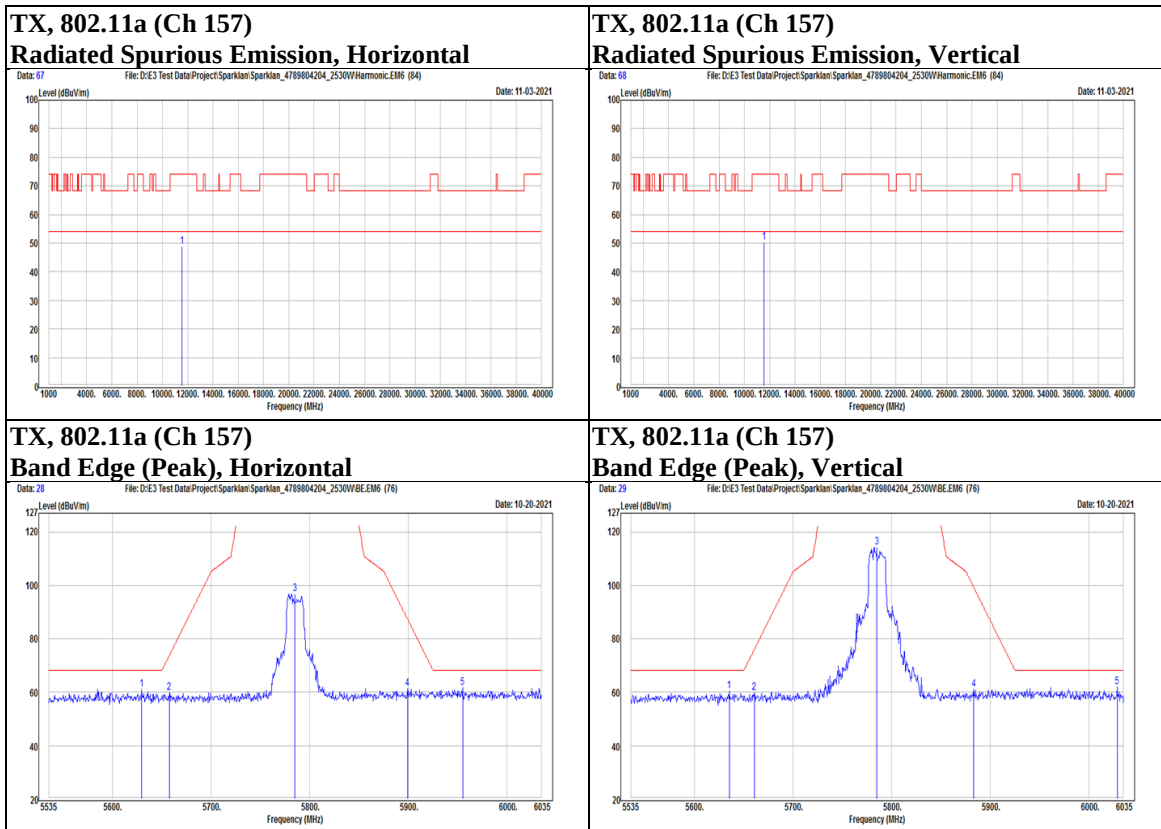




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Mode	802.11a	Channel	165
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5825	76.17	20.69	96.86	N/A	N/A	PK
		5911	40.81	20.97	61.78	78.53	-16.75	PK
		6005.5	40.44	21.18	61.62	68.2	-6.58	PK
	*	11650	29.55	18.63	48.18	74	-25.82	PK
Vertical	@	5825	91.87	20.69	112.56	N/A	N/A	PK
		5921	40.71	20.99	61.7	71.15	-9.45	PK
		6006	40.32	21.18	61.5	68.2	-6.7	PK
	*	11650	29.11	18.63	47.74	74	-26.26	PK

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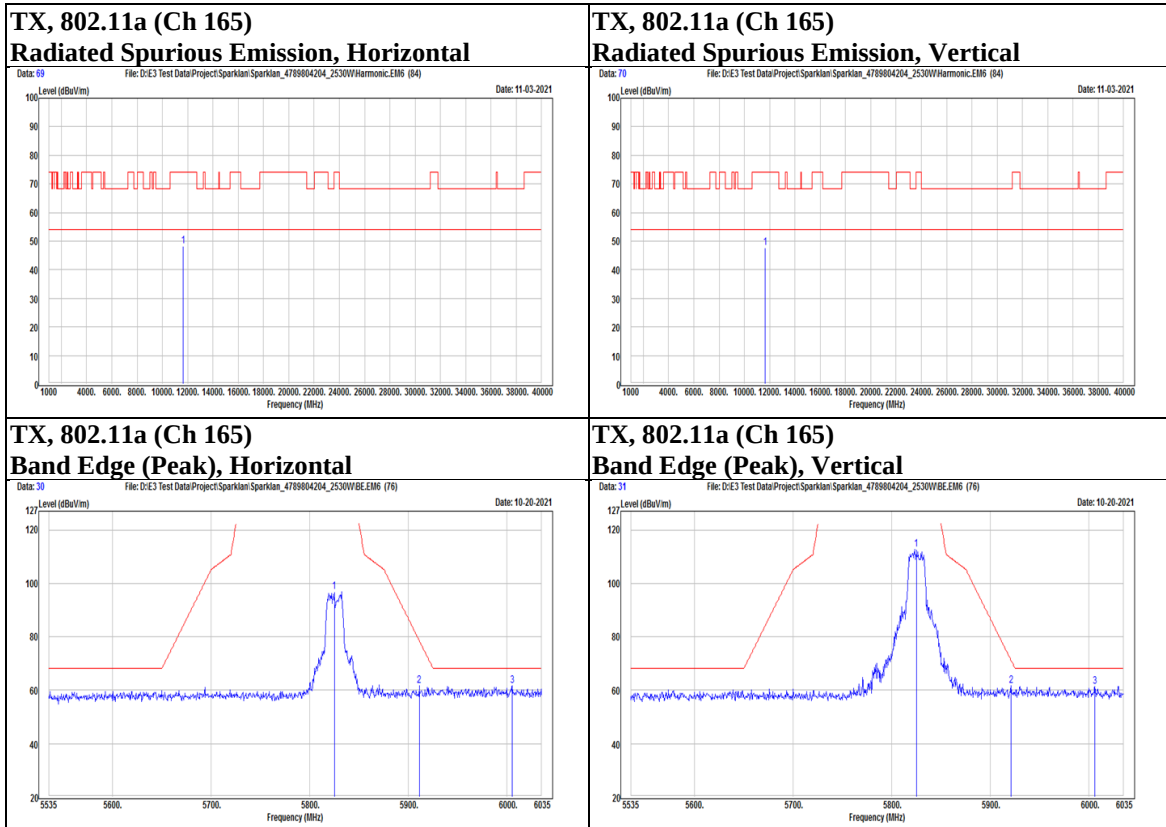
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Mode	802.11ac(VHT20)	Channel	36
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5109.2	41.67	19.46	61.13	74	-12.87	PK
		5117.6	30.26	19.45	49.71	54	-4.29	AVG
	@	5180	75.79	19.4	95.19	N/A	N/A	PK
	@	5180	68.15	19.4	87.55	N/A	N/A	AVG
		10360	30.69	17.39	48.08	68.2	-20.12	PK
Vertical		5149.1	37.43	19.43	56.86	74	-17.14	PK
		5149.1	32.46	19.43	51.89	54	-2.11	AVG
	@	5180	82.94	19.4	102.34	N/A	N/A	PK
	@	5180	79.38	19.4	98.78	N/A	N/A	AVG
		10360	30.68	17.39	48.07	68.2	-20.13	PK

