



FCC RADIO TEST REPORT

FCC ID : B94HNI61PAR
Equipment : Notebook Computer
Brand Name : HP
Model Name : HSN-I61C
Applicant : HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)

The product was received on Sep. 09, 2024 and testing was performed from Sep. 28, 2024 to Nov. 06, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	6
1.1 Product Feature of Equipment Under Test.....	6
1.2 Modification of EUT	8
1.3 Testing Location	8
1.4 Applicable Standards.....	8
2 Test Configuration of Equipment Under Test	9
2.1 Test Mode.....	9
2.2 Connection Diagram of Test System.....	10
2.3 Support Unit used in test configuration and system	10
2.4 Frequency List of Low/Middle/High Channels	11
3 Conducted Test Items.....	17
3.1 Measuring Instruments	17
3.2 Conducted Output Power and ERP/EIRP	18
4 Radiated Test Items	19
4.1 Measuring Instruments	19
4.2 Radiated Spurious Emission Measurement	21
5 List of Measuring Equipment.....	23
6 Measurement Uncertainty	24
Appendix A. Test Results of Conducted Test	
Appendix B. Test Results of Radiated Test	
Appendix C. Test Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FG490505B	01	Initial issue of report	Nov. 20, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5) §90.635	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 85)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
	§90.542 (a)(7)	Effective Radiated Power (Band 14)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	See Note
-	§2.1049	Occupied Bandwidth	Pass	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 85)	Pass	See Note
	§2.1051 §90.543 (e)(2)	Conducted Band Edge Measuremen (Band 14)		
-	§2.1051 §90.210 (n)	Emission Mask (Band 14)	Pass	See Note
	§2.1051 §90.691	Emission masks (Band 26)		



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h) §90.691	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 85)	Pass	See Note
	§2.1051 §90.543 (e)(3)	Conducted Spurious Emission (Band 14)		
-	§2.1055 §22.355 §24.235 §27.54 §90.539 (e) §90.213	Frequency Stability Temperature & Voltage	Pass	See Note
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h) §90.691	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 85)	Pass	1.90 dB under the limit at 2352.00 MHz
	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (Band 14)		

Remark:

1. For host device, Radiated Spurious Emission, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
2. For host device, the Conducted Output Power is no difference after compared to module (Model: TX520-GL)

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sheng Kuo**Report Producer: Michelle Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	GSM/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11ax/be, NFC, and GNSS
Sample 1	EUT with Vendor 2 Antenna
Sample 2	EUT with Vendor 1 Antenna
Integrated WWAN Module	Brand Name: Rolling Wireless Model Name: TX520-GL FCC ID: 2BF7TTX520GL
Integrated WLAN Module	Brand Name: Intel Model Name: BE201NGW FCC ID: PD9BE201NG
Integrated NFC Module	Brand Name: WNC Model Name: XRAV-1 FCC ID: NKR-XRAV1
Antenna Type	WWAN: PIFA Antenna WLAN: <Main>: PIFA Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/BDS/Galileo: PIFA Antenna NFC: Loop Antenna

Support band and evaluated information	
Supported band	B2, B4, B5, B12, B13, B14, B25, B26, B66, B85
Evaluated and Tested band	B2, B4, B5, B12, B13, B14, B25, B26, B66, B85
Band covered information	Wider operating frequency band range covers narrower one when the power is worse as follows: ■ B26 cover B5
Ant5 Antenna	B2, B4, B5, B12, B13, B14, B25, B26, B66, B85

WWAN Antenna Information for Notebook Mode				
Antenna 5	Manufacturer	Vendor 2	Peak gain (dBi)	LTE Band 2 : 0.43 LTE Band 4 : -1.13 LTE Band 5 : -2.74 LTE Band 12 : -0.62 LTE Band 13 : -1.43 LTE Band 14 : -2.55 LTE Band 25 : 0.43 LTE Band 26 : -2.71 LTE Band 66 : -1.13 LTE Band 85 : -0.62
	Part number	6036B0361301 (81ELBF15.G04)	Type	PIFA
	Manufacturer	Vendor 1	Peak gain (dBi)	LTE Band 2 : -0.50 LTE Band 4 : -0.28 LTE Band 5 : 0.71 LTE Band 12 : 0.47 LTE Band 13 : 1.45 LTE Band 14 : 1.43 LTE Band 25 : -0.50 LTE Band 26 : 0.47 LTE Band 66 : 0.08 LTE Band 85 : 0.46
	Part number	6036B0361401 (00-350270155N)	Type	PIFA

WWAN Antenna Information for Tablet Mode				
Antenna 5	Manufacturer	Vendor 2	Peak gain (dBi)	LTE Band 2 : -1.32 LTE Band 4 : -2.68 LTE Band 5 : -4.14 LTE Band 12 : -5.88 LTE Band 13 : -4.25 LTE Band 14 : -5.14 LTE Band 25 : -1.32 LTE Band 26 : -4.14 LTE Band 66 : -2.68 LTE Band 85 : -5.88
	Part number	6036B0361301 (81ELBF15.G04)	Type	PIFA
	Manufacturer	Vendor 1	Peak gain (dBi)	LTE Band 2 : -1.68 LTE Band 4 : -1.88 LTE Band 5 : -3.33 LTE Band 12 : -4.67 LTE Band 13 : -4.66 LTE Band 14 : -4.66 LTE Band 25 : -1.68 LTE Band 26 : -3.87 LTE Band 66 : -1.87 LTE Band 85 : -4.67
	Part number	6036B0361401 (00-350270155N)	Type	PIFA

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH03-HY	03CH07-HY
Test Engineer	Chris Chiu	Jesse Wang, Stan Hsieh and Ken Wu
Temperature (°C)	22.3~22.9	22.1~26.3
Relative Humidity (%)	52.3~55.5	53.4~65.8

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

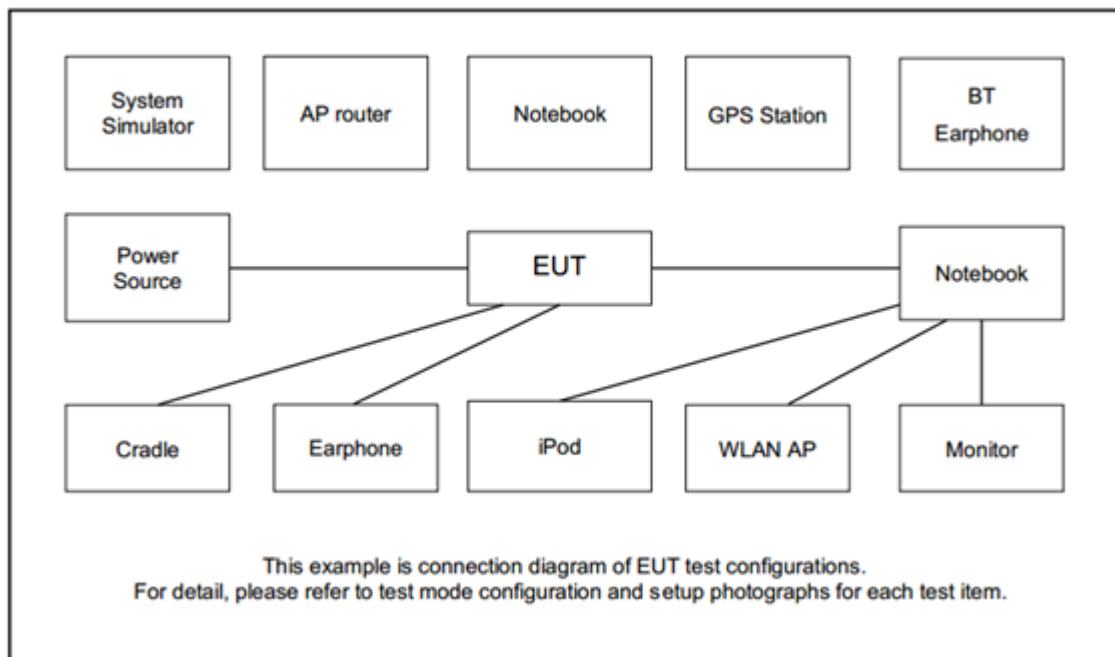
Modulation Type	Modulation
A	QPSK
B	16QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B	All	1, Half, Full	L, M, H
EIRP	A, B	All	1, Half, Full	L, M, H
RSE	A	20 MHz or less	1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. During the RSE preliminary test, the standalone mode and charging modes were verified. It is determined that the charging modes is the worst case for the official test.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Shielded, 1.2 m	N/A



2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3



LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 14 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5



LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List (Part22H)				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	Channel/Frequency(MHz)	cross-rule channels		
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-
3	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 85 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	134052	134092	134132
	Frequency	703	707	711
5	Channel	134027	134092	134157
	Frequency	700.5	707	713.5

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, Band 26 (Part 22H)

The output power of mobile transmitters must not exceed 100 Watts for LTE Band 26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13, Band 14, Band 85

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 25

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, Band 66, Band 42, Band 43

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

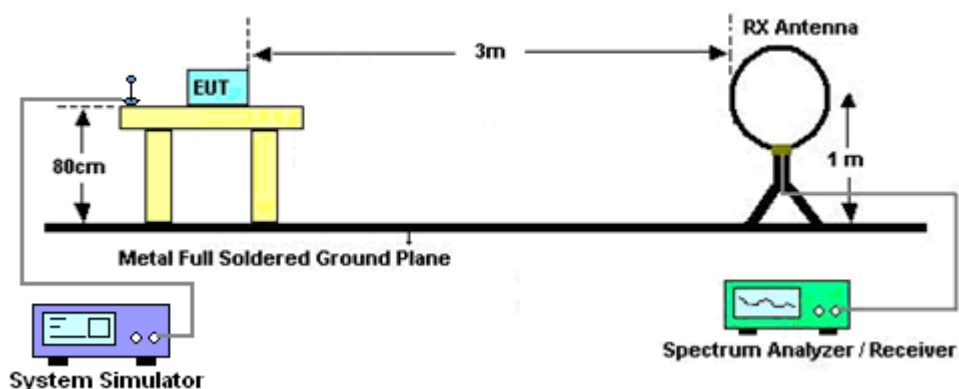
4 Radiated Test Items

4.1 Measuring Instruments

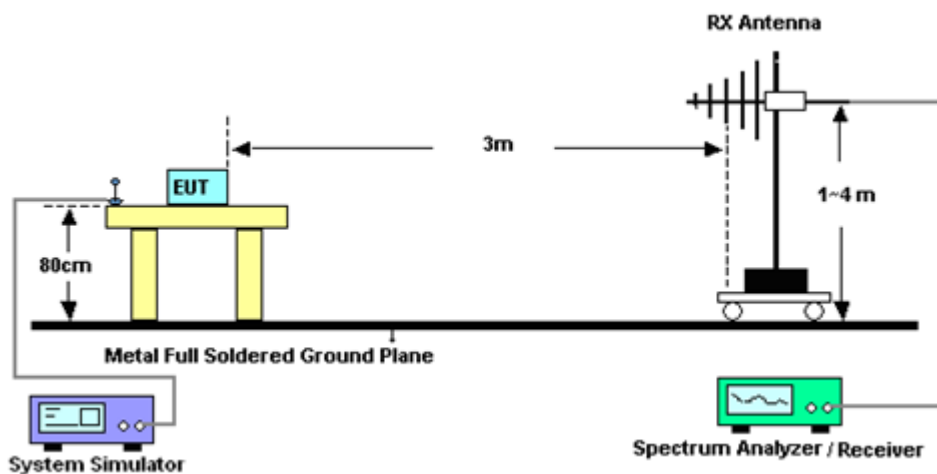
See list of measuring instruments of this test report.

4.1.1 Test Setup

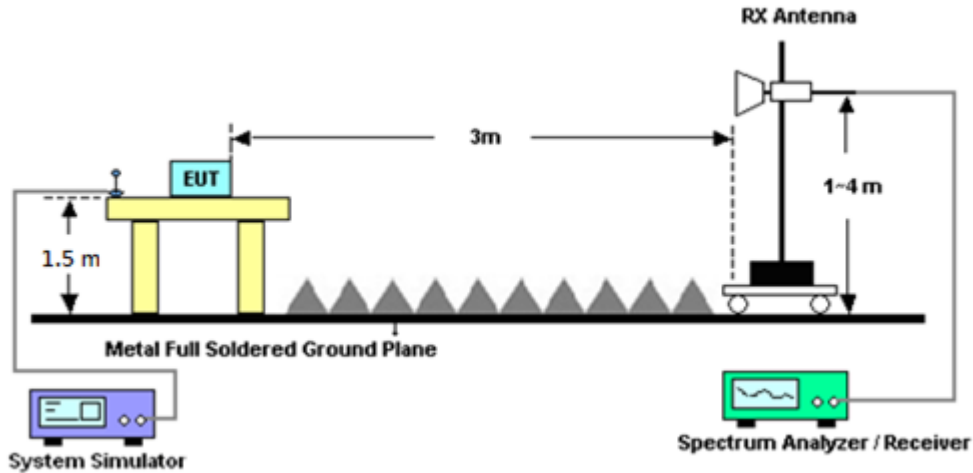
For radiated test below 30MHz



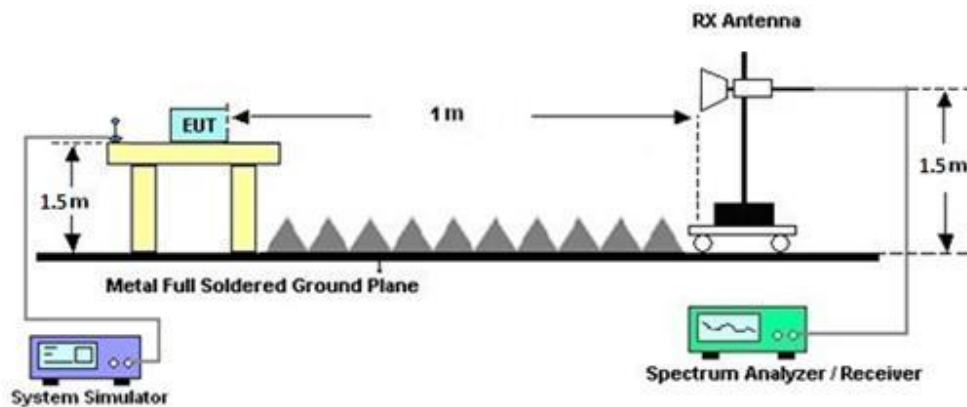
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.



