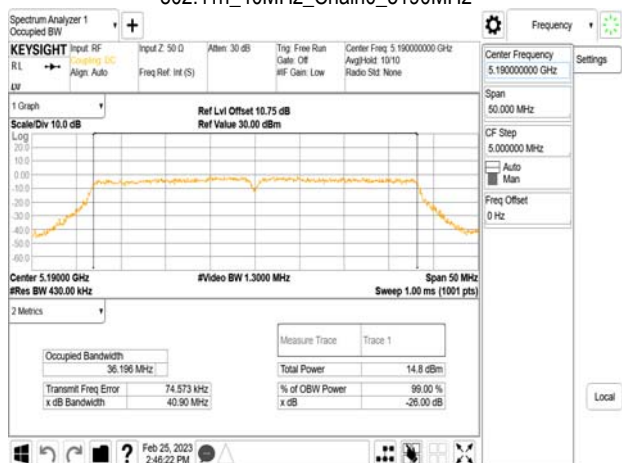
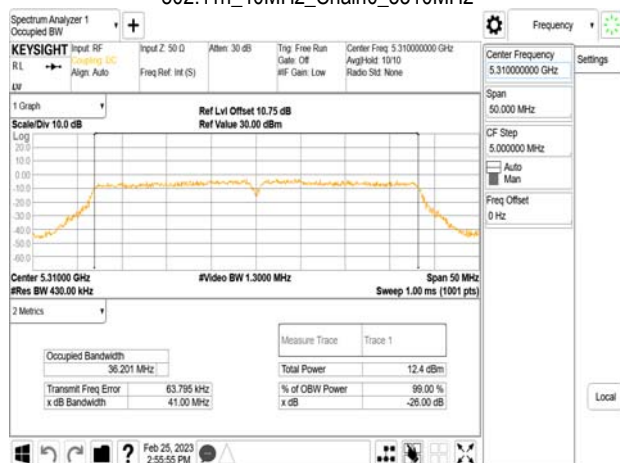


802.11n_40MHz_Chain0_5190MHz



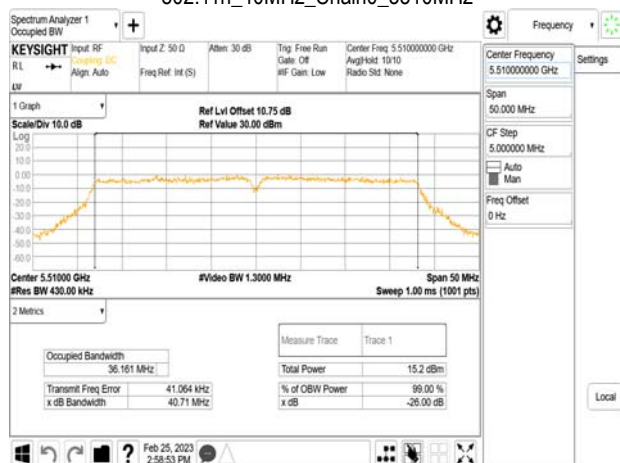
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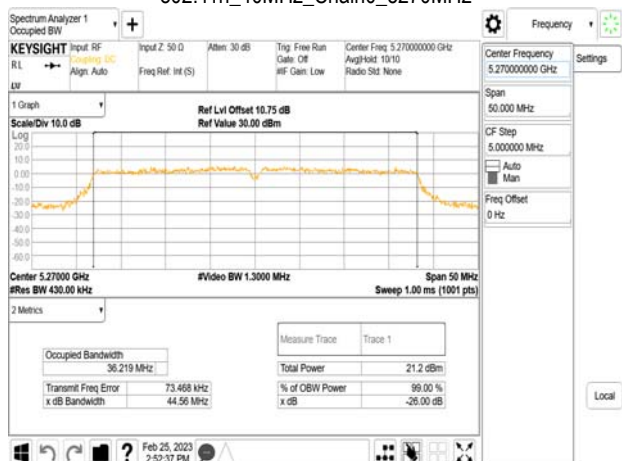
802.11n_40MHz_Chain0_5230MHz



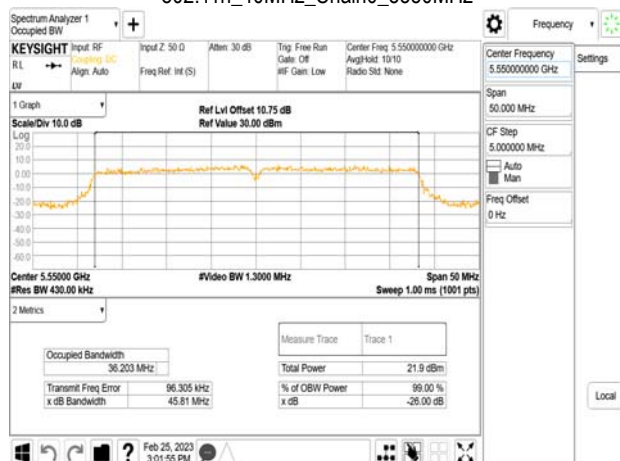
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz

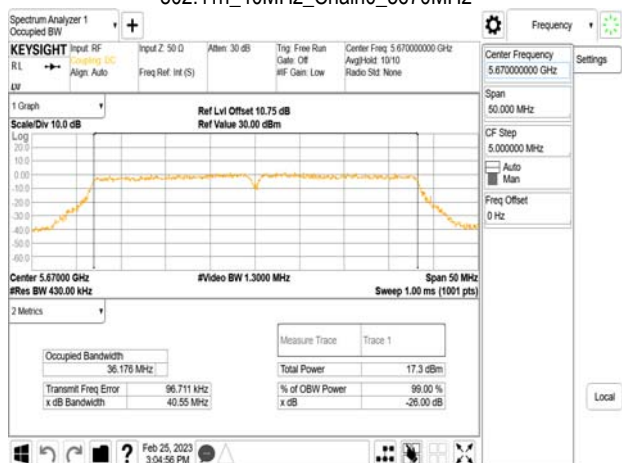


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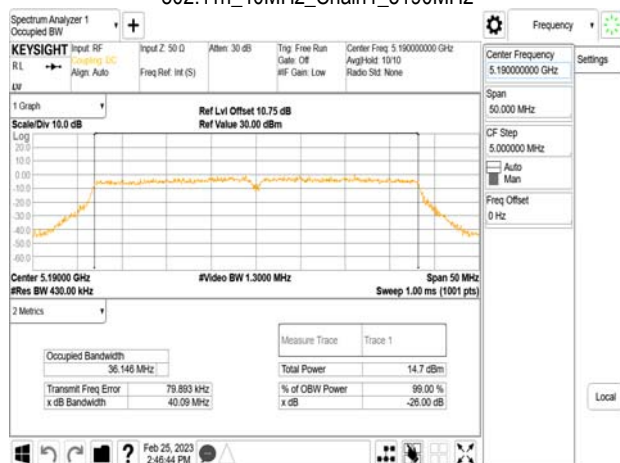
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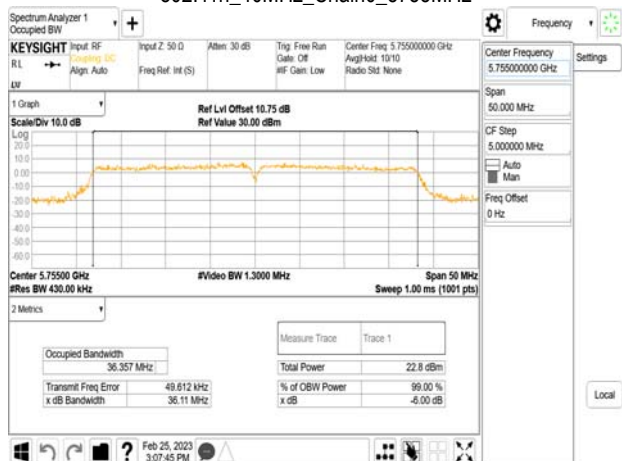
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802.11n_40MHz_Chain1_5190MHz



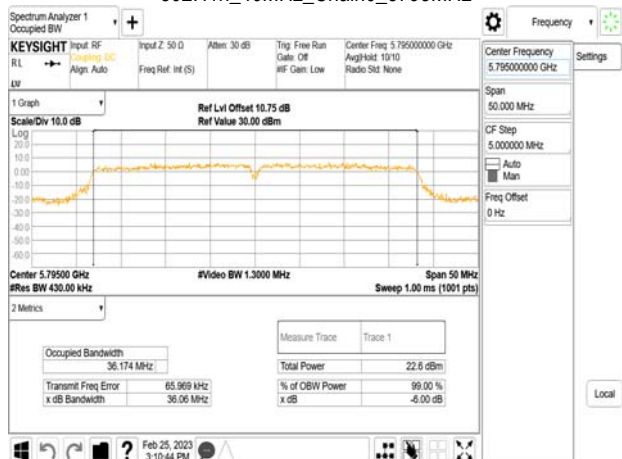
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz

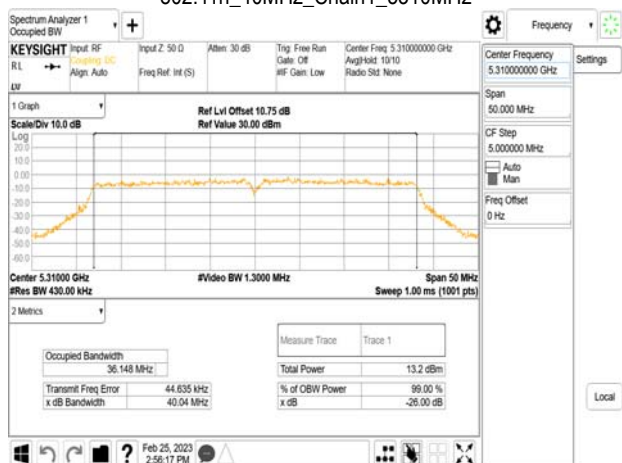


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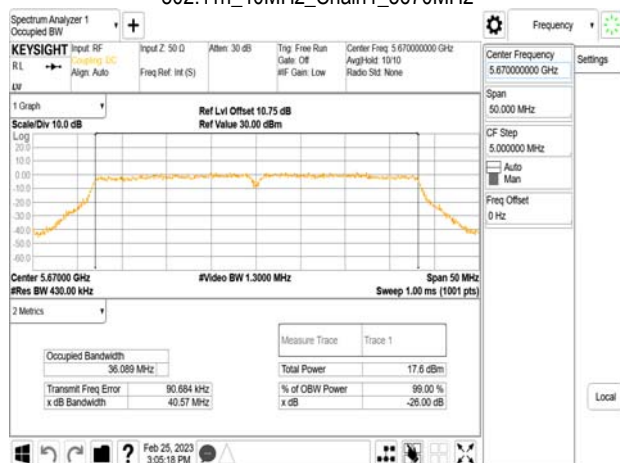
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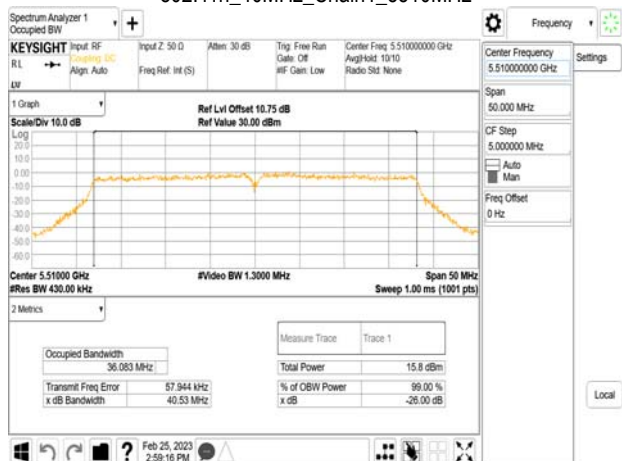
802.11n_40MHz_Chain1_5310MHz



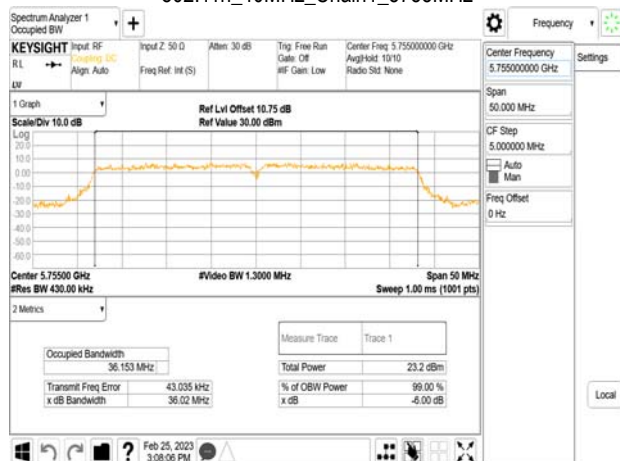
802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5795MHz



