

RF TEST REPORT

FCC ID: 2ANTO-AX162

Test Report No.....: RF231205004-02-002

Product(s) Name.....: MR All in one

Model(s).....: AppleCore_16X, AppleCore_16XS(X may be 0-9, S may be A-Z)

Trade Mark.....: N/A

Applicant.....: EmdoorVR Technology Co., Ltd

Address.....: 8F Chungu bld, Wonderful life wisdom Valley technology Park,
No.83 Dabao RD., Xin an ST., Baoan dist., Shenzhen, China

Receipt Date.....: 2023.12.05

Test Date.....: 2023.12.08~2024.01.02

Issued Date.....: 2024.01.03

Standards.....: 47 CFR FCC Part 15, Subpart E(Section 15.407);
ANSI C63.10:2013

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

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History of this test report

Original Report Issue Date: 2024.01.03

- No additional attachment
- Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

EmdoorVR Technology Co., Ltd

8F Chungu bld, Wonderful life wisdom Valley technology Park, No.83 Dabao RD., Xin an ST., Baoan dist., Shenzhen, China

1.2 Manufacturer

EmdoorVR Technology Co., Ltd

8F Chungu bld, Wonderful life wisdom Valley technology Park, No.83 Dabao RD., Xin an ST., Baoan dist., Shenzhen, China

1.3 Basic Description of Equipment Under Test

Product No.	POC231205004-S001, POC231205004-S002	
Equipment Name	MR All in one	
Model Name	AppleCore_16X, AppleCore_16XS(X may be 0-9, S may be A-Z)	
Model differences	AppleCore_16XS is based on AppleCore_16X, removed cameras, the other is the same	
Trade Mark	N/A	
Power Supply	DC 5V from adapter or DC 3.8V from battery	
Adapter Information	Model: ES019C-U120150XYF Input: 100-240V~ 50/60Hz 0.6A Output: 5V=== 3.0A or 9V=== 2.0A or 12V=== 1.5A	
Operating Temperature	0℃-45℃	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band & Max Conducted Output Power	5150MHz ~5250MHz	802.11ac20: 15.84dBm(0.038W)
	5725MHz ~5850MHz	802.11ac20: 16.76dBm(0.047W)
Product Type	IEEE 802.11a/n/ac: WLAN (MIMO)	
Nominal Bandwidth	20MHz / 40MHz / 80MHz	
Modulation	OFDM	
Antenna gain	Ant1: 1.93dBi, Ant2: 2.14dBi	
Antenna type	FPC antenna	
Data Rate (Mbps)	IEEE 11a mode : 6/9/12/18/24/36/48/54 IEEE 11n mode : up to 300 IEEE 11ac mode : up to 866.6	

Channel Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac (20MHz)	5180-5240	36-48
5725-5850		5745-5825	149-165
5150-5250	802.11n /ac (40MHz)	5190-5230	38-46
5725-5850		5755-5795	151-159
5150-5250	802.11ac (80MHz)	5210	42
5475-5850		5775	155

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Test item	Standard	Results	Remarks
AC Power Conducted Emission	15.207 15.407(b)	Pass	Meet the requirement of the limit
Radiated Emission	15.205(a) 15.209(a) 15.407(b)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note
Spectrum Bandwidth	15.407(a) 15.407(e)	Pass	Meet the requirement of the limit
Conducted Output Power	15.407(a)	Pass	Meet the requirement of the limit
Power Spectral Density	15.407(a)	Pass	Meet the requirement of the limit
Note: The EUT has 2 FPC antennas arrangement which was permanently attached.			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart E

KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 789033 D02 General UNII Test Procedures New Rules 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	MXA Signal Analyzer	Keysight	N9010A	MY51440158	2023/4/22	2024/4/21
3	Log periodic antenna	Schwarzbeck	VULB 9168	1151	2023/5/4	2024/5/3
4	Low frequency amplifier	/	LNA 0920N	2014	2023/5/3	2024/5/2
5	High frequency amplifier	Schwarzbeck	BBV 9718	284	2023/5/3	2024/5/2
6	Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1273	2023/5/4	2024/5/3
7	Temp&Humidity Recorder	Meideshi	JR900	/	2023/5/3	2024/5/2
8	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	2023/7/16	2024/7/15
9	Loop Antenna	SCHWARZBECK	FMZB1519 B	00029	2023/7/16	2024/7/15
10	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	2023/5/3	2024/5/2
13	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2			
Conducted Emission						
1	LISN	Rohde&Schwarz	ENV216	100075	2023/5/3	2024/5/2
2	ISN	Schwarzbeck	CATE 5 8158	#171	2023/5/3	2024/5/2
3	ISN	Schwarzbeck	CAT 3 8158	00187	2023/4/1	2024/3/31
4	Test receiver	Rohde&Schwarz	ESCI	100718	2023/5/3	2024/5/2
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	2023/5/3	2024/5/2
6	Temp&Humidity Recorder	Meideshi	JR900	/	2023/5/3	2024/5/2
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2			
RF Conducted Emission						
1	MXA Signal Analyzer	Keysight	N9021B	MY60080169	2023/4/23	2024/4/22
2	RF Control Unit	dsusoft	JS0806-2	21G8060449	2023/4/23	2024/4/22
3	power supply unit	dsusoft	JS0806-4ADC	N/A	2023/4/23	2024/4/22
4	VXG Signal Generator	Keysight	M9384B	MY61270787	2023/4/23	2024/4/22
5	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	2023/4/23	2024/4/22
6	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002 K50-116064-Dt	2023/4/23	2024/4/22
7	Test software	dsusoft	JS1120-3 Ver.3.2.22.0			

2.4 Operation 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
☒	802.11a	Operating mode	☐	1TX	☒	2TX	☐	3TX			
☒	802.11n(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX			
☒	802.11n(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX			
☒	802.11ac(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX			
☒	802.11ac(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX			
☒	802.11ac(80MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX			

2.5 Test Condition

Test Item	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	25°C, 53% RH	AC 120V/60Hz	Albert Fan
Radiated Emission	24°C, 51% RH	AC 120V/60Hz	Albert Fan
Spectrum Bandwidth	24.4°C, 53% RH	DC 3.8V	Henry Huang
Conducted Power	24.4°C, 53% RH	DC 3.8V	Henry Huang
Power Spectral Density	24.4°C, 53% RH	DC 3.8V	Henry Huang

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

The applicant declare the operating environment of EUT as below:

Normal conditions: 3.8V DC, 0~45°C

2.6 Duty Cycle of Test Signal

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

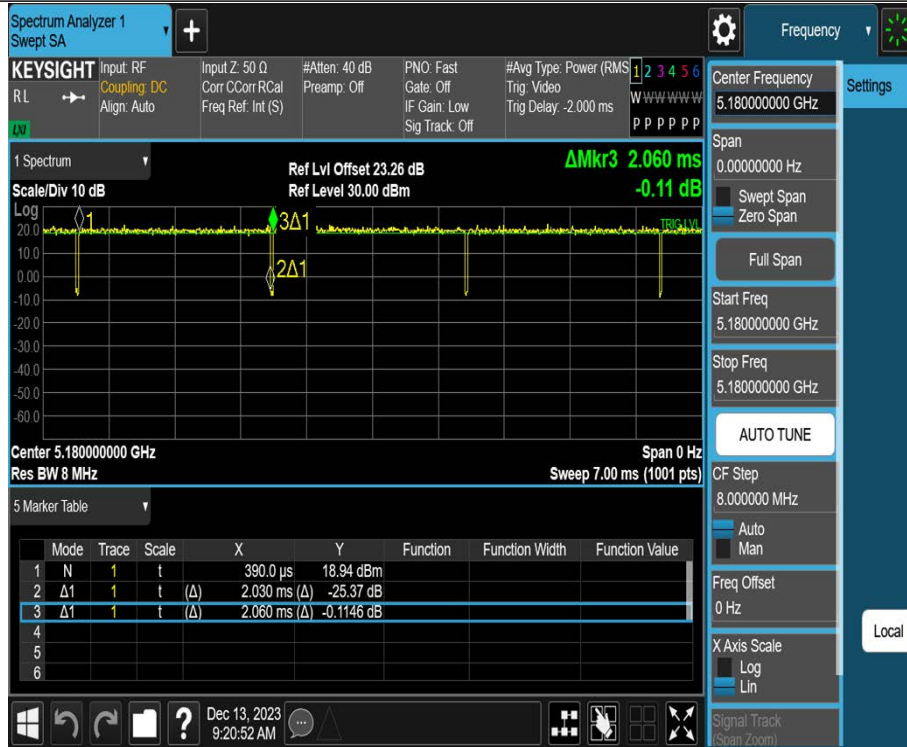
If duty cycle is $< 98\%$, duty factor shall be considered.

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

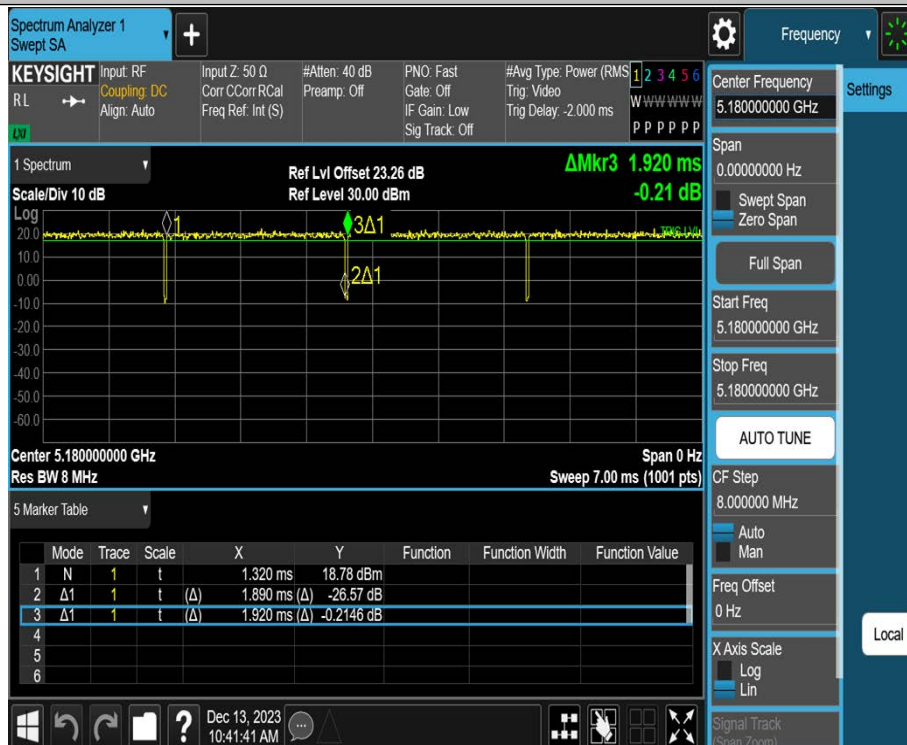
Test Mode	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A-CDD	5180	2.03	2.06	98.54
11N20MIMO	5180	1.89	1.92	98.44
11N40MIMO	5190	0.93	0.96	96.88
11AC20MIMO	5180	1.90	1.94	97.94
11AC40MIMO	5190	0.94	0.98	95.92
11AC80MIMO	5210	0.45	0.49	91.84

Test Graphs

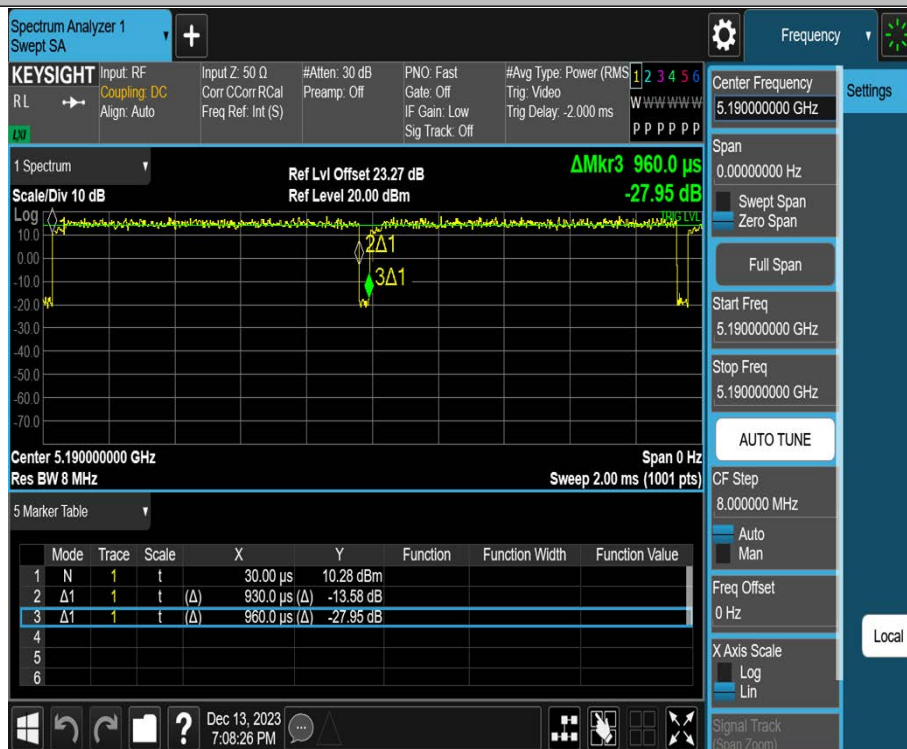
11A-CDD_5180



11N20MIMO_5180



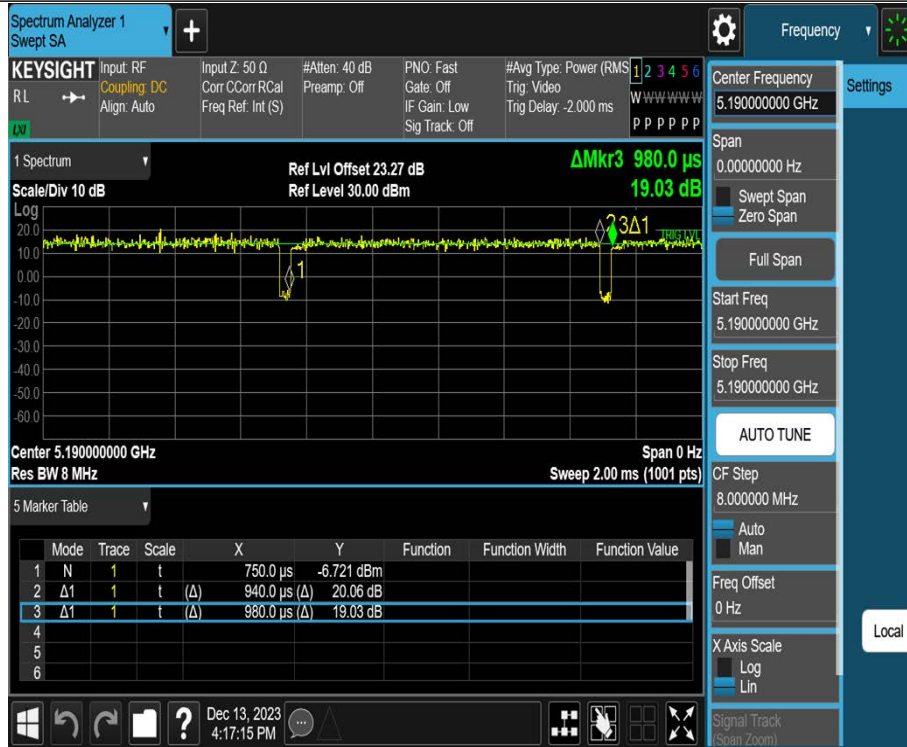
11N40MIMO_5190



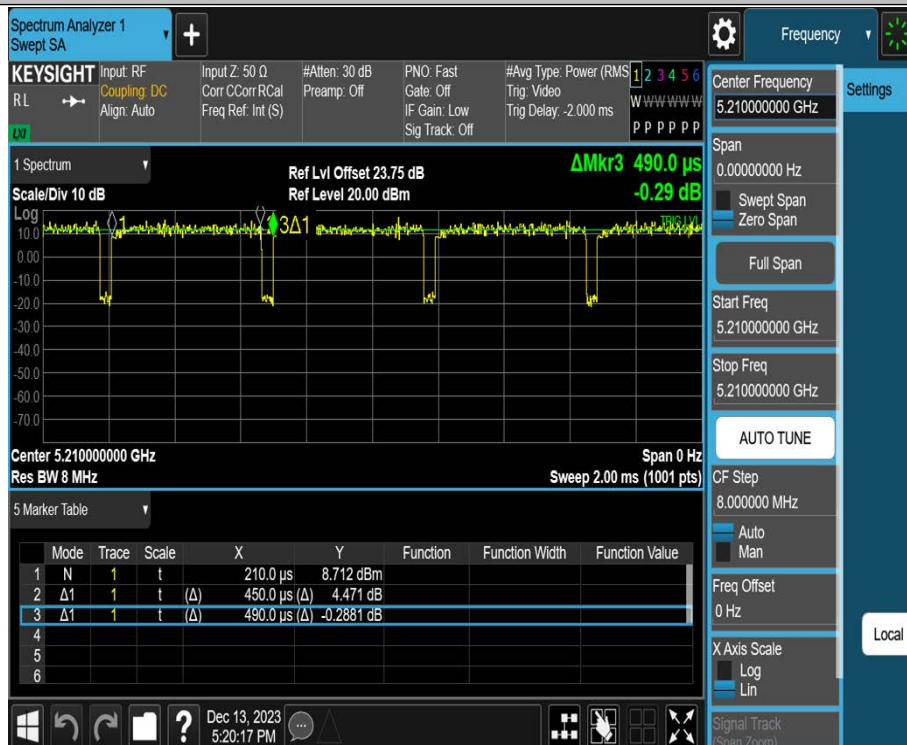
11AC20MIMO_5180



11AC40MIMO_5190



11AC80MIMO_5210



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	$\pm 143.88\text{kHz}$
Power Spectral Density	$\pm 0.743\text{dB}$
Conducted Spurious Emission	$\pm 1.328\text{dB}$
RF power conducted	$\pm 0.384\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.72\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 2.66\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.62\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 4.86\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 3.80\text{dB}$

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 SUPPORT UNITS

None

2.10 Deviation from Standards

None

2.11 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(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.

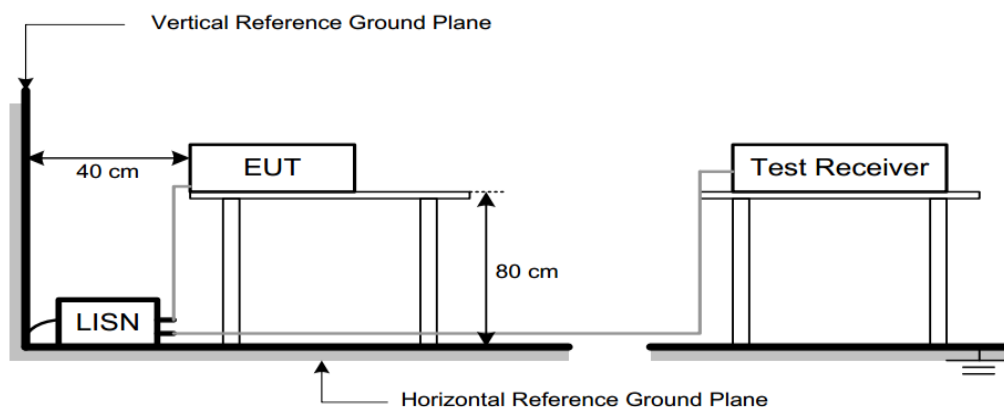
2. The lower limit shall apply at the transition frequencies.

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



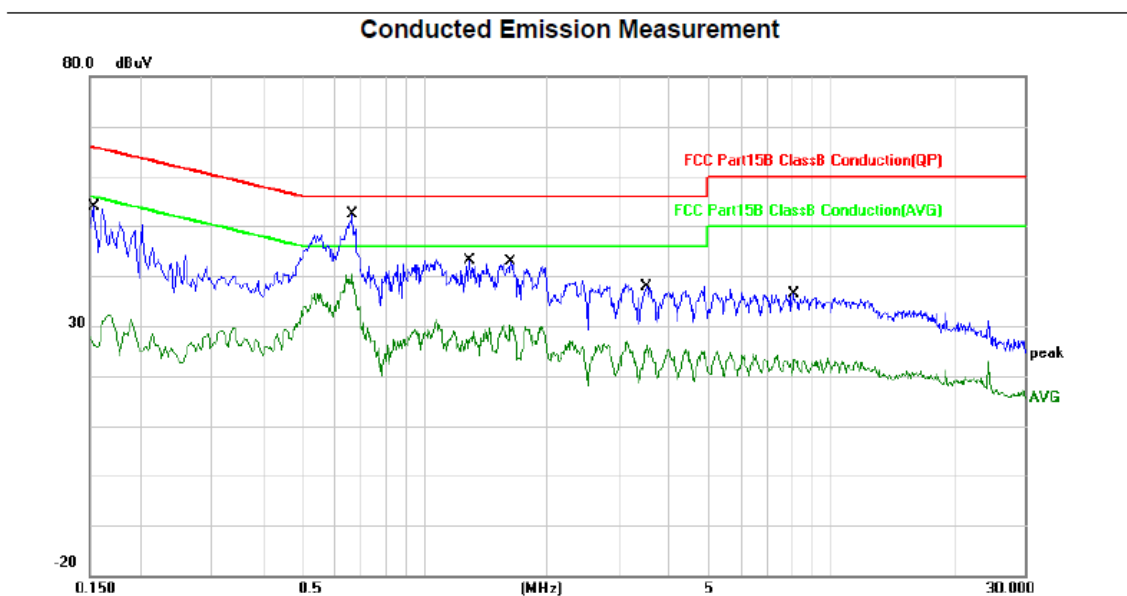
3.1.4 Test Result

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
4. The TX AC20MIMO Mode Channel 149 is found to be the worst case and recorded.

150kHz~30MHz	TX AC20MIMO Channel 149
--------------	-------------------------

Line



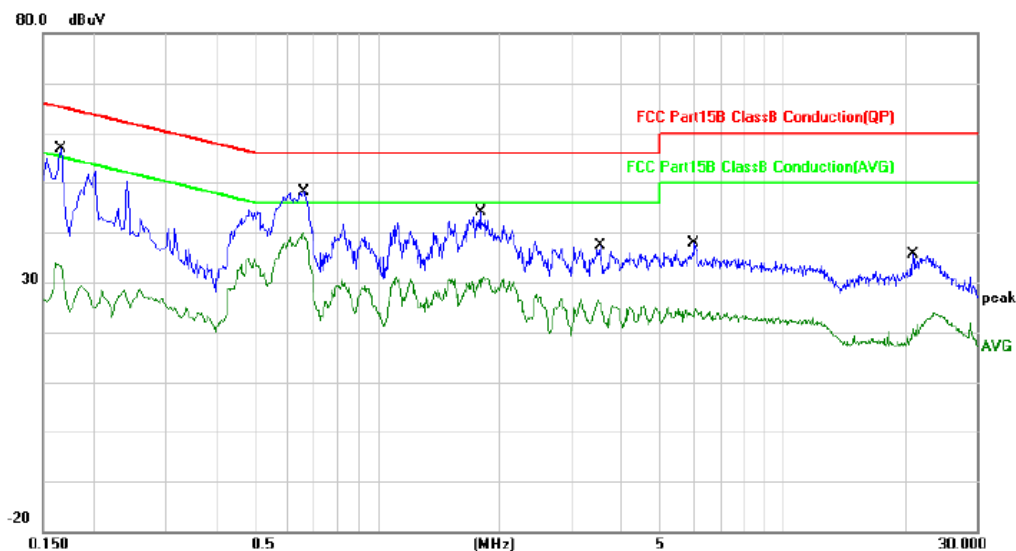
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1540	22.14	20.11	42.25	65.78	-23.53	QP	
2		0.1540	4.65	20.11	24.76	55.78	-31.02	AVG	
3		0.6660	27.96	20.03	47.99	56.00	-8.01	QP	
4 *		0.6660	18.37	20.03	38.40	46.00	-7.60	AVG	
5		1.2900	14.67	20.16	34.83	56.00	-21.17	QP	
6		1.2900	2.98	20.16	23.14	46.00	-22.86	AVG	
7		1.6340	13.33	20.05	33.38	56.00	-22.62	QP	
8		1.6340	5.17	20.05	25.22	46.00	-20.78	AVG	
9		3.5140	9.67	20.15	29.82	56.00	-26.18	QP	
10		3.5140	-0.60	20.15	19.55	46.00	-26.45	AVG	
11		8.1420	10.07	20.09	30.16	60.00	-29.84	QP	
12		8.1420	1.47	20.09	21.56	50.00	-28.44	AVG	

150kHz~30MHz

TX AC20MIMO Channel 149

Neutral

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	25.16	20.30	45.46	65.16	-19.70	QP	
2		0.1660	11.09	20.30	31.39	55.16	-23.77	AVG	
3		0.6580	24.77	20.19	44.96	56.00	-11.04	QP	
4	*	0.6580	18.76	20.19	38.95	46.00	-7.05	AVG	
5		1.7940	17.78	20.37	38.15	56.00	-17.85	QP	
6		1.7940	7.93	20.37	28.30	46.00	-17.70	AVG	
7		3.5300	9.52	20.21	29.73	56.00	-26.27	QP	
8		3.5300	3.25	20.21	23.46	46.00	-22.54	AVG	
9		6.0420	9.03	20.30	29.33	60.00	-30.67	QP	
10		6.0420	2.68	20.30	22.98	50.00	-27.02	AVG	
11		20.9100	5.06	20.09	25.15	60.00	-34.85	QP	
12		20.9100	-2.56	20.09	17.53	50.00	-32.47	AVG	

3.2 Radiated Emission

3.2.1 Limit

1) Limit of radiated emission measurement:

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.

2) Limit of unwanted emission out of the restricted bands:

Frequency(MHz)	EIRP Limit(dBm/MHz)	Equivalent Field Strength at 3m($\text{dB}\mu\text{V}/\text{m}$)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850	-27 NOTE (2)	68.2
	10 NOTE (2)	105.2
	15.6 NOTE (2)	110.8
	27 NOTE (2)	122.2

Note: (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d=3\text{m}$

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

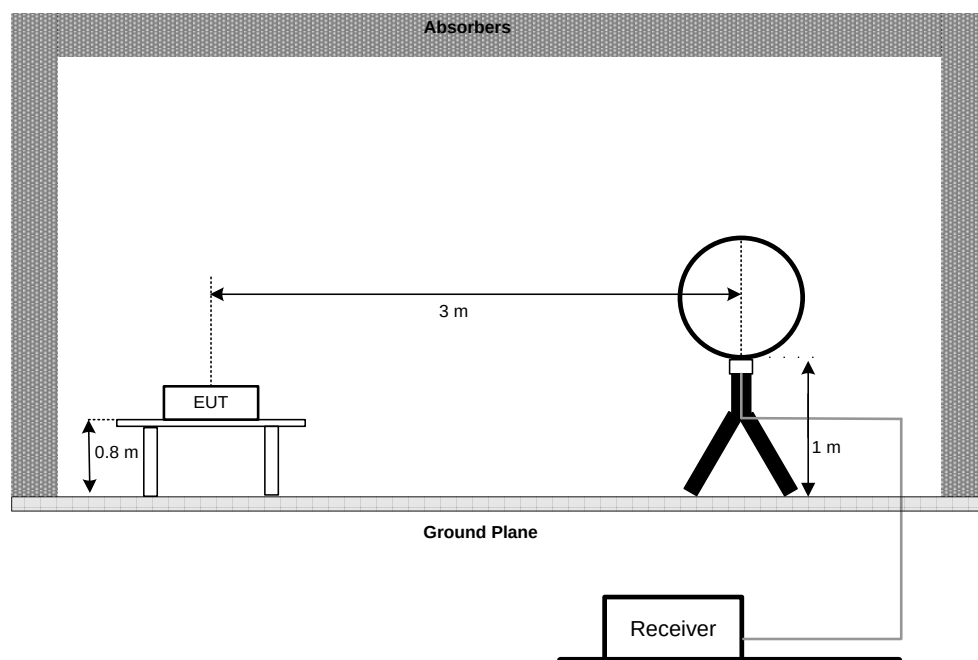
3.2.2 Test Procedure

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	

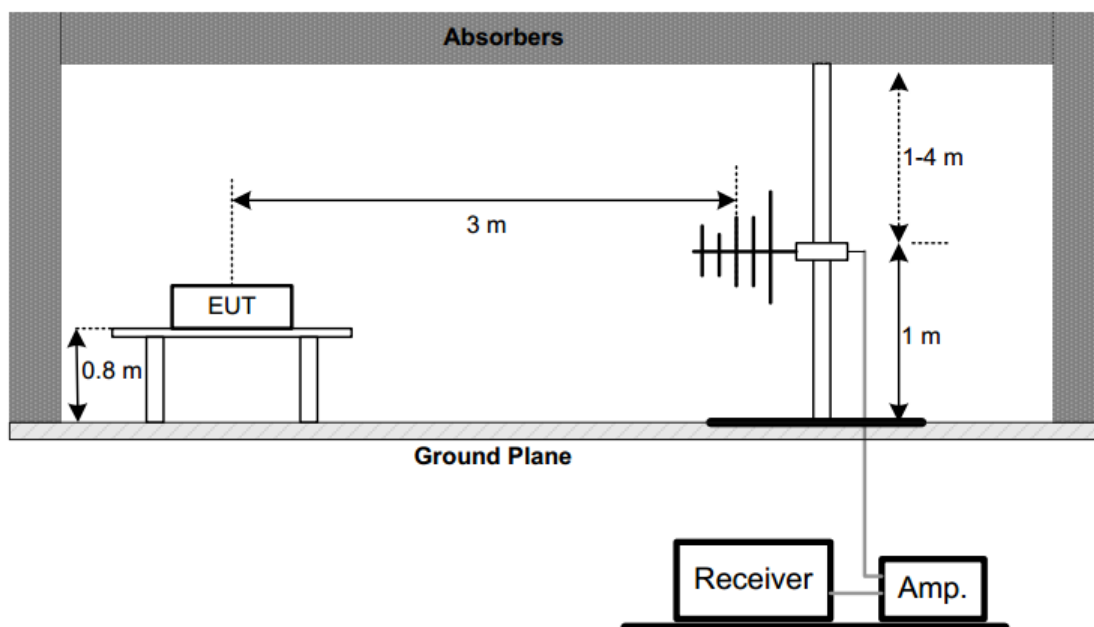
- a) The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b) The measuring distance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

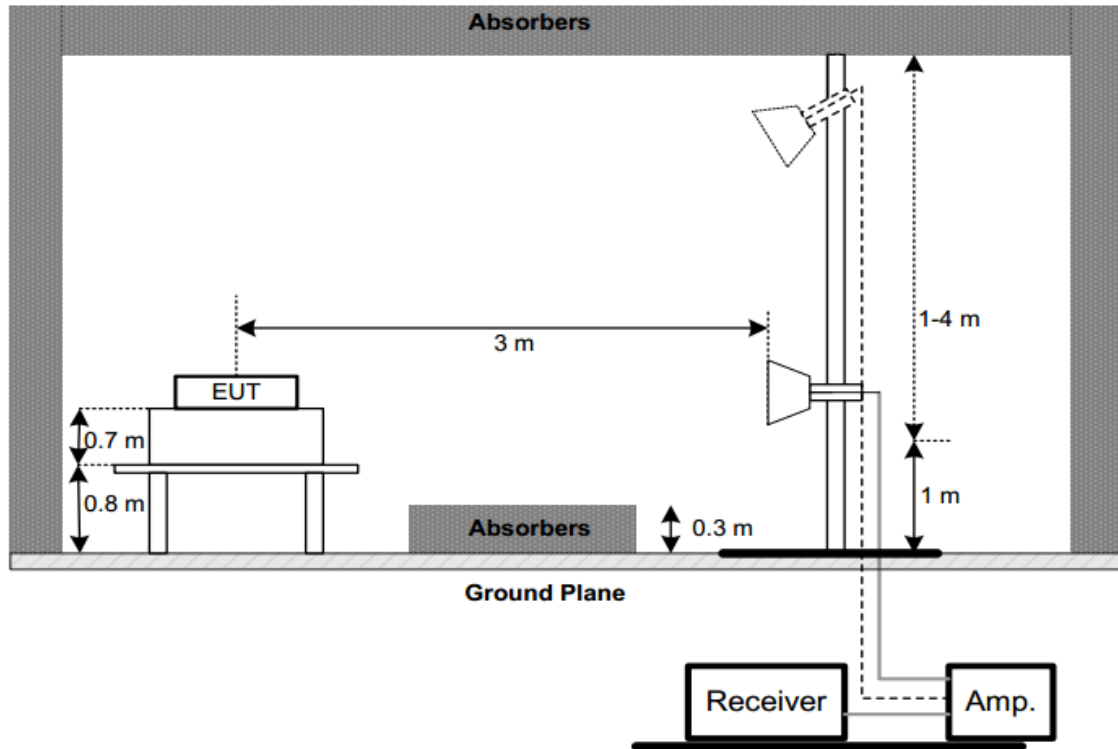
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(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:

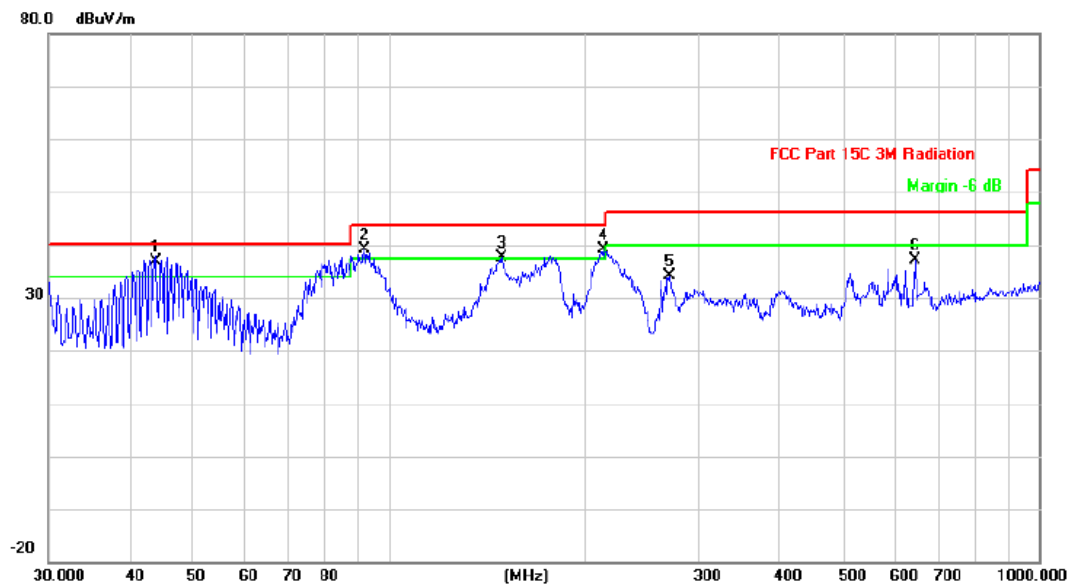
1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit
3. The TX AC20MIMO Mode Channel 149 is found to be the worst case and recorded.

