



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 Part 15 Subpart C §15.247

The product was received on Jan. 19, 2025 and testing was performed from Feb. 13, 2025 to Apr. 15, 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.)



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History of this test report

Report No.	Version	Description	Issue Date
FR480227-01A	01	Initial issue of report	May 07, 2025
FR480227-01A	02	Revising the Ref Std. Clause in Summary of Test Result This report is an updated version, replacing the report issued on May 07, 2025	May 14, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.247(a)(1)	Number of Channels	Pass	See Note
-	15.247(a)(1)	Hopping Channel Separation	Pass	See Note
-	15.247(a)(1)	Dwell Time of Each Channel	Pass	See Note
-	15.247(a)(1)	20dB Bandwidth	Pass	See Note
-	2.1049	99% Occupied Bandwidth	Pass	See Note
3.1	15.247(b)(2)	Output Power	Pass	-
-	15.247(d)	Conducted Band Edges	Pass	See Note
-	15.247(d)	Conducted Spurious Emission	Pass	See Note
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
-	15.207	AC Conducted Emission	Pass	See Note
3.3	15.203 15.247(b)	Antenna Requirement	Pass	-

Note:

- For host device, Radiated Spurious Emission is verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (FCC ID:2ADWC-AI50H, Model: AI50H).

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/manufacturer 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: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs NTN, LoRa, and GNSS.	
Antenna Type LoRa: Dipole Antenna	
Antenna Gain	LoRa: 0.7 dBi
Integrated LoRa Module	Equipment Name: LoRa Module
	Brand Name: Acsip
	Model Name: AI50H

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. 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

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

FCC designation No.: TW3786



1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency and Channel

Channel Bandwidth: 125KHz							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	902.3	16	905.5	32	908.7	48	911.9
1	902.5	17	905.7	33	908.9	49	912.1
2	902.7	18	905.9	34	909.1	50	912.3
3	902.9	19	906.1	35	909.3	51	912.5
4	903.1	20	906.3	36	909.5	52	912.7
5	903.3	21	906.5	37	909.7	53	912.9
6	903.5	22	906.7	38	909.9	54	913.1
7	903.7	23	906.7	39	910.1	55	913.3
8	903.9	24	907.1	40	910.3	56	913.5
9	904.1	25	907.3	41	910.5	57	913.7
10	904.3	26	907.5	42	910.7	58	913.9
11	904.5	27	907.7	43	910.9	59	914.1
12	904.7	28	907.9	44	911.1	60	914.3
13	904.9	29	908.1	45	911.3	61	914.5
14	905.1	30	908.3	46	911.5	62	914.7
15	905.3	31	908.5	47	911.7	63	914.9

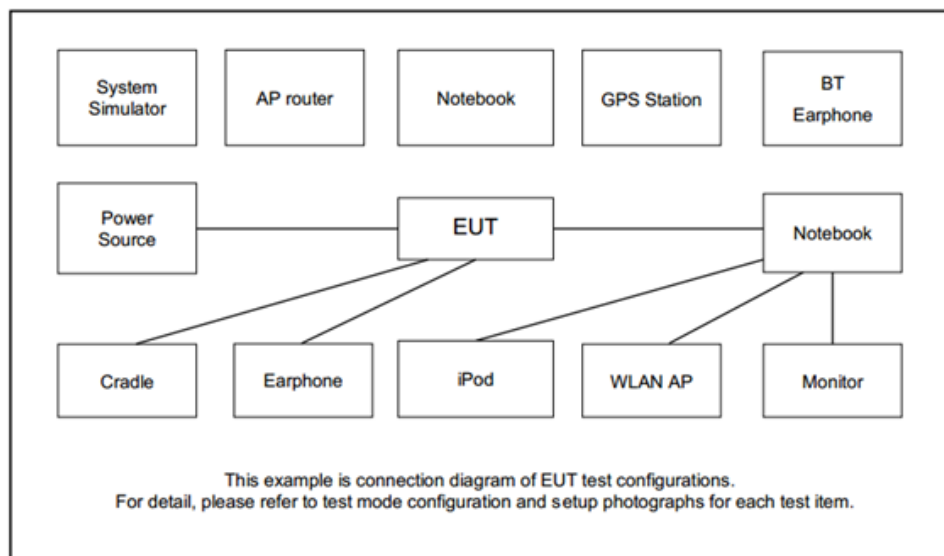
Channel Bandwidth: 500KHz			
Channel	Freq. (MHz)	Channel	Freq. (MHz)
64	903	68	909.4
65	904.3	69	911
66	906.2	70	912.6
67	907.8	71	914.2

2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). 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 C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

Summary table of Test Cases		
Test Item	Feature	LoRa
Conducted Test Cases	LoRa 125 KHz FHSS	Mode 1: CH31 Tx_908.50 MHz
	LoRa 500 KHz DTS	Mode 2: CH71 Tx_914.20 MHz
Remark: The detailed radiated test modes are shown in Appendix B.		

2.3 Connection Diagram of Test System



2.4 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

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

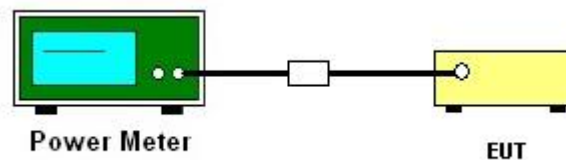
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of Average Output Power

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics / spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

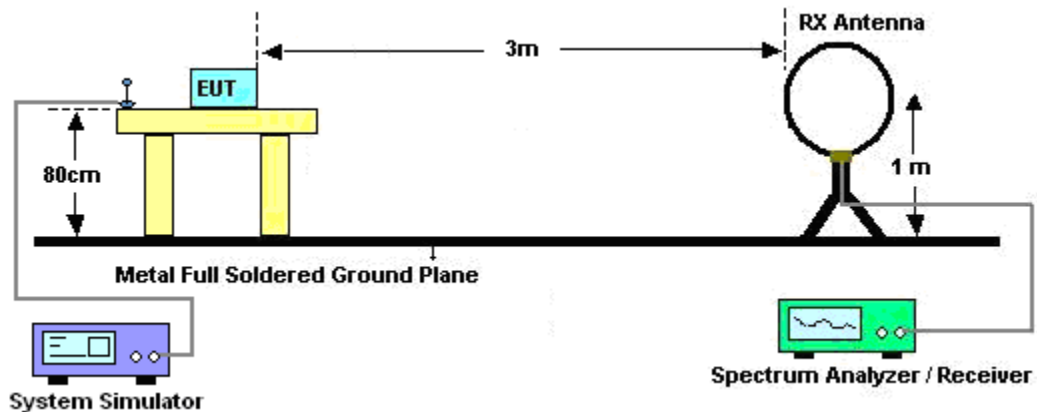
3.2.3 Test Procedures

1. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT is arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz, RBW = 1 MHz for $f > 1$ GHz ; VBW = RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
On time = $N1 \cdot L1 + N2 \cdot L2 + \dots + Nn-1 \cdot Ln-1 + Nn \cdot Ln$
Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 \cdot \log$ (Duty cycle)
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
8. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

