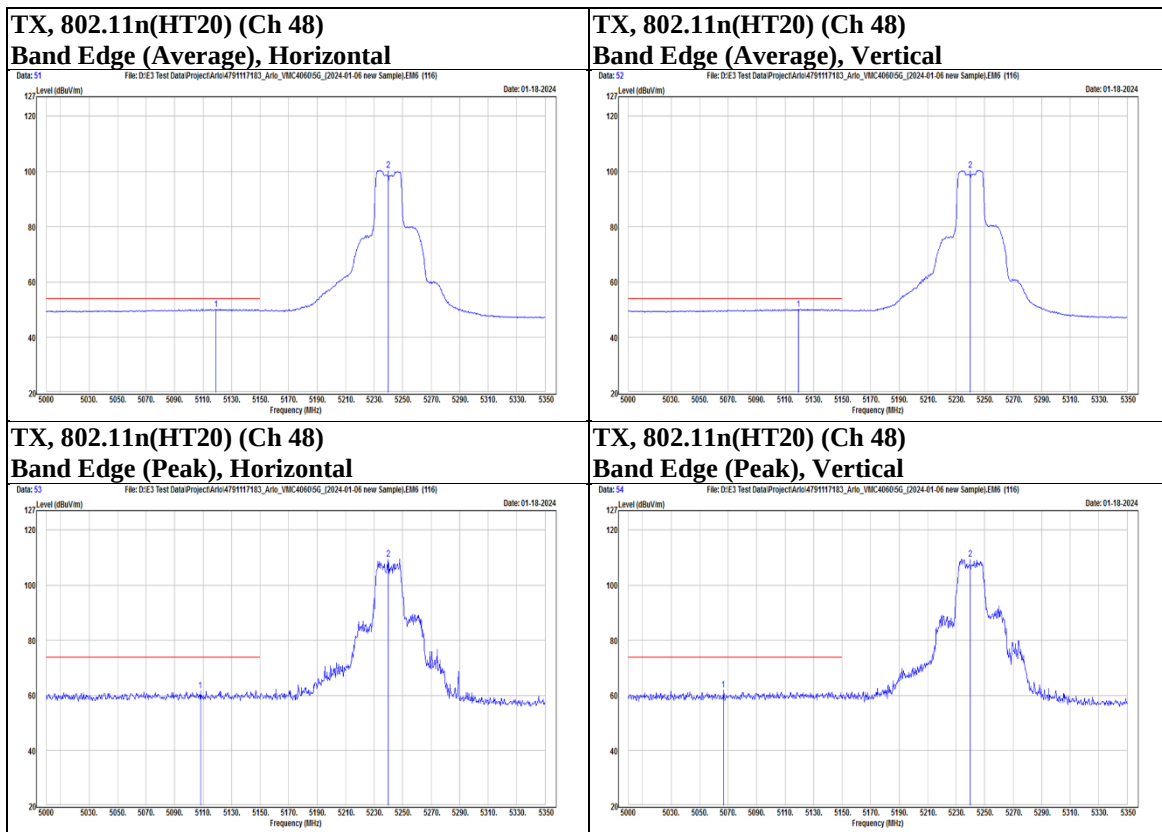


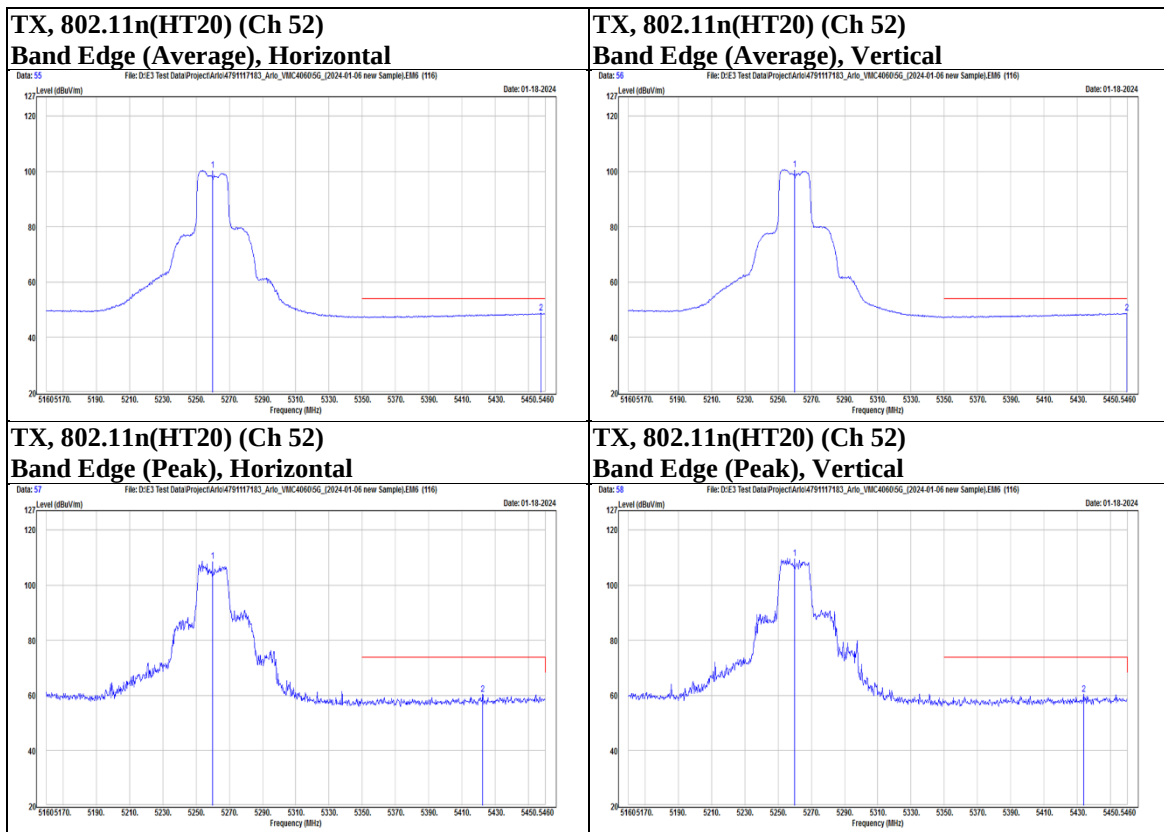
Mode	802.11n(HT20)	Channel	48
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5108.15	41.35	20.37	61.72	74	-12.28	PK
		5119	29.77	20.39	50.16	54	-3.84	AVG
	@	5240	88.98	20.45	109.43	N/A	N/A	PK
	@	5240	79.93	20.45	100.38	N/A	N/A	AVG
Vertical		5066.85	41.85	20.05	61.9	74	-12.1	PK
		5119.35	29.76	20.39	50.15	54	-3.85	AVG
	@	5240	89	20.45	109.45	N/A	N/A	PK
	@	5240	80.01	20.45	100.46	N/A	N/A	AVG



