

PSD NVNT ax20 26@0 5320MHz Ant2 MIMO



PSD NVNT ax20 26@0 5500MHz Ant1 MIMO



PSD NVNT ax20 26@0 5500MHz Ant2 MIMO



PSD NVNT ax20 26@0 5580MHz Ant1 MIMO



PSD NVNT ax20 26@0 5580MHz Ant2 MIMO



PSD NVNT ax20 26@0 5720MHz Ant1 MIMO



PSD NVNT ax20 26@0 5720MHz Ant2 MIMO



PSD NVNT ax20 26@0 5745MHz Ant1 MIMO



PSD NVNT ax20 26@0 5745MHz Ant2 MIMO



PSD NVNT ax20 26@0 5785MHz Ant1 MIMO



PSD NVNT ax20 26@0 5785MHz Ant2 MIMO



PSD NVNT ax20 26@0 5825MHz Ant1 MIMO



PSD NVNT ax20 26@0 5825MHz Ant2 MIMO



PSD NVNT ax20 52@37 5180MHz Ant1 SISO



PSD NVNT ax20 52@37 5220MHz Ant1 SISO



PSD NVNT ax20 52@37 5240MHz Ant1 SISO



PSD NVNT ax20 52@37 5260MHz Ant1 SISO



PSD NVNT ax20 52@37 5300MHz Ant1 SISO





PSD NVNT ax20 52@37 5320MHz Ant1 SISO



PSD NVNT ax20 52@37 5500MHz Ant1 SISO



PSD NVNT ax20 52@37 5580MHz Ant1 SISO



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PSD NVNT ax20 52@37 5825MHz Ant1 SISO



PSD NVNT ax20 52@37 5180MHz Ant2 SISO



PSD NVNT ax20 52@37 5220MHz Ant2 SISO



PSD NVNT ax20 52@37 5240MHz Ant2 SISO



PSD NVNT ax20 52@37 5260MHz Ant2 SISO



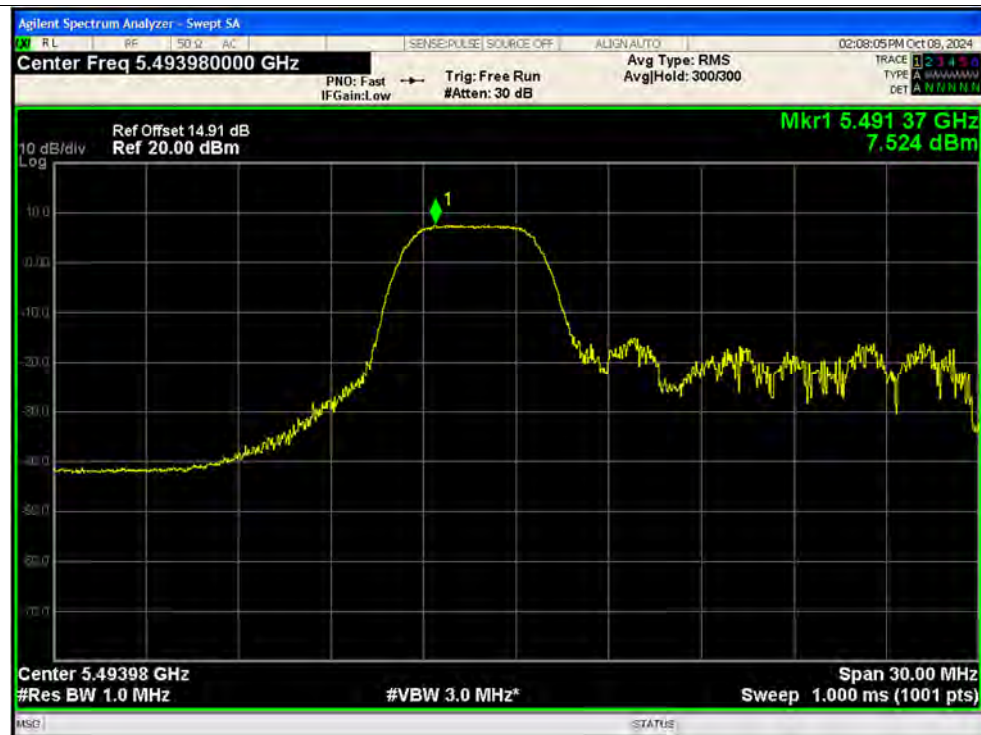
PSD NVNT ax20 52@37 5300MHz Ant2 SISO



PSD NVNT ax20 52@37 5320MHz Ant2 SISO



PSD NVNT ax20 52@37 5500MHz Ant2 SISO



PSD NVNT ax20 52@37 5580MHz Ant2 SISO



PSD NVNT ax20 52@37 5720MHz Ant2 SISO





PSD NVNT ax20 52@37 5745MHz Ant2 SISO



PSD NVNT ax20 52@37 5785MHz Ant2 SISO



PSD NVNT ax20 52@37 5825MHz Ant2 SISO



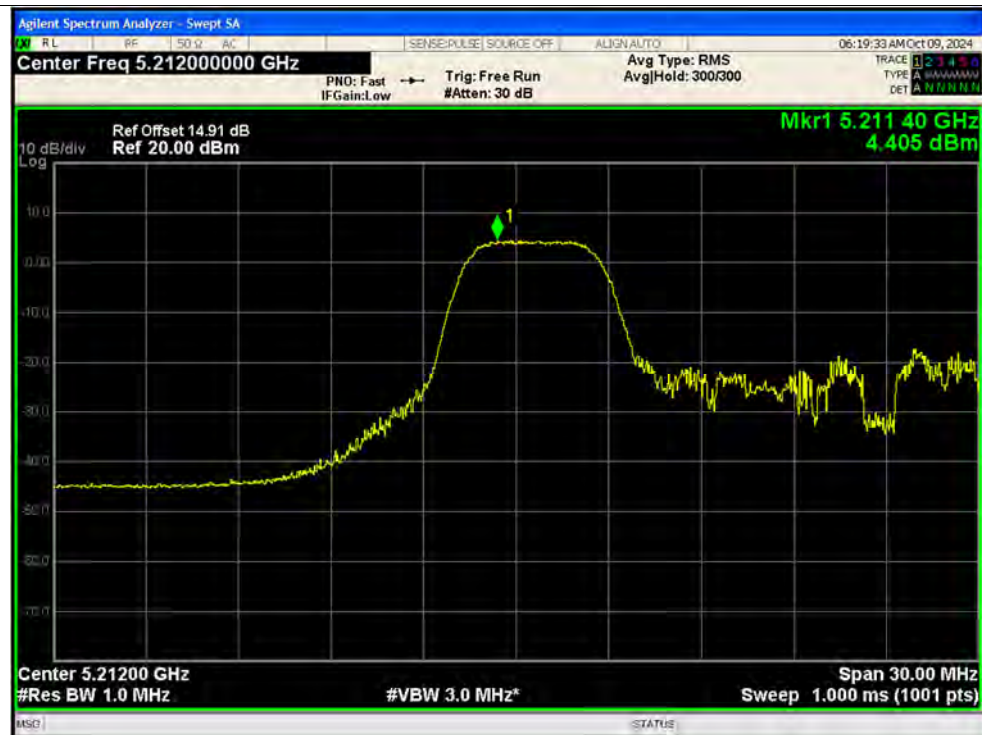
PSD NVNT ax20 52@37 5180MHz Ant1 MIMO



PSD NVNT ax20 52@37 5180MHz Ant2 MIMO



PSD NVNT ax20 52@37 5220MHz Ant1 MIMO



PSD NVNT ax20 52@37 5220MHz Ant2 MIMO



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PSD NVNT ax20 106@53 5240MHz Ant2 SISO



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PSD NVNT ax20 106@53 5320MHz Ant2 SISO



PSD NVNT ax20 106@53 5500MHz Ant2 SISO



PSD NVNT ax20 106@53 5580MHz Ant2 SISO



PSD NVNT ax20 106@53 5720MHz Ant2 SISO





PSD NVNT ax20 106@53 5745MHz Ant2 SISO



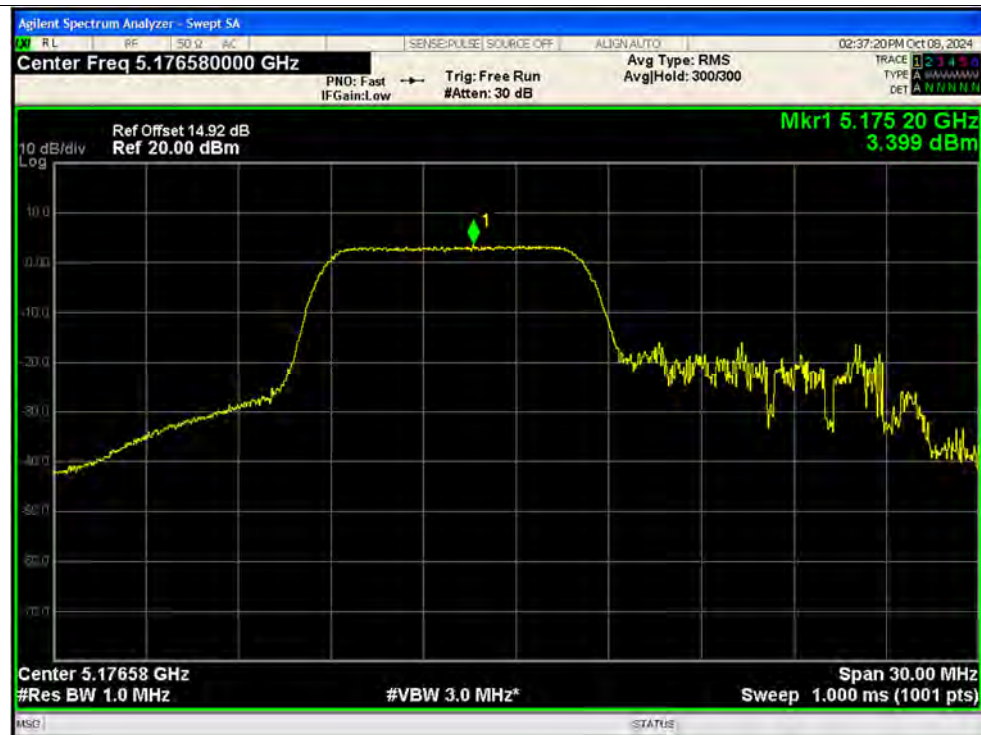
PSD NVNT ax20 106@53 5785MHz Ant2 SISO



PSD NVNT ax20 106@53 5825MHz Ant2 SISO



PSD NVNT ax20 106@53 5180MHz Ant1 MIMO



PSD NVNT ax20 106@53 5180MHz Ant2 MIMO



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PSD NVNT ax20 106@53 5825MHz Ant1 MIMO



PSD NVNT ax20 106@53 5825MHz Ant2 MIMO



PSD NVNT ax40 26@0 5190MHz Ant1 SISO



PSD NVNT ax40 26@0 5190MHz Ant2 SISO



PSD NVNT ax40 26@0 5190MHz Ant1 MIMO



PSD NVNT ax40 26@0 5190MHz Ant2 MIMO



PSD NVNT ax40 52@37 5190MHz Ant1 SISO



PSD NVNT ax40 52@37 5190MHz Ant2 SISO



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PSD NVNT ax40 52@37 5190MHz Ant2 MIMO



PSD NVNT ax40 106@53 5190MHz Ant1 SISO



PSD NVNT ax40 106@53 5190MHz Ant2 SISO



PSD NVNT ax40 106@53 5190MHz Ant1 MIMO



PSD NVNT ax40 106@53 5190MHz Ant2 MIMO



PSD NVNT ax80 26@0 5210MHz Ant1 SISO



PSD NVNT ax80 26@0 5210MHz Ant2 SISO



PSD NVNT ax80 26@0 5210MHz Ant1 MIMO



PSD NVNT ax80 26@0 5210MHz Ant2 MIMO



PSD NVNT ax80 52@37 5210MHz Ant1 SISO



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PSD NVNT ax80 106@53 5210MHz Ant2 SISO



