

Mode	802.11g	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	90.26	18.73	108.99	N/A	N/A	PK
	@	2462	80.4	18.73	99.13	N/A	N/A	AVG
		2483.66	34.4	18.89	53.29	54	-0.71	AVG
		2483.85	50.21	18.89	69.1	74	-4.9	PK
	*	4924	37.13	2.6	39.73	74	-34.27	PK
	*	7386	34.29	10.87	45.16	74	-28.84	PK
Vertical	@	2462	86.44	18.73	105.17	N/A	N/A	PK
	@	2462	77.44	18.73	96.17	N/A	N/A	AVG
		2483.66	48.02	18.89	66.91	74	-7.09	PK
		2483.66	33.72	18.89	52.61	54	-1.39	AVG
	*	4924	36.3	2.6	38.9	74	-35.1	PK
	*	7386	34.47	10.87	45.34	74	-28.66	PK

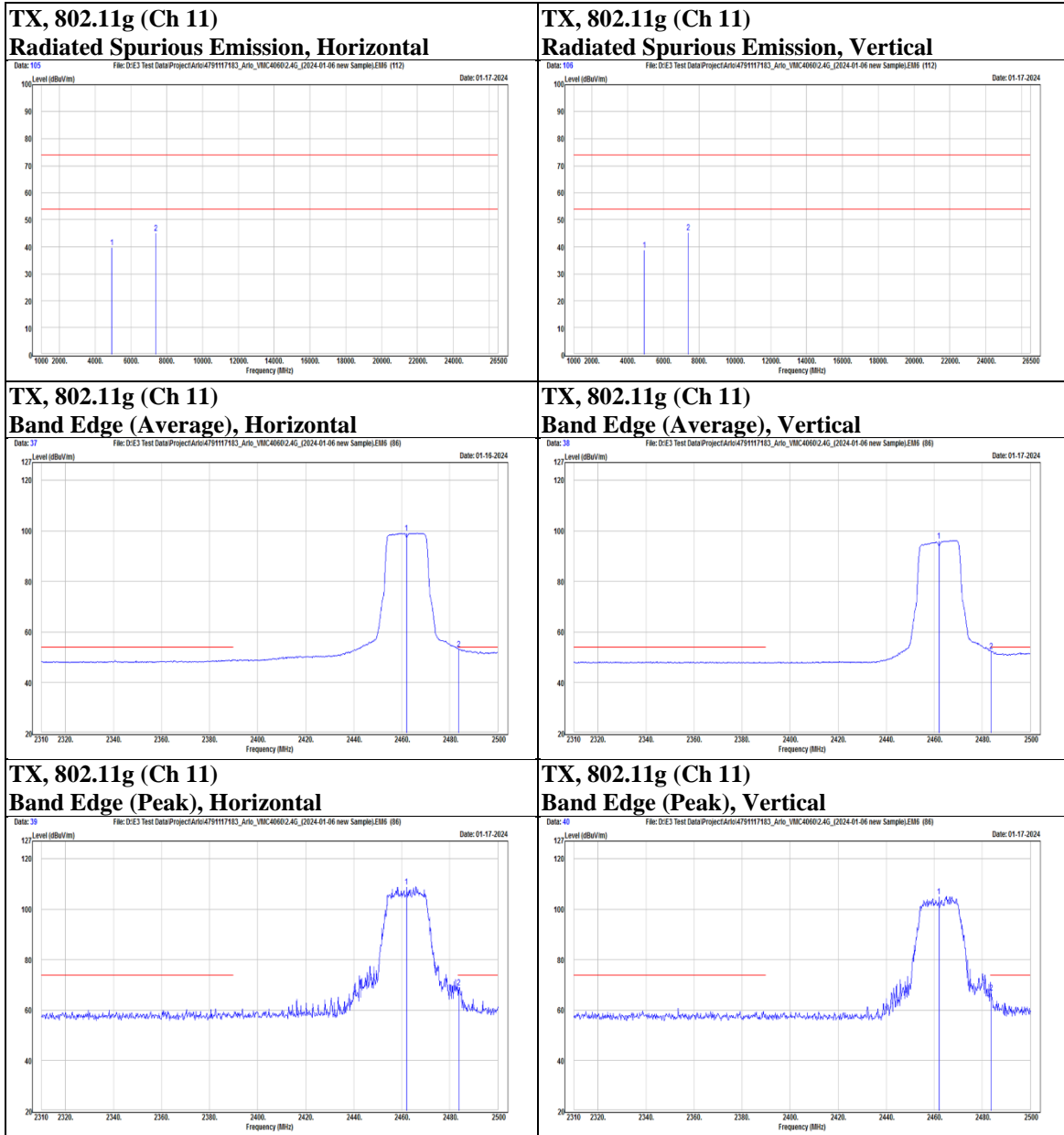
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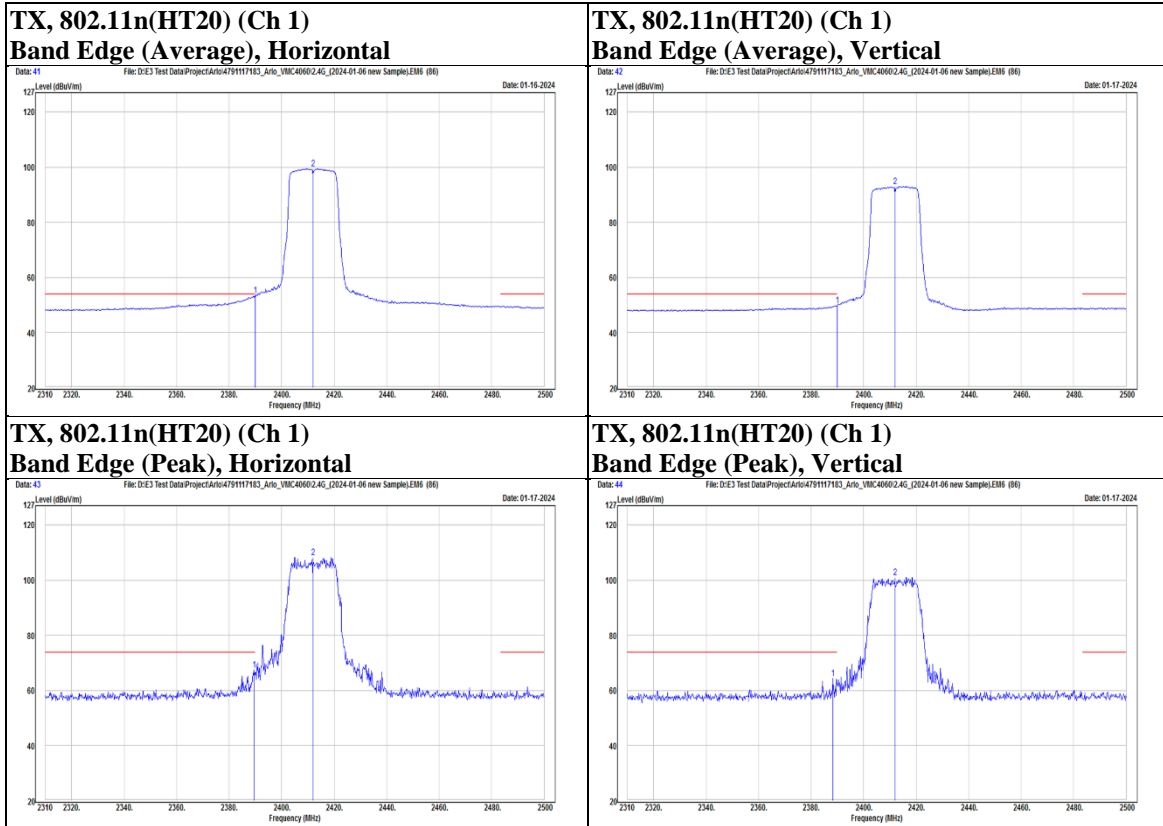