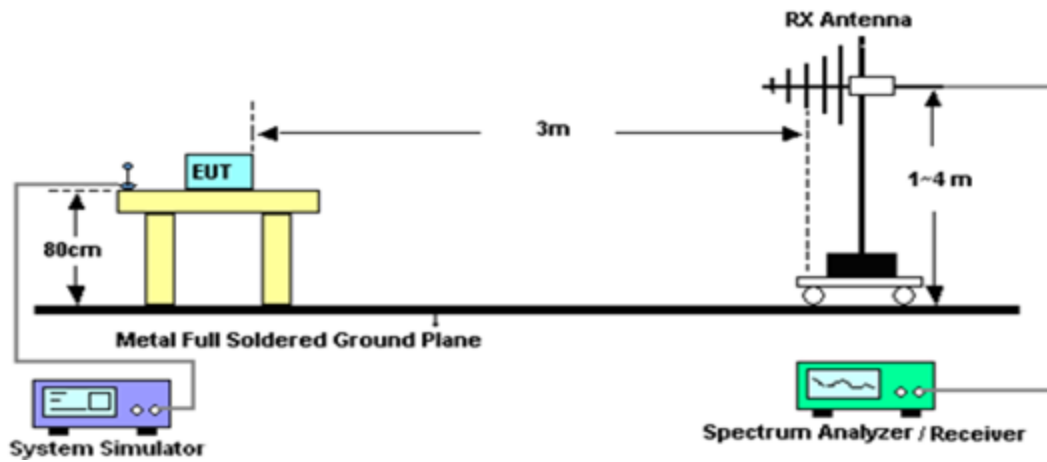
9. Use the following spectrum analyzer settings:
- (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \geq 1$ GHz for peak measurement.
- For average measurement:
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

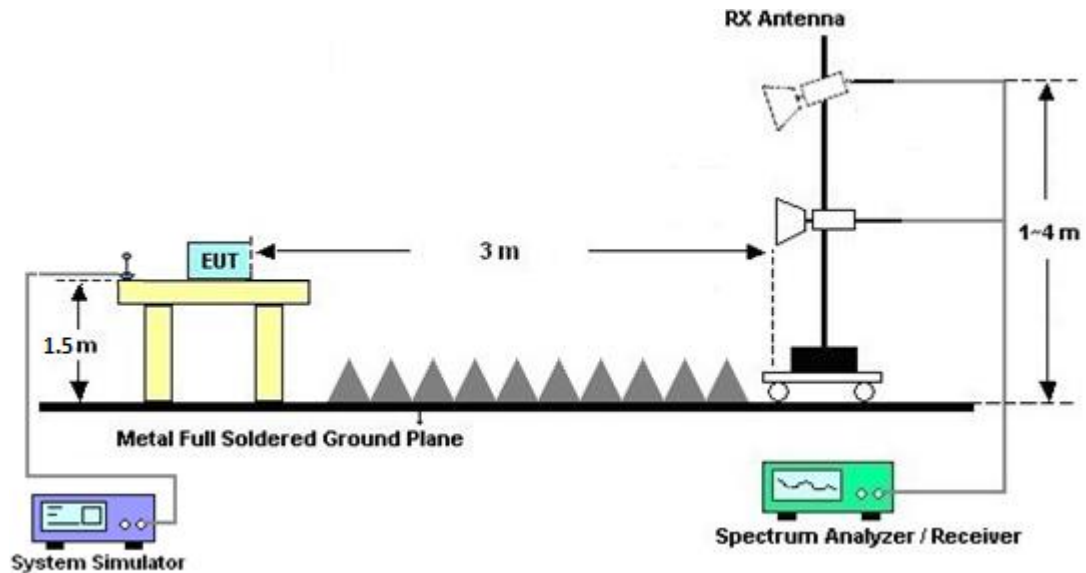
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz





3.2.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is 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 comes out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.



3.3 Antenna Requirements

3.3.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



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	WLK4-1000-153 0-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 14, 2025	Apr. 08, 2025~ Apr. 15, 2025	Jan. 13, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-3 000-18000-60ST	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-A5-30 0-5757,80 5935/4,80 2434/4	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, 804012/2	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)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Feb. 13, 2025~ Mar. 27, 2025	Oct. 30, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030 SNO31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Feb. 13, 2025~ Mar. 27, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Feb. 13, 2025~ Mar. 27, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Feb. 13, 2025~ Mar. 27, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Feb. 13, 2025~ Mar. 27, 2025	N/A	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
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2025/2/13~2025/3/27	Relative Humidity:	51~54	%

<u>TEST RESULTS DATA</u> <u>Average Power Table</u>						
Mod.	Data Rate	NTX	Spreading Factor	Freq. (MHz)	Average Conducted Power (dBm)	Setting
Lora	125khz	1	SF10	908.5	20.00	21.00

<u>TEST RESULTS DATA</u> <u>Average Power Table</u>						
Mod.	Data Rate	NTX	Spreading Factor	Freq. (MHz)	Average Conducted Power (dBm)	Setting
Lora	500khz	1	SF8	914.2	20.80	22.00



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Lan, Gary Guo and Steven Wu	Temperature :	19.3~22.3°C
		Relative Humidity :	62.4~68.3%

