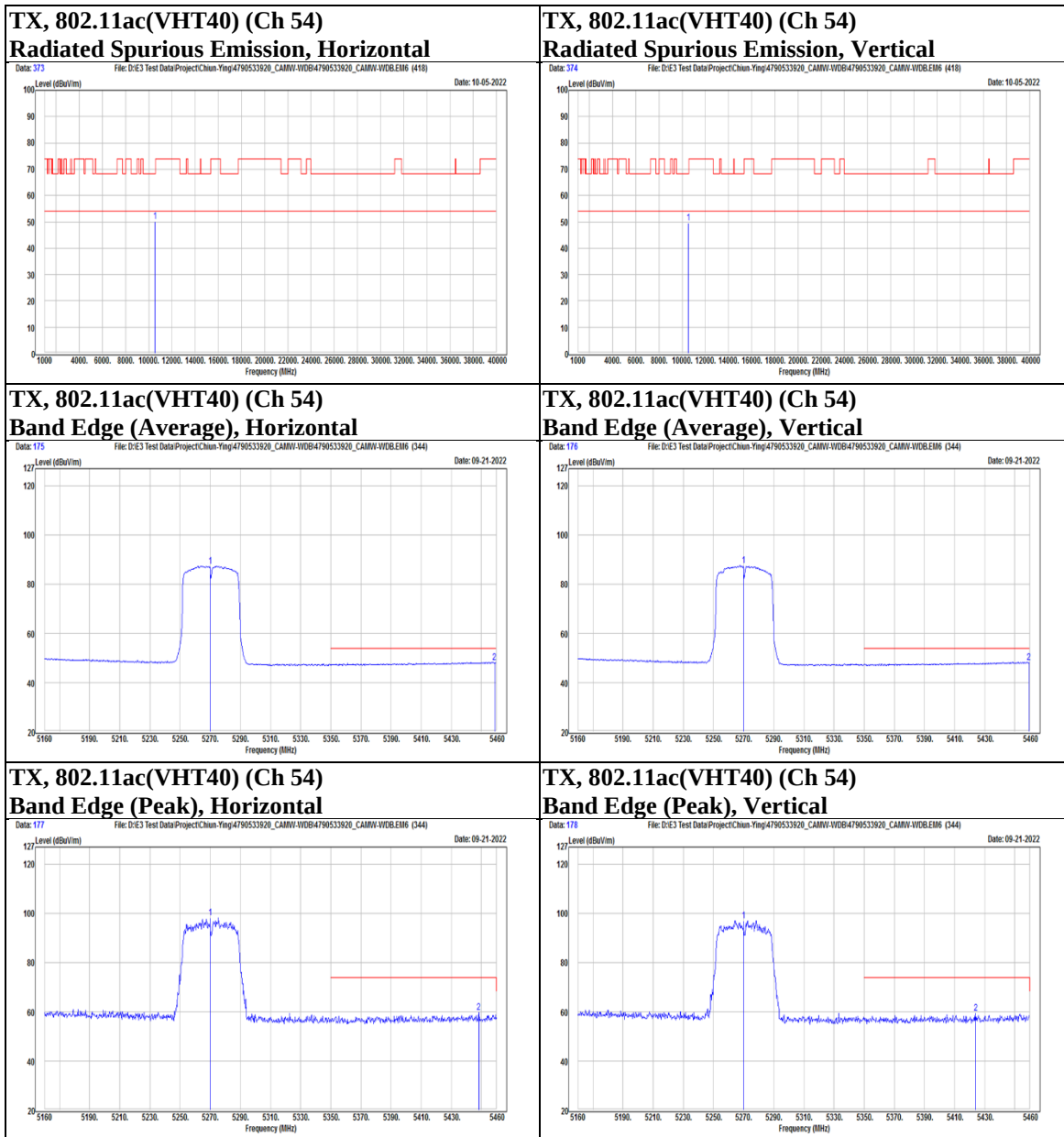




Mode	802.11ac(VHT40)	Channel	62
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5310	78.7	18.81	97.51	N/A	N/A	PK
	@	5310	72.48	18.81	91.29	N/A	N/A	AVG
		5409.9	40.62	19.32	59.94	74	-14.06	PK
		5458.5	28.82	19.56	48.38	54	-5.62	AVG
	*	10620	31.2	18.04	49.24	74	-24.76	PK
Vertical	@	5310	78.29	18.81	97.1	N/A	N/A	PK
	@	5310	71.48	18.81	90.29	N/A	N/A	AVG
		5452.5	39.9	19.53	59.43	74	-14.57	PK
		5453.7	28.66	19.53	48.19	54	-5.81	AVG
	*	10620	31.78	18.04	49.82	74	-24.18	PK

