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FCC ID : RYK-WUBT239ACND

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	44.68	6.1	50.78	74	-23.22	PK
		2389.99	35.7	6.1	41.8	54	-12.2	AVG
	@	2412	97.17	6.13	103.3	N/A	N/A	PK
	@	2412	91.89	6.13	98.02	N/A	N/A	AVG
	*	4824	35.84	2.55	38.39	74	-35.61	PK
Vertical		2389.23	42.33	6.1	48.43	74	-25.57	PK
		2389.99	33.58	6.1	39.68	54	-14.32	AVG
	@	2412	96.86	6.13	102.99	N/A	N/A	PK
	@	2412	91.44	6.13	97.57	N/A	N/A	AVG
	*	4824	35.27	2.55	37.82	74	-36.18	PK

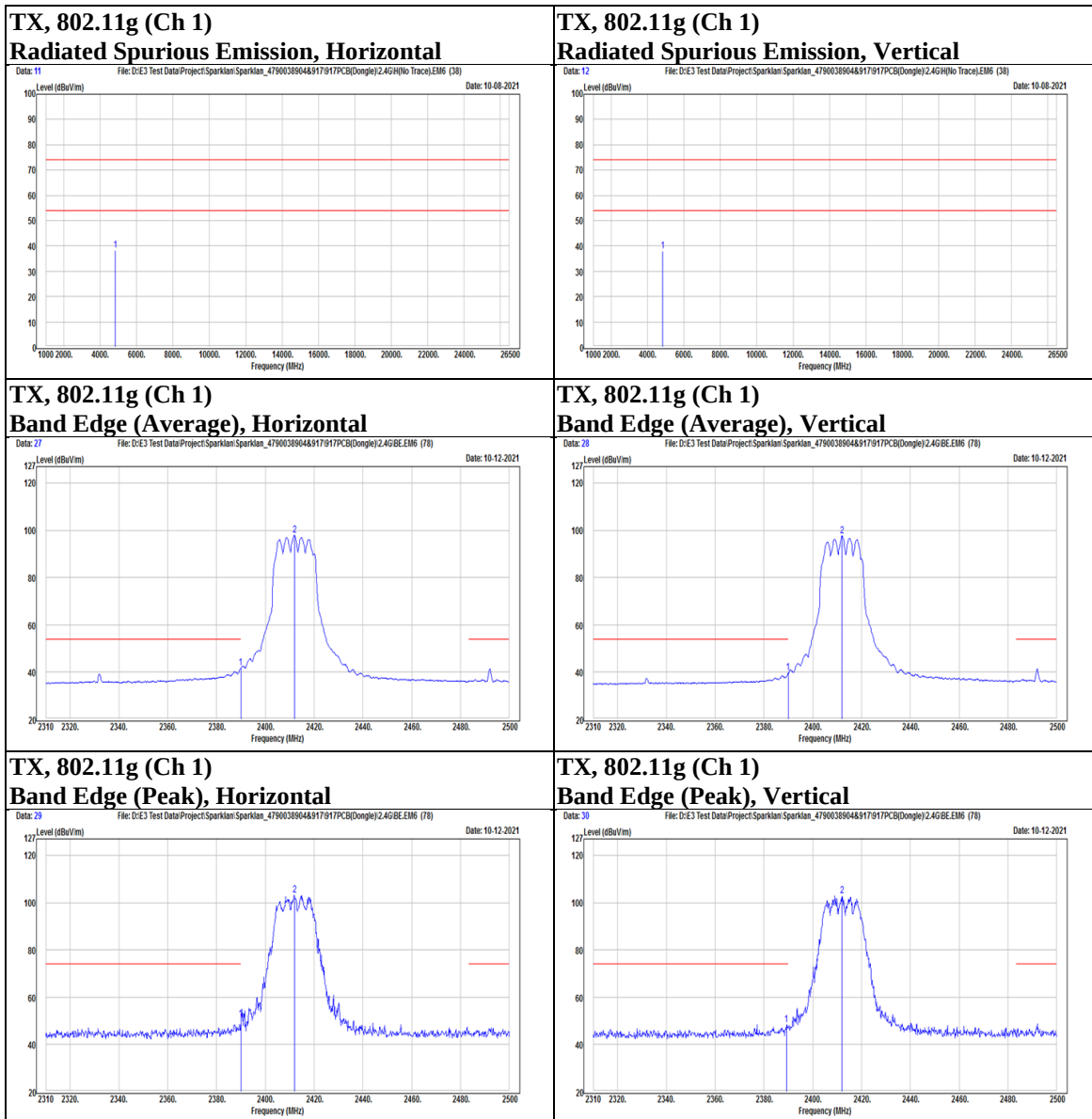
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Doc No: 17-EM-F0876 / 6.0





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Mode	802.11g	Channel	2
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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	51.03	6.1	57.13	74	-16.87	PK
		2389.99	38.72	6.1	44.82	54	-9.18	AVG
	@	2417	101.15	6.13	107.28	N/A	N/A	PK
	@	2417	94.63	6.13	100.76	N/A	N/A	AVG
	*	4834	35.04	2.61	37.65	74	-36.35	PK
Vertical		2389.8	44.73	6.1	50.83	74	-23.17	PK
		2389.99	35.45	6.1	41.55	54	-12.45	AVG
	@	2417	100.57	6.13	106.7	N/A	N/A	PK
	@	2417	93.41	6.13	99.54	N/A	N/A	AVG
	*	4834	34.67	2.61	37.28	74	-36.72	PK

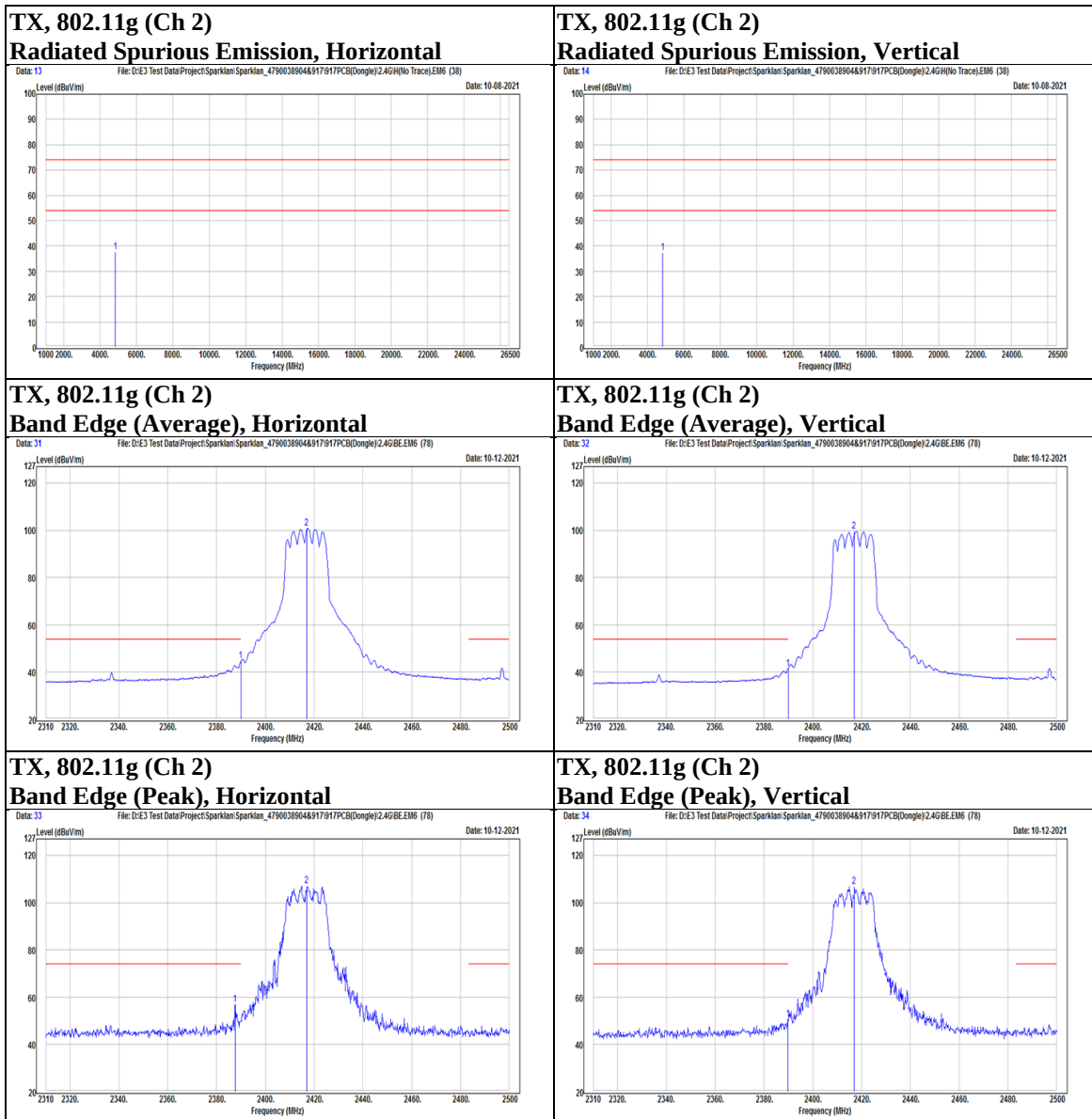
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Mode	802.11g	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2387.52	46.34	6.1	52.44	74	-21.56	PK
		2389.99	35.59	6.1	41.69	54	-12.31	AVG
	@	2437	105.33	6.12	111.45	N/A	N/A	PK
	@	2437	98.76	6.12	104.88	N/A	N/A	AVG
		2483.66	35.89	6.1	41.99	54	-12.01	AVG
		2487.84	43.46	6.1	49.56	74	-24.44	PK
	*	4874	36.14	2.66	38.8	74	-35.2	PK
Vertical		2388.47	43.66	6.1	49.76	74	-24.24	PK
		2389.42	33.91	6.1	40.01	54	-13.99	AVG
	@	2437	106.41	6.12	112.53	N/A	N/A	PK
	@	2437	98.75	6.12	104.87	N/A	N/A	AVG
		2483.85	36	6.1	42.1	54	-11.9	AVG
		2484.99	43.72	6.1	49.82	74	-24.18	PK
	*	4874	35.59	2.66	38.25	74	-35.75	PK
	*	7311	41.71	10.62	52.33	74	-21.67	PK

