Test Report

Applicant	:	Shenzhen Shengke Technology Co,Ltd
Address	:	Plant 301, Yanda Industrial Zone, No. 116 Shuiku Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong
Product Name	:	Auto Motorcycle smart screen
Brand Mark	:	N/A
Model	:	SP505-H501
Extension model	:	SP501, SP502, SP503, SP504, SP505, SP506, SP507, SP508, H501, H502, H503, H504, H505, H506, H507, H508, SK6901, SK6902, SK6903, SK6904, SK6905, SK6906, SK6907, SK6908
FCC ID	:	2BGQH-SK20240000
Report Number	:	BLA-EMC-202405-A1404
Date of Receipt	:	2024.05.09
Date of Test	:	2024.05.09 to 2024.06.20
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Compiled by: Hugh **Review by:** Sweely **Approved by:** Blue Zheng

Issued Date: 2024.06.20

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

BlueAsia of Technical Services(Shenzhen) Co., Ltd. BLA

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Revise Record

Version No.	Date	Description
01	2024.06.20	Original

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1 General information

1.1 General information

Applicant	Shenzhen Shengke Technology Co,Ltd
Address	Plant 301,Yanda Industrial Zone,No. 116 Shuiku Road,Xixiang Street,Bao'an District,Shenzhen,Guangdong
Manufacturer	Shenzhen Shengke Technology Co,Ltd
Address	Plant 301,Yanda Industrial Zone,No. 116 Shuiku Road,Xixiang Street,Bao'an District,Shenzhen,Guangdong
Factory	N/A
Address	N/A

1.2 General description of EUT

Product name	Auto Motorcycle smart screen
Model no.	SP505-H501
Series model	SP501, SP502, SP503, SP504, SP505, SP506, SP507, SP508, H501, H502, H503, H504, H505, H506, H507, H508, SK6901, SK6902, SK6903, SK6904, SK6905, SK6906, SK6907, SK6908
Note	The above models are identical in PCB layout, internal structure and circuit. The difference is the commercial use model
Operation Frequency:	2412MHz-2472MHz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz 802.11n(HT40): 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 13 802.11n(HT40):9
Antenna Type:	PCB antenna
Antenna Gain:	-18.06dBi(Provided by customer)
Power supply or adapter information	DC12V
Hardware Version	V1.0
Software Version	20240229SKFCC
Engineer sample no	BLA-EMC-202405-A14
Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.	

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2 Test summary

No.	Test item	Result	Remark
1	Antenna Requirement	Pass	
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	N/A	
3	Conducted Peak Output Power	Pass	
4	Minimum 6dB Bandwidth	Pass	
5	Power Spectrum Density	Pass	
6	Conducted Band Edges Measurement	Pass	
7	Conducted Spurious Emissions	Pass	
8	Radiated Spurious Emissions	Pass	
9	Radiated Emissions which fall in the restricted bands	Pass	

N/A: Not Applicable

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3 Test Configuration

3.1 Test mode

Test Mode Note 1	Description
TX	Keep the EUT in continuously transmitting mode with modulation.（Duty cycle>98%）
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use

3.2 Operation Frequency each of channel

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	13	2472MHz
2	2417MHz	6	2437MHz	10	2457MHz	--	--
3	2422MHz	7	2442MHz	11	2462MHz	--	--
4	2427MHz	8	2447MHz	12	2467MHz	--	--

Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz	11	2462MHz	--	--
4	2427MHz	8	2447MHz	--	--	--	--
5	2432MHz	9	2452MHz	--	--	--	--
6	2437MHz	10	2457MHz	--	--	--	--

3.3 Test channel

For 802.11b/g/n (HT20), the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz); 802.11n HT40, the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 3 (2422MHz), 6 (2437MHz) and 9 (2452MHz).

3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
Note: "--" mean no any auxiliary device during testing.				

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 12V

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4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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5 Test equipment

Equipment No.	Equipment Name	Model No.	Manufacture	S/N	Cal. Date	Next Cal. Date
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2023/08/30	2024/08/29
BLA-EMC-009	EMI Receiver	ESR7	R&S	101199	2023/08/30	2024/08/29
BLA-EMC-012	broad band Antenna	VULB9168	Schwarz beck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarz beck	01892	2022/09/13	2025/09/12
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2023/08/30	2024/08/29
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2023/11/16	2024/11/15
BLA-EMC-028	Spectrum	N9020A	Agilent	MY53420839	2023/11/16	2024/11/15
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2023/08/30	2024/08/29
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2023/09/01	2024/08/31
BLA-EMC-043	Loop antenna	FMZB1519B	SCHNARZBECK	00102	2022/09/14	2025/09/13
BLA-EMC-044	Wideband radio communication tester	CMW500	R&S	132429	2023/08/30	2024/08/29
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2023/07/07	2024/07/06
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2023/07/07	2024/07/06
BLA-EMC-062	Signal Generator	N5181A	Agilent	MY46240904	2023/07/07	2024/07/06
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2023/07/07	2024/07/06
BLA-EMC-065	broadband Antenna	VULB9168	Schwarz beck	01065P	2022/12/12	2025/12/11
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2023/07/07	2024/07/06
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2023/08/30	2024/08/29
BLA-EMC-080	Signal Generator	N5182A	Agilent	MY47420955	2023/08/30	2024/08/29
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2023/08/14	2024/08/13

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6 Test result

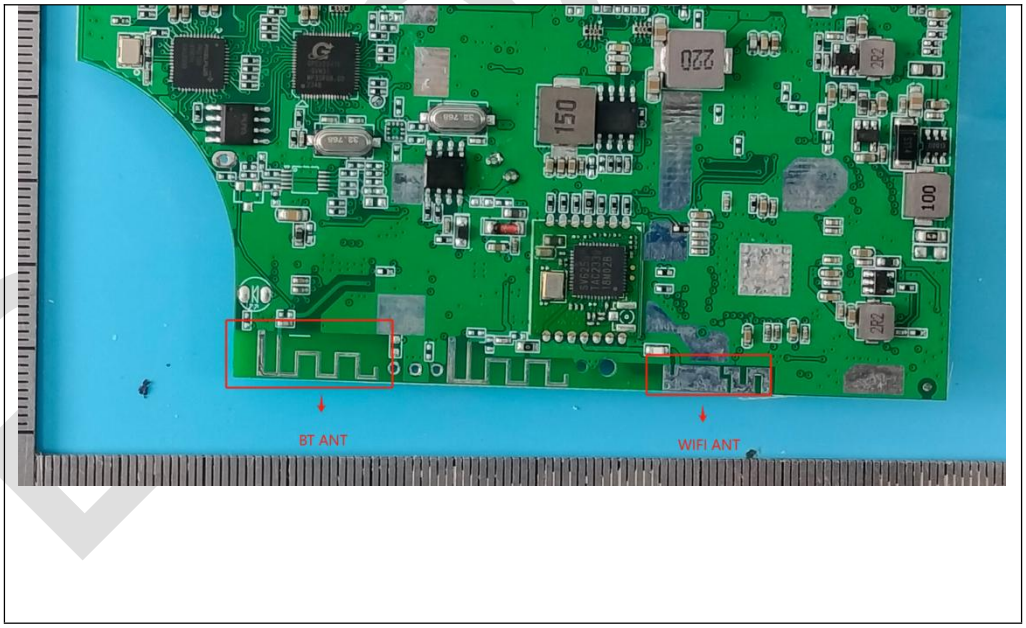
6.1 Antenna requirement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

6.1.1 Requirement

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -18.06 dBi.



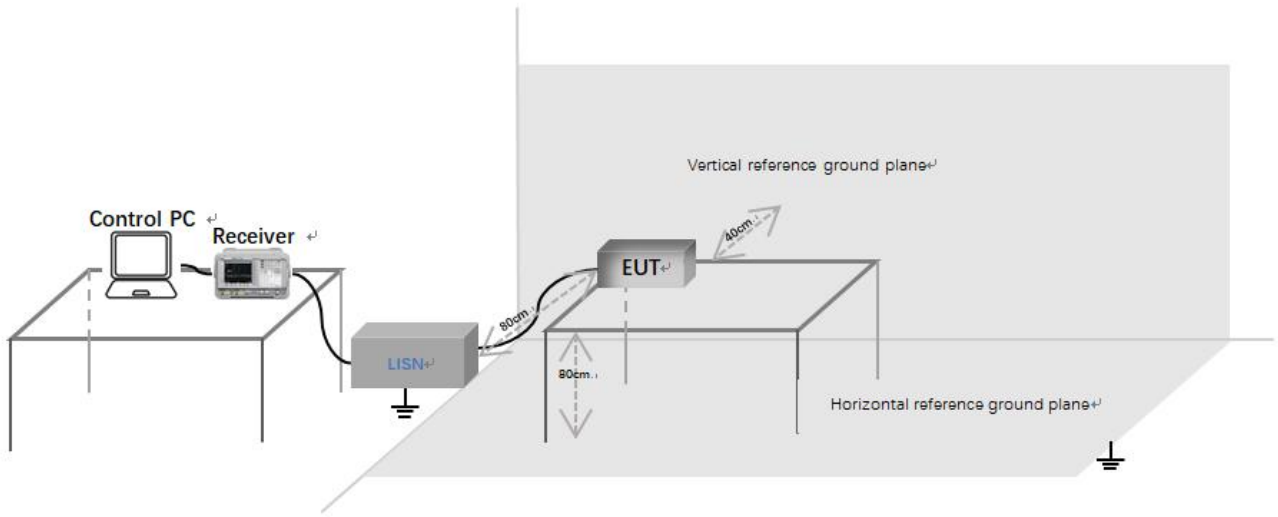
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.2.1 Limit

Frequency of emission(MHz)	**Conducted limit(dBμV)**	
	Quasi-peak	**Average**
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

6.2.2 Test setup



Description of test setup connection:

a) *Connect the control PC to the receiver through a USB to GPIB cable;*

b) *The receiver is connected to the LISN through a coaxial line;*

c) *Connect the power port of LISN to the EUT.*

6.2.3 Procedure

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

6.2.4 Test data

N/A

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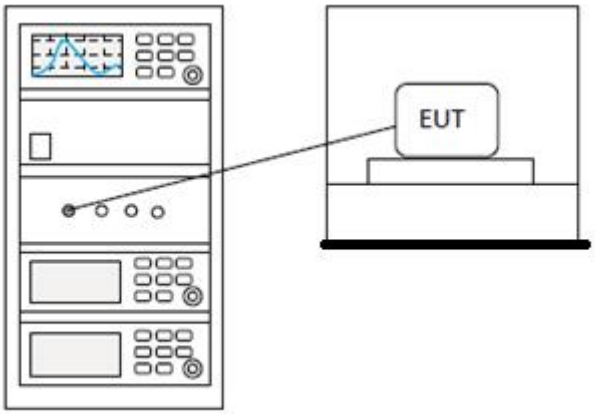
6.3 Conducted Peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

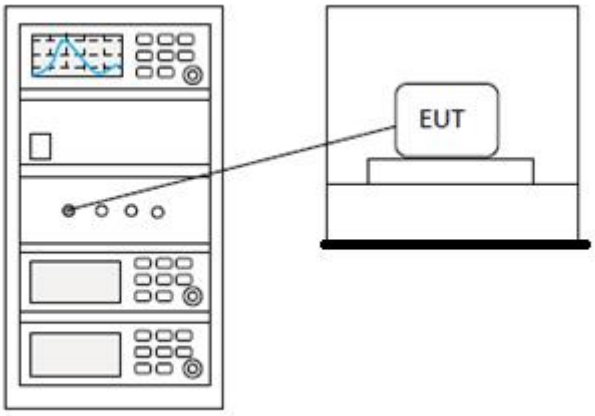
6.4 Minimum 6dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Limit

≥500 kHz

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details

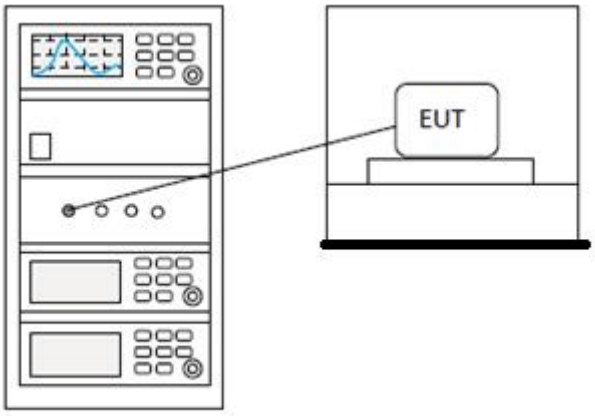
6.5 Power spectrum density

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

≤8dBm in any 3 kHz band during any time interval of continuous transmission

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

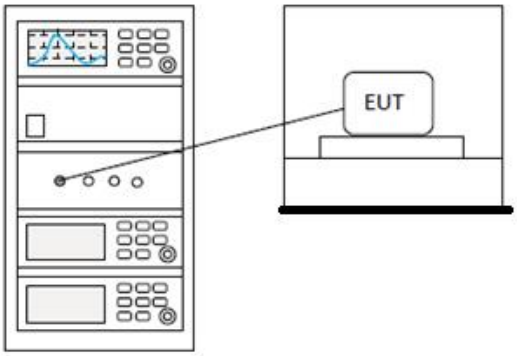
6.6 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.
If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.
Attenuation below the general limits specified in §15.209(a) is not required.
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

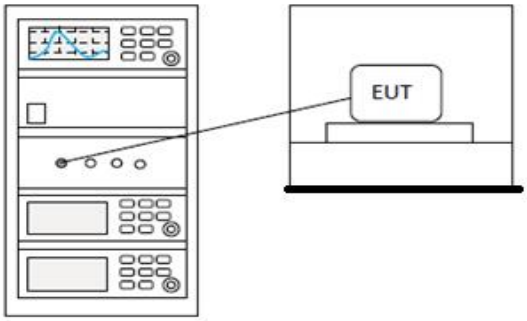
6.7 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.
If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.
Attenuation below the general limits specified in §15.209(a) is not required.
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

6.8 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

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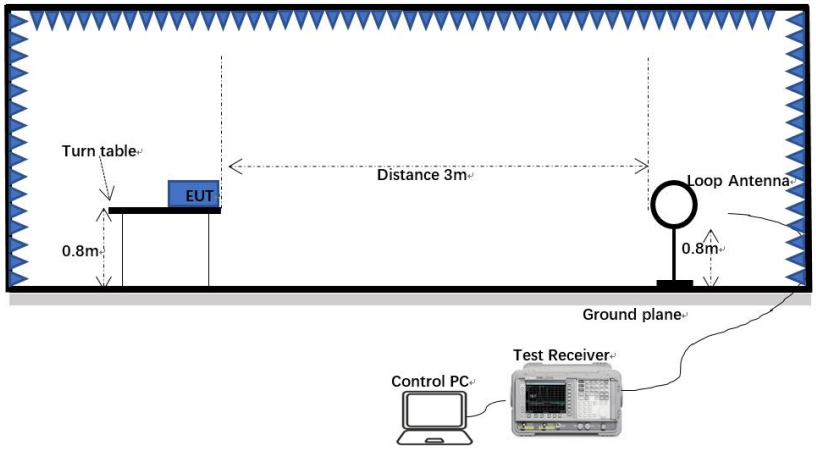
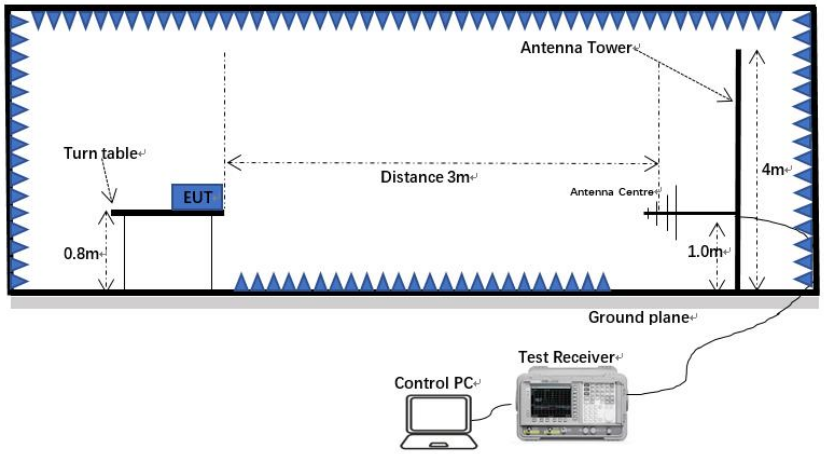
6.8.2 Test setup

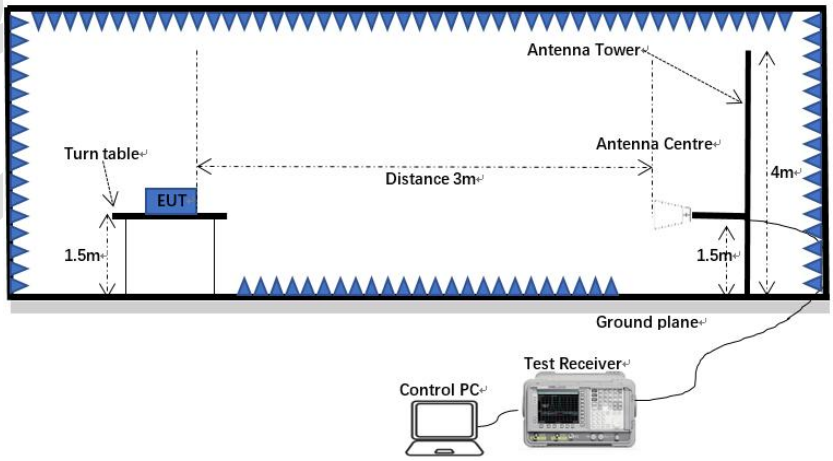
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.8.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

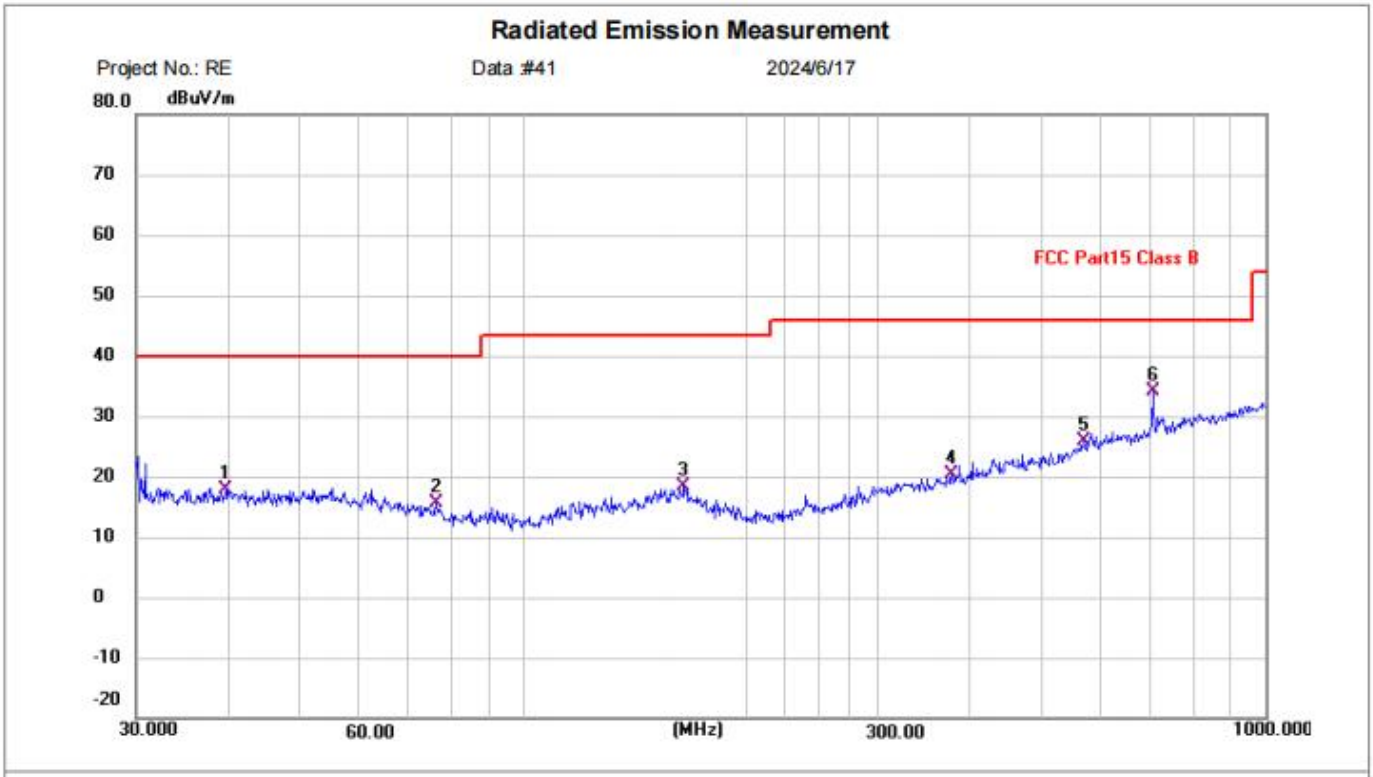
Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Level (dBuV) = Reading (dBuV) + Factor (dB/m)

6.8.4 Test data

Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT:
M/N:
Mode: 2.4GWIFI-TX
Note:

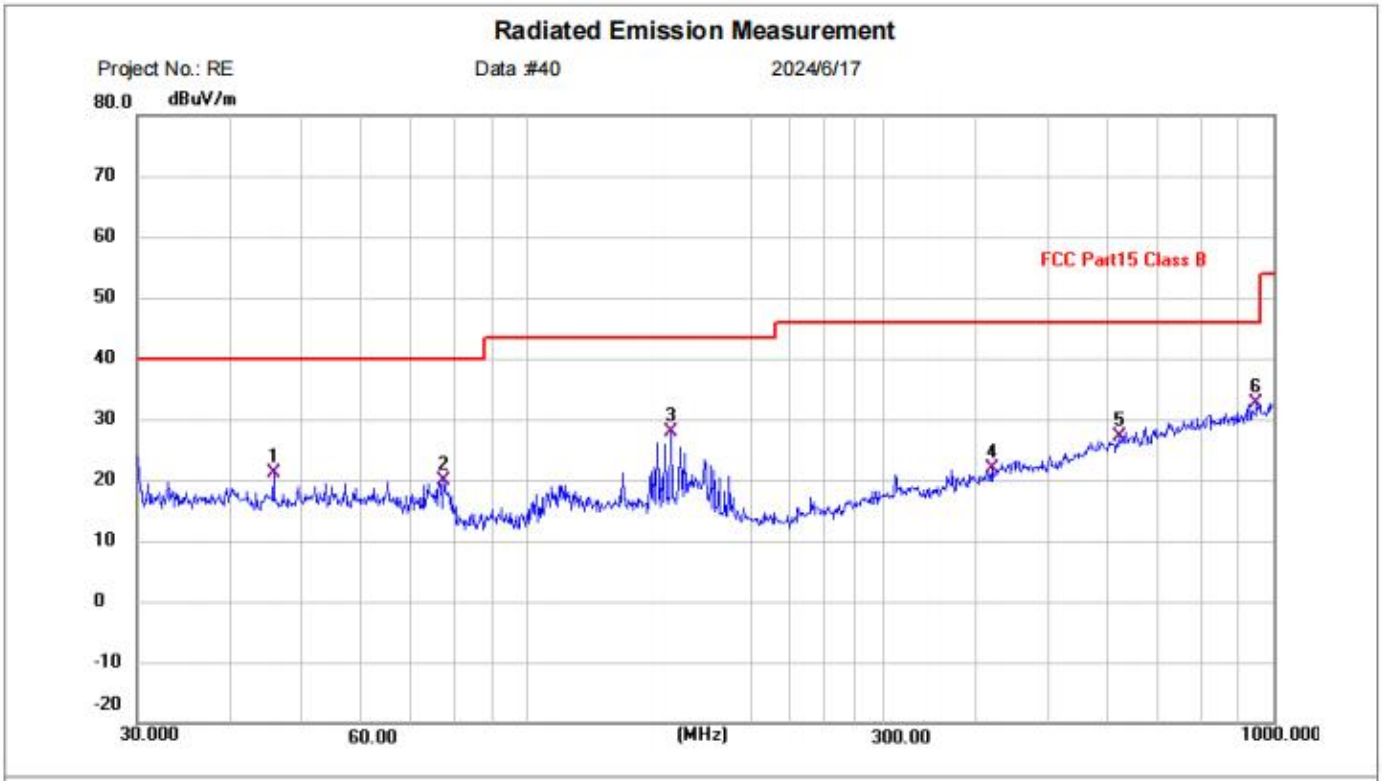
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	39.7146	-1.68	19.61	17.93	40.00	-22.07	QP	P	
2	76.2442	-0.04	15.78	15.74	40.00	-24.26	QP	P	
3	164.3301	-0.88	19.30	18.42	43.50	-25.08	QP	P	
4	377.2590	-1.04	21.32	20.28	46.00	-25.72	QP	P	
5	568.6126	-0.18	25.98	25.80	46.00	-20.20	QP	P	
6 *	704.2261	6.08	28.14	34.22	46.00	-11.78	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT:
M/N:
Mode: 2.4GWIFI-TX
Note:

Polarization: *Vertical*
Power:

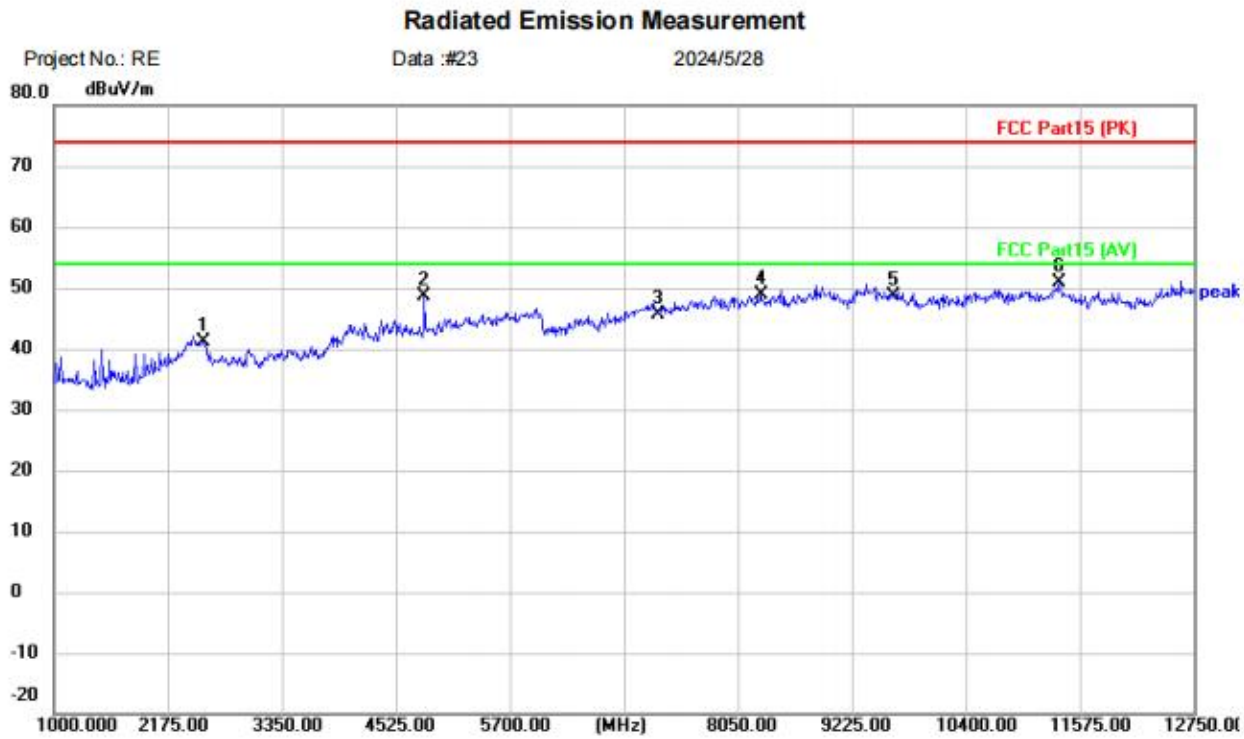
Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	45.6948	2.02	19.19	21.21	40.00	-18.79	QP	P	
2	77.3212	4.48	15.34	19.82	40.00	-20.18	QP	P	
3	155.9101	8.37	19.40	27.77	43.50	-15.73	QP	P	
4	419.1081	-0.56	22.41	21.85	46.00	-24.15	QP	P	
5	620.7096	-0.02	27.11	27.09	46.00	-18.91	QP	P	
6 *	948.7610	0.75	31.84	32.59	46.00	-13.41	QP	P	

Test Result: Pass

Above 1GHz:

[Test mode: TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2412
Note:

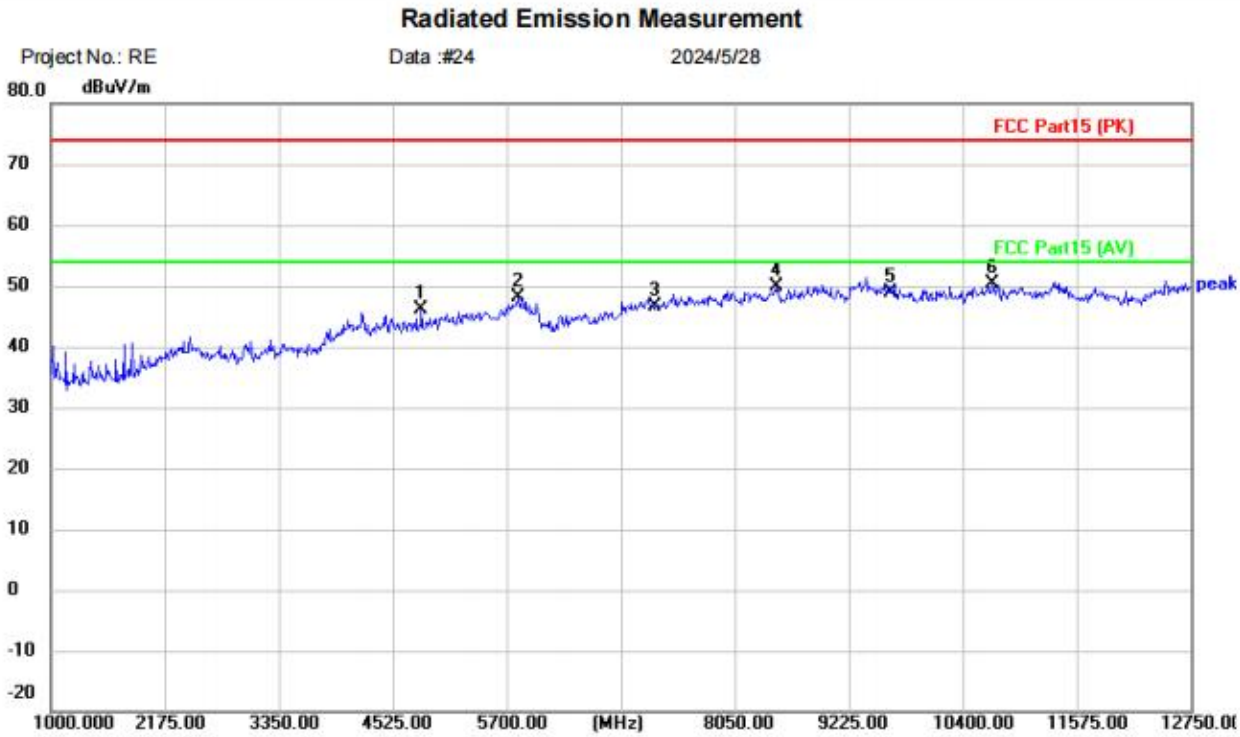
Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2539.250	42.77	-1.52	41.25	74.00	-32.75	peak	
2		4818.750	42.96	5.65	48.61	74.00	-25.39	peak	
3		7236.000	36.39	9.24	45.63	74.00	-28.37	peak	
4		8285.000	38.85	10.14	48.99	74.00	-25.01	peak	
5		9648.000	36.28	12.28	48.56	74.00	-25.44	peak	
6	*	11363.50	38.11	12.65	50.76	74.00	-23.24	peak	

Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2412
Note:

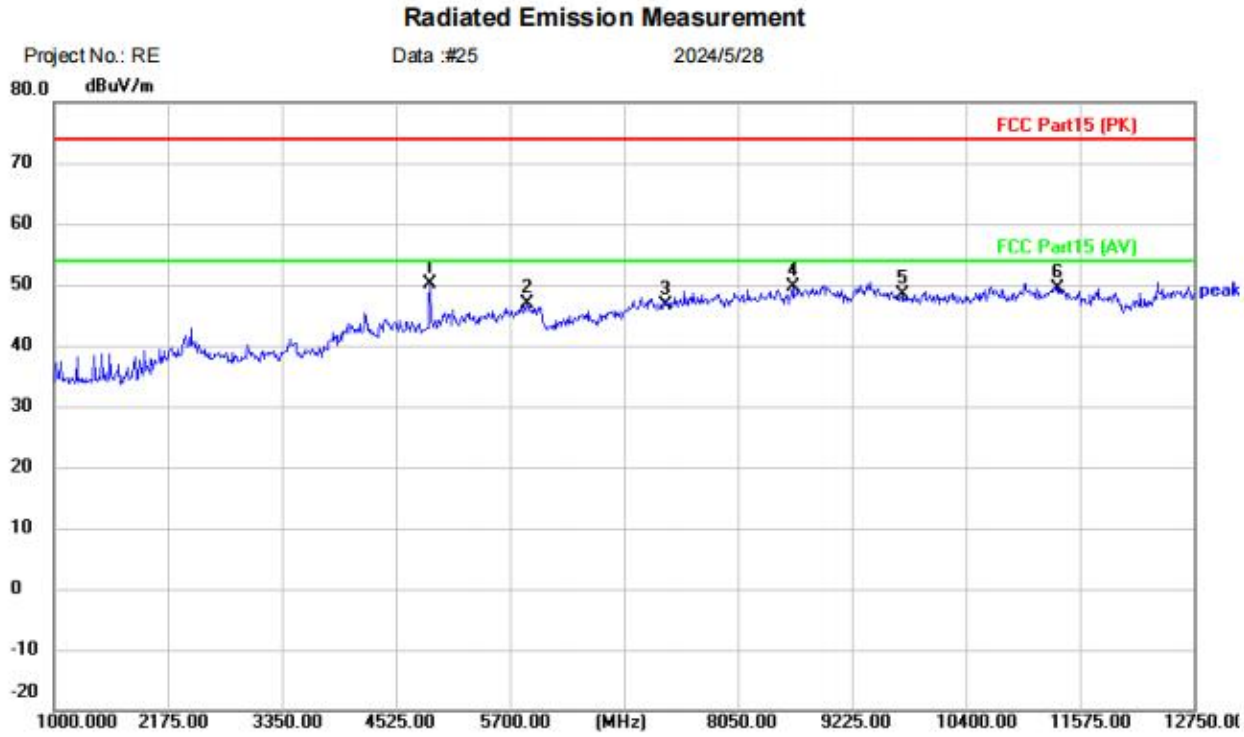
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4818.750	40.46	5.65	46.11	74.00	-27.89	peak	
2		5817.500	40.06	8.11	48.17	74.00	-25.83	peak	
3		7236.000	37.40	9.24	46.64	74.00	-27.36	peak	
4		8473.000	39.06	10.77	49.83	74.00	-24.17	peak	
5		9648.000	36.53	12.28	48.81	74.00	-25.19	peak	
6	*	10705.50	37.15	13.12	50.27	74.00	-23.73	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2437
Note:

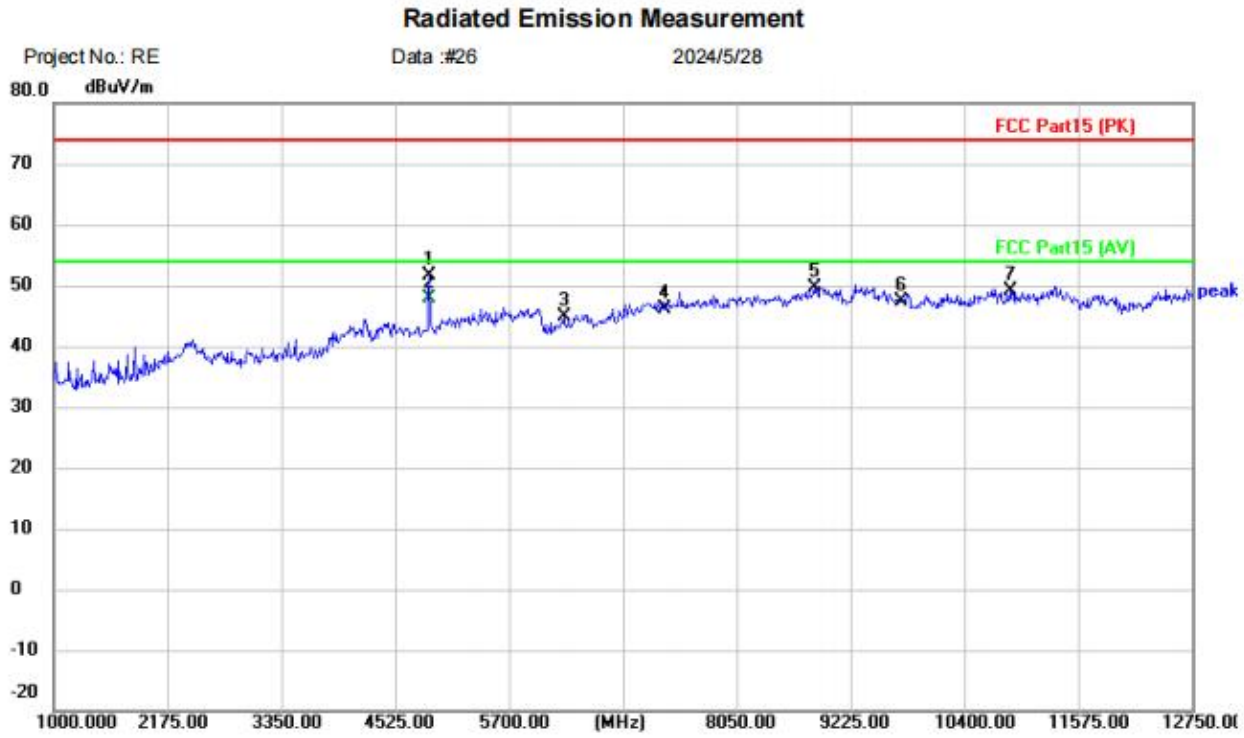
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4877.500	44.40	5.72	50.12	74.00	-23.88	peak	
2		5876.250	38.36	8.54	46.90	74.00	-27.10	peak	
3		7311.000	37.14	9.44	46.58	74.00	-27.42	peak	
4		8614.000	38.36	11.16	49.52	74.00	-24.48	peak	
5		9748.000	36.14	12.19	48.33	74.00	-25.67	peak	
6		11351.75	36.85	12.65	49.50	74.00	-24.50	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2437
Note:

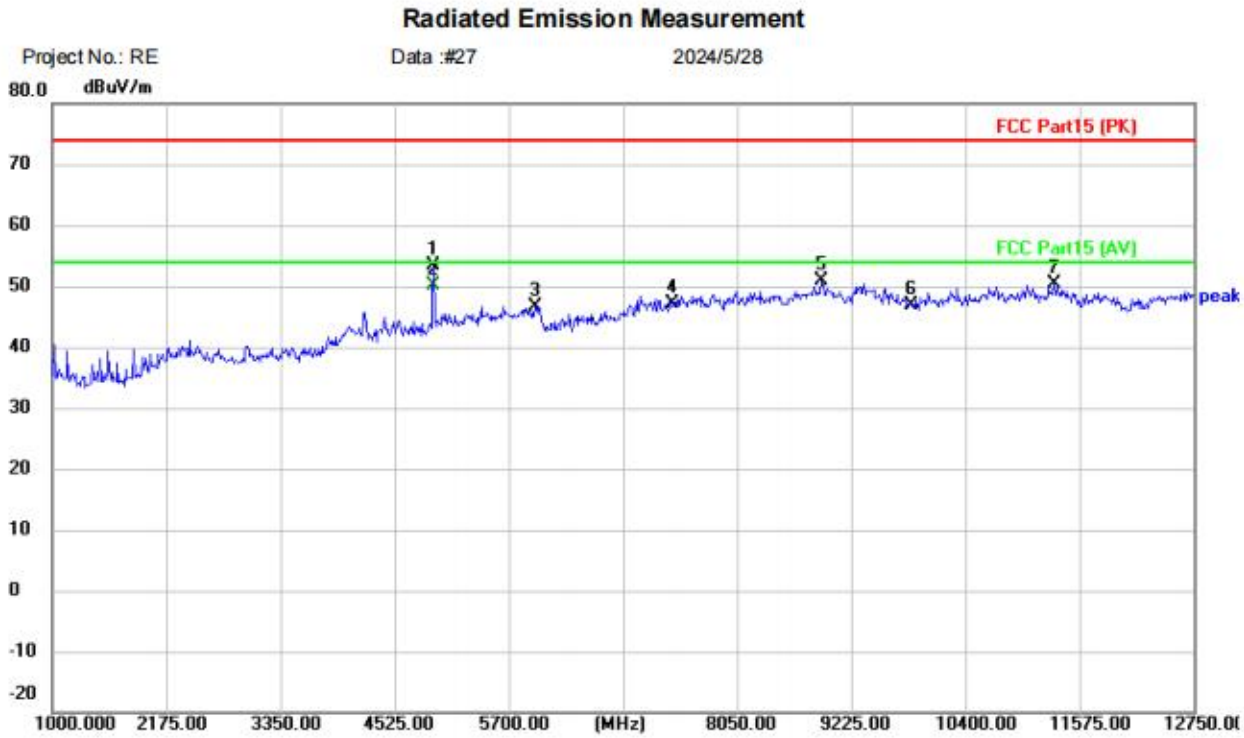
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4877.500	45.96	5.72	51.68	74.00	-22.32	peak	
2	*	4877.500	42.22	5.72	47.94	54.00	-6.06	AVG	
3		6264.000	38.54	6.41	44.95	74.00	-29.05	peak	
4		7311.000	36.65	9.44	46.09	74.00	-27.91	peak	
5		8849.000	37.97	11.77	49.74	74.00	-24.26	peak	
6		9748.000	35.19	12.19	47.38	74.00	-26.62	peak	
7		10870.00	36.21	13.01	49.22	74.00	-24.78	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2462
Note:

