



FCC RADIO TEST REPORT

FCC ID : 2BHFNHESTIAA2
Equipment : NTN-LoRaWAN Dongle
Brand Name : APAL
Model Name : Hestia A2
Applicant : Creative5 Inc.
7F, No. 300, Sec. 1, Neihu Rd., Neihu Dist.
Taipei City, 11493, Taiwan
Manufacturer : Creative5 Inc.
7F, No. 300, Sec. 1, Neihu Rd., Neihu Dist.
Taipei City, 11493, Taiwan
Standard : FCC 47 CFR Part 2, and 25

The product was received on Jan. 09, 2025 and testing was performed from Apr. 08, 2025 to Apr. 18, 2025. 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

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C)



Table of Contents

History of This Test Report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applied Standards	6
2 Test Configuration of Equipment Under Test	7
2.1 Test Mode.....	7
2.2 Connection Diagram of Test System	7
2.3 Support Unit used in test configuration and system	7
2.4 Frequency List of Low/Middle/High Channels	8
3 Test Result	9
3.1 RF Output Power.....	9
3.2 Field Strength of Spurious Radiation	10
4 List of Measuring Equipment.....	13
5 Measurement Uncertainty	14
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
FG480227-01A	01	Initial issue of report	May 07, 2025



Summary of Test Result

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046(a) §25.204(a)	RF Output Power	40dBW(max)	PASS	-
-	§2.1055 §25.202(d)	Frequency Stability	within 0.001 percent of the reference frequency.	-	See Note
-	§2.1049	Occupied Bandwidth	-	-	See Note
-	§2.1051 §25.202(f)	Conducted Emissions Mask	§25.202(f)	-	See Note
-	§2.1051 §25.202(f)	Conducted Spurious Emission	§25.202(f)	-	See Note
3.2	§2.1053 §25.202(f)	Field Strength of Spurious Radiation	§25.202(f)	PASS	-
-	§25.216(c)(e)(h)(i)	Additional Limits on Emissions from Mobile Earth Station	§25.216(c)(e)(h)(i)	-	See Note

Note:

- For host device, Radiated Spurious Emission and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: RMM-T1)

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: Keven Cheng

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs NTN, LoRa and GNSS.	
Antenna Type NTN: Monopole Antenna	
Antenna Gain	Band 23: 5.482 dBi Band 24: 2.998 dBi Band 255: 2.998 dBi
Integrated NTN module	Equipment Name: NTN miniPCIE module Brand Name: COMPAL Model Name: RMM-T1

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

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Location

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	03CH16-HY
Test Engineer	Kevin Xiao	Jerry Lan, Gary Guo and Steven Wu
Temperature (°C)	23.5~24.7	19.3~22.3
Relative Humidity (%)	50.1~53.2	62.4~68.3

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

FCC Designation No.: TW3786

1.4 Applied Standards

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

- ♦ FCC 47 CFR Part 2, 25
- ♦ ANSI C63.26-2015
- ♦ 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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

