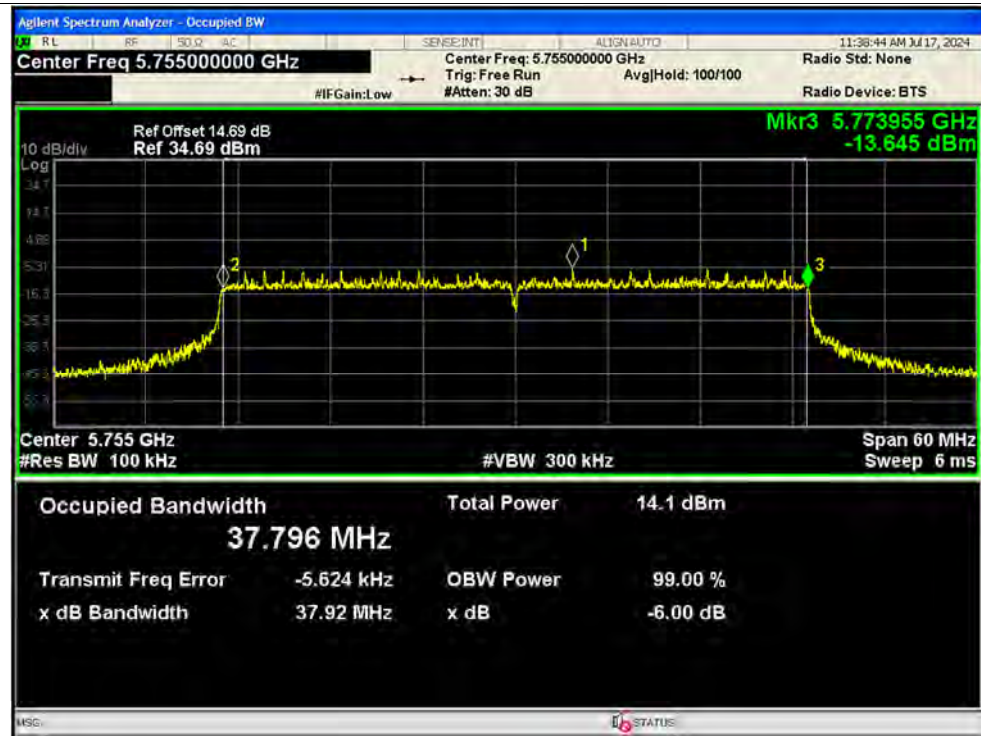
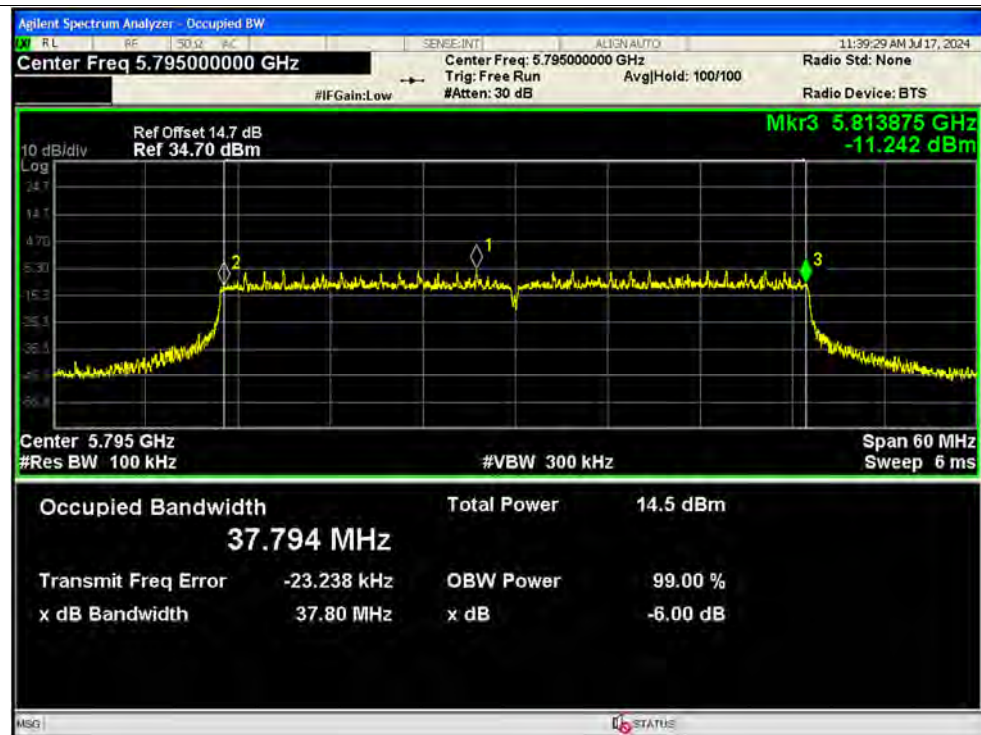


-6dB Bandwidth NVNT ax40 5755MHz Ant1



-6dB Bandwidth NVNT ax40 5795MHz Ant1



**A.4. Peak Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz) (dBm/500kHz @U-NII-3)	Duty Factor (dB)	Total Conducted PSD (dBm/MHz) (dBm/500kHz @ U-NII-3)	Total Conducted PSD (dBm/MHz) (dBm/500kHz @ U-NII-3)	Verdict
NVNT	a	5180	Ant1	0.59	0.12	0.71	11	Pass
NVNT	a	5220	Ant1	-1.27	0.15	-1.12	11	Pass
NVNT	a	5240	Ant1	-1.9	0.18	-1.72	11	Pass
NVNT	a	5260	Ant1	-2.44	0.53	-1.91	11	Pass
NVNT	a	5300	Ant1	-3.1	0.41	-2.69	11	Pass
NVNT	a	5320	Ant1	-3.16	0.53	-2.63	11	Pass
NVNT	a	5500	Ant1	-1.27	0.18	-1.09	11	Pass
NVNT	a	5580	Ant1	-1.23	0.47	-0.76	11	Pass
NVNT	a	5600	Ant1	-1.28	0.3	-0.98	11	Pass
NVNT	a	5720	Ant1	-1.82	0.24	-1.58	11	Pass
NVNT	a	5745	Ant1	-4.53	0.47	-4.06	30	Pass
NVNT	a	5785	Ant1	-4.35	0.42	-3.93	30	Pass
NVNT	a	5825	Ant1	-3.53	0.15	-3.38	30	Pass
NVNT	n20	5180	Ant1	0.75	0.29	1.04	11	Pass
NVNT	n20	5220	Ant1	-0.62	0.32	-0.3	11	Pass
NVNT	n20	5240	Ant1	-1.19	0.5	-0.69	11	Pass
NVNT	n20	5260	Ant1	-1.84	0.35	-1.49	11	Pass
NVNT	n20	5300	Ant1	-2.4	0.35	-2.05	11	Pass
NVNT	n20	5320	Ant1	-2.43	0.35	-2.08	11	Pass
NVNT	n20	5500	Ant1	-1.78	0.29	-1.49	11	Pass
NVNT	n20	5580	Ant1	-1.62	0.53	-1.09	11	Pass
NVNT	n20	5600	Ant1	-1.56	0.5	-1.06	11	Pass
NVNT	n20	5720	Ant1	-2.32	0.33	-1.99	11	Pass
NVNT	n20	5745	Ant1	-4.83	0.13	-4.7	30	Pass
NVNT	n20	5785	Ant1	-4.47	0.2	-4.27	30	Pass
NVNT	n20	5825	Ant1	-3.69	0.26	-3.43	30	Pass
NVNT	n40	5190	Ant1	-2.37	1.06	-1.31	11	Pass
NVNT	n40	5230	Ant1	-4.03	0.63	-3.4	11	Pass
NVNT	n40	5270	Ant1	-5.13	0.45	-4.68	11	Pass
NVNT	n40	5310	Ant1	-5.92	1.22	-4.7	11	Pass
NVNT	n40	5510	Ant1	-5.39	0.85	-4.54	11	Pass



REPORT No.: SZ24070017W03

NVNT	n40	5550	Ant1	-5.38	0.63	-4.75	11	Pass
NVNT	n40	5630	Ant1	-7.12	0.9	-6.22	11	Pass
NVNT	n40	5710	Ant1	-7.36	0.63	-6.73	11	Pass
NVNT	n40	5755	Ant1	-7.95	0.96	-6.99	30	Pass
NVNT	n40	5795	Ant1	-7.73	0.44	-7.29	30	Pass
NVNT	ac20	5180	Ant1	-1.65	0.32	-1.33	11	Pass
NVNT	ac20	5220	Ant1	-3.23	0.35	-2.88	11	Pass
NVNT	ac20	5240	Ant1	-3.87	0.35	-3.52	11	Pass
NVNT	ac20	5260	Ant1	-2.76	0.35	-2.41	11	Pass
NVNT	ac20	5300	Ant1	-3.28	0.7	-2.58	11	Pass
NVNT	ac20	5320	Ant1	-3.56	0.5	-3.06	11	Pass
NVNT	ac20	5500	Ant1	-3.57	0.7	-2.87	11	Pass
NVNT	ac20	5580	Ant1	-3.38	0.19	-3.19	11	Pass
NVNT	ac20	5600	Ant1	-3.31	0.47	-2.84	11	Pass
NVNT	ac20	5720	Ant1	-2.15	0.41	-1.74	11	Pass
NVNT	ac20	5745	Ant1	-6.28	0.5	-5.78	30	Pass
NVNT	ac20	5785	Ant1	-6.03	0.56	-5.47	30	Pass
NVNT	ac20	5825	Ant1	-5.38	0.32	-5.06	30	Pass
NVNT	ac40	5190	Ant1	-5.33	0.67	-4.66	11	Pass
NVNT	ac40	5230	Ant1	-7.03	0.94	-6.09	11	Pass
NVNT	ac40	5270	Ant1	-8.23	0.38	-7.85	11	Pass
NVNT	ac40	5310	Ant1	-7.06	0.85	-6.21	11	Pass
NVNT	ac40	5510	Ant1	-7.67	0.85	-6.82	11	Pass
NVNT	ac40	5550	Ant1	-7.71	0.78	-6.93	11	Pass
NVNT	ac40	5630	Ant1	-7.46	0.5	-6.96	11	Pass
NVNT	ac40	5710	Ant1	-7.52	0.94	-6.58	11	Pass
NVNT	ac40	5755	Ant1	-10.01	0.9	-9.11	30	Pass
NVNT	ac40	5795	Ant1	-9.61	0.26	-9.35	30	Pass
NVNT	ax20	5180	Ant1	-3.86	0.45	-3.41	11	Pass
NVNT	ax20	5220	Ant1	-5.31	0.49	-4.82	11	Pass
NVNT	ax20	5240	Ant1	-6.31	0.45	-5.86	11	Pass
NVNT	ax20	5260	Ant1	-3.4	0.29	-3.11	11	Pass
NVNT	ax20	5300	Ant1	-4.14	0.37	-3.77	11	Pass
NVNT	ax20	5320	Ant1	-3.99	0.6	-3.39	11	Pass
NVNT	ax20	5500	Ant1	-3.83	0.71	-3.12	11	Pass
NVNT	ax20	5580	Ant1	-3.67	0.57	-3.1	11	Pass
NVNT	ax20	5600	Ant1	-3.44	0.29	-3.15	11	Pass
NVNT	ax20	5720	Ant1	-3.98	0.29	-3.69	11	Pass

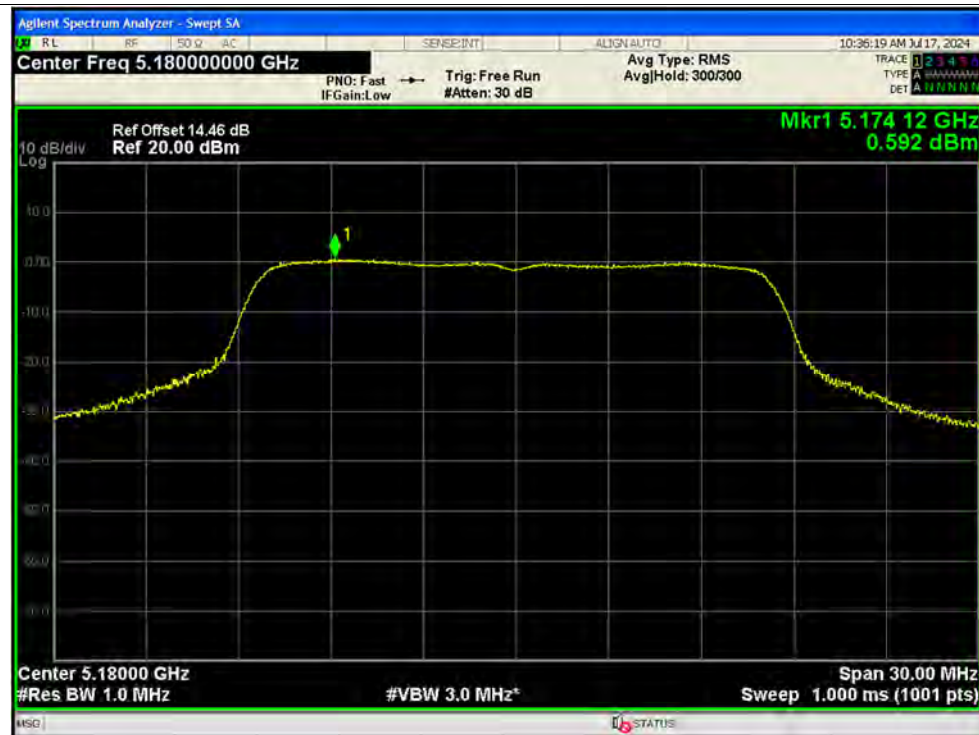


REPORT No.: SZ24070017W03

NVNT	ax20	5745	Ant1	-6.87	0.21	-6.66	30	Pass
NVNT	ax20	5785	Ant1	-6.42	0.29	-6.13	30	Pass
NVNT	ax20	5825	Ant1	-5.58	0.86	-4.72	30	Pass
NVNT	ax40	5190	Ant1	-5.62	0.95	-4.67	11	Pass
NVNT	ax40	5230	Ant1	-7.01	0.39	-6.62	11	Pass
NVNT	ax40	5270	Ant1	-6.78	0.89	-5.89	11	Pass
NVNT	ax40	5310	Ant1	-7.26	1.27	-5.99	11	Pass
NVNT	ax40	5510	Ant1	-8.07	1.02	-7.06	11	Pass
NVNT	ax40	5550	Ant1	-1.71	1.02	-0.69	11	Pass
NVNT	ax40	5630	Ant1	-7.78	1.21	-6.57	11	Pass
NVNT	ax40	5710	Ant1	-7.82	0.54	-7.28	11	Pass
NVNT	ax40	5755	Ant1	-10.31	0.32	-9.99	30	Pass
NVNT	ax40	5795	Ant1	-10.05	1.39	-8.66	30	Pass

Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5220MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



PSD NVNT a 5320MHz Ant1



PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1





PSD NVNT a 5600MHz Ant1



PSD NVNT a 5720MHz Ant1



PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5220MHz Ant1



PSD NVNT n20 5240MHz Ant1





PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1



PSD NVNT n20 5500MHz Ant1





PSD NVNT n20 5580MHz Ant1



PSD NVNT n20 5600MHz Ant1





PSD NVNT n20 5720MHz Ant1



PSD NVNT n20 5745MHz Ant1





PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1





PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1



PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5550MHz Ant1





PSD NVNT n40 5630MHz Ant1



PSD NVNT n40 5710MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5220MHz Ant1



PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac20 5260MHz Ant1



PSD NVNT ac20 5300MHz Ant1



PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac20 5500MHz Ant1



PSD NVNT ac20 5580MHz Ant1





PSD NVNT ac20 5600MHz Ant1



PSD NVNT ac20 5720MHz Ant1





PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5190MHz Ant1





PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac40 5270MHz Ant1



PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac40 5510MHz Ant1





PSD NVNT ac40 5550MHz Ant1



PSD NVNT ac40 5630MHz Ant1



PSD NVNT ac40 5710MHz Ant1



PSD NVNT ac40 5755MHz Ant1





PSD NVNT ac40 5795MHz Ant1



PSD NVNT ax20 5180MHz Ant1



PSD NVNT ax20 5220MHz Ant1



PSD NVNT ax20 5240MHz Ant1



PSD NVNT ax20 5260MHz Ant1



PSD NVNT ax20 5300MHz Ant1



PSD NVNT ax20 5320MHz Ant1



PSD NVNT ax20 5500MHz Ant1





PSD NVNT ax20 5580MHz Ant1



PSD NVNT ax20 5600MHz Ant1





PSD NVNT ax20 5720MHz Ant1



PSD NVNT ax20 5745MHz Ant1





PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5825MHz Ant1



PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1



PSD NVNT ax40 5270MHz Ant1



PSD NVNT ax40 5310MHz Ant1



PSD NVNT ax40 5510MHz Ant1



PSD NVNT ax40 5550MHz Ant1



PSD NVNT ax40 5630MHz Ant1



PSD NVNT ax40 5710MHz Ant1



PSD NVNT ax40 5755MHz Ant1



PSD NVNT ax40 5795MHz Ant1



**A.5. Frequency Stability**

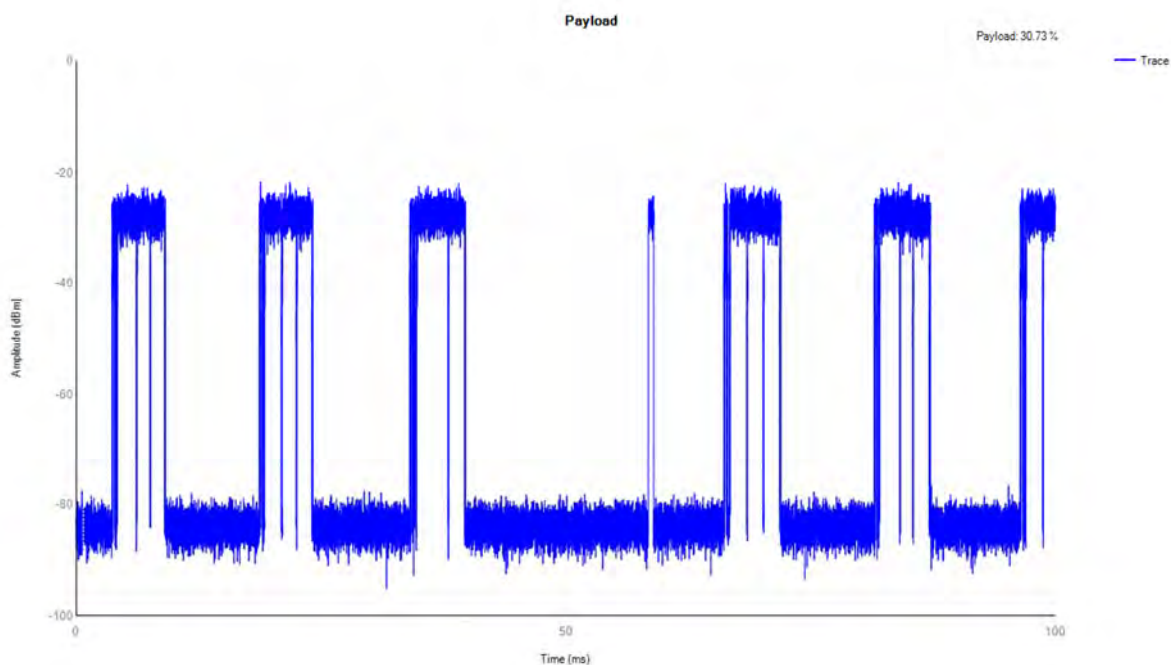
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 4.75V	Carrier	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 5V	Carrier	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 5.25V	Carrier	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 5V	Carrier	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 5V	Carrier	5180	Ant1	5179.96	-40000	-7.72	25	Pass
30C 5V	Carrier	5180	Ant1	5179.96	-40000	-7.72	25	Pass
40C 5V	Carrier	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 4.75V	Carrier	5260	Ant1	5259.94	-60000	-11.41	25	Pass
20C 5V	Carrier	5260	Ant1	5259.94	-60000	-11.41	25	Pass
20C 5.25V	Carrier	5260	Ant1	5259.96	-40000	-7.6	25	Pass
0C 5V	Carrier	5260	Ant1	5259.94	-60000	-11.41	25	Pass
10C 5V	Carrier	5260	Ant1	5259.96	-40000	-7.6	25	Pass
30C 5V	Carrier	5260	Ant1	5259.96	-40000	-7.6	25	Pass
40C 5V	Carrier	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 4.75V	Carrier	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 5V	Carrier	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 5.25V	Carrier	5500	Ant1	5499.98	-20000	-3.64	25	Pass
0C 5V	Carrier	5500	Ant1	5499.96	-40000	-7.27	25	Pass
10C 5V	Carrier	5500	Ant1	5499.96	-40000	-7.27	25	Pass
30C 5V	Carrier	5500	Ant1	5499.96	-40000	-7.27	25	Pass
40C 5V	Carrier	5500	Ant1	5499.94	-60000	-10.91	25	Pass
20C 4.75V	Carrier	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 5V	Carrier	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 5.25V	Carrier	5745	Ant1	5744.96	-40000	-6.96	25	Pass
0C 5V	Carrier	5745	Ant1	5744.96	-40000	-6.96	25	Pass
10C 5V	Carrier	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 5V	Carrier	5745	Ant1	5744.94	-60000	-10.44	25	Pass
40C 5V	Carrier	5745	Ant1	5744.96	-40000	-6.96	25	Pass

**A.6. Dynamic Frequency Selection****Payload**

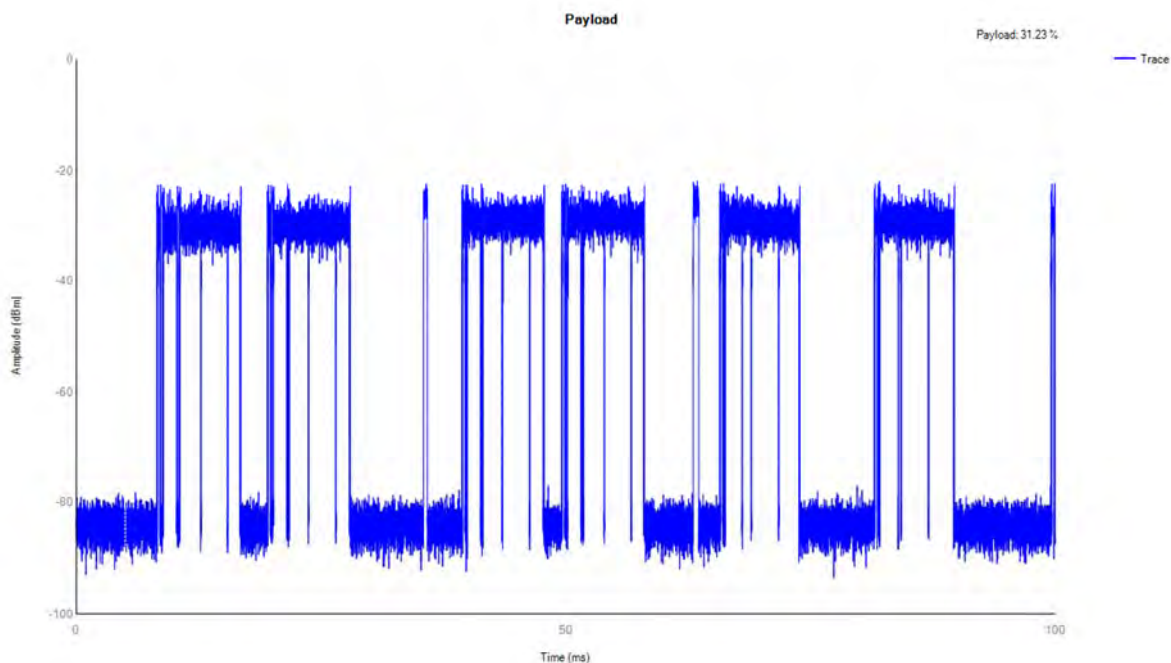
Mode	Frequency (MHz)	Result	Verdict	SISO
ax20	5320	30.73	Pass	SISO
ax20	5500	31.23	Pass	SISO
ax40	5310	30.34	Pass	SISO
ax40	5510	30.98	Pass	SISO

Test Graphs

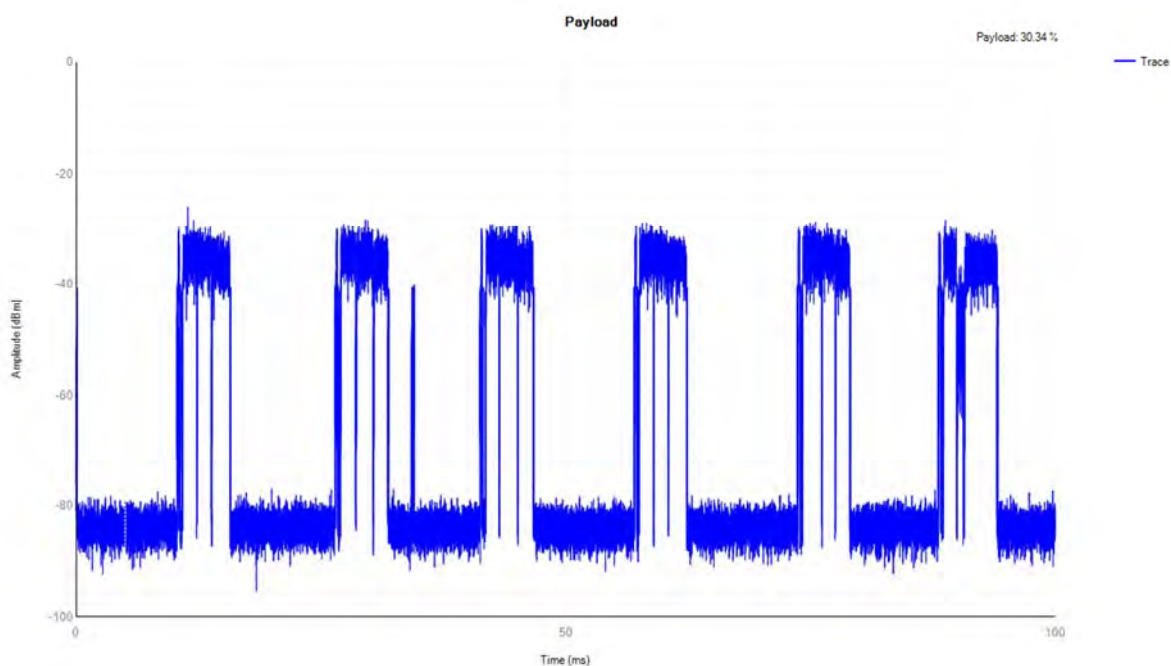
ax20 5320MHz Payload



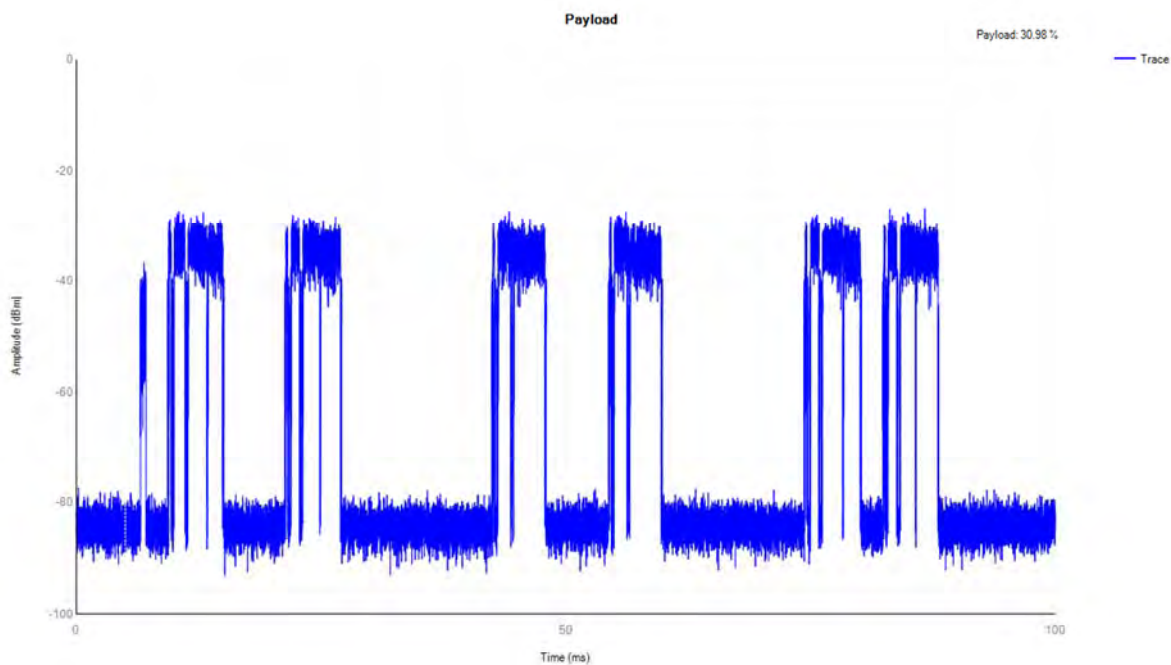
ax20 5500MHz Payload



ax40 5310MHz Payload



ax40 5510MHz Payload



**Detection Thresholds**

Mode	Frequency (MHz)	Type	Result	Verdict	SISO
ax20	5320	DFS_FCC_T0	See test Graph	Pass	SISO
ax20	5500	DFS_FCC_T0	See test Graph	Pass	SISO
ax40	5310	DFS_FCC_T0	See test Graph	Pass	SISO
ax40	5510	DFS_FCC_T0	See test Graph	Pass	SISO

Spectrum analyzer settings:

Span: Zero

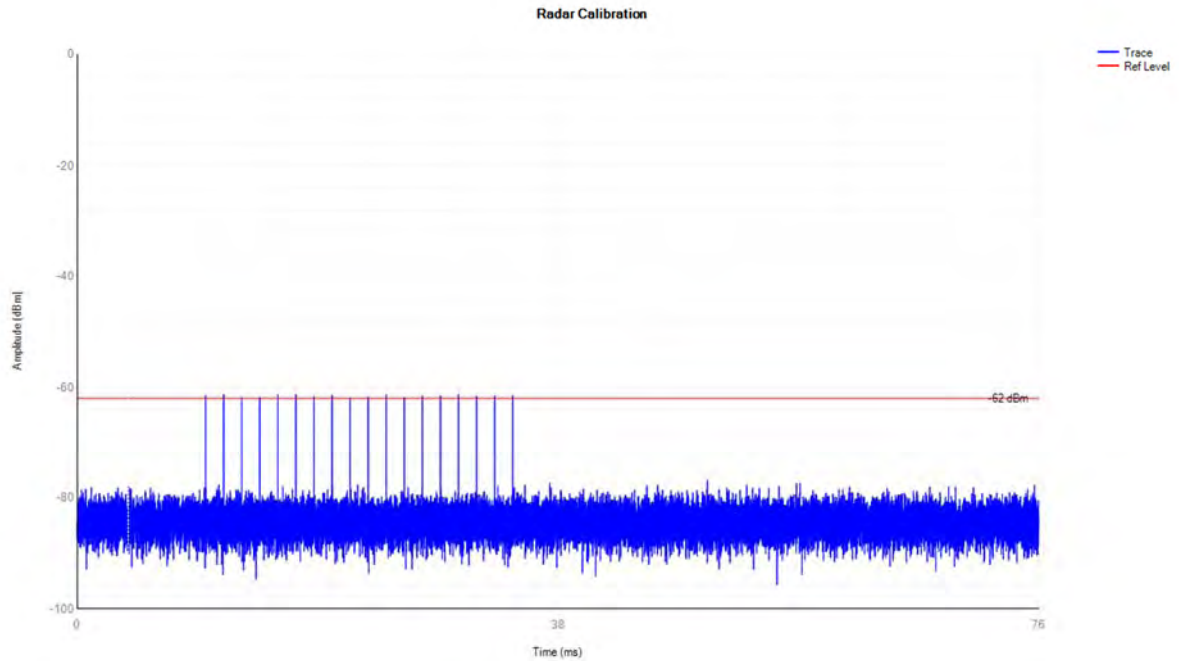
Detector Type: Peak

RBW: 3MHz

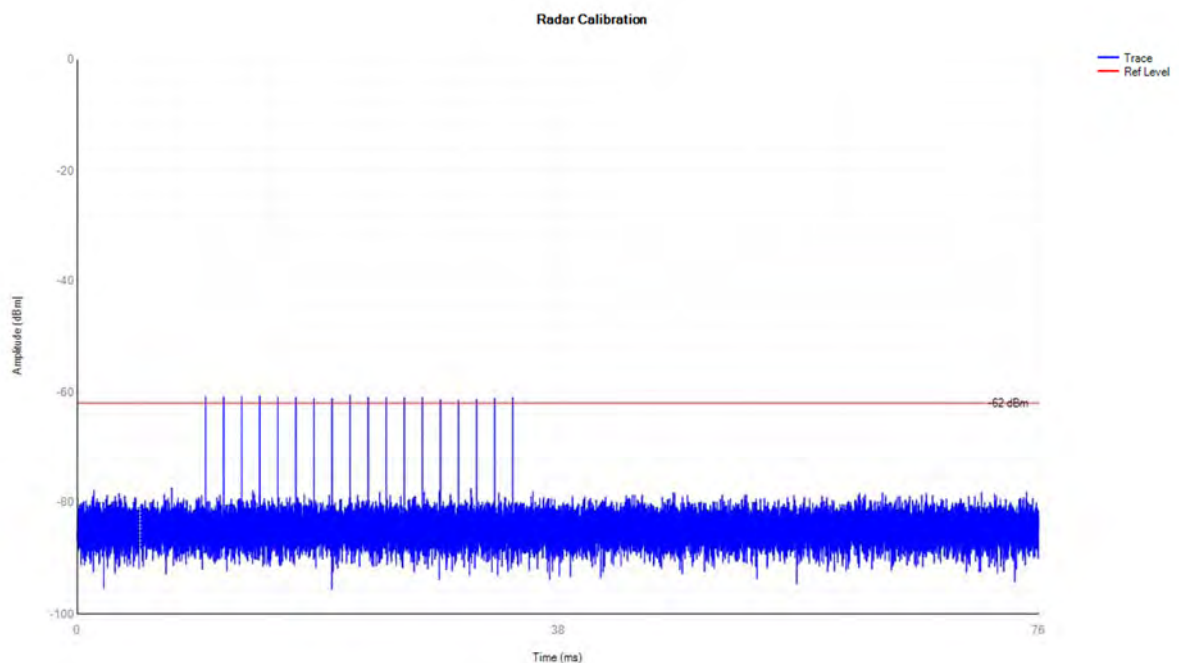
VBW: 3MHz

Test Graphs

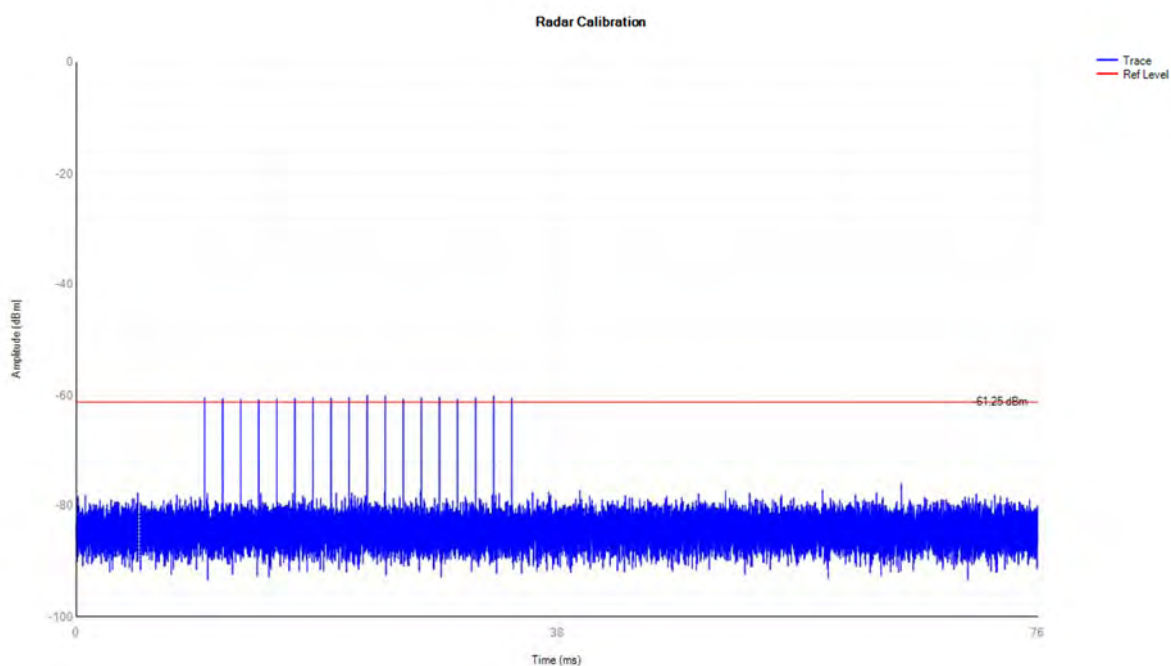
5320MHz DFS_FCC_T0



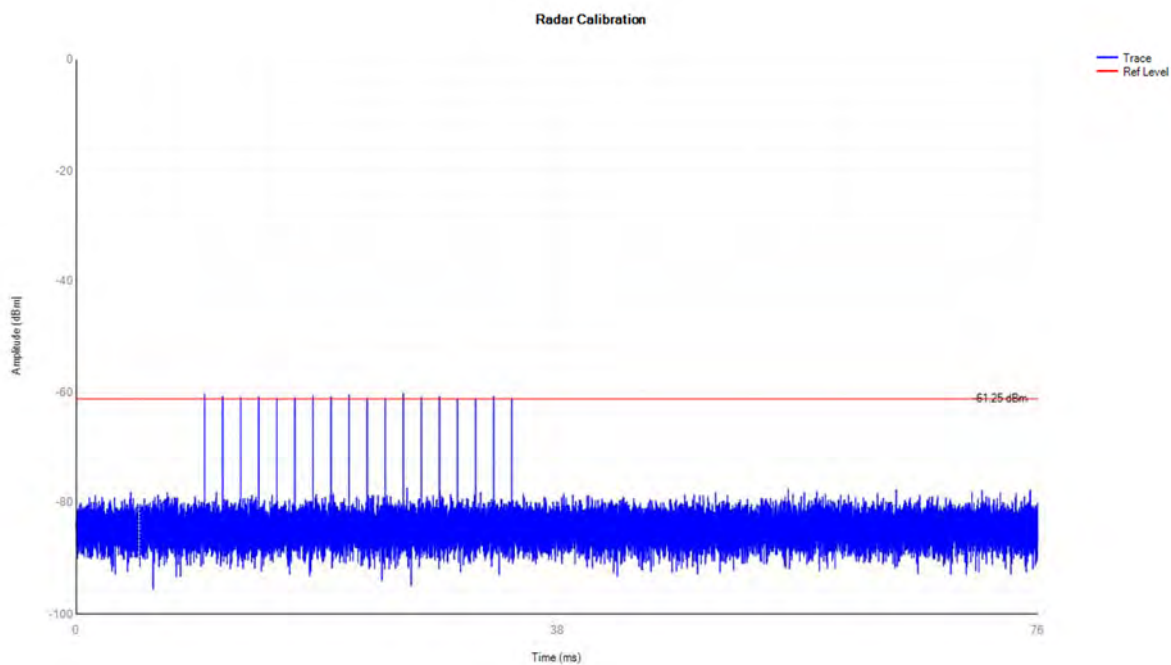
5500MHz DFS_FCC_T0



5310MHz DFS_FCC_T0



5510MHz 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
ax20	5320	0.82	10	0.032	0.26	0.011	0.06	Pass
ax20	5500	0.812	10	0.015	0.26	0.007	0.06	Pass
ax40	5310	0.81	10	0.025	0.26	0.008	0.06	Pass
ax40	5510	0.108	10	0.013	0.26	0	0.06	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