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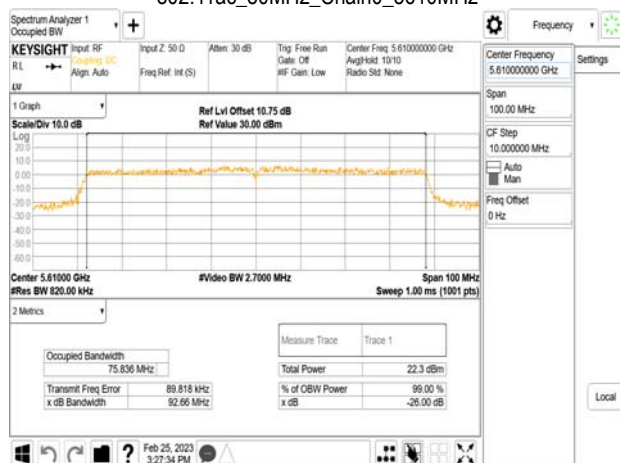
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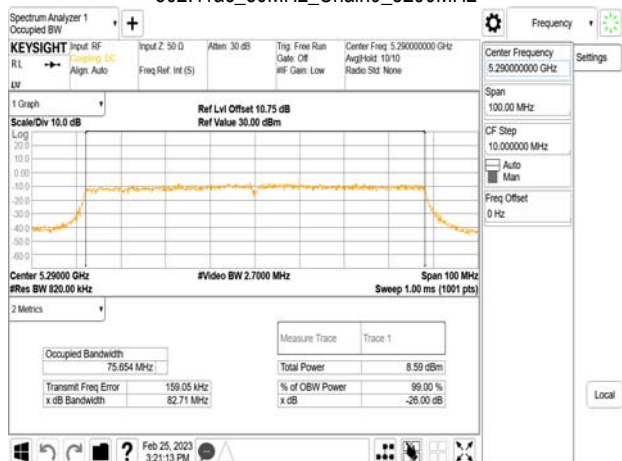
802.11ac_80MHz_Chain0_5210MHz



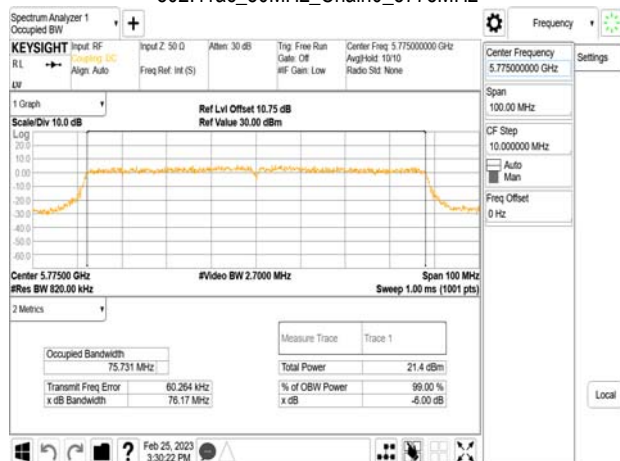
802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain1_5210MHz



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802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5610MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.1.2 Output Power

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.
2. For the 10 log B, B is the 26 dB emission bandwidth.

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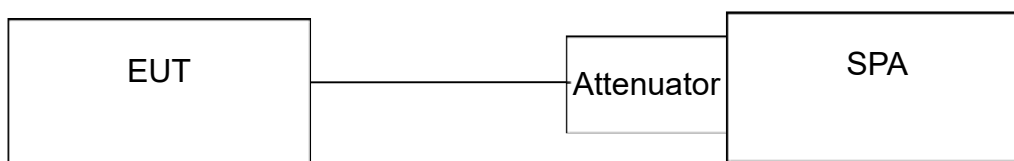
FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	$-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$ $-42 \text{ dBW/MHz for } \theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

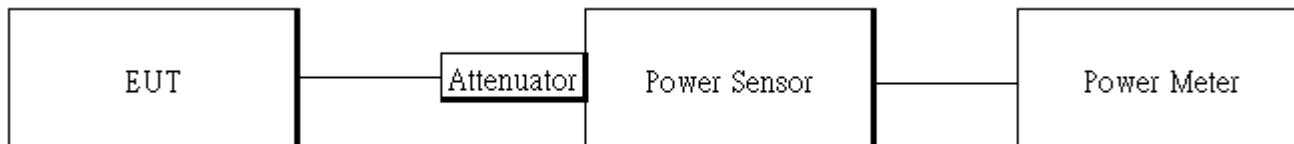
2. For the $10 \log B$, B is the 99% emission bandwidth.

9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



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9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi in MIMO mode, therefore the the power density limit attenuation has been applied in the test results.

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9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	95.82	0.19	0.48	1.00
802.11n_20	95.72	0.19	0.52	1.00
802.11ac_20	92.02	0.36	1.01	2.00
802.11n_40	92.58	0.33	1.05	2.00
802.11ac_40	86.81	0.61	2.00	2.00
802.11ac_80	75.29	1.23	3.91	4.00

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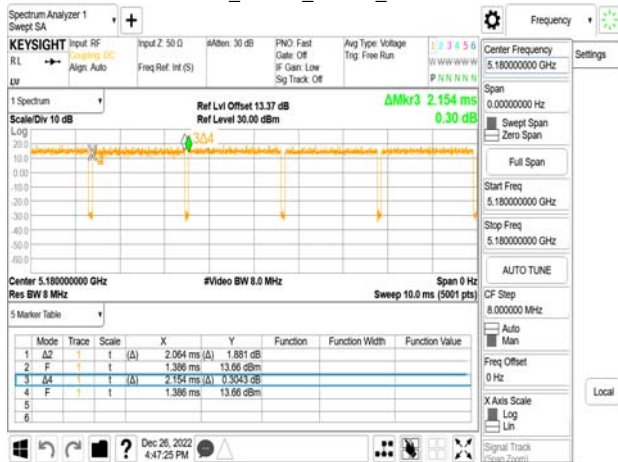
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802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	10	9.66	9.237	23.98	PASS
44	5220	6	10	9.64	9.195	23.98	PASS
48	5240	6	10	9.51	8.924	23.98	PASS
52	5260	6	18	17.51	56.305	23.98	PASS
60	5300	6	18	17.64	58.015	23.98	PASS
64	5320	6	16	15.71	37.200	23.98	PASS
100	5500	6	14	13.37	21.704	23.98	PASS
116	5580	6	18	17.43	55.277	23.98	PASS
140	5700	6	8	8.08	6.420	23.98	PASS
149	5745	6	18	17.84	60.750	30	PASS
157	5785	6	18	17.75	59.504	30	PASS
165	5825	6	18	17.61	57.616	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	9	8.72	7.440	23.98	PASS
44	5220	6	9	8.81	7.595	23.98	PASS
48	5240	6	9	9.01	7.953	23.98	PASS
52	5260	6	17	16.96	49.607	23.98	PASS
60	5300	6	17	17.11	51.350	23.98	PASS
64	5320	6	15	15.22	33.231	23.98	PASS
100	5500	6	13	12.47	17.642	23.98	PASS
116	5580	6	16	15.89	38.774	23.98	PASS
140	5700	6	7	7.07	5.088	23.98	PASS
149	5745	6	16	15.97	39.495	30	PASS
157	5785	6	17	17.05	50.646	30	PASS
165	5825	6	17	17.06	50.763	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	10	10.95544	10.65544	13.82	24.090	21.97	PASS
44	5220	6	10	10.75544	10.80544	13.79	23.938	21.97	PASS
48	5240	6	10	10.55544	11.14544	13.87	24.382	21.97	PASS
52	5260	6	17	17.62544	18.08544	20.87	122.231	21.97	PASS
60	5300	6	17	17.49544	18.00544	20.77	119.350	21.97	PASS
64	5320	6	15	15.54544	16.35544	18.98	79.060	21.97	PASS
100	5500	6	12	12.46544	12.73544	15.61	36.415	21.97	PASS
116	5580	6	17	17.43544	18.03544	20.76	119.017	21.97	PASS
140	5700	6	7	8.115438	8.255438	11.20	13.171	21.97	PASS
149	5745	6	17	17.46544	17.84544	20.67	116.678	27.99	PASS
157	5785	6	17	17.45544	18.09544	20.80	120.158	27.99	PASS
165	5825	6	17	17.76544	18.04544	20.92	123.538	27.99	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10	9.42	8.750	23.98	PASS
44	5220	MCS0	10	9.46	8.831	23.98	PASS
48	5240	MCS0	11	10.14	10.328	23.98	PASS
52	5260	MCS0	18	17.34	54.200	23.98	PASS
60	5300	MCS0	18	17.46	55.718	23.98	PASS
64	5320	MCS0	16	15.55	35.892	23.98	PASS
100	5500	MCS0	13	12.18	16.520	23.98	PASS
116	5580	MCS0	18	17.31	53.827	23.98	PASS
140	5700	MCS0	12	11.72	14.859	23.98	PASS
149	5745	MCS0	18	17.72	59.156	30	PASS
157	5785	MCS0	18	14.58	28.708	30	PASS
165	5825	MCS0	18	17.48	55.975	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10	9.48	8.872	23.98	PASS
44	5220	MCS0	10	9.65	9.226	23.98	PASS
48	5240	MCS0	10	9.72	9.376	23.98	PASS
52	5260	MCS0	17	16.83	48.194	23.98	PASS
60	5300	MCS0	17	17.02	50.350	23.98	PASS
64	5320	MCS0	15	14.94	31.189	23.98	PASS
100	5500	MCS0	13	12.26	16.827	23.98	PASS
116	5580	MCS0	17	16.78	47.643	23.98	PASS
140	5700	MCS0	11	10.93	12.388	23.98	PASS
149	5745	MCS0	17	16.93	49.317	30	PASS
157	5785	MCS0	17	16.87	48.640	30	PASS
165	5825	MCS0	17	16.95	49.545	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	10	9.749973	9.779973	12.78	18.947	21.97	PASS
44	5220	MCS0	10	9.659973	9.829973	12.76	18.863	21.97	PASS
48	5240	MCS0	10	9.309973	10.00997	12.68	18.554	21.97	PASS
52	5260	MCS0	17	16.56997	17.09997	19.85	96.680	21.97	PASS
60	5300	MCS0	17	16.59997	17.27997	19.96	99.165	21.97	PASS
64	5320	MCS0	15	14.61997	15.17997	17.92	61.934	21.97	PASS
100	5500	MCS0	12	11.41997	11.73997	14.59	28.795	21.97	PASS
116	5580	MCS0	17	16.55997	17.07997	19.84	96.340	21.97	PASS
140	5700	MCS0	11	10.86997	11.40997	14.16	26.053	21.97	PASS
149	5745	MCS0	17	16.76997	17.35997	20.09	101.983	27.99	PASS
157	5785	MCS0	17	16.67997	17.23997	19.98	99.524	27.99	PASS
165	5825	MCS0	17	16.64997	17.24997	19.97	99.326	27.99	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11	11.21	13.228	23.98	PASS
46	5230	MCS0	11	11.29	13.474	23.98	PASS
54	5270	MCS0	18	18.22	66.448	23.98	PASS
62	5310	MCS0	12	12.04	16.013	23.98	PASS
102	5510	MCS0	12	12.01	15.903	23.98	PASS
110	5550	MCS0	18	18.16	65.536	23.98	PASS
134	5670	MCS0	12	12.47	17.680	23.98	PASS
151	5755	MCS0	18	18.62	72.859	30	PASS
159	5795	MCS0	18	18.57	72.025	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10	10.37	10.901	23.98	PASS
46	5230	MCS0	10	10.46	11.130	23.98	PASS
54	5270	MCS0	17	17.57	57.211	23.98	PASS
62	5310	MCS0	12	12.62	18.301	23.98	PASS
102	5510	MCS0	12	12.09	16.199	23.98	PASS
110	5550	MCS0	17	17.65	58.275	23.98	PASS
134	5670	MCS0	12	12.64	18.386	23.98	PASS
151	5755	MCS0	17	17.96	62.587	30	PASS
159	5795	MCS0	17	17.77	59.908	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	10	10.50483	10.55483	13.54	22.595	21.97	PASS
46	5230	MCS0	10	10.48483	10.64483	13.58	22.782	21.97	PASS
54	5270	MCS0	17	17.46483	17.91483	20.71	117.651	21.97	PASS
62	5310	MCS0	9	9.264828	9.994828	12.66	18.431	21.97	PASS
102	5510	MCS0	11	11.22483	11.60483	14.43	27.729	21.97	PASS
110	5550	MCS0	17	17.35483	18.03483	20.72	117.989	21.97	PASS
134	5670	MCS0	12	12.49483	12.81483	15.67	36.881	21.97	PASS
151	5755	MCS0	17	17.64483	18.10483	20.89	122.778	27.99	PASS
159	5795	MCS0	17	17.59483	18.14483	20.89	122.711	27.99	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10	9.65	9.228	23.98	PASS
44	5220	MCS0	10	9.59	9.102	23.98	PASS
48	5240	MCS0	10	9.52	8.956	23.98	PASS
52	5260	MCS0	18	17.53	56.639	23.98	PASS
60	5300	MCS0	17	16.70	46.786	23.98	PASS
64	5320	MCS0	16	15.67	36.908	23.98	PASS
100	5500	MCS0	13	12.34	17.144	23.98	PASS
116	5580	MCS0	18	17.39	54.843	23.98	PASS
140	5700	MCS0	11	10.89	12.278	23.98	PASS
149	5745	MCS0	17	16.88	48.766	30	PASS
157	5785	MCS0	18	17.75	59.582	30	PASS
165	5825	MCS0	18	17.57	57.163	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9	9.74	9.421	23.98	PASS
44	5220	MCS0	9	9.89	9.753	23.98	PASS
48	5240	MCS0	10	10.04	10.095	23.98	PASS
52	5260	MCS0	17	18.15	65.331	23.98	PASS
60	5300	MCS0	16	17.08	51.064	23.98	PASS
64	5320	MCS0	15	16.23	41.987	23.98	PASS
100	5500	MCS0	12	12.48	17.706	23.98	PASS
116	5580	MCS0	17	18.11	64.732	23.98	PASS
140	5700	MCS0	11	11.07	12.797	23.98	PASS
149	5745	MCS0	16	17.20	52.495	30	PASS
157	5785	MCS0	17	18.17	65.632	30	PASS
165	5825	MCS0	17	18.21	66.240	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	10	9.581178	9.821178	12.71	18.677	21.97	PASS
44	5220	MCS0	10	9.601178	9.881178	12.75	18.853	21.97	PASS
48	5240	MCS0	9	8.581178	9.041178	11.83	15.232	21.97	PASS
52	5260	MCS0	17	16.64118	17.01118	19.84	96.392	21.97	PASS
60	5300	MCS0	17	16.61118	17.23118	19.94	98.685	21.97	PASS
64	5320	MCS0	15	14.49118	15.26118	17.90	61.710	21.97	PASS
100	5500	MCS0	12	11.45118	11.69118	14.58	28.729	21.97	PASS
116	5580	MCS0	17	16.48118	17.14118	19.83	96.250	21.97	PASS
140	5700	MCS0	11	10.92118	11.34118	14.15	25.981	21.97	PASS
149	5745	MCS0	17	16.78118	17.33118	20.08	101.746	27.99	PASS
157	5785	MCS0	17	16.69118	17.19118	19.96	99.053	27.99	PASS
165	5825	MCS0	17	16.63118	17.22118	19.95	98.775	27.99	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10	10.56	11.388	23.98	PASS
46	5230	MCS0	10	10.59	11.466	23.98	PASS
54	5270	MCS0	17	17.64	58.134	23.98	PASS
62	5310	MCS0	12	12.28	16.921	23.98	PASS
102	5510	MCS0	11	11.25	13.348	23.98	PASS
110	5550	MCS0	17	17.50	56.290	23.98	PASS
134	5670	MCS0	11	11.67	14.704	23.98	PASS
151	5755	MCS0	17	17.84	60.874	30	PASS
159	5795	MCS0	17	17.75	59.625	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9	9.59	9.108	23.98	PASS
46	5230	MCS0	9	9.78	9.515	23.98	PASS
54	5270	MCS0	17	17.97	62.723	23.98	PASS
62	5310	MCS0	11	12.08	16.160	23.98	PASS
102	5510	MCS0	11	11.59	14.435	23.98	PASS
110	5550	MCS0	16	16.93	49.366	23.98	PASS
134	5670	MCS0	11	11.97	15.755	23.98	PASS
151	5755	MCS0	16	16.95	49.594	30	PASS
159	5795	MCS0	17	18.13	65.077	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	10	10.2843	10.4243	13.37	21.703	21.97	PASS
46	5230	MCS0	10	10.2743	10.5543	13.43	22.013	21.97	PASS
54	5270	MCS0	17	17.4443	17.8843	20.68	116.955	21.97	PASS
62	5310	MCS0	9	9.174302	9.964302	12.60	18.187	21.97	PASS
102	5510	MCS0	11	11.1843	11.6043	14.41	27.604	21.97	PASS
110	5550	MCS0	17	17.3443	17.9843	20.69	117.122	21.97	PASS
134	5670	MCS0	11	11.6243	12.0943	14.88	30.732	21.97	PASS
151	5755	MCS0	16	16.6743	17.0443	19.87	97.130	27.99	PASS
159	5795	MCS0	17	17.6343	18.0843	20.88	122.333	27.99	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	10	10.39	10.946	23.98	PASS
58	5290	MCS0	5	5.56	3.600	23.98	PASS
106	5530	MCS0	9	9.32	8.556	23.98	PASS
122	5610	MCS0	17	17.46	55.752	23.98	PASS
155	5775	MCS0	17	17.65	58.246	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9	9.67	9.274	23.98	PASS
58	5290	MCS0	5	6.14	4.114	23.98	PASS
106	5530	MCS0	9	9.64	9.210	23.98	PASS
122	5610	MCS0	16	16.94	49.461	23.98	PASS
155	5775	MCS0	16	16.91	49.120	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	8	8.152627	8.432627	11.31	13.506	21.97	PASS
58	5290	MCS0	5	5.382627	5.892627	8.66	7.337	21.97	PASS
106	5530	MCS0	9	9.182627	9.562627	12.39	17.326	21.97	PASS
122	5610	MCS0	17	17.22263	17.84263	20.55	113.605	21.97	PASS
155	5775	MCS0	16	16.24263	16.72263	19.50	89.116	27.99	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.51	56.305	23.21	PASS
60	5300	17.64	58.015	23.2	PASS
64	5320	15.71	37.200	23.18	PASS
100	5500	13.37	21.704	23.18	PASS
116	5580	17.43	55.277	23.21	PASS
140	5700	8.08	6.420	23.18	PASS
149	5745	17.84	60.750	30	PASS
157	5785	17.75	59.504	30	PASS
165	5825	17.61	57.616	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.96	49.607	23.19	PASS
60	5300	17.11	51.350	23.19	PASS
64	5320	15.22	33.231	23.18	PASS
100	5500	12.47	17.642	23.18	PASS
116	5580	15.89	38.774	23.2	PASS
140	5700	7.07	5.088	23.18	PASS
149	5745	15.97	39.495	30	PASS
157	5785	17.05	50.646	30	PASS
165	5825	17.06	50.763	30	PASS