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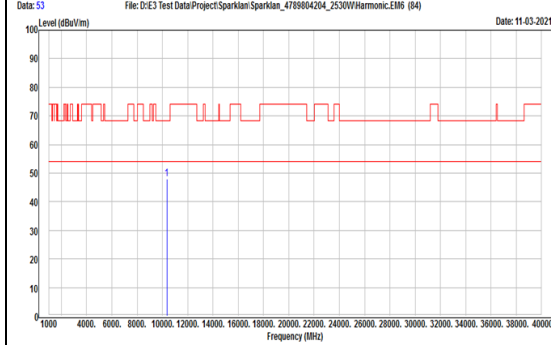
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Doc No: 17-EM-F0878 / 6.0

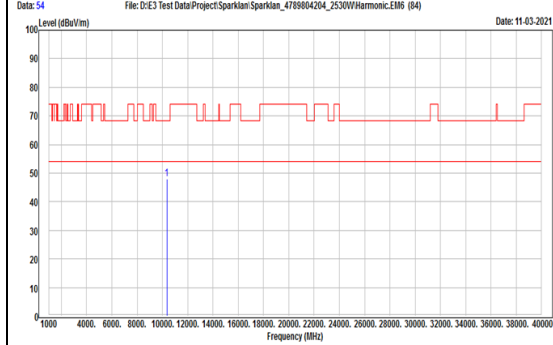


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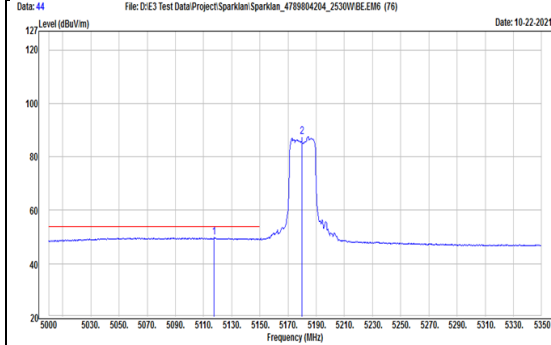
TX, 802.11ac(VHT20) (Ch 36)
Radiated Spurious Emission, Horizontal



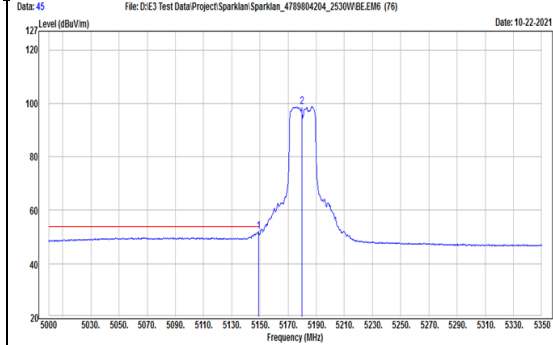
TX, 802.11ac(VHT20) (Ch 36)
Radiated Spurious Emission, Vertical



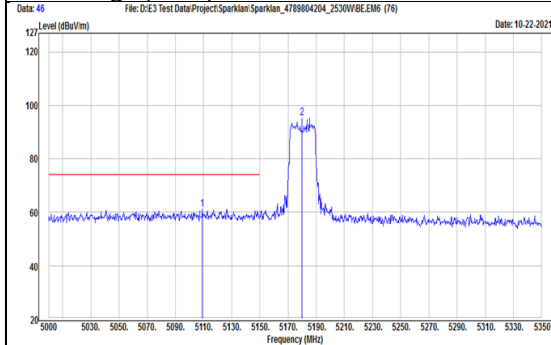
TX, 802.11ac(VHT20) (Ch 36)
Band Edge (Average), Horizontal



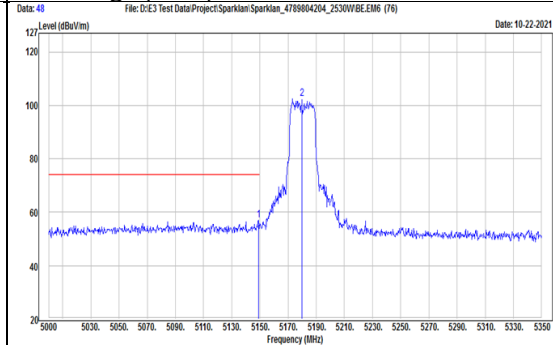
TX, 802.11ac(VHT20) (Ch 36)
Band Edge (Average), Vertical



