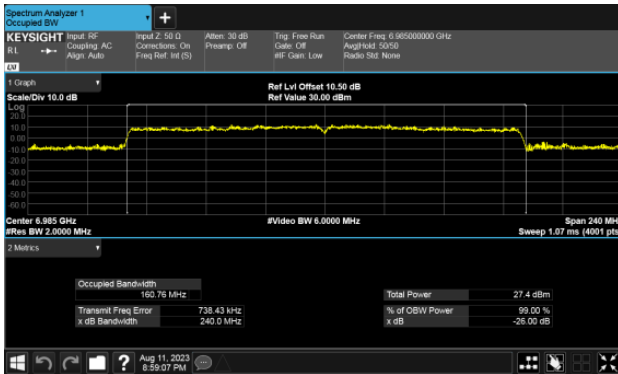
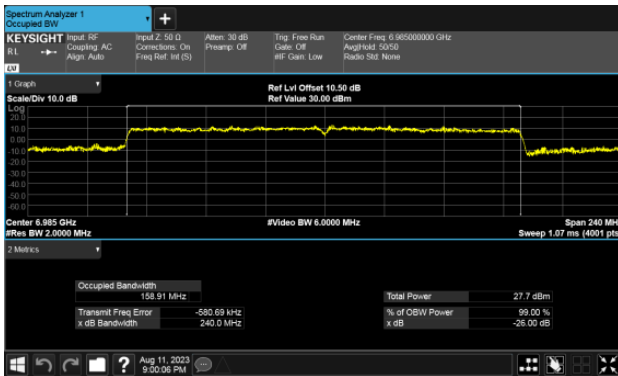




99% Bandwidth
Modulation Type: 802.11ax HE160 CH207
ANT A



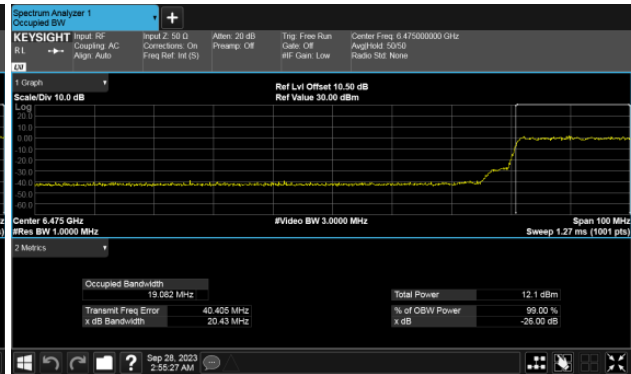
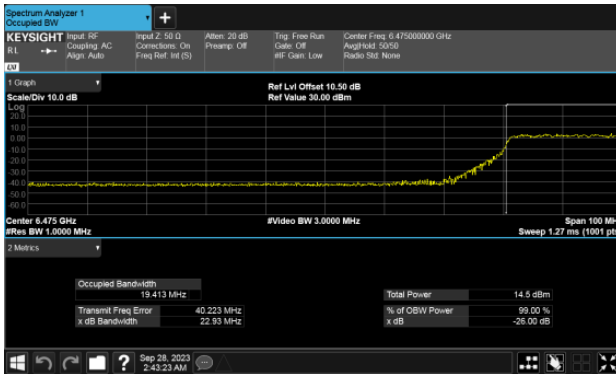
ANT B





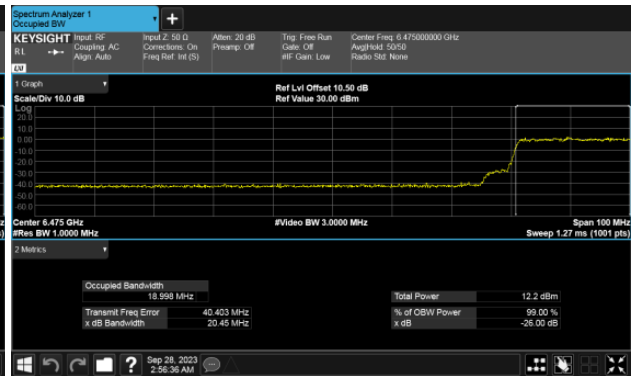
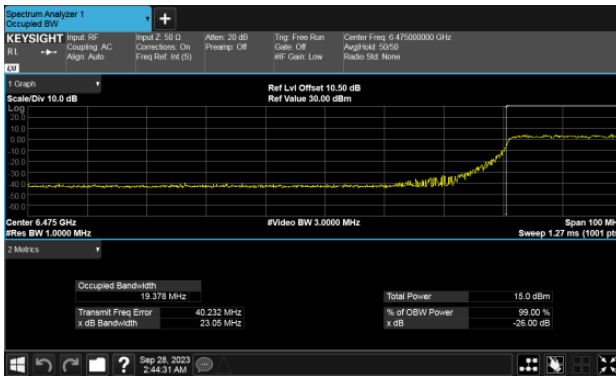
99% Bandwidth Within 6425-6525MHz band
Modulation Type: 802.11ax HE40 CH115
ANT A

Modulation Type: 802.11ax HE80 CH119
ANT A



ANT B

ANT B





99% Bandwidth Within 6425-6525MHz band
Modulation Type: 802.11ax HE160 CH111
ANT A



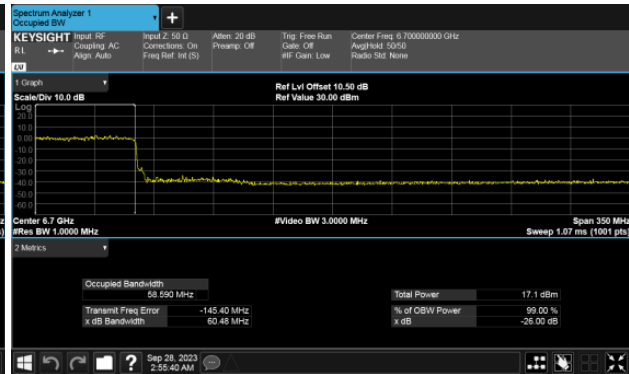
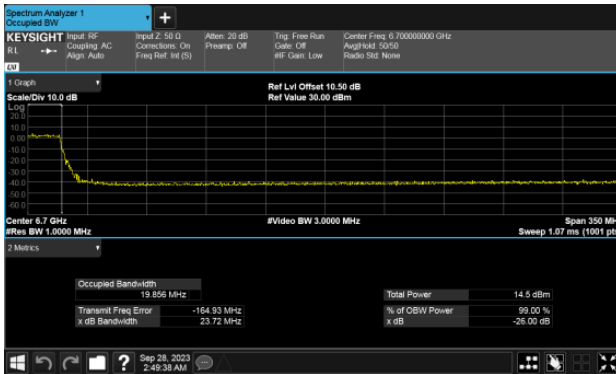
ANT B



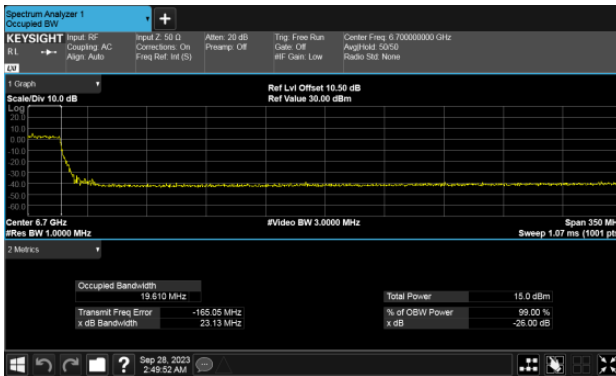


99% Bandwidth Extends across 6525MHz band
Modulation Type: 802.11ax HE40 CH115
ANT A

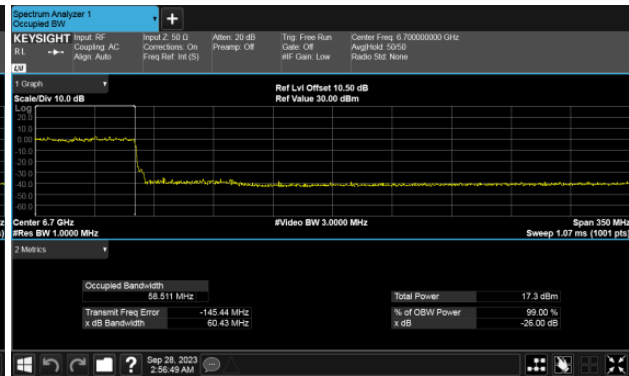
Modulation Type: 802.11ax HE80 CH119
ANT A



ANT B

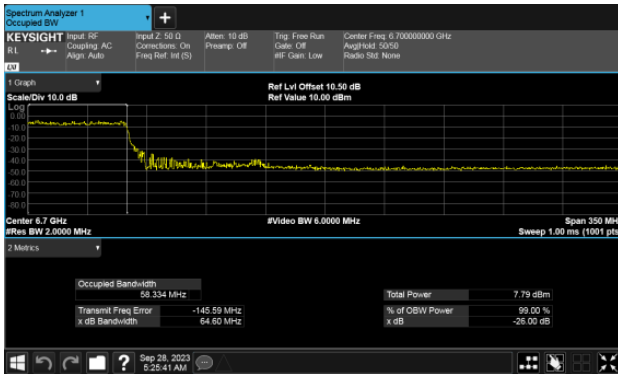


ANT B

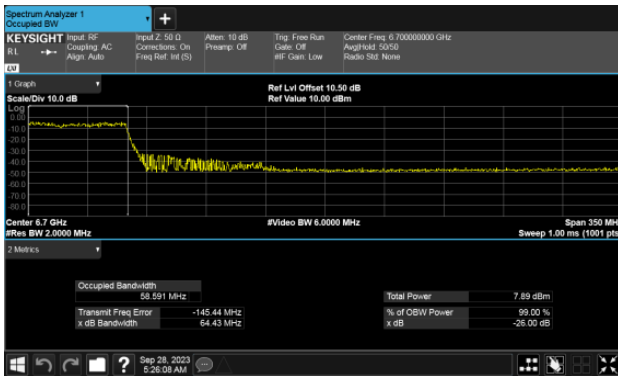




99% Bandwidth Extends across 6525MHz band
Modulation Type: 802.11ax HE160 CH111
ANT A



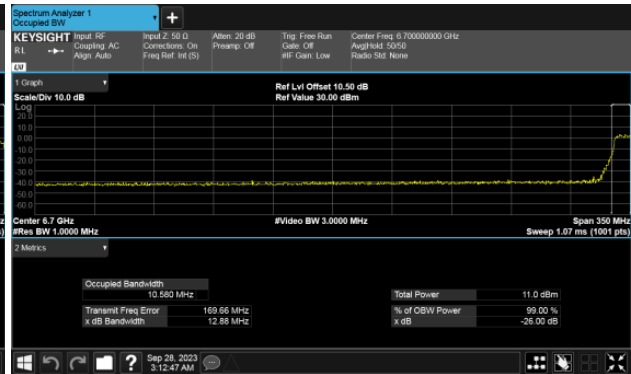
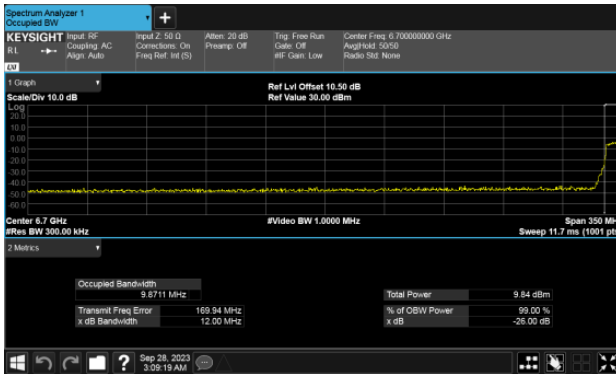
ANT B





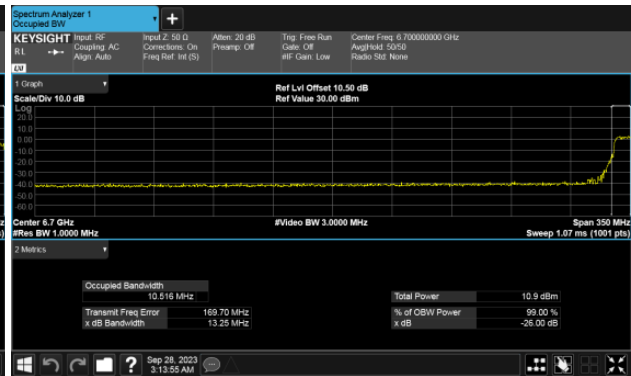
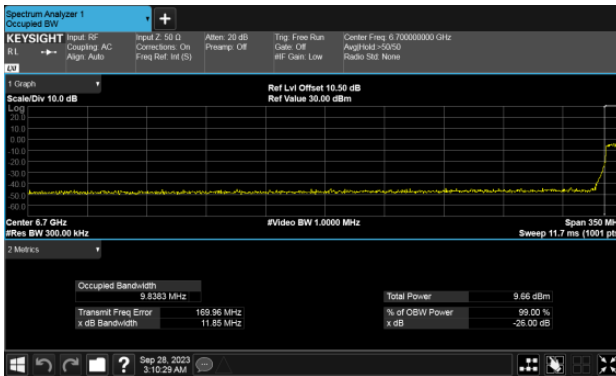
99% Bandwidth Within 6525-6875MHz band
Modulation Type: 802.11ax HE20 CH185
ANT A