4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Sep. 28, 2024~ Oct. 30, 2024	Apr. 21, 2025	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 27, 2023	Sep. 28, 2024~ Oct. 30, 2024	Nov. 26, 2024	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Sep. 28, 2024~ Oct. 30, 2024	Feb. 22, 2025	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010180 0-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Sep. 28, 2024~ Oct. 30, 2024	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 23, 2024	Sep. 28, 2024~ Oct. 30, 2024	Mar. 22, 2025	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 05, 2024	Sep. 28, 2024~ Oct. 30, 2024	Aug. 04, 2025	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 26, 2024	Sep. 28, 2024~ Oct. 30, 2024	Mar. 25, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 21, 2024	Sep. 28, 2024~ Oct. 30, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 21, 2024	Sep. 28, 2024~ Oct. 30, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 14, 2024	Sep. 28, 2024~ Oct. 30, 2024	Sep. 13, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 21, 2024	Sep. 28, 2024~ Oct. 30, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Sep. 28, 2024~ Oct. 30, 2024	Apr. 21, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Sep. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Sep. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Sep. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Sep. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Sep. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 01, 2024	Sep. 28, 2024~ Oct. 30, 2024	Feb. 28, 2025	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 24, 2023	Sep. 28, 2024~ Oct. 30, 2024	Nov. 23, 2024	Radiation (03CH07-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 01, 2024	Nov. 04, 2024~ Nov. 06, 2024	Sep. 30, 2025	Conducted (TH03-HY)
Coupler+10dB+ Rf cable	Warison + WoKen + E-Instument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+SFL 405_1.5M	#A+#1+#1+#7	1-18GHz	Jan. 02, 2024	Nov. 04, 2024~ Nov. 06, 2024	Jan. 01, 2025	Conducted (TH03-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Nov. 04, 2024~ Nov. 06, 2024	N/A	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP210073	-10 ~ 50°C / 20 ~ 95%RH	Jun. 05, 2024	Nov. 04, 2024~ Nov. 06, 2024	Jun. 04, 2025	Conducted (TH03-HY)



6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.291 dB
---	----------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.076 dB
---	----------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.083 dB
---	----------



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.43 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.06	20.23	20.15	20.66	0.1164
20	1	0	16-QAM	20.08	20.09	20.16	20.59	0.1146
15	1	0	QPSK	20.04	20.12	20.08	20.55	0.1135
15	1	0	16-QAM	20.03	20.06	20.10	20.53	0.1130
10	1	0	QPSK	20.03	20.16	20.07	20.59	0.1146
10	1	0	16-QAM	20.07	20.06	20.09	20.52	0.1127
5	1	0	QPSK	20.05	20.15	20.06	20.58	0.1143
5	1	0	16-QAM	20.03	20.01	20.13	20.56	0.1138
3	1	0	QPSK	20.00	20.10	20.10	20.53	0.1130
3	1	0	16-QAM	19.25	19.19	19.30	19.73	0.0940
1.4	1	0	QPSK	20.05	20.13	20.11	20.56	0.1138
1.4	1	0	16-QAM	19.28	19.22	19.35	19.78	0.0951
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.43 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.16	20.21	20.16	20.64	0.1159
20	1	0	16-QAM	20.10	20.19	20.17	20.62	0.1153
15	1	0	QPSK	20.07	20.11	20.09	20.54	0.1132
15	1	0	16-QAM	20.00	20.16	20.11	20.59	0.1146
10	1	0	QPSK	20.14	20.18	20.07	20.61	0.1151
10	1	0	16-QAM	20.05	20.12	20.12	20.55	0.1135
5	1	0	QPSK	20.14	20.20	20.12	20.63	0.1156
5	1	0	16-QAM	20.07	20.18	20.09	20.61	0.1151
3	1	0	QPSK	20.06	20.14	20.12	20.57	0.1140
3	1	0	16-QAM	19.25	19.37	19.31	19.80	0.0955
1.4	1	0	QPSK	20.10	20.10	20.14	20.57	0.1140
1.4	1	0	16-QAM	19.21	19.37	19.34	19.80	0.0955
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.28 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.15	20.82	20.59	20.54	0.1132
20	1	0	16-QAM	20.63	20.81	20.47	20.53	0.1130
15	1	0	QPSK	20.14	20.58	20.53	20.30	0.1072
15	1	0	16-QAM	20.60	20.74	20.39	20.46	0.1112
10	1	0	QPSK	20.07	20.60	20.49	20.32	0.1076
10	1	0	16-QAM	20.61	20.78	20.47	20.50	0.1122
5	1	0	QPSK	20.15	20.55	20.59	20.31	0.1074
5	1	0	16-QAM	20.57	20.76	20.46	20.48	0.1117
3	1	0	QPSK	20.10	20.53	20.58	20.30	0.1072
3	1	0	16-QAM	19.74	20.47	20.43	20.19	0.1045
1.4	1	0	QPSK	20.05	20.54	20.56	20.28	0.1067
1.4	1	0	16-QAM	19.74	20.43	20.38	20.15	0.1035
Limit	EIRP < 1W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	20.08	20.31	20.14	18.87	0.0771
10	1	0	16-QAM	20.27	20.30	20.16	18.86	0.0769
5	1	0	QPSK	20.05	20.21	20.10	18.77	0.0753
5	1	0	16-QAM	20.22	20.29	20.15	18.85	0.0767
3	1	0	QPSK	20.03	20.15	20.04	18.71	0.0743
3	1	0	16-QAM	19.37	19.42	19.26	17.98	0.0628
1.4	1	0	QPSK	20.05	20.15	20.09	18.71	0.0743
1.4	1	0	16-QAM	19.44	19.46	19.30	18.02	0.0634
Limit	ERP < 7W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	20.27	20.60	20.15	18.92	0.0780
10	1	0	16-QAM	20.30	20.59	20.35	18.91	0.0778
5	1	0	QPSK	20.22	20.25	20.14	18.57	0.0719
5	1	0	16-QAM	20.20	20.21	20.23	18.55	0.0716
3	1	0	QPSK	20.25	20.26	20.12	18.58	0.0721
3	1	0	16-QAM	19.86	19.78	19.46	18.18	0.0658
1.4	1	0	QPSK	20.21	20.28	20.11	18.60	0.0724
1.4	1	0	16-QAM	19.86	19.77	19.53	18.18	0.0658
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = 1.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	20.18	-	19.48	0.0887
10	1	0	16-QAM		20.15		19.45	0.0881
5	1	0	QPSK	20.07	20.17	20.15	19.47	0.0885
5	1	0	16-QAM	20.11	20.15	20.14	19.45	0.0881
Limit	ERP < 3W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	18.59	18.67	18.59	16.99	0.0500
15	1	0	16-QAM	18.55	18.57	18.64	16.96	0.0497
10	1	0	QPSK	18.48	18.53	18.39	16.85	0.0484
10	1	0	16-QAM	18.40	18.39	18.45	16.77	0.0475
5	1	0	QPSK	18.39	18.53	18.49	16.85	0.0484
5	1	0	16-QAM	18.35	18.37	18.54	16.86	0.0485
3	1	0	QPSK	18.47	18.53	18.40	16.85	0.0484
3	1	0	16-QAM	18.37	18.39	18.51	16.83	0.0482
1.4	1	0	QPSK	18.39	18.55	18.49	16.87	0.0486
1.4	1	0	16-QAM	18.37	18.41	18.48	16.80	0.0479
Limit	ERP < 7W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.18	20.53	20.11	20.61	0.1151
20	1	0	16-QAM	20.30	20.52	20.22	20.60	0.1148
15	1	0	QPSK	20.09	20.45	20.11	20.53	0.1130
15	1	0	16-QAM	20.24	20.45	20.12	20.53	0.1130
10	1	0	QPSK	20.15	20.45	20.05	20.53	0.1130
10	1	0	16-QAM	20.24	20.44	20.18	20.54	0.1132
5	1	0	QPSK	20.14	20.46	20.07	20.54	0.1132
5	1	0	16-QAM	20.21	20.45	20.14	20.54	0.1132
3	1	0	QPSK	20.16	20.46	20.04	20.54	0.1132
3	1	0	16-QAM	19.40	19.67	19.36	20.54	0.1132
1.4	1	0	QPSK	20.11	20.46	20.01	20.54	0.1132
1.4	1	0	16-QAM	19.44	19.70	19.40	19.78	0.0951
Limit	EIRP < 1W			Result			Pass	



LTE Band 85 Maximum Average Power [dBm] (GT - LC = 0.46 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	20.13	20.23	20.21	18.54	0.0714
10	1	0	16-QAM	20.19	20.22	20.15	18.53	0.0713
5	1	0	QPSK	20.21	20.13	20.16	18.52	0.0711
5	1	0	16-QAM	20.15	20.18	20.15	18.49	0.0706
Limit	ERP < 3W			Result			Pass	

LTE Band 14 Maximum Average Power [dBm] (GT - LC = 1.43 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	20.22	-	19.50	0.0891
10	1	0	16-QAM		20.17		19.45	0.0881
5	1	0	QPSK	20.07	20.07	20.03	19.43	0.0877
5	1	0	16-QAM	20.12	20.15	20.10	19.43	0.0877
Limit	ERP < 3W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG490505B

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	20.18	-	18.50	0.0708
10	1	0	16-QAM	-	20.17	-		
5	1	0	QPSK	20.09	20.05	20.13	18.45	0.0700
5	1	0	16-QAM	20.08	20.07	20.08		
3	1	0	QPSK	20.10	20.03	20.11	18.43	0.0697
3	1	0	16-QAM	19.28	19.35	19.27		
1.4	1	0	QPSK	20.13	20.10	20.03	18.45	0.0700
1.4	1	0	16-QAM	19.29	19.33	19.34		
Limit	ERP < 100W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG490505B

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	19.94	-	18.26	0.0670
10	1	0	16-QAM	-	19.92	-		
5	1	0	QPSK	-	20.11	-	18.43	0.0697
5	1	0	16-QAM	-	19.43	-		
3	1	0	QPSK	-	20.09	-	18.41	0.0693
3	1	0	16-QAM	-	19.01	-		
1.4	1	0	QPSK	-	20.07	-	18.39	0.0690
1.4	1	0	16-QAM	-	18.94	-		
Limit	ERP < 7W			Result			Pass	



Appendix B. Test Results of Radiated Test

B1-1. Summary of each worse mode

<Sample 1>

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 24E	LTE CAT M1 B2	M	3750	-34.15	RMS	33.20	-48.96	0.67	-95.23	76.17	-13.00	-21.15	H	Ant 5



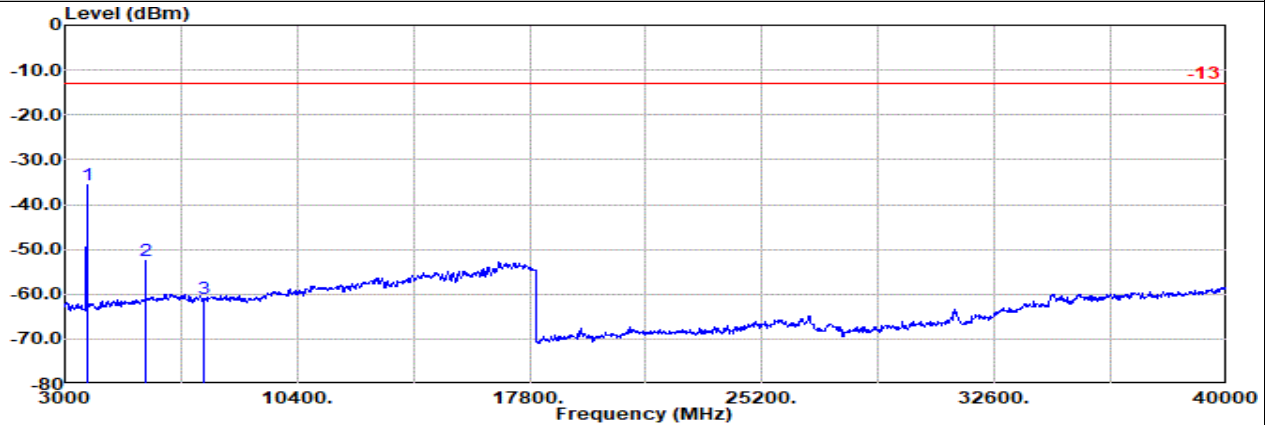
Ant. 5

Worst plane :NB With Accessory

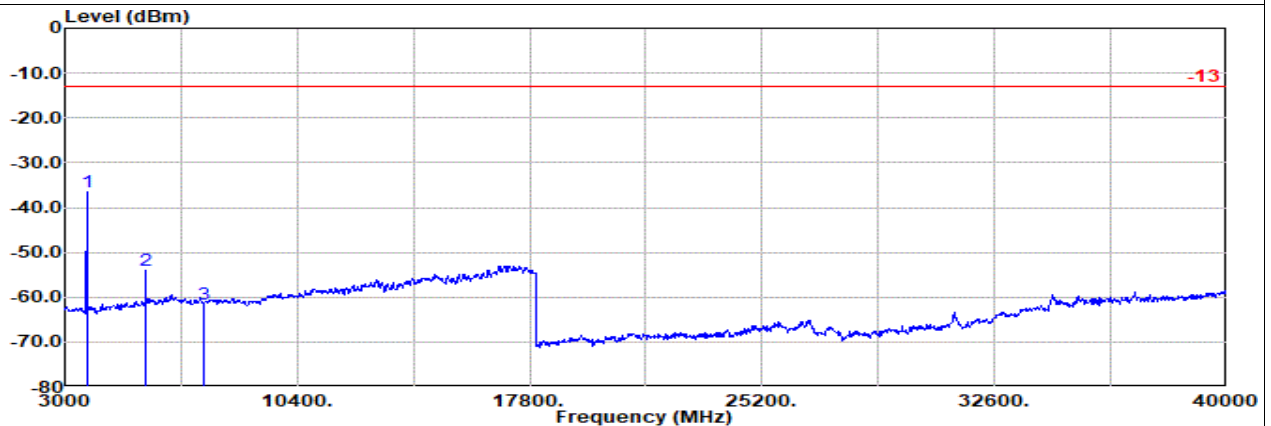
Part 24E Mode 1

LTE CAT M1 B2 20M Ch18700 1RB0 QPSK

L



	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3705.00	-35.61	RMS	33.11	-49.00	0.67	-95.23	0.00	-13.00	-22.61	Horizontal
2	5565.00	-52.52	RMS	34.70	-44.06	0.51	-95.23	51.56	-13.00	-39.52	Horizontal
3	7400.00	-60.88	RMS	35.70	-42.98	0.31	-95.23	41.32	-13.00	-47.88	Horizontal



	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3705.00	-36.39	RMS	33.11	-49.00	0.67	-95.23	74.06	-13.00	-23.39	Vertical
2	5565.00	-54.18	RMS	34.70	-44.06	0.51	-95.23	49.90	-13.00	-41.18	Vertical
3	7400.00	-61.51	RMS	35.70	-42.98	0.31	-95.23	40.69	-13.00	-48.51	Vertical



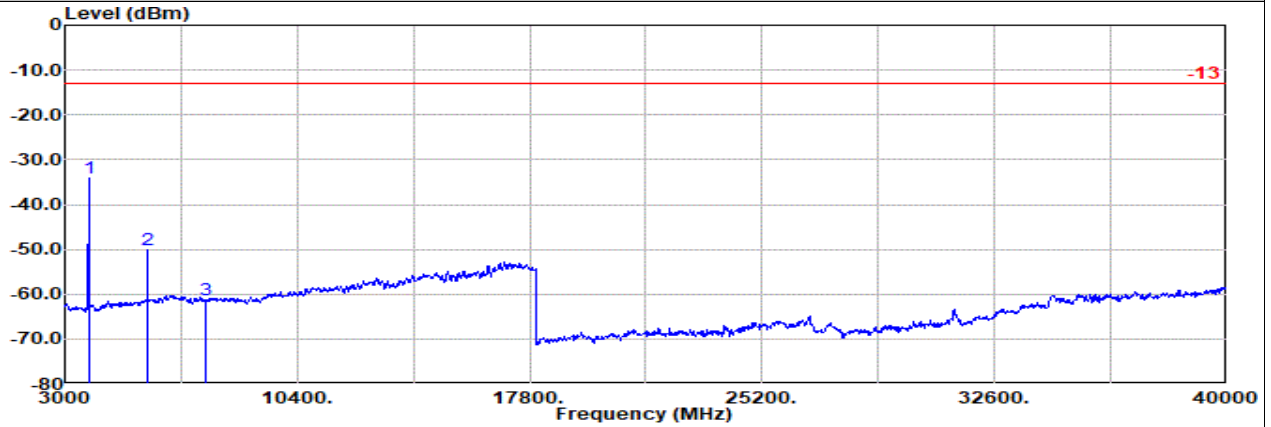
Ant. 5

Worst plane :NB With Accessory

Part 24E Mode 1

LTE CAT M1 B2 20M Ch18900 1RB0 QPSK

M

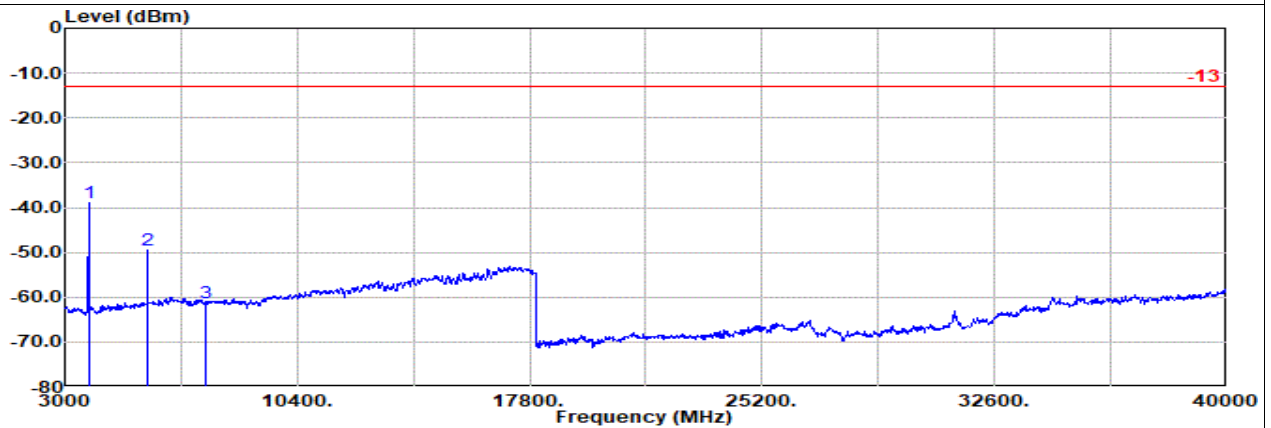


Site : 03CH07-HY

Condition: -13 1m SHF-EHF_9170251 Horizontal

Mode : CatM1 Band 2 20M CH18900 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm									
1	3750.00	-34.15	RMS	33.20	-48.96	0.67	-95.23	76.17	-13.00	-21.15	Horizontal
2	5625.00	-50.09	RMS	34.85	-43.90	0.50	-95.23	53.69	-13.00	-37.09	Horizontal
3	7485.00	-61.42	RMS	35.53	-43.03	0.33	-95.23	40.98	-13.00	-48.42	Horizontal



