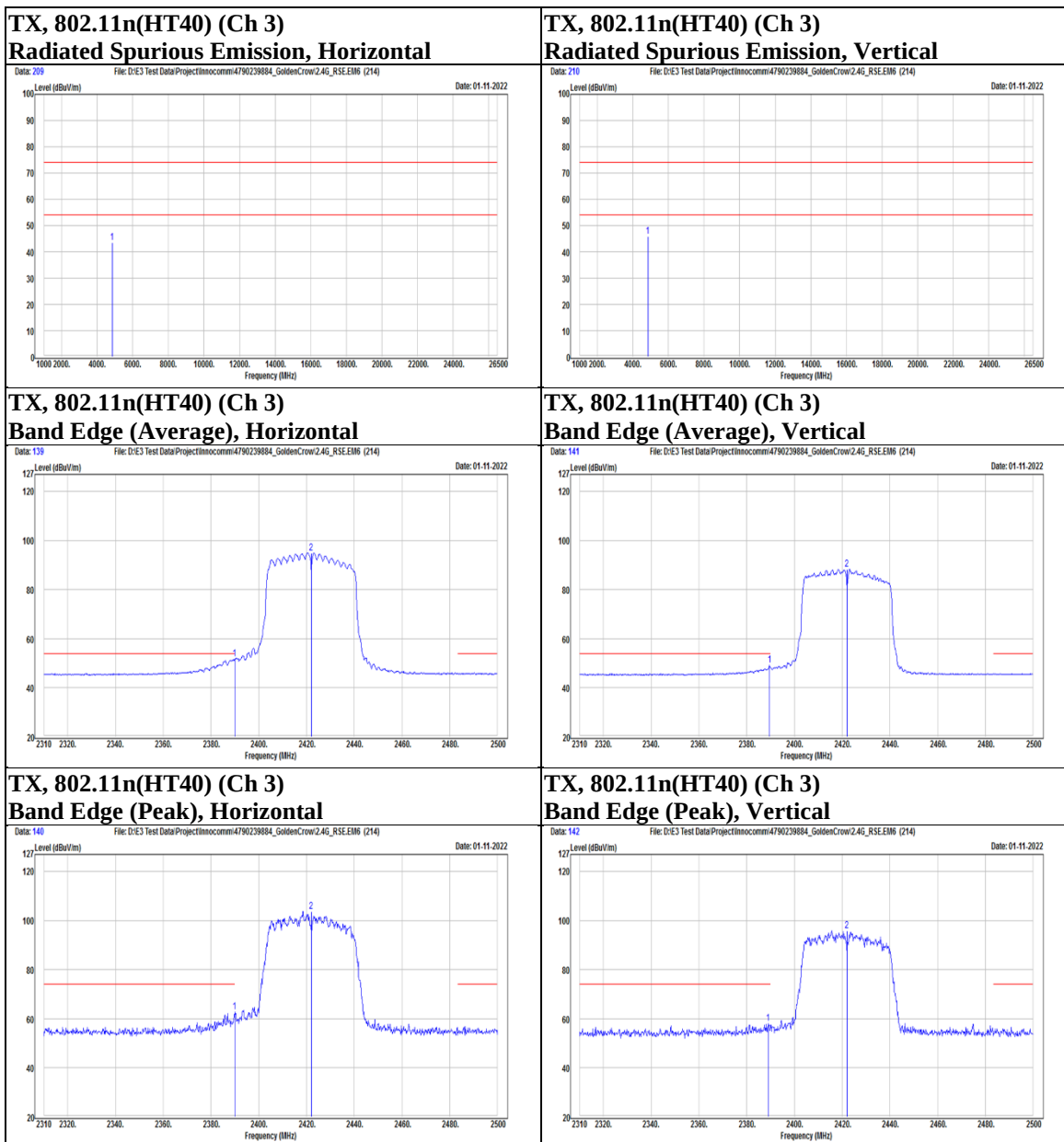






Mode	802.11n(HT40)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2389.23	45.22	16.1	61.32	74	-12.68	PK
		2389.99	35.55	16.1	51.65	54	-2.35	AVG
	@	2437	89.57	16.12	105.69	N/A	N/A	PK
	@	2437	81.39	16.12	97.51	N/A	N/A	AVG
		2483.85	42.29	16.1	58.39	74	-15.61	PK
		2484.61	32.5	16.1	48.6	54	-5.4	AVG
	*	4874	42.37	2.66	45.03	74	-28.97	PK
Vertical		2388.85	41.73	16.1	57.83	74	-16.17	PK
		2389.99	31.88	16.1	47.98	54	-6.02	AVG
	@	2437	82.03	16.12	98.15	N/A	N/A	PK
	@	2437	74.69	16.12	90.81	N/A	N/A	AVG
		2483.66	30.14	16.1	46.24	54	-7.76	AVG