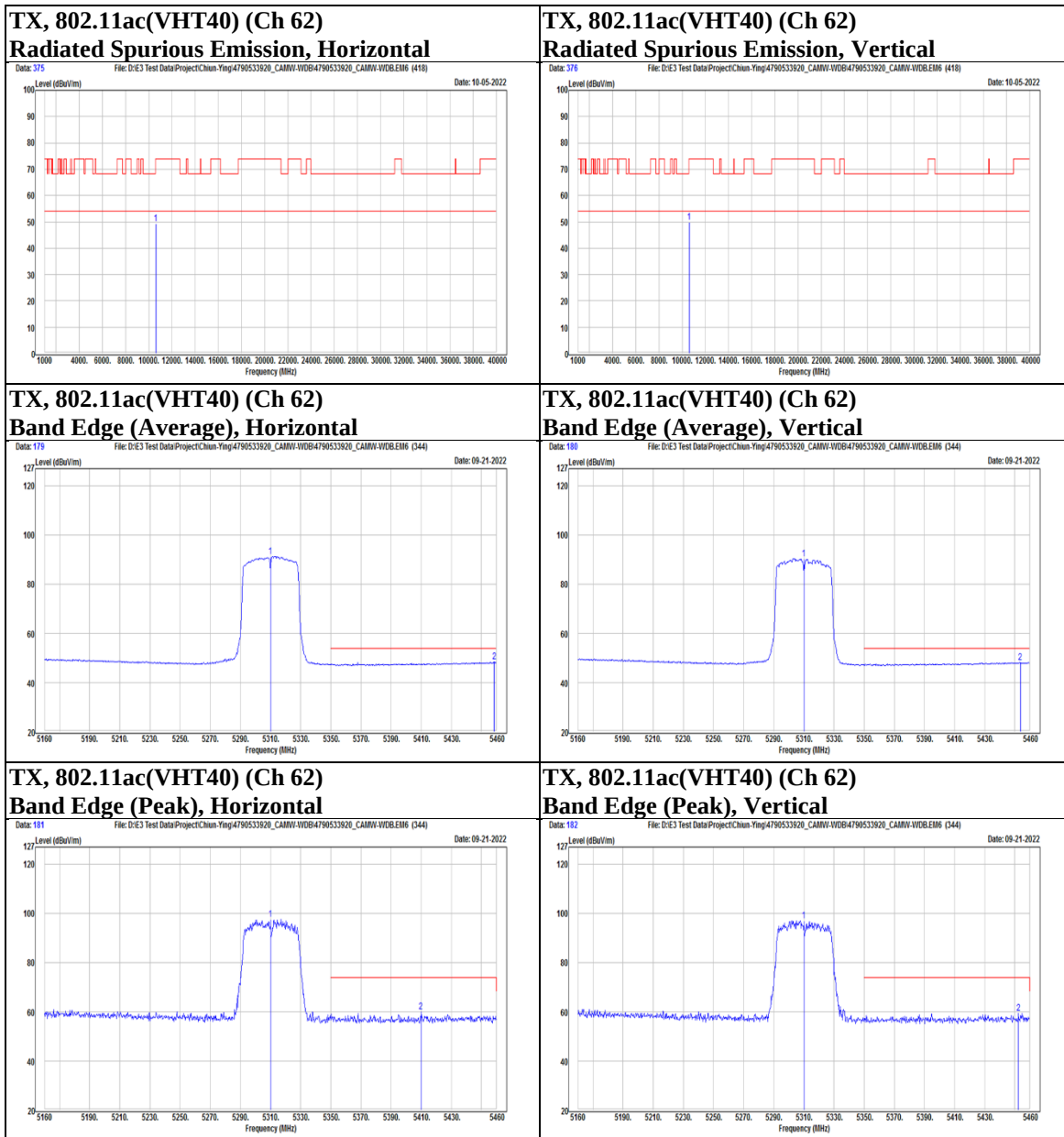
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Mode	802.11ac(VHT40)	Channel	102
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5425.9	39.64	19.39	59.03	74	-14.97	PK
		5453.2	28.09	19.53	47.62	54	-6.38	AVG
		5469.65	39.89	19.62	59.51	68.2	-8.69	PK
	@	5510	83.76	19.78	103.54	N/A	N/A	PK
	@	5510	71.33	19.78	91.11	N/A	N/A	AVG
	*	11020	31.98	18.42	50.4	74	-23.6	PK
Vertical		5420.65	39.76	19.37	59.13	74	-14.87	PK
		5456.7	28.26	19.55	47.81	54	-6.19	AVG
		5462.65	39.06	19.58	58.64	68.2	-9.56	PK
	@	5510	77.59	19.78	97.37	N/A	N/A	PK
	@	5510	67.18	19.78	86.96	N/A	N/A	AVG
	*	11020	31.44	18.42	49.86	74	-24.14	PK

