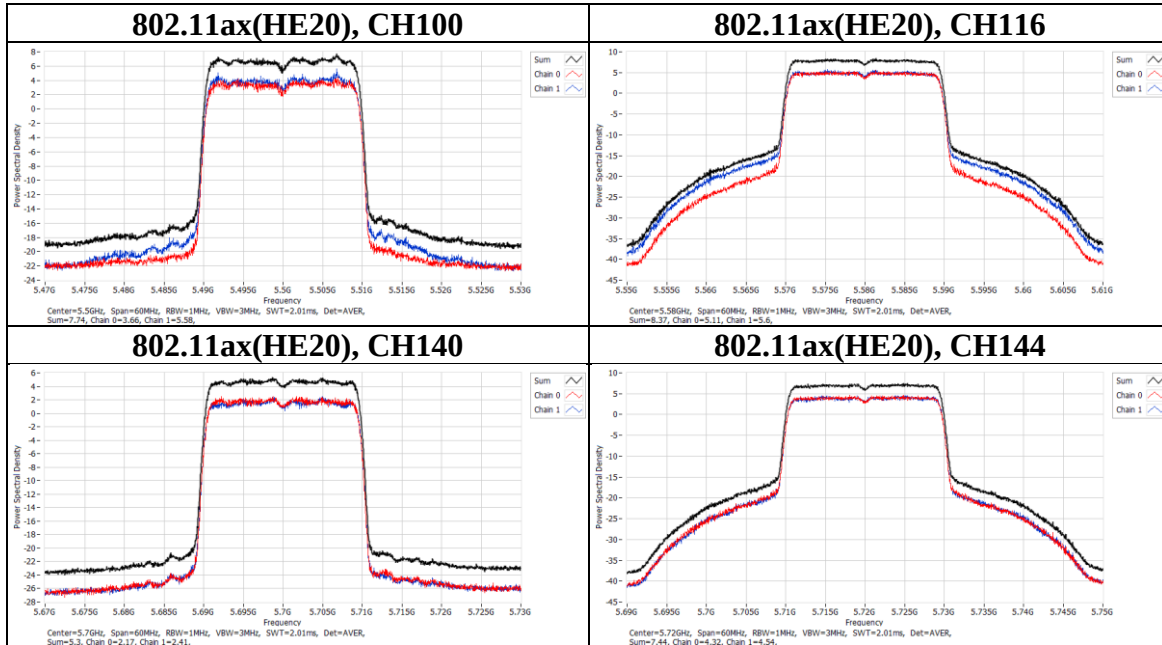


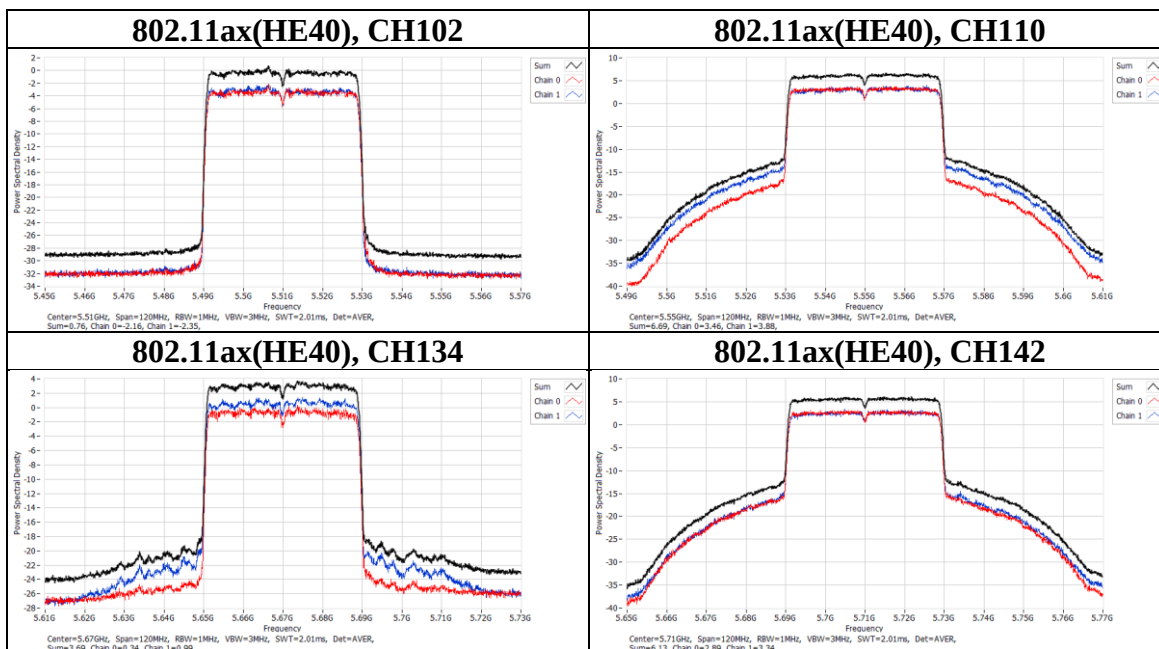
Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ax(HE20)	100	5500	8.24	7.74	8.76	PASS
	116	5580	8.24	8.37	8.76	PASS
	140	5700	8.24	5.3	8.76	PASS
	144	5720	8.24	7.44	8.76	PASS

Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ax(HE20)	100	5500	4.389	5.584
	116	5580	5.531	5.714
	140	5700	2.463	2.467
	144	5720	4.58	4.558



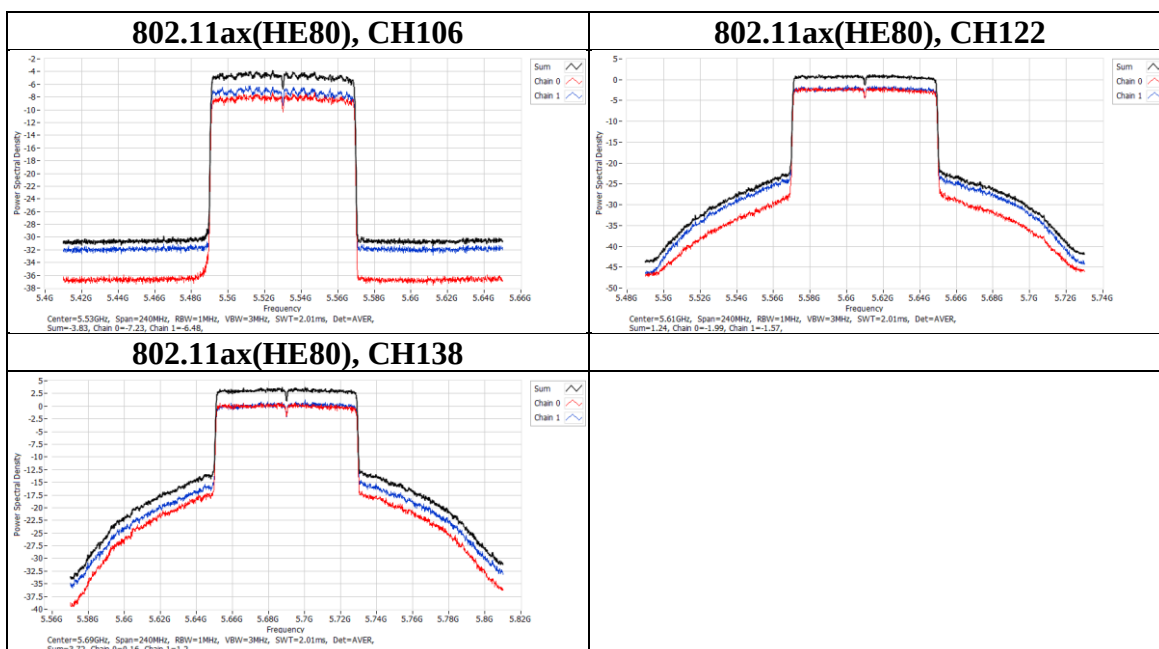
Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ax(HE40)	102	5510	8.24	0.76	8.76	PASS
	110	5550	8.24	6.69	8.76	PASS
	134	5670	8.24	3.69	8.76	PASS
	142	5710	8.24	6.13	8.76	PASS

Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ax(HE40)	102	5510	-2.156	-2.281
	110	5550	3.897	3.913
	134	5670	0.342	1.421
	142	5710	3.175	3.385



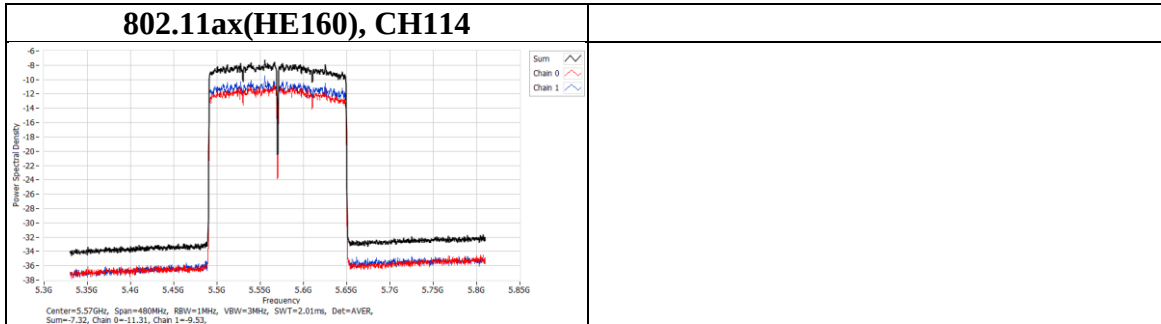
Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ax(HE80)	106	5530	8.24	-3.83	8.76	PASS
	122	5610	8.24	1.24	8.76	PASS
	138	5690	8.24	3.72	8.76	PASS

Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ax(HE80)	106	5530	-7.232	-6.267
	122	5610	-1.715	-1.321
	138	5690	0.686	1.198



