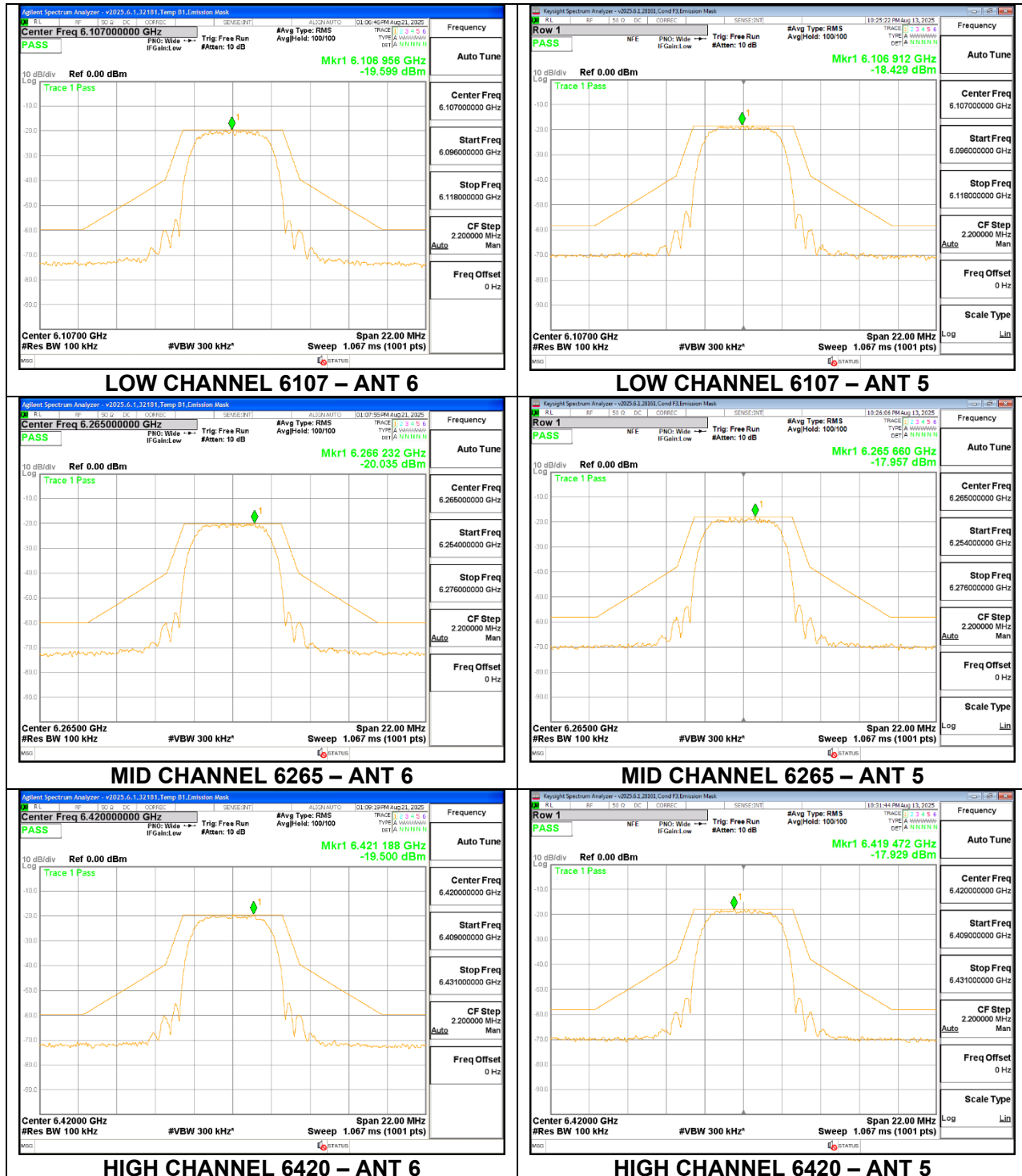
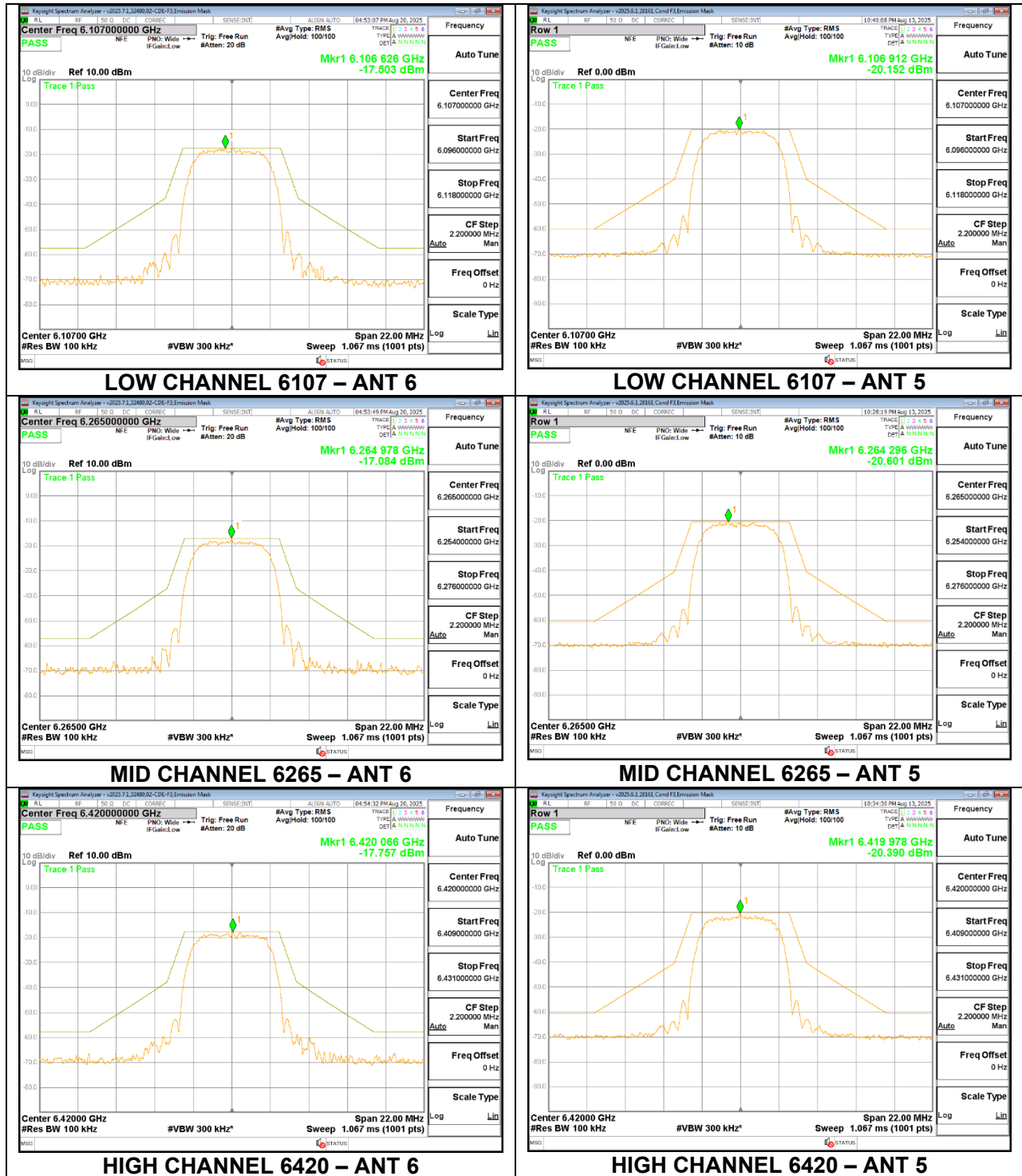
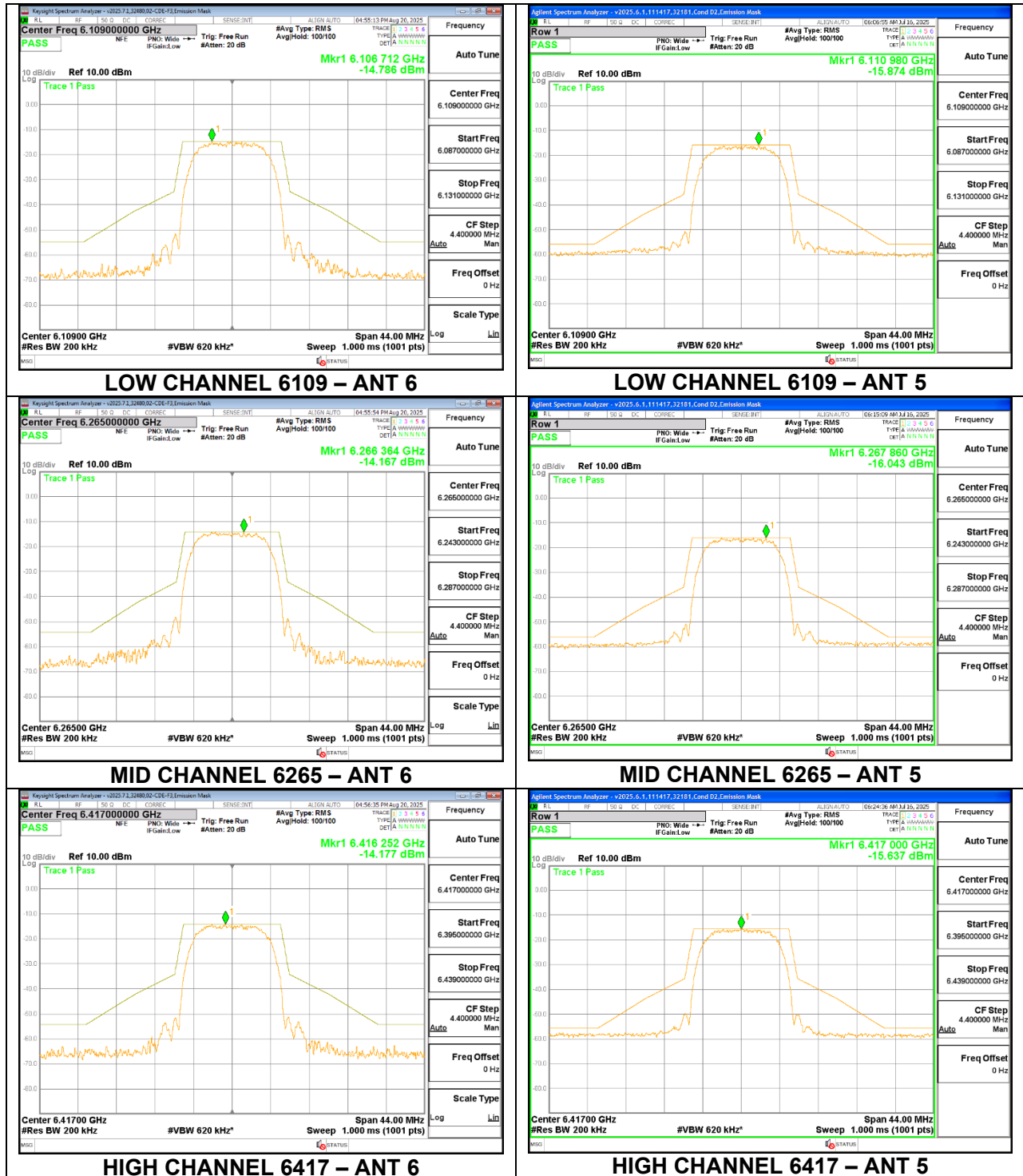