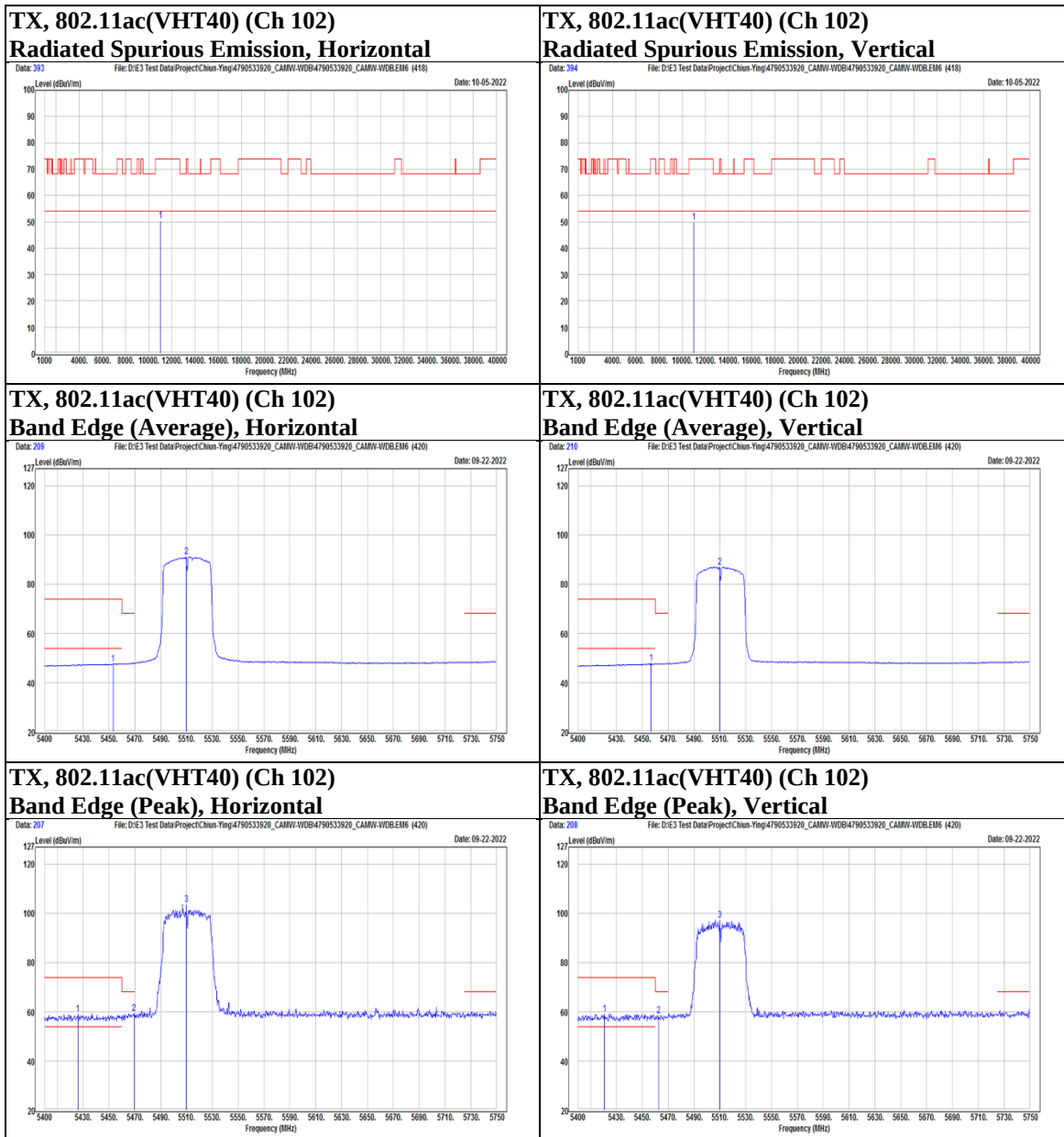
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Mode	802.11ac(VHT40)	Channel	110
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5437.45	41.43	19.46	60.89	74	-13.11	PK
		5457.75	28.09	19.55	47.64	54	-6.36	AVG
		5469.3	39.7	19.62	59.32	68.2	-8.88	PK
	@	5550	82.64	19.83	102.47	N/A	N/A	PK
	@	5550	71.66	19.83	91.49	N/A	N/A	AVG
		5735.3	41.57	20.06	61.63	68.2	-6.57	PK
	*	11100	31.49	18.45	49.94	74	-24.06	PK
Vertical		5409.8	40.24	19.32	59.56	74	-14.44	PK
		5455.65	28.13	19.54	47.67	54	-6.33	AVG
		5462.3	39.36	19.58	58.94	68.2	-9.26	PK
	@	5550	76.71	19.83	96.54	N/A	N/A	PK
	@	5550	66.69	19.83	86.52	N/A	N/A	AVG
		5736	40.89	20.07	60.96	68.2	-7.24	PK
	*	11100	30.52	18.45	48.97	74	-25.03	PK