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.62544	18.08544	20.87	122.231	23.19	PASS
60	5300	17.49544	18.00544	20.77	119.350	23.19	PASS
64	5320	15.54544	16.35544	18.98	79.060	23.18	PASS
100	5500	12.46544	12.73544	15.61	36.415	23.18	PASS
116	5580	17.43544	18.03544	20.76	119.017	23.2	PASS
140	5700	8.115438	8.255438	11.20	13.171	23.18	PASS
149	5745	17.46544	17.84544	20.67	116.678	27.99	PASS
157	5785	17.45544	18.09544	20.80	120.158	27.99	PASS
165	5825	17.76544	18.04544	20.92	123.538	27.99	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.34	54.200	23.5	PASS
60	5300	17.46	55.718	23.51	PASS
64	5320	15.55	35.892	23.49	PASS
100	5500	12.18	16.520	23.49	PASS
116	5580	17.31	53.827	23.5	PASS
140	5700	11.72	14.859	23.5	PASS
149	5745	17.72	59.156	30	PASS
157	5785	14.58	28.708	30	PASS
165	5825	17.48	55.975	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.83	48.194	23.49	PASS
60	5300	17.02	50.350	23.49	PASS
64	5320	14.94	31.189	23.48	PASS
100	5500	12.26	16.827	23.49	PASS
116	5580	16.78	47.643	23.5	PASS
140	5700	10.93	12.388	23.48	PASS
149	5745	16.93	49.317	30	PASS
157	5785	16.87	48.640	30	PASS
165	5825	16.95	49.545	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	16.56997	17.09997	19.85	96.680	23.49	PASS
60	5300	16.59997	17.27997	19.96	99.165	23.49	PASS
64	5320	14.61997	15.17997	17.92	61.934	23.48	PASS
100	5500	11.41997	11.73997	14.59	28.795	23.49	PASS
116	5580	16.55997	17.07997	19.84	96.340	23.5	PASS
140	5700	10.86997	11.40997	14.16	26.053	23.48	PASS
149	5745	16.76997	17.35997	20.09	101.983	27.99	PASS
157	5785	16.67997	17.23997	19.98	99.524	27.99	PASS
165	5825	16.64997	17.24997	19.97	99.326	27.99	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	18.22	66.448	23.98	PASS
62	5310	12.04	16.013	23.98	PASS
102	5510	12.01	15.903	23.98	PASS
110	5550	18.16	65.536	23.98	PASS
134	5670	12.47	17.680	23.98	PASS
151	5755	18.62	72.859	30	PASS
159	5795	18.57	72.025	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.57	57.211	23.98	PASS
62	5310	12.62	18.301	23.98	PASS
102	5510	12.09	16.199	23.98	PASS
110	5550	17.65	58.275	23.98	PASS
134	5670	12.64	18.386	23.98	PASS
151	5755	17.96	62.587	30	PASS
159	5795	17.77	59.908	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	17.46483	17.91483	20.71	117.651	23.98	PASS
62	5310	9.264828	9.994828	12.66	18.431	23.98	PASS
102	5510	11.22483	11.60483	14.43	27.729	23.98	PASS
110	5550	17.35483	18.03483	20.72	117.989	23.98	PASS
134	5670	12.49483	12.81483	15.67	36.881	23.98	PASS
151	5755	17.64483	18.10483	20.89	122.778	27.99	PASS
159	5795	17.59483	18.14483	20.89	122.711	27.99	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.53	56.639	23.5	PASS
60	5300	16.70	46.786	23.51	PASS
64	5320	15.67	36.908	23.49	PASS
100	5500	12.34	17.144	23.49	PASS
116	5580	17.39	54.843	23.5	PASS
140	5700	10.89	12.278	23.5	PASS
149	5745	16.88	48.766	30	PASS
157	5785	17.75	59.582	30	PASS
165	5825	17.57	57.163	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.15	65.331	23.49	PASS
60	5300	17.08	51.064	23.49	PASS
64	5320	16.23	41.987	23.48	PASS
100	5500	12.48	17.706	23.49	PASS
116	5580	18.11	64.732	23.5	PASS
140	5700	11.07	12.797	23.48	PASS
149	5745	17.20	52.495	30	PASS
157	5785	18.17	65.632	30	PASS
165	5825	18.21	66.240	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	16.64118	17.01118	19.84	96.392	23.49	PASS
60	5300	16.61118	17.23118	19.94	98.685	23.49	PASS
64	5320	14.49118	15.26118	17.90	61.710	23.48	PASS
100	5500	11.45118	11.69118	14.58	28.729	23.49	PASS
116	5580	16.48118	17.14118	19.83	96.250	23.5	PASS
140	5700	10.92118	11.34118	14.15	25.981	23.48	PASS
149	5745	16.78118	17.33118	20.08	101.746	27.99	PASS
157	5785	16.69118	17.19118	19.96	99.053	27.99	PASS
165	5825	16.63118	17.22118	19.95	98.775	27.99	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.64	58.134	23.98	PASS
62	5310	12.28	16.921	23.98	PASS
102	5510	11.25	13.348	23.98	PASS
110	5550	17.50	56.290	23.98	PASS
134	5670	11.67	14.704	23.98	PASS
151	5755	17.84	60.874	30	PASS
159	5795	17.75	59.625	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.97	62.723	23.98	PASS
62	5310	12.08	16.160	23.98	PASS
102	5510	11.59	14.435	23.98	PASS
110	5550	16.93	49.366	23.98	PASS
134	5670	11.97	15.755	23.98	PASS
151	5755	16.95	49.594	30	PASS
159	5795	18.13	65.077	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	17.4443	17.8843	20.68	116.955	23.98	PASS
62	5310	9.174302	9.964302	12.60	18.187	23.98	PASS
102	5510	11.1843	11.6043	14.41	27.604	23.98	PASS
110	5550	17.3443	17.9843	20.69	117.122	23.98	PASS
134	5670	11.6243	12.0943	14.88	30.732	23.98	PASS
151	5755	16.6743	17.0443	19.87	97.130	27.99	PASS
159	5795	17.6343	18.0843	20.88	122.333	27.99	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	5.56	3.600	23.98	PASS
106	5530	9.32	8.556	23.98	PASS
122	5610	17.46	55.752	23.98	PASS
155	5775	17.65	58.246	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	6.14	4.114	23.98	PASS
106	5530	9.64	9.210	23.98	PASS
122	5610	16.94	49.461	23.98	PASS
155	5775	16.91	49.120	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	5.382627	5.892627	8.66	7.337	23.98	PASS
106	5530	9.182627	9.562627	12.39	17.326	23.98	PASS
122	5610	17.22263	17.84263	20.55	113.605	23.98	PASS
155	5775	16.24263	16.72263	19.50	89.116	27.99	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.66	5.00	14.66	29.242	22.18	PASS
44	5220	9.64	5.00	14.64	29.107	22.18	PASS
48	5240	9.51	5.00	14.51	28.249	22.19	PASS
52	5260	17.51	5.00	22.51	178.238	29.21	PASS
60	5300	17.64	5.00	22.64	183.654	29.2	PASS
64	5320	15.71	5.00	20.71	117.761	29.18	PASS
100	5500	13.37	5.00	18.37	68.707	29.18	PASS
116	5580	17.43	5.00	22.43	174.985	29.21	PASS
140	5700	8.08	5.00	13.08	20.324	29.18	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	8.72	5.000	13.72	23.550	22.19	PASS
44	5220	8.81	5.000	13.81	24.044	22.18	PASS
48	5240	9.01	5.000	14.01	25.177	22.19	PASS
52	5260	16.96	5.000	21.96	157.036	29.19	PASS
60	5300	17.11	5.000	22.11	162.555	29.19	PASS
64	5320	15.22	5.000	20.22	105.196	29.18	PASS
100	5500	12.47	5.000	17.47	55.847	29.18	PASS
116	5580	15.89	5.000	20.89	122.744	29.2	PASS
140	5700	7.07	5.000	12.07	16.106	29.18	PASS