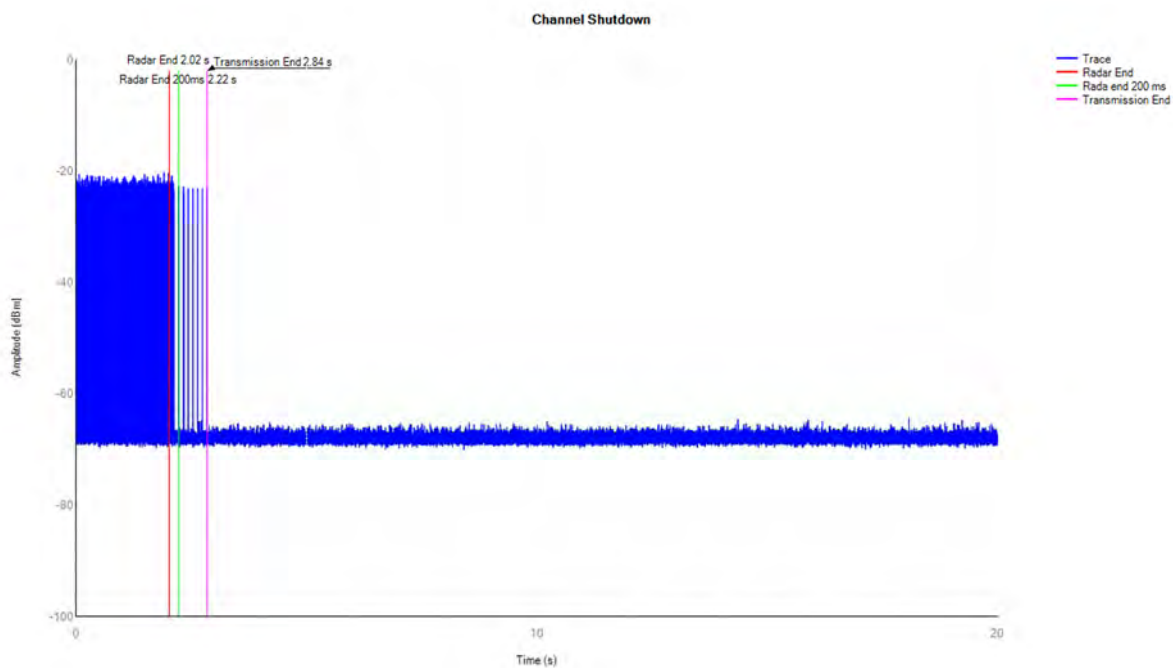
RBW: 3MHz

VBW: 3MHz

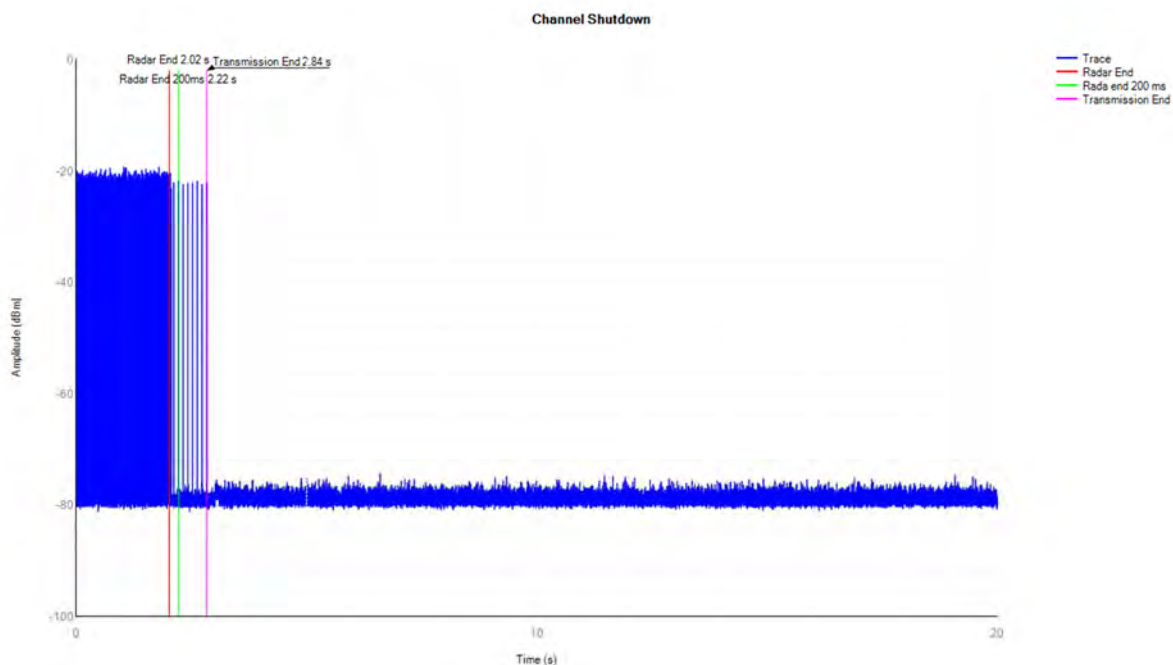
Sweep time: 20s

Test Graphs

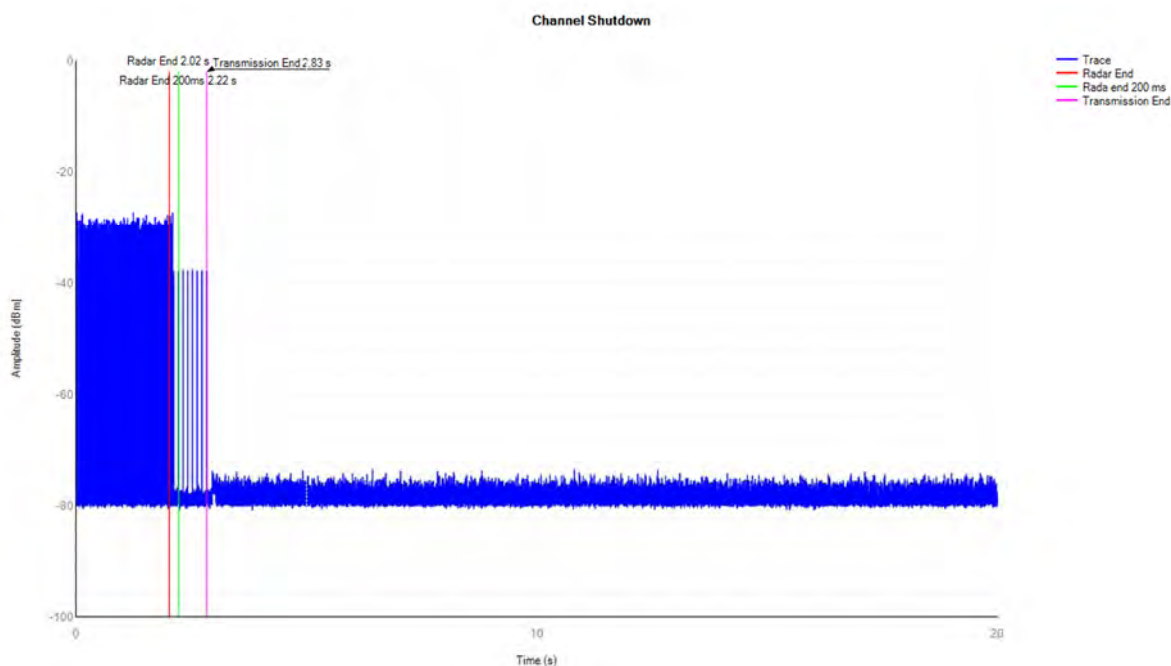
ax20 5320MHz Shutdown



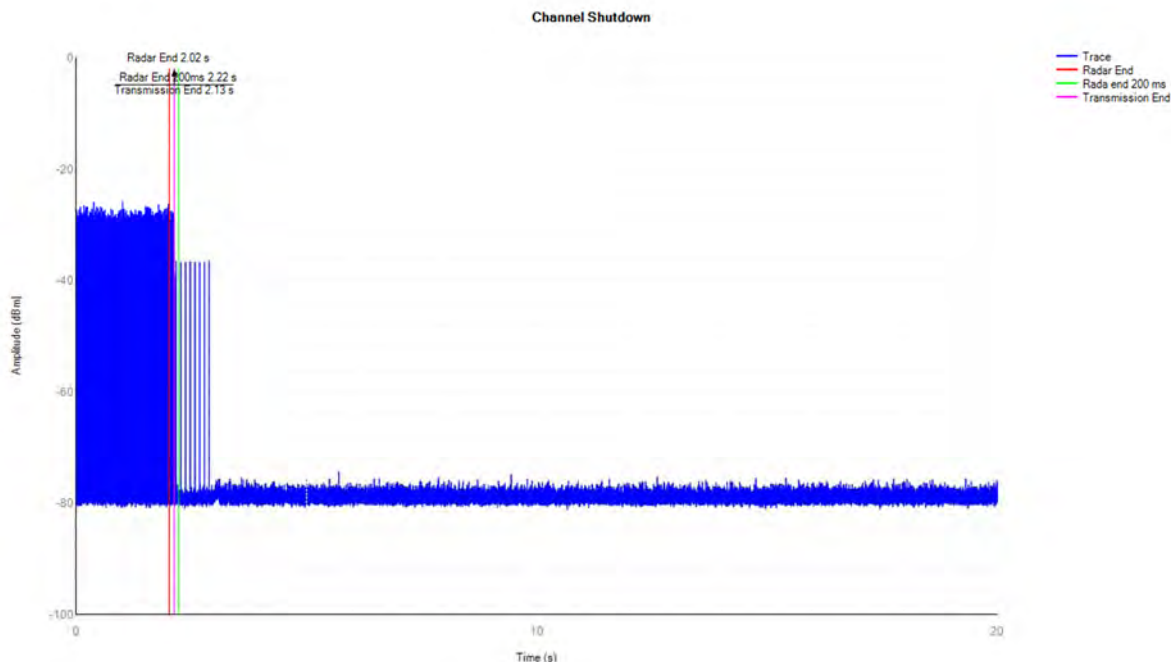
ax20 5500MHz Shutdown



ax40 5310MHz Shutdown



ax40 5510MHz 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.

**Non-Occupancy Period**

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

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

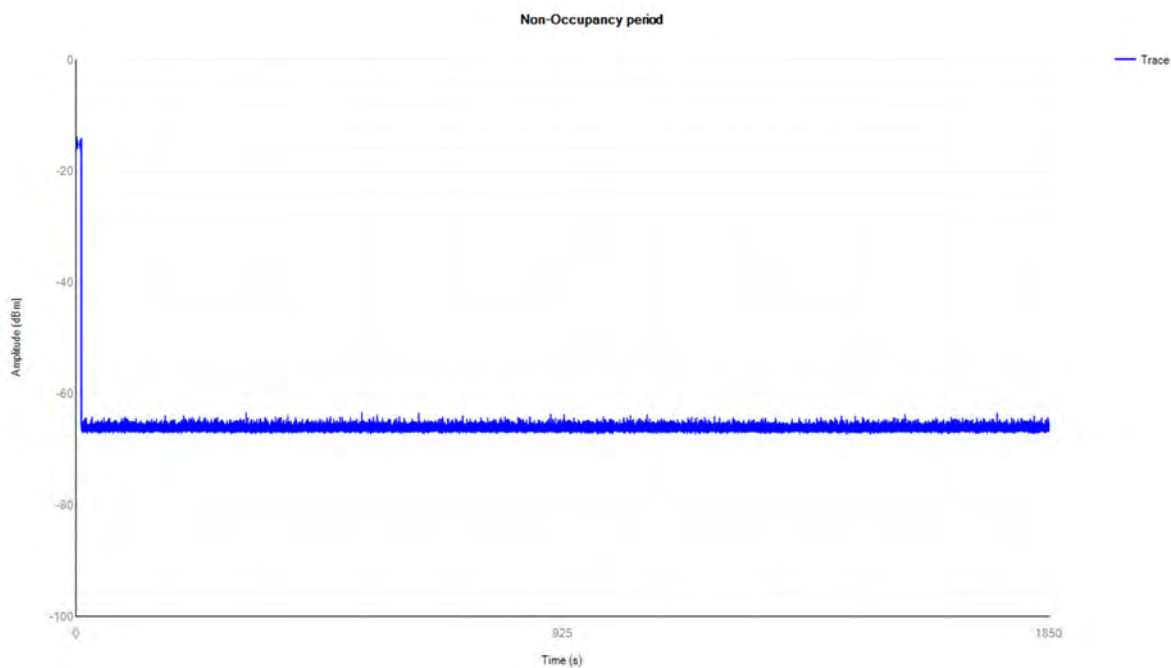
RBW: 3MHz

VBW: 3MHz

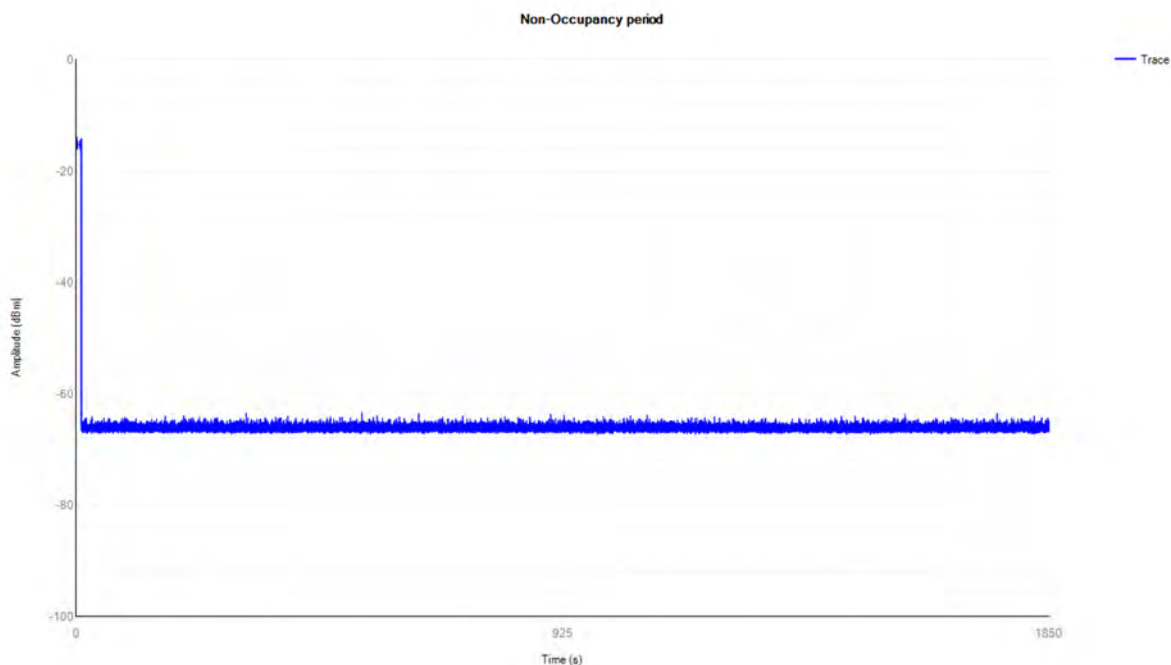
Sweep time: 1850s

Test Graphs

a 5260MHz Non-Occupancy



a 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 + PC + PC Adapter +WIFI TX

Test voltage: AC 120V/60Hz

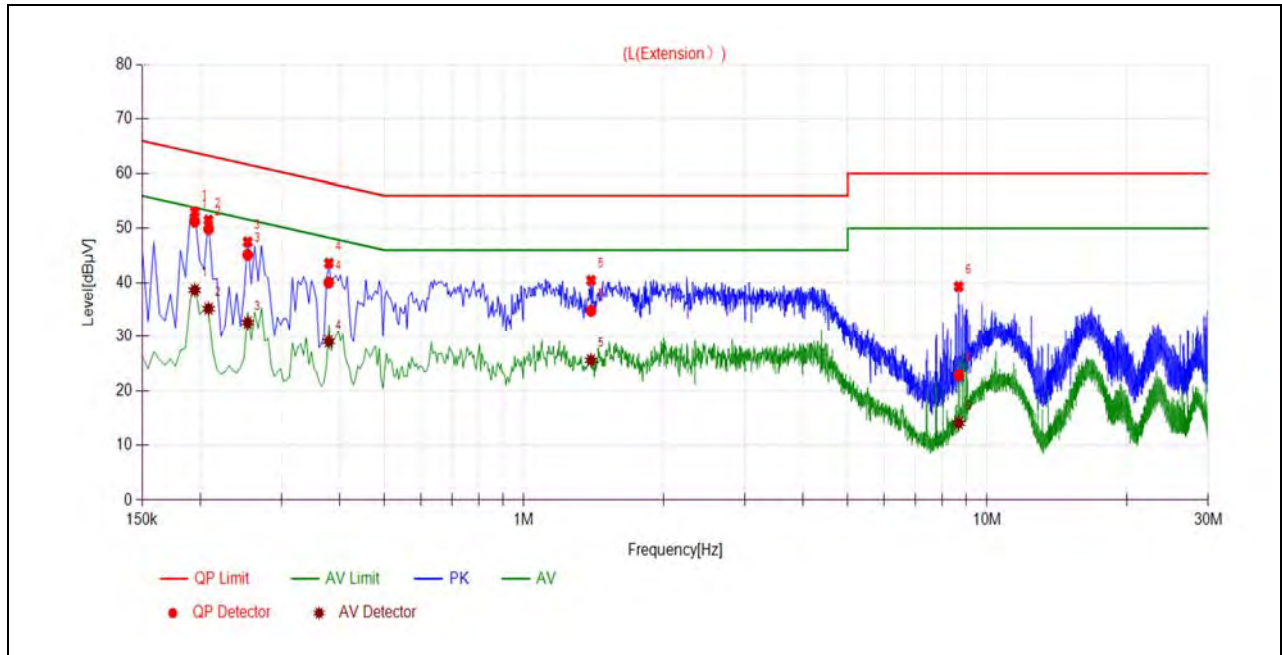
The measurement results are obtained as below:

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

U_R : Receiver Reading

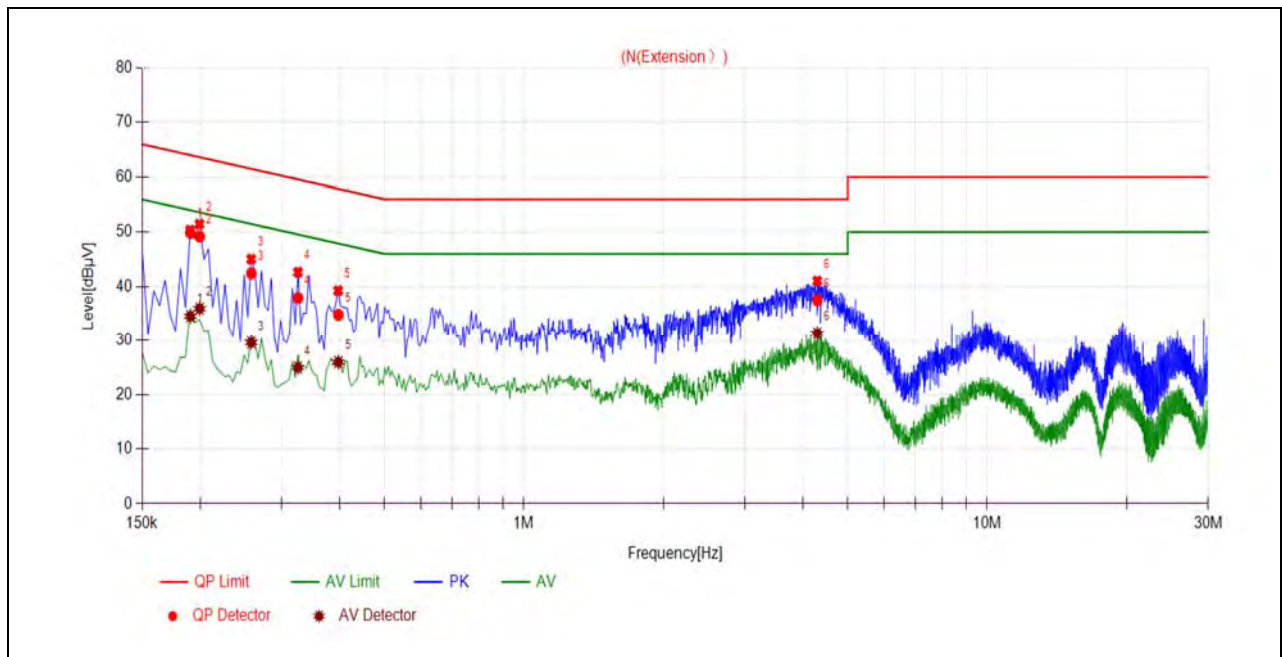
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1948	51.28	38.64	63.83	53.83	Line	PASS
2	0.2087	49.91	35.22	63.26	53.26		PASS
3	0.2535	45.13	32.64	61.64	51.64		PASS
4	0.3792	40.04	29.06	58.30	48.30		PASS
5	1.3965	34.83	25.58	56.00	46.00		PASS
6	8.6857	22.82	14.03	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	0.1906	49.87	34.56	64.01	54.01	Neutral	PASS
2	0.1996	49.18	35.95	63.63	53.63		PASS
3	0.2580	42.41	29.60	61.50	51.50		PASS
4	0.3254	37.91	24.95	59.57	49.57		PASS
5	0.3978	34.81	25.97	57.90	47.90		PASS
6	4.2981	37.48	31.34	56.00	46.00		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

