

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: 17-EM-F0878 / 6.0



Test report No. : 4790224862-US-R1-V0
Page : 297 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT40)	Channel	102
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5447.95	29.09	19.5	48.59	54	-5.41	AVG
		5457.4	39.46	19.55	59.01	74	-14.99	PK
		5469.3	39.11	19.62	58.73	68.2	-9.47	PK
	@	5510	78.11	19.78	97.89	N/A	N/A	PK
	@	5510	71.34	19.78	91.12	N/A	N/A	AVG
	*	11020	30.39	18.42	48.81	74	-25.19	PK
Vertical		5439.9	31.85	19.47	51.32	54	-2.68	AVG
		5443.75	41.18	19.5	60.68	74	-13.32	PK
		5469.65	44.52	19.62	64.14	68.2	-4.06	PK
	@	5510	89.85	19.78	109.63	N/A	N/A	PK
	@	5510	81.45	19.78	101.23	N/A	N/A	AVG
	*	11020	30.62	18.42	49.04	74	-24.96	PK

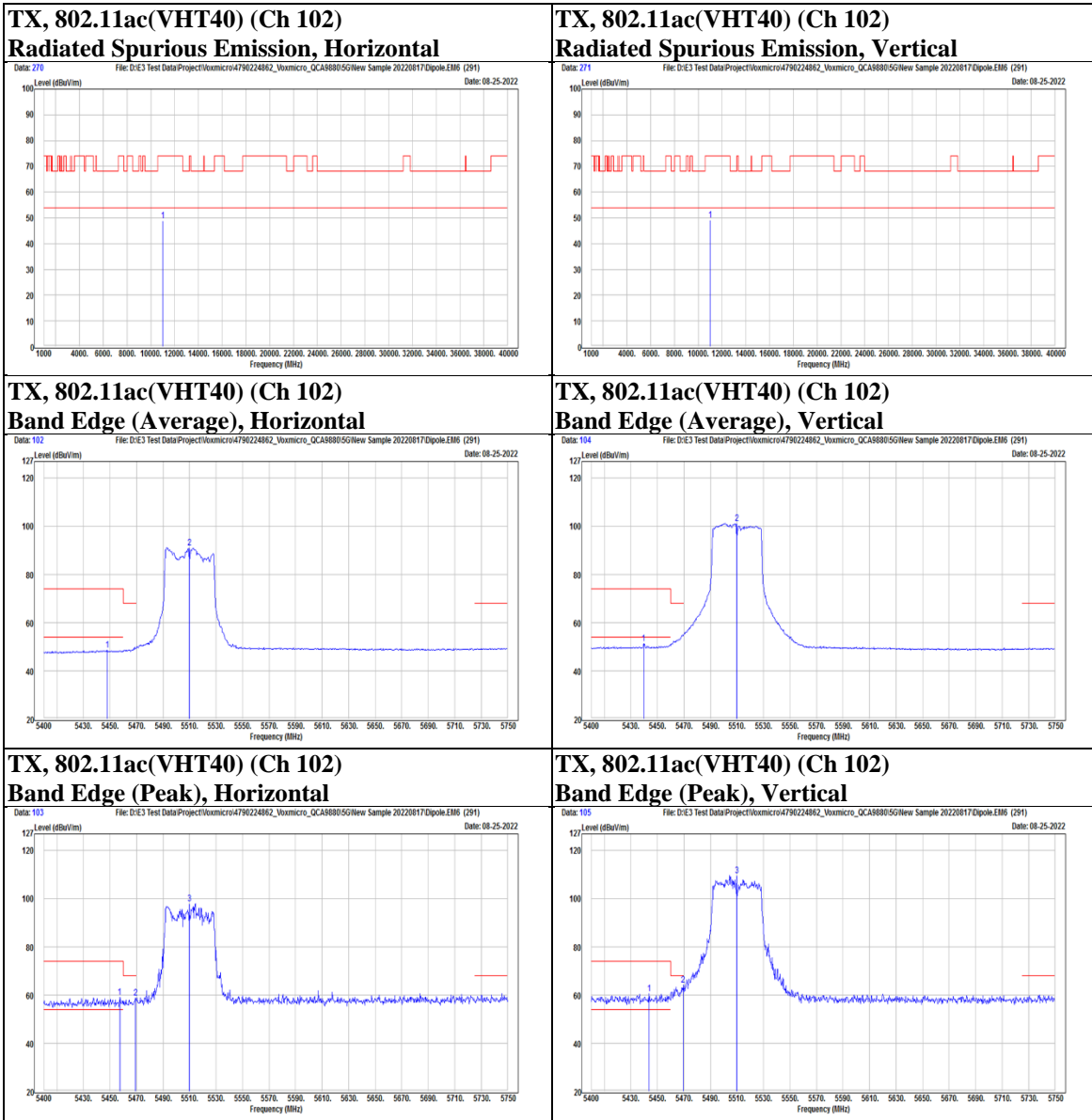
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Doc No: 17-EM-F0878 / 6.0





Mode	802.11ac(VHT40)	Channel	110
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5439.9	29.08	19.47	48.55	54	-5.45	AVG
		5449.7	39.33	19.51	58.84	74	-15.16	PK
		5464.05	40.27	19.59	59.86	68.2	-8.34	PK
	@	5550	82.59	19.83	102.42	N/A	N/A	PK
	@	5550	73.13	19.83	92.96	N/A	N/A	AVG
		5738.1	40.42	20.08	60.5	68.2	-7.7	PK
	*	11100	30.38	18.45	48.83	74	-25.17	PK
Vertical		5425.9	41.85	19.39	61.24	74	-12.76	PK
		5440.25	32.01	19.47	51.48	54	-2.52	AVG
		5468.25	40.93	19.61	60.54	68.2	-7.66	PK
	@	5550	90.6	19.83	110.43	N/A	N/A	PK
	@	5550	82.17	19.83	102	N/A	N/A	AVG
		5736.7	40.3	20.07	60.37	68.2	-7.83	PK
	*	11100	30	18.45	48.45	74	-25.55	PK

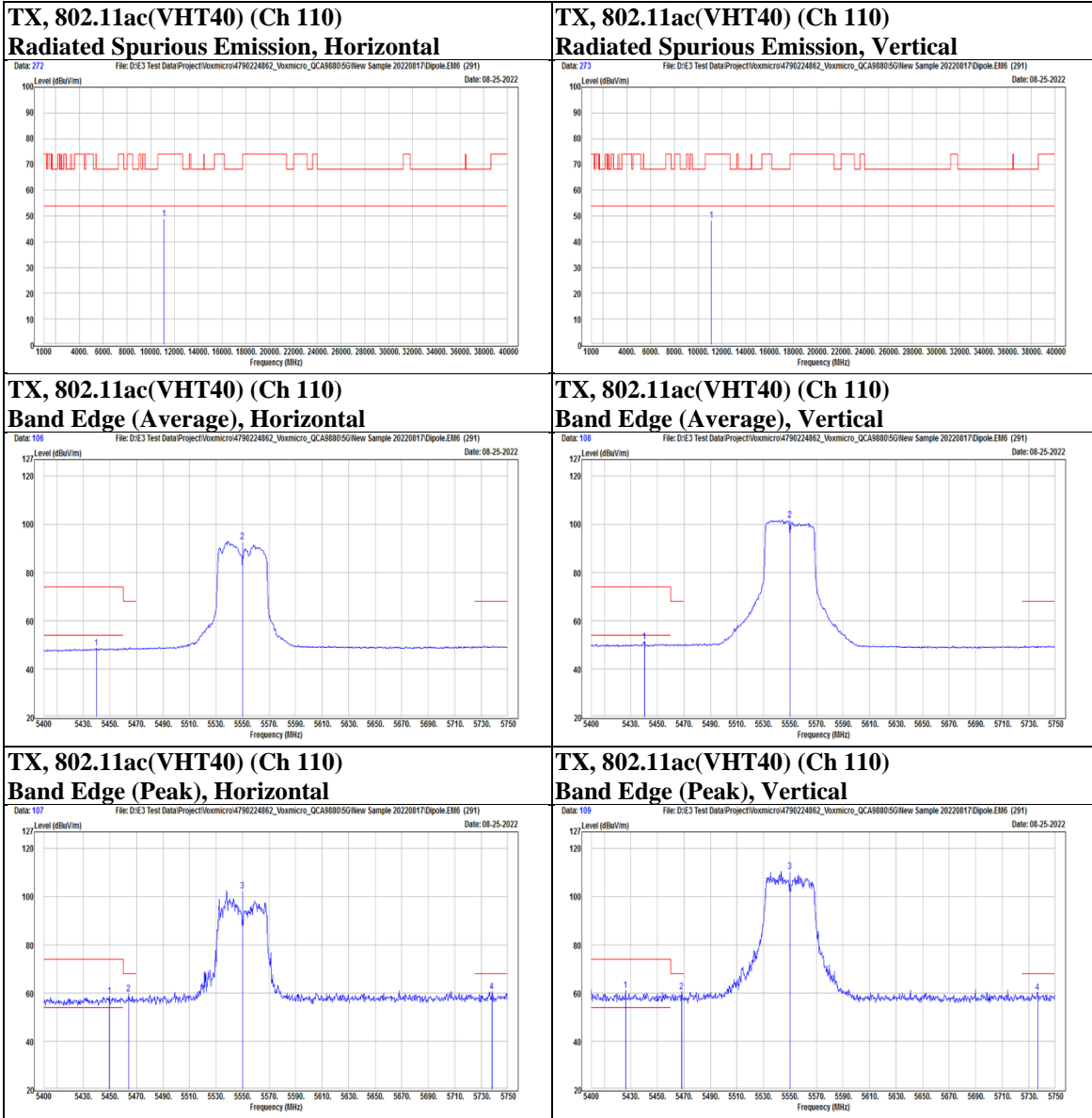
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Test report No. : 4790224862-US-R1-V0
Page : 301 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT40)	Channel	134
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5458.45	28.98	19.56	48.54	54	-5.46	AVG
	@	5670	73.39	19.69	93.08	N/A	N/A	PK
	@	5670	65.87	19.69	85.56	N/A	N/A	AVG
		5743	40.4	20.13	60.53	68.2	-7.67	PK
	*	11340	29.28	18.58	47.86	74	-26.14	PK
Vertical		5439.9	32.27	19.47	51.74	54	-2.26	AVG
	@	5670	83.58	19.69	103.27	N/A	N/A	PK
	@	5670	75.08	19.69	94.77	N/A	N/A	AVG
		5740.2	40.18	20.1	60.28	68.2	-7.92	PK
	*	11340	30.3	18.58	48.88	74	-25.12	PK

