

Mode	802.11g	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		2388.85	44.14	18.15	62.29	74	-11.71	PK
		2389.8	32.23	18.15	50.38	54	-3.62	AVG
	@	2412	88.9	18.08	106.98	N/A	N/A	PK
	@	2412	79.89	18.08	97.97	N/A	N/A	AVG
Vertical		2310.19	41.73	18.23	59.96	74	-14.04	PK
		2389.61	31.65	18.15	49.8	54	-4.2	AVG
	@	2412	85.53	18.08	103.61	N/A	N/A	PK
	@	2412	78.42	18.08	96.5	N/A	N/A	AVG

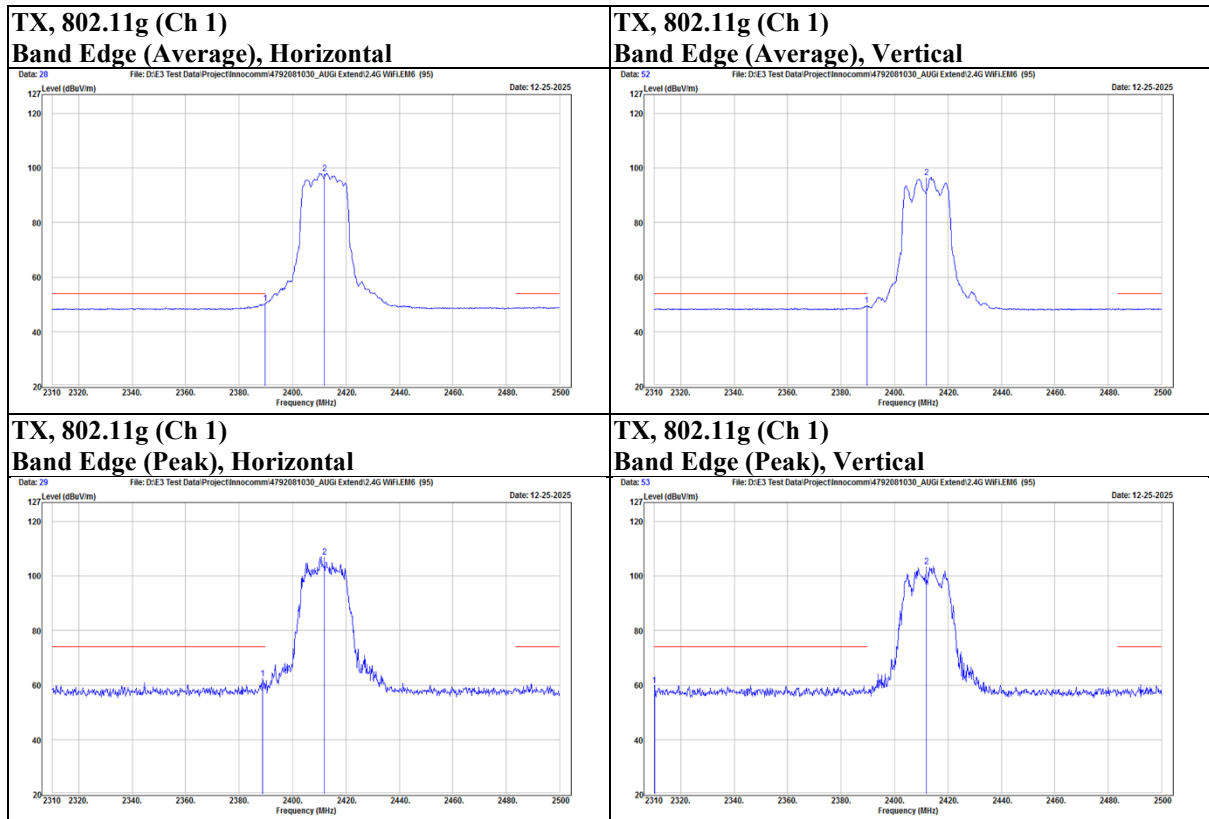
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1



Mode	802.11g	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		2341.16	30.31	18.23	48.54	54	-5.46	AVG
		2389.61	41.8	18.15	59.95	74	-14.05	PK
	@	2437	89.18	17.98	107.16	N/A	N/A	PK
	@	2437	80.55	17.98	98.53	N/A	N/A	AVG
		2495.82	42.25	18.02	60.27	74	-13.73	PK
		2497.15	31.11	18.02	49.13	54	-4.87	AVG
Vertical		2359.21	30.3	18.21	48.51	54	-5.49	AVG
		2383.91	41.72	18.16	59.88	74	-14.12	PK
	@	2437	86.12	17.98	104.1	N/A	N/A	PK
	@	2437	78.88	17.98	96.86	N/A	N/A	AVG
		2485.18	41.61	18	59.61	74	-14.39	PK
		2499.62	30.57	18.03	48.6	54	-5.4	AVG

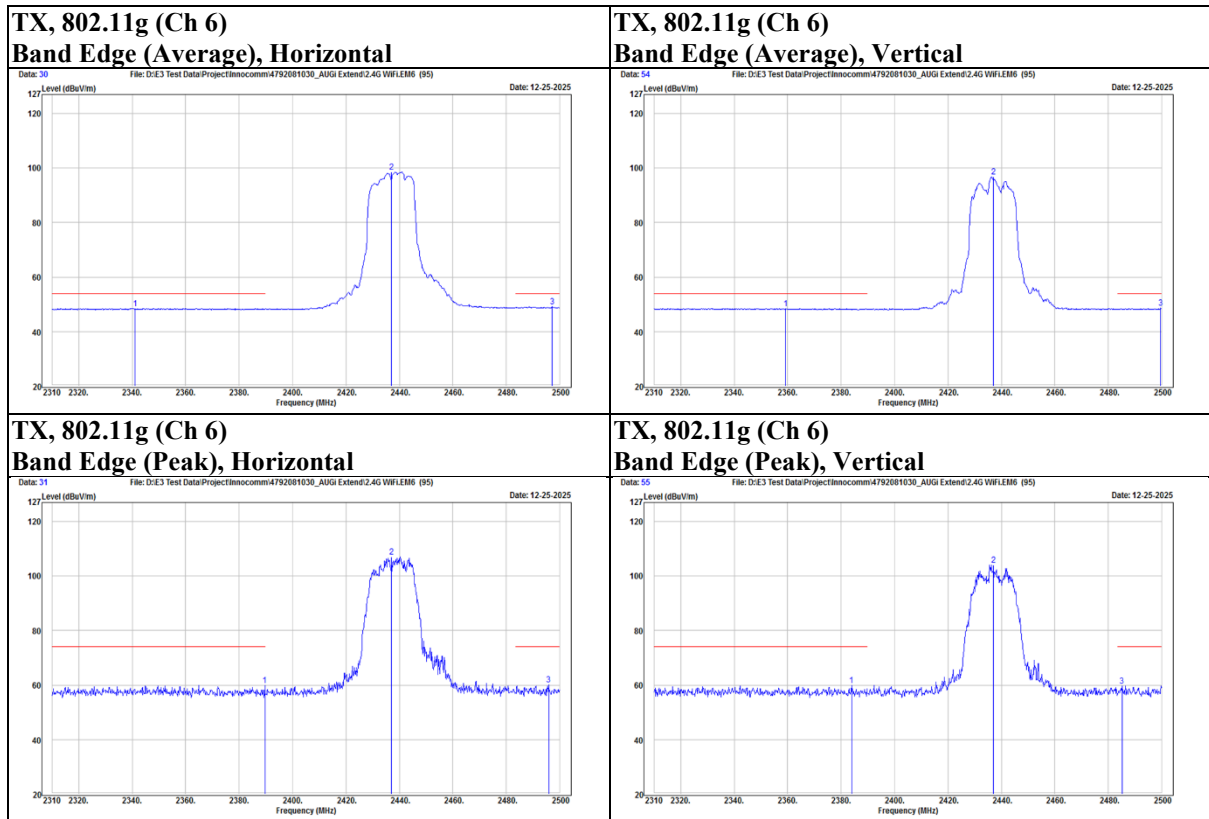
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Mode	802.11g	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	90.83	17.96	108.79	N/A	N/A	PK
	@	2462	83.17	17.96	101.13	N/A	N/A	AVG
		2483.66	35.28	18	53.28	54	-0.72	AVG
		2483.85	51.64	18	69.64	74	-4.36	PK
Vertical	@	2462	86.05	17.96	104.01	N/A	N/A	PK
	@	2462	77.33	17.96	95.29	N/A	N/A	AVG
		2483.85	31.56	18	49.56	54	-4.44	AVG
		2484.04	42.26	18	60.26	74	-13.74	PK

