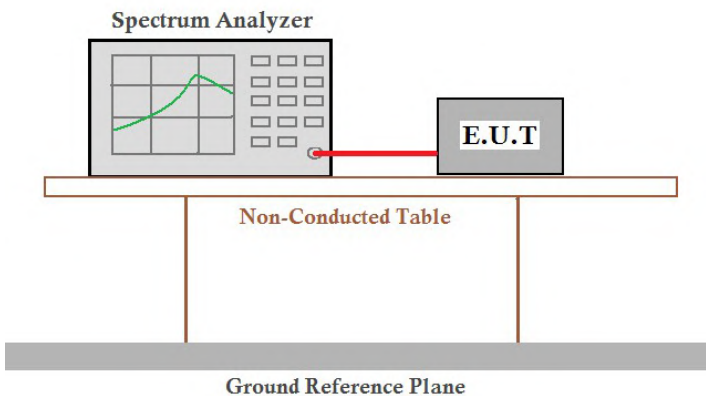


4.7 Band edge

4.7.1 Conducted test Method

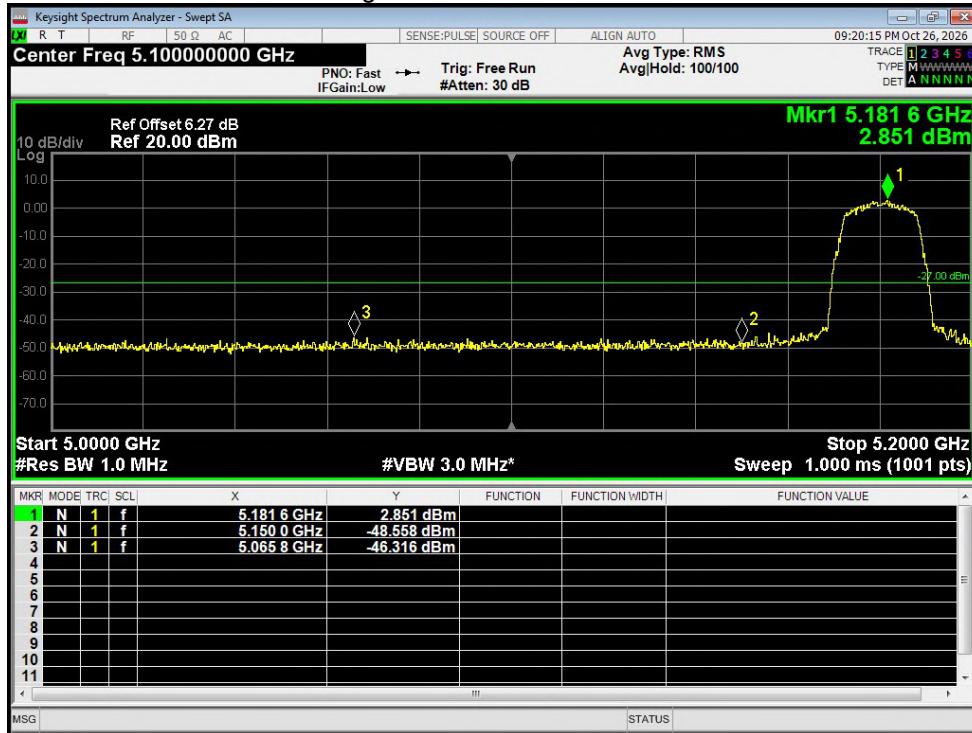
Test Requirement:	47CFR Part 15.209 and 15.205	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 §6.10.2	
Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating solely in the 5.725-5.850 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.	
Test Procedure:	1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range. 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span. 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. 5. Repeat above procedures until all measured frequencies were complete..	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 7.7V from battery	
Test results:	Pass	

Remark: Ref offset(dB) =Antenna gain(dBi) +cable loss(dB).

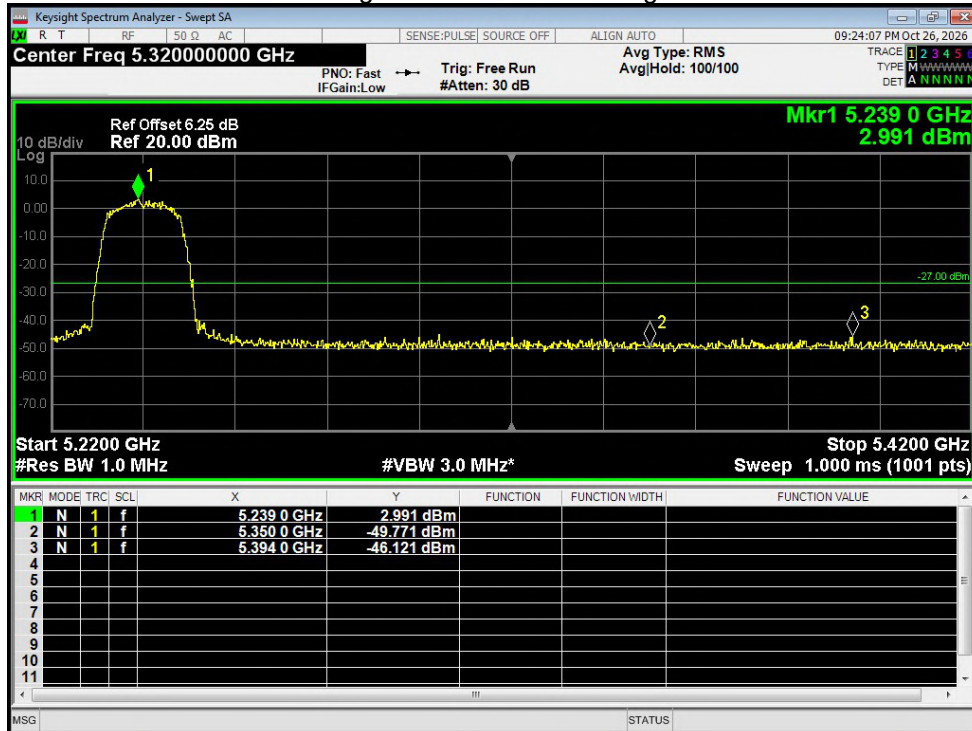


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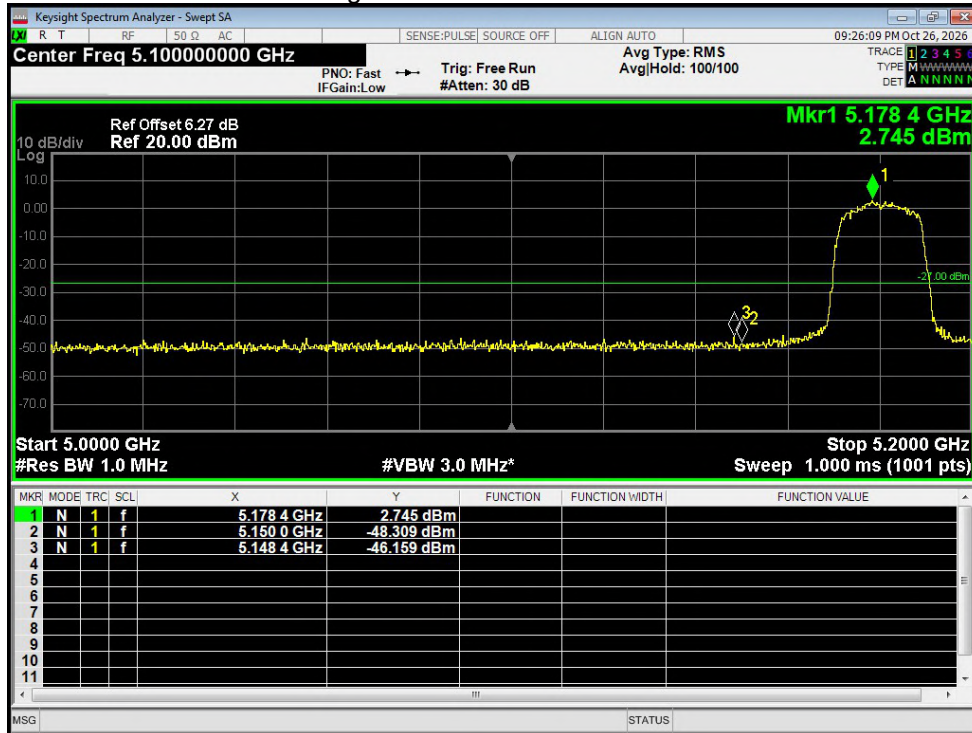
Band Edge NVNT a 5180MHz Low Ant1