Note symbol

-L	Low channel location
-R	High channel location

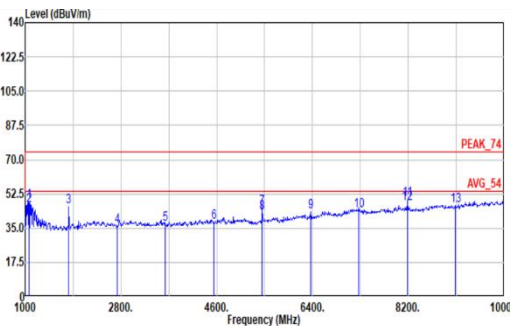
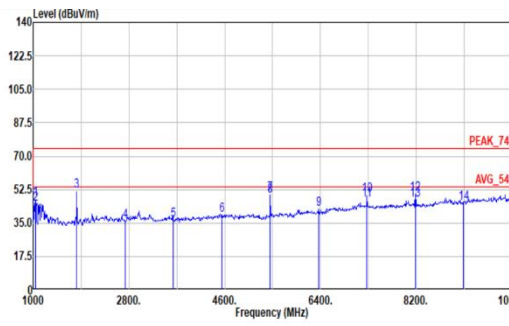
B1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	902-928	1	Lora BW 125KHz SF 10TX	908.5MHz	908.5MHz	-	-	-
Mode 2	902-928	1	Lora BW 500KHz SF 8 TX	914.2MHz	914.2MHz	-	-	-

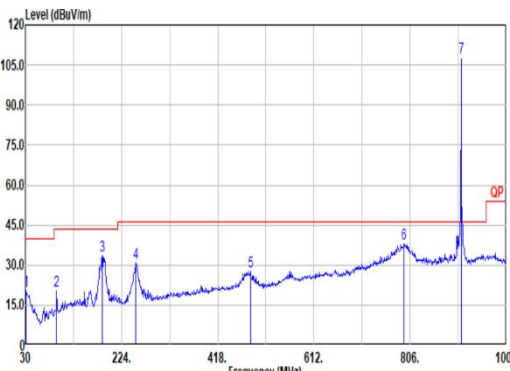
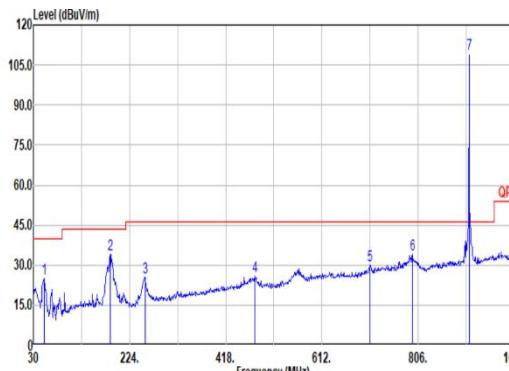
**B2. Summary of each worse mode**

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Lora BW 125KHz SF 10TX	908.5MHz	793.39	37.89	46.00	-8.11	V	Peak.	Pass	-	LF
	Lora BW 125KHz SF 10TX	908.5MHz	5451.00	49.20	54.00	-4.80	V	Avg	Pass	-	Harmonic
2	Lora BW 500KHz SF 8 TX	914.2MHz	800.18	38.05	46.00	-7.95	H	Peak.	Pass	-	LF
	Lora BW 500KHz SF 8 TX	914.2MHz	7313.60	50.82	54.00	-3.18	V	Avg.	Pass	-	Harmonic

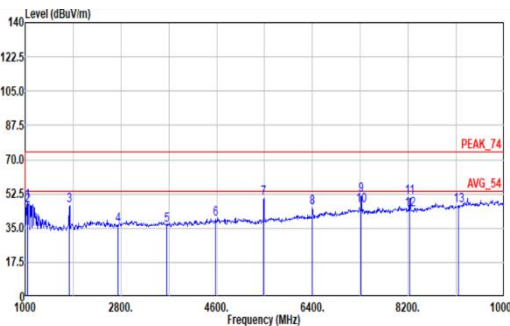
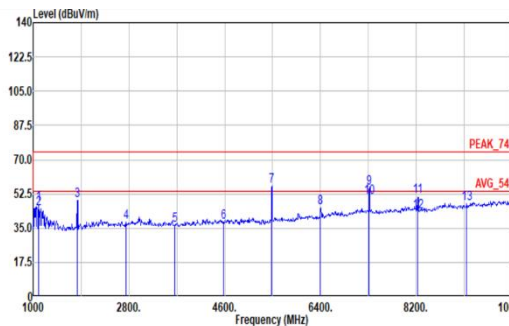


