



Test report No. : 4790371368-US-R1-V0  
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Issued date : 2022/11/9  
FCC ID : RYK-WPEQ268AXB

Mode	802.11ax(HE40)	Channel	142
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	11420	31.83	18.95	50.78	74	-23.22	PK
Vertical	*	11420	34.67	18.95	53.62	74	-20.38	PK

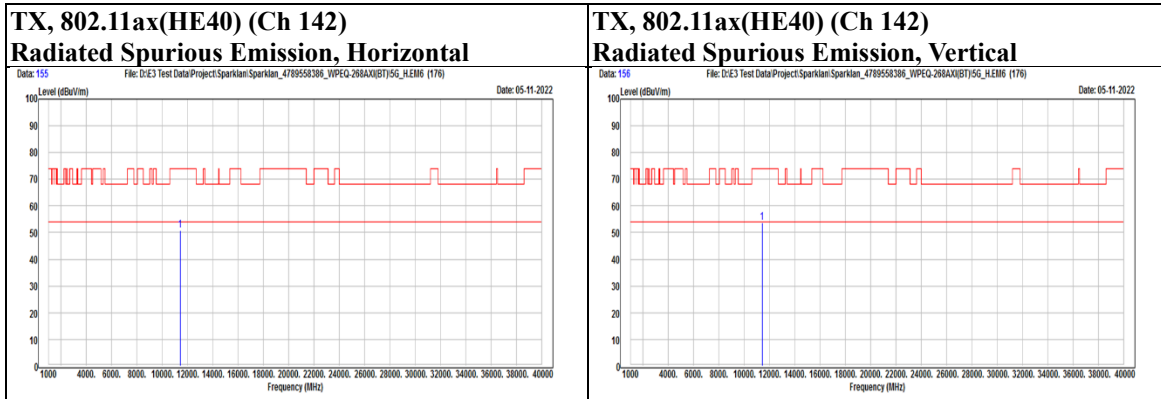
**Underwriters Laboratories Taiwan Co., Ltd.**

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

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**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



Mode	802.11ax(HE40)	Channel	151
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5546	40.57	13.83	54.4	68.2	-13.8	PK
		5653	41	13.67	54.67	70.43	-15.76	PK
	@	5755	82.57	14.22	96.79	N/A	N/A	PK
	*	11510	30.79	19.34	50.13	74	-23.87	PK
Vertical		5631	40.64	13.68	54.32	68.2	-13.88	PK
		5692.5	45.24	13.72	58.96	99.67	-40.71	PK
	@	5755	96.74	14.22	110.96	N/A	N/A	PK
	*	11510	31.5	19.34	50.84	74	-23.16	PK

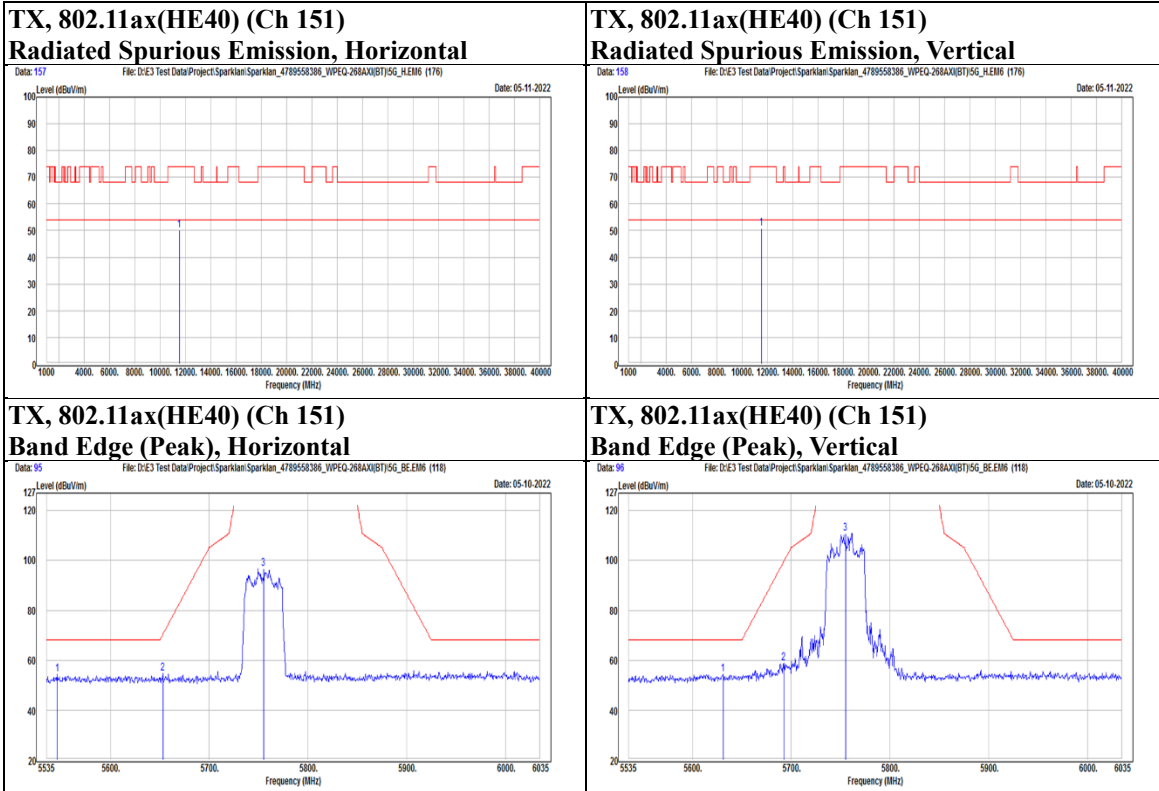
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Mode	802.11ax(HE40)	Channel	159
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5795	82.9	14.52	97.42	N/A	N/A	PK
		5899	40.25	14.96	55.21	87.4	-32.19	PK
		5950	40.75	14.94	55.69	68.2	-12.51	PK
	*	11590	31.64	18.99	50.63	74	-23.37	PK
Vertical	@	5795	96.74	14.52	111.26	N/A	N/A	PK
		5887.5	40.84	14.89	55.73	95.92	-40.19	PK
		5933	41.52	14.95	56.47	68.2	-11.73	PK
	*	11590	31.23	18.99	50.22	74	-23.78	PK