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.82	8.01	21.83	152.405	22.18	PASS
44	5220	13.79	8.01	21.80	151.356	22.18	PASS
48	5240	13.87	8.01	21.88	154.170	22.19	PASS
52	5260	20.87	8.01	28.88	772.681	30	PASS
60	5300	20.77	8.01	28.78	755.092	30	PASS
64	5320	18.98	8.01	26.99	500.035	30	PASS
100	5500	15.61	8.01	23.62	230.144	29.18	PASS
116	5580	20.76	8.01	28.77	753.356	30	PASS
140	5700	11.20	8.01	19.21	83.368	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.42	5.00	14.42	27.669	22.49	PASS
44	5220	9.46	5.00	14.46	27.925	22.48	PASS
48	5240	10.14	5.00	15.14	32.659	22.49	PASS
52	5260	17.34	5.00	22.34	171.396	29.5	PASS
60	5300	17.46	5.00	22.46	176.198	29.51	PASS
64	5320	15.55	5.00	20.55	113.501	29.49	PASS
100	5500	12.18	5.00	17.18	52.240	29.49	PASS
116	5580	17.31	5.00	22.31	170.216	29.5	PASS
140	5700	11.72	5.00	16.72	46.989	29.5	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.48	5.000	14.48	28.054	22.49	PASS
44	5220	9.65	5.000	14.65	29.174	22.49	PASS
48	5240	9.72	5.000	14.72	29.648	22.48	PASS
52	5260	16.83	5.000	21.83	152.405	29.49	PASS
60	5300	17.02	5.000	22.02	159.221	29.49	PASS
64	5320	14.94	5.000	19.94	98.628	29.48	PASS
100	5500	12.26	5.000	17.26	53.211	29.49	PASS
116	5580	16.78	5.000	21.78	150.661	29.5	PASS
140	5700	10.93	5.000	15.93	39.174	29.48	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.78	8.01	20.79	119.950	22.49	PASS
44	5220	12.76	8.01	20.77	119.399	22.48	PASS
48	5240	12.68	8.01	20.69	117.220	22.48	PASS
52	5260	19.85	8.01	27.86	610.942	29.49	PASS
60	5300	19.96	8.01	27.97	626.614	29.49	PASS
64	5320	17.92	8.01	25.93	391.742	29.48	PASS
100	5500	14.59	8.01	22.60	181.970	29.49	PASS
116	5580	19.84	8.01	27.85	609.537	29.5	PASS
140	5700	14.16	8.01	22.17	164.816	29.48	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.21	5.00	16.21	41.783	23.01	PASS
46	5230	11.29	5.00	16.29	42.560	23.01	PASS
54	5270	18.22	5.00	23.22	209.894	30	PASS
62	5310	12.04	5.00	17.04	50.582	30	PASS
102	5510	12.01	5.00	17.01	50.234	30	PASS
110	5550	18.16	5.00	23.16	207.014	30	PASS
134	5670	12.47	5.00	17.47	55.847	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.37	5.000	15.37	34.435	23.01	PASS
46	5230	10.46	5.000	15.46	35.156	23.01	PASS
54	5270	17.57	5.000	22.57	180.717	30	PASS
62	5310	12.62	5.000	17.62	57.810	30	PASS
102	5510	12.09	5.000	17.09	51.168	30	PASS
110	5550	17.65	5.000	22.65	184.077	30	PASS
134	5670	12.64	5.000	17.64	58.076	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.54	8.01	21.55	142.889	23.01	PASS
46	5230	13.58	8.01	21.59	144.212	23.01	PASS
54	5270	20.71	8.01	28.72	744.732	30	PASS
62	5310	12.66	8.01	20.67	116.681	30	PASS
102	5510	14.43	8.01	22.44	175.388	30	PASS
110	5550	20.72	8.01	28.73	746.449	30	PASS
134	5670	15.67	8.01	23.68	233.346	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.65	5.00	14.65	29.174	22.49	PASS
44	5220	9.59	5.00	14.59	28.774	22.48	PASS
48	5240	9.52	5.00	14.52	28.314	22.49	PASS
52	5260	17.53	5.00	22.53	179.061	29.5	PASS
60	5300	16.70	5.00	21.70	147.911	29.51	PASS
64	5320	15.67	5.00	20.67	116.681	29.49	PASS
100	5500	12.34	5.00	17.34	54.200	29.49	PASS
116	5580	17.39	5.00	22.39	173.380	29.5	PASS
140	5700	10.89	5.00	15.89	38.815	29.5	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.74	5.000	14.74	29.785	22.49	PASS
44	5220	9.89	5.000	14.89	30.832	22.49	PASS
48	5240	10.04	5.000	15.04	31.915	22.48	PASS
52	5260	18.15	5.000	23.15	206.538	29.49	PASS
60	5300	17.08	5.000	22.08	161.436	29.49	PASS
64	5320	16.23	5.000	21.23	132.739	29.48	PASS
100	5500	12.48	5.000	17.48	55.976	29.49	PASS
116	5580	18.11	5.000	23.11	204.644	29.5	PASS
140	5700	11.07	5.000	16.07	40.458	29.48	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.71	8.01	20.72	118.032	22.49	PASS
44	5220	12.75	8.01	20.76	119.124	22.48	PASS
48	5240	11.83	8.01	19.84	96.383	22.48	PASS
52	5260	19.84	8.01	27.85	609.537	29.49	PASS
60	5300	19.94	8.01	27.95	623.735	29.49	PASS
64	5320	17.90	8.01	25.91	389.942	29.48	PASS
100	5500	14.58	8.01	22.59	181.552	29.49	PASS
116	5580	19.83	8.01	27.84	608.135	29.5	PASS
140	5700	14.15	8.01	22.16	164.437	29.48	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.56	5.00	15.56	35.975	23.01	PASS
46	5230	10.59	5.00	15.59	36.224	23.01	PASS
54	5270	17.64	5.00	22.64	183.654	30	PASS
62	5310	12.28	5.00	17.28	53.456	30	PASS
102	5510	11.25	5.00	16.25	42.170	30	PASS
110	5550	17.50	5.00	22.50	177.828	30	PASS
134	5670	11.67	5.00	16.67	46.452	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	9.59	5.000	14.59	28.774	23.01	PASS
46	5230	9.78	5.000	14.78	30.061	23.01	PASS
54	5270	17.97	5.000	22.97	198.153	30	PASS
62	5310	12.08	5.000	17.08	51.050	30	PASS
102	5510	11.59	5.000	16.59	45.604	30	PASS
110	5550	16.93	5.000	21.93	155.955	30	PASS
134	5670	11.97	5.000	16.97	49.774	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.37	8.01	21.38	137.404	23.01	PASS
46	5230	13.43	8.01	21.44	139.316	23.01	PASS
54	5270	20.68	8.01	28.69	739.605	30	PASS
62	5310	12.60	8.01	20.61	115.080	30	PASS
102	5510	14.41	8.01	22.42	174.582	30	PASS
110	5550	20.69	8.01	28.70	741.310	30	PASS
134	5670	14.88	8.01	22.89	194.536	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.39	5.00	15.39	34.594	23.01	PASS
58	5290	5.56	5.00	10.56	11.376	30	PASS
106	5530	9.32	5.00	14.32	27.040	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.67	5.000	14.67	29.309	23.01	PASS
58	5290	6.14	5.000	11.14	13.002	30	PASS
106	5530	9.64	5.000	14.64	29.107	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	11.31	8.01	19.32	85.507	23.01	PASS
58	5290	8.66	8.01	16.67	46.452	30	PASS
106	5530	12.39	8.01	20.40	109.648	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.				

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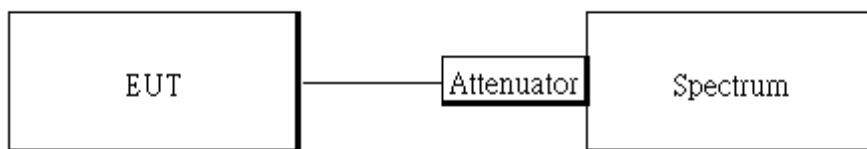
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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	V	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
	V	Other device	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

g_{j,k} = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi in MIMO mode, therefore the the power density limit attenuation has been applied in the test results.

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10.4 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-1.644	-1.875	0.19	1.44		8.99 dBm/MHz	-7.55
5220	-1.577	-1.748	0.19	1.54		8.99 dBm/MHz	-7.45
5240	-2.232	-2.325	0.19	0.92		8.99 dBm/MHz	-8.07
5260	5.211	5.097	0.19	8.35		8.99 dBm/MHz	-0.64
5300	4.497	4.262	0.19	7.58		8.99 dBm/MHz	-1.41
5320	2.441	3.023	0.19	5.94		8.99 dBm/MHz	-3.05
5500	0.413	0.160	0.19	3.49		8.99 dBm/MHz	-5.50
5580	5.417	5.788	0.19	8.81		8.99 dBm/MHz	-0.18
5700	-3.563	-3.036	0.19	-0.09		8.99 dBm/MHz	-9.08
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	1.616	1.991	0.19	2.22	7.23	27.99 dBm/500kHz	-20.76
5785	0.988	0.951	0.19	2.22	6.39	27.99 dBm/500kHz	-21.60
5825	0.206	0.564	0.19	2.22	5.81	27.99 dBm/500kHz	-22.18
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-2.242	-1.956	0.19	1.10		8.99 dBm/MHz	-7.89
5220	-1.879	-2.060	0.19	1.23		8.99 dBm/MHz	-7.76
5240	-2.701	-2.452	0.19	0.63		8.99 dBm/MHz	-8.36
5260	4.816	4.647	0.19	7.93		8.99 dBm/MHz	-1.06
5300	3.879	4.482	0.19	7.39		8.99 dBm/MHz	-1.60
5320	1.960	2.463	0.19	5.42		8.99 dBm/MHz	-3.57
5500	-0.703	-0.381	0.19	2.66		8.99 dBm/MHz	-6.33
5580	4.781	5.092	0.19	8.14		8.99 dBm/MHz	-0.85
5700	-0.493	0.786	0.19	3.39		8.99 dBm/MHz	-5.60
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	0.767	2.046	0.19	2.22	6.87	27.99 dBm/500kHz	-21.12
5785	0.542	0.470	0.19	2.22	5.93	27.99 dBm/500kHz	-22.06
5825	-0.826	0.356	0.19	2.22	5.23	27.99 dBm/500kHz	-22.76

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POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-4.386	-4.176	0.33	-0.94		8.99 dBm/MHz	-9.93
5230	-4.430	-4.893	0.33	-1.32		8.99 dBm/MHz	-10.31
5270	2.183	2.449	0.33	5.66		8.99 dBm/MHz	-3.33
5310	-6.515	-5.702	0.33	-2.75		8.99 dBm/MHz	-11.74
5510	-3.804	-2.902	0.33	0.01		8.99 dBm/MHz	-8.98
5550	2.838	3.210	0.33	6.37		8.99 dBm/MHz	-2.62
5670	-1.584	-1.879	0.33	1.61		8.99 dBm/MHz	-7.38
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-1.173	-1.036	0.33	2.22	4.46	27.99 dBm/500kHz	-23.53
5795	-1.794	-1.586	0.33	2.22	3.87	27.99 dBm/500kHz	-24.12
POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-10.970	-9.422	1.23	-5.89		8.99 dBm/MHz	-14.88
5290	-14.480	-13.450	1.23	-9.69		8.99 dBm/MHz	-18.68
5530	-9.942	-9.389	1.23	-5.42		8.99 dBm/MHz	-14.41
5610	-0.574	-0.028	1.23	3.95		8.99 dBm/MHz	-5.04
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-6.401	-6.269	1.23	2.22	0.13	27.99 dBm/500kHz	-27.86

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.44	8.01	9.45	10	-0.55
5220	1.54	8.01	9.55	10	-0.45
5240	0.92	8.01	8.93	10	-1.07
EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.10	8.01	9.11	10	-0.89
5220	1.23	8.01	9.24	10	-0.76
5240	0.63	8.01	8.64	10	-1.36
EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	-0.94	8.01	7.07	10	-2.93
5230	-1.32	8.01	6.69	10	-3.31
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-5.89	8.01	2.12	10	-7.88

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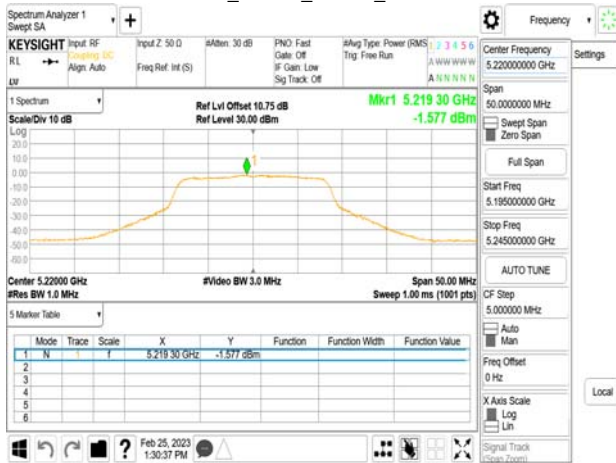
802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

