



FCC RADIO TEST REPORT

FCC ID : 2AQ68W696T4
Equipment : 5G WWAN Module
Brand Name : Foxconn
Model Name : T99W696
Applicant : Hon Lin Technology Co., Ltd.
11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114
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 Nov. 17, 2025 and testing was performed from Mar. 11, 2026 to Apr. 09, 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
FG5D1710D	01	Initial issue of report	Apr. 14, 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/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: Julia Chang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G WWAN Module
Brand Name	Foxconn
Model Name	T99W696
FCC ID	2AQ68W696T4
Sample 1	EUT with Host1
Sample 2	EUT with Host2
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.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: TP00176A, TP00176B) during test, and the host information was recorded in the following table.

Host Information	
Host 1	Host with Amphenol Taiwan Corporation Antenna
Host 2	Host with Speed Antenna

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	Amphenol Taiwan Corporation	Peak gain (dBi)	LTE Band 48 : 0.76
	Part number	DC33002BD10	Type	PIFA
	Manufacturer	AWAN	Peak gain (dBi)	LTE Band 48 : 0.76
	Part number	DC33002B810	Type	PIFA
MIMO2 Antenna	Manufacturer	Amphenol Taiwan Corporation	Peak gain (dBi)	LTE Band 48 : -2.13
	Part number	DC33002BD20	Type	PIFA
	Manufacturer	AWAN	Peak gain (dBi)	LTE Band 48 : -2.13
	Part number	DC33002B820	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. 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	03CH22-HY
Test Engineer	Yuki Chen	Ken Kuo 、York Huang
Temperature (°C)	22.3~22.9	20.2~23.5
Relative Humidity (%)	53.2~55.5	50.7~59.8

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

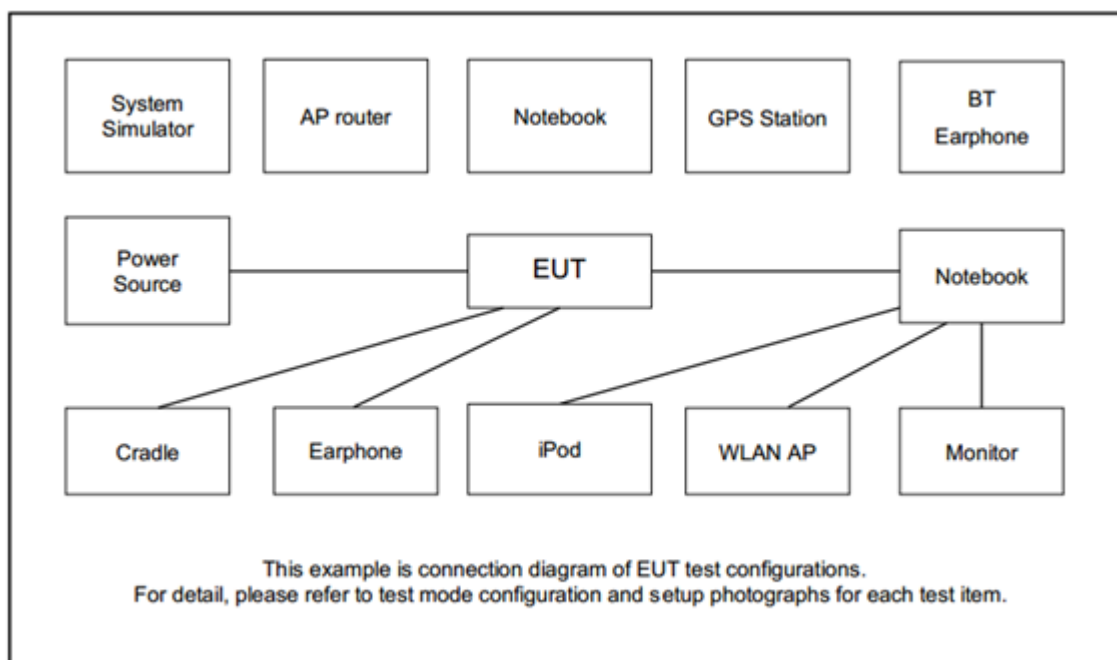
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

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.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8m
2.	Base Station	Anritsu	8821C	N/A	N/A	UnShielded, 1.8m
3.	Earphone	Apple	A1285	N/A	UnShielded, 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

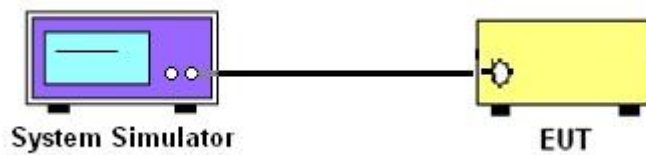
3 Conducted Test Items

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.

