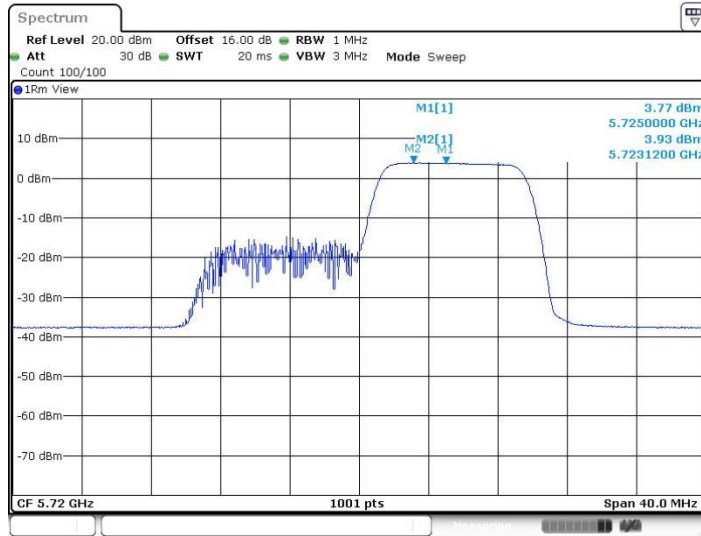
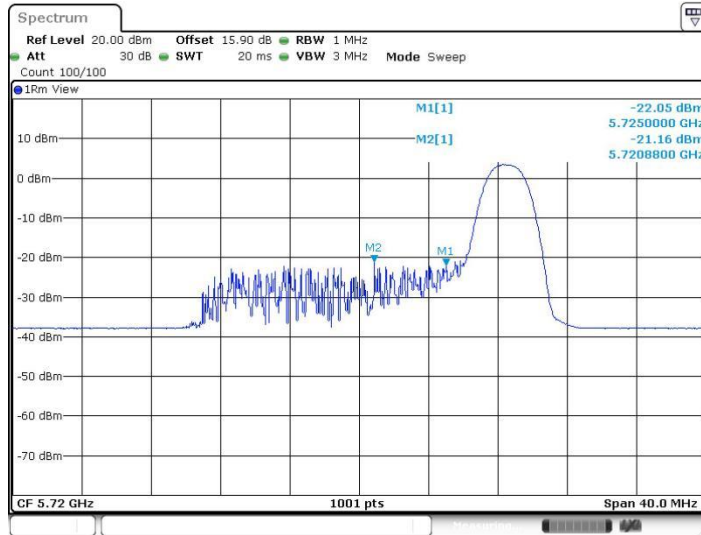




11AX20MIMO\_Ant1\_5720\_UNII-2C\_106Tone\_RU54

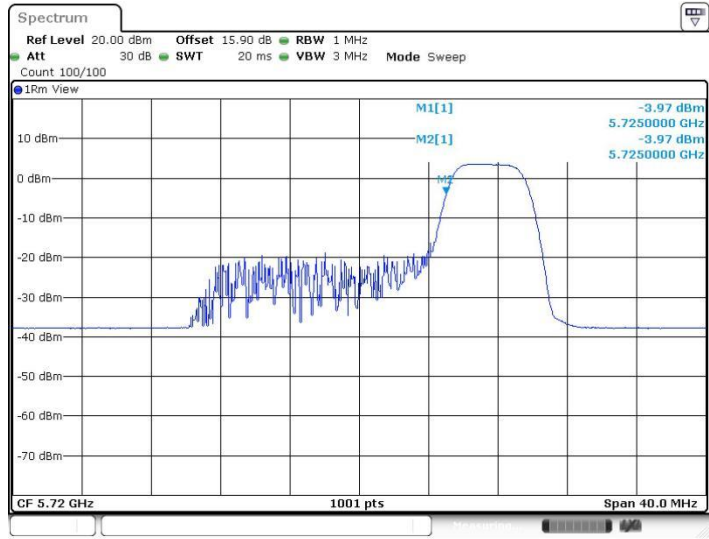


11AX20MIMO\_Ant2\_5720\_UNII-2C\_26Tone\_RU8

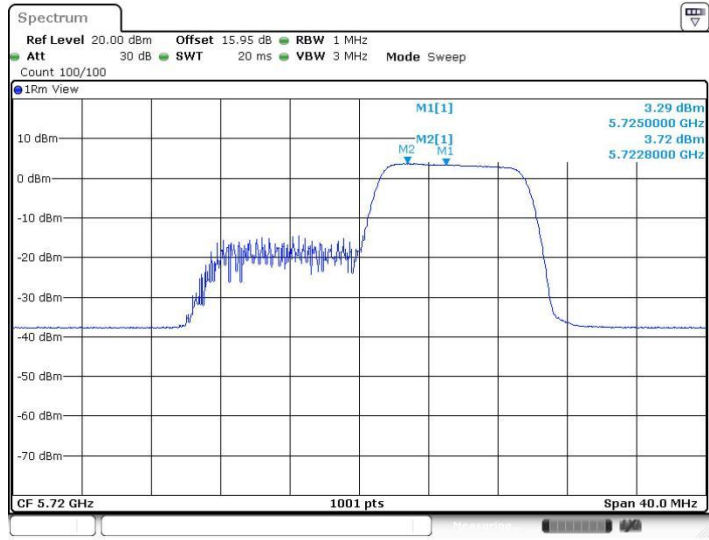




11AX20MIMO\_Ant2\_5720\_UNII-2C\_52Tone\_RU40

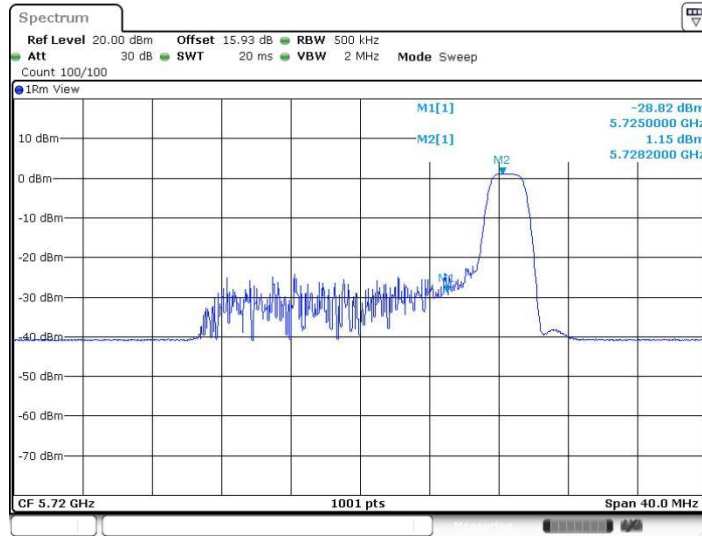


11AX20MIMO\_Ant2\_5720\_UNII-2C\_106Tone\_RU54



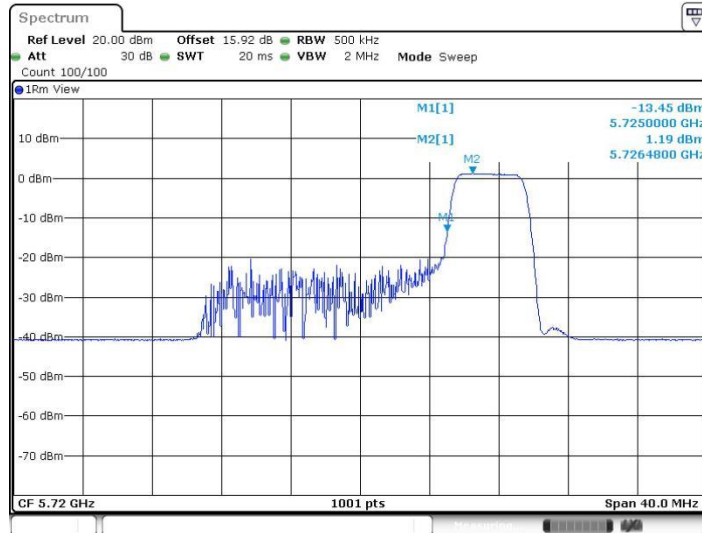


11AX20MIMO\_Ant1\_5720\_UNII-3\_26Tone\_RU8



Date: 15.SEP.2022 09:22:00

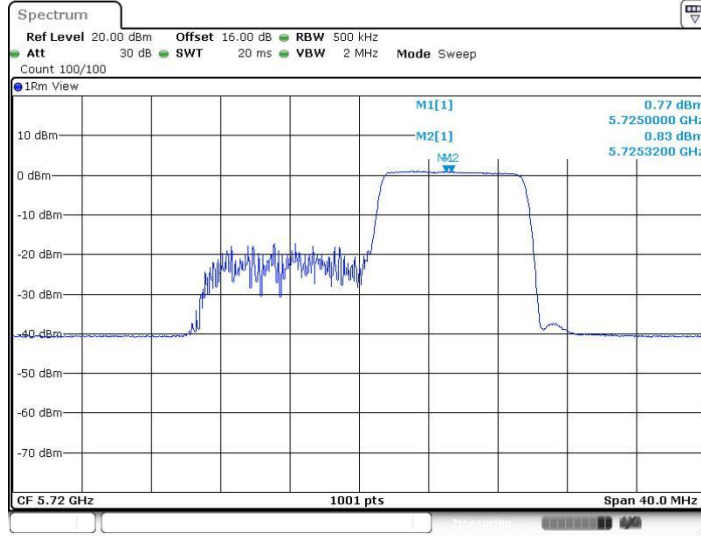
11AX20MIMO\_Ant1\_5720\_UNII-3\_52Tone\_RU40



