



FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00173A
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00173A
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: Foxconn T99W696 tested inside of Lenovo Notebook Computer

The product was received on Jan. 09, 2026 and testing was performed from Mar. 07, 2026 to Apr. 15, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures 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. Wensan 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
FG610913D	01	Initial issue of report	Apr. 23, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
-	ANSI C63.26	Peak-to-Average Ratio	Pass	See Note
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
		Power Density	Pass	-
-	§2.1049	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:

1. 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.
2. For host device, the Conducted Output Power is no difference after compared to module (Model: Foxconn T99W696)

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/manufacturer 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: Shannon Huang**

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00173A
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	WCMDA/LTE/5GNR/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: Foxconn T99W696 tested inside of Lenovo Notebook Computer.

Support band and evaluated information				
Supported band		B48, B48C		
Evaluated and Tested band		B48, B48C		
TDD band Power Class				
	PC3		PC2	
B48 / B48C	V		-	
WWAN Antenna Information				
Main Antenna	Manufacturer	Speed	Peak gain (dBi)	LTE Band 48 : 0.99
	Part number	DC33002BU00	Type	PIFA
MIMO2 Antenna	Manufacturer	Speed	Peak gain (dBi)	LTE Band 48 : -0.68
	Part number	DC33002BU30	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
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Site

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. 03CH07-HY
Test Engineer	Jesse Wang, Stan Hsieh, Ken Wu, and Oliver Wu
Temperature (°C)	19.7 ~ 24.6
Relative Humidity (%)	49.6 ~ 66.3
Remark	The Radiated Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	Jimmy Chang
Temperature (°C)	21.4 ~ 23.4
Relative Humidity (%)	46.2 ~ 54.2

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
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP
- ♦ 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 v03r01 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 three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

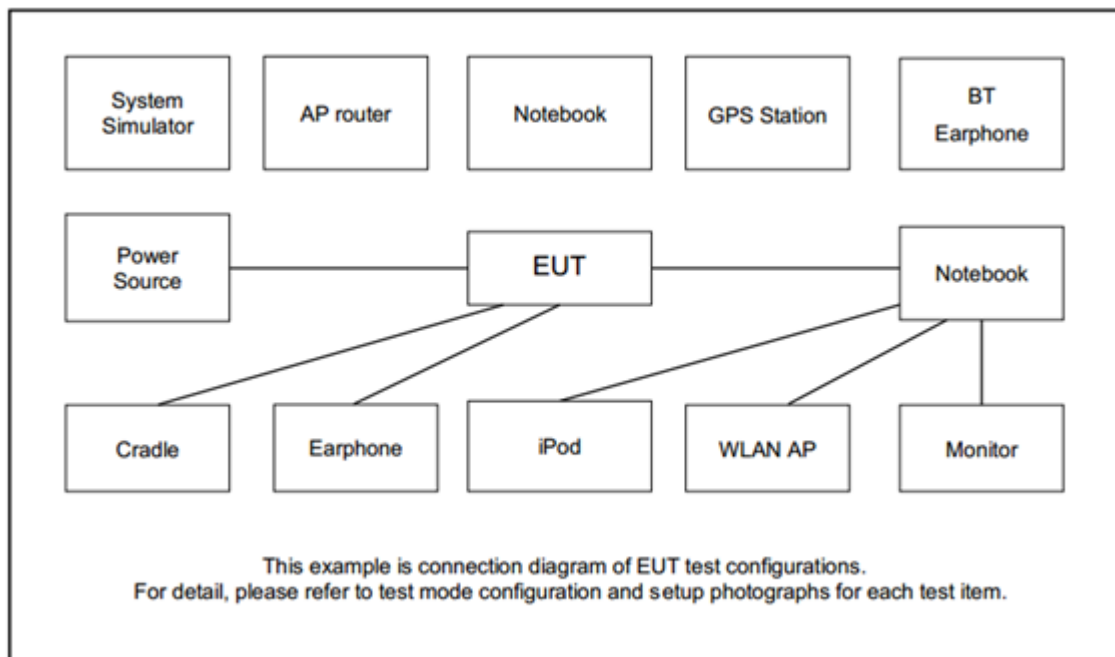
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP/ ERP	A, B, C, D	All	1, Half, Full	L, M, H
RSE	A	20 MHz	1RB	Remark 5

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.
4. For LTE B48 support SISO Mode Antenna Main and ENDC Antenna MIMO2, Radiated Spurious Emission is full test. Conducted test items are verified and the worst case is Antenna Main, Therefore, the report only performed Antenna Main test results.
5. Based on the module report RSE test results, verify the worst channel.

