

RF TEST REPORT

FCC ID: 2AXXQHNR2306

Test Report No.....: RF250901013-01-001

Product(s) Name.....: Tri-Band AP Router

Model(s).....: HNR2306P, HNR2306A

Trade Mark.....: HUMAX Networks Inc.

Applicant.....: Humax Networks, INC

Address.....: 216, Hwangsaoul-ro, Bundang-gu, Seongnam-si, South Korea 13595

Receipt Date.....: 2025.09.26

Test Date.....: 2025.09.27~2025.10.27

Issued Date.....: 2025.11.03

Standards.....: 47 CFR FCC Part 15, Subpart C(Section 15.247);
ANSI C63.10:2020

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

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<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

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History of this test report

Original Report Issue Date: 2025.11.03

☒ No additional attachment

☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Humax Networks, INC

216, Hwangsaеul-ro, Bundang-gu, Seongnam-si, South Korea 13595

1.2 Manufacturer

Humax Networks, INC

216, Hwangsaеul-ro, Bundang-gu, Seongnam-si, South Korea 13595

1.3 Basic Description of Equipment Under Test

Test sample no.	POC250901013-S001	
Product(s) Name	Tri-Band AP Router	
Test Model	HNR2306P	
Model Name	HNR2306P, HNR2306A	
Model difference	the model difference is: HNR2306P with VoIP port, HNR2306A without VoIP	
Trade Mark	HUMAX Networks Inc.	
Power Supply	DC 12V from adapter	
Adapter information	Model: NBS24N120200VU Input: 100-240V~, 50/60Hz, 0.6A Output: 12.0V==2.0A	
Operate temperature	0°C-40°C	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band and Conducted Output Power (Max power)	2400MHz ~ 2483.5MHz	● IEEE 802.11n20:26.40dBm(0.437W)
Product Type	IEEE 802.11b: WLAN(SISO) IEEE 802.11g: WLAN(SISO) IEEE 802.11n: WLAN(MIMO) IEEE 802.11ax: WLAN(MIMO) IEEE 802.11be: WLAN(MIMO)	
Nominal Bandwidth	20MHz/40MHz	
Modulation	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA IEEE 802.11be: OFDMA	
Data Rate (Mbps)	IEEE 802.11b mode : 1/2/5.5/11 IEEE 802.11g mode : 6/9/12/18/24/36/48/54 IEEE 802.11n mode : up to 300 IEEE 802.11ax mode : up to 573.5 IEEE 802.11be mode : up to 688.2	
Antenna gain	Ant1: 4.30dBi, Ant2: 3.83dBi	
Directional gain	Uncorrelated:1.27dBi(from the antenna report) Correlated:4.06dBi(from the antenna report)	
Antenna type	PCB antenna	

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

Note: EUT supports one configuration only in 802.11ax, 802.11be full RU mode.

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	☐	4TX	
☒	802.11g	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX	
☒	802.11n(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX	☐	4TX	
☒	802.11n(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX	☐	4TX	
☒	802.11ax(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX	☐	4TX	
☒	802.11ax(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX	☐	4TX	
☒	802.11be(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX	☐	4TX	
☒	802.11be(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX	☐	4TX	

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
Maximum 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 EUT has 2 PCB 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 C63.10:2020

2.3 Test Instruments

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2025/3/1	2026/2/28
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2026/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2025/3/1	2026/2/28
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2025/3/1	2026/2/28
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2026/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2025/4/15	2026/4/14
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2025/3/1	2026/2/28
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2025/3/1	2026/2/28
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2025/2/21	2026/2/20
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2025/2/21	2026/2/20
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2025/3/1	2026/2/28
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2025/3/1	2026/2/28
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2025/4/15	2026/4/14
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	MXA Signal Analyzer	Keysight	N9021B	MY60080169	JLE050	2025/3/1	2026/2/28
2	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2025/3/1	2026/2/28
3	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2025/3/1	2026/2/28
4	VXG Signal Generator	Keysight	M9384B	MY61270787	JLE051	2025/6/10	2026/6/09
5	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2025/3/1	2026/2/28
6	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K5 0-116064-Dt	JLE054	2025/3/1	2026/2/28
7	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				

2.4 Test Mode

Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	802.11 be20MIMO	MCS0	06
Radiated Emission and Band Edge Measurement	802.11b SISO	1Mbps	01/06/11
	802.11g SISO	6Mbps	01/06/11
	802.11n20MIMO	MCS0	01/06/11
	802.11n40MIMO	MCS0	03/06/09
	802.11ax20MIMO	MCS0	01/06/11
	802.11ax40MIMO	MCS0	03/06/09
	802.11be20MIMO	MCS0	01/06/11
	802.11be40MIMO	MCS0	03/06/09
Spurious Emission at Antenna Port	802.11b SISO	1Mbps	01/06/11
	802.11g SISO	6Mbps	01/06/11
	802.11n20MIMO	MCS0	01/06/11
	802.11n40MIMO	MCS0	03/06/09
	802.11ax20MIMO	MCS0	01/06/11
	802.11ax40MIMO	MCS0	03/06/09
	802.11be20MIMO	MCS0	01/06/11
	802.11be40MIMO	MCS0	03/06/09
	802.11n20MIMO	MCS0	01/06/11
	802.11n40MIMO	MCS0	03/06/09
6dB Bandwidth	802.11b SISO	1Mbps	01/06/11
	802.11g SISO	6Mbps	01/06/11
	802.11n20MIMO	MCS0	01/06/11
	802.11n40MIMO	MCS0	03/06/09
	802.11ax20MIMO	MCS0	01/06/11
	802.11ax40MIMO	MCS0	03/06/09
	802.11be20MIMO	MCS0	01/06/11
	802.11be40MIMO	MCS0	03/06/09

Maximum Conducted Power	802.11b SISO	1Mbps	01/06/11
	802.11g SISO	6Mbps	01/06/11
	802.11n20MIMO	MCS0	01/06/11
	802.11n40MIMO	MCS0	03/06/09
	802.11ax20MIMO	MCS0	01/06/11
	802.11ax40MIMO	MCS0	03/06/09
	802.11be20MIMO	MCS0	01/06/11
	802.11be40MIMO	MCS0	03/06/09
Power Spectral Density	802.11b SISO	1Mbps	01/06/11
	802.11g SISO	6Mbps	01/06/11
	802.11n20MIMO	MCS0	01/06/11
	802.11n40MIMO	MCS0	03/06/09
	802.11ax20MIMO	MCS0	01/06/11
	802.11ax40MIMO	MCS0	03/06/09
	802.11be20MIMO	MCS0	01/06/11
	802.11be40MIMO	MCS0	03/06/09

Note: For AC Power Conducted Emission and Radiated Emission below 1GHz, Only the worst-case scenario of HNR2306P was recorded.

2.5 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	23.8°C, 52% RH	AC 120V/60Hz	Keith Huang
Radiated Emission and Band Edge Measurement	23.9-24.3°C, 50-59% RH	AC 120V/60Hz	Lemon He
Spurious Emission at Antenna Port	23.0~24.8°C, 51~57% RH	DC 12V	Freedom Zhuo
6dB Bandwidth	23.0~24.8°C, 51~57% RH	DC 12V	Freedom Zhuo
Maximum Conducted Power	23.0~24.8°C, 51~57% RH	DC 12V	Freedom Zhuo
Power Spectral Density	23.0~24.8°C, 51~57% RH	DC 12V	Freedom Zhuo

Note: Adapter supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: DC 12V, 0~40°C

2.6 Duty Cycle of Test Signal

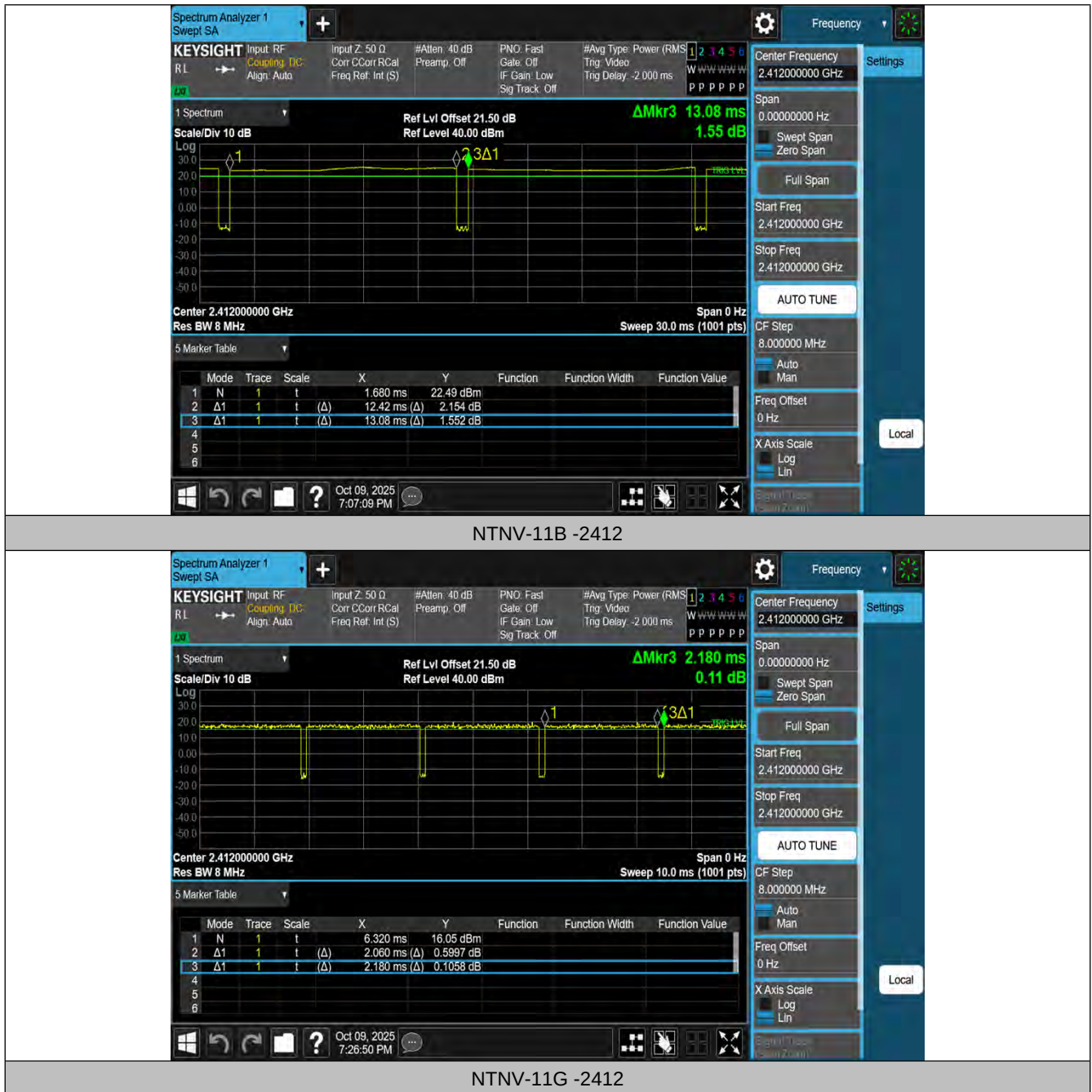
If duty cycle is $\geq 98\%$, duty factor is not required.

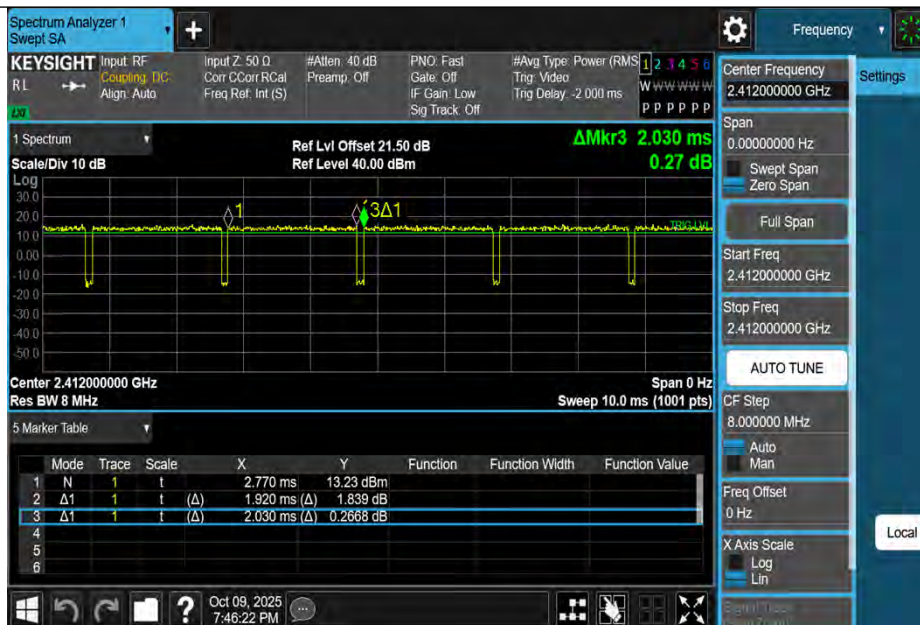
If duty cycle is $< 98\%$, duty factor shall be considered.

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

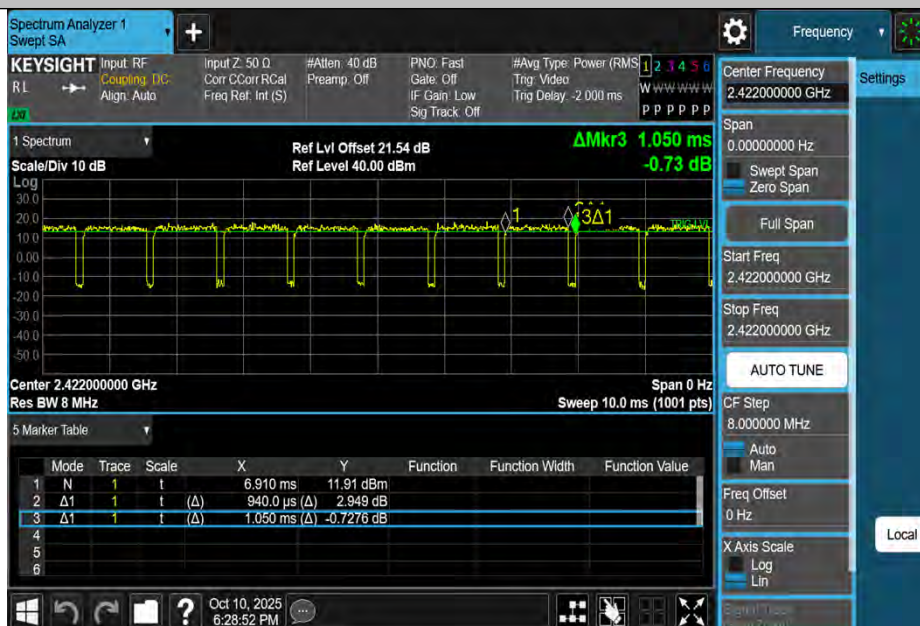
TestMode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B-SISO	2412	12.42	13.08	94.95
11G-SISO	2412	2.06	2.18	94.50
11N20MIMO	2412	1.92	2.03	94.58
11N40MIMO	2422	0.94	1.05	89.52
11AX20MIMO	2412	1.49	1.53	97.39
11AX40MIMO	2422	0.78	0.82	95.12
11BE20MIMO	2412	1.49	1.53	97.39
11BE40MIMO	2422	0.78	0.82	95.12

Test Graphs

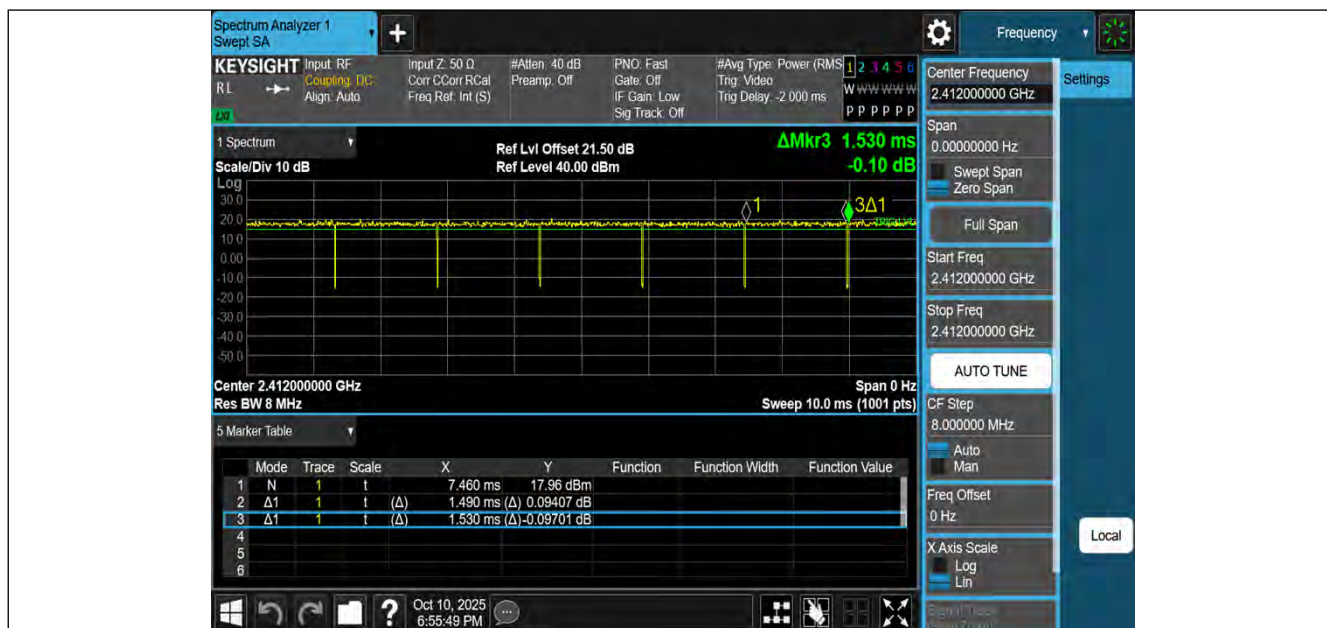




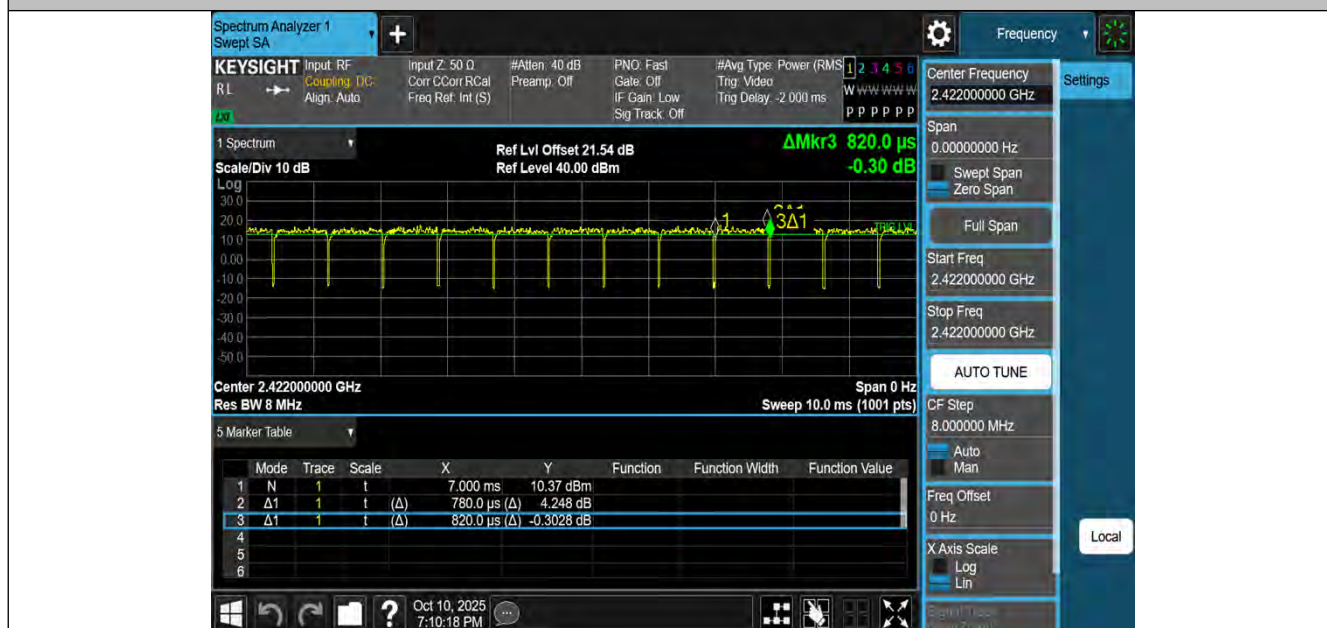
NTNV-11N20MIMO -2412



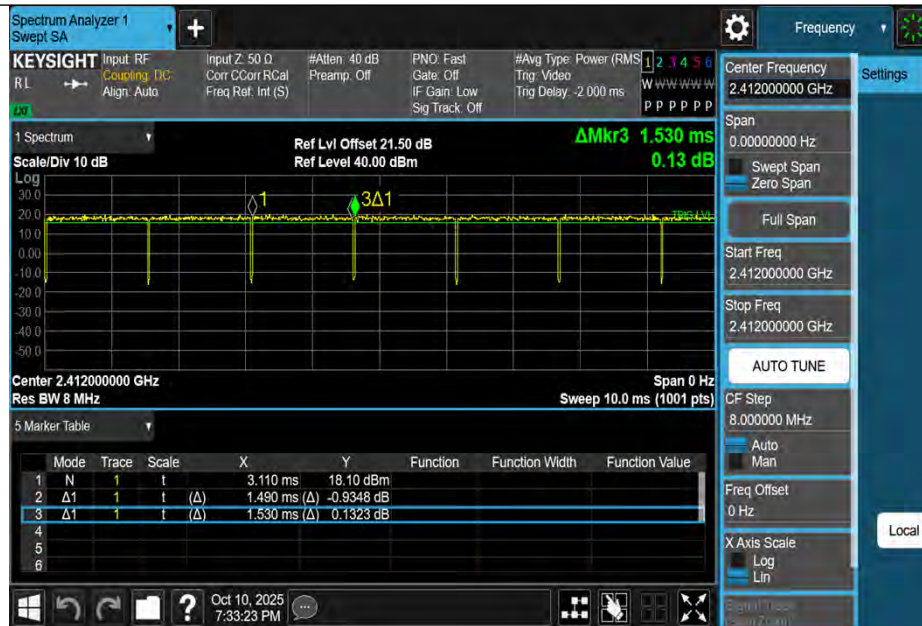
NTNV-11N40MIMO -2422



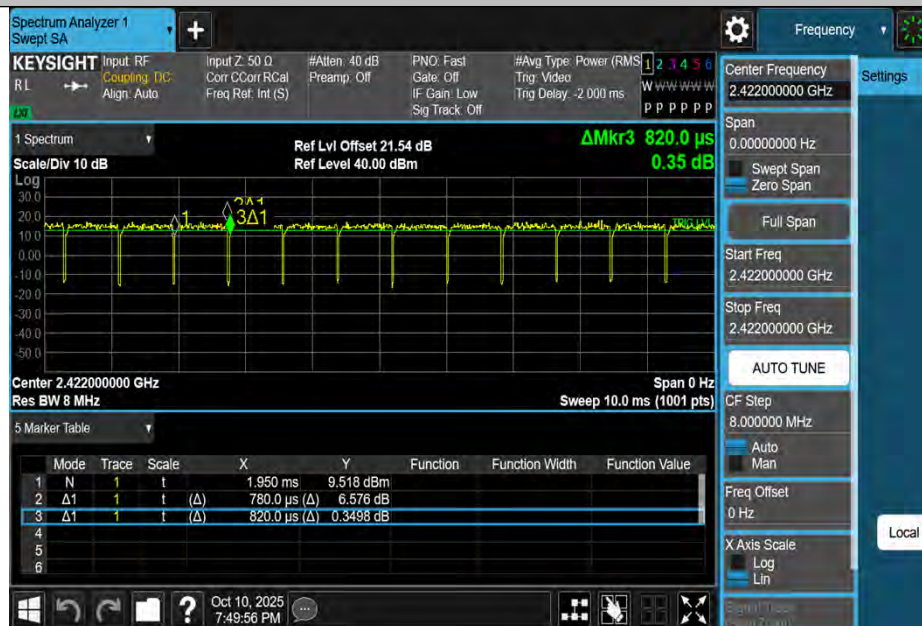
NTNV-11AX20MIMO -2412



NTNV-11AX40MIMO -2422



NTNV-11BE20MIMO -2412



NTNV-11BE40MIMO -2422

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	$\pm 102\text{kHz}$
RF power conducted	$\pm 0.243\text{dB}$
Power Spectral Density	$\pm 0.743\text{dB}$
Conducted Spurious Emission	$\pm 1.328\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.68\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.20\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 5.10\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 5.26\text{dB}$

2.8 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01
Telephone:	0755-26024411

2.9 Description of Support Units

No.	Equipment	Model	Manufacturer	Series No
1	PC	M4500T	Thinkpad	M032004854IT
2	Notebook	L450	Think	/
3	Notebook	L450	Think	/

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(μ V)	Average Level dB(μ V)
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.

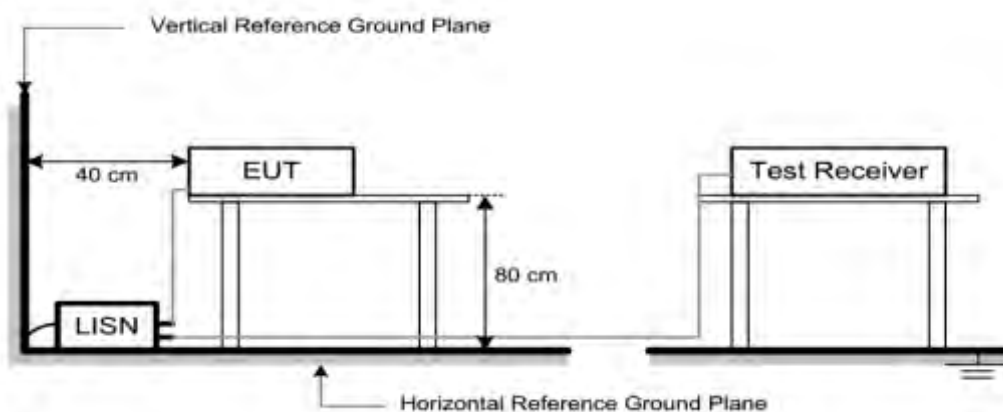
3.1.2 Test Procedure

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

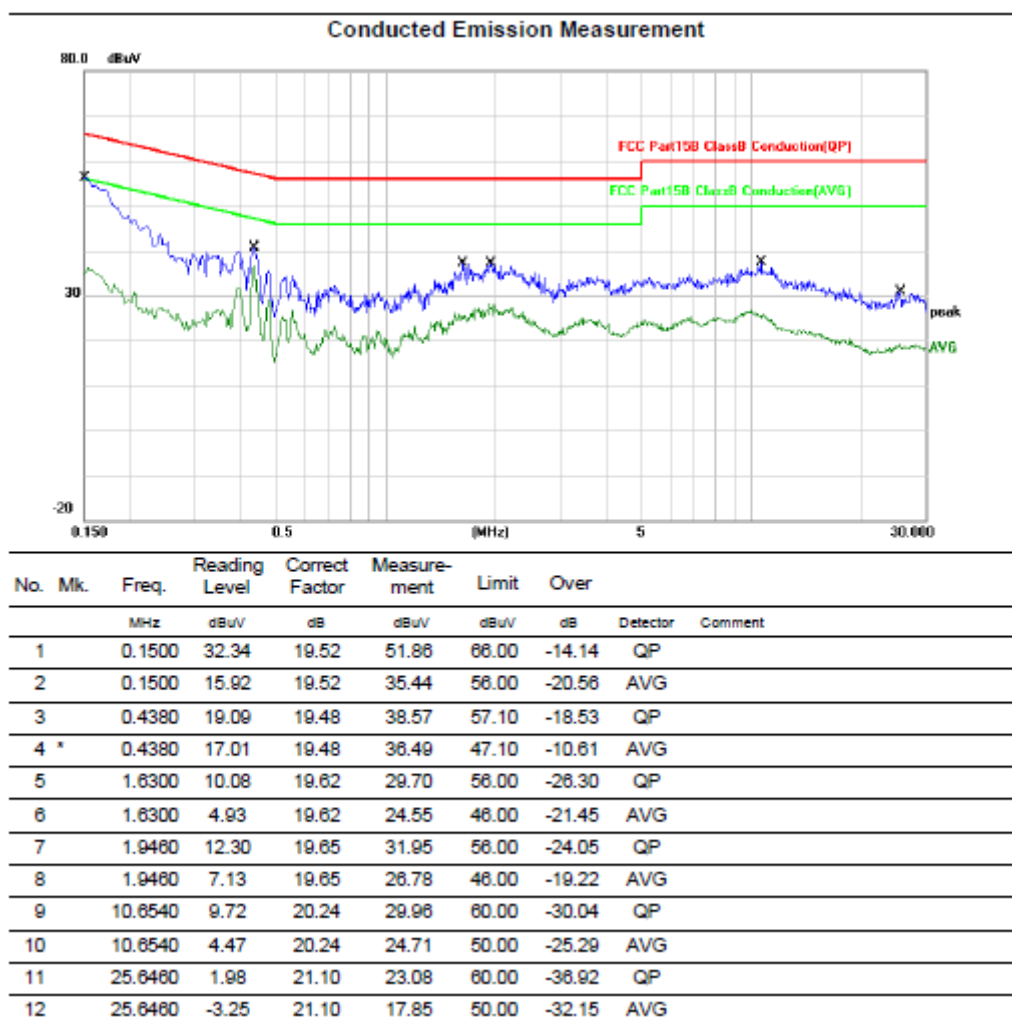
Note:

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

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

150kHz~30MHz	Worst Case Operating Mode: 11N20MIMO Channel 06
--------------	---

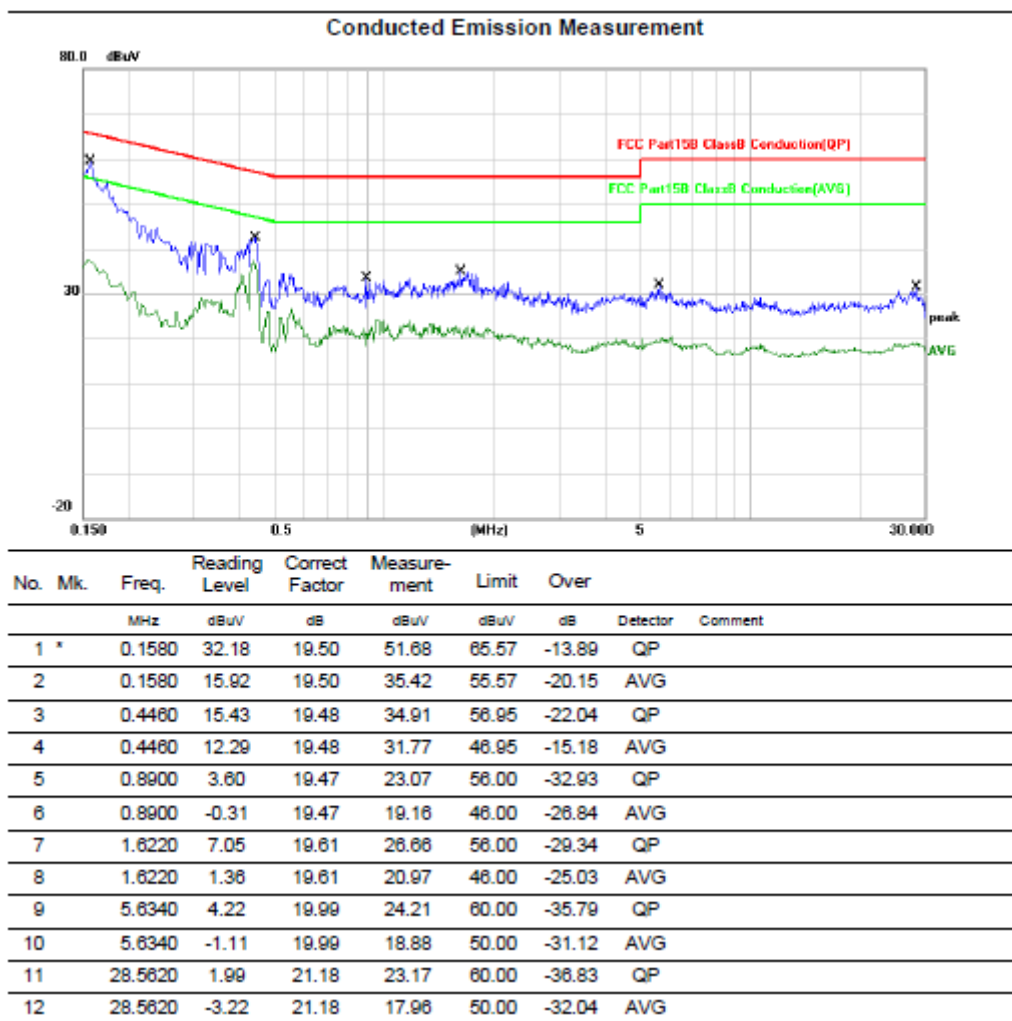
Line



150kHz~30MHz

Worst Case Operating Mode: 11N20MIMO Channel 06

Neutral



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	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	$2400/F(\text{kHz})$	-
0.490 – 1.705	30	$24000/F(\text{kHz})$	-
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 $\mu\text{V/m}$

(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

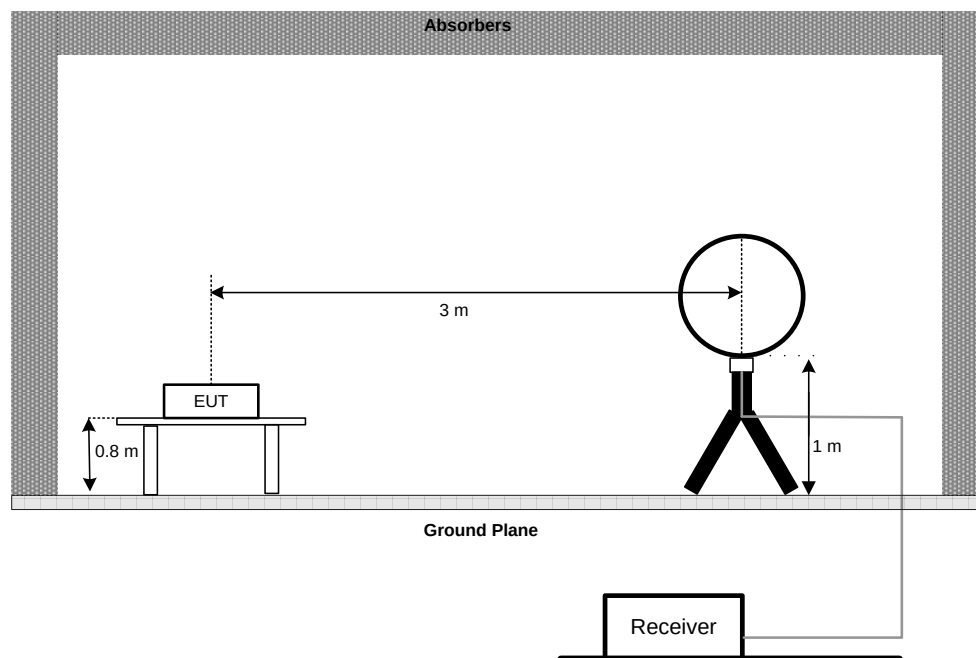
Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

- 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.