Below 1G (30MHz~1GHz)

TX AC20MIMO Channel 149

VERTICAL

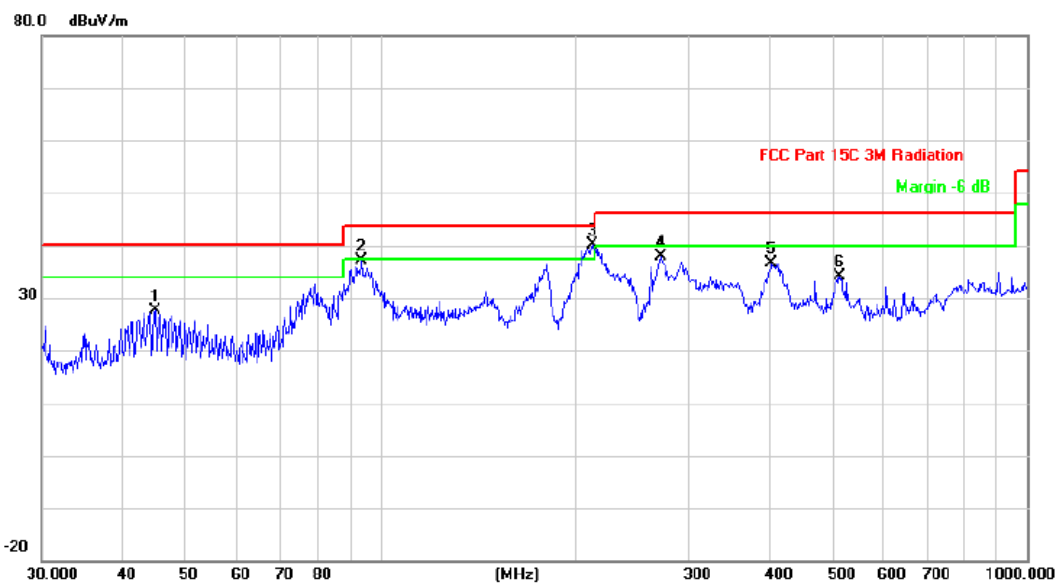
Radiated Emission



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	*	43.8120	46.35	-9.51	36.84	40.00	-3.16	QP		
2	!	91.8161	52.66	-13.58	39.08	43.50	-4.42	peak		
3	!	149.4857	45.61	-8.07	37.54	43.50	-5.96	peak		
4	!	213.7632	51.63	-12.40	39.23	43.50	-4.27	peak		
5		270.3747	44.25	-10.10	34.15	46.00	-11.85	peak		
6		645.1194	37.70	-0.45	37.25	46.00	-8.75	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		44.9004	36.95	-9.43	27.52	40.00	-12.48	peak		
2		93.7681	50.61	-13.41	37.20	43.50	-6.30	peak		
3	*	213.0150	52.63	-12.43	40.20	43.50	-3.30	peak		
4		271.3245	48.07	-10.12	37.95	46.00	-8.05	peak		
5		403.2500	42.49	-5.91	36.58	46.00	-9.42	peak		
6		513.6331	37.22	-3.18	34.04	46.00	-11.96	peak		

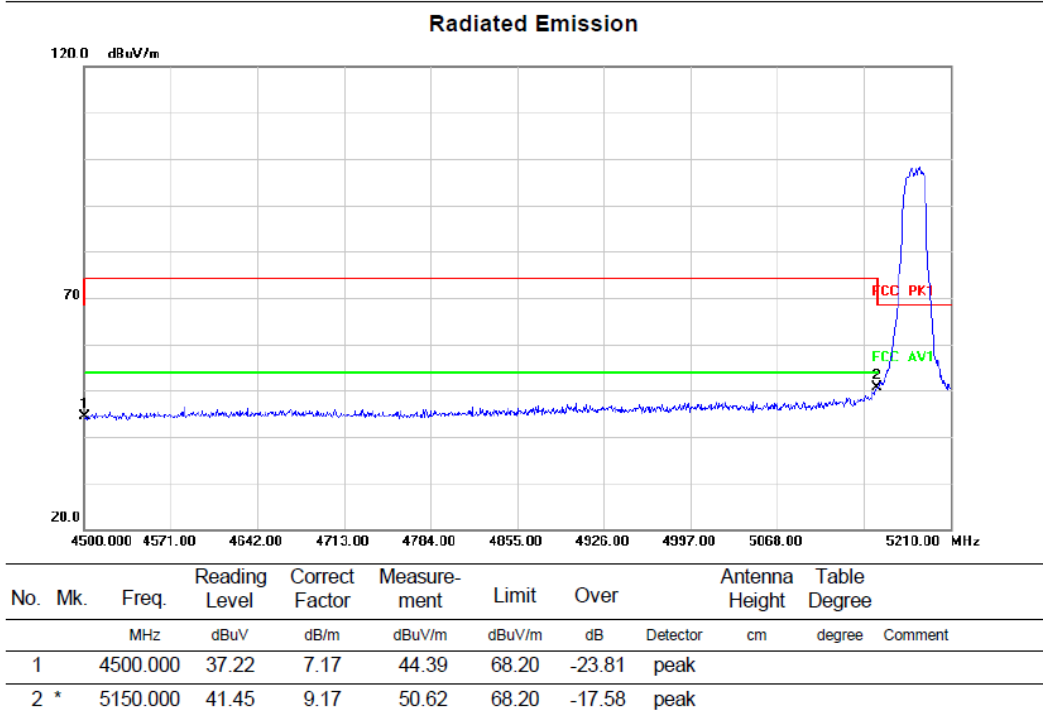
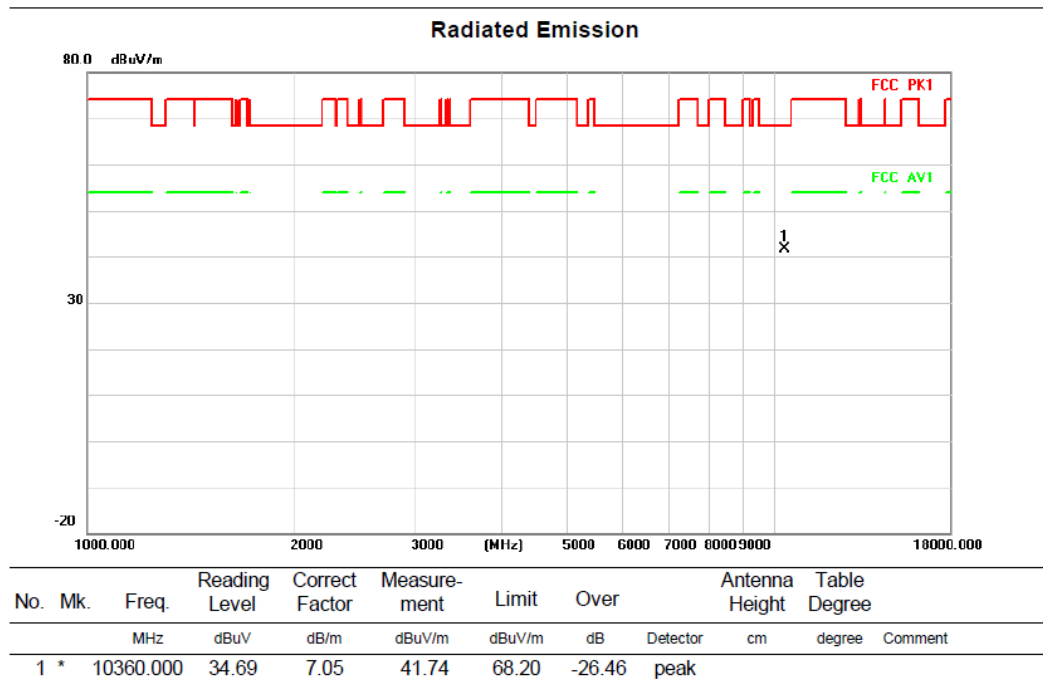
3) Radiated emission: Above 1G

Note:

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

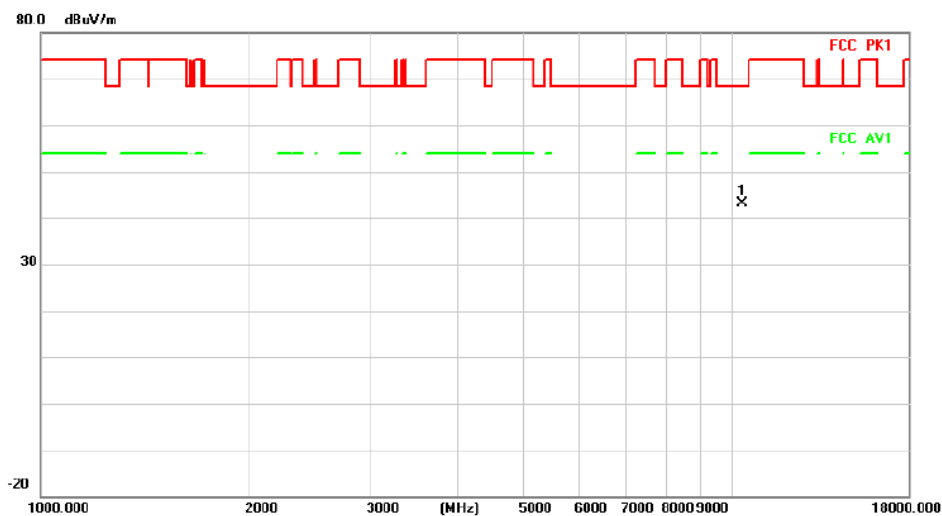
Above 1G (1GHz~18GHz)	Test mode:11A-CDD	Test Channel:36
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VERTICAL



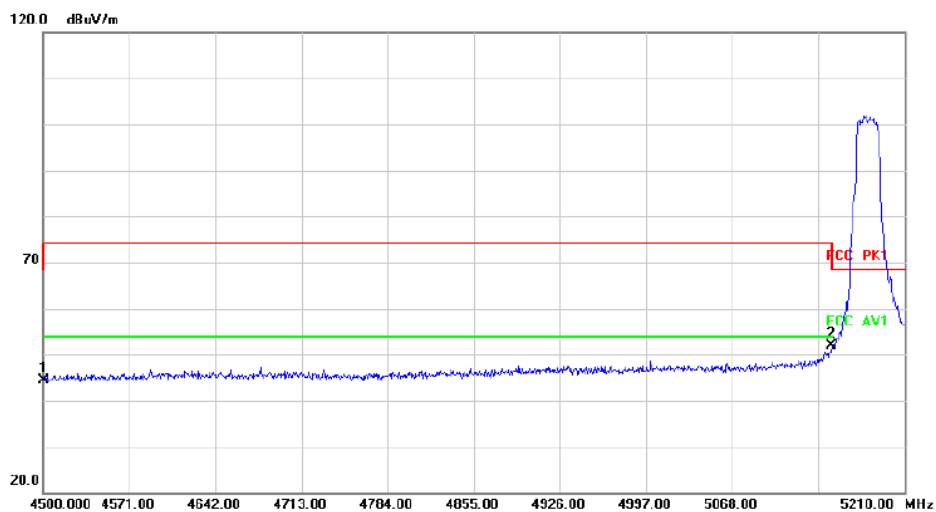
HORIZONTAL

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	*	10360.000	36.07	7.05	43.12	68.20	-25.08	peak		

Radiated Emission



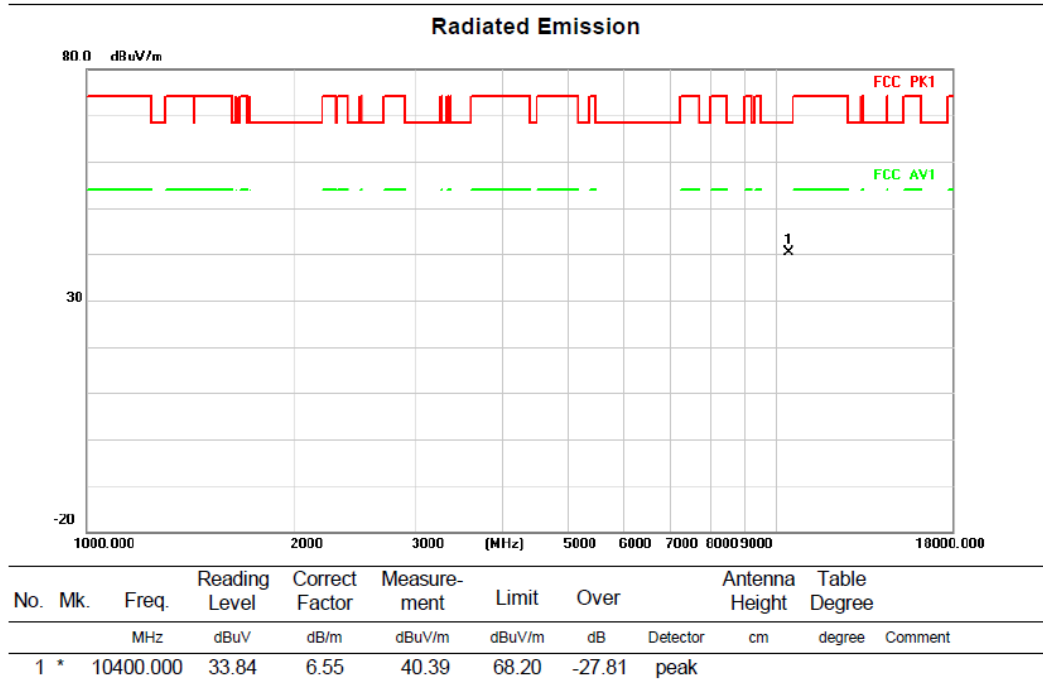
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4500.000	37.31	7.17	44.48	68.20	-23.72	peak		
2	*	5150.000	42.76	9.17	51.93	68.20	-16.27	peak		

Above 1G (1GHz~18GHz)

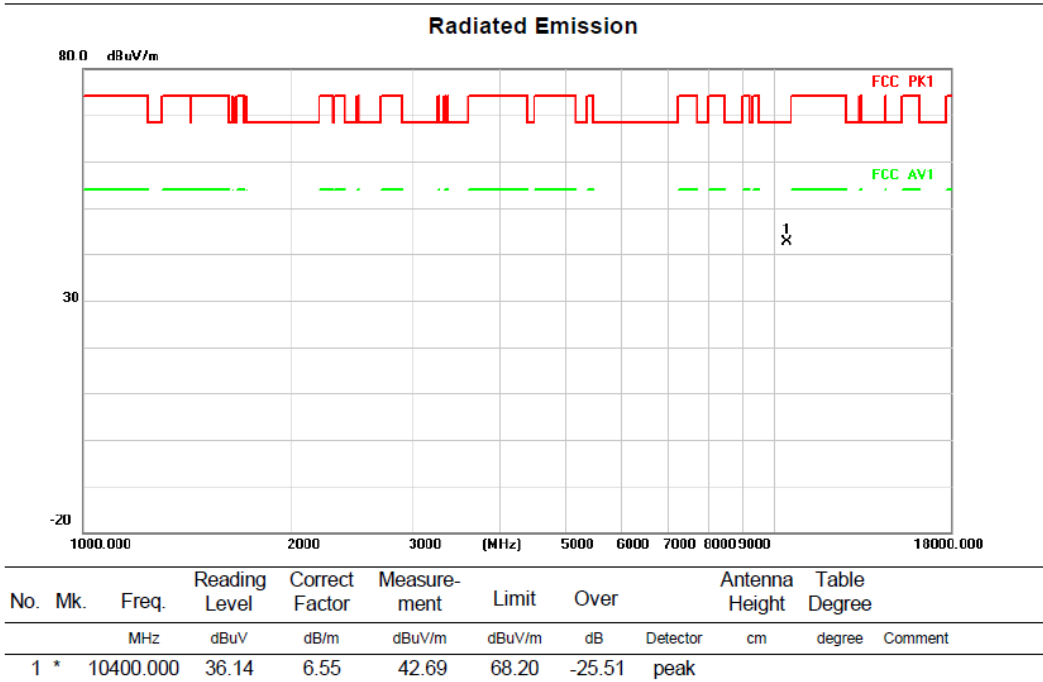
Test mode: 11A-CDD

Test Channel:40

VERTICAL



HORIZONTAL

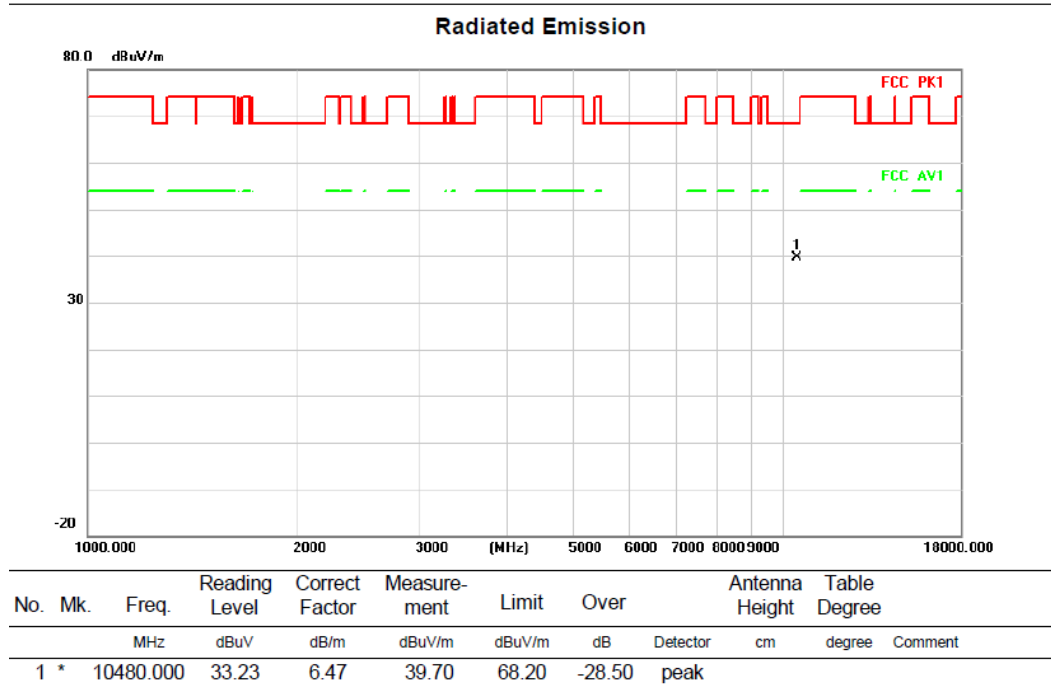


Above 1G (1GHz~18GHz)

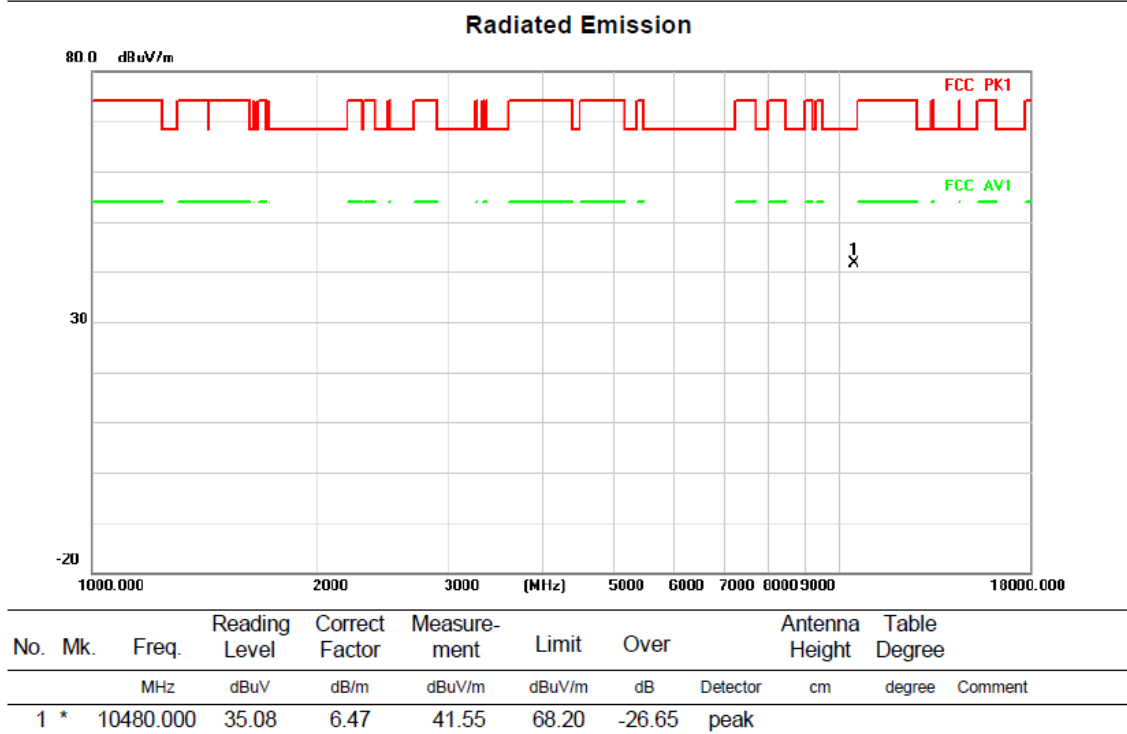
Test mode: 11A-CDD

Test Channel:48

VERTICAL



HORIZONTAL



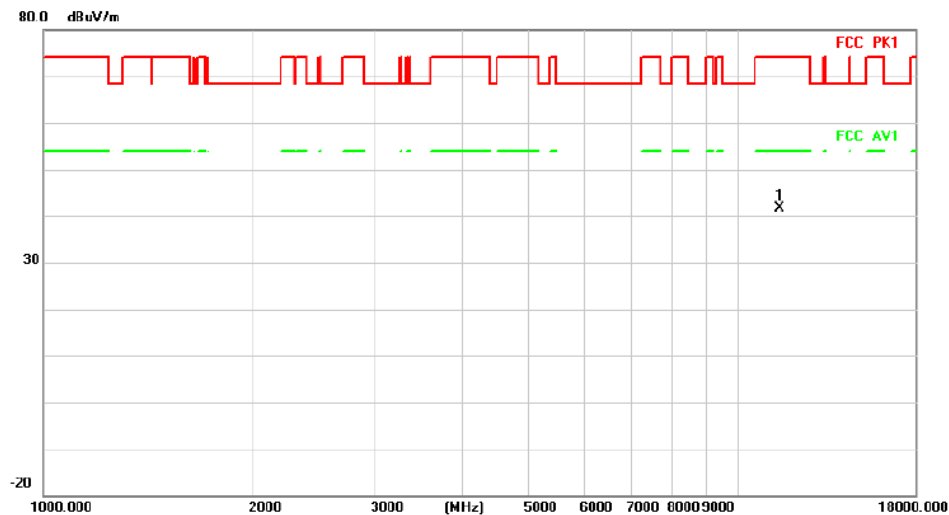
Above 1G (1GHz~18GHz)

Test mode: 11A-CDD

Test Channel:149

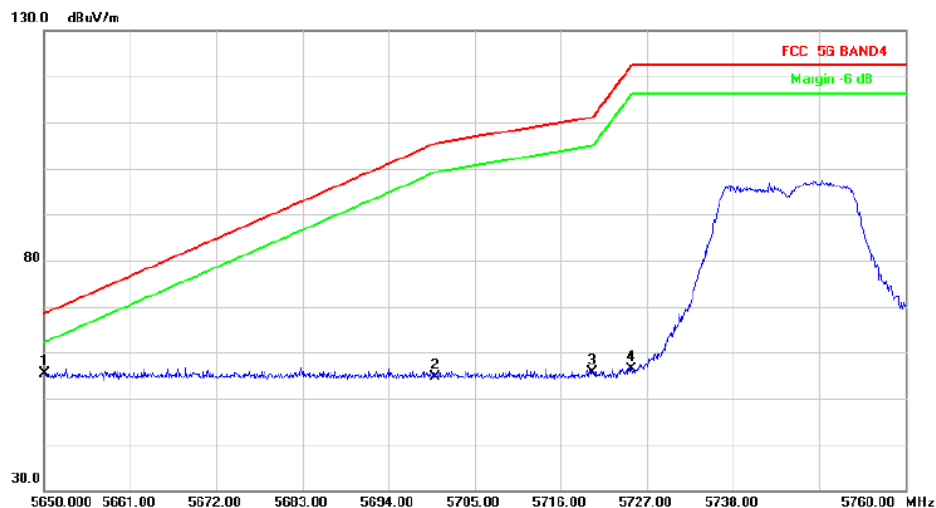
VERTICAL

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	*	11490.000	-7.66	49.26	41.60	74.00	-32.40	peak		

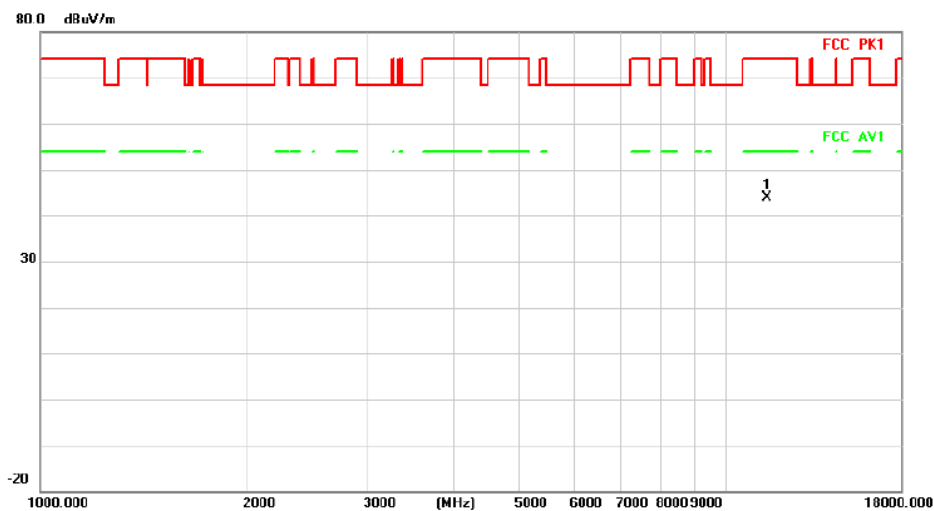
Radiated Emission



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	*	5650.000	46.16	9.16	55.32	68.20	-12.88	peak		
2		5700.000	45.44	9.10	54.54	105.20	-50.66	peak		
3		5720.000	46.62	9.08	55.70	110.80	-55.10	peak		
4		5725.000	47.23	9.08	56.31	122.20	-65.89	peak		