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.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Apple	N/A	N/A	Shielded, 1.2m	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



LTE Band 48C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	55340	55891	56442
		Frequency	3560	3615.1	3670.2
	SCC	Channel	55538	56089	56640
		Frequency	3579.8	3634.9	3690.0
20 + 15	PCC	Channel	55340	55916	56491
		Frequency	3560	3617.6	3675.1
	SCC	Channel	55511	56087	56662
		Frequency	3577.1	3634.7	3692.2
15 + 20	PCC	Channel	55318	55893	56469
		Frequency	3557.8	3615.3	3672.9
	SCC	Channel	55489	56064	56640
		Frequency	3574.9	3632.4	3690.0
20 + 10	PCC	Channel	55340	55941	56541
		Frequency	3560	3620.1	3680.1
	SCC	Channel	55484	56085	56685
		Frequency	3574.4	3634.5	3694.5
10 + 20	PCC	Channel	55295	55896	56496
		Frequency	3555.5	3615.6	3675.6
	SCC	Channel	55439	56040	56640
		Frequency	3569.9	3630	3690
20 + 5	PCC	Channel	55340	55965	56590
		Frequency	3560	3622.5	3685
	SCC	Channel	55457	56082	56707
		Frequency	3571.7	3634.2	3696.7
5 + 20	PCC	Channel	55273	55896	56523
		Frequency	3553.3	3615.6	3678.3
	SCC	Channel	55390	56015	56640
		Frequency	3565	3627.5	3690.0

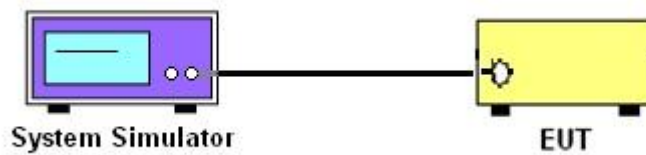
3 Conducted Test Items

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 and Power Density

3.3.1 Description of the EIRP and Power Density 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,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = 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.

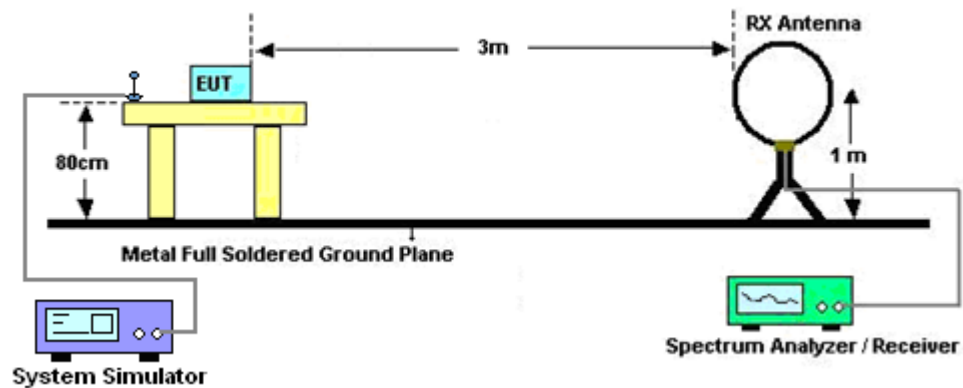
4 Radiated Test Items

4.1 Measuring Instruments

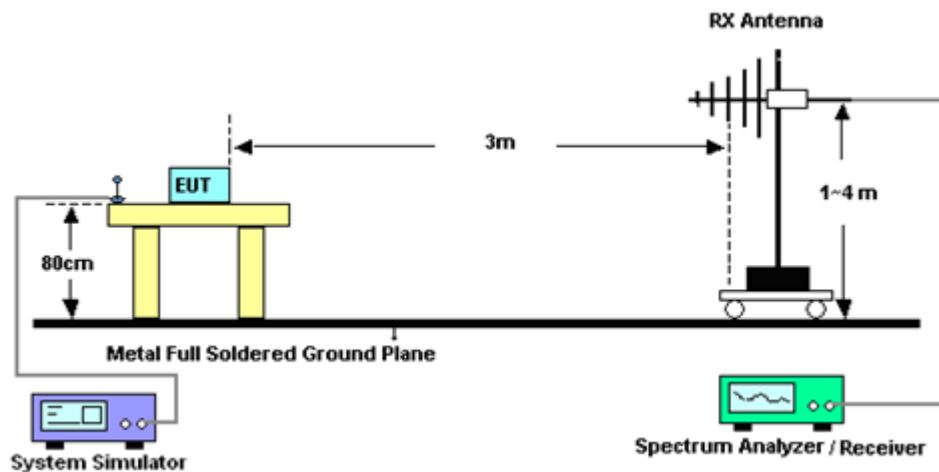
See list of measuring instruments of this test report.