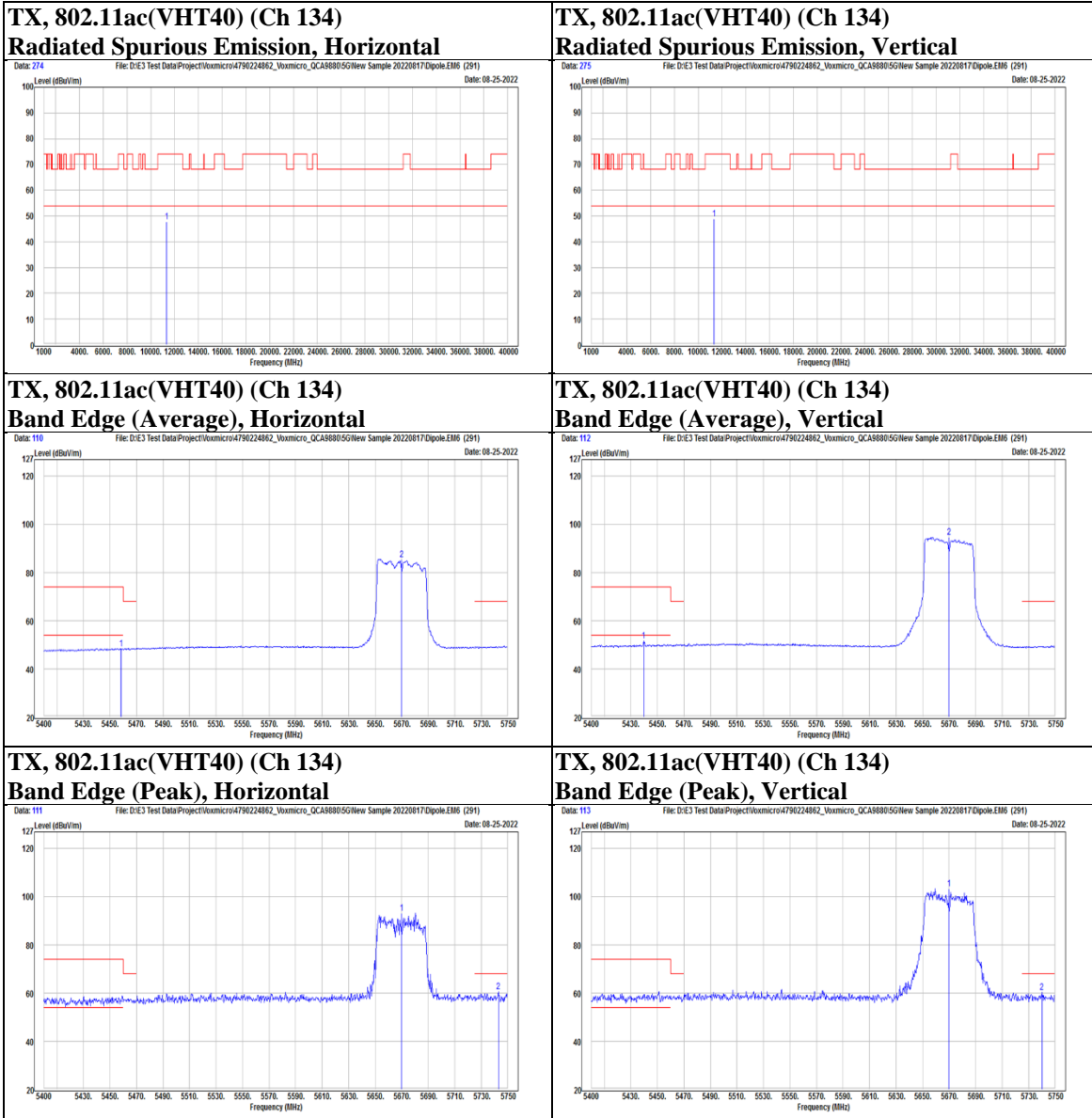
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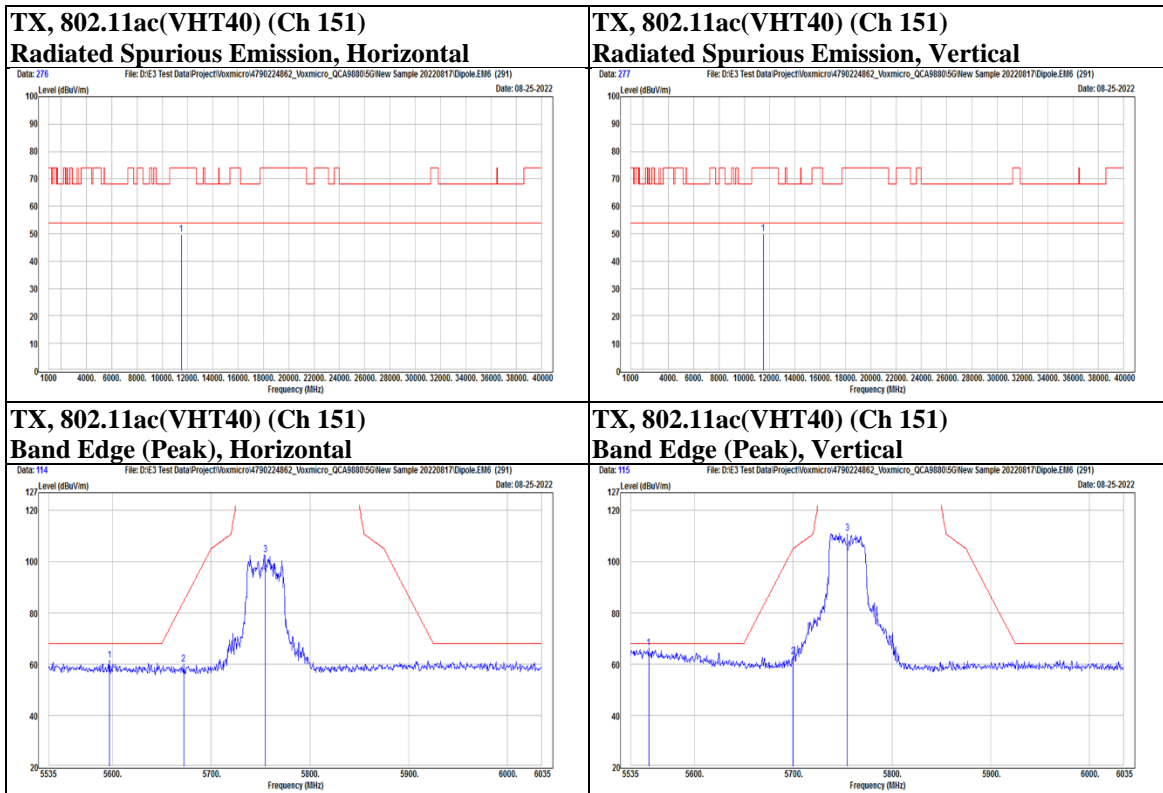
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Mode	802.11ac(VHT40)	Channel	151
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5597	41.8	19.71	61.51	68.2	-6.69	PK
		5672	40.42	19.7	60.12	84.52	-24.4	PK
	@	5755	82.44	20.22	102.66	N/A	N/A	PK
	*	11510	30.33	19.34	49.67	74	-24.33	PK
Vertical		5553.5	46.4	19.83	66.23	68.2	-1.97	PK
		5700	43.27	19.73	63	105.2	-42.2	PK
	@	5755	91.05	20.22	111.27	N/A	N/A	PK
	*	11510	30.53	19.34	49.87	74	-24.13	PK



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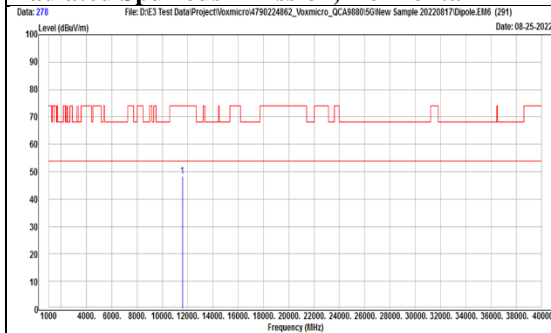


Mode	802.11ac(VHT40)	Channel	159
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5555.5	41.71	19.82	61.53	68.2	-6.67	PK
		5681	40.84	19.7	60.54	91.18	-30.64	PK
		5795	78.76	20.52	99.28	N/A	N/A	PK
		5922	40.12	20.96	61.08	70.41	-9.33	PK
		5939.5	40.14	20.95	61.09	68.2	-7.11	PK
		11590	29.28	18.99	48.27	74	-25.73	PK
Vertical	@	5545	47.65	19.83	67.48	68.2	-0.72	PK
		5652.5	41.92	19.67	61.59	70.06	-8.47	PK
		5795	86.91	20.52	107.43	N/A	N/A	PK
		5919	39.51	20.96	60.47	72.62	-12.15	PK
		5936.5	40.74	20.95	61.69	68.2	-6.51	PK
		11590	30.03	18.99	49.02	74	-24.98	PK

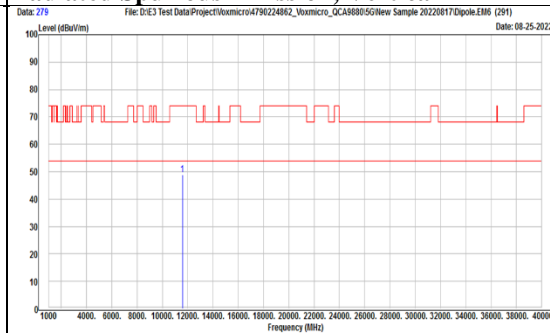
TX, 802.11ac(VHT40) (Ch 159)

Radiated Spurious Emission, Horizontal



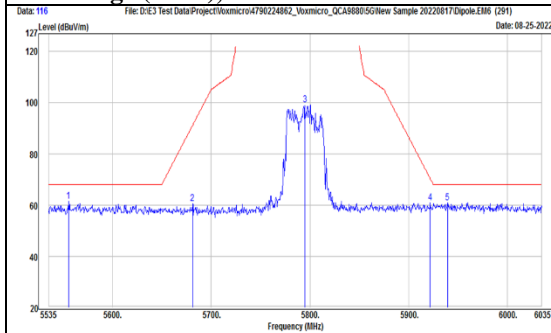
TX, 802.11ac(VHT40) (Ch 159)

