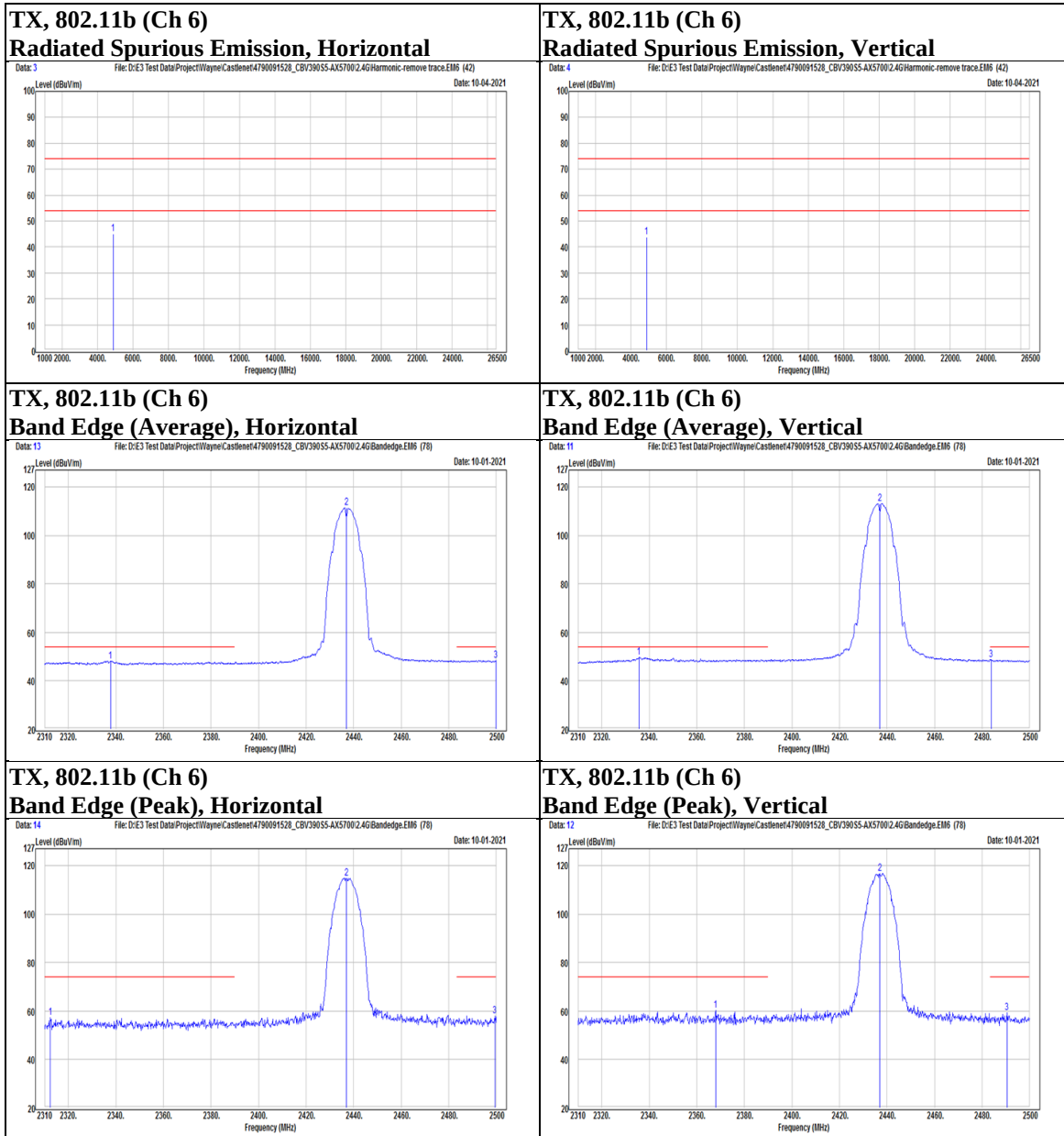




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Mode	802.11b	Channel	11
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2462	100.68	16.12	116.8	N/A	N/A	PK
	@	2462	97.31	16.12	113.43	N/A	N/A	AVG
		2483.66	34.04	16.1	50.14	54	-3.86	AVG
		2485.18	42.44	16.1	58.54	74	-15.46	PK
	*	4924	39.48	2.61	42.09	74	-31.91	PK
Vertical	@	2462	100.84	16.12	116.96	N/A	N/A	PK
	@	2462	97.64	16.12	113.76	N/A	N/A	AVG
		2483.66	43.19	16.1	59.29	74	-14.71	PK
		2483.66	34.16	16.1	50.26	54	-3.74	AVG
	*	4924	42.57	2.61	45.18	74	-28.82	PK

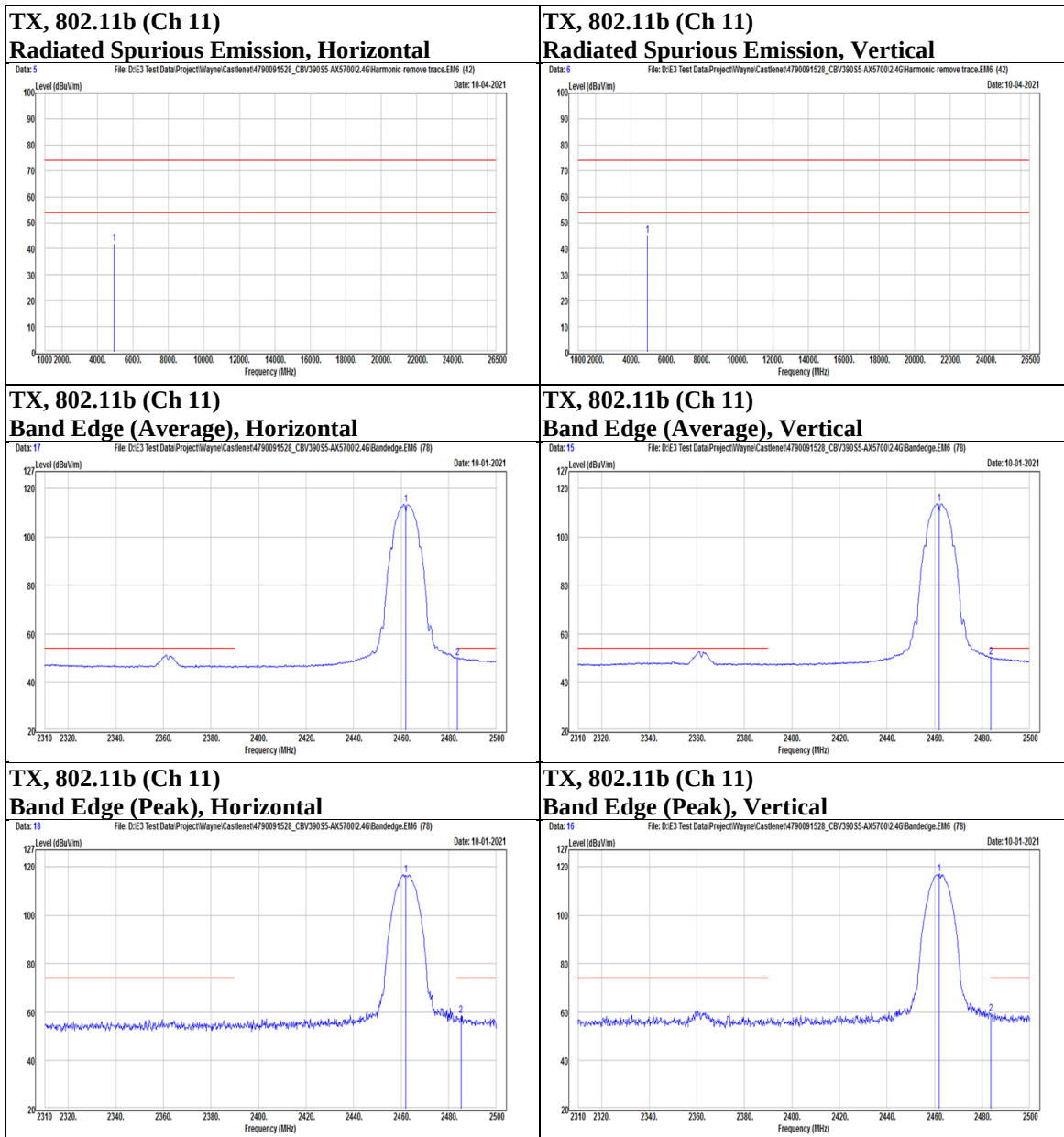
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Mode	802.11g	Channel	1
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2389.99	49.18	16.1	65.28	74	-8.72	PK
		2389.99	34.42	16.1	50.52	54	-3.48	AVG
	@	2412	96.23	16.13	112.36	N/A	N/A	PK
	@	2412	88.21	16.13	104.34	N/A	N/A	AVG
	*	4824	39.43	2.55	41.98	74	-32.02	PK
Vertical		2387.71	49.89	16.1	65.99	74	-8.01	PK
		2389.99	37.76	16.1	53.86	54	-0.14	AVG
	@	2412	99.46	16.13	115.59	N/A	N/A	PK
	@	2412	91.98	16.13	108.11	N/A	N/A	AVG
	*	4824	41.18	2.55	43.73	74	-30.27	PK