TX, 802.11ac(VHT20) (Ch 36)
Band Edge (Peak), Horizontal



TX, 802.11ac(VHT20) (Ch 36)
Band Edge (Peak), Vertical



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Mode	802.11ac(VHT20)	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		5064.4	30.37	19.35	49.72	54	-4.28	AVG
		5068.6	42.2	19.36	61.56	74	-12.44	PK
	@	5220	79.43	19.33	98.76	N/A	N/A	PK
	@	5220	69.74	19.33	89.07	N/A	N/A	AVG
		10440	29.98	17.63	47.61	68.2	-20.59	PK
Vertical		5098.7	30.2	19.46	49.66	54	-4.34	AVG
		5129.5	36.6	19.44	56.04	74	-17.96	PK
	@	5220	82.58	19.33	101.91	N/A	N/A	PK
	@	5220	78.96	19.33	98.29	N/A	N/A	AVG
		10440	30.66	17.63	48.29	68.2	-19.91	PK

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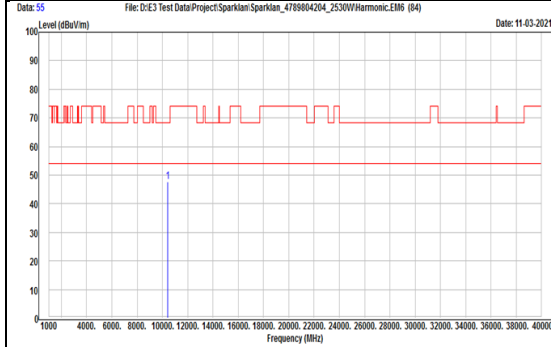
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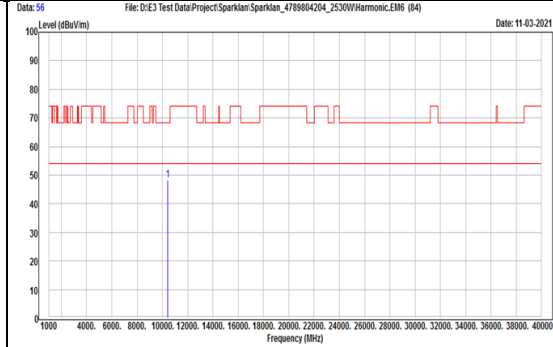


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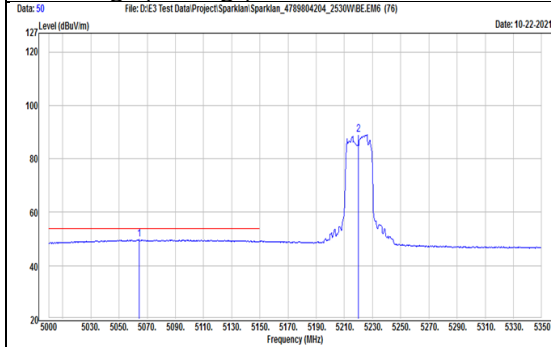
TX, 802.11ac(VHT20) (Ch 44)
Radiated Spurious Emission, Horizontal



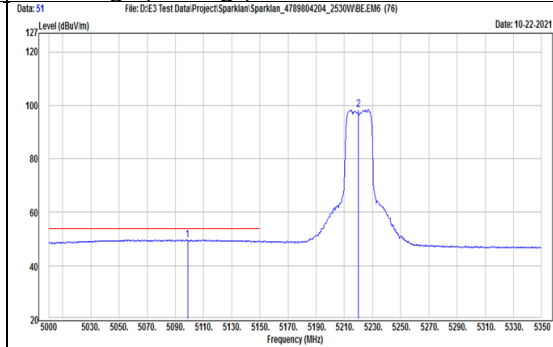
TX, 802.11ac(VHT20) (Ch 44)
Radiated Spurious Emission, Vertical



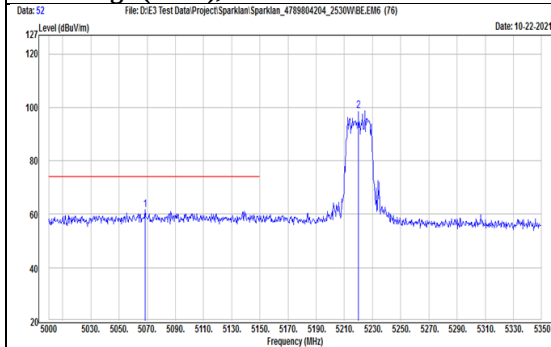
TX, 802.11ac(VHT20) (Ch 44)
Band Edge (Average), Horizontal



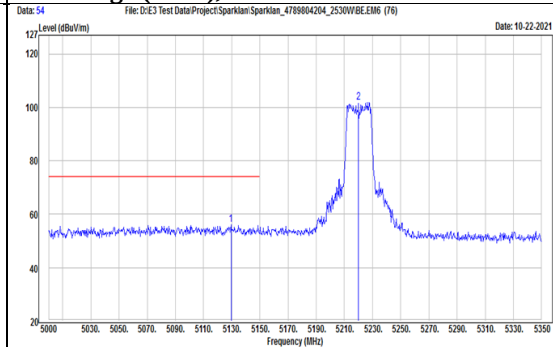
TX, 802.11ac(VHT20) (Ch 44)
Band Edge (Average), Vertical



TX, 802.11ac(VHT20) (Ch 44)
Band Edge (Peak), Horizontal



TX, 802.11ac(VHT20) (Ch 44)
Band Edge (Peak), Vertical



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Mode	802.11ac(VHT20)	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		5128.45	30.22	19.43	49.65	54	-4.35	AVG
		5131.95	41.47	19.44	60.91	74	-13.09	PK
	@	5240	77.26	19.27	96.53	N/A	N/A	PK
	@	5240	69.92	19.27	89.19	N/A	N/A	AVG
		10480	30.4	17.69	48.09	68.2	-20.11	PK
Vertical		5059.15	37.01	19.33	56.34	74	-17.66	PK
		5060.9	30.35	19.33	49.68	54	-4.32	AVG
	@	5240	81.94	19.27	101.21	N/A	N/A	PK
	@	5240	79.46	19.27	98.73	N/A	N/A	AVG
		10480	29.95	17.69	47.64	68.2	-20.56	PK