4.2 Test Setup

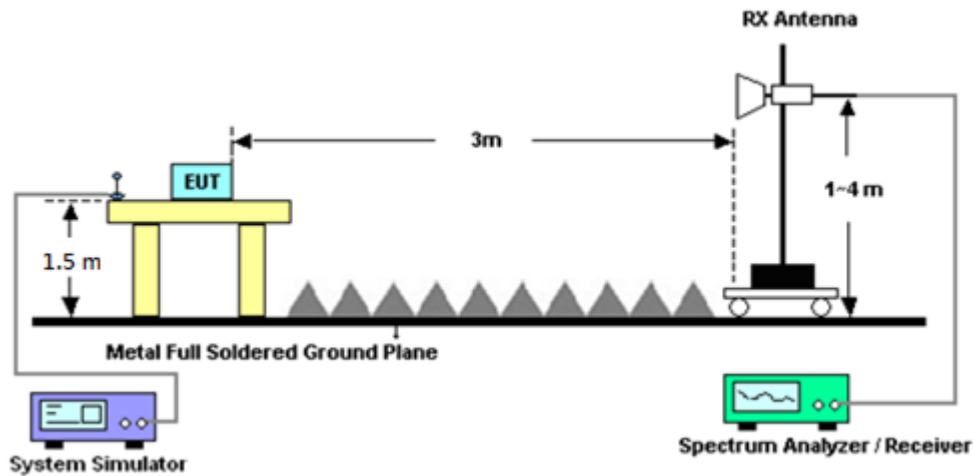
For radiated test below 30MHz



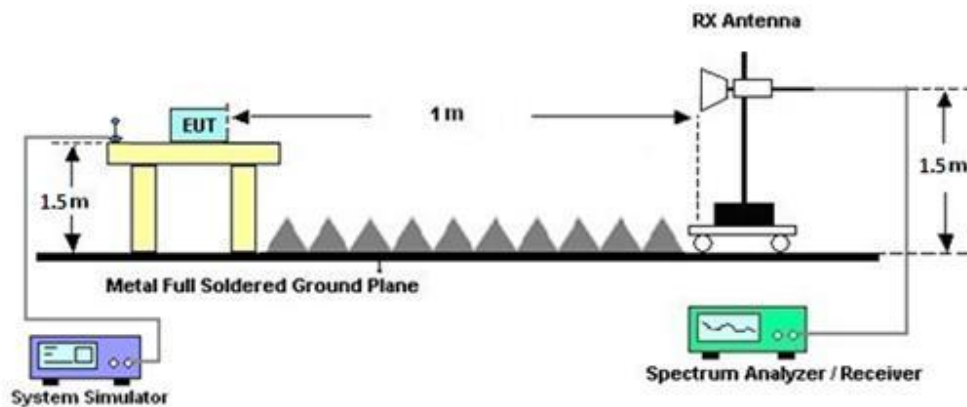
For radiated test from 30MHz to 1GHz



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 C63.26-2015.

