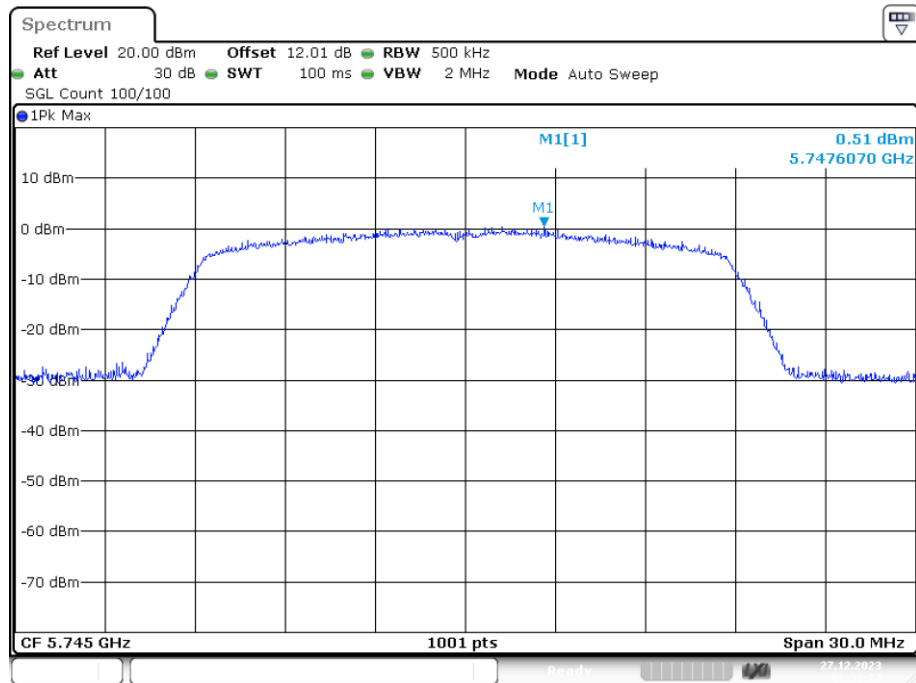
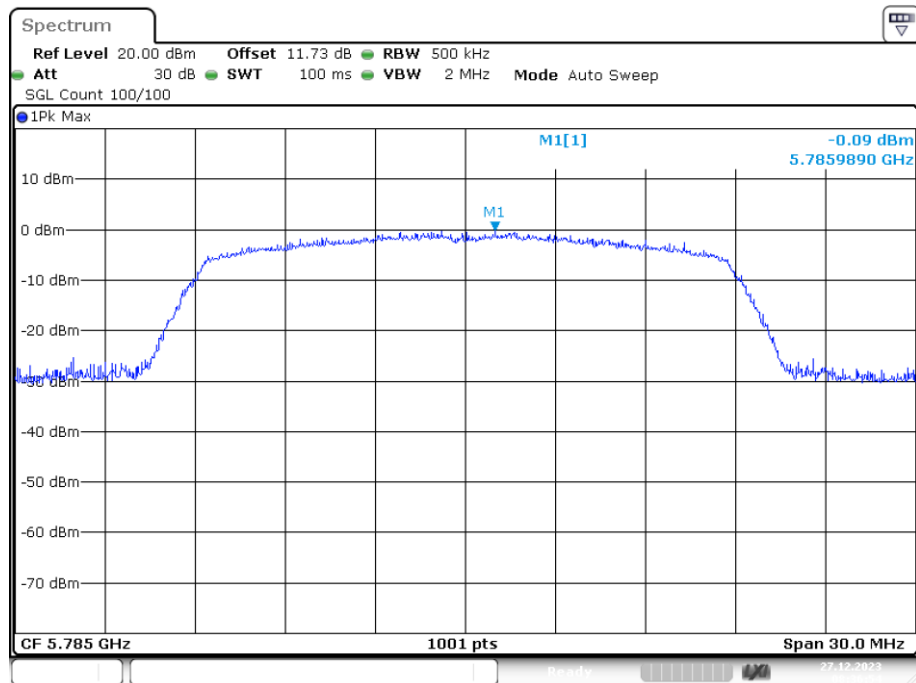


PSD NVNT n20 5745MHz Ant1



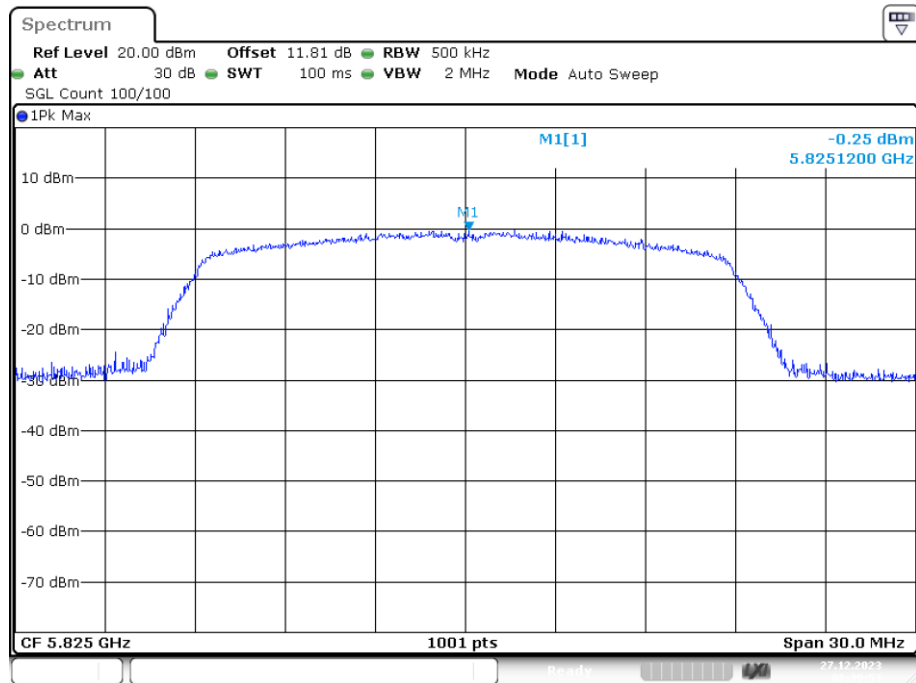
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PSD NVNT n20 5785MHz Ant1



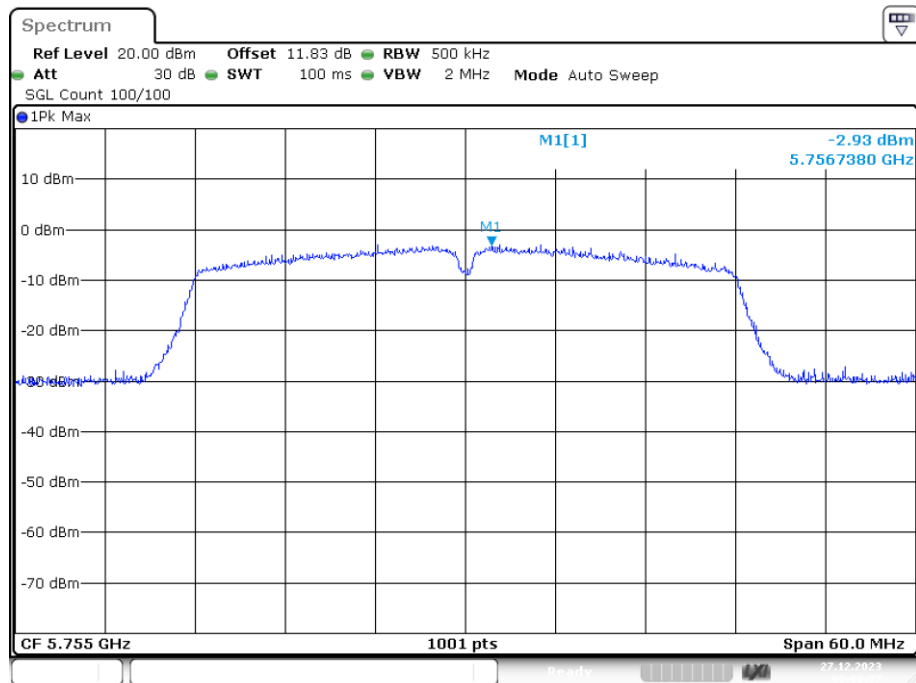
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PSD NVNT n20 5825MHz Ant1