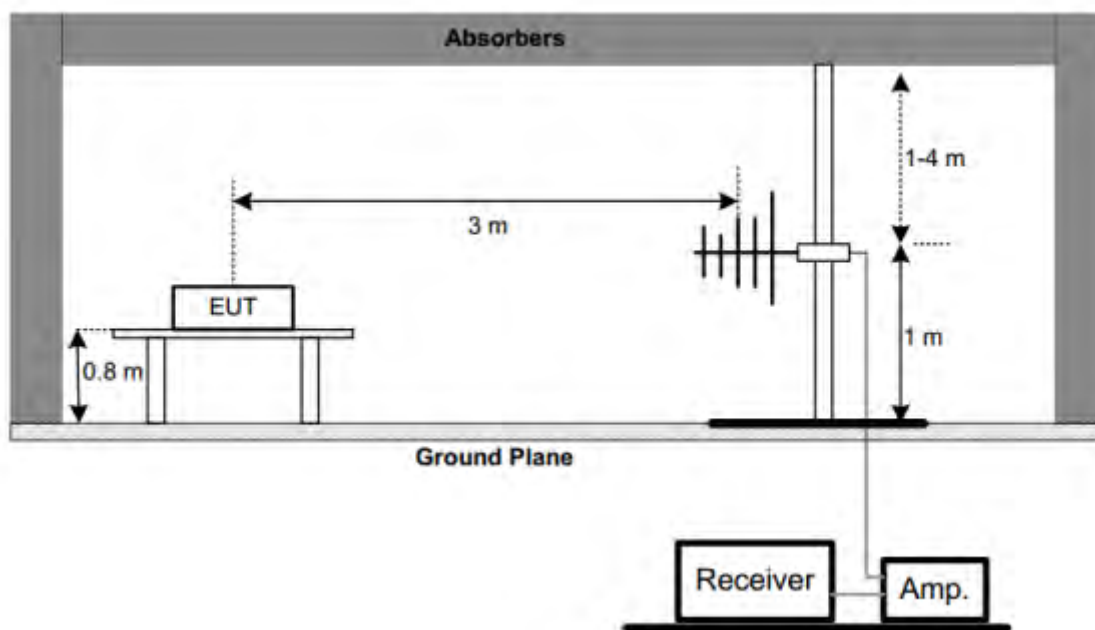
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency 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

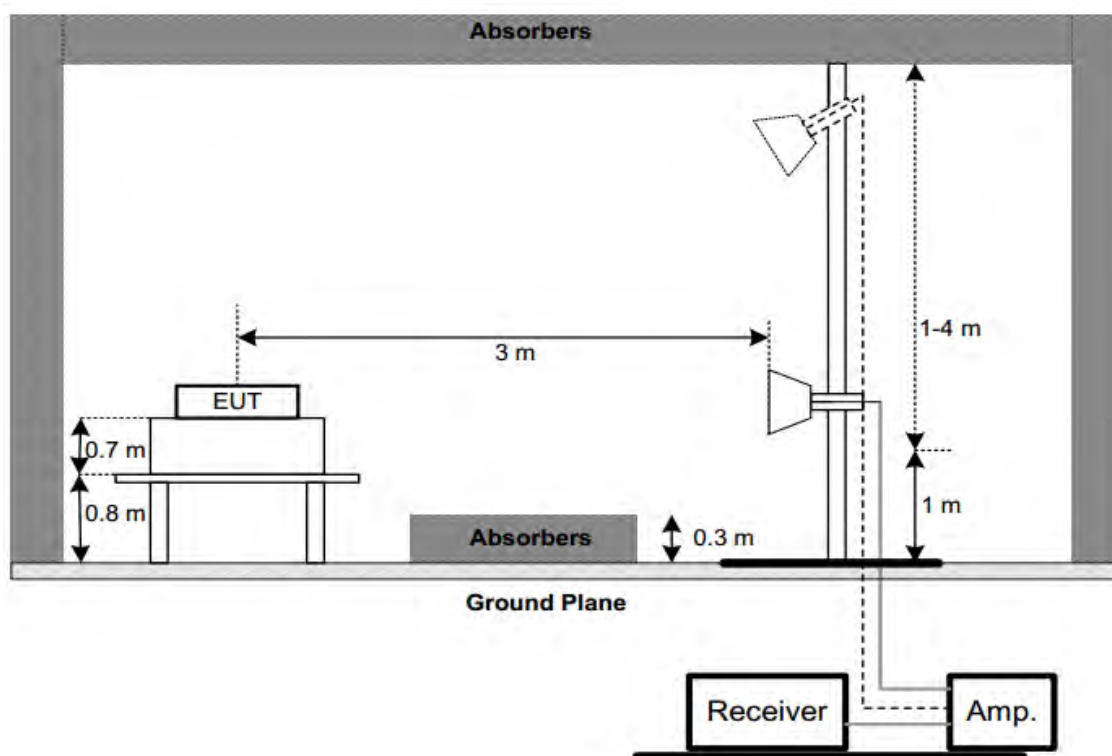
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(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-1GHz

Note:

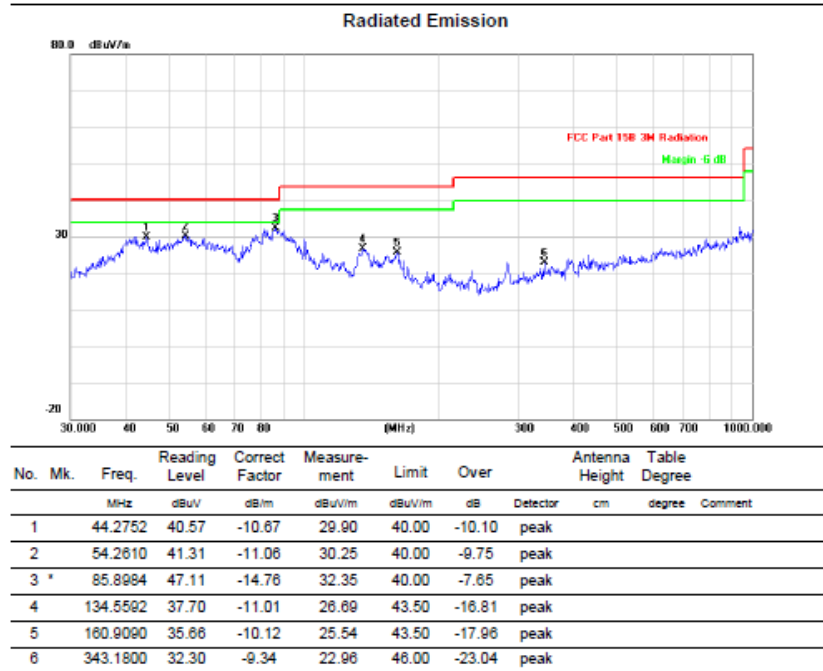
1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

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

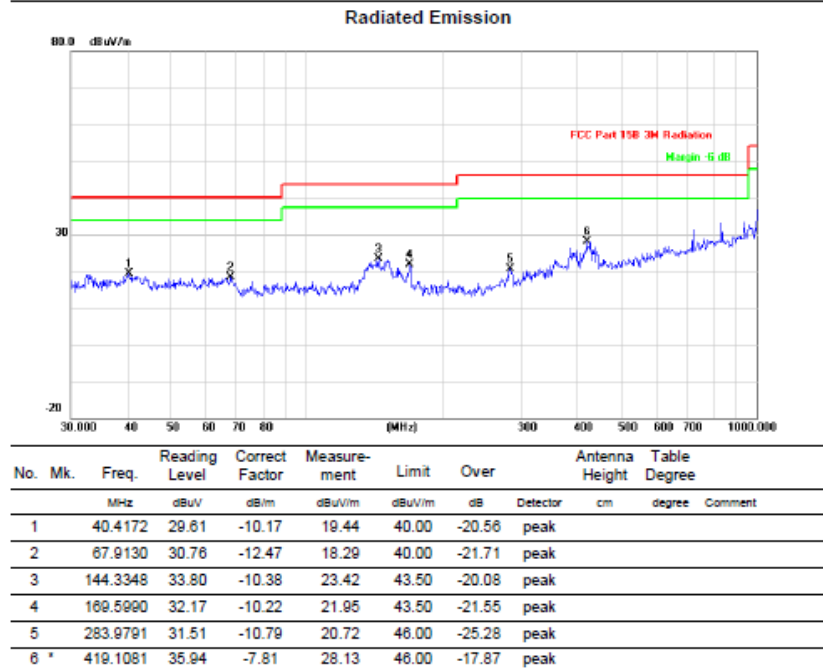
Below 1GHz (30MHz~1GHz)

Worst Case Operating Mode: 11N20MIMO Channel 06

VERTICAL



HORIZONTAL



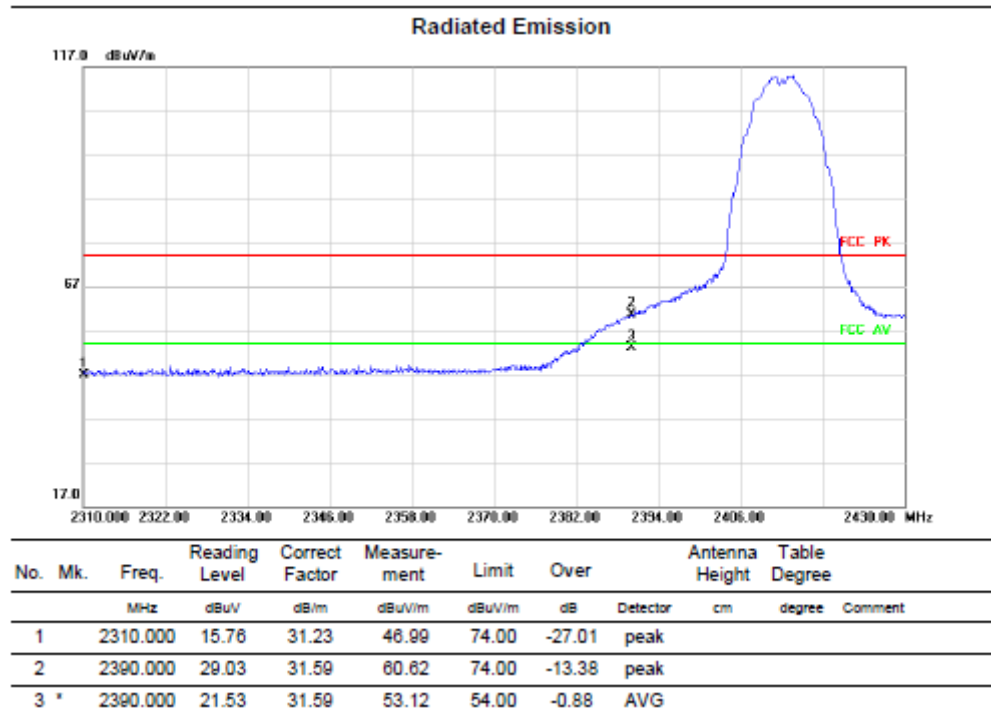
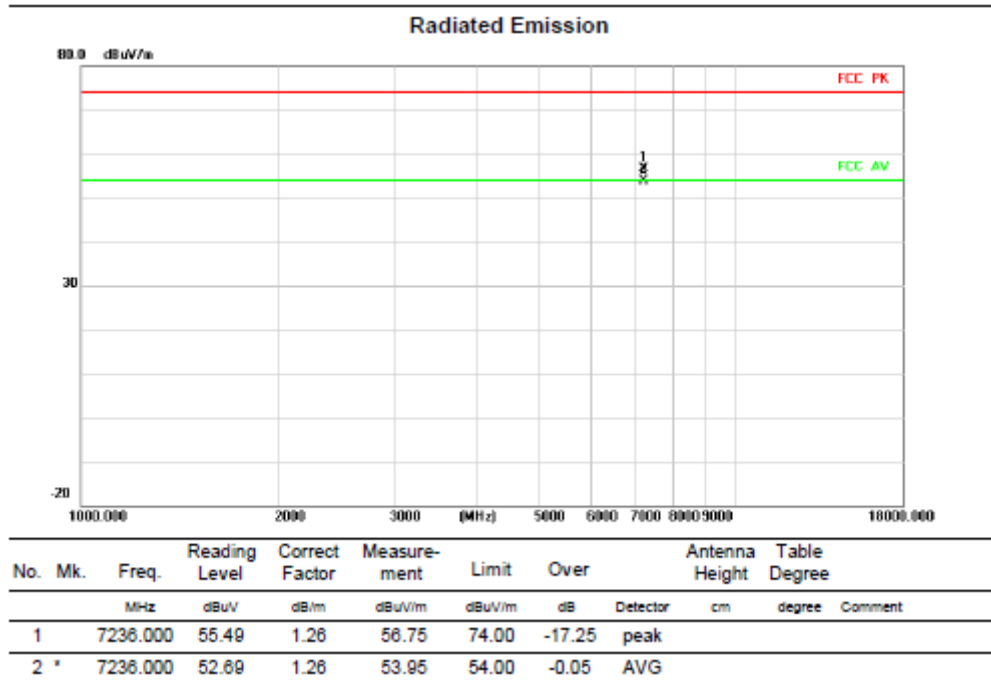
3) Radiated emission: Above 1GHz

Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

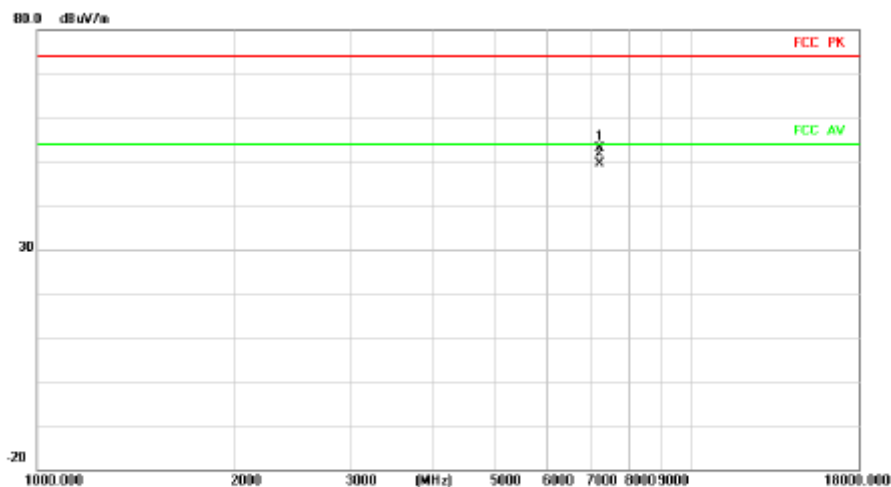
Above 1GHz (1GHz~18GHz)	Test mode:11B-ANT1	Test Channel:1
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VERTICAL



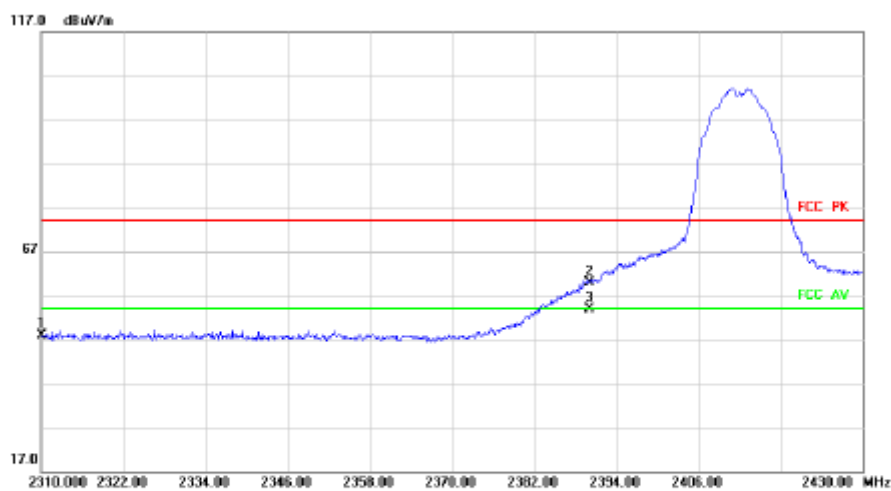
HORIZONTAL

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		7236.000	51.79	1.26	53.05	74.00	-20.95	peak		
2	*	7236.000	48.25	1.26	49.51	54.00	-4.49	AVG		

Radiated Emission



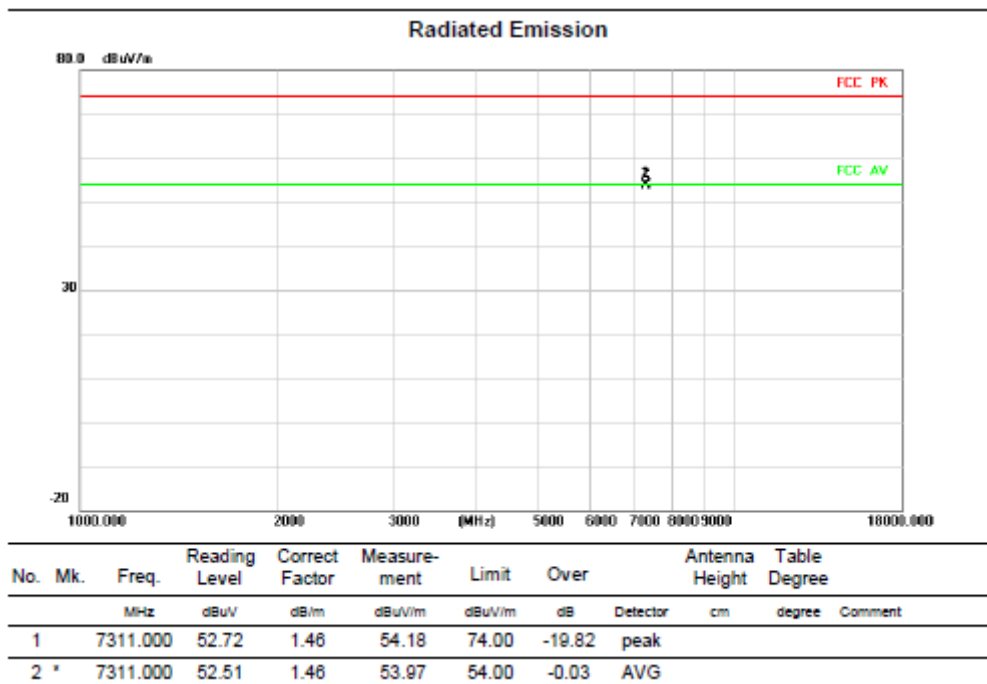
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	16.73	31.23	47.96	74.00	-26.04	peak		
2		2390.000	28.34	31.59	59.93	74.00	-14.07	peak		
3	*	2390.000	22.34	31.59	53.93	54.00	-0.07	AVG		

Above 1GHz (1GHz~18GHz)

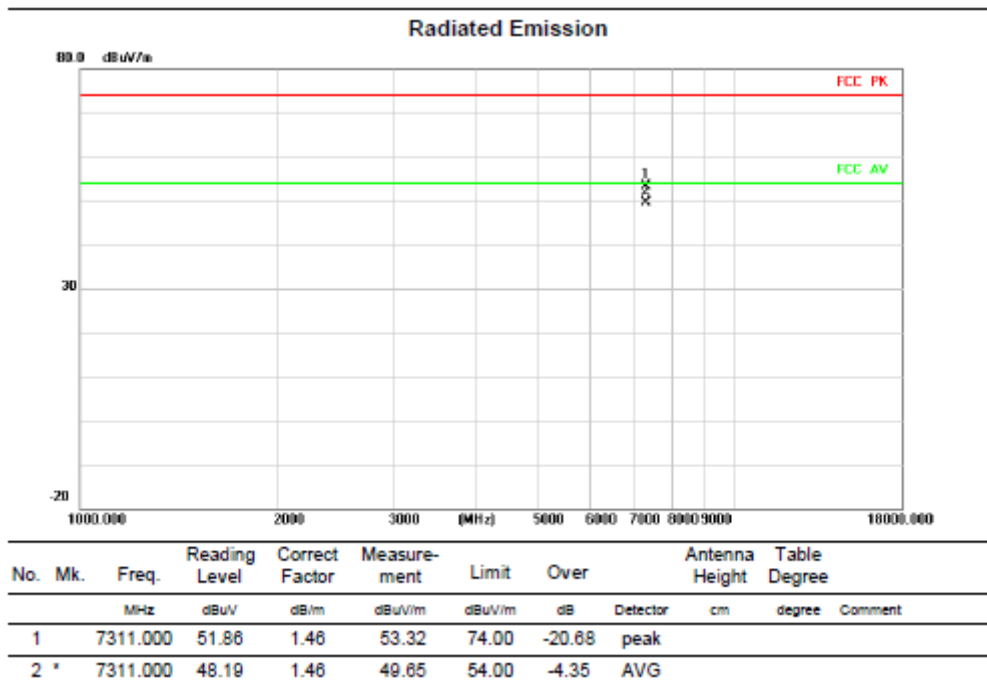
Test mode:11B-ANT1

Test Channel:6

VERTICAL



HORIZONTAL



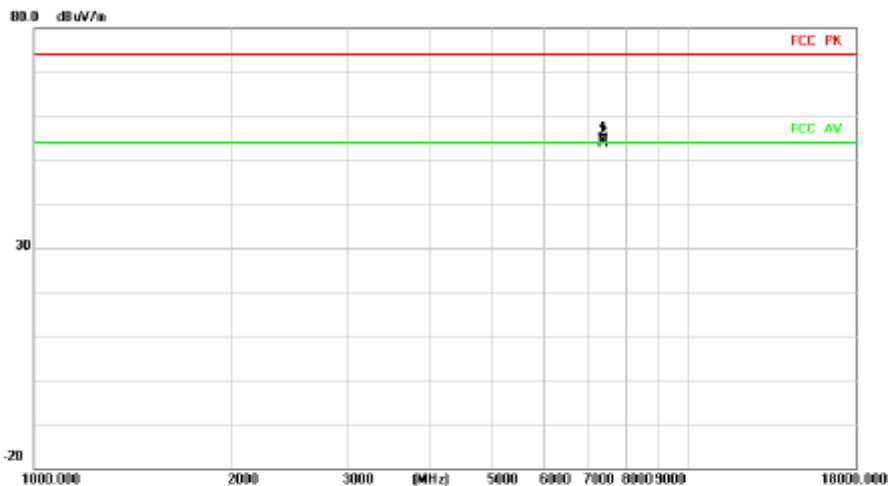
Above 1GHz (1GHz~18GHz)

Test mode: 11B-ANT1

Test Channel:11

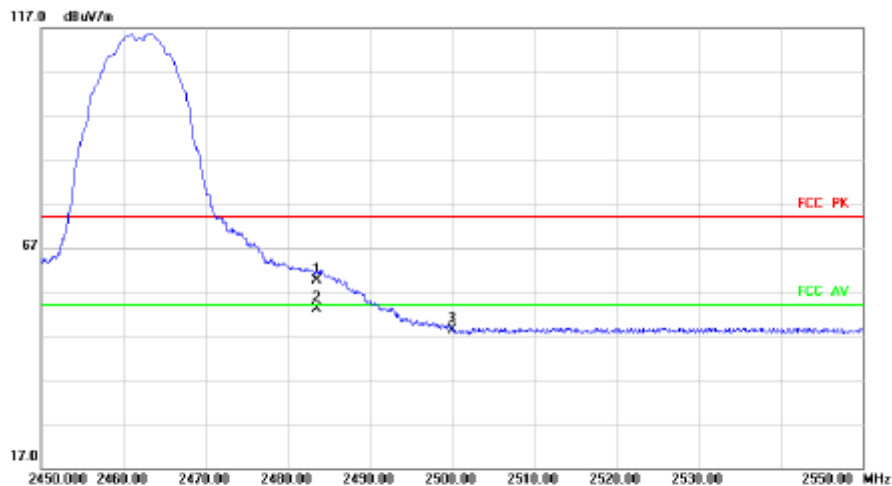
VERTICAL

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		7386.000	53.29	1.30	54.59	74.00	-19.41	peak	
2	*	7386.000	52.60	1.30	53.90	54.00	-0.10	AVG	

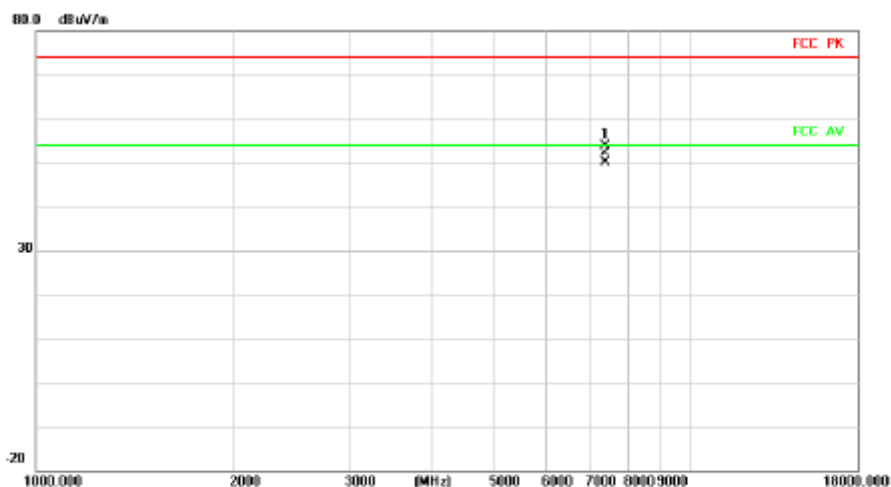
Radiated Emission



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	27.14	32.49	59.63	74.00	-14.37	peak	
2	*	2483.500	20.64	32.49	53.13	54.00	-0.87	AVG	
3		2500.000	15.70	32.65	48.35	74.00	-25.65	peak	

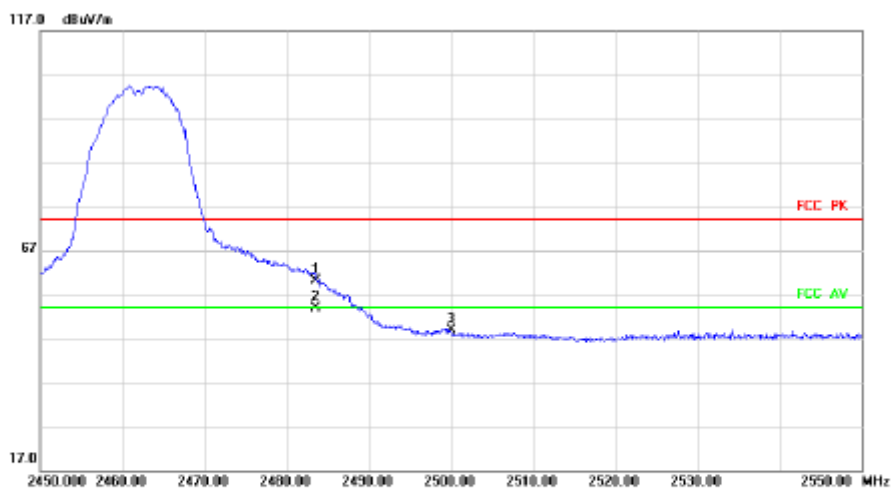
HORIZONTAL

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		7386.000	52.56	1.30	53.86	74.00	-20.14	peak	
2	*	7386.000	48.84	1.30	50.14	54.00	-3.86	AVG	

Radiated Emission



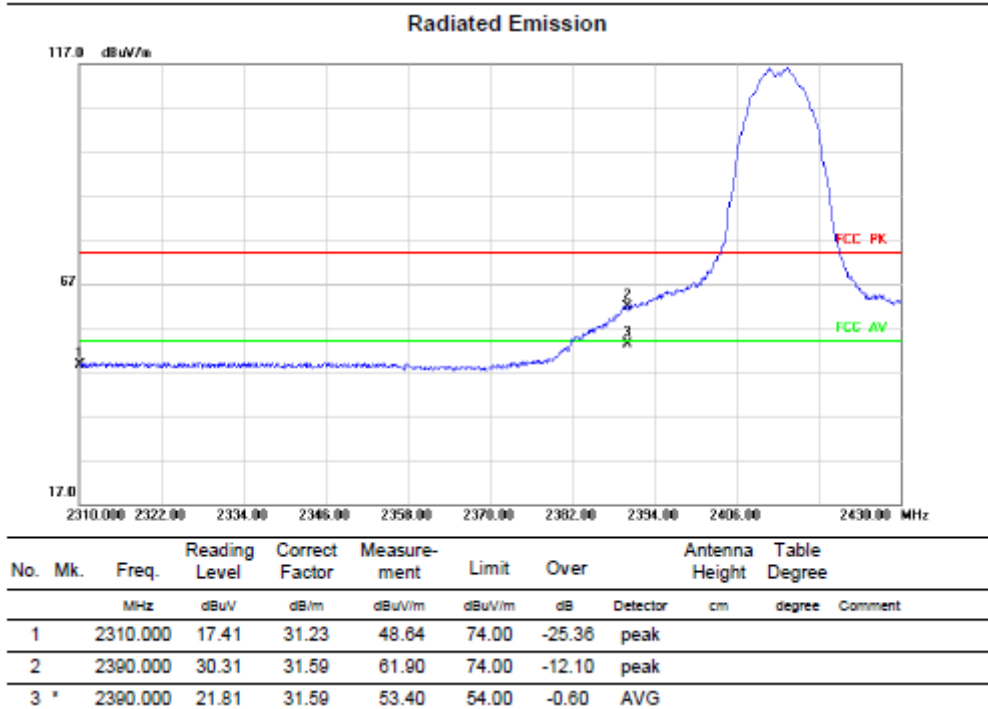
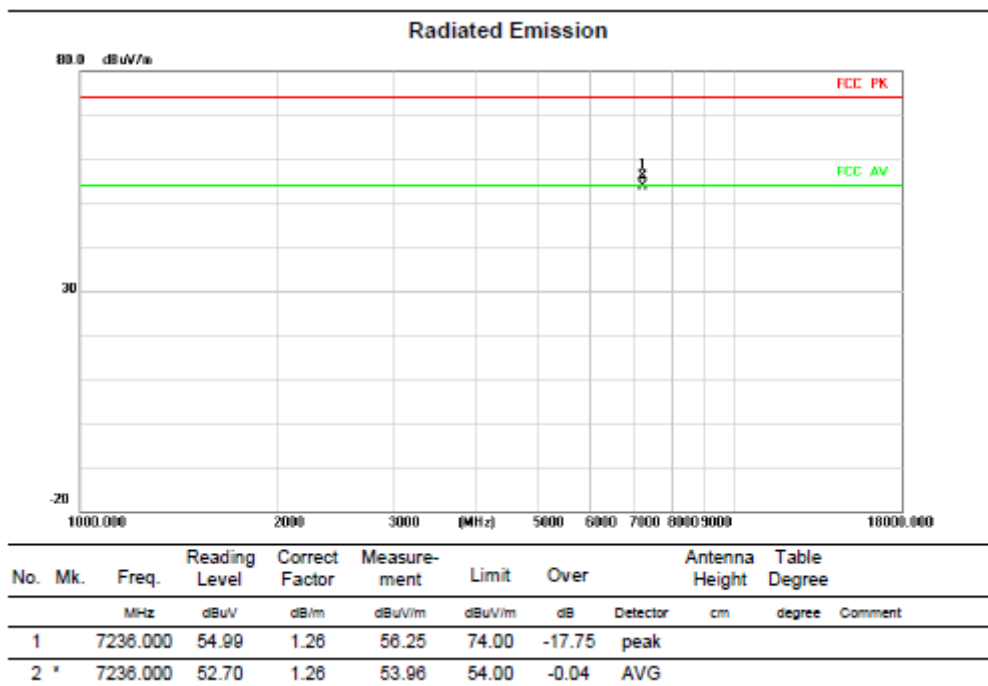
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	27.61	32.49	60.10	74.00	-13.90	peak	
2	*	2483.500	21.38	32.49	53.87	54.00	-0.13	AVG	
3		2500.000	16.28	32.65	48.93	74.00	-25.07	peak	

Above 1GHz (1GHz~18GHz)

Test mode:11B-ANT2

Test Channel:1

VERTICAL

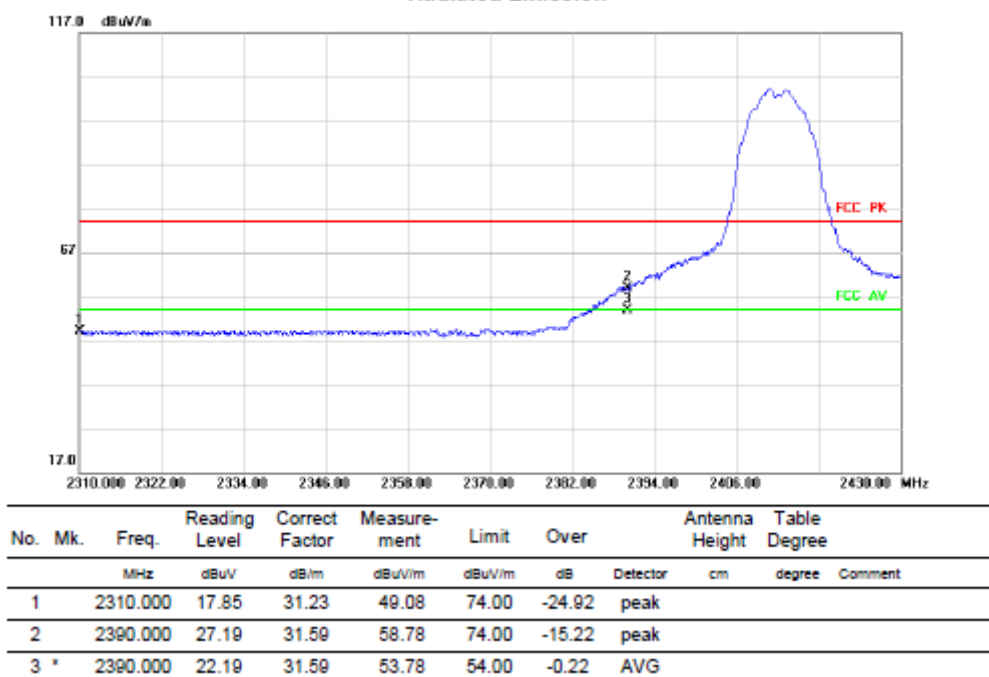


HORIZONTAL

Radiated Emission



Radiated Emission

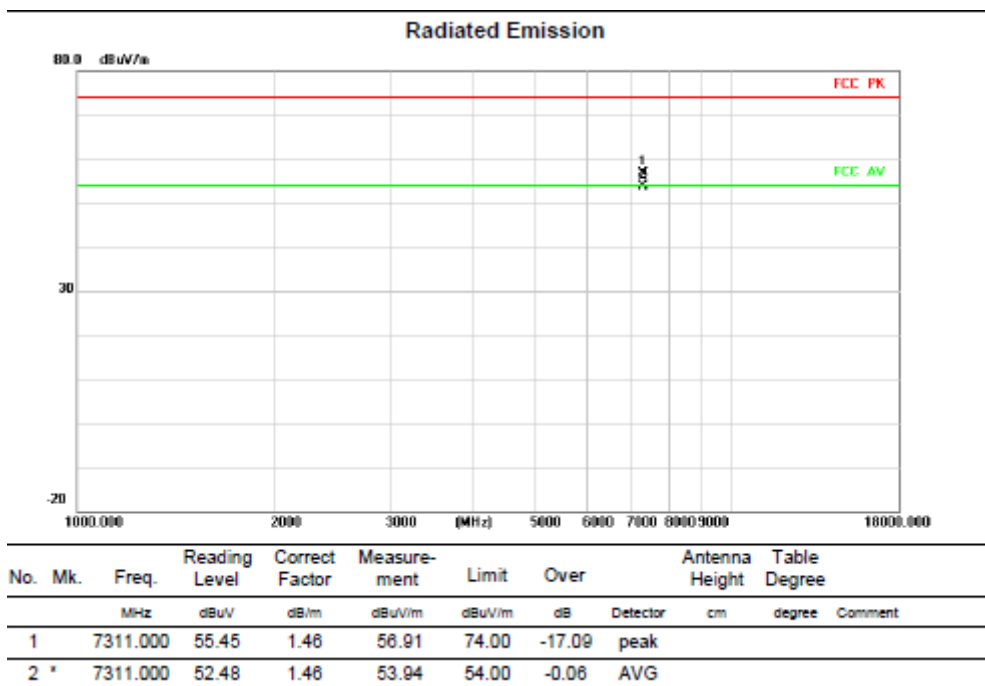


Above 1GHz (1GHz~18GHz)