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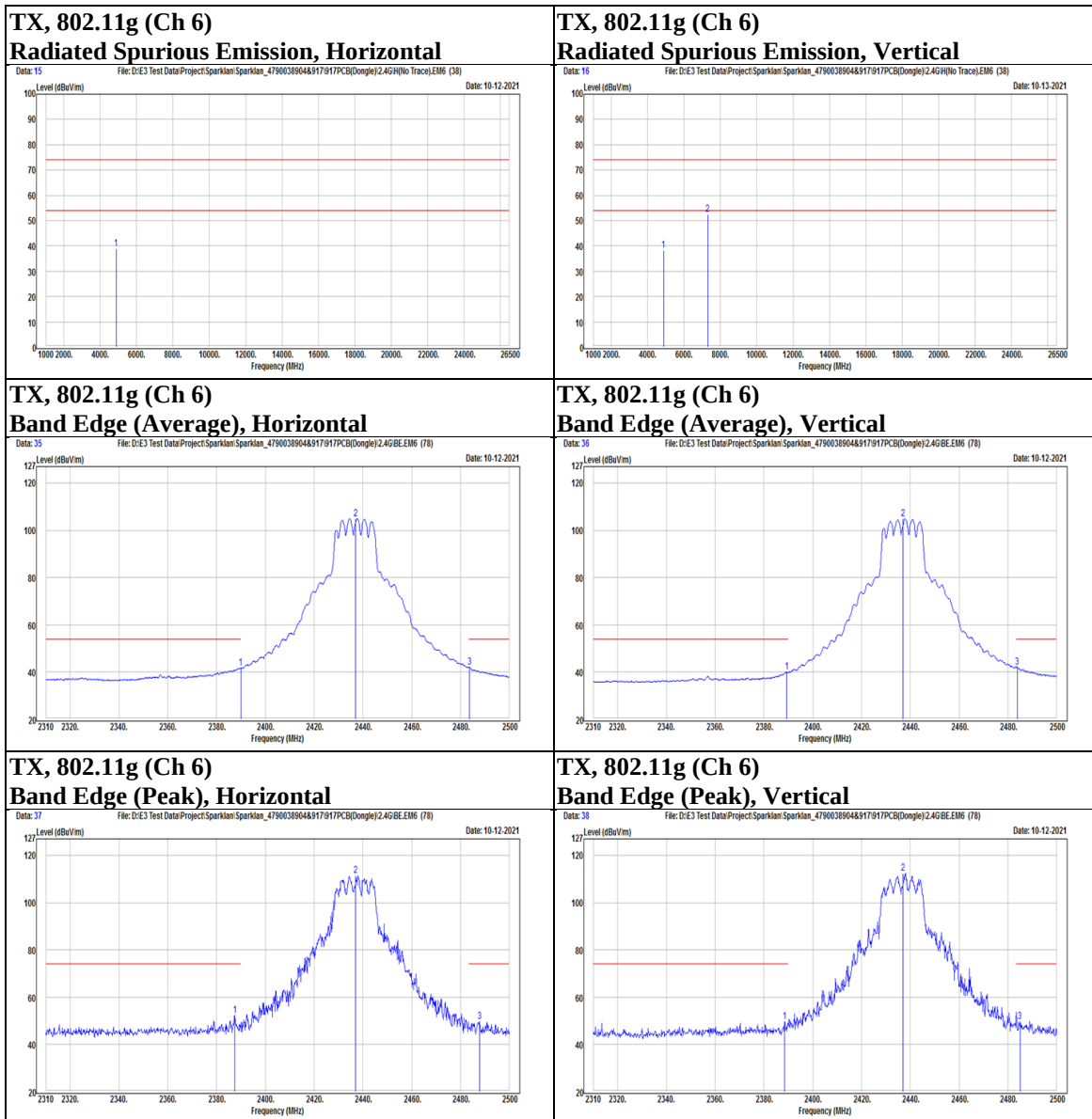
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Mode	802.11g	Channel	10
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2457	99.77	6.12	105.89	N/A	N/A	PK
	@	2457	93.61	6.12	99.73	N/A	N/A	AVG
		2484.61	34.71	6.1	40.81	54	-13.19	AVG
		2486.13	43.08	6.1	49.18	74	-24.82	PK
	*	4914	36.08	2.63	38.71	74	-35.29	PK
Vertical	@	2457	101.77	6.12	107.89	N/A	N/A	PK
	@	2457	94.05	6.12	100.17	N/A	N/A	AVG
		2483.66	44.58	6.1	50.68	74	-23.32	PK
		2484.61	35.5	6.1	41.6	54	-12.4	AVG
	*	4914	36.51	2.63	39.14	74	-34.86	PK

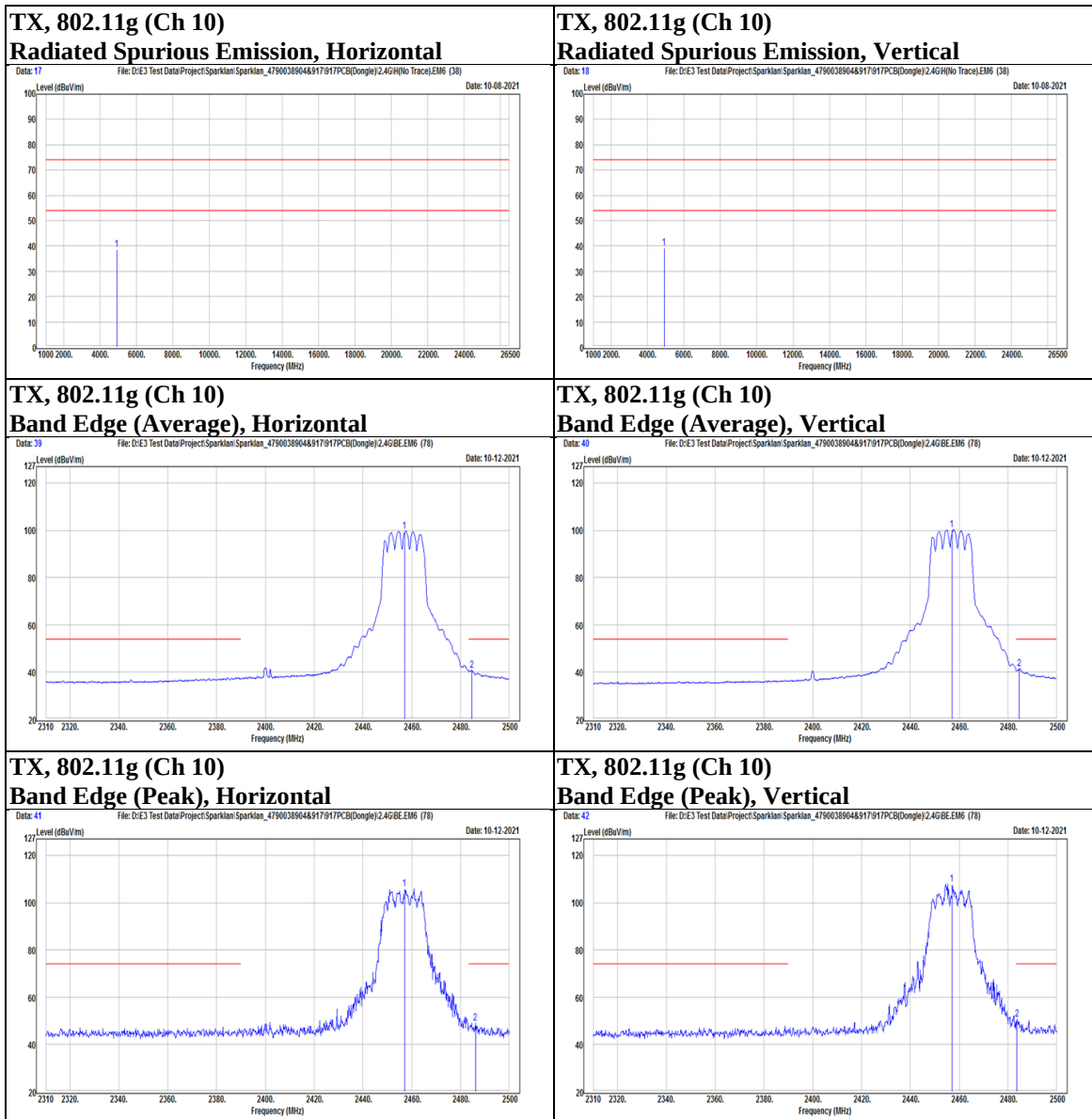
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Mode	802.11g	Channel	11
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2462	97.96	6.12	104.08	N/A	N/A	PK
	@	2462	90.58	6.12	96.7	N/A	N/A	AVG
		2483.66	33.44	6.1	39.54	54	-14.46	AVG
		2484.04	42.29	6.1	48.39	74	-25.61	PK
	*	4924	35.72	2.61	38.33	74	-35.67	PK
Vertical	@	2462	97.7	6.12	103.82	N/A	N/A	PK
	@	2462	90.62	6.12	96.74	N/A	N/A	AVG
		2483.66	33.88	6.1	39.98	54	-14.02	AVG
		2494.87	40.99	6.1	47.09	74	-26.91	PK
	*	4924	35.66	2.61	38.27	74	-35.73	PK

