

Underwriters Laboratories Taiwan Co., Ltd.

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Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790224862-US-R1-V0
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FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT40)	Channel	62
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5310	75.28	18.81	94.09	N/A	N/A	PK
	@	5310	66.86	18.81	85.67	N/A	N/A	AVG
		5433.9	40.13	19.44	59.57	74	-14.43	PK
		5458.5	28.82	19.56	48.38	54	-5.62	AVG
		7080	34.37	9.43	43.8	68.2	-24.4	PK
	*	10620	31.59	18.04	49.63	74	-24.37	PK
Vertical	@	5310	89.88	18.81	108.69	N/A	N/A	PK
	@	5310	83.65	18.81	102.46	N/A	N/A	AVG
		5350.2	34.43	19.01	53.44	54	-0.56	AVG
		5350.5	42.45	19.01	61.46	74	-12.54	PK
		7080	43.77	9.43	53.2	68.2	-15	PK
	*	10620	30.9	18.04	48.94	74	-25.06	PK

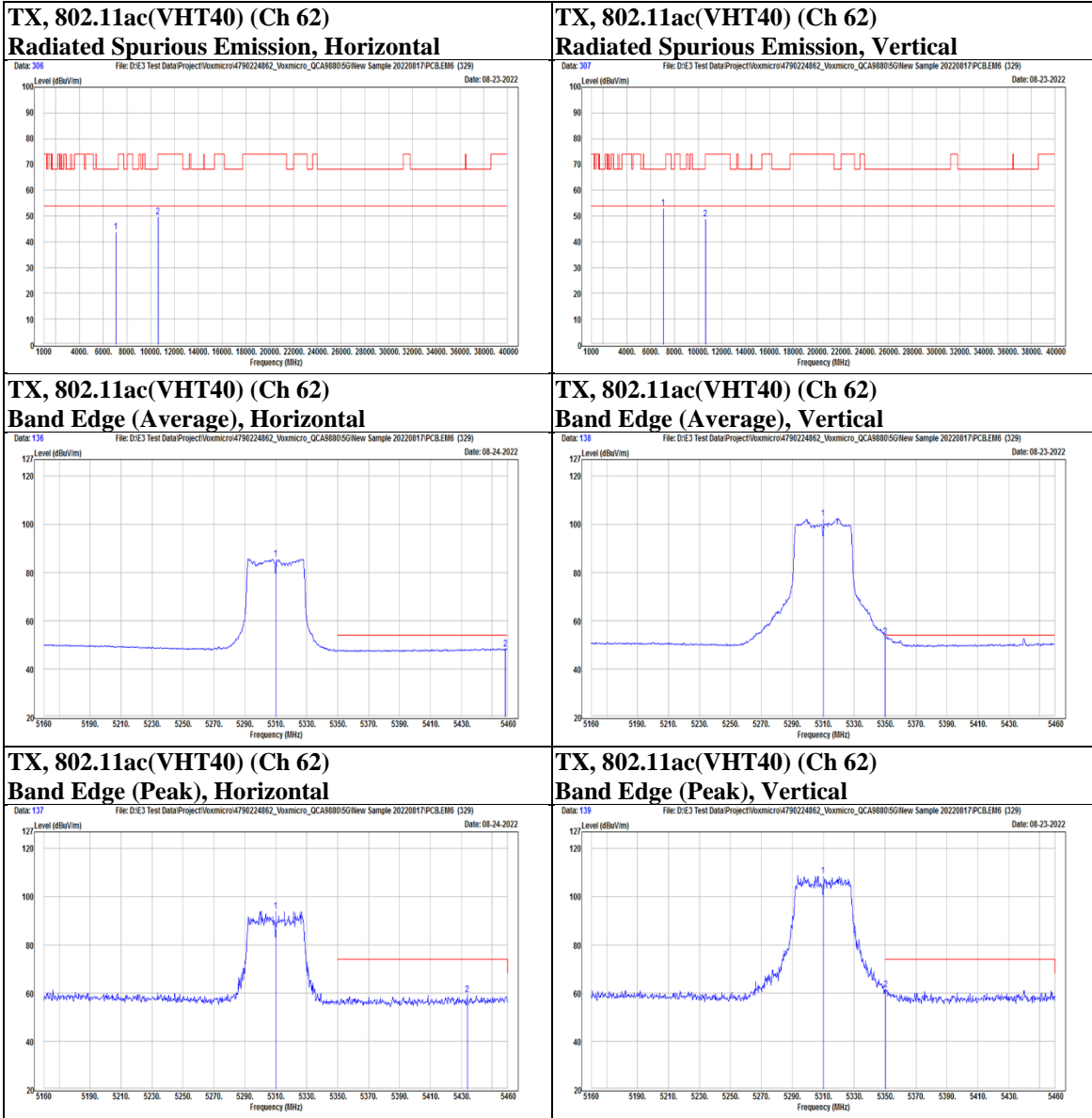
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Mode	802.11ac(VHT40)	Channel	102
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5449	40.08	19.51	59.59	74	-14.41	PK
		5459.5	28.81	19.57	48.38	54	-5.62	AVG
		5463	39.12	19.58	58.7	68.2	-9.5	PK
	@	5510	74.53	19.78	94.31	N/A	N/A	PK
	@	5510	66.89	19.78	86.67	N/A	N/A	AVG
		7346.7	34.86	10.33	45.19	74	-28.81	PK
	*	11020	31.52	18.42	49.94	74	-24.06	PK
Vertical		5439.9	32.88	19.47	52.35	54	-1.65	AVG
		5454.95	41.39	19.54	60.93	74	-13.07	PK
		5469.65	44.82	19.62	64.44	68.2	-3.76	PK
	@	5510	90.54	19.78	110.32	N/A	N/A	PK
	@	5510	83.53	19.78	103.31	N/A	N/A	AVG
		7346.7	36.01	10.33	46.34	74	-27.66	PK
	*	11020	30.47	18.42	48.89	74	-25.11	PK

