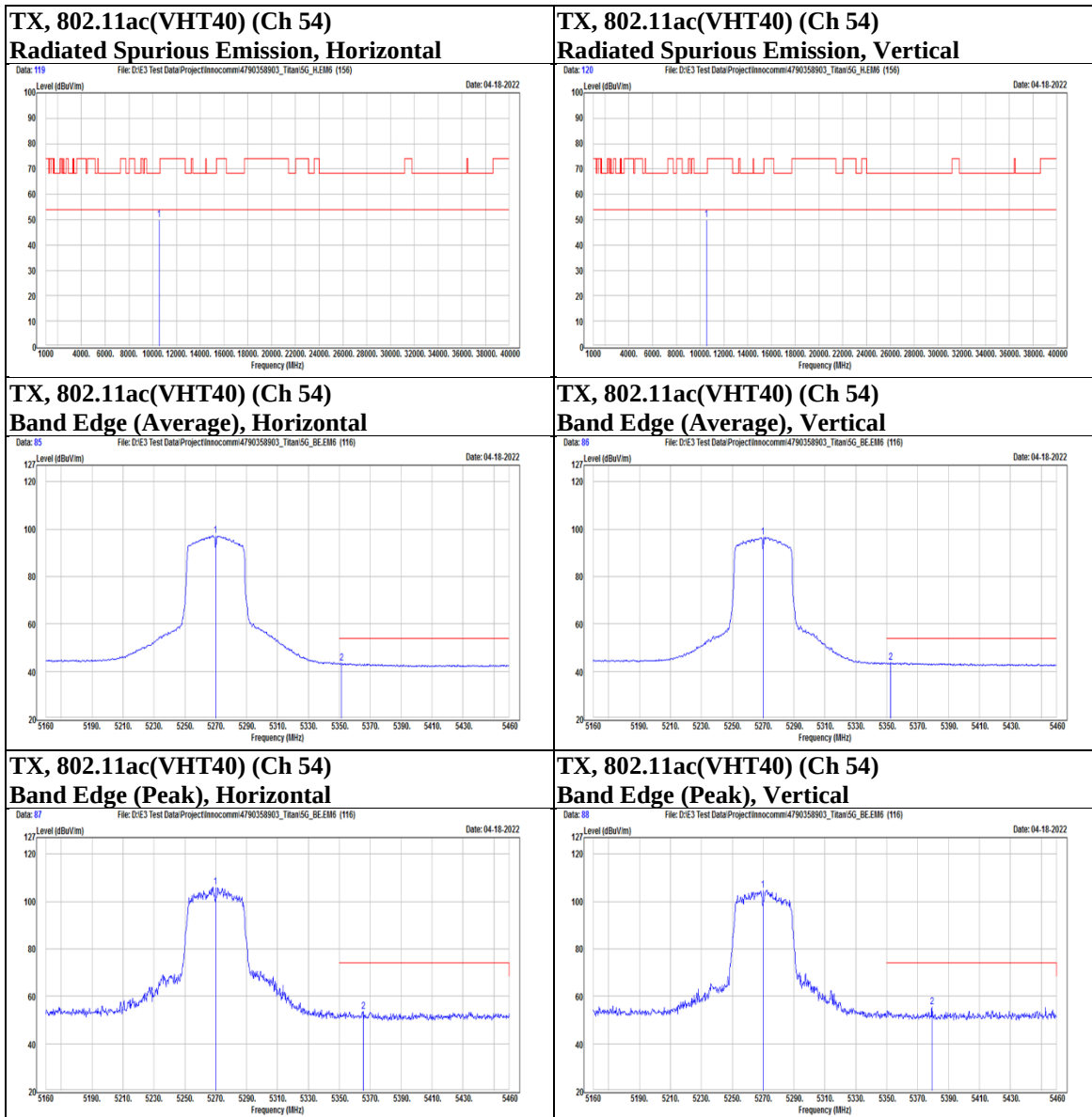




Test report No. : 4790358903-US-R1-V0
Page : 134 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01



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Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790358903-US-R1-V0
Page : 135 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT40)	Channel	62
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5310	93.34	12.81	106.15	N/A	N/A	PK
	@	5310	84.61	12.81	97.42	N/A	N/A	AVG
		5350.2	48.15	13.01	61.16	74	-12.84	PK
		5350.2	36.49	13.01	49.5	54	-4.5	AVG
	*	10620	31.11	18.04	49.15	74	-24.85	PK
Vertical	@	5310	92.28	12.81	105.09	N/A	N/A	PK
	@	5310	84.37	12.81	97.18	N/A	N/A	AVG
		5350.2	34.79	13.01	47.8	54	-6.2	AVG
		5352	45.75	13.03	58.78	74	-15.22	PK
	*	10620	31.48	18.04	49.52	74	-24.48	PK

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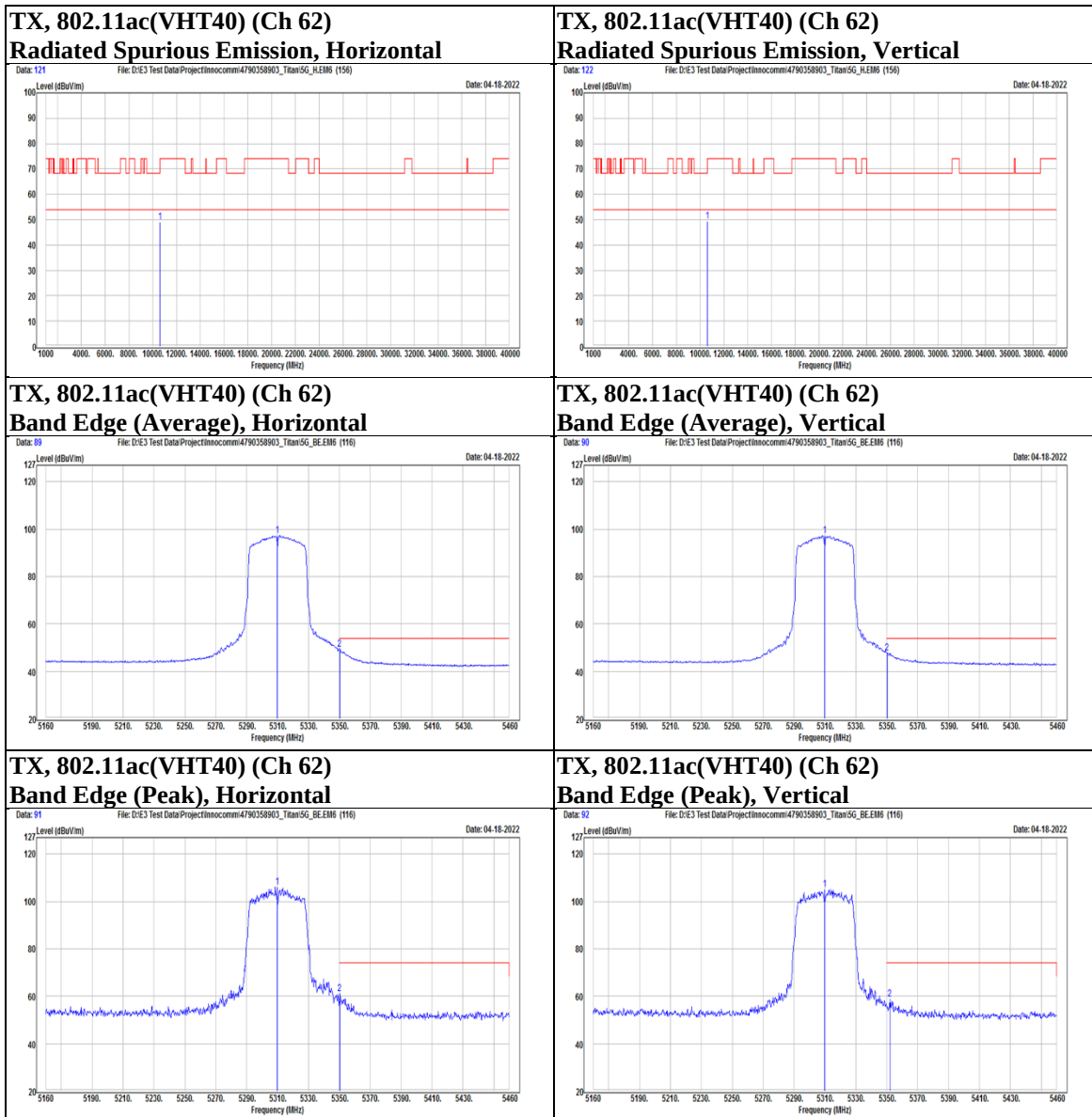
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Test report No. : 4790358903-US-R1-V0
Page : 136 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01