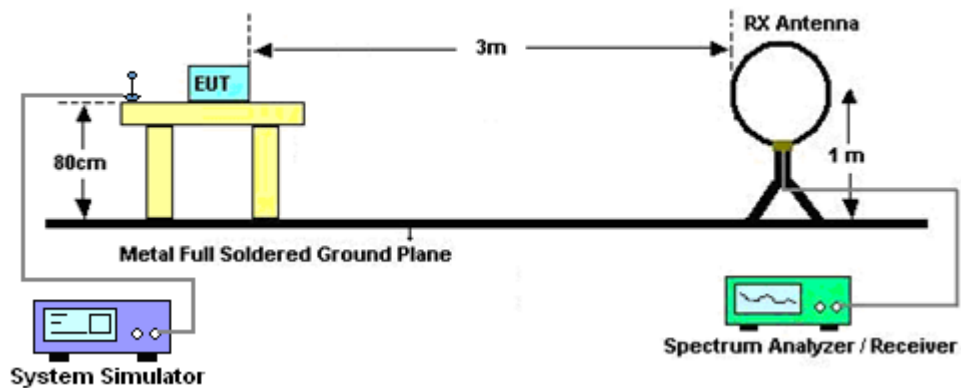
4 Radiated Test Items

4.1 Measuring Instruments

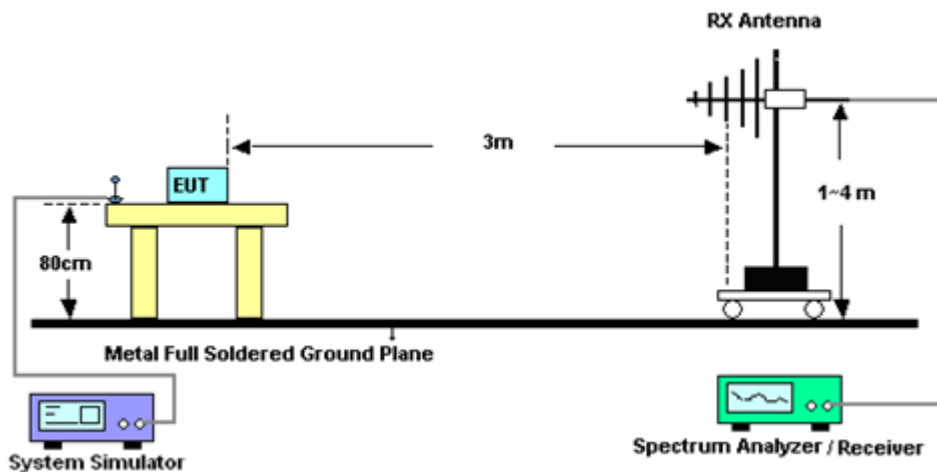
See list of measuring instruments of this test report.