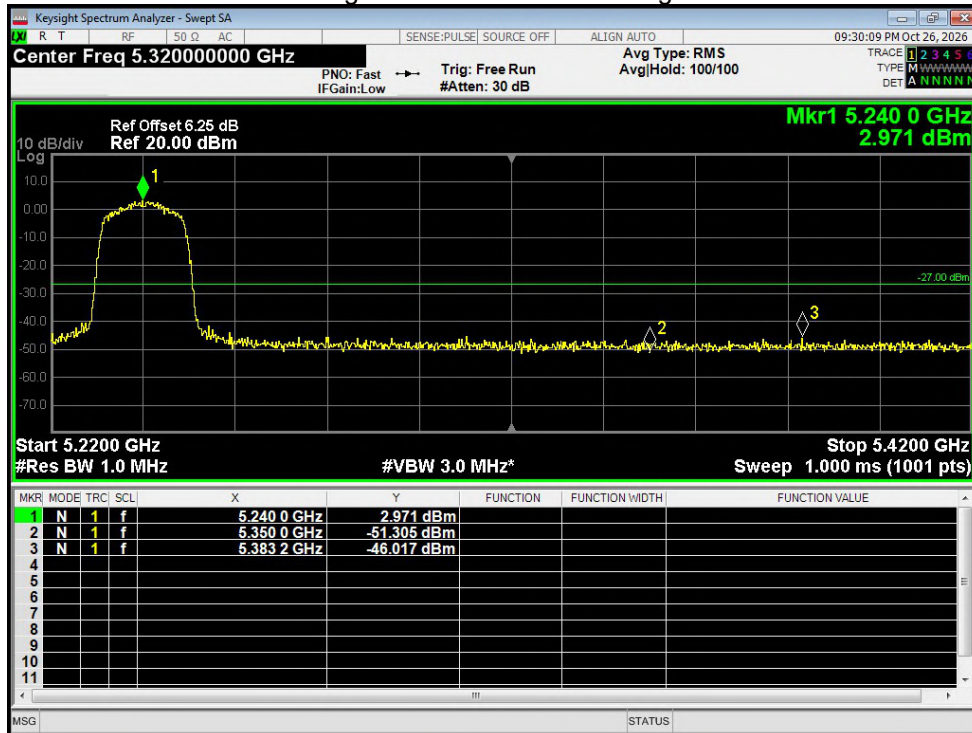
Band Edge NVNT a 5240MHz High Ant1



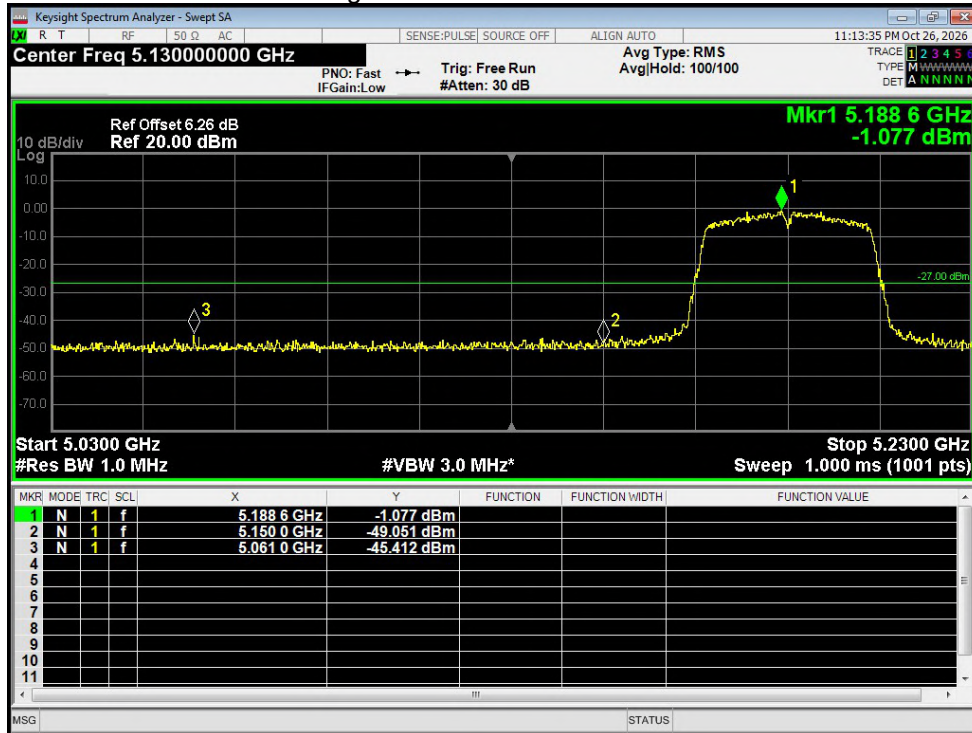
Band Edge NVNT n20 5180MHz Low Ant1



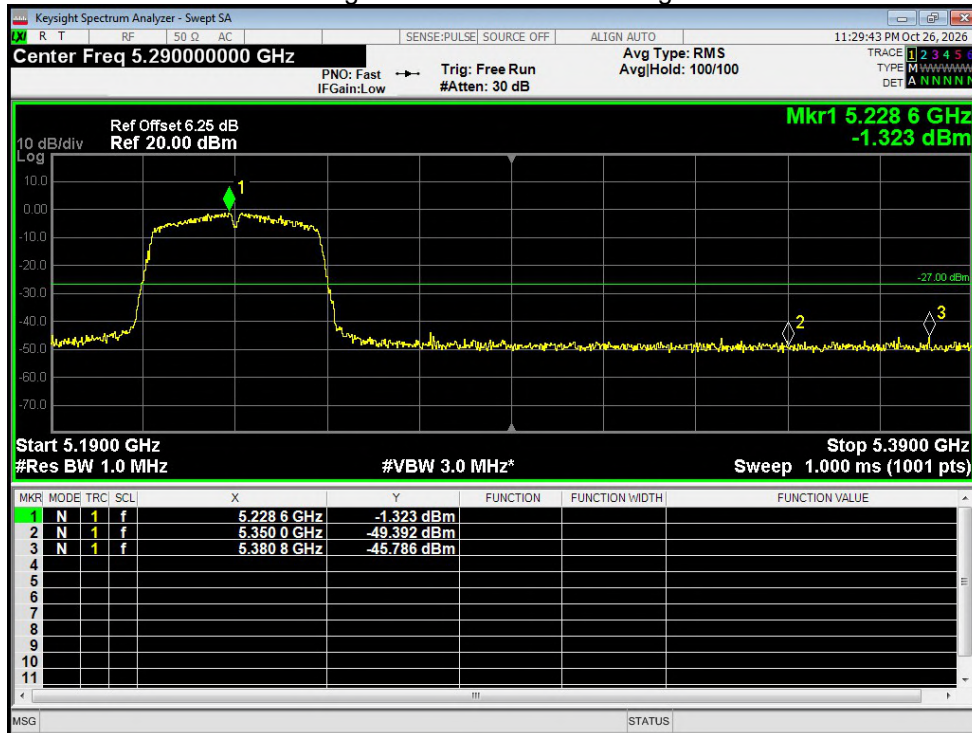
Band Edge NVNT n20 5240MHz High Ant1



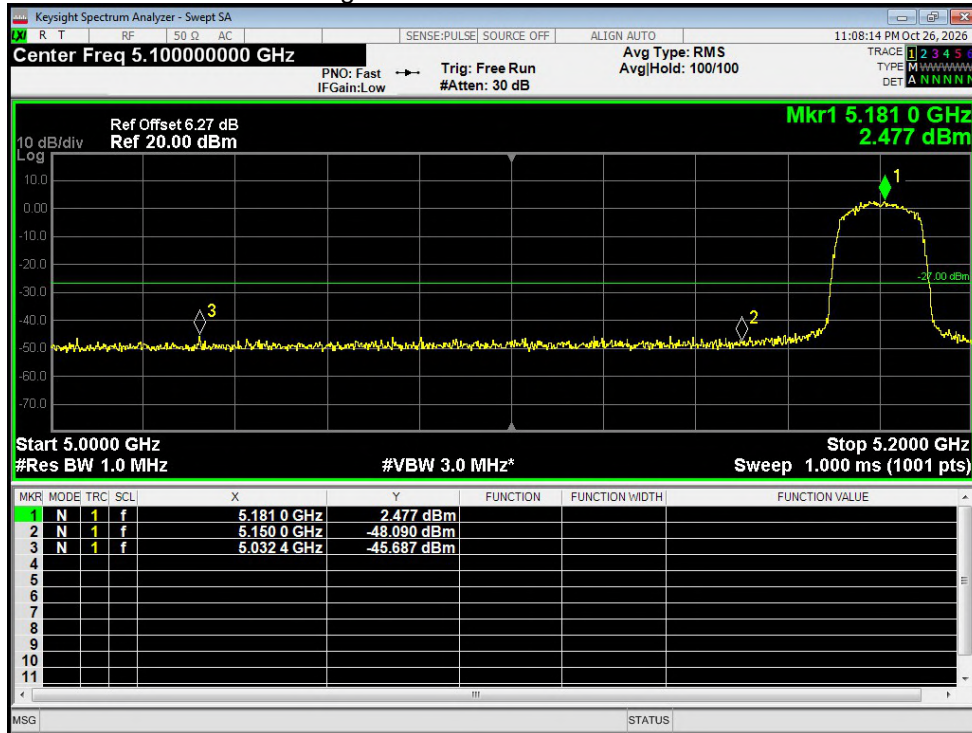
Band Edge NVNT n40 5190MHz Low Ant1



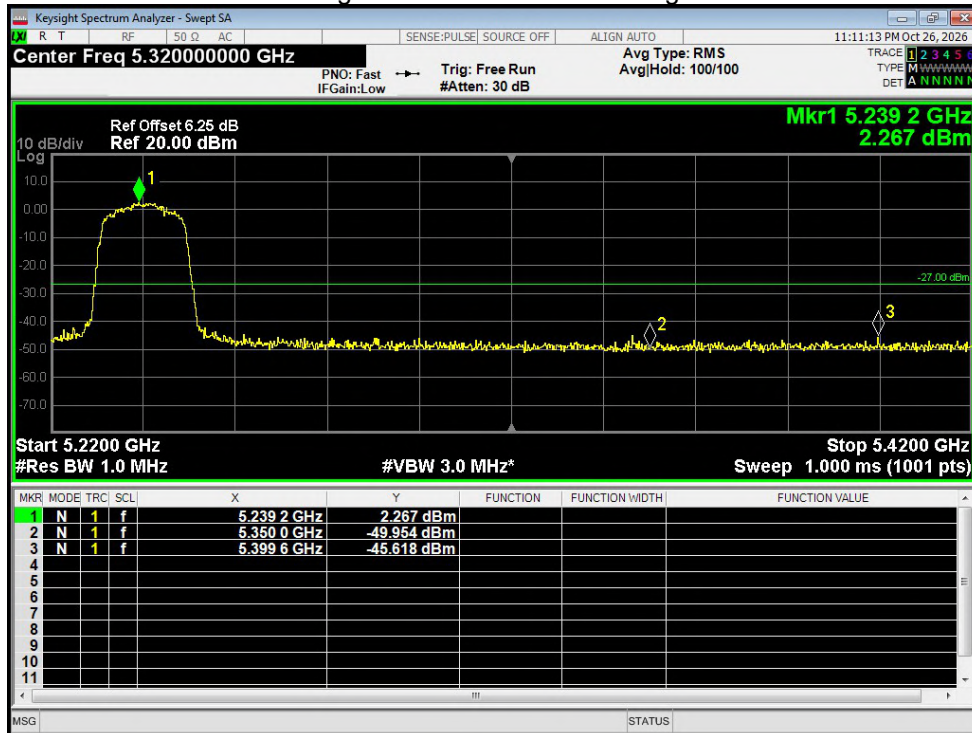
Band Edge NVNT n40 5230MHz High Ant1



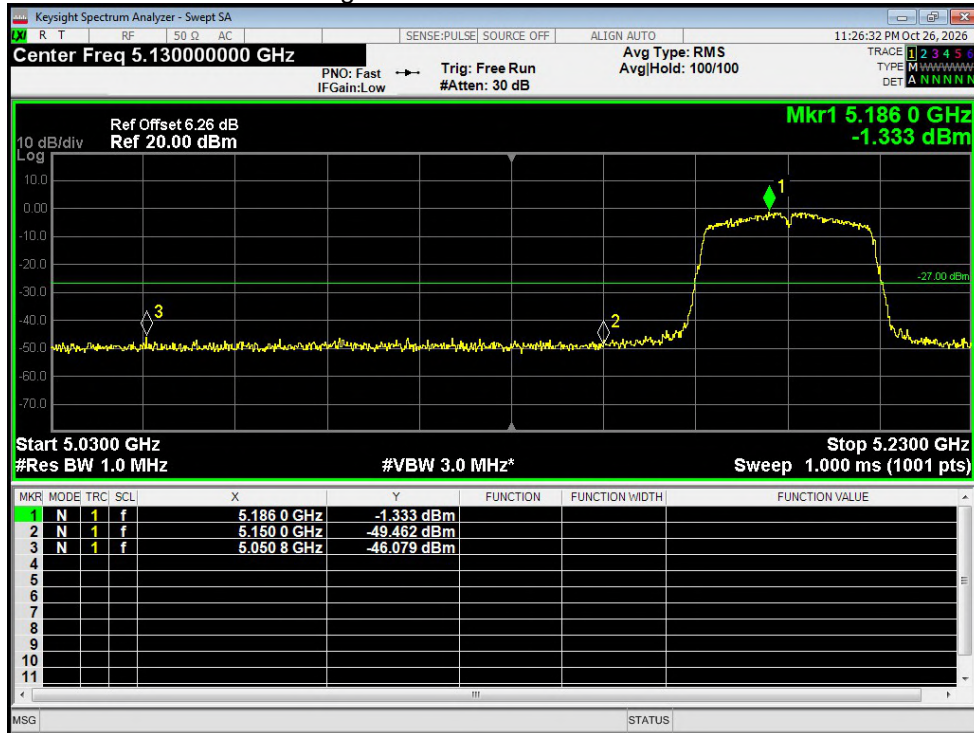
Band Edge NVNT ac20 5180MHz Low Ant1