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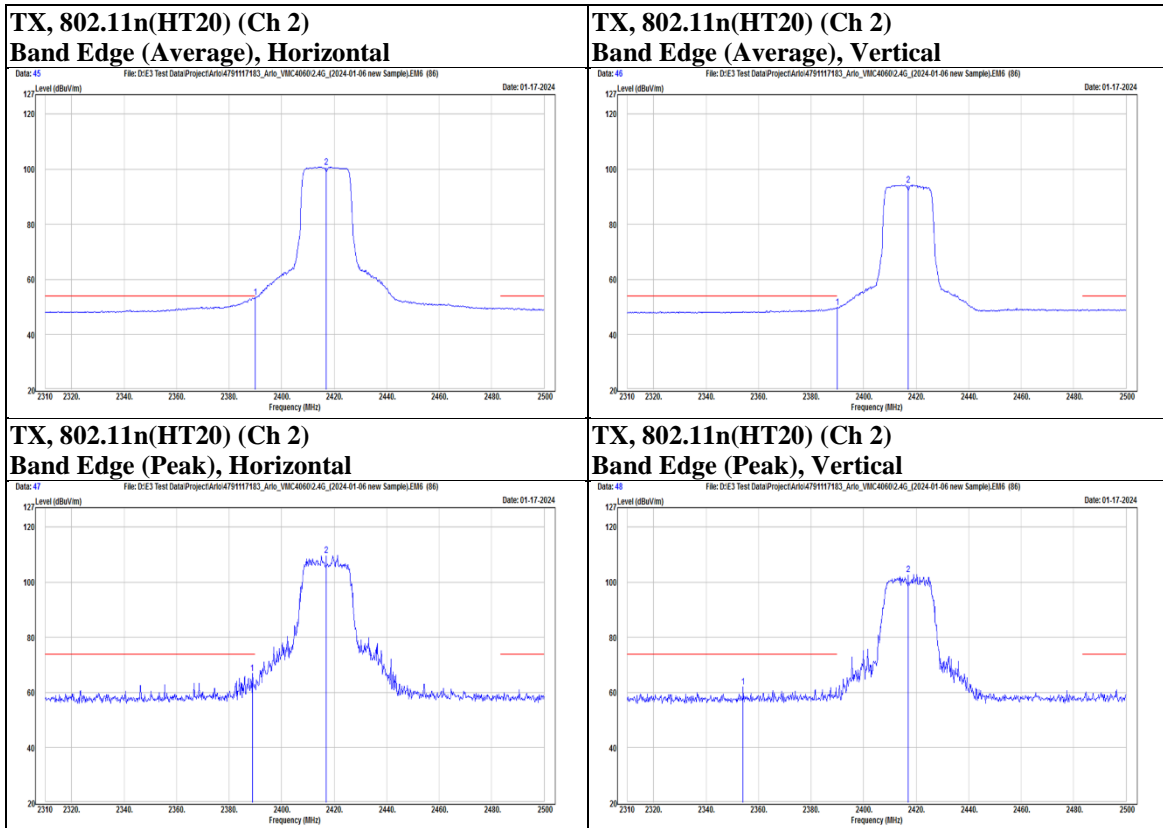
Mode	802.11n(HT20)	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.61	48.47	19	67.47	74	-6.53	PK
		2389.99	34.46	19	53.46	54	-0.54	AVG
	@	2412	89.21	18.88	108.09	N/A	N/A	PK
	@	2412	80.54	18.88	99.42	N/A	N/A	AVG
Vertical		2388.28	45.21	19.01	64.22	74	-9.78	PK
		2389.99	30.96	19	49.96	54	-4.04	AVG
	@	2412	82.18	18.88	101.06	N/A	N/A	PK
	@	2412	74.12	18.88	93	N/A	N/A	AVG



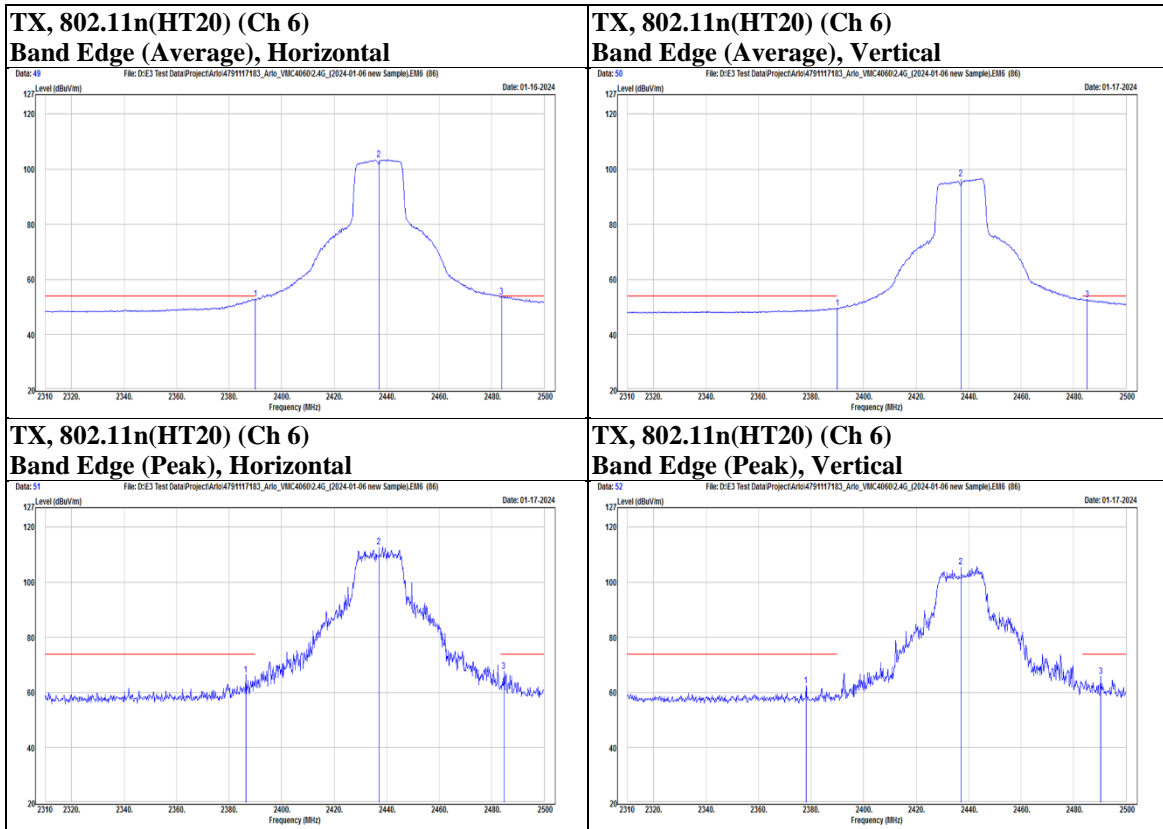
Mode	802.11n(HT20)	Channel	2
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2388.85	48.01	19.01	67.02	74	-6.98	PK
		2389.99	34.4	19	53.4	54	-0.6	AVG
	@	2417	90.76	18.84	109.6	N/A	N/A	PK