Site : 03CH07-HY

Condition: -13 1m SHF-EHF_9170251 Vertical

Mode : CatM1 Band 2 20M CH18900 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm									
1	3750.00	-39.04	RMS	33.20	-48.96	0.67	-95.23	71.28	-13.00	-26.04	Vertical
2	5625.00	-49.52	RMS	34.85	-43.90	0.50	-95.23	54.26	-13.00	-36.52	Vertical
3	7485.00	-61.42	RMS	35.53	-43.03	0.33	-95.23	40.98	-13.00	-48.42	Vertical



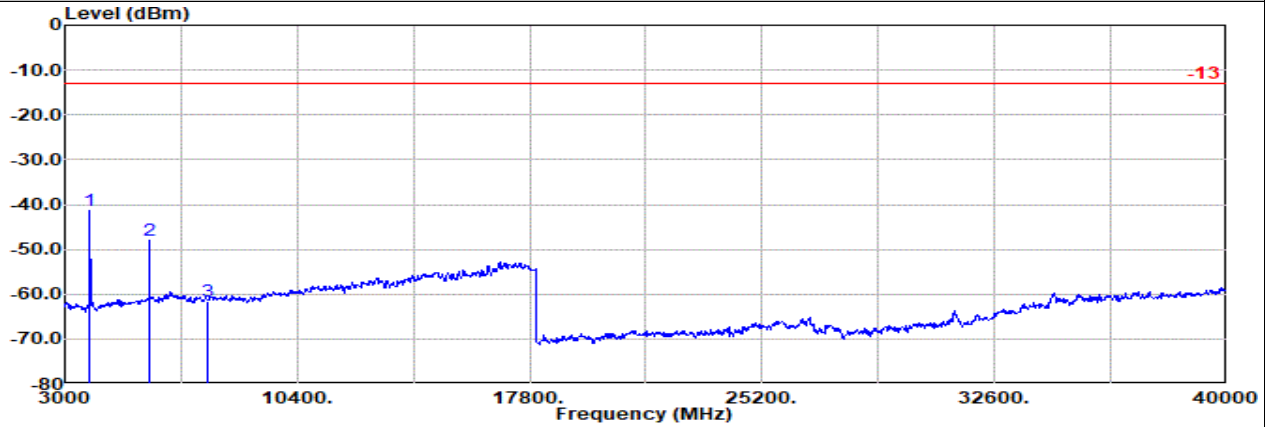
Ant. 5

Worst plane :NB With Accessory

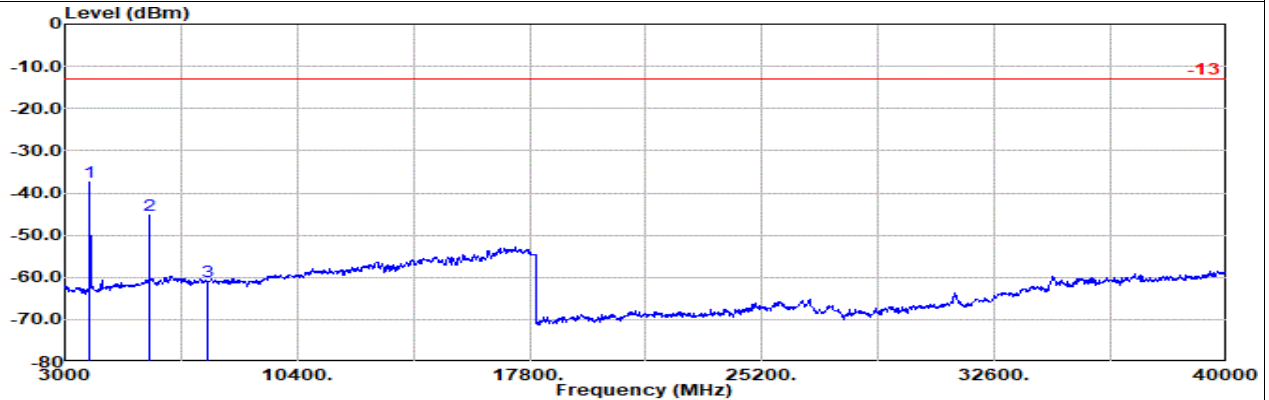
Part 24E Mode 1

LTE CAT M1 B2 20M Ch19100 1RB0 QPSK

H



	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3795.00	-41.28	RMS	33.38	-48.91	0.68	-95.23	68.80	-13.00	-28.28	Horizontal
2	5685.00	-48.04	RMS	35.14	-43.73	0.41	-95.23	55.37	-13.00	-35.04	Horizontal
3	7560.00	-61.44	RMS	35.74	-42.98	0.34	-95.23	40.69	-13.00	-48.44	Horizontal



	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3795.00	-37.33	RMS	33.38	-48.91	0.68	-95.23	72.75	-13.00	-24.33	Vertical
2	5685.00	-45.22	RMS	35.14	-43.73	0.41	-95.23	58.19	-13.00	-32.22	Vertical
3	7560.00	-60.95	RMS	35.74	-42.98	0.34	-95.23	41.18	-13.00	-47.95	Vertical

**B2-1. Summary of each worse mode****<Sample 2>**

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
6	Part 27H	LTE CAT M1 B12	L	2104	-28.78	RMS	31.80	-51.08	0.23	-95.23	85.50	-13.00	-15.78	H	Ant 5
1	Part 27F	LTE CAT M1 B13	H	2352	-14.90	RMS	32.08	-50.62	0.34	-95.23	98.53	-13.00	-1.90	V	Ant 5
2	Part 27F	LTE CAT M1 B13	M	2336	-18.32	RMS	32.10	-50.65	0.33	-95.23	95.13	-13.00	-5.32	H	Ant 5
5	Part 27L	LTE CAT M1 B66	L	3435	-29.23	RMS	33.10	-49.13	0.79	-95.23	81.24	-13.00	-16.23	H	Ant 5
7	Part 90R	LTE CAT M1 B14	H	2384	-16.15	RMS	31.94	-50.57	0.37	-95.23	97.34	-13.00	-3.15	H	Ant 5
8	Part 90S	LTE CAT M1 B26	M	2456	-16.08	RMS	32.06	-50.44	0.32	-95.23	97.21	-13.00	-3.08	H	Ant 5



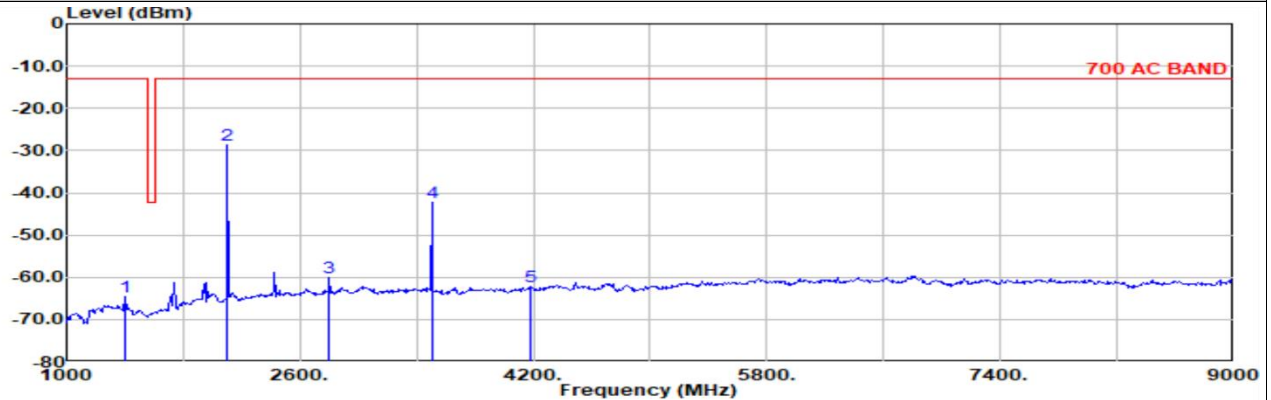
Ant. 5

Worst plane :NB With Accessory

Part 27H Mode 6

LTE CAT M1 B12 10M Ch23060 1RB0 QPSK

L

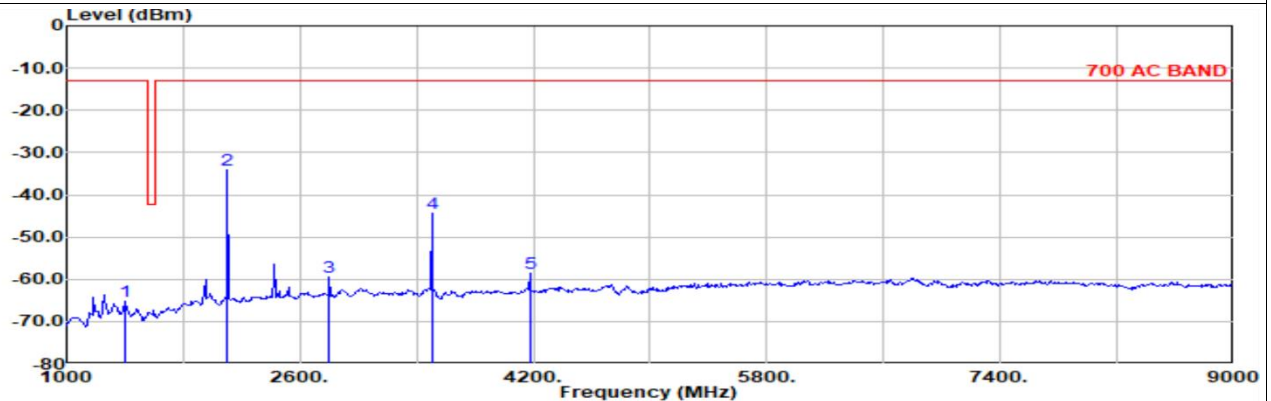


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal

Mode : CatM1 Band 12 10M CH23060 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1400.00	-64.57	RMS	28.60	-52.80	0.42	-95.23	54.44	-13.00	-51.57	Horizontal
2	2104.00	-28.78	RMS	31.80	-51.08	0.23	-95.23	85.50	-13.00	-15.78	Horizontal
3	2800.00	-60.17	RMS	32.40	-49.67	0.26	-95.23	52.07	-13.00	-47.17	Horizontal
4	3504.00	-42.24	RMS	32.78	-49.13	0.22	-95.23	69.12	-13.00	-29.24	Horizontal
5	4176.00	-62.17	RMS	33.65	-48.56	0.42	-95.23	47.55	-13.00	-49.17	Horizontal



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical

Mode : CatM1 Band 12 10M CH23060 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1400.00	-65.25	RMS	28.60	-52.80	0.42	-95.23	53.76	-13.00	-52.25	Vertical
2	2104.00	-33.99	RMS	31.80	-51.08	0.23	-95.23	80.29	-13.00	-20.99	Vertical
3	2800.00	-59.46	RMS	32.40	-49.67	0.26	-95.23	52.78	-13.00	-46.46	Vertical
4	3504.00	-44.31	RMS	32.78	-49.13	0.22	-95.23	67.05	-13.00	-31.31	Vertical
5	4176.00	-58.44	RMS	33.65	-48.56	0.42	-95.23	51.28	-13.00	-45.44	Vertical



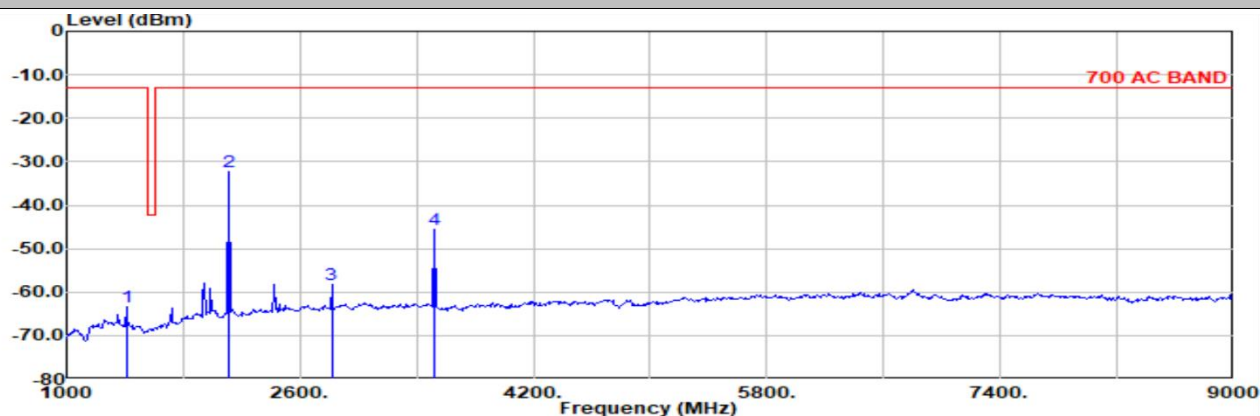
Ant. 5

Worst plane :NB With Accessory

Part 27H Mode 6

LTE CAT M1 B12 10M Ch23095 1RB0 QPSK

M

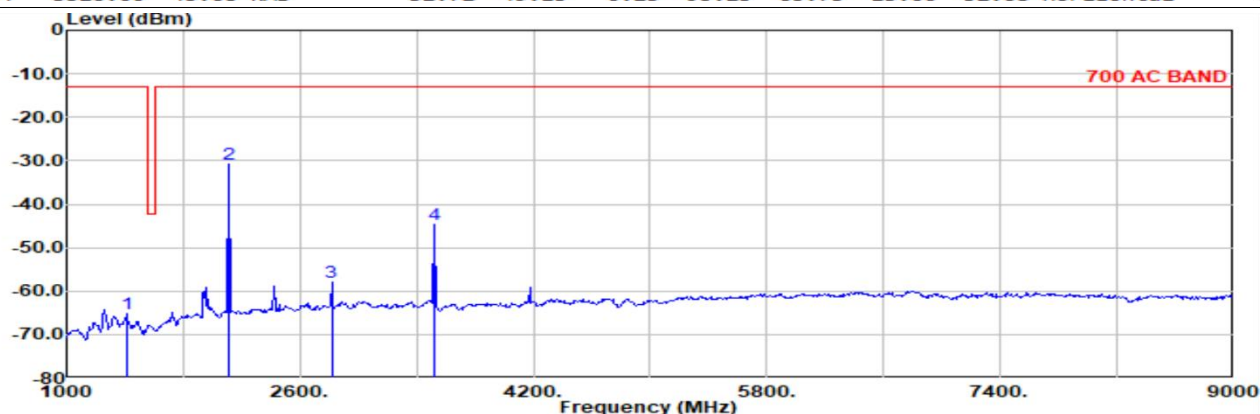


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal

Mode : CatM1 Band 12 10M CH23095 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter		Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1		EIRPCF	g	dBm	dB	
1	1408.00	-63.44	RMS	28.52	-52.77	0.42	-95.23	55.62	-13.00	-50.44	Horizontal
2	2112.00	-32.40	RMS	31.82	-51.07	0.23	-95.23	81.85	-13.00	-19.40	Horizontal
3	2816.00	-58.39	RMS	32.40	-49.65	0.26	-95.23	53.83	-13.00	-45.39	Horizontal
4	3520.00	-45.68	RMS	32.72	-49.13	0.23	-95.23	65.73	-13.00	-32.68	Horizontal