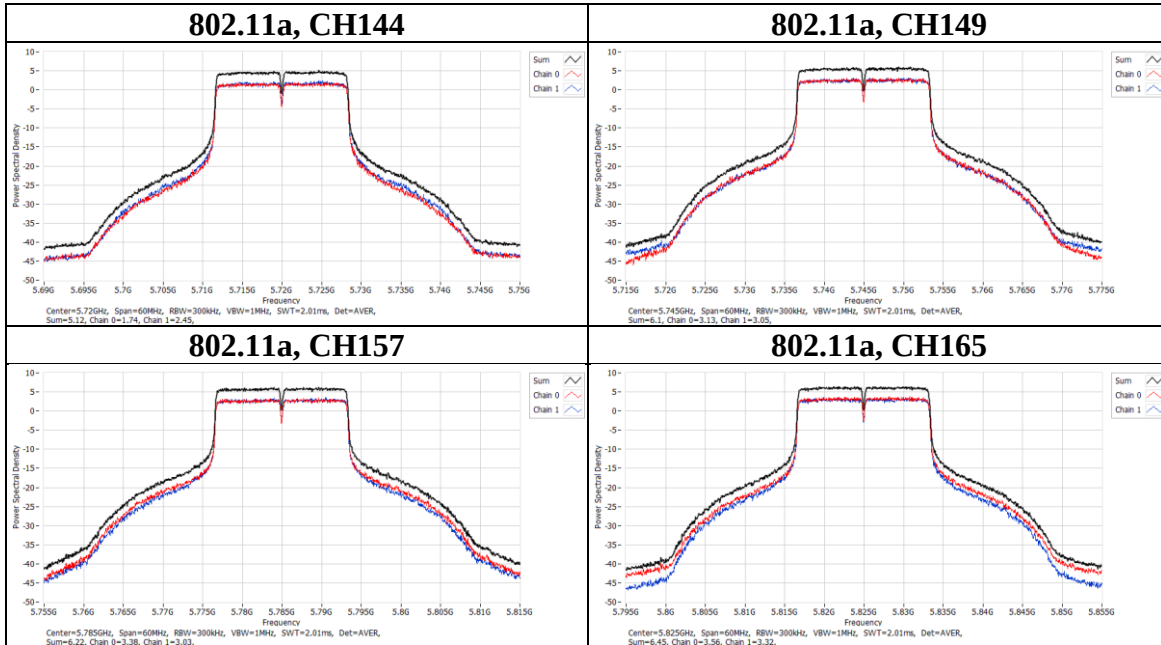
Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ax(HE160)	114	5570	8.24	-7.32	8.76	PASS

Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ax(HE160)	114	5570	-10.699	-9.527



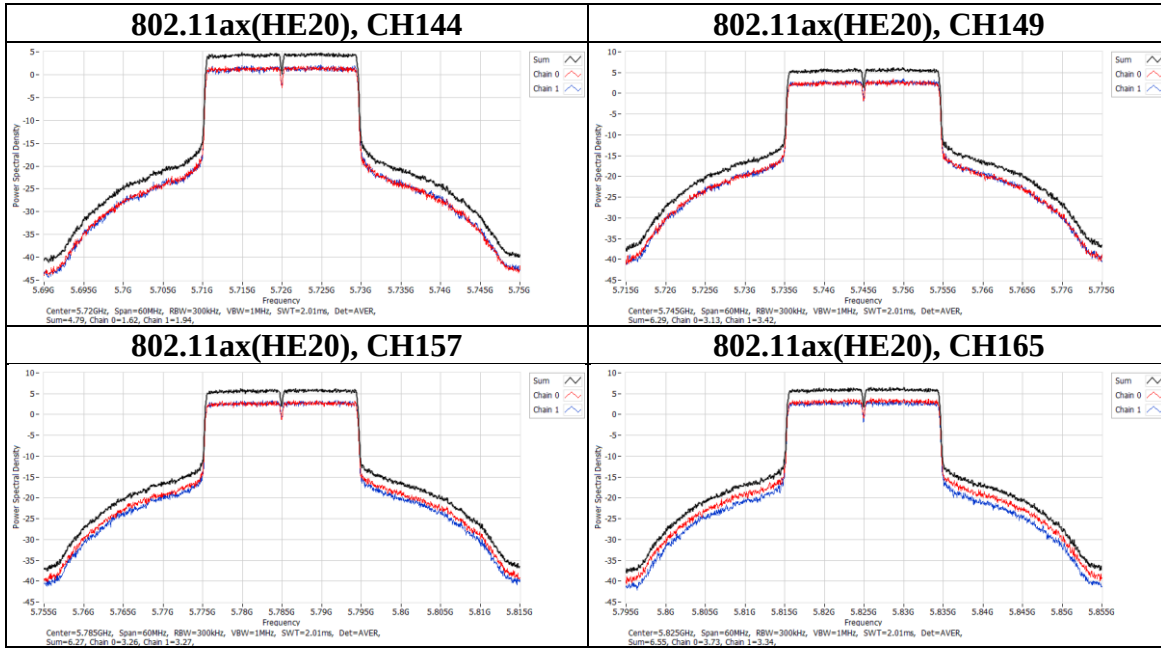
Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11a	144	5720	2.22	8.24	7.34	27.76	PASS
	149	5745	2.22	8.24	8.32	27.76	PASS
	157	5785	2.22	8.24	8.44	27.76	PASS
	165	5825	2.22	8.24	8.67	27.76	PASS

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11a	144	5720	2.01	2.446
	149	5745	3.194	3.175
	157	5785	3.382	3.557
	165	5825	3.811	3.595



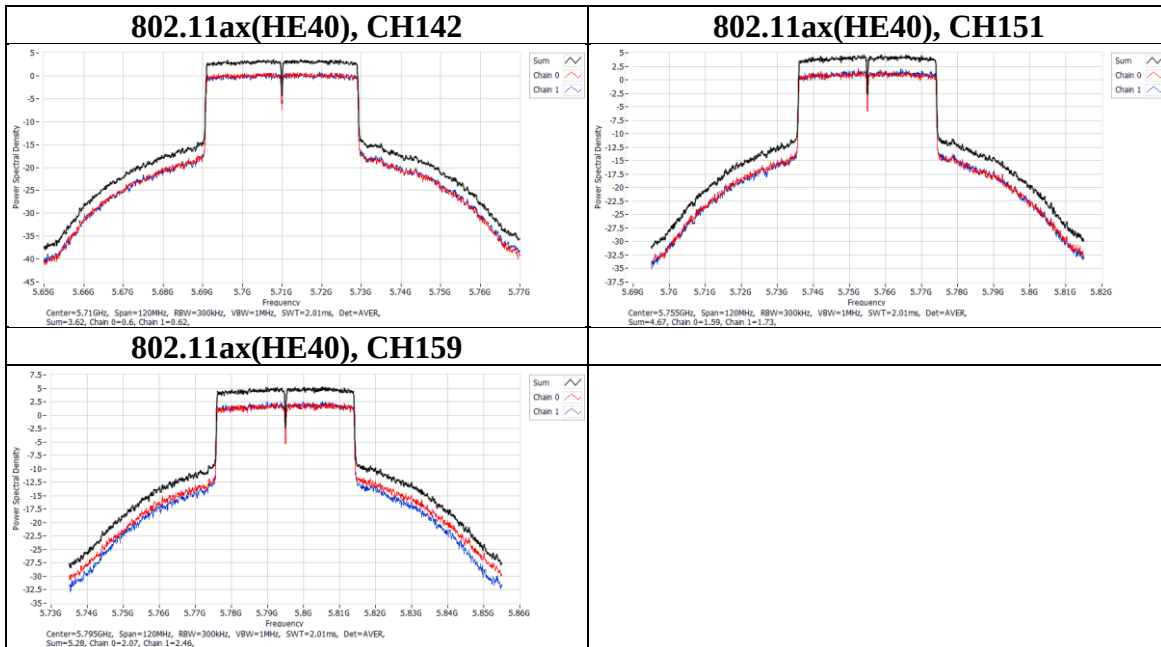
Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11ax(HE20)	144	5720	2.22	8.24	7.01	27.76	PASS
	149	5745	2.22	8.24	8.51	27.76	PASS
	157	5785	2.22	8.24	8.49	27.76	PASS
	165	5825	2.22	8.24	8.77	27.76	PASS

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11ax(HE20)	144	5720	1.894	2.152
	149	5745	3.478	3.58
	157	5785	3.31	3.339
	165	5825	4.044	3.476



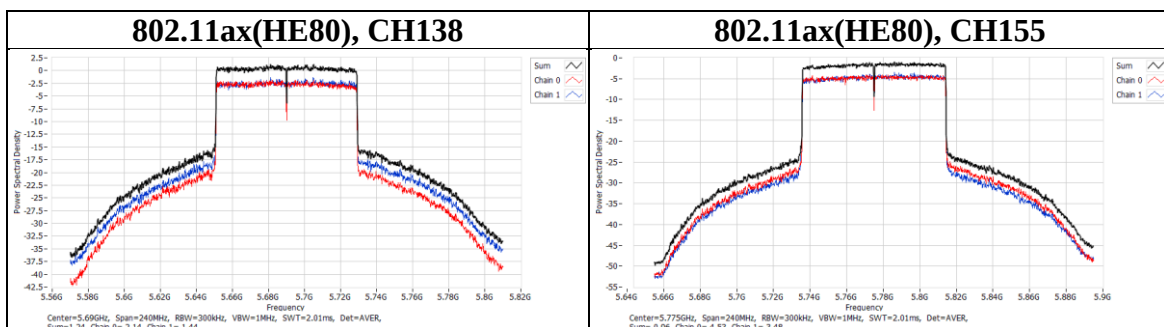
Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11ax(HE40)	142	5710	2.22	8.24	5.84	27.76	PASS
	151	5755	2.22	8.24	6.89	27.76	PASS
	159	5795	2.22	8.24	7.5	27.76	PASS

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11ax(HE40)	142	5710	0.709	0.829
	151	5755	1.811	2.088
	159	5795	2.408	2.536



Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11ax(HE80)	138	5690	2.22	8.24	3.45	27.76	PASS
	155	5775	2.22	8.24	1.26	27.76	PASS

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11ax(HE80)	138	5690	-1.889	-1.417
	155	5775	-4.076	-3.476



Test Data

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
70	3.3	5180.0039	0.75	5180.0065	1.25	5180.0044	0.85	5180.0056	1.08
60	3.3	5180.0127	2.45	5180.0103	1.99	5180.0131	2.53	5180.0113	2.18
50	3.3	5180.0203	3.92	5180.0186	3.59	5180.0196	3.78	5180.0182	3.51
40	3.3	5179.9885	-2.22	5179.9847	-2.95	5179.9864	-2.63	5179.9858	-2.74
30	3.3	5180.0004	0.08	5179.9999	-0.02	5180.0029	0.56	5180.0023	0.44
20	3.3	5180.0129	2.49	5180.0169	3.26	5180.0154	2.97	5180.0129	2.49
10	3.3	5180.0095	1.83	5180.0094	1.81	5180.0078	1.51	5180.0073	1.41
0	3.3	5180.014	2.70	5180.0153	2.95	5180.0132	2.55	5180.0152	2.93
-10	3.3	5179.9809	-3.69	5179.9825	-3.38	5179.9855	-2.80	5179.9815	-3.57
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
20	3.795	5180.0125	2.41	5180.0168	3.24	5180.0159	3.07	5180.0135	2.61
20	3.3	5180.0129	2.49	5180.0169	3.26	5180.0154	2.97	5180.0129	2.49
20	2.805	5180.0124	2.39	5180.0162	3.13	5180.0155	2.99	5180.0135	2.61

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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

9.7. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8(dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.			