		2485.75	40.85	16.1	56.95	74	-17.05	PK
	*	4874	46.08	2.66	48.74	74	-25.26	PK

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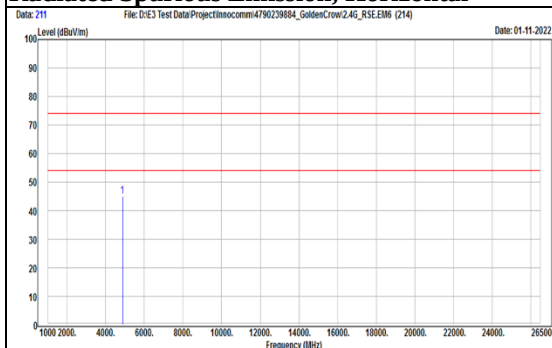
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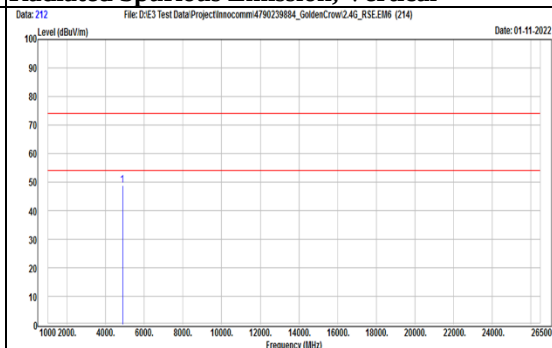
TX, 802.11n(HT40) (Ch 6)

Radiated Spurious Emission, Horizontal



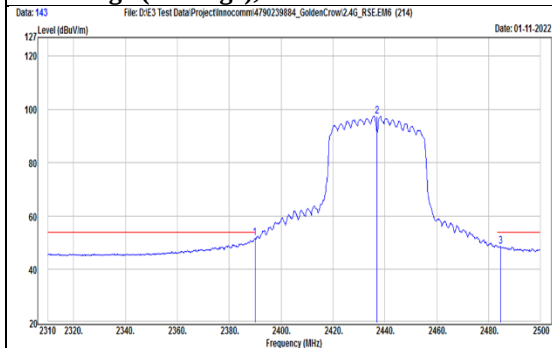
TX, 802.11n(HT40) (Ch 6)

Radiated Spurious Emission, Vertical



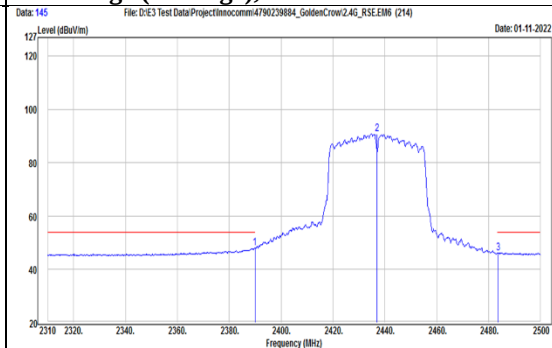
TX, 802.11n(HT40) (Ch 6)

Band Edge (Average), Horizontal



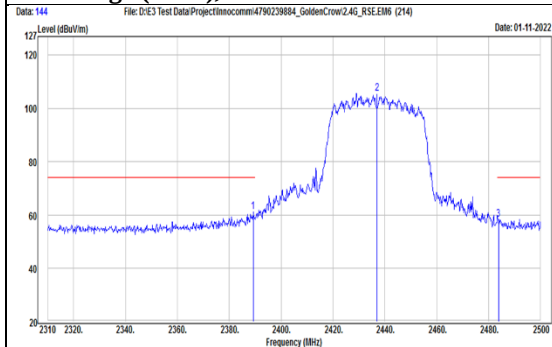
TX, 802.11n(HT40) (Ch 6)

