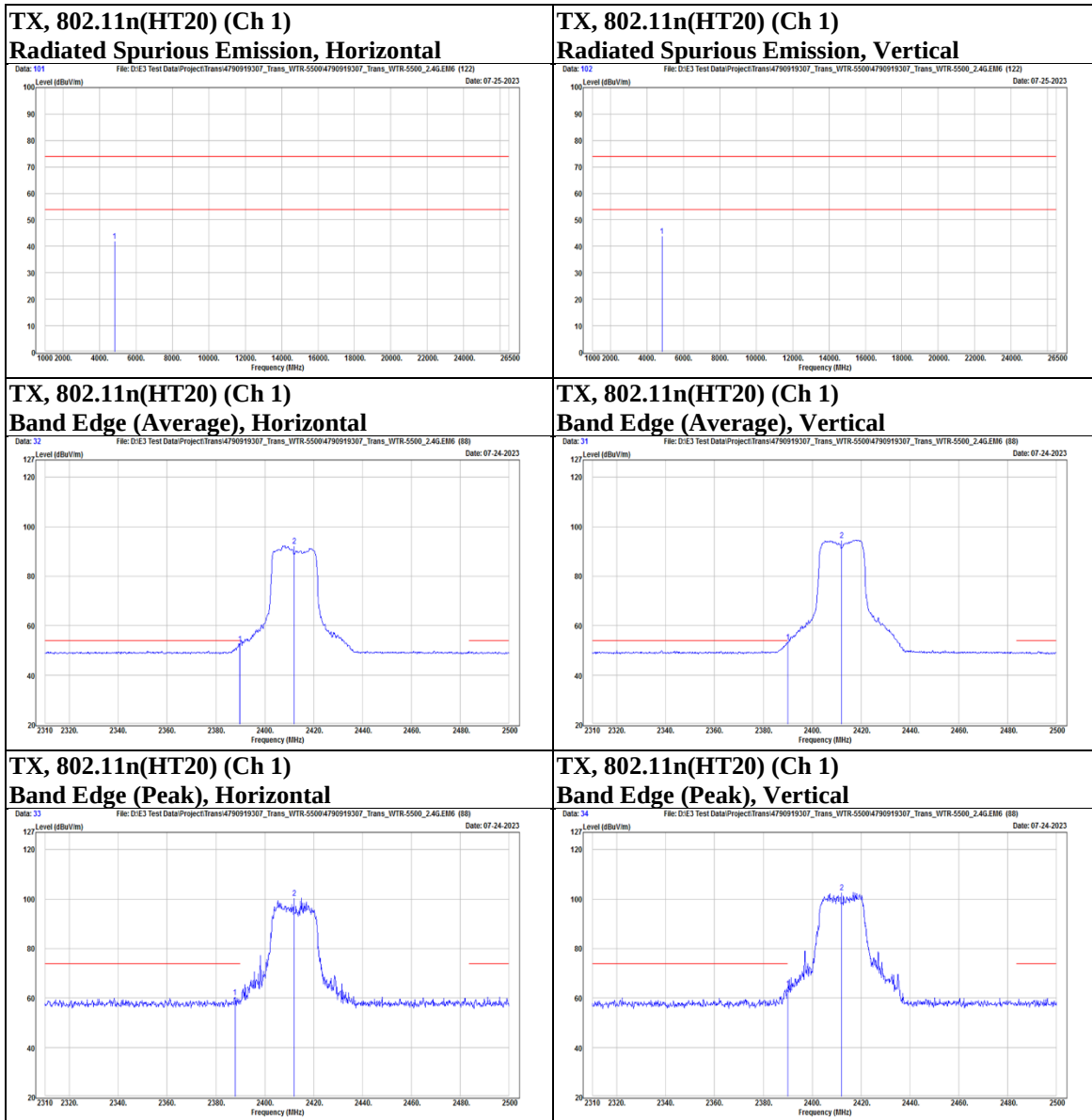




Mode	802.11n(HT20)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2363.39	41.52	18.92	60.44	74	-13.56	PK
		2377.83	30.98	18.89	49.87	54	-4.13	AVG
	@	2437	85.6	18.97	104.57	N/A	N/A	PK
	@	2437	77.62	18.97	96.59	N/A	N/A	AVG
		2484.42	31.86	18.8	50.66	54	-3.34	AVG
		2484.61	41.3	18.8	60.1	74	-13.9	PK
		4874	54.95	2.2	57.15	74	-16.85	PK
		4874	48.18	2.2	50.38	54	-3.62	AVG
Vertical		2388.09	31.39	18.87	50.26	54	-3.74	AVG
		2388.66	41.37	18.87	60.24	74	-13.76	PK
	@	2437	89.51	18.97	108.48	N/A	N/A	PK
	@	2437	82.04	18.97	101.01	N/A	N/A	AVG
		2484.23	43.84	18.81	62.65	74	-11.35	PK
		2484.42	33.55	18.8	52.35	54	-1.65	AVG
		4874	53.92	2.2	56.12	74	-17.88	PK
		4874	47.77	2.2	49.97	54	-4.03	AVG