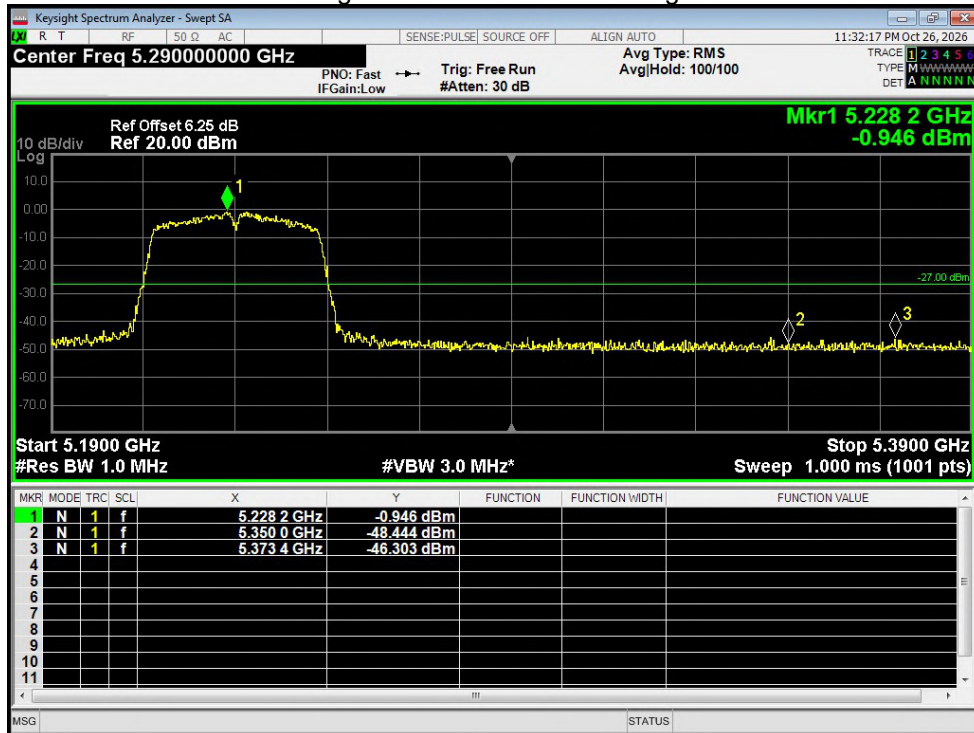
Band Edge NVNT ac20 5240MHz High Ant1



Band Edge NVNT ac40 5190MHz Low Ant1

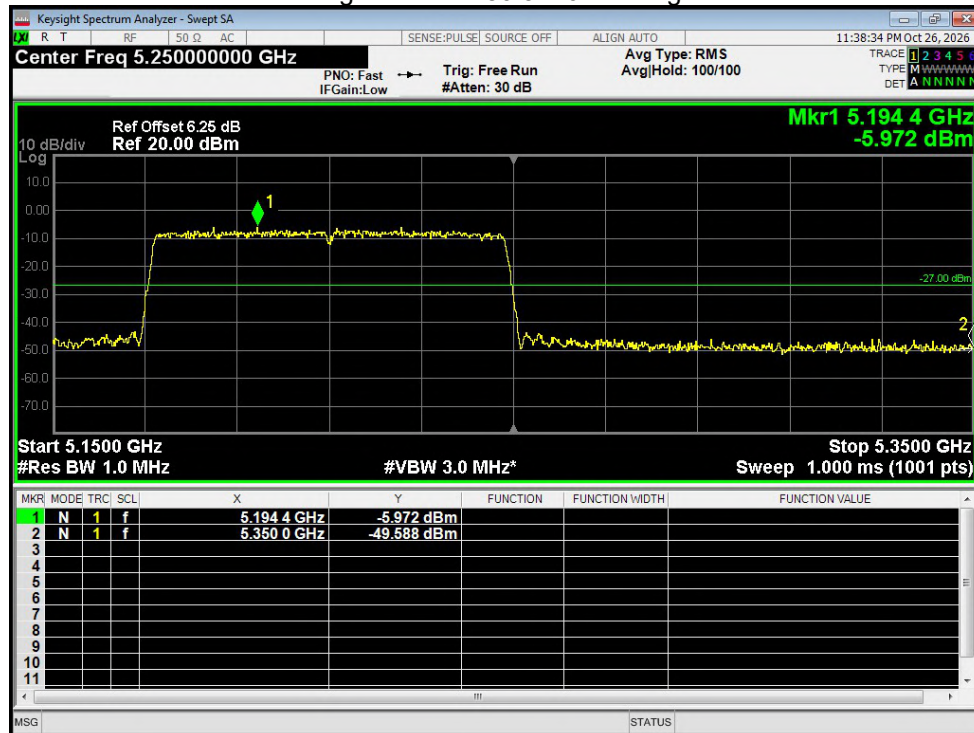


Band Edge NVNT ac40 5230MHz High Ant1





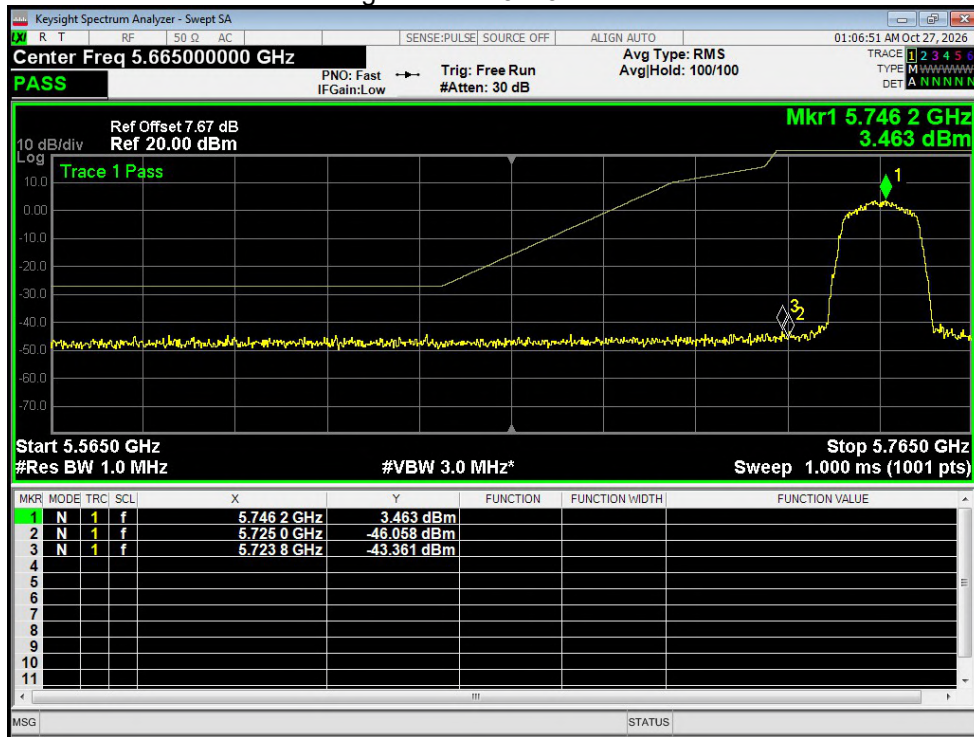
Band Edge NVNT ac80 5210MHz High Ant1



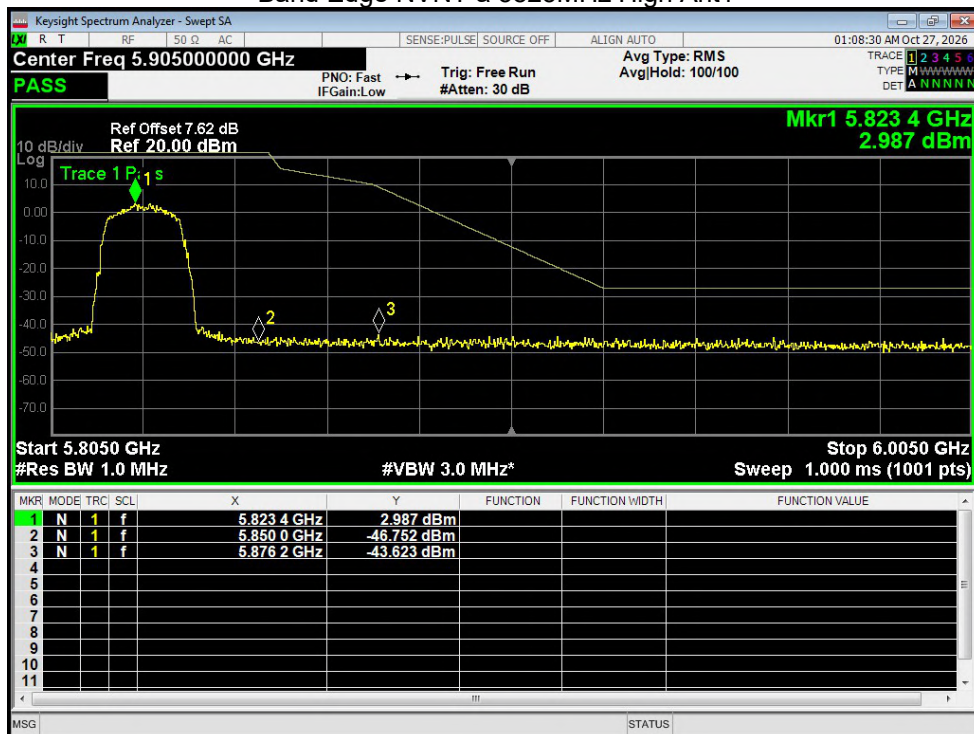


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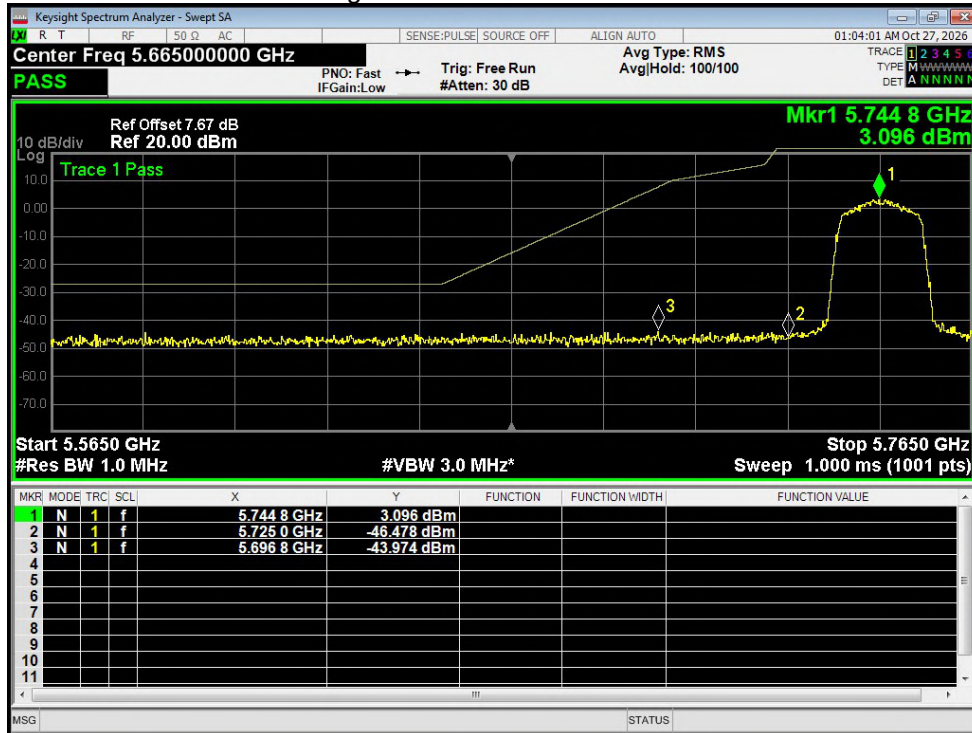
Band Edge NVNT a 5745MHz Low Ant1