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 5.5.7 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
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D0 1N-06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Apr. 20, 2026	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Dec. 10, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz~18GHz	Apr. 18, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 08, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Aug. 07, 2026	Radiation (03CH07-HY)
Signal Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Mar. 07, 2026 ~ Mar. 26, 2026	Mar. 27, 2026	Radiation (03CH07-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 26, 2025	Mar. 26, 2026 ~ Apr. 15, 2026	Nov. 25, 2026	Radiation (03CH07-HY)
Double Ridged Guide Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Dec. 09, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Dec. 08, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 19, 2026	Mar. 07, 2026 ~ Apr. 15, 2026	Feb. 18, 2027	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 19, 2026	Mar. 07, 2026 ~ Apr. 15, 2026	Feb. 18, 2027	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 19, 2026	Mar. 07, 2026 ~ Apr. 15, 2026	Feb. 18, 2027	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Mar. 07, 2026 ~ Apr. 15, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500 E	N/A	Boresight mast 1M~4M	N/A	Mar. 07, 2026 ~ Apr. 15, 2026	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Mar. 07, 2026 ~ Apr. 15, 2026	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Mar. 07, 2026 ~ Apr. 15, 2026	N/A	Radiation (03CH07-HY)
Software	Audix	E3	RK-002396	N/A	N/A	Mar. 07, 2026 ~ Apr. 15, 2026	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 02, 2026	Mar. 07, 2026 ~ Apr. 15, 2026	Mar. 01, 2027	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA917025 1	18GHz-40GHz	Dec. 09, 2025	Mar. 07, 2026 ~ Apr. 15, 2026	Dec. 08, 2026	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	PSS-2005	EL890089	1V~20V 0.5A~5A	Jan. 24, 2026	Apr. 10, 2026 ~ Apr. 13, 2026	Jan. 23, 2027	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 10, 2025	Apr. 10, 2026 ~ Apr. 13, 2026	Sep. 09, 2026	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 04, 2026	Apr. 10, 2026 ~ Apr. 13, 2026	Mar. 03, 2027	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8000A	6262148275	FR1	Oct. 14, 2025	Apr. 10, 2026 ~ Apr. 13, 2026	Oct. 13, 2026	Conducted (TH05-HY)
Power divider	MVE	MVE8283	F201918	9KHz~40GHz	Dec. 31, 2025	Apr. 10, 2026 ~ Apr. 13, 2026	Dec. 30, 2026	Conducted (TH05-HY)
RF Cable	MVE	MCBL-LL40 3P.50	E80002C	9KHz~40GHz	Aug. 01, 2025	Apr. 10, 2026 ~ Apr. 13, 2026	Jul. 31, 2026	Conducted (TH05-HY)
Software 2	Sporton	PLMN12Tools Ver1.0(2021-06-21)	N/A	CSE	N/A	Apr. 10, 2026 ~ Apr. 13, 2026	N/A	Conducted (TH05-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 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 = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.18	20.66	20.81	21.80	0.1514
20	1	49		20.15	20.63	20.79		
20	1	99		20.12	20.59	20.77		
20	50	0		19.22	19.78	19.86		
20	50	24		19.15	19.65	19.84		
20	50	50		19.17	19.73	19.82		
20	100	0		19.18	19.67	19.81		
20	1	0	16-QAM	19.09	19.57	19.77	20.82	0.1208
20	1	49		19.15	19.66	19.78		
20	1	99		19.11	19.71	19.83		
20	50	0		18.14	18.55	18.72		
20	50	24		18.14	18.67	18.81		
20	50	50		18.14	18.70	18.85		
20	100	0		18.13	18.68	18.77		
20	1	0	64-QAM	18.12	18.55	18.72	19.84	0.0964
20	1	49		18.12	18.62	18.75		
20	1	99		18.11	18.59	18.85		
20	50	0		17.07	17.59	17.70		
20	50	24		17.16	17.64	17.79		
20	50	50		17.11	17.67	17.83		
20	100	0		17.17	17.62	17.80		
20	1	0	256-QAM	15.16	15.46	15.70	16.82	0.0481
20	1	49		15.09	15.66	15.81		
20	1	99		15.13	15.59	15.75		
20	50	0		15.15	15.60	15.74		
20	50	24		15.23	15.62	15.79		
20	50	50		15.24	15.66	15.83		
20	100	0		15.21	15.64	15.78		
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 = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.04	20.62	20.78	21.77	0.1503