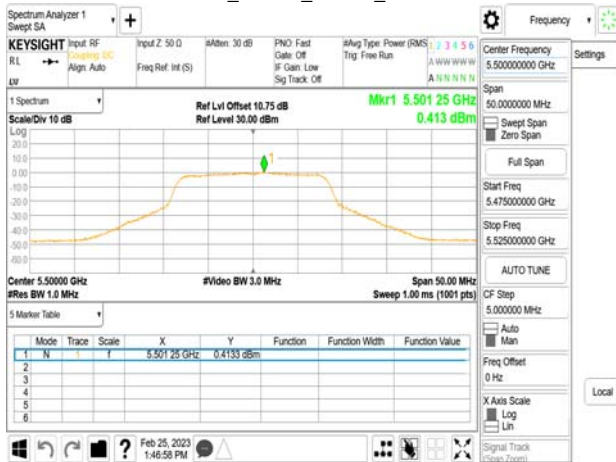


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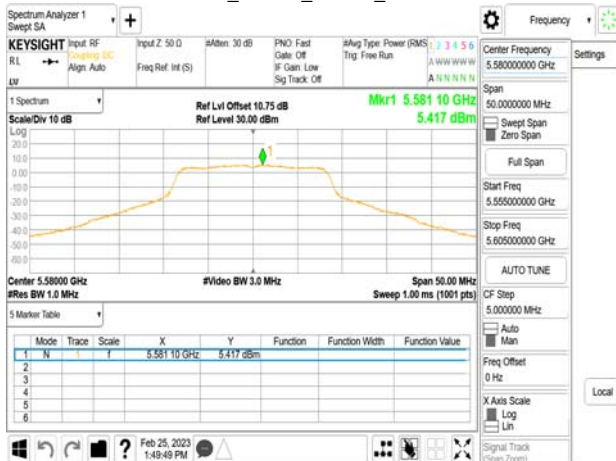
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz



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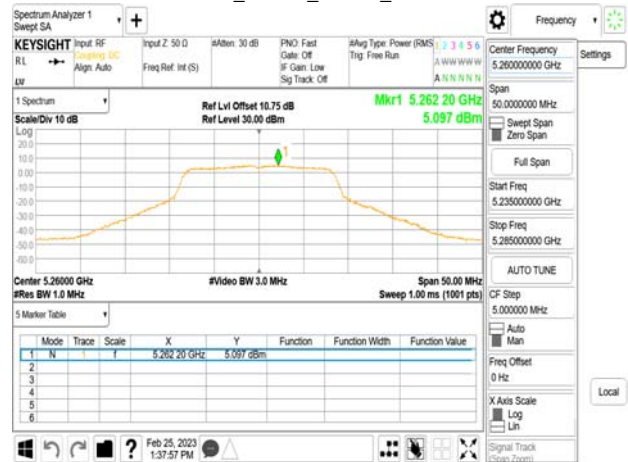
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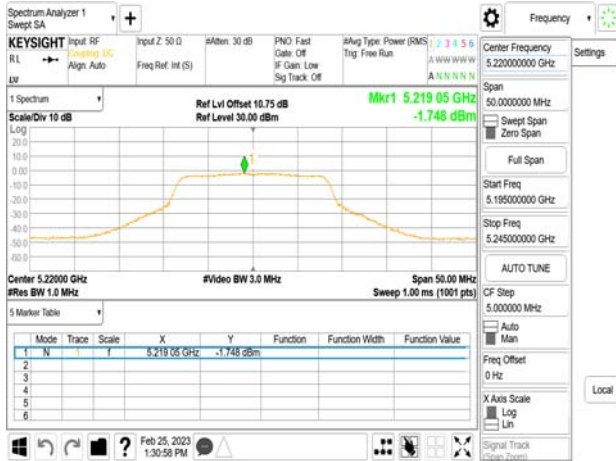
802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz



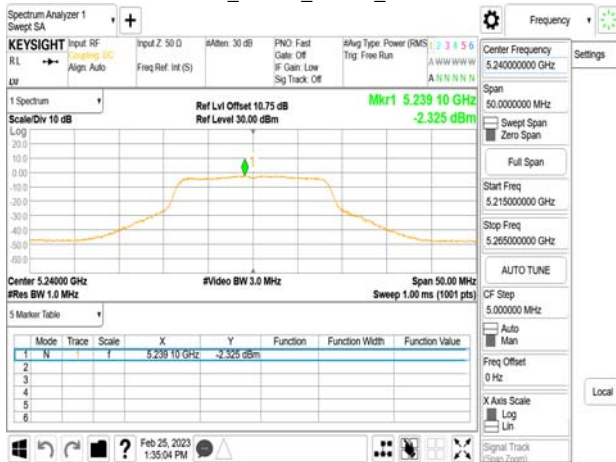
802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5320MHz



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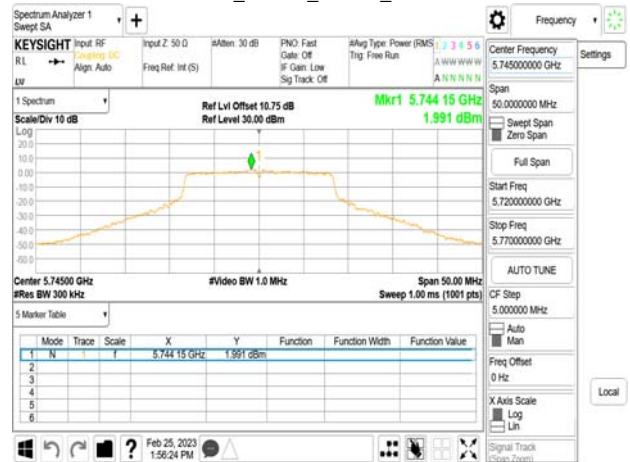
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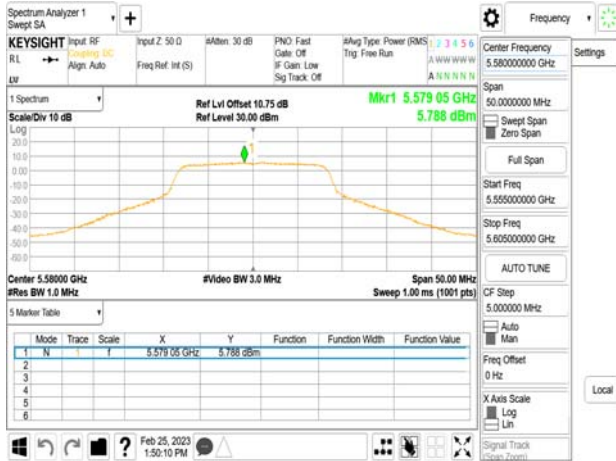
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5745MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5825MHz

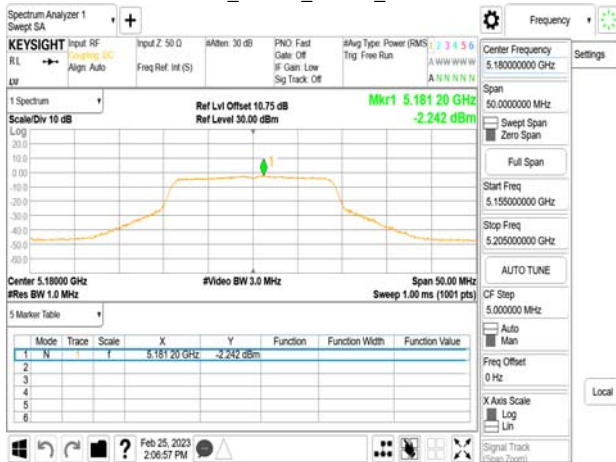


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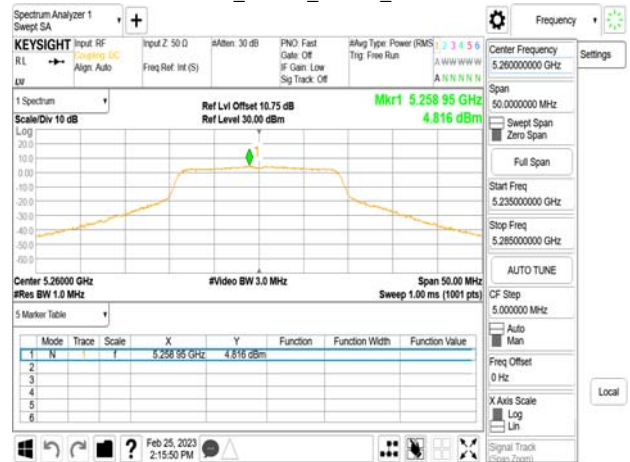
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802.11n_20MHz_Chain0_5180MHz



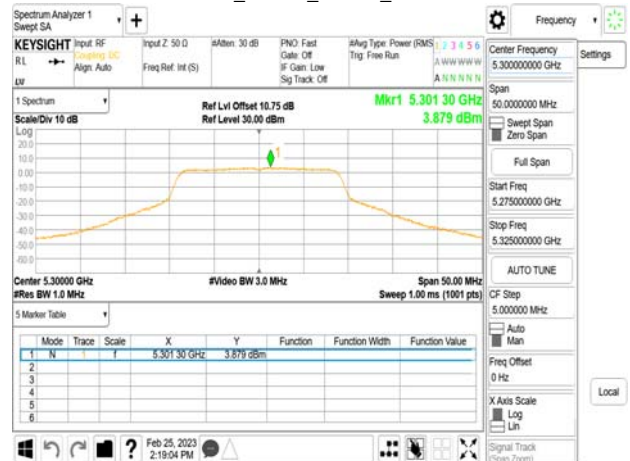
802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



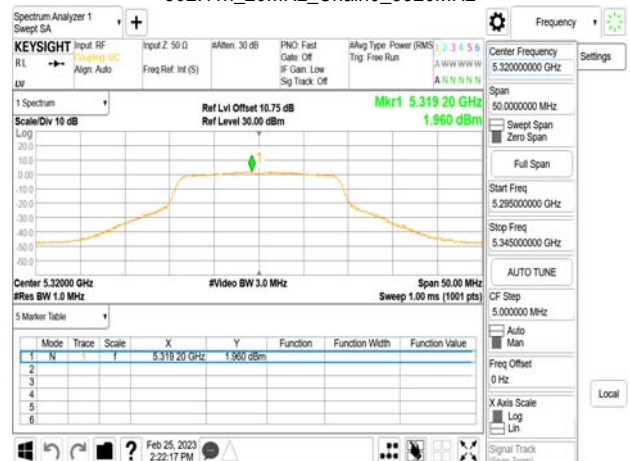
802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz



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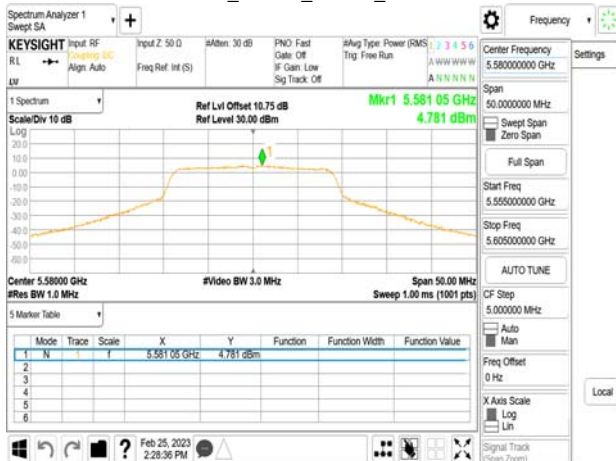
802.11n_20MHz_Chain0_5500MHz



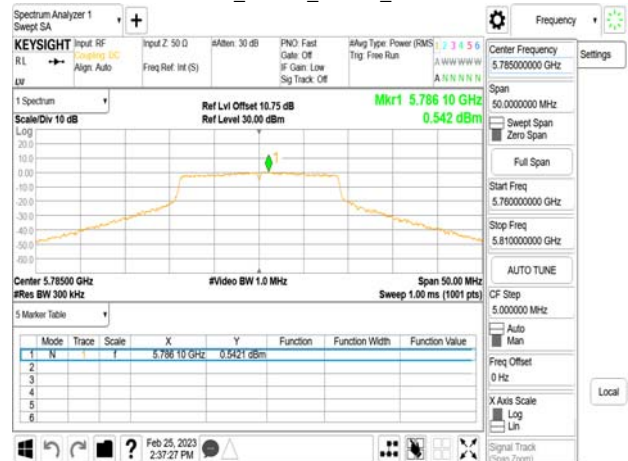
802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5825MHz



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802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5260MHz



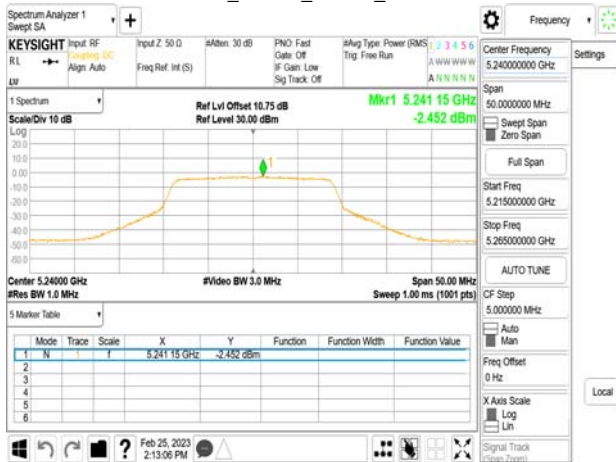
802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz



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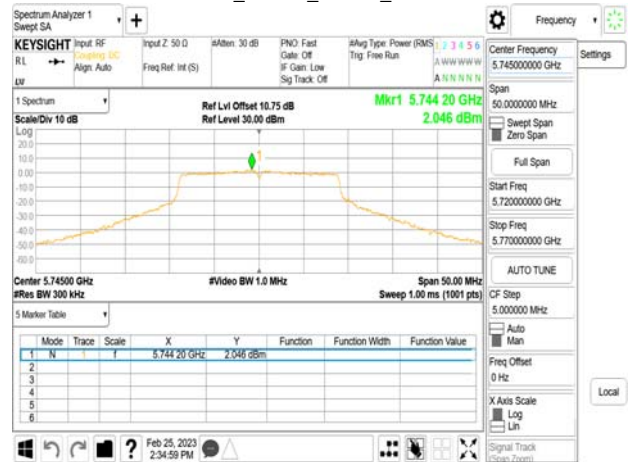
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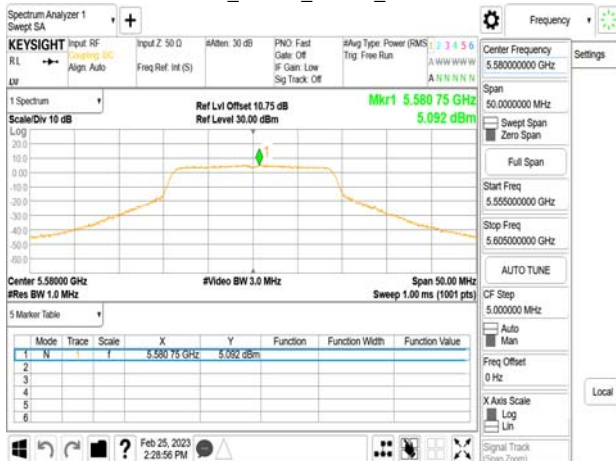
802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5745MHz



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz

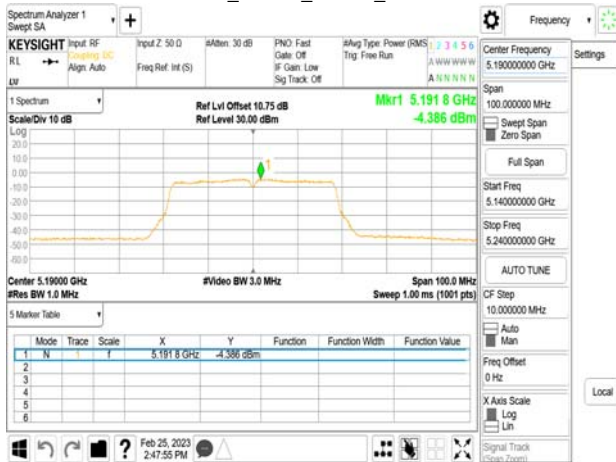


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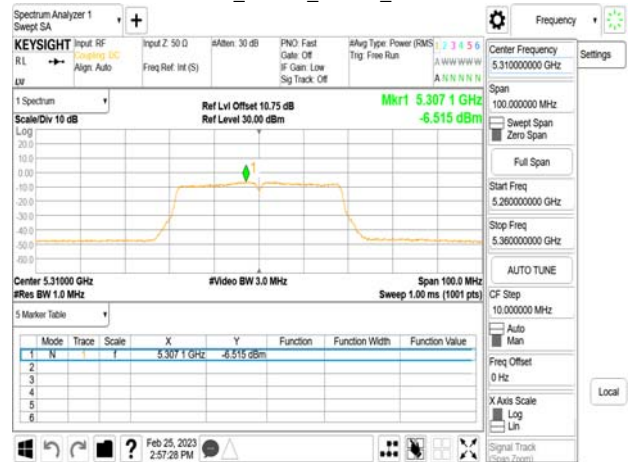
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802.11n_40MHz_Chain0_5190MHz



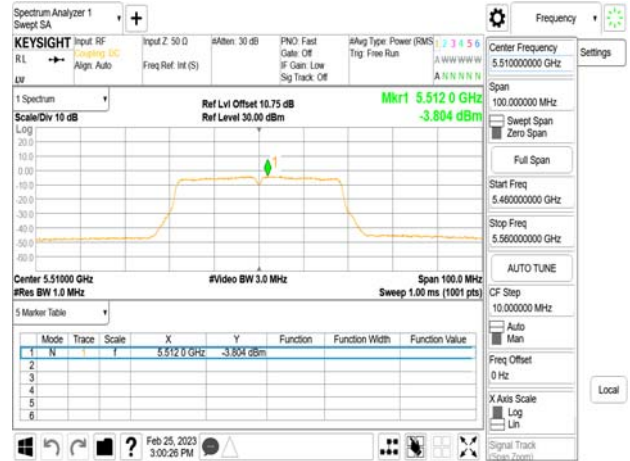
802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5230MHz



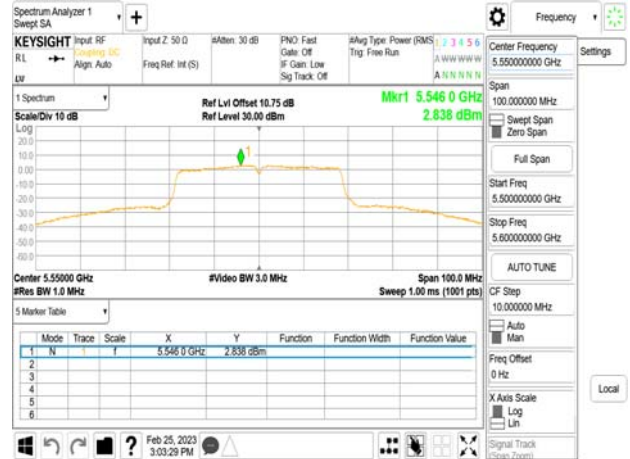
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



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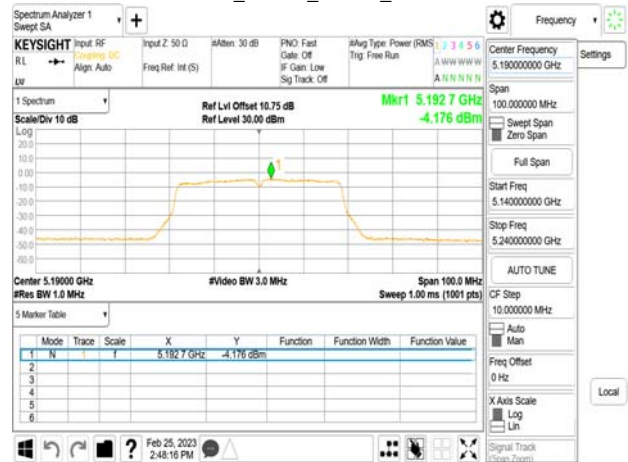
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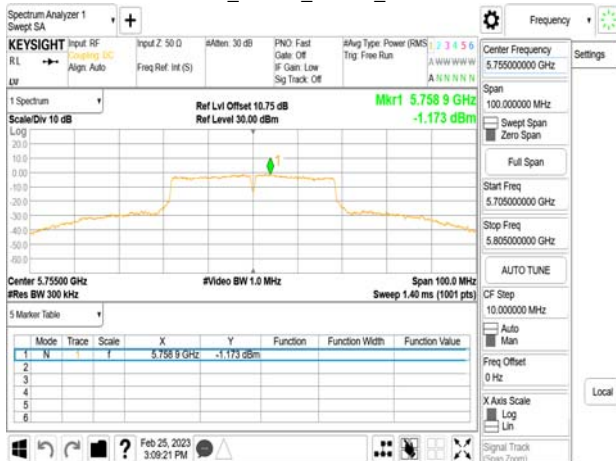
802.11n_40MHz_Chain0_5670MHz



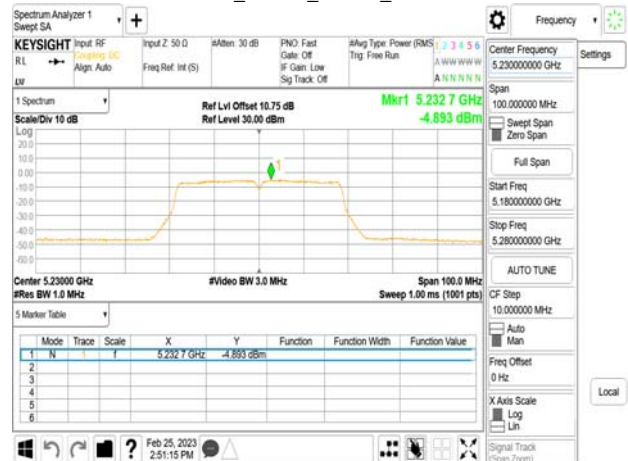
802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz

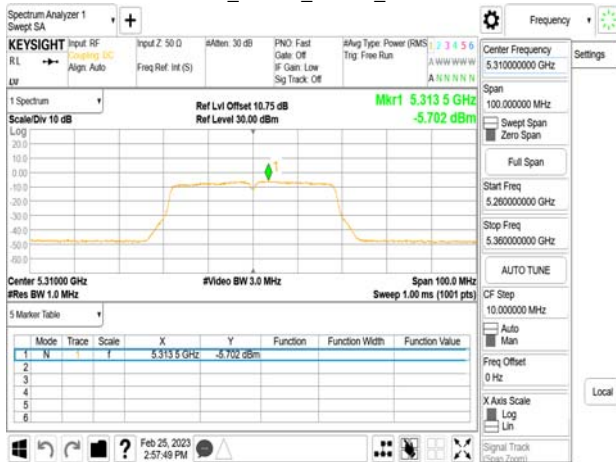


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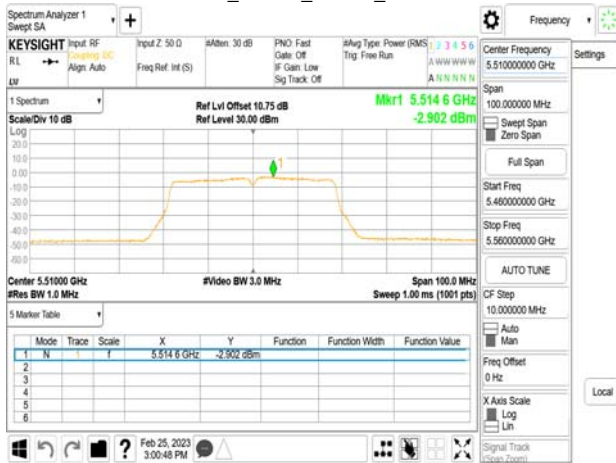
802.11n_40MHz_Chain1_5310MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5510MHz



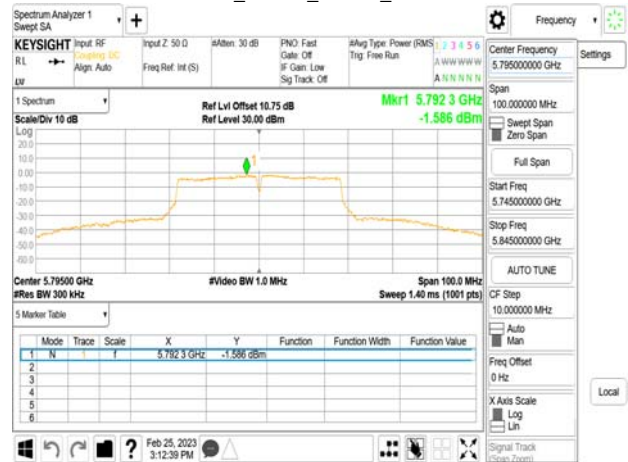
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5795MHz



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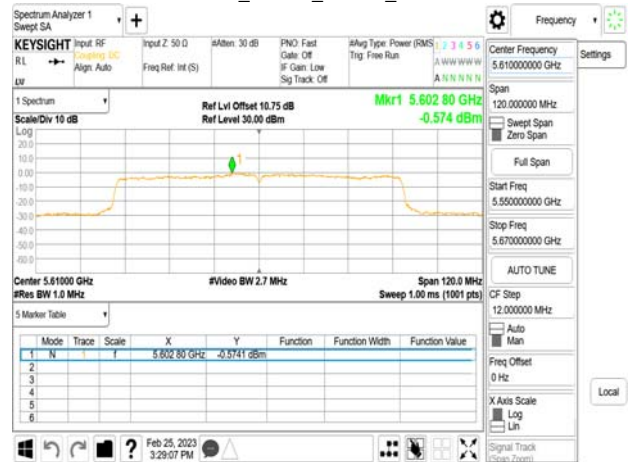
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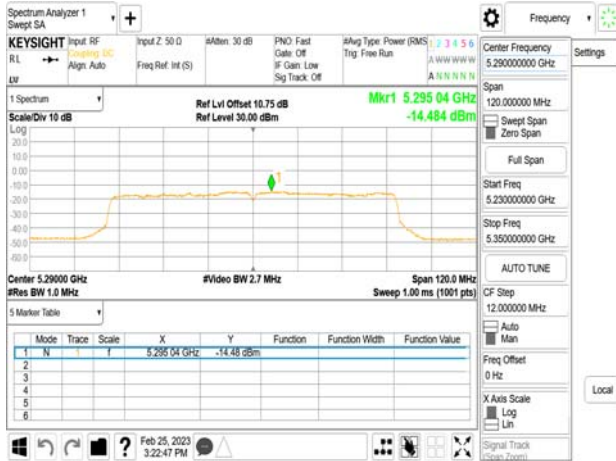
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain1_5210MHz



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802.11ac_80MHz_Chain1_5290MHz