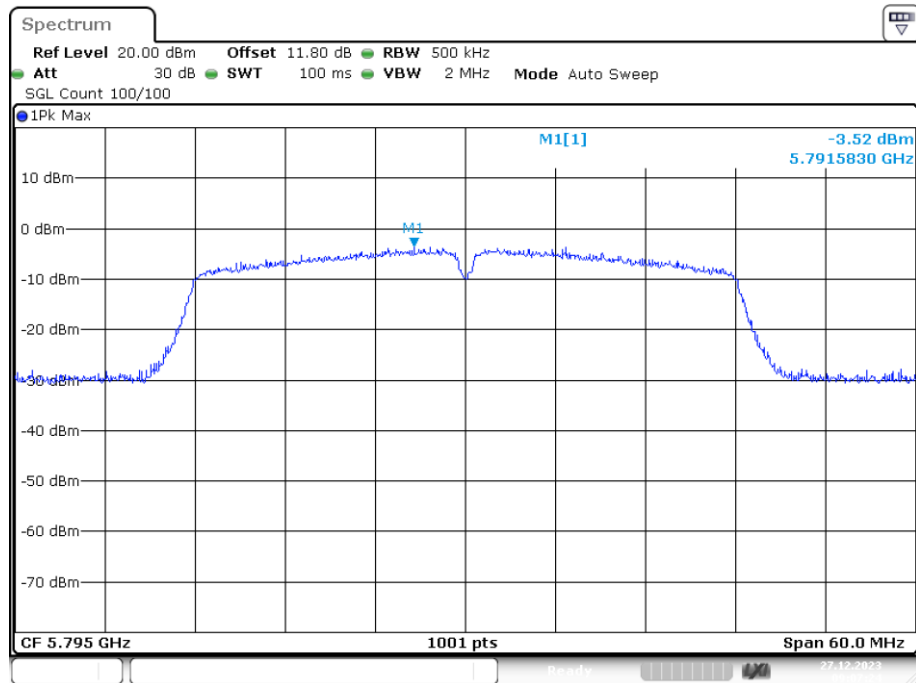
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PSD NVNT n40 5755MHz Ant1



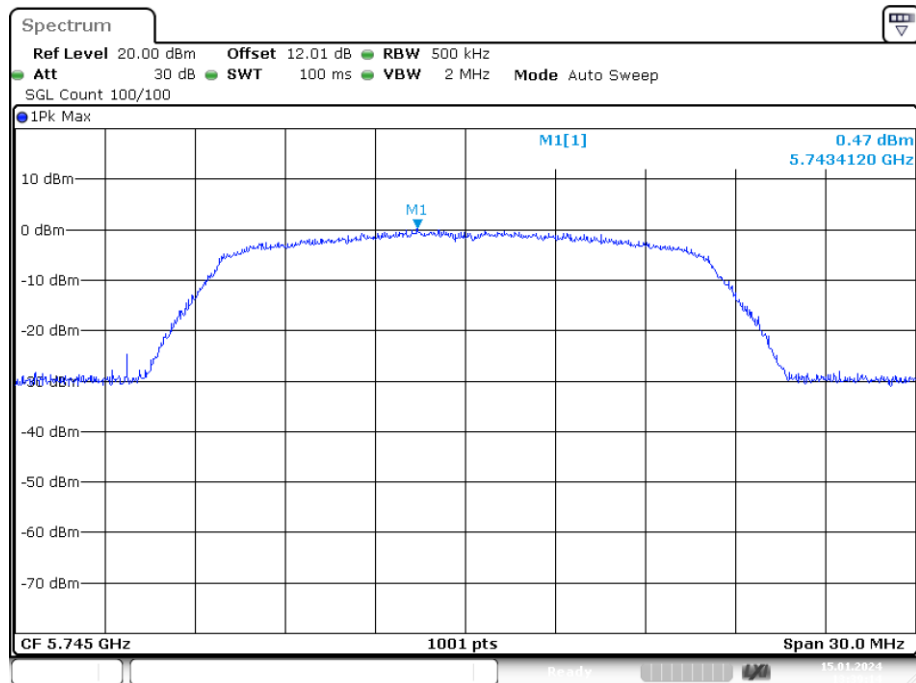
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PSD NVNT n40 5795MHz Ant1



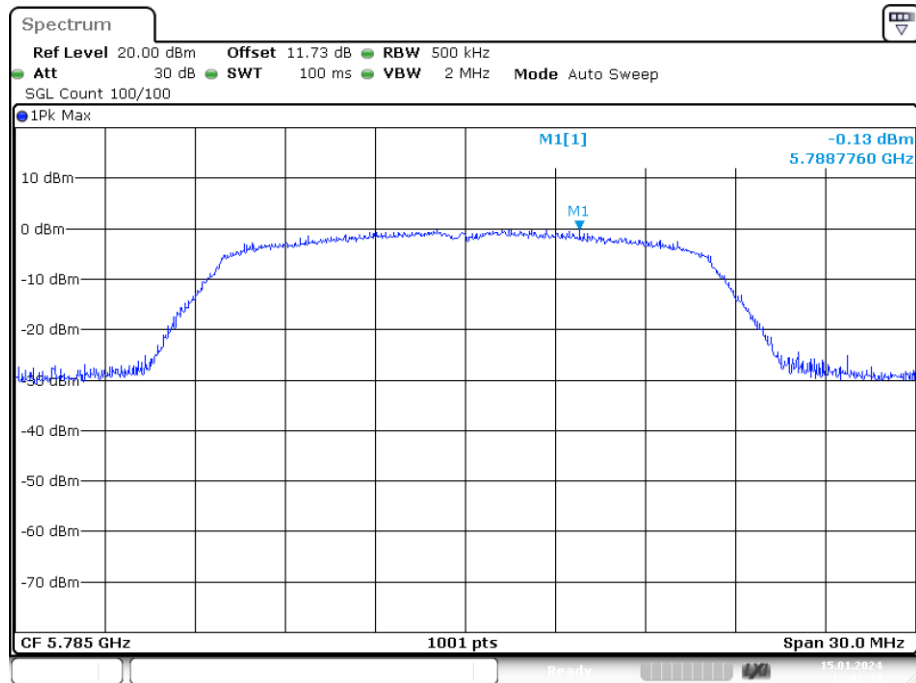
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PSD NVNT a 5745MHz Ant2



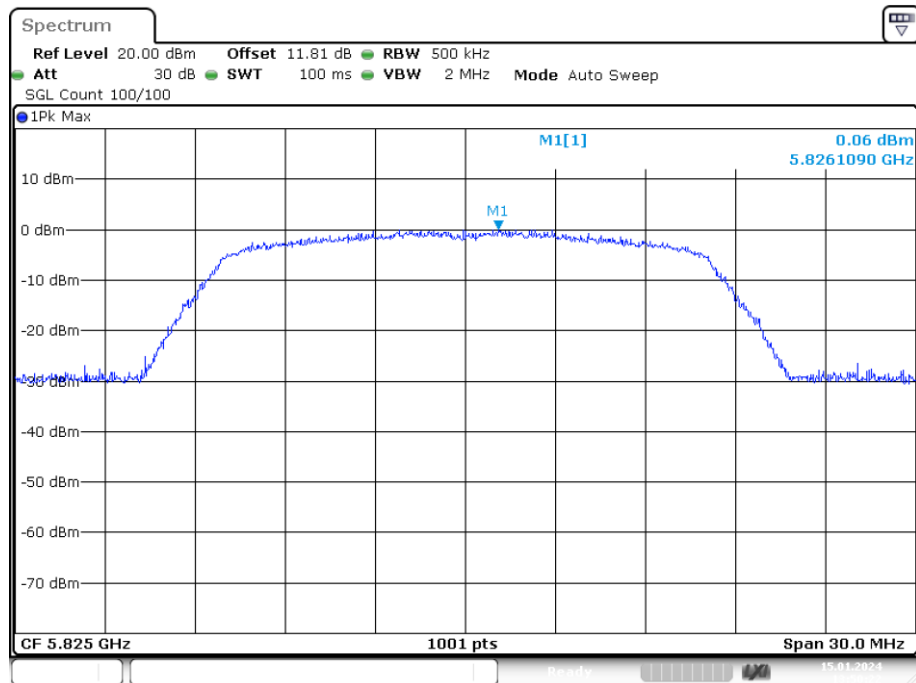
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PSD NVNT a 5785MHz Ant2