Band Edge (Average), Vertical



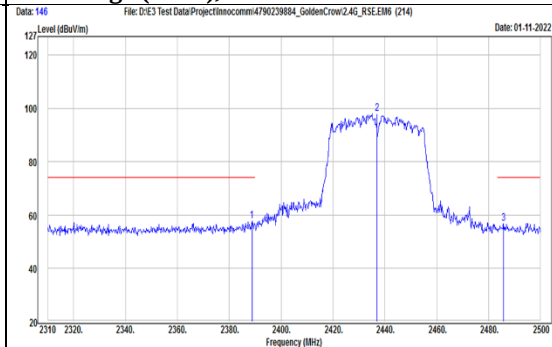
TX, 802.11n(HT40) (Ch 6)

Band Edge (Peak), Horizontal



TX, 802.11n(HT40) (Ch 6)

Band Edge (Peak), Vertical





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	87.46	16.12	103.58	N/A	N/A	PK
	@	2452	79.11	16.12	95.23	N/A	N/A	AVG
		2484.99	35.02	16.1	51.12	54	-2.88	AVG
		2488.22	45.22	16.1	61.32	74	-12.68	PK
	*	4904	40.64	2.63	43.27	74	-30.73	PK
Vertical	@	2452	80.84	16.12	96.96	N/A	N/A	PK
	@	2452	73.34	16.12	89.46	N/A	N/A	AVG
		2484.04	41.04	16.1	57.14	74	-16.86	PK
		2485.37	30.87	16.1	46.97	54	-7.03	AVG
	*	4904	44.44	2.63	47.07	74	-26.93	PK

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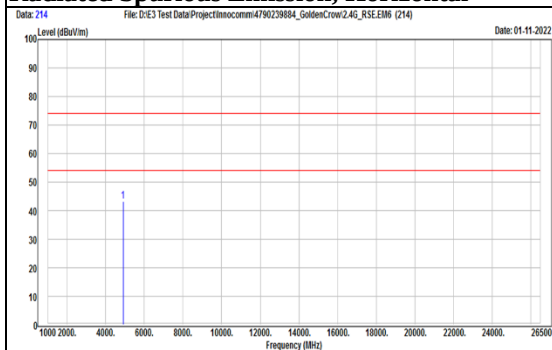
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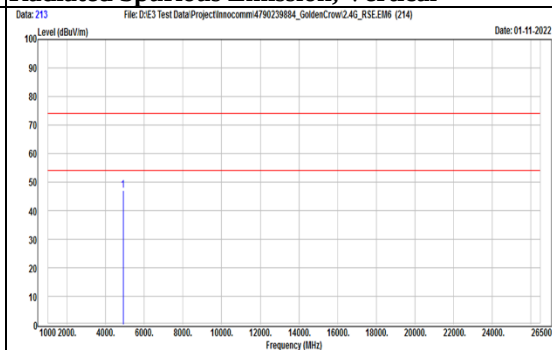
TX, 802.11n(HT40) (Ch 9)

Radiated Spurious Emission, Horizontal



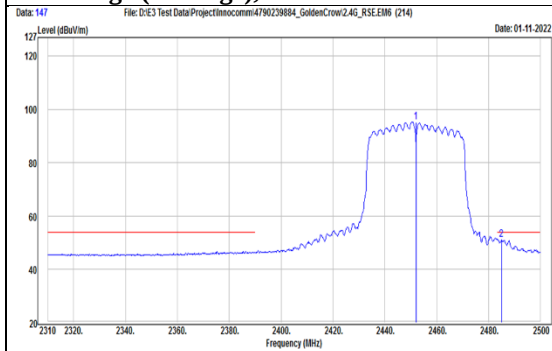
TX, 802.11n(HT40) (Ch 9)

Radiated Spurious Emission, Vertical



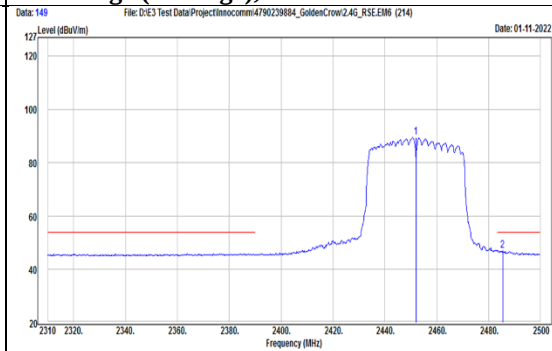
TX, 802.11n(HT40) (Ch 9)