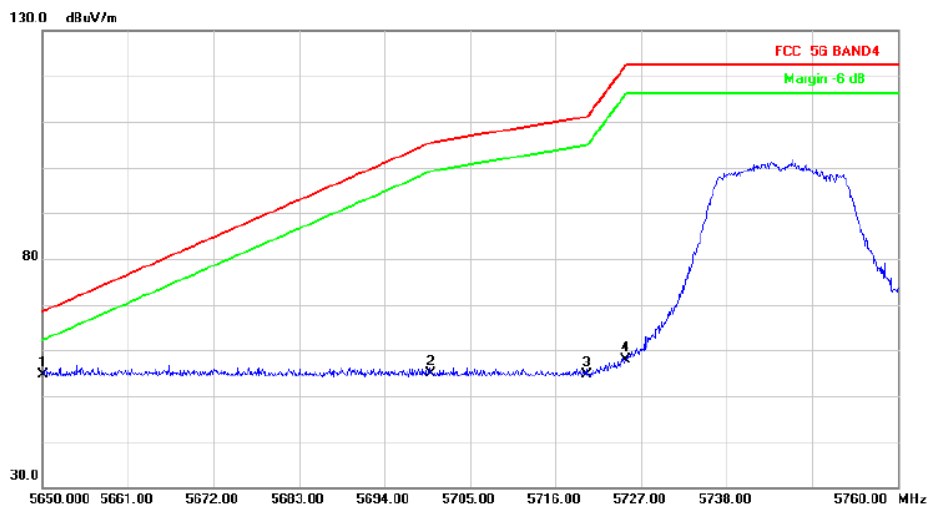
HORIZONTALA

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	cm	degree
1	*	11490.000	-5.41	49.26	43.85	74.00	-30.15	peak	

Radiated Emission



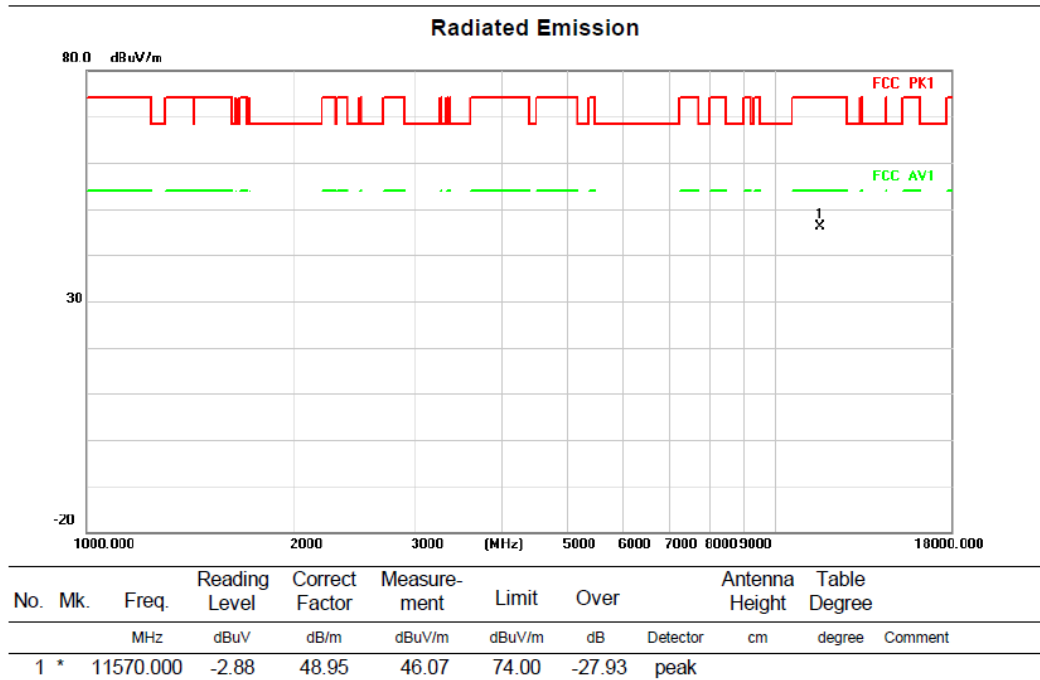
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	5650.000	45.48	9.16	54.64	68.20	-13.56	peak	
2		5700.000	45.80	9.10	54.90	105.20	-50.30	peak	
3		5720.000	45.52	9.08	54.60	110.80	-56.20	peak	
4		5725.000	48.92	9.08	58.00	122.20	-64.20	peak	

Above 1G (1GHz~18GHz)

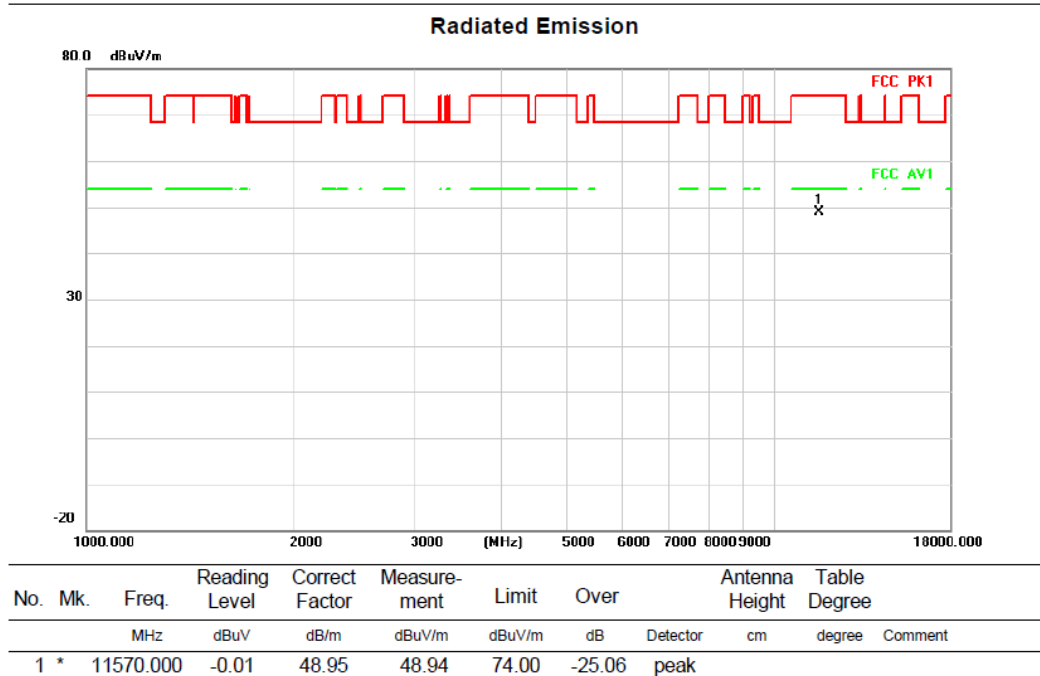
Test mode: 11A-CDD

Test Channel:157

VERTICAL



HORIZONTAL



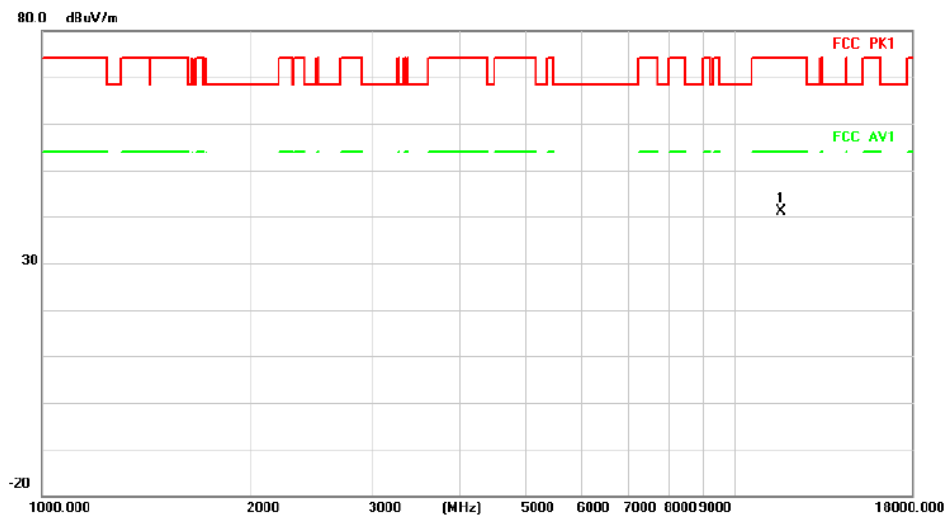
Above 1G (1GHz~18GHz)

Test mode: 11A-CDD

Test Channel:165

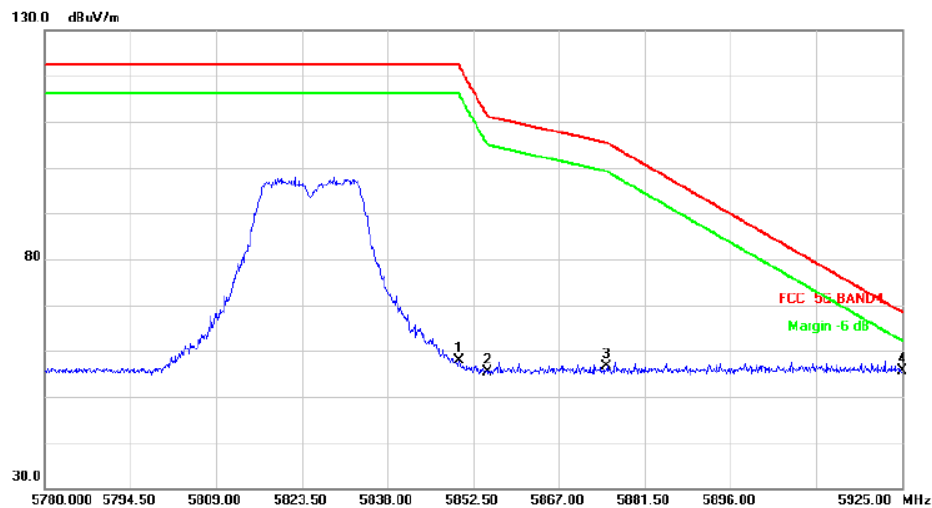
VERTICAL

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	*	11650.000	-7.52	48.62	41.10	74.00	-32.90 peak		

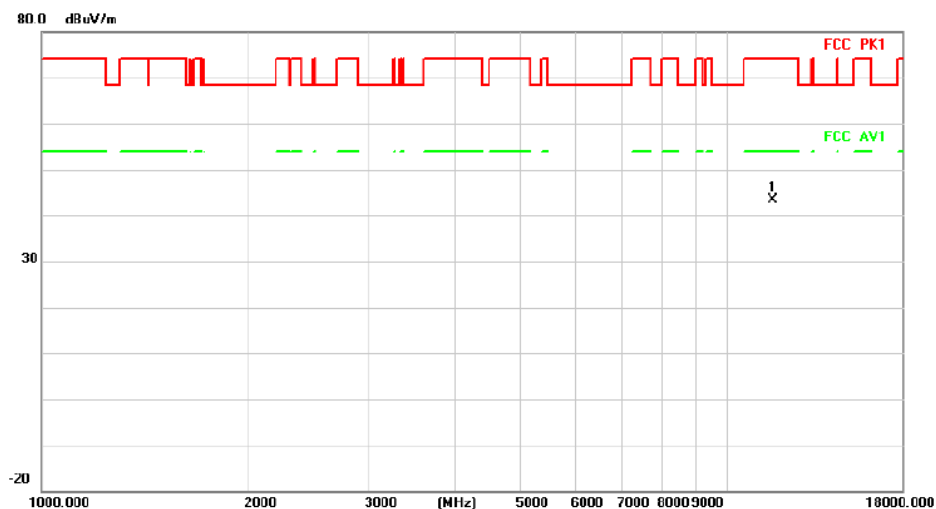
Radiated Emission



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		5850.000	48.60	9.24	57.84	122.20	-64.36 peak		
2		5855.000	46.14	9.26	55.40	110.80	-55.40 peak		
3		5875.000	47.33	9.36	56.69	105.20	-48.51 peak		
4	*	5925.000	46.05	9.61	55.66	68.20	-12.54 peak		

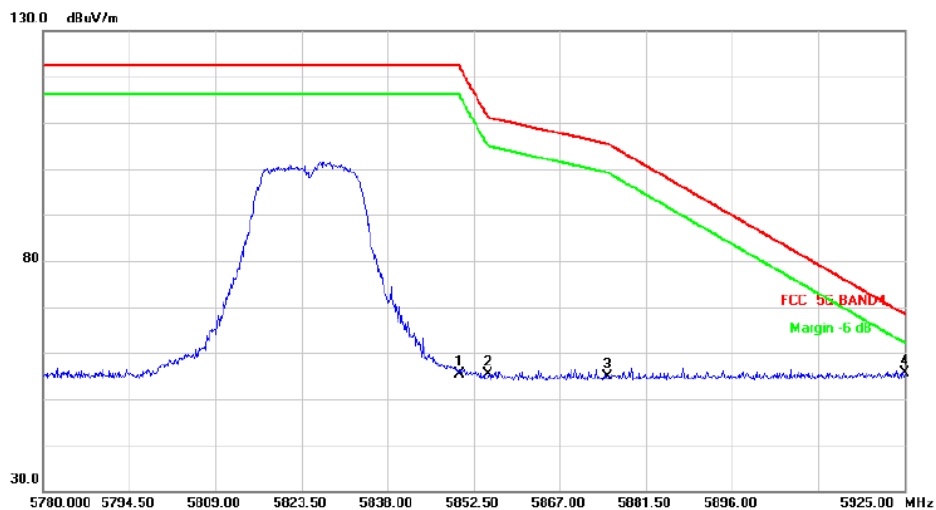
HORIZONTAL

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	*	11650.000	-5.14	48.62	43.48	74.00	-30.52	peak		

Radiated Emission



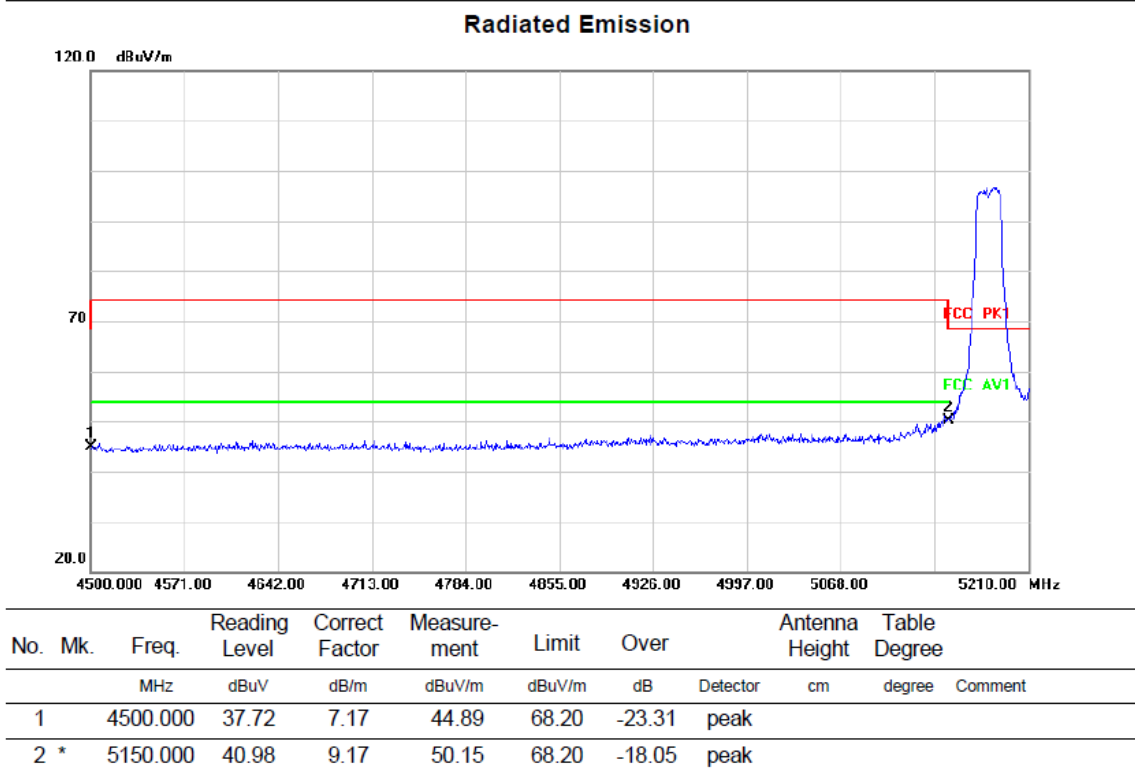
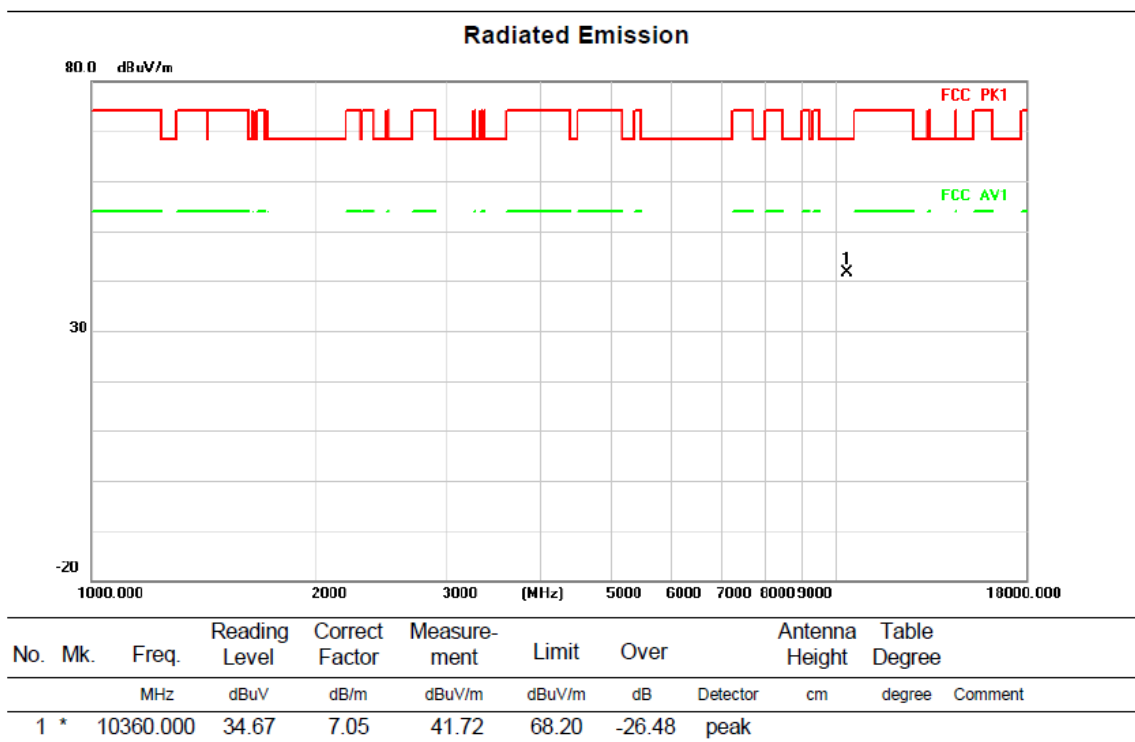
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		5850.000	46.24	9.24	55.48	122.20	-66.72	peak		
2		5855.000	46.24	9.26	55.50	110.80	-55.30	peak		
3		5875.000	45.48	9.36	54.84	105.20	-50.36	peak		
4	*	5925.000	45.98	9.61	55.59	68.20	-12.61	peak		

Above 1G (1GHz~18GHz)

Test mode: 11N20MIMO

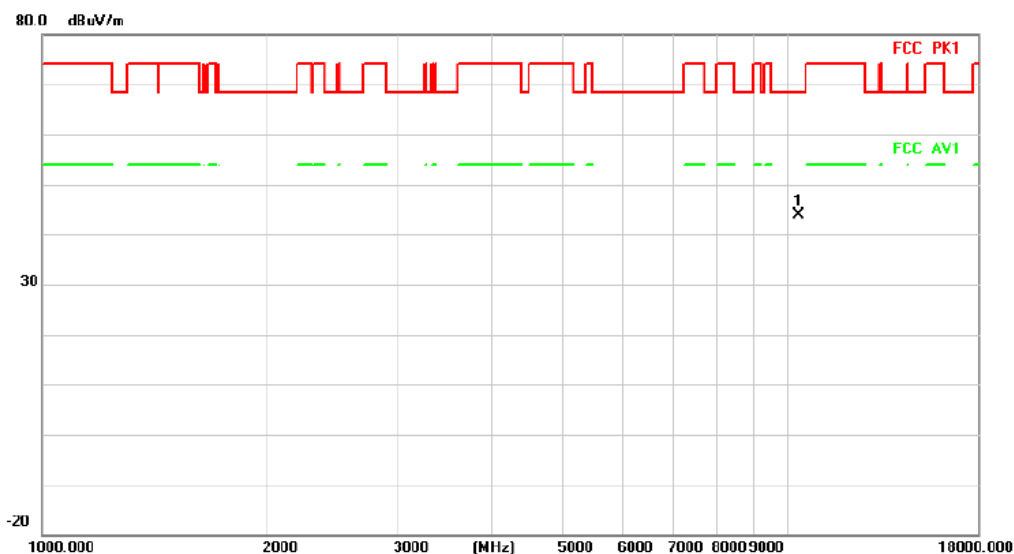
Test Channel:36

VERTICAL



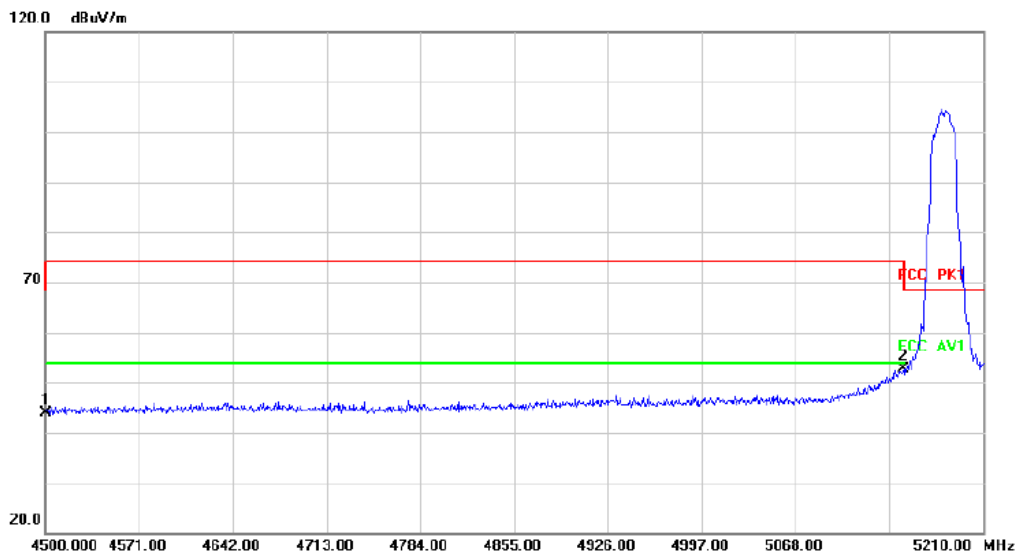
HORIZONTAL

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	Comment
1	*	10360.000	36.83	7.05	43.88	68.20	-24.32	peak			

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		4500.000	36.60	7.17	43.77	68.20	-24.43	peak			
2	*	5150.000	43.41	9.17	52.58	68.20	-15.62	peak			

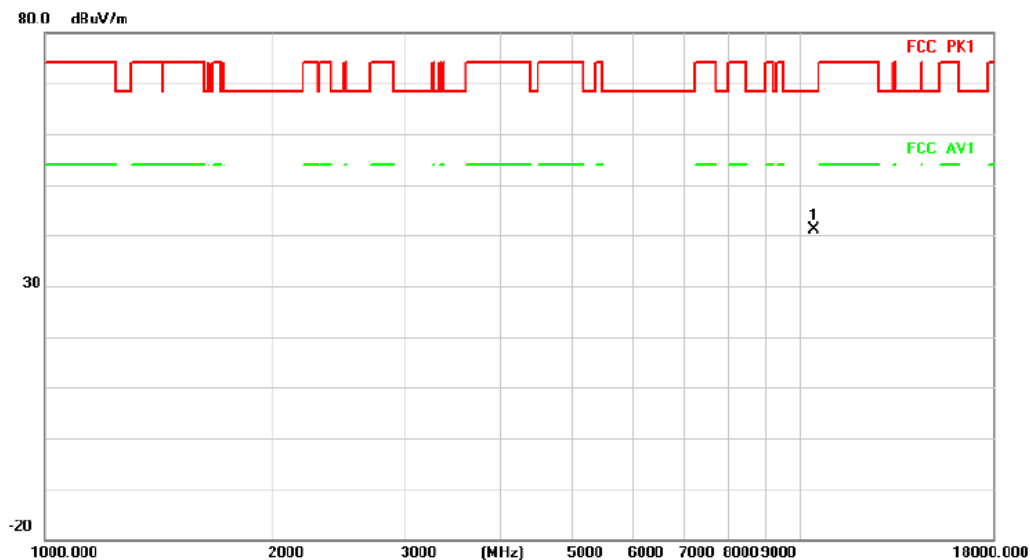
Above 1G (1GHz~18GHz)

Test mode: 11N20MIMO

Test Channel:40

VERTICAL

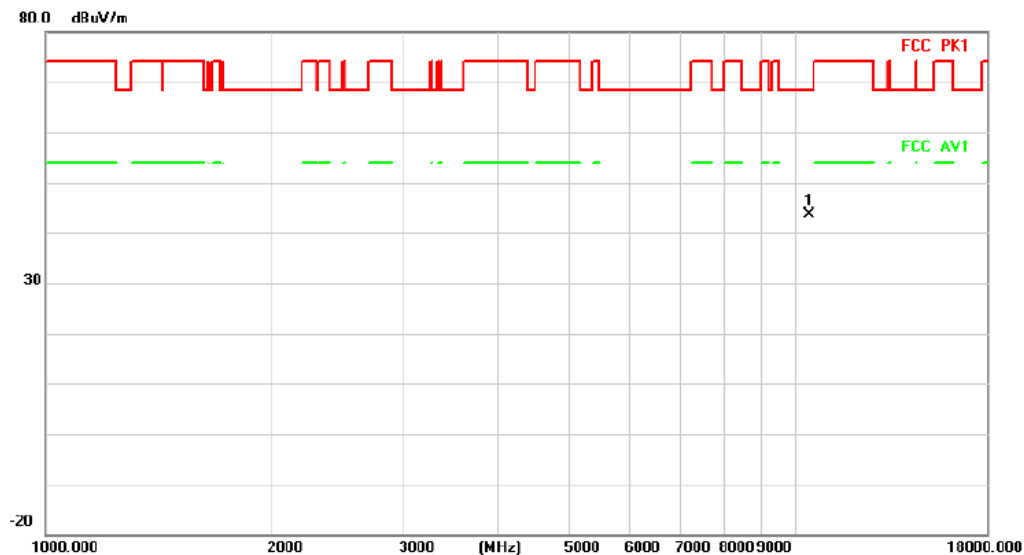
Radiated Emission



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	*	10400.000	34.48	6.55	41.03	68.20	-27.17	peak		

HORIZONTAL

Radiated Emission



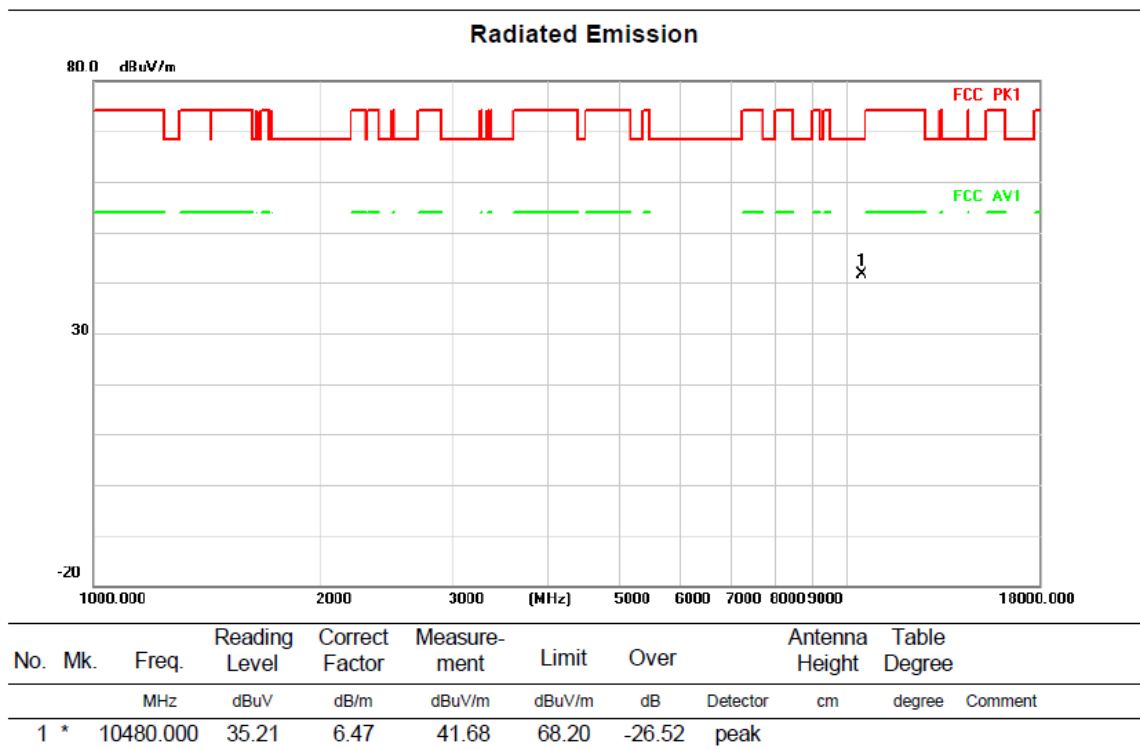
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	10400.000	37.04	6.55	43.59	68.20	-24.61	peak		

Above 1G (1GHz~18GHz)