Radiated Spurious Emission, Vertical



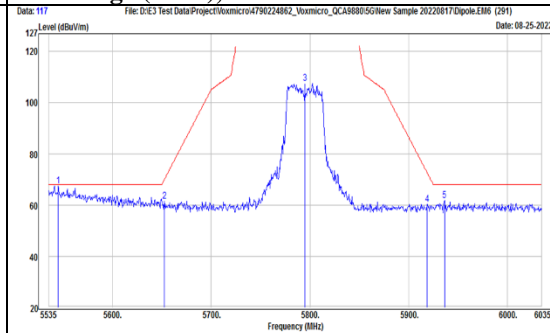
TX, 802.11ac(VHT40) (Ch 159)

Band Edge (Peak), Horizontal



TX, 802.11ac(VHT40) (Ch 159)

Band Edge (Peak), Vertical



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Test report No. : 4790224862-US-R1-V0
Page : 305 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT80)	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		5097.65	31.17	19.43	50.6	54	-3.4	AVG
		5143.5	42.07	19.4	61.47	74	-12.53	PK
	@	5210	70.39	19.18	89.57	N/A	N/A	PK
	@	5210	62.79	19.18	81.97	N/A	N/A	AVG
		6946.7	41.28	8.56	49.84	68.2	-18.36	PK
	*	10420	29.94	17.76	47.7	68.2	-20.5	PK
Vertical		5074.2	42.63	19.27	61.9	74	-12.1	PK
		5149.1	32.31	19.4	51.71	54	-2.29	AVG
	@	5210	80.09	19.18	99.27	N/A	N/A	PK
	@	5210	71.44	19.18	90.62	N/A	N/A	AVG
		6946.7	45.84	8.56	54.4	68.2	-13.8	PK
	*	10420	31.25	17.76	49.01	68.2	-19.19	PK

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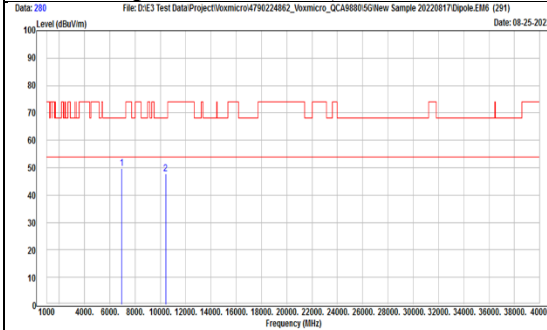
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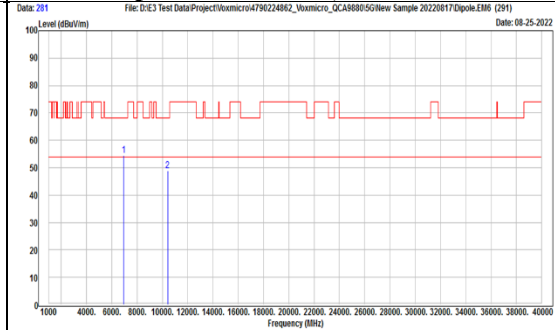
Doc No: 17-EM-F0878 / 6.0



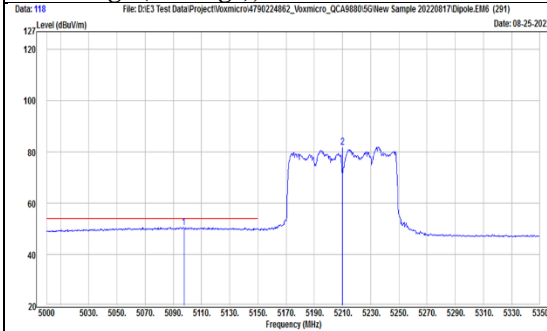
TX, 802.11ac(VHT80) (Ch 42)
Radiated Spurious Emission, Horizontal



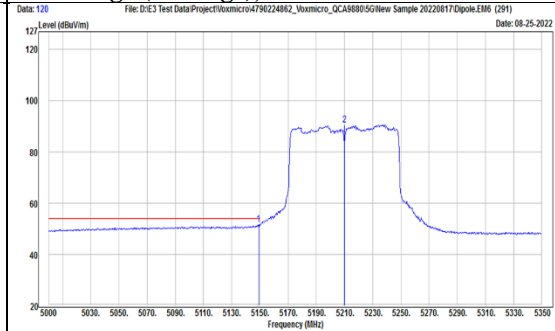
TX, 802.11ac(VHT80) (Ch 42)
Radiated Spurious Emission, Vertical



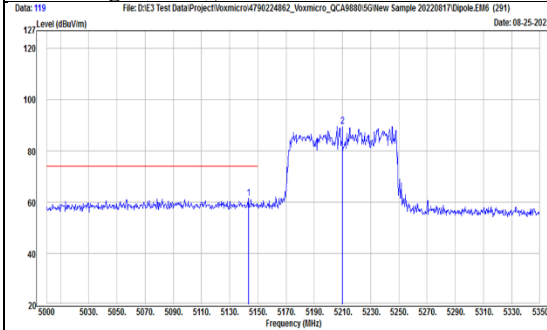
TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Average), Horizontal



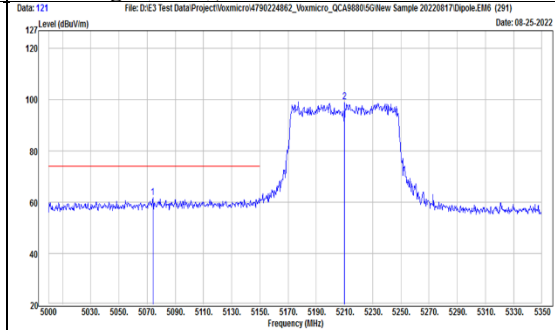
TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Average), Vertical



TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Peak), Horizontal



TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Peak), Vertical





Test report No. : 4790224862-US-R1-V0
Page : 307 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT80)	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	71.07	18.79	89.86	N/A	N/A	PK
	@	5290	64.34	18.79	83.13	N/A	N/A	AVG
		5455.2	39.54	19.54	59.08	74	-14.92	PK
		5458.5	29.32	19.56	48.88	54	-5.12	AVG
		7053.3	35.39	9.23	44.62	68.2	-23.58	PK
	*	10580	29.91	18.04	47.95	68.2	-20.25	PK
Vertical	@	5290	82.48	18.79	101.27	N/A	N/A	PK
	@	5290	73.15	18.79	91.94	N/A	N/A	AVG
		5350.2	33.01	19.01	52.02	54	-1.98	AVG
		5351.1	41.99	19.01	61	74	-13	PK
		7053.3	40.98	9.23	50.21	68.2	-17.99	PK
	*	10580	30.57	18.04	48.61	68.2	-19.59	PK

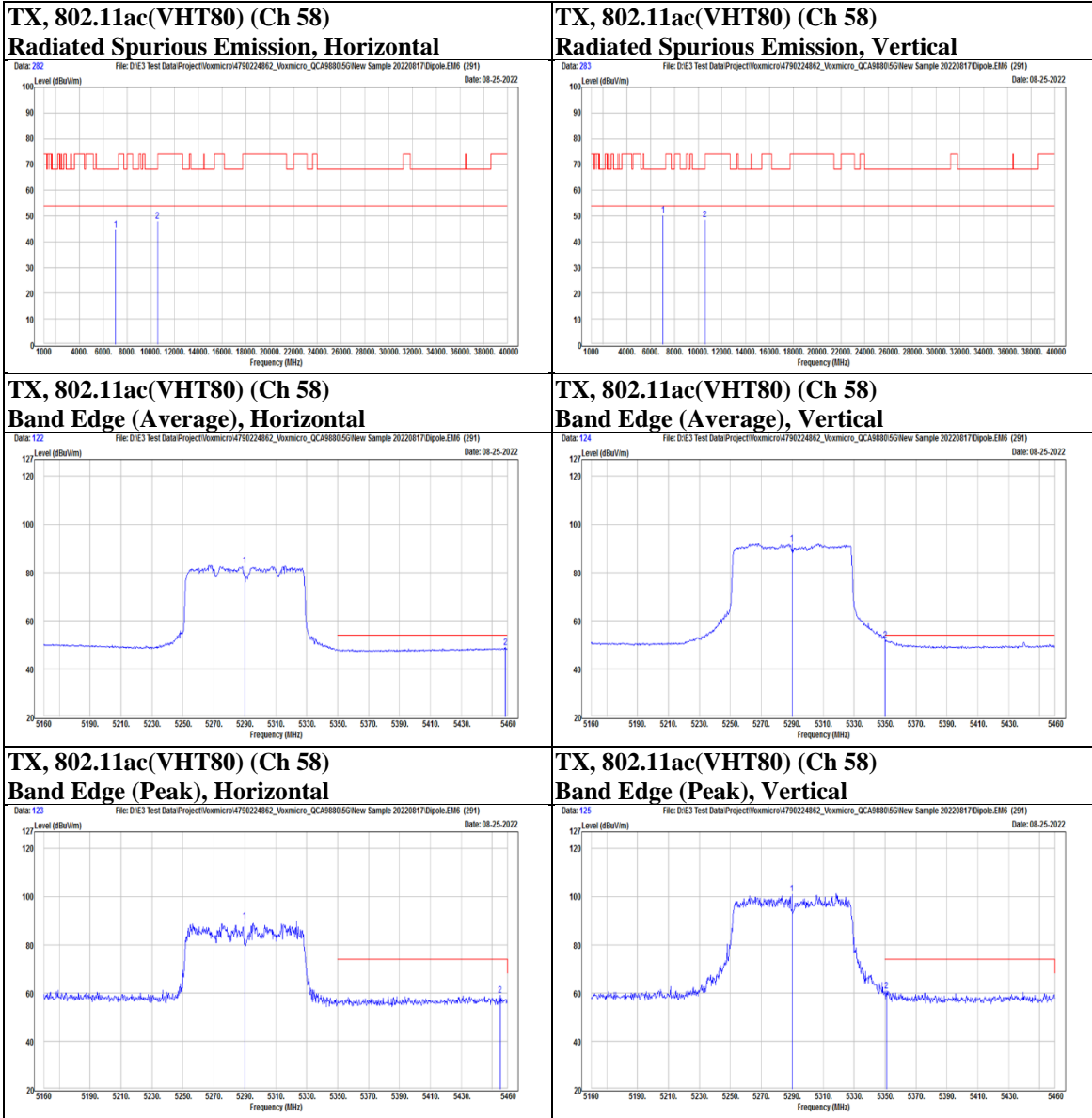
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Test report No. : 4790224862-US-R1-V0
Page : 309 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT80)	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		5403.85	39.67	19.29	58.96	74	-15.04	PK
		5443.75	29.39	19.5	48.89	54	-5.11	AVG
		5468.25	39.28	19.61	58.89	68.2	-9.31	PK
	@	5530	72.63	19.81	92.44	N/A	N/A	PK
	@	5530	66.28	19.81	86.09	N/A	N/A	AVG
	*	11060	31.29	18.44	49.73	74	-24.27	PK
Vertical		5457.4	32.41	19.55	51.96	54	-2.04	AVG
		5459.85	41.68	19.57	61.25	74	-12.75	PK
		5468.6	45.51	19.61	65.12	68.2	-3.08	PK
	@	5530	84.28	19.81	104.09	N/A	N/A	PK
	@	5530	74.35	19.81	94.16	N/A	N/A	AVG
	*	11060	30.13	18.44	48.57	74	-25.43	PK