4.2 Test Setup

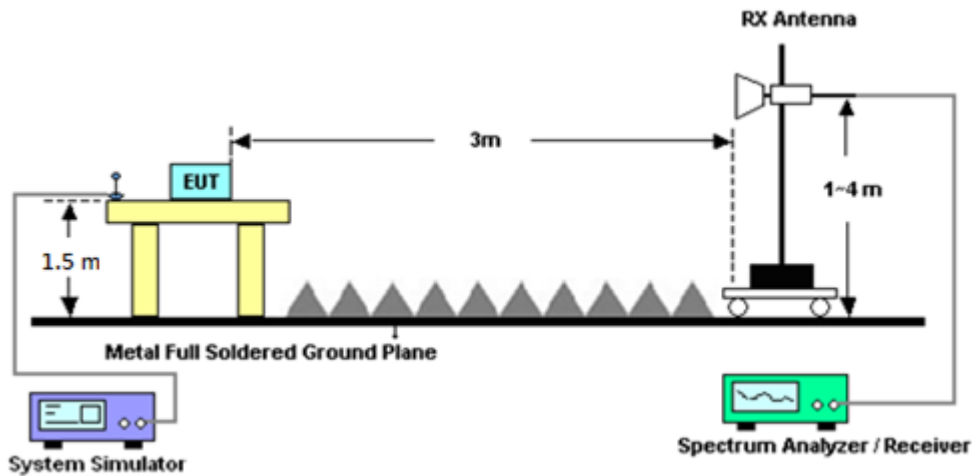
For radiated test below 30MHz



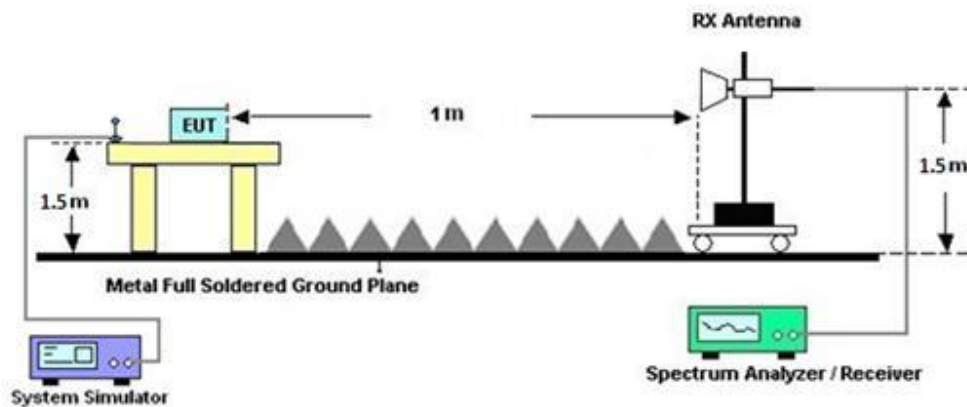
For radiated test from 30MHz to 1GHz



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
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 21, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Dec. 20, 2026	Radiation (03CH22-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Nov. 26, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Nov. 25, 2026	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 13, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Jul. 12, 2026	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	May. 20, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	May. 19, 2026	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1225	18GHz~40GHz	Jul. 02, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Jul. 01, 2026	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 26, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Sep. 25, 2026	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Dec. 02, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Dec. 01, 2026	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 22, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Sep. 21, 2026	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 15, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	Dec. 14, 2026	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 18, 2026 ~ Apr. 09, 2026	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 18, 2026 ~ Apr. 09, 2026	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 18, 2026 ~ Apr. 09, 2026	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	Mar. 18, 2026 ~ Apr. 09, 2026	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Mar. 18, 2026 ~ Apr. 09, 2026	Mar. 03, 2027	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER/EMCI	SUCOFLEX 102/EMCI01Y-KM-KM-500/EMCI01Y-KM-KM-9000	804611/2,240914,25043351,25043350	30MHz~40GHz	May. 19, 2025	Mar. 18, 2026 ~ Apr. 09, 2026	May. 18, 2026	Radiation (03CH22-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Mar. 11, 2026~ Mar. 17, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Mar. 11, 2026~ Mar. 17, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz~18GHz	Oct. 16, 2025	Mar. 11, 2026~ Mar. 17, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May 12, 2025	Mar. 11, 2026~ Mar. 17, 2026	May 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Mar. 11, 2026~ Mar. 17, 2026	Jun. 12, 2026	Conducted (TH05-HY)
Software	Sporton	NCC PLMN10 Test Tools	N/A	Conducted Test Item	N/A	Mar. 11, 2026~ Mar. 17, 2026	N/A	Conducted (TH05-HY)
Software	Anritsu	Auto Test System	N/A	Conducted Test Item	N/A	Mar. 11, 2026~ Mar. 17, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	-10 ~ 50°C / 20 ~ 95%RH	Nov. 04, 2025	Mar. 11, 2026~ Mar. 17, 2026	Nov. 11, 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% ($U = 2U_c(y)$)	6.30 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.40 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.00 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.70 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 = 0.76 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	19.85	20.38	20.55	21.43	0.1390
20	1	49		20.04	20.56	20.62		
20	1	99		19.91	20.45	20.67		
20	50	0		18.99	19.46	19.79		
20	50	24		19.05	19.45	19.68		
20	50	50		18.98	19.61	19.68		
20	100	0		19.03	19.44	19.72		
20	1	0	16-QAM	18.95	19.45	19.70	20.46	0.1112
20	1	49		19.02	19.43	19.57		
20	1	99		19.03	19.49	19.61		
20	50	0		17.90	18.33	18.62		
20	50	24		18.00	18.57	18.56		
20	50	50		17.98	18.54	18.67		
20	100	0		18.00	18.50	18.64		
20	1	0	64-QAM	17.98	18.47	18.55	19.42	0.0875
20	1	49		18.01	18.44	18.50		
20	1	99		18.04	18.35	18.66		
20	50	0		16.94	17.37	17.60		
20	50	24		16.99	17.54	17.57		
20	50	50		16.97	17.51	17.71		
20	100	0		17.00	17.58	17.61		
20	1	0	256-QAM	15.04	15.38	15.48	16.49	0.0446
20	1	49		14.93	15.60	15.61		
20	1	99		14.94	15.41	15.63		
20	50	0		15.01	15.39	15.66		
20	50	24		15.03	15.39	15.73		
20	50	50		15.05	15.37	15.71		
20	100	0		15.03	15.44	15.70		
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 = 0.76 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	19.87	20.28	20.68	21.44	0.1393