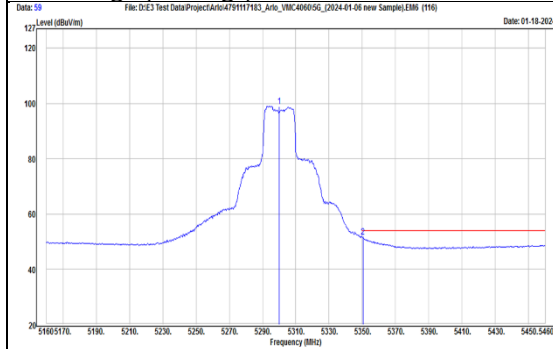
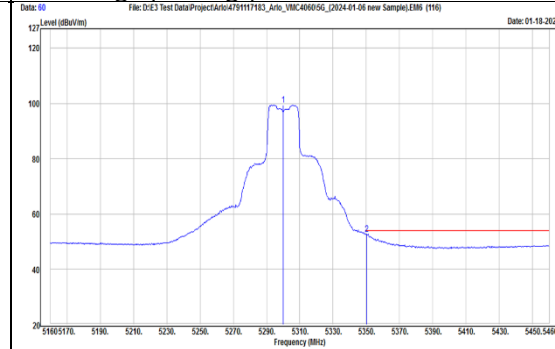
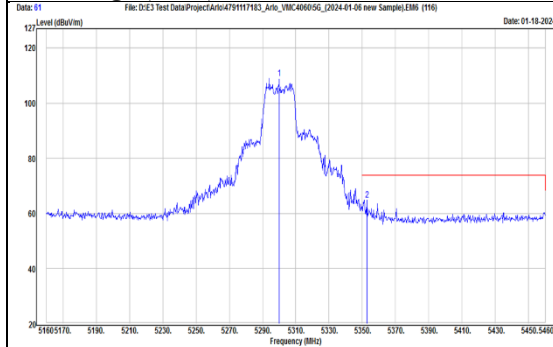
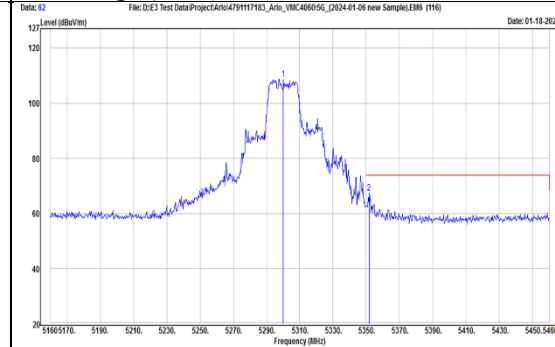
Mode	802.11n(HT20)	Channel	52
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5260	88.27	20.4	108.67	N/A	N/A	PK
	@	5260	79.98	20.4	100.38	N/A	N/A	AVG
		5422.5	39.51	20.92	60.43	74	-13.57	PK
		5457.6	27.6	21.16	48.76	54	-5.24	AVG
Vertical	@	5260	89.24	20.4	109.64	N/A	N/A	PK
	@	5260	80.32	20.4	100.72	N/A	N/A	AVG
		5433.9	39.5	21.01	60.51	74	-13.49	PK
		5459.9	27.59	21.17	48.76	54	-5.24	AVG