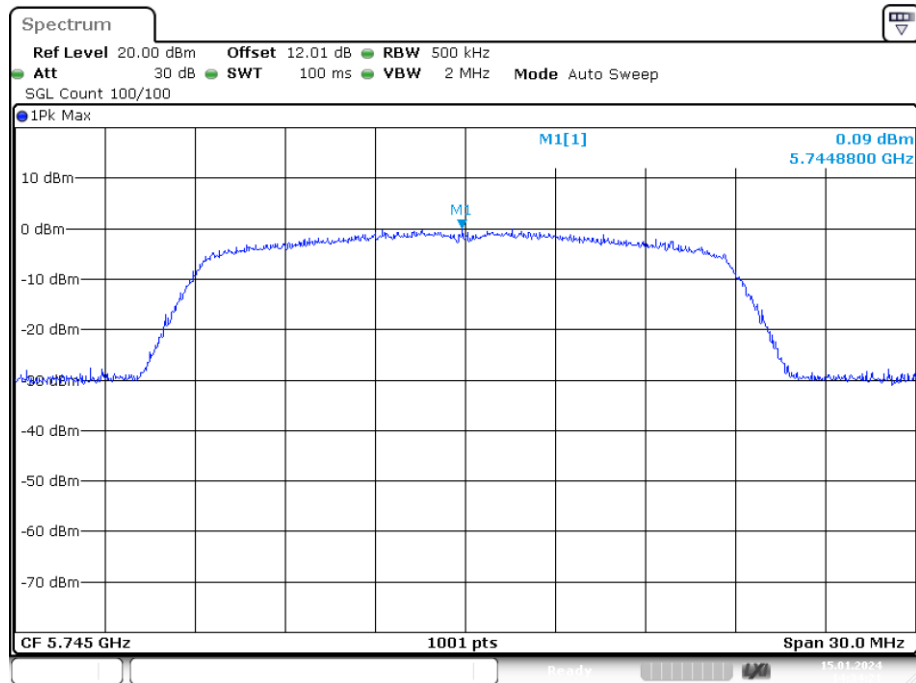
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PSD NVNT a 5825MHz Ant2



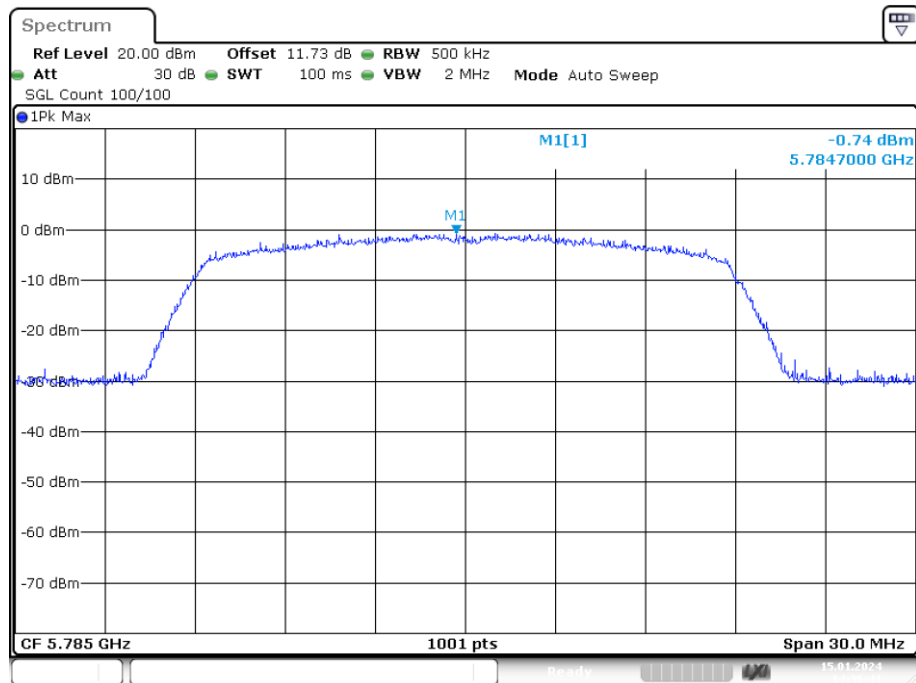
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PSD NVNT ac20 5745MHz Ant2



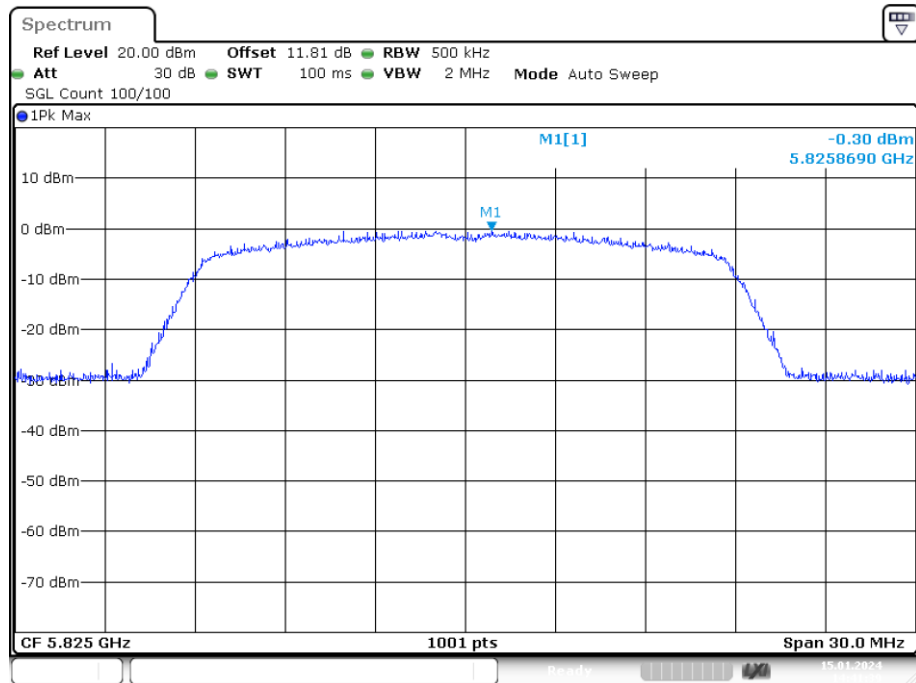
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PSD NVNT ac20 5785MHz Ant2

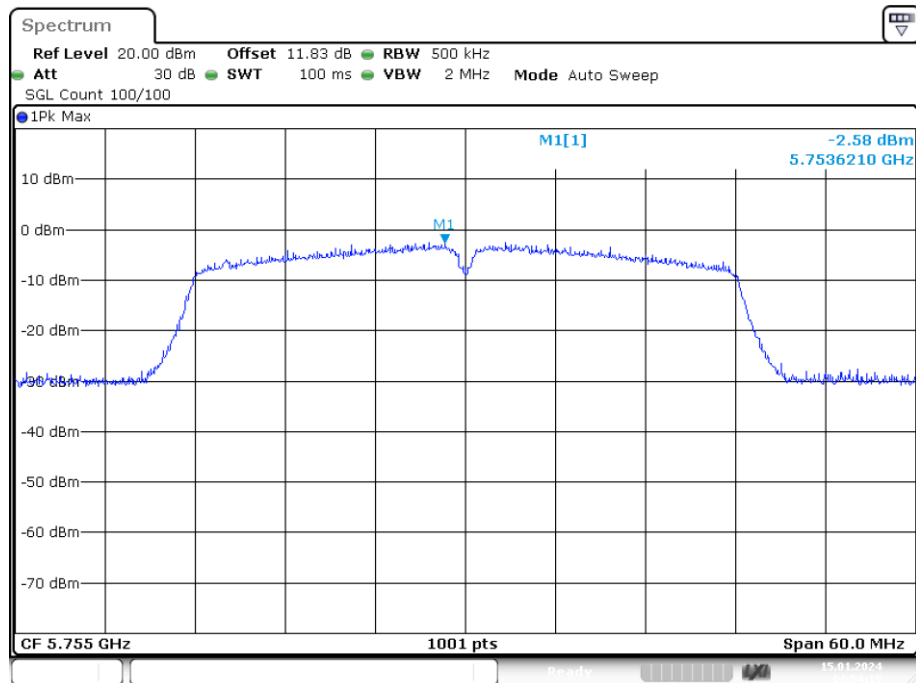


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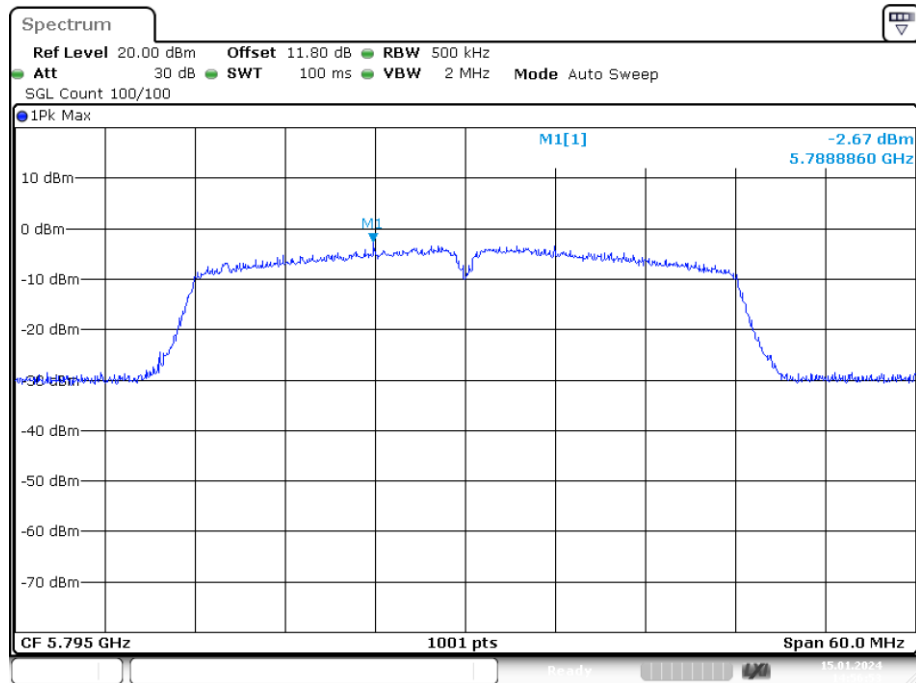
PSD NVNT ac20 5825MHz Ant2