	@	2417	81.91	18.84	100.75	N/A	N/A	AVG
Vertical		2354.08	42.8	19.16	61.96	74	-12.04	PK
		2389.99	30.87	19	49.87	54	-4.13	AVG
	@	2417	83.95	18.84	102.79	N/A	N/A	PK
	@	2417	75.38	18.84	94.22	N/A	N/A	AVG



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		2386.38	47.44	19.01	66.45	74	-7.55	PK
		2389.99	33.93	19	52.93	54	-1.07	AVG
	@	2437	94.01	18.72	112.73	N/A	N/A	PK
	@	2437	84.85	18.72	103.57	N/A	N/A	AVG
		2483.85	34.98	18.89	53.87	54	-0.13	AVG
		2484.61	48.69	18.9	67.59	74	-6.41	PK
Vertical		2378.02	43.48	19.05	62.53	74	-11.47	PK
		2389.99	30.61	19	49.61	54	-4.39	AVG
	@	2437	86.84	18.72	105.56	N/A	N/A	PK
	@	2437	77.83	18.72	96.55	N/A	N/A	AVG
		2485.18	33.9	18.9	52.8	54	-1.2	AVG
		2490.31	46.87	18.94	65.81	74	-8.19	PK



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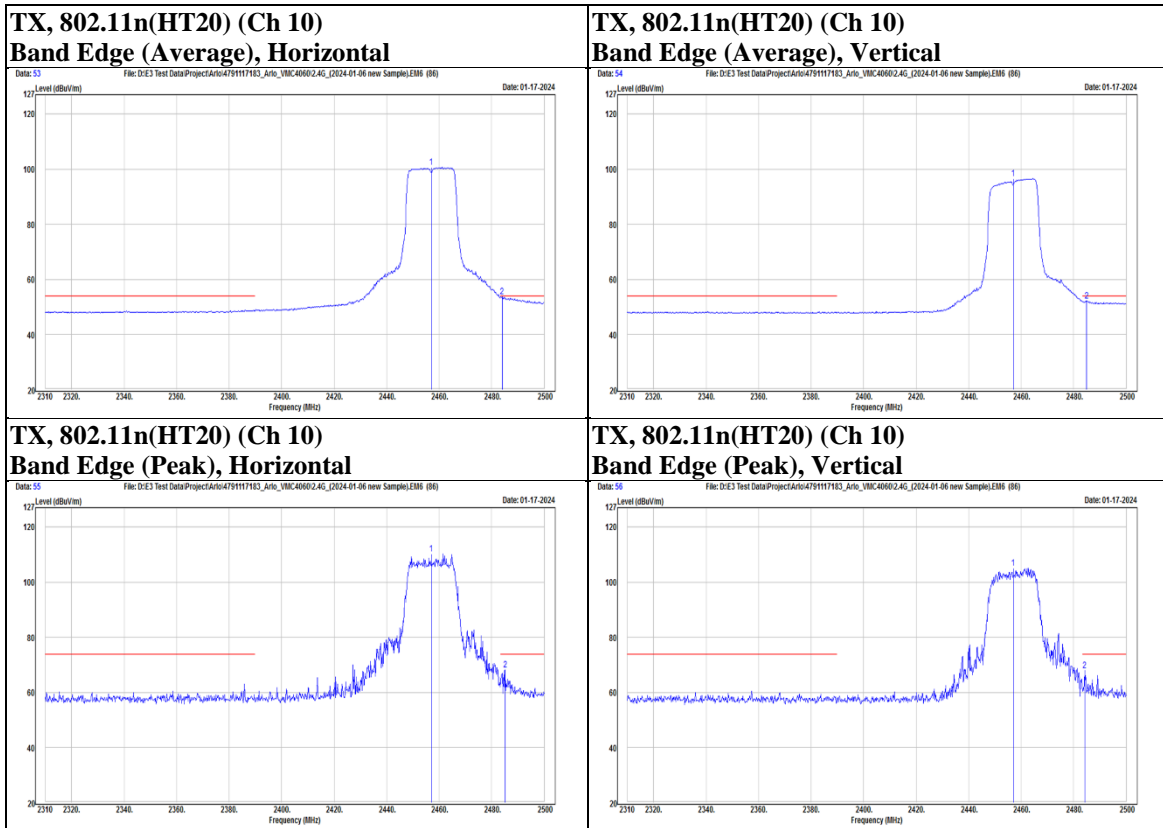
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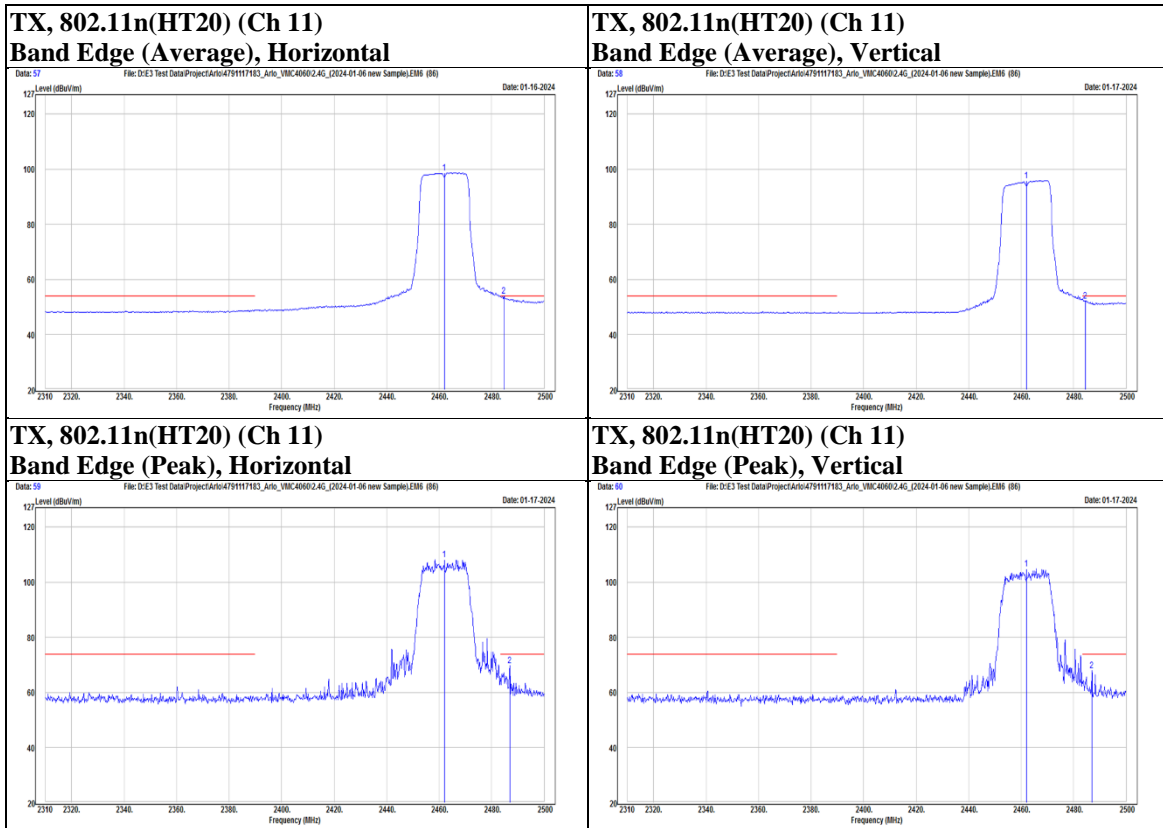
Mode	802.11n(HT20)	Channel	10
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2457	91.45	18.69	110.14	N/A	N/A	PK
	@	2457	81.92	18.69	100.61	N/A	N/A	AVG
		2484.04	34.99	18.89	53.88	54	-0.12	AVG
		2485.18	49.34	18.9	68.24	74	-5.76	PK
Vertical	@	2457	86.44	18.69	105.13	N/A	N/A	PK
	@	2457	77.89	18.69	96.58	N/A	N/A	AVG
		2484.23	49.13	18.9	68.03	74	-5.97	PK
		2484.99	33.27	18.9	52.17	54	-1.83	AVG



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	89.52	18.73	108.25	N/A	N/A	PK