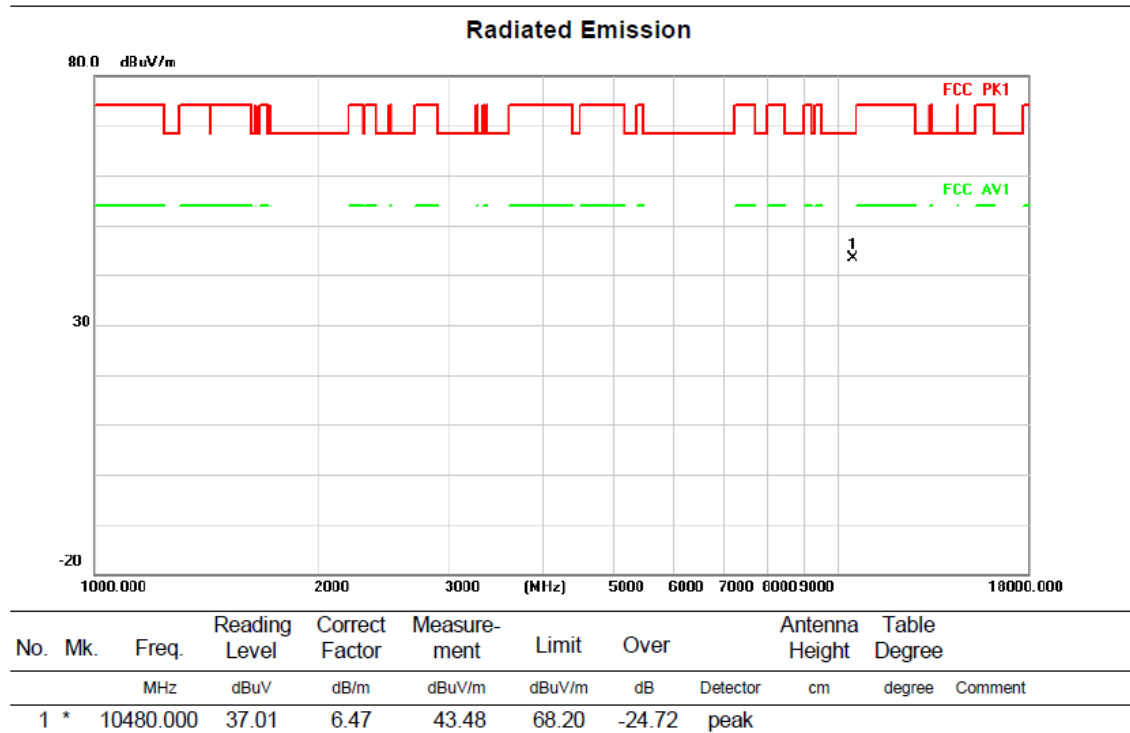
Test mode: 11N20MIMO

Test Channel:48

VERTICAL



HORIZONTAL



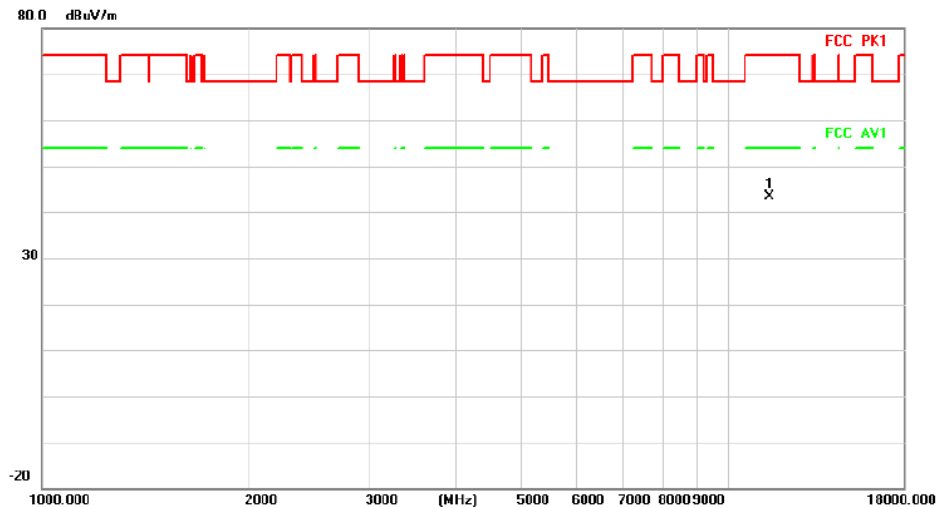
Above 1G (1GHz~18GHz)

Test mode: 11N20MIMO

Test Channel:149

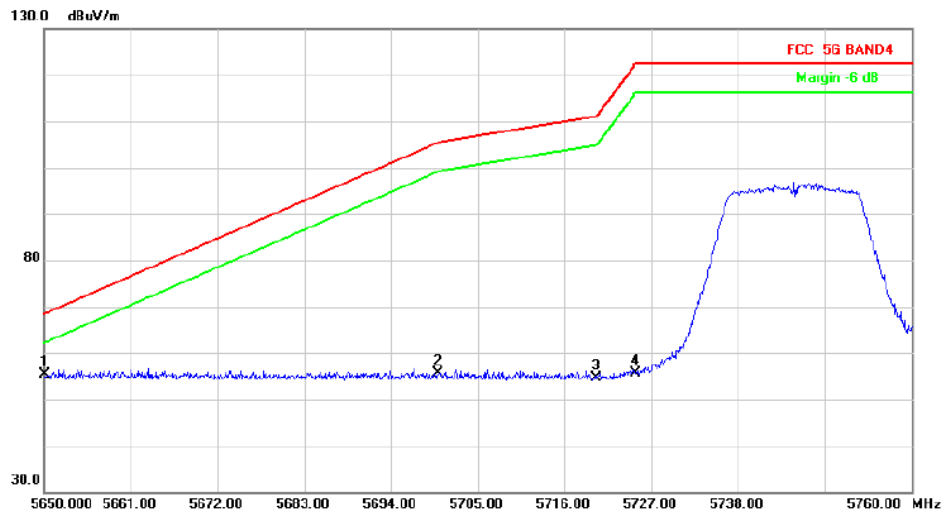
VERTICAL

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	*	11490.000	-5.84	49.26	43.42	74.00	-30.58 peak		

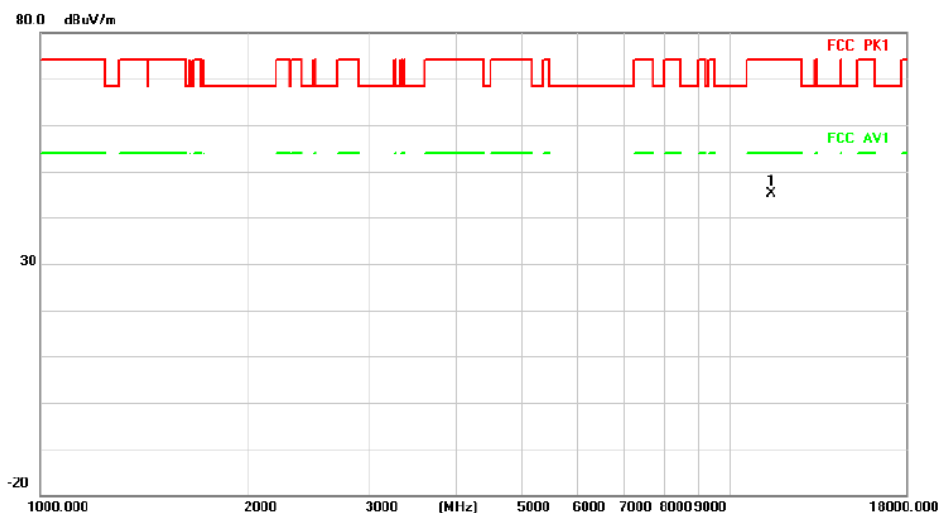
Radiated Emission



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	*	5650.000	46.33	9.16	55.49	68.20	-12.71 peak		
2		5700.000	46.63	9.10	55.73	105.20	-49.47 peak		
3		5720.000	45.51	9.08	54.59	110.80	-56.21 peak		
4		5725.000	46.67	9.08	55.75	122.20	-66.45 peak		

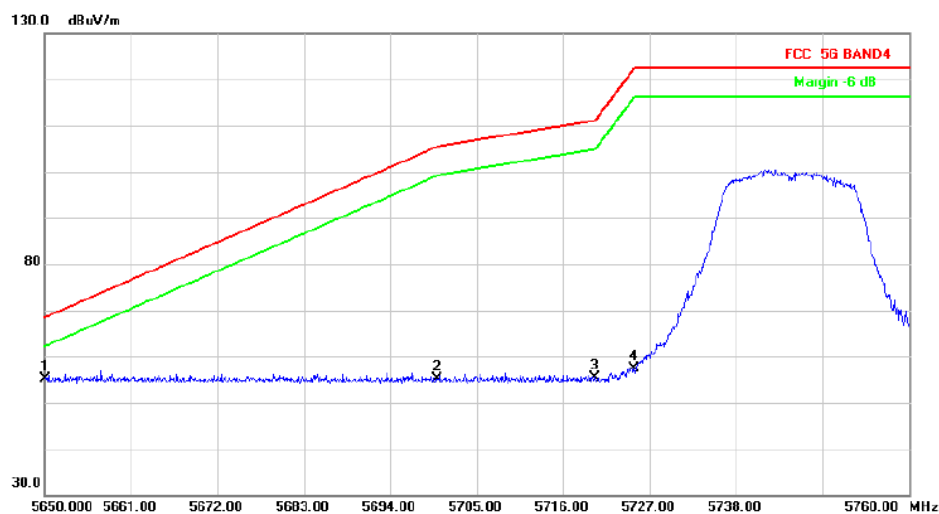
HORIZONTALA

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	cm	degree
1	*	11490.000	-4.22	49.26	45.04	74.00	-28.96	peak	

Radiated Emission



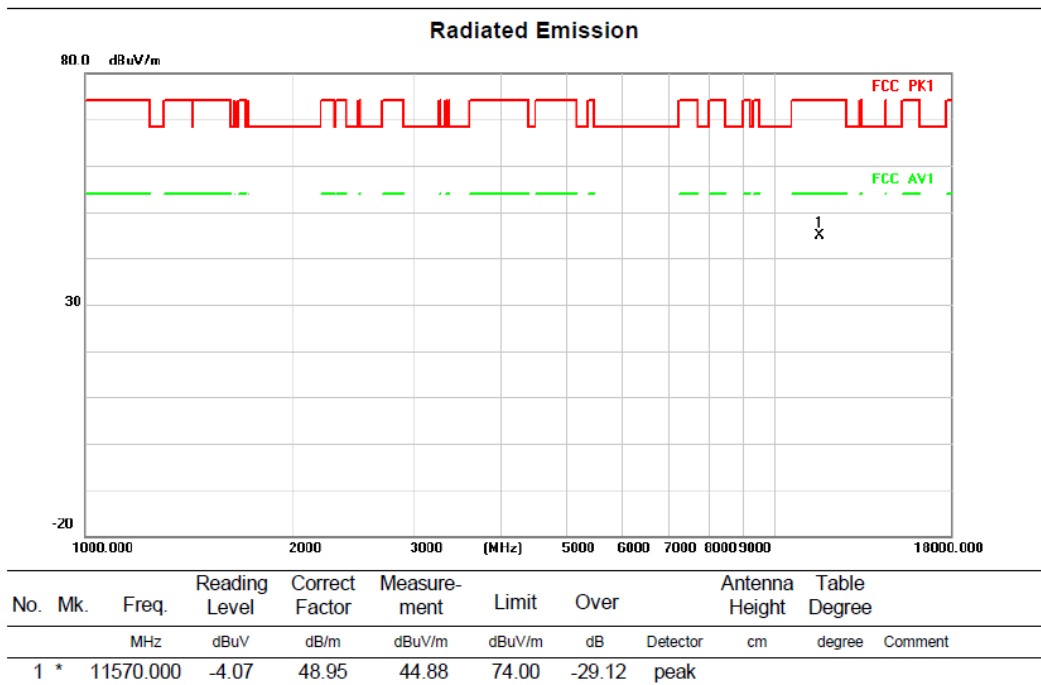
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	5650.000	45.86	9.16	55.02	68.20	-13.18	peak	
2		5700.000	46.01	9.10	55.11	105.20	-50.09	peak	
3		5720.000	46.38	9.08	55.46	110.80	-55.34	peak	
4		5725.000	48.25	9.08	57.33	122.20	-64.87	peak	

Above 1G (1GHz~18GHz)

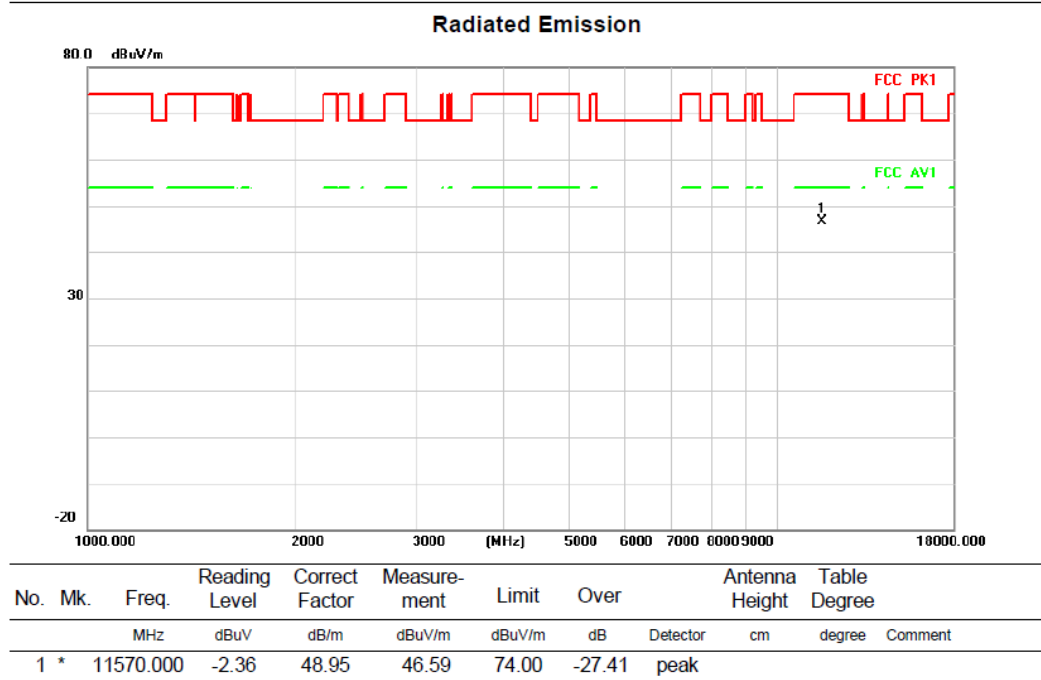
Test mode: 11N20MIMO

Test Channel:157

VERTICAL



HORIZONTAL

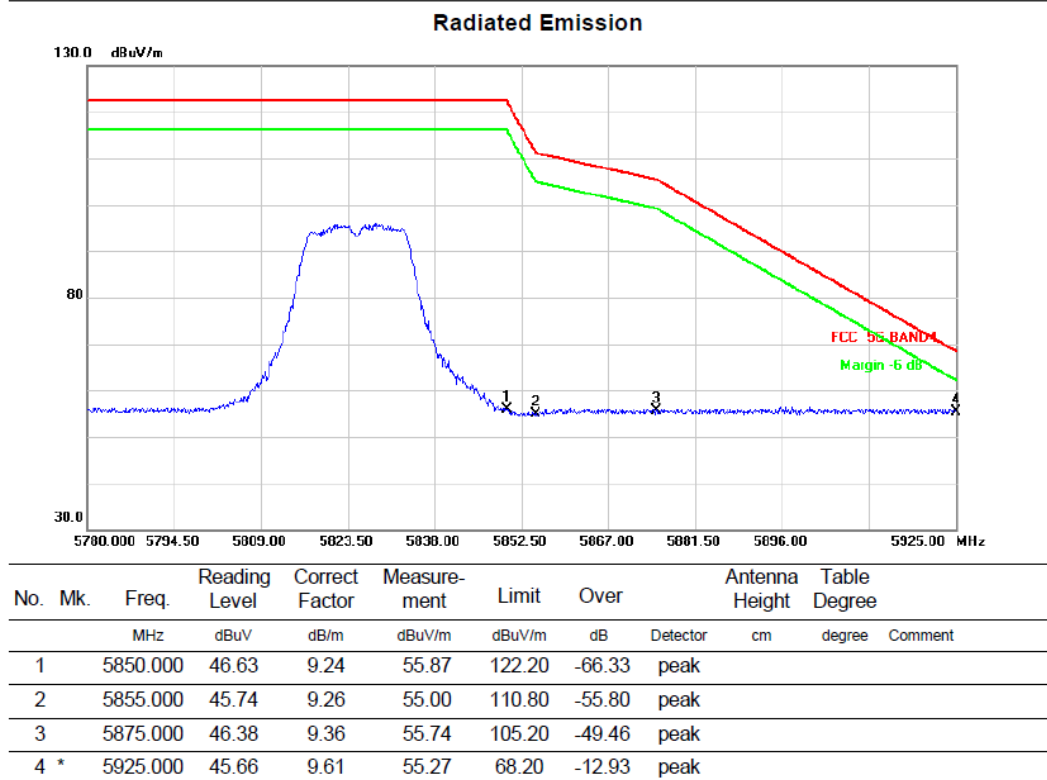
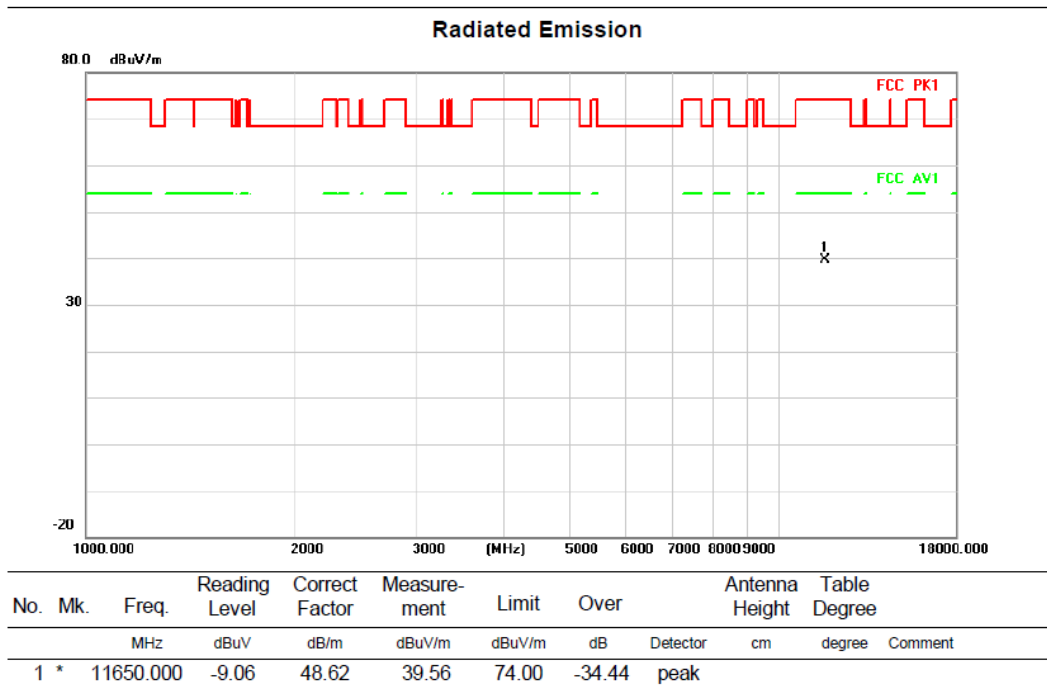


Above 1G (1GHz~18GHz)

Test mode: 11N20MIMO

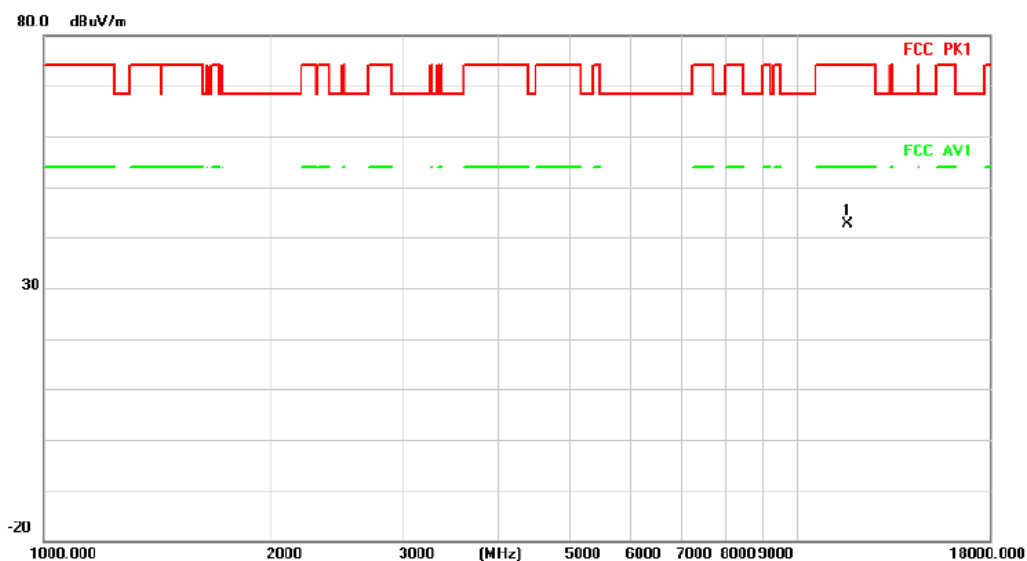
Test Channel:165

VERTICAL



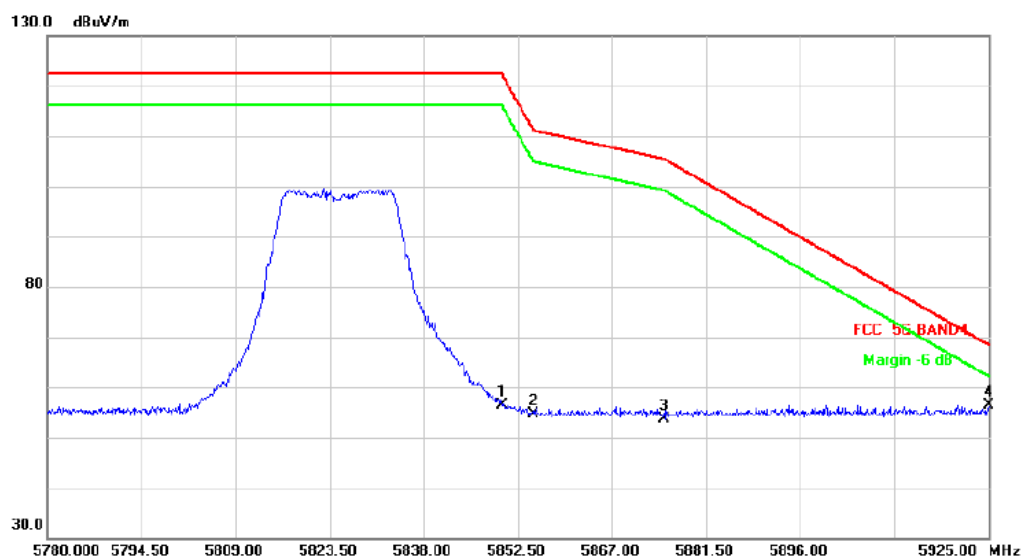
HORIZONTAL

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	*	11650.000	-5.87	48.62	42.75	74.00	-31.25	peak		

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		5850.000	47.08	9.24	56.32	122.20	-65.88	peak		
2		5855.000	45.43	9.26	54.69	110.80	-56.11	peak		
3		5875.000	44.36	9.36	53.72	105.20	-51.48	peak		
4	*	5925.000	46.66	9.61	56.27	68.20	-11.93	peak		

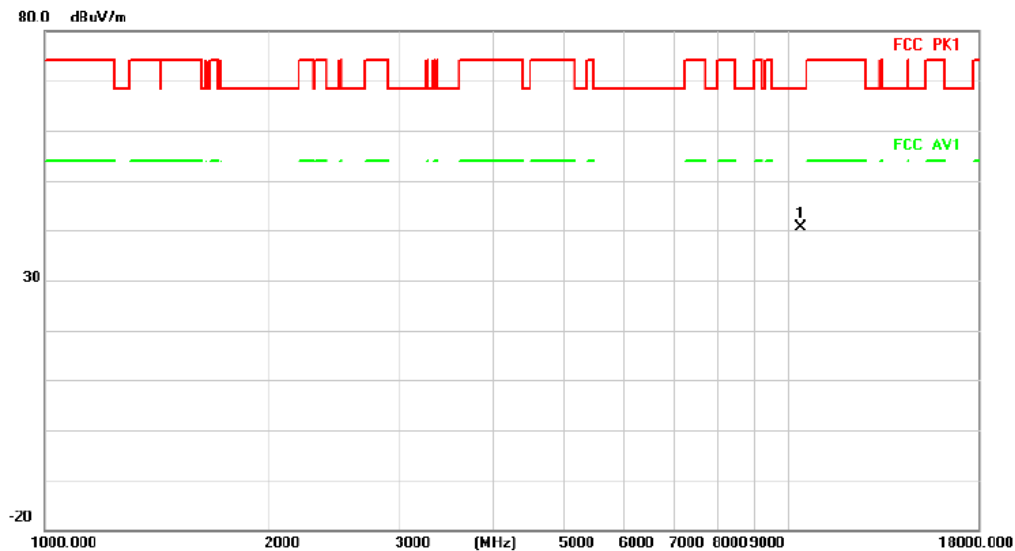
Above 1G (1GHz~18GHz)

Test mode: 11N40MIMO

Test Channel:38

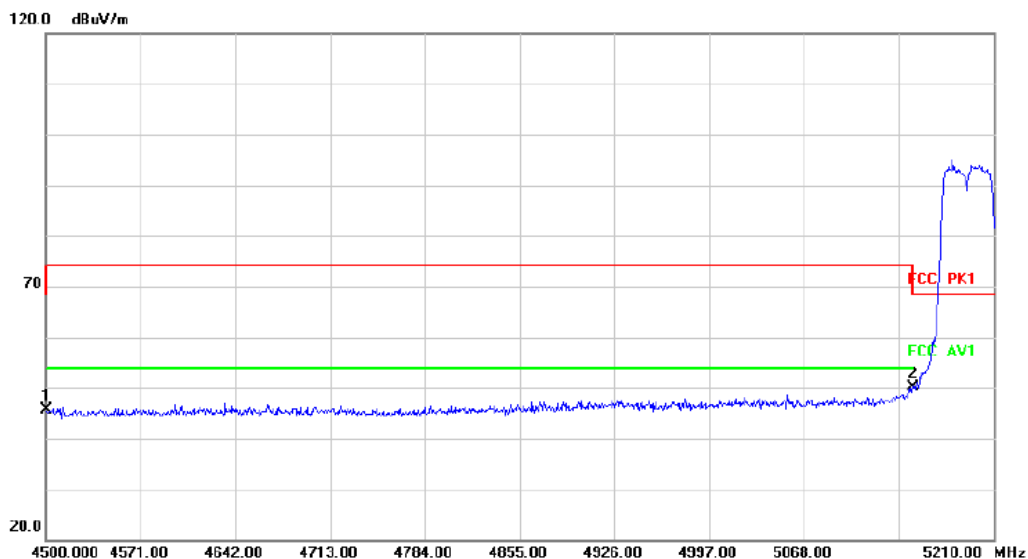
VERTICAL

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	*	10380.000	33.78	6.80	40.58	68.20	-27.62 peak		

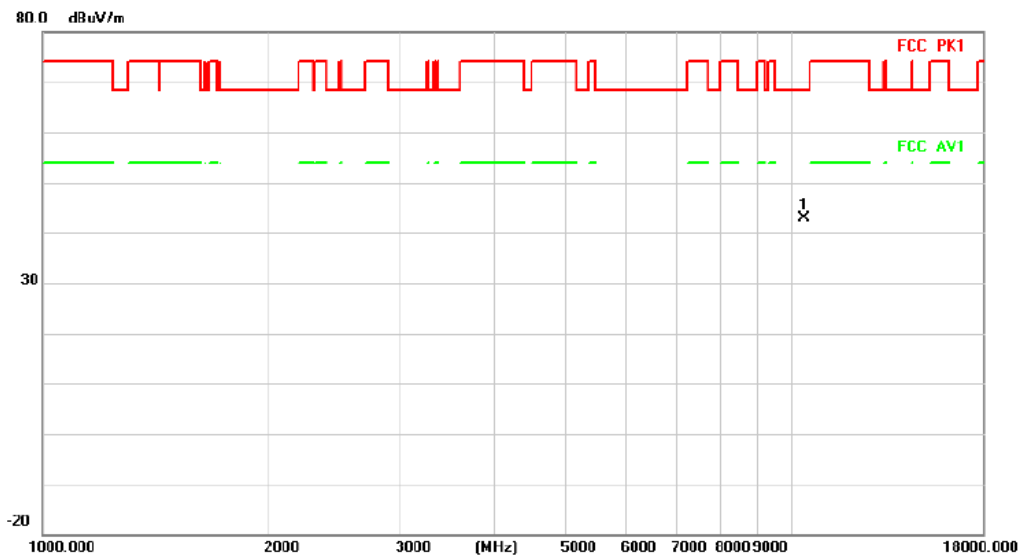
Radiated Emission



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		4500.000	38.53	7.17	45.70	68.20	-22.50 peak		
2	*	5150.000	41.06	9.17	50.23	68.20	-17.97 peak		

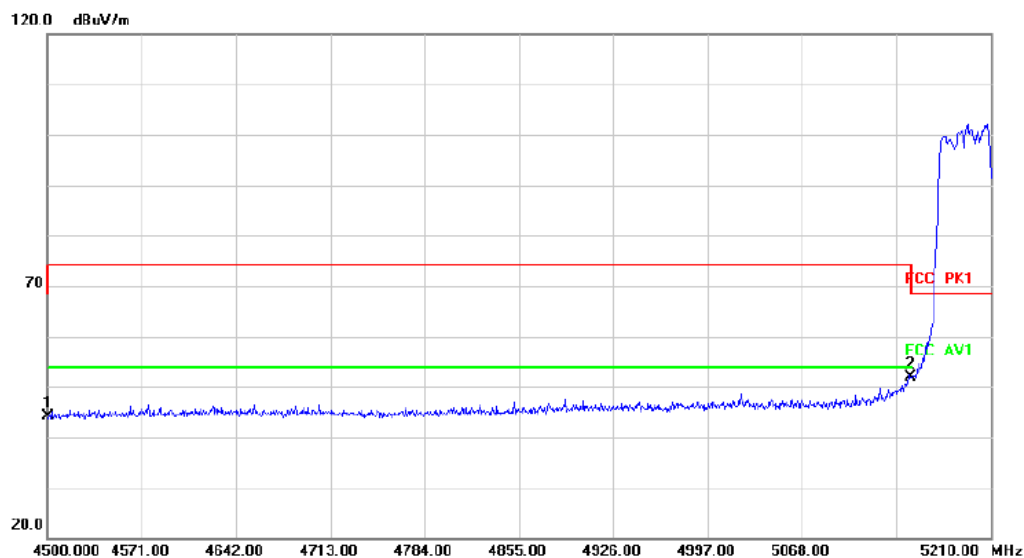
HORIZONTAL

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	*	10380.000	36.11	6.80	42.91	68.20	-25.29	peak		