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Doc No: 17-EM-F0878 / 6.0



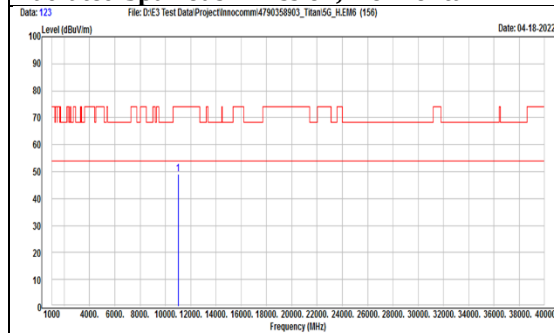
Test report No. : 4790358903-US-R1-V0
Page : 137 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT40)	Channel	102
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5454.95	44.2	13.54	57.74	74	-16.26	PK
		5454.95	33.1	13.54	46.64	54	-7.36	AVG
		5468.95	46.9	13.62	60.52	68.2	-7.68	PK
	@	5510	92.45	13.78	106.23	N/A	N/A	PK
	@	5510	82.1	13.78	95.88	N/A	N/A	AVG
	*	11020	30.6	18.42	49.02	74	-24.98	PK
Vertical		5425.2	43.33	13.39	56.72	74	-17.28	PK
		5425.2	32.5	13.39	45.89	54	-8.11	AVG
		5470	44.79	13.62	58.41	68.2	-9.79	PK
	@	5510	93.6	13.78	107.38	N/A	N/A	PK
	@	5510	83.2	13.78	96.98	N/A	N/A	AVG
	*	11020	31.38	18.42	49.8	74	-24.2	PK

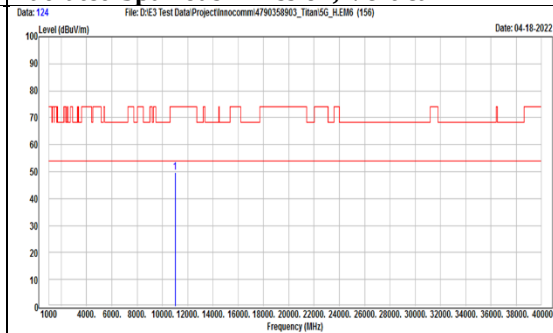
TX, 802.11ac(VHT40) (Ch 102)

Radiated Spurious Emission, Horizontal



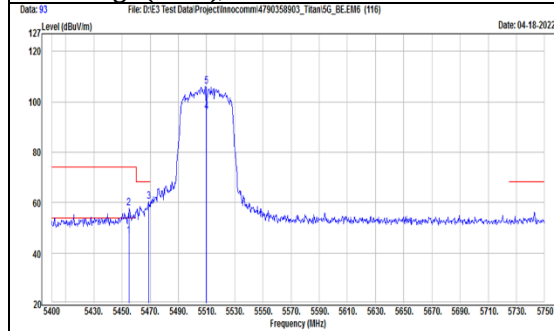
TX, 802.11ac(VHT40) (Ch 102)

Radiated Spurious Emission, Vertical



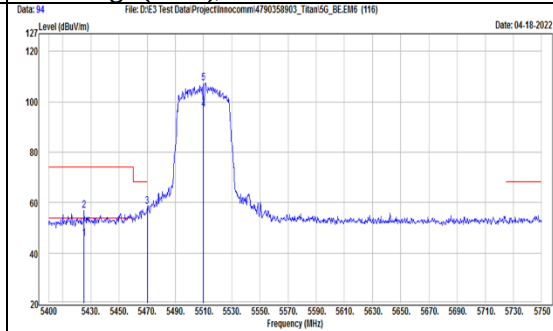
TX, 802.11ac(VHT40) (Ch 102)

Band Edge (Peak), Horizontal



TX, 802.11ac(VHT40) (Ch 102)

Band Edge (Peak), Vertical



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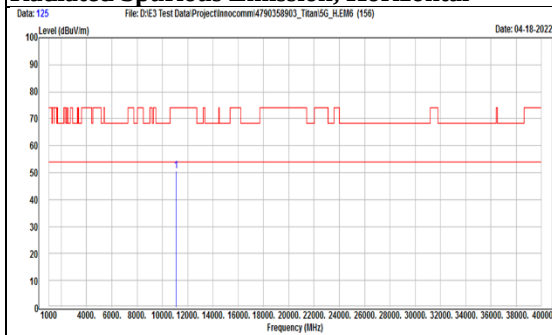


Mode	802.11ac(VHT40)	Channel	110
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5456.7	40.94	13.55	54.49	74	-19.51	PK
		5456.7	29.9	13.55	43.45	54	-10.55	AVG
		5460.2	41.09	13.57	54.66	68.2	-13.54	PK
	@	5550	92.54	13.83	106.37	N/A	N/A	PK
	@	5550	82.41	13.83	96.24	N/A	N/A	AVG
		5736.7	41.53	14.07	55.6	68.2	-12.6	PK
	*	11100	32.17	18.45	50.62	74	-23.38	PK
Vertical		5453.2	41.63	13.53	55.16	74	-18.84	PK
		5453.2	30.2	13.53	43.73	54	-10.27	AVG
		5465.1	41.66	13.59	55.25	68.2	-12.95	PK
	@	5550	93.29	13.83	107.12	N/A	N/A	PK
	@	5550	83.11	13.83	96.94	N/A	N/A	AVG
		5738.1	40.17	14.08	54.25	68.2	-13.95	PK
	*	11100	31.18	18.45	49.63	74	-24.37	PK

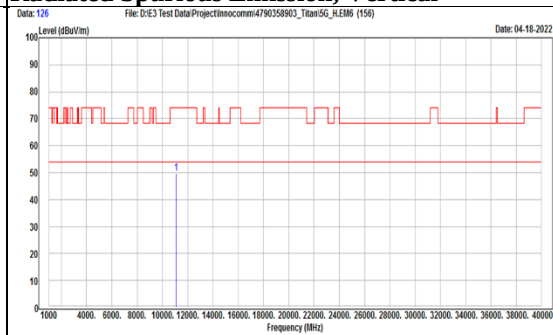
TX, 802.11ac(VHT40) (Ch 110)

