

TEST REPORT

Report Reference No...... **HK2605290562-5ER**

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Date of issue..... 2026/07/07

Testing Laboratory Name Shenzhen HUAK Testing Technology Co., Ltd.

Address..... 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name..... EDA Technology Shanghai Co.,Ltd

Address..... Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Test specification :

Standard **ETSI EN 301 908-1 V15.2.1 (2023-01)/**

ETSI EN 301 908-13 V13.2.1 (2022-02)

TRF Originator Shenzhen HUAK Testing Technology Co., Ltd.

Master TRF Dated 2024-12

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Product Name : ED-IPC1220

Trade Mark EDATEC

Product Model ED-IPC1220

Series Model..... N/A

Modulation QPSK,16QAM

E-UTRA Frequency Band..... FDD1, FDD3, FDD7, FDD8, FDD20 and FDD28

Power Class..... Power Class 3

Ratings..... DC 12V From Adapter

Hardware Version..... ED-IOB-4X4Y2V2A Rev001

Software Version EG800KEUCCR07A02M02

Result..... **PASS**

TEST REPORT

Test Report No. :	HK2605290562-5ER	2026/07/07
		Date of issue

Product Name : ED-IPC1220

Product Model : ED-IPC1220

Series Model : N/A

Applicant : EDA Technology Shanghai Co.,Ltd

Address : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road,
Jiading District, Shanghai, PRC

Manufacturer : EDA Technology Shanghai Co.,Ltd

Address : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road,
Jiading District, Shanghai, PRC

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

**** Issued history****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	2026/07/07	Jason Zhou

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HUAKE TESTING

1. TEST STANDARDS

The tests were performed according to following standards:

ETSI EN 301 908-1 V15.2.1 (2023-01)

IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements

ETSI EN 301 908-13 V13.2.1 (2022-02)

IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

ETSI TS 136 521-1 V17.4.0 (2022-10)

LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing (3GPP TS 36.521-1 version 18.4.0 Release 18)

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	2026/05/29
Testing commenced on	:	2026/05/29
Testing concluded on	:	2026/07/07

2.2. Product Description

Product Name:	ED-IPC1220
Model/Type reference:	ED-IPC1220
List Model:	N/A
Model Diff:	N/A
Power supply:	DC 12V From Adapter
Auxiliary test equipment:	Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 2A, 24W Model: KSA-24W-120200D5
LTE	
Operation Band:	FDD1, FDD3, FDD7, FDD8, FDD20 and FDD28
Release Version:	R8
Operation frequency:	TX: Band 1:1920-1980MHz, Band 3:1710-1785MHz, Band 7:2500-2570MHz, Band 8:880-915MHz, Band 20:832-862MHz, Band 28:703-733MHz RX: Band 1:2110-2170MHz, Band 3:1805-1880MHz, Band 7:2620-2690MHz, Band 8:925-960MHz, Band 20:791-821MHz, Band 28:758-803MHz
Power Class:	Power Class 3
Modulation Type:	QPSK , 16QAM
Antenna type:	External Antenna
Antenna Gain:	Band 1: 1.53dBi, Band 3: 2.00dBi, Band 7: 3.00dBi, Band 8: 2.98dBi, Band 20: 2.64dBi, Band 28: 3.95dBi
Note: Antenna gain Refer to the antenna specifications. The cable loss data is obtained from the supplier. The test results in the report only apply to the tested sample.	
Note: EUT used the same communication chip, test data as same as report PD20230175RF01 for Hefei Panwin Technology Co., Ltd.	
This module has a conversion circuit. It converts 12V voltage to 5V voltage through a 12V adapter, and then converts 5V voltage to 3.8V voltage through an internal power management chip. The actual module's power supply voltage is 3.8V.	

Operation Frequency List:

Transmit Frequency Range			
Band 1		Band 3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18025	1922.5	19207	1710.70
⋮	⋮	⋮	⋮
18300	1950	19575	1747.50
⋮	⋮	⋮	⋮
18575	1977.5	19943	1784.30
Transmit Frequency Range			
Band 7		Band 8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.5	21475	882.5
⋮	⋮	⋮	⋮
21110	2535	21625	897.5
⋮	⋮	⋮	⋮
21425	2567.5	21775	912.5
Transmit Frequency Range			
Band 20		Band 28	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
24175	834.5	27235	705.5
⋮	⋮	⋮	⋮
24300	847	27360	718.0
⋮	⋮	⋮	⋮
24425	859.5	27485	730.5



2.3. Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 115V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 12V From Adapter

2.4. EUT operation mode

The EUT and test equipment were configured for testing according to ETSI EN 301 908-1 V15.2.1 (2023-01) and ETSI EN 301 908-13 V13.2.1 (2022-02), where refer to ETSI TS 136.521-1 for details.

2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

2.6. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- ☒ - Supplied by the manufacturer
- ☐ - Supplied by the lab

☐ Power Cable	Length (m) :	/
	Shield :	/
	Detachable :	/
☐ Multimeter	Manufacturer :	/
	Model No. :	/

☐ Adapter information

2.7. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature: 15 °C~35 °C
High Temperature: 75°C
Low Temperature: -35°C
Normal Voltage: DC 3.8V
High Voltage: DC 4.3V
Low Voltage: DC 3.4V
Relative Humidity: 15 %~75%
Air Pressure: 860 hPa ~ 1060 hPa

3.3. Test Description

3.3.1 Main Terms

Verdict	Verdict of each test cases.
Test Case	Test cases identification number and description in 3GPP test specification and ETSI specification.

3.3.2 Terms used in Condition column

NTC	Normal voltage, Normal Temperature
HV	High voltage, Normal Temperature
LV	Low voltage, Normal Temperature
HTHV	High voltage, High Temperature
LTHV	High voltage, Low Temperature
HTLV	Low voltage, High Temperature
LTLV	Low voltage, Low Temperature
Vib	Vibration

3.3.3 Terms used in Verdict column

Pass	This test cases has been tested, and EUT is conformant to the applied standards in the given frequency band.
Fail	This test cases has been tested, but EUT is not conformant to the applied standards in the given frequency band.
N/A	This test case is either not required/not applicable in the specified band or is not applicable according to the specific PICS/PIXIT for the EUT.
Inc	Test case result is ambiguous in the given frequency band.
Decl	Declaration is received from the client to demonstrate the conformity to the relevant specification in the given frequency band.
BR	This test cases is not tested in the given frequency band, but this testcases was tested with pass result for the initial model in the given frequency band.

3.3.4 Summary Test Results

Test Item	Test Requirement ESTIEN301908-1	Test Method ESTIEN301908-1	Test Conditions	Verdict	LTE FDD Band 1	LTE FDD Band 3	LTE FDD Band 7	Note:
Radiated emissions (UE)	Clause 4.2.2	clause 5.3.1	NT/NV	Pass	5M/10M/ 15M/20M	1.4M/3M/5M/ 10M/15M/20M	5M/10M/ 15M/20M	Reference to the section 4.2.1
Control and monitoring functions (UE)	Clause 4.2.4	clause 5.3.3	NT/NV	Pass	5M/10M/ 15M/20M	1.4M/3M/5M/ 10M/15M/20M	5M/10M/ 15M/20M	
Transmitter Maximum Output Power	Clause 4.2.2	clause 5.3.1	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	Reference to the section 4.1.1
			LT/LV	Pass				
			LT/HV	Pass				
			HT/LV	Pass				
			HT/HV	Pass				
Transmitter Spectrum Emission Mask	Clause 4.2.3	Clause 5.3.2	NT/NV	Pass	5M//10M/20M	1.4M/5M/ 10M/20M	5M//10M/20M	
Transmitter Spurious Emissions	Clause 4.2.4	Clause 5.3.3	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
Transmitter Minimum Output Power	Clause 4.2.5	Clause 5.3.4	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
			LT/LV	Pass				
			LT/HV	Pass				
			HT/LV	Pass				
			HT/HV	Pass				
Receiver Adjacent Channel Selectivity (ACS)	Clause 4.2.6	Clause5.3.5	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
Receiver Blocking Characteristics	Clause 4.2.7	Clause 5.3.6	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
Receiver Spurious Response	Clause 4.2.8	Clause5.3.7	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
Receiver Intermodulation Characteristics	Clause 4.2.9	Clause5.3.8	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
Receiver Spurious Emissions	Clause 4.2.10	Clause 5.3.9	NT/NV	Pass	5M/20M	1.4M/5M/20M	5M/20M	
transmitter Adjacent Channel Leakage Power Ratio	Clause 4.2.11	Clause 5.3.10	NT/NV	Pass	5M//10M/20M	1.4M/5M/ 10M/20M	5M//10M/20M	
			LT/LV	Pass				
			LT/HV	Pass				
			HT/LV	Pass				
			HT/HV	Pass				
Receiver Reference Sensitivity Level	Clause 4.2.12	Clause 5.3.11	NT/NV	Pass	5M//10M/20M	1.4M/5M/ 10M/20M	5M//10M/20M	

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Test Item	Test Requirement ESTIEN301908-1	Test Method ESTIEN301908-1	Test Conditions	Verdict	LTE FDD Band 8	LTE FDD Band 20	LTE FDD Band 28	Note:
Radiated emissions (UE)	Clause 4.2.2	clause 5.3.1	NT/NV	Pass	1.4M/3M/5M/ 10M/15M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	Reference to the section 4.2.1
Control and monitoring functions (UE)	Clause 4.2.4	clause 5.3.3	NT/NV	Pass	1.4M/3M/5M/ 10M/15M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Transmitter Maximum Output Power	Clause 4.2.2	clause 5.3.1	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	Reference to the section 4.1.1
			LT/LV	Pass				
			LT/HV	Pass				
			HT/LV	Pass				
			HT/HV	Pass				
Transmitter Spectrum Emission Mask	Clause 4.2.3	Clause 5.3.2	NT/NV	Pass	1.4M/5M/ 10M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Transmitter Spurious Emissions	Clause 4.2.4	Clause 5.3.3	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Transmitter Minimum Output Power	Clause 4.2.5	Clause 5.3.4	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
			LT/LV	Pass				
			LT/HV	Pass				
			HT/LV	Pass				
			HT/HV	Pass				
Receiver Adjacent Channel Selectivity (ACS)	Clause 4.2.6	Clause 5.3.5	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Receiver Blocking Characteristics	Clause 4.2.7	Clause 5.3.6	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Receiver Spurious Response	Clause 4.2.8	Clause 5.3.7	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Receiver Intermodulation Characteristics	Clause 4.2.9	Clause 5.3.8	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
Receiver Spurious Emissions	Clause 4.2.10	Clause 5.3.9	NT/NV	Pass	1.4M/5M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
transmitter Adjacent Channel Leakage Power Ratio	Clause 4.2.11	Clause 5.3.10	NT/NV	Pass	1.4M/5M/ 10M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	
			LT/LV	Pass				
			LT/HV	Pass				
			HT/LV	Pass				
			HT/HV	Pass				
Receiver Reference Sensitivity Level	Clause 4.2.12	Clause 5.3.11	NT/NV	Pass	1.4M/5M/ 10M/20M	5M/10M/ 15M/20M	3M/5M/10M/ 15M/20M	

Remark: 1. The measurement uncertainty is not included in the test result;

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3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen HUAKE Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAKE Testing Technology Co., Ltd. is reported:

ETSI EN 301 908-1	Test Description	Uncertainty
4.2.2	Radiated emissions (UE)	2.20 dB
4.2.4	Control and monitoring functions (UE)	5.50 dB
ETSI TS 136 521-1	Test Description	Uncertainty
5.2	Maximum Output Power	0.781 dB
5.2A	Maximum Output Power with HS-DPCCH	
5.2AA	Maximum Output Power with HS-DPCCH and E-DCH	
5.2B		
5.4.3	Minimum Output Power	0.781 dB
5.4.4	Out of Synchronisation Handling of Output Power DPCCH_Ec/lor $\hat{\sigma}$ lor/loc Overall Error (DPCCH_Ec/lor + $\hat{\sigma}$ lor/loc) $\hat{\sigma}$ loc	0.608 dB 0.671 dB 0.721 dB 0.671 dB
5.9	Spectrum Emission Mask	0.849dB
5.9A	Spectrum Emission Mask with HS-DPCCH	
5.9B	Spectrum Emission Mask with E-DCH	
5.10	Adjacent Channel Leakage Power Ratio	0.632dB
5.10A	Adjacent Channel Leakage Power Ratio (ACLR) with HS-DPCCH	
5.10B	Adjacent Channel Leakage Power Ratio (ACLR) with E-DCH	
5.11	Spurious Emissions	5.23dB
6.4	Adjacent Channel Selectivity (Rel-99 and Rel-4)	0.922dB
6.4A	Adjacent Channel Selectivity (Rel-5 and later releases)	
6.5	Blocking Characteristics	1.166dB
6.6	Spurious Response	1.166dB
6.7	Intermodulation Characteristics	0.721dB
6.8	Spurious Emissions	1.081dB

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.



3.5. Equipments Used during the Test

Details for JSTS1120-1

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	Agilent	N9020A	HKE-025	2026.02.06	2027.02.05
2	Wireless Communication Test Set	R&S	CMU200	HKE-026	2026.02.06	2027.02.05
3	Wireless Communication Test Set	R&S	CMW500	HKE-027	2026.02.06	2027.02.05
5	Signal generator	Agilent	N5182A	HKE-029	2026.02.04	2027.02.03
6	Signal generator	KEYSIGHT	N5182B	HKE-124	2026.02.04	2027.02.03

Details for Control and Monitoring Functions

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	Agilent	N9020A	HKE-025	2026.02.06	2027.02.05

Details for Radiated emissions test equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	2026.02.06	2028.02.05
2	Horn antenna	Schwarzbeck	9120D	HKE-013	2026.02.06	2028.02.05
3	Receiver	R&S	ESR-7	HKE-010	2026.02.06	2027.02.05
5	Preamplifier	Schwarzbeck	EMC05184 5SE	HKE-006	2026.02.06	2027.02.05
6	Preamplifier	Agilent	83051A	HKE-016	2026.02.04	2027.02.03
7	High pass filter unit	Tonscend	JS0806-F	HKE-055	2026.02.06	2027.02.05
8	Spectrum analyzer	Agilent	N9020A	HKE-025	2026.02.06	2027.02.05
9	EMI TEST Software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A
10	Wireless Communication Test Set	R&S	CMW500	HKE-027	2026.02.06	2027.02.05
11	RF test software	Tonscend	V3.6.21	HKE-183	/	/
12	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

4. TEST CONDITIONS AND RESULTS

4.1 ETSI EN301908-13 Requirement

4.1.1 Transmitter Maximum Output Power

LIMIT

ETSI EN 301 908-13 Sub-clause 4.2.2.1.2

E-UTRA Band	Power Class 3 (dBm)	Tolerance (dB)
1	23	$\pm 2,7$
3	23	$\pm 2,7$ (see note)
7	23	$\pm 2,7$ (see note)
8	23	$\pm 2,7$ (see note)
20	23	$\pm 2,7$ (see note)
33	23	$\pm 2,7$
34	23	$\pm 2,7$
38	23	$\pm 2,7$
40	23	$\pm 2,7$
42	23	$\pm 3,0/-4,0$
43	23	$\pm 3,0/-4,0$
NOTE: For transmission bandwidths (TS 136 521-1 [1], clause 5) confined within F_{UL_low} and $F_{UL_low} + 4$ MHz or $F_{UL_high} - 4$ MHz and F_{UL_high} , the maximum output power requirement is relaxed by reducing the lower tolerance limit by 1,5 dB (tolerance = $\pm 2,7/4,2$).		

TEST PROCEDURE

ETSI EN 301 908-13 Sub-clause 5.3.1.1.1.2

1. Set and send continuously Up power control commands to the UE.
2. SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to table 6.2.2.1.4.1-1 of TS 136 521-1 [1]. Since the UE has no payload and no loopback data to send the UE sends uplink MAC padding bits on the UL RMC.
3. Send continuously uplink power control "up" commands in every uplink scheduling information to the UE; allow at least 200 ms for the UE to reach PUMAX level.
4. Measure the mean power of the UE in a bandwidth of at least $(1+x)$ times the channel bandwidth of the radio access mode. The period of measurement shall be at least one (timeslot/frame/TTI).
5. Repeat for applicable test frequencies, channel bandwidths, operating band combinations and environmental conditions.

TEST RESULTS

See Report PD20230175RF01 for test data.

4.1.2 Transmitter spectrum emission mask

LIMIT

The power of any UE emission shall fulfil requirements in tables 4.2.3.1.2-1 and 4.2.3.1.2-2.

Table 4.2.3.1.2-1: General E-UTRA spectrum emission mask, E UTRA bands ≤ 3 GHz

Δf_{OoB} (MHz)	1,4 MHz	3,0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Measurement bandwidth
±0 to 1	-8,5	-11,5	-13,5	-16,5	-18,5	-19,5	30 kHz
±1 to 2,5	-8,5	-8,5	-8,5	-8,5	-8,5	-8,5	1 MHz
±2,5 to 2,8	-23,5	-8,5	-8,5	-8,5	-8,5	-8,5	1 MHz
±2,8 to 5		-8,5	-8,5	-8,5	-8,5	-8,5	1 MHz
±5 to 6		-23,5	-11,5	-11,5	-11,5	-11,5	1 MHz
±6 to 10			-23,5	-11,5	-11,5	-11,5	1 MHz
±10 to 15				-23,5	-11,5	-11,5	1 MHz
±15 to 20					-23,5	-11,5	1 MHz
±20 to 25						-23,5	1 MHz

NOTE 1: The first and last measurement position with a 30 kHz filter is at Δf_{OoB} equals to 0,015 MHz and 0,985 MHz.

NOTE 2: The first and last measurement position with a 1 MHz filter for 1 MHz - 2,5 MHz offset range is at Δf_{OoB} equals to 1,5 MHz and 2,0 MHz. Similarly for other Δf_{OoB} ranges.

NOTE 3: The measurements are to be performed above the upper edge of the channel and below the lower edge of the channel.

NOTE 4: For the 2,5 MHz - 2,8 MHz offset range with 1,4 MHz channel bandwidth, the measurement position is at Δf_{OoB} equals to 3 MHz.

Table 4.2.3.1.2-2: General E-UTRA spectrum emission mask, 3 GHz < E-UTRA bands ≤ 4,2 GHz

Δf_{OoB} (MHz)	Spectrum emission limit (dBm)/ Channel bandwidth						Measurement bandwidth
	1,4 MHz	3,0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
0 to 1	-8,2	-11,2	-13,2	-16,2	-18,2	-19,2	30 kHz
1 to 2,5	-8,2	-8,2	-8,2	-8,2	-8,2	-8,2	1 MHz
2,5 to 2,8	-23,2						1 MHz
2,8 to 5							1 MHz
5 to 6		-23,2	-11,2	-11,2	-11,2	-11,2	1 MHz
6 to 10			-23,2	-23,2	-23,2	-23,2	1 MHz
10 to 15							1 MHz
15 to 20							1 MHz
20 to 25						-23,2	1 MHz

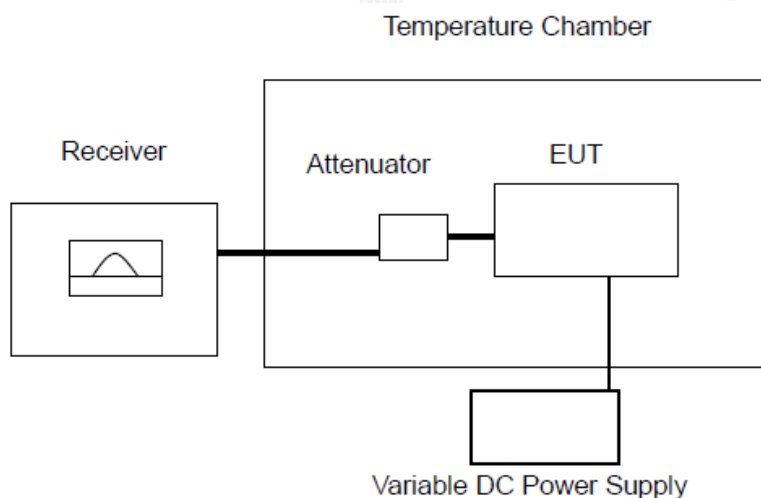
NOTE 1: The first and last measurement position with a 30 kHz filter is at Δf_{OoB} equals to 0,015 MHz and 0,985 MHz.

NOTE 2: At the boundary of spectrum emission limit, the first and last measurement position with a 1 MHz filter is the inside of +0,5 MHz and -0,5 MHz, respectively.

NOTE 3: The measurements are to be performed above the upper edge of the channel and below the lower edge of the channel.

NOTE 4: For the 2,5-2,8 MHz offset range with 1,4 MHz channel bandwidth, the measurement position is at Δf_{OoB} equals to 3 MHz.

Setup



TEST PROCEDURE

1. SS sends uplink scheduling information via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 6.6.2.1.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
2. Send continuously uplink power control "up" commands in the uplink scheduling information to the UE until the UE transmits at PUMAX level.
3. Measure the power of the transmitted signal with a measurement filter of bandwidths according to tables 4.2.3.1.2-1 or 4.2.3.1.2-2, as applicable. The center frequency of the filter shall be stepped in continuous steps according to the same table. The measured power shall be recorded for each step. The measurement period shall capture the active TSs.
4. Repeat for applicable test frequencies, channel bandwidths, operating band combinations and environmental conditions.

TEST RESULTS

See Report PD20230175RF01 for test data.



4.1.3 Radiated emissions (UE)

LIMIT

ETSI EN 301 908-1 Sub-clause 4.2.2.2

This test assesses the ability of radio communications equipment and ancillary equipment to limit unwanted emissions from the enclosure port.

This test is applicable to radio communications equipment and ancillary equipment.

This test shall be performed on the radio communications equipment and/or a representative configuration of the ancillary equipment.

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out-of-band emissions and spurious emissions are based on ITU-R Recommendations SM.329-10 [3] and SM.1539-1 [4].

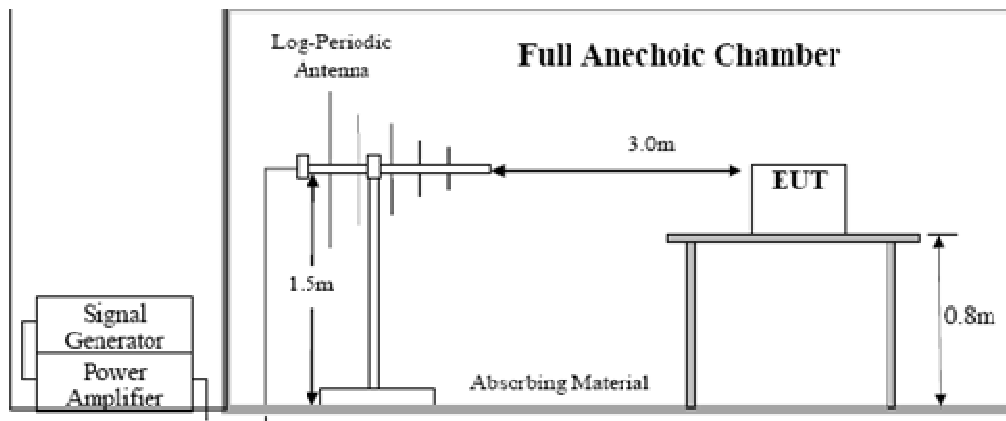
The requirements shown in table 4.2.2.2-1 are only applicable for frequencies in the spurious domain.

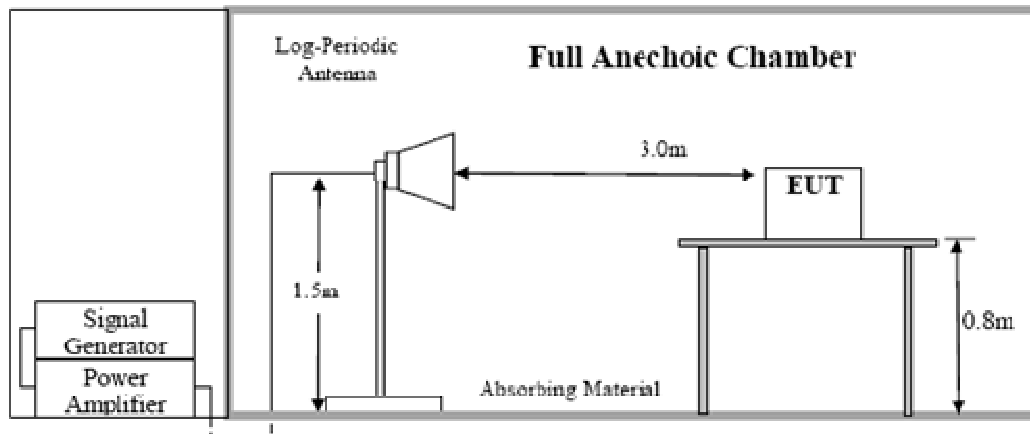
Table 4.2.2.2-1: Radiated spurious emissions requirements (UE)

Frequency	Minimum requirement (e.r.p.)/ reference bandwidth idle mode	Minimum requirement (e.r.p.)/ reference bandwidth traffic mode	Applicability
$30 \text{ MHz} \leq f < 1\,000 \text{ MHz}$	-57 dBm/100 kHz	-36 dBm/100 kHz	All
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	-47 dBm/1 MHz	-30 dBm/1 MHz	All
$f_c - 2.5 \times 5 \text{ MHz} < f < f_c + 2.5 \times 5 \text{ MHz}$		Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3
$f_c - 2.5 \times \text{BWChannel MHz} < f < f_c + 2.5 \times \text{BWChannel MHz}$		Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX, UMB
$f_c - 2.5 \times 10 \text{ MHz} < f < f_{c1} + 2.5 \times 10 \text{ MHz}$		Not defined	UTRA TDD, 7,68 Mcps option
$f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$		Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1
$f_c - 500 \text{ kHz} < f < f_c + 500 \text{ kHz}$		Not defined	UWC 136, 200 kHz option
$f_c - 250 \text{ kHz} < f < f_c + 250 \text{ kHz}$		Not defined	UWC 136, 30 kHz option

NOTE: f_c is the UE transmit centre frequency.