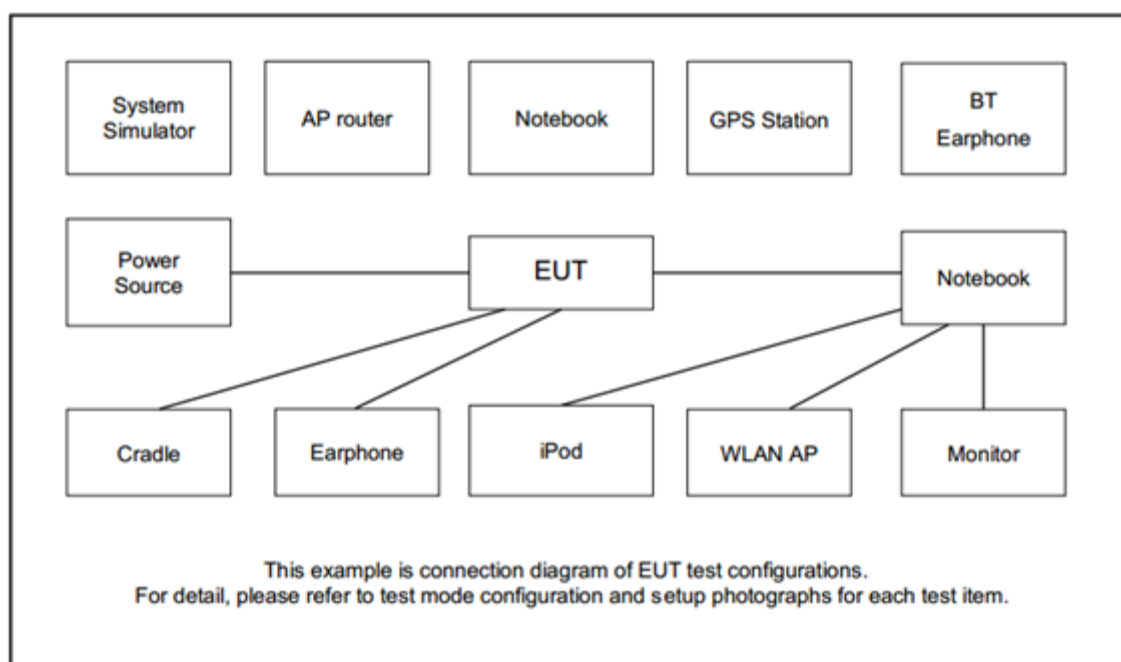
2.1 Test Mode

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 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.

Support band and evaluated information	
Supported band	B23, B24, B255
Evaluated and Tested band	B23, B24, B255

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	L570	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

Band 23 Channel and Frequency List			
Channel/Frequency(MHz)	Lowest	Middle	Highest
Channel	25501	25600	25699
Frequency	2000.1	2010	2019.9

Band 24 Channel and Frequency List			
Channel/Frequency(MHz)	Lowest	Middle	Highest
Channel	25700	25870	26039
Frequency	1626.6	1643.5	1660.4

Band 255 Channel and Frequency List			
Channel/Frequency(MHz)	Lowest	Middle	Highest
Channel	261505	261674	261843
Frequency	1626.6	1643.5	1660.4

3 Test Result

3.1 RF Output Power

3.1.1 Description of the Conducted Output Power Measurement

FCC Part 25.204 (a)

In bands shared coequally with terrestrial radio communication services, the equivalent isotropically radiated power transmitted in any direction towards the horizon by an earth station, other than an ESV, operating in frequency bands between 1 and 15 GHz, shall not exceed the following limits except as provided for in paragraph (c) of this section:

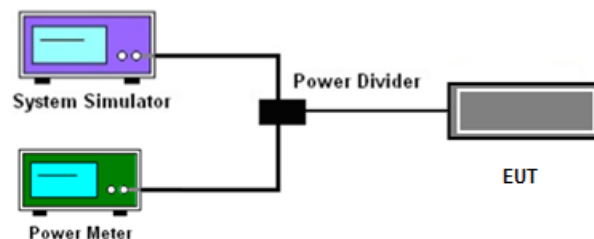
- + 40 dBW in any 4 kHz band for $\theta \leq 0^\circ$
- + 40 + 3 θ dBW in any 4 kHz band for $0^\circ < \theta \leq 5^\circ$

Where θ is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

3.1.2 Test Procedures

The output power is measured by using power meter when the transmitter is operating at the manufacturer's rated power and modulated with signals. The maximum antenna gain of EUT for the test range will then be added to the measured conducted power to calculate the EIRP. Since the power meter can only measure the overall power, the measured result will be worse than the one measured in 4 kHz RBW. The test result will be compared to the most restricted limit: +40 dBW.

3.1.3 Test Setup



3.1.4 Test Results

Please refer to Appendix A.

3.2 Field Strength of Spurious Radiation

3.2.1 Description of Radiated Spurious Emission

FCC Part 25.202(f) Emissions Limitations The mean power of the emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: an amount equal to 43 decibels plus 10 times Logarithm (to the base 10) of the transmitter power in watts

3.2.2 Measuring Instruments

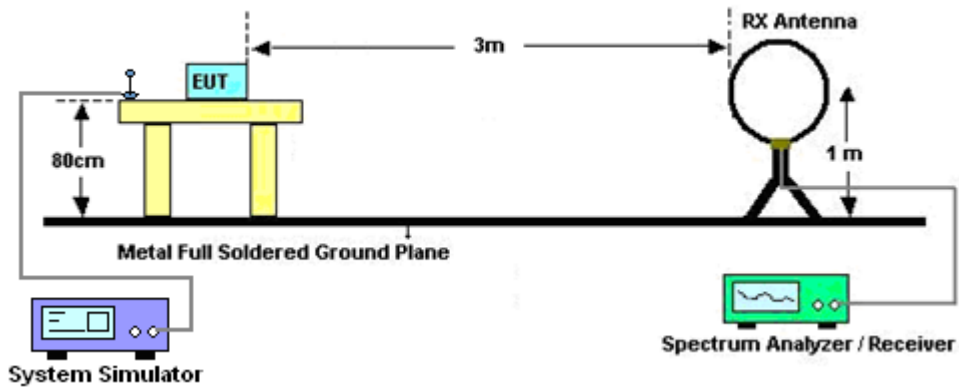
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