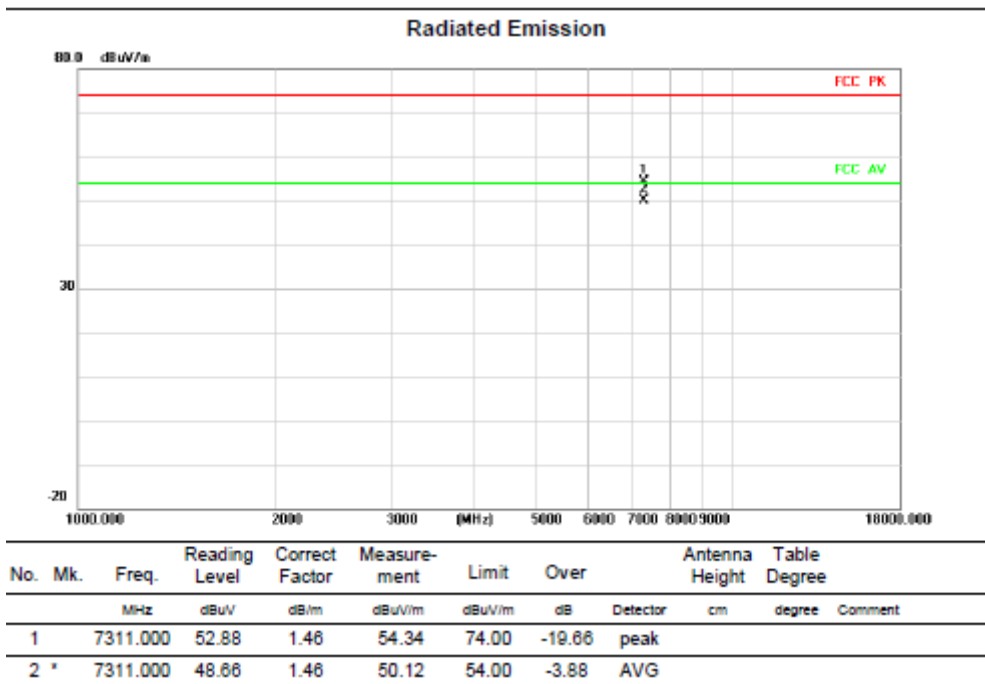
Test mode:11B-ANT2

Test Channel:6

VERTICAL



HORIZONTAL

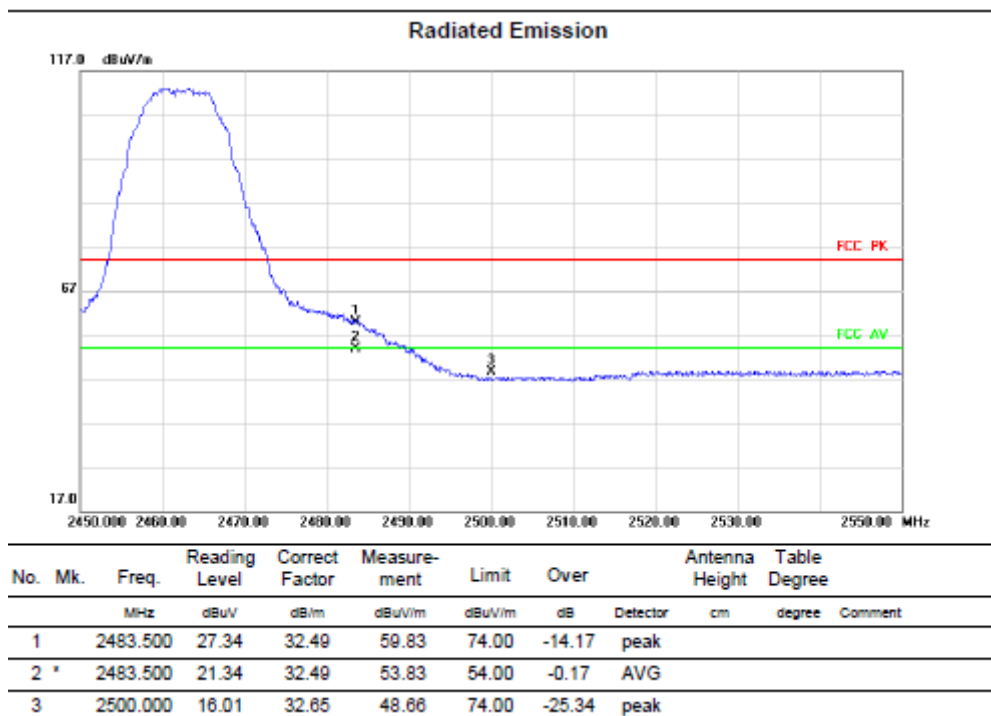
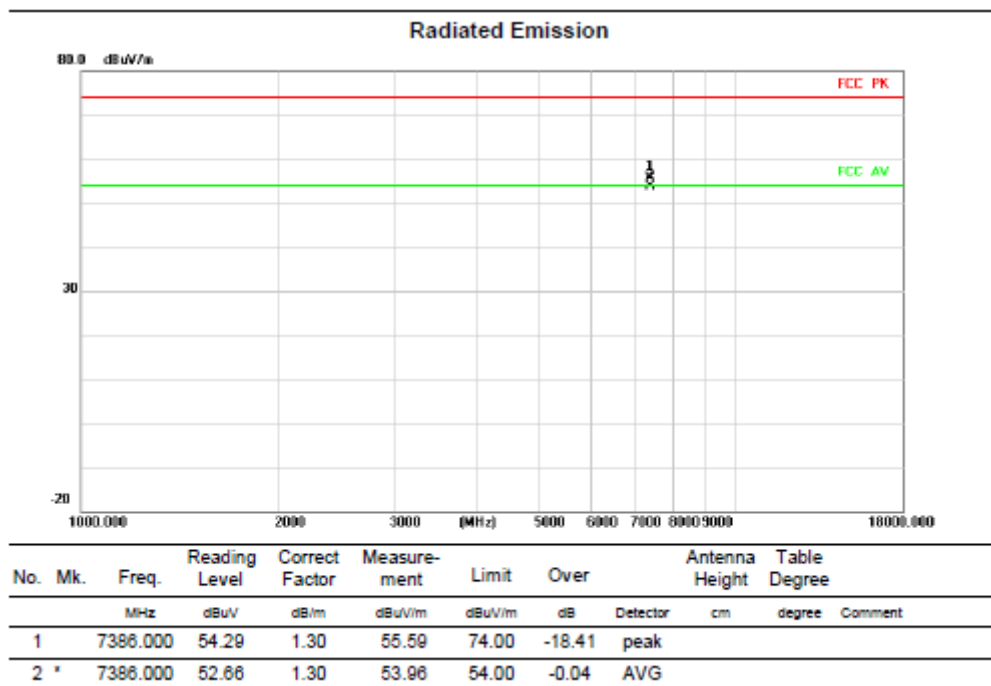


Above 1GHz (1GHz~18GHz)

Test mode: 11B-ANT2

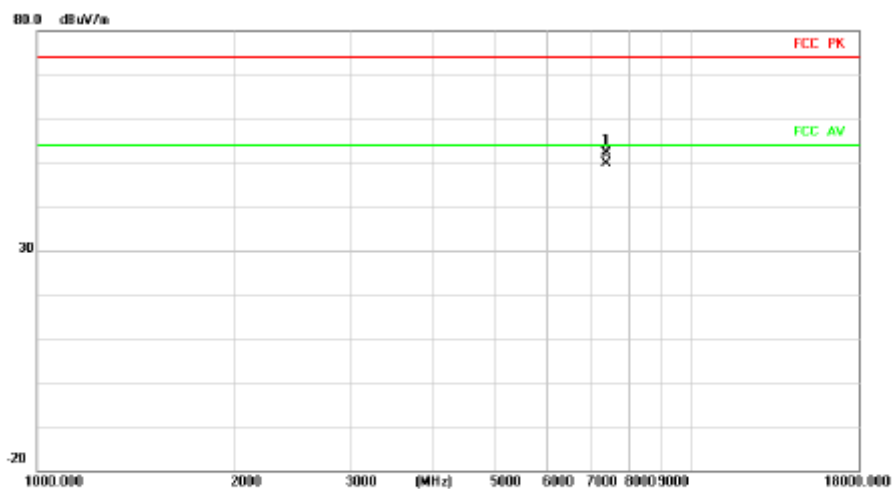
Test Channel:11

VERTICAL



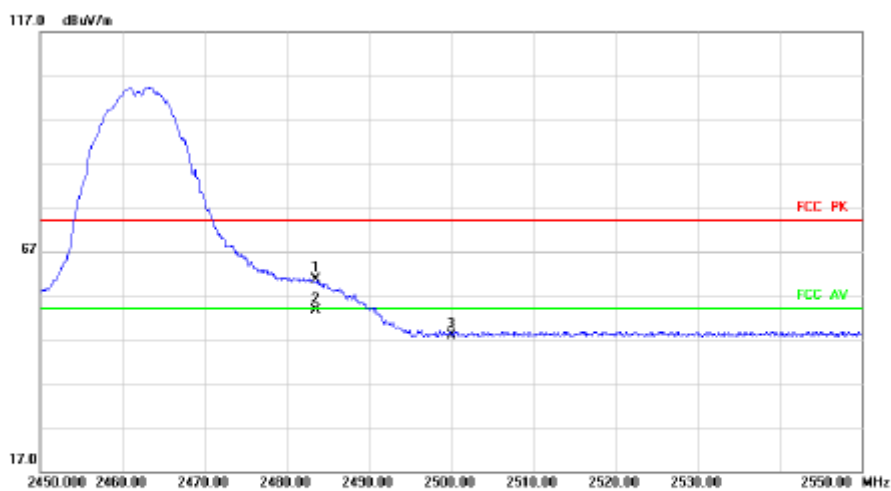
HORIZONTAL

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		7386.000	51.16	1.30	52.46	74.00	-21.54	peak		
2 *		7386.000	48.56	1.30	49.86	54.00	-4.14	AVG		

Radiated Emission



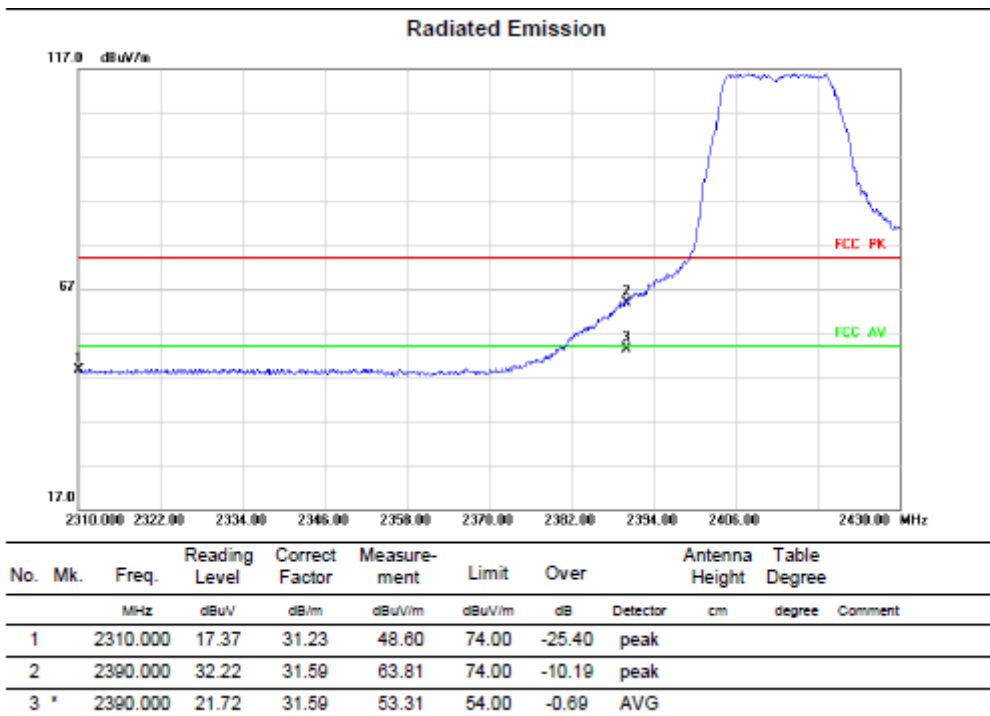
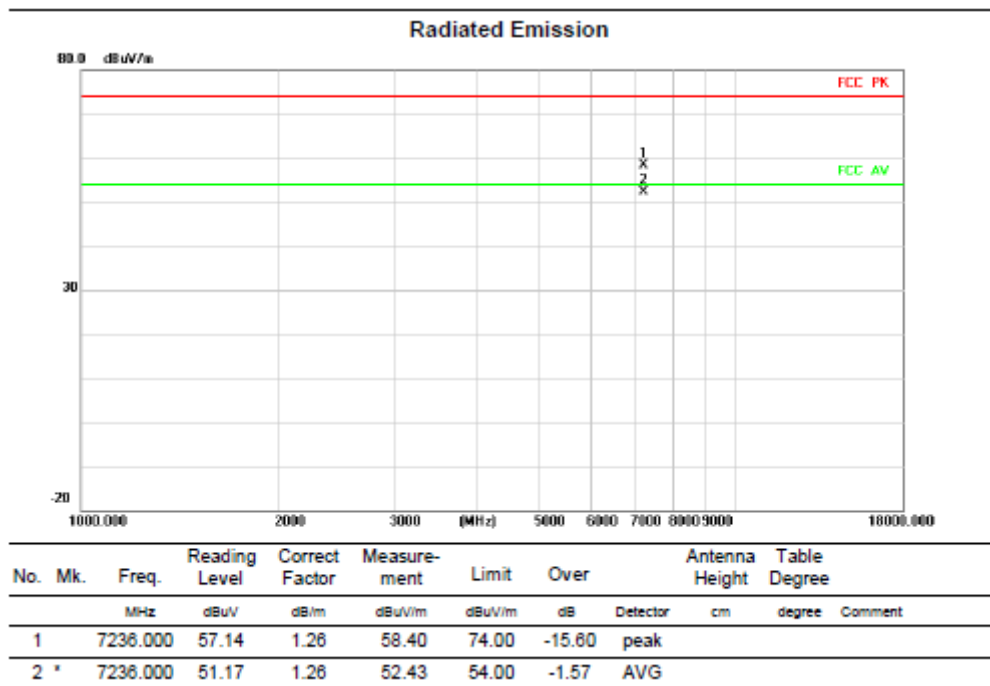
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2483.500	28.11	32.49	60.60	74.00	-13.40	peak		
2 *		2483.500	21.11	32.49	53.60	54.00	-0.40	AVG		
3		2500.000	15.24	32.65	47.89	74.00	-26.11	peak		

Above 1GHz (1GHz~18GHz)

Test mode:11G-ANT1

Test Channel:1

VERTICAL

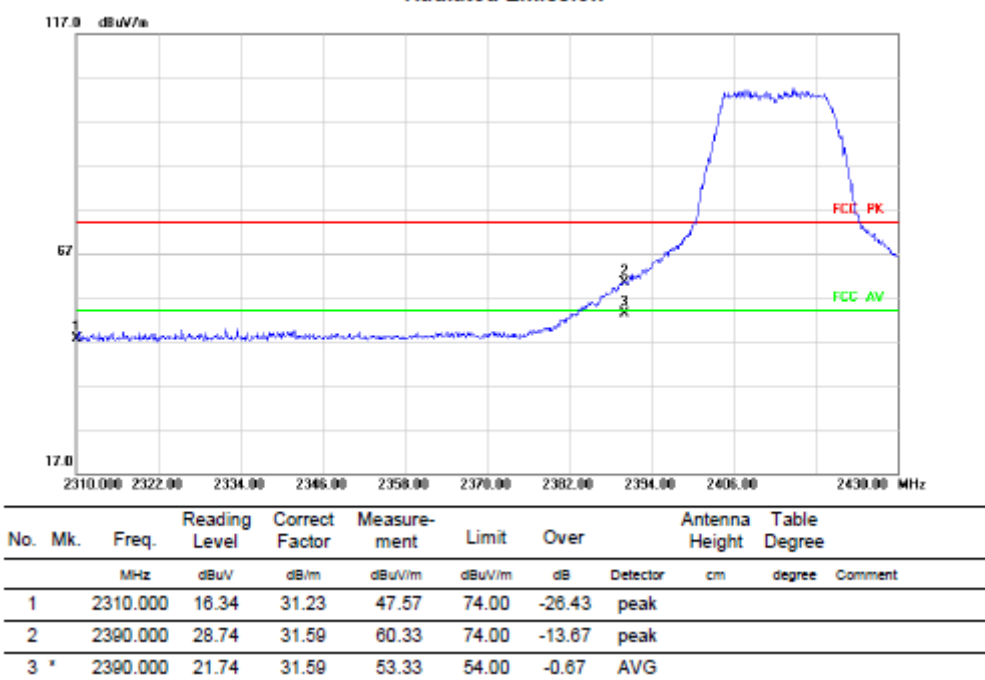


HORIZONTAL

Radiated Emission



Radiated Emission

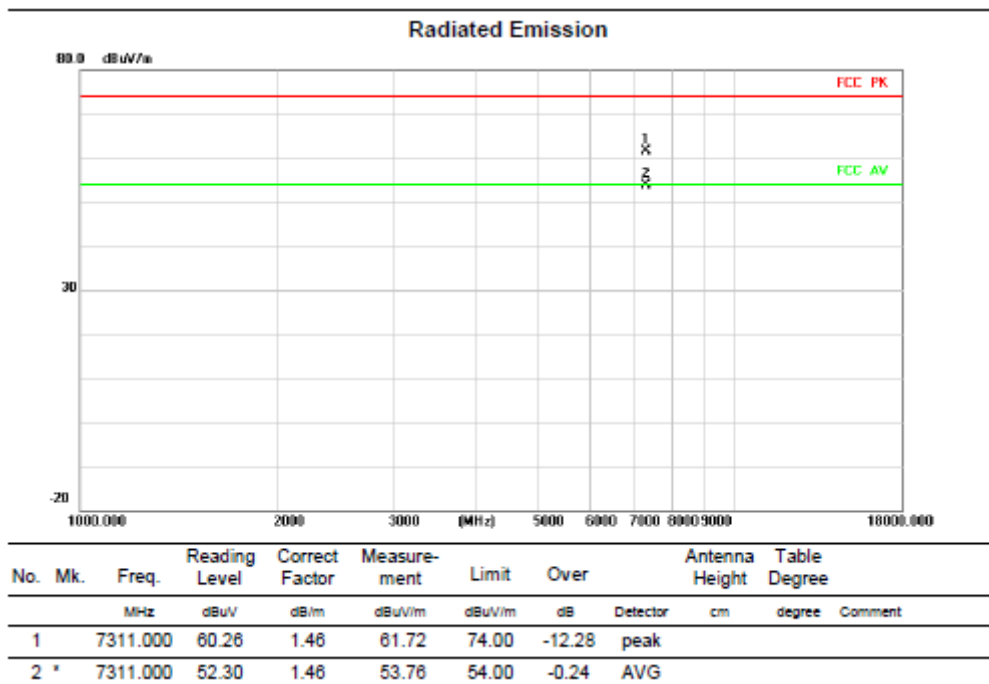


Above 1GHz (1GHz~18GHz)

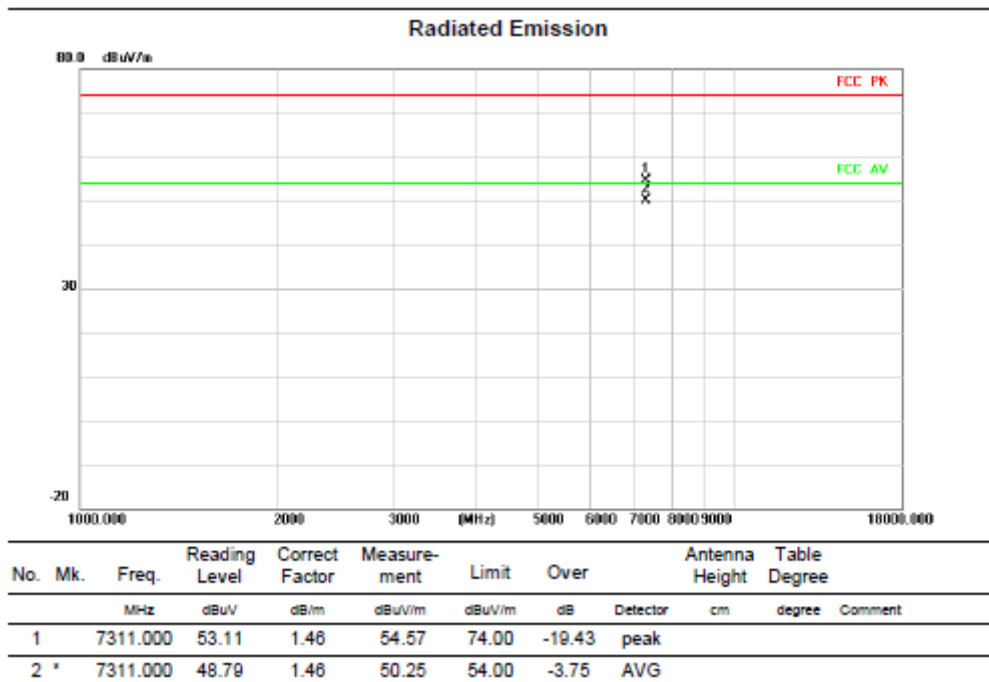
Test mode:11G-ANT1

Test Channel:6

VERTICAL



HORIZONTAL

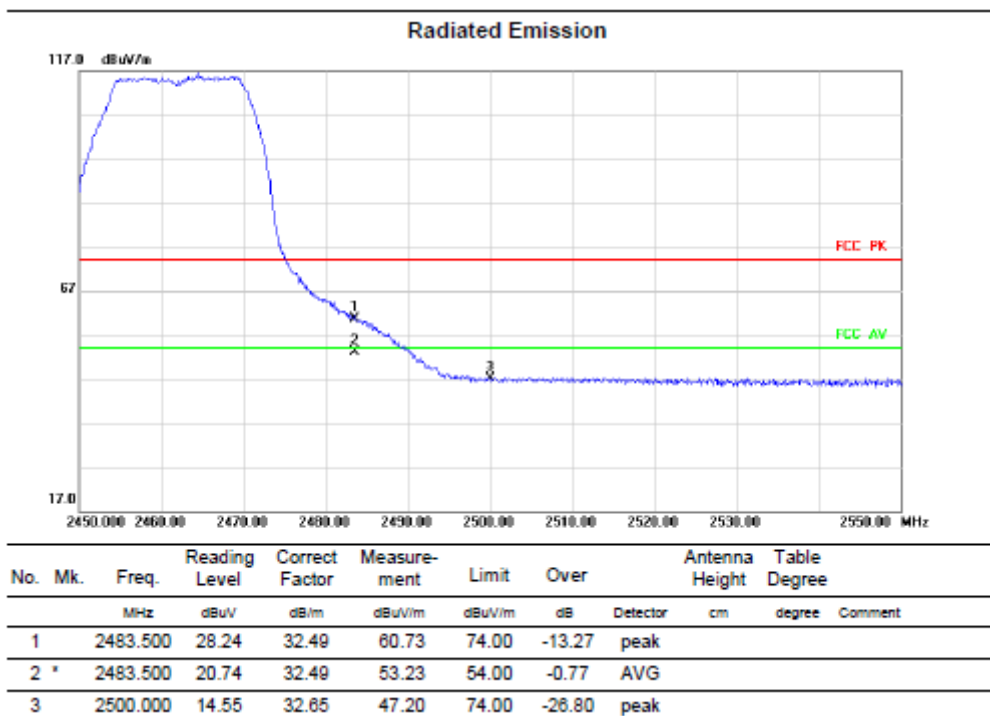
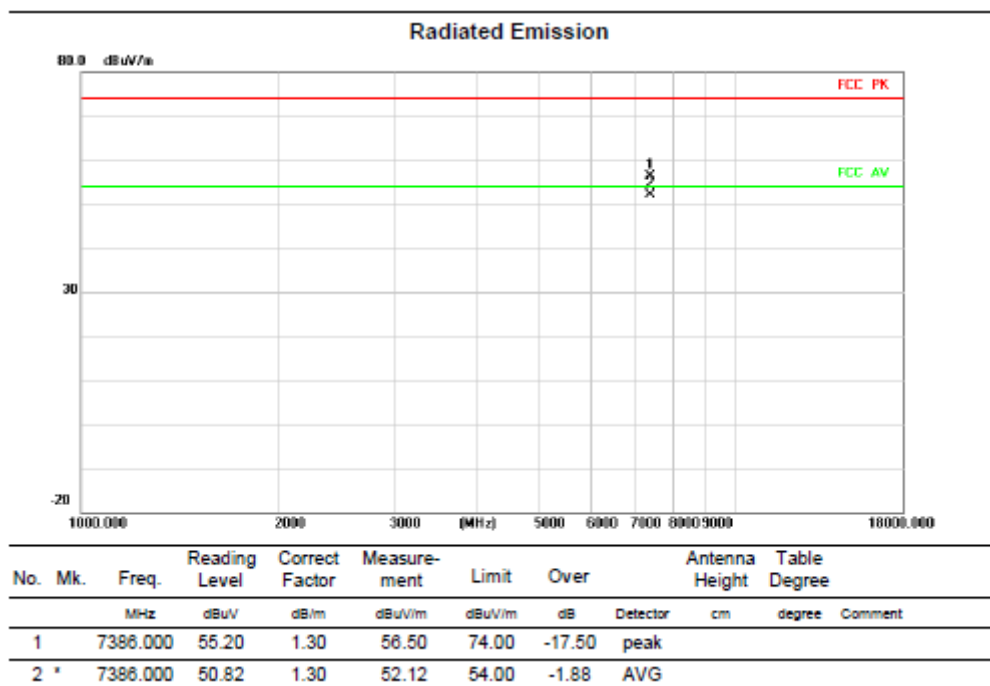


Above 1GHz (1GHz~18GHz)

Test mode: 11G-ANT1

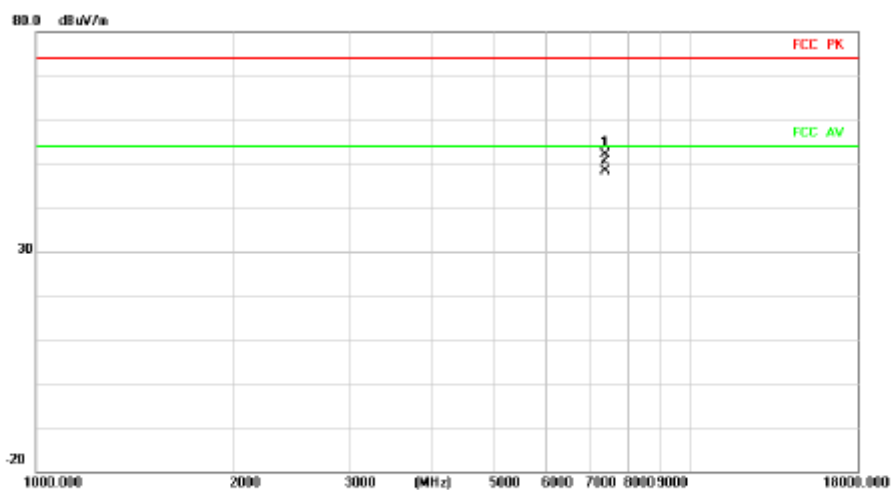
Test Channel:11

VERTICAL



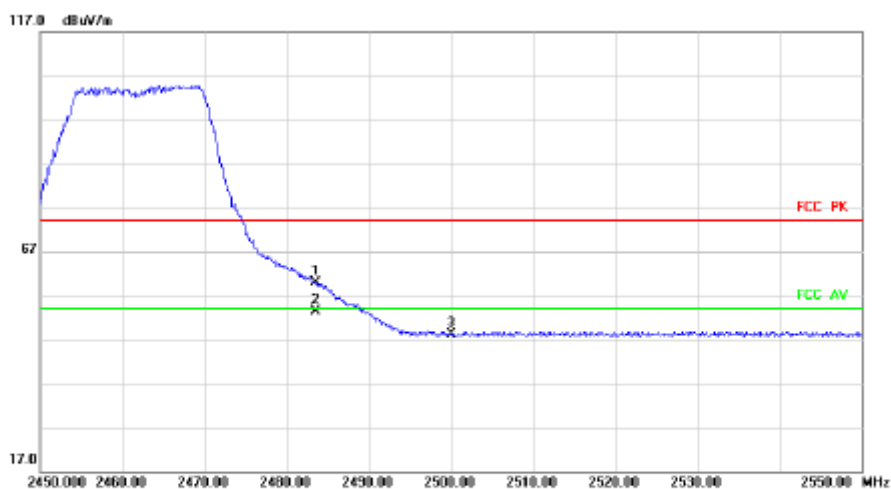
HORIZONTAL

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		7386.000	50.92	1.30	52.22	74.00	-21.78	peak	
2	*	7386.000	47.01	1.30	48.31	54.00	-5.69	AVG	

Radiated Emission



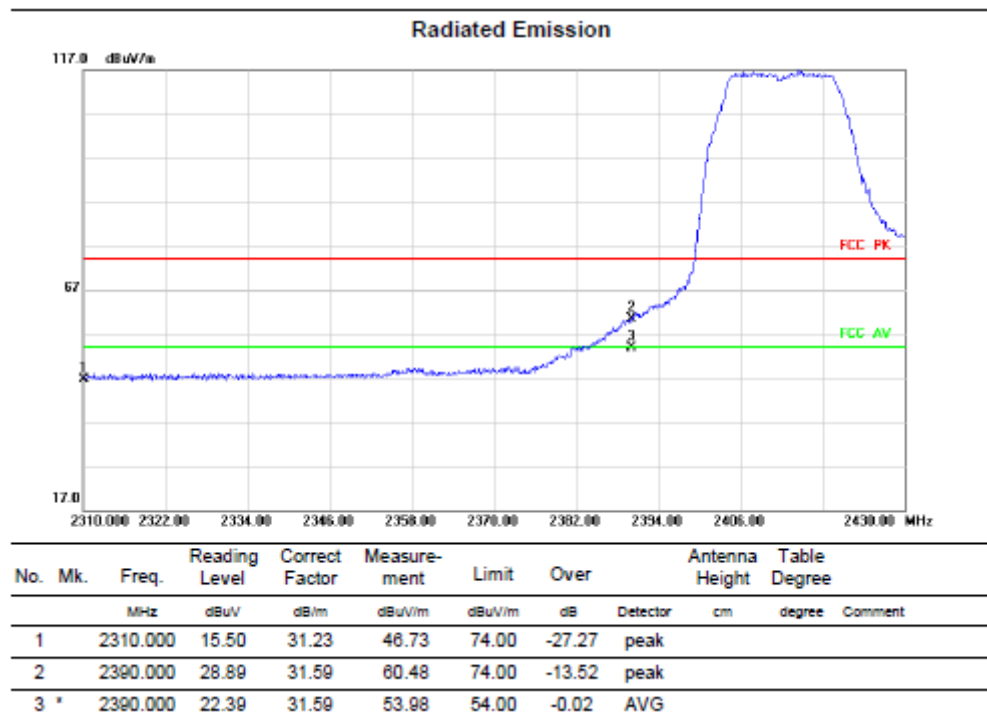
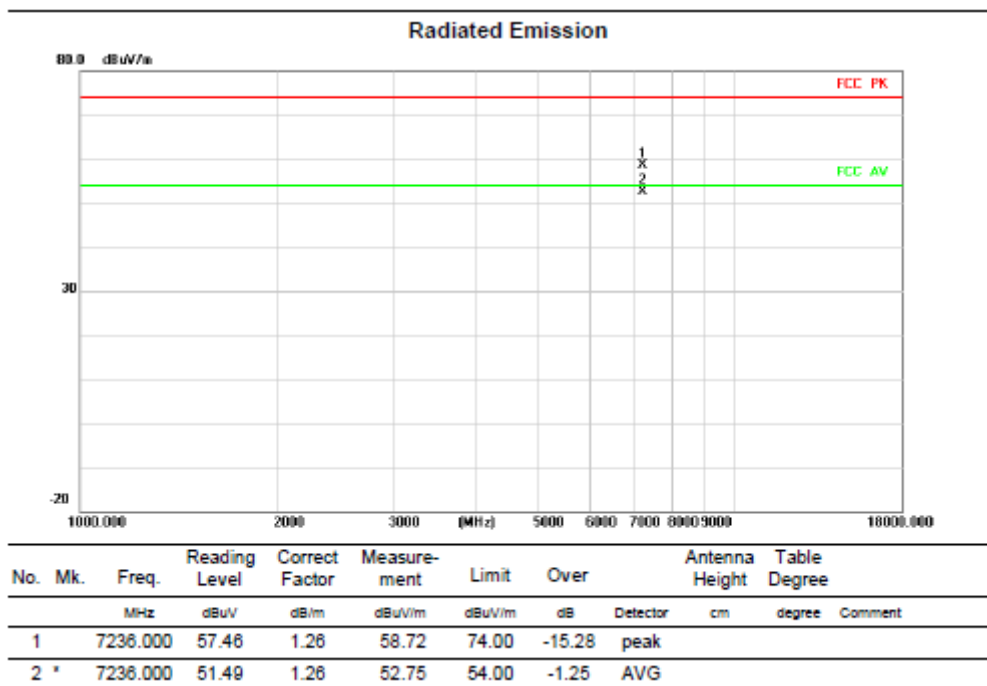
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	27.45	32.49	59.94	74.00	-14.06	peak	
2	*	2483.500	20.95	32.49	53.44	54.00	-0.56	AVG	
3		2500.000	15.47	32.65	48.12	74.00	-25.88	peak	

Above 1GHz (1GHz~18GHz)

Test mode:11G-ANT2

Test Channel:1

VERTICAL



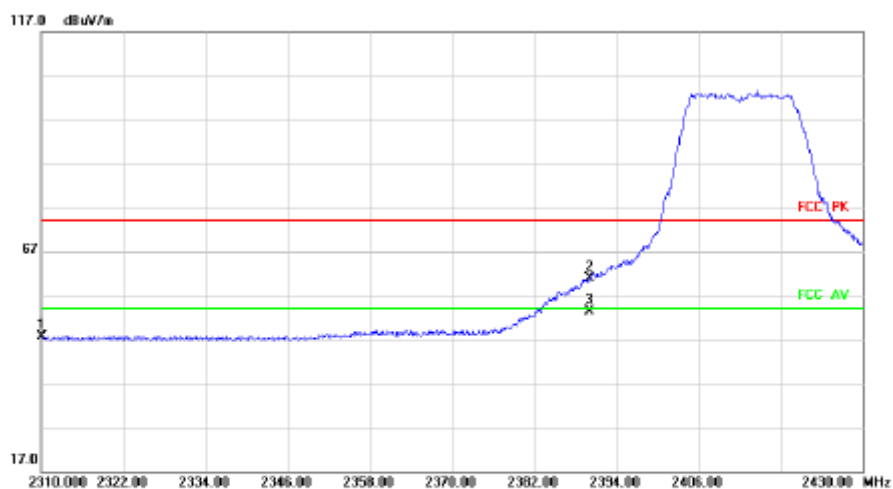
HORIZONTAL

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		7236.000	49.95	1.26	51.21	74.00	-22.79	peak	
2	*	7236.000	47.16	1.26	48.42	54.00	-5.58	AVG	

Radiated Emission



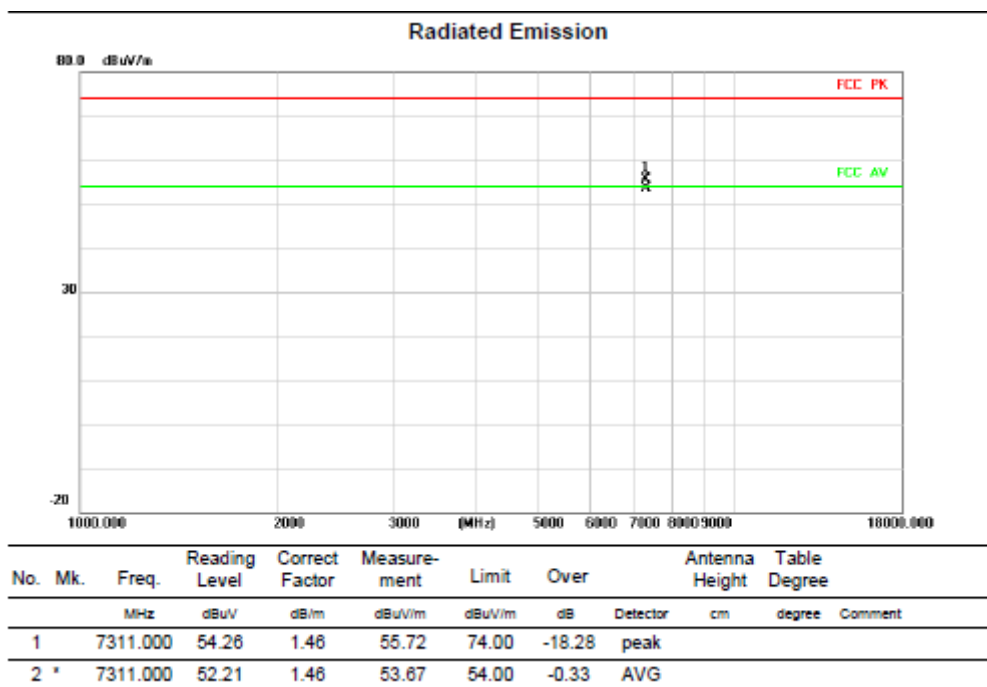
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	16.36	31.23	47.59	74.00	-26.41	peak	
2		2390.000	29.31	31.59	60.90	74.00	-13.10	peak	
3	*	2390.000	21.81	31.59	53.40	54.00	-0.60	AVG	

Above 1GHz (1GHz~18GHz)