15	1	37		19.92	20.45	20.41		
15	1	74		19.92	20.45	20.41		
15	36	0		18.95	19.40	19.63		
15	36	20		18.96	19.51	19.58		
15	36	39		19.01	19.55	19.55		
15	75	0		18.90	19.53	19.46		
15	1	0	16-QAM	18.92	19.34	19.62	20.38	0.1091
15	1	37		18.99	19.45	19.52		
15	1	74		18.94	19.54	19.57		
15	36	0		17.84	18.28	18.48		
15	36	20		17.95	18.37	18.51		
15	36	39		17.90	18.39	18.55		
15	75	0		17.85	18.46	18.63		
15	1	0	64-QAM	17.95	18.42	18.47	19.38	0.0867
15	1	37		17.97	18.36	18.51		
15	1	74		17.96	18.34	18.62		
15	36	0		16.93	17.39	17.45		
15	36	20		16.95	17.50	17.51		
15	36	39		16.84	17.44	17.50		
15	75	0		17.00	17.31	17.57		
15	1	0	256-QAM	14.98	15.33	15.50	16.46	0.0443
15	1	37		14.97	15.52	15.70		
15	1	74		14.83	15.35	15.43		
15	36	0		14.96	15.44	15.44		
15	36	20		14.93	15.41	15.68		
15	36	39		15.10	15.26	15.65		
15	75	0		14.90	15.33	15.61		
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 = 0.76 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	19.90	20.17	20.52	21.33	0.1358
10	1	25		19.92	20.40	20.41		
10	1	49		19.97	20.27	20.57		
10	25	0		18.88	19.40	19.73		
10	25	12		18.97	19.45	19.51		
10	25	25		18.91	19.62	19.58		
10	50	0		18.94	19.43	19.53		
10	1	0	16-QAM	18.96	19.28	19.46	20.29	0.1069
10	1	25		18.95	19.42	19.53		
10	1	49		18.97	19.34	19.53		
10	25	0		17.86	18.30	18.49		
10	25	12		17.98	18.43	18.43		
10	25	25		17.90	18.41	18.57		
10	50	0		17.88	18.58	18.65		
10	1	0	64-QAM	17.88	18.28	18.37	19.38	0.0867
10	1	25		17.91	18.31	18.37		
10	1	49		17.88	18.31	18.62		
10	25	0		16.88	17.34	17.53		
10	25	12		16.91	17.41	17.44		
10	25	25		16.83	17.36	17.62		
10	50	0		16.92	17.41	17.44		
10	1	0	256-QAM	14.95	15.25	15.46	16.40	0.0437
10	1	25		14.98	15.45	15.64		
10	1	49		14.88	15.31	15.51		
10	25	0		14.95	15.33	15.58		
10	25	12		14.99	15.39	15.56		
10	25	25		14.97	15.35	15.61		
10	50	0		14.98	15.32	15.56		
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 = 0.76 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	19.98	20.24	20.56	21.32	0.1355
5	1	12		19.98	20.42	20.49		
5	1	24		19.86	20.36	20.51		
5	12	0		18.83	19.29	19.70		
5	12	7		18.84	19.43	19.52		
5	12	13		18.99	19.52	19.68		
5	25	0		18.89	19.37	19.57		
5	1	0	16-QAM	18.87	19.43	19.53	20.29	0.1069
5	1	12		18.94	19.31	19.39		
5	1	24		18.83	19.44	19.50		
5	12	0		17.92	18.30	18.42		
5	12	7		18.00	18.39	18.36		
5	12	13		17.87	18.51	18.70		
5	25	0		18.02	18.47	18.62		
5	1	0	64-QAM	17.95	18.43	18.41	19.41	0.0873
5	1	12		17.87	18.24	18.54		
5	1	24		17.96	18.29	18.65		
5	12	0		16.96	17.26	17.56		
5	12	7		16.87	17.39	17.49		
5	12	13		16.86	17.42	17.64		
5	25	0		16.98	17.37	17.49		
5	1	0	256-QAM	14.94	15.27	15.54	16.36	0.0433
5	1	12		14.96	15.44	15.53		
5	1	24		14.94	15.27	15.43		
5	12	0		15.00	15.30	15.50		
5	12	7		14.94	15.37	15.60		
5	12	13		15.02	15.35	15.60		
5	25	0		14.99	15.25	15.50		
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 = 0.76 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	20.39	20.52	20.66	21.42	0.1387
20+20	1	99	1	0	16-QAM	19.98	20.14	20.33	21.09	0.1285
20+15	1	99	1	0	QPSK	20.36	20.59	20.76	21.52	0.1419
20+15	1	99	1	0	16-QAM	20.00	20.24	20.41	21.17	0.1309
15+20	1	74	1	0	QPSK	20.39	20.56	20.71	21.47	0.1403
15+20	1	74	1	0	16-QAM	19.93	20.16	20.29	21.05	0.1274
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 = 0.76 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	20.32	20.54	20.79	21.55	0.1429
20+10	1	99	1	0	16-QAM	19.98	20.22	20.52	21.28	0.1343
10+20	1	49	1	0	QPSK	20.46	20.66	20.82	21.58	0.1439
10+20	1	49	1	0	16-QAM	20.07	20.30	20.49	21.25	0.1334
20+5	1	99	1	0	QPSK	20.53	20.77	20.98	21.74	0.1493
20+5	1	99	1	0	16-QAM	20.20	20.39	20.73	21.49	0.1409
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 = 0.76 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	20.47	20.68	20.91	21.67	0.1469
5+20	1	24	1	0	16-QAM	20.06	20.31	20.50	21.26	0.1337
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Mode	Part	Band	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	Part 96 LTE	LTE B48	M	14464	-48.08	RMS	42.26	-23.26	1.58	-95.23	26.57	-40.00	-8.08	V	Main
2	Part 96 LTE	EN-DC B48+n5	M	7242	-46.29	RMS	36.95	-21.70	1.32	-95.23	32.37	-40.00	-6.29	V	MIMO2+Main
3	Part 96 LTE	LTE CA 48C	M	14503	-48.10	RMS	42.40	-23.29	1.59	-95.23	26.43	-40.00	-8.10	V	Main

