

FCC TEST REPORT

FCC ID:2BC96NB-CMA10

Product : Birdfy Cam BA7A
Model Name : NB-CMA10, NB-CMA10-XXXXXX(XXXXXX can be A-Z,
0-9,a-z or blank, indicate different color)
Brand : Birdfy
Report No. : NCT260221053XE1-3

Prepared for

NETVUE INC.

1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106 United States

Prepared by

Shenzhen NCT Testing Technology Co., Ltd.

**A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District,
Shenzhen, People's Republic of China**

TEL: 400-8868-419

1 TEST RESULT CERTIFICATION

Applicant : NETVUE INC.

Address : 1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106 United States

Manufacturer : NETVUE INC.

Address : 1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106 United States

Product name : Birdfy Cam BA7A

Model name : NB-CMA10, NB-CMA10-XXXXXX(XXXXXX can be A-Z, 0-9,a-z or blank, indicate different color)

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.407
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
KDB 789033 D02 v02r01

Test procedure : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Date of test : May 25, 2026 ~ Jun. 08, 2026

Date of Issue : Jun. 08, 2026

This device described above has been tested by NCT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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2 Test Summary

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.407(b), 15.209	Radiated Spurious Emission	PASS	
15.207	Conducted Emission	PASS	
15.407 (a) 15.407 (e)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407(b)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

3 TEST FACILITY

Site Description

EMC Lab. : Accredited by CNAS, 2022-09-27

The certificate is valid until 2028.01.07

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L8251

Designation Number: CN1347

Test Firm Registration Number: 894804

Accredited by A2LA, June 14, 2023

The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018

The Conformity Assessment Body Identifier is CN0150

Company Number: 30806

Name of Firm : Shenzhen NCT Testing Technology Co., Ltd.

Site Location : A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District, Shenzhen, People's Republic of China

4 General Information

4.1 General Description of E.U.T.

Product Name	:	Birdfy Cam BA7A
Model No.	:	NB-CMA10
Sample ID	:	26021053X-001#
Sample(s) Status	:	Engineer sample
Series model.	:	NB-CMA10-XXXXXX(XXXXXX can be A-Z, 0-9,a-z or blank, indicate different color)
Model Different.	:	All the same except the model number and color.
Operation Frequency	:	UNII-1: 5180MHz~5240MHz UNII-3:5745MHz~5825MHz
Modulation type	:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac/ax OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ax
Antenna Type	:	FPC Antenna
Antenna gain	:	WIFI5.2G: 0.88dBi WIFI5.8G: 2.47dBi
Power supply	:	DC 3.7V or DC 3.6V from battery; Charging input: DC 5V
Battery 1	:	Model Number: 18650P5200 Parameter: 3.7V,5200mAh 19.24Wh
Battery 2	:	Model Number: 21700P9000 Parameter: 3.7V,9000mAh 33.3Wh
Battery 3	:	Model Number: DHDC 18650-2P Parameter: 3.6V 5200mAh 18.72Wh
Battery 4	:	Model Number: DHDC 21700-2P Parameter: 3.6V 9000mAh 32.4Wh
Support RU	:	☒ Full RU ☐ Partial RU
Hardware Version	:	N/A
Software Version	:	N/A
Remark	:	802.11AX only support full RU. the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.

802.11a/n/ac/ax(20MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240

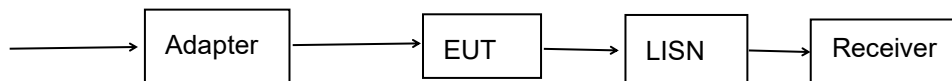
802.11/n/ac/ax(40MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	-	-	-	-

802.11a/n/ac/ax(20 MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11/n/ac/ax(40MHz) Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

4.2 Test Setup Configuration

Conducted Emission



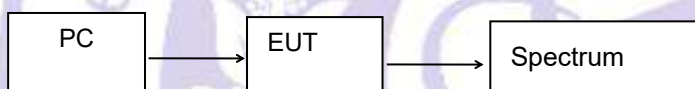
Radiated Emission (30MHz-1GHz)



Radiated Emission(above 1GHz)



Conducted Spurious



4.3 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	FMC3262K
Power level setup parameter	42

4.4 Test voltage stability

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans. were completed in all Modes to determine worst case levels.

Voltage Fluctuation Test		Normal Voltage	High Voltage: Normal Voltage+ 10% of Normal Voltage	Low Voltage: Normal Voltage- 10% of Normal Voltage
Test Voltage(Battery 1)		DC 3.7V	DC 4.07V	DC 3.33V
RF Module Voltage		DC 3.30V	DC 3.305	DC 3.301
Voltage error(%)	Result	Ref.level	0.15	0.03

Voltage Fluctuation Test		Normal Voltage	High Voltage: Normal Voltage+ 10% of Normal Voltage	Low Voltage: Normal Voltage- 10% of Normal Voltage
Test Voltage(Battery 2)		DC 3.7V	DC 4.07V	DC 3.33V
RF Module Voltage		DC 3.30V	DC 3.301	DC 3.302
Voltage error(%)	Result	Ref.level	0.03	0.06

Voltage Fluctuation Test		Normal Voltage	High Voltage: Normal Voltage+ 10% of Normal Voltage	Low Voltage: Normal Voltage- 10% of Normal Voltage
Test Voltage(Battery 3)		DC 3.7V	DC 4.07V	DC 3.33V
RF Module Voltage		DC 3.30V	DC 3.302	DC 3.303
Voltage error(%)	Result	Ref.level	0.06	0.09

Voltage Fluctuation Test		Normal Voltage	High Voltage: Normal Voltage+ 10% of Normal Voltage	Low Voltage: Normal Voltage- 10% of Normal Voltage
Test Voltage(Battery 4)		DC 3.6V	DC 3.93V	DC 3.24V
RF Module Voltage		DC 3.30V	DC 3.305	DC 3.302
Voltage error(%)	Result	Ref.level	0.15	0.06

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

Remark: When battery 1, battery 2, battery 3 and battery 4 were supplying power independently, the voltage of the module remained stable and the voltage fluctuations were negligible. Under this condition, we measured the power supplied by the two batteries and selected the battery with the higher power to test the RF data.

5 Equipment During Test

5.1 Equipments List

Conducted emission Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	944 Room	/	EMToni	2025/1/17	2028/1/16
EMI Test Receiver	ESPI	101604	Rohde & Schwarz	2025/6/10	2026/6/09
LISN	ENV 216	102796	Rohde & Schwarz	2025/6/10	2026/6/09
LISN	VN1-13S	004023	CRANAGE	2025/6/10	2026/6/09
Cable	RG223-1500MM	NA	RG	2025/6/10	2026/6/09

Radiated emission & Radio Frequency Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/1/17	2028/1/16
EMI Test Receiver	ESCI	101178	Rohde & Schwarz	2025/6/10	2026/6/09
Amplifier (30MHz-1GHz)	BBV 9743 B	00374	SCHNWARZBECK	2025/6/10	2026/6/09
Power Meter	ML2495A	10084	Anritu	2025/6/10	2026/6/09
Bilog Antenna (30MHz-1GHz)	VULB9162	00473	SCHNWARZBECK	2026/3/07	2027/3/06
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHNWARZBECK	2026/3/07	2027/3/06
Pream plifier (1GHz-18GHz)	BBV 9718D	0024	SCHNWARZBECK	2025/6/10	2026/6/09
Spectrum Analyze (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/6/10	2026/6/09
Pream plifier (18GHz-40GHz)	BBV 9721	0056	SCHNWARZBECK	2025/6/10	2026/6/09
Double Ridge Guide Horn Antenna (18GHz- 40GHz)	SAS-574	588	A.H.System	2026/3/09	2027/3/08
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHNWARZBECK	2025/6/10	2026/6/09
Comprehensive tester	CWM500	104995	Rohde & Schwarz	2025/6/10	2026/6/09
Amplifier (9KHz-30MHz)	BBV 9745	00109	CHNWARZBECK	2025/6/10	2026/6/09
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/6/10	2026/6/09
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/6/10	2026/6/09

MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/6/10	2026/6/09
Power Sensor	TR1029-2	512364	Techoy	2025/6/10	2026/6/09
constant temperature and humidity chamber	OJN-9606	/	Zhongheng	2026/2/17	2027/2/16
RF Switch	TR1029-1	512364	Techoy	2025/6/10	2026/6/09
Cable	DA800-4000MM	NA	DA	2025/6/10	2026/6/09
Cable	DA800-11000MM	NA	DA	2025/6/10	2026/6/09

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

5.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.24dB
Radiated Emission(9KHz~30MHz)	±4.51dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Radiated Emission(25GHz~40GHz)	±3.38dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

5.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Birdfy Cam BA7A	N/A	NB-CMA10	N/A	EUT
E-2	AC/DC Adapter	TIANYIN	TPA-418G0502000UU01	B98787L5E00423	Auxiliary

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

6 Conducted Emission

Test Requirement: : FCC CFR 47 Part 15 Section 15.207

Test Method: : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: : PASS

Frequency Range: : 150kHz to 30MHz

Class/Severity: : Class B

Detector: : Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment :

Temperature: : 23.2°C

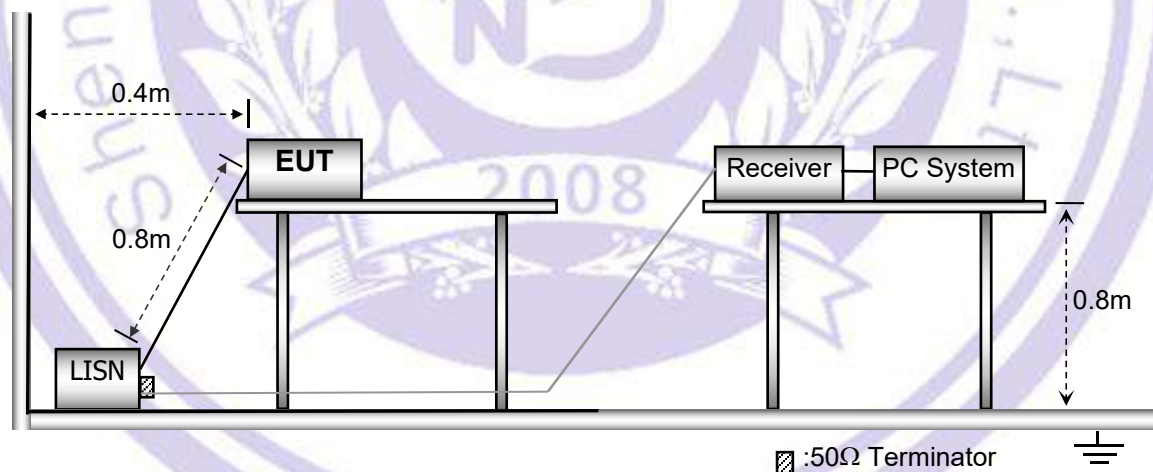
Humidity: : 51 % RH

Atmospheric Pressure: : 101.12 kPa

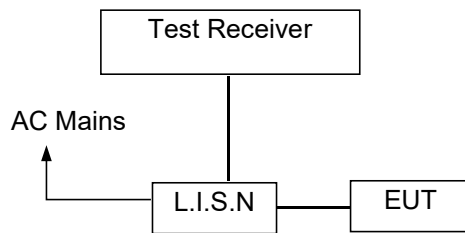
Test Voltage : AC 120V/60Hz

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024



6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Procedure:

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

6.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

6.6 Measurement Description

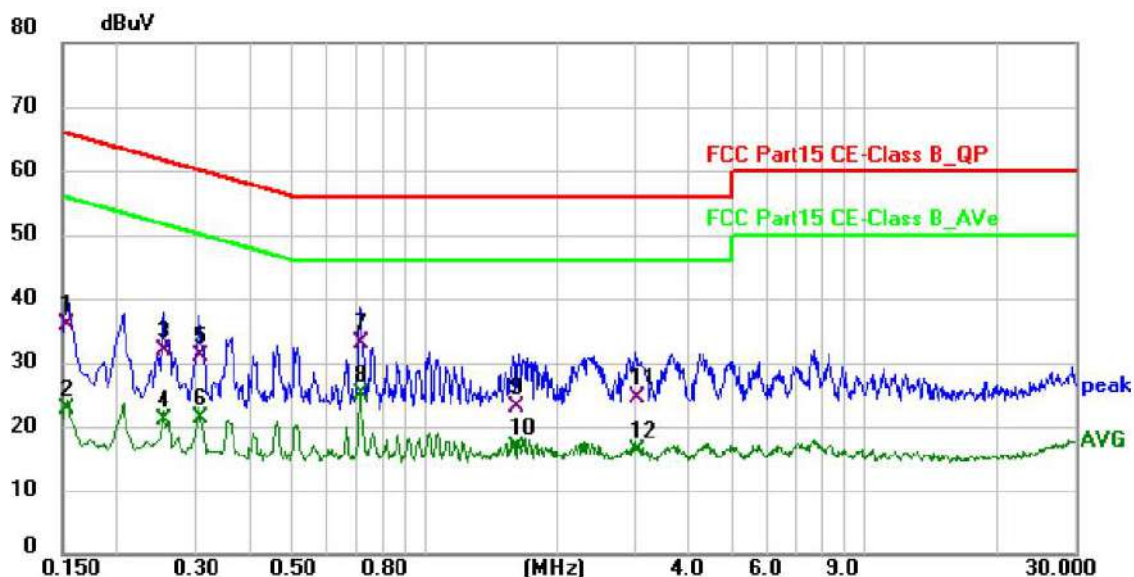
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.7 Conducted Emission Test Result

Pass.

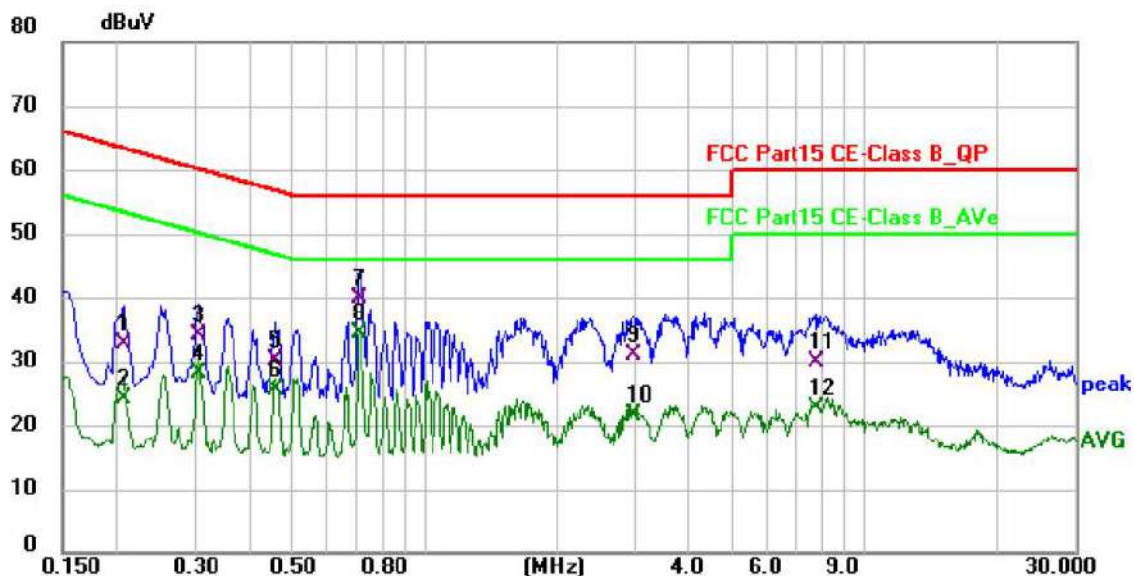
All the modulation modes were tested the data of the worst mode (802.11a, Lowest channel) are recorded in the following pages and the others modulation methods do not exceed the limits.