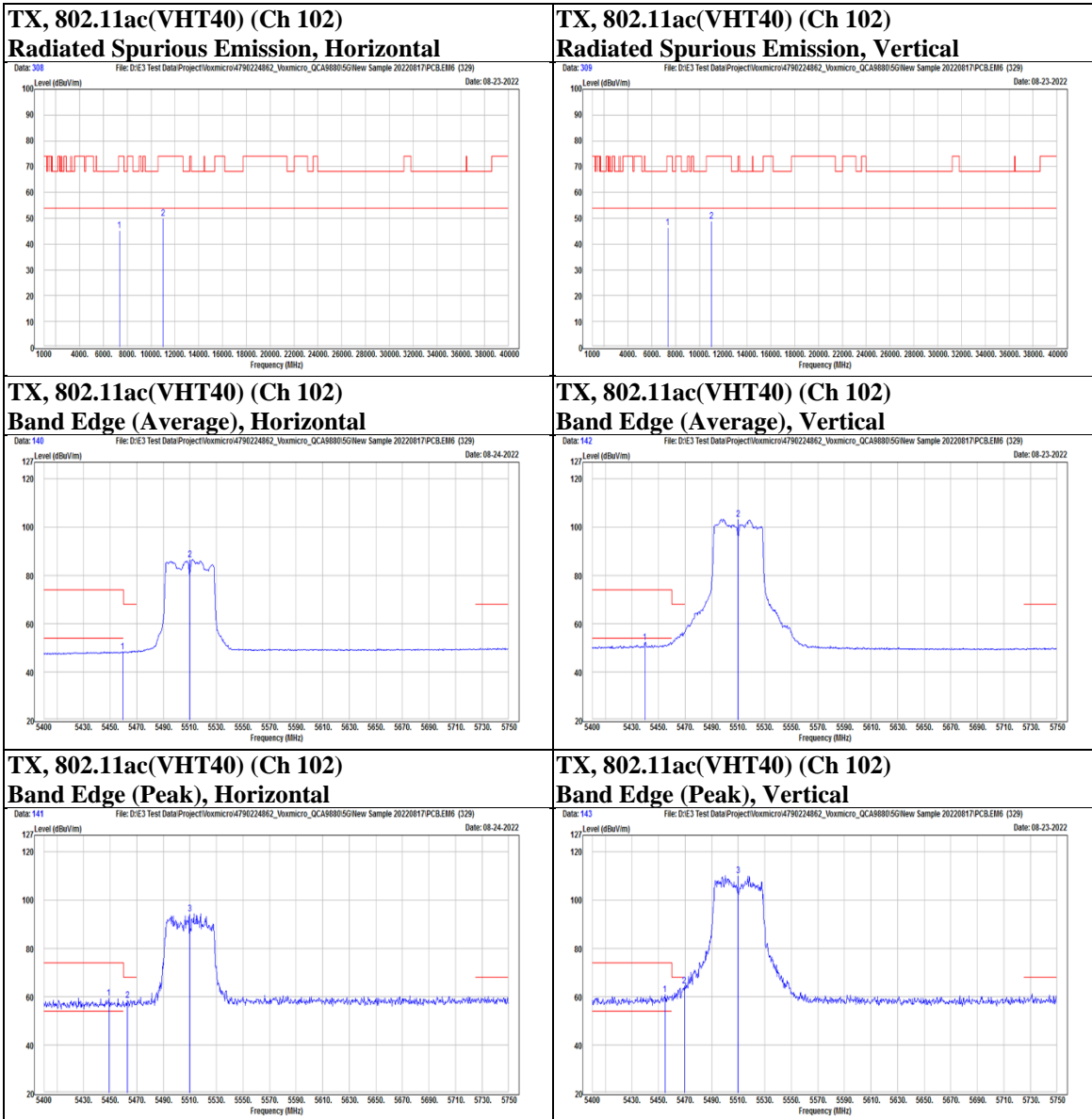
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Mode	802.11ac(VHT40)	Channel	110
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5436.05	39.97	19.45	59.42	74	-14.58	PK
		5456.7	28.88	19.55	48.43	54	-5.57	AVG
		5468.6	39.3	19.61	58.91	68.2	-9.29	PK
	@	5550	75.19	19.83	95.02	N/A	N/A	PK
	@	5550	67.66	19.83	87.49	N/A	N/A	AVG
		5743.35	41.32	20.14	61.46	68.2	-6.74	PK
		7400	34.32	10.51	44.83	74	-29.17	PK
	*	11100	31.03	18.45	49.48	74	-24.52	PK
Vertical		5440.25	34.06	19.47	53.53	54	-0.47	AVG
		5458.45	42	19.56	61.56	74	-12.44	PK
		5465.45	41.1	19.6	60.7	68.2	-7.5	PK
	@	5550	91.1	19.83	110.93	N/A	N/A	PK
	@	5550	84.37	19.83	104.2	N/A	N/A	AVG
		5735.3	40.63	20.06	60.69	68.2	-7.51	PK
		7400	36.17	10.51	46.68	74	-27.32	PK
	*	11100	30.27	18.45	48.72	74	-25.28	PK

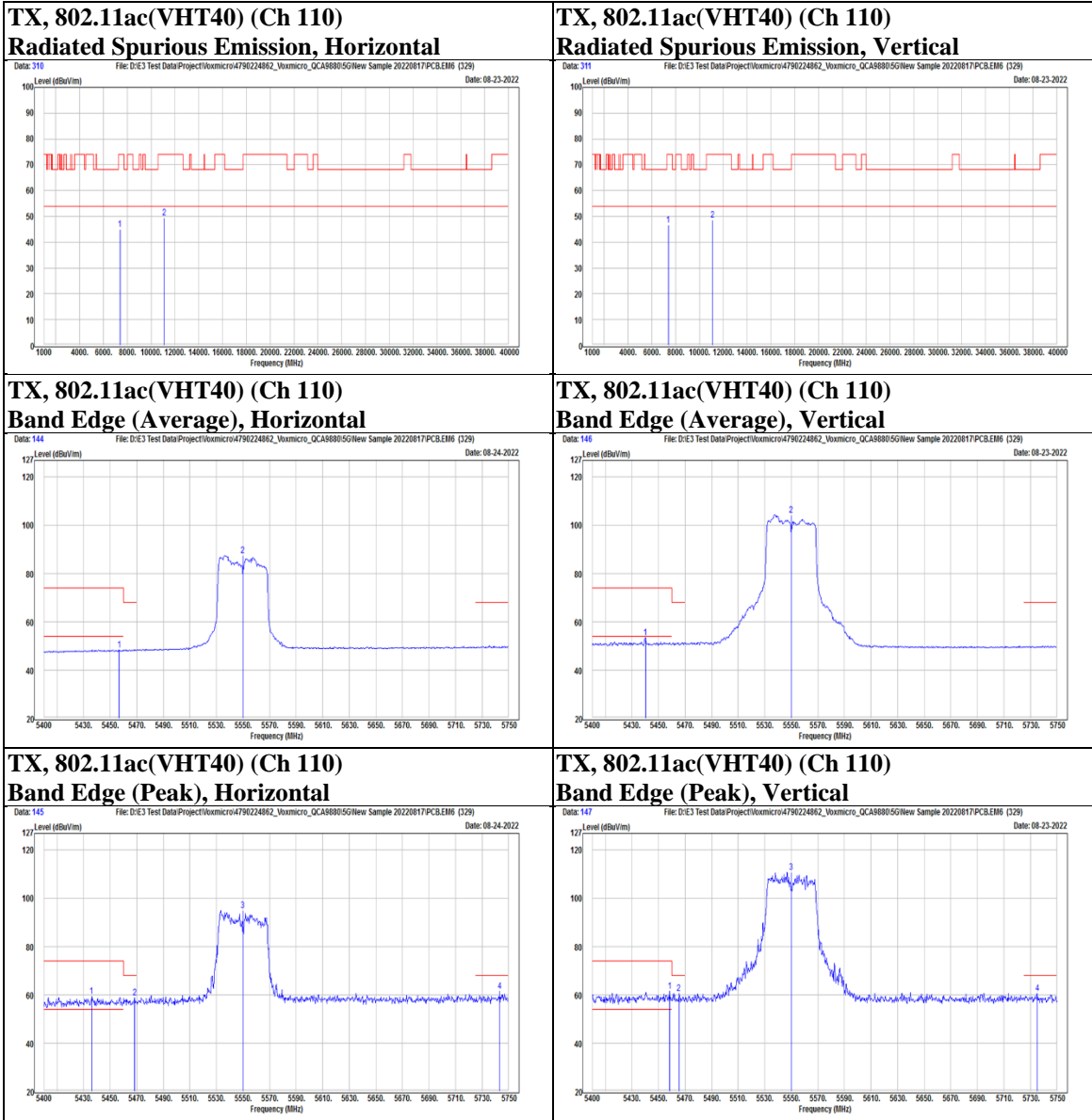
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Mode	802.11ac(VHT40)	Channel	134
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5449	28.83	19.51	48.34	54	-5.66	AVG
	@	5670	72.92	19.69	92.61	N/A	N/A	PK
	@	5670	62.69	19.69	82.38	N/A	N/A	AVG
		5746.5	40.4	20.16	60.56	68.2	-7.64	PK
		7560	34.06	10.84	44.9	74	-29.1	PK
	*	11340	31.36	18.58	49.94	74	-24.06	PK
Vertical		5439.9	33.14	19.47	52.61	54	-1.39	AVG
	@	5670	86.95	19.69	106.64	N/A	N/A	PK
	@	5670	79.04	19.69	98.73	N/A	N/A	AVG
		5737.4	40.79	20.08	60.87	68.2	-7.33	PK
		7560	33.49	10.84	44.33	74	-29.67	PK
	*	11340	30.86	18.58	49.44	74	-24.56	PK

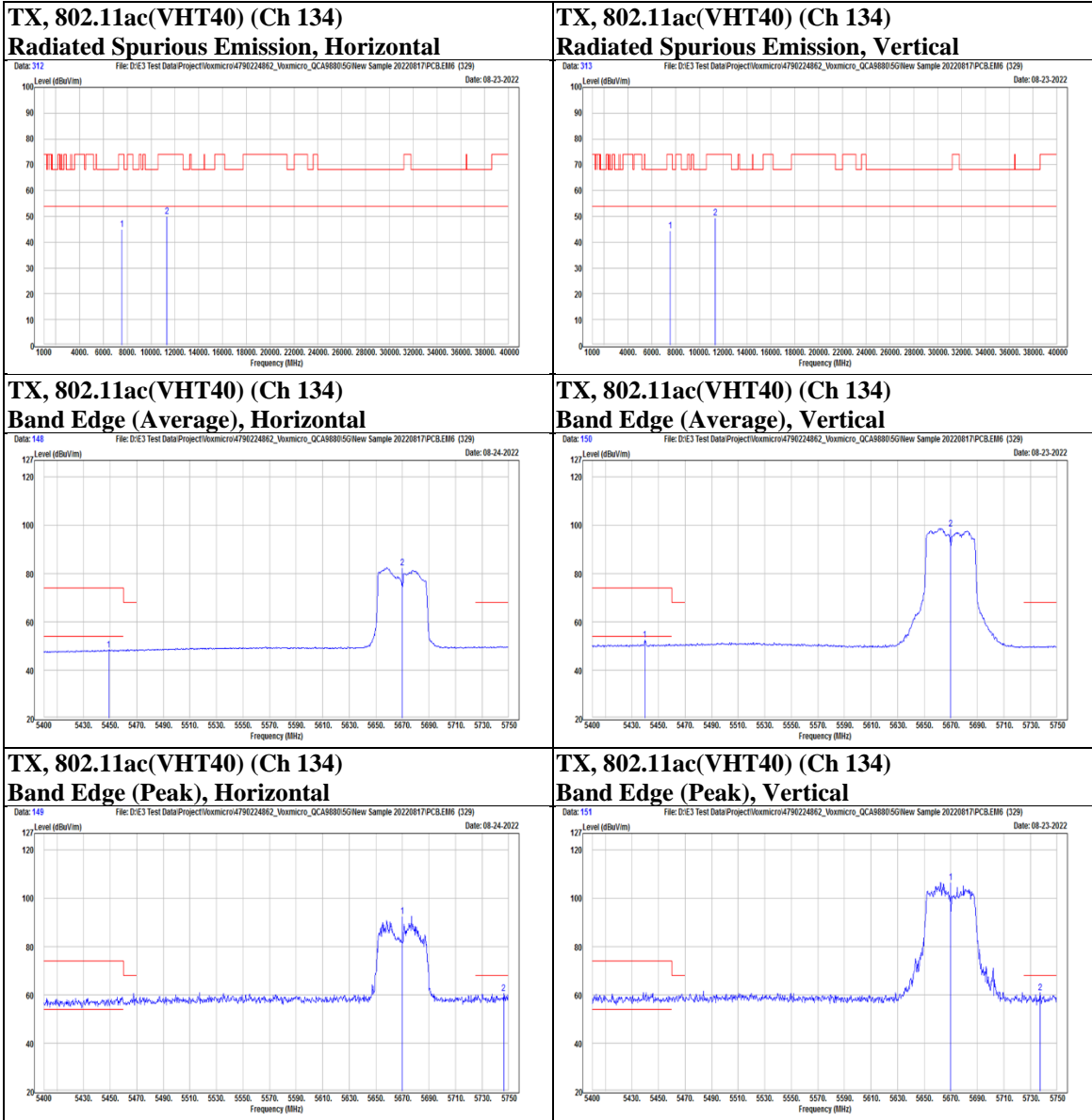
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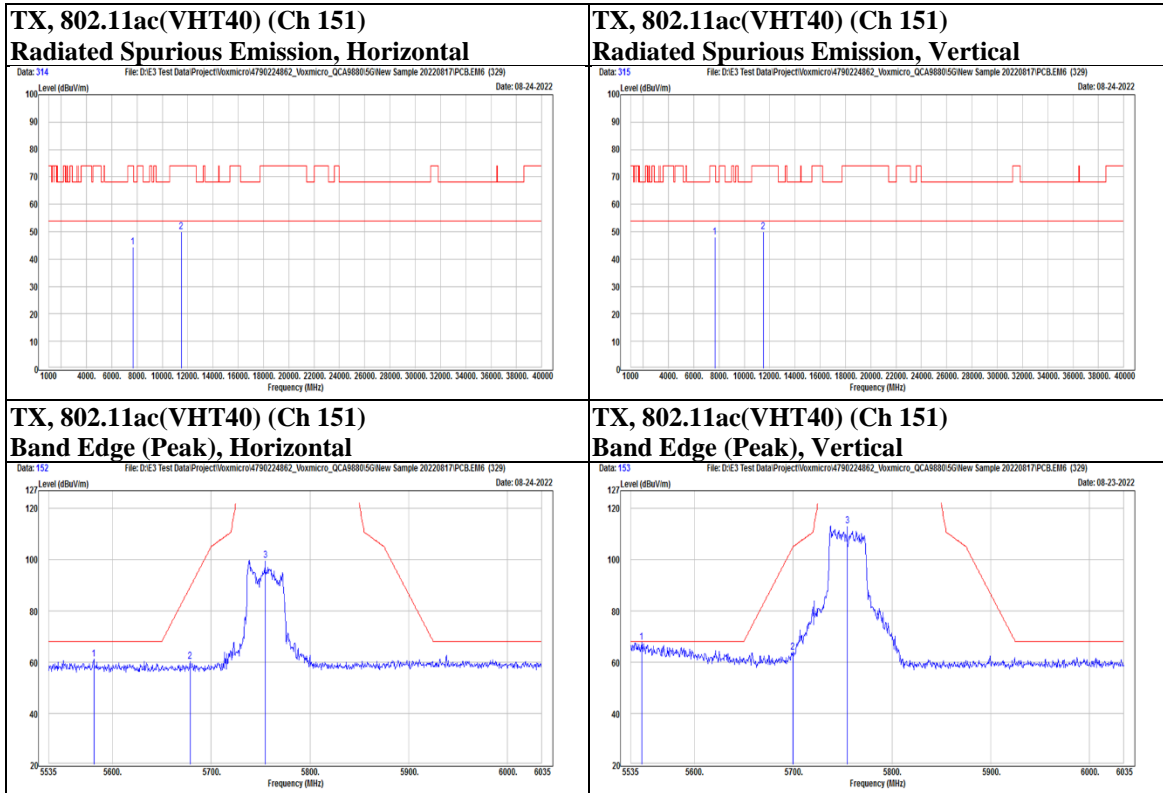
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Mode	802.11ac(VHT40)	Channel	151
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5581	41.47	19.76	61.23	68.2	-6.97	PK
		5678.5	40.67	19.71	60.38	89.33	-28.95	PK
		5755	79.48	20.22	99.7	N/A	N/A	PK
		7673.3	33.62	10.71	44.33	74	-29.67	PK
		11510	30.76	19.34	50.1	74	-23.9	PK
Vertical	@	5546.5	47.88	19.83	67.71	68.2	-0.49	PK
		5699.5	44.1	19.73	63.83	104.83	-41	PK
		5755	92.99	20.22	113.21	N/A	N/A	PK
		7673.3	37.28	10.71	47.99	74	-26.01	PK
		11510	30.57	19.34	49.91	74	-24.09	PK



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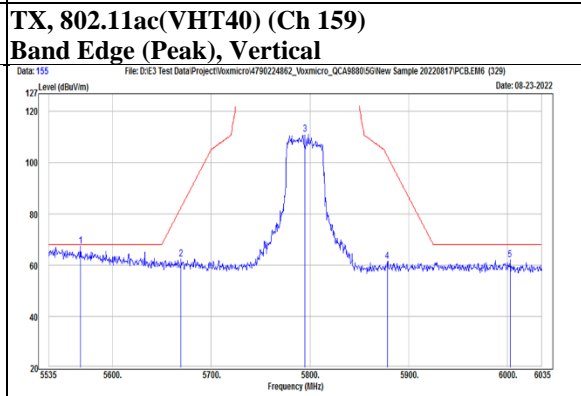
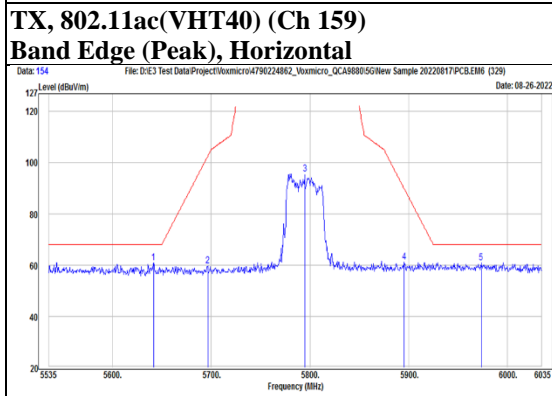
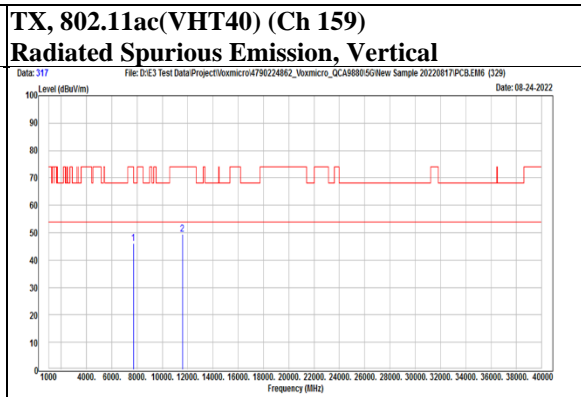
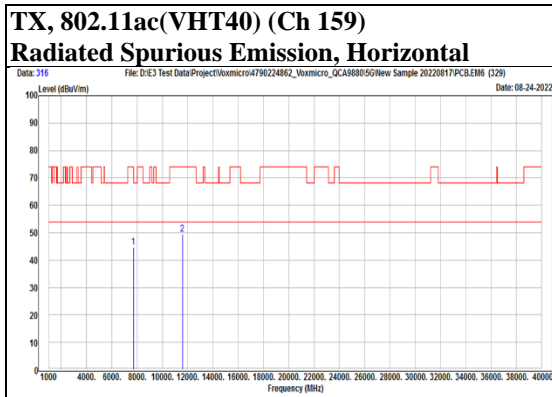
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Mode	802.11ac(VHT40)	Channel	159
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5641.5	41.32	19.67	60.99	68.2	-7.21	PK
		5696.5	40.12	19.72	59.84	102.62	-42.78	PK
	@	5795	75.22	20.52	95.74	N/A	N/A	PK
		5895.5	40.43	20.94	61.37	89.99	-28.62	PK
		5973.5	40.03	20.96	60.99	68.2	-7.21	PK
	*	7726.7	33.93	10.73	44.66	74	-29.34	PK
Vertical		11590	30.42	18.99	49.41	74	-24.59	PK
		5567.5	47.7	19.79	67.49	68.2	-0.71	PK
		5669.5	42.83	19.69	62.52	82.67	-20.15	PK
	@	5795	90.53	20.52	111.05	N/A	N/A	PK
		5878.5	40.82	20.83	61.65	102.6	-40.95	PK
		6003	41.12	20.99	62.11	68.2	-6.09	PK
	7726.7	35.32	10.73	46.05	74	-27.95	PK	
	* 11590	30.57	18.99	49.56	74	-24.44	PK	



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Mode	802.11ac(VHT80)	Channel	42
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5122.15	31.29	19.43	50.72	54	-3.28	AVG
		5141.75	42.1	19.41	61.51	74	-12.49	PK
	@	5210	68.12	19.18	87.3	N/A	N/A	PK
	@	5210	59.08	19.18	78.26	N/A	N/A	AVG
		6946.7	38.71	8.56	47.27	68.2	-20.93	PK
	*	10420	31.05	17.76	48.81	68.2	-19.39	PK
Vertical		5139.3	42.62	19.41	62.03	74	-11.97	PK
		5149.45	34.34	19.4	53.74	54	-0.26	AVG
	@	5210	81.63	19.18	100.81	N/A	N/A	PK
	@	5210	74.05	19.18	93.23	N/A	N/A	AVG
		6946.7	50.71	8.56	59.27	68.2	-8.93	PK
	*	10420	30.8	17.76	48.56	68.2	-19.64	PK

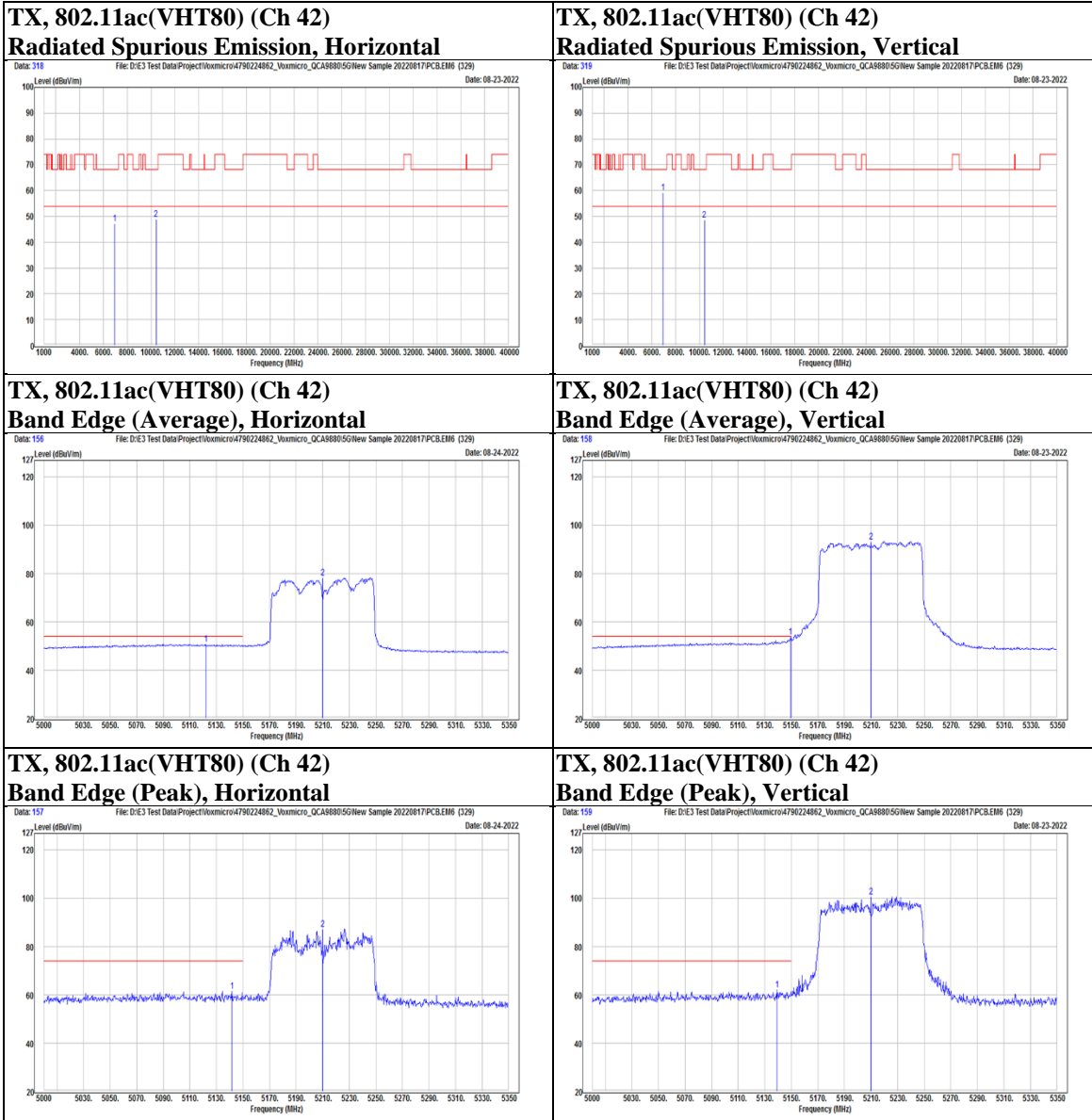
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Mode	802.11ac(VHT80)	Channel	58
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5290	69.48	18.79	88.27	N/A	N/A	PK
	@	5290	60.83	18.79	79.62	N/A	N/A	AVG
		5452.8	40.2	19.53	59.73	74	-14.27	PK
		5454.3	29.07	19.54	48.61	54	-5.39	AVG
		7053.3	38.13	9.23	47.36	68.2	-20.84	PK
	*	10580	30.42	18.04	48.46	68.2	-19.74	PK
Vertical	@	5290	83.29	18.79	102.08	N/A	N/A	PK
	@	5290	74.96	18.79	93.75	N/A	N/A	AVG
		5351.1	34.22	19.01	53.23	54	-0.77	AVG
		5352	41.86	19.03	60.89	74	-13.11	PK
		7053.3	47.71	9.23	56.94	68.2	-11.26	PK
	*	10580	30.67	18.04	48.71	68.2	-19.49	PK