Band Edge (Average), Horizontal



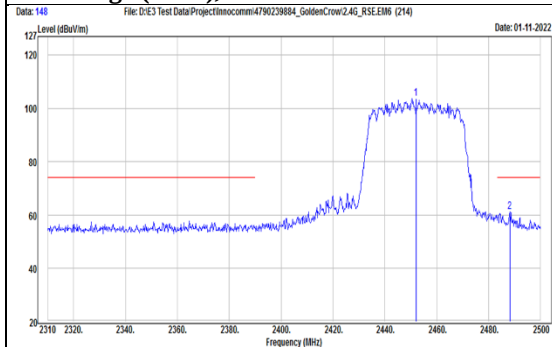
TX, 802.11n(HT40) (Ch 9)

Band Edge (Average), Vertical



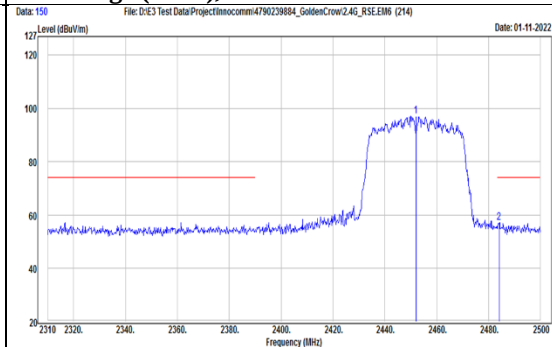
TX, 802.11n(HT40) (Ch 9)

Band Edge (Peak), Horizontal



TX, 802.11n(HT40) (Ch 9)

Band Edge (Peak), Vertical





Below 1 GHz

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		64.92	44.56	-12.8	31.76	40	-8.24	PK
		137.67	51.29	-12.33	38.96	43.5	-4.54	PK
		144.46	50.65	-11.81	38.84	43.5	-4.66	PK
		236.61	51.62	-12.2	39.42	46	-6.58	PK
		264.74	51.4	-11.17	40.23	46	-5.77	PK
		480.08	38.85	-5.19	33.66	46	-12.34	PK
Vertical		36.79	49.68	-12.05	37.63	40	-2.37	PK
		44.55	50.92	-11.34	39.58	40	-0.42	PK
		63.95	50.15	-12.62	37.53	40	-2.47	PK
		145.43	43.54	-11.7	31.84	43.5	-11.66	PK
		365.62	41.77	-7.98	33.79	46	-12.21	PK
		404.42	42.39	-6.87	35.52	46	-10.48	PK

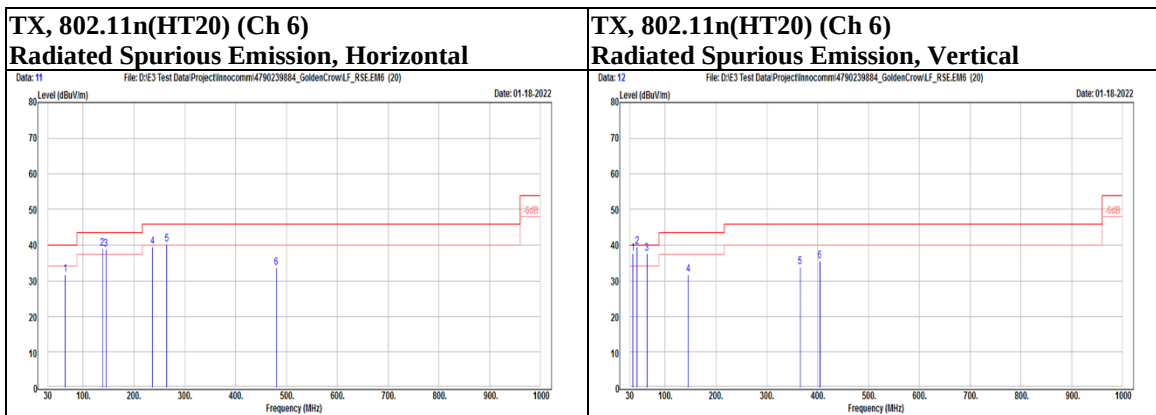
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9 kHz ~ 30 MHz Data:

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.