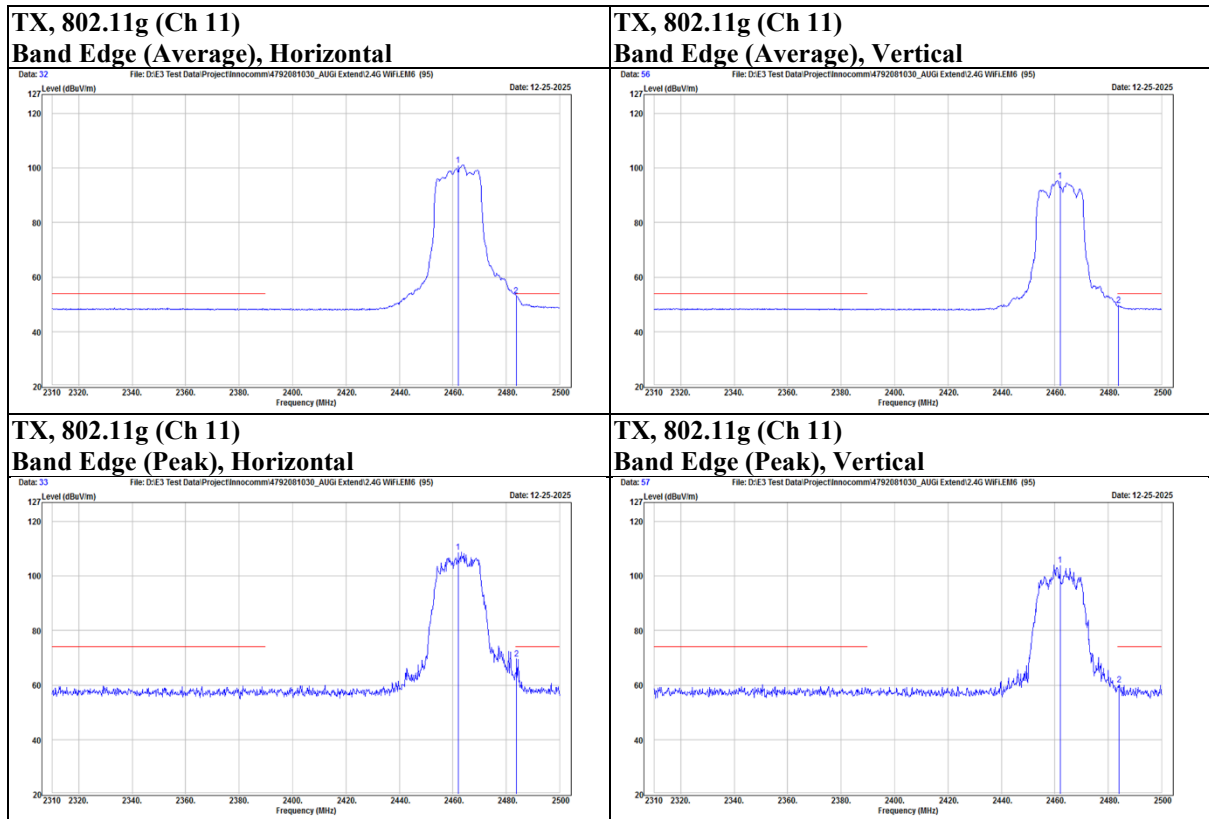
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Mode	802.11g - Emission	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4824	50.4	5.1	55.5	74	-18.5	PK
		4824	42.8	5.1	47.9	54	-6.1	AVG
		14500	27.97	28.9	56.87	74	-17.13	PK
		14500	19.7	28.9	48.6	54	-5.4	AVG
		15340	28.33	26.5	54.83	74	-19.17	PK
		15340	19.5	26.5	46	54	-8	AVG
	*	16884	33.63	5.54	39.17	74	-34.83	PK
	*	19296	33.11	3.66	36.77	74	-37.23	PK
	*	21708	32.63	6.18	38.81	74	-35.19	PK
	*	24120	32.49	11.03	43.52	74	-30.48	PK
Vertical	*	4824	43.41	5.1	48.51	74	-25.49	PK
		14470	27.8	28.86	56.66	74	-17.34	PK
		14470	19.53	28.86	48.39	54	-5.61	AVG
		15310	28.29	26.72	55.01	74	-18.99	PK
		15310	19.46	26.72	46.18	54	-7.82	AVG
	*	16884	33.5	5.54	39.04	74	-34.96	PK
	*	19296	33.36	3.66	37.02	74	-36.98	PK
	*	21708	33.25	6.18	39.43	74	-34.57	PK
	*	24120	33.21	11.03	44.24	74	-29.76	PK