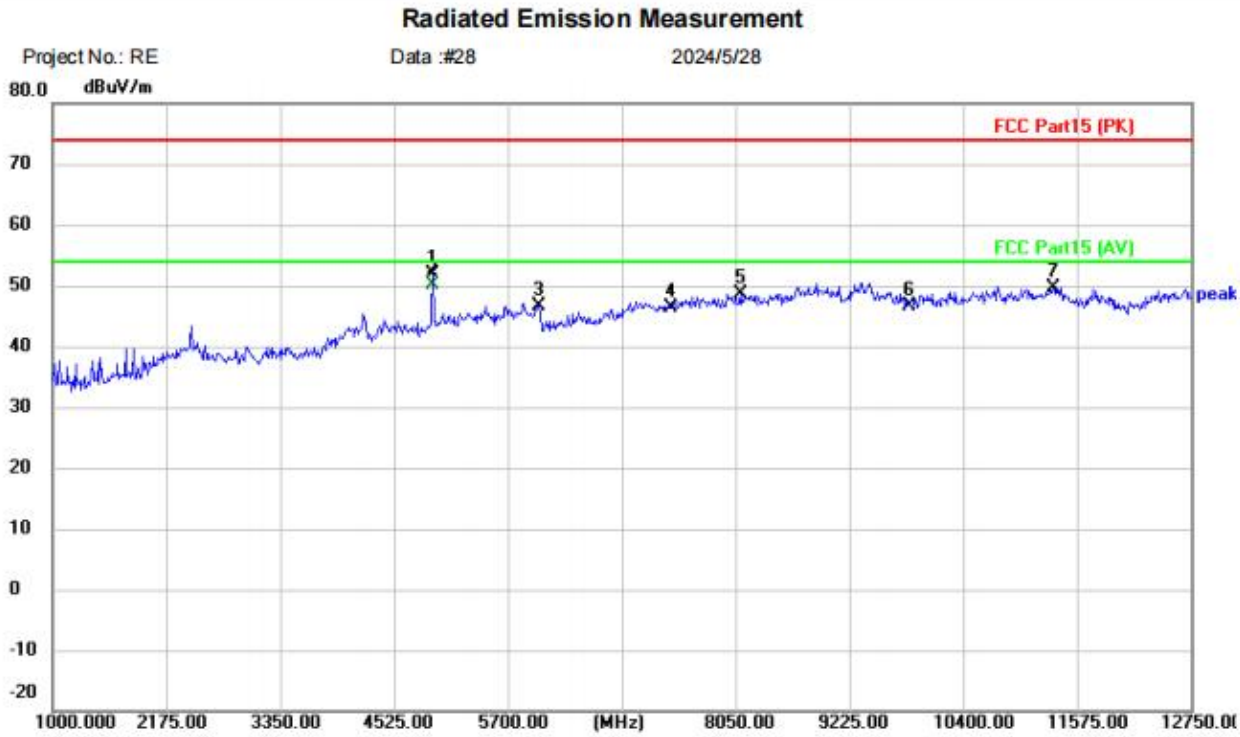
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.500	47.20	6.10	53.30	74.00	-20.70	peak	
2	*	4924.500	44.13	6.10	50.23	54.00	-3.77	AVG	
3		5970.250	37.99	8.72	46.71	74.00	-27.29	peak	
4		7386.000	37.84	9.37	47.21	74.00	-26.79	peak	
5		8919.500	38.64	12.14	50.78	74.00	-23.22	peak	
6		9848.000	34.53	12.31	46.84	74.00	-27.16	peak	
7		11316.50	37.62	12.69	50.31	74.00	-23.69	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



Site
Polarization: *Vertical*
Temperature: (C)
Limit: FCC Part15 (PK)
Power:
Humidity: %RH
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2462
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.500	45.70	6.10	51.80	74.00	-22.20	peak	
2	*	4924.500	44.10	6.10	50.20	54.00	-3.80	AVG	
3		6017.250	41.07	5.63	46.70	74.00	-27.30	peak	
4		7386.000	37.08	9.37	46.45	74.00	-27.55	peak	
5		8097.000	38.85	9.88	48.73	74.00	-25.27	peak	
6		9848.000	34.35	12.31	46.66	74.00	-27.34	peak	
7		11328.25	37.07	12.67	49.74	74.00	-24.26	peak	

Test Result: Pass

6.9 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Limit

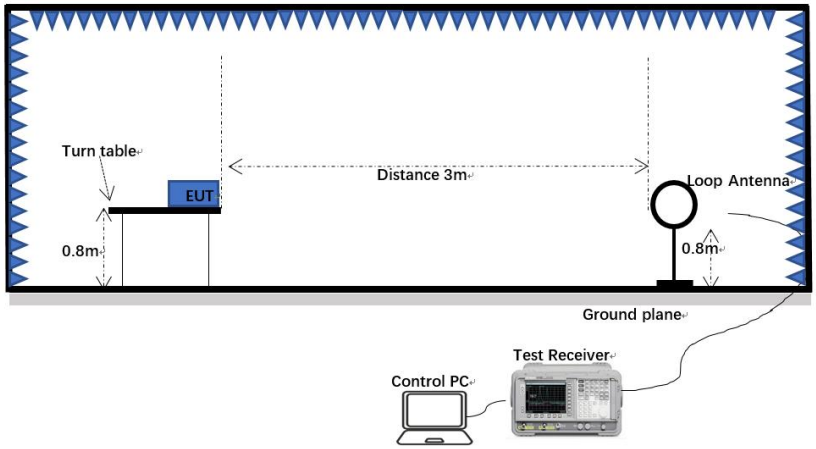
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

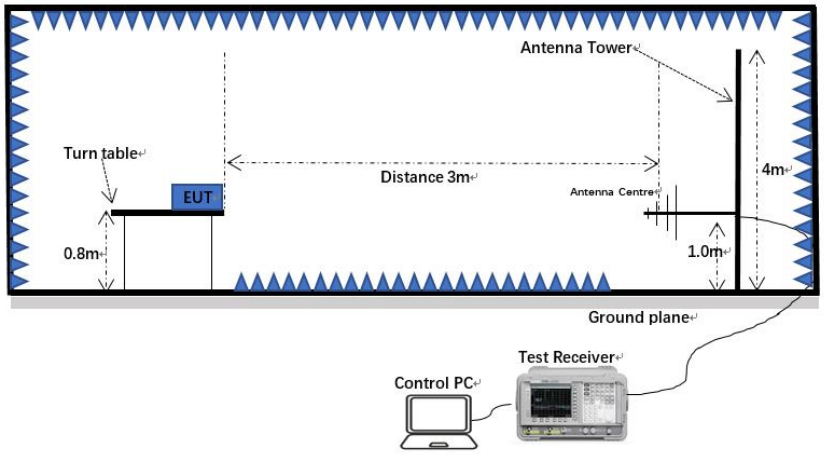
BlueAsia

6.9.2 Test setup

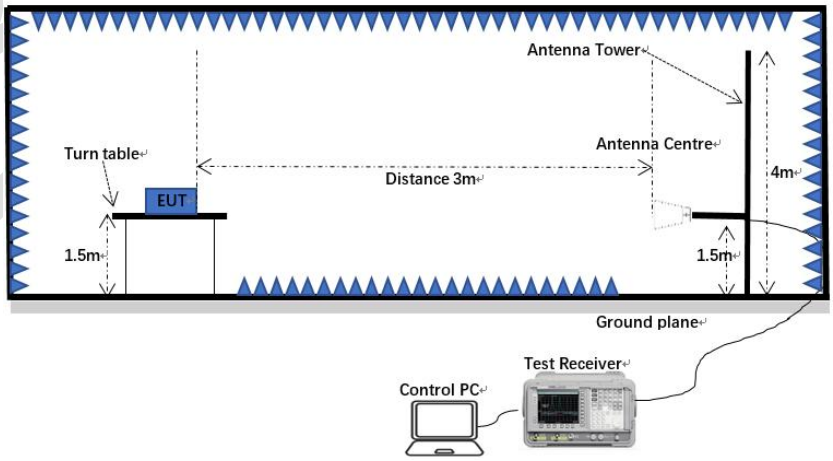
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.9.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

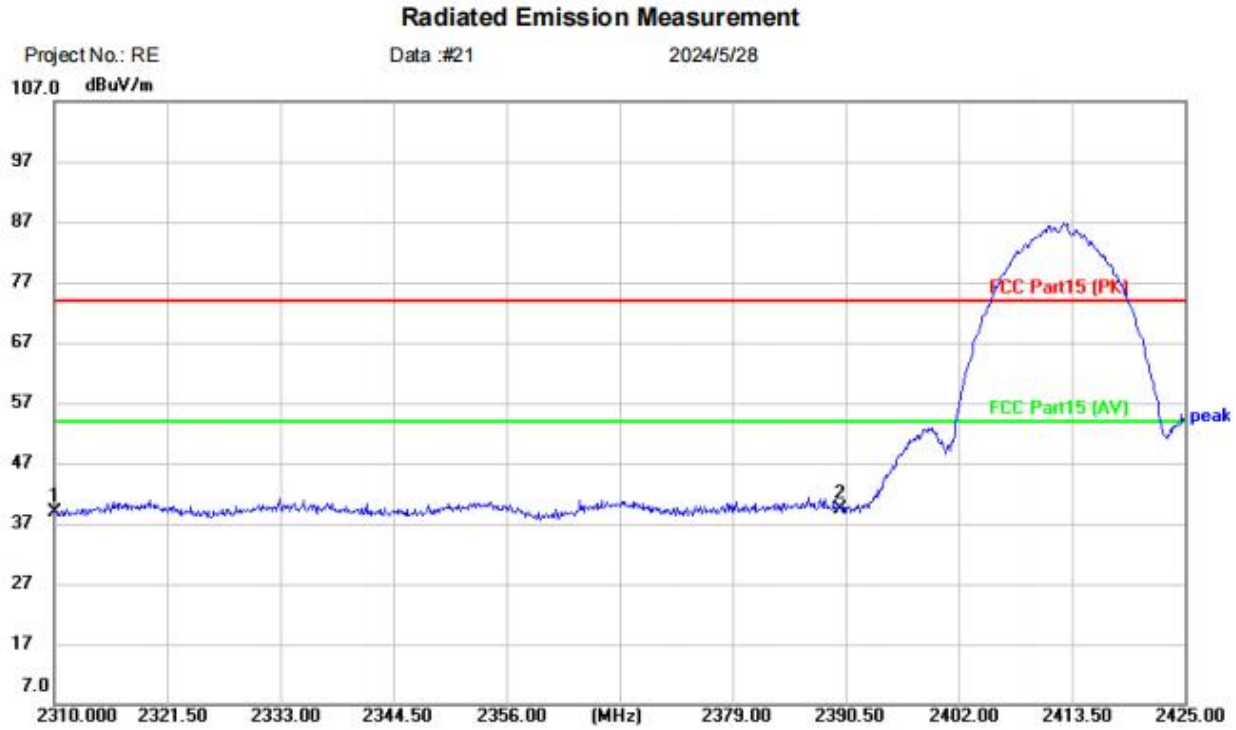
i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.9.4 Test data

[Test mode: TX B low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2412
Note:

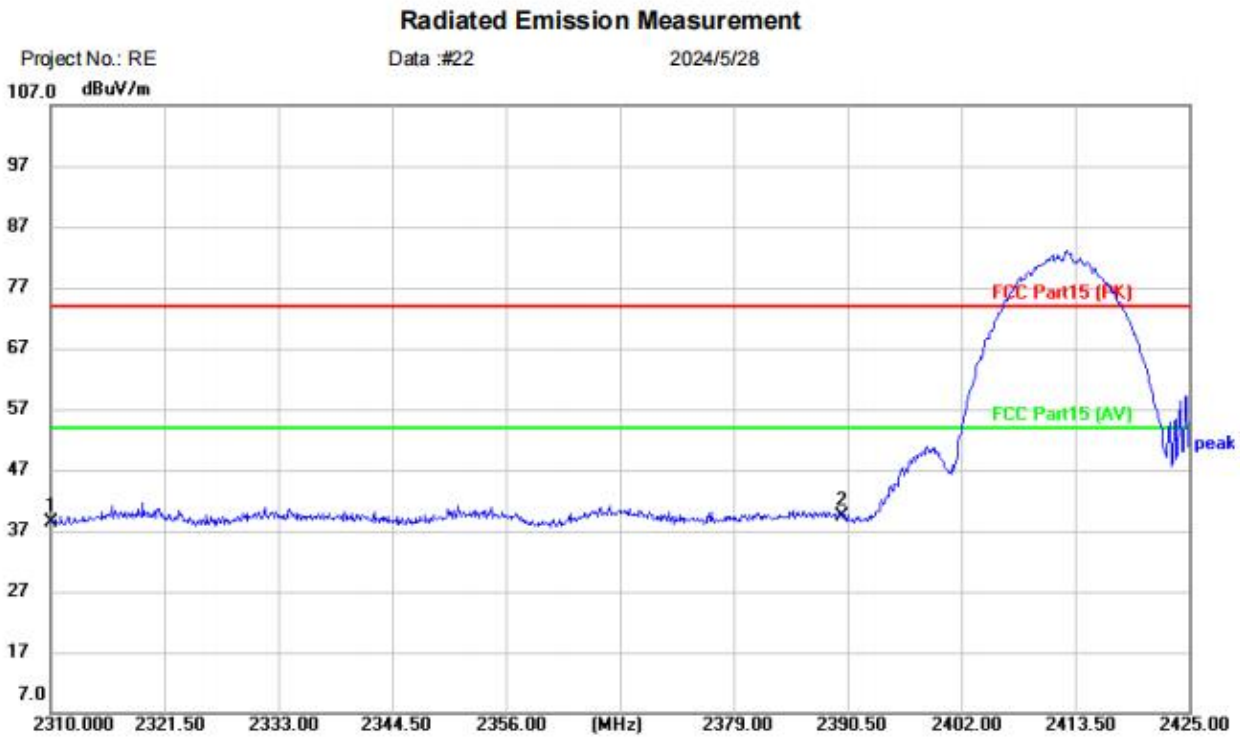
Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.80	-2.89	38.91	74.00	-35.09	peak	
2	*	2390.000	42.10	-2.70	39.40	74.00	-34.60	peak	

Test Result: Pass

[Test mode:TX B low channel]; [Polarity: Vertical]

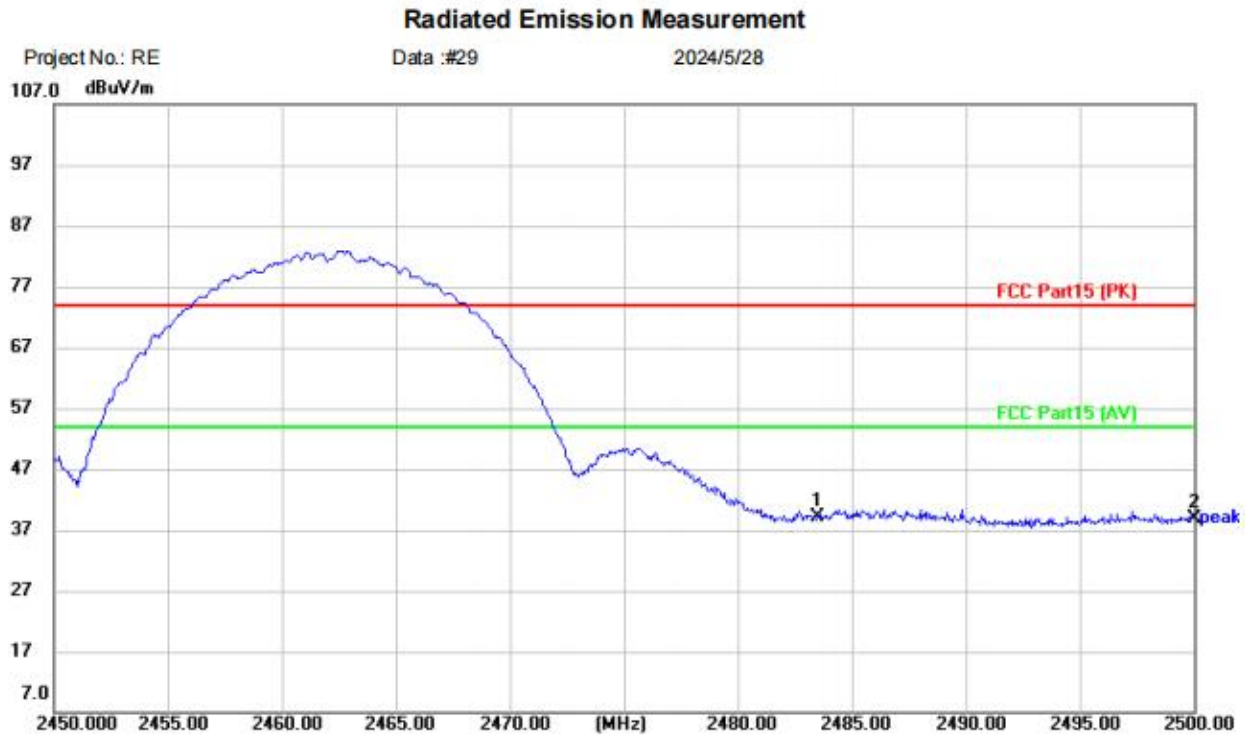


Site
Polarization: *Vertical*
Temperature: (C)
Limit: FCC Part15 (PK)
Power:
Humidity: %RH
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2412
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.38	-2.89	38.49	74.00	-35.51	peak	
2	*	2390.000	42.13	-2.70	39.43	74.00	-34.57	peak	

Test Result: Pass

[Test mode: TX B High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2462
Note:

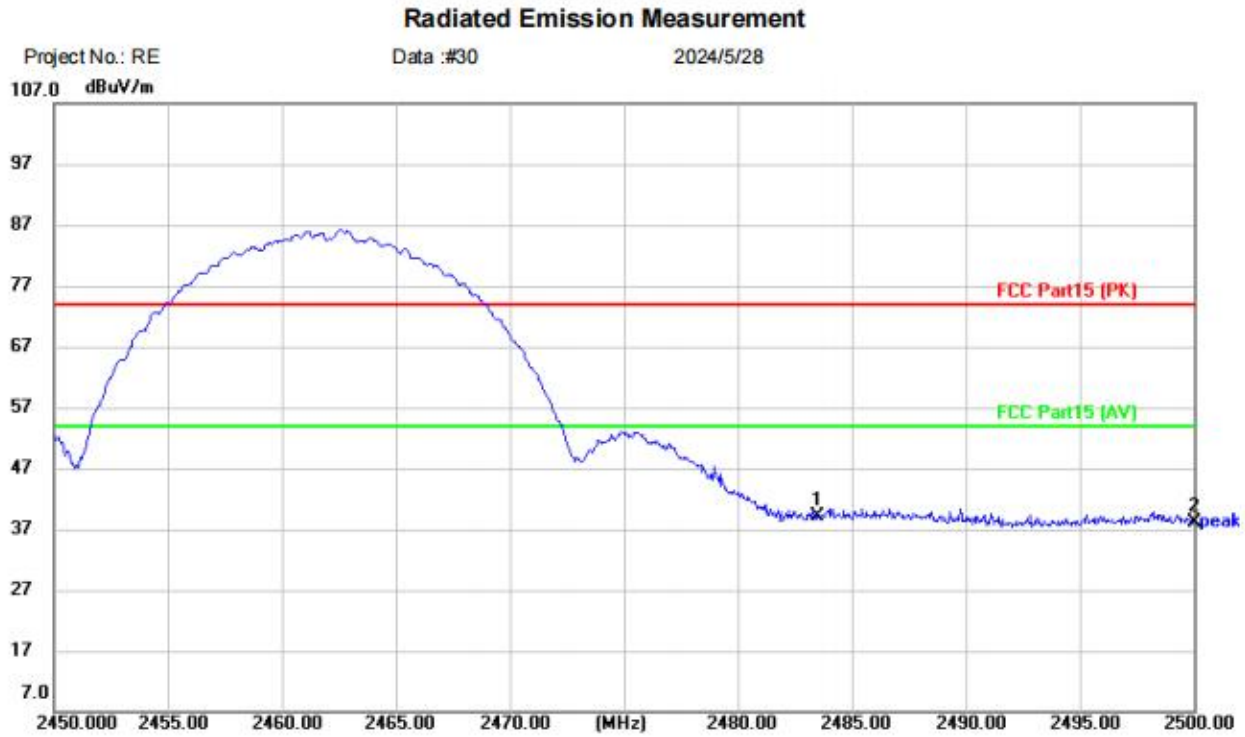
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	42.16	-2.91	39.25	74.00	-34.75	peak	
2		2500.000	41.86	-3.00	38.86	74.00	-35.14	peak	

Test Result: Pass

[Test mode:TX B High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11B-TX-2462
Note:

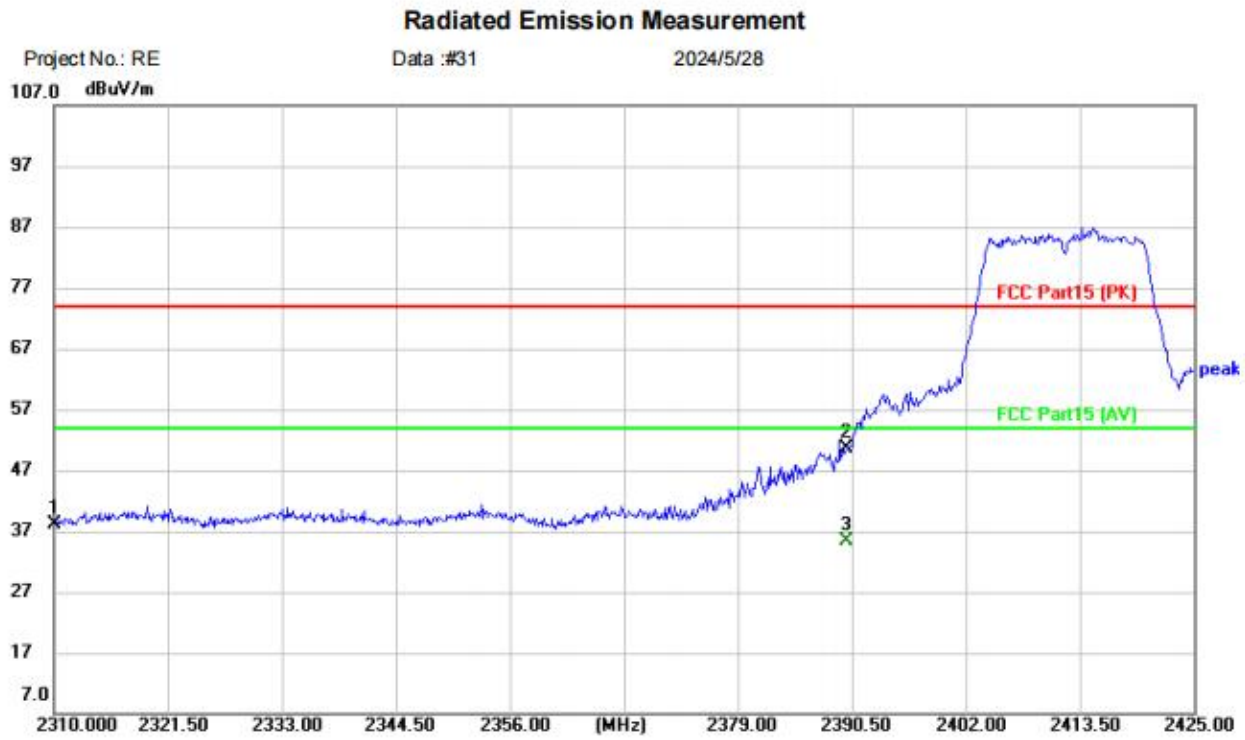
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	42.06	-2.91	39.15	74.00	-34.85	peak	
2		2500.000	41.22	-3.00	38.22	74.00	-35.78	peak	