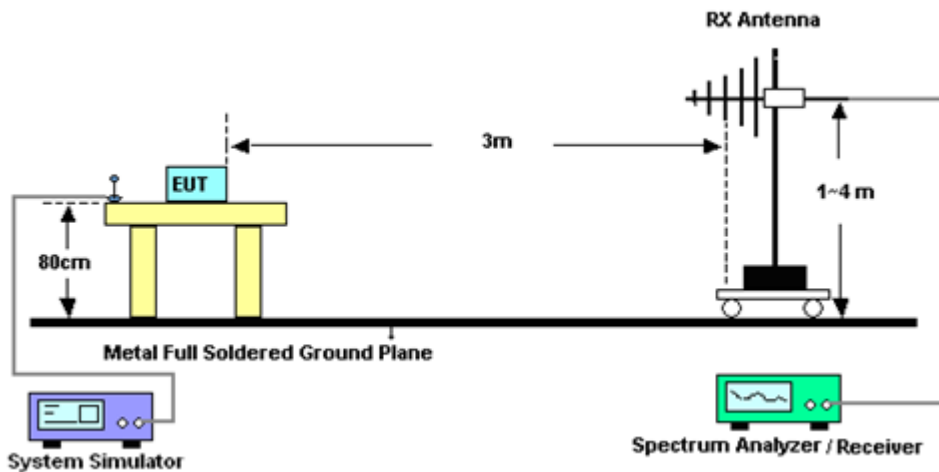
1. The testing follows ANSI C63.26-2015.
2. The EUT was placed on a rotatable table with:
 - 0.8 meter above ground for emissions under 1 GHz
 - 1.5 meter above ground for emissions above 1 GHz
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. 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.
6. Peak detector is used instead of RMS detector since the measured result of Peak detector is worse than the RMS one. If the test result of Peak detector exceed the limit, RMS detector will then be used.
7. Make the measurement with the spectrum analyzer's RBW = 100kHz, VBW = 300kHz, taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.2.4 Test Setup

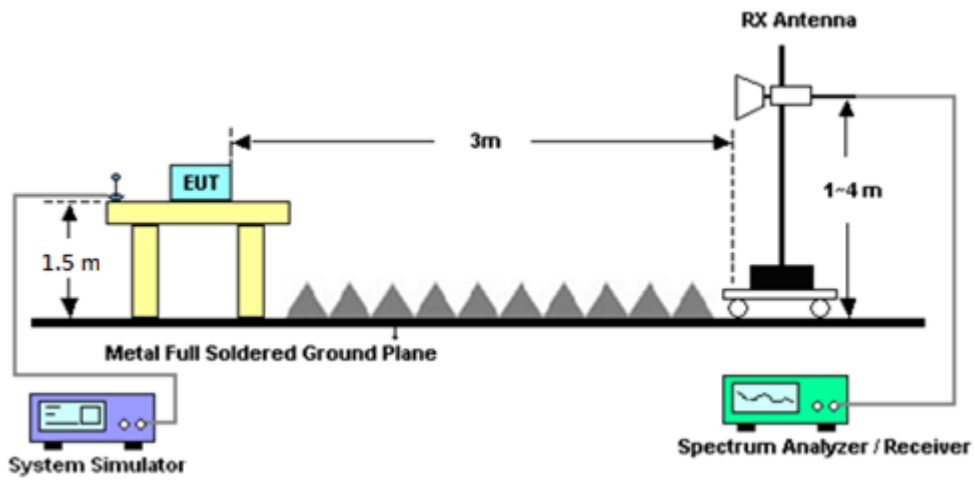
For radiated emissions from 10KHz to 30MHz.