Date: 15.SEP.2022 09:25:47

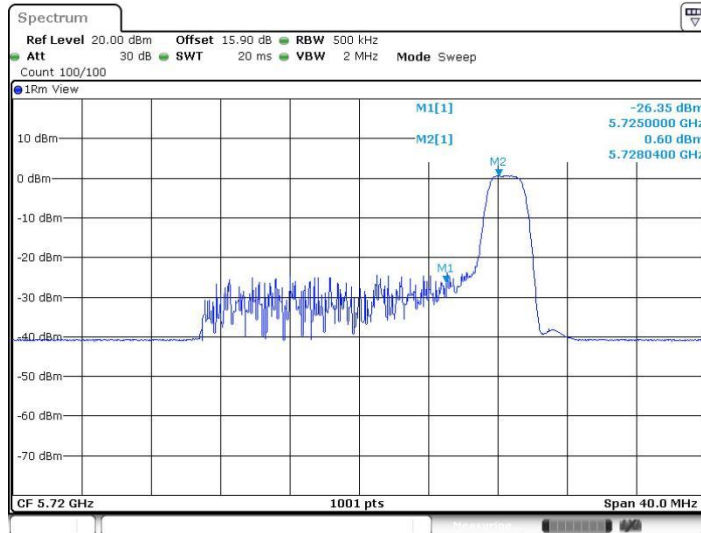


11AX20MIMO\_Ant1\_5720\_UNII-3\_106Tone\_RU54



Date: 15.SEP.2022 09:30:46

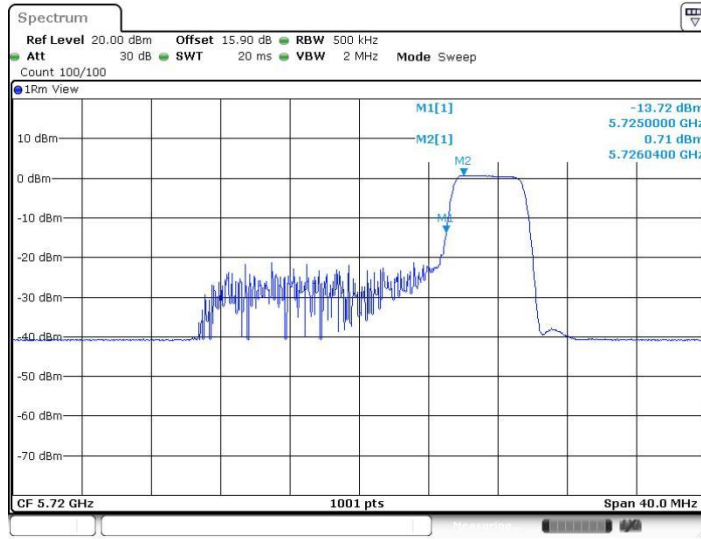
11AX20MIMO\_Ant2\_5720\_UNII-3\_26Tone\_RU8



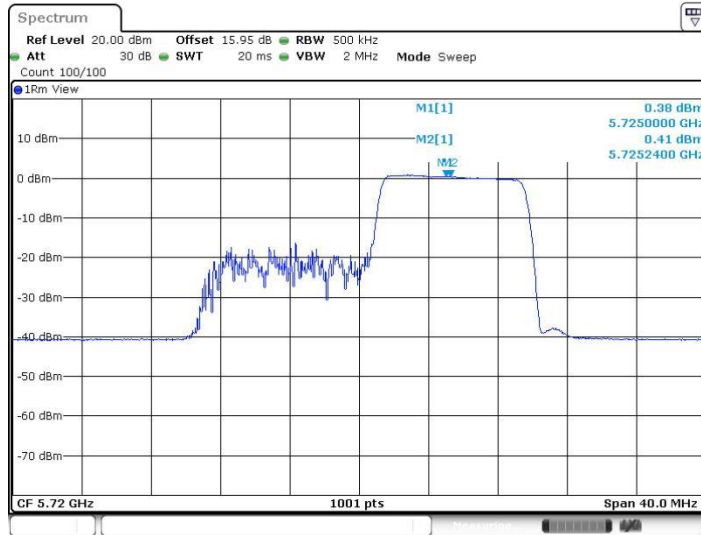
Date: 15.SEP.2022 09:23:07



11AX20MIMO\_Ant2\_5720\_UNII-3\_52Tone\_RU40

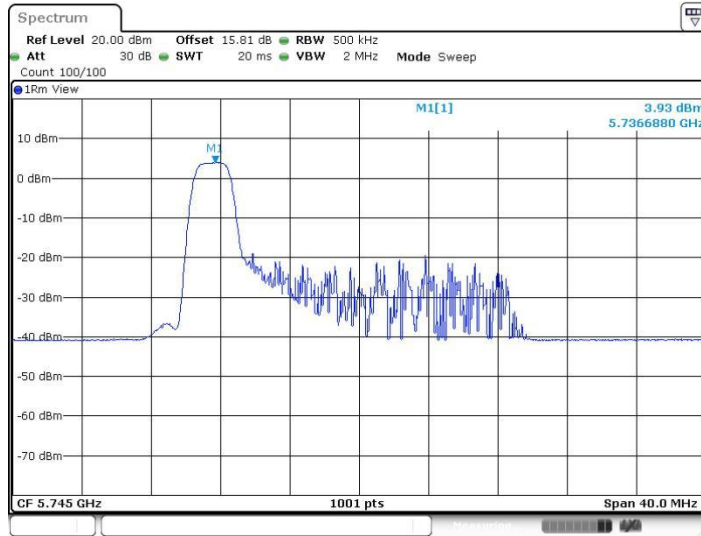


11AX20MIMO\_Ant2\_5720\_UNII-3\_106Tone\_RU54



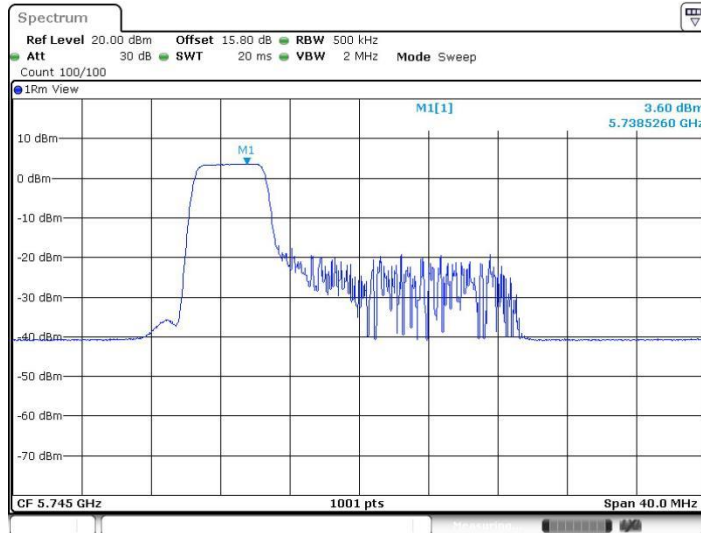


11AX20MIMO\_Ant1\_5745\_26Tone\_RU0



Date: 15.SEP.2022 09:37:42

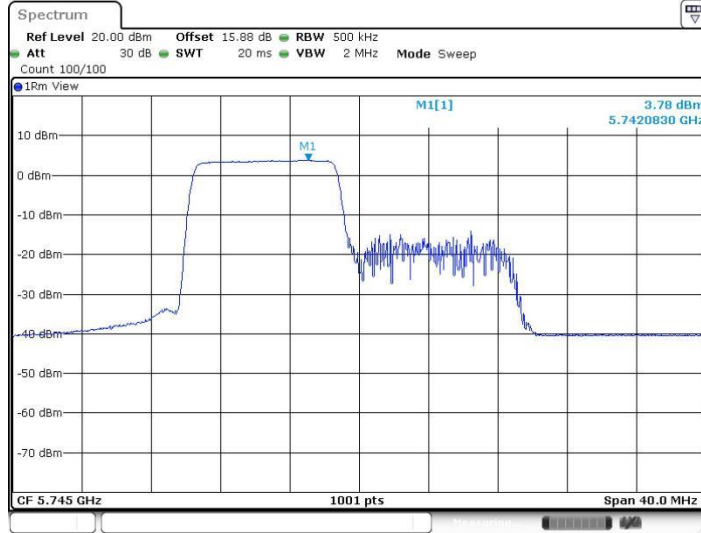
11AX20MIMO\_Ant1\_5745\_52Tone\_52Tone\_RU37