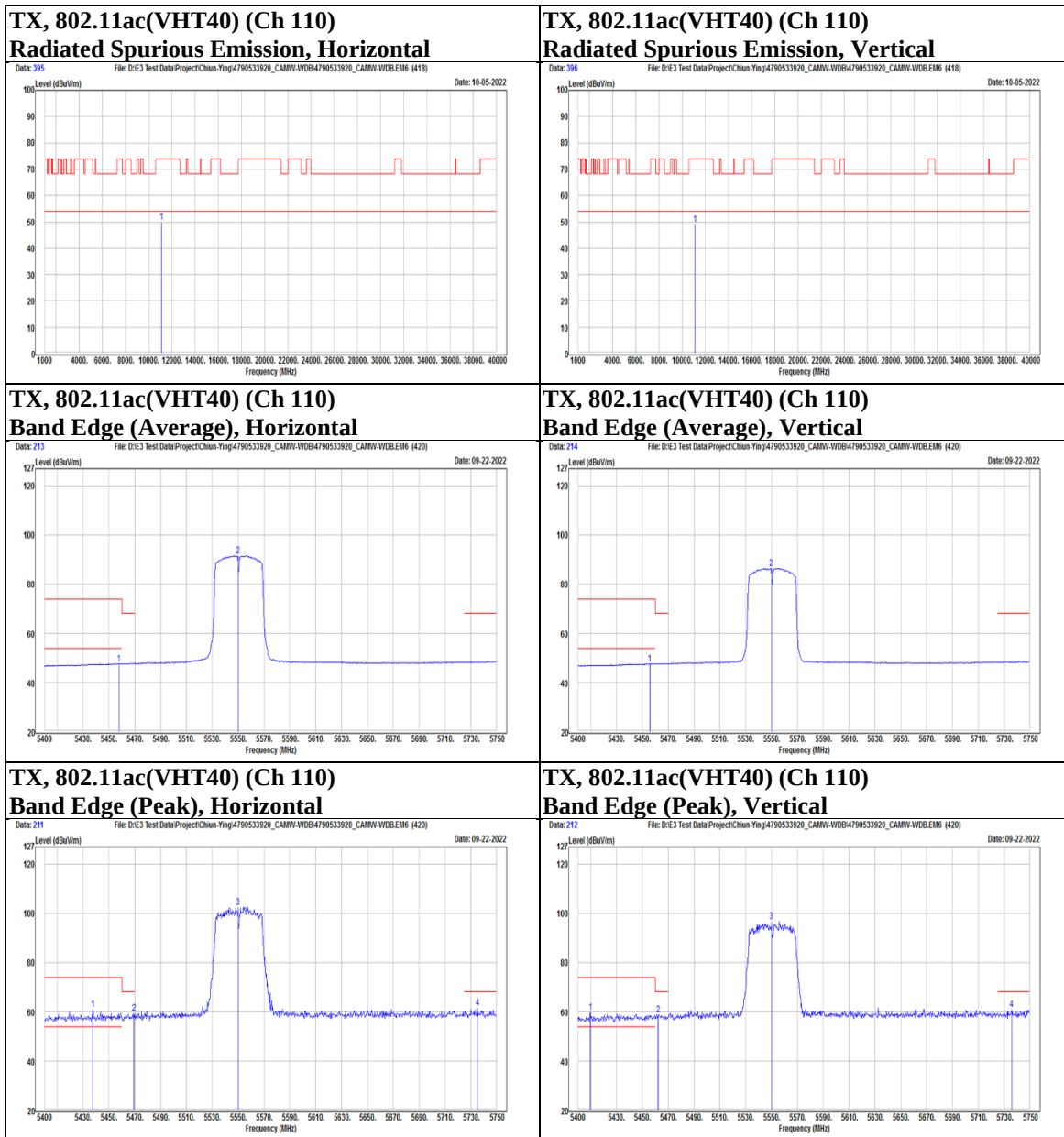
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Mode	802.11ac(VHT40)	Channel	134
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5458.1	28.2	19.56	47.76	54	-6.24	AVG
	@	5670	82.89	19.69	102.58	N/A	N/A	PK
	@	5670	71.96	19.69	91.65	N/A	N/A	AVG
		5743.7	40.62	20.14	60.76	68.2	-7.44	PK
	*	11340	29.98	18.58	48.56	74	-25.44	PK
Vertical		5453.9	28.13	19.54	47.67	54	-6.33	AVG
	@	5670	75.73	19.69	95.42	N/A	N/A	PK
	@	5670	65.64	19.69	85.33	N/A	N/A	AVG
		5739.85	41.02	20.1	61.12	68.2	-7.08	PK
	*	11340	32.19	18.58	50.77	74	-23.23	PK