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 Test Results

Please refer to Appendix B.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Apr. 08, 2025~ Apr. 15, 2025	Aug. 28, 2025	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz~40GHz	Oct. 25, 2024	Apr. 08, 2025~ Apr. 15, 2025	Oct. 24, 2025	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 22, 2024	Apr. 08, 2025~ Apr. 15, 2025	Nov. 21, 2025	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 05, 2024	Apr. 08, 2025~ Apr. 15, 2025	Oct. 04, 2025	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1G~18GHz	Dec. 06, 2024	Apr. 08, 2025~ Apr. 15, 2025	Dec. 05, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Apr. 08, 2025~ Apr. 15, 2025	Jul. 01, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 05, 2024	Apr. 08, 2025~ Apr. 15, 2025	Dec. 04, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 24, 2024	Apr. 08, 2025~ Apr. 15, 2025	Dec. 23, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Apr. 08, 2025~ Apr. 15, 2025	May 26, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530 -8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 14, 2025	Apr. 08, 2025~ Apr. 15, 2025	Jan. 13, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Apr. 08, 2025~ Apr. 15, 2025	Jun. 27, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Apr. 08, 2025~ Apr. 15, 2025	Apr. 21, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 07, 2024	Apr. 08, 2025~ Apr. 15, 2025	Aug. 06, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Dec. 31, 2024	Apr. 08, 2025~ Apr. 15, 2025	Dec. 30, 2025	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Apr. 08, 2025~ Apr. 15, 2025	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Apr. 08, 2025~ Apr. 15, 2025	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 08, 2025~ Apr. 15, 2025	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 08, 2025~ Apr. 15, 2025	N/A	Radiation (03CH16-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278356	LTE FDD/TDD DLCA/ULCA	Aug. 19, 2024	Apr. 18, 2025	Aug. 18, 2025	Conducted (TH05-HY)
Coupler	MVE	MVE4816	A400014	0.5~18GHz	Mar. 07, 2025	Apr. 18, 2025	Mar. 06, 2026	Conducted (TH05-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
---	--------

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
---	--------



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

Band 23 SCS 3.75kHz						
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)	
		BPSK	QPSK		BPSK	QPSK
2000.1	1SC0	23.22	23.20	5.482	28.702	28.682
	1SC47	23.17	23.17	5.482	28.652	28.652
2010	1SC0	23.41	23.43	5.482	28.892	28.912
	1SC47	23.41	23.43	5.482	28.892	28.912
2019.9	1SC0	23.33	23.34	5.482	28.812	28.822
	1SC47	23.30	23.27	5.482	28.782	28.752

Band 23 SCS 15kHz						
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)	
		BPSK	QPSK		BPSK	QPSK
2000.1	1SC0	23.18	23.16	5.482	28.662	28.642
	1SC11	23.18	23.19	5.482	28.662	28.672
	3SC0	-	22.71	5.482	-	28.192
	3SC9	-	22.58	5.482	-	28.062
	6SC0	-	22.04	5.482	-	27.522
	6SC6	-	22.11	5.482	-	27.592
	12SC0	-	21.05	5.482	-	26.532
2010	1SC0	23.41	23.37	5.482	28.892	28.852
	1SC11	23.41	23.39	5.482	28.892	28.872
	3SC0	-	22.93	5.482	-	28.412
	3SC9	-	22.78	5.482	-	28.262
	6SC0	-	22.35	5.482	-	27.832
	6SC6	-	22.33	5.482	-	27.812
	12SC0	-	21.40	5.482	-	26.882
2019.9	1SC0	23.32	23.36	5.482	28.802	28.842
	1SC11	23.31	23.30	5.482	28.792	28.782
	3SC0	-	23.01	5.482	-	28.492
	3SC9	-	22.80	5.482	-	28.282
	6SC0	-	22.21	5.482	-	27.692
	6SC6	-	22.27	5.482	-	27.752
	12SC0	-	21.28	5.482	-	26.762



Band 24 SCS 3.75kHz						
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)	
		BPSK	QPSK		BPSK	QPSK
1626.6	1SC0	22.71	22.74	2.998	25.708	25.738
	1SC47	22.75	22.80	2.998	25.748	25.798
1643.5	1SC0	22.40	22.37	2.998	25.398	25.368
	1SC47	22.33	22.35	2.998	25.328	25.348
1660.4	1SC0	23.10	23.11	2.998	26.098	26.108
	1SC47	23.12	23.11	2.998	26.118	26.108

