

RF TEST REPORT

FCC ID: 2A22E-WWYLWRAX1800

According to

47 CFR FCC Part 15, Subpart C(Section 15.247)

ANSI C63.10:2013

Equipment : AX1800 Wi-Fi 6 Router
Model No. : WRAX1800, AX1800, AX1800P, WQAX1800, WEAX1800 (the last X=A-Z or a-z, which indicates for different appearance, dimension and color.)
Trademark : N/A
Product No. : T221230043-L1-S001
Applicant : Micronet Union Technology(Chengdu) Co., Ltd Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China
Receipt date : 2023.07.24
Test date : 2023.07.25~2023.08.16
Issued Date : 2023.08.16

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History of this test report

Original Report Issue Date: 2023.08.16

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Micronet Union Technology(Chengdu) Co., Ltd

Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China

1.2 Manufacturer

Micronet Union Technology(Chengdu) Co., Ltd

Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China

1.3 Basic Description of Equipment Under Test

Items	Description	
Equipment Name	AX1800 Wi-Fi 6 Router	
Model Number	WRAX1800, AX1800, AX1800P, WQAX1800, WEAX1800 (the last X=A-Z or a-z, which indicates for different appearance, dimension and color.)	
Trade Mark	N/A	
Power Supply	100V~240V,50/60Hz	
Adapter1 information	Model: RD1201000-C55-35MGD Input: 100-240V~, 50/60Hz 0.6A Output: 12V1.0A	
Adapter2 information	Model: MAUS-12010001202 Input: 100-240V~, 50/60Hz 0.35A Output: 12V1.0A	
Operate temperature	0℃-45℃	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band and Conducted Output Power (Max power)	2400MHz ~ 2483.5MHz	●IEEE 802.11ax20: 18.86dBm
Product Type	IEEE 802.11b: WLAN (SISO) IEEE 802.11g: WLAN (SISO) IEEE 802.11n: WLAN (MIMO) IEEE 802.11ax: WLAN (MIMO)	
Nominal Bandwidth	20MHz / 40MHz	
Modulation	IEEE 802.11b: DSSS (DBPSK / DQPSK / CCK) IEEE 802.11g: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11n: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ax: OFDMA(BPSK / QPSK / 16QAM / 64QAM)	
Data Rate (Mbps)	IEEE 802.11b mode: DSSS (1/2/5.5/11) IEEE 802.11g mode: OFDM (6/9/12/18/24/36/48/54) IEEE 11n mode: MCS0~MCS15 IEEE 11ax mode: MCS0~MCS11	

Note: For 802.11ax mode only support full RU mode.

Eleven channels are provided for 802.11b, 802.11g, 802.11n (20MHz), 802.11ax (20MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5 MHz	01	2412MHz	07	2442MHz
	02	2417MHz	08	2447MHz
	03	2422MHz	09	2452MHz
	04	2427MHz	10	2457MHz
	05	2432MHz	11	2462MHz
	06	2437MHz	/	/

Seven channels are provided for 802.11n (40MHz), 802.11ax (40MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5 MHz	03	2422 MHz	07	2442MHz
	04	2427MHz	08	2447MHz
	05	2432MHz	09	2452MHz
	06	2437MHz	/	/

Model Difference Description

They have the same circuit and the only difference is antenna and appearance, please refer to APPENDIX 2_EUT Internal Photos, EUT1, EUT2 , EUT3, EUT4, EUT5, EUT6 and EUT7 have the identical antenna, EUT8 and EUT9 have the identical antenna.

Antenna information

EUT	Antenna gain	Antenna Type
EUT1, EUT2 , EUT3, EUT4, EUT5, EUT6 and EUT7	Ant1: 5.25dBi, Ant2: 5.32dBi	External antenna
EUT8 and EUT9	Ant1: 4.32dBi, Ant2: 4.32dBi	Integral antenna

1.4 Transmit Operating Mode

Transmit Operating Mode					Transmit Multiple Antennas			
☒	Operating mode 1 (single antenna)				☒	1TX		
☒	Operating mode 2 (multiple antenna, no beam forming)				☒	2TX	☐ 3TX	☐ 4TX
☐	Operating mode 3 (multiple antenna, with beam forming)				☐	2TX	☐ 3TX	☐ 4TX
☒	802.11b	Operating mode	☒	1TX	☐	2TX	☐	3TX
☒	802.11g	Operating mode	☒	1TX	☐	2TX	☐	3TX
☒	802.11n(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX
☒	802.11n(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX
☒	802.11ax(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX
☒	802.11ax(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Test item	FCC Clause	Results	Remarks
AC Power Conducted Emission	15.207	Pass	Meet the requirement of the limit
Radiated Emission and Band Edge Measurement	15.205/15.209 /15.247(d)	Pass	Meet the requirement of the limit
Spurious Emission at Antenna Port	15.247(d)	Pass	Meet the requirement of the limit
6dB Bandwidth	15.247(a)(2)	Pass	Meet the requirement of the limit
Conducted Power	15.247(b)	Pass	Meet the requirement of the limit
Power Spectral Density	15.247(e)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note
Note: The EUT1, EUT2, EUT3, EUT4, EUT5, EUT6 and EUT7 have 2 external antennas arrangement which was permanently attached; The EUT8 and EUT9 have 2 Internal antennas arrangement which was permanently attached.			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart C (Section 15.247)

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

2.3 Test Instruments

Radiated Emissions						
No.	Equipment	Manufacturer	Type No.	Serial No.	Cal. date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
1	Test receiver	Rohde&Schwarz	ESU	100184	2023/5/3	2024/5/2
2	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-127 3	2023/4/23	2024/4/22
3	Low frequency amplifier	Unknown	LNA 0920N	2014	2023/5/3	2024/5/2
4	High frequency amplifier	Schwarzbeck	BBV 9718	284	2023/5/3	2024/5/2
5	Loop Antenna	Schwarzbeck	FMZB1519 B	00029	2022/7/4	2025/7/3
6	Log periodic antenna	Schwarzbeck	VULB 9168	1151	2023/4/23	2024/4/22
7	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-127 3	2022/5/5	2025/5/4
8	Horn Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/7/4	2025/7/3
9	Temp&Humidity Recorder	Meideshi	JR900	/	2023/5/3	2024/5/2
10	RF cable(966 chamber)9kHz-1 GHz	Unknown	Unknown	Unknown	2023/5/3	2024/5/2
11	RF cable(966 chamber)1GHz- 18GHz	Unknown	Unknown	Unknown	2023/5/3	2024/5/2
12	RF cable(966 chamber)18GHz -40GHz	Unknown	Unknown	Unknown	2023/5/3	2024/5/2
13	Test software	Farad Technology Co., Ltd	EZ-EMC	/	/	/
Conducted Emission						
1	Test receiver	Rohde&Schwarz	ESCI	100718	2023/5/3	2024/5/2
2	LISN	Rohde&Schwarz	ENV216	100075	2023/5/3	2024/5/2
3	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	2023/5/3	2024/5/2
4	RF cable (9kHz-30MHz)	Unknown	Unknown	Unknown	2023/5/3	2024/5/2
5	Test software	Farad Technology Co., Ltd	EZ-EMC	/	/	/
RF Conducted Emission						
1	MXA Signal Analyzer	Keysight	N9021B	MY600801 69	2023/4/23	2024/4/22
2	RF Control Unit	dsuoft	JS0806-2	21G806044 9	2023/4/23	2024/4/22
3	power supply unit	dsuoft	JS0806-4A DC	N/A	2023/4/23	2024/4/22
4	VXG Signal Generator	Keysight	M9384B	MY612707 87	2023/4/23	2024/4/22
5	EXG Analog Signal Generator	Keysight	N5173B	MY591012 82	2023/4/23	2024/4/22
6	Test software	dsuoft	JS1120-3	/	/	/

2.4 Test Mode

Frequency Range : 2400~2483.5 MHz				
Test Items	Mode	Data Rate	Channel	Antenna
AC Power Conducted Emission	Simultaneous transmitting	-	-	-
Radiated Emission and Band Edge Measurement	802.11b	1Mbps	01/06/11	1/2
	802.11g	6Mbps	01/06/11	1/2
	802.11n(20MHz)	MCS0	01/06/11	1&2
	802.11n(40MHz)	MCS0	03/06/09	1&2
Spurious Emission at Antenna Port	802.11b	1Mbps	01/06/11	1/2
	802.11g	6Mbps	01/06/11	1/2
	802.11n(20MHz)	MCS0	01/06/11	1&2
	802.11n(40MHz)	MCS0	03/06/09	1&2
	802.11ax(20MHz)	MCS0	01/06/11	1&2
	802.11ax(40MHz)	MCS0	03/06/09	1&2
6dB Bandwidth	802.11b	1Mbps	01/06/11	1/2
	802.11g	6Mbps	01/06/11	1/2
	802.11n(20MHz)	MCS0	01/06/11	1&2
	802.11n(40MHz)	MCS0	03/06/09	1&2
	802.11ax(20MHz)	MCS0	01/06/11	1&2
	802.11ax(40MHz)	MCS0	03/06/09	1&2
Conducted Power	802.11b	1Mbps	01/06/11	1/2
	802.11g	6Mbps	01/06/11	1/2
	802.11n(20MHz)	MCS0	01/06/11	1&2
	802.11n(40MHz)	MCS0	03/06/09	1&2
	802.11ax(20MHz)	MCS0	01/06/11	1&2
	802.11ax(40MHz)	MCS0	03/06/09	1&2
Power Spectral Density	802.11b	1Mbps	01/06/11	1/2
	802.11g	6Mbps	01/06/11	1/2
	802.11n(20MHz)	MCS0	01/06/11	1&2
	802.11n(40MHz)	MCS0	03/06/09	1&2
	802.11ax(20MHz)	MCS0	01/06/11	1&2
	802.11ax(40MHz)	MCS0	03/06/09	1&2

2.5 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	24.3°C, 51% RH	120V AC	Albert Fan
Radiated Emission and Band Edge Measurement	24.2°C, 55% RH	120V AC	Albert Fan
Spurious Emission at Antenna Port	24.4°C, 53% RH	120V AC	Albert Fan
6dB Bandwidth	24.4°C, 53% RH	120V AC	Albert Fan
Conducted Power	24.4°C, 53% RH	120V AC	Albert Fan
Power Spectral Density	24.4°C, 53% RH	120V AC	Albert Fan

The applicant declare the operating environment of EUT as below:

Normal conditions: 120V AC, 15~35°C

2.6 Duty Cycle of Test Signal

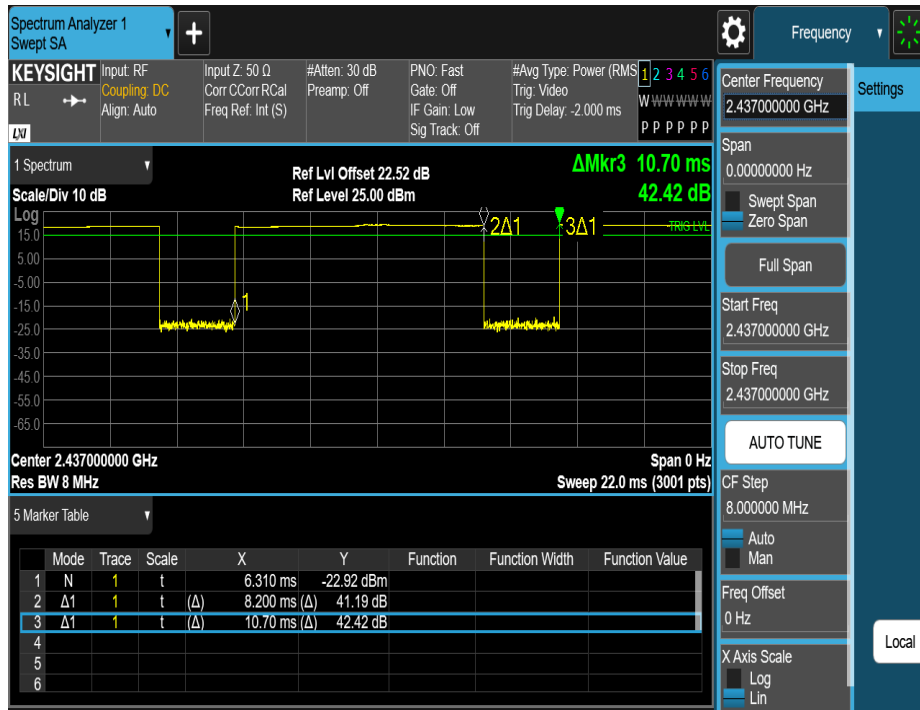
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

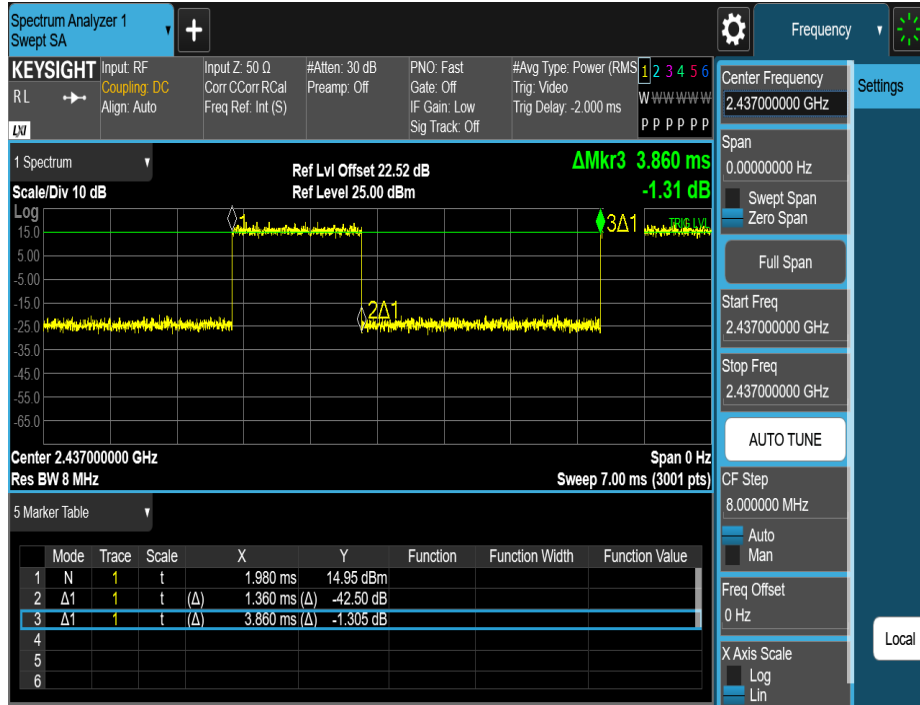
All the duty factor of other test mode have been considered.

Test Mode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle[%]
11B	2437	8.20	10.70	76.64
11G	2437	1.36	3.86	35.23
11N20MIMO	2437	1.15	3.66	31.42
11N40MIMO	2437	0.57	3.07	18.57
11AX20MIMO	2437	0.99	3.49	28.37
11AX40MIMO	2437	0.52	3.02	17.22

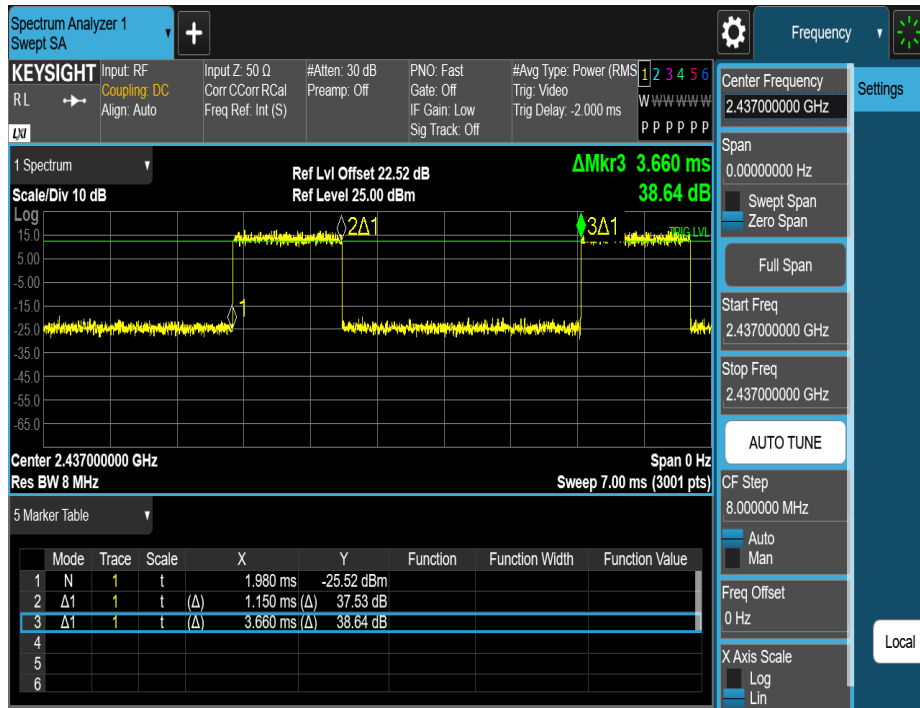
11B_2437



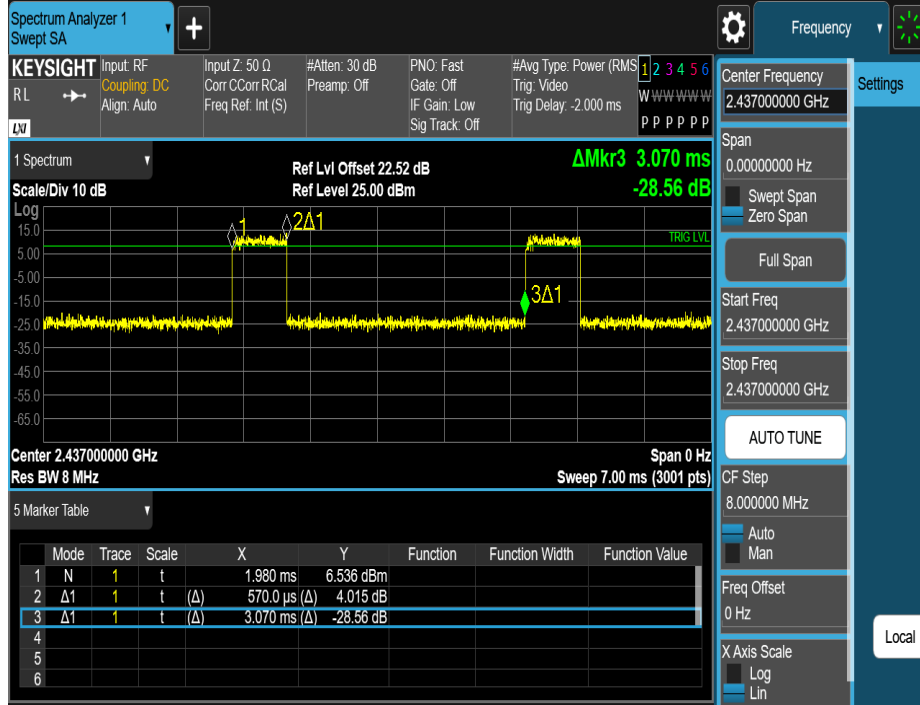
11G_2437



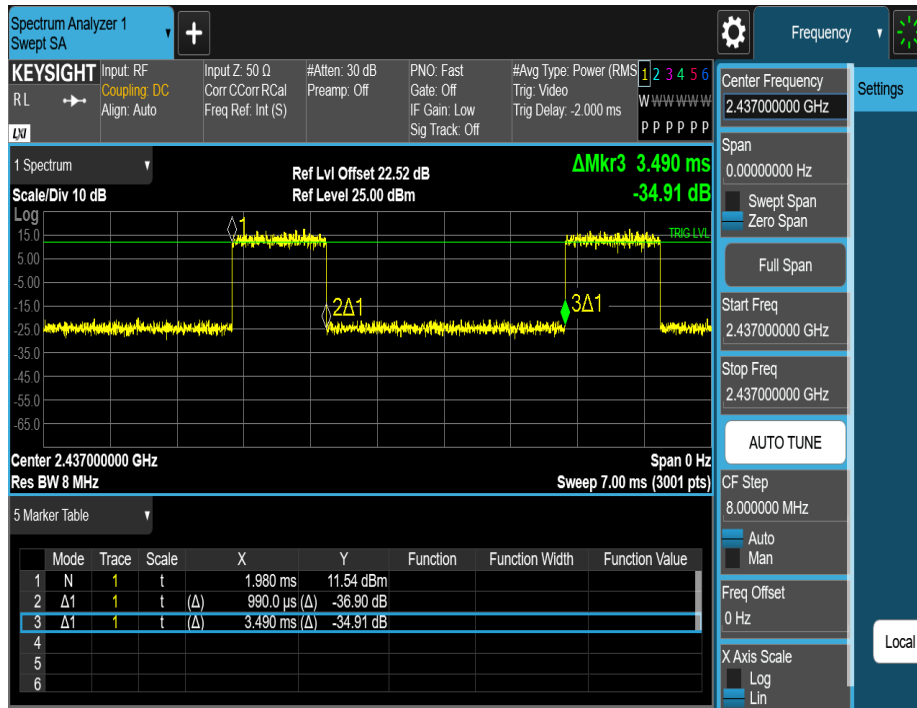
11N20MIMO_2437



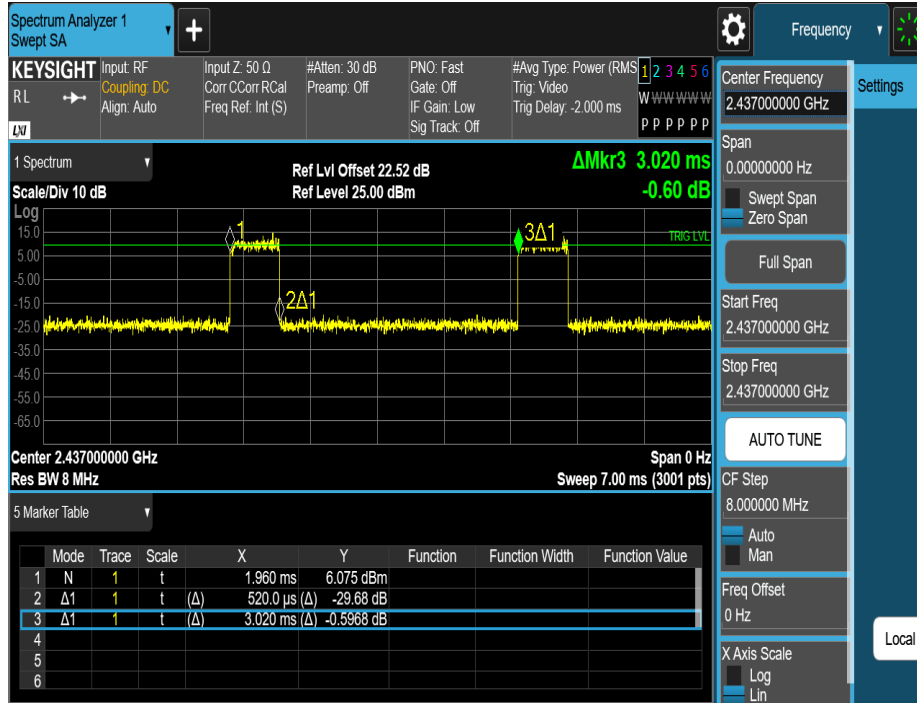
11N40MIMO_2437



11AX20MIMO_2437



11AX40MIMO_2437



2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	± 143.88 kHz
Power Spectral Density	± 0.743 dB
Conducted Spurious Emission	± 1.328 dB
RF power conducted	± 0.384 dB
Conducted emission(9kHz~30MHz) AC main	± 2.72 dB
Radiated emission(9kHz~30MHz)	± 2.66 dB
Radiated emission (30MHz~1GHz)	± 4.62 dB
Radiated emission (1GHz~18GHz)	± 4.86 dB
Radiated emission (18GHz~40GHz)	± 3.80 dB