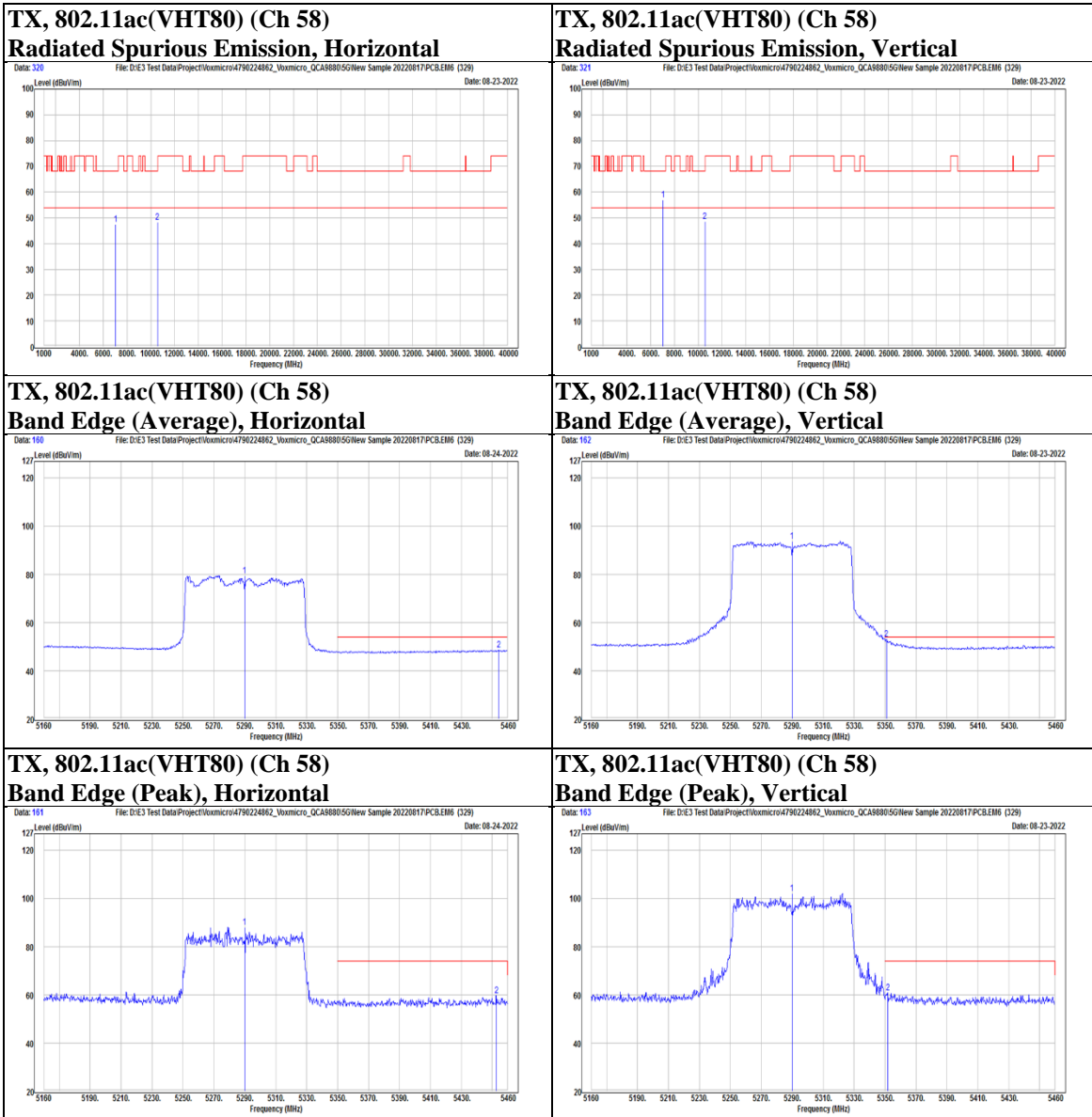
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Mode	802.11ac(VHT80)	Channel	106
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5428.35	29.15	19.41	48.56	54	-5.44	AVG
		5440.6	39.93	19.47	59.4	74	-14.6	PK
		5466.5	39.59	19.61	59.2	68.2	-9	PK
	@	5530	69.08	19.81	88.89	N/A	N/A	PK
	@	5530	60.99	19.81	80.8	N/A	N/A	AVG
		7373.3	34.11	10.42	44.53	74	-29.47	PK
	*	11060	30.43	18.44	48.87	74	-25.13	PK
Vertical		5453.55	42.97	19.53	62.5	74	-11.5	PK
		5456.7	34.36	19.55	53.91	54	-0.09	AVG
		5470	45.04	19.62	64.66	68.2	-3.54	PK
	@	5530	85.06	19.81	104.87	N/A	N/A	PK
	@	5530	77.27	19.81	97.08	N/A	N/A	AVG
		7373.3	39.72	10.42	50.14	74	-23.86	PK
	*	11060	31.29	18.44	49.73	74	-24.27	PK