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 1)



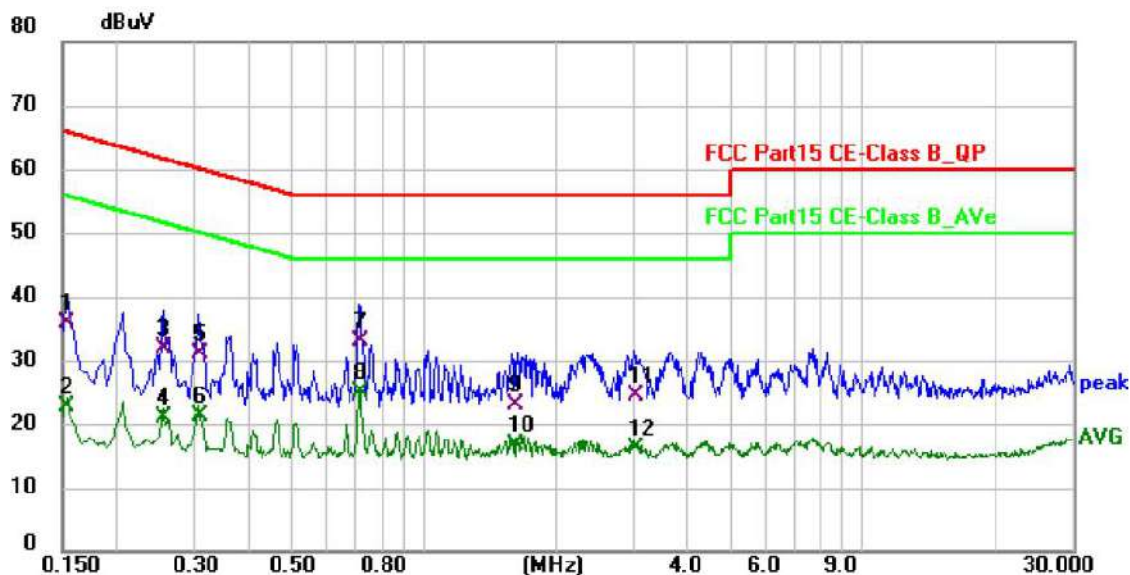
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1538	16.20	19.54	35.74	65.79	-30.05	QP
2	0.1538	3.23	19.54	22.77	55.79	-33.02	AVG
3	0.2545	12.18	19.55	31.73	61.61	-29.88	QP
4	0.2545	1.32	19.55	20.87	51.61	-30.74	AVG
5	0.3082	11.71	19.39	31.10	60.02	-28.92	QP
6	0.3082	1.90	19.39	21.29	50.02	-28.73	AVG
7	0.7126	13.63	19.45	33.08	56.00	-22.92	QP
8 *	0.7126	5.57	19.45	25.02	46.00	-20.98	AVG
9	1.6267	3.47	19.41	22.88	56.00	-33.12	QP
10	1.6267	-2.56	19.41	16.85	46.00	-29.15	AVG
11	3.0211	5.01	19.36	24.37	56.00	-31.63	QP
12	3.0211	-3.18	19.36	16.18	46.00	-29.82	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 1)



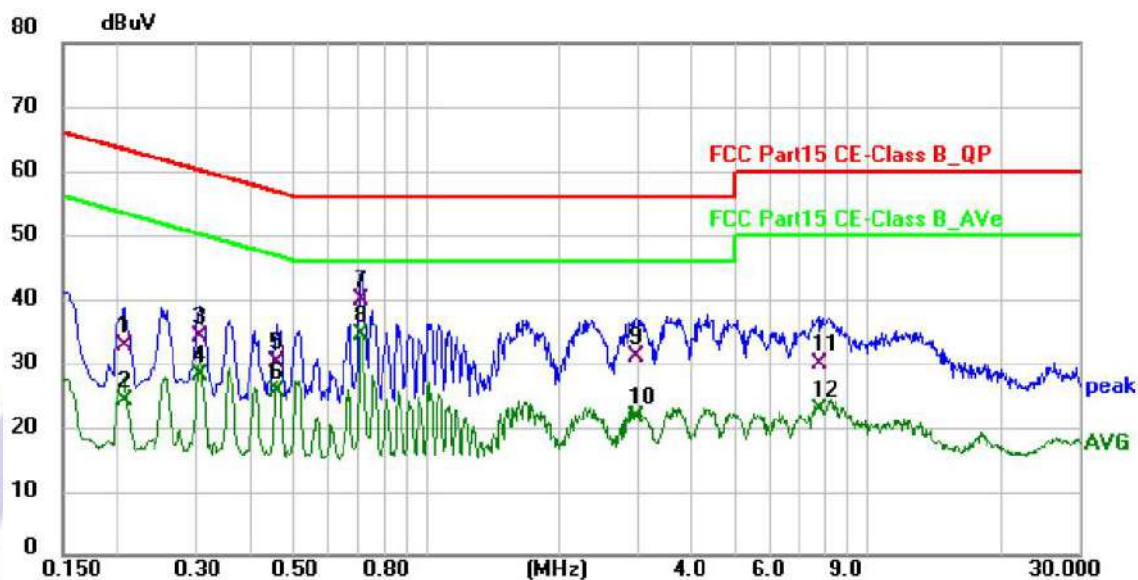
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2066	13.33	19.52	32.85	63.34	-30.49	QP
2	0.2066	4.55	19.52	24.07	53.34	-29.27	AVG
3	0.3050	14.65	19.54	34.19	60.11	-25.92	QP
4	0.3050	8.67	19.54	28.21	50.11	-21.90	AVG
5	0.4603	10.80	19.48	30.28	56.69	-26.41	QP
6	0.4603	6.17	19.48	25.65	46.69	-21.04	AVG
7	0.7149	20.41	19.50	39.91	56.00	-16.09	QP
8 *	0.7149	14.83	19.50	34.33	46.00	-11.67	AVG
9	2.9723	11.58	19.53	31.11	56.00	-24.89	QP
10	2.9723	2.02	19.53	21.55	46.00	-24.45	AVG
11	7.7462	10.27	19.53	29.80	60.00	-30.20	QP
12	7.7462	3.11	19.53	22.64	50.00	-27.36	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 2)



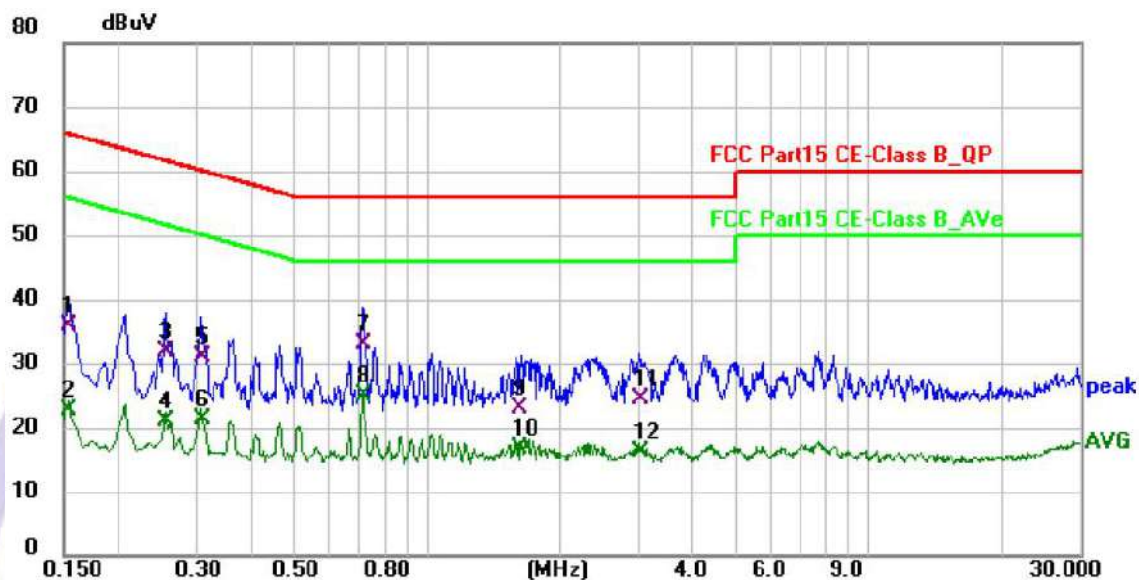
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1538	16.20	19.54	35.74	65.79	-30.05	QP
2	0.1538	3.23	19.54	22.77	55.79	-33.02	AVG
3	0.2545	12.18	19.55	31.73	61.61	-29.88	QP
4	0.2545	1.32	19.55	20.87	51.61	-30.74	AVG
5	0.3082	11.71	19.39	31.10	60.02	-28.92	QP
6	0.3082	1.90	19.39	21.29	50.02	-28.73	AVG
7	0.7126	13.63	19.45	33.08	56.00	-22.92	QP
8 *	0.7126	5.57	19.45	25.02	46.00	-20.98	AVG
9	1.6267	3.47	19.41	22.88	56.00	-33.12	QP
10	1.6267	-2.56	19.41	16.85	46.00	-29.15	AVG
11	3.0211	5.01	19.36	24.37	56.00	-31.63	QP
12	3.0211	-3.18	19.36	16.18	46.00	-29.82	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 2)



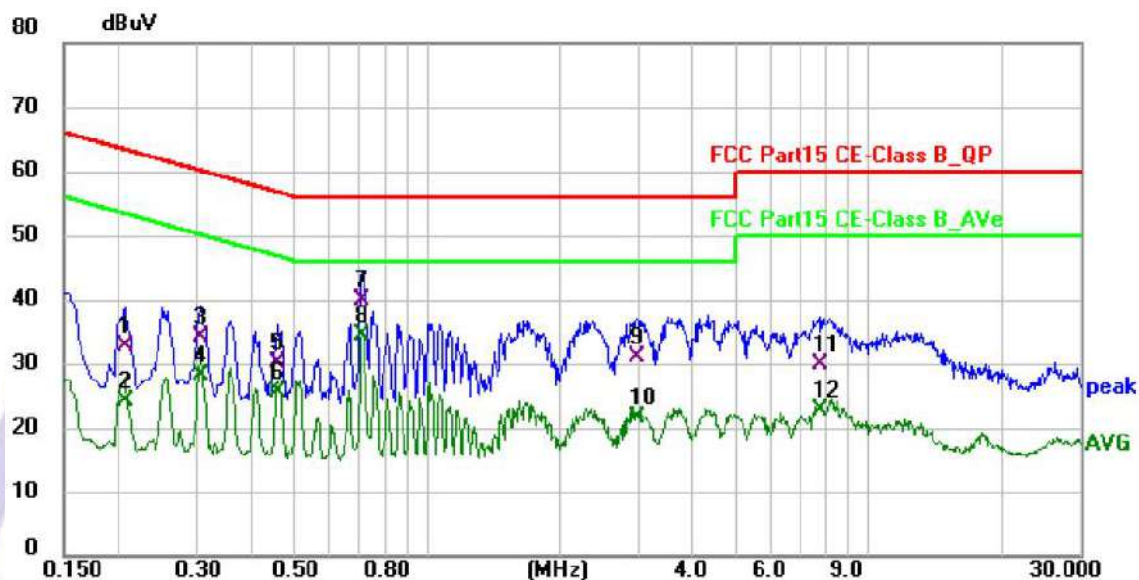
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2066	13.33	19.52	32.85	63.34	-30.49	QP
2	0.2066	4.55	19.52	24.07	53.34	-29.27	AVG
3	0.3050	14.65	19.54	34.19	60.11	-25.92	QP
4	0.3050	8.67	19.54	28.21	50.11	-21.90	AVG
5	0.4603	10.80	19.48	30.28	56.69	-26.41	QP
6	0.4603	6.17	19.48	25.65	46.69	-21.04	AVG
7	0.7149	20.41	19.50	39.91	56.00	-16.09	QP
8 *	0.7149	14.83	19.50	34.33	46.00	-11.67	AVG
9	2.9723	11.58	19.53	31.11	56.00	-24.89	QP
10	2.9723	2.02	19.53	21.55	46.00	-24.45	AVG
11	7.7462	10.27	19.53	29.80	60.00	-30.20	QP
12	7.7462	3.11	19.53	22.64	50.00	-27.36	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 3)



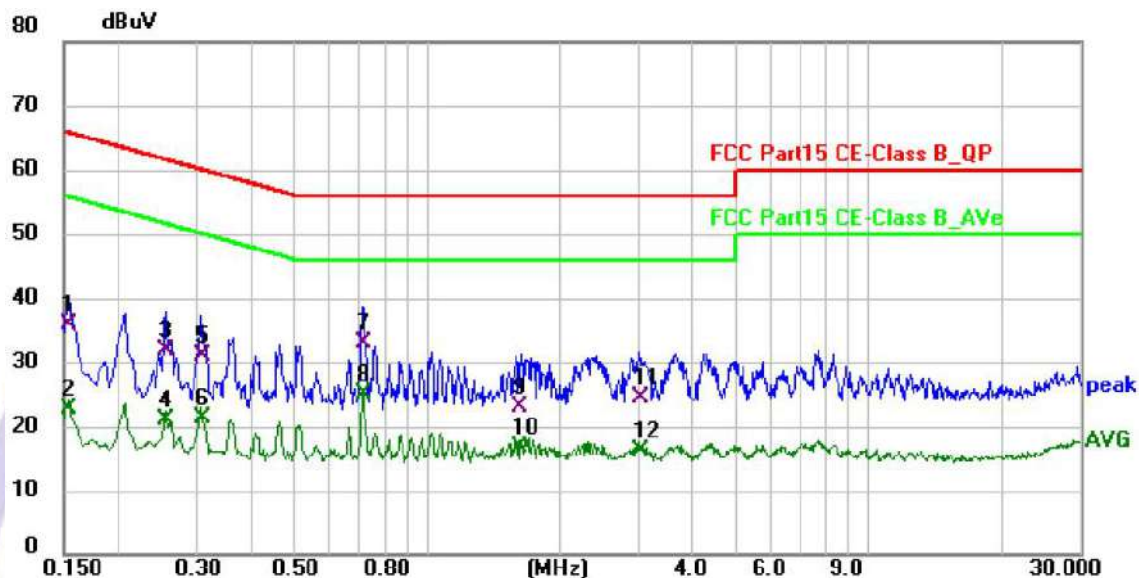
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1538	16.20	19.54	35.74	65.79	-30.05	QP
2	0.1538	3.23	19.54	22.77	55.79	-33.02	AVG
3	0.2545	12.18	19.55	31.73	61.61	-29.88	QP
4	0.2545	1.32	19.55	20.87	51.61	-30.74	AVG
5	0.3082	11.71	19.39	31.10	60.02	-28.92	QP
6	0.3082	1.90	19.39	21.29	50.02	-28.73	AVG
7	0.7126	13.63	19.45	33.08	56.00	-22.92	QP
8 *	0.7126	5.57	19.45	25.02	46.00	-20.98	AVG
9	1.6267	3.47	19.41	22.88	56.00	-33.12	QP
10	1.6267	-2.56	19.41	16.85	46.00	-29.15	AVG
11	3.0211	5.01	19.36	24.37	56.00	-31.63	QP
12	3.0211	-3.18	19.36	16.18	46.00	-29.82	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 3)



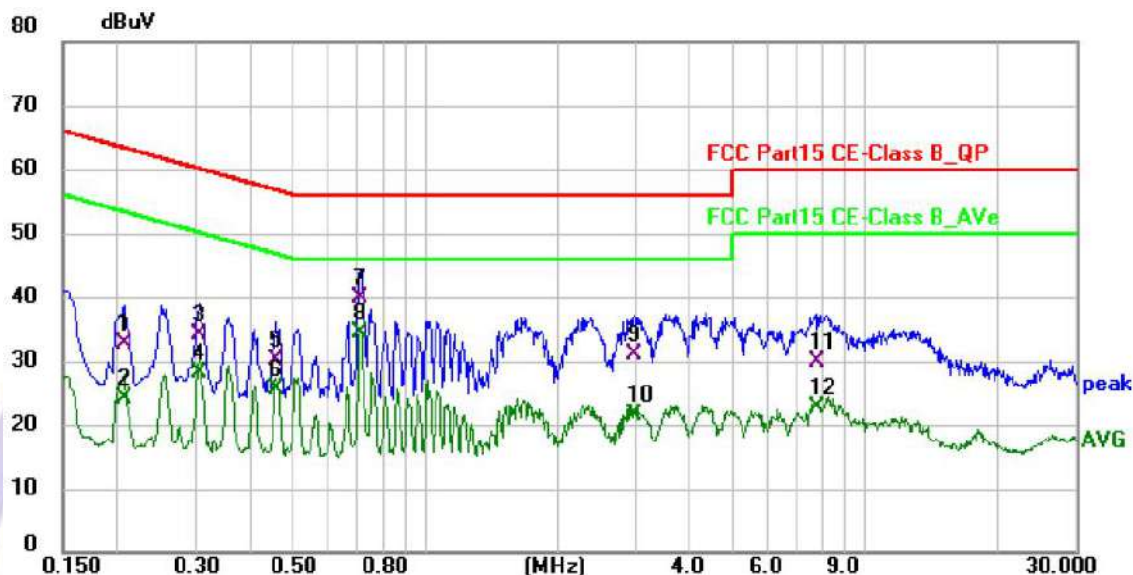
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2066	13.33	19.52	32.85	63.34	-30.49	QP
2	0.2066	4.55	19.52	24.07	53.34	-29.27	AVG
3	0.3050	14.65	19.54	34.19	60.11	-25.92	QP
4	0.3050	8.67	19.54	28.21	50.11	-21.90	AVG
5	0.4603	10.80	19.48	30.28	56.69	-26.41	QP
6	0.4603	6.17	19.48	25.65	46.69	-21.04	AVG
7	0.7149	20.41	19.50	39.91	56.00	-16.09	QP
8 *	0.7149	14.83	19.50	34.33	46.00	-11.67	AVG
9	2.9723	11.58	19.53	31.11	56.00	-24.89	QP
10	2.9723	2.02	19.53	21.55	46.00	-24.45	AVG
11	7.7462	10.27	19.53	29.80	60.00	-30.20	QP
12	7.7462	3.11	19.53	22.64	50.00	-27.36	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 4)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1538	16.20	19.54	35.74	65.79	-30.05	QP
2	0.1538	3.23	19.54	22.77	55.79	-33.02	AVG
3	0.2545	12.18	19.55	31.73	61.61	-29.88	QP
4	0.2545	1.32	19.55	20.87	51.61	-30.74	AVG
5	0.3082	11.71	19.39	31.10	60.02	-28.92	QP
6	0.3082	1.90	19.39	21.29	50.02	-28.73	AVG
7	0.7126	13.63	19.45	33.08	56.00	-22.92	QP
8 *	0.7126	5.57	19.45	25.02	46.00	-20.98	AVG
9	1.6267	3.47	19.41	22.88	56.00	-33.12	QP
10	1.6267	-2.56	19.41	16.85	46.00	-29.15	AVG
11	3.0211	5.01	19.36	24.37	56.00	-31.63	QP
12	3.0211	-3.18	19.36	16.18	46.00	-29.82	AVG

Temperature:	25.5 °C	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Remark:	Charging(Battery 4)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2066	13.33	19.52	32.85	63.34	-30.49	QP
2	0.2066	4.55	19.52	24.07	53.34	-29.27	AVG
3	0.3050	14.65	19.54	34.19	60.11	-25.92	QP
4	0.3050	8.67	19.54	28.21	50.11	-21.90	AVG
5	0.4603	10.80	19.48	30.28	56.69	-26.41	QP
6	0.4603	6.17	19.48	25.65	46.69	-21.04	AVG
7	0.7149	20.41	19.50	39.91	56.00	-16.09	QP
8 *	0.7149	14.83	19.50	34.33	46.00	-11.67	AVG
9	2.9723	11.58	19.53	31.11	56.00	-24.89	QP
10	2.9723	2.02	19.53	21.55	46.00	-24.45	AVG
11	7.7462	10.27	19.53	29.80	60.00	-30.20	QP
12	7.7462	3.11	19.53	22.64	50.00	-27.36	AVG

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

7 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.407

Test Method : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result : PASS

Measurement Distance : 3m

Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾

7.1 EUT Operation

Operating Environment :