2.8 Test Location

Company:	Shenzhen Haiyun Standard Technical CO., Ltd.
Address:	Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01
Telephone:	0755-26024411

2.9 Deviation from Standards

None

2.10 Abnormalities from Standard Conditions

None

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

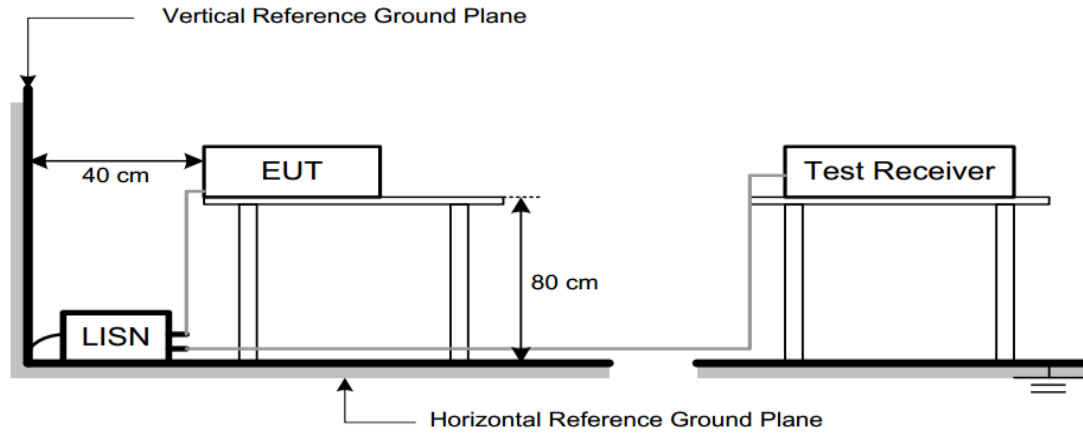
2. The lower limit shall apply at the transition frequencies.

3.1.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.3 Test Setup



3.1.4 Test Result

Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement – Limit
4. Nine samples and two adapters were pre-scanned and the worst results were recorded as follows
5. Simultaneous transmitting: 2.4G Wifi transmitting + 5G Wifi transmitting

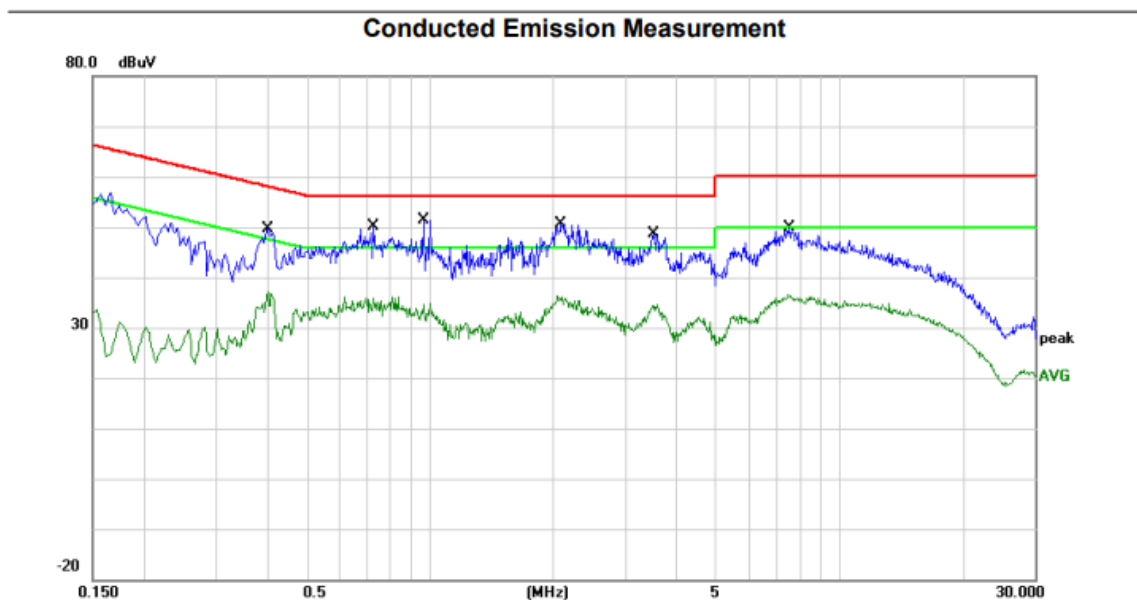
For adapter1

Note: This adapter has been tested the conducted emission together with the EUT. We only recorded the data of the worst mode. Please see the following:

150kHz~30MHz

Worst Case Operating Mode: Simultaneous transmitting

Line



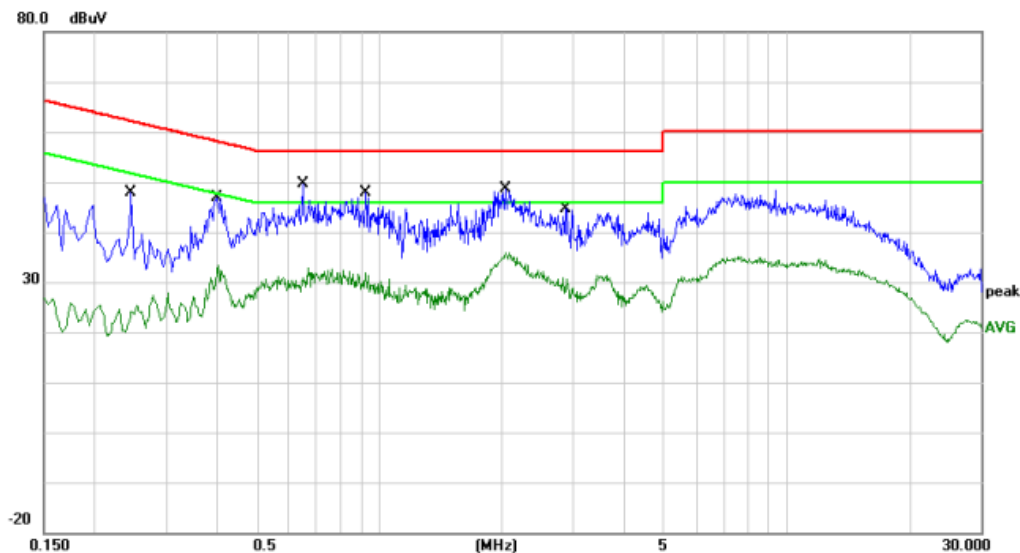
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4020	26.81	19.88	46.69	57.81	-11.12	QP	
2		0.4020	16.73	19.88	36.61	47.81	-11.20	AVG	
3		0.7300	22.81	19.88	42.69	56.00	-13.31	QP	
4		0.7300	13.80	19.88	33.68	46.00	-12.32	AVG	
5		0.9660	21.63	19.89	41.52	56.00	-14.48	QP	
6		0.9660	12.50	19.89	32.39	46.00	-13.61	AVG	
7		2.0980	23.35	19.91	43.26	56.00	-12.74	QP	
8		2.0980	14.24	19.91	34.15	46.00	-11.85	AVG	
9		3.5100	22.26	19.91	42.17	56.00	-13.83	QP	
10		3.5100	12.68	19.91	32.59	46.00	-13.41	AVG	
11		7.5500	22.45	19.93	42.38	60.00	-17.62	QP	
12		7.5500	14.51	19.93	34.44	50.00	-15.56	AVG	

150kHz~30MHz

Worst Case Operating Mode: Simultaneous transmitting

Neutral

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2460	11.84	19.88	31.72	61.89	-30.17	QP	
2		0.2460	2.48	19.88	22.36	51.89	-29.53	AVG	
3		0.3980	21.35	19.88	41.23	57.90	-16.67	QP	
4		0.3980	11.82	19.88	31.70	47.90	-16.20	AVG	
5		0.6500	20.09	19.88	39.97	56.00	-16.03	QP	
6		0.6500	10.18	19.88	30.06	46.00	-15.94	AVG	
7		0.9260	18.03	19.89	37.92	56.00	-18.08	QP	
8		0.9260	9.03	19.89	28.92	46.00	-17.08	AVG	
9		2.0340	21.95	19.91	41.86	56.00	-14.14	QP	
10	*	2.0340	14.58	19.91	34.49	46.00	-11.51	AVG	
11		2.8620	15.69	19.91	35.60	56.00	-20.40	QP	
12		2.8620	7.73	19.91	27.64	46.00	-18.36	AVG	

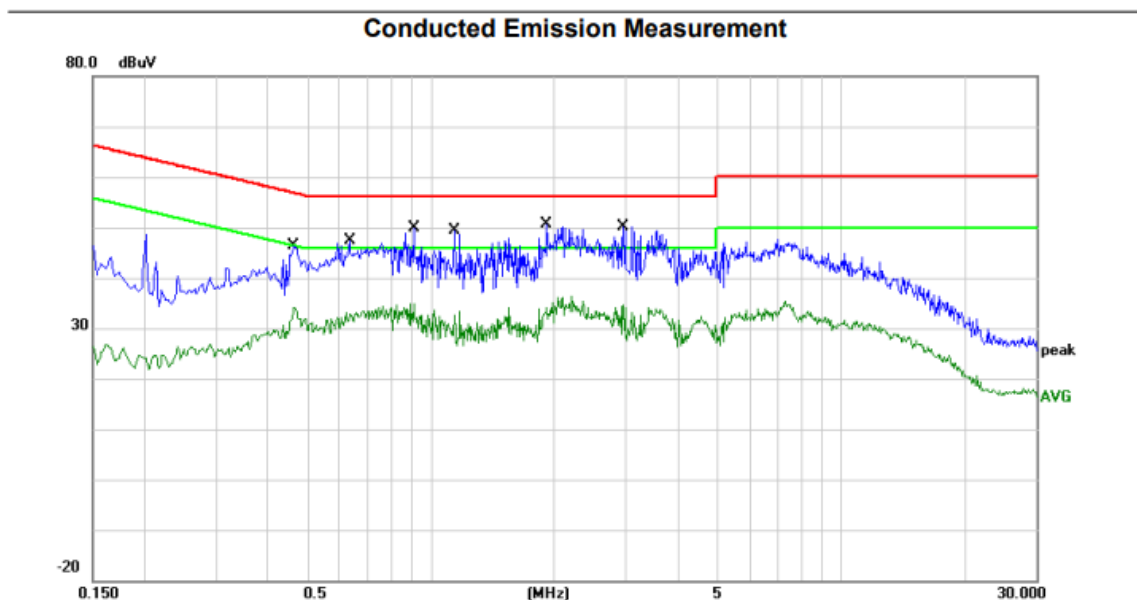
For adapter2

Note: This adapter has been tested the conducted emission together with the EUT. We only recorded the data of the worst mode. Please see the following:

150kHz~30MHz

Worst Case Operating Mode: Simultaneous transmitting

Line



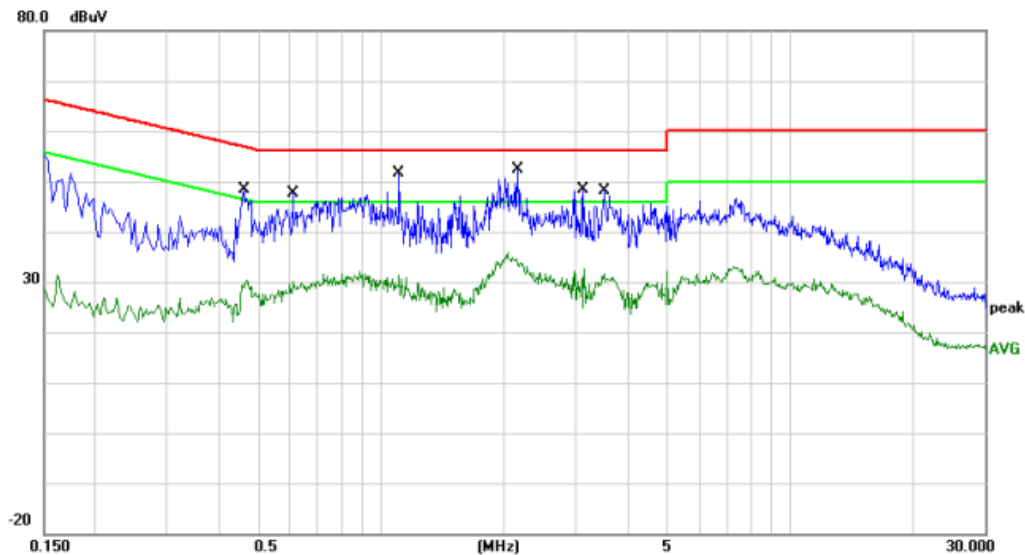
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4660	22.50	19.88	42.38	56.58	-14.20	QP	
2		0.4660	12.25	19.88	32.13	46.58	-14.45	AVG	
3		0.6340	20.95	19.88	40.83	56.00	-15.17	QP	
4		0.6340	11.33	19.88	31.21	46.00	-14.79	AVG	
5		0.9100	22.26	19.89	42.15	56.00	-13.85	QP	
6	*	0.9100	12.48	19.89	32.37	46.00	-13.63	AVG	
7		1.1460	19.25	19.89	39.14	56.00	-16.86	QP	
8		1.1460	8.47	19.89	28.36	46.00	-17.64	AVG	
9		1.9260	22.28	19.91	42.19	56.00	-13.81	QP	
10		1.9260	12.32	19.91	32.23	46.00	-13.77	AVG	
11		2.9500	20.28	19.91	40.19	56.00	-15.81	QP	
12		2.9500	9.52	19.91	29.43	46.00	-16.57	AVG	

150kHz~30MHz

Worst Case Operating Mode: Simultaneous transmitting

Neutral

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4620	20.18	19.88	40.06	56.66	-16.60	QP	
2		0.4620	8.75	19.88	28.63	46.66	-18.03	AVG	
3		0.6100	17.64	19.88	37.52	56.00	-18.48	QP	
4		0.6100	8.12	19.88	28.00	46.00	-18.00	AVG	
5		1.1100	17.21	19.89	37.10	56.00	-18.90	QP	
6		1.1100	7.95	19.89	27.84	46.00	-18.16	AVG	
7		2.1660	21.39	19.91	41.30	56.00	-14.70	QP	
8 *		2.1660	12.55	19.91	32.46	46.00	-13.54	AVG	
9		3.1180	16.64	19.91	36.55	56.00	-19.45	QP	
10		3.1180	6.20	19.91	26.11	46.00	-19.89	AVG	
11		3.5100	17.50	19.91	37.41	56.00	-18.59	QP	
12		3.5100	9.96	19.91	29.87	46.00	-16.13	AVG	

3.2 Radiated Emission and Band Edge

3.2.1 Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	2400/F(kHz)	-
0.490 – 1.705	30	24000/F(kHz)	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2.2 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

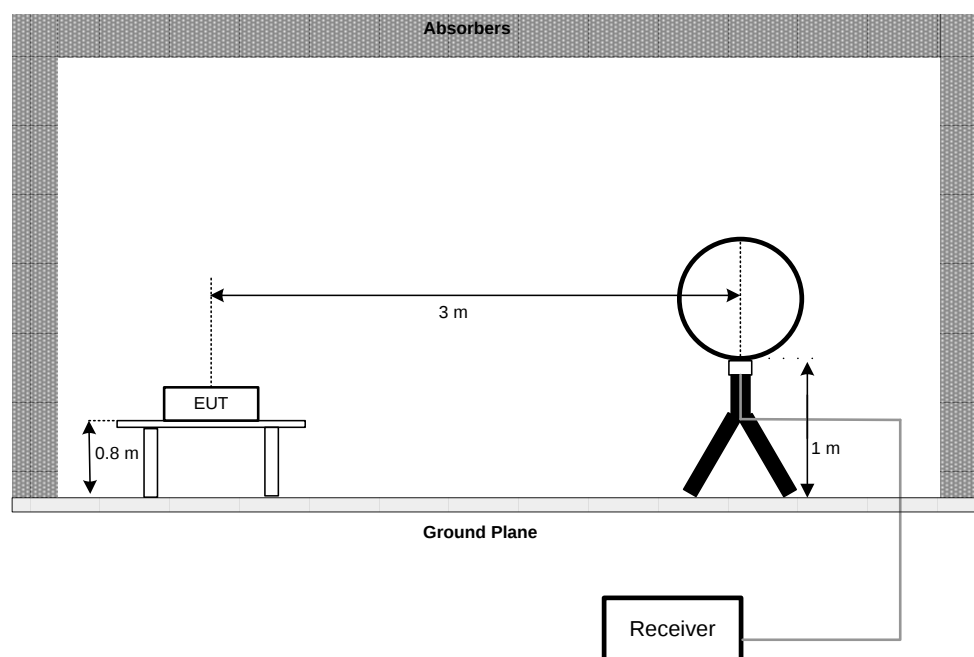
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of

the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

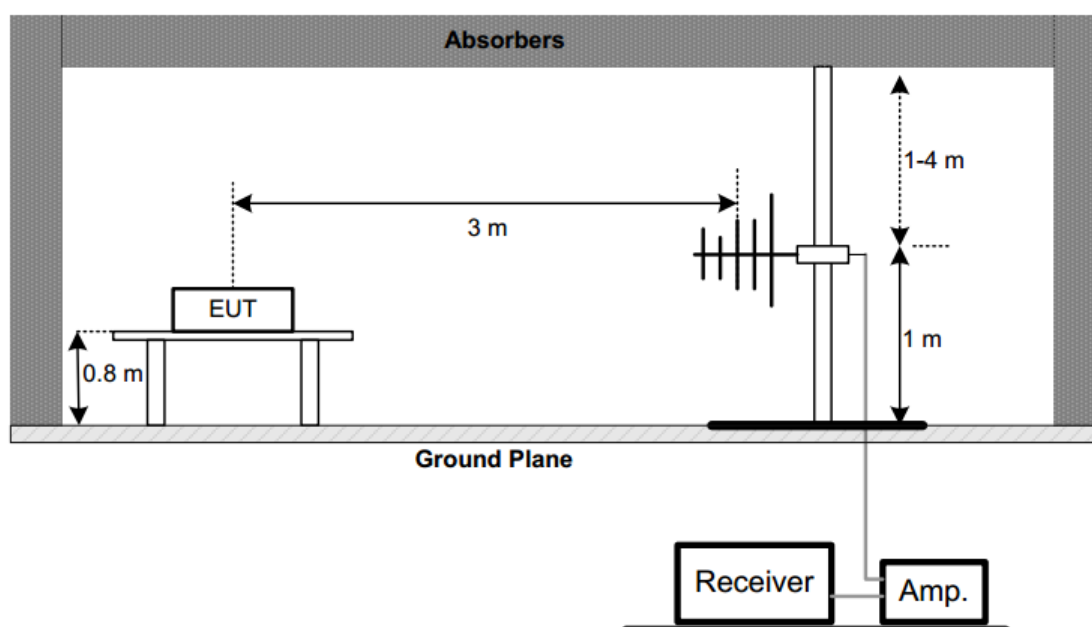
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

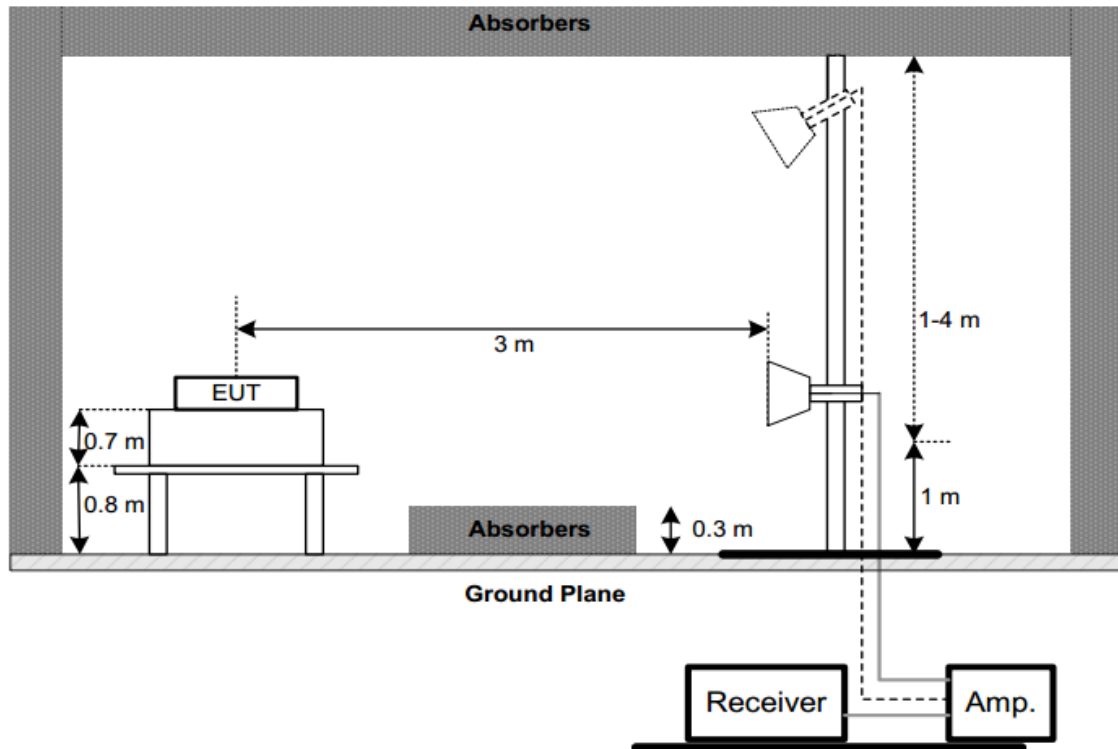
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(B) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(C) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.4 Test Result

1) Radiated emission: 9kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

2) Radiated emission: 30MHz-1G

Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit
3. Simultaneous transmitting: 2.4G Wifi transmitting + 5G Wifi transmitting
4. Pre-scan beamform mode and non-beamform mode, worst case for non-beamform mode is recorded.