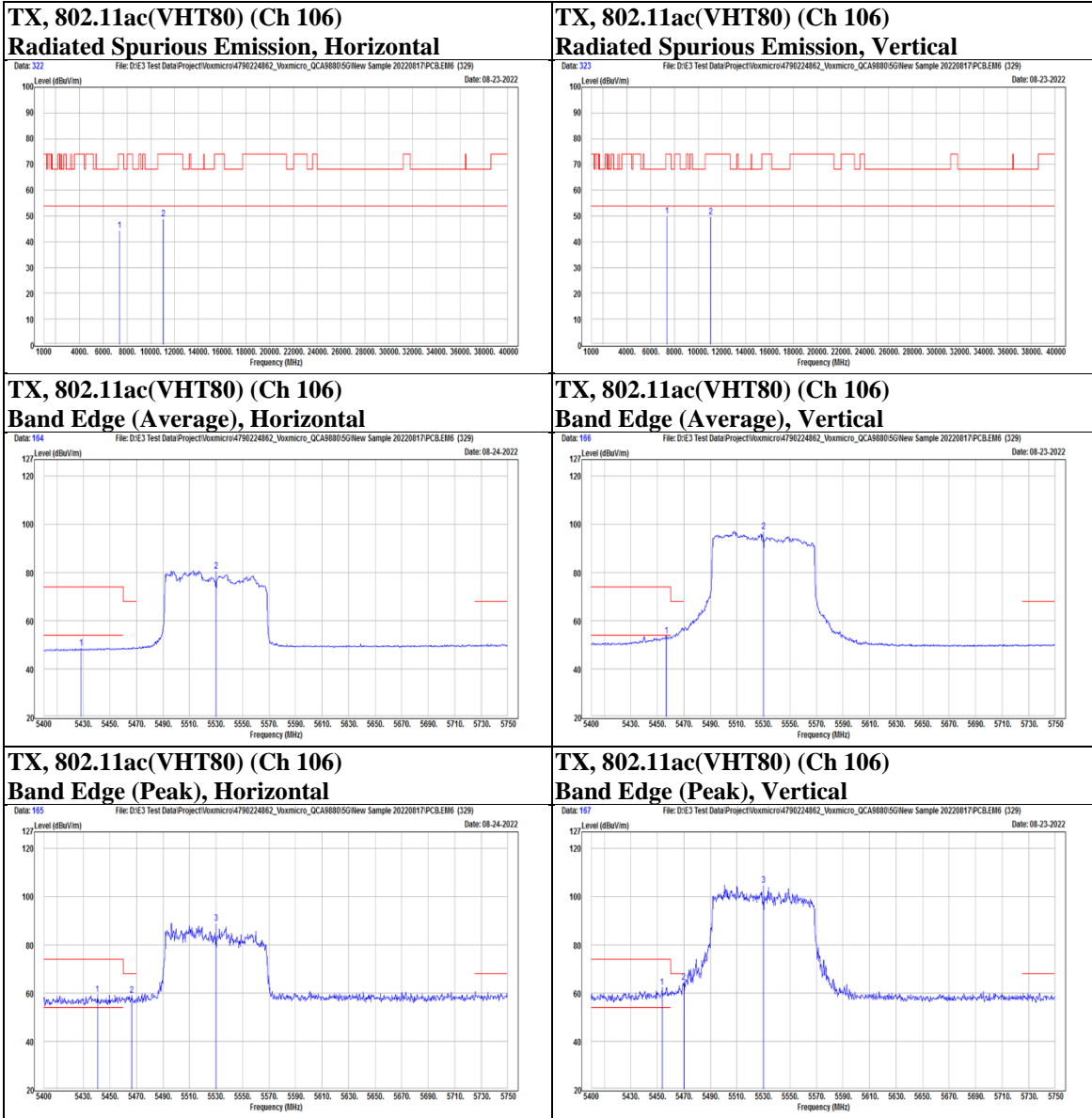
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Mode	802.11ac(VHT80)	Channel	122
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5411.9	39.6	19.32	58.92	74	-15.08	PK
		5459.85	28.99	19.57	48.56	54	-5.44	AVG
		5468.95	39.27	19.62	58.89	68.2	-9.31	PK
	@	5610	70.28	19.69	89.97	N/A	N/A	PK
	@	5610	61.52	19.69	81.21	N/A	N/A	AVG
		5738.8	40.35	20.09	60.44	68.2	-7.76	PK
		7480	33.77	10.7	44.47	74	-29.53	PK
	*	11220	31.01	18.47	49.48	74	-24.52	PK
Vertical		5425.9	41.57	19.39	60.96	74	-13.04	PK
		5439.9	34.13	19.47	53.6	54	-0.4	AVG
		5460.2	42.52	19.57	62.09	68.2	-6.11	PK
	@	5610	83.72	19.69	103.41	N/A	N/A	PK
	@	5610	75.72	19.69	95.41	N/A	N/A	AVG
		5731.45	40.86	20.02	60.88	68.2	-7.32	PK
		7480	33.79	10.7	44.49	74	-29.51	PK
	*	11220	29.98	18.47	48.45	74	-25.55	PK