PSD NVNT ax80 106@53 5210MHz Ant1 MIMO



PSD NVNT ax80 106@53 5210MHz Ant2 MIMO



PSD NVNT ax160 26@0 5250MHz Ant1 SISO



PSD NVNT ax160 26@0 5250MHz Ant2 SISO



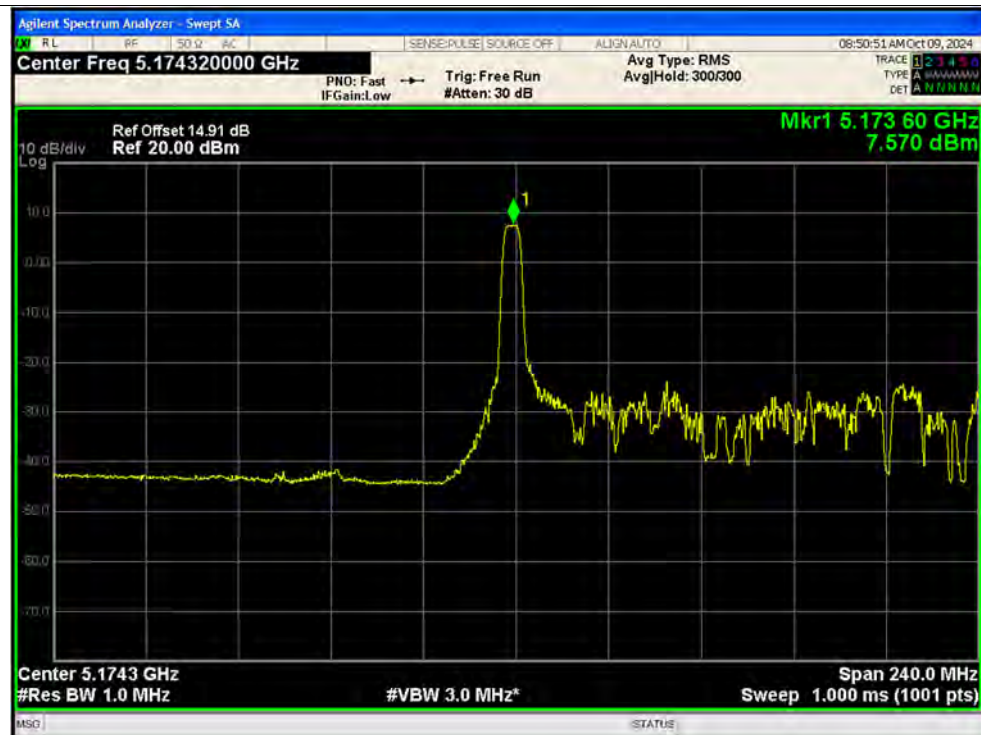
PSD NVNT ax160 26@0 5250MHz Ant1 MIMO



PSD NVNT ax160 26@0 5250MHz Ant2 MIMO



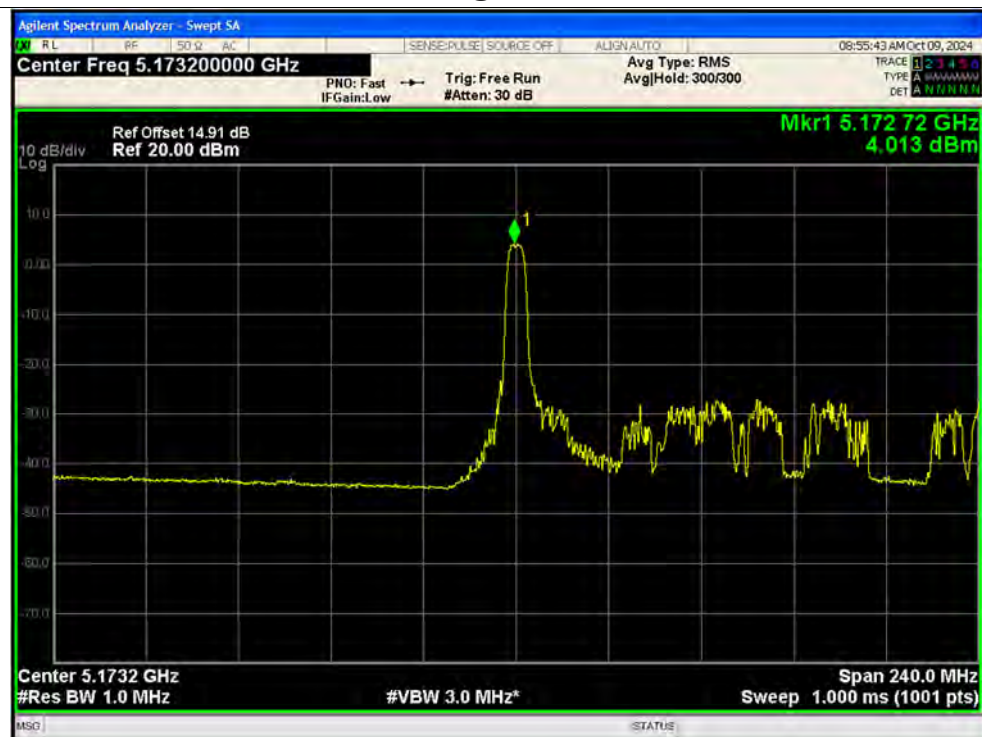
PSD NVNT ax160 52@74 5250MHz Ant1 SISO



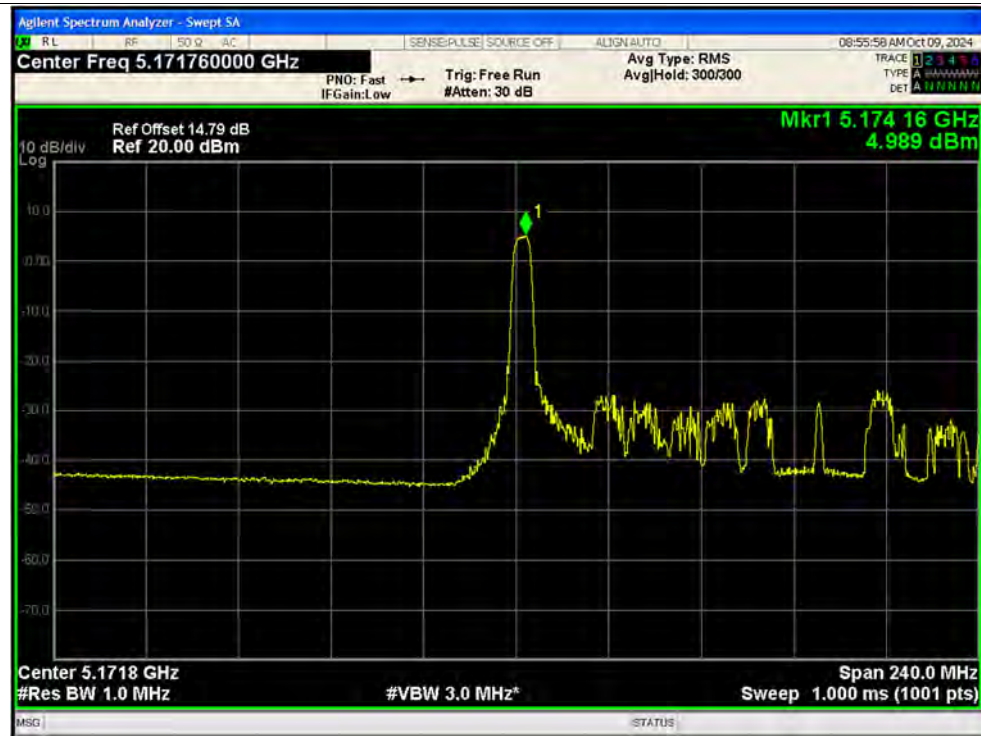
PSD NVNT ax160 52@74 5250MHz Ant2 SISO



PSD NVNT ax160 52@74 5250MHz Ant1 MIMO



PSD NVNT ax160 52@74 5250MHz Ant2 MIMO



PSD NVNT ax160 106@106 5250MHz Ant1 SISO

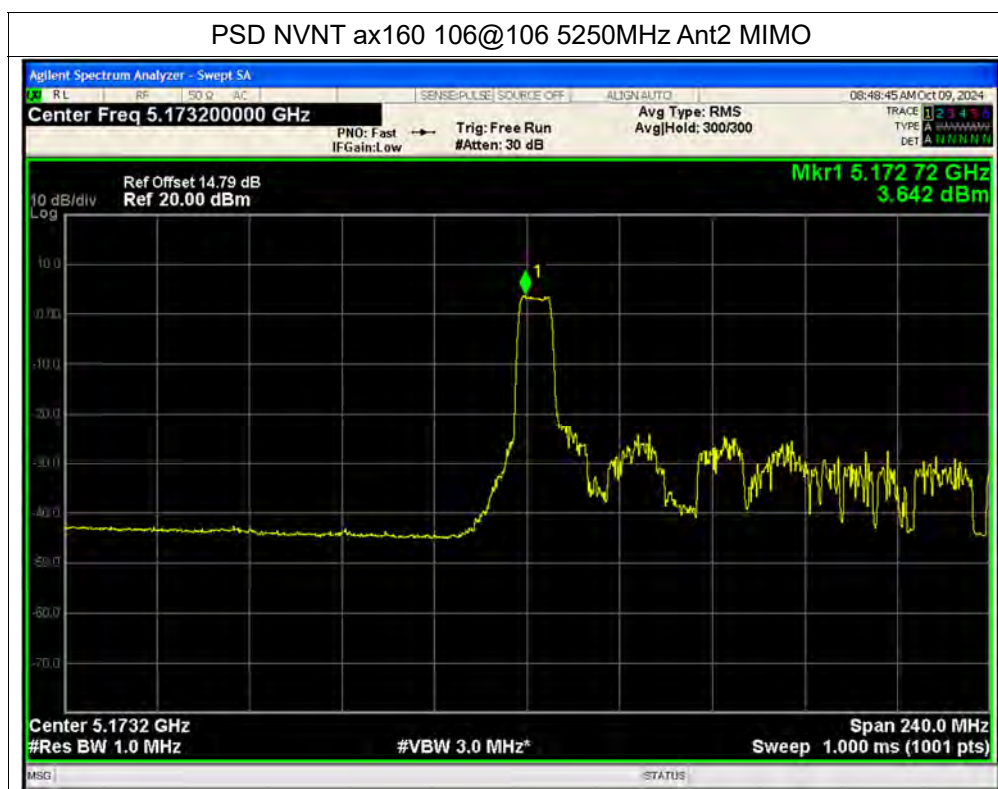


PSD NVNT ax160 106@106 5250MHz Ant2 SISO



PSD NVNT ax160 106@106 5250MHz Ant1 MIMO





**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.5V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
20C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
20C 4.45V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
-20C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
-10C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
0C 3.87V	CW	5180	Ant1	5180.018	18000	3.47	25	Pass
10C 3.87V	CW	5180	Ant1	5180.016	16000	3.09	25	Pass
30C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
40C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
50C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
60C 3.87V	CW	5180	Ant1	5180.017	17000	3.28	25	Pass
20C 3.5V	CW	5260	Ant1	5260.018	18000	3.42	25	Pass
20C 3.87V	CW	5260	Ant1	5260.017	17000	3.23	25	Pass
20C 4.45V	CW	5260	Ant1	5260.017	17000	3.23	25	Pass
-20C 3.87V	CW	5260	Ant1	5260.018	18000	3.42	25	Pass
-10C 3.87V	CW	5260	Ant1	5260.018	18000	3.42	25	Pass
0C 3.87V	CW	5260	Ant1	5260.017	17000	3.23	25	Pass
10C 3.87V	CW	5260	Ant1	5260.018	18000	3.42	25	Pass
30C 3.87V	CW	5260	Ant1	5260.017	17000	3.23	25	Pass



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40C 3.87V	CW	5260	Ant1	5260.017	17000	3.23	25	Pass
50C 3.87V	CW	5260	Ant1	5260.018	18000	3.42	25	Pass
60C 3.87V	CW	5260	Ant1	5260.017	17000	3.23	25	Pass
20C 3.5V	CW	5500	Ant1	5500.019	19000	3.45	25	Pass
20C 3.87V	CW	5500	Ant1	5500.019	19000	3.45	25	Pass
20C 4.45V	CW	5500	Ant1	5500.018	18000	3.27	25	Pass
-20C 3.87V	CW	5500	Ant1	5500.016	16000	2.91	25	Pass
-10C 3.87V	CW	5500	Ant1	5500.018	18000	3.27	25	Pass
0C 3.87V	CW	5500	Ant1	5500.02	20000	3.64	25	Pass
10C 3.87V	CW	5500	Ant1	5500.017	17000	3.09	25	Pass
30C 3.87V	CW	5500	Ant1	5500.018	18000	3.27	25	Pass
40C 3.87V	CW	5500	Ant1	5500.019	19000	3.45	25	Pass
50C 3.87V	CW	5500	Ant1	5500.018	18000	3.27	25	Pass
60C 3.87V	CW	5500	Ant1	5500.017	17000	3.09	25	Pass
20C 3.5V	CW	5745	Ant1	5745.022	22000	3.83	25	Pass
20C 3.87V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
20C 4.45V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
-20C 120V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
-10C 120V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
0C 120V	CW	5745	Ant1	5745.019	19000	3.31	25	Pass
10C 120V	CW	5745	Ant1	5745.019	19000	3.31	25	Pass
20C 120V	CW	5745	Ant1	5745.018	18000	3.13	25	Pass
30C 120V	CW	5745	Ant1	5745.021	21000	3.66	25	Pass



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40C 120V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
50C 120V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
60C 120V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass



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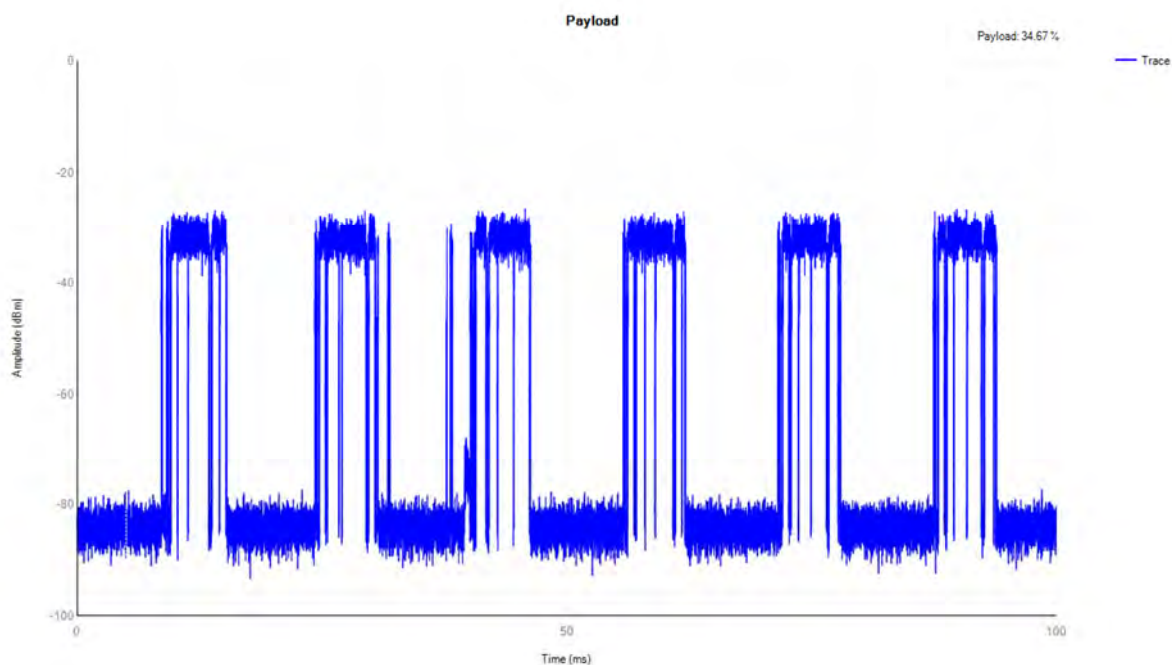
A.6. Dynamic Frequency Selection