Band 24 SCS 15kHz						
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)	
		BPSK	QPSK		BPSK	QPSK
1626.6	1SC0	22.78	22.78	2.998	25.778	25.778
	1SC11	22.80	22.80	2.998	25.798	25.798
	3SC0	-	22.65	2.998	-	25.648
	3SC9	-	22.50	2.998	-	25.498
	6SC0	-	21.87	2.998	-	24.868
	6SC6	-	21.96	2.998	-	24.958
	12SC0	-	20.79	2.998	-	23.788
1643.5	1SC0	22.36	22.33	2.998	25.358	25.328
	1SC11	22.31	22.32	2.998	25.308	25.318
	3SC0	-	22.40	2.998	-	25.398
	3SC9	-	22.17	2.998	-	25.168
	6SC0	-	21.50	2.998	-	24.498
	6SC6	-	21.54	2.998	-	24.538
	12SC0	-	20.31	2.998	-	23.308
1660.4	1SC0	23.13	23.12	2.998	26.128	26.118
	1SC11	23.11	23.10	2.998	26.108	26.098
	3SC0	-	23.00	2.998	-	25.998
	3SC9	-	22.83	2.998	-	25.828
	6SC0	-	22.20	2.998	-	25.198
	6SC6	-	22.29	2.998	-	25.288
	12SC0	-	21.09	2.998	-	24.088



Band 255 SCS 3.75kHz						
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)	
		BPSK	QPSK		BPSK	QPSK
1626.6	1SC0	22.79	22.80	2.998	25.788	25.798
	1SC47	22.81	22.82	2.998	25.808	25.818
1643.5	1SC0	22.48	22.49	2.998	25.478	25.488
	1SC47	22.46	22.48	2.998	25.458	25.478
1660.4	1SC0	23.17	23.18	2.998	26.168	26.178
	1SC47	23.19	23.21	2.998	26.188	26.208

Band 255 SCS 15kHz						
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)	
		BPSK	QPSK		BPSK	QPSK
1626.6	1SC0	22.79	22.78	2.998	25.788	25.778
	1SC11	22.82	22.80	2.998	25.818	25.798
	3SC0	-	22.63	2.998	-	25.628
	3SC9	-	22.49	2.998	-	25.488
	6SC0	-	21.93	2.998	-	24.928
	6SC6	-	21.78	2.998	-	24.778
	12SC0	-	20.79	2.998	-	23.788
1643.5	1SC0	22.50	22.48	2.998	25.498	25.478
	1SC11	22.48	22.44	2.998	25.478	25.438
	3SC0	-	22.27	2.998	-	25.268
	3SC9	-	22.09	2.998	-	25.088
	6SC0	-	21.52	2.998	-	24.518
	6SC6	-	21.47	2.998	-	24.468
	12SC0	-	20.50	2.998	-	23.498
1660.4	1SC0	23.17	23.14	2.998	26.168	26.138
	1SC11	23.18	23.20	2.998	26.178	26.198
	3SC0	-	22.81	2.998	-	25.808
	3SC9	-	22.85	2.998	-	25.848
	6SC0	-	22.19	2.998	-	25.188
	6SC6	-	22.16	2.998	-	25.158
	12SC0	-	21.12	2.998	-	24.118



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)	FiNTNr (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 25	NTN B23	L	8010	-41.84	RMS	37.20	-17.28	0.42	-95.23	33.05	-13.00	-28.84	H	1
2	Part 25	NTN B255	M	3300	-42.97	RMS	28.30	-21.14	1.06	-95.23	44.04	-13.00	-29.97	V	1