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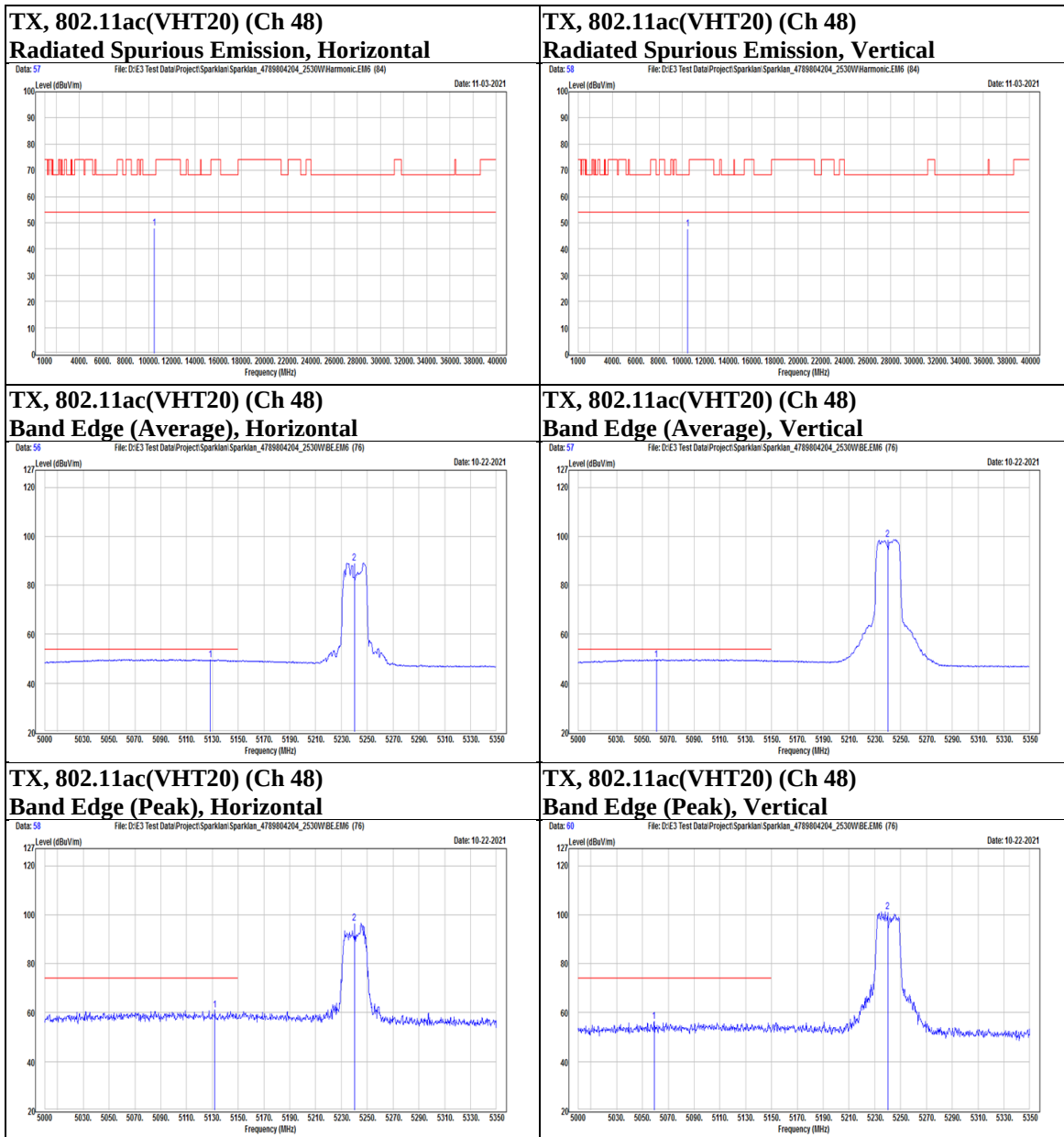
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Mode	802.11ac(VHT20)	Channel	149
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5572.5	40.78	19.95	60.73	68.2	-7.47	PK
		5661.5	41.19	20.01	61.2	76.74	-15.54	PK
	@	5745	78.42	20.28	98.7	N/A	N/A	PK
	*	11490	29.48	19.02	48.5	74	-25.5	PK
Vertical		5603.5	40.96	20.03	60.99	68.2	-7.21	PK
		5683	42.29	20.03	62.32	92.66	-30.34	PK
	@	5745	92.99	20.28	113.27	N/A	N/A	PK
	*	11490	29.09	19.02	48.11	74	-25.89	PK