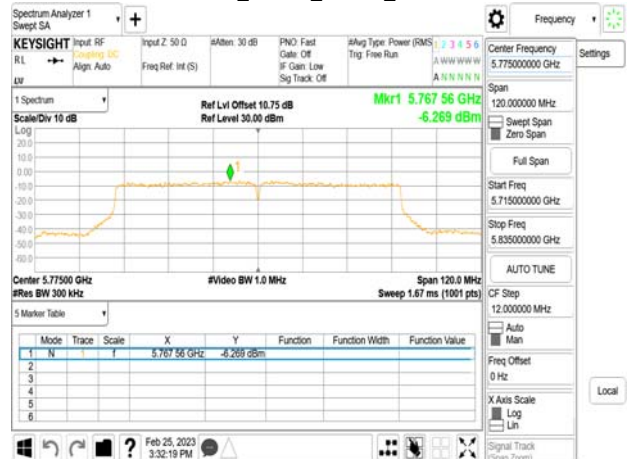
802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

$EIRP = (E^2 d^2) / 30$, where E is the field strength in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

11.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- The lower limit shall apply at the transition frequencies.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

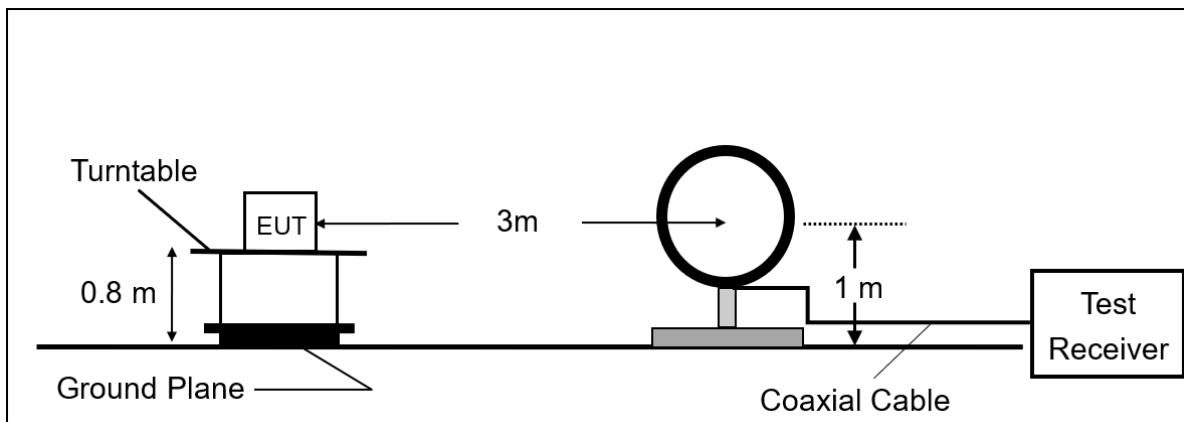
f (886-2) 2298-0488

www.sgs.com.tw

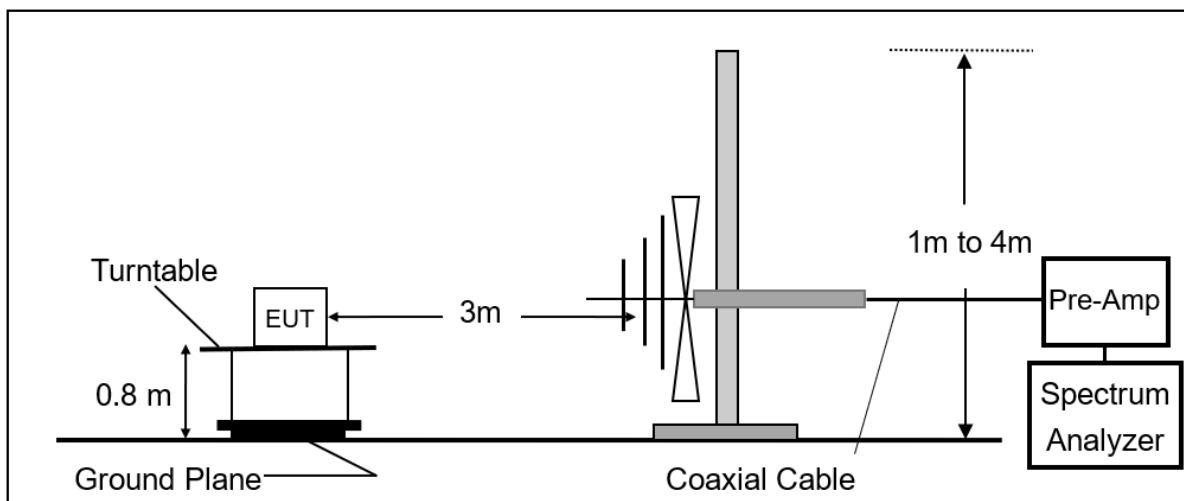
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11.2 Test Setup

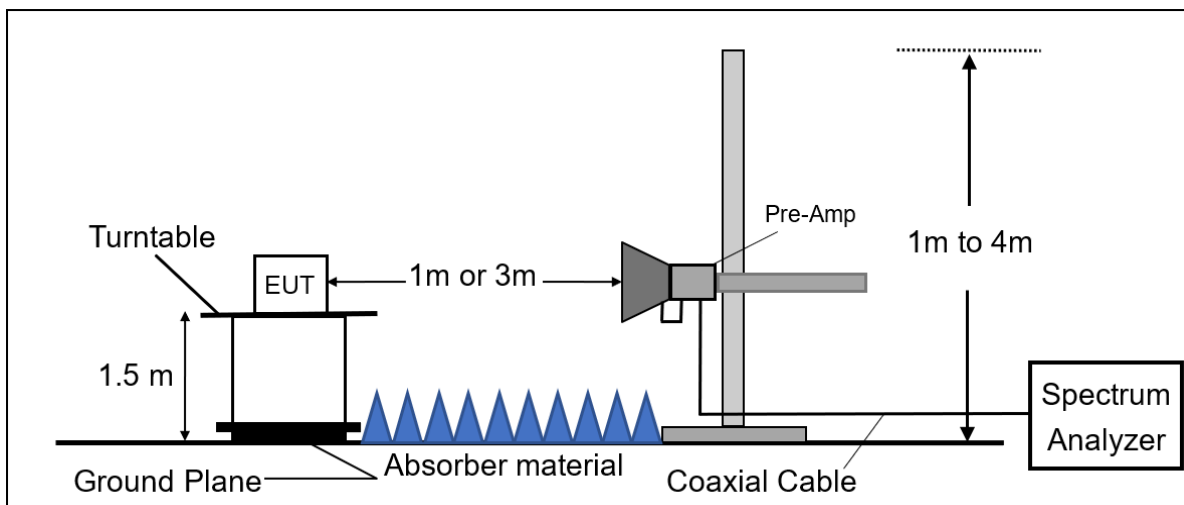
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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11.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

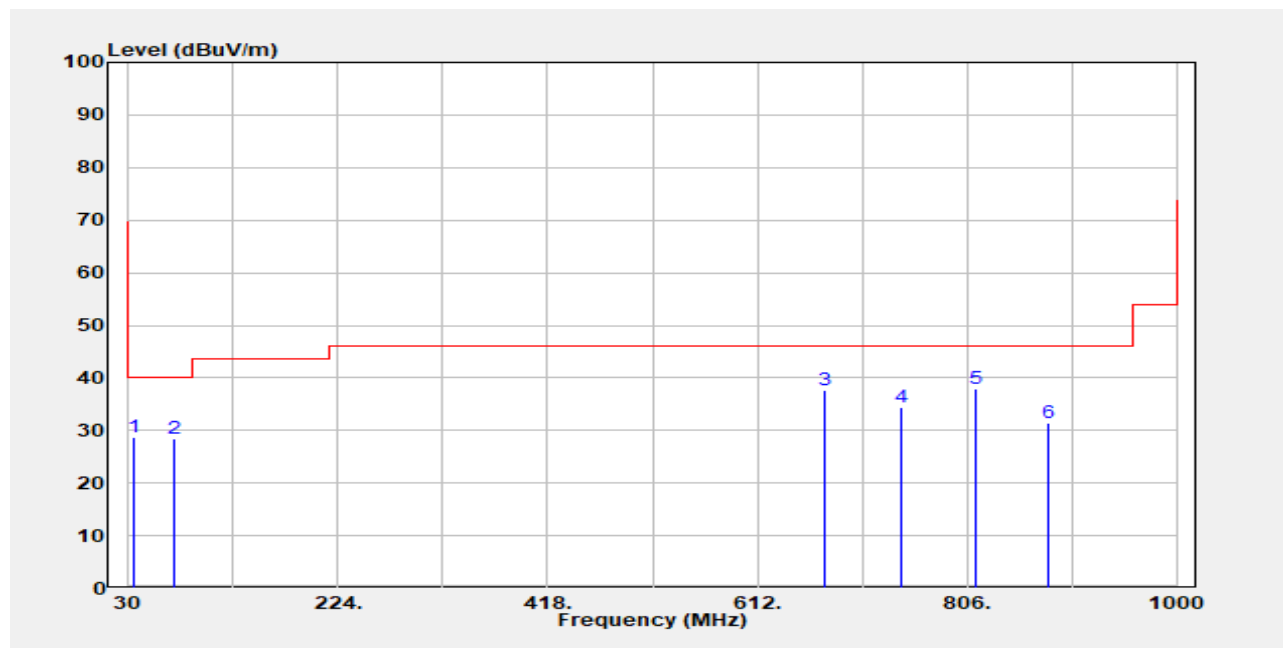
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

Internal Antenna (Type: Printed antenna, Model no: N/A)

Report Number	:TERF2212002706ER	Test Site	:SAC 1
Operation Mode	:802.11a	Test Date	:2023-02-13
Test Frequency	:5220 MHz	Temp./Humi.	:22.9/54
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:GN Lin



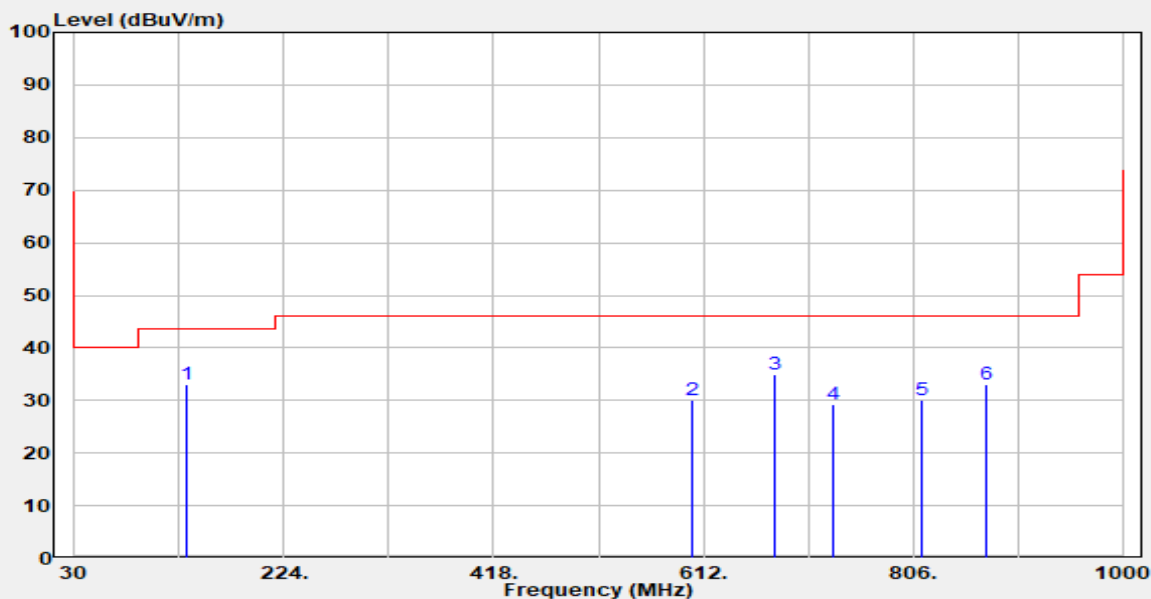
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
34.85	Peak	36.57	-7.87	28.71	40.00	-11.29
72.68	Peak	46.31	-17.94	28.37	40.00	-11.63
675.05	Peak	39.99	-2.38	37.61	46.00	-8.39
745.86	Peak	36.88	-2.45	34.44	46.00	-11.56
813.76	Peak	39.27	-1.31	37.96	46.00	-8.04
881.66	Peak	32.30	-0.98	31.32	46.00	-14.68

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Report Number :TERF2212002706ER
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-13
 Temp./Humi. :22.9/54
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