For EUT1+adapter1

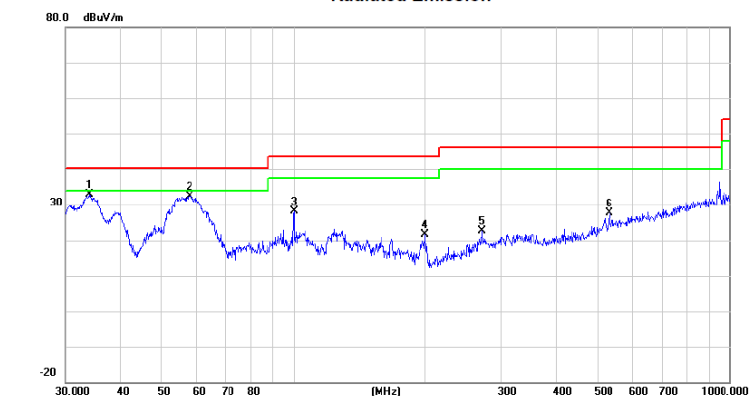
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

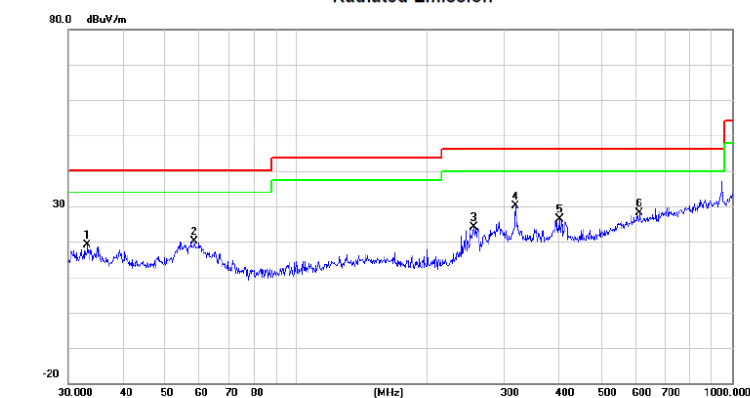
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	34.0363	44.71	-11.78	32.93	40.00	-7.07	peak	
2		57.7961	44.37	-11.88	32.49	40.00	-7.51	peak	
3		100.2284	41.67	-13.47	28.20	43.50	-15.30	peak	
4		200.6880	33.17	-11.65	21.52	43.50	-21.98	peak	
5		270.3747	31.77	-9.05	22.72	46.00	-23.28	peak	
6		530.1013	30.37	-2.62	27.75	46.00	-18.25	peak	

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		33.2112	30.96	-11.89	19.07	40.00	-20.93	peak	
2		58.4074	31.97	-11.95	20.02	40.00	-19.98	peak	
3		255.6231	33.59	-9.48	24.11	46.00	-21.89	peak	
4	*	318.8170	38.03	-7.84	30.19	46.00	-15.81	peak	
5		401.8384	32.11	-5.72	26.39	46.00	-19.61	peak	
6		614.2142	28.47	-0.37	28.10	46.00	-17.90	peak	

For EUT2+adapter1

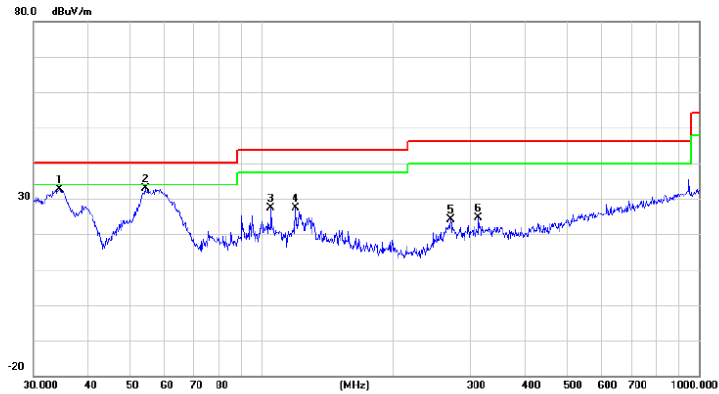
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

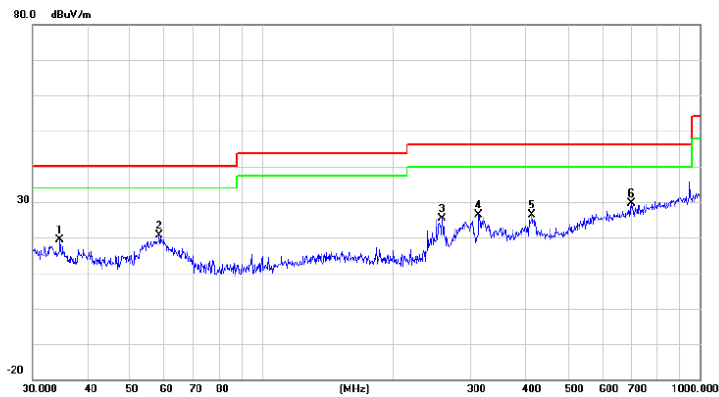
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		34.3964	44.33	-11.72	32.61	40.00	-7.39	peak	
2	*	54.0710	44.37	-11.47	32.90	40.00	-7.10	peak	
3		104.9032	40.33	-12.86	27.47	43.50	-16.03	peak	
4		119.4360	38.37	-10.97	27.40	43.50	-16.10	peak	
5		270.3748	33.14	-9.05	24.09	46.00	-21.91	peak	
6		313.2760	32.67	-7.96	24.71	46.00	-21.29	peak	

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		34.6385	30.98	-11.68	19.30	40.00	-20.70	peak	
2		58.4074	32.60	-11.95	20.65	40.00	-19.35	peak	
3		258.3264	34.69	-9.41	25.28	46.00	-20.72	peak	
4		313.2760	34.35	-7.96	26.39	46.00	-19.61	peak	
5		414.7223	31.71	-5.43	26.28	46.00	-19.72	peak	
6	*	699.3046	28.80	0.90	29.70	46.00	-16.30	peak	

For EUT3+adapter1

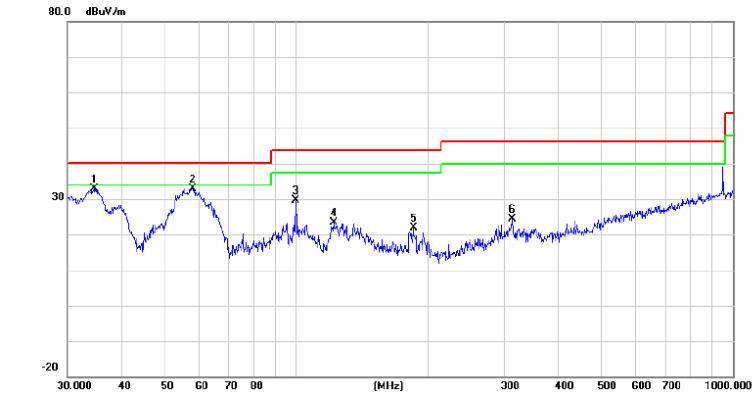
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

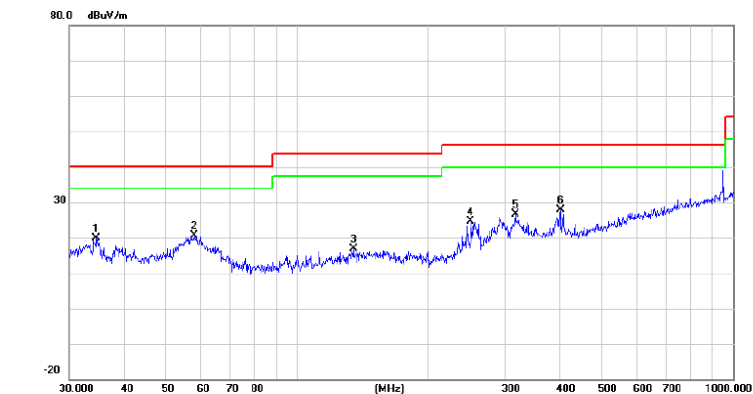
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		34.5173	44.55	-11.71	32.84	40.00	-7.16	peak		
2 *		57.9993	44.85	-11.90	32.95	40.00	-7.05	peak		
3		99.8777	43.05	-13.52	29.53	43.50	-13.97	peak		
4		121.9755	34.15	-10.78	23.37	43.50	-20.13	peak		
5		185.7882	33.01	-11.07	21.94	43.50	-21.56	peak		
6		313.2760	32.26	-7.96	24.30	46.00	-21.70	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		34.6385	31.51	-11.68	19.83	40.00	-20.17	peak		
2		57.9992	32.54	-11.90	20.64	40.00	-19.36	peak		
3		134.5591	26.80	-10.04	16.76	43.50	-26.74	peak		
4		250.3011	34.13	-9.60	24.53	46.00	-21.47	peak		
5		316.5890	34.54	-7.89	26.65	46.00	-19.35	peak		
6 *		401.8384	33.68	-5.72	27.96	46.00	-18.04	peak		

For EUT4+adapter1

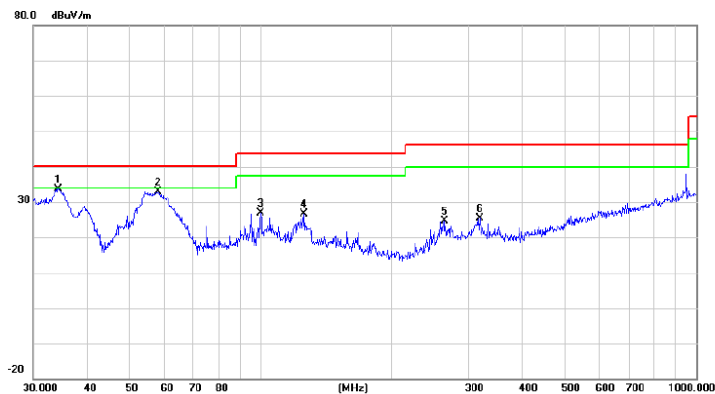
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

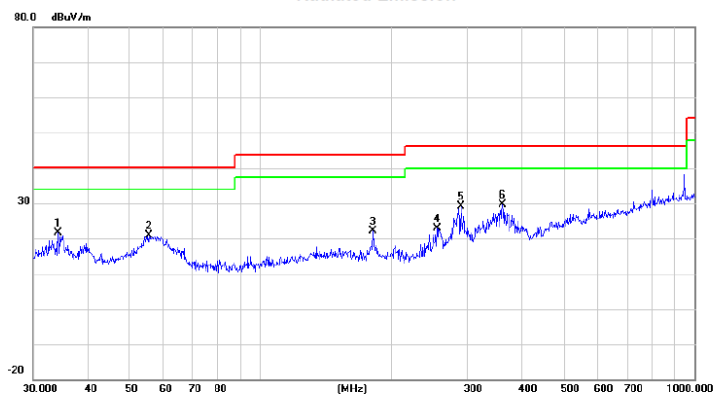
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	34.2760	45.39	-11.74	33.65	40.00	-6.35	peak		
2		58.2030	44.77	-11.93	32.84	40.00	-7.16	peak		
3		99.8777	40.35	-13.52	26.83	43.50	-16.67	peak		
4		125.8864	37.18	-10.55	26.63	43.50	-16.87	peak		
5		263.8190	33.84	-9.26	24.58	46.00	-21.42	peak		
6		318.8170	33.11	-7.84	25.27	46.00	-20.73	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		34.2760	33.30	-11.74	21.56	40.00	-18.44	peak		
2		55.4147	32.40	-11.62	20.78	40.00	-19.22	peak		
3		181.9202	33.15	-10.91	22.24	43.50	-21.26	peak		
4		255.6231	32.42	-9.48	22.94	46.00	-23.06	peak		
5		290.0172	37.63	-8.49	29.14	46.00	-16.86	peak		
6	*	361.7140	36.42	-6.69	29.73	46.00	-16.27	peak		

For EUT5+adapter1

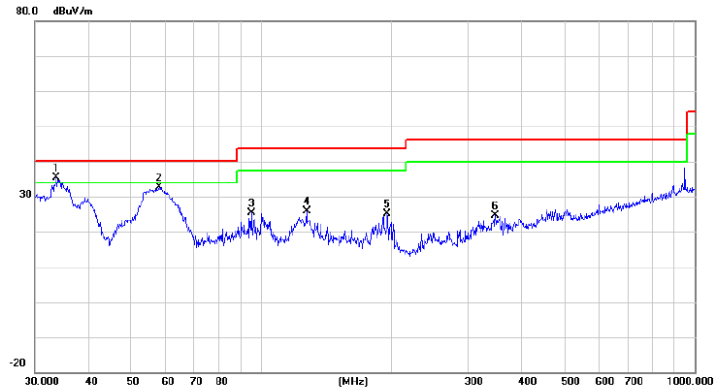
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

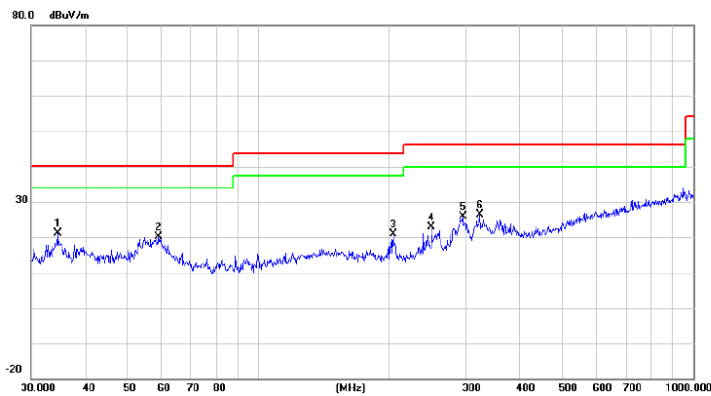
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	33.6802	47.20	-11.83	35.37	40.00	-4.63	peak		
2		57.9993	44.54	-11.90	32.64	40.00	-7.36	peak		
3		94.7601	39.56	-14.13	25.43	43.50	-18.07	peak		
4		127.2176	36.46	-10.47	25.99	43.50	-17.51	peak		
5		195.1365	36.51	-11.47	25.04	43.50	-18.46	peak		
6		346.8092	31.79	-7.06	24.73	46.00	-21.27	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	34.5172	32.83	-11.71	21.12	40.00	-18.88	peak		
2		59.0251	32.07	-12.02	20.05	40.00	-19.95	peak		
3		204.2377	32.35	-11.48	20.87	43.50	-22.63	peak		
4		250.3011	32.44	-9.60	22.84	46.00	-23.16	peak		
5		295.1468	34.32	-8.37	25.95	46.00	-20.05	peak		
6		323.3203	33.99	-7.72	26.27	46.00	-19.73	peak		

For EUT6+adapter1

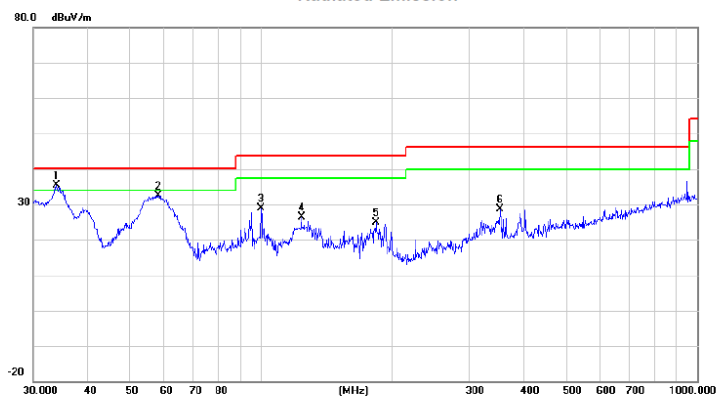
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

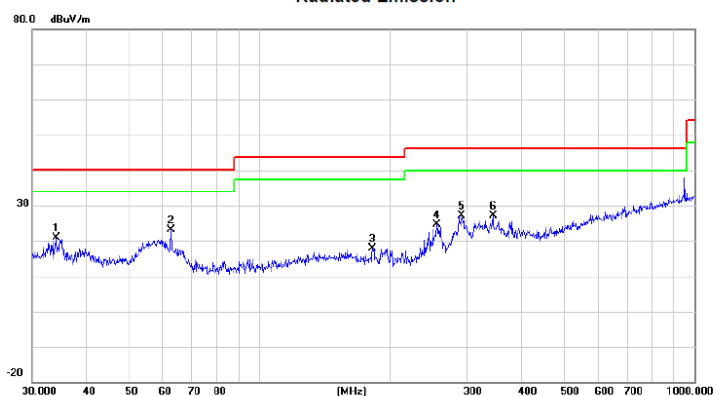
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	33.9174	47.15	-11.79	35.36	40.00	-4.64	peak		
2		58.2030	44.41	-11.93	32.48	40.00	-7.52	peak		
3		99.8777	42.49	-13.52	28.97	43.50	-14.53	peak		
4		123.6985	37.17	-10.68	26.49	43.50	-17.01	peak		
5		183.2005	35.73	-10.95	24.78	43.50	-18.72	peak		
6		352.9433	35.59	-6.91	28.68	46.00	-17.32	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		34.1560	32.73	-11.75	20.98	40.00	-19.02	peak		
2	*	62.6506	35.46	-12.36	23.10	40.00	-16.90	peak		
3		181.9202	28.89	-10.91	17.98	43.50	-25.52	peak		
4		255.6231	34.16	-9.48	24.68	46.00	-21.32	peak		
5		292.0583	35.60	-8.44	27.16	46.00	-18.84	peak		
6		344.3855	34.19	-7.12	27.07	46.00	-18.93	peak		

For EUT7+adapter1

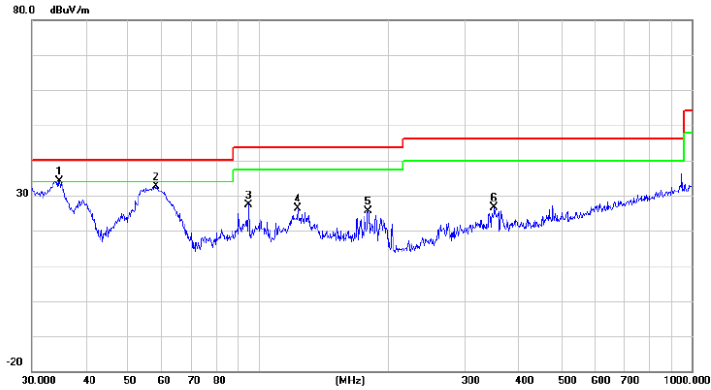
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