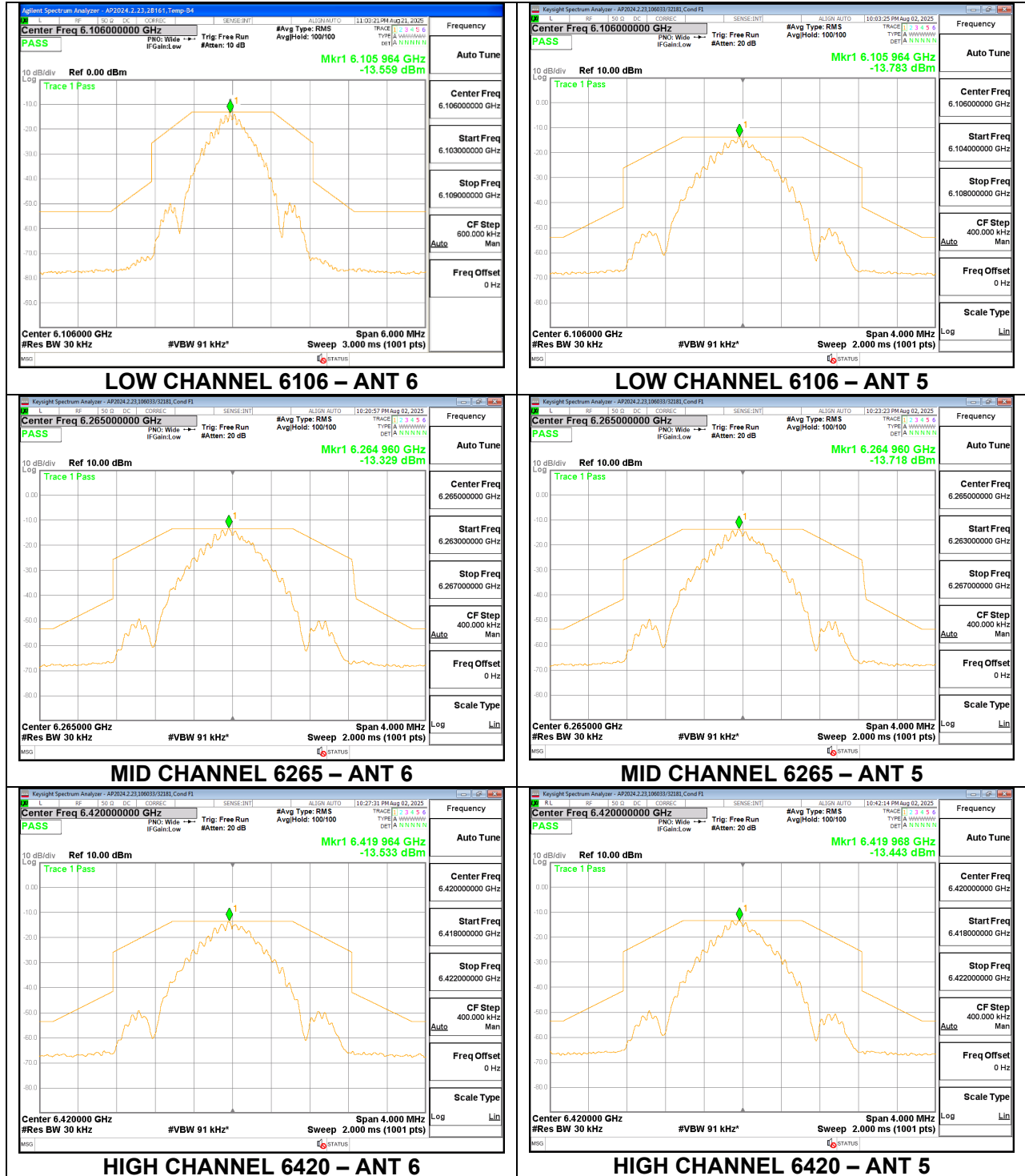
XHDRPM8

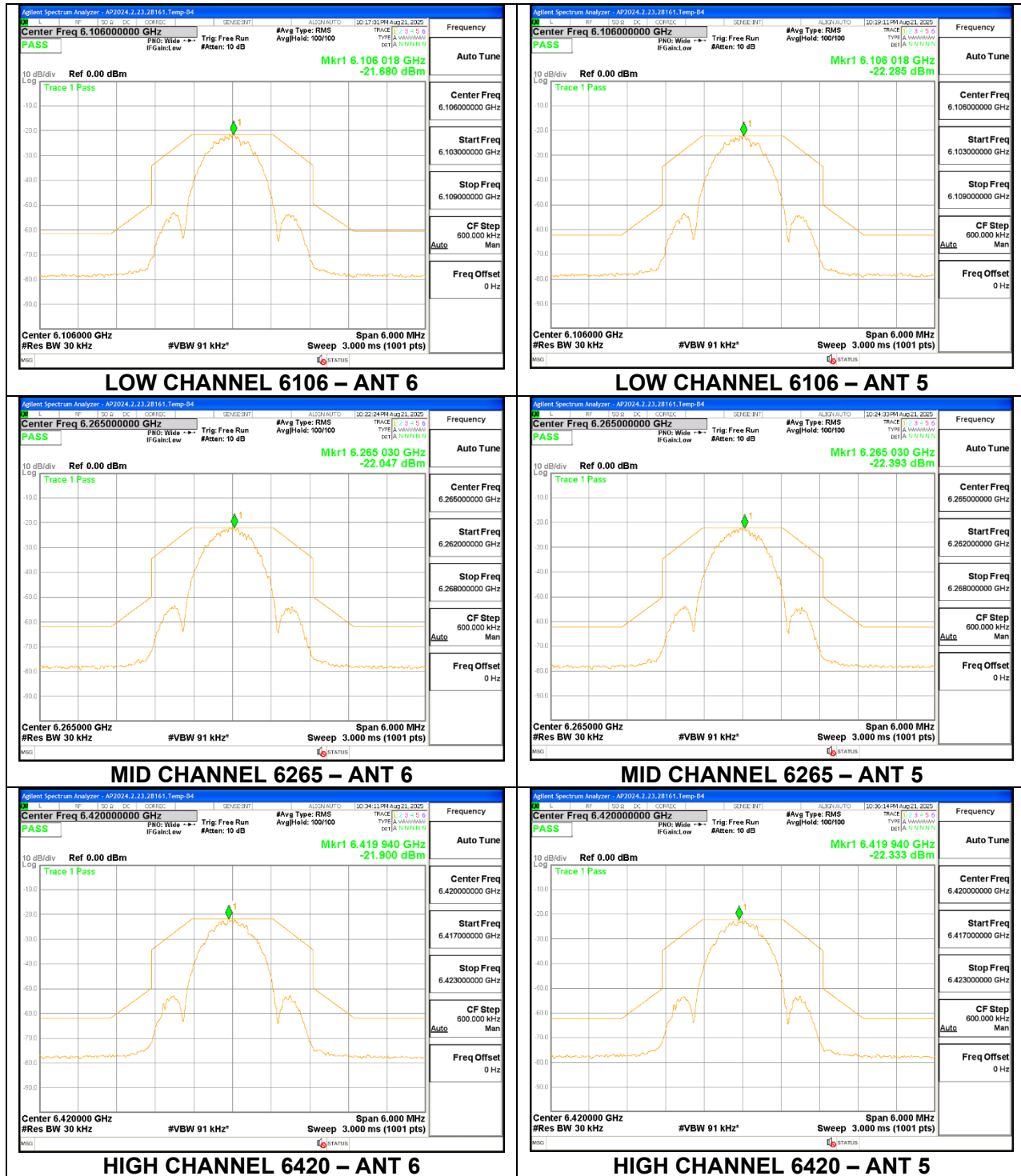
HDRPM12

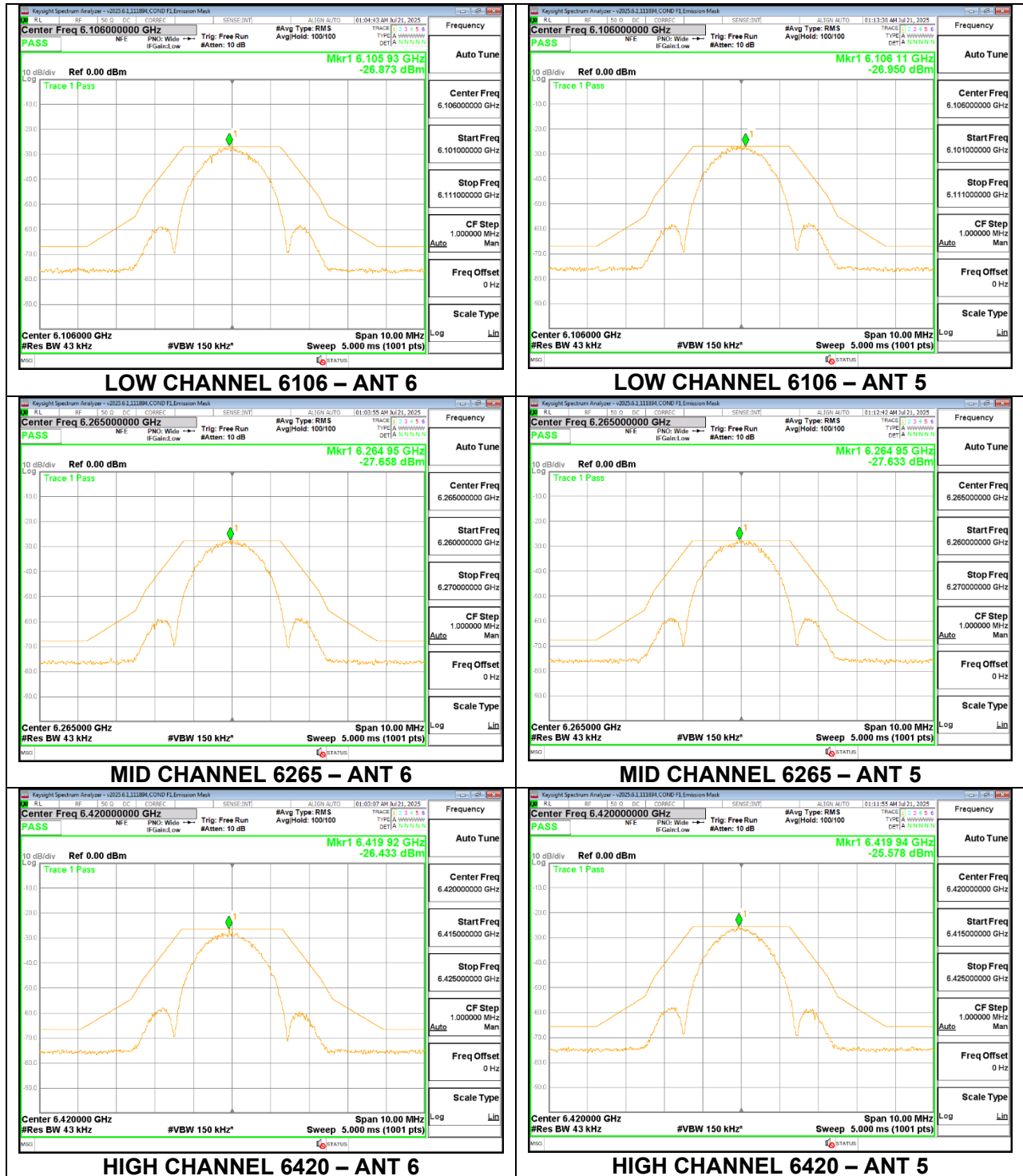
HDRPL8

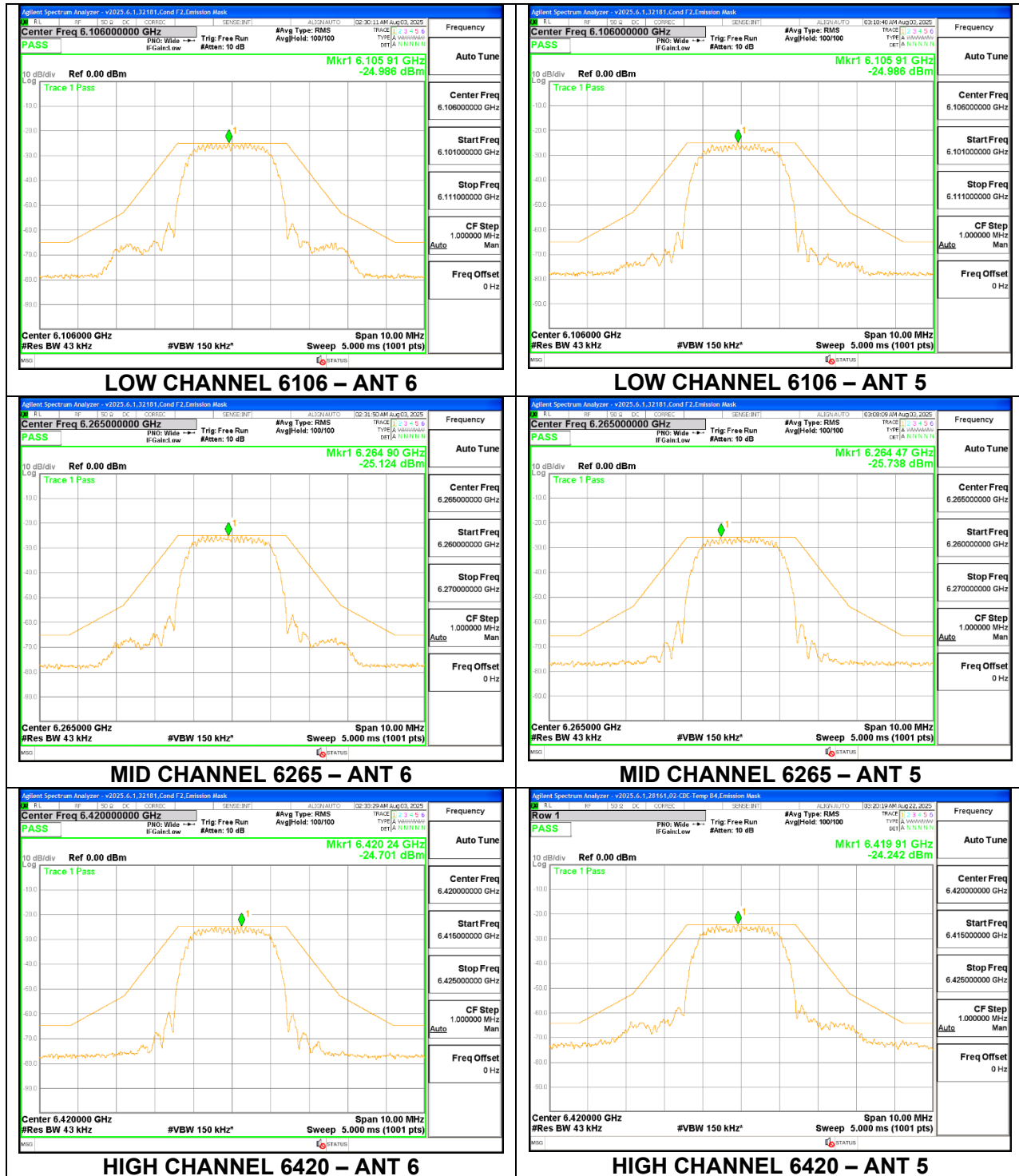
9.4.4. LOW POWER UNII-5 BAND MIMO TXBF MODE

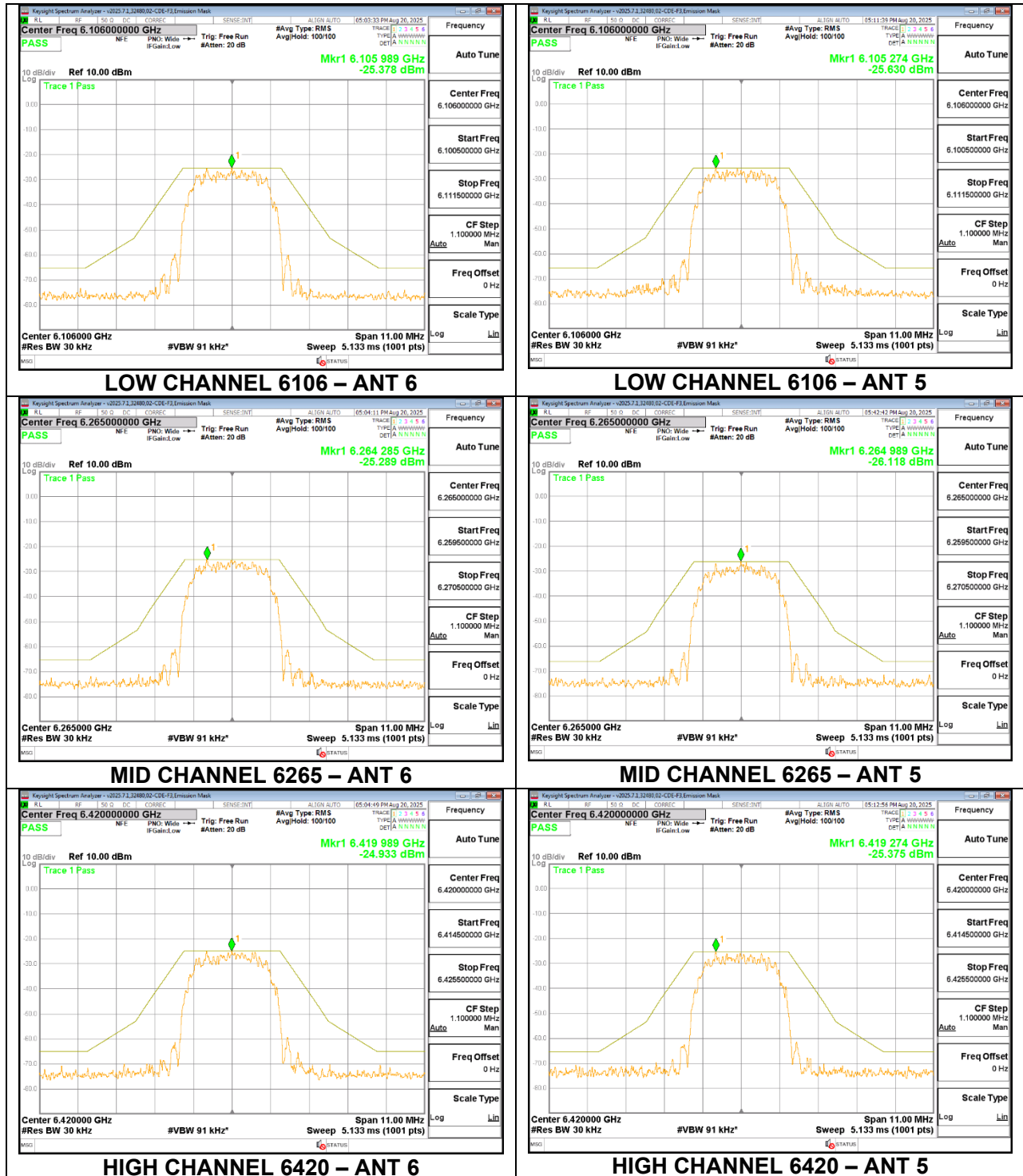
BDR

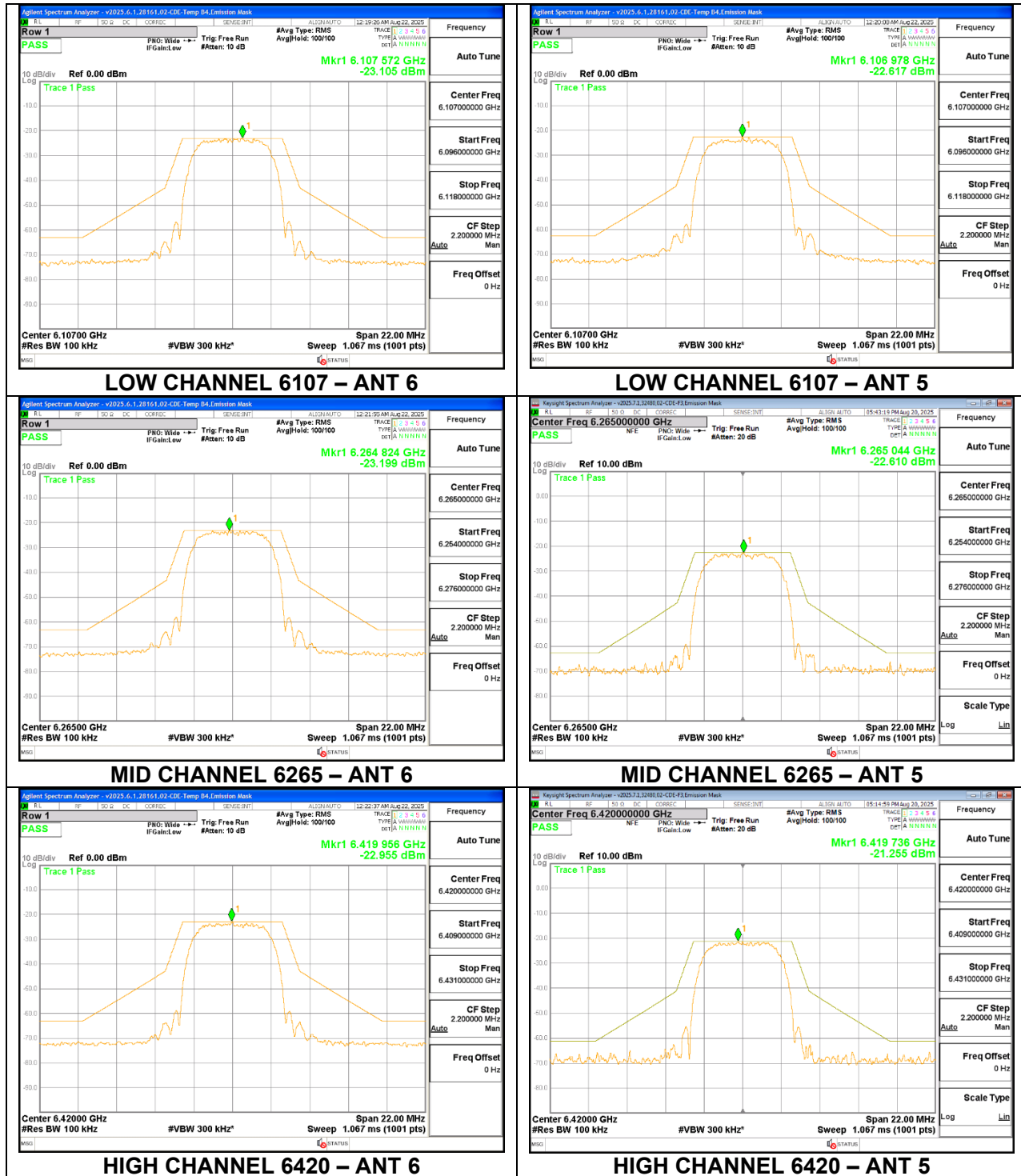


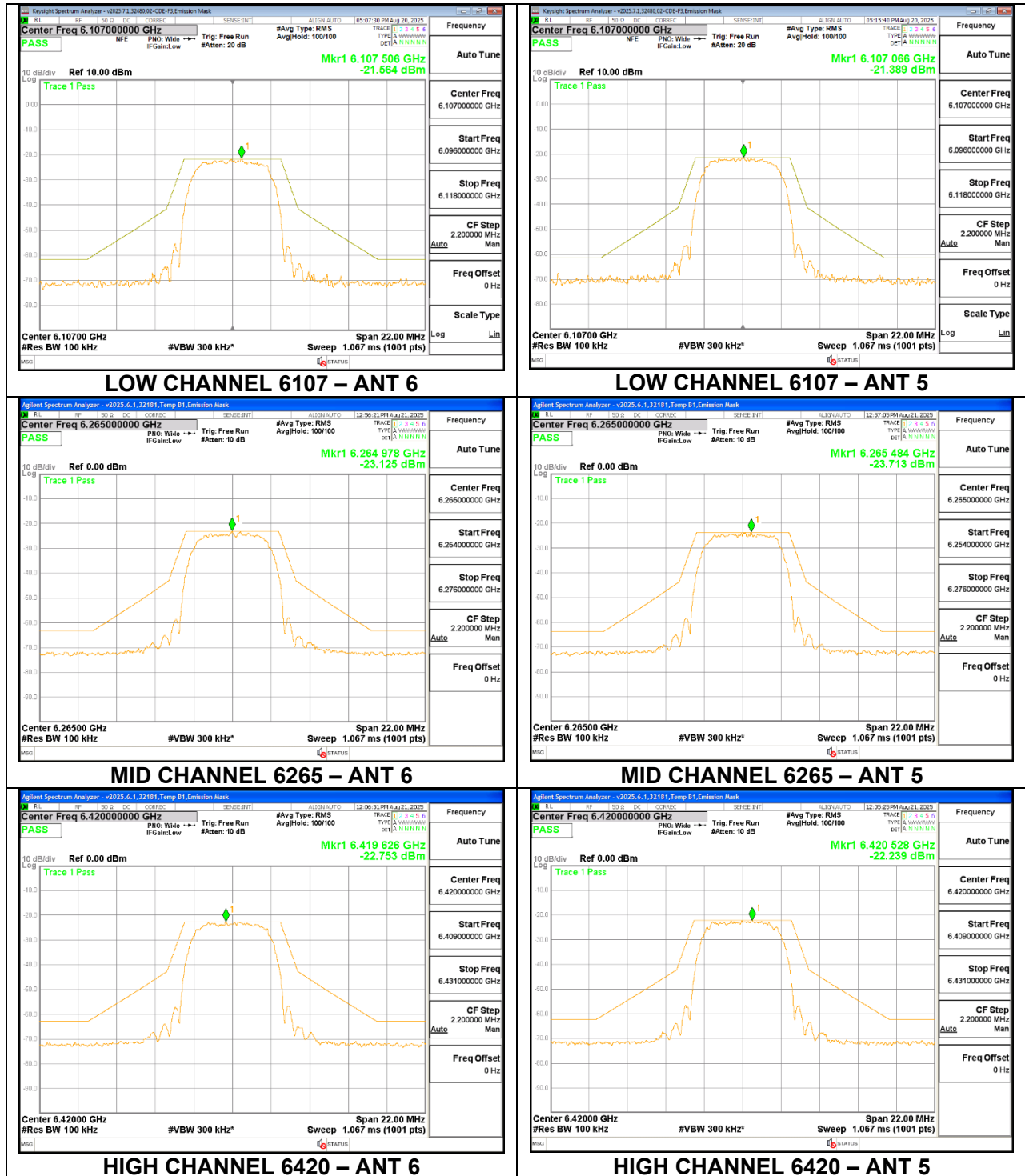
LE1M

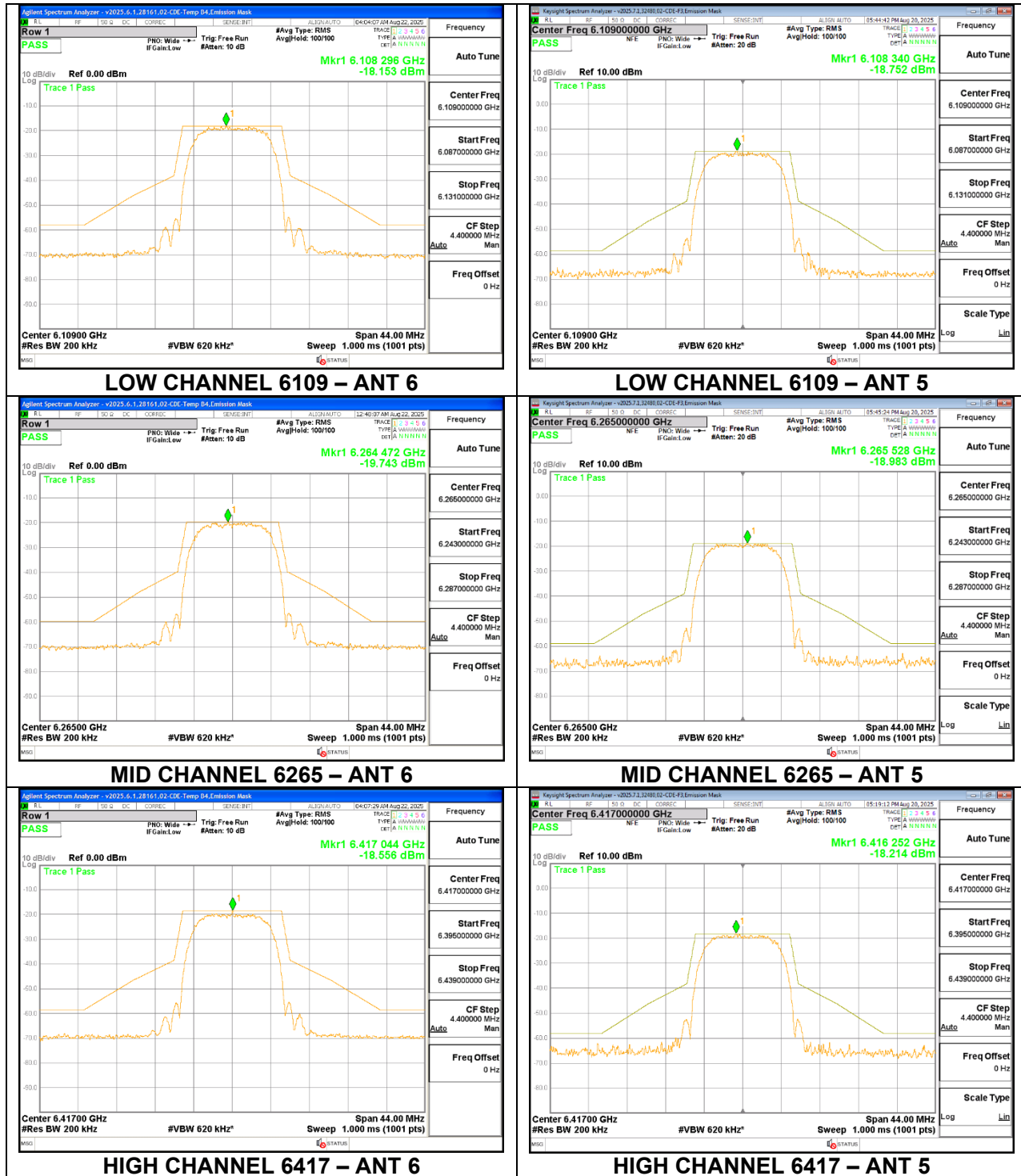
LE2M

HDT4

HDR4

XHDRPM8

HDRPM12

HDRPL8

10. VLP TPC

LIMITS

FCC §15.407 (d) (10)

(10) Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

RSS 248 4.5.6

a. The maximum e.i.r.p. spectral density shall not exceed -5 dBm/MHz
A very low-power device shall implement transmitter power control in order to have the capability to operate at least 6 dB lower than the maximum e.i.r.p. spectral density limit.

PROCEDURE

This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

1. Configure EUT and companion device for peer-to-peer communication (refer to section 6.6)
2. Set variable attenuator to 0dB (noise free spectral environment, Low RSSI simulation)
3. Establish a link and start communication between EUT and companion device
4. Capture PSD spectrum analyzer trace (3)
5. Set variable attenuator to 40dB (noisy spectral environment, High RSSI simulation)
6. Capture PSD spectrum analyzer trace (2)
7. Compare the highest PSD from trace (2) to the highest PSD on trace (3) and determine the delta.

SA Settings: 100kHz RBW/ 300kHz VBW

Span: 1.5MHz

Sweep: 1ms, max hold enabled for 100 sweeps with rms detector enabled.

Set up - Refer to Section 6.6. EUT was set to HDR4 hopping low power mode.

Companion device used for testing only supports HDR4 IPA hopping mode thus that is the mode used for testing.