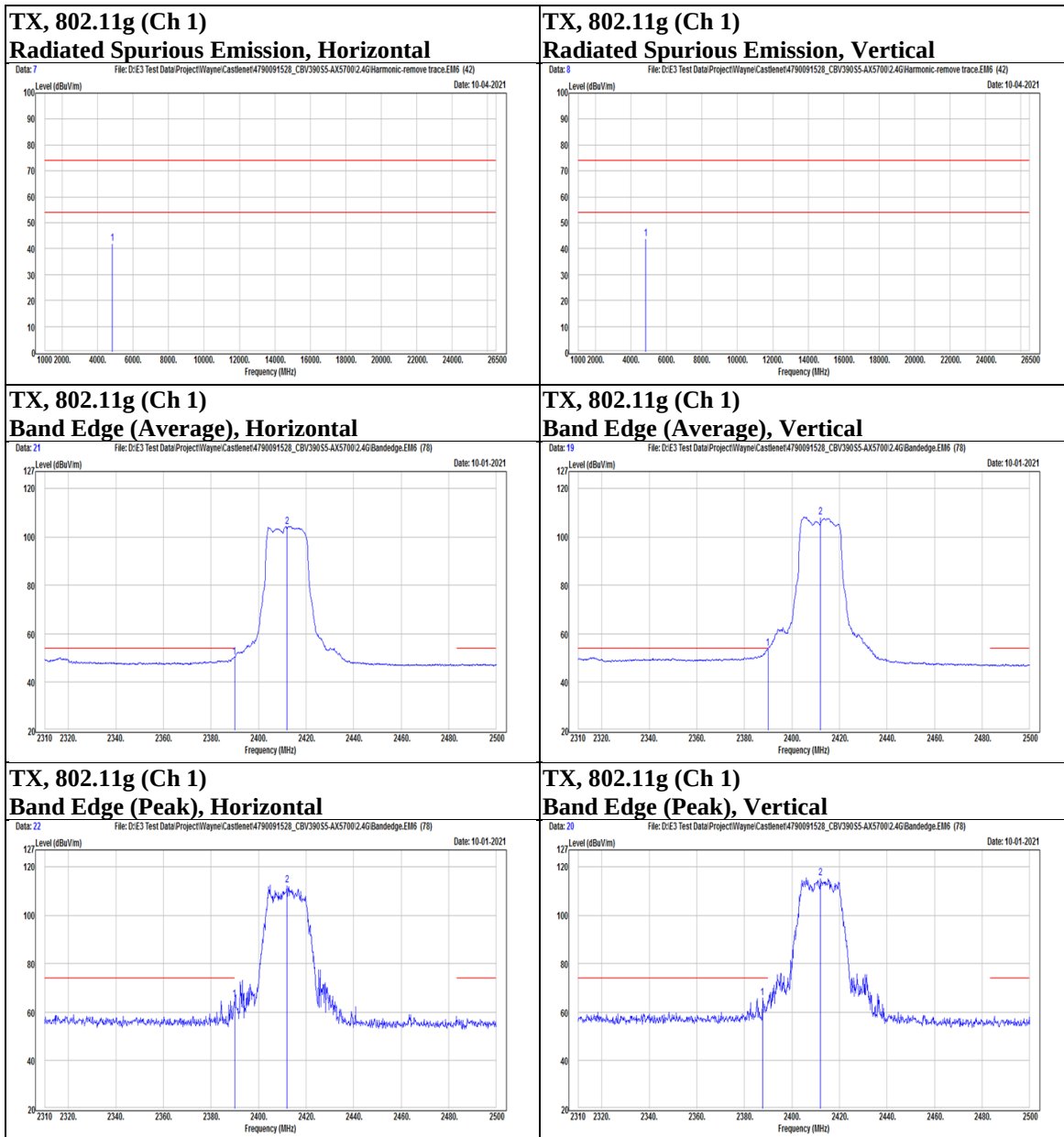
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Mode	802.11g	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2387.71	46.46	16.1	62.56	74	-11.44	PK
		2389.23	35.51	16.1	51.61	54	-2.39	AVG
	@	2437	101.17	16.12	117.29	N/A	N/A	PK
	@	2437	93.24	16.12	109.36	N/A	N/A	AVG
		2483.66	36.15	16.1	52.25	54	-1.75	AVG
		2485.56	48.95	16.1	65.05	74	-8.95	PK
	*	4874	49.87	2.66	52.53	74	-21.47	PK
Vertical		2387.14	49.85	16.1	65.95	74	-8.05	PK
		2387.71	37.2	16.1	53.3	54	-0.7	AVG
	@	2437	103.71	16.12	119.83	N/A	N/A	PK
	@	2437	95.94	16.12	112.06	N/A	N/A	AVG
		2484.8	48.69	16.1	64.79	74	-9.21	PK
		2488.22	35.47	16.1	51.57	54	-2.43	AVG
	*	4874	45.28	2.66	47.94	74	-26.06	PK

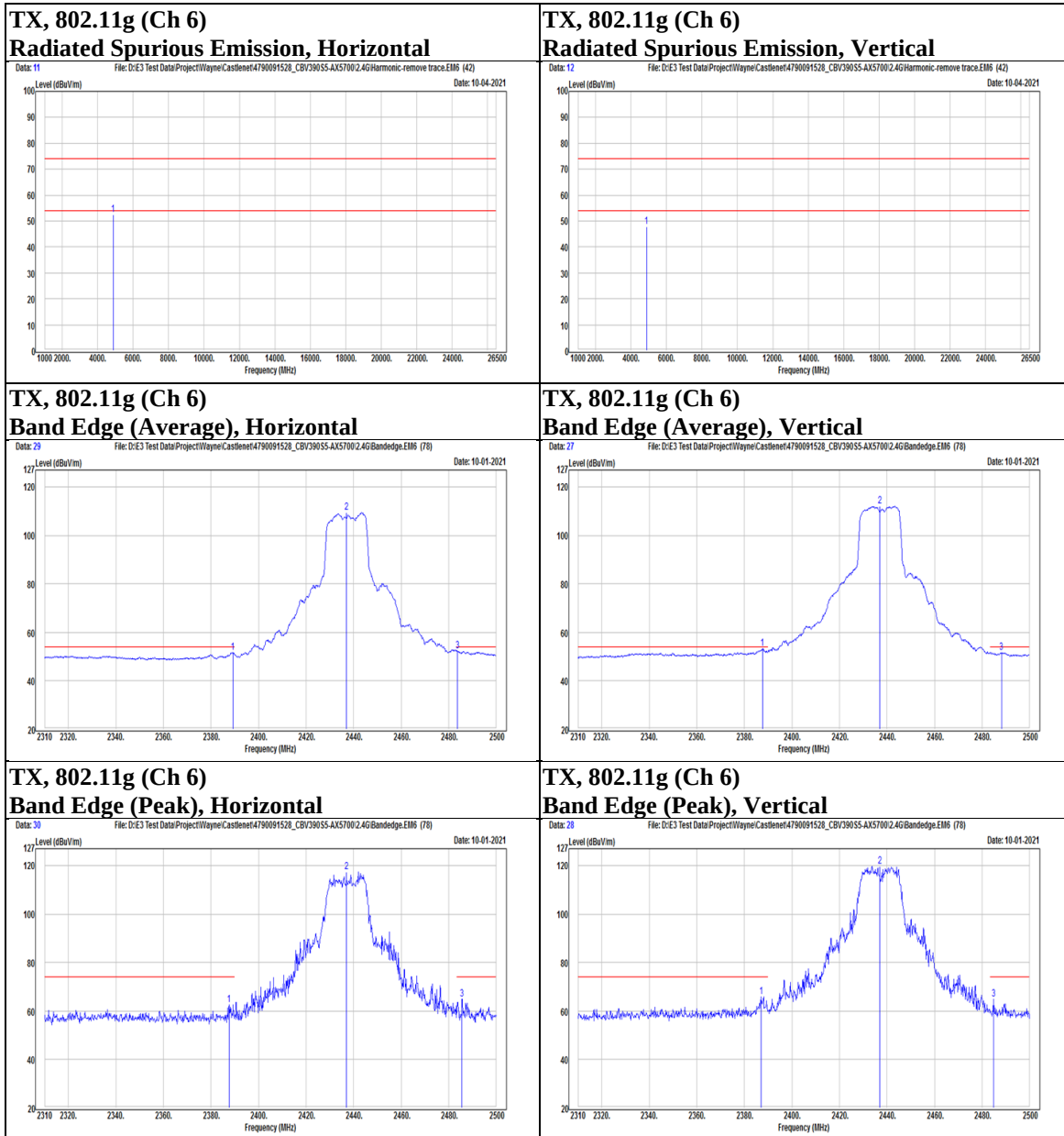
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Mode	802.11g	Channel	11
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2462	98.92	16.12	115.04	N/A	N/A	PK
	@	2462	89.82	16.12	105.94	N/A	N/A	AVG
		2483.5	52.26	16.1	68.36	74	-5.64	PK
		2483.5	37.03	16.1	53.13	54	-0.87	AVG
	*	4924	36.41	2.61	39.02	74	-34.98	PK
Vertical	@	2462	99.61	16.12	115.73	N/A	N/A	PK
	@	2462	91.29	16.12	107.41	N/A	N/A	AVG
		2483.66	37.78	16.1	53.88	54	-0.12	AVG
		2483.85	56.38	16.1	72.48	74	-1.52	PK
	*	4924	40.89	2.61	43.5	74	-30.5	PK