Radiated Emission



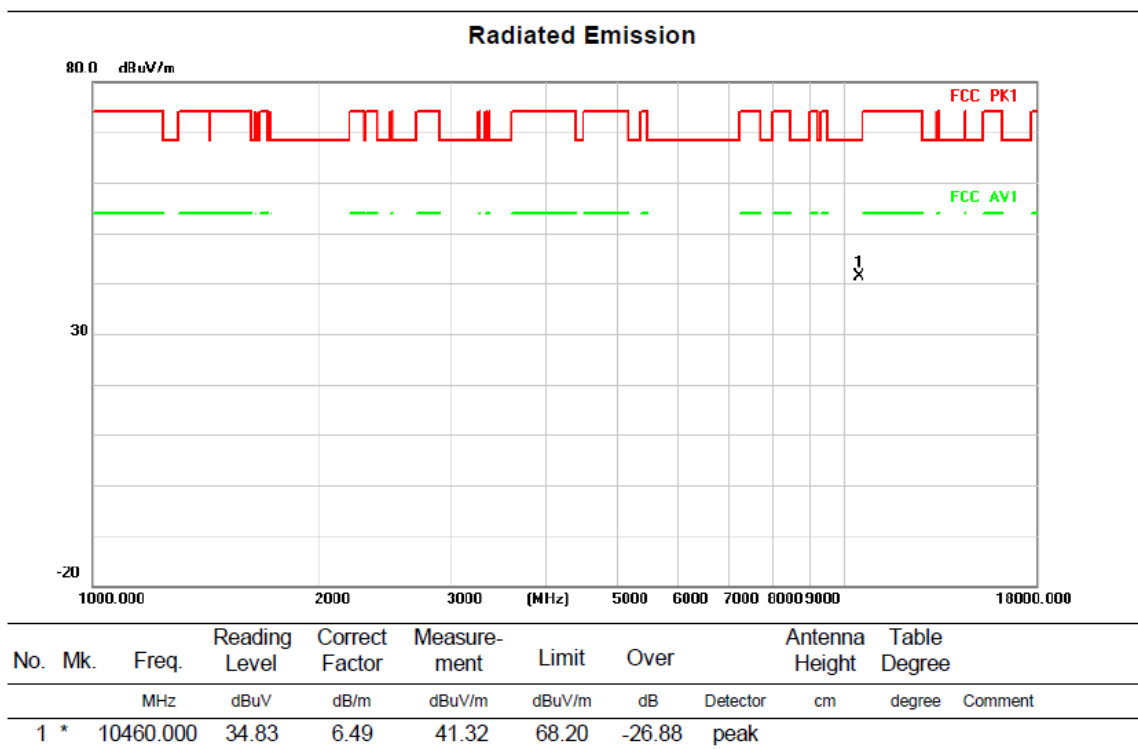
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4500.000	36.87	7.17	44.04	68.20	-24.16	peak		
2	*	5150.000	42.68	9.17	51.85	68.20	-16.35	peak		

Above 1G (1GHz~18GHz)

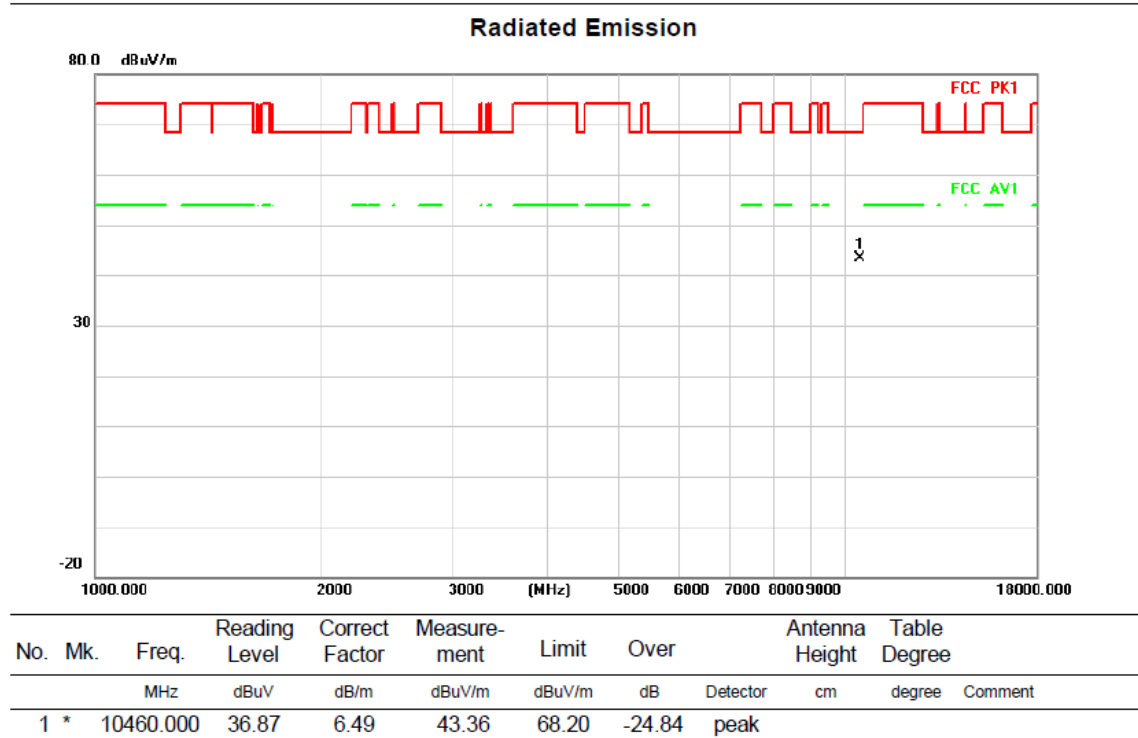
Test mode: 11N40MIMO

Test Channel:46

VERTICAL



HORIZONTAL

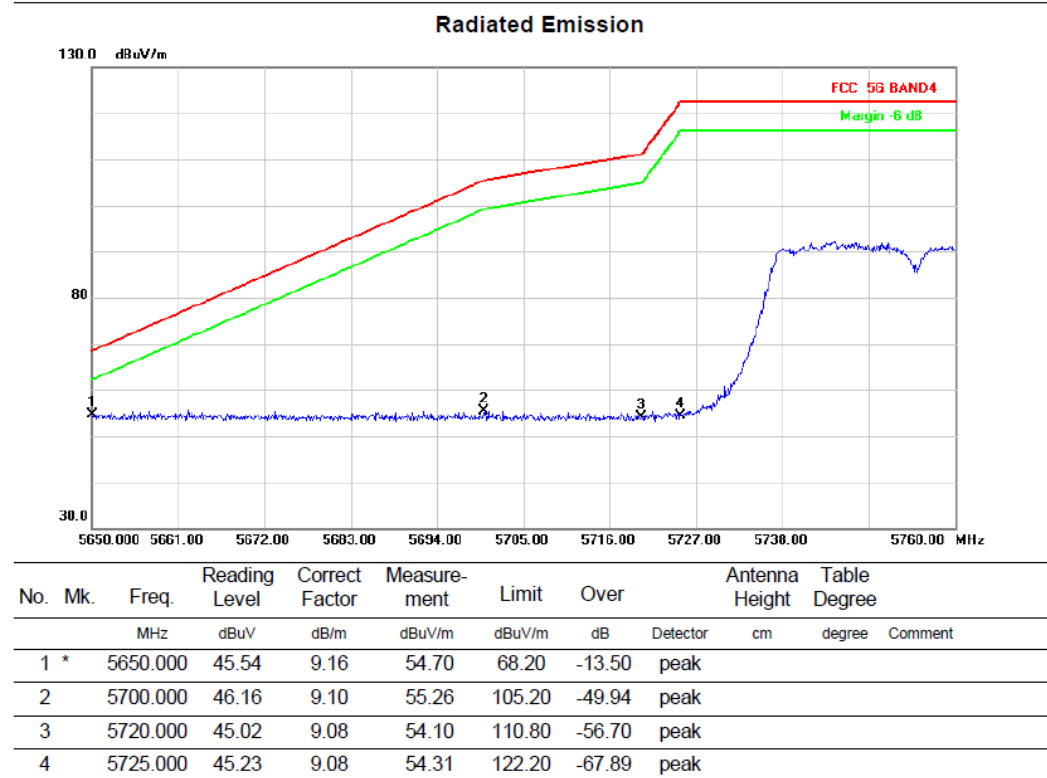
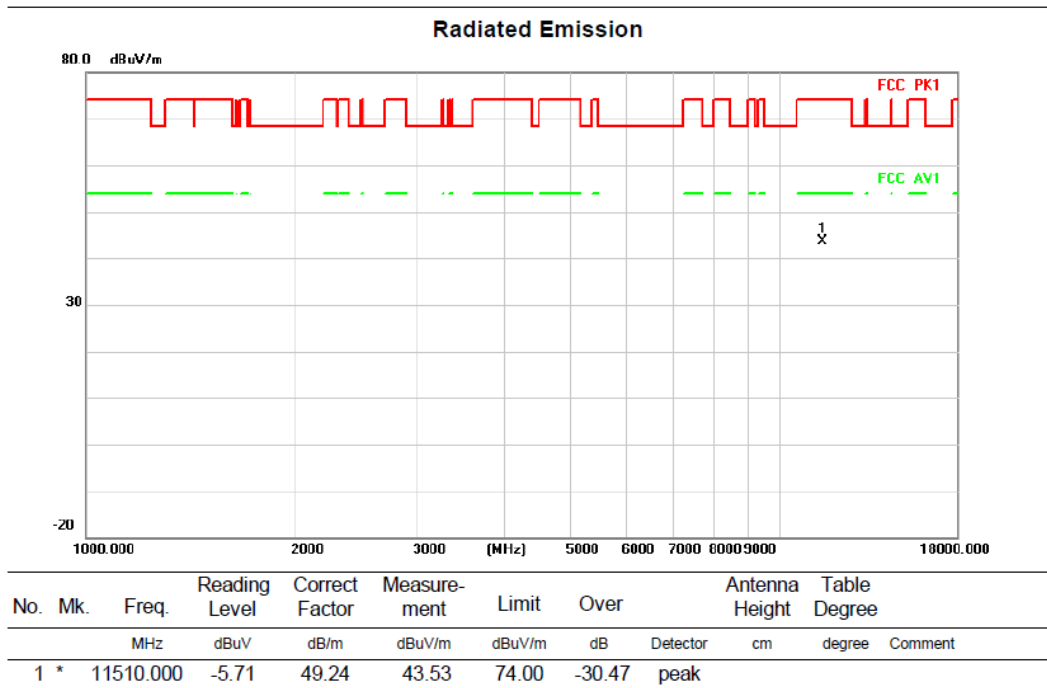


Above 1G (1GHz~18GHz)

Test mode: 11N40MIMO

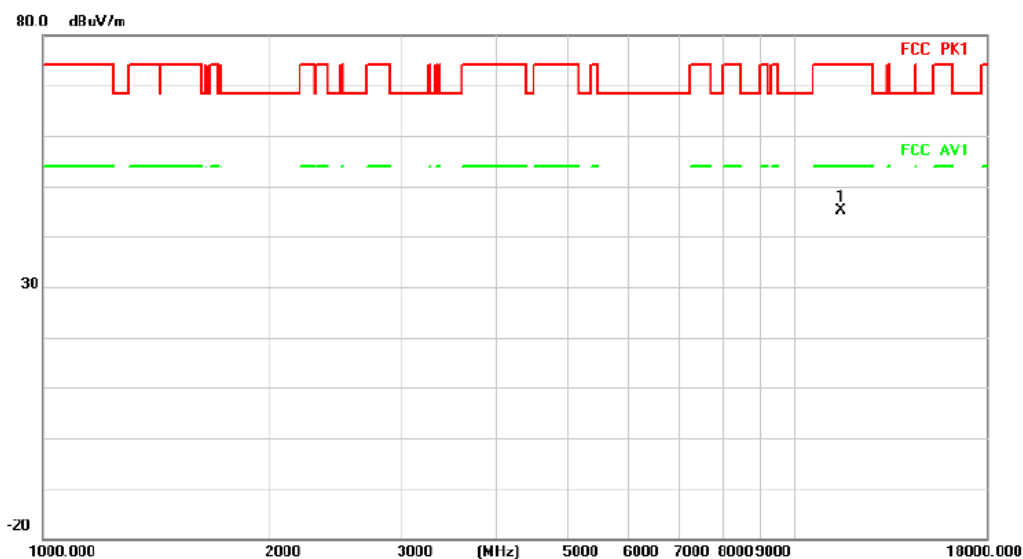
Test Channel:151

VERTICAL



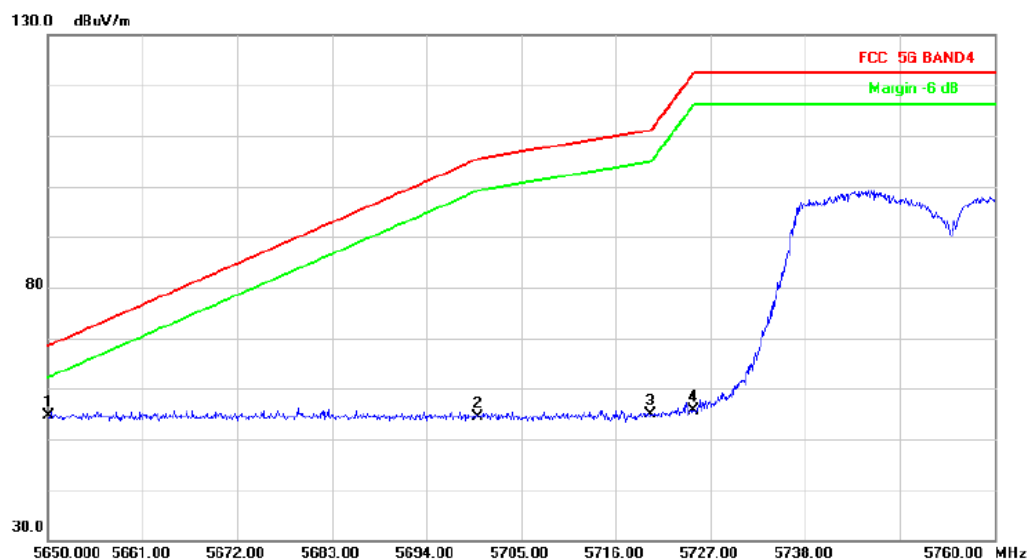
HORIZONTAL

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	*	11510.000	-4.01	49.24	45.23	74.00	-28.77	peak		

Radiated Emission



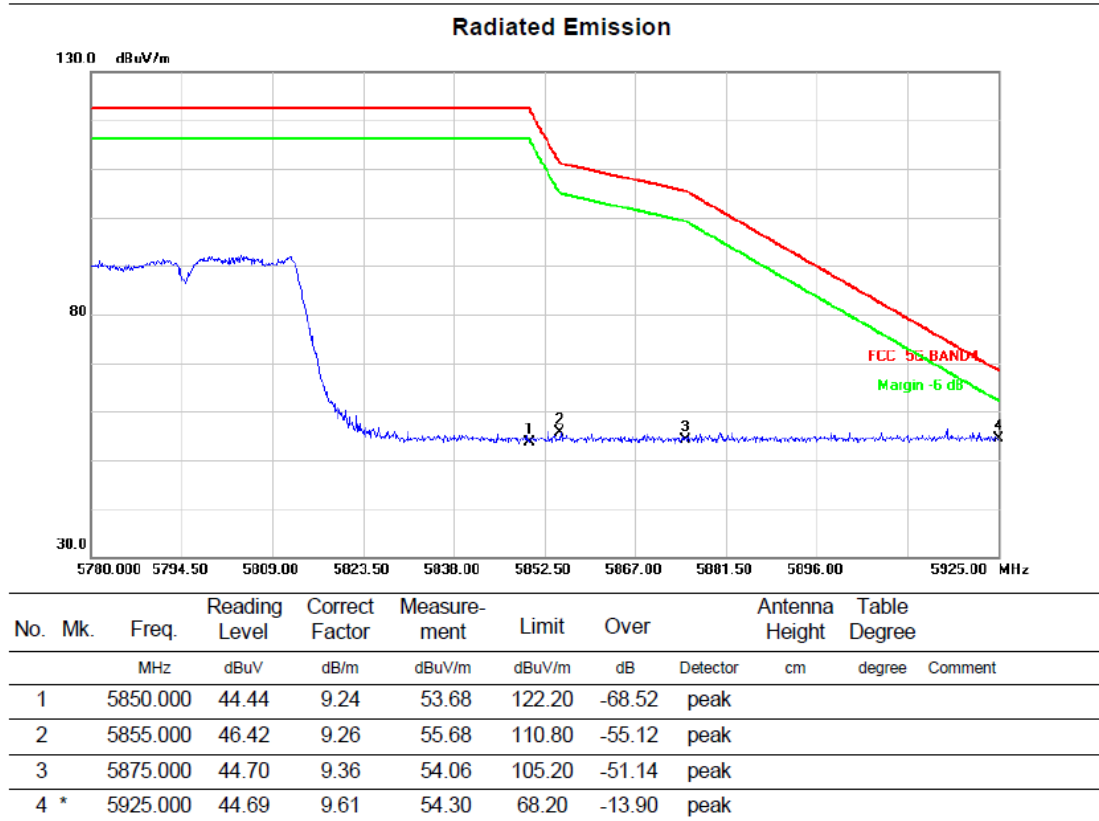
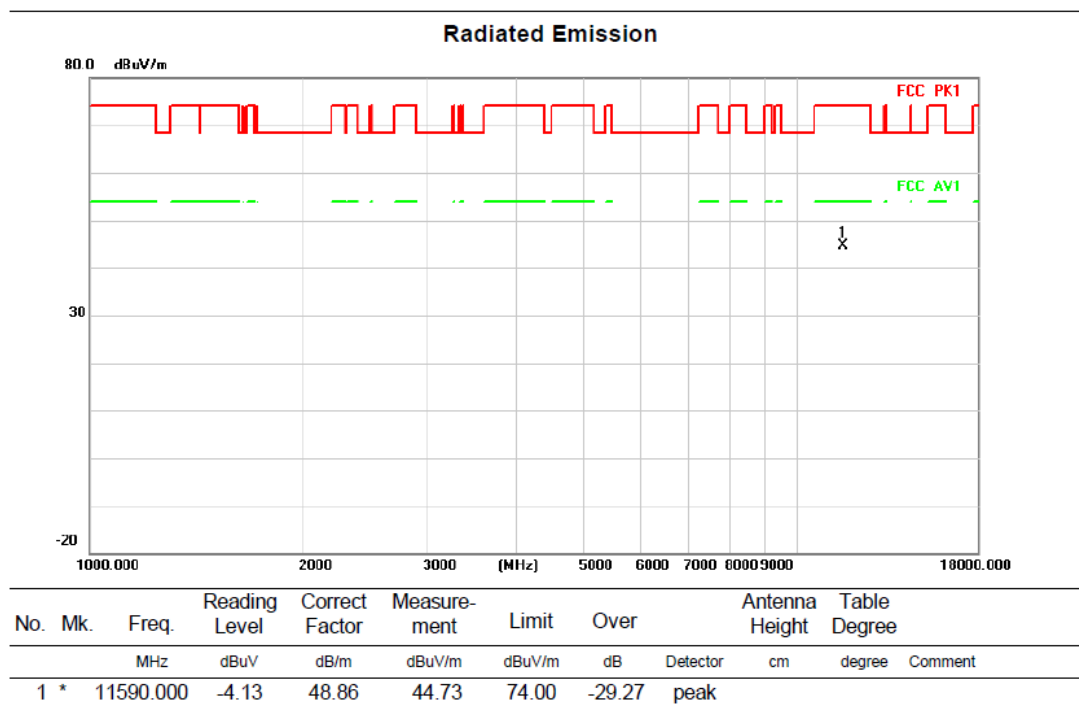
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5650.000	45.37	9.16	54.53	68.20	-13.67	peak		
2		5700.000	45.26	9.10	54.36	105.20	-50.84	peak		
3		5720.000	45.81	9.08	54.89	110.80	-55.91	peak		
4		5725.000	46.45	9.08	55.53	122.20	-66.67	peak		

Above 1G (1GHz~18GHz)

Test mode: 11N40MIMO

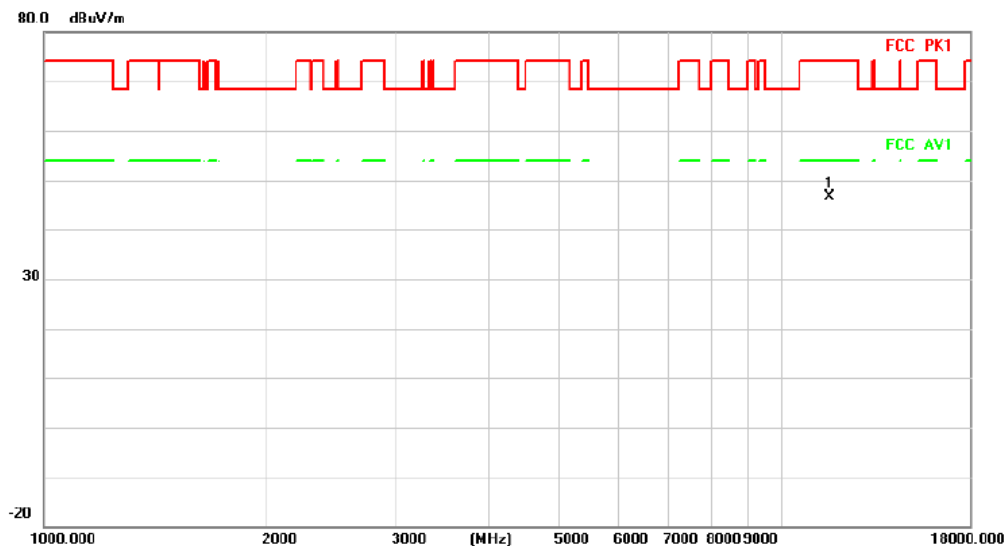
Test Channel:159

VERTICAL



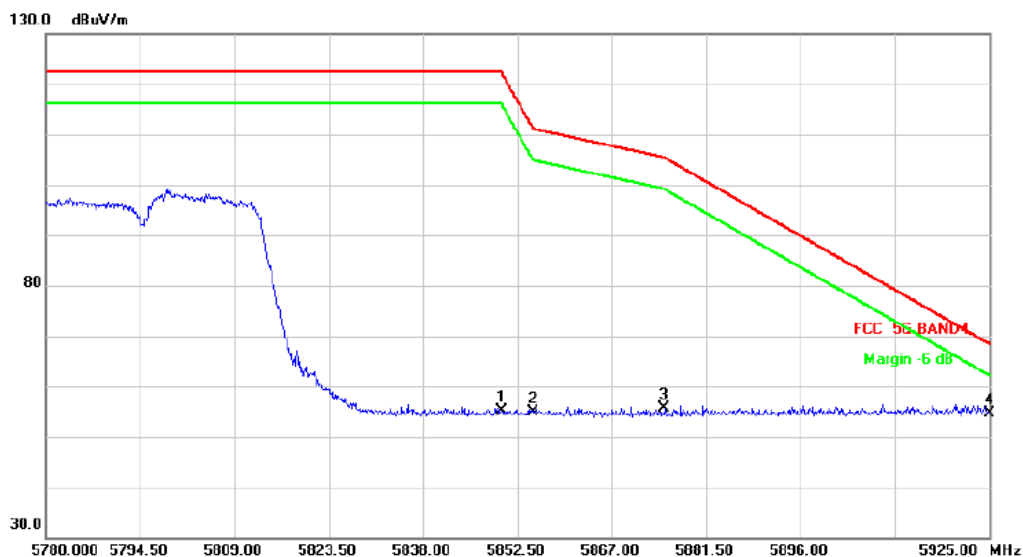
HORIZONTAL

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	*	11590.000	-2.26	48.86	46.60	74.00	-27.40	peak	

Radiated Emission



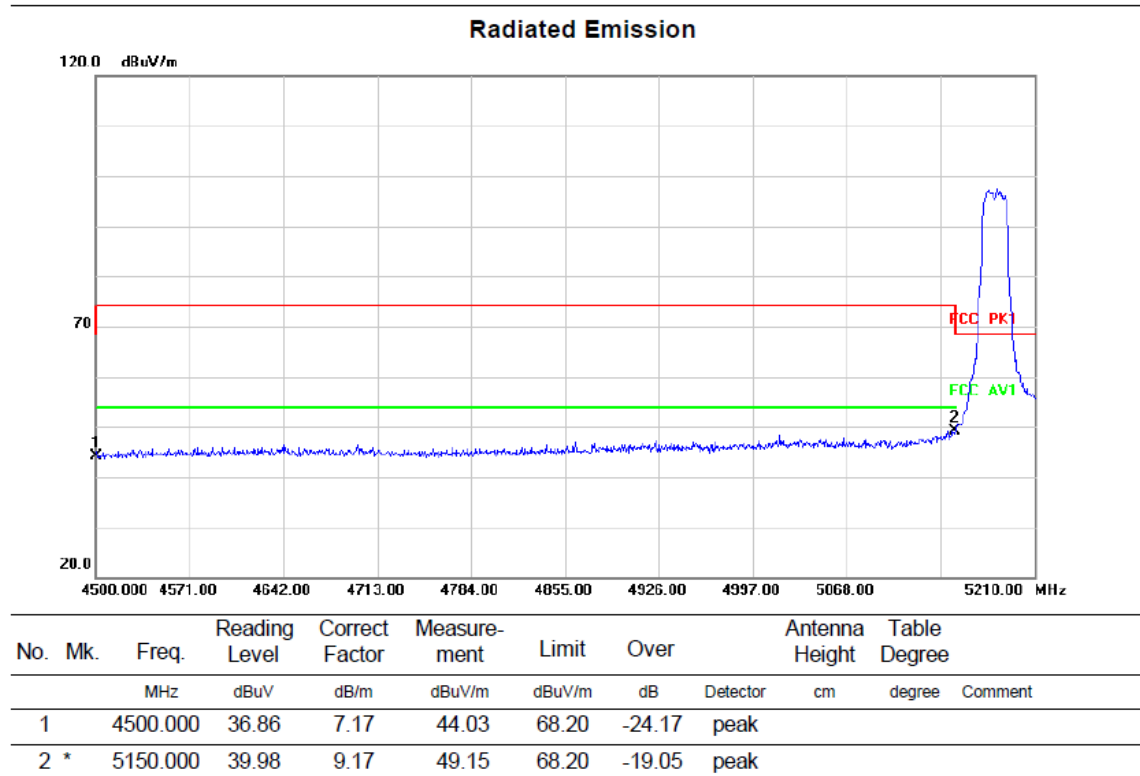
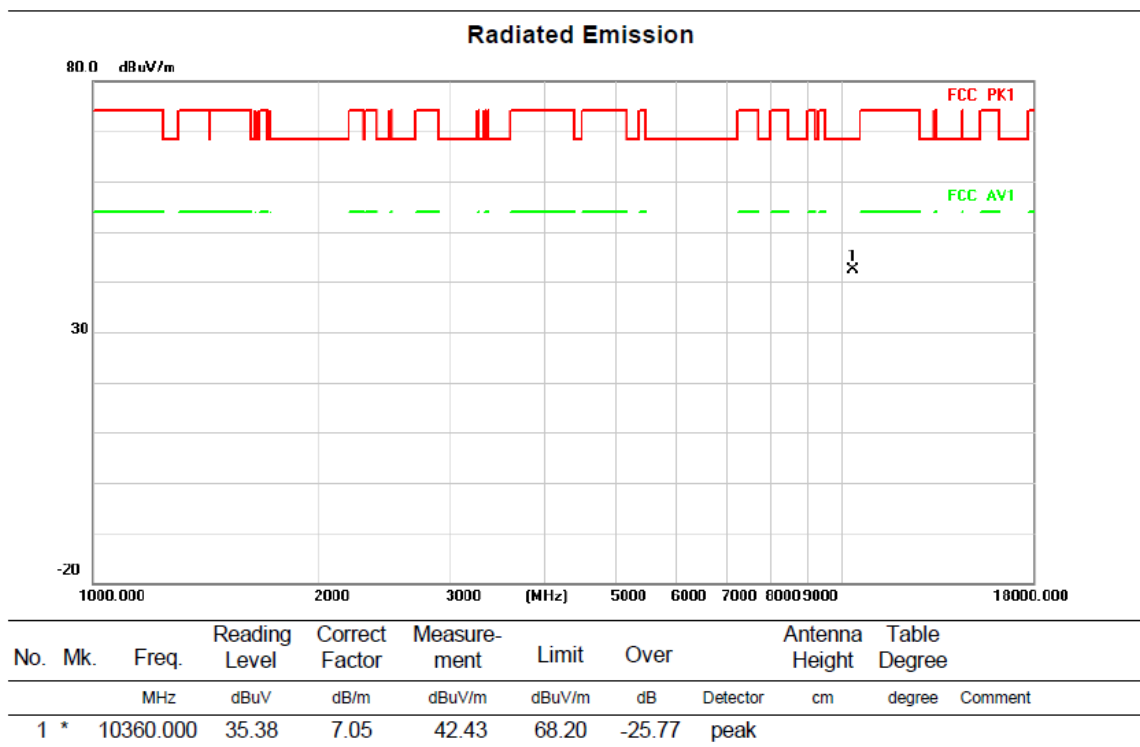
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		5850.000	45.84	9.24	55.08	122.20	-67.12	peak	
2		5855.000	45.56	9.26	54.82	110.80	-55.98	peak	
3		5875.000	46.27	9.36	55.63	105.20	-49.57	peak	
4	*	5925.000	44.91	9.61	54.52	68.20	-13.68	peak	

Above 1G (1GHz~18GHz)