PSD NVNT ac40 5755MHz Ant2

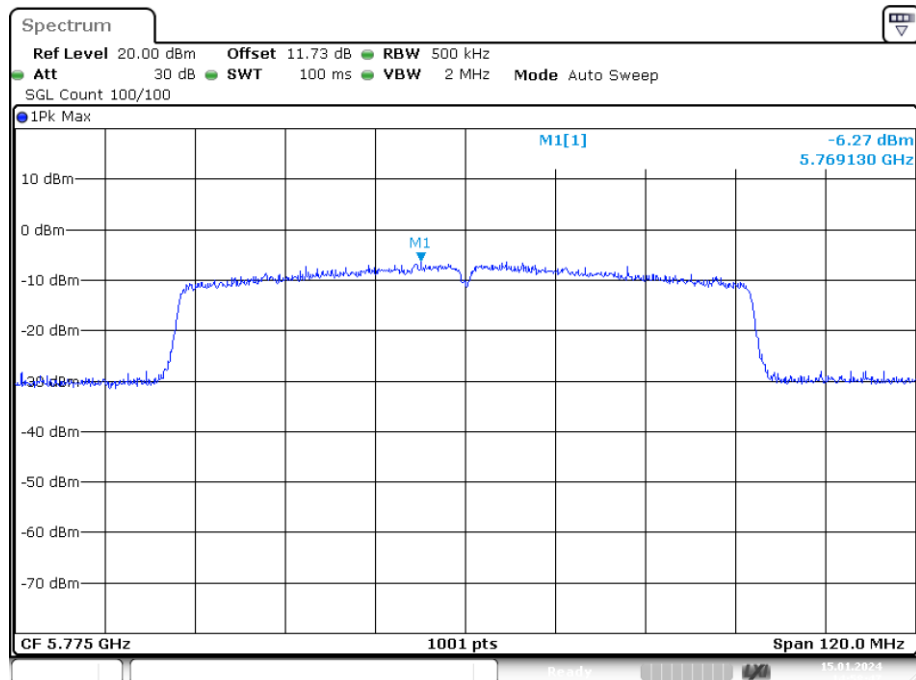


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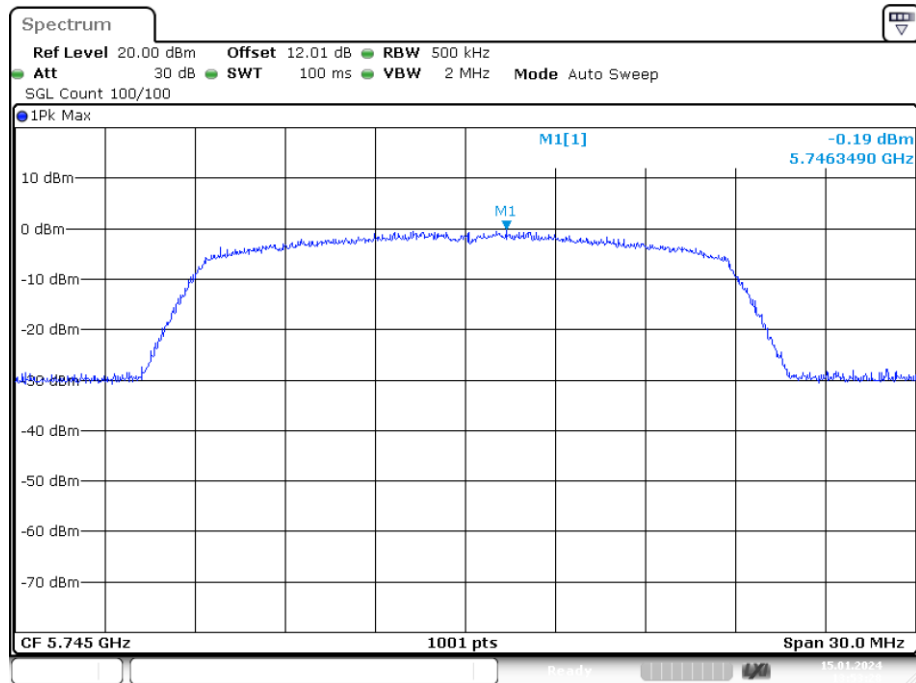
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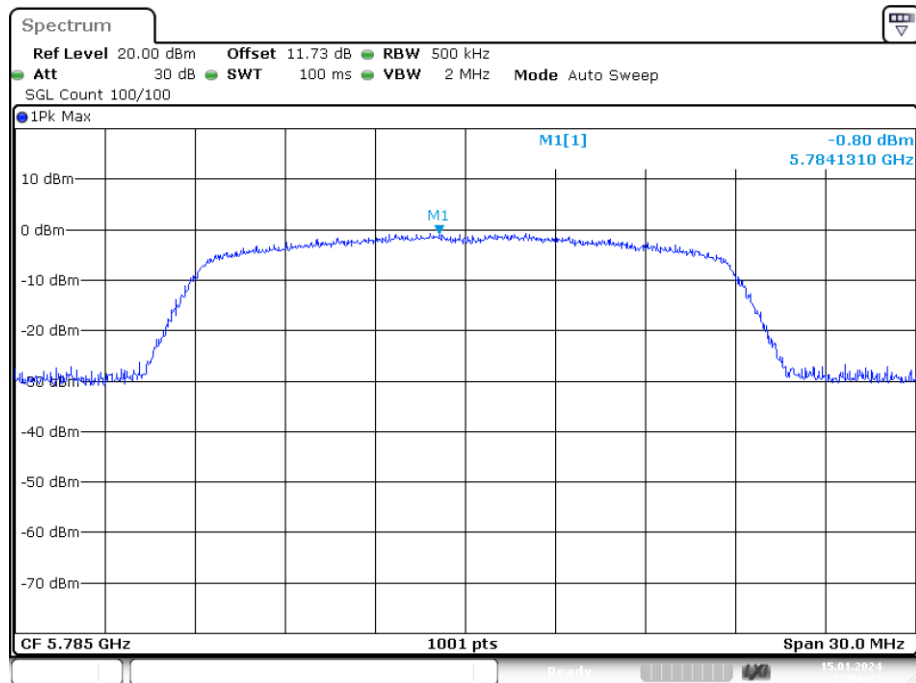
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PSD NVNT n20 5745MHz Ant2



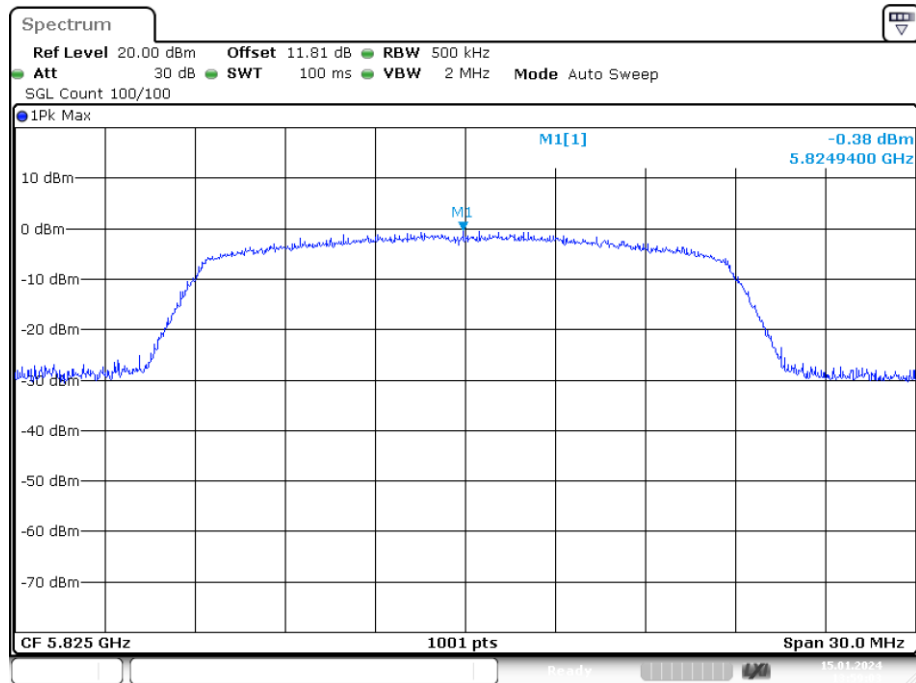
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PSD NVNT n20 5785MHz Ant2