15	1	37		20.08	20.51	20.70		
15	1	74		20.09	20.49	20.65		
15	36	0		19.15	19.66	19.78		
15	36	20		19.00	19.64	19.73		
15	36	39		19.06	19.58	19.71		
15	75	0		19.14	19.56	19.67		
15	1	0	16-QAM	19.03	19.44	19.71	20.74	0.1186
15	1	37		19.11	19.58	19.72		
15	1	74		19.00	19.68	19.75		
15	36	0		18.11	18.54	18.68		
15	36	20		18.05	18.54	18.78		
15	36	39		18.11	18.57	18.71		
15	75	0		18.07	18.64	18.66		
15	1	0	64-QAM	18.06	18.43	18.68	19.76	0.0946
15	1	37		18.01	18.56	18.73		
15	1	74		18.07	18.58	18.77		
15	36	0		17.01	17.46	17.62		
15	36	20		17.13	17.59	17.75		
15	36	39		17.01	17.65	17.81		
15	75	0		17.15	17.53	17.66		
15	1	0	256-QAM	15.05	15.33	15.68	16.73	0.0471
15	1	37		15.07	15.59	15.68		
15	1	74		15.11	15.57	15.66		
15	36	0		15.13	15.46	15.70		
15	36	20		15.21	15.53	15.66		
15	36	39		15.18	15.62	15.74		
15	75	0		15.14	15.63	15.67		
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 = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.04	20.53	20.76	21.76	0.1500
10	1	25		20.14	20.55	20.77		
10	1	49		20.02	20.50	20.69		
10	25	0		19.20	19.64	19.72		
10	25	12		19.03	19.51	19.71		
10	25	25		19.15	19.70	19.69		
10	50	0		19.05	19.61	19.79		
10	1	0	16-QAM	19.00	19.44	19.75	20.74	0.1186
10	1	25		19.10	19.63	19.75		
10	1	49		19.06	19.56	19.71		
10	25	0		18.12	18.52	18.61		
10	25	12		18.10	18.55	18.70		
10	25	25		18.01	18.69	18.78		
10	50	0		18.06	18.60	18.64		
10	1	0	64-QAM	18.02	18.41	18.57	19.78	0.0951
10	1	25		18.08	18.52	18.64		
10	1	49		18.06	18.47	18.79		
10	25	0		17.01	17.54	17.66		
10	25	12		17.11	17.57	17.69		
10	25	25		17.08	17.60	17.76		
10	50	0		17.16	17.59	17.76		
10	1	0	256-QAM	15.06	15.37	15.63	16.75	0.0473
10	1	25		15.00	15.58	15.71		
10	1	49		15.06	15.45	15.70		
10	25	0		15.04	15.52	15.71		
10	25	12		15.10	15.56	15.76		
10	25	25		15.17	15.63	15.71		
10	50	0		15.11	15.60	15.73		
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 = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	20.07	20.63	20.74	21.74	0.1493
5	1	12		20.14	20.61	20.75		
5	1	24		20.03	20.45	20.65		
5	12	0		19.14	19.70	19.79		
5	12	7		19.02	19.55	19.75		
5	12	13		19.11	19.71	19.74		
5	25	0		19.07	19.65	19.79		
5	1	0	16-QAM	19.06	19.52	19.68	20.76	0.1191
5	1	12		19.09	19.64	19.74		
5	1	24		19.07	19.56	19.77		
5	12	0		18.13	18.54	18.59		
5	12	7		18.04	18.63	18.70		
5	12	13		18.07	18.66	18.83		
5	25	0		18.00	18.54	18.62		
5	1	0	64-QAM	18.03	18.49	18.65	19.75	0.0944
5	1	12		18.00	18.60	18.61		
5	1	24		18.07	18.55	18.76		
5	12	0		17.01	17.51	17.68		
5	12	7		17.14	17.62	17.77		
5	12	13		17.00	17.64	17.80		
5	25	0		17.06	17.59	17.75		
5	1	0	256-QAM	15.09	15.39	15.69	16.76	0.0474
5	1	12		15.01	15.59	15.66		
5	1	24		15.06	15.51	15.65		
5	12	0		15.02	15.47	15.66		
5	12	7		15.13	15.59	15.69		
5	12	13		15.22	15.60	15.77		
5	25	0		15.16	15.54	15.73		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = 0.99 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	1	99	1	0	QPSK	20.23	20.44	20.62	21.61	0.1449
20+20	1	99	1	0	16-QAM	19.90	20.07	20.29	21.28	0.1343
20+15	1	99	1	0	QPSK	20.32	20.47	20.69	21.68	0.1472
20+15	1	99	1	0	16-QAM	19.85	20.09	20.35	21.34	0.1361
15+20	1	74	1	0	QPSK	20.22	20.46	20.64	21.63	0.1455
15+20	1	74	1	0	16-QAM	19.83	20.10	20.37	21.36	0.1368
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = 0.99 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	1	99	1	0	QPSK	20.27	20.52	20.82	21.81	0.1517
20+10	1	99	1	0	16-QAM	19.86	20.16	20.50	21.49	0.1409
10+20	1	49	1	0	QPSK	20.18	20.45	20.66	21.65	0.1462
10+20	1	49	1	0	16-QAM	19.82	20.12	20.41	21.40	0.1380
20+5	1	99	1	0	QPSK	20.33	20.56	20.91	21.90	0.1549
20+5	1	99	1	0	16-QAM	19.90	20.54	20.63	21.62	0.1452
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = 0.99 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	1	24	1	0	QPSK	20.18	20.48	20.70	21.69	0.1476
5+20	1	24	1	0	16-QAM	19.77	20.07	20.38	21.37	0.1371
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