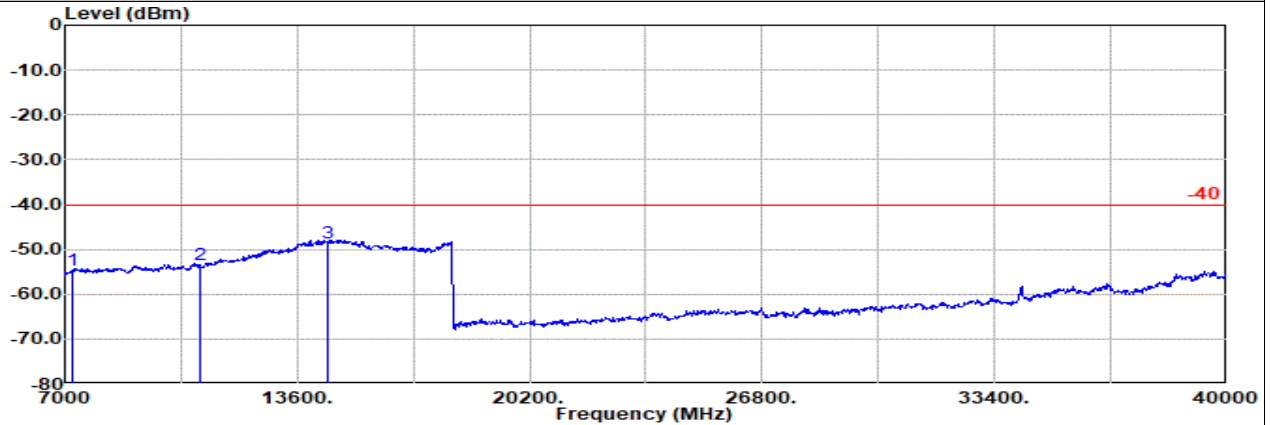


Main

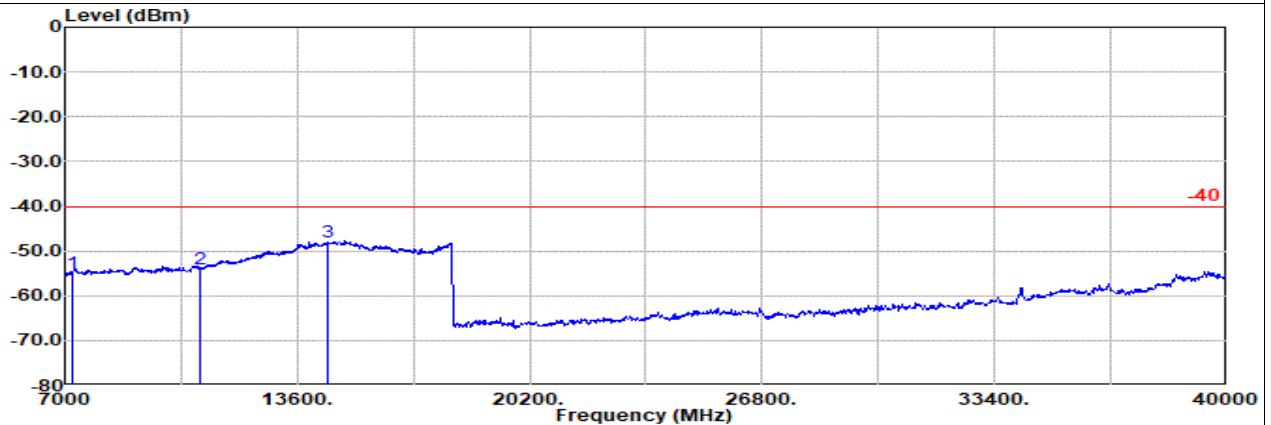
Part 96 LTE Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M



	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.18	-54.66	RMS	36.89	-21.69	1.32	-95.23	24.05	-40.00	-14.66 Horizontal
2	10848.27	-53.31	RMS	37.60	-22.20	1.32	-95.23	25.20	-40.00	-13.31 Horizontal
3	14464.36	-48.51	RMS	42.26	-23.26	1.58	-95.23	26.14	-40.00	-8.51 Horizontal