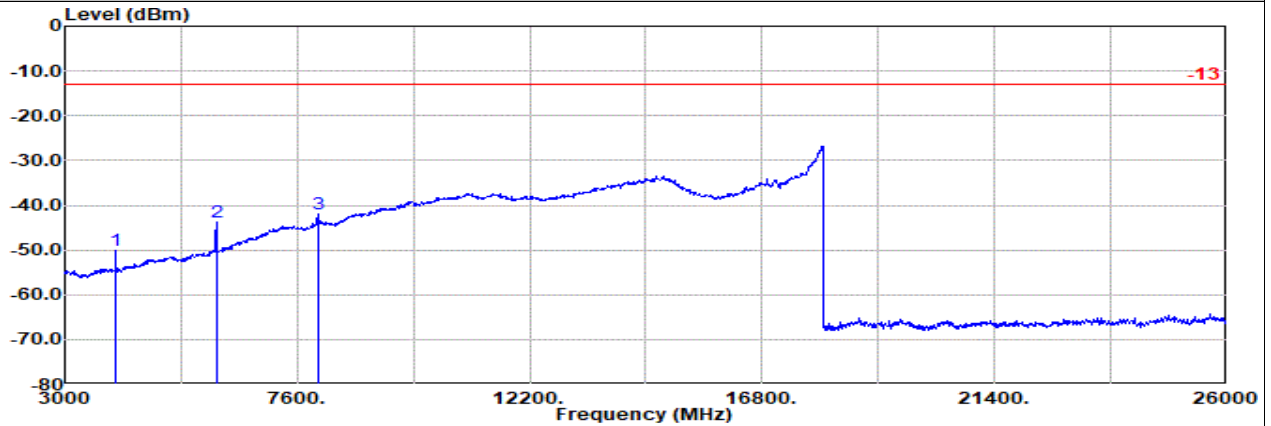


Ant. 1

Part 25 Mode 1

NTN B23 20M Ch25501 1RB0 QPSK

L

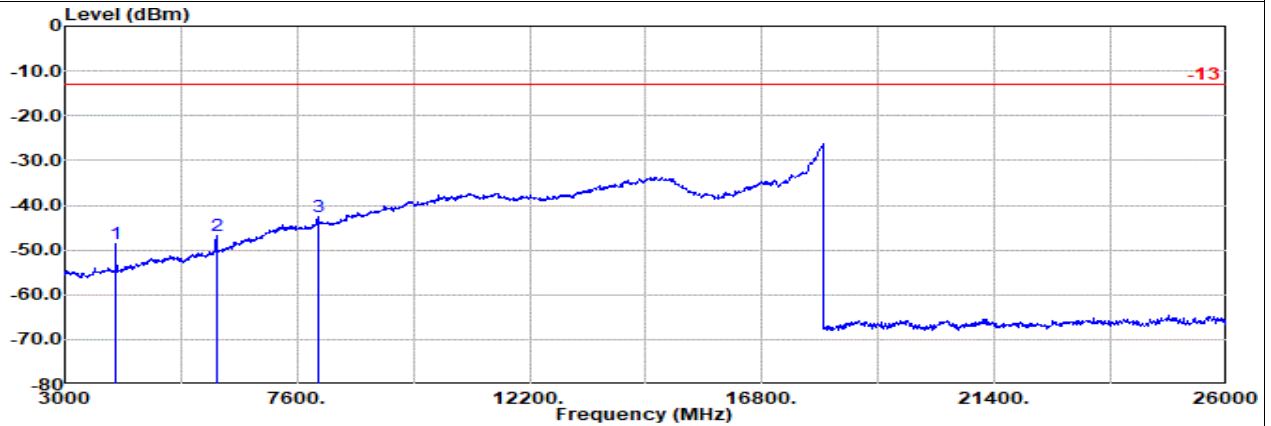


Site : 03CH16-HY

Condition: -13 1m BBHA9170_1225_240624 Horizontal

: LTE Band 23 200 kHz Ch25501 3.75 kHz 1SC0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
				dB/m	dB						
MHz	dBm					dB	dB	dBuV	dBm	dB	
1	4005.00	-49.98 RMS	29.71	-19.94	0.59	-95.23	34.89	-13.00	-36.98	Horizontal	
2	6000.00	-43.77 RMS	32.70	-17.97	0.31	-95.23	36.42	-13.00	-30.77	Horizontal	
3	8010.00	-41.84 RMS	37.20	-17.28	0.42	-95.23	33.05	-13.00	-28.84	Horizontal	



Site : 03CH16-HY

Condition: -13 1m BBHA9170_1225_240624 Vertical

: LTE Band 23 200 kHz Ch25501 3.75 kHz 1SC0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
				dB/m	dB						
MHz	dBm					dB	dB	dBuV	dBm	dB	
1	4005.00	-48.49 RMS	29.71	-19.94	0.59	-95.23	36.38	-13.00	-35.49	Vertical	
2	6000.00	-46.68 RMS	32.70	-17.97	0.31	-95.23	33.51	-13.00	-33.68	Vertical	
3	8010.00	-42.59 RMS	37.20	-17.28	0.42	-95.23	32.30	-13.00	-29.59	Vertical	