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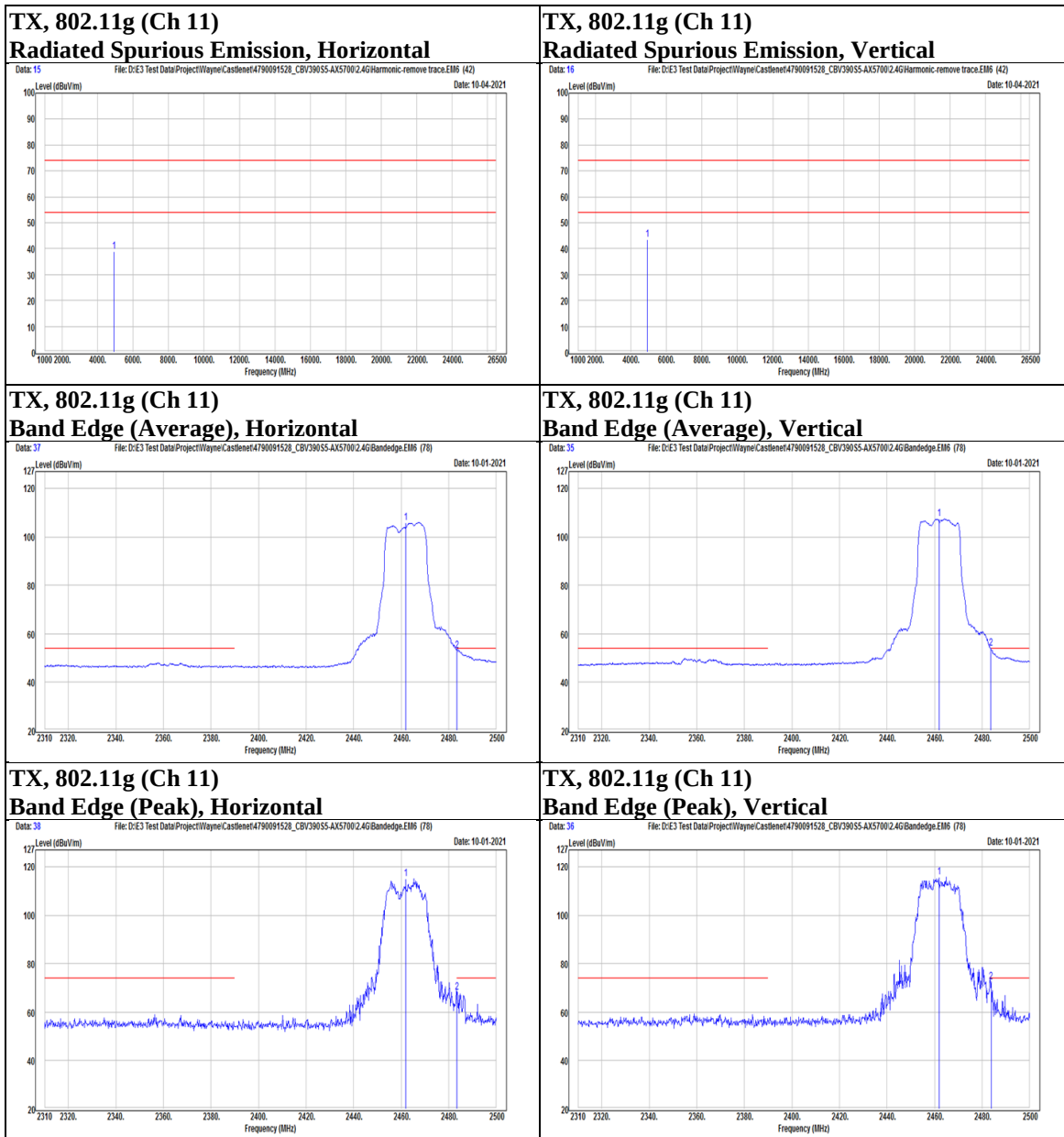
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Mode	802.11ax(HE20)	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.42	45.41	16.1	61.51	74	-12.49	PK
		2389.42	34.13	16.1	50.23	54	-3.77	AVG
	@	2412	96.84	16.13	112.97	N/A	N/A	PK
	@	2412	88.16	16.13	104.29	N/A	N/A	AVG
	*	4824	37.83	2.55	40.38	74	-33.62	PK
Vertical		2387.9	53.81	16.1	69.91	74	-4.09	PK
		2389.42	37.05	16.1	53.15	54	-0.85	AVG
	@	2412	99.39	16.13	115.52	N/A	N/A	PK
	@	2412	90.46	16.13	106.59	N/A	N/A	AVG
	*	4824	37.35	2.55	39.9	74	-34.1	PK

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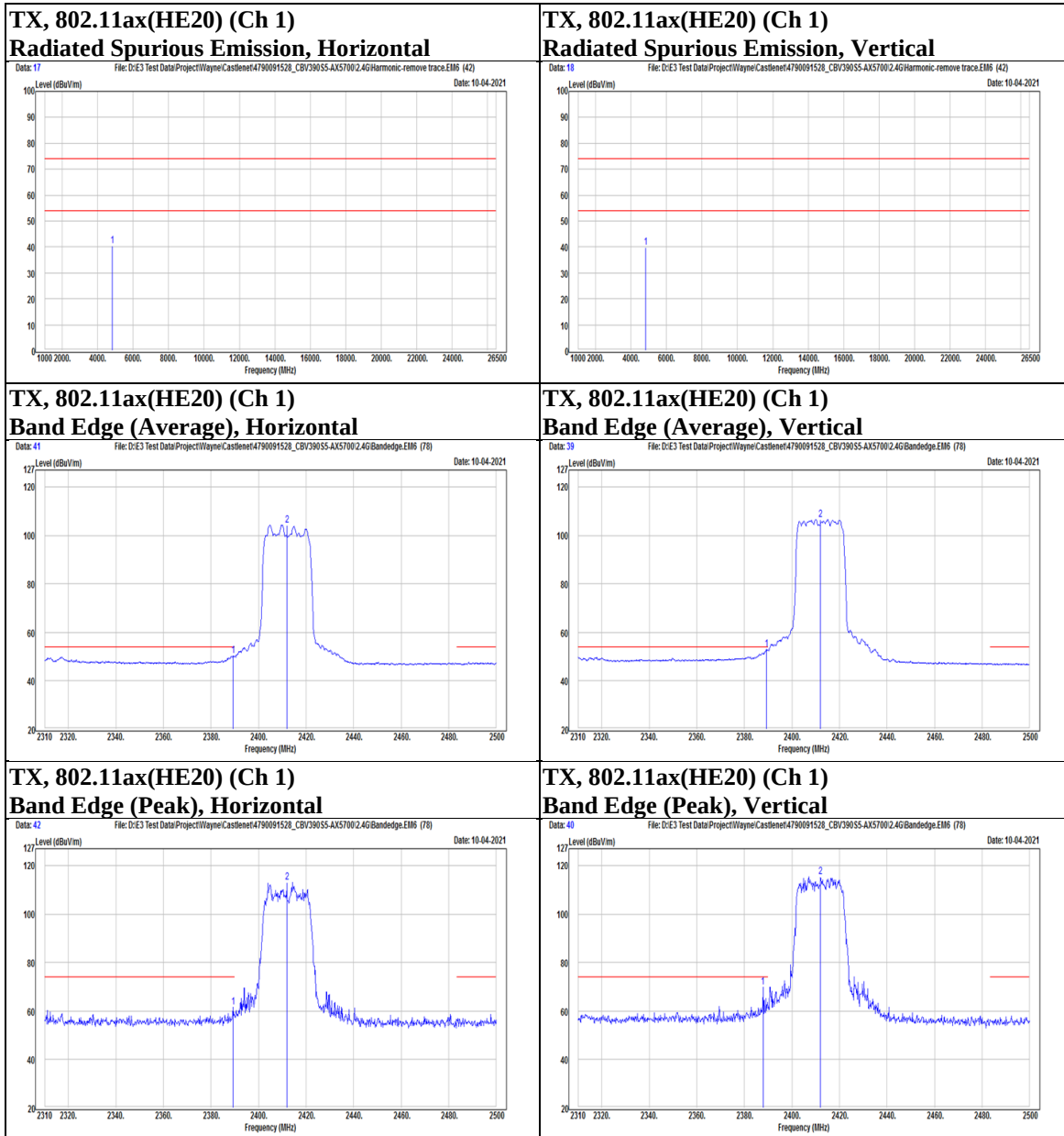
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Mode	802.11ax(HE20)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2386.57	34.5	16.1	50.6	54	-3.4	AVG
		2386.95	47.07	16.1	63.17	74	-10.83	PK
	@	2437	100.27	16.12	116.39	N/A	N/A	PK
	@	2437	91.43	16.12	107.55	N/A	N/A	AVG
		2483.66	50.94	16.1	67.04	74	-6.96	PK
		2483.85	35.59	16.1	51.69	54	-2.31	AVG
	*	4874	45.75	2.66	48.41	74	-25.59	PK
Vertical		2382.96	49.74	16.09	65.83	74	-8.17	PK
		2389.99	36.72	16.1	52.82	54	-1.18	AVG
	@	2437	104.86	16.12	120.98	N/A	N/A	PK
	@	2437	95.13	16.12	111.25	N/A	N/A	AVG
		2485.56	49.5	16.1	65.6	74	-8.4	PK
		2485.56	35.86	16.1	51.96	54	-2.04	AVG
	*	4874	43.7	2.66	46.36	74	-27.64	PK