Temperature : 24.5 °C

Humidity : 55.5% RH

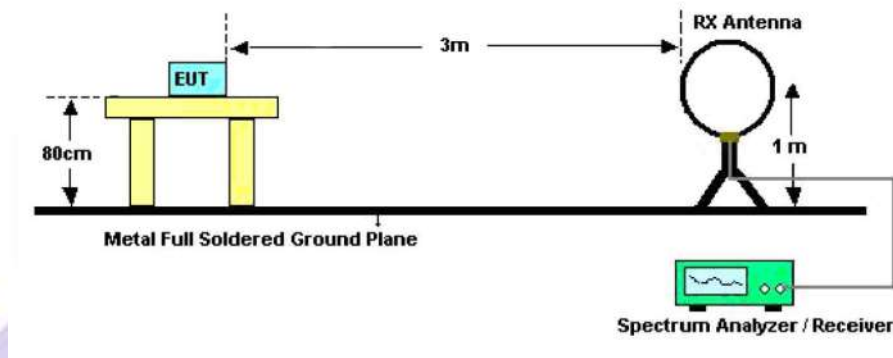
Atmospheric Pressure : 101.3kPa

Test Voltage : AC 120V60Hz

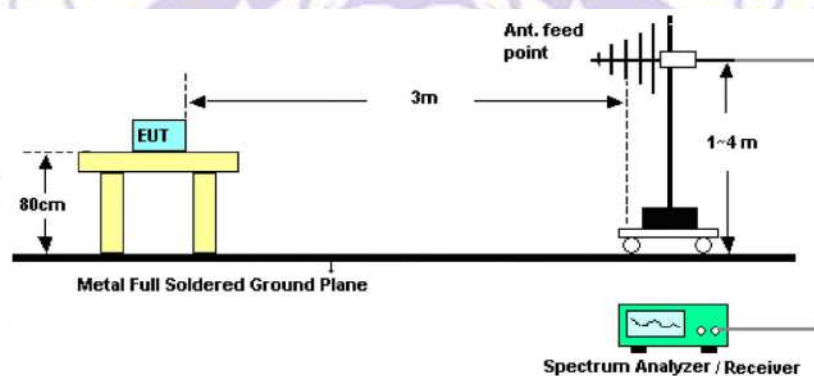
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

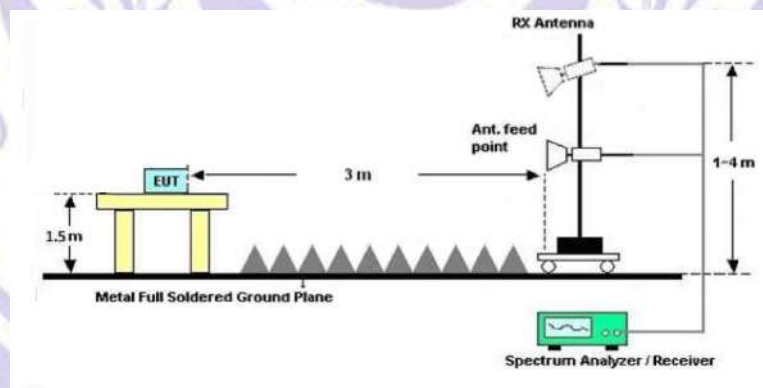
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) 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.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
7. Test Procedure of measurement (For Above 1GHz):
 - 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
 - 2) Change the antenna polarization and repeat 1) with vertical polarization.
 - 3) Make a hardcopy of the spectrum.
 - 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
 - 5) Change the analyser mode to Clear/ Write and found the cone of emission.
 - 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
 - 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
 - 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

7.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
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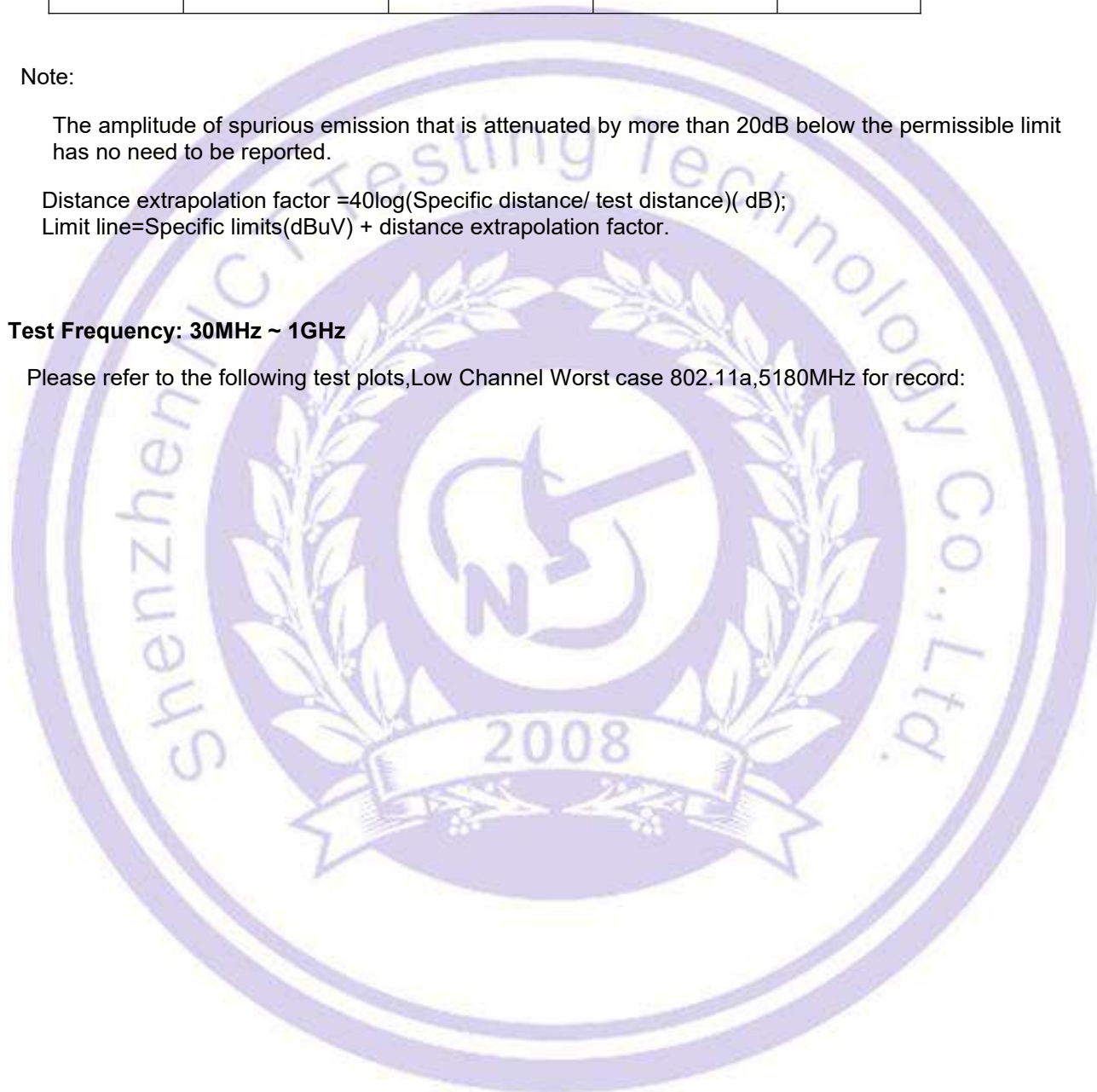
Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);
Limit line = Specific limits (dBuV) + distance extrapolation factor.

Test Frequency: 30MHz ~ 1GHz

Please refer to the following test plots, Low Channel Worst case 802.11a, 5180MHz for record:



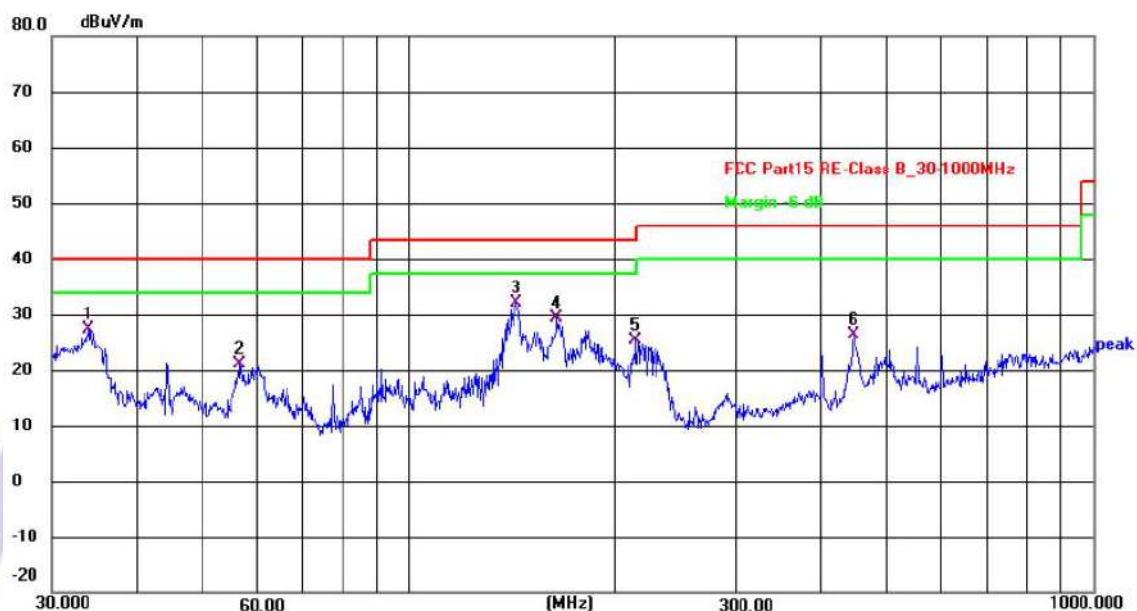
Temperature:	23.5 C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V(Battery 1)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.8427	35.86	-16.37	19.49	40.00	-20.51	QP
2	143.8295	49.71	-19.38	30.33	43.50	-13.17	QP
3	180.0164	49.40	-17.47	31.93	43.50	-11.57	QP
4	216.0240	49.71	-15.78	33.93	46.00	-12.07	QP
5	455.9058	34.87	-10.23	24.64	46.00	-21.36	QP
6	552.8832	38.84	-8.88	29.96	46.00	-16.04	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Temperature:	23.5 °C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V(Battery 1)		



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	33.9172	43.61	-16.34	27.27	40.00	-12.73	QP
2	56.5930	35.76	-14.74	21.02	40.00	-18.98	QP
3	143.3260	51.59	-19.39	32.20	43.50	-11.30	QP
4	164.3301	47.90	-18.64	29.26	43.50	-14.24	QP
5	214.5141	41.20	-15.85	25.35	43.50	-18.15	QP
6	446.4140	36.82	-10.45	26.37	46.00	-19.63	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Temperature:	23.5 C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V(Battery 2)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.8427	37.23	-16.37	20.86	40.00	-19.14	QP
2	148.9624	48.65	-19.33	29.32	43.50	-14.18	QP
3	191.7450	49.41	-16.79	32.62	43.50	-10.88	QP
4	222.1697	45.98	-15.56	30.42	46.00	-15.58	QP
5	447.9821	39.44	-10.37	29.07	46.00	-16.93	QP
6	552.8831	34.62	-8.88	25.74	46.00	-20.26	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

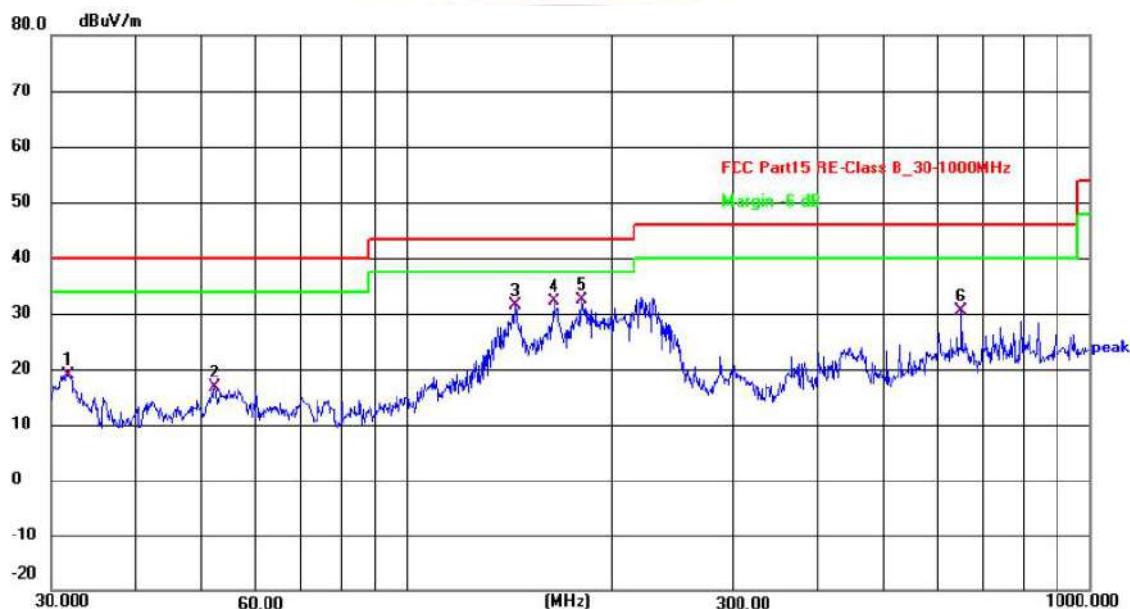
Temperature:	23.5 °C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V(Battery 2)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.2760	38.19	-16.32	21.87	40.00	-18.13	QP
2	66.2660	39.02	-16.95	22.07	40.00	-17.93	QP
3	146.8874	48.92	-19.35	29.57	43.50	-13.93	QP
4	173.8135	45.43	-18.23	27.20	43.50	-16.30	QP
5	239.9873	43.54	-15.08	28.46	46.00	-17.54	QP
6	504.7062	35.25	-9.55	25.70	46.00	-20.30	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

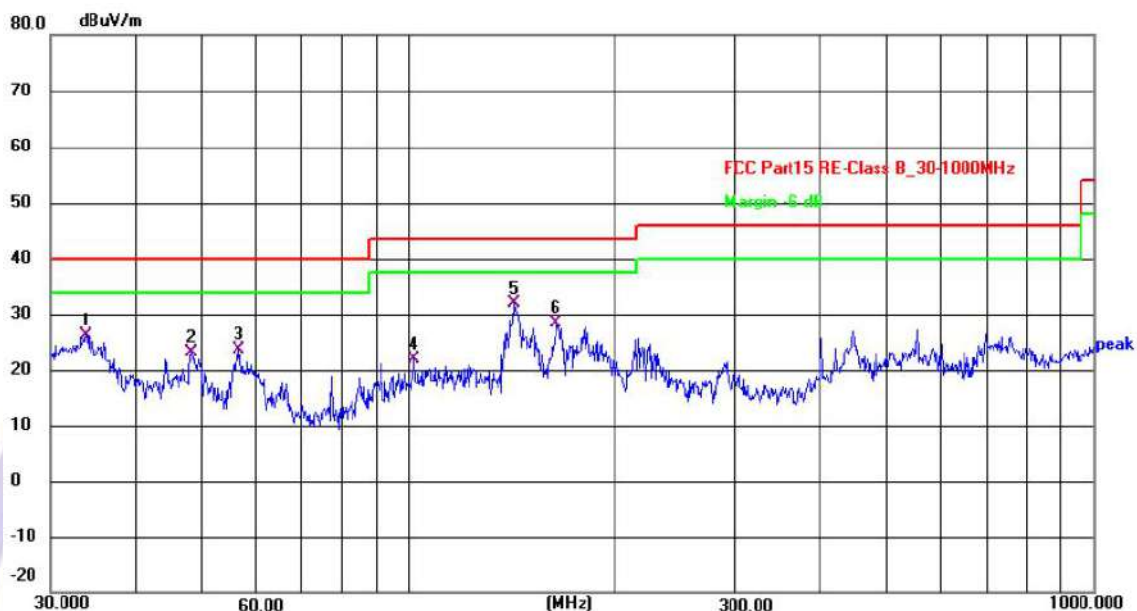
Temperature:	23.5 C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.6V(Battery 3)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.8427	35.36	-16.37	18.99	40.00	-21.01	QP
2	52.2077	31.11	-14.40	16.71	40.00	-23.29	QP
3	143.8292	50.71	-19.38	31.33	43.50	-12.17	QP
4	163.7550	50.84	-18.64	32.20	43.50	-11.30	QP
5	180.0164	49.90	-17.47	32.43	43.50	-11.07	QP
6	649.6594	37.79	-7.35	30.44	46.00	-15.56	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Temperature:	23.5 °C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.6V(Battery 3)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.7986	42.45	-16.33	26.12	40.00	-13.88	QP
2	48.1625	37.39	-14.26	23.13	40.00	-16.87	QP
3	56.5930	38.26	-14.74	23.52	40.00	-16.48	QP
4	102.0013	37.68	-15.85	21.83	43.50	-21.67	QP
5	142.3240	51.29	-19.41	31.88	43.50	-11.62	QP
6	164.3300	46.90	-18.64	28.26	43.50	-15.24	QP

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Temperature:	23.5 C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.6V(Battery 4)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.0950	38.16	-16.34	21.82	40.00	-18.18	QP
2	66.2660	37.50	-16.95	20.55	40.00	-19.45	QP
3	150.0107	48.13	-19.32	28.81	43.50	-14.69	QP
4	187.0954	50.23	-17.04	33.19	43.50	-10.31	QP
5	213.7632	46.48	-15.88	30.60	43.50	-12.90	QP
6	437.1200	41.76	-10.87	30.89	46.00	-15.11	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Temperature:	23.5 °C	Relative Humidity:	51.1%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.6V(Battery 4)		



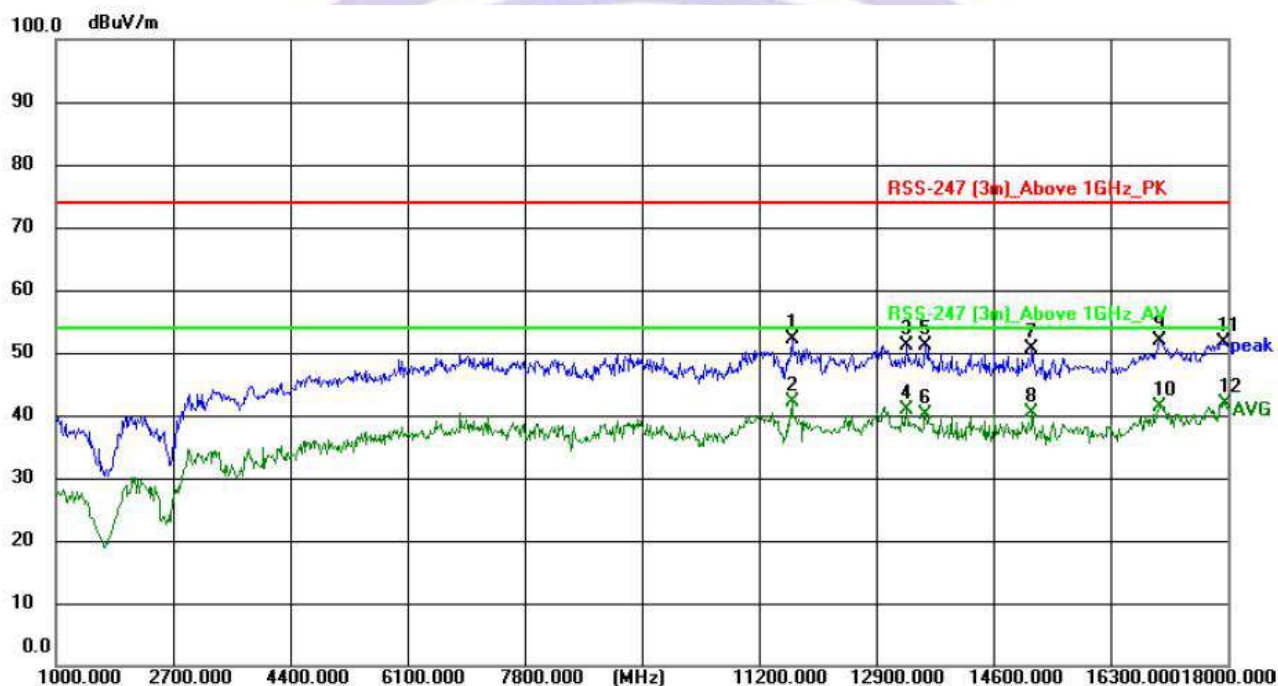
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	66.2660	43.02	-16.95	26.07	40.00	-13.93	QP
2	122.8340	43.53	-17.81	25.72	43.50	-17.78	QP
3	137.4200	51.75	-19.31	32.44	43.50	-11.06	QP
4	179.3863	44.45	-17.55	26.90	43.50	-16.60	QP
5	239.9873	44.04	-15.08	28.96	46.00	-17.04	QP
6	454.3100	38.08	-10.25	27.83	46.00	-18.17	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Test Frequency: From 1GHz to 18GHz