Date: 15.SEP.2022 09:39:29

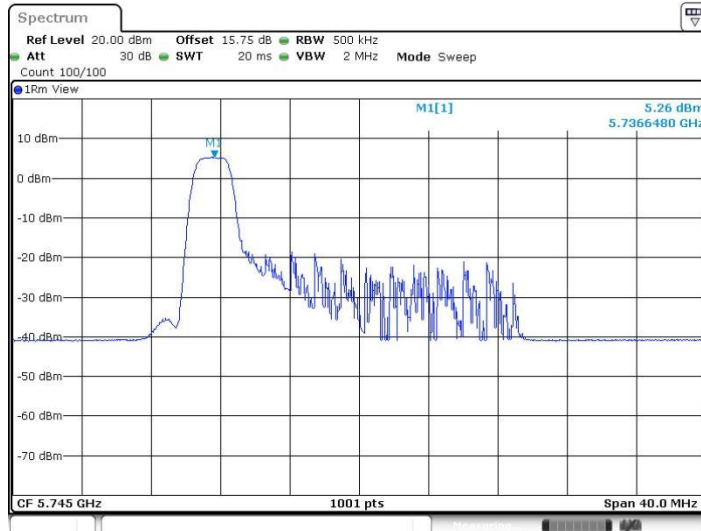


11AX20MIMO\_Ant1\_5745\_106Tone\_RU53



Date: 15.SEP.2022 09:42:36

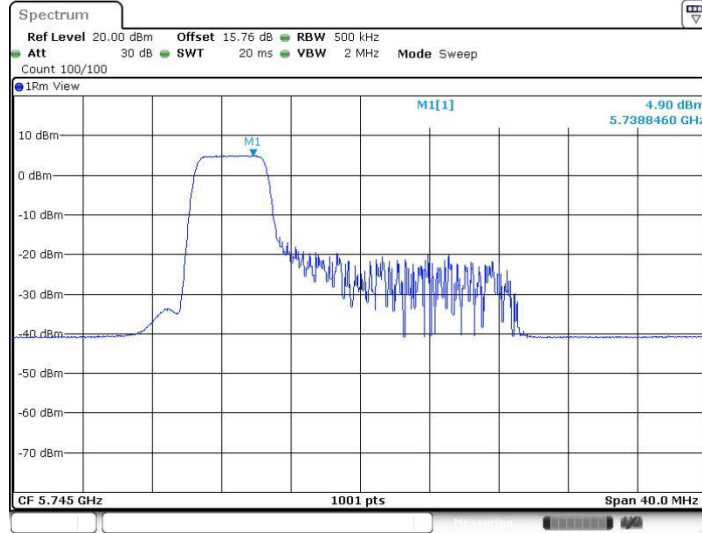
11AX20MIMO\_Ant2\_5745\_26Tone\_RU0



Date: 15.SEP.2022 09:37:53

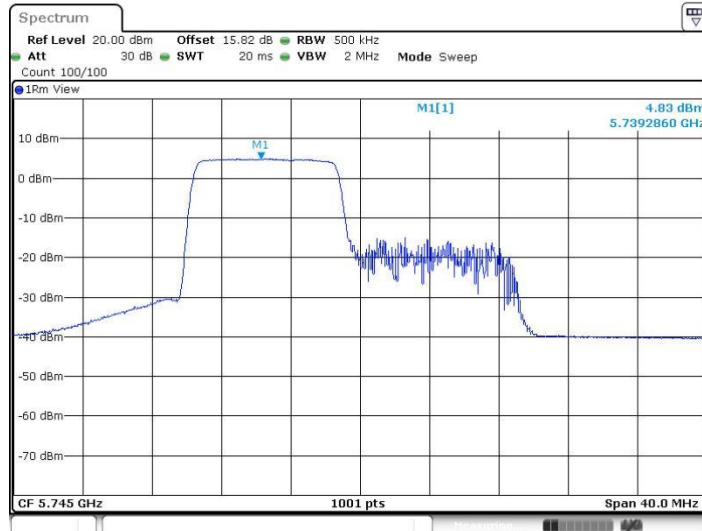


11AX20MIMO\_Ant2\_5745\_52Tone\_RU37



Date: 15.SEP.2022 09:40:04

11AX20MIMO\_Ant2\_5745\_106Tone\_RU53

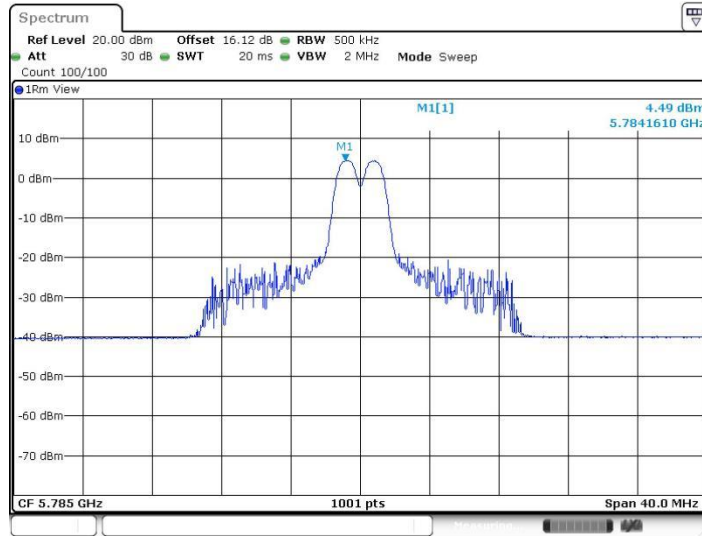


Date: 15.SEP.2022 09:42:47



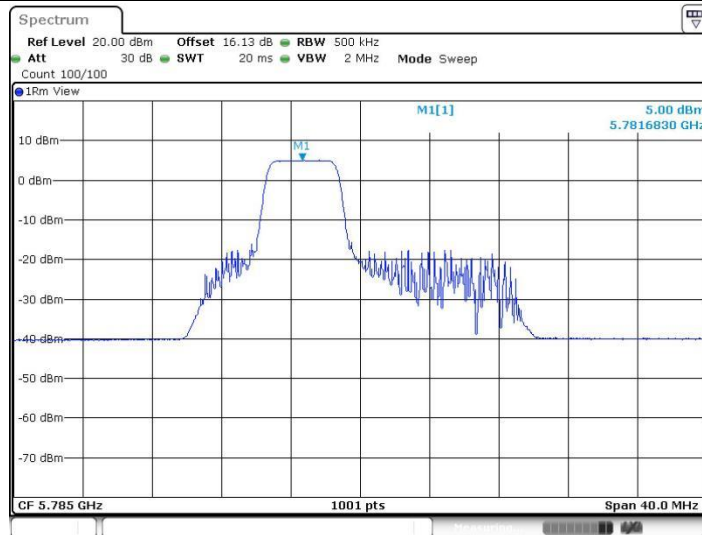


11AX20MIMO\_Ant1\_5785\_26Tone\_RU4



Date: 15.SEP.2022 09:47:58

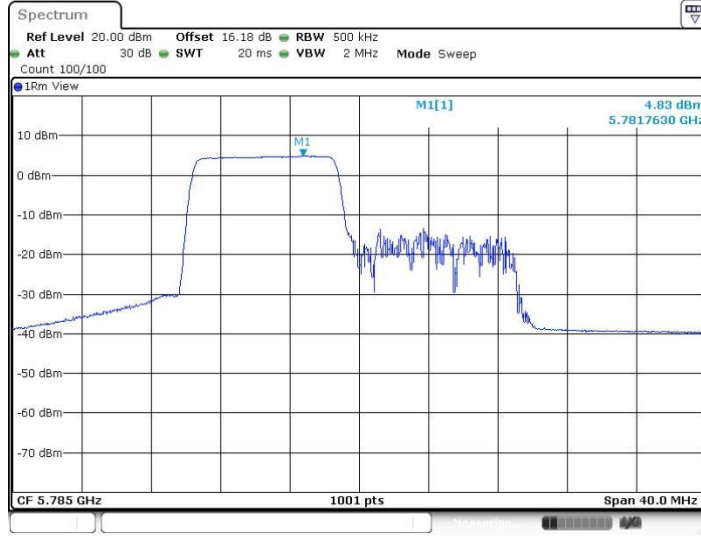
11AX20MIMO\_Ant1\_5785\_52Tone\_RU38



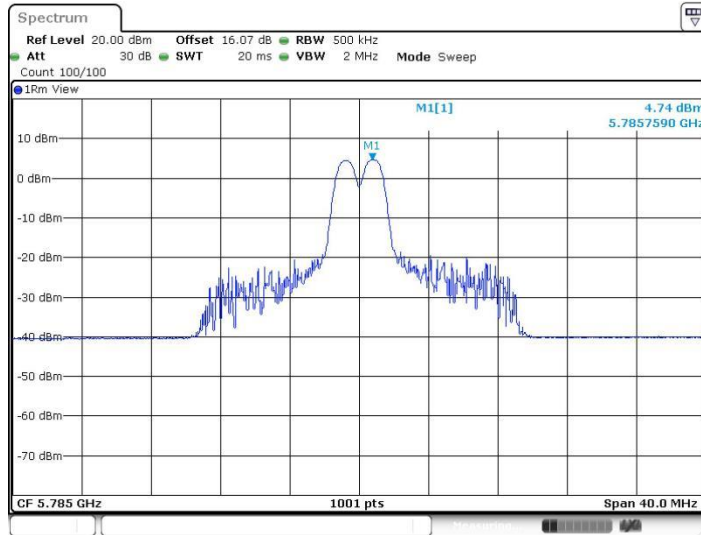
Date: 15.SEP.2022 09:53:12



11AX20MIMO\_Ant1\_5785\_106Tone\_RU53

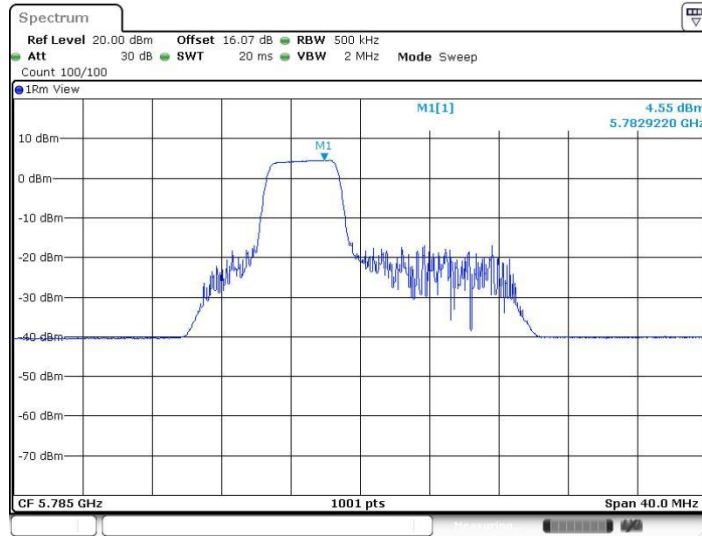


11AX20MIMO\_Ant2\_5785\_26Tone\_RU4



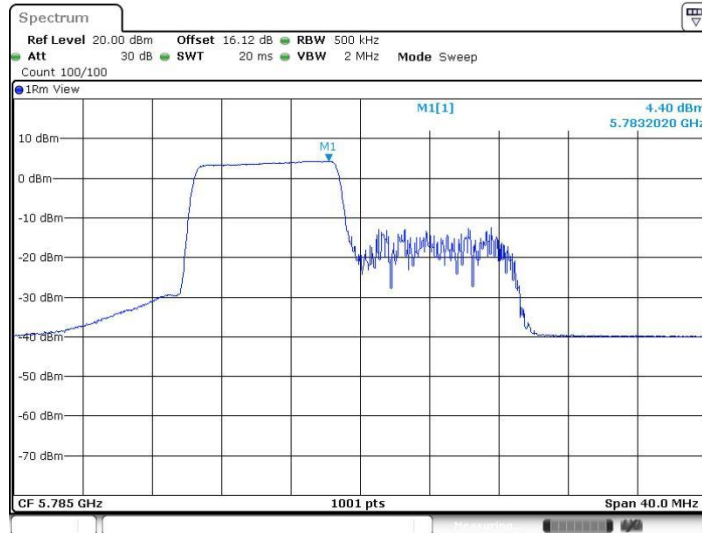


11AX20MIMO\_Ant2\_5785\_52Tone\_RU38



Date: 15.SEP.2022 09:53:23

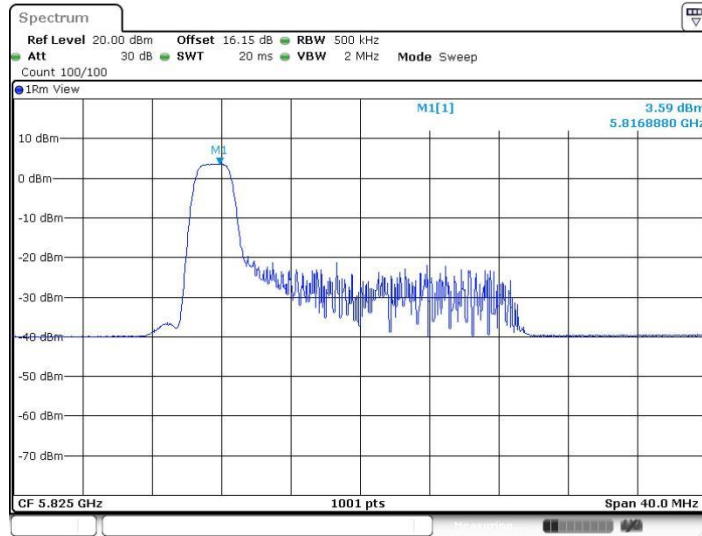
11AX20MIMO\_Ant2\_5785\_106Tone\_RU53



Date: 15.SEP.2022 09:55:14

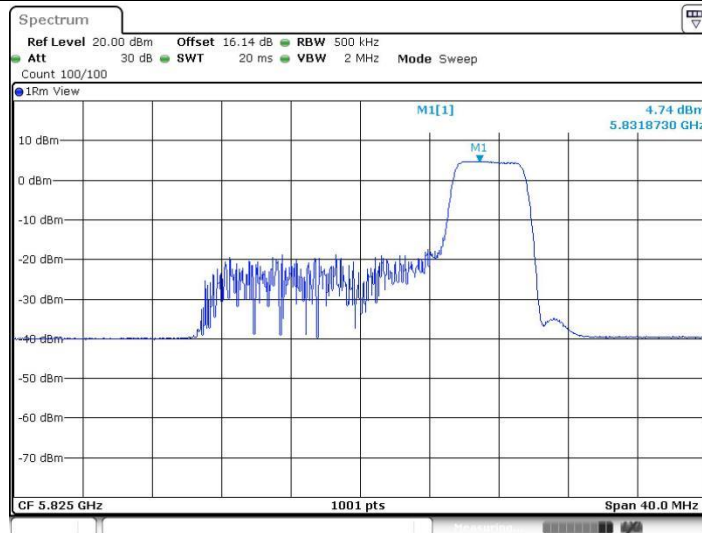


11AX20MIMO\_Ant1\_5825\_26Tone\_RU8



Date: 15.SEP.2022 09:57:08

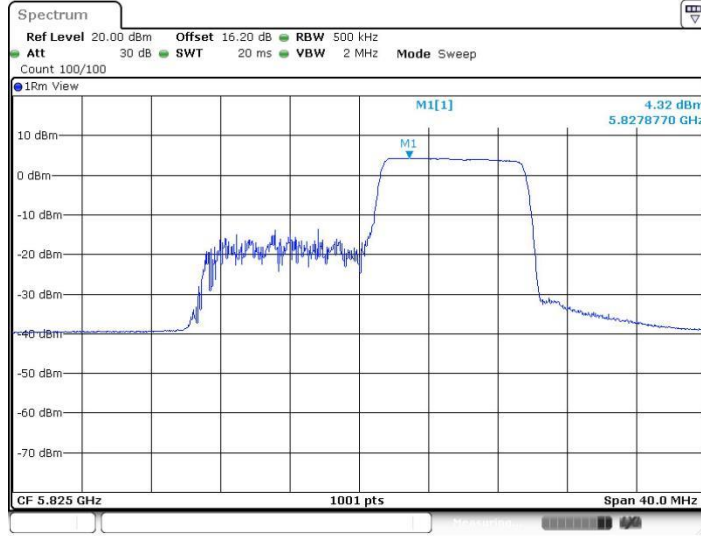
11AX20MIMO\_Ant1\_5825\_52Tone\_RU40



Date: 15.SEP.2022 10:04:13

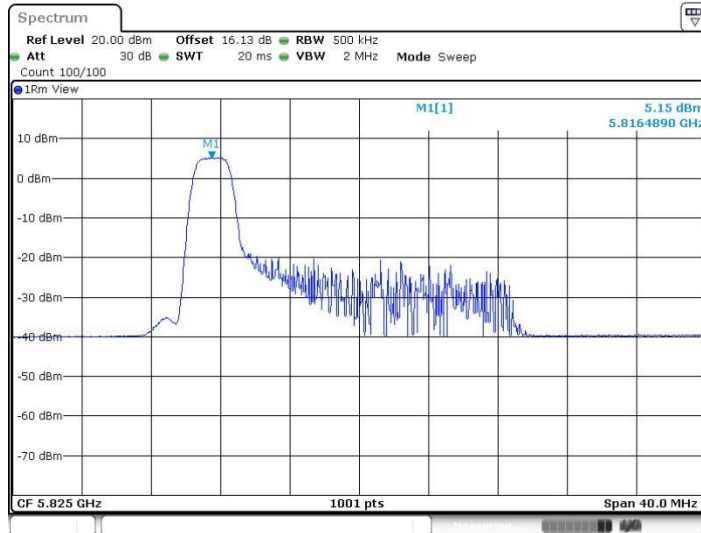


