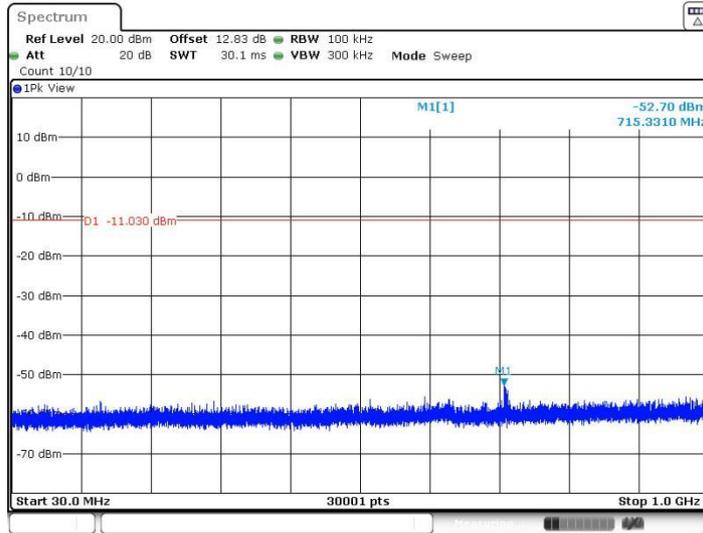


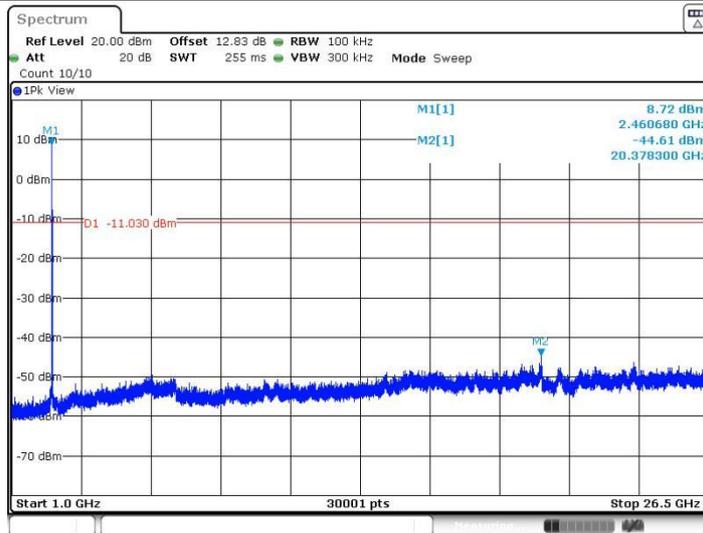


11B-CDD_Ant.7_2462_30~1000



Date: 6.NOV.2022 04:25:11

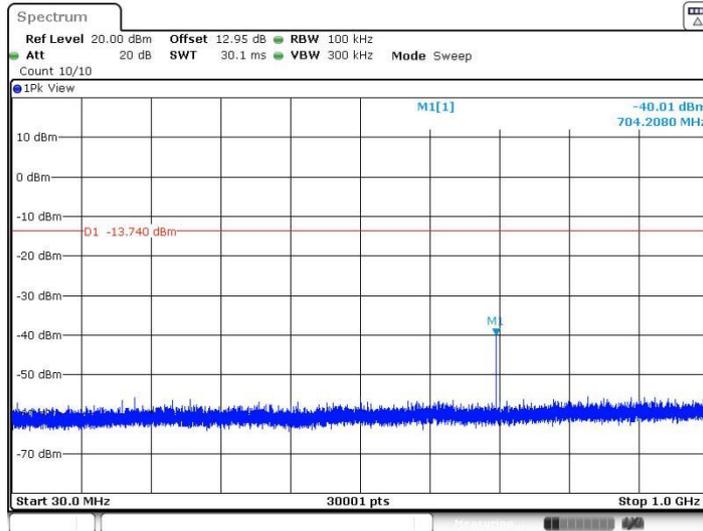
11B-CDD_Ant.7_2462_1000~26500



Date: 6.NOV.2022 04:25:48

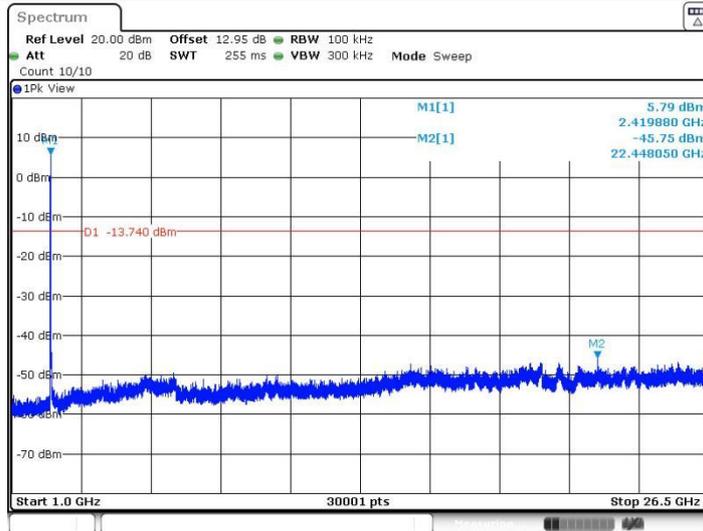


11G-CDD_Ant.16_2412_30~1000



Date: 6.NOV.2022 04:27:44

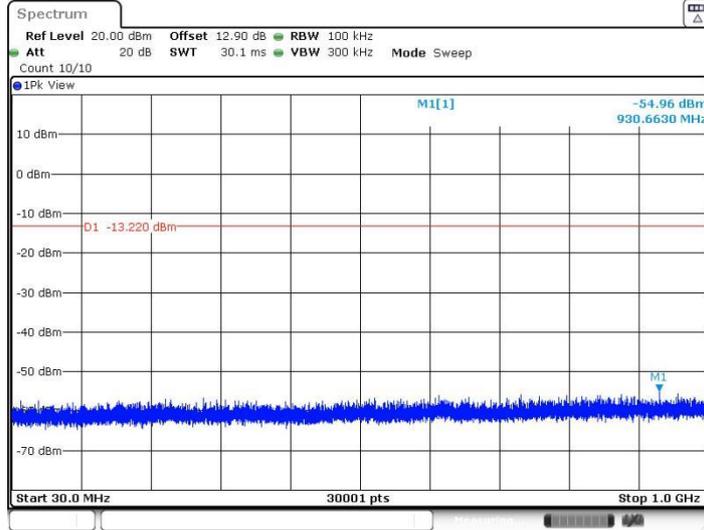
11G-CDD_Ant.16_2412_1000~26500



Date: 6.NOV.2022 04:28:21

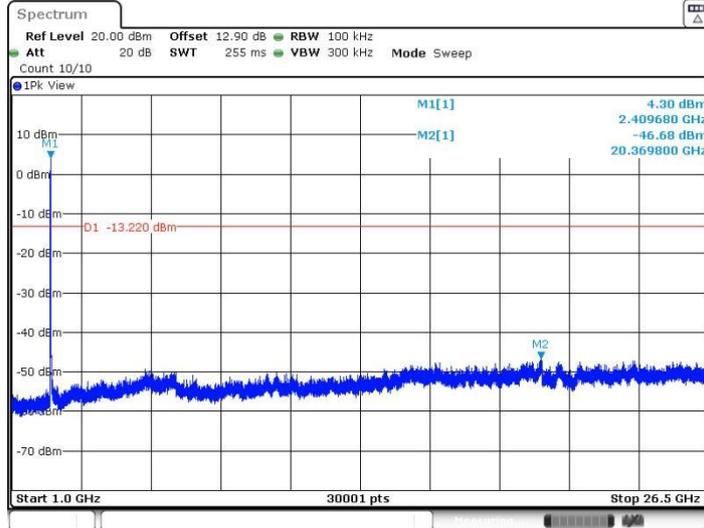


11G-CDD_Ant.7_2412_30~1000



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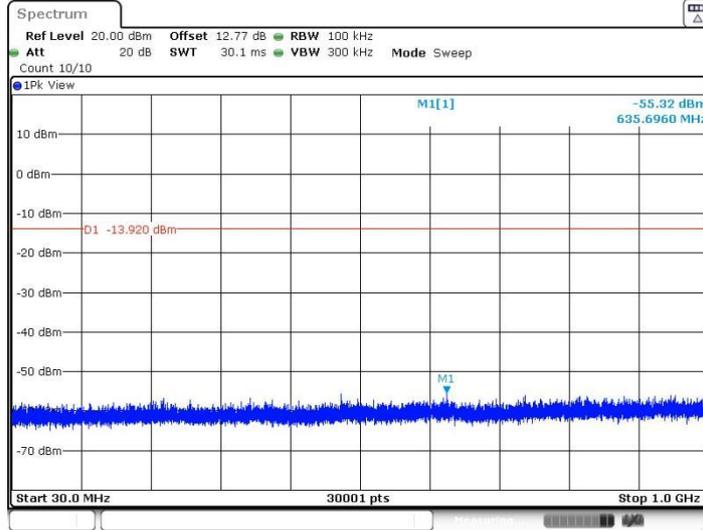
11G-CDD_Ant.7_2412_1000~26500



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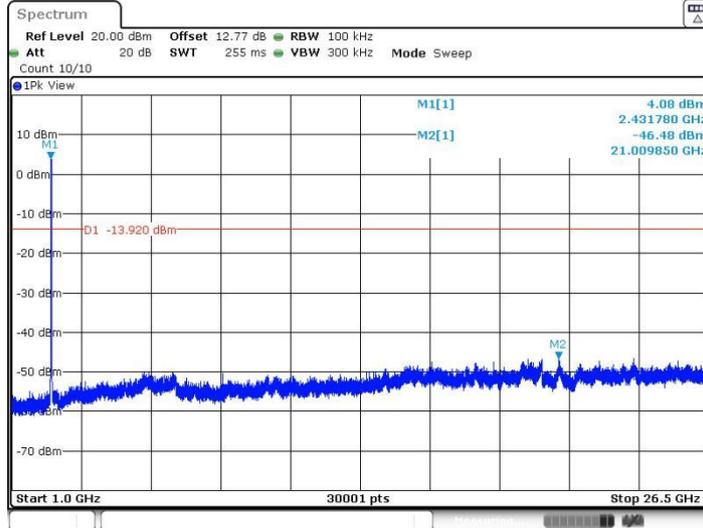


