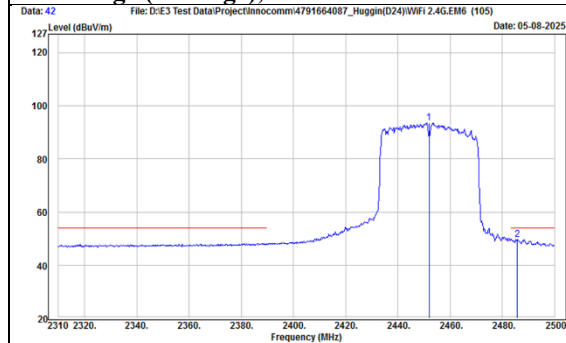


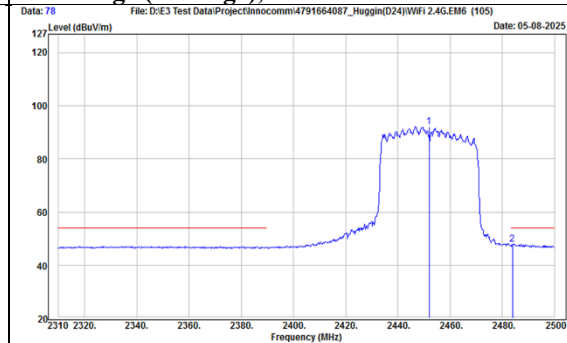
Mode	802.11ac(VHT40)	Channel	9
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	82.72	19.2	101.92	N/A	N/A	PK
	@	2452	74.48	19.2	93.68	N/A	N/A	AVG
		2485.75	30.52	19.19	49.71	54	-4.29	AVG
		2485.94	41.48	19.19	60.67	74	-13.33	PK
Vertical	@	2452	81.31	19.2	100.51	N/A	N/A	PK
	@	2452	72.83	19.2	92.03	N/A	N/A	AVG
		2483.85	28.79	19.19	47.98	54	-6.02	AVG
		2491.45	40.3	19.19	59.49	74	-14.51	PK

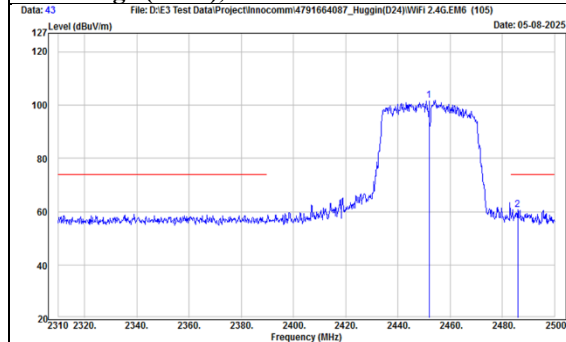
TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Average), Horizontal



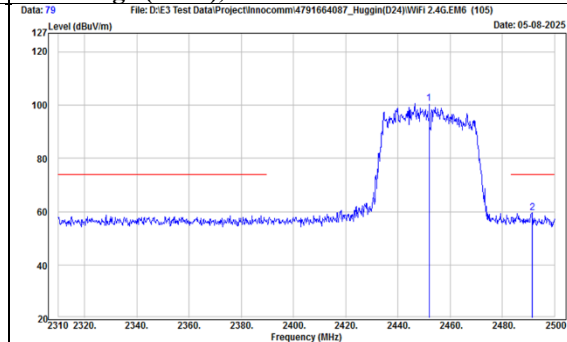
TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Average), Vertical



TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Peak), Horizontal

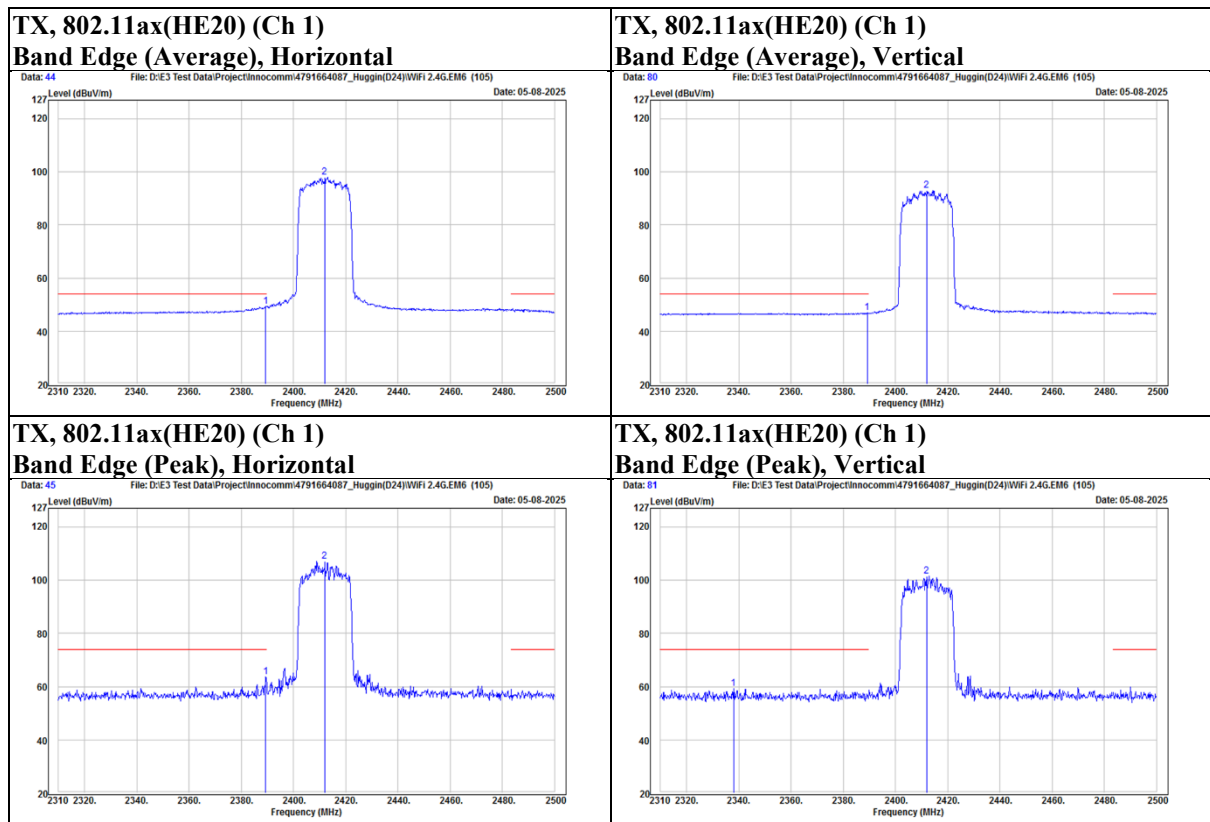


TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Peak), Vertical



Mode	802.11ax(HE20)	Channel	1
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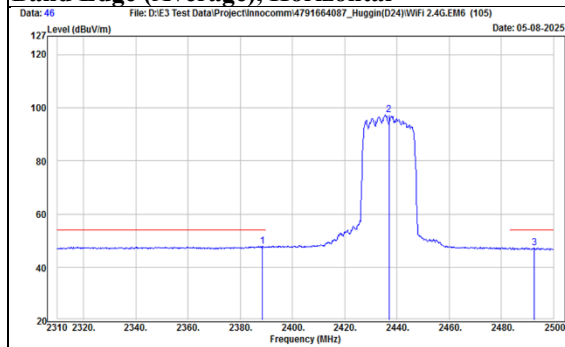
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.42	44.45	19.17	63.62	74	-10.38	PK
		2389.42	30.28	19.17	49.45	54	-4.55	AVG
	@	2412	87.84	19.14	106.98	N/A	N/A	PK
	@	2412	78.9	19.14	98.04	N/A	N/A	AVG
Vertical		2338.12	40.04	19.38	59.42	74	-14.58	PK
		2389.23	27.73	19.18	46.91	54	-7.09	AVG
	@	2412	82.23	19.14	101.37	N/A	N/A	PK
	@	2412	73.86	19.14	93	N/A	N/A	AVG



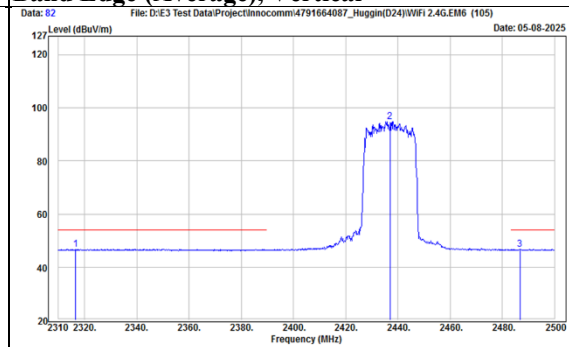
Mode	802.11ax(HE20)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2373.27	40.01	19.27	59.28	74	-14.72	PK
		2388.47	28.59	19.18	47.77	54	-6.23	AVG
	@	2437	87.66	19.18	106.84	N/A	N/A	PK
	@	2437	78.09	19.18	97.27	N/A	N/A	AVG
		2492.59	28.12	19.19	47.31	54	-6.69	AVG
		2494.3	39.05	19.19	58.24	74	-15.76	PK
Vertical		2316.65	27.44	19.33	46.77	54	-7.23	AVG
		2361.3	39.45	19.34	58.79	74	-15.21	PK
	@	2437	84.61	19.18	103.79	N/A	N/A	PK
	@	2437	75.64	19.18	94.82	N/A	N/A	AVG
		2486.7	27.55	19.19	46.74	54	-7.26	AVG
		2499.24	39.02	19.19	58.21	74	-15.79	PK