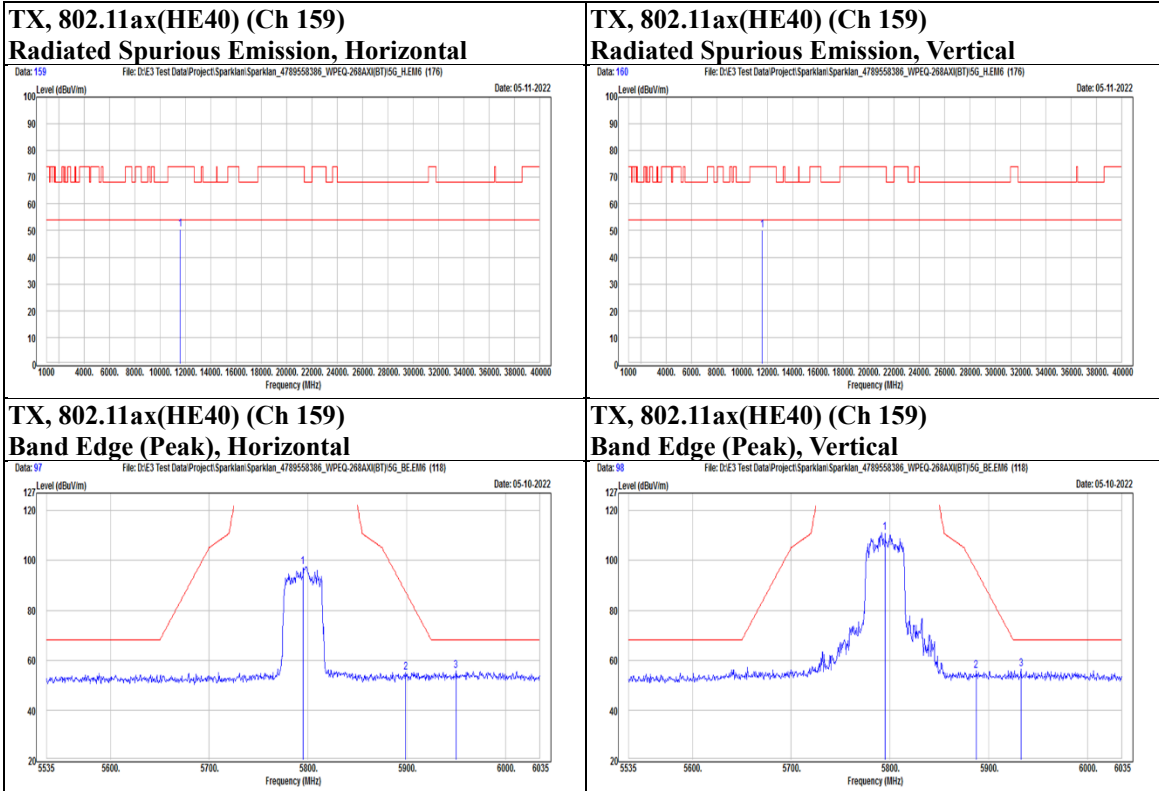
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Mode	802.11ax(HE80)	Channel	42
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5124.95	30.46	13.43	43.89	54	-10.11	AVG
		5146.65	42.01	13.41	55.42	74	-18.58	PK
	@	5210	77.15	13.18	90.33	N/A	N/A	PK
	@	5210	67.99	13.18	81.17	N/A	N/A	AVG
	*	10420	30.07	17.76	47.83	68.2	-20.37	PK
Vertical		5145.6	42.8	13.4	56.2	74	-17.8	PK
		5149.45	34.86	13.4	48.26	54	-5.74	AVG
	@	5210	87.96	13.18	101.14	N/A	N/A	PK
	@	5210	80.56	13.18	93.74	N/A	N/A	AVG
	*	10420	30.14	17.76	47.9	68.2	-20.3	PK

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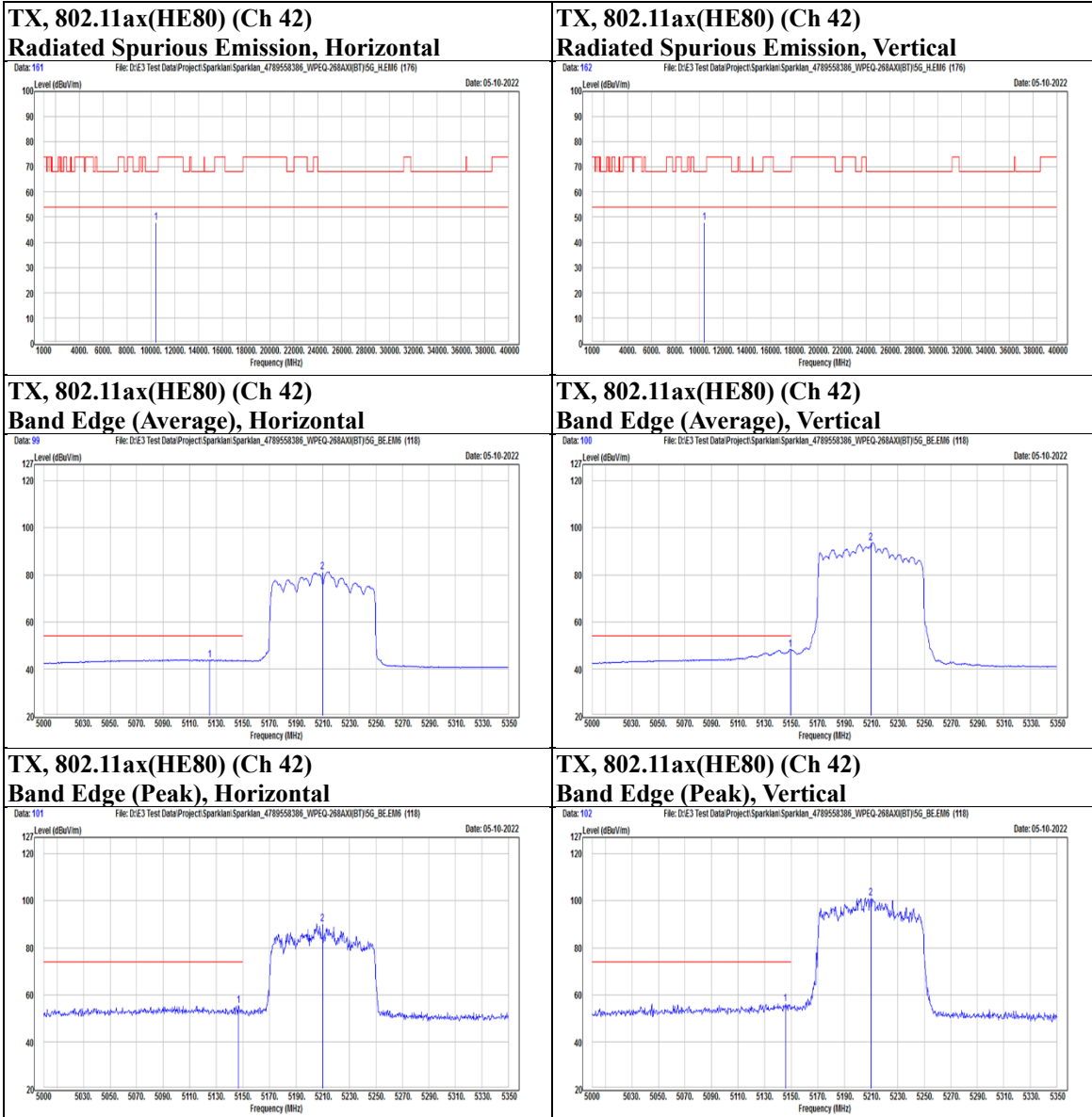
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Mode	802.11ax(HE80)	Channel	58
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5290	77.41	12.79	90.2	N/A	N/A	PK
	@	5290	67.71	12.79	80.5	N/A	N/A	AVG
		5440.5	39.79	13.47	53.26	74	-20.74	PK
		5456.1	28.21	13.54	41.75	54	-12.25	AVG
	*	10580	30.34	18.04	48.38	68.2	-19.82	PK
Vertical	@	5290	89.03	12.79	101.82	N/A	N/A	PK
	@	5290	81.31	12.79	94.1	N/A	N/A	AVG
		5352.3	29.9	13.03	42.93	54	-11.07	AVG
		5458.8	39.73	13.57	53.3	74	-20.7	PK
	*	10580	30.1	18.04	48.14	68.2	-20.06	PK