11AX20MIMO\_Ant1\_5825\_106Tone\_RU54



Date: 15.SEP.2022 10:06:22

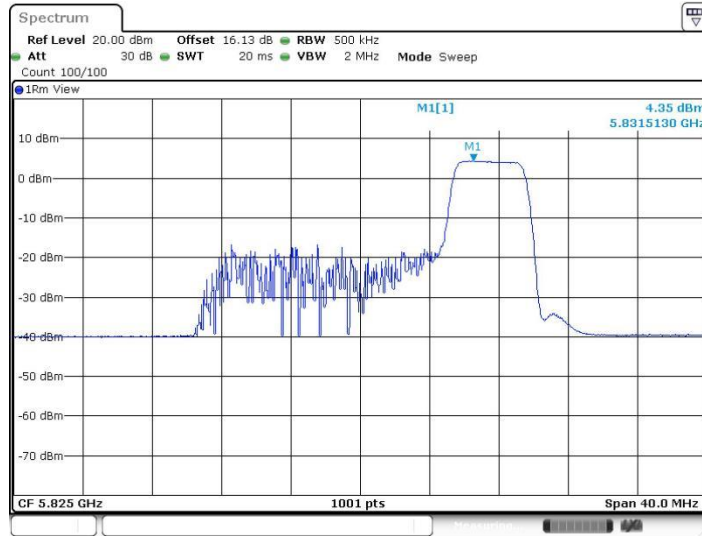
11AX20MIMO\_Ant2\_26Tone\_RU8



Date: 15.SEP.2022 09:57:42

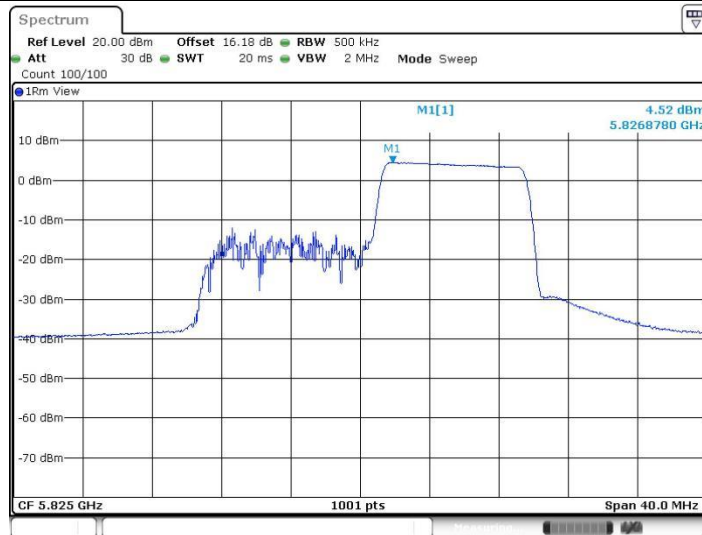


11AX20MIMO\_Ant2\_52Tone\_RU40



Date: 15.SEP.2022 10:04:23

11AX20MIMO\_Ant2\_5825\_106Tone\_RU54

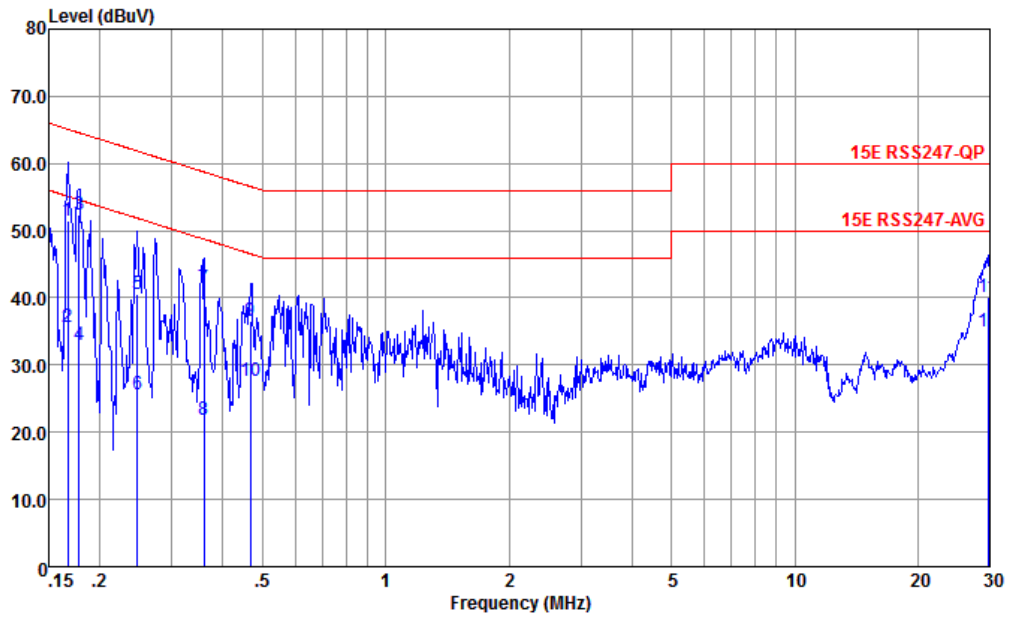


Date: 15.SEP.2022 10:06:33



## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

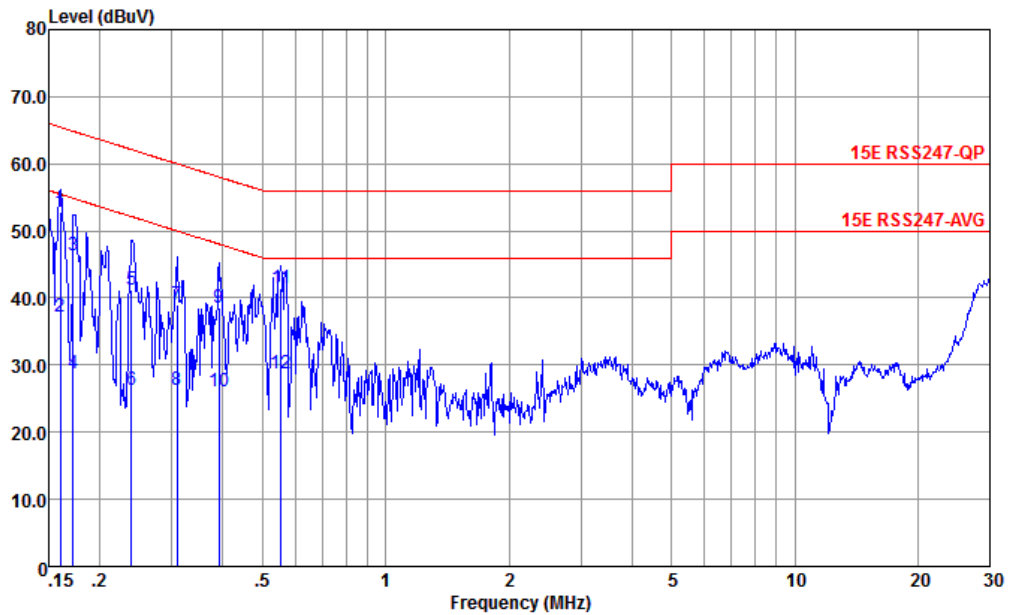


Site : CO01-KS  
 Condition : 15E RSS247-QP LISN-060105-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.167	51.56	-13.56	65.12	41.09	0.03	10.44	QP
2	0.167	35.56	-29.56	65.12	25.09	0.03	10.44	Average
3 *	0.178	52.34	-12.25	64.59	41.90	0.03	10.41	QP
4	0.178	32.94	-31.65	64.59	22.50	0.03	10.41	Average
5	0.247	40.59	-21.27	61.86	30.19	0.06	10.34	QP
6	0.247	25.59	-36.27	61.86	15.19	0.06	10.34	Average
7	0.360	41.46	-17.28	58.74	31.10	0.08	10.28	QP
8	0.360	21.86	-36.88	58.74	11.50	0.08	10.28	Average
9	0.466	36.54	-20.04	56.58	26.20	0.10	10.24	QP
10	0.466	27.54	-29.04	56.58	17.20	0.10	10.24	Average
11	29.684	40.02	-19.98	60.00	28.60	0.79	10.63	QP
12	29.684	34.92	-25.08	60.00	23.50	0.79	10.63	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : 15E RSS247-QP LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.160	52.86	-12.61	65.47	42.30	0.11	10.45	QP