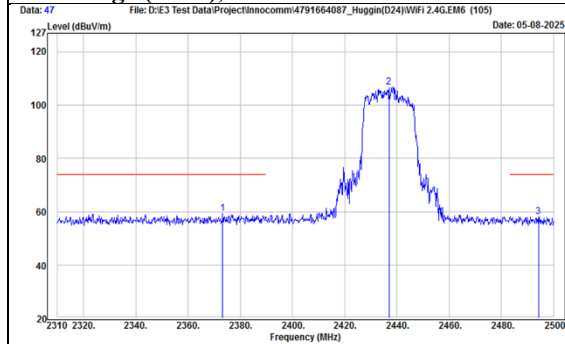
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Average), Horizontal



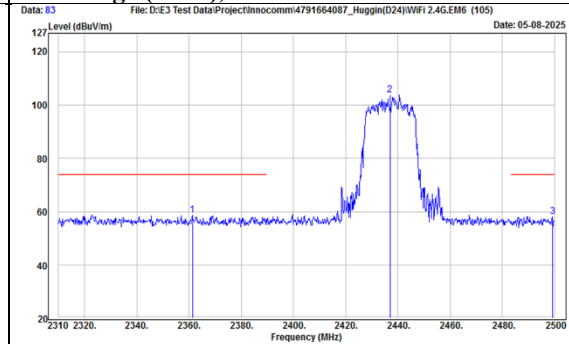
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11ax(HE20) (Ch 6)
Band Edge (Peak), Horizontal



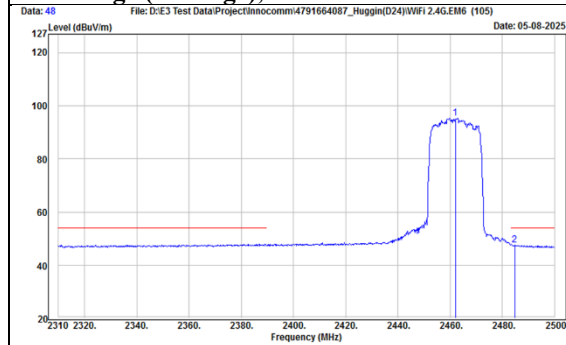
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Peak), Vertical



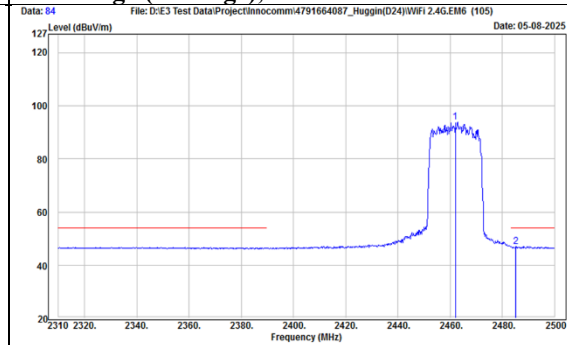
Mode	802.11ax(HE20)	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	85.57	19.19	104.76	N/A	N/A	PK
	@	2462	76.04	19.19	95.23	N/A	N/A	AVG
		2484.8	28.5	19.19	47.69	54	-6.31	AVG
		2484.99	40.59	19.19	59.78	74	-14.22	PK
Vertical	@	2462	81.98	19.19	101.17	N/A	N/A	PK
	@	2462	74.68	19.19	93.87	N/A	N/A	AVG
		2485.18	27.83	19.19	47.02	54	-6.98	AVG
		2491.45	40.26	19.19	59.45	74	-14.55	PK

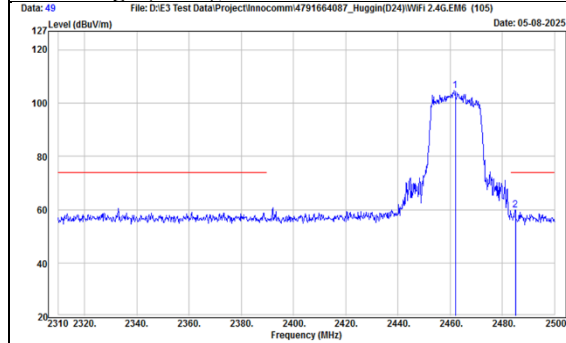
TX, 802.11ax(HE20) (Ch 11)
Band Edge (Average), Horizontal