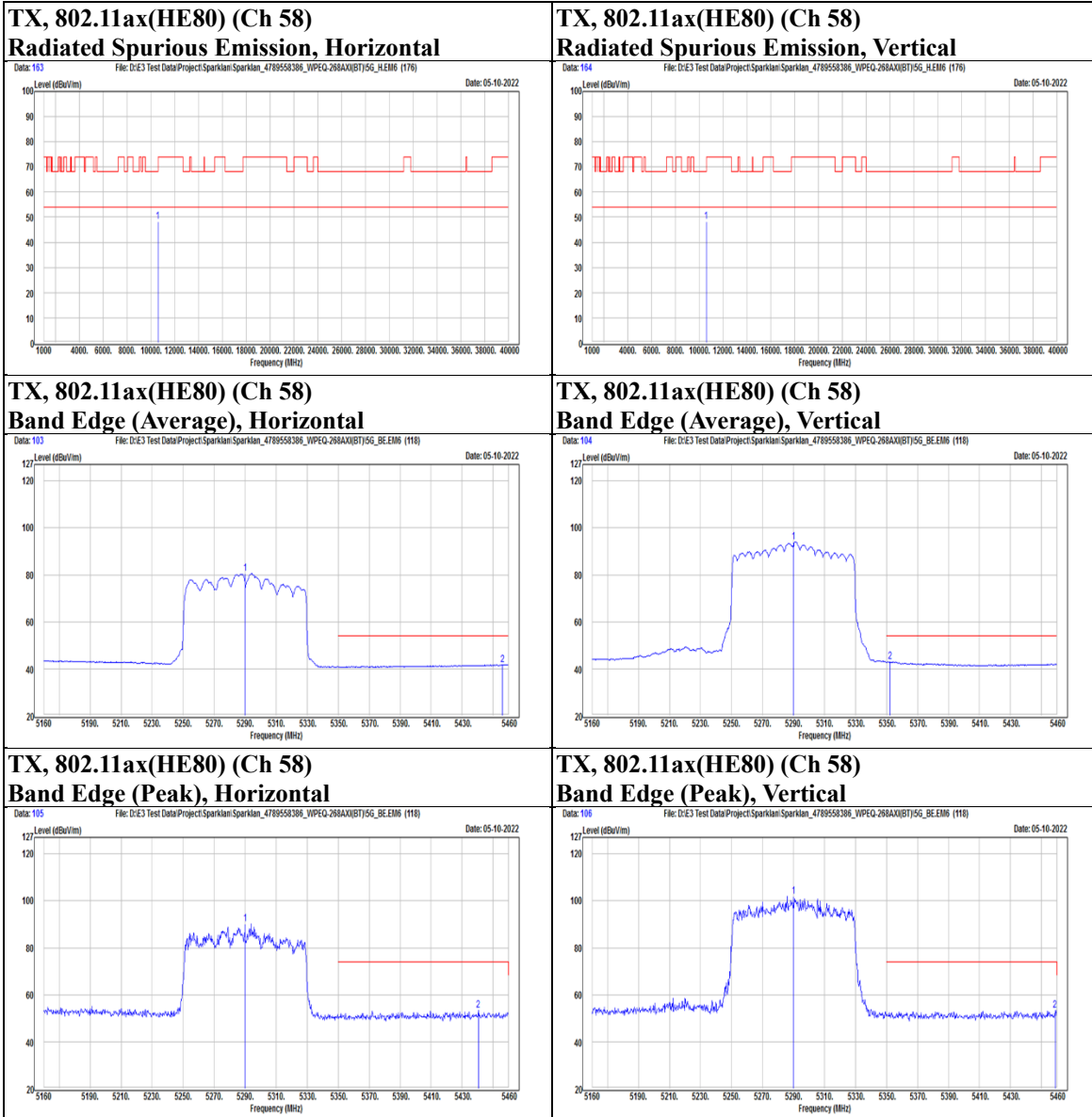
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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

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Mode	802.11ax(HE80)	Channel	106
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5445.15	40.29	13.5	53.79	74	-20.21	PK
		5445.15	30.29	13.5	43.79	54	-10.21	AVG
		5468.6	39.02	13.61	52.63	68.2	-15.57	PK
	@	5530	75.31	13.81	89.12	N/A	N/A	PK
	@	5530	65.5	13.81	79.31	N/A	N/A	AVG
	*	11060	31.09	18.44	49.53	74	-24.47	PK
Vertical		5458.45	43.23	13.56	56.79	74	-17.21	PK
		5458.45	32.1	13.56	45.66	54	-8.34	AVG
		5468.95	43.27	13.62	56.89	68.2	-11.31	PK
	@	5530	87.65	13.81	101.46	N/A	N/A	PK
	@	5530	77.1	13.81	90.91	N/A	N/A	AVG
	*	11060	31.4	18.44	49.84	74	-24.16	PK