11G-CDD_Ant.16_2437_30~1000

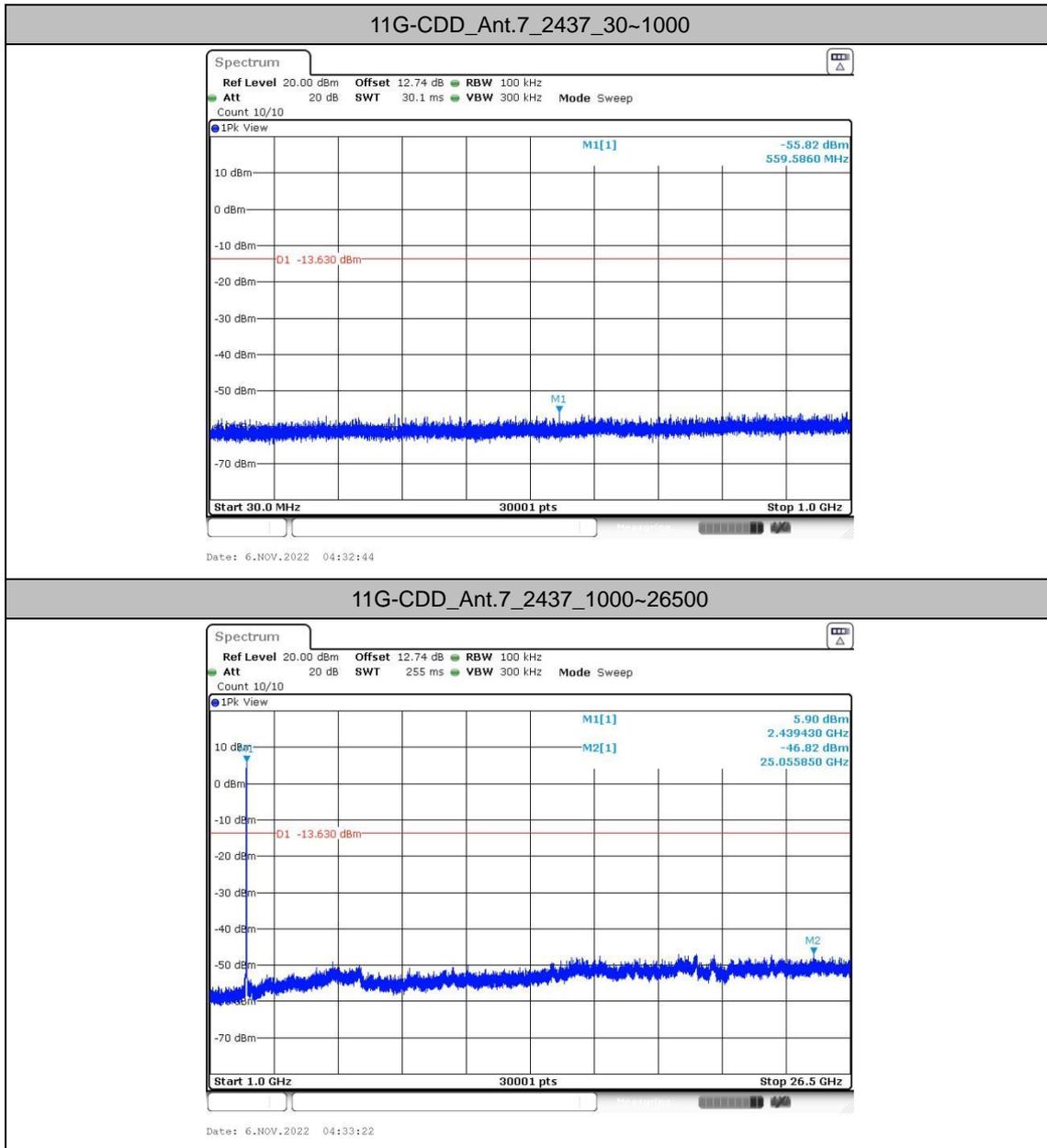


Date: 6.NOV.2022 04:31:16

11G-CDD_Ant.16_2437_1000~26500

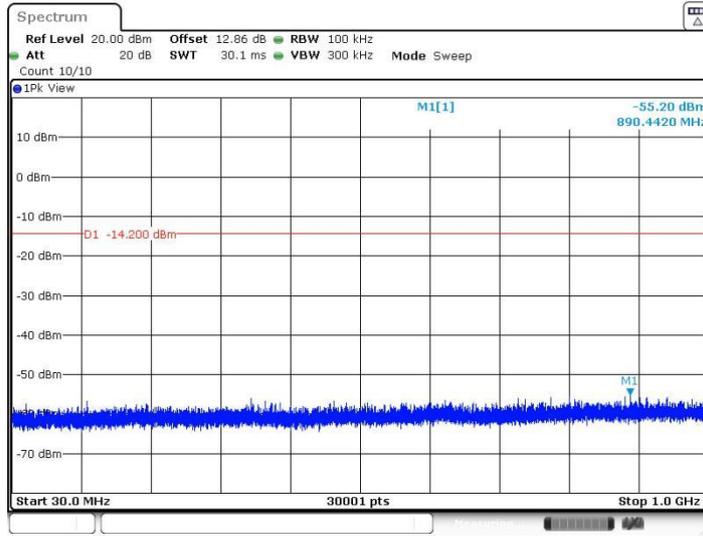


Date: 6.NOV.2022 04:31:53



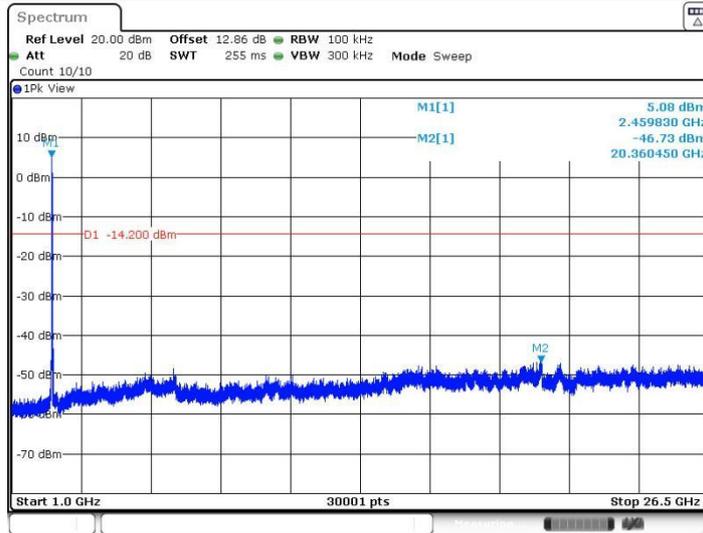


11G-CDD_Ant.16_2462_30~1000



Date: 6.NOV.2022 04:34:48

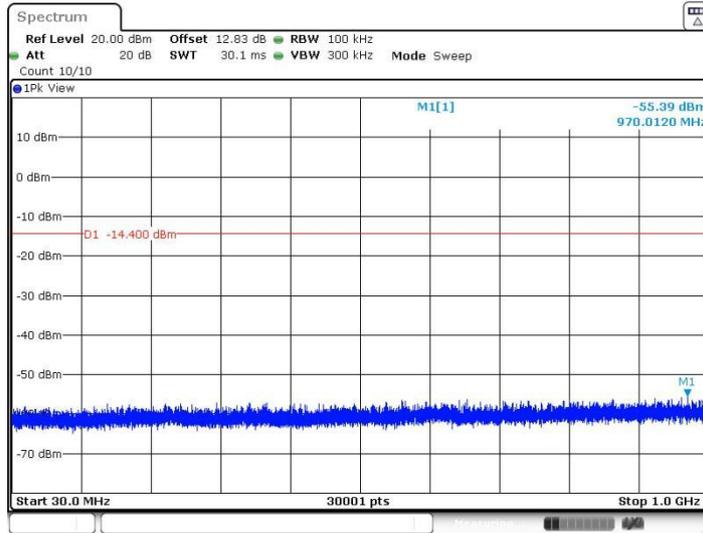
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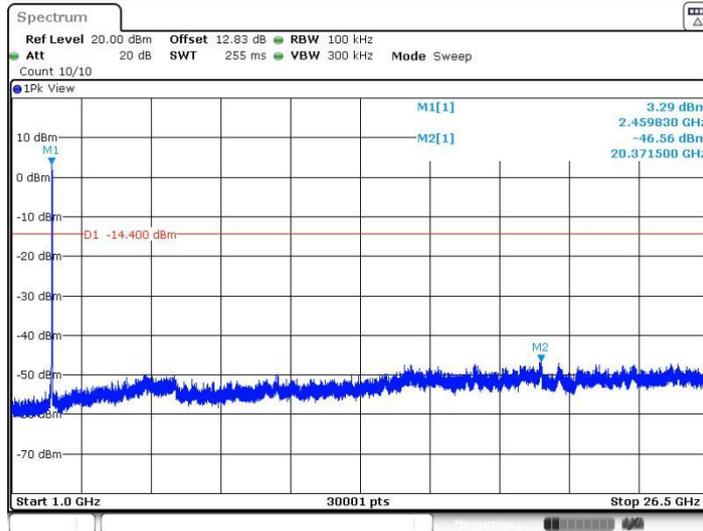


11G-CDD_Ant.7_2462_30~1000



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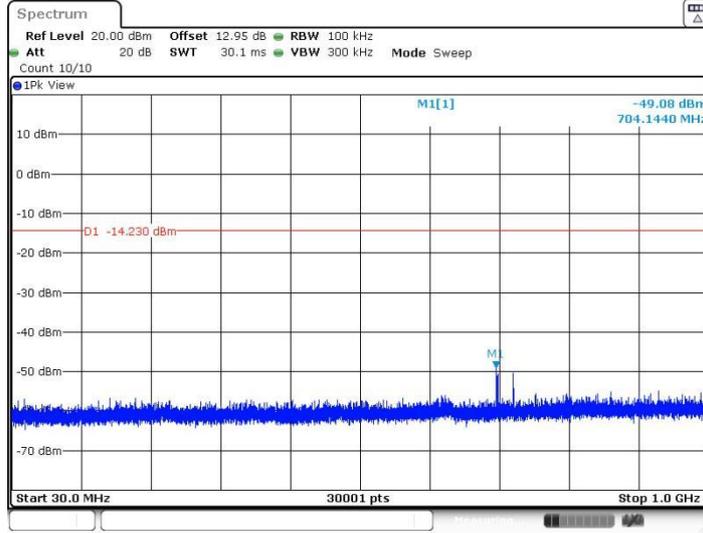
11G-CDD_Ant.7_2462_1000~26500



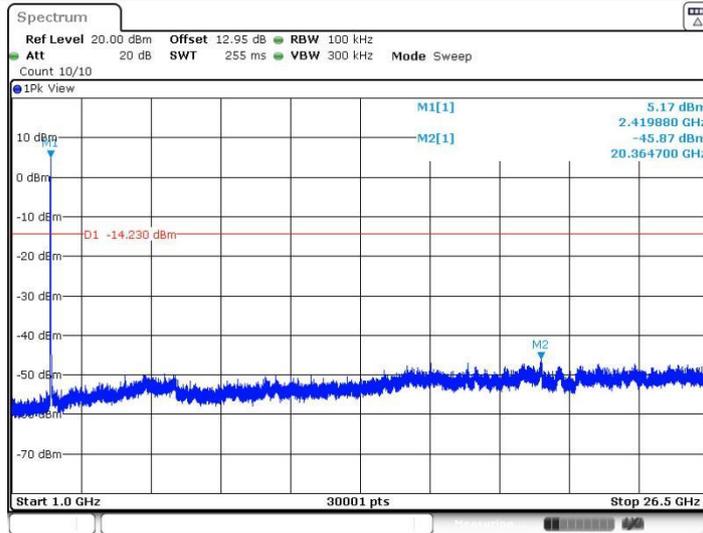
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11AX20MIMO_Ant.16_2412_30~1000

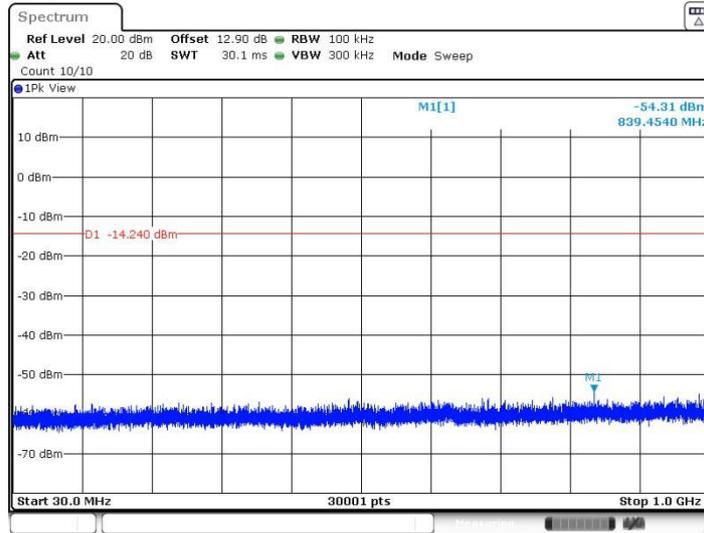


11AX20MIMO_Ant.16_2412_1000~26500



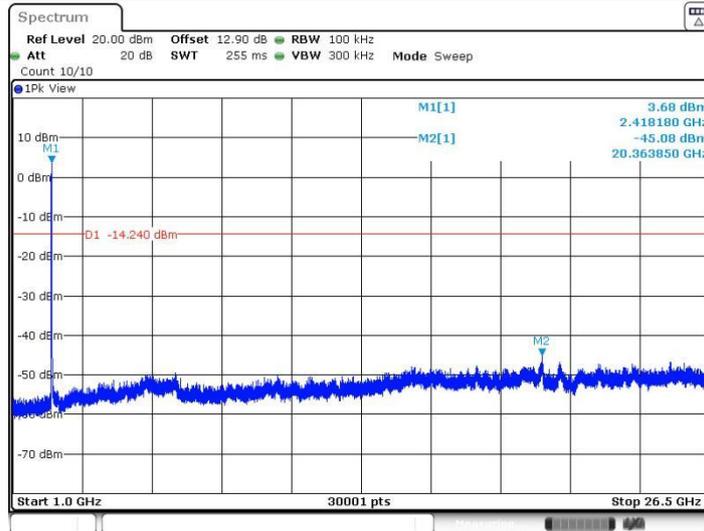


11AX20MIMO_Ant.7_2412_30~1000



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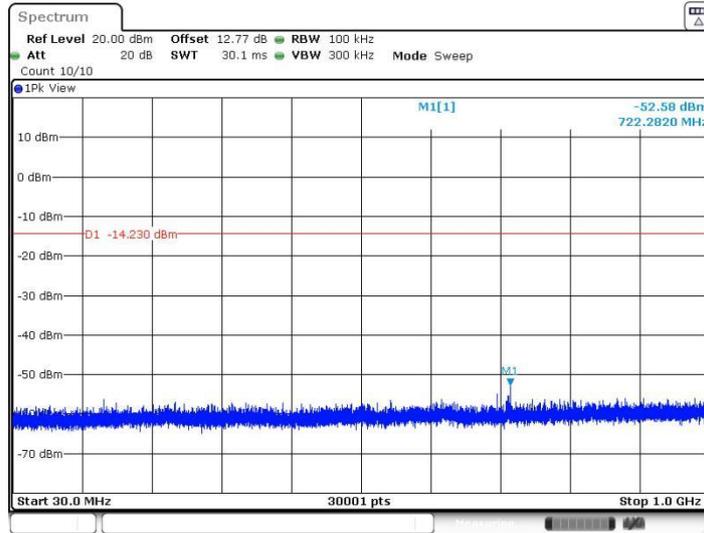
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Date: 6.NOV.2022 04:41:14