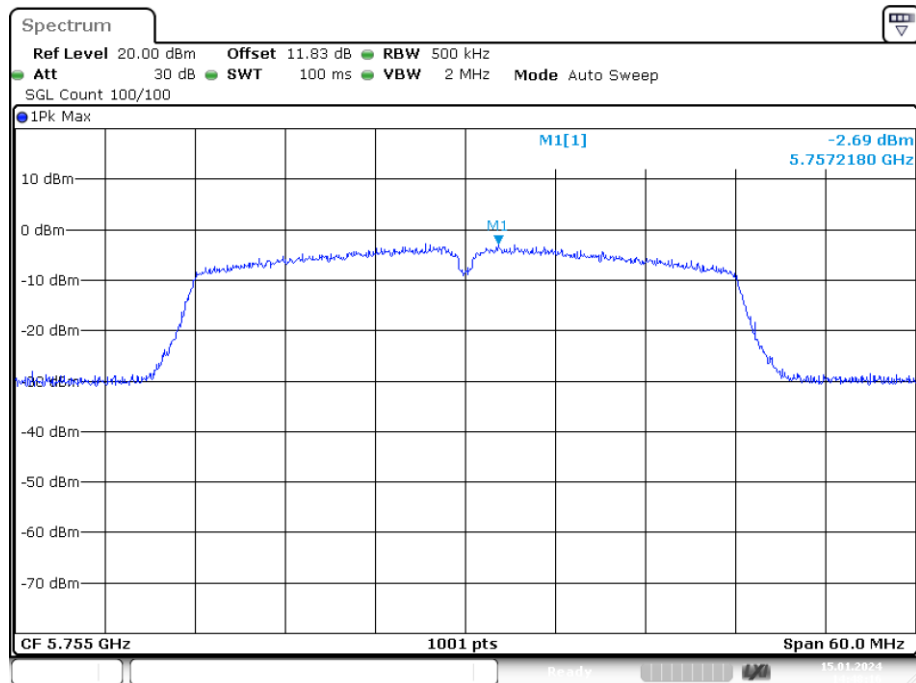
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PSD NVNT n20 5825MHz Ant2



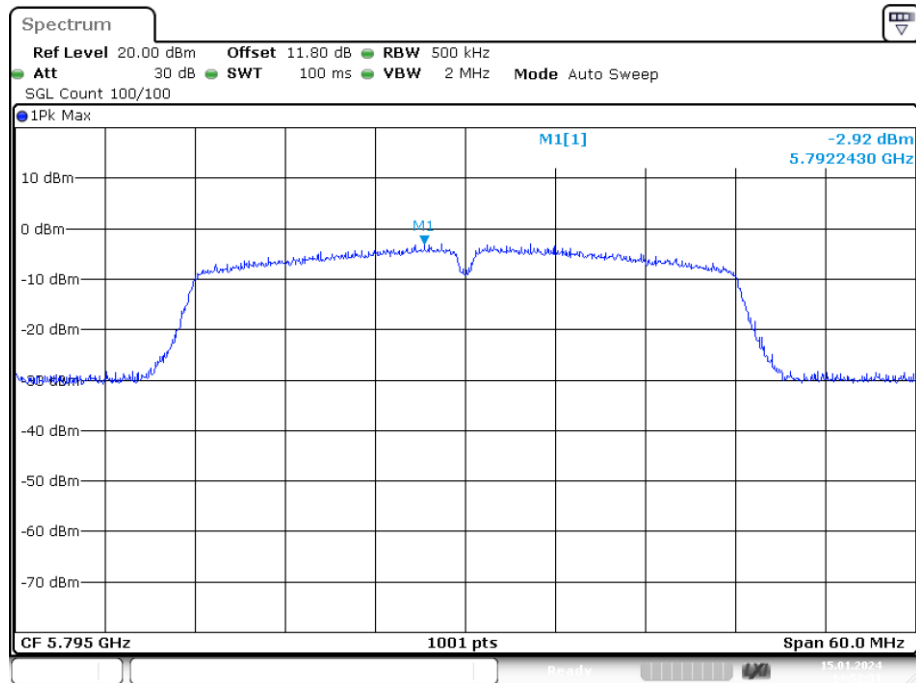
Date: 15.JAN.2024 13:59:03

PSD NVNT n40 5755MHz Ant2



Date: 15.JAN.2024 14:48:15

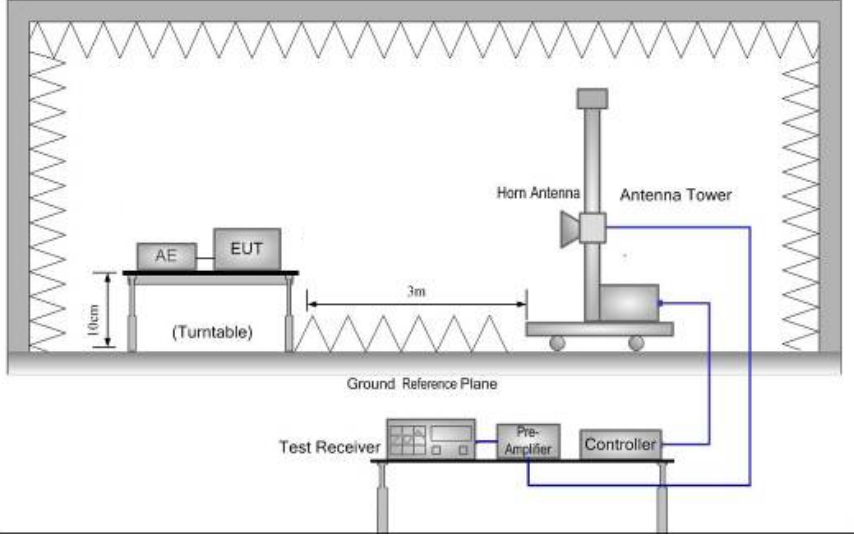
PSD NVNT n40 5795MHz Ant2



Date: 15.JAN.2024 14:52:30

4.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 15.205				
Test Method:	ANSI C63.10:2013				
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	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			68.2		Peak Value
	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.				
	Test Procedure:	a. The EUT was placed on the top of a rotating table 0.1 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.			
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.					
c. 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.					
d. 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.					
e. 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.					
Test setup:		Above 1GHz			

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2,$$

For example, if EIRP = -27dBm

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

Measurement Data:**Band1**

Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.65	17.18	50.83	68.20	-17.37	PK
V	5150.00	35.46	17.18	52.64	68.20	-15.56	PK
Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	28.02	17.18	45.20	54.00	-8.80	AV
V	5150.00	25.47	17.18	42.65	54.00	-11.35	AV
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.22	17.18	54.40	68.20	-13.80	PK
V	5350.00	36.70	17.18	53.88	68.20	-14.32	PK
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.46	17.18	42.64	54.00	-11.36	AV
V	5350.00	25.59	17.18	42.77	54.00	-11.23	AV

Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.72	17.18	52.90	68.20	-15.30	PK
V	5150.00	36.06	17.18	53.24	68.20	-14.96	PK
Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	26.06	17.18	43.24	54.00	-10.76	AV
V	5150.00	24.03	17.18	41.21	54.00	-12.79	AV
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.05	17.18	51.23	68.20	-16.97	PK
V	5350.00	35.77	17.18	52.95	68.20	-15.25	PK
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.38	17.18	42.56	54.00	-11.44	AV
V	5350.00	25.50	17.18	42.68	54.00	-11.32	AV

Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.63	17.18	50.81	68.20	-17.39	PK
V	5150.00	33.89	17.18	51.07	68.20	-17.13	PK
Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.48	17.18	44.66	54.00	-9.34	AV
V	5150.00	27.02	17.18	44.20	54.00	-9.80	AV
Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.81	17.18	52.99	68.20	-15.21	PK
V	5350.00	35.47	17.18	52.65	68.20	-15.55	PK
Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.26	17.18	44.44	54.00	-9.56	AV
V	5350.00	24.54	17.18	41.72	54.00	-12.28	AV