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical

Mode : CatM1 Band 12 10M CH23095 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter		Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1		EIRPCF	g	dBm	dB	
1	1408.00	-65.26	RMS	28.52	-52.77	0.42	-95.23	53.80	-13.00	-52.26	Vertical
2	2112.00	-30.83	RMS	31.82	-51.07	0.23	-95.23	83.42	-13.00	-17.83	Vertical
3	2816.00	-58.02	RMS	32.40	-49.65	0.26	-95.23	54.20	-13.00	-45.02	Vertical
4	3520.00	-44.67	RMS	32.72	-49.13	0.23	-95.23	66.74	-13.00	-31.67	Vertical



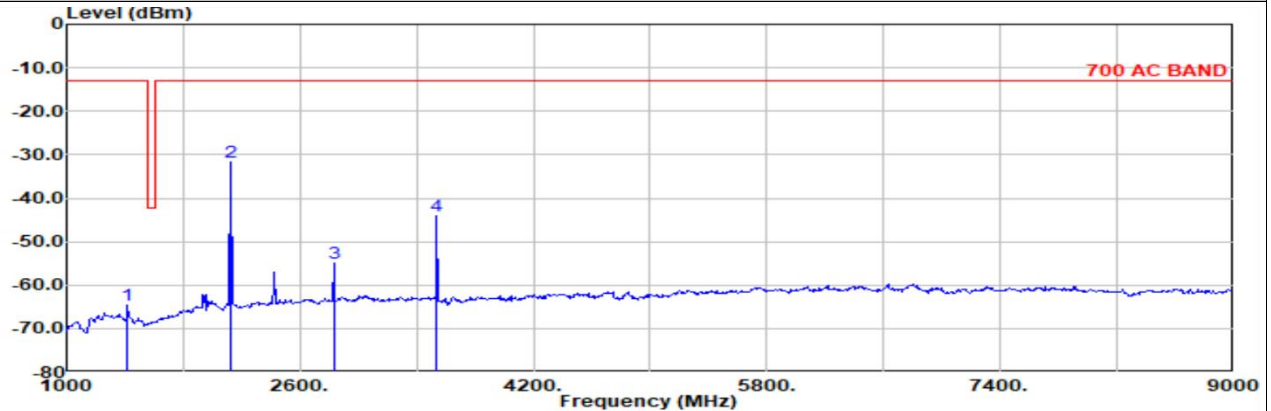
Ant. 5

Worst plane :NB With Accessory

Part 27H Mode 6

LTE CAT M1 B12 10M Ch23130 1RB0 QPSK

H

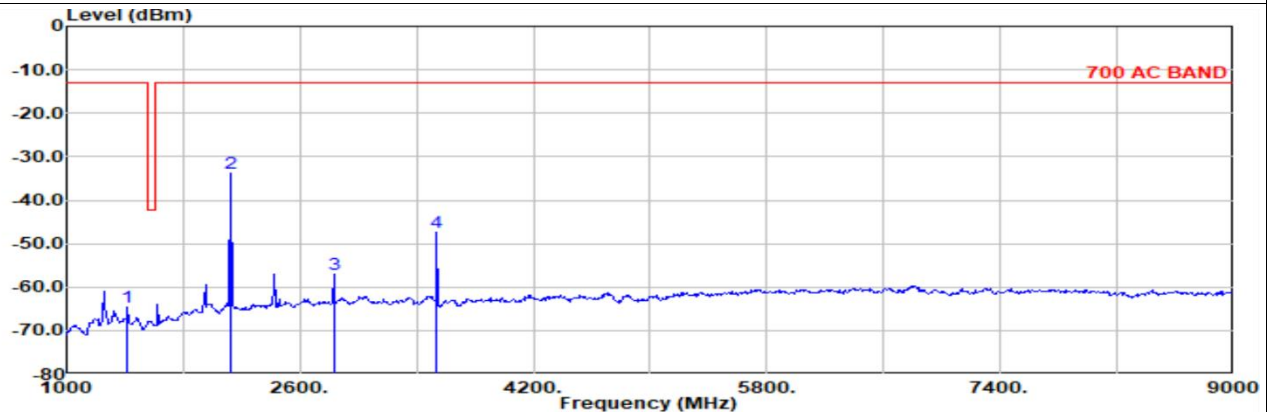


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal

Mode : CatM1 Band 12 10M CH23130 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1416.00	-64.72	RMS	28.50	-52.75	0.41	-95.23	54.35	-13.00	-51.72	Horizontal
2	2120.00	-31.65	RMS	31.90	-51.05	0.22	-95.23	82.51	-13.00	-18.65	Horizontal
3	2832.00	-55.07	RMS	32.40	-49.63	0.26	-95.23	57.13	-13.00	-42.07	Horizontal
4	3536.00	-43.98	RMS	32.66	-49.12	0.25	-95.23	67.46	-13.00	-30.98	Horizontal



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical

Mode : CatM1 Band 12 10M CH23130 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1416.00	-64.74	RMS	28.50	-52.75	0.41	-95.23	54.33	-13.00	-51.74	Vertical
2	2120.00	-33.87	RMS	31.90	-51.05	0.22	-95.23	80.29	-13.00	-20.87	Vertical
3	2832.00	-57.18	RMS	32.40	-49.63	0.26	-95.23	55.02	-13.00	-44.18	Vertical
4	3536.00	-47.40	RMS	32.66	-49.12	0.25	-95.23	64.04	-13.00	-34.40	Vertical



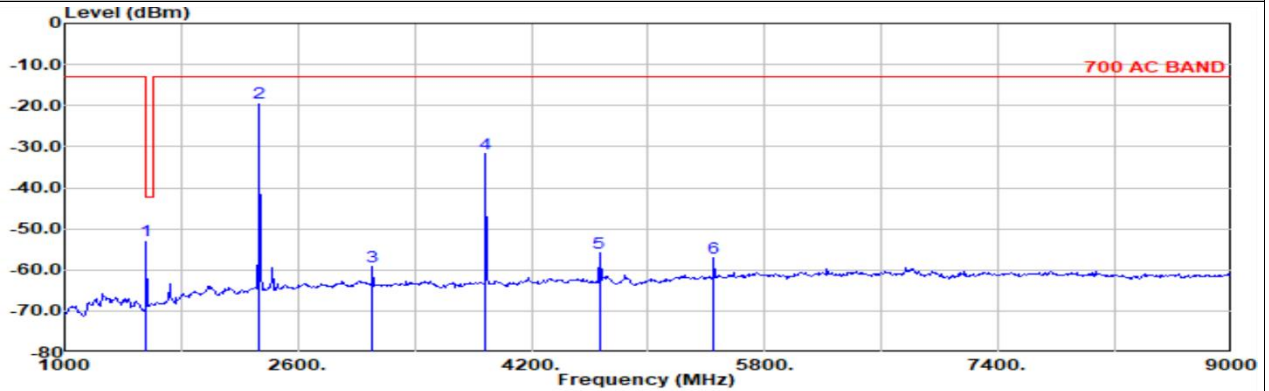
Ant. 5

Worst plane :NB With Accessory

Part 27F Mode 1

LTE CAT M1 B13 5M Ch23205 1RB0 QPSK

L

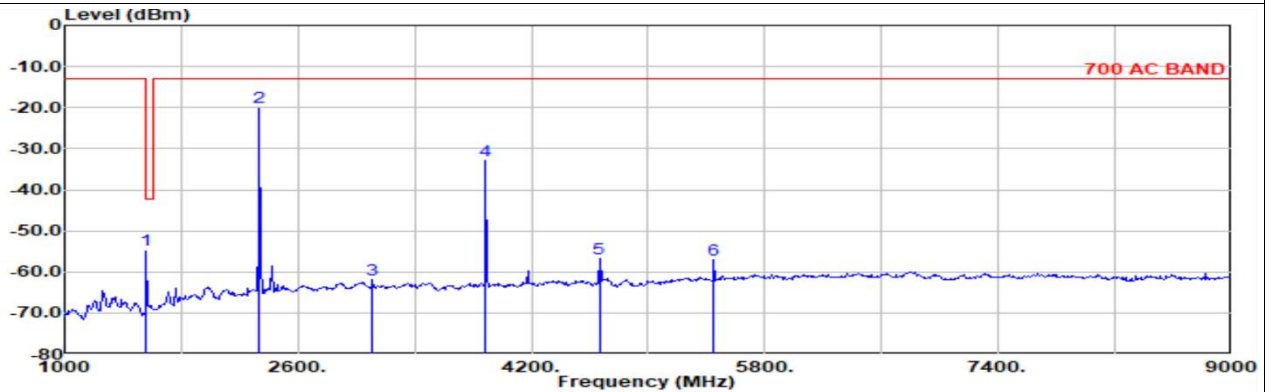


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal

Mode : CatM1 Band 13 5M CH23205 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1			g			
1	1560.00	-52.71	RMS	27.70	-52.34	0.33	-95.23	66.83	-42.15	-10.56	Horizontal
2	2336.00	-19.29	RMS	32.10	-50.65	0.33	-95.23	94.16	-13.00	-6.29	Horizontal
3	3112.00	-59.19	RMS	32.65	-49.33	0.18	-95.23	52.54	-13.00	-46.19	Horizontal
4	3888.00	-31.85	RMS	33.42	-48.87	0.50	-95.23	78.33	-13.00	-18.85	Horizontal
5	4664.00	-55.72	RMS	34.07	-47.50	0.18	-95.23	52.76	-13.00	-42.72	Horizontal
6	5448.00	-57.11	RMS	34.80	-44.48	0.35	-95.23	47.45	-13.00	-44.11	Horizontal



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical

Mode : CatM1 Band 13 5M CH23205 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1			g			
1	1560.00	-54.52	RMS	27.70	-52.34	0.33	-95.23	65.02	-42.15	-12.37	Vertical
2	2336.00	-19.79	RMS	32.10	-50.65	0.33	-95.23	93.66	-13.00	-6.79	Vertical
3	3112.00	-61.90	RMS	32.65	-49.33	0.18	-95.23	49.83	-13.00	-48.90	Vertical
4	3888.00	-32.99	RMS	33.42	-48.87	0.50	-95.23	77.19	-13.00	-19.99	Vertical
5	4664.00	-56.74	RMS	34.07	-47.50	0.18	-95.23	51.74	-13.00	-43.74	Vertical
6	5448.00	-56.92	RMS	34.80	-44.48	0.35	-95.23	47.64	-13.00	-43.92	Vertical



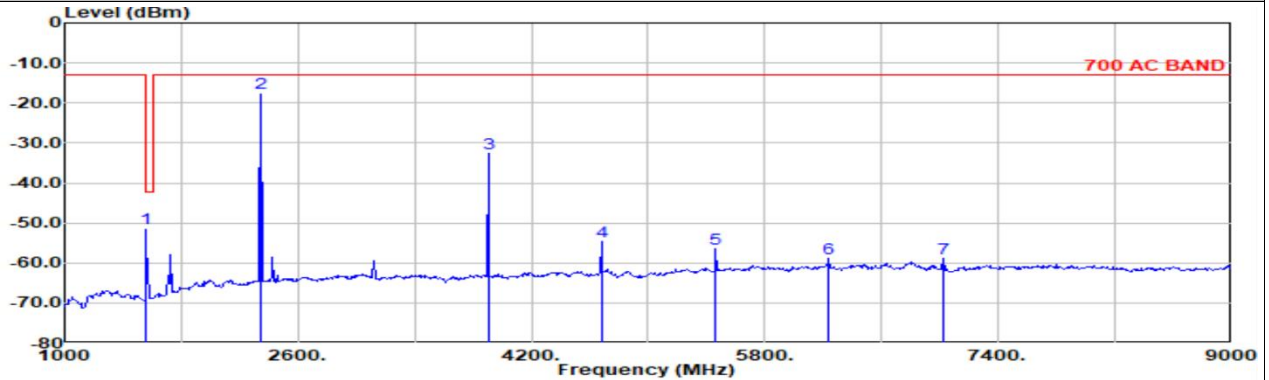
Ant. 5

Worst plane :NB With Accessory

Part 27F Mode 1

LTE CAT M1 B13 5M Ch23230 1RB0 QPSK

M

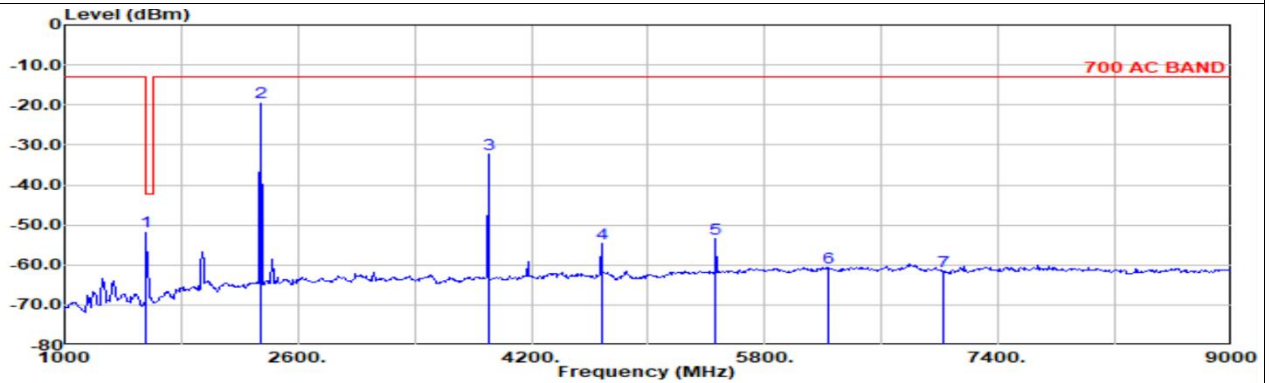


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal

Mode : CatM1 Band 13 5M CH23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB
1	1560.00	-51.32	RMS	27.70	-52.34	0.33	-95.23	68.22	-42.15	-9.17	Horizontal
2	2344.00	-17.56	RMS	32.10	-50.64	0.33	-95.23	95.88	-13.00	-4.56	Horizontal
3	3904.00	-32.55	RMS	33.39	-48.87	0.50	-95.23	77.66	-13.00	-19.55	Horizontal
4	4680.00	-54.57	RMS	34.04	-47.46	0.18	-95.23	53.90	-13.00	-41.57	Horizontal
5	5464.00	-56.40	RMS	34.80	-44.40	0.36	-95.23	48.07	-13.00	-43.40	Horizontal
6	6240.00	-58.87	RMS	35.62	-42.50	0.16	-95.23	43.08	-13.00	-45.87	Horizontal
7	7024.00	-58.85	RMS	35.65	-43.00	0.31	-95.23	43.42	-13.00	-45.85	Horizontal