Note:

The following formula is used to convert the effective isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
802.11a	1MHz	Refer to section 6.6 for duty cycle.
802.11ax (HE20)		
802.11ax (HE40)		
802.11ax (HE80)		
802.11ax (HE160)		

- 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.
- Test data of Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
- Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
- Test data of Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
- Test data of Notation "@" = Fundamental Frequency
- Test data of Notation "*" = Only required peak limit or the peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

Underwriters Laboratories Taiwan Co., Ltd.

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

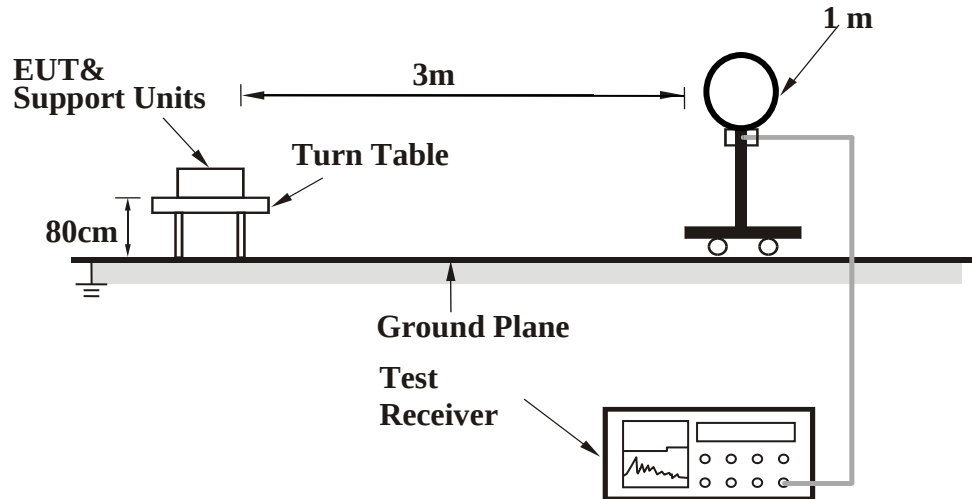
Telephone : +886-2-7737-3000

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

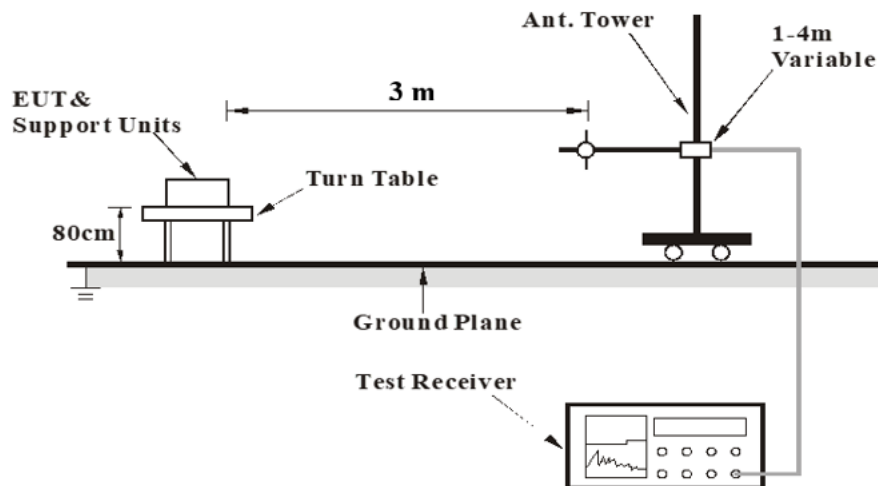
Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



Underwriters Laboratories Taiwan Co., Ltd.

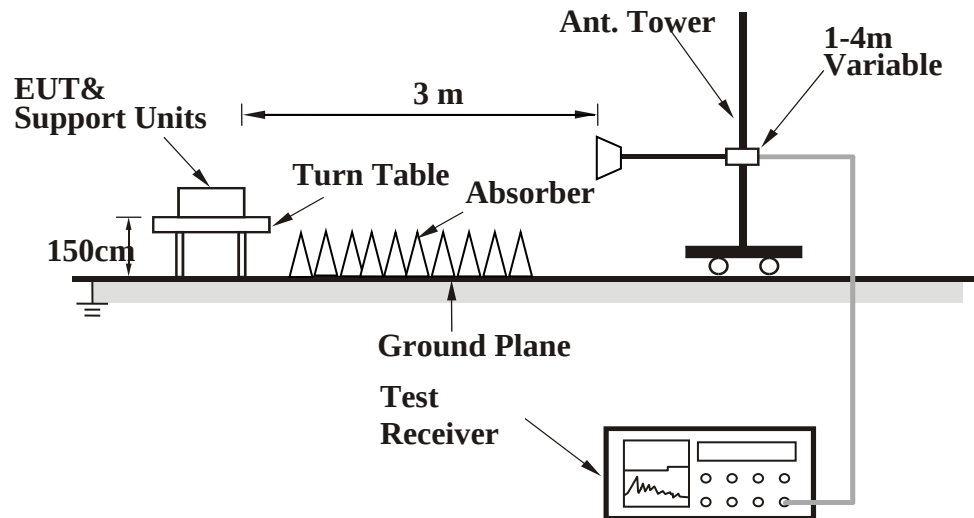
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

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

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

<Frequency Range above 1 GHz>



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

Test Data

Dipole Antenna

Above 1 GHz

Mode	802.11a	Channel	36
------	---------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	44.26	0.05	44.31	74	-29.69	PK
		5075.25	29.52	19.12	48.64	54	-5.36	AVG
		5113.4	41.11	19.24	60.35	74	-13.65	PK
	@	5180	79.93	19.14	99.07	N/A	N/A	PK
	@	5180	71.3	19.14	90.44	N/A	N/A	AVG
	*	10360	31.24	17.03	48.27	68.2	-19.93	PK
Vertical		3992	55.61	0.05	55.66	74	-18.34	PK
		3992	36.83	0.05	36.88	54	-17.12	AVG
		5143.5	45.02	19.22	64.24	74	-9.76	PK
		5149.8	34.23	19.22	53.45	54	-0.55	AVG
	@	5180	94.98	19.14	114.12	N/A	N/A	PK
	@	5180	87.18	19.14	106.32	N/A	N/A	AVG
	*	10360	31.79	17.03	48.82	68.2	-19.38	PK

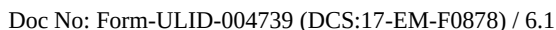
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	44
------	---------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	43.05	0.05	43.1	74	-30.9	PK
		5087.85	29.51	19.19	48.7	54	-5.3	AVG
		5103.95	41.53	19.24	60.77	74	-13.23	PK
	@	5220	81.69	19.04	100.73	N/A	N/A	PK
	@	5220	73.11	19.04	92.15	N/A	N/A	AVG
	*	10440	30.78	17.45	48.23	68.2	-19.97	PK
Vertical		3992	55.02	0.05	55.07	74	-18.93	PK
		3992	38.45	0.05	38.5	54	-15.5	AVG
		5092.05	41.36	19.22	60.58	74	-13.42	PK
		5145.6	30.08	19.22	49.3	54	-4.7	AVG
	@	5220	95.43	19.04	114.47	N/A	N/A	PK
	@	5220	87.29	19.04	106.33	N/A	N/A	AVG
	*	10440	30.07	17.45	47.52	68.2	-20.68	PK

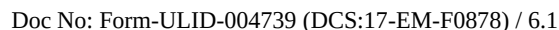
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	48
------	---------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	42.61	0.05	42.66	74	-31.34	PK
		5057.4	41.04	19.03	60.07	74	-13.93	PK
		5066.5	29.58	19.07	48.65	54	-5.35	AVG
	@	5240	83.21	18.99	102.2	N/A	N/A	PK
	@	5240	74.01	18.99	93	N/A	N/A	AVG
	*	10480	30.4	17.55	47.95	68.2	-20.25	PK
Vertical		3992	55.5	0.05	55.55	74	-18.45	PK
		3992	38.95	0.05	39	54	-15	AVG
		5149.8	48.67	19.22	67.89	74	-6.11	PK
		5149.8	34.74	19.22	53.96	54	-0.04	AVG
	@	5240	99.84	18.99	118.83	N/A	N/A	PK
	@	5240	90.52	18.99	109.51	N/A	N/A	AVG
	*	10480	33.86	17.55	51.41	68.2	-16.79	PK