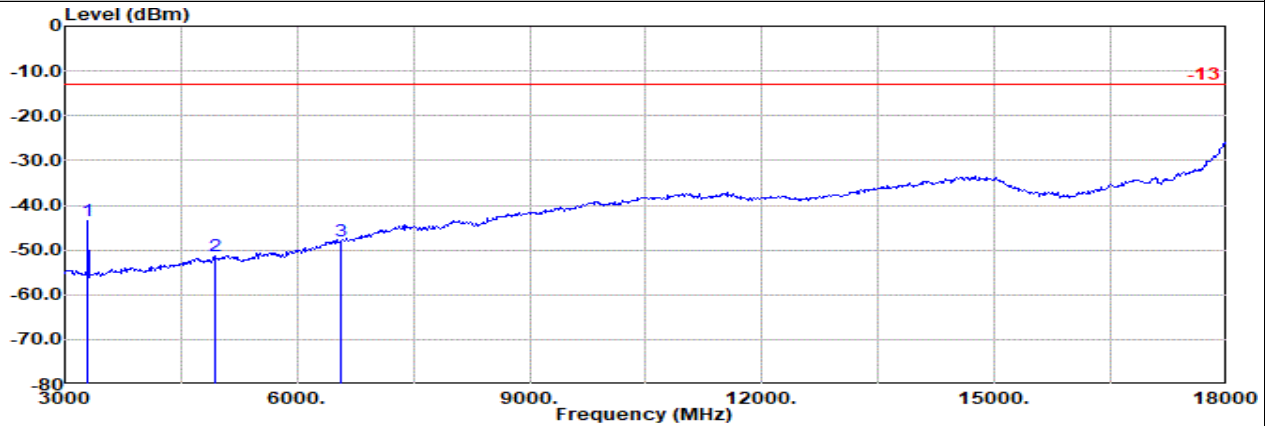


Ant. 1

Part 25 Mode 2

NTN B255 20M Ch261674 1RB0 QPSK

M

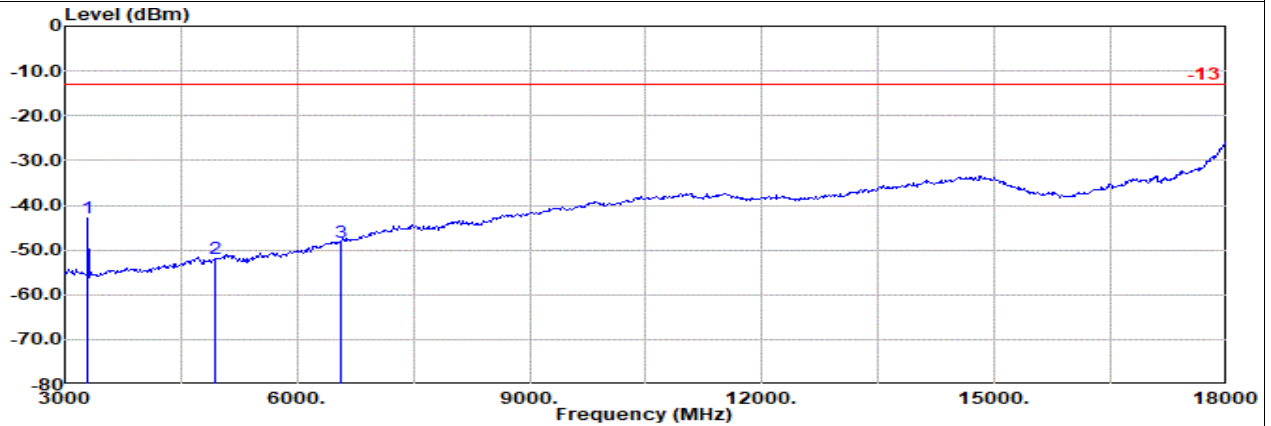


Site : 03CH16-HY

Condition: -13 3m 9120D-1328_241206 Horizontal

: LTE Band 255 200 kHz Ch261674 3.75 kHz 1SC0 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3300.00	-43.58	RMS	28.30	-21.14	1.06	-95.23	43.43	-13.00	-30.58	Horizontal
2	4935.00	-51.20	RMS	31.37	-18.68	0.52	-95.23	30.82	-13.00	-38.20	Horizontal
3	6570.00	-47.97	RMS	34.54	-17.73	0.47	-95.23	29.98	-13.00	-34.97	Horizontal



Site : 03CH16-HY

Condition: -13 3m 9120D-1328_241206 Vertical

: LTE Band 255 200 kHz Ch261674 3.75 kHz 1SC0 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3300.00	-42.97	RMS	28.30	-21.14	1.06	-95.23	44.04	-13.00	-29.97	Vertical
2	4935.00	-51.97	RMS	31.37	-18.68	0.52	-95.23	30.05	-13.00	-38.97	Vertical
3	6570.00	-48.22	RMS	34.54	-17.73	0.47	-95.23	29.73	-13.00	-35.22	Vertical