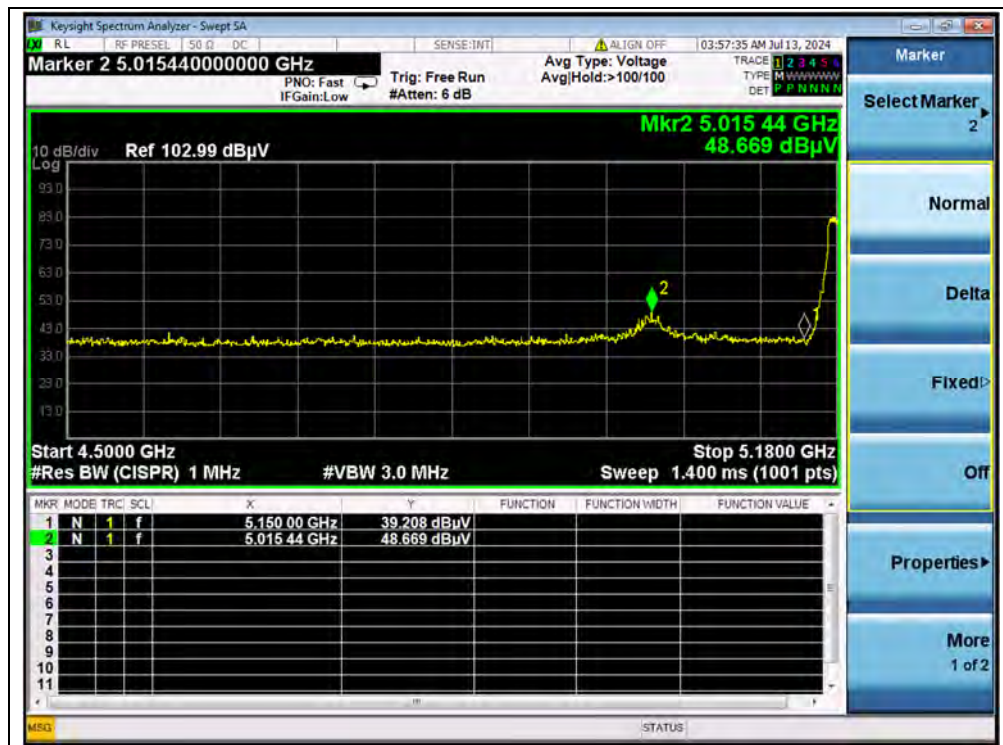
A_{Factor} : Antenna Factor at 3m

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.

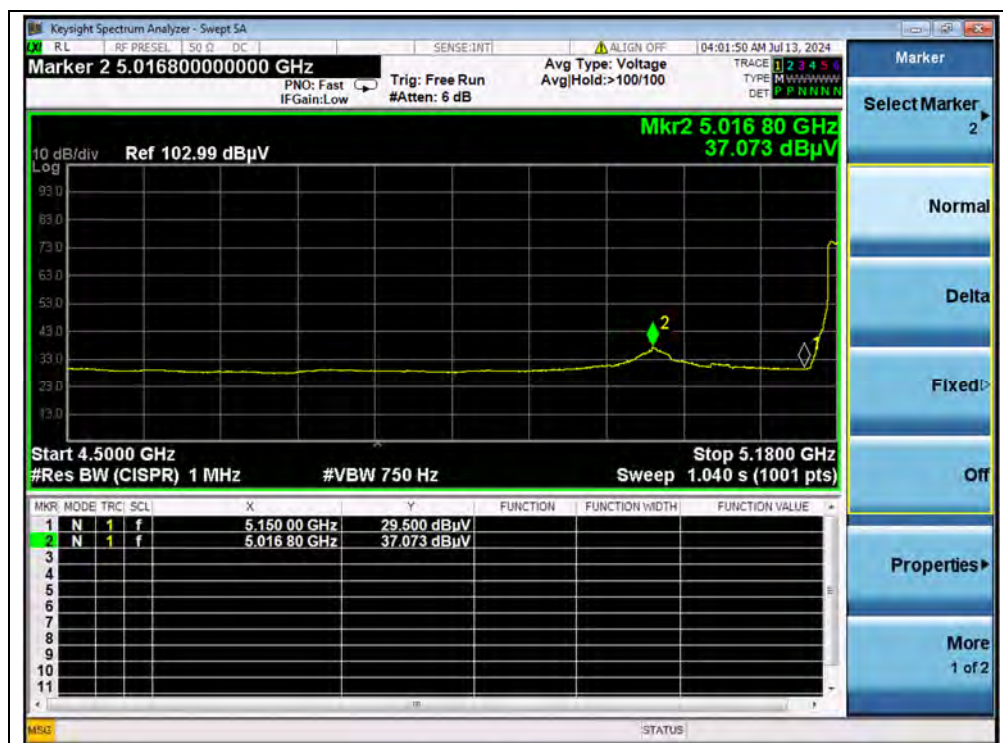
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

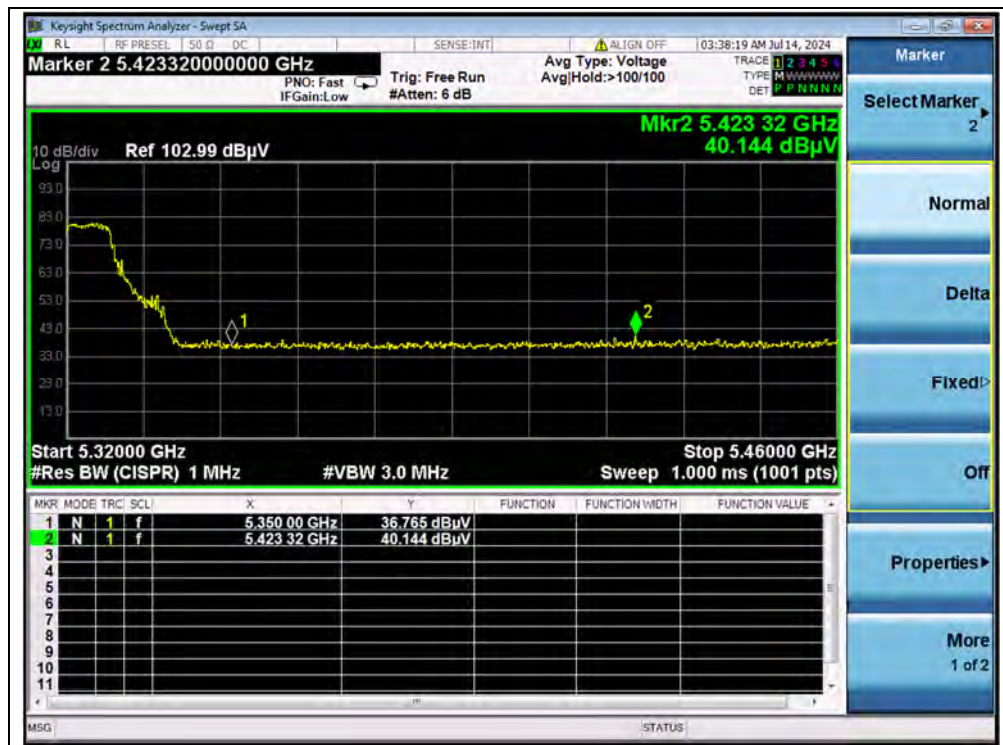
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5015.44	PK	48.67	-21.29	32.20	59.58	74	PASS
36	5016.80	AV	37.07	-21.29	32.20	47.98	54	PASS
64	5423.32	PK	40.14	-20.66	32.20	51.68	74	PASS
64	5429.20	AV	29.16	-20.66	32.20	40.70	54	PASS
100	5086.50	PK	44.97	-20.24	32.20	56.93	74	PASS
100	5091.00	AV	34.41	-20.24	32.20	46.37	54	PASS
144	5940.60	PK	43.29	-20.24	32.20	55.25	68.23	PASS
149	5725.00	PK	45.35	-21.11	32.20	56.44	122.23	PASS
165	5850.00	PK	42.23	-21.11	32.20	53.32	122.23	PASS



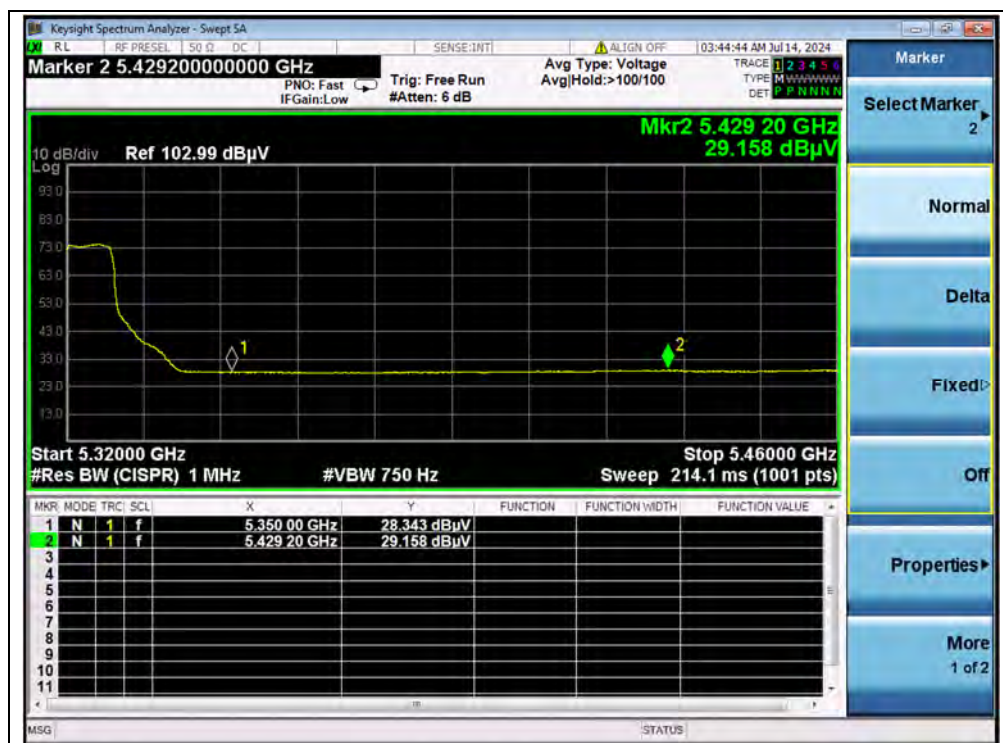
(PEAK, Channel 36, 802.11a)



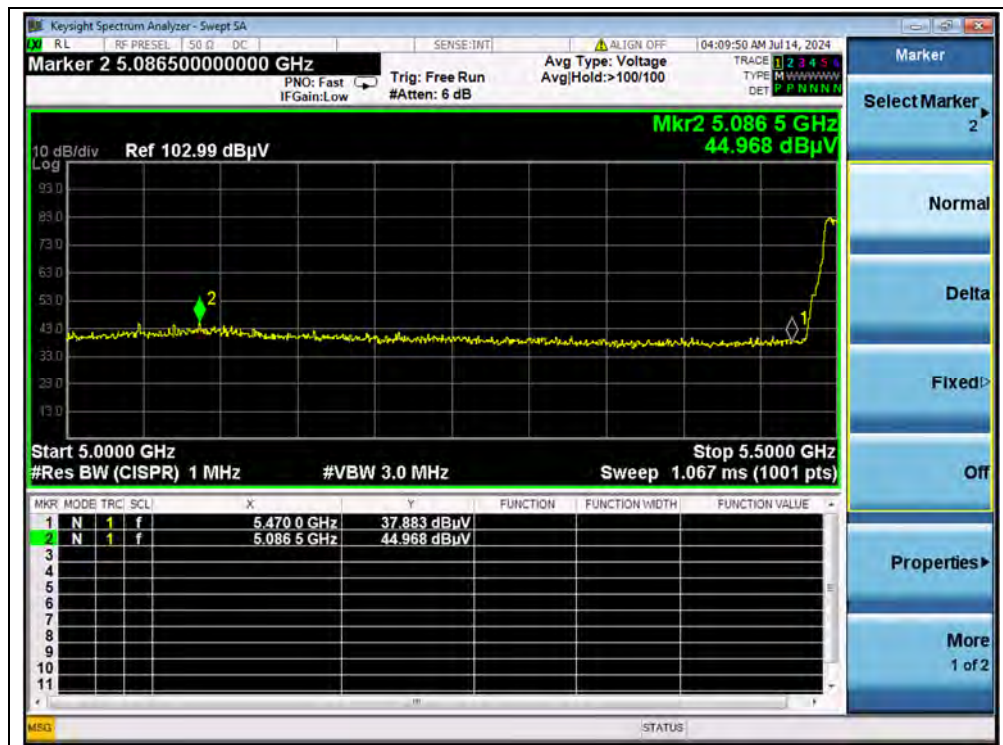
(AVERAGE, Channel 36, 802.11a)



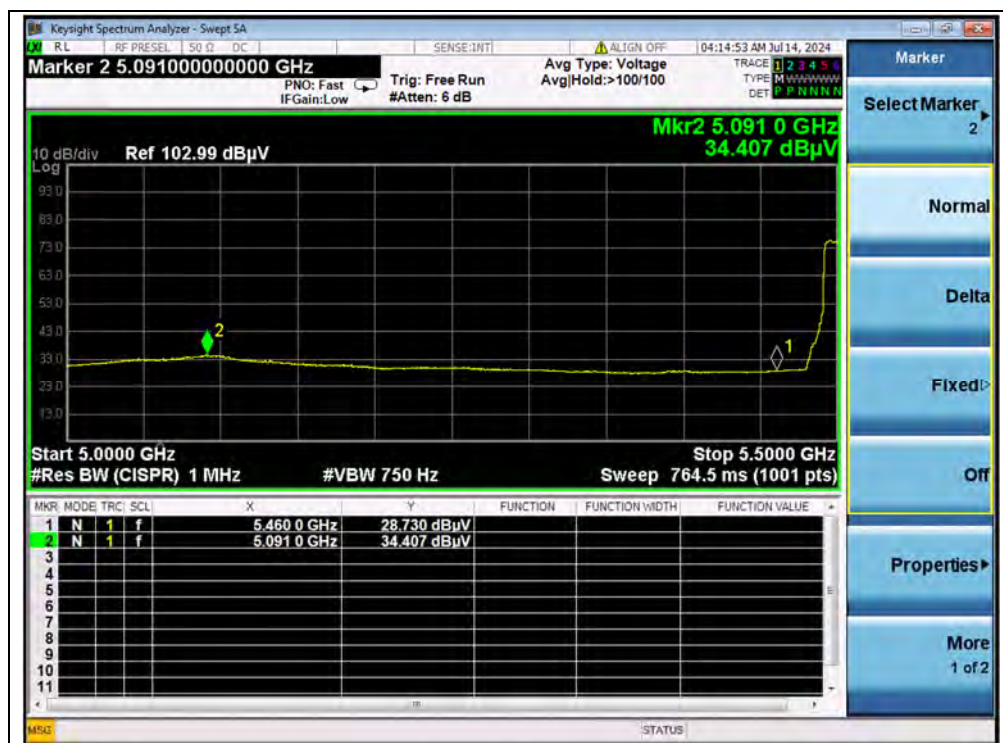
(PEAK, Channel 64, 802.11a)