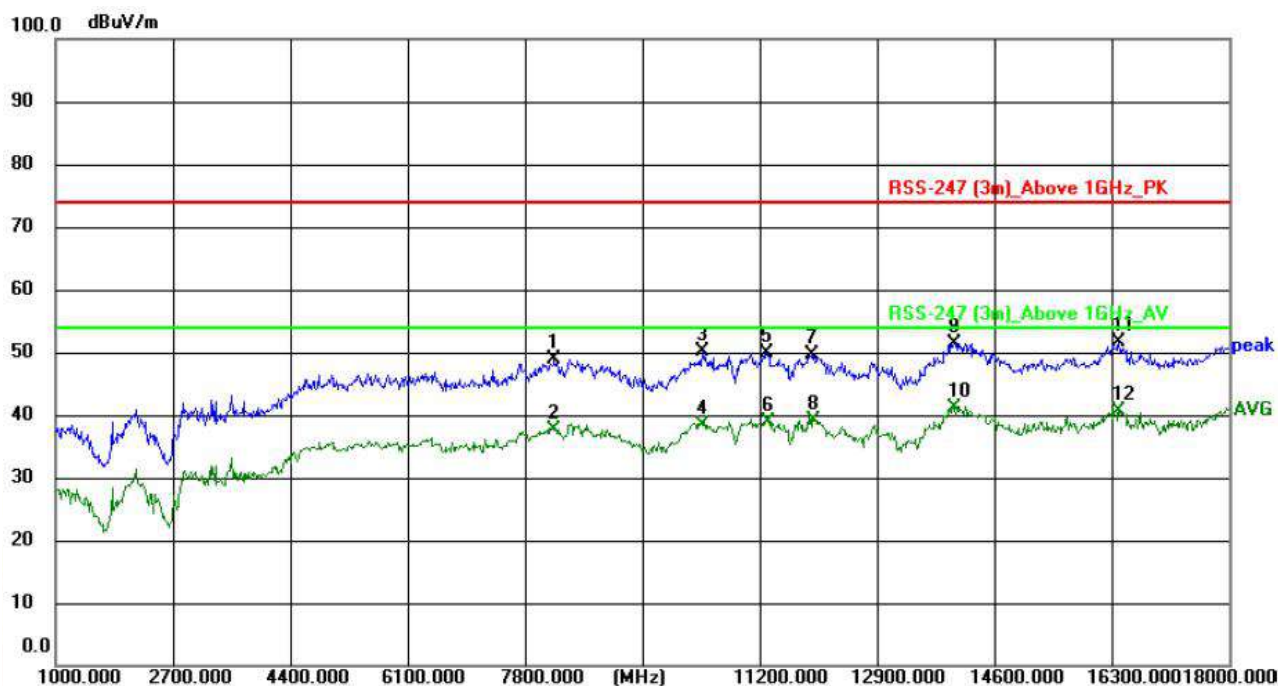
All the modes have been tested, and only the data of the worst mode 802.11 a is presented.

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5180MHz)



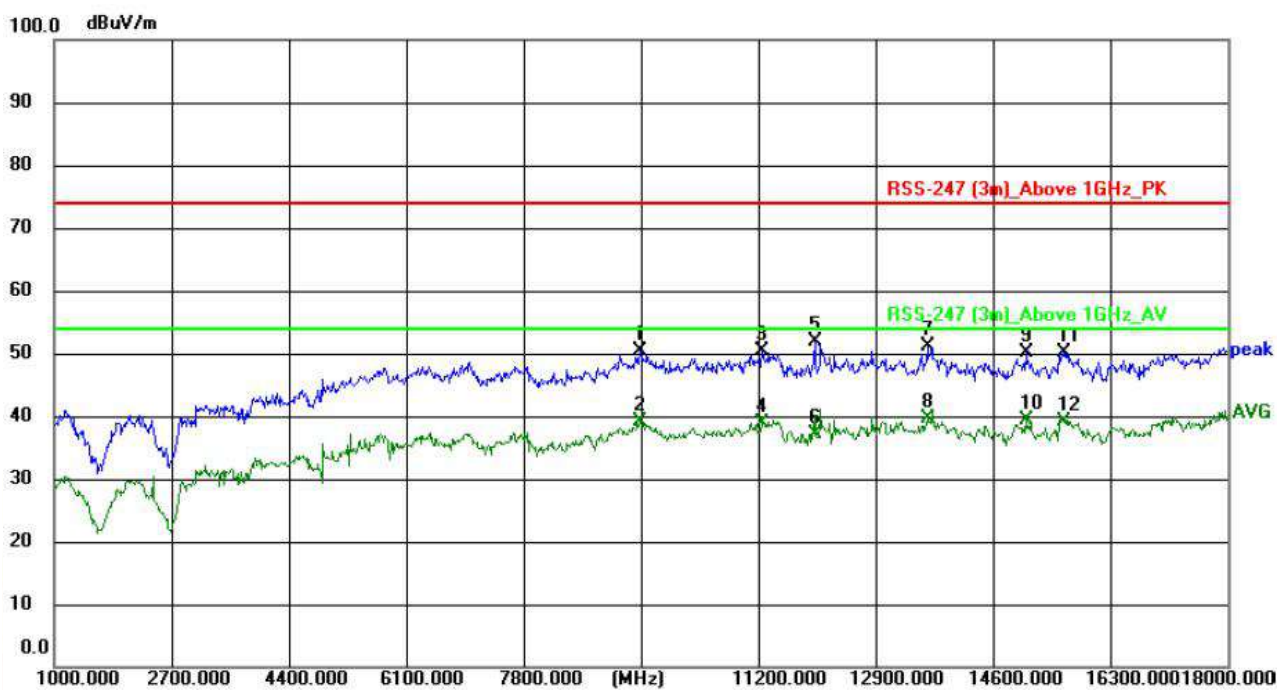
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11676.000	35.76	16.45	52.21	74.00	-21.79	peak
2	11676.000	25.74	16.45	42.19	54.00	-11.81	AVG
3	13342.000	31.97	19.22	51.19	74.00	-22.81	peak
4	13342.000	21.70	19.22	40.92	54.00	-13.08	AVG
5	13614.000	32.01	19.16	51.17	74.00	-22.83	peak
6	13614.000	20.87	19.16	40.03	54.00	-13.97	AVG
7	15161.000	31.98	18.73	50.71	74.00	-23.29	peak
8	15161.000	21.66	18.73	40.39	54.00	-13.61	AVG
9	17014.000	32.97	18.97	51.94	74.00	-22.06	peak
10	17014.000	22.36	18.97	41.33	54.00	-12.67	AVG
11	17949.000	27.70	23.81	51.51	74.00	-22.49	peak
12	17966.000	18.08	23.89	41.97	54.00	-12.03	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5180MHz)



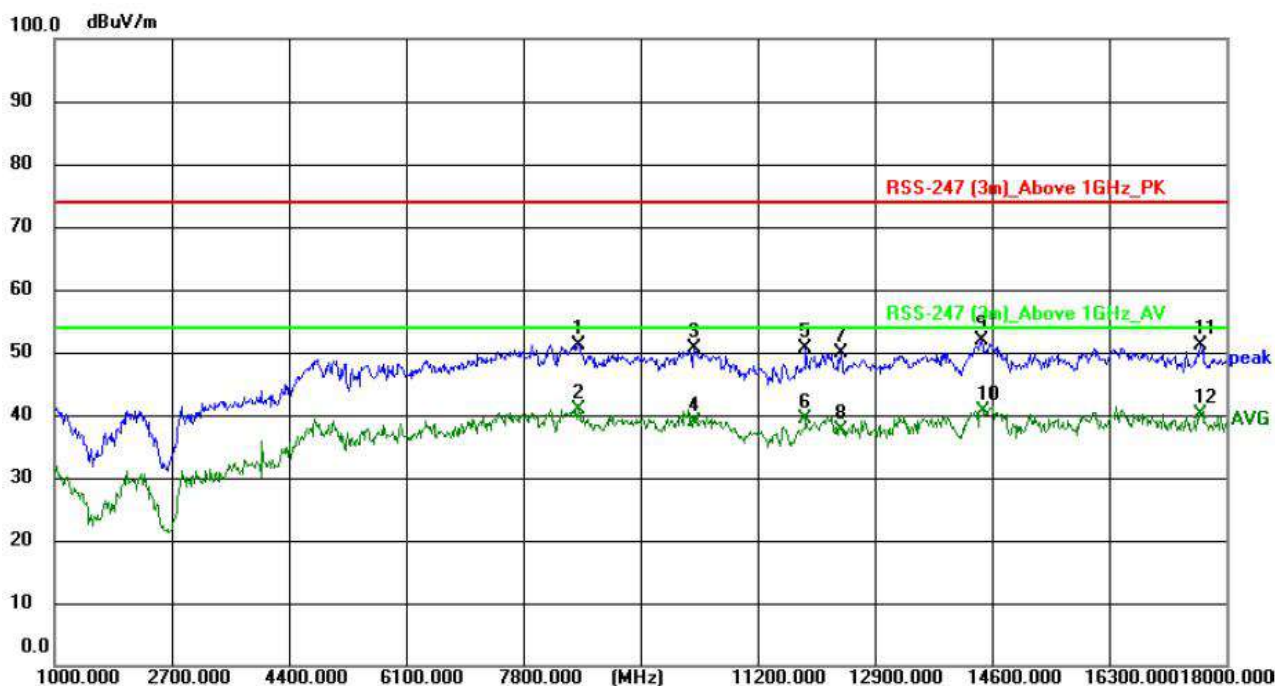
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	8225.000	36.69	12.31	49.00	74.00	-25.00	peak
2	8225.000	25.40	12.31	37.71	54.00	-16.29	AVG
3	10367.000	35.23	14.81	50.04	74.00	-23.96	peak
4	10367.000	23.52	14.81	38.33	54.00	-15.67	AVG
5	11302.000	33.50	16.26	49.76	74.00	-24.24	peak
6	11319.000	22.72	16.27	38.99	54.00	-15.01	AVG
7	11965.000	32.65	16.92	49.57	74.00	-24.43	peak
8	11982.000	22.16	16.93	39.09	54.00	-14.91	AVG
9	14022.000	32.39	19.07	51.46	74.00	-22.54	peak
10	14022.000	21.94	19.07	41.01	54.00	-12.99	AVG
11	16402.000	33.74	17.87	51.61	74.00	-22.39	peak
12	16402.000	22.77	17.87	40.64	54.00	-13.36	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5200MHz)



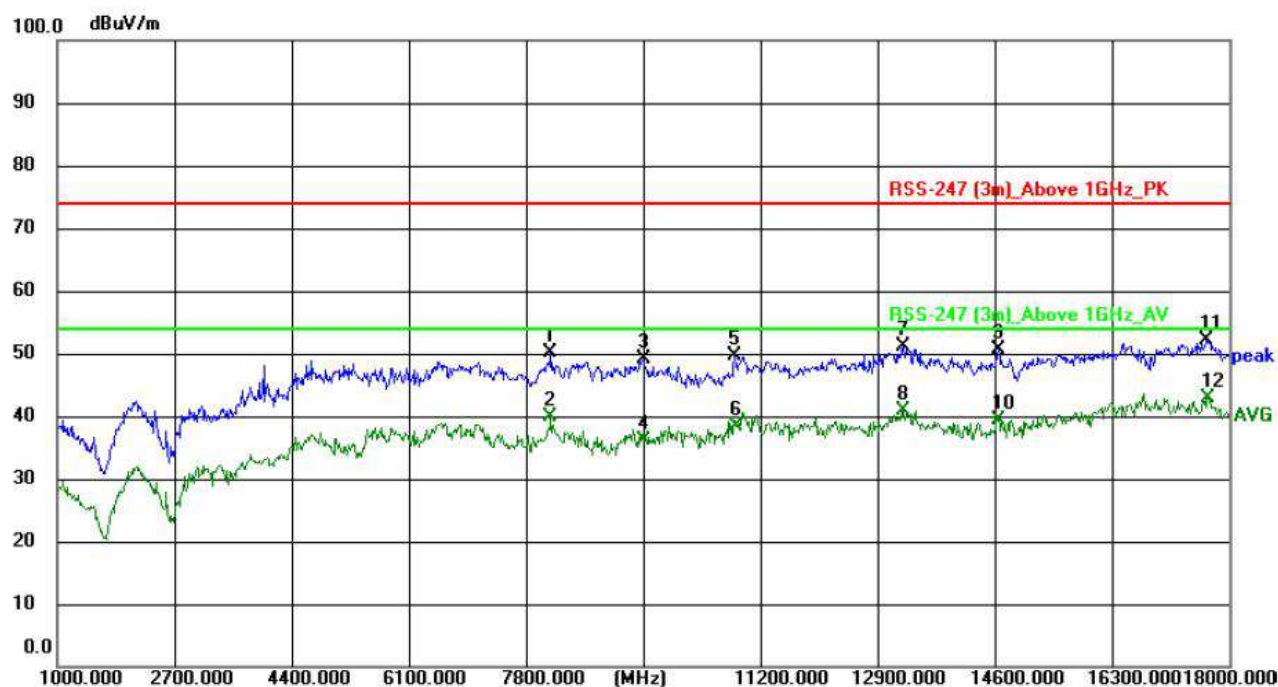
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	9483.000	36.80	13.58	50.38	74.00	-23.62	peak
2	9483.000	25.44	13.58	39.02	54.00	-14.98	AVG
3	11251.000	34.35	16.14	50.49	74.00	-23.51	peak
4	11251.000	22.83	16.14	38.97	54.00	-15.03	AVG
5	12016.000	34.78	16.98	51.76	74.00	-22.24	peak
6	12033.000	20.12	17.01	37.13	54.00	-16.87	AVG
7	13648.000	31.83	19.20	51.03	74.00	-22.97	peak
8	13665.000	20.36	19.20	39.56	54.00	-14.44	AVG
9	15076.000	31.17	18.91	50.08	74.00	-23.92	peak
10	15076.000	20.54	18.91	39.45	54.00	-14.55	AVG
11	15637.000	32.29	17.76	50.05	74.00	-23.95	peak
12	15637.000	21.48	17.76	39.24	54.00	-14.76	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5200MHz)



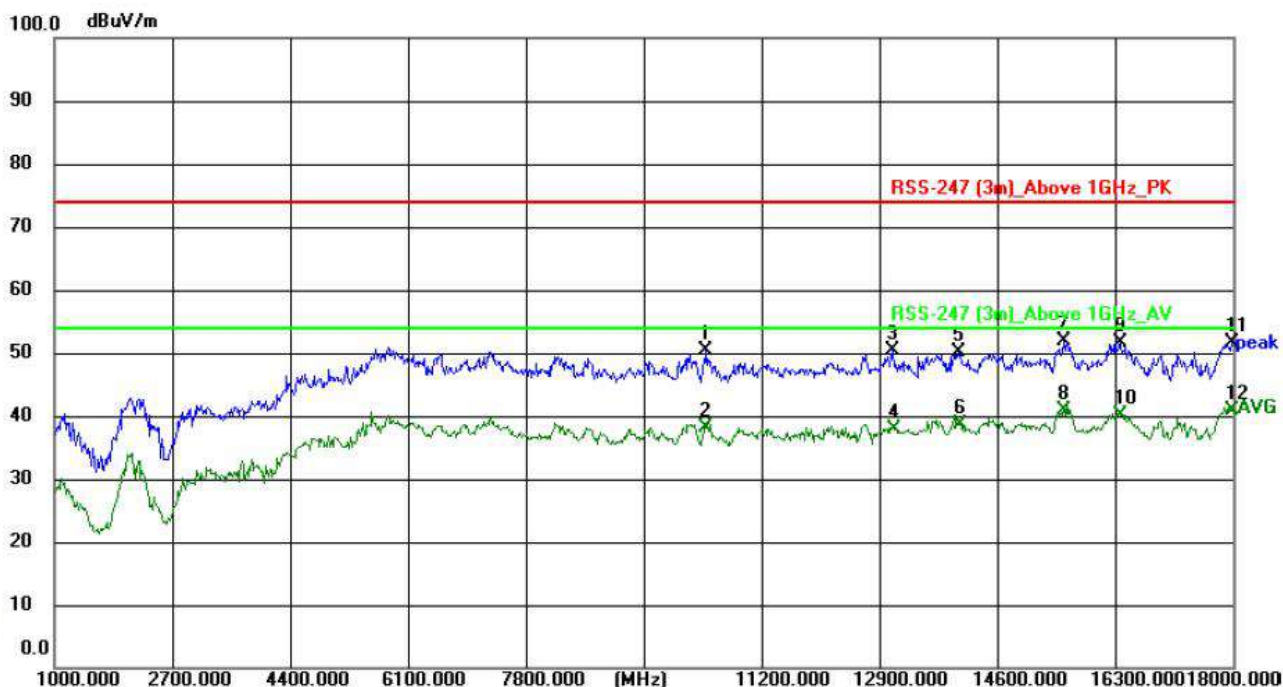
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	8599.000	38.50	12.75	51.25	74.00	-22.75	peak
2	8599.000	28.12	12.75	40.87	54.00	-13.13	AVG
3	10282.000	35.95	14.62	50.57	74.00	-23.43	peak
4	10282.000	24.32	14.62	38.94	54.00	-15.06	AVG
5	11897.000	33.79	16.89	50.68	74.00	-23.32	peak
6	11897.000	22.45	16.89	39.34	54.00	-14.66	AVG
7	12407.000	31.91	17.86	49.77	74.00	-24.23	peak
8	12407.000	19.65	17.86	37.51	54.00	-16.49	AVG
9	14447.000	32.87	18.93	51.80	74.00	-22.20	peak
10	14464.000	21.76	18.93	40.69	54.00	-13.31	AVG
11	17626.000	28.78	22.26	51.04	74.00	-22.96	peak
12	17626.000	17.76	22.26	40.02	54.00	-13.98	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5240MHz)