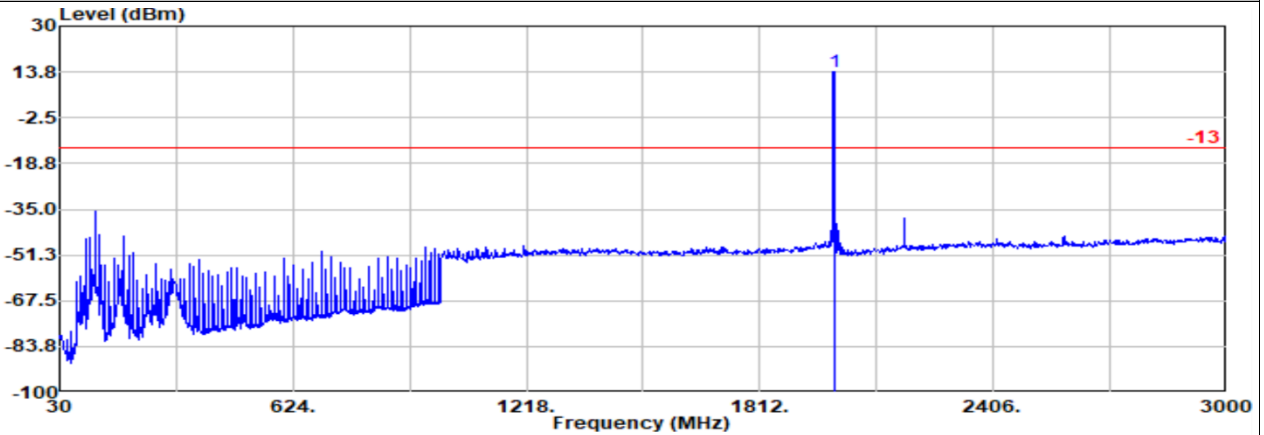


Ant. 1

Part 25 Mode 1

NTN B23 20M Ch25501 1RB0 QPSK

L



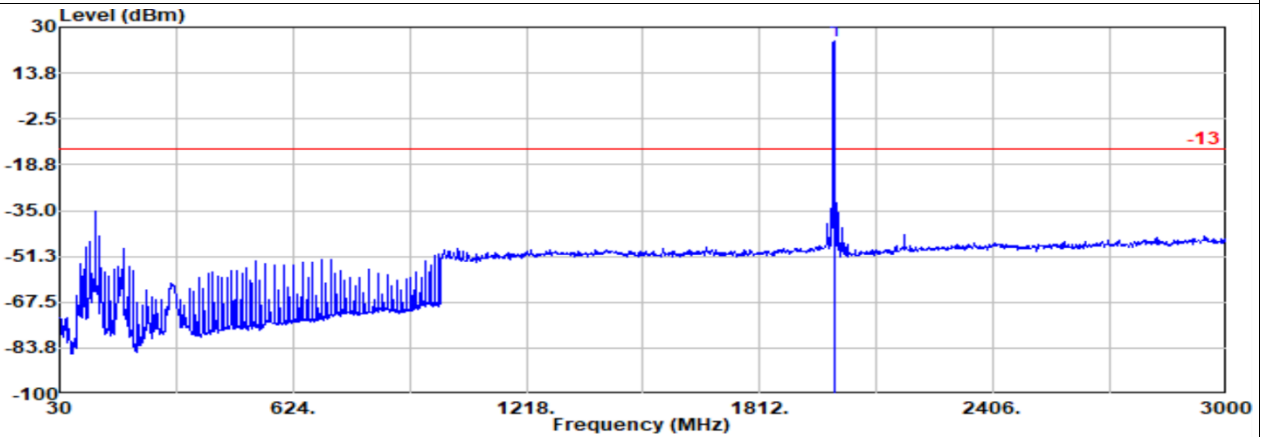
Site : 03CH16-HY

Condition: -13 3m 9120D-1328_241206 Horizontal

: LTE Band 23 20M Ch25500 1SC2 QPSK

: #1 is fundamental signal which can be ignored.

	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	2000.00	13.69	RMS	26.10	7.04	0.00	-95.23	75.78	-13.00	26.69	Horizontal



Site : 03CH16-HY

Condition: -13 3m 9120D-1328_241206 Vertical

: LTE Band 23 20M Ch25500 1SC2 QPSK

: #1 is fundamental signal which can be ignored.

	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	2002.00	24.95	RMS	26.08	7.04	0.00	-95.23	87.06	-13.00	37.95	Vertical

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