



FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00171A
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00171A
Series Model : TP00171A* (*=0-9, A-Z, a-z, "-" or blank, for marketing use only, with no impact on compliance of product)
Marketing Name : ThinkPad X1 2-in-1 Gen 11
Applicant : LCFC (HeFei) Electronics Technology Co., Ltd.
No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei
Economics & Technology Development Area, Anhui, CHINA
Manufacturer : Lenovo Ireland International Limited
Viscount House, 6/7 Fitzwilliam Square East, Dublin, D02 Y447,
Ireland
Standard : FCC 47 CFR Part 2, 96

Equipment: Rolling Wireless RW101R-GL tested inside of Lenovo Notebook Computer

The product was received on Dec. 09, 2025 and testing was performed from Jan. 10, 2026 to Jan. 28, 2026. 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. Wensan Laboratory



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History of this test report

Report No.	Version	Description	Issue Date
FG5D0923D	01	Initial issue of report	Feb. 04, 2026
FG5D0923D	02	Revise section 1.2. This report is an updated version, replacing the report issued on Feb. 04, 2026.	Mar. 04, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
-	§96.41	Peak-to-Average Ratio	Pass	See Note
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
-	§2.1049 §96.41	Occupied Bandwidth	Pass	See Note
-	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	See Note
-	§2.1051 §96.41	Conducted Spurious Emission	Pass	See Note
-	§2.1055	Frequency Stability for Temperature & Voltage	Pass	See Note
4.4	§2.1053 §96.41	Radiated Spurious Emission	Pass	-

Remark:

- For host device, Radiated Spurious Emission, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and comply with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: RW101R-GL)

Conformity Assessment Condition:

- 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.
- 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: Aya Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00171A
Sample 1	Amphenol Antenna
Sample 2	Speed Antenna
Integrated WLAN Module	Brand Name: Intel Model Name: BE211D2W FCC ID: PD9BE211D2
Integrated NFC Module	Brand Name: Foxconn Model Name: T77H747 FCC ID: MCLT77H747
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be EHT20/ EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer.
2. Equipment: Rolling Wireless RW101R-GL tested inside of Lenovo Notebook Computer.

Support band and evaluated information	
Supported band	B48
Evaluated and Tested band	B48

TDD band Power Class		
	PC3	PC2
B48	V	-

WWAN Antenna Information				
Main Antenna	Manufacturer	Amphenol	Peak gain (dBi)	LTE Band 48 : -1.41
	Part number	SA31Q71827	Type	PIFA
	Manufacturer	Speed	Peak gain (dBi)	LTE Band 48 : -1.41
	Part number	SA31Q71828	Type	PIFA

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

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Rx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Bandwidth	LTE Band 48: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 48: 20.60 dBm
Type of Modulation	QPSK / 16QAM

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Site

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010	
Test Site No.	Sporton Site No.	
	03CH13-HY	TH05-HY
Test Engineer	Rain Lee, Jacky Hung and White Hou	Wei Shun Hung
Temperature (°C)	20~26	22.3~22.9
Relative Humidity (%)	40~65	53.2~55.5

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

FCC Designation No.: TW3786

1.5 Applied Standards

According to the specifications declared by 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, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ 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.

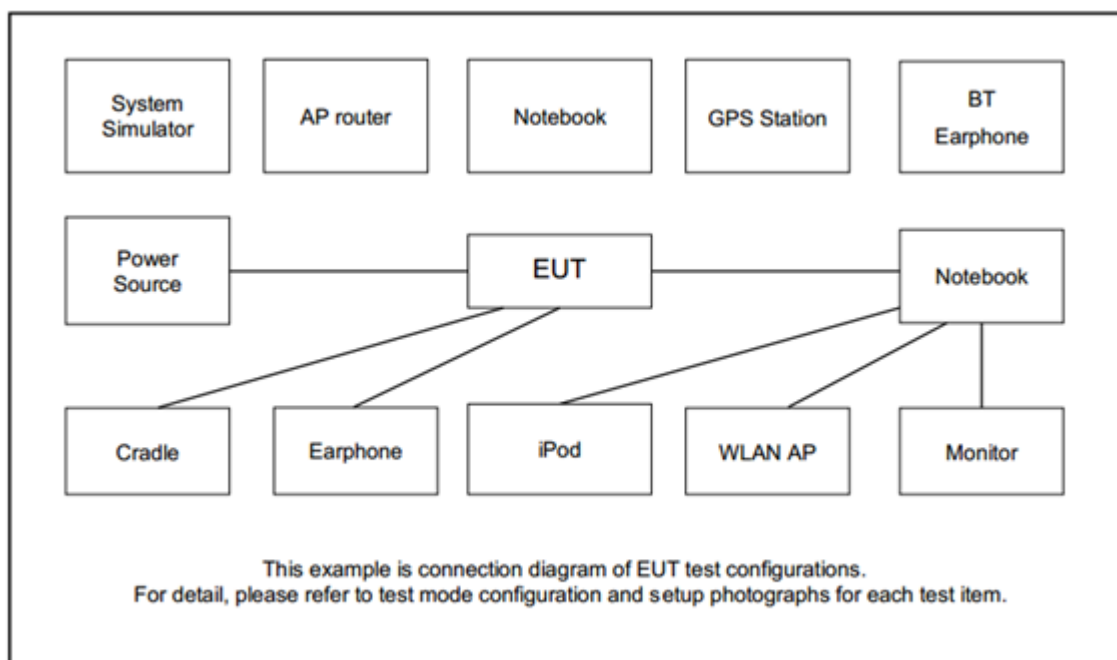
Modulation Type	Modulation
A	QPSK
B	16QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B	All	1RB	L, M, H
EIRP/ ERP	A, B	All	1RB	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.	Base Station	Anritsu	8821C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	SONY	MDR-EX15LP	N/A	Shielded, 1.2 m	N/A