	@	2462	79.98	18.73	98.71	N/A	N/A	AVG
		2484.61	35.01	18.9	53.91	54	-0.09	AVG
		2486.89	50.93	18.92	69.85	74	-4.15	PK
Vertical	@	2462	86.09	18.73	104.82	N/A	N/A	PK
	@	2462	77.1	18.73	95.83	N/A	N/A	AVG
		2484.42	33.4	18.9	52.3	54	-1.7	AVG
		2486.89	49.07	18.92	67.99	74	-6.01	PK



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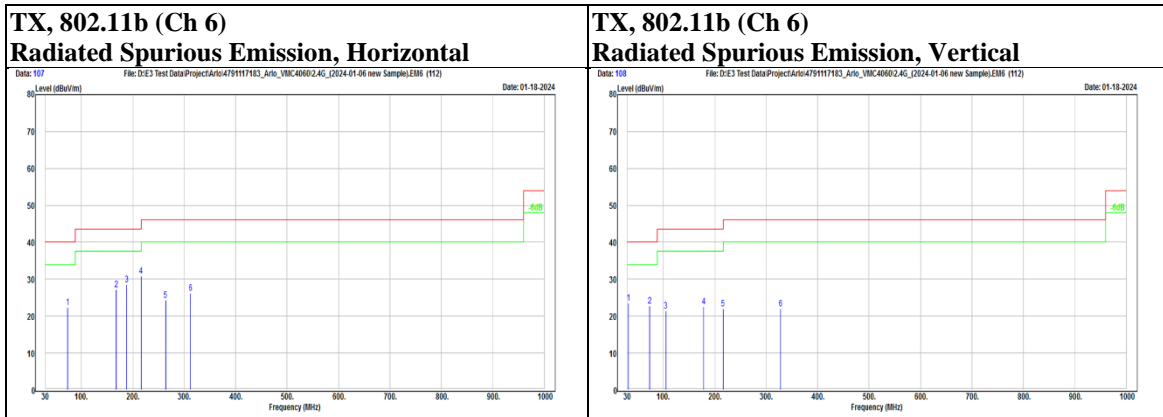
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Below 1 GHz

Mode	802.11b	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		73.65	36.93	-14.61	22.32	40	-17.68	PK
		167.74	38.9	-11.75	27.15	43.5	-16.35	PK
		188.11	42.4	-13.89	28.51	43.5	-14.99	PK
		216.24	45.17	-14.33	30.84	46	-15.16	PK