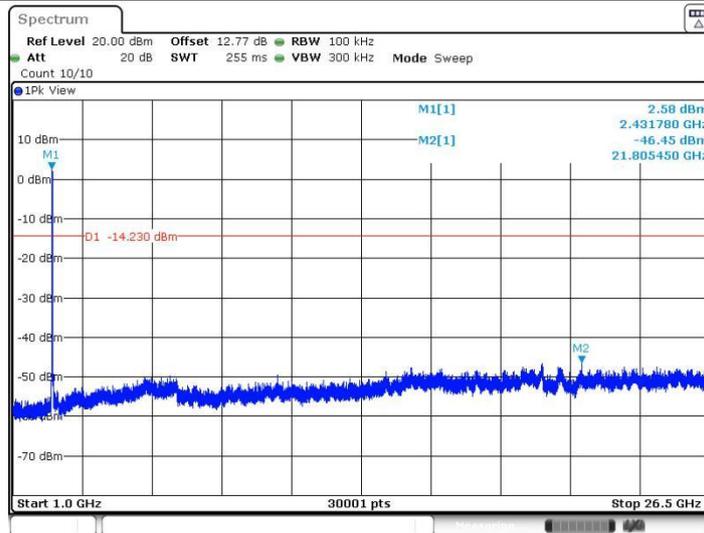


11AX20MIMO_Ant.16_2437_30~1000



Date: 6.NOV.2022 04:45:08

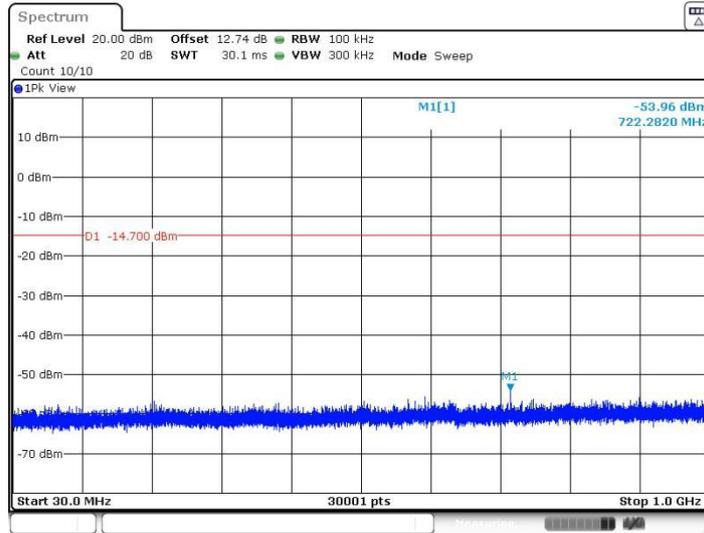
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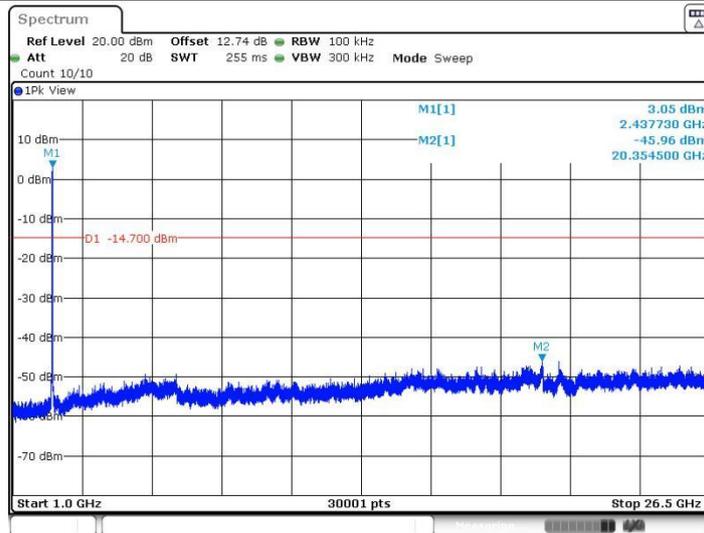


11AX20MIMO_Ant.7_2437_30~1000



Date: 6.NOV.2022 04:46:38

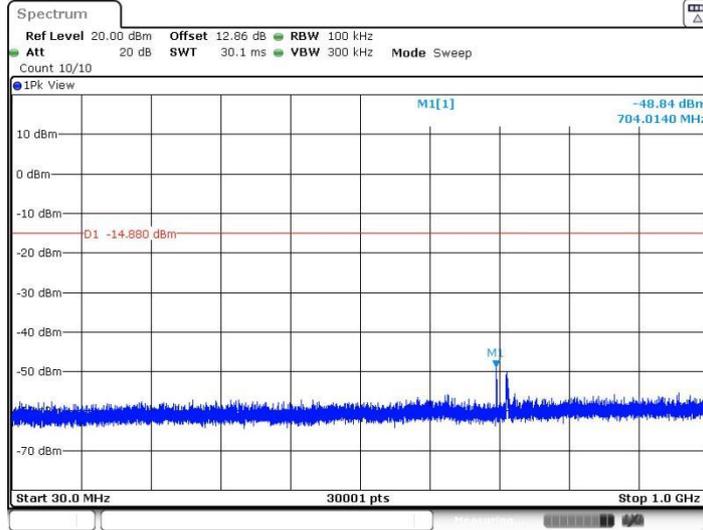
11AX20MIMO_Ant.7_2437_1000~26500



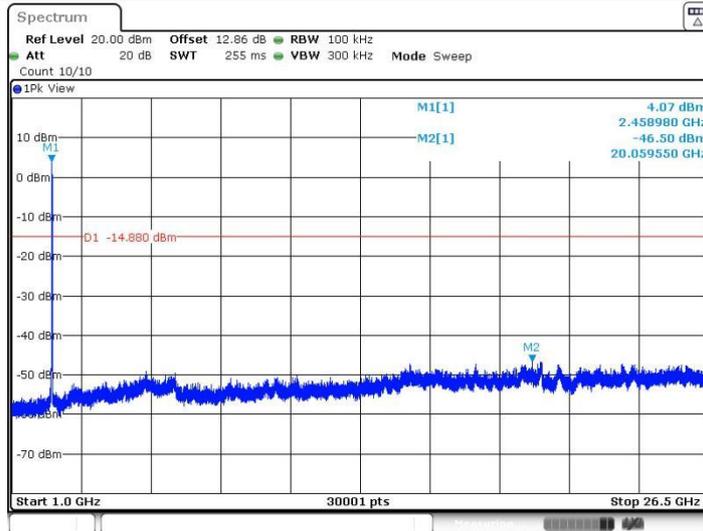
Date: 6.NOV.2022 04:47:15



11AX20MIMO_Ant.16_2462_30~1000

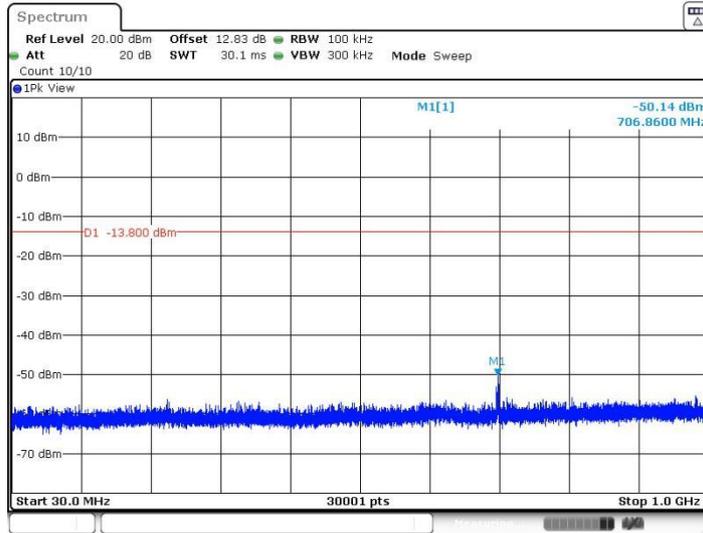


11AX20MIMO_Ant.16_2462_1000~26500



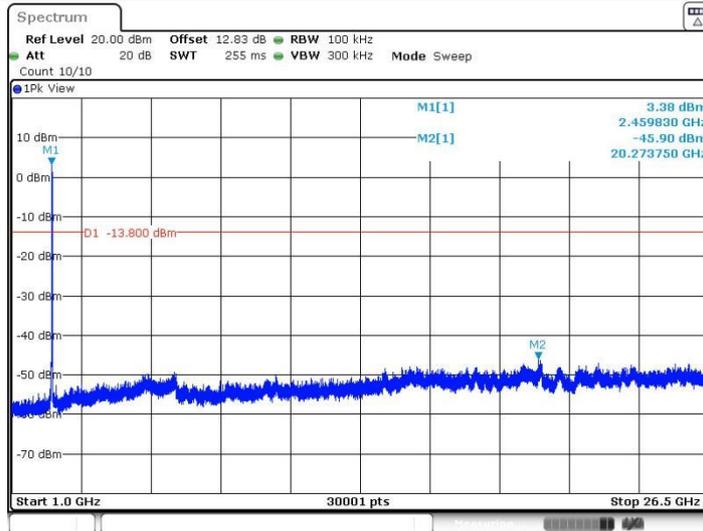


11AX20MIMO_Ant.7_2462_30~1000



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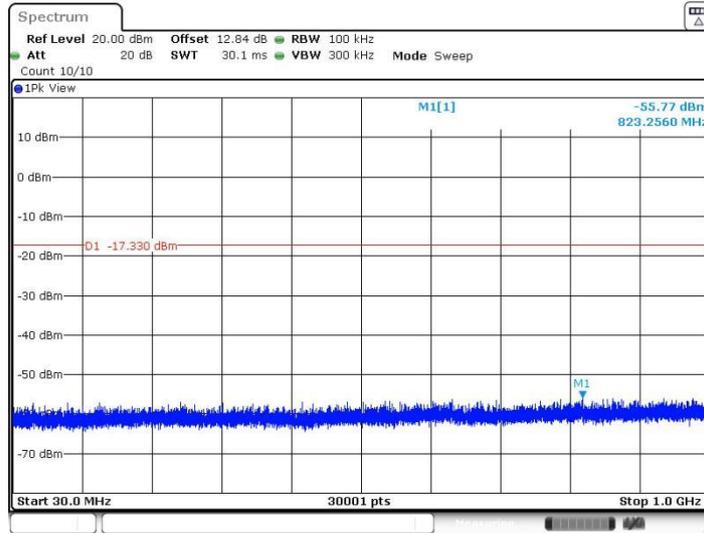
11AX20MIMO_Ant.7_2462_1000~26500