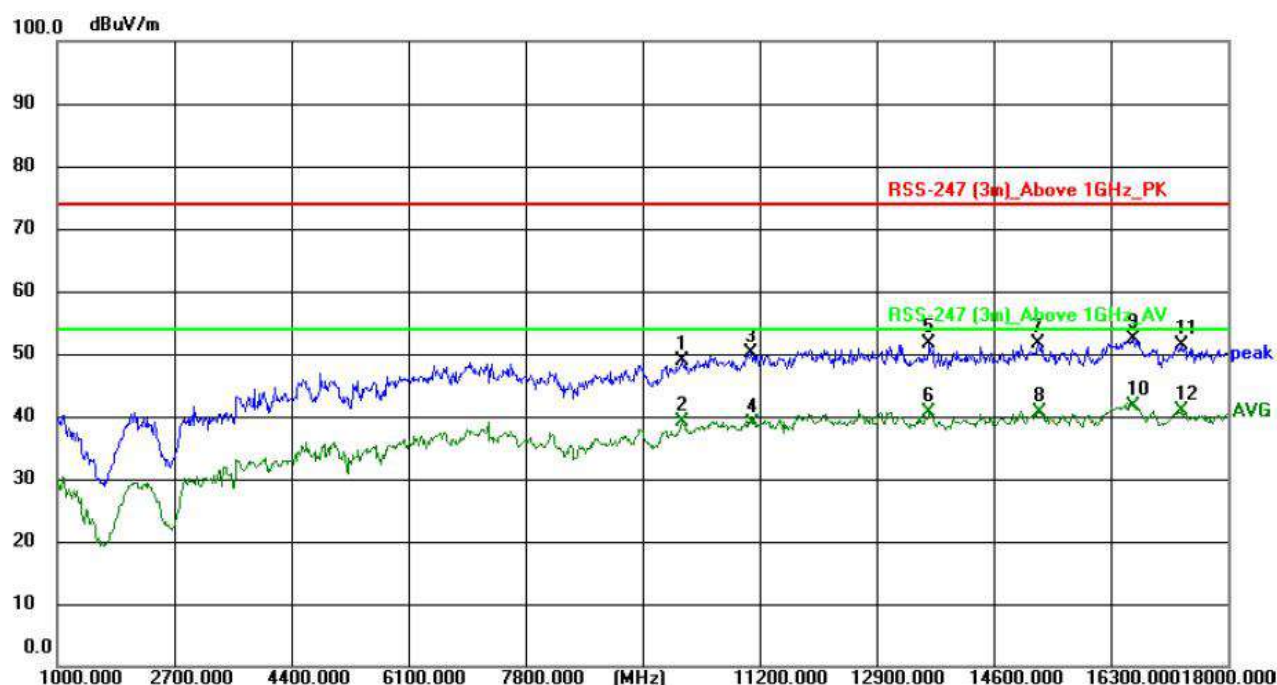
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	8157.000	37.67	12.45	50.12	74.00	-23.88	peak
2	8157.000	27.37	12.45	39.82	54.00	-14.18	AVG
3	9500.000	35.34	13.67	49.01	74.00	-24.99	peak
4	9517.000	22.39	13.72	36.11	54.00	-17.89	AVG
5	10826.000	34.45	15.17	49.62	74.00	-24.38	peak
6	10843.000	23.21	15.21	38.42	54.00	-15.58	AVG
7	13274.000	31.93	19.19	51.12	74.00	-22.88	peak
8	13274.000	21.75	19.19	40.94	54.00	-13.06	AVG
9	14651.000	31.84	18.89	50.73	74.00	-23.27	peak
10	14651.000	20.54	18.89	39.43	54.00	-14.57	AVG
11	17677.000	29.62	22.55	52.17	74.00	-21.83	peak
12	17694.000	20.30	22.65	42.95	54.00	-11.05	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5240MHz)



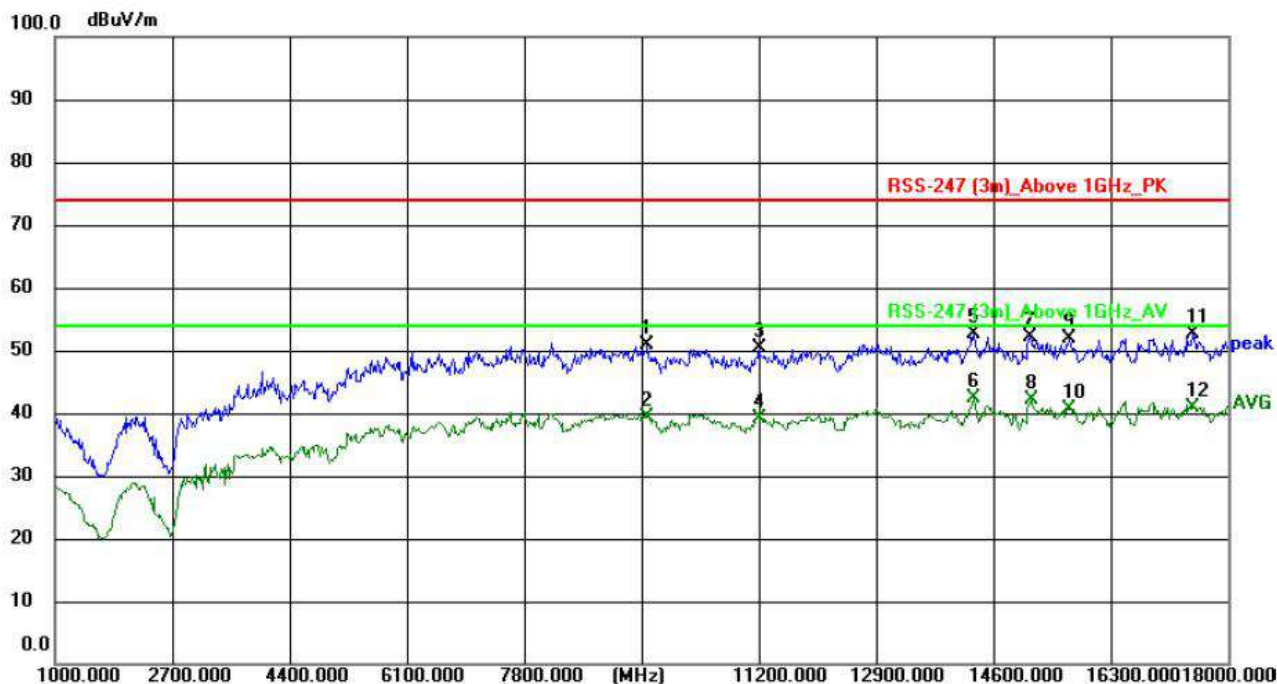
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10401.000	35.42	14.90	50.32	74.00	-23.68	peak
2	10401.000	23.16	14.90	38.06	54.00	-15.94	AVG
3	13087.000	30.98	19.29	50.27	74.00	-23.73	peak
4	13104.000	18.70	19.30	38.00	54.00	-16.00	AVG
5	14039.000	31.12	19.06	50.18	74.00	-23.82	peak
6	14056.000	19.55	19.03	38.58	54.00	-15.42	AVG
7	15552.000	33.86	18.01	51.87	74.00	-22.13	peak
8	15569.000	22.97	17.97	40.94	54.00	-13.06	AVG
9	16368.000	33.89	17.80	51.69	74.00	-22.31	peak
10	16385.000	22.36	17.83	40.19	54.00	-13.81	AVG
11	17983.000	27.66	23.99	51.65	74.00	-22.35	peak
12	17983.000	16.89	23.99	40.88	54.00	-13.12	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5745MHz)



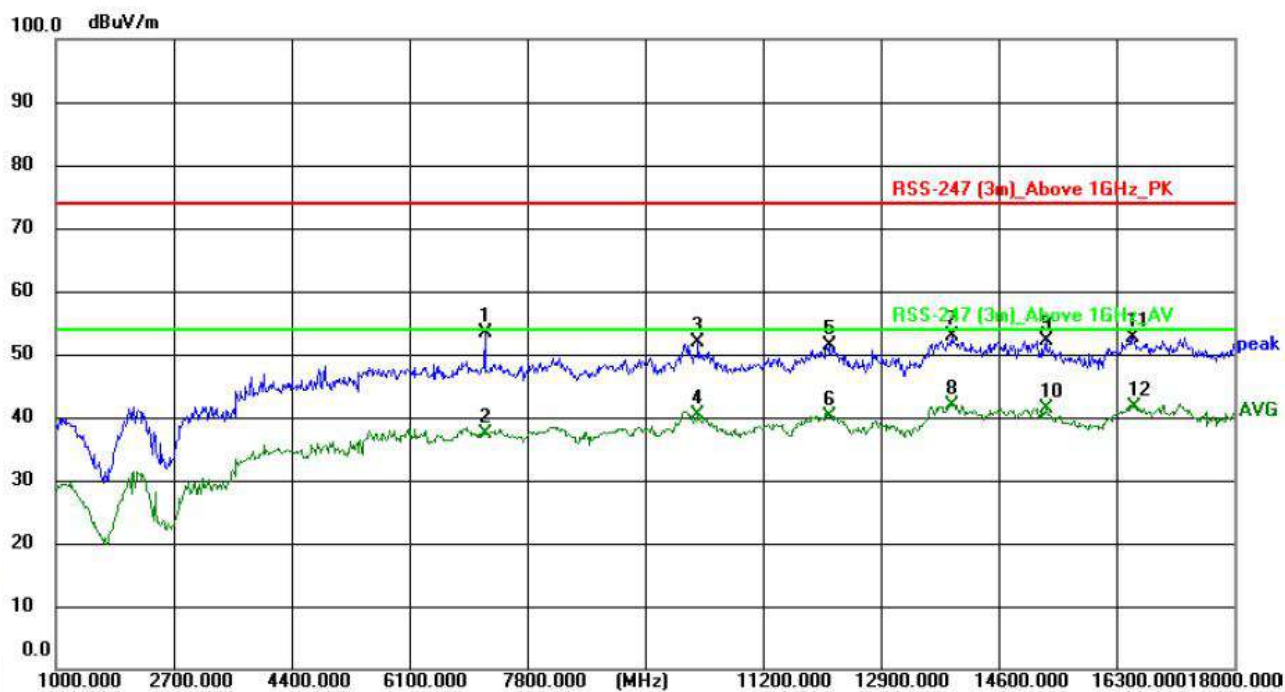
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10078.000	34.54	14.42	48.96	74.00	-25.04	peak
2	10078.000	24.81	14.42	39.23	54.00	-14.77	AVG
3	11081.000	34.41	15.60	50.01	74.00	-23.99	peak
4	11098.000	23.32	15.65	38.97	54.00	-15.03	AVG
5	13665.000	32.46	19.20	51.66	74.00	-22.34	peak
6	13665.000	21.40	19.20	40.60	54.00	-13.40	AVG
7	15246.000	33.07	18.56	51.63	74.00	-22.37	peak
8	15263.000	22.12	18.55	40.67	54.00	-13.33	AVG
9	16623.000	34.07	18.30	52.37	74.00	-21.63	peak
10	16623.000	23.30	18.30	41.60	54.00	-12.40	AVG
11	17320.000	30.04	21.26	51.30	74.00	-22.70	peak
12	17320.000	19.60	21.26	40.86	54.00	-13.14	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5745MHz)



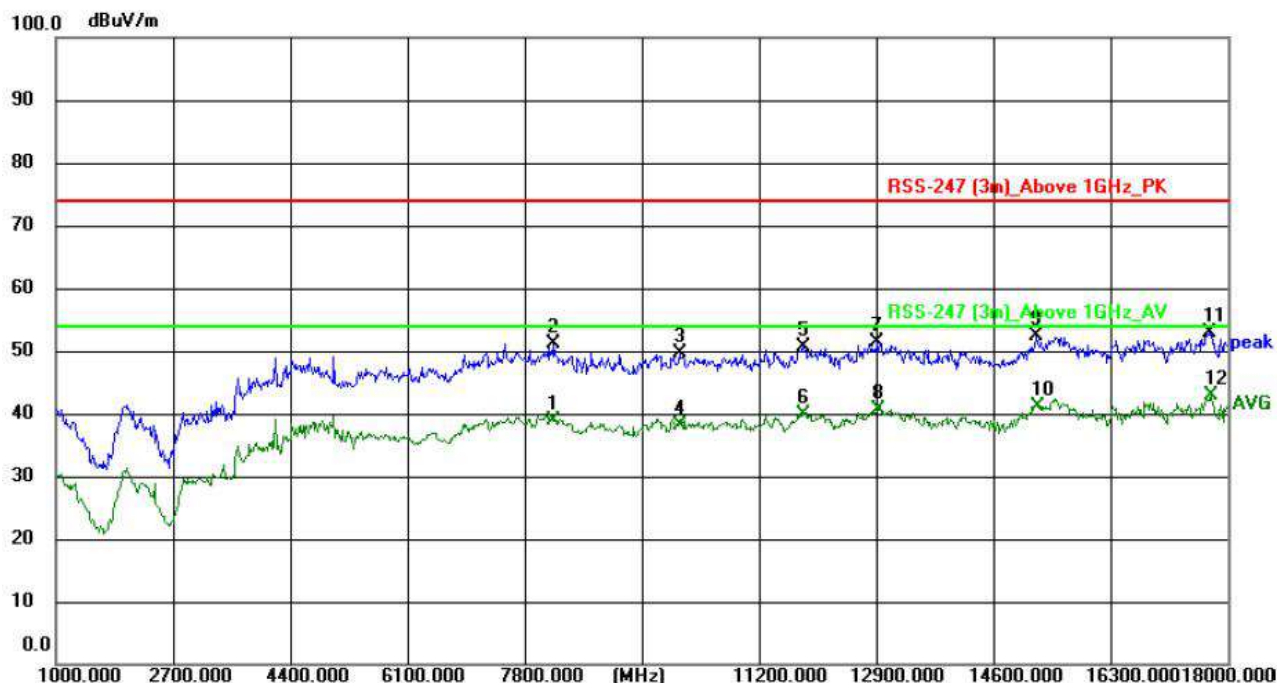
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	9585.000	36.98	13.85	50.83	74.00	-23.17	peak
2	9585.000	25.54	13.85	39.39	54.00	-14.61	AVG
3	11200.000	34.41	16.01	50.42	74.00	-23.58	peak
4	11200.000	23.11	16.01	39.12	54.00	-14.88	AVG
5	14311.000	33.63	18.97	52.60	74.00	-21.40	peak
6	14311.000	23.44	18.97	42.41	54.00	-11.59	AVG
7	15127.000	33.21	18.83	52.04	74.00	-21.96	peak
8	15144.000	23.26	18.78	42.04	54.00	-11.96	AVG
9	15705.000	34.46	17.50	51.96	74.00	-22.04	peak
10	15705.000	23.17	17.50	40.67	54.00	-13.33	AVG
11	17490.000	30.80	21.72	52.52	74.00	-21.48	peak
12	17490.000	19.20	21.72	40.92	54.00	-13.08	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5785MHz)



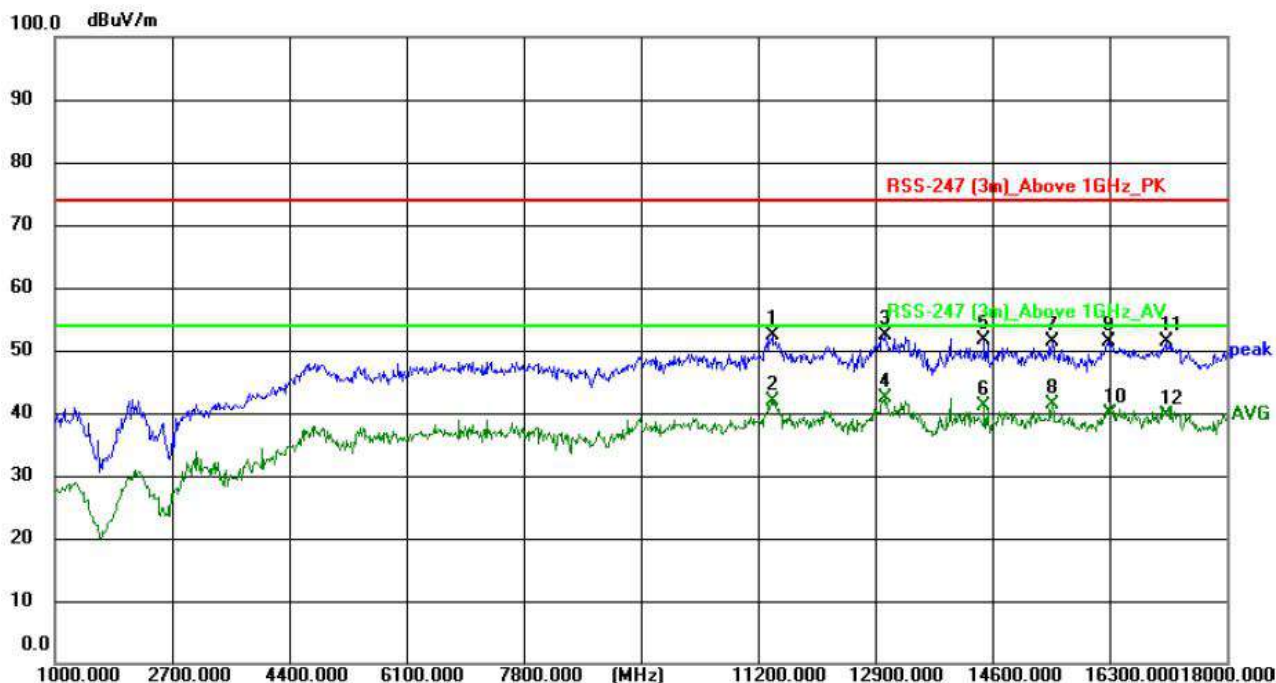
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7188.000	41.63	11.76	53.39	74.00	-20.61	peak
2	7188.000	25.69	11.76	37.45	54.00	-16.55	AVG
3	10265.000	37.20	14.59	51.79	74.00	-22.21	peak
4	10265.000	25.87	14.59	40.46	54.00	-13.54	AVG
5	12152.000	33.93	17.34	51.27	74.00	-22.73	peak
6	12152.000	22.79	17.34	40.13	54.00	-13.87	AVG
7	13920.000	33.76	19.11	52.87	74.00	-21.13	peak
8	13920.000	22.81	19.11	41.92	54.00	-12.08	AVG
9	15280.000	33.57	18.53	52.10	74.00	-21.90	peak
10	15280.000	22.94	18.53	41.47	54.00	-12.53	AVG
11	16538.000	34.46	18.17	52.63	74.00	-21.37	peak
12	16555.000	23.42	18.19	41.61	54.00	-12.39	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5785MHz)