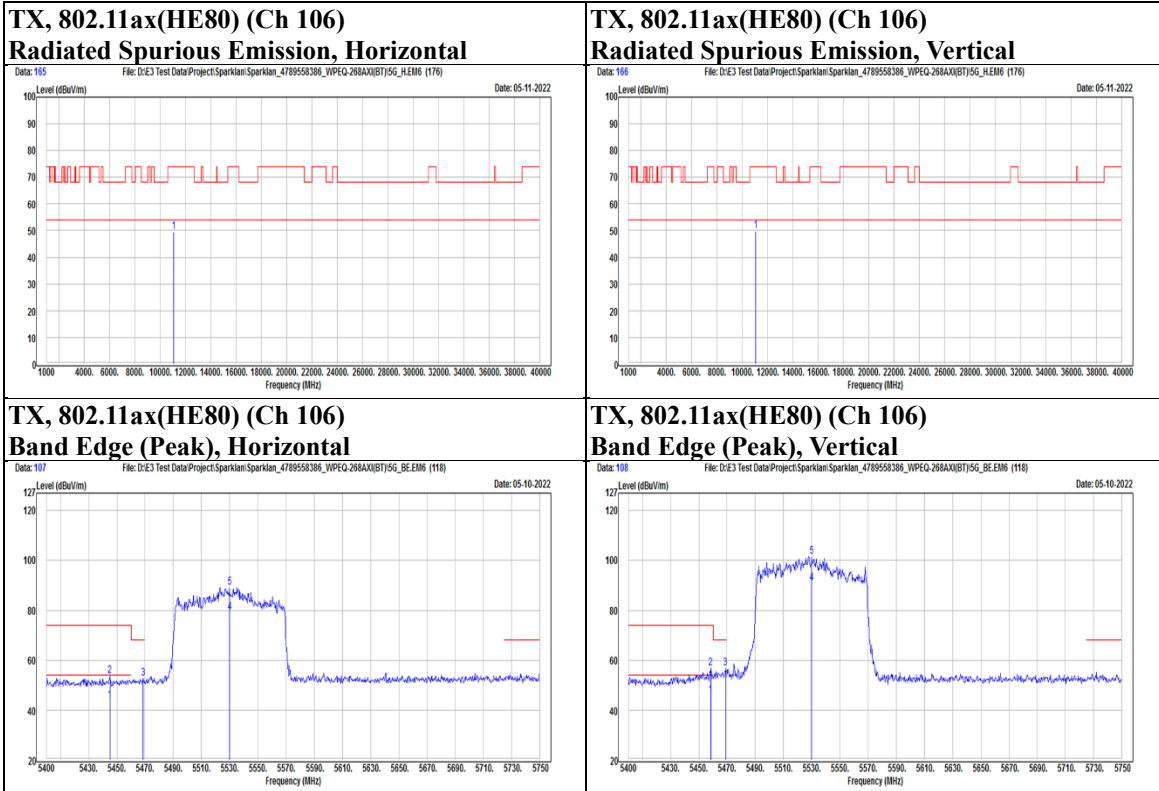
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Mode	802.11ax(HE80)	Channel	122
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5459.15	39.7	13.57	53.27	74	-20.73	PK
		5459.15	29.39	13.57	42.96	54	-11.04	AVG
		5463	39.33	13.58	52.91	68.2	-15.29	PK
	@	5610	79.73	13.69	93.42	N/A	N/A	PK
	@	5610	69.4	13.69	83.09	N/A	N/A	AVG
		5737.4	40.58	14.08	54.66	68.2	-13.54	PK
	*	11220	30.98	18.47	49.45	74	-24.55	PK
Vertical		5447.25	41.04	13.5	54.54	74	-19.46	PK
		5447.25	30.91	13.5	44.41	54	-9.59	AVG
		5466.5	42.79	13.61	56.4	68.2	-11.8	PK
	@	5610	93.03	13.69	106.72	N/A	N/A	PK
	@	5610	83.1	13.69	96.79	N/A	N/A	AVG
		5735.65	40.55	14.07	54.62	68.2	-13.58	PK
	*	11220	30.95	18.47	49.42	74	-24.58	PK

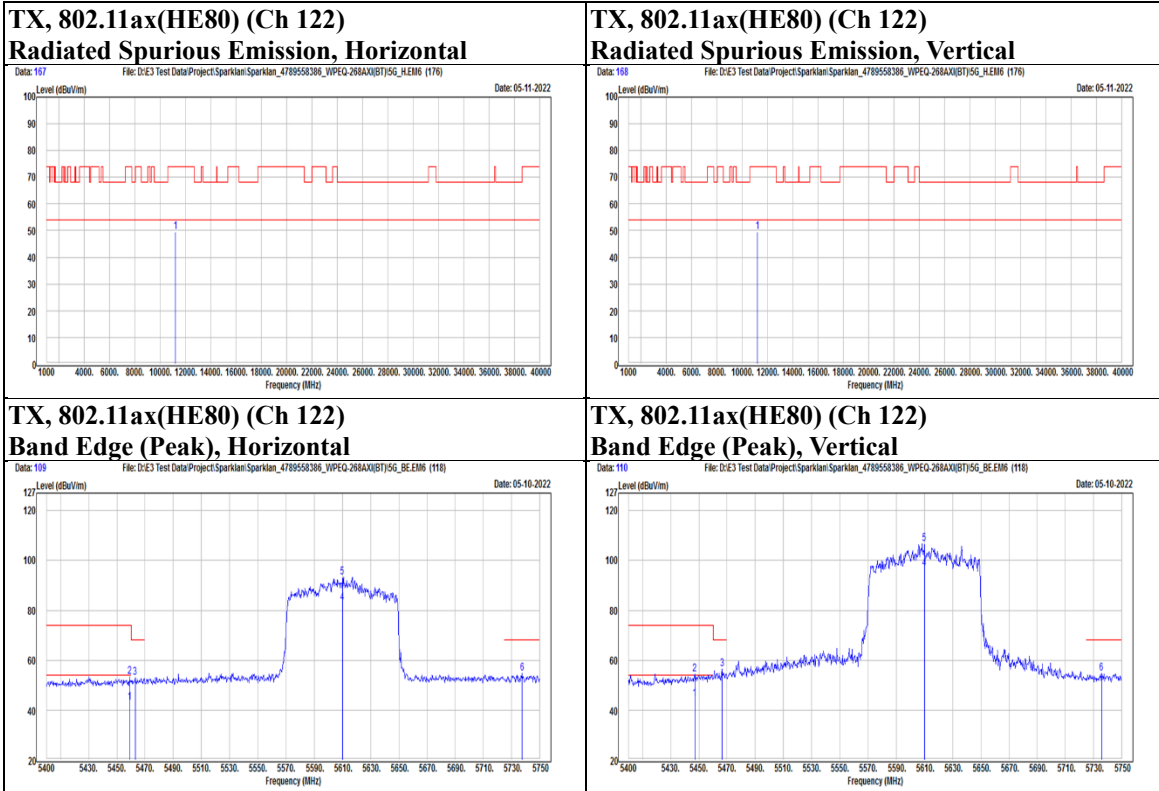
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Facsimile (FAX ) :+886-3-583-7948