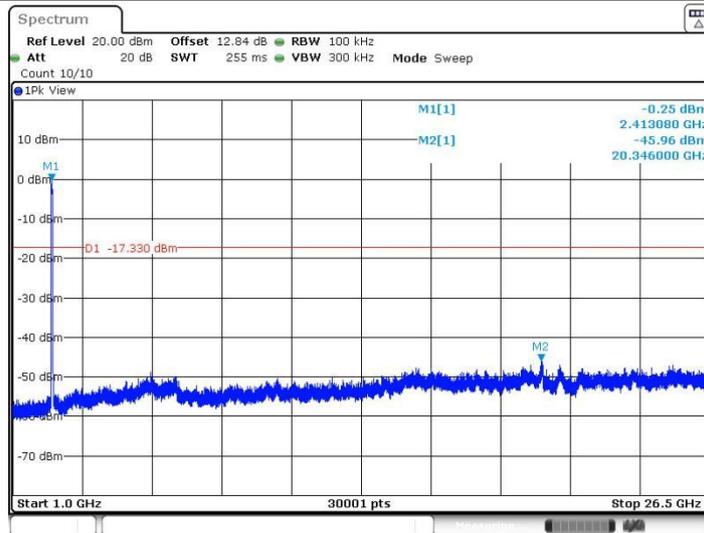
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11AX40MIMO_Ant.16_2422_30~1000

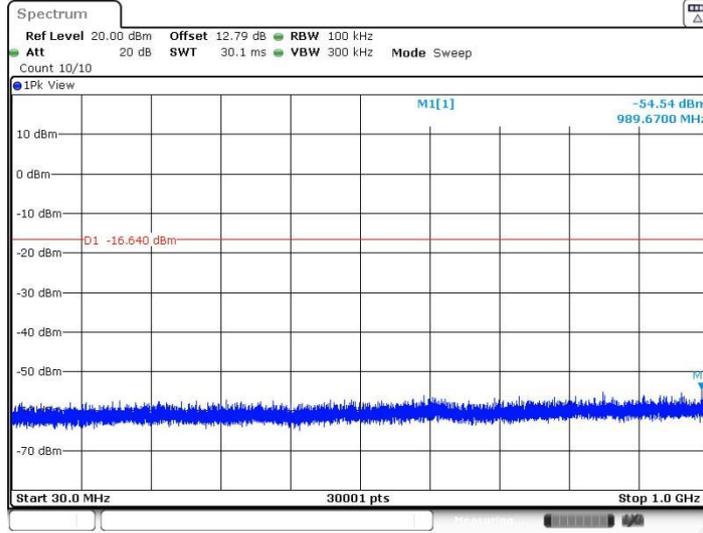


11AX40MIMO_Ant.16_2422_1000~26500



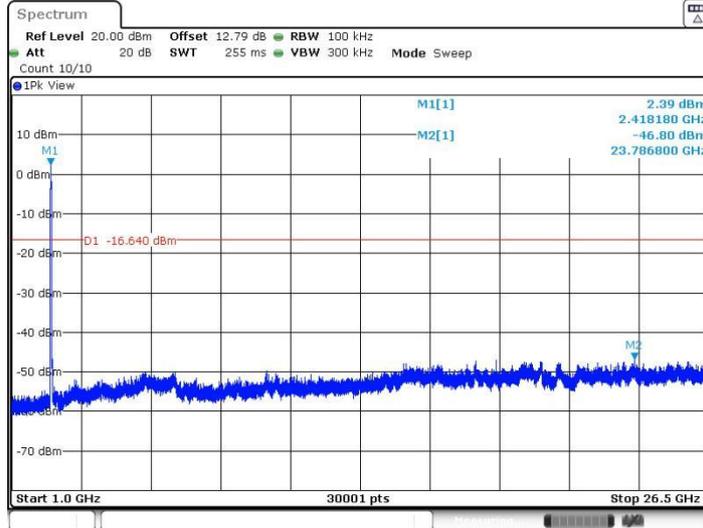


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Date: 6.NOV.2022 04:54:23

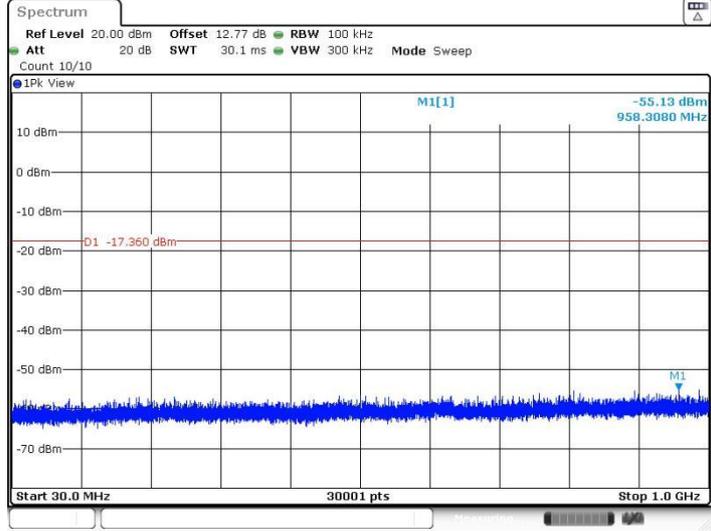
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Date: 6.NOV.2022 04:55:00

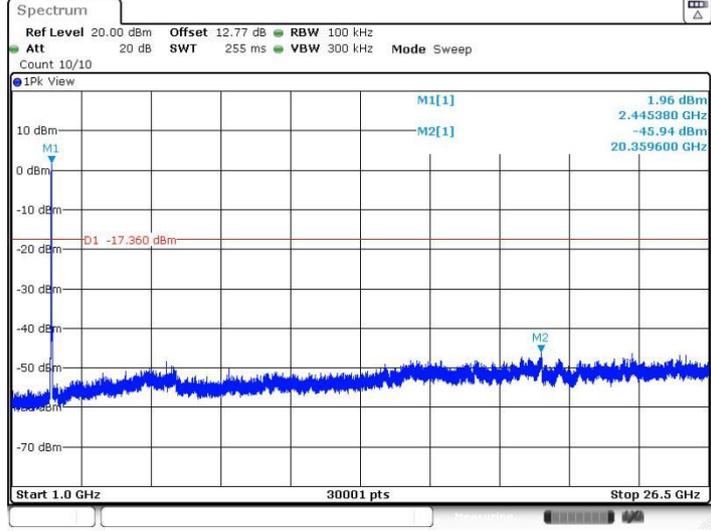


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Date: 6.NOV.2022 05:31:33

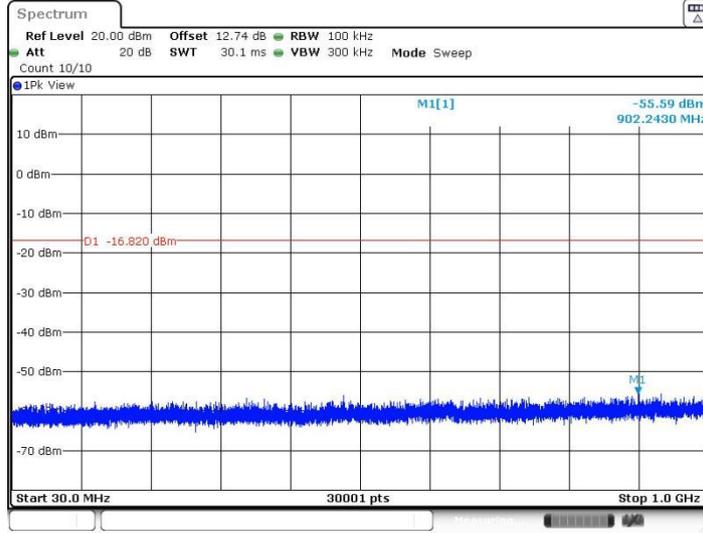
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Date: 6.NOV.2022 05:32:10

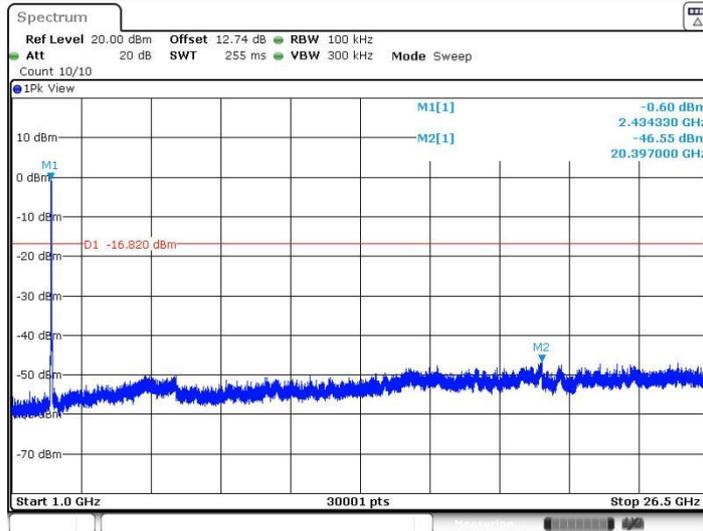


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Date: 6.NOV.2022 05:33:05

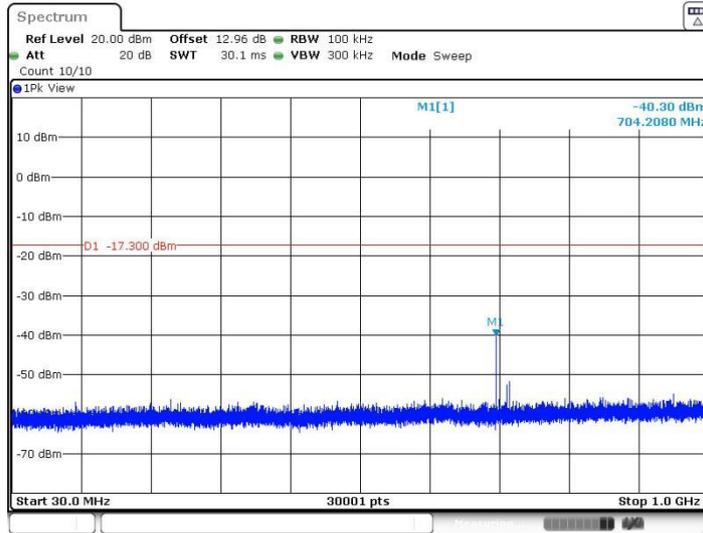
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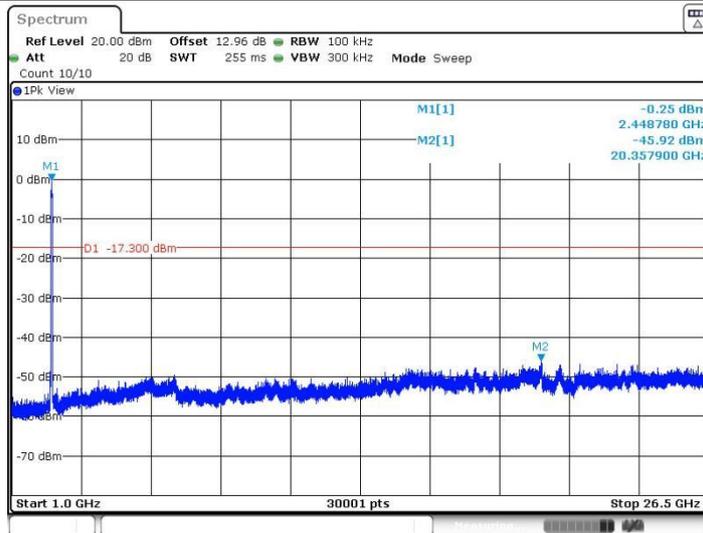
Date: 6.NOV.2022 05:33:42



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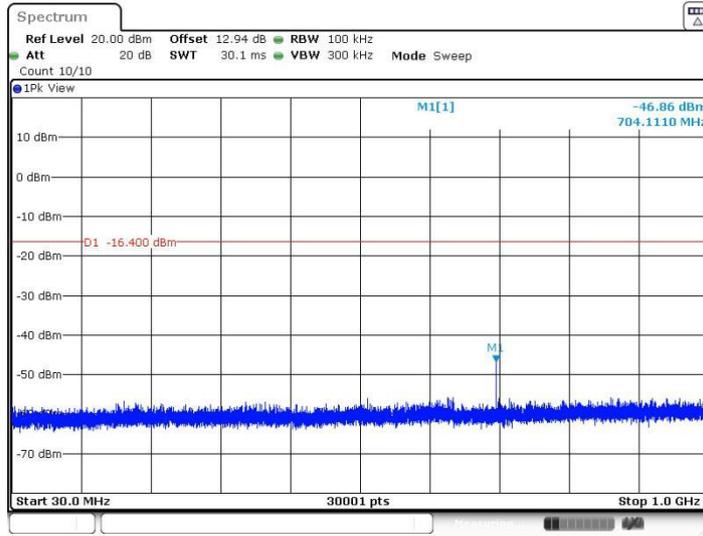