Radiated Spurious Emission, Horizontal



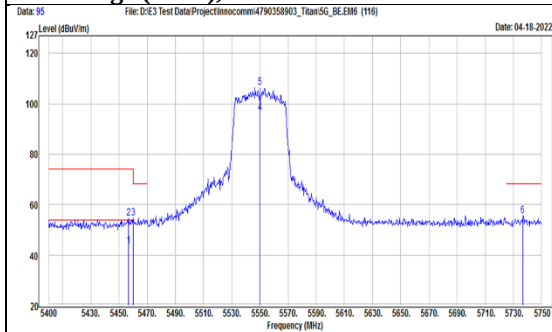
TX, 802.11ac(VHT40) (Ch 110)

Radiated Spurious Emission, Vertical



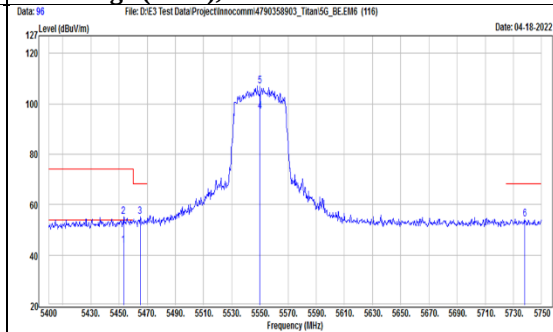
TX, 802.11ac(VHT40) (Ch 110)

Band Edge (Peak), Horizontal



TX, 802.11ac(VHT40) (Ch 110)

Band Edge (Peak), Vertical



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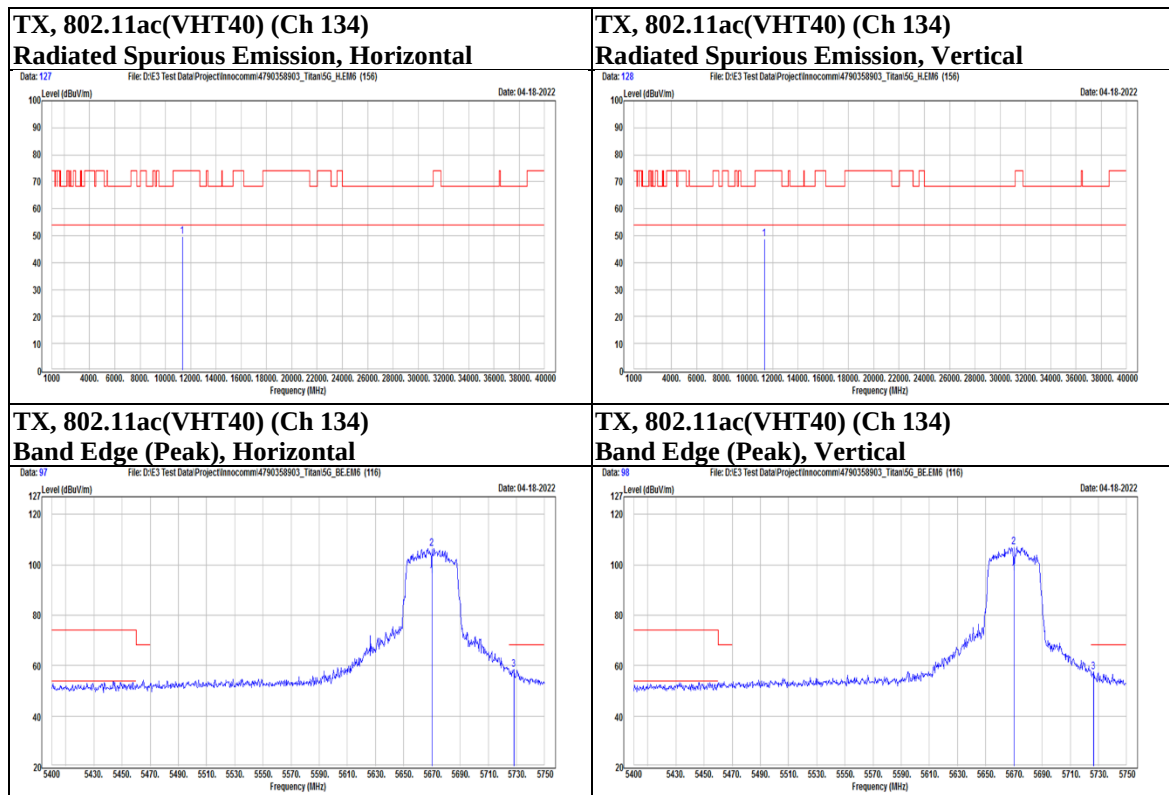
Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790358903-US-R1-V0
Page : 139 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

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	@	5670	92.8	13.69	106.49	N/A	N/A	PK
	@	5670	82	13.69	95.69	N/A	N/A	AVG
	*	5728.3	44.4	14	58.4	68.2	-9.8	PK
	*	11340	31	18.58	49.58	74	-24.42	PK
Vertical	@	5670	93.3	13.69	106.99	N/A	N/A	PK
	@	5670	83.1	13.69	96.79	N/A	N/A	AVG
	*	5726.55	43.67	13.97	57.64	68.2	-10.56	PK
	*	11340	30.09	18.58	48.67	74	-25.33	PK



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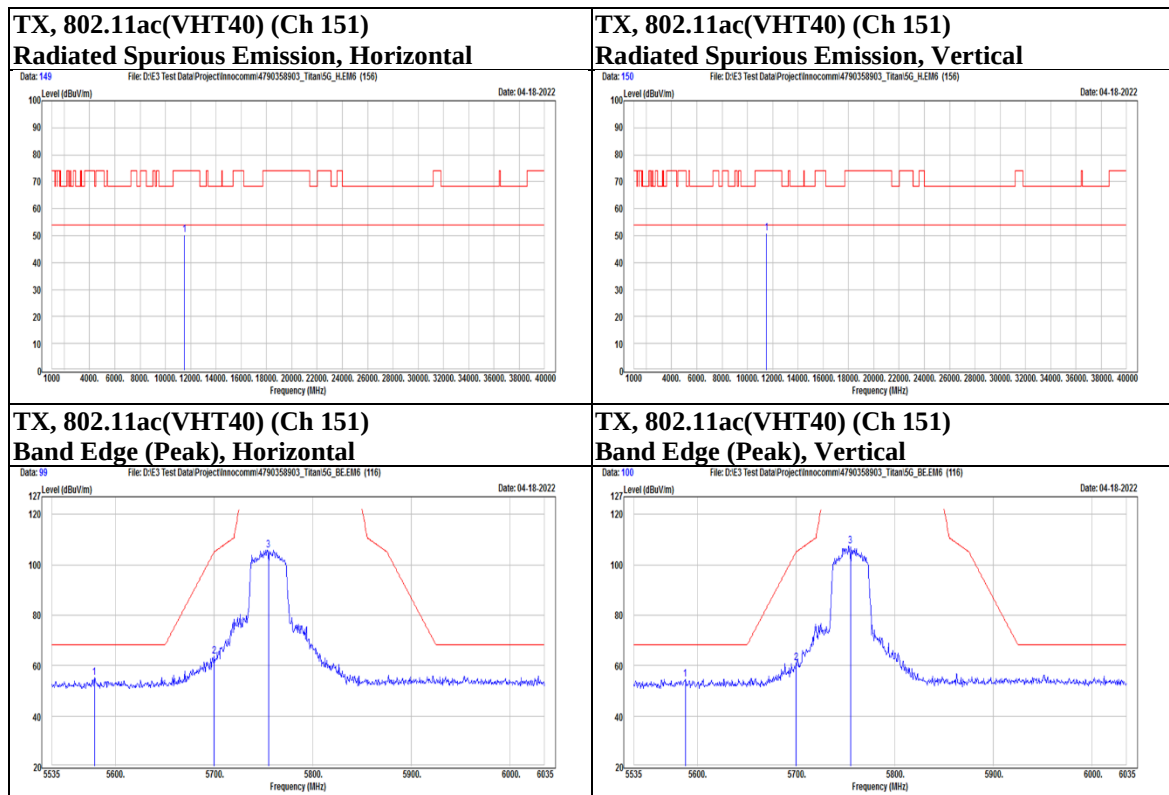
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Test report No. : 4790358903-US-R1-V0
Page : 140 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT40)	Channel	151
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5578.5	41.47	13.76	55.23	68.2	-12.97	PK
		5700	50.03	13.73	63.76	105.2	-41.44	PK
	@	5755	91.73	14.22	105.95	N/A	N/A	PK
	*	11510	31.01	19.34	50.35	74	-23.65	PK
Vertical		5587.5	40.97	13.74	54.71	68.2	-13.49	PK
		5700	47.28	13.73	61.01	105.2	-44.19	PK
	@	5755	93.35	14.22	107.57	N/A	N/A	PK
	*	11510	31.69	19.34	51.03	74	-22.97	PK