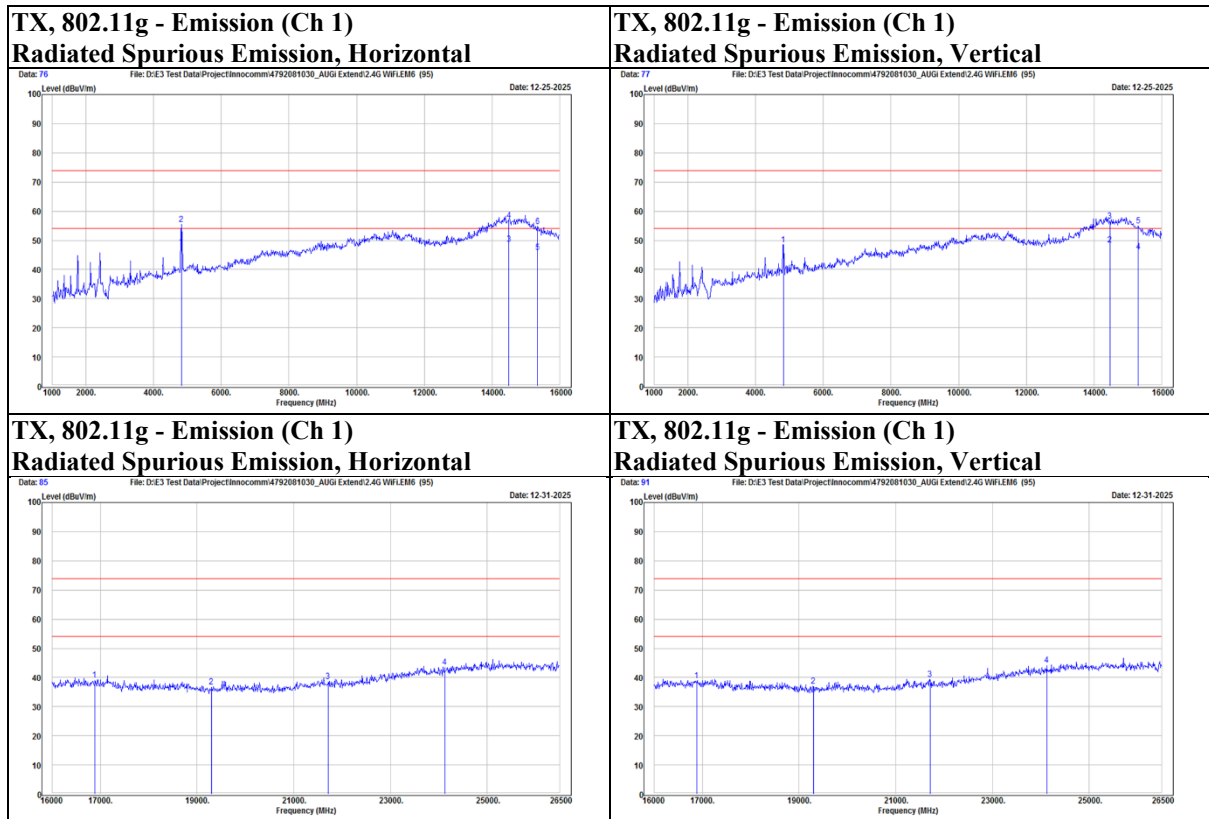
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Mode	802.11g - Emission	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4874	48.52	5.45	53.97	74	-20.03	PK
		14500	27.57	28.9	56.47	74	-17.53	PK
		14500	19.3	28.9	48.2	54	-5.8	AVG
		15325	28.75	26.62	55.37	74	-18.63	PK
		15325	19.92	26.62	46.54	54	-7.46	AVG
	*	17059	33.12	5.36	38.48	74	-35.52	PK
	*	19496	33.18	3.99	37.17	74	-36.83	PK
	*	21933	32.08	6.24	38.32	74	-35.68	PK
	*	24370	32.01	11.82	43.83	74	-30.17	PK
Vertical	*	4874	45.3	5.45	50.75	74	-23.25	PK
		14485	27.63	28.88	56.51	74	-17.49	PK
		14485	19.36	28.88	48.24	54	-5.76	AVG
		15370	28.28	26.28	54.56	74	-19.44	PK
		15370	19.45	26.28	45.73	54	-8.27	AVG
	*	17059	33.65	5.36	39.01	74	-34.99	PK
	*	19496	33.53	3.99	37.52	74	-36.48	PK
	*	21933	32.56	6.24	38.8	74	-35.2	PK
	*	24370	31.58	11.82	43.4	74	-30.6	PK

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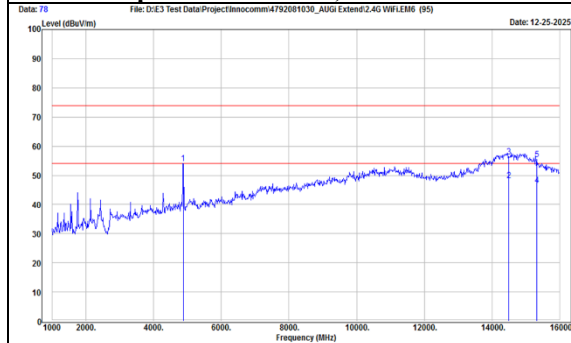
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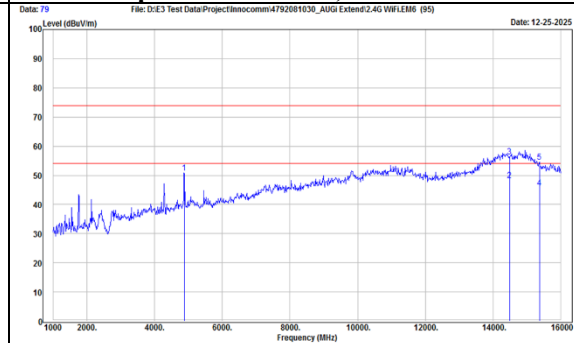
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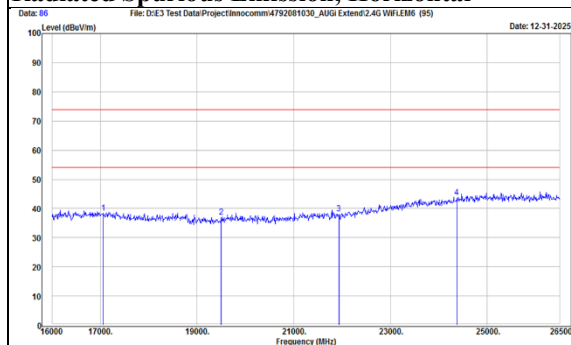
TX, 802.11g - Emission (Ch 6)
Radiated Spurious Emission, Horizontal



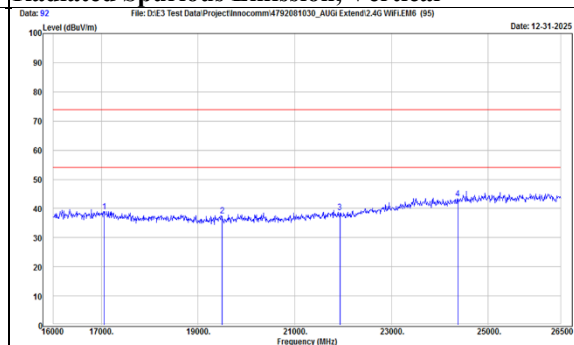
TX, 802.11g - Emission (Ch 6)
Radiated Spurious Emission, Vertical



TX, 802.11g - Emission (Ch 6)
Radiated Spurious Emission, Horizontal



TX, 802.11g - Emission (Ch 6)
Radiated Spurious Emission, Vertical



Mode	802.11g - Emission	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	*	4924	43.64	5.81	49.45	74	-24.55	PK
		14485	28.58	28.88	57.46	74	-16.54	PK
		14485	20.31	28.88	49.19	54	-4.81	AVG
		15400	28.2	26.06	54.26	74	-19.74	PK
		15400	19.37	26.06	45.43	54	-8.57	AVG
	*	17234	33.79	5.16	38.95	74	-35.05	PK
	*	19696	33.84	3.98	37.82	74	-36.18	PK
	*	22158	32.18	6.6	38.78	74	-35.22	PK
Vertical	*	24620	31.86	12.38	44.24	74	-29.76	PK
	*	4924	40.26	5.81	46.07	74	-27.93	PK
		14500	27.53	28.9	56.43	74	-17.57	PK
		14500	19.26	28.9	48.16	54	-5.84	AVG
		15340	28.38	26.5	54.88	74	-19.12	PK
		15340	19.55	26.5	46.05	54	-7.95	AVG
	*	17234	34.02	5.16	39.18	74	-34.82	PK
	*	19696	33.96	3.98	37.94	74	-36.06	PK
	*	22158	32.93	6.6	39.53	74	-34.47	PK
	*	24620	32.12	12.38	44.5	74	-29.5	PK

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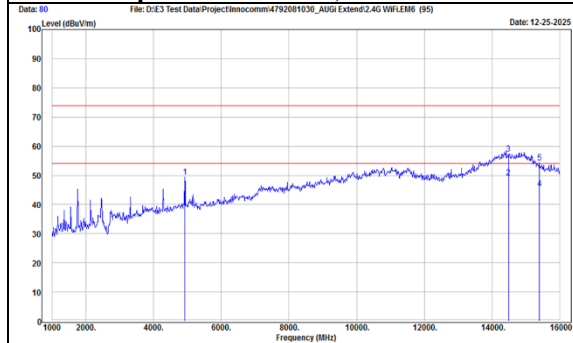
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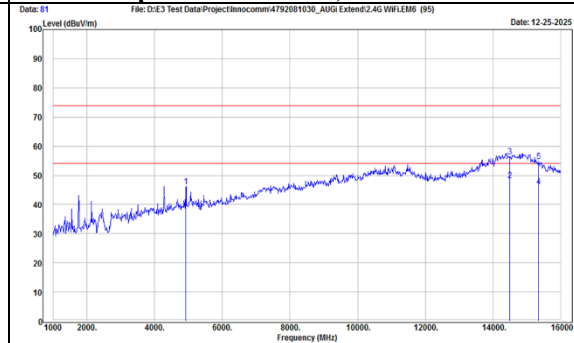
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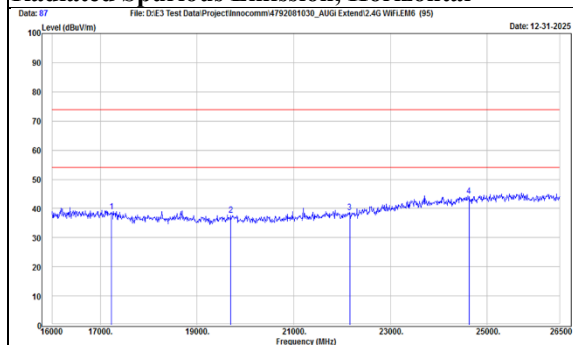
TX, 802.11g - Emission (Ch 11)
Radiated Spurious Emission, Horizontal



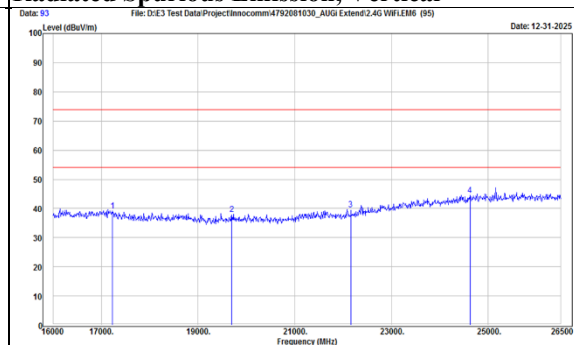
TX, 802.11g - Emission (Ch 11)
Radiated Spurious Emission, Vertical



TX, 802.11g - Emission (Ch 11)
Radiated Spurious Emission, Horizontal



TX, 802.11g - Emission (Ch 11)
Radiated Spurious Emission, Vertical



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		2389.04	44.21	18.15	62.36	74	-11.64	PK
		2389.8	31.81	18.15	49.96	54	-4.04	AVG
	@	2412	85.76	18.08	103.84	N/A	N/A	PK
	@	2412	78.26	18.08	96.34	N/A	N/A	AVG
Vertical		2335.27	41.98	18.23	60.21	74	-13.79	PK
		2389.42	31.07	18.15	49.22	54	-4.78	AVG
	@	2412	82.53	18.08	100.61	N/A	N/A	PK
	@	2412	76.42	18.08	94.5	N/A	N/A	AVG

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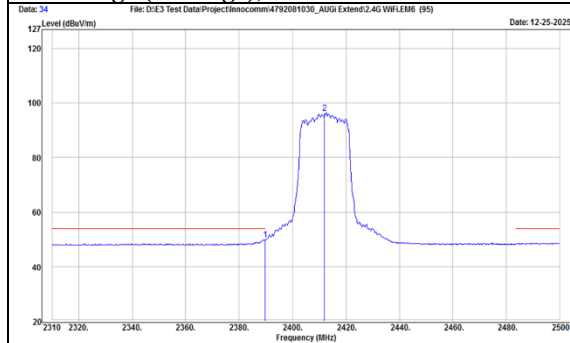
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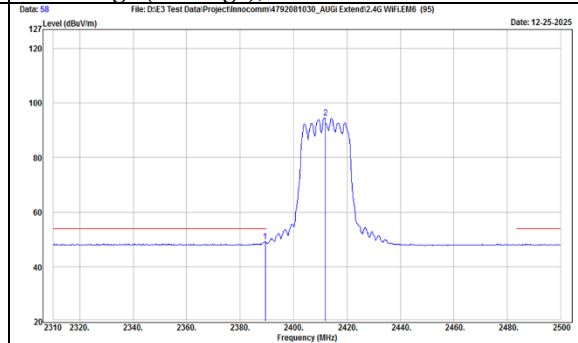
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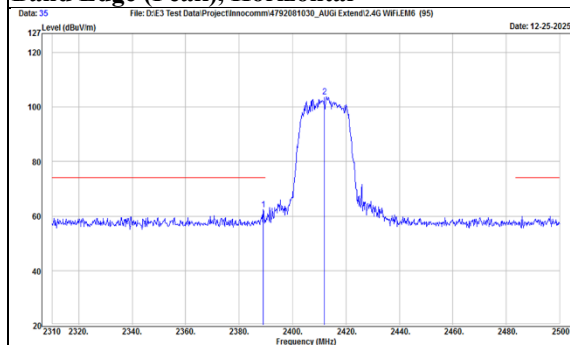
TX, 802.11n(HT20) (Ch 1)
Band Edge (Average), Horizontal



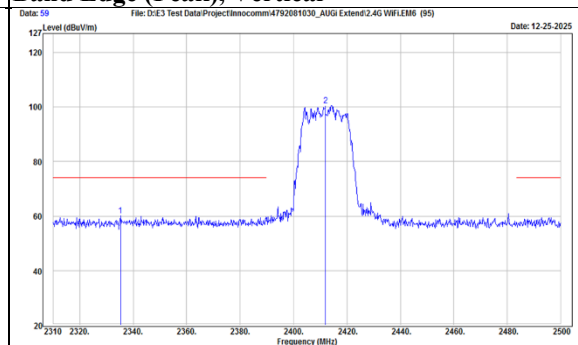
TX, 802.11n(HT20) (Ch 1)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 1)
Band Edge (Peak), Horizontal