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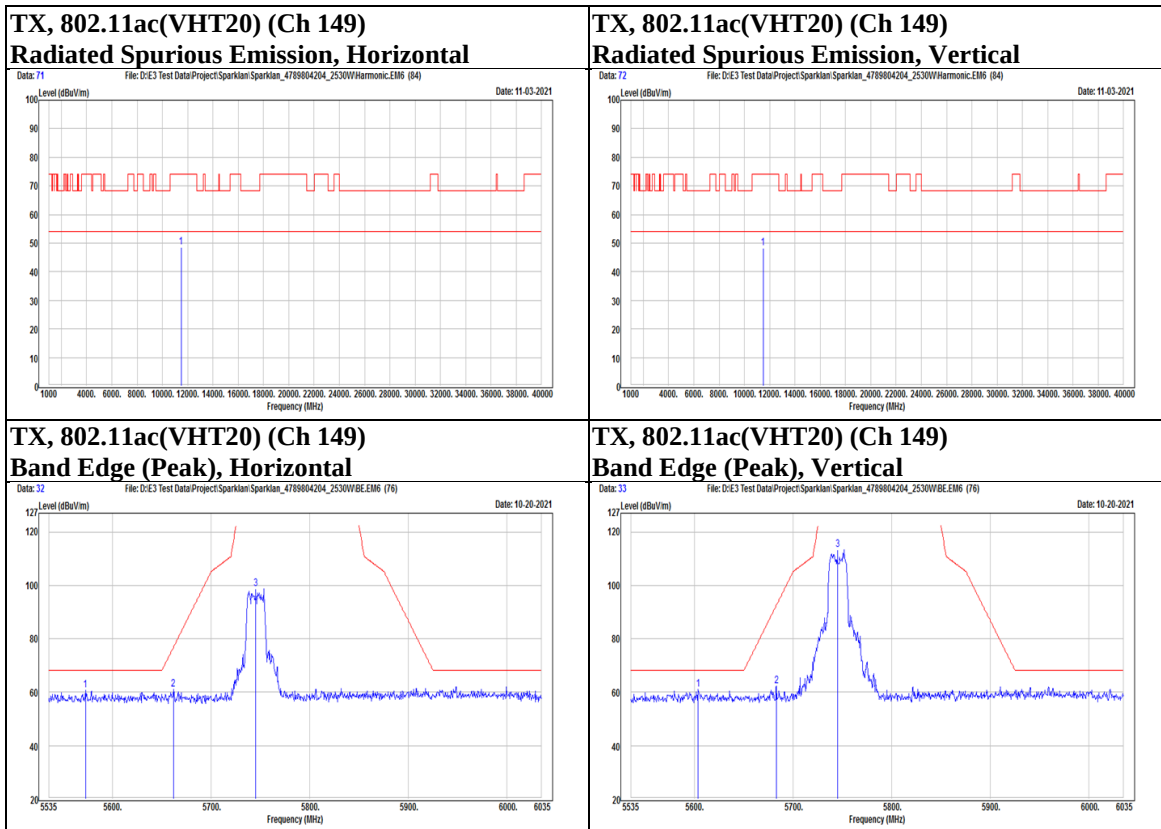
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Mode	802.11ac(VHT20)	Channel	157
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5565	40.57	19.93	60.5	68.2	-7.7	PK
		5686.5	40.68	20.04	60.72	95.24	-34.52	PK
	@	5785	76.17	20.48	96.65	N/A	N/A	PK
		5916	40.61	20.98	61.59	74.84	-13.25	PK
		5965	40.24	21.07	61.31	68.2	-6.89	PK
	*	11570	29.62	18.88	48.5	74	-25.5	PK
Vertical		5597	41.54	20.02	61.56	68.2	-6.64	PK
		5670	40.83	20.02	60.85	83.04	-22.19	PK
	@	5785	90	20.48	110.48	N/A	N/A	PK
		5893.5	40.07	20.95	61.02	91.47	-30.45	PK
		5951.5	40.94	21.02	61.96	68.2	-6.24	PK
	*	11570	28.65	18.88	47.53	74	-26.47	PK

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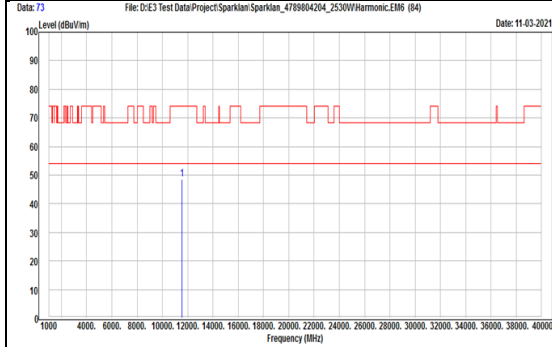
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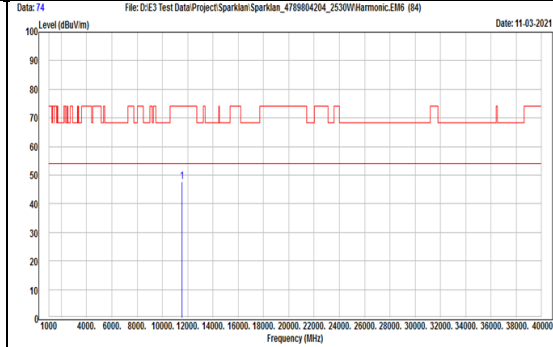


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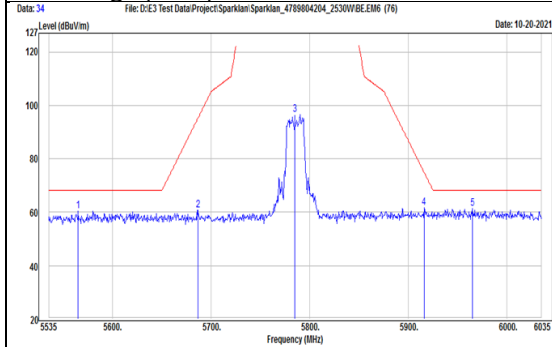
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Radiated Spurious Emission, Horizontal



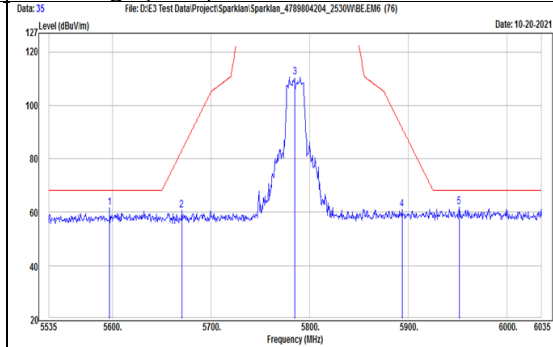
TX, 802.11ac(VHT20) (Ch 157)
Radiated Spurious Emission, Vertical