2	0.160	37.19	-28.28	65.47	26.63	0.11	10.45	Average
3	0.172	46.33	-18.53	64.86	35.80	0.11	10.42	QP
4	0.172	28.73	-36.13	64.86	18.20	0.11	10.42	Average
5	0.239	41.24	-20.89	62.13	30.80	0.10	10.34	QP
6	0.239	26.24	-35.89	62.13	15.80	0.10	10.34	Average
7	0.308	38.90	-21.12	60.02	28.50	0.10	10.30	QP
8	0.308	26.20	-33.82	60.02	15.80	0.10	10.30	Average
9	0.391	38.57	-19.46	58.03	28.19	0.11	10.27	QP
10	0.391	26.17	-31.86	58.03	15.79	0.11	10.27	Average
11	0.555	41.45	-14.55	56.00	31.10	0.11	10.24	QP
12	0.555	28.65	-27.35	56.00	18.30	0.11	10.24	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)





## Appendix C. Radiated Spurious Emission

Note: All modes had been tested and only the worst channel test data of each bandwidth shown in the report

### UNII-1 - 5150~5250MHz

#### WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Partial 52/37 CH 36 5180MHz		5113.76	58.35	-15.65	74	42.52	34.48	10.61	29.26	100	120	P	H
		5101.28	47.08	-6.92	54	31.24	34.5	10.6	29.26	100	120	A	H
		5176	107.52	-	-	91.81	34.42	10.63	29.34	100	120	P	H
		5176	100.44	-	-	84.73	34.42	10.63	29.34	100	120	A	H
		5128.8	57.58	-16.42	74	41.78	34.47	10.61	29.28	339	71	P	V
		5103.52	47.02	-6.98	54	31.18	34.5	10.6	29.26	339	71	A	V
		5176	107.41	-	-	91.7	34.42	10.63	29.34	339	71	P	V
		5176	99.51	-	-	83.8	34.42	10.63	29.34	339	71	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