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical

Mode : CatM1 Band 13 5M CH23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB
1	1560.00	-51.72	RMS	27.70	-52.34	0.33	-95.23	67.82	-42.15	-9.57	Vertical
2	2344.00	-19.39	RMS	32.10	-50.64	0.33	-95.23	94.05	-13.00	-6.39	Vertical
3	3904.00	-32.27	RMS	33.39	-48.87	0.50	-95.23	77.94	-13.00	-19.27	Vertical
4	4680.00	-54.70	RMS	34.04	-47.46	0.18	-95.23	53.77	-13.00	-41.70	Vertical
5	5464.00	-53.30	RMS	34.80	-44.40	0.36	-95.23	51.17	-13.00	-40.30	Vertical
6	6240.00	-60.72	RMS	35.62	-42.50	0.16	-95.23	41.23	-13.00	-47.72	Vertical
7	7024.00	-61.60	RMS	35.65	-43.00	0.31	-95.23	40.67	-13.00	-48.60	Vertical



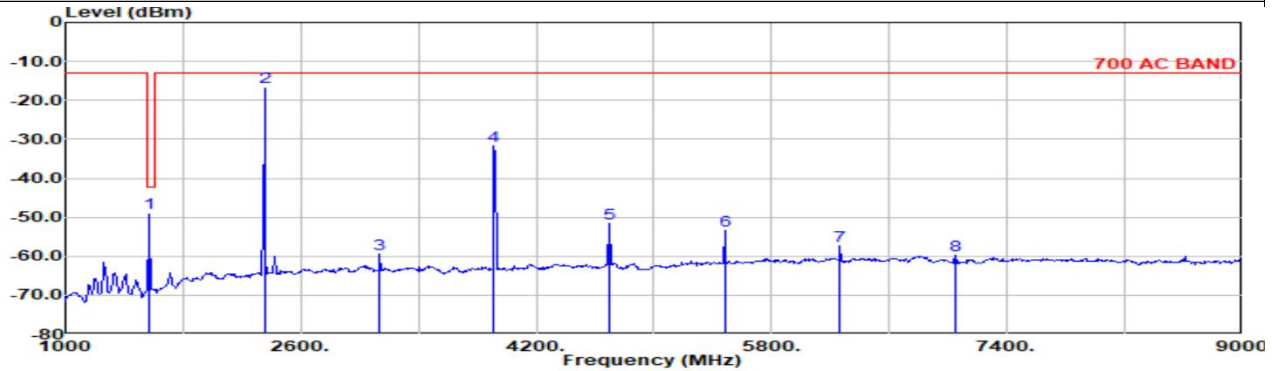
Ant. 5

Worst plane :NB With Accessory

Part 27F Mode 1

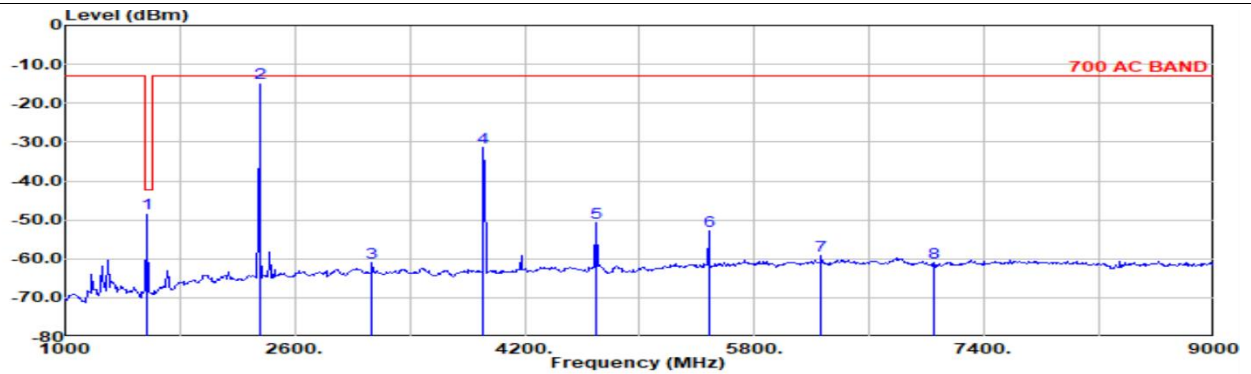
LTE CAT M1 B13 5M Ch23255 1RB0 QPSK

H



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 13 5M CH23255 1RB0 QPSK

	Freq		Detector	Ant Factor		Amp\Cb		Filter	EIRPCF		Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB		dB	dB	dBuV	dBm	dB	
1	1568.00	-48.90	RMS	27.70	-52.32	0.33	-95.23	70.62	-42.15	-6.75	Horizontal			
2	2352.00	-16.67	RMS	32.08	-50.62	0.34	-95.23	96.76	-13.00	-3.67	Horizontal			
3	3136.00	-59.57	RMS	32.56	-49.32	0.17	-95.23	52.25	-13.00	-46.57	Horizontal			
4	3912.00	-31.75	RMS	33.38	-48.87	0.50	-95.23	78.47	-13.00	-18.75	Horizontal			
5	4696.00	-51.60	RMS	34.01	-47.42	0.17	-95.23	56.87	-13.00	-38.60	Horizontal			
6	5480.00	-53.38	RMS	34.80	-44.32	0.36	-95.23	51.01	-13.00	-40.38	Horizontal			
7	6264.00	-57.50	RMS	35.54	-42.46	0.18	-95.23	44.47	-13.00	-44.50	Horizontal			
8	7048.00	-59.73	RMS	35.60	-43.00	0.33	-95.23	42.57	-13.00	-46.73	Horizontal			



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 13 5M CH23255 1RB0 QPSK

	Freq		Detector	Ant Factor		Amp\Cb		Filter	EIRPCF		Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB		dB	dB	dBuV	dBm	dB	
1	1568.00	-48.18	RMS	27.70	-52.32	0.33	-95.23	71.34	-42.15	-6.03	Vertical			
2	2352.00	-14.90	RMS	32.08	-50.62	0.34	-95.23	98.53	-13.00	-1.90	Vertical			
3	3136.00	-60.99	RMS	32.56	-49.32	0.17	-95.23	50.83	-13.00	-47.99	Vertical			
4	3912.00	-31.41	RMS	33.38	-48.87	0.50	-95.23	78.81	-13.00	-18.41	Vertical			
5	4696.00	-50.80	RMS	34.01	-47.42	0.17	-95.23	57.67	-13.00	-37.80	Vertical			
6	5480.00	-52.86	RMS	34.80	-44.32	0.36	-95.23	51.53	-13.00	-39.86	Vertical			
7	6264.00	-59.25	RMS	35.54	-42.46	0.18	-95.23	42.72	-13.00	-46.25	Vertical			
8	7048.00	-60.86	RMS	35.60	-43.00	0.33	-95.23	41.44	-13.00	-47.86	Vertical			



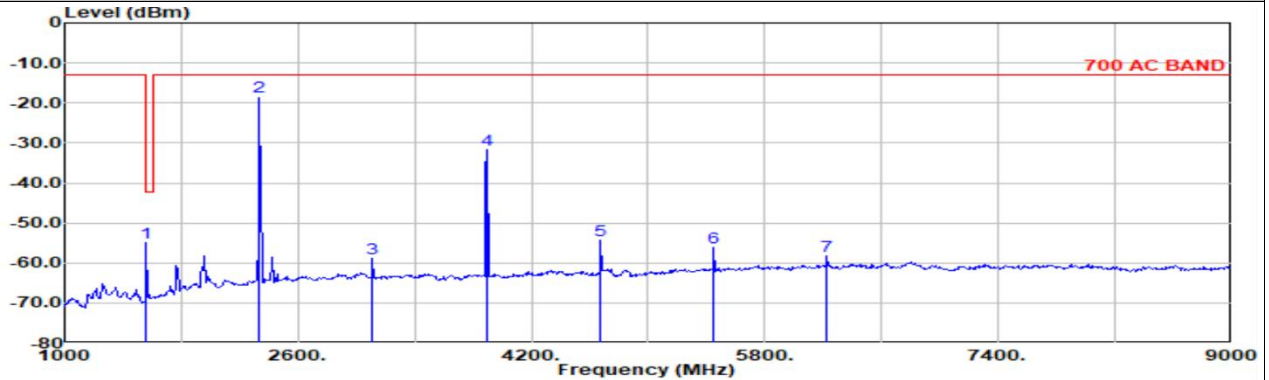
Ant. 5

Worst plane :NB With Accessory

Part 27F Mode 2

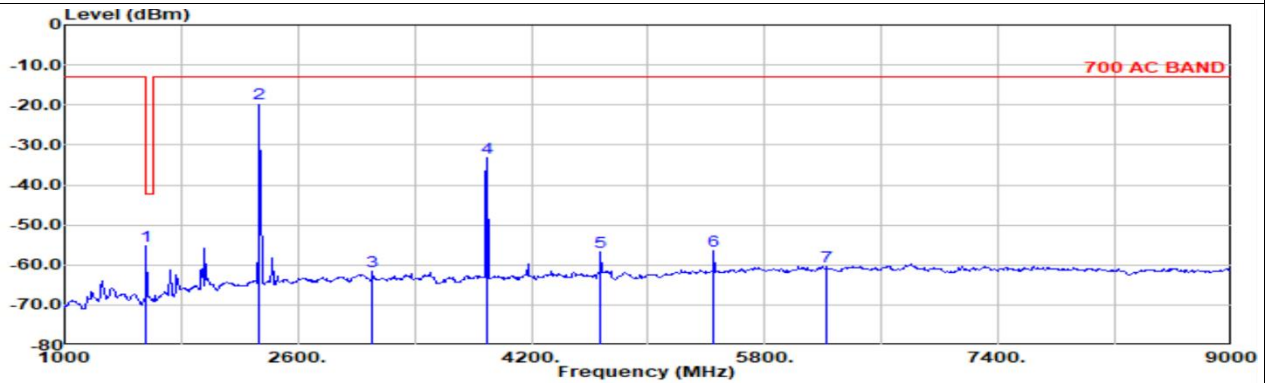
LTE CAT M1 B13 10M Ch23230 1RB0 QPSK

M



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 13 10M CH23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	1560.00	-54.88	RMS	27.70	-52.34	0.33	-95.23	64.66	-42.15	-12.73	Horizontal
2	2336.00	-18.32	RMS	32.10	-50.65	0.33	-95.23	95.13	-13.00	-5.32	Horizontal
3	3112.00	-58.94	RMS	32.65	-49.33	0.18	-95.23	52.79	-13.00	-45.94	Horizontal
4	3896.00	-31.72	RMS	33.41	-48.87	0.50	-95.23	78.47	-13.00	-18.72	Horizontal
5	4672.00	-54.45	RMS	34.06	-47.48	0.18	-95.23	54.02	-13.00	-41.45	Horizontal
6	5448.00	-56.20	RMS	34.80	-44.48	0.35	-95.23	48.36	-13.00	-43.20	Horizontal
7	6224.00	-58.39	RMS	35.65	-42.52	0.14	-95.23	43.57	-13.00	-45.39	Horizontal



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 13 10M CH23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	1560.00	-55.14	RMS	27.70	-52.34	0.33	-95.23	64.40	-42.15	-12.99	Vertical
2	2336.00	-19.77	RMS	32.10	-50.65	0.33	-95.23	93.68	-13.00	-6.77	Vertical
3	3112.00	-61.71	RMS	32.65	-49.33	0.18	-95.23	50.02	-13.00	-48.71	Vertical
4	3896.00	-33.17	RMS	33.41	-48.87	0.50	-95.23	77.02	-13.00	-20.17	Vertical
5	4672.00	-56.71	RMS	34.06	-47.48	0.18	-95.23	51.76	-13.00	-43.71	Vertical
6	5448.00	-56.52	RMS	34.80	-44.48	0.35	-95.23	48.04	-13.00	-43.52	Vertical
7	6224.00	-60.47	RMS	35.65	-42.52	0.14	-95.23	41.49	-13.00	-47.47	Vertical



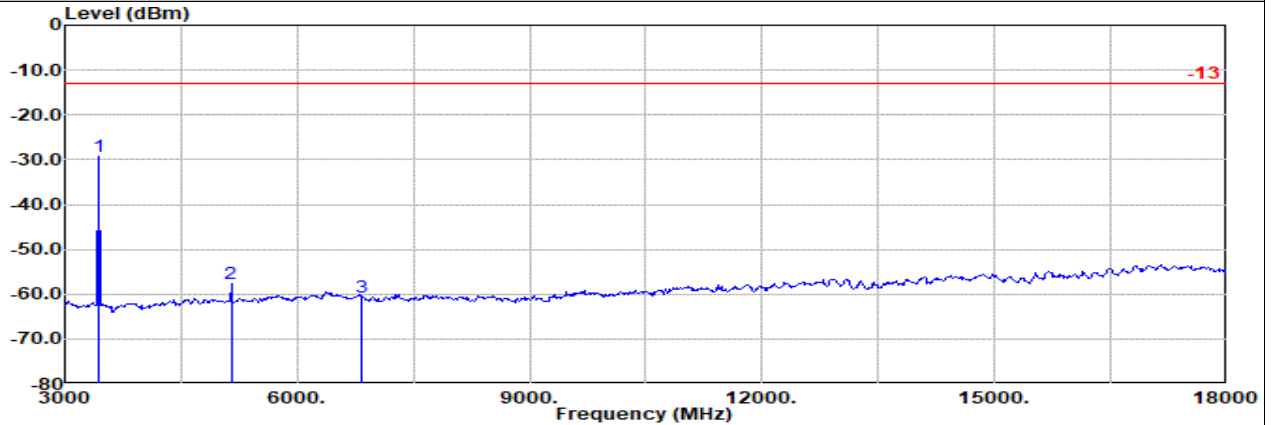
Ant. 5

Worst plane :TB (X) With Accessory

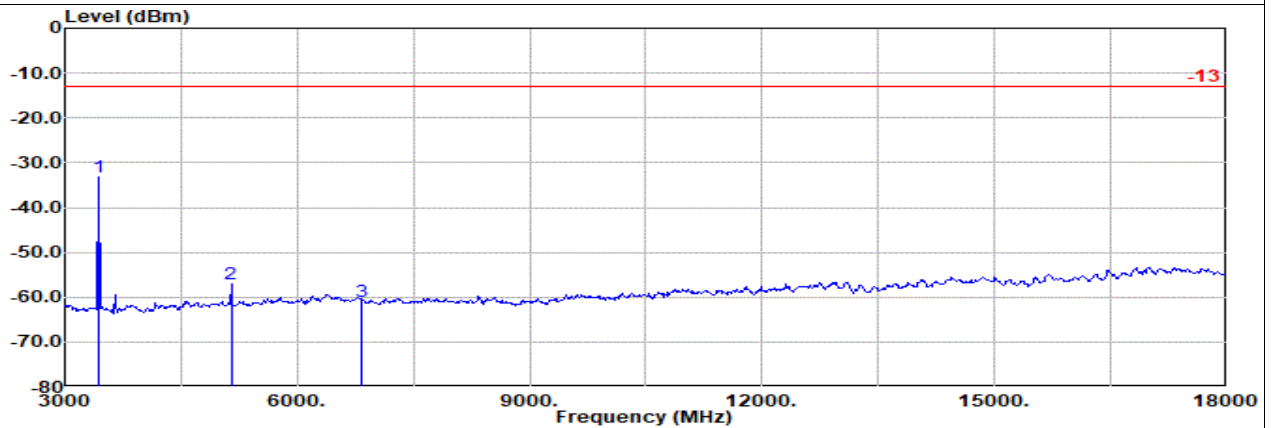
Part 27L Mode 5

LTE CAT M1 B66 20M Ch132072 1RB0 QPSK

L



	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3435.00	-29.23	RMS	33.10	-49.13	0.79	-95.23	81.24	-13.00	-16.23	Horizontal
2	5145.00	-57.74	RMS	34.27	-45.86	0.43	-95.23	48.65	-13.00	-44.74	Horizontal
3	6840.00	-60.56	RMS	35.72	-42.74	0.65	-95.23	41.04	-13.00	-47.56	Horizontal