Test mode: 11AC20MIMO

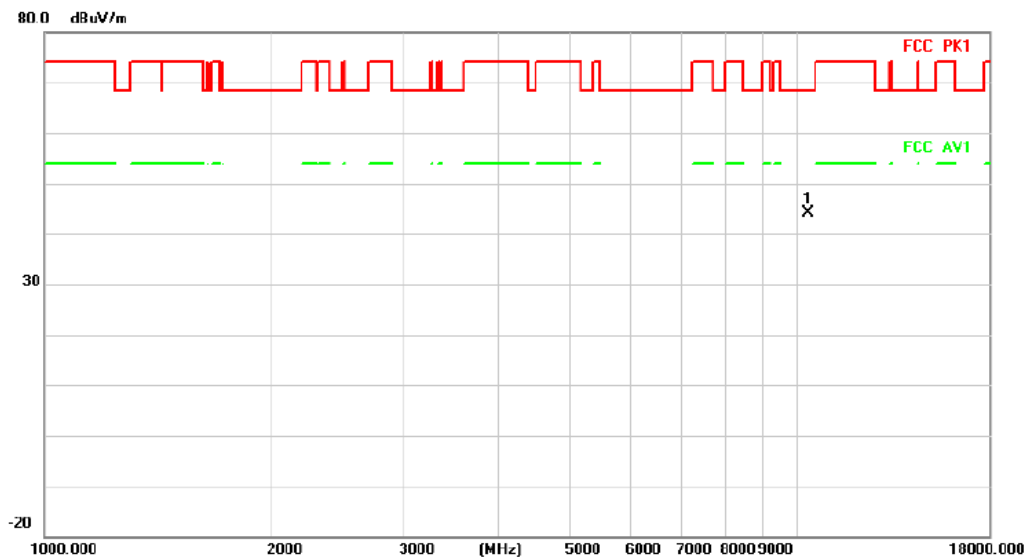
Test Channel:36

VERTICAL



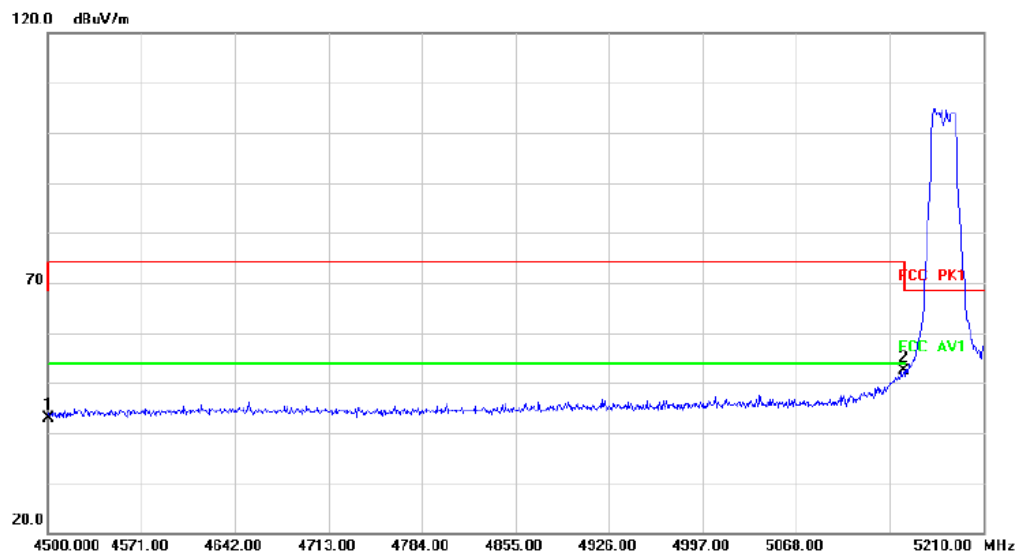
HORIZONTAL

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	*	10360.000	37.09	7.05	44.14	68.20	-24.06	peak		

Radiated Emission



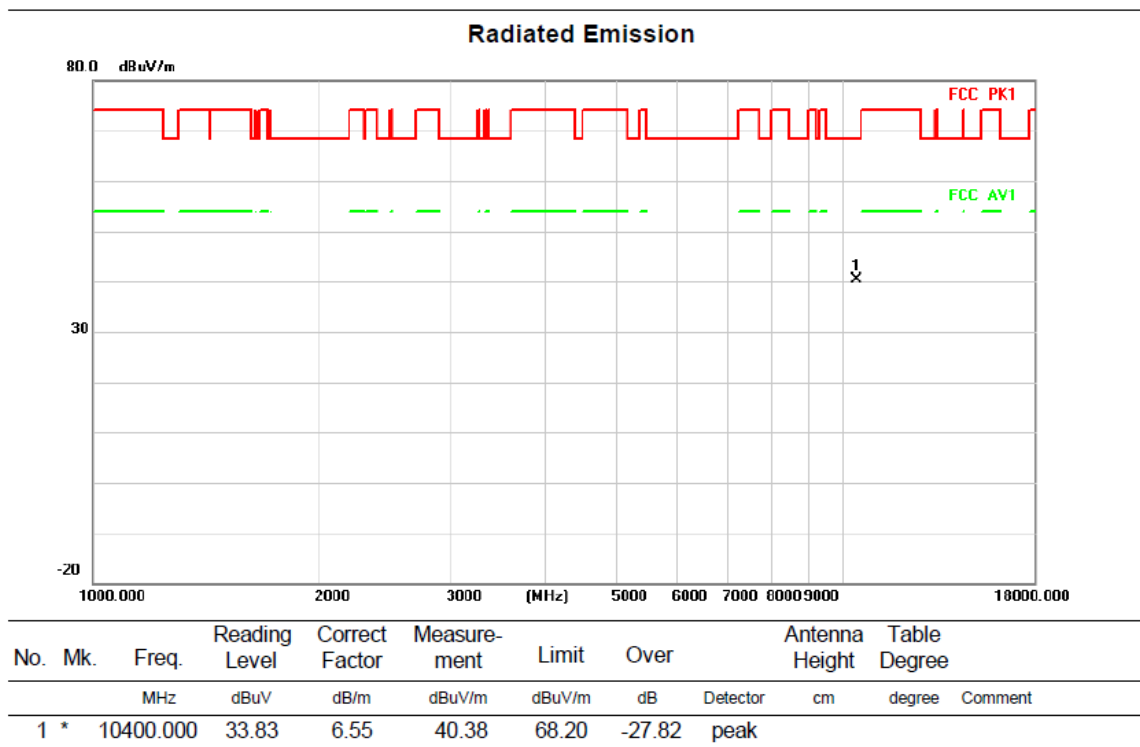
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4500.000	35.70	7.17	42.87	68.20	-25.33	peak		
2	*	5150.000	43.22	9.17	52.39	68.20	-15.81	peak		

Above 1G (1GHz~18GHz)

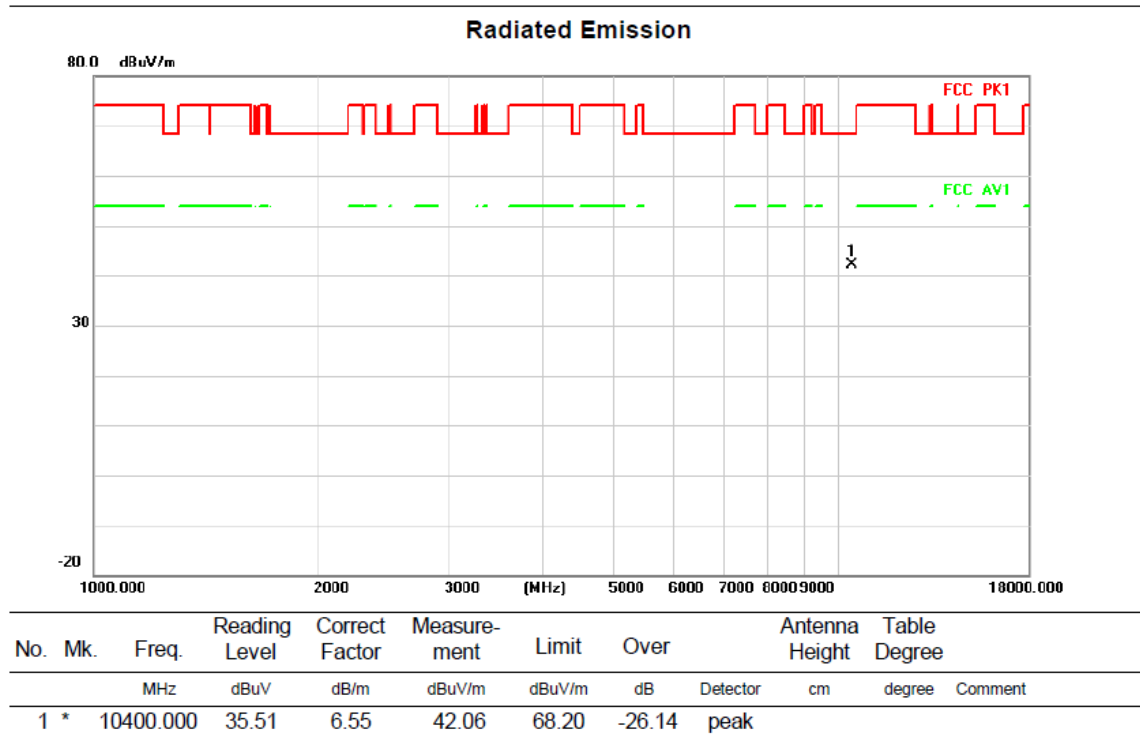
Test mode: 11AC20MIMO

Test Channel:40

VERTICAL



HORIZONTAL

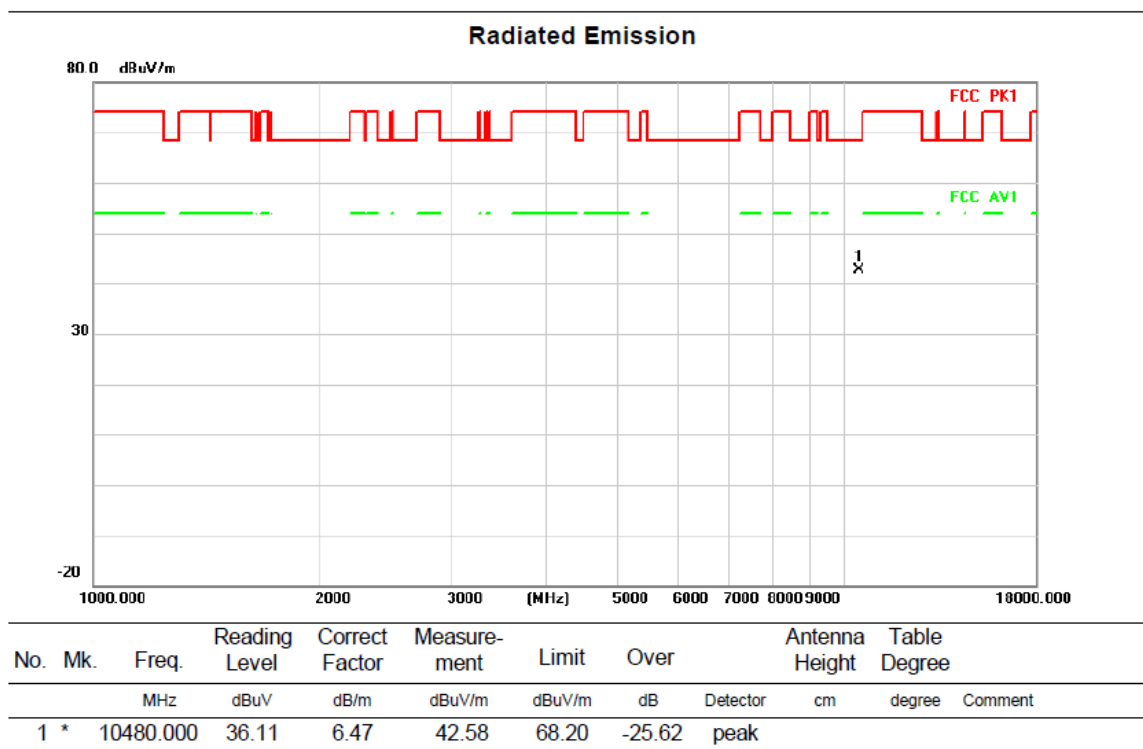


Above 1G (1GHz~18GHz)

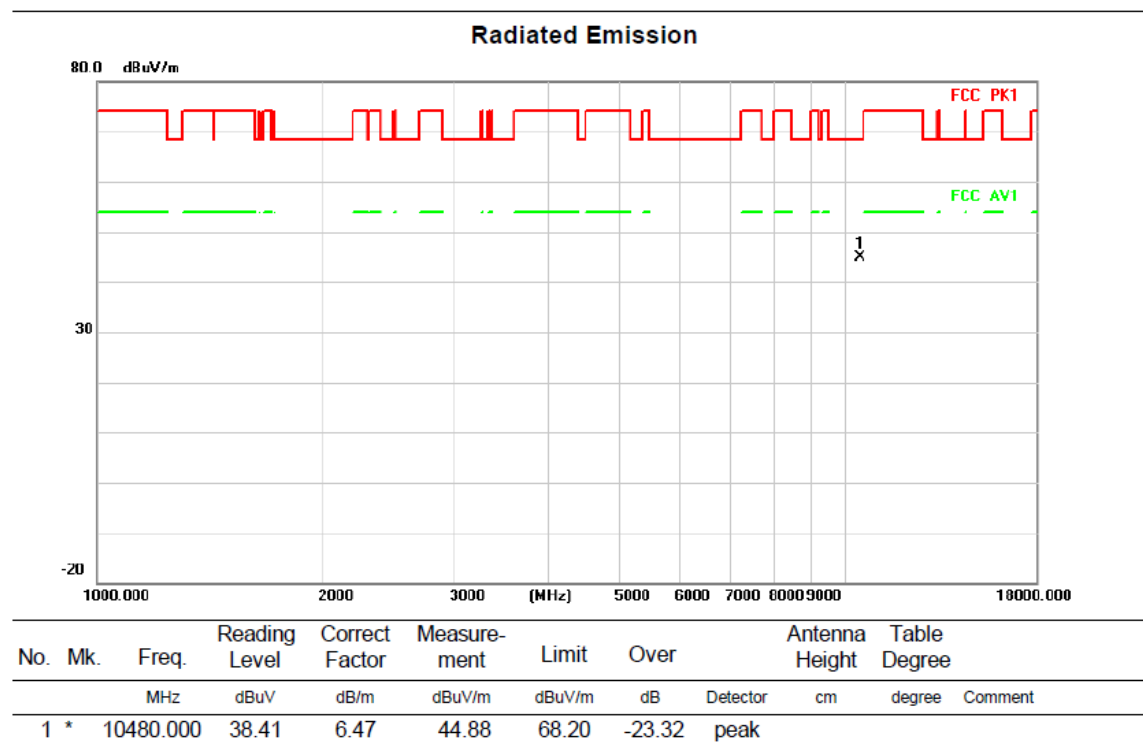
Test mode: 11AC20MIMO

Test Channel:48

VERTICAL



HORIZONTAL



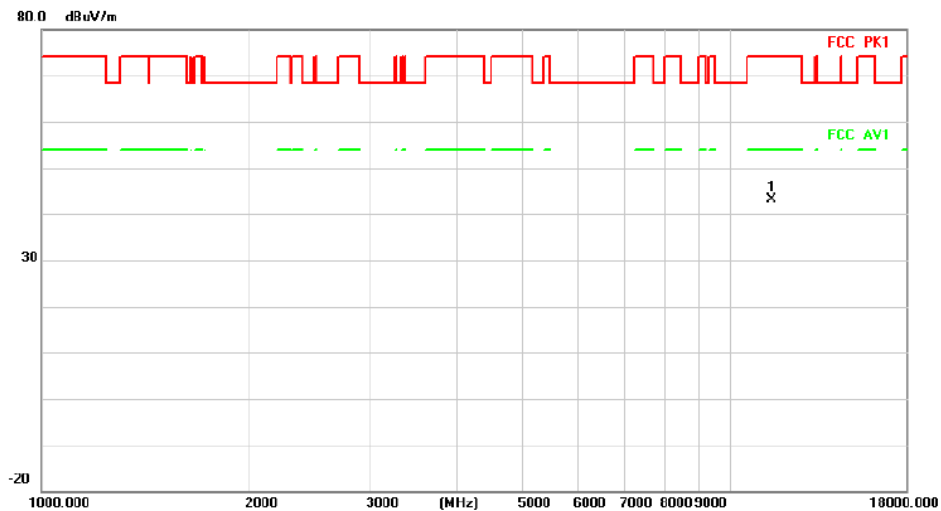
Above 1G (1GHz~18GHz)

Test mode: 11AC20MIMO

Test Channel:149

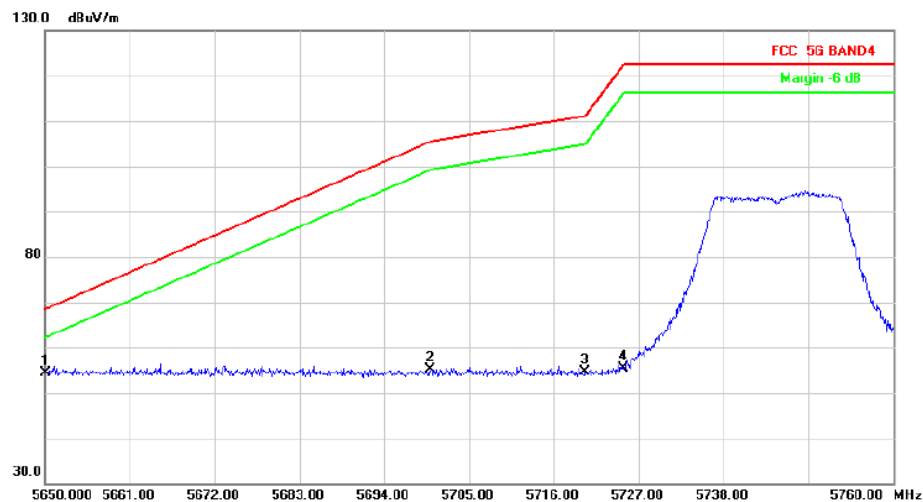
VERTICAL

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	*	11490.000	-6.07	49.26	43.19	74.00	-30.81 peak		

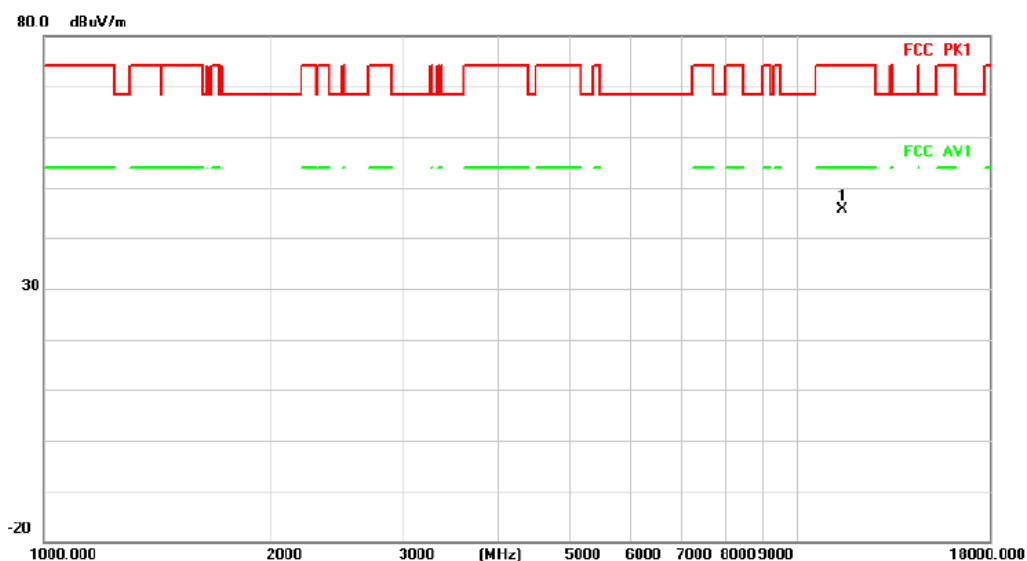
Radiated Emission



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	*	5650.000	45.18	9.16	54.34	68.20	-13.86 peak		
2		5700.000	46.10	9.10	55.20	105.20	-50.00 peak		
3		5720.000	45.65	9.08	54.73	110.80	-56.07 peak		
4		5725.000	46.40	9.08	55.48	122.20	-66.72 peak		

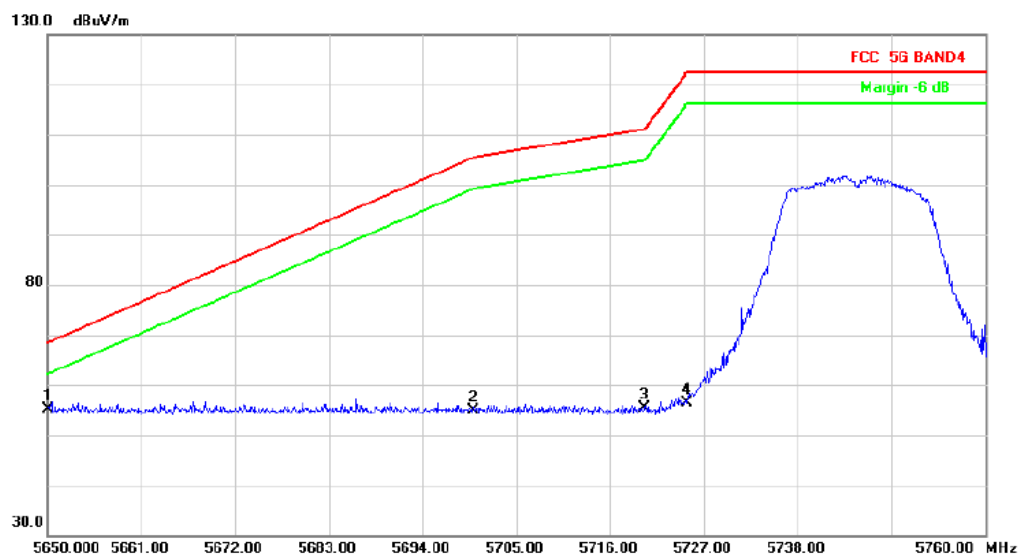
HORIZONTAL

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	*	11490.000	-3.56	49.26	45.70	74.00	-28.30	peak		

Radiated Emission



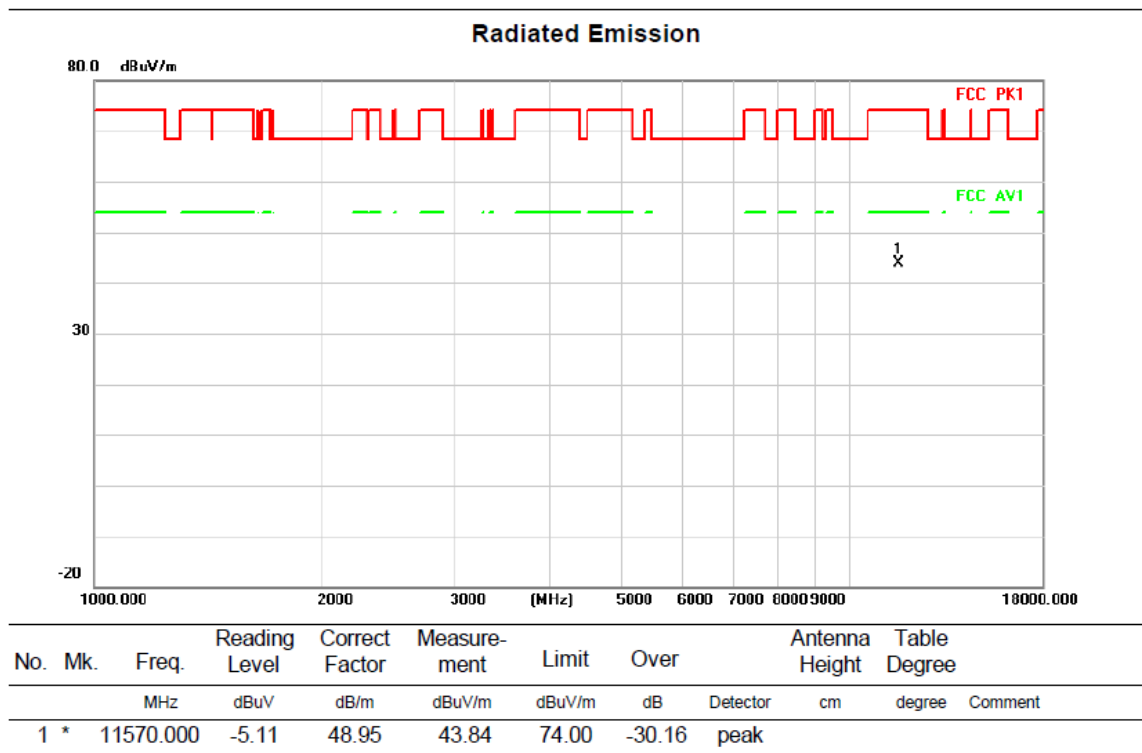
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5650.000	45.94	9.16	55.10	68.20	-13.10	peak		
2		5700.000	45.70	9.10	54.80	105.20	-50.40	peak		
3		5720.000	46.20	9.08	55.28	110.80	-55.52	peak		
4		5725.000	47.26	9.08	56.34	122.20	-65.86	peak		

Above 1G (1GHz~18GHz)

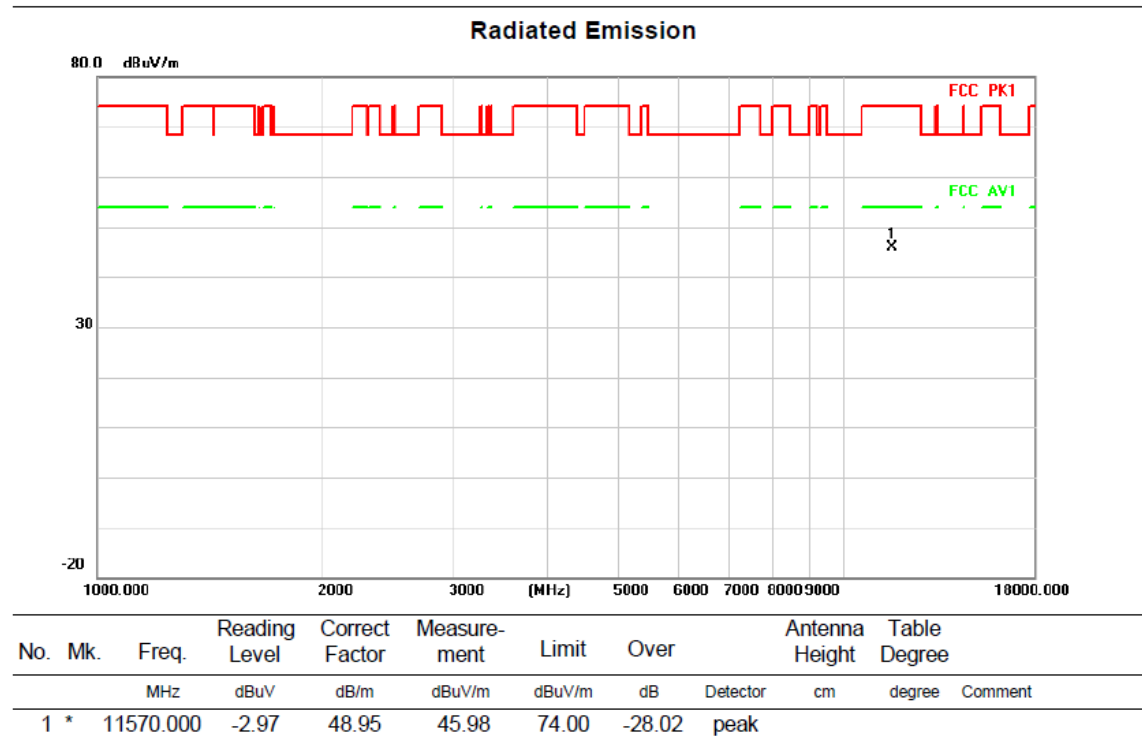
Test mode: 11AC20MIMO

Test Channel:157

VERTICAL



HORIZONTAL

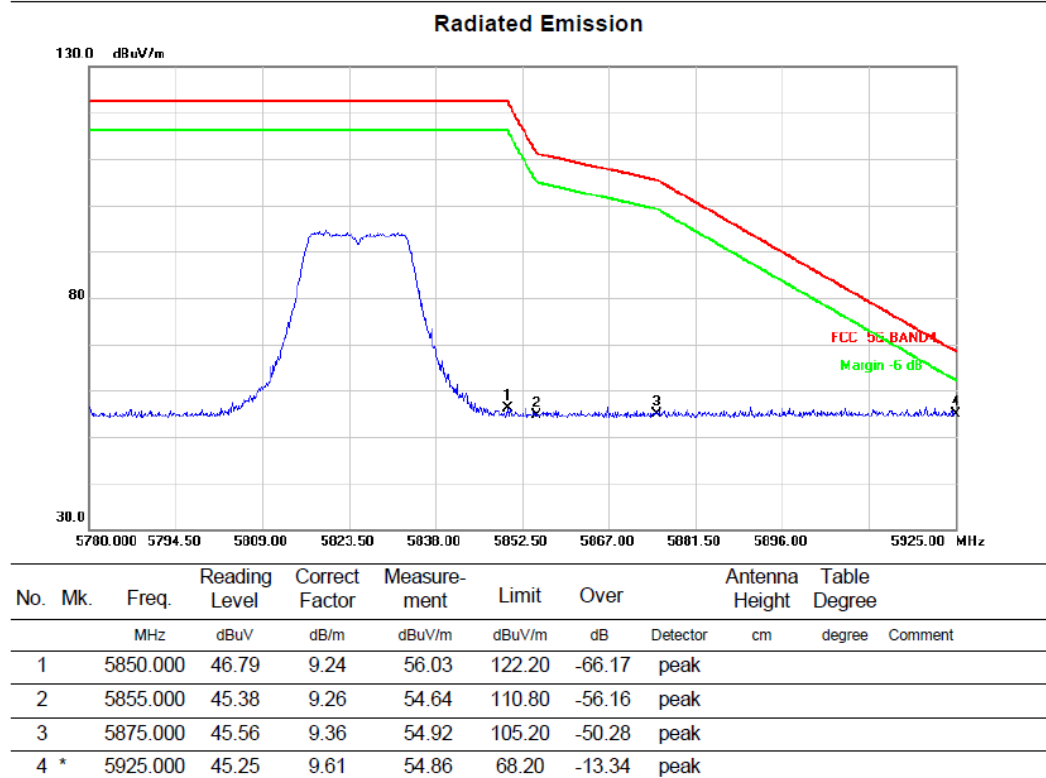
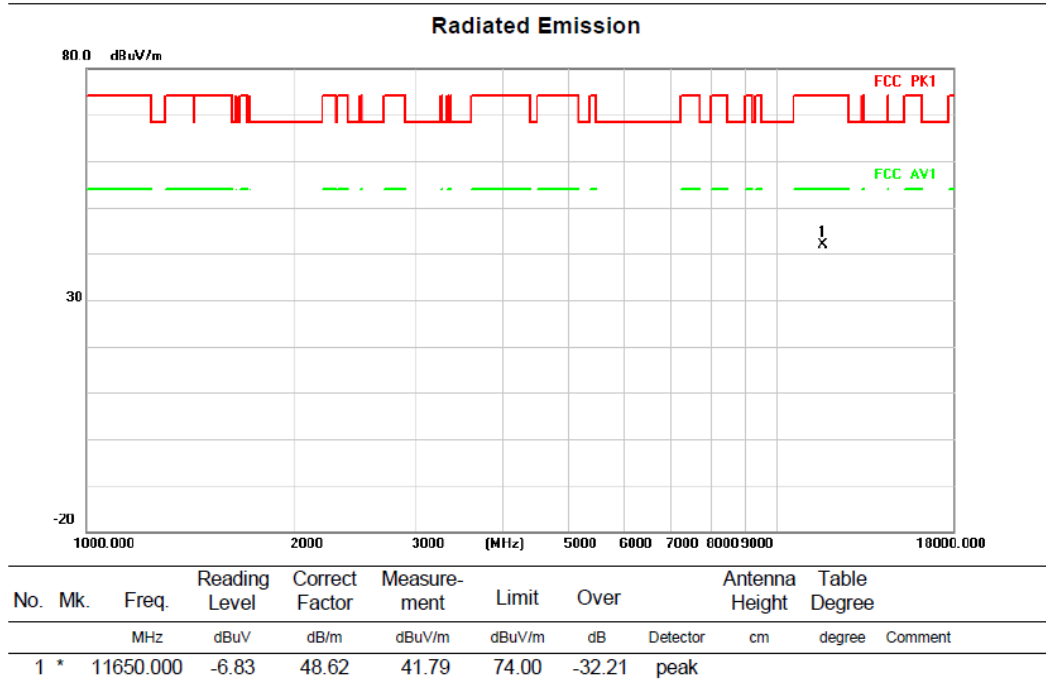