TEST CONFIGURATION





TEST PROCEDURE

Please refer to ETSI EN 301 908-1

Step 1:

The measurement is carried out in the fully anechoic chamber. EUT was placed on a 1.50 meter high non-conductive table at a 3 meter test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna is 1.50 m and varies in certain range to find the maximum power value. Connect the EUT to the BTS simulator via the air interface. The measurement is carried out using a spectrum analyzer or receiver. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. A filter is necessary in the band near to the carrier frequency. A filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

Calculation procedure:

The data of cable loss, antenna gain and air loss has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss, antenna gain and air loss. The basic equation with a sample calculation is as followed:

$$P = P_R + L_C + L_A - G$$

Where

P: Power of the Radiated Spurious Emissions (dBm)

P_R : reading of the receiver (dBm)

L_C : Cable Lose and power amilifer gain and filter cable loss (dB)

L_A : Air loss (dB)

G: Antenna Gain (dBi)

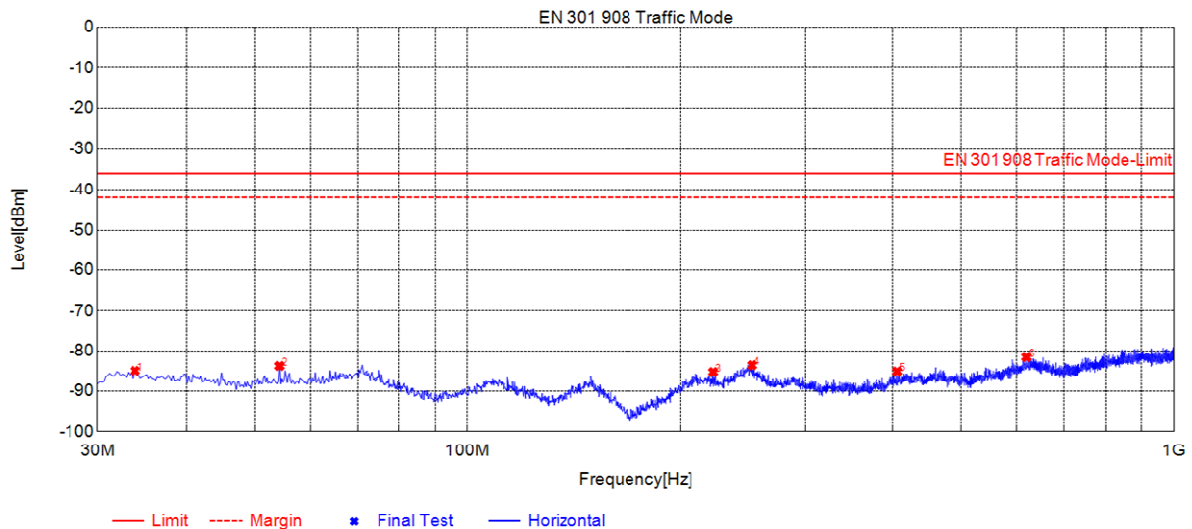
Assumed the reading of the receiver is -60dBm. A cable lose of 10dB, an air lose of 30dB and an antenna gain of 11dBi are added.

$$P = P_R + L_C + L_A - G = -60 + 10 + 30 - 11 = -31 \text{ dBm}$$

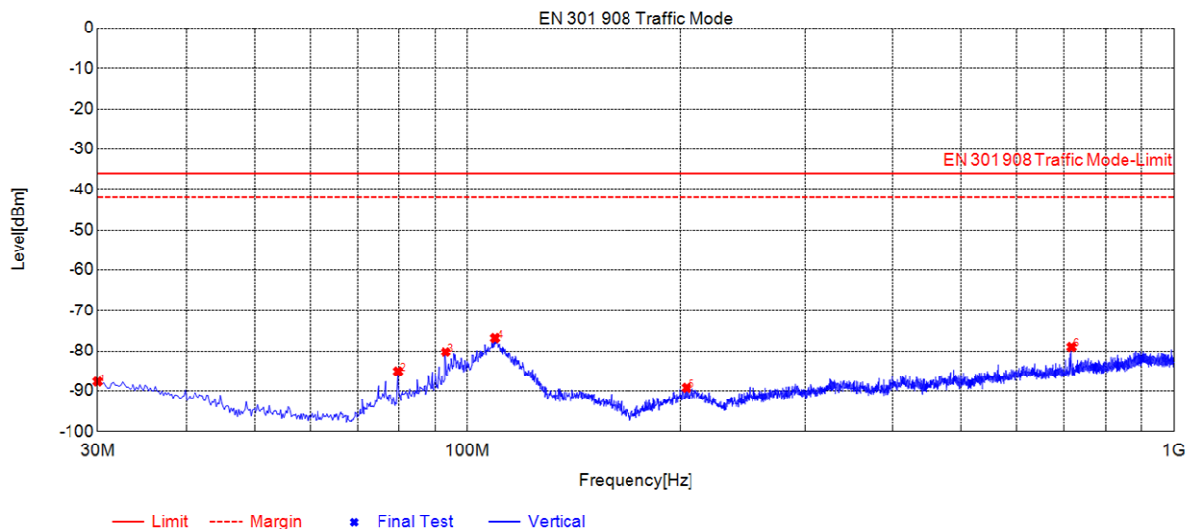
TEST RESULTS

This test was carried out in all the test modes LTE Band 1(5M, 10M, 20M), Band 3(1.4MHz, 5MHz, 20MHz), Band 7(1.4MHz, 5MHz, 20MHz), Band 8(1.4MHz, 3MHz, 5MHz, 10MHz, 20MHz), Band 20(5MHz, 10MHz, 20MHz) and Band 28(3MHz, 5MHz, 20MHz) and recorded the worst case at band 1(5MHz), Band 3(5MHz), band 7(5MHz), band 8(5MHz), band 20(5MHz) and band 28(5MHz) The EUT has met the requirements of 3GPP2 C.S0011-A's requirement.

LTE Band 1(5MHz) Below 1GHz:

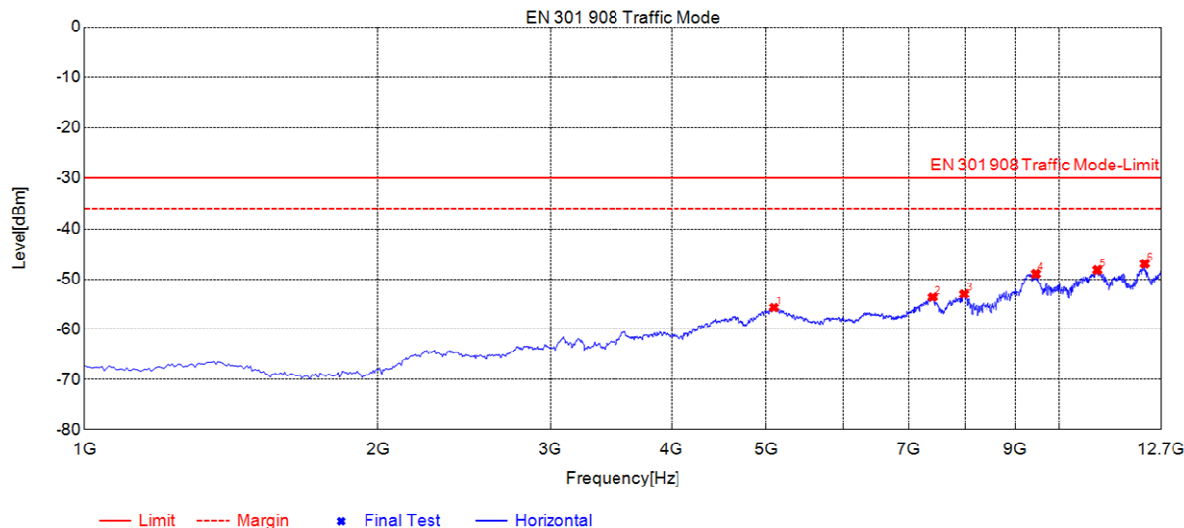


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	33.8808	-89.87	-84.88	-36.00	48.88	4.99	Horizontal
2	54.2549	-86.77	-83.70	-36.00	47.70	3.07	Horizontal
3	222.874	-88.17	-85.17	-36.00	49.17	3.00	Horizontal
4	252.950	-89.21	-83.53	-36.00	47.53	5.68	Horizontal
5	406.047	-88.52	-85.05	-36.00	49.05	3.47	Horizontal
6	618.519	-89.09	-81.53	-36.00	45.53	7.56	Horizontal

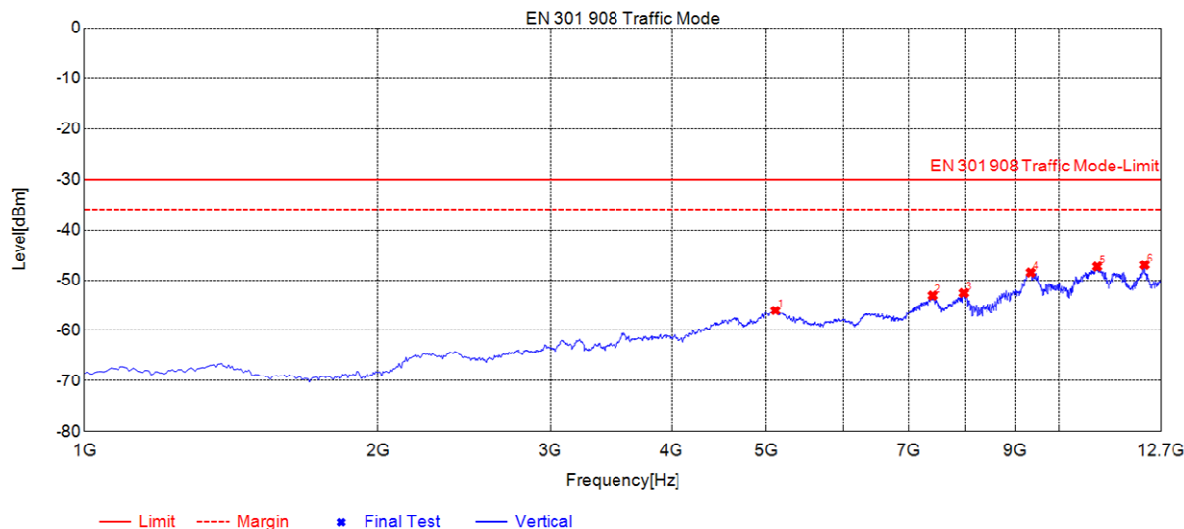


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30	-90.88	-87.76	-36.00	51.76	3.12	Vertical
2	79.868	-82.61	-85.03	-36.00	49.03	-2.42	Vertical
3	93.2567	-83.15	-80.30	-36.00	44.30	2.85	Vertical
4	109.361	-89.15	-76.92	-36.00	40.92	12.23	Vertical
5	204.246	-88.70	-89.28	-36.00	53.28	-0.58	Vertical
6	717.091	-85.33	-79.02	-36.00	43.02	6.31	Vertical

**LTE Band 1(5MHz)
Above 1GHz:**

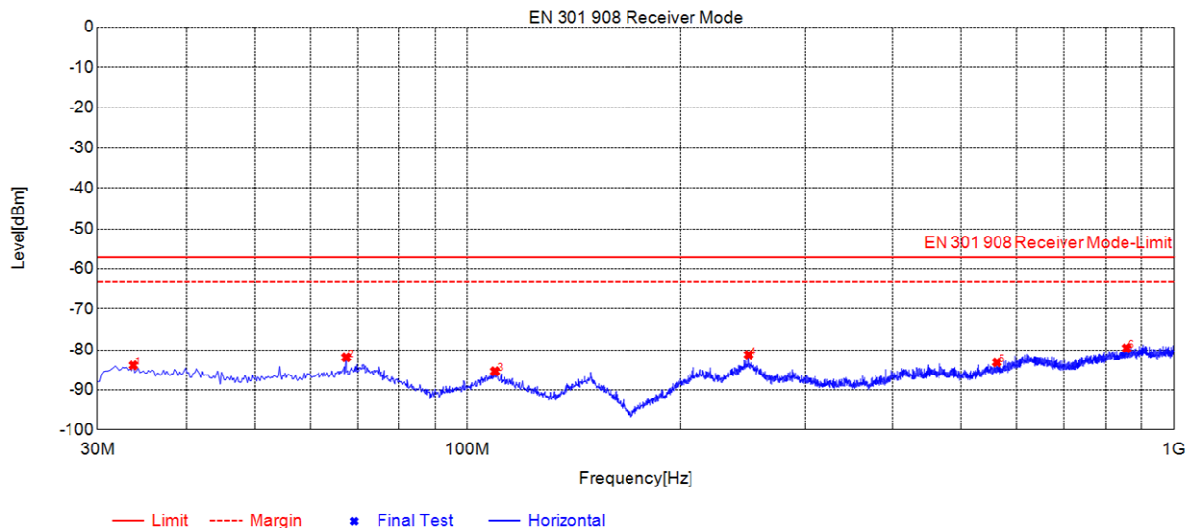


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.64	-55.72	-30.00	25.72	9.92	Horizontal
2	7414.80	-65.47	-53.56	-30.00	23.56	11.91	Horizontal
3	7976.68	-65.91	-52.95	-30.00	22.95	12.96	Horizontal
4	9445.77	-65.77	-48.96	-30.00	18.96	16.81	Horizontal
5	10920.7	-67.31	-48.21	-30.00	18.21	19.10	Horizontal
6	12220.0	-68.51	-47.00	-30.00	17.00	21.51	Horizontal

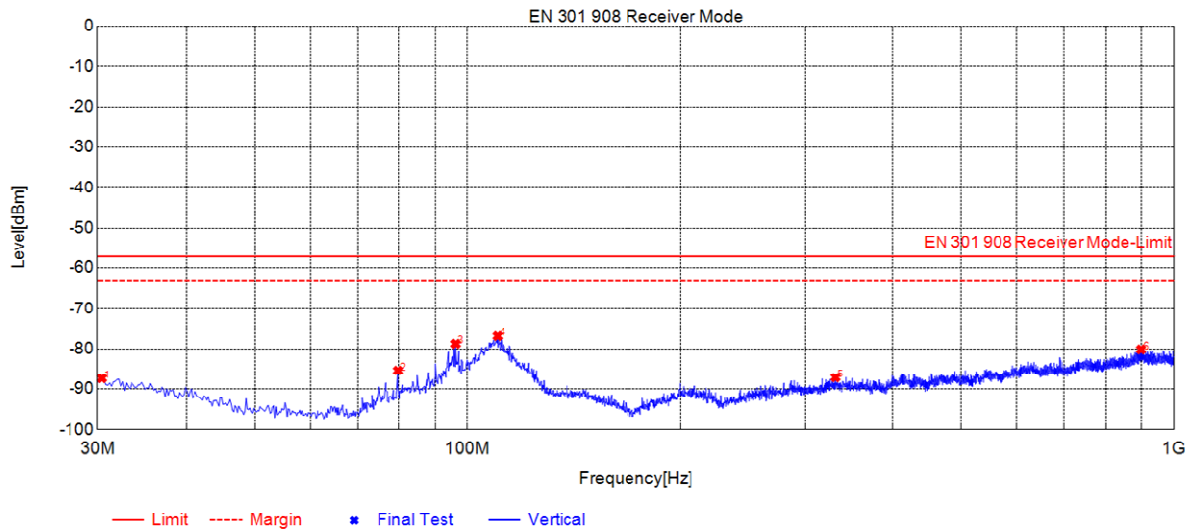


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5108.75	-65.78	-56.01	-30.00	26.01	9.77	Vertical
2	7414.80	-65.29	-53.00	-30.00	23.00	12.29	Vertical
3	7970.83	-65.78	-52.51	-30.00	22.51	13.27	Vertical
4	9334.56	-65.55	-48.52	-30.00	18.52	17.03	Vertical
5	10914.8	-67.27	-47.35	-30.00	17.35	19.92	Vertical
6	12214.2	-68.43	-47.03	-30.00	17.03	21.40	Vertical

**LTE Band 1(5MHz)
Below 1GHz:**

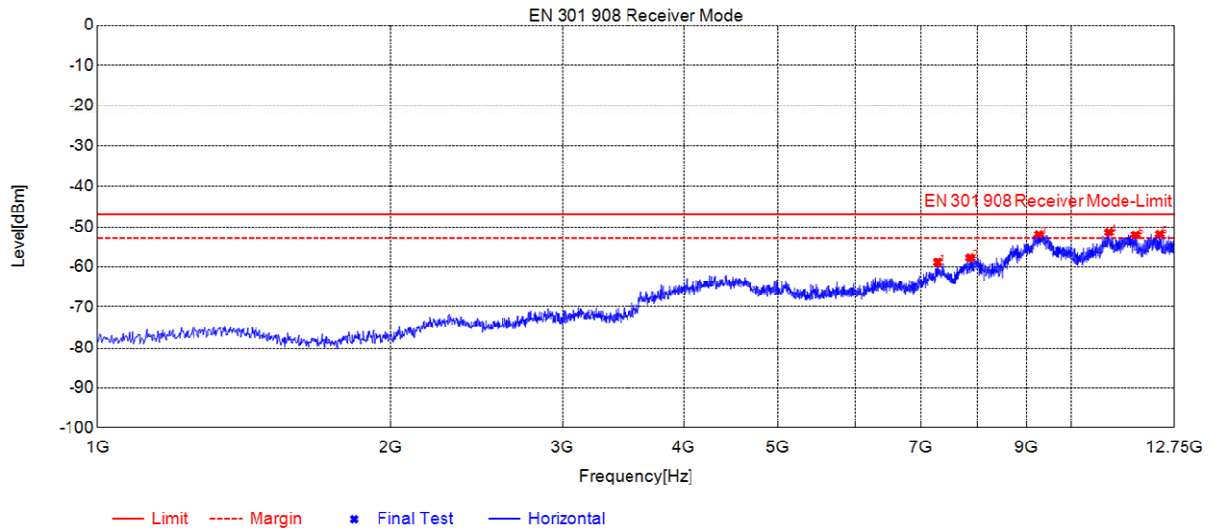


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	33.6867	-89.00	-83.99	-57.00	26.99	5.01	Horizontal
2	67.4495	-86.40	-81.99	-57.00	24.99	4.41	Horizontal
3	109.361	-88.63	-85.47	-57.00	28.47	3.16	Horizontal
4	250.04	-87.46	-81.27	-57.00	24.27	6.19	Horizontal
5	561.278	-88.46	-83.23	-57.00	26.23	5.23	Horizontal
6	856.993	-89.05	-79.59	-57.00	22.59	9.46	Horizontal

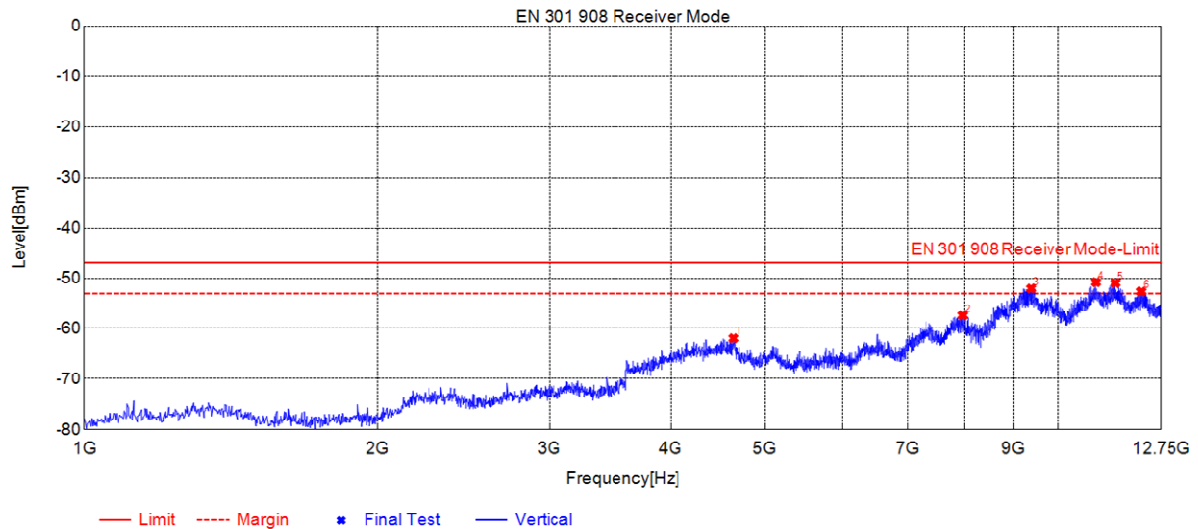


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.3881	-90.37	-87.39	-57.00	30.39	2.98	Vertical
2	79.868	-82.93	-85.35	-57.00	28.35	-2.42	Vertical
3	96.3613	-83.47	-78.77	-57.00	21.77	4.70	Vertical
4	110.332	-89.25	-76.86	-57.00	19.86	12.39	Vertical
5	331.924	-88.92	-87.18	-57.00	30.18	1.74	Vertical
6	898.905	-89.46	-80.15	-57.00	23.15	9.31	Vertical

**LTE Band 1(5MHz)
Above 1GHz:**

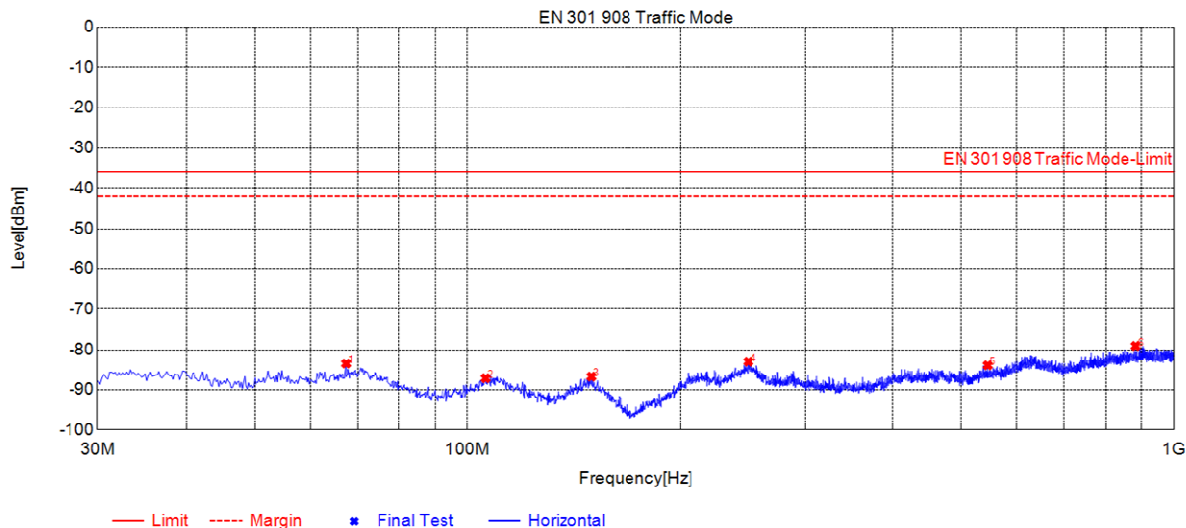


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	7289.85	-67.67	-58.89	-47.00	11.89	8.78	Horizontal
2	7872.77	-66.90	-57.76	-47.00	10.76	9.14	Horizontal
3	9259.55	-65.44	-51.91	-47.00	4.91	13.53	Horizontal
4	10928.3	-67.27	-51.40	-47.00	4.40	15.87	Horizontal
5	11649.9	-68.53	-52.06	-47.00	5.06	16.47	Horizontal
6	12324.5	-68.62	-51.84	-47.00	4.84	16.78	Horizontal

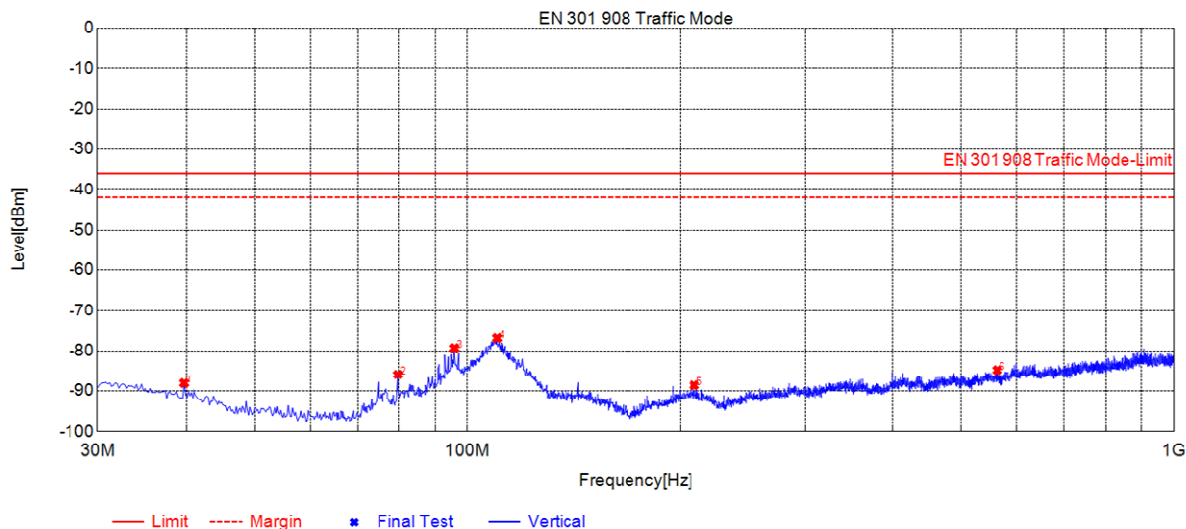


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4636.17	-65.95	-61.93	-47.00	14.93	4.02	Vertical
2	7976.19	-68.08	-57.41	-47.00	10.41	10.67	Vertical
3	9377.07	-66.12	-52.02	-47.00	5.02	14.10	Vertical
4	10923.6	-67.47	-50.79	-47.00	3.79	16.68	Vertical
5	11450.1	-68.13	-50.94	-47.00	3.94	17.19	Vertical
6	12169.4	-69.56	-52.61	-47.00	5.61	16.95	Vertical