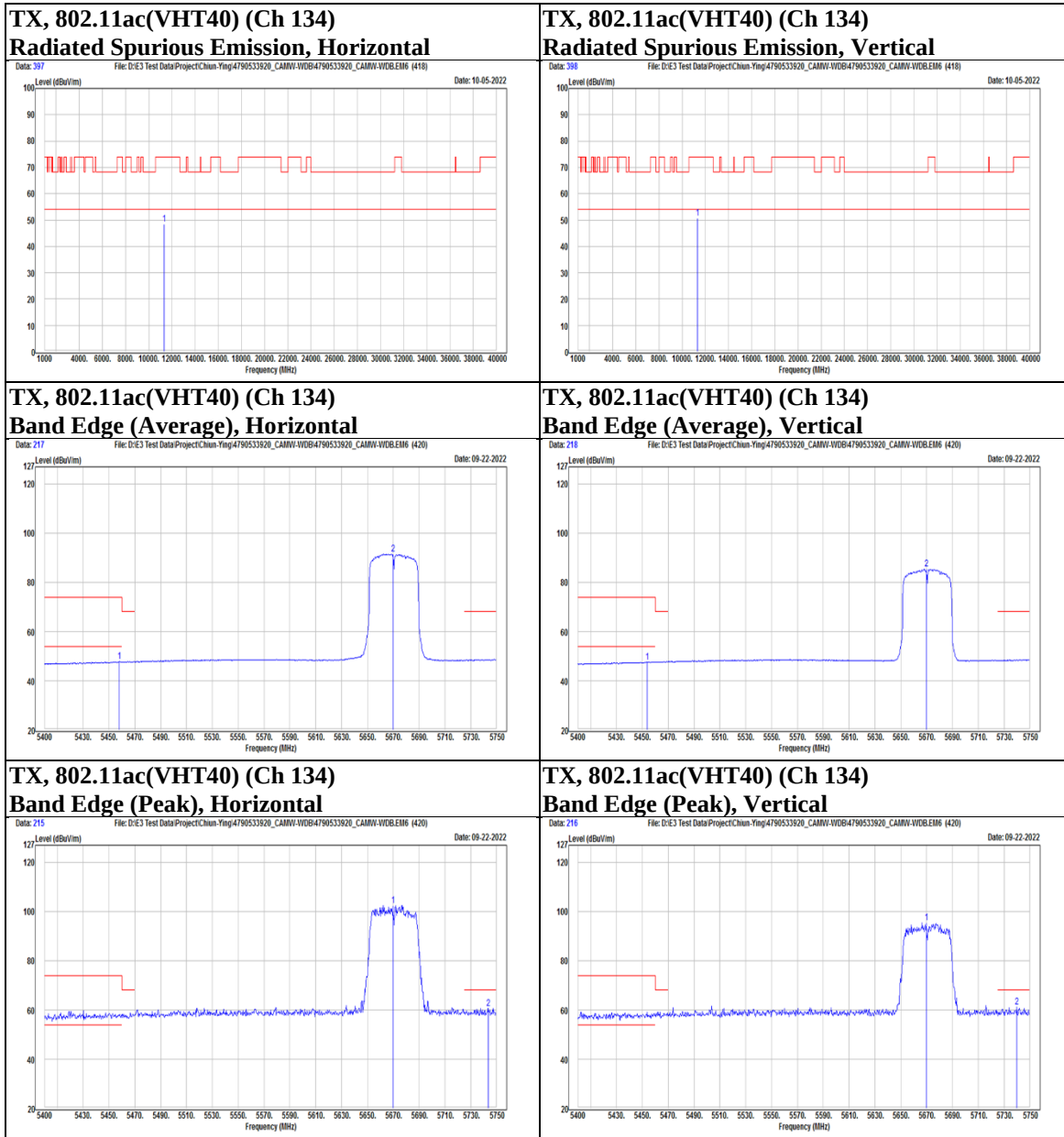
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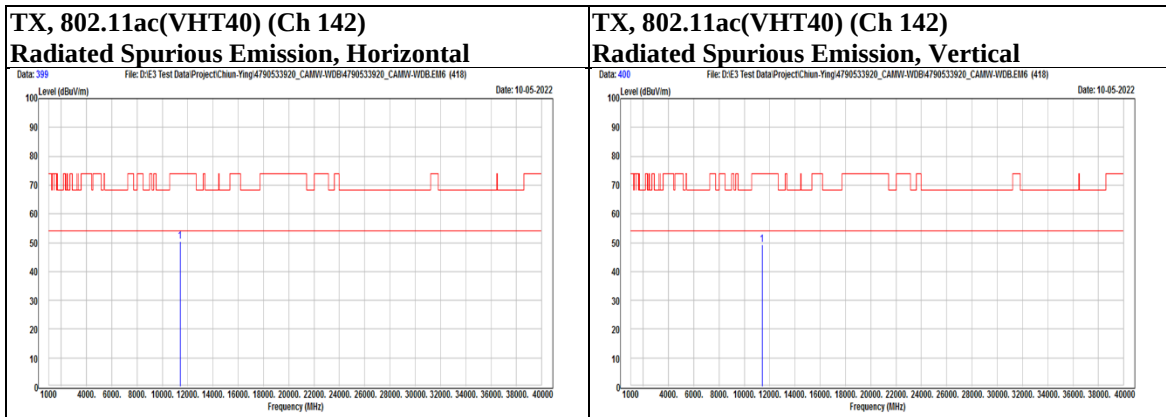
Facsimile (FAX) :+886-3-583-7948

Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1



Mode	802.11ac(VHT40)	Channel	142
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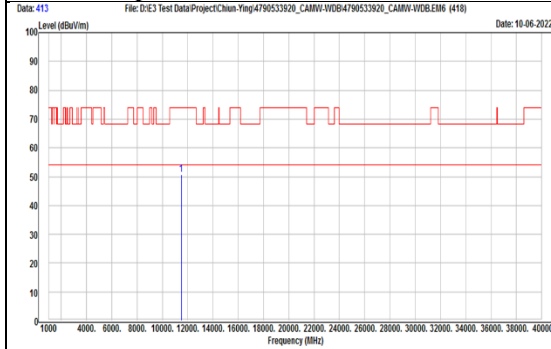
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11420	31.53	18.95	50.48	74	-23.52	PK
Vertical	*	11420	30.37	18.95	49.32	74	-24.68	PK