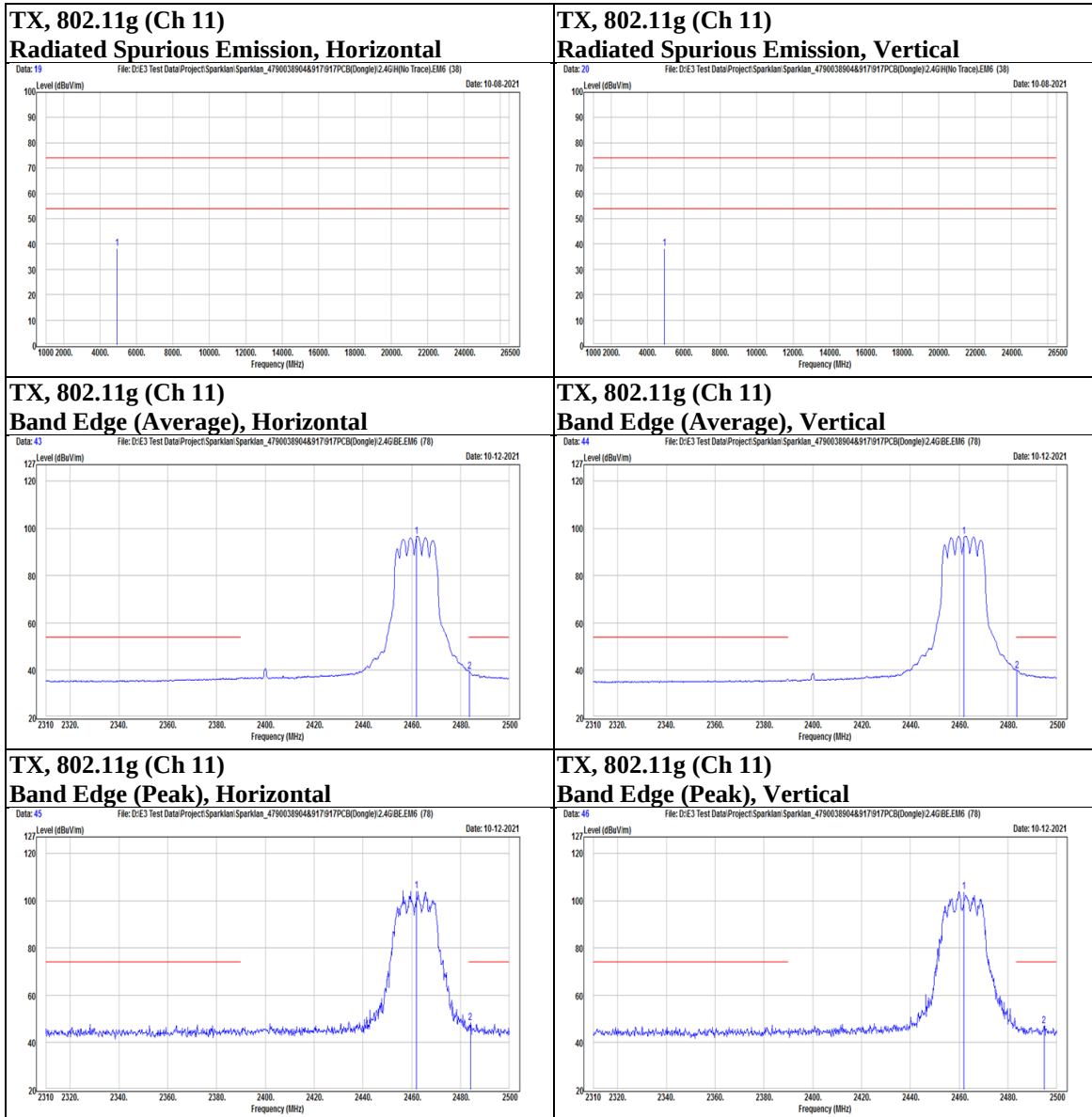
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Mode	802.11n(HT20)	Channel	1
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2388.47	31.93	6.1	38.03	54	-15.97	AVG
		2389.8	41.64	6.1	47.74	74	-26.26	PK
	@	2412	97.39	6.13	103.52	N/A	N/A	PK
	@	2412	89.41	6.13	95.54	N/A	N/A	AVG
	*	4824	36.28	2.55	38.83	74	-35.17	PK
Vertical		2351.42	41.54	6.03	47.57	74	-26.43	PK
		2388.85	31.02	6.1	37.12	54	-16.88	AVG
	@	2412	95.77	6.13	101.9	N/A	N/A	PK
	@	2412	88.29	6.13	94.42	N/A	N/A	AVG
	*	4824	35.81	2.55	38.36	74	-35.64	PK

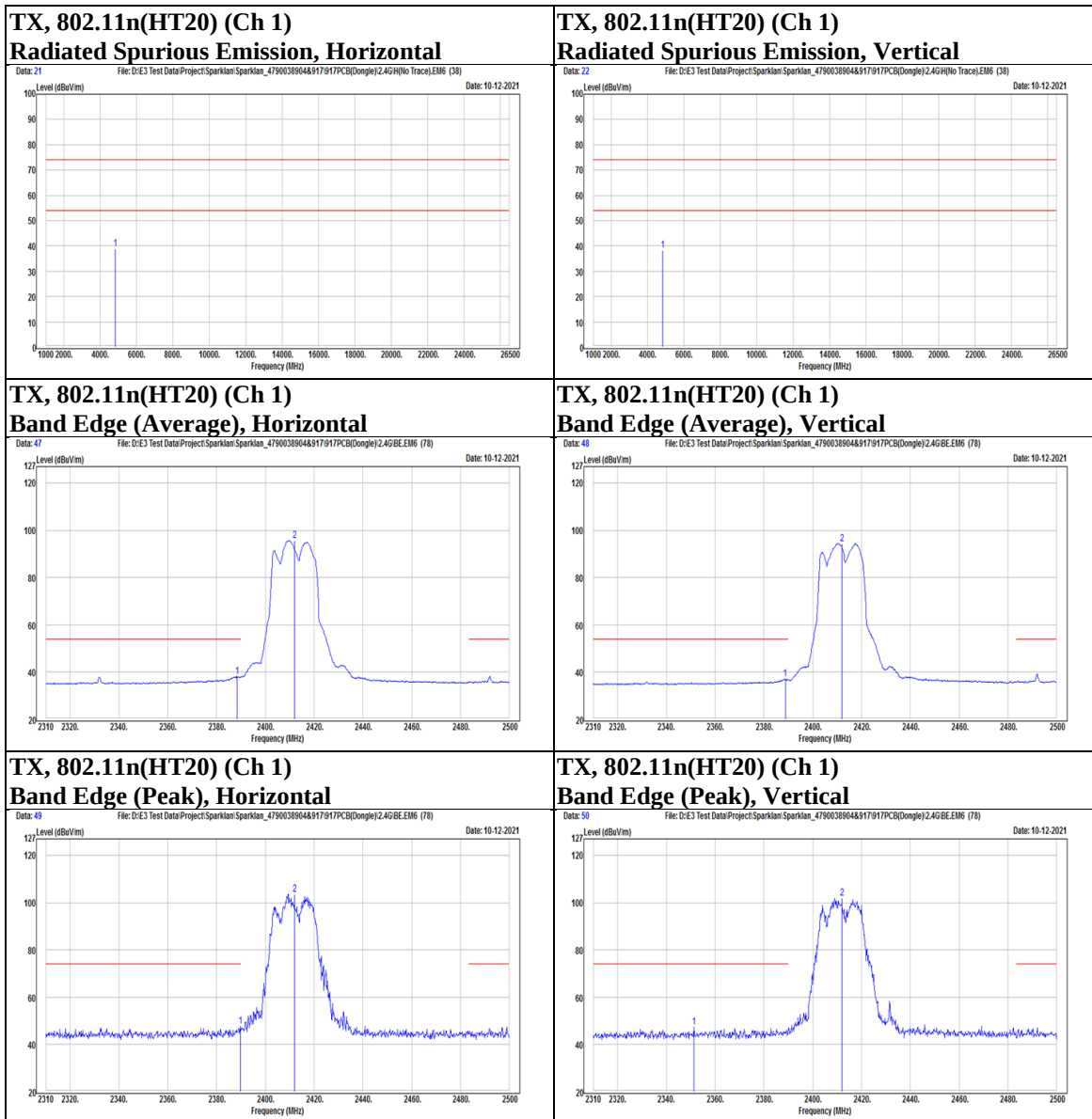
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Mode	802.11n(HT20)	Channel	2
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2388.47	50.73	6.1	56.83	74	-17.17	PK
		2389.99	38.28	6.1	44.38	54	-9.62	AVG
	@	2417	101.63	6.13	107.76	N/A	N/A	PK
	@	2417	94.3	6.13	100.43	N/A	N/A	AVG
	*	4834	35.84	2.61	38.45	74	-35.55	PK
Vertical		2389.61	46.6	6.1	52.7	74	-21.3	PK
		2389.99	36.41	6.1	42.51	54	-11.49	AVG
	@	2417	101.62	6.13	107.75	N/A	N/A	PK
	@	2417	93.52	6.13	99.65	N/A	N/A	AVG
	*	4834	35.35	2.61	37.96	74	-36.04	PK