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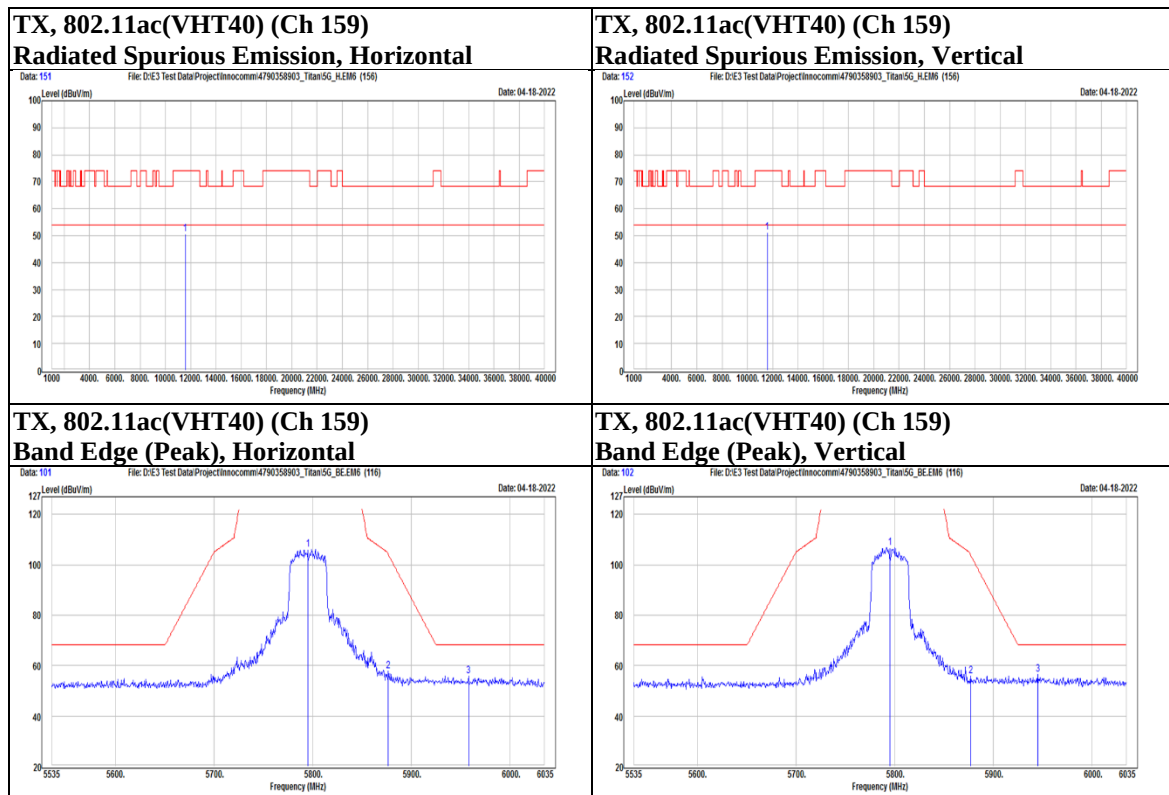
Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790358903-US-R1-V0
Page : 141 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT40)	Channel	159
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5795	91.54	14.52	106.06	N/A	N/A	PK
		5876.5	42.89	14.81	57.7	104.09	-46.39	PK
		5958	41.03	14.95	55.98	68.2	-12.22	PK
	*	11590	31.62	18.99	50.61	74	-23.39	PK
Vertical	@	5795	92.25	14.52	106.77	N/A	N/A	PK
		5877	41.2	14.81	56.01	103.71	-47.7	PK
		5945	41.55	14.95	56.5	68.2	-11.7	PK
	*	11590	32.26	18.99	51.25	74	-22.75	PK



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Test report No. : 4790358903-US-R1-V0
Page : 142 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

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		5145.25	47.98	13.4	61.38	74	-12.62	PK
		5149.45	39.55	13.4	52.95	54	-1.05	AVG
	@	5210	90.18	13.18	103.36	N/A	N/A	PK
	@	5210	81.55	13.18	94.73	N/A	N/A	AVG
	*	10420	32.24	17.76	50	68.2	-18.2	PK
Vertical		5149.1	48.08	13.4	61.48	74	-12.52	PK
		5149.45	39.98	13.4	53.38	54	-0.62	AVG
	@	5210	89.8	13.18	102.98	N/A	N/A	PK
	@	5210	81.8	13.18	94.98	N/A	N/A	AVG
	*	10420	30.84	17.76	48.6	68.2	-19.6	PK

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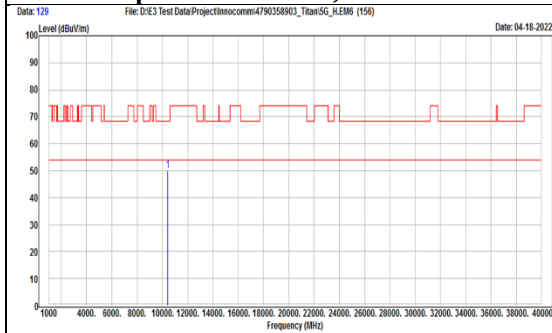
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Doc No: 17-EM-F0878 / 6.0

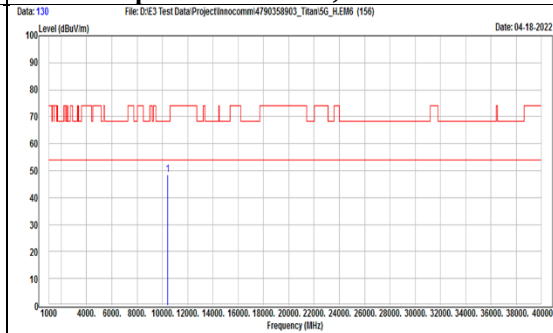


Test report No. : 4790358903-US-R1-V0
Page : 143 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