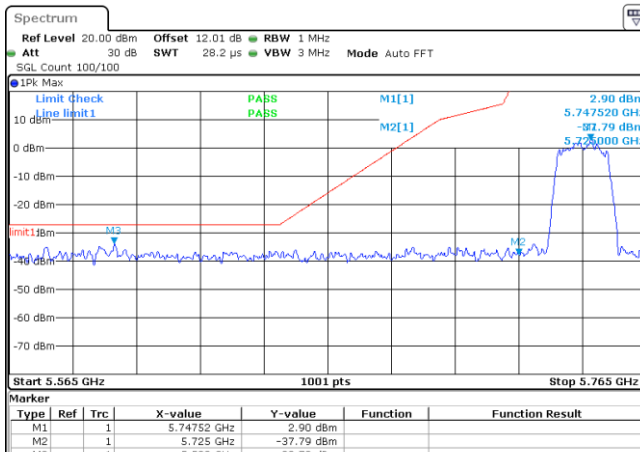
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Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.24	17.18	54.42	68.20	-13.78	PK
V	5150.00	32.74	17.18	49.92	68.20	-18.28	PK
Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.65	17.18	42.83	54.00	-11.17	AV
V	5150.00	24.01	17.18	41.19	54.00	-12.81	AV
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	33.90	17.18	51.08	68.20	-17.12	PK
V	5350.00	36.11	17.18	53.29	68.20	-14.91	PK
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.20	17.18	43.38	54.00	-10.62	AV
V	5350.00	26.45	17.18	43.63	54.00	-10.37	AV

Mode:		802.11ac(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.72	17.18	50.90	68.20	-17.30	PK
V	5150.00	36.56	17.18	53.74	68.20	-14.46	PK
Mode:		802.11ac(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.38	17.18	42.56	54.00	-11.44	AV
V	5150.00	27.30	17.18	44.48	54.00	-9.52	AV
Mode:		802.11ac(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.79	17.18	53.97	68.20	-14.23	PK
V	5350.00	36.60	17.18	53.78	68.20	-14.42	PK
Mode:		802.11ac(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.70	17.18	42.88	54.00	-11.12	AV
V	5350.00	24.53	17.18	41.71	54.00	-12.29	AV

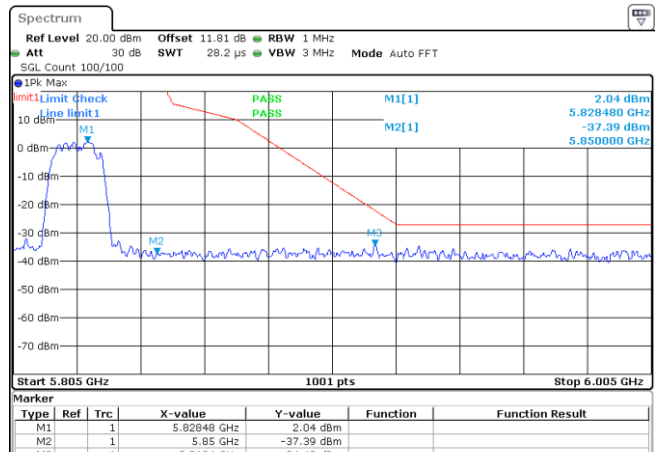
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Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	34.90	17.18	52.08	68.20	-16.12	PK
V	5150.00	35.76	17.18	52.94	68.20	-15.26	PK
Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.02	17.18	44.20	54.00	-9.80	AV
V	5150.00	27.20	17.18	44.38	54.00	-9.62	AV
Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.92	17.18	54.10	68.20	-14.10	PK
V	5350.00	34.74	17.18	51.92	68.20	-16.28	PK
Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.22	17.18	43.40	54.00	-10.60	AV
V	5350.00	26.21	17.18	43.39	54.00	-10.61	AV

Band4

802.11a

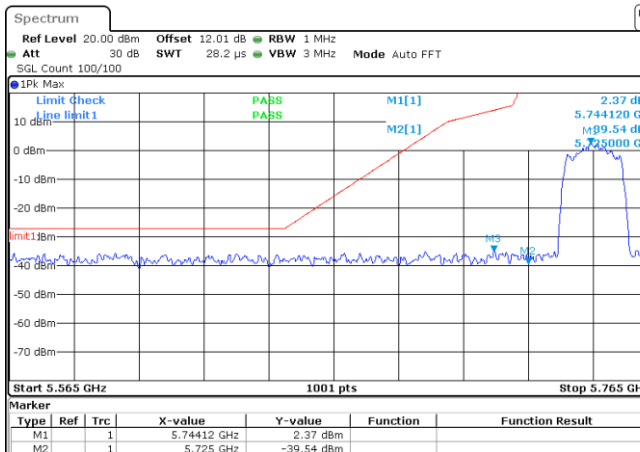


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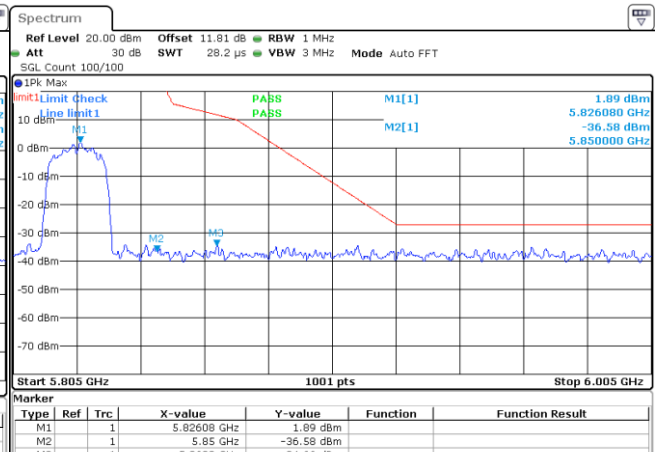


High: 5825MHz

802.11n(HT20)

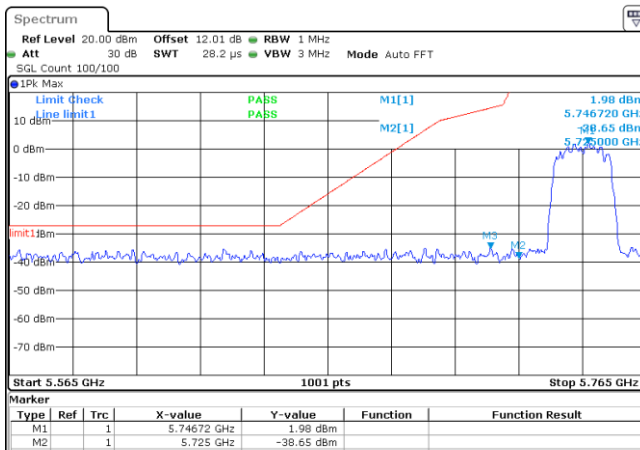


Low: 5745MHz

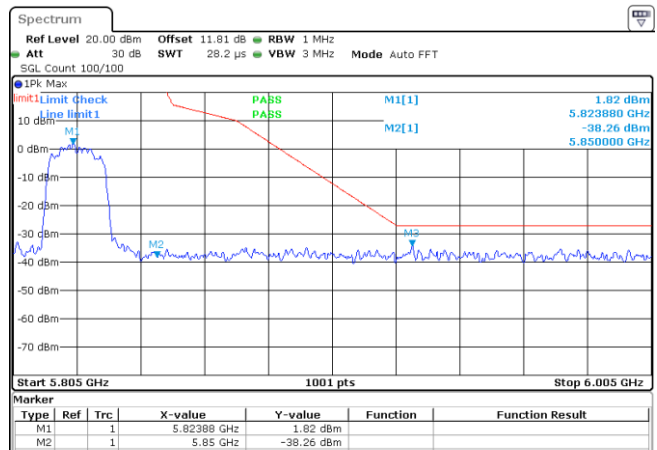


High: 5825MHz

802.11ac(HT20)