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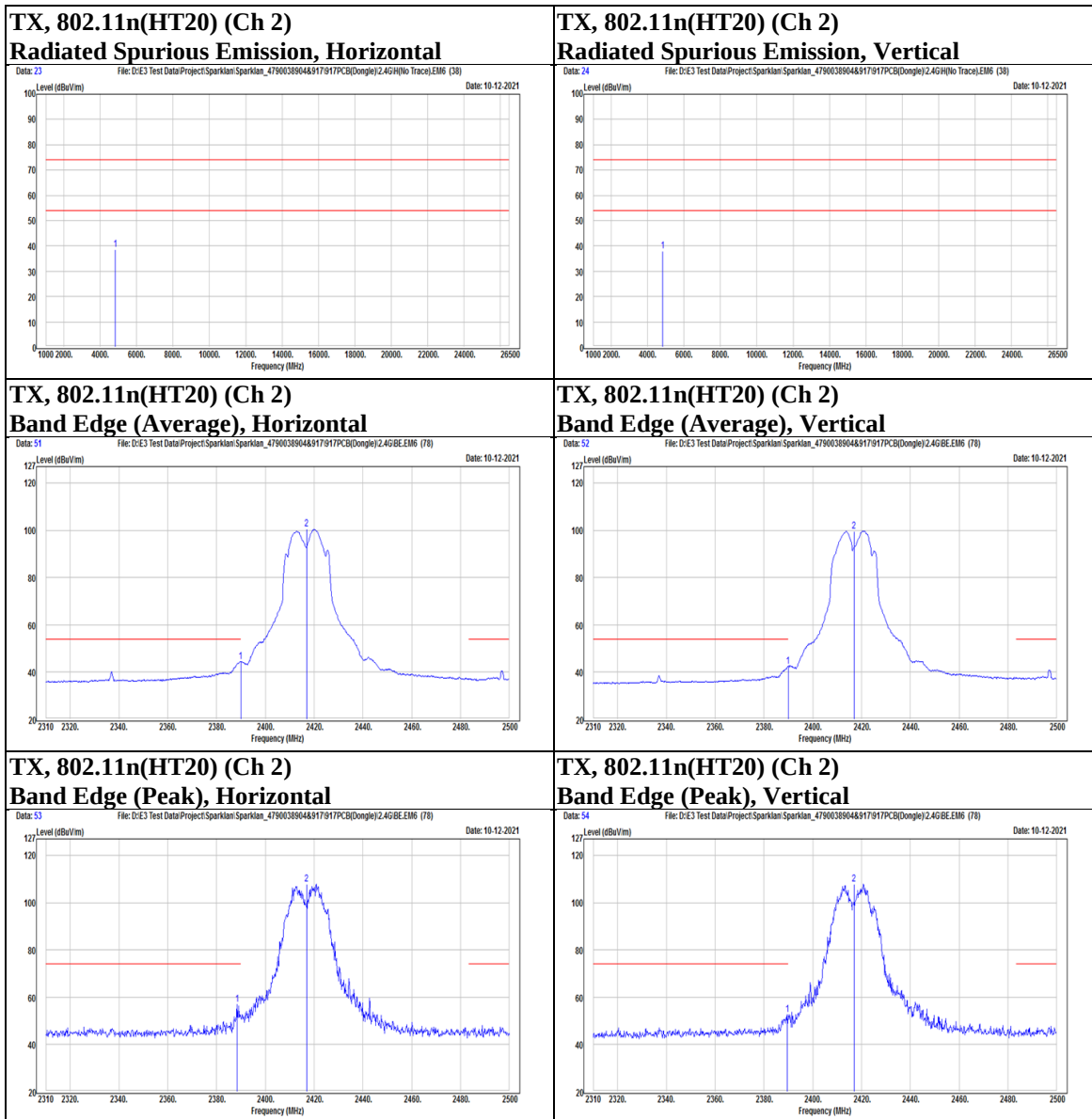
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Mode	802.11n(HT20)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2377.83	47.1	6.08	53.18	74	-20.82	PK
		2389.8	37.43	6.1	43.53	54	-10.47	AVG
	@	2437	106.24	6.12	112.36	N/A	N/A	PK
	@	2437	98.56	6.12	104.68	N/A	N/A	AVG
		2483.66	48.43	6.1	54.53	74	-19.47	PK
		2483.66	36.85	6.1	42.95	54	-11.05	AVG
	*	4874	35.29	2.66	37.95	74	-36.05	PK
Vertical		2385.43	48.41	6.09	54.5	74	-19.5	PK
		2389.8	36.43	6.1	42.53	54	-11.47	AVG
	@	2437	106.4	6.12	112.52	N/A	N/A	PK
	@	2437	98.81	6.12	104.93	N/A	N/A	AVG
		2483.66	37.43	6.1	43.53	54	-10.47	AVG
		2486.7	48.44	6.1	54.54	74	-19.46	PK
	*	4874	34.97	2.66	37.63	74	-36.37	PK
	*	7311	39.63	10.62	50.25	74	-23.75	PK

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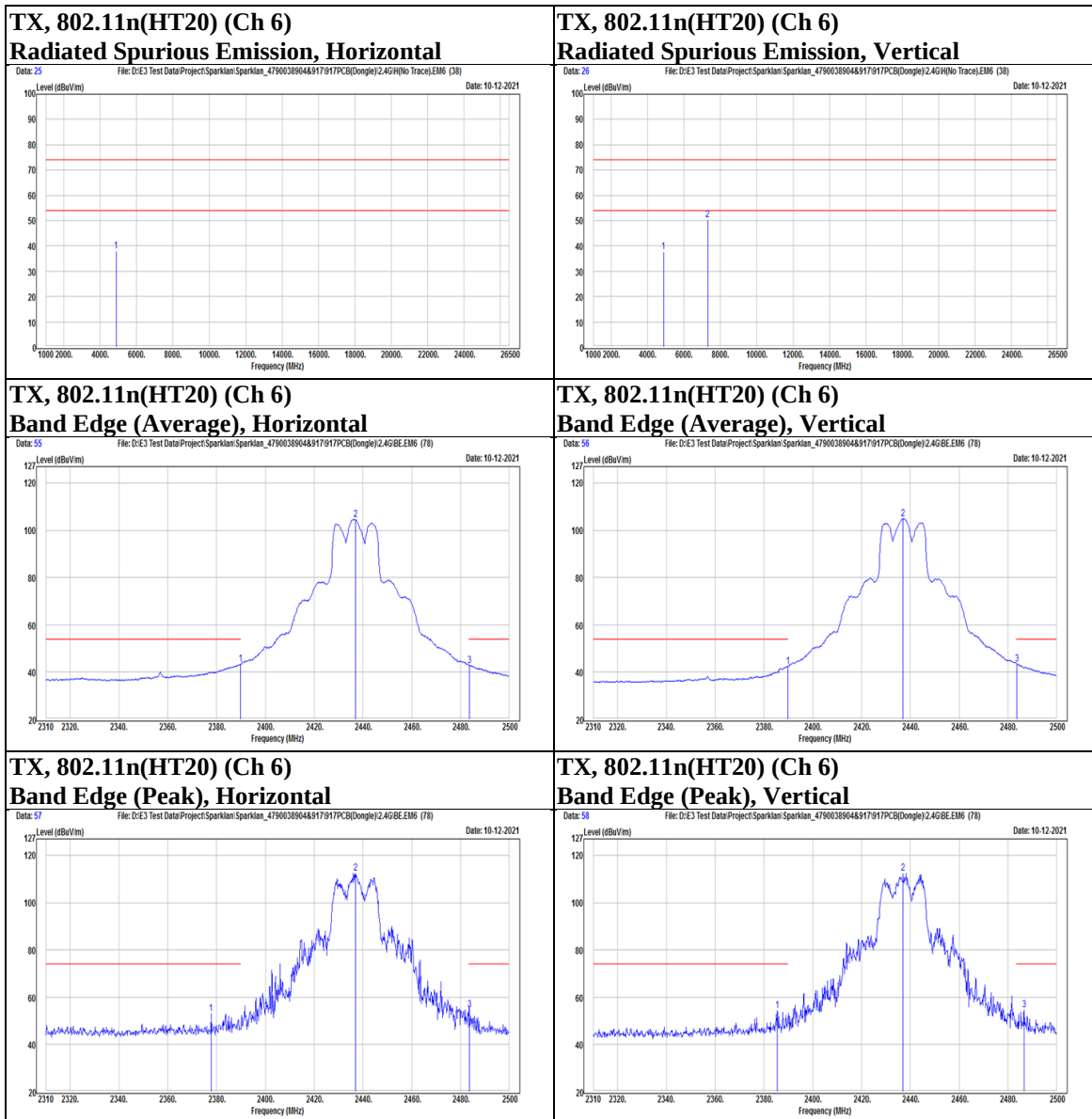
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Mode	802.11n(HT20)	Channel	10
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2457	100.21	6.12	106.33	N/A	N/A	PK
	@	2457	92.79	6.12	98.91	N/A	N/A	AVG
		2483.85	33.89	6.1	39.99	54	-14.01	AVG
		2484.8	43.02	6.1	49.12	74	-24.88	PK
	*	4914	35.15	2.63	37.78	74	-36.22	PK
Vertical	@	2457	100.88	6.12	107	N/A	N/A	PK
	@	2457	92.83	6.12	98.95	N/A	N/A	AVG
		2483.66	34.18	6.1	40.28	54	-13.72	AVG
		2483.85	46.05	6.1	52.15	74	-21.85	PK
	*	4914	35.51	2.63	38.14	74	-35.86	PK

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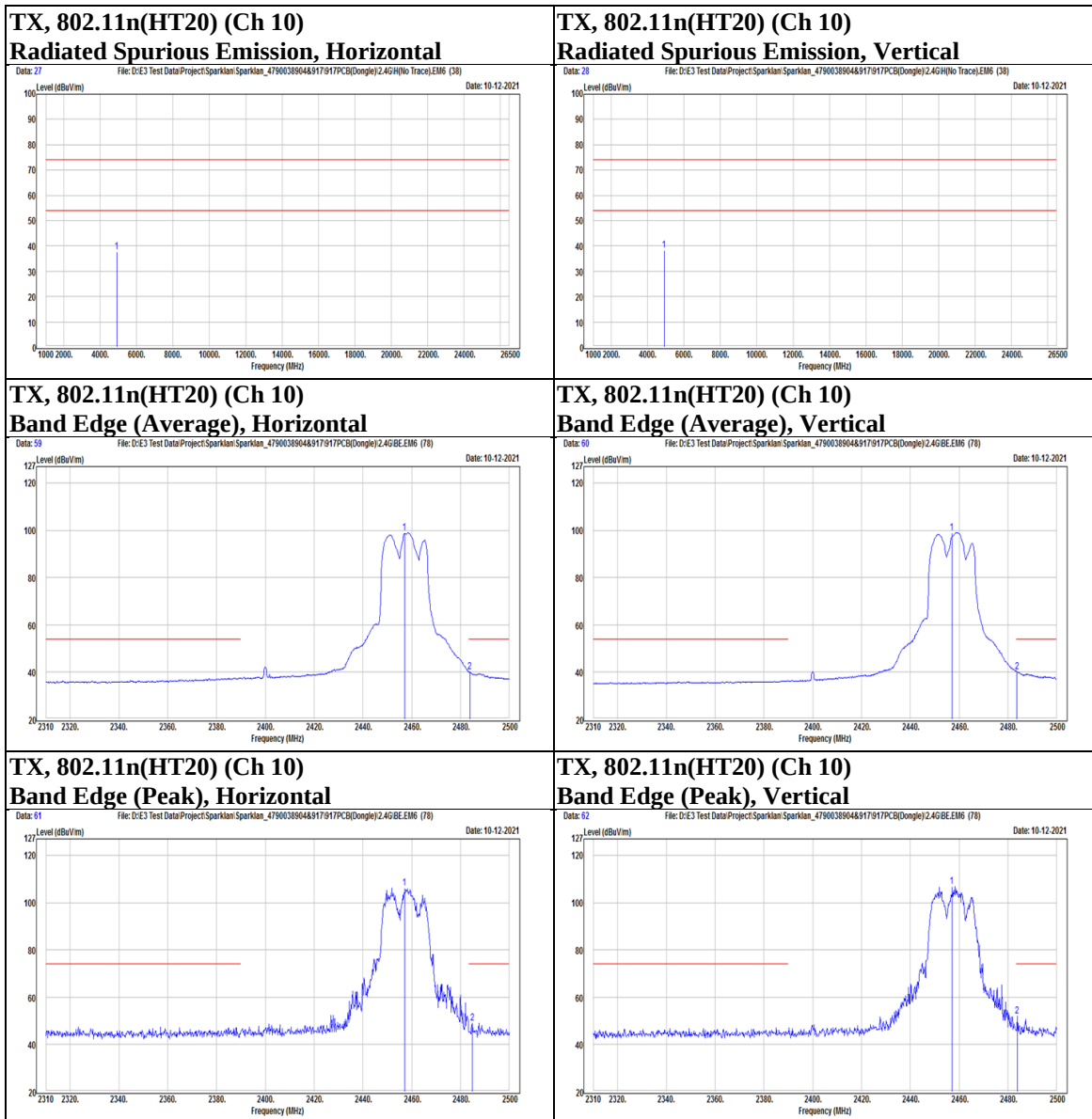
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Mode	802.11n(HT20)	Channel	11
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2462	97.85	6.12	103.97	N/A	N/A	PK
	@	2462	89.31	6.12	95.43	N/A	N/A	AVG
		2483.66	32.37	6.1	38.47	54	-15.53	AVG
		2493.54	41.7	6.1	47.8	74	-26.2	PK
	*	4924	35.78	2.61	38.39	74	-35.61	PK
Vertical	@	2462	96.6	6.12	102.72	N/A	N/A	PK
	@	2462	89.9	6.12	96.02	N/A	N/A	AVG
		2483.66	33.8	6.1	39.9	54	-14.1	AVG
		2492.59	40.58	6.1	46.68	74	-27.32	PK
	*	4924	34.69	2.61	37.3	74	-36.7	PK