	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.18	-54.94	RMS	36.89	-21.69	1.32	-95.23	23.77	-40.00	-14.94 Vertical
2	10848.27	-54.05	RMS	37.60	-22.20	1.32	-95.23	24.46	-40.00	-14.05 Vertical
3	14464.36	-48.08	RMS	42.26	-23.26	1.58	-95.23	26.57	-40.00	-8.08 Vertical

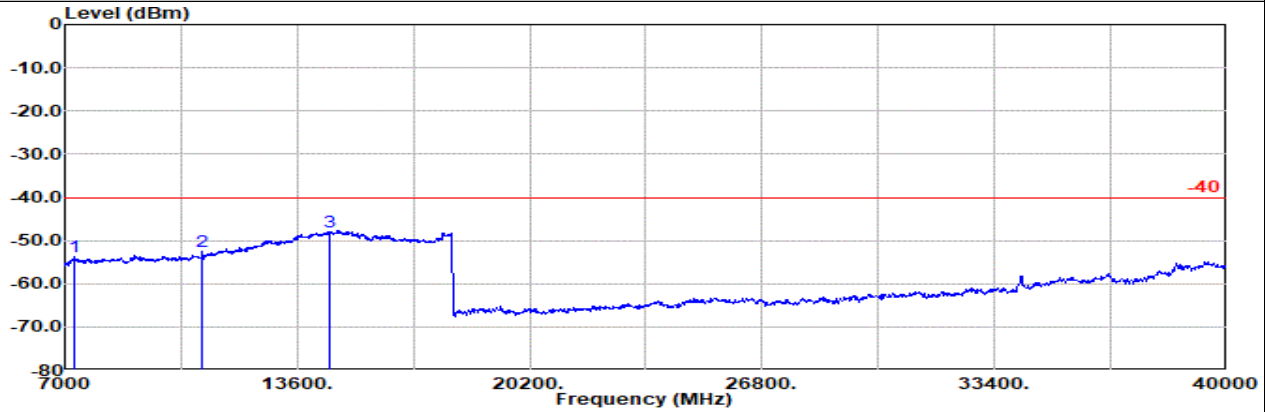


Main

Part 96 LTE Mode 3

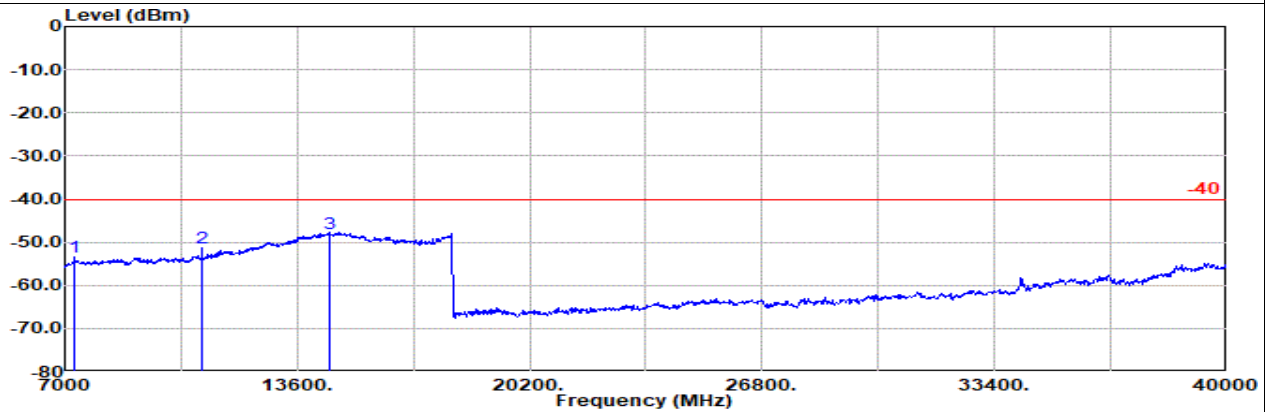
LTE CA 48C 20M + 20M Ch55891 1RB99 QPSK + Ch56089 1RB0 QPSK

M



Site : 03CH22-HY
Condition: -40 1m SHF_1224_250702 Horizontal
: LTE Band 48 20M Ch55891 1RB99 QPSK
: LTE Band 48 20M Ch56089 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	7251.98	-53.72	RMS	37.01	-21.70	1.31	-95.23	24.89	-40.00	-13.72	Horizontal	
2	10877.97	-52.55	RMS	37.66	-22.21	1.32	-95.23	25.91	-40.00	-12.55	Horizontal	
3	14503.96	-48.10	RMS	42.40	-23.29	1.59	-95.23	26.43	-40.00	-8.10	Horizontal	