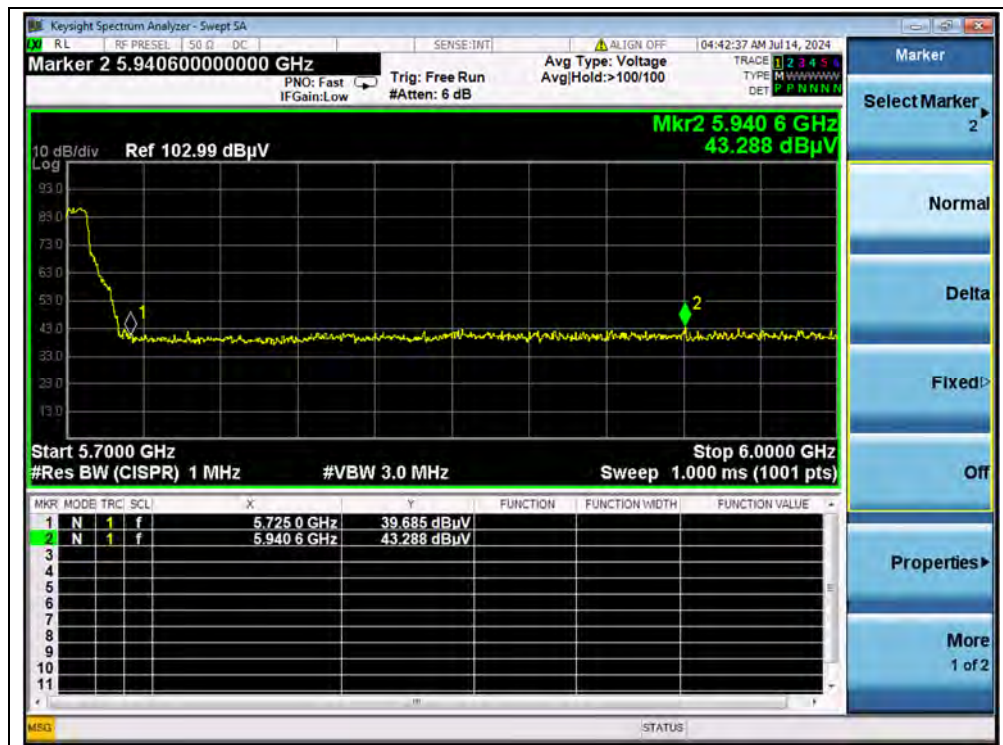
(AVERAGE, Channel 64, 802.11a)



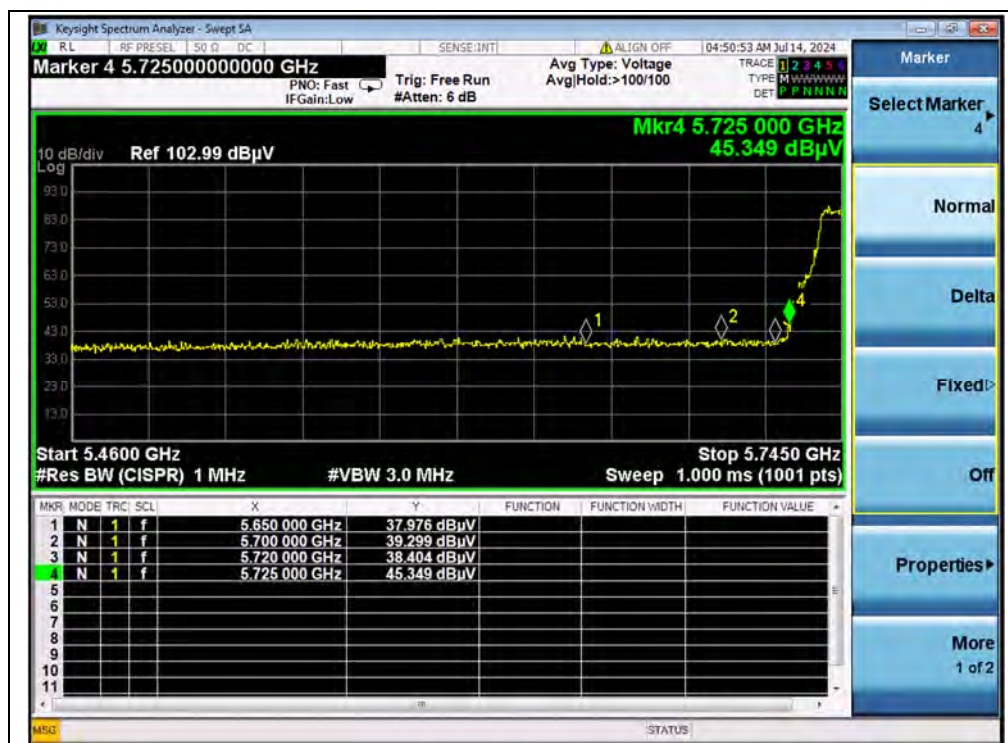
(PEAK, Channel 100, 802.11a)



(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)

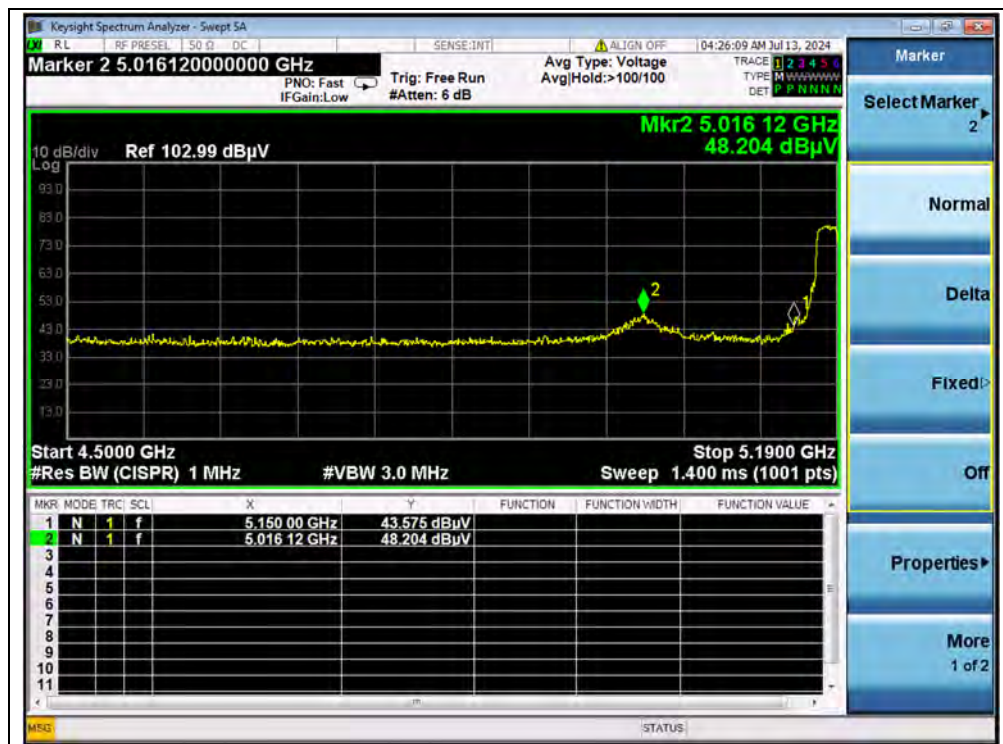


(PEAK, Channel 165, 802.11a)

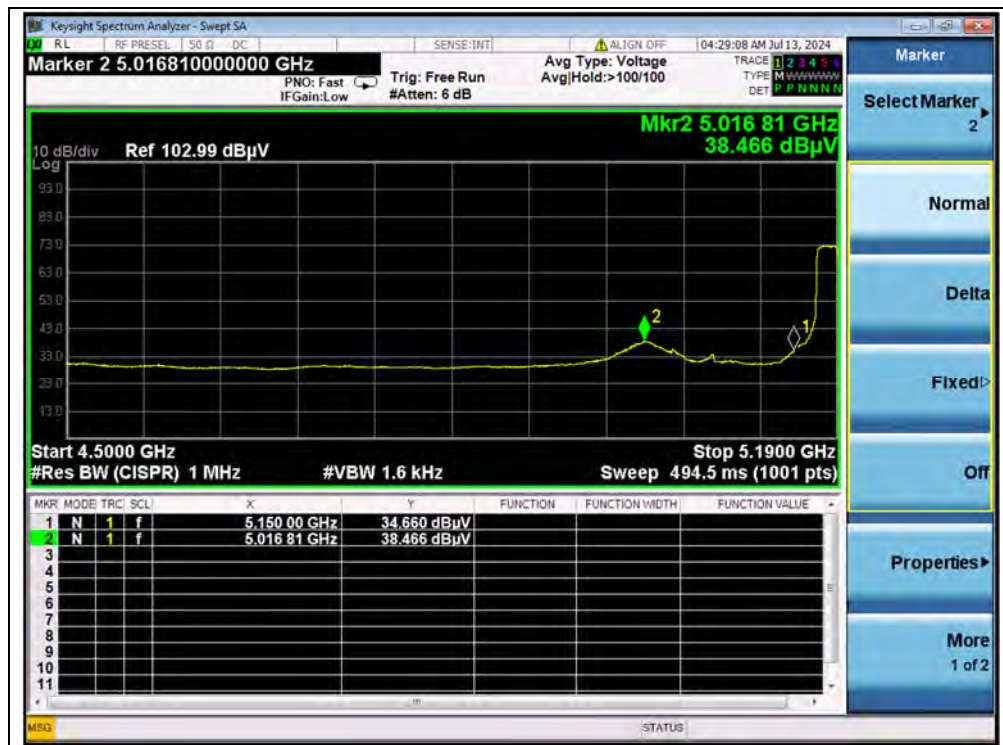


802.11n (HT40) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5016.12	PK	48.20	-21.29	32.20	59.11	74	PASS
38	5016.81	AV	38.47	-21.29	32.20	49.38	54	PASS
62	5423.25	PK	39.19	-20.66	32.20	50.73	74	PASS
62	5425.35	AV	29.97	-20.66	32.20	41.51	54	PASS
102	5075.99	PK	45.47	-20.24	32.20	57.43	74	PASS
102	5094.86	AV	36.19	-20.24	32.20	48.15	54	PASS
142	5893.41	PK	43.59	-20.24	32.20	55.55	68.23	PASS
151	5725.00	PK	45.69	-21.11	32.20	56.78	122.23	PASS
159	5850.00	PK	44.29	-21.11	32.20	55.38	122.23	PASS



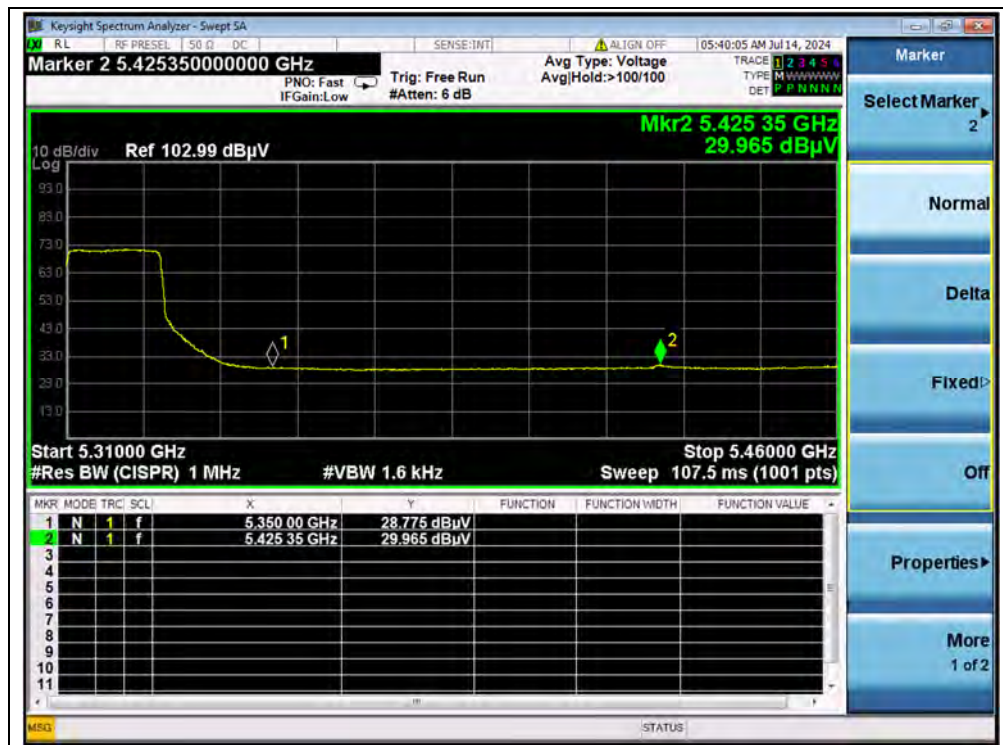
(PEAK, Channel 38, 802.11n (HT40))



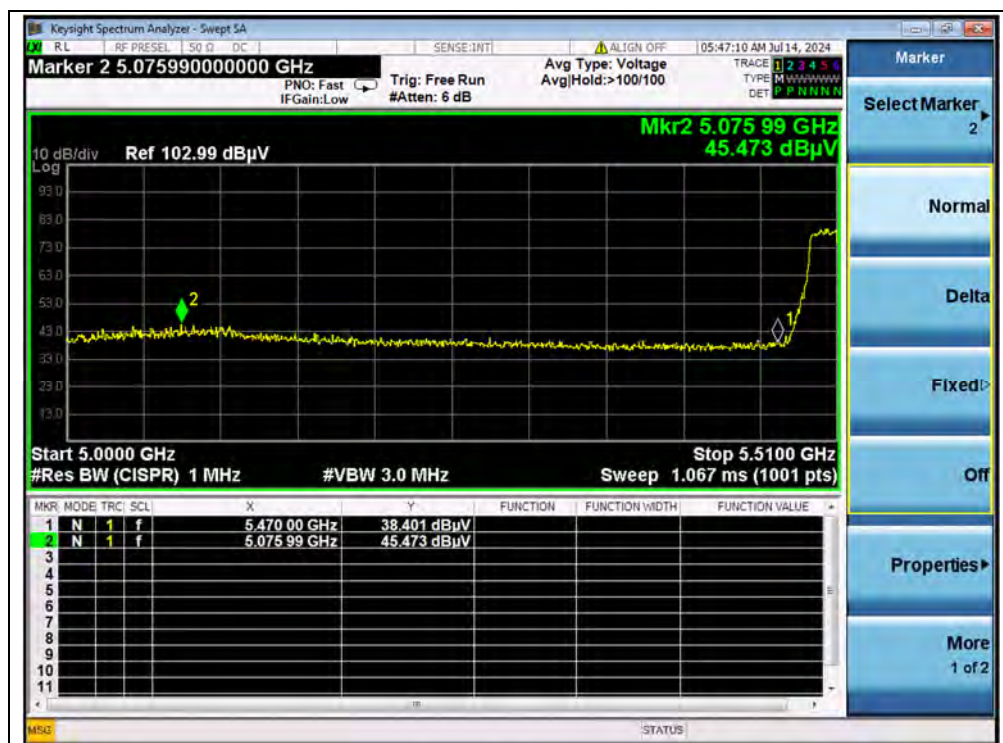
(AVERAGE, Channel 38, 802.11n (HT40))