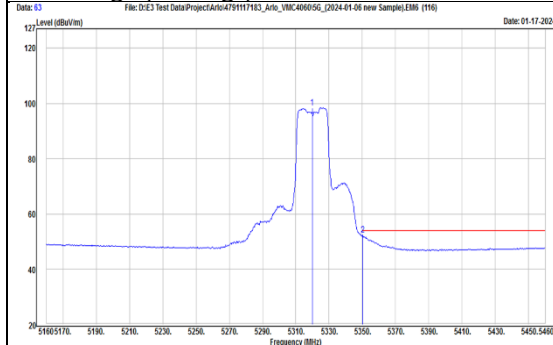
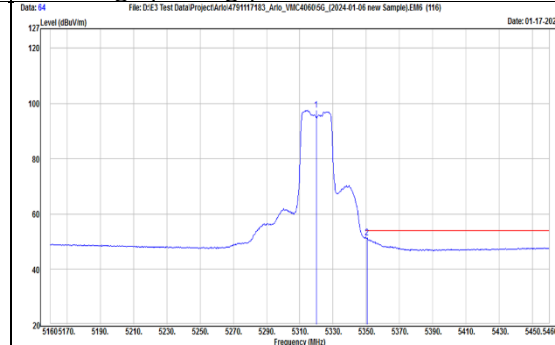
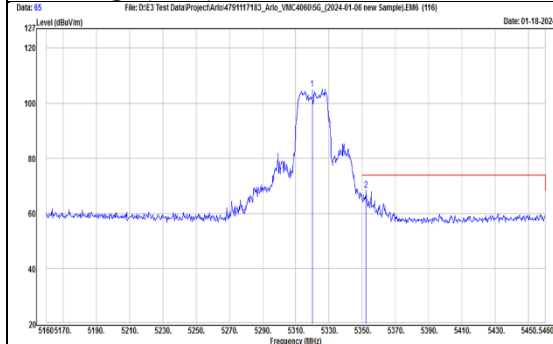
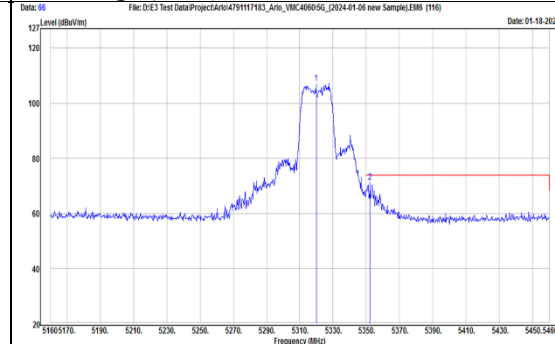
Mode	802.11n(HT20)	Channel	60
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5300	88.87	20.19	109.06	N/A	N/A	PK
	@	5300	78.78	20.19	98.97	N/A	N/A	AVG
		5350.5	31.29	20.34	51.63	54	-2.37	AVG
		5352.9	44.54	20.36	64.9	74	-9.1	PK
Vertical	@	5300	88.56	20.19	108.75	N/A	N/A	PK
	@	5300	79.16	20.19	99.35	N/A	N/A	AVG
		5350.2	32.47	20.34	52.81	54	-1.19	AVG
		5351.7	47	20.35	67.35	74	-6.65	PK

TX, 802.11n(HT20) (Ch 60)
Band Edge (Average), Horizontal

TX, 802.11n(HT20) (Ch 60)
Band Edge (Average), Vertical

TX, 802.11n(HT20) (Ch 60)
Band Edge (Peak), Horizontal

TX, 802.11n(HT20) (Ch 60)
Band Edge (Peak), Vertical


Mode	802.11n(HT20)	Channel	64
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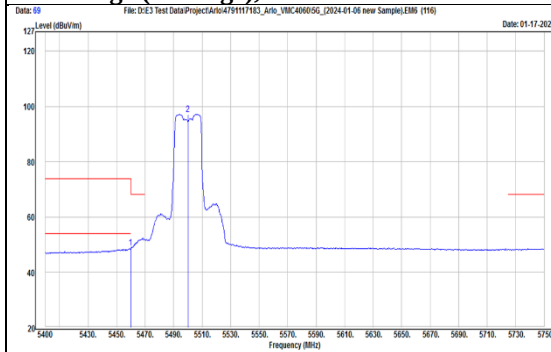
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5320	84.91	20.25	105.16	N/A	N/A	PK
	@	5320	79.38	19.08	98.46	N/A	N/A	AVG
		5350.2	33.38	19.12	52.5	54	-1.5	AVG
		5352.3	48.02	20.35	68.37	74	-5.63	PK
Vertical	@	5320	86.79	20.25	107.04	N/A	N/A	PK
	@	5320	78.44	19.08	97.52	N/A	N/A	AVG
		5350.5	32.32	19.12	51.44	54	-2.56	AVG
		5352.3	50.96	20.35	71.31	74	-2.69	PK

TX, 802.11n(HT20) (Ch 64)
Band Edge (Average), Horizontal

TX, 802.11n(HT20) (Ch 64)
Band Edge (Average), Vertical

TX, 802.11n(HT20) (Ch 64)
Band Edge (Peak), Horizontal

TX, 802.11n(HT20) (Ch 64)
Band Edge (Peak), Vertical


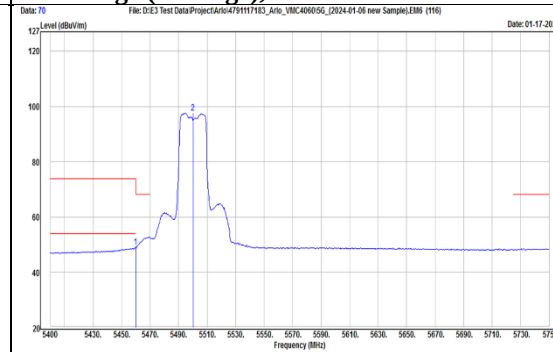
Mode	802.11n(HT20)	Channel	100
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5451.45	39.61	19.74	59.35	74	-14.65	PK
		5459.85	29.02	19.78	48.8	54	-5.2	AVG
		5468.6	44.99	19.83	64.82	68.2	-3.38	PK
	@	5500	85.92	19.99	105.91	N/A	N/A	PK
	@	5500	77.17	19.99	97.16	N/A	N/A	AVG
Vertical		5458.1	42.37	19.77	62.14	74	-11.86	PK
		5459.85	29.35	19.78	49.13	54	-4.87	AVG
		5468.6	48.19	19.83	68.02	68.2	-0.18	PK
	@	5500	87.13	19.99	107.12	N/A	N/A	PK
	@	5500	77.65	19.99	97.64	N/A	N/A	AVG