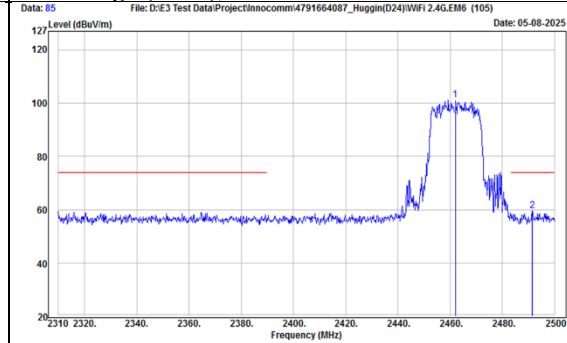
TX, 802.11ax(HE20) (Ch 11)
Band Edge (Average), Vertical



TX, 802.11ax(HE20) (Ch 11)
Band Edge (Peak), Horizontal



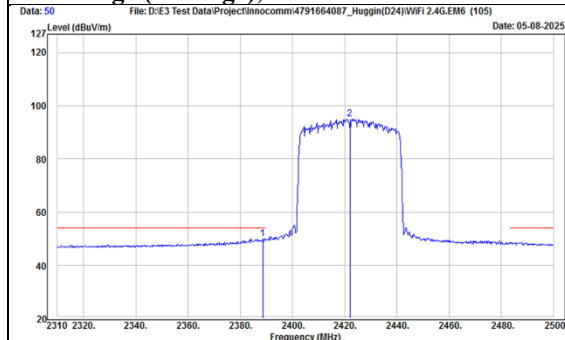
TX, 802.11ax(HE20) (Ch 11)
Band Edge (Peak), Vertical



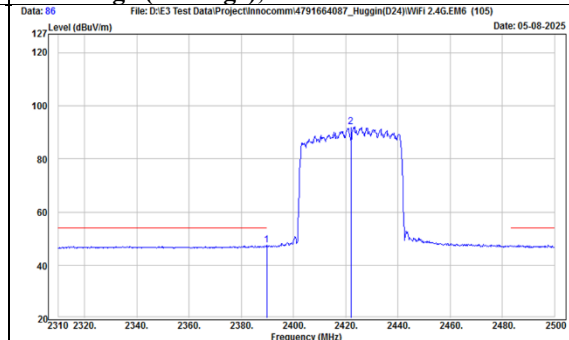
Mode	802.11ax(HE40)	Channel	3
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2388.66	30.81	19.18	49.99	54	-4.01	AVG
		2389.61	45.05	19.17	64.22	74	-9.78	PK
	@	2422	85.95	19.16	105.11	N/A	N/A	PK
	@	2422	75.79	19.16	94.95	N/A	N/A	AVG
Vertical		2389.8	43.93	19.17	63.1	74	-10.9	PK
		2389.8	28.27	19.17	47.44	54	-6.56	AVG
	@	2422	81.5	19.16	100.66	N/A	N/A	PK
	@	2422	73.09	19.16	92.25	N/A	N/A	AVG

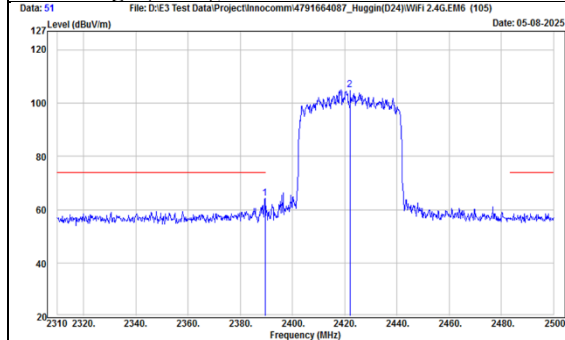
TX, 802.11ax(HE40) (Ch 3)
Band Edge (Average), Horizontal



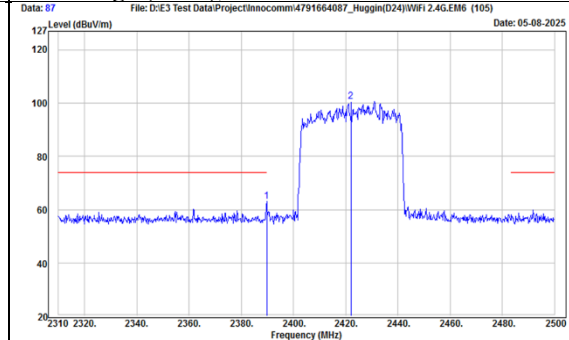
TX, 802.11ax(HE40) (Ch 3)
Band Edge (Average), Vertical