2.4 Frequency List of Low/Middle/High Channels

LTE Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
	Frequency	3560	3625	3690
15	Channel	55315	55990	56665
	Frequency	3557.5	3625	3692.5
10	Channel	55290	55990	56690
	Frequency	3555	3625	3695
5	Channel	55265	55990	56715
	Frequency	3552.5	3625	3697.5

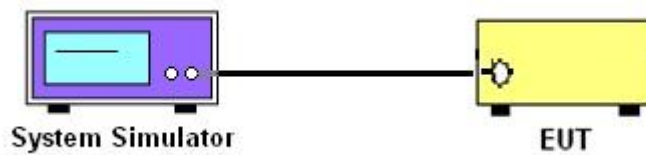
3 Conducted Test Items

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 Measurement

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 Test Procedures

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

3.3 EIRP

3.3.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5.

According to KDB 412172 D01 Power Approach,

$EIRP = PT + GT - LC$, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

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

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.3.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

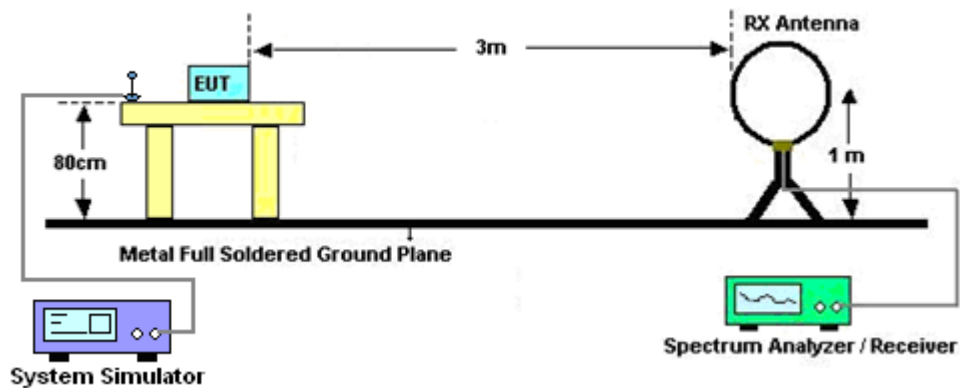
4 Radiated Test Items

4.1 Measuring Instruments

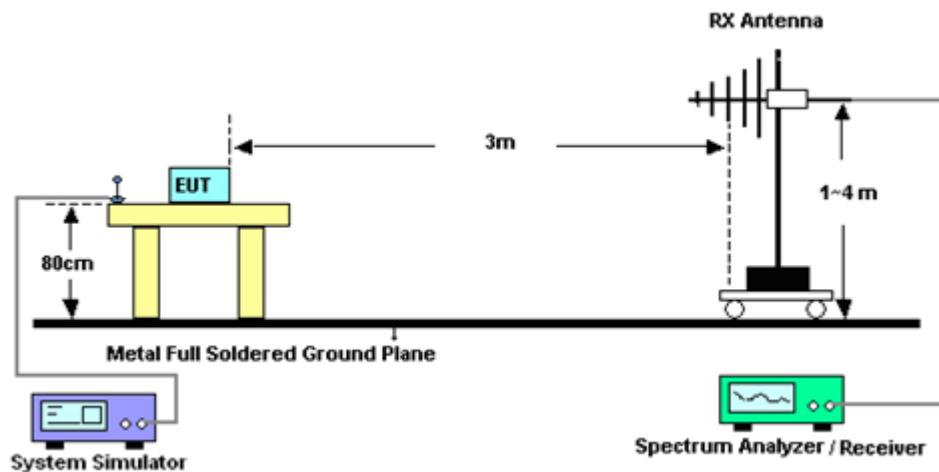
See list of measuring instruments of this test report.