### UNII-1 5150~5250MHz

#### WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE40 Full CH 38 5190MHz		5145.12	59.98	-14.02	74	43.64	35.03	10.62	29.31	298	71	P	H
		5145.44	50.94	-3.06	54	34.6	35.03	10.62	29.31	298	71	A	H
	*	5188	105.1	-	-	88.75	35.06	10.63	29.34	298	71	P	H
		5188	97.05	-	-	80.7	35.06	10.63	29.34	298	71	A	H
		5381.82	55.73	-18.27	74	39.17	35.24	10.87	29.55	298	71	P	H
		5356.62	46.46	-7.54	54	29.93	35.22	10.83	29.52	298	71	A	H
		5145.44	59.4	-14.6	74	43.06	35.03	10.62	29.31	117	312	P	V
		5147.68	50.39	-3.61	54	34.05	35.03	10.62	29.31	117	312	A	V
	*	5188	104.36	-	-	88.01	35.06	10.63	29.34	117	312	P	V
		5188	97.2	-	-	80.85	35.06	10.63	29.34	117	312	A	V



		5391.54	54.51	-19.49	74	37.93	35.26	10.87	29.55	117	312	P	V
		5350.2	46.46	-7.54	54	29.93	35.22	10.83	29.52	117	312	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**UNII-1 5150~5250MHz**

**WIFI 802.11ax HE40 Full (Harmonic @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE40 Full CH 38 5190MHz		10388	53.55	-14.75	68.3	65.45	38.33	16.21	66.44	248	175	P	H
		10366	50.28	-18.02	68.3	62.22	38.32	16.2	66.46	100	360	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**UNII-1 5150~5250MHz**

**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE80 Full CH 42 5210MHz		5148.8	58.99	-15.01	74	42.65	35.03	10.62	29.31	314	72	P	H
		5150	50.73	-3.27	54	34.39	35.03	10.62	29.31	314	72	P	H
	*	5224	100.38	-	-	84.02	35.09	10.66	29.39	314	72	P	H
		5224	93.18	-	-	76.82	35.09	10.66	29.39	314	72	A	H
		5397.3	54.92	-19.08	74	38.32	35.26	10.89	29.55	314	72	P	H
		5350.86	46.9	-7.1	54	30.37	35.22	10.83	29.52	314	72	A	H
		5142.88	58.96	-15.04	74	42.61	35.01	10.62	29.28	140	304	P	V
		5149.92	50.31	-3.69	54	33.97	35.03	10.62	29.31	140	304	A	V
	*	5230	99.93	-	-	83.53	35.11	10.68	29.39	140	304	P	V
		5230	91.5	-	-	75.1	35.11	10.68	29.39	140	304	A	V
		5350.14	55.04	-18.96	74	38.51	35.22	10.83	29.52	140	304	P	V
		5351.94	46.68	-7.32	54	30.15	35.22	10.83	29.52	140	304	A	V



Remark	
--------	--

**UNII-1 5150~5250MHz**  
**WIFI 802.11ax HE80 Full (Harmonic @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax		10421	45.83	-22.47	68.3	57.65	38.34	16.24	66.4	100	360	P	H
HE80 Full CH 42 5210MHz		10421	46.03	-22.27	68.3	57.85	38.34	16.24	66.4	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**UNII-2A- 5250~5350MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a CH 64 5320MHz		5352.9	58.15	-15.85	74	41.62	35.22	10.83	29.52	316	61	P	H
		5352.8	50.93	-3.07	54	34.4	35.22	10.83	29.52	316	61	A	H
	*	5320	110.09	-	-	93.58	35.19	10.79	29.47	316	61	P	H
		5320	103.75	-	-	87.24	35.19	10.79	29.47	316	61	A	H
		5352.5	59.77	-14.23	74	43.24	35.22	10.83	29.52	100	307	P	V
		5352.3	49.27	-4.73	54	32.74	35.22	10.83	29.52	100	307	A	V
	*	5320	107.93	-	-	91.42	35.19	10.79	29.47	100	307	P	V
		5320	101.21	-	-	84.7	35.19	10.79	29.47	100	307	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-2A5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a		10641	50.86	-23.14	74	62.22	38.41	16.38	66.15	300	0	P	H
CH 64		10641	57.7	-16.3	74	69.06	38.41	16.38	66.15	342	2	P	V
5320MHz		10641	49.59	-4.41	54	60.95	38.41	16.38	66.15	342	2	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 64 5320MHz		5354.8	60.04	-13.96	74	43.51	35.22	10.83	29.52	314	63	P	H
		5350.1	50.97	-3.03	54	34.44	35.22	10.83	29.52	314	63	A	H
	*	5320	110.19	-	-	93.68	35.19	10.79	29.47	314	63	P	H
		5320	103.32	-	-	86.81	35.19	10.79	29.47	314	63	A	H
		5357.7	62.24	-11.76	74	45.71	35.22	10.83	29.52	100	360	P	V
		5350	50.39	-3.61	54	33.86	35.22	10.83	29.52	100	360	A	V
	*	5320	109.49	-	-	92.98	35.19	10.79	29.47	100	360	P	V
		5320	101.84	-	-	85.33	35.19	10.79	29.47	100	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-2A5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax		10641	54.46	-19.54	74	65.82	38.41	16.38	66.15	300	12	P	H
HE20 Full		10630	56.65	-17.35	74	68.06	38.4	16.36	66.17	336	0	P	V
CH 64		10630	48.1	-5.9	54	59.51	38.4	16.36	66.17	336	0	A	V
5320MHz													
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												

Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Full LF		53.28	35.08	-4.92	40	51.64	13.78	1.01	31.35	-	-	P	H
		91.11	32.77	-10.73	43.5	48.35	14.96	1.35	31.89	-	-	P	H
		162.89	38.31	-5.19	43.5	51.46	16.32	1.86	31.33	-	-	P	H
		271.53	35.58	-10.42	46	45.53	19.24	2.29	31.48	-	-	P	H
		570.29	32.91	-13.09	46	35.48	25.54	3.38	31.49	-	-	P	H
		751.68	30.97	-15.03	46	30.53	27.48	4.07	31.11	-	-	P	H
		30	27.35	-12.65	40	32.08	25.74	0.76	31.23	-	-	P	V
		55.22	24.17	-15.83	40	41.08	13.32	1.03	31.26	-	-	P	V
		96.93	38.82	-4.68	43.5	53.64	15.68	1.41	31.91	-	-	P	V
		158.04	36.48	-7.02	43.5	49.34	16.62	1.84	31.32	-	-	P	V
		196.84	37.39	-6.11	43.5	51.65	15.01	2.07	31.34	-	-	P	V
		318.09	34.18	-11.82	46	43.39	19.8	2.63	31.64	-	-	P	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against limit line.</p>												



UNII-3 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a CH 149 5745MHz		5604	57.07	-11.23	68.3	40.19	35.47	11.19	29.78	392	59	P	H
		5694	60.52	-40.36	100.88	43.46	35.58	11.28	29.8	392	59	P	H
		5719.6	69.31	-41.48	110.79	52.18	35.6	11.32	29.79	392	59	P	H
		5723.6	76.62	-42.49	119.11	59.47	35.62	11.32	29.79	392	59	P	H
		5746	112.63	-	-	95.42	35.65	11.34	29.78	392	59	P	H
		5746	107.04	-	-	89.83	35.65	11.34	29.78	392	59	A	H
		5637.2	58.31	-9.99	68.3	41.41	35.48	11.23	29.81	225	302	P	V
		5696.8	61.79	-41.15	102.94	44.73	35.58	11.28	29.8	225	302	P	V
		5719.6	68.82	-41.97	110.79	51.69	35.6	11.32	29.79	225	302	P	V
		5724.8	75.41	-46.43	121.84	58.26	35.62	11.32	29.79	225	302	P	V
		5746	112.51	-	-	95.3	35.65	11.34	29.78	225	302	P	V
	5746	106.84	-	-	89.63	35.65	11.34	29.78	225	302	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a CH 149 5745MHz		11488	60.53	-13.47	74	70.2	38.69	17.09	65.45	304	25	P	H
		11488	50.91	-3.09	54	60.58	38.69	17.09	65.45	304	25	A	H
		11488	57.23	-16.77	74	66.9	38.69	17.09	65.45	141	9	P	V
		11488	50.67	-3.33	54	60.34	38.69	17.09	65.45	141	9	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz
WIFI 802.11ax HE20\_Full (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 7+8, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Includes a Remark section with test results.

UNII-3 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 7+8, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Includes a Remark section with test results.