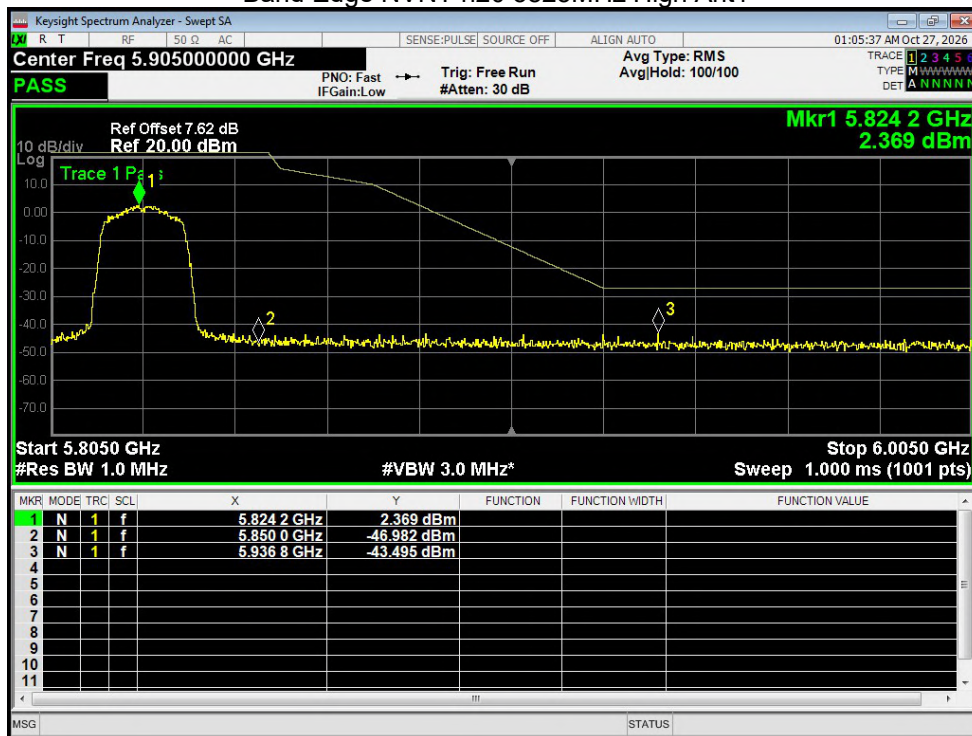
Band Edge NVNT a 5825MHz High Ant1



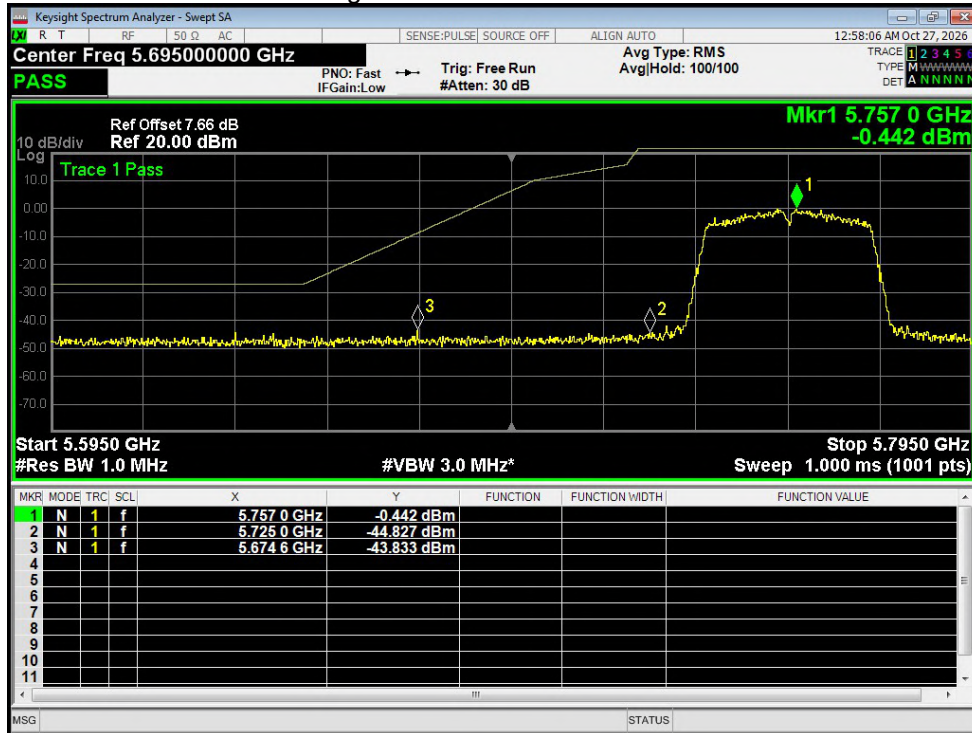
Band Edge NVNT n20 5745MHz Low Ant1



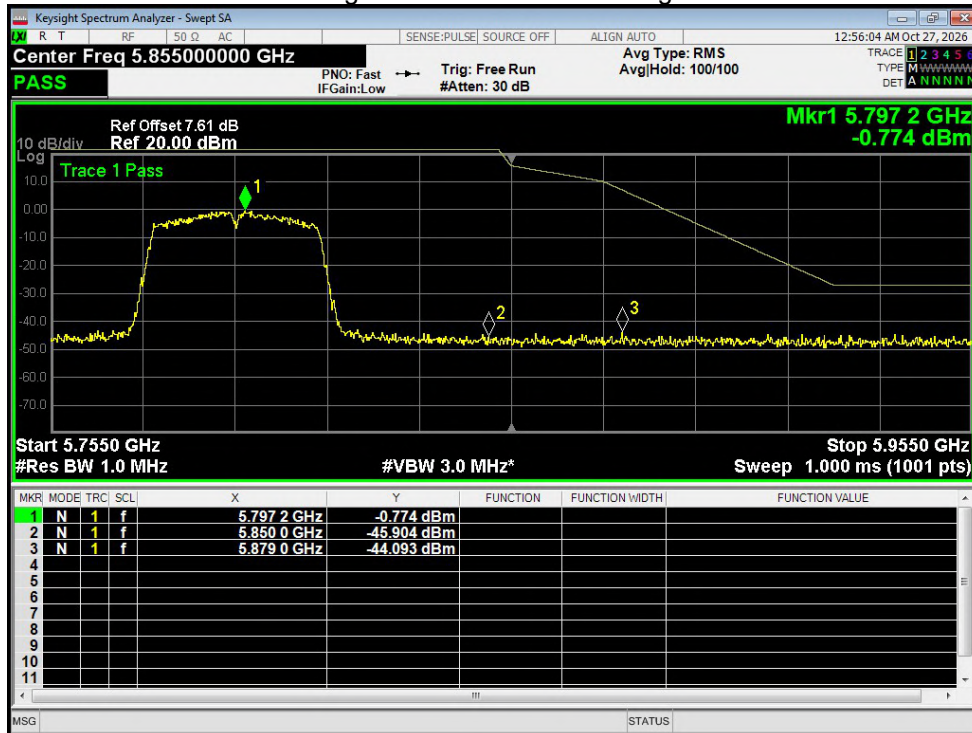
Band Edge NVNT n20 5825MHz High Ant1



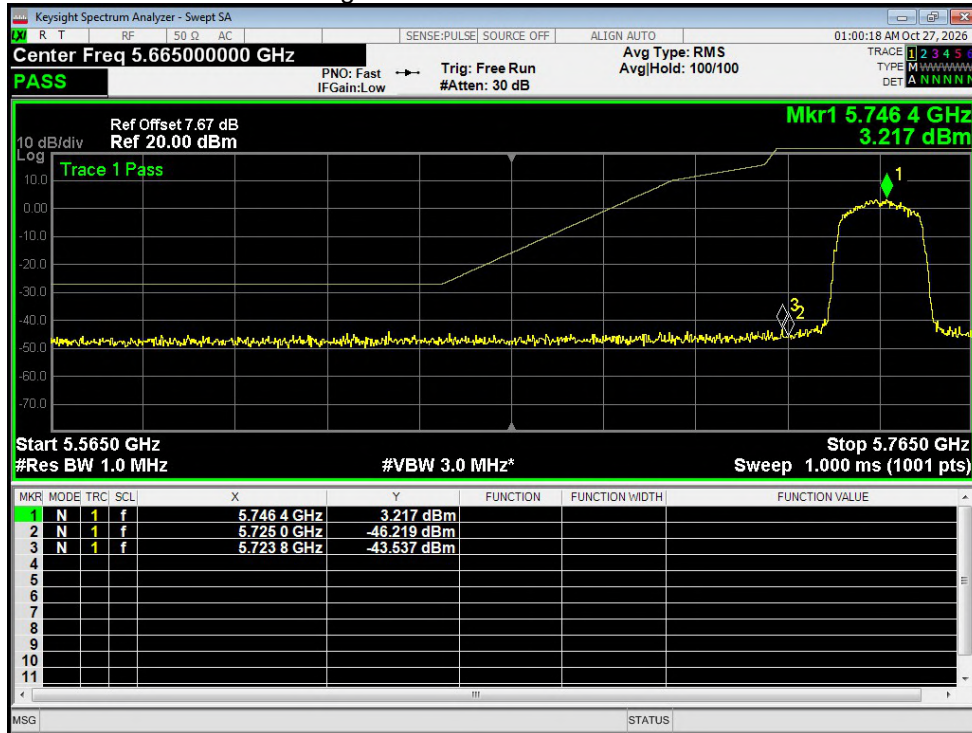
Band Edge NVNT n40 5755MHz Low Ant1



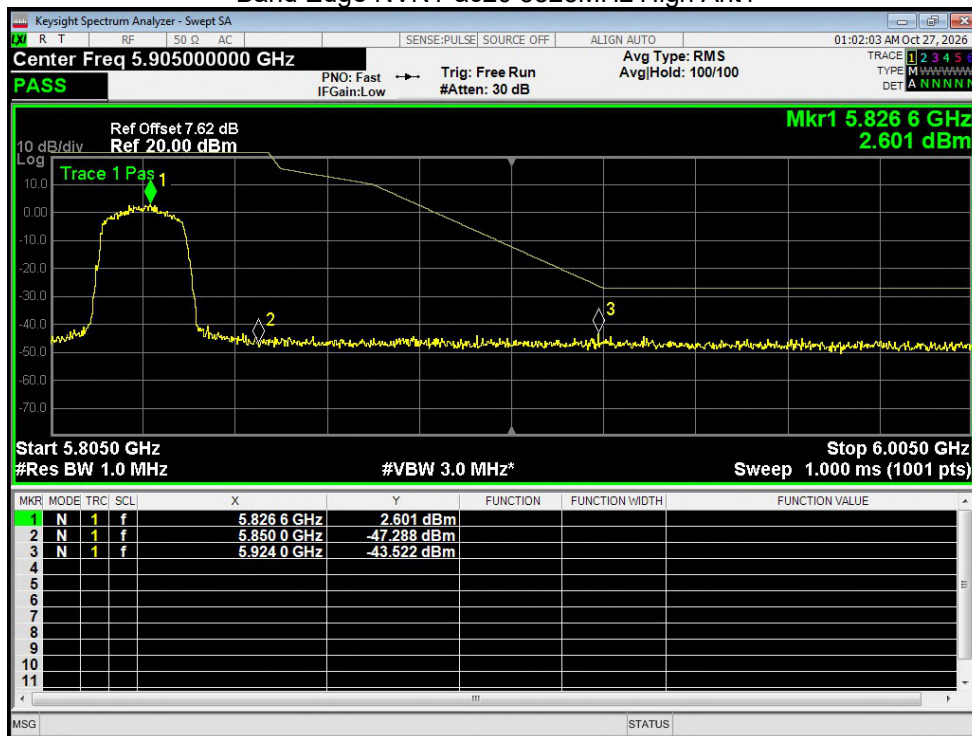
Band Edge NVNT n40 5795MHz High Ant1



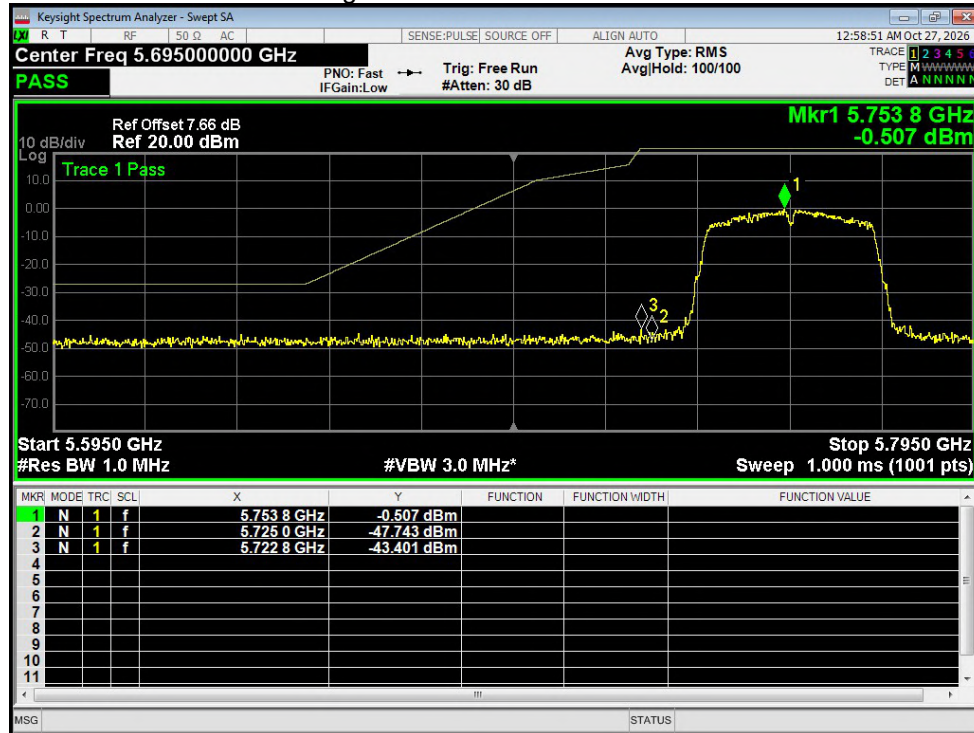
Band Edge NVNT ac20 5745MHz Low Ant1



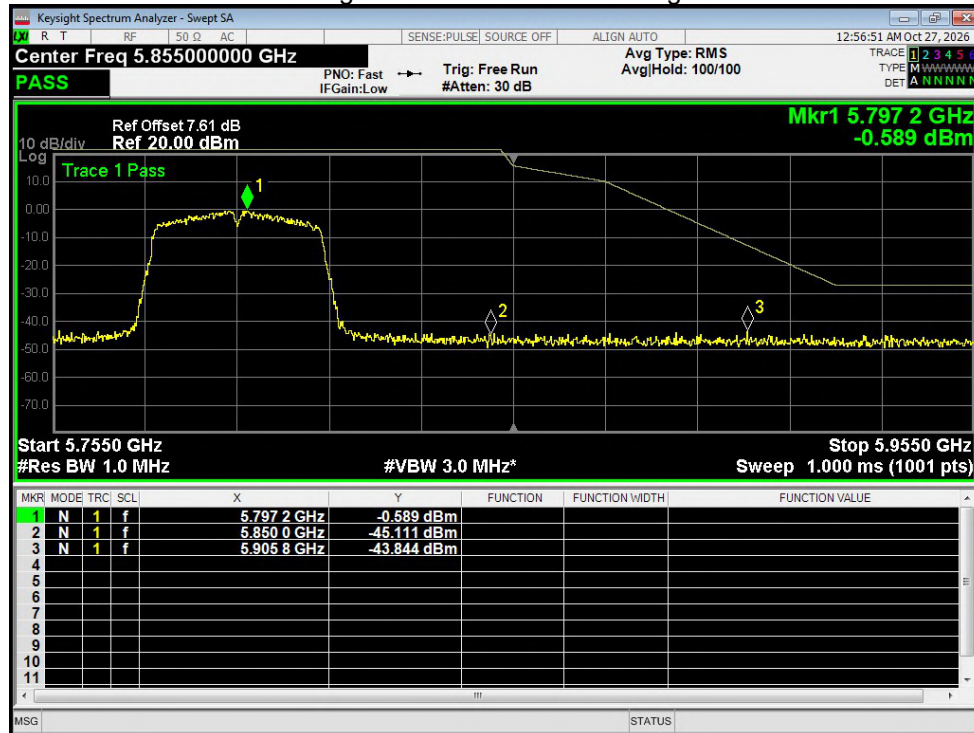
Band Edge NVNT ac20 5825MHz High Ant1



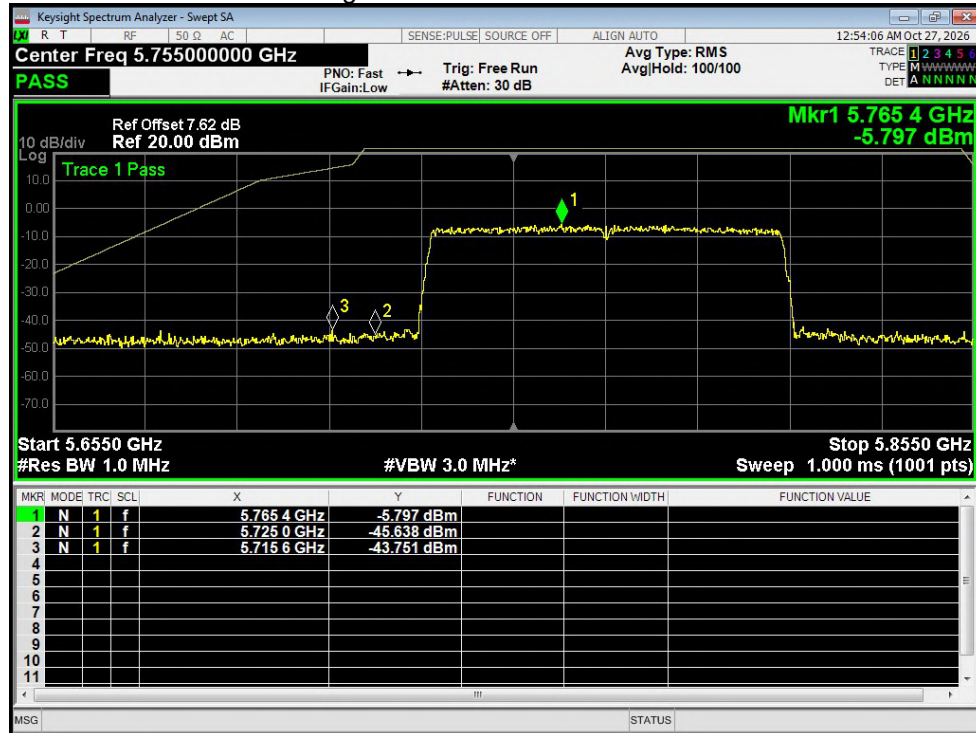
Band Edge NVNT ac40 5755MHz Low Ant1



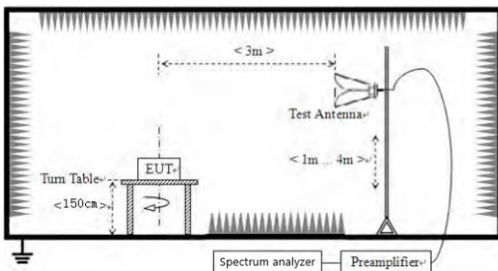
Band Edge NVNT ac40 5795MHz High Ant1



Band Edge NVNT ac80 5775MHz Low Ant1



4.7.2 Radiated test Method

Test Requirement:	47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 6.10				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak AV	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value
Limit:	Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz. All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.				
Test setup:					
Test Procedure:	- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.				

	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test environment:	Temp.: 24.2°C Humid.: 53%RH
Test voltage:	DC 7.7V from battery
Test results:	Pass

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Two antennas are tested, only the worst case's (Main Antenna) data was showed.

4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

5. According to KDB 789033 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

$$E[dBuV/m] = EIRP[dBm] + 95.2;$$

For example, if EIRP = -27dBm

$$E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$$

$$E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.$$

$$E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.$$

$$E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m$$



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IEEE 802.11a Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	50.95	-7.53	43.42	74.00	-30.58	Horizontal	PK
5150	50.23	-7.53	42.70	74.00	-31.30	Vertical	PK
5150	42.05	-7.53	34.52	54.00	-19.48	Horizontal	AV