4.2 Test Setup

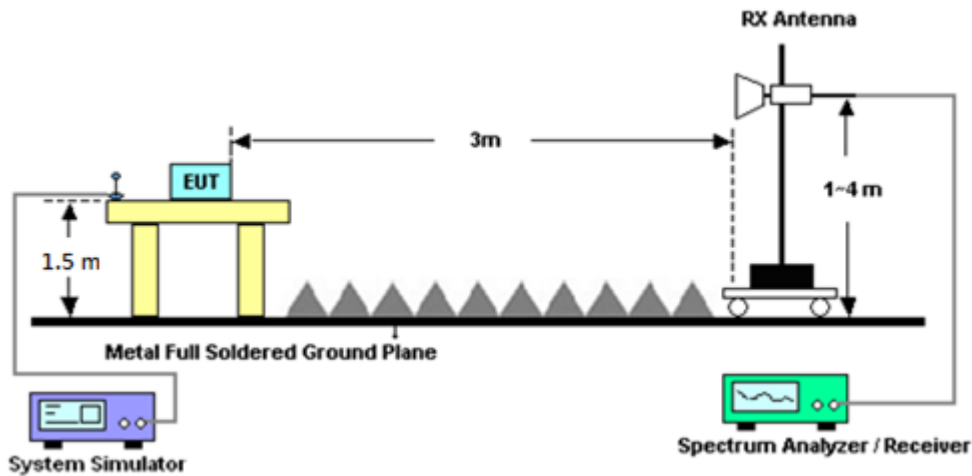
For radiated test below 30MHz



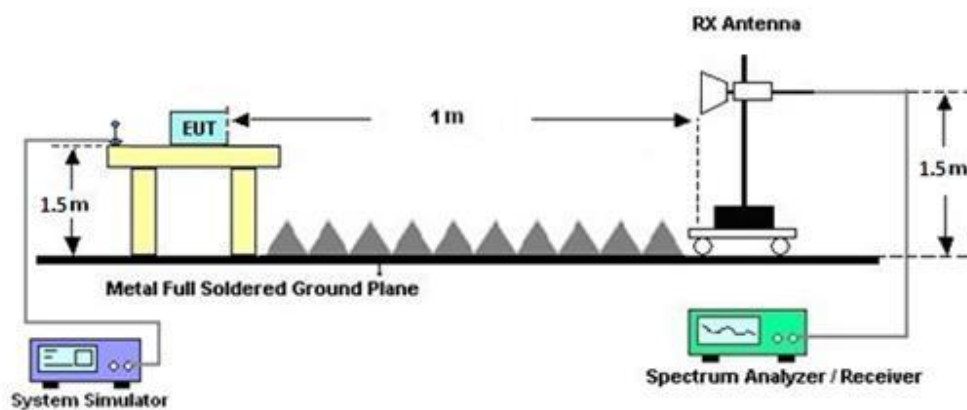
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 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.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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 -40dBm / MHz