Modulation Type: 802.11ax HE40 CH187
ANT A



ANT B

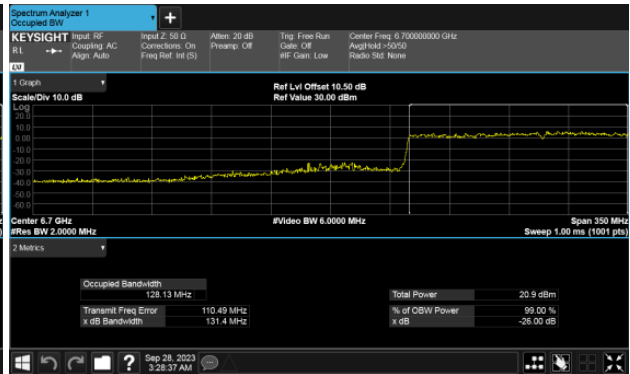
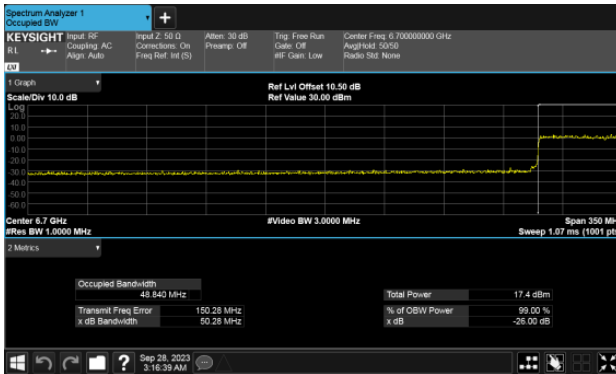
ANT B



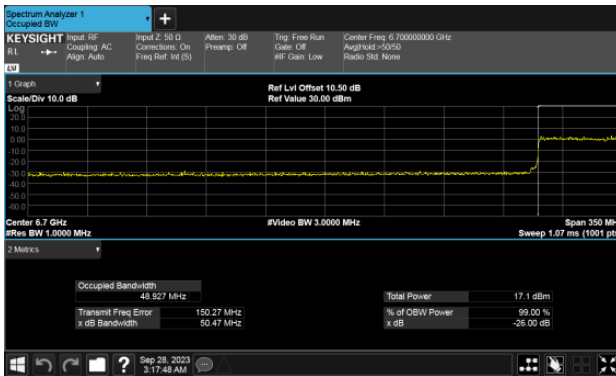


99% Bandwidth Within 6525-6875MHz band
Modulation Type: 802.11ax HE80 CH183
ANT A

Modulation Type: 802.11ax HE160 CH175
ANT A



ANT B



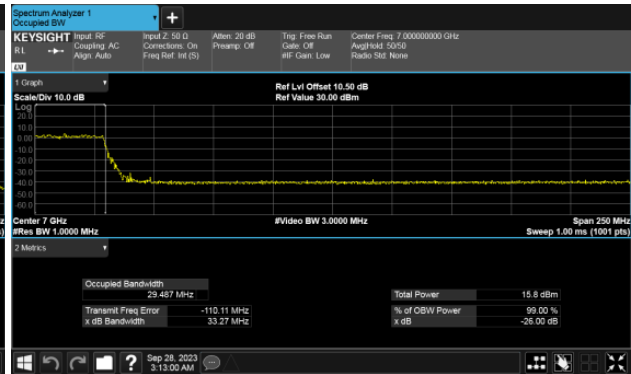
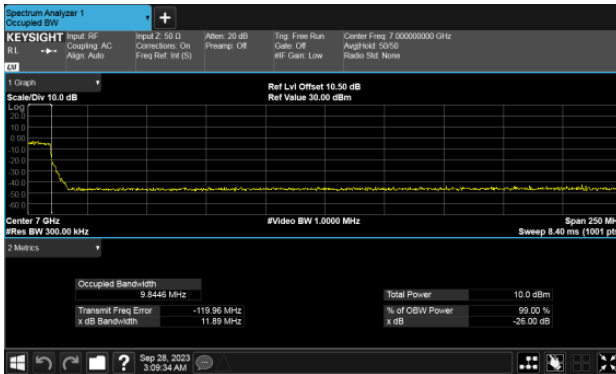
ANT B



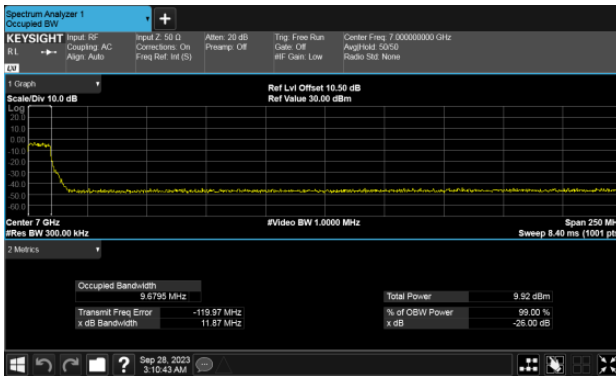


99% Bandwidth Extends across 6875MHz band
Modulation Type: 802.11ax HE20 CH185
ANT A

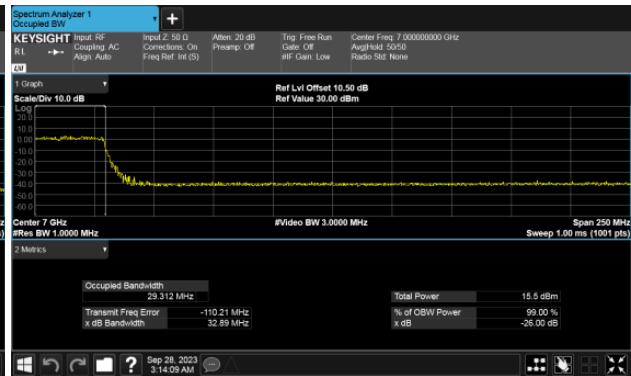
Modulation Type: 802.11ax HE40 CH187
ANT A



ANT B



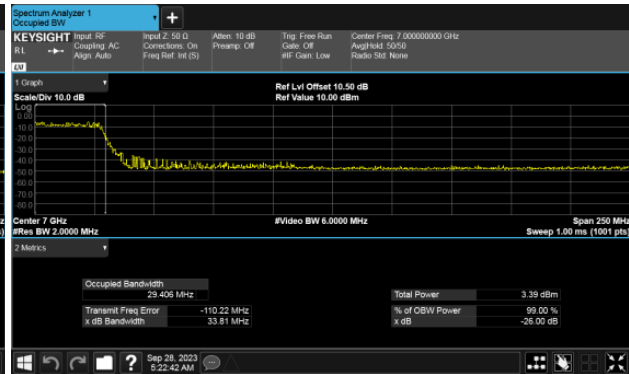
ANT B



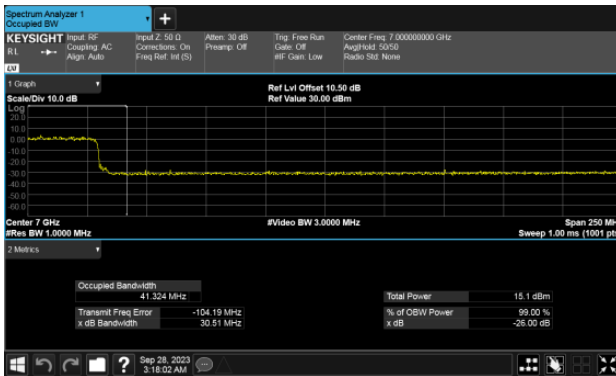


99% Bandwidth Extends across 6875MHz band
Modulation Type: 802.11ax HE80 CH183
ANT A

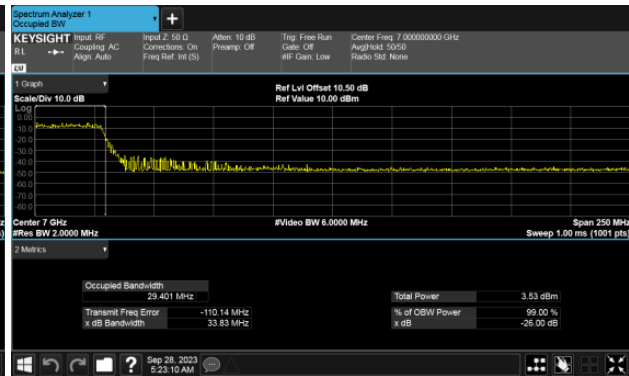
Modulation Type: 802.11ax HE160 CH175
ANT A



ANT B



ANT B





9. Maximum Equivalent Isotropically Radiated Power(E.I.R.P.)

9.1. Test Limit

Frequency Band	Limit	
<input checked="" type="checkbox"/> 5.925~6.425GHz		
Operating Mode		
<input type="checkbox"/>	For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
<input type="checkbox"/>	For indoor access point :	e.i.r.p < 30 dBm.
<input type="checkbox"/>	For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
<input type="checkbox"/>	For client device control of a standard power access point:	e.i.r.p < 30 dBm.
<input checked="" type="checkbox"/>	For client device control of an indoor access point:	e.i.r.p < 24 dBm.
<input checked="" type="checkbox"/> 6.425-6.525 GHz		
Operating Mode		
<input type="checkbox"/>	For indoor access point	e.i.r.p < 30 dBm.
<input checked="" type="checkbox"/>	For client device control of an indoor access point :	e.i.r.p < 24 dBm.
<input checked="" type="checkbox"/> 6.525~6.875 GHz		
Operating Mode		
<input type="checkbox"/>	For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
<input type="checkbox"/>	For indoor access point :	e.i.r.p < 30 dBm.
<input type="checkbox"/>	For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
<input type="checkbox"/>	For client device control of a standard power access point:	e.i.r.p < 30 dBm.
<input checked="" type="checkbox"/>	For client device control of an indoor access point:	e.i.r.p < 24 dBm.
<input checked="" type="checkbox"/> 6.875-7.125 GHz		
Operating Mode		
<input type="checkbox"/>	For indoor access point	e.i.r.p < 30 dBm.
<input checked="" type="checkbox"/>	For client device control of an indoor access point :	e.i.r.p < 24 dBm.



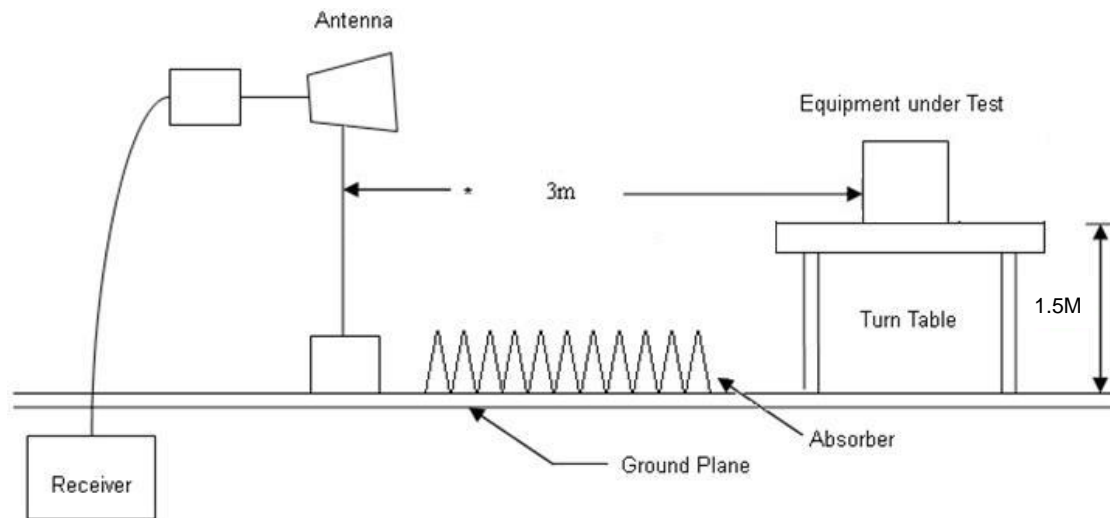
9.2. Test Procedure

According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.

For radiated measurement:

- * Refer as FCC KDB 789033 D02 clause II A.1.F " Antenna-port Conducted versus Radiated Testing"
- * Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
- * Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

9.3. Test Setup Layout



The test is the final test result, It includes antenna /cable loss factor & FSL factor.

The EIRP calculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP Formula :

$$EIRP(dBm) = PR(dBm) + LP(FSL \text{ factor})$$

where;

PR(dBm) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)

PR Formula :

$$PR(dBm) = P \text{ Meas}(dBm) - GR(dBi) + LC(dB) - G_{AMP}(dB)$$

where;

P Meas(dBm) : Power measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

G_{AMP}(dB): value of external amplification (if used), in dB.