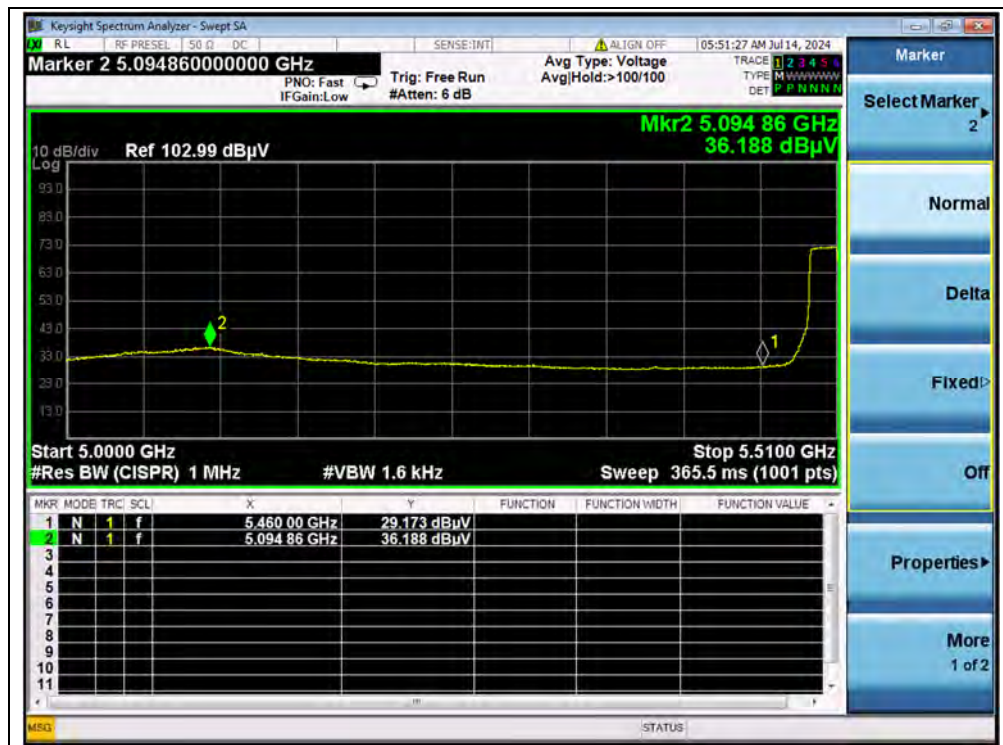
(PEAK, Channel 62, 802.11n (HT40))



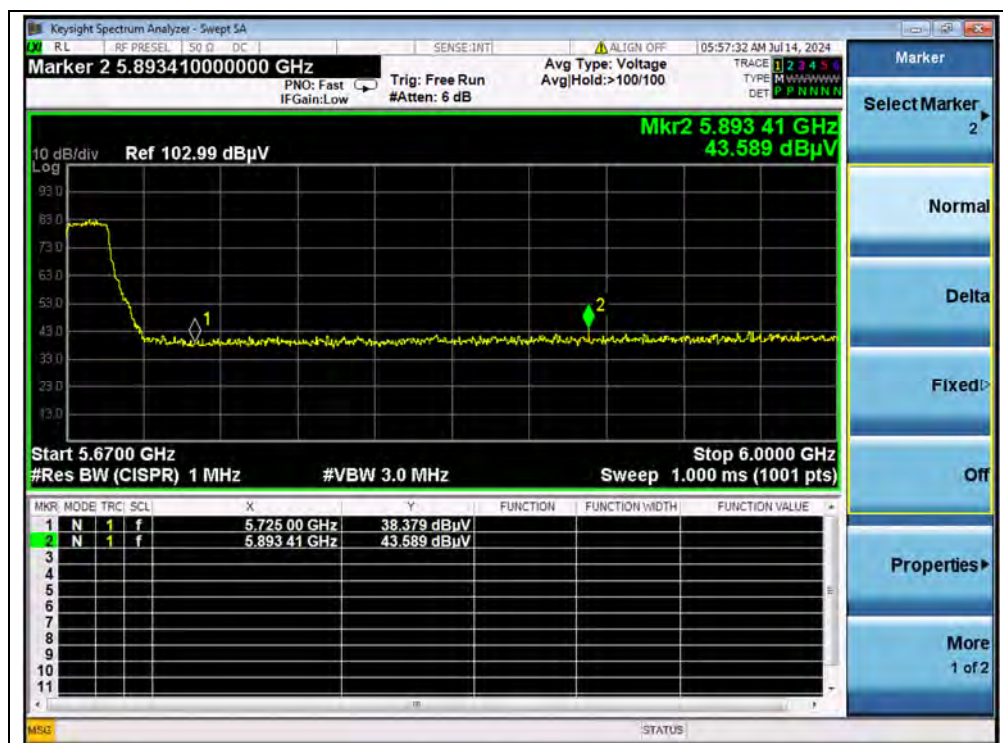
(AVERAGE, Channel 62, 802.11n (HT40))



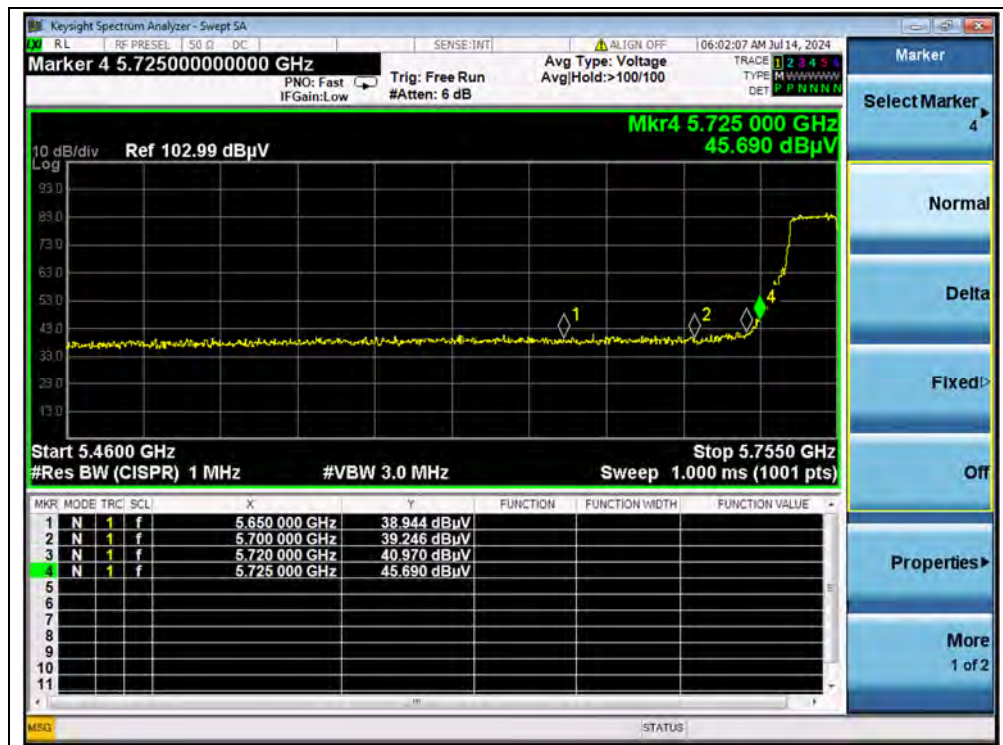
(PEAK, Channel 102, 802.11n (HT40))



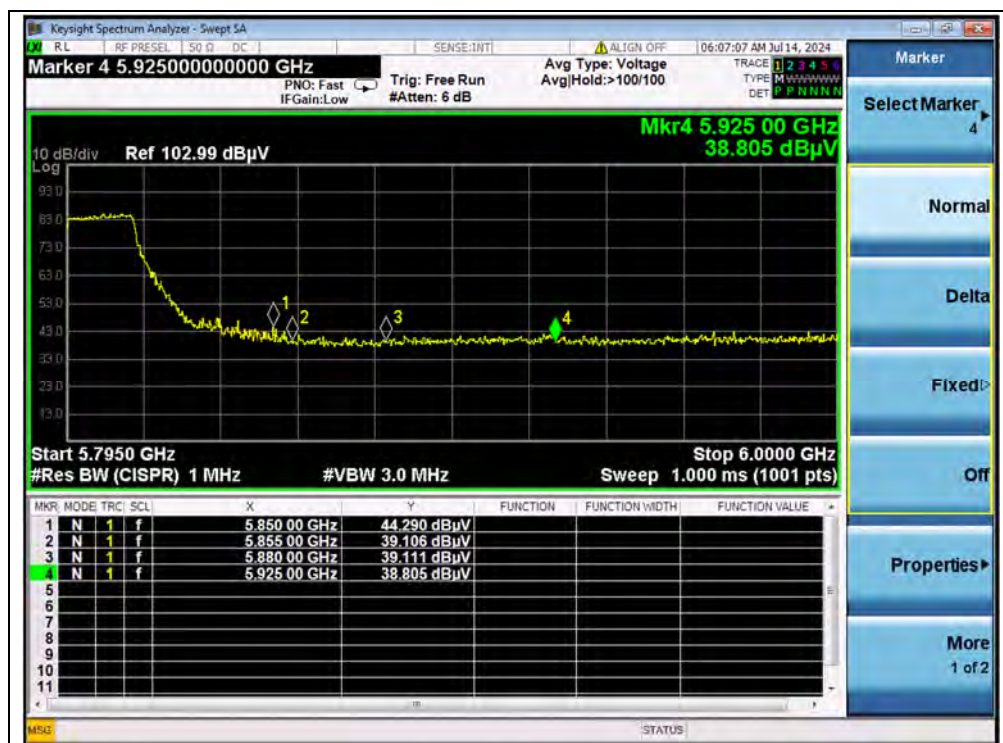
(AVERAGE, Channel 102, 802.11n (HT40))



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



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



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



A.9. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

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

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

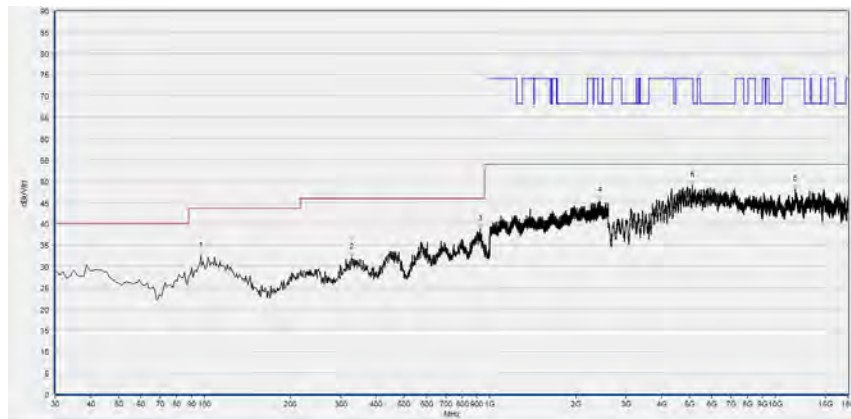
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

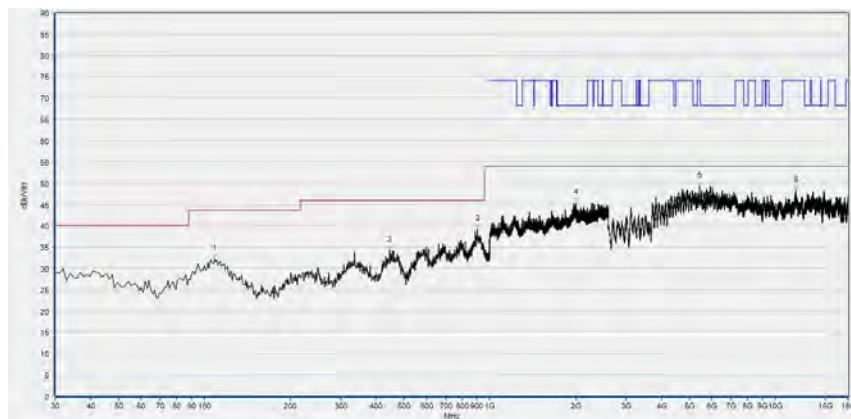
**802.11a Mode**

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	32.40	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
328.760	32.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
925.310	38.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2416.000	45.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5134.840	48.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11772.240	48.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

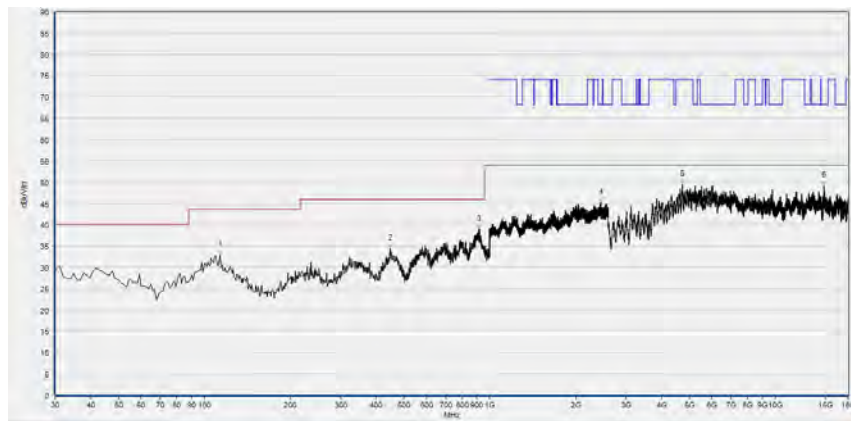


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
446.130	34.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
903.000	39.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2003.733	45.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5424.360	49.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11787.640	48.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

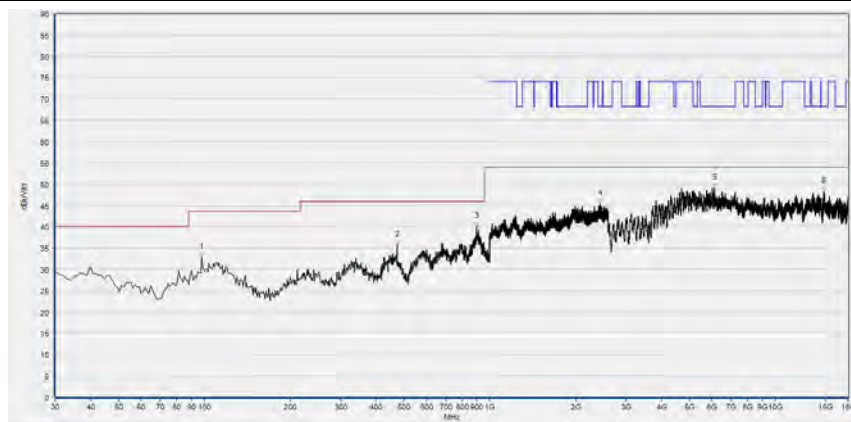


Plot for Channel 60



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
448.070	34.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
913.670	38.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2454.933	45.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4719.040	49.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14836.840	49.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