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Mode	802.11ax(HE80)	Channel	138
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	*	11380	30.5	18.76	49.26	74	-24.74	PK
Vertical	*	11380	30.46	18.76	49.22	74	-24.78	PK

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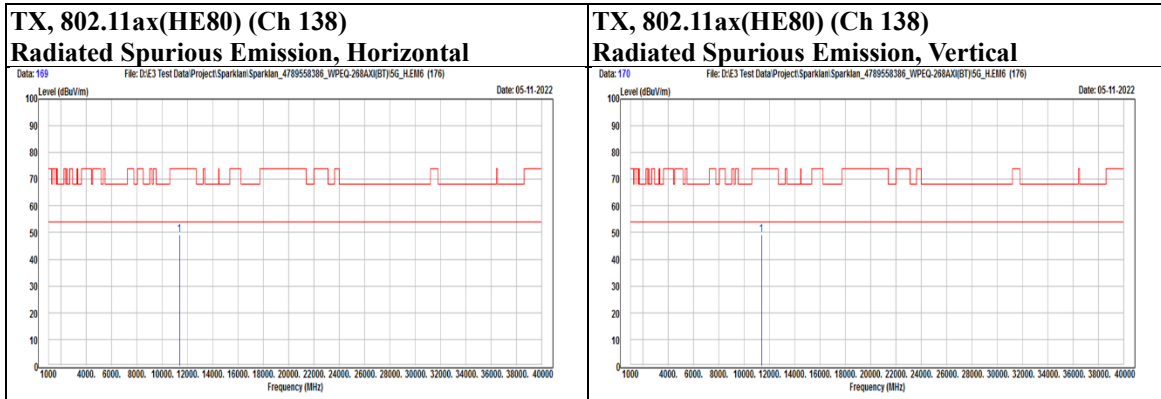
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Telephone :+886-2-7737-3000

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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

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Mode	802.11ax(HE80)	Channel	155
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5637	40.5	13.68	54.18	68.2	-14.02	PK
		5699.5	42.68	13.73	56.41	104.83	-48.42	PK
	@	5775	81.96	14.37	96.33	N/A	N/A	PK
		5903	40.24	14.97	55.21	84.44	-29.23	PK
		5964	41	14.96	55.96	68.2	-12.24	PK
	*	11550	31.09	19.16	50.25	74	-23.75	PK
Vertical		5650	47.77	13.67	61.44	68.2	-6.76	PK
		5690.5	55.92	13.71	69.63	98.2	-28.57	PK
	@	5775	95.8	14.37	110.17	N/A	N/A	PK
		5878	46.01	14.82	60.83	102.97	-42.14	PK
		5964	41	14.96	55.96	68.2	-12.24	PK
	*	11550	30.85	19.16	50.01	74	-23.99	PK

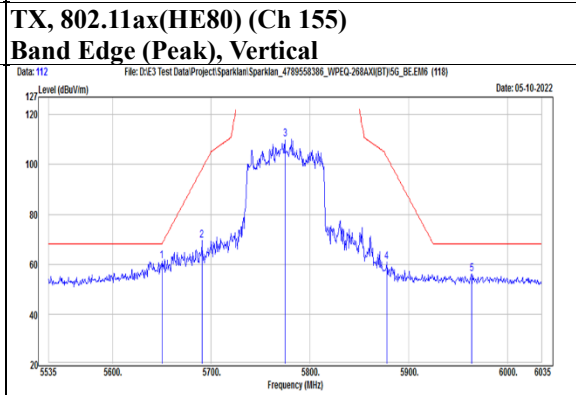
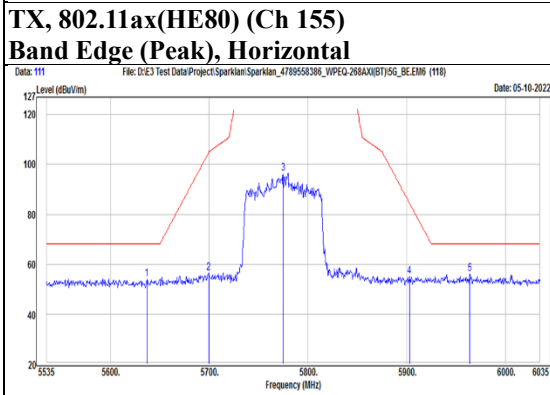
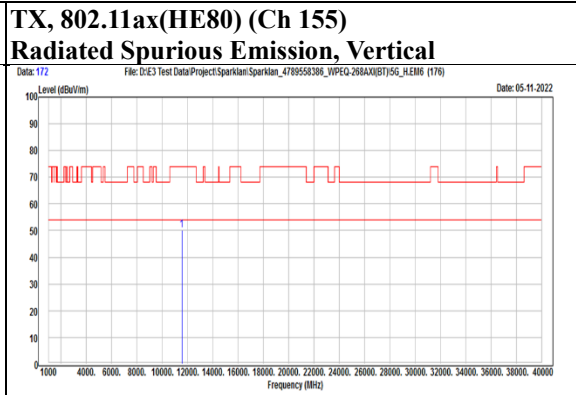
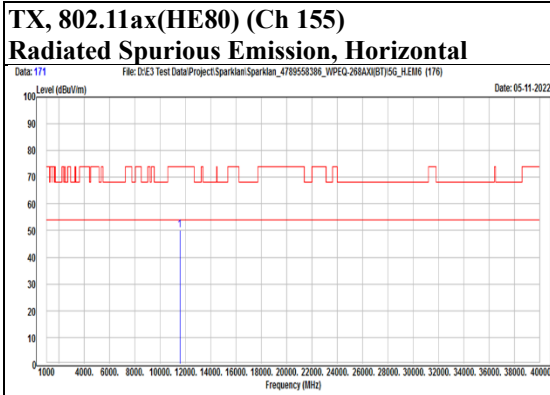
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Mode	802.11ax(HE160)	Channel	50
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5044.16	42.61	13.03	55.64	74	-18.36	PK
		5107.18	30.83	13.44	44.27	54	-9.73	AVG
	@	5250	73.94	12.91	86.85	N/A	N/A	PK
	@	5250	65.74	12.91	78.65	N/A	N/A	AVG
		5454.48	39.85	13.54	53.39	74	-20.61	PK
		5457.7	28.23	13.55	41.78	54	-12.22	AVG
	*	10500	30.77	17.98	48.75	68.2	-19.45	PK
Vertical		5127.42	46.48	13.42	59.9	74	-14.1	PK
		5130.18	36.75	13.41	50.16	54	-3.84	AVG
	@	5250	85.99	12.91	98.9	N/A	N/A	PK
	@	5250	76.94	12.91	89.85	N/A	N/A	AVG
		5379.96	45.83	13.16	58.99	74	-15.01	PK
		5381.34	34.22	13.17	47.39	54	-6.61	AVG
	*	10500	29.91	17.98	47.89	68.2	-20.31	PK