**UNII-3 5725~5850MHz**  
**WIFI 802.11ax HE20\_Partial 52 (Band Edge @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Partial 52/40 CH 165 5825MHz		5850.4	56.6	-64.79	121.39	39.98	34.95	11.42	29.75	100	114	P	H
		5866.4	56.82	-50.89	107.71	40.16	35	11.43	29.77	100	114	P	H
		5881.2	57.55	-43.14	100.69	40.83	35.05	11.44	29.77	100	114	P	H
		5928.8	57.55	-10.75	68.3	40.72	35.17	11.48	29.82	100	114	P	H
		5830	112.97	-	-	96.42	34.9	11.41	29.76	100	114	P	H
		5830	104.7	-	-	88.15	34.9	11.41	29.76	100	114	A	H
		5854	56.37	-56.81	113.18	39.69	35	11.43	29.75	362	41	P	V
		5862.8	56.72	-51.99	108.71	40.06	35	11.43	29.77	362	41	P	V
		5902	57.13	-28.15	85.28	40.38	35.1	11.45	29.8	362	41	P	V
		5950	56.22	-12.08	68.3	39.37	35.2	11.49	29.84	362	41	P	V
	5830	111.07	-	-	94.52	34.9	11.41	29.76	362	41	P	V	
	5830	102.72	-	-	86.17	34.9	11.41	29.76	362	41	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**UNII-3 5725~5850MHz**  
**WIFI 802.11ax HE40\_Full (Band Edge @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE40 Full CH 151 5755MHz		5624	56	-12.3	68.3	39.09	35.48	11.21	29.78	300	111	P	H
		5700	64.67	-40.63	105.3	47.61	35.58	11.28	29.8	300	111	P	H
		5716.4	74.83	-35.06	109.89	57.72	35.6	11.3	29.79	300	111	P	H
		5723.2	73.56	-44.64	118.2	56.41	35.62	11.32	29.79	300	111	P	H
		5758	105.76	-	-	88.51	35.67	11.35	29.77	300	111	P	H
		5758	99.5	-	-	82.25	35.67	11.35	29.77	300	111	A	H
		5853.2	55.78	-59.22	115	38.31	35.8	11.42	29.75	300	111	P	H
		5864	57.13	-51.25	108.38	39.68	35.79	11.43	29.77	300	111	P	H
		5912	56.09	-21.8	77.89	38.66	35.78	11.47	29.82	300	111	P	H
	5951.6	56.8	-11.5	68.3	39.39	35.76	11.49	29.84	300	111	P	H	





		5644.8	58.18	-10.12	68.3	41.26	35.5	11.23	29.81	244	301	P	V
		5697.2	68.36	-34.88	103.24	51.3	35.58	11.28	29.8	244	301	P	V
		5716.4	80.32	-29.57	109.89	63.21	35.6	11.3	29.79	244	301	P	V
		5723.2	78.34	-39.86	118.2	61.19	35.62	11.32	29.79	244	301	P	V
		5746	108.53	-	-	91.32	35.65	11.34	29.78	244	301	P	V
		5746	101.57	-	-	84.36	35.65	11.34	29.78	244	301	A	V
		5850.4	57.09	-64.3	121.39	39.62	35.8	11.42	29.75	244	301	P	V
		5856	56.87	-53.75	110.62	39.39	35.8	11.43	29.75	244	301	P	V
		5890	58.3	-35.87	94.17	40.86	35.79	11.45	29.8	244	301	P	V
		5955.2	56.27	-12.03	68.3	38.86	35.76	11.49	29.84	244	301	P	V

**Remark**  
 1. No other spurious found.  
 2. All results are PASS against Peak and Average limit line.

**UNII-3 5725~5850MHz  
 WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax		11521	56.29	-17.71	74	65.91	38.7	17.12	65.44	326	31	P	H
HE40 Full		11521	48.09	-5.91	54	57.71	38.7	17.12	65.44	326	31	A	H
CH 151		11521	57.09	-16.91	74	66.71	38.7	17.12	65.44	153	10	P	V
5755MHz		11521	48.22	-5.78	54	57.84	38.7	17.12	65.44	153	10	A	V

**Remark**  
 1. No other spurious found.  
 2. All results are PASS against Peak and Average limit line.



UNII-3 5725~5850MHz
WIFI 802.11ax HE80\_Full (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 7+8, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include frequency measurements from 5627.6 to 5928 MHz.



UNII-3 5725~5850MHz
WIFI 802.11ax HE80\_Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 7+8, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ax HE80 Full and CH 155 5775MHz.

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

Table with 14 columns: WIFI Ant. 7+8, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11a LF with multiple frequency entries.



<Simultaneous transmission>

WIFI 802.11ax HE20 Full \_CH64\_ant8& WIFI 802.11ax HE20 Full\_ant7&LTE41C\_BW=20M+20M

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Full CH 01 2412MHz		2389.95	63.22	-10.78	74	55.07	31.9	7.13	30.88	281	139	P	H
		2389.69	48.01	-5.99	54	39.88	31.9	7.13	30.9	281	139	A	H
		2410	104.97	-	-	96.72	31.97	7.16	30.88	281	139	P	H
		2414	94.83	-	-	86.58	31.97	7.16	30.88	281	139	A	H
		2389.3	61.44	-12.56	74	53.31	31.9	7.13	30.9	322	84	P	V
		2389.95	49.6	-4.4	54	41.45	31.9	7.13	30.88	322	84	A	V
		2414	104.3	-	-	96.05	31.97	7.16	30.88	322	84	P	V
		2412	94.26	-	-	86.01	31.97	7.16	30.88	322	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Full CH 01 2412MHz		4824	40.82	-33.18	74	61.14	34.26	10.85	65.43	300	360	P	H
		4830	41.01	-32.99	74	61.33	34.26	10.85	65.43	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-2A- 5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 64 5320MHz		5350.7	59.19	-14.81	74	43.48	34.4	10.83	29.52	242	123	P	H
		5350	49.35	-4.65	54	33.64	34.4	10.83	29.52	242	123	A	H
	*	5320	105.35	-	-	89.63	34.4	10.79	29.47	242	123	P	H
		5320	98.17	-	-	82.45	34.4	10.79	29.47	242	123	A	H
		5351.3	59.81	-14.19	74	44.1	34.4	10.83	29.52	134	84	P	V
		5350.1	47.83	-6.17	54	32.12	34.4	10.83	29.52	134	84	A	V
	*	5320	105.96	-	-	90.24	34.4	10.79	29.47	134	84	P	V
		5320	98.84	-	-	83.12	34.4	10.79	29.47	134	84	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

UNII-2A-5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 64 5320MHz		10641	42.99	-31.01	74	55.1	37.66	16.38	66.15	100	0	P	H
		10641	43.39	-30.61	74	55.5	37.66	16.38	66.15	300	0	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Full \_CH64\_ant7+8& BLE\_CH39\_ant7&LTE41C\_BW=20M+20M

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 39 2480MHz		2498.74	61.34	-12.66	74	52.32	32.3	7.32	30.6	244	0	P	H
		2483.5	45.66	-8.34	54	36.82	32.23	7.28	30.67	244	0	A	H
		2480	96.51	-	-	87.67	32.23	7.28	30.67	244	0	P	H
		2480	94.09	-	-	85.25	32.23	7.28	30.67	244	0	A	H
		2484.82	55.84	-18.16	74	47	32.23	7.28	30.67	101	113	P	V
		2483.5	45.54	-8.46	54	36.7	32.23	7.28	30.67	101	113	A	V
		2480	97.98	-	-	89.14	32.23	7.28	30.67	101	113	P	V
		2480	95.55	-	-	86.71	32.23	7.28	30.67	101	113	A	V

<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												
---------------	---	--	--	--	--	--	--	--	--	--	--	--	--

2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 39 2480MHz		4965	40.76	-33.24	74	61.09	34.23	10.89	65.45	200	0	P	H
		7440	42.35	-31.65	74	58.48	35.65	13.55	65.33	200	0	P	H
		4960	40.64	-33.36	74	60.97	34.23	10.89	65.45	300	360	P	V
		7440	43.3	-30.7	74	59.43	35.65	13.55	65.33	300	360	P	V

<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												
---------------	---	--	--	--	--	--	--	--	--	--	--	--	--



UNII-2A- 5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 64 5320MHz		5350.6	62.17	-11.83	74	46.46	34.4	10.83	29.52	363	51	P	H
		5350.3	50.15	-3.85	54	34.44	34.4	10.83	29.52	363	51	A	H
	*	5320	110.09	-	-	94.37	34.4	10.79	29.47	363	51	P	H
		5320	102.88	-	-	87.16	34.4	10.79	29.47	363	51	A	H
		5350.6	60.16	-13.84	74	44.45	34.4	10.83	29.52	100	304	P	V
		5350.4	50.05	-3.95	54	34.34	34.4	10.83	29.52	100	304	A	V
	*	5320	109.35	-	-	93.63	34.4	10.79	29.47	100	304	P	V
		5320	101.98	-	-	86.26	34.4	10.79	29.47	100	304	A	V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												

UNII-2A5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 7+8	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 64 5320MHz		10641	59.29	-14.71	74	71.4	37.66	16.38	66.15	297	4	P	H
		10641	48.38	-5.62	54	60.49	37.66	16.38	66.15	297	4	A	H
		10641	55.74	-18.26	74	67.85	37.66	16.38	66.15	100	197	P	V
		10641	46.21	-7.79	54	58.32	37.66	16.38	66.15	100	197	A	V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												



**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>





A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+8		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

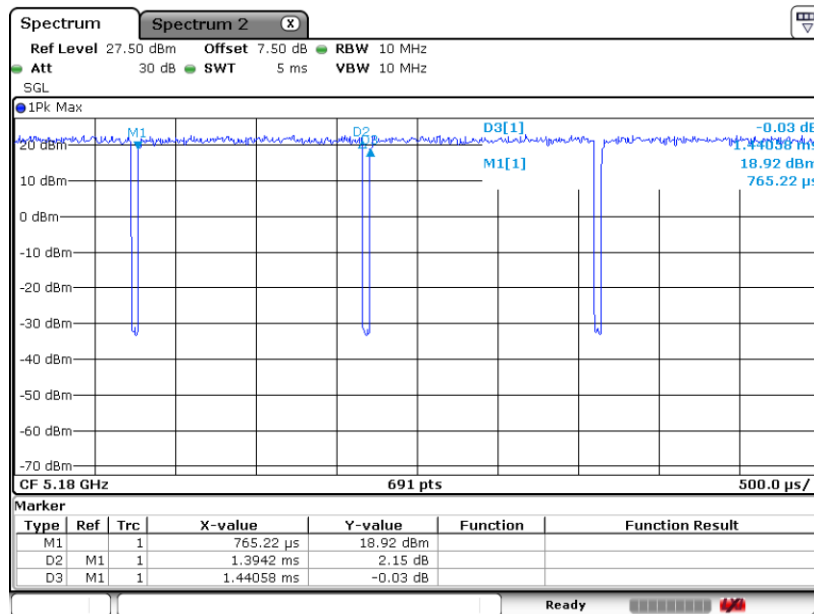
**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## Appendix D. Duty Cycle Plots