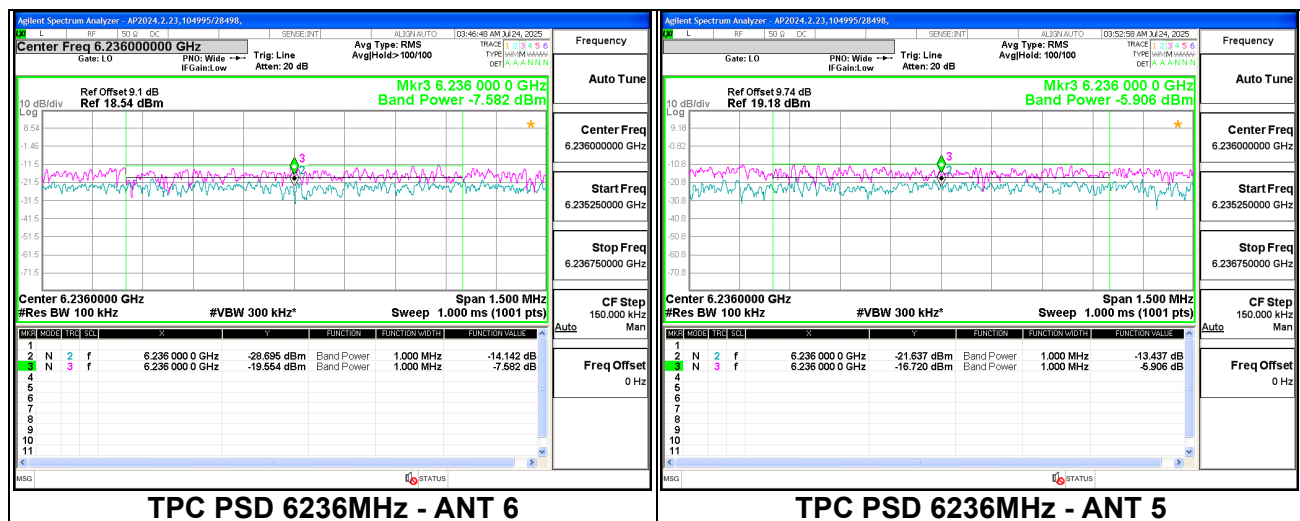
RESULTS

Mode	HDR4									
Frequency (MHz)	Antenna 6					Antenna 5				
	Highest Measured PSD EIRP (dBm/MHz)	Trace 2 EIRP PSD (dBm/MHz)	Trace 3 EIRP PSD (dBm/MHz)	Delta (dB)	High RSSI PSD EIRP (dBm/MHz)	Highest Measured PSD EIRP (dBm/MHz)	Trace 2 EIRP PSD (dBm/MHz)	Trace 3 EIRP PSD (dBm/MHz)	Delta (dB)	High RSSI PSD EIRP (dBm/MHz)
6236	-6.769	-14.142	-7.582	6.56	-13.33	-5.839	-13.437	-5.906	7.53	-13.37

For the TPC checks the device is operating in its normal (frequency hopping mode). Due to the frequency hopping operations, capturing the absolute rms PSD values is impractical. To show that output power is reduced with the high RSSI to a level at or below -11dBm/MHz the delta between the high RSSI and low RSSI PSD levels measured with the device hopping is applied to the measured maximum PSD for HDR4 from section 9.3.1 to show that the PSD at the high RSSI level is at or below -11dBm/MHz. The relative measurements (with the device hopping) are made following ANSI C63.10 section 12.6(e) (RBW < 1MHz and integration over 1MHz) at the center of the channel to reduce the impact from adjacent channels.

The device is compliant because when TPC is on the PSD is less than -11dBm/MHz.

Note: Testing was performed on SISO for BT UNII-5 TPC certification. Please refer to the operation description document regarding BT TxBF TPC.

VLP TPC POWER LEVEL REDUCTION

11. RADIATED TEST RESULTS

LIMITS

FCC §15.35(b)
FCC §15.205 Restrict bands
§15.209 and FCC §15.407(b)(6) -Un-Restrict bands

RSS-GEN 8.1
RSS-GEN 8.9 Un-Restrict bands
RSS-GEN 8.10 Restrict bands

RSS 248 Issue 3 section 4.6.2a

Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27dBm/MHz rms and -7dBm/MHz Peak.

General field strength limits at frequencies above 30 MHz;

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 6 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

RESULTS

The plots in these sections are for reference settings only for different bandwidths and different antenna ports.

11.1. TRANSMITTER OUTSIDE 5.925 - 7.125 GHz, 1- 18GHz

11.1.1. UNII-5 BAND SISO MODE – BANDEDGE – HIGH POWER

UNII-5 (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBm)	Det	ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Correct Reading (dBm)	Avg Limit (dBm)	Avg Margin (dB)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BDR	6106	6	5.857001	-49.06	Pk	35	11.8	0	-36.01	-38.27	-	-	-7	-31.27	247	104	H
			5.917601	-61.48	RMS	35.2	11.8	1.16	-35.75	-49.07	-27	-22.07	-	-	247	104	H
			5.925	-51.79	Pk	35.2	11.8	0	-35.9	-40.69	-	-	-7	-33.69	247	104	H
			5.925	-62.36	RMS	35.2	11.8	1.16	-35.9	-50.1	-27	-22.93	-	-	247	104	H
			5.874468	-49	Pk	35.1	11.8	0	-35.96	-38.06	-	-	-7	-31.06	117	120	V
			5.923868	-61.16	RMS	35.2	11.8	1.16	-35.9	-48.9	-27	-21.9	-	-	117	120	V
			5.925	-50.96	Pk	35.2	11.8	0	-35.9	-39.86	-	-	-7	-32.86	117	120	V
			5.925	-62.58	RMS	35.2	11.8	1.16	-35.9	-50.32	-27	-23.32	-	-	117	120	V
			5.746134	-46.51	Pk	34.8	11.8	0	-38.14	-38.05	-	-	-7	-31.05	357	116	H
		5	5.891668	-59.17	RMS	35	11.8	1.16	-37.74	-48.95	-27	-21.95	-	-	357	116	H
			5.925	-50.05	Pk	35.1	11.8	0	-37.62	-40.77	-	-	-7	-33.77	357	116	H
			5.925	-60.62	RMS	35.1	11.8	1.16	-37.62	-50.18	-27	-23.18	-	-	357	116	H
			5.873268	-59.27	RMS	35	11.8	1.16	-37.61	-48.92	-27	-21.92	-	-	35	137	V
			5.922735	-47.12	Pk	35.1	11.8	0	-37.6	-37.82	-	-	-7	-30.82	35	137	V
			5.925	-49.75	Pk	35.1	11.8	0	-37.62	-40.47	-	-	-7	-33.47	35	137	V
			5.925	-60.61	RMS	35.1	11.8	1.16	-37.62	-50.17	-27	-23.17	-	-	35	137	V
LE1M	6106	6	5.820868	-49.16	Pk	35	11.8	0	-36.05	-38.41	-	-	-7	-31.41	243	102	H
			5.913801	-61.32	RMS	35.2	11.8	0.72	-35.88	-49.48	-27	-22.48	-	-	243	100	H
			5.925	-51.66	Pk	35.2	11.8	0	-35.9	-40.56	-	-	-7	-33.56	243	102	H
			5.925	-62.37	RMS	35.2	11.8	0.72	-35.9	-50.55	-27	-23.55	-	-	243	100	H
			5.758134	-48.65	Pk	34.8	11.8	0	-36.17	-38.22	-	-	-7	-31.22	117	104	V
			5.911801	-61.08	RMS	35.2	11.8	0.72	-35.97	-49.33	-27	-22.33	-	-	117	104	V
			5.925	-51.05	Pk	35.2	11.8	0	-35.9	-39.95	-	-	-7	-32.95	117	104	V
			5.925	-62.06	RMS	35.2	11.8	0.72	-35.9	-50.24	-27	-23.24	-	-	117	104	V
		5	5.849734	-47.16	Pk	35	11.8	0	-37.82	-38.18	-	-	-7	-31.18	334	104	H
			5.857668	-59.18	RMS	35	11.8	0.72	-37.8	-49.46	-27	-22.46	-	-	334	104	H
			5.925	-50.14	Pk	35.1	11.8	0	-37.62	-40.86	-	-	-7	-33.86	334	104	H
			5.925	-60.13	RMS	35.1	11.8	0.72	-37.62	-50.13	-27	-23.13	-	-	334	104	H
			5.838201	-47.17	Pk	35	11.8	0	-37.71	-38.08	-	-	-7	-31.08	59	115	V
			5.874801	-59.19	RMS	35	11.8	0.72	-37.66	-49.33	-27	-22.33	-	-	59	115	V
			5.925	-50.23	Pk	35.1	11.8	0	-37.62	-40.95	-	-	-7	-33.95	59	115	V
			5.925	-60.61	RMS	35.1	11.8	0.72	-37.62	-50.61	-27	-23.61	-	-	59	115	V
LE2M	6106	6	5.876735	-49.28	Pk	35.1	11.8	0	-36.04	-38.42	-	-	-7	-31.42	260	113	H
			5.921001	-61.7	RMS	35.2	11.8	2.52	-35.82	-48	-27	-21	-	-	260	113	H
			5.925	-51.74	Pk	35.2	11.8	0	-35.9	-40.64	-	-	-7	-33.64	260	113	H
			5.925	-62.81	RMS	35.2	11.8	2.52	-35.9	-49.19	-27	-22.19	-	-	260	113	H
			5.897268	-49.32	Pk	35.1	11.8	0	-36.05	-38.47	-	-	-7	-31.47	133	111	V
			5.904801	-61.17	RMS	35.2	11.8	2.52	-35.85	-47.5	-27	-20.5	-	-	133	111	V
			5.925	-51.38	Pk	35.2	11.8	0	-35.9	-40.28	-	-	-7	-33.28	133	111	V
			5.925	-62.22	RMS	35.2	11.8	2.52	-35.9	-48.6	-27	-21.6	-	-	133	111	V
		5	5.850268	-59.08	RMS	35	11.8	2.52	-37.84	-47.6	-27	-20.6	-	-	357	116	H
			5.871401	-47.52	Pk	35	11.8	0	-37.61	-38.33	-	-	-7	-31.33	357	116	H
			5.925	-49.89	Pk	35.1	11.8	0	-37.62	-40.61	-	-	-7	-33.61	357	116	H
			5.925	-60.67	RMS	35.1	11.8	2.52	-37.62	-48.87	-27	-21.87	-	-	357	116	H
			5.844334	-59.27	RMS	35	11.8	2.52	-37.66	-47.61	-27	-20.61	-	-	37	136	V
			5.897668	-47.34	Pk	35	11.8	0	-37.73	-38.27	-	-	-7	-31.27	37	136	V
			5.925	-49.97	Pk	35.1	11.8	0	-37.62	-40.69	-	-	-7	-33.69	37	136	V
			5.925	-59.83	RMS	35.1	11.8	2.52	-37.62	-48.03	-27	-21.03	-	-	37	136	V
HDT4	6106	6	5.808201	-49.22	Pk	35	11.8	0	-36.09	-38.51	-	-	-7	-31.51	347	111	H
			5.905468	-61.37	RMS	35.2	11.8	0.3	-35.89	-49.95	-27	-22.95	-	-	347	111	H
			5.925	-51.71	Pk	35.2	11.8	0	-35.9	-40.61	-	-	-7	-33.61	347	111	H
			5.925	-62.79	RMS	35.2	11.8	0.3	-35.9	-51.38	-27	-24.38	-	-	347	111	H
			5.793868	-48.86	Pk	34.9	11.8	0	-36.16	-38.32	-	-	-7	-31.32	206	111	V
			5.924135	-61.06	RMS	35.2	11.8	0.3	-35.9	-49.65	-27	-22.65	-	-	206	111	V
			5.925	-50.77	Pk	35.2	11.8	0	-35.9	-39.67	-	-	-7	-32.67	206	111	V
			5.925	-61.67	RMS	35.2	11.8	0.3	-35.9	-50.26	-27	-23.26	-	-	206	111	V
		5	5.712867	-71.38	RMS	34.8	11.8	0.3	-23.2	-47.67	-27	-20.67	-	-	269	194	H
			5.775267	-59.63	Pk	34.9	11.8	0	-23.3	-36.23	-	-	-7	-29.23	269	194	H
			5.925	-63.21	Pk	35.2	11.8	0	-23.7	-39.91	-	-	-7	-32.91	269	194	H
			5.925	-73.23	RMS	35.2	11.8	0.3	-23.7	-49.62	-27	-22.62	-	-	269	194	H
			5.808201	-71.59	RMS	34.9	11.8	0.3	-23.1	-47.68	-27	-20.68	-	-	159	135	V
			5.862335	-59.5	Pk	35	11.8	0	-23.3	-36	-	-	-7	-29	159	135	V
			5.925	-61.99	Pk	35.2	11.8	0	-23.7	-38.69	-	-	-7	-31.69	159	135	V
			5.925	-73.17	RMS	35.2	11.8	0.3	-23.7	-49.56	-27	-22.56	-	-	159	135	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

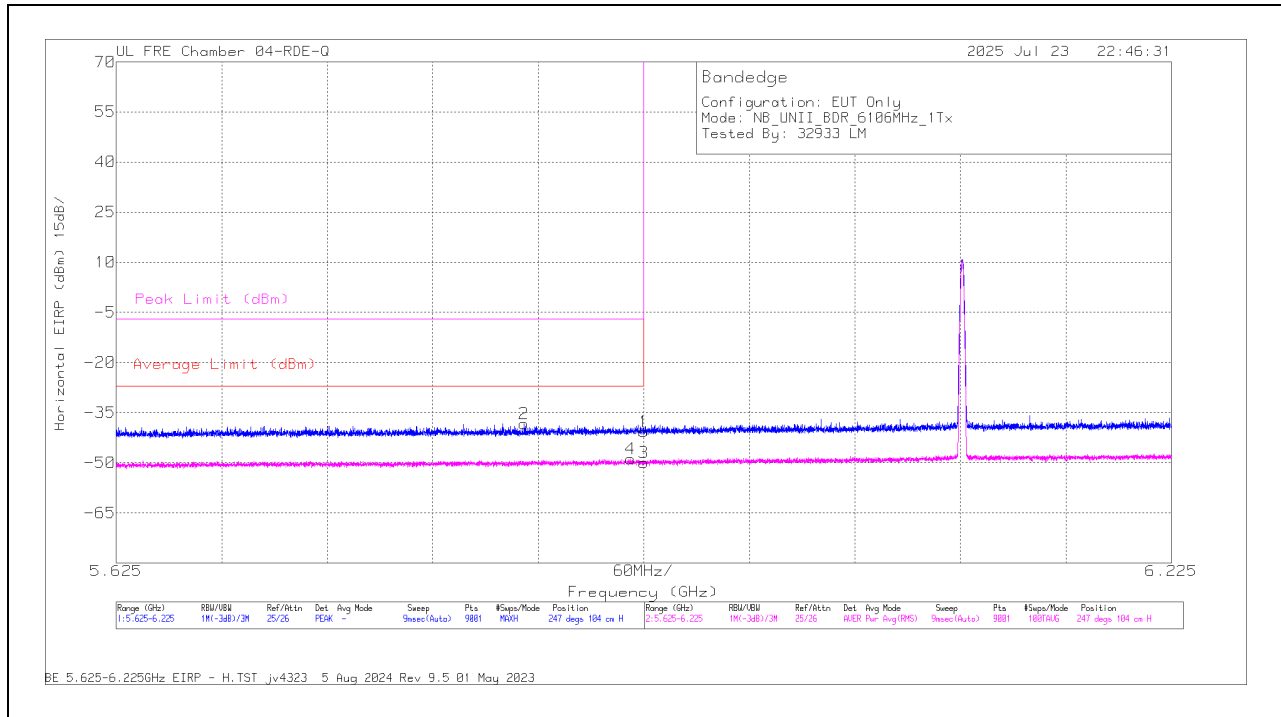
RMS - RMS detection

UNII-5 (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBm)	Det	ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Correct Reading (dBm)	Avg Limit (dBm)	Avg Margin (dB)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	6106	6	5.905868	-49.2	Pk	35.2	11.8	0	-35.92	-38.12	-	-	-7	-31.12	239	110	H
			5.914735	-61.56	RMS	35.2	11.8	1.09	-35.83	-49.3	-27	-22.3	-	-	239	110	H
			5.925	-51	Pk	35.2	11.8	0	-35.9	-39.9	-	-	-7	-32.9	239	110	H
			5.925	-62.66	RMS	35.2	11.8	1.09	-35.9	-50.47	-27	-23.47	-	-	239	110	H
			5.868935	-49.5	Pk	35.1	11.8	0	-36	-38.6	-	-	-7	-31.6	133	144	V
			5.918401	-61.55	RMS	35.2	11.8	1.09	-35.78	-49.24	-27	-22.24	-	-	133	144	V
			5.925	-50.93	Pk	35.2	11.8	0	-35.9	-39.83	-	-	-7	-32.83	133	144	V
			5.925	-62.7	RMS	35.2	11.8	1.09	-35.9	-50.51	-27	-23.51	-	-	133	144	V
		5	5.688334	-46.7	Pk	34.6	11.8	0	-38.17	-38.47	-	-	-7	-31.47	331	101	H
			5.845468	-59.25	RMS	35	11.8	1.09	-37.71	-49.07	-27	-22.07	-	-	331	101	H
			5.925	-49.59	Pk	35.1	11.8	0	-37.62	-40.31	-	-	-7	-33.31	331	101	H
			5.925	-60.03	RMS	35.1	11.8	1.09	-37.62	-49.66	-27	-22.66	-	-	331	101	H
			5.875535	-59.17	RMS	35	11.8	1.09	-37.69	-48.97	-27	-21.97	-	-	53	118	V
			5.914535	-47.56	Pk	35.1	11.8	0	-37.56	-38.22	-	-	-7	-31.22	53	118	V
			5.925	-49.09	Pk	35.1	11.8	0	-37.62	-39.81	-	-	-7	-32.81	53	118	V
			5.925	-60.4	RMS	35.1	11.8	1.09	-37.62	-50.03	-27	-23.03	-	-	53	118	V
XHDRPM8	6107	6	5.885135	-61.57	RMS	35.1	11.8	0.34	-33.48	-47.8	-27	-20.8	-	-	141	252	H
			5.912201	-48.5	Pk	35.2	11.8	0	-33.82	-35.32	-	-	-7	-28.32	141	252	H
			5.925	-51.07	Pk	35.2	11.8	0	-33.72	-37.79	-	-	-7	-30.79	141	252	H
			5.925	-62.75	RMS	35.2	11.8	0.34	-33.72	-49.12	-27	-22.12	-	-	141	252	H
			5.869935	-49.51	Pk	35	11.8	0	-33.79	-36.5	-	-	-7	-29.5	42	171	V
			5.883535	-61.63	RMS	35.1	11.8	0.34	-33.44	-47.82	-27	-20.82	-	-	42	171	V
			5.925	-49.29	Pk	35.2	11.8	0	-33.72	-36.01	-	-	-7	-29.01	42	171	V
			5.925	-62.24	RMS	35.2	11.8	0.34	-33.72	-48.61	-27	-21.61	-	-	42	171	V
		5	5.908001	-54.71	Pk	35.1	11.8	0	-29.7	-37.51	-	-	-7	-30.51	327	229	H
			5.914668	-66.82	RMS	35.1	11.8	0.34	-29.7	-49.27	-27	-22.27	-	-	327	229	H
			5.925	-56.7	Pk	35.2	11.8	0	-29.7	-39.4	-	-	-7	-32.4	327	229	H
			5.925	-68.29	RMS	35.2	11.8	0.34	-29.7	-50.64	-27	-23.64	-	-	327	229	H
			5.891001	-66.89	RMS	35.1	11.8	0.34	-29.7	-49.34	-27	-22.34	-	-	236	120	V
			5.896068	-55.35	Pk	35.1	11.8	0	-29.7	-38.15	-	-	-7	-31.15	236	120	V
			5.925	-57.99	Pk	35.2	11.8	0	-29.7	-40.69	-	-	-7	-33.69	236	120	V
			5.925	-68.11	RMS	35.2	11.8	0.34	-29.7	-50.46	-27	-23.46	-	-	236	120	V
HDRPM12	6107	6	5.823201	-49.33	Pk	34.9	11.8	0	-33.75	-36.38	-	-	-7	-29.38	141	252	H
			5.879868	-61.27	RMS	35.1	11.8	0.29	-33.55	-47.63	-27	-20.63	-	-	141	252	H
			5.925	-51.67	Pk	35.2	11.8	0	-33.72	-38.39	-	-	-7	-31.39	141	252	H
			5.925	-62.73	RMS	35.2	11.8	0.29	-33.72	-49.16	-27	-22.16	-	-	141	252	H
			5.881068	-61.64	RMS	35.1	11.8	0.29	-33.48	-47.93	-27	-20.93	-	-	42	171	V
			5.881401	-49.81	Pk	35.1	11.8	0	-33.48	-36.39	-	-	-7	-29.39	42	171	V
			5.925	-51.46	Pk	35.2	11.8	0	-33.72	-38.18	-	-	-7	-31.18	42	171	V
			5.925	-62.76	RMS	35.2	11.8	0.29	-33.72	-49.19	-27	-22.19	-	-	42	171	V
		5	5.753667	-54.49	Pk	34.7	11.8	0	-29.9	-37.89	-	-	-7	-30.89	353	102	H
			5.918935	-67.09	RMS	35.1	11.8	0.29	-29.7	-49.59	-27	-22.59	-	-	353	102	H
			5.925	-56.71	Pk	35.2	11.8	0	-29.7	-39.41	-	-	-7	-32.41	353	102	H
			5.925	-67.32	RMS	35.2	11.8	0.29	-29.7	-49.72	-27	-22.72	-	-	353	102	H
			5.805534	-54.76	Pk	34.9	11.8	0	-29.8	-37.86	-	-	-7	-30.86	51	102	V
			5.871601	-66.75	RMS	35	11.8	0.29	-29.7	-49.35	-27	-22.35	-	-	51	102	V
			5.925	-57.09	Pk	35.2	11.8	0	-29.7	-39.79	-	-	-7	-32.79	51	102	V
			5.925	-68.15	RMS	35.2	11.8	0.29	-29.7	-50.55	-27	-23.55	-	-	51	102	V
HDRPL8	6109	6	5.855068	-66.65	Pk	34.9	11.8	0	-16.4	-36.35	-	-	-7	-29.35	263	283	H
			5.881135	-78.81	RMS	35	11.8	0.16	-16.4	-48.25	-27	-21.25	-	-	263	283	H
			5.925	-69.86	Pk	35.1	11.8	0	-16.2	-39.16	-	-	-7	-32.16	263	283	H
			5.925	-80.36	RMS	35.1	11.8	0.16	-16.2	-49.5	-27	-22.5	-	-	263	283	H
			5.832534	-65.37	Pk	34.9	11.8	0	-16.6	-35.27	-	-	-7	-28.27	289	106	V
			5.859201	-78.9	RMS	34.9	11.8	0.16	-16.2	-48.23	-27	-21.23	-	-	289	106	V
			5.925	-68.38	Pk	35.1	11.8	0	-16.2	-37.68	-	-	-7	-30.68	289	106	V
			5.925	-79.85	RMS	35.1	11.8	0.16	-16.2	-48.99	-27	-21.99	-	-	289	106	V
		5	5.792068	-71.3	RMS	34.9	11.8	0.16	-23	-47.44	-27	-20.44	-	-	88	107	H
			5.873535	-59.67	Pk	35.1	11.8	0	-23.2	-35.97	-	-	-7	-28.97	88	107	H
			5.925	-62.79	Pk	35.2	11.8	0	-23.7	-39.49	-	-	-7	-32.49	88	107	H
			5.925	-73.11	RMS	35.2	11.8	0.16	-23.7	-49.63	-27	-22.63	-	-	88	107	H
			5.791534	-71.28	RMS	34.9	11.8	0.16	-23	-47.42	-27	-20.42	-	-	191	121	V
			5.799734	-59.78	Pk	34.9	11.8	0	-23	-36.08	-	-	-7	-29.08	191	121	V
			5.925	-62.03	Pk	35.2	11.8	0	-23.7	-38.73	-	-	-7	-31.73	191	121	V
			5.925	-73.49	RMS	35.2	11.8	0.16	-23.7	-50.03	-27	-23.03	-	-	191	121	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