**LTE Band 3(5MHz)
Below 1GHz:**

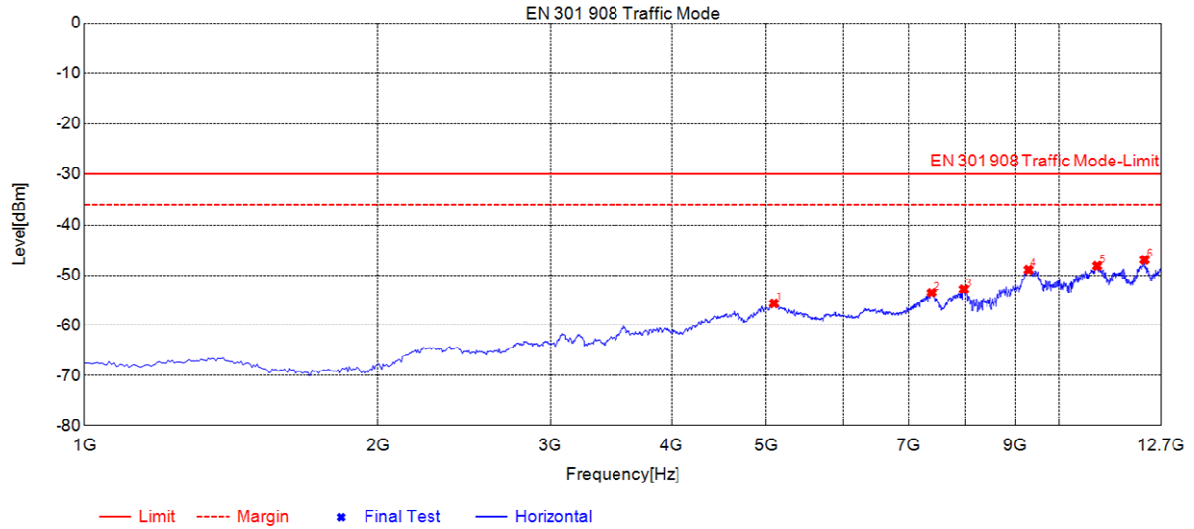


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	67.4495	-87.94	-83.53	-36.00	47.53	4.41	Horizontal
2	106.063	-89.61	-87.18	-36.00	51.18	2.43	Horizontal
3	149.916	-89.27	-86.78	-36.00	50.78	2.49	Horizontal
4	249.846	-89.22	-83.05	-36.00	47.05	6.17	Horizontal
5	544.396	-89.05	-83.97	-36.00	47.97	5.08	Horizontal
6	882.994	-88.78	-79.06	-36.00	43.06	9.72	Horizontal

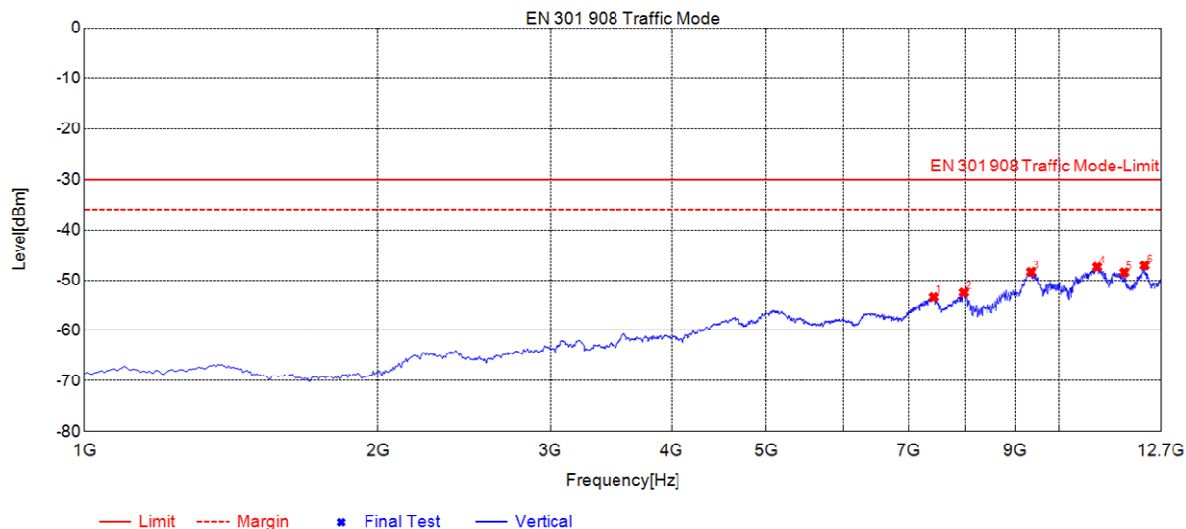


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.7019	-87.57	-88.09	-36.00	52.09	-0.52	Vertical
2	79.868	-83.47	-85.89	-36.00	49.89	-2.42	Vertical
3	95.9732	-83.83	-79.36	-36.00	43.36	4.47	Vertical
4	110.138	-89.43	-76.92	-36.00	40.92	12.51	Vertical
5	209.485	-88.46	-88.65	-36.00	52.65	-0.19	Vertical
6	562.248	-89.07	-84.75	-36.00	48.75	4.32	Vertical

**LTE Band 3(5MHz)
Above 1GHz:**

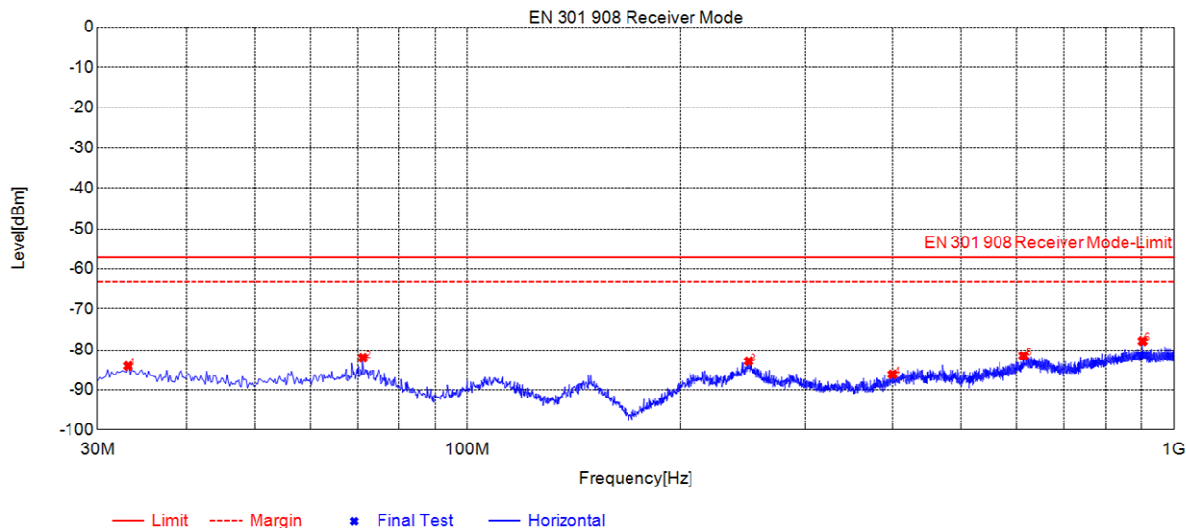


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.62	-55.70	-30.00	25.70	9.92	Horizontal
2	7397.24	-65.46	-53.52	-30.00	23.52	11.94	Horizontal
3	7970.83	-65.65	-52.79	-30.00	22.79	12.86	Horizontal
4	9287.74	-65.51	-48.95	-30.00	18.95	16.56	Horizontal
5	10914.8	-67.32	-48.19	-30.00	18.19	19.13	Horizontal
6	12214.2	-68.60	-47.01	-30.00	17.01	21.59	Horizontal

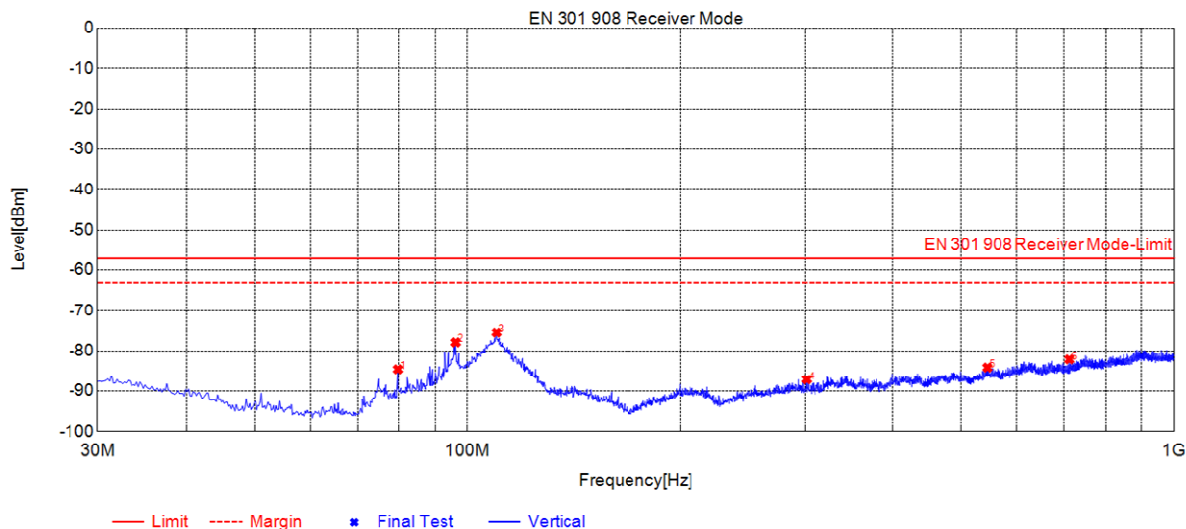


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	7432.36	-65.61	-53.29	-30.00	23.29	12.32	Vertical
2	7970.83	-65.68	-52.41	-30.00	22.41	13.27	Vertical
3	9340.42	-65.44	-48.41	-30.00	18.41	17.03	Vertical
4	10914.8	-67.34	-47.42	-30.00	17.42	19.92	Vertical
5	11652.3	-68.69	-48.50	-30.00	18.50	20.19	Vertical
6	12214.2	-68.55	-47.15	-30.00	17.15	21.40	Vertical

**LTE Band 3(5MHz)
Below 1GHz:**

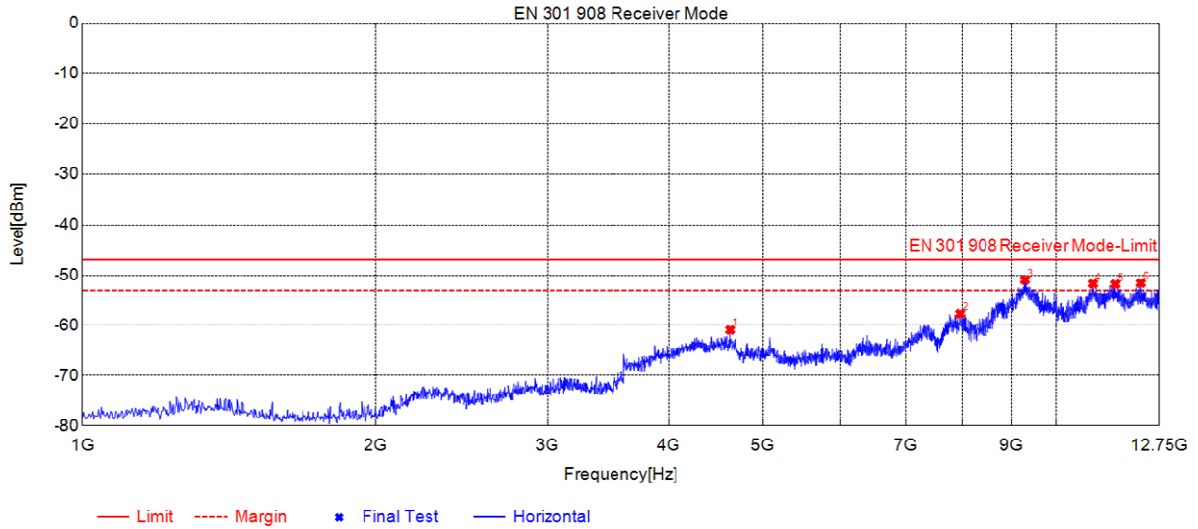


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	33.1046	-89.24	-84.14	-57.00	27.14	5.10	Horizontal
2	71.1362	-86.42	-82.08	-57.00	25.08	4.34	Horizontal
3	250.04	-89.14	-82.95	-57.00	25.95	6.19	Horizontal
4	400.032	-89.36	-86.24	-57.00	29.24	3.12	Horizontal
5	612.698	-89.03	-81.53	-57.00	24.53	7.50	Horizontal
6	903.562	-87.99	-77.91	-57.00	20.91	10.08	Horizontal

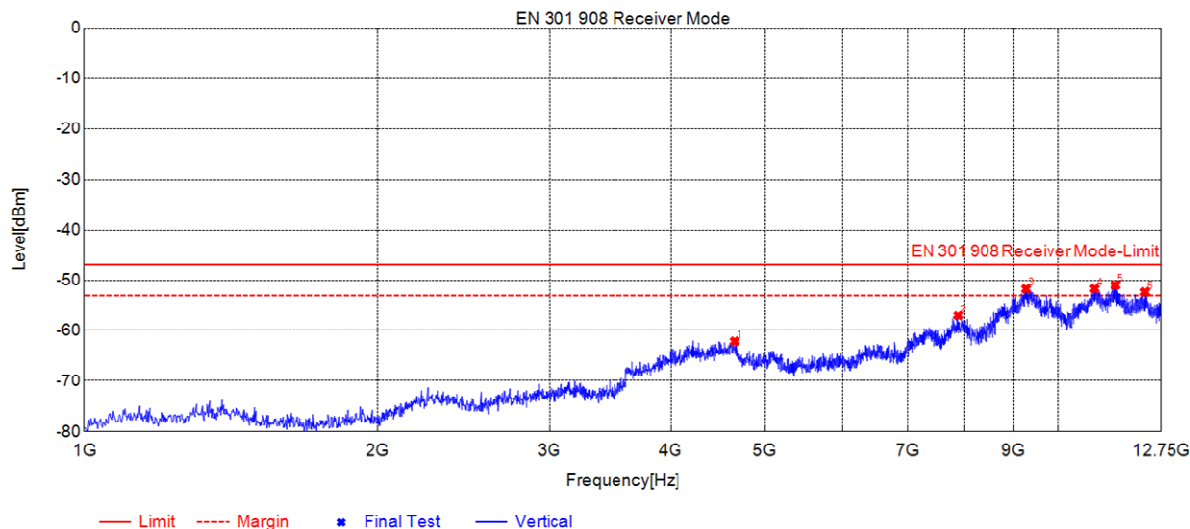


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	79.868	-82.11	-84.53	-57.00	27.53	-2.42	Vertical
2	96.3613	-82.65	-77.95	-57.00	20.95	4.70	Vertical
3	109.944	-88.10	-75.53	-57.00	18.53	12.57	Vertical
4	301.848	-87.63	-87.16	-57.00	30.16	0.47	Vertical
5	544.008	-88.50	-84.10	-57.00	27.10	4.40	Vertical
6	712.046	-88.25	-82.10	-57.00	25.10	6.15	Vertical

**LTE Band 3(5MHz)
Above 1GHz:**

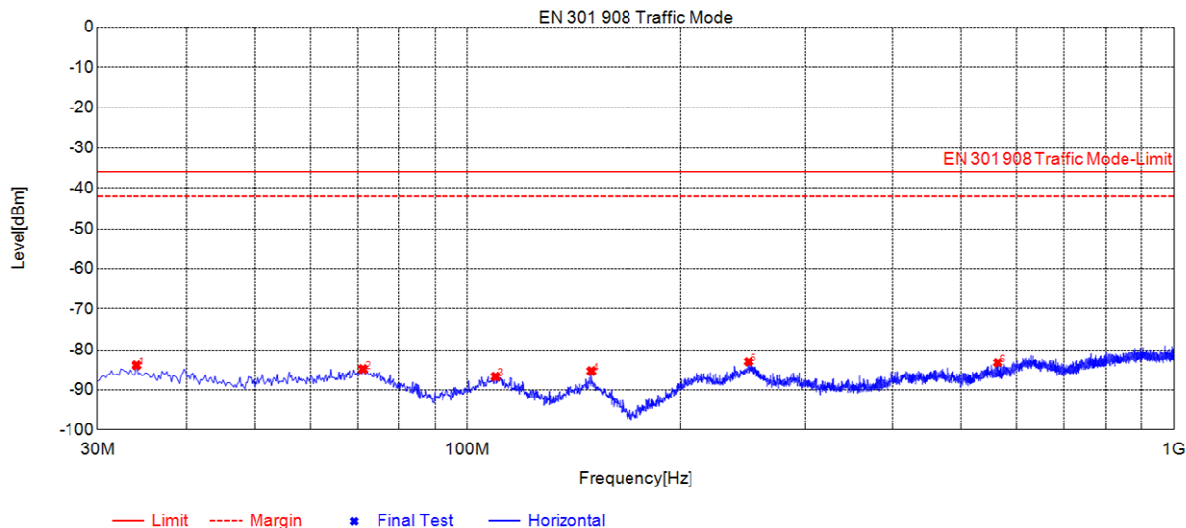


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4622.07	-64.80	-60.89	-47.00	13.89	3.91	Horizontal
2	7966.79	-67.88	-57.75	-47.00	10.75	10.13	Horizontal
3	9283.05	-64.59	-50.93	-47.00	3.93	13.66	Horizontal
4	10902.5	-67.65	-51.66	-47.00	4.66	15.99	Horizontal
5	11508.9	-68.03	-51.78	-47.00	4.78	16.25	Horizontal
6	12214.0	-68.67	-51.55	-47.00	4.55	17.12	Horizontal

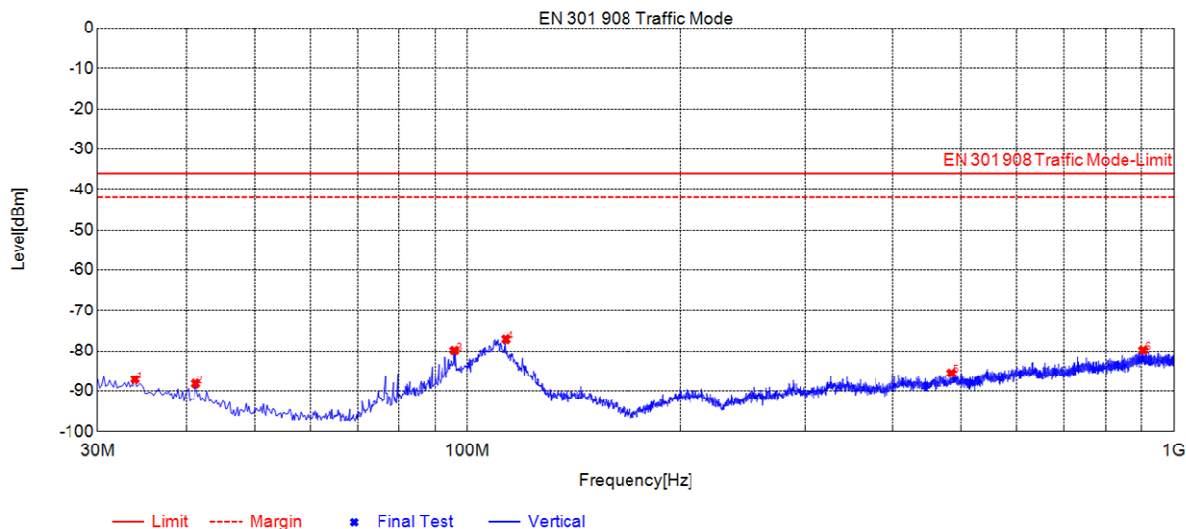


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4650.28	-66.20	-62.14	-47.00	15.14	4.06	Vertical
2	7891.57	-66.64	-57.03	-47.00	10.03	9.61	Vertical
3	9264.25	-65.43	-51.70	-47.00	4.70	13.73	Vertical
4	10888.4	-68.30	-51.65	-47.00	4.65	16.65	Vertical
5	11450.1	-68.17	-50.98	-47.00	3.98	17.19	Vertical
6	12270.5	-69.09	-52.31	-47.00	5.31	16.78	Vertical

**LTE Band 7(5MHz)
Below 1GHz:**

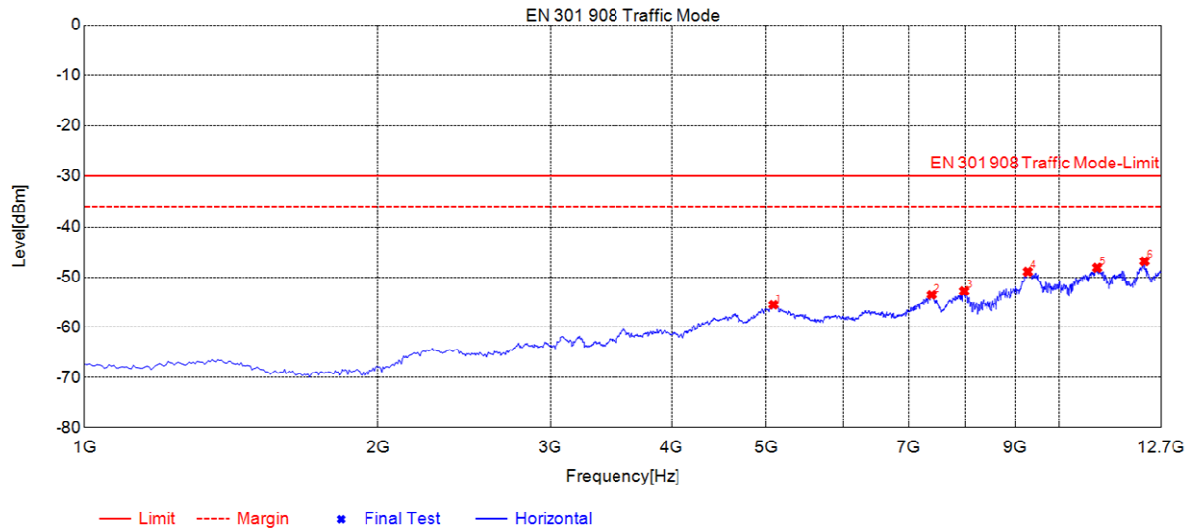


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.0748	-88.95	-83.99	-36.00	47.99	4.96	Horizontal
2	71.1362	-89.26	-84.92	-36.00	48.92	4.34	Horizontal
3	109.555	-89.99	-86.79	-36.00	50.79	3.20	Horizontal
4	149.916	-87.91	-85.42	-36.00	49.42	2.49	Horizontal
5	250.04	-89.26	-83.07	-36.00	47.07	6.19	Horizontal
6	563.024	-88.56	-83.30	-36.00	47.30	5.26	Horizontal

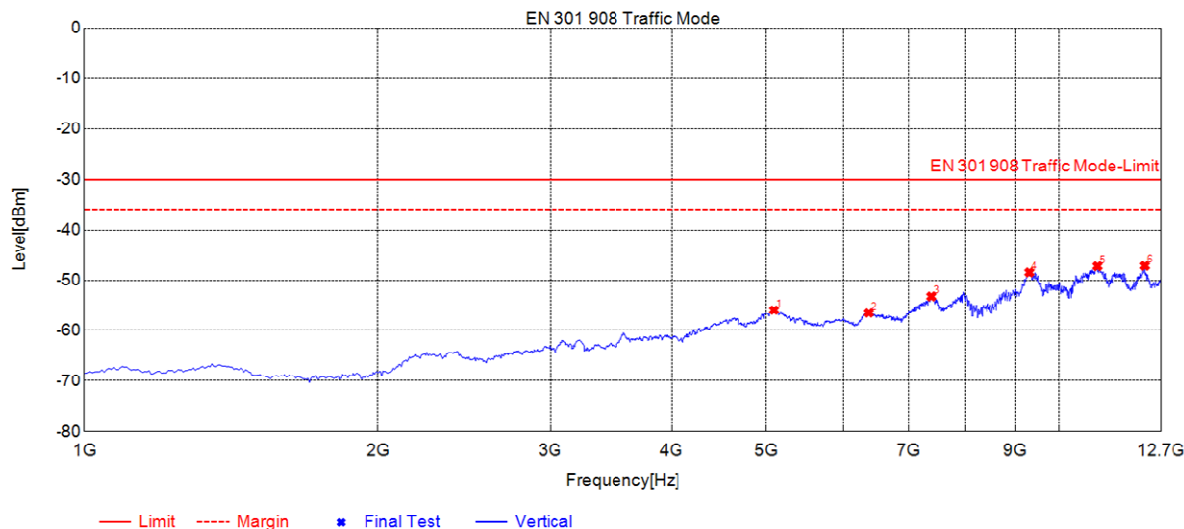


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	33.8808	-88.82	-87.15	-36.00	51.15	1.67	Vertical
2	41.2543	-87.16	-88.25	-36.00	52.25	-1.09	Vertical
3	95.9732	-84.41	-79.94	-36.00	43.94	4.47	Vertical
4	113.436	-87.61	-77.19	-36.00	41.19	10.42	Vertical
5	484.632	-89.02	-85.52	-36.00	49.52	3.50	Vertical
6	905.115	-89.24	-79.88	-36.00	43.88	9.36	Vertical