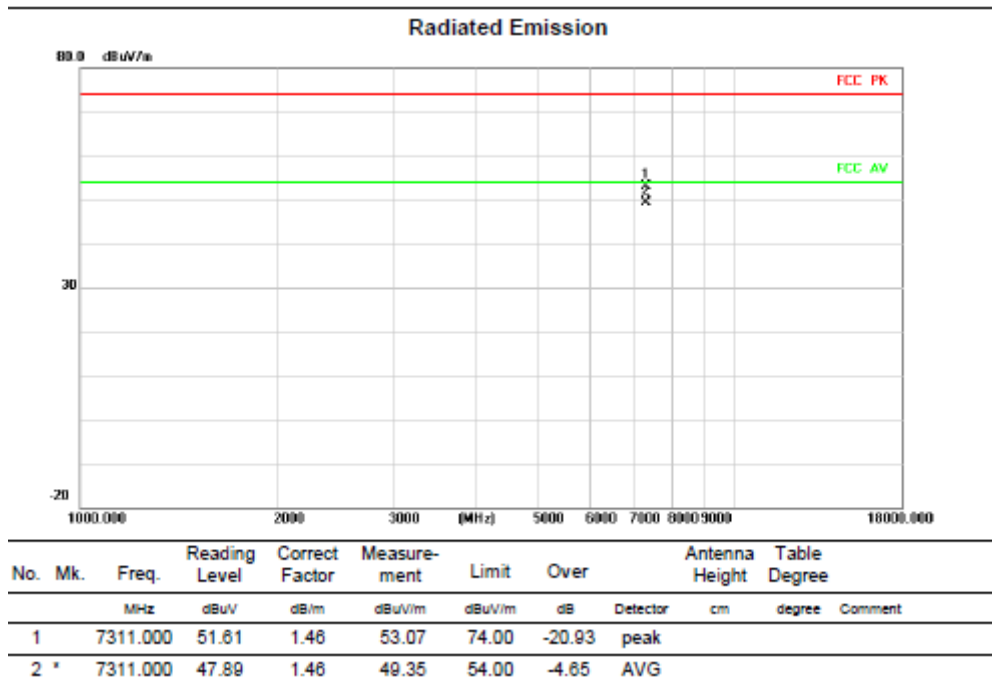
Test mode:11G-ANT2

Test Channel:6

VERTICAL



HORIZONTAL

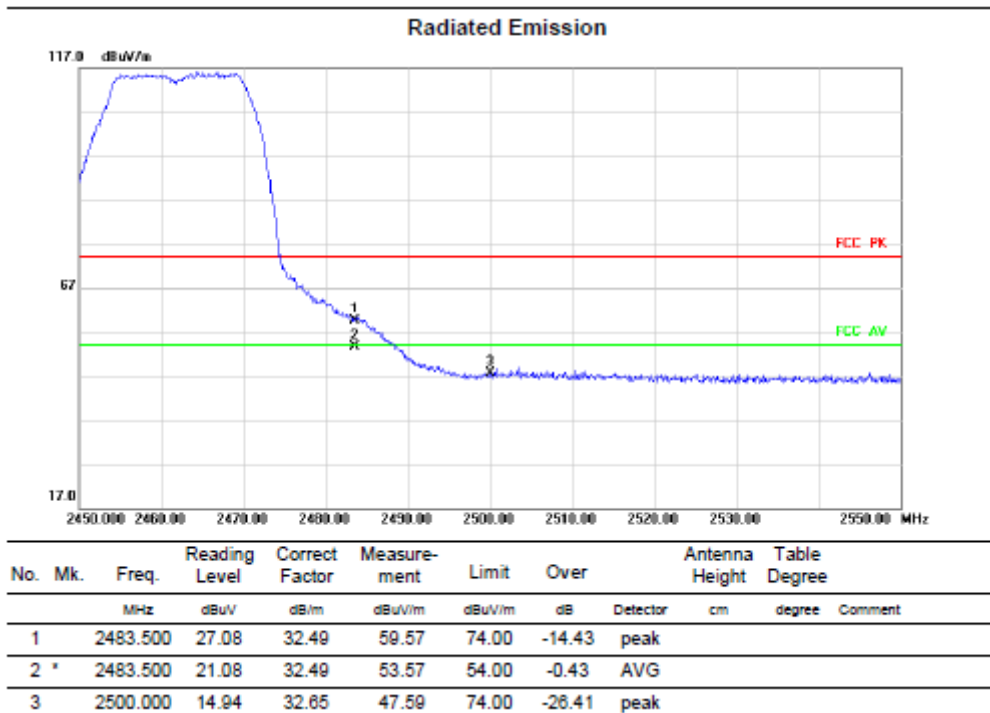
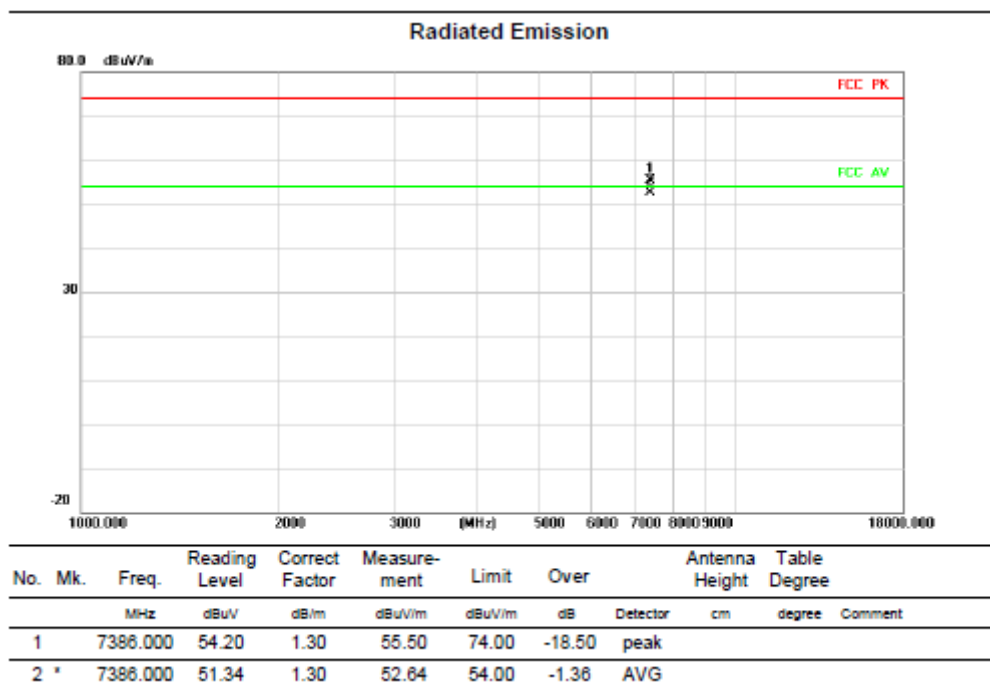


Above 1GHz (1GHz~18GHz)

Test mode: 11G-ANT2

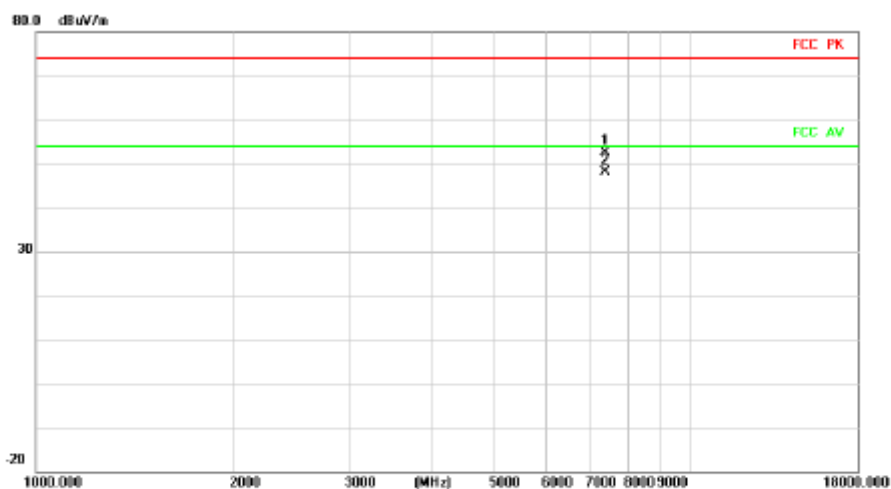
Test Channel:11

VERTICAL



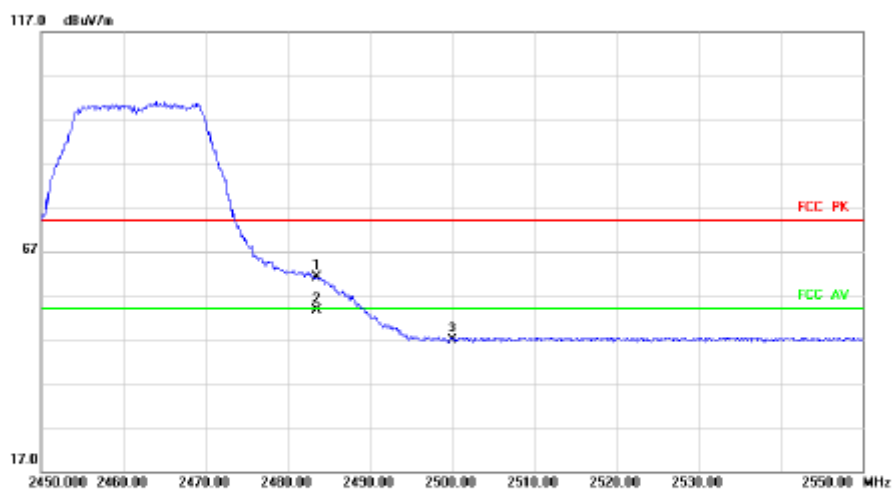
HORIZONTAL

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		7386.000	51.42	1.30	52.72	74.00	-21.28	peak		
2	*	7386.000	46.82	1.30	48.12	54.00	-5.88	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	Detector	cm	degree
1		2483.500	28.75	32.49	61.24	74.00	-12.76	peak		
2	*	2483.500	21.25	32.49	53.74	54.00	-0.26	AVG		
3		2500.000	14.21	32.65	46.86	74.00	-27.14	peak		

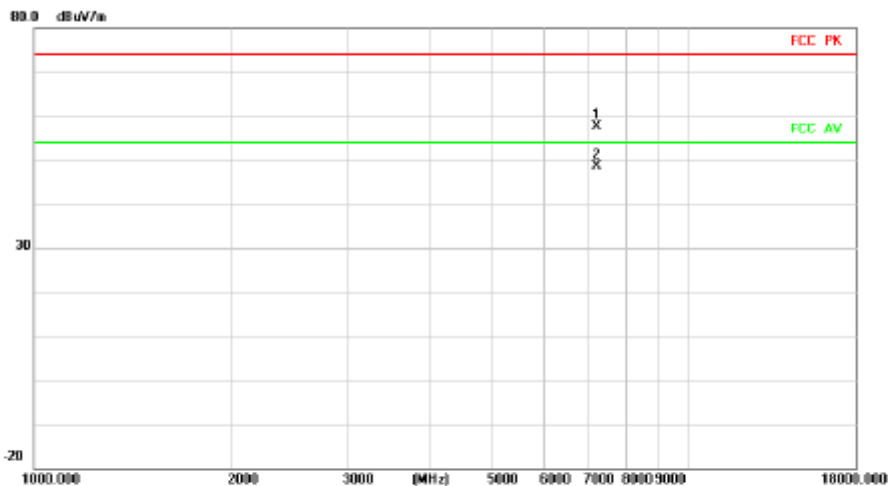
Above 1GHz (1GHz~18GHz)

Test mode: 11N20MIMO

Test Channel:1

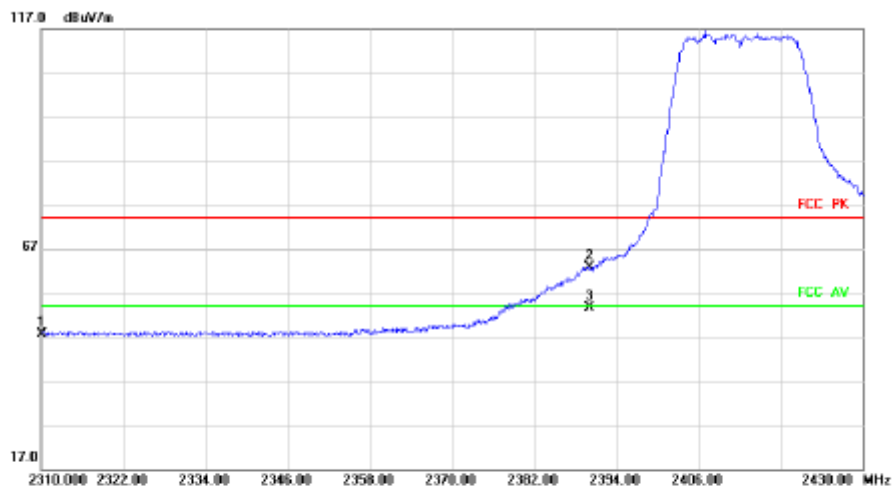
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		7236.000	56.49	1.26	57.75	74.00	-16.25	peak		
2 *		7236.000	47.43	1.26	48.69	54.00	-5.31	AVG		

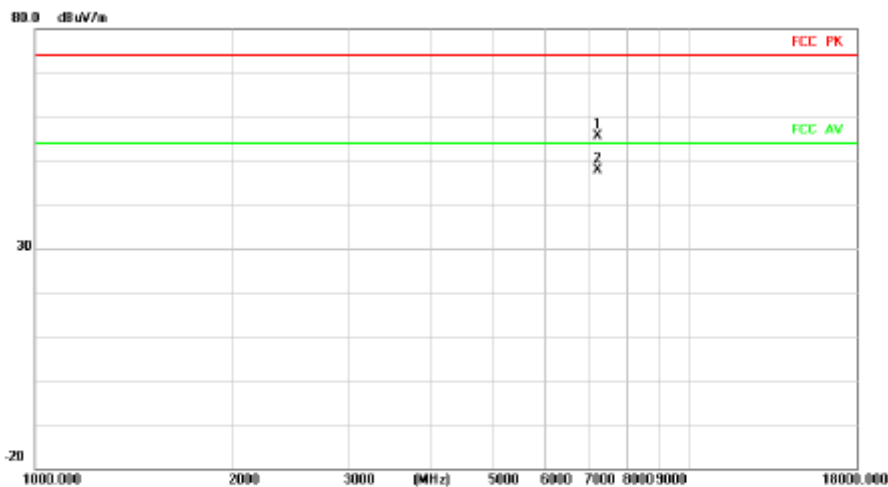
Radiated Emission



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	16.37	31.23	47.60	74.00	-26.40	peak		
2		2390.000	31.24	31.59	62.83	74.00	-11.17	peak		
3 *		2390.000	22.14	31.59	53.73	54.00	-0.27	AVG		

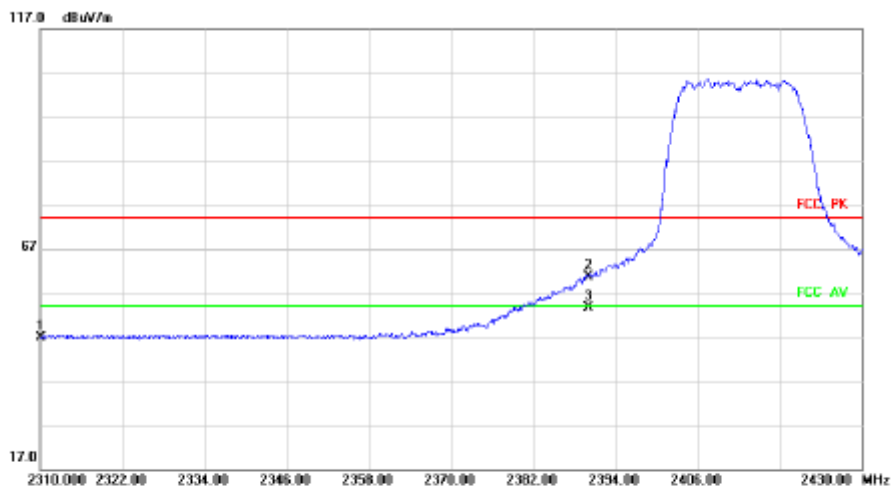
HORIZONTALA

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		7236.000	54.45	1.26	55.71	74.00	-18.29	peak		
2	*	7236.000	46.53	1.26	47.79	54.00	-6.21	AVG		

Radiated Emission



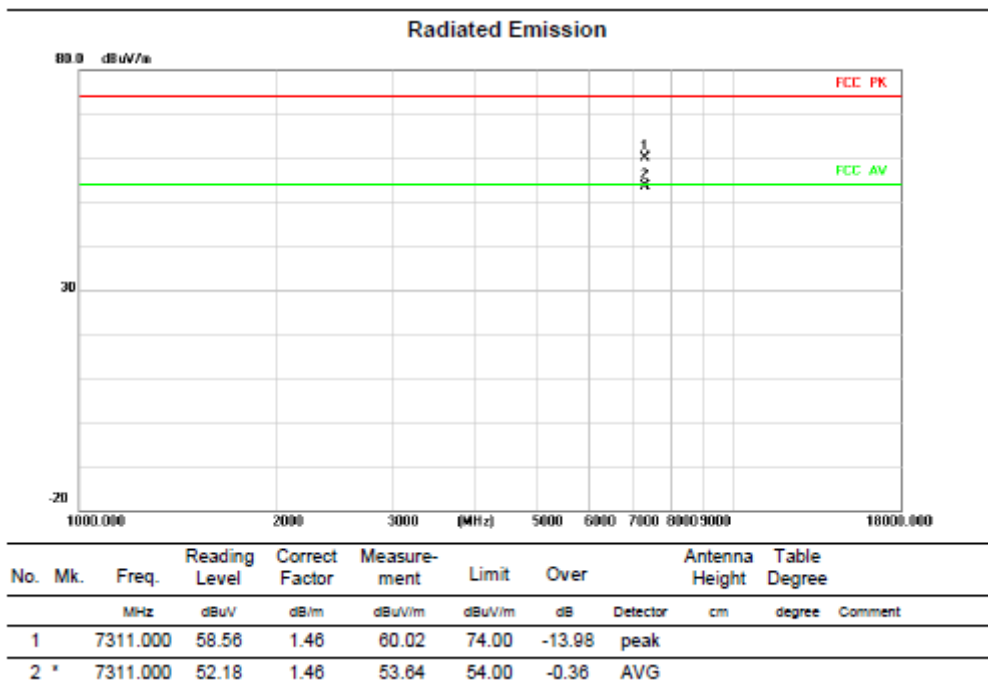
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	15.68	31.23	46.91	74.00	-27.09	peak		
2		2390.000	29.02	31.59	60.61	74.00	-13.39	peak		
3	*	2390.000	22.02	31.59	53.61	54.00	-0.39	AVG		

Above 1GHz (1GHz~18GHz)

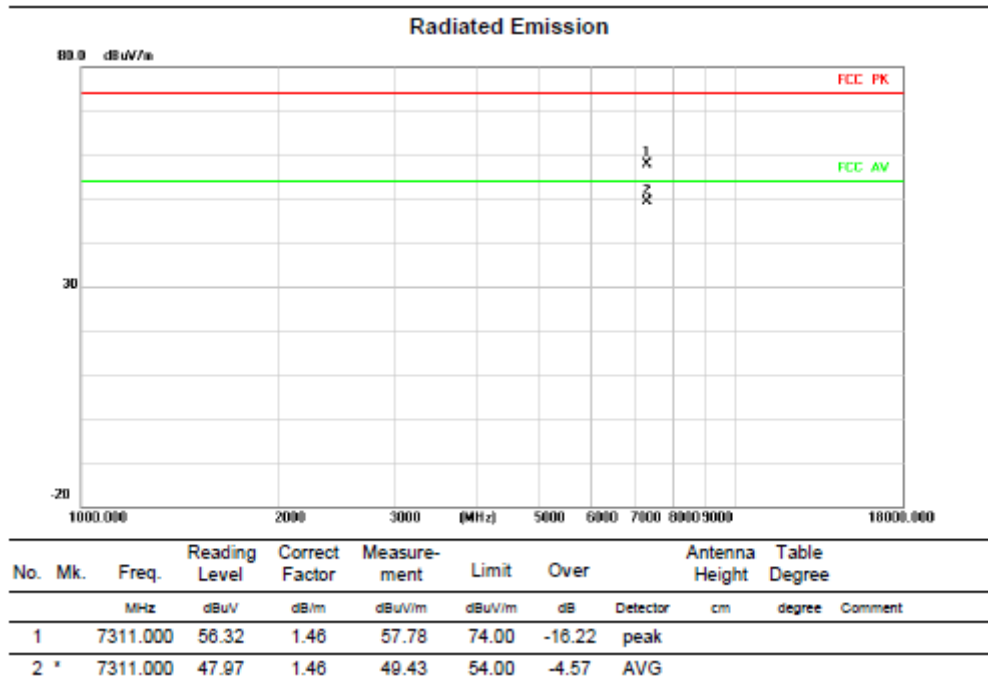
Test mode:11N20MIMO

Test Channel:6

VERTICAL



HORIZONTAL

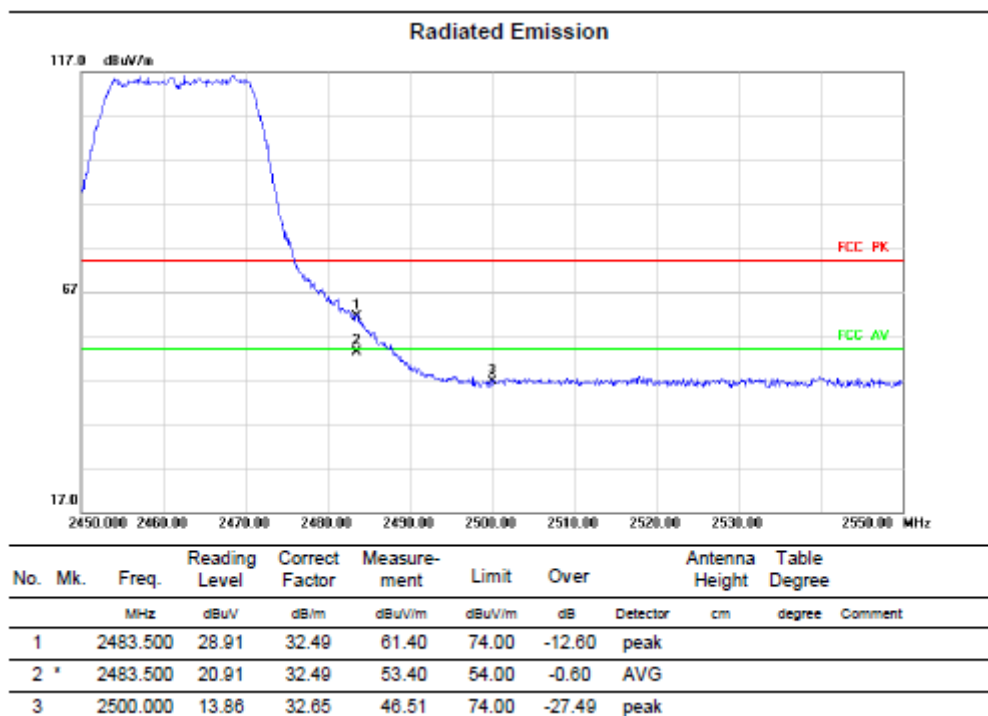
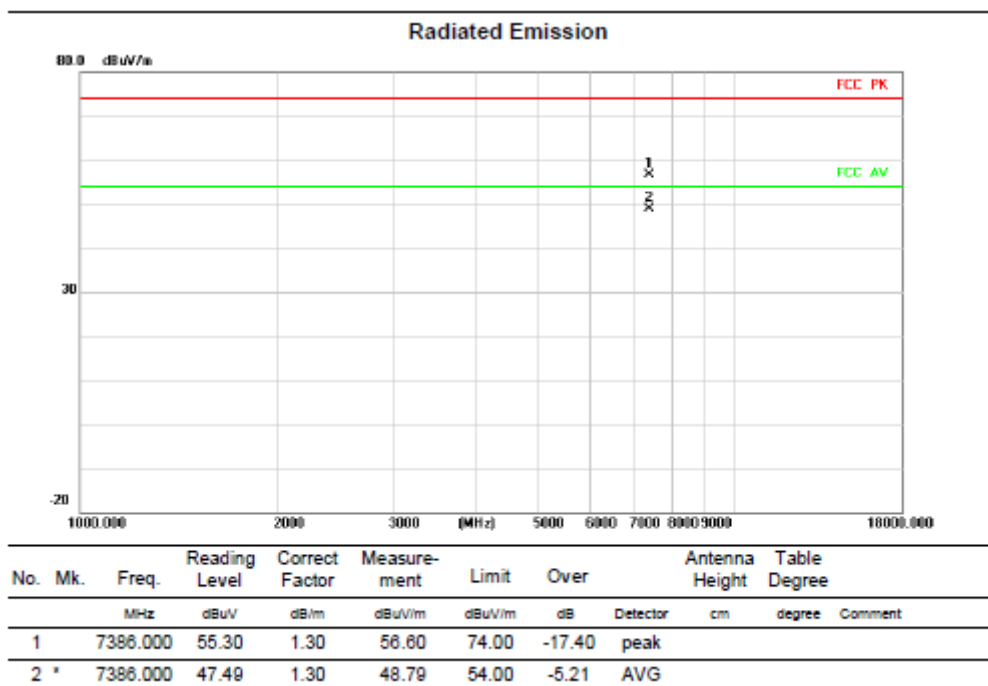


Above 1GHz (1GHz~18GHz)

Test mode: 11N20MIMO

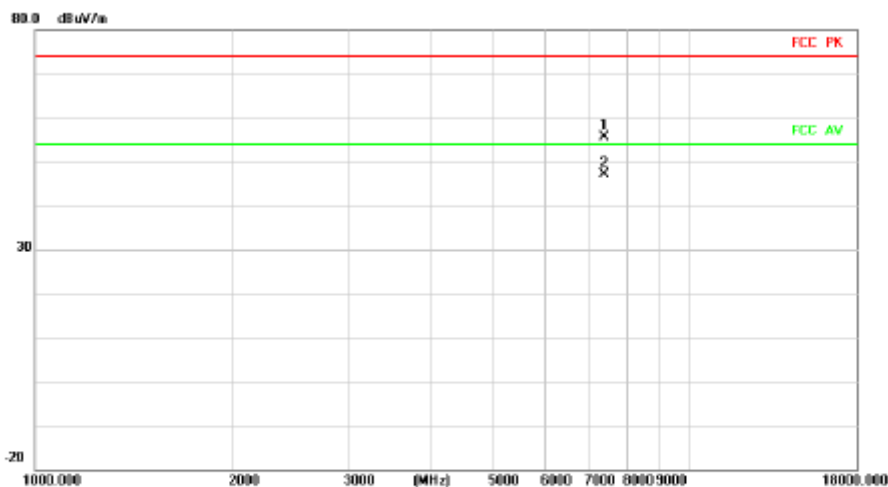
Test Channel:11

VERTICAL



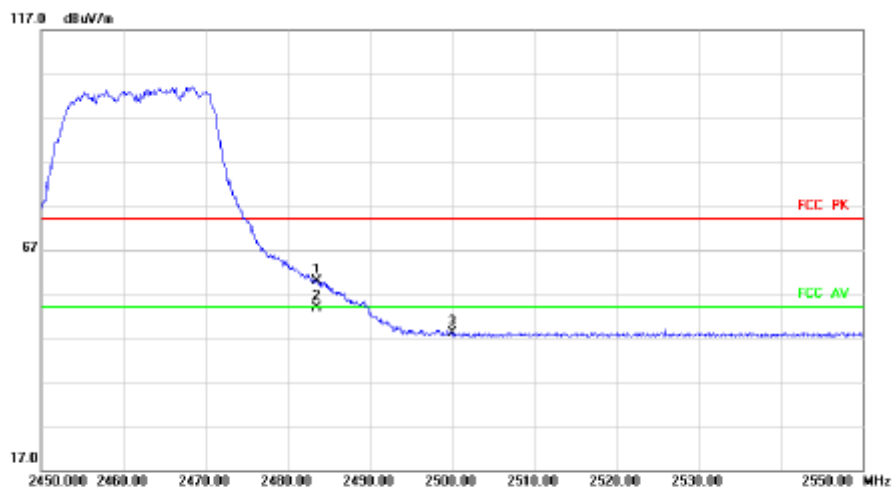
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dBm	dBuV/m	dBuV/m	dB	cm	degree
1		7386.000	54.24	1.30	55.54	74.00	-18.46	peak	
2	*	7386.000	45.95	1.30	47.25	54.00	-6.75	AVG	

Radiated Emission



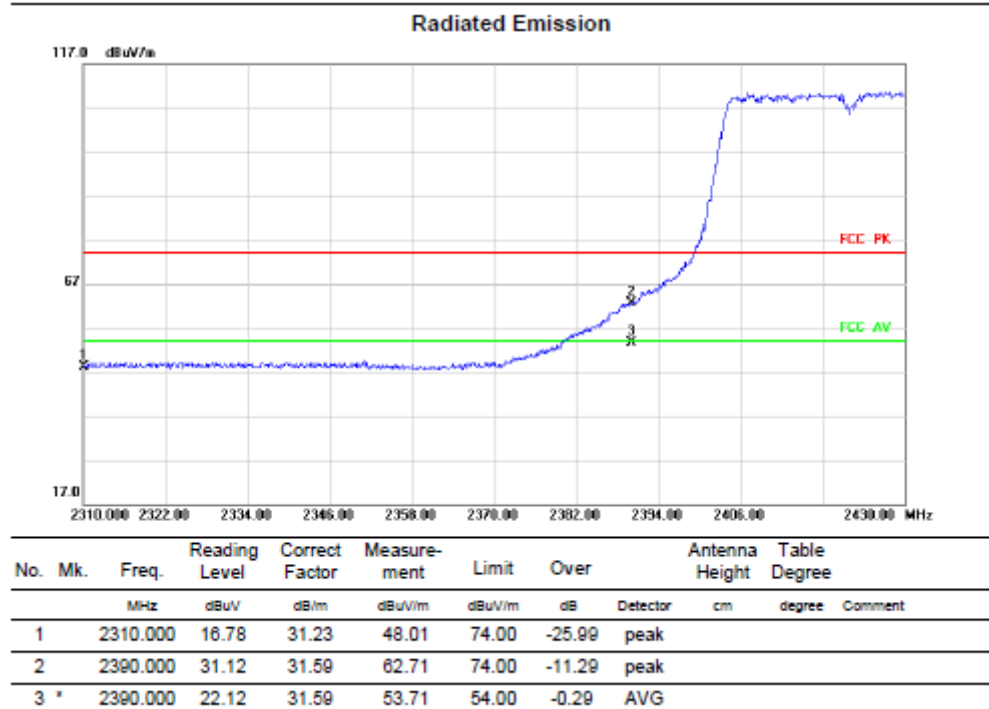
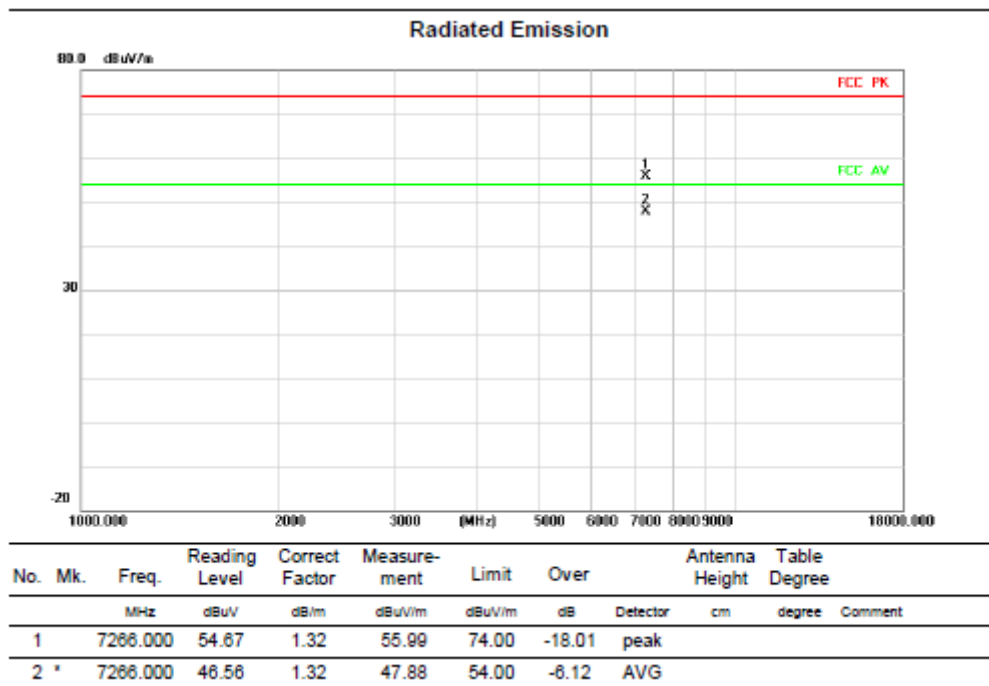
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dBm	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	27.33	32.49	59.82	74.00	-14.18	peak	
2	*	2483.500	21.33	32.49	53.82	54.00	-0.18	AVG	
3		2500.000	15.55	32.65	48.20	74.00	-25.80	peak	

Above 1GHz (1GHz~18GHz)

Test mode: 11N40MIMO

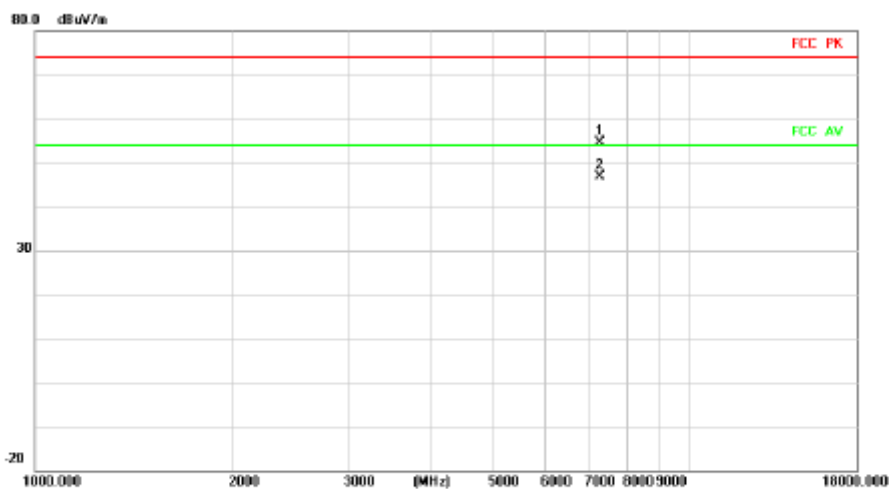
Test Channel:3

VERTICAL



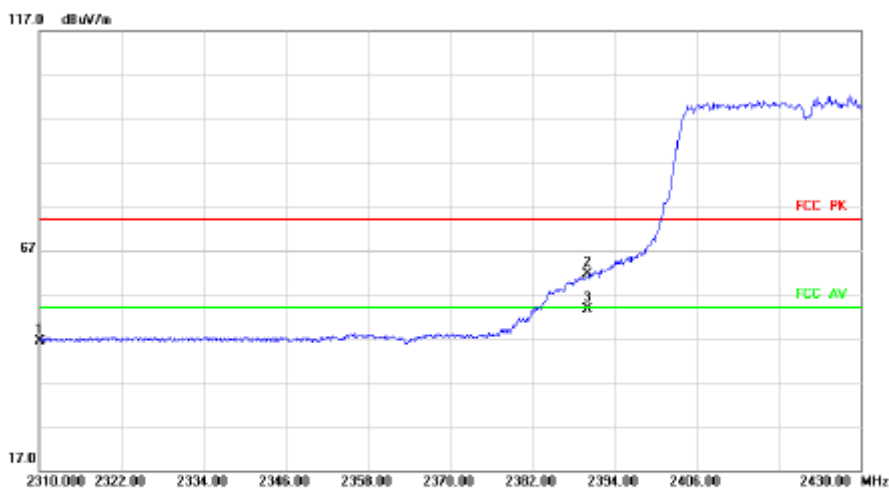
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		7268.000	53.32	1.32	54.64	74.00	-19.36	peak	
2	*	7268.000	45.54	1.32	46.86	54.00	-7.14	AVG	

Radiated Emission



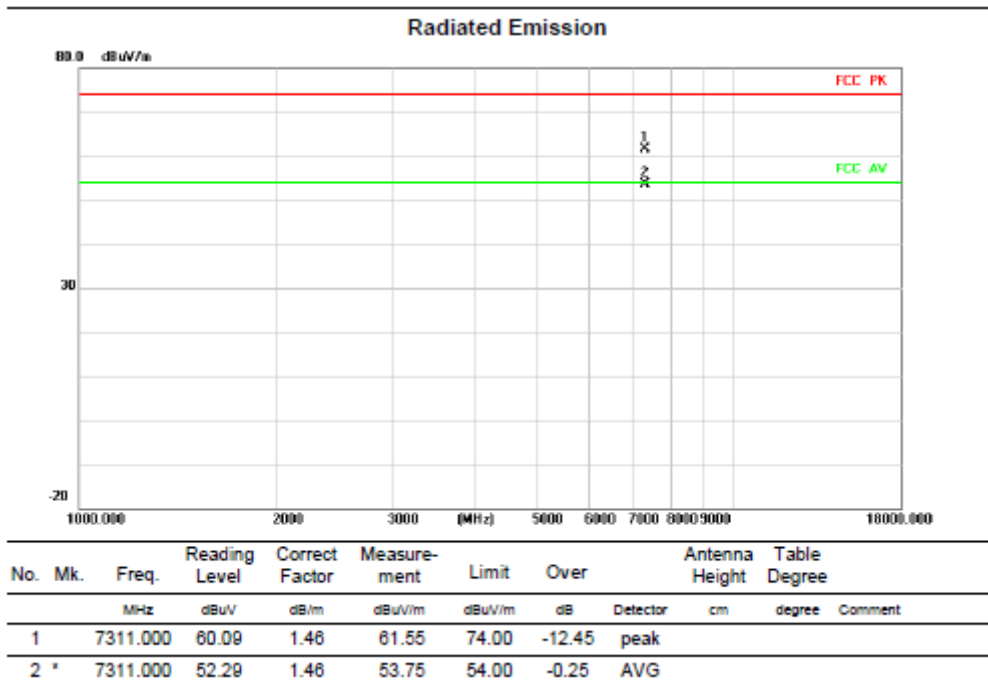
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	15.08	31.23	46.31	74.00	-27.69	peak	
2		2390.000	30.08	31.59	61.65	74.00	-12.35	peak	
3	*	2390.000	22.08	31.59	53.65	54.00	-0.35	AVG	

Above 1GHz (1GHz~18GHz)