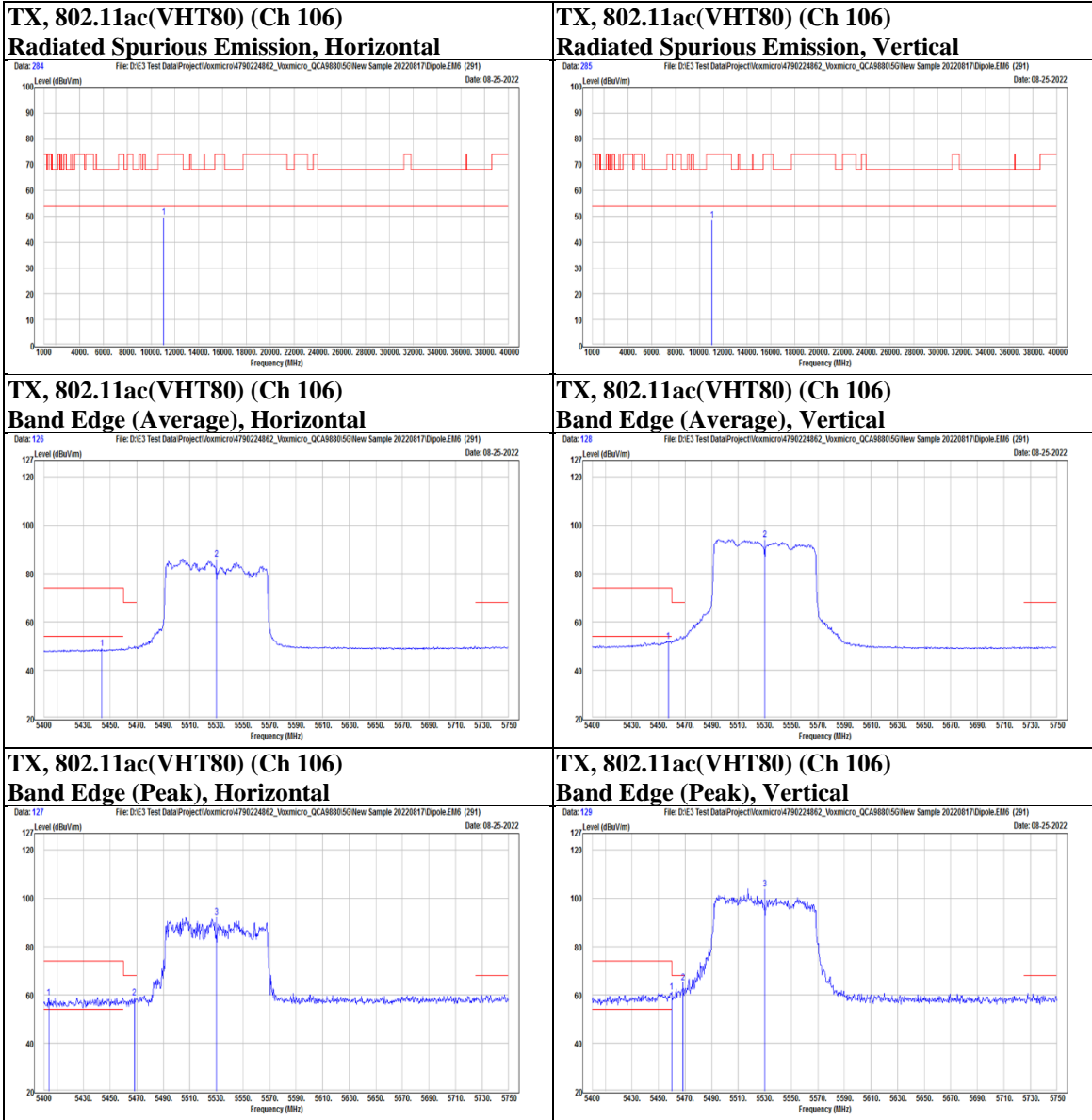
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Test report No. : 4790224862-US-R1-V0
Page : 311 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11ac(VHT80)	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		5445.15	39.45	19.5	58.95	74	-15.05	PK
		5458.8	29.09	19.57	48.66	54	-5.34	AVG
		5467.55	39.12	19.61	58.73	68.2	-9.47	PK
	@	5610	73.71	19.69	93.4	N/A	N/A	PK
	@	5610	65.87	19.69	85.56	N/A	N/A	AVG
		5734.25	40.57	20.05	60.62	68.2	-7.58	PK
	*	11220	30.55	18.47	49.02	74	-24.98	PK
Vertical		5434.65	42.06	19.44	61.5	74	-12.5	PK
		5439.9	32.3	19.47	51.77	54	-2.23	AVG
		5470	40.3	19.62	59.92	68.2	-8.28	PK
	@	5610	81.91	19.69	101.6	N/A	N/A	PK
	@	5610	74.38	19.69	94.07	N/A	N/A	AVG
		5736.7	40.7	20.07	60.77	68.2	-7.43	PK
	*	11220	30.22	18.47	48.69	74	-25.31	PK

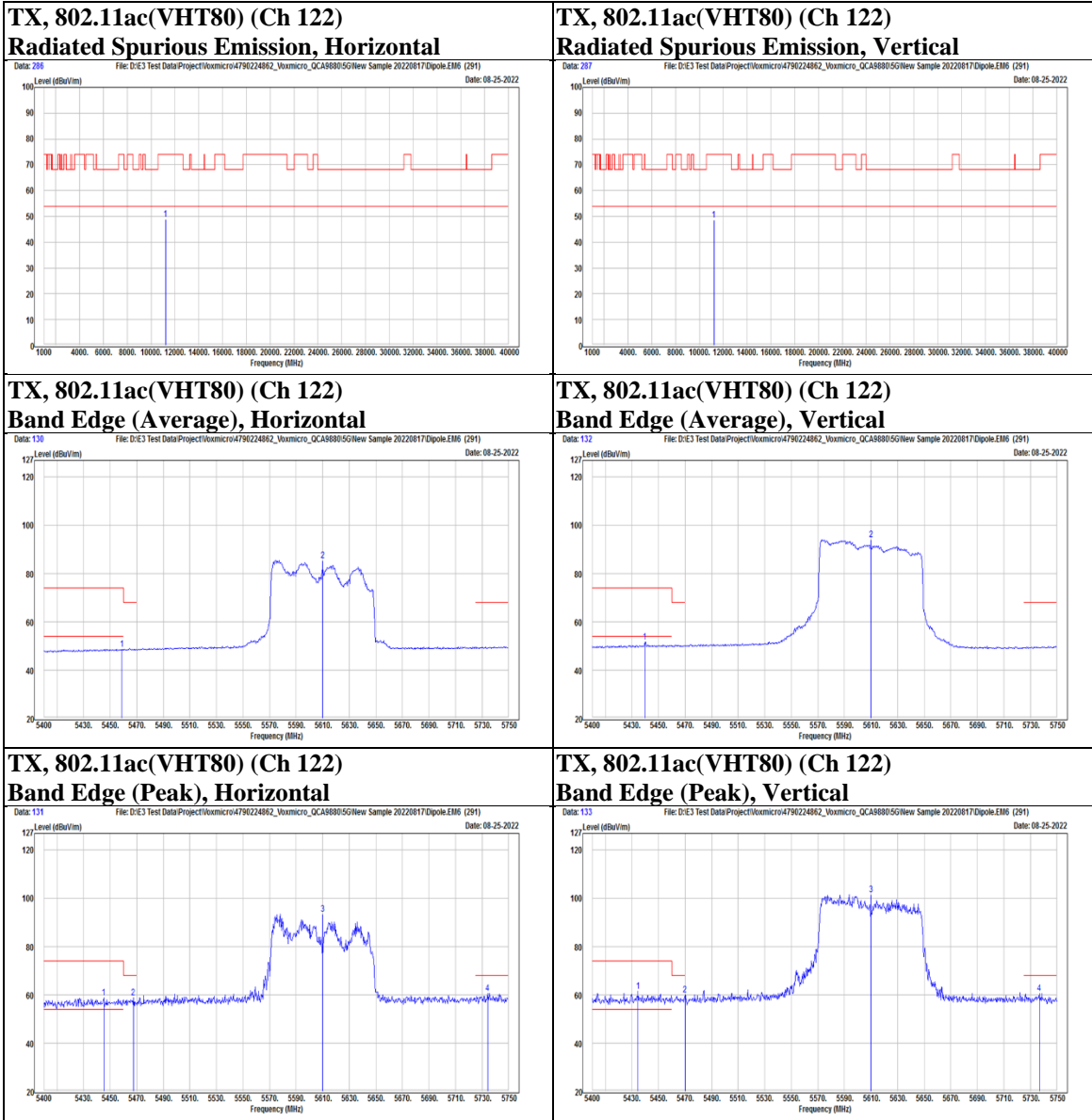
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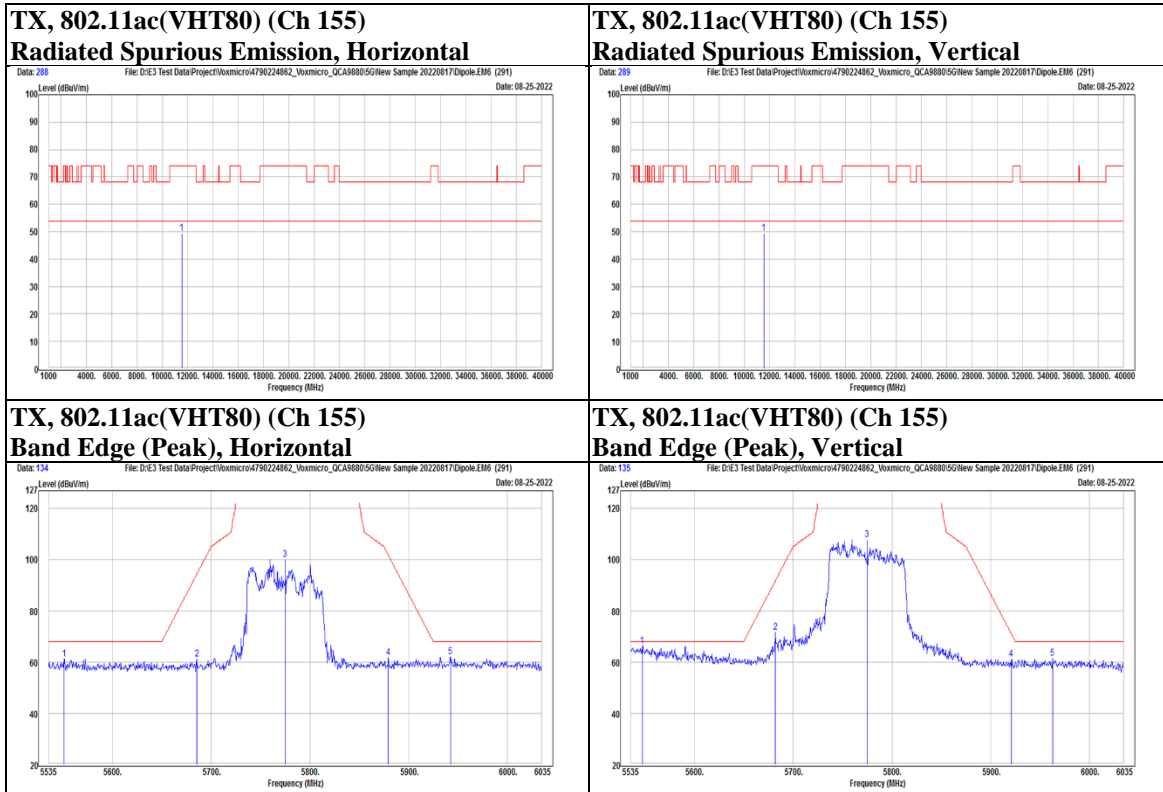
Doc No: 17-EM-F0878 / 6.0