**LTE Band 7(5MHz)
Above 1GHz:**

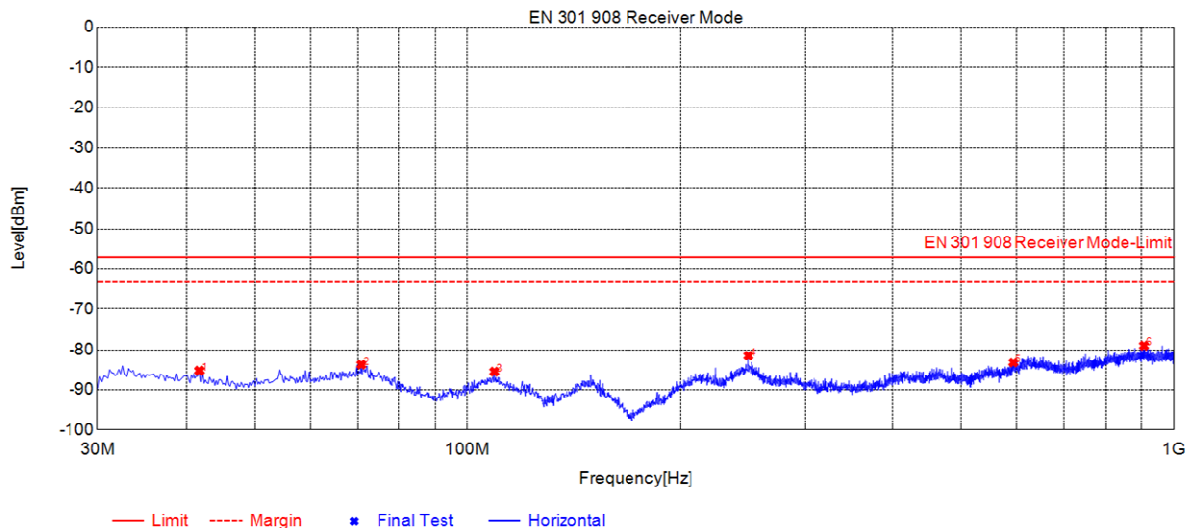


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5085.34	-65.41	-55.56	-30.00	25.56	9.85	Horizontal
2	7397.24	-65.45	-53.51	-30.00	23.51	11.94	Horizontal
3	7976.68	-65.71	-52.75	-30.00	22.75	12.96	Horizontal
4	9270.18	-65.42	-48.94	-30.00	18.94	16.48	Horizontal
5	10914.8	-67.30	-48.17	-30.00	18.17	19.13	Horizontal
6	12214.2	-68.49	-46.90	-30.00	16.90	21.59	Horizontal

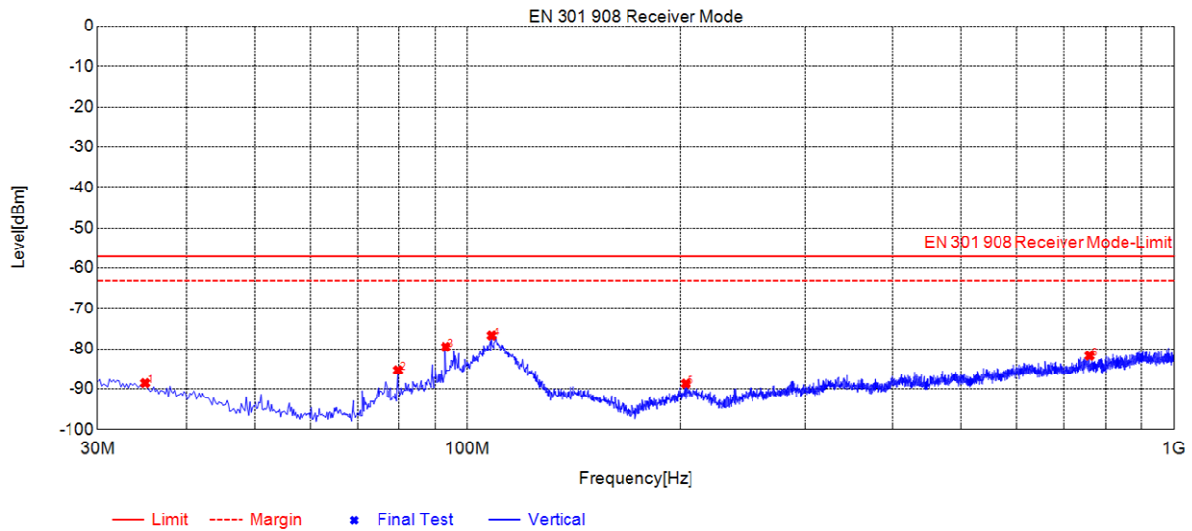


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.66	-55.93	-30.00	25.93	9.73	Vertical
2	6372.98	-64.90	-56.50	-30.00	26.50	8.40	Vertical
3	7391.39	-65.39	-53.19	-30.00	23.19	12.20	Vertical
4	9305.30	-65.51	-48.48	-30.00	18.48	17.03	Vertical
5	10920.7	-67.15	-47.26	-30.00	17.26	19.89	Vertical
6	12220.0	-68.51	-47.19	-30.00	17.19	21.32	Vertical

**LTE Band 7(5MHz)
Below 1GHz:**

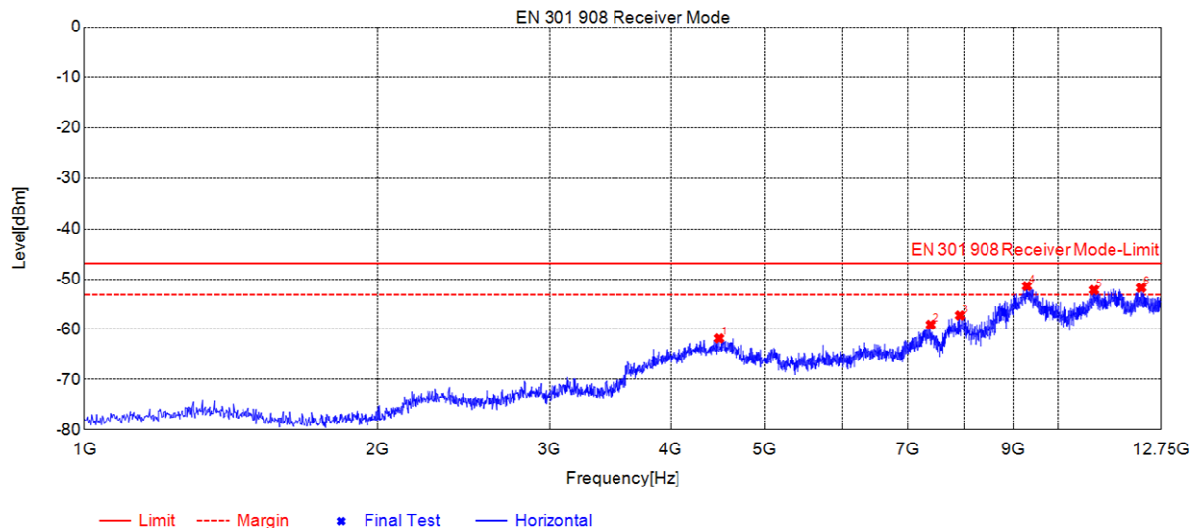


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.8364	-89.15	-85.32	-57.00	28.32	3.83	Horizontal
2	70.7482	-88.25	-83.80	-57.00	26.80	4.45	Horizontal
3	109.167	-88.67	-85.56	-57.00	28.56	3.11	Horizontal
4	249.846	-87.66	-81.49	-57.00	24.49	6.17	Horizontal
5	592.906	-89.69	-83.26	-57.00	26.26	6.43	Horizontal
6	907.637	-89.18	-78.99	-57.00	21.99	10.19	Horizontal

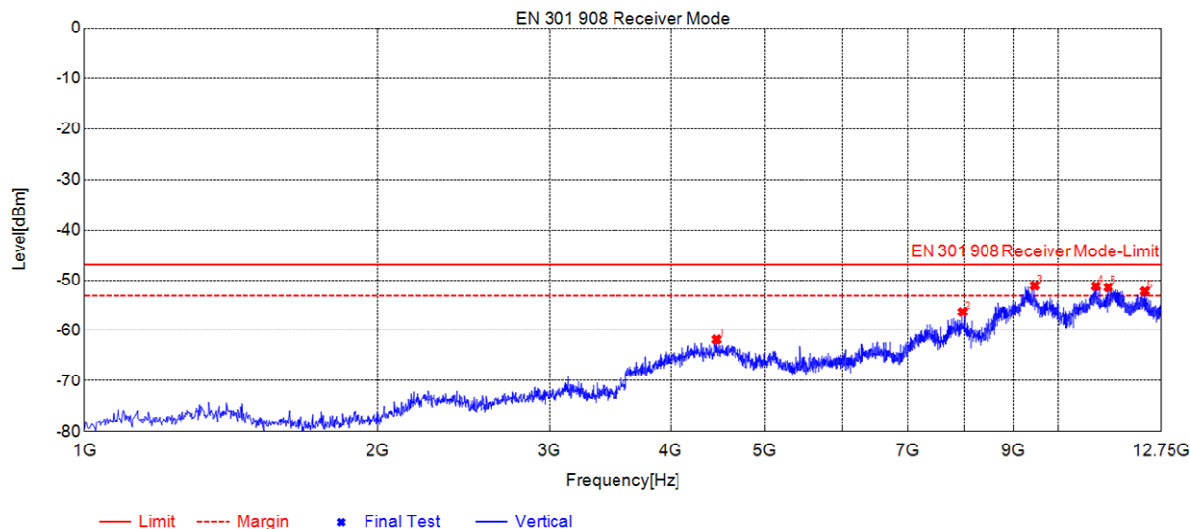


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	35.045	-89.85	-88.62	-57.00	31.62	1.23	Vertical
2	79.868	-82.81	-85.23	-57.00	28.23	-2.42	Vertical
3	93.2567	-82.37	-79.52	-57.00	22.52	2.85	Vertical
4	108.197	-88.38	-76.81	-57.00	19.81	11.57	Vertical
5	203.664	-88.15	-88.77	-57.00	31.77	-0.62	Vertical
6	759.585	-89.31	-81.71	-57.00	24.71	7.60	Vertical

**LTE Band 7(5MHz)
Above 1GHz:**

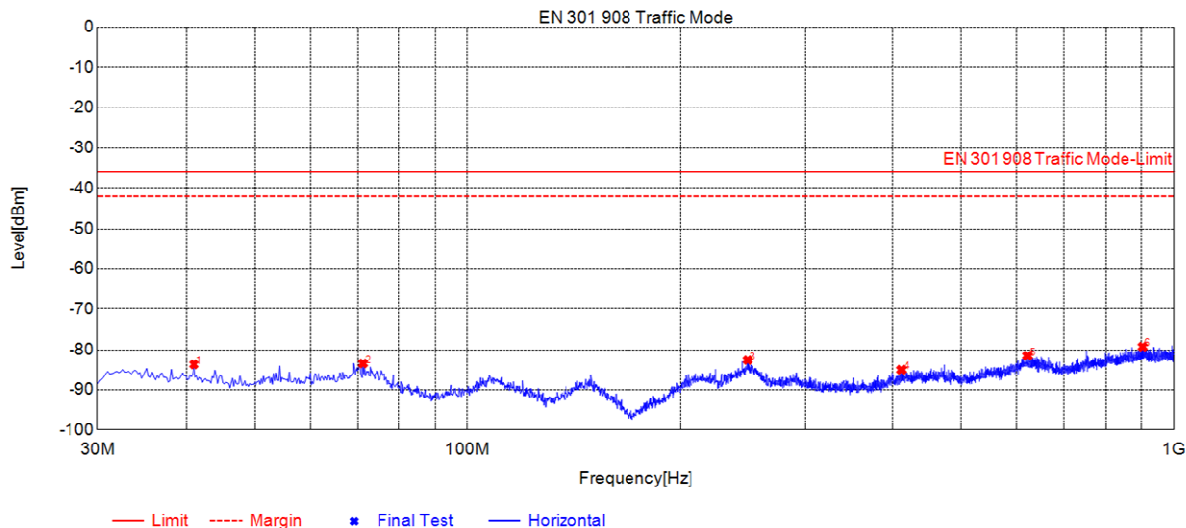


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4481.04	-65.65	-61.76	-47.00	14.76	3.89	Horizontal
2	7402.68	-68.59	-59.09	-47.00	12.09	9.50	Horizontal
3	7926.83	-66.89	-57.30	-47.00	10.30	9.59	Horizontal
4	9283.05	-65.01	-51.35	-47.00	4.35	13.66	Horizontal
5	10876.6	-67.82	-52.11	-47.00	5.11	15.71	Horizontal
6	12167.0	-69.02	-51.68	-47.00	4.68	17.34	Horizontal

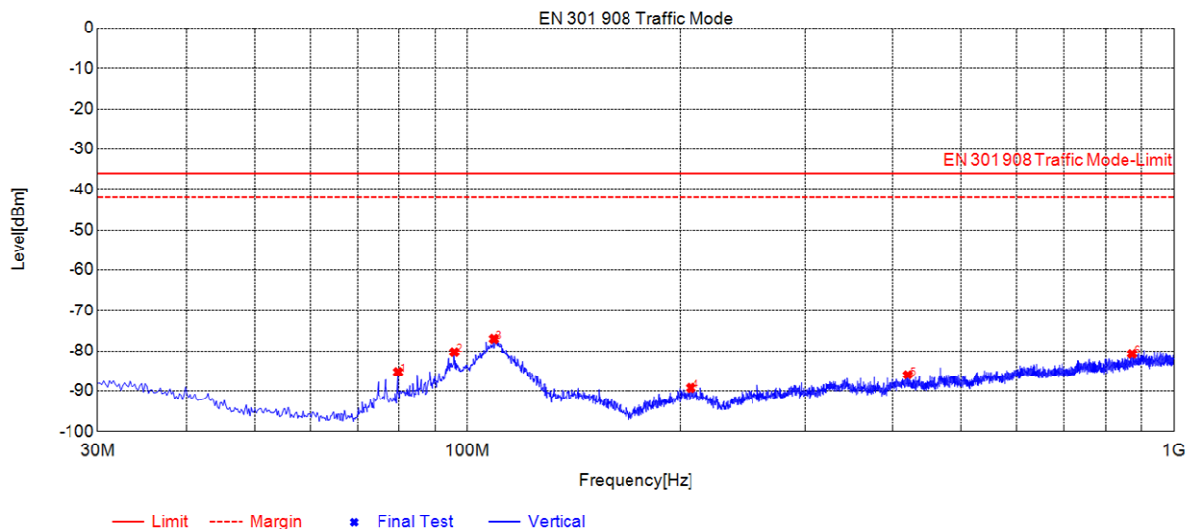


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4455.19	-65.18	-61.79	-47.00	14.79	3.39	Vertical
2	7973.84	-66.98	-56.34	-47.00	9.34	10.64	Vertical
3	9452.29	-65.25	-51.08	-47.00	4.08	14.17	Vertical
4	10923.6	-67.85	-51.17	-47.00	4.17	16.68	Vertical
5	11252.7	-67.34	-51.40	-47.00	4.40	15.94	Vertical
6	12270.5	-68.95	-52.17	-47.00	5.17	16.78	Vertical

**LTE Band 8(5MHz)
Below 1GHz:**

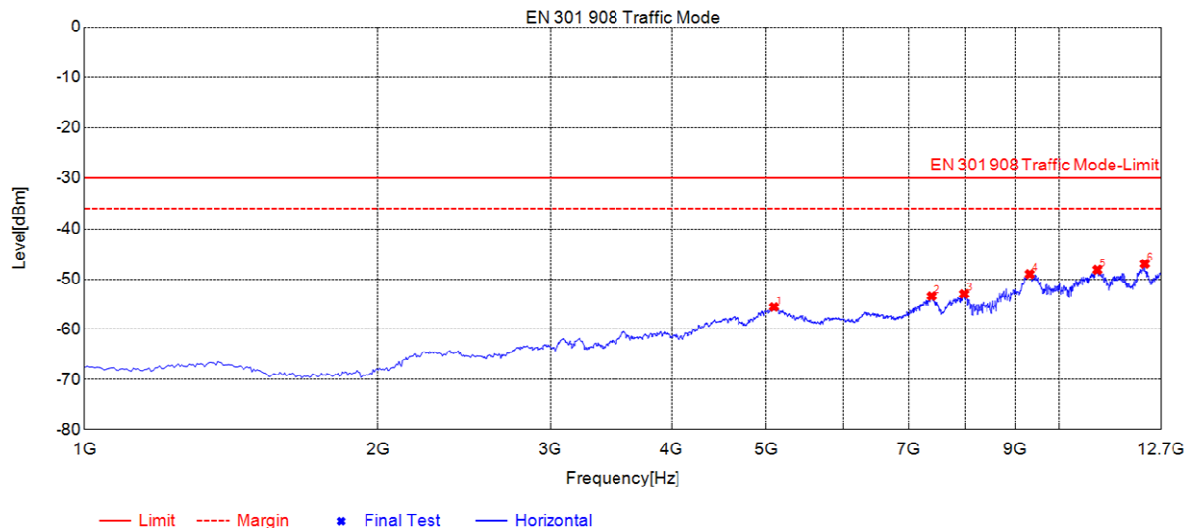


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.0602	-87.68	-83.74	-36.00	47.74	3.94	Horizontal
2	71.1362	-87.84	-83.50	-36.00	47.50	4.34	Horizontal
3	249.263	-88.71	-82.63	-36.00	46.63	6.08	Horizontal
4	411.674	-88.83	-85.09	-36.00	49.09	3.74	Horizontal
5	620.654	-89.11	-81.51	-36.00	45.51	7.60	Horizontal
6	903.756	-89.32	-79.24	-36.00	43.24	10.08	Horizontal

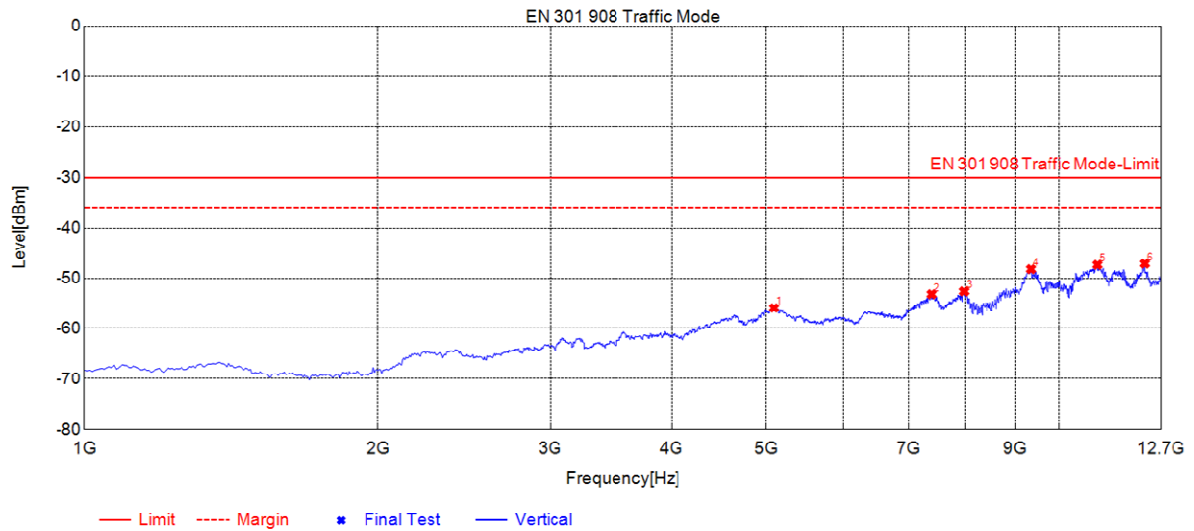


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	79.868	-82.77	-85.19	-36.00	49.19	-2.42	Vertical
2	95.9732	-84.80	-80.33	-36.00	44.33	4.47	Vertical
3	108.973	-89.13	-77.12	-36.00	41.12	12.01	Vertical
4	207.157	-88.94	-89.30	-36.00	53.30	-0.36	Vertical
5	420.018	-88.69	-85.96	-36.00	49.96	2.73	Vertical
6	873.292	-89.17	-80.74	-36.00	44.74	8.43	Vertical

**LTE Band 8(5MHz)
Above 1GHz:**

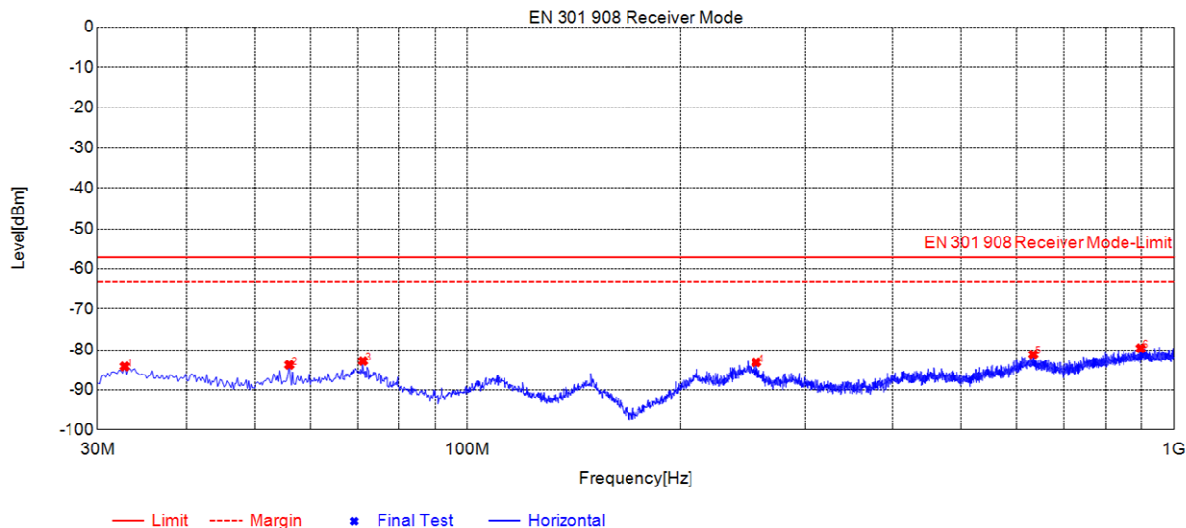


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.52	-55.60	-30.00	25.60	9.92	Horizontal
2	7397.24	-65.31	-53.37	-30.00	23.37	11.94	Horizontal
3	7976.68	-65.90	-52.94	-30.00	22.94	12.96	Horizontal
4	9311.15	-65.64	-49.02	-30.00	19.02	16.62	Horizontal
5	10920.7	-67.29	-48.19	-30.00	18.19	19.10	Horizontal
6	12220.0	-68.53	-47.02	-30.00	17.02	21.51	Horizontal

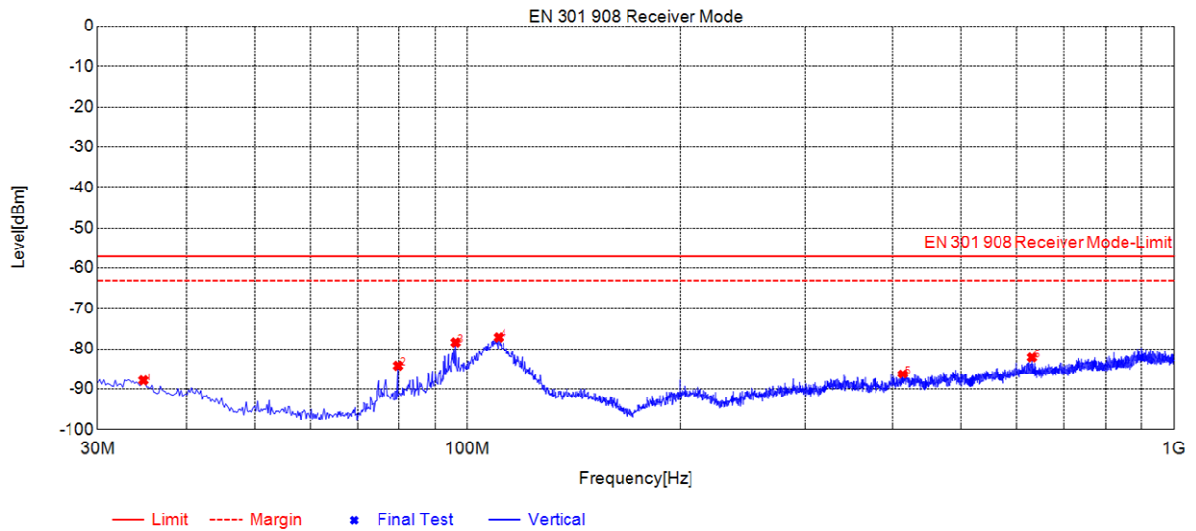


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.62	-55.89	-30.00	25.89	9.73	Vertical
2	7397.24	-65.39	-53.14	-30.00	23.14	12.25	Vertical
3	7976.68	-65.94	-52.58	-30.00	22.58	13.36	Vertical
4	9340.42	-65.25	-48.22	-30.00	18.22	17.03	Vertical
5	10920.7	-67.27	-47.38	-30.00	17.38	19.89	Vertical
6	12220.0	-68.47	-47.15	-30.00	17.15	21.32	Vertical

**LTE Band 8(5MHz)
Below 1GHz:**

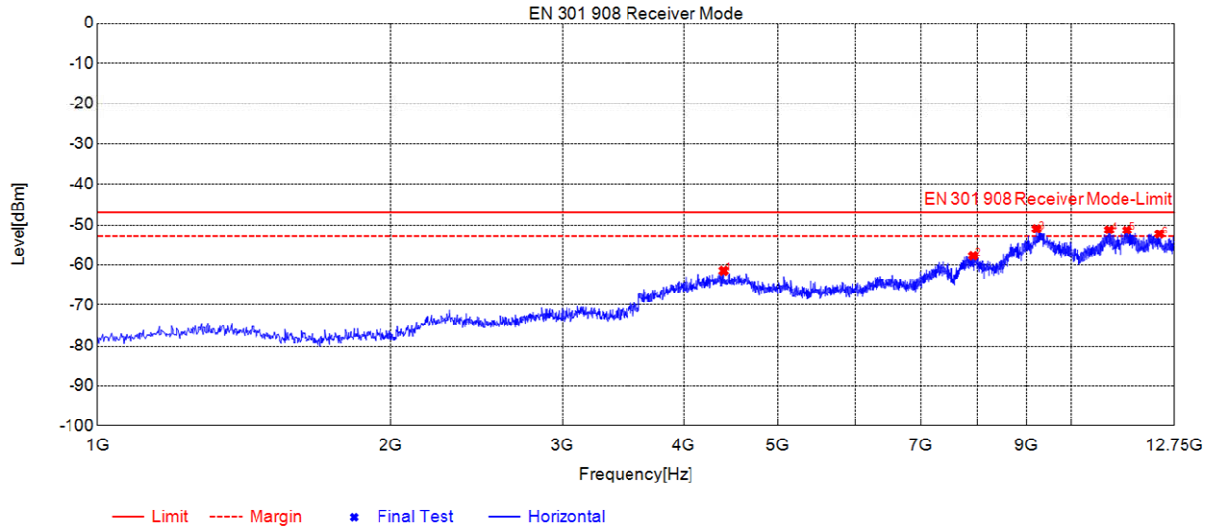


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.7165	-89.41	-84.25	-57.00	27.25	5.16	Horizontal
2	56.0012	-87.11	-83.86	-57.00	26.86	3.25	Horizontal
3	71.1362	-87.25	-82.91	-57.00	25.91	4.34	Horizontal
4	256.443	-88.28	-83.22	-57.00	26.22	5.06	Horizontal
5	632.102	-89.09	-81.18	-57.00	24.18	7.91	Horizontal
6	897.741	-89.57	-79.62	-57.00	22.62	9.95	Horizontal