LP(FSL factor) Formula :



$$LP(\text{dB}) = 20 \log F + 20 \log D - 27.54$$

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

For Example:

Test mode 802.11AX HE20 5955MHz EIRP measurement

PR Formula :

$$PR(\text{dBm}) = -6.87 - 11.6 + 8.62 - 35.02 = -44.87$$

LP(FSL factor) Formula :

$$LP(\text{dB}) = 20 \log(5955) + 20 \log(3) - 27.54 = 57.5$$

EIRP Formula :

$$EIRP(\text{dBm}) = -44.87 + 57.5 = 12.63$$



9.4. Test Result and Data

U-NII-5

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	7.25	1	5955	-44.87	57.50	12.63	18.32	24.00
11ax HE20	NSS1-MCS0	8.00	45	6175	-46.19	57.82	11.63	14.55	24.00
11ax HE20	NSS1-MCS0	8.25	93	6415	-44.80	58.15	13.35	21.63	24.00
11ax HE40	NSS1-MCS0	13.00	3	5965	-42.06	57.51	15.45	35.08	24.00
11ax HE40	NSS1-MCS0	12.25	43	6165	-43.27	57.80	14.53	28.38	24.00
11ax HE40	NSS1-MCS0	10.50	91	6405	-44.63	58.13	13.50	22.39	24.00
11ax HE80	NSS1-MCS0	15.50	7	5985	-41.32	57.54	16.22	41.88	24.00
11ax HE80	NSS1-MCS0	15.50	39	6145	-41.17	57.77	16.60	45.71	24.00
11ax HE80	NSS1-MCS0	15.50	87	6385	-41.79	58.11	16.32	42.85	24.00
11ax HE160	NSS1-MCS0	17.50	15	6025	-41.03	57.60	16.57	45.39	24.00
11ax HE160	NSS1-MCS0	17.50	47	6185	-41.48	57.83	16.35	43.15	24.00
11ax HE160	NSS1-MCS0	17.50	79	6345	-41.75	58.05	16.30	42.66	24.00

U-NII-6

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	8.25	97	6435	-46.82	58.17	11.35	13.65	24.00
11ax HE20	NSS1-MCS0	6.75	105	6475	-46.79	58.23	11.44	13.93	24.00
11ax HE20	NSS1-MCS0	6.25	113	6515	-47.37	58.28	10.91	12.33	24.00
11ax HE40	NSS1-MCS0	11.00	99	6445	-46.96	58.19	11.23	13.27	24.00
11ax HE40	NSS1-MCS0	10.25	107	6485	-47.25	58.24	10.99	12.56	24.00
11ax HE80	NSS1-MCS0	15.00	103	6465	-42.37	58.21	15.84	38.37	24.00



U-NII-7

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	7.00	117	6535	-50.80	58.31	7.51	5.64	24.00
11ax HE20	NSS1-MCS0	7.00	149	6695	-50.19	58.52	8.33	6.81	24.00
11ax HE20	NSS1-MCS0	9.75	181	6855	-48.54	58.72	10.18	10.42	24.00
11ax HE40	NSS1-MCS0	13.25	123	6565	-45.06	58.35	13.29	21.33	24.00
11ax HE40	NSS1-MCS0	11.00	147	6685	-47.78	58.50	10.72	11.80	24.00
11ax HE40	NSS1-MCS0	13.00	179	6845	-45.98	58.71	12.73	18.75	24.00
11ax HE80	NSS1-MCS0	14.50	135	6625	-43.30	58.43	15.13	32.58	24.00
11ax HE80	NSS1-MCS0	14.50	167	6785	-43.53	58.63	15.10	32.36	24.00
11ax HE160	NSS1-MCS0	14.50	143	6665	-43.75	58.48	14.73	29.72	24.00

U-NII-8

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	8.00	209	6995	-48.21	58.90	10.69	11.72	24.00
11ax HE20	NSS1-MCS0	6.50	233	7115	-49.86	59.05	9.19	8.30	24.00
11ax HE40	NSS1-MCS0	14.50	203	6965	-44.07	58.86	14.79	30.13	24.00
11ax HE40	NSS1-MCS0	10.00	227	7085	-49.00	59.01	10.01	10.02	24.00
11ax HE80	NSS1-MCS0	15.50	199	6945	-42.56	58.84	16.28	42.46	24.00
11ax HE80	NSS1-MCS0	15.50	215	7025	-43.05	58.94	15.89	38.82	24.00
11ax HE160	NSS1-MCS0	14.00	207	6985	-44.55	58.89	14.34	27.16	24.00



Measured equivalent isotropically radiated power Straddle Channel (Band U-NII 6 & U-NII 7) RF Output Power(dBm)									
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
115	9	11ax HE40	NSS1-MCS0	6525	-44.45	58.29	13.84	24.21	24.00
119	10	11ax HE80	NSS1-MCS0	6545	-45.71	58.32	12.61	18.24	24.00
111	15	11ax HE160	NSS1-MCS0	6505	-42.63	58.27	15.64	36.64	24.00

Measured equivalent isotropically radiated power Straddle Channel (Band U-NII 7 & U-NII 8) RF Output Power(dBm)									
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
185	5.75	11ax HE20	NSS1-MCS0	6875	-48.14	58.75	10.61	11.51	24.00
187	9	11ax HE40	NSS1-MCS0	6885	-45.06	58.76	13.70	23.44	24.00
183	11.75	11ax HE80	NSS1-MCS0	6865	-44.46	58.74	14.28	26.79	24.00
175	14.5	11ax HE160	NSS1-MCS0	6825	-43.14	58.68	15.54	35.81	24.00



10. Peak Power Spectral Density (E.I.R.P.)

10.1. Test Limit

Frequency Band		Limit	
<input checked="" type="checkbox"/>	5.925~6.425GHz		
	Operating Mode		
	<input type="checkbox"/>	For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	<input type="checkbox"/>	For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	<input type="checkbox"/>	For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	<input type="checkbox"/>	For client device control of a standard power access point:	e.i.r.p PSD < 17 dBm/MHz.
<input checked="" type="checkbox"/>	For client device control of an indoor access point:	e.i.r.p PSD < -1 dBm/MHz.	
<input checked="" type="checkbox"/>	6.425-6.525 GHz		
	Operating Mode		
	<input type="checkbox"/>	For indoor access point	e.i.r.p PSD < 5 dBm/MHz.
<input checked="" type="checkbox"/>	For client device control of an indoor access point :	e.i.r.p PSD < -1 dBm/MHz.	
<input checked="" type="checkbox"/>	6.525~6.875 GHz		
	Operating Mode		
	<input type="checkbox"/>	For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	<input type="checkbox"/>	For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	<input type="checkbox"/>	For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	<input type="checkbox"/>	For client device control of a standard power access point:	e.i.r.p PSD < 17 dBm/MHz.
<input checked="" type="checkbox"/>	For client device control of an indoor access point:	e.i.r.p PSD < -1 dBm/MHz.	
<input checked="" type="checkbox"/>	6.875-7.125 GHz		
	Operating Mode		
	<input type="checkbox"/>	For indoor access point	e.i.r.p PSD < 5 dBm/MHz.
<input checked="" type="checkbox"/>	For client device control of an indoor access point :	e.i.r.p PSD < -1 dBm/MHz.	



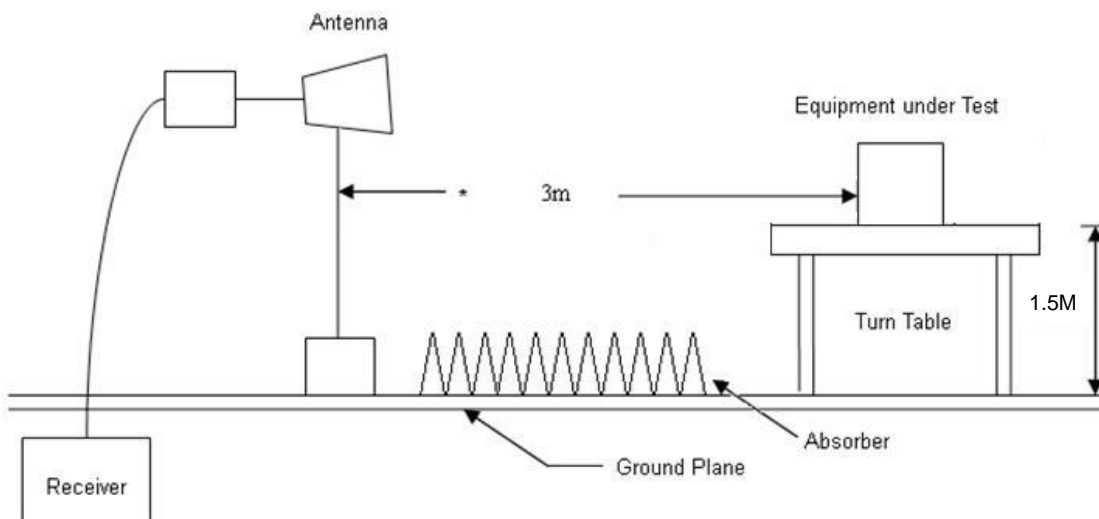
10.2. Test Procedure

According to FCC KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:

For radiated measurement:

- * Refer as FCC KDB 789033 D02 clause II A.1.F ” Antenna-port Conducted versus Radiated Testing”
- * Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
- * Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

10.3. Test Setup Layout



The test is the final test result, It includes antenna /cable loss factor & FSL factor.

The EIRP calculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP PSD Formula :

$$\text{EIRP PSD(dBm)} = \text{PR(dBm)} + \text{LP(FSL factor)}$$

where;

PR(dBm) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)



PR Formula :

$$PR(\text{dBm}) = P \text{ Meas}(\text{dBm}) - GR(\text{dBi}) + LC(\text{dB}) - G_{AMP}(\text{dB})$$

where;

P Meas(dBm) : PSD measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

G_{AMP}(dB): value of external amplification (if used), in dB.

LP(FSL factor) Formula :

$$LP(\text{dB}) = 20 \log F + 20 \log D - 27.54$$

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

For Example:

Test mode 802.11AX HE20 5955MHz EIRP PSD measurement

PR Formula :

$$PR(\text{dBm}) = -20.6 - 11.6 + 8.62 - 35.02 = -58.6$$

LP(FSL factor) Formula :

$$LP(\text{dB}) = 20 \log(5955) + 20 \log(3) - 27.54 = 57.5$$

EIRP PSD Formula :

$$EIRP \text{ PSD}(\text{dBm}) = -58.63 + 57.5 = -1.10$$

**10.4. Test Result and Data**

U-NII-5

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11ax HE20	NSS1-MCS0	1	5955	-20.60	-58.60	57.50	-1.10	-1.00
11ax HE20	NSS1-MCS0	45	6175	-21.68	-59.01	57.82	-1.19	-1.00
11ax HE20	NSS1-MCS0	93	6415	-21.42	-59.25	58.15	-1.10	-1.00
11ax HE40	NSS1-MCS0	3	5965	-20.63	-58.63	57.51	-1.12	-1.00
11ax HE40	NSS1-MCS0	43	6165	-21.63	-58.96	57.80	-1.16	-1.00
11ax HE40	NSS1-MCS0	91	6405	-21.32	-59.15	58.13	-1.02	-1.00
11ax HE80	NSS1-MCS0	*7	5985	-22.69	-60.69	57.54	-3.15	-1.00
11ax HE80	NSS1-MCS0	*39	6145	-21.06	-58.89	57.77	-1.12	-1.00
11ax HE80	NSS1-MCS0	87	6385	-21.41	-59.24	58.11	-1.13	-1.00
11ax HE160	NSS1-MCS0	*15	6025	-29.63	-66.96	57.60	-9.36	-1.00
11ax HE160	NSS1-MCS0	*47	6185	-22.34	-59.67	57.83	-1.84	-1.00
11ax HE160	NSS1-MCS0	*79	6345	-21.37	-59.20	58.05	-1.15	-1.00

Note: Channels marked with "" have reduced power due to limited SAR requirements. Only settings close to the RF limit value are shown here.

U-NII-6

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11ax HE20	NSS1-MCS0	97	6435	-21.46	-59.29	58.17	-1.12	-1.00
11ax HE20	NSS1-MCS0	105	6475	-21.36	-59.39	58.23	-1.16	-1.00
11ax HE20	NSS1-MCS0	113	6515	-21.66	-59.32	58.28	-1.04	-1.00
11ax HE40	NSS1-MCS0	99	6445	-21.46	-59.29	58.19	-1.10	-1.00
11ax HE40	NSS1-MCS0	107	6485	-21.30	-59.33	58.24	-1.09	-1.00
11ax HE80	NSS1-MCS0	*103	6465	-21.32	-59.35	58.21	-1.14	-1.00

Note: Channels marked with "" have reduced power due to limited SAR requirements. Only settings close to the RF limit value are shown here.



U-NII-7

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11ax HE20	NSS1-MCS0	117	6535	-21.81	-59.47	58.31	-1.16	-1.00
11ax HE20	NSS1-MCS0	149	6695	-22.50	-59.76	58.52	-1.24	-1.00
11ax HE20	NSS1-MCS0	181	6855	-22.84	-60.10	58.72	-1.38	-1.00
11ax HE40	NSS1-MCS0	123	6565	-21.88	-59.44	58.35	-1.09	-1.00
11ax HE40	NSS1-MCS0	147	6685	-22.35	-59.61	58.50	-1.11	-1.00
11ax HE40	NSS1-MCS0	179	6845	-22.87	-60.03	58.71	-1.32	-1.00
11ax HE80	NSS1-MCS0	*135	6625	-22.28	-59.64	58.43	-1.21	-1.00
11ax HE80	NSS1-MCS0	*167	6785	-22.85	-60.01	58.63	-1.38	-1.00
11ax HE160	NSS1-MCS0	*143	6665	-22.47	-59.73	58.48	-1.25	-1.00

Note: Channels marked with "" have reduced power due to limited SAR requirements. Only settings close to the RF limit value are shown here.

U-NII-8

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11ax HE20	NSS1-MCS0	209	6995	-22.68	-59.94	58.90	-1.04	-1.00
11ax HE20	NSS1-MCS0	233	7115	-23.41	-60.37	59.05	-1.32	-1.00
11ax HE40	NSS1-MCS0	203	6965	-22.86	-60.12	58.86	-1.26	-1.00
11ax HE40	NSS1-MCS0	227	7085	-23.21	-60.27	59.01	-1.26	-1.00
11ax HE80	NSS1-MCS0	*199	6945	-22.70	-59.96	58.84	-1.12	-1.00
11ax HE80	NSS1-MCS0	*215	7025	-22.81	-59.97	58.94	-1.03	-1.00
11ax HE160	NSS1-MCS0	207	6985	-29.97	-67.23	58.89	-8.34	-1.00

Note: Channels marked with "" have reduced power due to limited SAR requirements. Only settings close to the RF limit value are shown here.