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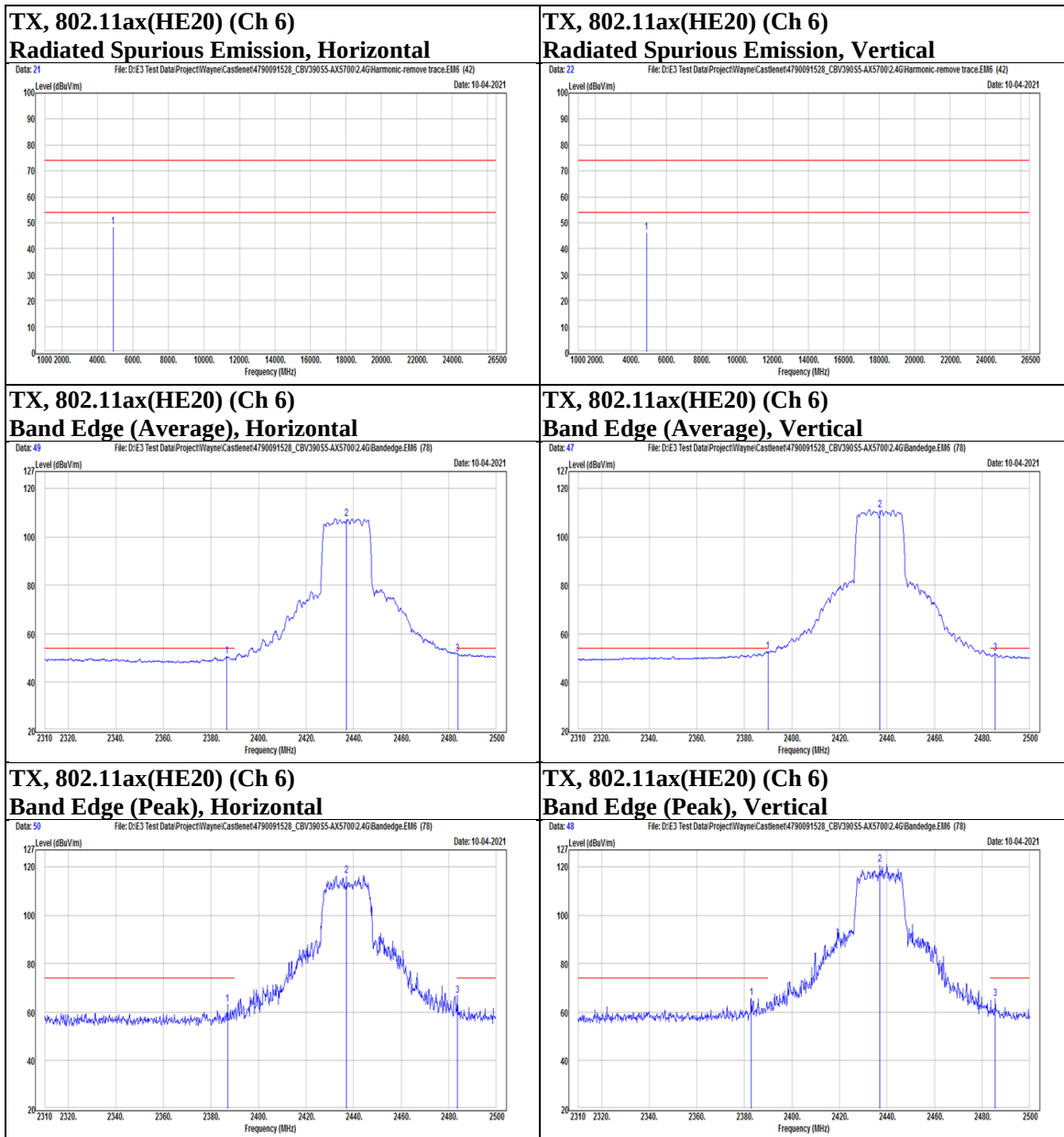
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Mode	802.11ax(HE20)	Channel	11
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2462	97.29	16.12	113.41	N/A	N/A	PK
	@	2462	89.06	16.12	105.18	N/A	N/A	AVG
		2484.42	36.66	16.1	52.76	54	-1.24	AVG
		2488.03	48.59	16.1	64.69	74	-9.31	PK
	*	4924	37.03	2.61	39.64	74	-34.36	PK
Vertical	@	2462	99.16	16.12	115.28	N/A	N/A	PK
	@	2462	89.99	16.12	106.11	N/A	N/A	AVG
		2483.66	47.73	16.1	63.83	74	-10.17	PK
		2483.66	36.88	16.1	52.98	54	-1.02	AVG
	*	4924	37.02	2.61	39.63	74	-34.37	PK

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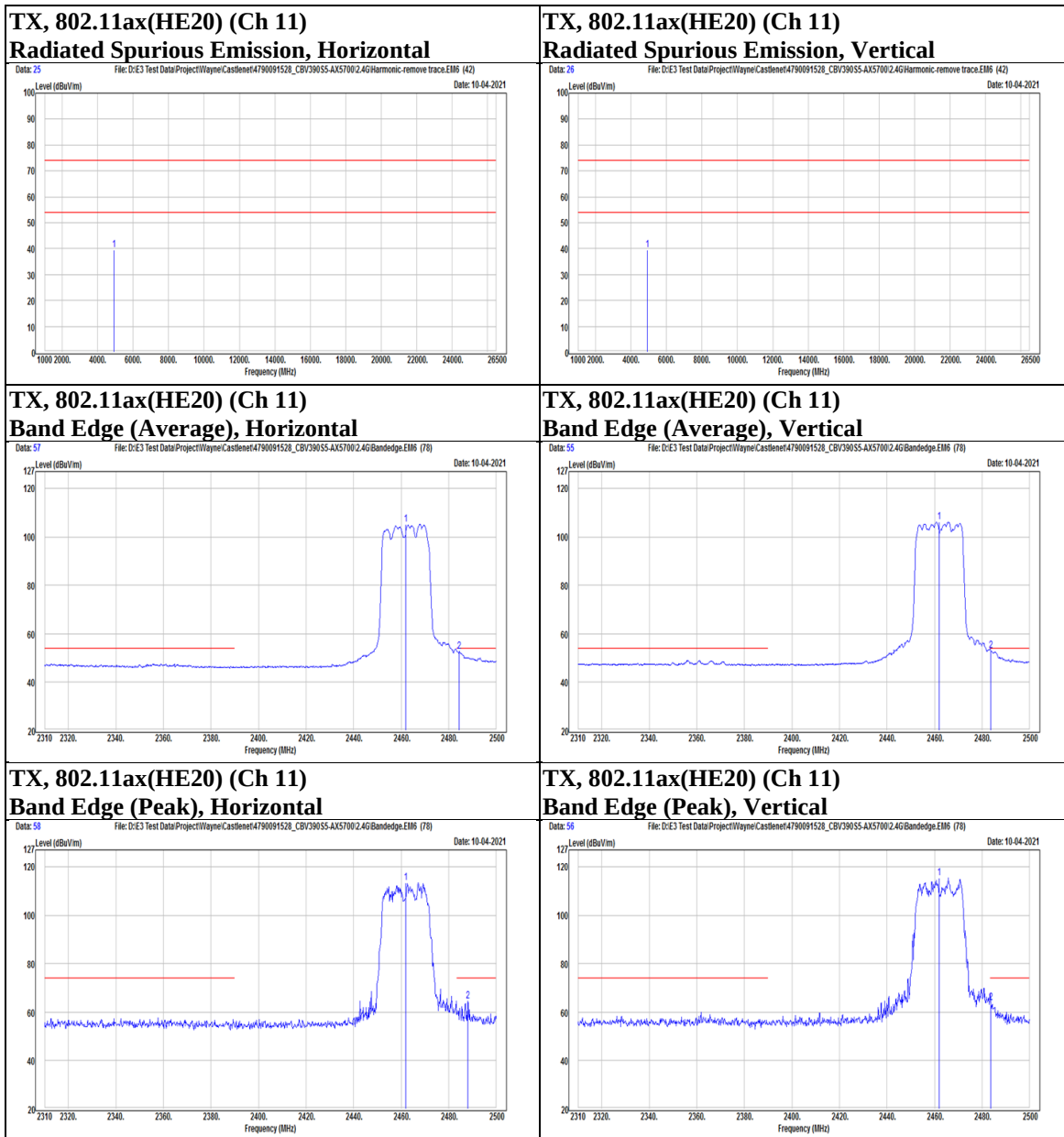
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Mode	802.11ax(HE40)	Channel	3
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2383.91	46.63	16.09	62.72	74	-11.28	PK
		2388.85	35.05	16.1	51.15	54	-2.85	AVG
	@	2422	92.45	16.13	108.58	N/A	N/A	PK
	@	2422	84.55	16.13	100.68	N/A	N/A	AVG
	*	4844	36.51	2.66	39.17	74	-34.83	PK
Vertical		2389.04	37.69	16.1	53.79	54	-0.21	AVG
		2389.23	50.3	16.1	66.4	74	-7.6	PK
	@	2422	95.39	16.13	111.52	N/A	N/A	PK
	@	2422	87.27	16.13	103.4	N/A	N/A	AVG
	*	4844	36.7	2.66	39.36	74	-34.64	PK