TX, 802.11ac(VHT20) (Ch 157)
Band Edge (Peak), Horizontal



TX, 802.11ac(VHT20) (Ch 157)
Band Edge (Peak), Vertical



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Mode	802.11ac(VHT20)	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	@	5825	75.73	20.69	96.42	N/A	N/A	PK
		5897	41.1	20.96	62.06	88.88	-26.82	PK
		5950	39.8	21.02	60.82	68.2	-7.38	PK
	*	11650	29.39	18.63	48.02	74	-25.98	PK
Vertical	@	5825	89.67	20.69	110.36	N/A	N/A	PK
		5908.5	40.43	20.97	61.4	80.38	-18.98	PK
		5942	40.41	21.01	61.42	68.2	-6.78	PK
	*	11650	28.52	18.63	47.15	74	-26.85	PK

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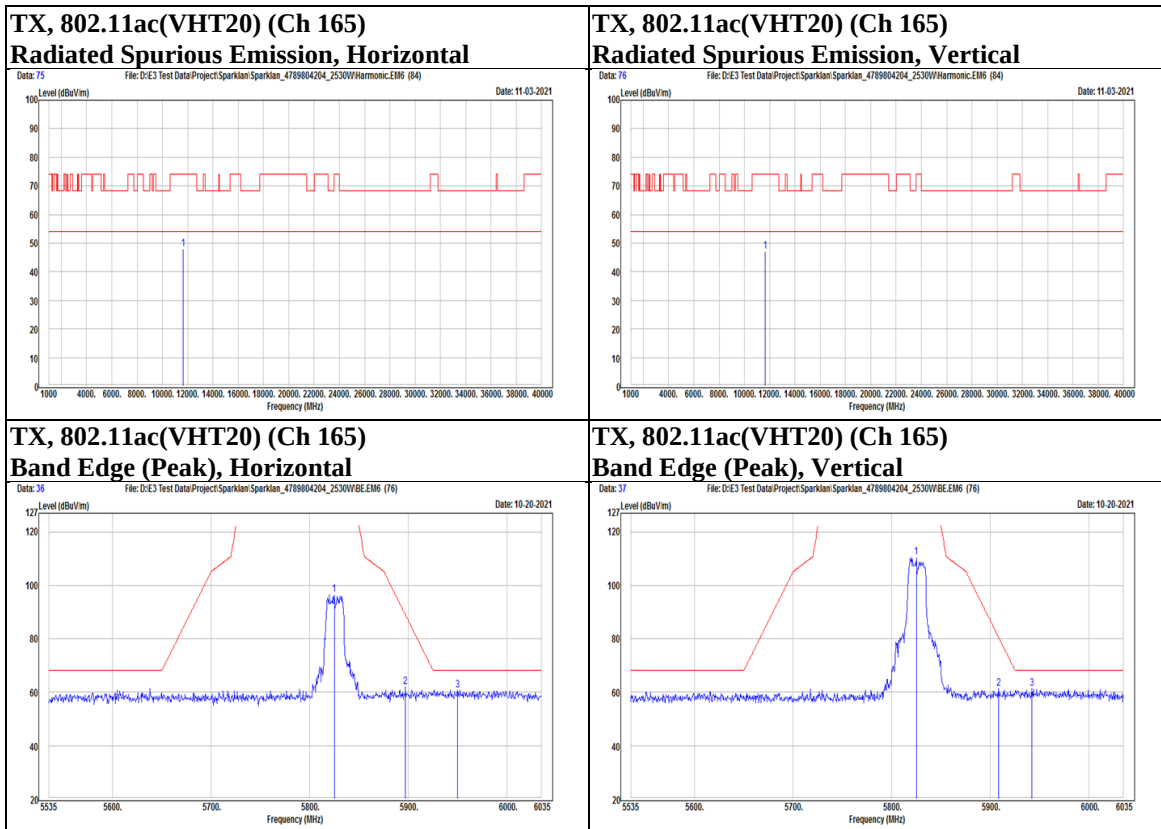
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Mode	802.11ac(VHT40)	Channel	38
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5105.35	41.88	19.46	61.34	74	-12.66	PK
		5149.45	31.41	19.43	50.84	54	-3.16	AVG
	@	5190	75.4	19.4	94.8	N/A	N/A	PK
	@	5190	65.99	19.4	85.39	N/A	N/A	AVG
		10380	30.1	17.49	47.59	68.2	-20.61	PK
Vertical		5149.45	34.3	19.43	53.73	54	-0.27	AVG
		5149.8	43.42	19.43	62.85	74	-11.15	PK
	@	5190	83.32	19.4	102.72	N/A	N/A	PK
	@	5190	74.22	19.4	93.62	N/A	N/A	AVG
		10380	31.81	17.49	49.3	68.2	-18.9	PK