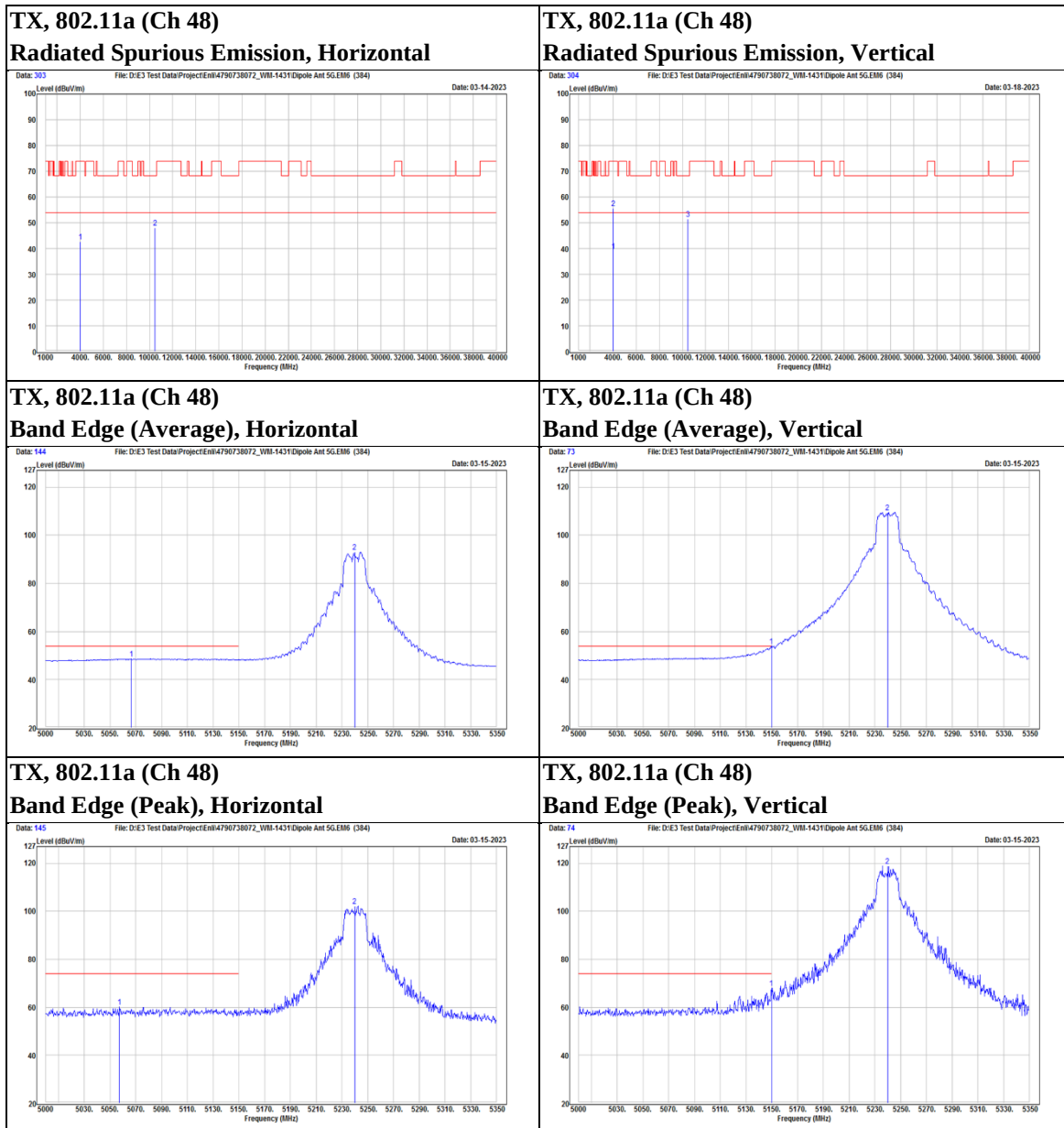
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	52
------	---------	---------	----

Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	3992	47.06	0.05	47.11	74	-26.89	PK
	@	5260	83.65	18.91	102.56	N/A	N/A	PK
	@	5260	76.2	18.91	95.11	N/A	N/A	AVG
		5451	39.32	19.62	58.94	74	-15.06	PK
		5457.9	27.47	19.63	47.1	54	-6.9	AVG
	*	10520	31.27	17.63	48.9	68.2	-19.3	PK
Vertical		3992	55.44	0.05	55.49	74	-18.51	PK
		3992	38.85	0.05	38.9	54	-15.1	AVG
	@	5260	99.6	18.91	118.51	N/A	N/A	PK
	@	5260	90.84	18.91	109.75	N/A	N/A	AVG
		5350.8	34.14	18.71	52.85	54	-1.15	AVG
		5358.6	46.48	18.78	65.26	74	-8.74	PK
	*	10520	30.54	17.63	48.17	68.2	-20.03	PK

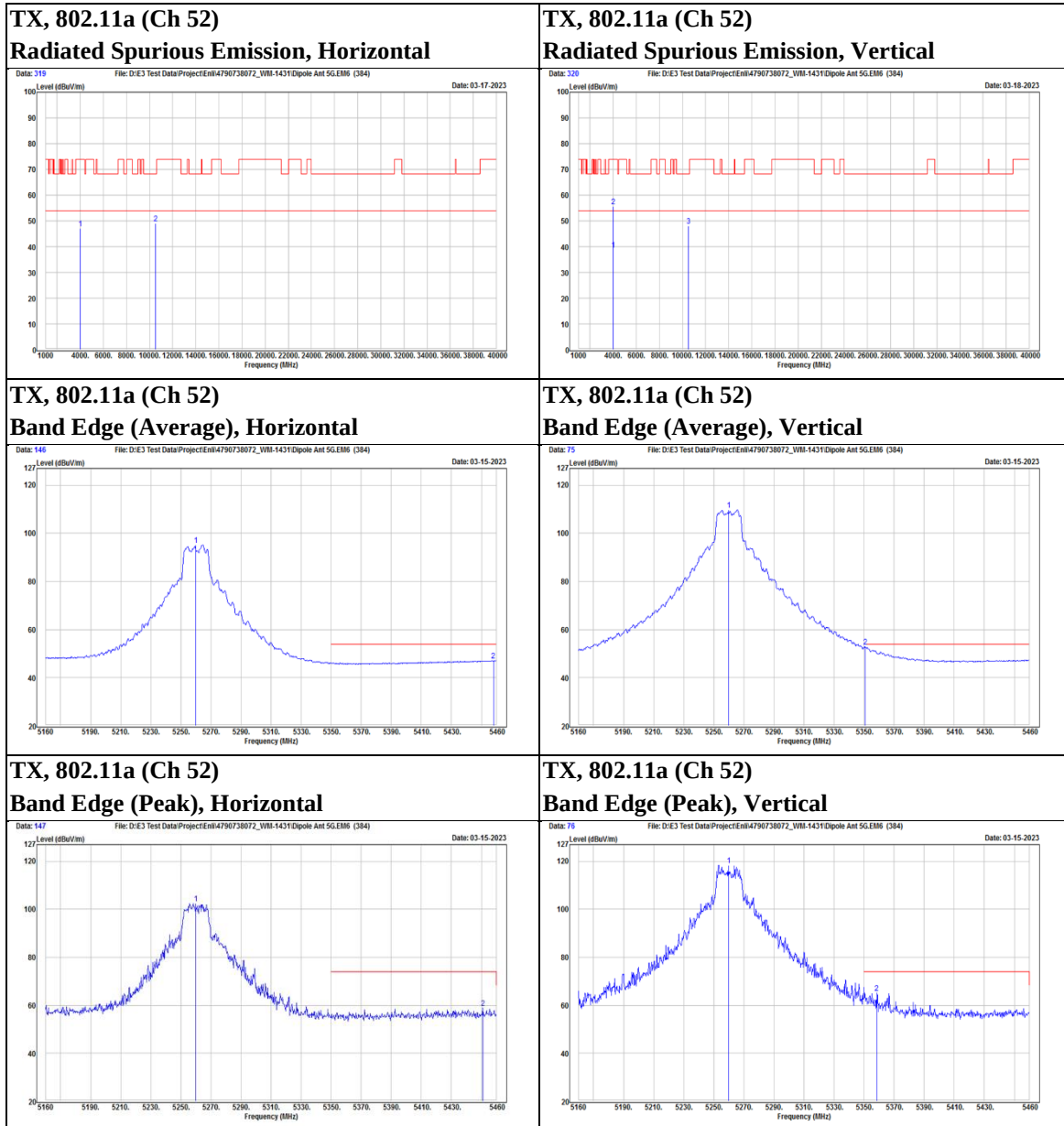
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	60
------	---------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	45.82	0.05	45.87	74	-28.13	PK
	@	5300	81.5	18.73	100.23	N/A	N/A	PK
	@	5300	73.23	18.73	91.96	N/A	N/A	AVG
		5435.4	39.97	19.49	59.46	74	-14.54	PK
		5457.3	27.47	19.63	47.1	54	-6.9	AVG
	*	10600	31.15	17.71	48.86	74	-25.14	PK
Vertical		3992	55.05	0.05	55.1	74	-18.9	PK
		3992	38.55	0.05	38.6	54	-15.4	AVG
	@	5300	97.15	18.73	115.88	N/A	N/A	PK
	@	5300	88.17	18.73	106.9	N/A	N/A	AVG
		5350.8	29.43	18.71	48.14	54	-5.86	AVG
		5425.8	39.64	19.4	59.04	74	-14.96	PK
	*	10600	33.01	17.71	50.72	74	-23.28	PK

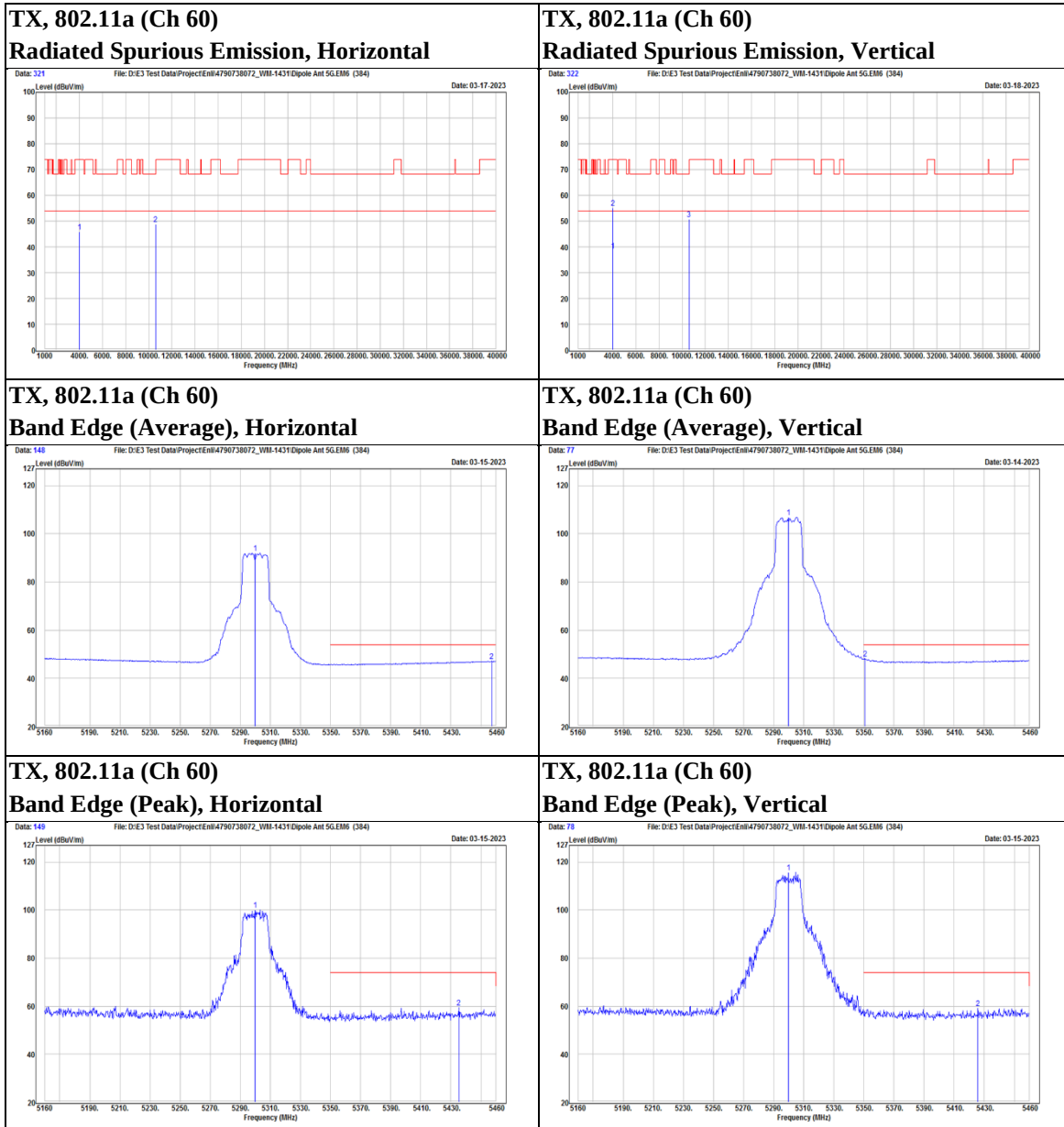
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	64
------	---------	---------	----

Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	3992	45.83	0.05	45.88	74	-28.12	PK
	@	5320	82.09	18.72	100.81	N/A	N/A	PK
	@	5320	72.57	18.72	91.29	N/A	N/A	AVG
		5421.3	39.6	19.36	58.96	74	-15.04	PK
		5453.1	27.4	19.63	47.03	54	-6.97	AVG
	*	10640	31.1	17.67	48.77	74	-25.23	PK
Vertical		3992	56.4	0.05	56.45	74	-17.55	PK
		3992	39.84	0.05	39.89	54	-14.11	AVG
	@	5320	96.86	18.72	115.58	N/A	N/A	PK
	@	5320	87.56	18.72	106.28	N/A	N/A	AVG
		5350.5	49.78	18.7	68.48	74	-5.52	PK
		5350.5	34.76	18.7	53.46	54	-0.54	AVG
	*	10640	33.34	17.67	51.01	74	-22.99	PK

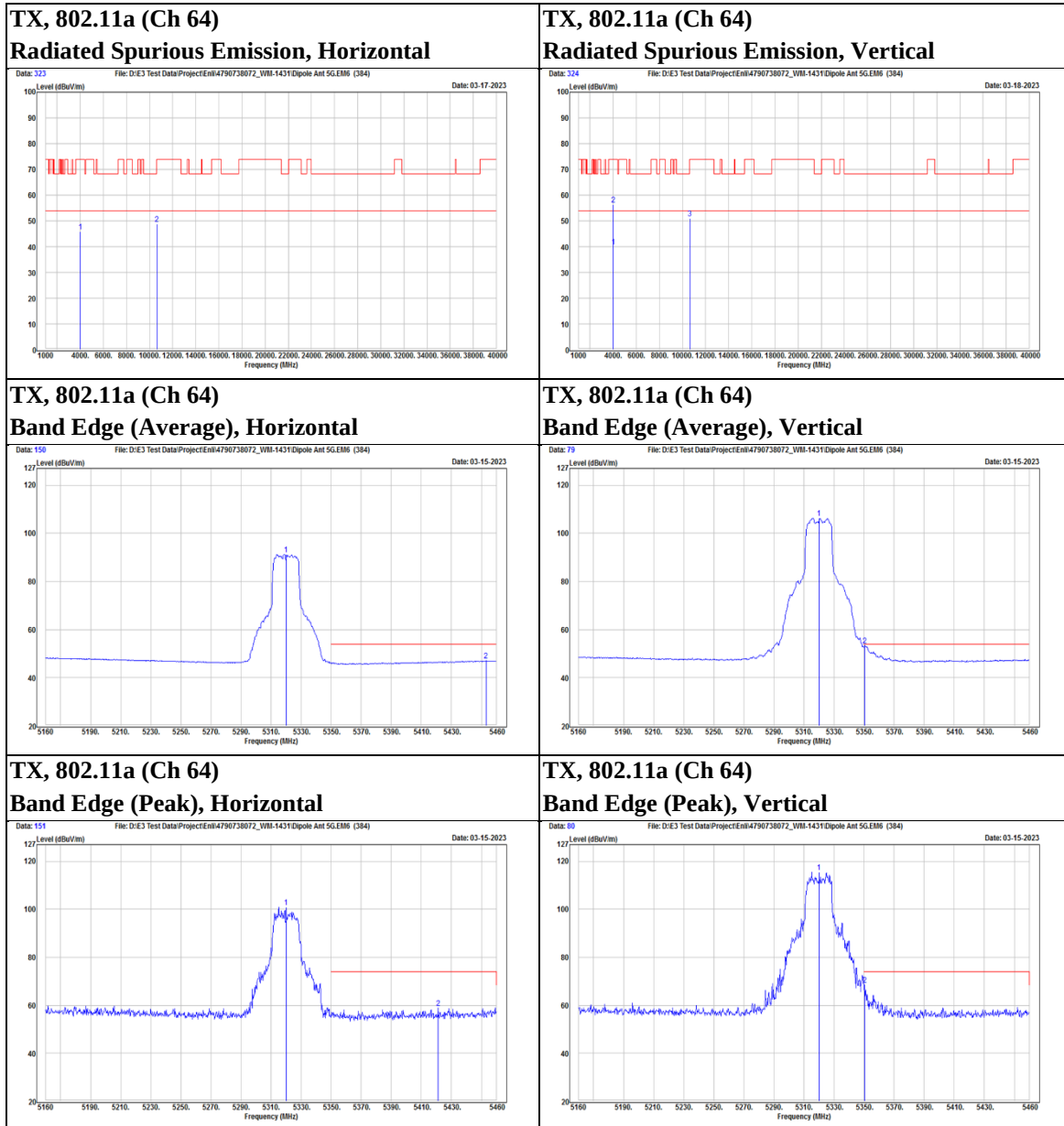
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	100
------	---------	---------	-----

Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	3992	45.28	0.05	45.33	74	-28.67	PK
		5452.5	39.12	19.63	58.75	74	-15.25	PK
		5453.55	27.61	19.63	47.24	54	-6.76	AVG
		5463.7	38.9	19.64	58.54	68.2	-9.66	PK
	@	5500	80.1	19.69	99.79	N/A	N/A	PK
	@	5500	71.01	19.69	90.7	N/A	N/A	AVG
	*	11000	31.18	17.88	49.06	74	-24.94	PK
Vertical		3992	55.11	0.05	55.16	74	-18.84	PK
		3992	38.71	0.05	38.76	54	-15.24	AVG
		5456.35	30.42	19.63	50.05	54	-3.95	AVG
		5459.85	42.99	19.64	62.63	74	-11.37	PK
		5464.4	48.28	19.64	67.92	68.2	-0.28	PK
	@	5500	96.37	19.69	116.06	N/A	N/A	PK
	@	5500	87.76	19.69	107.45	N/A	N/A	AVG
	*	11000	31.08	17.88	48.96	74	-25.04	PK

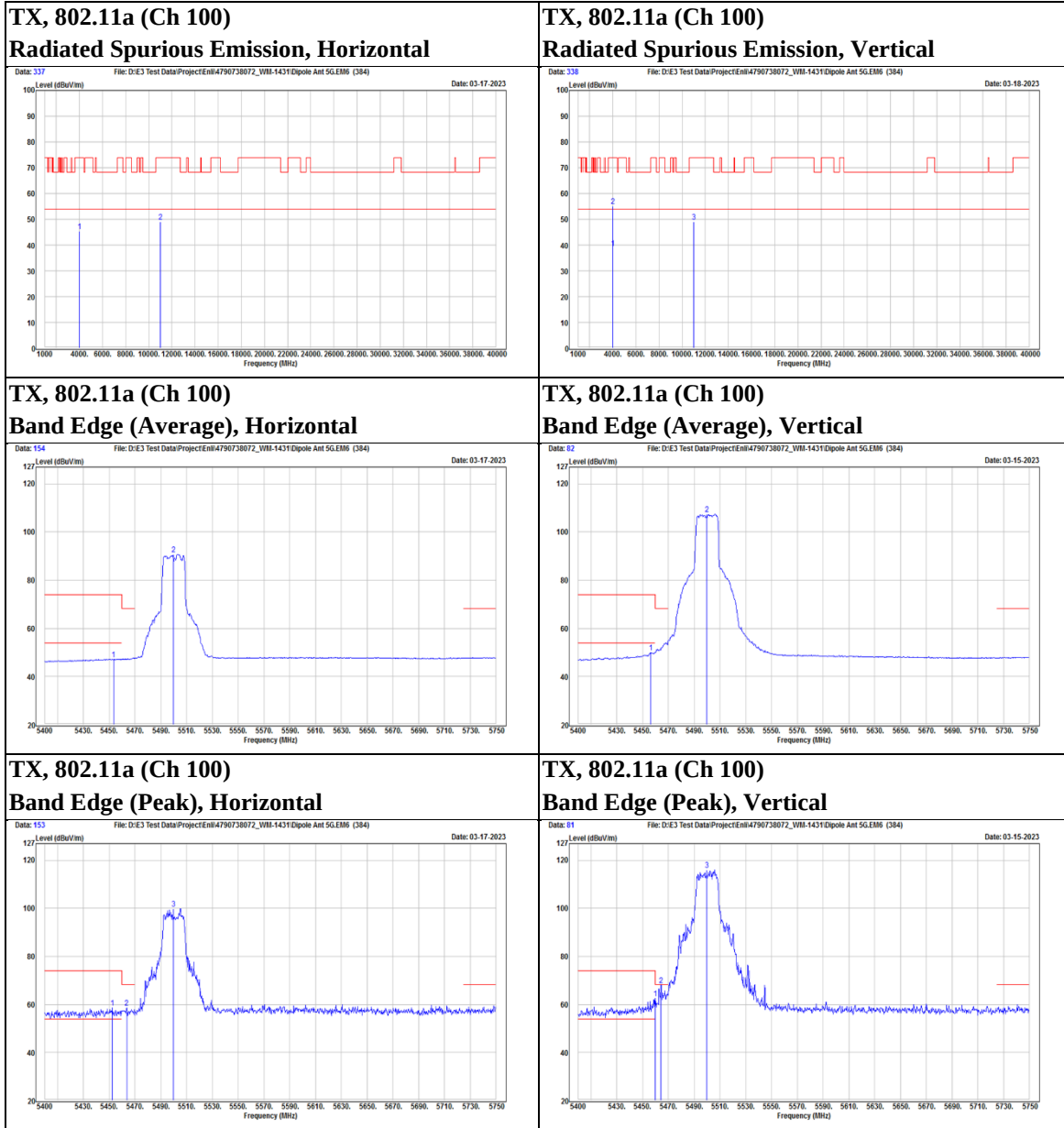
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	116
------	---------	---------	-----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	45.72	0.05	45.77	74	-28.23	PK
		5425.55	39.23	19.39	58.62	74	-15.38	PK
		5455.3	27.59	19.63	47.22	54	-6.78	AVG
		5468.95	38.91	19.65	58.56	68.2	-9.64	PK
	@	5580	81.64	19.58	101.22	N/A	N/A	PK
	@	5580	73.95	19.58	93.53	N/A	N/A	AVG
		5728.3	39.34	19.86	59.2	68.2	-9	PK
	*	11160	31.14	18.05	49.19	74	-24.81	PK
Vertical		3992	56.34	0.05	56.39	74	-17.61	PK
		3992	39.84	0.05	39.89	54	-14.11	AVG
		5456.35	28.56	19.63	48.19	54	-5.81	AVG
		5458.1	39.84	19.64	59.48	74	-14.52	PK
		5467.2	41.7	19.65	61.35	68.2	-6.85	PK
	@	5580	99.71	19.58	119.29	N/A	N/A	PK
	@	5580	90.94	19.58	110.52	N/A	N/A	AVG
		5747.55	39.6	20.03	59.63	68.2	-8.57	PK
	*	11160	34.02	18.05	52.07	74	-21.93	PK