5150	43.18	-7.53	35.65	54.00	-18.35	Vertical	AV

IEEE 802.11a Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	49.98	-7.06	42.92	74.00	-31.08	Horizontal	PK
5350	51.51	-7.06	44.45	74.00	-29.55	Vertical	PK
5350	41.20	-7.06	34.14	54.00	-19.86	Horizontal	AV
5350	42.82	-7.06	35.76	54.00	-18.24	Vertical	AV

IEEE 802.11n20 Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	51.44	-7.53	43.91	74.00	-30.09	Horizontal	PK
5150	51.74	-7.53	44.21	74.00	-29.79	Vertical	PK
5150	40.71	-7.53	33.18	54.00	-20.82	Horizontal	AV
5150	42.46	-7.53	34.93	54.00	-19.07	Vertical	AV

IEEE 802.11n20 Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	50.37	-7.06	43.31	74.00	-30.69	Horizontal	PK
5350	51.02	-7.06	43.96	74.00	-30.04	Vertical	PK
5350	40.71	-7.06	33.65	54.00	-20.35	Horizontal	AV
5350	41.10	-7.06	34.04	54.00	-19.96	Vertical	AV



IEEE 802.11ac20 Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	52.41	-7.53	44.88	74.00	-29.12	Horizontal	PK
5150	51.48	-7.53	43.95	74.00	-30.05	Vertical	PK
5150	43.09	-7.53	35.56	54.00	-18.44	Horizontal	AV
5150	42.36	-7.53	34.83	54.00	-19.17	Vertical	AV

IEEE 802.11ac20 Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	51.00	-7.06	43.94	74.00	-30.06	Horizontal	PK
5350	53.50	-7.06	46.44	74.00	-27.56	Vertical	PK
5350	40.21	-7.06	33.15	54.00	-20.85	Horizontal	AV
5350	42.77	-7.06	35.71	54.00	-18.29	Vertical	AV

IEEE 802.11n40 Operation Frequency:5190MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	52.11	-7.53	44.58	74.00	-29.42	Horizontal	PK
5150	51.53	-7.53	44.00	74.00	-30.00	Vertical	PK
5150	41.89	-7.53	34.36	54.00	-19.64	Horizontal	AV
5150	41.06	-7.53	33.53	54.00	-20.47	Vertical	AV

IEEE 802.11n40 Operation Frequency:5230MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	50.11	-7.06	43.05	74.00	-30.95	Horizontal	PK
5350	50.42	-7.06	43.36	74.00	-30.64	Vertical	PK
5350	42.17	-7.06	35.11	54.00	-18.89	Horizontal	AV
5350	41.08	-7.06	34.02	54.00	-19.98	Vertical	AV

IEEE 802.11ac40 Operation Frequency:5190MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	50.43	-7.53	42.90	74.00	-31.10	Horizontal	PK
5150	51.33	-7.53	43.80	74.00	-30.20	Vertical	PK
5150	41.66	-7.53	34.13	54.00	-19.87	Horizontal	AV
5150	41.87	-7.53	34.34	54.00	-19.66	Vertical	AV