		263.77	36.15	-11.77	24.38	46	-21.62	PK
		312.27	36.46	-10.16	26.3	46	-19.7	PK
Vertical		31.94	38	-14.5	23.5	40	-16.5	PK
		73.65	37.27	-14.61	22.66	40	-17.34	PK
		104.69	36.72	-15.41	21.31	43.5	-22.19	PK
		178.41	35.24	-12.74	22.5	43.5	-21	PK
		216.24	36.23	-14.33	21.9	46	-24.1	PK
		327.79	31.45	-9.49	21.96	46	-24.04	PK



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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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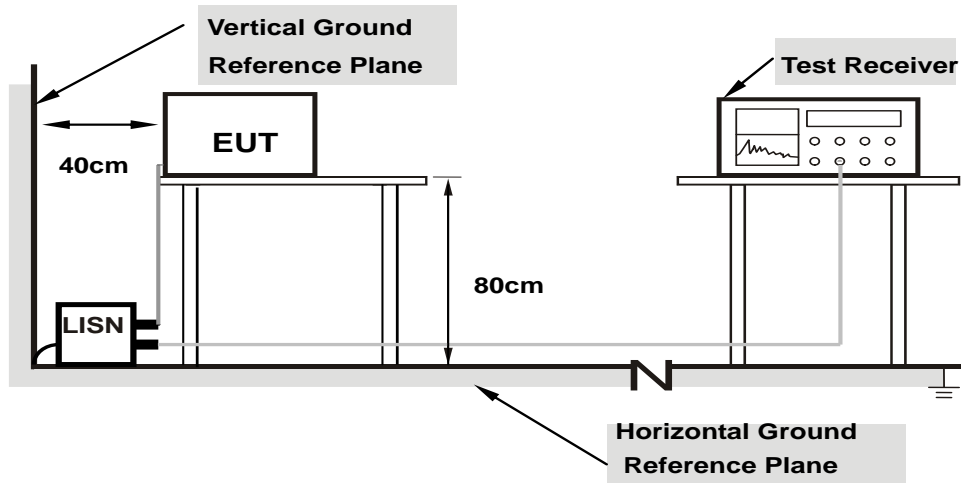
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Test Setup

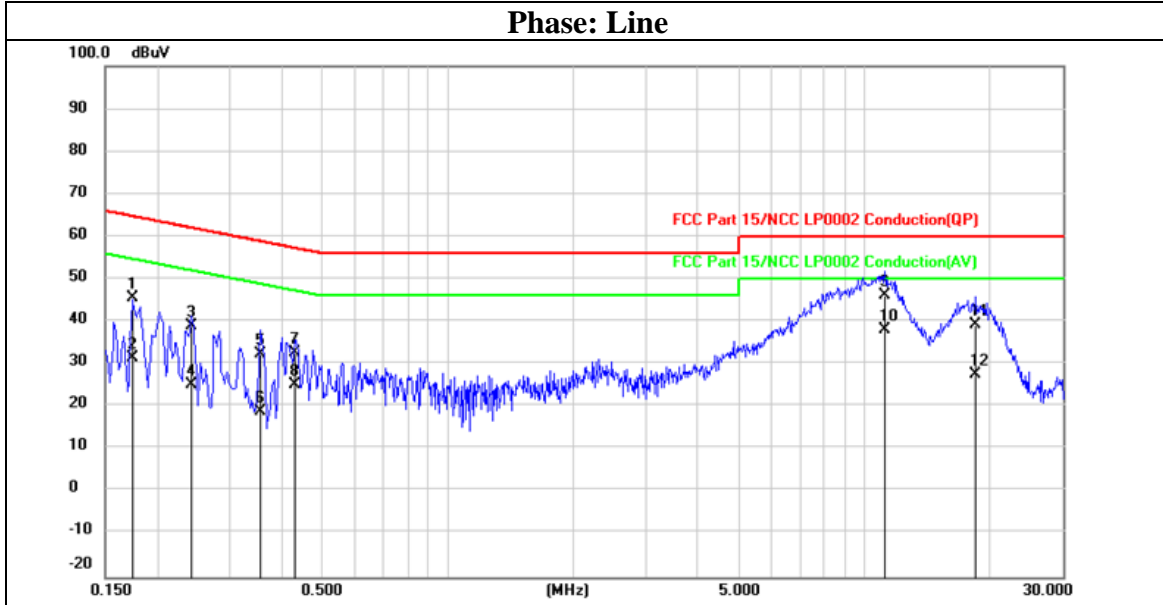