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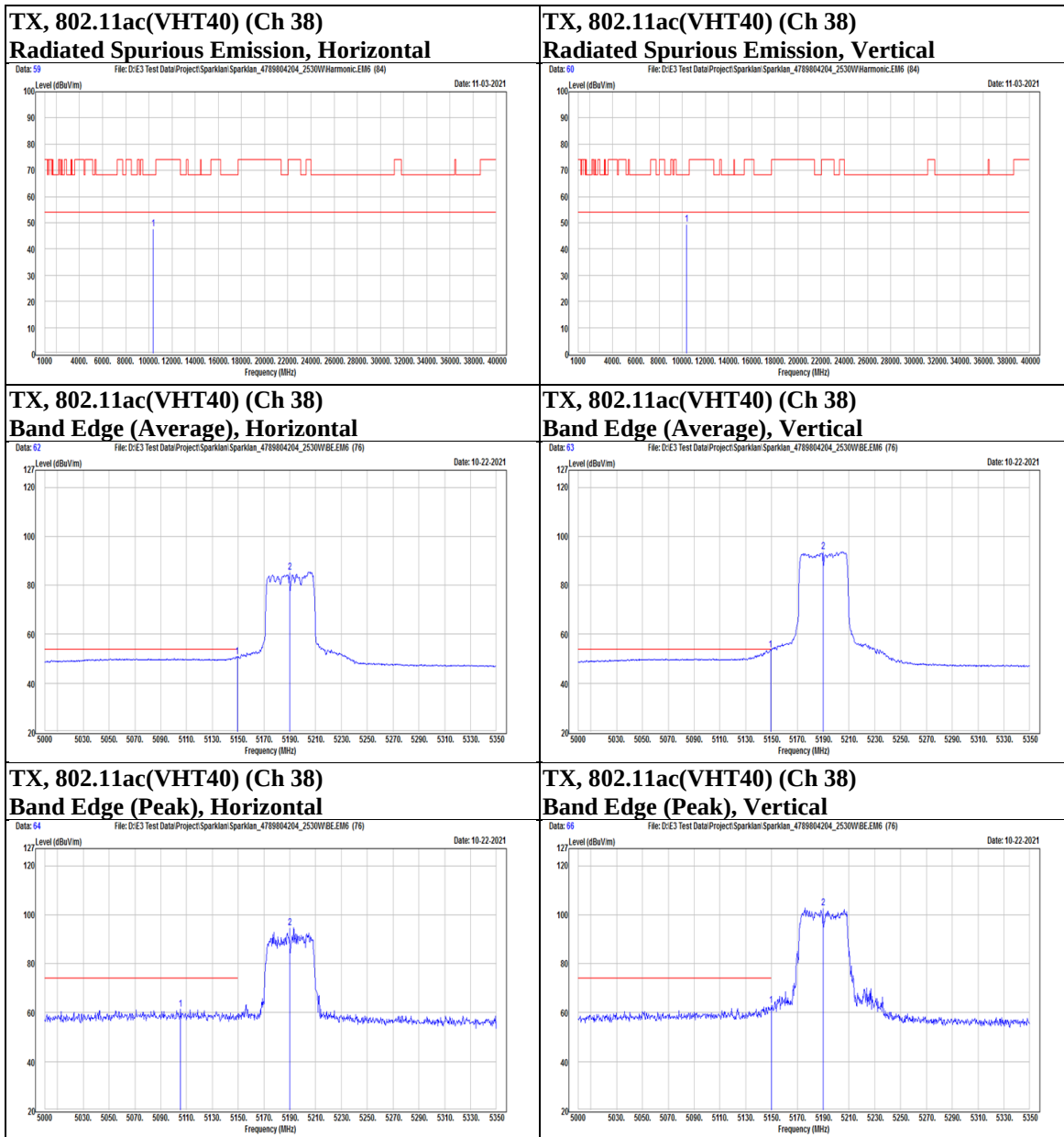
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Mode	802.11ac(VHT40)	Channel	46
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5080.85	30.55	19.4	49.95	54	-4.05	AVG
		5101.85	41.62	19.46	61.08	74	-12.92	PK
	@	5230	79.52	19.3	98.82	N/A	N/A	PK
	@	5230	67.77	19.3	87.07	N/A	N/A	AVG
		10460	31.66	17.66	49.32	68.2	-18.88	PK
Vertical		5020.3	43.05	18.96	62.01	74	-11.99	PK
		5116.55	30.47	19.46	49.93	54	-4.07	AVG
	@	5230	87.92	19.3	107.22	N/A	N/A	PK
	@	5230	77.1	19.3	96.4	N/A	N/A	AVG
		10460	30.22	17.66	47.88	68.2	-20.32	PK

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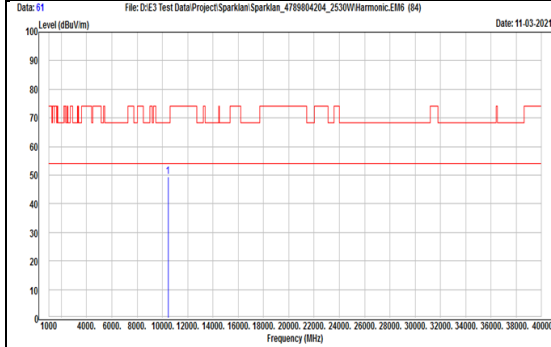
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Doc No: 17-EM-F0878 / 6.0

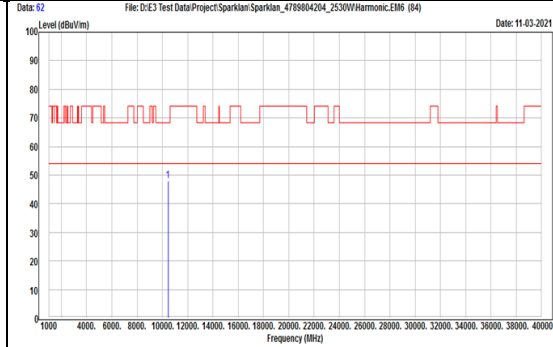


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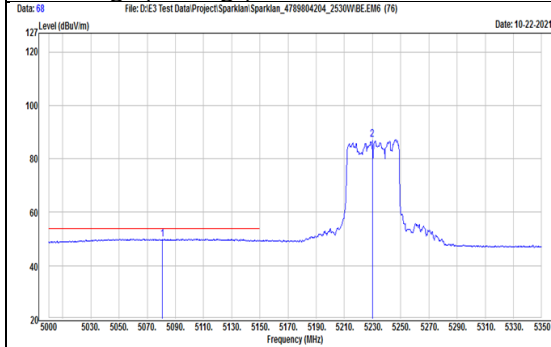
TX, 802.11ac(VHT40) (Ch 46)
Radiated Spurious Emission, Horizontal



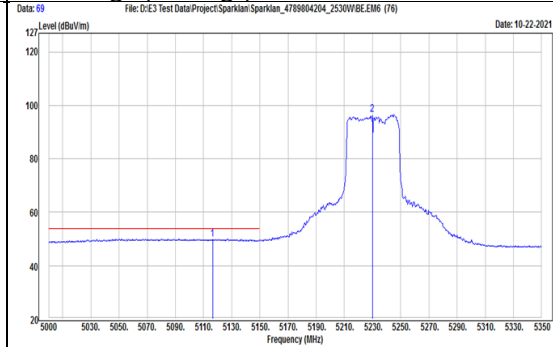
TX, 802.11ac(VHT40) (Ch 46)
Radiated Spurious Emission, Vertical