IEEE 802.11ac40 Operation Frequency:5230MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	50.85	-7.06	43.79	74.00	-30.21	Horizontal	PK
5350	53.57	-7.06	46.51	74.00	-27.49	Vertical	PK
5350	40.51	-7.06	33.45	54.00	-20.55	Horizontal	AV
5350	42.15	-7.06	35.09	54.00	-18.91	Vertical	AV

IEEE 802.11ac80 Operation Frequency:5210MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	51.70	-7.53	44.17	74.00	-29.83	Horizontal	PK
5150	52.92	-7.53	45.39	74.00	-28.61	Vertical	PK
5150	41.49	-7.53	33.96	54.00	-20.04	Horizontal	AV
5150	43.25	-7.53	35.72	54.00	-18.28	Vertical	AV

IEEE 802.11ac80 Operation Frequency:5210MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	50.95	-7.06	43.89	74.00	-30.11	Horizontal	PK
5350	51.68	-7.06	44.62	74.00	-29.38	Vertical	PK
5350	40.64	-7.06	33.58	54.00	-20.42	Horizontal	AV
5350	42.37	-7.06	35.31	54.00	-18.69	Vertical	AV



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IEEE 802.11a							
Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	55.36	-6.34	49.02	68.20	-19.18	Horizontal	PK
5650	42.28	-6.34	35.94	54.00	-18.06	Horizontal	AV
5700	48.75	-6.22	42.53	105.20	-62.67	Horizontal	PK
5700	39.80	-6.22	33.58	54.00	-20.42	Horizontal	AV
5720	51.27	-6.17	45.10	110.80	-65.70	Horizontal	PK
5720	41.74	-6.17	35.57	54.00	-18.43	Horizontal	AV
5725	49.70	-6.16	43.54	122.20	-78.66	Horizontal	PK
5725	42.93	-6.16	36.77	54.00	-17.23	Horizontal	AV
5650	55.50	-6.34	49.16	68.20	-19.04	Vertical	PK
5650	42.96	-6.34	36.62	54.00	-17.38	Vertical	AV
5700	59.78	-6.22	53.56	105.20	-51.64	Vertical	PK
5700	47.59	-6.22	41.37	54.00	-12.63	Vertical	AV
5720	56.46	-6.17	50.29	110.80	-60.51	Vertical	PK
5720	48.76	-6.17	42.59	54.00	-11.41	Vertical	AV
5725	53.91	-6.16	47.75	122.20	-74.45	Vertical	PK
5725	43.47	-6.16	37.31	54.00	-16.69	Vertical	AV

IEEE 802.11a							
Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	54.72	-5.87	48.85	122.20	-73.35	Vertical	PK
5850	42.82	-5.87	36.95	54.00	-17.05	Vertical	AV
5855	54.95	-5.85	49.10	110.80	-61.70	Vertical	PK
5855	48.76	-5.85	42.91	54.00	-11.09	Vertical	AV
5875	53.35	-5.80	47.55	105.20	-57.65	Vertical	PK
5875	40.49	-5.80	34.69	54.00	-19.31	Vertical	AV
5925	52.50	-5.68	46.82	68.20	-21.38	Vertical	PK
5925	41.75	-5.68	36.07	54.00	-17.93	Vertical	AV
5850	50.01	-5.87	44.14	122.20	-78.06	Horizontal	PK
5850	41.46	-5.87	35.59	54.00	-18.41	Horizontal	AV
5855	49.24	-5.85	43.39	110.80	-67.41	Horizontal	PK
5855	40.73	-5.85	34.88	54.00	-19.12	Horizontal	AV
5875	52.75	-5.80	46.95	105.20	-58.25	Horizontal	PK
5875	42.03	-5.80	36.23	54.00	-17.77	Horizontal	AV
5925	52.14	-5.68	46.46	68.20	-21.74	Horizontal	PK
5925	41.32	-5.68	35.64	54.00	-18.36	Horizontal	AV



IEEE 802.11n20							
Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	53.81	-6.34	47.47	68.20	-20.73	Horizontal	PK
5650	40.61	-6.34	34.27	54.00	-19.73	Horizontal	AV
5700	51.12	-6.22	44.90	105.20	-60.30	Horizontal	PK
5700	39.15	-6.22	32.93	54.00	-21.07	Horizontal	AV
5720	54.57	-6.17	48.40	110.80	-62.40	Horizontal	PK
5720	42.52	-6.17	36.35	54.00	-17.65	Horizontal	AV
5725	56.12	-6.16	49.96	122.20	-72.24	Horizontal	PK
5725	43.74	-6.16	37.58	54.00	-16.42	Horizontal	AV
5650	56.56	-6.34	50.22	68.20	-17.98	Vertical	PK
5650	43.77	-6.34	37.43	54.00	-16.57	Vertical	AV
5700	55.06	-6.22	48.84	105.20	-56.36	Vertical	PK
5700	45.56	-6.22	39.34	54.00	-14.66	Vertical	AV
5720	55.58	-6.17	49.41	110.80	-61.39	Vertical	PK
5720	46.75	-6.17	40.58	54.00	-13.42	Vertical	AV
5725	54.94	-6.16	48.78	122.20	-73.42	Vertical	PK
5725	45.27	-6.16	39.11	54.00	-14.89	Vertical	AV

IEEE 802.11n20							
Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	54.94	-5.87	49.07	122.20	-73.13	Vertical	PK
5850	43.72	-5.87	37.85	54.00	-16.15	Vertical	AV
5855	55.09	-5.85	49.24	110.80	-61.56	Vertical	PK
5855	44.79	-5.85	38.94	54.00	-15.06	Vertical	AV
5875	54.36	-5.80	48.56	105.20	-56.64	Vertical	PK
5875	41.26	-5.80	35.46	54.00	-18.54	Vertical	AV
5925	53.50	-5.68	47.82	68.20	-20.38	Vertical	PK
5925	42.53	-5.68	36.85	54.00	-17.15	Vertical	AV
5850	50.97	-5.87	45.10	122.20	-77.10	Horizontal	PK
5850	40.79	-5.87	34.92	54.00	-19.08	Horizontal	AV
5855	53.10	-5.85	47.25	110.80	-63.55	Horizontal	PK
5855	42.35	-5.85	36.50	54.00	-17.50	Horizontal	AV
5875	54.35	-5.80	48.55	105.20	-56.65	Horizontal	PK
5875	42.02	-5.80	36.22	54.00	-17.78	Horizontal	AV
5925	55.97	-5.68	50.29	68.20	-17.91	Horizontal	PK
5925	45.89	-5.68	40.21	54.00	-13.79	Horizontal	AV



IEEE 802.11ac20							
Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	54.76	-6.34	48.42	68.20	-19.78	Horizontal	PK
5650	41.80	-6.34	35.46	54.00	-18.54	Horizontal	AV
5700	52.92	-6.22	46.70	105.20	-58.50	Horizontal	PK
5700	42.17	-6.22	35.95	54.00	-18.05	Horizontal	AV
5720	52.39	-6.17	46.22	110.80	-64.58	Horizontal	PK
5720	42.95	-6.17	36.78	54.00	-17.22	Horizontal	AV
5725	54.78	-6.16	48.62	122.20	-73.58	Horizontal	PK
5725	43.77	-6.16	37.61	54.00	-16.39	Horizontal	AV
5650	54.53	-6.34	48.19	68.20	-20.01	Vertical	PK
5650	42.01	-6.34	35.67	54.00	-18.33	Vertical	AV
5700	54.78	-6.22	48.56	105.20	-56.64	Vertical	PK
5700	42.76	-6.22	36.54	54.00	-17.46	Vertical	AV
5720	54.24	-6.17	48.07	110.80	-62.73	Vertical	PK
5720	42.66	-6.17	36.49	54.00	-17.51	Vertical	AV
5725	54.79	-6.16	48.63	122.20	-73.57	Vertical	PK
5725	42.99	-6.16	36.83	54.00	-17.17	Vertical	AV

IEEE 802.11ac20							
Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	54.19	-5.87	48.32	122.20	-73.88	Vertical	PK
5850	45.54	-5.87	39.67	54.00	-14.33	Vertical	AV
5855	55.96	-5.85	50.11	110.80	-60.69	Vertical	PK
5855	44.68	-5.85	38.83	54.00	-15.17	Vertical	AV
5875	53.20	-5.80	47.40	105.20	-57.80	Vertical	PK
5875	41.66	-5.80	35.86	54.00	-18.14	Vertical	AV
5925	51.92	-5.68	46.24	68.20	-21.96	Vertical	PK
5925	42.05	-5.68	36.37	54.00	-17.63	Vertical	AV
5850	53.70	-5.87	47.83	122.20	-74.37	Horizontal	PK
5850	41.64	-5.87	35.77	54.00	-18.23	Horizontal	AV
5855	52.04	-5.85	46.19	110.80	-64.61	Horizontal	PK
5855	40.63	-5.85	34.78	54.00	-19.22	Horizontal	AV
5875	52.91	-5.80	47.11	105.20	-58.09	Horizontal	PK
5875	41.36	-5.80	35.56	54.00	-18.44	Horizontal	AV
5925	53.83	-5.68	48.15	68.20	-20.05	Horizontal	PK
5925	43.36	-5.68	37.68	54.00	-16.32	Horizontal	AV



IEEE 802.11n40							
Operation Frequency:5755MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	54.48	-6.34	48.14	68.20	-20.06	Horizontal	PK
5650	42.72	-6.34	36.38	54.00	-17.62	Horizontal	AV
5700	53.48	-6.22	47.26	105.20	-57.94	Horizontal	PK
5700	41.66	-6.22	35.44	54.00	-18.56	Horizontal	AV
5720	53.83	-6.17	47.66	110.80	-63.14	Horizontal	PK
5720	42.35	-6.17	36.18	54.00	-17.82	Horizontal	AV
5725	55.47	-6.16	49.31	122.20	-72.89	Horizontal	PK
5725	43.65	-6.16	37.49	54.00	-16.51	Horizontal	AV
5650	52.68	-6.34	46.34	68.20	-21.86	Vertical	PK
5650	43.15	-6.34	36.81	54.00	-17.19	Vertical	AV
5700	54.40	-6.22	48.18	105.20	-57.02	Vertical	PK
5700	44.09	-6.22	37.87	54.00	-16.13	Vertical	AV
5720	53.77	-6.17	47.60	110.80	-63.20	Vertical	PK
5720	43.47	-6.17	37.30	54.00	-16.70	Vertical	AV
5725	54.31	-6.16	48.15	122.20	-74.05	Vertical	PK
5725	42.80	-6.16	36.64	54.00	-17.36	Vertical	AV

IEEE 802.11n40							
Operation Frequency:5795MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	55.10	-5.87	49.23	122.20	-72.97	Vertical	PK
5850	44.89	-5.87	39.02	54.00	-14.98	Vertical	AV
5855	54.96	-5.85	49.11	110.80	-61.69	Vertical	PK
5855	43.94	-5.85	38.09	54.00	-15.91	Vertical	AV
5875	54.28	-5.80	48.48	105.20	-56.72	Vertical	PK
5875	43.22	-5.80	37.42	54.00	-16.58	Vertical	AV
5925	52.75	-5.68	47.07	68.20	-21.13	Vertical	PK
5925	42.49	-5.68	36.81	54.00	-17.19	Vertical	AV
5850	53.03	-5.87	47.16	122.20	-75.04	Horizontal	PK
5850	41.94	-5.87	36.07	54.00	-17.93	Horizontal	AV
5855	51.72	-5.85	45.87	110.80	-64.93	Horizontal	PK
5855	40.89	-5.85	35.04	54.00	-18.96	Horizontal	AV
5875	54.44	-5.80	48.64	105.20	-56.56	Horizontal	PK
5875	41.17	-5.80	35.37	54.00	-18.63	Horizontal	AV
5925	51.99	-5.68	46.31	68.20	-21.89	Horizontal	PK
5925	42.64	-5.68	36.96	54.00	-17.04	Horizontal	AV