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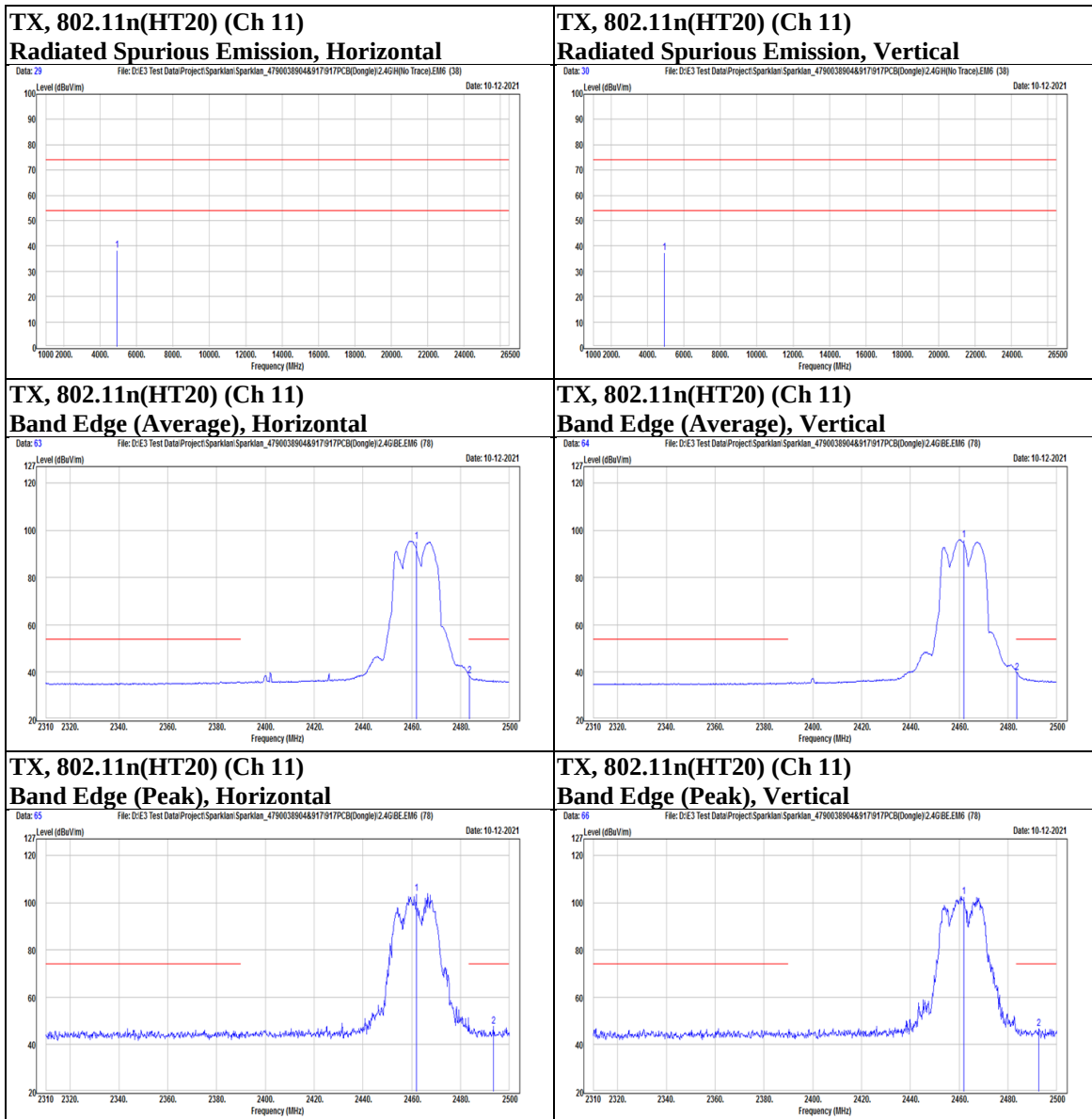
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Mode	802.11n(HT40)	Channel	3
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2386.76	33.45	6.1	39.55	54	-14.45	AVG
		2387.33	43.74	6.1	49.84	74	-24.16	PK
	@	2422	93.09	6.13	99.22	N/A	N/A	PK
	@	2422	86.19	6.13	92.32	N/A	N/A	AVG
	*	4844	35.97	2.66	38.63	74	-35.37	PK
Vertical		2385.81	41.52	6.09	47.61	74	-26.39	PK
		2387.71	31.56	6.1	37.66	54	-16.34	AVG
	@	2422	92.97	6.13	99.1	N/A	N/A	PK
	@	2422	85.32	6.13	91.45	N/A	N/A	AVG
	*	4844	34.89	2.66	37.55	74	-36.45	PK

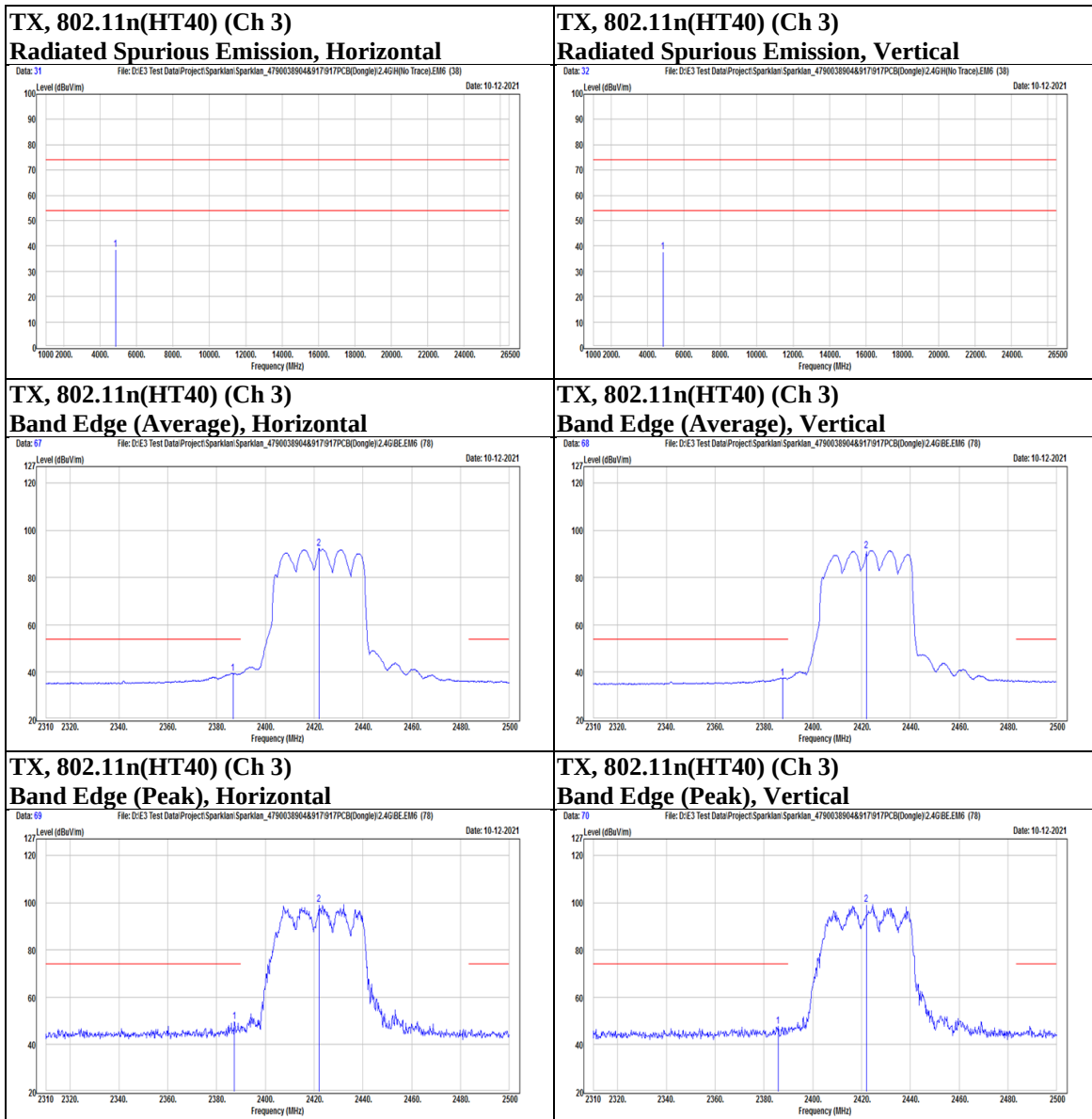
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Mode	802.11n(HT40)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2368.14	42.47	6.07	48.54	74	-25.46	PK
		2389.42	33.09	6.1	39.19	54	-14.81	AVG
	@	2437	95.83	6.12	101.95	N/A	N/A	PK
	@	2437	88.4	6.12	94.52	N/A	N/A	AVG
		2485.56	32.77	6.1	38.87	54	-15.13	AVG
		2500	41.26	6.1	47.36	74	-26.64	PK
	*	4874	35.77	2.66	38.43	74	-35.57	PK
Vertical		2356.74	42.23	6.04	48.27	74	-25.73	PK
		2388.85	31.1	6.1	37.2	54	-16.8	AVG
	@	2437	97.48	6.12	103.6	N/A	N/A	PK
	@	2437	88.11	6.12	94.23	N/A	N/A	AVG
		2483.66	32.67	6.1	38.77	54	-15.23	AVG
		2485.94	44.41	6.1	50.51	74	-23.49	PK
	*	4874	35.38	2.66	38.04	74	-35.96	PK