Payload

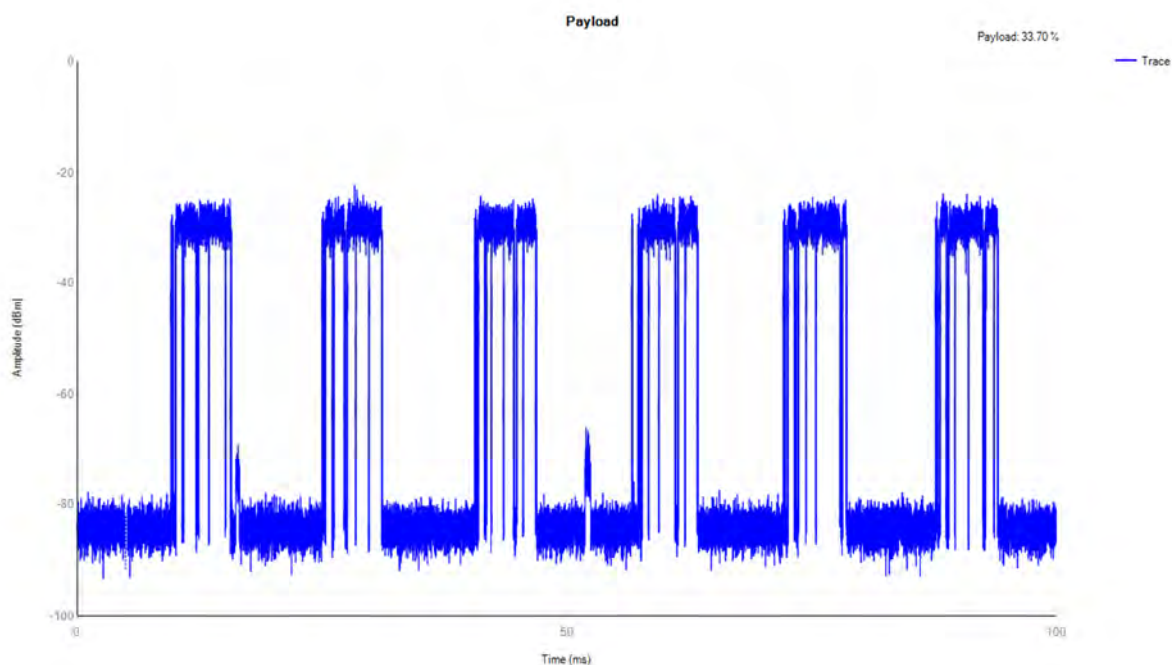
Mode	Frequency (MHz)	Result	Verdict
ac20	5260	34.67	Pass
ac20	5500	33.70	Pass
ac80	5290	34.19	Pass
ac160	5570	31.73	Pass

Test Graphs

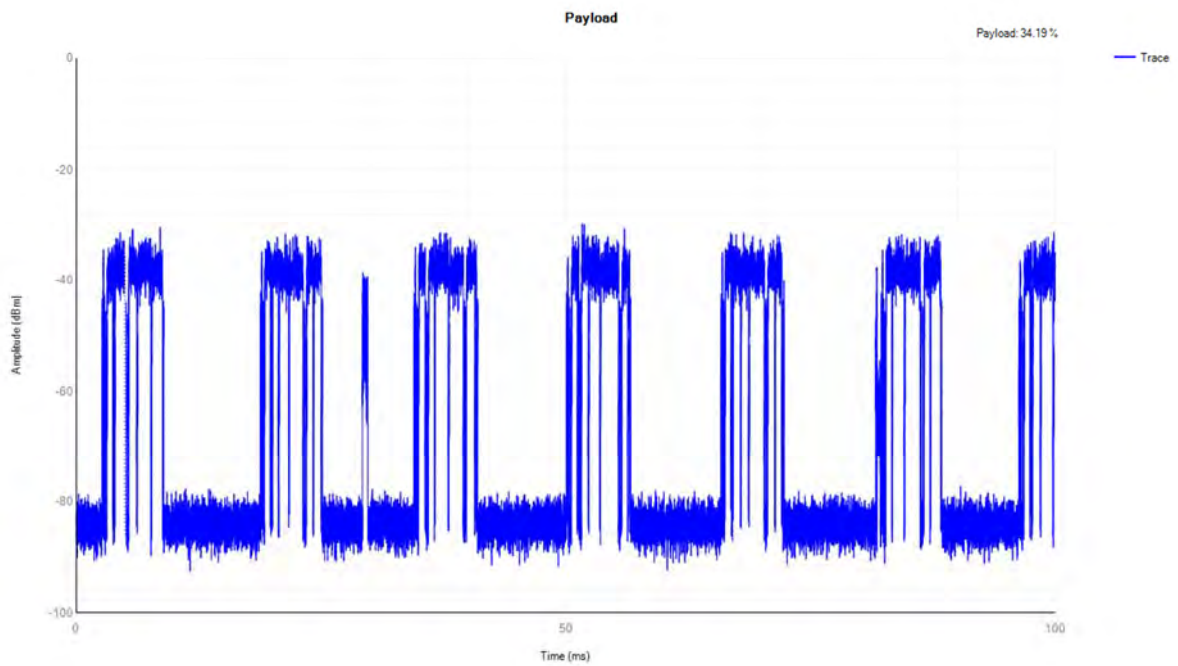
ac20 5260MHz Payload



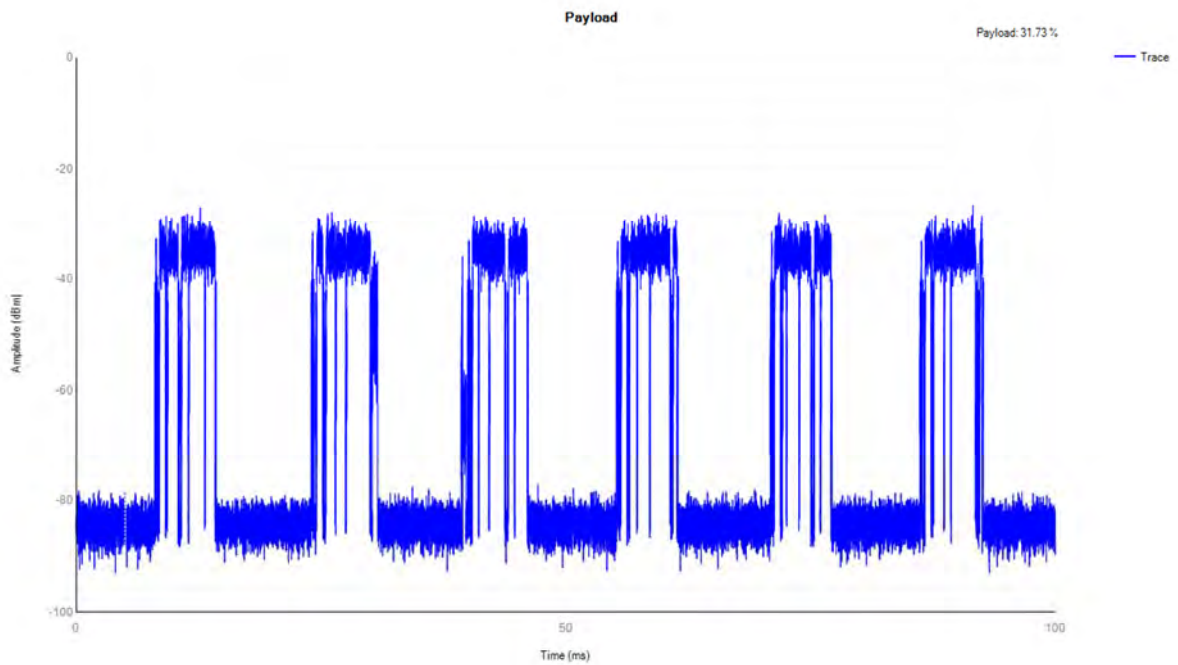
ac20 5500MHz Payload



ac80 5290MHz Payload



ac160 5570MHz Payload





Detection Thresholds

Mode	Frequency (MHz)	Type	Result	Verdict
ac20	5260	DFS_FCC_T0	See test Graph	Pass
ac20	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac160	5570	DFS_FCC_T0	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