Mode	802.11ac(VHT80)	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	@	5551	41.53	19.83	61.36	68.2	-6.84	PK
		5685.5	41.43	19.71	61.14	94.5	-33.36	PK
		5775	79.64	20.37	100.01	N/A	N/A	PK
		5879.5	41.1	20.84	61.94	101.86	-39.92	PK
		5942.5	41.19	20.95	62.14	68.2	-6.06	PK
		11550	30.26	19.16	49.42	74	-24.58	PK
Vertical	@	5547	46.45	19.83	66.28	68.2	-1.92	PK
		5682	51.9	19.7	71.6	91.92	-20.32	PK
		5775	87.36	20.37	107.73	N/A	N/A	PK
		5921	40.39	20.96	61.35	71.15	-9.8	PK
		5963	40.51	20.96	61.47	68.2	-6.73	PK
		11550	30.27	19.16	49.43	74	-24.57	PK



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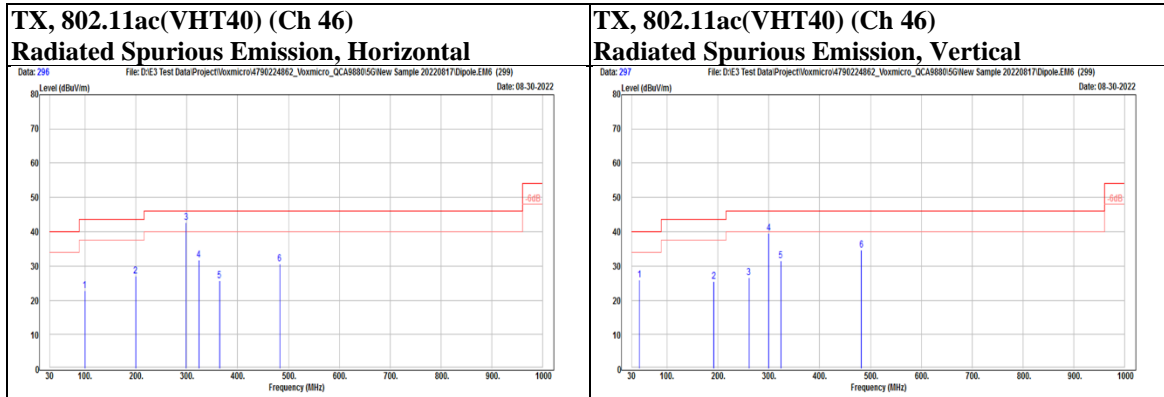
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Below 1 GHz

Mode	802.11ac(VHT40)	Channel	46
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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	39.24	-16.37	22.87	43.5	-20.63	PK
		199.75	41.24	-14.23	27.01	43.5	-16.49	PK
		298.69	53.55	-10.84	42.71	46	-3.29	PK
		323.91	41.85	-10.07	31.78	46	-14.22	PK
		364.65	34.96	-9.28	25.68	46	-20.32	PK
		482.99	36.52	-5.81	30.71	46	-15.29	PK
Vertical		45.52	37.89	-12	25.89	40	-14.11	PK
		191.99	39.48	-14	25.48	43.5	-18.02	PK
		260.86	38.78	-12.08	26.7	46	-19.3	PK
		299.66	50.31	-10.81	39.5	46	-6.5	PK
		323.91	41.63	-10.07	31.56	46	-14.44	PK
		482.02	40.55	-5.83	34.72	46	-11.28	PK



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PCB Antenna

Above 1 GHz

Mode	802.11a	Channel	36
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5086.8	30.57	19.35	49.92	54	-4.08	AVG
		5118.3	30.19	19.43	49.62	54	-4.38	AVG
	@	5180	72.05	19.31	91.36	N/A	N/A	AVG
	@	5180	72.26	19.31	91.57	N/A	N/A	AVG
		6906.7	45.76	8.36	54.12	68.2	-14.08	PK
	*	10360	31.27	17.51	48.78	68.2	-19.42	PK
Vertical		5124.25	42.27	19.43	61.7	74	-12.3	PK
		5149.8	31.8	19.4	51.2	54	-2.8	AVG
	@	5180	93.49	19.31	112.8	N/A	N/A	PK
	@	5180	86.27	19.31	105.58	N/A	N/A	AVG
		6906.7	59.15	8.36	67.51	68.2	-0.69	PK
	*	10360	32.41	17.51	49.92	68.2	-18.28	PK

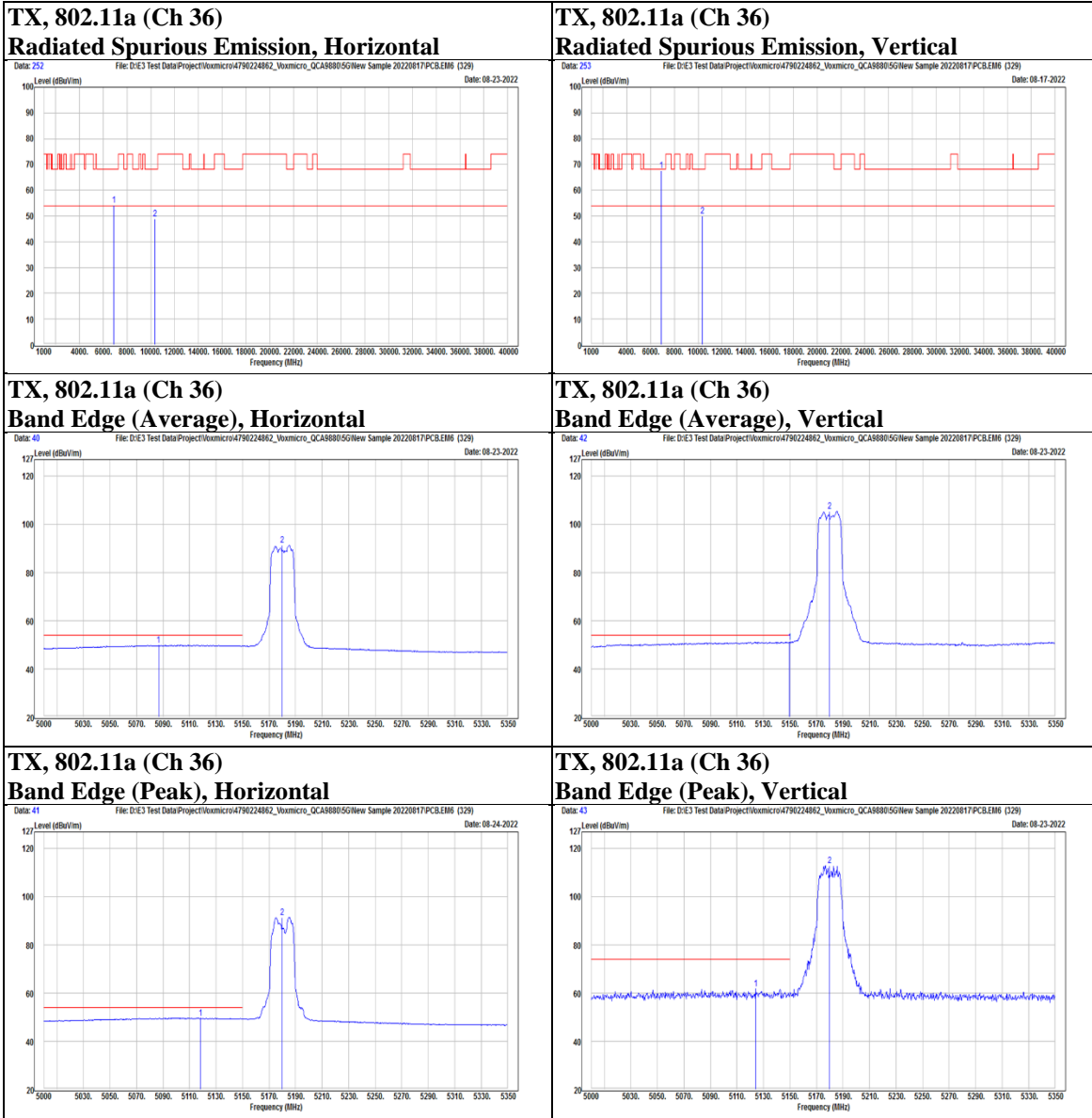
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Facsimile (FAX) : +886-3-583-7948