Maximum radiated EIRP PSD (Within 6425-6525MHz band)

Channel	Modulation Type	Data Rate	Frequency (MHz)	Measured E.I.R.P. PSD	PR (dBm/MHz)	Lp (dB)	Total Corr'd EIRP PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)	Pass/Fail
115	11ax HE40	NSS1-MCS0	6525	-21.37	-59.52	58.29	-1.23	-1.00	PASS
119	11ax HE80	NSS1-MCS0	6545	-21.43	-59.58	58.32	-1.26	-1.00	PASS
111	11ax HE160	NSS1-MCS0	6505	-21.36	-59.51	58.27	-1.24	-1.00	PASS

Maximum radiated EIRP PSD (Within 6525-6875MHz band)

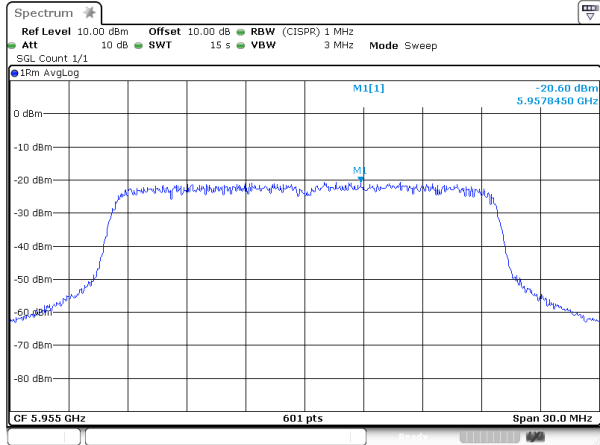
Channel	Modulation Type	Data Rate	Frequency (MHz)	Measured E.I.R.P. PSD	PR (dBm/MHz)	Lp (dB)	Total Corr'd EIRP PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)	Pass/Fail
185	11ax HE20	NSS1-MCS0	6875	-22.29	-59.94	58.75	-1.19	-1.00	PASS
187	11ax HE40	NSS1-MCS0	6885	-22.45	-60.10	58.76	-1.34	-1.00	PASS
183	11ax HE80	NSS1-MCS0	6865	-22.47	-60.12	58.74	-1.38	-1.00	PASS
175	11ax HE160	NSS1-MCS0	6825	-22.21	-59.86	58.68	-1.18	-1.00	PASS



U-NII-5

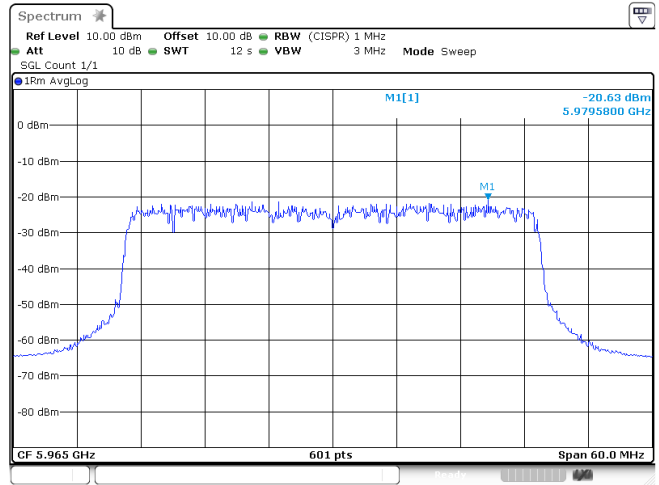
Modulation Type: 802.11ax HE20 (7.3Mbps)

CH01

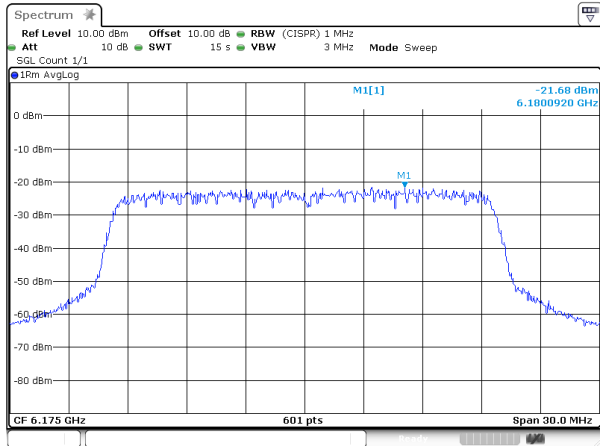


Modulation Type: 802.11ax HE40 (14.6Mbps)

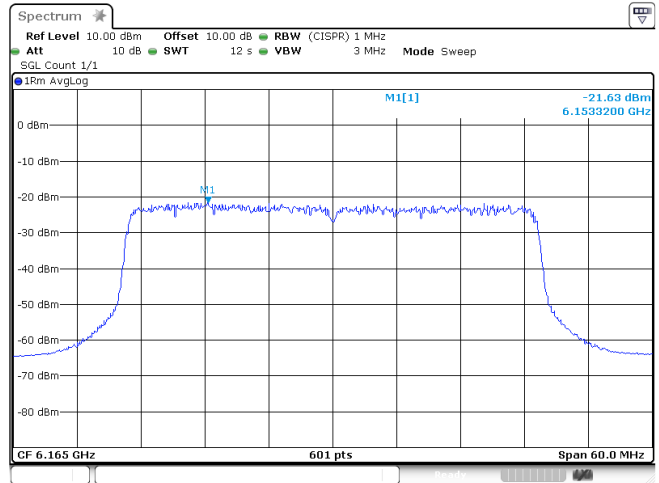
CH03



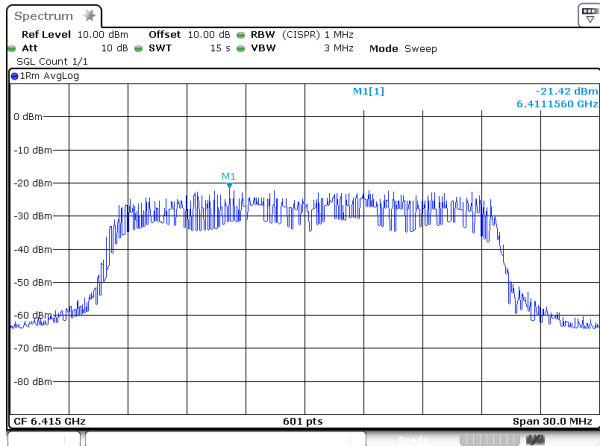
CH45



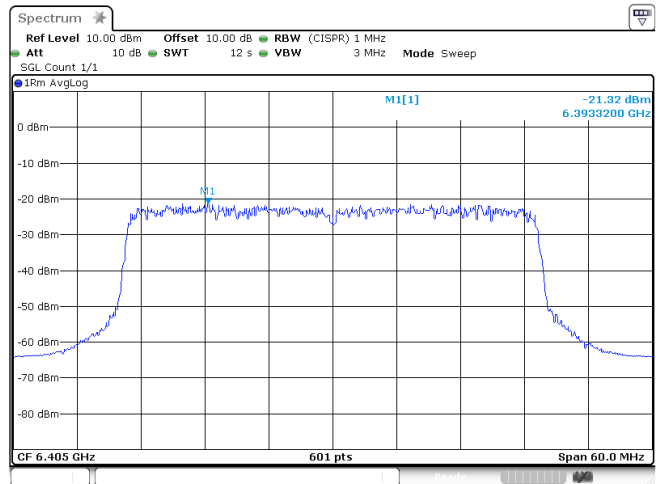
CH43



CH93

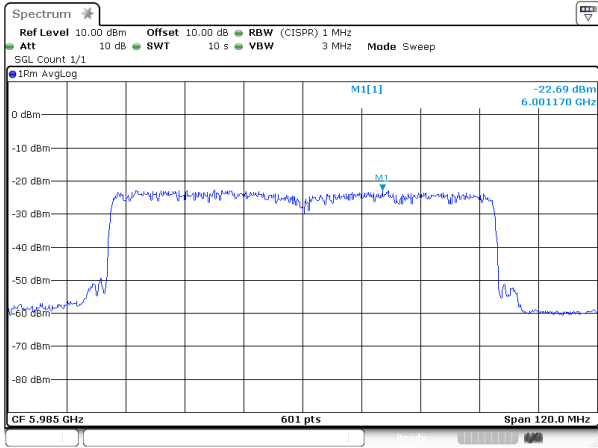


CH91

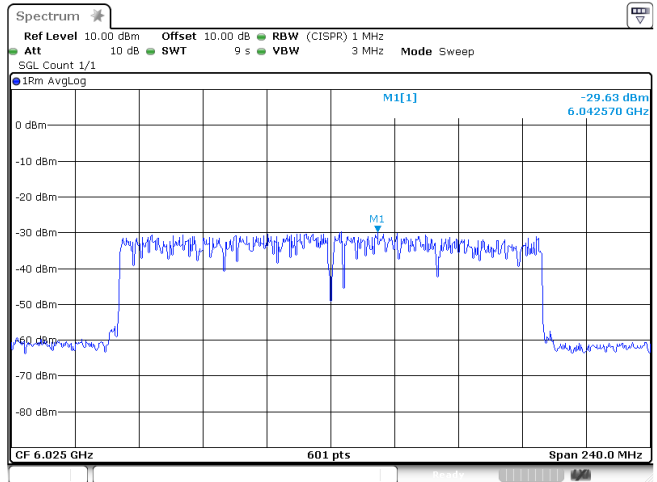




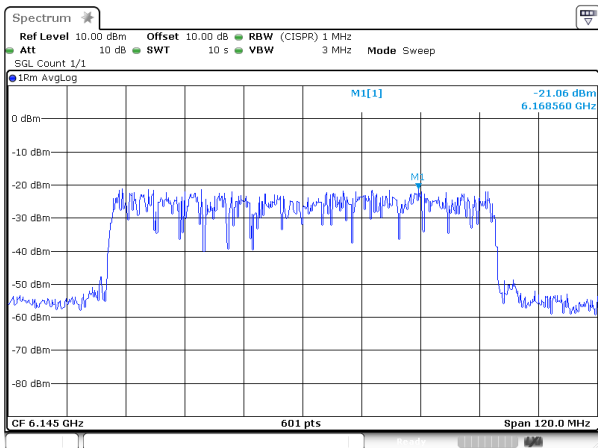
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH07



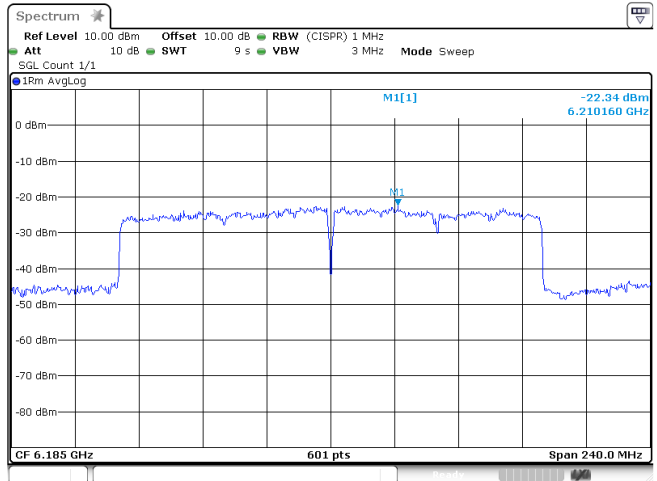
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH15



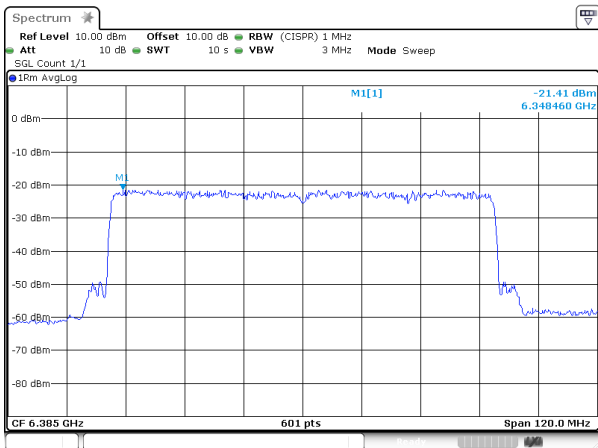
CH39



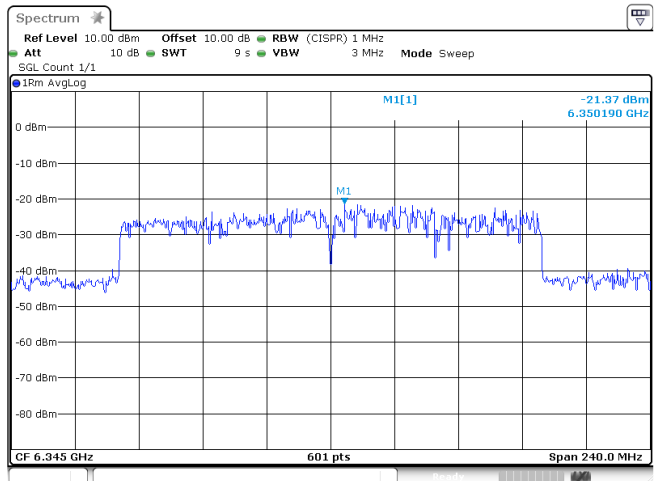
CH47



CH87



CH79

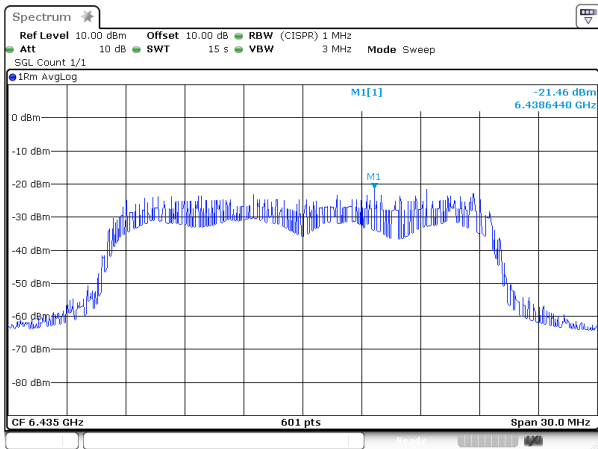




U-NII-6

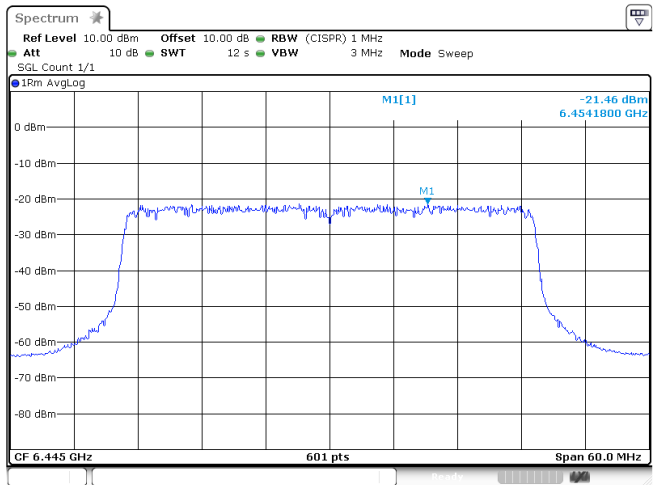
Modulation Type: 802.11ax HE20 (7.3Mbps)