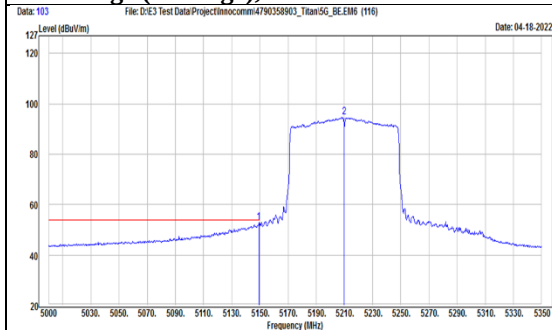
TX, 802.11ac(VHT80) (Ch 42)
Radiated Spurious Emission, Horizontal



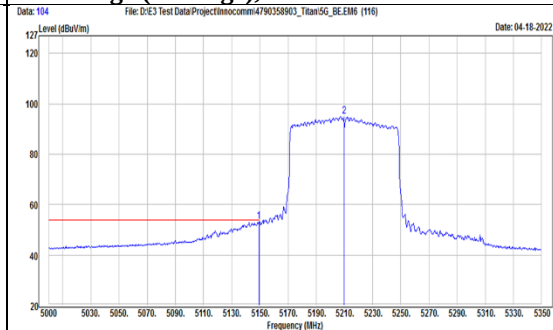
TX, 802.11ac(VHT80) (Ch 42)
Radiated Spurious Emission, Vertical



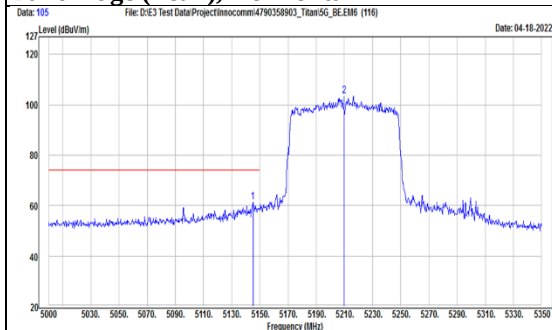
TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Average), Horizontal



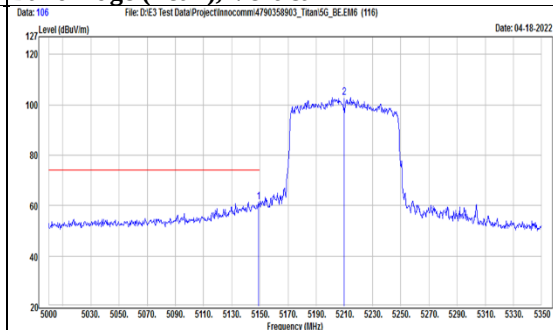
TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Average), Vertical



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



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



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Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790358903-US-R1-V0
Page : 144 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

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	89.85	12.79	102.64	N/A	N/A	PK
	@	5290	81.35	12.79	94.14	N/A	N/A	AVG
		5350.5	39.79	13.01	52.8	54	-1.2	AVG
		5350.8	50.08	13.01	63.09	74	-10.91	PK
	*	10580	31.04	18.04	49.08	68.2	-19.12	PK
Vertical	@	5290	89.19	12.79	101.98	N/A	N/A	PK
	@	5290	81.26	12.79	94.05	N/A	N/A	AVG
		5350.8	39.61	13.01	52.62	54	-1.38	AVG
		5358.3	47.44	13.05	60.49	74	-13.51	PK
	*	10580	32.26	18.04	50.3	68.2	-17.9	PK

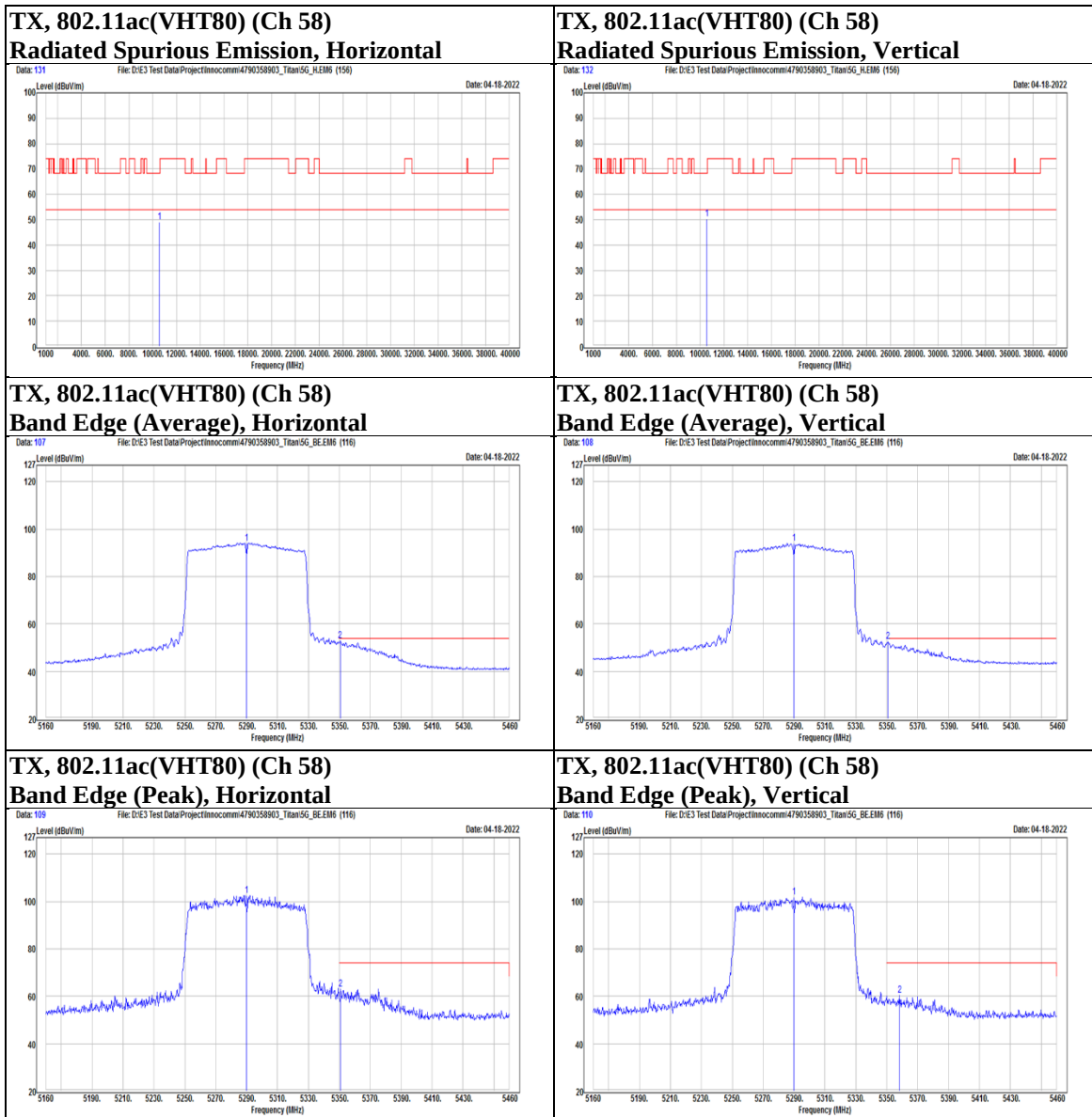
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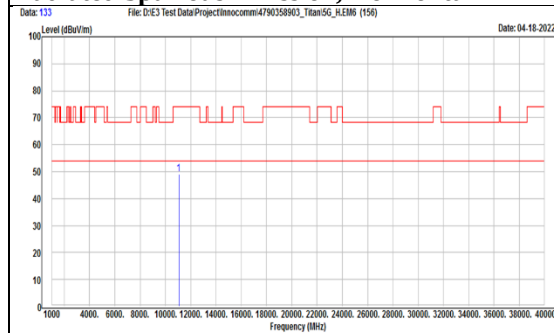
Test report No. : 4790358903-US-R1-V0
Page : 146 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT80)	Channel	106
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5455.65	51.5	13.54	65.04	74	-8.96	PK
		5455.65	39.11	13.54	52.65	54	-1.35	AVG
		5469.65	52.07	13.62	65.69	68.2	-2.51	PK
	@	5530	89.61	13.81	103.42	N/A	N/A	PK
	@	5530	79.9	13.81	93.71	N/A	N/A	AVG
	*	11060	30.58	18.44	49.02	74	-24.98	PK
Vertical		5455.65	48.6	13.54	62.14	74	-11.86	PK
		5455.65	37.51	13.54	51.05	54	-2.95	AVG
		5464.4	49.74	13.59	63.33	68.2	-4.87	PK
	@	5530	89.35	13.81	103.16	N/A	N/A	PK
	@	5530	79.1	13.81	92.91	N/A	N/A	AVG
	*	11060	30.75	18.44	49.19	74	-24.81	PK