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Test report No. : 4790224862-US-R1-V0
Page : 317 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	44
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5065.1	42.23	19.19	61.42	74	-12.58	PK
		5087.85	30.27	19.36	49.63	54	-4.37	AVG
	@	5220	81.92	19.12	101.04	N/A	N/A	PK
	@	5220	72.66	19.12	91.78	N/A	N/A	AVG
		6960	41.71	8.61	50.32	68.2	-17.88	PK
	*	10440	30.36	17.81	48.17	68.2	-20.03	PK
Vertical		5110.6	44.42	19.44	63.86	74	-10.14	PK
		5146.65	32	19.41	51.41	54	-2.59	AVG
	@	5220	95.83	19.12	114.95	N/A	N/A	PK
	@	5220	88.67	19.12	107.79	N/A	N/A	AVG
		6960	56.12	8.61	64.73	68.2	-3.47	PK
	*	10440	31.17	17.81	48.98	68.2	-19.22	PK

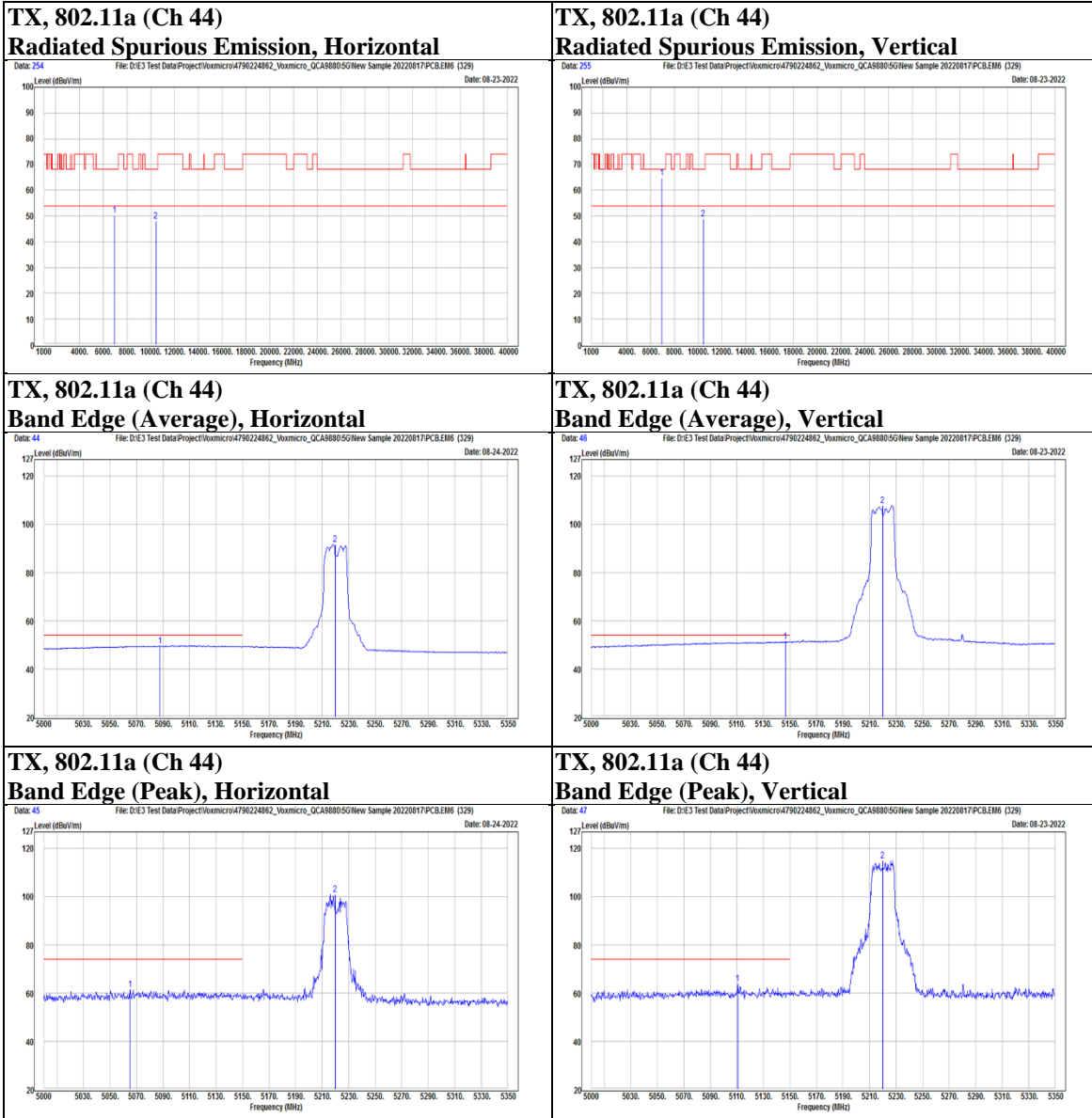
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Facsimile (FAX) :+886-3-583-7948

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

Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790224862-US-R1-V0
Page : 319 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	48
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5063	42.2	19.18	61.38	74	-12.62	PK
		5103.6	30.23	19.44	49.67	54	-4.33	AVG
	@	5240	81.16	18.97	100.13	N/A	N/A	PK
	@	5240	72.29	18.97	91.26	N/A	N/A	AVG
		6986.7	38.82	8.69	47.51	68.2	-20.69	PK
	*	10480	31.93	17.92	49.85	68.2	-18.35	PK
Vertical		5107.1	43.4	19.44	62.84	74	-11.16	PK
		5134.05	32	19.41	51.41	54	-2.59	AVG
	@	5240	97.35	18.97	116.32	N/A	N/A	PK
	@	5240	88.77	18.97	107.74	N/A	N/A	AVG
		6986.7	52.56	8.69	61.25	68.2	-6.95	PK
	*	10480	30.93	17.92	48.85	68.2	-19.35	PK

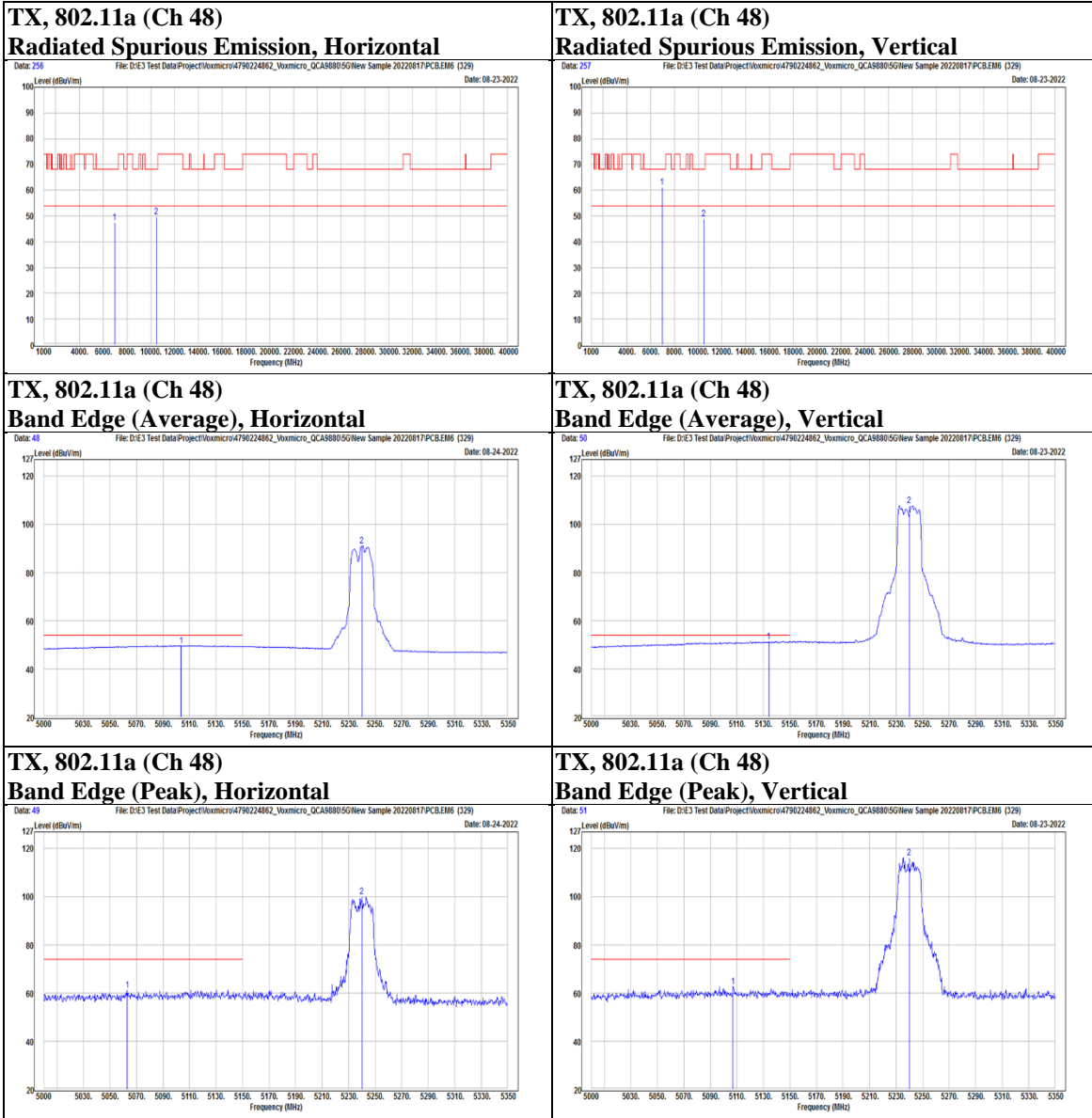
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Facsimile (FAX) : +886-3-583-7948