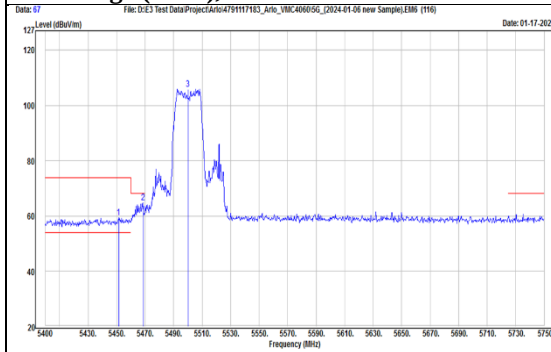
TX, 802.11n(HT20) (Ch 100)
Band Edge (Average), Horizontal



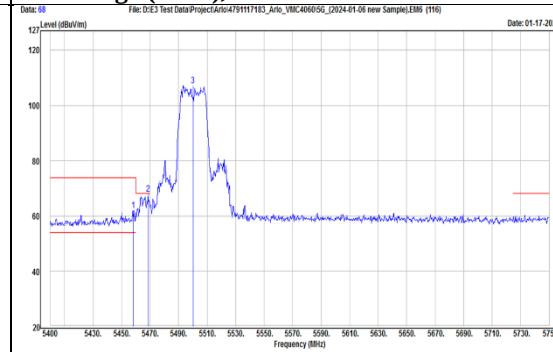
TX, 802.11n(HT20) (Ch 100)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 100)
Band Edge (Peak), Horizontal

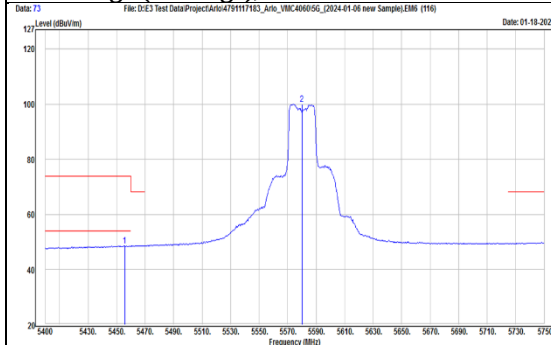
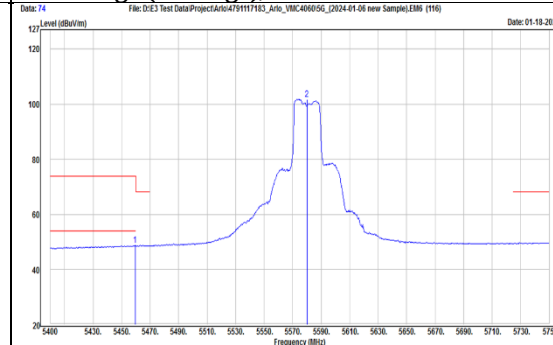
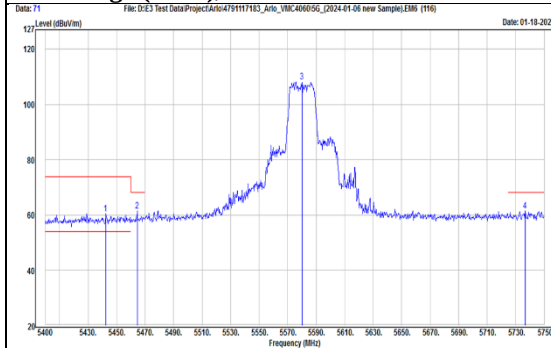
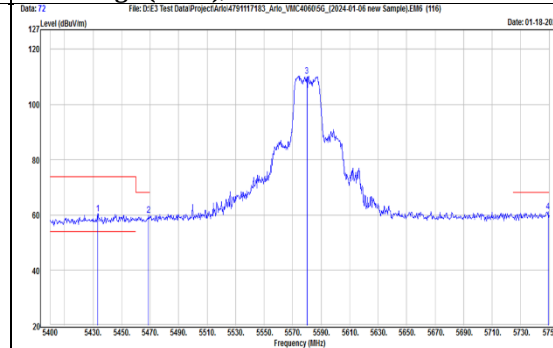