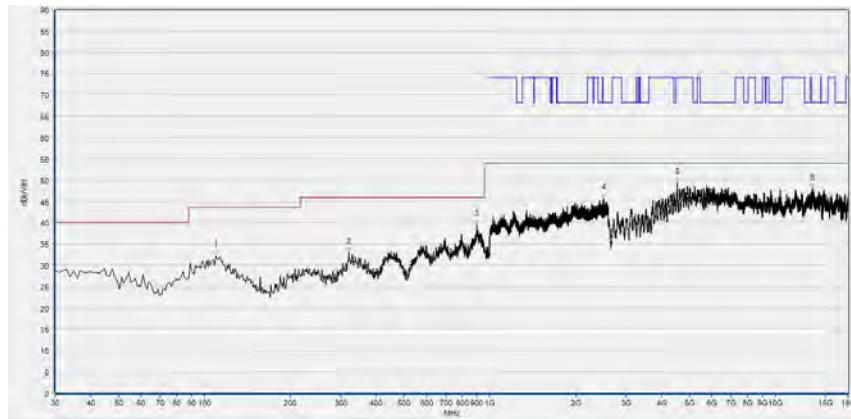
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.900	32.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
473.290	35.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
897.180	40.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2430.400	45.42	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6120.440	49.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14809.120	48.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

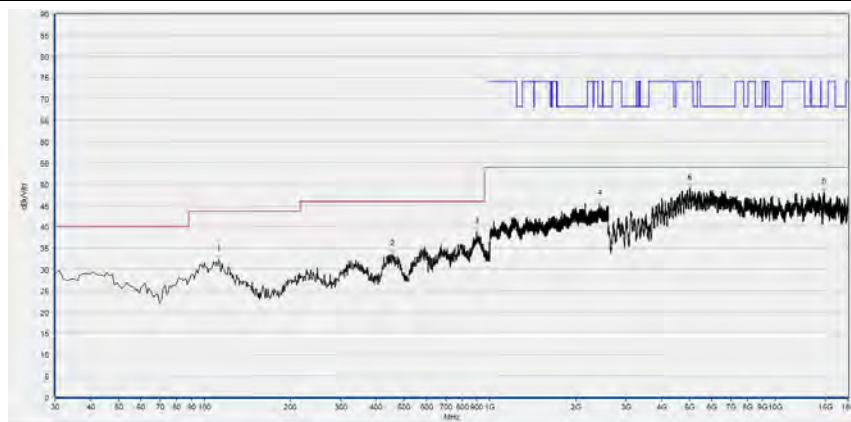
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
321.000	32.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
901.060	39.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2509.867	45.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4537.320	49.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13472.400	48.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

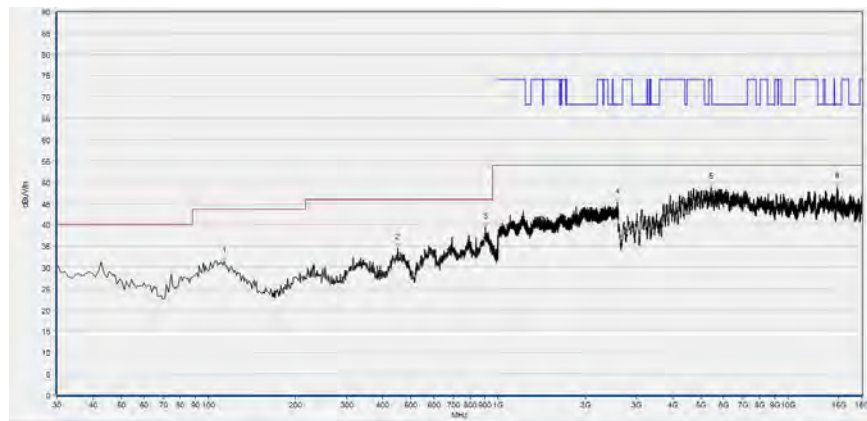
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.450	32.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
454.860	33.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
897.180	38.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2425.600	45.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5020.880	48.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14809.120	48.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

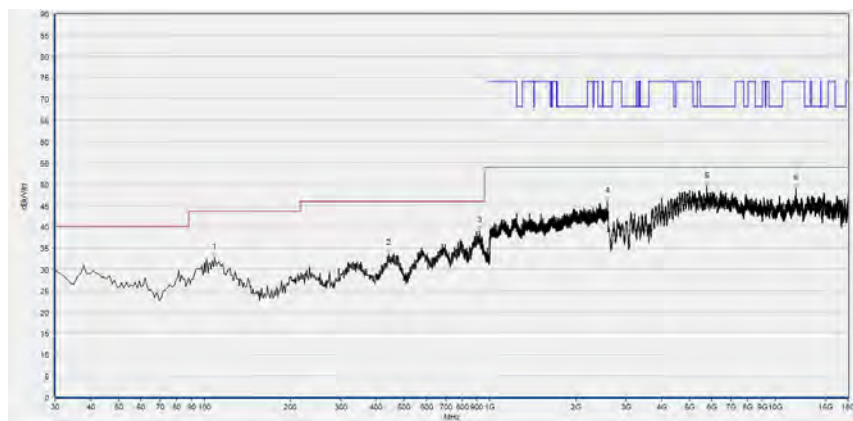
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	31.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
450.010	34.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
902.030	39.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2577.600	45.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5433.600	48.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14824.520	48.93	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

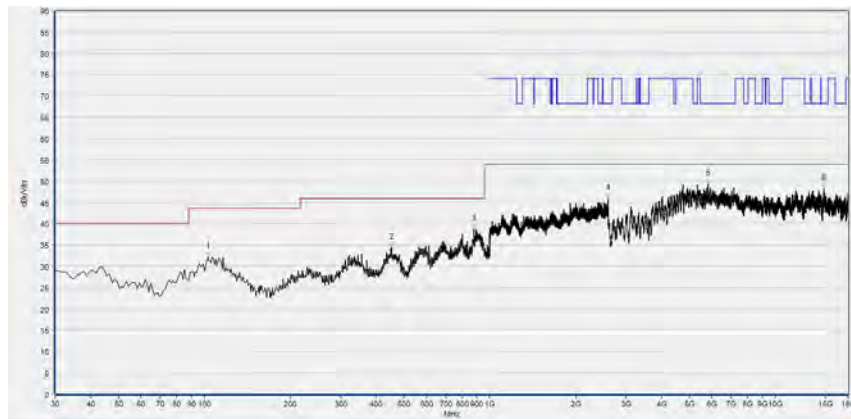


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
443.220	33.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
922.400	39.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2580.267	45.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5744.680	49.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11793.800	48.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

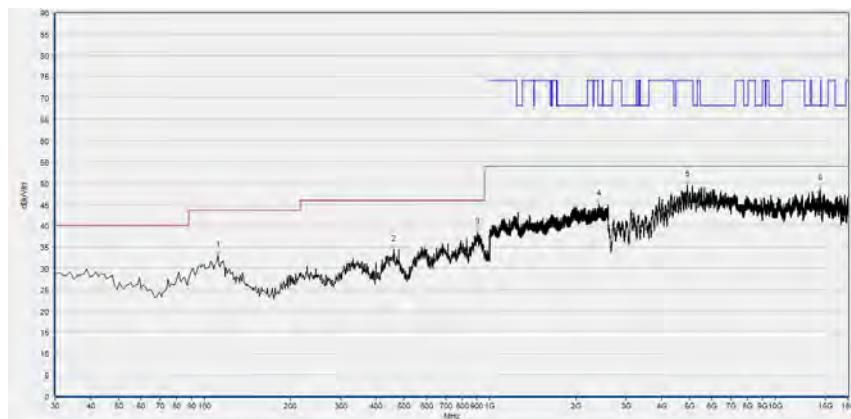
**802.11n (HT40) mode**

Plot for Channel 46



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
452.920	34.38	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
879.720	38.68	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2588.800	45.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5824.760	49.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14799.880	48.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

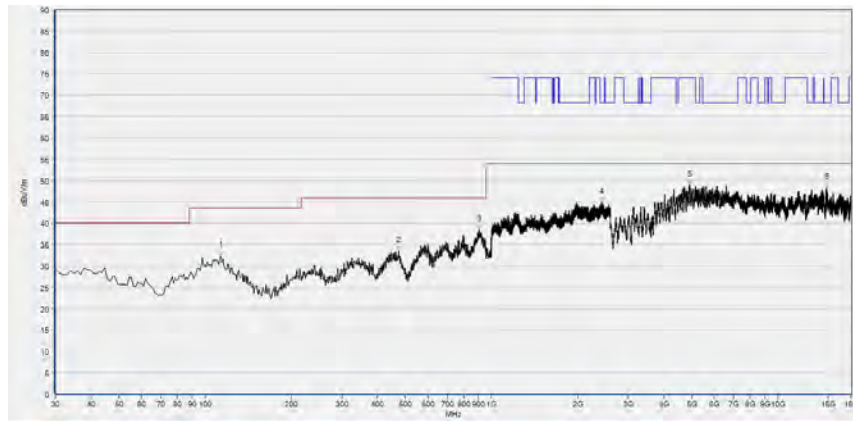


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.99	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
461.650	34.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
904.940	38.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.200	45.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4928.480	49.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14417.960	48.65	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

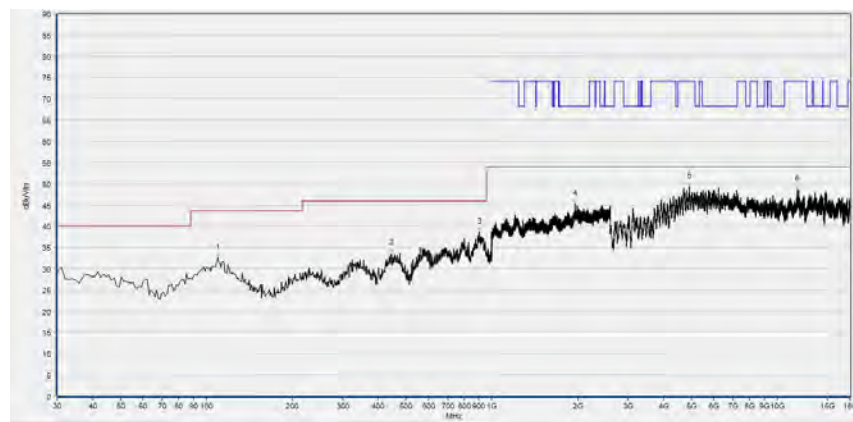


Plot for Channel 62



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
474.260	33.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
904.940	38.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2421.333	44.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4916.160	48.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14818.360	48.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

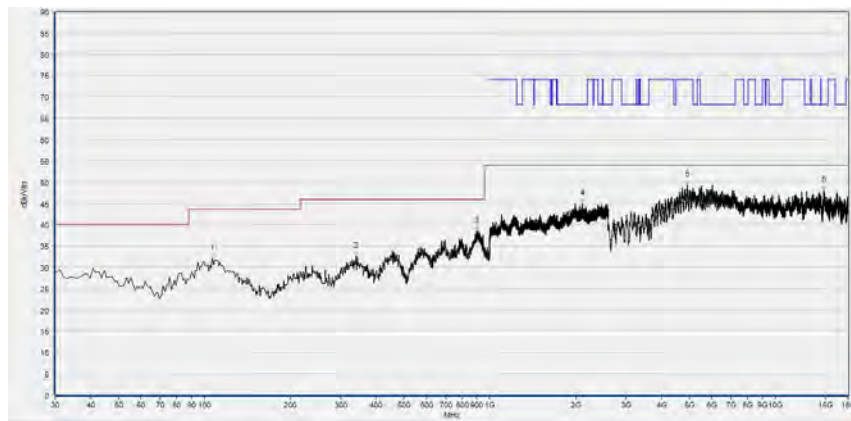
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
445.160	33.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
904.940	38.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1961.067	45.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4928.480	49.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11778.400	48.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

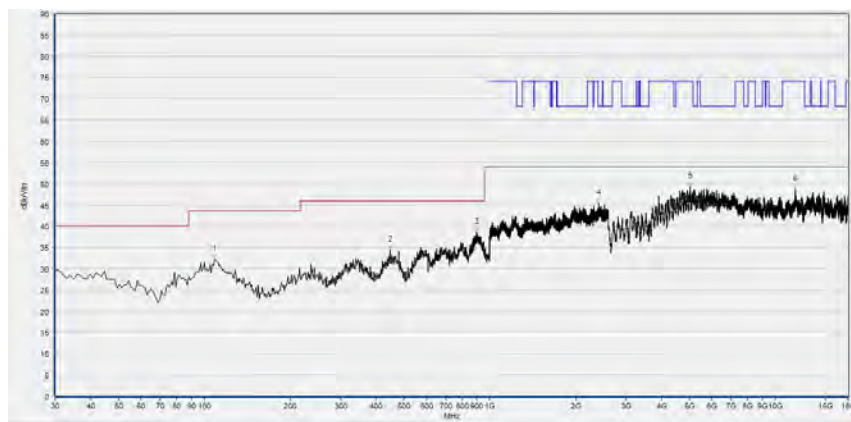
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
340.400	32.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
897.180	38.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2108.267	44.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4922.320	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14812.200	48.14	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

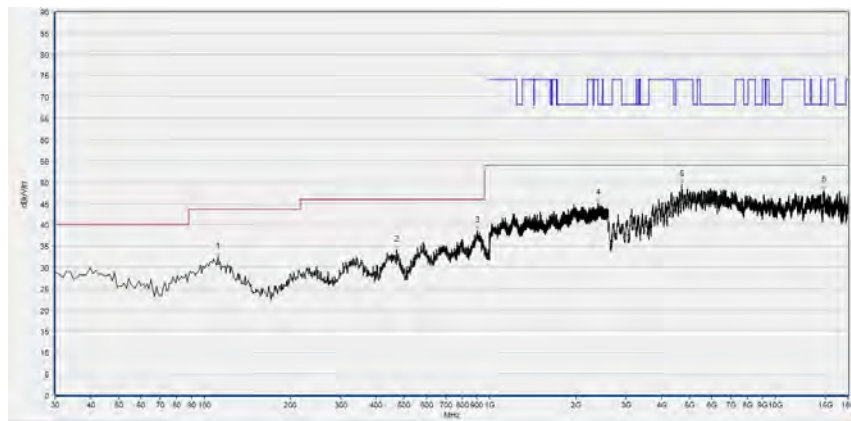


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
447.100	34.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
900.090	38.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2403.200	45.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5023.960	49.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11772.240	48.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

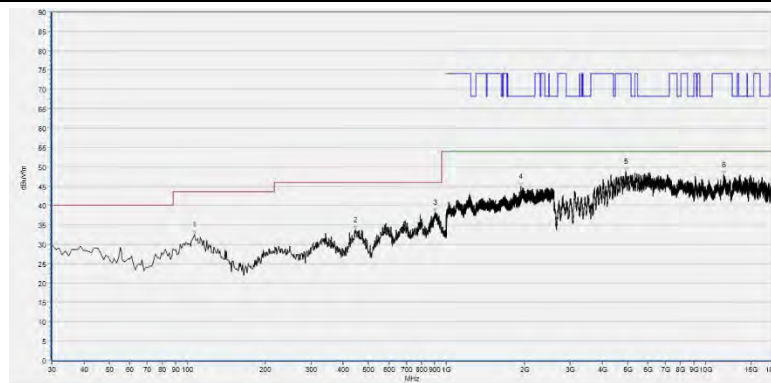


Plot for Channel 159



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.36	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
472.320	34.01	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
902.030	38.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2397.333	45.16	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4706.720	49.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14766.000	48.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
446.130	33.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
902.030	38.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1939.733	44.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4922.320	48.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11763.000	47.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT