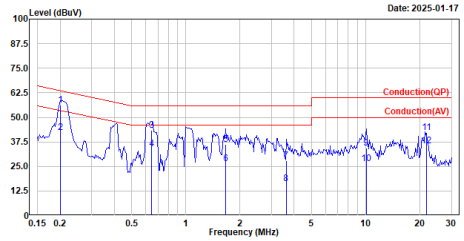
Appendix A. Test Result of AC Power Line Conducted Emission

Model No.: TAP-M310R-NPS-1P1R-US-CT-T

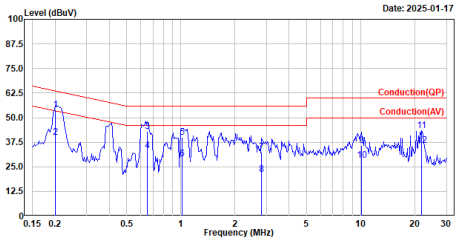
Site :HY-SR01
Condition :Line
Mode :TX_ax80_5775MHz
test by :Michael



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.201	56.17	63.58	-7.41	46.53	9.64	QP
2	0.201	42.16	53.58	-11.42	32.52	9.64	Average
3	0.646	43.40	56.00	-12.60	33.73	9.67	QP
4	0.646	33.93	46.00	-12.07	24.26	9.67	Average
5	1.665	36.05	56.00	-19.95	26.30	9.75	QP
6	1.665	26.25	46.00	-19.75	16.50	9.75	Average
7	3.608	28.10	56.00	-27.90	18.13	9.97	QP
8	3.608	16.17	46.00	-29.83	6.20	9.97	Average
9	10.050	34.32	60.00	-25.68	24.08	10.24	QP
10	10.050	26.28	50.00	-23.72	16.04	10.24	Average
11	21.677	42.43	60.00	-17.57	32.56	9.87	QP
12	21.677	35.52	50.00	-14.48	25.65	9.87	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Site :HY-SR01
Condition :Neutral
Mode :TX_ax80_5775MHz
test by :Michael

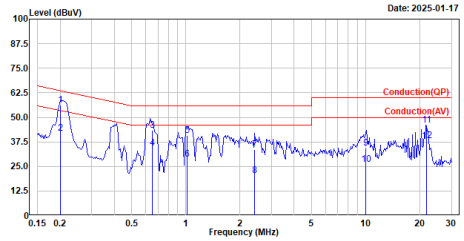


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.201	53.93	63.55	-9.62	44.31	9.62	QP
2	0.201	40.18	53.55	-13.37	30.56	9.62	Average
3	0.653	43.07	56.00	-12.93	33.42	9.65	QP
4	0.653	33.34	46.00	-12.66	23.69	9.65	Average
5	1.019	40.15	56.00	-15.85	30.48	9.67	QP
6	1.019	29.15	46.00	-16.85	19.48	9.67	Average
7	2.811	32.50	56.00	-23.50	22.64	9.86	QP
8	2.811	21.20	46.00	-24.80	11.34	9.86	Average
9	10.061	35.78	60.00	-24.22	25.56	10.22	QP
10	10.061	28.38	50.00	-21.62	18.16	10.22	Average
11	21.682	43.40	60.00	-16.60	33.42	9.98	QP
12	21.682	35.93	50.00	-14.07	25.95	9.98	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Model No.: TAP-M310R-NPS-1R-US-CT-T

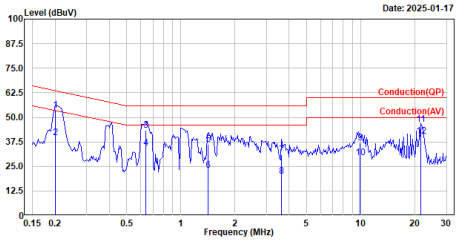
Site :HY-SR01
Condition :Line
Mode :TX_ax80_5775MHz
test by :Michael



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.200	56.04	63.59	-7.55	46.40	9.64	QP
2	0.200	41.76	53.59	-11.83	32.12	9.64	Average
3	0.650	43.33	56.00	-12.67	33.66	9.67	QP
4	0.650	34.28	46.00	-11.72	24.61	9.67	Average
5	1.018	40.80	56.00	-15.20	31.11	9.69	QP
6	1.018	28.57	46.00	-17.43	18.88	9.69	Average
7	2.422	33.61	56.00	-22.39	23.78	9.83	QP
8	2.422	20.28	46.00	-25.72	10.45	9.83	Average
9	10.034	34.17	60.00	-25.83	23.93	10.24	QP
10	10.034	26.05	50.00	-23.95	15.81	10.24	Average
11	21.692	46.00	60.00	-14.00	36.13	9.87	QP
12	21.692	38.19	50.00	-11.81	28.32	9.87	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Site :HY-SR01
Condition :Neutral
Mode :TX_ax80_5775MHz
test by :Michael



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.201	53.65	63.57	-9.92	44.03	9.62	QP
2	0.201	39.66	53.57	-13.91	30.04	9.62	Average
3	0.638	43.56	56.00	-12.44	33.91	9.65	QP
4	0.638	34.26	46.00	-11.74	24.61	9.65	Average
5	1.416	36.22	56.00	-19.78	26.51	9.71	QP
6	1.416	23.06	46.00	-22.94	13.35	9.71	Average
7	3.622	30.86	56.00	-25.14	20.90	9.96	QP
8	3.622	19.97	46.00	-26.03	10.01	9.96	Average
9	9.882	37.09	60.00	-22.91	26.86	10.23	QP
10	9.882	29.50	50.00	-20.50	19.27	10.23	Average
11	21.584	46.25	60.00	-13.75	36.27	9.98	QP
12	21.584	40.43	50.00	-9.57	30.45	9.98	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Appendix B. Test Result of Emission Bandwidth

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth & 26dB Bandwidth	
802.11a (20MHz)	5180	16.34	16.38	19.48	19.68	-	
	5220	16.38	16.38	20.12	20.56	-	
	5240	16.38	16.42	19.72	20.60	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		6dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth	6dB Bandwidth
802.11a (20MHz)	5745	16.38	16.38	16.08	16.32	-	0.5
	5785	16.38	16.38	15.64	16.32	-	0.5
	5825	16.34	16.34	15.92	16.04	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ax (20MHz)	5180	18.94	18.94	21.00	20.80	-	
	5220	18.90	18.86	21.36	21.16	-	
	5240	18.94	18.90	20.88	20.64	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		6dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth	6dB Bandwidth
802.11ax (20MHz)	5745	18.98	18.90	17.64	19.00	-	0.5
	5785	18.90	18.94	16.32	19.00	-	0.5
	5825	18.94	18.90	18.00	17.88	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ax (40MHz)	5190	37.80	37.80	40.24	40.56	-	
	5230	37.80	37.88	40.64	40.16	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		6dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth	6dB Bandwidth
802.11ax (40MHz)	5755	37.88	37.88	37.44	36.48	-	0.5
	5795	37.64	37.72	36.40	36.32	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ax (80MHz)	5210	77.36	77.20	80.80	81.12	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)		6dB Bandwidth (MHz)		Limit (MHz)	
		Ant. 1	Ant. 2	Ant. 1	Ant. 2	99% Occupied Bandwidth	6dB Bandwidth
802.11ax (80MHz)	5775	77.36	77.36	70.24	70.24	-	0.5

For 99% Occupied Bandwidth:

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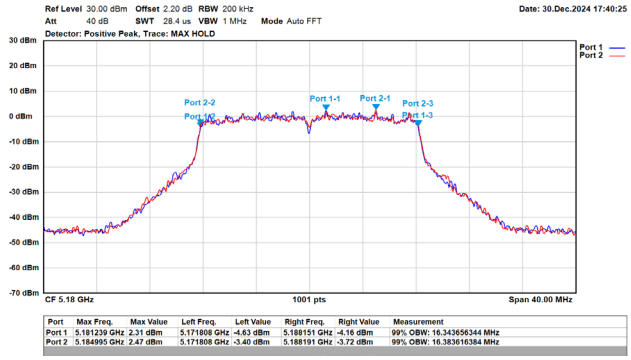	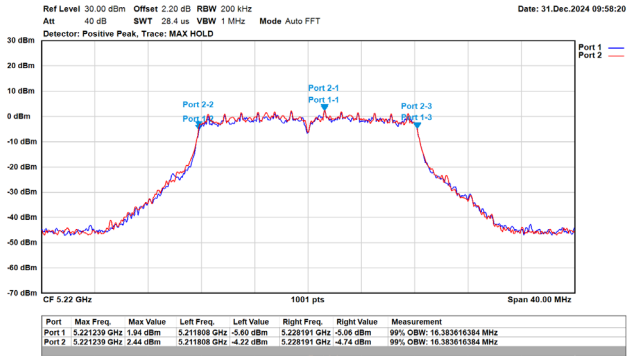
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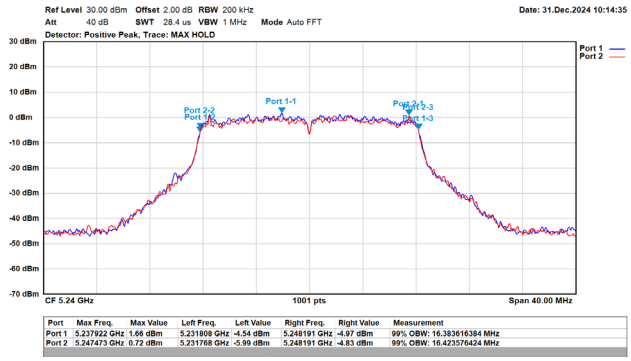	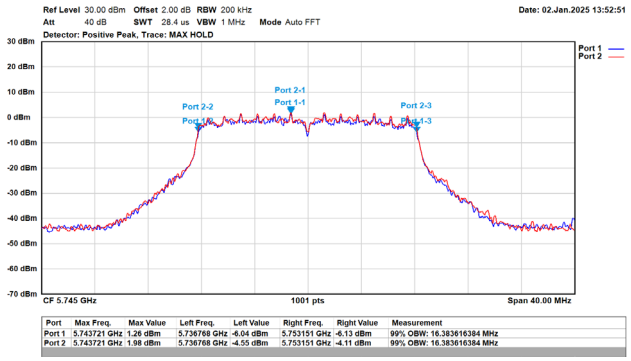
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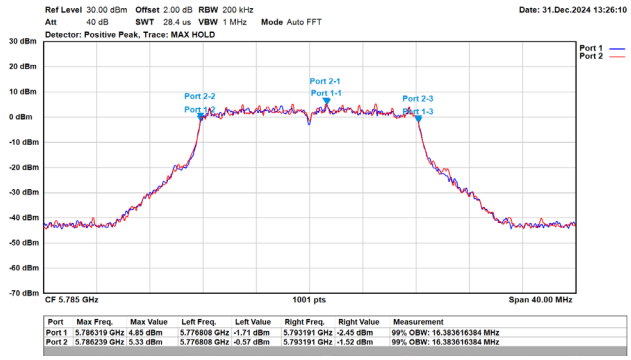
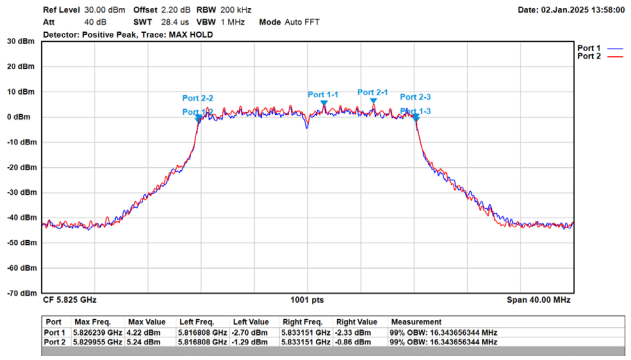
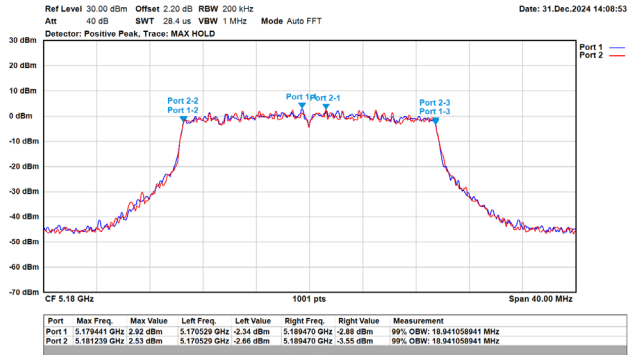
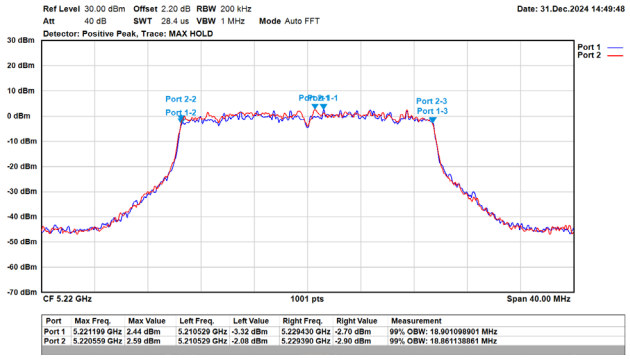
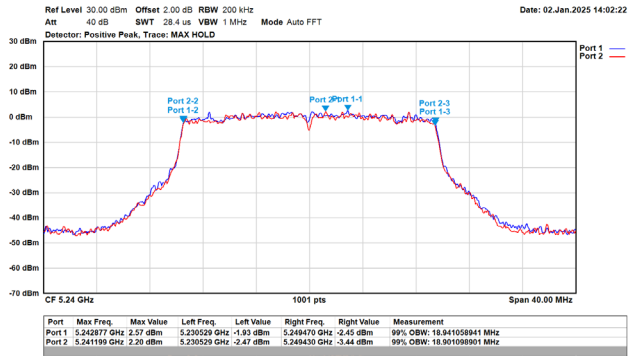
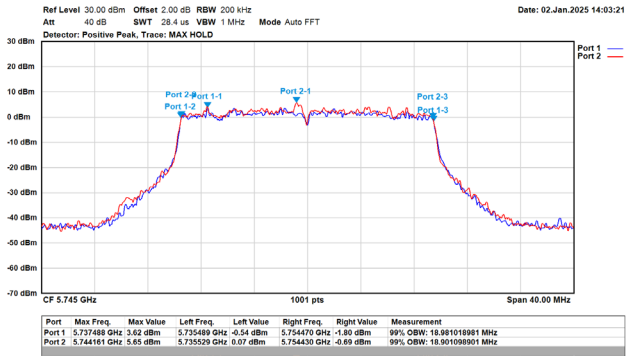
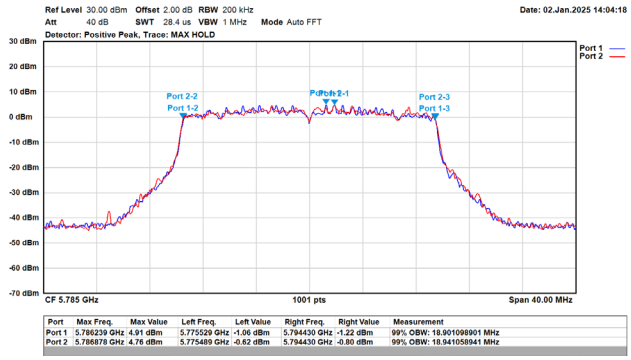
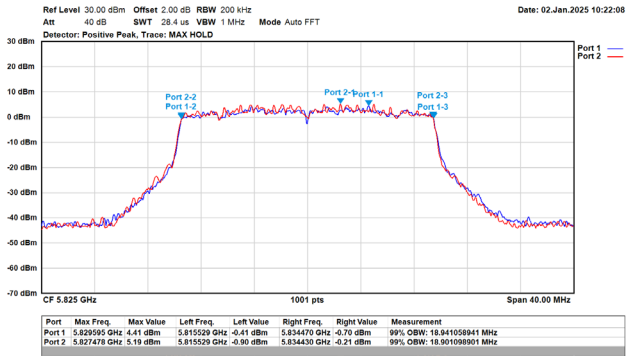
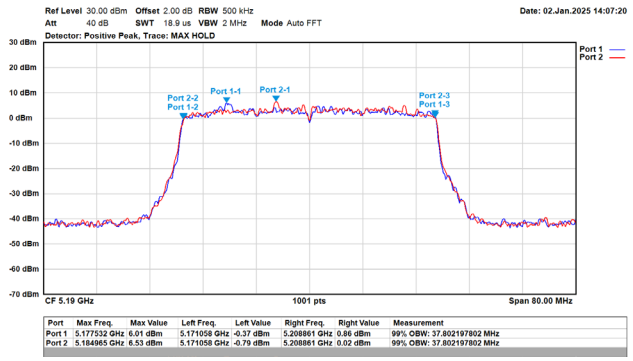
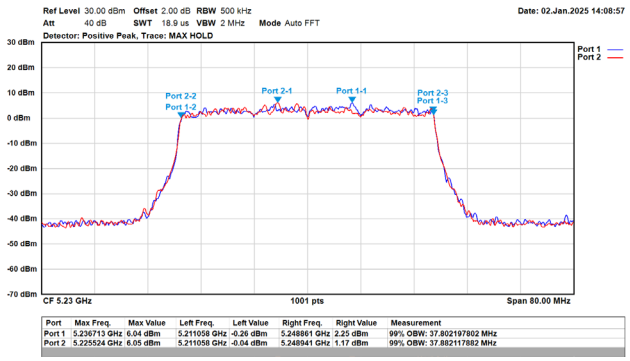
	

802.11ax/20MHz/MCS0/5180MHz/Ch36	802.11ax/20MHz/MCS0/5220MHz/Ch44
	
802.11ax/20MHz/MCS0/5240MHz/Ch48	802.11ax/20MHz/MCS0/5745MHz/Ch149
	
802.11ax/20MHz/MCS0/5785MHz/Ch157	802.11ax/20MHz/MCS0/5825MHz/Ch165
	

802.11ax/40MHz/MCS0/5190MHz/Ch38	802.11ax/40MHz/MCS0/5230MHz/Ch46
	
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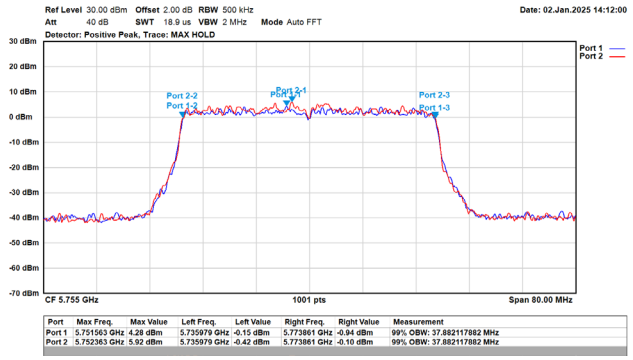	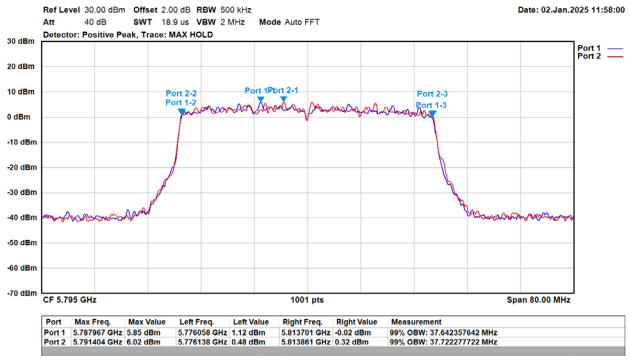
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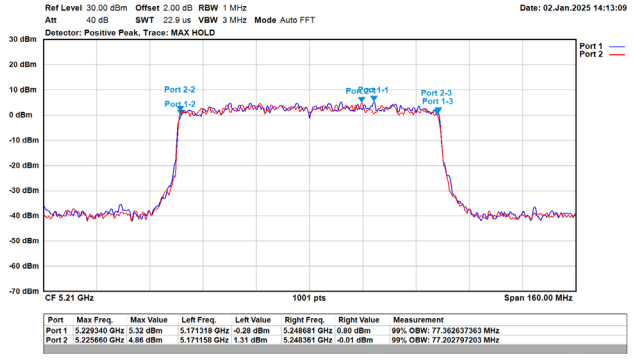	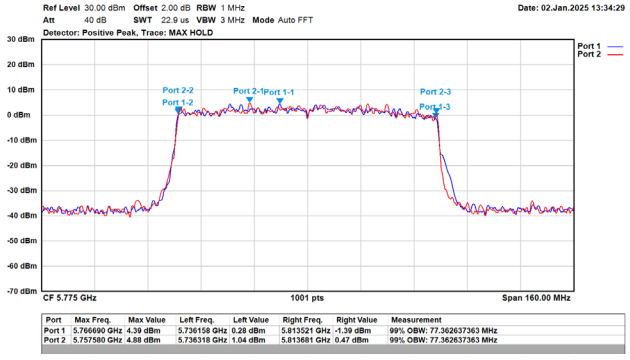

For 26dB Bandwidth:

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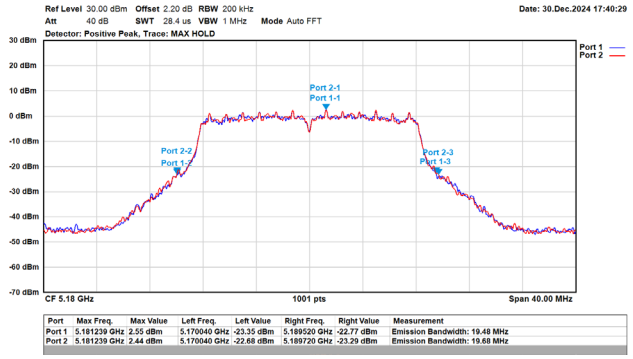	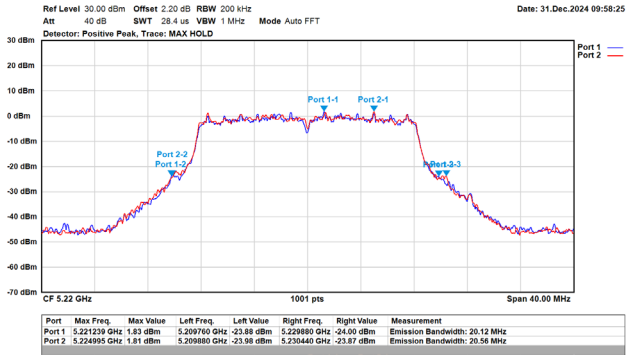
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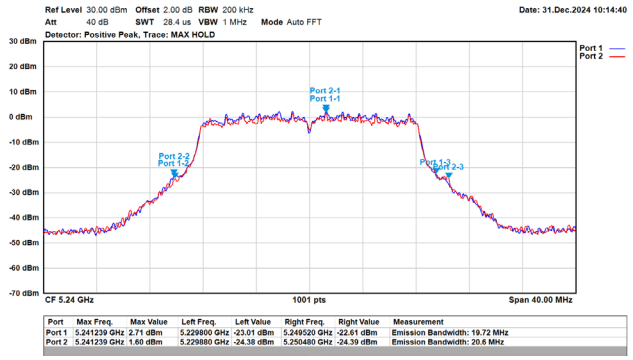
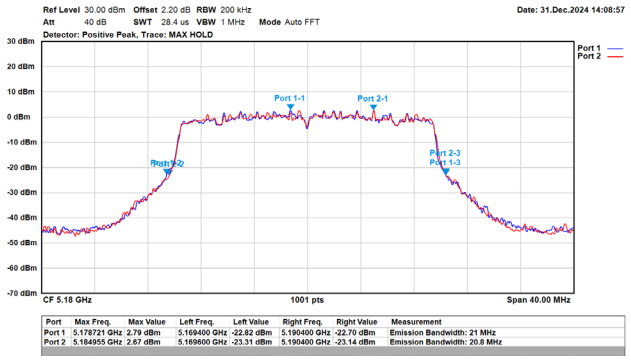
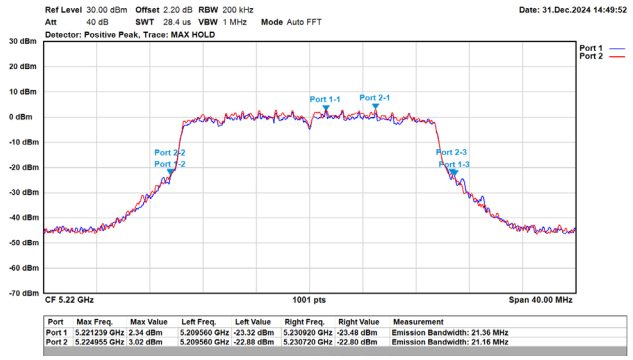
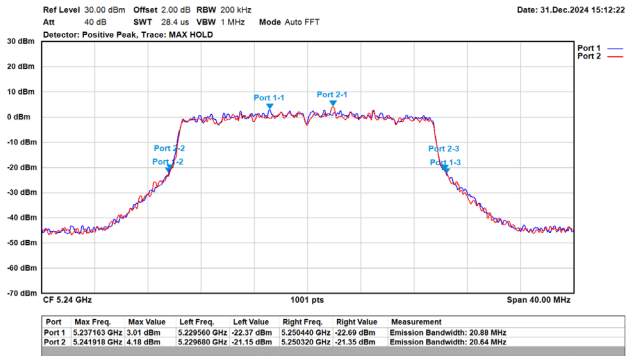
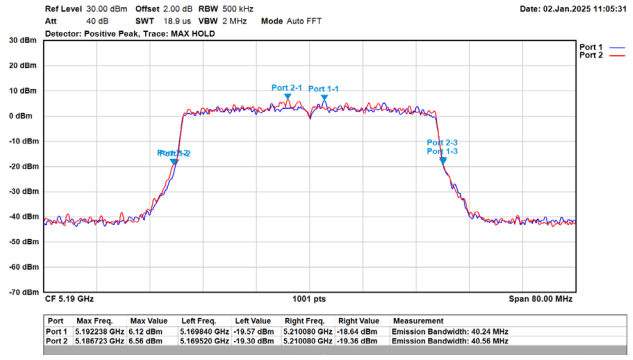
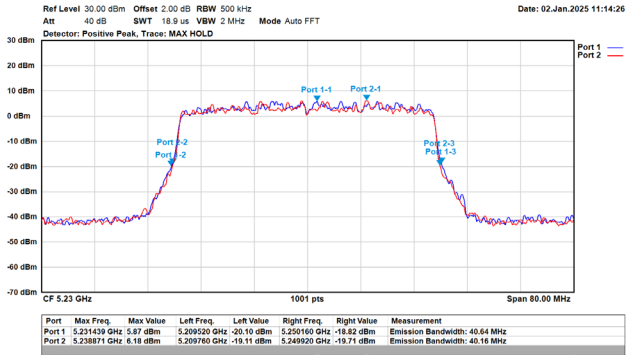
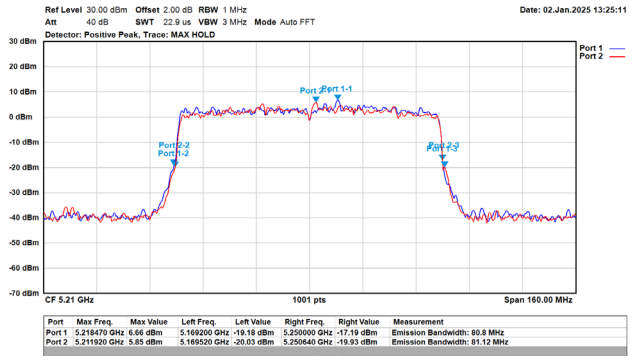
	
802.11ax/20MHz/MCS0/5220MHz/Ch44	802.11ax/20MHz/MCS0/5240MHz/Ch48
	

802.11ax/40MHz/MCS0/5190MHz/Ch38	802.11ax/40MHz/MCS0/5230MHz/Ch46
	
802.11ax/80MHz/MCS0/5210MHz/Ch42	
	

For 6dB Bandwidth:

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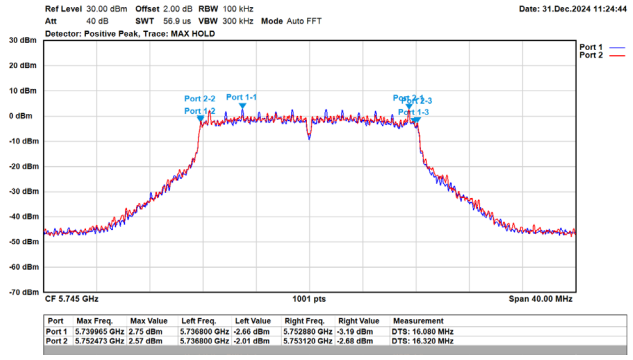
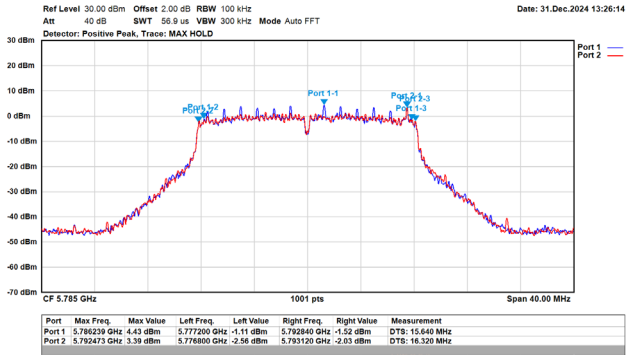
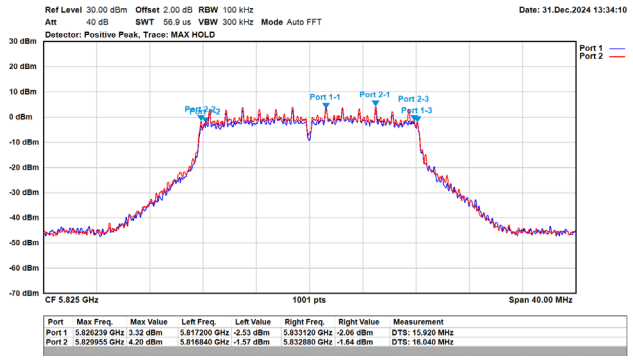
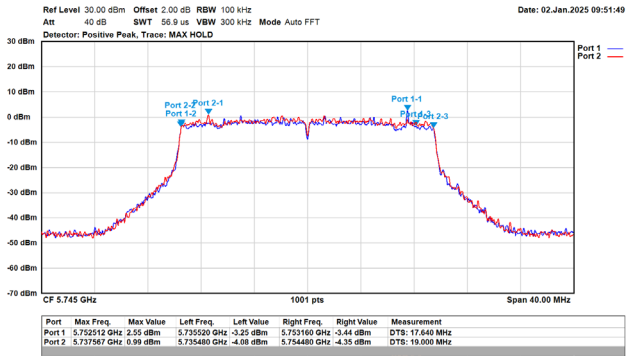
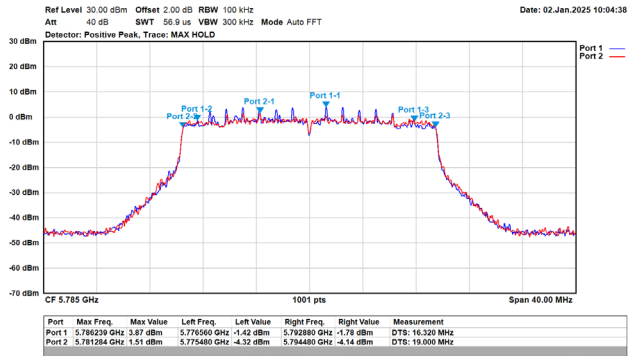
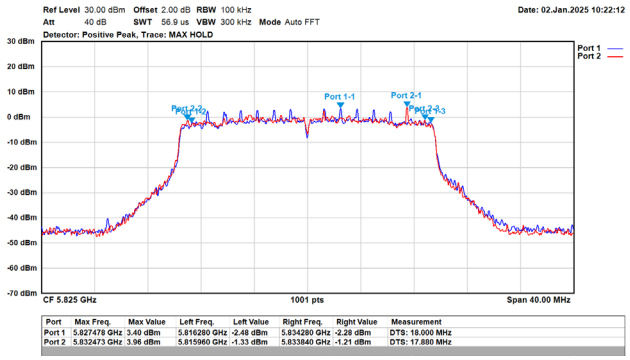
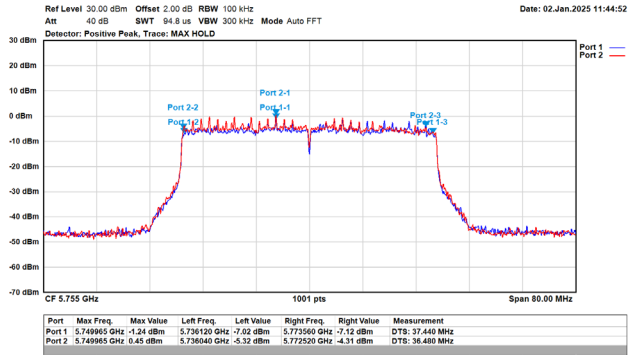
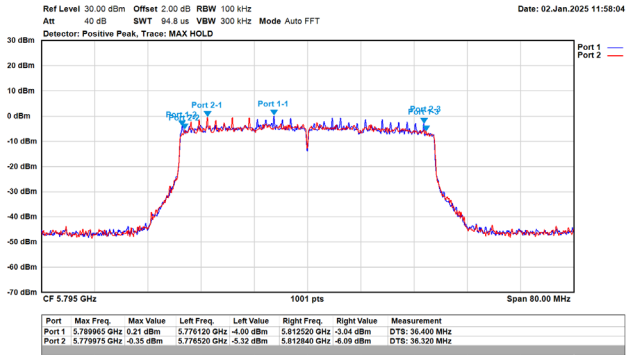
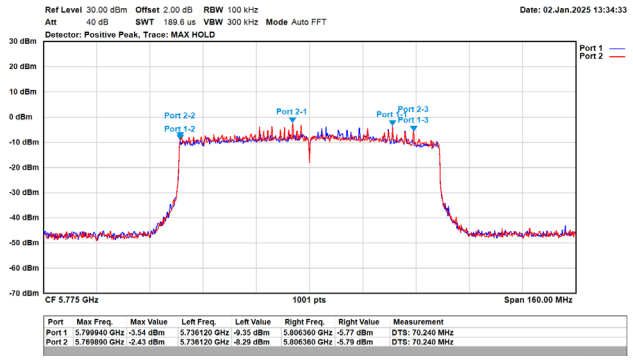
	