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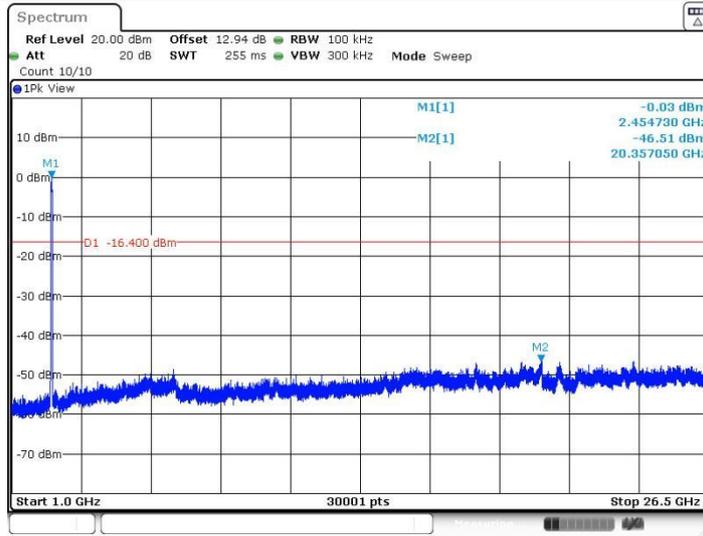




11AX40MIMO_Ant.7_2452_30~1000



11AX40MIMO_Ant.7_2452_1000~26500





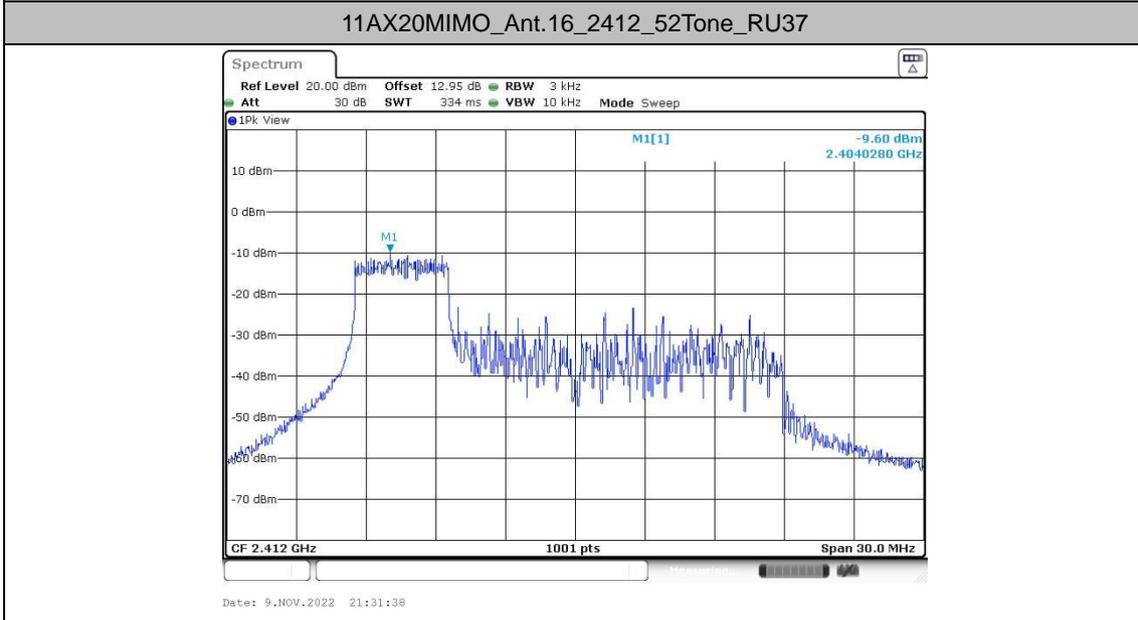
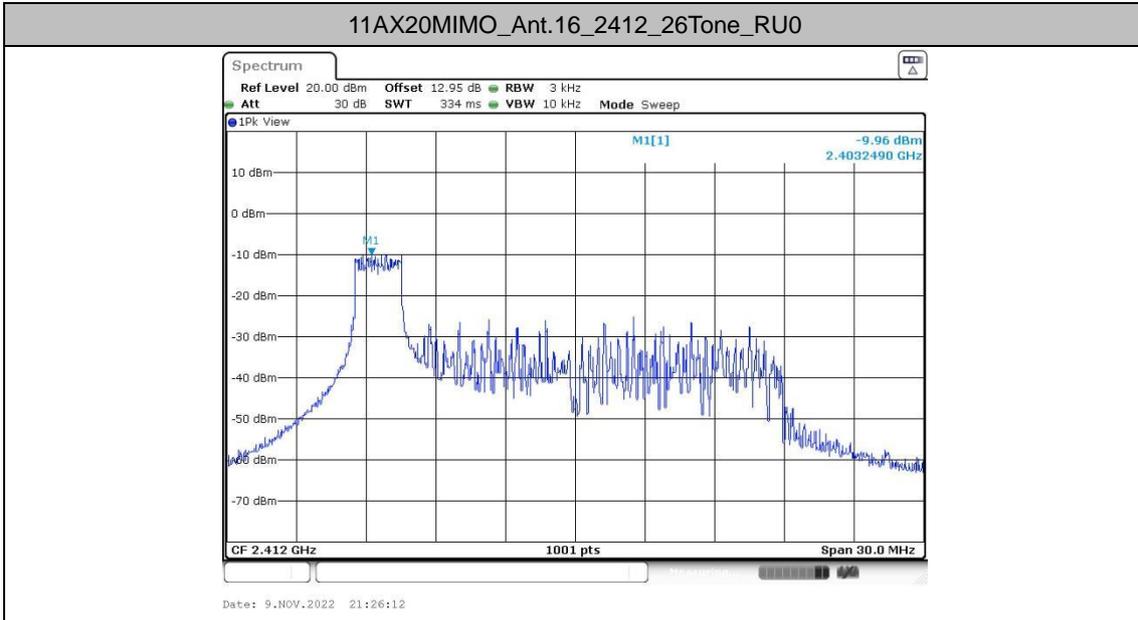
Maximum power spectral density for 802.11ax partial RU

Test Result

TestMode	Antenna	Freq(MHz)	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11AX20	Ant.16	2412	26Tone	RU0	-9.96	≤8.00	PASS
			52Tone	RU37	-9.6	≤8.00	PASS
			106Tone	RU53	-9.28	≤8.00	PASS
	Ant.7	2412	26Tone	RU0	-8.71	≤8.00	PASS
			52Tone	RU37	-8.67	≤8.00	PASS
			106Tone	RU53	-8.77	≤8.00	PASS
	total	2412	26Tone	RU0	-6.28	≤8.00	PASS
			52Tone	RU37	-6.10	≤8.00	PASS
			106Tone	RU53	-6.01	≤8.00	PASS
	Ant.16	2437	26Tone	RU0	-9.04	≤8.00	PASS
			52Tone	RU37	-9.19	≤8.00	PASS
			106Tone	RU53	-8.73	≤8.00	PASS
	Ant.7	2437	26Tone	RU0	-8.87	≤8.00	PASS
			52Tone	RU37	-8.82	≤8.00	PASS
			106Tone	RU53	-9.2	≤8.00	PASS
	total	2437	26Tone	RU0	-5.94	≤8.00	PASS
			52Tone	RU37	-5.99	≤8.00	PASS
			106Tone	RU53	-5.95	≤8.00	PASS
	Ant.16	2462	26Tone	RU8	-10.1	≤8.00	PASS
			52Tone	RU40	-10.01	≤8.00	PASS
			106Tone	RU54	-9.99	≤8.00	PASS
	Ant.7	2462	26Tone	RU8	-10.36	≤8.00	PASS
			52Tone	RU40	-9.74	≤8.00	PASS
			106Tone	RU54	-10.09	≤8.00	PASS
	total	2462	26Tone	RU8	-7.22	≤8.00	PASS
			52Tone	RU40	-6.86	≤8.00	PASS
			106Tone	RU54	-7.03	≤8.00	PASS