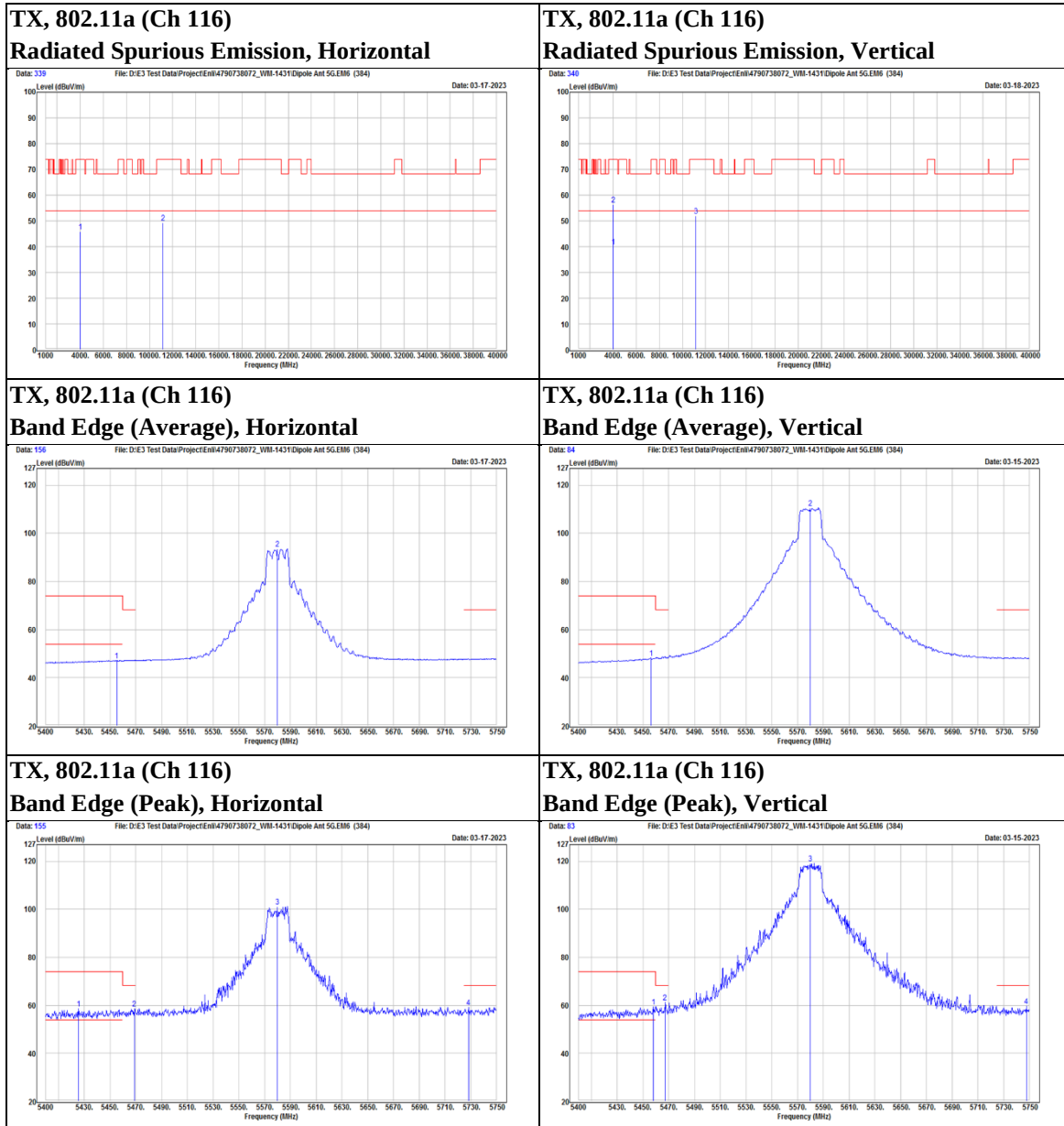
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11a	Channel	140
------	---------	---------	-----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	44.49	0.05	44.54	74	-29.46	PK
		5448.65	40.14	19.61	59.75	74	-14.25	PK
		5453.55	28.75	19.63	48.38	54	-5.62	AVG
	@	5700	91.42	19.6	111.02	N/A	N/A	PK
	@	5700	83.09	19.6	102.69	N/A	N/A	AVG
		5725.15	47.88	19.83	67.71	68.2	-0.49	PK
	*	11400	29.82	18.46	48.28	74	-25.72	PK
Vertical		3992	56.93	0.05	56.98	74	-17.02	PK
		3992	40.57	0.05	40.62	54	-13.38	AVG
		5448.3	27.57	19.61	47.18	54	-6.82	AVG
		5452.5	38.86	19.63	58.49	74	-15.51	PK
	@	5700	94.2	19.6	113.8	N/A	N/A	PK
	@	5700	85.52	19.6	105.12	N/A	N/A	AVG
		5725.85	47.86	19.84	67.7	68.2	-0.5	PK
	*	11400	34.34	18.46	52.8	74	-21.2	PK

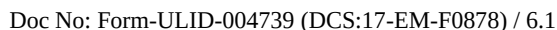
Underwriters Laboratories Taiwan Co., Ltd.

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

Telephone : +886-2-7737-3000

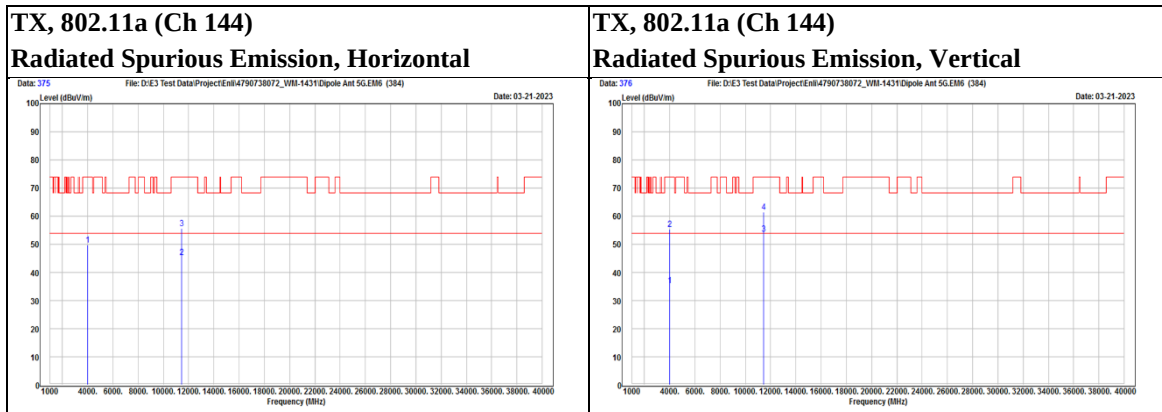
Facsimile (FAX) : +886-3-583-7948

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



Mode	802.11a	Channel	144
------	---------	---------	-----

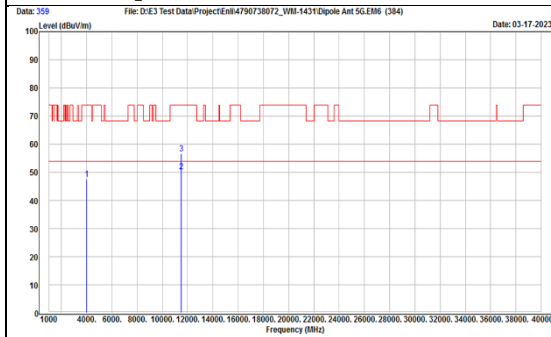
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	49.77	0.05	49.82	74	-24.18	PK
		11440	36.91	18.63	55.54	74	-18.46	PK
		11440	26.83	18.63	45.46	54	-8.54	AVG
Vertical		3992	55.27	0.05	55.32	74	-18.68	PK
		3992	35.3	0.05	35.35	54	-18.65	AVG
		11440	42.79	18.63	61.42	74	-12.58	PK
		11440	35	18.63	53.63	54	-0.37	AVG



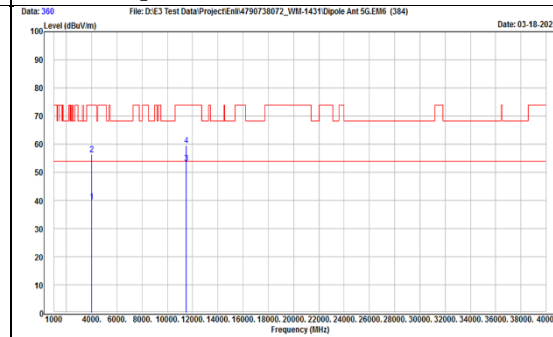
Mode	802.11a	Channel	149
------	---------	---------	-----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	47.51	0.05	47.56	74	-26.44	PK
		5561.5	40.36	19.55	59.91	68.2	-8.29	PK
		5657	39.42	19.65	59.07	73.4	-14.33	PK
	@	5745	80.99	20.01	101	N/A	N/A	PK
		11490	37.63	18.86	56.49	74	-17.51	PK
		11490	31.34	18.86	50.2	54	-3.8	AVG
Vertical		3992	56.33	0.05	56.38	74	-17.62	PK
		3992	39.54	0.05	39.59	54	-14.41	AVG
		5541	40.01	19.57	59.58	68.2	-8.62	PK
	@	5651	40.78	19.65	60.43	68.94	-8.51	PK
		5745	97.79	20.01	117.8	N/A	N/A	PK
		11490	40.54	18.86	59.4	74	-14.6	PK
		11490	34.24	18.86	53.1	54	-0.9	AVG

