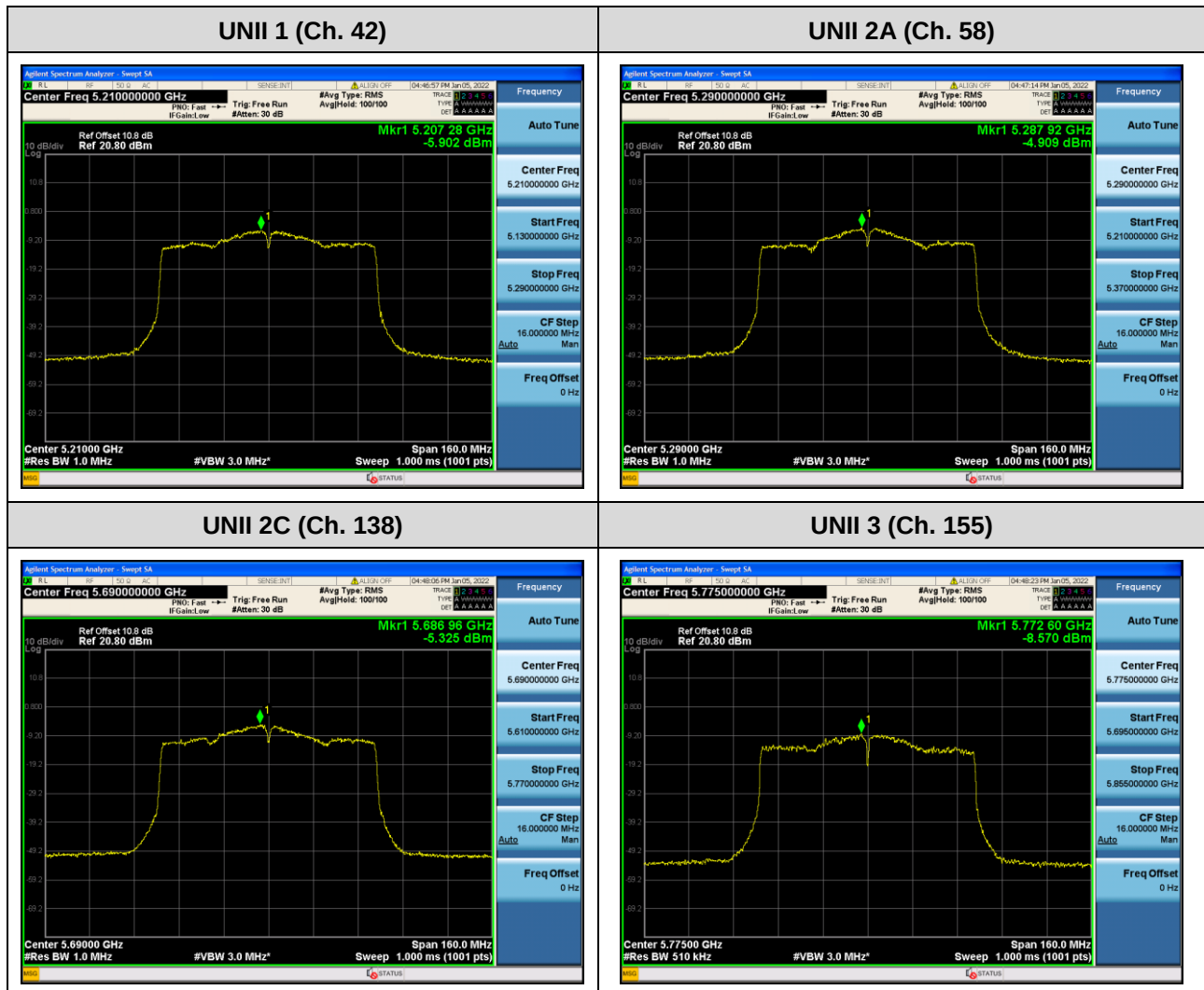


■ Test Plots(802.11ac(VHT80))

Note:

In order to simplify the report, attached plots were only channel of highest power.



10.6 STRADDLE CHANNEL

10.6.1 26 dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26 dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5710.72	14.28
802.11n(HT20)				5709.12	15.88
802.11ac(VHT20)				5709.28	15.72
802.11a	UNII 3	5720	144	5729.04	4.04
802.11n(HT20)				5730.64	5.64
802.11ac(VHT20)				5730.36	5.36

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26 dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5690.40	34.60
802.11ac(VHT40)				5690.32	34.68
802.11n(HT40)	UNII 3	5710	142	5729.52	4.52
802.11ac(VHT40)				5729.52	4.52

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26 dB Bandwidth [MHz]
802.11ac(VHT80)	UNII 2C	5690	138	5649.52	75.48
	UNII 3	5690	138	5730.16	5.16

Note:

[UNII 2C] 26 dB Bandwidth = 5 725 MHz - Measured Frequency[MHz]

[UNII 3C] 26 dB Bandwidth = Measured Frequency[MHz] – 5 725 MHz

☐ Test Plots (26 dB Bandwidth)

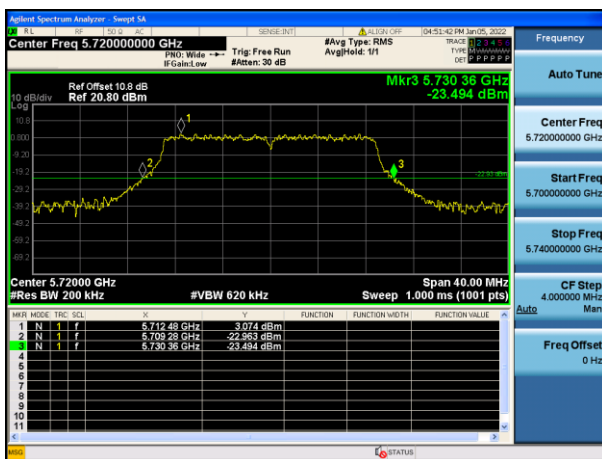
802.11a UNII Band



802.11n(HT20) UNII Band

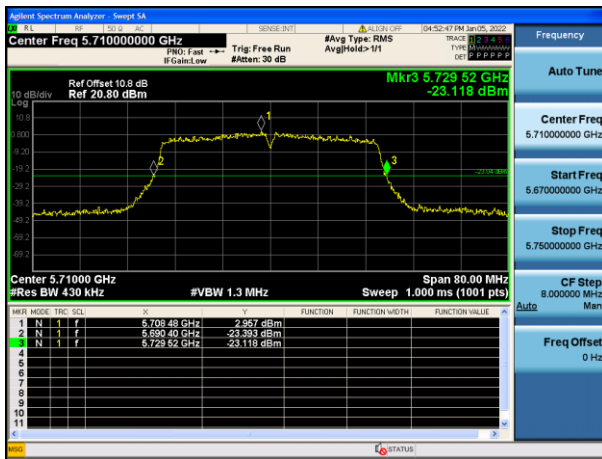


802.11ac(VHT20) UNII Band



☐ Test Plots (26 dB Bandwidth)

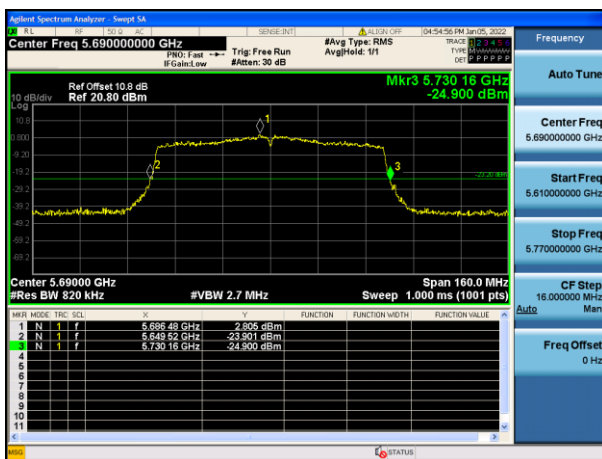
802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.6.2 6 dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.56	2.56	> 0.5
802.11n(HT20)				5728.84	3.84	> 0.5
802.11ac(VHT20)				5728.80	3.80	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.60	2.60	> 0.5
802.11ac(VHT40)				5727.60	2.60	> 0.5

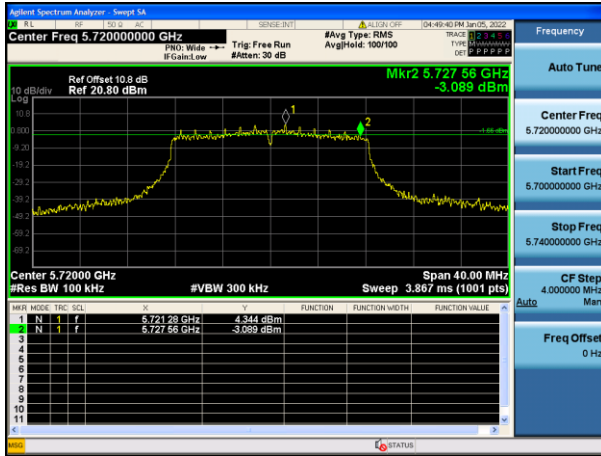
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.60	2.60	> 0.5

Note:

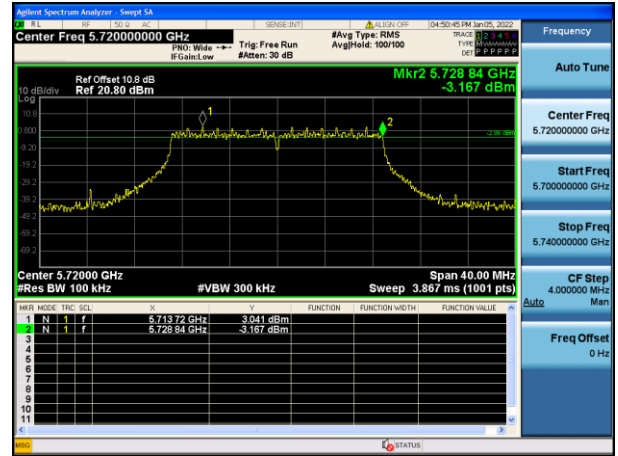
6 dB Bandwidth = Measured Frequency[MHz] – 5725MHz

Test Plots(UNII 3 Band 6 dB Bandwidth)