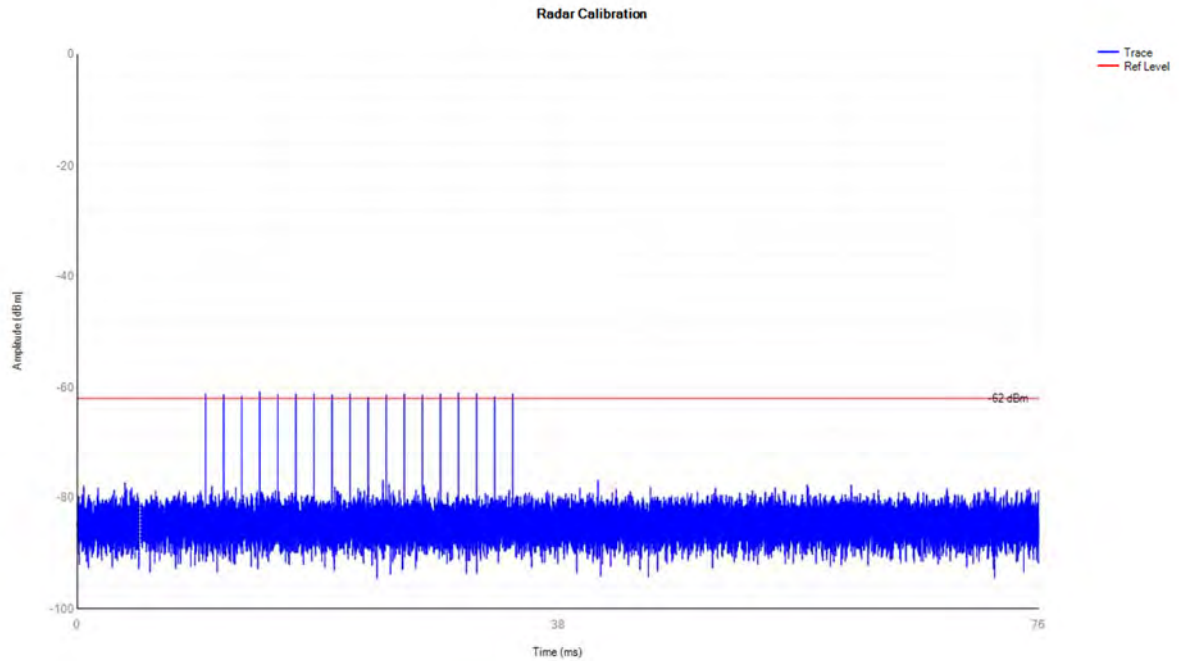
Detector Type: Peak

RBW: 3MHz

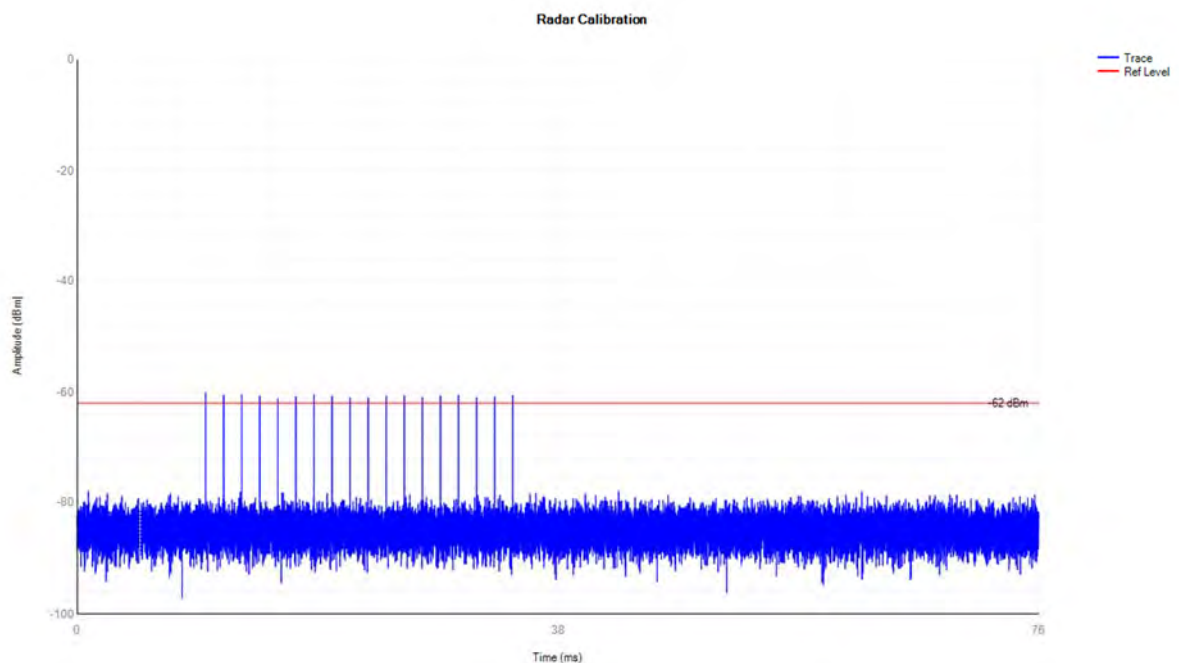
VBW: 3MHz

Test Graphs

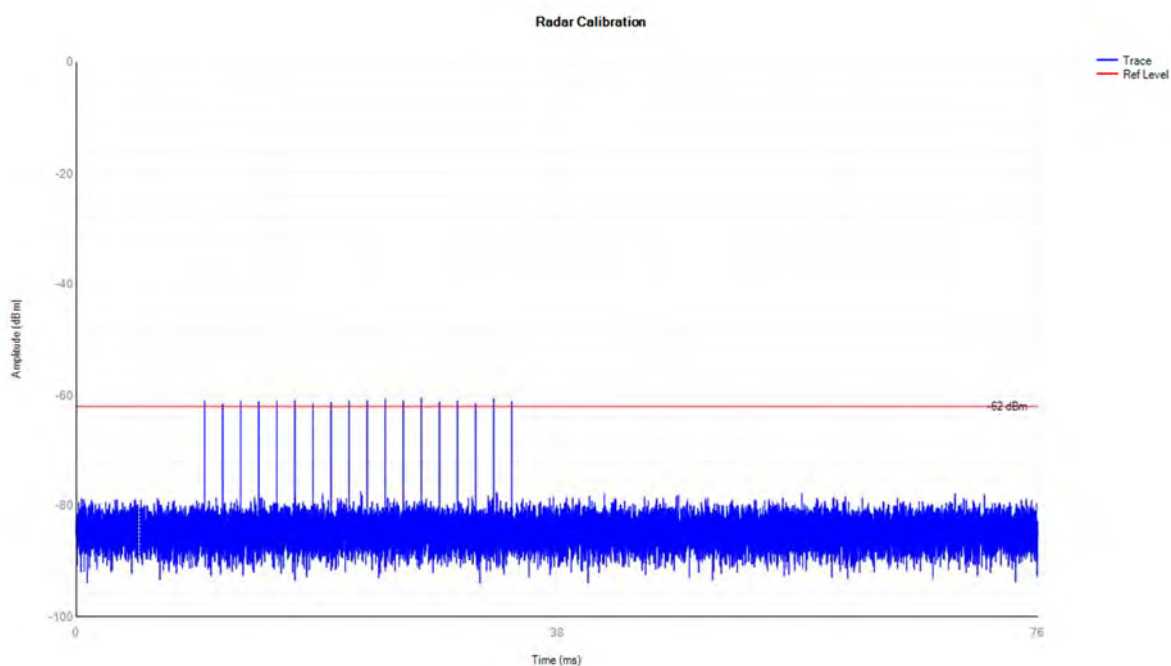
5260MHz DFS_FCC_T0



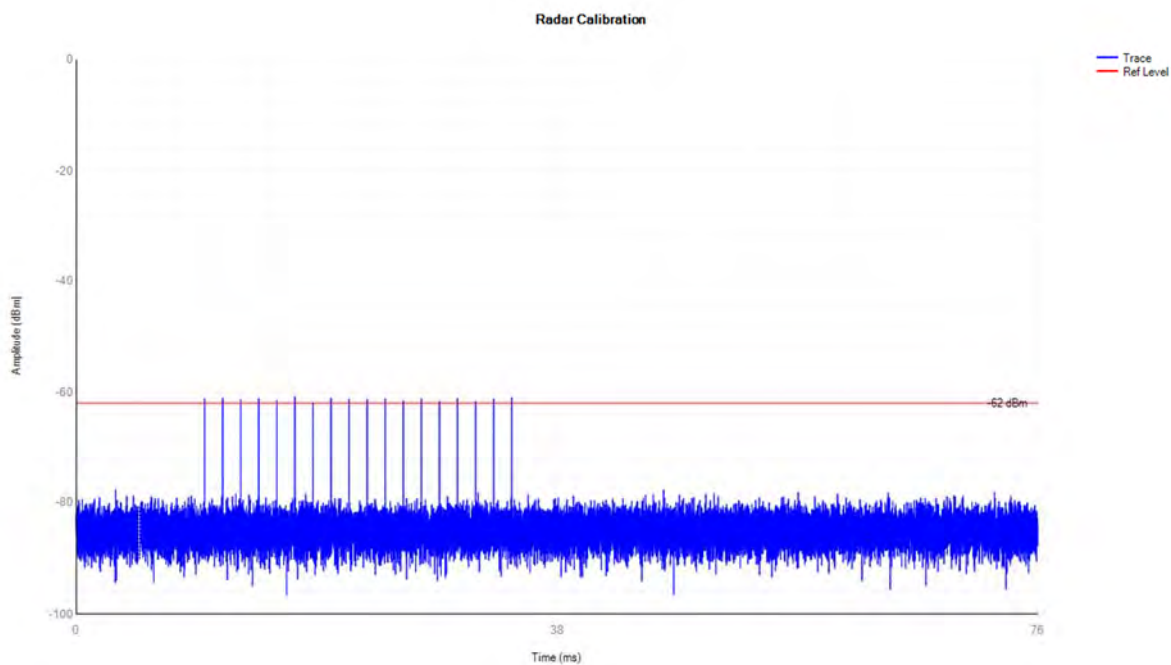
5500MHz DFS_FCC_T0



5290MHz DFS_FCC_T0



5570MHz DFS_FCC_T0





Channel Move Time and Channel Closing Transmission Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac20	5260	0.834	10	0.013	0.26	0.009	0.06	Pass
ac20	5500	0.896	10	0.021	0.26	0.009	0.06	Pass
ac80	5290	0.116	10	0.004	0.26	0	0.06	Pass
ac160	5570	0.738	10	0.013	0.26	0.008	0.06	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

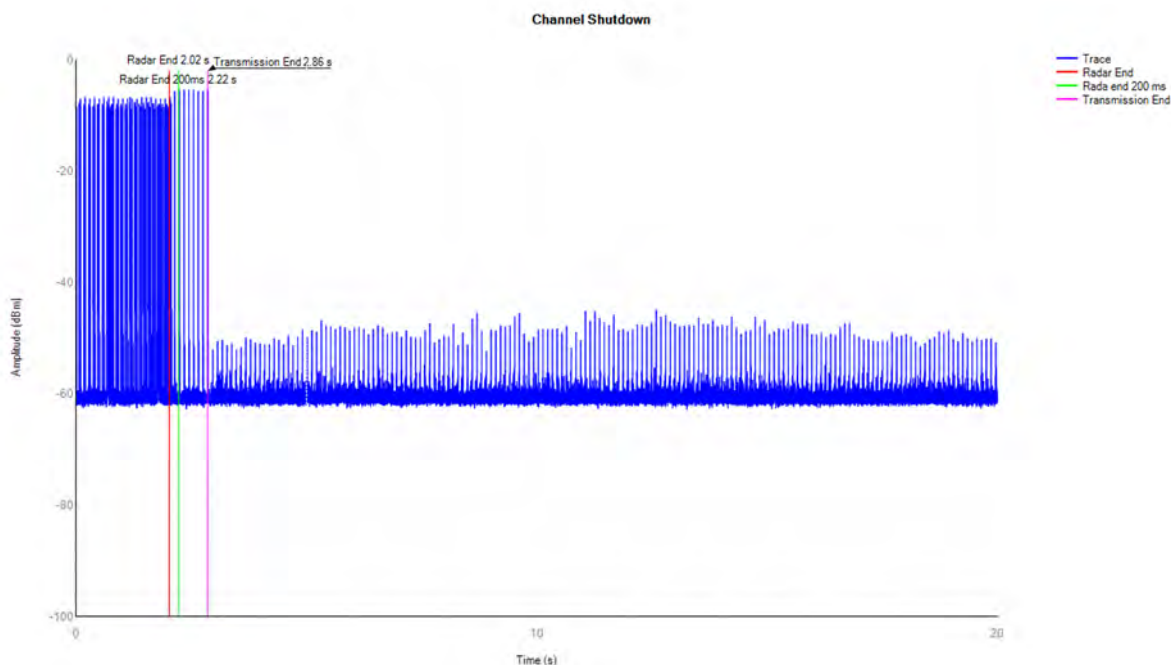
RBW: 3MHz

VBW: 3MHz

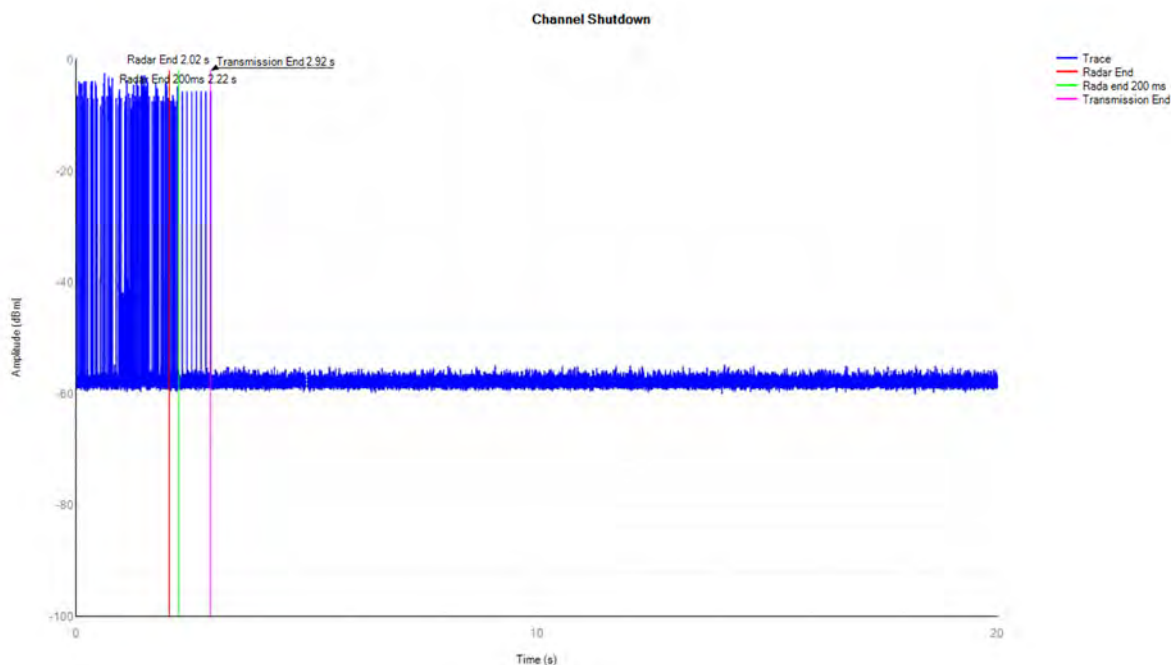
Sweep time: 20s

Test Graphs

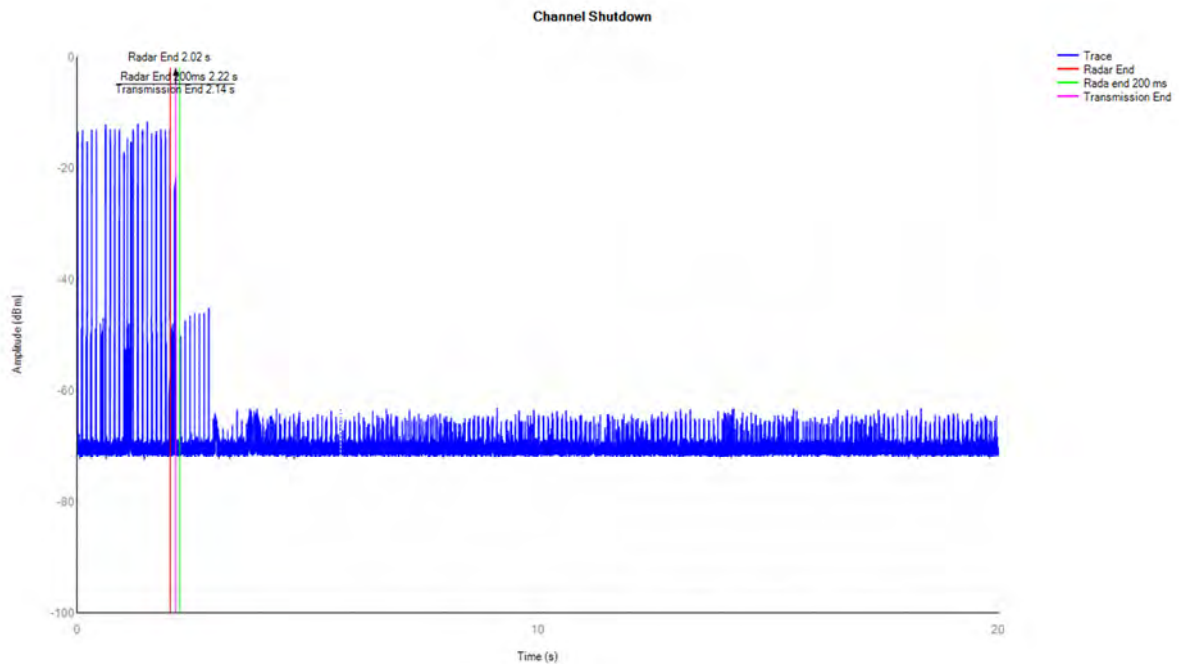
ac20 5260MHz Shutdown



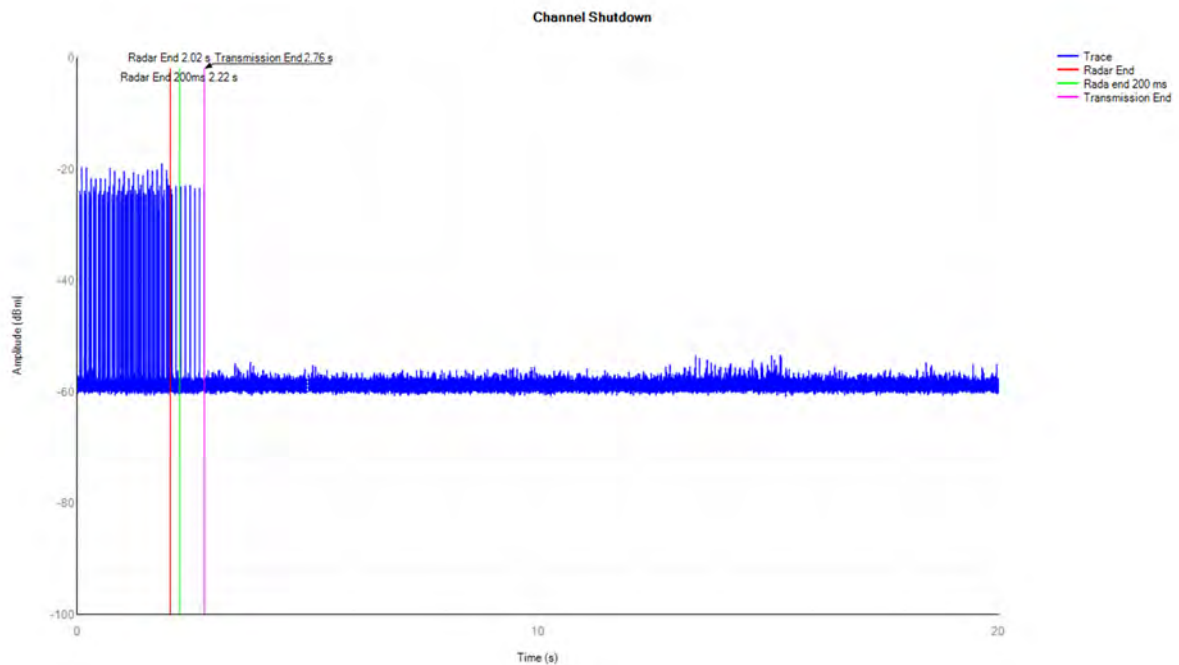
ac20 5500MHz Shutdown



ac80 5290MHz Shutdown



ac160 5570MHz Shutdown



Note: The signal above the noise floor after the radar signal ends is the signal which leaked from other channels that have been moved following the Master device.