Mode	1																																																																																																																																																																																																																																																																																																																																																																																																																								
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Avg	<p>Site : 03CH16-HY Condition: PEAK_74 3m 91280-1328_241286 HORIZONTAL</p> <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>1072.00</td><td>48.83</td><td>74.00</td><td>-25.17</td><td>86.95</td><td>24.02</td><td>5.09</td><td>68.98</td><td>1.75</td><td>300</td><td>53</td><td>PEAK</td></tr><tr><td>2</td><td>1072.00</td><td>46.65</td><td>54.00</td><td>-7.35</td><td>84.77</td><td>24.02</td><td>5.09</td><td>68.98</td><td>1.75</td><td>300</td><td>53</td><td>AVERAGE</td></tr><tr><td>3</td><td>1817.00</td><td>46.12</td><td>74.00</td><td>-27.88</td><td>81.70</td><td>25.47</td><td>6.71</td><td>68.18</td><td>0.42</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>4</td><td>2725.50</td><td>36.02</td><td>74.00</td><td>-37.98</td><td>66.84</td><td>27.90</td><td>8.20</td><td>67.35</td><td>0.43</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>5</td><td>3634.00</td><td>36.76</td><td>74.00</td><td>-37.24</td><td>64.60</td><td>29.27</td><td>9.43</td><td>66.84</td><td>0.30</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>6</td><td>4542.50</td><td>38.13</td><td>74.00</td><td>-35.87</td><td>62.86</td><td>30.87</td><td>10.65</td><td>66.62</td><td>0.37</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>7</td><td>5451.00</td><td>45.54</td><td>74.00</td><td>-28.46</td><td>67.70</td><td>31.90</td><td>11.47</td><td>65.83</td><td>0.30</td><td>400</td><td>60</td><td>PEAK</td></tr><tr><td>8</td><td>5451.00</td><td>42.86</td><td>54.00</td><td>-11.14</td><td>65.02</td><td>31.90</td><td>11.47</td><td>65.83</td><td>0.30</td><td>400</td><td>60</td><td>AVERAGE</td></tr><tr><td>9</td><td>6359.50</td><td>43.58</td><td>74.00</td><td>-30.42</td><td>62.72</td><td>33.66</td><td>12.39</td><td>65.48</td><td>0.29</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>10</td><td>7268.00</td><td>43.93</td><td>74.00</td><td>-30.07</td><td>59.41</td><td>36.54</td><td>13.26</td><td>65.75</td><td>0.47</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>11</td><td>8176.50</td><td>49.67</td><td>74.00</td><td>-24.33</td><td>64.36</td><td>36.79</td><td>14.02</td><td>65.79</td><td>0.29</td><td>100</td><td>10</td><td>PEAK</td></tr><tr><td>12</td><td>8176.50</td><td>47.45</td><td>54.00</td><td>-6.55</td><td>62.14</td><td>36.79</td><td>14.02</td><td>65.79</td><td>0.29</td><td>100</td><td>10</td><td>AVERAGE</td></tr><tr><td>13</td><td>9085.00</td><td>46.31</td><td>74.00</td><td>-27.69</td><td>59.22</td><td>37.87</td><td>14.72</td><td>65.84</td><td>0.34</td><td>--</td><td>--</td><td>PEAK</td></tr></table>		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	1072.00	48.83	74.00	-25.17	86.95	24.02	5.09	68.98	1.75	300	53	PEAK	2	1072.00	46.65	54.00	-7.35	84.77	24.02	5.09	68.98	1.75	300	53	AVERAGE	3	1817.00	46.12	74.00	-27.88	81.70	25.47	6.71	68.18	0.42	--	--	PEAK	4	2725.50	36.02	74.00	-37.98	66.84	27.90	8.20	67.35	0.43	--	--	PEAK	5	3634.00	36.76	74.00	-37.24	64.60	29.27	9.43	66.84	0.30	--	--	PEAK	6	4542.50	38.13	74.00	-35.87	62.86	30.87	10.65	66.62	0.37	--	--	PEAK	7	5451.00	45.54	74.00	-28.46	67.70	31.90	11.47	65.83	0.30	400	60	PEAK	8	5451.00	42.86	54.00	-11.14	65.02	31.90	11.47	65.83	0.30	400	60	AVERAGE	9	6359.50	43.58	74.00	-30.42	62.72	33.66	12.39	65.48	0.29	--	--	PEAK	10	7268.00	43.93	74.00	-30.07	59.41	36.54	13.26	65.75	0.47	--	--	PEAK	11	8176.50	49.67	74.00	-24.33	64.36	36.79	14.02	65.79	0.29	100	10	PEAK	12	8176.50	47.45	54.00	-6.55	62.14	36.79	14.02	65.79	0.29	100	10	AVERAGE	13	9085.00	46.31	74.00	-27.69	59.22	37.87	14.72	65.84	0.34	--	--	PEAK	<p>Site : 03CH16-HY Condition: PEAK_74 3m 91280-1328_241286 VERTICAL</p> <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>1045.00</td><td>47.42</td><td>74.00</td><td>-26.58</td><td>85.30</td><td>24.20</td><td>5.03</td><td>69.01</td><td>1.90</td><td>400</td><td>167</td><td>PEAK</td></tr><tr><td>2</td><td>1045.00</td><td>44.95</td><td>54.00</td><td>-9.05</td><td>82.83</td><td>24.20</td><td>5.03</td><td>69.01</td><td>1.90</td><td>400</td><td>167</td><td>AVERAGE</td></tr><tr><td>3</td><td>1817.00</td><td>51.72</td><td>74.00</td><td>-22.28</td><td>87.30</td><td>25.47</td><td>6.71</td><td>68.18</td><td>0.42</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>4</td><td>2725.50</td><td>36.06</td><td>74.00</td><td>-37.94</td><td>66.88</td><td>27.90</td><td>8.20</td><td>67.35</td><td>0.43</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>5</td><td>3634.00</td><td>36.67</td><td>74.00</td><td>-37.33</td><td>64.51</td><td>29.27</td><td>9.43</td><td>66.84</td><td>0.30</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>6</td><td>4542.50</td><td>38.92</td><td>74.00</td><td>-35.08</td><td>63.65</td><td>30.87</td><td>10.65</td><td>66.62</td><td>0.37</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>7</td><td>5451.00</td><td>50.26</td><td>74.00</td><td>-23.74</td><td>72.42</td><td>31.90</td><td>11.47</td><td>65.83</td><td>0.30</td><td>293</td><td>353</td><td>PEAK</td></tr><tr><td>8</td><td>5451.00</td><td>49.20</td><td>54.00</td><td>-4.80</td><td>71.36</td><td>31.90</td><td>11.47</td><td>65.83</td><td>0.30</td><td>293</td><td>353</td><td>AVERAGE</td></tr><tr><td>9</td><td>6359.50</td><td>42.19</td><td>74.00</td><td>-31.81</td><td>61.33</td><td>33.66</td><td>12.39</td><td>65.48</td><td>0.29</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>10</td><td>7268.00</td><td>49.85</td><td>74.00</td><td>-24.15</td><td>65.33</td><td>36.54</td><td>13.26</td><td>65.75</td><td>0.47</td><td>122</td><td>3</td><td>PEAK</td></tr><tr><td>11</td><td>7268.00</td><td>47.88</td><td>54.00</td><td>-6.92</td><td>62.56</td><td>36.54</td><td>13.26</td><td>65.75</td><td>0.47</td><td>122</td><td>3</td><td>AVERAGE</td></tr><tr><td>12</td><td>8176.50</td><td>50.02</td><td>74.00</td><td>-23.98</td><td>64.71</td><td>36.79</td><td>14.02</td><td>65.79</td><td>0.29</td><td>200</td><td>340</td><td>PEAK</td></tr><tr><td>13</td><td>8176.50</td><td>46.82</td><td>74.00</td><td>-27.18</td><td>61.51</td><td>36.79</td><td>14.02</td><td>65.79</td><td>0.29</td><td>200</td><td>340</td><td>PEAK</td></tr><tr><td>14</td><td>9085.00</td><td>45.37</td><td>74.00</td><td>-28.63</td><td>58.28</td><td>37.87</td><td>14.72</td><td>65.84</td><td>0.34</td><td>--</td><td>--</td><td>PEAK</td></tr></table>		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	1045.00	47.42	74.00	-26.58	85.30	24.20	5.03	69.01	1.90	400	167	PEAK	2	1045.00	44.95	54.00	-9.05	82.83	24.20	5.03	69.01	1.90	400	167	AVERAGE	3	1817.00	51.72	74.00	-22.28	87.30	25.47	6.71	68.18	0.42	--	--	PEAK	4	2725.50	36.06	74.00	-37.94	66.88	27.90	8.20	67.35	0.43	--	--	PEAK	5	3634.00	36.67	74.00	-37.33	64.51	29.27	9.43	66.84	0.30	--	--	PEAK	6	4542.50	38.92	74.00	-35.08	63.65	30.87	10.65	66.62	0.37	--	--	PEAK	7	5451.00	50.26	74.00	-23.74	72.42	31.90	11.47	65.83	0.30	293	353	PEAK	8	5451.00	49.20	54.00	-4.80	71.36	31.90	11.47	65.83	0.30	293	353	AVERAGE	9	6359.50	42.19	74.00	-31.81	61.33	33.66	12.39	65.48	0.29	--	--	PEAK	10	7268.00	49.85	74.00	-24.15	65.33	36.54	13.26	65.75	0.47	122	3	PEAK	11	7268.00	47.88	54.00	-6.92	62.56	36.54	13.26	65.75	0.47	122	3	AVERAGE	12	8176.50	50.02	74.00	-23.98	64.71	36.79	14.02	65.79	0.29	200	340	PEAK	13	8176.50	46.82	74.00	-27.18	61.51	36.79	14.02	65.79	0.29	200	340	PEAK	14	9085.00	45.37	74.00	-28.63	58.28	37.87	14.72	65.84	0.34	--	--	PEAK
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																																																																																																																																																																																												
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1	1072.00	48.83	74.00	-25.17	86.95	24.02	5.09	68.98	1.75	300	53	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
2	1072.00	46.65	54.00	-7.35	84.77	24.02	5.09	68.98	1.75	300	53	AVERAGE																																																																																																																																																																																																																																																																																																																																																																																																													
3	1817.00	46.12	74.00	-27.88	81.70	25.47	6.71	68.18	0.42	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
4	2725.50	36.02	74.00	-37.98	66.84	27.90	8.20	67.35	0.43	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
5	3634.00	36.76	74.00	-37.24	64.60	29.27	9.43	66.84	0.30	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
6	4542.50	38.13	74.00	-35.87	62.86	30.87	10.65	66.62	0.37	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
7	5451.00	45.54	74.00	-28.46	67.70	31.90	11.47	65.83	0.30	400	60	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
8	5451.00	42.86	54.00	-11.14	65.02	31.90	11.47	65.83	0.30	400	60	AVERAGE																																																																																																																																																																																																																																																																																																																																																																																																													
9	6359.50	43.58	74.00	-30.42	62.72	33.66	12.39	65.48	0.29	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
10	7268.00	43.93	74.00	-30.07	59.41	36.54	13.26	65.75	0.47	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
11	8176.50	49.67	74.00	-24.33	64.36	36.79	14.02	65.79	0.29	100	10	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
12	8176.50	47.45	54.00	-6.55	62.14	36.79	14.02	65.79	0.29	100	10	AVERAGE																																																																																																																																																																																																																																																																																																																																																																																																													
13	9085.00	46.31	74.00	-27.69	59.22	37.87	14.72	65.84	0.34	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
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1	1045.00	47.42	74.00	-26.58	85.30	24.20	5.03	69.01	1.90	400	167	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
2	1045.00	44.95	54.00	-9.05	82.83	24.20	5.03	69.01	1.90	400	167	AVERAGE																																																																																																																																																																																																																																																																																																																																																																																																													
3	1817.00	51.72	74.00	-22.28	87.30	25.47	6.71	68.18	0.42	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
4	2725.50	36.06	74.00	-37.94	66.88	27.90	8.20	67.35	0.43	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
5	3634.00	36.67	74.00	-37.33	64.51	29.27	9.43	66.84	0.30	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
6	4542.50	38.92	74.00	-35.08	63.65	30.87	10.65	66.62	0.37	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
7	5451.00	50.26	74.00	-23.74	72.42	31.90	11.47	65.83	0.30	293	353	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
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9	6359.50	42.19	74.00	-31.81	61.33	33.66	12.39	65.48	0.29	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
10	7268.00	49.85	74.00	-24.15	65.33	36.54	13.26	65.75	0.47	122	3	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
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13	8176.50	46.82	74.00	-27.18	61.51	36.79	14.02	65.79	0.29	200	340	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													
14	9085.00	45.37	74.00	-28.63	58.28	37.87	14.72	65.84	0.34	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																																													