Test Result: Pass

[Test mode: TX G low channel]; [Polarity: Horizontal]

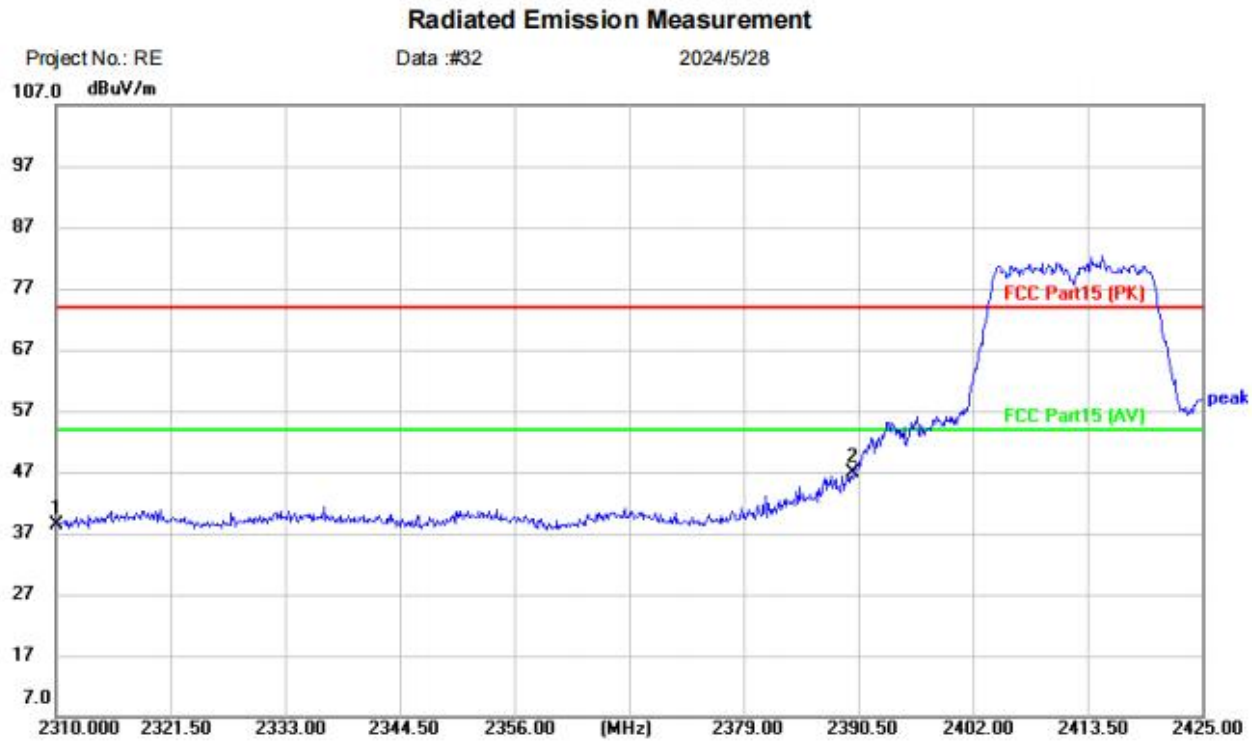


Site
Polarization: ***Horizontal***
Temperature: (C)
Limit: FCC Part15 (PK)
Power:
Humidity: %RH
EUT:
M/N:
Mode: 2.4Gwifi-11G-TX-2412
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.14	-2.89	38.25	74.00	-35.75	peak	
2		2390.000	53.35	-2.70	50.65	74.00	-23.35	peak	
3	*	2390.000	37.99	-2.70	35.29	54.00	-18.71	AVG	

Test Result: Pass

[Test mode:TX G low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11G-TX-2412
Note:

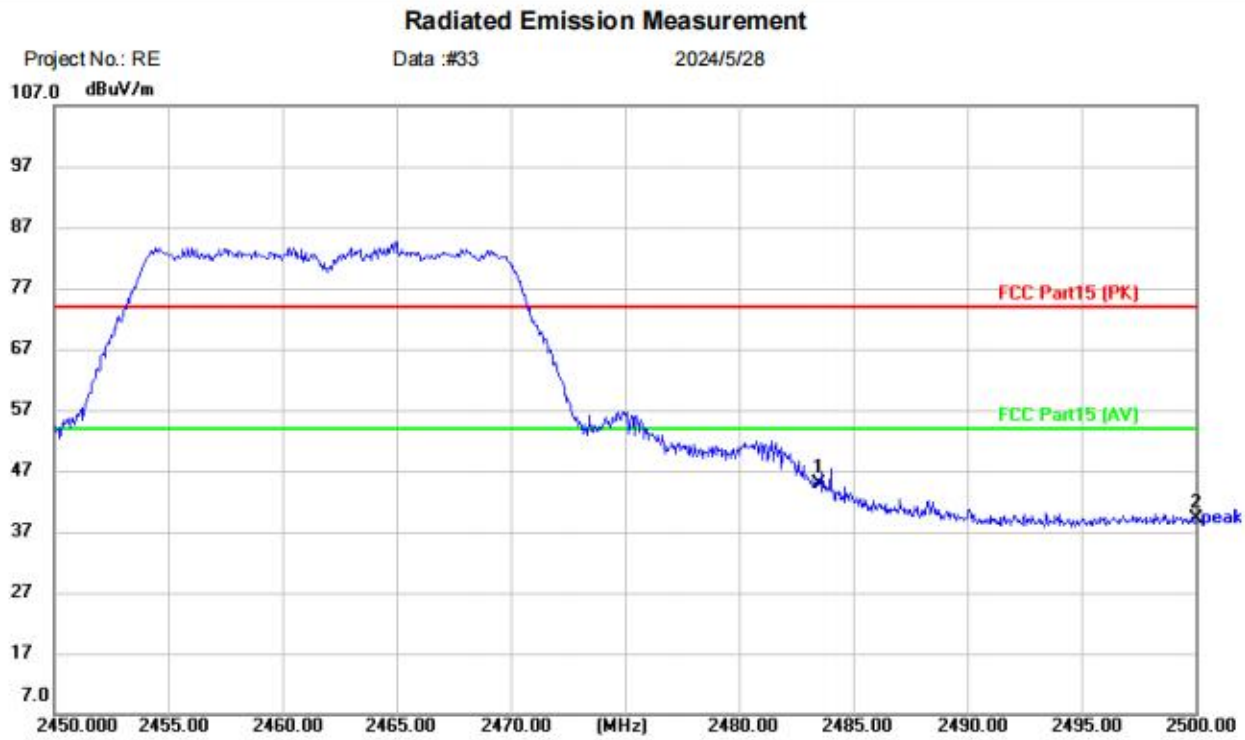
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.18	-2.89	38.29	74.00	-35.71	peak	
2	*	2390.000	49.69	-2.70	46.99	74.00	-27.01	peak	

Test Result: Pass

[Test mode: TX G High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11G-TX-2462
Note:

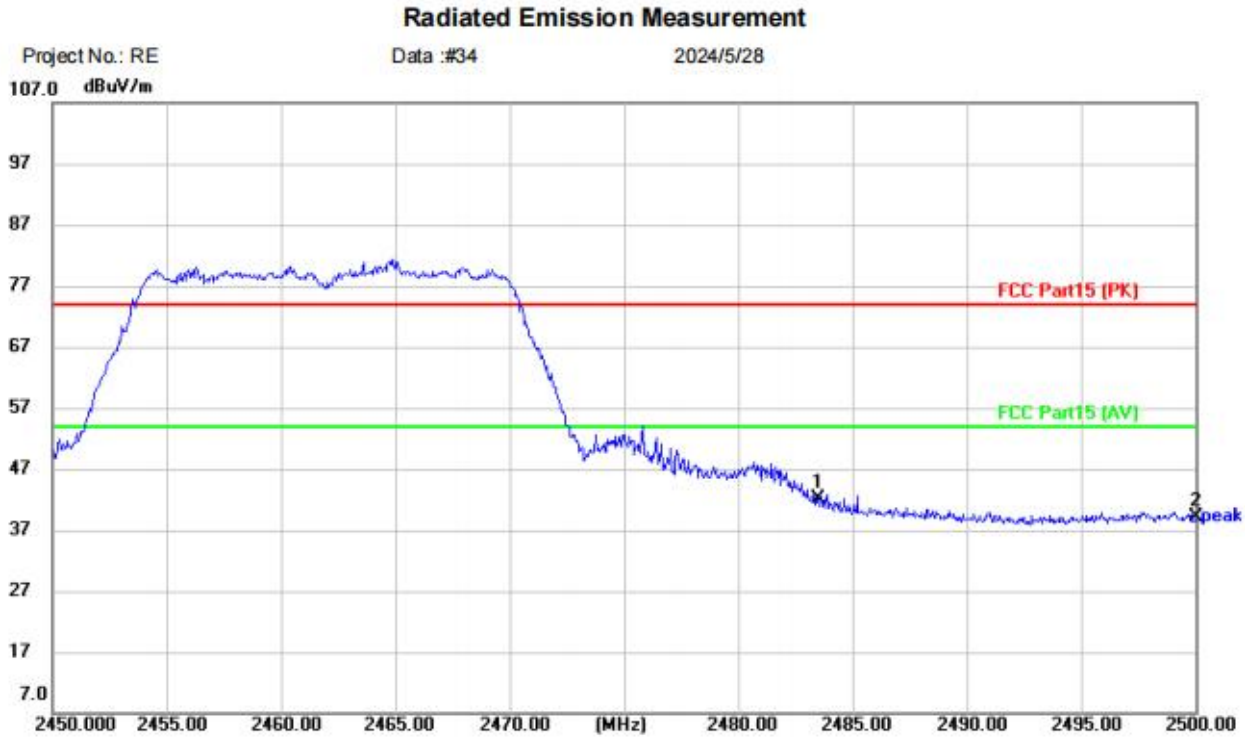
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	47.79	-2.91	44.88	74.00	-29.12	peak	
2		2500.000	42.02	-3.00	39.02	74.00	-34.98	peak	

Test Result: Pass

[Test mode:TX G High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11G-TX-2462
Note:

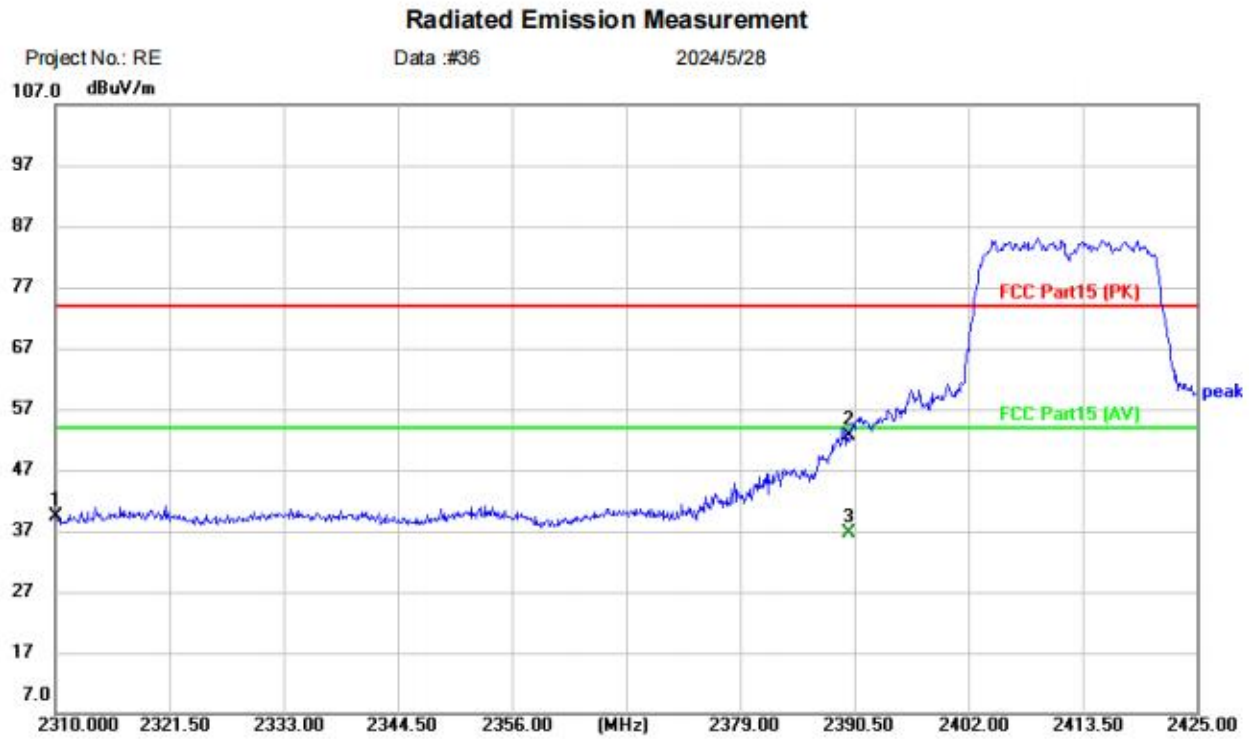
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	45.03	-2.91	42.12	74.00	-31.88	peak	
2		2500.000	42.01	-3.00	39.01	74.00	-34.99	peak	

Test Result: Pass

[Test mode: TX N20 low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11N20-TX-2412
Note:

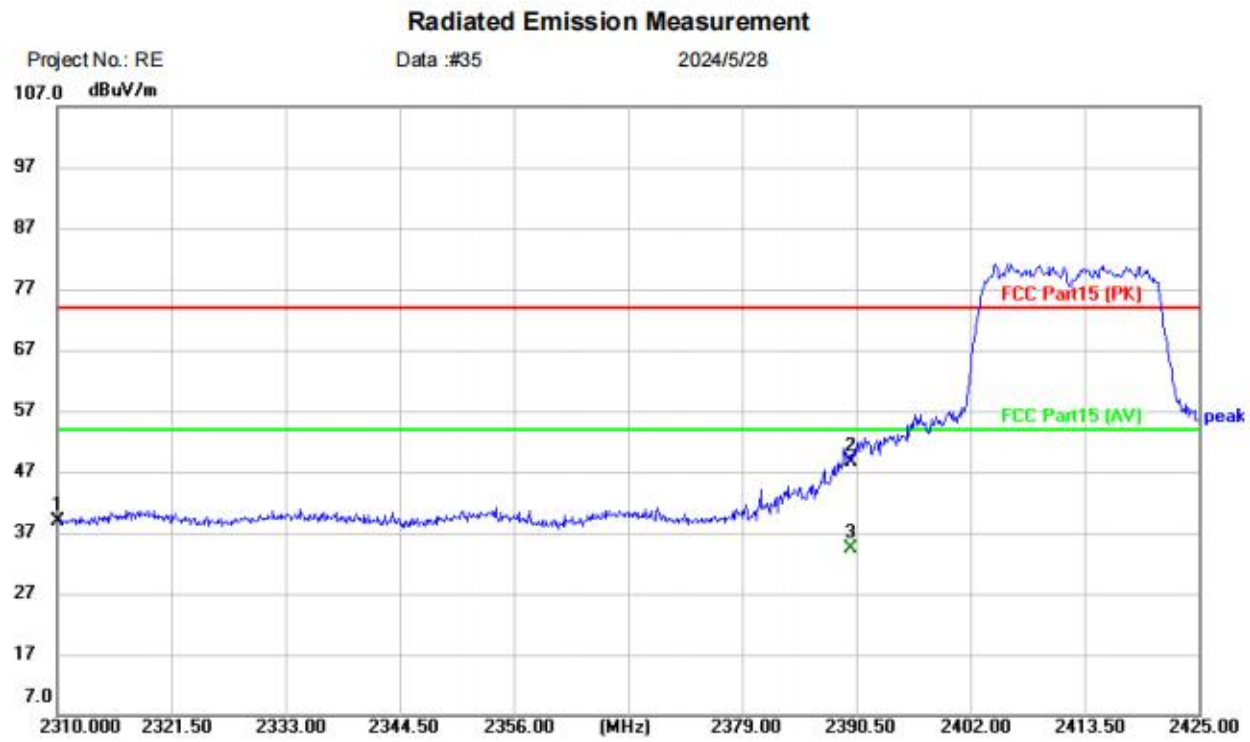
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	42.19	-2.89	39.30	74.00	-34.70	peak	
2		2390.000	55.32	-2.70	52.62	74.00	-21.38	peak	
3	*	2390.000	39.45	-2.70	36.75	54.00	-17.25	AVG	

Test Result: Pass

[Test mode:TX N20 low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11N20-TX-2412
Note:

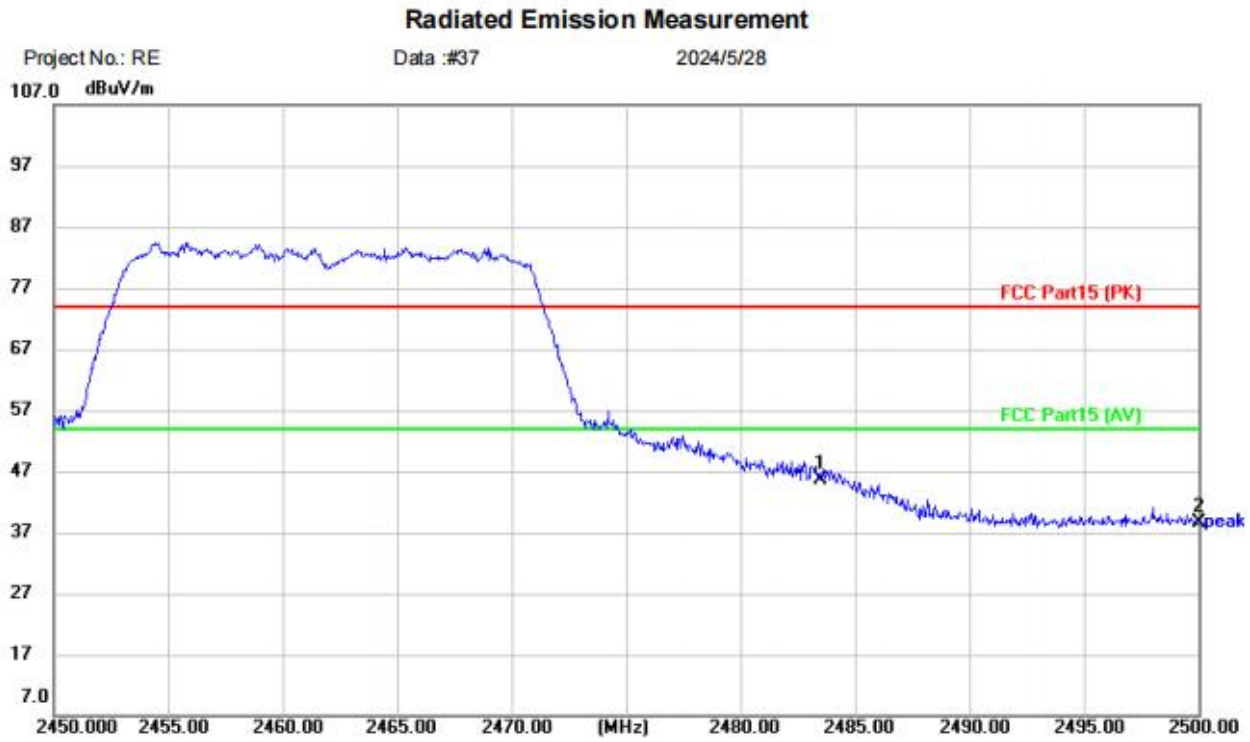
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.66	-2.89	38.77	74.00	-35.23	peak	
2		2390.000	51.28	-2.70	48.58	74.00	-25.42	peak	
3	*	2390.000	37.15	-2.70	34.45	54.00	-19.55	AVG	

Test Result: Pass

[Test mode: TX N20 High channel]; [Polarity: Horizontal]

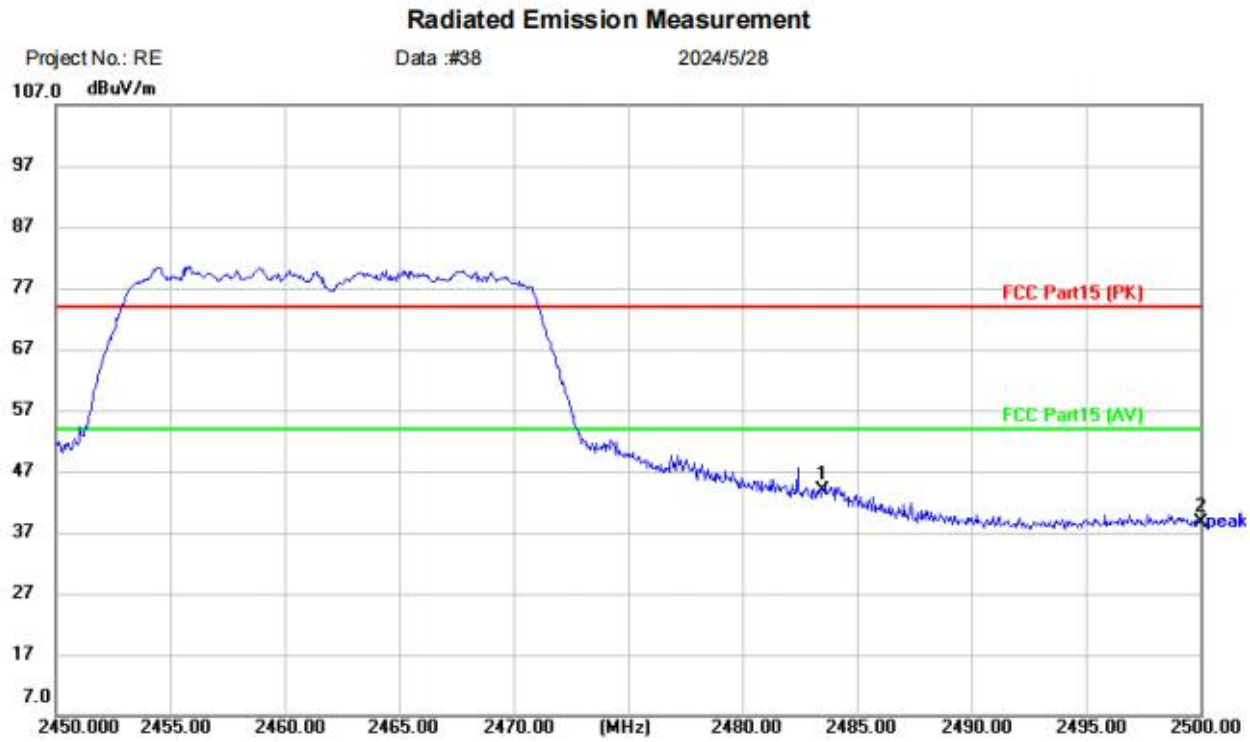


Site
Polarization: *Horizontal*
Temperature: (C)
Limit: FCC Part15 (PK)
Power:
Humidity: %RH
EUT:
M/N:
Mode: 2.4Gwifi-11N20-TX-2462
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	48.59	-2.91	45.68	74.00	-28.32	peak	
2		2500.000	41.51	-3.00	38.51	74.00	-35.49	peak	