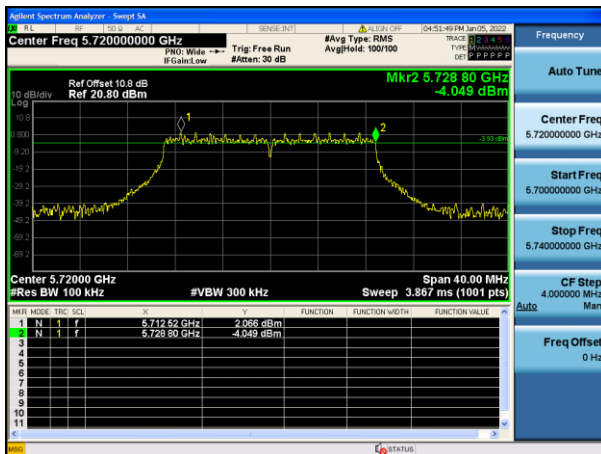
802.11a CH.144



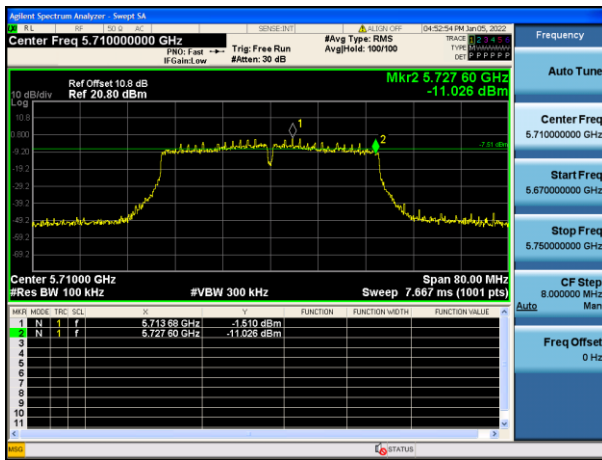
802.11n_HT20 CH.144



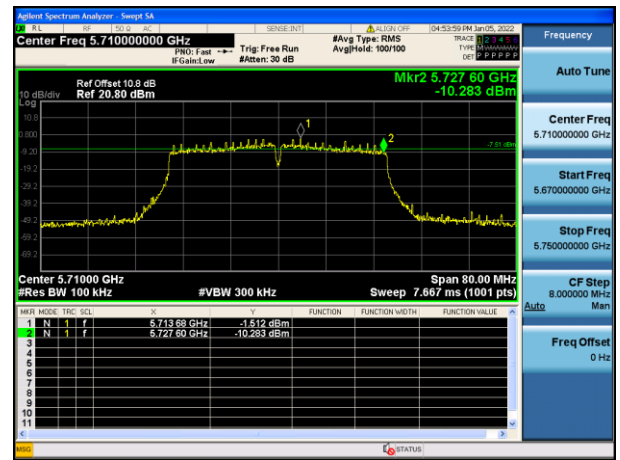
802.11ac_VHT20 CH.144



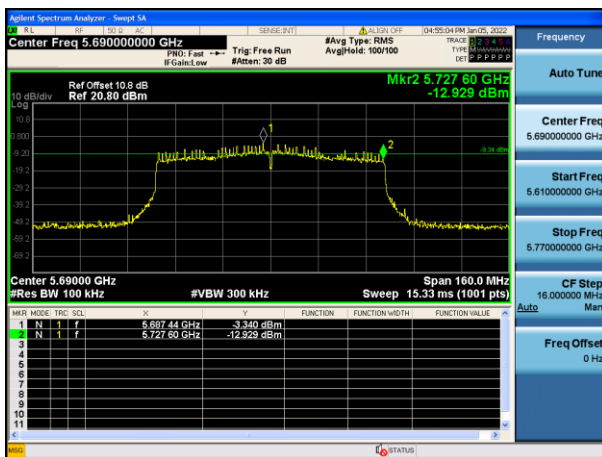
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.6.3 Output Power

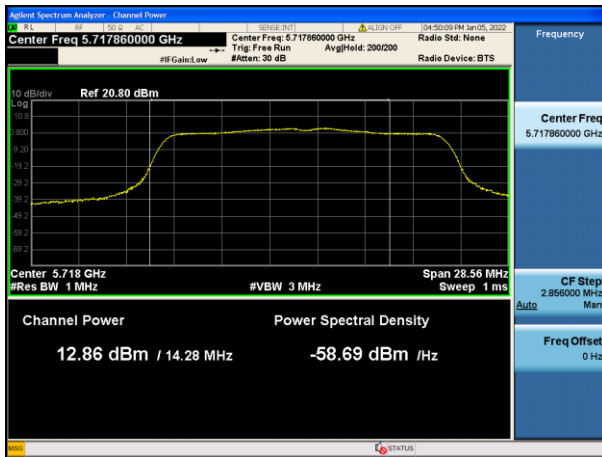
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	12.86	0.755	13.61	22.55	18 Mbps
802.11n(HT20)	(UNII 2C		11.70	2.057	13.75	23.01	MCS6
802.11ac(VHT20)	Band)		10.16	2.110	12.27	22.96	MCS1
802.11a	5720	144	5.00	0.755	5.76	30.00	18 Mbps
802.11n(HT20)	(UNII 3		6.20	2.057	8.25	30.00	MCS6
802.11ac(VHT20)	Band)		4.66	2.110	6.77	30.00	MCS1

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	10.24	1.114	11.35	23.98	MCS7
802.11ac(VHT40)	(UNII 2C Band)		10.30	1.166	11.46	23.98	MCS1
802.11n(HT40)	5710	142	-1.93	1.114	-0.81	30.00	MCS7
802.11ac(VHT40)	(UNII 3 Band)		-1.91	1.166	-0.74	30.00	MCS1

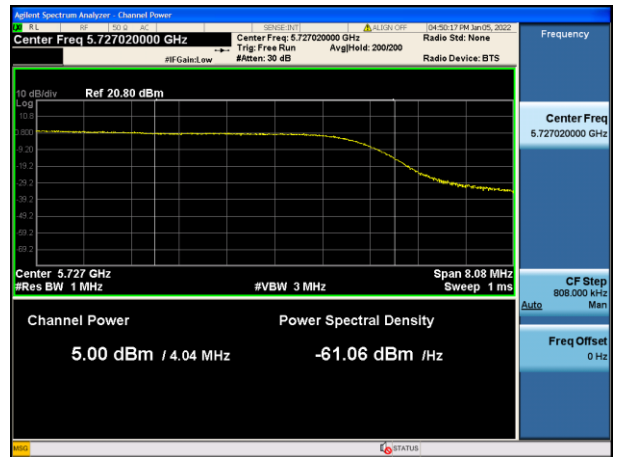
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	9.31	2.008	11.32	23.98	MCS1
	5690 (UNII 3 Band)	138	-7.24	2.008	-5.23	30.00	MCS1

Test Plots

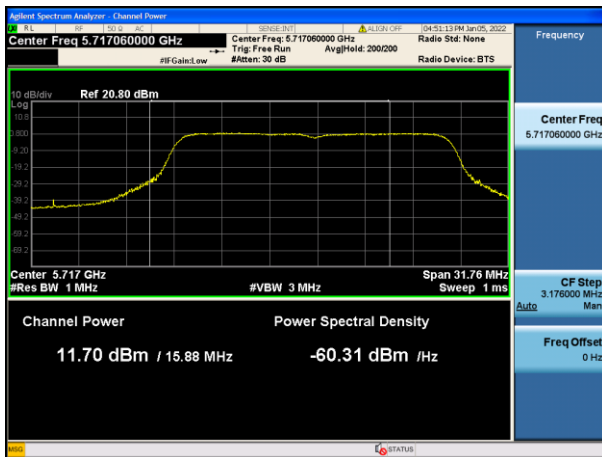
802.11a UNII 2C Band



802.11a UNII 3 Band



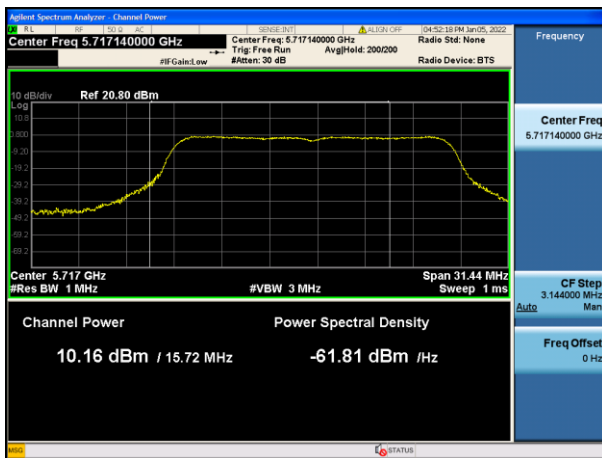
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



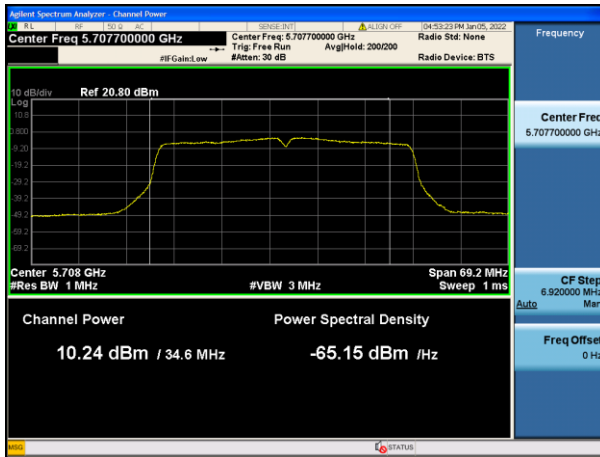
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



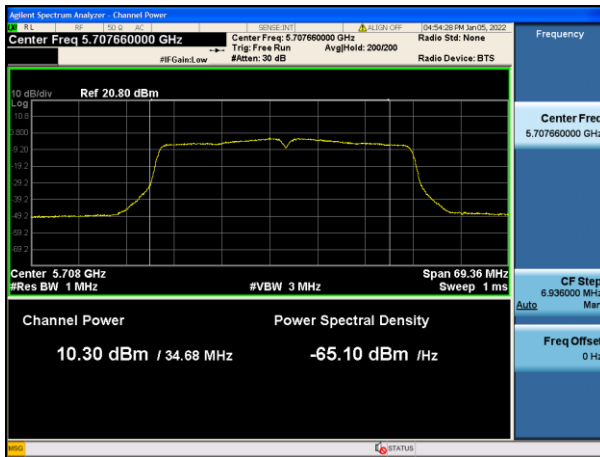
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



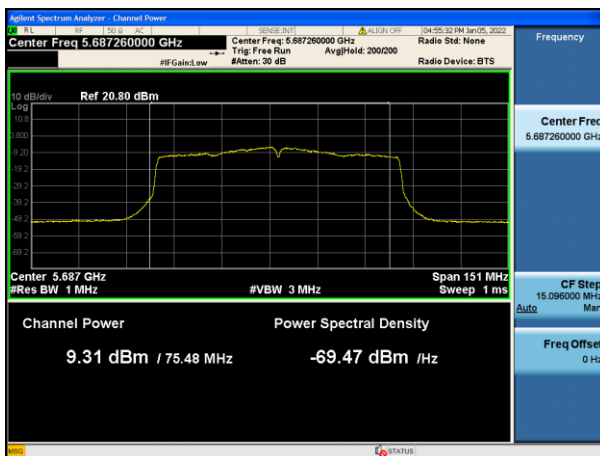
802.11ac(VHT40) UNII 2C Band



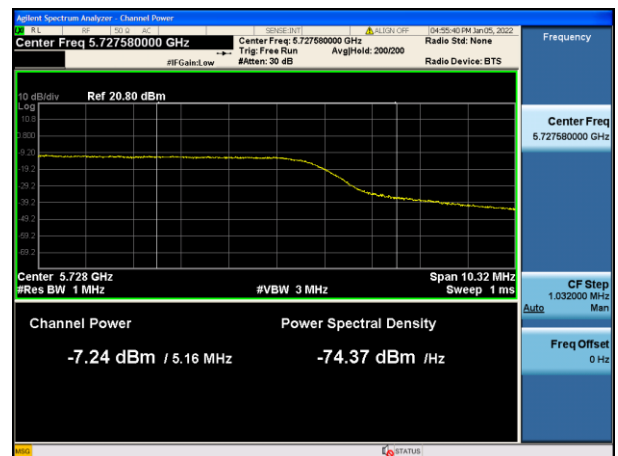
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.6.4 Power Spectral Density