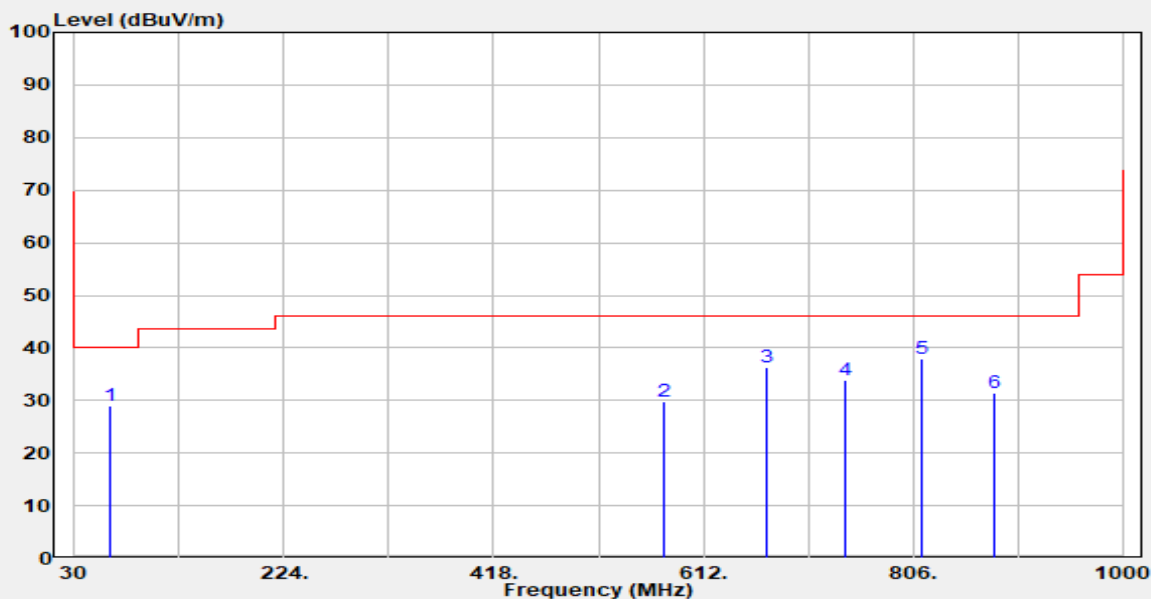
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
133.79	Peak	44.98	-11.93	33.06	43.50	-10.44
602.30	Peak	33.52	-3.33	30.19	46.00	-15.81
678.93	Peak	37.71	-2.63	35.09	46.00	-10.91
732.28	Peak	32.65	-3.26	29.40	46.00	-16.60
813.76	Peak	31.33	-1.31	30.02	46.00	-15.98
874.87	Peak	33.74	-0.81	32.93	46.00	-13.07

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Report Number :TERF2212002706ER
Operation Mode :802.11a
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-02-13
Temp./Humi. :22.9/54
Antenna Pol. :VERTICAL
Engineer :GN Lin



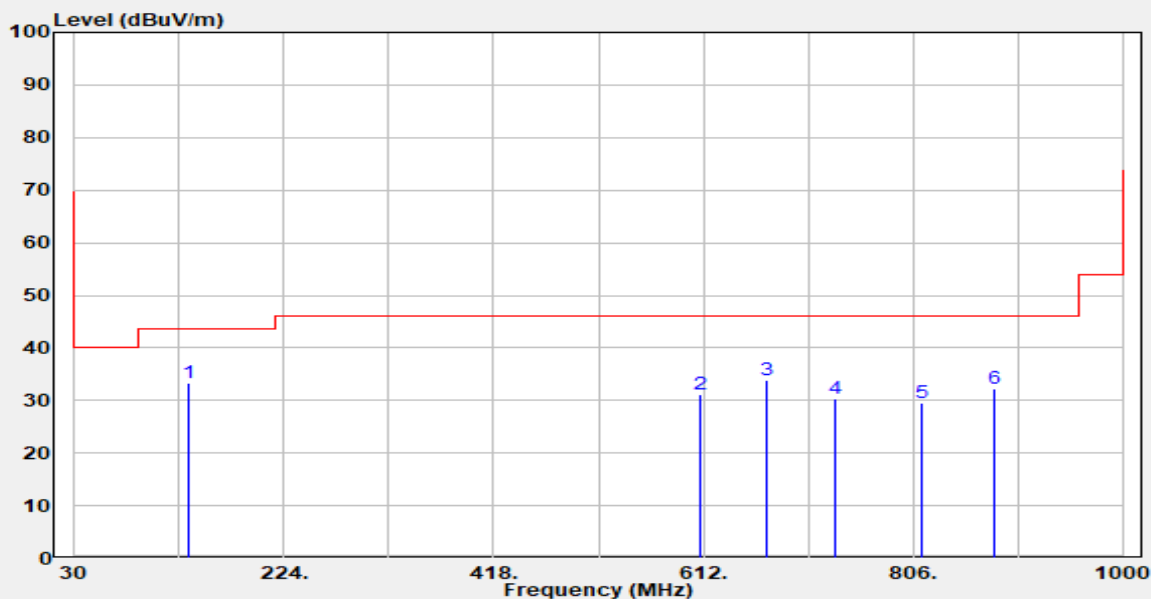
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.01	Peak	47.22	-18.25	28.97	40.00	-11.03
576.11	Peak	34.43	-4.63	29.80	46.00	-16.20
671.17	Peak	39.63	-3.22	36.41	46.00	-9.59
743.92	Peak	36.53	-2.56	33.97	46.00	-12.03
813.76	Peak	39.17	-1.31	37.85	46.00	-8.15
881.66	Peak	32.42	-0.98	31.43	46.00	-14.57

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Report Number :TERF2212002706ER
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-13
 Temp./Humi. :22.9/54
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



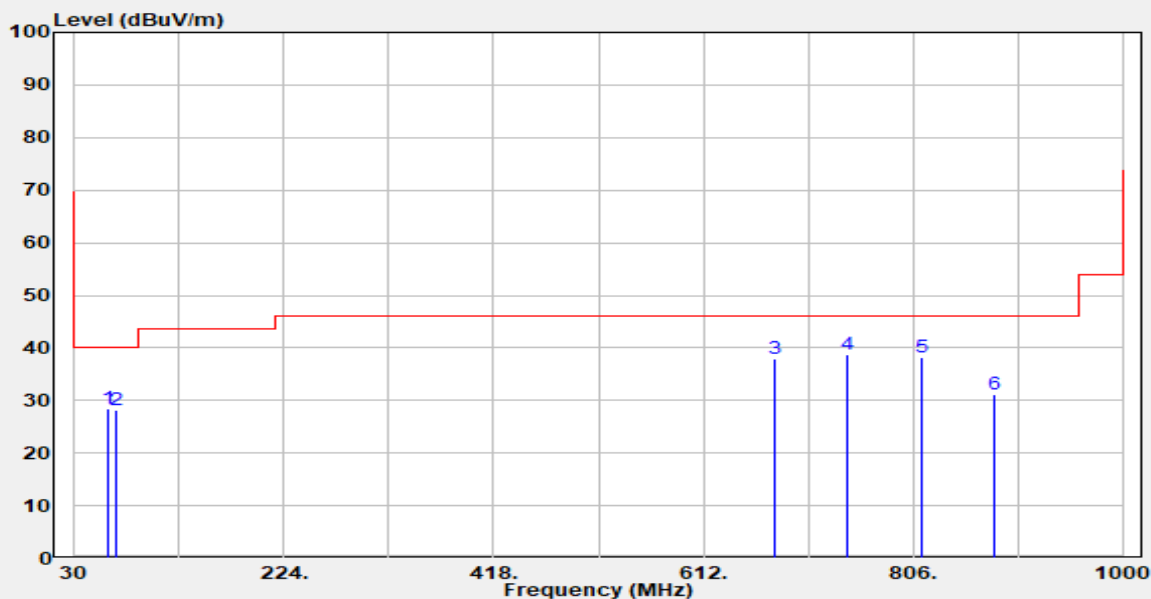
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
135.73	Peak	45.30	-12.04	33.26	43.50	-10.24
610.06	Peak	34.47	-3.18	31.29	46.00	-14.71
670.20	Peak	37.24	-3.43	33.81	46.00	-12.19
734.22	Peak	33.35	-3.06	30.29	46.00	-15.71
813.76	Peak	30.86	-1.31	29.55	46.00	-16.45
880.69	Peak	33.26	-1.08	32.18	46.00	-13.82

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Report Number :TERF2212002706ER
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-13
 Temp./Humi. :22.9/54
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



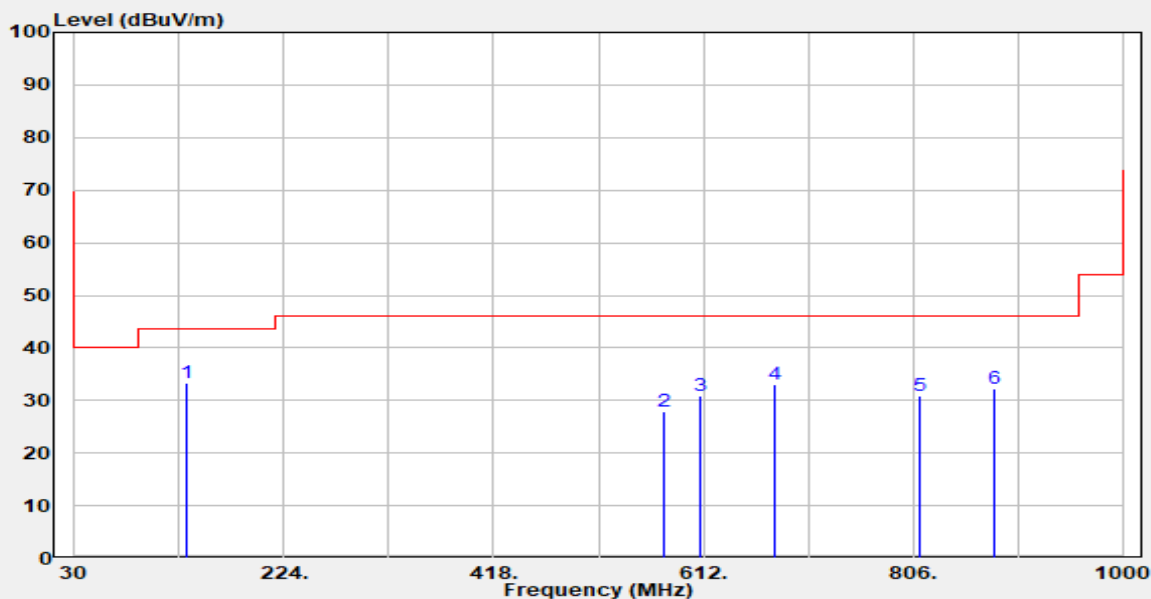
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
61.04	Peak	46.49	-18.14	28.34	40.00	-11.66
68.80	Peak	46.46	-18.17	28.29	40.00	-11.71
677.96	Peak	40.52	-2.56	37.95	46.00	-8.05
744.89	Peak	41.26	-2.51	38.74	46.00	-7.26
813.76	Peak	39.55	-1.31	38.23	46.00	-7.77
881.66	Peak	32.15	-0.98	31.17	46.00	-14.83

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Report Number :TERF2212002706ER
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-13
 Temp./Humi. :22.9/54
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



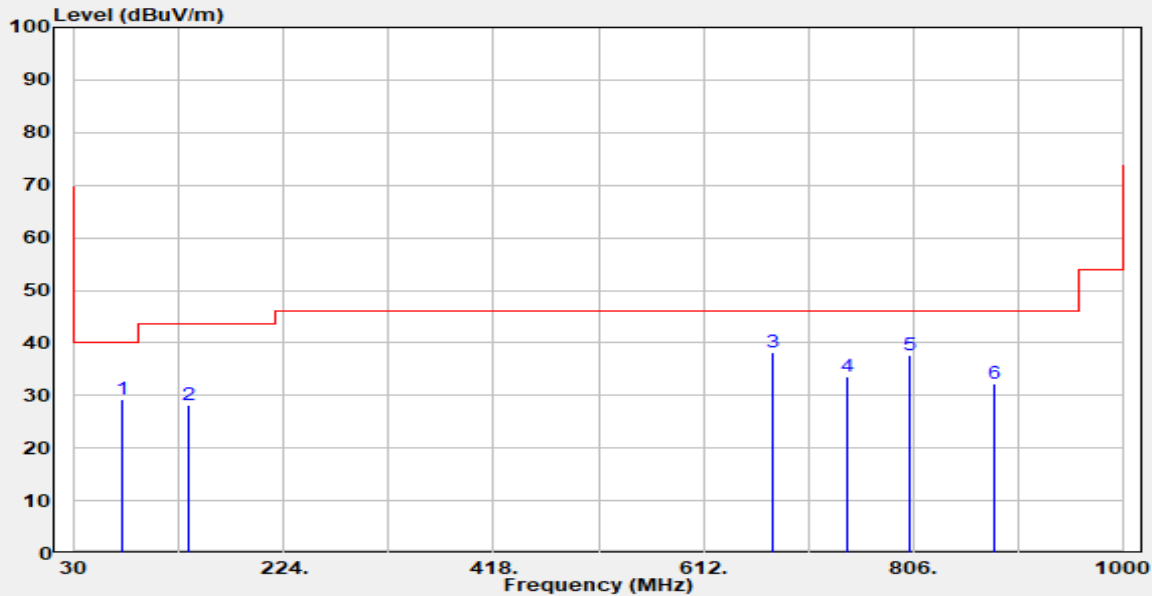
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
133.79	Peak	45.19	-11.93	33.26	43.50	-10.24
576.11	Peak	32.46	-4.63	27.83	46.00	-18.17
610.06	Peak	34.03	-3.18	30.85	46.00	-15.15
677.96	Peak	35.66	-2.56	33.09	46.00	-12.91
812.79	Peak	32.24	-1.33	30.91	46.00	-15.09
881.66	Peak	33.12	-0.98	32.14	46.00	-13.86

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Report Number :TERF2212002706ER
Operation Mode :802.11a
Test Frequency :5785 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-02-13
Temp./Humi. :22.9/54
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
73.65	Peak	47.09	-17.94	29.15	40.00	-10.85
135.73	Peak	40.09	-12.04	28.05	43.50	-15.45
676.99	Peak	40.68	-2.50	38.18	46.00	-7.82
744.89	Peak	36.13	-2.51	33.62	46.00	-12.38
803.09	Peak	39.43	-1.69	37.74	46.00	-8.26
881.66	Peak	33.12	-0.98	32.14	46.00	-13.86

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