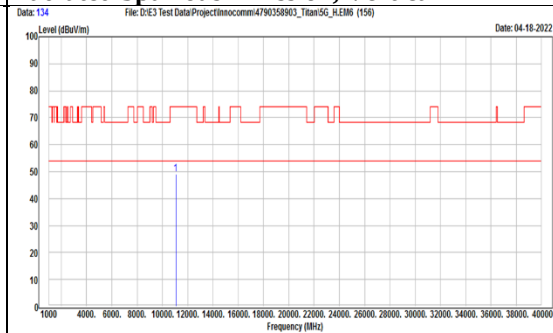
TX, 802.11ac(VHT80) (Ch 106)

Radiated Spurious Emission, Horizontal



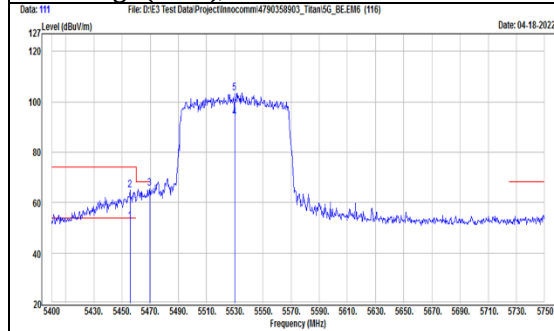
TX, 802.11ac(VHT80) (Ch 106)

Radiated Spurious Emission, Vertical



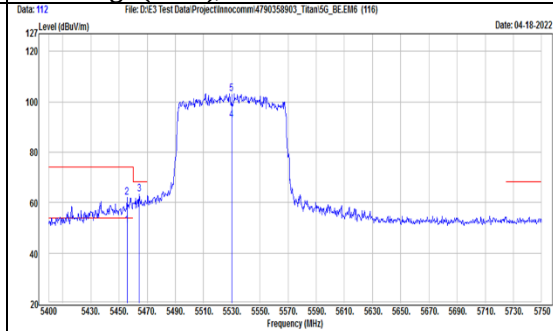
TX, 802.11ac(VHT80) (Ch 106)

Band Edge (Peak), Horizontal



TX, 802.11ac(VHT80) (Ch 106)

Band Edge (Peak), Vertical



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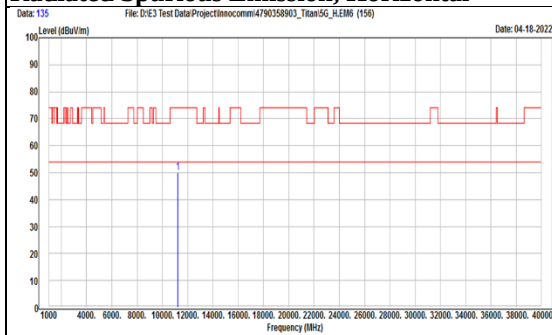
Test report No. : 4790358903-US-R1-V0
Page : 147 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT80)	Channel	122
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5453.9	40.42	13.54	53.96	74	-20.04	PK
		5453.9	29.5	13.54	43.04	54	-10.96	AVG
		5467.55	42.19	13.61	55.8	68.2	-12.4	PK
	@	5610	90	13.69	103.69	N/A	N/A	PK
	@	5610	79.6	13.69	93.29	N/A	N/A	AVG
		5739.85	41.39	14.1	55.49	68.2	-12.71	PK
	*	11220	31.57	18.47	50.04	74	-23.96	PK
Vertical		5459.5	41.49	13.57	55.06	74	-18.94	PK
		5459.5	30.2	13.57	43.77	54	-10.23	AVG
		5468.95	42.04	13.62	55.66	68.2	-12.54	PK
	@	5610	89.2	13.69	102.89	N/A	N/A	PK
	@	5610	79.8	13.69	93.49	N/A	N/A	AVG
		5730.4	41.11	14.01	55.12	68.2	-13.08	PK
	*	11220	31.35	18.47	49.82	74	-24.18	PK

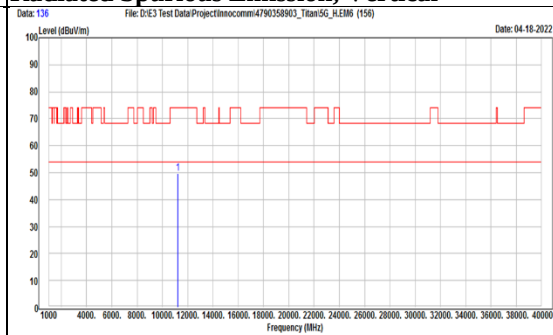
TX, 802.11ac(VHT80) (Ch 122)

Radiated Spurious Emission, Horizontal



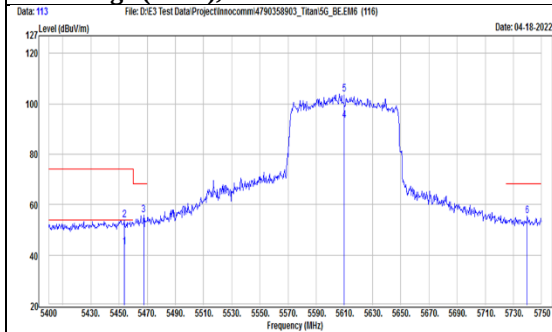
TX, 802.11ac(VHT80) (Ch 122)

Radiated Spurious Emission, Vertical



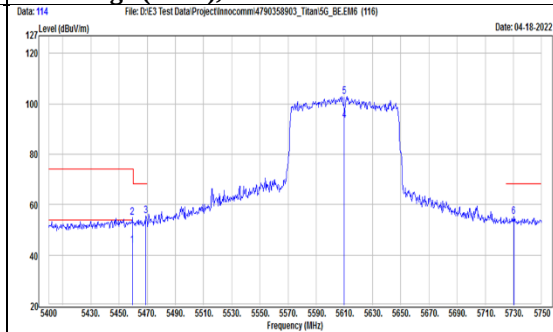
TX, 802.11ac(VHT80) (Ch 122)