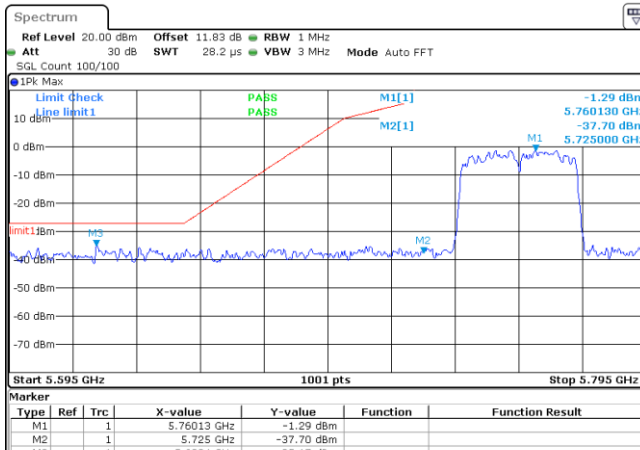


Low: 5745MHz

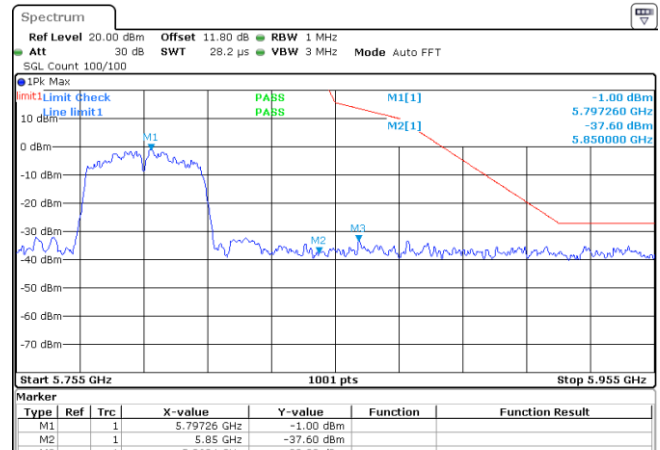


High: 5825MHz

802.11n(HT40)

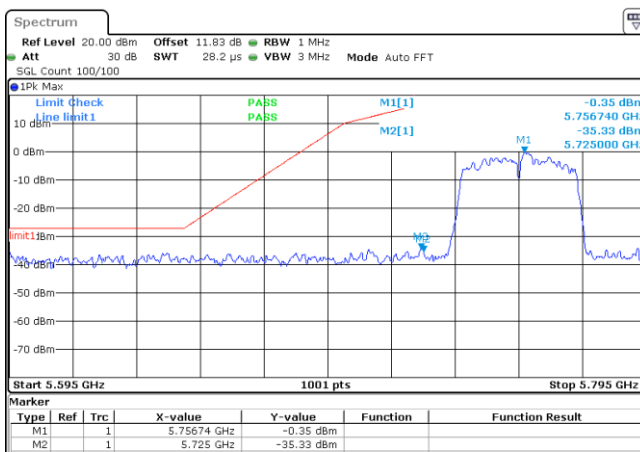


Low: 5755MHz

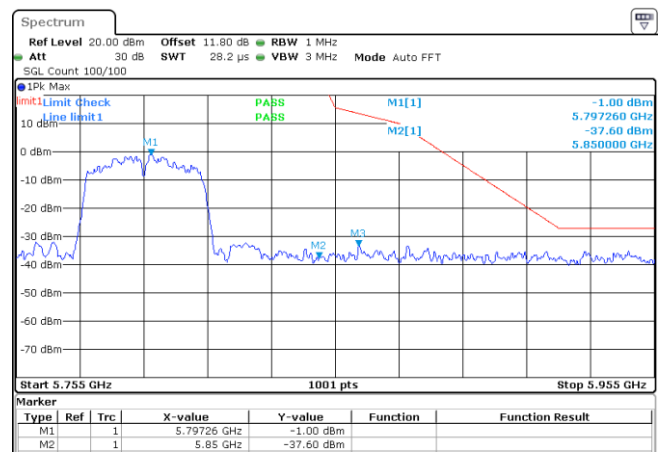


High: 5795MHz

802.11ac(HT40)

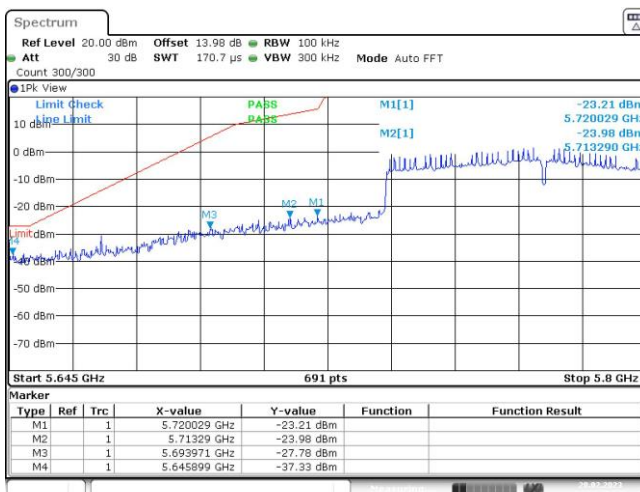


Low: 5755MHz

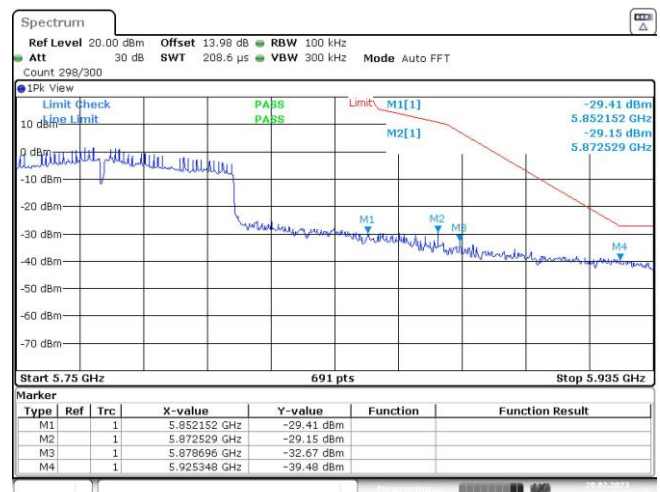


High: 5795MHz

802.11ac(HT80)



5775MHz



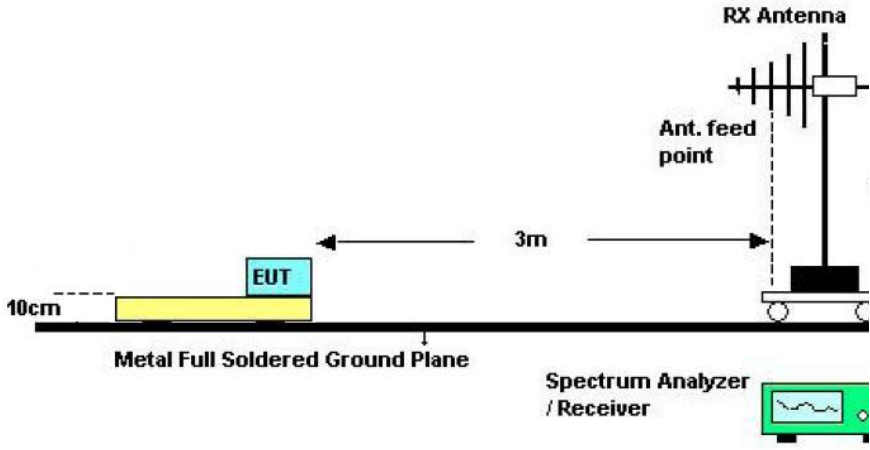
5775MHz

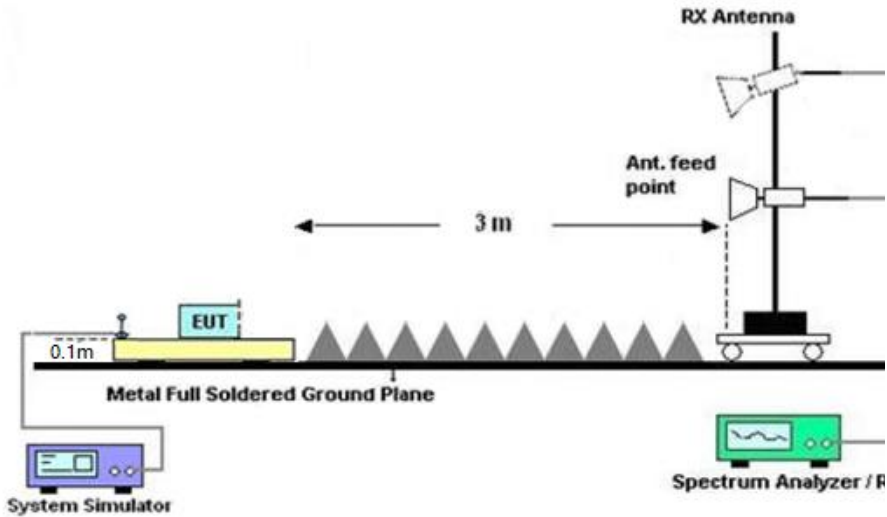
Note: 1. Except for mode a, other modes test the MIMO status.