IEEE 802.11ac40							
Operation Frequency:5755MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	53.78	-6.34	47.44	68.20	-20.76	Horizontal	PK
5650	42.12	-6.34	35.78	54.00	-18.22	Horizontal	AV
5700	54.38	-6.22	48.16	105.20	-57.04	Horizontal	PK
5700	44.13	-6.22	37.91	54.00	-16.09	Horizontal	AV
5720	54.53	-6.17	48.36	110.80	-62.44	Horizontal	PK
5720	43.95	-6.17	37.78	54.00	-16.22	Horizontal	AV
5725	55.66	-6.16	49.50	122.20	-72.70	Horizontal	PK
5725	45.52	-6.16	39.36	54.00	-14.64	Horizontal	AV
5650	56.33	-6.34	49.99	68.20	-18.21	Vertical	PK
5650	45.19	-6.34	38.85	54.00	-15.15	Vertical	AV
5700	53.51	-6.22	47.29	105.20	-57.91	Vertical	PK
5700	44.55	-6.22	38.33	54.00	-15.67	Vertical	AV
5720	52.74	-6.17	46.57	110.80	-64.23	Vertical	PK
5720	42.09	-6.17	35.92	54.00	-18.08	Vertical	AV
5725	53.22	-6.16	47.06	122.20	-75.14	Vertical	PK
5725	43.02	-6.16	36.86	54.00	-17.14	Vertical	AV

IEEE 802.11ac40							
Operation Frequency:5795MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	55.93	-5.87	50.06	122.20	-72.14	Vertical	PK
5850	44.37	-5.87	38.50	54.00	-15.50	Vertical	AV
5855	54.17	-5.85	48.32	110.80	-62.48	Vertical	PK
5855	45.17	-5.85	39.32	54.00	-14.68	Vertical	AV
5875	56.19	-5.80	50.39	105.20	-54.81	Vertical	PK
5875	43.72	-5.80	37.92	54.00	-16.08	Vertical	AV
5925	54.71	-5.68	49.03	68.20	-19.17	Vertical	PK
5925	44.17	-5.68	38.49	54.00	-15.51	Vertical	AV
5850	53.52	-5.87	47.65	122.20	-74.55	Horizontal	PK
5850	43.23	-5.87	37.36	54.00	-16.64	Horizontal	AV
5855	53.35	-5.85	47.50	110.80	-63.30	Horizontal	PK
5855	42.38	-5.85	36.53	54.00	-17.47	Horizontal	AV
5875	55.82	-5.80	50.02	105.20	-55.18	Horizontal	PK
5875	43.25	-5.80	37.45	54.00	-16.55	Horizontal	AV
5925	55.77	-5.68	50.09	68.20	-18.11	Horizontal	PK
5925	44.47	-5.68	38.79	54.00	-15.21	Horizontal	AV



IEEE 802.11ac80							
Operation Frequency:5775MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	56.61	-6.34	50.27	68.20	-17.93	Horizontal	PK
5650	43.06	-6.34	36.72	54.00	-17.28	Horizontal	AV
5700	53.38	-6.22	47.16	105.20	-58.04	Horizontal	PK
5700	42.16	-6.22	35.94	54.00	-18.06	Horizontal	AV
5720	54.37	-6.17	48.20	110.80	-62.60	Horizontal	PK
5720	43.05	-6.17	36.88	54.00	-17.12	Horizontal	AV
5725	55.30	-6.16	49.14	122.20	-73.06	Horizontal	PK
5725	44.03	-6.16	37.87	54.00	-16.13	Horizontal	AV
5650	53.50	-6.34	47.16	68.20	-21.04	Vertical	PK
5650	43.50	-6.34	37.16	54.00	-16.84	Vertical	AV
5700	56.22	-6.22	50.00	105.20	-55.20	Vertical	PK
5700	44.57	-6.22	38.35	54.00	-15.65	Vertical	AV
5720	53.53	-6.17	47.36	110.80	-63.44	Vertical	PK
5720	44.49	-6.17	38.32	54.00	-15.68	Vertical	AV
5725	54.98	-6.16	48.82	122.20	-73.38	Vertical	PK
5725	43.65	-6.16	37.49	54.00	-16.51	Vertical	AV

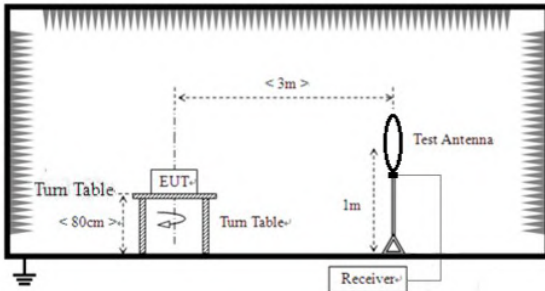
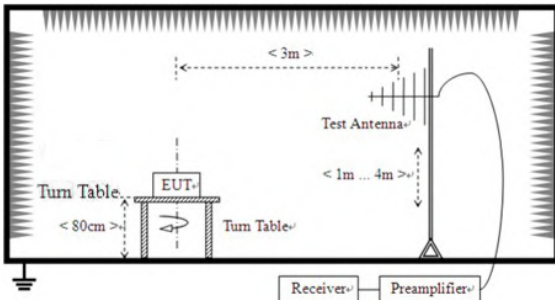
IEEE 802.11ac80							
Operation Frequency:5775MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	57.46	-5.87	51.59	122.20	-70.61	Vertical	PK
5850	46.47	-5.87	40.60	54.00	-13.40	Vertical	AV
5855	55.22	-5.85	49.37	110.80	-61.43	Vertical	PK
5855	44.28	-5.85	38.43	54.00	-15.57	Vertical	AV
5875	54.14	-5.80	48.34	105.20	-56.86	Vertical	PK
5875	43.20	-5.80	37.40	54.00	-16.60	Vertical	AV
5925	52.05	-5.68	46.37	68.20	-21.83	Vertical	PK
5925	43.11	-5.68	37.43	54.00	-16.57	Vertical	AV
5850	56.52	-5.87	50.65	122.20	-71.55	Horizontal	PK
5850	45.22	-5.87	39.35	54.00	-14.65	Horizontal	AV
5855	54.10	-5.85	48.25	110.80	-62.55	Horizontal	PK
5855	43.36	-5.85	37.51	54.00	-16.49	Horizontal	AV
5875	54.90	-5.80	49.10	105.20	-56.10	Horizontal	PK
5875	43.57	-5.80	37.77	54.00	-16.23	Horizontal	AV
5925	50.80	-5.68	45.12	68.20	-23.08	Horizontal	PK
5925	42.08	-5.68	36.40	54.00	-17.60	Horizontal	AV

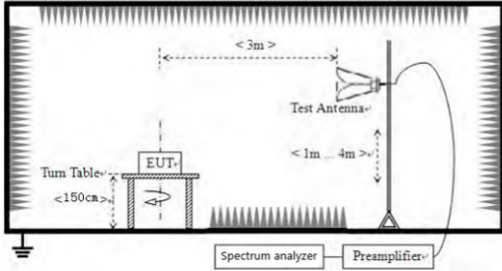
Remark:

Factor =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

4.8 Spurious Emission

4.8.1 Radiated Emission Method

Test Requirement:	47CFR Part 15.209, Part 15E Section 15.407(b)(4)				
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§6.4&6.5&6.6				
Test Frequency Range:	9kHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Frequency	Limit (dBm/MHz)	Remark		
	Above 1GHz	-27.0	Peak Value		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
Test setup:	For radiated emissions from 30MHz to 1GHz				
					

	For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remarks:

1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
3. All models and modes have been tested, and the report only displays the worst mode data.

Measurement Data:

9 kHz ~ 30 MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

30MHz-1GHz

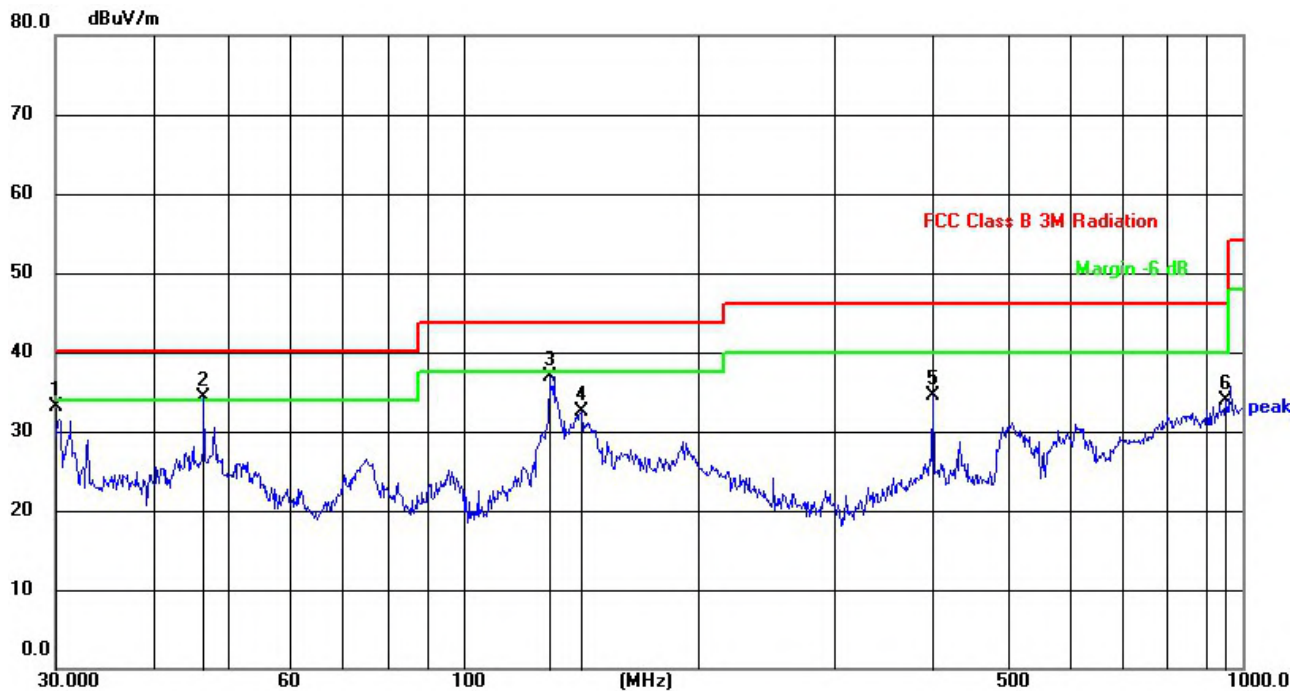
Temperature:	24.4℃	Relative Humidity:	60%RH
Pressure:	101.2kPa	Test Voltage :	DC12V From adapter with AC 120V/60Hz
Test Mode :	TX- 802.11ac20 (5180MHz)		

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.3992	54.42	-22.64	31.78	40.00	-8.22	QP
2	70.3365	53.71	-24.52	29.19	40.00	-10.81	QP
3	129.0141	54.88	-22.93	31.95	43.50	-11.55	QP
4	400.4318	54.83	-17.64	37.19	46.00	-8.81	QP
5	649.6594	41.92	-10.14	31.78	46.00	-14.22	QP
6	932.2712	37.71	-4.09	33.62	46.00	-12.38	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	56.06	-22.93	33.13	40.00	-6.87	QP
2	46.5030	55.86	-21.60	34.26	40.00	-5.74	QP
3	129.0142	59.83	-22.93	36.90	43.50	-6.60	QP
4	141.8262	54.24	-21.77	32.47	43.50	-11.03	QP
5	400.4318	52.13	-17.64	34.49	46.00	-11.51	QP
6	952.0937	37.33	-3.48	33.85	46.00	-12.15	QP

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case 802.11ac20 (5180MHz) mode.