Test Result: Pass

[Test mode:TX N20 High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11N20-TX-2462
Note:

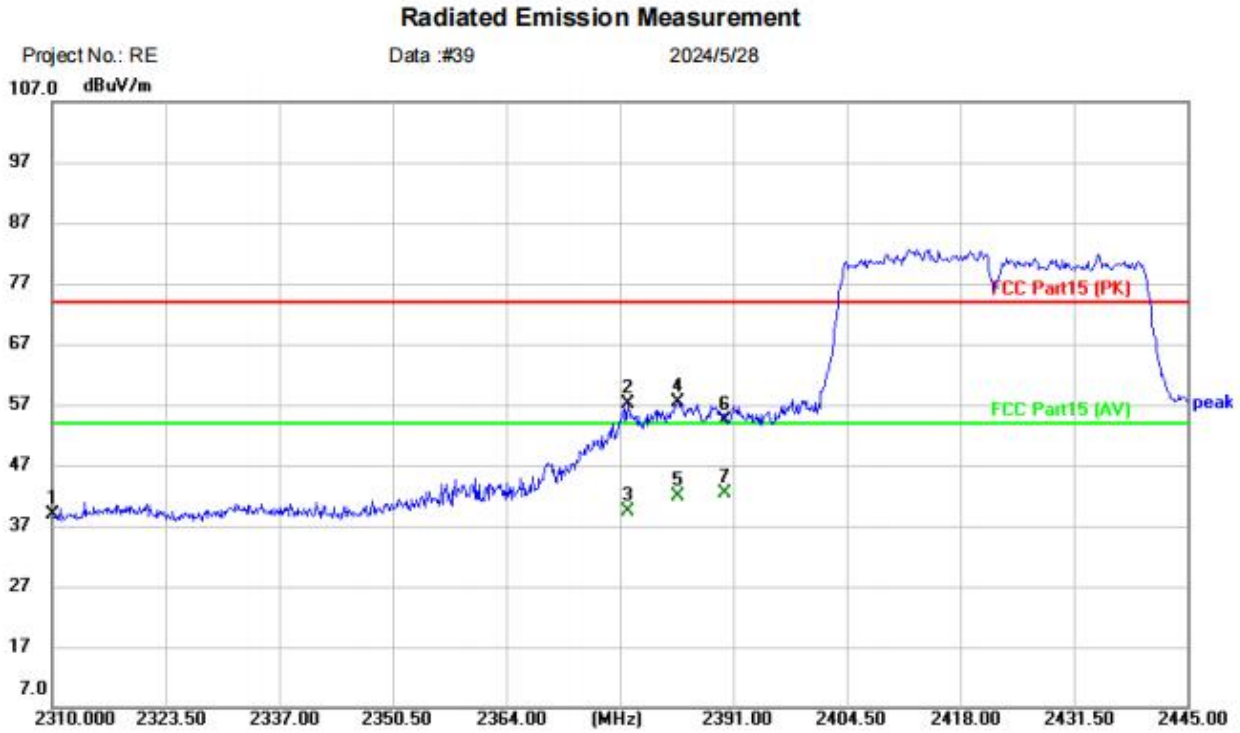
Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	46.80	-2.91	43.89	74.00	-30.11	peak	
2		2500.000	41.68	-3.00	38.68	74.00	-35.32	peak	

Test Result: Pass

[Test mode: TX N40 low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11N40-TX-2422
Note:

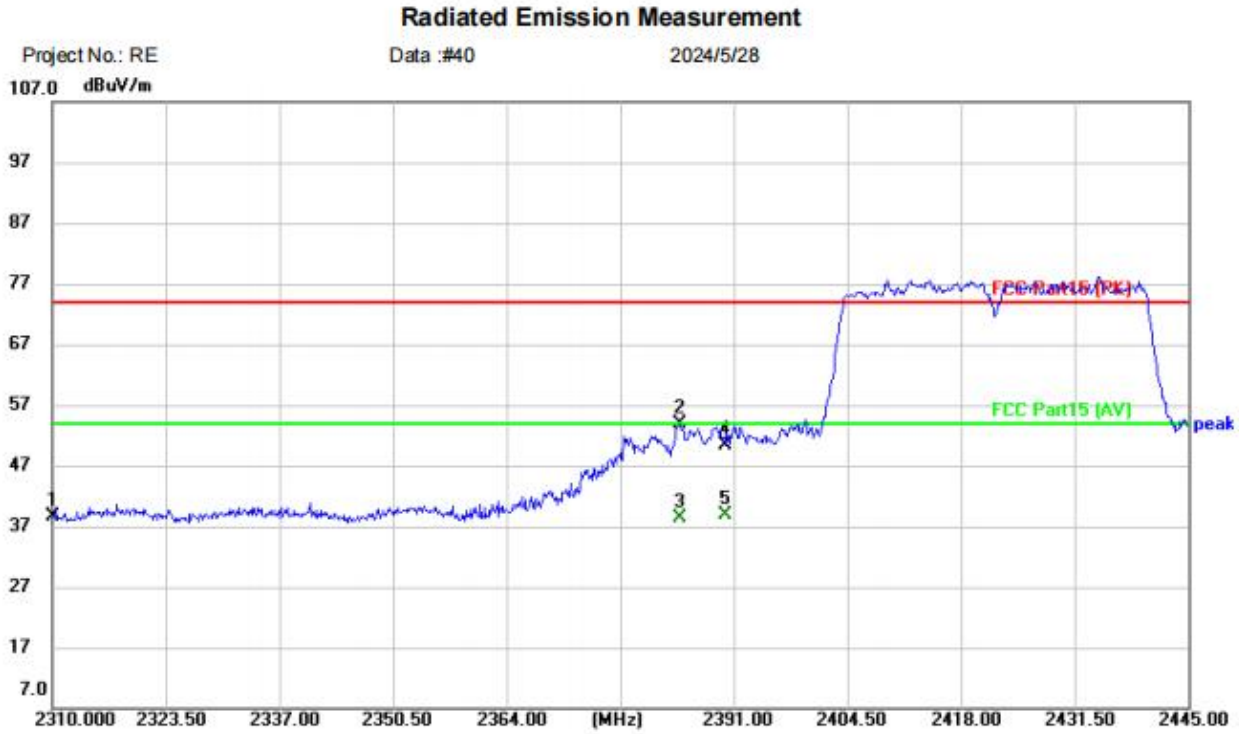
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.89	-2.89	39.00	74.00	-35.00	peak	
2		2378.445	59.74	-2.73	57.01	74.00	-16.99	peak	
3		2378.445	42.08	-2.73	39.35	54.00	-14.65	AVG	
4		2384.385	60.05	-2.70	57.35	74.00	-16.65	peak	
5		2384.385	44.56	-2.70	41.86	54.00	-12.14	AVG	
6		2390.000	56.98	-2.70	54.28	74.00	-19.72	peak	
7	*	2390.000	45.20	-2.70	42.50	54.00	-11.50	AVG	

Test Result: Pass

[Test mode:TX N40 low channel]; [Polarity: Vertical]

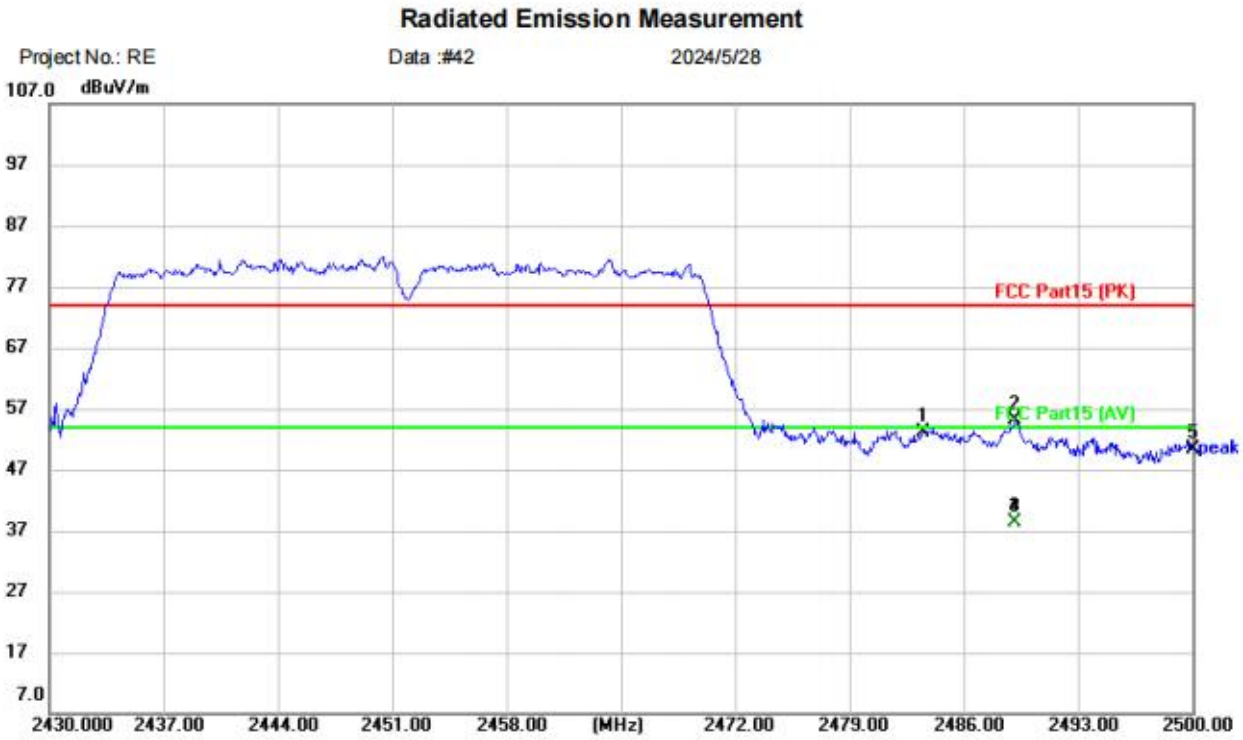


Site
Polarization: *Vertical*
Temperature: (C)
Limit: FCC Part15 (PK)
Power:
Humidity: %RH
EUT:
M/N:
Mode: 2.4Gwifi-11N40-TX-2422
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.46	-2.89	38.57	74.00	-35.43	peak	
2		2384.655	56.49	-2.70	53.79	74.00	-20.21	peak	
3		2384.655	41.06	-2.70	38.36	54.00	-15.64	AVG	
4		2390.000	53.20	-2.70	50.50	74.00	-23.50	peak	
5	*	2390.000	41.58	-2.70	38.88	54.00	-15.12	AVG	

Test Result: Pass

[Test mode: TX N40 High channel]; [Polarity: Horizontal]

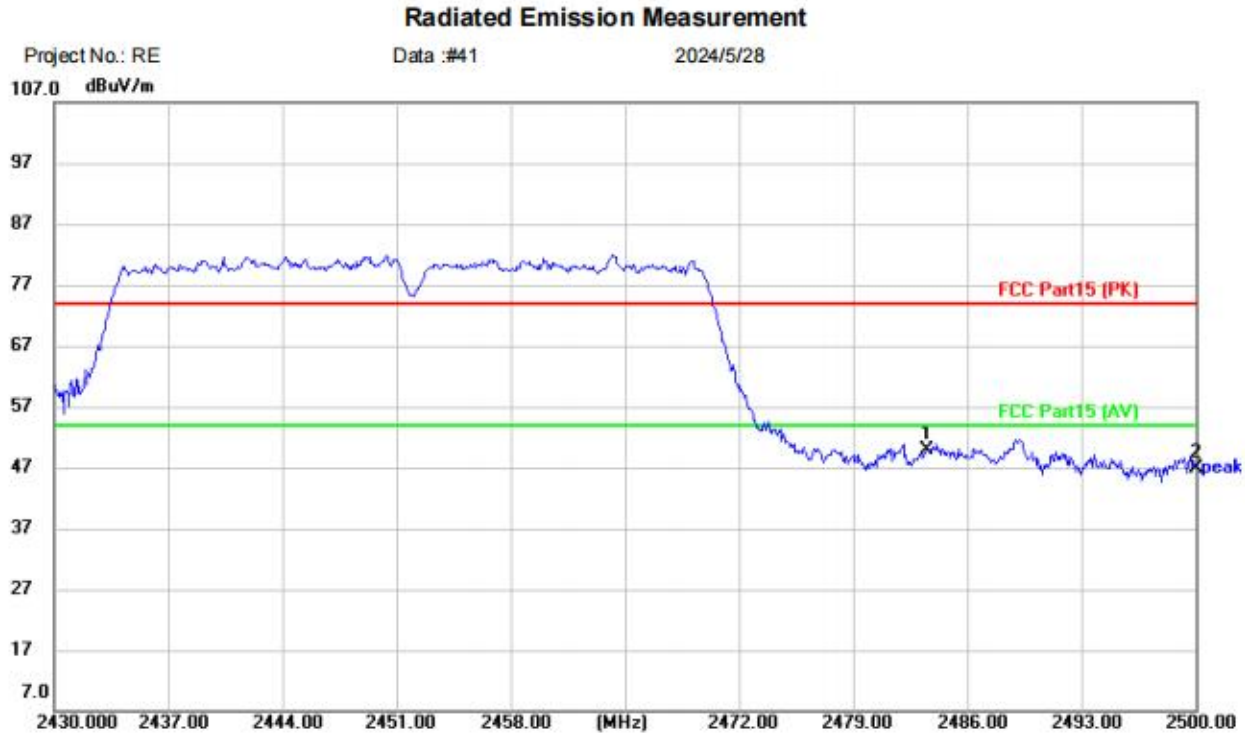


Site
Polarization: ***Horizontal***
Temperature: (C)
Limit: FCC Part15 (PK)
Power:
Humidity: %RH
EUT:
M/N:
Mode: 2.4Gwifi-11N40-TX-2452
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	56.04	-2.91	53.13	74.00	-20.87	peak	
2		2489.150	58.06	-2.94	55.12	74.00	-18.88	peak	
3	*	2489.150	41.37	-2.94	38.43	54.00	-15.57	AVG	
4		2489.150	41.20	-2.94	38.26	54.00	-15.74	AVG	
5		2500.000	53.41	-3.00	50.41	74.00	-23.59	peak	

Test Result: Pass

[Test mode:TX N40 High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT:
M/N:
Mode: 2.4Gwifi-11N40-TX-2452
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	52.72	-2.91	49.81	74.00	-24.19	peak	
2		2500.000	49.92	-3.00	46.92	74.00	-27.08	peak	

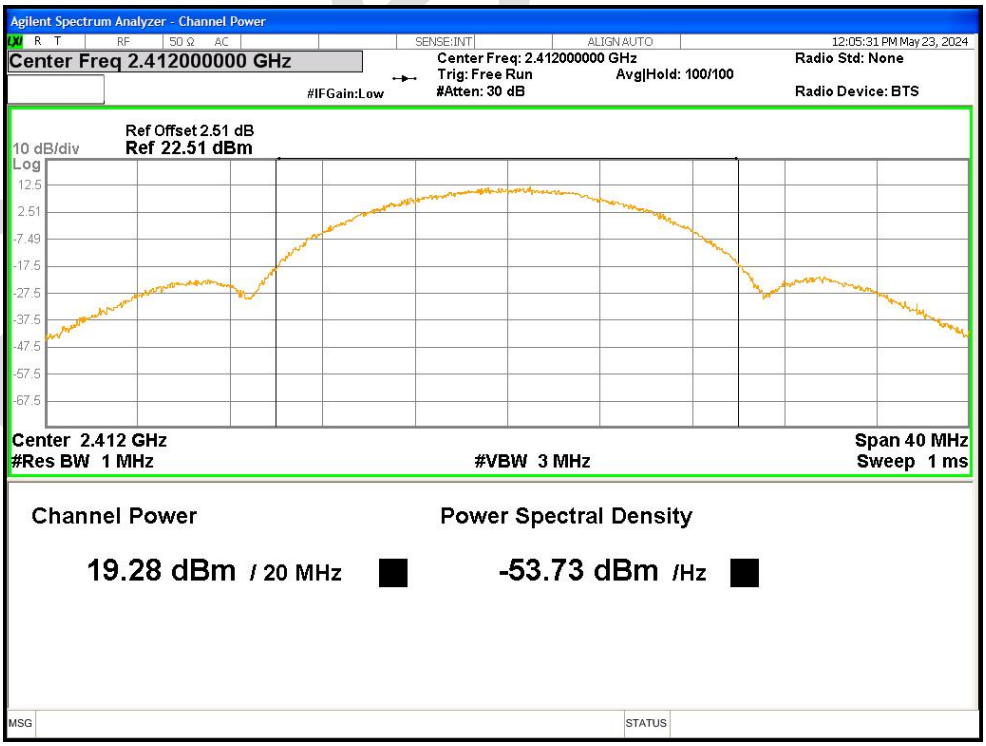
Test Result: Pass

7 Appendix A

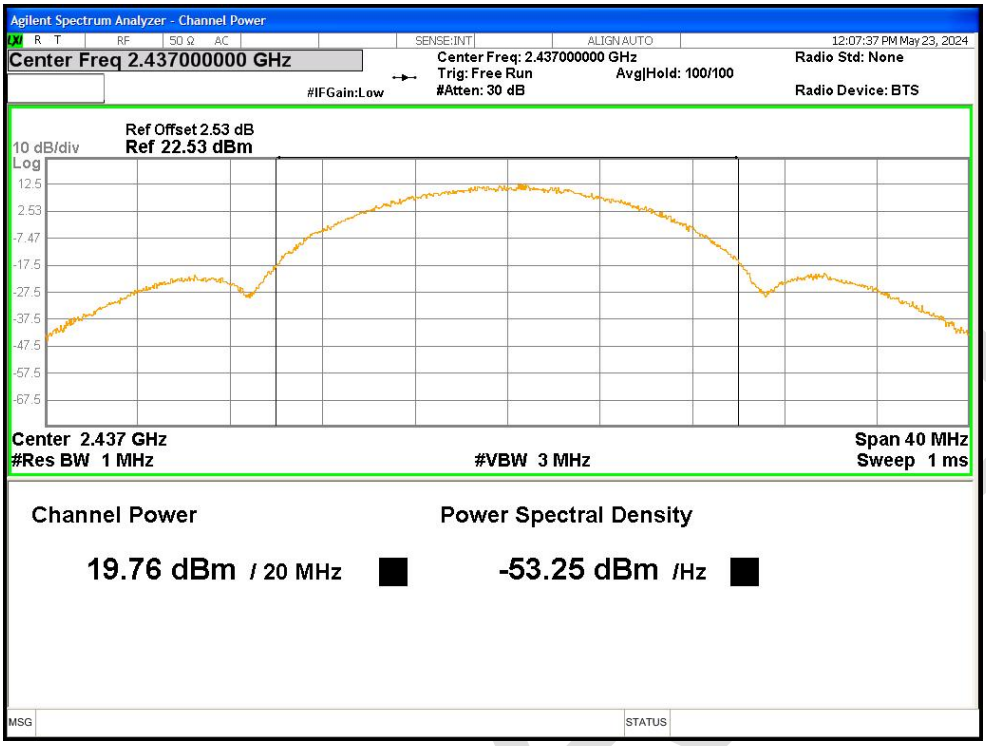
7.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	19.28	30	Pass
NVNT	b	2437	Ant1	19.761	30	Pass
NVNT	b	2462	Ant1	19.88	30	Pass
NVNT	g	2412	Ant1	17.472	30	Pass
NVNT	g	2437	Ant1	18.022	30	Pass
NVNT	g	2462	Ant1	18.143	30	Pass
NVNT	n20	2412	Ant1	17.561	30	Pass
NVNT	n20	2437	Ant1	18.022	30	Pass
NVNT	n20	2462	Ant1	18.115	30	Pass
NVNT	n40	2422	Ant1	18.24	30	Pass
NVNT	n40	2437	Ant1	18.44	30	Pass
NVNT	n40	2452	Ant1	18.544	30	Pass