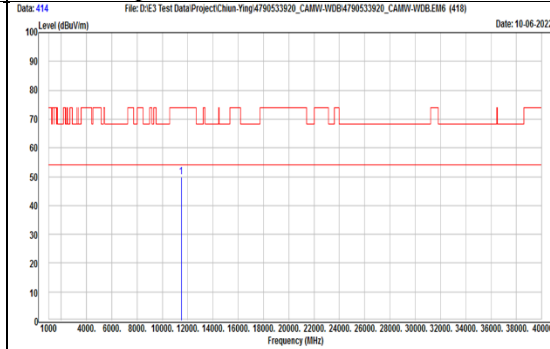
Mode	802.11ac(VHT40)	Channel	151
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5543	40.63	19.82	60.45	68.2	-7.75	PK
		5671.5	41.38	19.7	61.08	84.15	-23.07	PK
	@	5755	81.06	20.22	101.28	N/A	N/A	PK
	*	11510	31.29	19.34	50.63	74	-23.37	PK
Vertical		5574	40.99	19.77	60.76	68.2	-7.44	PK
		5671.5	41.27	19.7	60.97	84.15	-23.18	PK
	@	5755	74.73	20.22	94.95	N/A	N/A	PK
	*	11510	30.46	19.34	49.8	74	-24.2	PK

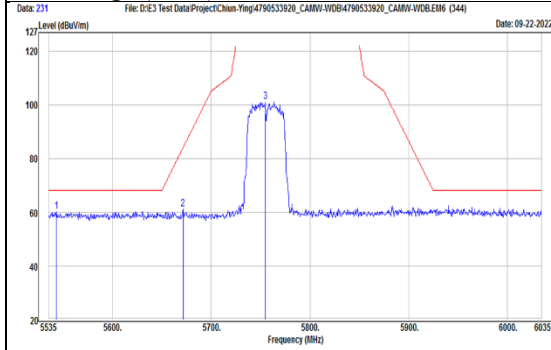
TX, 802.11ac(VHT40) (Ch 151)
Radiated Spurious Emission, Horizontal



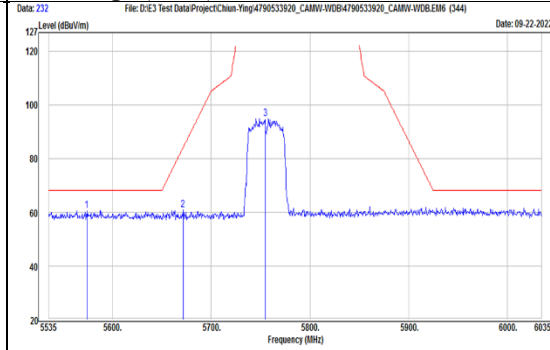
TX, 802.11ac(VHT40) (Ch 151)
Radiated Spurious Emission, Vertical



TX, 802.11ac(VHT40) (Ch 151)
Band Edge (Peak), Horizontal



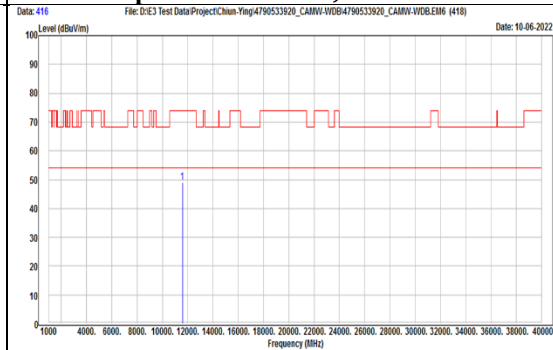
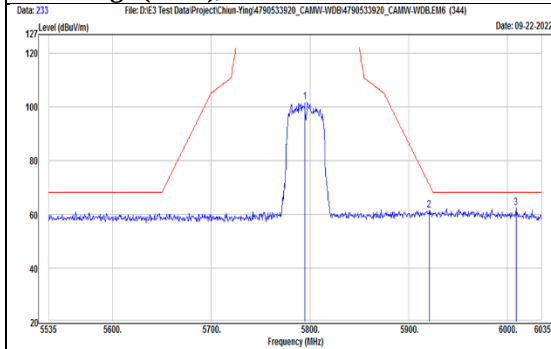
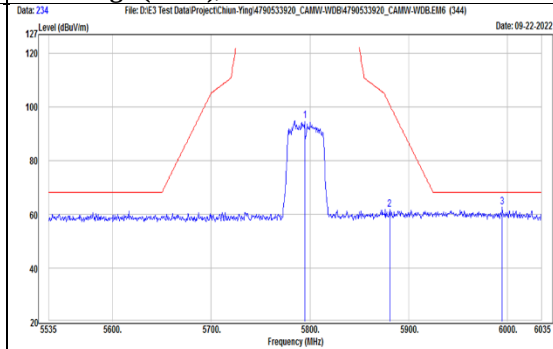
TX, 802.11ac(VHT40) (Ch 151)
Band Edge (Peak), Vertical



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	@	5795	81.27	20.52	101.79	N/A	N/A	PK
		5921	40.49	20.96	61.45	71.15	-9.7	PK
		6009	41.34	20.99	62.33	68.2	-5.87	PK
	*	11590	30.75	18.99	49.74	74	-24.26	PK
Vertical	@	5795	74.24	20.52	94.76	N/A	N/A	PK
		5881	41.01	20.85	61.86	100.74	-38.88	PK
		5995	41.75	20.99	62.74	68.2	-5.46	PK
	*	11590	30.02	18.99	49.01	74	-24.99	PK