	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3435.00	-33.13	RMS	33.10	-49.13	0.79	-95.23	77.34	-13.00	-20.13	Vertical
2	5145.00	-57.13	RMS	34.27	-45.86	0.43	-95.23	49.26	-13.00	-44.13	Vertical
3	6840.00	-60.96	RMS	35.72	-42.74	0.65	-95.23	40.64	-13.00	-47.96	Vertical



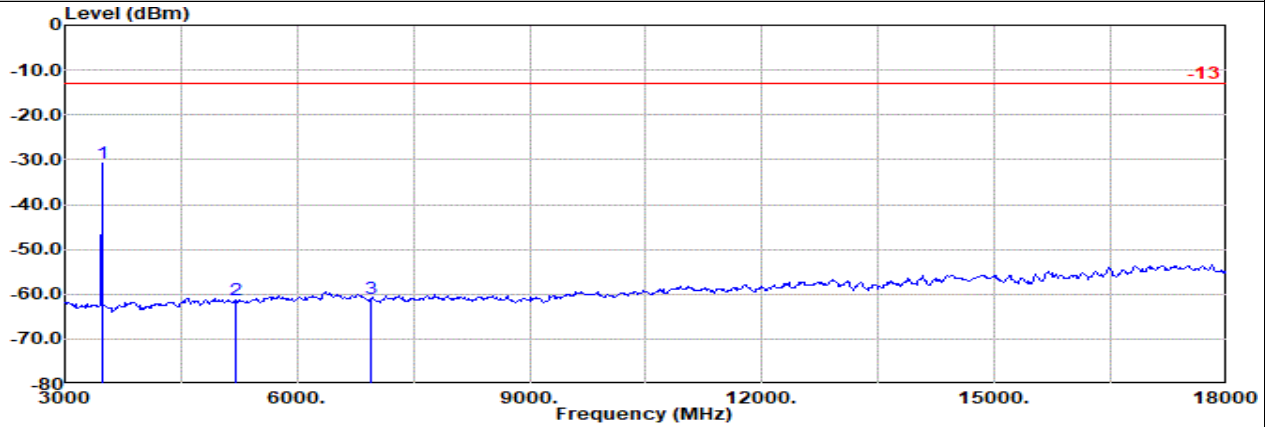
Ant. 5

Worst plane :TB (X) With Accessory

Part 27L Mode 5

LTE CAT M1 B66 20M Ch132322 1RB0 QPSK

M

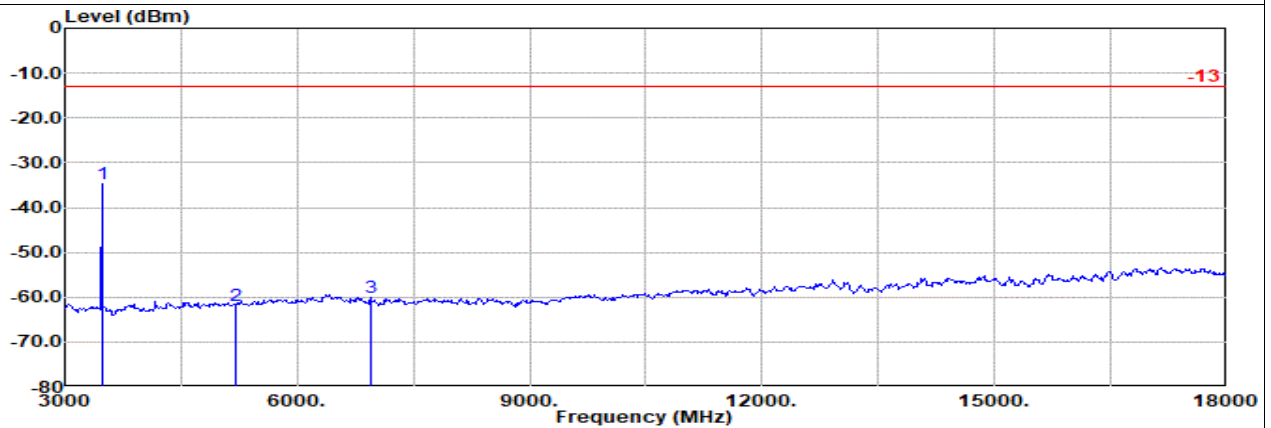


Site : 03CH07-HY

Condition: -13 3m HF_ANT_00075962 Horizontal

Mode : Cat M1 Band 66 20M CH132322 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3480.00	-30.74	RMS	32.92	-49.13	0.75	-95.23	79.95	-13.00	-17.74	Horizontal
2	5205.00	-61.41	RMS	34.52	-45.54	0.31	-95.23	44.53	-13.00	-48.41	Horizontal
3	6940.00	-61.07	RMS	35.78	-42.90	0.33	-95.23	40.95	-13.00	-48.07	Horizontal



Site : 03CH07-HY

Condition: -13 3m HF_ANT_00075962 Vertical

Mode : Cat M1 Band 66 20M CH132322 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3480.00	-34.60	RMS	32.92	-49.13	0.75	-95.23	76.09	-13.00	-21.60	Vertical
2	5205.00	-61.84	RMS	34.52	-45.54	0.31	-95.23	44.10	-13.00	-48.84	Vertical
3	6940.00	-60.07	RMS	35.78	-42.90	0.33	-95.23	41.95	-13.00	-47.07	Vertical



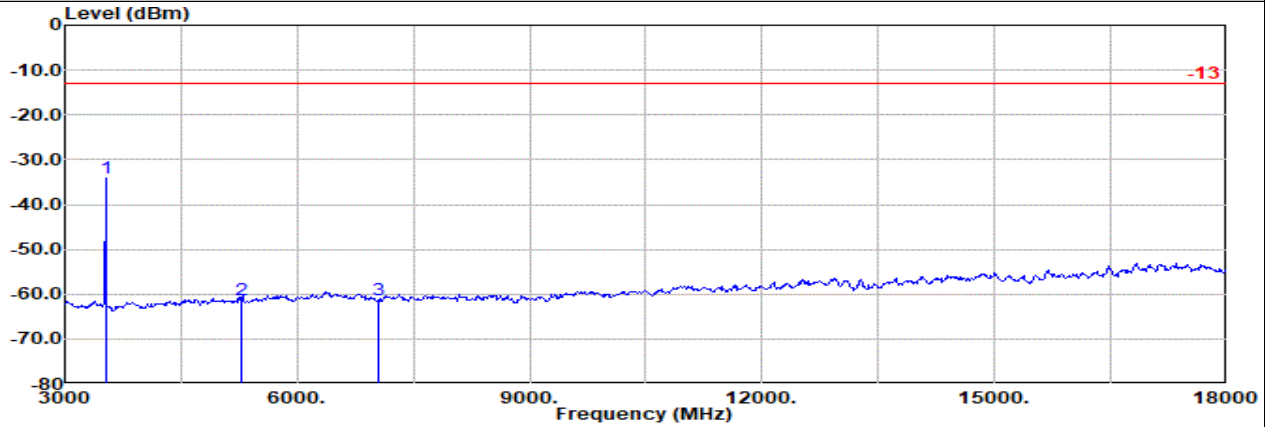
Ant. 5

Worst plane :TB (X) With Accessory

Part 27L Mode 5

LTE CAT M1 B66 20M Ch132572 1RB0 QPSK

H

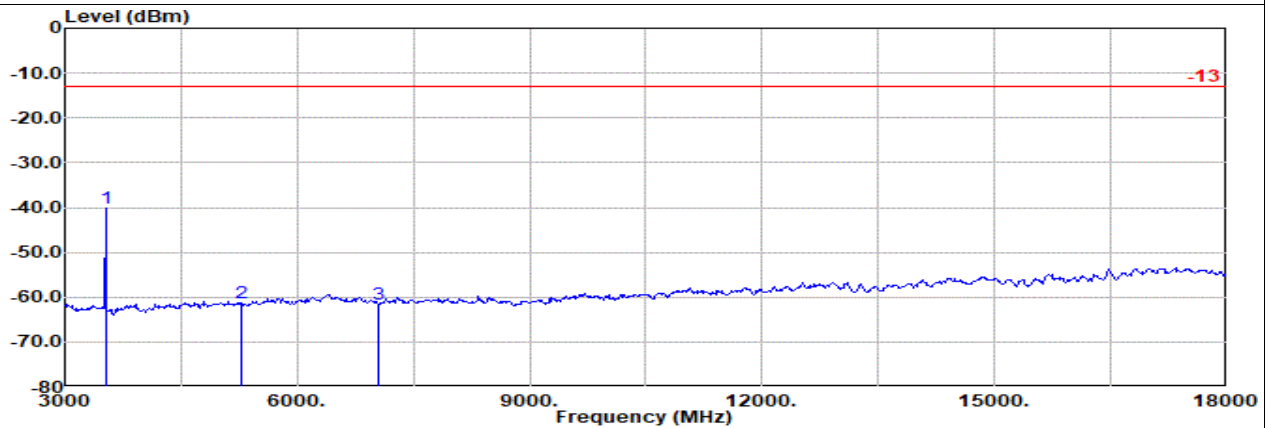


Site : 03CH07-HY

Condition: -13 3m HF_ANT_00075962 Horizontal

Mode : Cat M1 Band 66 20M CH132572 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3525.00	-34.01	RMS	32.70	-49.13	0.71	-95.23	76.94	-13.00	-21.01	Horizontal
2	5280.00	-61.26	RMS	34.64	-45.22	0.36	-95.23	44.19	-13.00	-48.26	Horizontal
3	7040.00	-61.21	RMS	35.62	-43.00	0.22	-95.23	41.18	-13.00	-48.21	Horizontal



Site : 03CH07-HY

Condition: -13 3m HF_ANT_00075962 Vertical

Mode : Cat M1 Band 66 20M CH132572 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3525.00	-40.28	RMS	32.70	-49.13	0.71	-95.23	70.67	-13.00	-27.28	Vertical
2	5280.00	-61.32	RMS	34.64	-45.22	0.36	-95.23	44.13	-13.00	-48.32	Vertical
3	7040.00	-61.54	RMS	35.62	-43.00	0.22	-95.23	40.85	-13.00	-48.54	Vertical



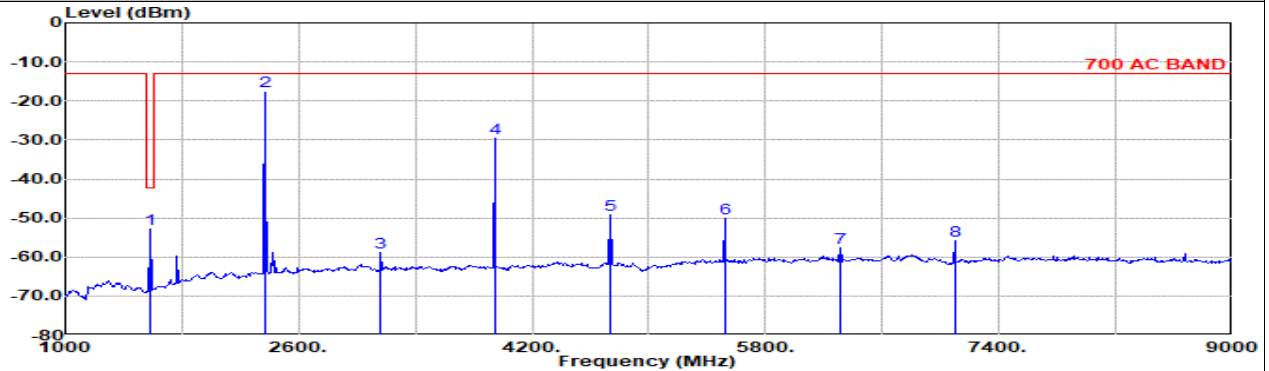
Ant. 5

Worst plane :NB With Accessory

Part 90R Mode 7

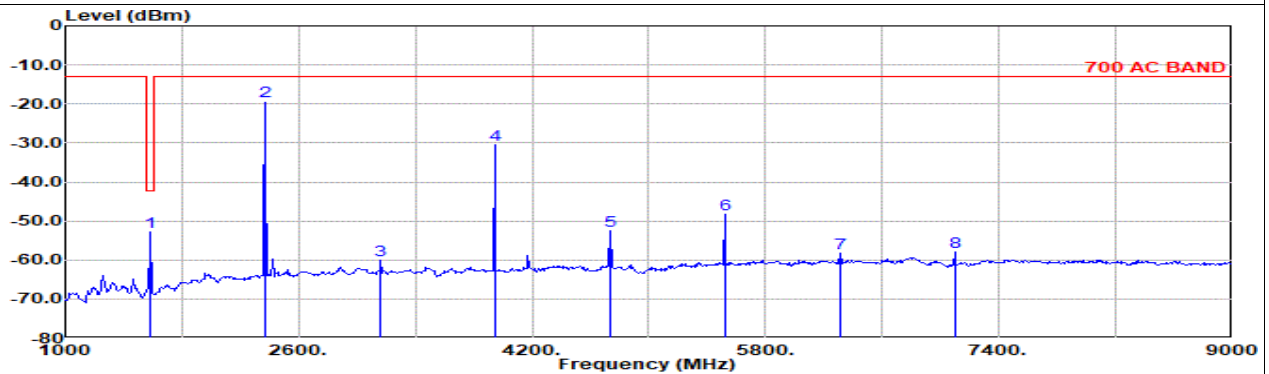
LTE CAT M1 B14 5M Ch23305 1RB0 QPSK

L



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 14 5M CH23305 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1584.00	-52.85	RMS	27.78	-52.28	0.32	-95.23	66.56	-42.15	-10.70	Horizontal
2	2368.00	-17.40	RMS	31.92	-50.59	0.36	-95.23	96.14	-13.00	-4.40	Horizontal
3	3160.00	-58.87	RMS	32.50	-49.31	0.15	-95.23	53.02	-13.00	-45.87	Horizontal
4	3944.00	-29.45	RMS	33.31	-48.85	0.50	-95.23	80.82	-13.00	-16.45	Horizontal
5	4736.00	-49.07	RMS	34.07	-47.32	0.16	-95.23	59.25	-13.00	-36.07	Horizontal
6	5520.00	-50.04	RMS	34.76	-44.18	0.38	-95.23	54.23	-13.00	-37.04	Horizontal
7	6312.00	-57.73	RMS	35.45	-42.39	0.22	-95.23	44.22	-13.00	-44.73	Horizontal
8	7096.00	-55.91	RMS	35.60	-43.01	0.35	-95.23	46.38	-13.00	-42.91	Horizontal



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 14 5M CH23305 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1584.00	-52.91	RMS	27.78	-52.28	0.32	-95.23	66.50	-42.15	-10.76	Vertical
2	2368.00	-19.27	RMS	31.92	-50.59	0.36	-95.23	94.27	-13.00	-6.27	Vertical
3	3160.00	-59.94	RMS	32.50	-49.31	0.15	-95.23	51.95	-13.00	-46.94	Vertical
4	3944.00	-30.58	RMS	33.31	-48.85	0.50	-95.23	79.69	-13.00	-17.58	Vertical
5	4736.00	-52.41	RMS	34.07	-47.32	0.16	-95.23	55.91	-13.00	-39.41	Vertical
6	5520.00	-48.45	RMS	34.76	-44.18	0.38	-95.23	55.82	-13.00	-35.45	Vertical
7	6312.00	-58.22	RMS	35.45	-42.39	0.22	-95.23	43.73	-13.00	-45.22	Vertical
8	7096.00	-57.91	RMS	35.60	-43.01	0.35	-95.23	44.38	-13.00	-44.91	Vertical