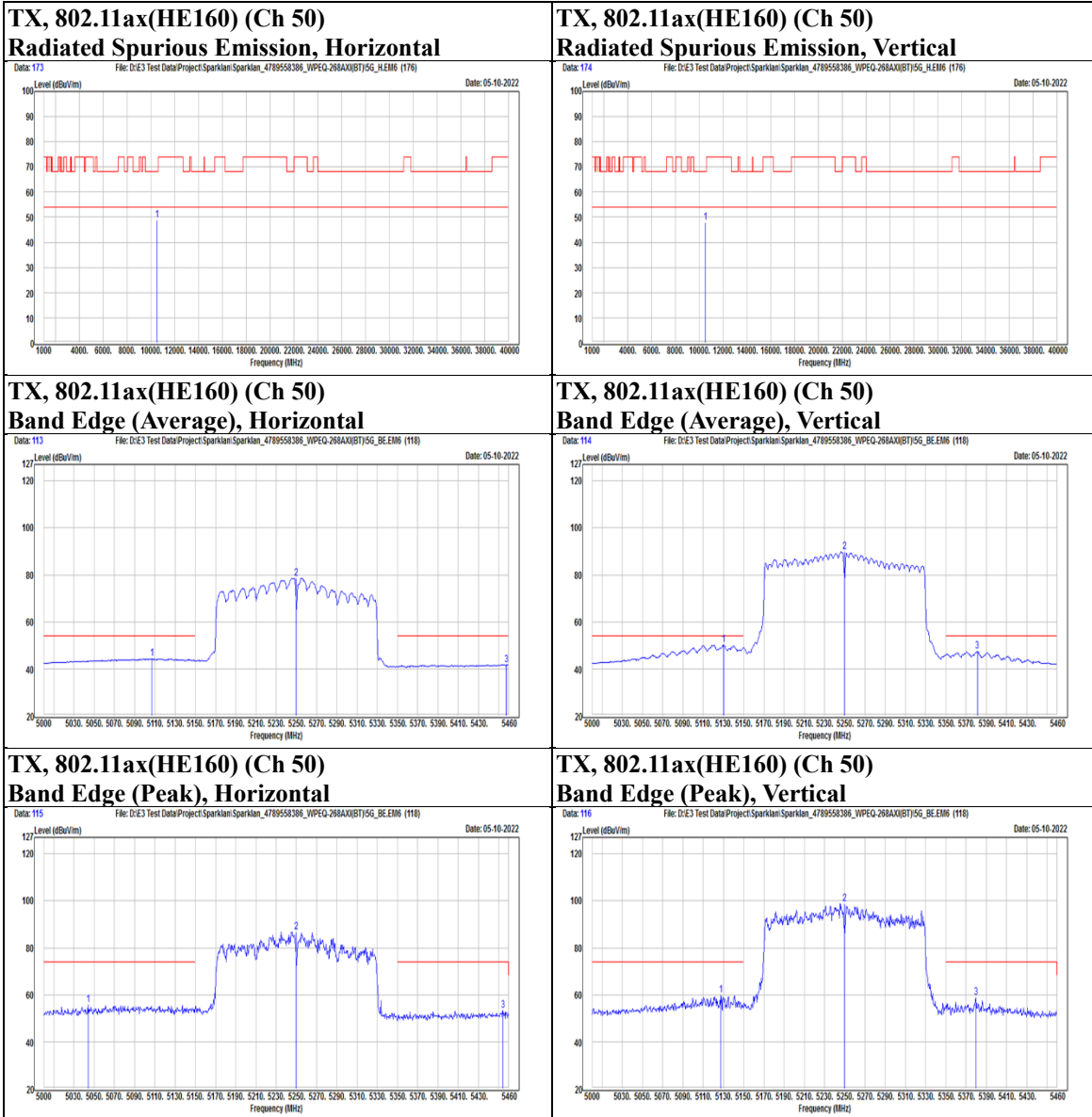
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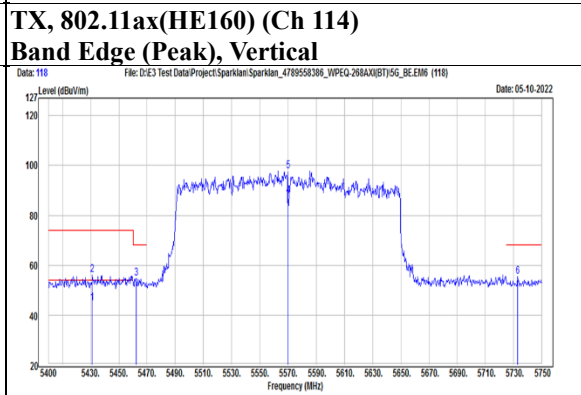
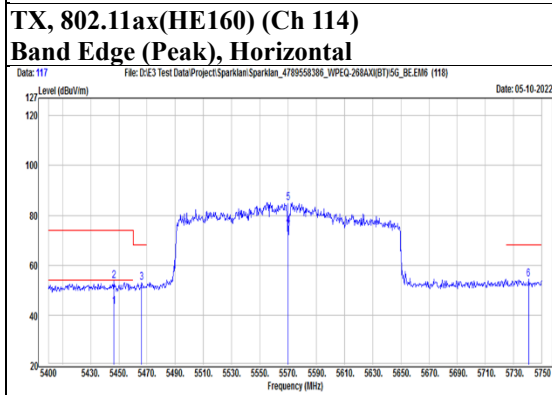
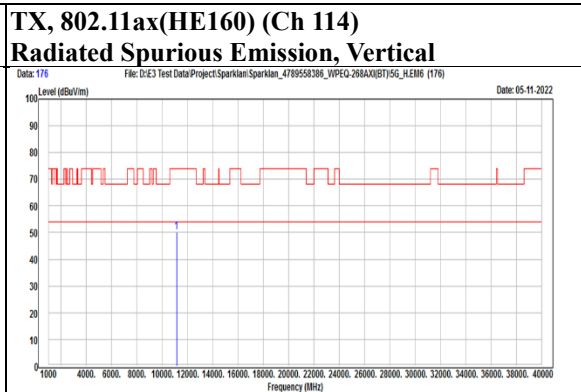
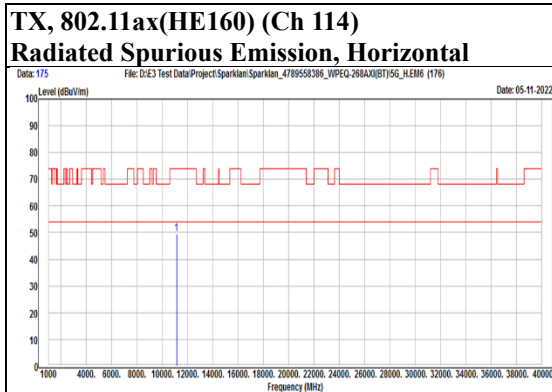
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Mode	802.11ax(HE160)	Channel	114
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5446.55	40.23	13.5	53.73	74	-20.27	PK
		5446.55	30	13.5	43.5	54	-10.5	AVG
		5466.15	39.35	13.6	52.95	68.2	-15.25	PK
	@	5570	71.29	13.78	85.07	N/A	N/A	PK
	@	5570	61.9	13.78	75.68	N/A	N/A	AVG
		5740.55	40.43	14.1	54.53	68.2	-13.67	PK
Vertical	*	11140	31.03	18.46	49.49	74	-24.51	PK
		5431.15	42.58	13.42	56	74	-18	PK
		5431.15	31.5	13.42	44.92	54	-9.08	AVG
		5462.3	41.01	13.58	54.59	68.2	-13.61	PK
	@	5570	84.08	13.78	97.86	N/A	N/A	PK
	@	5570	74.1	13.78	87.88	N/A	N/A	AVG
	5732.85	41.31	14.03	55.34	68.2	-12.86	PK	
	11140	31.64	18.46	50.1	74	-23.9	PK	