802.11a/20MHz/6M/5825MHz/Ch165	802.11ax/20MHz/MCS0/5745MHz/Ch149
	
802.11ax/20MHz/MCS0/5785MHz/Ch157	802.11ax/20MHz/MCS0/5825MHz/Ch165
	

802.11ax/40MHz/MCS0/5755MHz/Ch151	802.11ax/40MHz/MCS0/5795MHz/Ch159
	

802.11ax/80MHz/MCS0/5775MHz/Ch155


Appendix C. Test Result of Maximum Conducted Output Power

Master mode

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)	Result
		Ant. 1	Ant. 2	Total		
802.11a (20MHz)	5180	13.96	13.73	16.86	19.62	Pass
	5220	13.84	13.15	16.52	19.62	Pass
	5240	13.94	13.49	16.73	19.62	Pass
	5745	16.21	15.42	18.84	19.06	Pass
	5785	16.27	15.74	19.02	19.06	Pass
	5825	16.02	15.87	18.96	19.06	Pass
802.11ax (20MHz)	5180	14.26	13.29	16.81	19.62	Pass
	5220	14.79	13.70	17.29	19.62	Pass
	5240	14.23	13.59	16.93	19.62	Pass
	5745	16.28	15.33	18.84	19.06	Pass
	5785	16.44	15.35	18.94	19.06	Pass
	5825	16.15	15.52	18.86	19.06	Pass
802.11ax (40MHz)	5190	15.88	14.68	18.33	19.62	Pass
	5230	15.63	14.55	18.13	19.62	Pass
	5755	15.64	15.86	18.76	19.06	Pass
	5795	16.21	15.71	18.98	19.06	Pass
802.11ax (80MHz)	5210	15.39	14.67	18.06	19.62	Pass
	5775	15.92	15.38	18.67	19.06	Pass

Note: Total Output Power (dBm) = 10*log (Ant. 1 (mW)+ Ant. 2 (mW)).

Slave mode

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)	Result
		Ant. 1	Ant. 2	Total		
802.11a (20MHz)	5180	7.40	6.45	9.96	13.62	Pass
	5220	8.05	7.93	11.00	13.62	Pass
	5240	7.55	7.39	10.48	13.62	Pass
	5745	16.21	15.42	18.84	19.06	Pass
	5785	16.27	15.74	19.02	19.06	Pass
	5825	16.02	15.87	18.96	19.06	Pass
802.11ax (20MHz)	5180	7.23	6.05	9.69	13.62	Pass
	5220	8.64	8.68	11.67	13.62	Pass
	5240	8.66	7.43	11.10	13.62	Pass
	5745	16.28	15.33	18.84	19.06	Pass
	5785	16.44	15.35	18.94	19.06	Pass
	5825	16.15	15.52	18.86	19.06	Pass
802.11ax (40MHz)	5190	10.74	10.28	13.53	13.62	Pass
	5230	10.51	10.33	13.43	13.62	Pass
	5755	15.64	15.86	18.76	19.06	Pass
	5795	16.21	15.71	18.98	19.06	Pass
802.11ax (80MHz)	5210	10.66	10.42	13.55	13.62	Pass
	5775	15.92	15.38	18.67	19.06	Pass

Note: Total Output Power (dBm) = 10*log (Ant. 1 (mW)+ Ant. 2 (mW)).