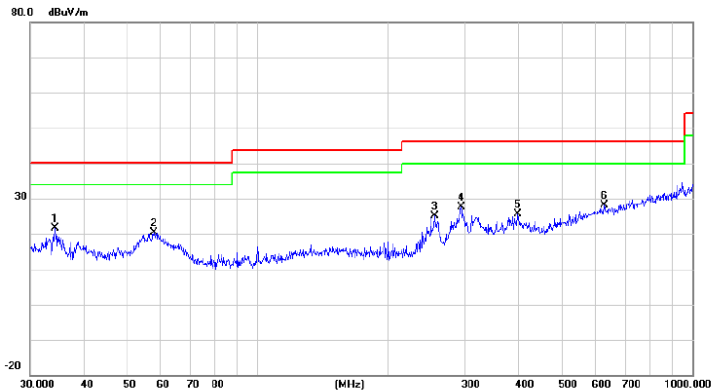
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	34.7602	45.91	-11.66	34.25	40.00	-5.75	peak		
2		57.9993	44.54	-11.90	32.64	40.00	-7.36	peak		
3		95.0930	41.36	-14.10	27.26	43.50	-16.24	peak		
4		123.2655	37.09	-10.70	26.39	43.50	-17.11	peak		
5		179.3863	36.43	-10.77	25.66	43.50	-17.84	peak		
6		350.4768	33.53	-6.97	26.56	46.00	-19.44	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		34.2760	33.31	-11.74	21.57	40.00	-18.43	peak		
2		57.7962	32.35	-11.88	20.47	40.00	-19.53	peak		
3		255.6231	34.61	-9.48	25.13	46.00	-20.87	peak		
4		294.1137	36.02	-8.39	27.63	46.00	-18.37	peak		
5		396.2415	31.49	-5.86	25.63	46.00	-20.37	peak		
6	*	627.2738	28.24	-0.18	28.06	46.00	-17.94	peak		

For EUT8+adapter1

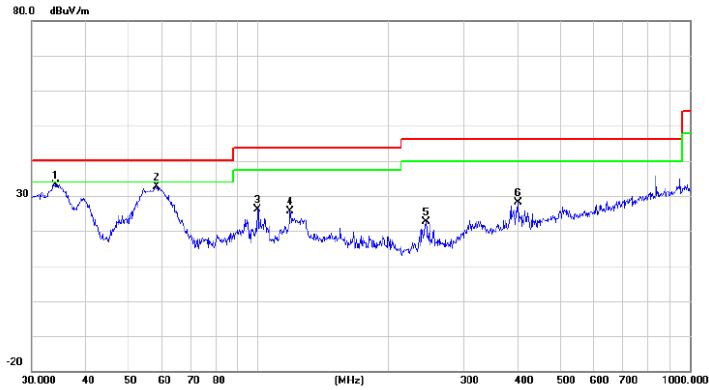
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

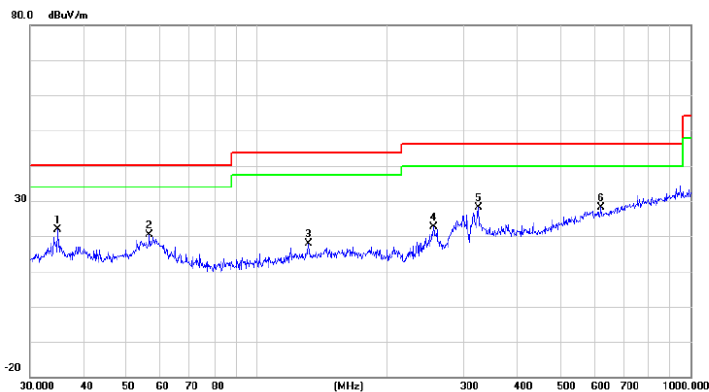
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	34.0363	45.03	-11.78	33.25	40.00	-6.75	peak			
2		58.4074	44.67	-11.95	32.72	40.00	-7.28	peak			
3		99.8777	39.68	-13.52	26.16	43.50	-17.34	peak			
4		119.0180	36.65	-11.03	25.62	43.50	-17.88	peak			
5		245.0900	32.29	-9.72	22.57	46.00	-23.43	peak			
6		400.4318	33.84	-5.76	28.08	46.00	-17.92	peak			

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		34.7602	33.64	-11.66	21.98	40.00	-18.02	peak			
2		56.5930	32.18	-11.76	20.42	40.00	-19.58	peak			
3		131.7577	28.05	-10.21	17.84	43.50	-25.66	peak			
4		255.6231	32.04	-9.48	22.56	46.00	-23.44	peak			
5	*	324.4561	35.84	-7.68	28.16	46.00	-17.84	peak			
6		622.8900	28.28	-0.25	28.03	46.00	-17.97	peak			

For EUT9+adapter1

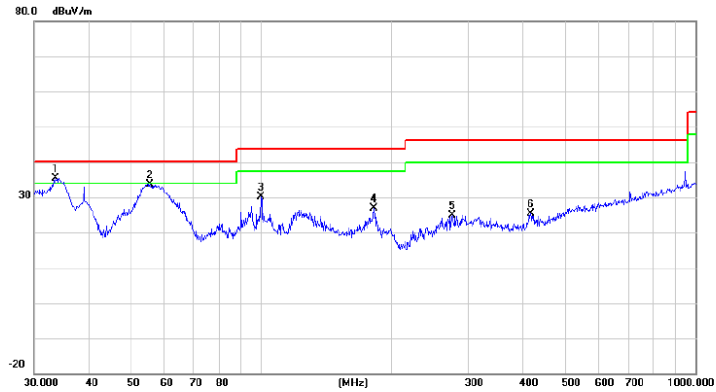
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

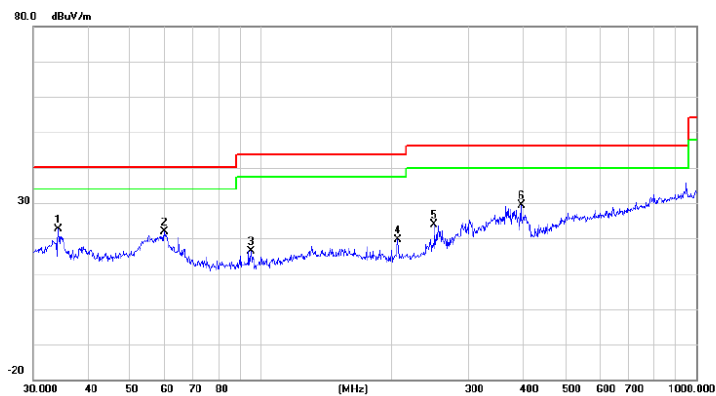
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	33.6802	47.23	-11.83	35.40	40.00	-4.60	peak		
2		55.4147	45.29	-11.62	33.67	40.00	-6.33	peak		
3		99.8777	43.61	-13.52	30.09	43.50	-13.41	peak		
4		181.9202	37.67	-10.91	26.76	43.50	-16.74	peak		
5		276.1235	33.77	-8.87	24.90	46.00	-21.10	peak		
6		417.6411	30.85	-5.37	25.48	46.00	-20.52	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		34.2760	34.44	-11.74	22.70	40.00	-17.30	peak		
2		60.0691	33.92	-12.14	21.78	40.00	-18.22	peak		
3		95.0930	30.60	-14.10	16.50	43.50	-27.00	peak		
4		206.3976	31.09	-11.36	19.73	43.50	-23.77	peak		
5		250.3012	33.46	-9.60	23.86	46.00	-22.14	peak		
6	*	396.2415	35.32	-5.86	29.46	46.00	-16.54	peak		

For EUT1+adapter2

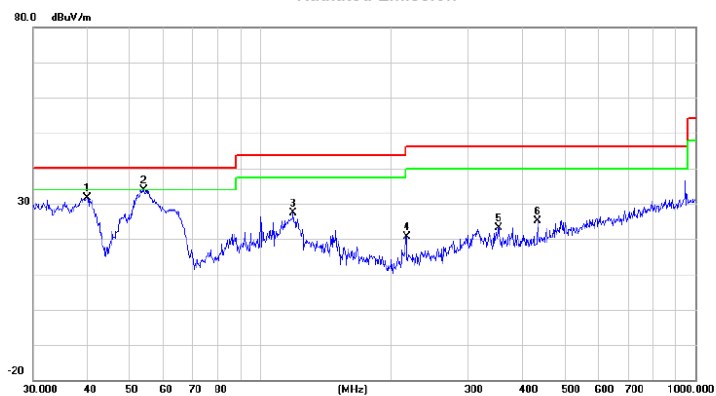
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

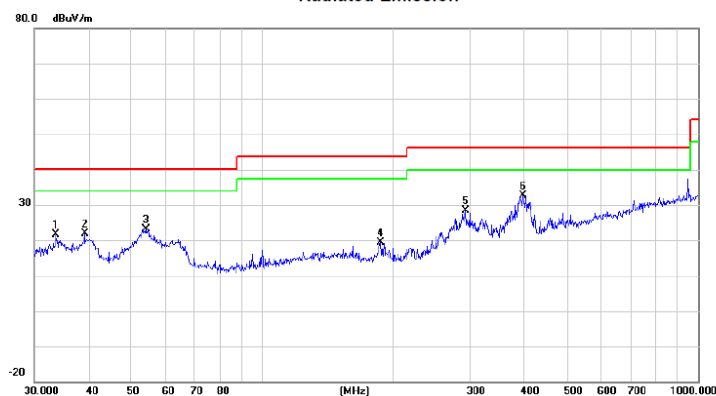
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		39.9942	42.34	-10.59	31.75	40.00	-8.25	peak	
2	*	53.8818	45.22	-11.45	33.77	40.00	-6.23	peak	
3		119.0180	38.31	-11.03	27.28	43.50	-16.22	peak	
4		216.7828	31.52	-10.88	20.64	46.00	-25.36	peak	
5		352.9433	30.07	-6.91	23.16	46.00	-22.84	peak	
6		434.0651	30.06	-4.99	25.07	46.00	-20.93	peak	

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		33.6802	33.48	-11.83	21.65	40.00	-18.35	peak	
2		39.1616	32.76	-10.76	22.00	40.00	-18.00	peak	
3		54.0711	34.70	-11.47	23.23	40.00	-16.77	peak	
4		187.0958	30.47	-11.13	19.34	43.50	-24.16	peak	
5		293.0842	36.74	-8.42	28.32	46.00	-17.68	peak	
6	*	396.2415	38.52	-5.86	32.66	46.00	-13.34	peak	

For EUT2+adapter2

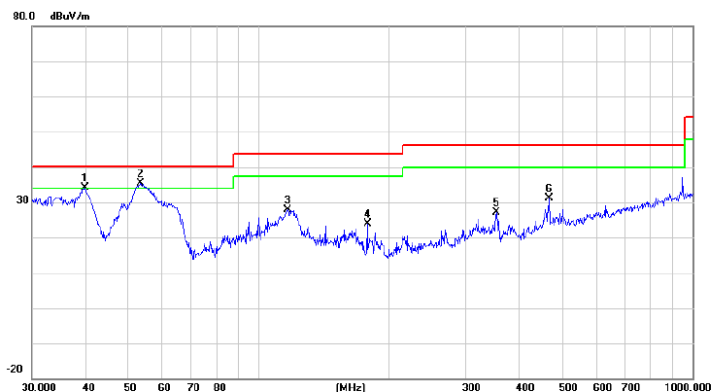
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

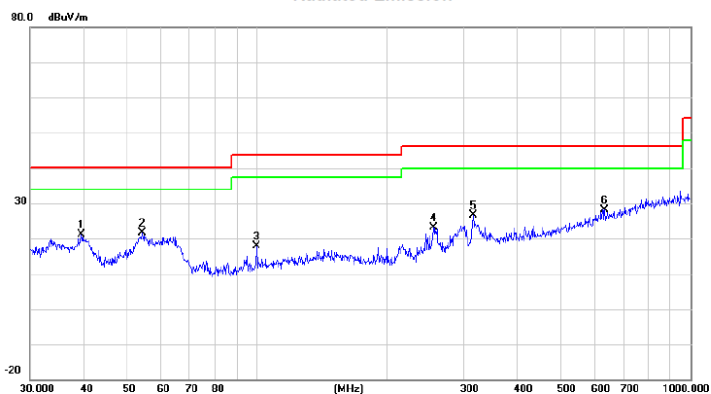
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	!	39.8542	44.79	-10.62	34.17	40.00	-5.83	peak		
2	*	53.5052	46.88	-11.41	35.47	40.00	-4.53	peak		
3		116.5400	39.14	-11.35	27.79	43.50	-15.71	peak		
4		178.1327	34.55	-10.67	23.88	43.50	-19.62	peak		
5		352.9433	33.97	-6.91	27.06	46.00	-18.94	peak		
6		467.2350	35.25	-4.23	31.02	46.00	-14.98	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		39.4371	31.79	-10.71	21.08	40.00	-18.92	peak		
2		54.4516	33.06	-11.51	21.55	40.00	-18.45	peak		
3		99.8777	31.38	-13.52	17.86	43.50	-25.64	peak		
4		255.6231	32.57	-9.48	23.09	46.00	-22.91	peak		
5		315.4808	34.43	-7.91	26.52	46.00	-19.48	peak		
6	*	633.9073	28.24	-0.08	28.16	46.00	-17.84	peak		

For EUT3+adapter2

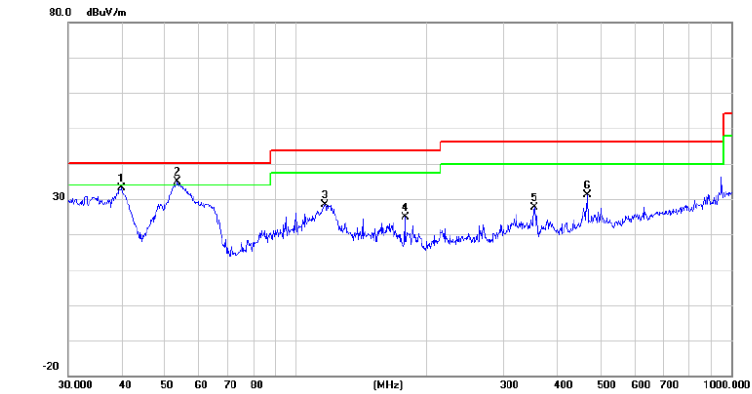
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

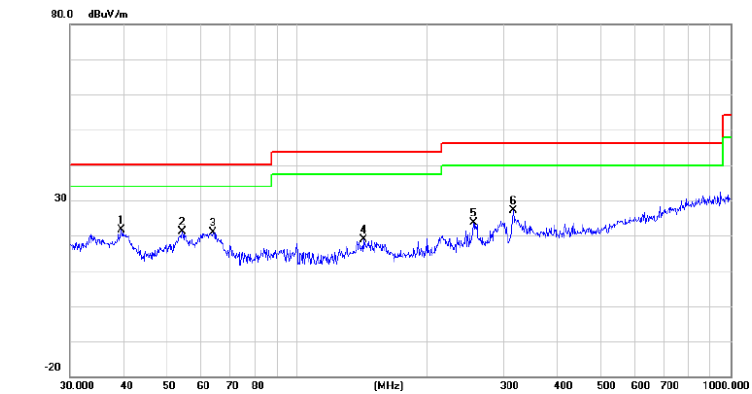
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		39.8541	43.79	-10.62	33.17	40.00	-6.83	peak	
2	*	53.5052	46.38	-11.41	34.97	40.00	-5.03	peak	
3		116.5400	39.64	-11.35	28.29	43.50	-15.21	peak	
4		178.1324	35.55	-10.67	24.88	43.50	-18.62	peak	
5		352.9433	34.47	-6.91	27.56	46.00	-18.44	peak	
6		467.2350	35.25	-4.23	31.02	46.00	-14.98	peak	

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	39.4371	32.29	-10.71	21.58	40.00	-18.42	peak	
2		54.4515	32.56	-11.51	21.05	40.00	-18.95	peak	
3		64.2074	33.47	-12.48	20.99	40.00	-19.01	peak	
4		142.3242	28.67	-9.67	19.00	43.50	-24.50	peak	
5		255.6230	33.07	-9.48	23.59	46.00	-22.41	peak	
6		315.4806	34.93	-7.91	27.02	46.00	-18.98	peak	

For EUT4+adapter2

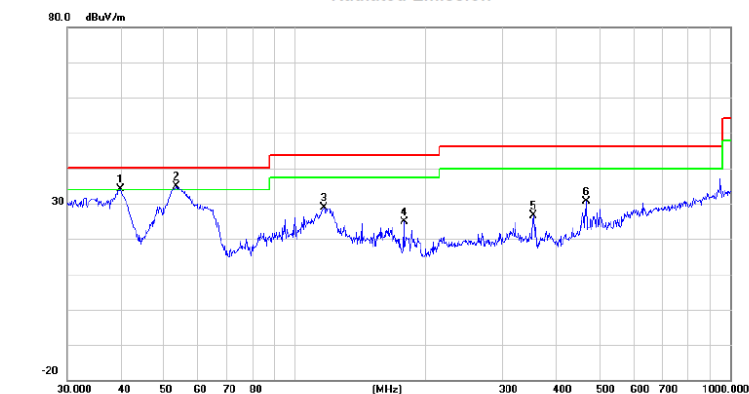
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

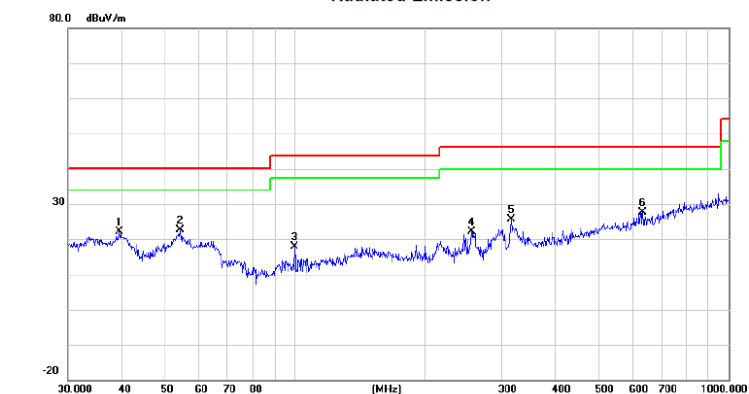
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	I	39.8541	44.79	-10.62	34.17	40.00	-5.83	peak		
2	*	53.5052	46.38	-11.41	34.97	40.00	-5.03	peak		
3		116.5400	40.14	-11.35	28.79	43.50	-14.71	peak		
4		178.1322	35.55	-10.67	24.88	43.50	-18.62	peak		
5		352.9433	33.47	-6.91	26.56	46.00	-19.44	peak		
6		467.2350	34.75	-4.23	30.52	46.00	-15.48	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		39.4371	32.79	-10.71	22.08	40.00	-17.92	peak		
2	*	54.4515	34.06	-11.51	22.55	40.00	-17.45	peak		
3		99.8777	31.38	-13.52	17.86	43.50	-25.64	peak		
4		255.6230	31.57	-9.48	22.09	46.00	-23.91	peak		
5		315.4806	33.43	-7.91	25.52	46.00	-20.48	peak		
6		633.9071	27.74	-0.08	27.66	46.00	-18.34	peak		

For EUT5+adapter2

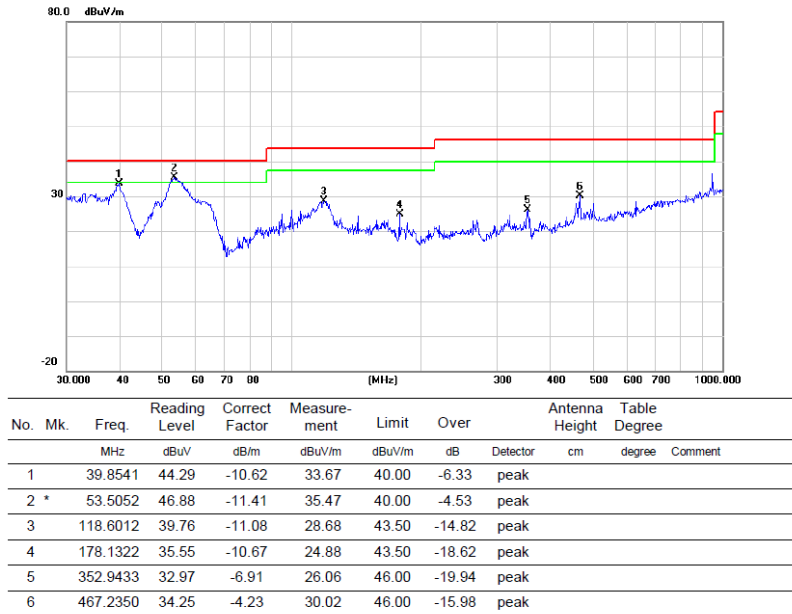
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