**Above 1GHz:**

Temperature:	24.4℃	Relative Humidity:	60%RH
Pressure:	101.2kPa	Test Voltage :	DC12V From adapter with AC 120V/60Hz
Test Mode :	5.2G TX- 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5180MHz							
V	10360.00	42.59	1.77	44.36	68.20	-23.84	PK
V	10360.00	37.74	1.77	39.51	54.00	-14.49	AV
V	15540.00	43.06	7.72	50.78	74.00	-23.22	PK
V	15540.00	33.12	7.72	40.84	54.00	-13.16	AV
V	20720.00	53.09	-5.73	47.36	68.20	-20.84	PK
V	20720.00	48.08	-5.73	42.35	54.00	-11.65	AV
V	25900.00	50.08	-2.89	47.19	68.20	-21.01	PK
V	25900.00	45.51	-2.89	42.62	54.00	-11.38	AV
V	31080.00	46.82	1.66	48.48	68.20	-19.72	PK
V	31080.00	41.60	1.66	43.26	54.00	-10.74	AV
V	36260.00	44.39	4.63	49.02	68.20	-19.18	PK
V	36260.00	39.64	4.63	44.27	54.00	-9.73	AV
H	10360.00	41.95	1.77	43.72	68.20	-24.48	PK
H	10360.00	37.39	1.77	39.16	54.00	-14.84	AV
H	15540.00	43.61	7.72	51.33	74.00	-22.67	PK
H	15540.00	32.80	7.72	40.52	54.00	-13.48	AV
H	20720.00	53.56	-5.73	47.83	68.20	-20.37	PK
H	20720.00	48.85	-5.73	43.12	54.00	-10.88	AV
H	25900.00	50.10	-2.89	47.21	68.20	-20.99	PK
H	25900.00	45.48	-2.89	42.59	54.00	-11.41	AV
H	31080.00	46.31	1.66	47.97	68.20	-20.23	PK
H	31080.00	41.61	1.66	43.27	54.00	-10.73	AV
H	36260.00	43.93	4.63	48.56	68.20	-19.64	PK
H	36260.00	39.19	4.63	43.82	54.00	-10.18	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Middle Channel:5200Hz							
V	10400.00	42.74	1.85	44.59	68.20	-23.61	PK
V	10400.00	37.99	1.85	39.84	54.00	-14.16	AV
V	15600.00	44.71	7.64	52.35	74.00	-21.65	PK
V	15600.00	34.61	7.64	42.25	54.00	-11.75	AV
V	20800.00	51.07	-5.67	45.40	68.20	-22.80	PK
V	20800.00	46.55	-5.67	40.88	54.00	-13.12	AV
V	26000.00	50.94	-2.85	48.09	68.20	-20.11	PK
V	26000.00	46.21	-2.85	43.36	54.00	-10.64	AV
V	31200.00	46.91	1.57	48.48	68.20	-19.72	PK
V	31200.00	42.26	1.57	43.83	54.00	-10.17	AV
V	36400.00	44.32	4.93	49.25	68.20	-18.95	PK
V	36400.00	39.49	4.93	44.42	54.00	-9.58	AV
H	10400.00	42.05	1.85	43.90	68.20	-24.30	PK
H	10400.00	37.74	1.85	39.59	54.00	-14.41	AV
H	15600.00	44.23	7.64	51.87	74.00	-22.13	PK
H	15600.00	33.48	7.64	41.12	54.00	-12.88	AV
H	20800.00	51.66	-5.67	45.99	68.20	-22.21	PK
H	20800.00	46.93	-5.67	41.26	54.00	-12.74	AV
H	26000.00	49.24	-2.85	46.39	68.20	-21.81	PK
H	26000.00	44.55	-2.85	41.70	54.00	-12.30	AV
H	31200.00	46.69	1.57	48.26	68.20	-19.94	PK
H	31200.00	41.36	1.57	42.93	54.00	-11.07	AV
H	36400.00	44.09	4.93	49.02	68.20	-19.18	PK
H	36400.00	39.41	4.93	44.34	54.00	-9.66	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
High Channel:5240MHz							
V	10480.00	42.81	2.02	44.83	68.20	-23.37	PK
V	10480.00	38.34	2.02	40.36	54.00	-13.64	AV
V	15720.00	42.91	7.46	50.37	74.00	-23.63	PK
V	15720.00	32.61	7.46	40.07	54.00	-13.93	AV
V	20960.00	51.28	-5.56	45.72	68.20	-22.48	PK
V	20960.00	46.63	-5.56	41.07	54.00	-12.93	AV
V	26200.00	47.95	-2.50	45.45	68.20	-22.75	PK
V	26200.00	43.27	-2.50	40.77	54.00	-13.23	AV
V	31440.00	44.74	1.39	46.13	68.20	-22.07	PK
V	31440.00	39.77	1.39	41.16	54.00	-12.84	AV
V	36680.00	42.63	5.25	47.88	68.20	-20.32	PK
V	36680.00	38.66	5.25	43.91	54.00	-10.09	AV
H	10480.00	46.46	2.02	48.48	68.20	-19.72	PK
H	10480.00	40.95	2.02	42.97	54.00	-11.03	AV
H	15720.00	46.50	7.46	53.96	74.00	-20.04	PK
H	15720.00	36.36	7.46	43.82	54.00	-10.18	AV
H	20960.00	51.68	-5.56	46.12	68.20	-22.08	PK
H	20960.00	47.17	-5.56	41.61	54.00	-12.39	AV
H	26200.00	47.57	-2.50	45.07	68.20	-23.13	PK
H	26200.00	43.29	-2.50	40.79	54.00	-13.21	AV
H	31440.00	46.80	1.39	48.19	68.20	-20.01	PK
H	31440.00	42.00	1.39	43.39	54.00	-10.61	AV
H	36680.00	42.71	5.15	47.86	68.20	-20.34	PK
H	36680.00	39.05	5.15	44.20	54.00	-9.80	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Temperature:	24.4℃	Relative Humidity:	60%RH
Pressure:	101.2kPa	Test Voltage :	DC12V From adapter with AC 120V/60Hz
Test Mode :	5.8G TX- 802.11a		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5745MHz							
V	11490.00	50.40	3.31	53.71	74.00	-20.29	PK
V	11490.00	39.83	3.31	43.14	54.00	-10.86	AV
V	17235.00	36.27	10.10	46.37	68.20	-21.83	PK
V	17235.00	31.60	10.10	41.70	54.00	-12.30	AV
V	22980.00	54.74	-4.61	50.13	74.00	-23.87	PK
V	22980.00	45.22	-4.61	40.61	54.00	-13.39	AV
V	28725.00	44.37	0.87	45.24	68.20	-22.96	PK
V	28725.00	39.54	0.87	40.41	54.00	-13.59	AV
V	34470.00	44.42	3.82	48.24	68.20	-19.96	PK
V	34470.00	40.16	3.82	43.98	54.00	-10.02	AV
H	11490.00	49.61	3.31	52.92	74.00	-21.08	PK
H	11490.00	39.26	3.31	42.57	54.00	-11.43	AV
H	17235.00	38.49	10.10	48.59	68.20	-19.61	PK
H	17235.00	32.98	10.10	43.08	54.00	-10.92	AV
H	22980.00	55.74	-4.61	51.13	74.00	-22.87	PK
H	22980.00	45.31	-4.61	40.70	54.00	-13.30	AV
H	28725.00	47.01	0.87	47.88	68.20	-20.32	PK
H	28725.00	42.47	0.87	43.34	54.00	-10.66	AV
H	34470.00	44.57	3.82	48.39	68.20	-19.81	PK
H	34470.00	39.73	3.82	43.55	54.00	-10.45	AV

Remark:

- Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
- If peak below the average limit, the average emission was no test.
- The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5785MHz							
V	11570.00	49.87	3.34	53.21	74.00	-20.79	PK
V	11570.00	39.16	3.34	42.50	54.00	-11.50	AV
V	17355.00	37.82	10.52	48.34	68.20	-19.86	PK
V	17355.00	32.94	10.52	43.46	54.00	-10.54	AV
V	23140.00	55.73	-4.66	51.07	74.00	-22.93	PK
V	23140.00	45.42	-4.66	40.76	54.00	-13.24	AV
V	28925.00	44.17	1.36	45.53	68.20	-22.67	PK
V	28925.00	39.95	1.36	41.31	54.00	-12.69	AV
V	34710.00	44.10	3.95	48.05	68.20	-20.15	PK
V	34710.00	39.58	3.95	43.53	54.00	-10.47	AV
H	11570.00	50.10	3.34	53.44	74.00	-20.56	PK
H	11570.00	39.41	3.34	42.75	54.00	-11.25	AV
H	17355.00	37.78	10.52	48.30	68.20	-19.90	PK
H	17355.00	32.99	10.52	43.51	54.00	-10.49	AV
H	23140.00	55.41	-4.66	50.75	74.00	-23.25	PK
H	23140.00	44.87	-4.66	40.21	54.00	-13.79	AV
H	28925.00	45.13	1.36	46.49	68.20	-21.71	PK
H	28925.00	40.66	1.36	42.02	54.00	-11.98	AV
H	34710.00	44.19	3.95	48.14	68.20	-20.06	PK
H	34710.00	39.86	3.95	43.81	54.00	-10.19	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5825MHz							
V	11650.00	51.32	3.36	54.68	74.00	-19.32	PK
V	11650.00	41.08	3.36	44.44	54.00	-9.56	AV
V	17475.00	36.57	10.93	47.50	68.20	-20.70	PK
V	17475.00	31.72	10.93	42.65	54.00	-11.35	AV
V	23300.00	50.19	-4.77	45.42	68.20	-22.78	PK
V	23300.00	45.48	-4.77	40.71	54.00	-13.29	AV
V	29125.00	44.32	1.65	45.97	68.20	-22.23	PK
V	29125.00	40.57	1.65	42.22	54.00	-11.78	AV
V	34950.00	44.37	4.09	48.46	68.20	-19.74	PK
V	34950.00	39.91	4.09	44.00	54.00	-10.00	AV
H	11650.00	50.96	3.36	54.32	74.00	-19.68	PK
H	11650.00	39.10	3.36	42.46	54.00	-11.54	AV
H	17475.00	38.07	10.93	49.00	68.20	-19.20	PK
H	17475.00	33.54	10.93	44.47	54.00	-9.53	AV
H	23300.00	49.72	-4.77	44.95	68.20	-23.25	PK
H	23300.00	46.07	-4.77	41.30	54.00	-12.70	AV
H	29125.00	46.36	1.65	48.01	68.20	-20.19	PK
H	29125.00	41.35	1.65	43.00	54.00	-11.00	AV
H	34950.00	45.19	4.09	49.28	68.20	-18.92	PK
H	34950.00	40.12	4.09	44.21	54.00	-9.79	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5 Test Setup Photo

Reference to the file No.: ET-26094902SP for details.

6 EUT Constructional Details

Reference to the file No.: ET-26094902EP and ET-26094902IP for details

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