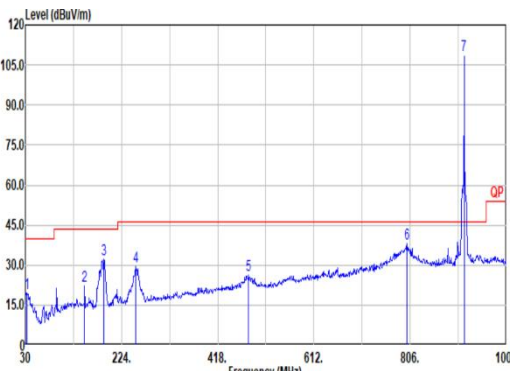
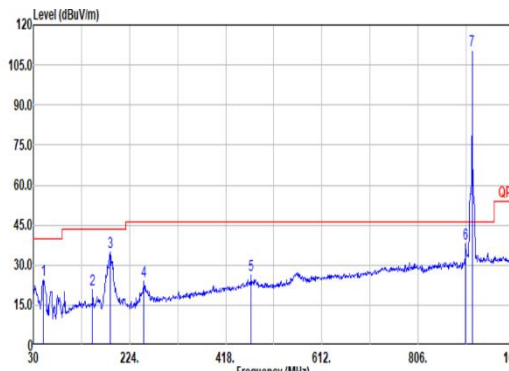