TX, 802.11ax(HE40) (Ch 3)
Band Edge (Peak), Horizontal



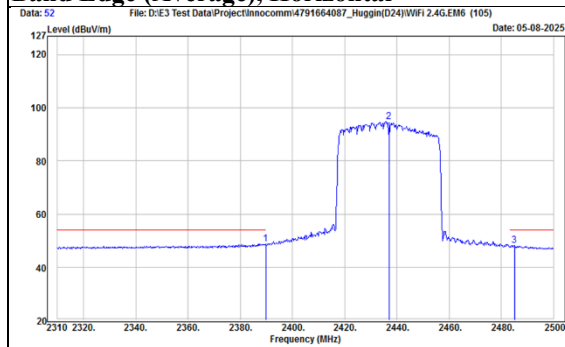
TX, 802.11ax(HE40) (Ch 3)
Band Edge (Peak), Vertical



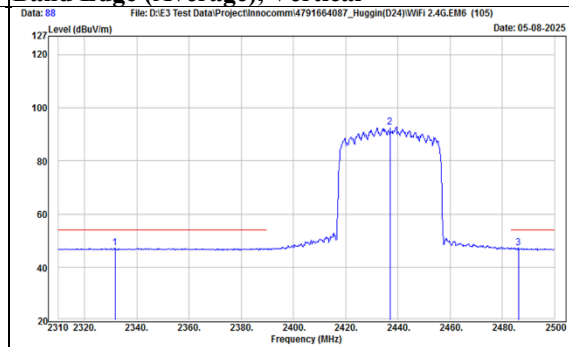
Mode	802.11ax(HE40)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2380.3	40.37	19.23	59.6	74	-14.4	PK
		2389.8	29.62	19.17	48.79	54	-5.21	AVG
	@	2437	84.15	19.18	103.33	N/A	N/A	PK
	@	2437	75.47	19.18	94.65	N/A	N/A	AVG
		2484.99	28.93	19.19	48.12	54	-5.88	AVG
		2494.3	40.11	19.19	59.3	74	-14.7	PK
Vertical		2331.66	27.79	19.36	47.15	54	-6.85	AVG
		2358.26	40.37	19.35	59.72	74	-14.28	PK
	@	2437	80.53	19.18	99.71	N/A	N/A	PK
	@	2437	73.46	19.18	92.64	N/A	N/A	AVG
		2486.13	28.01	19.19	47.2	54	-6.8	AVG
		2489.36	40	19.19	59.19	74	-14.81	PK

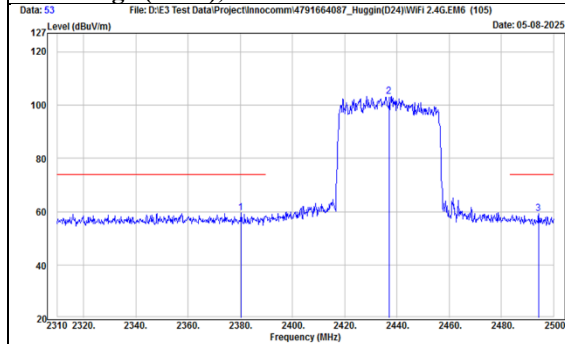
TX, 802.11ax(HE40) (Ch 6)
Band Edge (Average), Horizontal



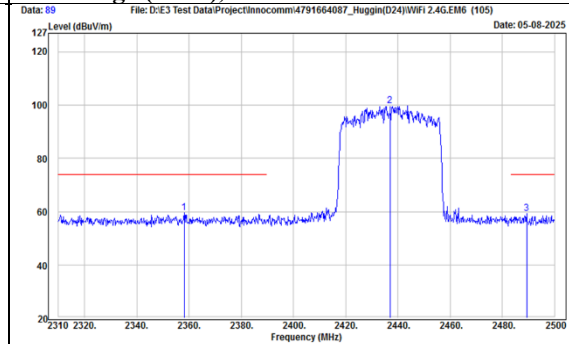
TX, 802.11ax(HE40) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11ax(HE40) (Ch 6)
Band Edge (Peak), Horizontal