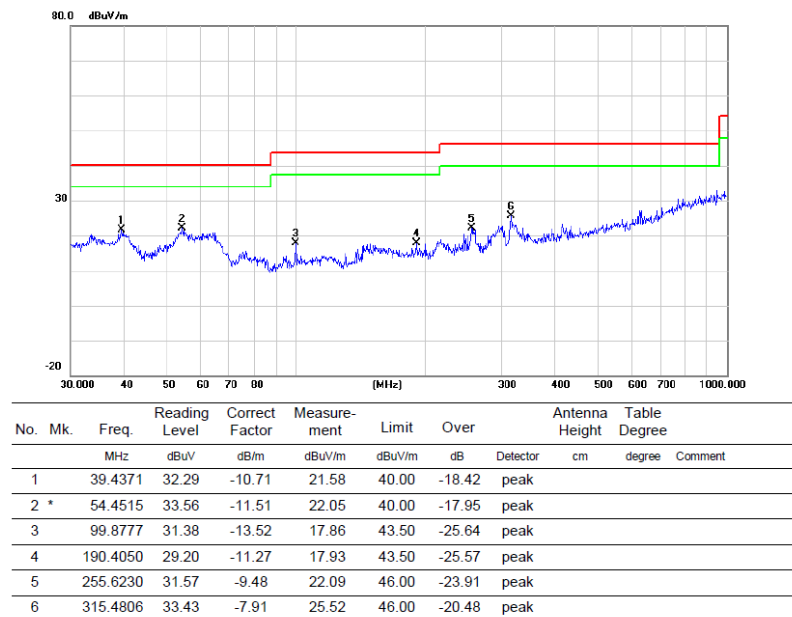
VERTICAL

Radiated Emission



HORIZONTAL

Radiated Emission



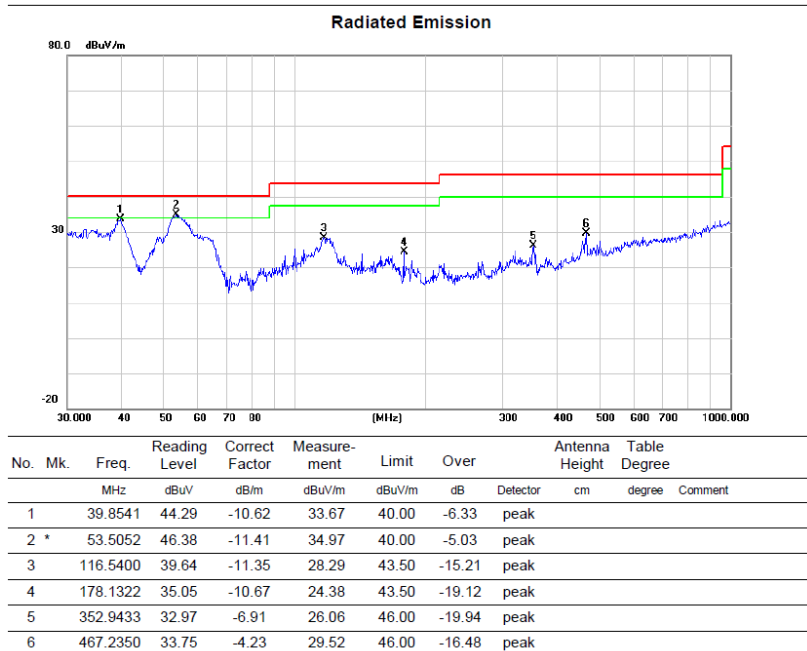
For EUT6+adapter2

We only recorded the data of the worst mode. Please see the following:

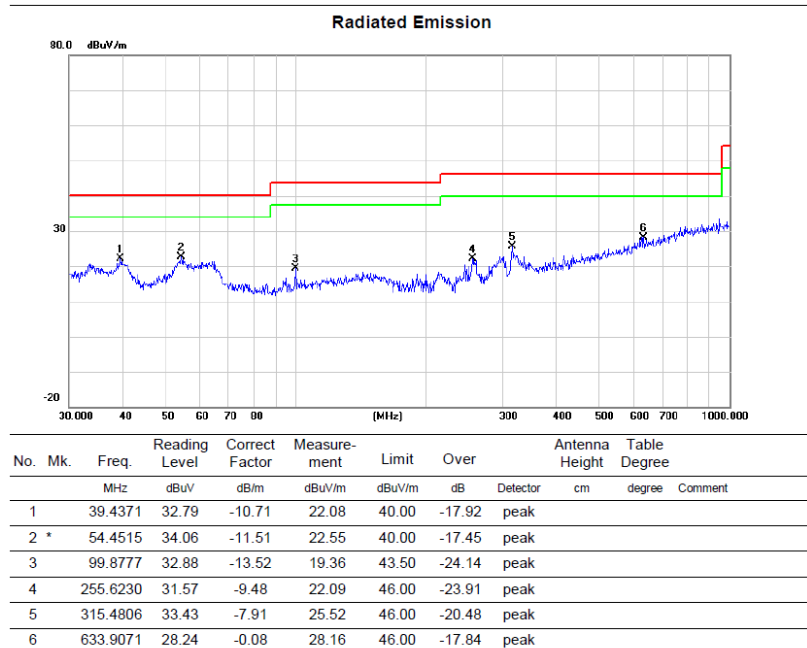
Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL



HORIZONTAL



For EUT7+adapter2

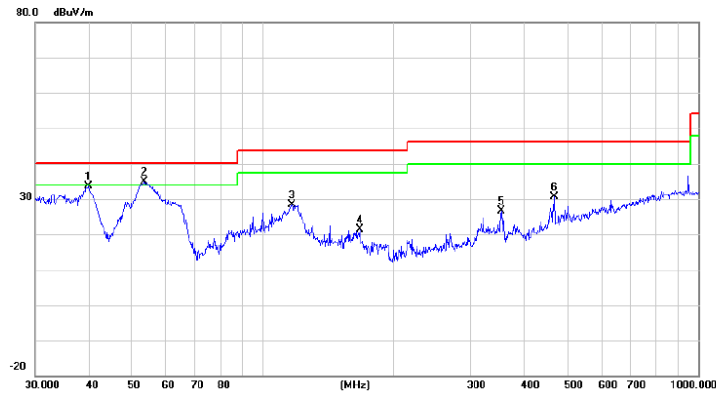
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

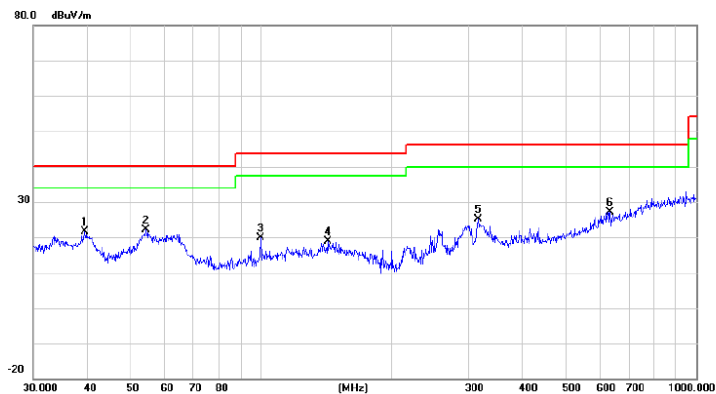
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		39.8541	44.29	-10.62	33.67	40.00	-6.33	peak		
2	*	53.5052	46.38	-11.41	34.97	40.00	-5.03	peak		
3		116.5400	39.64	-11.35	28.29	43.50	-15.21	peak		
4		167.2366	31.22	-9.84	21.38	43.50	-22.12	peak		
5		352.9433	33.47	-6.91	26.56	46.00	-19.44	peak		
6		467.2350	34.75	-4.23	30.52	46.00	-15.48	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		39.4371	32.29	-10.71	21.58	40.00	-18.42	peak		
2	*	54.4515	33.56	-11.51	22.05	40.00	-17.95	peak		
3		99.8777	33.38	-13.52	19.86	43.50	-23.64	peak		
4		142.3240	28.67	-9.67	19.00	43.50	-24.50	peak		
5		315.4806	32.93	-7.91	25.02	46.00	-20.98	peak		
6		633.9071	27.24	-0.08	27.16	46.00	-18.84	peak		

For EUT8+adapter2

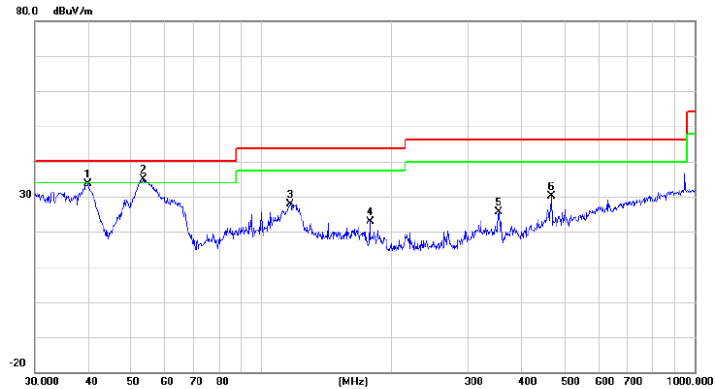
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

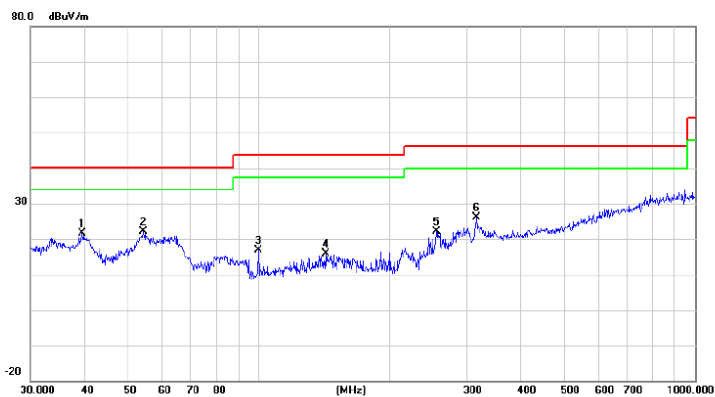
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		39.8541	44.29	-10.62	33.67	40.00	-6.33	peak		
2 *		53.5052	46.38	-11.41	34.97	40.00	-5.03	peak		
3		116.5400	39.14	-11.35	27.79	43.50	-15.71	peak		
4		178.1322	33.55	-10.67	22.88	43.50	-20.62	peak		
5		352.9433	32.47	-6.91	25.56	46.00	-20.44	peak		
6		467.2350	34.25	-4.23	30.02	46.00	-15.98	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		39.4371	32.29	-10.71	21.58	40.00	-18.42	peak		
2 *		54.4515	33.56	-11.51	22.05	40.00	-17.95	peak		
3		99.8777	30.38	-13.52	16.86	43.50	-26.64	peak		
4		142.3240	25.67	-9.67	16.00	43.50	-27.50	peak		
5		255.6230	31.57	-9.48	22.09	46.00	-23.91	peak		
6		315.4806	33.93	-7.91	26.02	46.00	-19.98	peak		

For EUT9+adapter2

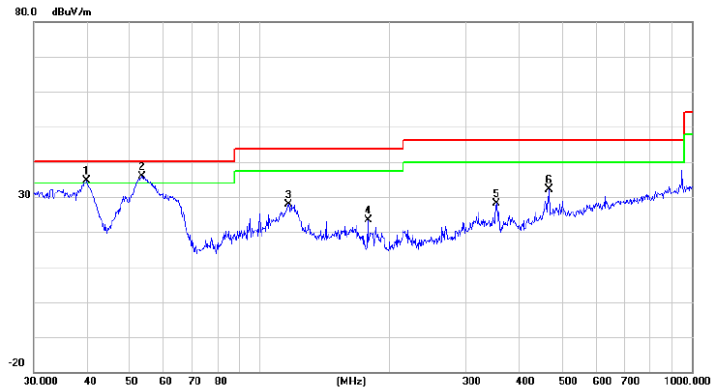
We only recorded the data of the worst mode. Please see the following:

Below 1G (30MHz~1GHz)

Worst Case Operating Mode: Simultaneous transmitting

VERTICAL

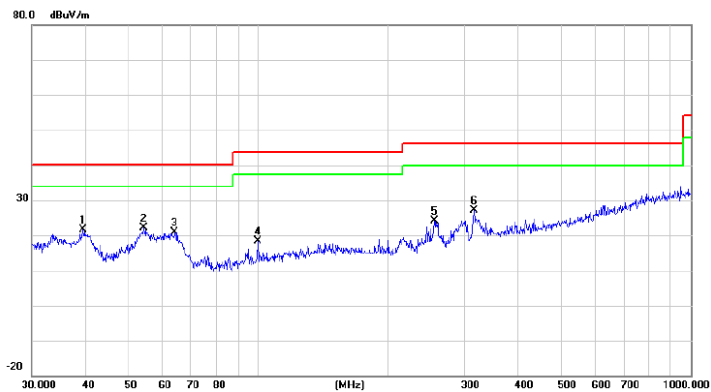
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	!	39.8541	45.29	-10.62	34.67	40.00	-5.33	peak		
2	*	53.5052	47.38	-11.41	35.97	40.00	-4.03	peak		
3		116.5400	39.14	-11.35	27.79	43.50	-15.71	peak		
4		178.1322	34.05	-10.67	23.38	43.50	-20.12	peak		
5		352.9433	34.97	-6.91	28.06	46.00	-17.94	peak		
6		467.2350	36.25	-4.23	32.02	46.00	-13.98	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		39.4371	32.29	-10.71	21.58	40.00	-18.42	peak		
2	*	54.4515	33.56	-11.51	22.05	40.00	-17.95	peak		
3		64.2074	33.47	-12.48	20.99	40.00	-19.01	peak		
4		99.8777	31.88	-13.52	18.36	43.50	-25.14	peak		
5		255.6230	33.57	-9.48	24.09	46.00	-21.91	peak		
6		315.4806	34.93	-7.91	27.02	46.00	-18.98	peak		

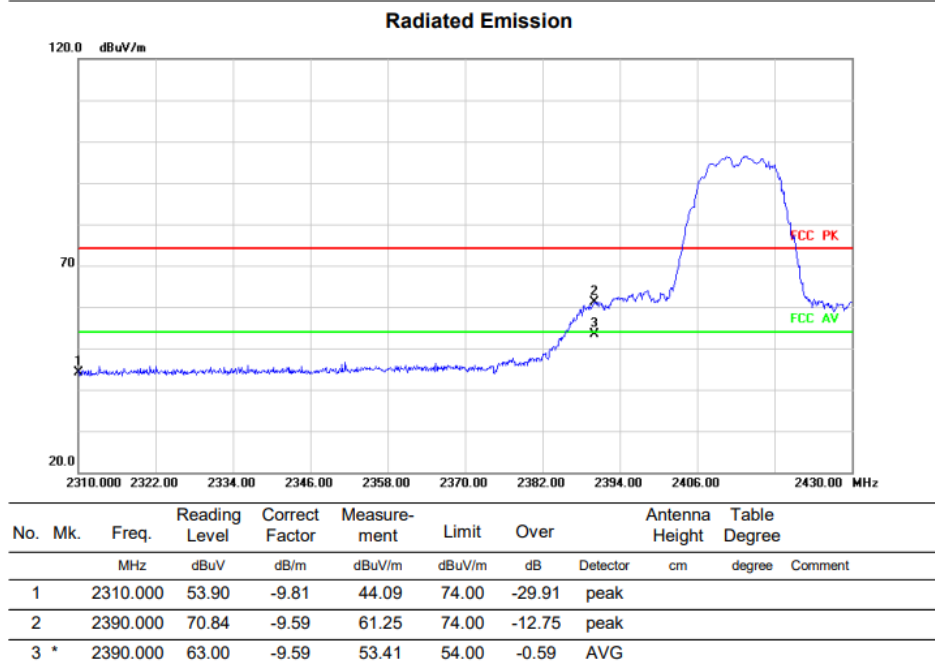
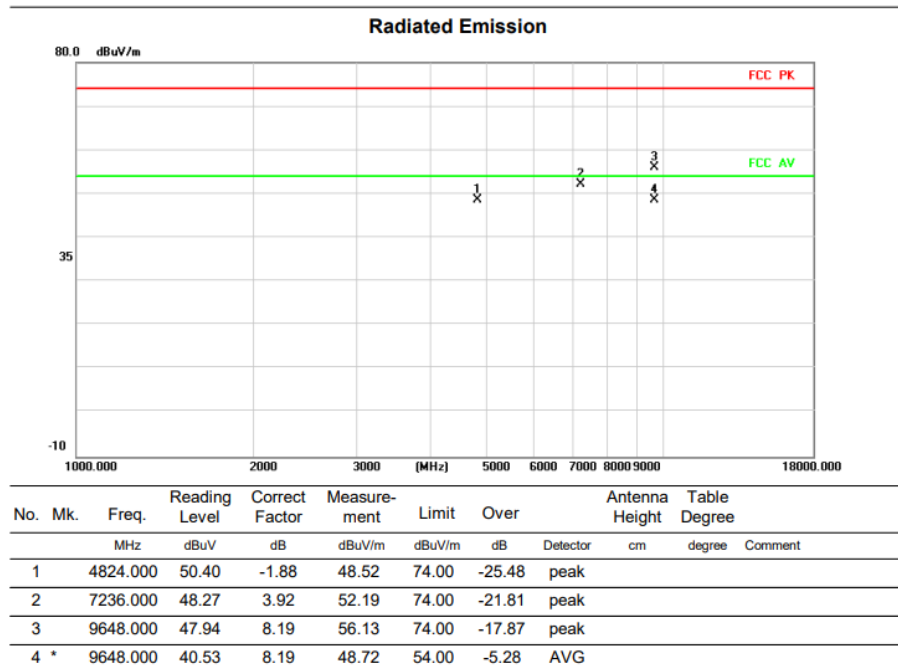
3) Radiated emission: Above 1G

Note:

1. Measurement = Reading + Correct Factor.
 2. Over = Measurement – Limit
 3. For 802.11B and 802.11G modes, only worst case for antenna1 were recored.
 4. Pre-scan beamform mode and non-beamform mode, worst case for non-beamform mode is recorded.
- EUT1

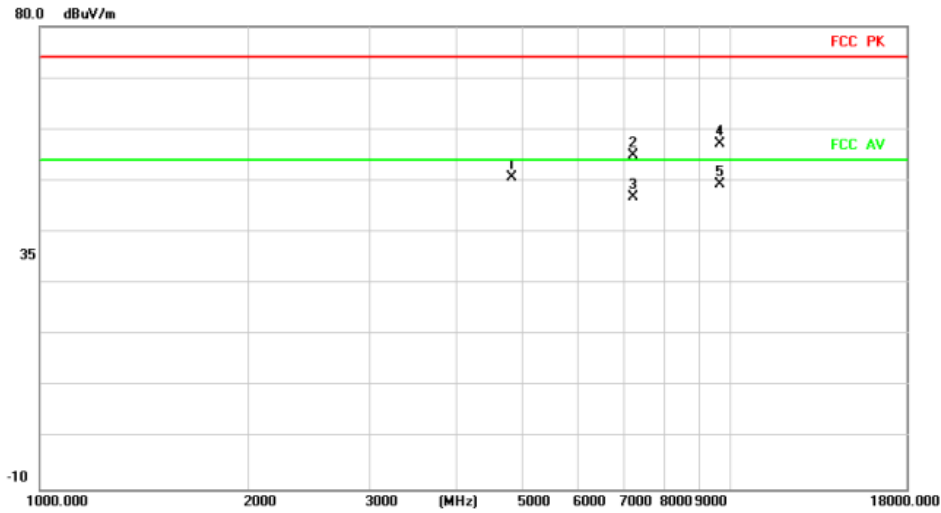
Above 1G (1GHz~18GHz)	Test mode:11B	Test Channel:1
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VERTICAL



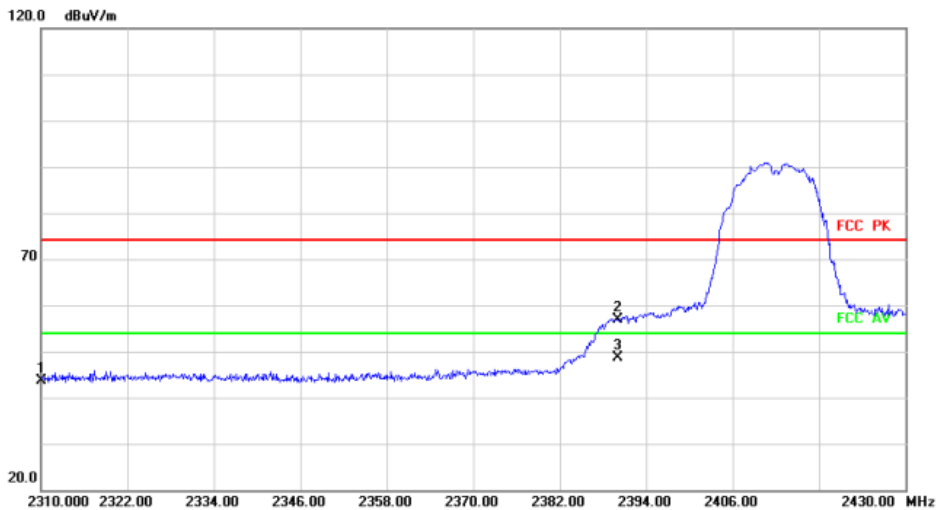
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4824.000	52.57	-1.88	50.69	74.00	-23.31	peak		
2		7236.000	51.02	3.92	54.94	74.00	-19.06	peak		
3		7236.000	42.84	3.92	46.76	54.00	-7.24	AVG		
4		9648.000	48.97	8.19	57.16	74.00	-16.84	peak		
5 *		9648.000	41.13	8.19	49.32	54.00	-4.68	AVG		