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

4.4.2 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 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. 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
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Jan. 10, 2026~ Jan. 17, 2026	Dec. 10, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Jan. 10, 2026~ Jan. 17, 2026	Mar. 04, 2026	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 11, 2024	Jan. 10, 2026~ Jan. 17, 2026	Dec. 10, 2026	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	40103 & 07	30MHz~1GHz	Apr. 13, 2025	Jan. 10, 2026~ Jan. 17, 2026	Apr. 12, 2026	Radiation (03CH13-HY)
EXA Signal Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Dec. 05, 2025	Jan. 10, 2026~ Jan. 17, 2026	Dec. 04, 2026	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP215159	N/A	Sep. 08, 2025	Jan. 10, 2026~ Jan. 17, 2026	Sep. 07, 2026	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 14, 2025	Jan. 10, 2026~ Jan. 17, 2026	May 13, 2026	Radiation (03CH13-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Jan. 07, 2026	Jan. 10, 2026~ Jan. 17, 2026	Jan. 06, 2027	Radiation (03CH13-HY)
Double Ridged Guide Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz~18GHz	Sep. 03, 2025	Jan. 10, 2026~ Jan. 17, 2026	Sep. 02, 2026	Radiation (03CH13-HY)
Notch Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN12	1.53GHz Low Pass Filter	Sep. 10, 2025	Jan. 10, 2026~ Jan. 17, 2026	Sep. 09, 2026	Radiation (03CH13-HY)
Notch Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 08, 2025	Jan. 10, 2026~ Jan. 17, 2026	Jul. 07, 2026	Radiation (03CH13-HY)
Notch Filter	Wainwright	WHKX12-900 -1000-15000- 60SS	SN11	1GHz High Pass Filter	Mar. 12, 2025	Jan. 10, 2026~ Jan. 17, 2026	Mar. 11, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102E	508408-2E	N/A	Jun. 16, 2025	Jan. 10, 2026~ Jan. 17, 2026	Jun. 15, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 06, 2025	Jan. 10, 2026~ Jan. 17, 2026	Feb. 05, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30MHz~18GHz	Feb. 06, 2025	Jan. 10, 2026~ Jan. 17, 2026	Feb. 05, 2026	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 10, 2026~ Jan. 17, 2026	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Jan. 10, 2026~ Jan. 17, 2026	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 10, 2026~ Jan. 17, 2026	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-00239 2	N/A	N/A	Jan. 10, 2026~ Jan. 17, 2026	N/A	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Jan. 10, 2026~ Jan. 17, 2026	Jul. 01, 2026	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Jan. 10, 2026~ Jan. 17, 2026	May 25, 2026	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8 04012/2	18GHz-40GHz	Dec. 18, 2025	Jan. 10, 2026~ Jan. 17, 2026	Dec. 17, 2026	Radiation (03CH13-HY)
Radio Communication Analyzer	Anritsu	MT8821C	626202534 1	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Jan. 28, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET86154 6	0V~64V ; 0A~6A	Jun. 03, 2025	Jan. 28, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Y	0.5~18GHz	Oct. 16, 2025	Jan. 28, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Jan. 28, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May 12, 2025	Jan. 28, 2026	May 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Jan. 28, 2026	Jun. 12, 2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Jan. 28, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECEPIL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03, 2025	Jan. 28, 2026	Mar. 02, 2026	Conducted (TH05-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.6 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and EIRP)

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.49	20.48	20.31	19.08	0.0809
20	1	49		20.48	20.38	20.27		
20	1	99		20.45	20.32	20.28		
20	50	0		19.65	19.43	19.37		
20	50	24		19.63	19.42	19.29		
20	50	50		19.57	19.36	19.35		
20	100	0		19.55	19.39	19.36		
20	1	0	16-QAM	19.44	19.51	19.44	18.24	0.0667
20	1	49		19.50	19.51	19.39		
20	1	99		19.65	19.35	19.30		
20	50	0		18.70	18.49	18.40		
20	50	24		18.68	18.49	18.35		
20	50	50		18.64	18.43	18.36		
20	100	0		18.67	18.45	18.33		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.41	20.45	20.17	19.04	0.0802
15	1	37		20.45	20.29	20.15		
15	1	74		20.34	20.23	20.26		
15	36	0		19.50	19.37	19.30		
15	36	20		19.50	19.34	19.23		
15	36	39		19.43	19.22	19.21		
15	75	0		19.46	19.25	19.24		
15	1	0	16-QAM	19.34	19.45	19.37	18.09	0.0644
15	1	37		19.46	19.46	19.36		
15	1	74		19.50	19.31	19.20		
15	36	0		18.61	18.45	18.31		
15	36	20		18.55	18.47	18.23		
15	36	39		18.53	18.37	18.25		
15	75	0		18.59	18.30	18.29		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.38	20.33	20.26	19.00	0.0794
10	1	25		20.36	20.28	20.13		
10	1	49		20.41	20.17	20.19		
10	25	0		19.57	19.32	19.27		
10	25	12		19.56	19.27	19.23		
10	25	25		19.47	19.22	19.30		
10	50	0		19.48	19.35	19.34		
10	1	0	16-QAM	19.36	19.36	19.43	18.21	0.0662
10	1	25		19.47	19.46	19.31		
10	1	49		19.62	19.33	19.25		
10	25	0		18.58	18.39	18.34		
10	25	12		18.66	18.47	18.26		
10	25	25		18.52	18.41	18.25		
10	50	0		18.53	18.44	18.30		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	20.41	20.39	20.23	19.06	0.0805
5	1	12		20.47	20.26	20.17		
5	1	24		20.33	20.27	20.15		
5	12	0		19.52	19.40	19.29		
5	12	7		19.51	19.36	19.22		
5	12	13		19.43	19.32	19.33		
5	25	0		19.44	19.24	19.21		
5	1	0	16-QAM	19.42	19.37	19.35	18.13	0.0650
5	1	12		19.44	19.46	19.33		
5	1	24		19.54	19.26	19.19		
5	12	0		18.61	18.45	18.29		
5	12	7		18.55	18.38	18.30		
5	12	13		18.49	18.36	18.32		
5	25	0		18.66	18.42	18.22		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Appendix B. Radiated Spurious Emission Test Data