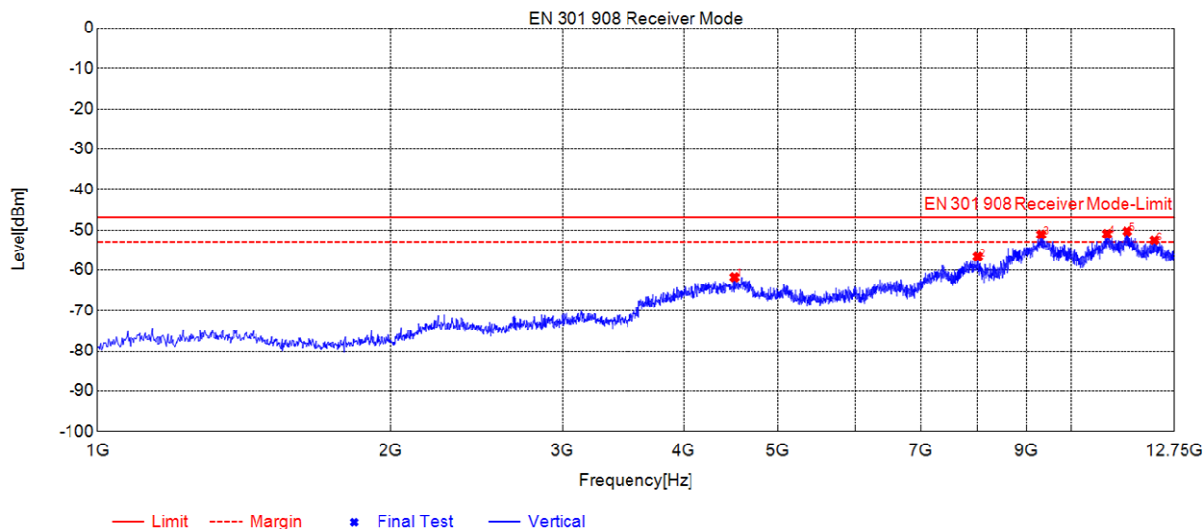
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.851	-89.25	-87.95	-57.00	30.95	1.30	Vertical
2	79.868	-81.74	-84.16	-57.00	27.16	-2.42	Vertical
3	96.3613	-83.15	-78.45	-57.00	21.45	4.70	Vertical
4	110.720	-89.40	-77.25	-57.00	20.25	12.15	Vertical
5	413.420	-89.01	-86.28	-57.00	29.28	2.73	Vertical
6	629.579	-88.38	-82.13	-57.00	25.13	6.25	Vertical

**LTE Band 8(5MHz)
Above 1GHz:**



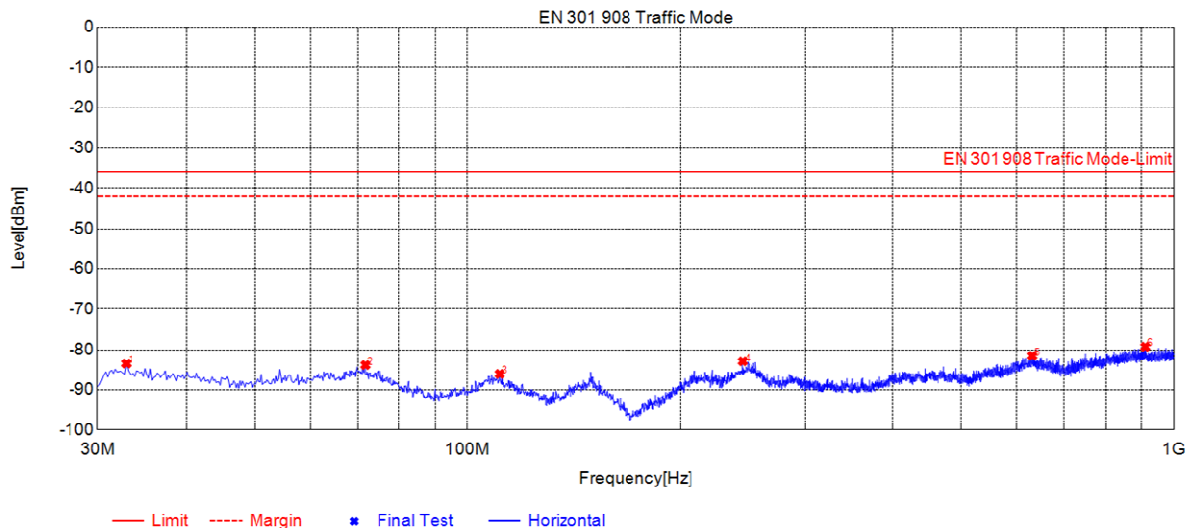
Suspected List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4394.07	-64.74	-61.40	-47.00	14.40	3.34	Horizontal
2	7929.18	-67.35	-57.73	-47.00	10.73	9.62	Horizontal
3	9210.19	-64.23	-50.99	-47.00	3.99	13.24	Horizontal
4	10930.7	-67.12	-51.27	-47.00	4.27	15.85	Horizontal
5	11407.8	-67.79	-51.34	-47.00	4.34	16.45	Horizontal
6	12317.5	-69.20	-52.36	-47.00	5.36	16.84	Horizontal

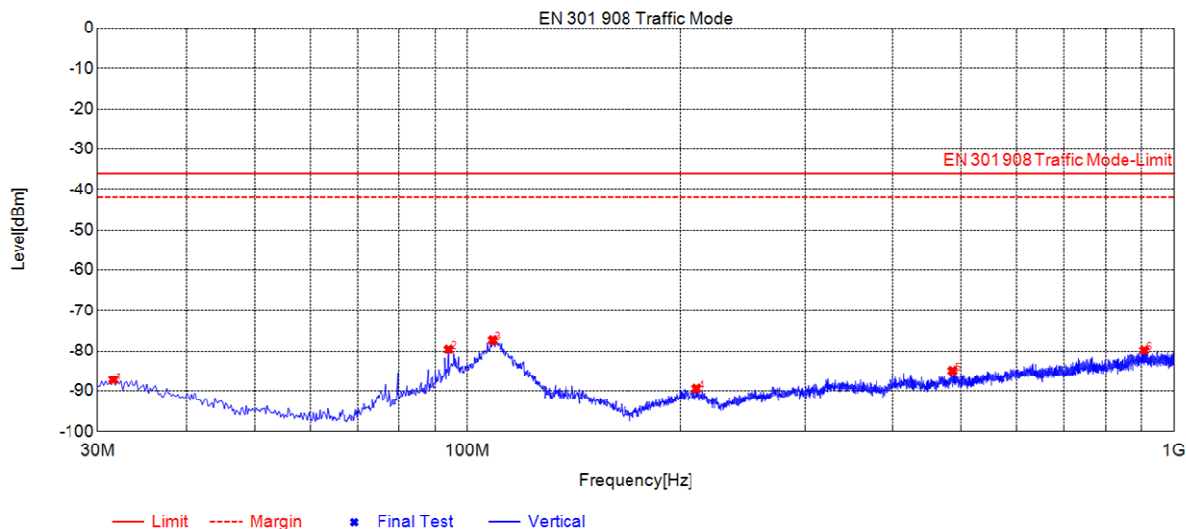


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4506.90	-65.57	-61.77	-47.00	14.77	3.80	Vertical
2	8013.80	-67.52	-56.66	-47.00	9.66	10.86	Vertical
3	9311.26	-65.24	-51.07	-47.00	4.07	14.17	Vertical
4	10879.0	-67.49	-50.94	-47.00	3.94	16.55	Vertical
5	11414.9	-67.70	-50.32	-47.00	3.32	17.38	Vertical
6	12171.7	-69.45	-52.50	-47.00	5.50	16.95	Vertical

**LTE Band 20(5MHz)
Below 1GHz:**

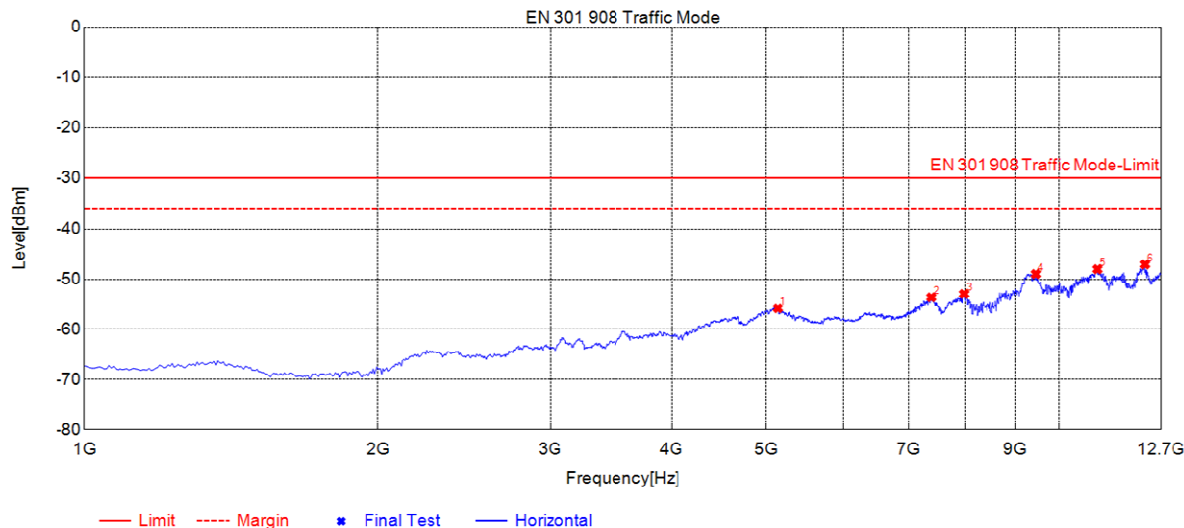


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.9106	-88.65	-83.52	-36.00	47.52	5.13	Horizontal
2	71.7183	-88.06	-83.90	-36.00	47.90	4.16	Horizontal
3	111.108	-89.12	-86.12	-36.00	50.12	3.00	Horizontal
4	245.189	-88.32	-82.96	-36.00	46.96	5.36	Horizontal
5	629.968	-89.49	-81.52	-36.00	45.52	7.97	Horizontal
6	911.518	-89.45	-79.25	-36.00	43.25	10.20	Horizontal

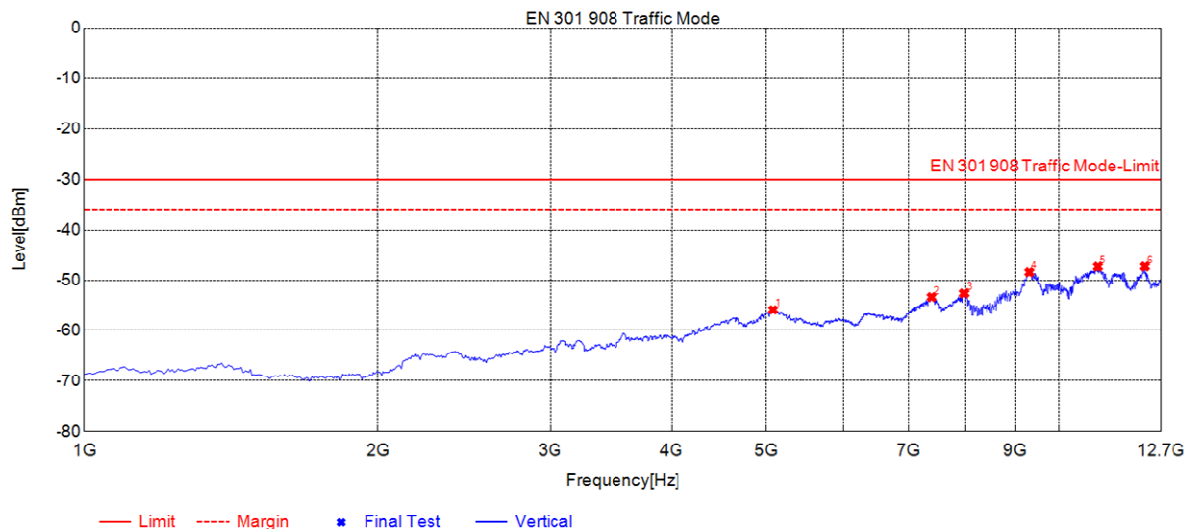


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.5523	-89.83	-87.29	-36.00	51.29	2.54	Vertical
2	94.2268	-83.06	-79.63	-36.00	43.63	3.43	Vertical
3	108.585	-89.21	-77.42	-36.00	41.42	11.79	Vertical
4	211.232	-89.16	-89.48	-36.00	53.48	-0.32	Vertical
5	486.379	-88.42	-84.88	-36.00	48.88	3.54	Vertical
6	908.219	-89.25	-79.86	-36.00	43.86	9.39	Vertical

**LTE Band 20(5MHz)
Above 1GHz:**

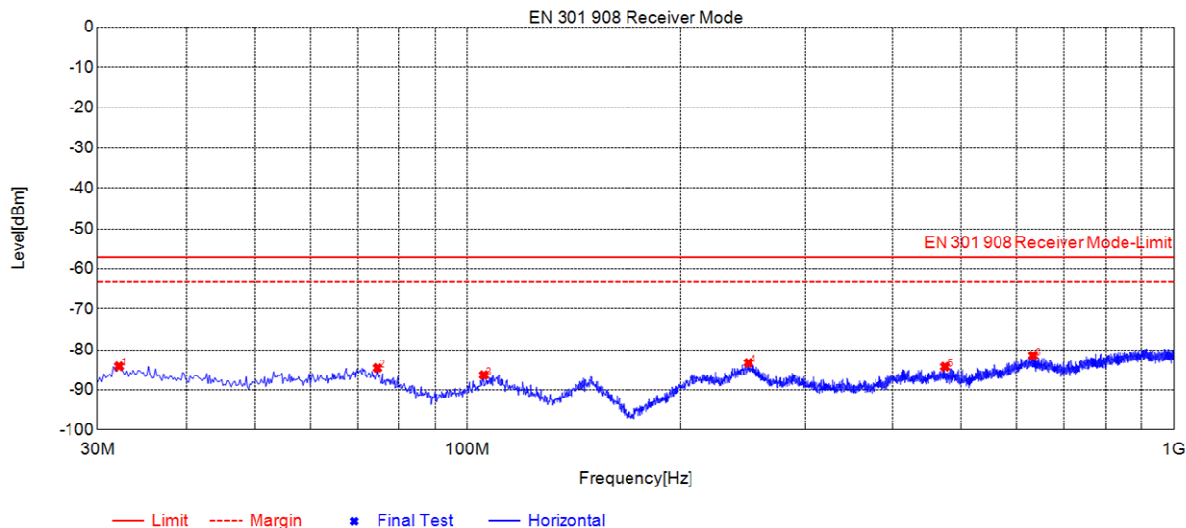


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5138.01	-65.56	-55.87	-30.00	25.87	9.69	Horizontal
2	7391.39	-65.50	-53.60	-30.00	23.60	11.90	Horizontal
3	7976.68	-65.89	-52.93	-30.00	22.93	12.96	Horizontal
4	9445.77	-65.80	-48.99	-30.00	18.99	16.81	Horizontal
5	10920.7	-67.15	-48.05	-30.00	18.05	19.10	Horizontal
6	12225.9	-68.54	-47.11	-30.00	17.11	21.43	Horizontal

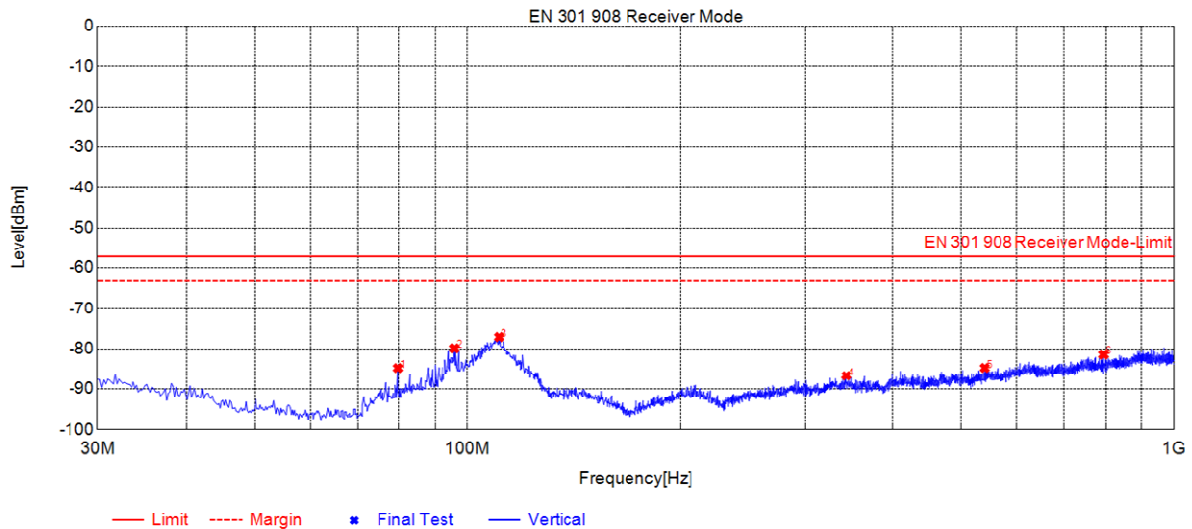


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5079.48	-65.48	-55.87	-30.00	25.87	9.61	Vertical
2	7397.24	-65.56	-53.31	-30.00	23.31	12.25	Vertical
3	7976.68	-65.94	-52.58	-30.00	22.58	13.36	Vertical
4	9305.30	-65.47	-48.44	-30.00	18.44	17.03	Vertical
5	10932.4	-67.20	-47.37	-30.00	17.37	19.83	Vertical
6	12220.0	-68.65	-47.33	-30.00	17.33	21.32	Vertical

**LTE Band 20(5MHz)
Below 1GHz:**

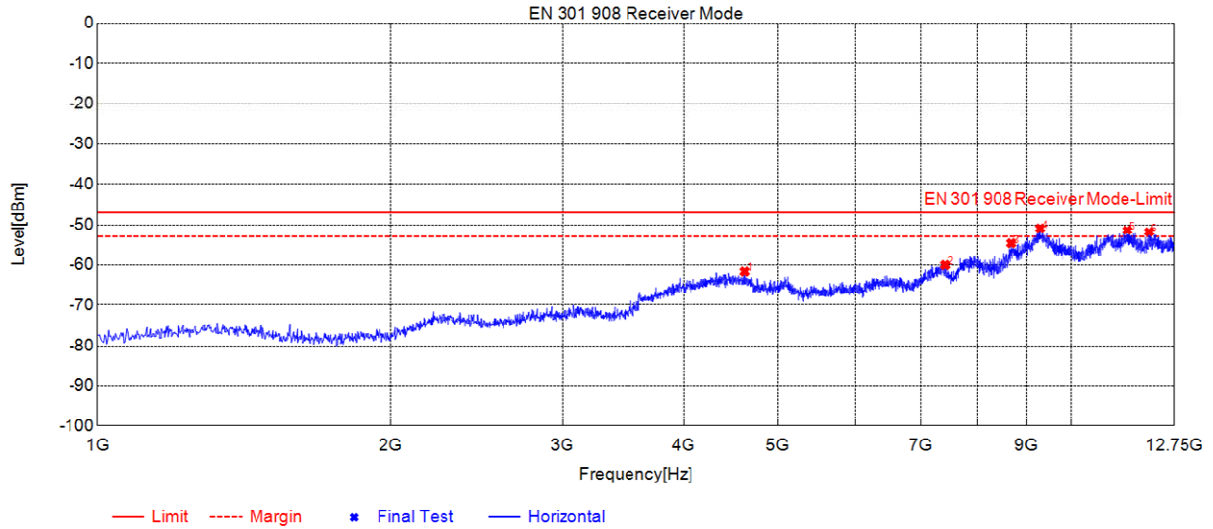


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.1344	-89.44	-84.21	-57.00	27.21	5.23	Horizontal
2	74.6289	-87.96	-84.64	-57.00	27.64	3.32	Horizontal
3	105.481	-88.69	-86.40	-57.00	29.40	2.29	Horizontal
4	249.846	-89.53	-83.36	-57.00	26.36	6.17	Horizontal
5	474.931	-88.60	-84.32	-57.00	27.32	4.28	Horizontal
6	631.520	-89.41	-81.48	-57.00	24.48	7.93	Horizontal

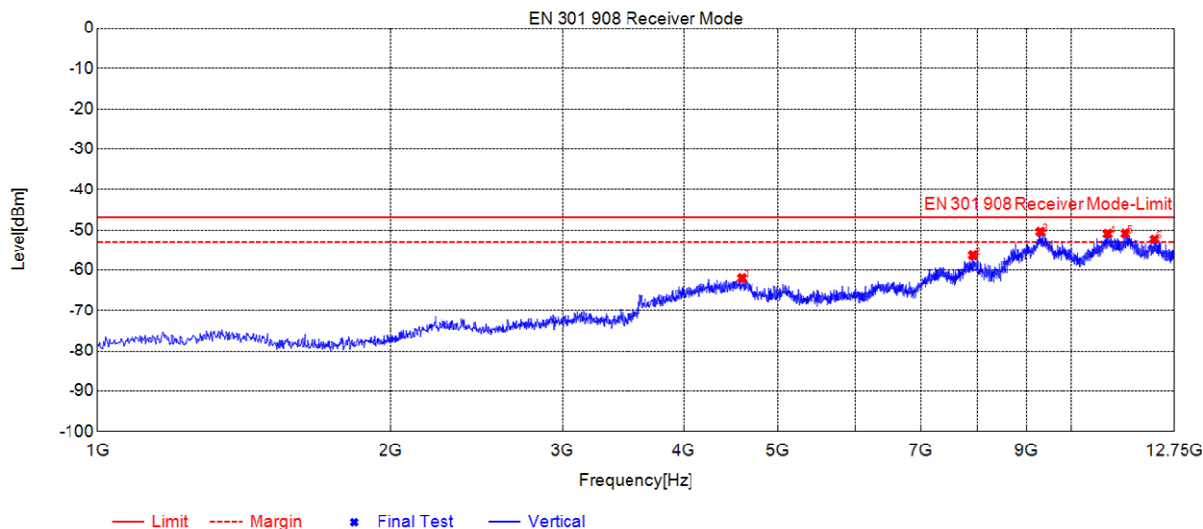


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	79.868	-82.30	-84.72	-57.00	27.72	-2.42	Vertical
2	95.9732	-84.37	-79.90	-57.00	22.90	4.47	Vertical
3	110.914	-89.18	-77.16	-57.00	20.16	12.02	Vertical
4	343.954	-88.54	-86.70	-57.00	29.70	1.84	Vertical
5	539.157	-88.86	-84.69	-57.00	27.69	4.17	Vertical
6	794.512	-88.77	-81.41	-57.00	24.41	7.36	Vertical

**LTE Band 20(5MHz)
Above 1GHz:**

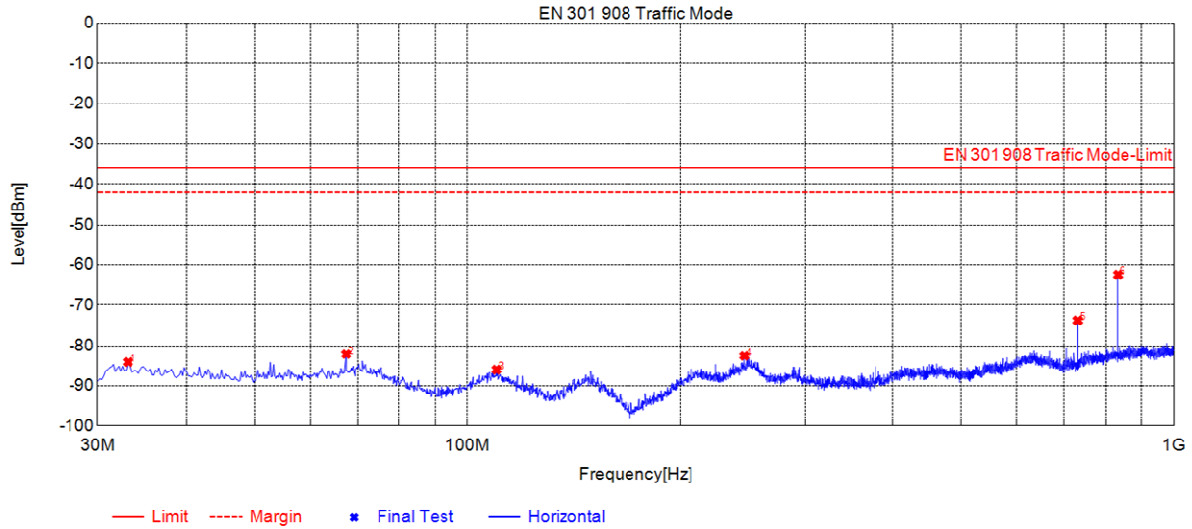


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4615.02	-65.44	-61.55	-47.00	14.55	3.89	Horizontal
2	7428.53	-69.34	-60.00	-47.00	13.00	9.34	Horizontal
3	8681.33	-66.02	-54.67	-47.00	7.67	11.35	Horizontal
4	9287.75	-64.56	-50.87	-47.00	3.87	13.69	Horizontal
5	11419.6	-67.78	-51.37	-47.00	4.37	16.41	Horizontal
6	12023.7	-68.31	-51.79	-47.00	4.79	16.52	Horizontal