TX, 802.11n(HT20) (Ch 1)
Band Edge (Peak), Vertical



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		2329.19	30.02	18.22	48.24	54	-5.76	AVG
		2345.72	41.51	18.23	59.74	74	-14.26	PK
	@	2437	87.09	17.98	105.07	N/A	N/A	PK
	@	2437	79.52	17.98	97.5	N/A	N/A	AVG
		2488.41	42.52	18.01	60.53	74	-13.47	PK
		2498.67	30.77	18.03	48.8	54	-5.2	AVG
Vertical		2312.09	41.78	18.23	60.01	74	-13.99	PK
		2330.71	29.99	18.23	48.22	54	-5.78	AVG
	@	2437	82.11	17.98	100.09	N/A	N/A	PK
	@	2437	76.28	17.98	94.26	N/A	N/A	AVG
		2493.73	41.5	18.02	59.52	74	-14.48	PK
		2499.62	30.16	18.03	48.19	54	-5.81	AVG

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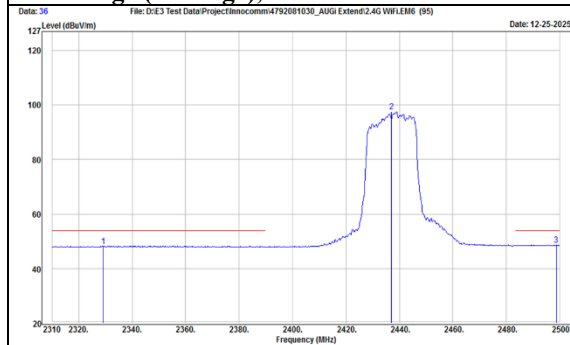
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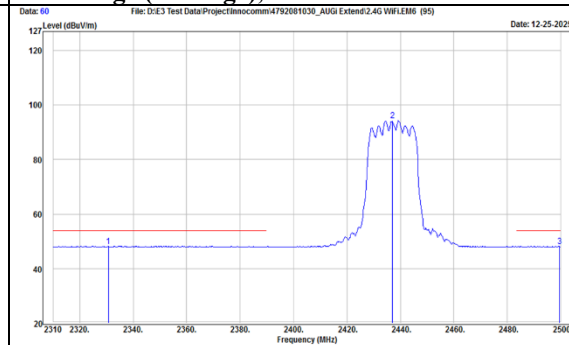
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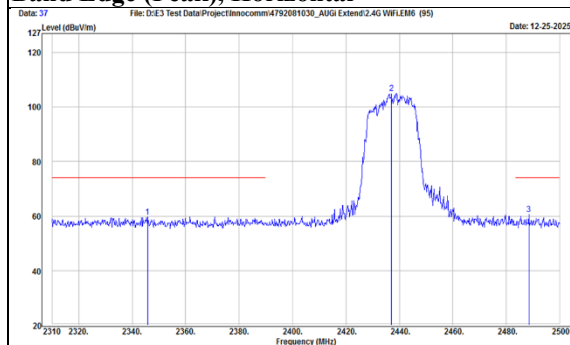
TX, 802.11n(HT20) (Ch 6)
Band Edge (Average), Horizontal



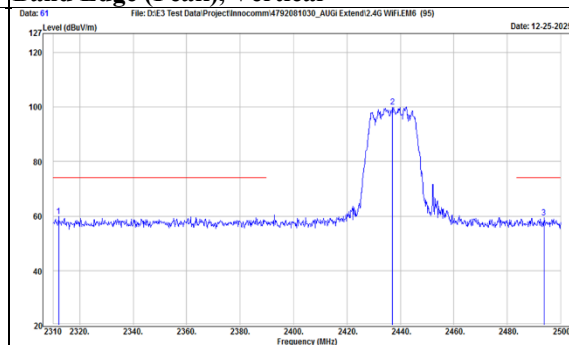
TX, 802.11n(HT20) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 6)
Band Edge (Peak), Horizontal



TX, 802.11n(HT20) (Ch 6)
Band Edge (Peak), Vertical



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	89.13	17.96	107.09	N/A	N/A	PK
	@	2462	81.68	17.96	99.64	N/A	N/A	AVG
		2483.66	34.49	18	52.49	54	-1.51	AVG
		2483.85	46.96	18	64.96	74	-9.04	PK
Vertical	@	2462	82.57	17.96	100.53	N/A	N/A	PK
	@	2462	75.49	17.96	93.45	N/A	N/A	AVG
		2484.23	31.89	18	49.89	54	-4.11	AVG
		2485.56	43.47	18	61.47	74	-12.53	PK

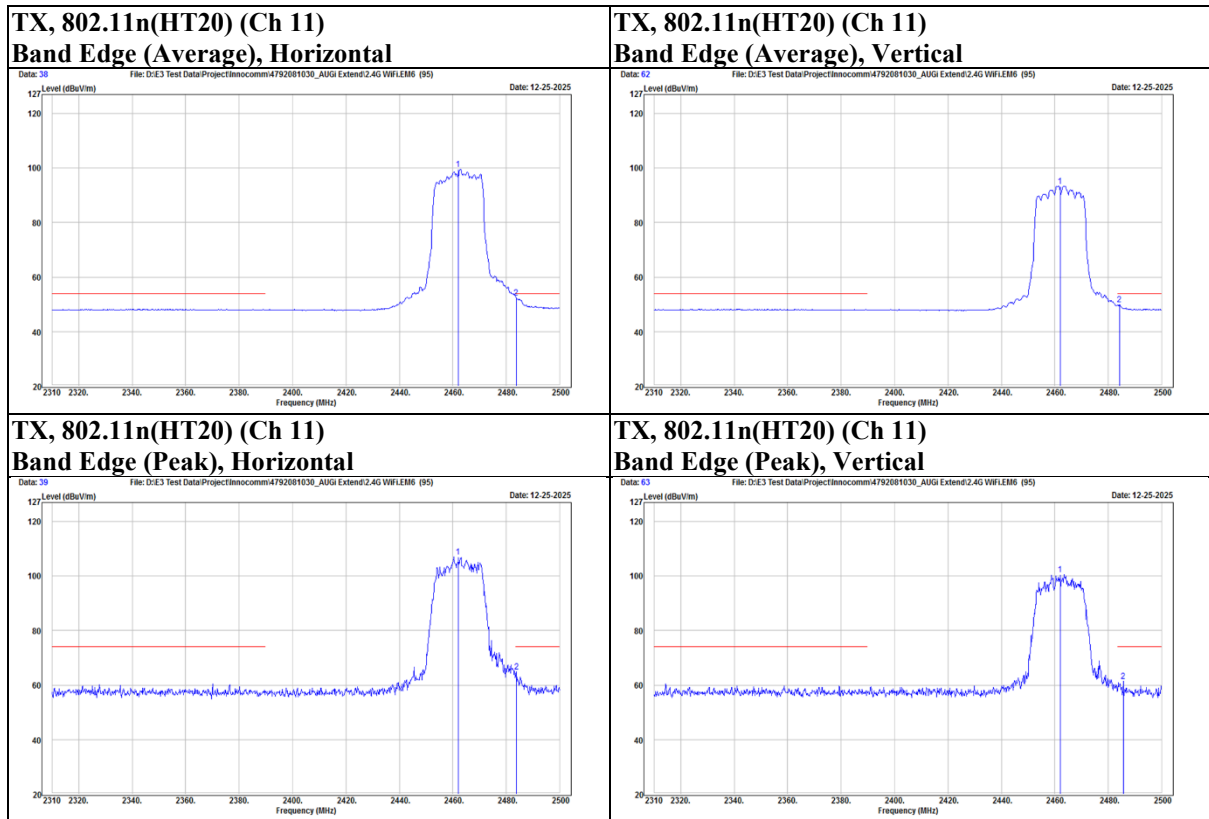
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Mode	802.11ax(HE20)	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.99	43.23	18.15	61.38	74	-12.62	PK
		2389.99	32.56	18.15	50.71	54	-3.29	AVG
	@	2412	86.6	18.08	104.68	N/A	N/A	PK
	@	2412	78.57	18.08	96.65	N/A	N/A	AVG
Vertical		2312.09	42.04	18.23	60.27	74	-13.73	PK
		2389.23	31.5	18.15	49.65	54	-4.35	AVG
	@	2412	84.83	18.08	102.91	N/A	N/A	PK
	@	2412	76.22	18.08	94.3	N/A	N/A	AVG