B1.Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	Amp/Cbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
24	LTE B48	Part 96	M	7232	-51.73	RMS	36.70	-45.47	0.96	-95.23	51.31	-40.00	-11.73	V	Main

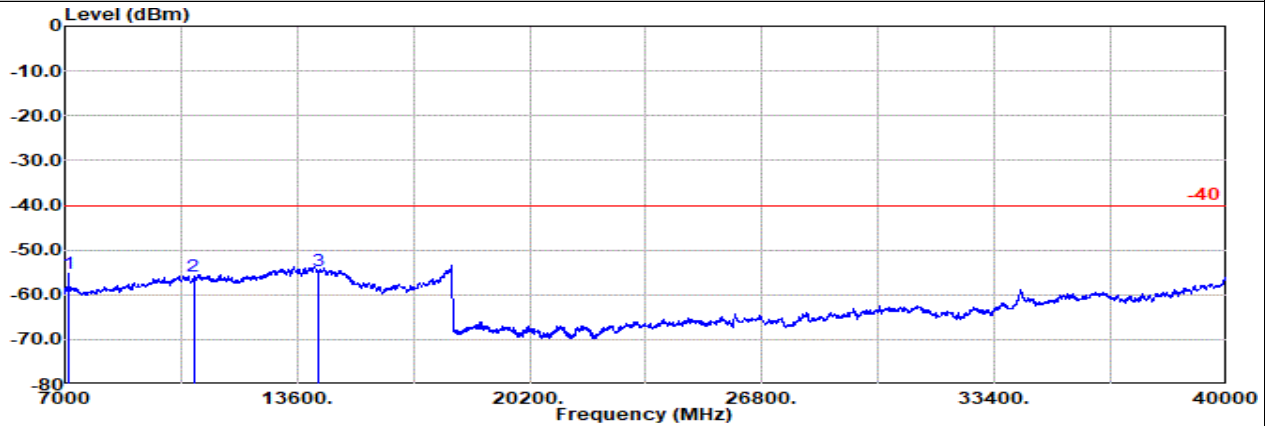


Ant. Main

Part 96 Mode 24

LTE B48 20M Ch55340 1RB0 QPSK

L

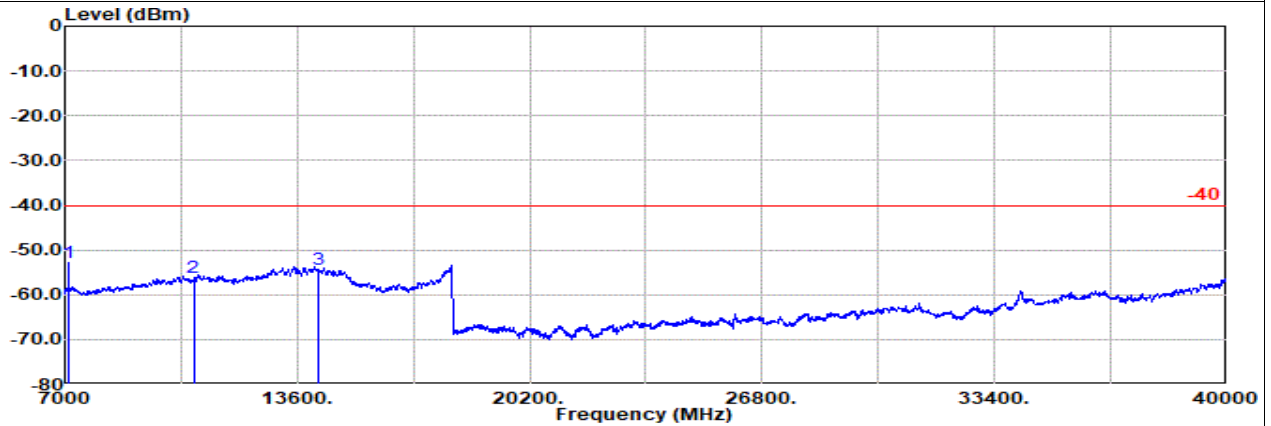


Site : 03CH13-HY

Condition: -40 1m SHF_1224 Horizontal

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	7102.00	-55.12	RMS	36.22	-45.37	1.11	-95.23	48.15	-40.00	-15.12	Horizontal	
2	10653.00	-55.83	RMS	39.10	-41.47	0.58	-95.23	41.19	-40.00	-15.83	Horizontal	
3	14204.00	-54.52	RMS	40.58	-39.38	0.73	-95.23	38.78	-40.00	-14.52	Horizontal	