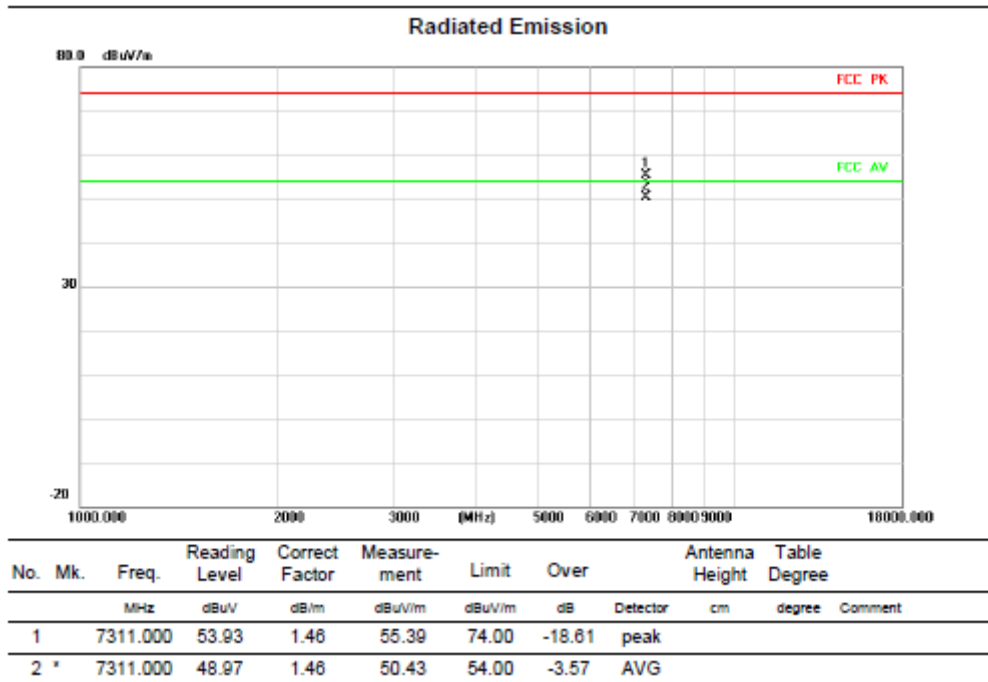
Test mode:11N40MIMO

Test Channel:6

VERTICAL



HORIZONTAL

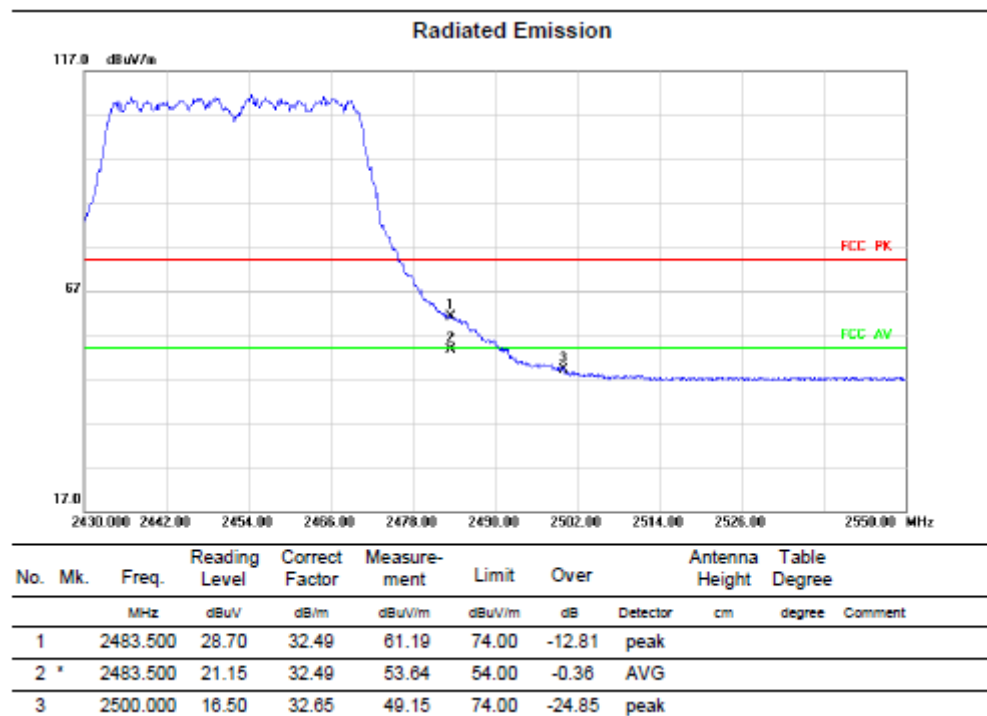
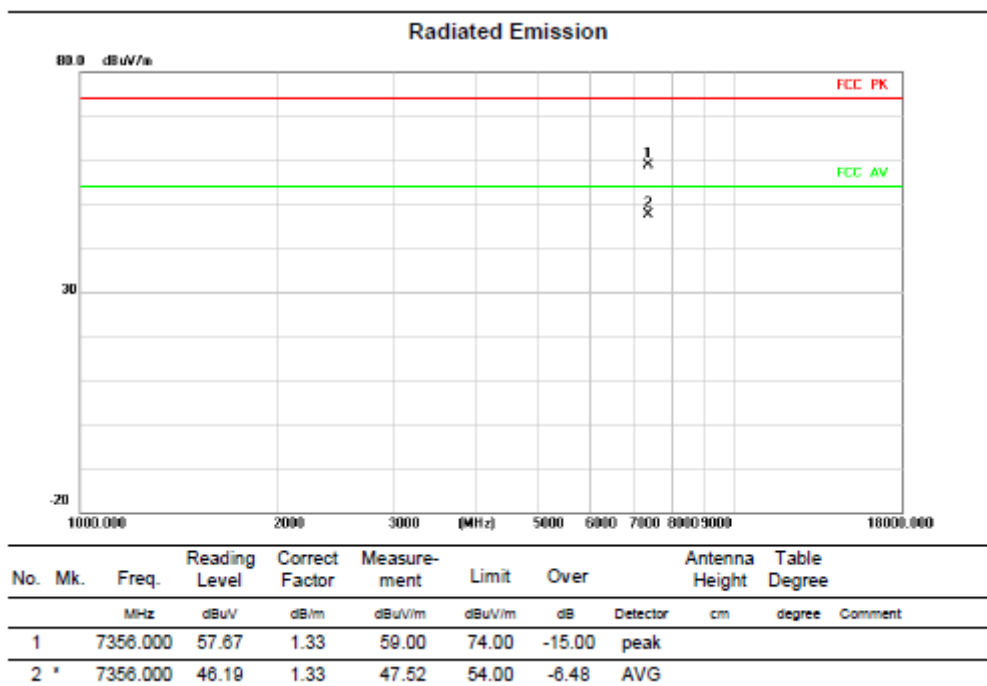


Above 1GHz (1GHz~18GHz)

Test mode: 11N40MIMO

Test Channel:9

VERTICAL

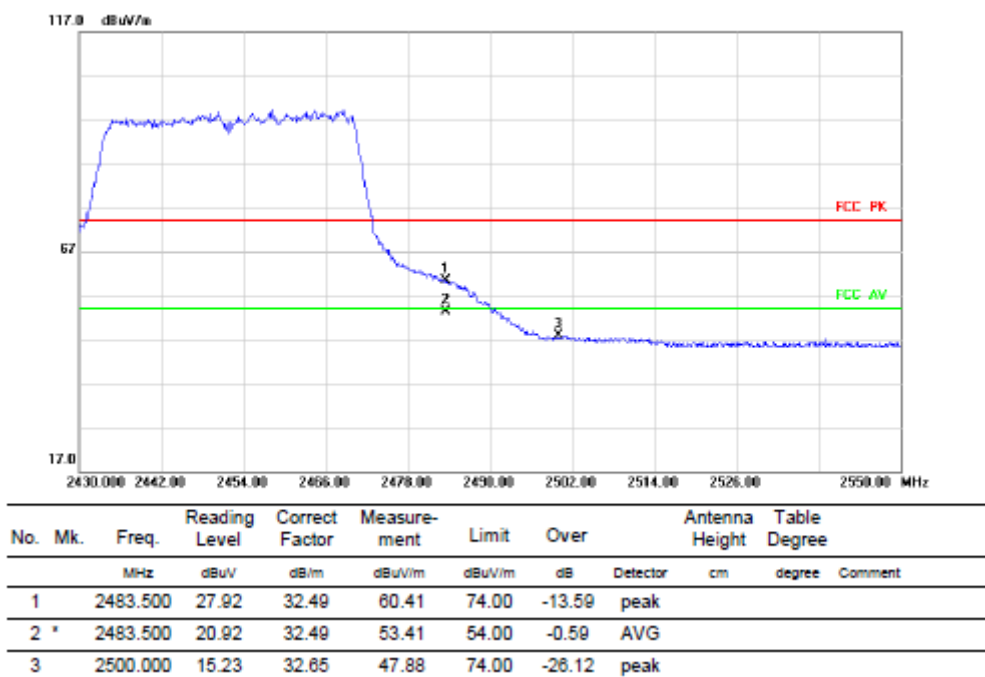


HORIZONTAL

Radiated Emission



Radiated Emission

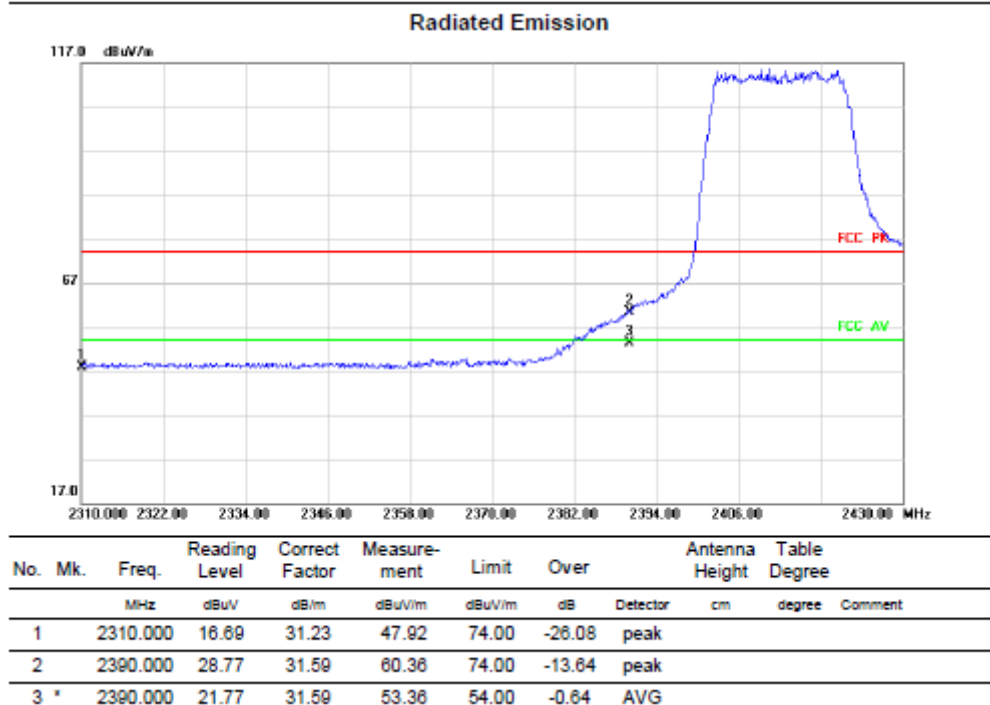
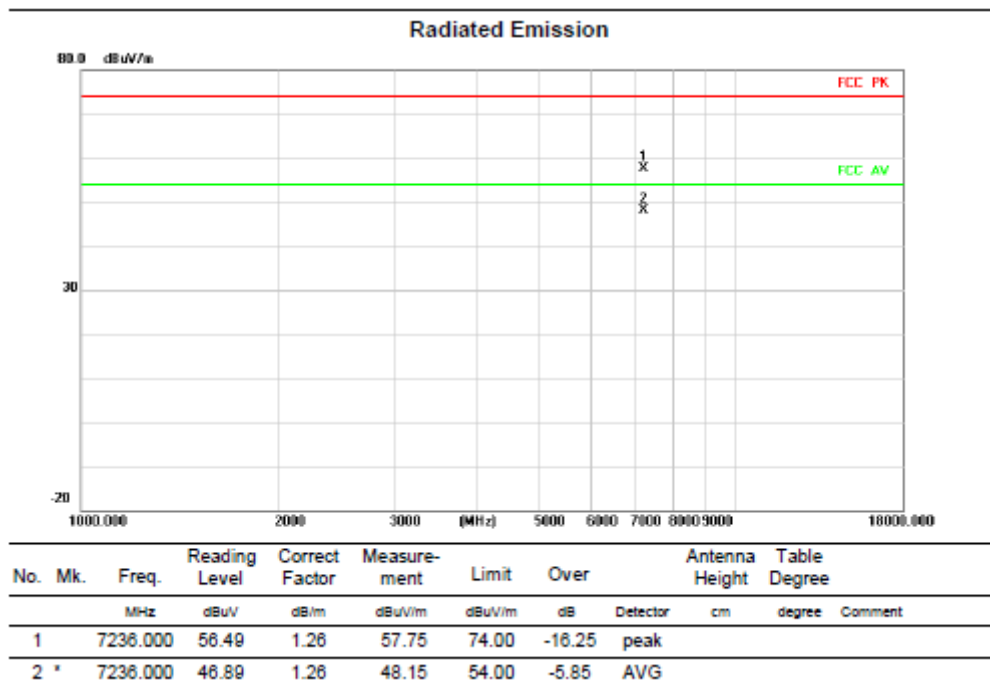


Above 1GHz (1GHz~18GHz)

Test mode: 11AX20MIMO

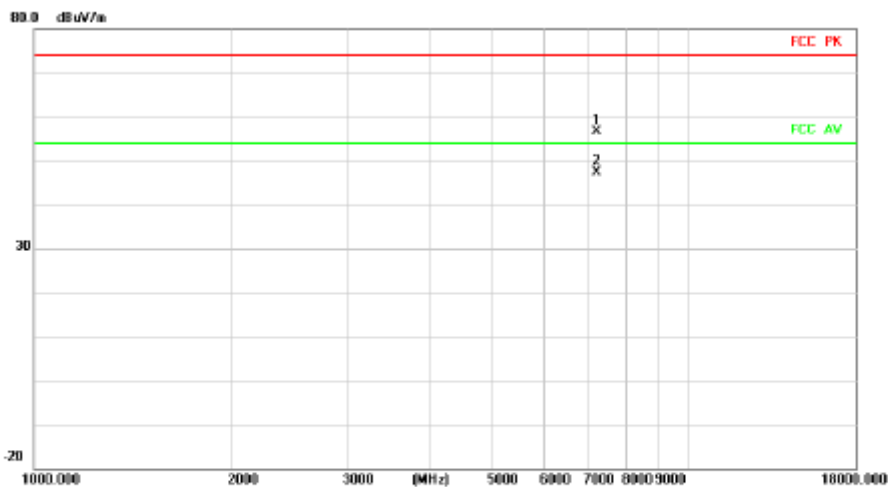
Test Channel:1

VERTICAL



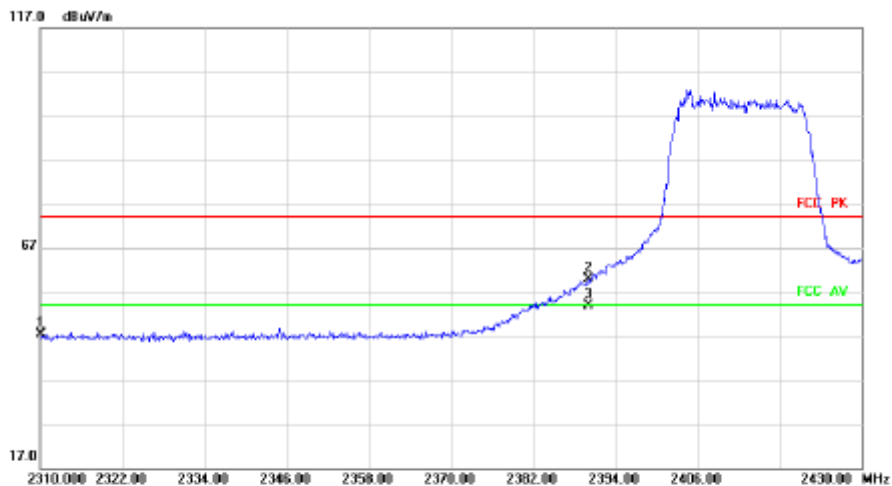
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dBm	dBuV/m	dBuV/m	dB	cm	degree
1		7236.000	55.45	1.26	56.71	74.00	-17.29	peak	
2	*	7236.000	46.02	1.26	47.28	54.00	-6.72	AVG	

Radiated Emission



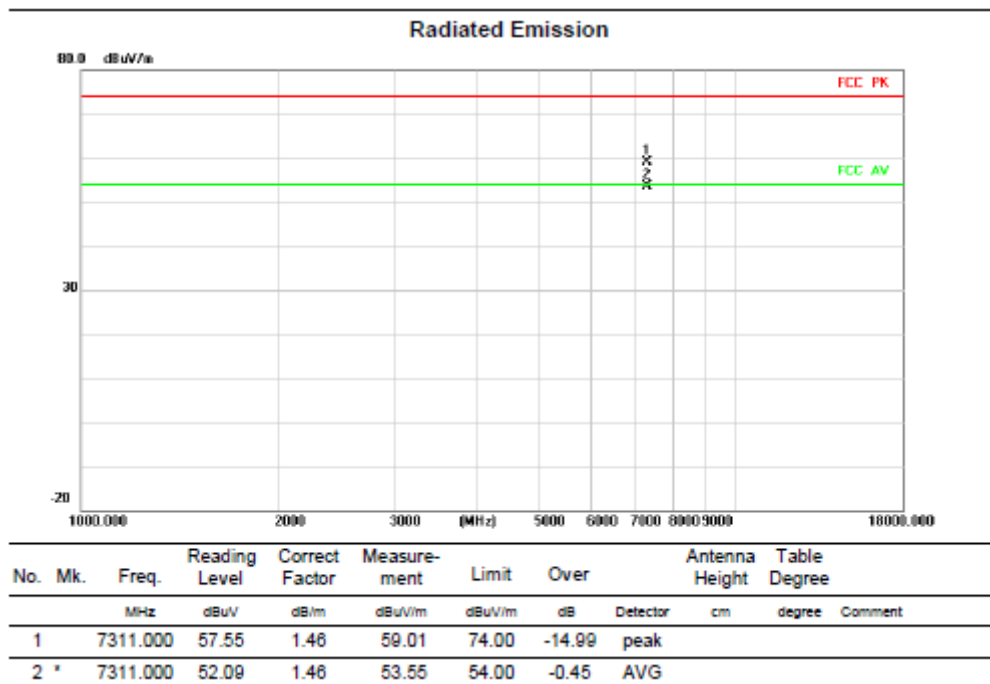
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dBm	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	16.15	31.23	47.38	74.00	-26.62	peak	
2		2390.000	28.26	31.59	59.85	74.00	-14.15	peak	
3	*	2390.000	22.26	31.59	53.85	54.00	-0.15	AVG	

Above 1GHz (1GHz~18GHz)

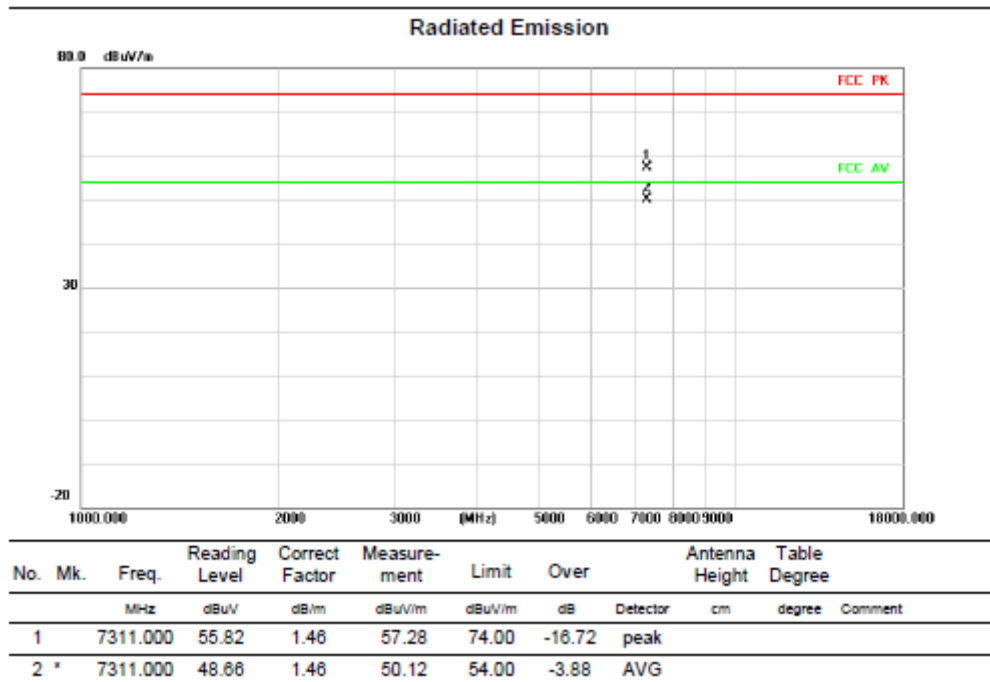
Test mode:11AX20MIMO

Test Channel:6

VERTICAL



HORIZONTAL

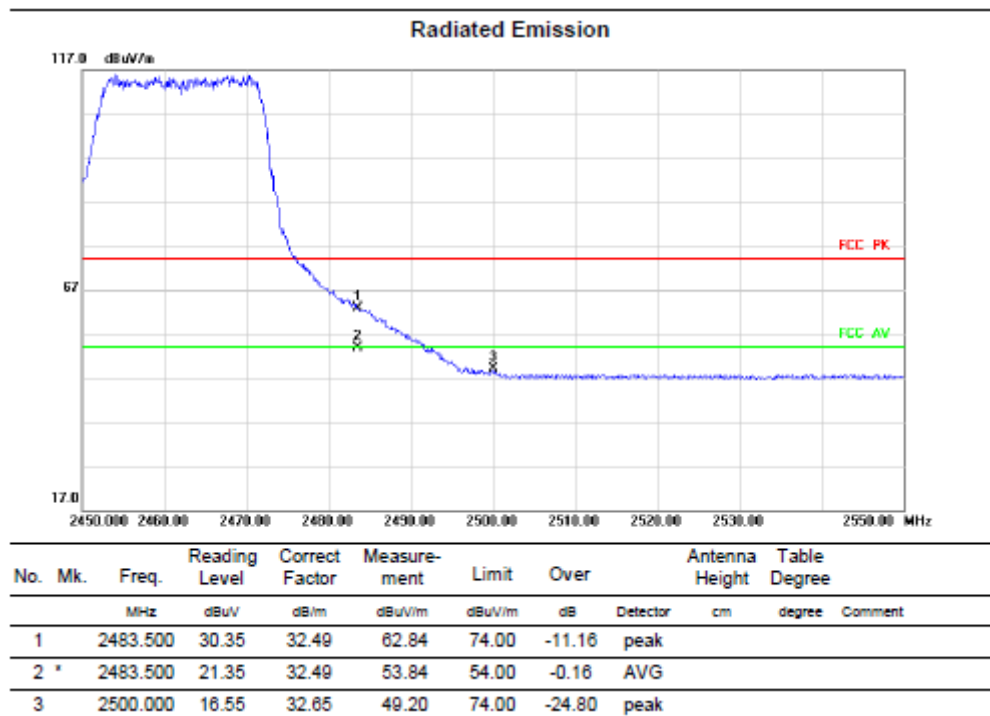
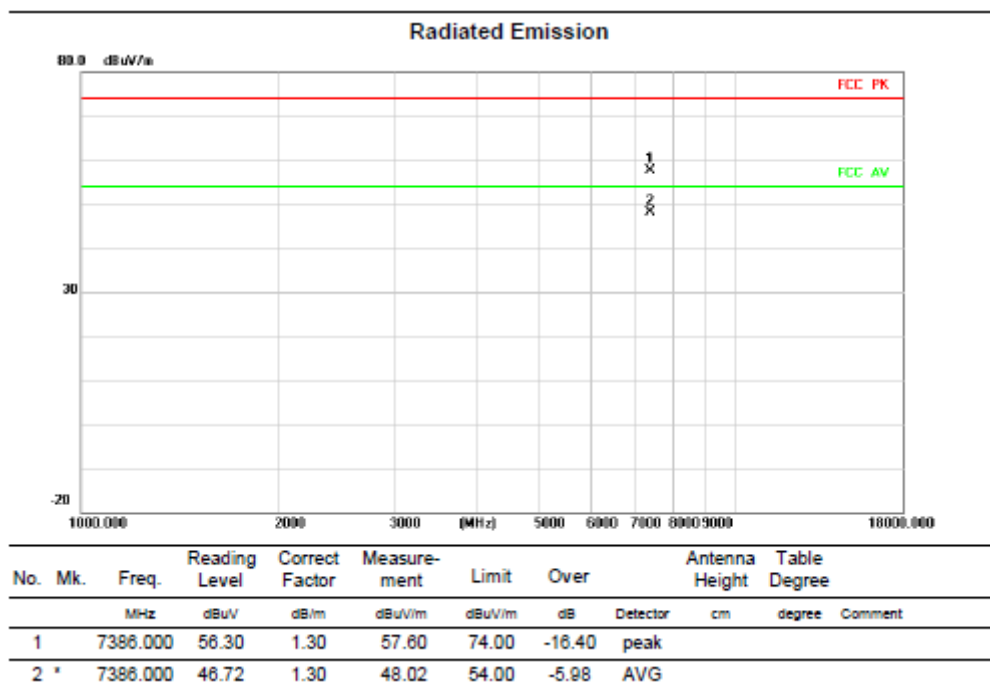


Above 1GHz (1GHz~18GHz)

Test mode: 11AX20MIMO

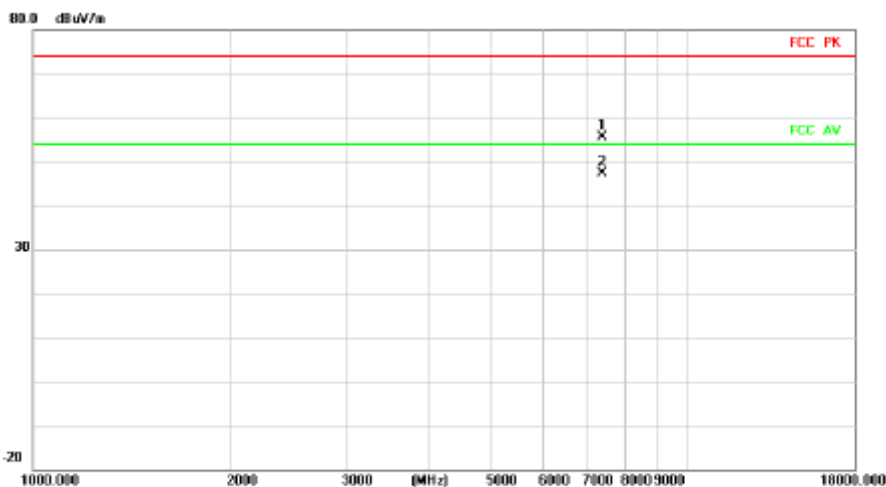
Test Channel:11

VERTICAL



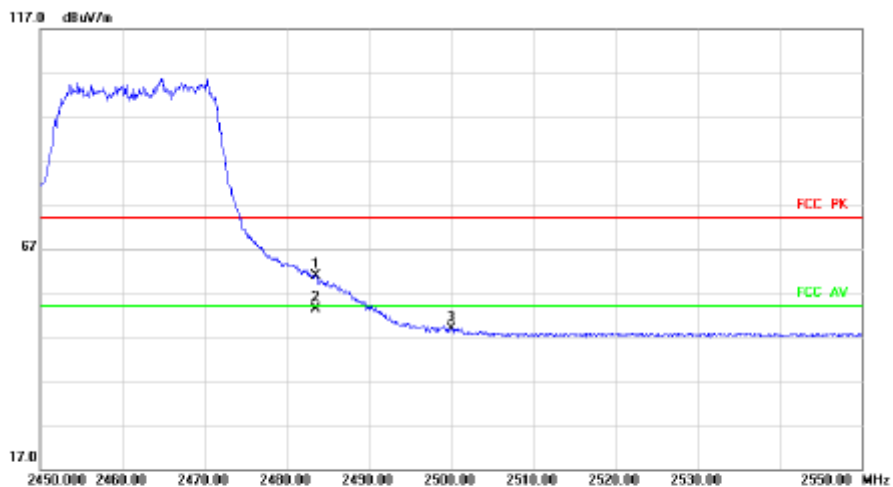
HORIZONTAL

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		7386.000	54.24	1.30	55.54	74.00	-18.46	peak	
2	*	7386.000	46.04	1.30	47.34	54.00	-6.66	AVG	

Radiated Emission



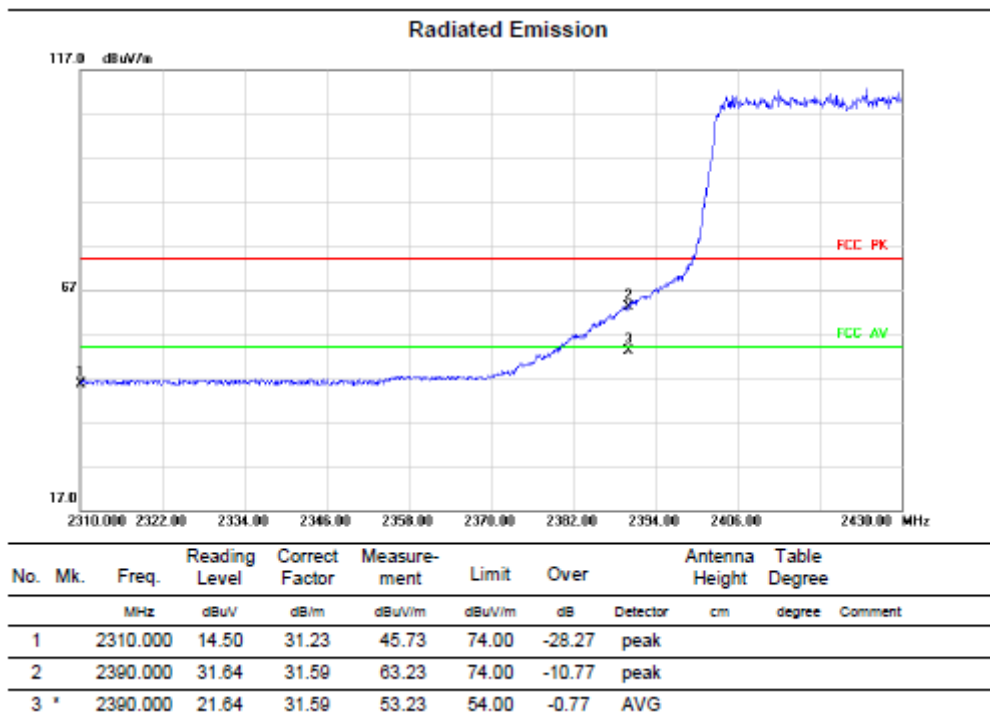
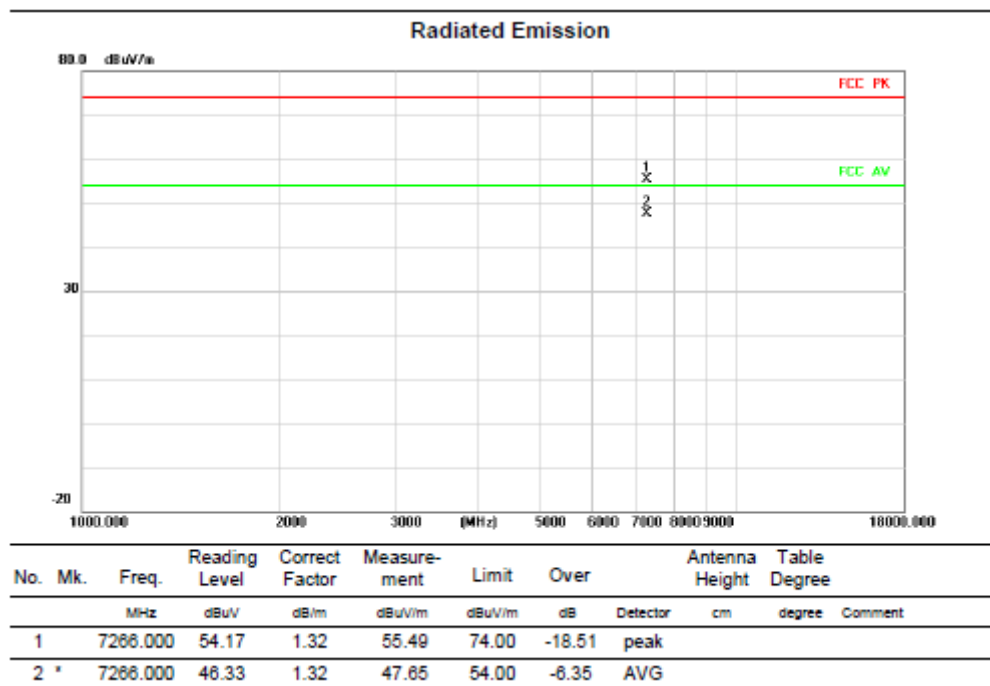
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	28.39	32.49	60.88	74.00	-13.12	peak	
2	*	2483.500	20.89	32.49	53.38	54.00	-0.62	AVG	
3		2500.000	16.31	32.65	48.96	74.00	-25.04	peak	

Above 1GHz (1GHz~18GHz)

Test mode: 11AX40MIMO

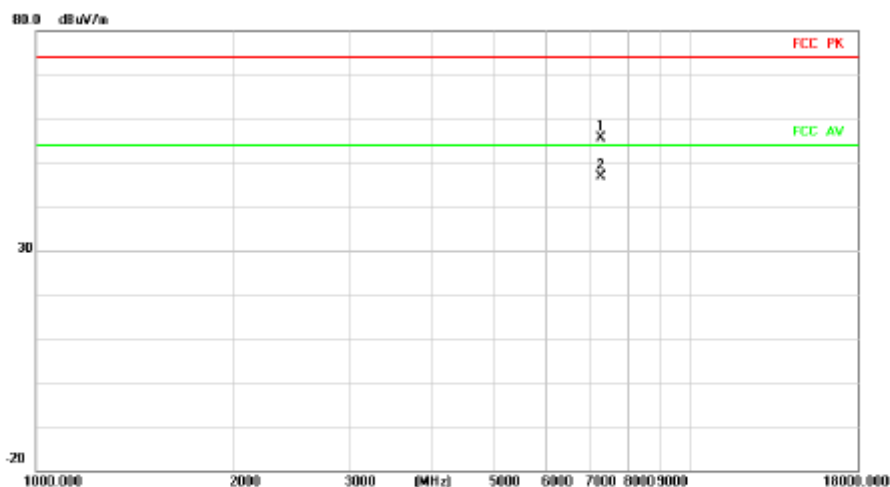
Test Channel:3

VERTICAL



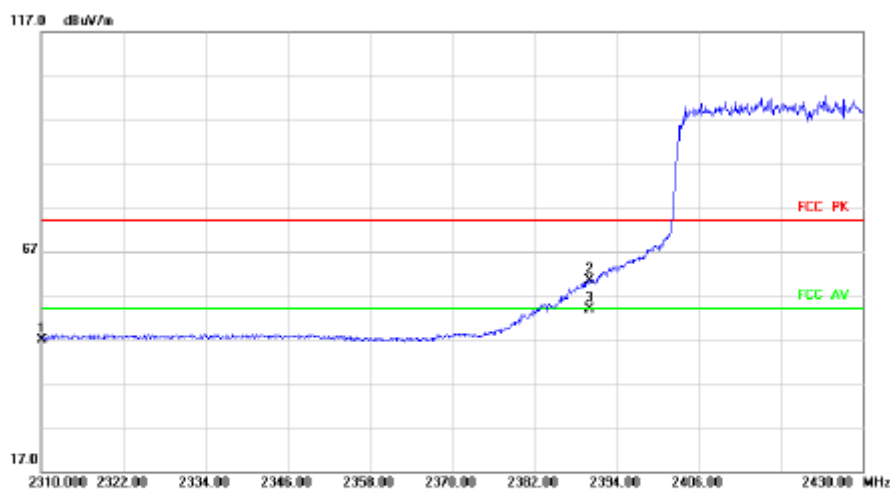
HORIZONTAL

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		7266.000	54.32	1.32	55.64	74.00	-18.36	peak	
2 *		7266.000	45.54	1.32	46.86	54.00	-7.14	AVG	

Radiated Emission



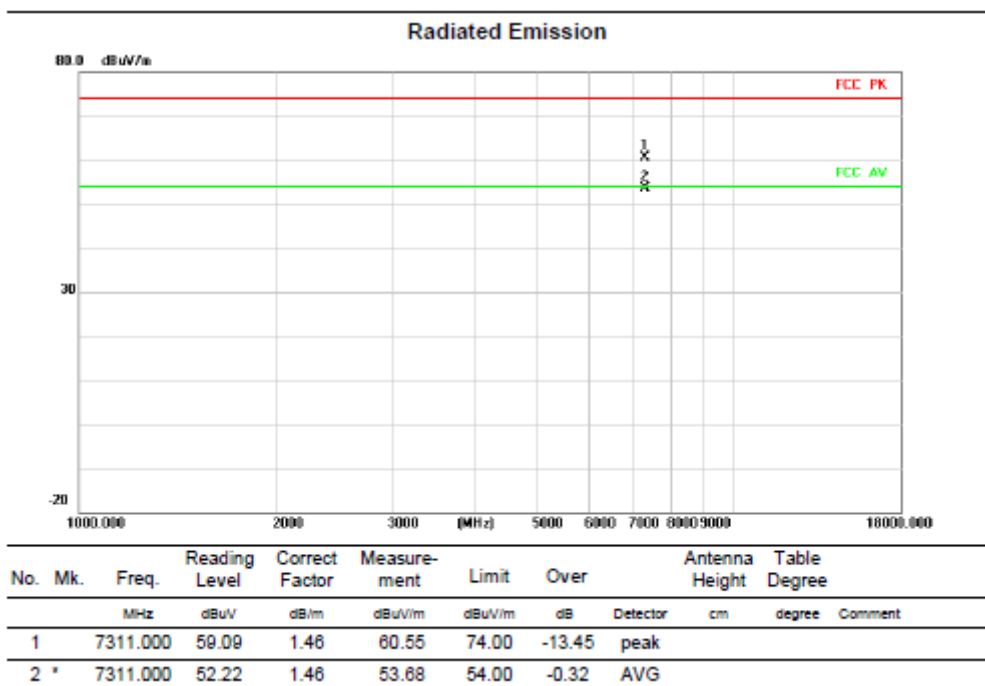
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	15.76	31.23	46.99	74.00	-27.01	peak	
2		2390.000	28.67	31.59	60.26	74.00	-13.74	peak	
3 *		2390.000	22.17	31.59	53.76	54.00	-0.24	AVG	