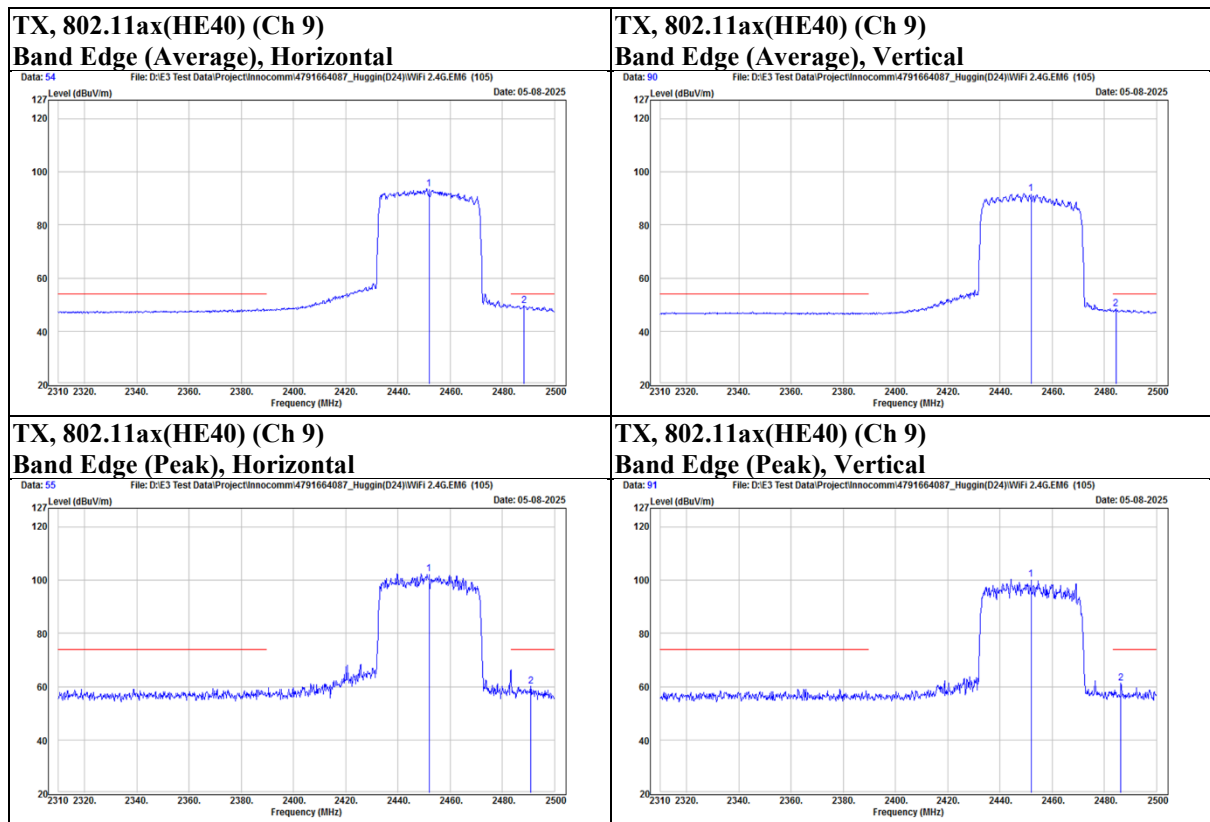


TX, 802.11ax(HE40) (Ch 6)
Band Edge (Peak), Vertical



Mode	802.11ax(HE40)	Channel	9
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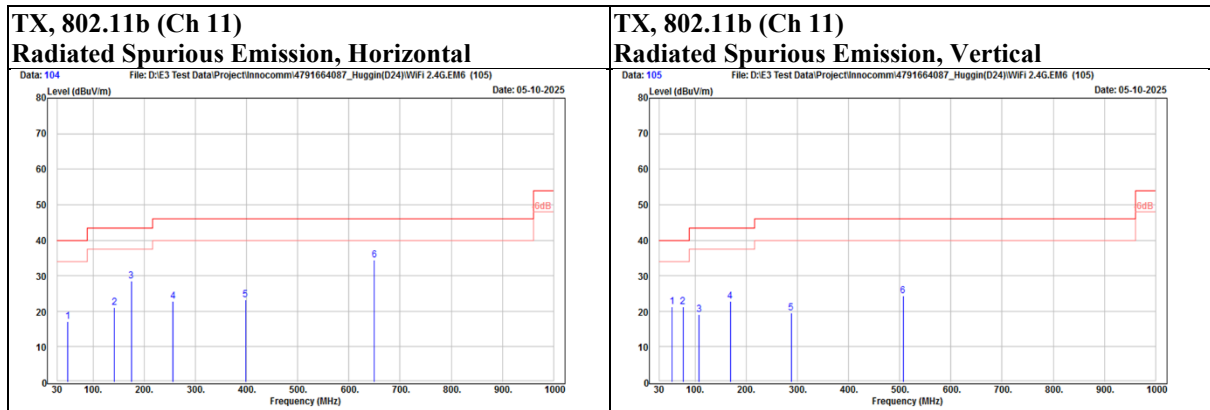
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	83.24	19.2	102.44	N/A	N/A	PK
	@	2452	74.28	19.2	93.48	N/A	N/A	AVG
		2488.41	30.36	19.19	49.55	54	-4.45	AVG
		2490.88	40.85	19.19	60.04	74	-13.96	PK
Vertical	@	2452	81.24	19.2	100.44	N/A	N/A	PK
	@	2452	72.72	19.2	91.92	N/A	N/A	AVG
		2484.42	29.32	19.19	48.51	54	-5.49	AVG
		2486.32	42.28	19.19	61.47	74	-12.53	PK