Radiated Emission



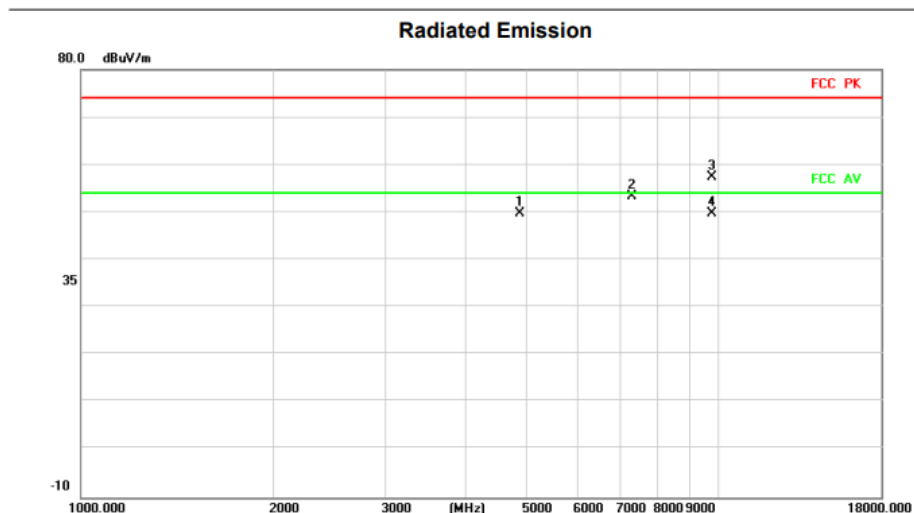
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	53.49	-9.81	43.68	74.00	-30.32	peak		
2		2390.000	66.50	-9.59	56.91	74.00	-17.09	peak		
3 *		2390.000	58.33	-9.59	48.74	54.00	-5.26	AVG		

Above 1G (1GHz~18GHz)

Test mode: 11B

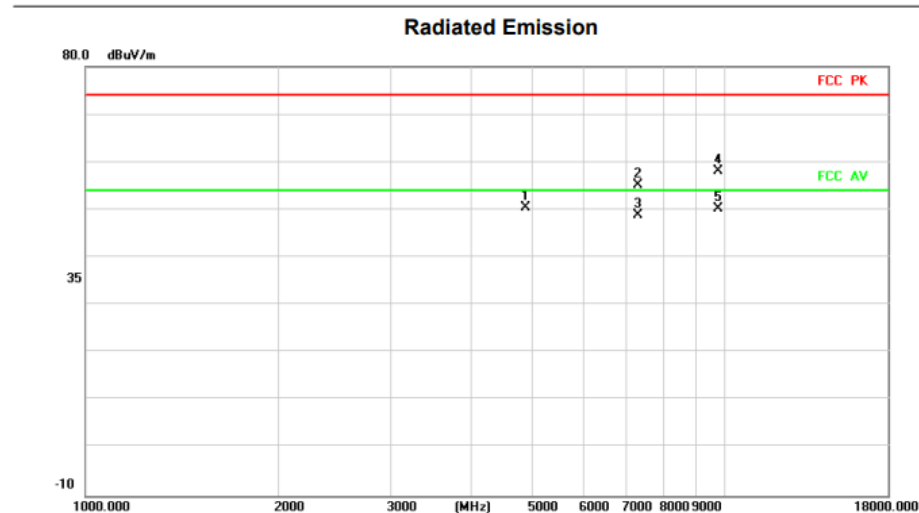
Test Channel: 6

VERTICAL



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4874.000	51.31	-1.59	49.72	74.00	-24.28	peak		
2		7311.000	49.41	4.01	53.42	74.00	-20.58	peak		
3		9748.000	49.79	7.64	57.43	74.00	-16.57	peak		
4 *		9748.000	42.08	7.64	49.72	54.00	-4.28	AVG		

HORIZONTAL



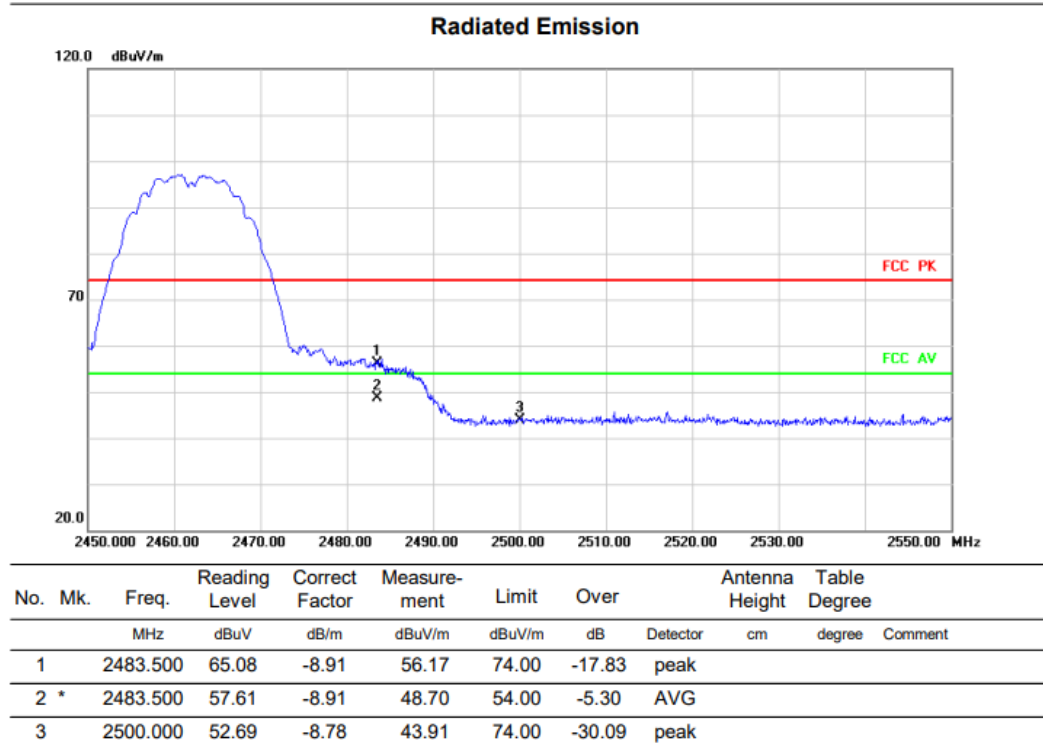
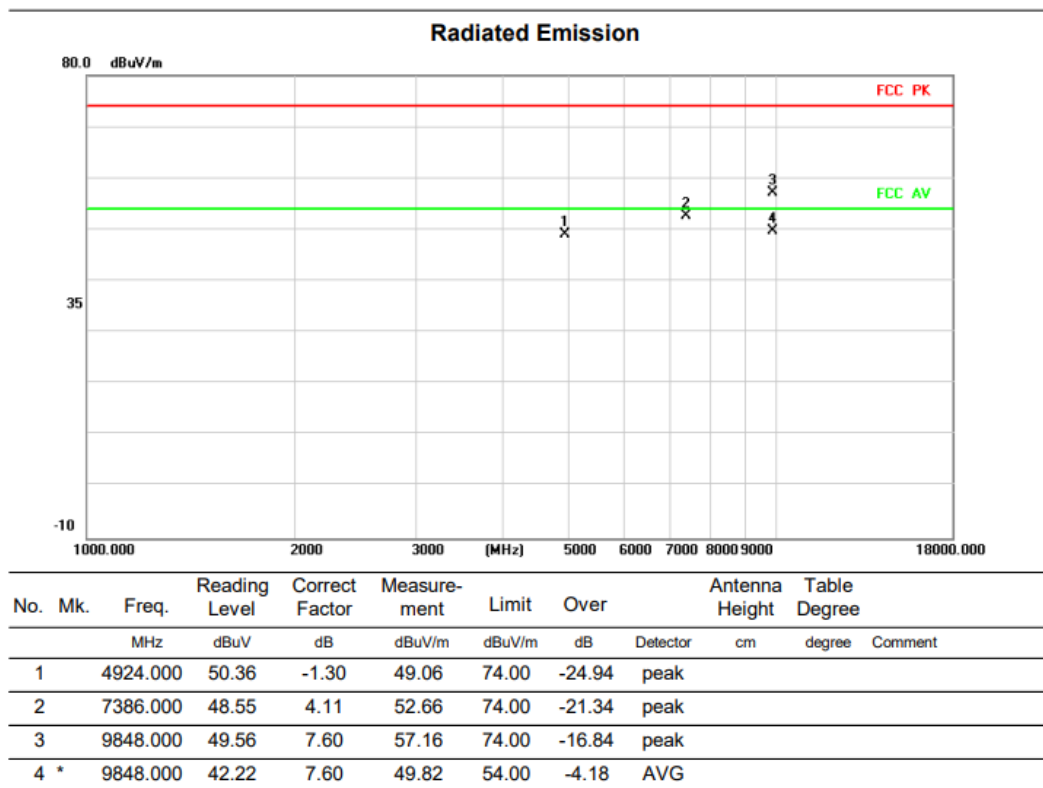
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4874.000	52.05	-1.59	50.46	74.00	-23.54	peak		
2		7311.000	51.20	4.01	55.21	74.00	-18.79	peak		
3		7311.000	44.72	4.01	48.73	54.00	-5.27	AVG		
4		9748.000	50.47	7.64	58.11	74.00	-15.89	peak		
5 *		9748.000	42.45	7.64	50.09	54.00	-3.91	AVG		

Above 1G (1GHz~18GHz)

Test mode: 11B

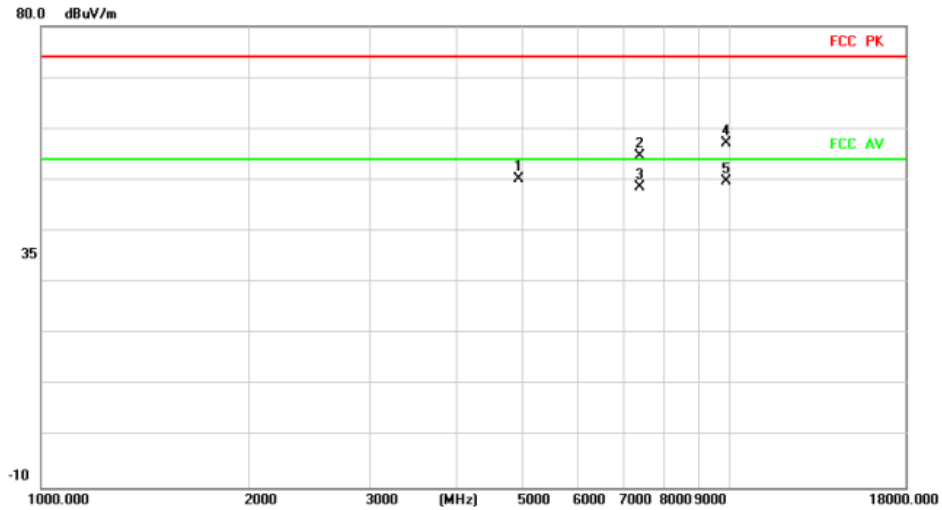
Test Channel:11

VERTICAL

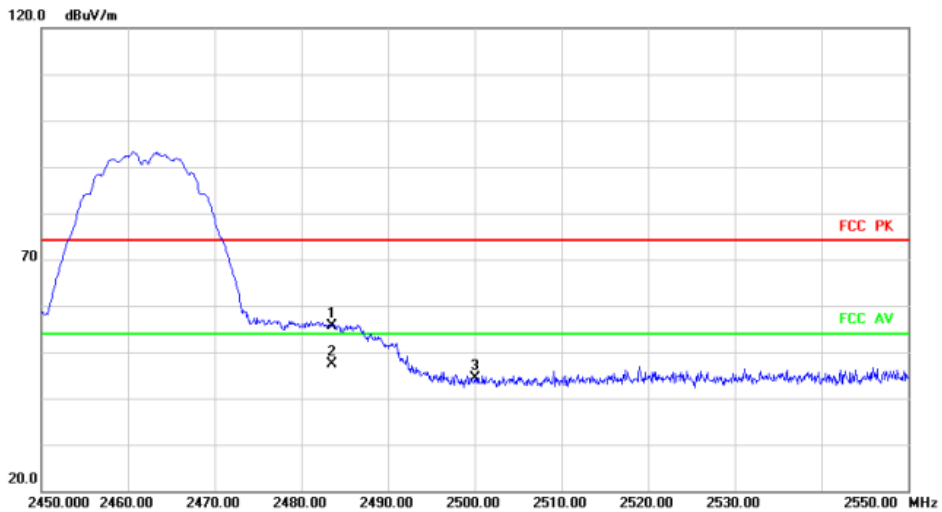


HORIZONTAL

Radiated Emission



Radiated Emission



Above 1G (1GHz~18GHz)

Test mode:11G

Test Channel:1

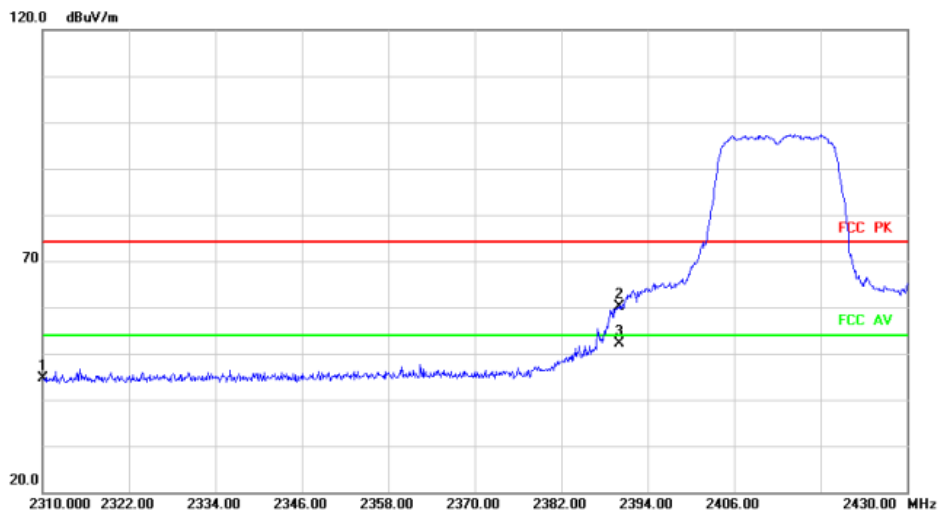
VERTICAL

Radiated Emission



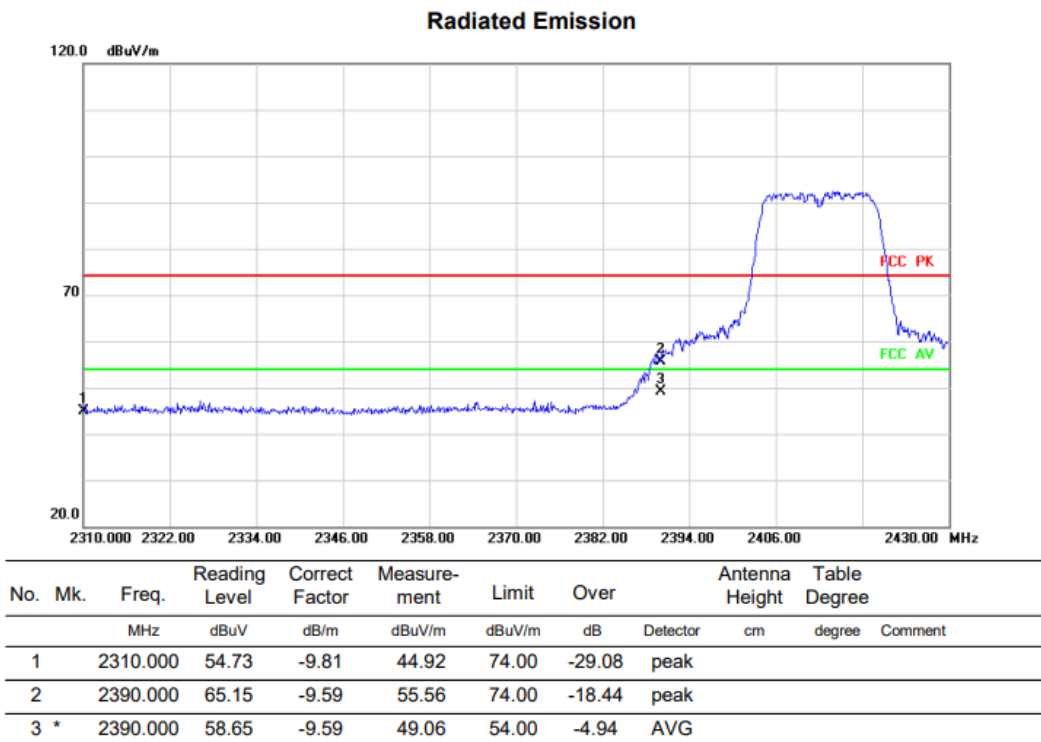
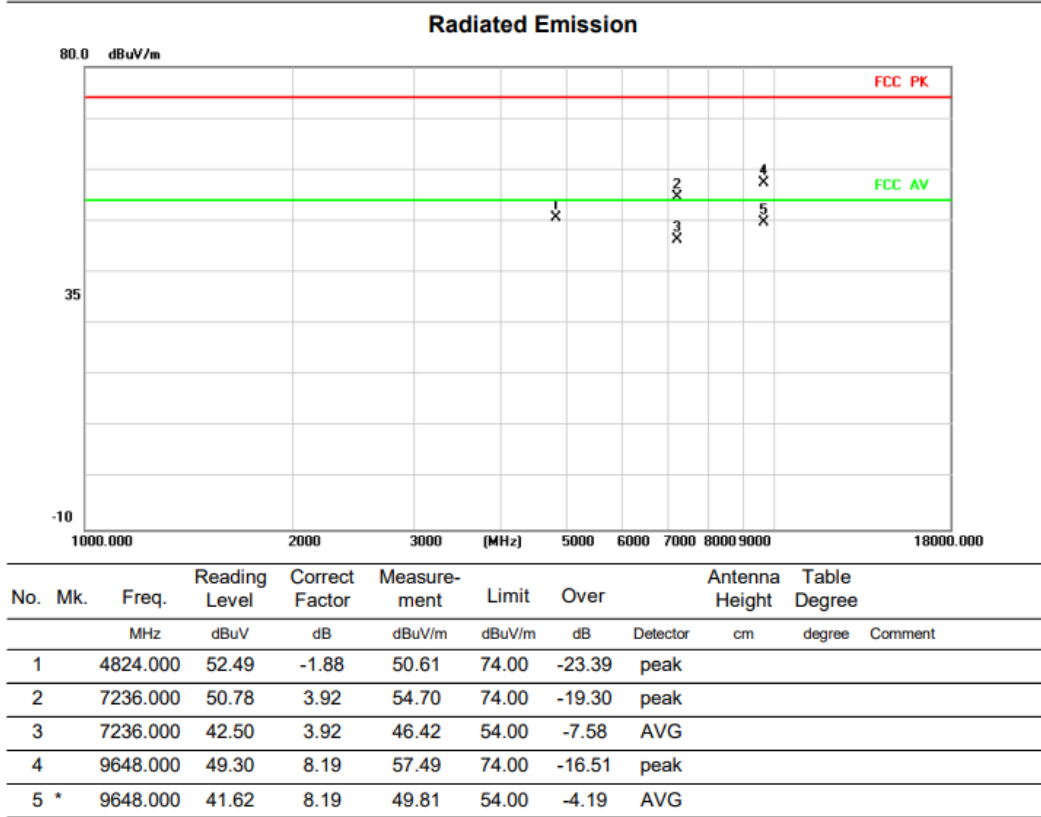
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4824.000	50.04	-1.88	48.16	74.00	-25.84	peak		
2		7236.000	49.16	3.92	53.08	74.00	-20.92	peak		
3		9648.000	48.92	8.19	57.11	74.00	-16.89	peak		
4 *		9648.000	41.34	8.19	49.53	54.00	-4.47	AVG		

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	54.45	-9.81	44.64	74.00	-29.36	peak		
2		2390.000	69.65	-9.59	60.06	74.00	-13.94	peak		
3 *		2390.000	61.80	-9.59	52.21	54.00	-1.79	AVG		

HORIZONTAL



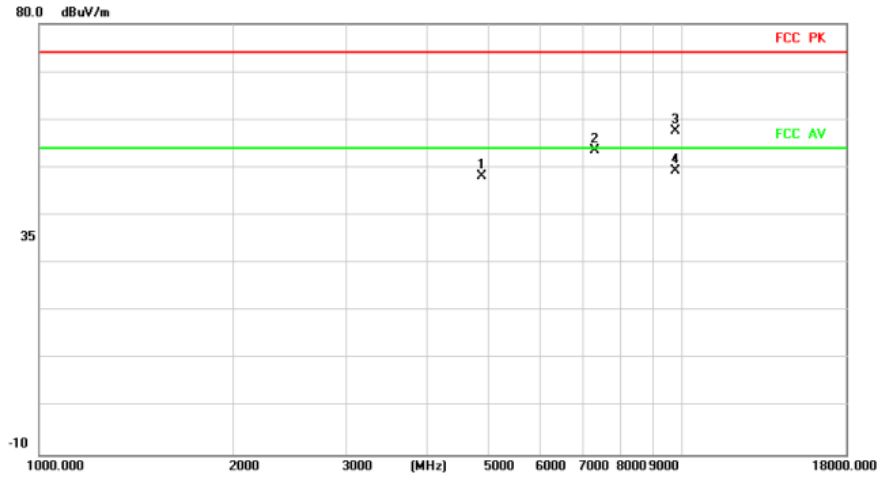
Above 1G (1GHz~18GHz)