Above 1GHz (1GHz~18GHz)

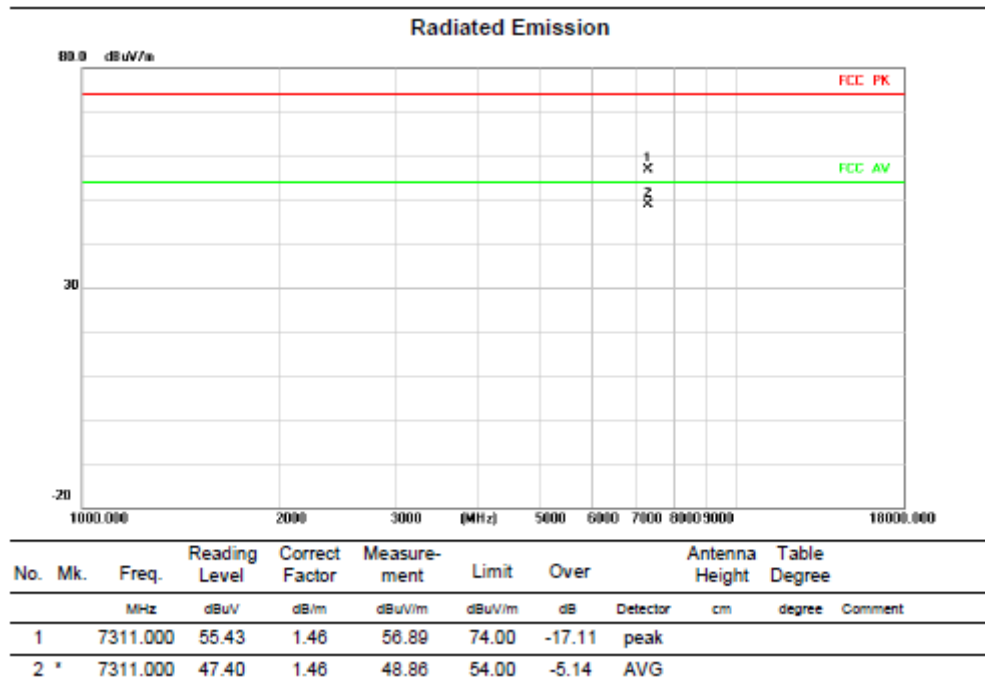
Test mode:11AX40MIMO

Test Channel:6

VERTICAL



HORIZONTAL

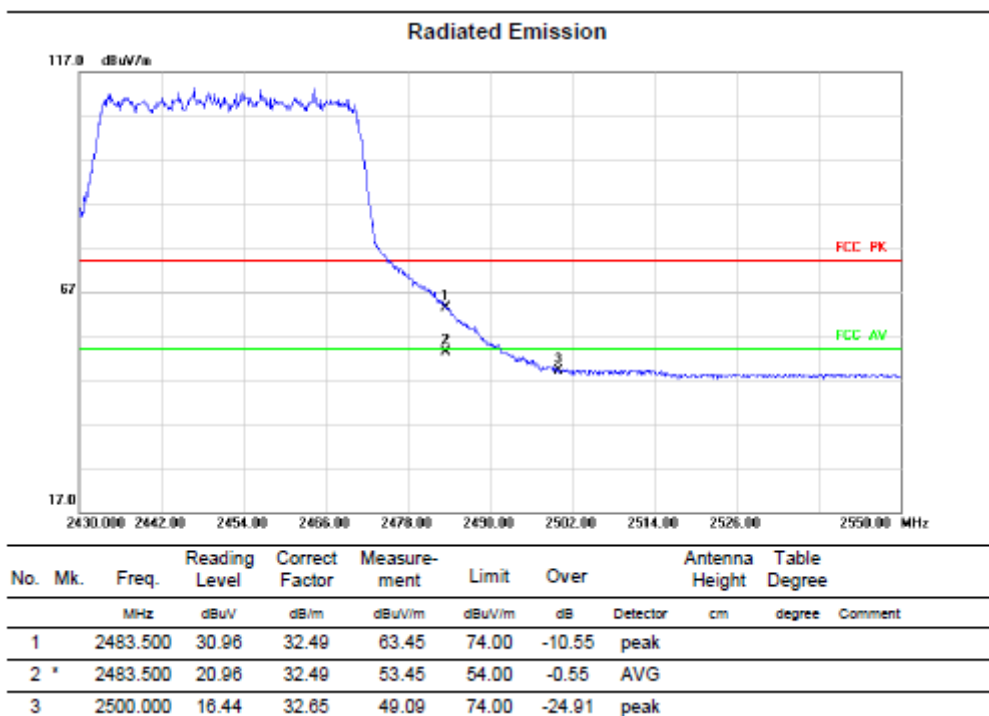
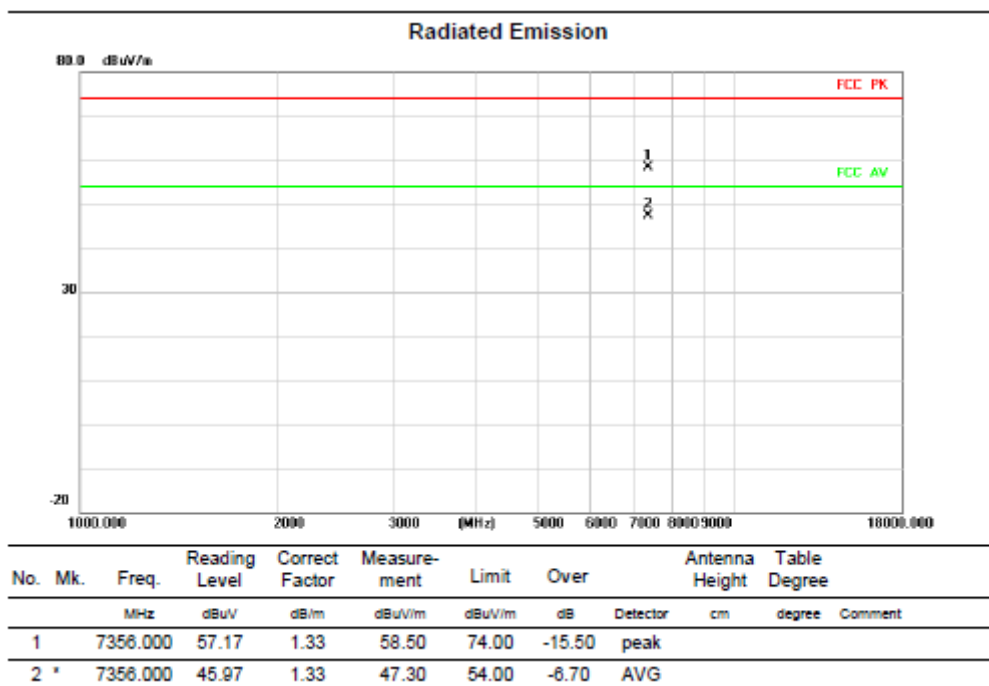


Above 1GHz (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:9

VERTICAL

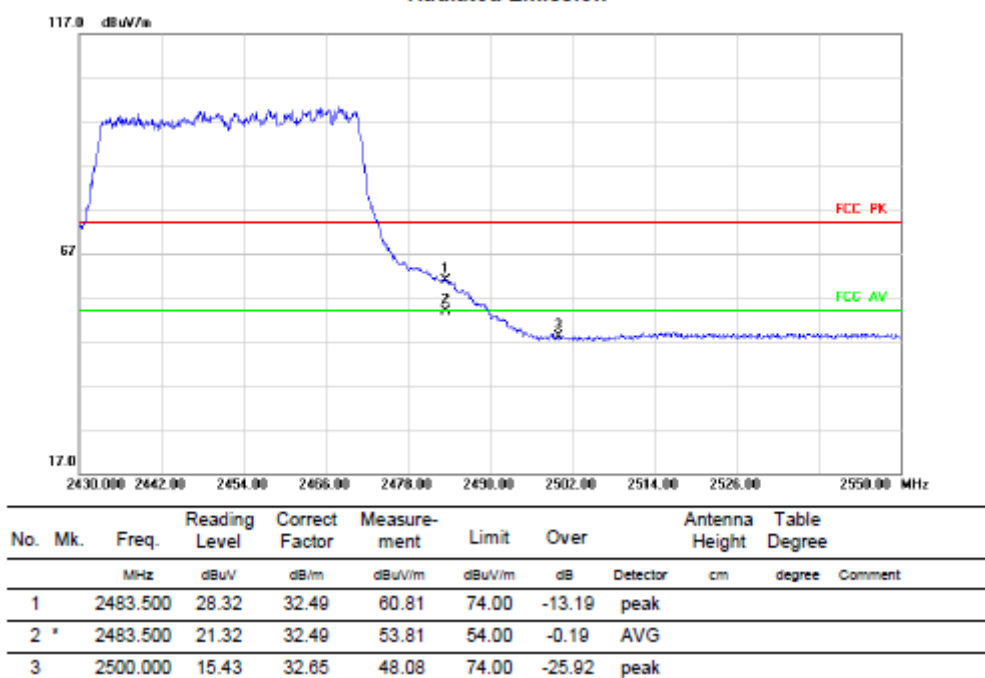


HORIZONTAL

Radiated Emission



Radiated Emission

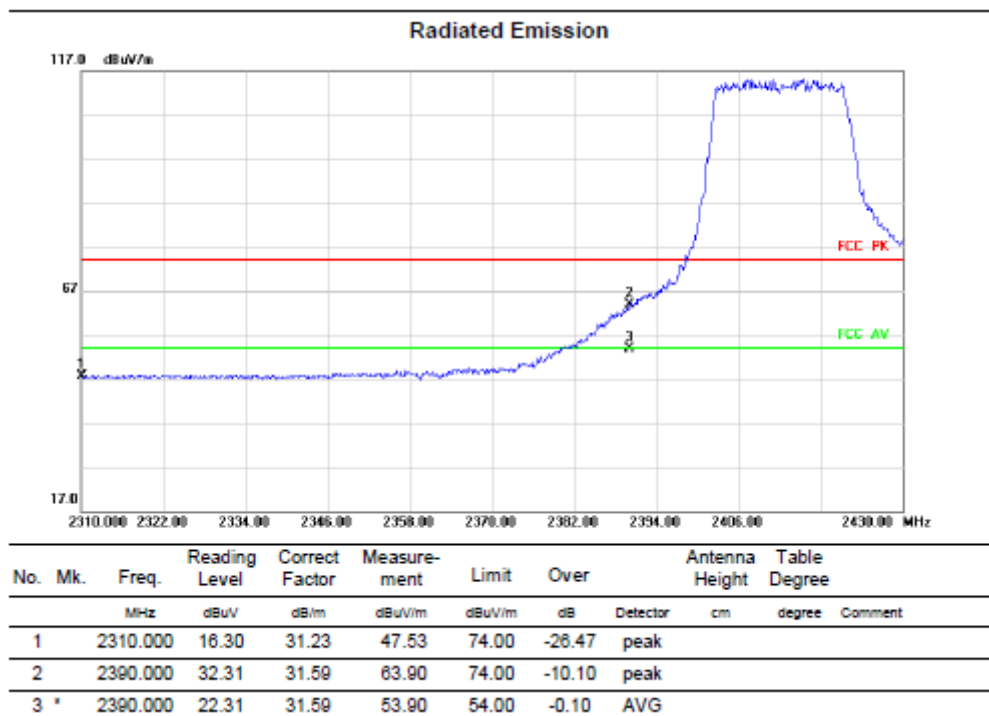
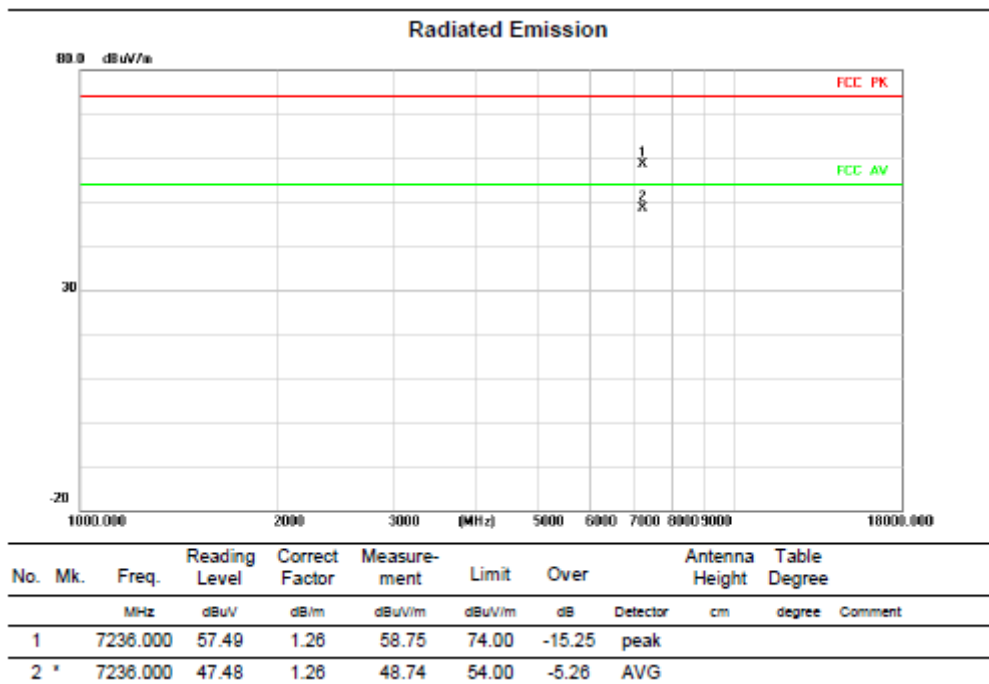


Above 1GHz (1GHz~18GHz)

Test mode: 11BE20MIMO

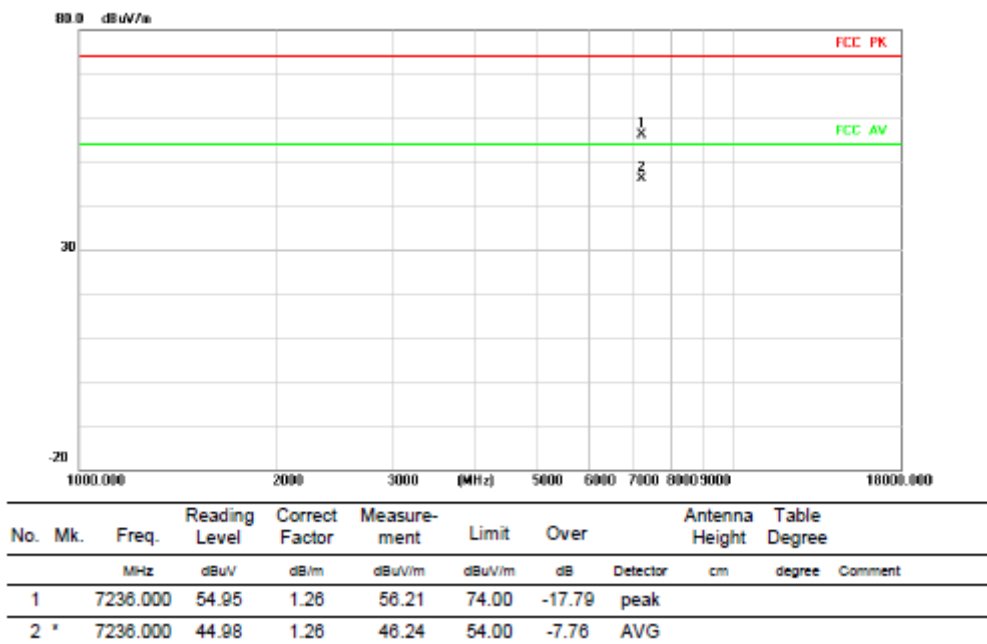
Test Channel:1

VERTICAL

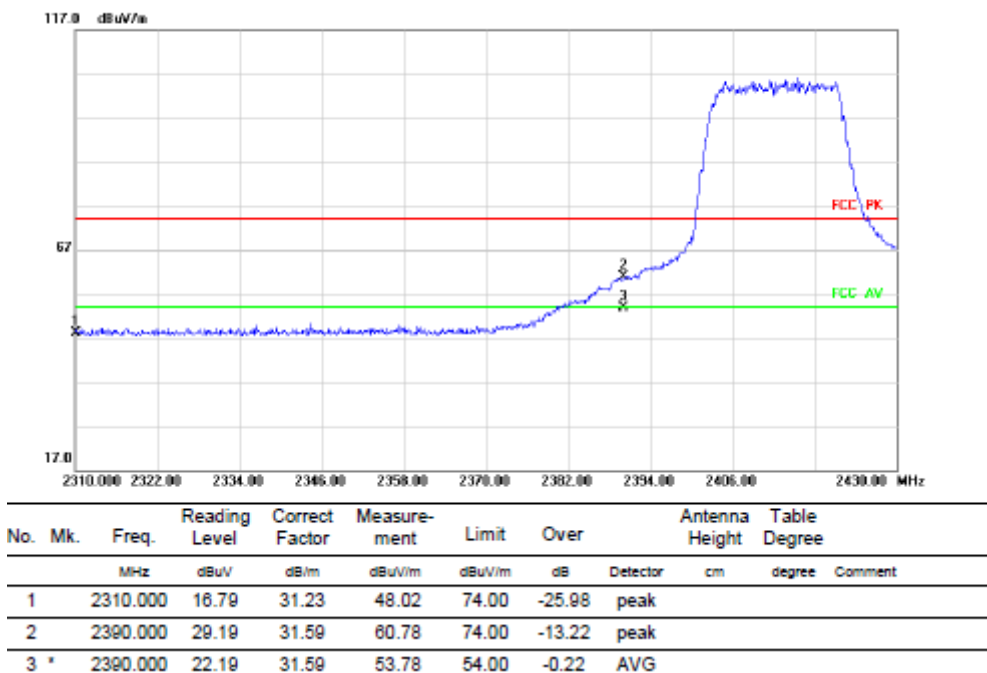


HORIZONTALA

Radiated Emission



Radiated Emission

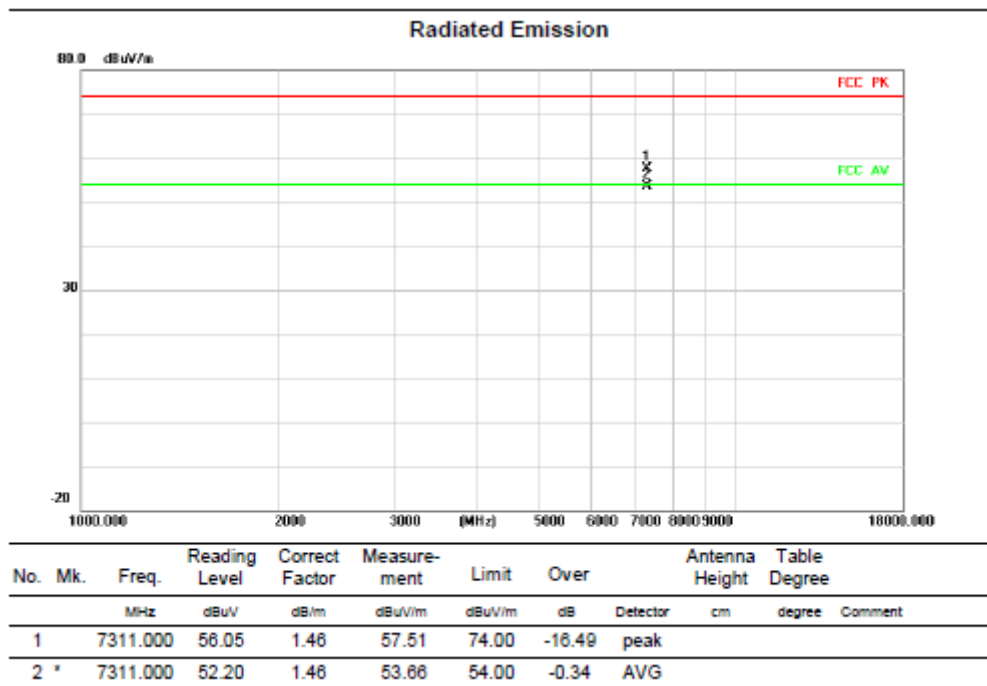


Above 1GHz (1GHz~18GHz)

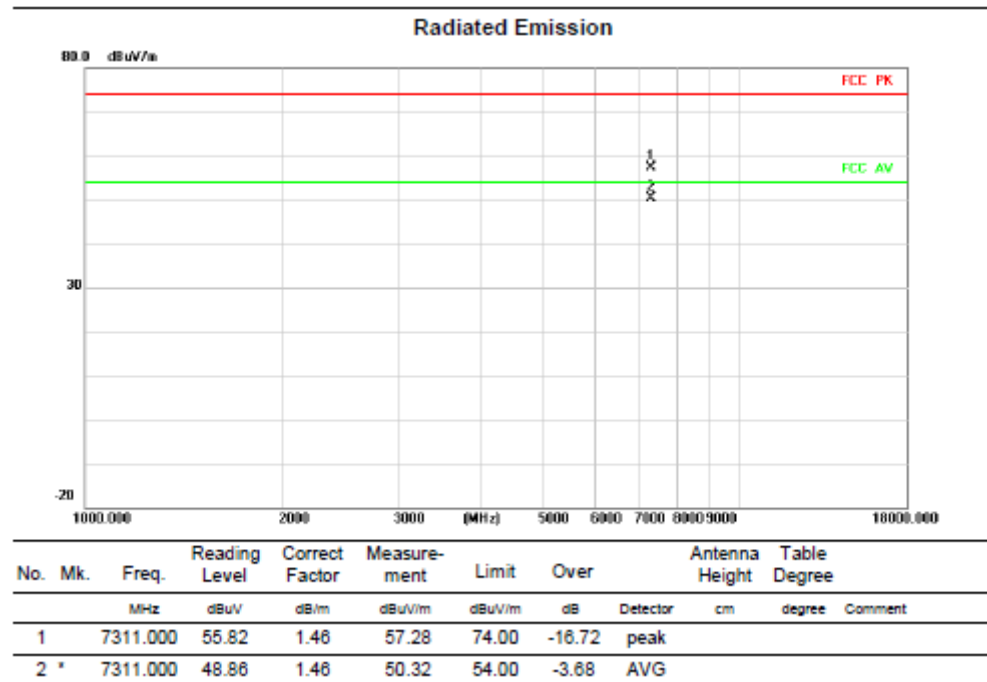
Test mode:11BE20MIMO

Test Channel:6

VERTICAL



HORIZONTAL

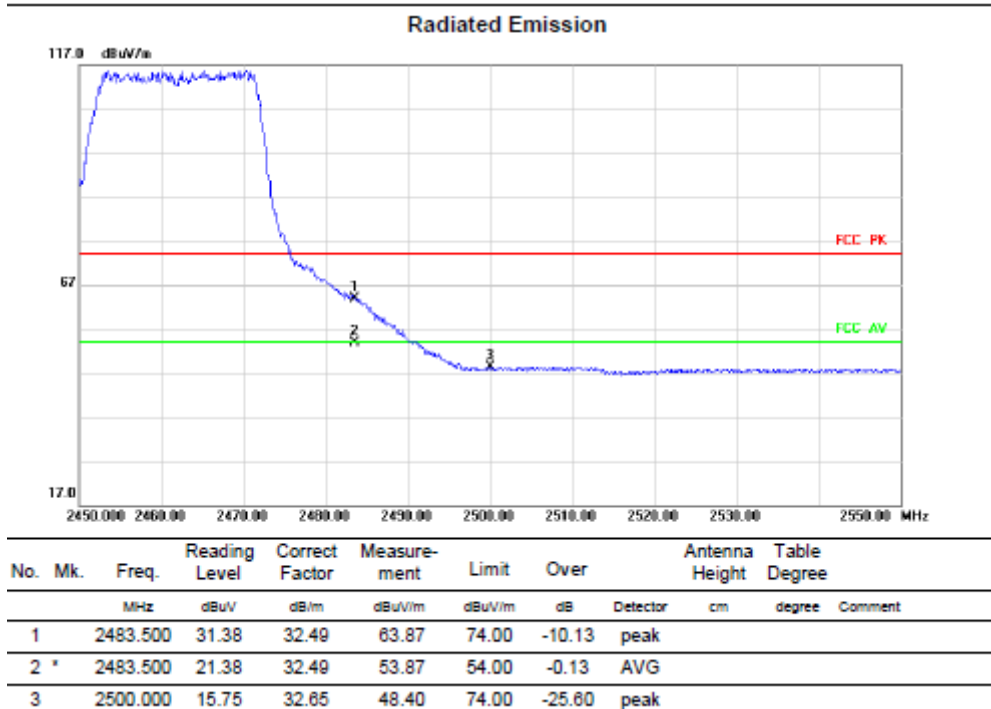
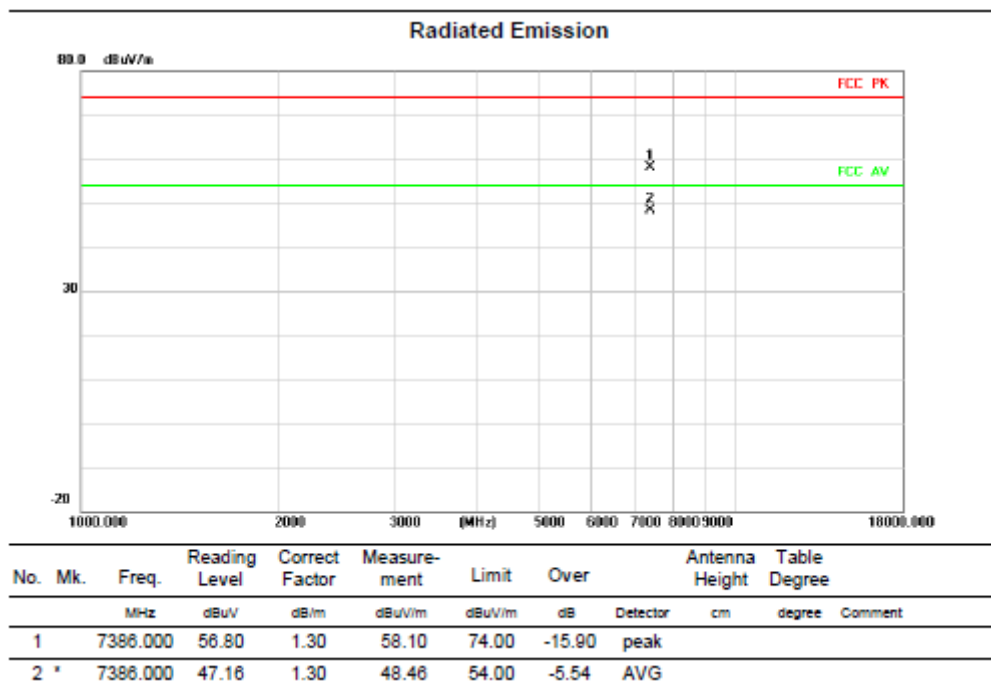


Above 1GHz (1GHz~18GHz)

Test mode: 11BE20MIMO

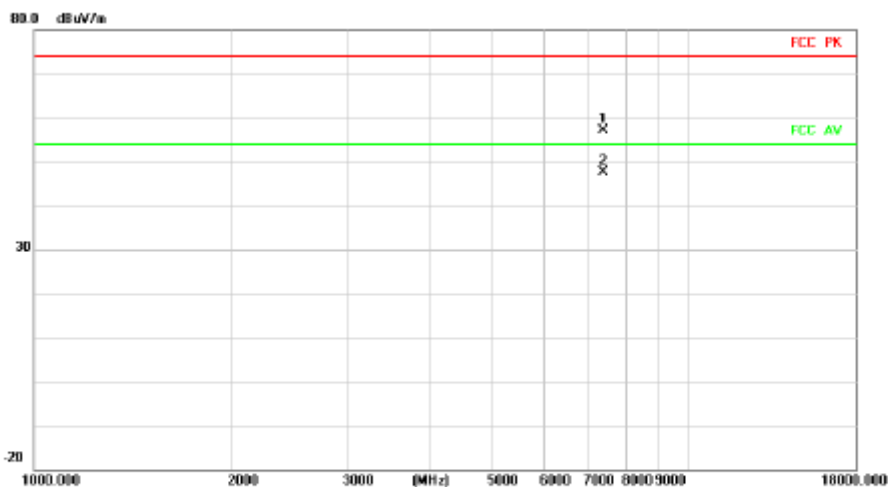
Test Channel:11

VERTICAL



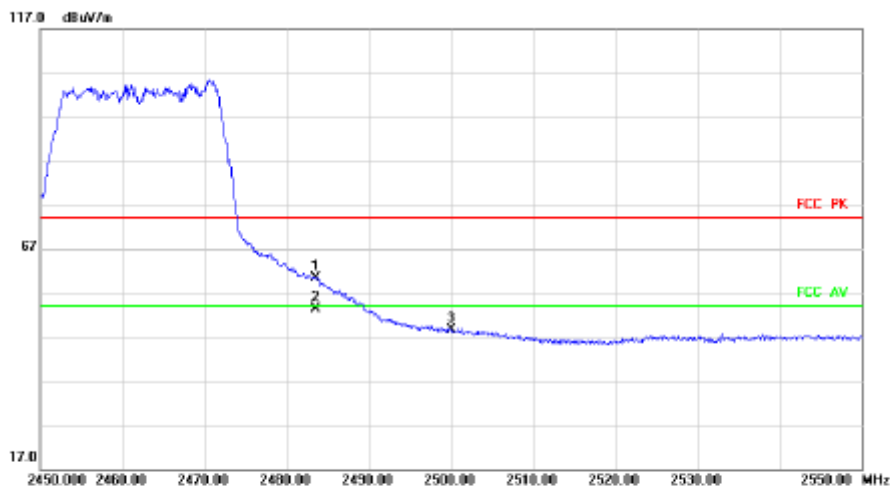
HORIZONTAL

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		7386.000	55.74	1.30	57.04	74.00	-16.96	peak	
2 *		7386.000	46.37	1.30	47.67	54.00	-6.33	AVG	

Radiated Emission



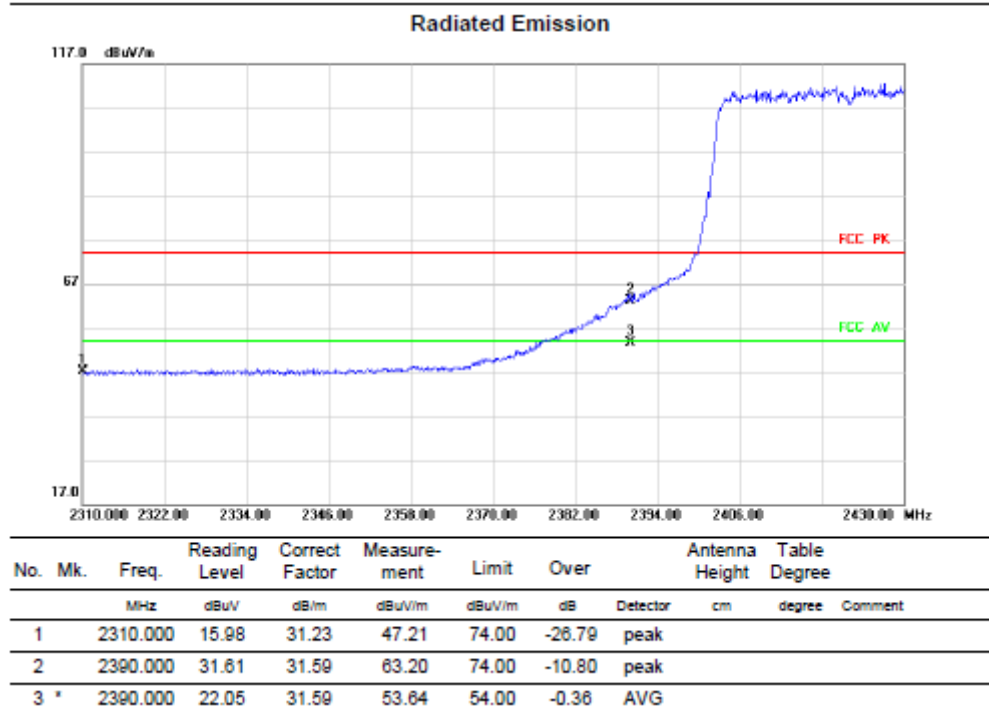
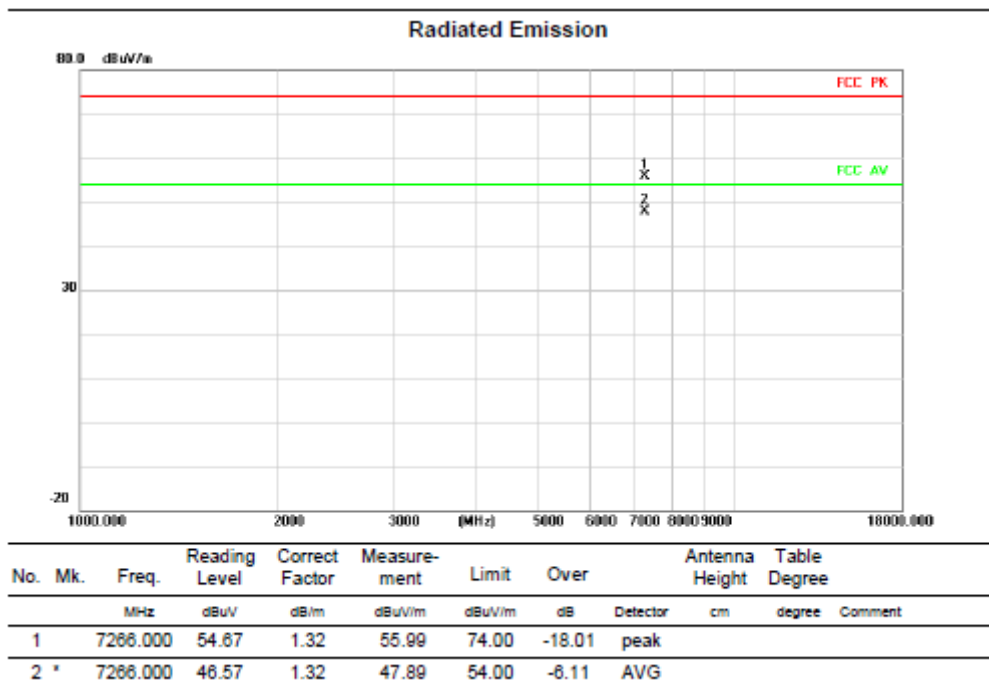
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	27.89	32.49	60.38	74.00	-13.62	peak	
2 *		2483.500	20.89	32.49	53.38	54.00	-0.62	AVG	
3		2500.000	15.95	32.65	48.60	74.00	-25.40	peak	

Above 1GHz (1GHz~18GHz)

Test mode: 11BE40MIMO

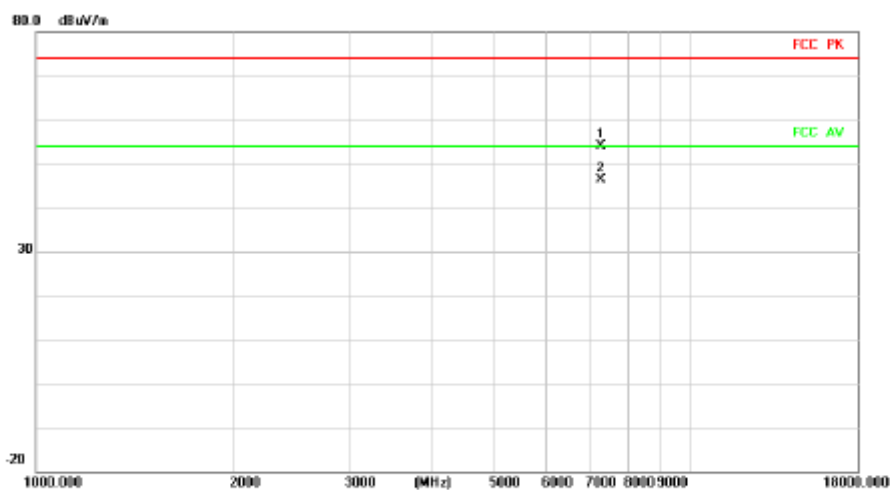
Test Channel:3

VERTICAL



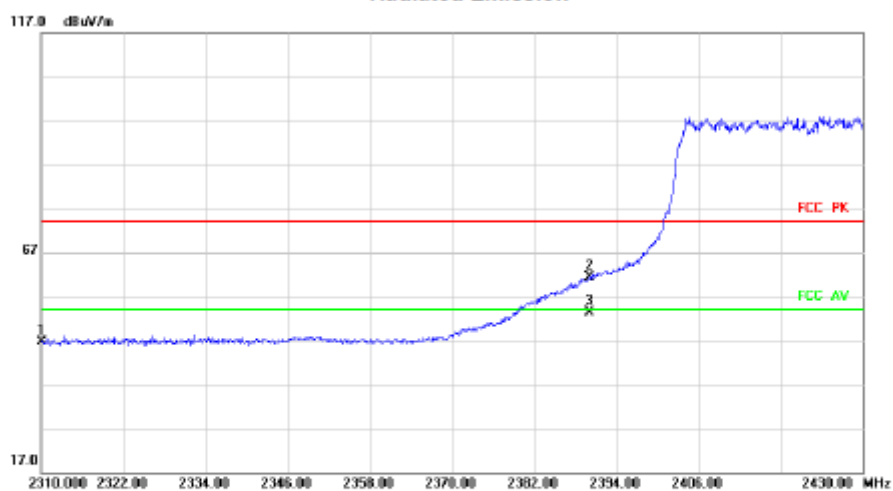
HORIZONTAL

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		7266.000	52.82	1.32	54.14	74.00	-19.86	peak		
2 *		7266.000	44.95	1.32	46.27	54.00	-7.73	AVG		