Band Edge (Peak), Horizontal



TX, 802.11ac(VHT80) (Ch 122)

Band Edge (Peak), Vertical



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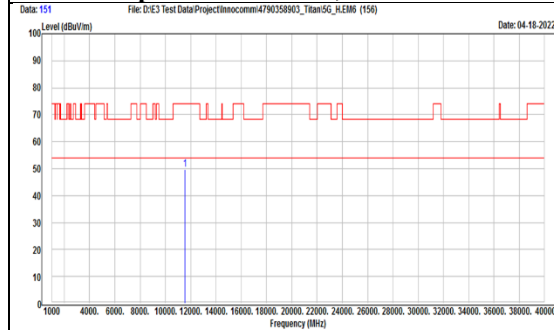
Test report No. : 4790358903-US-R1-V0
Page : 148 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11ac(VHT80)	Channel	155
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5646	46.08	13.67	59.75	68.2	-8.45	PK
		5681.5	60.36	13.7	74.06	91.55	-17.49	PK
		5775	89.28	14.37	103.65	N/A	N/A	PK
	*	5880	50.1	14.84	64.94	101.49	-36.55	PK
		5962	41	14.96	55.96	68.2	-12.24	PK
		11550	30.64	19.16	49.8	74	-24.2	PK
Vertical	@	5650	45.28	13.67	58.95	68.2	-9.25	PK
		5682.5	54.44	13.7	68.14	92.29	-24.15	PK
		5775	89.07	14.37	103.44	N/A	N/A	PK
	*	5880	46.06	14.84	60.9	101.49	-40.59	PK
		5943.5	41.39	14.94	56.33	68.2	-11.87	PK
		11550	30.85	19.16	50.01	74	-23.99	PK

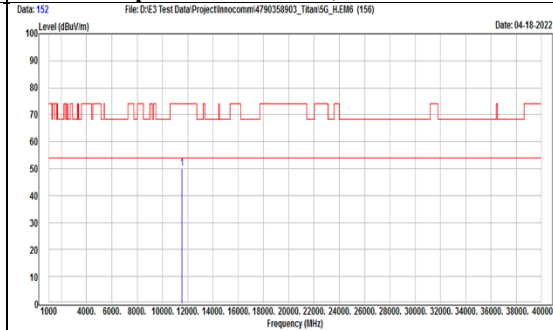
TX, 802.11ac(VHT80) (Ch 155)

Radiated Spurious Emission, Horizontal



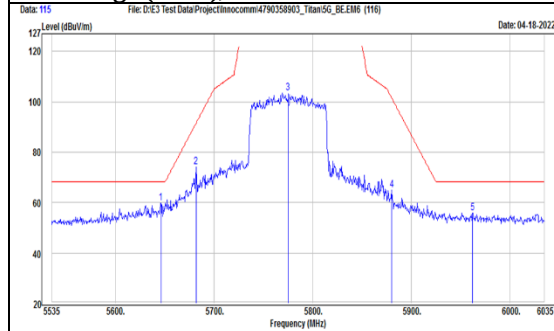
TX, 802.11ac(VHT80) (Ch 155)

Radiated Spurious Emission, Vertical



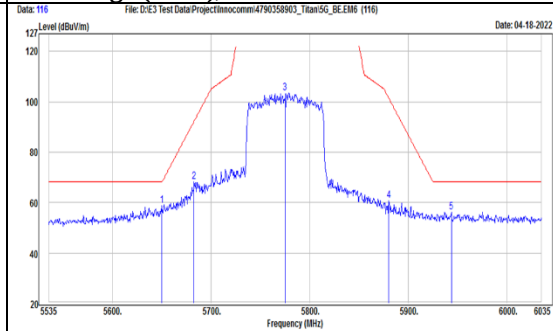
TX, 802.11ac(VHT80) (Ch 155)

Band Edge (Peak), Horizontal



TX, 802.11ac(VHT80) (Ch 155)

Band Edge (Peak), Vertical



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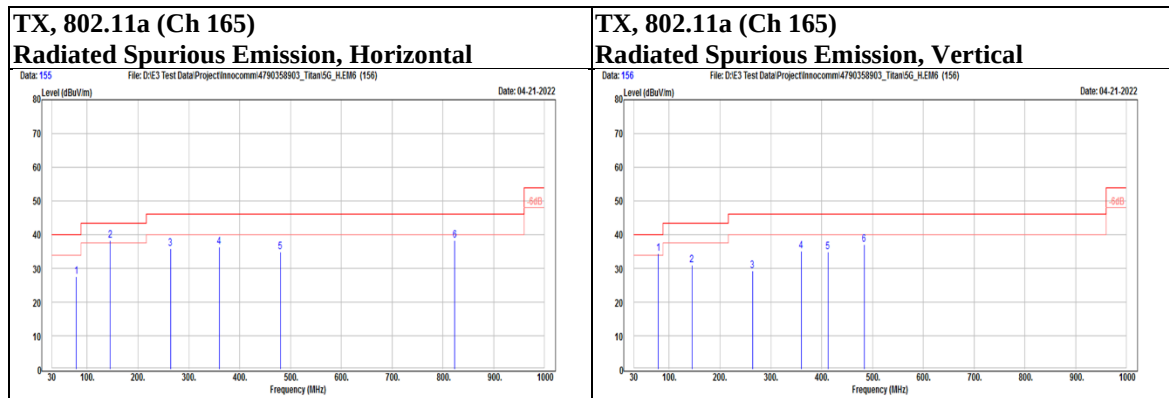


Test report No. : 4790358903-US-R1-V0
Page : 149 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Below 1 GHz

Mode	802.11a	Channel	165
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		78.5	43.57	-16.03	27.54	40	-12.46	PK
		145.43	49.93	-11.73	38.2	43.5	-5.3	PK
		263.77	47.13	-11.27	35.86	46	-10.14	PK
		359.8	44.63	-8.3	36.33	46	-9.67	PK
		480.08	40.17	-5.26	34.91	46	-11.09	PK
		823.46	36.78	1.55	38.33	46	-7.67	PK
Vertical		78.5	50.52	-16.03	34.49	40	-5.51	PK
		144.46	42.7	-11.83	30.87	43.5	-12.63	PK
		263.77	40.59	-11.27	29.32	46	-16.68	PK
		359.8	43.5	-8.3	35.2	46	-10.8	PK
		412.18	41.64	-6.83	34.81	46	-11.19	PK
		483.96	42.15	-5.08	37.07	46	-8.93	PK



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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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9.8. 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).