Appendix D. Test Result of Maximum Power Spectral Density

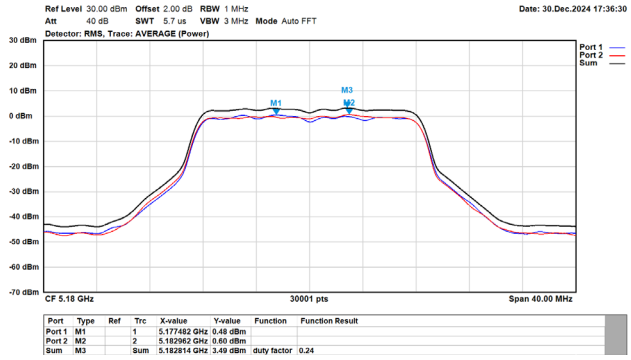
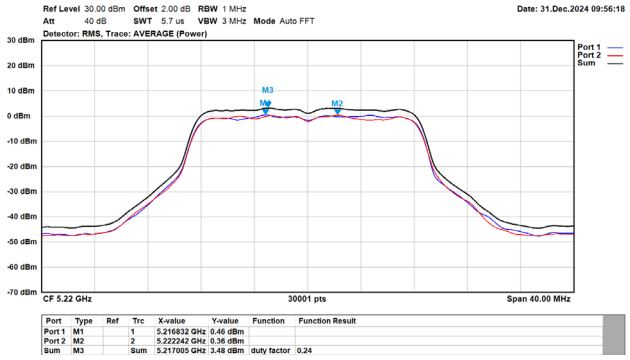
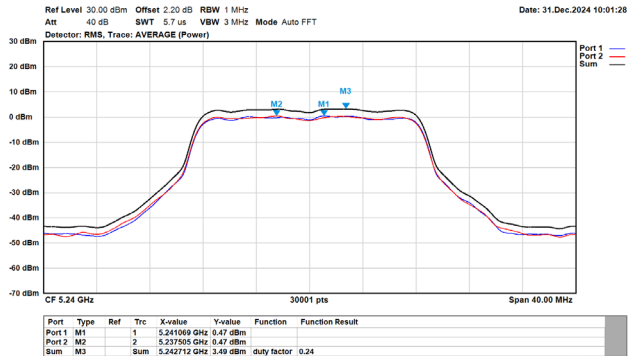
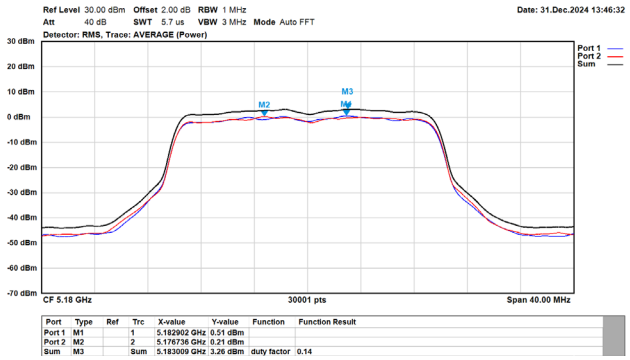
Master mode

Modulation	Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
		Ant. 1	Ant. 2	Total		
802.11a (20MHz)	5180	0.48	0.60	3.49	3.61	Pass
	5220	0.46	0.36	3.48	3.61	Pass
	5240	0.47	0.47	3.49	3.61	Pass
802.11ax (20MHz)	5180	0.51	0.21	3.26	3.61	Pass
	5220	0.95	0.14	3.33	3.61	Pass
	5240	0.67	0.17	3.45	3.61	Pass
802.11ax (40MHz)	5190	-0.75	-0.63	2.26	3.61	Pass
	5230	-0.19	-0.96	2.49	3.61	Pass
802.11ax (80MHz)	5210	-3.05	-3.27	-0.15	3.61	Pass

Note: Trace bin-by-bin of each transmits port summing can be performed maximum power density.

Modulation	Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500kHz)	Result
		Ant. 1	Ant. 2	Total		
802.11a (20MHz)	5745	-0.64	0.33	2.96	16.05	Pass
	5785	0.17	0.61	3.51	16.05	Pass
	5825	-0.51	0.46	2.97	16.05	Pass
802.11ax (20MHz)	5745	-1.04	-0.43	2.22	16.05	Pass
	5785	-0.65	-0.20	2.62	16.05	Pass
	5825	-0.54	-0.81	2.37	16.05	Pass
802.11ax (40MHz)	5755	-4.38	-3.52	-1.18	16.05	Pass
	5795	-2.92	-3.56	-0.31	16.05	Pass
802.11ax (80MHz)	5775	-6.78	-6.94	-3.83	16.05	Pass

Note: Trace bin-by-bin of each transmits port summing can be performed maximum power density.

802.11a/20MHz/6M/5180MHz/Ch36	802.11a/20MHz/6M/5220MHz/Ch44
	
802.11a/20MHz/6M/5240MHz/Ch48	802.11ax/20MHz/MCS0/5180MHz/Ch36
	
802.11ax/20MHz/MCS0/5220MHz/Ch44	802.11ax/20MHz/MCS0/5240MHz/Ch48