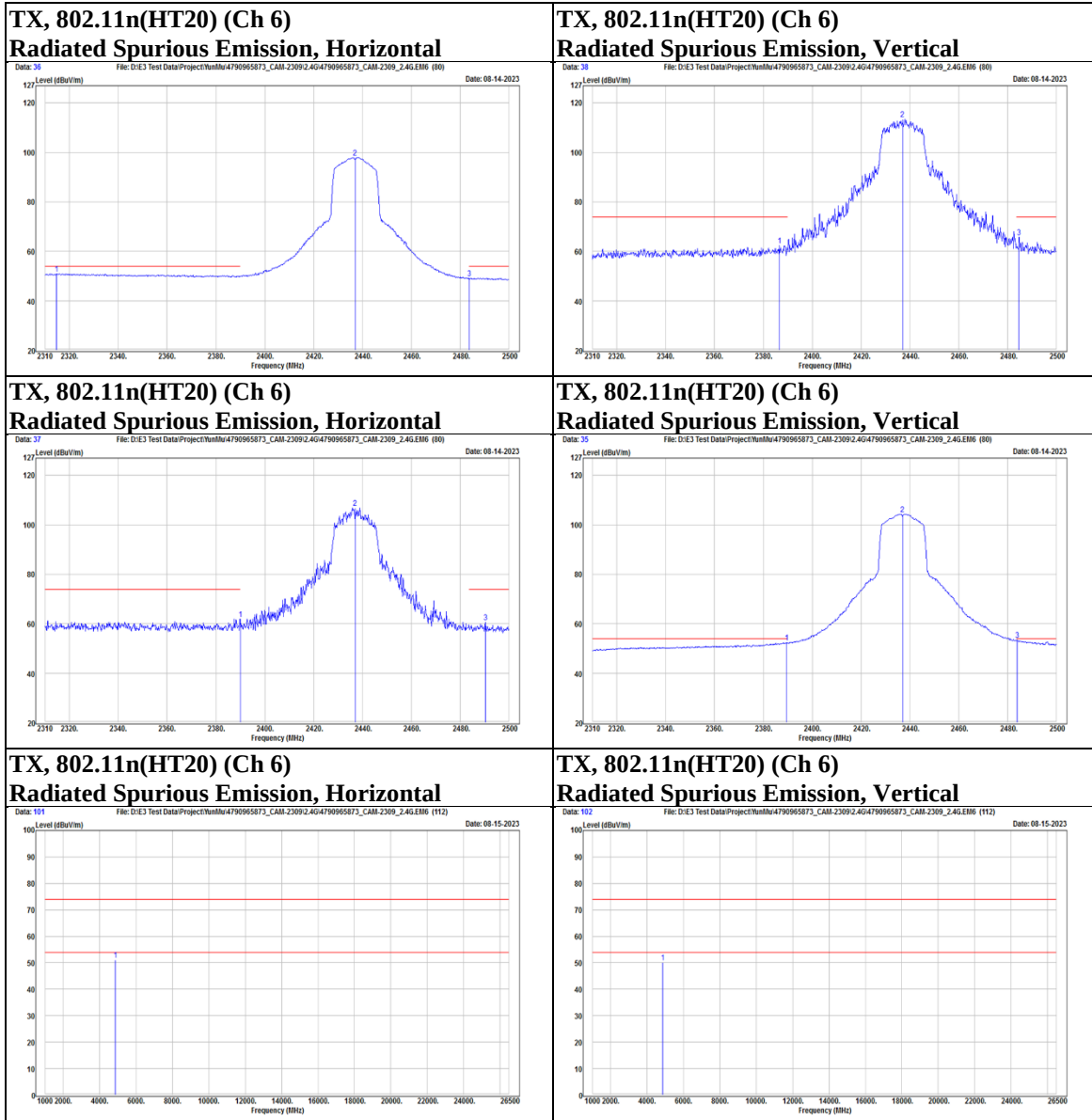




Mode	802.11n(HT20)	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	81.64	18.95	100.59	N/A	N/A	PK
	@	2462	73.58	18.95	92.53	N/A	N/A	AVG
		2483.85	41.31	18.81	60.12	74	-13.88	PK
		2485.37	30.21	18.8	49.01	54	-4.99	AVG
	*	4924	45.83	2.25	48.08	74	-25.92	PK
Vertical	@	2462	89.37	18.95	108.32	N/A	N/A	PK
	@	2462	80.96	18.95	99.91	N/A	N/A	AVG
		2484.04	33.58	18.81	52.39	54	-1.61	AVG
		2485.37	50.97	18.8	69.77	74	-4.23	PK
	*	4924	45.23	2.25	47.48	74	-26.52	PK

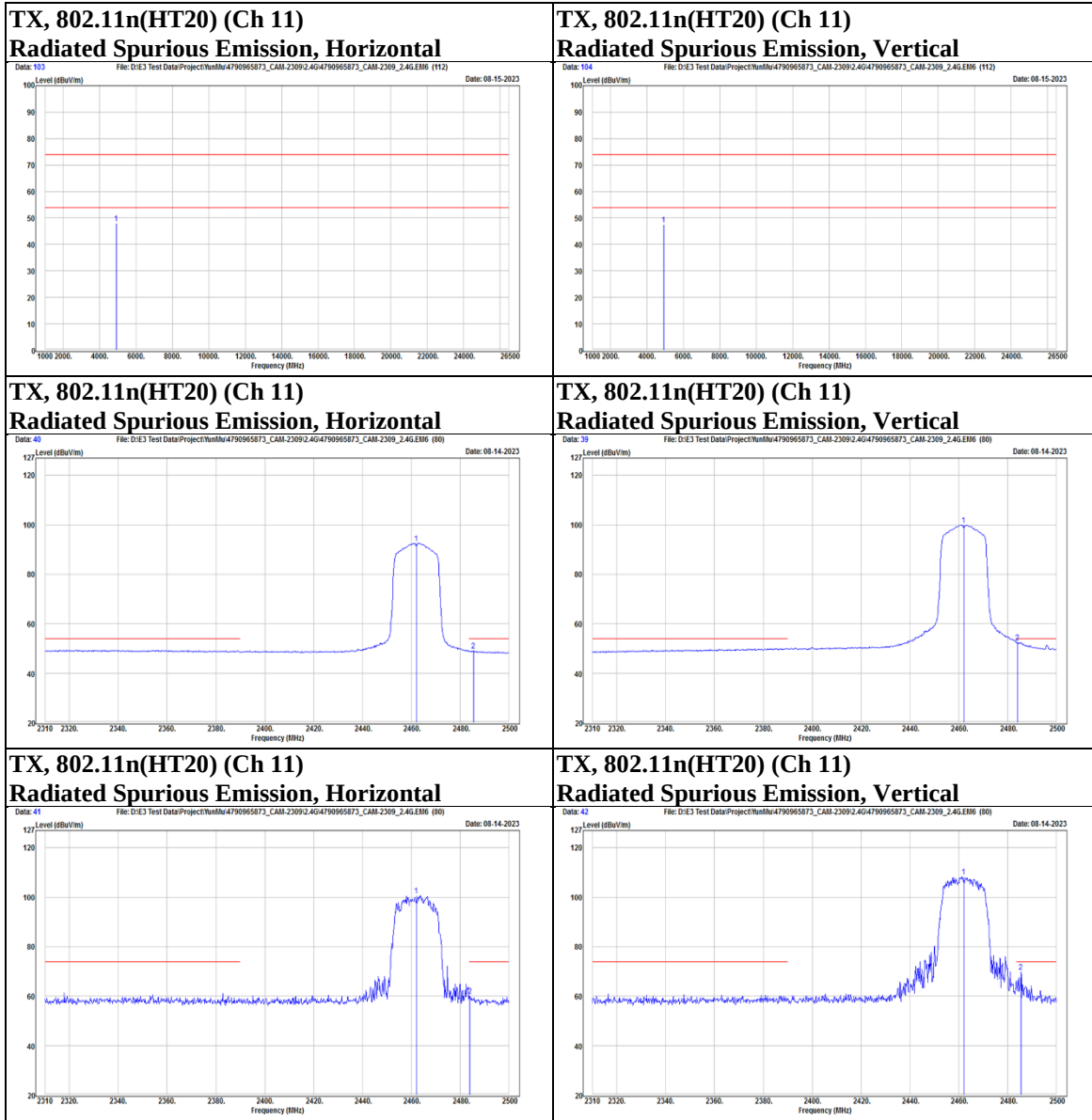
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Mode	802.11n(HT40)	Channel	3
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2386.95	49.35	18.87	68.22	74	-5.78	PK
		2389.8	33.37	18.86	52.23	54	-1.77	AVG
	@	2422	83.69	18.91	102.6	N/A	N/A	PK
	@	2422	75.91	18.91	94.82	N/A	N/A	AVG
	*	4844	40.15	2.18	42.33	74	-31.67	PK
Vertical		2384.48	51.62	18.87	70.49	74	-3.51	PK
		2388.85	34.64	18.86	53.5	54	-0.5	AVG
	@	2422	86.91	18.91	105.82	N/A	N/A	PK
	@	2422	78.44	18.91	97.35	N/A	N/A	AVG
	*	4844	44.55	2.18	46.73	74	-27.27	PK

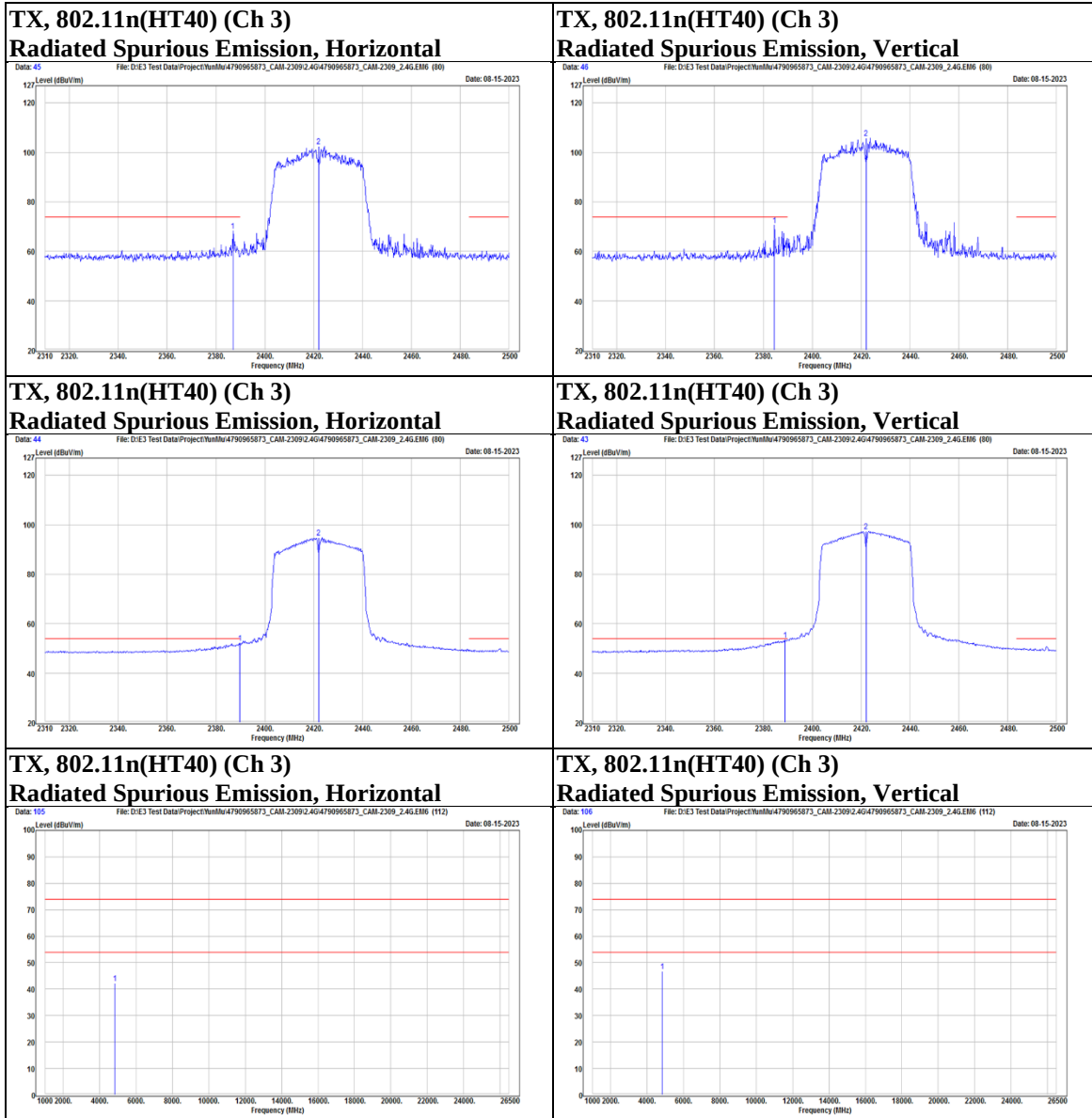
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Mode	802.11n(HT40)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2382.01	43.78	18.88	62.66	74	-11.34	PK
		2389.42	31.79	18.86	50.65	54	-3.35	AVG
	@	2437	84.71	18.97	103.68	N/A	N/A	PK
	@	2437	76.11	18.97	95.08	N/A	N/A	AVG
		2483.66	33.05	18.81	51.86	54	-2.14	AVG
		2487.46	44.43	18.79	63.22	74	-10.78	PK
	*	4874	38.87	2.2	41.07	74	-32.93	PK
Vertical		2384.29	47.08	18.87	65.95	74	-8.05	PK
		2389.61	31.46	18.86	50.32	54	-3.68	AVG
	@	2437	87.57	18.97	106.54	N/A	N/A	PK
	@	2437	73.87	18.97	92.84	N/A	N/A	AVG
		2483.85	32.64	18.81	51.45	54	-2.55	AVG
		2490.69	47.29	18.76	66.05	74	-7.95	PK
	*	4874	42.13	2.2	44.33	74	-29.67	PK

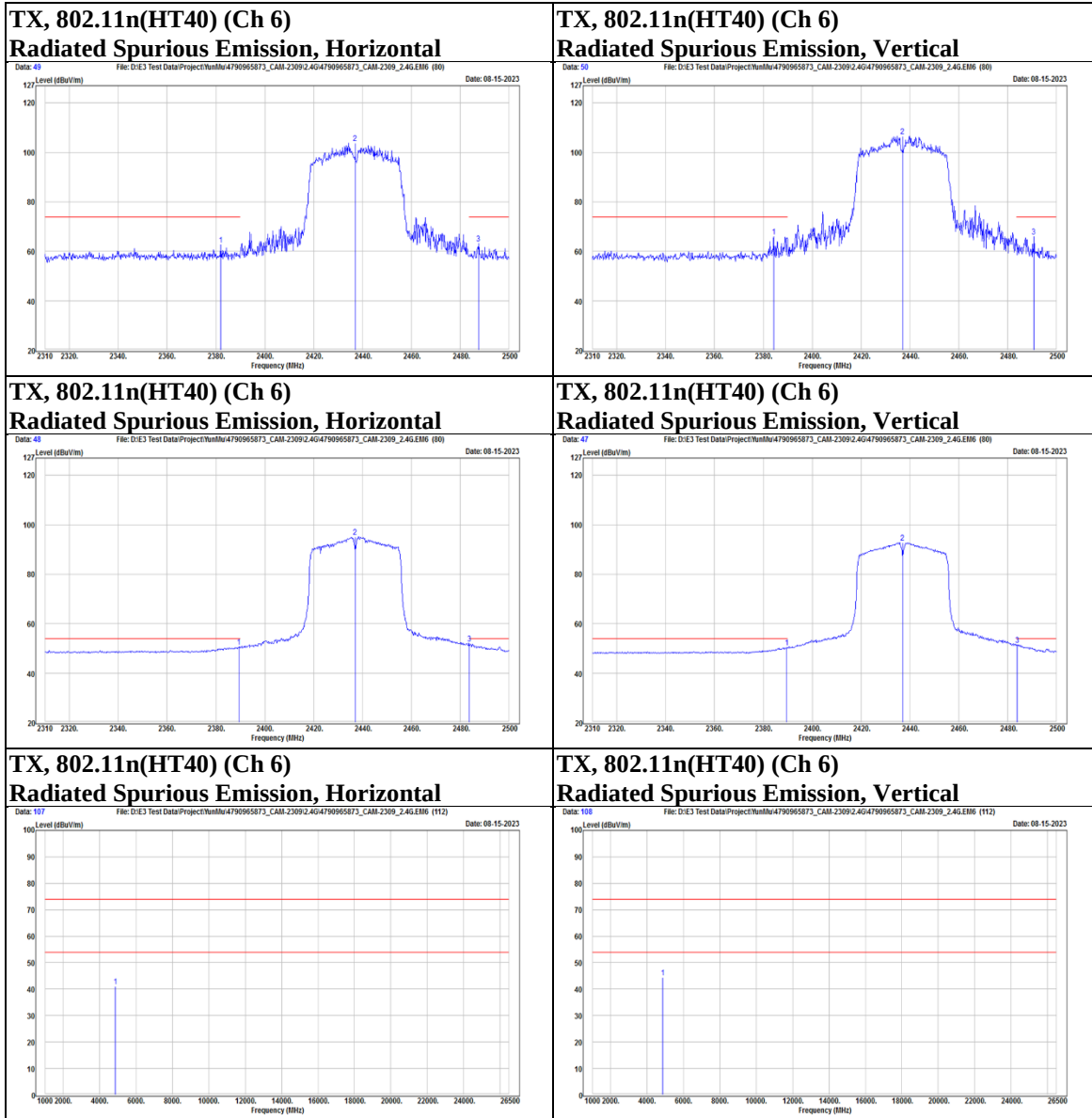
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Mode	802.11n(HT40)	Channel	9
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	83.1	19.01	102.11	N/A	N/A	PK
	@	2452	74.86	19.01	93.87	N/A	N/A	AVG
		2483.66	33.89	18.81	52.7	54	-1.3	AVG
		2483.85	44.71	18.81	63.52	74	-10.48	PK
	*	4904	41.23	2.23	43.46	74	-30.54	PK
Vertical	@	2452	85.31	19.01	104.32	N/A	N/A	PK
	@	2452	77.7	19.01	96.71	N/A	N/A	AVG
		2483.85	34.43	18.81	53.24	54	-0.76	AVG
		2487.27	49.61	18.79	68.4	74	-5.6	PK
	*	4904	41.34	2.23	43.57	74	-30.43	PK

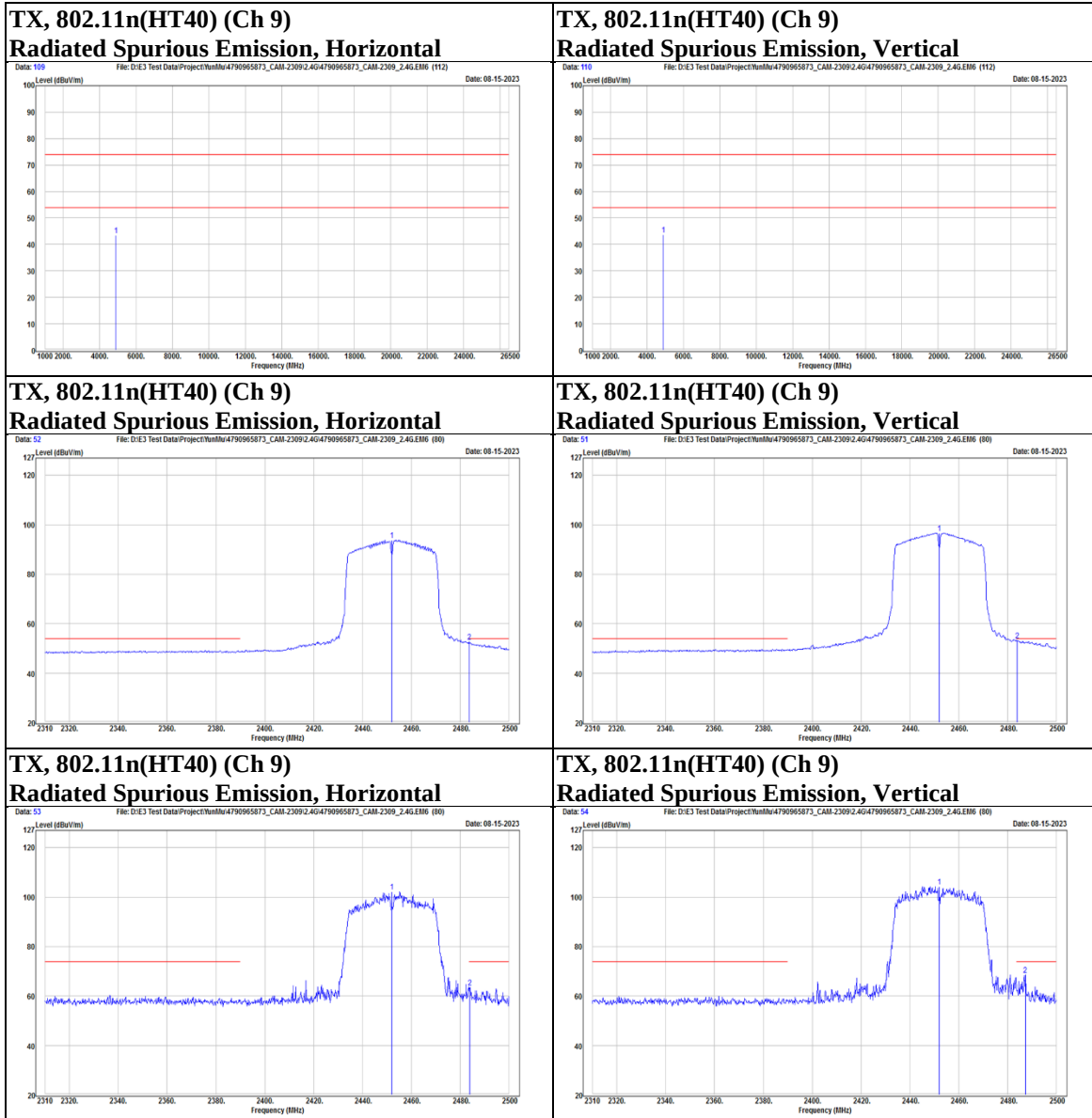
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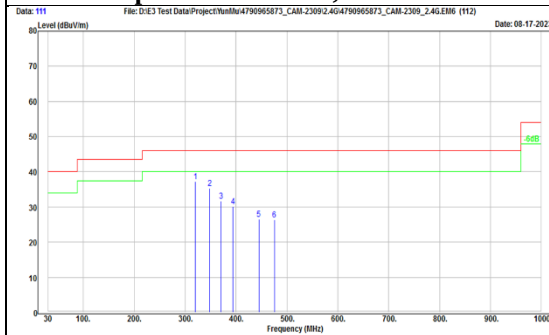
Below 1 GHz

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		320.03	47.23	-9.92	37.31	46	-8.69	PK
		348.16	44.67	-9.35	35.32	46	-10.68	PK
		370.47	40.34	-8.59	31.75	46	-14.25	PK
		393.75	38	-7.8	30.2	46	-15.8	PK
		445.16	32.67	-6.17	26.5	46	-19.5	PK
		475.23	31.99	-5.6	26.39	46	-19.61	PK
Vertical		264.74	44.55	-11.81	32.74	46	-13.26	PK
		300.63	41.57	-10.65	30.92	46	-15.08	PK
		323.91	37.04	-9.75	27.29	46	-18.71	PK
		344.28	34.1	-9.37	24.73	46	-21.27	PK
		407.33	30.7	-7.65	23.05	46	-22.95	PK
		453.89	31.12	-5.94	25.18	46	-20.82	PK

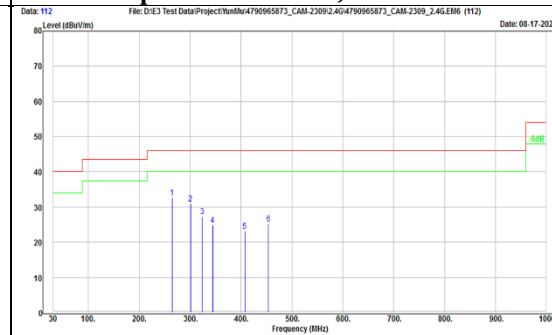
TX, 802.11n(HT40) (Ch 6)

Radiated Spurious Emission, Horizontal



TX, 802.11n(HT40) (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.

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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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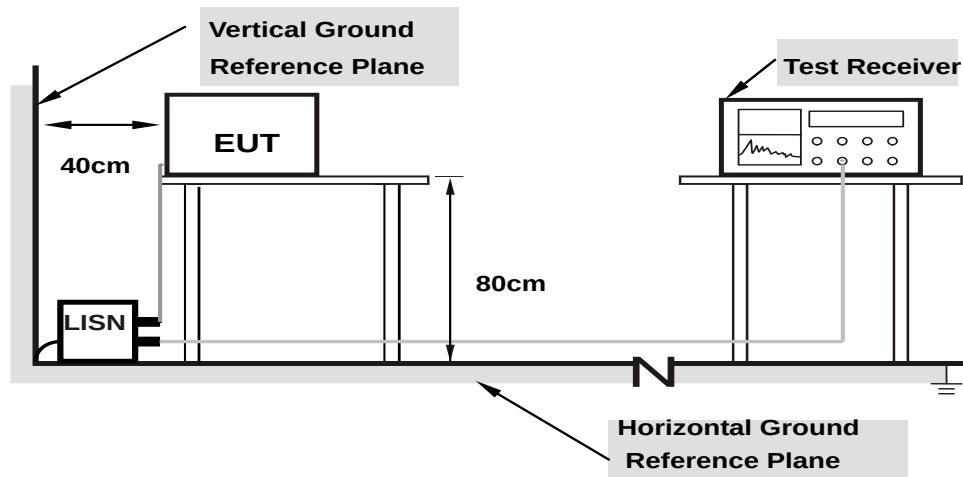
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Test Setup

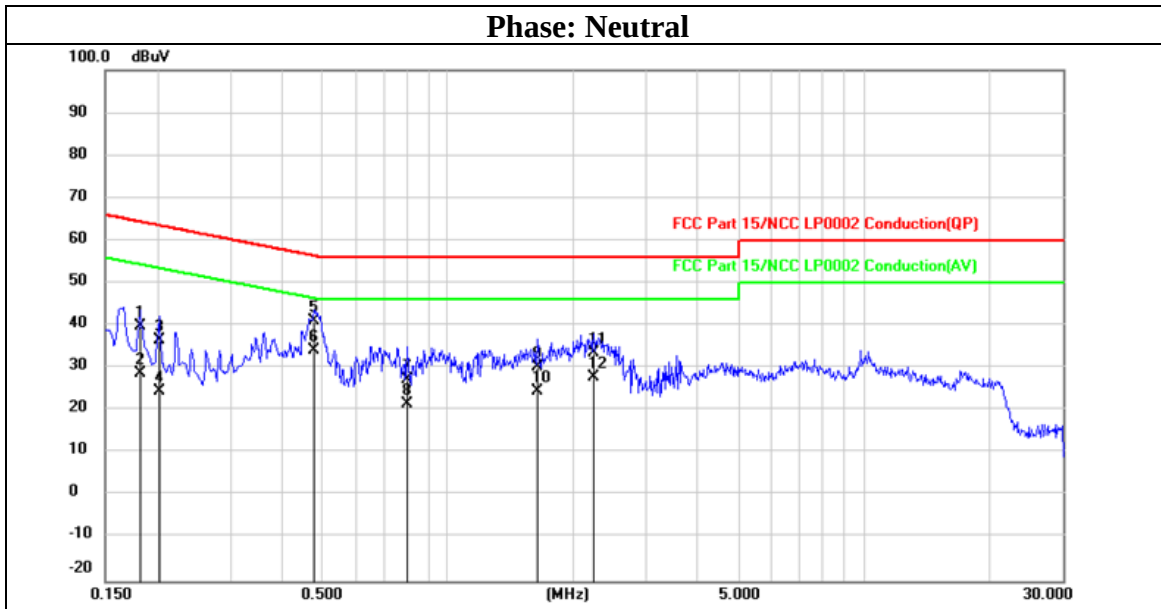


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	N40_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1819	29.90	9.94	39.84	64.40	-24.56	QP
2	0.1819	18.76	9.94	28.70	54.40	-25.70	AVG
3	0.2020	26.62	9.94	36.56	63.53	-26.97	QP
4	0.2020	14.50	9.94	24.44	53.53	-29.09	AVG
5	0.4780	31.15	9.95	41.10	56.37	-15.27	QP
6	0.4780	24.11	9.95	34.06	46.37	-12.31	AVG
7	0.7980	17.35	9.97	27.32	56.00	-28.68	QP
8	0.7980	11.52	9.97	21.49	46.00	-24.51	AVG
9	1.6420	20.30	9.99	30.29	56.00	-25.71	QP
10	1.6420	14.55	9.99	24.54	46.00	-21.46	AVG
11	2.2420	23.64	10.01	33.65	56.00	-22.35	QP
12	2.2420	17.84	10.01	27.85	46.00	-18.15	AVG

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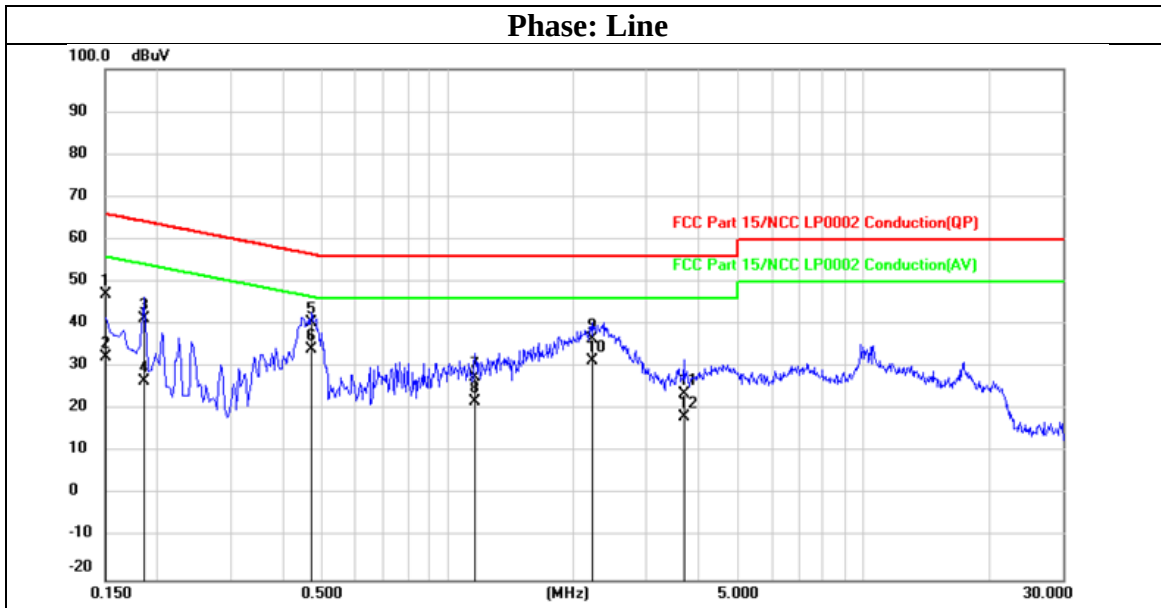
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Mode	N40_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	37.17	9.96	47.13	66.00	-18.87	QP
2	0.1500	22.49	9.96	32.45	56.00	-23.55	AVG
3	0.1860	31.47	9.96	41.43	64.21	-22.78	QP
4	0.1860	16.84	9.96	26.80	54.21	-27.41	AVG
5	0.4700	30.52	9.96	40.48	56.51	-16.03	QP
6	0.4700	24.18	9.96	34.14	46.51	-12.37	AVG
7	1.1620	17.68	9.98	27.66	56.00	-28.34	QP
8	1.1620	11.95	9.98	21.93	46.00	-24.07	AVG
9	2.2300	26.55	10.02	36.57	56.00	-19.43	QP
10	2.2300	21.29	10.02	31.31	46.00	-14.69	AVG
11	3.6900	13.58	10.07	23.65	56.00	-32.35	QP
12	3.6900	8.17	10.07	18.24	46.00	-27.76	AVG

END OF REPORT

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