TX, 802.11n(HT20) (Ch 100)
Band Edge (Peak), Vertical



Mode	802.11n(HT20)	Channel	116
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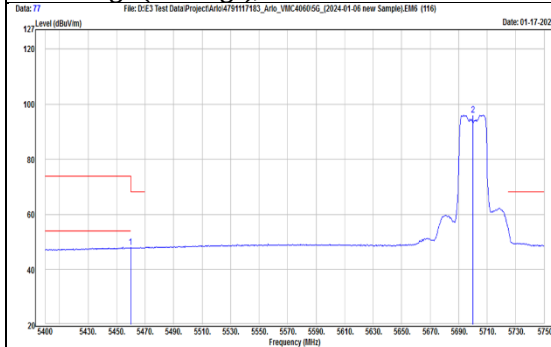
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5442.35	39.54	21.06	60.6	74	-13.4	PK
		5455.65	27.59	21.14	48.73	54	-5.27	AVG
		5464.4	40.25	21.2	61.45	68.2	-6.75	PK
	@	5580	86.37	21.7	108.07	N/A	N/A	PK
	@	5580	78.25	21.7	99.95	N/A	N/A	AVG
		5736.7	39.56	21.88	61.44	68.2	-6.76	PK
Vertical		5433.25	39.52	20.99	60.51	74	-13.49	PK
		5459.5	27.63	21.17	48.8	54	-5.2	AVG
		5468.95	38.68	21.24	59.92	68.2	-8.28	PK
	@	5580	88.61	21.7	110.31	N/A	N/A	PK
	@	5580	80.07	21.7	101.77	N/A	N/A	AVG
		5749.3	39.25	22	61.25	68.2	-6.95	PK

TX, 802.11n(HT20) (Ch 116)
Band Edge (Average), Horizontal

TX, 802.11n(HT20) (Ch 116)
Band Edge (Average), Vertical

TX, 802.11n(HT20) (Ch 116)
Band Edge (Peak), Horizontal

TX, 802.11n(HT20) (Ch 116)
Band Edge (Peak), Vertical


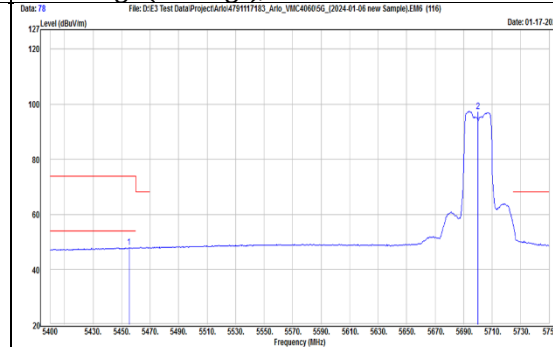
Mode	802.11n(HT20)	Channel	140
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5450.75	39.78	19.73	59.51	74	-14.49	PK
		5459.85	28.28	19.78	48.06	54	-5.94	AVG
		5468.25	39.72	19.83	59.55	68.2	-8.65	PK
	@	5700	85.86	19.85	105.71	N/A	N/A	PK
	@	5700	76.14	19.85	95.99	N/A	N/A	AVG
		5725	46.85	20.04	66.89	68.2	-1.31	PK
Vertical		5441.3	40.24	19.7	59.94	74	-14.06	PK
		5455.3	28.29	19.76	48.05	54	-5.95	AVG
		5467.55	38.61	19.82	58.43	68.2	-9.77	PK
	@	5700	87.45	19.85	107.3	N/A	N/A	PK
	@	5700	77.5	19.85	97.35	N/A	N/A	AVG
		5725.15	47.9	20.04	67.94	68.2	-0.26	PK

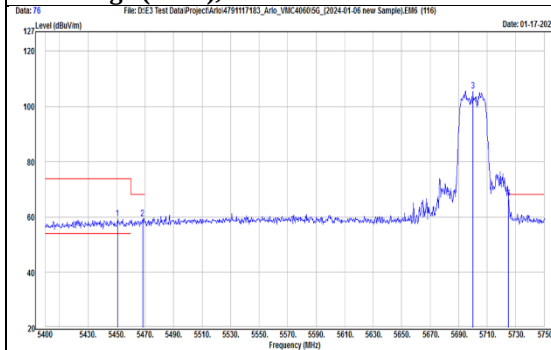
TX, 802.11n(HT20) (Ch 140)
Band Edge (Average), Horizontal



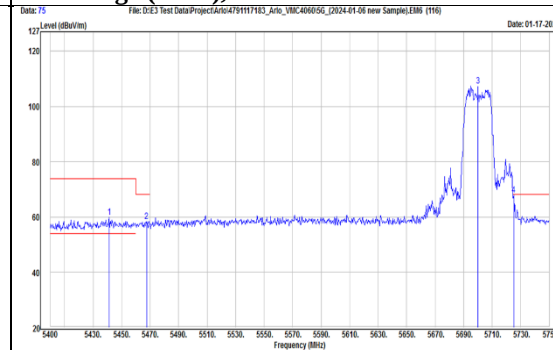
TX, 802.11n(HT20) (Ch 140)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 140)
Band Edge (Peak), Horizontal



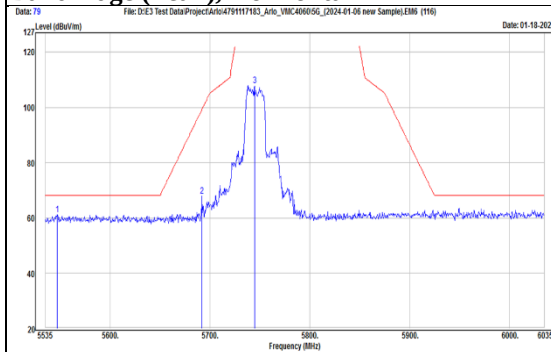
TX, 802.11n(HT20) (Ch 140)
Band Edge (Peak), Vertical