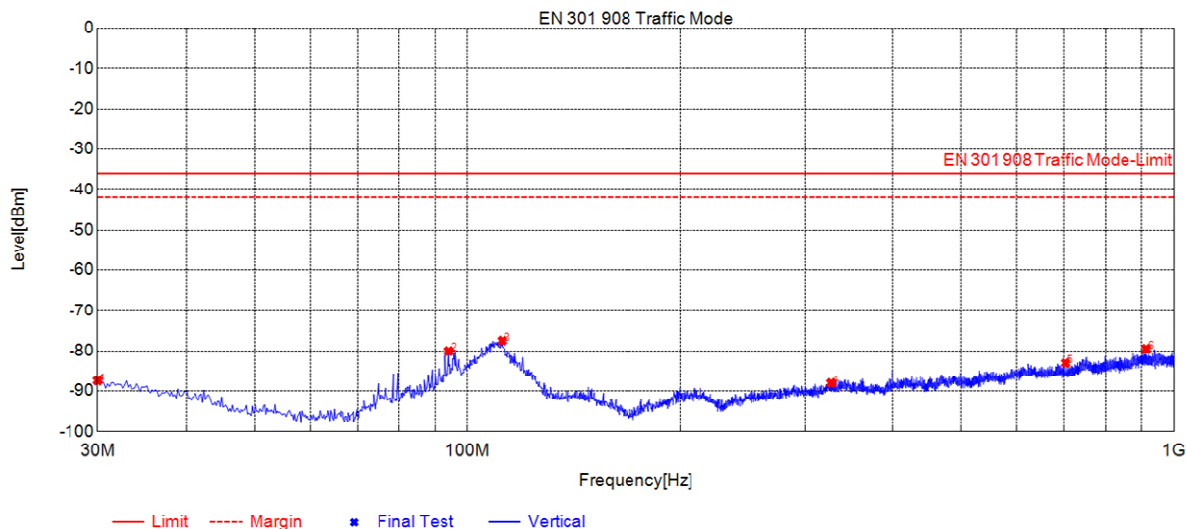


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4586.81	-65.85	-61.94	-47.00	14.94	3.91	Vertical
2	7924.48	-66.32	-56.33	-47.00	9.33	9.99	Vertical
3	9292.45	-64.46	-50.37	-47.00	3.37	14.09	Vertical
4	10893.1	-67.57	-50.86	-47.00	3.86	16.71	Vertical
5	11358.5	-67.66	-50.79	-47.00	3.79	16.87	Vertical
6	12174.1	-69.20	-52.25	-47.00	5.25	16.95	Vertical

**LTE Band 28(5MHz)
Below 1GHz:**

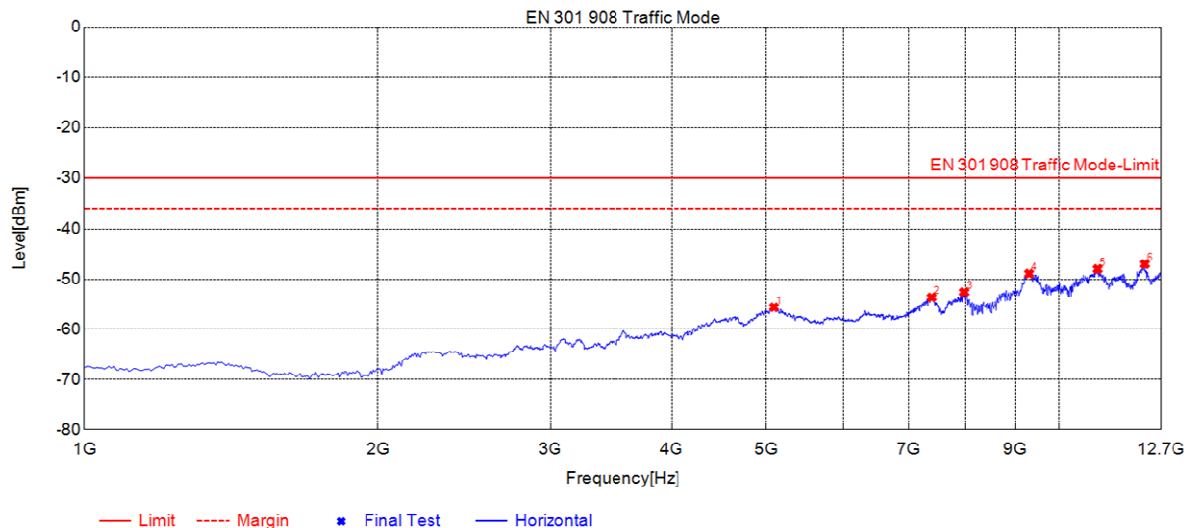


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	33.1046	-89.25	-84.15	-36.00	48.15	5.10	Horizontal
2	67.4495	-86.54	-82.13	-36.00	46.13	4.41	Horizontal
3	109.944	-89.34	-86.05	-36.00	50.05	3.29	Horizontal
4	246.547	-88.18	-82.58	-36.00	46.58	5.60	Horizontal
5	731.450	-80.69	-73.80	-36.00	37.80	6.89	Horizontal
6	832.738	-71.38	-62.39	-36.00	26.39	8.99	Horizontal



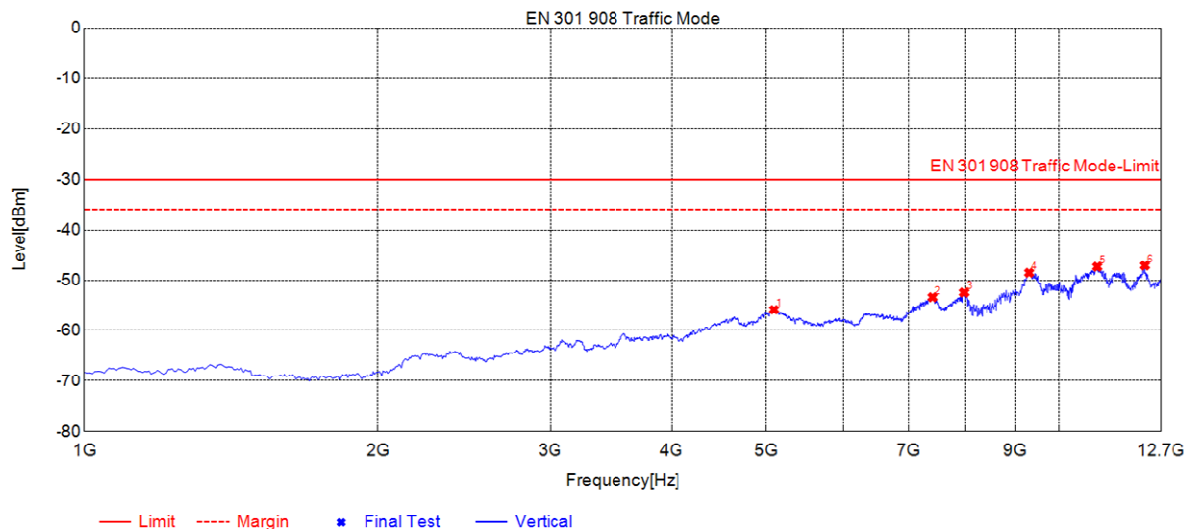
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30	-90.61	-87.49	-36.00	51.49	3.12	Vertical
2	94.2268	-83.49	-80.06	-36.00	44.06	3.43	Vertical
3	112.078	-88.85	-77.57	-36.00	41.57	11.28	Vertical
4	327.461	-89.62	-88.08	-36.00	52.08	1.54	Vertical
5	702.344	-89.16	-82.98	-36.00	46.98	6.18	Vertical
6	913.458	-88.89	-79.53	-36.00	43.53	9.36	Vertical

**LTE Band 28(5MHz)
Above 1GHz:**



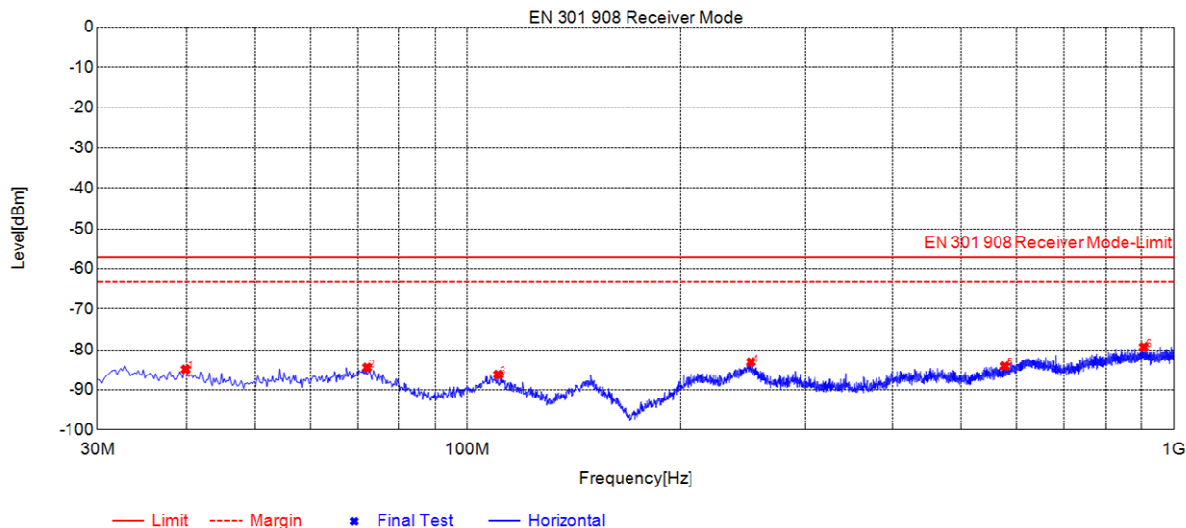
Suspected List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.57	-55.65	-30.00	25.65	9.92	Horizontal
2	7397.24	-65.57	-53.63	-30.00	23.63	11.94	Horizontal
3	7976.68	-65.55	-52.59	-30.00	22.59	12.96	Horizontal
4	9299.44	-65.53	-48.91	-30.00	18.91	16.62	Horizontal
5	10926.5	-67.07	-48.01	-30.00	18.01	19.06	Horizontal
6	12220.0	-68.55	-47.04	-30.00	17.04	21.51	Horizontal

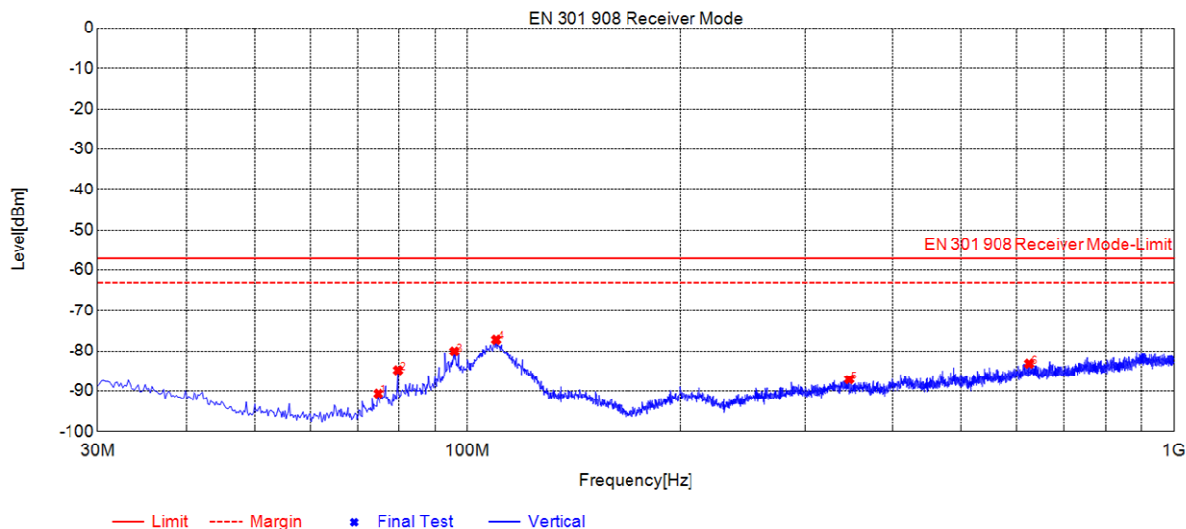


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5091.19	-65.57	-55.84	-30.00	25.84	9.73	Vertical
2	7414.80	-65.62	-53.33	-30.00	23.33	12.29	Vertical
3	7976.68	-65.77	-52.41	-30.00	22.41	13.36	Vertical
4	9299.44	-65.58	-48.55	-30.00	18.55	17.03	Vertical
5	10914.8	-67.28	-47.36	-30.00	17.36	19.92	Vertical
6	12220.0	-68.45	-47.13	-30.00	17.13	21.32	Vertical

**LTE Band 28(5MHz)
Below 1GHz:**

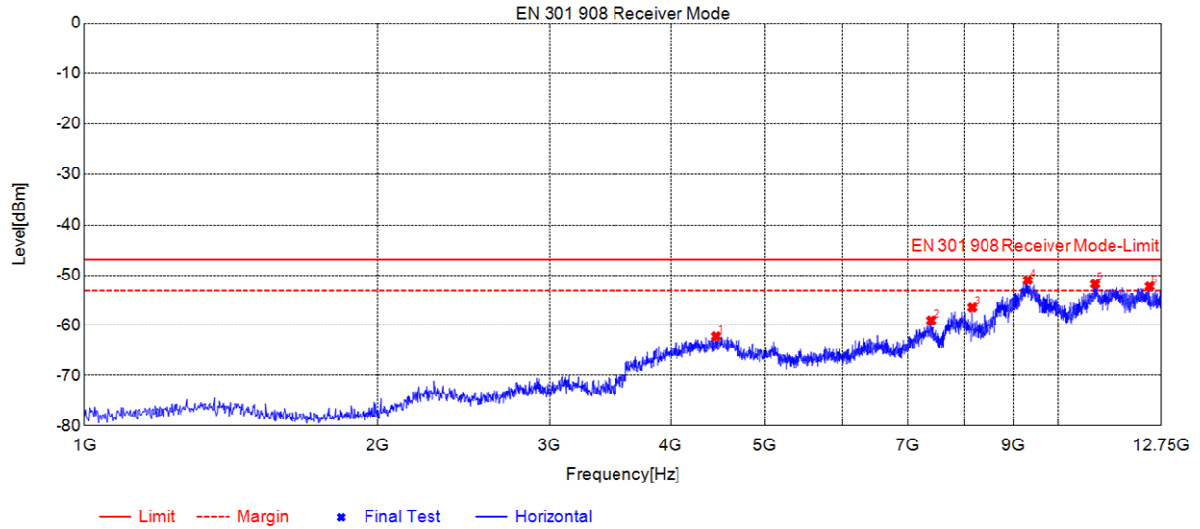


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.896	-89.10	-84.99	-57.00	27.99	4.11	Horizontal
2	72.1064	-88.57	-84.52	-57.00	27.52	4.05	Horizontal
3	110.526	-89.45	-86.29	-57.00	29.29	3.16	Horizontal
4	251.980	-89.03	-83.18	-57.00	26.18	5.85	Horizontal
5	576.801	-89.83	-84.19	-57.00	27.19	5.64	Horizontal
6	906.861	-89.49	-79.33	-57.00	22.33	10.16	Horizontal

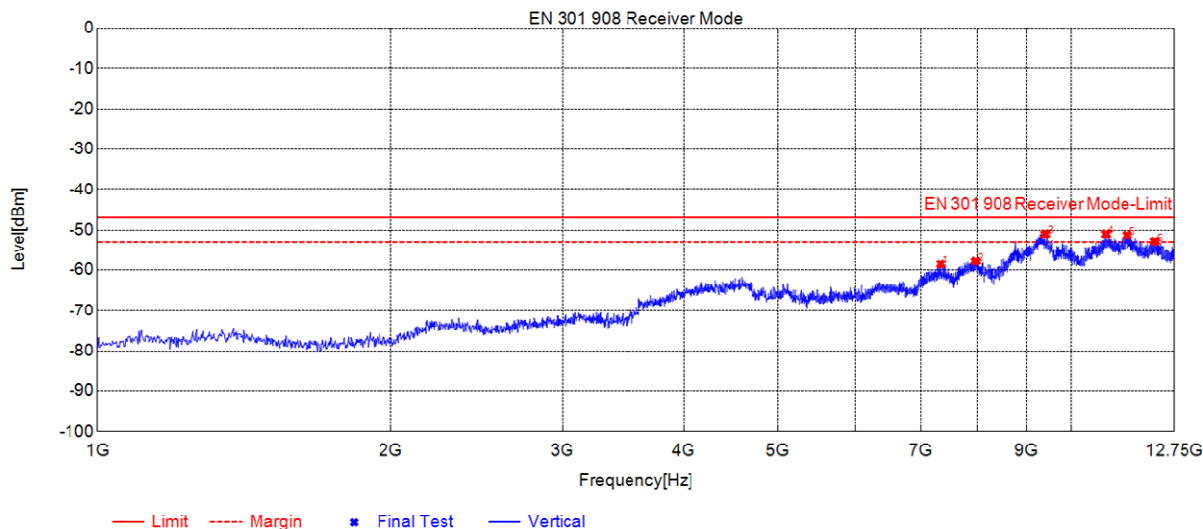


Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	74.823	-86.49	-90.68	-57.00	33.68	-4.19	Vertical
2	79.868	-82.33	-84.75	-57.00	27.75	-2.42	Vertical
3	95.9732	-84.60	-80.13	-57.00	23.13	4.47	Vertical
4	109.75	-89.78	-77.32	-57.00	20.32	12.46	Vertical
5	347.059	-89.00	-87.17	-57.00	30.17	1.83	Vertical
6	623.952	-89.21	-83.17	-57.00	26.17	6.04	Vertical

**LTE Band 28(5MHz)
Above 1GHz:**



Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	4450.49	-65.84	-62.15	-47.00	15.15	3.69	Horizontal
2	7409.73	-68.49	-59.03	-47.00	12.03	9.46	Horizontal
3	8154.83	-66.48	-56.53	-47.00	9.53	9.95	Horizontal
4	9301.86	-64.74	-50.98	-47.00	3.98	13.76	Horizontal
5	10904.8	-67.72	-51.74	-47.00	4.74	15.98	Horizontal
6	12406.8	-68.39	-52.20	-47.00	5.20	16.19	Horizontal



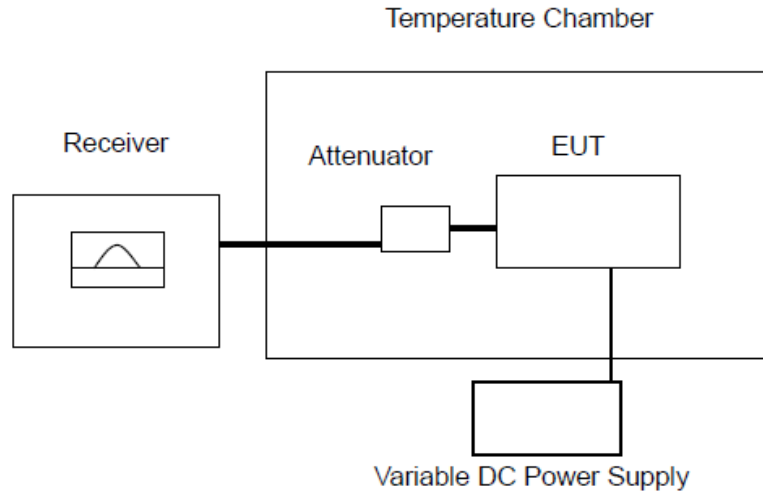
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	7343.91	-67.94	-58.53	-47.00	11.53	9.41	Vertical
2	7976.19	-68.49	-57.82	-47.00	10.82	10.67	Vertical
3	9400.58	-65.05	-50.98	-47.00	3.98	14.07	Vertical
4	10853.1	-67.23	-50.98	-47.00	3.98	16.25	Vertical
5	11412.5	-68.65	-51.26	-47.00	4.26	17.39	Vertical
6	12185.8	-69.78	-52.83	-47.00	5.83	16.95	Vertical

4.1.4 Transmitter minimum output power

Limit

The minimum output power measured shall not exceed the values specified in table 4.2.5.1.2-1.

Setup



Test Procedures

- 1) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 6.3.2.1.4.1-1. Since the UE has no payload and no loopback data to send the UE sends uplink MAC padding bits on the UL RMC.
- 2) Send continuous uplink power control "down" commands in the uplink scheduling information to the UE to ensure that the UE transmits at its minimum output power.
- 3) Measure the mean power of the UE in the associated measurement bandwidth specified in table 4.5.2.1-1 for the specific channel bandwidth under test. The period of measurement shall be the continuous duration of one sub-frame (1 ms). For TDD slots with transient periods are not under test.
- 4) Repeat for applicable test frequencies, channel bandwidths, operating band combinations and environmental conditions. Details of the test method can be found in TS 136 521-1 [1], clause 6.3.2.

Test Result

See Report PD20230175RF01 for test data.



4.1.5 Receiver Adjacent Channel Selectivity (ACS)

Limit

The throughput R_{av} shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in TS 136 521-1 [1] under the conditions specified in table 4.2.6.2-2 and also under the conditions specified in table 4.2.6.2-3.

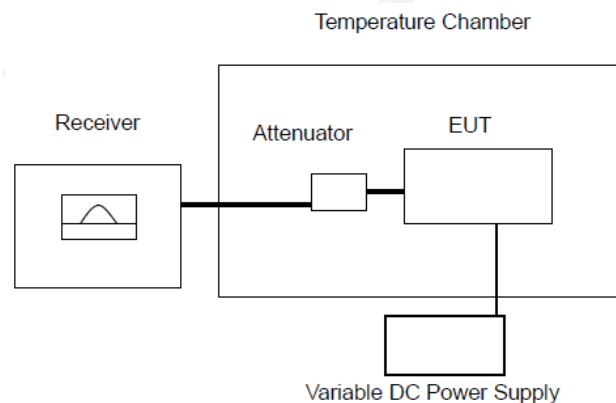
Table 4.2.6.2-2: Test parameters for Adjacent channel selectivity, Case 1

Rx Parameter	Units	Channel bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Power in Transmission Bandwidth Configuration	dBm	REFSENS + 14 dB					
$P_{\text{Interferer}}$	dBm	REFSENS +45,5 dB	REFSENS +45,5 dB	REFSENS +45,5 dB	REFSENS +45,5 dB	REFSENS +42,5 dB	REFSENS +39,5 dB
$BW_{\text{Interferer}}$	MHz	1,4	3	5	5	5	5
$F_{\text{Interferer}}$ (offset)	MHz	1,4025	3,0075	5,0025	7,5075	10,0125	12,5025
NOTE 1: The transmitter shall be set to 4 dB below P_{CMAX_L} or $P_{\text{CMAX}_{L,CA}}$ as defined in clause 6.2.5 in TS 136 101 [4].							
NOTE 2: The interferer consists of the Reference measurement channel specified in clause A.3.2 of TS 136 521-1 [1] with set-up according to clause C.3.1 of TS 136 521-1 [1].							
NOTE 3: REFSENS as defined in TS 136 521-1 [1].							

Table 4.2.6.2-3: Test parameters for Adjacent channel selectivity, Case 2

Rx Parameter	Units	Channel bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Power in Transmission Bandwidth Configuration	dBm	-56,5	-56,5	-56,5	-56,5	-53,5	-50,5
$P_{\text{Interferer}}$	dBm	-25					
$BW_{\text{Interferer}}$	MHz	1,4	3	5	5	5	5
$F_{\text{Interferer}}$ (offset)	MHz	1,4025	3,0075	5,0025	7,5075	10,0125	12,5025
NOTE 1: The transmitter shall be set to 24 dB below P_{CMAX_L} or $P_{\text{CMAX}_{L,CA}}$ as defined in clause 6.2.5 in TS 136 101 [4].							
NOTE 2: The interferer consists of the Reference measurement channel specified in clause A.3.2 of TS 136 521-1 [1] with set-up according to clause C.3.1 of TS 136 521-1 [1].							

Setup



Test Procedures

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to TS 136 521-1 [1], table 7.5.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 7.5.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the Downlink signal level to the value as defined in table 4.2.6.2-2 (Case 1). Send Uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.6.2-2 (Case 1) for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0 \text{ GHz} < f \leq 4,2 \text{ GHz}$, for at least the duration of the Throughput measurement (obtain correct UE output power as specified in TS 136 521-1 [1]).
- 4) Set the Interferer signal level to the value as defined in table 4.2.6.2-2 (Case 1) and frequency below the wanted signal, using a modulated interferer as defined in TS 136 521-1 [1], annex D.
- 5) Measure the average throughput for a duration sufficient to achieve statistical significance according to clause G.2 of TS 136 521-1 [1].
- 6) Set the Downlink signal level to the value as defined in table 4.2.6.2-3 (Case 2). Send Uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.6.2-3 (Case 2) for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0 \text{ GHz} < f \leq 4,2 \text{ GHz}$, for at least the duration of the throughput measurement (obtain correct UE output power as specified in TS 136 521-1 [1]).
- 7) Set the Interferer signal level to the value as defined in table 4.2.6.2-3 (Case 2) and frequency below the wanted signal, using a modulated interferer as defined in TS 136 521-1 [1], annex D.
- 8) Measure the average throughput for a duration sufficient to achieve statistical significance according to TS 136 521-1 [1], annex G.
- 9) Repeat for applicable channel bandwidths in both Case 1 and Case 2.
- 10) Repeat for applicable test frequencies, channel bandwidths and operating band combinations.

Test Result

See Report PD20230175RF01 for test data.