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

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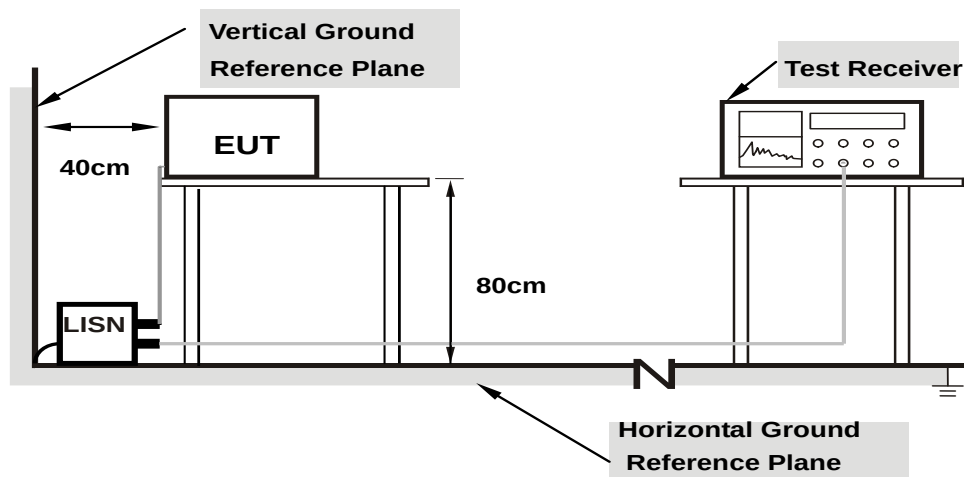
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Test Setup



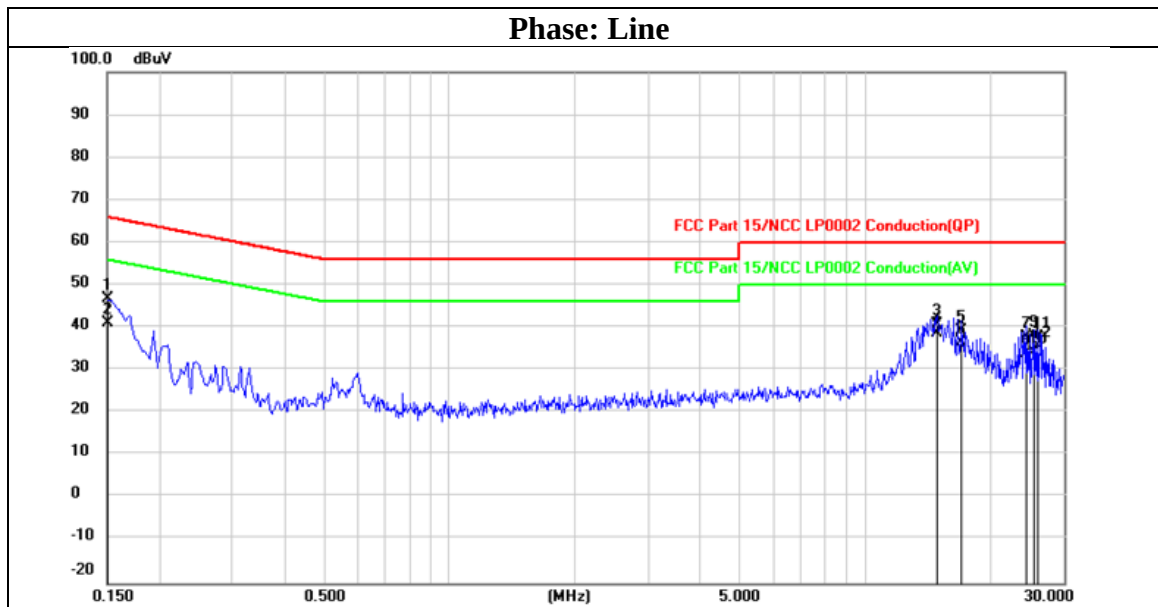
Note: 1.Support units were connected to second LISN.