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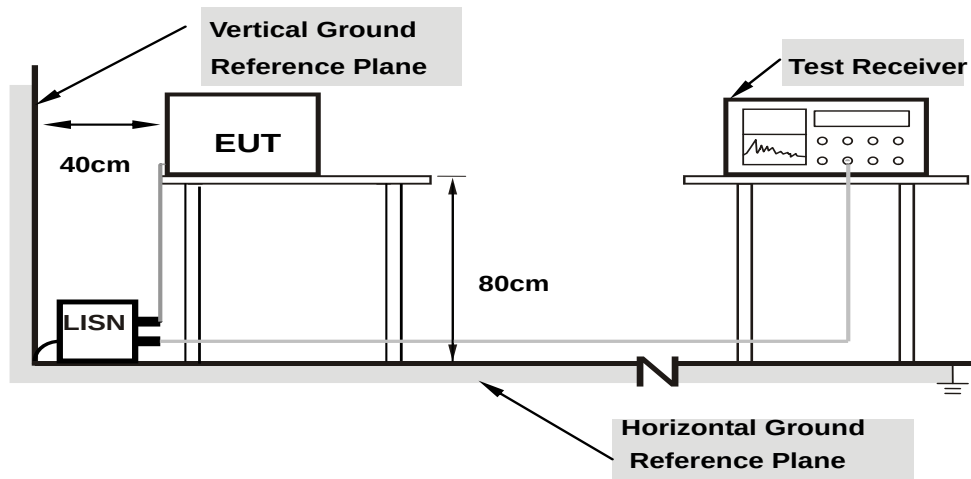
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Test Setup



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

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

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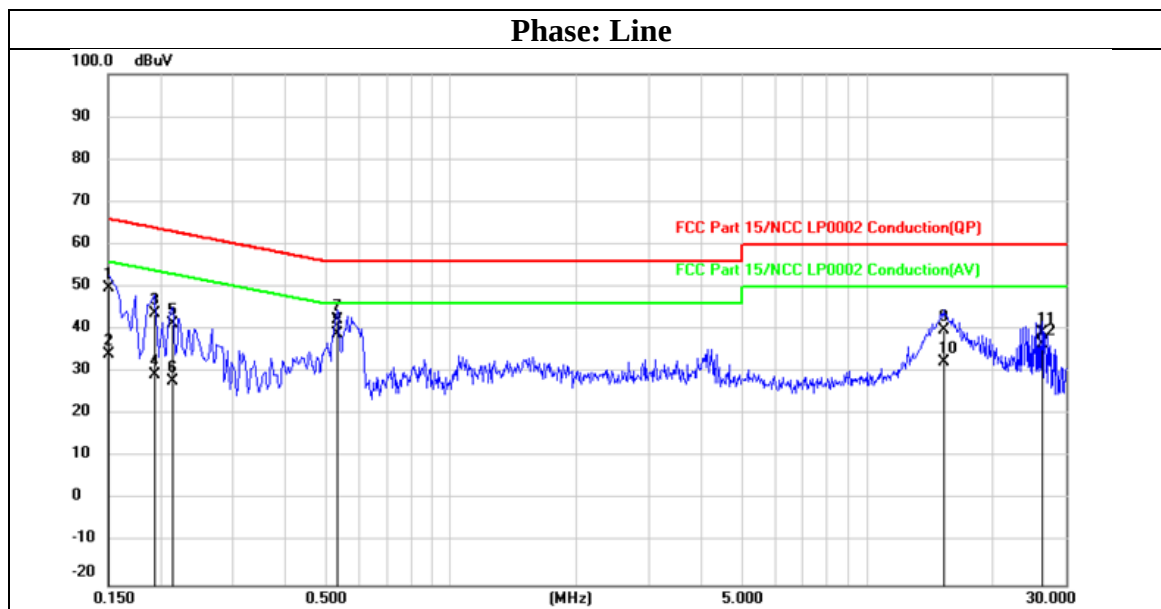
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Test Data

Mode	802.11a_TX5825	Channel	165
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	30.39	19.47	49.86	66.00	-16.14	QP
2	0.1500	14.69	19.47	34.16	56.00	-21.84	AVG
3	0.1940	24.41	19.47	43.88	63.86	-19.98	QP
4	0.1940	10.00	19.47	29.47	53.86	-24.39	AVG
5	0.2140	21.83	19.48	41.31	63.05	-21.74	QP
6	0.2140	8.30	19.48	27.78	53.05	-25.27	AVG
7	0.5340	22.89	19.49	42.38	56.00	-13.62	QP
8	0.5340	19.35	19.49	38.84	46.00	-7.16	AVG
9	15.2980	20.16	19.73	39.89	60.00	-20.11	QP
10	15.2980	12.65	19.73	32.38	50.00	-17.62	AVG
11	26.3060	19.52	19.76	39.28	60.00	-20.72	QP
12	26.3060	16.68	19.76	36.44	50.00	-13.56	AVG

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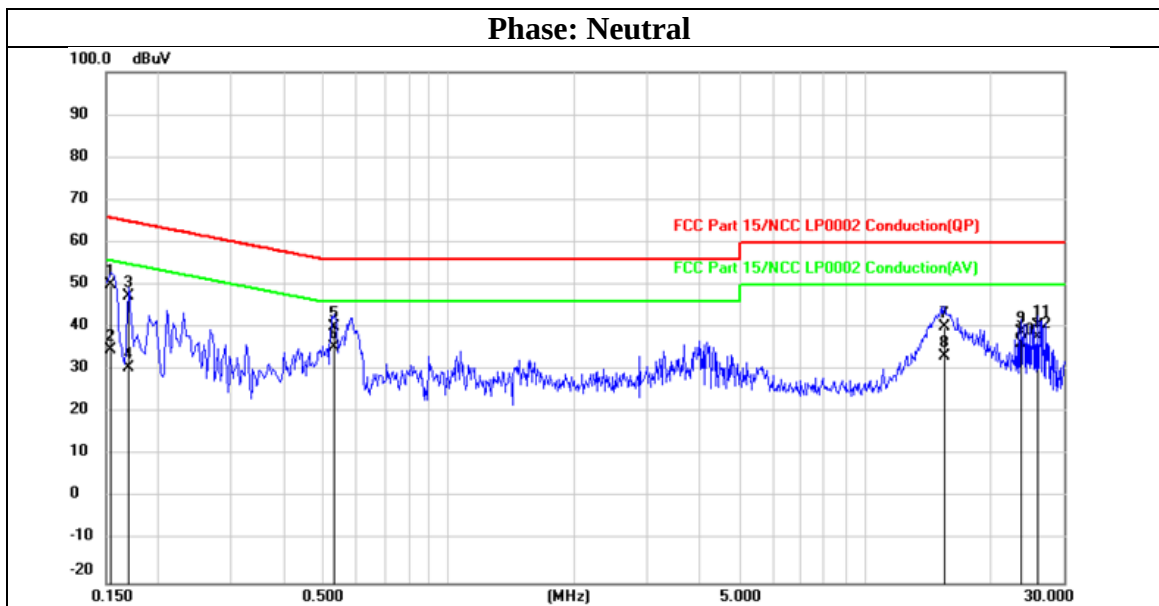
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Test report No. : 4790358903-US-R1-V0
Page : 154 of 154
Issued date : 2022/6/7
FCC ID : 2A4GY-LB-TABLET01

Mode	802.11a_TX5825	Channel	165
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	30.67	19.47	50.14	65.79	-15.65	QP
2	0.1539	15.30	19.47	34.77	55.79	-21.02	AVG
3	0.1700	27.77	19.47	47.24	64.96	-17.72	QP
4	0.1700	11.13	19.47	30.60	54.96	-24.36	AVG
5	0.5299	20.64	19.49	40.13	56.00	-15.87	QP
6	0.5299	16.00	19.49	35.49	46.00	-10.51	AVG
7	15.5020	20.51	19.78	40.29	60.00	-19.71	QP
8	15.5020	13.53	19.78	33.31	50.00	-16.69	AVG
9	23.7220	19.14	19.84	38.98	60.00	-21.02	QP
10	23.7220	16.44	19.84	36.28	50.00	-13.72	AVG
11	25.9380	20.68	19.87	40.55	60.00	-19.45	QP
12	25.9380	17.77	19.87	37.64	50.00	-12.36	AVG

END OF REPORT

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