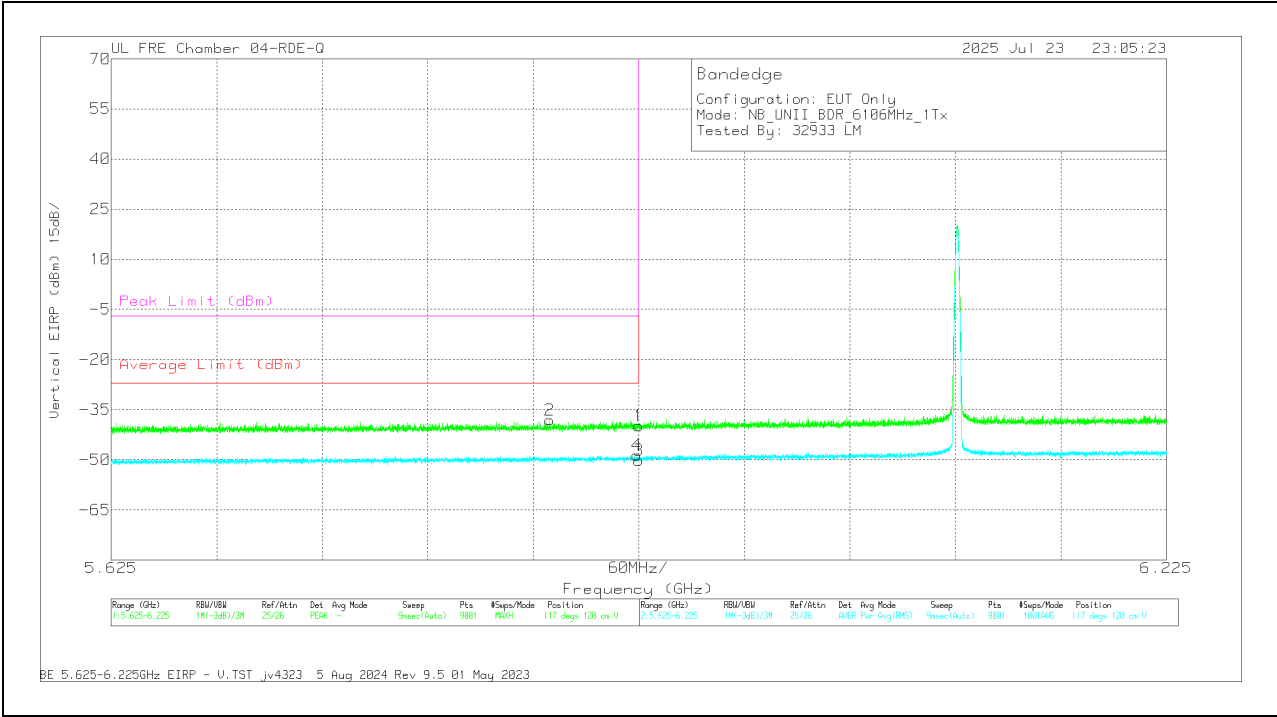
RMS - RMS detection

1TX Antenna 6:**BANDEDGE (LOW CHANNEL / 6106MHz)****HORIZONTAL RESULT****Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222741 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Average Limit (dBm)	Margin (dB)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.857001	-49.06	Pk	35	11.8	0	-36.01	-38.27	-	-	-7	-31.27	247	104	H
4	5.917601	-61.48	RMS	35.2	11.8	1.16	-35.75	-49.07	-27	-22.07	-	-	247	104	H
1	5.925	-51.79	Pk	35.2	11.8	0	-35.9	-40.69	-	-	-7	-33.69	247	104	H
3	5.925	-62.36	RMS	35.2	11.8	1.16	-35.9	-50.1	-27	-22.93	-	-	247	104	H

PK - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222741 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Average Limit (dBm)	Margin (dB)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.874468	-49	Pk	35.1	11.8	0	-35.96	-38.06	-	-	-7	-31.06	117	120	V
4	5.923868	-61.16	RMS	35.2	11.8	1.16	-35.9	-48.9	-27	-21.9	-	-	117	120	V
1	5.925	-50.96	Pk	35.2	11.8	0	-35.9	-39.86	-	-	-7	-32.86	117	120	V
3	5.925	-62.58	RMS	35.2	11.8	1.16	-35.9	-50.32	-27	-23.32	-	-	117	120	V

Pk - Peak detector
RMS - RMS detection

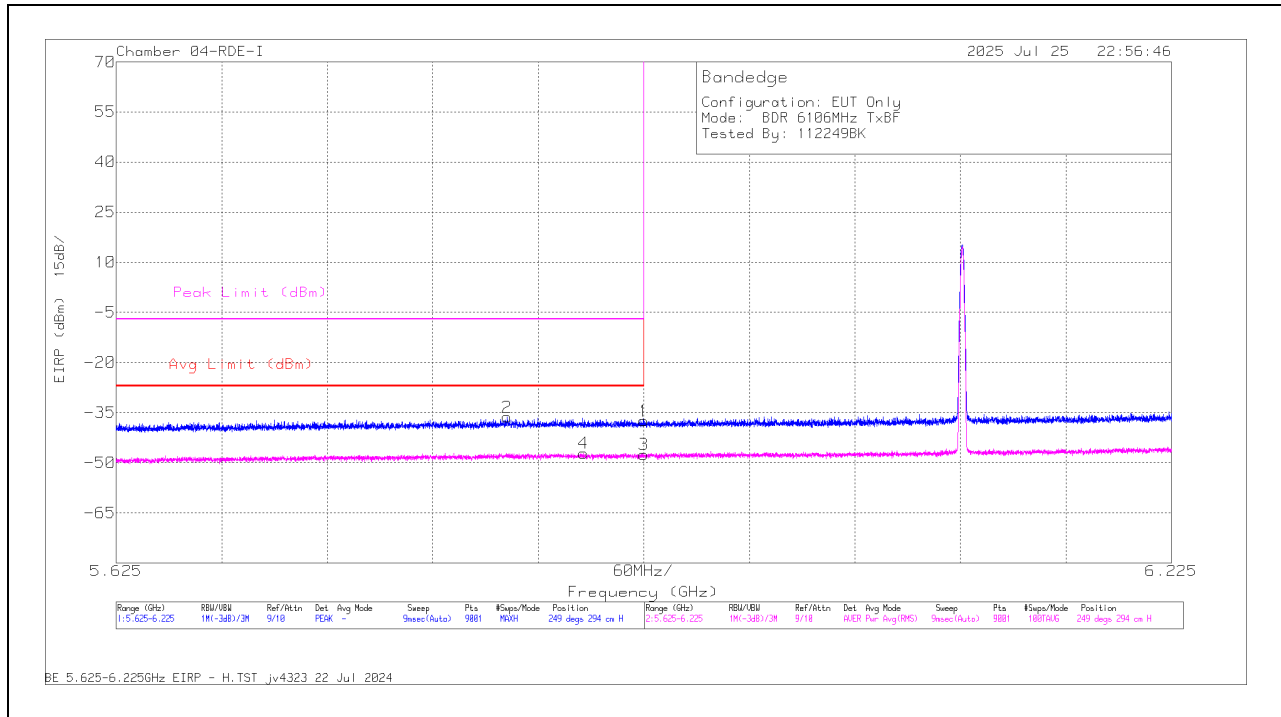
11.1.2. UNII-5 BAND MIMO MODE – BANDEDGE – HIGH POWER

UNII-5 (MIMO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBm)	Det	ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Correct Reading (dBm)	Avg Limit (dBm)	Avg Margin (dB)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BDR	6106	6 + 5	5.847268	-66.76	Pk	34.9	11.8	0	-16.3	-36.36	-	-	-7	-29.36	249	294	H
			5.890801	-79	RMS	35	11.8	1.16	-16.3	-47.34	-27	-20.34	-	-	249	294	H
			5.925	-68.18	Pk	35.1	11.8	0	-16.2	-37.48	-	-	-7	-30.48	249	294	H
			5.925	-79.6	RMS	35.1	11.8	1.16	-16.2	-47.74	-27	-20.74	-	-	249	294	H
			5.846134	-66.3	Pk	34.9	11.8	0	-16.3	-35.9	-	-	-7	-28.9	305	133	V
			5.872001	-78.93	RMS	35	11.8	1.16	-16.2	-47.17	-27	-20.17	-	-	305	133	V
			5.925	-68.62	Pk	35.1	11.8	0	-16.2	-37.92	-	-	-7	-30.92	305	133	V
			5.925	-80.15	RMS	35.1	11.8	1.16	-16.2	-48.29	-27	-21.29	-	-	305	133	V
LE1M	6106	6 + 5	5.843401	-78.16	RMS	34.9	11.8	0.72	-16.5	-47.24	-27	-20.24	-	-	250	242	H
			5.914335	-66.86	Pk	35.1	11.8	0	-16.2	-36.16	-	-	-7	-29.16	250	242	H
			5.925	-69.34	Pk	35.1	11.8	0	-16.2	-38.64	-	-	-7	-31.64	250	242	H
			5.925	-80.23	RMS	35.1	11.8	0.72	-16.2	-48.81	-27	-21.81	-	-	250	242	H
			5.866401	-66.35	Pk	34.9	11.8	0	-16.4	-36.05	-	-	-7	-29.05	306	131	V
			5.901868	-78.92	RMS	35	11.8	0.72	-16.2	-47.6	-27	-20.6	-	-	306	131	V
			5.925	-68.4	Pk	35.1	11.8	0	-16.2	-37.7	-	-	-7	-30.7	306	131	V
			5.925	-79.65	RMS	35.1	11.8	0.72	-16.2	-48.23	-27	-21.23	-	-	306	131	V
LE2M	6106	6 + 5	5.859135	-78.91	RMS	34.9	11.8	2.52	-16.2	-45.89	-27	-18.89	-	-	215	355	H
			5.890535	-66.9	Pk	35	11.8	0	-16.3	-36.4	-	-	-7	-29.4	215	355	H
			5.925	-69.31	Pk	35.1	11.8	0	-16.2	-38.61	-	-	-7	-31.61	215	355	H
			5.925	-80.06	RMS	35.1	11.8	2.52	-16.2	-46.84	-27	-19.84	-	-	215	355	H
			5.842134	-65.88	Pk	34.9	11.8	0	-16.6	-35.78	-	-	-7	-28.78	279	105	V
			5.891201	-78.49	RMS	35	11.8	2.52	-16.3	-45.47	-27	-18.47	-	-	279	105	V
			5.925	-67.84	Pk	35.1	11.8	0	-16.2	-37.14	-	-	-7	-30.14	279	105	V
			5.925	-79.36	RMS	35.1	11.8	2.52	-16.2	-46.14	-27	-19.14	-	-	279	105	V
HDT4	6106	6 + 5	5.911801	-60.79	RMS	35.2	11.8	0.3	-35.97	-49.45	-27	-22.45	-	-	183	154	H
			5.917735	-49.18	Pk	35.2	11.8	0	-35.75	-37.93	-	-	-7	-30.93	183	154	H
			5.925	-50.59	Pk	35.2	11.8	0	-35.9	-39.49	-	-	-7	-32.49	183	154	H
			5.925	-62.1	RMS	35.2	11.8	0.3	-35.9	-50.69	-27	-23.69	-	-	183	154	H
			5.918135	-48.37	Pk	35.2	11.8	0	-35.76	-37.13	-	-	-7	-30.13	125	182	V
			5.922135	-61.07	RMS	35.2	11.8	0.3	-35.86	-49.62	-27	-22.62	-	-	125	182	V
			5.925	-51.65	Pk	35.2	11.8	0	-35.9	-40.55	-	-	-7	-33.55	125	182	V
			5.925	-62.27	RMS	35.2	11.8	0.3	-35.9	-50.86	-27	-23.86	-	-	125	182	V
HDR4	6106	6 + 5	5.792468	-65.59	Pk	34.7	11.8	0	-16.9	-35.99	-	-	-7	-28.99	249	230	H
			5.923135	-78.7	RMS	35.1	11.8	1.09	-16.3	-47.01	-27	-20.01	-	-	249	230	H
			5.925	-69.56	Pk	35.1	11.8	0	-16.2	-38.86	-	-	-7	-31.86	249	230	H
			5.925	-79.7	RMS	35.1	11.8	1.09	-16.2	-47.91	-27	-20.91	-	-	249	230	H
			5.869535	-78.63	RMS	34.9	11.8	1.09	-16.3	-47.14	-27	-20.14	-	-	300	137	V
			5.909468	-67.1	Pk	35	11.8	0	-16.3	-36.6	-	-	-7	-29.6	300	137	V
			5.925	-68.65	Pk	35.1	11.8	0	-16.2	-37.95	-	-	-7	-30.95	300	137	V
			5.925	-79.77	RMS	35.1	11.8	1.09	-16.2	-47.98	-27	-20.98	-	-	300	137	V
XHDRPM8	6107	6 + 5	5.906401	-48.95	Pk	35.2	11.8	0	-35.92	-37.87	-	-	-7	-30.87	197	162	H
			5.912135	-60.76	RMS	35.2	11.8	0.34	-35.94	-49.35	-27	-22.35	-	-	197	162	H
			5.925	-50.99	Pk	35.2	11.8	0	-35.9	-39.89	-	-	-7	-32.89	197	162	H
			5.925	-61	RMS	35.2	11.8	0.34	-35.9	-49.55	-27	-22.55	-	-	197	162	H
			5.871001	-49.1	Pk	35.1	11.8	0	-36.04	-38.24	-	-	-7	-31.24	112	181	V
			5.917201	-61.27	RMS	35.2	11.8	0.34	-35.74	-49.66	-27	-22.66	-	-	112	181	V
			5.925	-52.16	Pk	35.2	11.8	0	-35.9	-41.06	-	-	-7	-34.06	112	181	V
			5.925	-62.03	RMS	35.2	11.8	0.34	-35.9	-50.58	-27	-23.58	-	-	112	181	V
HDRPM12	6107	6 + 5	5.868268	-49.1	Pk	35.1	11.8	0	-36.01	-38.21	-	-	-7	-31.21	197	171	H
			5.917268	-61.22	RMS	35.2	11.8	0.29	-35.74	-49.67	-27	-22.67	-	-	197	171	H
			5.925	-52.09	Pk	35.2	11.8	0	-35.9	-40.99	-	-	-7	-33.99	197	171	H
			5.925	-62.41	RMS	35.2	11.8	0.29	-35.9	-51.02	-27	-24.02	-	-	197	171	H
			5.873001	-49.18	Pk	35.1	11.8	0	-35.99	-38.27	-	-	-7	-31.27	118	146	V
			5.915735	-61.4	RMS	35.2	11.8	0.29	-35.8	-49.91	-27	-22.91	-	-	118	146	V
			5.925	-51.97	Pk	35.2	11.8	0	-35.9	-40.87	-	-	-7	-33.87	118	146	V
			5.925	-61.88	RMS	35.2	11.8	0.29	-35.9	-50.49	-27	-23.49	-	-	118	146	V
HDRPL8	6109	6 + 5	5.911268	-79.05	RMS	35.1	11.8	0.16	-16.3	-48.29	-27	-21.29	-	-	223	292	H
			5.922868	-67.2	Pk	35.1	11.8	0	-16.3	-36.6	-	-	-7	-29.6	223	292	H
			5.925	-69.1	Pk	35.1	11.8	0	-16.2	-38.4	-	-	-7	-31.4	223	292	H
			5.925	-80.4	RMS	35.1	11.8	0.16	-16.2	-49.54	-27	-22.54	-	-	223	292	H
			5.860335	-78.97	RMS	34.9	11.8	0.16	-16.2	-48.31	-27	-21.31	-	-	289	116	V
			5.892801	-66.7	Pk	35	11.8	0	-16.3	-36.2	-	-	-7	-29.2	289	116	V
			5.925	-69.1	Pk	35.1	11.8	0	-16.2	-38.4	-	-	-7	-31.4	289	116	V
			5.925	-79.73	RMS	35.1	11.8	0.16	-16.2	-48.87	-27	-21.87	-	-	289	116	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

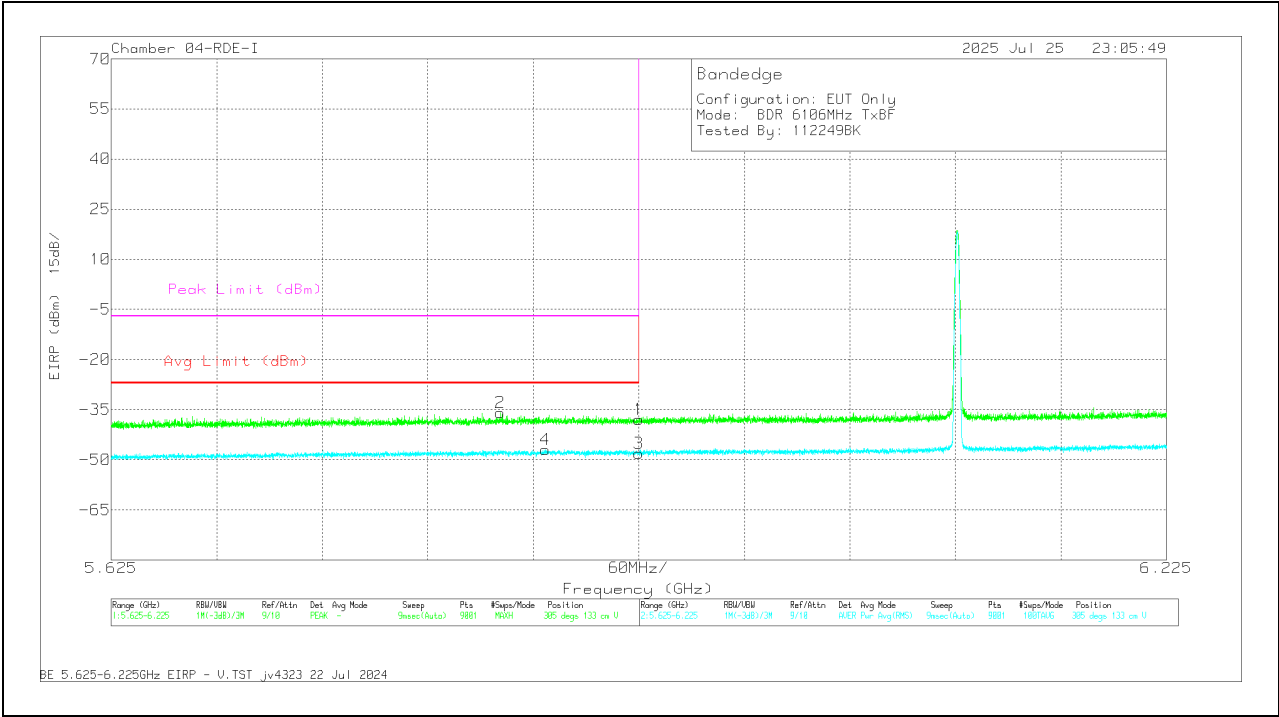
2TX Antennas 6 + 5:**BANDEDGE (LOW CHANNEL / 6106MHz)****HORIZONTAL RESULT****Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222740 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DCCF (dB)	Corrected Reading EIRP (dBm)	Avg Limit (dBm)	RMS Margin (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.847268	-66.76	PK	34.9	-16.3	11.8	0	-36.36	-	-	-7	-29.36	249	294	H
4	5.890801	-79	RMS	35	-16.3	11.8	1.16	-47.34	-27	-20.34	-	-	249	294	H
1	5.925	-68.18	PK	35.1	-16.2	11.8	0	-37.48	-	-	-7	-30.48	249	294	H
3	5.925	-79.6	RMS	35.1	-16.2	11.8	1.16	-47.74	-27	-20.74	-	-	249	294	H