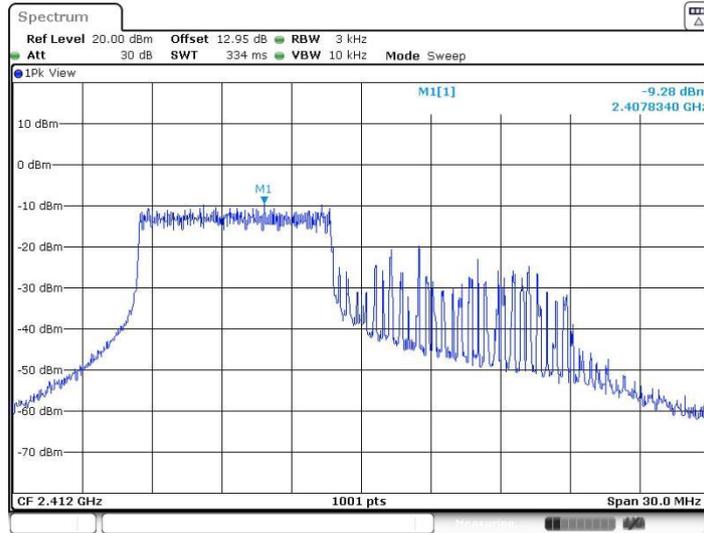


Test Graphs

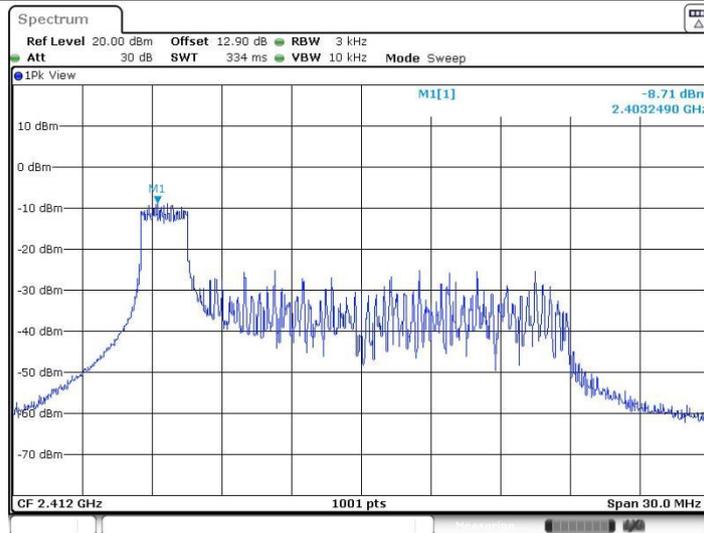




11AX20MIMO_Ant.16_2412_106Tone_RU53

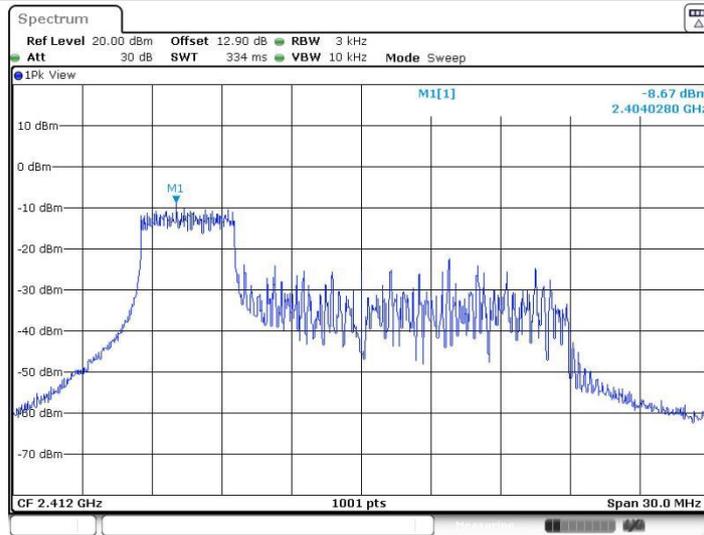


11AX20MIMO_Ant.7_2412_26Tone_RU0

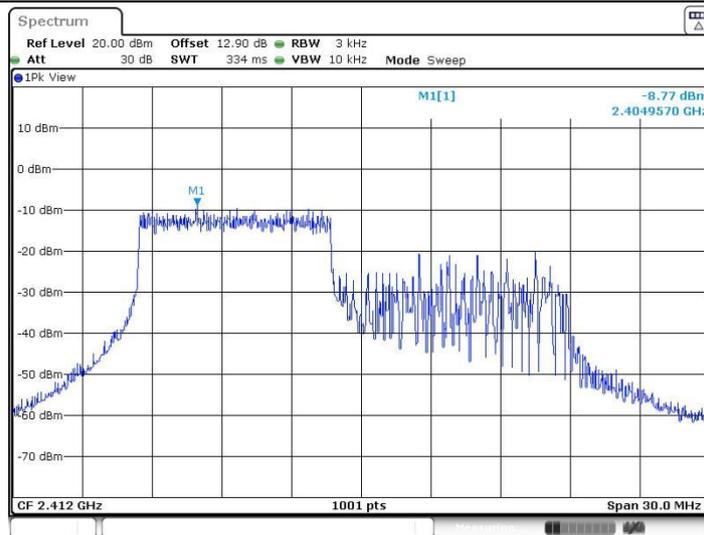




11AX20MIMO_Ant.7_2412_52Tone_RU37

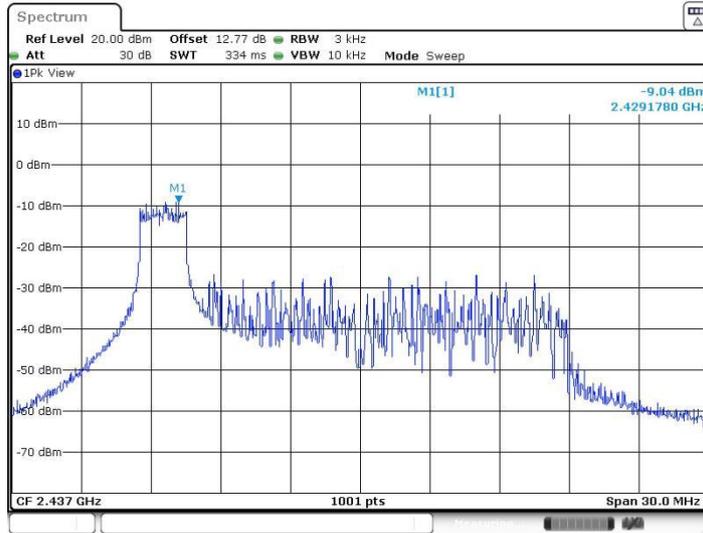


11AX20MIMO_Ant.7_2412_106Tone_RU53



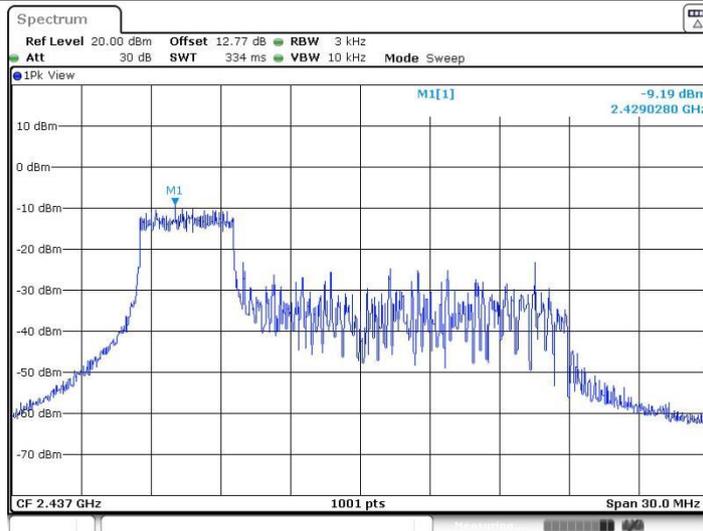


11AX20MIMO_Ant.16_2437_26Tone_RU0



Date: 9.NOV.2022 21:23:39

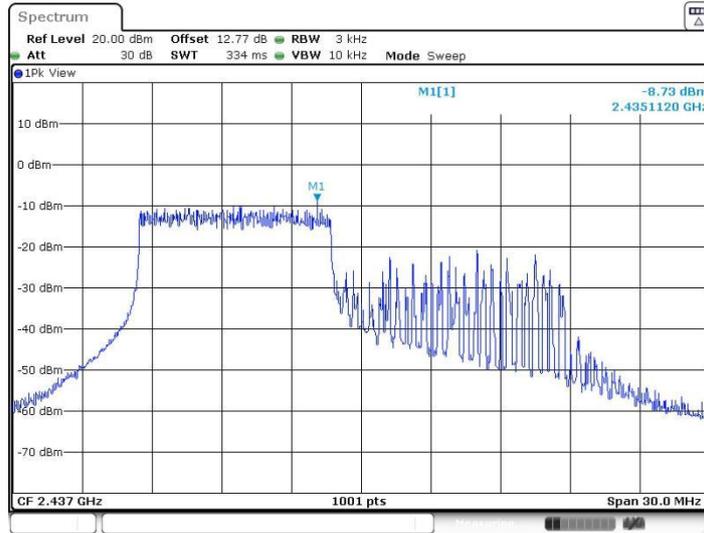
11AX20MIMO_Ant.16_2437_52Tone_RU37



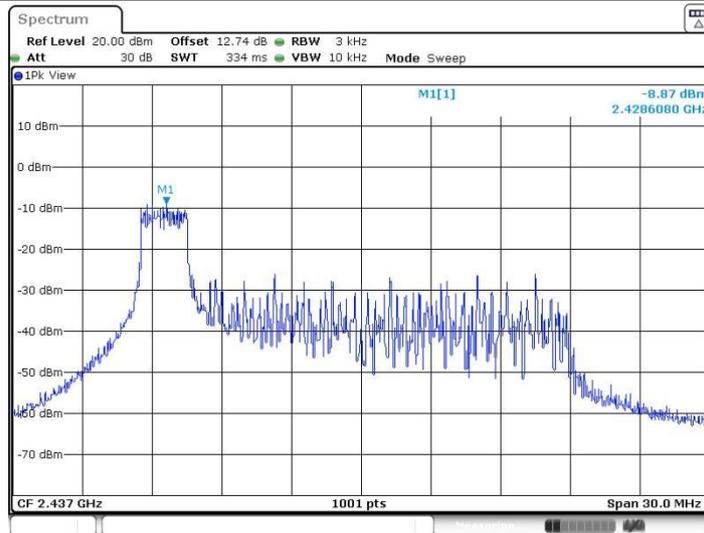
Date: 9.NOV.2022 21:33:10



11AX20MIMO_Ant.16_2437_106Tone_RU53

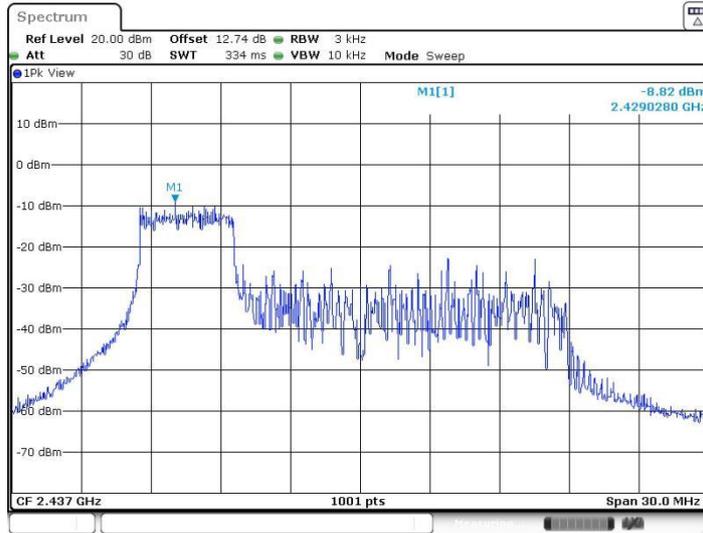


11AX20MIMO_Ant.7_2437_26Tone_RU0

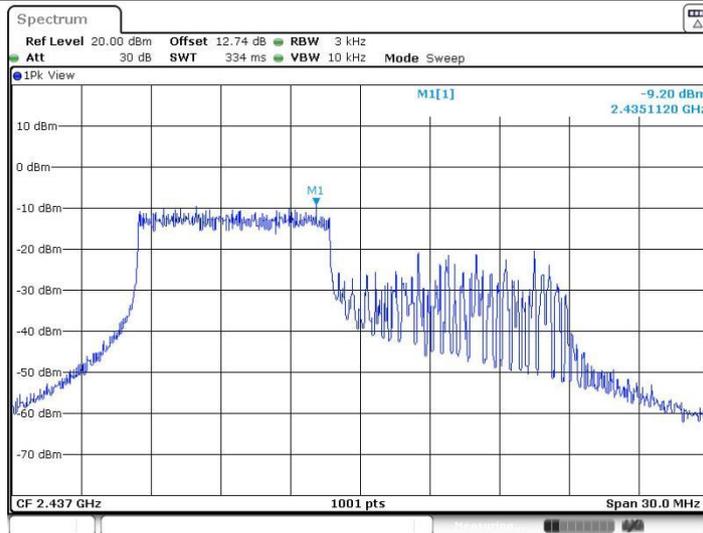




11AX20MIMO_Ant.7_2437_52Tone_RU37

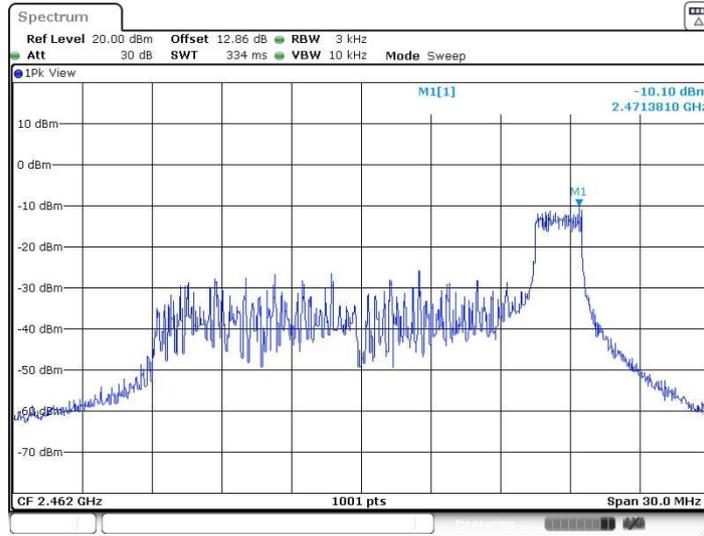


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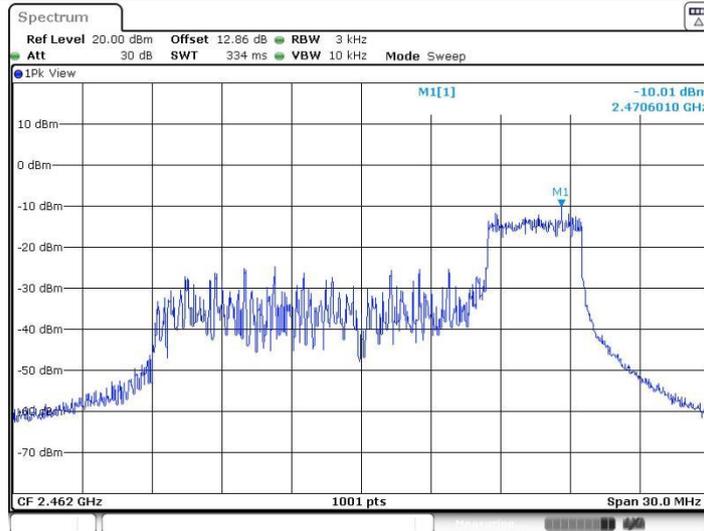