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QP/ Peak	<div><p>Site : 03CH16-HY Condition: QP 3m CBL6111D80002N1D01N-06_47020 & 06_241005 HORIZONTAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>NHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>30.97</td><td>20.39</td><td>40.00</td><td>-19.61</td><td>27.00</td><td>24.25</td><td>0.90</td><td>32.61</td><td>0.05 -- -- Peak</td></tr><tr><td>2</td><td>93.05</td><td>20.43</td><td>43.50</td><td>-23.07</td><td>36.27</td><td>15.16</td><td>1.50</td><td>32.57</td><td>0.07 -- -- Peak</td></tr><tr><td>3</td><td>185.20</td><td>33.34</td><td>43.50</td><td>-10.16</td><td>48.30</td><td>15.14</td><td>2.12</td><td>32.30</td><td>0.08 -- -- Peak</td></tr><tr><td>4</td><td>253.10</td><td>30.75</td><td>46.00</td><td>-15.25</td><td>41.53</td><td>19.09</td><td>2.46</td><td>32.40</td><td>0.07 -- -- Peak</td></tr><tr><td>5</td><td>483.96</td><td>27.66</td><td>46.00</td><td>-18.34</td><td>33.33</td><td>23.53</td><td>3.41</td><td>32.76</td><td>0.15 -- -- Peak</td></tr><tr><td>6</td><td>793.39</td><td>37.89</td><td>46.00</td><td>-8.11</td><td>37.42</td><td>28.09</td><td>4.36</td><td>32.19</td><td>0.21 -- -- Peak</td></tr><tr><td>7</td><td>908.82</td><td>107.61</td><td>-----</td><td>-----</td><td>105.52</td><td>29.40</td><td>4.69</td><td>32.18</td><td>0.18 100 16 Peak</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		NHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	30.97	20.39	40.00	-19.61	27.00	24.25	0.90	32.61	0.05 -- -- Peak	2	93.05	20.43	43.50	-23.07	36.27	15.16	1.50	32.57	0.07 -- -- Peak	3	185.20	33.34	43.50	-10.16	48.30	15.14	2.12	32.30	0.08 -- -- Peak	4	253.10	30.75	46.00	-15.25	41.53	19.09	2.46	32.40	0.07 -- -- Peak	5	483.96	27.66	46.00	-18.34	33.33	23.53	3.41	32.76	0.15 -- -- Peak	6	793.39	37.89	46.00	-8.11	37.42	28.09	4.36	32.19	0.21 -- -- Peak	7	908.82	107.61	-----	-----	105.52	29.40	4.69	32.18	0.18 100 16 Peak	<div><p>Site : 03CH16-HY Condition: QP 3m CBL6111D80002N1D01N-06_47020 & 06_241005 VERTICAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>NHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>51.34</td><td>24.85</td><td>40.00</td><td>-15.15</td><td>42.10</td><td>13.96</td><td>1.12</td><td>32.38</td><td>0.05 -- -- Peak</td></tr><tr><td>2</td><td>185.20</td><td>33.98</td><td>43.50</td><td>-9.52</td><td>48.94</td><td>15.14</td><td>2.12</td><td>32.30</td><td>0.08 -- -- Peak</td></tr><tr><td>3</td><td>255.04</td><td>25.50</td><td>46.00</td><td>-20.42</td><td>36.05</td><td>19.38</td><td>2.47</td><td>32.39</td><td>0.07 -- -- Peak</td></tr><tr><td>4</td><td>476.20</td><td>25.79</td><td>46.00</td><td>-20.21</td><td>31.59</td><td>23.37</td><td>3.39</td><td>32.71</td><td>0.15 -- -- Peak</td></tr><tr><td>5</td><td>708.03</td><td>30.06</td><td>46.00</td><td>-15.94</td><td>31.23</td><td>26.73</td><td>4.13</td><td>32.17</td><td>0.14 -- -- Peak</td></tr><tr><td>6</td><td>794.36</td><td>34.08</td><td>46.00</td><td>-11.92</td><td>33.60</td><td>28.09</td><td>4.37</td><td>32.19</td><td>0.21 -- -- Peak</td></tr><tr><td>7</td><td>908.82</td><td>109.07</td><td>-----</td><td>-----</td><td>106.98</td><td>29.40</td><td>4.69</td><td>32.18</td><td>0.18 100 109 Peak</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		NHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	51.34	24.85	40.00	-15.15	42.10	13.96	1.12	32.38	0.05 -- -- Peak	2	185.20	33.98	43.50	-9.52	48.94	15.14	2.12	32.30	0.08 -- -- Peak	3	255.04	25.50	46.00	-20.42	36.05	19.38	2.47	32.39	0.07 -- -- Peak	4	476.20	25.79	46.00	-20.21	31.59	23.37	3.39	32.71	0.15 -- -- Peak	5	708.03	30.06	46.00	-15.94	31.23	26.73	4.13	32.17	0.14 -- -- Peak	6	794.36	34.08	46.00	-11.92	33.60	28.09	4.37	32.19	0.21 -- -- Peak	7	908.82	109.07	-----	-----	106.98	29.40	4.69	32.18	0.18 100 109 Peak
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<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>1845.00</td><td>48.60</td><td>74.00</td><td>-25.40</td><td>86.48</td><td>24.20</td><td>5.03</td><td>69.01</td><td>1.90</td><td>300</td><td>61</td><td>PEAK</td></tr><tr><td>2</td><td>1845.00</td><td>46.52</td><td>54.00</td><td>-7.48</td><td>84.40</td><td>24.20</td><td>5.03</td><td>69.01</td><td>1.90</td><td>300</td><td>61</td><td>AVERAGE</td></tr><tr><td>3</td><td>1828.40</td><td>46.39</td><td>74.00</td><td>-27.61</td><td>81.84</td><td>25.58</td><td>6.73</td><td>68.17</td><td>0.41</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>4</td><td>2742.60</td><td>36.48</td><td>74.00</td><td>-37.52</td><td>67.35</td><td>27.00</td><td>8.23</td><td>67.33</td><td>0.43</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>5</td><td>3656.00</td><td>36.21</td><td>74.00</td><td>-37.79</td><td>64.02</td><td>29.29</td><td>9.46</td><td>66.85</td><td>0.29</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>6</td><td>4571.00</td><td>39.45</td><td>74.00</td><td>-34.55</td><td>64.02</td><td>30.94</td><td>10.69</td><td>66.59</td><td>0.39</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>7</td><td>5485.20</td><td>50.05</td><td>74.00</td><td>-23.95</td><td>72.07</td><td>31.97</td><td>11.51</td><td>65.80</td><td>0.30</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>8</td><td>6399.40</td><td>45.52</td><td>74.00</td><td>-28.48</td><td>64.41</td><td>33.90</td><td>12.41</td><td>65.49</td><td>0.29</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