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

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

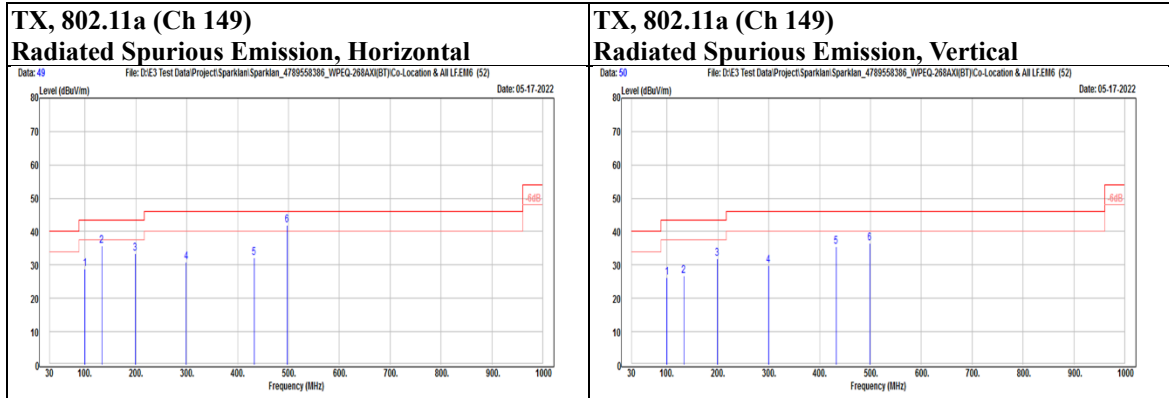
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**Below 1 GHz**

<b>Mode</b>	802.11a	<b>Channel</b>	149
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBUV)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	
Horizontal		99.84	45.16	-16.47	28.69	43.5	-14.81	PK
		132.82	48.77	-12.95	35.82	43.5	-7.68	PK
		198.78	47.4	-13.93	33.47	43.5	-10.03	QP
		298.69	40.79	-10.04	30.75	46	-15.25	PK
		432.55	38.4	-6.24	32.16	46	-13.84	PK
		497.54	46.68	-4.86	41.82	46	-4.18	PK
Vertical		99.84	42.75	-16.47	26.28	43.5	-17.22	PK
		132.82	39.8	-12.95	26.85	43.5	-16.65	PK
		198.78	45.79	-13.93	31.86	43.5	-11.64	PK
		299.66	39.91	-9.99	29.92	46	-16.08	PK
		432.55	41.78	-6.24	35.54	46	-10.46	PK
		498.51	41.5	-4.86	36.64	46	-9.36	QP



**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



### 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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## 9.8. AC Power Line Conducted Emission

### Requirements

Frequency (MHz)	Conducted limit (dB $\mu$ 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:

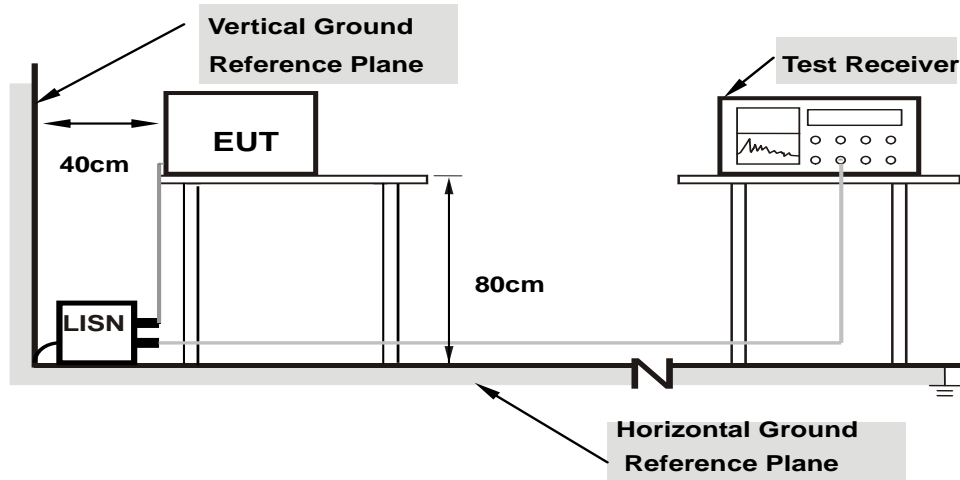
1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels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