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Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
ac20	5260	See test Graph	Pass
ac20	5500	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

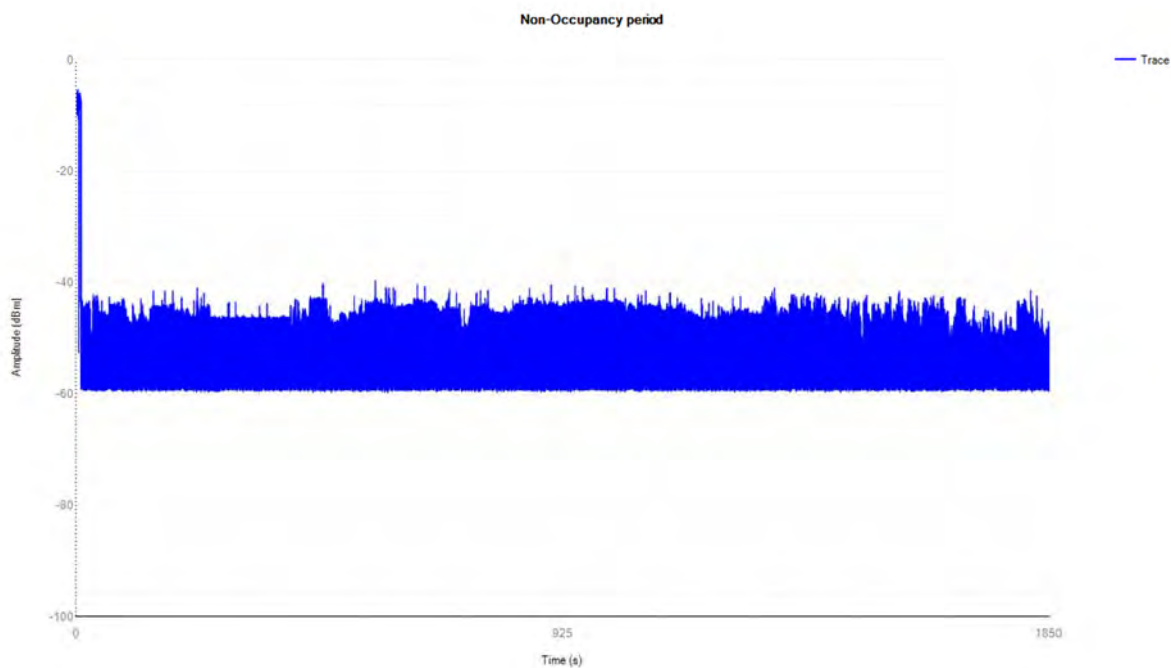
RBW: 3MHz

VBW: 3MHz

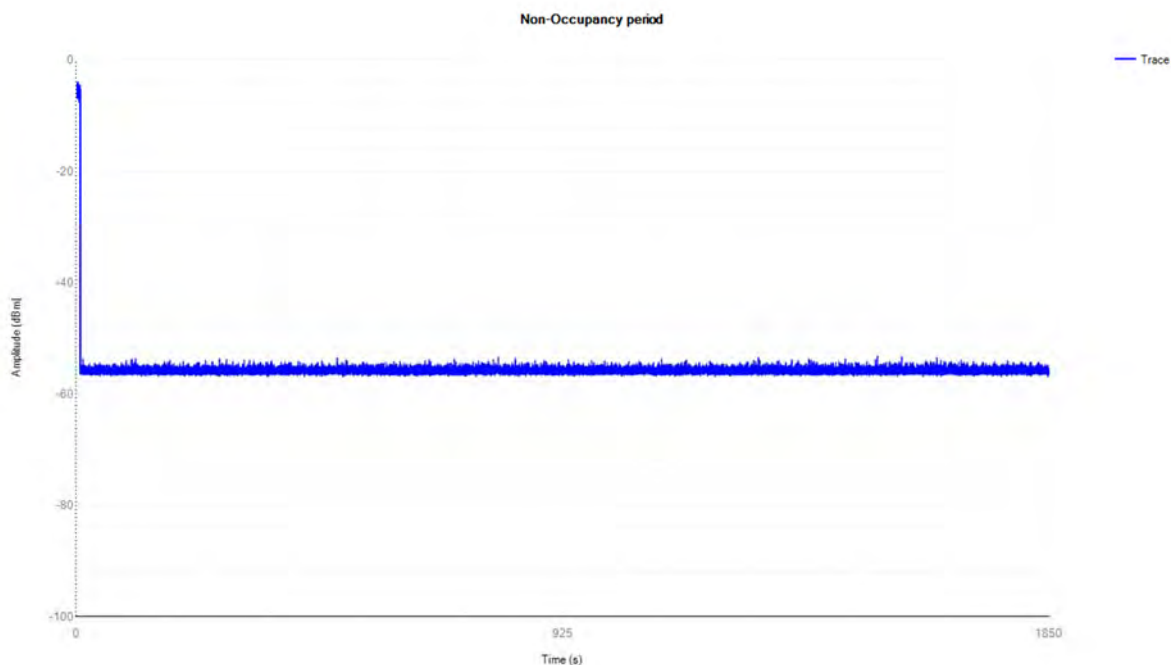
Sweep time: 1850s

Test Graphs

ac20 5260MHz Non-Occupancy



ac20 5500MHz Non-Occupancy





A.7. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+Adapter+Charging base+Data line+WIFI TX

Test voltage: AC 120V/60Hz

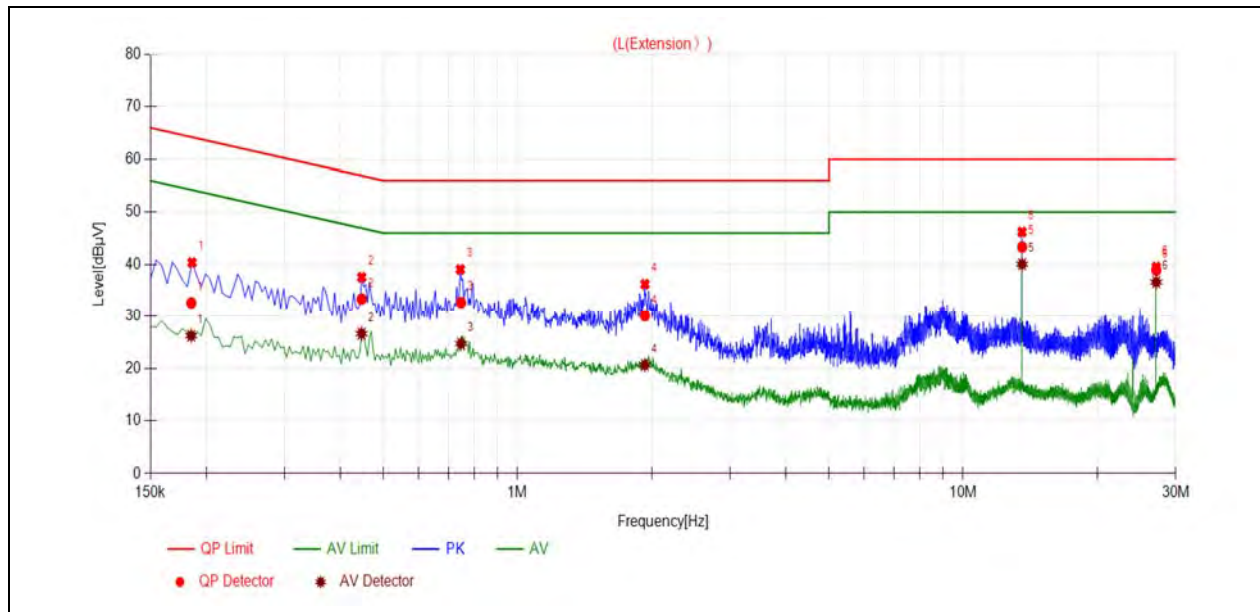
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

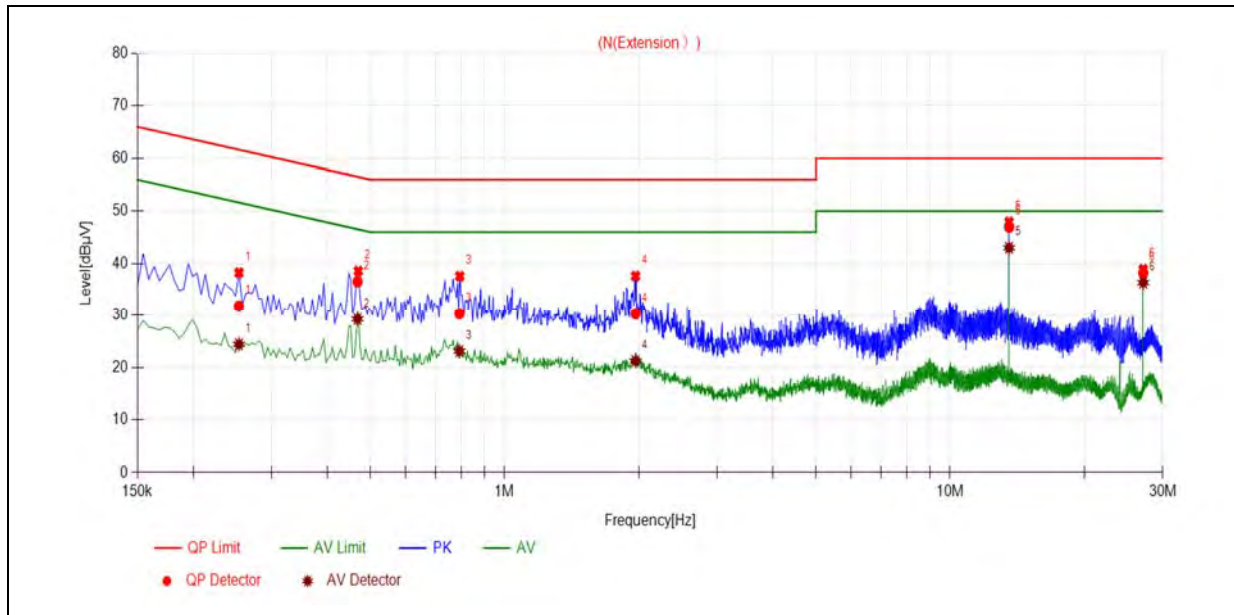
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1852	32.63	26.23	64.25	54.25	Line	PASS
2	0.4467	33.39	26.62	56.94	46.94		PASS
3	0.7467	32.69	24.72	56.00	46.00		PASS
4	1.9308	30.08	20.63	56.00	46.00		PASS
5	13.5611	43.34	40.07	60.00	50.00		PASS
6	27.1208	38.94	36.65	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2534	31.80	24.41	61.64	51.64	Neutral	PASS
2	0.4677	36.54	29.27	56.55	46.55		PASS
3	0.7921	30.31	23.10	56.00	46.00		PASS
4	1.9676	30.30	21.21	56.00	46.00		PASS
5	13.5600	46.96	43.02	60.00	50.00		PASS
6	27.1219	38.21	36.35	60.00	50.00		PASS



A.8. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

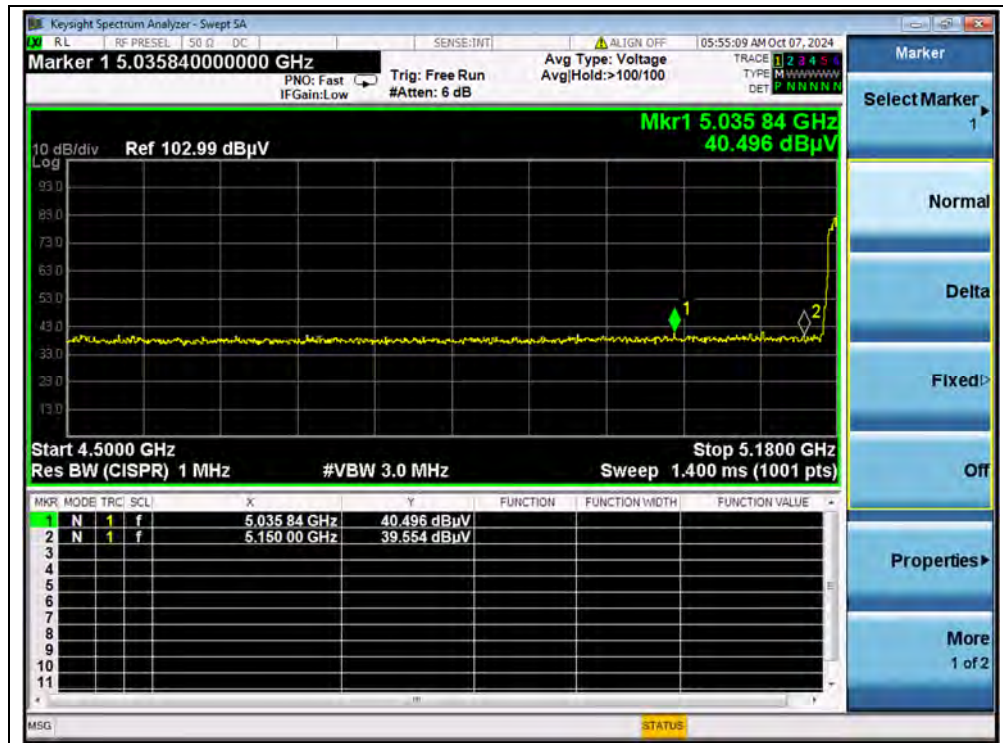
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (horizontal) was recorded in this test report.

Note 2: Restricted Frequency Bands were performed in X, Y, Z axis direction, and only the worst axis (X axis) test condition was recorded in this test report.

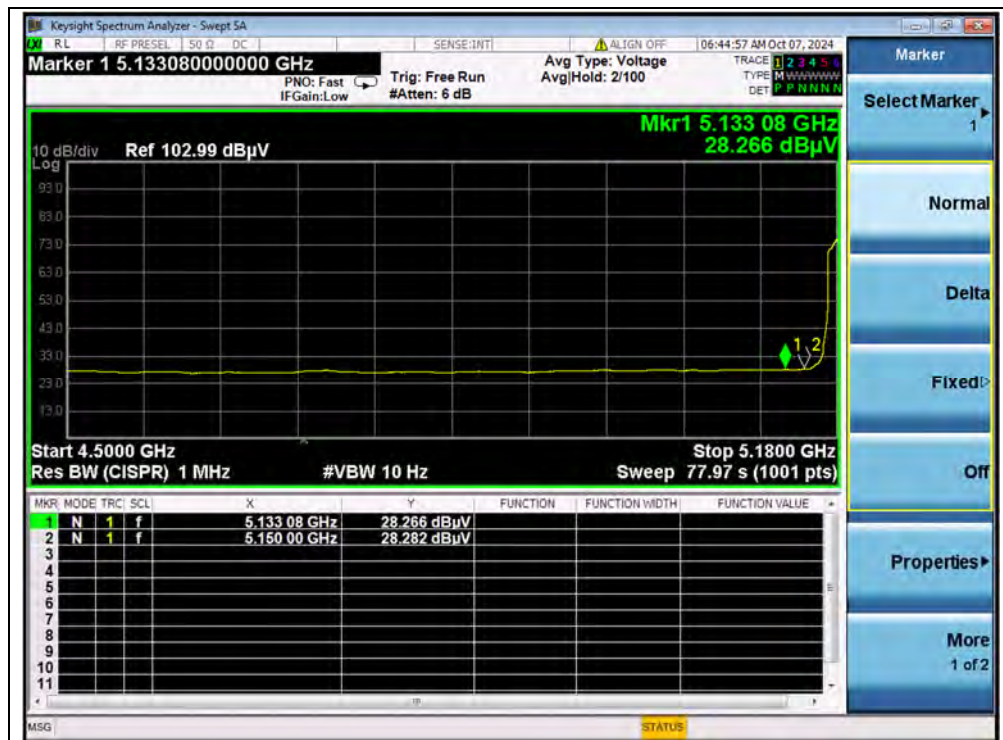
Note 3: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