Test report No. : 4790224862-US-R1-V0
Page : 321 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	52
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5260	83.51	18.88	102.39	N/A	N/A	PK
	@	5260	74.3	18.88	93.18	N/A	N/A	AVG
		5448.9	28.3	19.51	47.81	54	-6.19	AVG
		5456.1	40.46	19.54	60	74	-14	PK
		7013.3	39.2	8.86	48.06	68.2	-20.14	PK
	*	10520	30.84	17.99	48.83	68.2	-19.37	PK
Vertical	@	5260	96.05	18.88	114.93	N/A	N/A	PK
	@	5260	87.7	18.88	106.58	N/A	N/A	AVG
		5429.4	42.17	19.42	61.59	74	-12.41	PK
		5439.9	32.18	19.47	51.65	54	-2.35	AVG
		7013.3	52.72	8.86	61.58	68.2	-6.62	PK
	*	10520	30.73	17.99	48.72	68.2	-19.48	PK

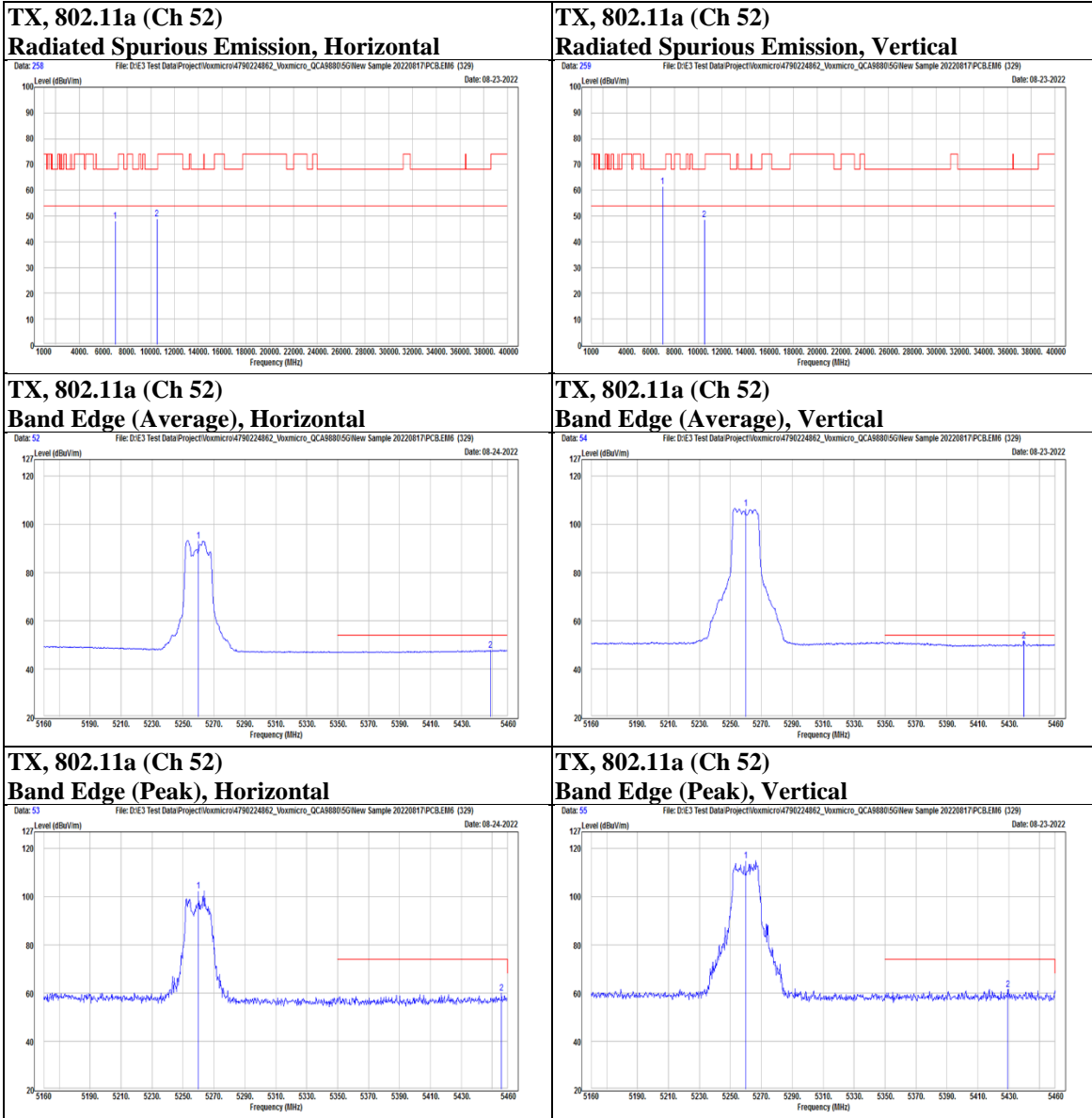
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Test report No. : 4790224862-US-R1-V0
Page : 323 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	60
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5300	80.11	18.77	98.88	N/A	N/A	PK
	@	5300	71.61	18.77	90.38	N/A	N/A	AVG
		5459.7	28.21	19.57	47.78	54	-6.22	AVG
		5460	39.53	19.57	59.1	68.2	-9.1	PK
		7066.7	38.17	9.33	47.5	68.2	-20.7	PK
	*	10600	30.24	18.04	48.28	68.2	-19.92	PK
Vertical	@	5300	95.61	18.77	114.38	N/A	N/A	PK
	@	5300	89.2	18.77	107.97	N/A	N/A	AVG
		5402.4	42.51	19.28	61.79	74	-12.21	PK
		5439.9	32.42	19.47	51.89	54	-2.11	AVG
		7066.7	51.64	9.33	60.97	68.2	-7.23	PK
	*	10600	30.92	18.04	48.96	68.2	-19.24	PK

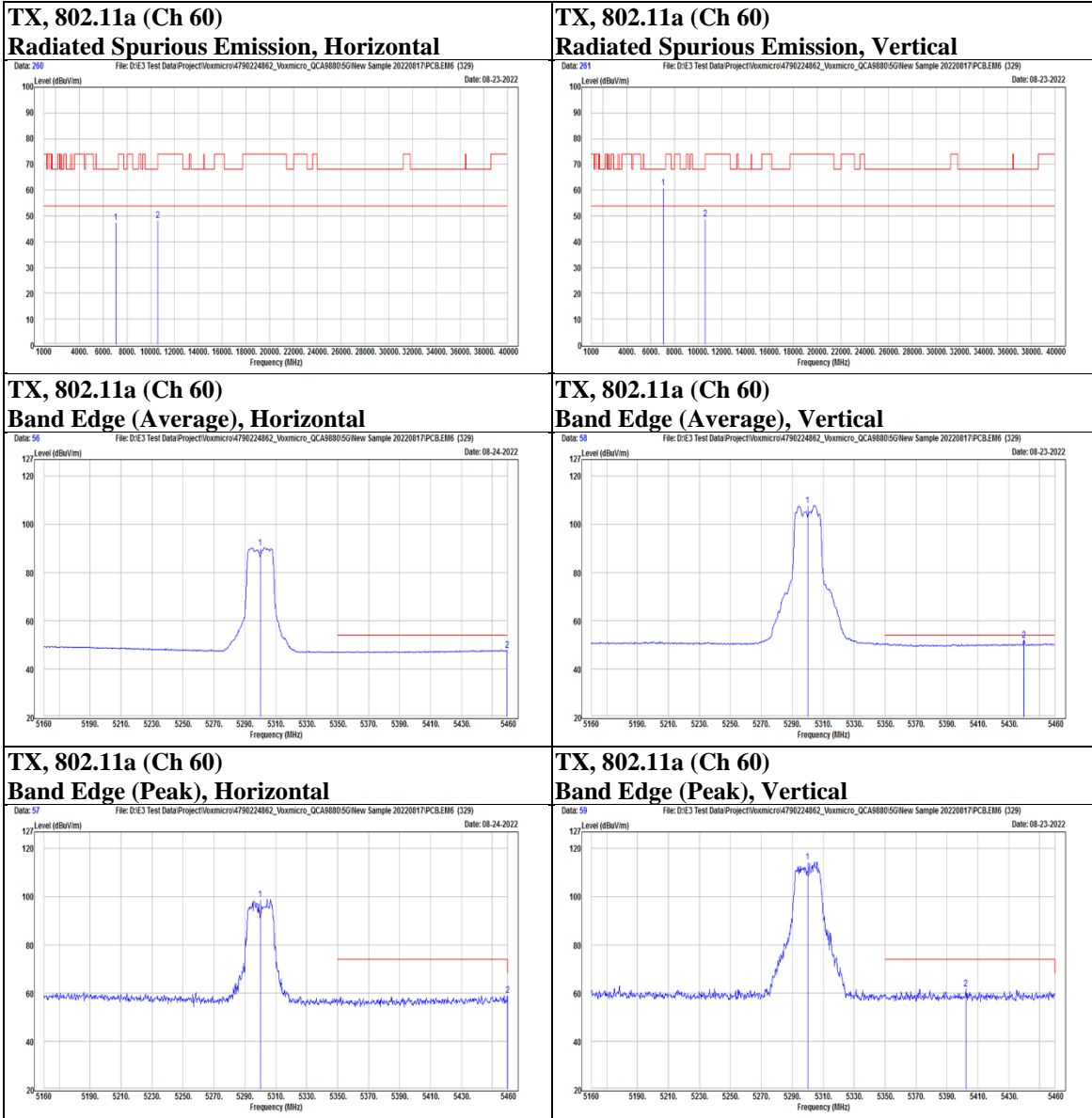
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Facsimile (FAX) :+886-3-583-7948

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Test report No. : 4790224862-US-R1-V0
Page : 325 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	64
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5320	81.89	18.86	100.75	N/A	N/A	PK
	@	5320	71.89	18.86	90.75	N/A	N/A	AVG
		5429.1	39.98	19.42	59.4	74	-14.6	PK
		5447.1	28.22	19.5	47.72	54	-6.28	AVG
		7093.3	36.05	9.53	45.58	68.2	-22.62	PK
	*	10640	29.95	18.03	47.98	74	-26.02	PK
Vertical	@	5320	94.57	18.86	113.43	N/A	N/A	PK
	@	5320	88.55	18.86	107.41	N/A	N/A	AVG
		5370.6	42.25	19.12	61.37	74	-12.63	PK
		5439.9	32.65	19.47	52.12	54	-1.88	AVG
		7093.3	50.25	9.53	59.78	68.2	-8.42	PK
	*	10640	30.73	18.03	48.76	74	-25.24	PK