Site : 03CH13-HY

Condition: -40 1m SHF_1224 Vertical

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	7102.00	-52.84	RMS	36.22	-45.37	1.11	-95.23	50.43	-40.00	-12.84	Vertical	
2	10653.00	-56.26	RMS	39.10	-41.47	0.58	-95.23	40.76	-40.00	-16.26	Vertical	
3	14204.00	-54.48	RMS	40.58	-39.38	0.73	-95.23	38.82	-40.00	-14.48	Vertical	

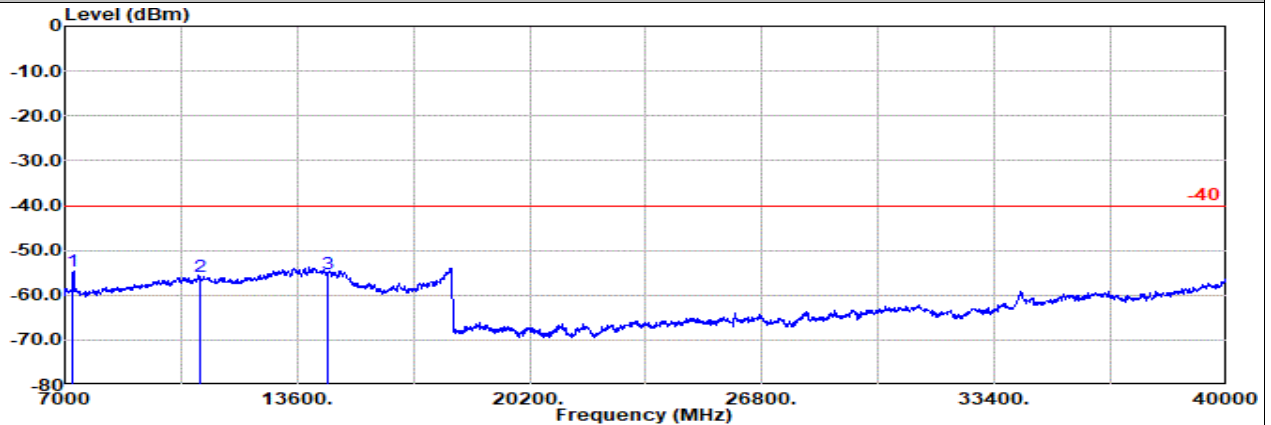


Ant. Main

Part 96 Mode 24

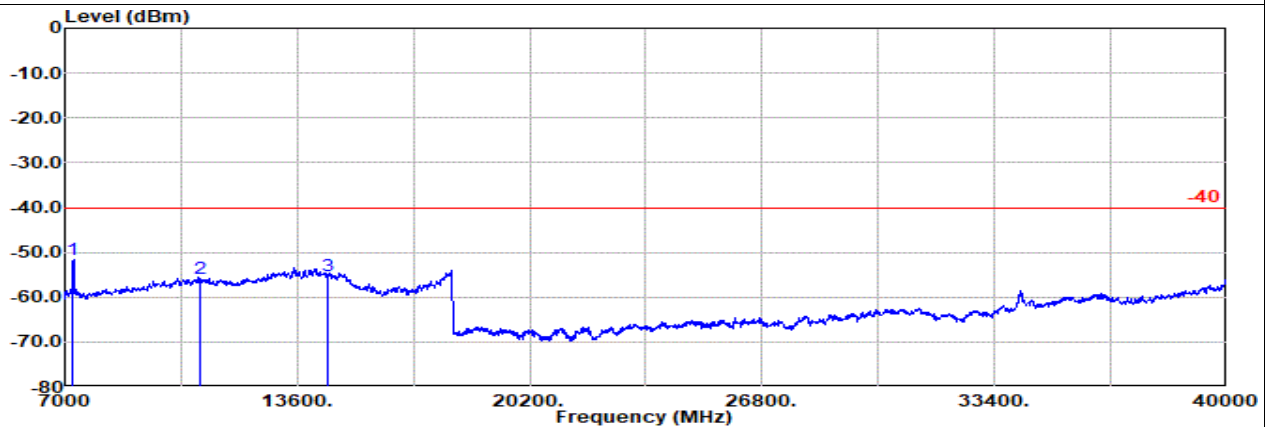
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH13-HY
Condition: -40 1m SHF_1224 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.00	-54.68	RMS	36.70	-45.47	0.96	-95.23	48.36	-40.00	-14.68 Horizontal
2	10848.00	-56.00	RMS	39.00	-41.22	0.54	-95.23	40.91	-40.00	-16.00 Horizontal
3	14464.00	-55.16	RMS	40.23	-38.91	0.69	-95.23	38.06	-40.00	-15.16 Horizontal