CH97

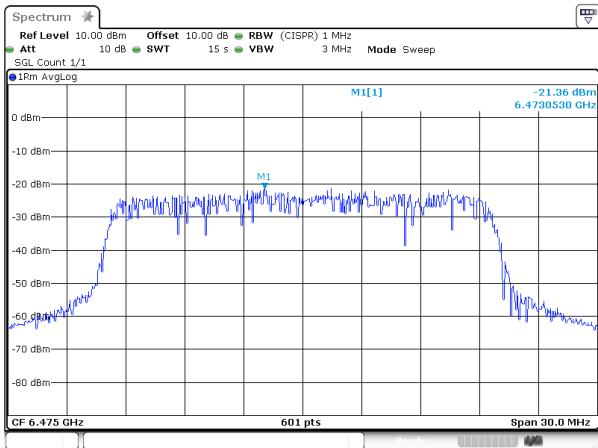


Modulation Type: 802.11ax HE40 (14.6Mbps)

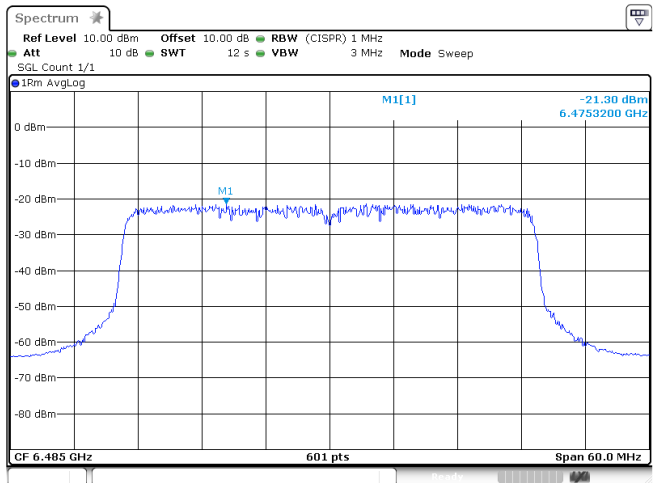
CH99



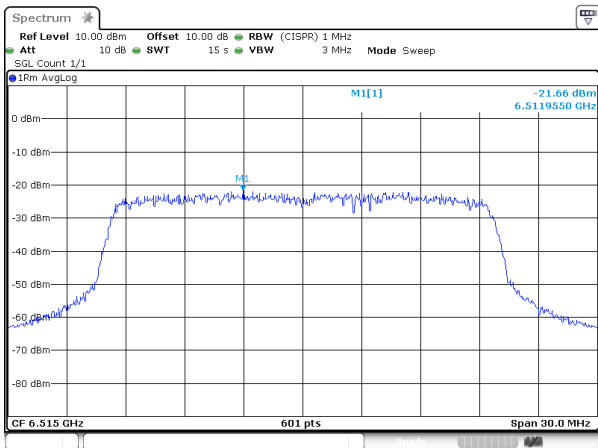
CH105



CH107

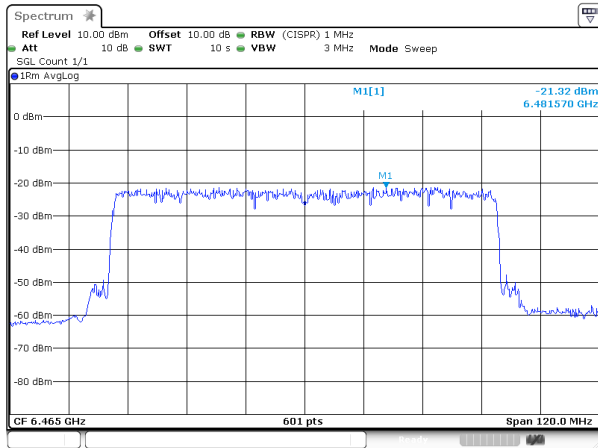


CH113





Modulation Type: 802.11ax HE80 (30.6Mbps)
CH103

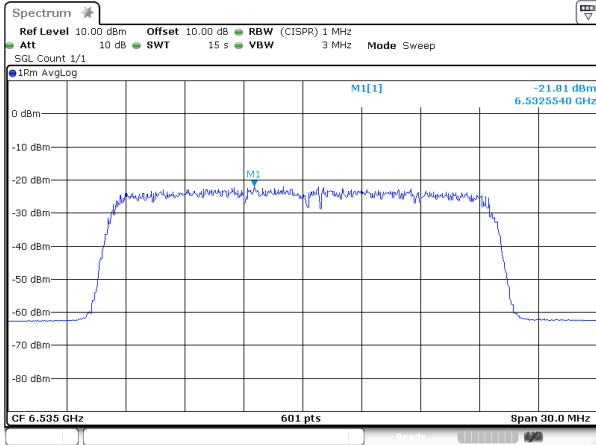




U-NII-7

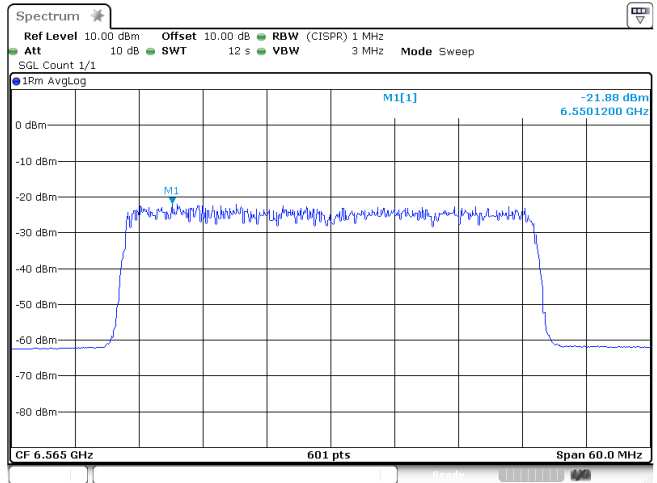
Modulation Type: 802.11ax HE20 (7.3Mbps)

CH117

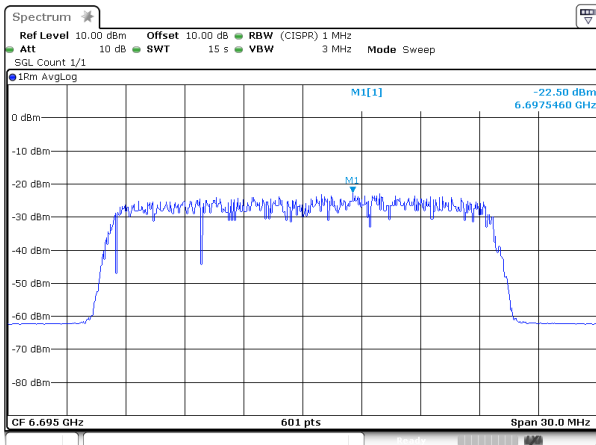


Modulation Type: 802.11ax HE40 (14.6Mbps)

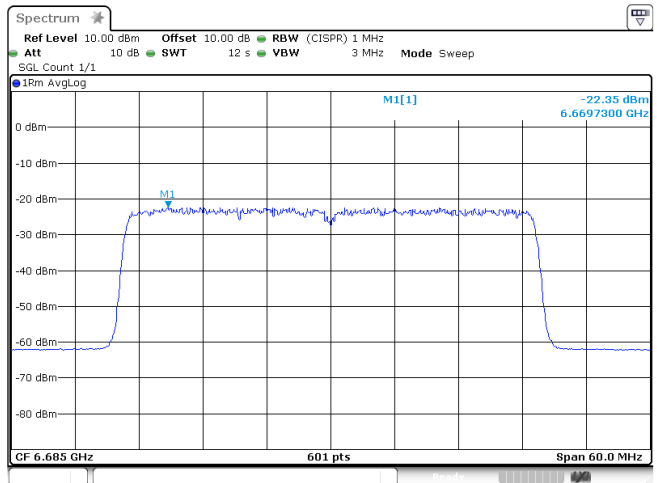
CH123



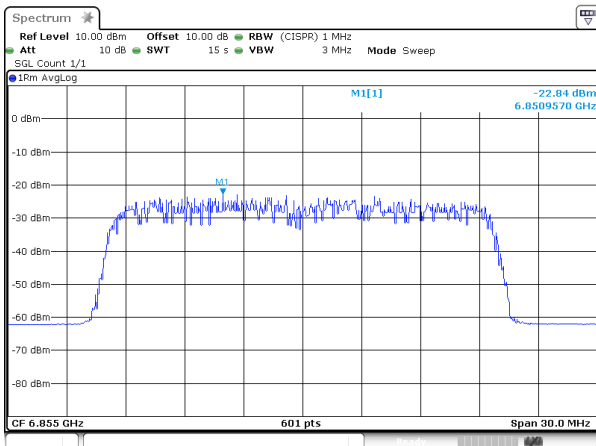
CH149



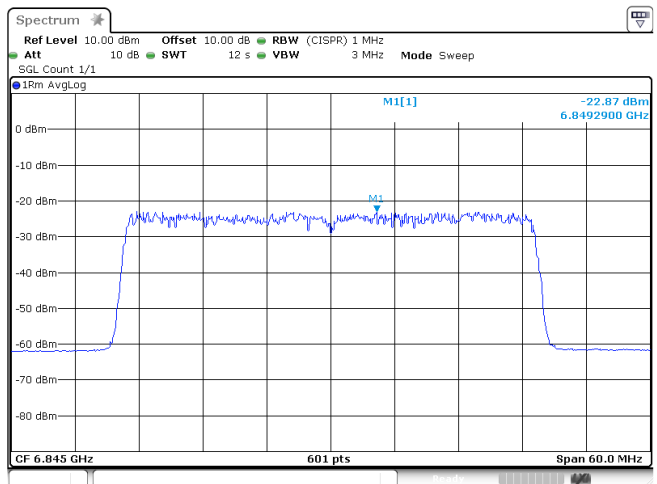
CH147



CH181

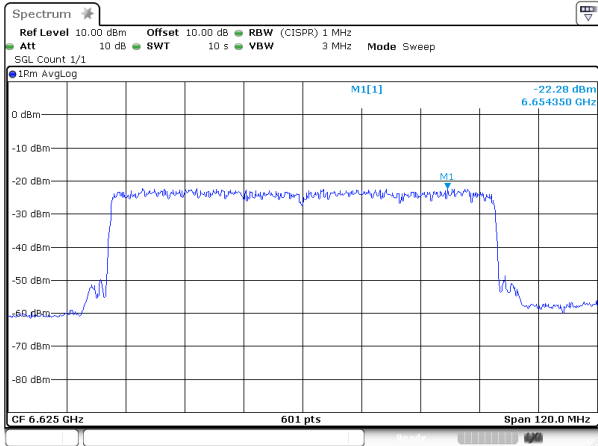


CH179

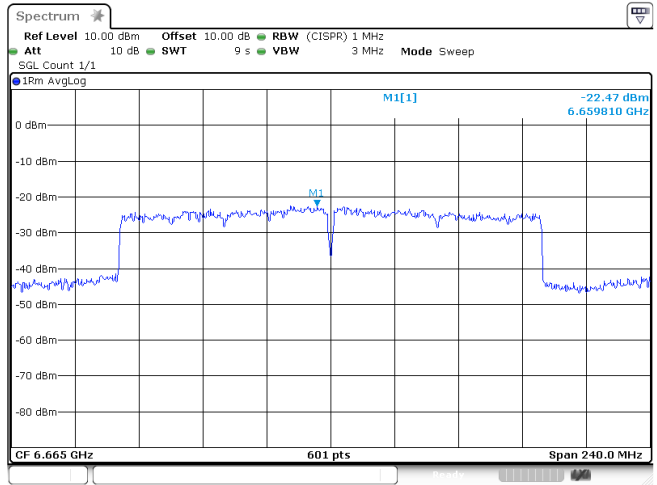




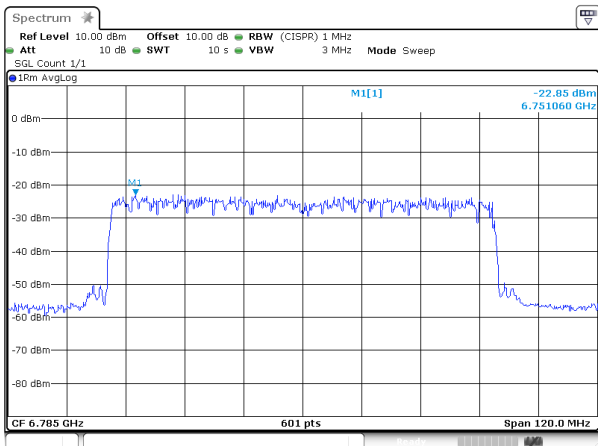
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH135