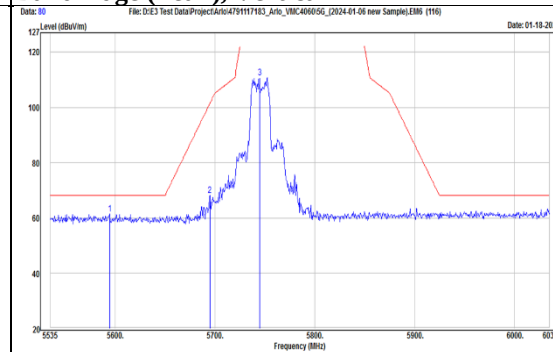
Mode	802.11n(HT20)	Channel	149
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5547	39.57	21.66	61.23	68.2	-6.97	PK
		5692	46.31	21.58	67.89	99.3	-31.41	PK
	@	5745	85.86	21.96	107.82	N/A	N/A	PK
Vertical		5594.5	39.75	21.7	61.45	68.2	-6.75	PK
		5695	46.59	21.57	68.16	101.51	-33.35	PK
	@	5745	88.76	21.96	110.72	N/A	N/A	PK

TX, 802.11n(HT20) (Ch 149)
Band Edge (Peak), Horizontal



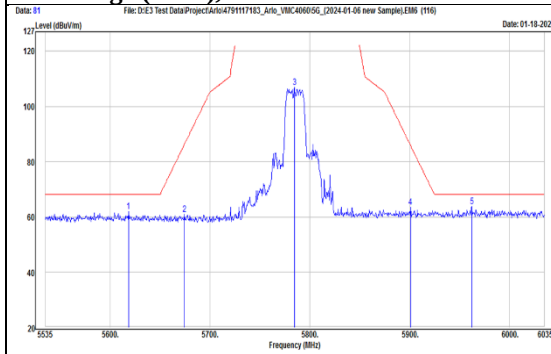
TX, 802.11n(HT20) (Ch 149)
Band Edge (Peak), Vertical



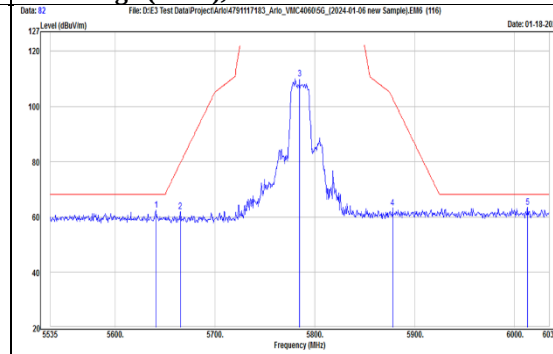
Mode	802.11n(HT20)	Channel	157
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5618.5	40.32	21.68	62	68.2	-6.2	PK
		5674.5	39.5	21.6	61.1	86.37	-25.27	PK
		5785	84.7	22.3	107	N/A	N/A	PK
		5901	40.44	23.09	63.53	85.92	-22.39	PK
		5962.5	40.5	23.28	63.78	68.2	-4.42	PK
Vertical	@	5641	40.76	21.66	62.42	68.2	-5.78	PK
		5665.5	40.28	21.62	61.9	79.7	-17.8	PK
		5785	87.79	22.3	110.09	N/A	N/A	PK
		5878	40.33	23.03	63.36	102.97	-39.61	PK
		6013.5	39.94	23.52	63.46	68.2	-4.74	PK

TX, 802.11n(HT20) (Ch 157)
Band Edge (Peak), Horizontal



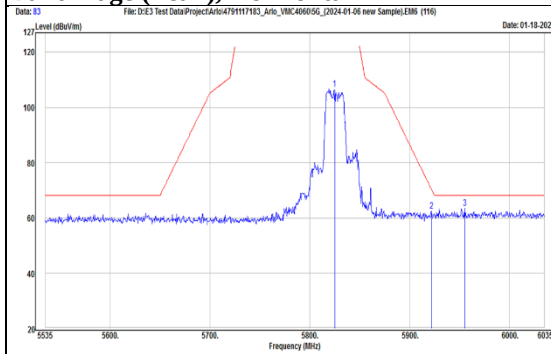
TX, 802.11n(HT20) (Ch 157)
Band Edge (Peak), Vertical



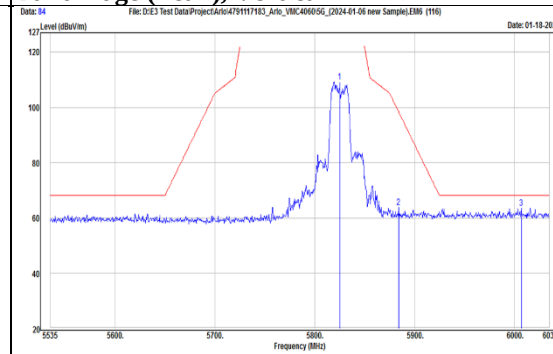
Mode	802.11n(HT20)	Channel	165
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5825	84.04	22.7	106.74	N/A	N/A	PK
		5922	39.34	23.15	62.49	70.41	-7.92	PK
		5955.5	40.28	23.25	63.53	68.2	-4.67	PK
Vertical	@	5825	86.41	22.7	109.11	N/A	N/A	PK
		5884	40.8	23.05	63.85	98.52	-34.67	PK
		6007	40.12	23.49	63.61	68.2	-4.59	PK