Site : 03CH13-HY
Condition: -40 1m SHF_1224 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.00	-51.73	RMS	36.70	-45.47	0.96	-95.23	51.31	-40.00	-11.73 Vertical
2	10848.00	-55.76	RMS	39.00	-41.22	0.54	-95.23	41.15	-40.00	-15.76 Vertical
3	14464.00	-55.29	RMS	40.23	-38.91	0.69	-95.23	37.93	-40.00	-15.29 Vertical

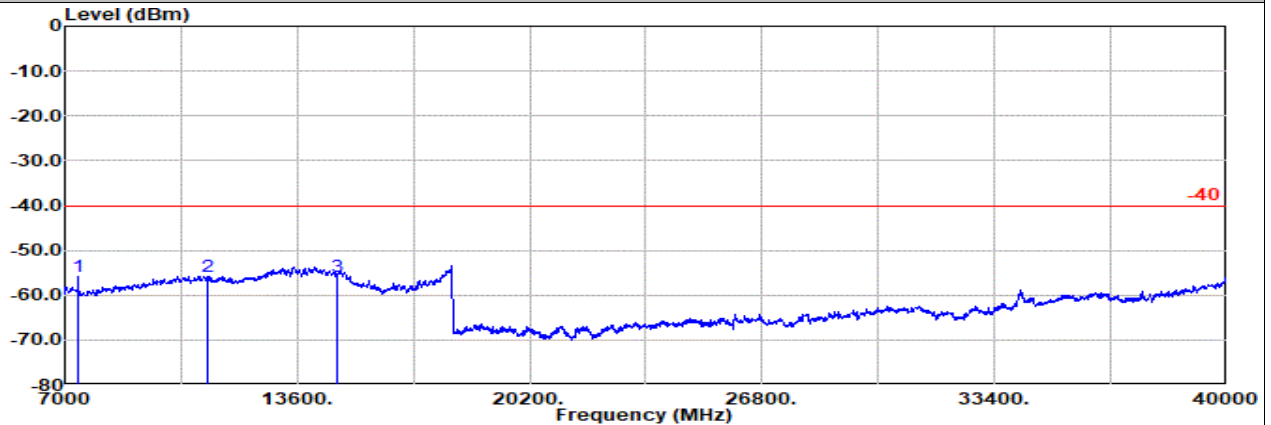


Ant. Main

Part 96 Mode 24

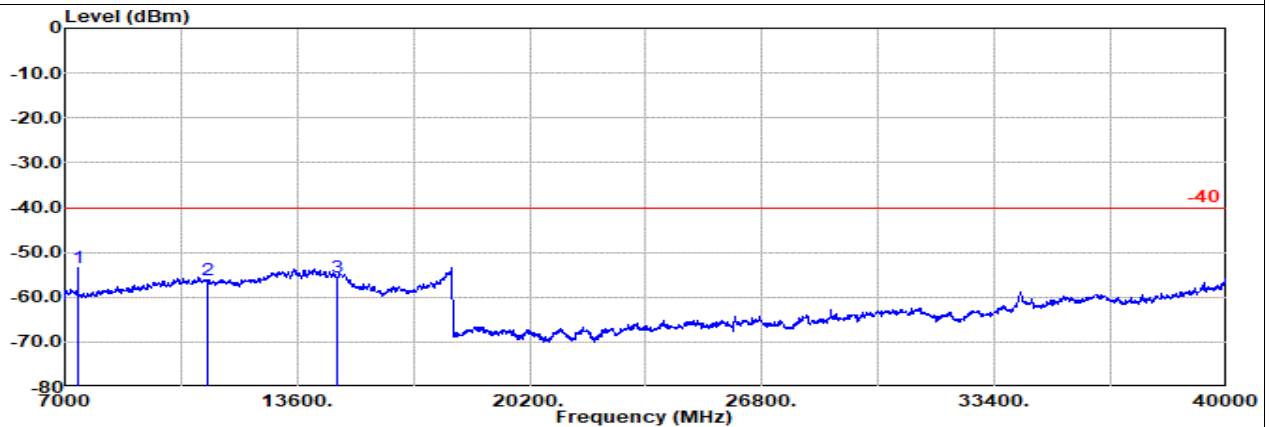
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH13-HY
Condition: -40 1m SHF_1224 Horizontal
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7362.00	-55.99	RMS	36.55	-45.56	0.86	-95.23	47.39	-40.00	-15.99 Horizontal
2	11043.00	-56.00	RMS	38.71	-40.96	0.51	-95.23	40.97	-40.00	-16.00 Horizontal
3	14724.00	-55.73	RMS	40.00	-38.51	0.66	-95.23	37.35	-40.00	-15.73 Horizontal