Modulation Type: 802.11ax HE160 (61.3Mbps)
CH143



CH167

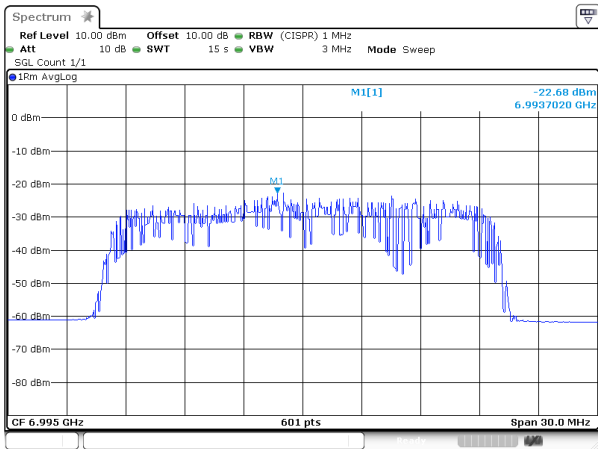




U-NII-8

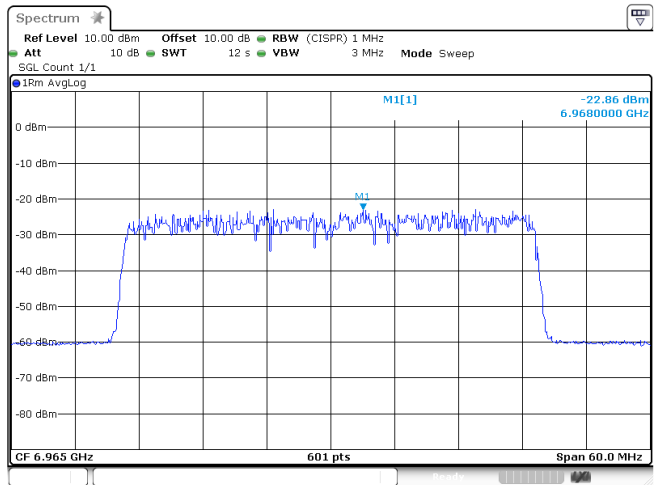
Modulation Type: 802.11ax HE20 (7.3Mbps)

CH209

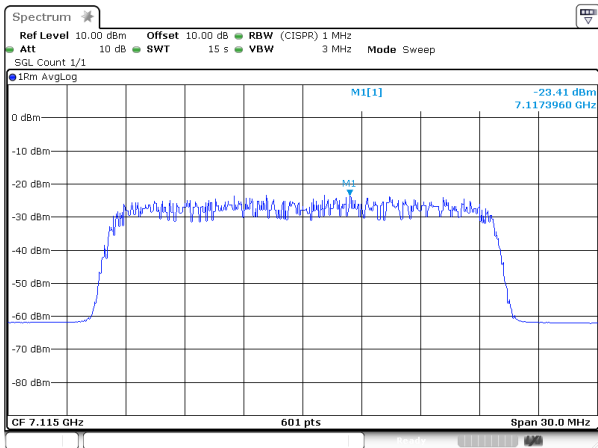


Modulation Type: 802.11ax HE40 (14.6Mbps)

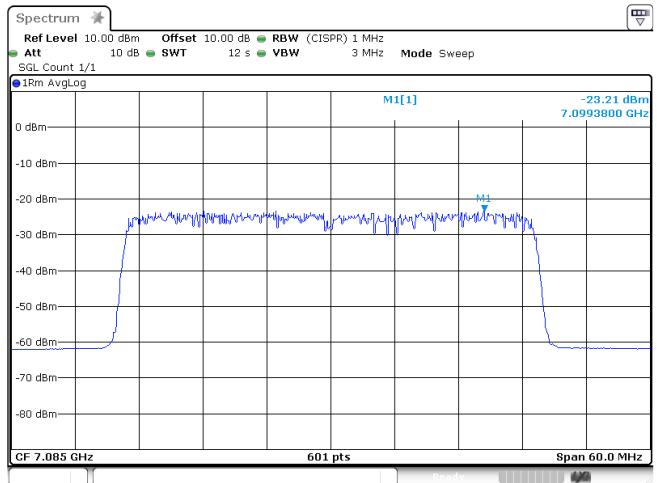
CH203



CH233

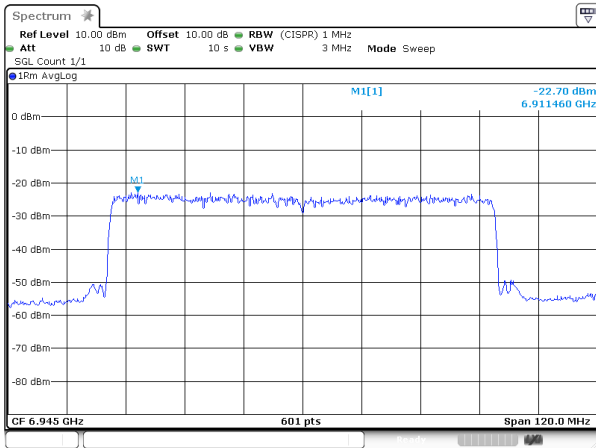


CH227

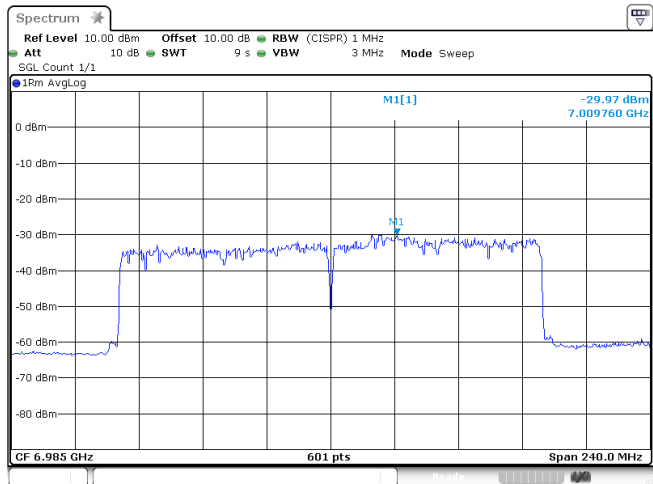




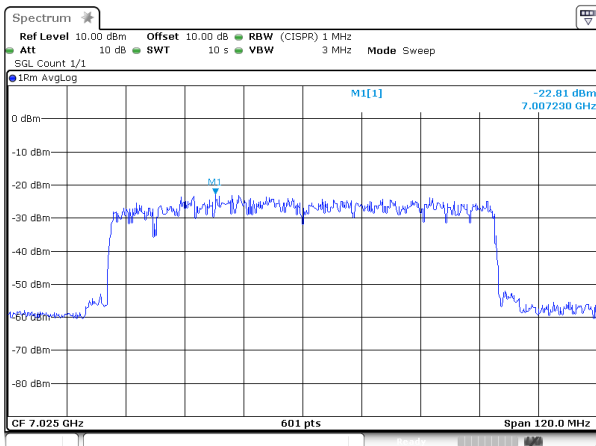
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH199



Modulation Type: 802.11ax HE160 (61.3Mbps)
CH207

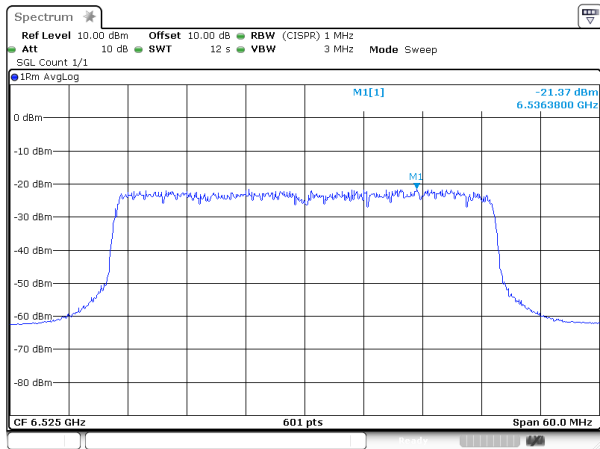


CH215

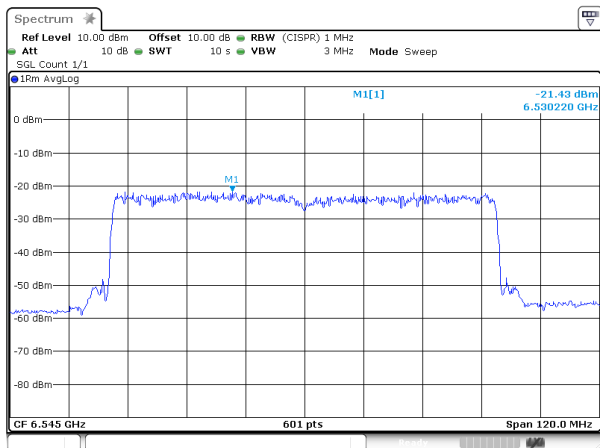




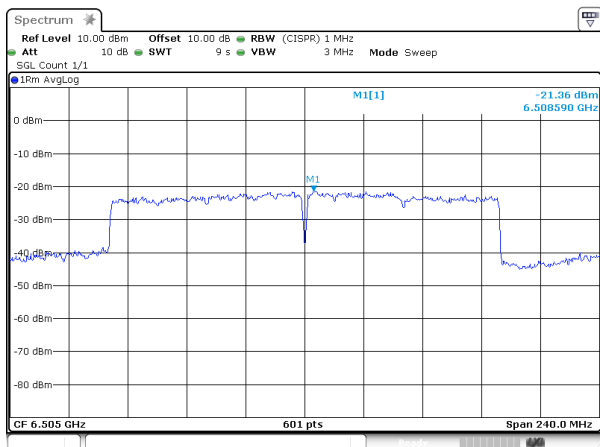
Straddle Channel (Band U-NII 6 & U-NII 7)
Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115



Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119

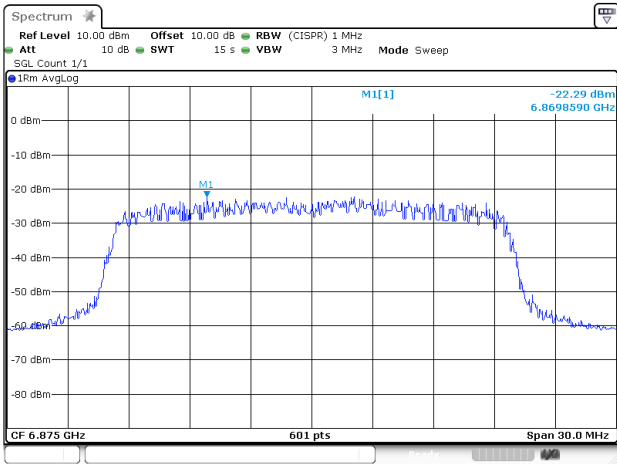


Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111

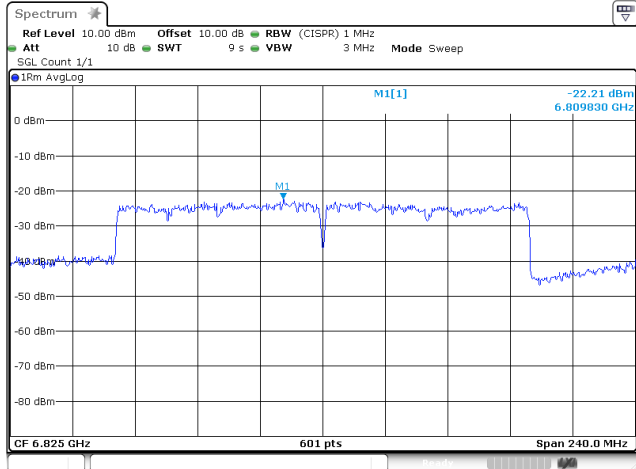




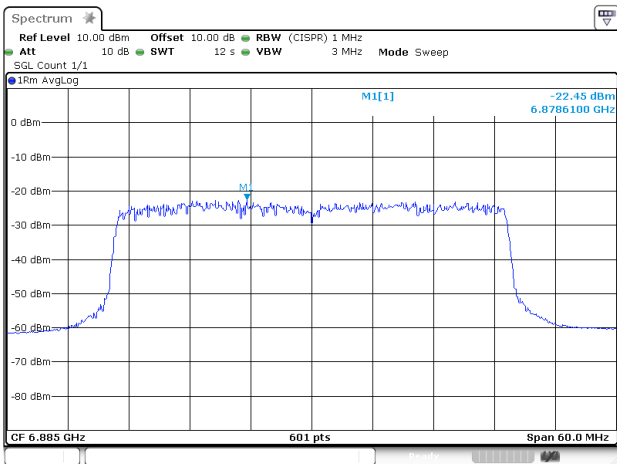
Straddle Channel (Band U-NII 7 & U-NII 8)
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH185



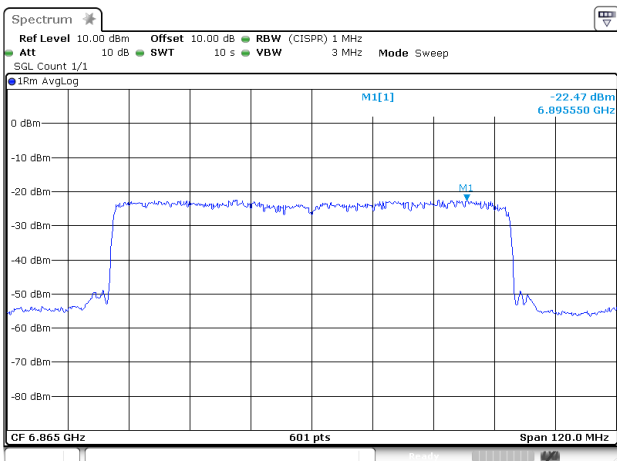
Modulation Type: 802.11ax HE160 (61.3Mbps)
CH175



Modulation Type: 802.11ax HE40 (14.6Mbps)
CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)
CH183