TX, 802.11n(HT20) (Ch 165)
Band Edge (Peak), Horizontal



TX, 802.11n(HT20) (Ch 165)
Band Edge (Peak), Vertical



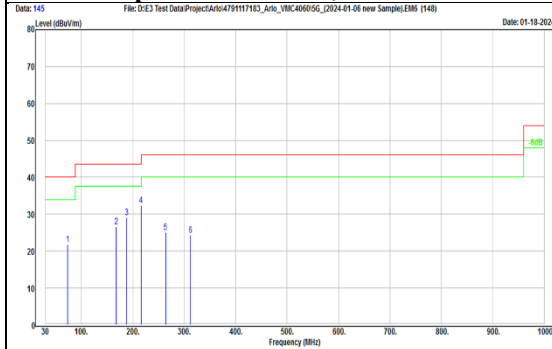
Below 1 GHz

Mode	802.11a	Channel	44
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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	36.33	-14.61	21.72	40	-18.28	PK
		167.74	38.34	-11.75	26.59	43.5	-16.91	PK
		188.11	43.06	-13.89	29.17	43.5	-14.33	PK
		216.24	46.62	-14.33	32.29	46	-13.71	PK
		263.77	36.78	-11.77	25.01	46	-20.99	PK
		312.27	34.49	-10.16	24.33	46	-21.67	PK
Vertical		31.94	39.23	-14.5	24.73	40	-15.27	PK
		72.68	36.27	-14.3	21.97	40	-18.03	PK
		104.69	38.28	-15.41	22.87	43.5	-20.63	PK
		184.23	36.74	-13.43	23.31	43.5	-20.19	PK
		216.24	35.39	-14.33	21.06	46	-24.94	PK
		318.09	32.06	-9.9	22.16	46	-23.84	PK

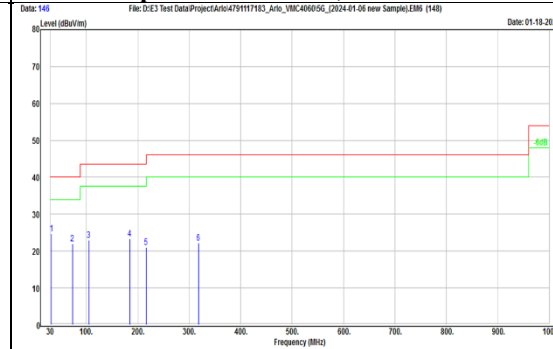
TX, 802.11a (Ch 44)

Radiated Spurious Emission, Horizontal



TX, 802.11a (Ch 44)

Radiated Spurious Emission, Vertical



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.

9.8. 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).

Underwriters Laboratories Taiwan Co., Ltd.

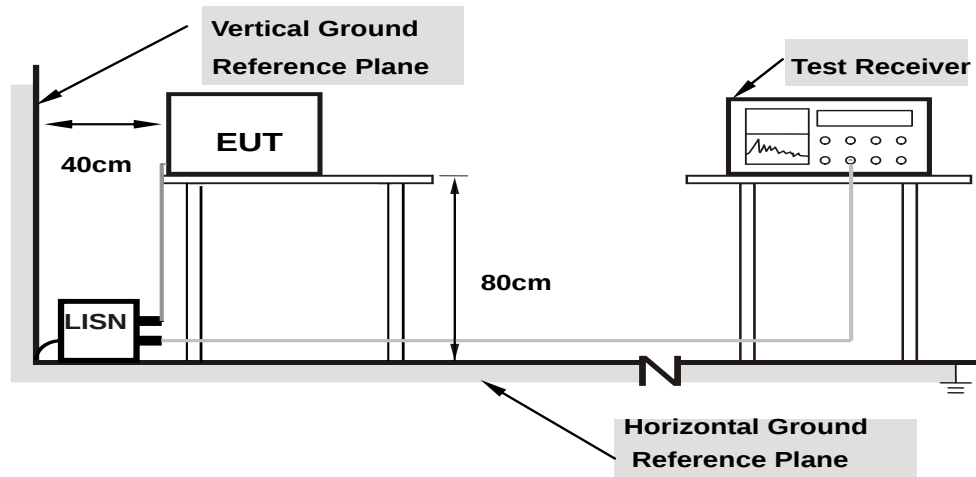
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