Above 1G (1GHz~18GHz)

Test mode: 11AC20MIMO

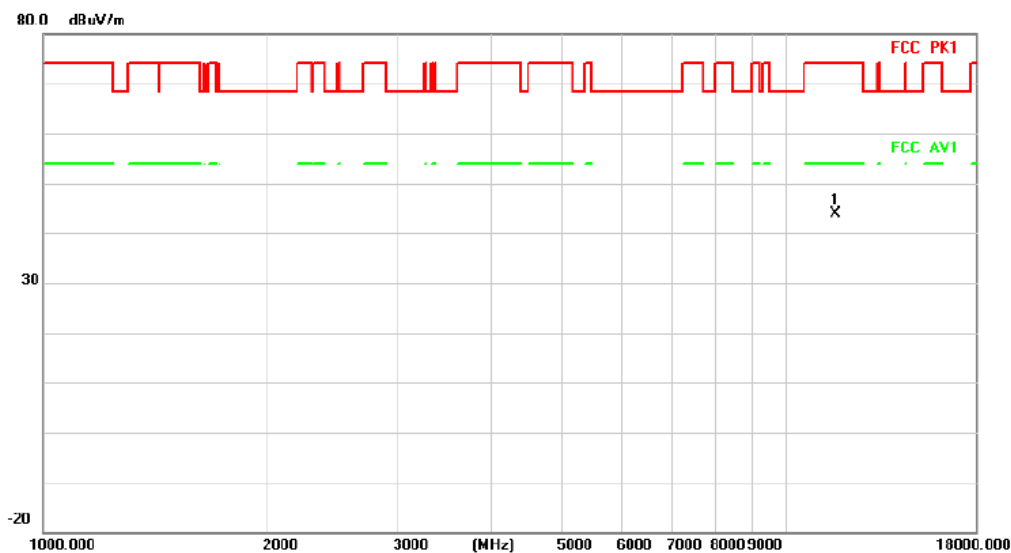
Test Channel:165

VERTICAL



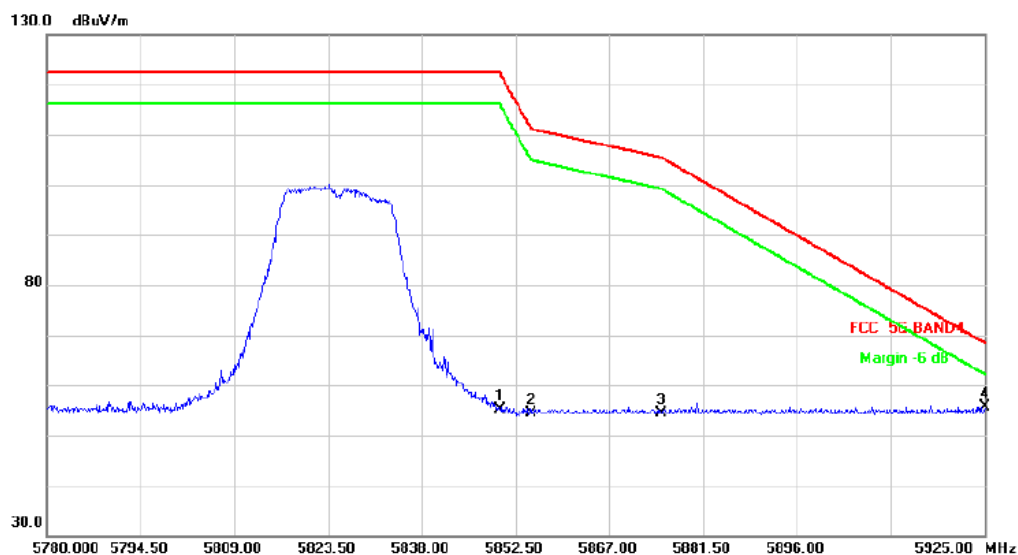
HORIZONTAL

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	*	11650.000	-4.76	48.62	43.86	74.00	-30.14	peak	

Radiated Emission



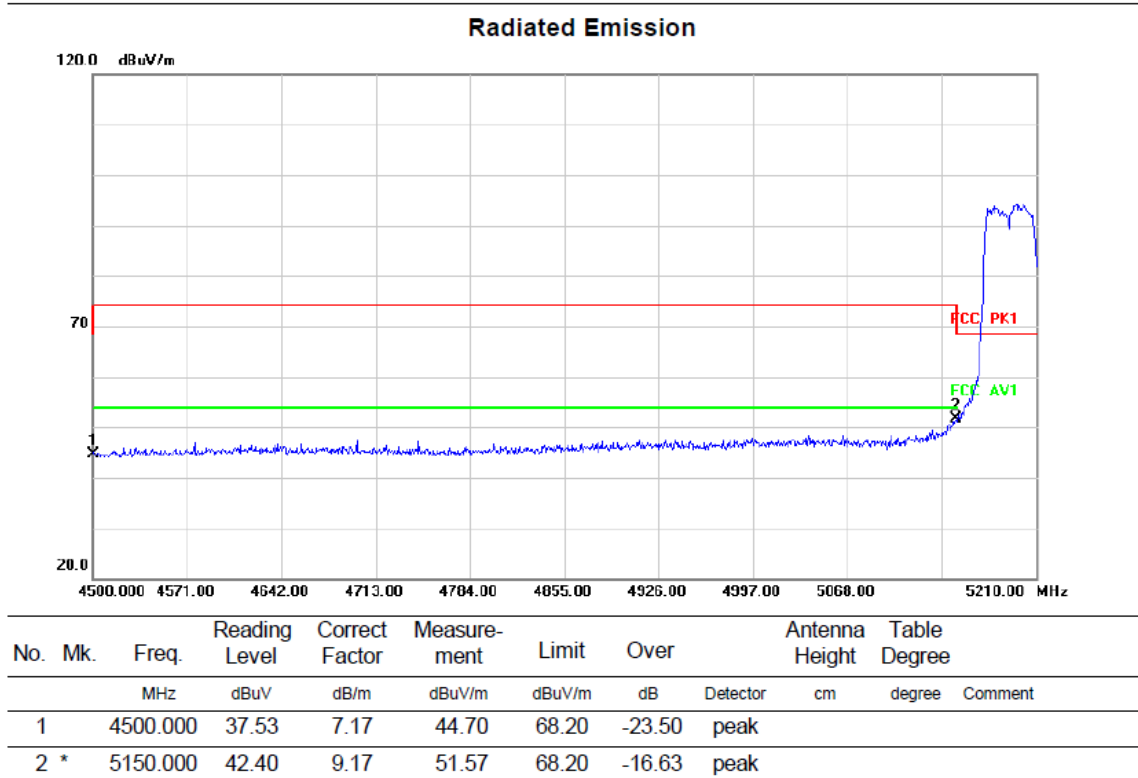
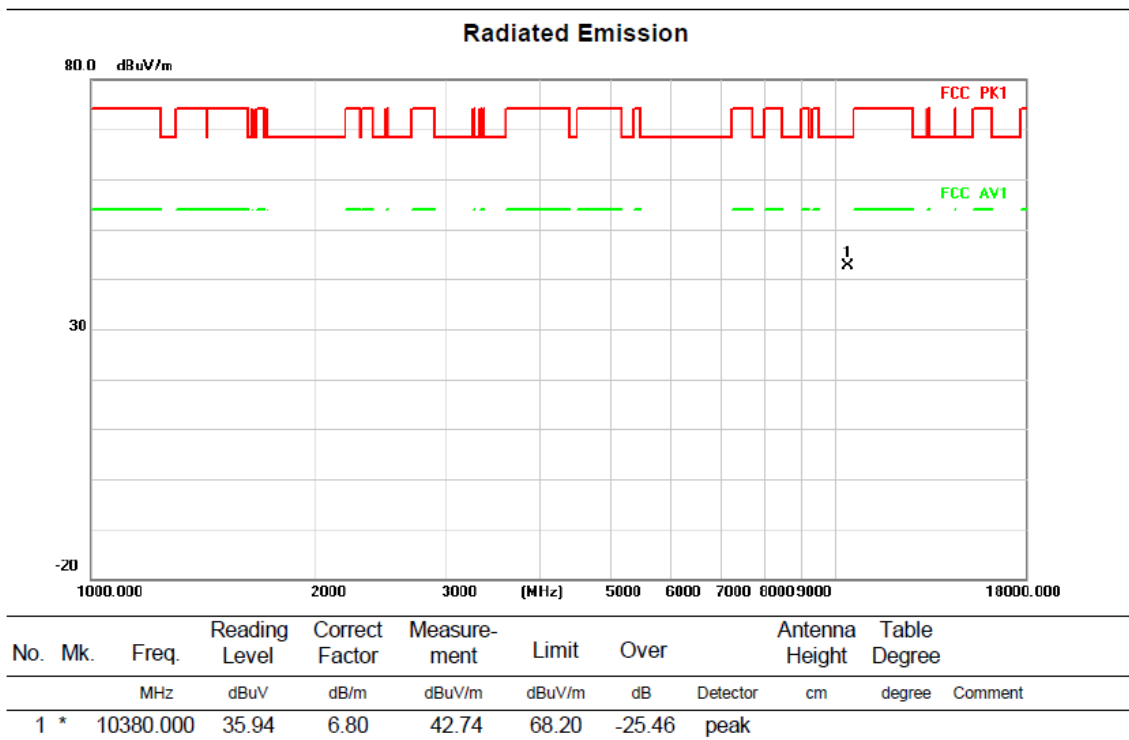
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		5850.000	45.91	9.24	55.15	122.20	-67.05	peak	
2		5855.000	45.19	9.26	54.45	110.80	-56.35	peak	
3		5875.000	45.09	9.36	54.45	105.20	-50.75	peak	
4	*	5925.000	45.94	9.61	55.55	68.20	-12.65	peak	

Above 1G (1GHz~18GHz)

Test mode: 11AC40MIMO

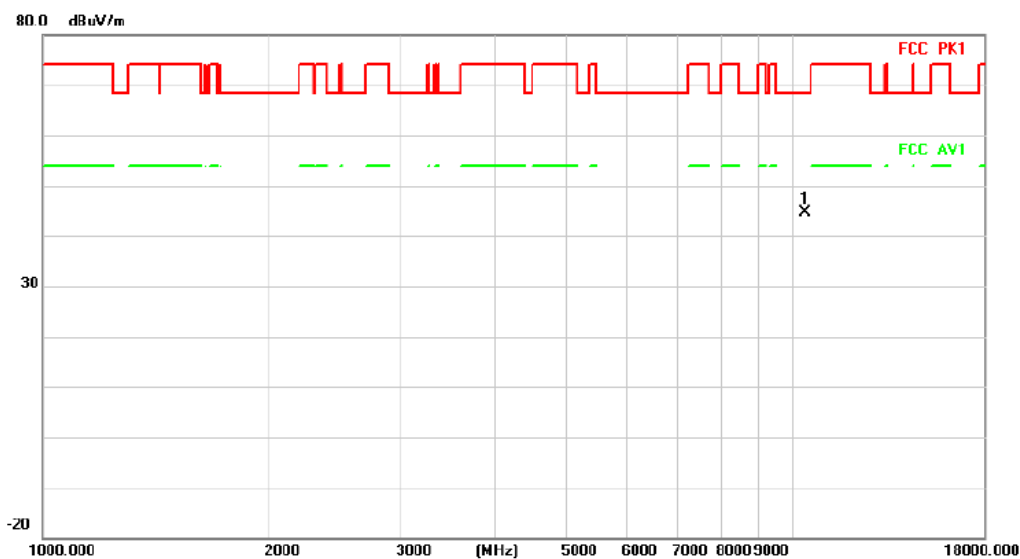
Test Channel:38

VERTICAL



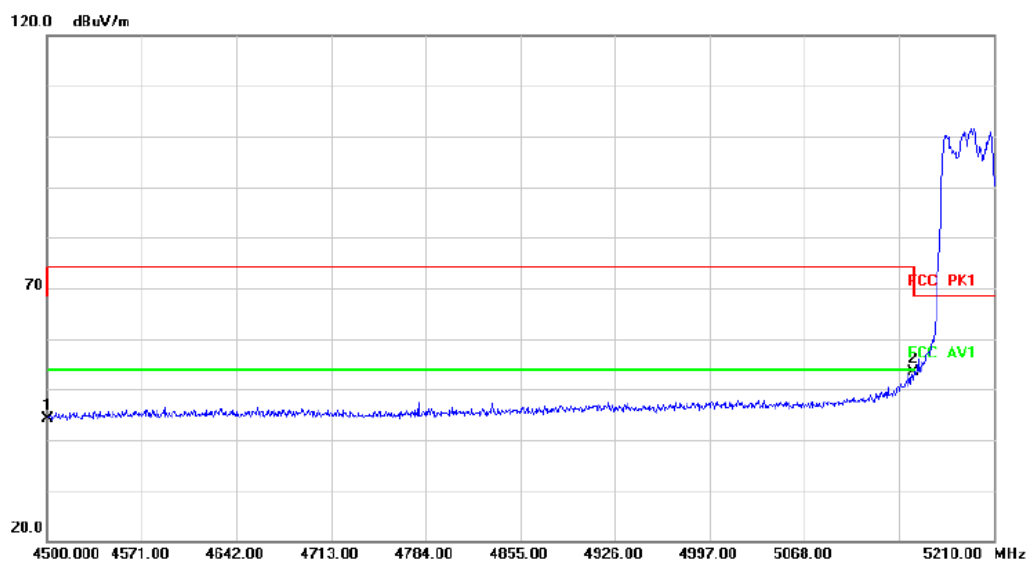
HORIZONTAL

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	*	10380.000	37.72	6.80	44.52	68.20	-23.68	peak		

Radiated Emission



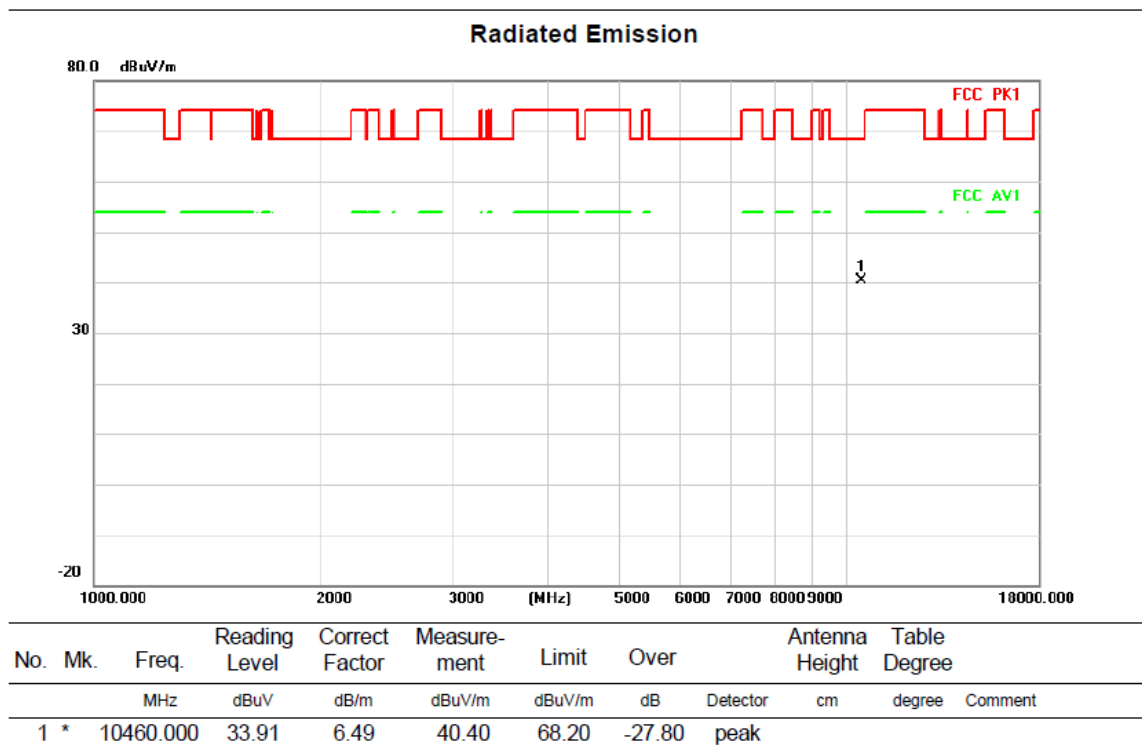
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4500.000	36.96	7.17	44.13	68.20	-24.07	peak		
2	*	5150.000	44.13	9.17	53.30	68.20	-14.90	peak		

Above 1G (1GHz~18GHz)

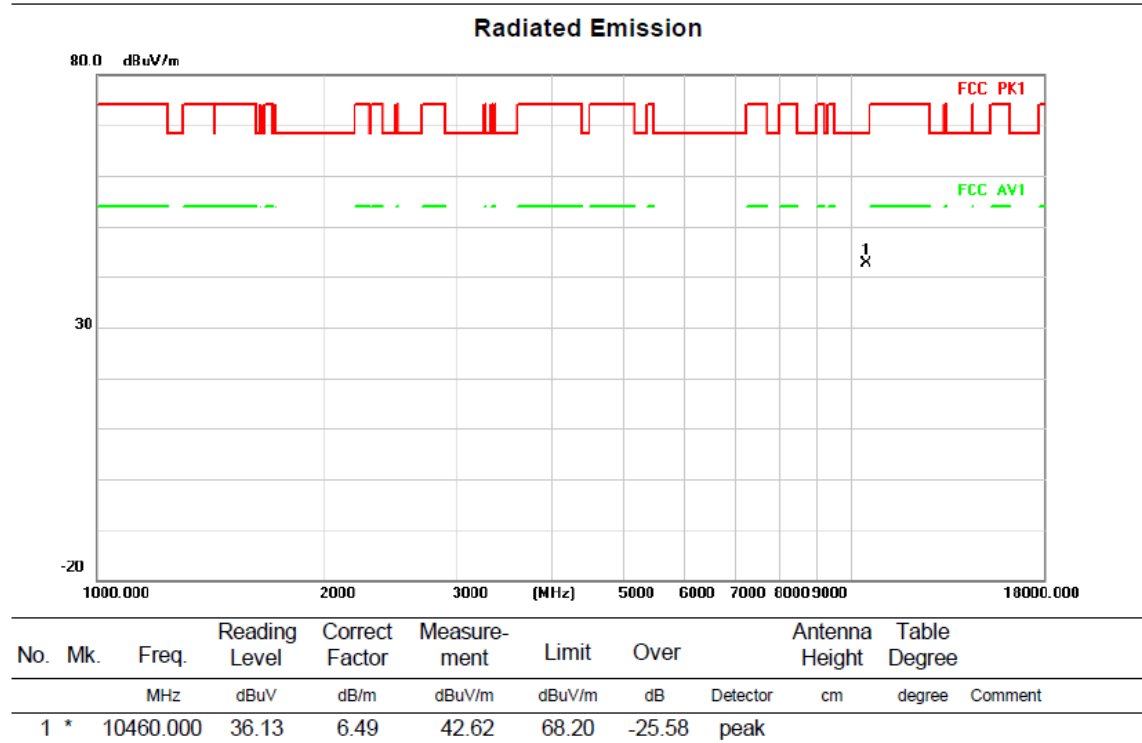
Test mode: 11AC40MIMO

Test Channel:46

VERTICAL



HORIZONTAL

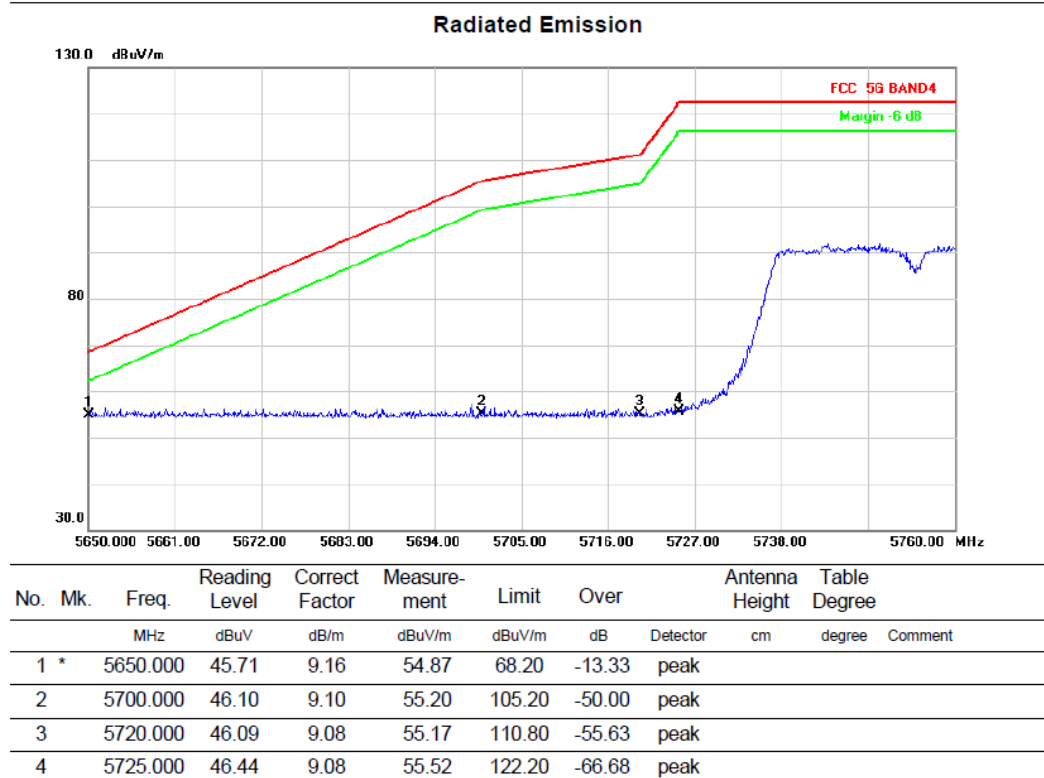
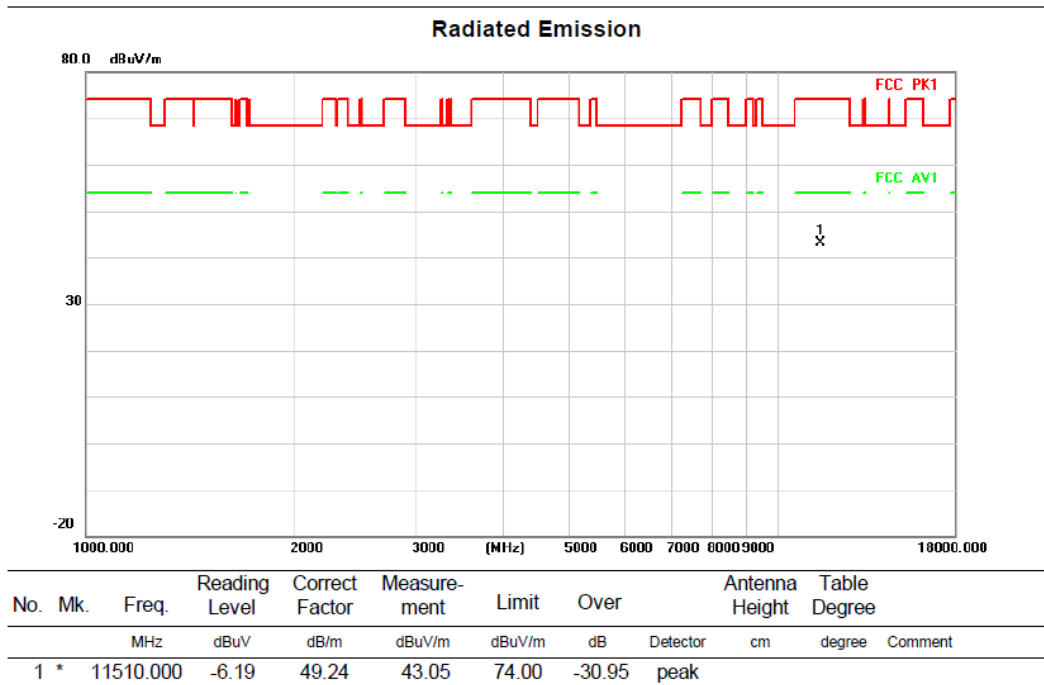


Above 1G (1GHz~18GHz)

Test mode: 11AC40MIMO

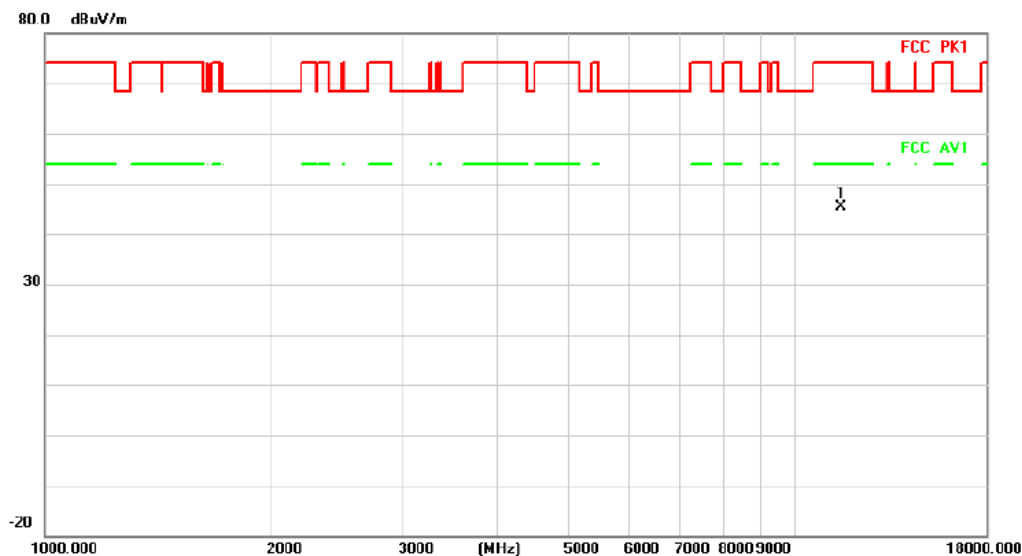
Test Channel:151

VERTICAL



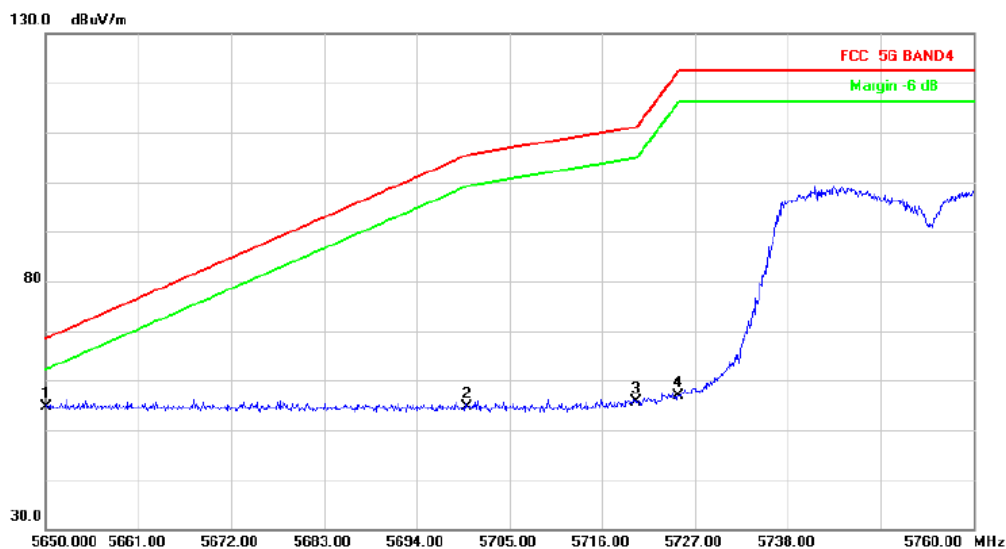
HORIZONTAL

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	*	11510.000	-3.74	49.24	45.50	74.00	-28.50	peak	