## Test Setup



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

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

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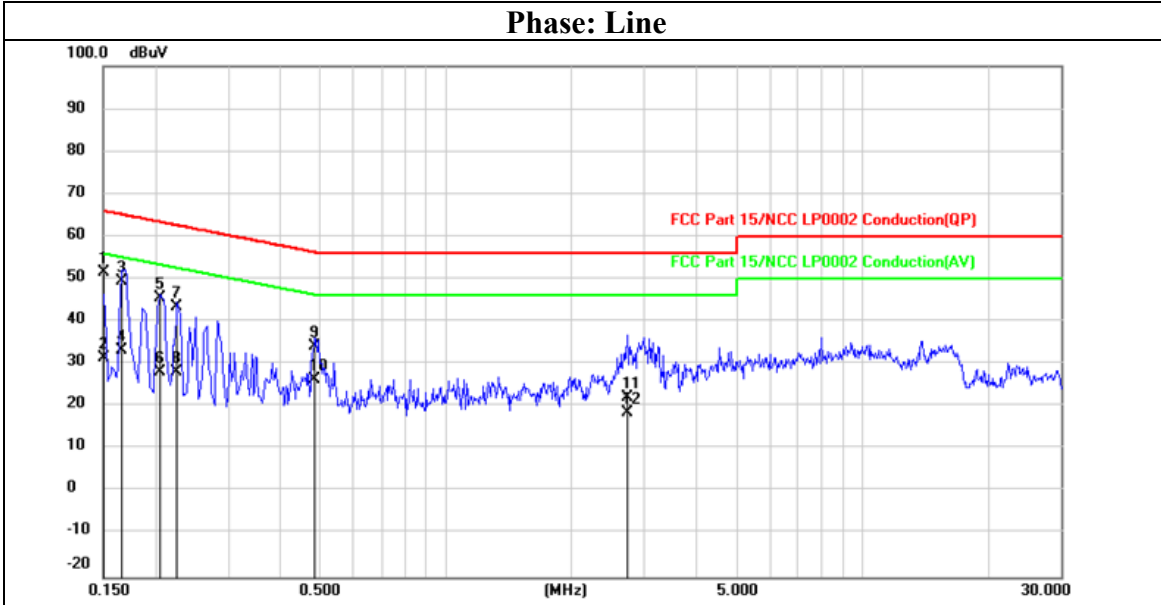
Facsimile (FAX ) :+886-3-583-7948

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**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	0.1500	32.07	19.51	51.58	66.00	-14.42	QP
2	0.1500	11.88	19.51	31.39	56.00	-24.61	AVG
3	0.1660	29.87	19.51	49.38	65.16	-15.78	QP
4	0.1660	13.81	19.51	33.32	55.16	-21.84	AVG
5	0.2060	25.93	19.51	45.44	63.37	-17.93	QP
6	0.2060	8.60	19.51	28.11	53.37	-25.26	AVG
7	0.2260	23.80	19.51	43.31	62.60	-19.29	QP
8	0.2260	8.72	19.51	28.23	52.60	-24.37	AVG
9	0.4860	14.56	19.51	34.07	56.24	-22.17	QP
10	0.4860	6.84	19.51	26.35	46.24	-19.89	AVG
11	2.7340	2.66	19.56	22.22	56.00	-33.78	QP
12	2.7340	-1.07	19.56	18.49	46.00	-27.51	AVG

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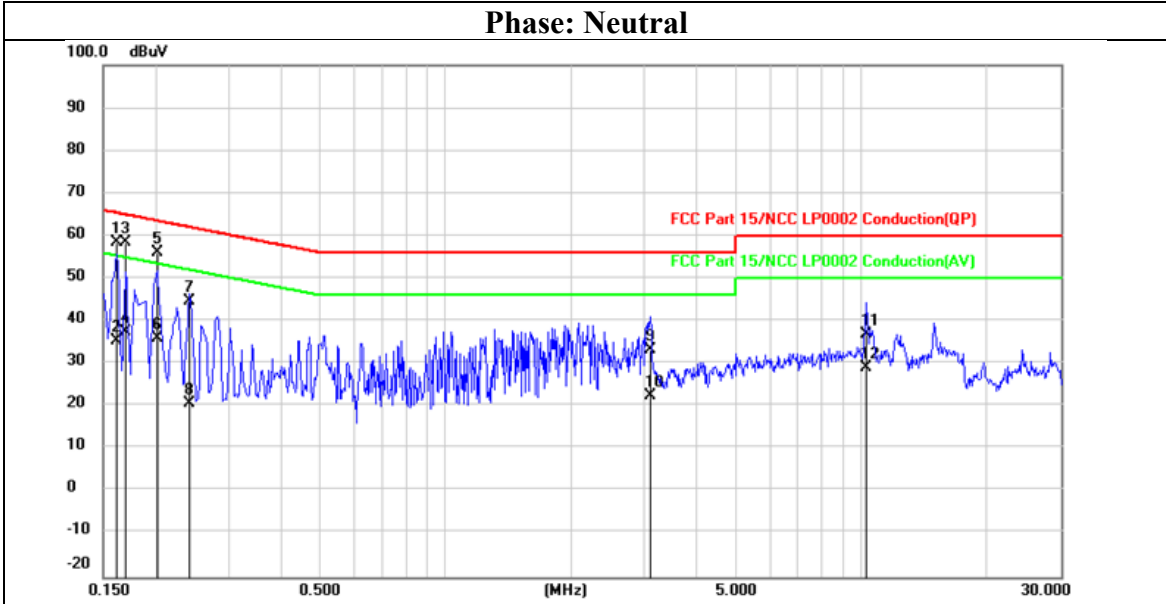
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Mode	802.11a TX5745	Channel	149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1620	38.85	19.51	58.36	65.36	-7.00	QP
2	0.1620	15.80	19.51	35.31	55.36	-20.05	AVG
3	0.1700	38.98	19.51	58.49	64.96	-6.47	QP
4	0.1700	17.83	19.51	37.34	54.96	-17.62	AVG
5	0.2020	36.66	19.51	56.17	63.53	-7.36	QP
6	0.2020	16.53	19.51	36.04	53.53	-17.49	AVG
7	0.2420	25.09	19.51	44.60	62.03	-17.43	QP
8	0.2420	1.15	19.51	20.66	52.03	-31.37	AVG
9	3.1020	13.61	19.56	33.17	56.00	-22.83	QP
10	3.1020	2.85	19.56	22.41	46.00	-23.59	AVG
11	10.2739	17.15	19.73	36.88	60.00	-23.12	QP
12	10.2739	9.28	19.73	29.01	50.00	-20.99	AVG

**END OF REPORT**

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