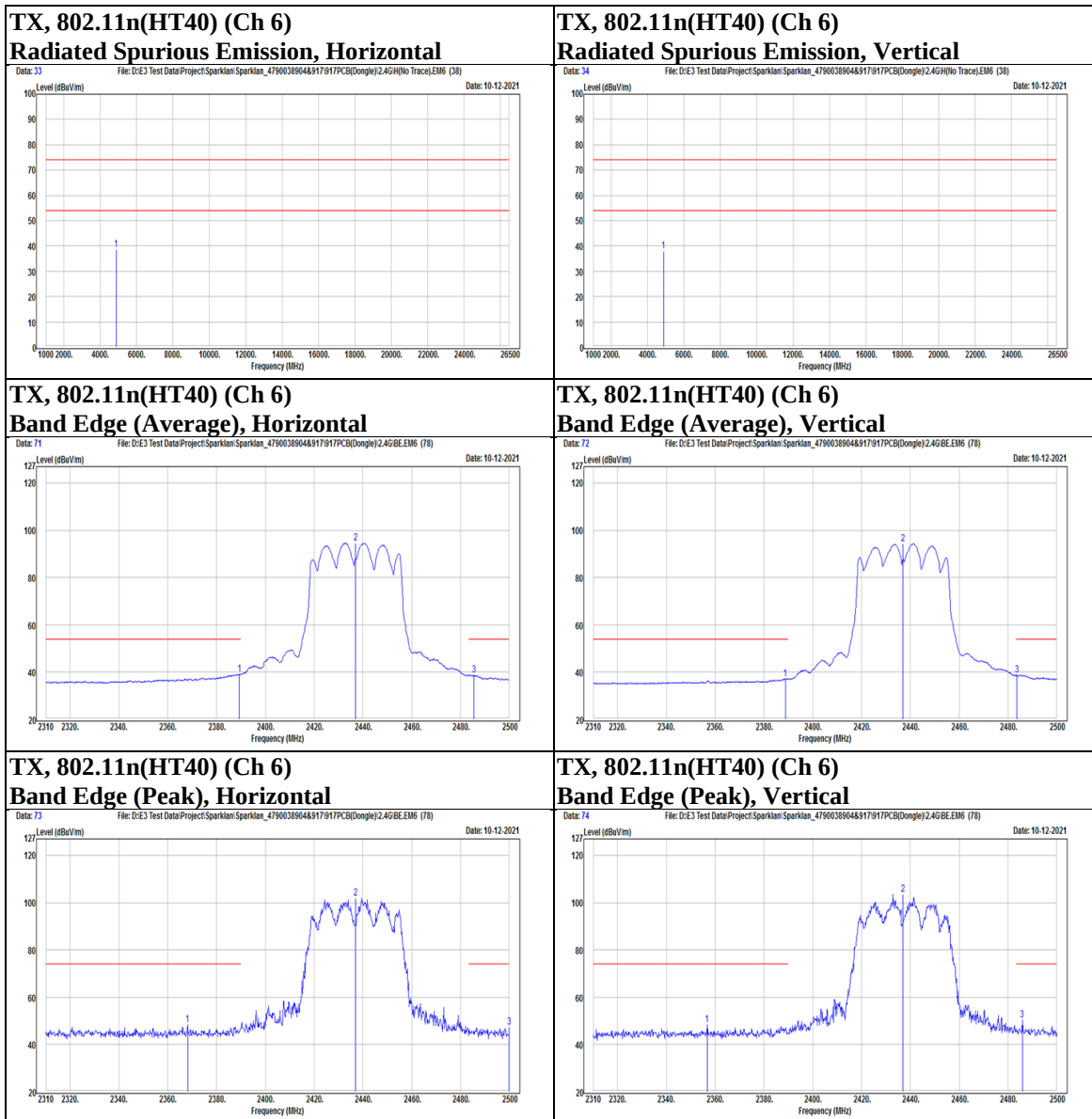
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Mode	802.11n(HT40)	Channel	9
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2452	93.33	6.12	99.45	N/A	N/A	PK
	@	2452	85.58	6.12	91.7	N/A	N/A	AVG
		2483.66	43.45	6.1	49.55	74	-24.45	PK
		2483.66	35.01	6.1	41.11	54	-12.89	AVG
	*	4904	35.49	2.63	38.12	74	-35.88	PK
Vertical	@	2452	93.29	6.12	99.41	N/A	N/A	PK
	@	2452	85	6.12	91.12	N/A	N/A	AVG
		2483.66	35.46	6.1	41.56	54	-12.44	AVG
		2484.04	45.9	6.1	52	74	-22	PK
	*	4904	35.55	2.63	38.18	74	-35.82	PK

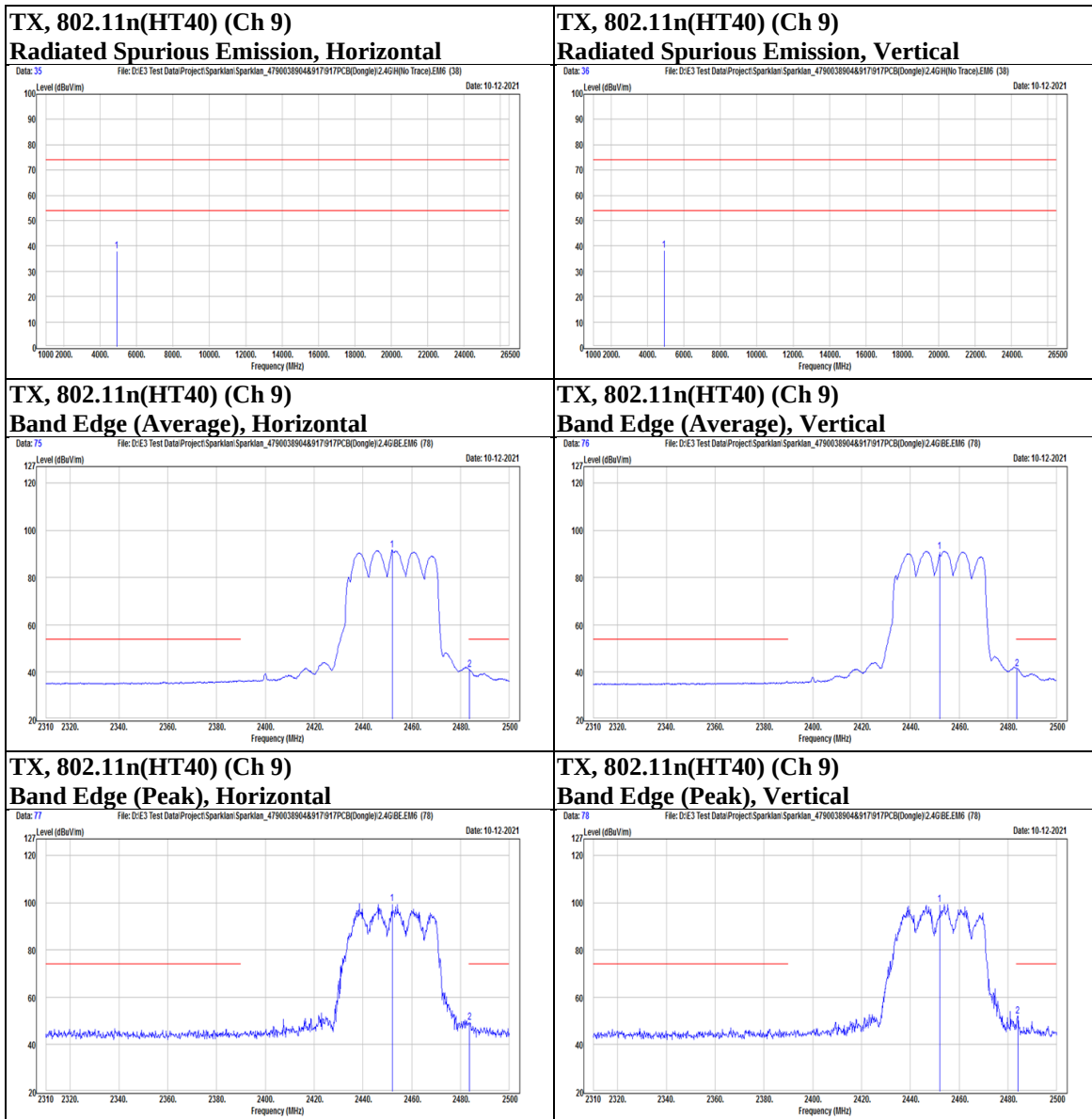
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Below 1G

Mode	802.11n20	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		78.5	41.74	-16	25.74	40	-14.26	PK
		143.49	41.11	-11.81	29.3	43.5	-14.2	PK
		205.57	48.45	-13.94	34.51	43.5	-8.99	PK
		341.37	40.22	-8.72	31.5	46	-14.5	PK
		480.08	37.6	-5.19	32.41	46	-13.59	PK
		958.29	32.56	3.88	36.44	46	-9.56	PK
Vertical		31.94	39.02	-12.47	26.55	40	-13.45	PK
		78.5	40.88	-16	24.88	40	-15.12	PK
		151.25	38.57	-11.43	27.14	43.5	-16.36	PK
		296.75	37.98	-10.08	27.9	46	-18.1	PK
		481.05	42.59	-5.15	37.44	46	-8.56	PK
		960.23	35	3.89	38.89	54	-15.11	PK