TX, 802.11ac(VHT40) (Ch 159)
Radiated Spurious Emission, Horizontal

TX, 802.11ac(VHT40) (Ch 159)
Radiated Spurious Emission, Vertical

TX, 802.11ac(VHT40) (Ch 159)
Band Edge (Peak), Horizontal

TX, 802.11ac(VHT40) (Ch 159)
Band Edge (Peak), Vertical


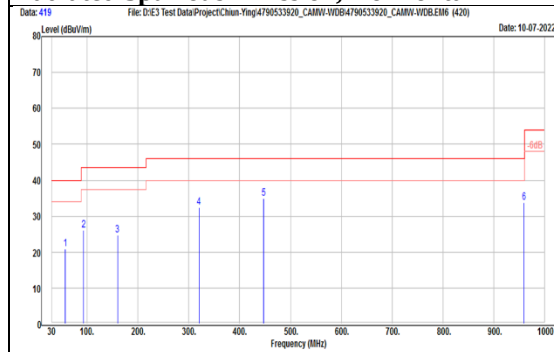
Below 1 GHz

Mode	11a	Channel	48
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		57.16	32.84	-12	20.84	40	-19.16	PK
		93.05	43.09	-17.09	26	43.5	-17.5	PK
		159.98	36.18	-11.52	24.66	43.5	-18.84	PK
		320.03	42.58	-10.26	32.32	46	-13.68	PK
		447.1	41.19	-6.38	34.81	46	-11.19	PK
		959.26	30.59	3.22	33.81	46	-12.19	PK
Vertical		45.52	39.45	-12	27.45	40	-12.55	PK
		94.02	49.01	-17.08	31.93	43.5	-11.57	PK
		156.1	40.51	-11.54	28.97	43.5	-14.53	PK
		448.07	39.08	-6.37	32.71	46	-13.29	PK
		914.64	31.21	2.52	33.73	46	-12.27	PK
		991.27	30.6	3.39	33.99	54	-20.01	PK

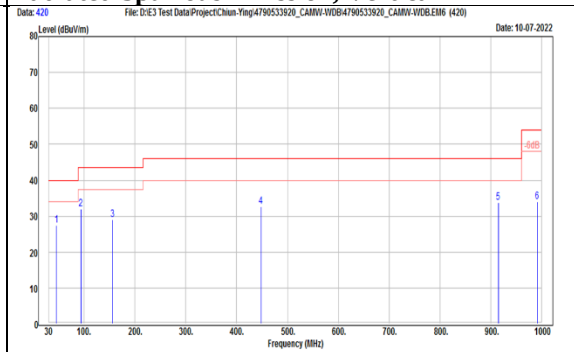
TX, 802.11a (Ch 48)

Radiated Spurious Emission, Horizontal



TX, 802.11a (Ch 48)

Radiated Spurious Emission, Vertical



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 (dBμV)	
	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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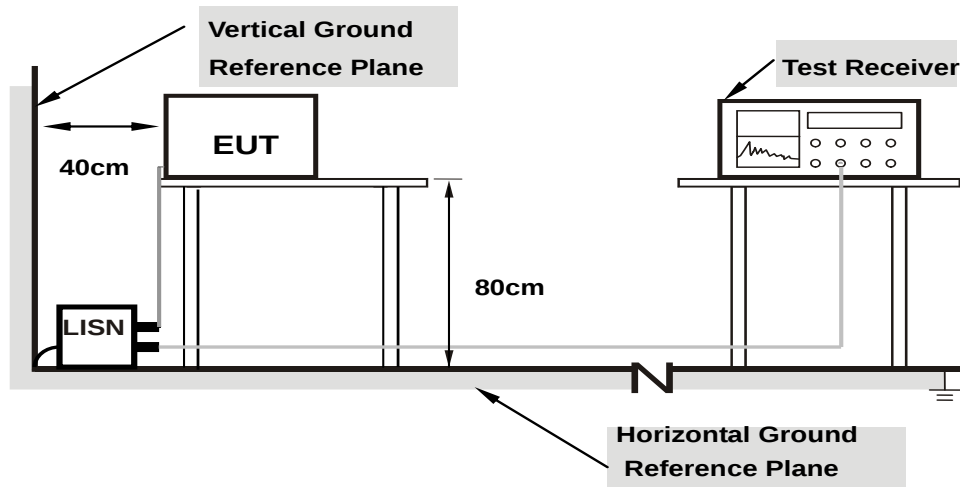
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Test Setup