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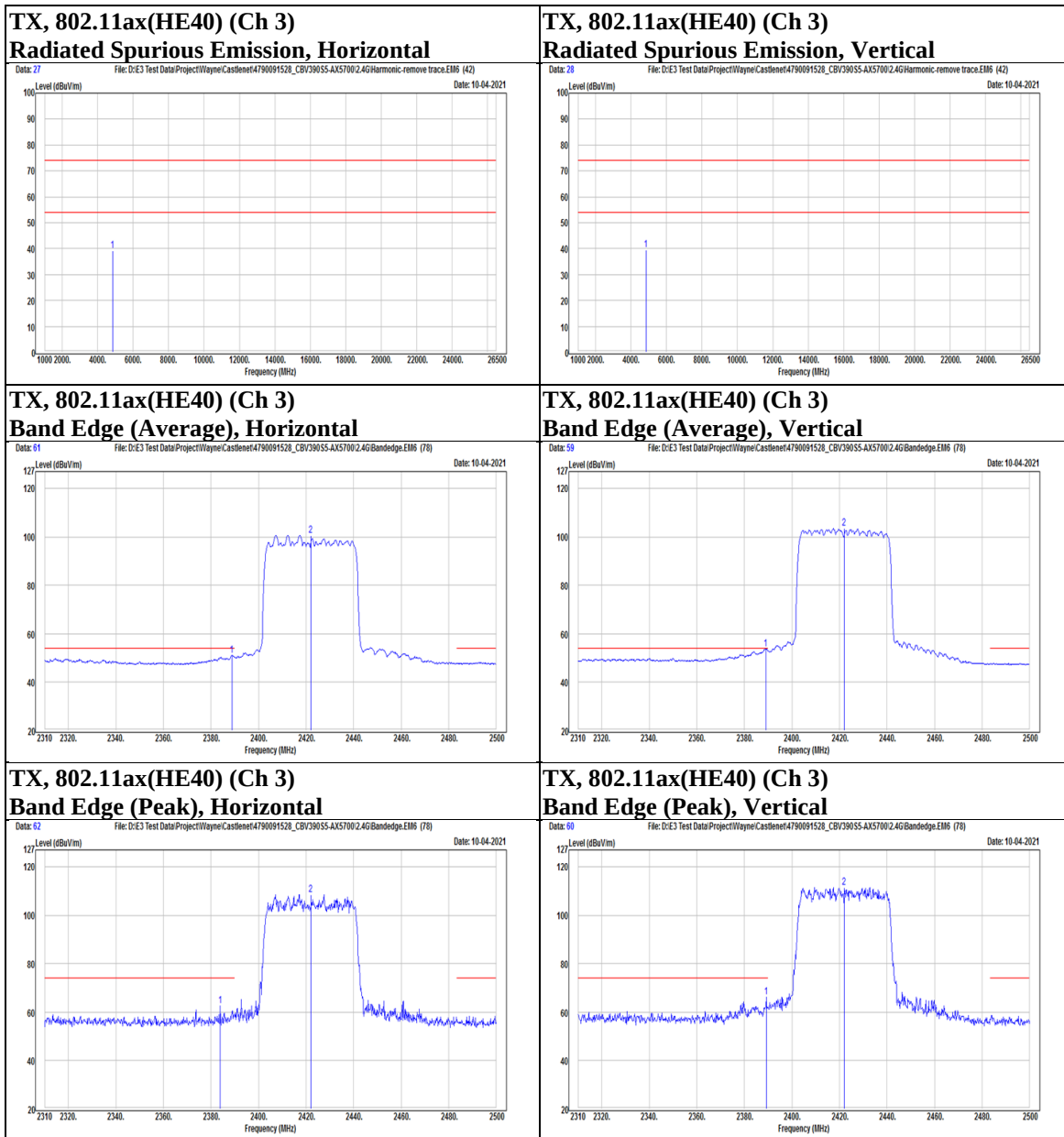
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Mode	802.11ax(HE40)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2382.39	45.45	16.09	61.54	74	-12.46	PK
		2389.8	33.69	16.1	49.79	54	-4.21	AVG
	@	2437	96.44	16.12	112.56	N/A	N/A	PK
	@	2437	86.08	16.12	102.2	N/A	N/A	AVG
		2484.23	36.54	16.1	52.64	54	-1.36	AVG
		2486.51	48.58	16.1	64.68	74	-9.32	PK
	*	4874	36.34	2.66	39	74	-35	PK
Vertical		2389.42	48.24	16.1	64.34	74	-9.66	PK
		2389.61	36.91	16.1	53.01	54	-0.99	AVG
	@	2437	97.05	16.12	113.17	N/A	N/A	PK
	@	2437	88.48	16.12	104.6	N/A	N/A	AVG
		2484.42	47.76	16.1	63.86	74	-10.14	PK
		2484.42	37.14	16.1	53.24	54	-0.76	AVG
	*	4874	37.96	2.66	40.62	74	-33.38	PK

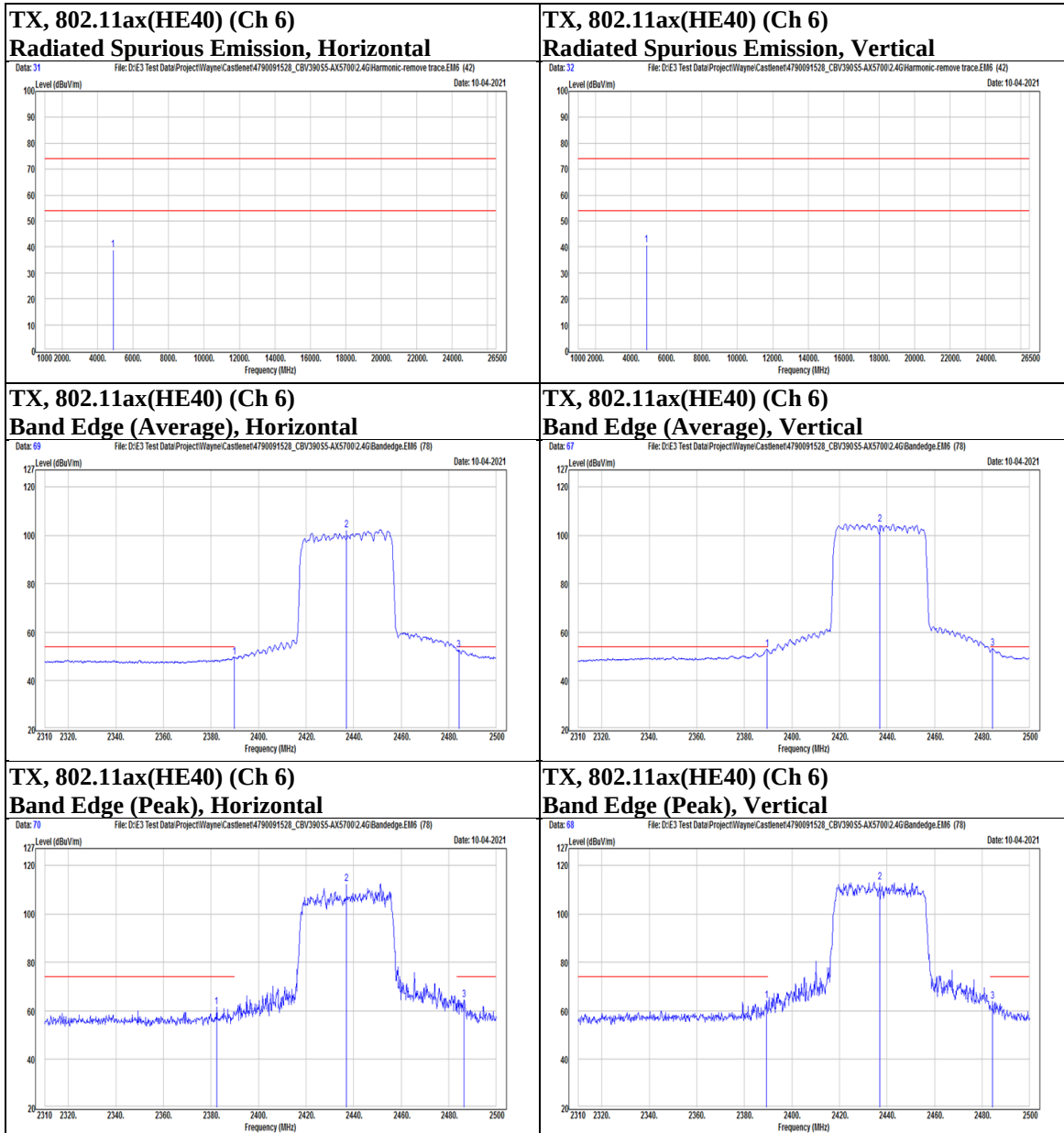
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Mode	802.11ax(HE40)	Channel	9
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2452	94.65	16.12	110.77	N/A	N/A	PK
	@	2452	84.72	16.12	100.84	N/A	N/A	AVG
		2483.66	48.82	16.1	64.92	74	-9.08	PK
		2484.42	36.06	16.1	52.16	54	-1.84	AVG
	*	4904	36.65	2.63	39.28	74	-34.72	PK
Vertical	@	2452	95.53	16.12	111.65	N/A	N/A	PK
	@	2452	85.94	16.12	102.06	N/A	N/A	AVG
		2485.94	36.94	16.1	53.04	54	-0.96	AVG
		2495.25	46.93	16.1	63.03	74	-10.97	PK
	*	4904	36.36	2.63	38.99	74	-35.01	PK