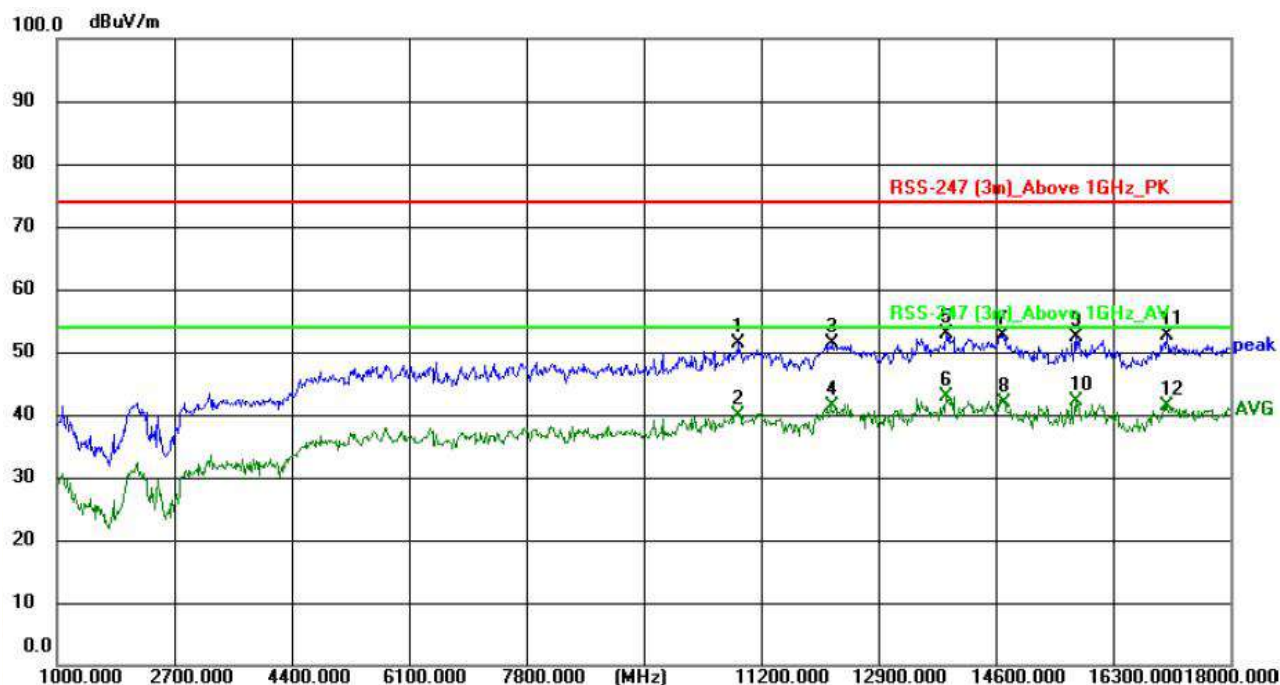
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	8208.000	26.59	12.35	38.94	54.00	-15.06	AVG
2	8225.000	38.76	12.31	51.07	74.00	-22.93	peak
3	10044.000	35.16	14.36	49.52	74.00	-24.48	peak
4	10044.000	23.87	14.36	38.23	54.00	-15.77	AVG
5	11846.000	33.68	16.92	50.60	74.00	-23.40	peak
6	11846.000	23.05	16.92	39.97	54.00	-14.03	AVG
7	12917.000	32.46	18.96	51.42	74.00	-22.58	peak
8	12934.000	21.60	19.02	40.62	54.00	-13.38	AVG
9	15229.000	33.78	18.58	52.36	74.00	-21.64	peak
10	15246.000	22.61	18.56	41.17	54.00	-12.83	AVG
11	17745.000	30.07	22.89	52.96	74.00	-21.04	peak
12	17762.000	19.92	22.98	42.90	54.00	-11.10	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11a (5825MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11404.000	36.12	16.32	52.44	74.00	-21.56	peak
2	11404.000	25.51	16.32	41.83	54.00	-12.17	AVG
3	13036.000	33.14	19.26	52.40	74.00	-21.60	peak
4	13036.000	23.18	19.26	42.44	54.00	-11.56	AVG
5	14481.000	32.66	18.94	51.60	74.00	-22.40	peak
6	14481.000	22.31	18.94	41.25	54.00	-12.75	AVG
7	15467.000	33.25	18.18	51.43	74.00	-22.57	peak
8	15467.000	23.21	18.18	41.39	54.00	-12.61	AVG
9	16283.000	33.69	17.58	51.27	74.00	-22.73	peak
10	16300.000	22.26	17.63	39.89	54.00	-14.11	AVG
11	17116.000	31.76	19.50	51.26	74.00	-22.74	peak
12	17133.000	19.97	19.73	39.70	54.00	-14.30	AVG

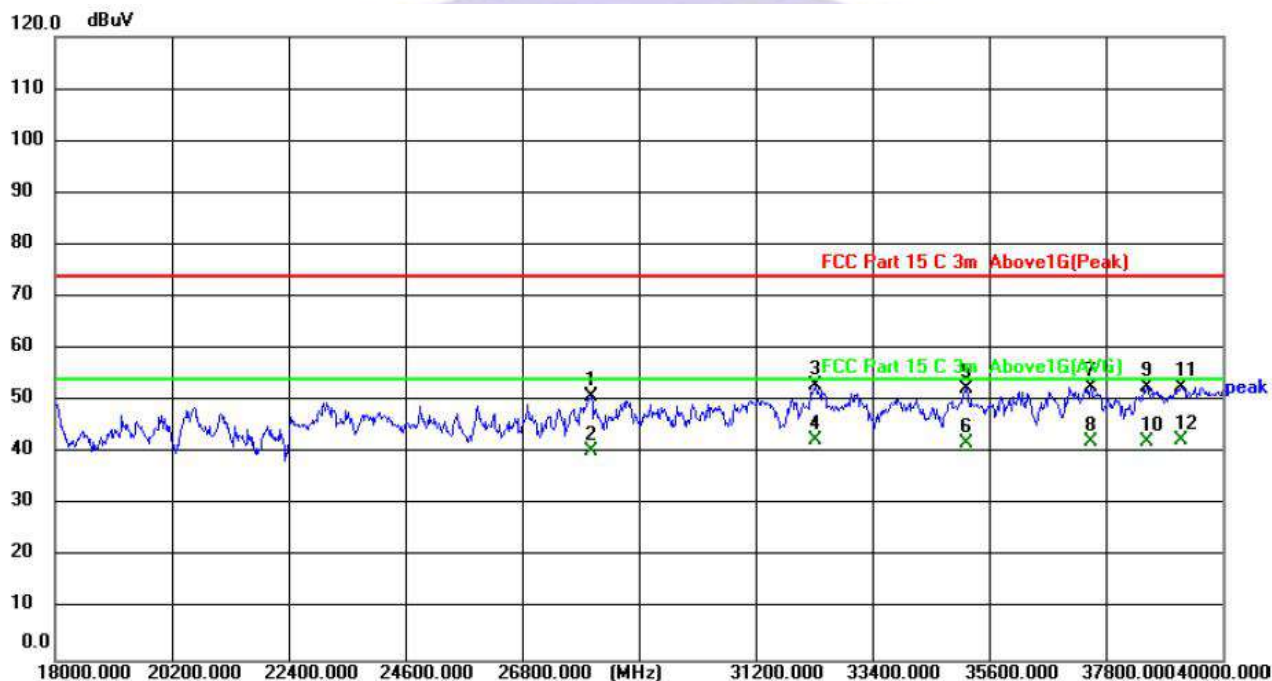
Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5825MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10860.000	36.16	15.25	51.41	74.00	-22.59	peak
2	10860.000	24.55	15.25	39.80	54.00	-14.20	AVG
3	12220.000	33.79	17.51	51.30	74.00	-22.70	peak
4	12220.000	23.77	17.51	41.28	54.00	-12.72	AVG
5	13886.000	33.66	19.13	52.79	74.00	-21.21	peak
6	13886.000	23.68	19.13	42.81	54.00	-11.19	AVG
7	14702.000	33.80	18.91	52.71	74.00	-21.29	peak
8	14719.000	22.94	18.92	41.86	54.00	-12.14	AVG
9	15756.000	35.02	17.40	52.42	74.00	-21.58	peak
10	15756.000	24.73	17.40	42.13	54.00	-11.87	AVG
11	17082.000	33.32	19.21	52.53	74.00	-21.47	peak
12	17082.000	22.14	19.21	41.35	54.00	-12.65	AVG

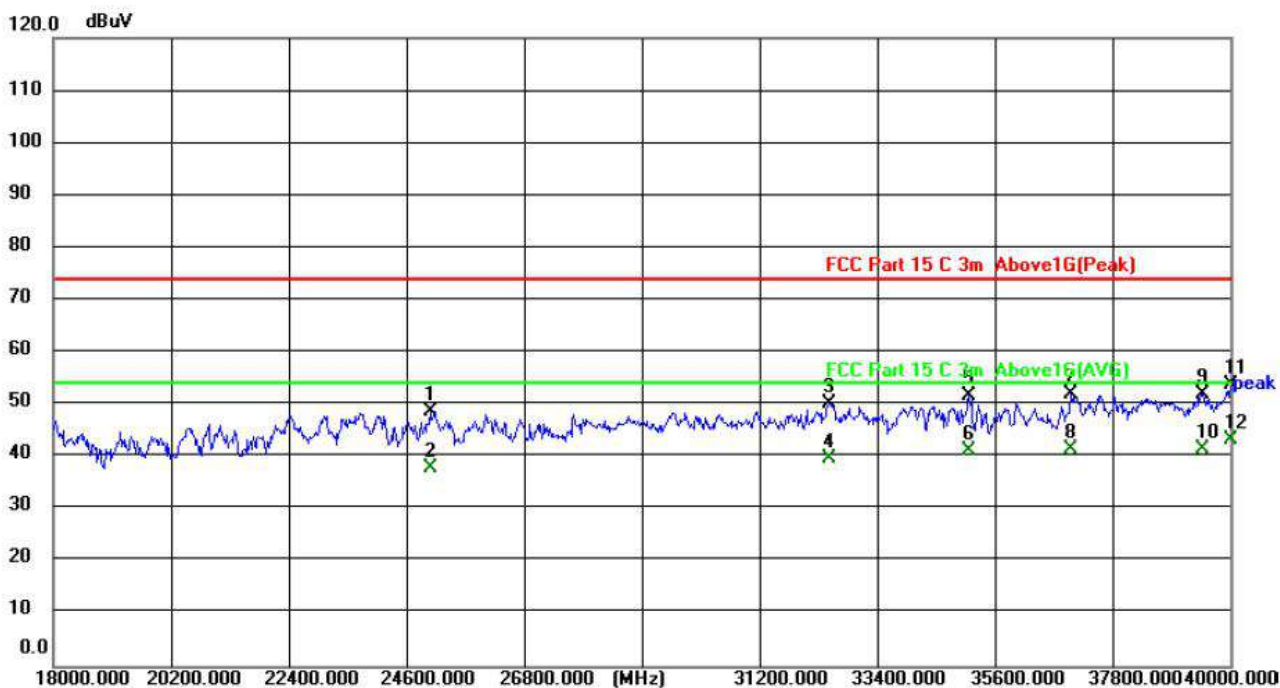
Test Frequency: From 18GHz to 40GHz

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5180MHz)



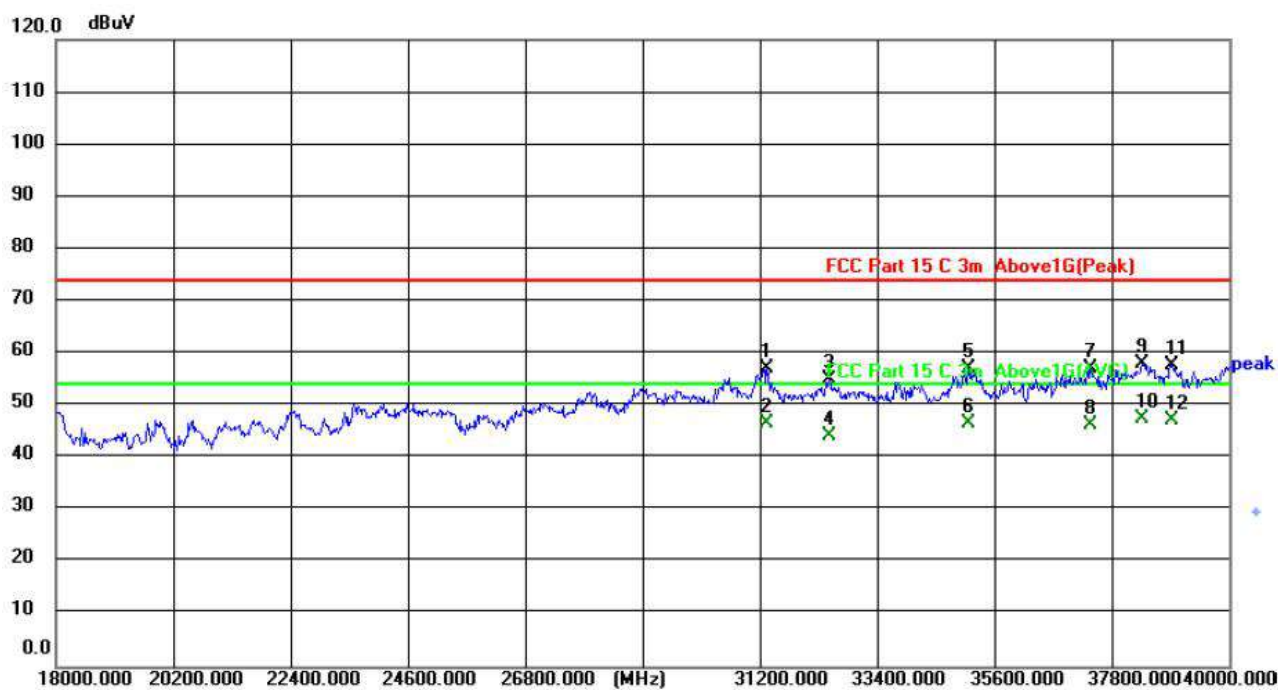
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	28098.000	28.12	22.85	50.97	74.00	-23.03	peak
2	28098.000	17.38	22.85	40.23	54.00	-13.77	AVG
3	32322.000	16.96	35.85	52.81	74.00	-21.19	peak
4	32322.000	6.48	35.85	42.33	54.00	-11.67	AVG
5	35160.000	26.68	25.69	52.37	74.00	-21.63	peak
6	35160.000	16.11	25.69	41.80	54.00	-12.20	AVG
7	37514.000	30.20	22.43	52.63	74.00	-21.37	peak
8	37514.000	19.67	22.43	42.10	54.00	-11.90	AVG
9	38570.000	27.95	24.67	52.62	74.00	-21.38	peak
10	38570.000	17.56	24.67	42.23	54.00	-11.77	AVG
11	39208.000	25.88	26.82	52.70	74.00	-21.30	peak
12	39208.000	15.68	26.82	42.50	54.00	-11.50	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5180MHz)



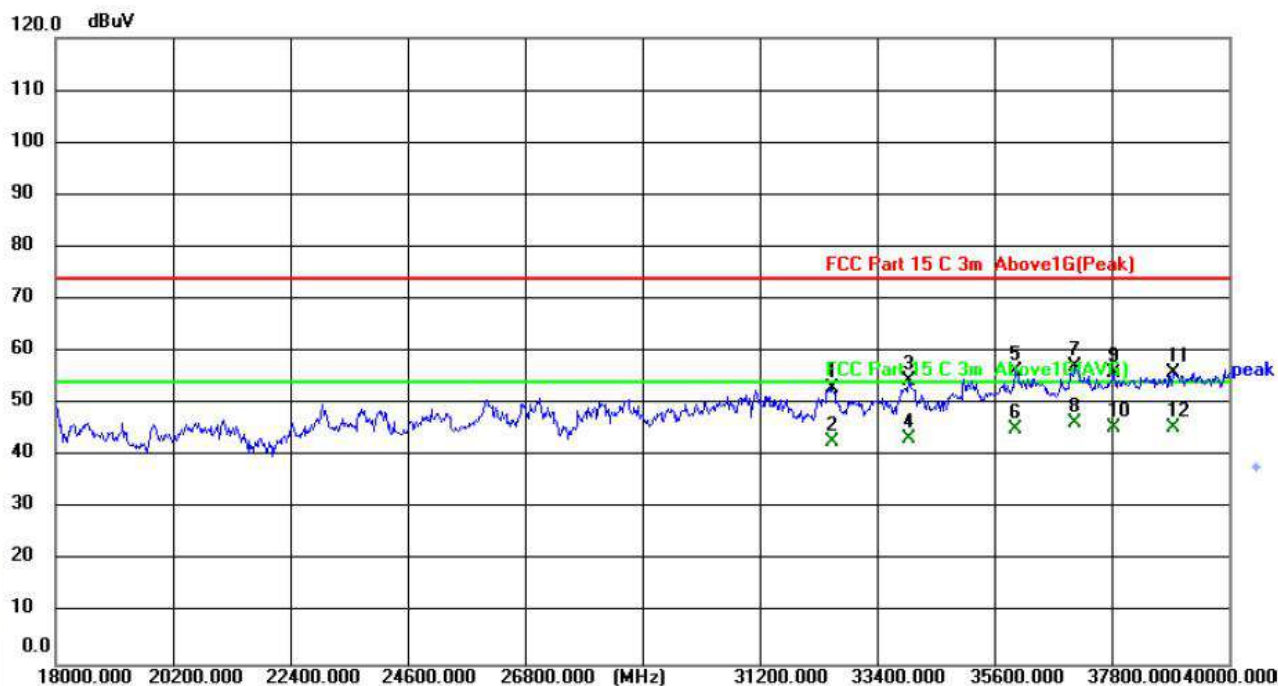
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	25040.000	30.49	18.17	48.66	74.00	-25.34	peak
2	25040.000	19.82	18.17	37.99	54.00	-16.01	AVG
3	32498.000	5.53	44.81	50.34	74.00	-23.66	peak
4	32498.000	-5.09	44.81	39.72	54.00	-14.28	AVG
5	35116.000	25.64	26.12	51.76	74.00	-22.24	peak
6	35116.000	15.08	26.12	41.20	54.00	-12.80	AVG
7	37008.000	30.00	21.96	51.96	74.00	-22.04	peak
8	37008.000	19.73	21.96	41.69	54.00	-12.31	AVG
9	39472.000	26.06	25.99	52.05	74.00	-21.95	peak
10	39472.000	15.59	25.99	41.58	54.00	-12.42	AVG
11	40000.000	26.36	27.38	53.74	74.00	-20.26	peak
12	40000.000	15.88	27.38	43.26	54.00	-10.74	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5200MHz)