Radiated Emission



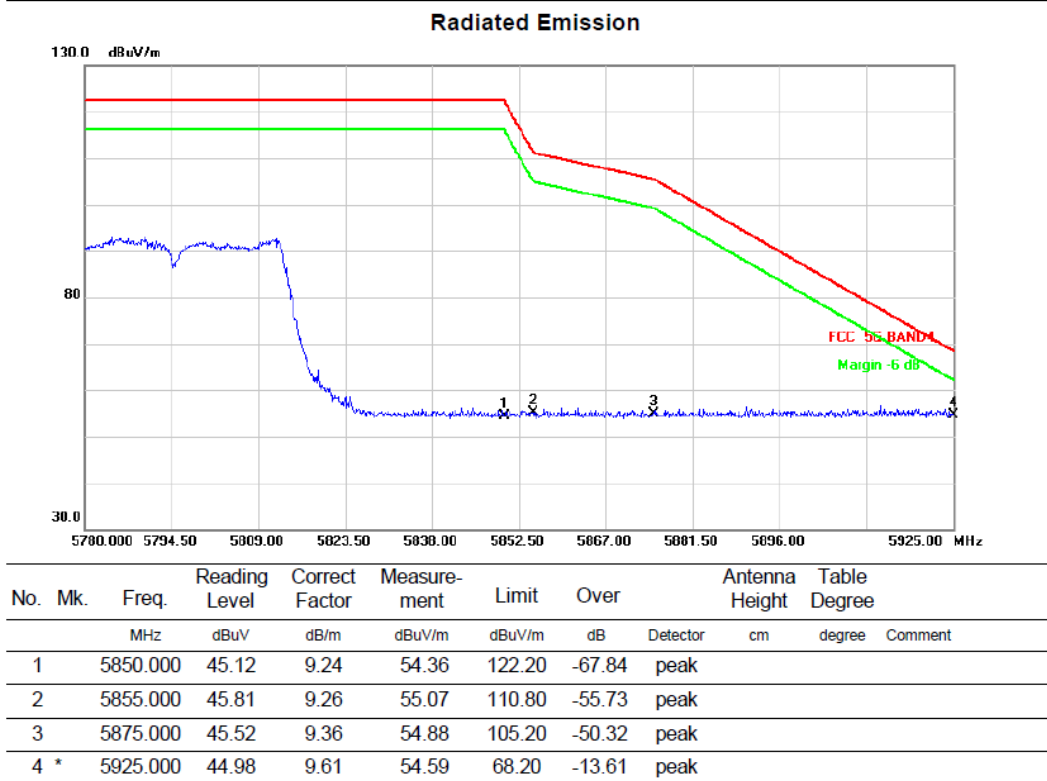
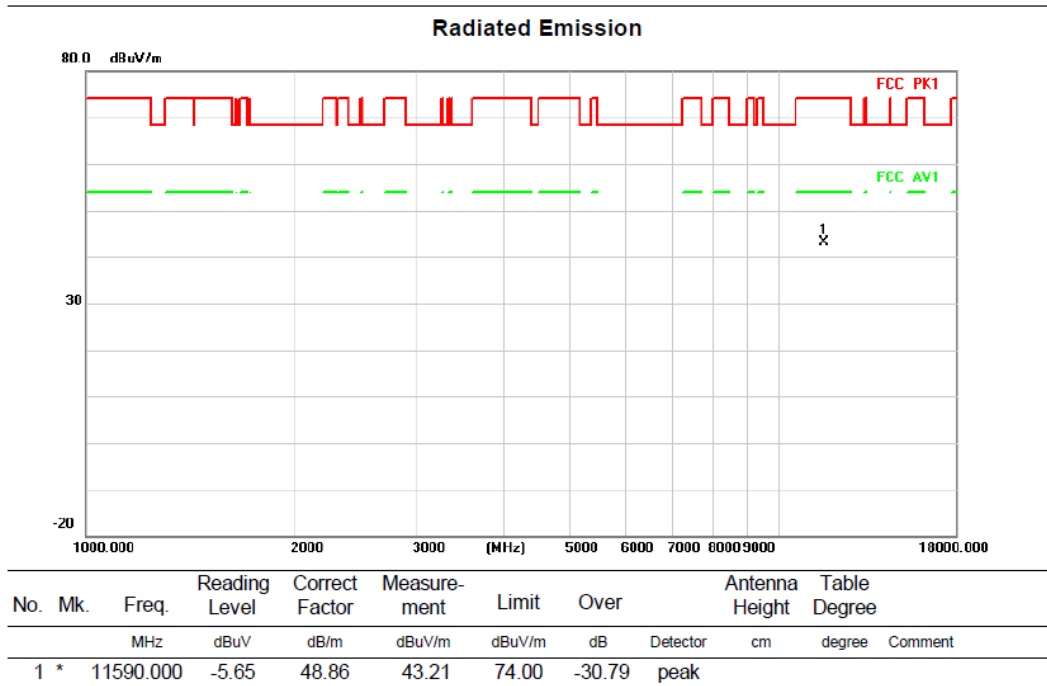
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	5650.000	45.40	9.16	54.56	68.20	-13.64	peak	
2		5700.000	45.54	9.10	54.64	105.20	-50.56	peak	
3		5720.000	46.67	9.08	55.75	110.80	-55.05	peak	
4		5725.000	47.76	9.08	56.84	122.20	-65.36	peak	

Above 1G (1GHz~18GHz)

Test mode: 11AC40MIMO

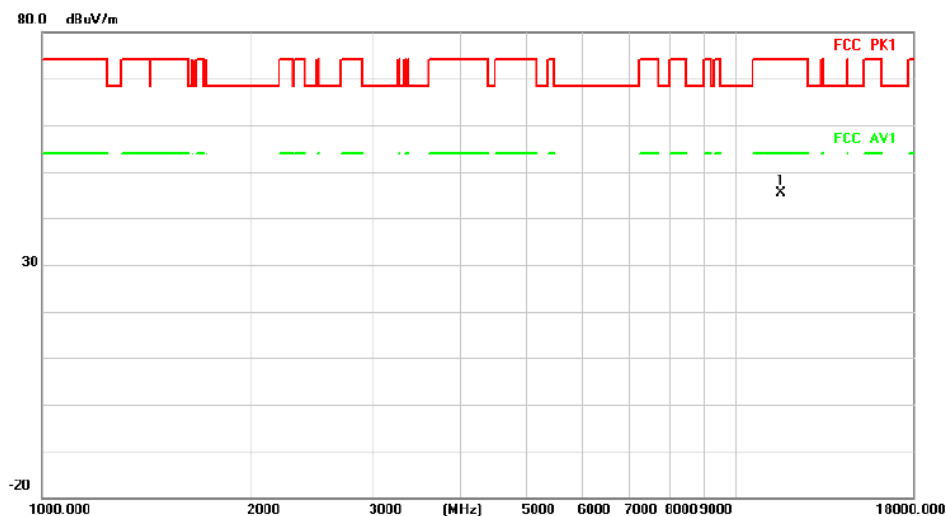
Test Channel:159

VERTICAL



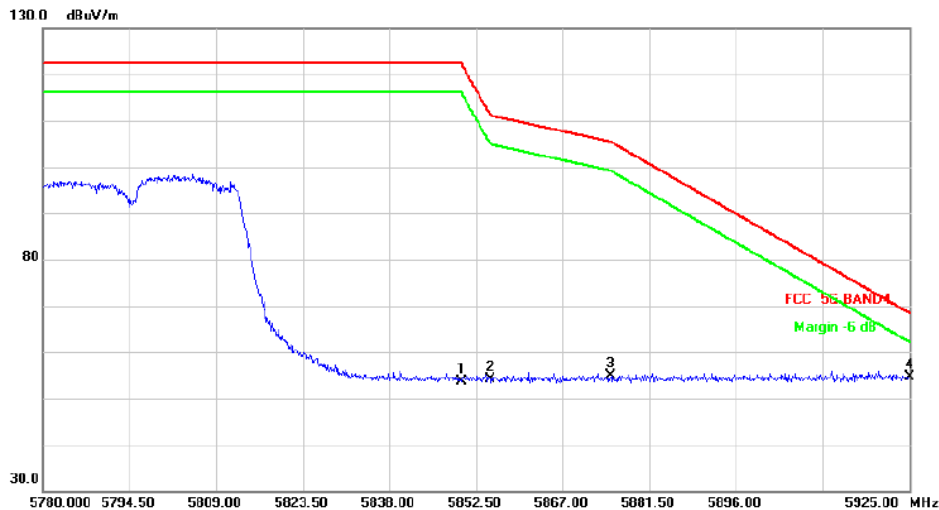
HORIZONTAL

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	Comment
1	*	11590.000	-3.54	48.86	45.32	74.00	-28.68	peak			

Radiated Emission



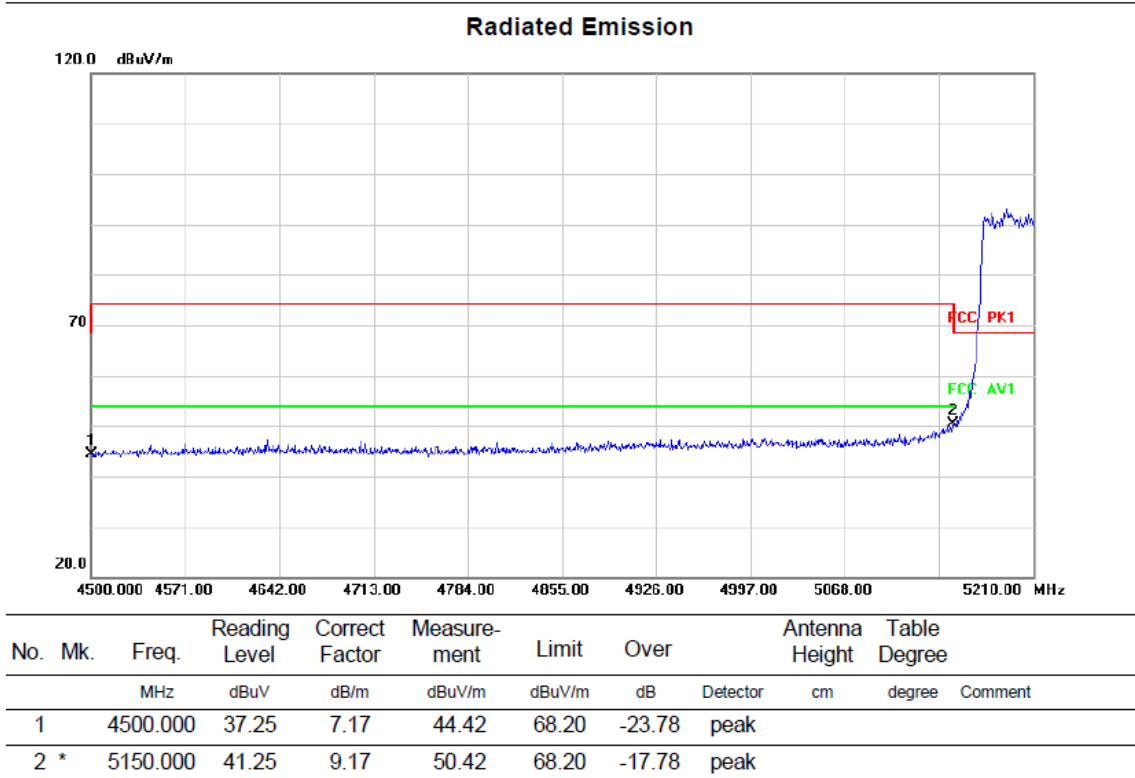
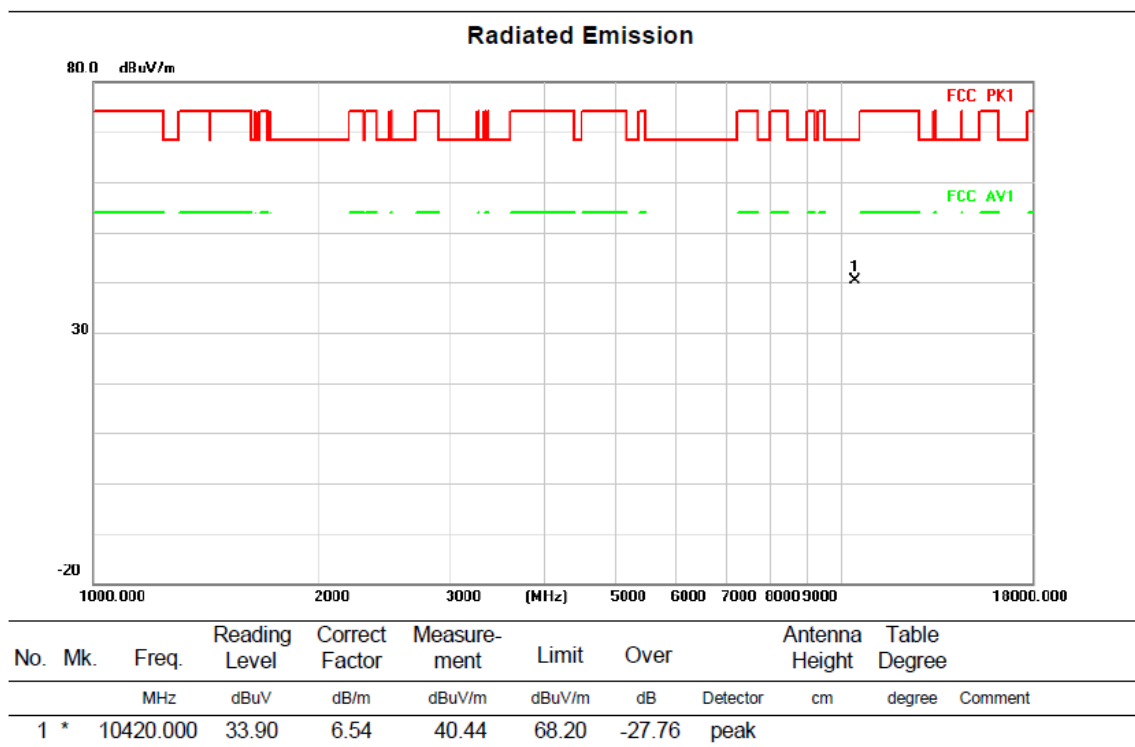
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5850.000	44.42	9.24	53.66	122.20	-68.54	peak			
2		5855.000	44.96	9.26	54.22	110.80	-56.58	peak			
3		5875.000	45.52	9.36	54.88	105.20	-50.32	peak			
4	*	5925.000	45.01	9.61	54.62	68.20	-13.58	peak			

Above 1G (1GHz~18GHz)

Test mode: 11AC80MIMO

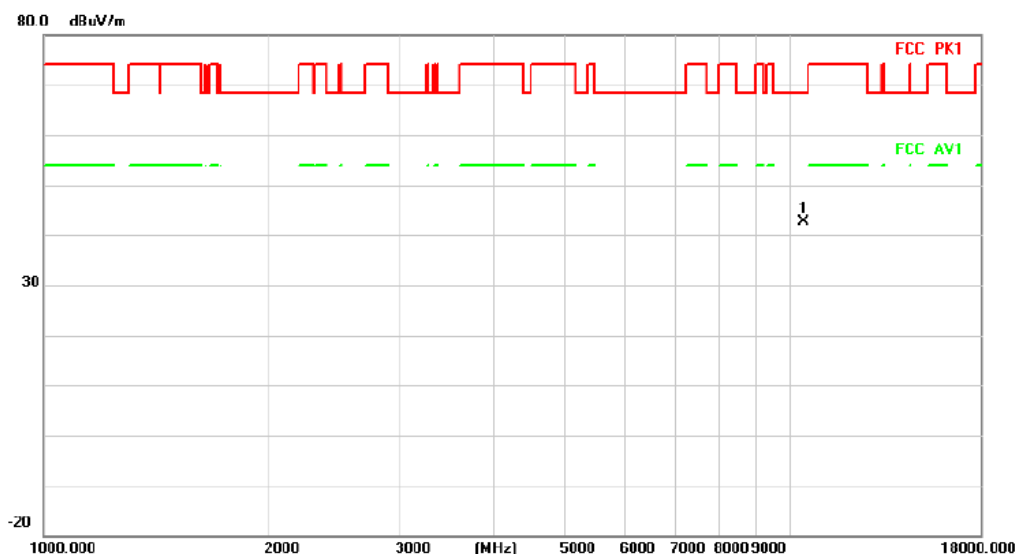
Test Channel:42

VERTICAL



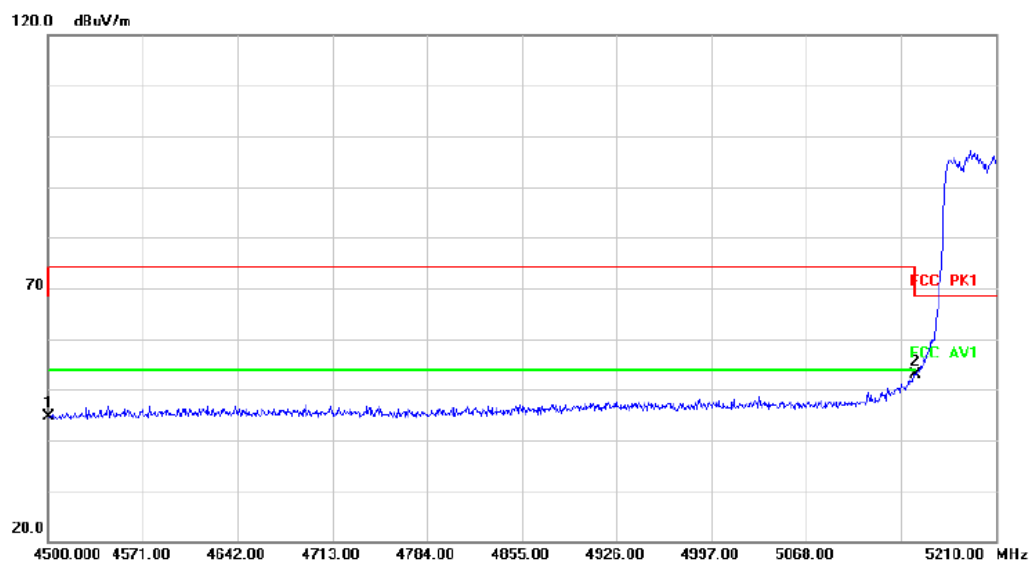
HORIZONTAL

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	*	10420.000	36.07	6.54	42.61	68.20	-25.59	peak		

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		4500.000	37.58	7.17	44.75	68.20	-23.45	peak		
2	*	5150.000	43.69	9.17	52.86	68.20	-15.34	peak		

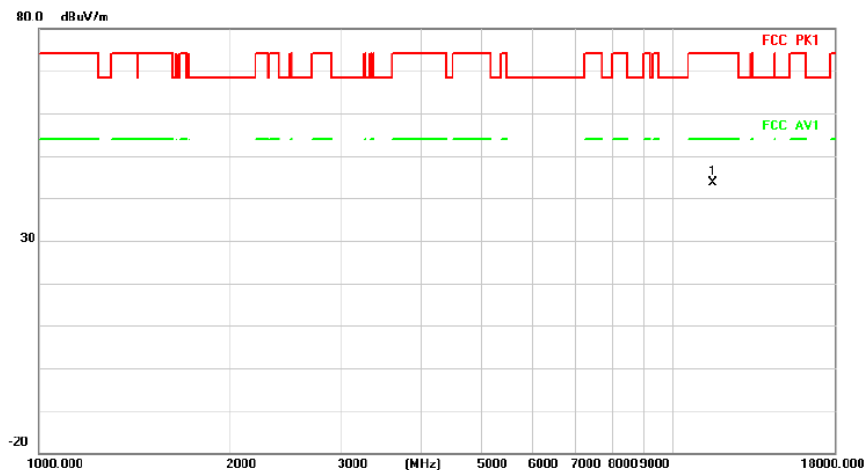
Above 1G (1GHz~18GHz)

Test mode: 11AC80MIMO

Test Channel:155

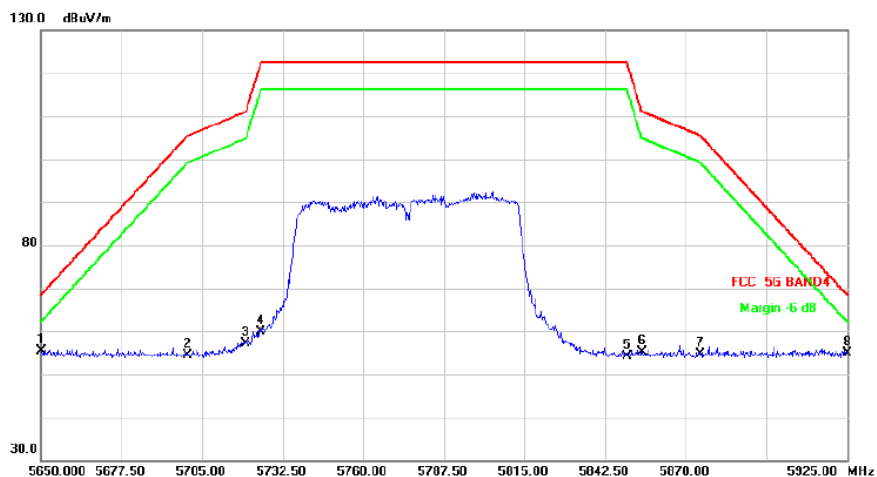
VERTICAL

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	*	11550.000	-5.41	49.05	43.64	74.00	-30.36	peak		

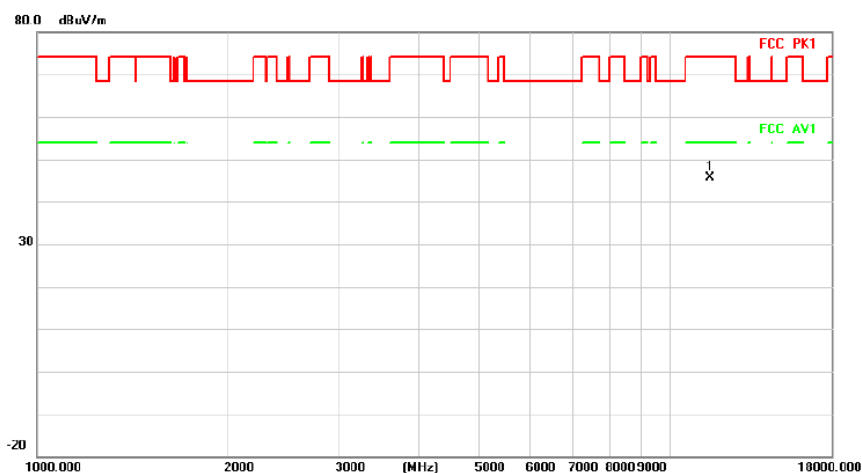
Radiated Emission



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	*	5650.000	46.11	9.16	55.27	68.20	-12.93	peak		
2		5700.000	45.28	9.10	54.38	105.20	-50.82	peak		
3		5720.000	48.15	9.08	57.23	110.80	-53.57	peak		
4		5725.000	50.85	9.08	59.93	122.20	-62.27	peak		
5		5850.000	44.84	9.24	54.08	122.20	-68.12	peak		
6		5855.000	45.91	9.26	55.17	110.80	-55.63	peak		
7		5875.000	45.37	9.36	54.73	105.20	-50.47	peak		
8		5925.000	45.35	9.61	54.96	68.20	-13.24	peak		

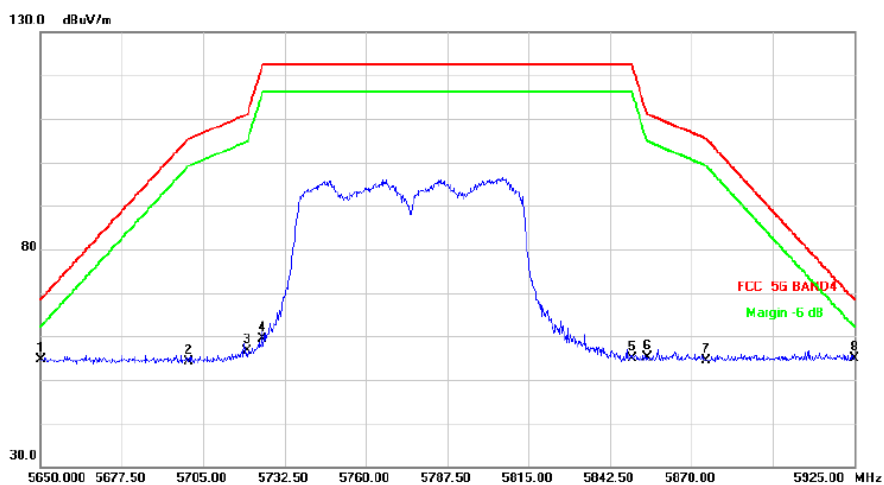
HORIZONTALA

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	cm	degree
1	*	11550.000	-3.32	49.05	45.73	74.00	-28.27	peak	

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		5650.000	45.50	9.16	54.66	68.20	-13.54	peak	
2		5700.000	44.95	9.10	54.05	105.20	-51.15	peak	
3		5720.000	47.53	9.08	56.61	110.80	-54.19	peak	
4		5725.000	50.26	9.08	59.34	122.20	-62.86	peak	
5		5850.000	45.73	9.24	54.97	122.20	-67.23	peak	
6		5855.000	45.88	9.26	55.14	110.80	-55.66	peak	
7		5875.000	45.05	9.36	54.41	105.20	-50.79	peak	
8	*	5925.000	45.21	9.61	54.82	68.20	-13.38	peak	

Note: The high frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

3.3 Spectrum Bandwidth

3.3.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
15.407(e)	26 dB Bandwidth	-	5470-5725
	26 dB Bandwidth	-	5725-5850
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

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) the spectrum analyser is set as follow:

For 26 dB Bandwidth

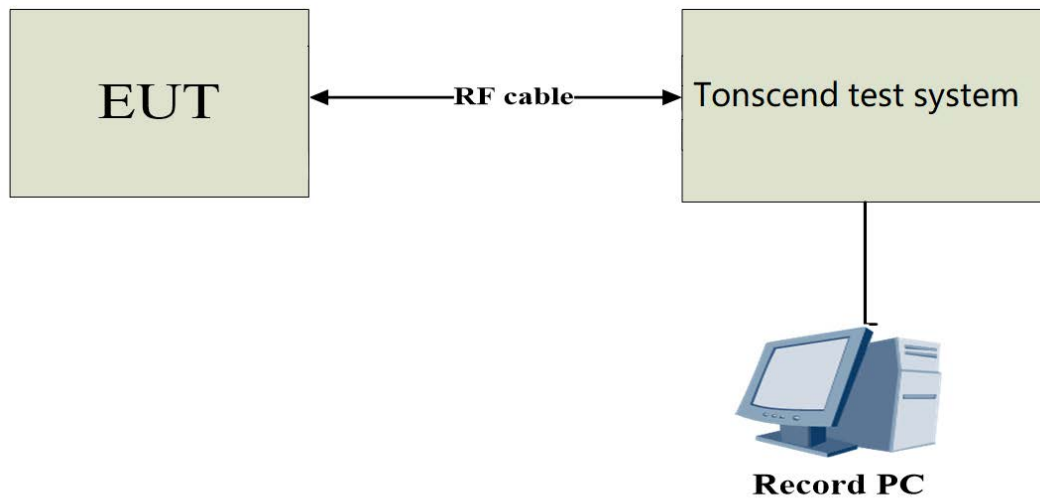
Centre Frequency	The centre frequency of the channel under test
RBW	$\geq 1\% \times \text{Nominal Channel Bandwidth}$
VBW	$\geq 3 \times \text{RBW}$
Frequency span	$2 \times \text{Nominal Channel Bandwidth}$
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

For 6 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	100 kHz
VBW	300 kHz
Frequency span	$2 \times \text{Nominal Channel Bandwidth}$
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

- c) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- d) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- e) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.3.3 Test Setup



3.3.4 Test Result

26 dB Bandwidth

Test Mode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	20.880	5169.600	5190.480	---	---
	Ant2	5180	24.840	5167.920	5192.760	---	---
	Ant1	5200	21.560	5189.160	5210.720	---	---
	Ant2	5200	21.920	5189.160	5211.080	---	---
	Ant1	5240	24.840	5227.960	5252.800	---	---
	Ant2	5240	29.440	5227.520	5256.960	---	---
	Ant1	5745	26.880	5731.920	5758.800	---	---
	Ant2	5745	34.640	5728.240	5762.880	---	---
	Ant1	5785	33.480	5768.320	5801.800	---	---
	Ant2	5785	34.360	5768.360	5802.720	---	---
11N20MIMO	Ant1	5825	27.000	5812.560	5839.560	---	---
	Ant2	5825	34.280	5808.640	5842.920	---	---
	Ant1	5180	30.480	5164.440	5194.920	---	---
	Ant2	5180	36.200	5161.800	5198.000	---	---
	Ant1	5200	25.560	5188.320	5213.880	---	---
	Ant2	5200	33.280	5184.160	5217.440	---	---
	Ant1	5240	30.640	5224.960	5255.600	---	---
	Ant2	5240	29.520	5226.160	5255.680	---	---
	Ant1	5745	29.080	5731.320	5760.400	---	---
	Ant2	5745	34.680	5728.120	5762.800	---	---
11N40MIMO	Ant1	5785	33.040	5768.960	5802.000	---	---
	Ant2	5785	36.920	5767.720	5804.640	---	---
	Ant1	5825	30.800	5809.920	5840.720	---	---
	Ant2	5825	33.560	5808.720	5842.280	---	---
	Ant1	5190	57.280	5161.200	5218.480	---	---
	Ant2	5190	69.840	5151.920	5221.760	---	---
	Ant1	5230	60.720	5198.320	5259.040	---	---
11AC20MIMO	Ant2	5230	65.040	5194.800	5259.840	---	---
	Ant1	5755	64.720	5723.400	5788.120	---	---
	Ant2	5755	71.680	5720.360	5792.040	---	---
	Ant1	5795	53.840	5773.240	5827.080	---	---
	Ant2	5795	74.000	5759.560	5833.560	---	---
	Ant1	5180	26.600	5168.240	5194.840	---	---
	Ant2	5180	32.920	5165.040	5197.960	---	---
	Ant1	5200	26.320	5188.520	5214.840	---	---
	Ant2	5200	30.880	5184.800	5215.680	---	---
	Ant1	5240	27.040	5227.840	5254.880	---	---
11AC40MIMO	Ant2	5240	30.960	5225.440	5256.400	---	---
	Ant1	5745	27.520	5732.440	5759.960	---	---
	Ant2	5745	33.720	5728.160	5761.880	---	---
	Ant1	5785	30.760	5769.720	5800.480	---	---
	Ant2	5785	35.800	5767.360	5803.160	---	---
	Ant1	5825	27.320	5812.640	5839.960	---	---
	Ant2	5825	32.080	5809.920	5842.000	---	---
	Ant1	5190	48.880	5168.720	5217.600	---	---
	Ant2	5190	59.200	5161.440	5220.640	---	---
	Ant1	5230	48.000	5208.640	5256.640	---	---
11AC80MIMO	Ant2	5230	67.360	5200.800	5268.160	---	---
	Ant1	5755	61.200	5730.760	5791.960	---	---
	Ant2	5755	70.400	5722.760	5793.160	---	---
	Ant1	5795	66.240	5765.960	5832.200	---	---
11AC80MIMO	Ant2	5795	69.440	5763.480	5832.920	---	---
	Ant1	5210	94.240	5167.600	5261.840	---	---
	Ant2	5210	113.920	5158.960	5272.880	---	---
	Ant1	5775	109.440	5730.520	5839.960	---	---
11AC80MIMO	Ant2	5775	128.800	5722.520	5851.320	---	---

11A-CDD_Ant1_5180



11A-CDD_Ant2_5180



11A-CDD_Ant1_5200



11A-CDD_Ant2_5200



11A-CDD_Ant1_5240



11A-CDD_Ant2_5240



11A-CDD_Ant1_5745



11A-CDD_Ant2_5745



11A-CDD_Ant1_5785



11A-CDD_Ant2_5785



11A-CDD_Ant1_5825



11A-CDD_Ant2_5825



11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240