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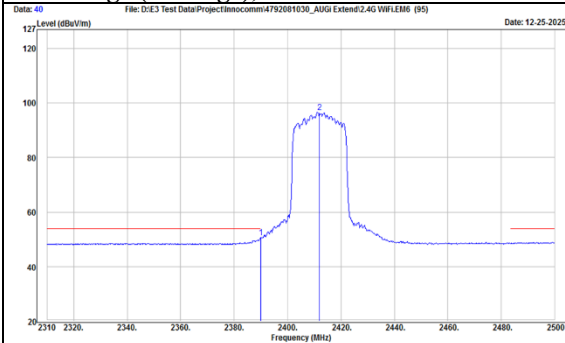
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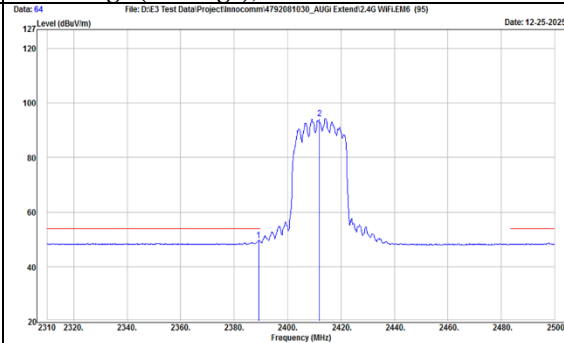
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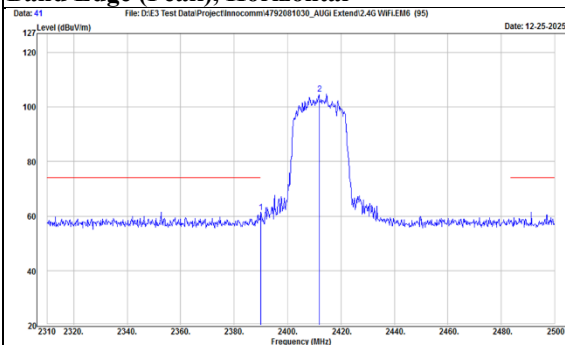
TX, 802.11ax(HE20) (Ch 1)
Band Edge (Average), Horizontal



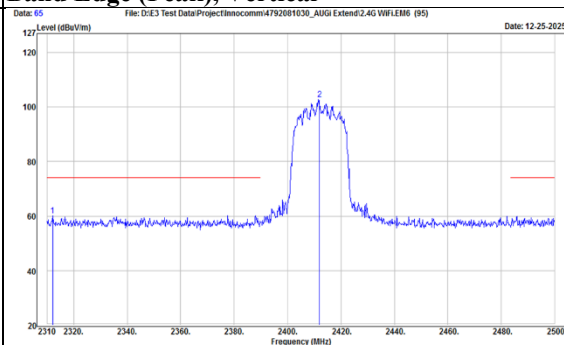
TX, 802.11ax(HE20) (Ch 1)
Band Edge (Average), Vertical



TX, 802.11ax(HE20) (Ch 1)
Band Edge (Peak), Horizontal



TX, 802.11ax(HE20) (Ch 1)
Band Edge (Peak), Vertical



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		2340.97	42.07	18.23	60.3	74	-13.7	PK
		2360.35	30.48	18.21	48.69	54	-5.31	AVG
	@	2437	87.58	17.98	105.56	N/A	N/A	PK
	@	2437	79.49	17.98	97.47	N/A	N/A	AVG
		2498.86	31.12	18.03	49.15	54	-4.85	AVG
		2499.43	41.76	18.03	59.79	74	-14.21	PK
Vertical		2366.24	30.42	18.21	48.63	54	-5.37	AVG
		2378.4	42.84	18.18	61.02	74	-12.98	PK
	@	2437	84.14	17.98	102.12	N/A	N/A	PK
	@	2437	76.17	17.98	94.15	N/A	N/A	AVG
		2488.98	30.49	18.01	48.5	54	-5.5	AVG
		2495.06	40.68	18.02	58.7	74	-15.3	PK

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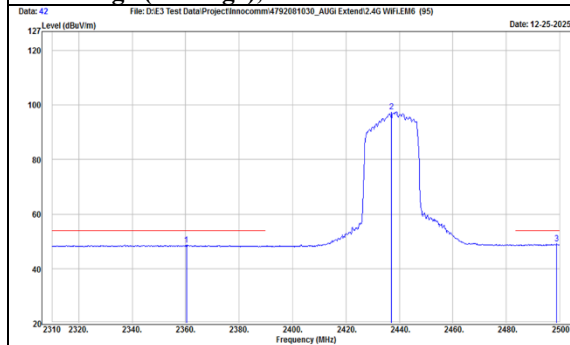
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

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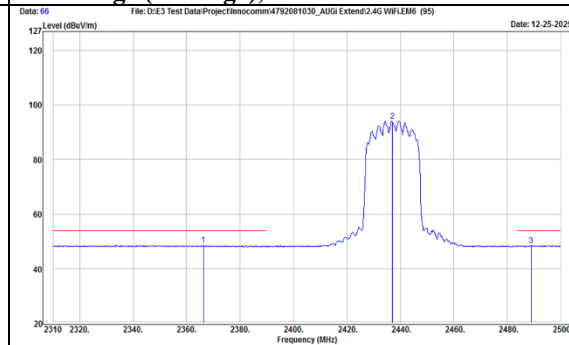
Facsimile (FAX) :+886-3-583-7948

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

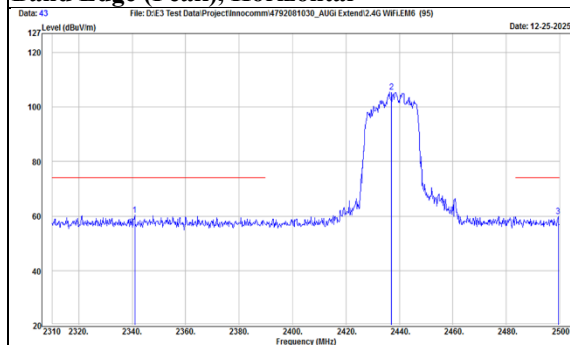
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Average), Horizontal



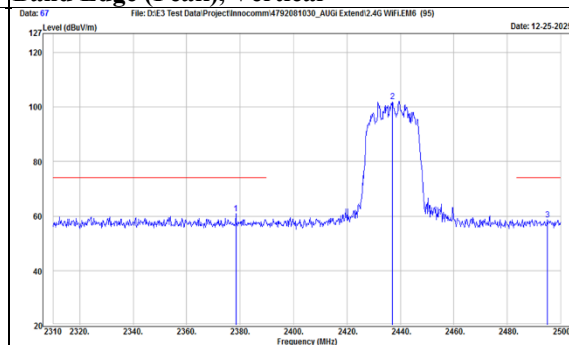
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Average), Vertical