>9</td><td>7313.60</td><td>51.99</td><td>74.00</td><td>-22.01</td><td>67.45</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.44</td><td>200</td><td>57</td><td>PEAK</td></tr><tr><td>10</td><td>7313.60</td><td>46.45</td><td>54.00</td><td>-7.55</td><td>61.91</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.44</td><td>200</td><td>57</td><td>AVERAGE</td></tr><tr><td>11</td><td>8227.80</td><td>50.65</td><td>74.00</td><td>-23.35</td><td>65.48</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.29</td><td>206</td><td>21</td><td>PEAK</td></tr><tr><td>12</td><td>8227.80</td><td>44.43</td><td>54.00</td><td>-9.57</td><td>59.26</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.29</td><td>206</td><td>21</td><td>AVERAGE</td></tr><tr><td>13</td><td>9142.00</td><td>46.25</td><td>74.00</td><td>-27.75</td><td>58.93</td><td>38.07</td><td>14.75</td><td>65.85</td><td>0.35</td><td>--</td><td>--</td><td>PEAK</td></tr></table>	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	1845.00	48.60	74.00	-25.40	86.48	24.20	5.03	69.01	1.90	300	61	PEAK	2	1845.00	46.52	54.00	-7.48	84.40	24.20	5.03	69.01	1.90	300	61	AVERAGE	3	1828.40	46.39	74.00	-27.61	81.84	25.58	6.73	68.17	0.41	--	--	PEAK	4	2742.60	36.48	74.00	-37.52	67.35	27.00	8.23	67.33	0.43	--	--	PEAK	5	3656.00	36.21	74.00	-37.79	64.02	29.29	9.46	66.85	0.29	--	--	PEAK	6	4571.00	39.45	74.00	-34.55	64.02	30.94	10.69	66.59	0.39	--	--	PEAK	7	5485.20	50.05	74.00	-23.95	72.07	31.97	11.51	65.80	0.30	--	--	PEAK	8	6399.40	45.52	74.00	-28.48	64.41	33.90	12.41	65.49	0.29	--	--	PEAK	9	7313.60	51.99	74.00	-22.01	67.45	36.57	13.29	65.76	0.44	200	57	PEAK	10	7313.60	46.45	54.00	-7.55	61.91	36.57	13.29	65.76	0.44	200	57	AVERAGE	11	8227.80	50.65	74.00	-23.35	65.48	36.59	14.08	65.79	0.29	206	21	PEAK	12	8227.80	44.43	54.00	-9.57	59.26	36.59	14.08	65.79	0.29	206	21	AVERAGE	13	9142.00	46.25	74.00	-27.75	58.93	38.07	14.75	65.85	0.35	--	--	PEAK	<div>Site : 03CH16-HY Condition: PEAK_74 3m 91200-1328_241206 VERTICAL</div> <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>1899.00</td><td>47.60</td><td>74.00</td><td>-26.40</td><td>85.33</td><td>24.47</td><td>5.16</td><td>68.95</td><td>1.59</td><td>287</td><td>178</td><td>PEAK</td></tr><tr><td>2</td><td>1899.00</td><td>45.08</td><td>54.00</td><td>-8.92</td><td>82.81</td><td>24.47</td><td>5.16</td><td>68.95</td><td>1.59</td><td>287</td><td>178</td><td>AVERAGE</td></tr><tr><td>3</td><td>1828.40</td><td>49.29</td><td>74.00</td><td>-24.71</td><td>84.74</td><td>25.58</td><td>6.73</td><td>68.17</td><td>0.41</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>4</td><td>2742.60</td><td>37.84</td><td>74.00</td><td>-36.16</td><td>68.71</td><td>27.00</td><td>8.23</td><td>67.33</td><td>0.43</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>5</td><td>3656.00</td><td>36.37</td><td>74.00</td><td>-37.63</td><td>64.18</td><td>29.29</td><td>9.46</td><td>66.85</td><td>0.29</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>6</td><td>4571.00</td><td>38.00</td><td>74.00</td><td>-36.00</td><td>62.57</td><td>30.94</td><td>10.69</td><td>66.59</td><td>0.39</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>7</td><td>5485.20</td><td>56.40</td><td>74.00</td><td>-17.60</td><td>70.42</td><td>31.97</td><td>11.51</td><td>65.80</td><td>0.30</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>8</td><td>6399.40</td><td>45.25</td><td>74.00</td><td>-28.75</td><td>64.14</td><td>33.90</td><td>12.41</td><td>65.49</td><td>0.29</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>9</td><td>7313.60</td><td>55.62</td><td>74.00</td><td>-18.38</td><td>71.08</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.44</td><td>200</td><td>359</td><td>PEAK</td></tr><tr><td>10</td><td>7313.60</td><td>50.82</td><td>54.00</td><td>-3.18</td><td>66.28</td><td>36.57</td><td>13.29</td><td>65.76</td><td>0.44</td><td>200</td><td>359</td><td>AVERAGE</td></tr><tr><td>11</td><td>8227.80</td><td>51.16</td><td>74.00</td><td>-22.84</td><td>65.99</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.29</td><td>200</td><td>359</td><td>PEAK</td></tr><tr><td>12</td><td>8227.80</td><td>43.36</td><td>54.00</td><td>-10.64</td><td>58.19</td><td>36.59</td><td>14.08</td><td>65.79</td><td>0.29</td><td>200</td><td>359</td><td>AVERAGE</td></tr><tr><td>13</td><td>9142.00</td><td>47.32</td><td>74.00</td><td>-26.68</td><td>60.00</td><td>38.07</td><td>14.75</td><td>65.85</td><td>0.35</td><td>--</td><td>--</td><td>PEAK</td></tr></table>	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	1899.00	47.60	74.00	-26.40	85.33	24.47	5.16	68.95	1.59	287	178	PEAK	2	1899.00	45.08	54.00	-8.92	82.81	24.47	5.16	68.95	1.59	287	178	AVERAGE	3	1828.40	49.29	74.00	-24.71	84.74	25.58	6.73	68.17	0.41	--	--	PEAK	4	2742.60	37.84	74.00	-36.16	68.71	27.00	8.23	67.33	0.43	--	--	PEAK	5	3656.00	36.37	74.00	-37.63	64.18	29.29	9.46	66.85	0.29	--	--	PEAK	6	4571.00	38.00	74.00	-36.00	62.57	30.94	10.69	66.59	0.39	--	--	PEAK	7	5485.20	56.40	74.00	-17.60	70.42	31.97	11.51	65.80	0.30	--	--	PEAK	8	6399.40	45.25	74.00	-28.75	64.14	33.90	12.41	65.49	0.29	--	--	PEAK	9	7313.60	55.62	74.00	-18.38	71.08	36.57	13.29	65.76	0.44	200	359	PEAK	10	7313.60	50.82	54.00	-3.18	66.28	36.57	13.29	65.76	0.44	200	359	AVERAGE	11	8227.80	51.16	74.00	-22.84	65.99	36.59	14.08	65.79	0.29	200	359	PEAK	12	8227.80	43.36	54.00	-10.64	58.19	36.59	14.08	65.79	0.29	200	359	AVERAGE	13	9142.00	47.32	74.00	-26.68	60.00	38.07	14.75	65.85	0.35	--	--	PEAK