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222740 ACF (dB/m)	Amp/Cbl/Pad (dB)	Conversion Factor (dB)	DCCF (dB)	Corrected Reading EIRP (dBm)	Avg Limit (dBm)	RMS Margin (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.846134	-66.3	Pk	34.9	-16.3	11.8	0	-35.9	-	-	-7	-28.9	305	133	V
4	5.872001	-78.93	RMS	35	-16.2	11.8	1.16	-47	-27	-20.17	-	-	305	133	V
1	5.925	-68.62	Pk	35.1	-16.2	11.8	0	-37.92	-	-	-7	-30.92	305	133	V
3	5.925	-80.15	RMS	35.1	-16.2	11.8	1.16	-48.12	-27	-21.29	-	-	305	133	V

Pk - Peak detector
RMS - RMS detection

11.1.3. UNII-5 BAND MIMO TXBF MODE - SPURIOUS EMISSIONS – HIGH POWER

UNII-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BDR	6106	6 + 5	* 8.118981	54.97	PK-U	36	0	-43.8	47.17	-	-	74	-26.83	184	277	H
			* 8.09402	43.25	ADR	36	1.16	-43.8	36.61	54	-17.39	-	-	184	277	H
			* 12.192231	53.17	PK-U	39.3	0	-41.12	51.35	-	-	74	-22.65	225	231	H
			* 12.194879	41.36	ADR	39.3	1.16	-41.11	40.71	54	-13.29	-	-	225	231	H
			* 8.115586	55.74	PK-U	36	0	-43.8	47.94	-	-	74	-26.06	155	377	V
			* 8.096884	43.55	ADR	36	1.16	-43.7	37.01	54	-16.99	-	-	155	377	V
			* 12.20513	52.64	PK-U	39.3	0	-41.1	50.84	-	-	74	-23.16	293	176	V
			* 12.199755	41.57	ADR	39.3	1.16	-41.22	40.81	54	-13.19	-	-	293	176	V
			3.053687	46.56	ADR	33.4	1.16	-47.4	33.72	68.2	-34.48	-	-	172	150	V
			3.053793	58.51	PK-U	33.4	0	-47.4	44.51	-	-	88.2	-43.69	236	145	H
			3.054389	46.53	ADR	33.4	1.16	-47.4	33.69	68.2	-34.51	-	-	236	145	H
			3.062886	58.47	PK-U	33.4	0	-47.4	44.47	-	-	88.2	-43.73	172	150	V
	6265	6 + 5	* 8.091308	55.29	PK-U	36	0	-43.7	47.59	-	-	74	-26.41	74	363	H
			* 8.095115	43.52	ADR	36	1.16	-43.7	36.98	54	-17.02	-	-	74	363	H
			* 12.523202	52.87	PK-U	39.2	0	-41.38	50.69	-	-	74	-23.31	115	190	H
			* 12.530529	41.13	ADR	39.2	1.16	-41.5	39.99	54	-14.01	-	-	115	190	H
			* 8.090612	54.74	PK-U	36	0	-43.7	47.04	-	-	74	-26.96	270	218	V
			* 8.118325	43.16	ADR	36	1.16	-43.8	36.52	54	-17.48	-	-	270	218	V
			* 12.532189	54.37	PK-U	39.2	0	-41.58	51.99	-	-	74	-22.01	143	179	V
			* 12.534653	41.07	ADR	39.2	1.16	-41.53	39.9	54	-14.1	-	-	143	179	V
			3.114134	46.75	ADR	33.3	1.16	-47.3	33.91	68.2	-34.29	-	-	222	155	H
			3.121236	46.73	ADR	33.3	1.16	-47.18	34.01	68.2	-34.19	-	-	237	138	V
			3.126648	58.97	PK-U	33.3	0	-47.1	45.17	-	-	88.2	-43.03	237	138	V
			3.138136	58.88	PK-U	33.3	0	-46.81	45.37	-	-	88.2	-42.83	222	155	H
	6420	6 + 5	* 8.209254	54.95	PK-U	36	0	-44.03	46.92	-	-	74	-27.08	229	105	H
			* 8.204698	43.15	ADR	36	1.16	-44	36.31	54	-17.69	-	-	229	105	H
			* 8.201563	55.37	PK-U	36	0	-44	47.37	-	-	74	-26.63	201	232	V
			* 8.204118	43.21	ADR	36	1.16	-44	36.37	54	-17.63	-	-	201	232	V
			3.203715	58.11	PK-U	33.2	0	-46.43	44.88	-	-	88.2	-43.32	304	262	V
			3.204088	57.69	PK-U	33.2	0	-46.4	44.49	-	-	88.2	-43.71	291	359	H
			3.205302	45.7	ADR	33.2	1.16	-46.43	33.63	68.2	-34.57	-	-	291	359	H
			3.20599	45.77	ADR	33.2	1.16	-46.5	33.63	68.2	-34.57	-	-	304	262	V
			12.833687	53.36	PK-U	39.3	0	-41.3	51.36	-	-	88.2	-36.84	355	350	H
			12.837974	41.57	ADR	39.3	1.16	-41.4	40.63	68.2	-27.57	-	-	11	143	V
			12.837982	53.33	PK-U	39.3	0	-41.4	51.23	-	-	88.2	-36.97	11	143	V
			12.844622	41.78	ADR	39.3	1.16	-41.46	40.78	68.2	-27.42	-	-	355	350	H
LE1M	6106	6 + 5	2.212743	61.07	PK-U	31.8	0	-50.3	42.57	-	-	74	-31.43	326	135	H
			2.219969	49.36	ADR	31.8	0.72	-50.33	31.55	54	-22.45	-	-	326	135	H
			3.254117	57.98	PK-U	32.8	0	-47.88	42.9	-	-	88.2	-45.3	61	152	H
			3.263814	46.34	ADR	32.8	0.72	-47.98	31.87	54	-22.12	-	-	61	152	H
			2.229508	61.17	PK-U	31.7	0	-50.34	42.53	-	-	74	-31.47	342	191	V
			2.21459	49.39	ADR	31.8	0.72	-50.3	31.61	54	-22.39	-	-	342	191	V
			3.266544	58.25	PK-U	32.8	0	-47.95	43.1	-	-	74	-30.9	25	193	V
			3.26358	46.5	ADR	32.8	0.72	-47.97	32.05	54	-21.95	-	-	25	193	V
			14.024273	55.91	PK-U	39.1	0	-43.64	51.37	-	-	88.2	-36.83	348	171	H
			14.017334	44.28	ADR	39.1	0.72	-43.79	40.31	68.2	-27.89	-	-	348	171	H
			14.024066	56.05	PK-U	39.1	0	-43.64	51.51	-	-	88.2	-36.69	353	212	V
			14.024362	44.61	ADR	39.1	0.72	-43.64	40.79	68.2	-27.41	-	-	353	212	V
	6265	6 + 5	3.349921	46.48	ADR	32.9	0.72	-47.73	32.37	54	-21.63	-	-	0	101	H
			3.350224	58.07	PK-U	32.9	0	-47.73	43.24	-	-	74	-30.76	0	200	V
			3.350272	58.72	PK-U	32.9	0	-47.73	43.89	-	-	74	-30.11	0	101	H
			3.353266	46.38	ADR	32.9	0.72	-47.65	32.35	54	-21.65	-	-	0	200	V
			10.091184	46.76	ADR	37.1	0.72	-46.96	37.62	68.2	-30.58	-	-	0	101	H
			10.091655	58.41	PK-U	37.1	0	-46.98	48.53	-	-	88.2	-39.67	0	101	H
			10.092391	46.51	ADR	37.1	0.72	-46.99	37.34	68.2	-30.86	-	-	0	199	V
			10.094084	58.09	PK-U	37.1	0	-47.02	48.17	-	-	88.2	-40.03	0	199	V
			14.825035	57.05	PK-U	39.7	0	-44.33	52.42	-	-	88.2	-35.78	0	199	H
			14.826615	57.34	PK-U	39.7	0	-44.36	52.68	-	-	88.2	-35.52	0	199	V
			14.827675	45.39	ADR	39.7	0.72	-44.37	41.44	68.2	-26.76	-	-	0	199	H
			14.827897	45.4	ADR	39.7	0.72	-44.36	41.46	68.2	-26.74	-	-	0	199	V
	6420	6 + 5	* 2.348819	58.67	PK-U	31.9	0	-48.78	41.79	-	-	74	-32.21	1	198	H
			* 2.349214	46.29	ADR	31.9	0.72	-48.78	30.13	54	-23.87	-	-	1	198	H
			* 10.657912	55.92	PK-U	37.8	0	-43.89	49.83	-	-	74	-24.17	1	101	H
			* 10.658625	44.19	ADR	37.8	0.72	-43.9	38.81	54	-15.19	-	-	1	101	H
			* 11.581154	55.52	PK-U	38.4	0	-42.67	51.25	-	-	74	-22.75	1	199	V
			* 11.583137	43.95	ADR	38.4	0.72	-42.61	40.46	54	-13.54	-	-	1	199	V
			* 12.494502	56.34	PK-U	38.9	0	-43.53	51.71	-	-	74	-22.29	1	101	V
			* 12.49491	44.79	ADR	38.9	0.72	-43.51	40.9	54	-13.1	-	-	1	101	V
			2.592412	57.59	PK-U	32.4	0	-48.39	41.6	-	-	88.2	-46.6	1	198	H
			2.592855	46.19	ADR	32.4	0.72	-48.38	30.93	68.2	-37.27	-	-	1	198	H
			2.943845	45.13	ADR	32.2	0.72	-46.97	31.08	68.2	-37.12	-	-	1	101	V
			2.947675	56.44	PK-U	32.2	0	-46.94	41.7	-	-	88.2	-46.5	1	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

UNI-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Ftr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
LE2M	6106	6 + 5	* 2.204169	57.79	PK-U	31.7	0	-46.62	42.87	-	-	74	-31.13	3	101	H
			* 2.204052	45.95	ADR	31.7	2.52	-46.61	33.56	54	-20.44	-	-	3	101	H
			* 3.62725	55.31	PK-U	33.1	0	-45.33	43.08	-	-	74	-30.92	3	101	H
			* 3.625985	43.68	ADR	33.1	2.52	-45.3	34	54	-20	-	-	3	101	H
			* 2.206667	58	PK-U	31.7	0	-46.57	43.13	-	-	74	-30.87	3	101	V
			* 2.203339	45.81	ADR	31.7	2.52	-46.67	33.36	54	-20.64	-	-	3	101	V
			* 3.630202	56.03	PK-U	33.1	0	-45.38	43.75	-	-	74	-30.25	3	101	V
			* 3.630597	43.73	ADR	33.1	2.52	-45.34	34.01	54	-19.99	-	-	3	101	V
			* 10.88488	53.35	PK-U	37.9	0	-42.29	48.96	-	-	74	-25.04	3	101	H
			* 10.883869	41.93	ADR	37.9	2.52	-42.2	40.15	54	-13.85	-	-	3	101	H
			* 10.881508	53.59	PK-U	37.9	0	-42.2	49.29	-	-	74	-24.71	3	101	V
			* 10.881881	41.95	ADR	37.9	2.52	-42.2	40.17	54	-13.83	-	-	3	101	V
	6265	6 + 5	* 2.225767	57.44	PK-U	31.7	0	-46.58	42.56	-	-	74	-31.44	0	101	H
			* 2.225619	45.5	ADR	31.7	2.52	-46.56	33.16	54	-20.84	-	-	0	101	H
			* 3.634969	55.74	PK-U	33.1	0	-45.3	43.54	-	-	74	-30.46	0	101	H
			* 3.633265	43.72	ADR	33.1	2.52	-45.33	34.01	54	-19.99	-	-	0	101	H
			* 2.227791	57.53	PK-U	31.7	0	-46.6	42.63	-	-	74	-31.37	0	101	V
			* 2.227365	45.68	ADR	31.7	2.52	-46.6	33.3	54	-20.7	-	-	0	101	V
			* 3.632945	55.98	PK-U	33.1	0	-45.3	43.78	-	-	74	-30.22	0	101	V
			* 3.63572	43.91	ADR	33.1	2.52	-45.37	34.16	54	-19.84	-	-	0	101	V
			* 10.940312	53.88	PK-U	37.9	0	-42.76	49.02	-	-	74	-24.98	0	101	H
			* 10.941535	42.23	ADR	37.9	2.52	-42.9	39.75	54	-14.25	-	-	0	101	H
			* 10.941223	53.55	PK-U	37.9	0	-42.9	48.55	-	-	74	-25.45	0	101	V
			* 10.938428	42.03	ADR	37.9	2.52	-42.84	39.61	54	-14.39	-	-	0	101	V
	6420	6 + 5	* 2.186066	57.45	PK-U	31.7	0	-46.51	42.64	-	-	88.2	-45.56	0	101	H
			* 2.185528	45.6	ADR	31.7	2.52	-46.5	33.32	68.2	-34.88	-	-	0	101	H
			* 3.654724	55.9	PK-U	33.2	0	-45.33	43.77	-	-	74	-30.23	0	101	H
			* 3.652024	43.65	ADR	33.2	2.52	-45.3	34.07	54	-19.93	-	-	0	101	H
			* 2.183368	57.39	PK-U	31.7	0	-46.54	42.55	-	-	88.2	-45.65	0	101	V
			* 2.184308	45.58	ADR	31.7	2.52	-46.57	33.23	68.2	-34.97	-	-	0	101	V
			* 3.653392	55.17	PK-U	33.2	0	-45.4	42.97	-	-	74	-31.03	0	101	V
			* 3.655229	43.78	ADR	33.2	2.52	-45.3	34.2	54	-19.8	-	-	0	101	V
			* 10.97621	53.67	PK-U	37.9	0	-41.68	49.89	-	-	74	-24.11	0	101	H
			* 10.9779	42.16	ADR	37.9	2.52	-41.6	40.98	54	-13.02	-	-	0	101	H
			* 10.975541	54.51	PK-U	37.9	0	-41.7	50.71	-	-	74	-23.29	0	101	V
			* 10.975239	42.22	ADR	37.9	2.52	-41.7	40.94	54	-13.06	-	-	0	101	V
HDT4	6106	6 + 5	* 2.208532	57.99	PK-U	31.7	0	-46.55	43.14	-	-	74	-30.86	1	101	H
			* 2.207995	46.14	ADR	31.7	0.3	-46.6	31.55	54	-22.45	-	-	1	101	H
			* 3.629745	55.17	PK-U	33.1	0	-45.4	42.87	-	-	74	-31.13	1	101	H
			* 3.630931	43.95	ADR	33.1	0.3	-45.31	32.05	54	-21.95	-	-	1	101	H
			* 2.208791	58.16	PK-U	31.7	0	-46.52	43.34	-	-	74	-30.66	1	101	V
			* 2.209913	46	ADR	31.7	0.3	-46.59	31.42	54	-22.58	-	-	1	101	V
			* 3.62958	55.75	PK-U	33.1	0	-45.4	43.45	-	-	74	-30.55	1	101	V
			* 3.628973	43.83	ADR	33.1	0.3	-45.4	31.84	54	-22.16	-	-	1	101	V
			* 10.867241	53.94	PK-U	37.9	0	-42.2	49.64	-	-	74	-24.36	1	101	H
			* 10.865783	42.36	ADR	37.9	0.3	-42.32	38.25	54	-15.75	-	-	1	101	H
			* 10.865134	54.06	PK-U	37.9	0	-42.39	49.57	-	-	74	-24.43	1	101	V
			* 10.863924	42.41	ADR	37.9	0.3	-42.31	38.31	54	-15.69	-	-	1	101	V
	6265	6 + 5	* 2.212186	57.43	PK-U	31.7	0	-46.62	42.51	-	-	74	-31.49	2	101	H
			* 2.212761	46.09	ADR	31.7	0.3	-46.68	31.42	54	-22.58	-	-	2	101	H
			* 3.631542	55.57	PK-U	33.1	0	-45.3	43.37	-	-	74	-30.63	2	101	H
			* 3.631389	43.86	ADR	33.1	0.3	-45.3	31.97	54	-22.03	-	-	2	101	H
			* 2.210726	57.7	PK-U	31.7	0	-46.53	42.87	-	-	74	-31.13	2	101	V
			* 2.209049	45.95	ADR	31.7	0.3	-46.5	31.46	54	-22.54	-	-	2	101	V
			* 3.626167	55.33	PK-U	33.1	0	-45.3	43.13	-	-	74	-30.87	2	101	V
			* 3.628831	43.82	ADR	33.1	0.3	-45.4	31.83	54	-22.17	-	-	2	101	V
			* 10.960017	54.33	PK-U	37.9	0	-42.5	49.73	-	-	74	-24.27	2	101	H
			* 10.959534	42.26	ADR	37.9	0.3	-42.55	37.92	54	-16.08	-	-	2	101	H
			* 10.960072	53.91	PK-U	37.9	0	-42.49	49.32	-	-	74	-24.68	2	101	V
			* 10.958905	42.28	ADR	37.9	0.3	-42.6	37.89	54	-16.11	-	-	2	101	V
	6420	6 + 5	* 2.223227	57.28	PK-U	31.7	0	-46.63	42.35	-	-	74	-31.65	0	101	H
			* 2.221797	45.82	ADR	31.7	0.3	-46.68	31.15	54	-22.85	-	-	0	101	H
			* 3.641598	55.85	PK-U	33.1	0	-45.34	43.61	-	-	74	-30.39	0	101	H
			* 3.641531	44.18	ADR	33.1	0.3	-45.35	32.24	54	-21.76	-	-	0	101	H
			* 2.21903	56.9	PK-U	31.7	0	-46.6	42	-	-	74	-32	0	101	V
			* 2.221337	45.09	ADR	31.7	0.3	-46.63	30.47	54	-23.53	-	-	0	101	V
			* 3.637902	56	PK-U	33.1	0	-45.31	43.79	-	-	74	-30.21	0	101	V
			* 3.639005	43.85	ADR	33.1	0.3	-45.3	31.96	54	-22.04	-	-	0	101	V
			* 10.921108	54.38	PK-U	37.9	0	-42.79	49.49	-	-	74	-24.51	0	101	H
			* 10.920273	42.21	ADR	37.9	0.3	-42.8	37.62	54	-16.38	-	-	0	101	H
			* 10.921032	54.12	PK-U	37.9	0	-42.8	49.22	-	-	74	-24.78	0	101	V
			* 10.920442	42.1	ADR	37.9	0.3	-42.8	37.51	54	-16.49	-	-	0	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