11. Contention Based Protocol

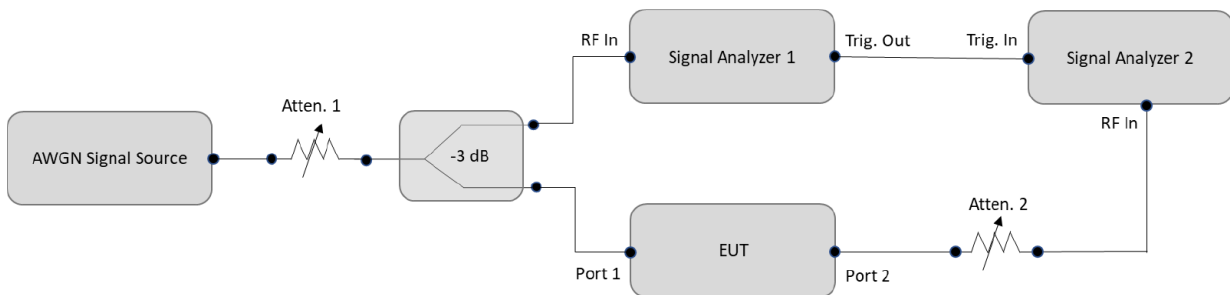
11.1. Test Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

11.2. Test Procedure

Reference to KDB 987594 D02 U-NII 6 GHz EMC Measurement v01

11.3. Test Setup Layout





11.4. Test Result and Data

Device Type :		at the antenna connector			Threshold Level (dBm)
UNII Band	U-NII 5	Antenna Gain :	3.2	dBi	-58.8
	U-NII 6	Antenna Gain :	3.3	dBi	-58.7
	U-NII 7	Antenna Gain :	3.4	dBi	-58.6
	U-NII 8	Antenna Gain :	3.5	dBi	-58.5

U-NII-5 Band

Contention Based Protocol Measurement											
Operation Band	Operation Mode	Channel Bandwidth (MHz)	The Incumbent Signal (AWGN) Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 5	802.11ax	20MHz	-85.8	33	6115	6115	10	9	90.00%	90%	Pass
		160MHz	-90.8	47	6185	6110	10	10	100.00%	90%	Pass
			-85.8			6185	10	10	100.00%	90%	Pass
			-84.8			6260	10	10	100.00%	90%	Pass

Lowest Interference (AWGN) Level Check								
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status	Pass/Fail
U-NII 5	802.11ax	20MHz	33	6115	6115	-85.8	Ceased	Pass
						-86.8	Minimal	Pass
						-87.8	Normal	Pass
		160MHz	47	6185	6110	-90.8	Ceased	Pass
						-91.8	Minimal	Pass
						-92.8	Normal	Pass
						-85.8	Ceased	Pass
						-86.8	Minimal	Pass
						-87.8	Normal	Pass
		6260	47	6185	6185	-84.8	Ceased	Pass
						-85.8	Minimal	Pass
						-86.8	Normal	Pass



U-NII-6 Band

Contention Based Protocol Measurement											
Operation Band	Operation Mode	Channel Bandwidth (MHz)	The Incumbent Signal (AWGN) Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 6	802.11ax	20MHz	-85.7	97	6435	6435	10	10	100.00%	90%	Pass
		160MHz	-87.8	111	6505	6430	10	9	90.00%	90%	Pass
			-82.8			6505	10	10	100.00%	90%	Pass
			-80.8			6580	10	10	100.00%	90%	Pass

Lowest Interference (AWGN) Level Check								
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status	Pass/Fail
U-NII 6	802.11ax	20MHz	97	6435	6435	-85.7	Ceased	Pass
						-86.7	Minimal	Pass
						-87.7	Normal	Pass
		160M	111	6505	6430	-87.8	Ceased	Pass
						-88.8	Minimal	Pass
						-89.8	Normal	Pass
					6580	-82.8	Ceased	Pass
						-83.8	Minimal	Pass
						-84.8	Normal	Pass
						-80.8	Ceased	Pass
						-81.8	Minimal	Pass
						-82.8	Normal	Pass



U-NII-7 Band

Contention Based Protocol Measurement											
Operation Band	Operation Mode	Channel Bandwidth (MHz)	The Incumbent Signal (AWGN) Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 7	802.11ax	20MHz	-83.6	153	6715	6715	10	9	90.00%	90%	Pass
		160MHz	-81.6	143	6665	6590	10	9	90.00%	90%	Pass
			-83.6			6665	10	9	90.00%	90%	Pass
			-78.6			6740	10	9	90.00%	90%	Pass

Lowest Interference (AWGN) Level Check								
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status	Pass/Fail
U-NII 7	802.11ax	20MHz	153	6715	6715	-83.6	Ceased	Pass
						-84.6	Minimal	Pass
						-85.6	Normal	Pass
		160MHz	143	6665	6590	-81.6	Ceased	Pass
						-82.6	Minimal	Pass
						-83.6	Normal	Pass
					6665	-83.6	Ceased	Pass
						-84.6	Minimal	Pass
						-85.6	Normal	Pass
					6740	-78.6	Ceased	Pass
						-79.6	Minimal	Pass
						-80.6	Normal	Pass



U-NII-8 Band

Contention Based Protocol Measurement											
Operation Band	Operation Mode	Channel Bandwidth (MHz)	The Incumbent Signal (AWGN) Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 8	802.11ax	20MHz	-85.5	213	7015	7015	10	10	100.00%	90%	Pass
		160MHz	-82.5	207	6985	6910	10	10	100.00%	90%	Pass
			-85.5			6985	10	10	100.00%	90%	Pass
			-85.5			7060	10	10	100.00%	90%	Pass

Lowest Interference (AWGN) Level Check								
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status	Pass/Fail
U-NII 8	802.11ax	20MHz	213	7015	7015	-85.5	Ceased	Pass
						-86.5	Minimal	Pass
						-87.5	Normal	Pass
		160MHz	207	6985	6910	-82.5	Ceased	Pass
						-83.5	Minimal	Pass
						-84.5	Normal	Pass
					7060	-85.5	Ceased	Pass
						-86.5	Minimal	Pass
						-87.5	Normal	Pass



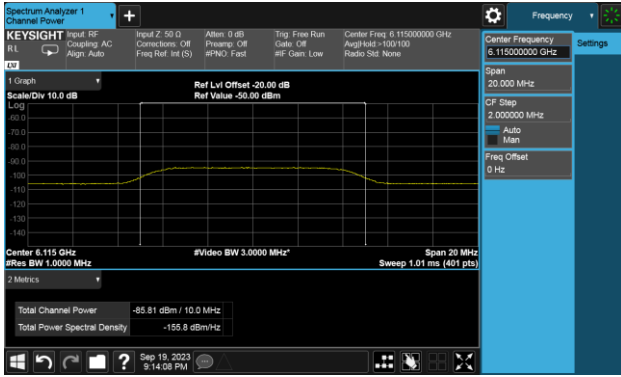
Contention Based Protocol Threshold Level Verify Plot on U-NII 5

Frequency (MHz): :CH 33 6115 MHz (20M)

Frequency (MHz): :CH 33 6115 MHz (20M)

Measured Detection level

Test result is pass due to no transmission occur

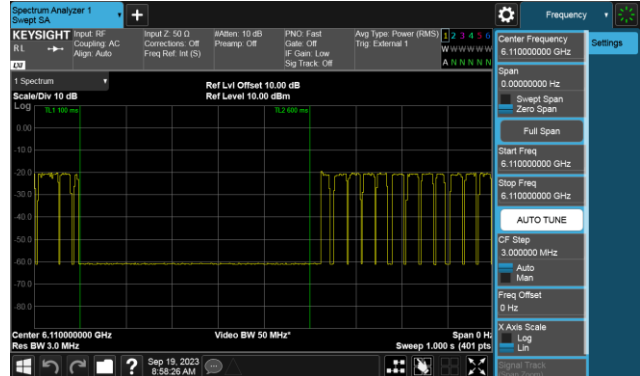


Frequency (MHz): CH 47 6110 MHz (160M)

Frequency (MHz): CH 47 6110 MHz (160M)

Measured Detection level

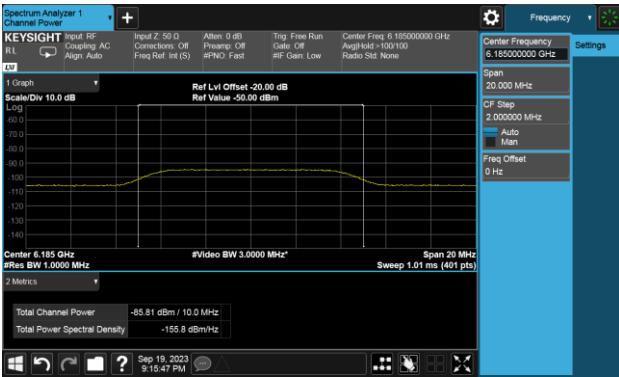
Test result is pass due to no transmission occur





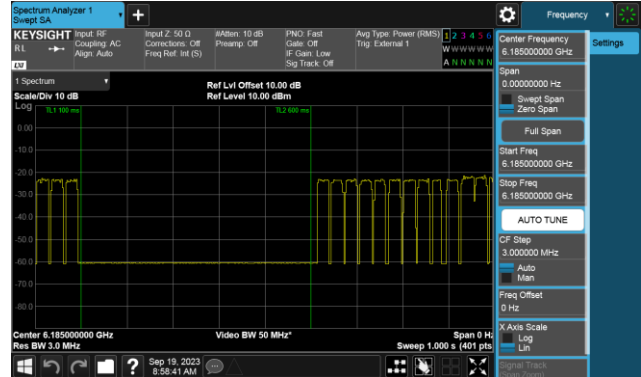
Frequency (MHz): :CH 47 6185 MHz (20M)

Measured Detection level



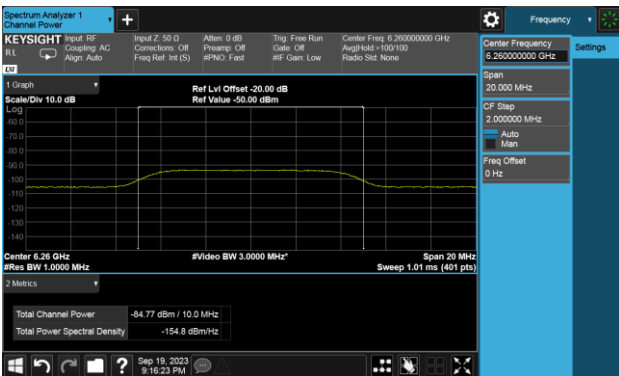
Frequency (MHz): :CH 47 6185 MHz (20M)

Test result is pass due to no transmission occur



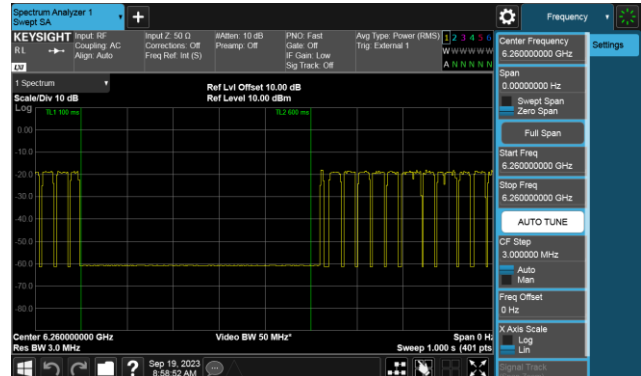
Frequency (MHz): CH 47 6260 MHz (160M)

Measured Detection level



Frequency (MHz): CH 47 6260 MHz (160M)

Test result is pass due to no transmission occur





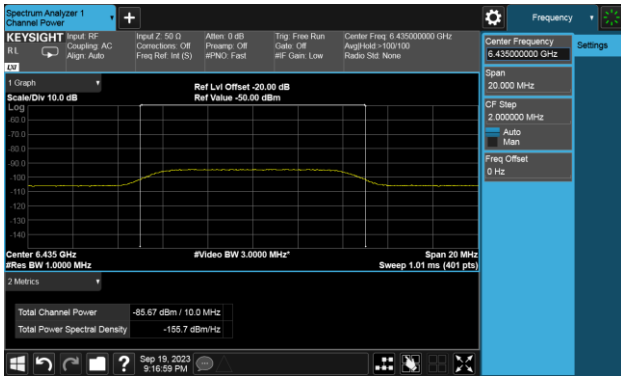
Contention Based Protocol Threshold Level Verify Plot on U-NII 6

Frequency (MHz): CH 97 6435 MHz (20M)

Frequency (MHz): CH 97 6435 MHz (20M)

Measured Detection level

Test result is pass due to no transmission occur

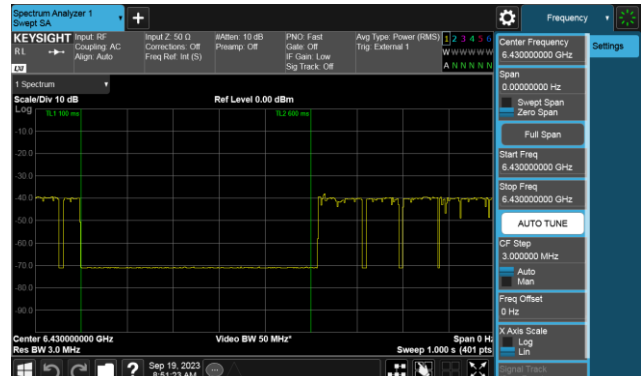
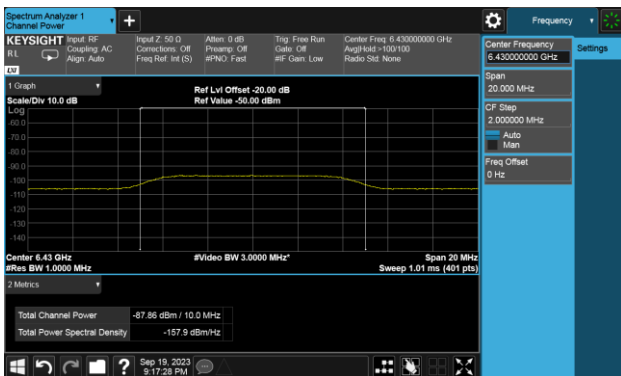


Frequency (MHz): CH 111 6430 MHz (160M)

Frequency (MHz): CH 111 6430 MHz (160M)