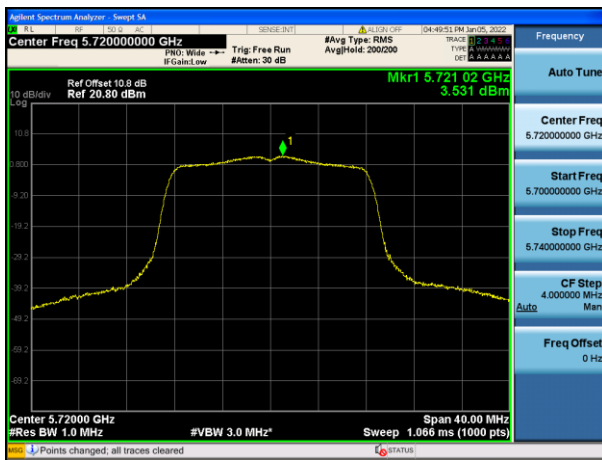
Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	3.531	0.755	4.285	11 dBm/ MHz	18 Mbps
802.11n(HT20)	(UNII 2C		1.237	2.057	3.294		MCS6
802.11ac(VHT20)	Band)		0.107	2.110	2.217		MCS1
802.11a	5720	144	-1.988	0.755	-1.233	30 dBm/ 500 kHz	18 Mbps
802.11n(HT20)	(UNII 3 Band)		-1.464	2.057	0.593		MCS6
802.11ac(VHT20)			-3.278	2.110	-1.168		MCS1

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	-2.756	1.114	-1.642	11 dBm/ MHz	MCS7
802.11ac(VHT40)	(UNII 2C Band)		-2.546	1.166	-1.380		MCS1
802.11n(HT40)	5710	142	-8.886	1.114	-7.772	30 dBm/ 500 kHz	MCS7
802.11ac(VHT40)	(UNII 3 Band)		-8.927	1.166	-7.761		MCS1

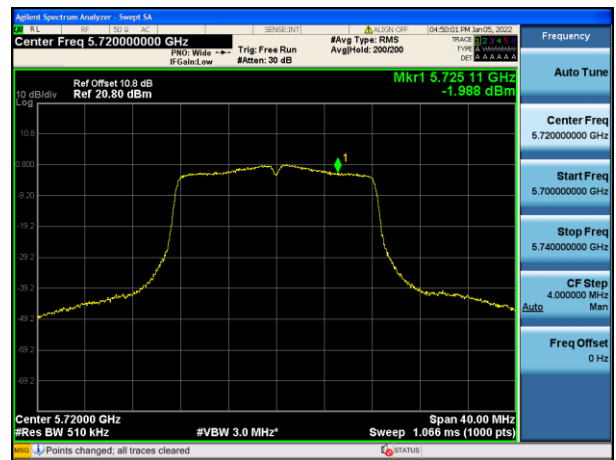
Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690	138	-5.792	2.008	-3.784	11 dBm/ MHz	MCS1
	5690	138	-14.719	2.008	-12.711	30 dBm/ 500 kHz	MCS1

Test Plots

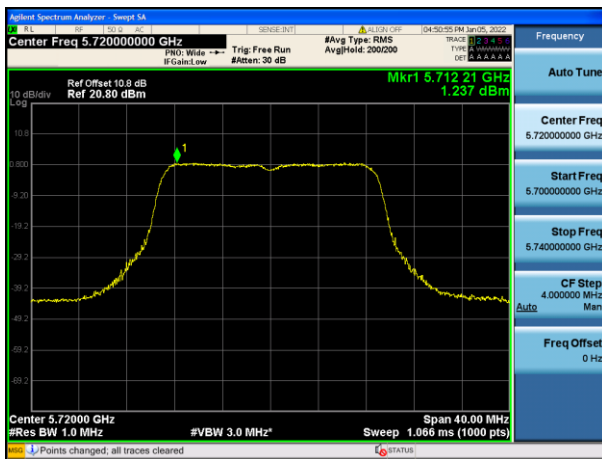
802.11a UNII 2C Band



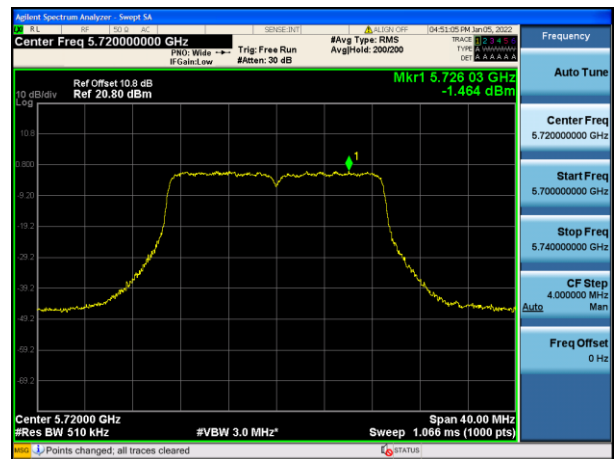
802.11a UNII 3 Band



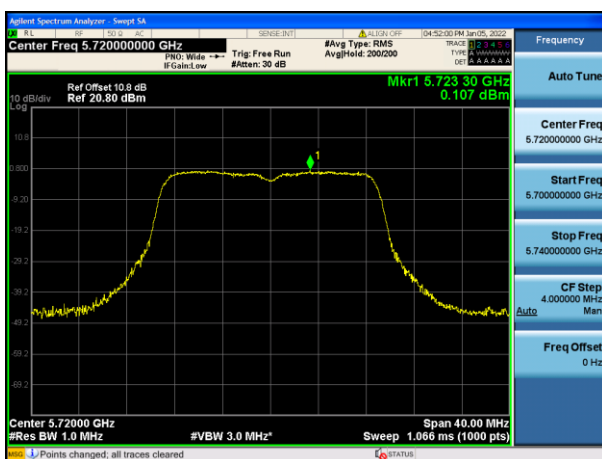
802.11n(HT20) UNII 2C Band



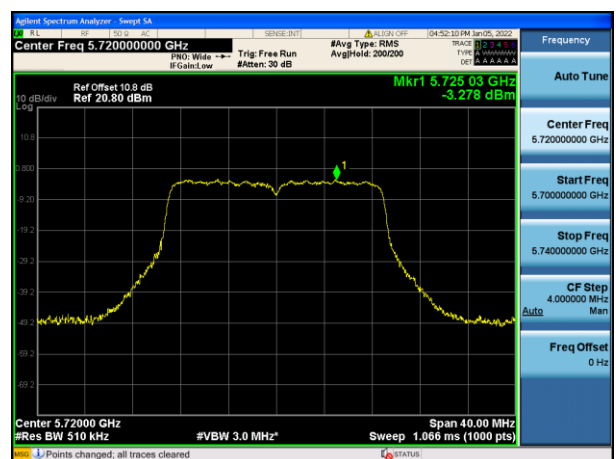
802.11n(HT20) UNII 3 Band



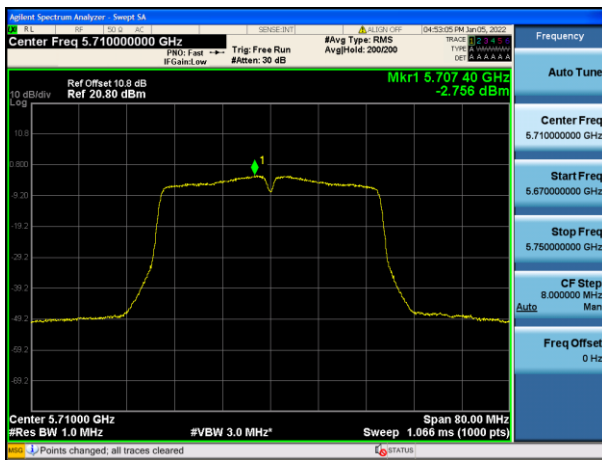
802.11ac(VHT20) UNII 2C Band



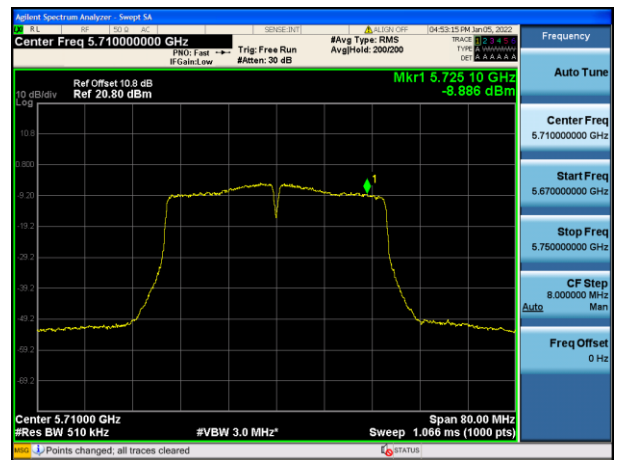
802.11ac(VHT20) UNII 3 Band



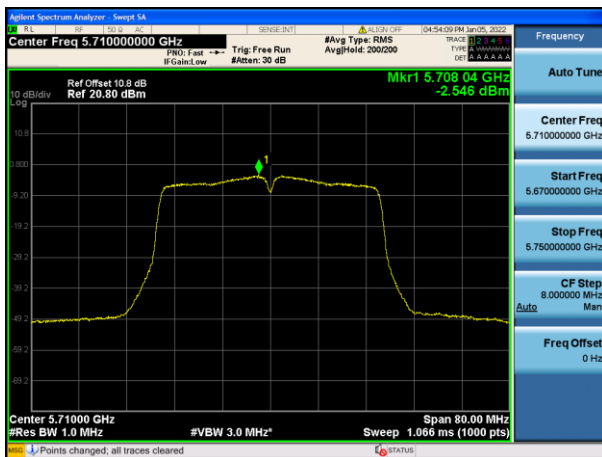
802.11n(HT40) UNII 2C Band



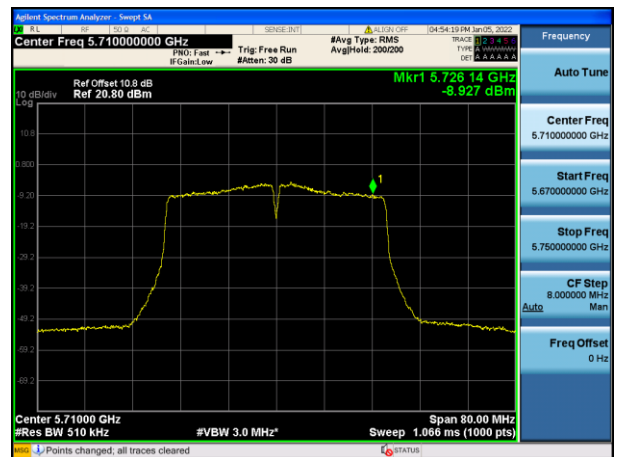
802.11n(HT40) UNII 3 Band



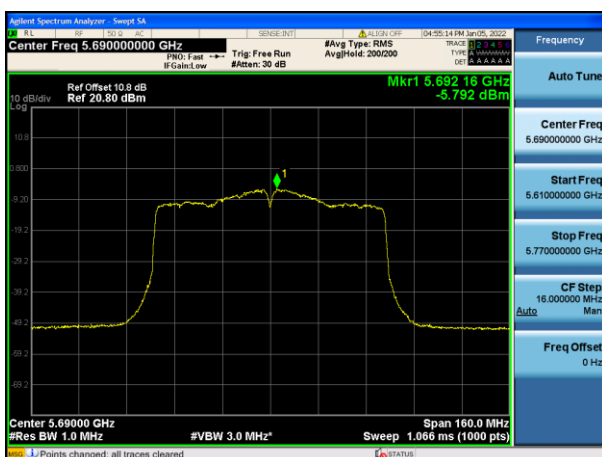
802.11ac(VHT40) UNII 2C Band



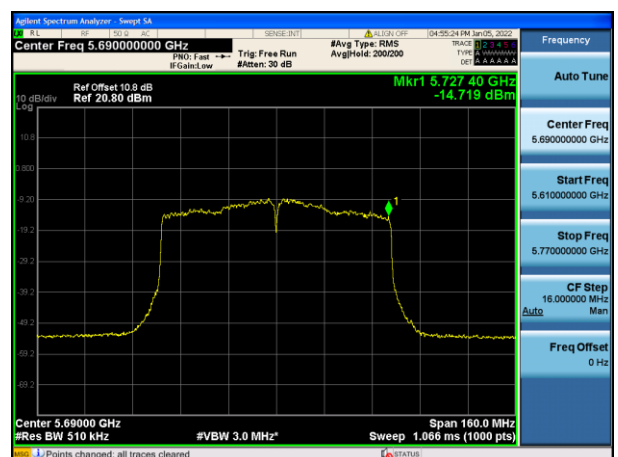
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7 RADIATED SPURIOUS EMISSIONS**Frequency Range : 9 kHz – 30 MHz**

Frequency	Measured Value	CL+AF+DF-AG	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

Frequency Range : Above 1 GHz

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	52.46	0.24	V	52.70	68.20	15.50	PK
15540	50.40	2.16	V	52.56	73.98	21.42	PK
15540	37.63	2.16	V	39.79	53.98	14.19	AV
10360	52.37	0.24	H	52.61	68.20	15.59	PK
15540	50.54	2.16	H	52.70	73.98	21.28	PK
15540	37.64	2.16	H	39.80	53.98	14.18	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	52.07	0.74	V	52.81	68.20	15.39	PK
15600	50.37	1.81	V	52.18	73.98	21.80	PK
15600	37.21	1.81	V	39.02	53.98	14.96	AV
10400	52.18	0.74	H	52.92	68.20	15.28	PK
15600	50.33	1.81	H	52.14	73.98	21.84	PK
15600	37.42	1.81	H	39.23	53.98	14.75	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	52.73	-0.25	V	52.48	68.20	15.72	PK
15720	51.07	1.16	V	52.23	73.98	21.75	PK
15720	37.34	1.16	V	38.50	53.98	15.48	AV
10480	53.14	-0.25	H	52.89	68.20	15.31	PK
15720	50.76	1.16	H	51.92	73.98	22.06	PK
15720	37.43	1.16	H	38.59	53.98	15.39	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	52.87	-0.20	V	52.67	68.20	15.53	PK
15780	50.74	1.20	V	51.94	73.98	22.04	PK
15780	37.56	1.20	V	38.76	53.98	15.22	AV
10520	53.50	-0.20	H	53.30	68.20	14.90	PK
15780	50.66	1.20	H	51.86	73.98	22.12	PK
15780	37.56	1.20	H	38.76	53.98	15.22	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10600	53.32	0.10	V	53.42	73.98	20.56	PK
10600	39.84	0.10	V	39.94	53.98	14.04	AV
15900	51.36	1.04	V	52.40	73.98	21.58	PK
15900	38.20	1.04	V	39.24	53.98	14.74	AV
10600	52.76	0.10	H	52.86	73.98	21.12	PK
10600	39.90	0.10	H	40.00	53.98	13.98	AV
15900	51.50	1.04	H	52.54	73.98	21.44	PK
15900	38.03	1.04	H	39.07	53.98	14.91	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10640	52.80	0.35	V	53.15	73.98	20.83	PK
10640	39.58	0.35	V	39.93	53.98	14.05	AV
15960	50.93	1.12	V	52.05	73.98	21.93	PK
15960	38.20	1.12	V	39.32	53.98	14.66	AV
10640	52.36	0.35	H	52.71	73.98	21.27	PK
10640	39.54	0.35	H	39.89	53.98	14.09	AV
15960	51.18	1.12	H	52.30	73.98	21.68	PK
15960	38.20	1.12	H	39.32	53.98	14.66	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11000	53.03	0.40	V	53.43	73.98	20.55	PK
11000	39.61	0.40	V	40.01	53.98	13.97	AV
16500	51.13	1.16	V	52.29	68.20	15.91	PK
11000	52.40	0.40	H	52.80	73.98	21.18	PK
11000	39.66	0.40	H	40.06	53.98	13.92	AV
16500	51.29	1.16	H	52.45	68.20	15.75	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	52.89	-0.40	V	52.49	73.98	21.49	PK
11200	39.41	-0.40	V	39.01	53.98	14.97	AV
16800	51.24	0.65	V	51.89	68.20	16.31	PK
11200	53.12	-0.40	H	52.72	73.98	21.26	PK
11200	39.52	-0.40	H	39.12	53.98	14.86	AV
16800	51.77	0.65	H	52.42	68.20	15.78	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11440	52.27	0.14	V	52.41	73.98	21.57	PK
11440	40.06	0.14	V	40.20	53.98	13.78	AV
17160	51.47	1.35	V	52.82	68.20	15.38	PK
11440	52.34	0.14	H	52.48	73.98	21.50	PK
11440	39.95	0.14	H	40.09	53.98	13.89	AV
17160	51.27	1.35	H	52.62	68.20	15.58	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11490	52.22	-0.14	V	52.08	73.98	21.90	PK
11490	39.27	-0.14	V	39.13	53.98	14.85	AV
17235	50.94	1.61	V	52.55	68.20	15.65	PK
11490	52.74	-0.14	H	52.60	73.98	21.38	PK
11490	39.25	-0.14	H	39.11	53.98	14.87	AV
17235	51.60	1.61	H	53.21	68.20	14.99	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

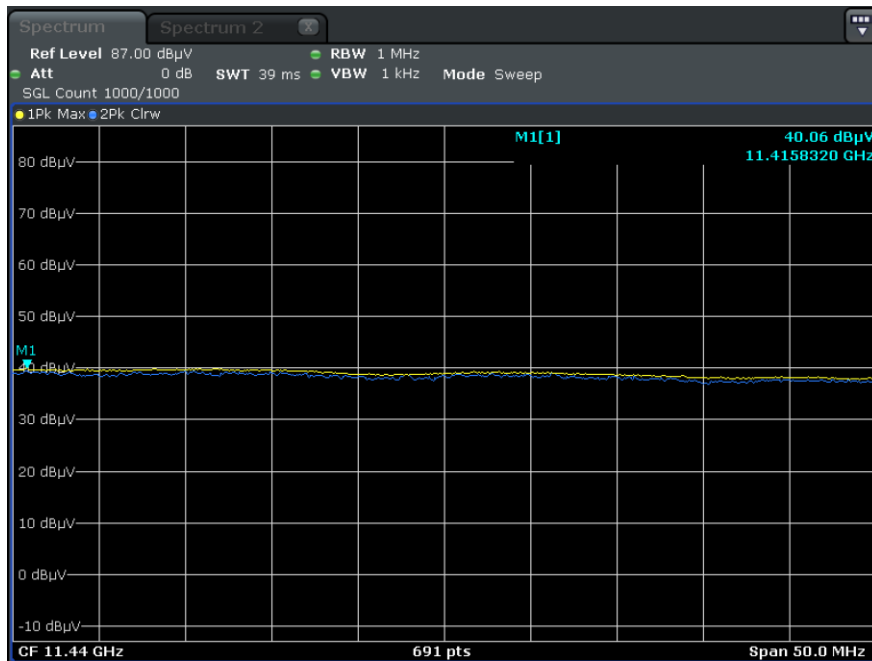
Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	52.28	0.07	V	52.35	73.98	21.63	PK
11570	39.59	0.07	V	39.66	53.98	14.32	AV
17355	51.49	1.69	V	53.18	68.20	15.02	PK
11570	52.39	0.07	H	52.46	73.98	21.52	PK
11570	39.50	0.07	H	39.57	53.98	14.41	AV
17355	52.28	1.69	H	53.97	68.20	14.23	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

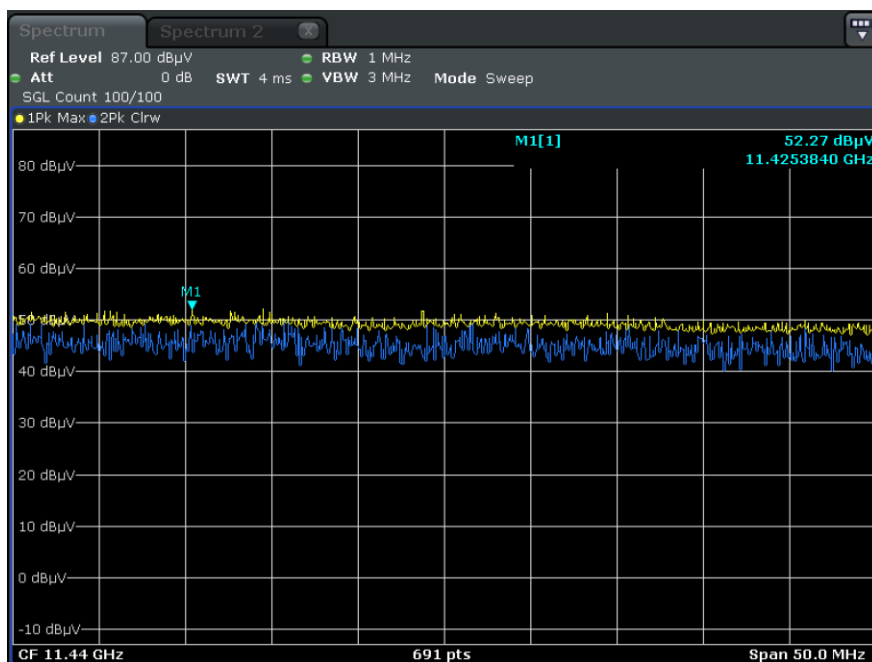
Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11650	52.47	-0.70	V	51.77	73.98	22.21	PK
11650	39.48	-0.70	V	38.78	53.98	15.20	AV
17475	50.90	2.65	V	53.55	68.20	14.65	PK
11650	52.53	-0.70	H	51.83	73.98	22.15	PK
11650	39.43	-0.70	H	38.73	53.98	15.25	AV
17475	50.58	2.65	H	53.23	68.20	14.97	PK

▣ Test Plots

Average Result (802.11a, Ch.144 2nd Harmonic, X-V)



Peak Result (802.11a, Ch.144 2nd Harmonic, X-V)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.8 RADIATED RESTRICTED BAND EDGE

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	49.62	6.72	H	56.34	73.98	17.64	PK
5150	37.79	6.72	H	44.51	53.98	9.47	AV
5150	49.41	6.72	V	56.13	73.98	17.85	PK
5150	37.42	6.72	V	44.14	53.98	9.84	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	46.55	7.24	H	53.79	73.98	20.19	PK
5350	33.27	7.24	H	40.51	53.98	13.47	AV
5350	46.98	7.24	V	54.22	73.98	19.76	PK
5350	32.86	7.24	V	40.1	53.98	13.88	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.32	7.90	H	52.22	73.98	21.76	PK
5460	31.02	7.90	H	38.92	53.98	15.06	AV
5470	47.57	8.24	H	55.81	68.20	12.39	PK
5460	44.65	7.90	V	52.55	73.98	21.43	PK
5460	31.14	7.90	V	39.04	53.98	14.94	AV
5470	48.26	8.24	V	56.5	68.20	11.70	PK

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	51.71	6.72	H	58.43	73.98	15.55	PK
5150	38.00	6.72	H	44.72	53.98	9.26	AV
5150	51.55	6.72	V	58.27	73.98	15.71	PK
5150	37.85	6.72	V	44.57	53.98	9.41	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.99	7.24	H	53.23	73.98	20.75	PK
5350	32.98	7.24	H	40.22	53.98	13.76	AV
5350	46.40	7.24	V	53.64	73.98	20.34	PK
5350	32.52	7.24	V	39.76	53.98	14.22	AV

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	45.02	7.90	H	52.92	73.98	21.06	PK
5460	31.08	7.90	H	38.98	53.98	15.00	AV
5470	48.84	8.24	H	57.08	68.20	11.12	PK
5460	45.16	7.90	V	53.06	73.98	20.92	PK
5460	31.58	7.90	V	39.48	53.98	14.50	AV
5470	49.76	8.24	V	58	68.20	10.20	PK

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	49.19	6.72	H	55.91	73.98	18.07	PK
5150	36.31	6.72	H	43.03	53.98	10.95	AV
5150	48.95	6.72	V	55.67	73.98	18.31	PK
5150	36.12	6.72	V	42.84	53.98	11.14	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.59	7.24	H	52.83	73.98	21.15	PK
5350	32.75	7.24	H	39.99	53.98	13.99	AV
5350	44.95	7.24	V	52.19	73.98	21.79	PK
5350	31.45	7.24	V	38.69	53.98	15.29	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	43.09	7.90	H	50.99	73.98	22.99	PK
5460	29.42	7.90	H	37.32	53.98	16.66	AV
5470	44.72	8.24	H	52.96	68.20	15.24	PK
5460	43.21	7.90	V	51.11	73.98	22.87	PK
5460	29.72	7.90	V	37.62	53.98	16.36	AV
5470	45.20	8.24	V	53.44	68.20	14.76	PK

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	47.02	13.63	H	60.65	73.98	13.33	PK
5150	36.22	13.63	H	49.85	53.98	4.13	AV
5150	45.85	13.63	V	59.48	73.98	14.50	PK
5150	34.25	13.63	V	47.88	53.98	6.10	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	47.52	14.13	H	61.65	73.98	12.33	PK
5350	33.59	14.13	H	47.72	53.98	6.26	AV
5350	47.22	14.13	V	61.35	73.98	12.63	PK
5350	33.42	14.13	V	47.55	53.98	6.43	AV

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	41.51	14.77	H	56.28	73.98	17.70	PK
5460	28.59	14.77	H	43.36	53.98	10.62	AV
5470	42.02	15.12	H	57.14	68.20	11.06	PK
5460	41.75	14.77	V	56.52	73.98	17.46	PK
5460	28.91	14.77	V	43.68	53.98	10.30	AV
5470	42.36	15.12	V	57.48	68.20	10.72	PK

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	46.77	13.63	H	60.40	73.98	13.58	PK
5150	35.74	13.63	H	49.37	53.98	4.61	AV
5150	46.55	13.63	V	60.18	73.98	13.80	PK
5150	35.48	13.63	V	49.11	53.98	4.87	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	47.70	14.13	H	61.83	73.98	12.15	PK
5350	33.42	14.13	H	47.55	53.98	6.43	AV
5350	47.48	14.13	V	61.61	73.98	12.37	PK
5350	33.02	14.13	V	47.15	53.98	6.83	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	41.49	14.77	H	56.26	73.98	17.72	PK
5460	28.68	14.77	H	43.45	53.98	10.53	AV
5470	41.98	15.12	H	57.1	68.20	11.10	PK
5460	41.70	14.77	V	56.47	73.98	17.51	PK
5460	28.91	14.77	V	43.68	53.98	10.30	AV
5470	42.18	15.12	V	57.3	68.20	10.90	PK

Band :	UNII 1
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	48.74	13.63	H	62.37	73.98	11.61	PK
5150	38.03	13.63	H	51.66	53.98	2.32	AV
5150	48.55	13.63	V	62.18	73.98	11.80	PK
5150	37.85	13.63	V	51.48	53.98	2.50	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

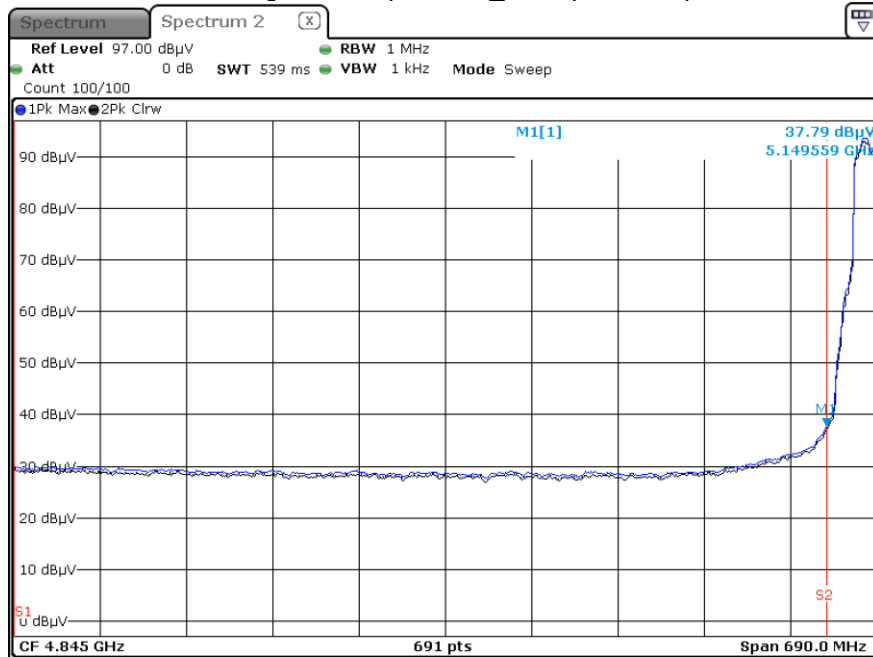
Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.38	14.13	H	59.51	73.98	14.47	PK
5350	33.83	14.13	H	47.96	53.98	6.02	AV
5350	45.16	14.13	V	59.29	73.98	14.69	PK
5350	33.67	14.13	V	47.8	53.98	6.18	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

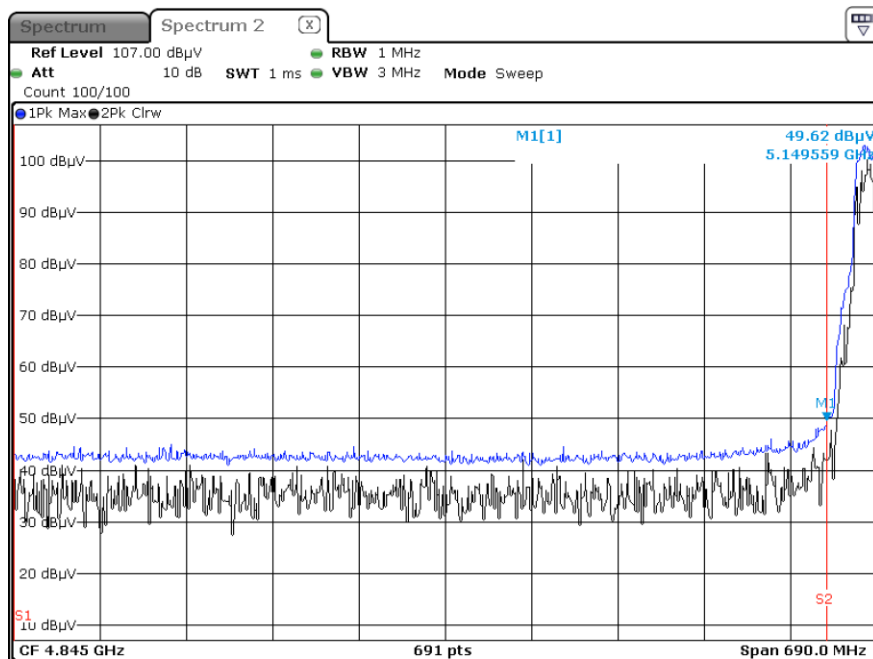
Frequency [MHz]	Measured Value [dBμV]	A.F+C.L- A.G+ATT+D.F [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	42.44	14.77	H	57.21	73.98	16.77	PK
5460	30.94	14.77	H	45.71	53.98	8.27	AV
5470	43.01	15.12	H	58.13	68.20	10.07	PK
5460	42.06	14.77	V	56.83	73.98	17.15	PK
5460	30.56	14.77	V	45.33	53.98	8.65	AV
5470	42.95	15.12	V	58.07	68.20	10.13	PK

■ Test Plots(UNII 1, 2A, 2C)_(X-H)

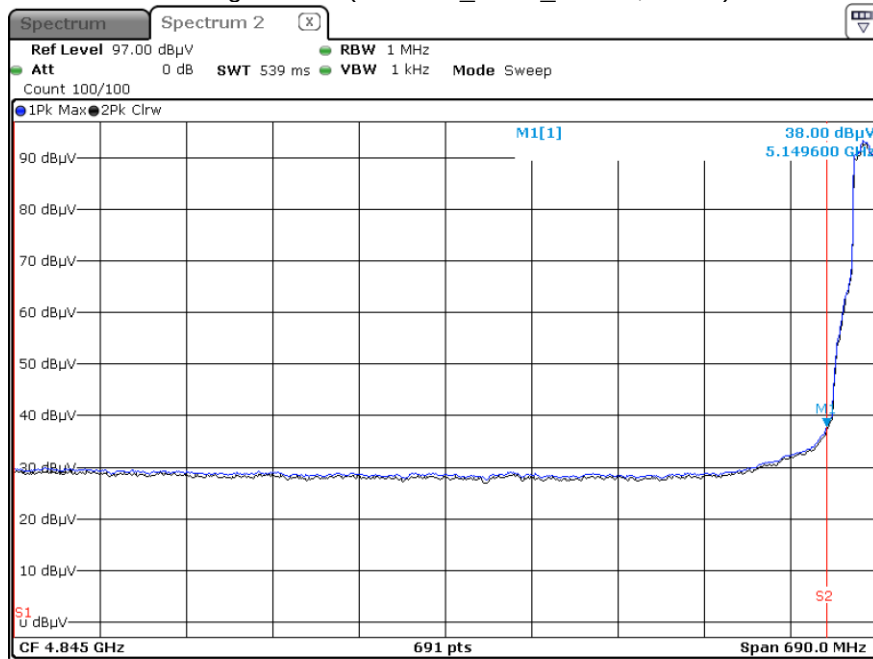
Average Result (802.11a_ 6 Mbps, Ch.36)



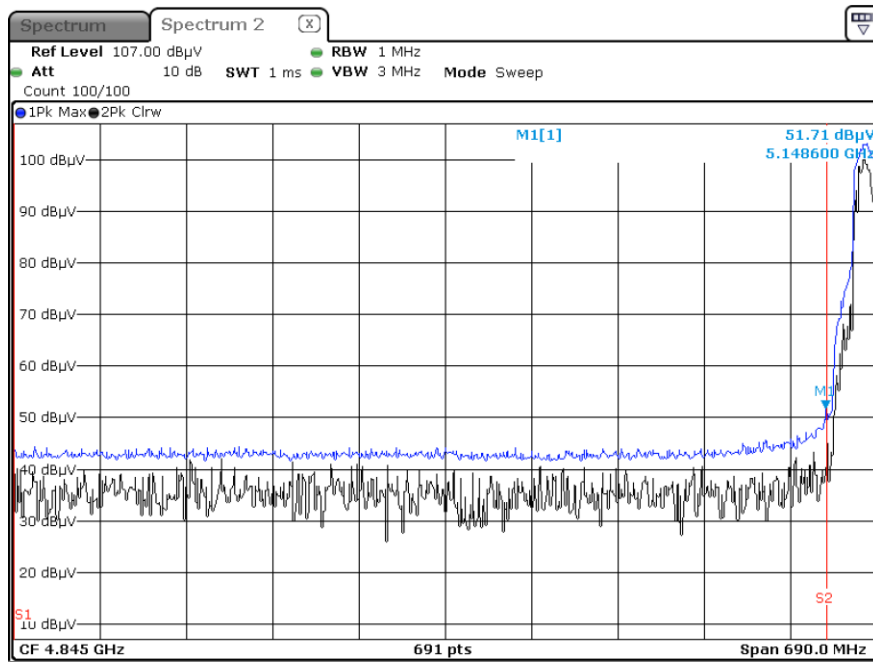
Peak Result (802.11a_ 6 Mbps, Ch.36)



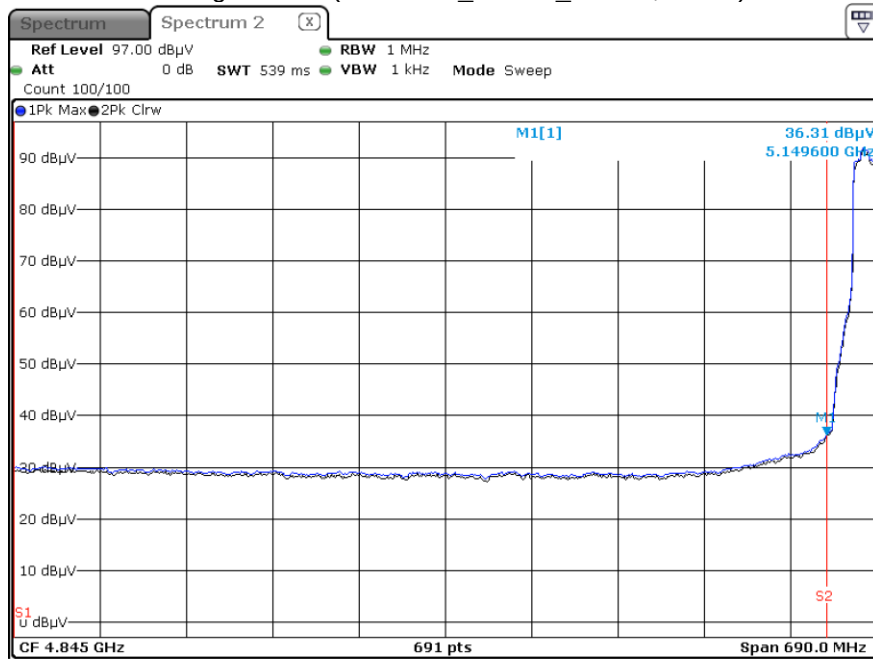
Average Result (802.11 n_HT20_ MCS0, Ch.36)



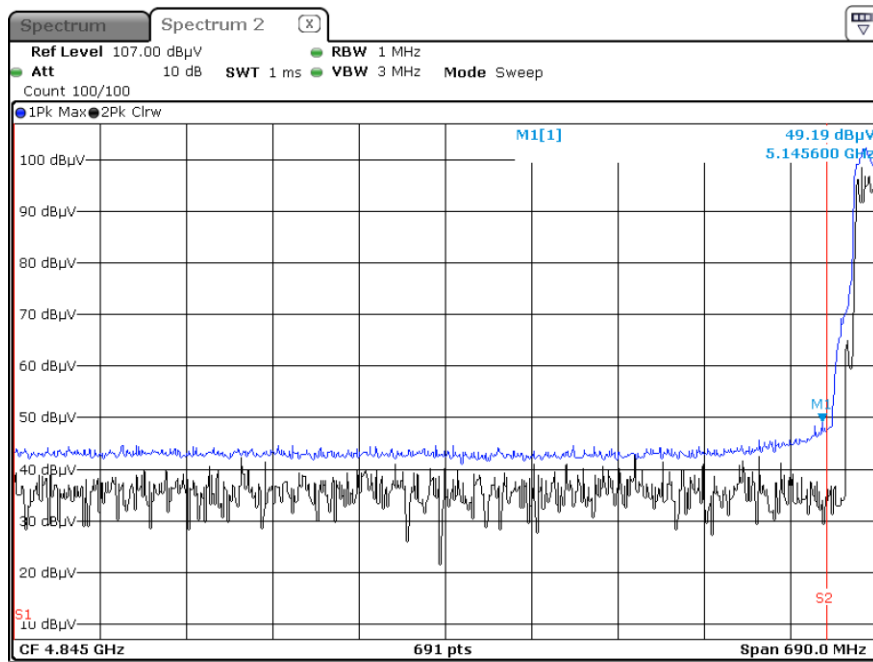
Peak Result (802.11 n_HT20_ MCS0, Ch.36)



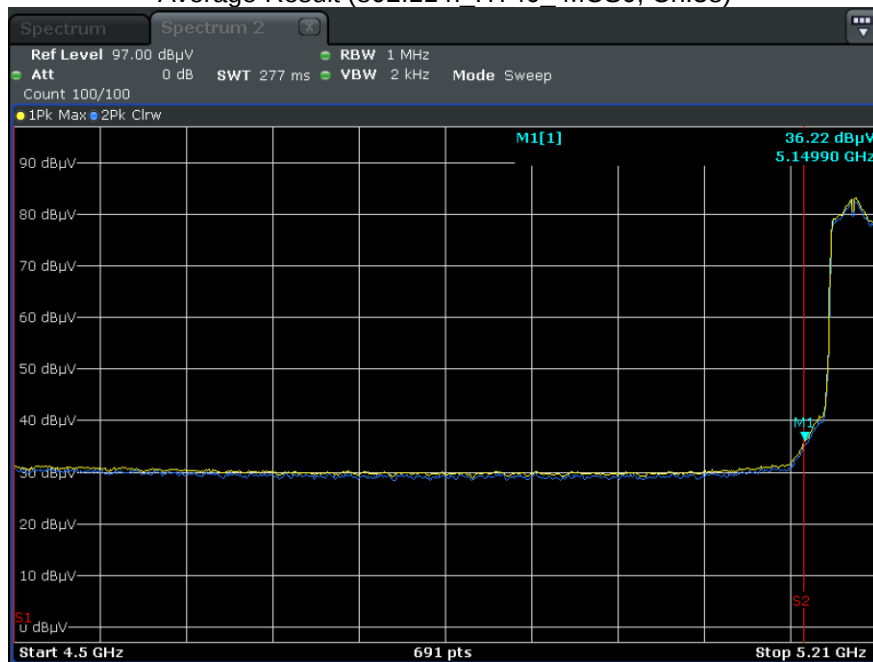
Average Result (802.11 ac_VHT20_ MCS0, Ch.36)



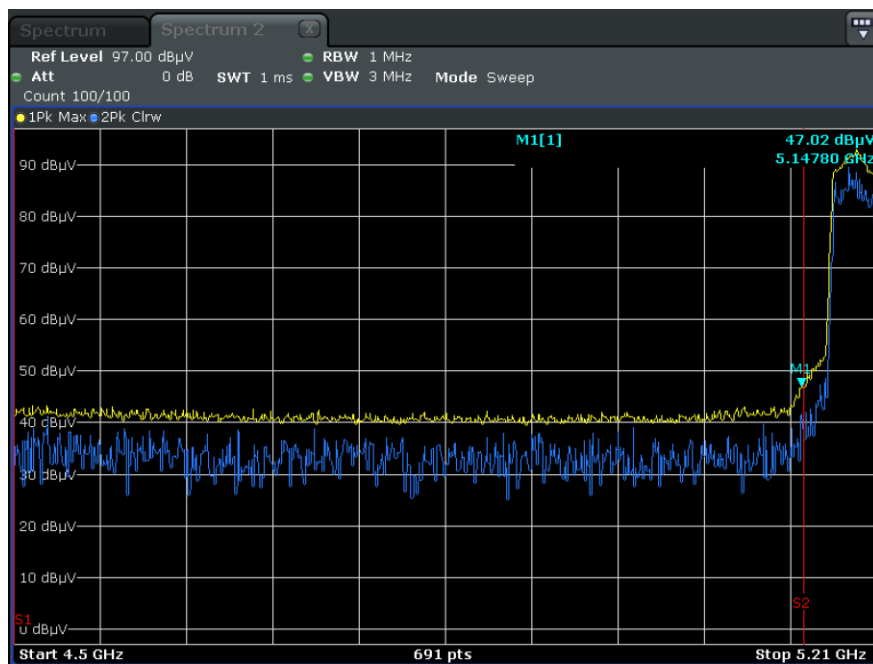
Peak Result (802.11 ac_VHT20_ MCS0, Ch.36)



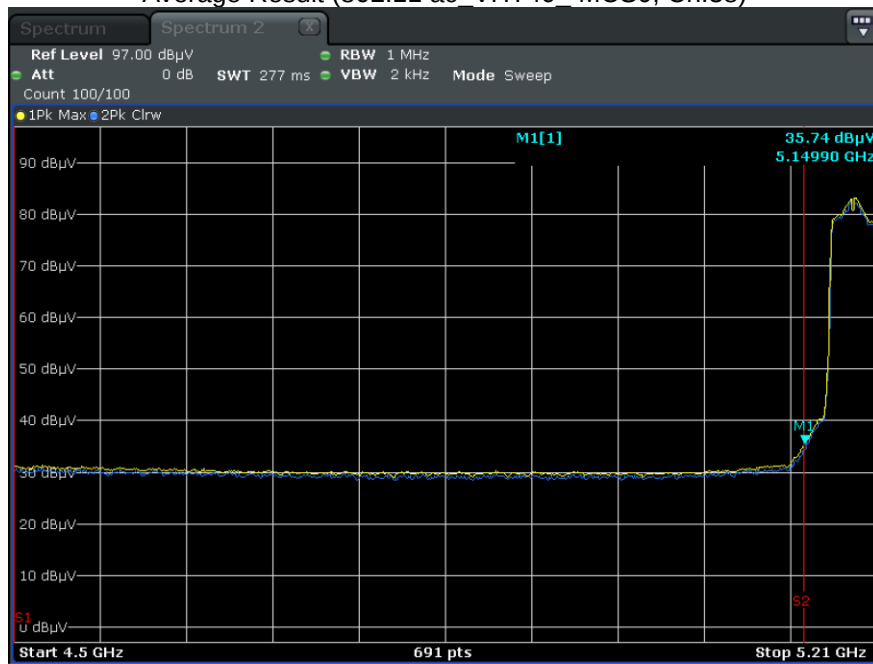
Average Result (802.11 n_HT40 MCS0, Ch.38)



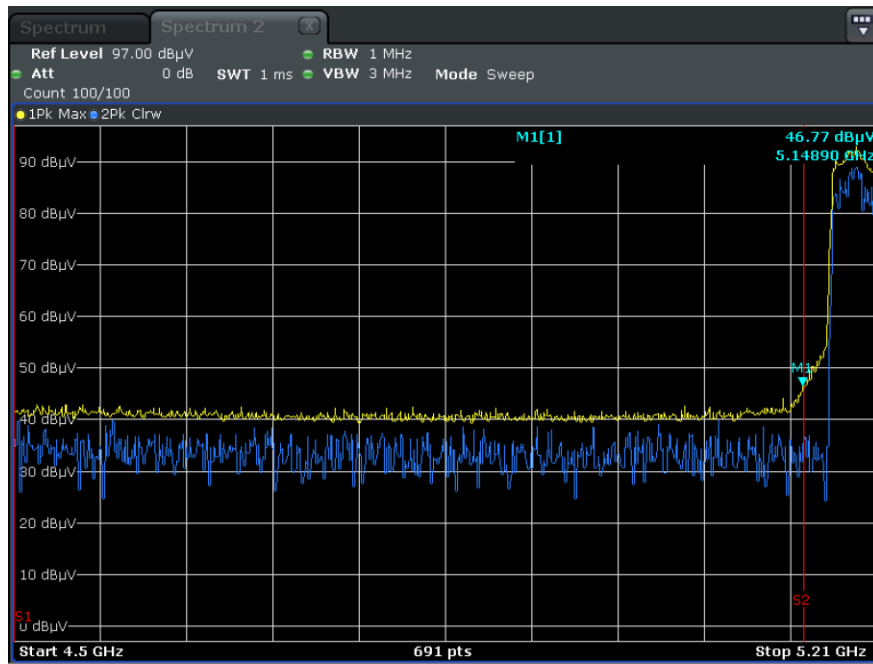
Peak Result (802.11 n_HT40_ MCS0, Ch.38)



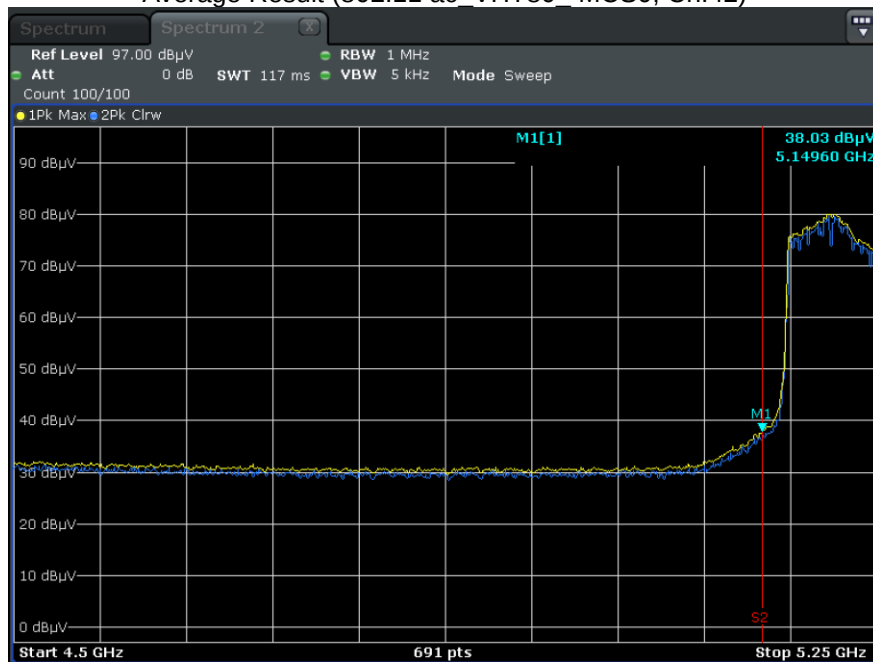
Average Result (802.11 ac_VHT40 MCS0, Ch.38)



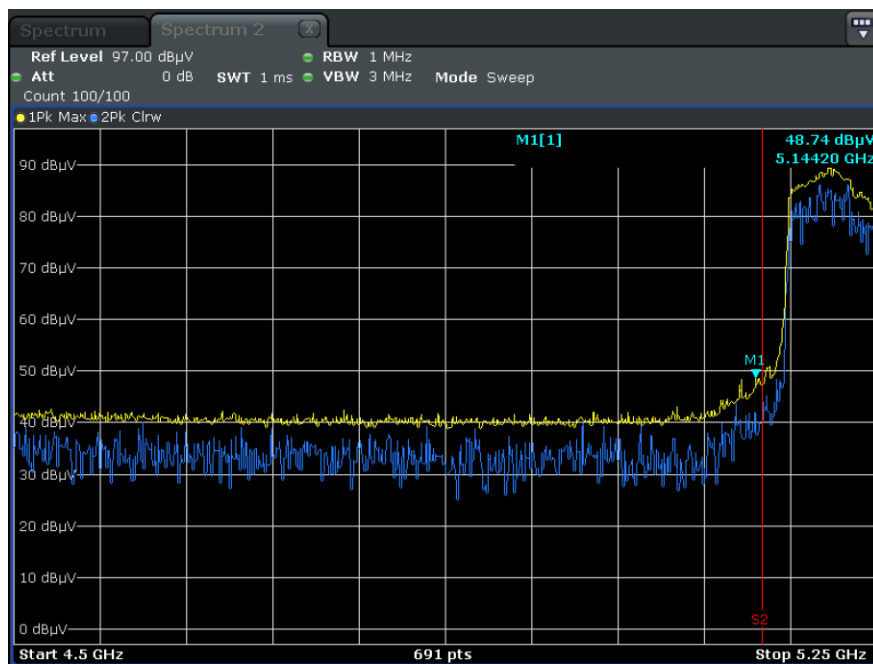
Peak Result (802.11 ac_VHT40_ MCS0, Ch.38)



Average Result (802.11 ac_VHT80 MCS0, Ch.42)



Peak Result (802.11 ac_VHT80 MCS0, Ch.42)

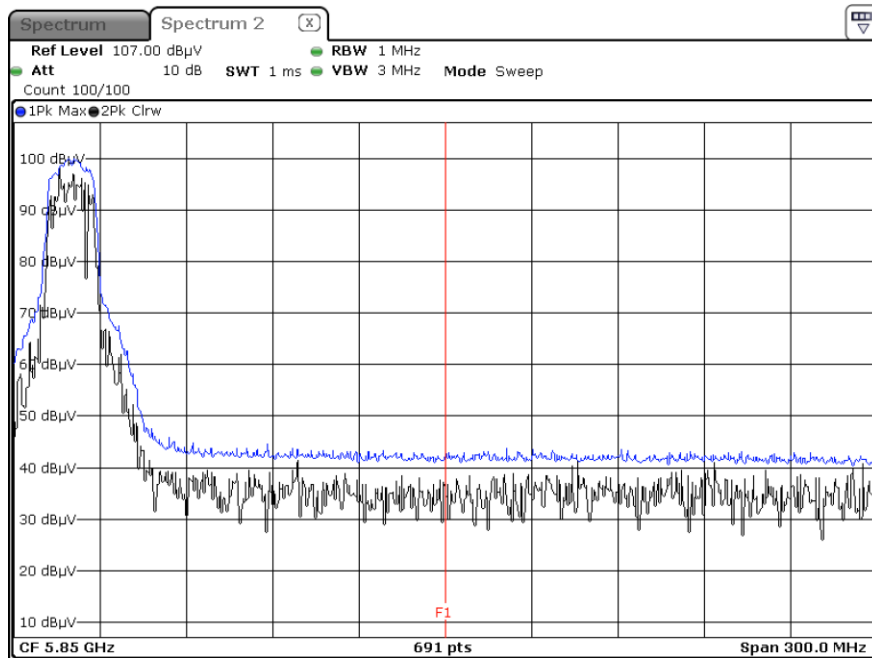


Note:

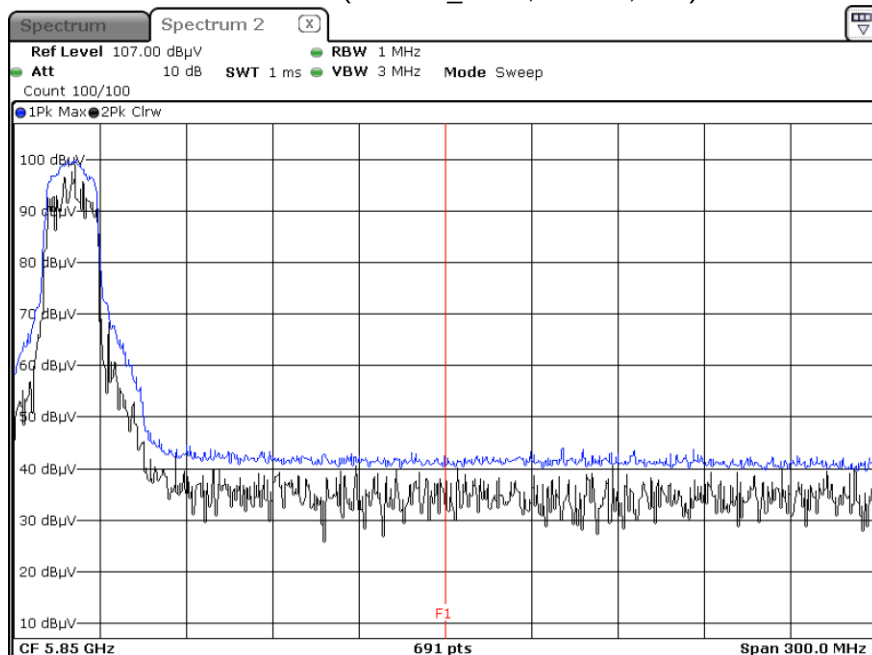
Only the worst case plots for Radiated Restricted Band Edge.

■ Test Plots(Straddle Channel)

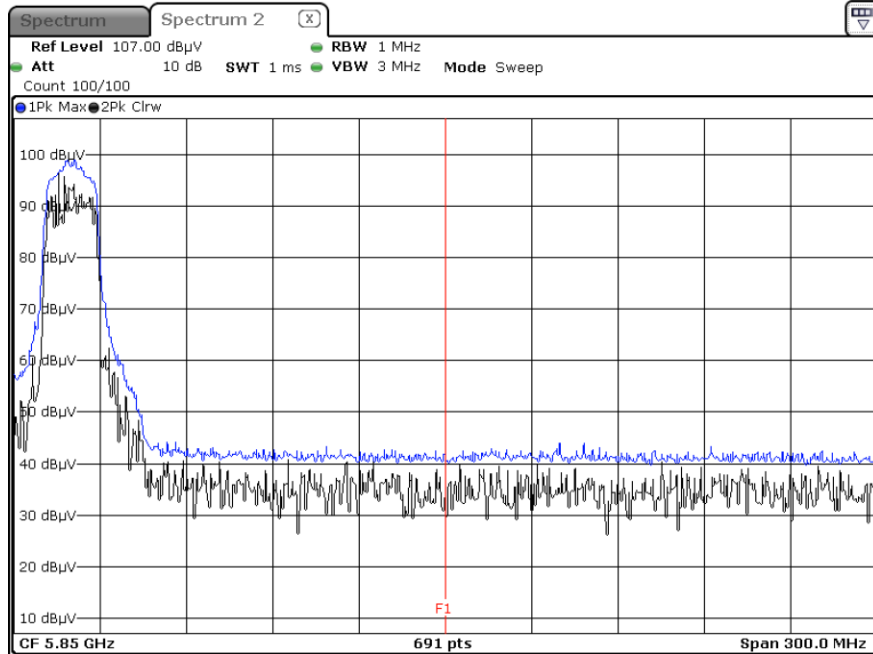
Peak Result (802.11a, Ch.144, X-H)



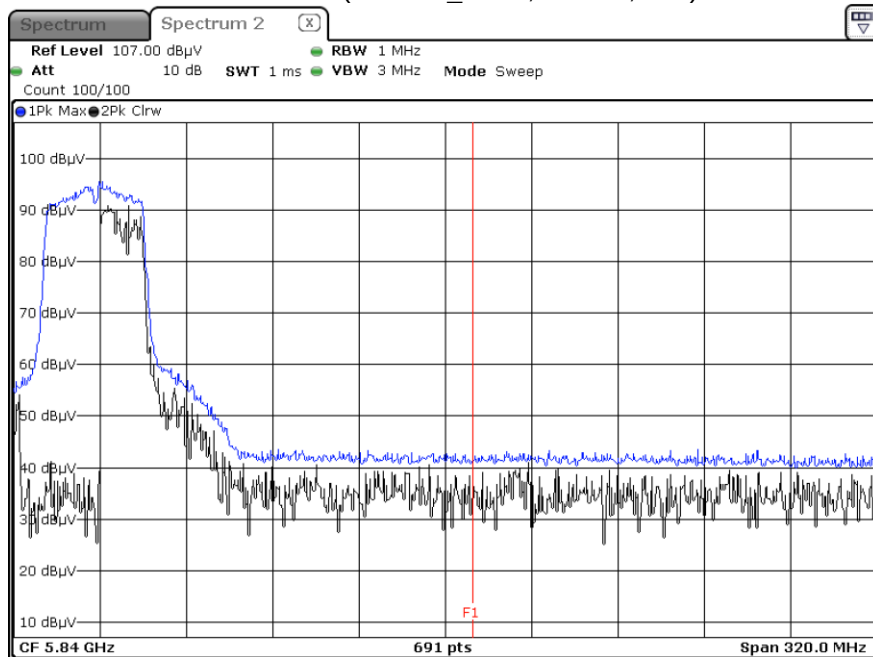
Peak Result (802.11n_HT20, Ch.144, X-H)



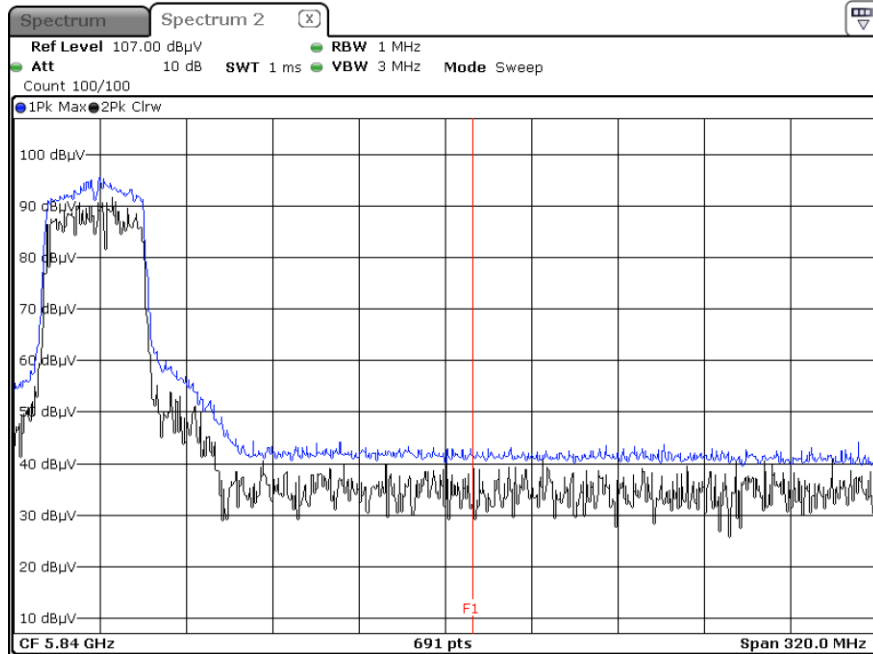
Peak Result (802.11ac_VHT20, Ch.144, X-H)



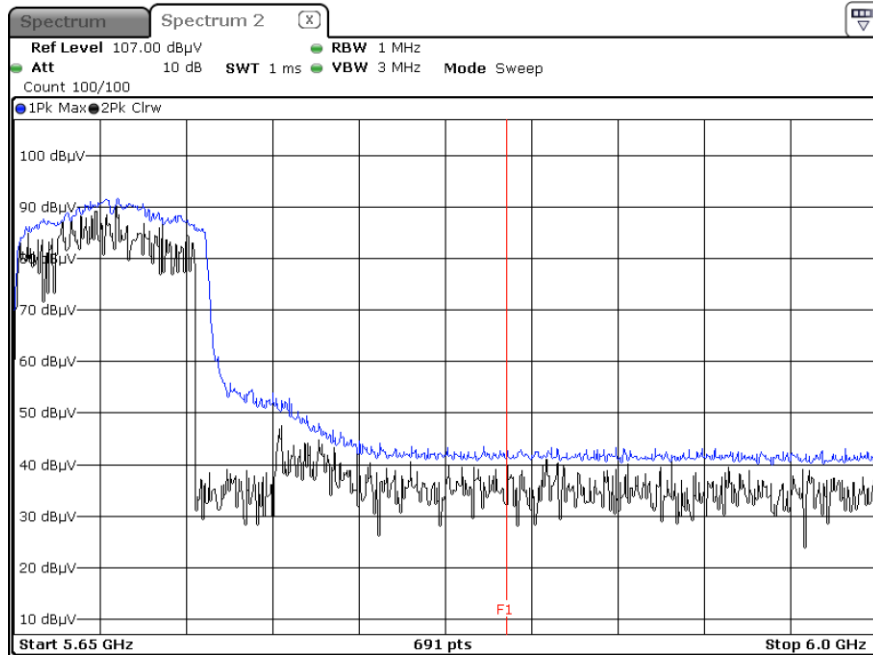
Peak Result (802.11n_HT40, Ch.142, X-H)



Peak Result (802.11ac_VHT40, Ch.142, X-H)



Peak Result (802.11ac_VHT80, Ch.138, X-H)

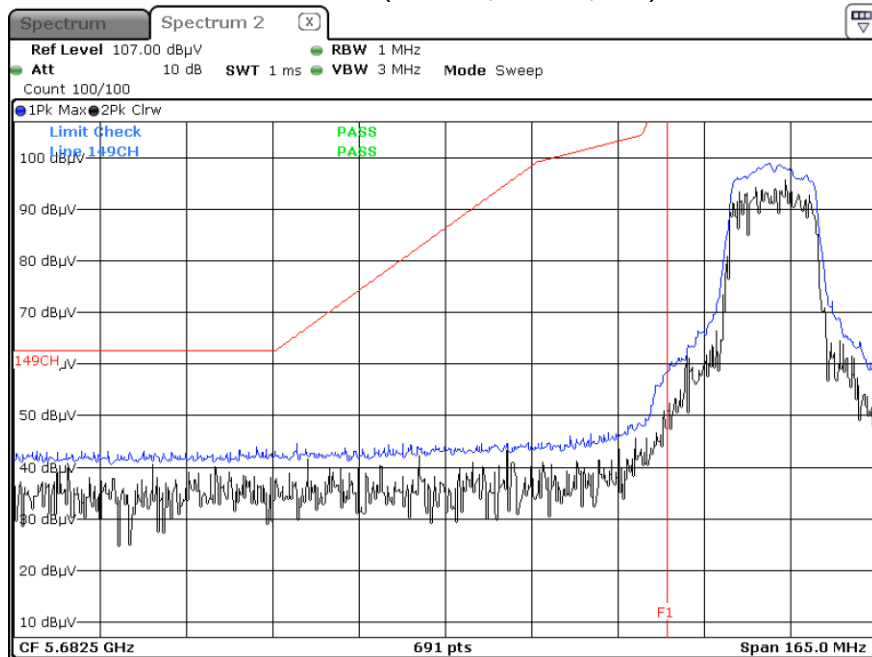


Note :

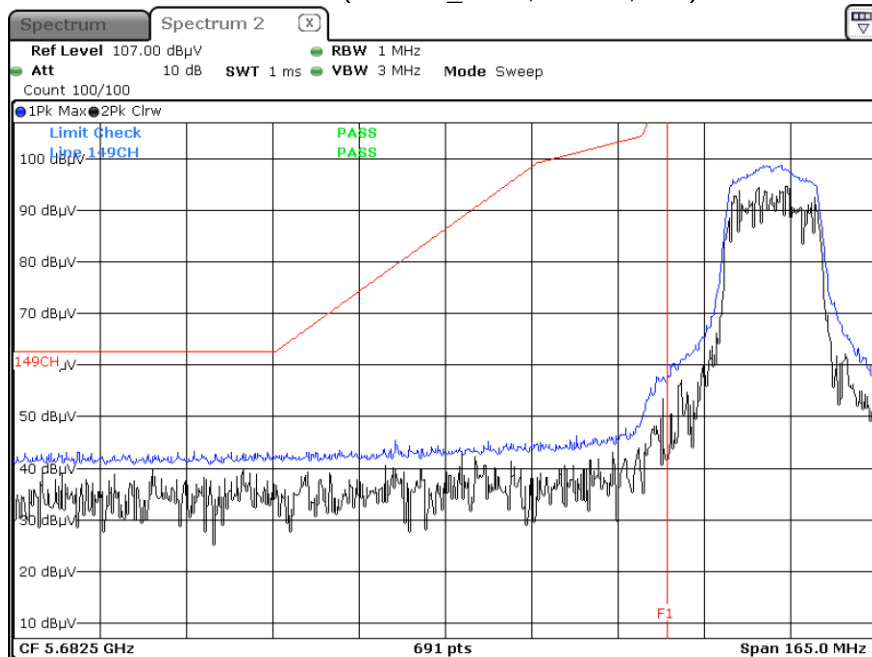
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

■ Test Plots(UNII 3)

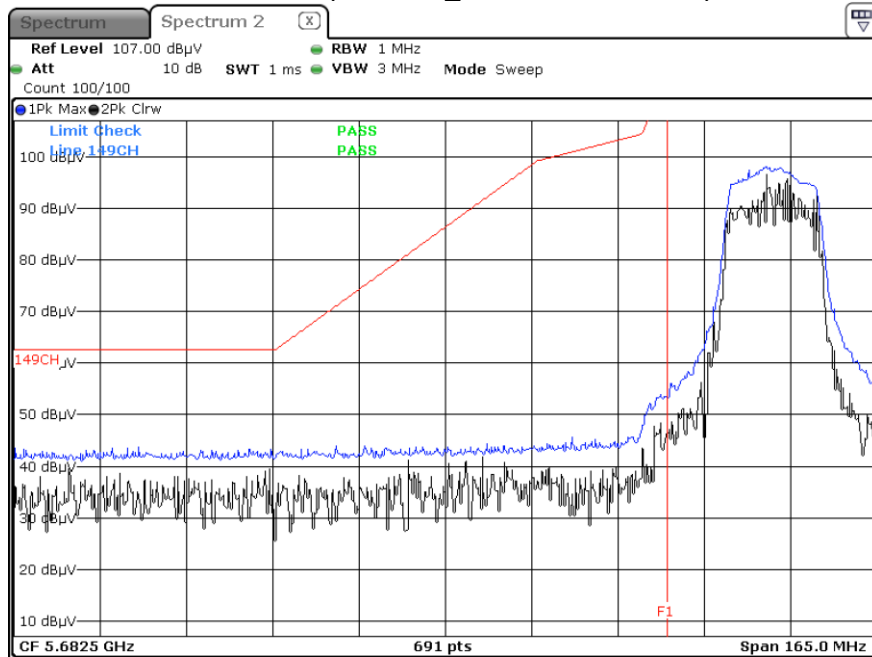
Peak Result (802.11a, Ch.149, X-H)



Peak Result (802.11n_HT20, Ch.149, X-H)



Peak Result (802.11ac_VHT20, Ch.149, X-H)



Peak Result (802.11n_HT40, Ch.151, X-H)