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	89.15	17.96	107.11	N/A	N/A	PK
	@	2462	81.41	17.96	99.37	N/A	N/A	AVG
		2483.66	35.14	18	53.14	54	-0.86	AVG
		2485.18	48.05	18	66.05	74	-7.95	PK
Vertical	@	2462	84.64	17.96	102.6	N/A	N/A	PK
	@	2462	76.05	17.96	94.01	N/A	N/A	AVG
		2483.85	41.93	18	59.93	74	-14.07	PK
		2483.85	31.53	18	49.53	54	-4.47	AVG

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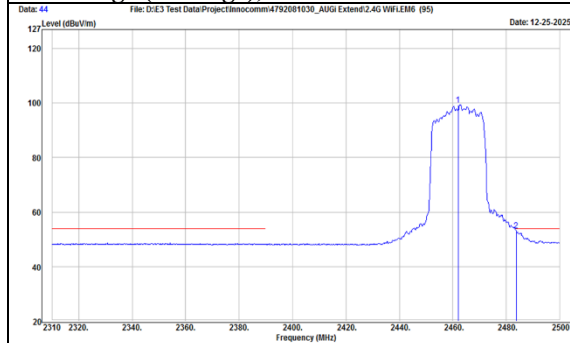
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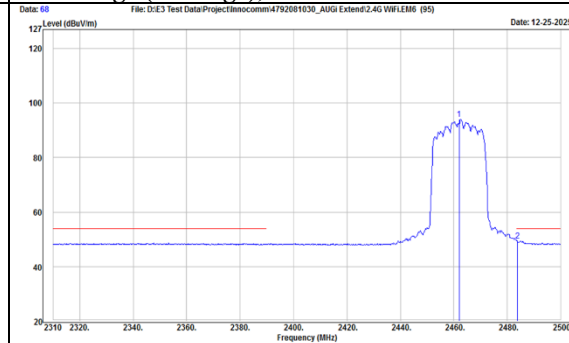
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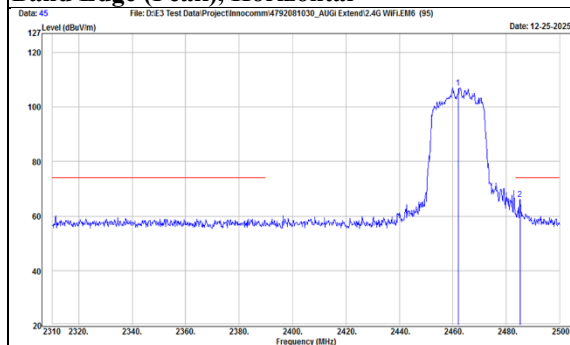
TX, 802.11ax(HE20) (Ch 11)
Band Edge (Average), Horizontal



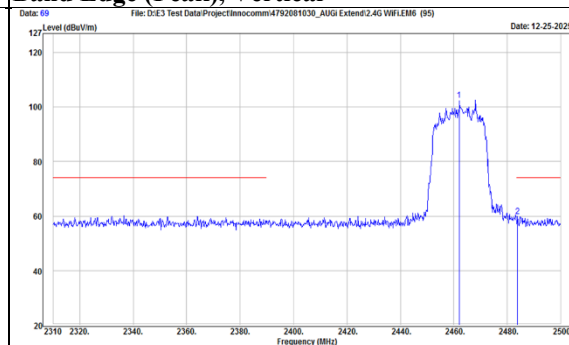
TX, 802.11ax(HE20) (Ch 11)
Band Edge (Average), Vertical



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



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



Below 1 GHz

Mode	802.11b	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		159.98	40.43	-11.38	29.05	43.5	-14.45	PK
		239.52	44.31	-12.48	31.83	46	-14.17	PK
		318.09	38.8	-9.54	29.26	46	-16.74	PK
		389.87	42.25	-7.55	34.7	46	-11.3	PK
		495.6	40.65	-4.89	35.76	46	-10.24	PK
		766.23	34.08	1.18	35.26	46	-10.74	PK
Vertical		55.22	38.35	-12.03	26.32	40	-13.68	PK
		95.96	41.95	-17	24.95	43.5	-18.55	PK
		159.98	39.88	-11.38	28.5	43.5	-15	PK
		238.55	39.46	-12.57	26.89	46	-19.11	PK
		584.84	37.18	-2.63	34.55	46	-11.45	PK
		765.26	33.4	1.19	34.59	46	-11.41	PK

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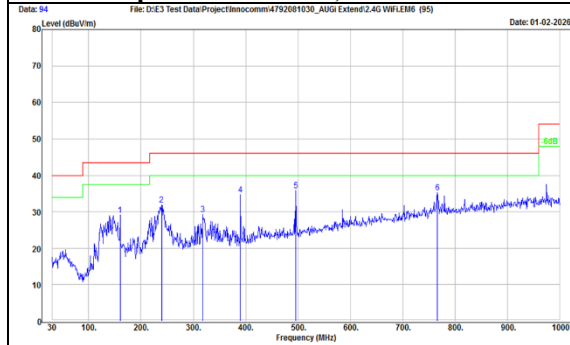
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

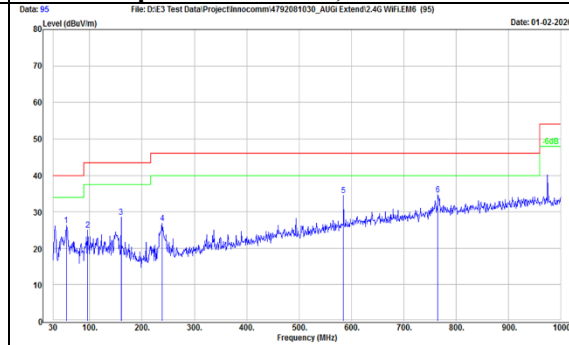
TX, 802.11b (Ch 1)

Radiated Spurious Emission, Horizontal



TX, 802.11b (Ch 1)

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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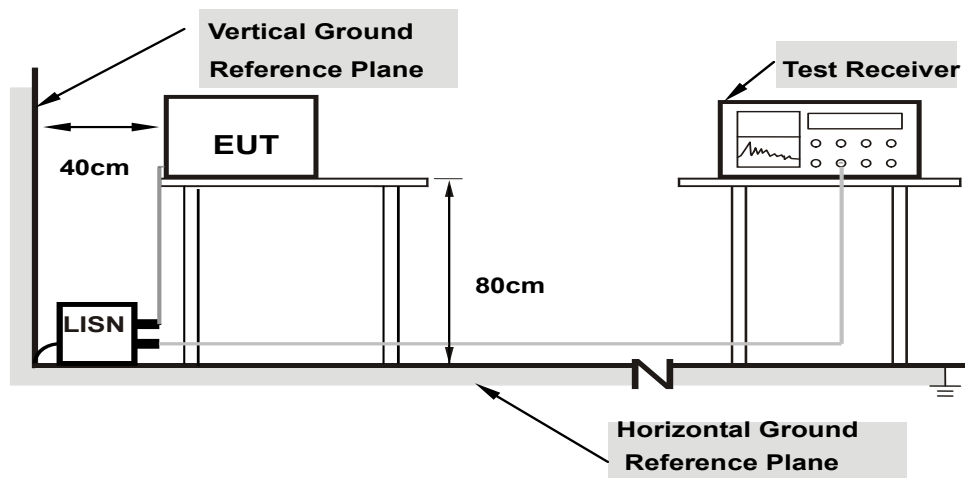
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Test Setup