Site : 03CH22-HY
Condition: -40 1m SHF_1224_250702 Vertical
: LTE Band 48 20M Ch55891 1RB99 QPSK
: LTE Band 48 20M Ch56089 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	7251.98	-53.45	RMS	37.01	-21.70	1.31	-95.23	25.16	-40.00	-13.45	Vertical	
2	10877.97	-51.45	RMS	37.66	-22.21	1.32	-95.23	27.01	-40.00	-11.45	Vertical	
3	14503.96	-48.10	RMS	42.40	-23.29	1.59	-95.23	26.43	-40.00	-8.10	Vertical	

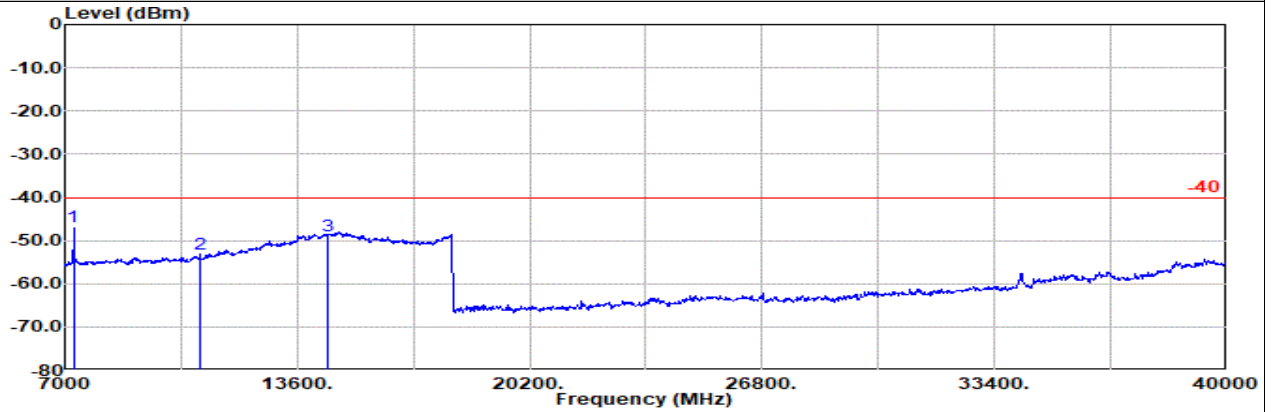


MIMO2+MAIN

Part 96 LTE Mode 2

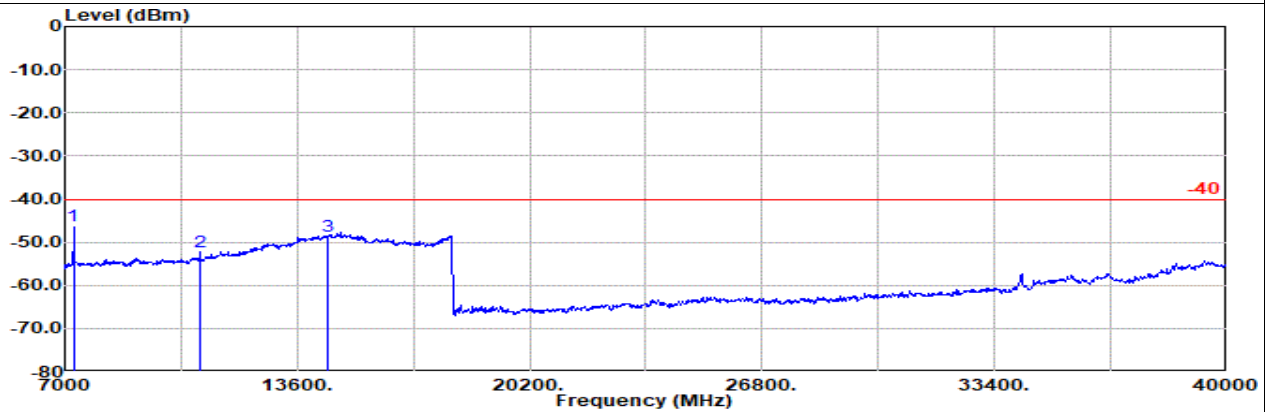
EN-DC B48+n5 Ch55990 + Ch167300

M



Site : 03CH22-HY
Condition: -40 1m SHF_1224_250702 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK
: SA n5 20M Ch167300 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm			dB/m	dB		dBuV	dBm	dB	
1	7242.00	-46.73	RMS		36.95	-21.70	1.32 -95.23	31.93	-40.00	-6.73	Horizontal
2	10850.00	-53.16	RMS		37.60	-22.20	1.32 -95.23	25.35	-40.00	-13.16	Horizontal
3	14469.00	-48.85	RMS		42.28	-23.27	1.58 -95.23	25.79	-40.00	-8.85	Horizontal