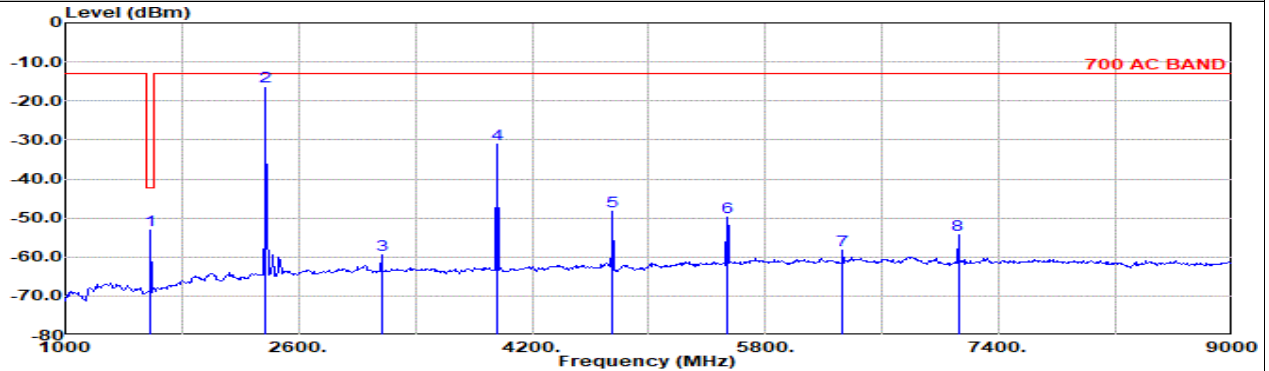
Ant. 5

Worst plane :NB With Accessory

Part 90R Mode 7

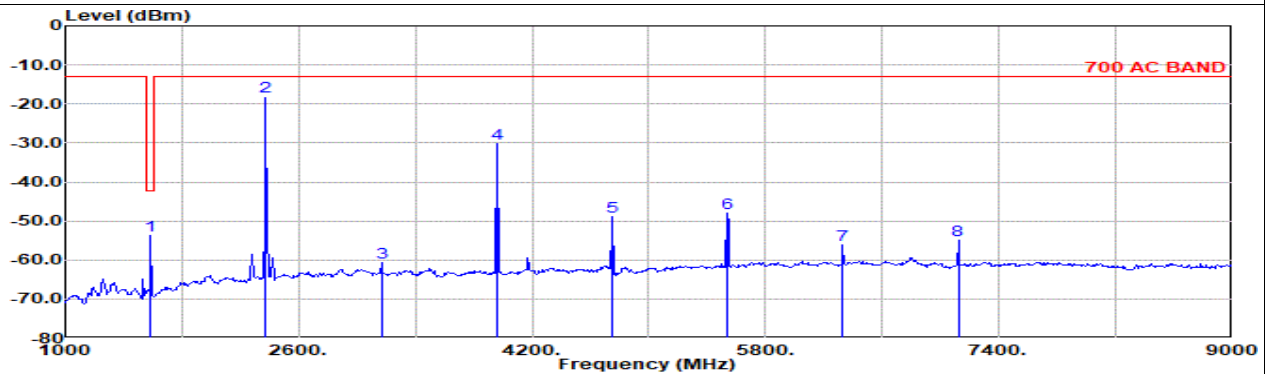
LTE CAT M1 B14 5M Ch23330 1RB0 QPSK

M



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 14 5M CH23330 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1584.00	-53.02	RMS	27.78	-52.28	0.32	-95.23	66.39	-42.15	-10.87	Horizontal
2	2376.00	-16.38	RMS	31.90	-50.58	0.37	-95.23	97.16	-13.00	-3.38	Horizontal
3	3168.00	-59.58	RMS	32.50	-49.30	0.15	-95.23	52.30	-13.00	-46.58	Horizontal
4	3960.00	-31.22	RMS	33.30	-48.85	0.51	-95.23	79.05	-13.00	-18.22	Horizontal
5	4752.00	-48.37	RMS	34.10	-47.29	0.15	-95.23	59.90	-13.00	-35.37	Horizontal
6	5536.00	-49.81	RMS	34.73	-44.14	0.38	-95.23	54.45	-13.00	-36.81	Horizontal
7	6328.00	-58.17	RMS	35.51	-42.36	0.24	-95.23	43.67	-13.00	-45.17	Horizontal
8	7120.00	-54.41	RMS	35.60	-43.01	0.37	-95.23	47.86	-13.00	-41.41	Horizontal



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 14 5M CH23330 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1584.00	-53.78	RMS	27.78	-52.28	0.32	-95.23	65.63	-42.15	-11.63	Vertical
2	2376.00	-18.03	RMS	31.90	-50.58	0.37	-95.23	95.51	-13.00	-5.03	Vertical
3	3168.00	-60.71	RMS	32.50	-49.30	0.15	-95.23	51.17	-13.00	-47.71	Vertical
4	3960.00	-30.20	RMS	33.30	-48.85	0.51	-95.23	80.07	-13.00	-17.20	Vertical
5	4752.00	-48.89	RMS	34.10	-47.29	0.15	-95.23	59.38	-13.00	-35.89	Vertical
6	5536.00	-48.13	RMS	34.73	-44.14	0.38	-95.23	56.13	-13.00	-35.13	Vertical
7	6328.00	-56.07	RMS	35.51	-42.36	0.24	-95.23	45.77	-13.00	-43.07	Vertical
8	7120.00	-54.93	RMS	35.60	-43.01	0.37	-95.23	47.34	-13.00	-41.93	Vertical



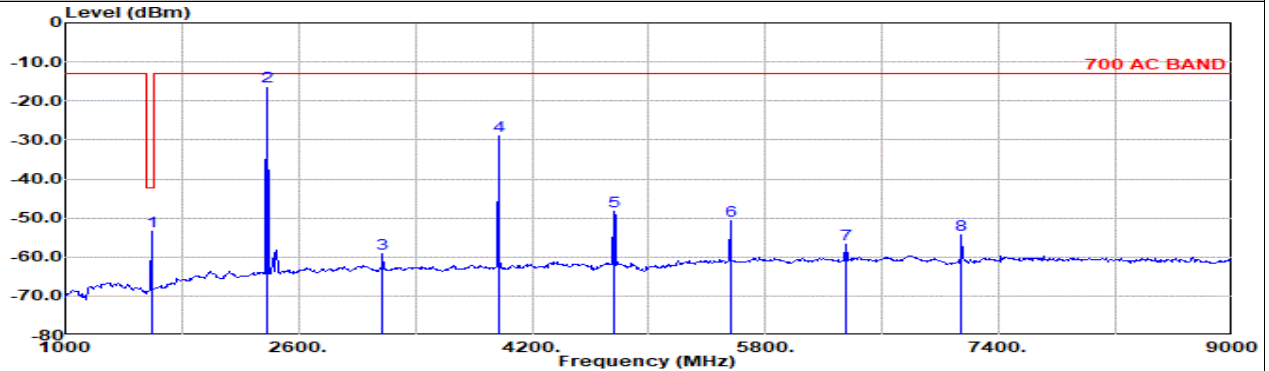
Ant. 5

Worst plane :NB With Accessory

Part 90R Mode 7

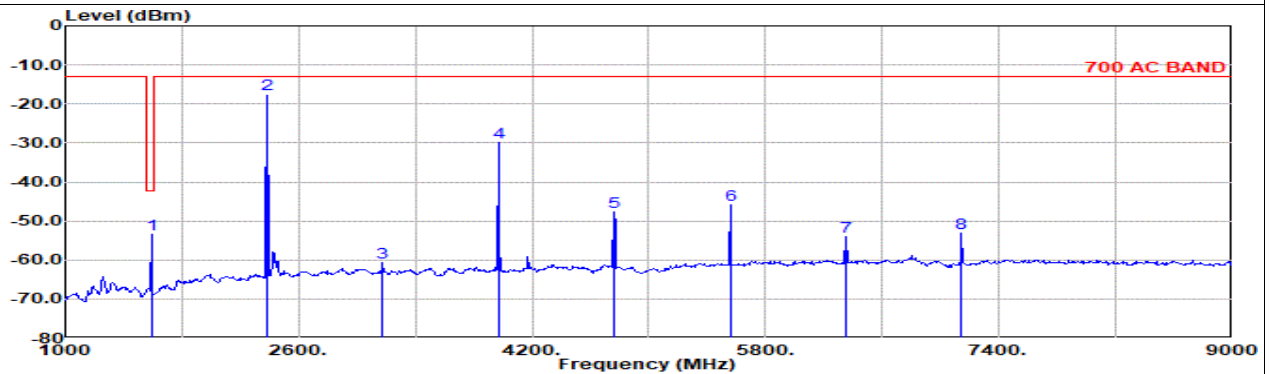
LTE CAT M1 B14 5M Ch23355 1RB0 QPSK

H



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 14 5M CH23355 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1592.00	-53.39	RMS	27.94	-52.26	0.31	-95.23	65.85	-42.15	-11.24	Horizontal
2	2384.00	-16.15	RMS	31.94	-50.57	0.37	-95.23	97.34	-13.00	-3.15	Horizontal
3	3176.00	-59.30	RMS	32.50	-49.30	0.14	-95.23	52.59	-13.00	-46.30	Horizontal
4	3968.00	-29.09	RMS	33.30	-48.84	0.51	-95.23	81.17	-13.00	-16.09	Horizontal
5	4760.00	-48.26	RMS	34.12	-47.27	0.15	-95.23	59.97	-13.00	-35.26	Horizontal
6	5560.00	-50.62	RMS	34.70	-44.08	0.39	-95.23	53.60	-13.00	-37.62	Horizontal
7	6352.00	-56.87	RMS	35.60	-42.32	0.26	-95.23	44.82	-13.00	-43.87	Horizontal
8	7144.00	-54.44	RMS	35.60	-43.01	0.38	-95.23	47.82	-13.00	-41.44	Horizontal



Site : 03CH07-HY
Condition: 700 AC BAND 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 14 5M CH23355 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1592.00	-53.43	RMS	27.94	-52.26	0.31	-95.23	65.81	-42.15	-11.28	Vertical
2	2384.00	-17.36	RMS	31.94	-50.57	0.37	-95.23	96.13	-13.00	-4.36	Vertical
3	3176.00	-60.58	RMS	32.50	-49.30	0.14	-95.23	51.31	-13.00	-47.58	Vertical
4	3968.00	-29.87	RMS	33.30	-48.84	0.51	-95.23	80.39	-13.00	-16.87	Vertical
5	4760.00	-47.71	RMS	34.12	-47.27	0.15	-95.23	60.52	-13.00	-34.71	Vertical
6	5560.00	-46.01	RMS	34.70	-44.08	0.39	-95.23	58.21	-13.00	-33.01	Vertical
7	6352.00	-54.06	RMS	35.60	-42.32	0.26	-95.23	47.63	-13.00	-41.06	Vertical
8	7144.00	-53.07	RMS	35.60	-43.01	0.38	-95.23	49.19	-13.00	-40.07	Vertical



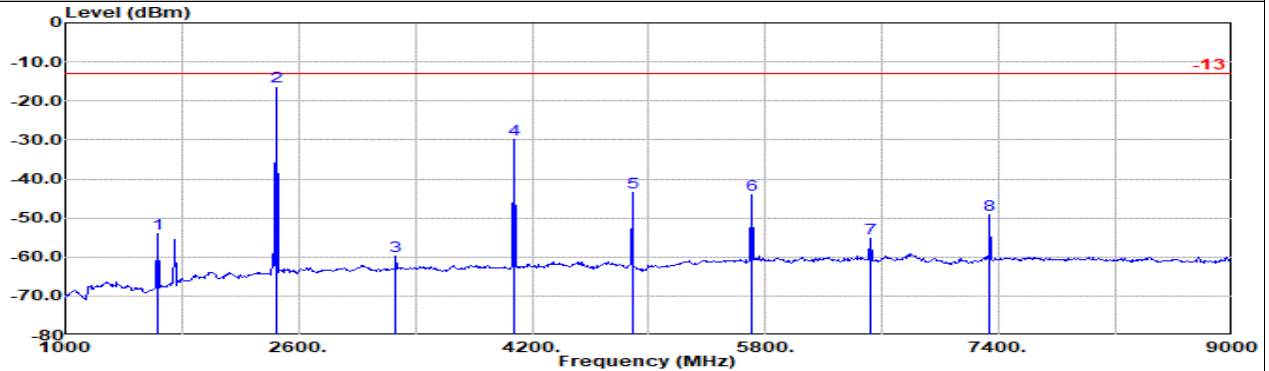
Ant. 5

Worst plane :NB With Accessory

Part 90S Mode 8

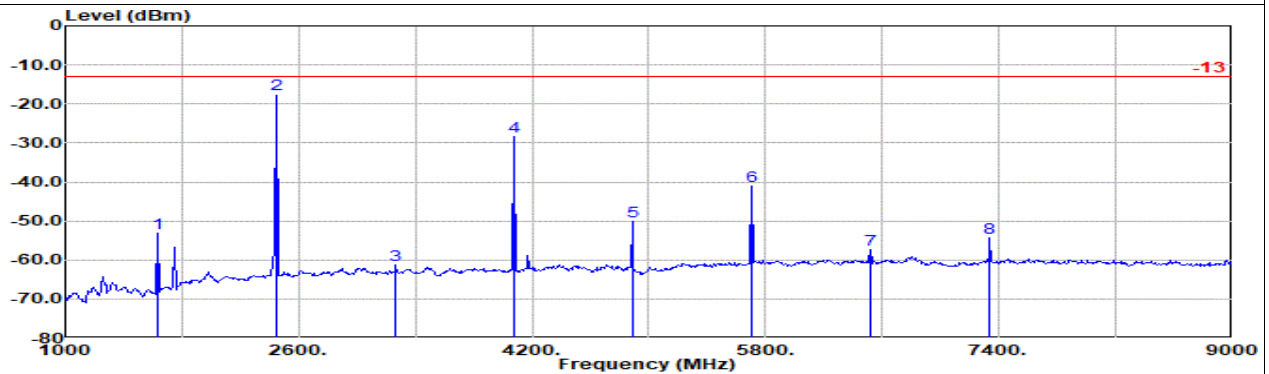
LTE CAT M1 B26 5M Ch26715 1RB0 QPSK

L



Site : 03CH07-HY
Condition: -13 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 26 5M CH26715 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1632.00	-54.19	RMS	28.52	-52.16	0.31	-95.23	64.37	-13.00	-41.19	Horizontal
2	2448.00	-16.39	RMS	31.98	-50.45	0.33	-95.23	96.98	-13.00	-3.39	Horizontal
3	3264.00	-59.62	RMS	32.73	-49.24	0.14	-95.23	51.98	-13.00	-46.62	Horizontal
4	4072.00	-29.76	RMS	33.29	-48.72	0.47	-95.23	80.43	-13.00	-16.76	Horizontal
5	4888.00	-43.42	RMS	34.28	-46.93	0.18	-95.23	64.28	-13.00	-30.42	Horizontal
6	5704.00	-44.22	RMS	35.20	-43.68	0.39	-95.23	59.10	-13.00	-31.22	Horizontal
7	6520.00	-55.35	RMS	35.54	-42.17	0.32	-95.23	46.19	-13.00	-42.35	Horizontal
8	7336.00	-49.14	RMS	35.80	-42.99	0.44	-95.23	52.84	-13.00	-36.14	Horizontal



Site : 03CH07-HY
Condition: -13 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 26 5M CH26715 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	1632.00	-53.01	RMS	28.52	-52.16	0.31	-95.23	65.55	-13.00	-40.01	Vertical
2	2448.00	-17.48	RMS	31.98	-50.45	0.33	-95.23	95.89	-13.00	-4.48	Vertical
3	3264.00	-61.33	RMS	32.73	-49.24	0.14	-95.23	50.27	-13.00	-48.33	Vertical
4	4072.00	-28.48	RMS	33.29	-48.72	0.47	-95.23	81.71	-13.00	-15.48	Vertical
5	4888.00	-50.09	RMS	34.28	-46.93	0.18	-95.23	57.61	-13.00	-37.09	Vertical
6	5704.00	-41.12	RMS	35.20	-43.68	0.39	-95.23	62.20	-13.00	-28.12	Vertical
7	6520.00	-57.25	RMS	35.54	-42.17	0.32	-95.23	44.29	-13.00	-44.25	Vertical
8	7336.00	-54.31	RMS	35.80	-42.99	0.44	-95.23	47.67	-13.00	-41.31	Vertical