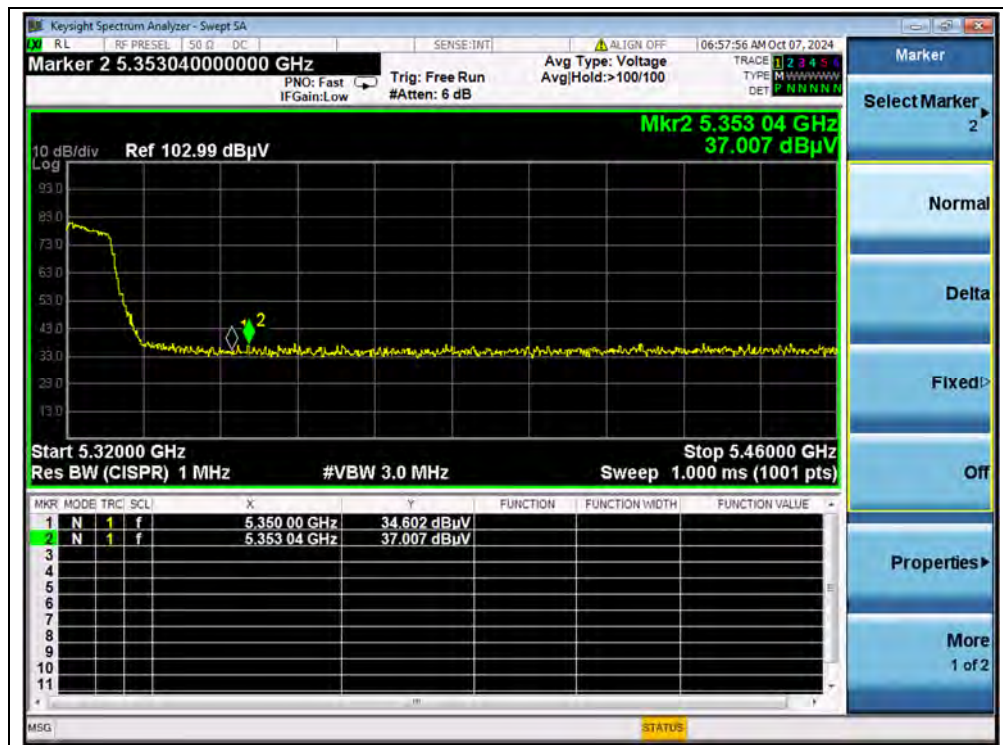
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5035.84	PK	40.50	-16.90	33.10	56.70	74	PASS
36	5150.00	AV	28.28	-16.90	33.10	44.48	54	PASS
64	5353.04	PK	37.01	-15.40	33.00	54.61	74	PASS
64	5350.00	AV	26.17	-15.40	33.00	43.77	54	PASS
100	5470.00	PK	38.55	-16.00	33.60	56.15	68.23	PASS
100	5460.00	AV	27.20	-16.00	33.60	44.80	54	PASS
144	5748.60	PK	39.10	-16.00	33.60	56.70	68.23	PASS
149	5725.00	PK	40.15	-14.70	33.50	58.95	122.23	PASS
165	5880.00	PK	37.16	-14.70	33.50	55.96	101.53	PASS



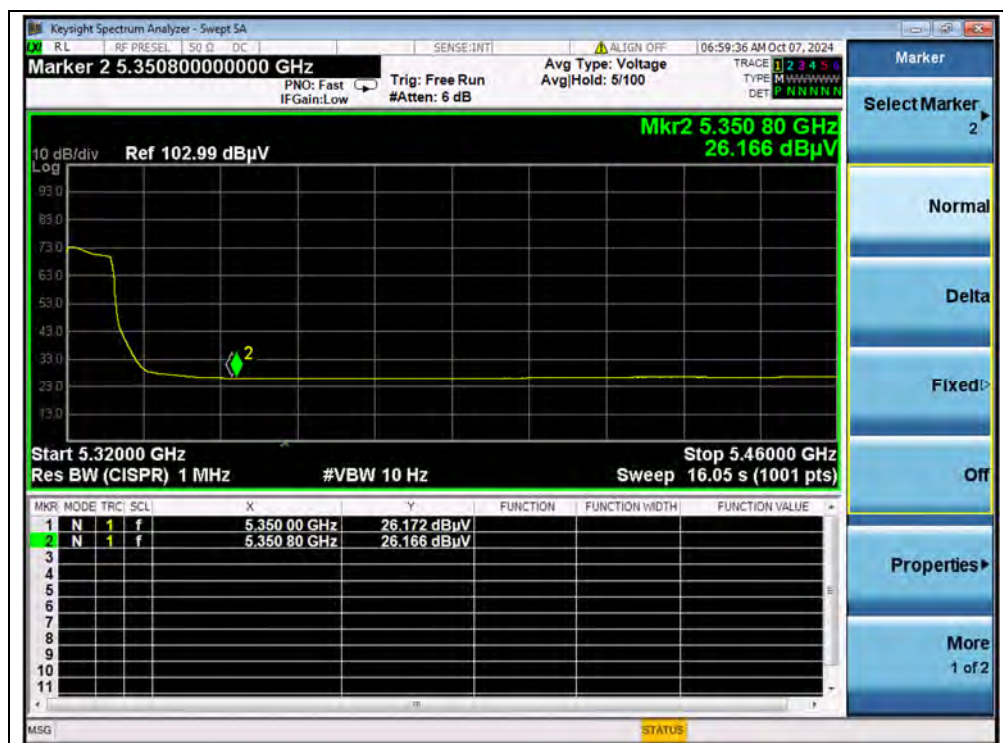
(PEAK, Channel 36, 802.11a)



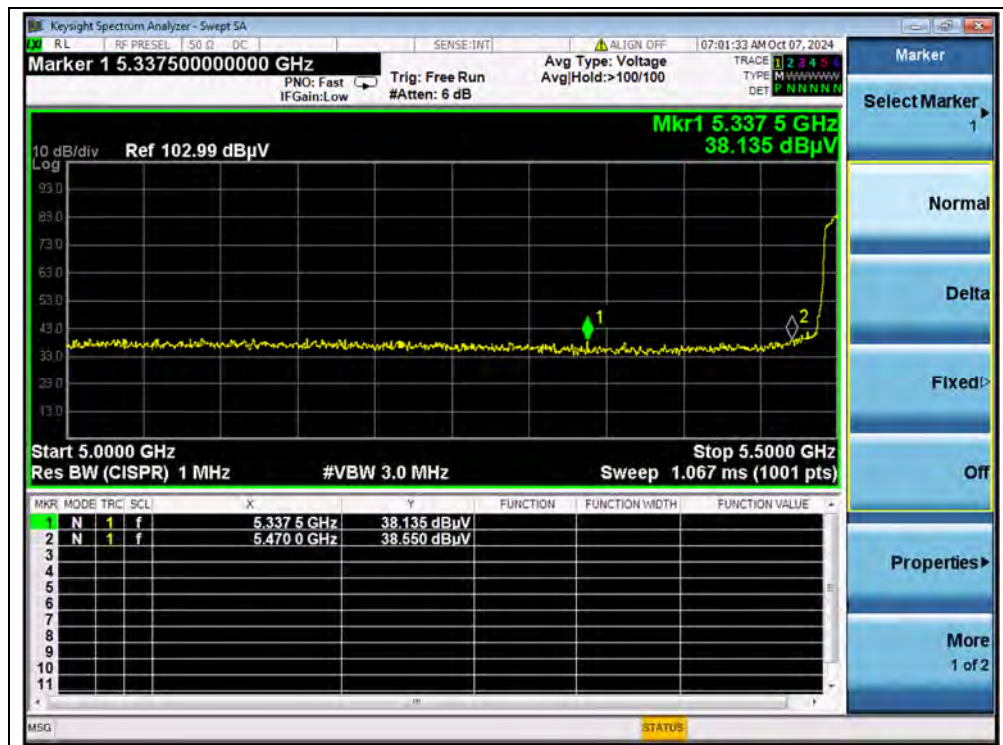
(AVERAGE, Channel 36, 802.11a)



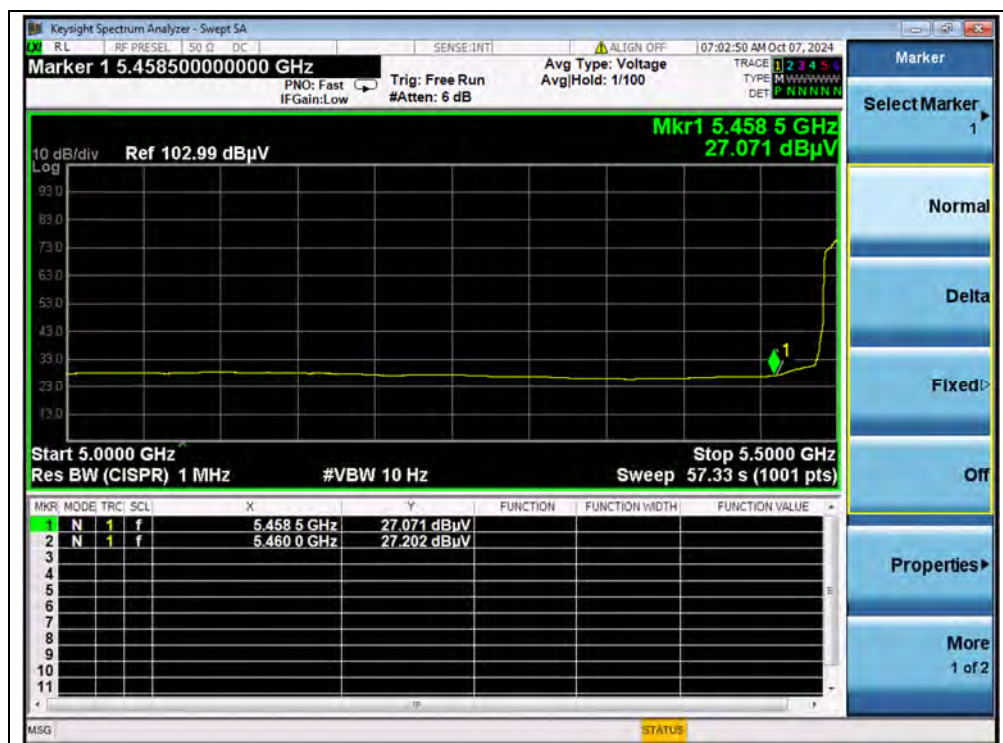
(PEAK, Channel 64, 802.11a)



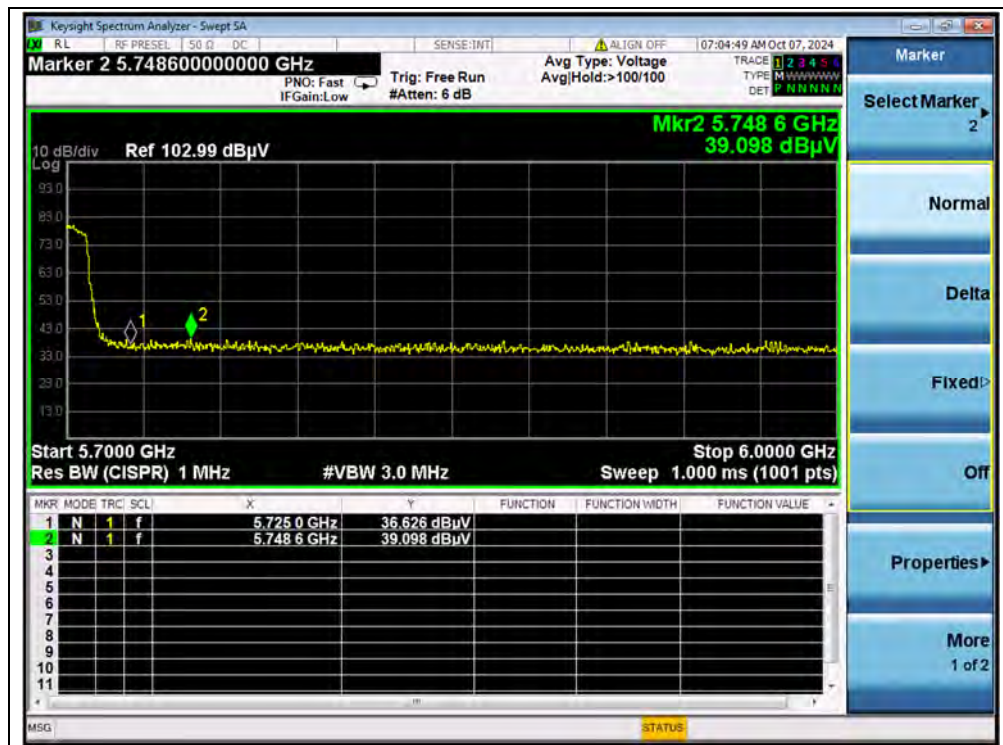
(AVERAGE, Channel 64, 802.11a)



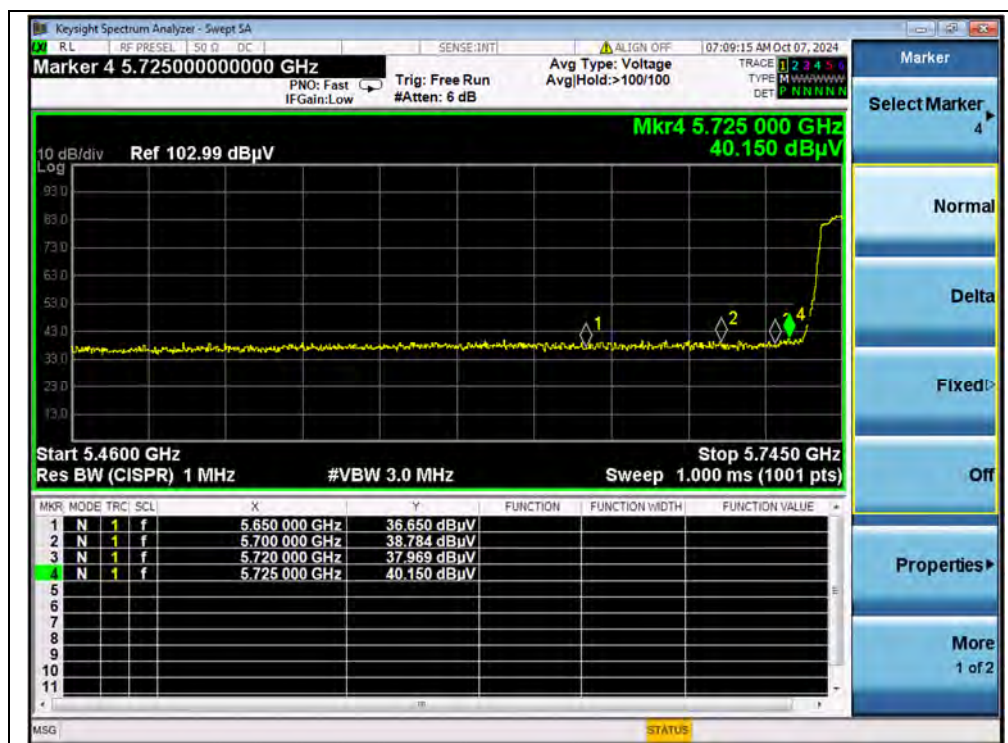
(PEAK, Channel 100, 802.11a)