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Relative Humidity(%):	19.7 ~ 22.6
		Temperature(°C):	49.6 ~ 66.3

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
1	LTE B48	Part 96	M	7242	-41.63	RMS	36.10	-42.67	0.98	-95.23	59.19	-40.00	-1.63	H	Main
2	EN-DC B48+n5	Part 96	M	7236	-44.79	RMS	36.10	-42.67	0.98	-95.23	56.03	-40.00	-4.79	H	MIMO2+Main
3	LTE CA 48C	Part 96	M	7253	-51.01	RMS	36.09	-42.69	0.96	-95.23	49.86	-40.00	-11.01	V	Main

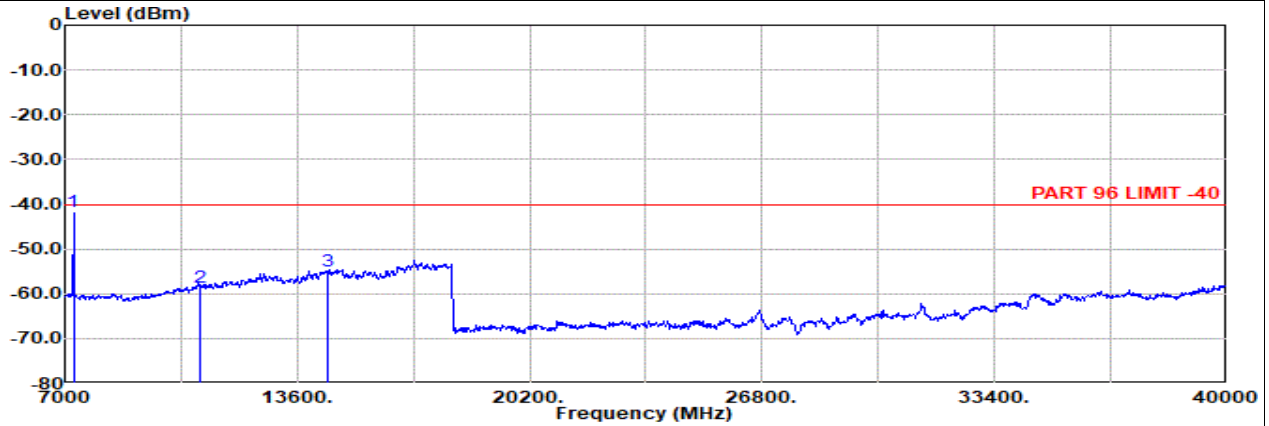


Ant. Main

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

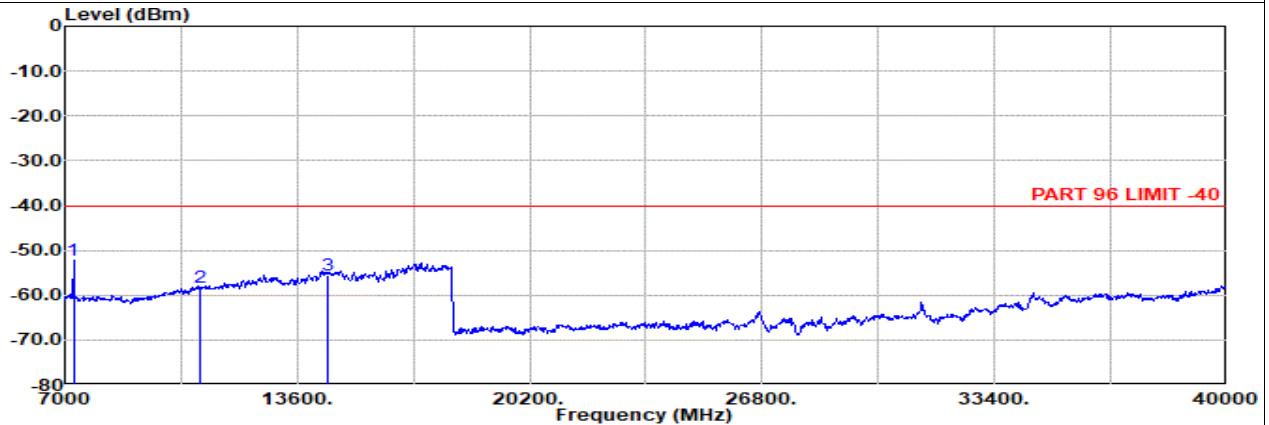


Site : 03CH07-HY

Condition: PART 96 LIMIT -40 1m SHF-EHF_9170251 Horizontal

Mode : LTE Band 48 20M Ch55990 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	7242.00	-41.63	RMS	36.10	-42.67	0.98	-95.23	59.19	-40.00	-1.63	Horizontal	
2	10845.00	-58.45	RMS	38.00	-40.37	0.49	-95.23	38.66	-40.00	-18.45	Horizontal	
3	14460.00	-54.98	RMS	39.62	-36.36	0.71	-95.23	36.28	-40.00	-14.98	Horizontal	



Site : 03CH07-HY

Condition: PART 96 LIMIT -40 1m SHF-EHF_9170251 Vertical

Mode : LTE Band 48 20M Ch55990 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	7242.00	-52.16	RMS	36.10	-42.67	0.98	-95.23	48.66	-40.00	-12.16	Vertical	
2	10845.00	-58.40	RMS	38.00	-40.37	0.49	-95.23	38.71	-40.00	-18.40	Vertical	
3	14460.00	-55.52	RMS	39.62	-36.36	0.71	-95.23	35.74	-40.00	-15.52	Vertical	

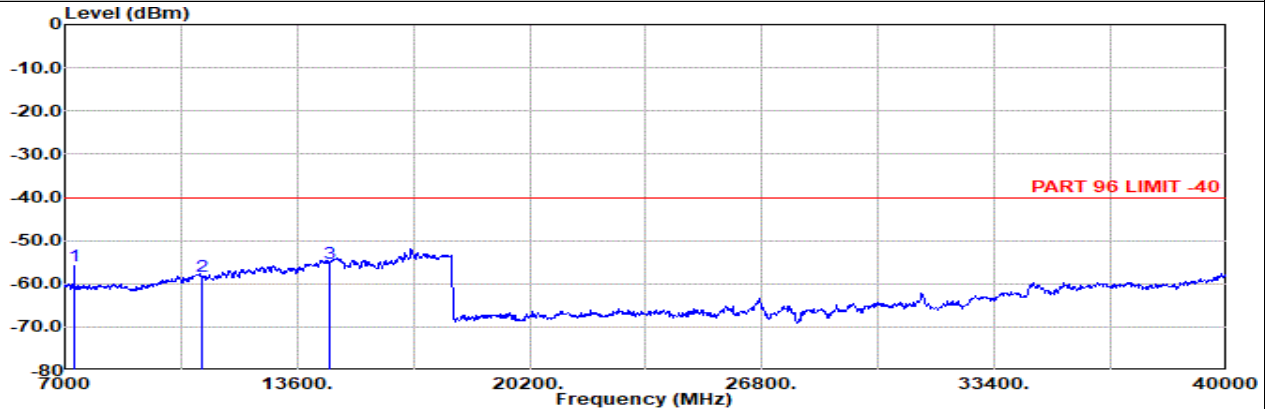


Ant. Main

Part 96 Mode 3

LTE CA 48C Ch55891 + Ch56089

M



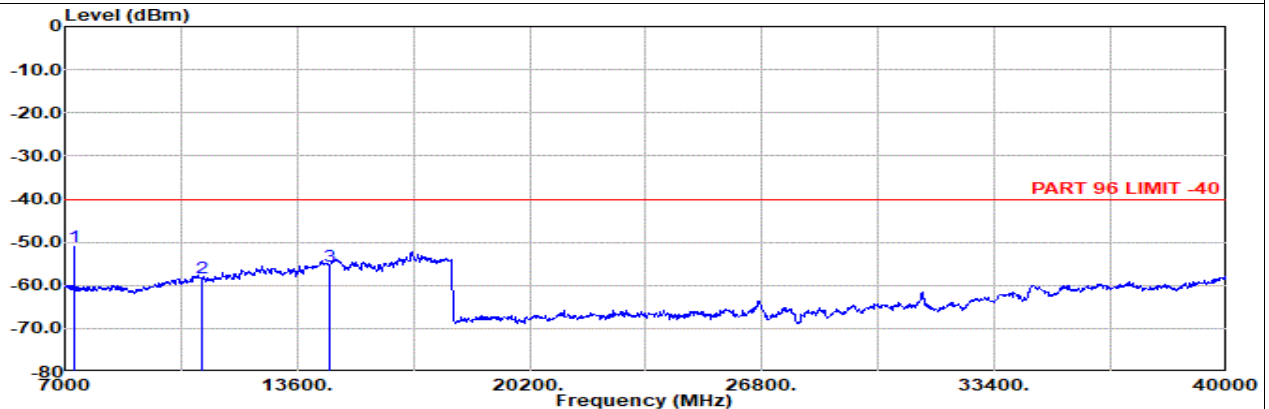
Site : 03CH07-HY

Condition: PART 96 LIMIT -40 1m SHF-EHF_9170251 Horizontal

Mode : LTE CA Band 48C 20M Ch55891 1RB99 QPSK+

: LTE CA Band 48C 20M Ch56089 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	7253.00	-55.74	RMS	36.09	-42.69	0.96	-95.23	45.13	-40.00	-15.74	Horizontal		
2	10872.00	-58.24	RMS	38.00	-40.33	0.49	-95.23	38.83	-40.00	-18.24	Horizontal		
3	14502.00	-55.24	RMS	39.70	-36.32	0.70	-95.23	35.91	-40.00	-15.24	Horizontal		