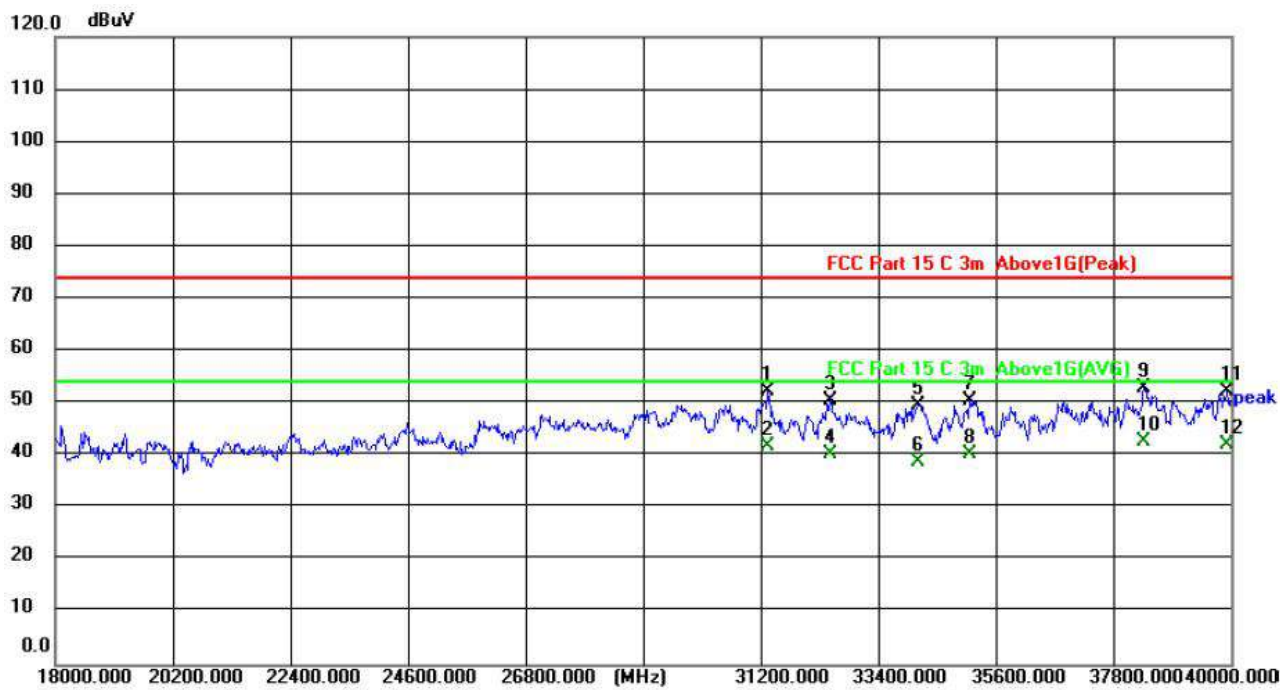
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	31332.000	53.21	4.09	57.30	74.00	-16.70	peak
2	31332.000	42.68	4.09	46.77	54.00	-7.23	AVG
3	32498.000	45.23	9.81	55.04	74.00	-18.96	peak
4	32498.000	34.48	9.81	44.29	54.00	-9.71	AVG
5	35116.000	51.02	6.12	57.14	74.00	-16.86	peak
6	35116.000	40.40	6.12	46.52	54.00	-7.48	AVG
7	37404.000	54.84	2.32	57.16	74.00	-16.84	peak
8	37404.000	44.04	2.32	46.36	54.00	-7.64	AVG
9	38372.000	53.83	4.21	58.04	74.00	-15.96	peak
10	38372.000	43.29	4.21	47.50	54.00	-6.50	AVG
11	38922.000	51.47	6.34	57.81	74.00	-16.19	peak
12	38922.000	40.87	6.34	47.21	54.00	-6.79	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5200MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	32564.000	11.26	41.71	52.97	74.00	-21.03	peak
2	32564.000	0.92	41.71	42.63	54.00	-11.37	AVG
3	33994.000	28.36	26.10	54.46	74.00	-19.54	peak
4	33994.000	17.37	26.10	43.47	54.00	-10.53	AVG
5	35996.000	33.83	22.31	56.14	74.00	-17.86	peak
6	35996.000	22.98	22.31	45.29	54.00	-8.71	AVG
7	37118.000	34.95	22.10	57.05	74.00	-16.95	peak
8	37118.000	24.23	22.10	46.33	54.00	-7.67	AVG
9	37844.000	32.80	23.20	56.00	74.00	-18.00	peak
10	37844.000	22.32	23.20	45.52	54.00	-8.48	AVG
11	38944.000	29.46	26.49	55.95	74.00	-18.05	peak
12	38944.000	18.91	26.49	45.40	54.00	-8.60	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5240MHz)



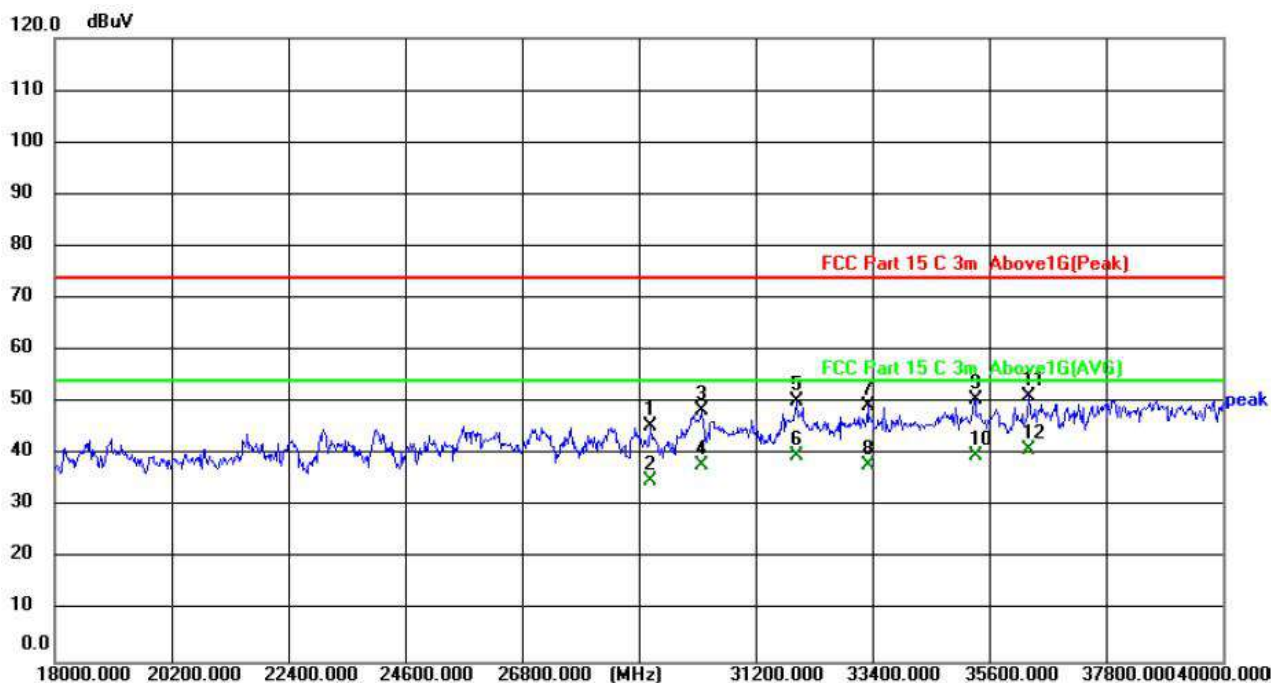
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	31332.000	48.21	4.09	52.30	74.00	-21.70	peak
2	31332.000	37.71	4.09	41.80	54.00	-12.20	AVG
3	32498.000	40.73	9.81	50.54	74.00	-23.46	peak
4	32498.000	30.42	9.81	40.23	54.00	-13.77	AVG
5	34148.000	44.58	5.07	49.65	74.00	-24.35	peak
6	34148.000	33.72	5.07	38.79	54.00	-15.21	AVG
7	35116.000	44.52	6.12	50.64	74.00	-23.36	peak
8	35116.000	34.09	6.12	40.21	54.00	-13.79	AVG
9	38372.000	48.83	4.21	53.04	74.00	-20.96	peak
10	38372.000	38.53	4.21	42.74	54.00	-11.26	AVG
11	39934.000	45.20	7.17	52.37	74.00	-21.63	peak
12	39934.000	34.89	7.17	42.06	54.00	-11.94	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5240MHz)



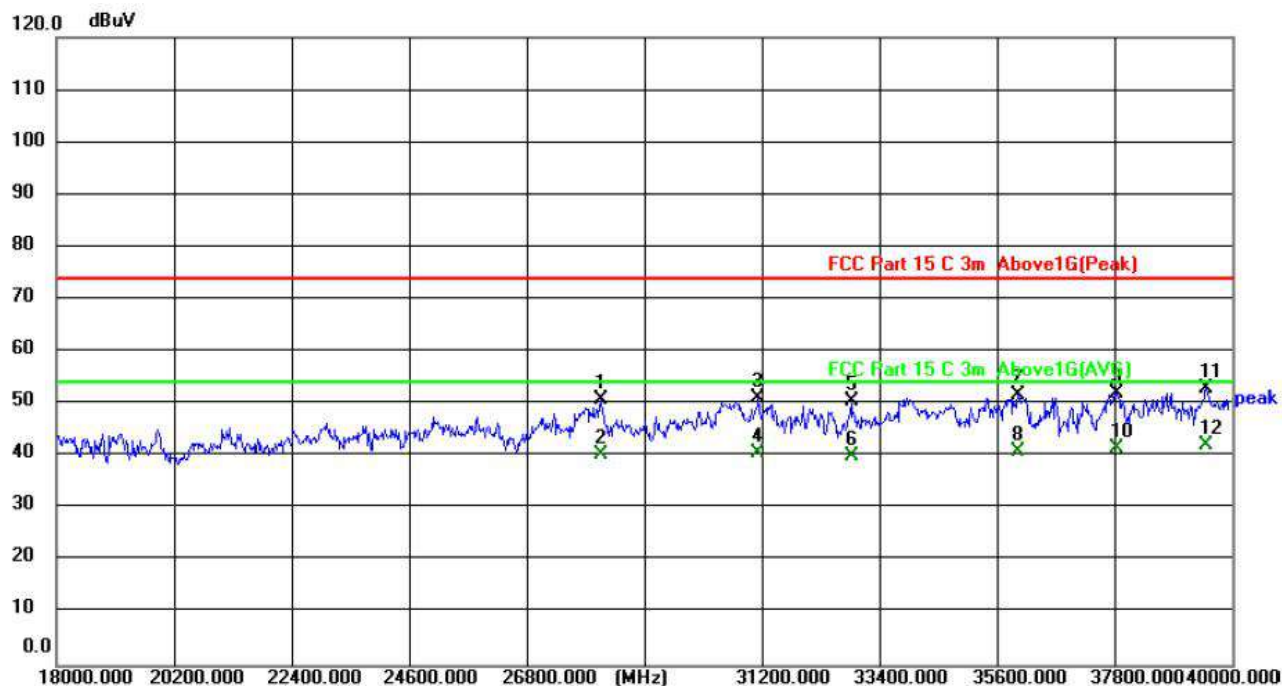
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	28692.000	30.26	18.88	49.14	74.00	-24.86	peak
2	28692.000	20.01	18.88	38.89	54.00	-15.11	AVG
3	30892.000	22.62	26.25	48.87	74.00	-25.13	peak
4	30892.000	12.15	26.25	38.40	54.00	-15.60	AVG
5	33994.000	23.86	26.10	49.96	74.00	-24.04	peak
6	33994.000	13.31	26.10	39.41	54.00	-14.59	AVG
7	35270.000	26.44	24.61	51.05	74.00	-22.95	peak
8	35270.000	15.95	24.61	40.56	54.00	-13.44	AVG
9	36304.000	30.30	20.59	50.89	74.00	-23.11	peak
10	36304.000	19.55	20.59	40.14	54.00	-13.86	AVG
11	39824.000	23.88	26.81	50.69	74.00	-23.31	peak
12	39824.000	13.77	26.81	40.58	54.00	-13.42	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5745MHz)



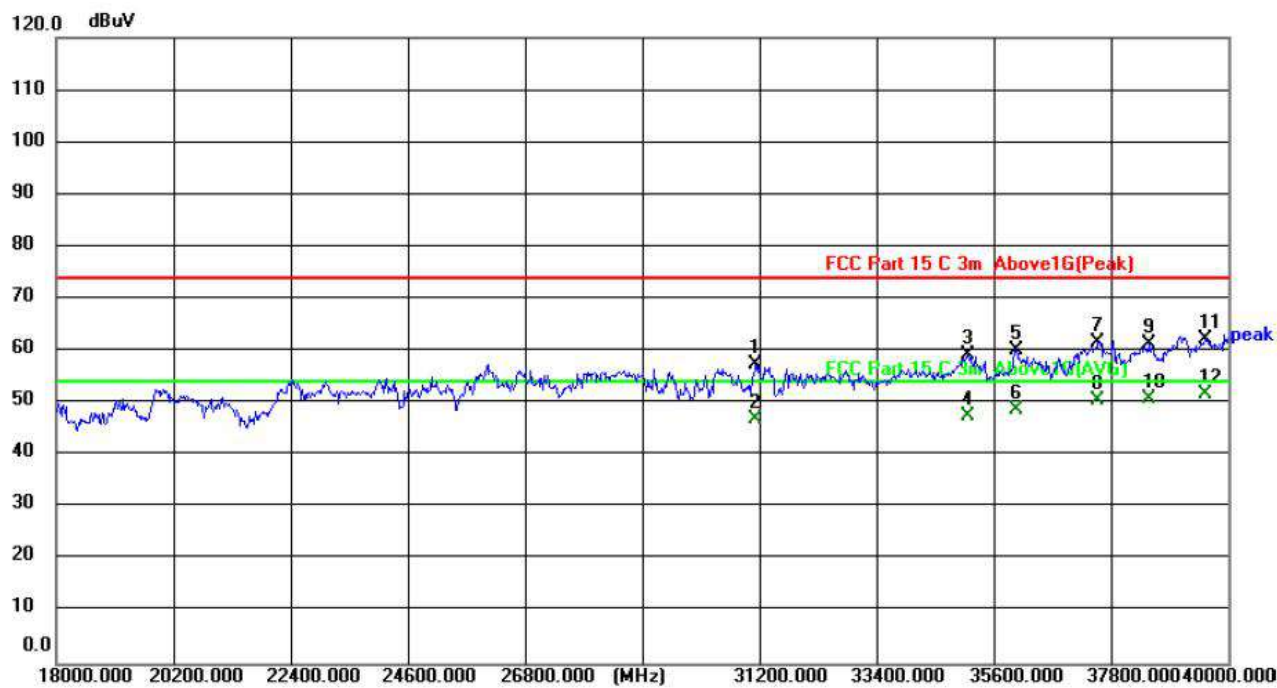
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	29220.000	25.36	20.06	45.42	74.00	-28.58	peak
2	29220.000	14.80	20.06	34.86	54.00	-19.14	AVG
3	30188.000	24.03	24.44	48.47	74.00	-25.53	peak
4	30188.000	13.55	24.44	37.99	54.00	-16.01	AVG
5	31970.000	30.65	19.65	50.30	74.00	-23.70	peak
6	31970.000	20.13	19.65	39.78	54.00	-14.22	AVG
7	33312.000	30.10	19.34	49.44	74.00	-24.56	peak
8	33312.000	18.54	19.34	37.88	54.00	-16.12	AVG
9	35336.000	26.54	23.96	50.50	74.00	-23.50	peak
10	35336.000	15.72	23.96	39.68	54.00	-14.32	AVG
11	36348.000	30.85	20.36	51.21	74.00	-22.79	peak
12	36348.000	20.51	20.36	40.87	54.00	-13.13	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5745MHz)