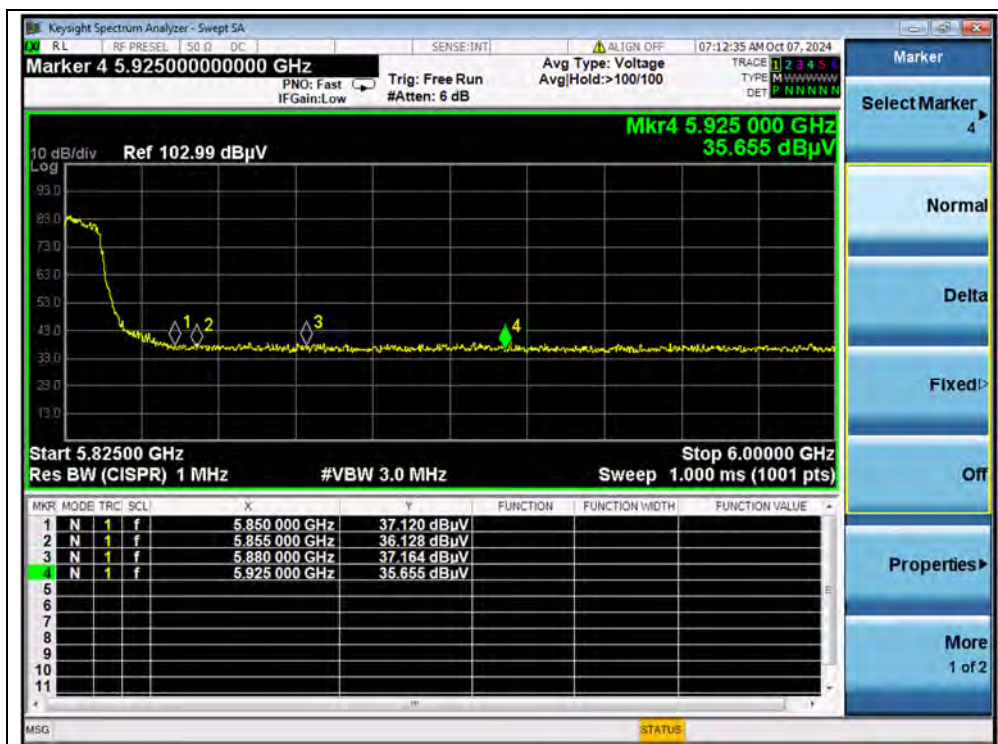
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)

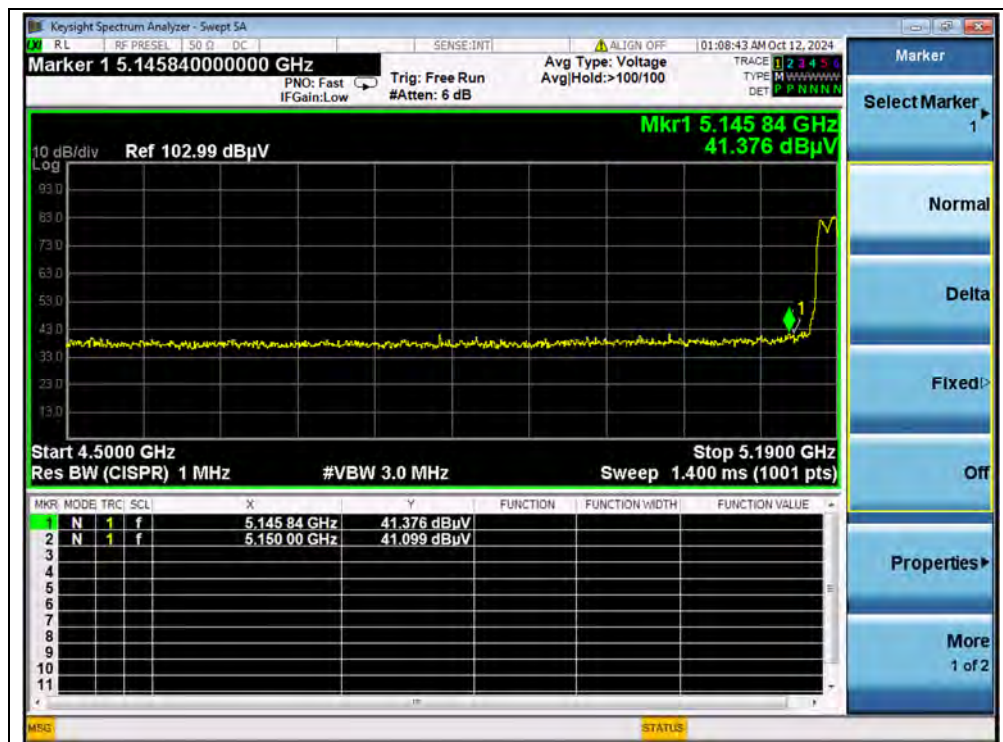


(PEAK, Channel 165, 802.11a)

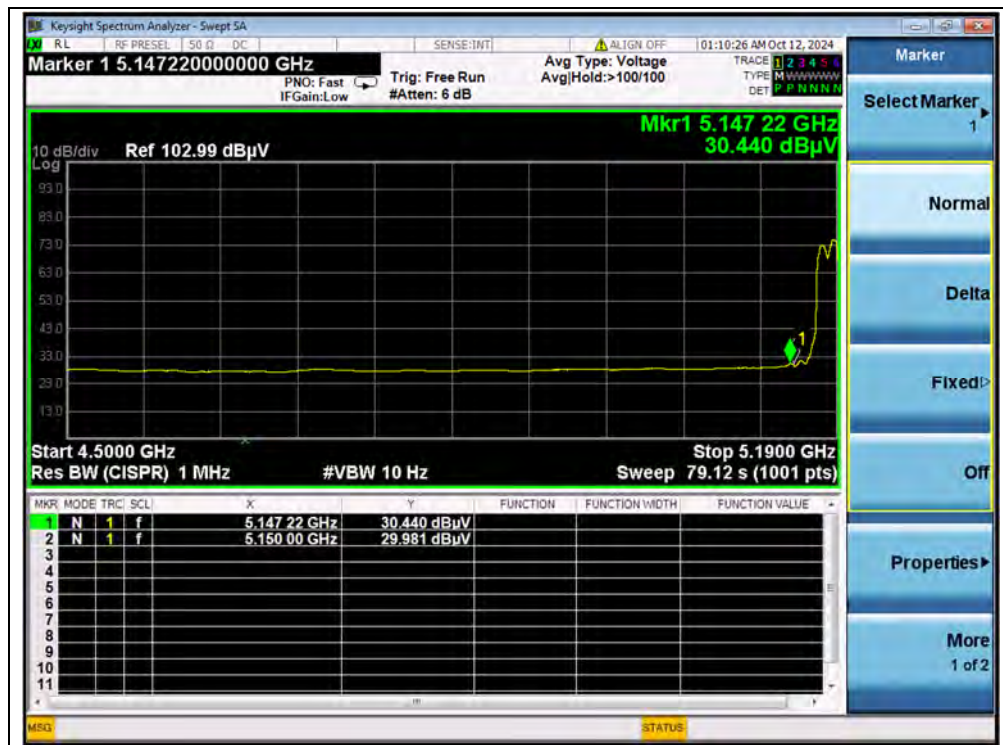


802.11n (HT40) Mode

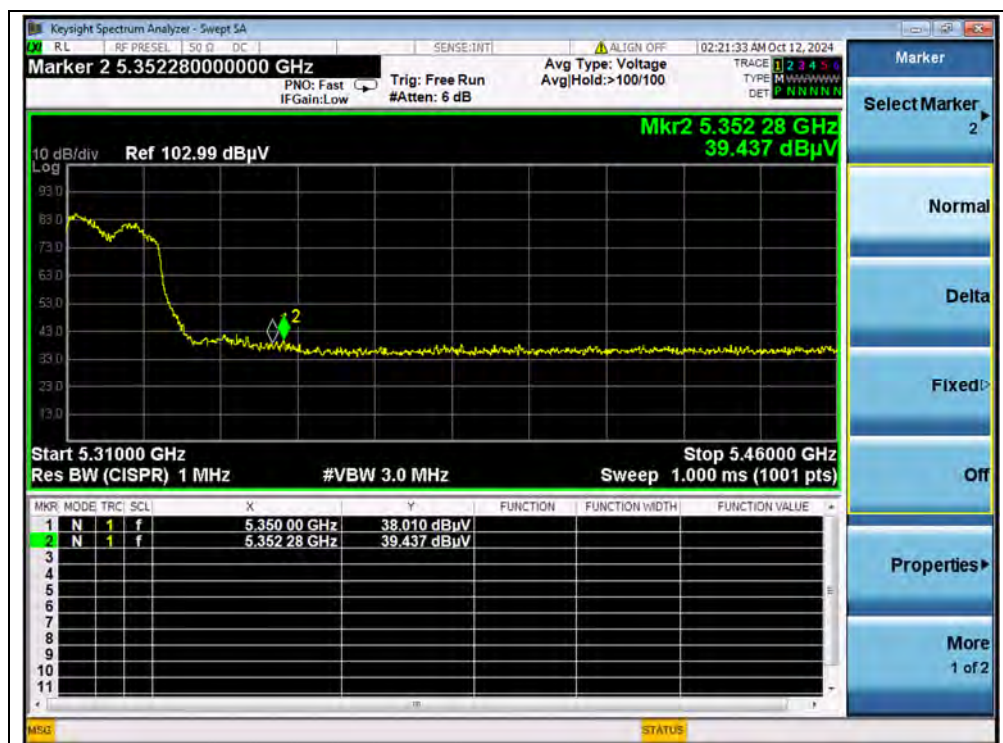
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5145.84	PK	41.38	-16.90	33.10	57.58	74	PASS
38	5147.22	AV	30.44	-16.90	33.10	46.64	54	PASS
62	5352.28	PK	39.44	-15.40	33.00	57.04	74	PASS
62	5350.63	AV	29.58	-15.40	33.00	47.18	54	PASS
102	5460.00	PK	39.67	-16.00	33.60	57.27	74	PASS
102	5344.25	AV	28.10	-16.00	33.60	45.70	54	PASS
142	5805.32	PK	41.60	-16.00	33.60	59.20	68.23	PASS
151	5725.00	PK	40.49	-14.70	33.50	59.29	68.23	PASS
159	5925.00	PK	38.16	-14.70	33.50	56.96	122.23	PASS



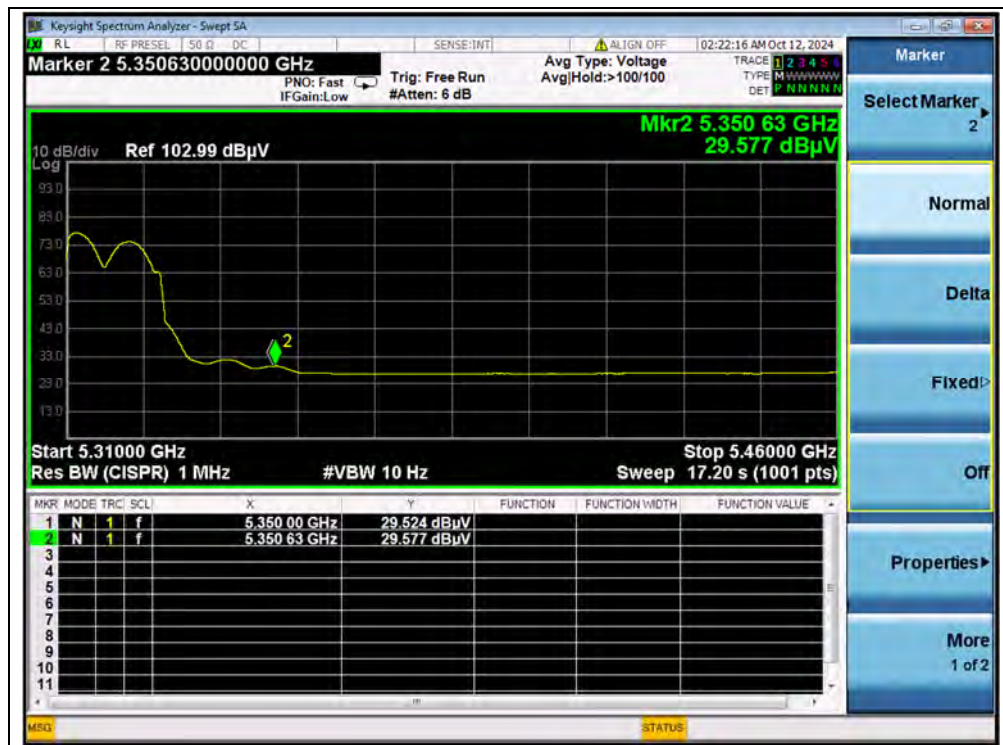
(PEAK, Channel 38, 802.11n (HT40))