2. All antennas have been tested, only the worst data of each pattern is reflected.

4.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		74.0		Peak Value
			54.0		Average Value
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below: 1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table (0.1m) 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 rotatable 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. 2>.Above 1GHz test procedure: 1. On the test site as test setup graph above,the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the				

	turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. - Repeat step 4 for test frequency with the test antenna polarized horizontally. - Remove the transmitter and replace it with a substitution antenna - Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. - Repeat step 7 with both antennas horizontally polarized for each test frequency. - Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: $EIRP(dBm) = P_g(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ where: P_g is the generator output power into the substitution antenna.
Test setup:	Below 1GHz  Above 1GHz

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data:**Below 1GHz**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.80	47.84	11.25	0.59	30.08	29.60	40	-10.40	Vertical
55.00	41.54	11.93	0.81	29.96	24.32	40	-15.68	Vertical
120.50	47.12	9.4	1.36	29.57	28.31	43.5	-15.19	Vertical
172.75	43.24	8.5	1.7	29.31	24.13	43.5	-19.37	Vertical
440.77	37.15	16.29	3.05	29.41	27.08	46	-18.92	Vertical
860.67	33.07	21.83	4.69	29.14	30.45	46	-15.55	Vertical
64.65	35.88	8.73	0.9	29.89	15.62	40	-24.38	Horizontal
99.60	34.02	11.73	1.19	29.7	17.24	43.5	-26.26	Horizontal
270.08	45.86	12.53	2.22	29.79	30.82	46	-15.18	Horizontal
351.23	36.32	14.5	2.62	29.73	23.71	46	-22.29	Horizontal
627.47	35.62	19.43	3.83	29.27	29.61	46	-16.39	Horizontal
956.25	41.35	22.54	5.06	29.1	39.85	46	-6.15	Horizontal

Above 1GHz:**802.11a(HT20) 5180MHz**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.48	67.46	11.25	14.62	32.65	60.68	74	-13.32	Vertical
15540.86	62.88	11.93	17.66	34.46	58.01	74	-15.99	Vertical
10360.38	64.88	9.4	14.62	32.65	56.25	74	-17.75	Horizontal
15540.89	68.37	8.5	17.66	34.46	60.07	74	-13.93	Horizontal

802.11a(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.18	67.29	16.29	14.62	32.65	65.55	74	-8.45	Vertical
15540.26	55.28	21.83	17.66	34.46	60.31	74	-13.69	Vertical
10360.87	64.88	8.73	14.62	32.65	55.58	74	-18.42	Horizontal
15540.04	68.29	11.73	17.66	34.46	63.22	74	-10.78	Horizontal

802.11a(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.48	67.85	11.25	14.62	32.65	61.07	74	-12.93	Vertical
15540.17	63.10	11.93	17.66	34.46	58.23	74	-15.77	Vertical
10360.88	64.25	9.4	14.62	32.65	55.62	74	-18.38	Horizontal
15540.32	68.41	8.5	17.66	34.46	60.11	74	-13.89	Horizontal

802.11n(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.24	67.07	16.29	14.62	32.65	65.33	74	-8.67	Vertical
15540.39	54.98	21.83	17.66	34.46	60.01	74	-13.99	Vertical
10360.92	65.50	8.73	14.62	32.65	56.20	74	-17.80	Horizontal
15540.40	67.93	11.73	17.66	34.46	62.86	74	-11.14	Horizontal

802.11n(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.02	67.92	11.25	14.62	32.65	61.14	74	-12.86	Vertical
15540.80	62.80	11.93	17.66	34.46	57.93	74	-16.07	Vertical
10360.07	65.02	9.4	14.62	32.65	56.39	74	-17.61	Horizontal
15540.24	68.21	8.5	17.66	34.46	59.91	74	-14.09	Horizontal

802.11n(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.02	67.97	16.29	14.62	32.65	66.23	74	-7.77	Vertical
15540.11	55.39	21.83	17.66	34.46	60.42	74	-13.58	Vertical
10360.63	64.87	8.73	14.62	32.65	55.57	74	-18.43	Horizontal
15540.34	68.04	11.73	17.66	34.46	62.97	74	-11.03	Horizontal

802.11ac(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.77	67.81	11.25	14.62	32.65	61.03	74	-12.97	Vertical
15540.77	63.63	11.93	17.66	34.46	58.76	74	-15.24	Vertical
10360.48	64.20	9.4	14.62	32.65	55.57	74	-18.43	Horizontal
15540.42	68.14	8.5	17.66	34.46	59.84	74	-14.16	Horizontal

802.11ac(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.61	67.19	16.29	14.62	32.65	65.45	74	-8.55	Vertical
15540.39	55.56	21.83	17.66	34.46	60.59	74	-13.41	Vertical
10360.45	64.61	8.73	14.62	32.65	55.31	74	-18.69	Horizontal
15540.57	67.85	11.73	17.66	34.46	62.78	74	-11.22	Horizontal

802.11ac(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.91	67.74	11.25	14.62	32.65	60.96	74	-13.04	Vertical
15540.49	63.51	11.93	17.66	34.46	58.64	74	-15.36	Vertical
10360.86	64.86	9.4	14.62	32.65	56.23	74	-17.77	Horizontal
15540.17	67.71	8.5	17.66	34.46	59.41	74	-14.59	Horizontal

802.11n(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.90	67.54	16.29	14.62	32.65	65.80	74	-8.20	Vertical
15540.17	55.37	21.83	17.66	34.46	60.40	74	-13.60	Vertical
10360.76	64.76	8.73	14.62	32.65	55.46	74	-18.54	Horizontal
15540.19	67.88	11.73	17.66	34.46	62.81	74	-11.19	Horizontal

802.11n(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.80	67.36	11.25	14.62	32.65	60.58	74	-13.42	Vertical
15540.08	63.68	11.93	17.66	34.46	58.81	74	-15.19	Vertical
10360.88	64.16	9.4	14.62	32.65	55.53	74	-18.47	Horizontal
15540.03	67.88	8.5	17.66	34.46	59.58	74	-14.42	Horizontal

802.11ac(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.16	67.76	16.29	14.62	32.65	66.02	74	-7.98	Vertical
15540.60	55.51	21.83	17.66	34.46	60.54	74	-13.46	Vertical
10360.95	65.34	8.73	14.62	32.65	56.04	74	-17.96	Horizontal
15540.04	68.10	11.73	17.66	34.46	63.03	74	-10.97	Horizontal

802.11ac(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.46	67.09	11.25	14.62	32.65	60.31	74	-13.69	Vertical
15540.43	63.18	11.93	17.66	34.46	58.31	74	-15.69	Vertical
10361.00	64.43	9.4	14.62	32.65	55.80	74	-18.20	Horizontal
15540.44	68.31	8.5	17.66	34.46	60.01	74	-13.99	Horizontal

802.11ac(HT80) 5210MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.92	67.84	16.29	14.62	32.65	66.10	74	-7.90	Vertical
15540.09	55.28	21.83	17.66	34.46	60.31	74	-13.69	Vertical
10360.95	64.79	8.73	14.62	32.65	55.49	74	-18.51	Horizontal
15540.88	68.43	11.73	17.66	34.46	63.36	74	-10.64	Horizontal

Note:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. This Report only show the test plots of the worst case (U-NII-1).
5. Except for mode a, other modes test the MIMO status.
6. All antennas have been tested, only the worst data of each pattern is reflected.

4.8 Frequency stability

Test limit	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test results:	Pass

Measurement Data:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	DC 3.0V	5179.988	12	5239.989	11
	DC 3.3V	5179.990	10	5239.987	13
	DC 3.6V	5179.989	11	5239.988	12
Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	DC 3.0V	5744.989	11	5824.992	8
	DC 3.3V	5744.990	10	5824.990	10
	DC 3.6V	5744.991	9	5824.992	8

Mode	Temperature (°C)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	0°C	5179.987	13	5239.989	11
	+10°C	5179.991	9	5239.989	11
	+20°C	5179.987	13	5239.987	13
	+30°C	5179.991	9	5239.990	10
	+40°C	5179.989	11	5239.987	13
	+50°C	5179.989	11	5239.989	11
	+60°C	5179.991	9	5239.989	11
	+70°C	5179.989	11	5239.988	12

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	0°C	5744.986	14	5824.988	12
	+10°C	5744.986	14	5824.989	11
	+20°C	5744.991	9	5824.990	10
	+30°C	5744.986	14	5824.992	8
	+40°C	5744.990	10	5824.990	10
	+50°C	5744.989	11	5824.990	10
	+60°C	5744.987	13	5824.990	10
	+70°C	5744.990	10	5824.990	10

Note: 1.All antennas have been tested, only the worst data of each pattern is reflected.

-----END OF REPORT-----