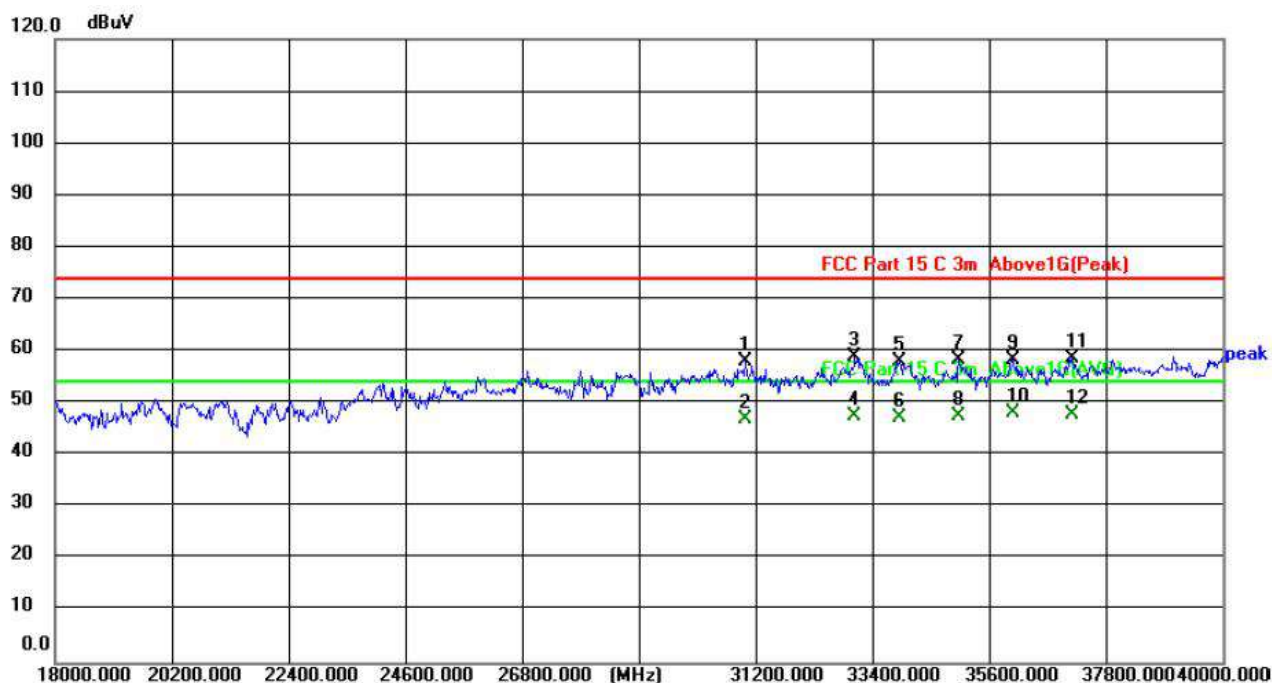
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	28186.000	28.94	21.87	50.81	74.00	-23.19	peak
2	28186.000	18.46	21.87	40.33	54.00	-13.67	AVG
3	31134.000	25.73	25.35	51.08	74.00	-22.92	peak
4	31134.000	15.28	25.35	40.63	54.00	-13.37	AVG
5	32872.000	24.26	26.22	50.48	74.00	-23.52	peak
6	32872.000	13.88	26.22	40.10	54.00	-13.90	AVG
7	35996.000	29.33	22.31	51.64	74.00	-22.36	peak
8	35996.000	18.75	22.31	41.06	54.00	-12.94	AVG
9	37844.000	28.80	23.20	52.00	74.00	-22.00	peak
10	37844.000	18.32	23.20	41.52	54.00	-12.48	AVG
11	39516.000	26.90	25.92	52.82	74.00	-21.18	peak
12	39516.000	16.24	25.92	42.16	54.00	-11.84	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5785MHz)



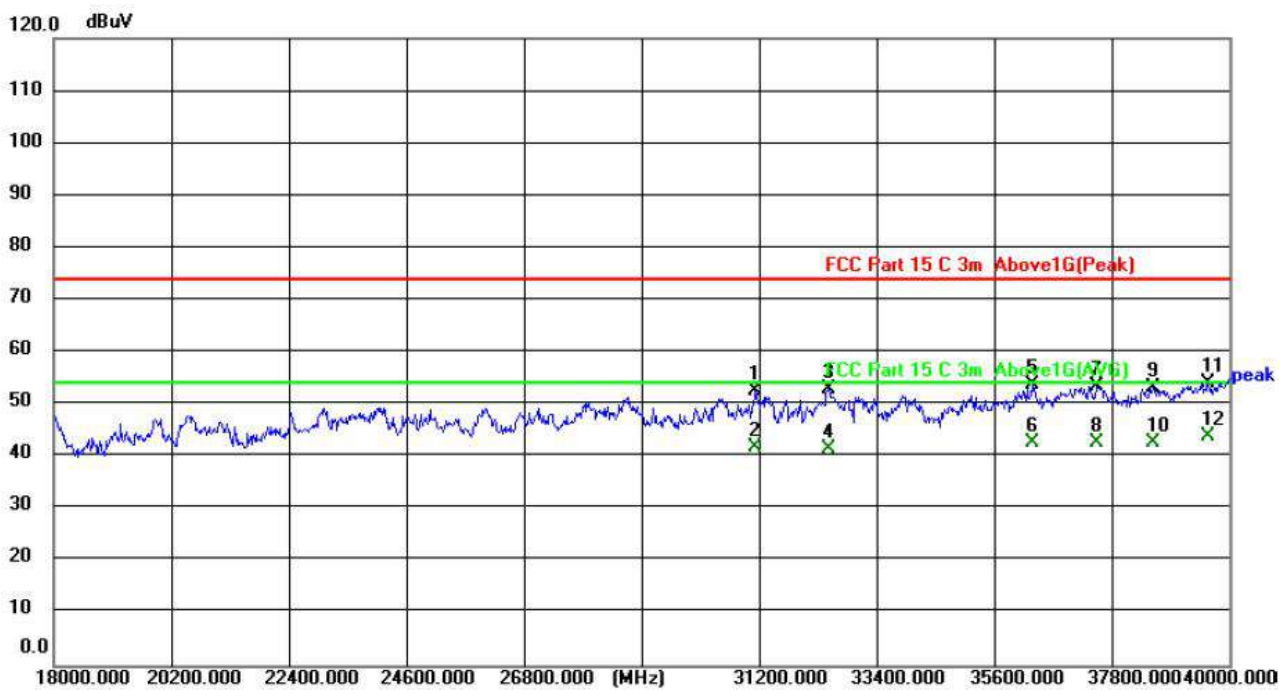
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	31134.000	32.23	25.35	57.58	74.00	-16.42	peak
2	31134.000	21.61	25.35	46.96	54.00	-7.04	AVG
3	35116.000	33.14	26.12	59.26	74.00	-14.74	peak
4	35116.000	21.38	26.12	47.50	54.00	-6.50	AVG
5	36018.000	38.02	22.20	60.22	74.00	-13.78	peak
6	36018.000	26.60	22.20	48.80	54.00	-5.20	AVG
7	37558.000	39.25	22.54	61.79	74.00	-12.21	peak
8	37558.000	27.96	22.54	50.50	54.00	-3.50	AVG
9	38504.000	36.95	24.45	61.40	74.00	-12.60	peak
10	38504.000	26.31	24.45	50.76	54.00	-3.24	AVG
11	39582.000	36.23	26.08	62.31	74.00	-11.69	peak
12	39582.000	25.80	26.08	51.88	54.00	-2.12	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5785MHz)



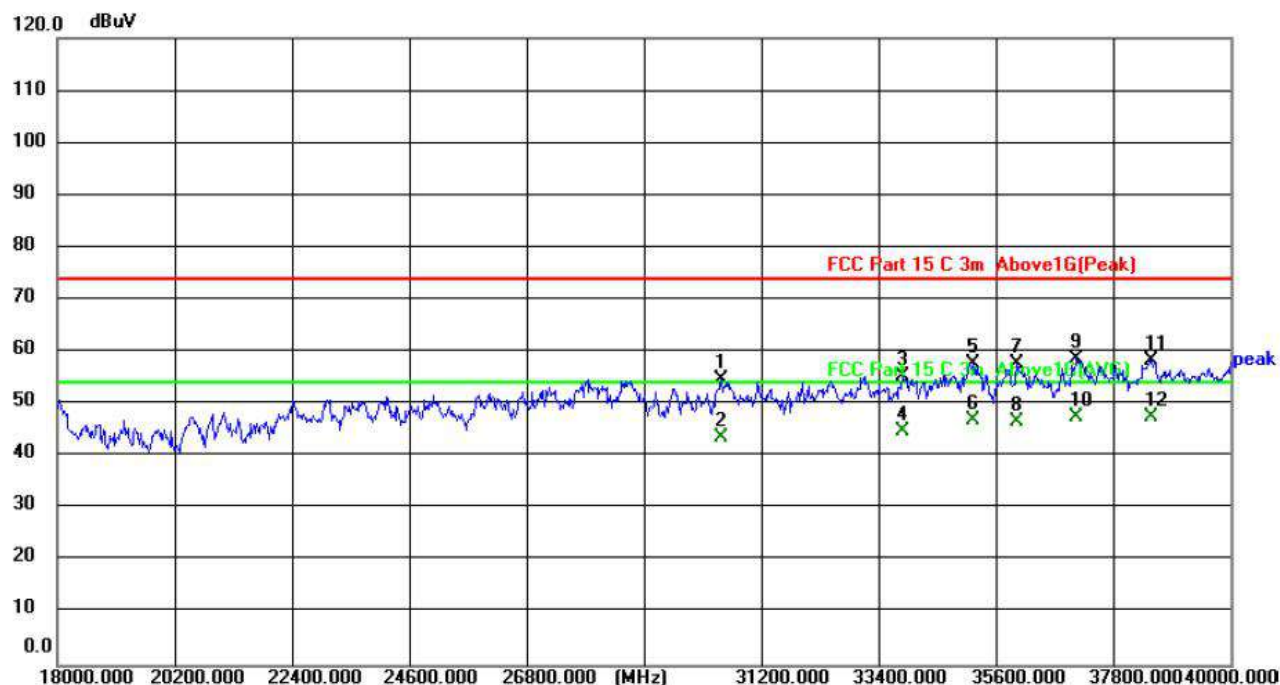
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	31002.000	31.92	26.11	58.03	74.00	-15.97	peak
2	31002.000	20.75	26.11	46.86	54.00	-7.14	AVG
3	33070.000	39.34	19.67	59.01	74.00	-14.99	peak
4	33070.000	27.86	19.67	47.53	54.00	-6.47	AVG
5	33906.000	33.15	24.92	58.07	74.00	-15.93	peak
6	33906.000	22.30	24.92	47.22	54.00	-6.78	AVG
7	35028.000	31.39	26.95	58.34	74.00	-15.66	peak
8	35028.000	20.46	26.95	47.41	54.00	-6.59	AVG
9	36040.000	36.28	22.07	58.35	74.00	-15.65	peak
10	36040.000	25.96	22.07	48.03	54.00	-5.97	AVG
11	37162.000	36.52	22.16	58.68	74.00	-15.32	peak
12	37162.000	25.80	22.16	47.96	54.00	-6.04	AVG

Temperature:	24.5°C	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11a (5825MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	31134.000	27.23	25.35	52.58	74.00	-21.42	peak
2	31134.000	16.53	25.35	41.88	54.00	-12.12	AVG
3	32498.000	8.03	44.81	52.84	74.00	-21.16	peak
4	32498.000	-3.25	44.81	41.56	54.00	-12.44	AVG
5	36304.000	33.30	20.59	53.89	74.00	-20.11	peak
6	36304.000	22.29	20.59	42.88	54.00	-11.12	AVG
7	37514.000	31.20	22.43	53.63	74.00	-20.37	peak
8	37514.000	20.26	22.43	42.69	54.00	-11.31	AVG
9	38570.000	28.45	24.67	53.12	74.00	-20.88	peak
10	38570.000	17.96	24.67	42.63	54.00	-11.37	AVG
11	39604.000	28.13	26.12	54.25	74.00	-19.75	peak
12	39604.000	17.90	26.12	44.02	54.00	-9.98	AVG

Temperature:	24.5℃	Relative Humidity:	55.5%
Pressure:	101.3kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5825MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	30452.000	28.44	26.25	54.69	74.00	-19.31	peak
2	30452.000	17.55	26.25	43.80	54.00	-10.20	AVG
3	33840.000	31.18	24.04	55.22	74.00	-18.78	peak
4	33840.000	20.82	24.04	44.86	54.00	-9.14	AVG
5	35160.000	32.18	25.69	57.87	74.00	-16.13	peak
6	35160.000	21.27	25.69	46.96	54.00	-7.04	AVG
7	35996.000	35.33	22.31	57.64	74.00	-16.36	peak
8	35996.000	24.27	22.31	46.58	54.00	-7.42	AVG
9	37118.000	36.45	22.10	58.55	74.00	-15.45	peak
10	37118.000	25.45	22.10	47.55	54.00	-6.45	AVG
11	38504.000	33.95	24.45	58.40	74.00	-15.60	peak
12	38504.000	23.15	24.45	47.60	54.00	-6.40	AVG

Note:

1. Remark: Level=Reading+Factor

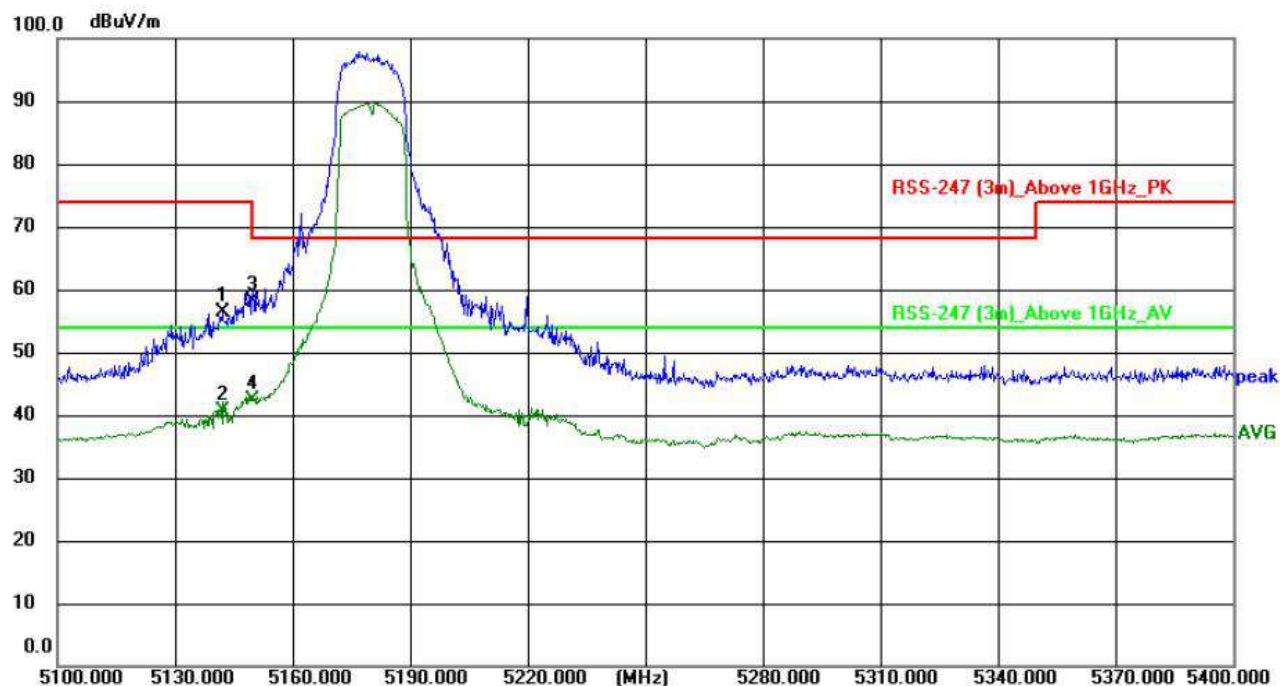
Factor=Cable Loss+ANT Factor-AMP Factor

Margin=Level - Factor

2. We test all the mode and recorded the worst mode (802.11 a) in the report.

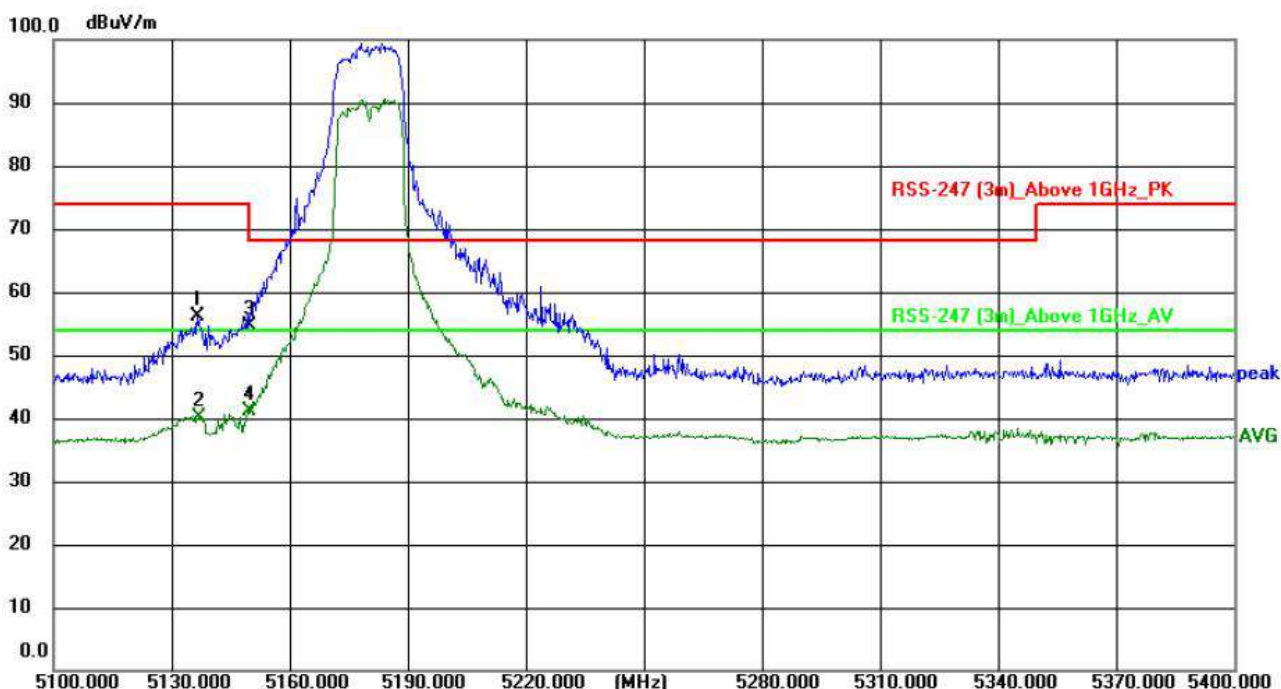
Restricted bands:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Mode	802.11 a (5180MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5142.000	50.61	5.73	56.34	74.00	-17.66	peak
2	5142.000	34.97	5.73	40.70	54.00	-13.30	AVG
3	5150.000	52.25	5.77	58.02	68.20	-10.18	peak
4	5150.000	36.59	5.77	42.36	54.00	-11.64	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Mode	802.11 a (5180MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5136.600	50.36	5.69	56.05	74.00	-17.95	peak
2	5136.900	34.37	5.69	40.06	54.00	-13.94	AVG
3	5150.000	48.86	5.77	54.63	68.20	-13.57	peak
4	5150.000	35.26	5.77	41.03	54.00	-12.97	AVG