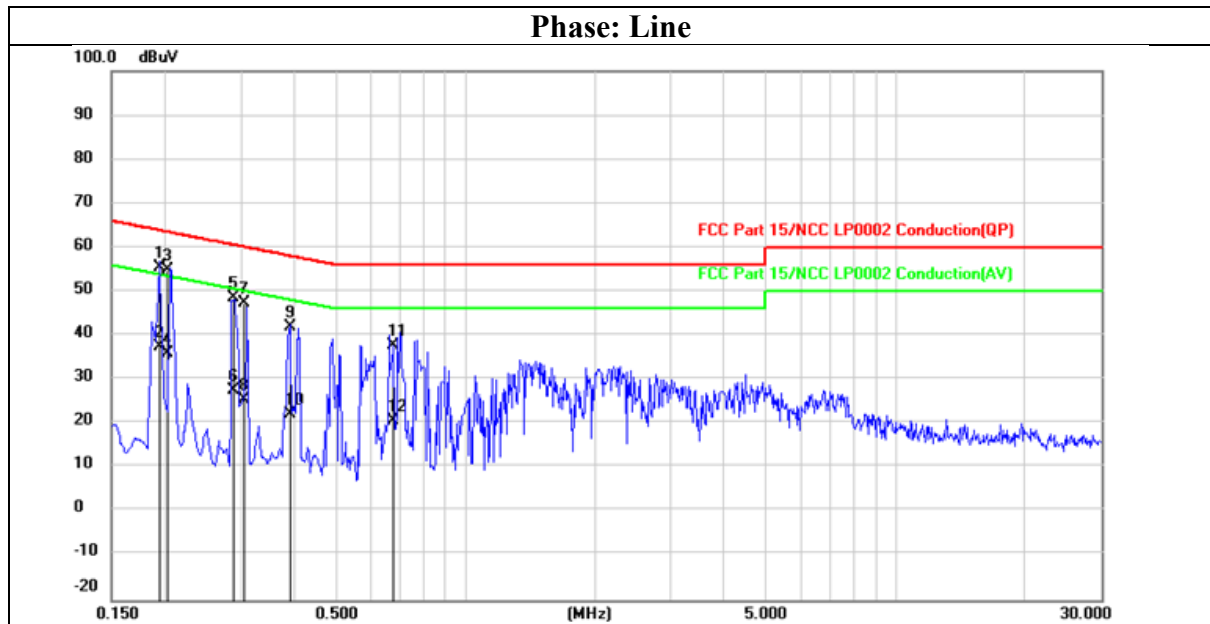


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1934	55.36	0.08	55.44	63.89	-8.45	QP
2	0.1934	37.34	0.08	37.42	53.89	-16.47	AVG
3	0.2024	54.82	0.08	54.90	63.51	-8.61	QP
4	0.2024	35.79	0.08	35.87	53.51	-17.64	AVG
5	0.2868	48.51	0.09	48.60	60.62	-12.02	QP
6	0.2868	27.44	0.09	27.53	50.62	-23.09	AVG
7	0.3059	47.15	0.10	47.25	60.08	-12.83	QP
8	0.3059	25.24	0.10	25.34	50.08	-24.74	AVG
9	0.3896	41.78	0.10	41.88	58.07	-16.19	QP
10	0.3896	22.19	0.10	22.29	48.07	-25.78	AVG
11	0.6837	37.49	0.13	37.62	56.00	-18.38	QP
12	0.6837	20.62	0.13	20.75	46.00	-25.25	AVG

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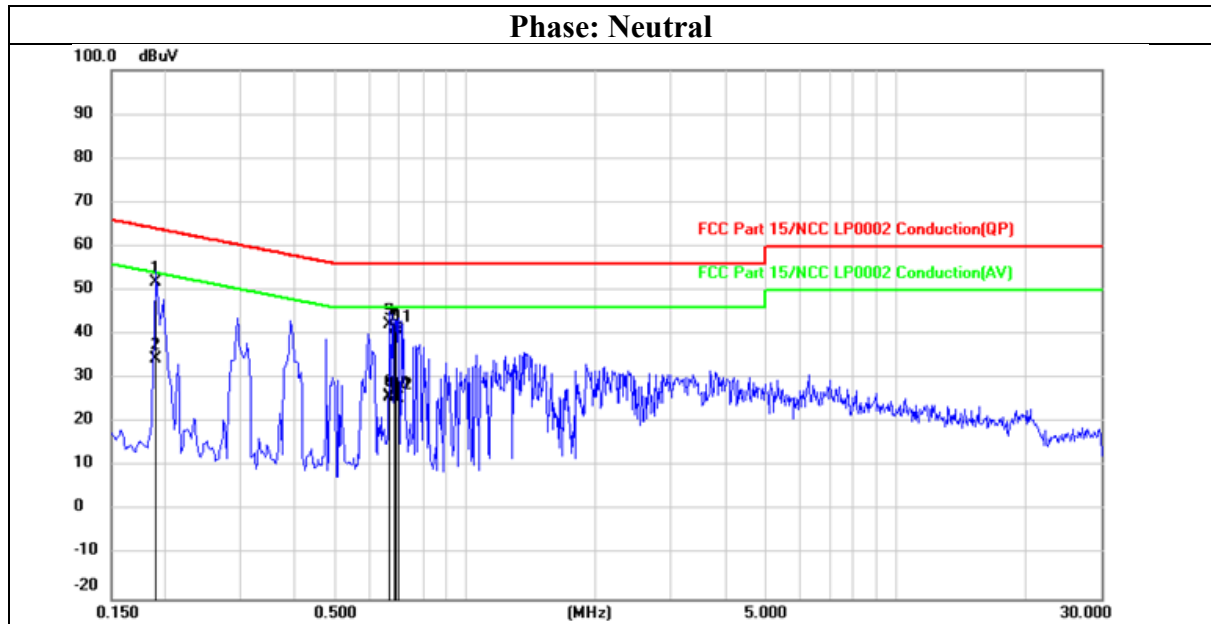
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Mode	11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1911	41.85	9.93	51.78	63.99	-12.21	QP
2	0.1911	24.39	9.93	34.32	53.99	-19.67	AVG
3	0.6663	32.30	9.95	42.25	56.00	-13.75	QP
4	0.6663	15.86	9.95	25.81	46.00	-20.19	AVG
5	0.6667	32.38	9.95	42.33	56.00	-13.67	QP
6	0.6667	16.18	9.95	26.13	46.00	-19.87	AVG
7	0.6850	31.28	9.95	41.23	56.00	-14.77	QP
8	0.6850	15.82	9.95	25.77	46.00	-20.23	AVG
9	0.6893	31.16	9.95	41.11	56.00	-14.89	QP
10	0.6893	15.79	9.95	25.74	46.00	-20.26	AVG
11	0.6955	30.82	9.95	40.77	56.00	-15.23	QP
12	0.6955	15.56	9.95	25.51	46.00	-20.49	AVG

END OF REPORT

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