11AX20MIMO_Ant.16_2462_26Tone_RU8



Date: 9.NOV.2022 21:43:08

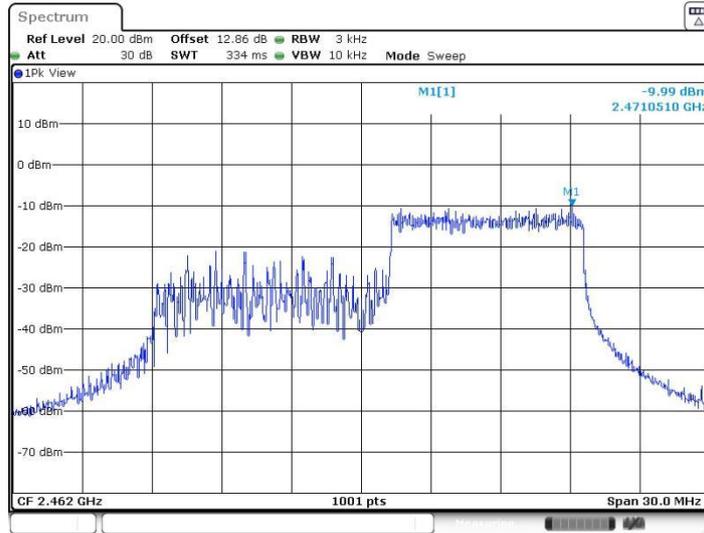
11AX20MIMO_Ant.16_2462_52Tone_RU40



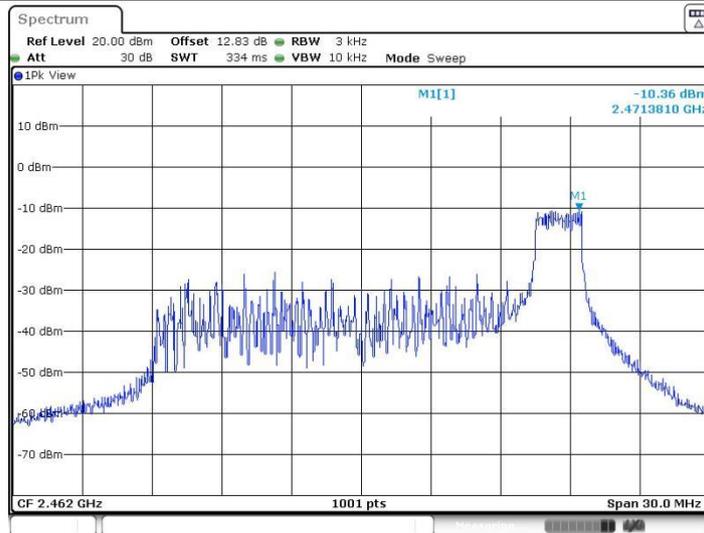
Date: 9.NOV.2022 21:44:54



11AX20MIMO_Ant.16_2462_106Tone_RU54

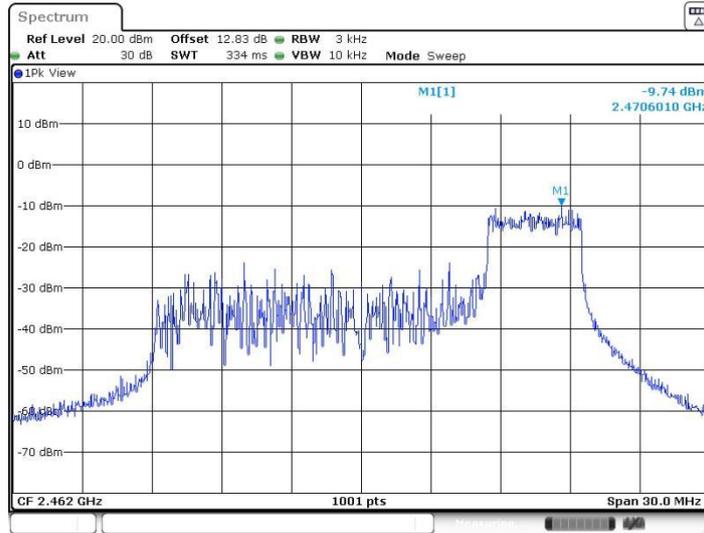


11AX20MIMO_Ant.7_2462_26Tone_RU8



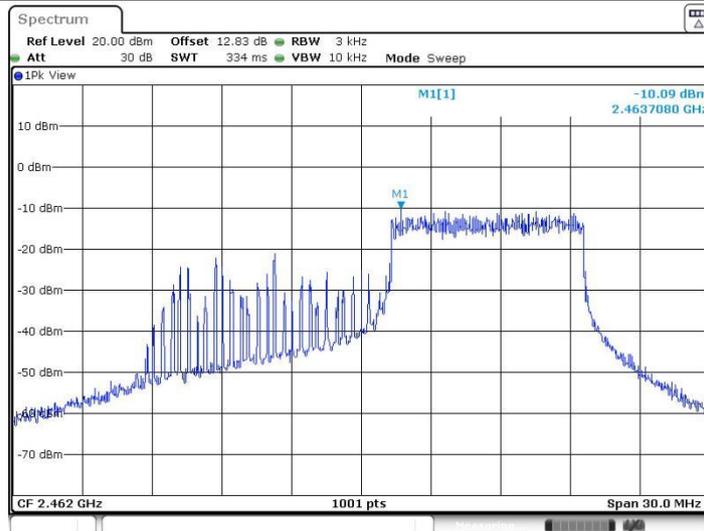


11AX20MIMO_Ant.7_2462_52Tone_RU40



Date: 9.NOV.2022 21:45:41

11AX20MIMO_Ant.7_2462_106Tone_RU54

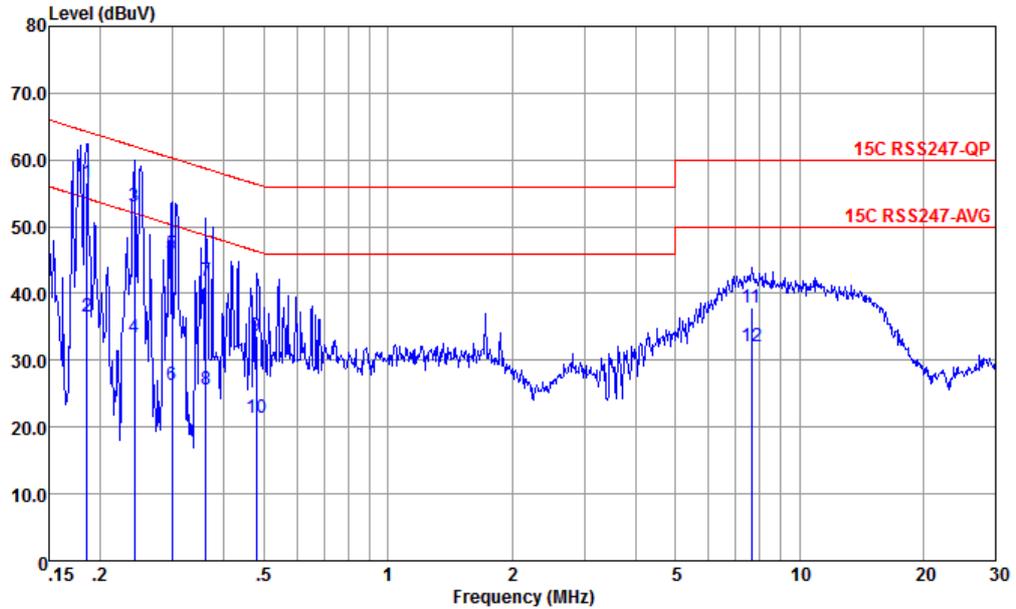


Date: 9.NOV.2022 21:48:31



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.		

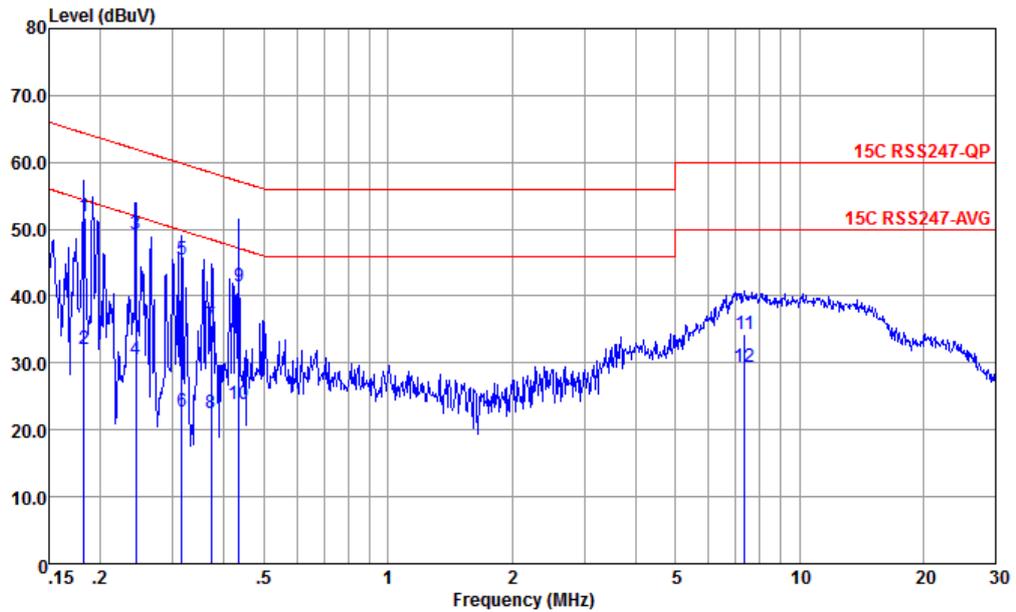


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.185	56.66	-7.58	64.24	46.21	0.03	10.42	QP
2	0.185	36.66	-17.58	54.24	26.21	0.03	10.42	Average
3	0.242	52.93	-9.11	62.04	42.50	0.04	10.39	QP
4	0.242	33.33	-18.71	52.04	22.90	0.04	10.39	Average
5	0.299	45.91	-14.37	60.28	35.50	0.06	10.35	QP
6	0.299	26.21	-24.07	50.28	15.80	0.06	10.35	Average
7	0.361	41.84	-16.85	58.69	31.49	0.03	10.32	QP
8	0.361	25.54	-23.15	48.69	15.19	0.03	10.32	Average
9	0.479	33.70	-22.66	56.36	23.49	-0.02	10.23	QP
10	0.479	21.40	-24.96	46.36	11.19	-0.02	10.23	Average
11	7.646	37.80	-22.20	60.00	27.60	-0.15	10.35	QP
12	7.646	32.00	-18.00	50.00	21.80	-0.15	10.35	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 : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.182	51.97	-12.40	64.37	41.51	0.04	10.42	QP
2	0.182	32.07	-22.30	54.37	21.61	0.04	10.42	Average
3	0.244	49.19	-12.76	61.95	38.80	0.00	10.39	QP
4	0.244	30.59	-21.36	51.95	20.20	0.00	10.39	Average
5	0.315	45.49	-14.35	59.84	35.20	-0.05	10.34	QP
6	0.315	22.79	-27.05	49.84	12.50	-0.05	10.34	Average
7	0.371	35.75	-22.72	58.47	25.50	-0.06	10.31	QP
8	0.371	22.45	-26.02	48.47	12.20	-0.06	10.31	Average
9	0.435	41.39	-15.76	57.15	31.19	-0.07	10.27	QP
10	0.435	23.79	-23.36	47.15	13.59	-0.07	10.27	Average
11	7.368	34.38	-25.62	60.00	24.20	-0.13	10.31	QP
12	7.368	29.48	-20.52	50.00	19.30	-0.13	10.31	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

Only the worst mode for each operation mode are shown in the report.