Site : 03CH22-HY
Condition: -40 1m SHF_1224_250702 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK
: SA n5 20M Ch167300 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm			dB/m	dB		dBuV	dBm	dB	
1	7242.00	-46.29	RMS		36.95	-21.70	1.32 -95.23	32.37	-40.00	-6.29	Vertical
2	10850.00	-52.28	RMS		37.60	-22.20	1.32 -95.23	26.23	-40.00	-12.28	Vertical
3	14469.00	-48.66	RMS		42.28	-23.27	1.58 -95.23	25.98	-40.00	-8.66	Vertical

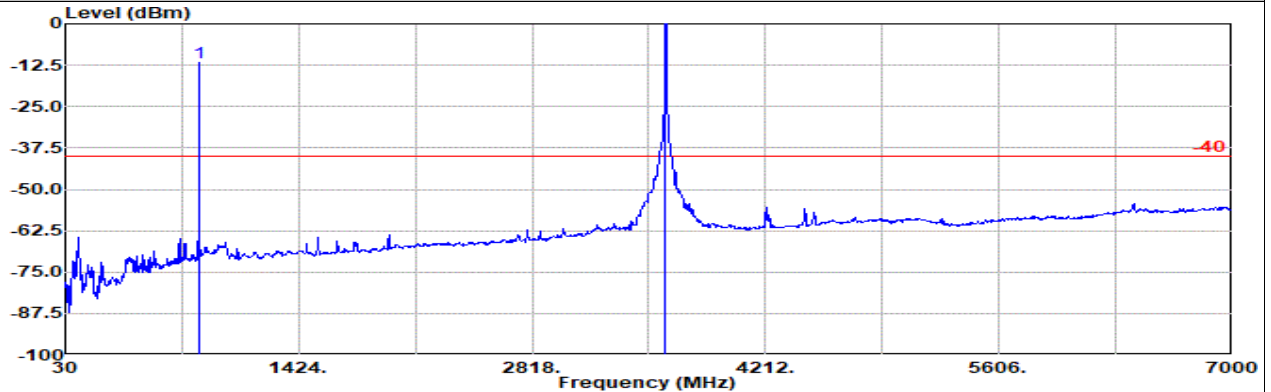


MIMO2+Main

Part 96 LTE Mode 2

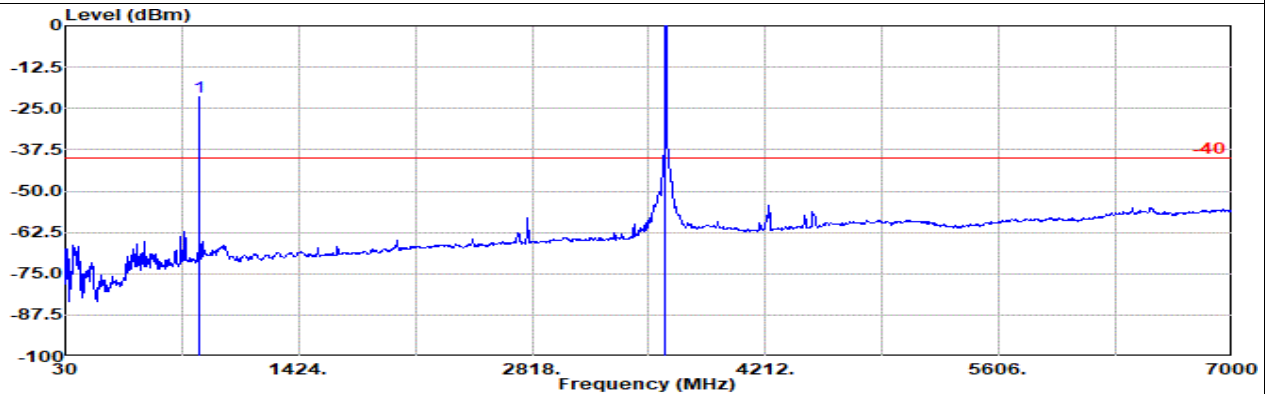
EN-DC B48+n5 Ch55990 + Ch167300

M



Site : 03CH22-HY
Condition: -40 3m Bilog_63304_251126 Horizontal
: LTE B48 20M Ch55990 1RB0 QPSK
: SA n5 20M Ch167300 1RB1 BPSK
: #1 is fundamental signal which can be ignored.
: #2 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	827.77	-11.52	RMS	28.02	4.77	0.20	-95.23	50.72	-40.00	28.48	Horizontal
2	3616.00	5.28	RMS	29.26	10.00	0.92	-95.23	60.33	-40.00	45.28	Horizontal



Site : 03CH22-HY
Condition: -40 3m Bilog_63304_251126 Vertical
: LTE B48 20M Ch55990 1RB0 QPSK
: SA n5 20M Ch167300 1RB1 BPSK
: #1 is fundamental signal which can be ignored.
: #2 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	827.77	-21.48	RMS	28.02	4.77	0.20	-95.23	40.76	-40.00	18.52	Vertical
2	3616.00	5.01	RMS	29.26	10.00	0.92	-95.23	60.06	-40.00	45.01	Vertical