Below 1 GHz

Mode	802.11b	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		50.37	37.72	-20.63	17.09	40	-22.91	PK
		141.55	41.56	-20.5	21.06	43.5	-22.44	PK
		174.53	49.43	-20.86	28.57	43.5	-14.93	PK
		256.01	43.4	-20.62	22.78	46	-23.22	PK
		397.63	39.43	-16.15	23.28	46	-22.72	PK
		649.83	44.26	-9.84	34.42	46	-11.58	PK
Vertical		55.22	42.13	-20.77	21.36	40	-18.64	PK
		76.56	45.5	-24.18	21.32	40	-18.68	PK
		107.6	42.9	-23.75	19.15	43.5	-24.35	PK
		168.71	43.19	-20.36	22.83	43.5	-20.67	PK
		288.02	38.71	-19.17	19.54	46	-26.46	PK
		506.27	37.72	-13.35	24.37	46	-21.63	PK



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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

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:

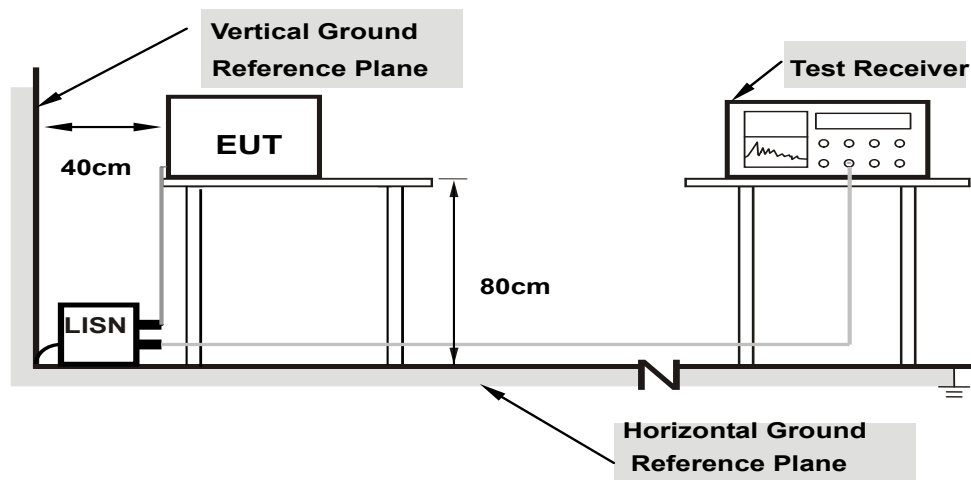
1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (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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Test Setup