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3	1828.40	46.39	74.00	-27.61	81.84	25.58	6.73	68.17	0.41	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
4	2742.60	36.48	74.00	-37.52	67.35	27.00	8.23	67.33	0.43	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
5	3656.00	36.21	74.00	-37.79	64.02	29.29	9.46	66.85	0.29	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
6	4571.00	39.45	74.00	-34.55	64.02	30.94	10.69	66.59	0.39	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
7	5485.20	50.05	74.00	-23.95	72.07	31.97	11.51	65.80	0.30	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
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3	1828.40	49.29	74.00	-24.71	84.74	25.58	6.73	68.17	0.41	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
4	2742.60	37.84	74.00	-36.16	68.71	27.00	8.23	67.33	0.43	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
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6	4571.00	38.00	74.00	-36.00	62.57	30.94	10.69	66.59	0.39	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
7	5485.20	56.40	74.00	-17.60	70.42	31.97	11.51	65.80	0.30	--	--	PEAK																																																																																																																																																																																																																																																																																																																																																																																												
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QP/ Peak	<div><p>Site : 03CH16-HY Condition: QP 3m CBL6111D80002N1D01N-06_47020 & 06_241005 HORIZONTAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>33.88</td><td>19.64</td><td>40.00</td><td>-20.36</td><td>28.34</td><td>22.91</td><td>0.92</td><td>32.58</td><td>0.05 -- -- Peak</td></tr><tr><td>2</td><td>149.31</td><td>22.37</td><td>43.50</td><td>-21.13</td><td>35.46</td><td>17.41</td><td>1.91</td><td>32.48</td><td>0.07 -- -- Peak</td></tr><tr><td>3</td><td>188.11</td><td>32.03</td><td>43.50</td><td>-11.47</td><td>47.15</td><td>15.03</td><td>2.13</td><td>32.36</td><td>0.08 -- -- Peak</td></tr><tr><td>4</td><td>253.10</td><td>29.41</td><td>46.00</td><td>-16.59</td><td>40.19</td><td>19.09</td><td>2.46</td><td>32.40</td><td>0.07 -- -- Peak</td></tr><tr><td>5</td><td>480.00</td><td>26.43</td><td>46.00</td><td>-19.57</td><td>32.21</td><td>23.41</td><td>3.40</td><td>32.74</td><td>0.15 -- -- Peak</td></tr><tr><td>6</td><td>800.18</td><td>38.05</td><td>46.00</td><td>-7.95</td><td>37.58</td><td>28.08</td><td>4.38</td><td>32.21</td><td>0.22 -- -- Peak</td></tr><tr><td>7</td><td>914.64</td><td>108.68</td><td>-----</td><td>-----</td><td>106.31</td><td>29.59</td><td>4.71</td><td>32.12</td><td>0.19 200 46 Peak</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	33.88	19.64	40.00	-20.36	28.34	22.91	0.92	32.58	0.05 -- -- Peak	2	149.31	22.37	43.50	-21.13	35.46	17.41	1.91	32.48	0.07 -- -- Peak	3	188.11	32.03	43.50	-11.47	47.15	15.03	2.13	32.36	0.08 -- -- Peak	4	253.10	29.41	46.00	-16.59	40.19	19.09	2.46	32.40	0.07 -- -- Peak	5	480.00	26.43	46.00	-19.57	32.21	23.41	3.40	32.74	0.15 -- -- Peak	6	800.18	38.05	46.00	-7.95	37.58	28.08	4.38	32.21	0.22 -- -- Peak	7	914.64	108.68	-----	-----	106.31	29.59	4.71	32.12	0.19 200 46 Peak	<div><p>Site : 03CH16-HY Condition: QP 3m CBL6111D80002N1D01N-06_47020 & 06_241005 VERTICAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>50.37</td><td>24.66</td><td>40.00</td><td>-15.34</td><td>41.47</td><td>14.42</td><td>1.11</td><td>32.39</td><td>0.05 -- -- Peak</td></tr><tr><td>2</td><td>149.31</td><td>20.91</td><td>43.50</td><td>-22.59</td><td>34.00</td><td>17.41</td><td>1.91</td><td>32.48</td><td>0.07 -- -- Peak</td></tr><tr><td>3</td><td>185.20</td><td>34.93</td><td>43.50</td><td>-8.57</td><td>49.09</td><td>15.14</td><td>2.12</td><td>32.30</td><td>0.08 -- -- Peak</td></tr><tr><td>4</td><td>253.10</td><td>23.89</td><td>46.00</td><td>-22.11</td><td>34.67</td><td>19.09</td><td>2.46</td><td>32.40</td><td>0.07 -- -- Peak</td></tr><tr><td>5</td><td>469.41</td><td>26.40</td><td>46.00</td><td>-19.60</td><td>32.20</td><td>23.36</td><td>3.37</td><td>32.67</td><td>0.14 -- -- Peak</td></tr><tr><td>6</td><td>802.03</td><td>38.04</td><td>46.00</td><td>-7.96</td><td>36.19</td><td>29.26</td><td>4.68</td><td>32.25</td><td>0.16 -- -- Peak</td></tr><tr><td>7</td><td>914.64</td><td>110.49</td><td>-----</td><td>-----</td><td>108.12</td><td>29.59</td><td>4.71</td><td>32.12</td><td>0.19 100 109 Peak</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	50.37	24.66	40.00	-15.34	41.47	14.42	1.11	32.39	0.05 -- -- Peak	2	149.31	20.91	43.50	-22.59	34.00	17.41	1.91	32.48	0.07 -- -- Peak	3	185.20	34.93	43.50	-8.57	49.09	15.14	2.12	32.30	0.08 -- -- Peak	4	253.10	23.89	46.00	-22.11	34.67	19.09	2.46	32.40	0.07 -- -- Peak	5	469.41	26.40	46.00	-19.60	32.20	23.36	3.37	32.67	0.14 -- -- Peak	6	802.03	38.04	46.00	-7.96	36.19	29.26	4.68	32.25	0.16 -- -- Peak	7	914.64	110.49	-----	-----	108.12	29.59	4.71	32.12	0.19 100 109 Peak
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Lora BW 125KHz SF 10TX	70.38	240000	0.00	30Hz
Lora BW 500KHz SF 8 TX	14.82	17700	0.06	100Hz