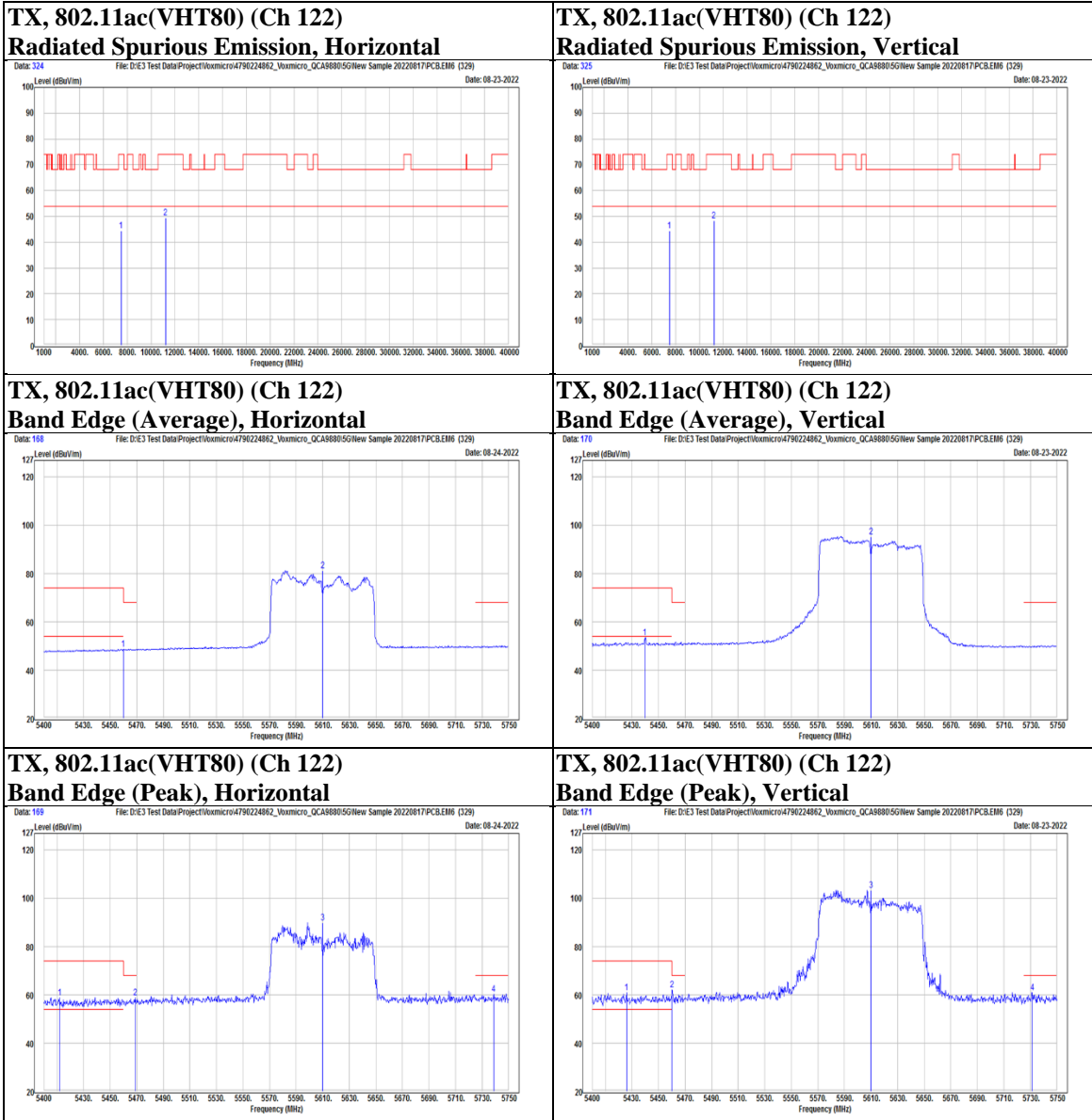
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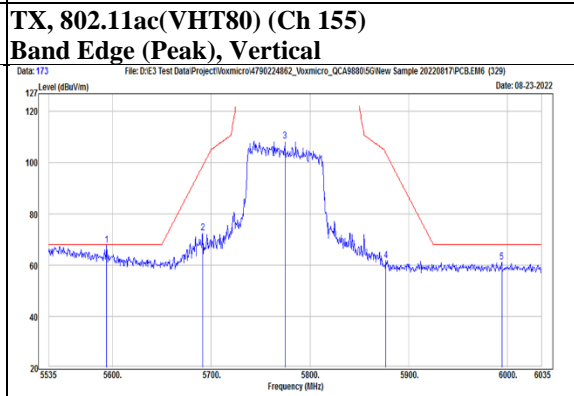
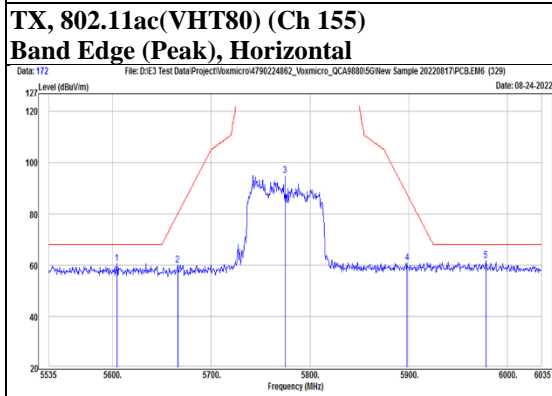
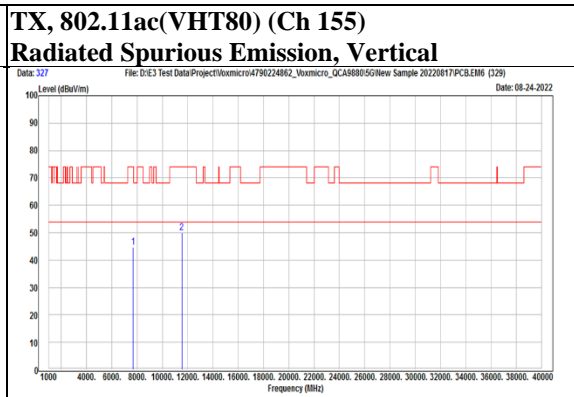
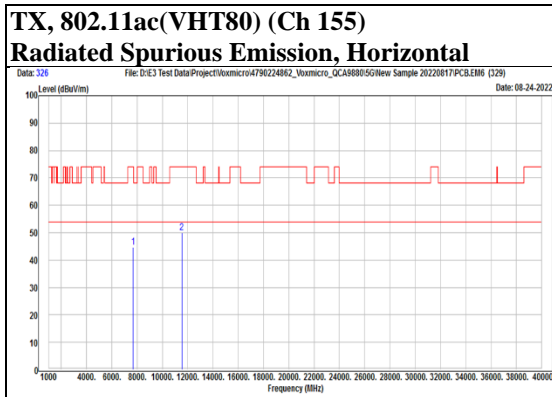
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Mode	802.11ac(VHT80)	Channel	155
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5604.5	40.93	19.7	60.63	68.2	-7.57	PK
		5666	40.46	19.69	60.15	80.08	-19.93	PK
	@	5775	74.73	20.37	95.1	N/A	N/A	PK
		5898.5	40.04	20.96	61	87.77	-26.77	PK
		5978.5	40.86	20.97	61.83	68.2	-6.37	PK
		7700	34.03	10.64	44.67	74	-29.33	PK
	*	11550	30.72	19.16	49.88	74	-24.12	PK
Vertical		5594	48.06	19.72	67.78	68.2	-0.42	PK
		5691.5	52.88	19.72	72.6	98.93	-26.33	PK
	@	5775	88.05	20.37	108.42	N/A	N/A	PK
		5877	40.96	20.81	61.77	103.71	-41.94	PK
		5994.5	40.3	20.99	61.29	68.2	-6.91	PK
		7700	34.16	10.64	44.8	74	-29.2	PK
	*	11550	30.81	19.16	49.97	74	-24.03	PK



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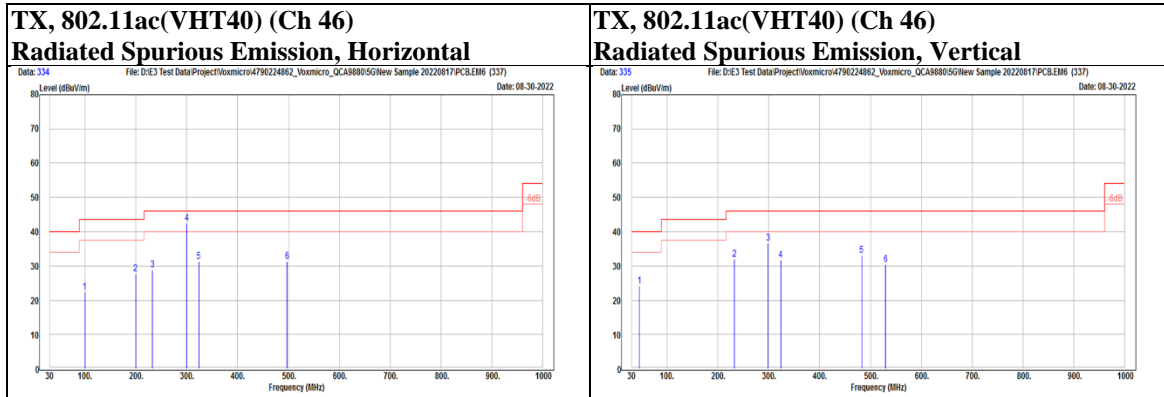
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Below 1 GHz

Mode	802.11ac(VHT40)	Channel	46
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		99.84	38.77	-16.37	22.4	43.5	-21.1	PK
		199.75	41.87	-14.23	27.64	43.5	-15.86	PK
		232.73	42.21	-13.37	28.84	46	-17.16	PK
		299.66	53.22	-10.81	42.41	46	-3.59	PK
		323.91	41.4	-10.07	31.33	46	-14.67	PK
		497.54	36.67	-5.43	31.24	46	-14.76	PK
Vertical		45.52	36.23	-12	24.23	40	-15.77	PK
		232.73	45.28	-13.37	31.91	46	-14.09	PK
		298.69	47.52	-10.84	36.68	46	-9.32	PK
		323.91	41.84	-10.07	31.77	46	-14.23	PK
		482.99	38.93	-5.81	33.12	46	-12.88	PK
		529.55	35.13	-4.7	30.43	46	-15.57	PK



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9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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9.8. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dBuV) - Limit value (dBuV).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