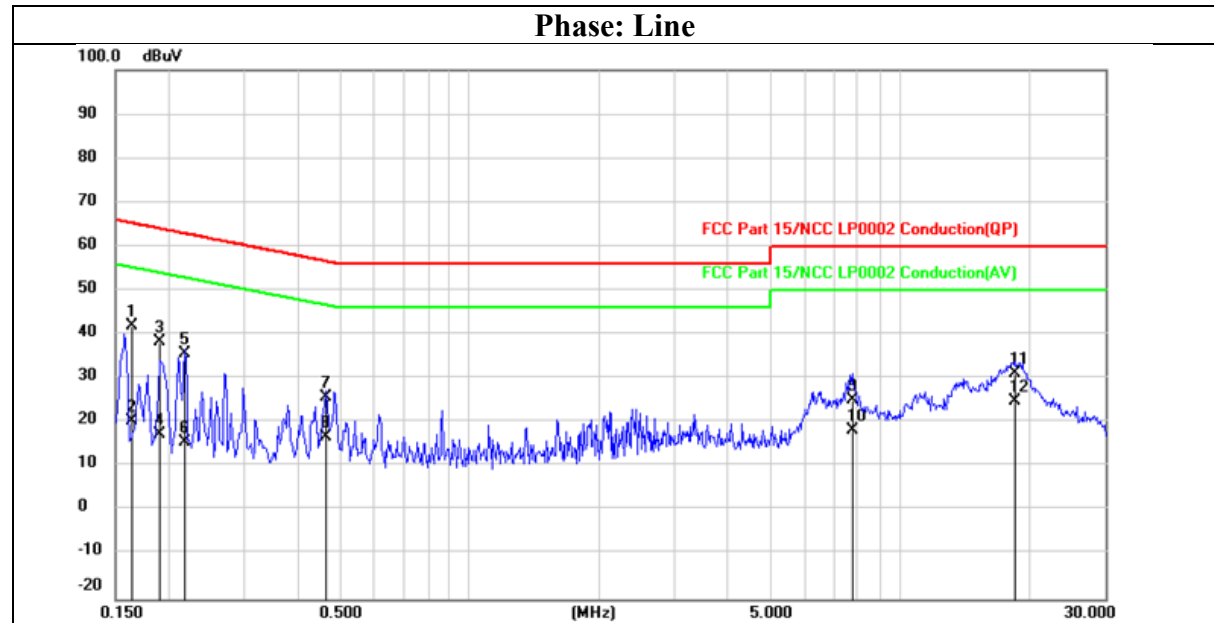


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	11ax40_TX2452	Channel	9
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1626	31.87	9.96	41.83	65.33	-23.50	QP
2	0.1626	10.42	9.96	20.38	55.33	-34.95	AVG
3	0.1894	28.36	9.96	38.32	64.06	-25.74	QP
4	0.1894	7.42	9.96	17.38	54.06	-36.68	AVG
5	0.2167	25.58	9.96	35.54	62.94	-27.40	QP
6	0.2167	5.73	9.96	15.69	52.94	-37.25	AVG
7	0.4631	15.92	9.97	25.89	56.64	-30.75	QP
8	0.4631	6.69	9.97	16.66	46.64	-29.98	AVG
9	7.7540	14.92	10.21	25.13	60.00	-34.87	QP
10	7.7540	8.18	10.21	18.39	50.00	-31.61	AVG
11	18.5846	20.64	10.50	31.14	60.00	-28.86	QP
12	18.5846	14.21	10.50	24.71	50.00	-25.29	AVG

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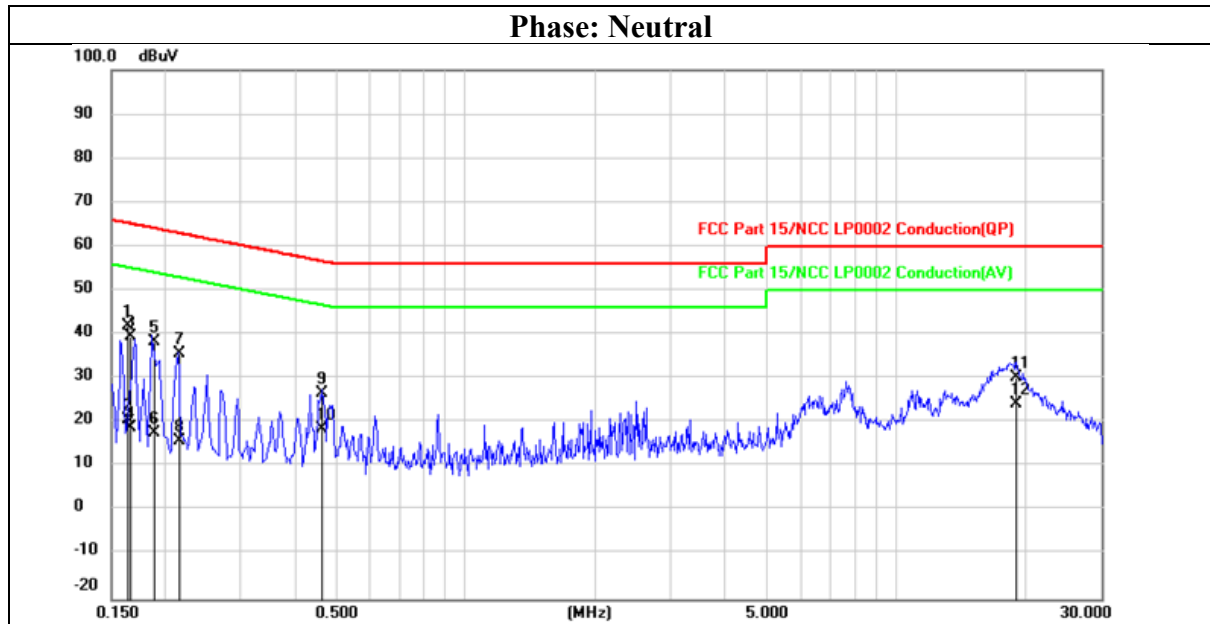
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Mode	11ax40_TX2452	Channel	9
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1623	32.14	9.94	42.08	65.35	-23.27	QP
2	0.1623	10.74	9.94	20.68	55.35	-34.67	AVG
3	0.1652	29.49	9.94	39.43	65.20	-25.77	QP
4	0.1652	8.96	9.94	18.90	55.20	-36.30	AVG
5	0.1895	28.47	9.94	38.41	64.06	-25.65	QP
6	0.1895	7.62	9.94	17.56	54.06	-36.50	AVG
7	0.2165	25.62	9.94	35.56	62.95	-27.39	QP
8	0.2165	5.85	9.94	15.79	52.95	-37.16	AVG
9	0.4638	16.63	9.95	26.58	56.62	-30.04	QP
10	0.4638	8.55	9.95	18.50	46.62	-28.12	AVG
11	19.0770	19.80	10.49	30.29	60.00	-29.71	QP
12	19.0770	13.79	10.49	24.28	50.00	-25.72	AVG

END OF REPORT

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