Test mode: 11G

Test Channel: 6

VERTICAL

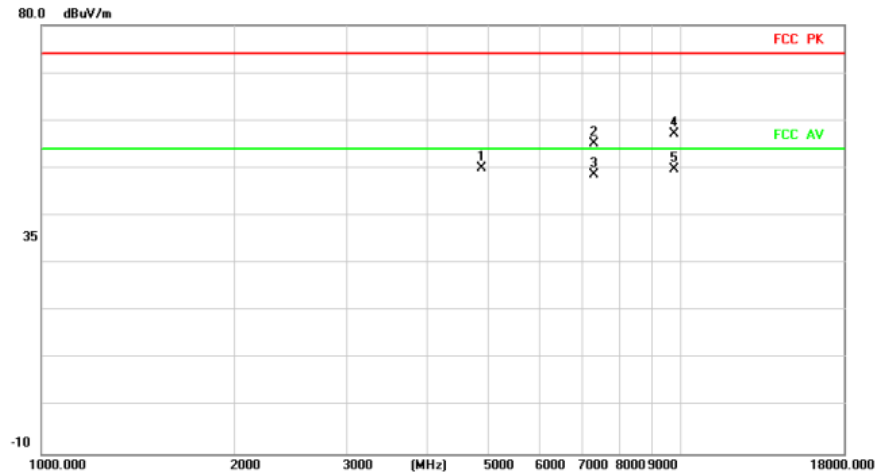
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4874.000	49.85	-1.59	48.26	74.00	-25.74	peak		
2		7311.000	49.48	4.01	53.49	74.00	-20.51	peak		
3		9748.000	49.95	7.64	57.59	74.00	-16.41	peak		
4 *		9748.000	41.54	7.64	49.18	54.00	-4.82	AVG		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4874.000	51.47	-1.59	49.88	74.00	-24.12	peak		
2		7311.000	51.11	4.01	55.12	74.00	-18.88	peak		
3		7311.000	44.69	4.01	48.70	54.00	-5.30	AVG		
4		9748.000	49.55	7.64	57.19	74.00	-16.81	peak		
5 *		9748.000	42.18	7.64	49.82	54.00	-4.18	AVG		

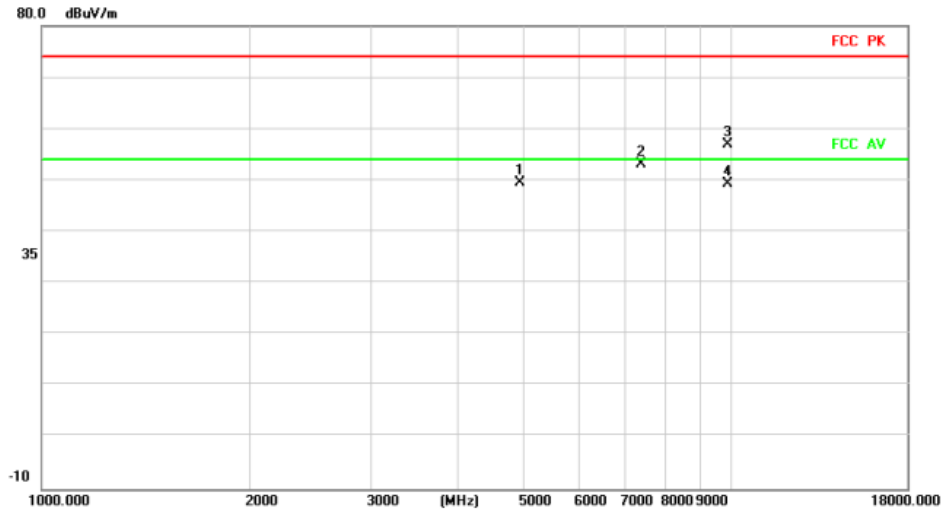
Above 1G (1GHz~18GHz)

Test mode: 11G

Test Channel:11

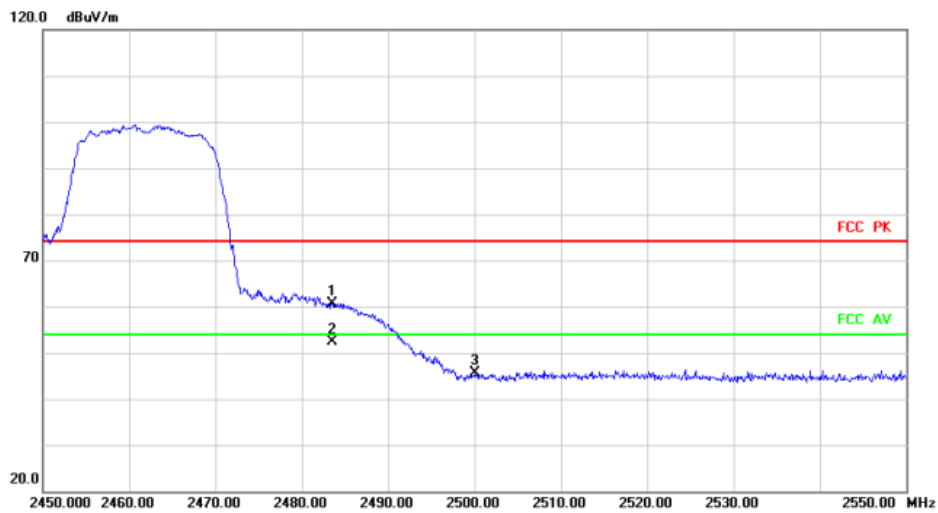
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4924.000	50.82	-1.30	49.52	74.00	-24.48	peak		
2		7386.000	49.06	4.11	53.17	74.00	-20.83	peak		
3		9848.000	49.44	7.60	57.04	74.00	-16.96	peak		
4 *		9848.000	41.60	7.60	49.20	54.00	-4.80	AVG		

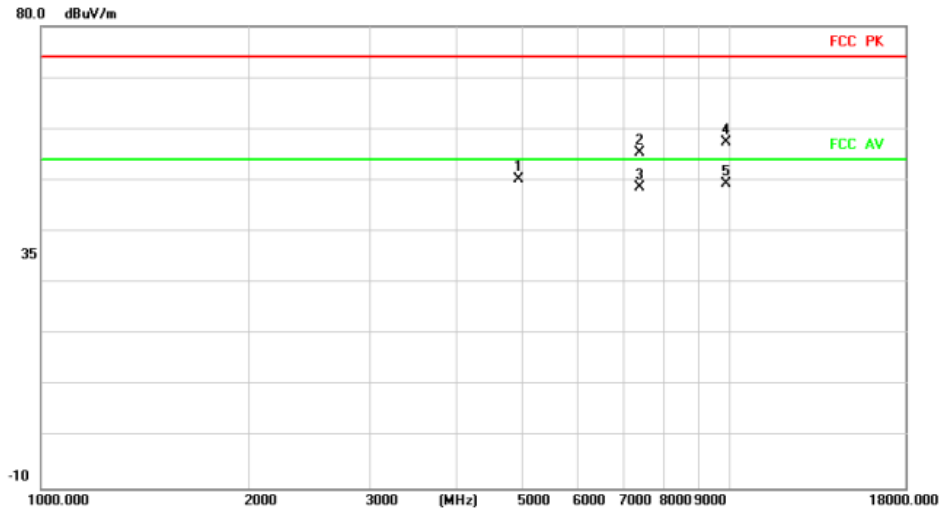
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	69.63	-8.91	60.72	74.00	-13.28	peak		
2 *		2483.500	61.34	-8.91	52.43	54.00	-1.57	AVG		
3		2500.000	54.42	-8.78	45.64	74.00	-28.36	peak		

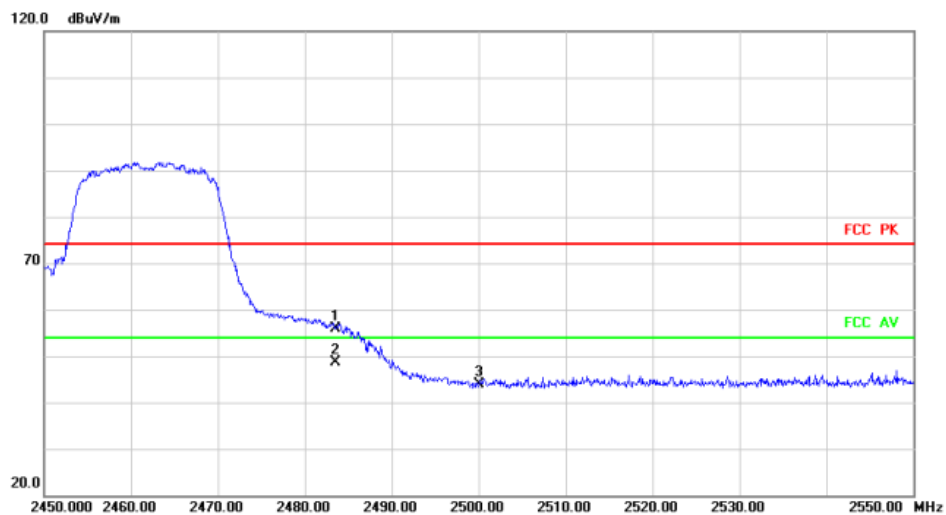
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		4924.000	51.49	-1.30	50.19	74.00	-23.81	peak	
2		7386.000	51.17	4.11	55.28	74.00	-18.72	peak	
3		7386.000	44.50	4.11	48.61	54.00	-5.39	AVG	
4		9848.000	49.88	7.60	57.48	74.00	-16.52	peak	
5 *		9848.000	41.64	7.60	49.24	54.00	-4.76	AVG	

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	64.70	-8.91	55.79	74.00	-18.21	peak	
2 *		2483.500	57.57	-8.91	48.66	54.00	-5.34	AVG	
3		2500.000	52.75	-8.78	43.97	74.00	-30.03	peak	

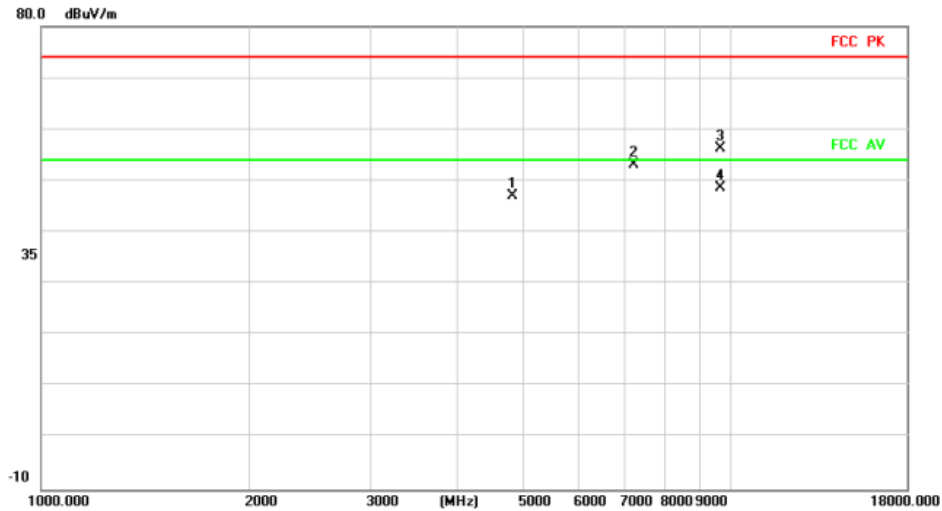
Above 1G (1GHz~18GHz)

Test mode: 11N20MIMO

Test Channel:1

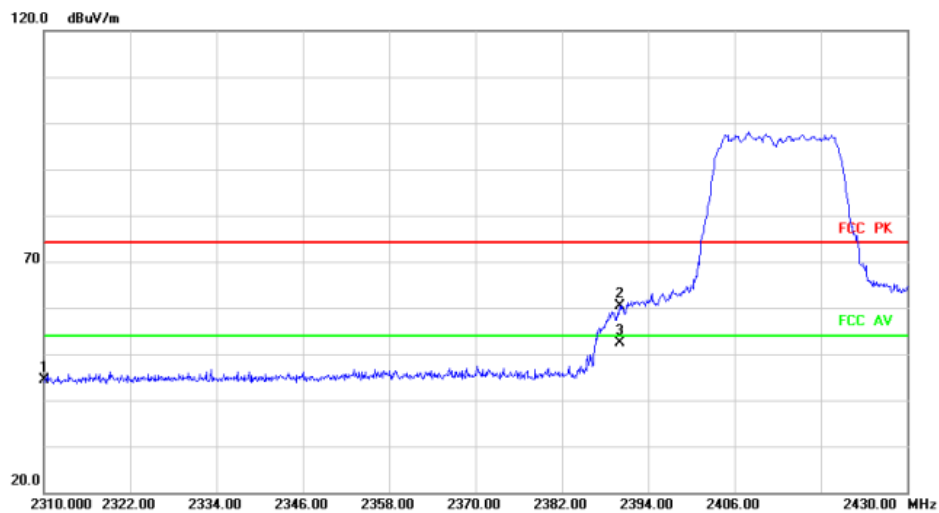
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		4824.000	48.99	-1.88	47.11	74.00	-26.89	peak	
2		7236.000	49.27	3.92	53.19	74.00	-20.81	peak	
3		9648.000	48.02	8.19	56.21	74.00	-17.79	peak	
4 *		9648.000	40.35	8.19	48.54	54.00	-5.46	AVG	

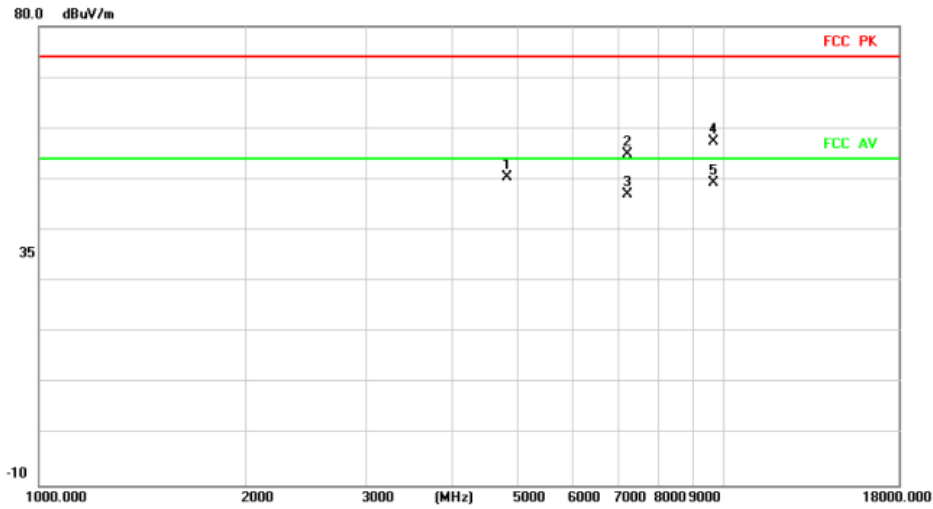
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	54.11	-9.81	44.30	74.00	-29.70	peak	
2		2390.000	69.87	-9.59	60.28	74.00	-13.72	peak	
3 *		2390.000	62.07	-9.59	52.48	54.00	-1.52	AVG	

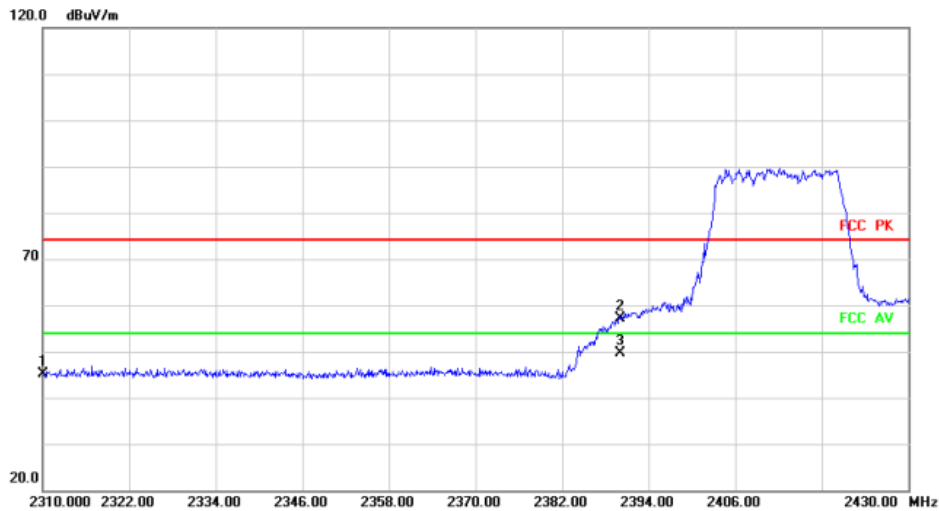
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		4824.000	52.20	-1.88	50.32	74.00	-23.68	peak	
2		7236.000	50.99	3.92	54.91	74.00	-19.09	peak	
3		7236.000	43.16	3.92	47.08	54.00	-6.92	AVG	
4		9648.000	49.25	8.19	57.44	74.00	-16.56	peak	
5 *		9648.000	41.02	8.19	49.21	54.00	-4.79	AVG	

Radiated Emission



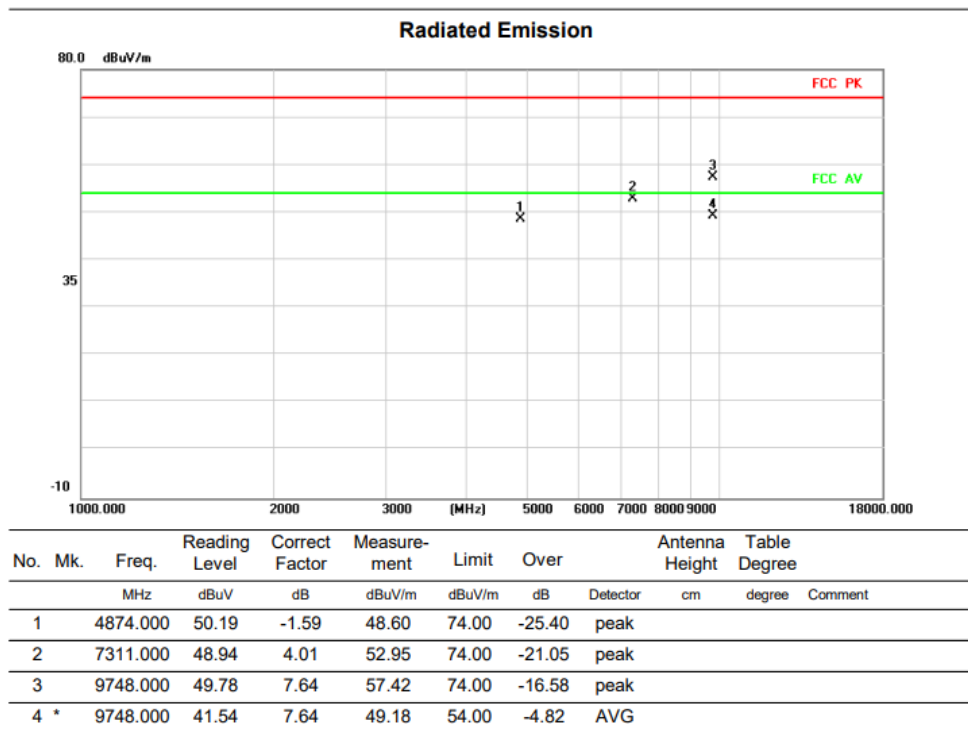
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	54.89	-9.81	45.08	74.00	-28.92	peak	
2		2390.000	66.75	-9.59	57.16	74.00	-16.84	peak	
3 *		2390.000	59.31	-9.59	49.72	54.00	-4.28	AVG	

Above 1G (1GHz~18GHz)