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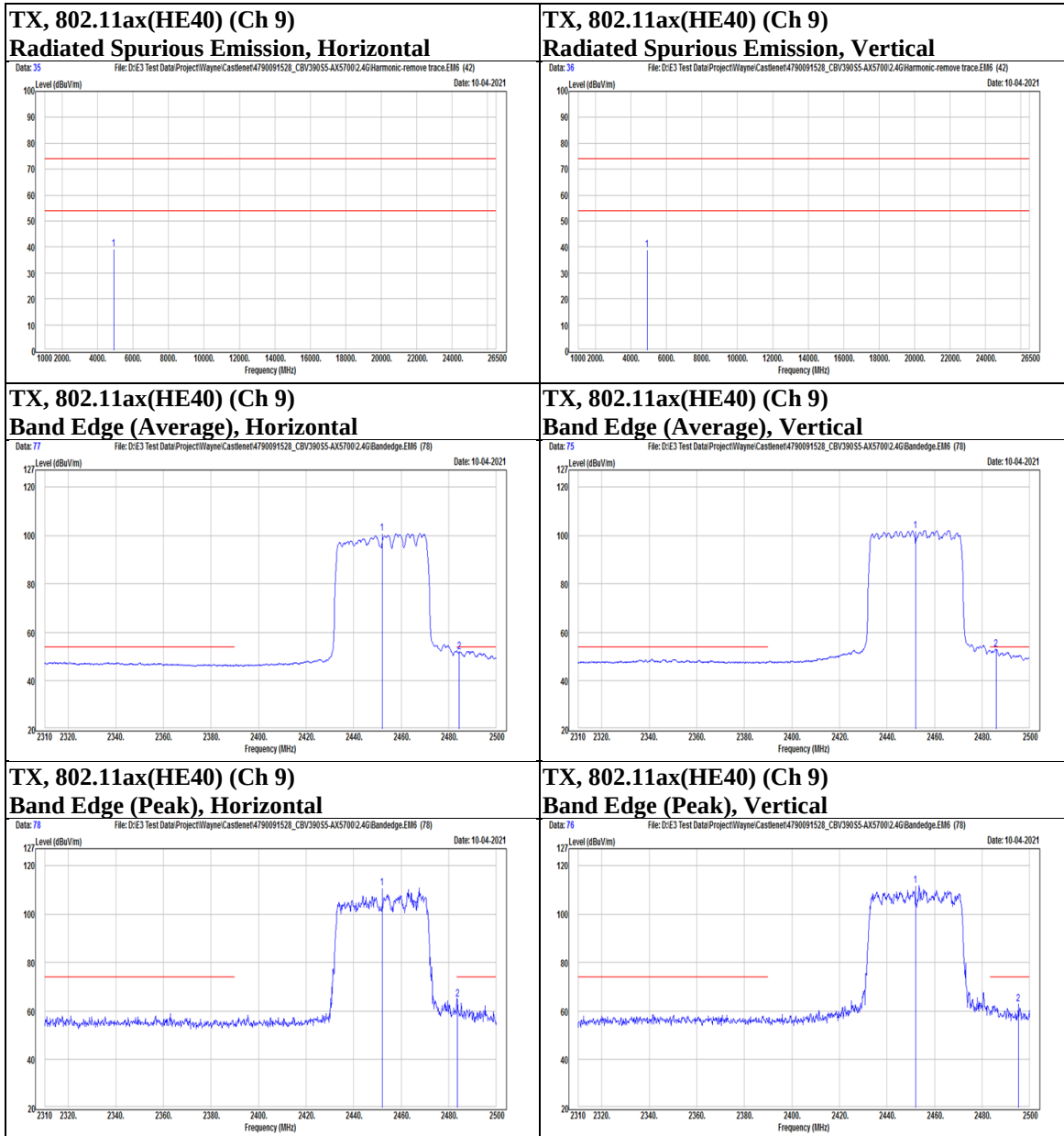
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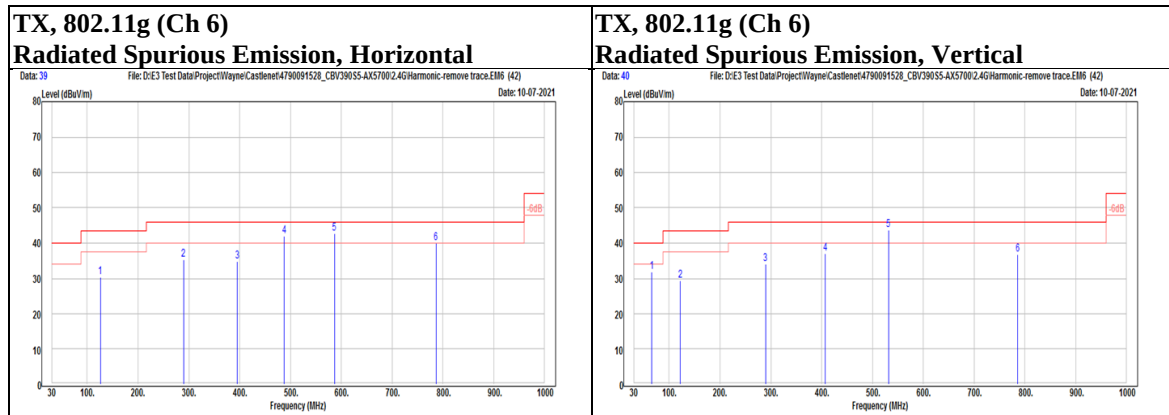


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Below 1G

Mode	802.11g	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		126.03	44.12	-13.76	30.36	43.5	-13.14	PK
		289.96	45.63	-10.29	35.34	46	-10.66	PK
		395.69	41.93	-7.19	34.74	46	-11.26	PK
		487.84	46.93	-4.89	42.04	46	-3.96	PK
		586.78	45.14	-2.52	42.62	46	-3.38	PK
		786.6	39.05	1.05	40.1	46	-5.9	PK
Vertical		65.89	45.04	-13.1	31.94	40	-8.06	PK
		122.15	43.53	-14.19	29.34	43.5	-14.16	PK
		289.96	44.49	-10.29	34.2	46	-11.8	PK
		407.33	43.81	-6.84	36.97	46	-9.03	PK
		531.49	47.46	-3.69	43.77	46	-2.23	PK
		785.63	35.69	1.05	36.74	46	-9.26	PK



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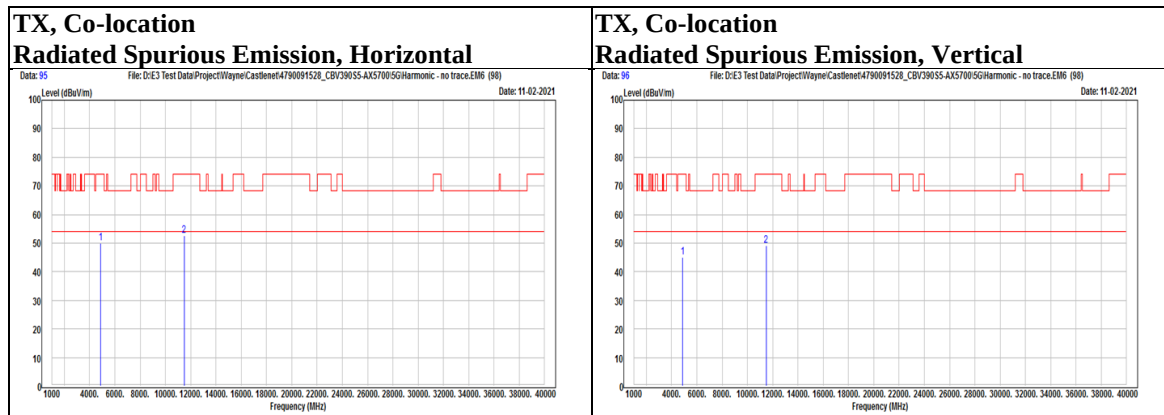
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Simultaneously Transmission Condition:

Above 1 GHz

Mode	Co-location	Channel
		WiFi 2.4G 802.11g Ch 6 WiFi 5G 802.11ax20 Ch 149

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4874	47.4	2.66	50.06	74	-23.94	PK
	*	11490	33.61	19.02	52.63	74	-21.37	PK
Vertical	*	4874	42.52	2.66	45.18	74	-28.82	PK
	*	11490	30.2	19.02	49.22	74	-24.78	PK



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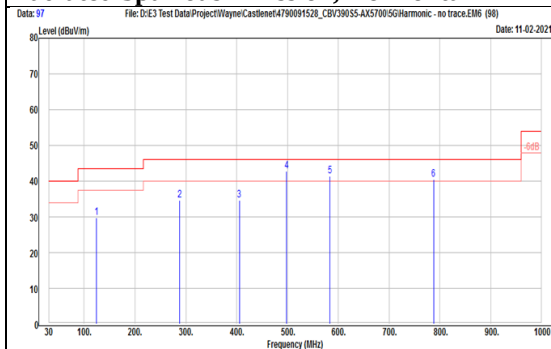
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Below 1 GHz

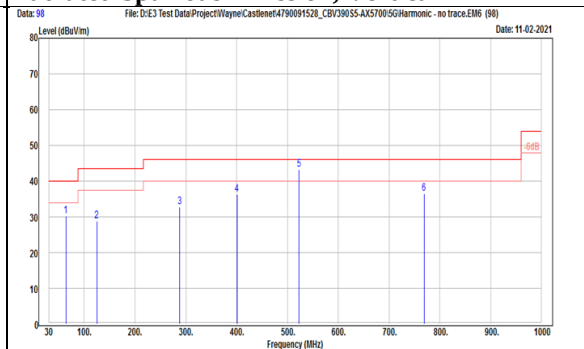
Mode	Co-location	Channel	WiFi 2.4G 802.11g Ch 6 WiFi 5G 802.11ax20 Ch 149
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		124.09	43.82	-13.99	29.83	43.5	-13.67	PK
		288.02	44.91	-10.34	34.57	46	-11.43	PK
		405.39	41.51	-6.85	34.66	46	-11.34	PK
		498.51	47.66	-4.79	42.87	46	-3.13	PK
		583.87	44.01	-2.7	41.31	46	-4.69	PK
		787.57	39.4	1.06	40.46	46	-5.54	PK
Vertical		63.95	42.95	-12.62	30.33	40	-9.67	PK
		125.06	42.89	-13.96	28.93	43.5	-14.57	PK
		288.02	43.24	-10.34	32.9	46	-13.1	PK
		400.54	43.25	-6.98	36.27	46	-9.73	PK
		522.76	47.16	-3.94	43.22	46	-2.78	PK
		769.14	35.54	0.97	36.51	46	-9.49	PK

TX, Co-location Radiated Spurious Emission, Horizontal



TX, Co-location Radiated Spurious Emission, Vertical



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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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9.6. 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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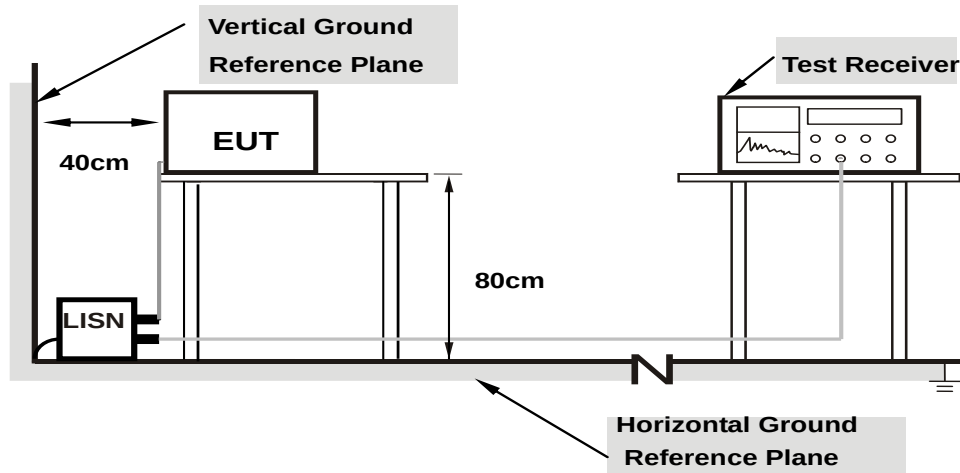
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Test Setup



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

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

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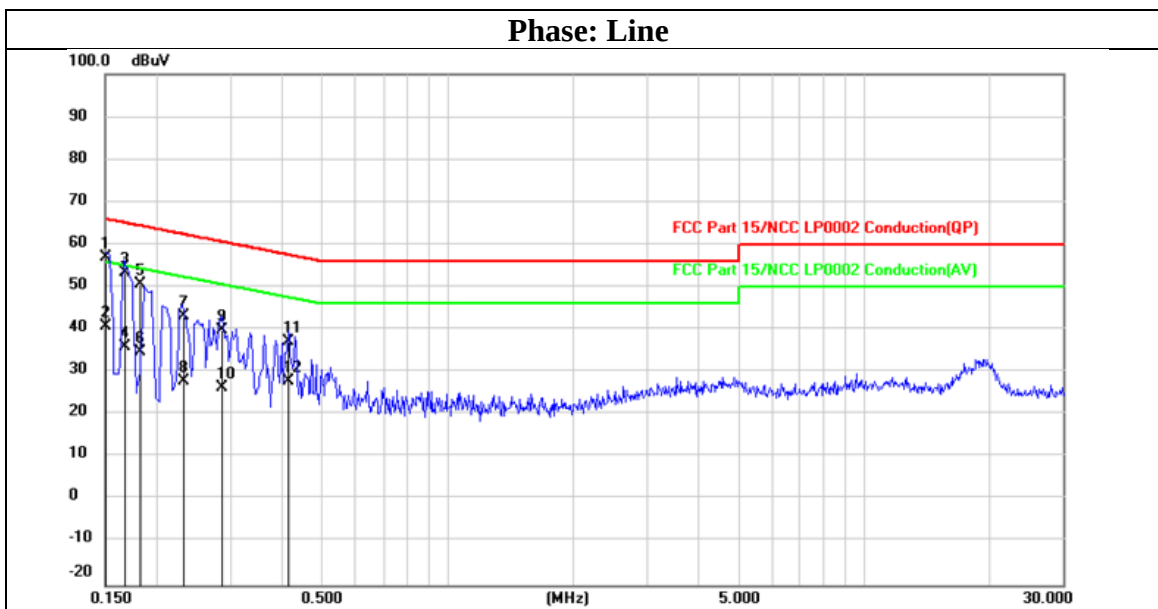
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Test Data

Mode	11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1504	37.42	19.49	56.91	65.98	-9.07	QP
2	0.1504	21.27	19.49	40.76	55.98	-15.22	AVG
3	0.1672	33.99	19.49	53.48	65.10	-11.62	QP
4	0.1672	16.44	19.49	35.93	55.10	-19.17	AVG
5	0.1822	31.07	19.49	50.56	64.38	-13.82	QP
6	0.1822	15.40	19.49	34.89	54.38	-19.49	AVG
7	0.2320	23.60	19.49	43.09	62.38	-19.29	QP
8	0.2320	8.35	19.49	27.84	52.38	-24.54	AVG
9	0.2862	20.24	19.49	39.73	60.63	-20.90	QP
10	0.2862	6.85	19.49	26.34	50.63	-24.29	AVG
11	0.4130	17.67	19.49	37.16	57.59	-20.43	QP
12	0.4130	8.44	19.49	27.93	47.59	-19.66	AVG