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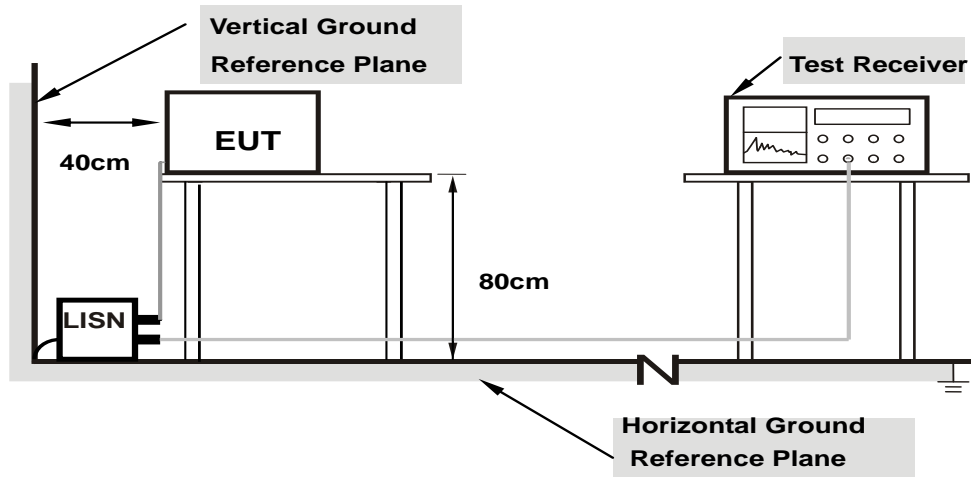
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Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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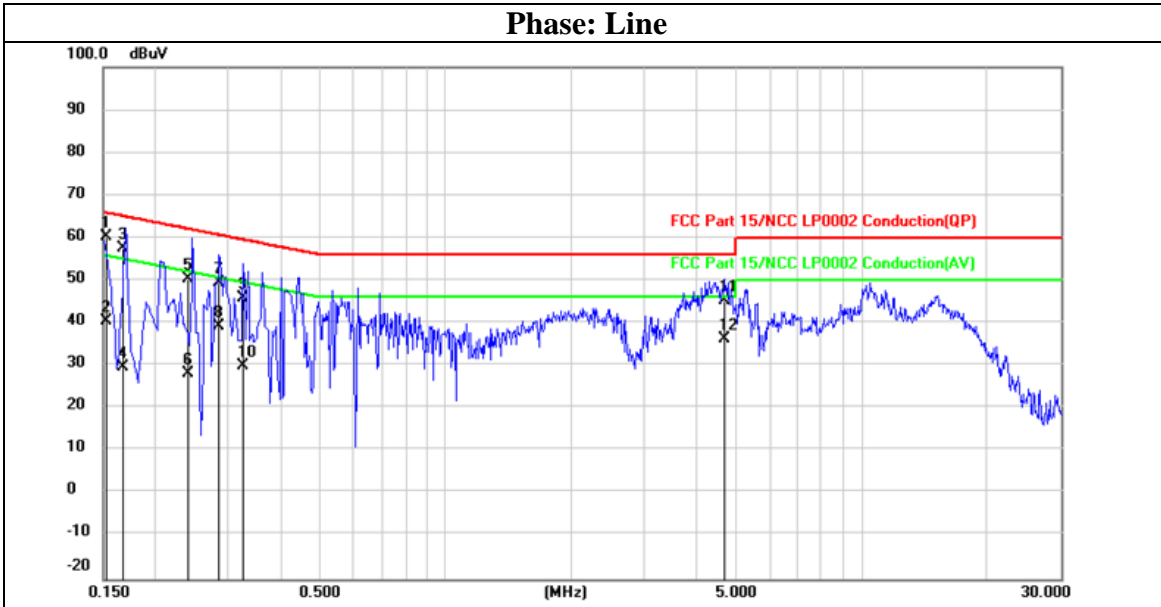
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Test Data

Mode	11ac40_TX5230	Channel	46
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1524	50.15	9.98	60.13	65.87	-5.74	QP
2	0.1524	30.37	9.98	40.35	55.87	-15.52	AVG
3	0.1666	47.50	9.98	57.48	65.13	-7.65	QP
4	0.1666	19.58	9.98	29.56	55.13	-25.57	AVG
5	0.2418	40.45	9.97	50.42	62.03	-11.61	QP
6	0.2418	18.16	9.97	28.13	52.03	-23.90	AVG
7	0.2830	39.49	9.97	49.46	60.73	-11.27	QP
8	0.2830	29.43	9.97	39.40	50.73	-11.33	AVG
9	0.3246	35.74	9.97	45.71	59.59	-13.88	QP
10	0.3246	20.08	9.97	30.05	49.59	-19.54	AVG
11	4.6791	35.29	10.11	45.40	56.00	-10.60	QP
12	4.6791	26.25	10.11	36.36	46.00	-9.64	AVG

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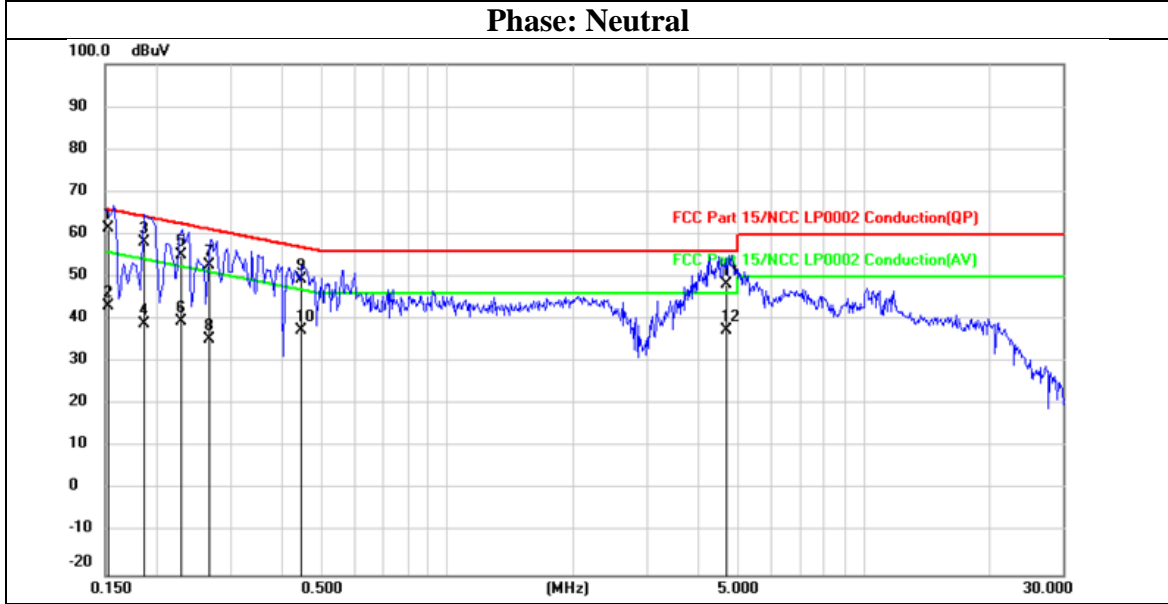
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Mode	11ac40_TX5230	Channel	46
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1537	51.41	10.00	61.41	65.80	-4.39	QP
2	0.1537	33.04	10.00	43.04	55.80	-12.76	AVG
3	0.1853	48.11	10.00	58.11	64.24	-6.13	QP
4	0.1853	28.96	10.00	38.96	54.24	-15.28	AVG
5	0.2277	45.23	10.00	55.23	62.53	-7.30	QP
6	0.2277	29.41	10.00	39.41	52.53	-13.12	AVG
7	0.2660	42.84	10.00	52.84	61.24	-8.40	QP
8	0.2660	25.47	10.00	35.47	51.24	-15.77	AVG
9	0.4441	39.59	9.99	49.58	56.98	-7.40	QP
10	0.4441	27.57	9.99	37.56	46.98	-9.42	AVG
11	4.6833	38.01	10.13	48.14	56.00	-7.86	QP
12	4.6833	27.32	10.13	37.45	46.00	-8.55	AVG

END OF REPORT

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