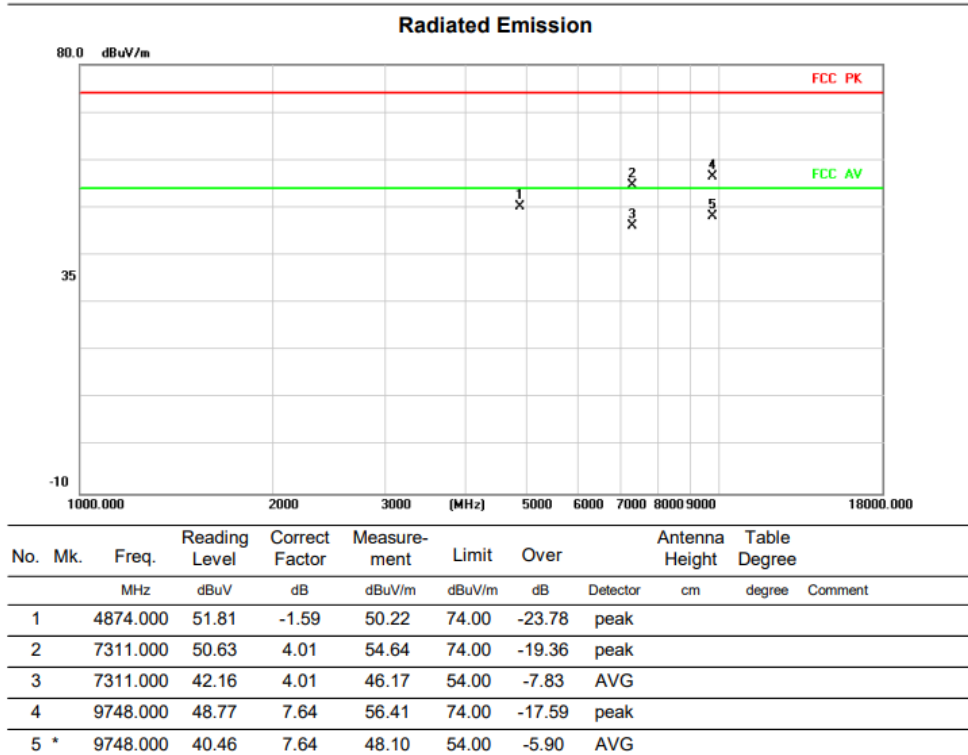
Test mode: 11N20MIMO

Test Channel: 6

VERTICAL



HORIZONTAL

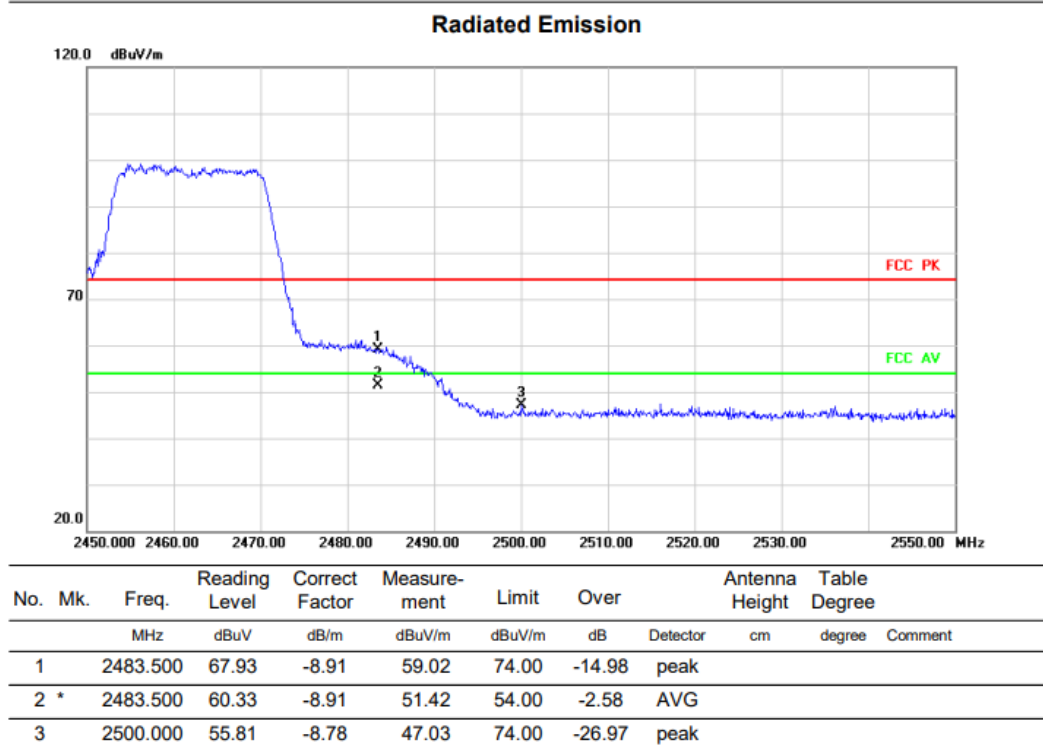
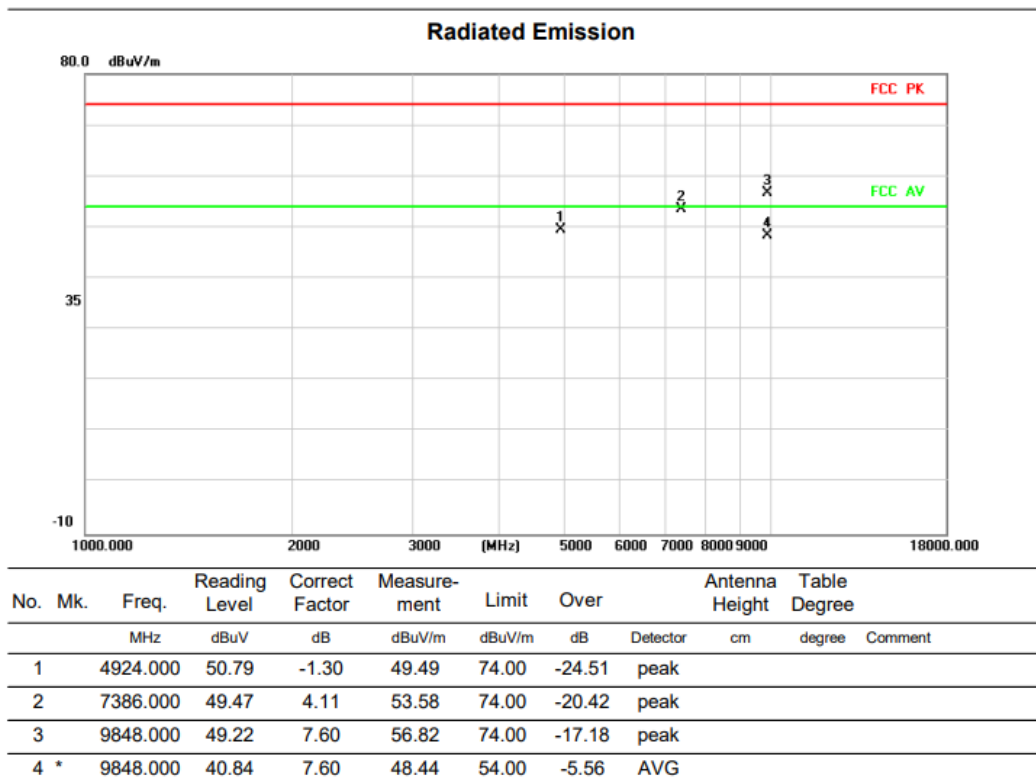


Above 1G (1GHz~18GHz)

Test mode: 11N20MIMO

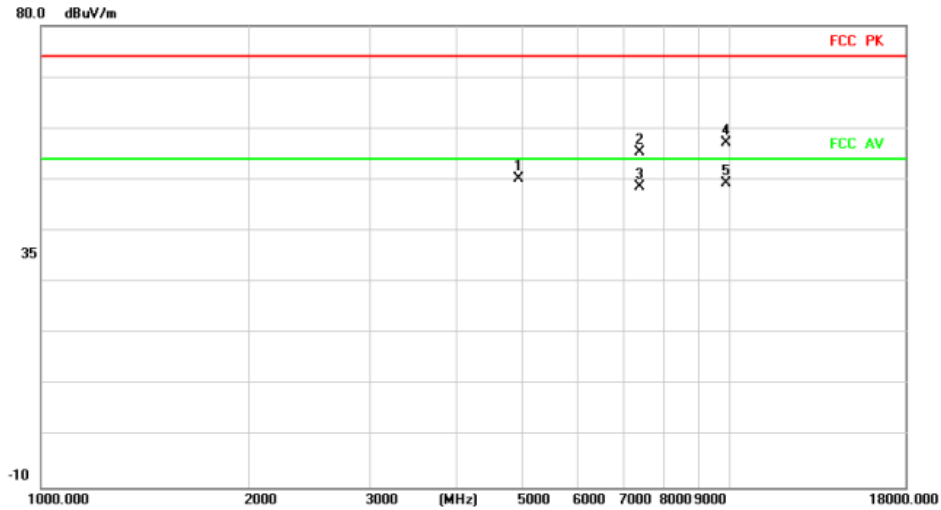
Test Channel:11

VERTICAL



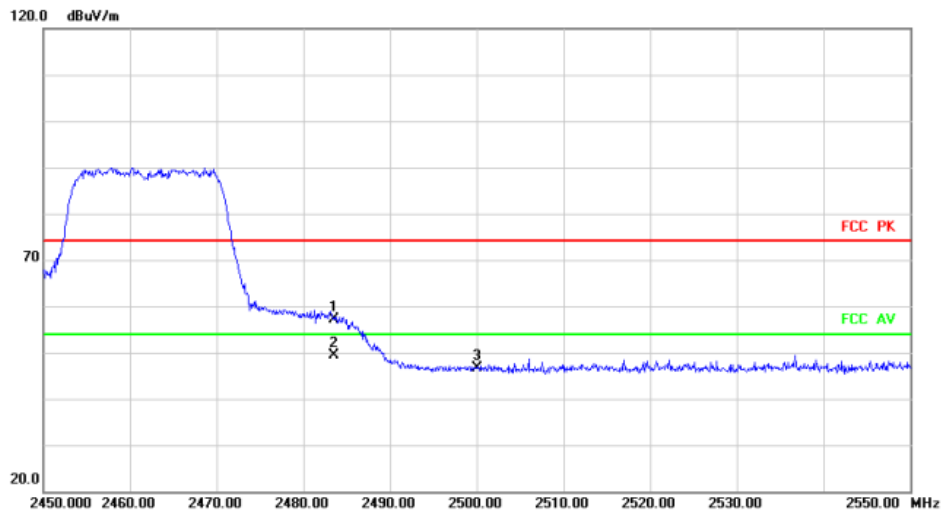
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4924.000	51.54	-1.30	50.24	74.00	-23.76	peak		
2		7386.000	51.23	4.11	55.34	74.00	-18.66	peak		
3		7386.000	44.48	4.11	48.59	54.00	-5.41	AVG		
4		9848.000	49.66	7.60	57.26	74.00	-16.74	peak		
5 *		9848.000	41.77	7.60	49.37	54.00	-4.63	AVG		

Radiated Emission



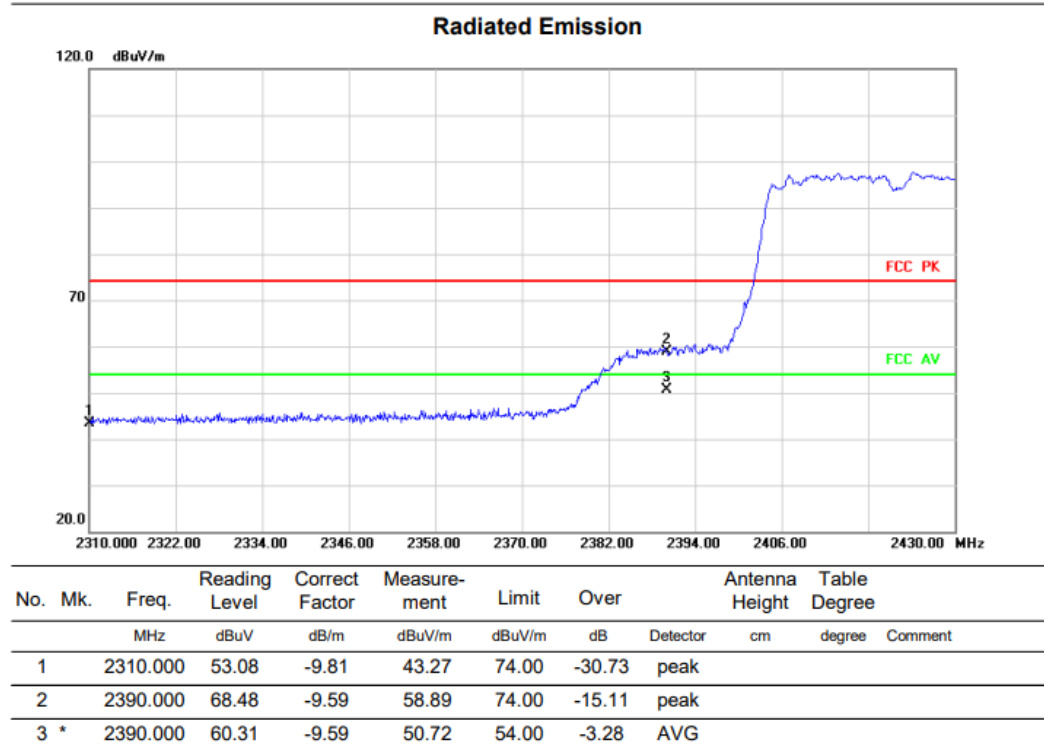
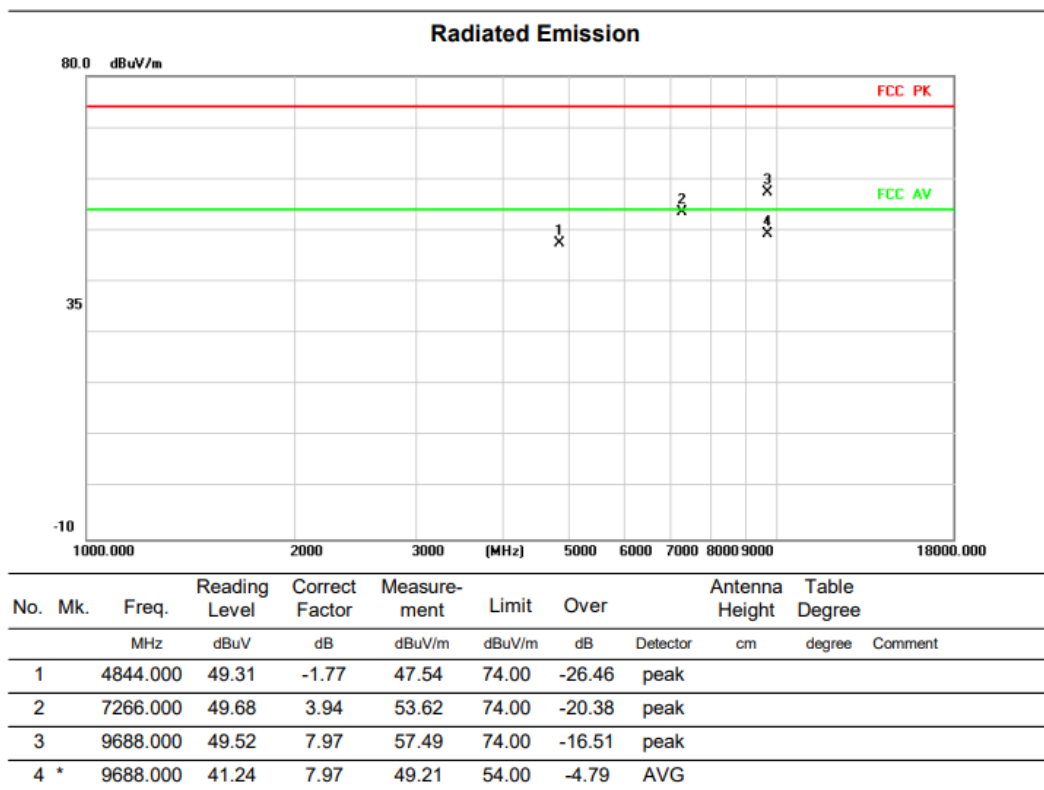
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	65.93	-8.91	57.02	74.00	-16.98	peak		
2 *		2483.500	58.28	-8.91	49.37	54.00	-4.63	AVG		
3		2500.000	55.34	-8.78	46.56	74.00	-27.44	peak		

Above 1G (1GHz~18GHz)

Test mode: 11N40MIMO

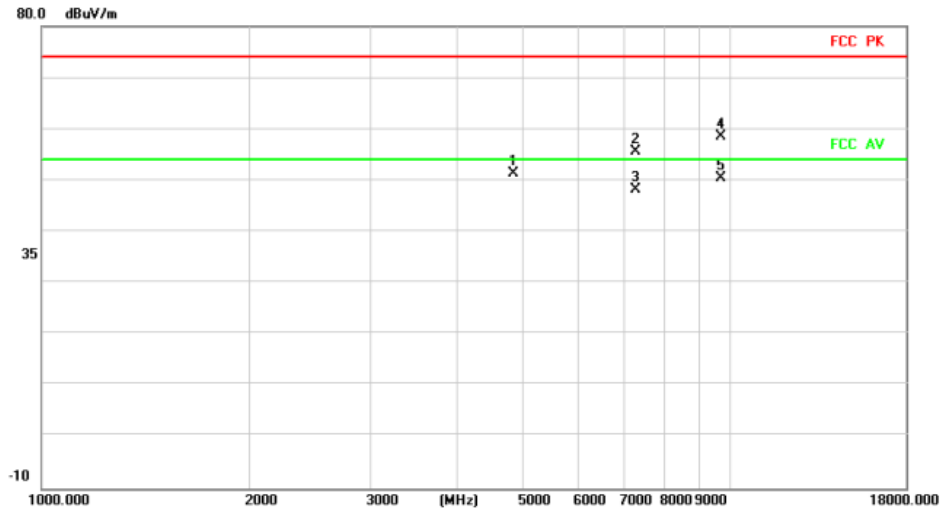
Test Channel:3

VERTICAL



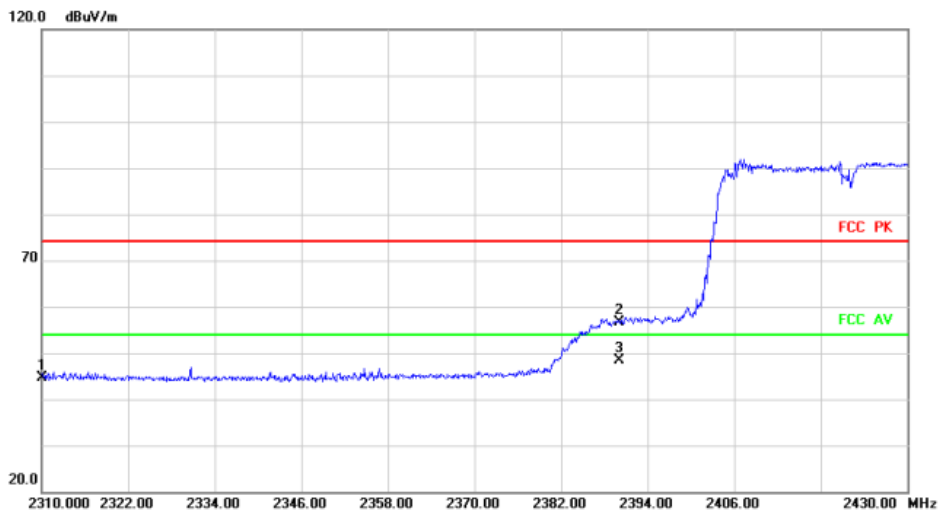
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4844.000	53.01	-1.77	51.24	74.00	-22.76	peak		
2		7266.000	51.55	3.94	55.49	74.00	-18.51	peak		
3		7266.000	44.18	3.94	48.12	54.00	-5.88	AVG		
4		9688.000	50.63	7.97	58.60	74.00	-15.40	peak		
5 *		9688.000	42.45	7.97	50.42	54.00	-3.58	AVG		

Radiated Emission



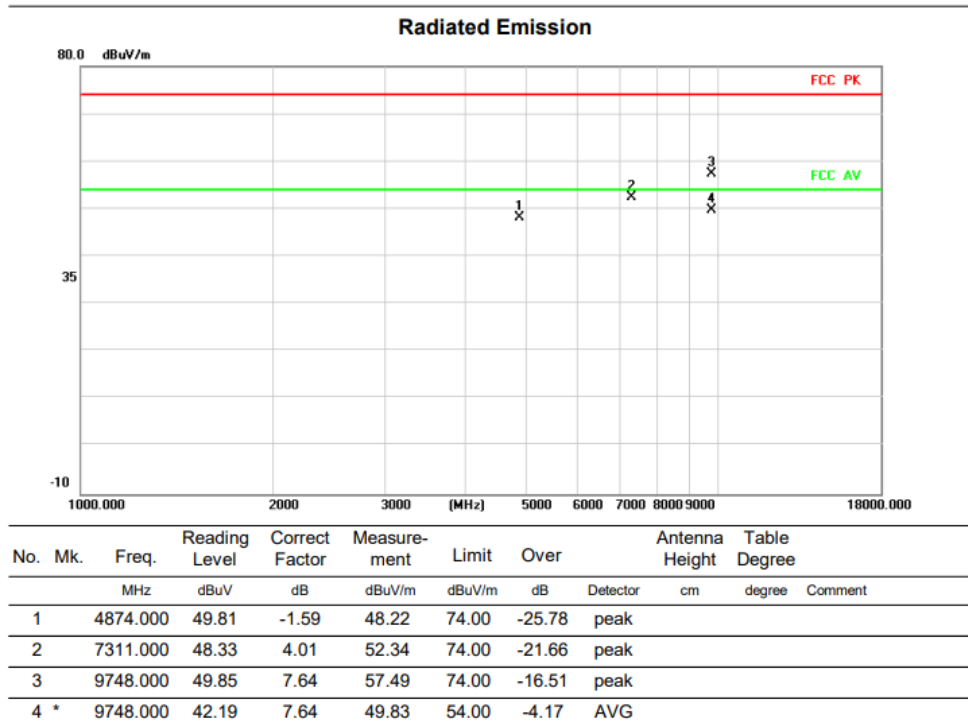
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	54.41	-9.81	44.60	74.00	-29.40	peak		
2		2390.000	66.33	-9.59	56.74	74.00	-17.26	peak		
3 *		2390.000	57.91	-9.59	48.32	54.00	-5.68	AVG		

Above 1G (1GHz~18GHz)

Test mode: 11N40MIMO

Test Channel: 6

VERTICAL



HORIZONTAL