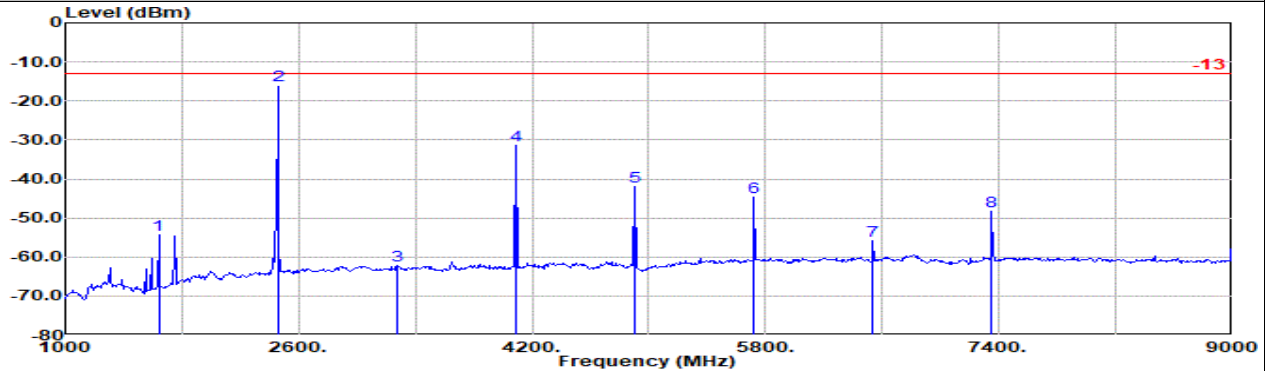
Ant. 5

Worst plane :NB With Accessory

Part 90S Mode 8

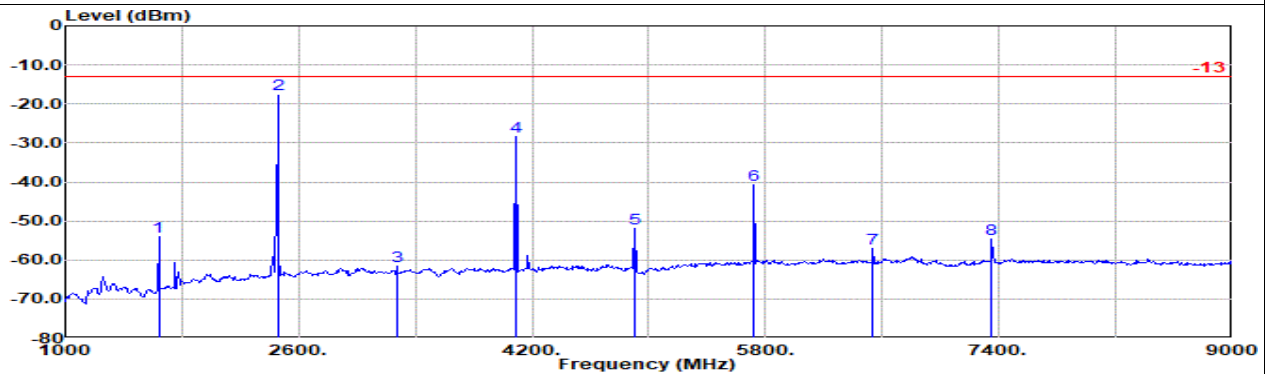
LTE CAT M1 B26 5M Ch26740 1RB0 QPSK

M



Site : 03CH07-HY
Condition: -13 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 26 5M CH26740 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1640.00	-54.43	RMS	28.60	-52.14	0.31	-95.23	64.03	-13.00	-41.43	Horizontal
2	2456.00	-16.08	RMS	32.06	-50.44	0.32	-95.23	97.21	-13.00	-3.08	Horizontal
3	3272.00	-62.15	RMS	32.74	-49.23	0.14	-95.23	49.43	-13.00	-49.15	Horizontal
4	4088.00	-31.31	RMS	33.35	-48.69	0.47	-95.23	78.79	-13.00	-18.31	Horizontal
5	4904.00	-42.11	RMS	34.31	-46.89	0.18	-95.23	65.52	-13.00	-29.11	Horizontal
6	5720.00	-44.73	RMS	35.20	-43.63	0.39	-95.23	58.54	-13.00	-31.73	Horizontal
7	6536.00	-55.95	RMS	35.57	-42.19	0.33	-95.23	45.57	-13.00	-42.95	Horizontal
8	7352.00	-48.27	RMS	35.80	-42.99	0.45	-95.23	53.70	-13.00	-35.27	Horizontal



Site : 03CH07-HY
Condition: -13 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 26 5M CH26740 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1640.00	-54.08	RMS	28.60	-52.14	0.31	-95.23	64.38	-13.00	-41.08	Vertical
2	2456.00	-17.40	RMS	32.06	-50.44	0.32	-95.23	95.89	-13.00	-4.40	Vertical
3	3272.00	-61.62	RMS	32.74	-49.23	0.14	-95.23	49.96	-13.00	-48.62	Vertical
4	4088.00	-28.51	RMS	33.35	-48.69	0.47	-95.23	81.59	-13.00	-15.51	Vertical
5	4904.00	-52.03	RMS	34.31	-46.89	0.18	-95.23	55.60	-13.00	-39.03	Vertical
6	5720.00	-40.75	RMS	35.20	-43.63	0.39	-95.23	62.52	-13.00	-27.75	Vertical
7	6536.00	-57.07	RMS	35.57	-42.19	0.33	-95.23	44.45	-13.00	-44.07	Vertical
8	7352.00	-54.76	RMS	35.80	-42.99	0.45	-95.23	47.21	-13.00	-41.76	Vertical



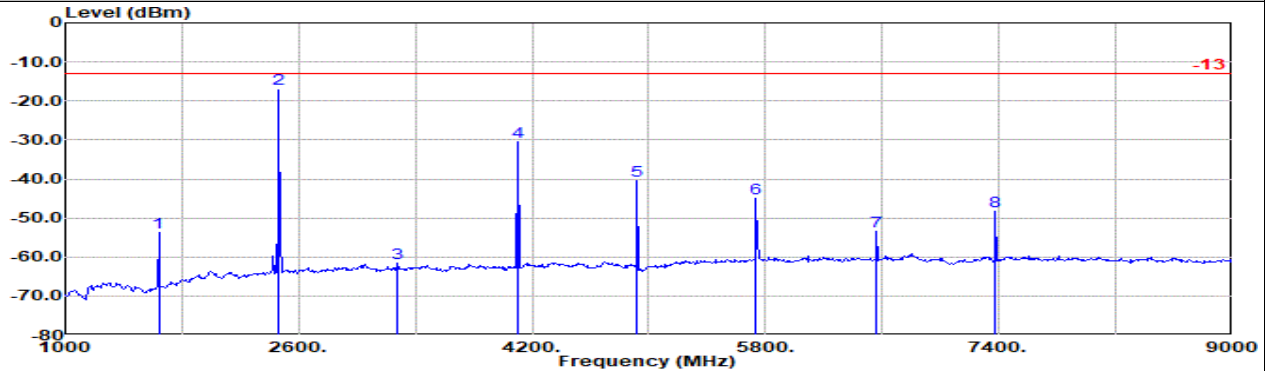
Ant. 5

Worst plane :NB With Accessory

Part 90S Mode 8

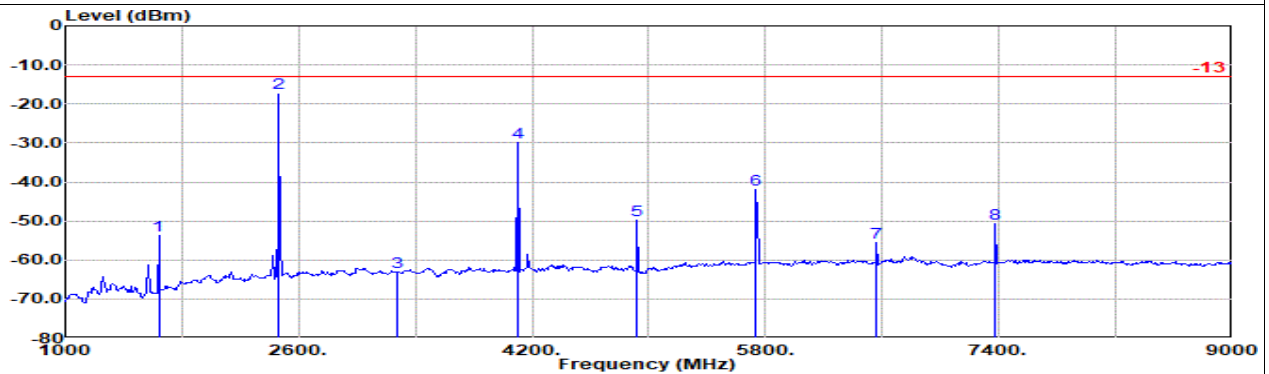
LTE CAT M1 B26 5M Ch26765 1RB0 QPSK

H



Site : 03CH07-HY
Condition: -13 3m HF_ANT_00075962 Horizontal
Mode : CatM1 Band 26 5M CH26765 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1640.00	-53.77	RMS	28.60	-52.14	0.31	-95.23	64.69	-13.00	-40.77	Horizontal
2	2464.00	-17.02	RMS	32.10	-50.42	0.31	-95.23	96.22	-13.00	-4.02	Horizontal
3	3280.00	-61.48	RMS	32.76	-49.22	0.14	-95.23	50.07	-13.00	-48.48	Horizontal
4	4104.00	-30.38	RMS	33.42	-48.67	0.46	-95.23	79.64	-13.00	-17.38	Horizontal
5	4920.00	-40.57	RMS	34.34	-46.84	0.19	-95.23	66.97	-13.00	-27.57	Horizontal
6	5736.00	-45.02	RMS	35.20	-43.58	0.39	-95.23	58.20	-13.00	-32.02	Horizontal
7	6560.00	-53.33	RMS	35.58	-42.23	0.33	-95.23	48.22	-13.00	-40.33	Horizontal
8	7376.00	-48.31	RMS	35.75	-42.98	0.45	-95.23	53.70	-13.00	-35.31	Horizontal



Site : 03CH07-HY
Condition: -13 3m HF_ANT_00075962 Vertical
Mode : CatM1 Band 26 5M CH26765 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1640.00	-53.64	RMS	28.60	-52.14	0.31	-95.23	64.82	-13.00	-40.64	Vertical
2	2464.00	-17.35	RMS	32.10	-50.42	0.31	-95.23	95.89	-13.00	-4.35	Vertical
3	3280.00	-63.11	RMS	32.76	-49.22	0.14	-95.23	48.44	-13.00	-50.11	Vertical
4	4104.00	-29.92	RMS	33.42	-48.67	0.46	-95.23	80.10	-13.00	-16.92	Vertical
5	4920.00	-49.66	RMS	34.34	-46.84	0.19	-95.23	57.88	-13.00	-36.66	Vertical
6	5736.00	-41.96	RMS	35.20	-43.58	0.39	-95.23	61.26	-13.00	-28.96	Vertical
7	6560.00	-55.61	RMS	35.58	-42.23	0.33	-95.23	45.94	-13.00	-42.61	Vertical
8	7376.00	-50.69	RMS	35.75	-42.98	0.45	-95.23	51.32	-13.00	-37.69	Vertical



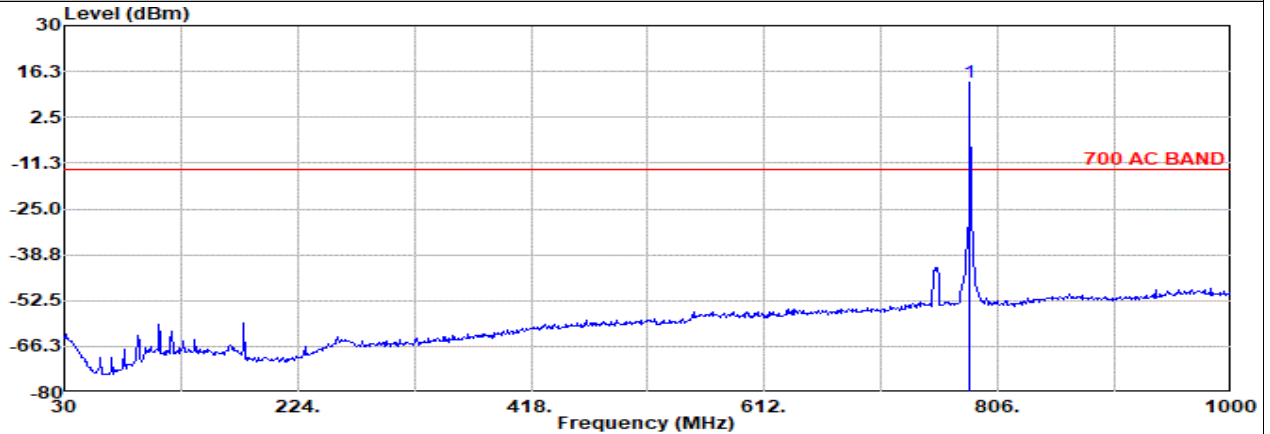
Ant. 5

Worst plane :TB (X) With Accessory

Part 27F Mode 1

LTE CAT M1 B13 5M Ch23255 1RB0 QPSK

H



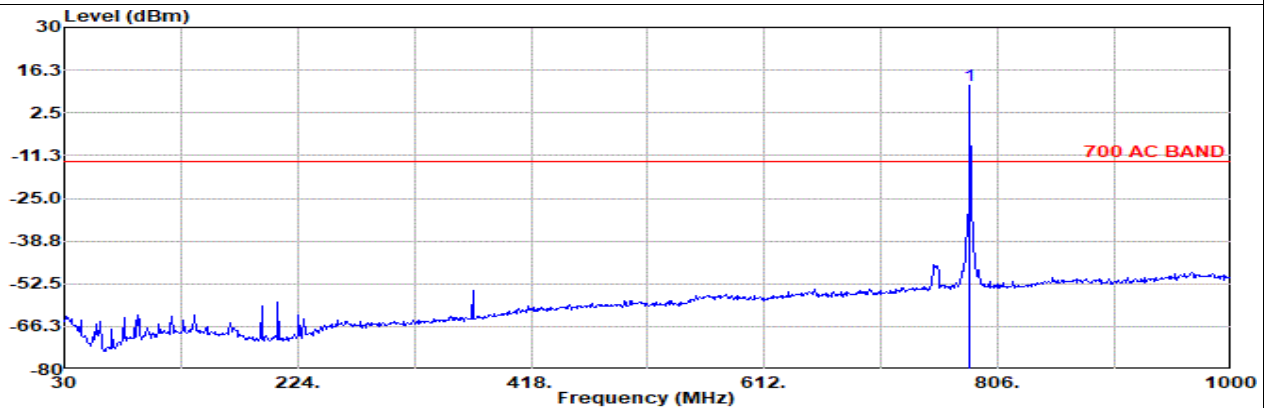
Site : 03CH07-HY

Condition: 700 AC BAND 3m Bilog_35419 Horizontal

Mode : LTE Band 13 5M Ch23255 1RB0 QPSK

#1 is fundamental signal which can be ignored.

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin Pol	
	MHz	dBm		Factor	1		g		dB	
1	782.72	13.00	RMS	27.80	4.96	0.00	-95.23	75.47	-13.00	26.00 Horizontal



Site : 03CH07-HY

Condition: 700 AC BAND 3m Bilog_35419 Vertical

Mode : LTE Band 13 5M Ch23255 1RB0 QPSK

#1 is fundamental signal which can be ignored.

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin Pol	
	MHz	dBm		Factor	1		g		dB	
1	782.72	11.37	RMS	27.80	4.96	0.00	-95.23	73.84	-13.00	24.37 Vertical

Remark: #1 is fundamental signal which can be ignored.