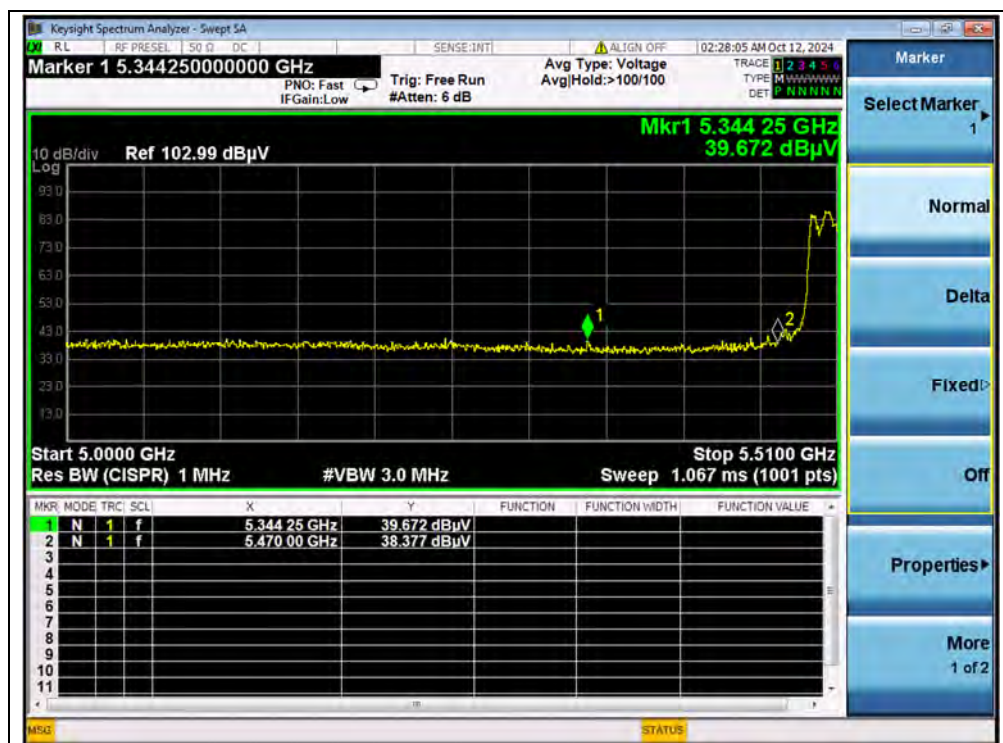
(AVERAGE, Channel 38, 802.11n (HT40))



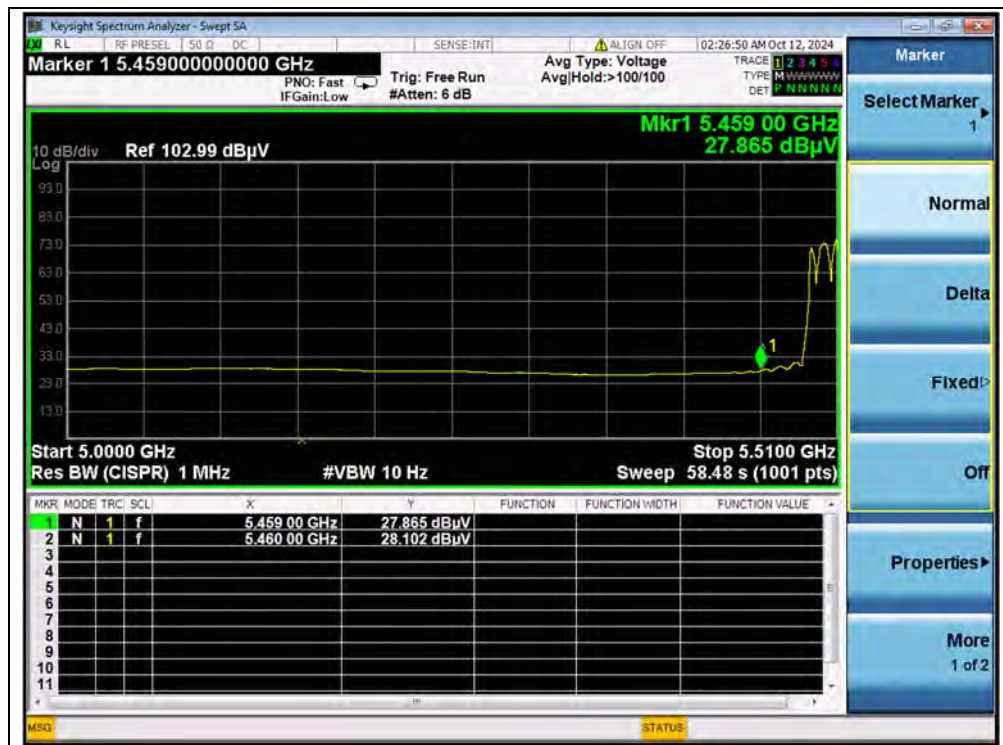
(PEAK, Channel 62, 802.11n (HT40))



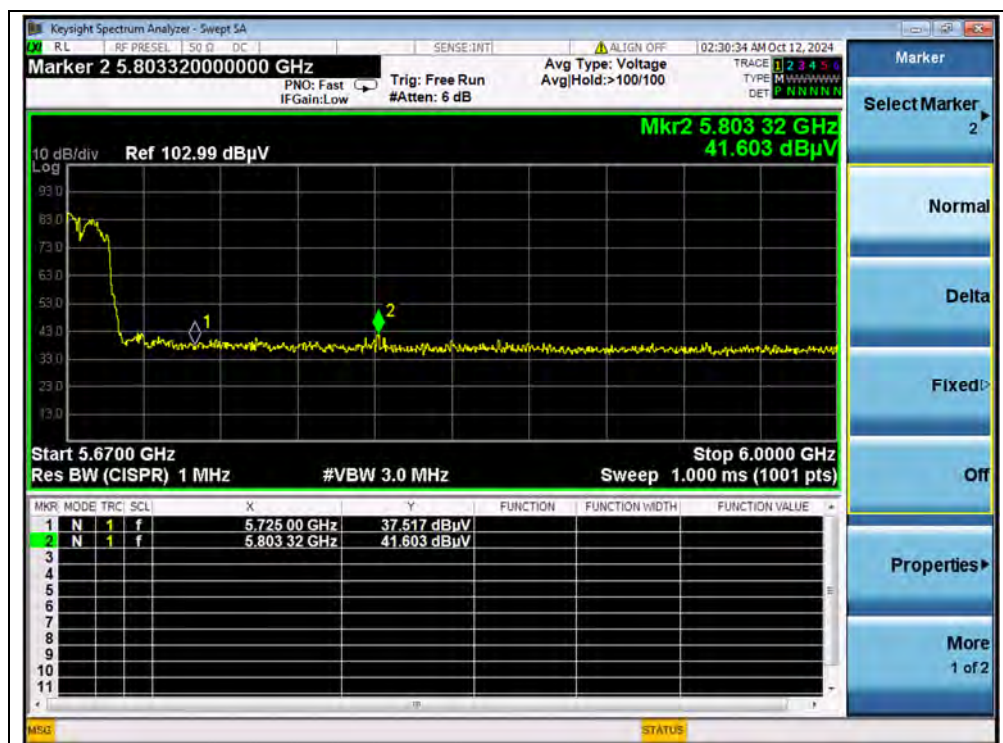
(AVERAGE, Channel 62, 802.11n (HT40))



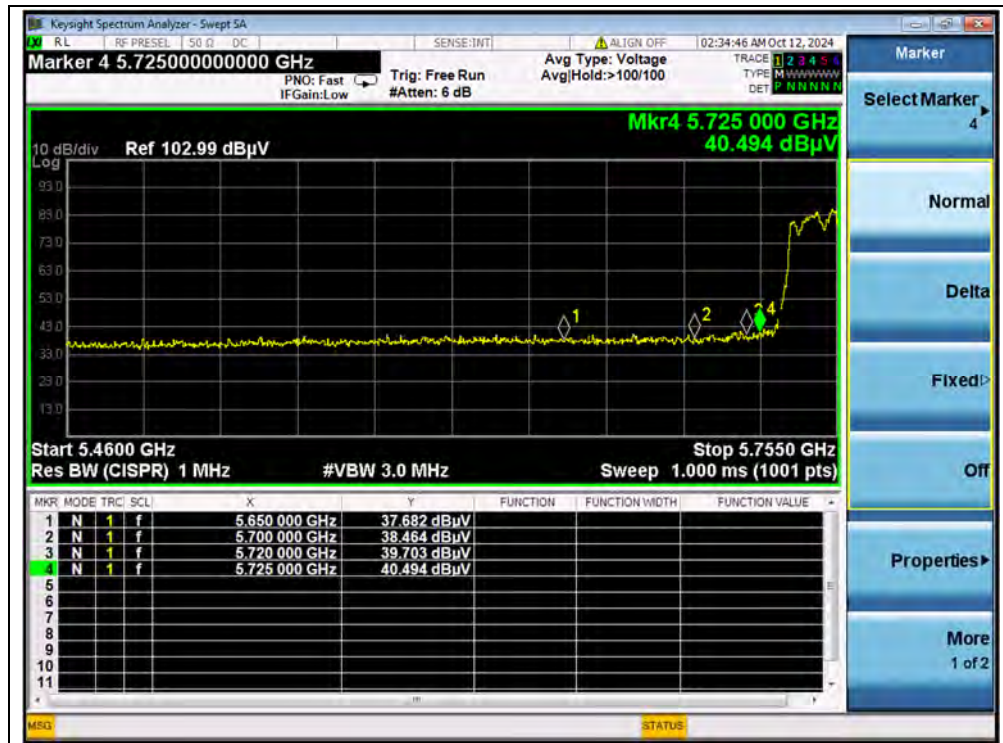
(PEAK, Channel 102, 802.11n (HT40))



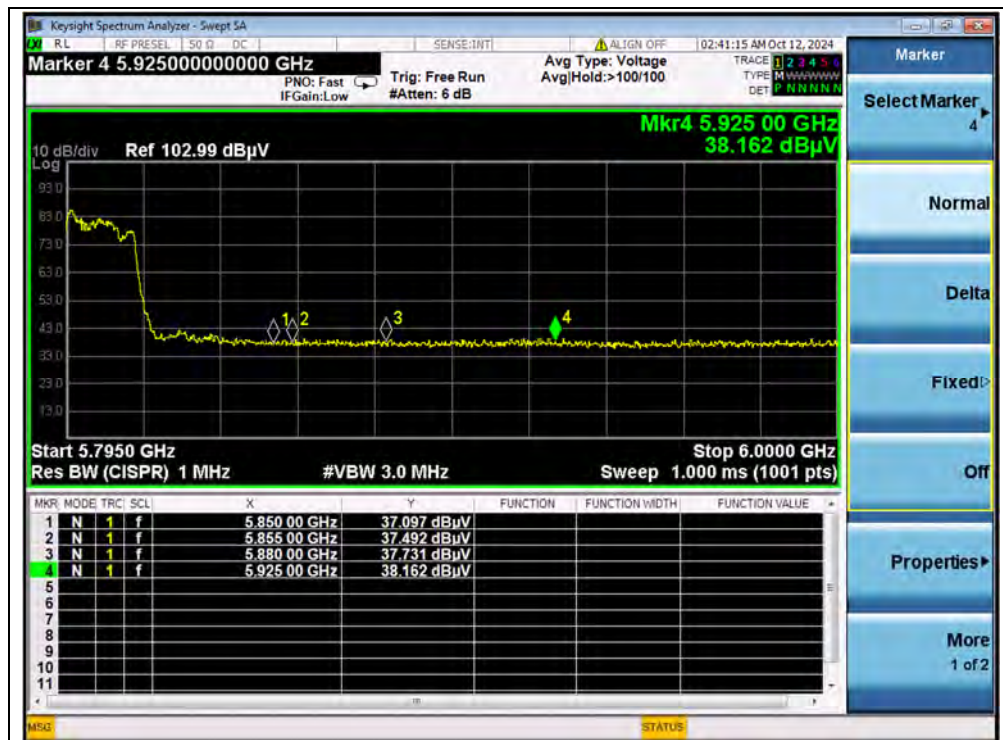
(AVERAGE, Channel 102, 802.11n (HT40))



(PEAK, Channel 142, 802.11n (HT40))



(PEAK, Channel 151, 802.11n (HT40))

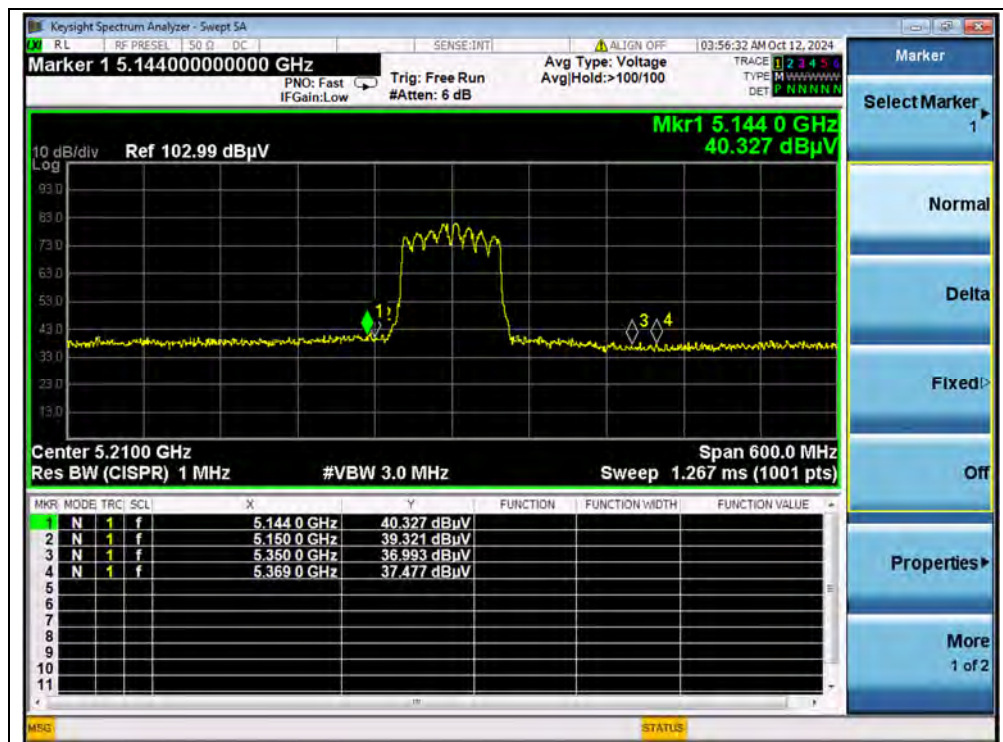


(PEAK, Channel 159, 802.11n (HT40))



802.11ac (VHT80) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5144.00	PK	40.33	-16.90	33.10	56.53	74	PASS
42	5147.00	AV	30.41	-16.90	33.10	46.61	54	PASS
58	5135.20	PK	39.99	-15.40	33.00	57.59	74	PASS
58	5351.80	AV	28.62	-15.40	33.00	46.22	54	PASS
106	5460.00	PK	40.71	-16.00	33.60	58.31	74	PASS
106	5463.75	AV	27.81	-16.00	33.60	45.41	54	PASS
138	5760.54	PK	39.70	-16.00	33.60	57.30	74	PASS
155	5720.00	PK	40.00	-14.70	33.50	58.80	110.83	PASS
155	5880.00	PK	37.90	-14.70	33.50	56.70	101.53	PASS



(PEAK, Channel 42, 802.11ac (VHT80))