Measured Detection level

Test result is pass due to no transmission occur





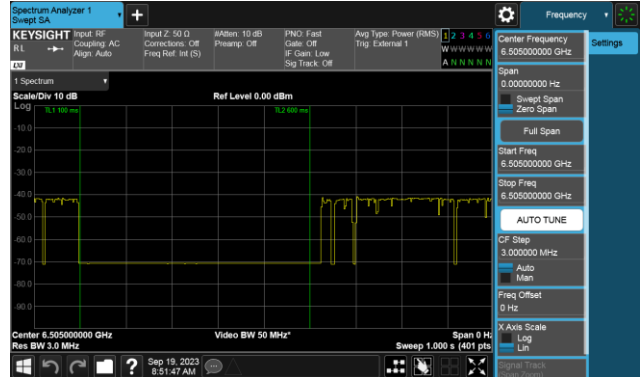
Frequency (MHz): CH 111 6505 MHz (160M)

Measured Detection level



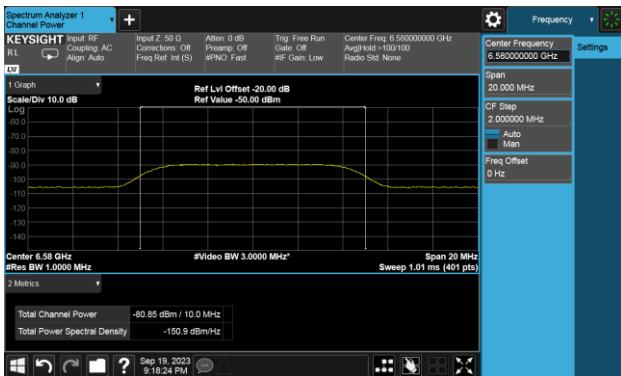
frequency (MHz): CH 111 6505 MHz (160M)

Test result is pass due to no transmission occur



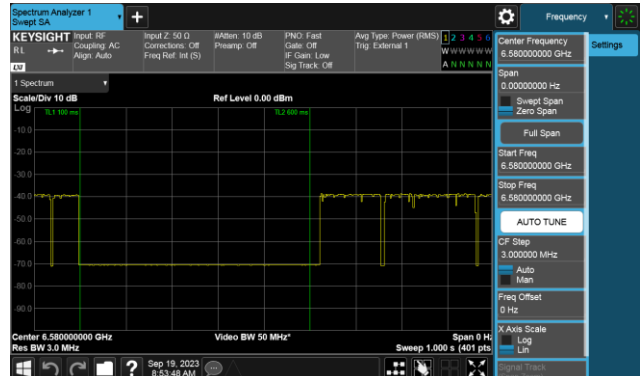
Frequency (MHz): CH 111 6580 MHz (160M)

Measured Detection level



frequency (MHz): CH 111 6580 MHz (160M)

Test result is pass due to no transmission occur





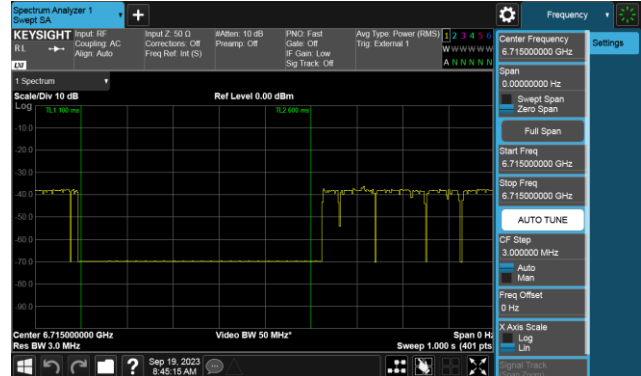
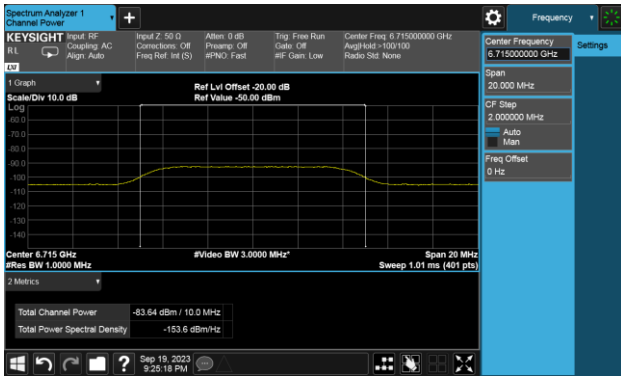
Contention Based Protocol Threshold Level Verify Plot on U-NII 7

Frequency (MHz): CH 153 6715 MHz (20M)

Frequency (MHz): CH 153 6715 MHz (20M)

Measured Detection level

Test result is pass due to no transmission occur

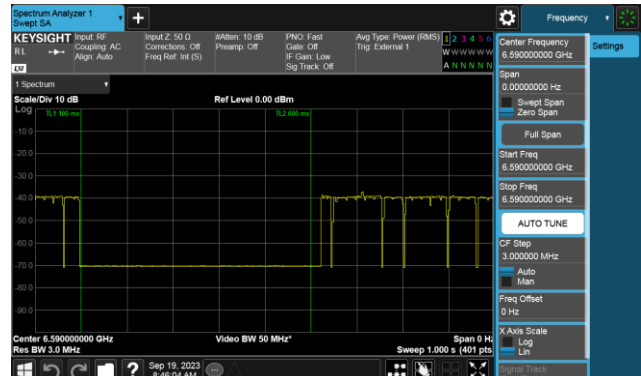


Frequency (MHz): CH 143 6590 MHz (160M)

Frequency (MHz): CH 143 6590 MHz (160M)

Measured Detection level

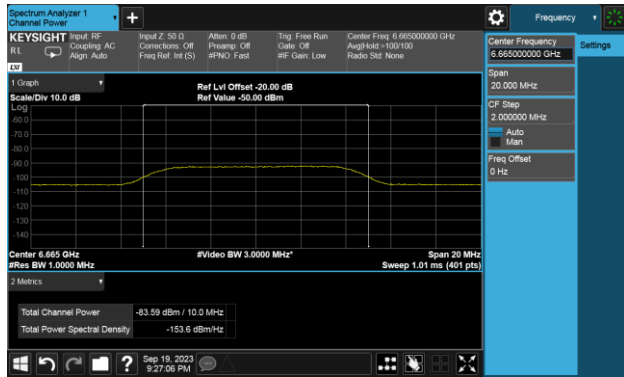
Test result is pass due to no transmission occur





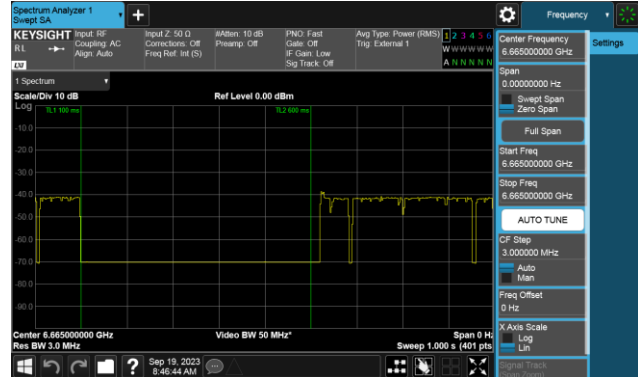
Frequency (MHz): CH 143 6665 MHz (160M)

Measured Detection level



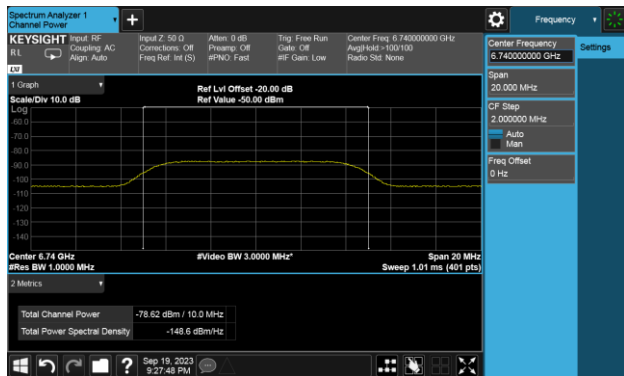
Frequency (MHz): CH 143 6665 MHz (160M)

Test result is pass due to no transmission occur



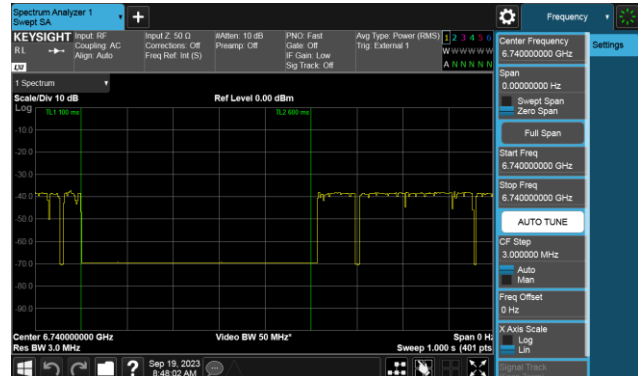
Frequency (MHz): CH 143 6740 MHz (160M)

Measured Detection level



Frequency (MHz): CH 143 6740 MHz (160M)

Test result is pass due to no transmission occur





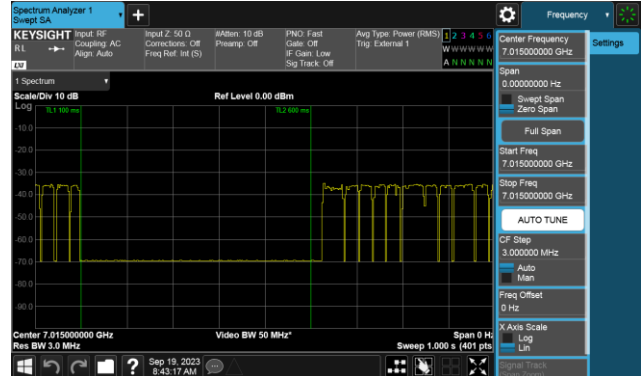
Contention Based Protocol Threshold Level Verify Plot on U-NII 8

Frequency (MHz): CH 213 7015 MHz (20M)

Frequency (MHz): CH 213 7015MHz (20M)

Measured Detection level

Test result is pass due to no transmission occur

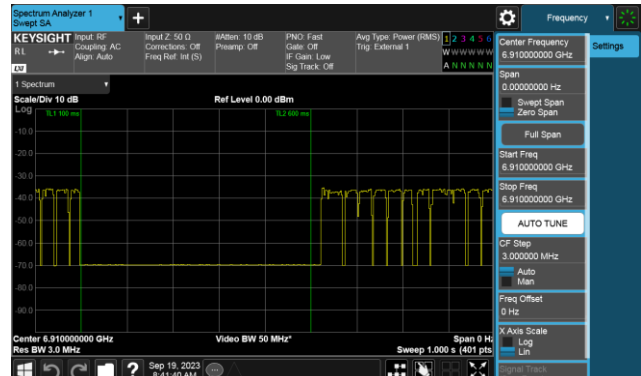
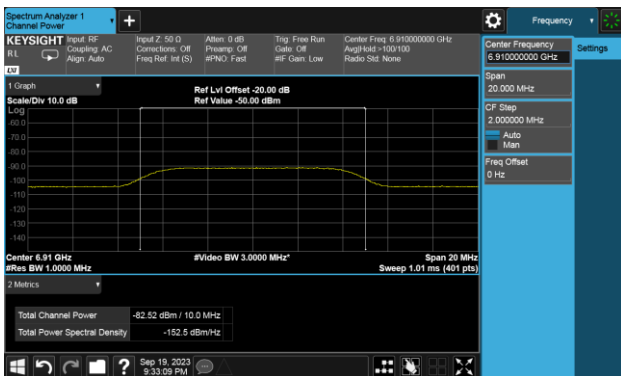


Frequency (MHz): CH 207 6910 MHz (160M)

Frequency (MHz): CH 207 6910MHz (160M)

Measured Detection level

Test result is pass due to no transmission occur





Frequency (MHz): CH 207 6985 MHz (160M)

Measured Detection level



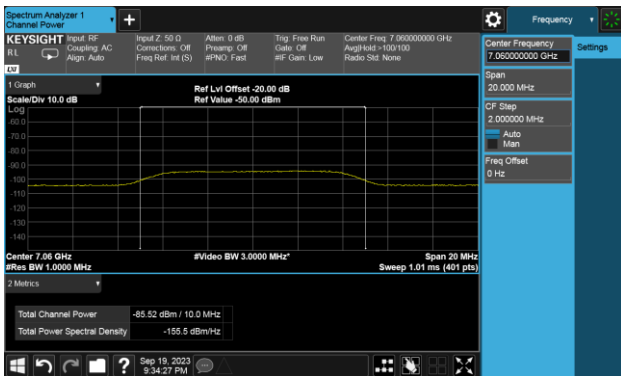
Frequency (MHz): CH 207 6985MHz (160M)

Test result is pass due to no transmission occur



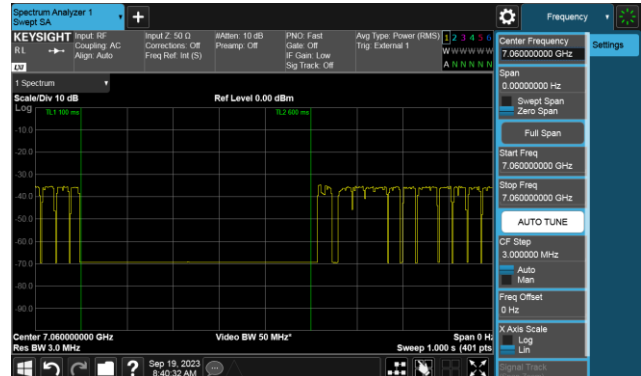
Frequency (MHz): CH 207 7060 MHz (160M)

Measured Detection level



Frequency (MHz): CH 207 7060MHz (160M)

Test result is pass due to no transmission occur



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