4.1.6 Receiver blocking characteristics

Limit

With parameters specified in tables 4.2.7.2-1 and 4.2.7.2-2, the throughput shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in TS 136 521-1 [1].

With parameters specified in tables 4.2.7.2-3 and 4.2.7.2-4, the throughput shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in TS 136 521-1 [1], except for the spurious response frequencies. For table 4.2.7.2-4 in frequency range 1, 2 and 3, up to $\max(24 \cdot \frac{1}{NRB}, 6/6)$, exceptions are allowed for spurious response frequencies in each assigned frequency channel when measured using a 1 MHz step size, where NRB is the number of resource blocks in the downlink transmission bandwidth configuration. For these exceptions the requirements of clause 4.2.8 Spurious response are applicable. With parameters specified in table 4.2.7.2-5, the throughput shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in TS 136 521-1 [1].

Table 4.2.7.2-1: In-band blocking parameters

Rx Parameter	Units	Channel bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Power in Transmission Bandwidth Configuration	dBm	REFSENS + channel bandwidth specific value below					
		6	6	6	6	7	9
BW _{Interferer}	MHz	1,4	3	5	5	5	5
F _{offset, case 1}	MHz	2,1125	4,5075	7,5125	7,5025	7,5075	7,5125
F _{offset, case 2}	MHz	3,5075	7,5075	12,5075	12,5125	12,5025	12,5075
NOTE 1: The transmitter shall be set to 4 dB below P _{C_{MAX,L}} at the minimum uplink configuration specified in TS 136 101 [4] (table 7.3.1-2 with P _{C_{MAX,L}} as defined in clause 6.2.5).							
NOTE 2: The interferer consists of the Reference measurement channel specified in clause A.3.2 of TS 136 521-1 [1] with a set-up according to clause C.3.1 of TS 136 521-1 [1].							
NOTE 3: REFSENS as defined in TS 136 521-1 [1].							

Table 4.2.7.2-2: In-band blocking

E-UTRA band	Parameter	Units	Case 1	Case 2
	P _{Interferer}	dBm	-56	-44
1, 3, 7, 8, 20, 33, 34, 38, 40	F _{Interferer} (Offset)	MHz	= -BW/2 - F _{offset, case 1} and = +BW/2 + F _{offset, case 1}	$\leq -BW/2 - F_{offset, case 2}$ and $\geq +BW/2 + F_{offset, case 2}$
	F _{Interferer}	MHz	(note 2)	F _{DL_low} - 15 to F _{DL_high} + 15
NOTE 1: For certain bands, the unwanted modulated interfering signal may not fall inside the UE receive band, but within the first 15 MHz below or above the UE receive band.				
NOTE 2: For each carrier frequency the requirement is valid for two frequencies: a) the carrier frequency -BW/2 - F _{offset, case 1} ; and b) the carrier frequency + BW/2 + F _{offset, case 1} .				
NOTE 3: F _{Interferer} range values for unwanted modulated interfering signal are interferer center frequencies.				

Table 4.2.7.2-3: Out-of-band blocking parameters

Rx Parameter	Units	Channel bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Power in Transmission Bandwidth Configuration	dBm	REFSENS + channel bandwidth specific value below					
		6	6	6	6	7	9
NOTE 1: The transmitter shall be set to 4 dB below P_{CMAX_L} at the minimum uplink configuration specified in TS 136 101 [4] (table 7.3.1-2 with P_{CMAX_L} as defined in clause 6.2.5).							
NOTE 2: Reference measurement channel is clause A.3.2 of TS 136 521-1 [1].							
NOTE 3: REFSENS as defined in TS 136 521-1 [1].							

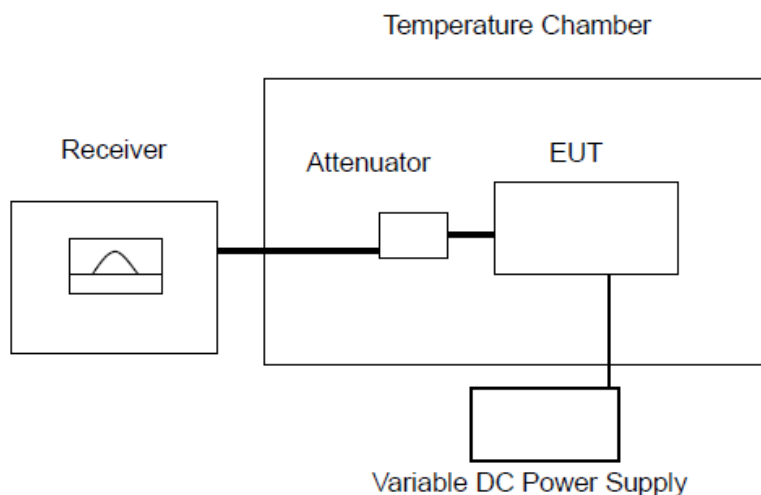
Table 4.2.7.2-4: Out-of-band blocking

E-UTRA band	Parameter	Units	Frequency		
			Range 1	Range 2	Range 3
	P _{Interferer}	dBm	-44	-30	-15
1, 3, 7, 8, 20, 33, 34, 38, 40	F _{Interferer} (CW)	MHz	F _{DL_low} - 15 to F _{DL_low} - 60	F _{DL_low} - 60 to F _{DL_low} - 85	F _{DL_low} - 85 to 1 MHz
			F _{DL_high} + 15 to F _{DL_high} + 60	F _{DL_high} + 60 to F _{DL_high} + 85	F _{DL_high} + 85 to +12 750 MHz
NOTE: Range 3 shall be tested only with the highest channel bandwidth.					

Table 4.2.7.2-5: Narrow-band blocking

Parameter	Unit	Channel Bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
P_w	dBm	$P_{REFSENS}$ + channel-bandwidth specific value below					
		22	18	16	13	14	16
P_{uw} (CW)	dBm	-55	-55	-55	-55	-55	-55
F_{uw} (offset for $\Delta f = 15$ kHz)	MHz	0,9075	1,7025	2,7075	5,2125	7,7025	10,2075
NOTE 1: The transmitter shall be set a 4 dB below P_{CMAX_L} at the minimum uplink configuration specified in TS 136 101 [4] (table 7.3.1-2 with P_{CMAX_L} as defined in clause 6.2.5).							
NOTE 2: Reference measurement channel is in clause A.3.2 of TS 136 521-1 [1].							
NOTE 3: REFSENS as defined in TS 136 521-1 [1].							

Setup



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Test Procedures

In-Band Procedure

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to TS 136 521-1 [1], table 7.6.1.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 7.6.1.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the parameters of the signal generator for an interfering signal below the wanted signal in Case 1 according to tables 4.2.7.2-1 and 4.2.7.2-2 as specified in TS 136 521-1 [1].
- 4) Set the downlink signal level according to the table 4.2.7.2-1. Send uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.7.2-1 for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0 \text{ GHz} < f \leq 4,2 \text{ GHz}$, for at least the duration of the throughput measurement as specified in TS 136 521-1 [1].
- 5) Measure the average throughput for a duration sufficient to achieve statistical significance according to clause G.2 of TS 136 521-1 [1].
- 6) Repeat steps from 3 to 5, using an interfering signal above the wanted signal in Case 1 at step 3.
- 7) Repeat steps from 3 to 6, using interfering signals in Case 2 at step 3) and 6). The ranges of case 2 are covered in steps equal to the interferer bandwidth. The test frequencies are chosen in analogy to TS 136 521-1 [1], table 7.6.1.4.2-1.
- 8) Repeat for applicable test frequencies, channel bandwidths and operating band combinations.

Out-Of-Band Procedure

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to TS 136 521-1 [1], table 7.6.2.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 7.6.2.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the parameters of the CW signal generator for an interfering signal according to table 4.2.7.2-4 as specified in TS 136 521-1 [1]. The frequency step size is 1 MHz.
- 4) Set the downlink signal level according to the table 4.2.7.2-3. Send uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.7.2-3 for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0 \text{ GHz} < f \leq 4,2 \text{ GHz}$, for at least the duration of the throughput measurement as specified in TS 136 521-1 [1].
- 5) Measure the average throughput for a duration sufficient to achieve statistical significance according to clause G.2 of TS 136 521-1 [1].
- 6) For table 4.2.7.2-4 record the frequencies for which the throughput does not meet the requirements.
- 7) Repeat for applicable test frequencies, channel bandwidths and operating band combinations.



Narrow-Band Procedure

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to TS 136 521-1 [1], table 7.6.3.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 7.6.3.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the parameters of the CW signal generator for an interfering signal below the wanted signal according to table 4.2.7.2-5 as specified in TS 136 521-1 [1].
- 4) Set the downlink signal level according to the table 4.2.7.2-5. Send uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.7.2-5 for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0 \text{ GHz} < f \leq 4,2 \text{ GHz}$, for at least the duration of the throughput measurement as specified in TS 136 521-1 [1].
- 5) Measure the average throughput for a duration sufficient to achieve statistical significance according to clause G.2 of TS 136 521-1 [1].
- 6) Repeat steps from 3 to 5, using an interfering signal above the wanted signal at step 3.
- 7) Repeat for applicable test frequencies, channel bandwidths and operating band combinations.

Test Result

See Report PD20230175RF01 for test data.



4.1.7 Receiver spurious response

Limit

The throughput shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in TS 136 521-1 [1] with parameters specified in tables 4.2.8.2-1 and 4.2.8.2-2.

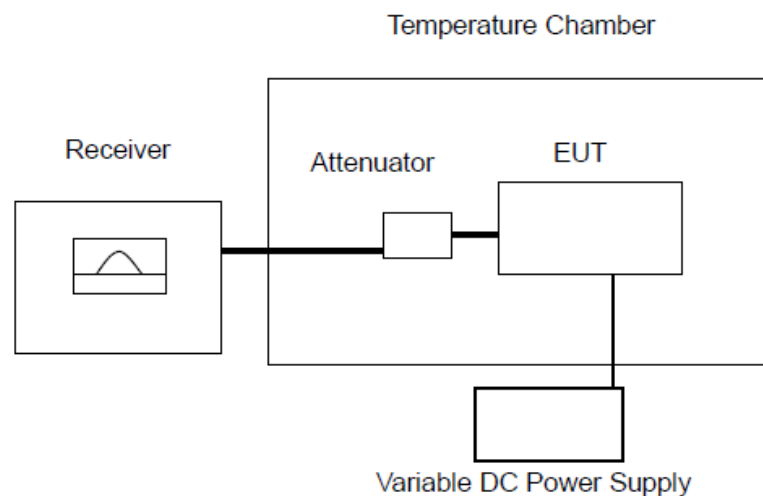
Table 4.2.8.2-1: Spurious response parameters

Rx Parameter	Units	Channel bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Power in Transmission	dBm	REFSENS + channel bandwidth specific value below					
Bandwidth Configuration		6	6	6	6	7	9
NOTE 1: The transmitter shall be set to 4 dB below $P_{\text{CMAX_L}}$ at the minimum uplink configuration specified in TS 136 101 [4] (table 7.3.1-2 with $P_{\text{CMAX_L}}$ as defined in clause 6.2.5).							
NOTE 2: Reference measurement channel is clause A.3.2 of TS 136 521-1 [1].							
NOTE 3: REFSENS as defined in TS 136 521-1 [1].							

Table 4.2.8.2-2: Spurious Response

Parameter	Unit	Level
$P_{\text{Interferer}}$ (CW)	dBm	-44
$F_{\text{Interferer}}$	MHz	Spurious response frequencies

Setup



Test Procedures

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to TS 136 521-1 [1], table 7.6.2.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 7.6.2.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the parameters of the CW signal generator for an interfering signal according to table 4.2.8.2-2. The spurious frequencies are taken from step 5) records in clause 5.3.6.1.2.
- 4) Set the downlink signal level according to the table 4.2.8.2-1. Send uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.8.2-1 for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0 \text{ GHz} < f \leq 4,2 \text{ GHz}$, for at least the duration of the throughput measurement as specified in TS 136 521-1 [1].
- 5) For the spurious frequency, measure the average throughput for a duration sufficient to achieve statistical significance.

Test Result

See Report PD20230175RF01 for test data.

4.1.8 Receiver intermodulation characteristics

Limit

The throughput shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in TS 136 521-1 [1] with parameters specified in table 4.2.9.2-1 for the specified wanted signal mean power in the presence of two interfering signals.

Table 4.2.9.2-1: Test parameters for Wide band intermodulation

Rx Parameter	Units	Channel bandwidth					
		1,4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Power in Transmission Bandwidth Configuration	dBm	REFSENS + channel bandwidth specific value below					
		12	8	6	6	7	9
$P_{\text{Interferer 1 (CW)}}$	dBm	-46					
$P_{\text{Interferer 2 (Modulated)}}$	dBm	-46					
$BW_{\text{Interferer 2}}$		1,4	3	5			
$F_{\text{Interferer 1 (Offset)}}$	MHz	-BW/2 - 2,1 / +BW/2 + 2,1	-BW/2 - 4,5 / +BW/2 + 4,5	-BW/2 - 7,5 / +BW/2 + 7,5			
$F_{\text{Interferer 2 (Offset)}}$	MHz	$2 \times F_{\text{Interferer 1}}$					
NOTE 1: The transmitter shall be set to 4 dB below $P_{\text{CMAX_L}}$ at the minimum uplink configuration specified in TS 136 101 [4] (table 7.3.1-2 with $P_{\text{CMAX_L}}$ as defined in clause 6.2.5).							
NOTE 2: Reference measurement channel is clause A.3.2 of TS 136 521-1 [1].							
NOTE 3: The modulated interferer consists of the Reference measurement channel specified in clause A.3.2 of TS 136 521-1 [1] with set-up according to clause C.3.1 of TS 136 521-1 [1]. The interfering modulated signal is 5 MHz E-UTRA signal as described in annex D for channel bandwidth ≥ 5 MHz.							
NOTE 4: REFSENS as defined in TS 136 521-1 [1].							

**Test Procedures**

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to TS 136 521-1 [1], table 7.8.1.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 7.8.1.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the Downlink signal level to the value as defined in table 4.2.9.2-1. Send uplink power control commands to the UE (less or equal to 1 dB step size should be used), to ensure that the UE output power is within +0, -3,4 dB of the target level in table 4.2.9.2-1 for carrier frequency $f \leq 3,0$ GHz or within +0, -4,0 dB of the target level for carrier frequency $3,0$ GHz $< f \leq 4,2$ GHz, for at least the duration of the throughput measurement as specified in TS 136 521-1 [1].
- 4) Set the Interfering signal levels to the values as defined in table 4.2.9.2-1, using a modulated interferer bandwidth as defined in annex D of TS 136 521-1 [1].
- 5) Measure the average throughput for a duration sufficient to achieve statistical significance according to clause G.2 of TS 136 521-1 [1].
- 6) Repeat for applicable test frequencies, channel bandwidths and operating band combinations.

Test Result

See Report PD20230175RF01 for test data.

4.1.9 Transmitter Adjacent Channel Leakage power Ratio

Limit

If the measured adjacent channel power is greater than -50 dBm then the measured E-UTRA_{ACLR} shall be higher than the limits in table 4.2.11.1.2-1.

Table 4.2.11.1.2-1: E-UTRA UE ACLR

	Channel bandwidth/E-UTRA _{ACLR1} /measurement bandwidth					
	1,4 MHz	3,0 MHz	5 MHz	10 MHz	15 MHz	20 MHz
E-UTRA_{ACLR1}	29,2 dB	29,2 dB	29,2 dB	29,2 dB	29,2 dB	29,2 dB
E-UTRA channel Measurement bandwidth	1,08 MHz	2,7 MHz	4,5 MHz	9,0 MHz	13,5 MHz	18 MHz
UE channel	+1,4 MHz or -1,4 MHz	+3 MHz or -3 MHz	+5 MHz or -5 MHz	+10 MHz or -10 MHz	+15 MHz or -15 MHz	+20 MHz or -20 MHz

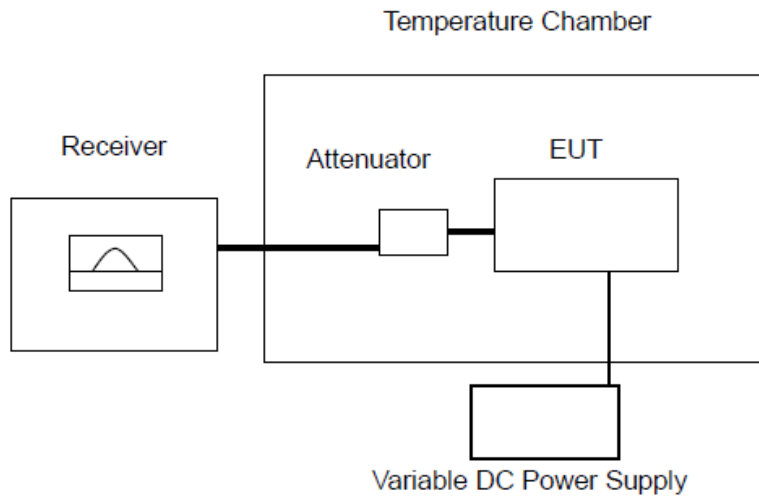
If the measured UTRA channel power is greater than -50 dBm then the measured UTRA_{ACLR1}, UTRA_{ACLR2} shall be higher than the limits in table 4.2.11.2-2.

Table 4.2.11.2-2: UTRA UE ACLR

	Channel bandwidth/UTRA _{ACLR1/2} /measurement bandwidth					
	1,4 MHz	3,0 MHz	5 MHz	10 MHz	15 MHz	20 MHz
UTRA_{ACLR1}	32,2 dB	32,2 dB	32,2 dB	32,2 dB	32,2 dB	32,2 dB
Adjacent channel centre frequency offset (in MHz)	0,7 + BW _{UTRA} /2 / -0,7 - BW _{UTRA} /2	1,5 + BW _{UTRA} /2 / -1,5 - BW _{UTRA} /2	2,5 + BW _{UTRA} /2 / -2,5 - BW _{UTRA} /2	5 + BW _{UTRA} /2 / -5 - BW _{UTRA} /2	7,5 + BW _{UTRA} /2 / -7,5 - BW _{UTRA} /2	10 + BW _{UTRA} /2 / -10 - BW _{UTRA} /2
UTRA_{ACLR2}	-	-	35,2 dB	35,2 dB	35,2 dB	35,2 dB
Adjacent channel centre frequency offset (in MHz)	-	-	2,5 + 3 x BW _{UTRA} /2 / -2,5 - 3 x BW _{UTRA} /2	5 + 3 x BW _{UTRA} /2 / -5 - 3 x BW _{UTRA} /2	7,5 + 3 x BW _{UTRA} /2 / -7,5 - 3 x BW _{UTRA} /2	10 + 3 x BW _{UTRA} /2 / -10 - 3 x BW _{UTRA} /2
E-UTRA channel Measurement bandwidth	1,08 MHz	2,7 MHz	4,5 MHz	9,0 MHz	13,5 MHz	18 MHz
UTRA 5 MHz channel Measurement bandwidth (see note 1)	3,84 MHz	3,84 MHz	3,84 MHz	3,84 MHz	3,84 MHz	3,84 MHz
UTRA 1,6 MHz channel measurement bandwidth (see note 2)	1,28 MHz	1,28 MHz	1,28 MHz	1,28 MHz	1,28 MHz	1,28 MHz

NOTE 1: Applicable for E-UTRA FDD co-existence with UTRA FDD in paired spectrum.
 NOTE 2: Applicable for E-UTRA TDD co-existence with UTRA TDD in unpaired spectrum.
 NOTE 3: BW_{UTRA} for UTRA FDD is 5 MHz and for UTRA TDD is 1,6 MHz.

Setup



Test Procedures

- 1) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to TS 136 521-1 [1], table 6.6.2.3.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 2) Send continuous uplink power control "up" commands in the uplink scheduling information to the UE to ensure that the UE transmits at P_{UMAX} level.
- 3) Measure the mean power of the UE in the channel bandwidth of the radio access mode according to the test configuration, which shall meet the requirements described in tables 4.2.11.1.2-1 and 4.2.11.1.2-2. The period of the measurement shall be at least the continuous duration of one sub-frame (1 ms). For TDD slots with transient periods are not under test.
- 4) Measure the filtered mean power for E-UTRA.
- 5) Measure the filtered mean power of the first E-UTRA adjacent channel.
- 6) Measure the RRC filtered mean power of the first and the second UTRA adjacent channel.
- 7) Calculate the ratio of the power between the values measured in step 4) over step 5) for E-UTRAACLR.
- 8) Calculated the ratio of the power between the values measured in step 4) over step 6) for UTRAACLR1, UTRAACLR2.
- 9) Repeat for applicable test frequencies, channel bandwidths, operating band combinations and environmental conditions.

Test Result

See Report PD20230175RF01 for test data.

4.1.10 Receiver Reference Sensitivity Level

Limit

The throughput shall be $\geq 95\%$ of the maximum throughput of the reference measurement channels as specified in ETSI TS 136 521-1 [1], clauses A.2.2, A.2.3 and A.3.2 (with one sided dynamic OCNG Pattern OP.1 FDD/TDD for the DL-signal as described in ETSI TS 136 521-1 [1], clauses A.5.1.1/A.5.2.1) with parameters specified in table 4.2.12.1.2-1 and table 7.3.3-2.

Table 4.2.12.1.2-1: Reference sensitivity QPSK P_{REFSENS}

E-UTRA Band	Channel bandwidth						Duplex Mode
	1,4 MHz (dBm)	3 MHz (dBm)	5 MHz (dBm)	10 MHz (dBm)	15 MHz (dBm)	20 MHz (dBm)	
1	-	-	-99,3	-96,3	-94,5	-93,3	FDD
3	-101,0	-98,0	-96,3	-93,3	-91,5	-90,3	FDD
7	-	-	-97,3	-94,3	-92,5	-91,3	FDD
8	-101,5	-98,5	-96,3	-93,3	-	-	FDD
20	-	-	-96,3	-93,3	-90,5	-89,3	FDD
22	-	-	-96,0	-93,0	-91,2	-90,0	FDD
28	-	-99,5	-97,8	-94,8	-93,0	-90,3	FDD
33	-	-	-99,3	-96,3	-94,5	-93,3	TDD
34	-	-	-99,3	-96,3	-94,5	-	TDD
38	-	-	-99,3	-96,3	-94,5	-93,3	TDD
40	-	-	-99,3	-96,3	-94,5	-93,3	TDD
42	-	-	-98,0	-95,0	-93,2	-92,0	TDD
43	-	-	-98,0	-95,0	-93,2	-92,0	TDD

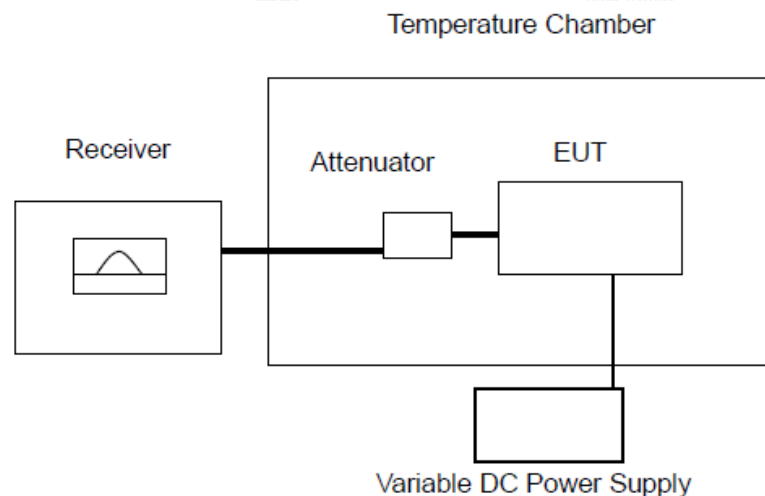
NOTE 1: The transmitter shall be set to maximum output power level (ETSI TS 136 521-1 [1], table 7.3.5-2).

NOTE 2: The reference measurement channel is specified in ETSI TS 136 521-1 [1], clause A.3.2 with one sided dynamic OCNG Pattern OP.1 FDD/TDD as described in ETSI TS 136 521-1 [1], clauses A.5.1.1/A.5.2.1.

NOTE 3: The signal power is specified per port.

The reference receive sensitivity (REFSENS) requirement specified in table 4.2.12.1.2-1 shall be met for an uplink transmission bandwidth less than or equal to that specified in ETSI TS 136 521-1 [1], table 7.3.5-2.

Setup



Test Procedures

- 1) SS transmits PDSCH via PDCCH DCI format 1A for C_RNTI to transmit the DL RMC according to ETSI TS 136 521-1 [1], table 7.3.4.1-1. The SS sends downlink MAC padding bits on the DL RMC.
- 2) SS sends uplink scheduling information for each UL HARQ process via PDCCH DCI format 0 for C_RNTI to schedule the UL RMC according to ETSI TS 136 521-1 [1], table 7.3.4.1-1. Since the UE has no payload data to send, the UE transmits uplink MAC padding bits on the UL RMC.
- 3) Set the Downlink signal level to the appropriate REFSENS value defined in table 4.2.12.1.2-1. Send continuously uplink power control "up" commands in the uplink scheduling information to the UE to ensure the UE transmits PUMAX level for at least the duration of the Throughput measurement. (obtain correct UE output power as specified in ETSI TS 136 521-1 [1]).
- 4) Measure the average throughput for a duration sufficient to achieve statistical significance according to clause G.2 of ETSI TS 136 521-1 [1].
- 5) Repeat for applicable test frequencies, channel bandwidths and operating bands.
Details of the test method can be found in ETSI TS 136 521-1 [1], clause 7.3.