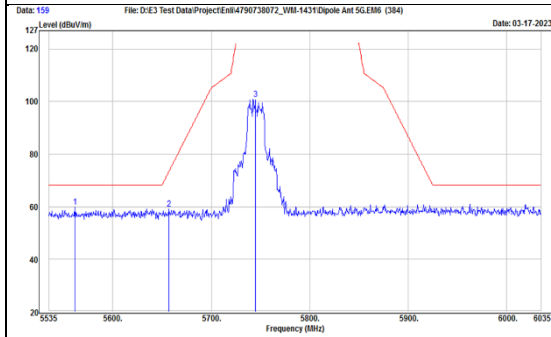
TX, 802.11a (Ch 149)
Radiated Spurious Emission, Horizontal



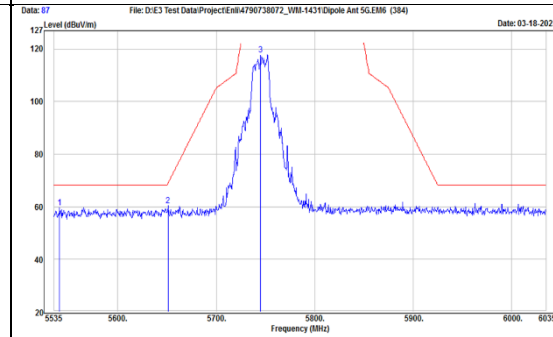
TX, 802.11a (Ch 149)
Radiated Spurious Emission, Vertical



TX, 802.11a (Ch 149)
Band Edge (Peak), Horizontal



TX, 802.11a (Ch 149)
Band Edge (Peak), Vertical



Mode	802.11a	Channel	157
------	---------	---------	-----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	47.34	0.05	47.39	74	-26.61	PK
		5594.5	39.25	19.59	58.84	68.2	-9.36	PK
		5652	39.54	19.65	59.19	69.69	-10.5	PK
	@	5785	79.58	20.37	99.95	N/A	N/A	PK
		5881	39.75	20.69	60.44	100.74	-40.3	PK
		5952	39.98	20.76	60.74	68.2	-7.46	PK
		11570	36.93	18.65	55.58	74	-18.42	PK
		11570	29.25	18.65	47.9	54	-6.1	AVG
Vertical		3992	55.73	0.05	55.78	74	-18.22	PK
		3992	38.94	0.05	38.99	54	-15.01	AVG
		5639	41.23	19.64	60.87	68.2	-7.33	PK
		5694.5	39.71	19.6	59.31	101.15	-41.84	PK
	@	5785	95.89	20.37	116.26	N/A	N/A	PK
		5879.5	40.32	20.68	61	101.86	-40.86	PK
		5985	40.37	20.78	61.15	68.2	-7.05	PK
		11570	40.06	18.65	58.71	74	-15.29	PK
		11570	34.77	18.65	53.42	54	-0.58	AVG

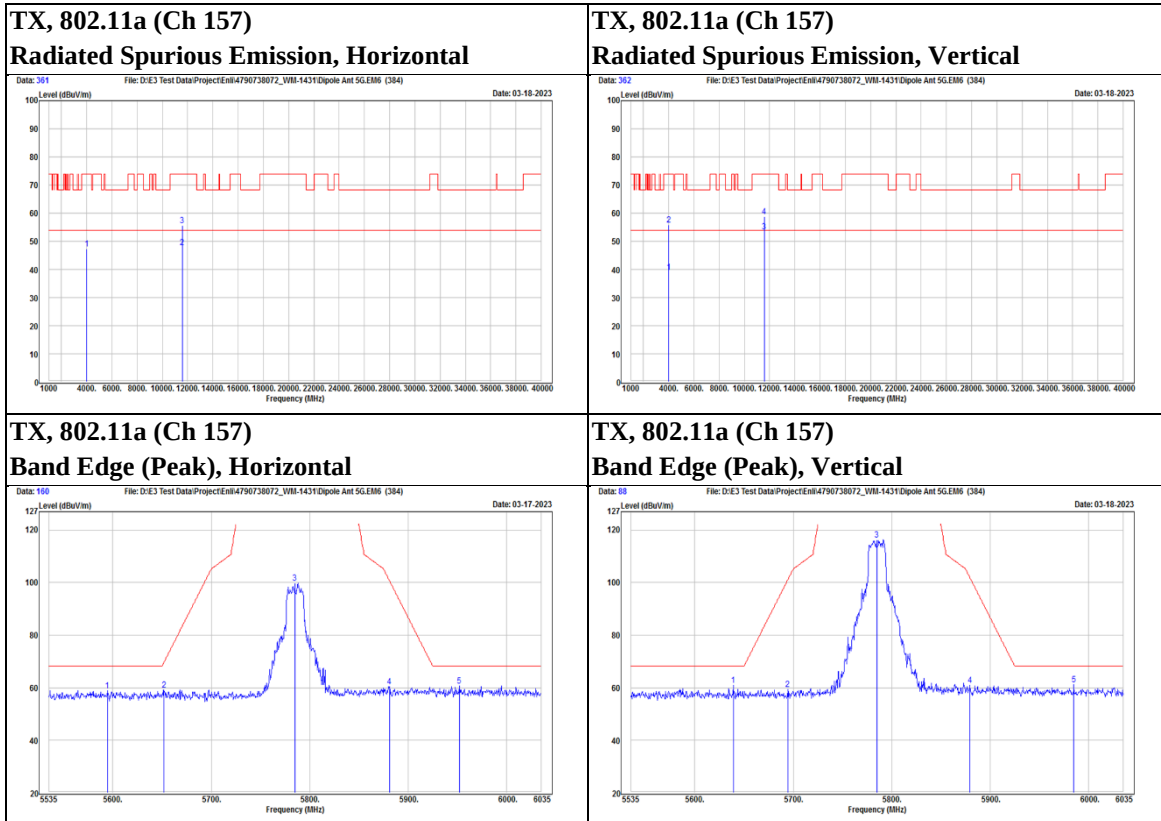
Underwriters Laboratories Taiwan Co., Ltd.

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

Telephone : +886-2-7737-3000

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

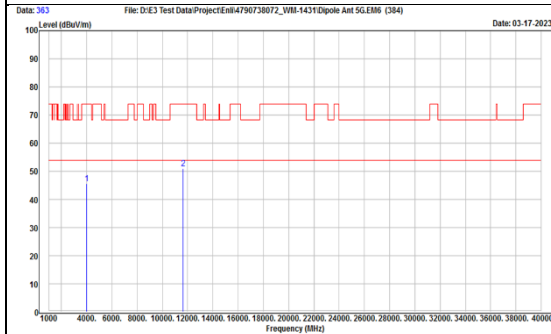
Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1



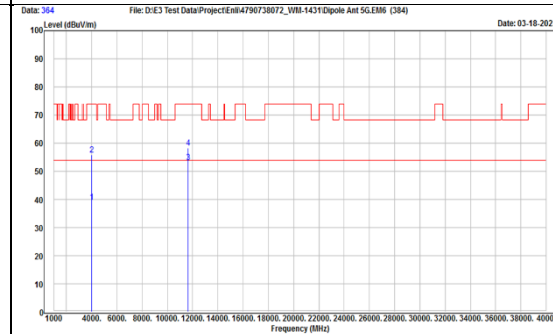
Mode	802.11a	Channel	165
------	---------	---------	-----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	45.65	0.05	45.7	74	-28.3	PK
	@	5825	79.33	20.57	99.9	N/A	N/A	PK
		5914.5	40.9	20.71	61.61	75.94	-14.33	PK
		5949.5	40.43	20.75	61.18	68.2	-7.02	PK
	*	11650	32.66	18.38	51.04	74	-22.96	PK
Vertical		3992	55.93	0.05	55.98	74	-18.02	PK
		3992	38.94	0.05	38.99	54	-15.01	AVG
	@	5825	95.93	20.57	116.5	N/A	N/A	PK
		5879	40.42	20.68	61.1	102.23	-41.13	PK
		5937.5	40.29	20.74	61.03	68.2	-7.17	PK
		11650	40.02	18.38	58.4	74	-15.6	PK
		11650	34.71	18.38	53.09	54	-0.91	AVG

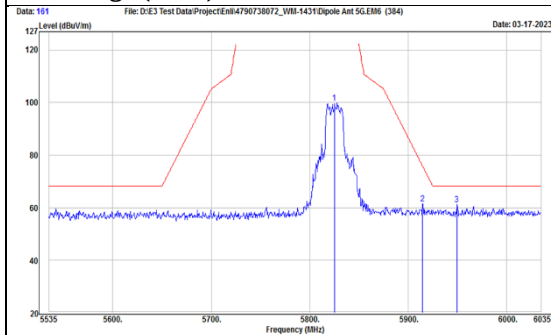
TX, 802.11a (Ch 165) Radiated Spurious Emission, Horizontal



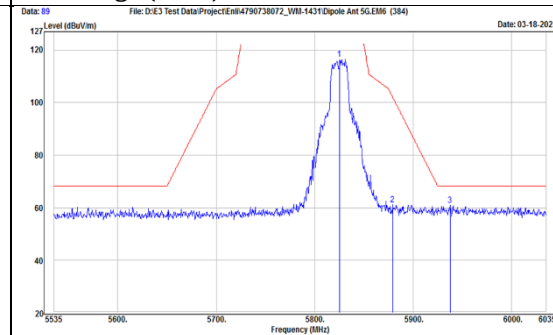
TX, 802.11a (Ch 165) Radiated Spurious Emission, Vertical