Radiated Emission



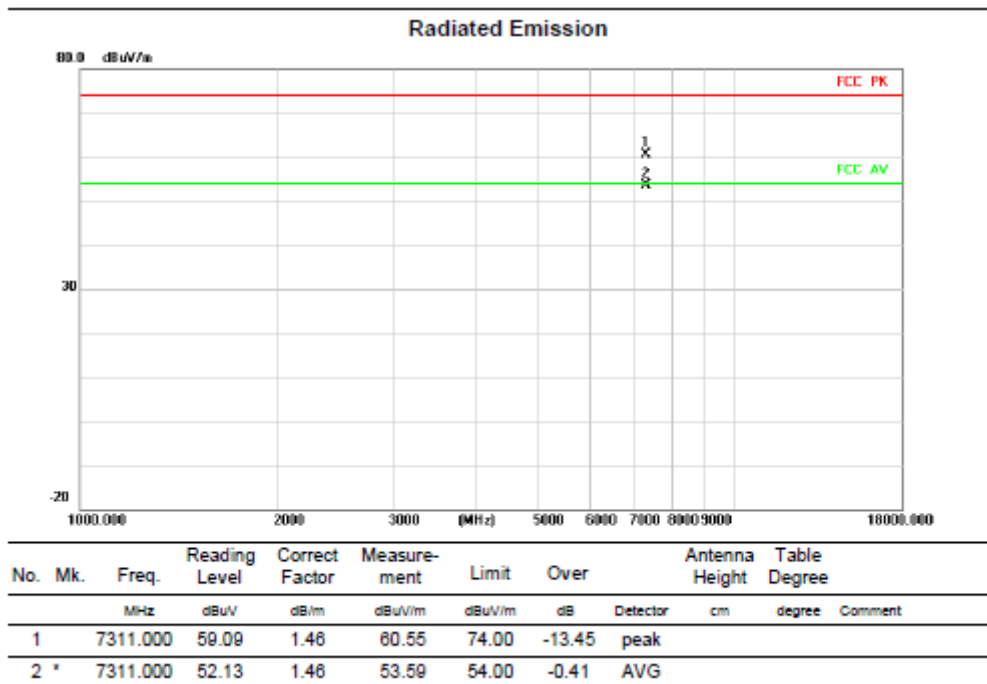
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	15.46	31.23	46.69	74.00	-27.31	peak		
2		2390.000	29.77	31.59	61.36	74.00	-12.64	peak		
3 *		2390.000	21.77	31.59	53.36	54.00	-0.64	AVG		

Above 1GHz (1GHz~18GHz)

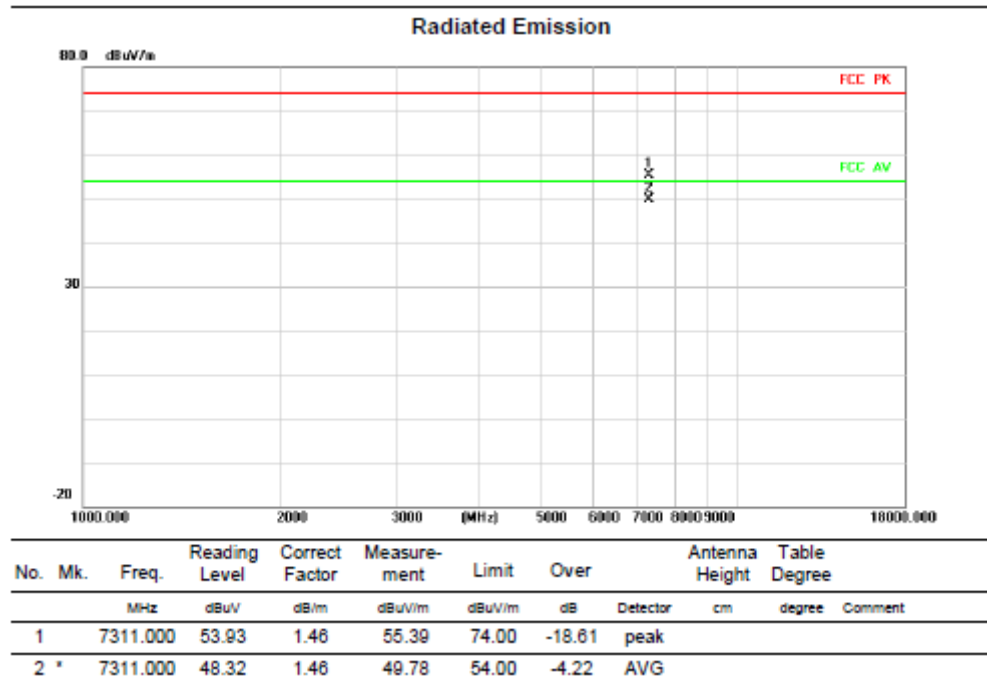
Test mode:11BE40MIMO

Test Channel:6

VERTICAL



HORIZONTAL

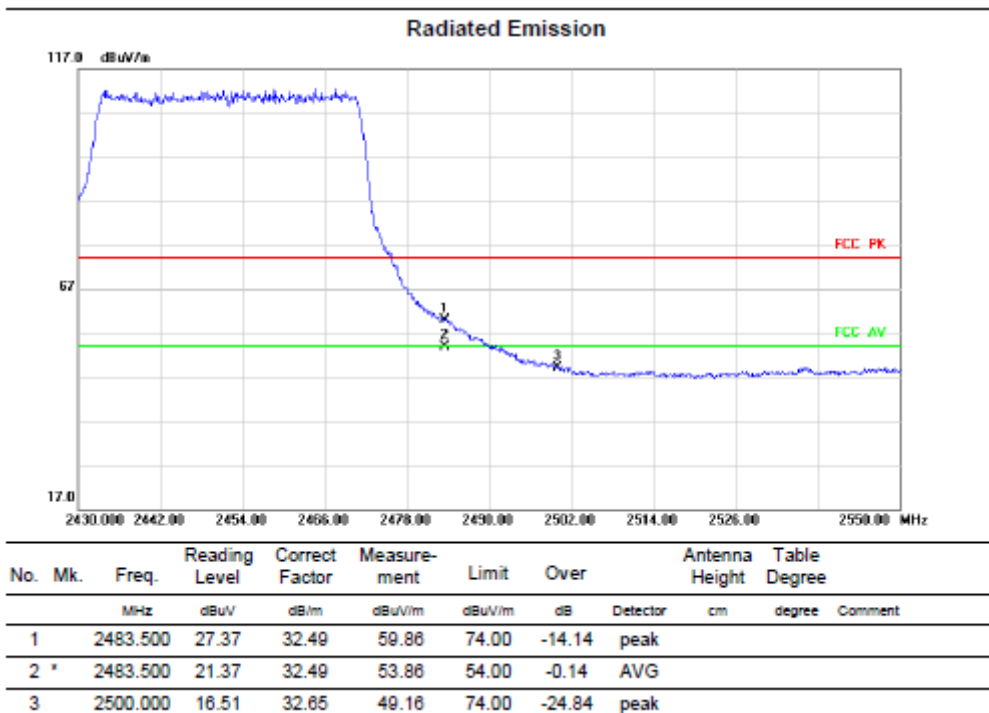
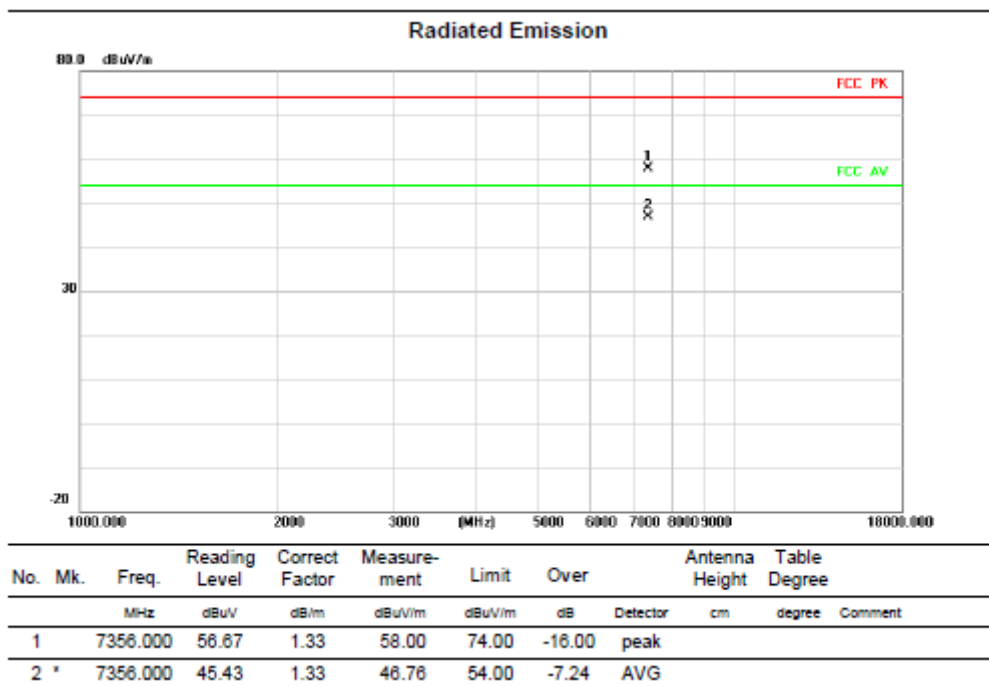


Above 1GHz (1GHz~18GHz)

Test mode: 11BE40MIMO

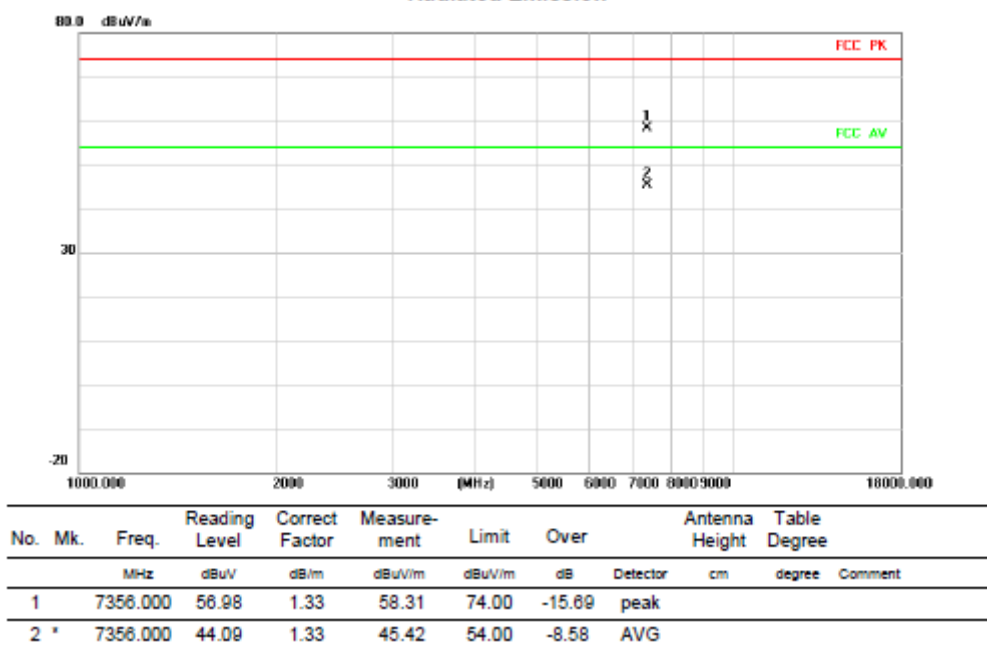
Test Channel:9

VERTICAL

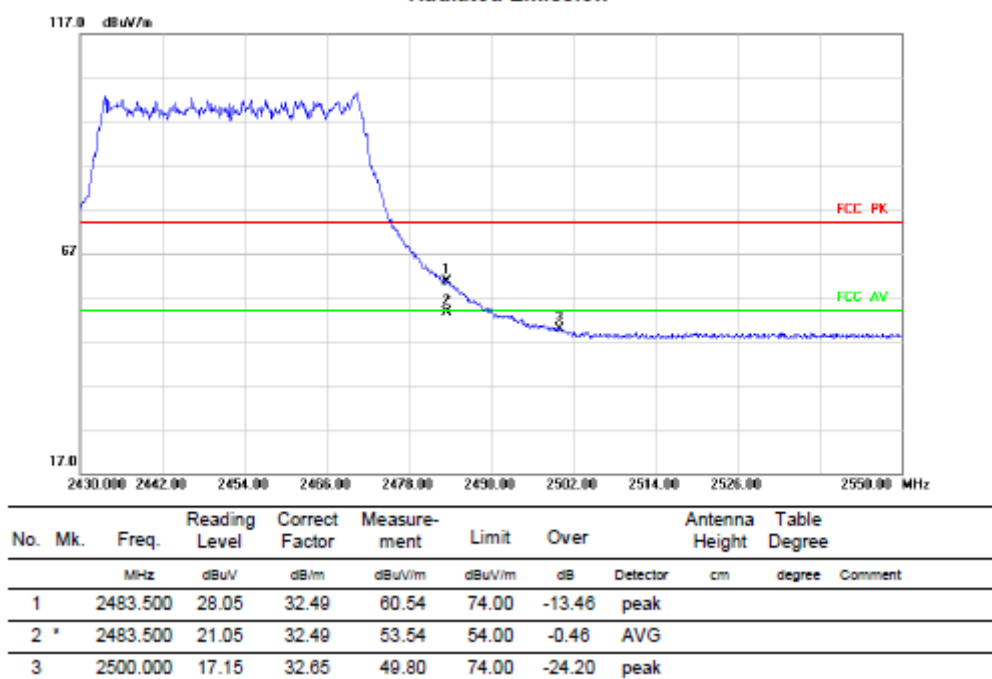


HORIZONTAL

Radiated Emission



Radiated Emission



The high frequency, which started from 18GHz to 26.5GHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

3.3 Spurious Emission at Antenna Port

3.3.1 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 Output Power limits. If the transmitter complies with the Output 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 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

3.3.2 Test Procedure

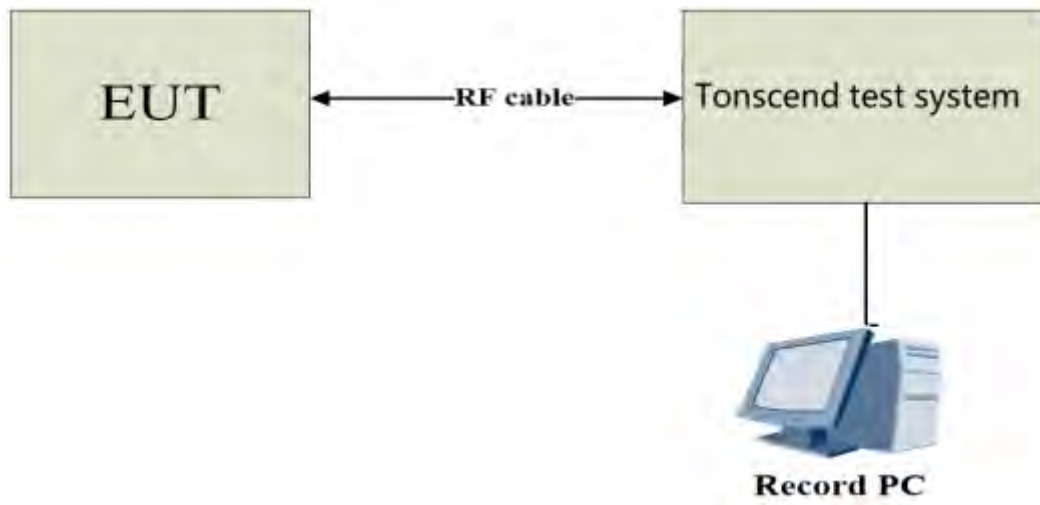
Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) Spectrum Setting as below:

Centre Frequency	The centre frequency of the channel under test
Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.3.3 Test Setup



3.3.4 The Result

Conducted Spurious Emission

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	9.43	9.43	---	PASS
11B	Ant2	2412	0~Reference	8.98	8.98	---	PASS
11B	Ant1	2412	30~1000	9.43	-63.07	≤-20.57	PASS
11B	Ant2	2412	30~1000	8.98	-63.61	≤-21.02	PASS
11B	Ant1	2412	1000~26500	9.43	-33.9	≤-20.57	PASS
11B	Ant2	2412	1000~26500	8.98	-33.47	≤-21.02	PASS
11B	Ant1	2437	0~Reference	14.08	14.08	---	PASS
11B	Ant2	2437	0~Reference	13.26	13.26	---	PASS
11B	Ant1	2437	30~1000	14.08	-62.7	≤-15.92	PASS
11B	Ant2	2437	30~1000	13.26	-62.19	≤-16.74	PASS
11B	Ant1	2437	1000~26500	14.08	-33.69	≤-15.92	PASS
11B	Ant2	2437	1000~26500	13.26	-32.98	≤-16.74	PASS
11B	Ant1	2462	0~Reference	11.34	11.34	---	PASS
11B	Ant2	2462	0~Reference	11.62	11.62	---	PASS
11B	Ant1	2462	30~1000	11.34	-63.42	≤-18.66	PASS
11B	Ant2	2462	30~1000	11.62	-62.9	≤-18.38	PASS
11B	Ant1	2462	1000~26500	11.34	-34.29	≤-18.66	PASS
11B	Ant2	2462	1000~26500	11.62	-33.78	≤-18.38	PASS
11G	Ant1	2412	0~Reference	-0.62	-0.62	---	PASS
11G	Ant2	2412	0~Reference	1.77	1.77	---	PASS
11G	Ant1	2412	30~1000	-0.62	-63.44	≤-30.62	PASS
11G	Ant2	2412	30~1000	1.77	-63.06	≤-28.23	PASS
11G	Ant1	2412	1000~26500	-0.62	-33.32	≤-30.62	PASS
11G	Ant2	2412	1000~26500	1.77	-34.25	≤-28.23	PASS
11G	Ant1	2437	0~Reference	9.65	9.65	---	PASS
11G	Ant2	2437	0~Reference	13.39	13.39	---	PASS
11G	Ant1	2437	30~1000	9.65	-63	≤-20.35	PASS
11G	Ant2	2437	30~1000	13.39	-63.39	≤-16.61	PASS
11G	Ant1	2437	1000~26500	9.65	-33.97	≤-20.35	PASS
11G	Ant2	2437	1000~26500	13.39	-34.09	≤-16.61	PASS
11G	Ant1	2462	0~Reference	-0.47	-0.47	---	PASS
11G	Ant2	2462	0~Reference	2.00	2.00	---	PASS
11G	Ant1	2462	30~1000	-0.47	-63.35	≤-30.47	PASS
11G	Ant2	2462	30~1000	2.00	-63.03	≤-28	PASS
11G	Ant1	2462	1000~26500	-0.47	-33.81	≤-30.47	PASS
11G	Ant2	2462	1000~26500	2.00	-33.68	≤-28	PASS

11N20MIMO	Ant1	2412	0~Reference	-0.73	-0.73	---	PASS
11N20MIMO	Ant2	2412	0~Reference	-1.46	-1.46	---	PASS
11N20MIMO	Ant1	2412	30~1000	-0.73	-63.99	≤-30.73	PASS
11N20MIMO	Ant2	2412	30~1000	-1.46	-64.03	≤-31.46	PASS
11N20MIMO	Ant1	2412	1000~26500	-0.73	-33.26	≤-30.73	PASS
11N20MIMO	Ant2	2412	1000~26500	-1.46	-33.72	≤-31.46	PASS
11N20MIMO	Ant1	2437	0~Reference	10.09	10.09	---	PASS
11N20MIMO	Ant2	2437	0~Reference	11.24	11.24	---	PASS
11N20MIMO	Ant1	2437	30~1000	10.09	-63.58	≤-19.91	PASS
11N20MIMO	Ant2	2437	30~1000	11.24	-63.72	≤-18.76	PASS
11N20MIMO	Ant1	2437	1000~26500	10.09	-33.56	≤-19.91	PASS
11N20MIMO	Ant2	2437	1000~26500	11.24	-33.71	≤-18.76	PASS
11N20MIMO	Ant1	2462	0~Reference	-3.41	-3.41	---	PASS
11N20MIMO	Ant2	2462	0~Reference	-2.36	-2.36	---	PASS
11N20MIMO	Ant1	2462	30~1000	-3.41	-63.98	≤-33.41	PASS
11N20MIMO	Ant2	2462	30~1000	-2.36	-62.47	≤-32.36	PASS
11N20MIMO	Ant1	2462	1000~26500	-3.41	-33.44	≤-33.41	PASS
11N20MIMO	Ant2	2462	1000~26500	-2.36	-33.83	≤-32.36	PASS
11N40MIMO	Ant1	2422	0~Reference	-0.63	-0.63	---	PASS
11N40MIMO	Ant2	2422	0~Reference	-0.55	-0.55	---	PASS
11N40MIMO	Ant1	2422	30~1000	-0.63	-62.27	≤-30.63	PASS
11N40MIMO	Ant2	2422	30~1000	-0.55	-63.58	≤-30.55	PASS
11N40MIMO	Ant1	2422	1000~26500	-0.63	-34.05	≤-30.63	PASS
11N40MIMO	Ant2	2422	1000~26500	-0.55	-34.14	≤-30.55	PASS
11N40MIMO	Ant1	2437	0~Reference	7.23	7.23	---	PASS
11N40MIMO	Ant2	2437	0~Reference	7.26	7.26	---	PASS
11N40MIMO	Ant1	2437	30~1000	7.23	-63.02	≤-22.77	PASS
11N40MIMO	Ant2	2437	30~1000	7.26	-63.27	≤-22.74	PASS
11N40MIMO	Ant1	2437	1000~26500	7.23	-32.66	≤-22.77	PASS
11N40MIMO	Ant2	2437	1000~26500	7.26	-33.92	≤-22.74	PASS
11N40MIMO	Ant1	2452	0~Reference	0.82	0.82	---	PASS
11N40MIMO	Ant2	2452	0~Reference	-2.24	-2.24	---	PASS
11N40MIMO	Ant1	2452	30~1000	0.82	-58.82	≤-29.18	PASS
11N40MIMO	Ant2	2452	30~1000	-2.24	-63.31	≤-32.24	PASS
11N40MIMO	Ant1	2452	1000~26500	0.82	-33.65	≤-29.18	PASS
11N40MIMO	Ant2	2452	1000~26500	-2.24	-34.34	≤-32.24	PASS
11AX20MIMO	Ant1	2412	0~Reference	1.29	1.29	---	PASS
11AX20MIMO	Ant2	2412	0~Reference	1.12	1.12	---	PASS
11AX20MIMO	Ant1	2412	30~1000	1.29	-63.63	≤-28.71	PASS
11AX20MIMO	Ant2	2412	30~1000	1.12	-63.49	≤-28.88	PASS
11AX20MIMO	Ant1	2412	1000~26500	1.29	-33.71	≤-28.71	PASS
11AX20MIMO	Ant2	2412	1000~26500	1.12	-34.22	≤-28.88	PASS

11AX20MIMO	Ant1	2437	0~Reference	13.98	13.98	---	PASS
11AX20MIMO	Ant2	2437	0~Reference	9.89	9.89	---	PASS
11AX20MIMO	Ant1	2437	30~1000	13.98	-63.7	≤-16.02	PASS
11AX20MIMO	Ant2	2437	30~1000	9.89	-63.13	≤-20.11	PASS
11AX20MIMO	Ant1	2437	1000~26500	13.98	-33.23	≤-16.02	PASS
11AX20MIMO	Ant2	2437	1000~26500	9.89	-33.94	≤-20.11	PASS
11AX20MIMO	Ant1	2462	0~Reference	-0.89	-0.89	---	PASS
11AX20MIMO	Ant2	2462	0~Reference	-0.09	-0.09	---	PASS
11AX20MIMO	Ant1	2462	30~1000	-0.89	-58.1	≤-30.89	PASS
11AX20MIMO	Ant2	2462	30~1000	-0.09	-63.3	≤-30.09	PASS
11AX20MIMO	Ant1	2462	1000~26500	-0.89	-33.98	≤-30.89	PASS
11AX20MIMO	Ant2	2462	1000~26500	-0.09	-33.58	≤-30.09	PASS
11AX40MIMO	Ant1	2422	0~Reference	-1.26	-1.26	---	PASS
11AX40MIMO	Ant2	2422	0~Reference	-1.32	-1.32	---	PASS
11AX40MIMO	Ant1	2422	30~1000	-1.26	-63.85	≤-31.26	PASS
11AX40MIMO	Ant2	2422	30~1000	-1.32	-63.69	≤-31.32	PASS
11AX40MIMO	Ant1	2422	1000~26500	-1.26	-33.28	≤-31.26	PASS
11AX40MIMO	Ant2	2422	1000~26500	-1.32	-34.17	≤-31.32	PASS
11AX40MIMO	Ant1	2437	0~Reference	6.53	6.53	---	PASS
11AX40MIMO	Ant2	2437	0~Reference	8.47	8.47	---	PASS
11AX40MIMO	Ant1	2437	30~1000	6.53	-62.54	≤-23.47	PASS
11AX40MIMO	Ant2	2437	30~1000	8.47	-62.76	≤-21.53	PASS
11AX40MIMO	Ant1	2437	1000~26500	6.53	-33.05	≤-23.47	PASS
11AX40MIMO	Ant2	2437	1000~26500	8.47	-33.24	≤-21.53	PASS
11AX40MIMO	Ant1	2452	0~Reference	0.15	0.15	---	PASS
11AX40MIMO	Ant2	2452	0~Reference	0.03	0.03	---	PASS
11AX40MIMO	Ant1	2452	30~1000	0.15	-61.92	≤-29.85	PASS
11AX40MIMO	Ant2	2452	30~1000	0.03	-62.86	≤-29.97	PASS
11AX40MIMO	Ant1	2452	1000~26500	0.15	-33.68	≤-29.85	PASS
11AX40MIMO	Ant2	2452	1000~26500	0.03	-33.95	≤-29.97	PASS
11BE20MIMO	Ant1	2412	0~Reference	2.93	2.93	---	PASS
11BE20MIMO	Ant2	2412	0~Reference	-0.31	-0.31	---	PASS
11BE20MIMO	Ant1	2412	30~1000	2.93	-64.04	≤-27.07	PASS
11BE20MIMO	Ant2	2412	30~1000	-0.31	-63.95	≤-30.31	PASS
11BE20MIMO	Ant1	2412	1000~26500	2.93	-32.13	≤-27.07	PASS
11BE20MIMO	Ant2	2412	1000~26500	-0.31	-32.61	≤-30.31	PASS
11BE20MIMO	Ant1	2437	0~Reference	13.25	13.25	---	PASS
11BE20MIMO	Ant2	2437	0~Reference	9.75	9.75	---	PASS
11BE20MIMO	Ant1	2437	30~1000	13.25	-63.45	≤-16.75	PASS
11BE20MIMO	Ant2	2437	30~1000	9.75	-63.07	≤-20.25	PASS
11BE20MIMO	Ant1	2437	1000~26500	13.25	-33.29	≤-16.75	PASS
11BE20MIMO	Ant2	2437	1000~26500	9.75	-34.31	≤-20.25	PASS

11BE20MIMO	Ant1	2462	0~Reference	0.20	0.20	---	PASS
11BE20MIMO	Ant2	2462	0~Reference	1.37	1.37	---	PASS
11BE20MIMO	Ant1	2462	30~1000	0.20	-63.93	≤-29.8	PASS
11BE20MIMO	Ant2	2462	30~1000	1.37	-62.15	≤-28.63	PASS
11BE20MIMO	Ant1	2462	1000~26500	0.20	-33.57	≤-29.8	PASS
11BE20MIMO	Ant2	2462	1000~26500	1.37	-33.84	≤-28.63	PASS
11BE40MIMO	Ant1	2422	0~Reference	0.00	0.00	---	PASS
11BE40MIMO	Ant2	2422	0~Reference	-0.54	-0.54	---	PASS
11BE40MIMO	Ant1	2422	30~1000	0.00	-63.86	≤-30	PASS
11BE40MIMO	Ant2	2422	30~1000	-0.54	-62.54	≤-30.54	PASS
11BE40MIMO	Ant1	2422	1000~26500	0.00	-32.79	≤-30	PASS
11BE40MIMO	Ant2	2422	1000~26500	-0.54	-34.01	≤-30.54	PASS
11BE40MIMO	Ant1	2437	0~Reference	9.18	9.18	---	PASS
11BE40MIMO	Ant2	2437	0~Reference	9.11	9.11	---	PASS
11BE40MIMO	Ant1	2437	30~1000	9.18	-63.92	≤-20.82	PASS
11BE40MIMO	Ant2	2437	30~1000	9.11	-62.6	≤-20.89	PASS
11BE40MIMO	Ant1	2437	1000~26500	9.18	-33.23	≤-20.82	PASS
11BE40MIMO	Ant2	2437	1000~26500	9.11	-34	≤-20.89	PASS
11BE40MIMO	Ant1	2452	0~Reference	-0.84	-0.84	---	PASS
11BE40MIMO	Ant2	2452	0~Reference	-1.11	-1.11	---	PASS
11BE40MIMO	Ant1	2452	30~1000	-0.84	-62.14	≤-30.84	PASS
11BE40MIMO	Ant2	2452	30~1000	-1.11	-63.54	≤-31.11	PASS
11BE40MIMO	Ant1	2452	1000~26500	-0.84	-33.77	≤-30.84	PASS
11BE40MIMO	Ant2	2452	1000~26500	-1.11	-34.03	≤-31.11	PASS

Band edge

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	11.79	-38.95	≤-18.22	PASS
11B	Ant2	Low	2412	10.14	-38.79	≤-19.86	PASS
11B	Ant1	High	2462	12.16	-37.84	≤-17.84	PASS
11B	Ant2	High	2462	11.29	-39.46	≤-18.71	PASS
11G	Ant1	Low	2412	2.57	-37.7	≤-27.43	PASS
11G	Ant2	Low	2412	2.07	-39.63	≤-27.93	PASS
11G	Ant1	High	2462	3.22	-39.36	≤-26.78	PASS
11G	Ant2	High	2462	2.60	-39	≤-27.4	PASS
11N20MIMO	Ant1	Low	2412	-0.29	-39.79	≤-30.29	PASS
11N20MIMO	Ant2	Low	2412	-1.42	-39.57	≤-31.42	PASS
11N20MIMO	Ant1	High	2462	-0.41	-39.77	≤-30.41	PASS
11N20MIMO	Ant2	High	2462	-2.57	-39.72	≤-32.57	PASS
11N40MIMO	Ant1	Low	2422	1.27	-35.98	≤-28.73	PASS
11N40MIMO	Ant2	Low	2422	0.04	-36.03	≤-29.96	PASS

11N40MIMO	Ant1	High	2452	1.16	-39.34	≤-28.84	PASS
11N40MIMO	Ant2	High	2452	0.85	-38.95	≤-29.15	PASS
11AX20MIMO	Ant1	Low	2412	3.37	-36.58	≤-26.63	PASS
11AX20MIMO	Ant2	Low	2412	2.49	-38.78	≤-27.51	PASS
11AX20MIMO	Ant1	High	2462	4.32	-39	≤-25.68	PASS
11AX20MIMO	Ant2	High	2462	3.43	-39.3	≤-26.57	PASS
11AX40MIMO	Ant1	Low	2422	-0.84	-34.67	≤-30.84	PASS
11AX40MIMO	Ant2	Low	2422	-0.86	-34.98	≤-30.86	PASS
11AX40MIMO	Ant1	High	2452	0.30	-39.77	≤-29.7	PASS
11AX40MIMO	Ant2	High	2452	-0.20	-39.33	≤-30.2	PASS
11BE20MIMO	Ant1	Low	2412	3.66	-37.06	≤-26.34	PASS
11BE20MIMO	Ant2	Low	2412	3.81	-36.41	≤-26.19	PASS
11BE20MIMO	Ant1	High	2462	4.42	-38.77	≤-25.58	PASS
11BE20MIMO	Ant2	High	2462	4.14	-39.54	≤-25.86	PASS
11BE40MIMO	Ant1	Low	2422	0.39	-35.6	≤-29.61	PASS
11BE40MIMO	Ant2	Low	2422	-0.19	-36.02	≤-30.19	PASS
11BE40MIMO	Ant1	High	2452	0.10	-39.47	≤-29.9	PASS
11BE40MIMO	Ant2	High	2452	-0.92	-39.55	≤-30.92	PASS

Conducted Spurious Emission



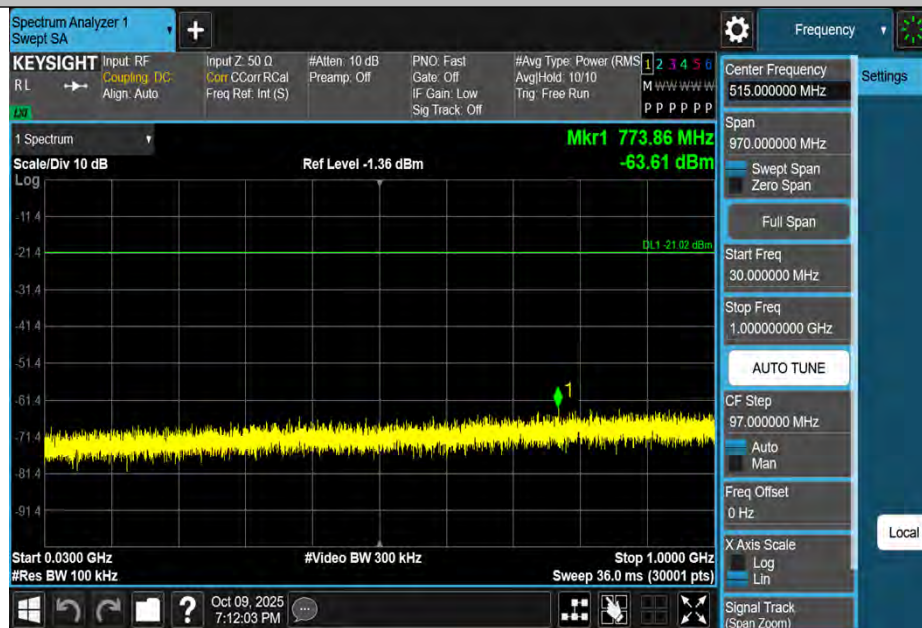
11B-Ant1-2412-0-Reference-PASS



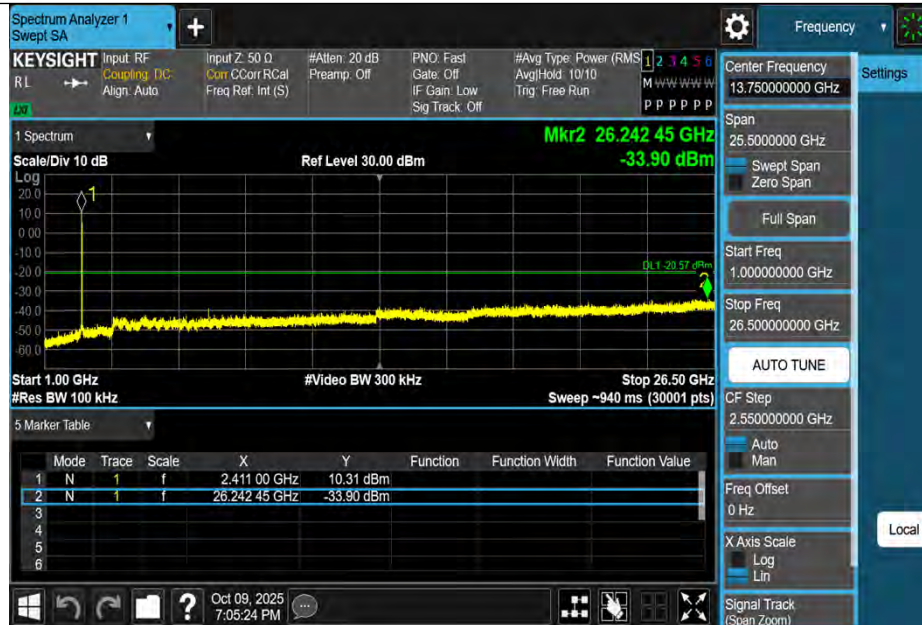
11B-Ant2-2412-0-Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant2-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS



11B-Ant2-2412-1000~26500-PASS



11B-Ant1-2437-0-Reference-PASS



11B-Ant2-2437-0-Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant2-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS



11B-Ant2-2437-1000~26500-PASS



11B-Ant1-2462-0-Reference-PASS



11B-Ant2-2462-0-Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant2-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS



11B-Ant2-2462-1000~26500-PASS



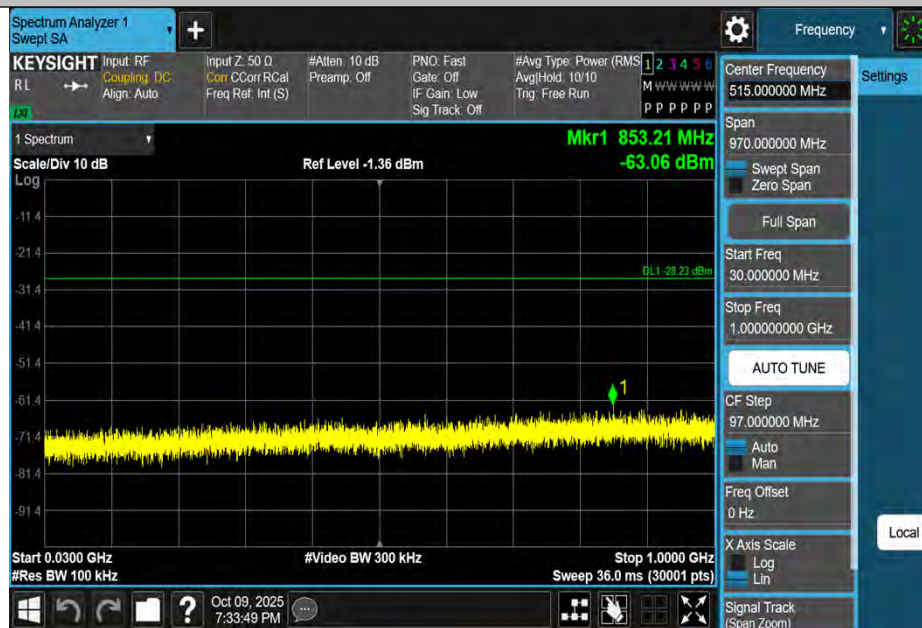
11G-Ant1-2412-0-Reference-PASS



11G-Ant2-2412-0-Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant2-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS



11G-Ant2-2412-1000~26500-PASS



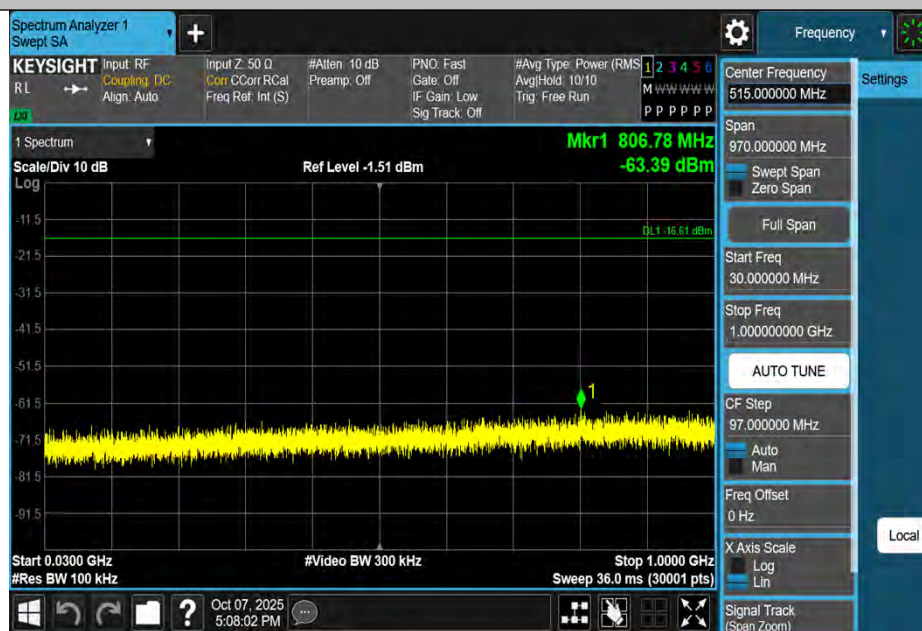
11G-Ant1-2437-0-Reference-PASS



11G-Ant2-2437-0-Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant2-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS



11G-Ant2-2437-1000~26500-PASS



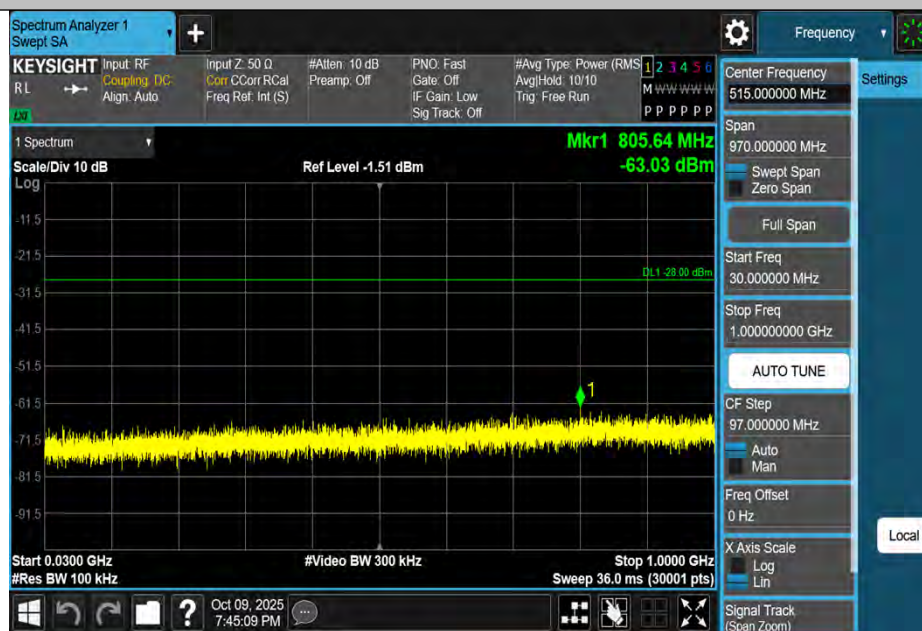
11G-Ant1-2462-0-Reference-PASS



11G-Ant2-2462-0-Reference-PASS



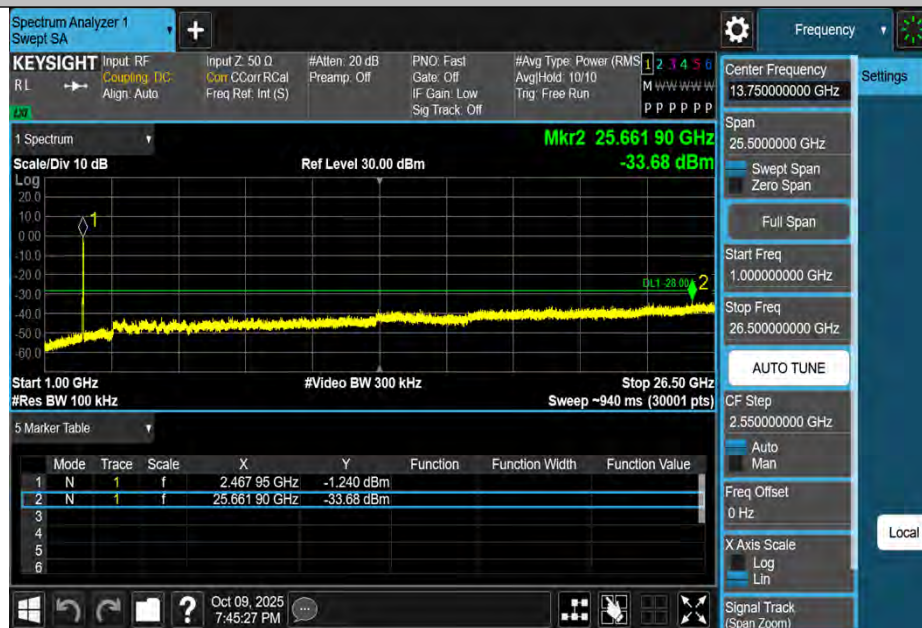
11G-Ant1-2462-30~1000-PASS



11G-Ant2-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS



11G-Ant2-2462-1000~26500-PASS



11N20MIMO-Ant1-2412-0-Reference-PASS



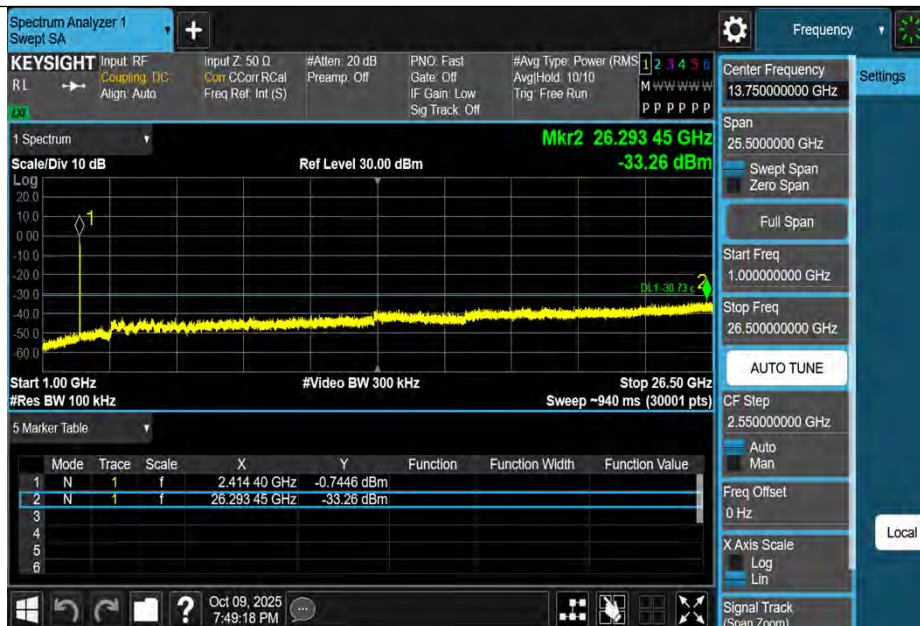
11N20MIMO-Ant2-2412-0-Reference-PASS



11N20MIMO-Ant1-2412-30~1000-PASS



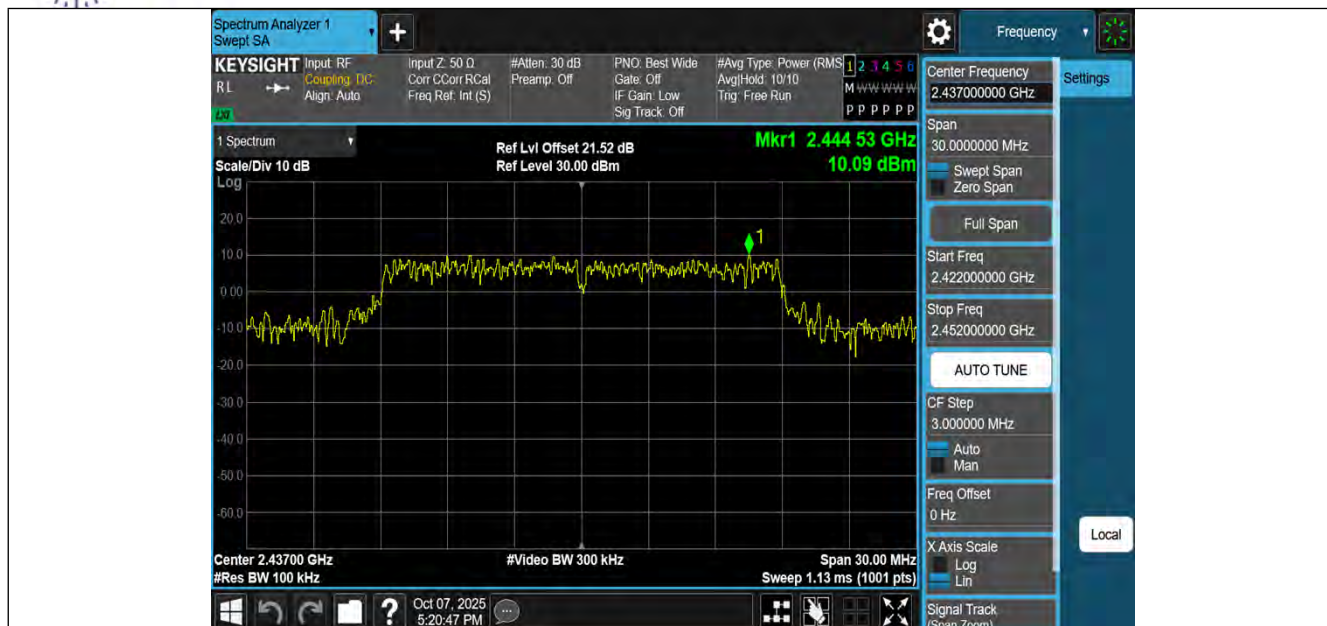
11N20MIMO-Ant2-2412-30~1000-PASS



11N20MIMO-Ant1-2412-1000~26500-PASS



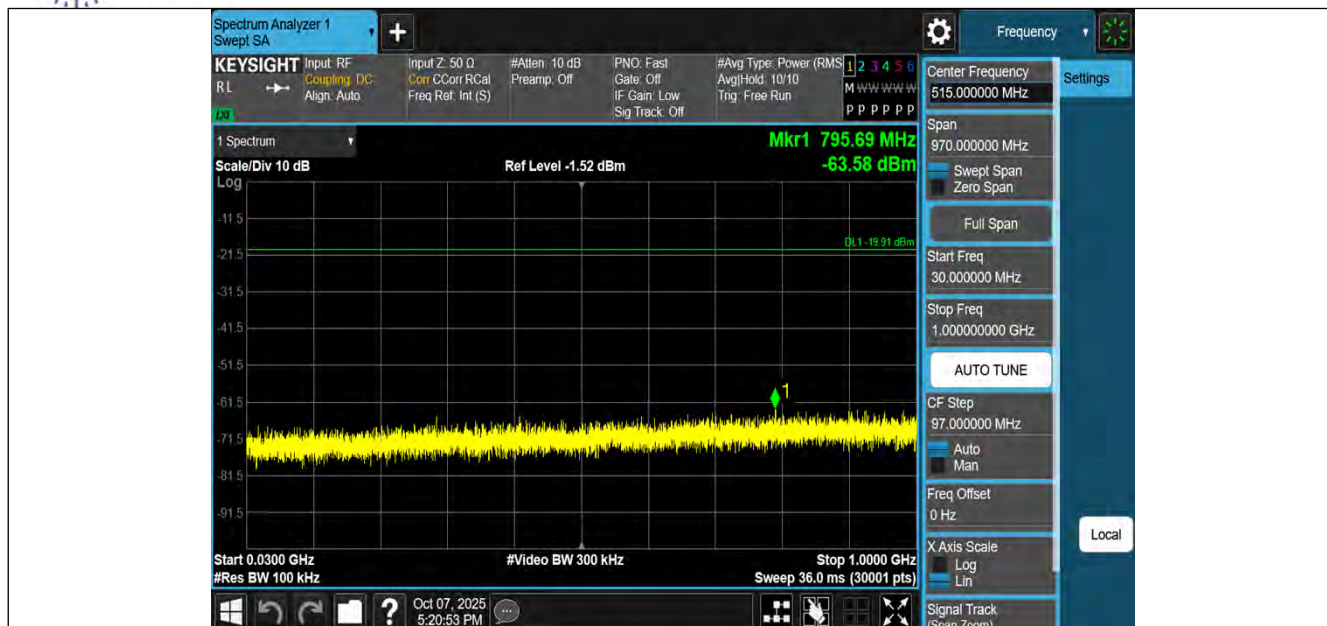
11N20MIMO-Ant2-2412-1000~26500-PASS



11N20MIMO-Ant1-2437-0-Reference-PASS



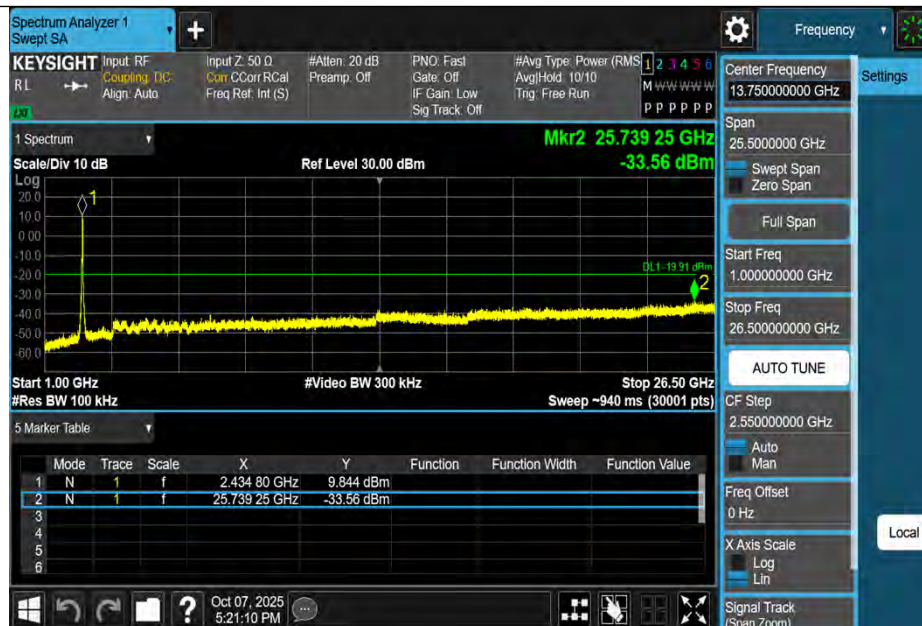
11N20MIMO-Ant2-2437-0-Reference-PASS



11N20MIMO-Ant1-2437-30~1000-PASS



11N20MIMO-Ant2-2437-30~1000-PASS



11N20MIMO-Ant1-2437-1000~26500-PASS



11N20MIMO-Ant2-2437-1000~26500-PASS



11N20MIMO-Ant1-2462-0-Reference-PASS



11N20MIMO-Ant2-2462-0-Reference-PASS



11N20MIMO-Ant1-2462-30~1000-PASS



11N20MIMO-Ant2-2462-30~1000-PASS



11N20MIMO-Ant1-2462-1000~26500-PASS



11N20MIMO-Ant2-2462-1000~26500-PASS



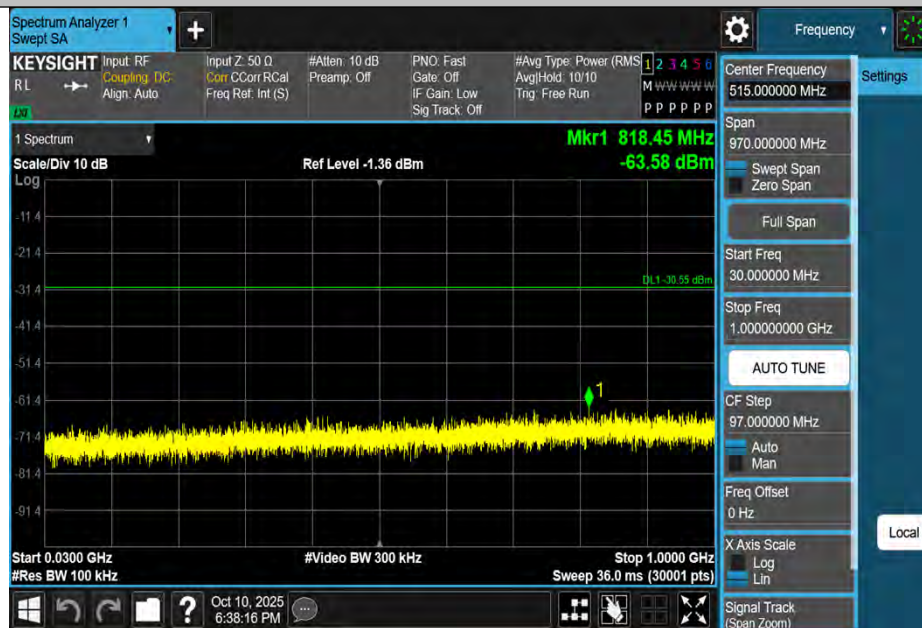
11N40MIMO-Ant1-2422-0-Reference-PASS



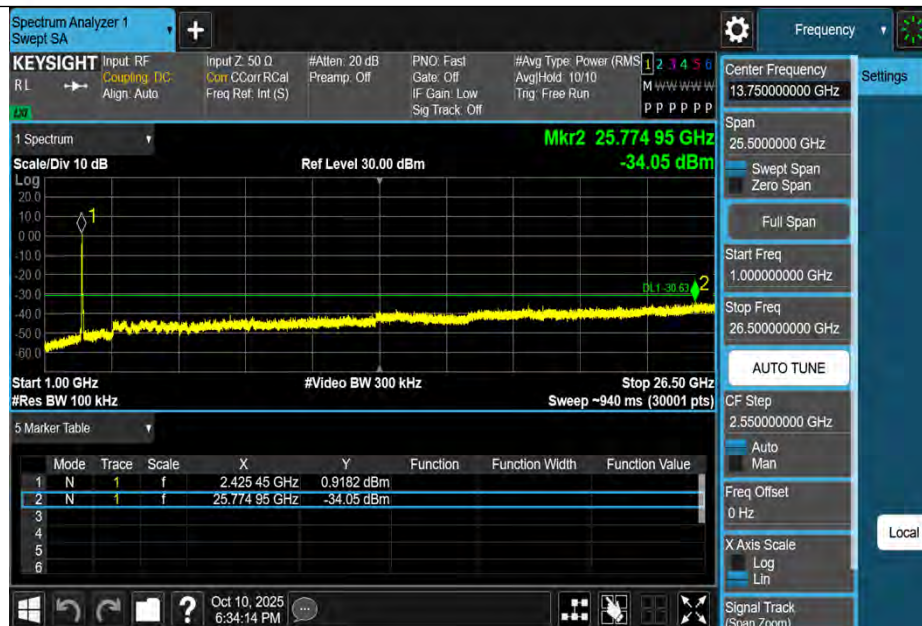
11N40MIMO-Ant2-2422-0-Reference-PASS



11N40MIMO-Ant1-2422-30~1000-PASS



11N40MIMO-Ant2-2422-30~1000-PASS



11N40MIMO-Ant1-2422-1000~26500-PASS



11N40MIMO-Ant2-2422-1000~26500-PASS



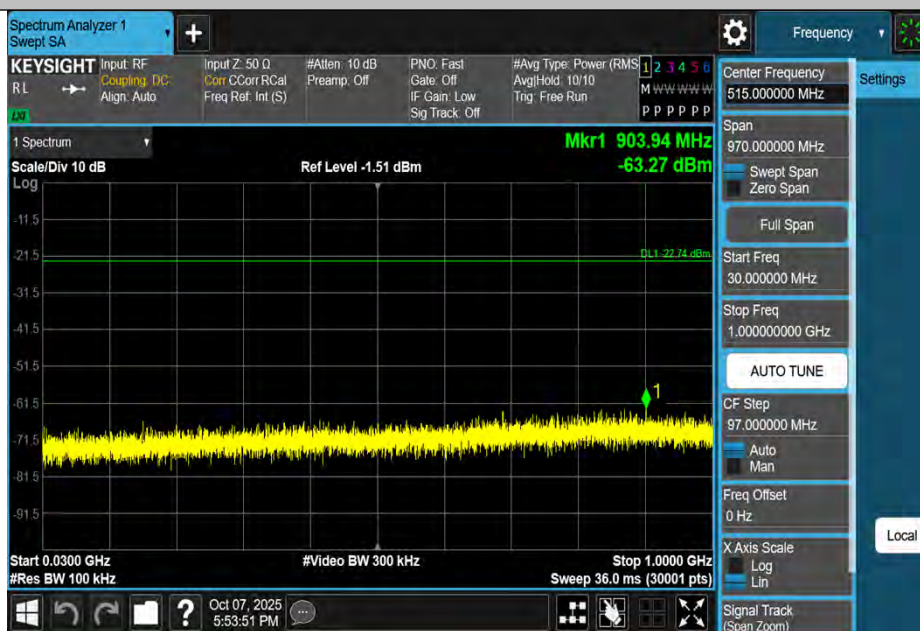
11N40MIMO-Ant1-2437-0-Reference-PASS



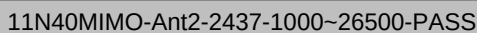
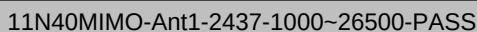
11N40MIMO-Ant2-2437-0-Reference-PASS



11N40MIMO-Ant1-2437-30~1000-PASS



11N40MIMO-Ant2-2437-30~1000-PASS





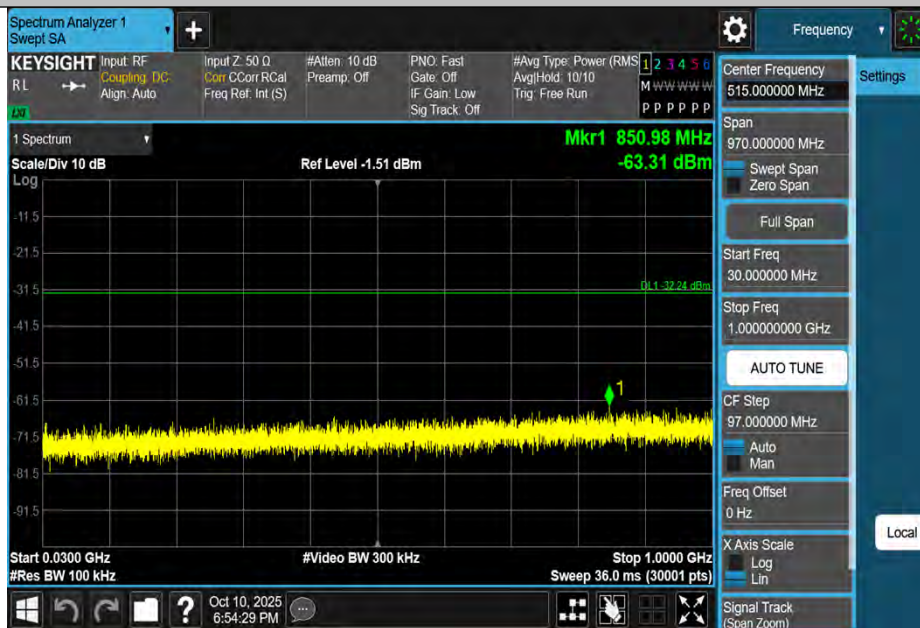
11N40MIMO-Ant1-2452-0-Reference-PASS



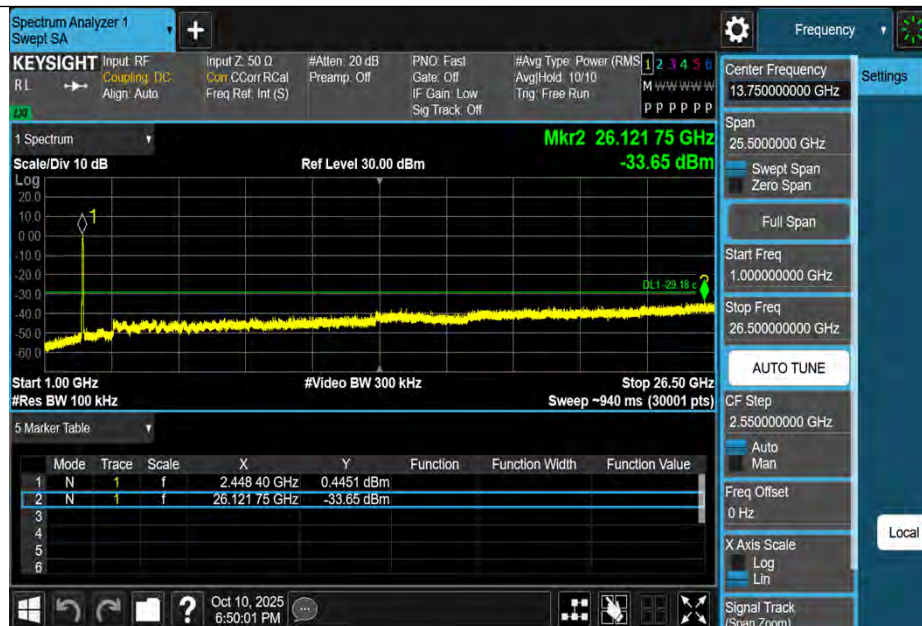
11N40MIMO-Ant2-2452-0-Reference-PASS



11N40MIMO-Ant1-2452-30~1000-PASS



11N40MIMO-Ant2-2452-30~1000-PASS



11N40MIMO-Ant1-2452-1000~26500-PASS



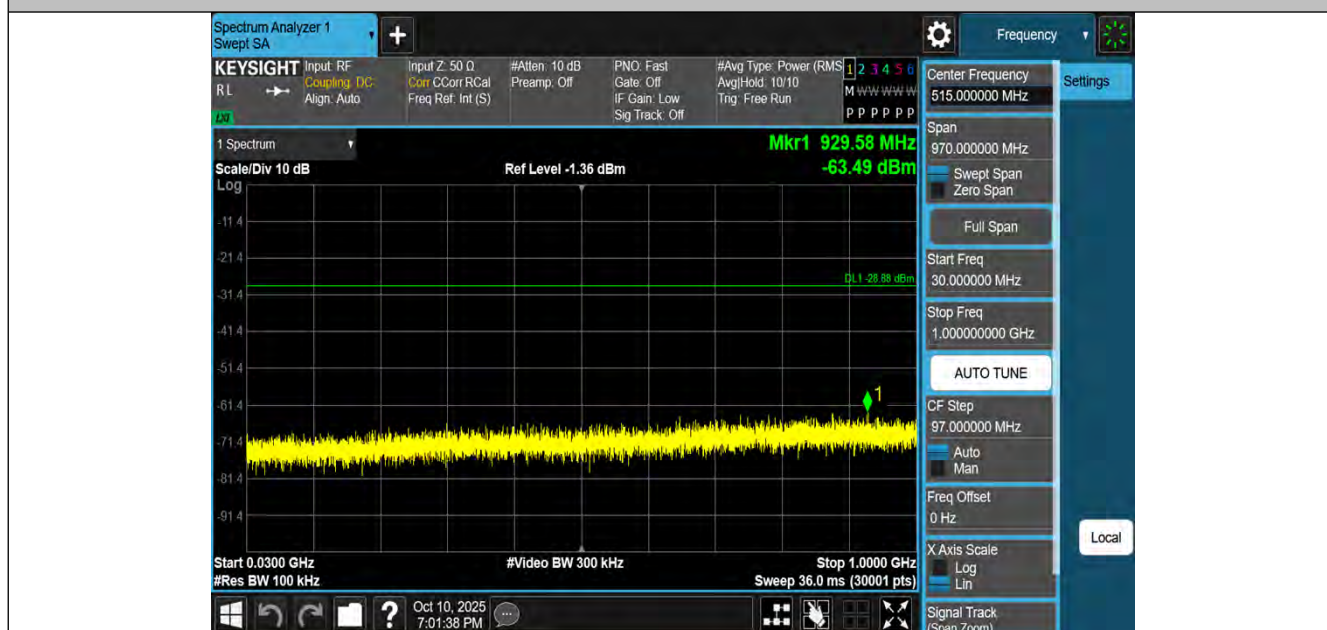
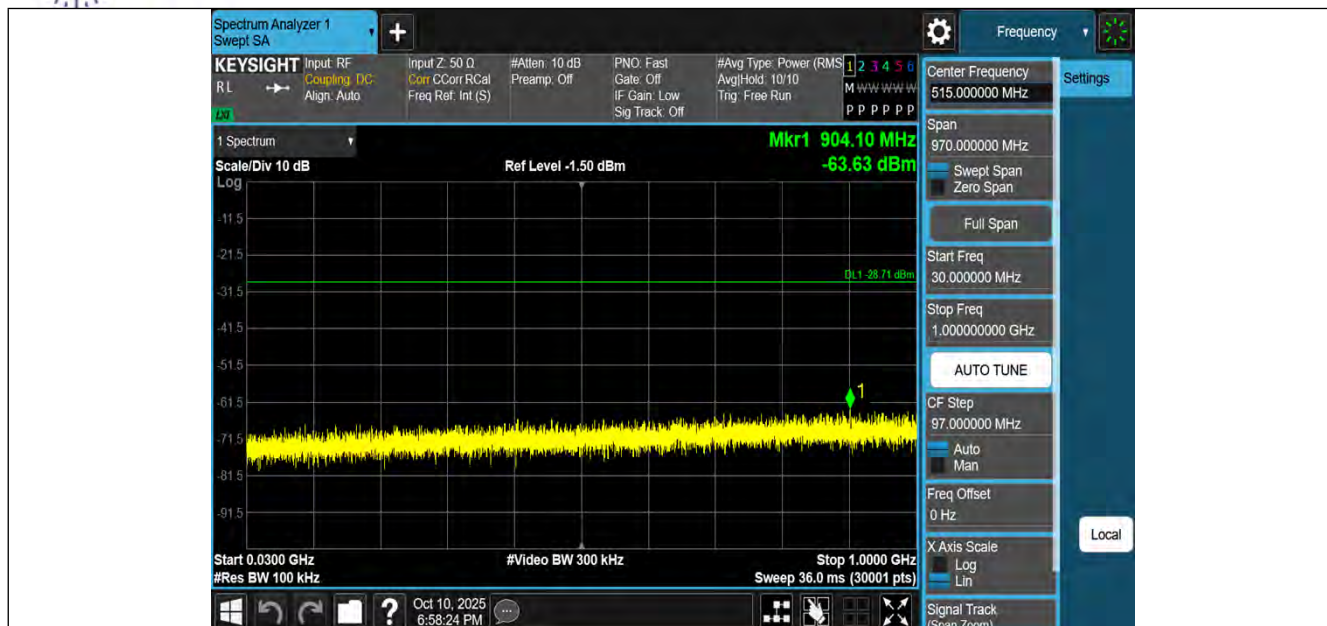
11N40MIMO-Ant2-2452-1000~26500-PASS



11AX20MIMO-Ant1-2412-0~Reference-PASS



11AX20MIMO-Ant2-2412-0~Reference-PASS





11AX20MIMO-Ant1-2412-1000~26500-PASS



11AX20MIMO-Ant2-2412-1000~26500-PASS



11AX20MIMO-Ant1-2437-0~Reference-PASS



11AX20MIMO-Ant2-2437-0~Reference-PASS



11AX20MIMO-Ant1-2437-30~1000-PASS



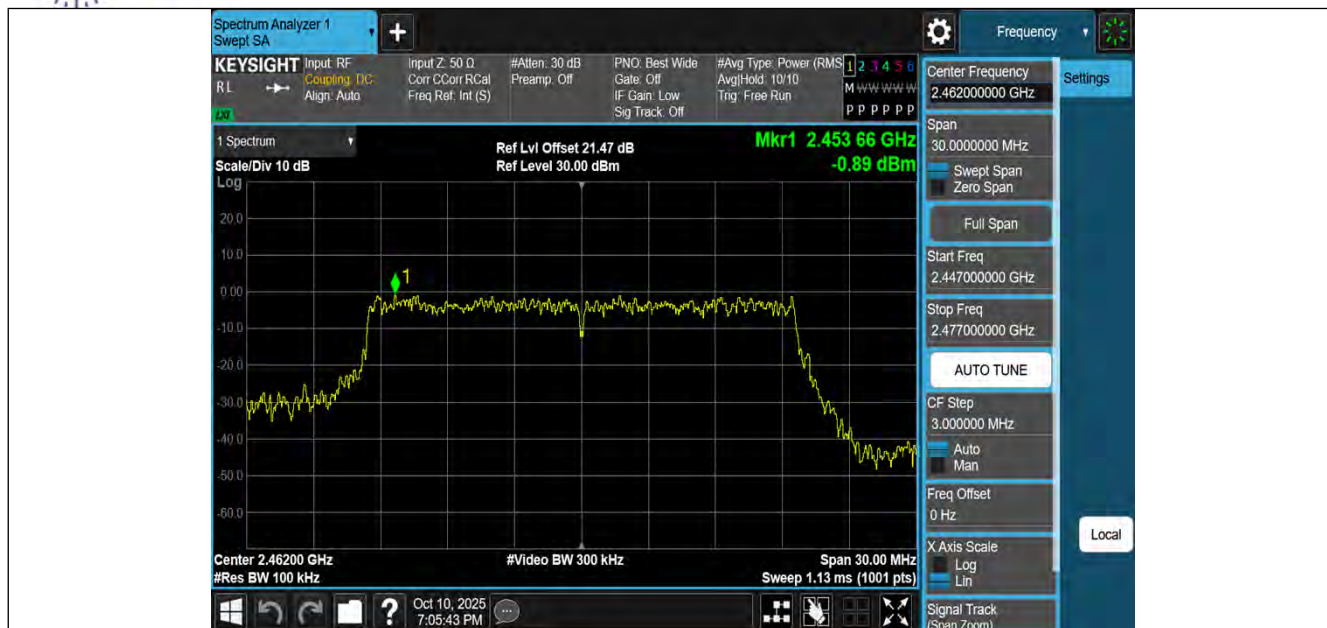
11AX20MIMO-Ant2-2437-30~1000-PASS



11AX20MIMO-Ant1-2437-1000-26500-PASS



11AX20MIMO-Ant2-2437-1000-26500-PASS



11AX20MIMO-Ant1-2462-0~Reference-PASS



11AX20MIMO-Ant2-2462-0~Reference-PASS