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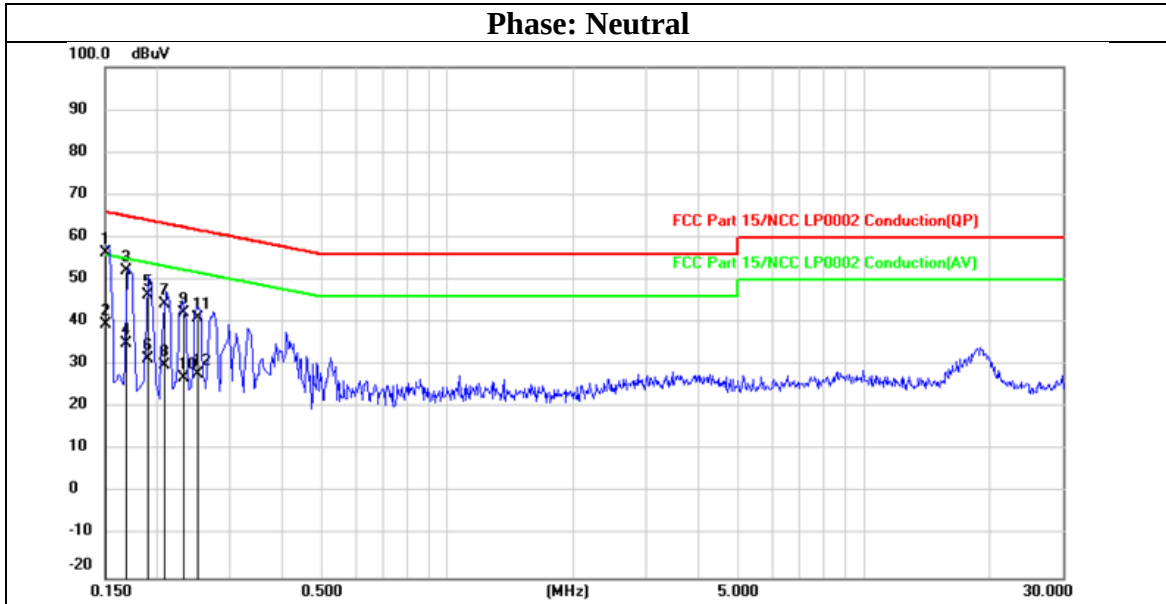
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Mode 11g_TX2437 Channel 6



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1511	36.78	19.49	56.27	65.94	-9.67	QP
2	0.1511	20.05	19.49	39.54	55.94	-16.40	AVG
3	0.1680	32.81	19.49	52.30	65.06	-12.76	QP
4	0.1680	15.65	19.49	35.14	55.06	-19.92	AVG
5	0.1904	27.01	19.49	46.50	64.02	-17.52	QP
6	0.1904	12.07	19.49	31.56	54.02	-22.46	AVG
7	0.2077	24.77	19.49	44.26	63.30	-19.04	QP
8	0.2077	10.51	19.49	30.00	53.30	-23.30	AVG
9	0.2316	22.66	19.49	42.15	62.39	-20.24	QP
10	0.2316	7.54	19.49	27.03	52.39	-25.36	AVG
11	0.2516	21.56	19.49	41.05	61.70	-20.65	QP
12	0.2516	8.49	19.49	27.98	51.70	-23.72	AVG

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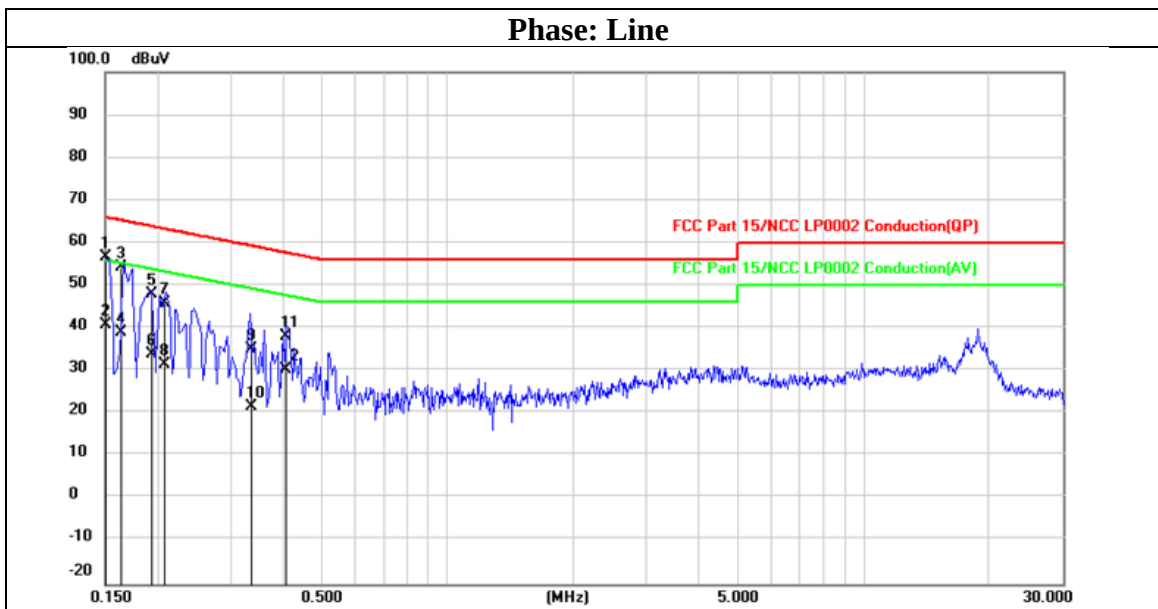
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Simultaneously Transmission Condition:

Mode	WiFi 2.4G 802.11g WiFi 5G 802.11ax20	Channel	Ch 6 Ch 149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1511	37.31	19.49	56.80	65.94	-9.14	QP
2	0.1511	21.21	19.49	40.70	55.94	-15.24	AVG
3	0.1632	34.63	19.49	54.12	65.30	-11.18	QP
4	0.1632	19.40	19.49	38.89	55.30	-16.41	AVG
5	0.1931	28.56	19.49	48.05	63.90	-15.85	QP
6	0.1931	14.22	19.49	33.71	53.90	-20.19	AVG
7	0.2079	26.21	19.49	45.70	63.29	-17.59	QP
8	0.2079	11.86	19.49	31.35	53.29	-21.94	AVG
9	0.3364	15.69	19.49	35.18	59.29	-24.11	QP
10	0.3364	1.92	19.49	21.41	49.29	-27.88	AVG
11	0.4086	18.52	19.49	38.01	57.68	-19.67	QP
12	0.4086	10.67	19.49	30.16	47.68	-17.52	AVG

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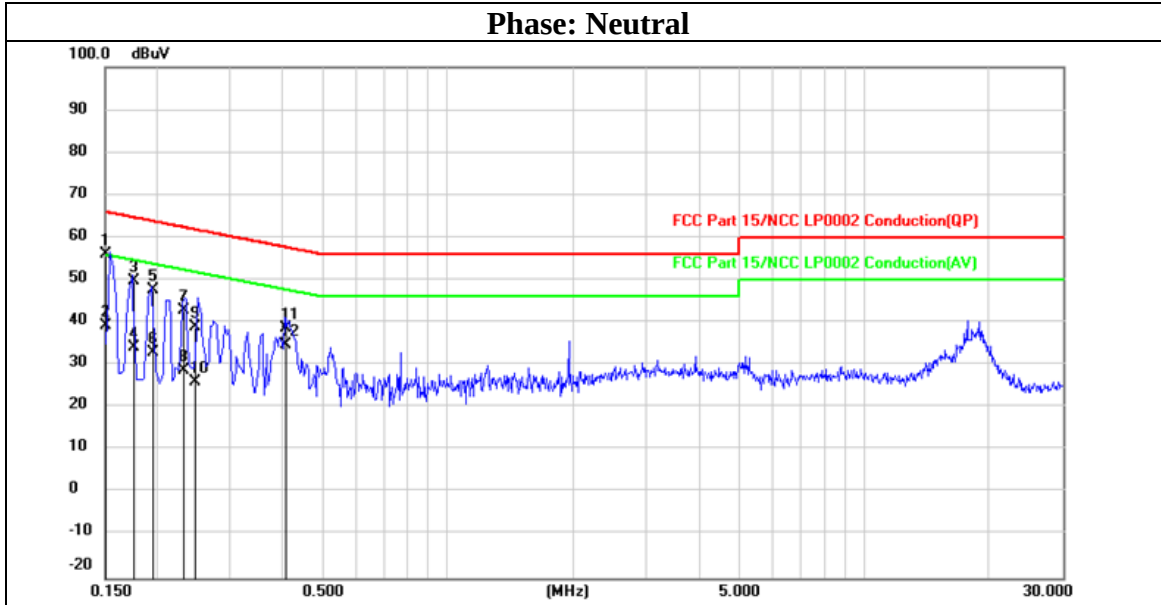
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Mode	WiFi 2.4G 802.11g WiFi 5G 802.11ax20	Channel	Ch 6 Ch 149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1507	36.62	19.49	56.11	65.96	-9.85	QP
2	0.1507	19.70	19.49	39.19	55.96	-16.77	AVG
3	0.1760	30.34	19.49	49.83	64.67	-14.84	QP
4	0.1760	14.69	19.49	34.18	54.67	-20.49	AVG
5	0.1959	28.10	19.49	47.59	63.78	-16.19	QP
6	0.1959	13.43	19.49	32.92	53.78	-20.86	AVG
7	0.2315	23.35	19.49	42.84	62.40	-19.56	QP
8	0.2315	9.29	19.49	28.78	52.40	-23.62	AVG
9	0.2462	19.47	19.49	38.96	61.88	-22.92	QP
10	0.2462	6.56	19.49	26.05	51.88	-25.83	AVG
11	0.4081	19.10	19.49	38.59	57.69	-19.10	QP
12	0.4081	15.37	19.49	34.86	47.69	-12.83	AVG

END OF REPORT

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