Site : 03CH07-HY

Condition: PART 96 LIMIT -40 1m SHF-EHF_9170251 Vertical

Mode : LTE CA Band 48C 20M Ch55891 1RB99 QPSK+

: LTE CA Band 48C 20M Ch56089 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	7253.00	-51.01	RMS	36.09	-42.69	0.96	-95.23	49.86	-40.00	-11.01	Vertical		
2	10872.00	-58.25	RMS	38.00	-40.33	0.49	-95.23	38.82	-40.00	-18.25	Vertical		
3	14502.00	-55.53	RMS	39.70	-36.32	0.70	-95.23	35.62	-40.00	-15.53	Vertical		

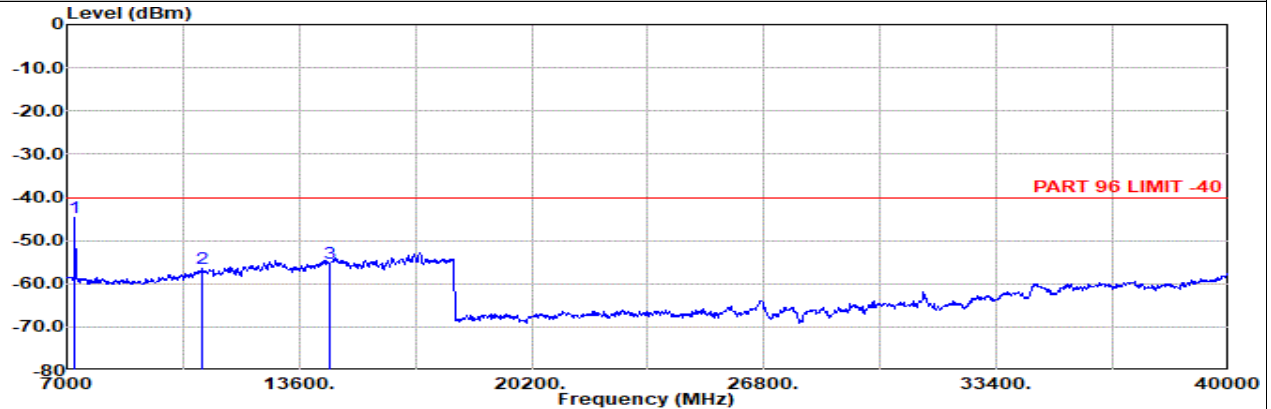


Ant. MIMO2+Main

Part 96 Mode 2

EN-DC B48+n5 20M + 20M Ch55990 1RB0 QPSK + Ch167300 1RB1 BPSK

M



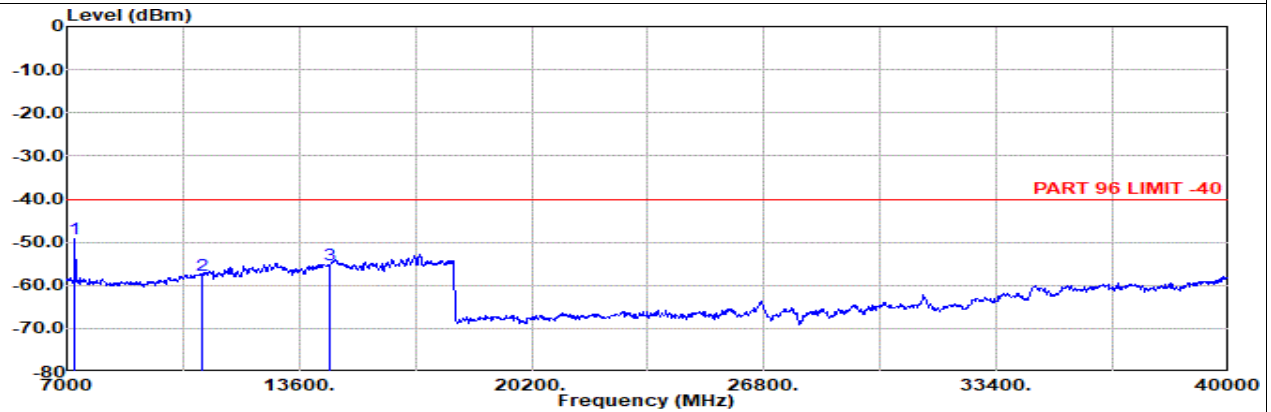
Site : 03CH07-HY

Condition: PART 96 LIMIT -40 1m SHF-EHF_9170251 Horizontal

Mode : LTE Band 48 20M CH55990 1RB0 QPSK+

: n5 20M CH167300 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit	Margin Pol	
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	7236.80	-44.79	RMS	36.10	-42.67	0.98	-95.23	56.03	-40.00	-4.79	Horizontal
2	10854.40	-56.49	RMS	38.00	-40.36	0.49	-95.23	40.61	-40.00	-16.49	Horizontal
3	14460.80	-55.16	RMS	39.62	-36.35	0.71	-95.23	36.09	-40.00	-15.16	Horizontal