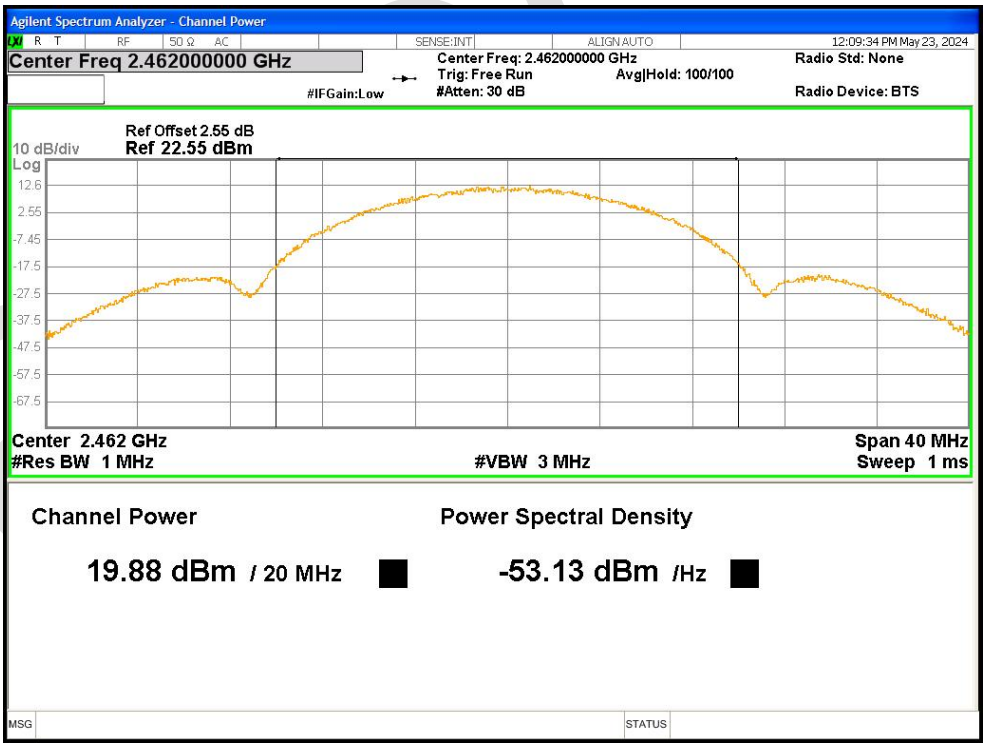
Power NVNT b 2412MHz Ant1



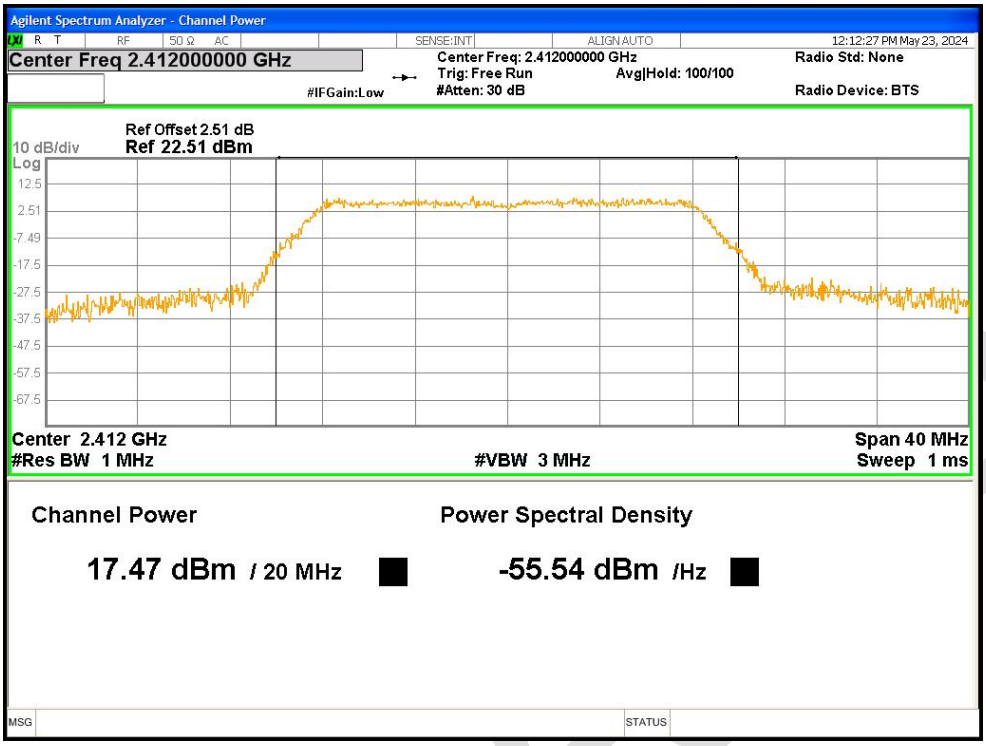
Power NVNT b 2437MHz Ant1



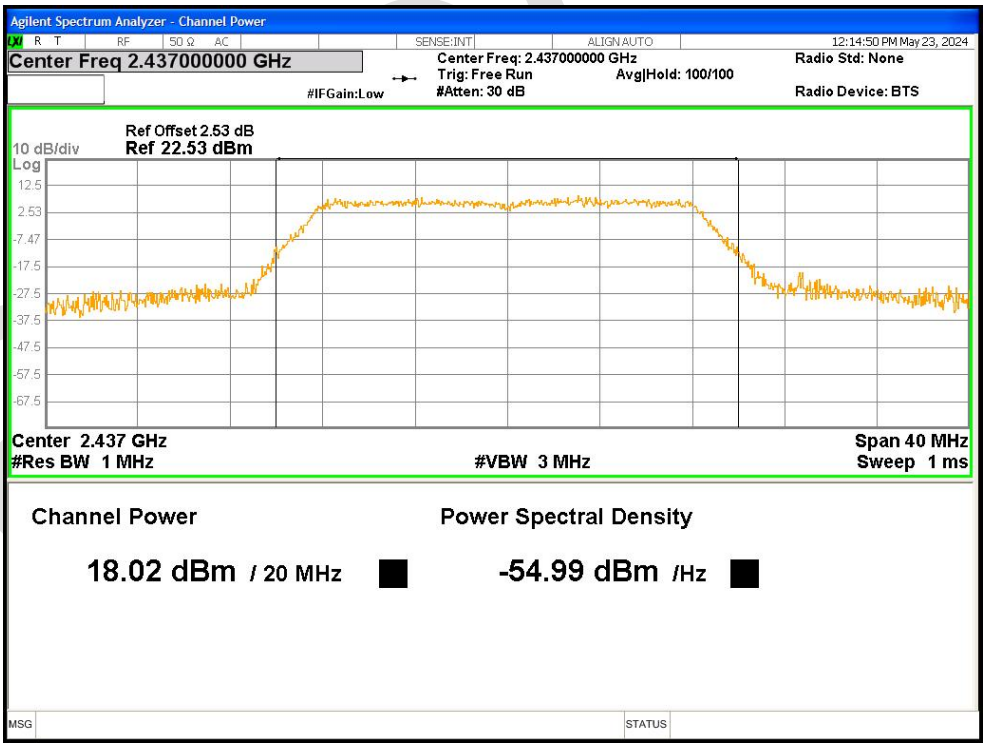
Power NVNT b 2462MHz Ant1



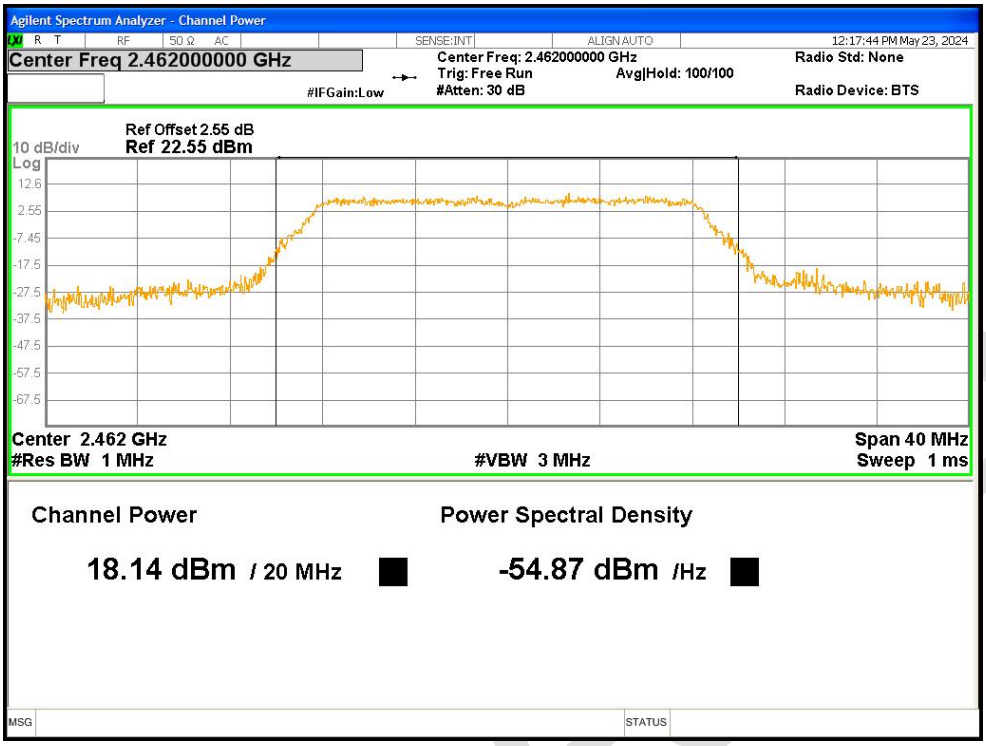
Power NVNT g 2412MHz Ant1



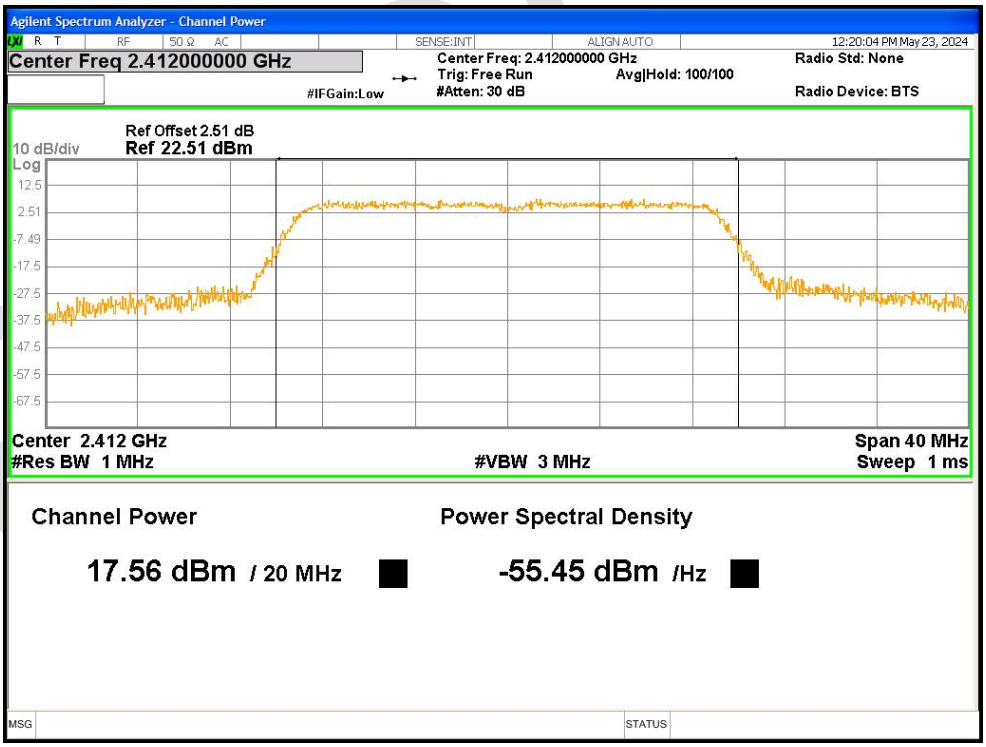
Power NVNT g 2437MHz Ant1



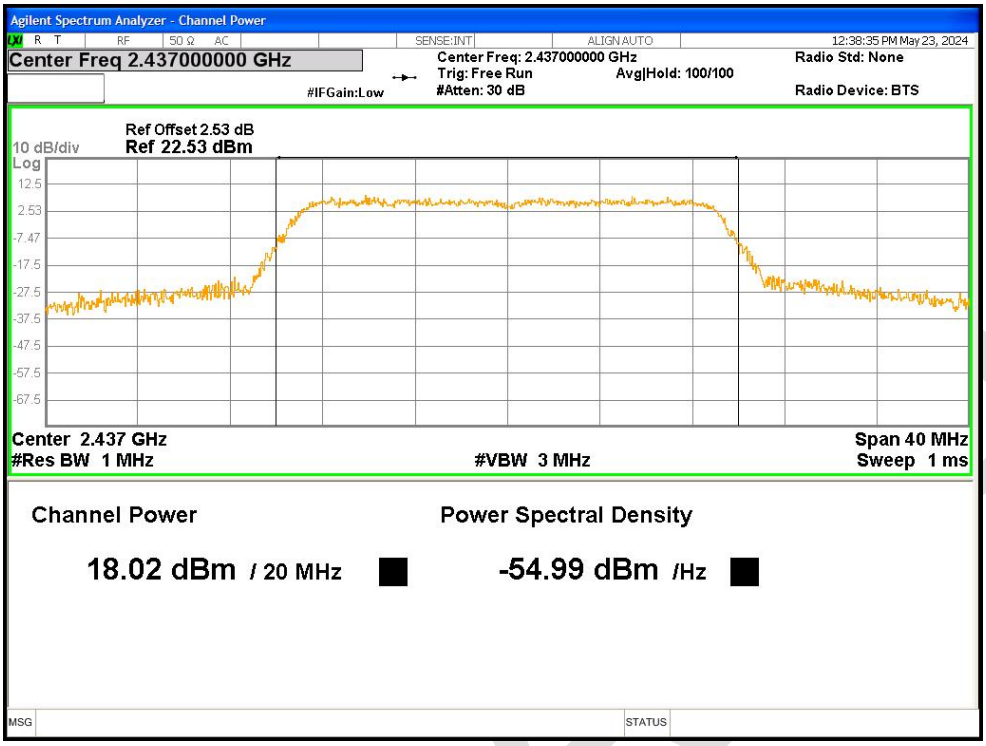
Power NVNT g 2462MHz Ant1



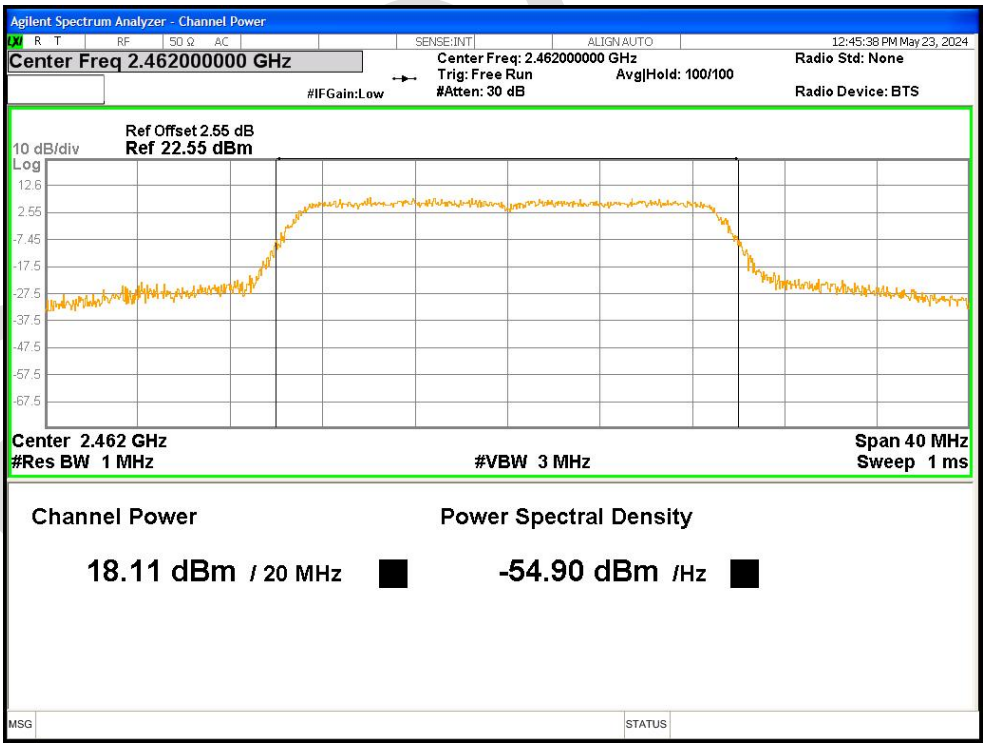
Power NVNT n20 2412MHz Ant1



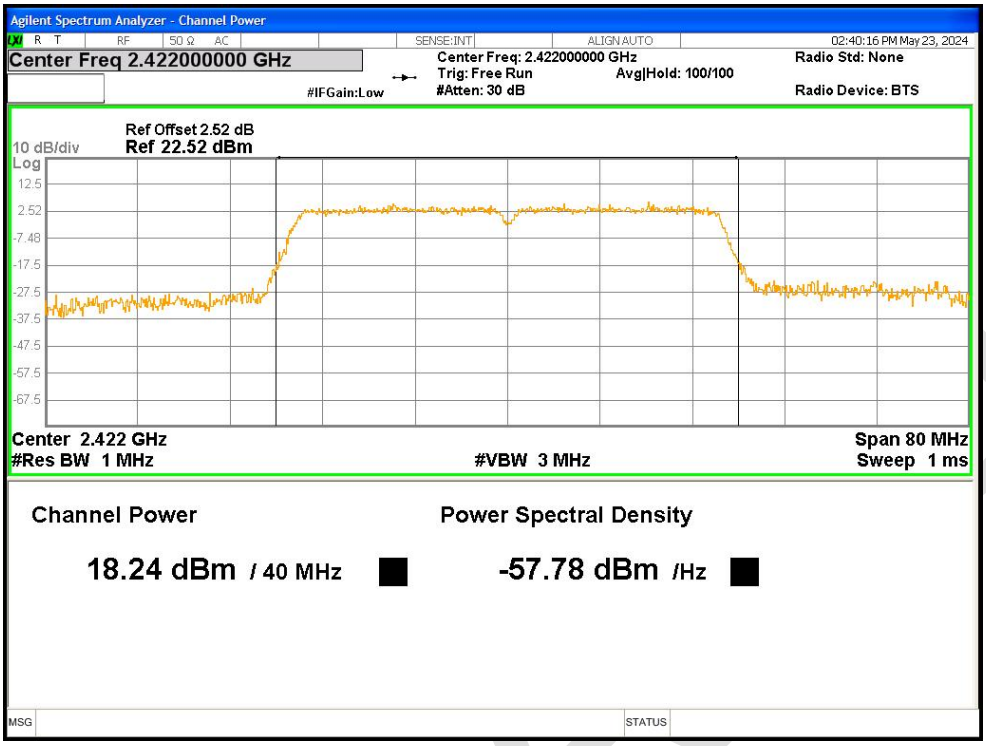
Power NVNT n20 2437MHz Ant1



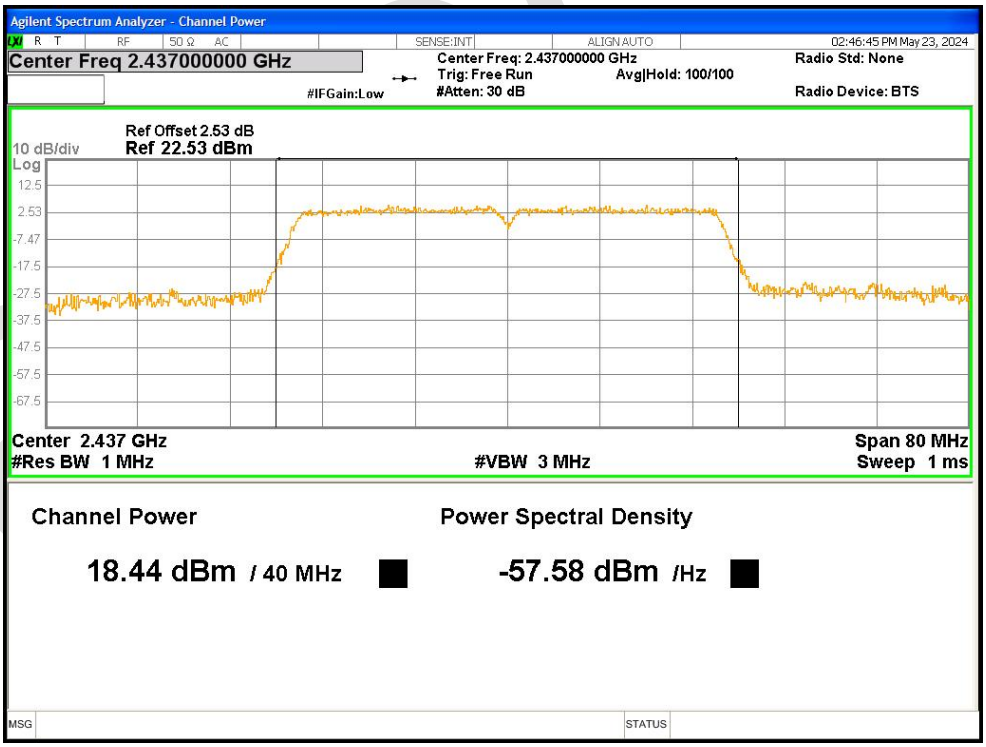
Power NVNT n20 2462MHz Ant1



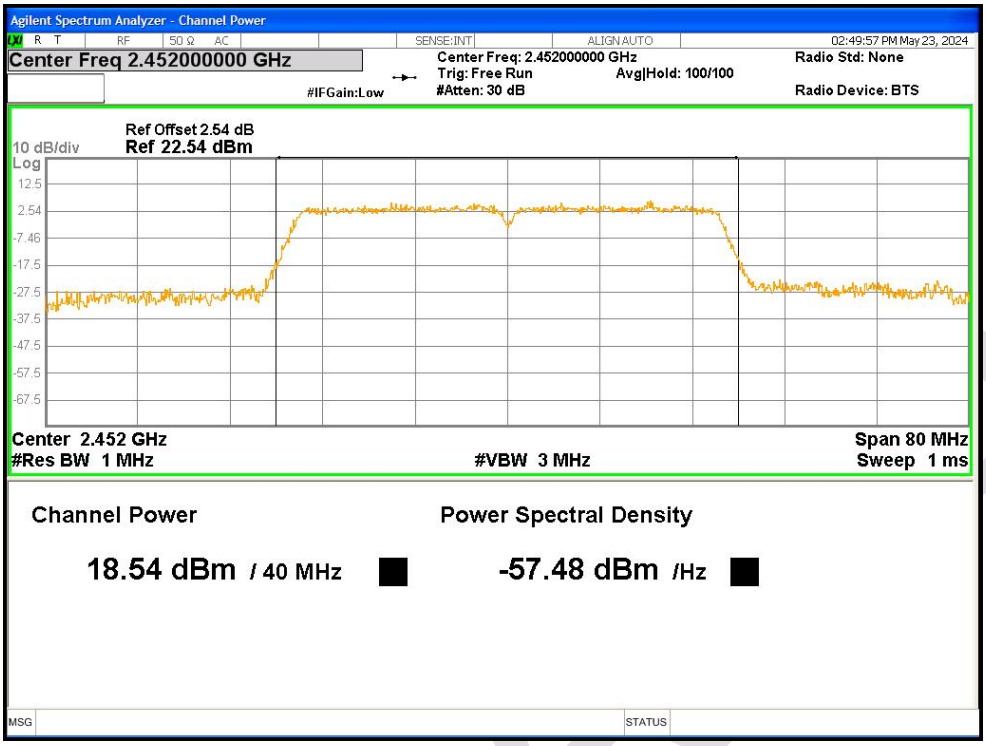
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