Test Result

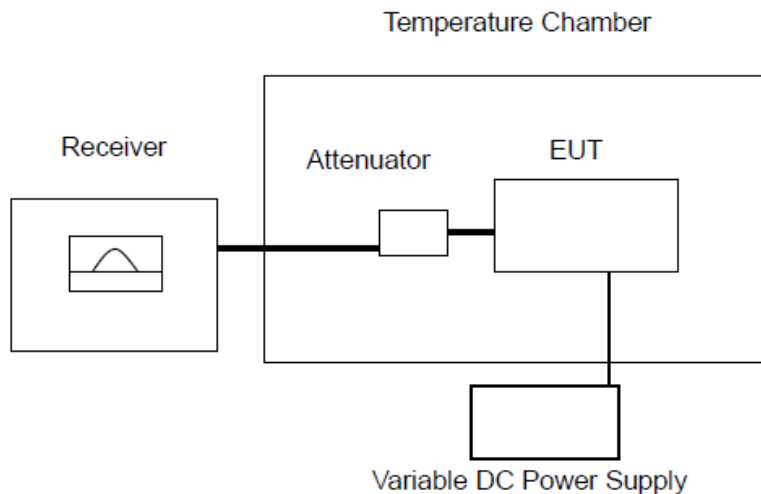
See Report PD20230175RF01 for test data.

4.1.11 Control and monitoring functions (UE)

Limit

The maximum measured power during the duration of the test shall not exceed -30 dBm.

Setup



Test Procedures

At the start of the test, the UE shall be switched off. The UE antenna connector shall be connected to a power measuring equipment, with the following characteristics:

- the RF bandwidth shall exceed the total operating transmit frequency range of the UE for operation with an applicable part;
- the response time of the power measuring equipment shall be such that the measured power has reached within 1 dB of its steady state value within 100 μ s of a CW signal being applied;
- it shall record the maximum power measured.

NOTE:

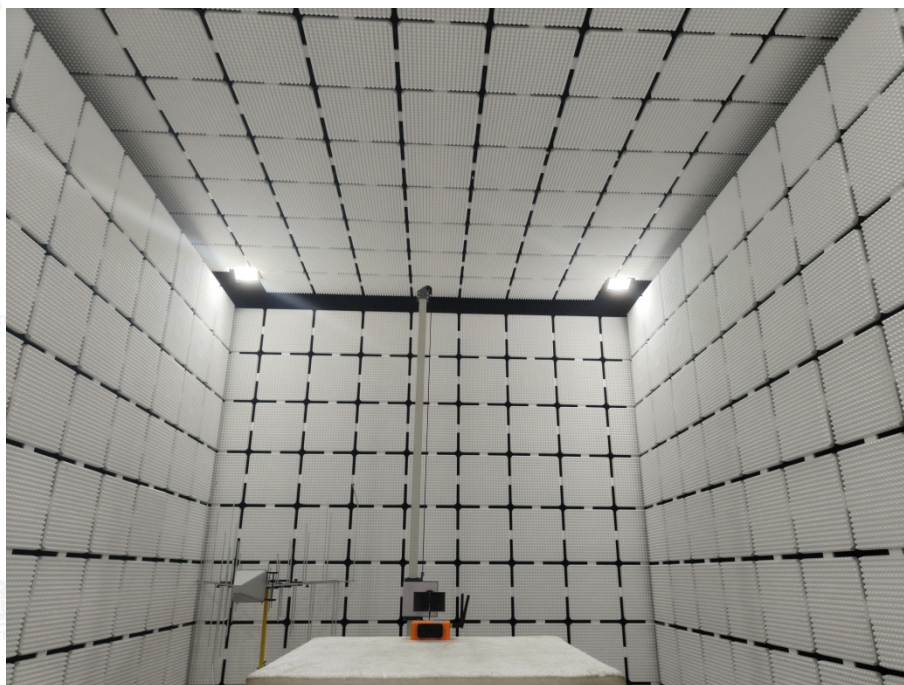
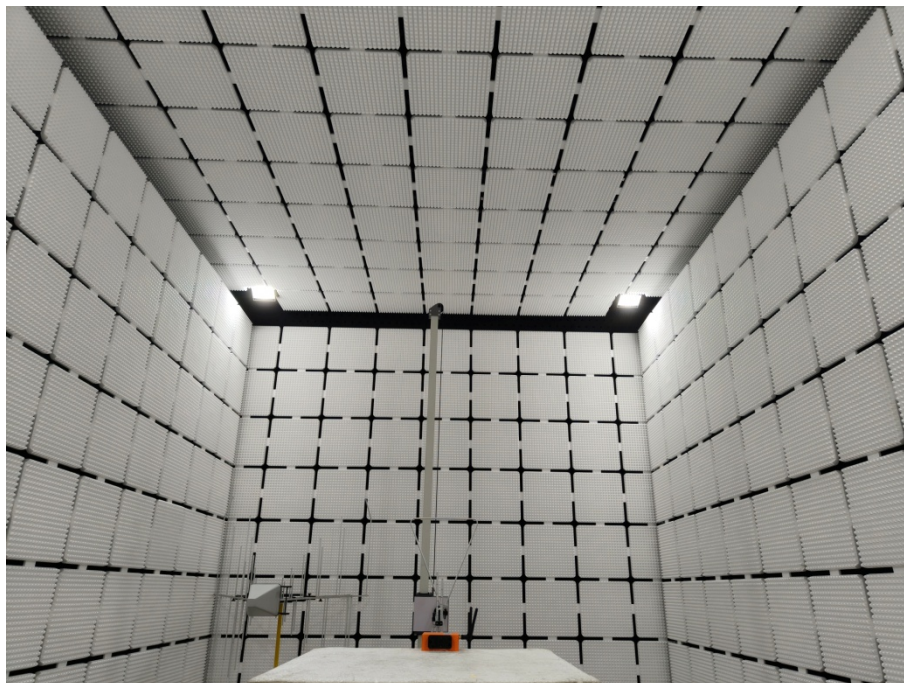
The equipment may include a video low pass filter to minimize its response to transients or Gaussian noise peaks.

- b) The UE shall be switched on for a period of approximately fifteen minutes, and then switched off.
 - c) The EUT shall remain switched off for a period of at least thirty seconds, and shall then be switched on for a period of approximately one minute.
 - d) The maximum power emitted from the UE throughout the duration of the test shall be recorded.
- The results obtained shall be compared to the limits in clause 4.2.4.2 in order to prove compliance.

Test Result

See Report PD20230175RF01 for test data.

5. Test Set-up Photos of the EUT

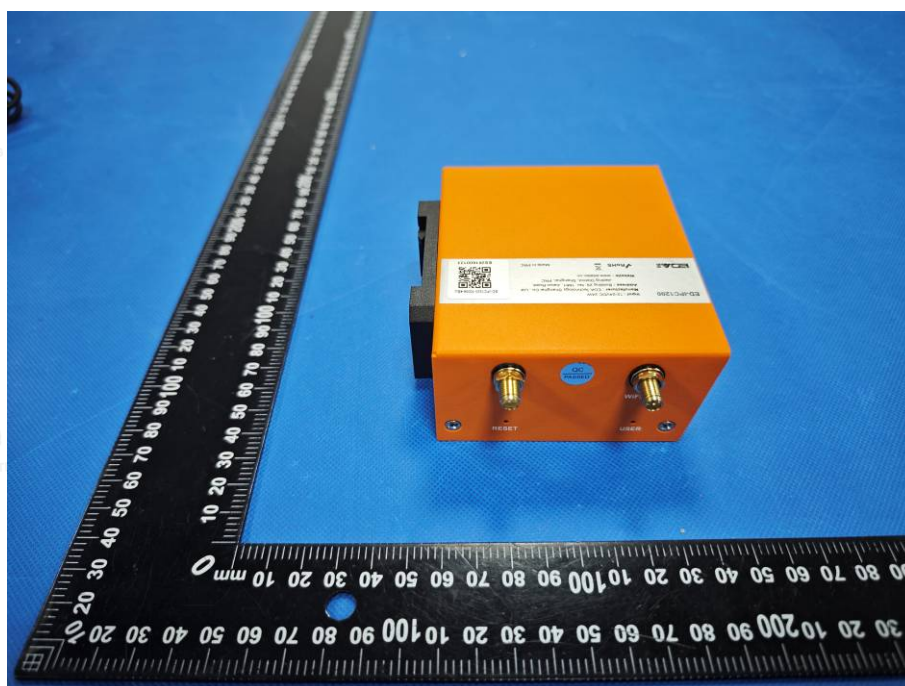
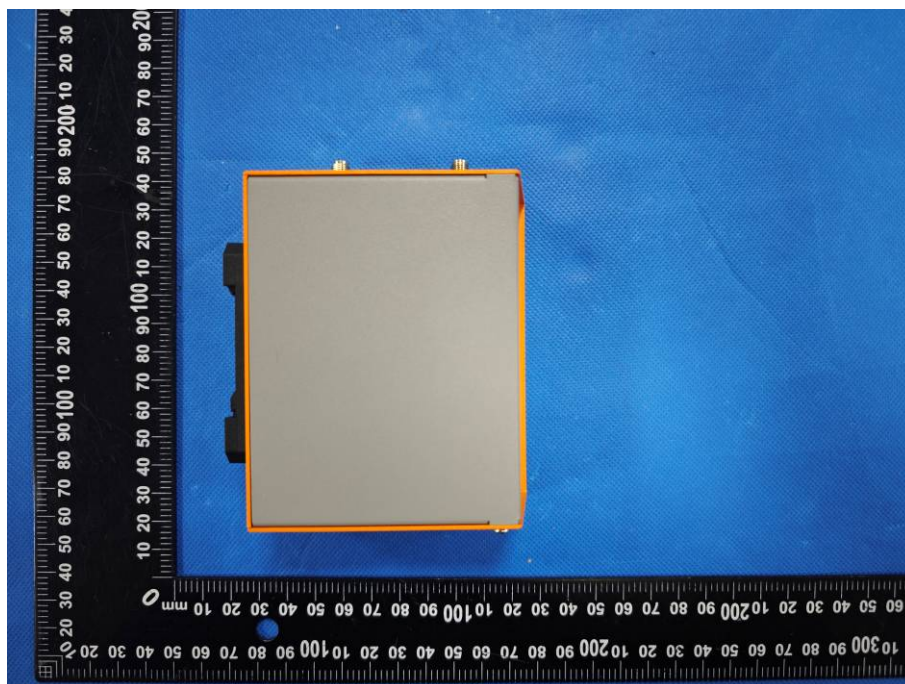


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6. External and Internal Photos of the EUT

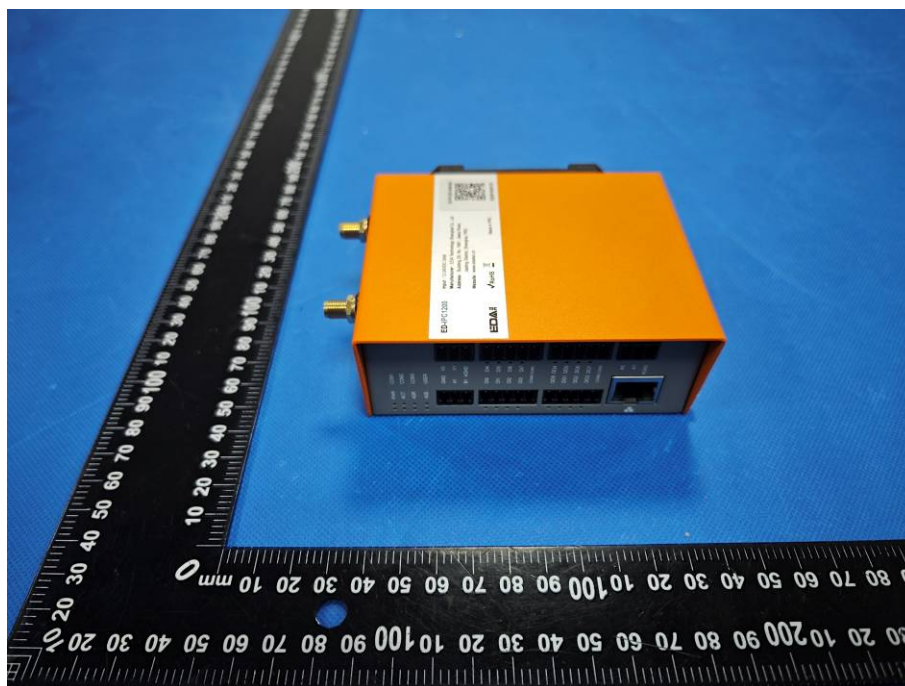




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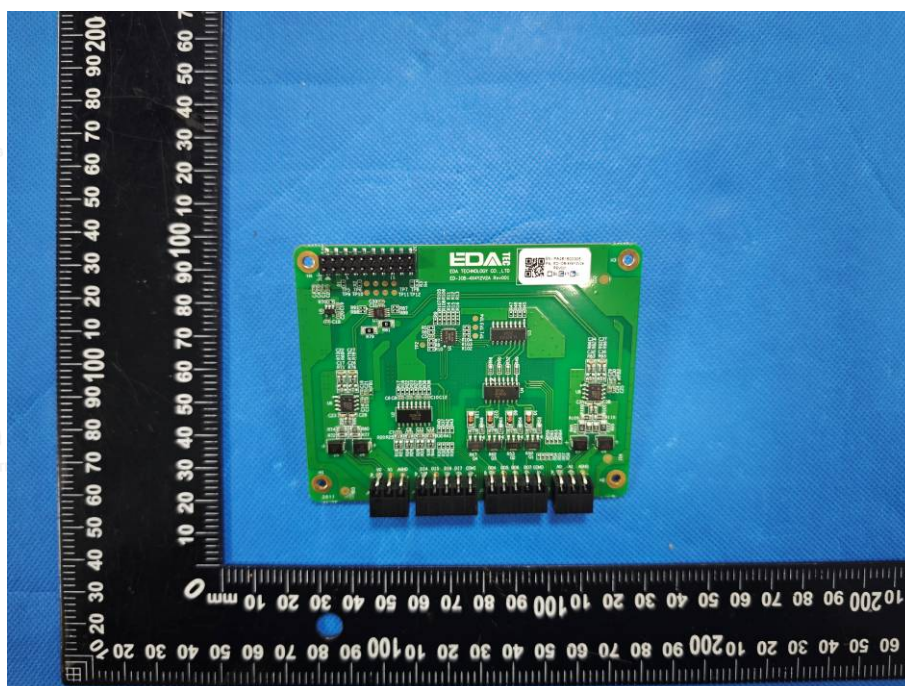
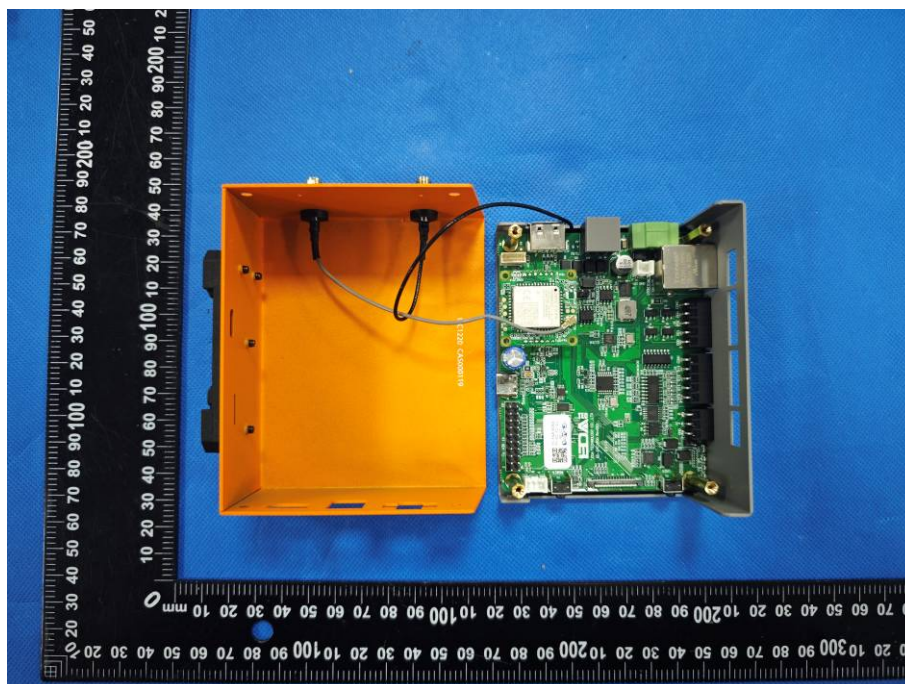
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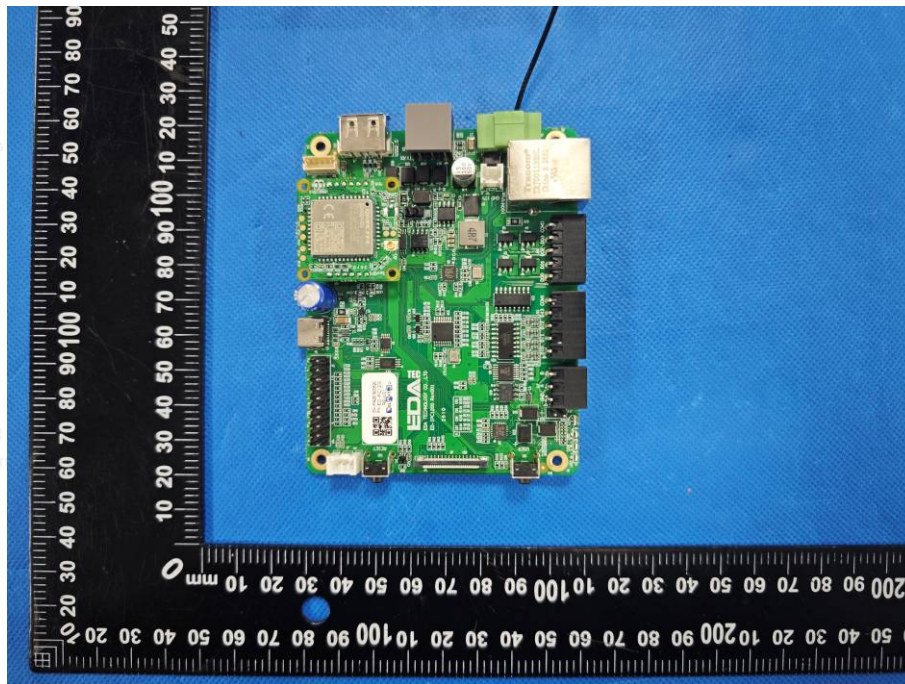
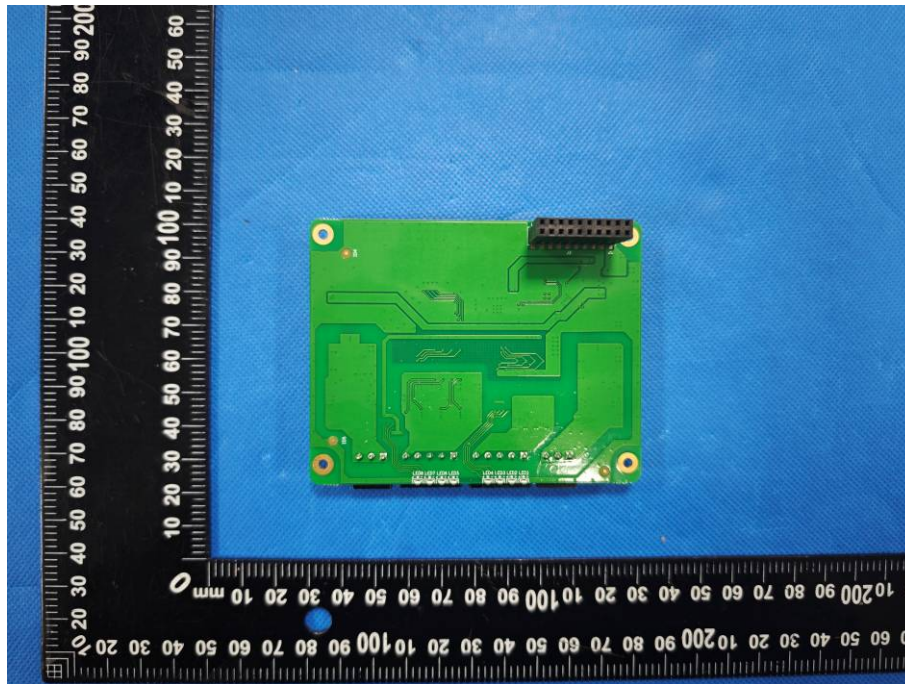
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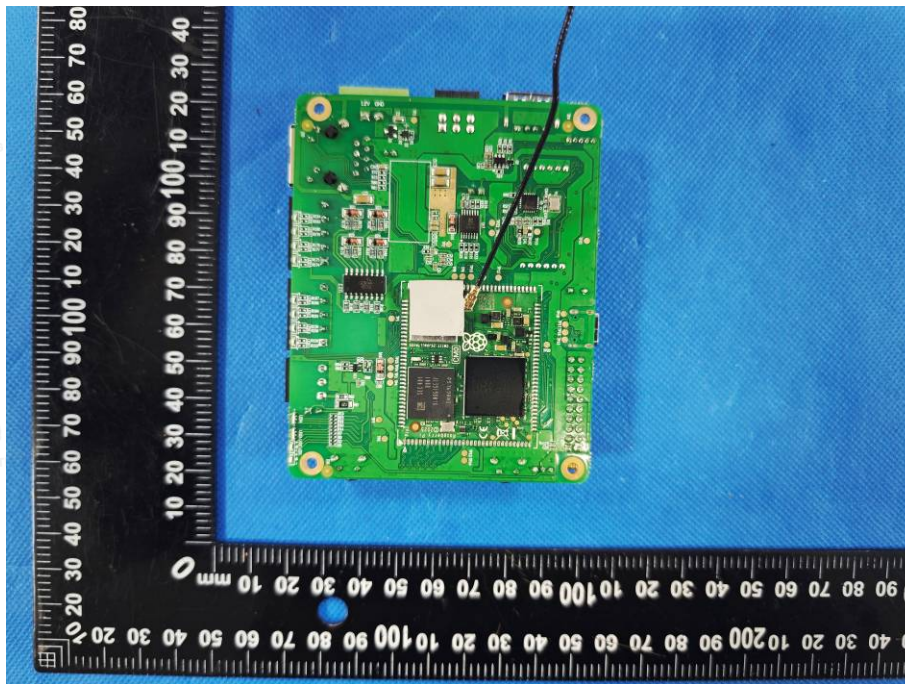
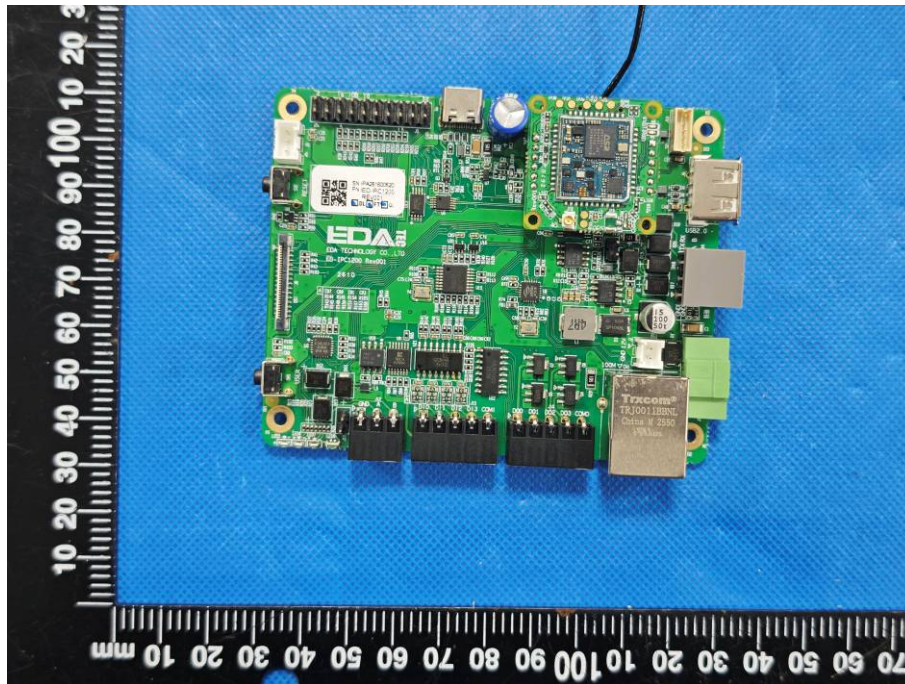
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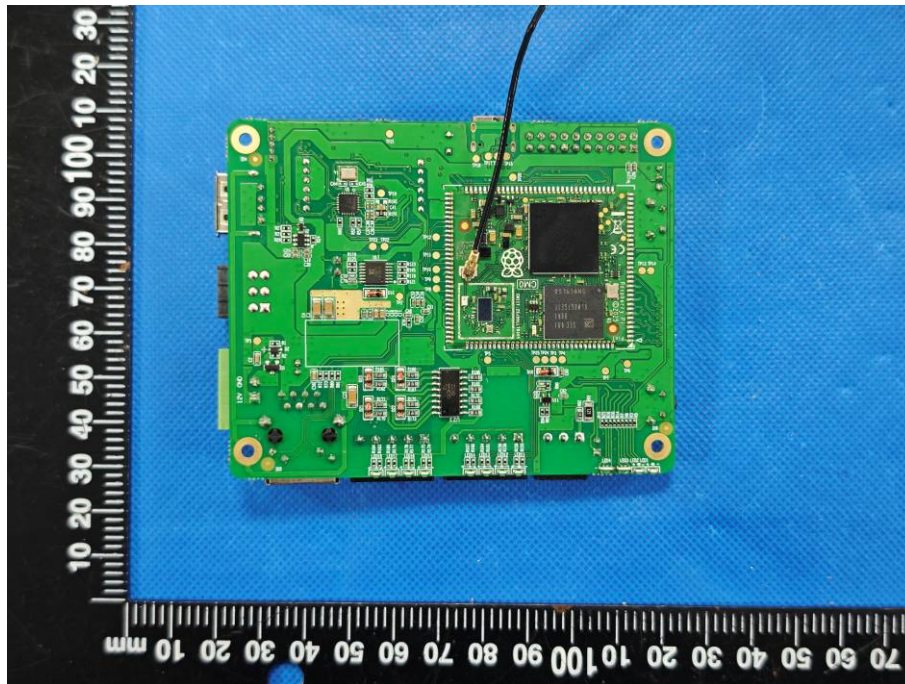
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