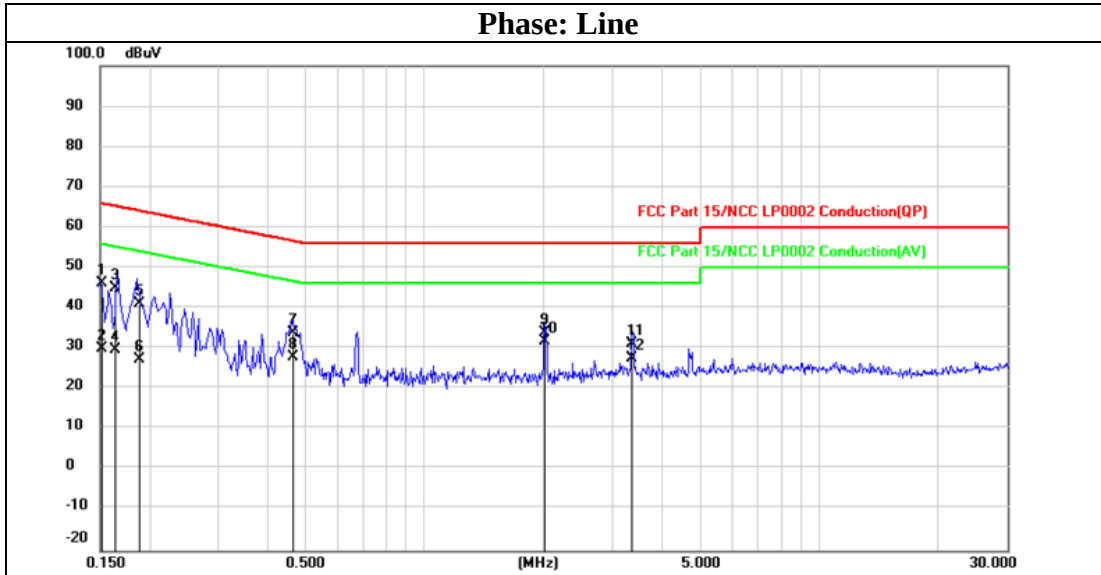


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	11a	Channel	48
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1521	26.72	19.53	46.25	65.88	-19.63	QP
2	0.1521	10.54	19.53	30.07	55.88	-25.81	AVG
3	0.1627	25.47	19.53	45.00	65.32	-20.32	QP
4	0.1627	10.05	19.53	29.58	55.32	-25.74	AVG
5	0.1882	21.59	19.53	41.12	64.12	-23.00	QP
6	0.1882	7.80	19.53	27.33	54.12	-26.79	AVG
7	0.4603	14.28	19.54	33.82	56.69	-22.87	QP
8	0.4603	8.30	19.54	27.84	46.69	-18.85	AVG
9	2.0178	14.32	19.58	33.90	56.00	-22.10	QP
10	2.0178	12.05	19.58	31.63	46.00	-14.37	AVG
11	3.3611	11.67	19.61	31.28	56.00	-24.72	QP
12	3.3611	7.80	19.61	27.41	46.00	-18.59	AVG

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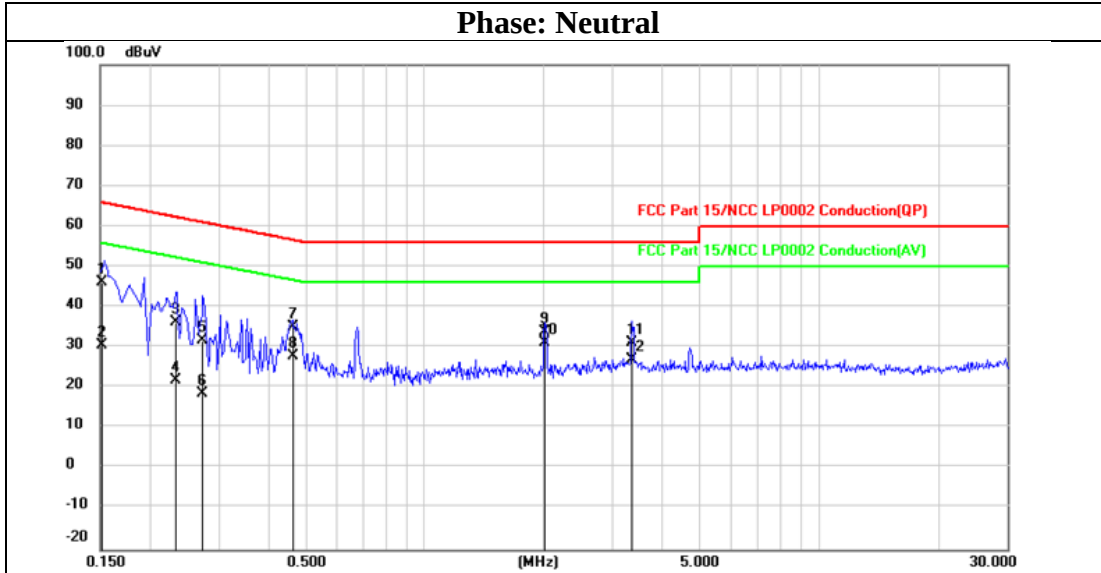
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Mode	11a	Channel	48
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1508	26.56	19.54	46.10	65.96	-19.86	QP
2	0.1508	11.09	19.54	30.63	55.96	-25.33	AVG
3	0.2322	16.60	19.54	36.14	62.37	-26.23	QP
4	0.2322	2.34	19.54	21.88	52.37	-30.49	AVG
5	0.2735	12.35	19.54	31.89	61.01	-29.12	QP
6	0.2735	-1.06	19.54	18.48	51.01	-32.53	AVG
7	0.4621	15.37	19.55	34.92	56.65	-21.73	QP
8	0.4621	8.34	19.55	27.89	46.65	-18.76	AVG
9	2.0194	14.30	19.58	33.88	56.00	-22.12	QP
10	2.0194	11.70	19.58	31.28	46.00	-14.72	AVG
11	3.3696	11.64	19.61	31.25	56.00	-24.75	QP
12	3.3696	7.43	19.61	27.04	46.00	-18.96	AVG

END OF REPORT

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