UNII-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/F ltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	6106	6 + 5	3.070303	59.06	PK-U	33	0	-48.87	43.19	-	-	88.2	-45.01	0	200	V
			3.073863	47.09	ADR	33	1.09	-48.86	32.31	68.2	-35.89	-	-	0	200	V
			3.073968	47.05	ADR	33	1.09	-48.86	32.27	68.2	-35.93	-	-	0	101	H
			3.07429	58.84	PK-U	33	0	-48.85	42.99	-	-	88.2	-45.21	0	101	H
			10.606069	45.24	ADR	37.5	1.09	-45.84	37.98	54	-16.02	-	-	0	200	H
			10.607219	45.14	ADR	37.5	1.09	-45.87	37.85	54	-16.15	-	-	0	200	V
			10.607293	56.83	PK-U	37.5	0	-45.86	48.47	-	-	74	-25.53	0	200	V
			10.607344	56.96	PK-U	37.5	0	-45.86	48.6	-	-	74	-25.4	0	200	H
			14.796316	57.21	PK-U	39.7	0	-43.88	53.03	-	-	88.2	-35.17	0	200	H
			14.797326	45.24	ADR	39.7	1.09	-43.86	42.16	68.2	-26.04	-	-	0	200	H
			14.797643	45.4	ADR	39.7	1.09	-43.86	42.32	68.2	-25.88	-	-	0	200	V
			14.800445	56.68	PK-U	39.7	0	-43.87	52.51	-	-	88.2	-35.69	0	200	V
			3.862311	46.13	ADR	33.5	1.09	-47.76	32.95	54	-21.05	-	-	0	101	V
			3.862659	57.49	PK-U	33.5	0	-47.77	43.22	-	-	74	-30.78	0	101	V
			3.867312	46.07	ADR	33.5	1.09	-47.74	32.91	54	-21.09	-	-	0	101	H
			3.869458	57.55	PK-U	33.5	0	-47.8	43.25	-	-	74	-30.75	0	101	H
			10.568503	57.27	PK-U	37.5	0	-45.61	49.16	-	-	88.2	-39.04	0	101	V
	6265	6 + 5	10.568521	45.38	ADR	37.5	1.09	-45.61	38.35	68.2	-29.85	-	-	0	101	V
			10.569808	45.4	ADR	37.5	1.09	-45.6	38.38	68.2	-29.82	-	-	0	101	H
			10.570263	57.12	PK-U	37.5	0	-45.61	49.01	-	-	88.2	-39.19	0	101	H
			14.798389	57.24	PK-U	39.7	0	-43.86	53.08	-	-	88.2	-35.12	0	101	H
			14.799684	45.24	ADR	39.7	1.09	-43.87	42.15	68.2	-26.05	-	-	0	101	H
			14.803682	45.37	ADR	39.6	1.09	-43.93	42.12	68.2	-26.08	-	-	0	200	V
			14.804059	56.98	PK-U	39.6	0	-43.93	52.65	-	-	88.2	-35.55	0	200	V
			3.869711	46.28	ADR	33.5	1.09	-47.8	33.06	54	-20.94	-	-	0	199	H
			3.869771	57.75	PK-U	33.5	0	-47.79	43.46	-	-	74	-30.54	0	199	H
			3.872201	58.26	PK-U	33.5	0	-47.85	43.91	-	-	74	-30.09	0	101	V
			3.872687	46.12	ADR	33.5	1.09	-47.87	32.83	54	-21.17	-	-	0	101	V
			9.985881	46.53	ADR	37.1	1.09	-46.61	38.1	68.2	-30.1	-	-	0	101	V
			9.987177	58.54	PK-U	37.1	0	-46.56	49.08	-	-	88.2	-39.12	0	101	V
			9.98929	58.19	PK-U	37.1	0	-46.48	48.81	-	-	88.2	-39.39	0	199	H
			9.989935	46.69	ADR	37.1	1.09	-46.44	38.43	68.2	-29.77	-	-	0	199	H
			14.925685	57.48	PK-U	39.7	0	-44.7	52.48	-	-	88.2	-35.72	0	101	H
			14.926636	57.43	PK-U	39.7	0	-44.69	52.44	-	-	88.2	-35.76	0	200	V
	6420	6 + 5	14.927736	45.45	ADR	39.7	1.09	-44.68	41.55	68.2	-26.65	-	-	0	101	H
			14.927986	45.63	ADR	39.7	1.09	-44.68	41.73	68.2	-26.47	-	-	0	200	V
XHDRPM8	6107	6 + 5	* 2.220458	57.05	PK-U	31.7	0	-46.6	42.15	-	-	74	-31.85	3	101	H
			* 2.221977	45.77	ADR	31.7	0.34	-46.7	31.11	54	-22.89	-	-	3	101	H
			* 3.699937	56.6	PK-U	33.3	0	-45.2	44.7	-	-	74	-29.3	3	101	H
			* 3.696716	44.23	ADR	33.3	0.34	-45.37	32.5	54	-21.5	-	-	3	101	H
			* 2.220291	57.31	PK-U	31.7	0	-46.6	42.41	-	-	74	-31.59	3	101	V
			* 2.222847	45.7	ADR	31.7	0.34	-46.53	31.21	54	-22.79	-	-	3	101	V
			* 3.700239	55.8	PK-U	33.3	0	-45.2	43.9	-	-	74	-30.1	3	101	V
			* 3.698092	44.3	ADR	33.3	0.34	-45.2	32.74	54	-21.26	-	-	3	101	V
			13.406689	53.67	PK-U	39.1	0	-42.17	50.6	-	-	88.2	-37.6	3	101	H
			13.406318	41.65	ADR	39.1	0.34	-42.13	38.96	68.2	-29.24	-	-	3	101	H
			13.411102	53.12	PK-U	39.1	0	-42.29	49.93	-	-	88.2	-38.27	3	101	V
			13.408219	41.63	ADR	39.1	0.34	-42.2	38.87	68.2	-29.33	-	-	3	101	V
	6265	6 + 5	2.179482	61.44	PK-U	31.7	0	-50.39	42.75	-	-	88.2	-45.45	360	101	H
			2.216545	49.34	ADR	31.8	0.34	-50.3	31.18	54	-22.82	-	-	360	101	H
			2.204049	60.63	PK-U	31.8	0	-50.23	42.2	-	-	74	-31.8	360	101	V
			2.214977	49.21	ADR	31.8	0.34	-50.29	31.06	54	-22.94	-	-	360	101	V
			10.594514	56.46	PK-U	37.8	0	-45.82	48.44	-	-	88.2	-39.76	360	101	H
			10.604269	44.46	ADR	37.7	0.34	-45.78	36.72	54	-17.28	-	-	360	101	H
			15.370735	53.5	PK-U	40.6	0	-41.93	52.17	-	-	74	-21.83	360	101	H
			15.38891	42.26	ADR	40.7	0.34	-42.22	41.08	54	-12.92	-	-	360	101	H
			10.593154	56.22	PK-U	37.8	0	-45.79	48.23	-	-	88.2	-39.97	360	101	V
			10.610172	44.8	ADR	37.7	0.34	-45.86	36.98	54	-17.02	-	-	360	101	V
			15.371403	53.97	PK-U	40.6	0	-41.94	52.63	-	-	74	-21.37	360	101	V
			15.388238	42.42	ADR	40.7	0.34	-42.19	41.27	54	-12.73	-	-	360	101	V
	6420	6 + 5	* 2.200602	57.62	PK-U	31.7	0	-46.5	42.82	-	-	74	-31.18	0	101	H
			* 2.202798	46.22	ADR	31.7	0.34	-46.66	31.6	54	-22.4	-	-	0	101	H
			* 3.616304	55.3	PK-U	33.1	0	-45.3	43.1	-	-	74	-30.9	0	101	H
			* 3.618165	43.82	ADR	33.1	0.34	-45.38	31.88	54	-22.12	-	-	0	101	H
			* 2.264054	57.43	PK-U	31.7	0	-46.7	42.43	-	-	74	-31.57	0	101	V
			* 2.200728	45.91	ADR	31.7	0.34	-46.5	31.45	54	-22.55	-	-	0	101	V
			* 3.615908	55.55	PK-U	33.1	0	-45.31	43.34	-	-	74	-30.66	0	101	V
			* 3.61641	43.73	ADR	33.1	0.34	-45.3	31.87	54	-22.13	-	-	0	101	V
			* 13.307765	53.09	PK-U	39	0	-41.55	50.54	-	-	74	-23.46	0	101	H
			* 13.306042	41.47	ADR	39	0.34	-41.51	39.3	54	-14.7	-	-	0	101	H
			* 13.30321	52.58	PK-U	39	0	-41.52	50.06	-	-	74	-23.94	0	101	V
			* 13.303388	41.35	ADR	39	0.34	-41.54	39.15	54	-14.85	-	-	0	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

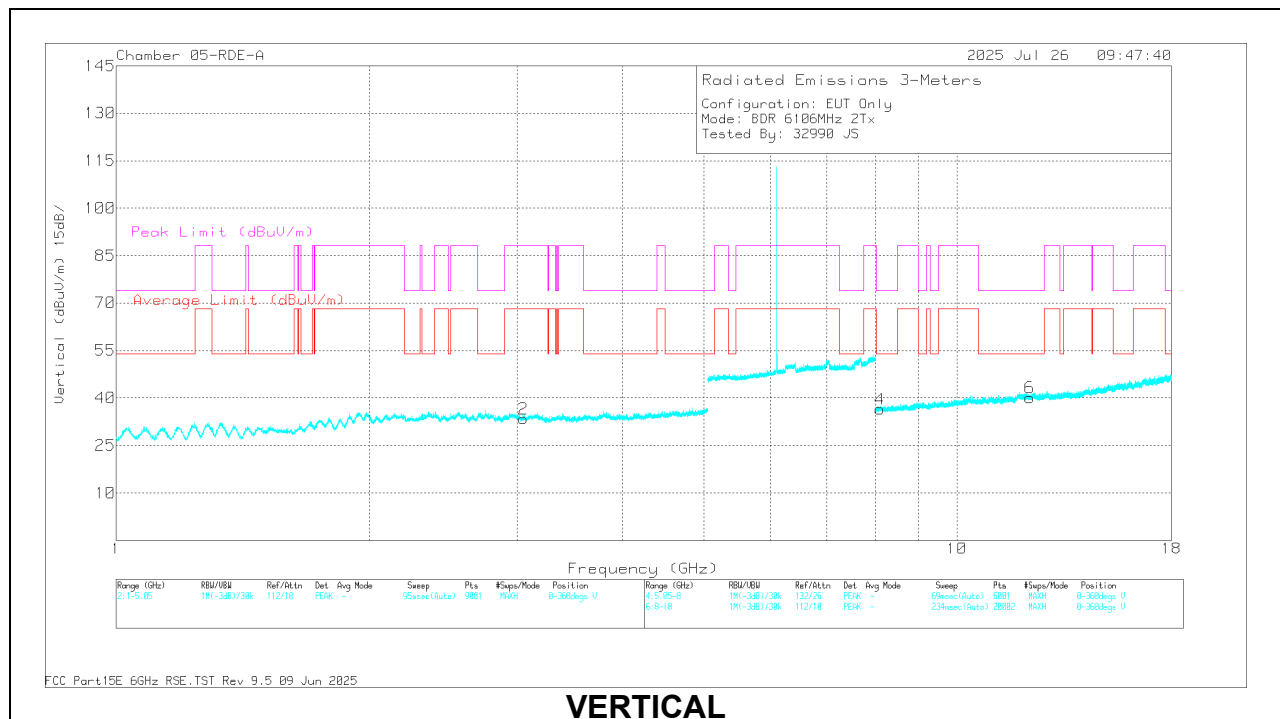
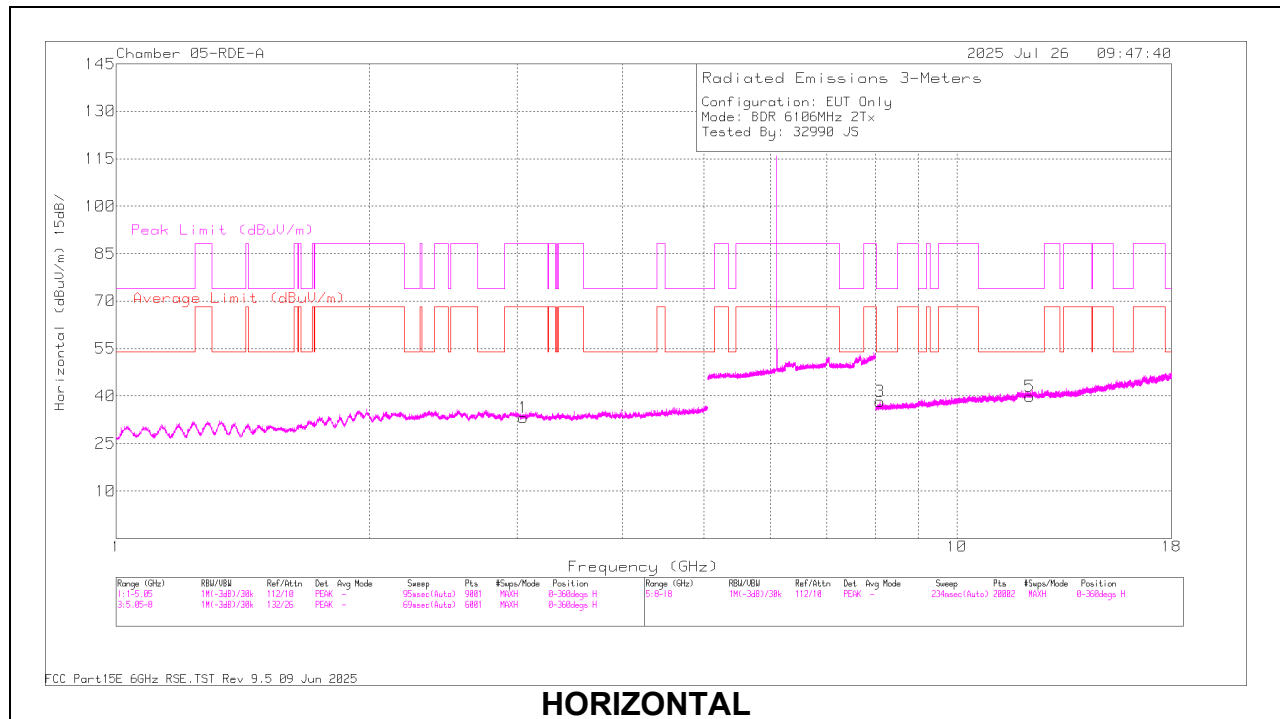
ADR - U-NII AD primary method, RMS average

UNII-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Ftr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDRPM12	6107	6 + 5	* 8.194835	55.33	PK-U	36	0	-44.02	47.31	-	-	74	-26.69	308	341	H
			* 8.196591	44.11	ADR	36	0.29	-44	36.41	54	-17.59	-	-	308	341	H
			* 12.201031	53.19	PK-U	39.3	0	-41.3	51.19	-	-	74	-22.81	22	263	H
			* 12.197827	41.51	ADR	39.3	0.29	-41.2	39.91	54	-14.09	-	-	22	263	H
			* 8.196287	55.24	PK-U	36	0	-44	47.24	-	-	74	-26.76	148	251	V
			* 8.216389	43.59	ADR	36	0.29	-44	35.89	54	-18.11	-	-	148	251	V
			* 12.230324	53.27	PK-U	39.3	0	-41.2	51.37	-	-	74	-22.63	116	104	V
			* 12.231128	41.55	ADR	39.3	0.29	-41.2	39.95	54	-14.05	-	-	116	104	V
			3.047065	58.45	PK-U	33.4	0	-47.4	44.45	-	-	88.2	-43.75	2	193	V
			3.049265	46.54	ADR	33.4	0.29	-47.4	32.84	68.2	-35.36	-	-	135	125	H
			3.058913	58.35	PK-U	33.4	0	-47.41	44.34	-	-	88.2	-43.86	135	125	H
			3.061757	46.52	ADR	33.4	0.29	-47.4	32.82	68.2	-35.38	-	-	2	193	V
			* 8.163475	55.34	PK-U	36	0	-43.95	47.39	-	-	74	-26.61	192	383	H
			* 8.142821	43.66	ADR	36	0.29	-43.7	36.26	54	-17.74	-	-	192	383	H
			* 12.540416	53.36	PK-U	39.2	0	-41.5	51.06	-	-	74	-22.94	283	142	H
			* 12.534325	41.17	ADR	39.2	0.29	-41.57	39.1	54	-14.9	-	-	283	142	H
			* 8.146085	54.97	PK-U	36	0	-43.7	47.27	-	-	74	-26.73	48	278	V
	6265	6 + 5	* 8.128862	43.59	ADR	36	0.29	-43.71	36.18	54	-17.82	-	-	48	278	V
			* 12.537613	53.03	PK-U	39.2	0	-41.5	50.73	-	-	74	-23.27	121	167	V
			* 12.531817	41.01	ADR	39.2	0.29	-41.58	38.93	54	-15.07	-	-	121	167	V
			3.114992	46.9	ADR	33.3	0.29	-47.3	33.2	68.2	-35	-	-	260	253	V
			3.118649	47.02	ADR	33.3	0.29	-47.3	33.32	68.2	-34.88	-	-	32	330	H
			3.121587	58.24	PK-U	33.3	0	-47.14	44.4	-	-	88.2	-43.8	260	253	V
			3.131932	59.11	PK-U	33.3	0	-47.01	45.4	-	-	88.2	-42.8	32	330	H
			* 8.08106	55.43	PK-U	36	0	-43.89	47.54	-	-	74	-26.46	271	336	H
			* 8.095859	43.51	ADR	36	0.29	-43.7	36.11	54	-17.89	-	-	271	336	H
			* 8.062226	54.94	PK-U	36	0	-43.9	47.04	-	-	74	-26.96	2	155	V
			* 8.095963	43.26	ADR	36	0.29	-43.7	35.86	54	-18.14	-	-	2	155	V
			3.203142	57.78	PK-U	33.2	0	-46.49	44.49	-	-	88.2	-43.71	199	215	V
			3.205373	45.87	ADR	33.2	0.29	-46.44	32.93	68.2	-35.27	-	-	35	225	H
			3.208572	57.27	PK-U	33.2	0	-46.5	43.97	-	-	88.2	-44.23	35	225	H
			3.217336	46.03	ADR	33.2	0.29	-46.67	32.86	68.2	-35.34	-	-	199	215	V
			12.843726	53.31	PK-U	39.3	0	-41.4	51.21	-	-	88.2	-36.99	114	287	V
	6420	6 + 5	12.848685	41.69	ADR	39.3	0.29	-41.44	39.85	68.2	-28.35	-	-	114	287	V
			12.850613	53.36	PK-U	39.3	0	-41.44	51.22	-	-	88.2	-36.98	15	178	H
			12.856008	41.61	ADR	39.3	0.29	-41.5	39.71	68.2	-28.49	-	-	15	178	H
			3.253067	58.56	PK-U	33.2	0	-45.2	46.56	-	-	88.2	-41.64	0	200	H
			3.253112	46.83	ADR	33.2	0.16	-45.2	34.99	68.2	-33.21	-	-	0	200	H
			3.256386	58.71	PK-U	33.1	0	-45.2	46.61	-	-	88.2	-41.59	0	101	V
			3.253829	46.92	ADR	33.2	0.16	-45.2	35.08	68.2	-33.12	-	-	0	101	V
			* 10.754258	57.04	PK-U	37.6	0	-42.37	52.27	-	-	74	-21.73	0	200	H
			* 10.754166	45.43	ADR	37.6	0.16	-42.38	40.81	54	-13.19	-	-	0	200	H
			* 15.908978	56.49	PK-U	40.7	0	-43	54.19	-	-	74	-19.81	0	200	H
			* 15.906713	45.1	ADR	40.7	0.16	-43.03	42.93	54	-11.07	-	-	0	200	H
			* 10.753476	57.8	PK-U	37.6	0	-42.4	53	-	-	74	-21	0	200	V
			* 10.752614	45.51	ADR	37.6	0.16	-42.4	40.87	54	-13.13	-	-	0	200	V
			* 15.906834	56.78	PK-U	40.7	0	-43.02	54.46	-	-	74	-19.54	0	200	V
			* 15.90857	45.14	ADR	40.7	0.16	-43.09	42.92	54	-11.09	-	-	0	200	V
HDRPL8	6109	6 + 5	2.855899	60.13	PK-U	32	0	-49.59	42.54	-	-	74	-31.46	1	101	H
			2.855998	48.74	ADR	32	0.16	-49.59	31.31	54	-22.69	-	-	1	101	V
			2.856893	48.57	ADR	32	0.16	-49.57	31.16	54	-22.84	-	-	1	101	H
			2.856998	60.35	PK-U	32	0	-49.57	42.78	-	-	74	-31.22	1	101	V
			9.599907	46.47	ADR	36.6	0.16	-46.31	36.92	68.2	-31.28	-	-	1	200	V
			9.601466	57.64	PK-U	36.6	0	-46.53	47.71	-	-	88.2	-40.49	1	200	V
			9.603269	58.23	PK-U	36.6	0	-46.56	48.27	-	-	88.2	-39.93	1	200	H
			9.603615	46.43	ADR	36.6	0.16	-46.58	36.59	68.2	-31.59	-	-	1	200	H
			12.702324	44.49	ADR	39.2	0.16	-44.32	39.53	68.2	-28.67	-	-	1	200	H
			12.702417	56.23	PK-U	39.2	0	-44.32	51.11	-	-	88.2	-37.09	1	200	V
			12.703754	44.61	ADR	39.2	0.16	-44.3	39.67	68.2	-28.53	-	-	1	200	V
			12.704048	56.51	PK-U	39.2	0	-44.3	51.41	-	-	88.2	-36.79	1	200	H
	6265	6 + 5	2.740444	59.97	PK-U	32.4	0	-49.74	42.63	-	-	74	-31.37	0	101	H
			2.742213	48.71	ADR	32.4	0.16	-49.71	31.56	54	-22.44	-	-	0	101	V
			2.742231	60.44	PK-U	32.4	0	-49.71	43.13	-	-	74	-30.87	0	101	V
			2.743124	48.24	ADR	32.4	0.16	-49.72	31.08	54	-22.92	-	-	0	101	H
			10.622056	45.39	ADR	37.5	0.16	-45.92	37.13	54	-16.87	-	-	0	101	H
			10.624773	56.99	PK-U	37.5	0	-45.91	48.58	-	-	74	-25.42	0	101	H
			10.625214	56.64	PK-U	37.5	0	-45.91	48.23	-	-	74	-25.77	0	200	V
			10.625444	45.22	ADR	37.5	0.16	-45.88	37	54	-17	-	-	0	200	V
			14.812307	56.71	PK-U	39.7	0	-44.01	52.4	-	-	88.2	-35.8	0	101	H
			14.812819	45.43	ADR	39.7	0.16	-44.02	41.27	68.2	-26.93	-	-	0	101	H
			14.816442	56.89	PK-U	39.7	0	-44.14	52.45	-	-	88.2	-35.75	0	200	V
			14.817983	45.61	ADR	39.7	0.16	-44.18	41.29	68.2	-26.91	-	-	0	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL / 6106MHz)