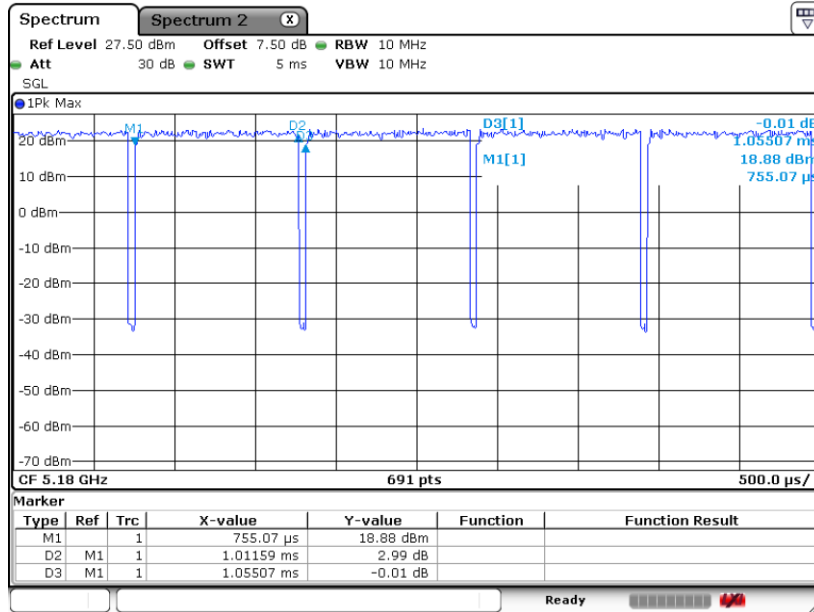
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	96.78	1.394	0.717	0.75KHz
802.11ax HE20	95.88	1.012	0.989	1KHz
802.11ax HE40	92.46	0.533	1.875	3.3KHz
802.11ax HE80	86.84	0.287	3.485	3.6KHz
802.11ax HE20_RU26	98.84	-	-	10Hz
802.11ax HE20_RU52	99.22	-	-	10Hz
802.11ax HE20_RU106	98.37	-	-	10Hz

### 802.11a

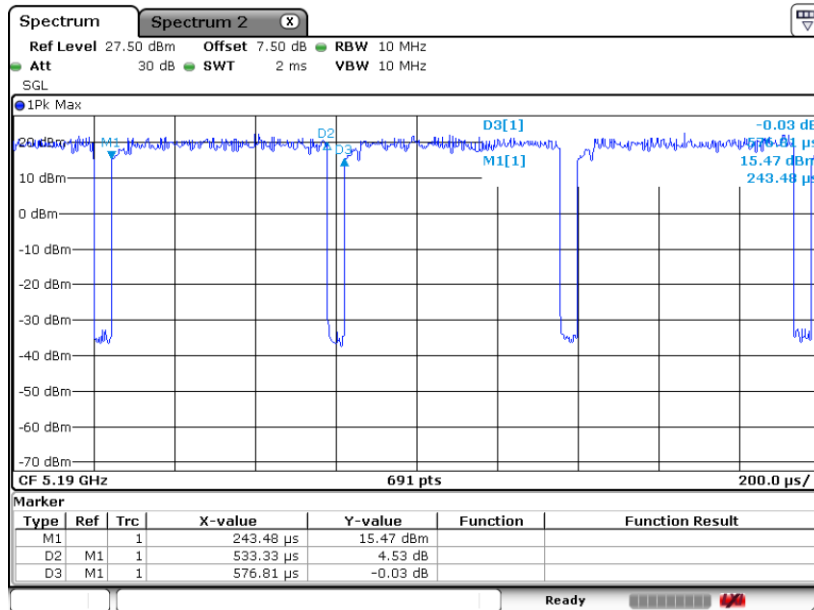




802.11ax HE20

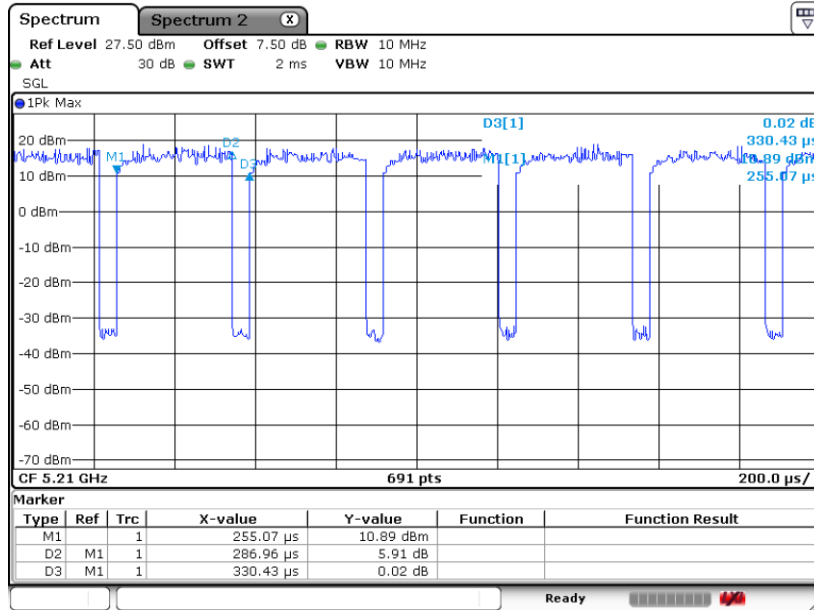


802.11 ax HE40

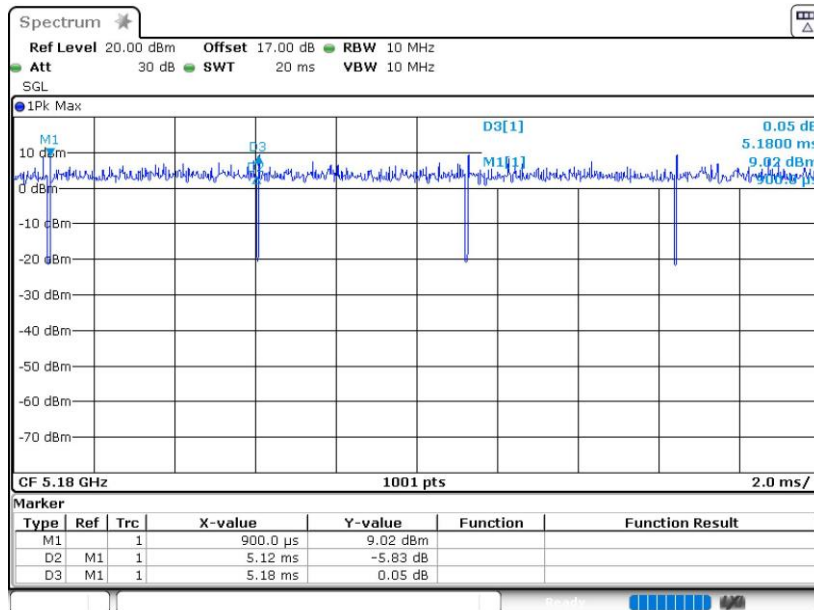




802.11 ax HE80

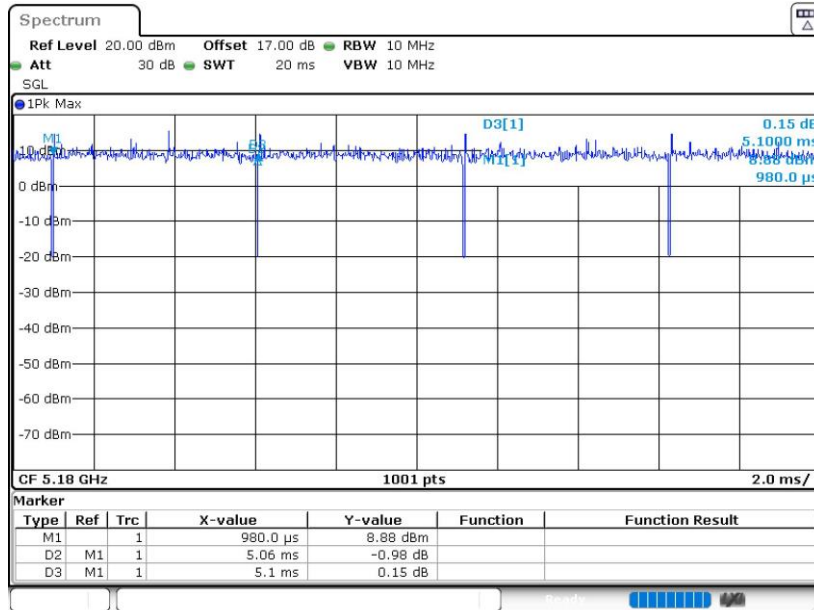


802.11ax HE20-26RU





802.11ax HE20-52RU



802.11ax HE20-106RU