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



Test Data

Mode	11n20_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1503	27.33	19.49	46.82	65.98	-19.16	QP
2	0.1503	21.64	19.49	41.13	55.98	-14.85	AVG
3	14.8636	21.11	19.75	40.86	60.00	-19.14	QP
4	14.8636	18.91	19.75	38.66	50.00	-11.34	AVG
5	17.0789	19.56	19.75	39.31	60.00	-20.69	QP
6	17.0789	16.69	19.75	36.44	50.00	-13.56	AVG
7	24.4635	17.96	19.76	37.72	60.00	-22.28	QP
8	24.4635	14.21	19.76	33.97	50.00	-16.03	AVG
9	25.5677	18.28	19.75	38.03	60.00	-21.97	QP
10	25.5677	14.30	19.75	34.05	50.00	-15.95	AVG
11	25.9358	18.02	19.76	37.78	60.00	-22.22	QP
12	25.9358	15.79	19.76	35.55	50.00	-14.45	AVG

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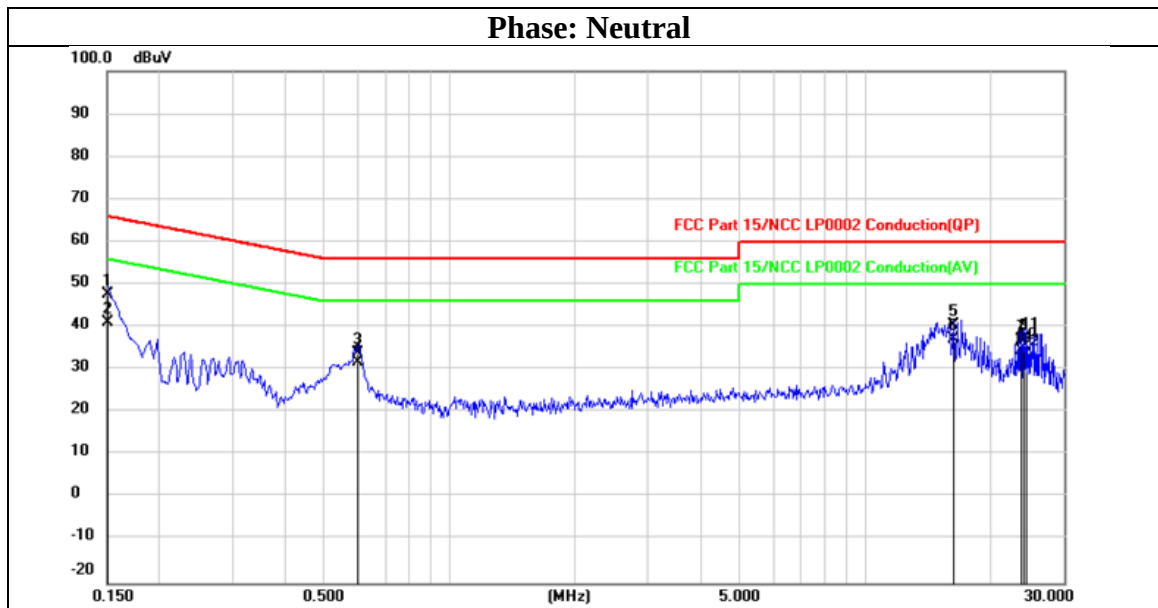
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Mode	11n20_TX2437	Channel	6
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1505	28.29	19.49	47.78	65.97	-18.19	QP
2	0.1505	21.68	19.49	41.17	55.97	-14.80	AVG
3	0.6034	14.41	19.50	33.91	56.00	-22.09	QP
4	0.6034	12.18	19.50	31.68	46.00	-14.32	AVG
5	16.2469	20.63	19.79	40.42	60.00	-19.58	QP
6	16.2469	17.38	19.79	37.17	50.00	-12.83	AVG
7	23.7203	16.94	19.85	36.79	60.00	-23.21	QP
8	23.7203	14.46	19.85	34.31	50.00	-15.69	AVG
9	24.0953	17.28	19.86	37.14	60.00	-22.86	QP
10	24.0953	15.22	19.86	35.08	50.00	-14.92	AVG
11	24.4635	17.46	19.86	37.32	60.00	-22.68	QP
12	24.4635	13.68	19.86	33.54	50.00	-16.46	AVG

END OF REPORT

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