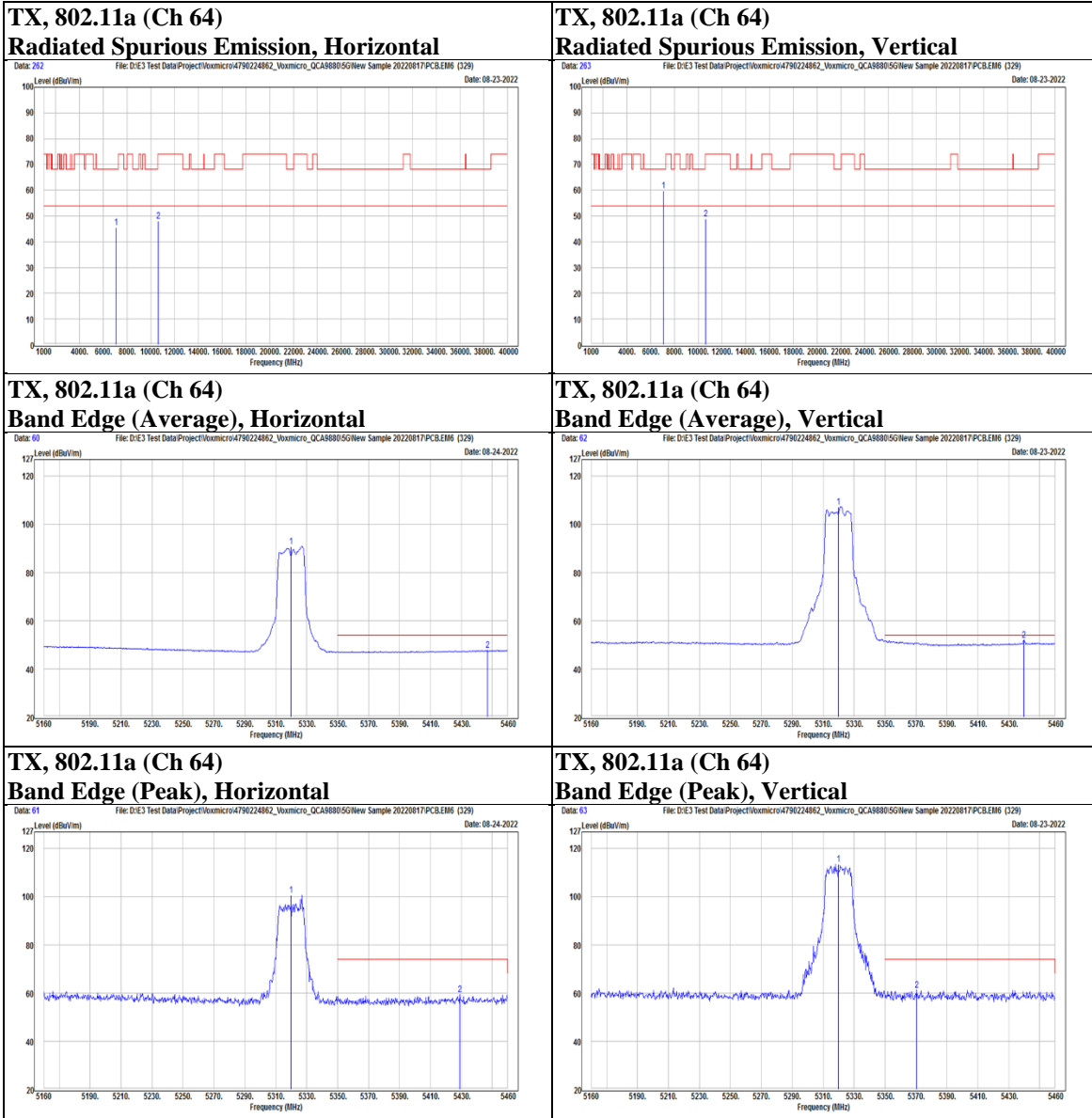
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Facsimile (FAX) : +886-3-583-7948

Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790224862-US-R1-V0
Page : 327 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	100
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5448.65	39.75	19.5	59.25	74	-14.75	PK
		5459.85	28.11	19.57	47.68	54	-6.32	AVG
		5466.85	39.2	19.61	58.81	68.2	-9.39	PK
	@	5500	78.8	19.77	98.57	N/A	N/A	PK
	@	5500	68.92	19.77	88.69	N/A	N/A	AVG
		7333.3	35.1	10.32	45.42	74	-28.58	PK
	*	11000	29.85	18.41	48.26	74	-25.74	PK
Vertical		5439.9	32.17	19.47	51.64	54	-2.36	AVG
		5444.1	41.58	19.5	61.08	74	-12.92	PK
		5470	41.36	19.62	60.98	68.2	-7.22	PK
	@	5500	93.69	19.77	113.46	N/A	N/A	PK
	@	5500	87.95	19.77	107.72	N/A	N/A	AVG
		7333.3	38.05	10.32	48.37	74	-25.63	PK
	*	11000	30.26	18.41	48.67	74	-25.33	PK

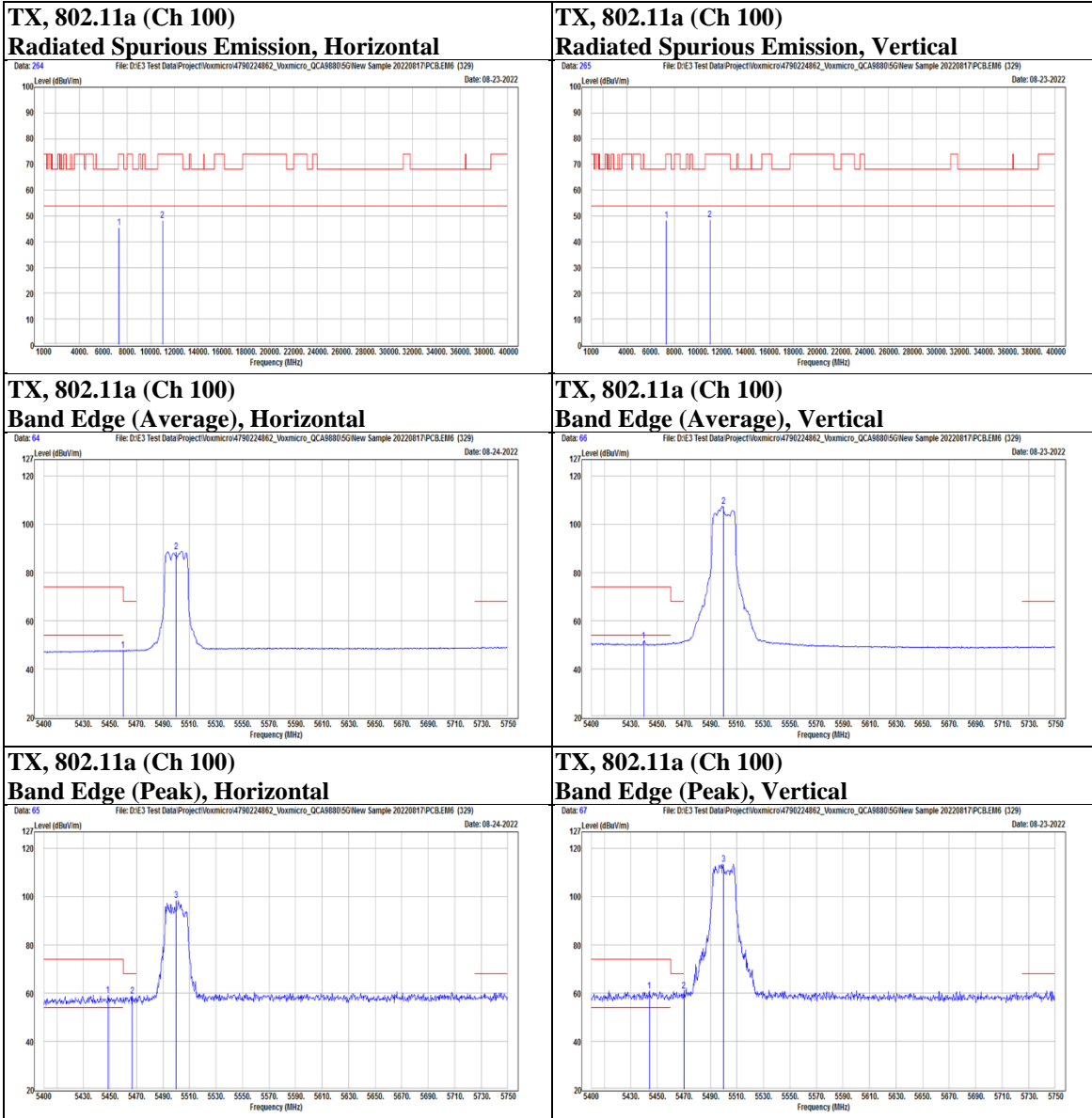
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Page : 329 of 387
Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	802.11a	Channel	116
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5453.9	39.89	19.54	59.43	74	-14.57	PK
		5459.5	28.14	19.57	47.71	54	-6.29	AVG
		5467.9	40.26	19.61	59.87	68.2	-8.33	PK
	@	5580	73.52	19.76	93.28	N/A	N/A	PK
	@	5580	67.95	19.76	87.71	N/A	N/A	AVG
		5732.85	40.47	20.03	60.5	68.2	-7.7	PK
		7440	33.52	10.73	44.25	74	-29.75	PK
	*	11160	30.79	18.47	49.26	74	-24.74	PK
Vertical		5439.9	33.11	19.47	52.58	54	-1.42	AVG
		5440.25	42.67	19.47	62.14	74	-11.86	PK
		5460.2	42.63	19.57	62.2	68.2	-6	PK
	@	5580	92.58	19.76	112.34	N/A	N/A	PK
	@	5580	86.07	19.76	105.83	N/A	N/A	AVG
		5725.15	40.78	19.96	60.74	68.2	-7.46	PK
		7440	35.42	10.73	46.15	74	-27.85	PK
	*	11160	30.58	18.47	49.05	74	-24.95	PK

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