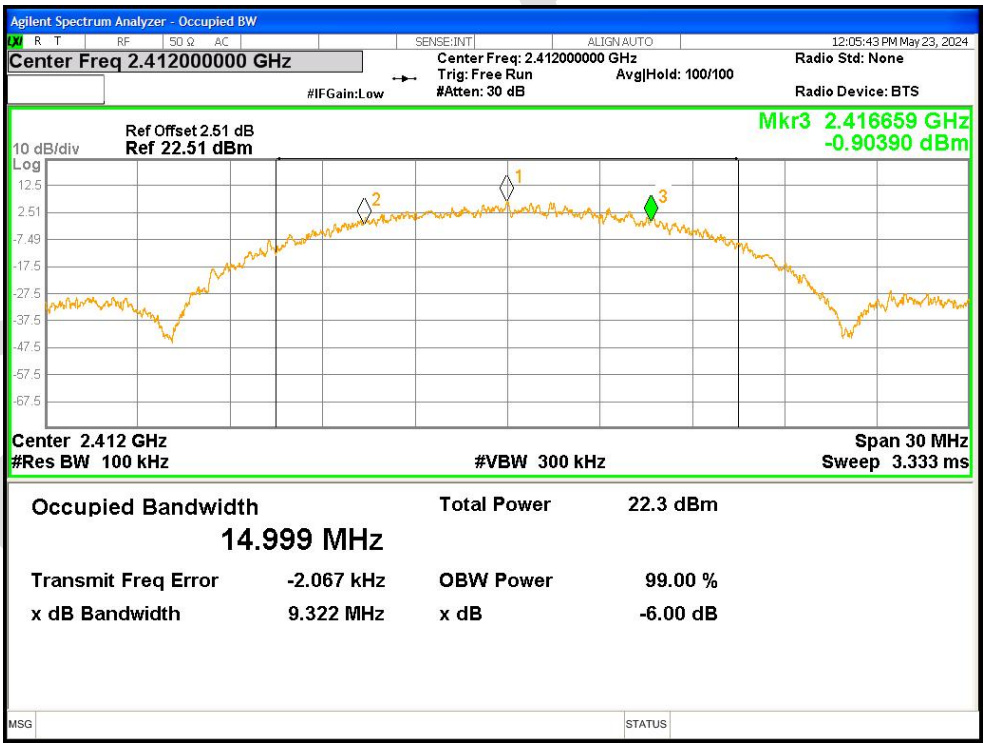
Power NVNT n40 2452MHz Ant1


Agilent Spectrum Analyzer - Channel Power
SENSE:INT
ALIGN AUTO
02:49:57 PM May 23, 2024
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 2.54 dB
10 dB/div
Ref 22.54 dBm
Log
12.5
2.54
-7.46
-17.5
-27.5
-37.5
-47.5
-57.5
-67.5
Center 2.452 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 80 MHz
Sweep 1 ms
Channel Power
18.54 dBm / 40 MHz
Power Spectral Density
-57.48 dBm /Hz
MSG
STATUS

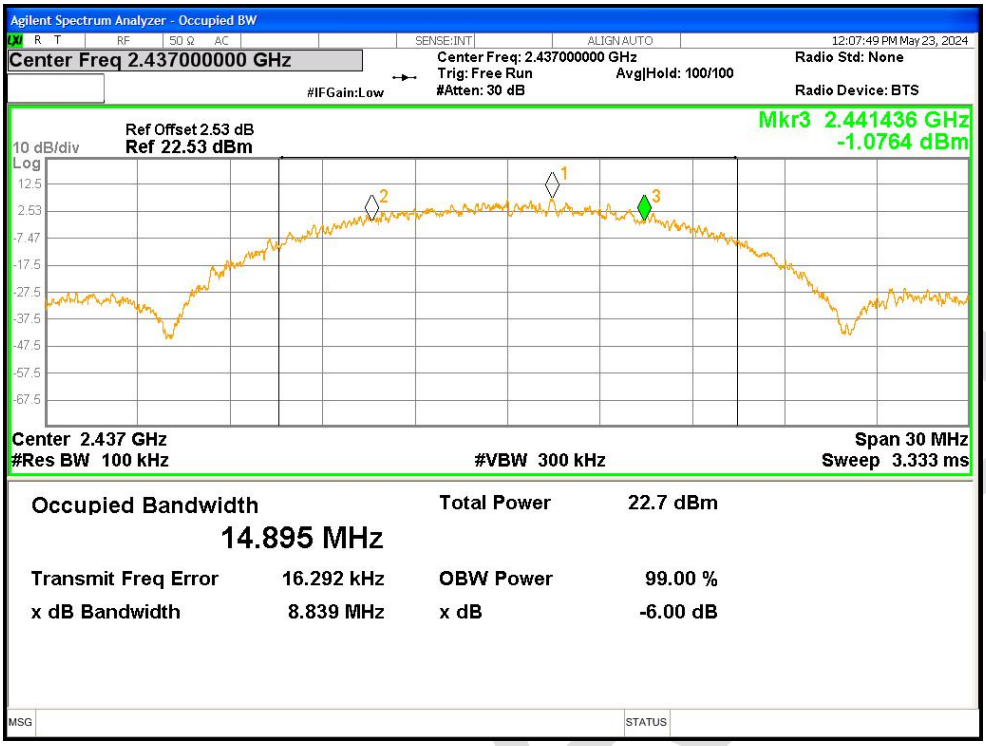
7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.322	0.5	Pass
NVNT	b	2437	Ant1	8.839	0.5	Pass
NVNT	b	2462	Ant1	9.351	0.5	Pass
NVNT	g	2412	Ant1	16.457	0.5	Pass
NVNT	g	2437	Ant1	16.458	0.5	Pass
NVNT	g	2462	Ant1	16.446	0.5	Pass
NVNT	n20	2412	Ant1	17.725	0.5	Pass
NVNT	n20	2437	Ant1	17.703	0.5	Pass
NVNT	n20	2462	Ant1	17.638	0.5	Pass
NVNT	n40	2422	Ant1	36.345	0.5	Pass
NVNT	n40	2437	Ant1	36.358	0.5	Pass
NVNT	n40	2452	Ant1	36.413	0.5	Pass