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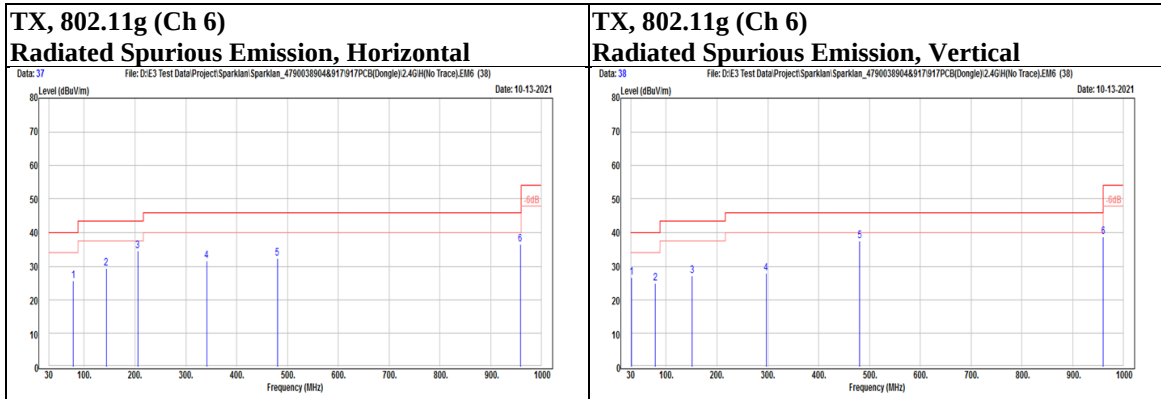
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9.3. AC Power Line Conducted Emission

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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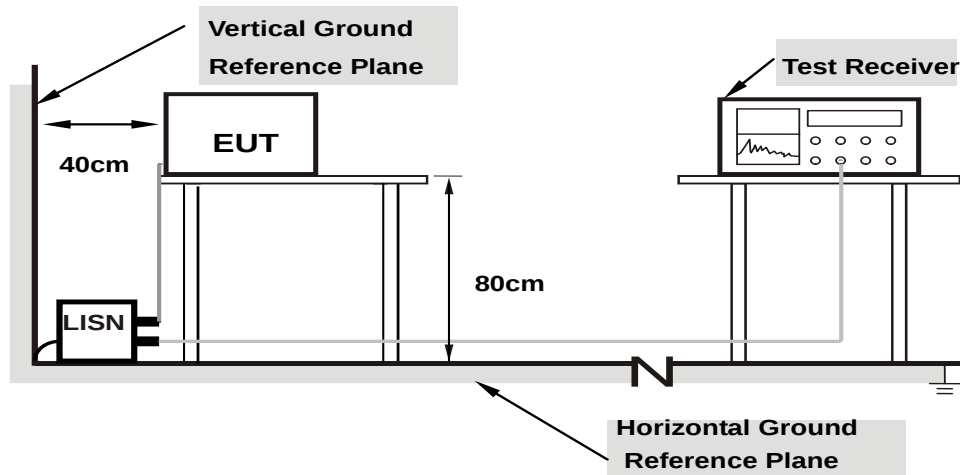
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Test Setup



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

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

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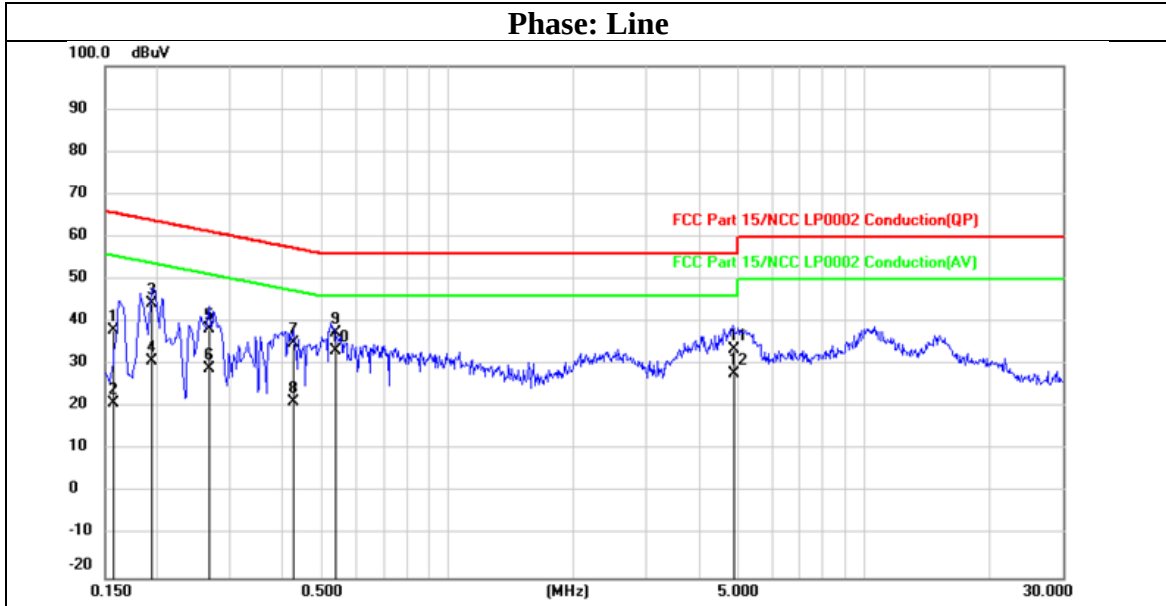
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Test Data

Mode	802.11n20	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1573	18.56	19.49	38.05	65.61	-27.56	QP
2	0.1573	1.35	19.49	20.84	55.61	-34.77	AVG
3	0.1935	24.77	19.49	44.26	63.88	-19.62	QP
4	0.1935	11.43	19.49	30.92	53.88	-22.96	AVG
5	0.2666	18.84	19.49	38.33	61.22	-22.89	QP
6	0.2666	9.52	19.49	29.01	51.22	-22.21	AVG
7	0.4256	15.62	19.49	35.11	57.34	-22.23	QP
8	0.4256	1.82	19.49	21.31	47.34	-26.03	AVG
9	0.5351	17.94	19.50	37.44	56.00	-18.56	QP
10	0.5351	13.70	19.50	33.20	46.00	-12.80	AVG
11	4.8808	13.97	19.60	33.57	56.00	-22.43	QP
12	4.8808	8.34	19.60	27.94	46.00	-18.06	AVG

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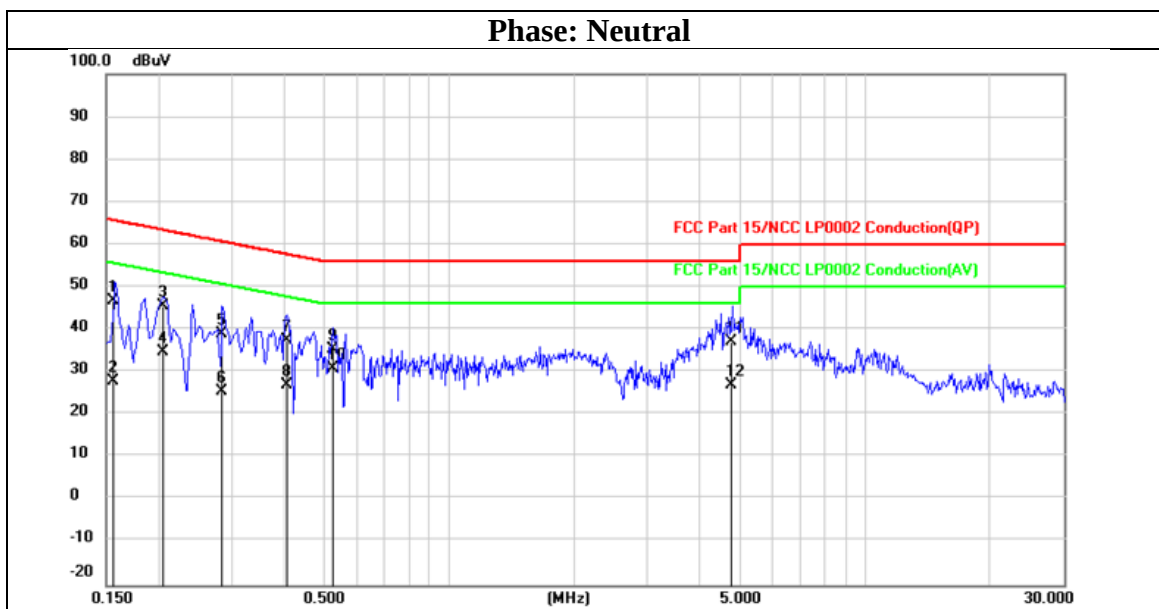
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Mode	802.11n20	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1551	27.41	19.49	46.90	65.72	-18.82	QP
2	0.1551	8.51	19.49	28.00	55.72	-27.72	AVG
3	0.2050	26.05	19.49	45.54	63.41	-17.87	QP
4	0.2050	15.17	19.49	34.66	53.41	-18.75	AVG
5	0.2850	19.38	19.49	38.87	60.67	-21.80	QP
6	0.2850	5.86	19.49	25.35	50.67	-25.32	AVG
7	0.4080	18.01	19.49	37.50	57.69	-20.19	QP
8	0.4080	7.40	19.49	26.89	47.69	-20.80	AVG
9	0.5257	15.83	19.50	35.33	56.00	-20.67	QP
10	0.5257	11.26	19.50	30.76	46.00	-15.24	AVG
11	4.7683	17.49	19.60	37.09	56.00	-18.91	QP
12	4.7683	7.24	19.60	26.84	46.00	-19.16	AVG

END OF REPORT

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