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	802.11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	35.67	9.95	45.62	64.77	-19.15	QP
2	0.1740	21.37	9.95	31.32	54.77	-23.45	AVG
3	0.2420	29.05	9.95	39.00	62.03	-23.03	QP
4	0.2420	15.21	9.95	25.16	52.03	-26.87	AVG
5	0.3540	22.38	9.95	32.33	58.87	-26.54	QP
6	0.3540	8.86	9.95	18.81	48.87	-30.06	AVG
7	0.4300	22.73	9.95	32.68	57.25	-24.57	QP
8	0.4300	15.07	9.95	25.02	47.25	-22.23	AVG
9	11.2180	35.80	10.29	46.09	60.00	-13.91	QP
10	11.2180	27.68	10.29	37.97	50.00	-12.03	AVG
11	18.5900	28.62	10.49	39.11	60.00	-20.89	QP
12	18.5900	17.12	10.49	27.61	50.00	-22.39	AVG

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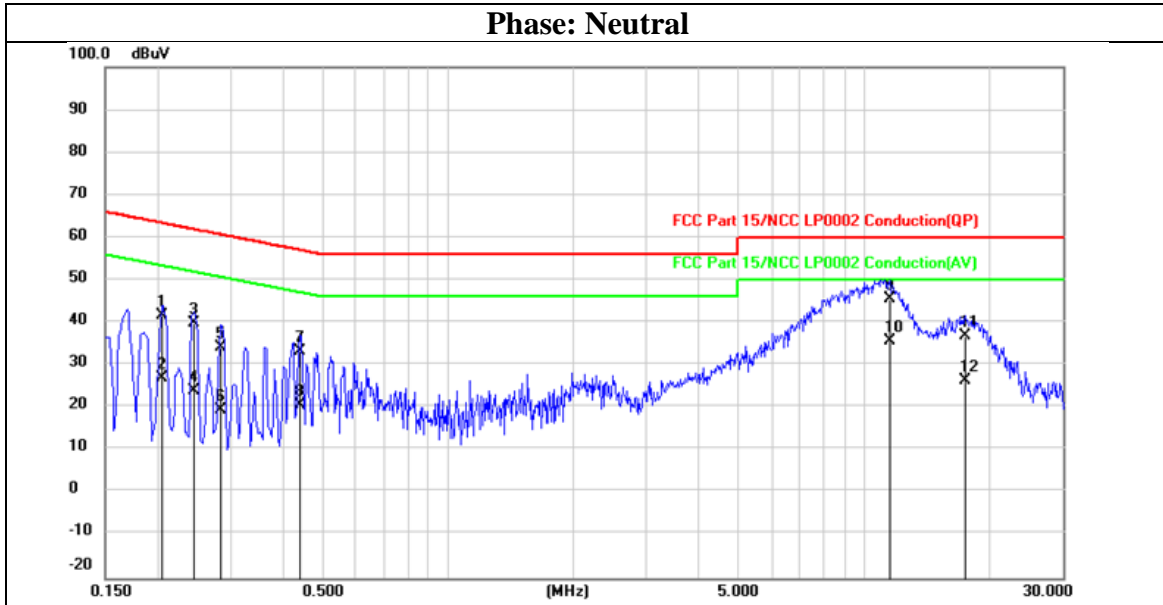
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Mode	802.11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2060	31.76	9.94	41.70	63.37	-21.67	QP
2	0.2060	17.12	9.94	27.06	53.37	-26.31	AVG
3	0.2460	29.82	9.94	39.76	61.89	-22.13	QP
4	0.2460	13.91	9.94	23.85	51.89	-28.04	AVG
5	0.2860	24.35	9.94	34.29	60.64	-26.35	QP
6	0.2860	9.62	9.94	19.56	50.64	-31.08	AVG
7	0.4420	23.23	9.95	33.18	57.02	-23.84	QP
8	0.4420	10.68	9.95	20.63	47.02	-26.39	AVG
9	11.5420	35.15	10.31	45.46	60.00	-14.54	QP
10	11.5420	25.44	10.31	35.75	50.00	-14.25	AVG
11	17.5660	26.42	10.49	36.91	60.00	-23.09	QP
12	17.5660	15.72	10.49	26.21	50.00	-23.79	AVG

END OF REPORT

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