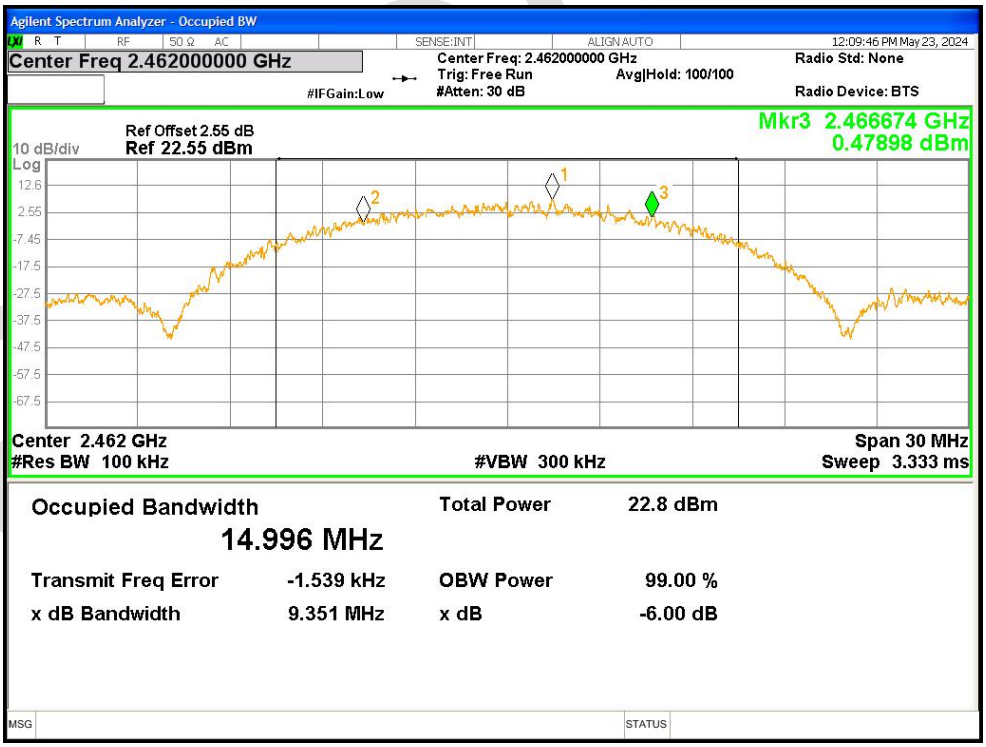
-6dB Bandwidth NVNT b 2412MHz Ant1



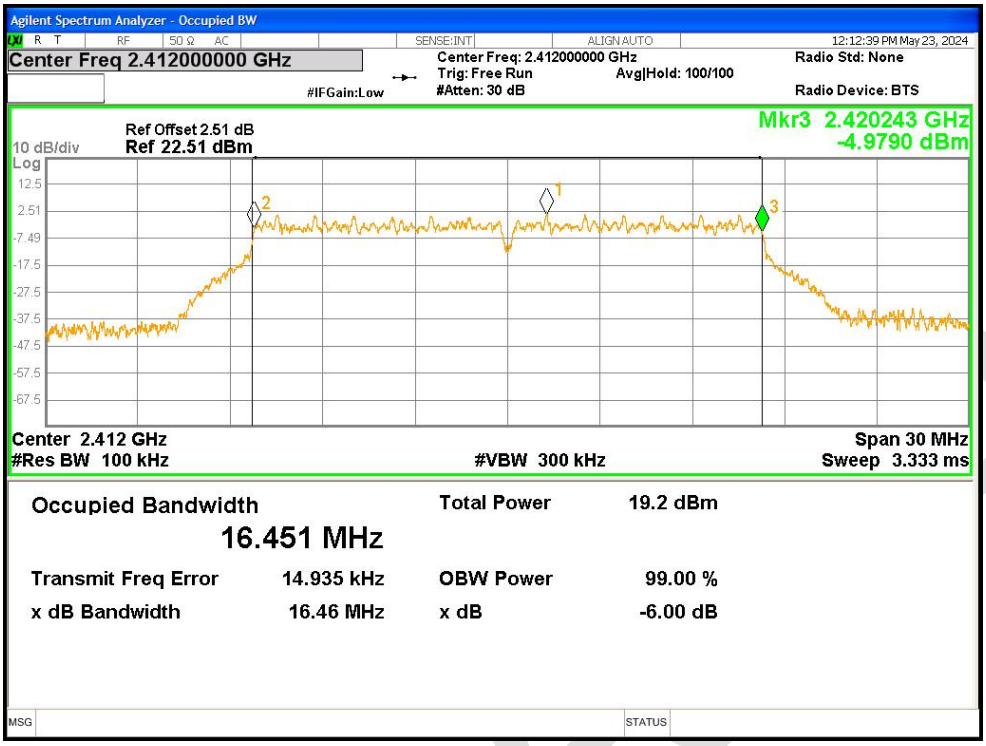
-6dB Bandwidth NVNT b 2437MHz Ant1



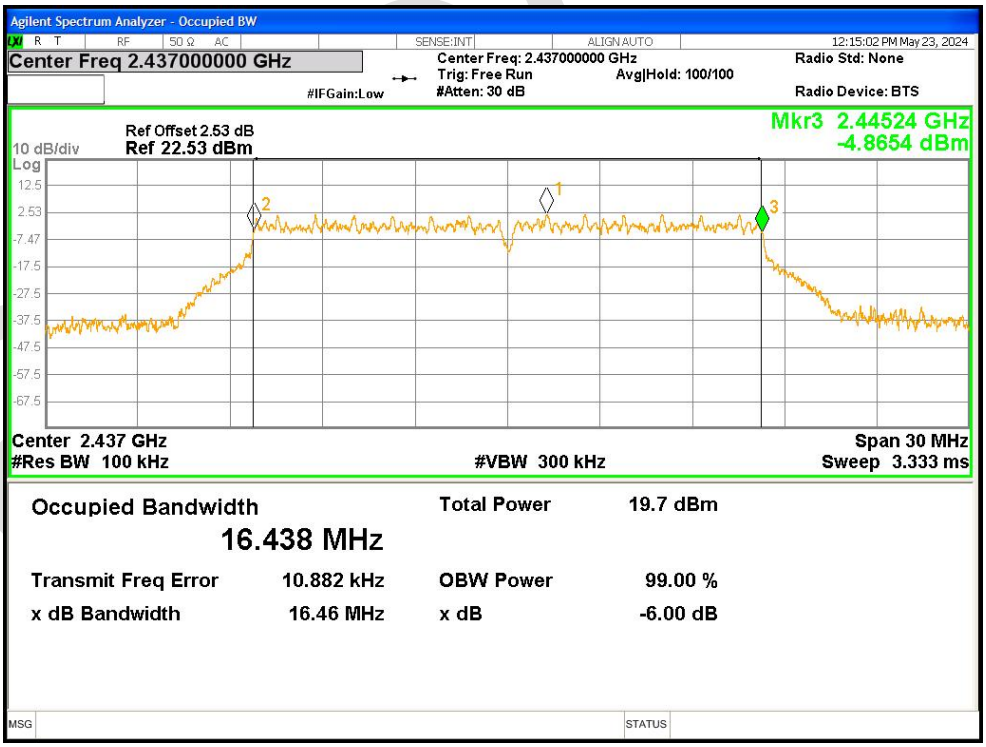
-6dB Bandwidth NVNT b 2462MHz Ant1



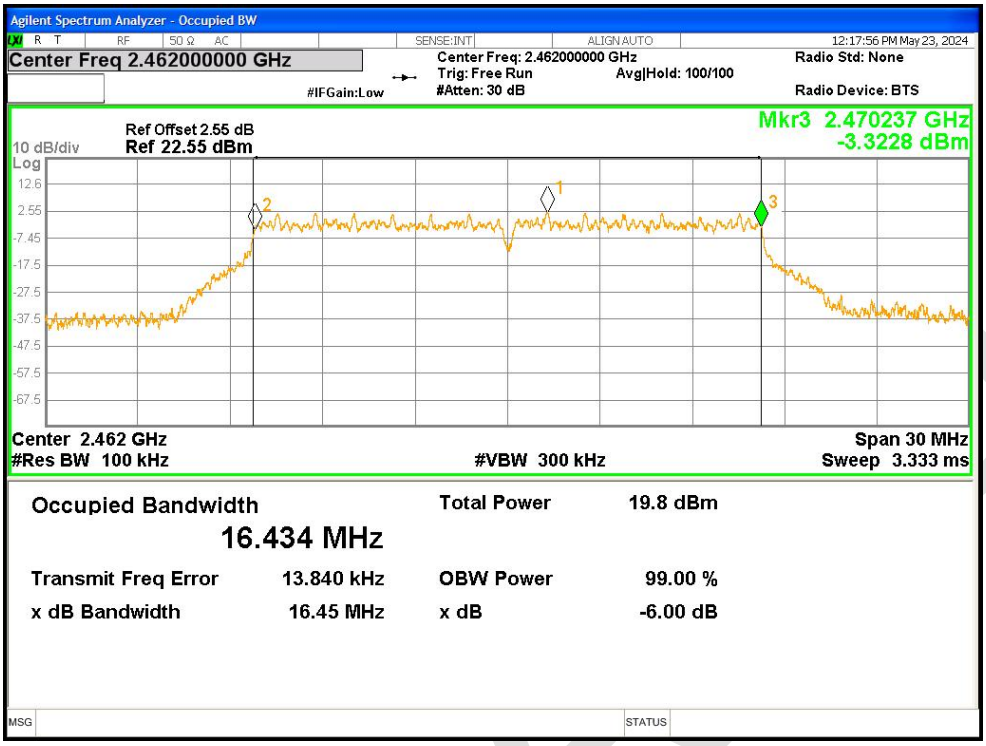
-6dB Bandwidth NVNT g 2412MHz Ant1



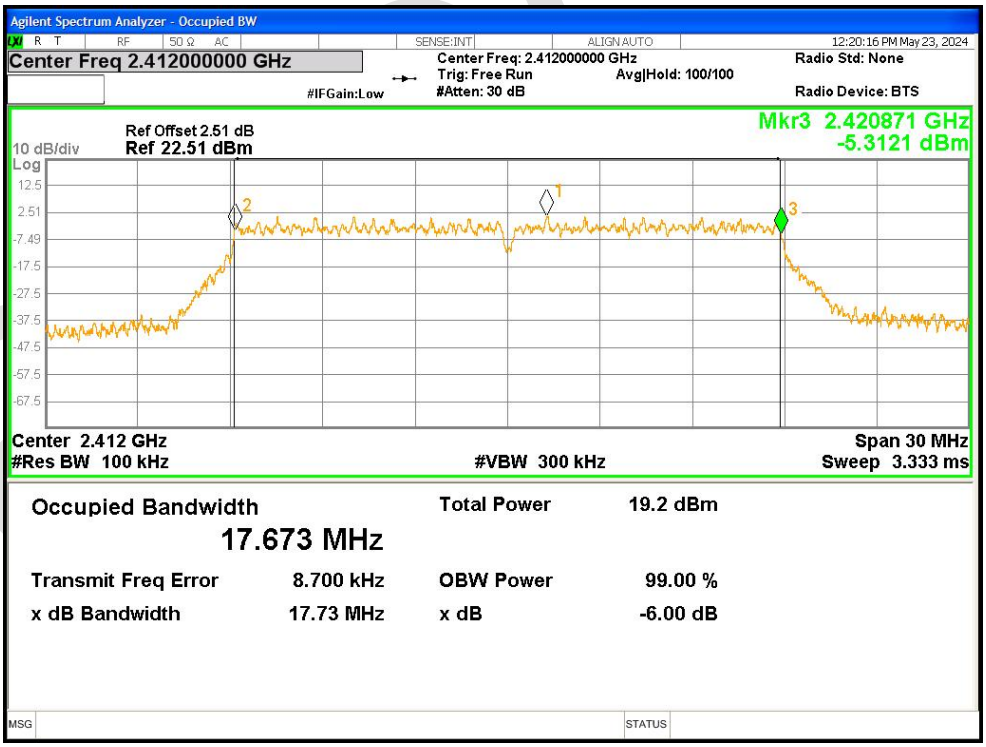
-6dB Bandwidth NVNT g 2437MHz Ant1



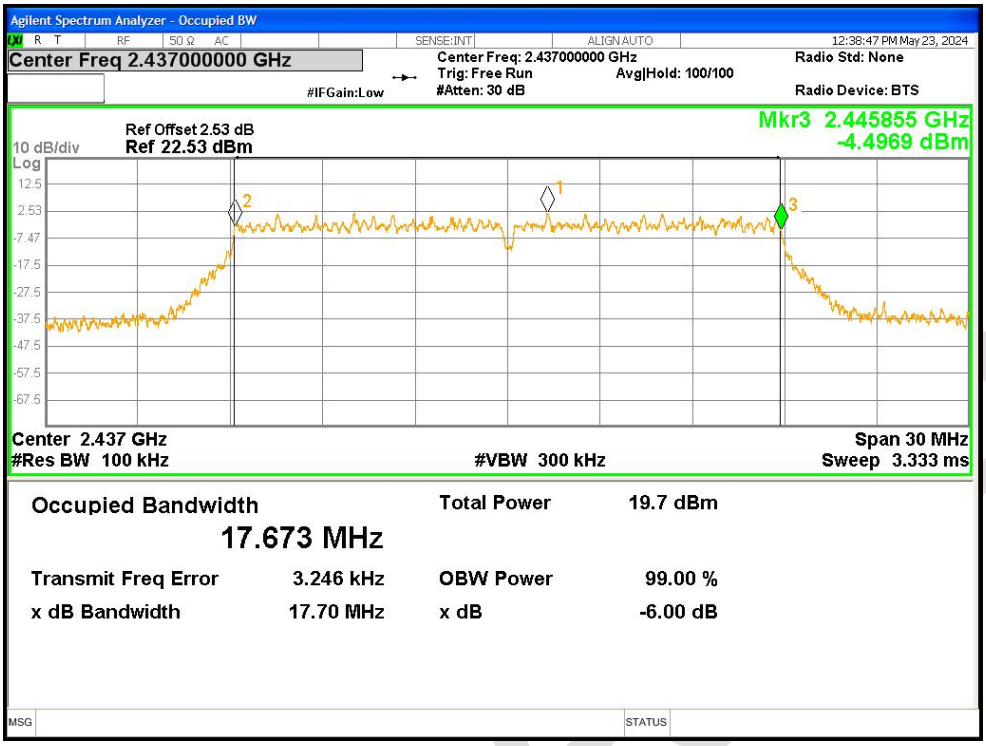
-6dB Bandwidth NVNT g 2462MHz Ant1



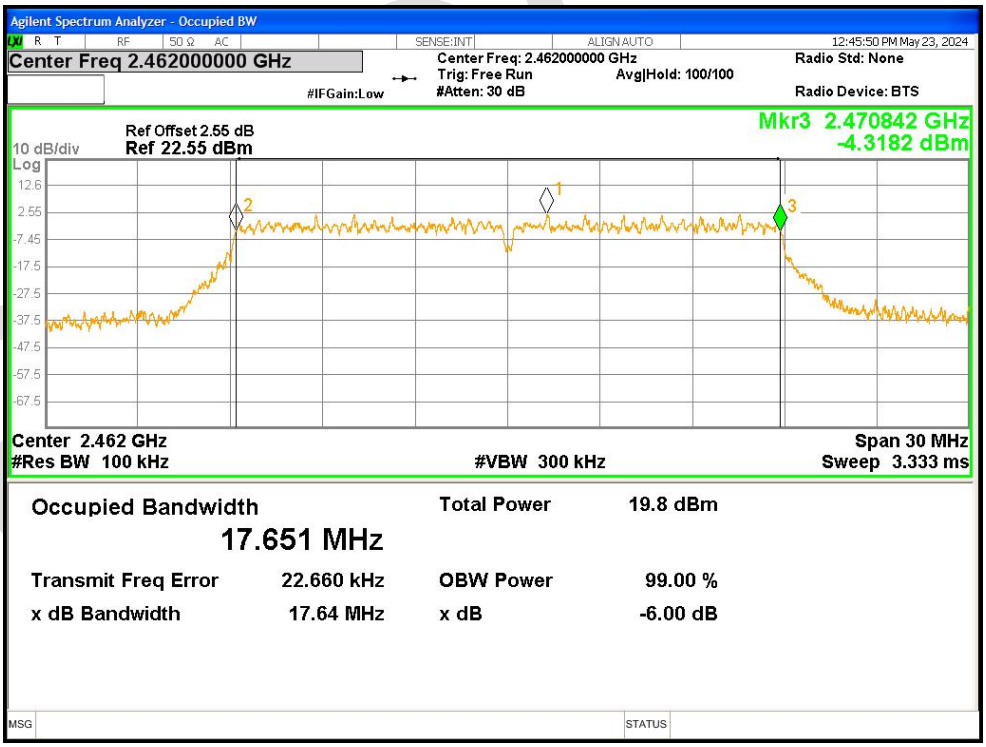
-6dB Bandwidth NVNT n20 2412MHz Ant1



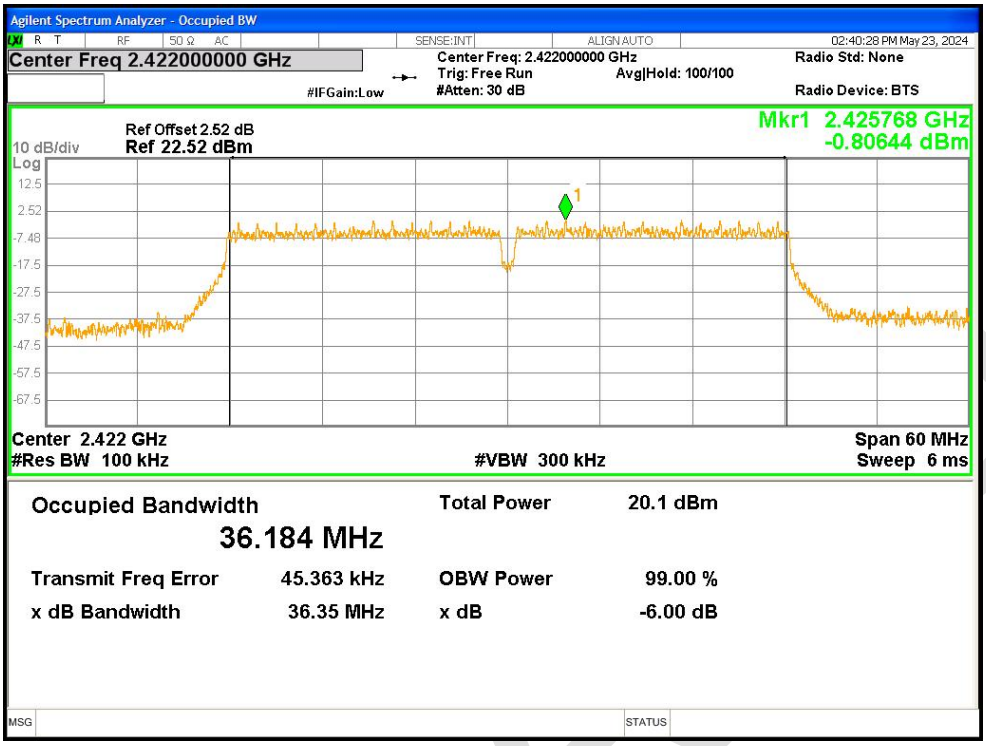
-6dB Bandwidth NVNT n20 2437MHz Ant1



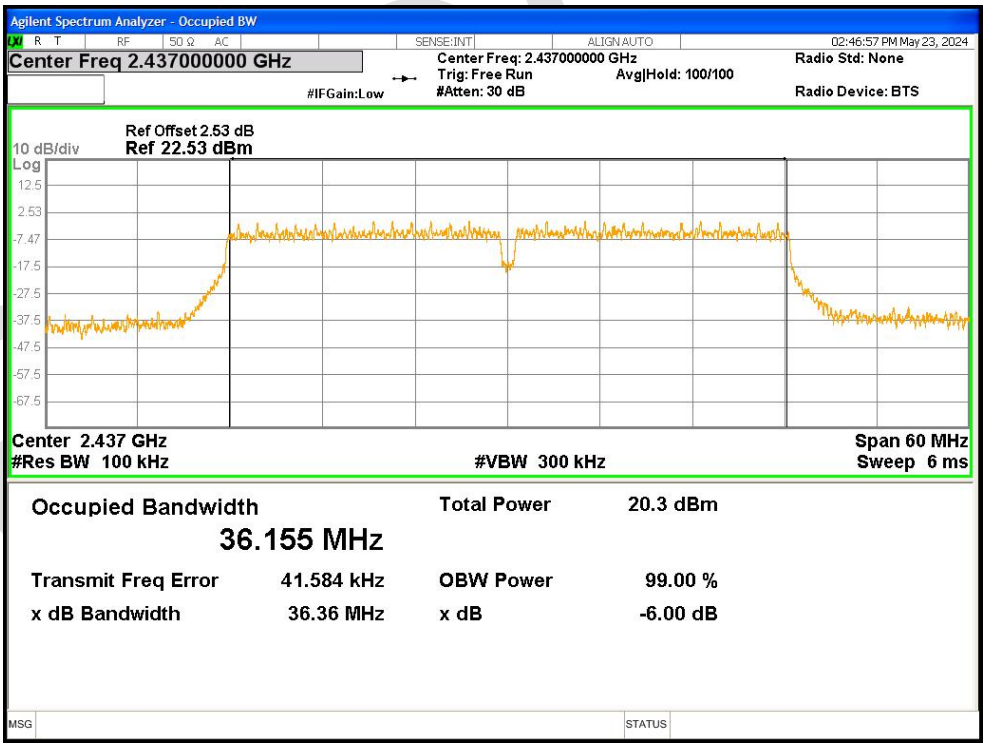
-6dB Bandwidth NVNT n20 2462MHz Ant1



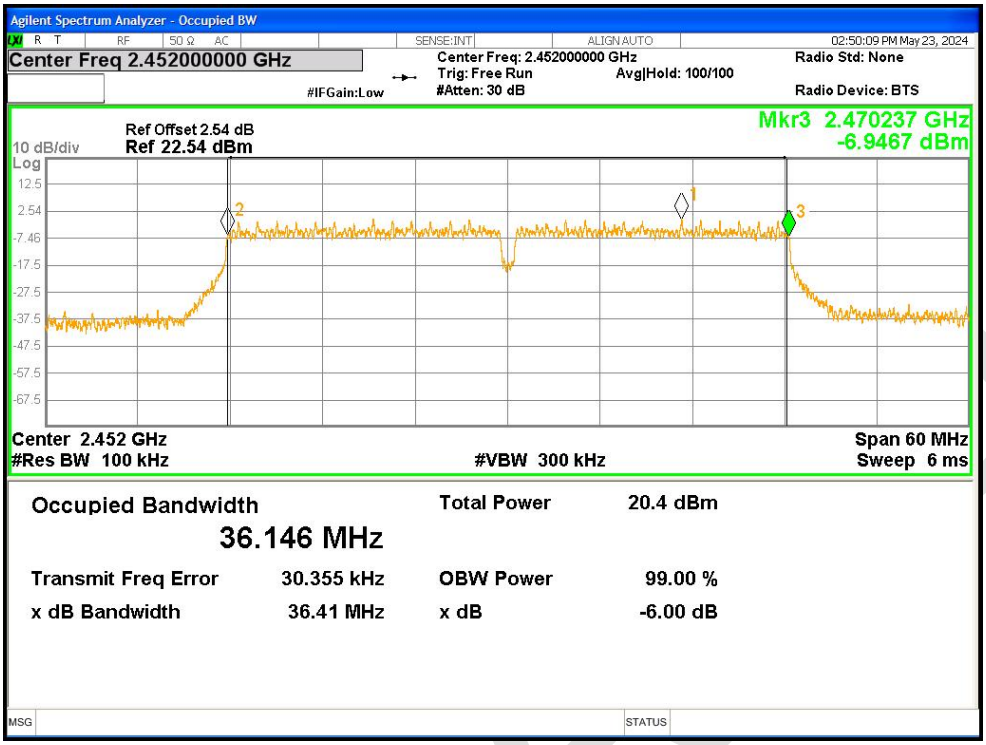
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



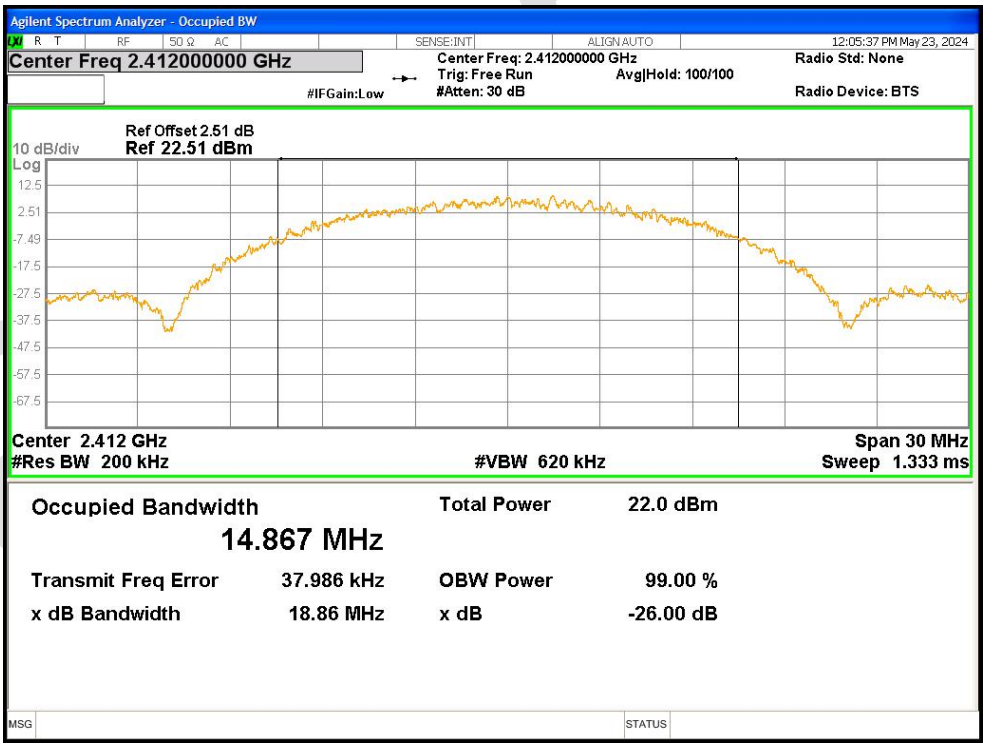
-6dB Bandwidth NVNT n40 2452MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
#IFGain:Low
Radio Std: None
Radio Device: BTS
02:50:09 PM May 23, 2024
Ref Offset 2.54 dB
10 dB/div
Ref 22.54 dBm
Log
Mkr3 2.470237 GHz
-6.9467 dBm
Center 2.452 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 6 ms
Occupied Bandwidth
36.146 MHz
Total Power 20.4 dBm
Transmit Freq Error 30.355 kHz
OBW Power 99.00 %
x dB Bandwidth 36.41 MHz
x dB -6.00 dB
MSG
STATUS

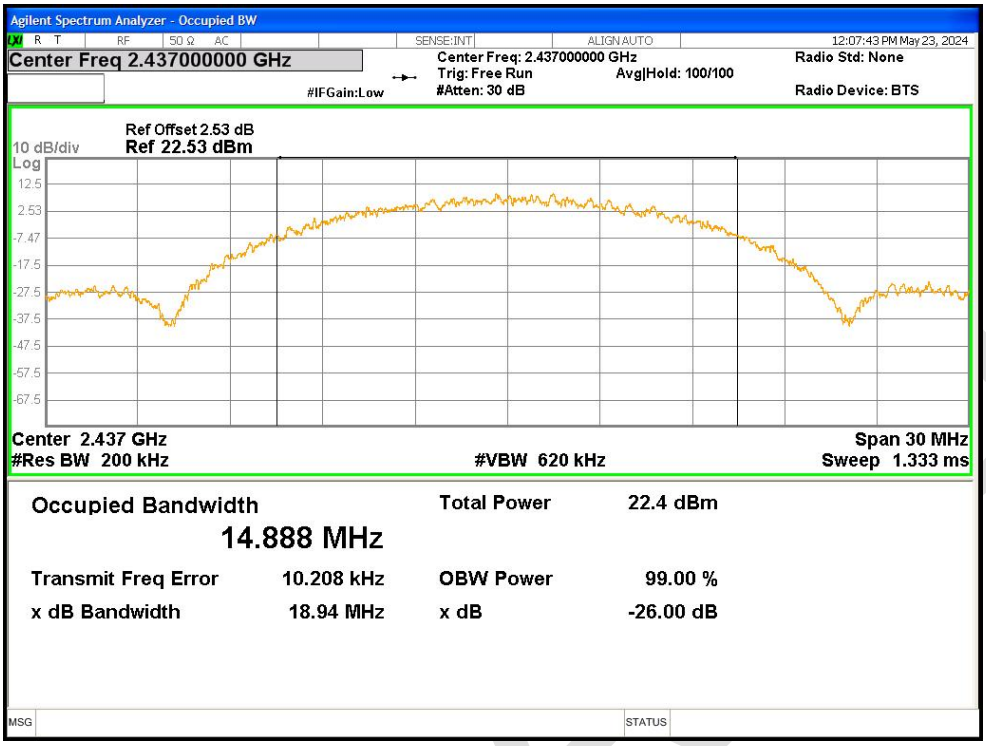
7.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.8665016
NVNT	b	2437	Ant1	14.88774581
NVNT	b	2462	Ant1	15.052252
NVNT	g	2412	Ant1	16.53274509
NVNT	g	2437	Ant1	16.54079125
NVNT	g	2462	Ant1	16.5427029
NVNT	n20	2412	Ant1	17.74658801
NVNT	n20	2437	Ant1	17.75247776
NVNT	n20	2462	Ant1	17.74295507
NVNT	n40	2422	Ant1	36.29553622
NVNT	n40	2437	Ant1	36.33580122
NVNT	n40	2452	Ant1	36.31720608

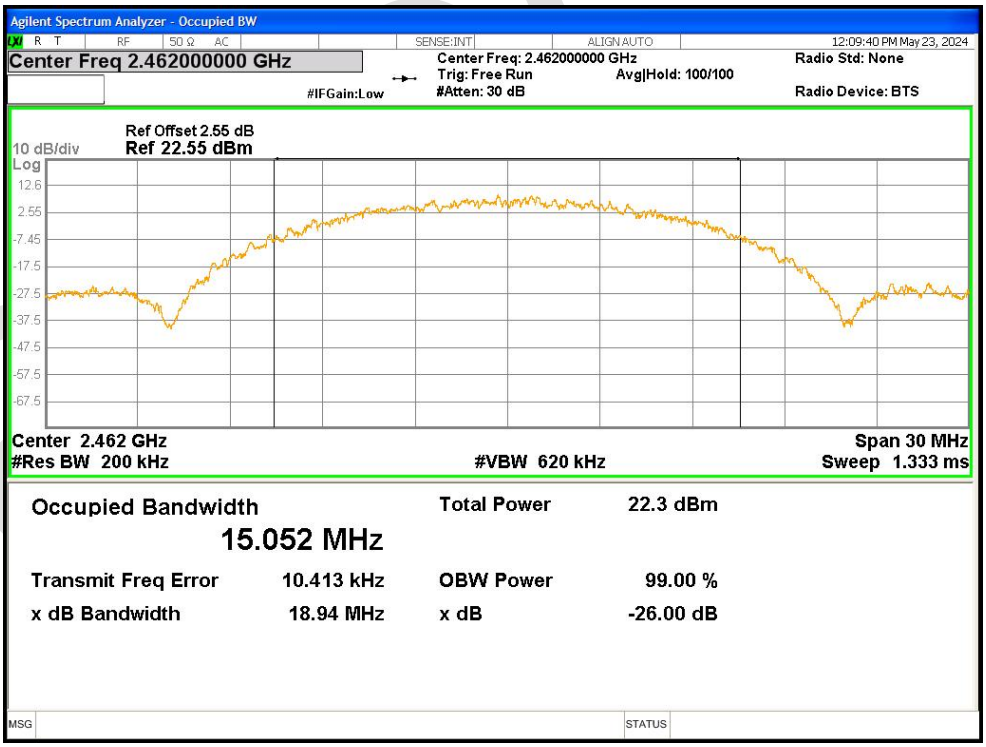
OBW NVNT b 2412MHz Ant1



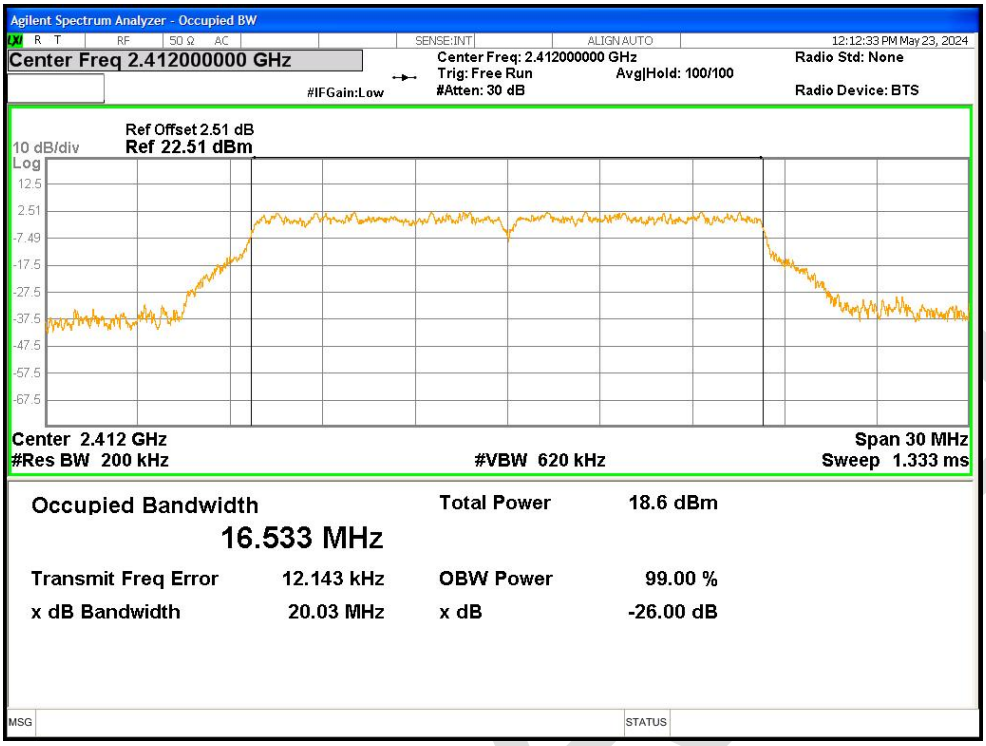
OBW NVNT b 2437MHz Ant1



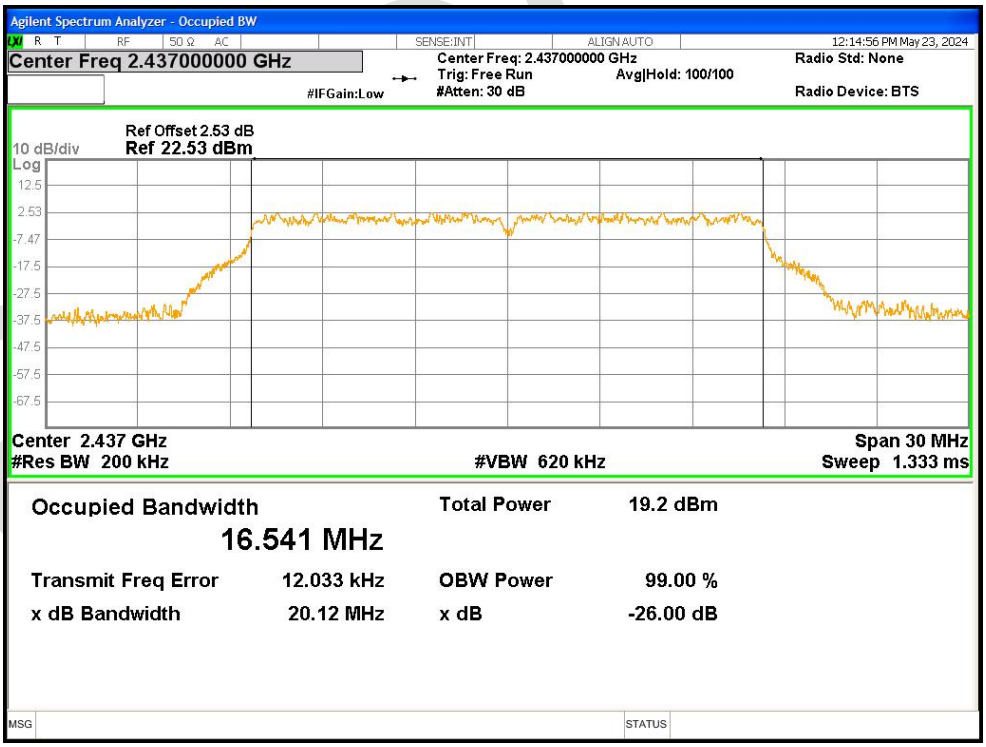
OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1