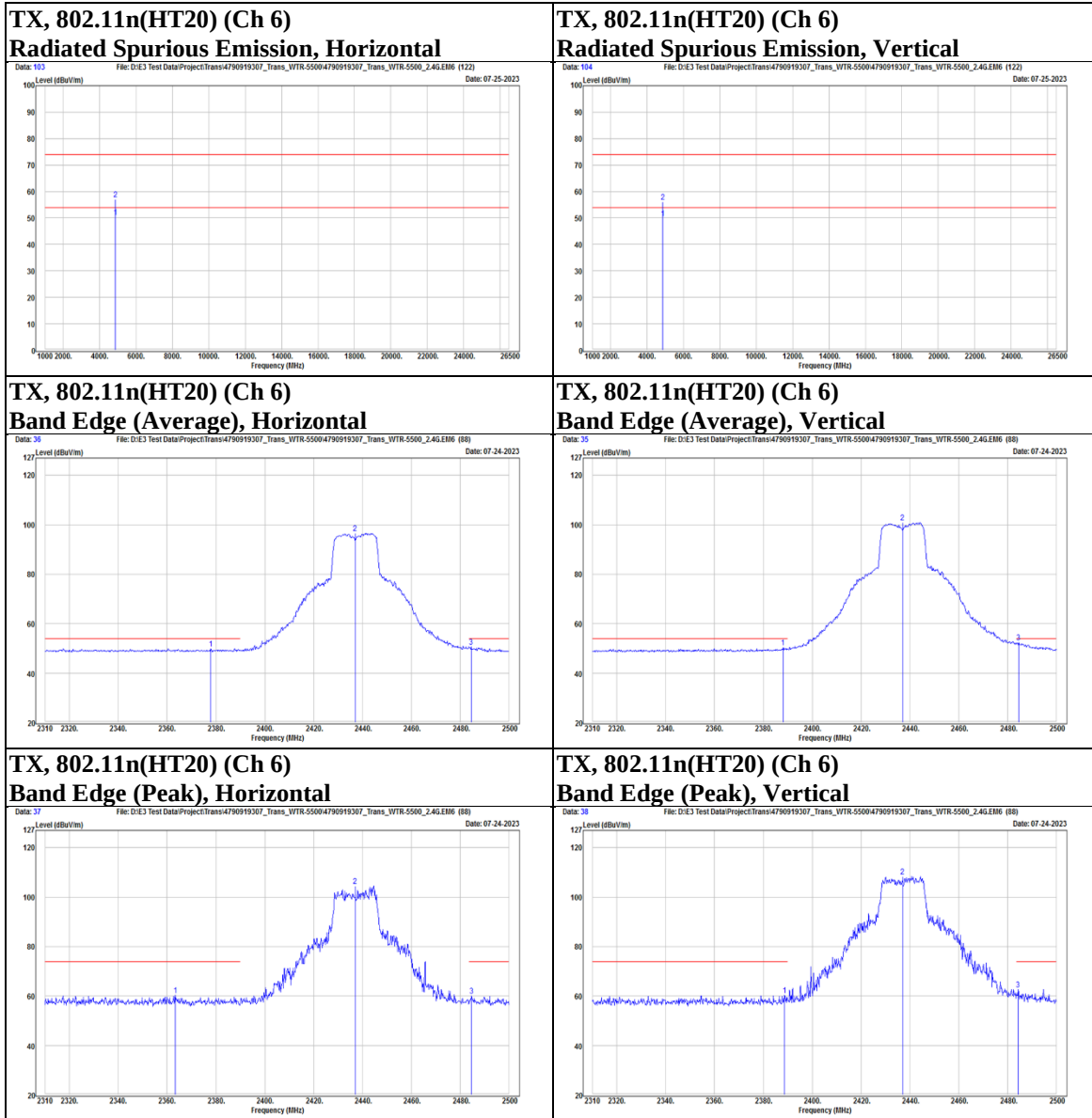
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Mode	802.11n(HT20)	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	79.78	18.95	98.73	N/A	N/A	PK
	@	2462	72.35	18.95	91.3	N/A	N/A	AVG
		2483.66	31.65	18.81	50.46	54	-3.54	AVG
		2492.21	41.96	18.76	60.72	74	-13.28	PK
	*	4924	41.35	2.25	43.6	74	-30.4	PK
Vertical	@	2462	85.08	18.95	104.03	N/A	N/A	PK
	@	2462	76.48	18.95	95.43	N/A	N/A	AVG
		2484.04	45.51	18.81	64.32	74	-9.68	PK
		2484.04	34.09	18.81	52.9	54	-1.1	AVG
	*	4924	41.1	2.25	43.35	74	-30.65	PK