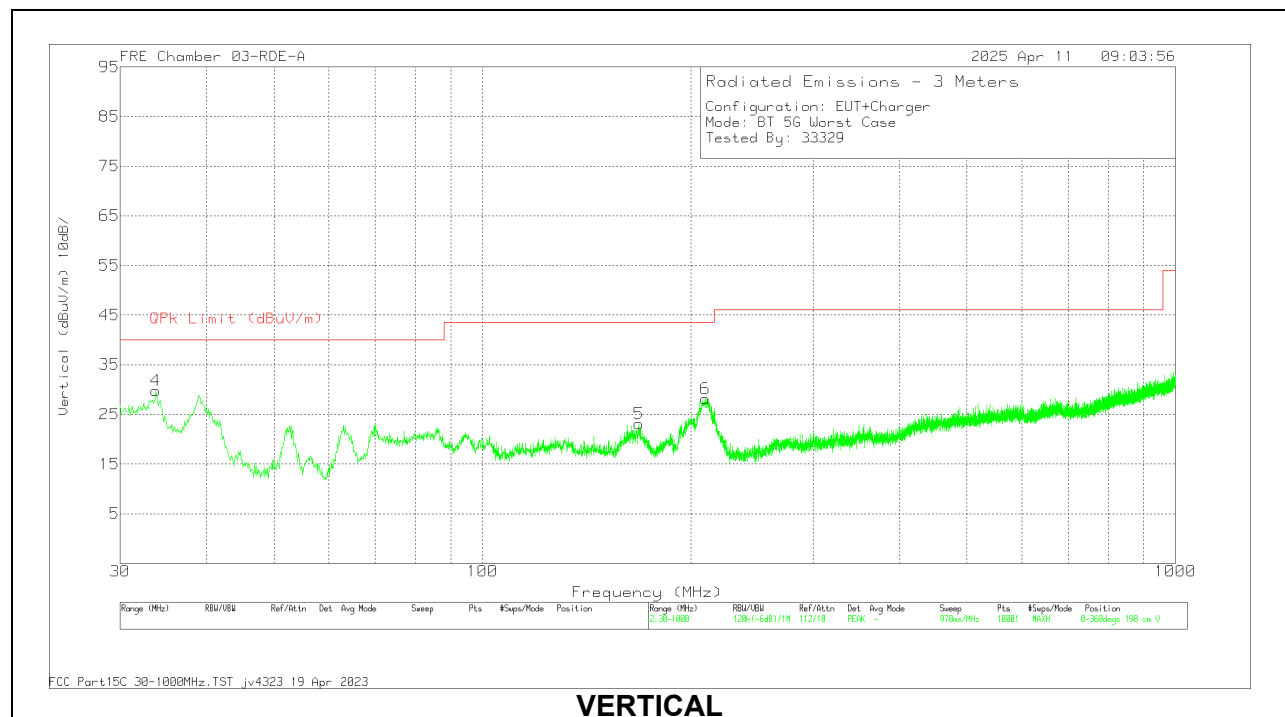
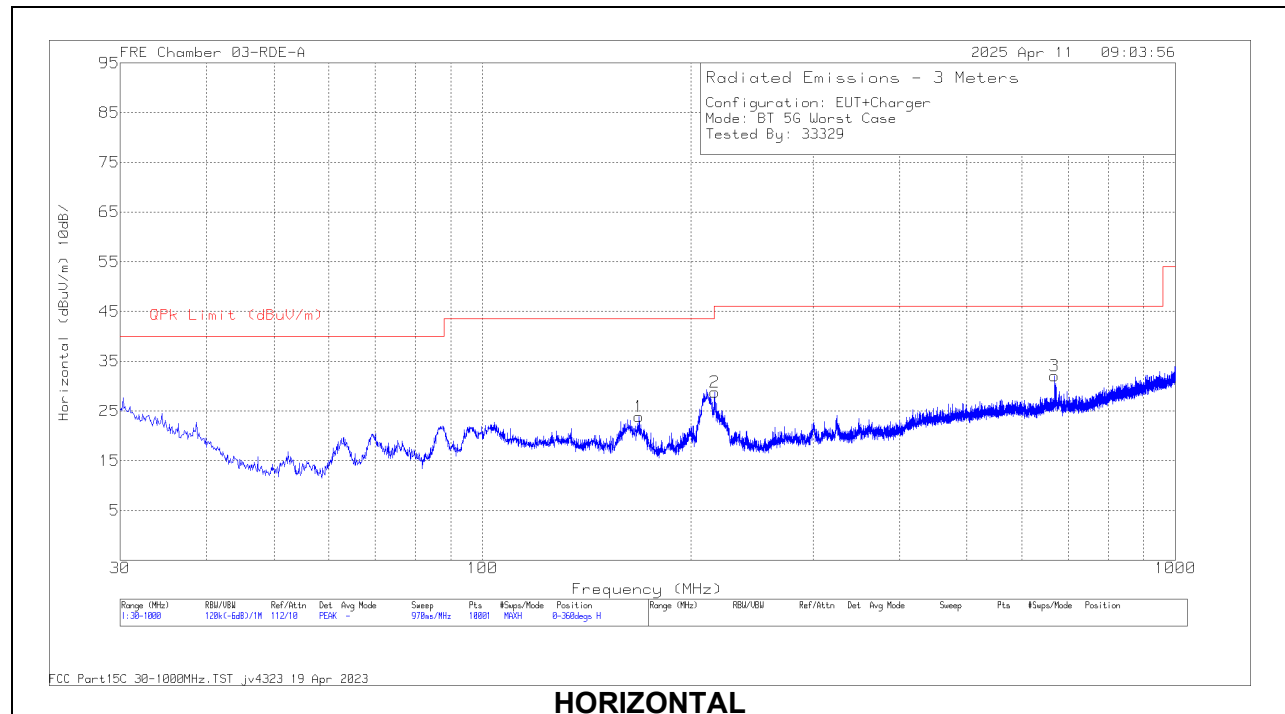
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 8.118981	54.97	PK-U	36	0	-43.8	47.17	-	-	74	-26.83	184	277	H
* 8.09402	43.25	ADR	36	1.16	-43.8	36.61	54	-17.39	-	-	184	277	H
* 12.192231	53.17	PK-U	39.3	0	-41.12	51.35	-	-	74	-22.65	225	231	H
* 12.194879	41.36	ADR	39.3	1.16	-41.11	40.71	54	-13.29	-	-	225	231	H
* 8.115586	55.74	PK-U	36	0	-43.8	47.94	-	-	74	-26.06	155	377	V
* 8.096884	43.55	ADR	36	1.16	-43.7	37.01	54	-16.99	-	-	155	377	V
* 12.20513	52.64	PK-U	39.3	0	-41.1	50.84	-	-	74	-23.16	293	176	V
* 12.199755	41.57	ADR	39.3	1.16	-41.22	40.81	54	-13.19	-	-	293	176	V
3.053687	46.56	ADR	33.4	1.16	-47.4	33.72	68.2	-34.48	-	-	172	150	V
3.053793	58.51	PK-U	33.4	0	-47.4	44.51	-	-	88.2	-43.69	236	145	H
3.054389	46.53	ADR	33.4	1.16	-47.4	33.69	68.2	-34.51	-	-	236	145	H
3.062886	58.47	PK-U	33.4	0	-47.4	44.47	-	-	88.2	-43.73	172	150	V

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2. WORST CASE BELOW 1 GHz – HIGH POWER

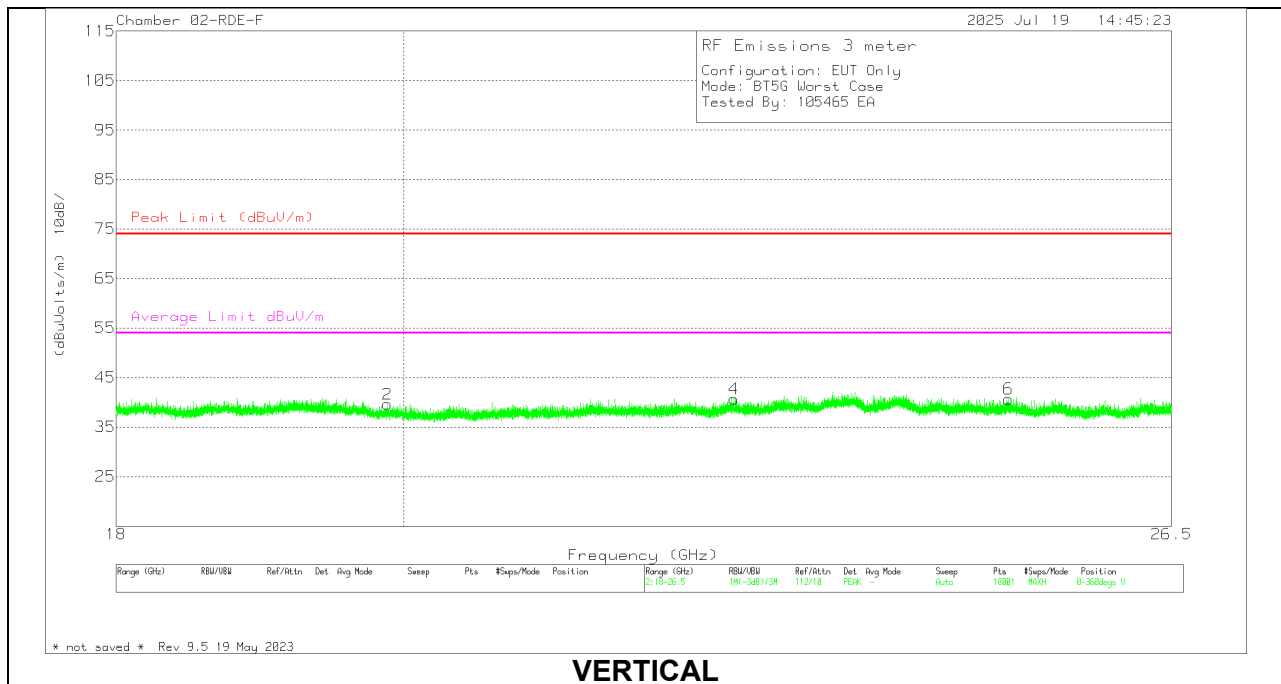
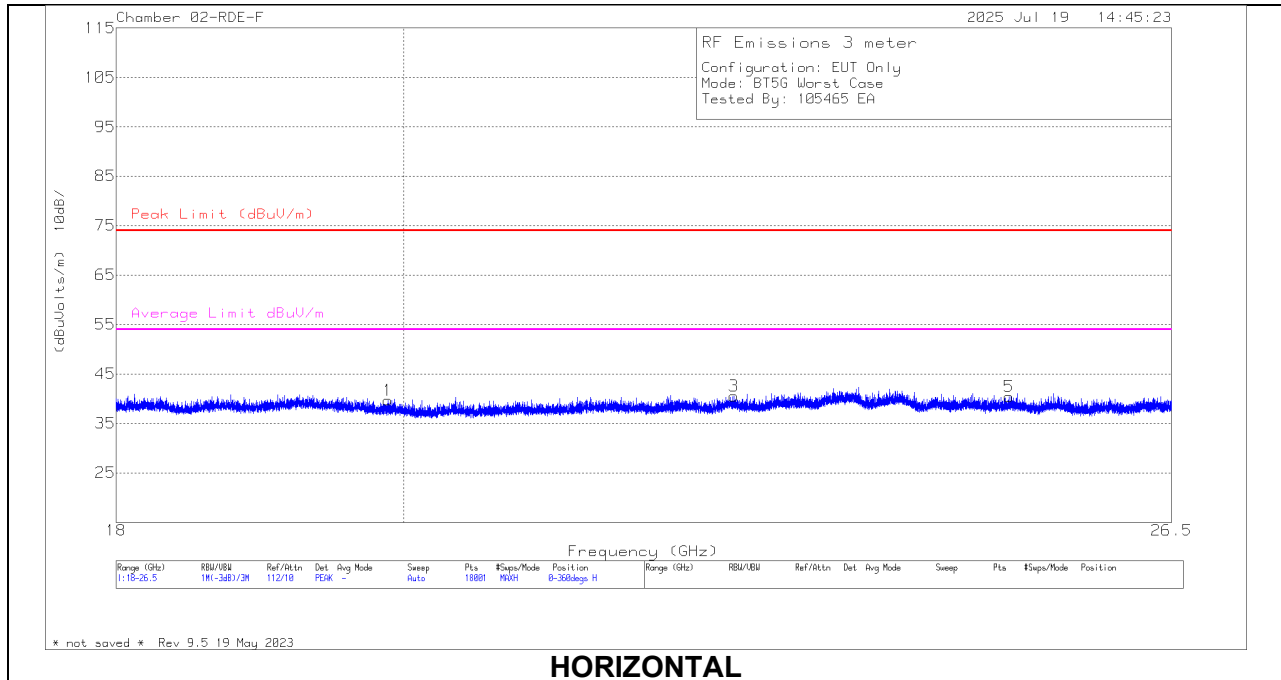


Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80813 ACF (dB/m)	CBL AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 168.077	25.62	Qp	18	-29.8	13.82	43.52	-29.7	195	127	H
2	215.828	34.94	Qp	16.4	-29.5	21.84	43.52	-21.68	48	122	H
3	669.087	20.23	Qp	25.5	-27.4	18.33	46.02	-27.69	119	327	H
4	33.8679	31.48	Qp	24.1	-31.1	24.48	40	-15.52	87	108	V
5	* 168.474	23.65	Qp	18	-29.8	11.85	43.52	-31.67	46	122	V
6	210.015	35	Qp	16.2	-29.8	21.4	43.52	-22.12	165	105	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

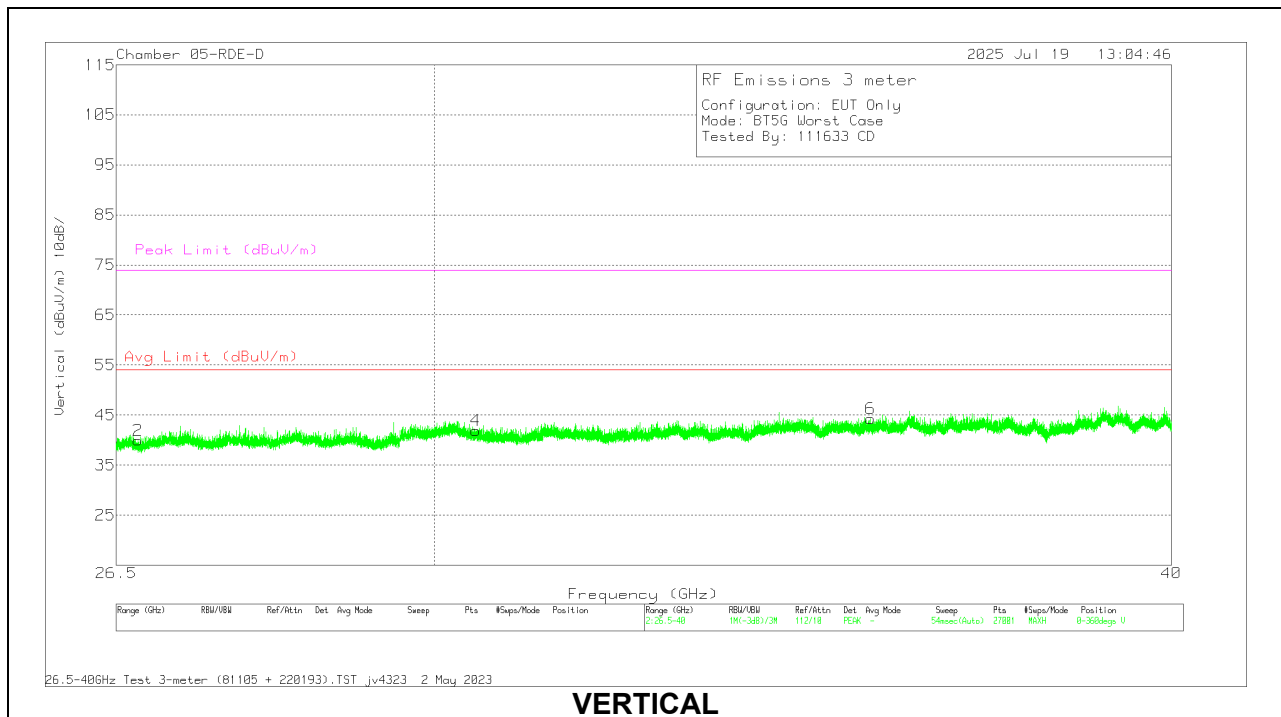
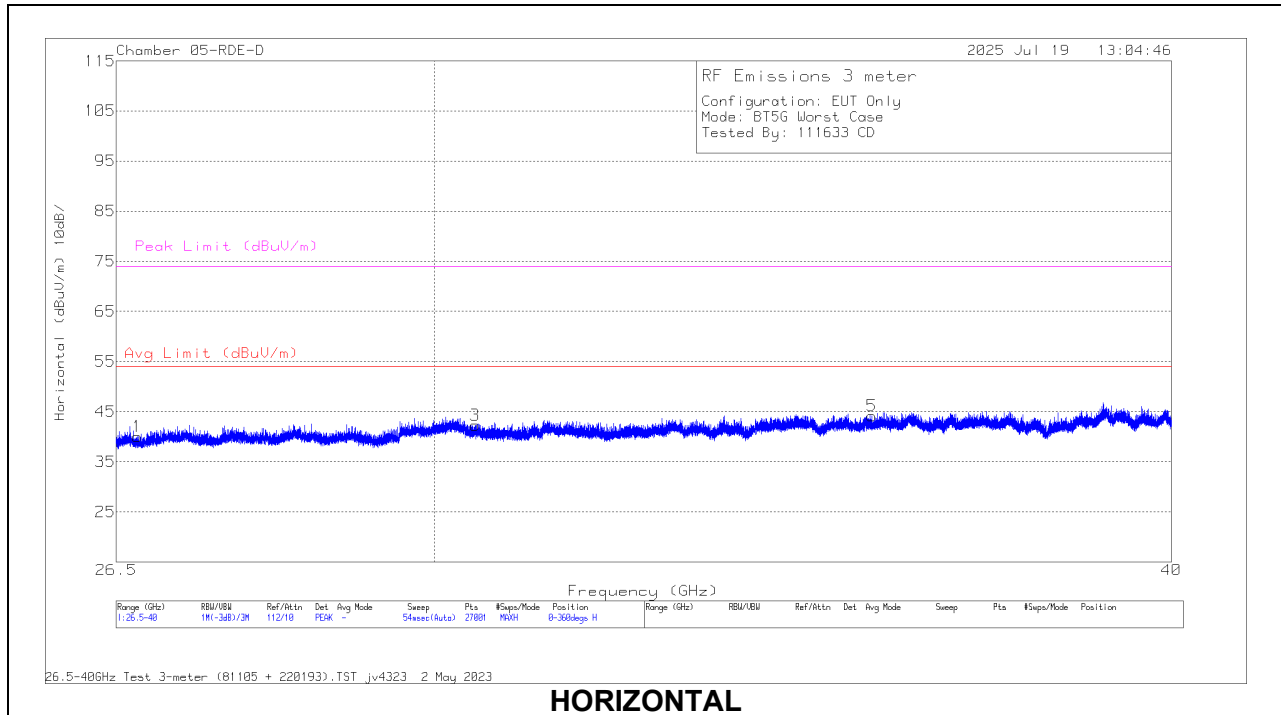
11.3. WORST CASE 18-26 GHz – HIGH POWER

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81139 ACF (dB/m)	CBL/AMP (dB)	Cbl (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.886999	55.52	Pk	33.1	-62.4	13.5	39.72	74	-34.28	-	-	0-360	200	H
3	22.572053	55.02	Pk	33.6	-62.5	14.4	40.52	74	-33.48	-	-	0-360	200	H
5	24.969997	53.59	Pk	34.3	-62.8	15.3	40.39	74	-33.61	-	-	0-360	200	H
2	19.881332	55.4	Pk	33.1	-62.4	13.5	39.6	74	-34.4	-	-	0-360	200	V
4	22.572053	55.16	Pk	33.6	-62.5	14.4	40.66	74	-33.34	-	-	0-360	200	V
6	24.962913	53.92	Pk	34.3	-62.8	15.3	40.72	74	-33.28	-	-	0-360	200	V

Pk - Peak detector

11.4. WORST CASE 26-40 GHz – HIGH POWER



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81105 ACF (dB/m)	CBL/AMP (dB)	CBL AMP (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	26.7215	56.63	Pk	35.6	-68	15.8	40.03	-	-	74	-33.97	0-360	101	H
2	26.7235	56.56	Pk	35.6	-68	15.8	39.96	-	-	74	-34.04	0-360	200	V
3	30.487	52.29	Pk	36.3	-63.6	17.3	42.29	-	-	74	-31.71	0-360	200	H
4	30.4885	51.93	Pk	36.3	-63.6	17.3	41.93	-	-	74	-32.07	0-360	200	V
6	35.57	54.49	Pk	37.2	-66.2	18.8	44.29	-	-	74	-29.71	0-360	101	V
5	35.588	54.49	Pk	37.3	-66.3	18.7	44.19	-	-	74	-29.81	0-360	101	H

Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

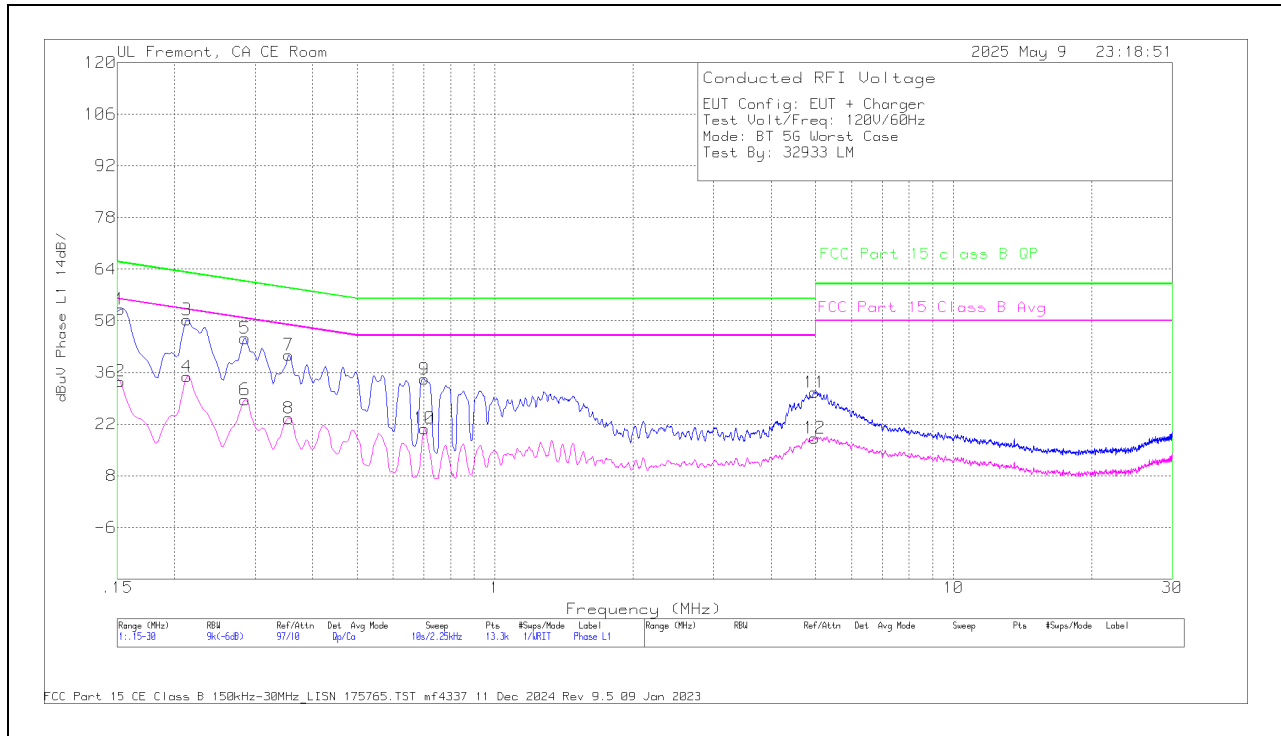
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

12.1. EUT WITH AC ADAPTER

LINE 1 RESULTS



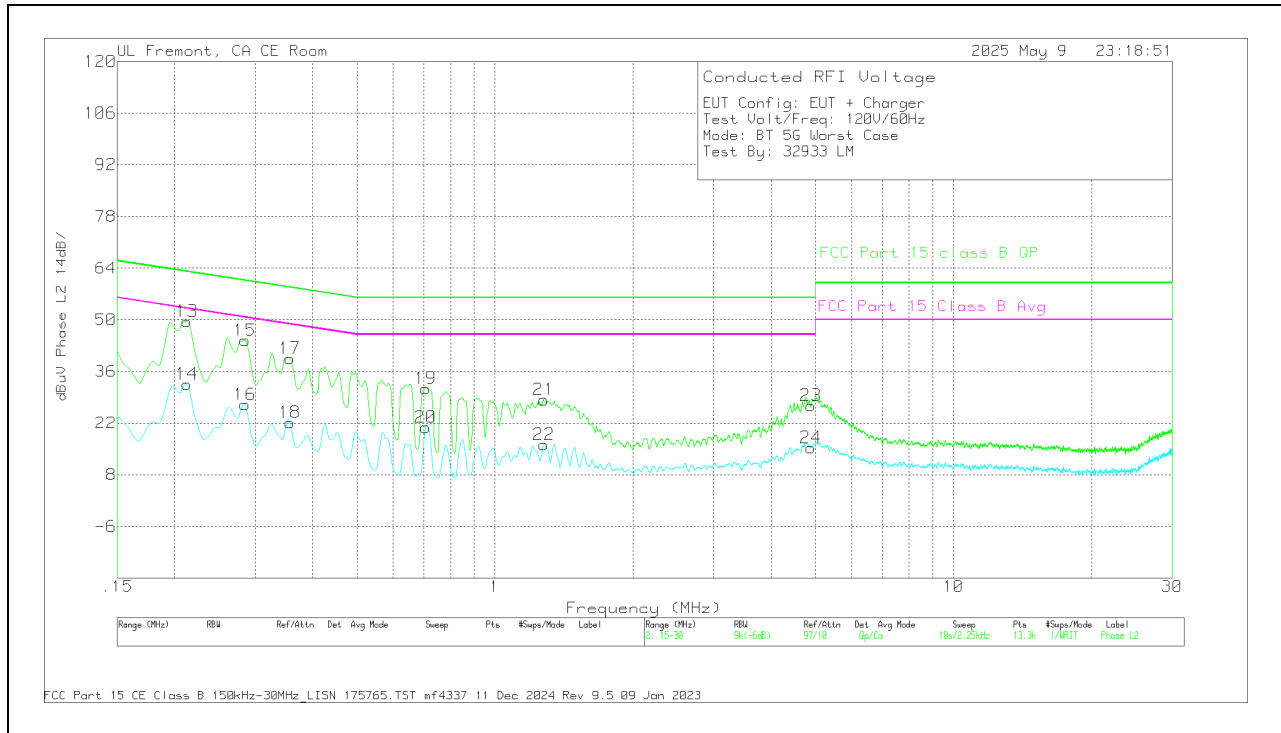
Trace Markers

Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1523	14.51	Ca	.5	.1	8.5	10	33.61	55.88	-22.27	-	-
4	.213	16.58	Ca	0	0	8.3	10	34.88	53.09	-18.21	-	-
6	.285	10.51	Ca	0	0	8.1	10	28.61	50.67	-22.06	-	-
8	.3548	5.56	Ca	-4	0	8.4	10	23.56	48.85	-25.29	-	-
10	.7013	2.42	Ca	.2	0	8.2	10	20.82	46	-25.18	-	-
12	4.9785	-19	Ca	.1	0	8.3	10	18.21	46	-27.79	-	-
1	.1523	34.05	Qp	.5	.1	8.5	10	53.15	-	-	65.88	-12.73
3	.213	31.95	Qp	0	0	8.3	10	50.25	-	-	63.09	-12.84
5	.285	27.12	Qp	0	0	8.1	10	45.22	-	-	60.67	-15.45
7	.3548	22.71	Qp	-4	0	8.4	10	40.71	-	-	58.85	-18.14
9	.7013	15.79	Qp	.2	0	8.2	10	34.19	-	-	56	-21.81
11	4.9785	12.19	Qp	.1	0	8.3	10	30.59	-	-	56	-25.41

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Trace Markers

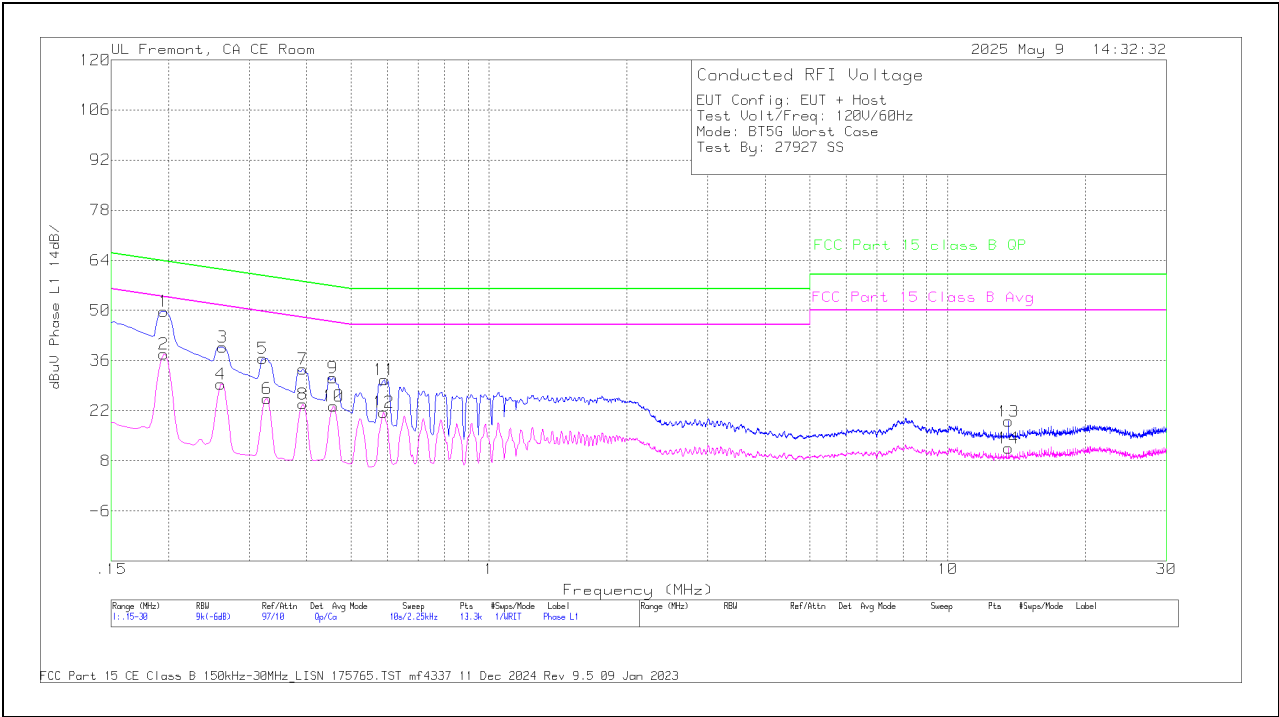
Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.213	14.26	Ca	0	0	8.3	10	32.56	53.09	-20.53	-	-
16	.285	8.91	Ca	0	0	8.1	10	27.01	50.67	-23.66	-	-
18	.357	4.15	Ca	-4	0	8.4	10	22.15	48.8	-26.65	-	-
20	.7058	2.44	Ca	.2	0	8.2	10	20.84	46	-25.16	-	-
22	1.2773	-2.36	Ca	.1	0	8.4	10	16.14	46	-29.86	-	-
24	4.8863	-2.8	Ca	.1	0	8	10	15.3	46	-30.7	-	-
13	.213	31.27	Qp	0	0	8.3	10	49.57	-	-	63.09	-13.52
15	.285	26.31	Qp	0	0	8.1	10	44.41	-	-	60.67	-16.26
17	.357	21.5	Qp	-4	0	8.4	10	39.5	-	-	58.8	-19.3
19	.7058	12.95	Qp	.2	0	8.2	10	31.35	-	-	56	-24.65
21	1.2773	9.83	Qp	.1	0	8.4	10	28.33	-	-	56	-27.67
23	4.8863	8.62	Qp	.1	0	8	10	26.72	-	-	56	-29.28

Qp - Quasi-Peak detector

Ca - CISPR average detection

12.2. EUT WITH LAPTOP

LINE 1 RESULTS

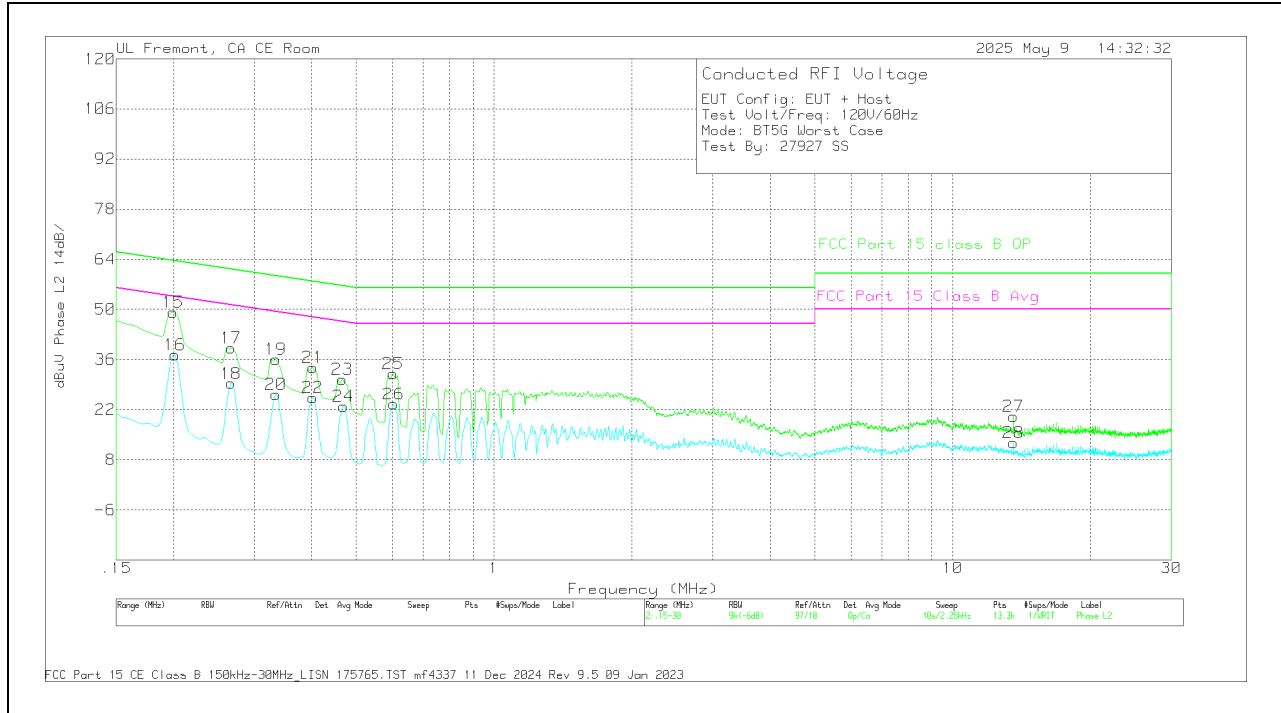


Trace Markers

Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.195	18.07	Ca	.1	.1	8.4	10	36.67	53.82	-17.15	-	-
4	.2603	10.21	Ca	-.1	0	8.2	10	28.31	51.42	-23.11	-	-
6	.3278	6.17	Ca	-.2	0	8.2	10	24.17	49.51	-25.34	-	-
8	.393	4.93	Ca	-.5	0	8.3	10	22.73	48	-25.27	-	-
10	.4583	3.23	Ca	.2	0	8.7	10	22.13	46.72	-24.59	-	-
12	.5888	2.49	Ca	-.2	0	8.1	10	20.39	46	-25.61	-	-
14	13.56	-8.12	Ca	.2	.1	8.2	10	10.38	50	-39.62	-	-
1	.195	30.02	Qp	.1	.1	8.4	10	48.62	-	-	63.82	-15.2
3	.2625	20.52	Qp	-.1	0	8.2	10	38.62	-	-	61.35	-22.73
5	.321	17.47	Qp	-.2	0	8.2	10	35.47	-	-	59.68	-24.21
7	.393	14.64	Qp	-.5	0	8.3	10	32.44	-	-	58	-25.56
9	.456	11.05	Qp	.2	0	8.8	10	30.05	-	-	56.77	-26.72
11	.591	11.57	Qp	-.2	0	8.1	10	29.47	-	-	56	-26.53
13	13.56	-.66	Qp	.2	.1	8.2	10	17.84	-	-	60	-42.16

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.2018	17.66	Ca	.1	0	8.4	10	36.16	53.54	-17.38	-	-
18	.267	10.17	Ca	-.1	0	8.1	10	28.17	51.21	-23.04	-	-
20	.3345	7.04	Ca	-.3	0	8.3	10	25.04	49.34	-24.3	-	-
22	.402	6.36	Ca	-.5	0	8.3	10	24.16	47.81	-23.65	-	-
24	.4695	3.21	Ca	.1	0	8.5	10	21.81	46.52	-24.71	-	-
26	.6045	4.3	Ca	-.1	0	8.2	10	22.4	46	-23.6	-	-
28	13.56	-6.91	Ca	.2	.1	8.2	10	11.59	50	-38.41	-	-
15	.1995	29.55	Qp	.1	0	8.4	10	48.05	-	-	63.63	-15.58
17	.267	20.04	Qp	-.1	0	8.1	10	38.04	-	-	61.21	-23.17
19	.3345	16.88	Qp	-.3	0	8.3	10	34.88	-	-	59.34	-24.46
21	.402	14.89	Qp	-.5	0	8.3	10	32.69	-	-	57.81	-25.12
23	.4673	10.57	Qp	.1	0	8.6	10	29.27	-	-	56.56	-27.29
25	.6023	12.85	Qp	-.1	0	8.2	10	30.95	-	-	56	-25.05
27	13.56	.5	Qp	.2	.1	8.2	10	19	-	-	60	-41

Qp - Quasi-Peak detector

Ca - CISPR average detection

13. SETUP PHOTOS

Refer to 15496278-EP1V1 FCC IC Setup_Photo for setup photos.

APPENDIX A - SPOT CHECK EVALUATION

MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3258, A3519, A3520 and A3521.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for FR2 is removed from variants and disabled/enabled cellular bands via software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3258	BCG-E8947A	579C-E8947A	-With FR2 -No B11/21 -No UL MIMO	eSIM	-
A3519	BCG-E8951A	579C-E8951A	-Without FR2 -Added B11/21 -No UL MIMO	eSIM	A3258
A3520	BCG-E8952A	579C-E8952A	-Without FR2 -No B14, B29, B71, B11/21 -No UL MIMO	eSIM+pSIM	A3258 and A3519
A3521	BCG-E8953A	579C-E8953A	-Without FR2 -No B14, B29, B71, B11/21, B53 -No UL MIMO, MSS	pSIM+pSIM	

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dB} = |V_{dB} - R_{dB}| \quad (1)$$

$$d_{dB} \leq d_{dBmax} \quad (2)$$

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where d_{dB} is deviation between the variant and the reference model, V_{dB} is variant spot check level, R_{dB} is the corresponding reference measurement level, d_{dBmax} is the maximum deviation d_{dB} allowed, and M_{dB} is the margin in dB.

SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3519

A3519 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3258	Sub Model: A3519	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E8947A IC : 579C-E8947A	FCC ID : BCG-E8951A IC : 579C-E8951A			
6VL / NB UNII-5	5.925 - 6.425 UNII-5	High Power (Ant 5)	HDT4	EIRP Power (dBm)	Fundamental	High	6.420	-3.40	-3.67	-0.27	-17.40	Note 1
		High Power (Ant 5)	XHDRPM12	EIRP Power (dBm)	Fundamental	High	6.420	-0.92	-1.20	-0.28	-14.92	Note 1
		High Power (Ant 5)	HDRPL8	EIRP Power (dBm)	Fundamental	High	6.417	2.03	2.10	0.07	-11.97	Note 1
		High Power (Ant 5)	HDRPL8	Radiated Bandedge (dBuV/m)	Low Bandedge Vert.	Low	5.791534	-47.42	-50.05	-2.63	-20.42	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3520

A3520 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3258	Sub Model: A3520	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E8947A IC : 579C-E8947A	FCC ID : BCG-E8952A IC : 579C-E8952A			
6VL / NB UNII-5	5.925 - 6.425 UNII-5	High Power (Ant 5)	HDT4	EIRP Power (dBm)	Fundamental	High	6.420	-3.40	-3.55	-0.15	-17.40	Note 1
		High Power (Ant 5)	XHDRPM12	EIRP Power (dBm)	Fundamental	High	6.420	-0.92	-1.02	-0.10	-14.92	Note 1
		High Power (Ant 5)	HDRPL8	EIRP Power (dBm)	Fundamental	High	6.417	2.03	2.09	0.06	-11.97	Note 1
		High Power (Ant 5)	HDRPL8	Radiated Bandedge (dBuV/m)	Low Bandedge Vert.	Low	5.791534	-47.42	-50.27	-2.85	-20.42	Note 1

A3520 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3519	Sub Model: A3520	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E8951A IC : 579C-E8951A	FCC ID : BCG-E8952A IC : 579C-E8952A			
6VL / NB UNII-5	5.925 - 6.425 UNII-5	High Power (TXBF)	LE2M	Radiated Bandedge (dBuV/m)	Low Bandedge Vert.	Low	5.891201	-45.47	-46.88	-1.41	-18.47	Note 1
		High Power (TXBF)	XHDRPL8	Avg RSE (dBuV/m)	1 to 18G (Horizontal)	Low	15.906713	42.93	41.70	-1.23	-11.07	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3521

A3521 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3258	Sub Model: A3521	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E8947A IC : 579C-E8947A	FCC ID : BCG-E8953A IC : 579C-E8953A			
6VL / NB UNII-5	5.925 - 6.425 UNII-5	High Power (Ant 5)	HDT4	EIRP Power (dBm)	Fundamental	High	6.420	-3.40	-3.52	-0.12	-17.40	Note 1
		High Power (Ant 5)	XHDRPM12	EIRP Power (dBm)	Fundamental	High	6.420	-0.92	-1.14	-0.22	-14.92	Note 1
		High Power (Ant 5)	HDRPL8	EIRP Power (dBm)	Fundamental	High	6.417	2.03	1.98	-0.05	-11.97	Note 1
		High Power (Ant 5)	HDRPL8	Radiated Bandedge (dBuV/m)	Low Bandedge Vert.	Low	5.791534	-47.42	-50.17	-2.75	-20.42	Note 1

A3521 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3519	Sub Model: A3521	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E8951A IC : 579C-E8951A	FCC ID : BCG-E8953A IC : 579C-E8953A			
6VL / NB UNII-5	5.925 - 6.425 UNII-5	High Power (TXBF)	LE2M	Radiated Bandedge (dBuV/m)	Low Bandedge Vert.	Low	5.891201	-45.47	-47.14	-1.67	-18.47	Note 1
		High Power (TXBF)	XHDRPL8	Avg RSE (dBuV/m)	1 to 18G (Horizontal)	Low	15.906713	42.93	41.43	-1.50	-11.07	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

END OF REPORT