Site : 03CH07-HY

Condition: PART 96 LIMIT -40 1m SHF-EHF_9170251 Vertical

Mode : LTE Band 48 20M CH55990 1RB0 QPSK+

: n5 20M CH167300 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit	Margin Pol	
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	7236.80	-49.30	RMS	36.10	-42.67	0.98	-95.23	51.52	-40.00	-9.30	Vertical
2	10854.40	-57.58	RMS	38.00	-40.36	0.49	-95.23	39.52	-40.00	-17.58	Vertical
3	14460.80	-55.26	RMS	39.62	-36.35	0.71	-95.23	35.99	-40.00	-15.26	Vertical

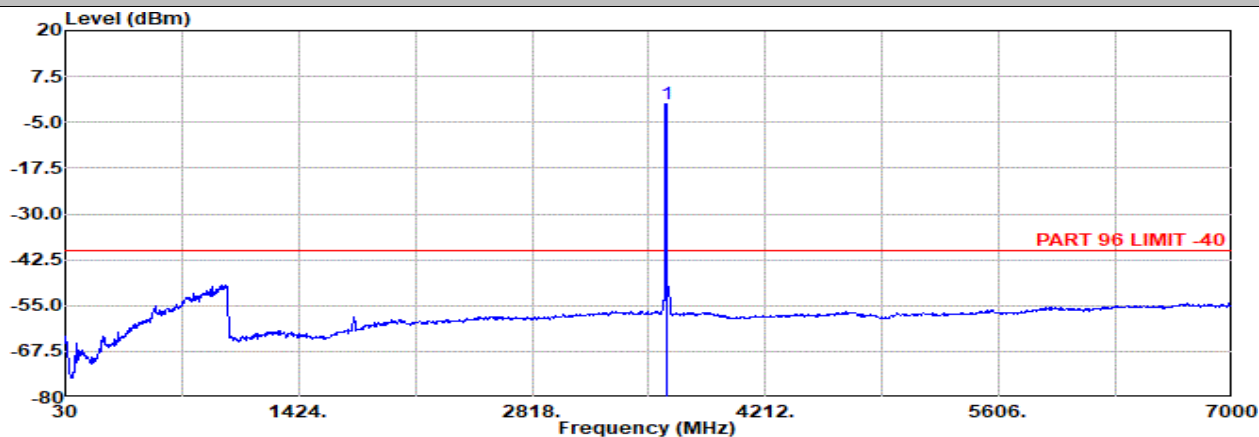


Ant. Main

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M



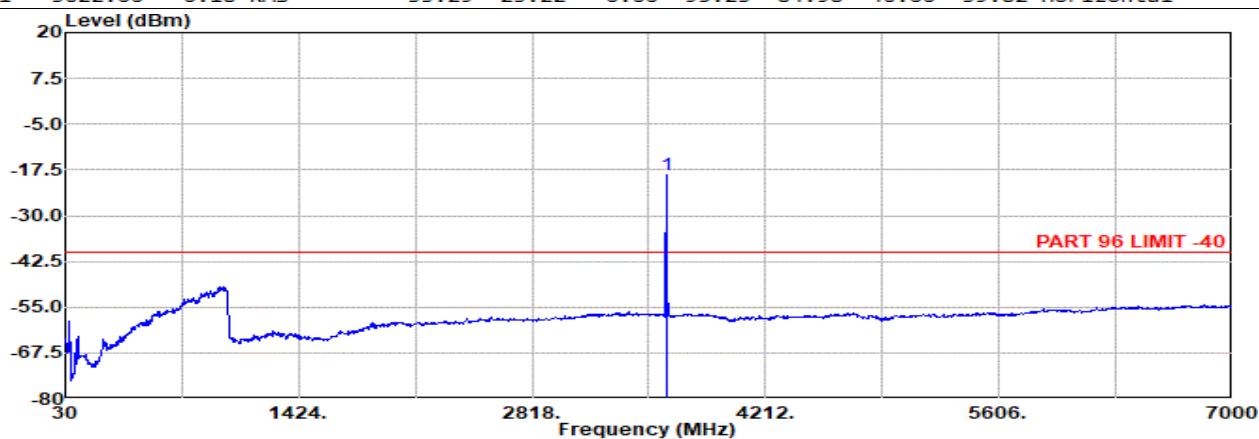
Site : 03CH07-HY

Condition: PART 96 LIMIT -40 3m HF_ANT_00075962 Horizontal

Mode : LTE Band 48 20M Ch55990 1RB0 QPSK

#1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1		g			
1	3622.00	-18.82	RMS	33.29	-23.22	0.00	-95.23	84.98	-40.00	39.82 Horizontal



Site : 03CH07-HY

Condition: PART 96 LIMIT -40 3m HF_ANT_00075962 Vertical

Mode : LTE Band 48 20M Ch55990 1RB0 QPSK

#1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1		g			
1	3622.00	-18.82	RMS	33.29	-23.22	0.00	-95.23	66.34	-40.00	21.18 Vertical