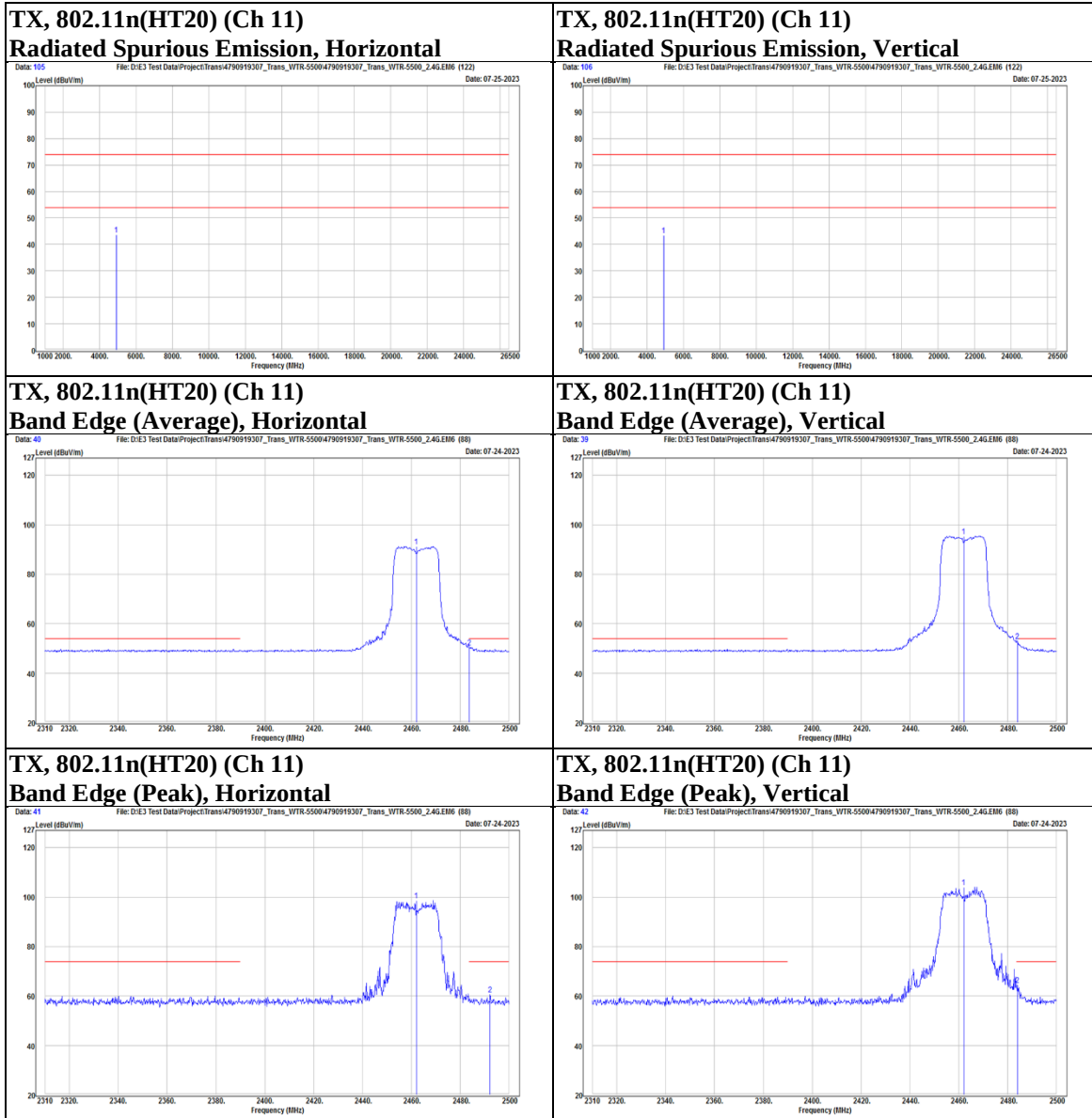
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Mode	802.11n(HT40)	Channel	3
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2384.67	45.11	18.87	63.98	74	-10.02	PK
		2386.19	33.02	18.87	51.89	54	-2.11	AVG
	@	2422	76.65	18.91	95.56	N/A	N/A	PK
	@	2422	68.11	18.91	87.02	N/A	N/A	AVG
	*	4844	38.82	2.18	41	74	-33	PK
Vertical		2385.81	47.62	18.87	66.49	74	-7.51	PK
		2389.8	34.66	18.86	53.52	54	-0.48	AVG
	@	2422	79.61	18.91	98.52	N/A	N/A	PK
	@	2422	71.56	18.91	90.47	N/A	N/A	AVG
	*	4844	38.32	2.18	40.5	74	-33.5	PK

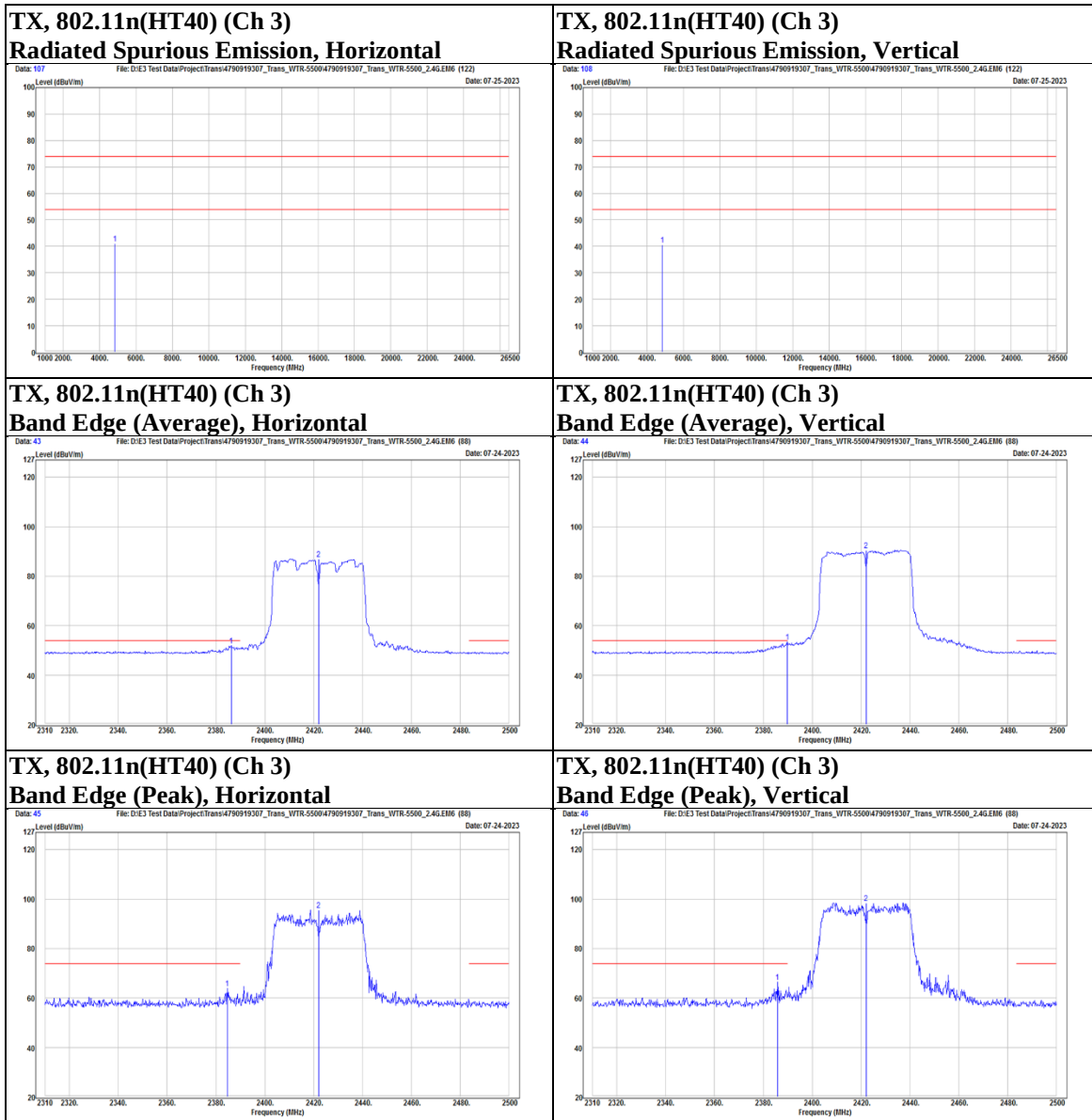
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Mode	802.11n(HT40)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2370.61	41.08	18.9	59.98	74	-14.02	PK
		2388.66	32.14	18.87	51.01	54	-2.99	AVG
	@	2437	78.5	18.97	97.47	N/A	N/A	PK
	@	2437	70.4	18.97	89.37	N/A	N/A	AVG
		2483.66	33	18.81	51.81	54	-2.19	AVG
		2485.75	41.27	18.79	60.06	74	-13.94	PK
	*	4874	39.53	2.2	41.73	74	-32.27	PK
Vertical		2389.42	33.38	18.86	52.24	54	-1.76	AVG
		2389.99	42.01	18.86	60.87	74	-13.13	PK
	@	2437	81.7	18.97	100.67	N/A	N/A	PK
	@	2437	74.58	18.97	93.55	N/A	N/A	AVG
		2484.8	34.62	18.8	53.42	54	-0.58	AVG
		2485.18	46.21	18.8	65.01	74	-8.99	PK
	*	4874	40.92	2.2	43.12	74	-30.88	PK

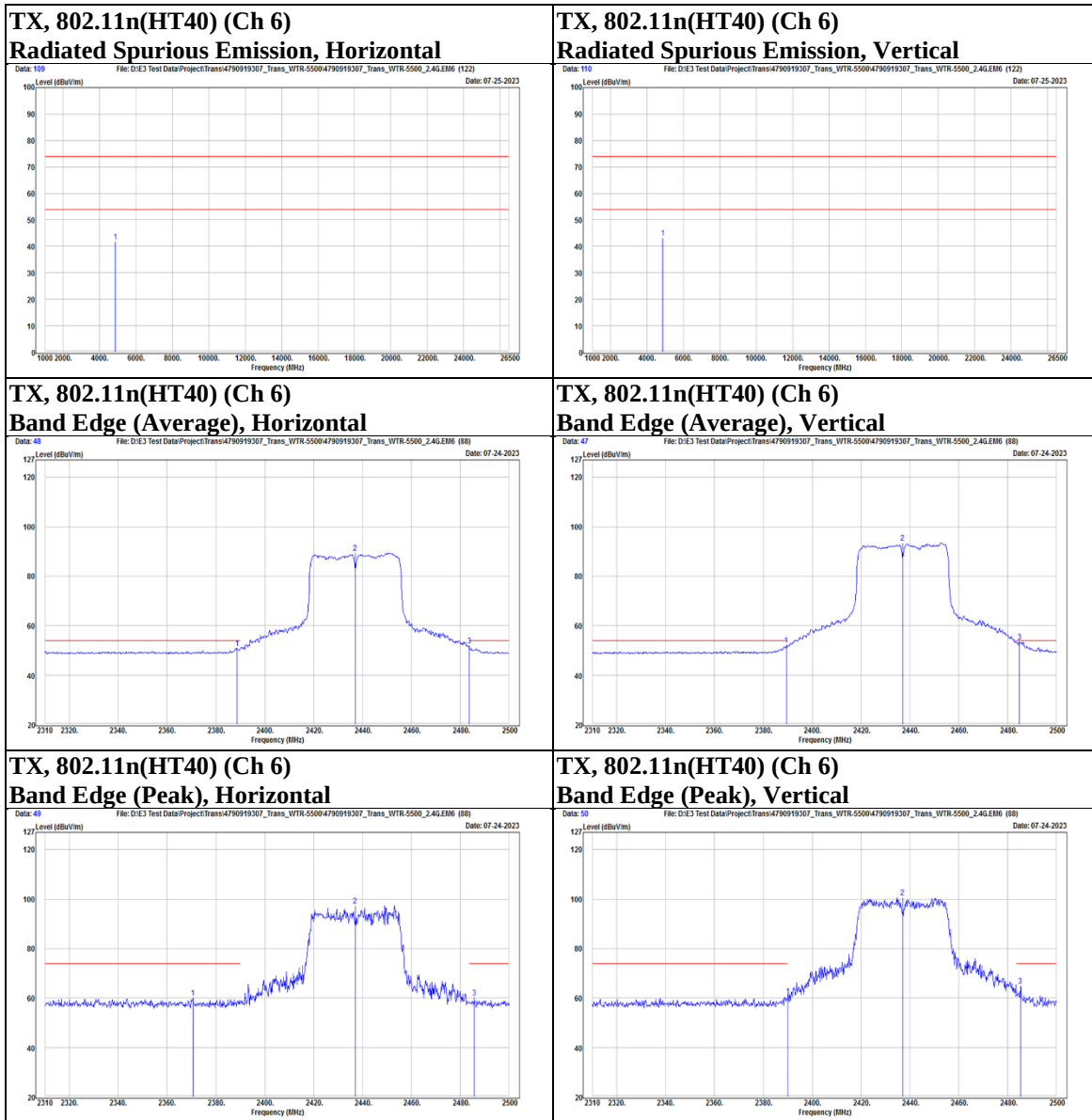
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Mode	802.11n(HT40)	Channel	9
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	76.77	19.01	95.78	N/A	N/A	PK
	@	2452	68.54	19.01	87.55	N/A	N/A	AVG
		2483.66	32.59	18.81	51.4	54	-2.6	AVG
		2487.08	44.61	18.79	63.4	74	-10.6	PK
	*	4904	37.73	2.23	39.96	74	-34.04	PK
Vertical	@	2452	81.06	19.01	100.07	N/A	N/A	PK
	@	2452	72.59	19.01	91.6	N/A	N/A	AVG
		2483.85	49.32	18.81	68.13	74	-5.87	PK
		2484.42	34.84	18.8	53.64	54	-0.36	AVG
	*	4904	37.67	2.23	39.9	74	-34.1	PK

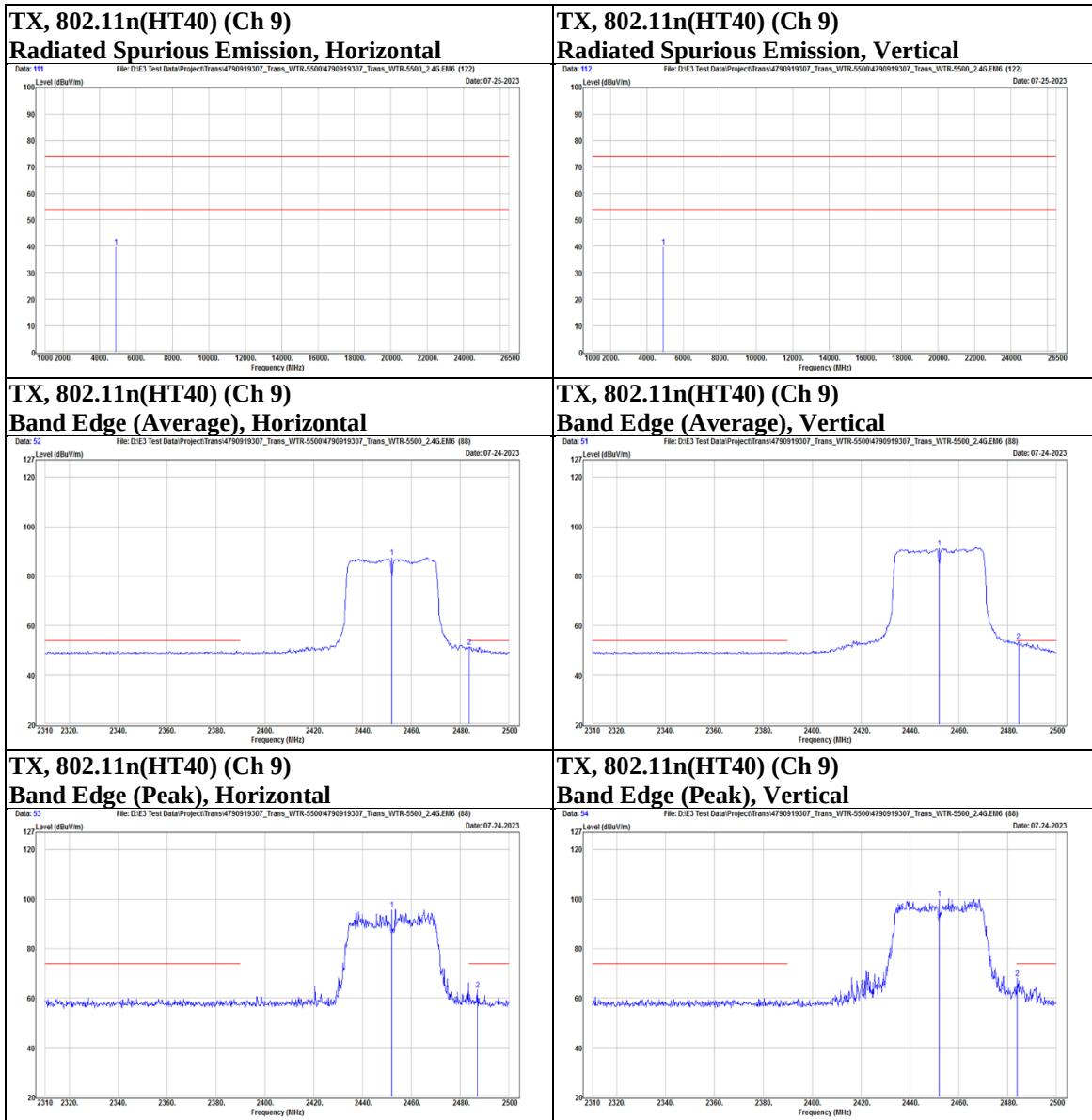
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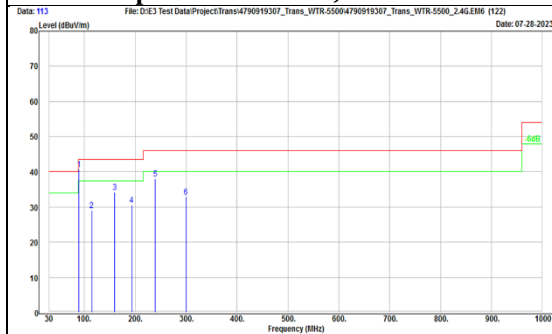
Below 1 GHz

Mode	802.11n(HT20)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		89.17	58.66	-17.91	40.75	43.5	-2.75	PK
		114.39	43.61	-14.54	29.07	43.5	-14.43	PK
		159.98	45.89	-11.78	34.11	43.5	-9.39	PK
		192.96	44.94	-14.46	30.48	43.5	-13.02	PK
		239.52	50.8	-12.83	37.97	46	-8.03	PK
		299.66	43.42	-10.66	32.76	46	-13.24	PK
Vertical		31.94	50.46	-14.46	36	40	-4	PK
		43.58	43.96	-12.82	31.14	40	-8.86	PK
		88.2	58.03	-17.79	40.24	43.5	-3.26	PK
		133.79	39.51	-13.34	26.17	43.5	-17.33	PK
		157.07	39.38	-11.79	27.59	43.5	-15.91	PK
		262.8	36.12	-11.9	24.22	46	-21.78	PK

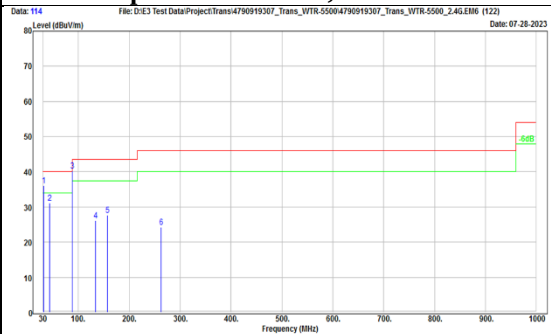
TX, 802.11n(HT20) (Ch 6)

Radiated Spurious Emission, Horizontal



TX, 802.11n(HT20) (Ch 6)

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.

9.6. 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 (dB μ V) = Reading value (dB μ V) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dB μ V) - Limit value (dB μ V).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

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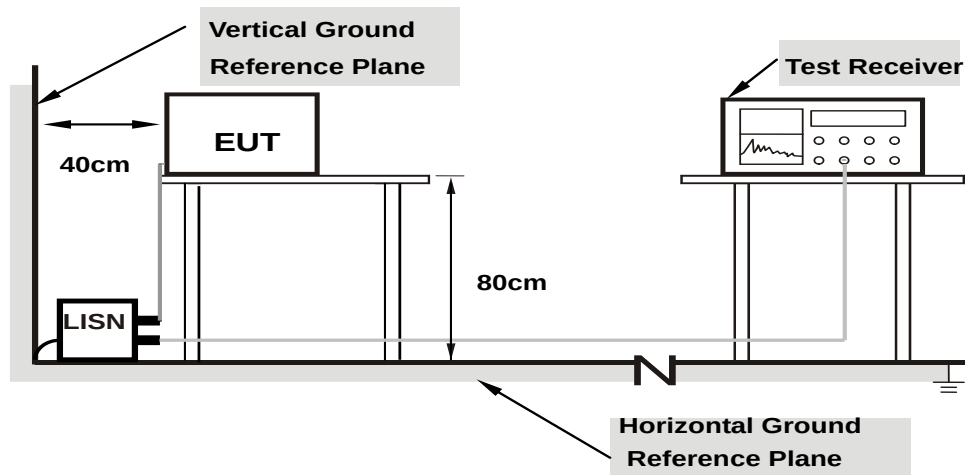
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Test Setup

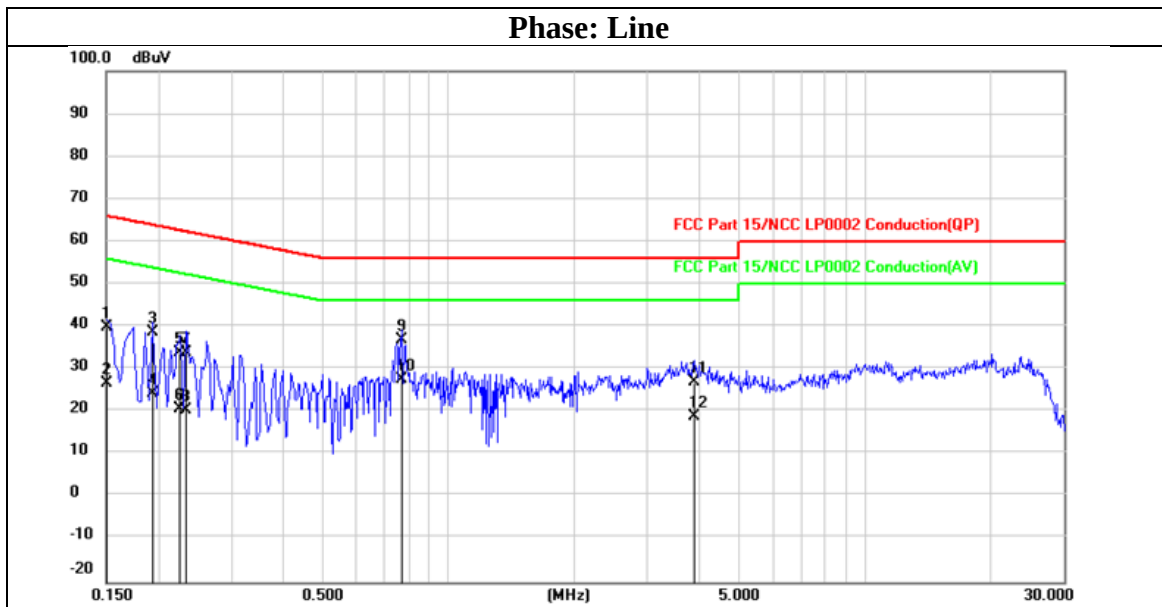


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	HT20_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	29.91	9.96	39.87	66.00	-26.13	QP
2	0.1500	16.63	9.96	26.59	56.00	-29.41	AVG
3	0.1940	28.59	9.96	38.55	63.86	-25.31	QP
4	0.1940	14.18	9.96	24.14	53.86	-29.72	AVG
5	0.2260	24.01	9.96	33.97	62.60	-28.63	QP
6	0.2260	10.73	9.96	20.69	52.60	-31.91	AVG
7	0.2340	23.77	9.96	33.73	62.31	-28.58	QP
8	0.2340	10.46	9.96	20.42	52.31	-31.89	AVG
9	0.7700	26.86	9.98	36.84	56.00	-19.16	QP
10	0.7700	17.70	9.98	27.68	46.00	-18.32	AVG
11	3.8860	17.00	10.07	27.07	56.00	-28.93	QP
12	3.8860	8.73	10.07	18.80	46.00	-27.20	AVG

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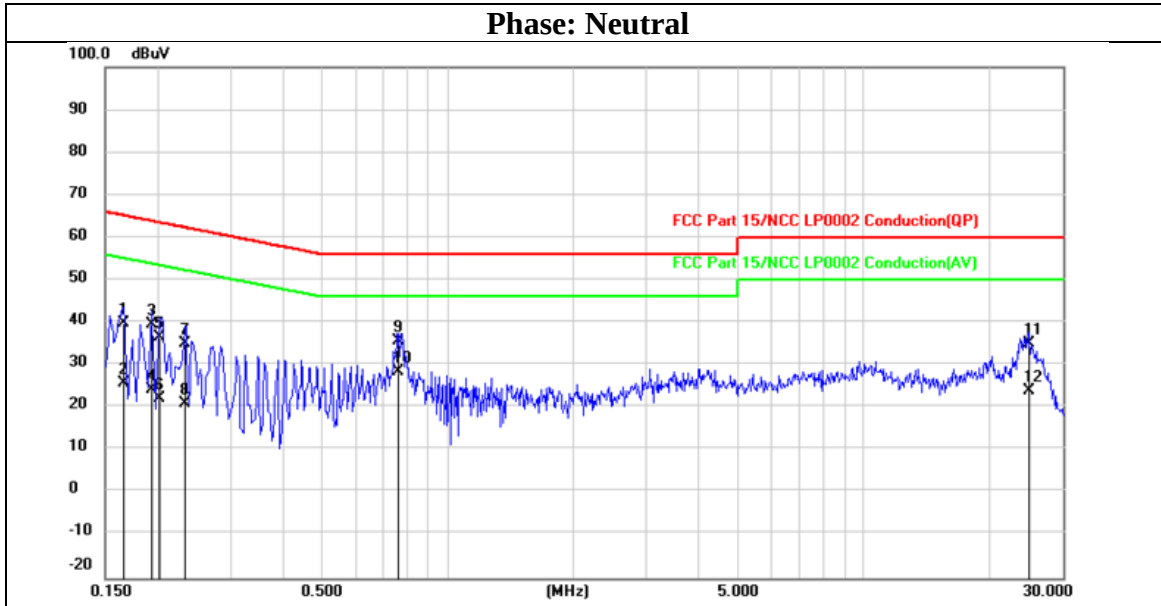
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Mode	HT20_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	29.99	9.95	39.94	65.16	-25.22	QP
2	0.1660	15.67	9.95	25.62	55.16	-29.54	AVG
3	0.1940	29.63	9.94	39.57	63.86	-24.29	QP
4	0.1940	14.27	9.94	24.21	53.86	-29.65	AVG
5	0.2020	26.55	9.94	36.49	63.53	-27.04	QP
6	0.2020	12.14	9.94	22.08	53.53	-31.45	AVG
7	0.2340	25.25	9.94	35.19	62.31	-27.12	QP
8	0.2340	11.05	9.94	20.99	52.31	-31.32	AVG
9	0.7620	25.64	9.97	35.61	56.00	-20.39	QP
10	0.7620	18.52	9.97	28.49	46.00	-17.51	AVG
11	24.8580	24.56	10.62	35.18	60.00	-24.82	QP
12	24.8580	13.42	10.62	24.04	50.00	-25.96	AVG

END OF REPORT

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