TX, 802.11a (Ch 165) Band Edge (Peak), Horizontal



TX, 802.11a (Ch 165) Band Edge (Peak), Vertical



Mode	802.11ax(HE20)	Channel	36
------	----------------	---------	----

Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	3992	43.68	0.05	43.73	74	-30.27	PK
		5112	29.44	19.25	48.69	54	-5.31	AVG
		5145.95	41.51	19.22	60.73	74	-13.27	PK
	@	5180	78.52	19.14	97.66	N/A	N/A	PK
	@	5180	67.85	19.14	86.99	N/A	N/A	AVG
	*	10360	31.34	17.03	48.37	68.2	-19.83	PK
Vertical		3992	55.38	0.05	55.43	74	-18.57	PK
		3992	38.78	0.05	38.83	54	-15.17	AVG
		5144.9	44.2	19.22	63.42	74	-10.58	PK
		5149.8	34.12	19.22	53.34	54	-0.66	AVG
	@	5180	95.32	19.14	114.46	N/A	N/A	PK
	@	5180	85.4	19.14	104.54	N/A	N/A	AVG
	*	10360	30.12	17.03	47.15	68.2	-21.05	PK

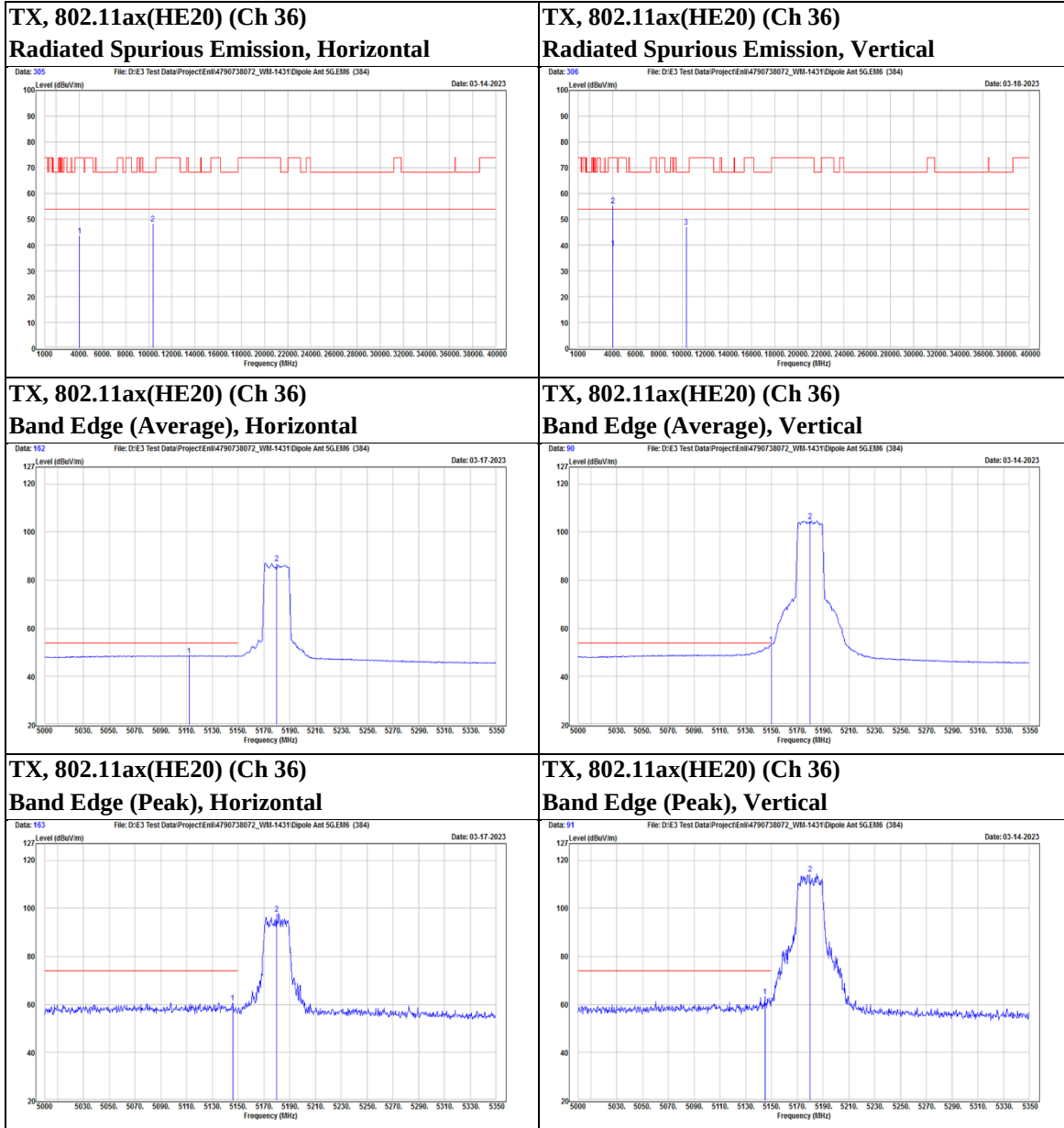
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11ax(HE20)	Channel	44
------	----------------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	43.35	0.05	43.4	74	-30.6	PK
		5117.25	41.09	19.25	60.34	74	-13.66	PK
		5126.35	29.51	19.24	48.75	54	-5.25	AVG
	@	5220	79.23	19.04	98.27	N/A	N/A	PK
	@	5220	71.32	19.04	90.36	N/A	N/A	AVG
	*	10440	30.72	17.45	48.17	68.2	-20.03	PK
Vertical		3992	55.58	0.05	55.63	74	-18.37	PK
		3992	38.9	0.05	38.95	54	-15.05	AVG
		5127.75	41.81	19.23	61.04	74	-12.96	PK
		5149.1	30.3	19.22	49.52	54	-4.48	AVG
	@	5220	97.14	19.04	116.18	N/A	N/A	PK
	@	5220	87.54	19.04	106.58	N/A	N/A	AVG
	*	10440	30.12	17.45	47.57	68.2	-20.63	PK

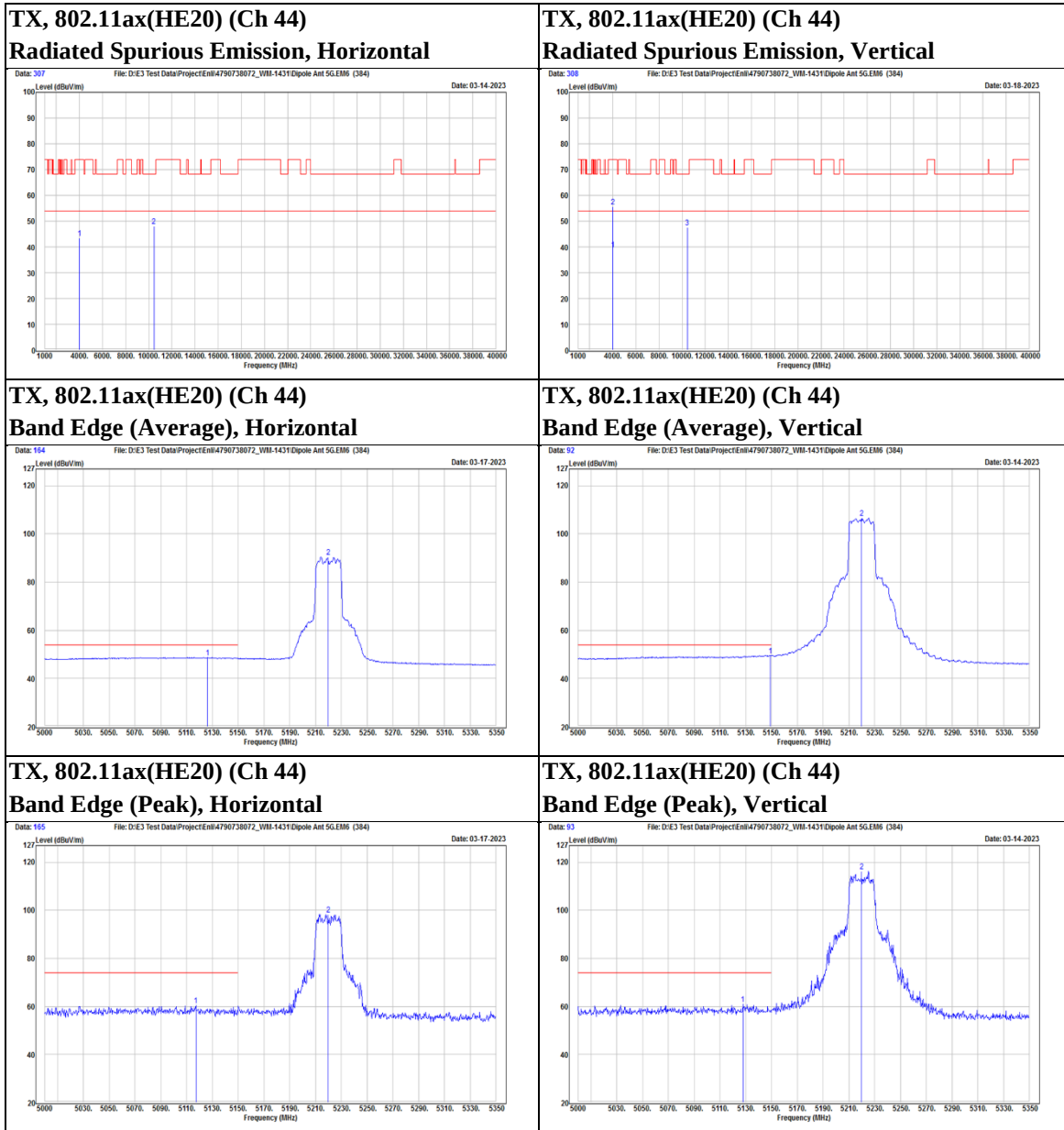
Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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



Mode	802.11ax(HE20)	Channel	48
------	----------------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	42.5	0.05	42.55	74	-31.45	PK
		5102.9	29.6	19.24	48.84	54	-5.16	AVG
		5106.75	41.22	19.25	60.47	74	-13.53	PK
	@	5240	83.77	18.99	102.76	N/A	N/A	PK
	@	5240	73.13	18.99	92.12	N/A	N/A	AVG
	*	10480	30.49	17.55	48.04	68.2	-20.16	PK
Vertical		3992	54.65	0.05	54.7	74	-19.3	PK
		3992	38.17	0.05	38.22	54	-15.78	AVG
		5145.95	45.98	19.22	65.2	74	-8.8	PK
		5148.75	32.44	19.22	51.66	54	-2.34	AVG
	@	5240	97.87	18.99	116.86	N/A	N/A	PK
	@	5240	88.94	18.99	107.93	N/A	N/A	AVG
	*	10480	33.31	17.55	50.86	68.2	-17.34	PK

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building 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