Site : 03CH13-HY
Condition: -40 1m SHF_1224 Vertical
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7362.00	-53.50	RMS	36.55	-45.56	0.86	-95.23	49.88	-40.00	-13.50 Vertical
2	11043.00	-56.10	RMS	38.71	-40.96	0.51	-95.23	40.87	-40.00	-16.10 Vertical
3	14724.00	-55.65	RMS	40.00	-38.51	0.66	-95.23	37.43	-40.00	-15.65 Vertical

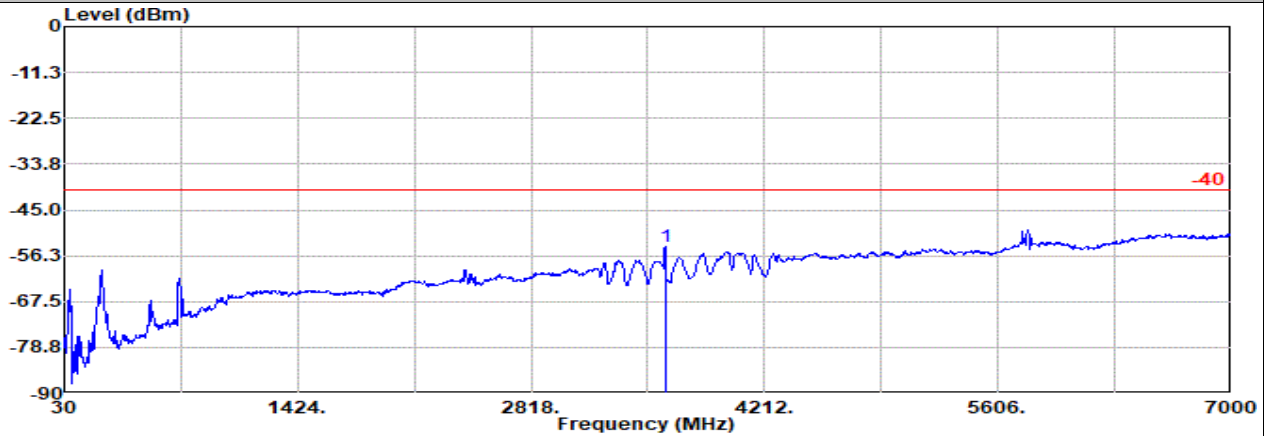


Ant. Main

Part 96 Mode 24

LTE B48 20M Ch55990 1RB0 QPSK

M



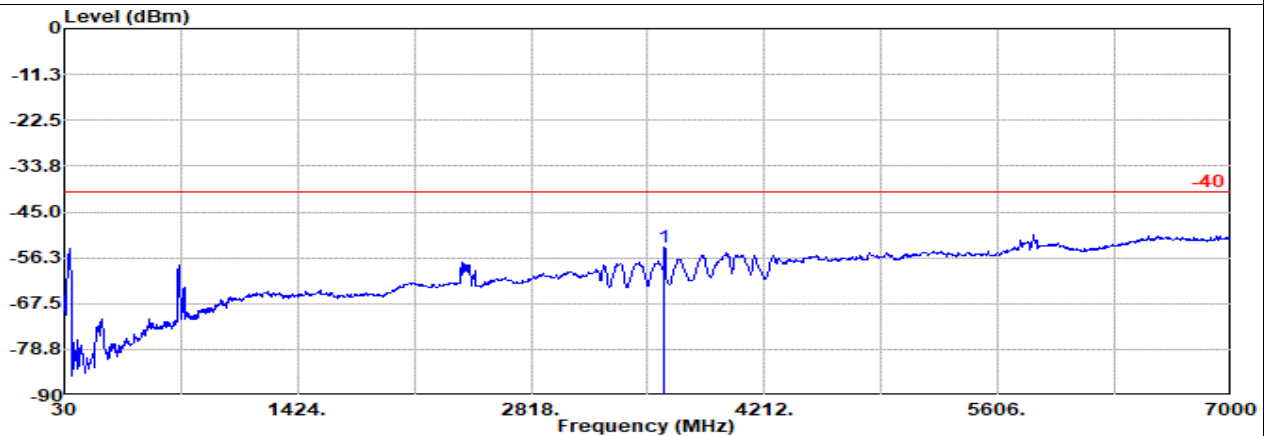
Site : 03CH13-HY

Condition: -40 3m HORN_9120D_1326 Horizontal

: LTE Band 48 20M Ch55990 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp	Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB		dBuV	dBm		
1	3622.00	-54.01	RMS	29.54	-28.71	0.57	-95.23	39.82	-----	-----	-----	Horizontal



Site : 03CH13-HY

Condition: -40 3m HORN_9120D_1326 Vertical

: LTE Band 48 20M Ch55990 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp	Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB		dBuV	dBm		
1	3616.00	-53.71	RMS	29.53	-28.71	0.57	-95.23	40.13	-----	-----	-----	Vertical