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

Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

Test Setup

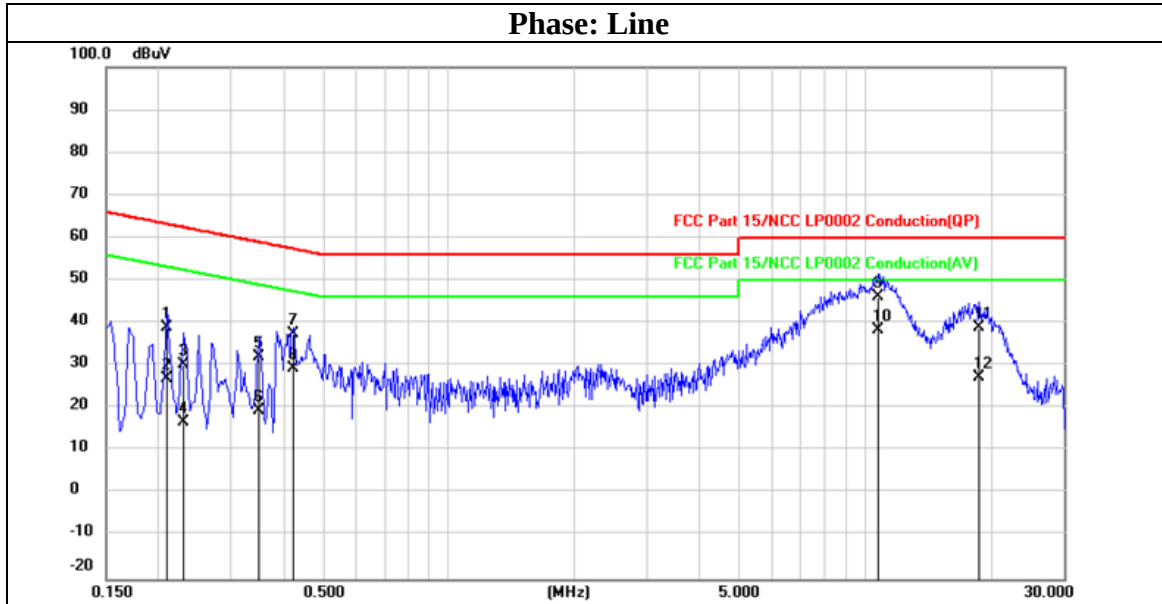


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	802.11a_TX5745	Channel	149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2100	29.14	9.95	39.09	63.21	-24.12	QP
2	0.2100	16.96	9.95	26.91	53.21	-26.30	AVG
3	0.2300	20.17	9.95	30.12	62.45	-32.33	QP
4	0.2300	6.78	9.95	16.73	52.45	-35.72	AVG
5	0.3500	22.18	9.95	32.13	58.96	-26.83	QP
6	0.3500	9.41	9.95	19.36	48.96	-29.60	AVG
7	0.4220	27.51	9.95	37.46	57.41	-19.95	QP
8	0.4220	19.50	9.95	29.45	47.41	-17.96	AVG
9	10.7540	36.00	10.28	46.28	60.00	-13.72	QP
10	10.7540	27.95	10.28	38.23	50.00	-11.77	AVG
11	18.7420	28.48	10.49	38.97	60.00	-21.03	QP
12	18.7420	16.82	10.49	27.31	50.00	-22.69	AVG

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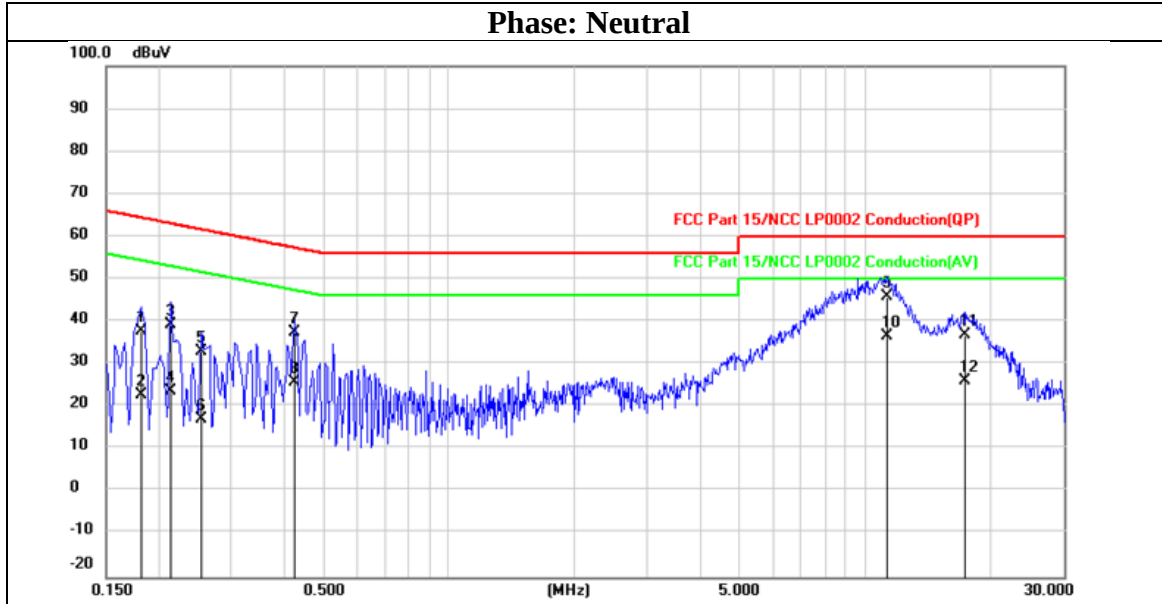
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Mode	802.11a_TX5745	Channel	149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1819	27.93	9.94	37.87	64.40	-26.53	QP
2	0.1819	12.93	9.94	22.87	54.40	-31.53	AVG
3	0.2140	29.45	9.94	39.39	63.05	-23.66	QP
4	0.2140	13.59	9.94	23.53	53.05	-29.52	AVG
5	0.2540	23.15	9.94	33.09	61.63	-28.54	QP
6	0.2540	7.25	9.94	17.19	51.63	-34.44	AVG
7	0.4260	27.47	9.95	37.42	57.33	-19.91	QP
8	0.4260	15.93	9.95	25.88	47.33	-21.45	AVG
9	11.2620	35.61	10.30	45.91	60.00	-14.09	QP
10	11.2620	26.16	10.30	36.46	50.00	-13.54	AVG
11	17.3700	26.46	10.47	36.93	60.00	-23.07	QP
12	17.3700	15.69	10.47	26.16	50.00	-23.84	AVG

END OF REPORT

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