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
CDD 7+16		2486.5	55.01	-18.99	74	48.49	32.43	6.73	32.64	149	200	P	H
		2486.44	44.76	-9.24	54	38.24	32.43	6.73	32.64	149	200	A	H
	*	2462	110.05	-	-	103.69	32.37	6.7	32.71	149	200	P	H
	*	2464	107.56	-	-	101.2	32.37	6.7	32.71	149	200	A	H
802.11b		2499.34	54.73	-19.27	74	48.05	32.5	6.75	32.57	275	145	P	V
CH 11		2486.32	43.36	-10.64	54	36.84	32.43	6.73	32.64	275	145	A	V
2462MHz	*	2462	101	-	-	94.64	32.37	6.7	32.71	275	145	P	V
	*	2464	98.7	-	-	92.34	32.37	6.7	32.71	275	145	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 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
CDD 7+16		4920	40.47	-33.53	74	58.53	34.1	9.58	61.74	300	0	P	H
		7380	42.17	-31.83	74	56.82	35.7	11.71	62.06	300	0	P	H
802.11b		4920	40.11	-33.89	74	58.17	34.1	9.58	61.74	100	0	P	V
CH 11		7380	42.25	-31.75	74	56.9	35.7	11.71	62.06	100	0	P	V
2462MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (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)
CDD 7+16 802.11g CH 11 2462MHz	*	2460	110.94	-	-	104.58	32.37	6.7	32.71	100	139	P	H
	*	2460	102.36	-	-	96	32.37	6.7	32.71	100	139	A	H
		2484.4	62.98	-11.02	74	56.46	32.43	6.73	32.64	100	139	P	H
		2483.5	50.68	-3.32	54	44.16	32.43	6.73	32.64	100	139	A	H
	*	2460	107.8	-	-	101.44	32.37	6.7	32.71	298	47	P	V
	*	2460	100.18	-	-	93.82	32.37	6.7	32.71	298	47	A	V
		2484.58	59.71	-14.29	74	53.19	32.43	6.73	32.64	298	47	P	V
		2483.5	47.27	-6.73	54	40.75	32.43	6.73	32.64	298	47	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 802.11g (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)
CDD 7+16 802.11g CH 11 2462MHz		4920	40.54	-33.46	74	58.6	34.1	9.58	61.74	300	0	P	H
		7380	46.99	-27.01	74	61.64	35.7	11.71	62.06	300	0	P	H
		4920	40.69	-33.31	74	58.75	34.1	9.58	61.74	100	0	P	V
		7380	52.42	-21.58	74	67.07	35.7	11.71	62.06	100	173	P	V
		7380	41.71	-12.29	54	56.36	35.7	11.71	62.06	100	173	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 (Band Edge @ 3m)

WIFI Ant. CDD 7+16	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)
8802.11ax HE20 Full CH 11 2462MHz	*	2458	111.24	-	-	104.88	32.37	6.7	32.71	100	140	P	H
	*	2458	101.31	-	-	94.95	32.37	6.7	32.71	100	140	A	H
		2486.8	63.86	-10.14	74	57.34	32.43	6.73	32.64	100	140	P	H
		2483.68	50.87	-3.13	54	44.35	32.43	6.73	32.64	100	140	A	H
	*	2458	110.29	-	-	103.93	32.37	6.7	32.71	337	52	P	V
	*	2458	99.91	-	-	93.55	32.37	6.7	32.71	337	52	A	V
		2485	59.43	-14.57	74	52.91	32.43	6.73	32.64	337	52	P	V
	2485	46.84	-7.16	54	40.32	32.43	6.73	32.64	337	52	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. CDD 7+16	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 11 2462MHz		4920	39.77	-34.23	74	57.83	34.1	9.58	61.74	300	0	P	H
		7380	46	-28	74	60.65	35.7	11.71	62.06	300	0	P	H
		4920	39.84	-34.16	74	57.9	34.1	9.58	61.74	100	0	P	V
		7380	47.5	-26.5	74	62.15	35.7	11.71	62.06	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 26 (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 26/8 CH 11 2462MHz		2470	107.84	-	-	101.41	32.37	6.7	32.64	287	28	P	H
		2470	99.65	-	-	93.22	32.37	6.7	32.64	287	28	A	H
		2484.88	54.47	-19.53	74	47.95	32.43	6.73	32.64	287	28	P	H
		2487.88	43.61	-10.39	54	37	32.5	6.75	32.64	287	28	A	H
		2470	106.83	-	-	100.4	32.37	6.7	32.64	366	268	P	V
		2470	98.29	-	-	91.86	32.37	6.7	32.64	366	268	A	V
		2490.1	54.86	-19.14	74	48.25	32.5	6.75	32.64	366	268	P	V
		2497.84	43.58	-10.42	54	36.9	32.5	6.75	32.57	366	268	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 802.11ax 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 52/40 CH 11 2462MHz		2488.9	54.6	-19.4	74	47.99	32.5	6.75	32.64	136	296	P	H
		2485.6	43.62	-10.38	54	37.1	32.43	6.73	32.64	136	296	A	H
		2468	107.84	-	-	101.41	32.37	6.7	32.64	136	296	P	H
		2468	97.98	-	-	91.55	32.37	6.7	32.64	136	296	A	H
		2499.7	54.64	-19.36	74	47.96	32.5	6.75	32.57	362	240	P	V
		2498.68	43.58	-10.42	54	36.9	32.5	6.75	32.57	362	240	A	V
		2468	106.56	-	-	100.13	32.37	6.7	32.64	362	240	P	V
		2468	97.6	-	-	91.17	32.37	6.7	32.64	362	240	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 802.11ax HE20 Partial 106 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. CDD 7+16, 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 data for 802.11ax HE20 Partial 106/54 CH 11 2462MHz and a Remark section.



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax 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 09 2452MHz		2386.18	54.05	-19.95	74	48.02	32.3	6.61	32.88	110	140	P	H
		2389.95	43.24	-10.76	54	37.17	32.3	6.61	32.84	110	140	A	H
	*	2448	107.39	-	-	101.12	32.3	6.68	32.71	110	140	P	H
	*	2448	97.58	-	-	91.31	32.3	6.68	32.71	110	140	A	H
		2484.7	63.03	-10.97	74	56.51	32.43	6.73	32.64	110	140	P	H
		2485.78	50.65	-3.35	54	44.13	32.43	6.73	32.64	110	140	A	H
		2348.22	54.05	-19.95	74	48.34	32.1	6.53	32.92	336	54	P	V
		2389.82	42.73	-11.27	54	36.66	32.3	6.61	32.84	336	54	A	V
	*	2448	107.52	-	-	101.25	32.3	6.68	32.71	336	54	P	V
	*	2448	96.78	-	-	90.51	32.3	6.68	32.71	336	54	A	V
	2485.72	61.66	-12.34	74	55.14	32.43	6.73	32.64	336	54	P	V	
	2485.84	48.8	-5.2	54	42.28	32.43	6.73	32.64	336	54	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 HE40 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 HE40 Full CH 09 2452MHz		4905	41	-33	74	59.09	34.1	9.56	61.75	300	0	P	H
		7350	43.63	-30.37	74	58.28	35.7	11.71	62.06	300	0	P	H
		4905	39.84	-34.16	74	57.93	34.1	9.56	61.75	100	0	P	V
		7350	47.73	-26.27	74	62.38	35.7	11.71	62.06	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
2.4GHz WIFI 802.11ax HE20 (LF)

Table with 14 columns: WIFI, Note, Frequency, Level, Over, Limit, Read, Antenna, Path, Preamp, Ant, Table, Peak, Pol. It contains 11 rows of test data for 2.4GHz WIFI 802.11ax HE20 LF and a Remark section at the bottom.



<Simultaneous transmission>

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full & GSM850 Link (Band Edge @ 3m)

WIFI Ant. CDD 7+16	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 11 2462MHz	*	2462	110.26	-	-	103.9	32.37	6.7	32.71	100	266	P	H
	*	2464	100.24	-	-	93.88	32.37	6.7	32.71	100	266	A	H
		2483.98	64.68	-9.32	74	58.16	32.43	6.73	32.64	100	266	P	H
		2483.5	50.97	-3.03	54	44.45	32.43	6.73	32.64	100	266	A	H
	*	2458	109.65	-	-	103.29	32.37	6.7	32.71	374	73	P	V
	*	2458	99.45	-	-	93.09	32.37	6.7	32.71	374	73	A	V
		2486.74	60.89	-13.11	74	54.37	32.43	6.73	32.64	374	73	P	V
		2485.78	46.77	-7.23	54	40.25	32.43	6.73	32.64	374	73	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 & GSM850 Link (Harmonic @ 3m)

WIFI Ant. CDD 7+16	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 11 2462MHz		4920	39.73	-34.27	74	57.18	34.1	9.58	61.13	300	0	P	H
		7380	44.18	-29.82	74	57.63	35.7	11.71	60.86	300	0	P	H
		4920	40.01	-33.99	74	57.46	34.1	9.58	61.13	100	0	P	V
		7380	43.31	-30.69	74	56.76	35.7	11.71	60.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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.	
CDD 7+16		(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:

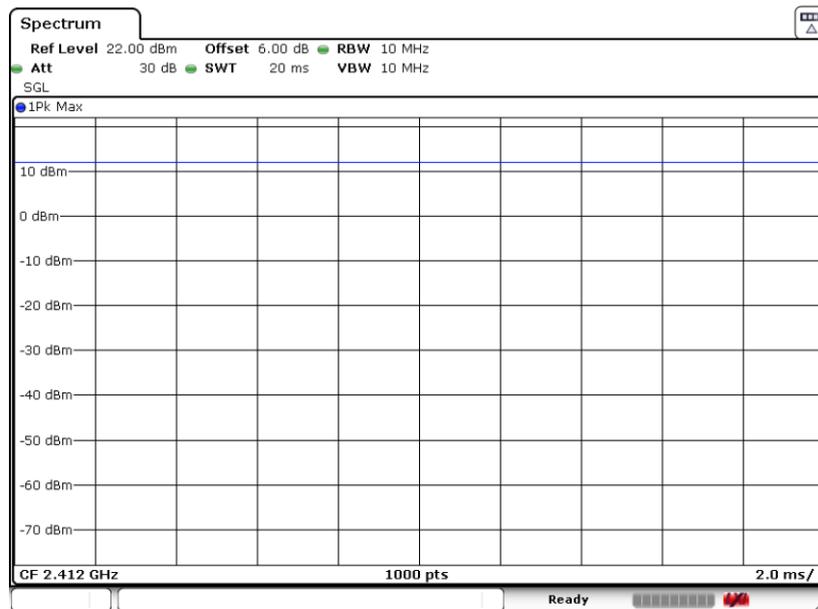
1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

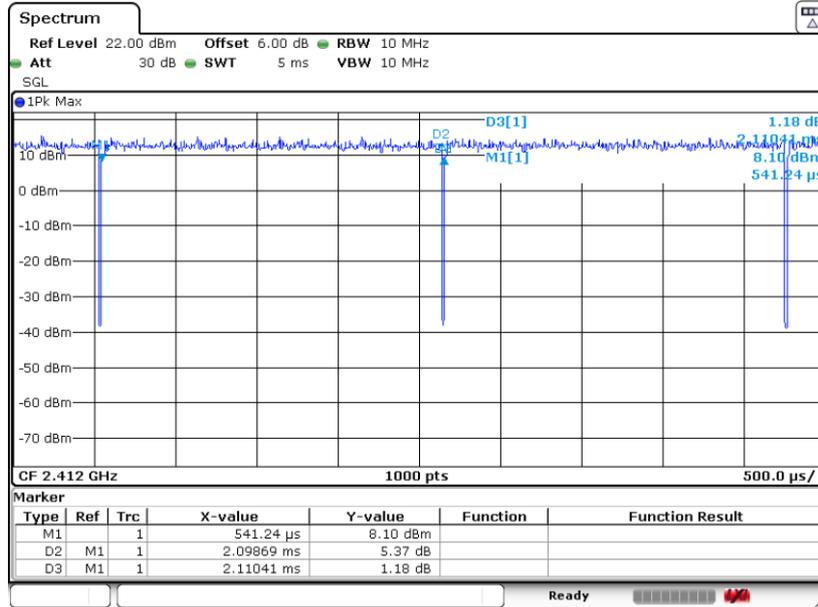
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
16+7	802.11b	100	-	-	10Hz
16+7	802.11g	99.44	-	-	10Hz
16+7	802.11ax HE20	100	-	-	10Hz
16+7	802.11ax HE40	100	-	-	10Hz

802.11b

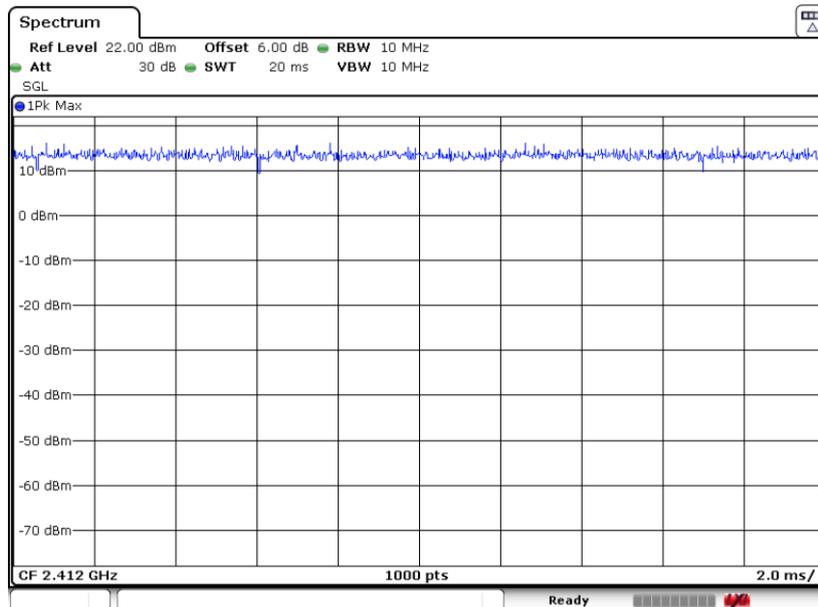




802.11g



802.11ax HE20





802.11ax HE40