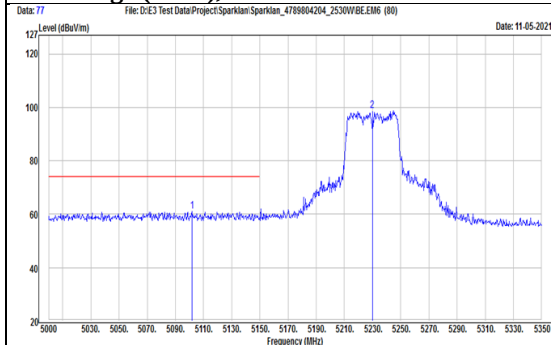
TX, 802.11ac(VHT40) (Ch 46)
Band Edge (Average), Horizontal



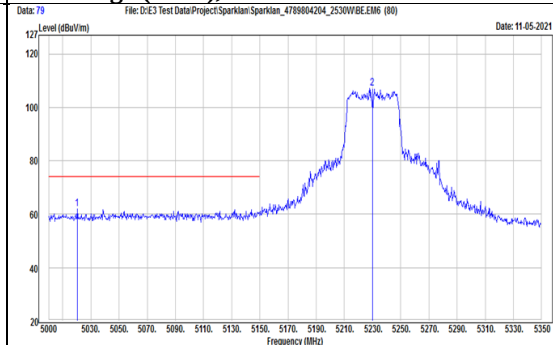
TX, 802.11ac(VHT40) (Ch 46)
Band Edge (Average), Vertical



TX, 802.11ac(VHT40) (Ch 46)
Band Edge (Peak), Horizontal



TX, 802.11ac(VHT40) (Ch 46)
Band Edge (Peak), Vertical



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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		5631	40.65	20.02	60.67	68.2	-7.53	PK
		5671.5	39.49	20.02	59.51	84.15	-24.64	PK
	@	5755	74.39	20.33	94.72	N/A	N/A	PK
	*	11510	29.12	19.03	48.15	74	-25.85	PK
Vertical		5598.5	40.14	20.04	60.18	68.2	-8.02	PK
		5693.5	43.62	20.05	63.67	100.41	-36.74	PK
	@	5755	88.76	20.33	109.09	N/A	N/A	PK
	*	11510	29.81	19.03	48.84	74	-25.16	PK

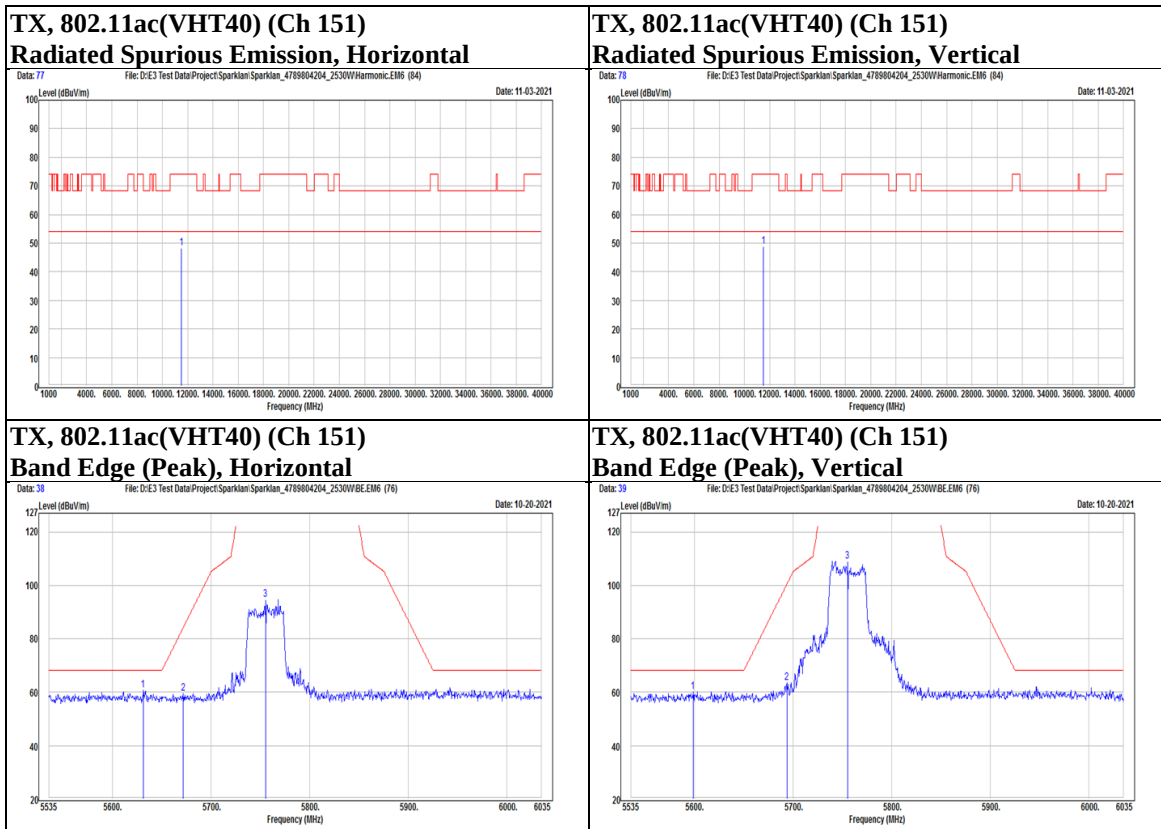
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Mode	802.11ac(VHT40)	Channel	159
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5795	76.55	20.53	97.08	N/A	N/A	PK
		5889.5	40.34	20.94	61.28	94.44	-33.16	PK
		5979.5	41.06	21.11	62.17	68.2	-6.03	PK
	*	11590	29.02	18.84	47.86	74	-26.14	PK
Vertical	@	5795	86.97	20.53	107.5	N/A	N/A	PK
		5907	40.28	20.97	61.25	81.48	-20.23	PK
		5970.5	39.98	21.07	61.05	68.2	-7.15	PK
	*	11590	27.11	18.84	45.95	74	-28.05	PK

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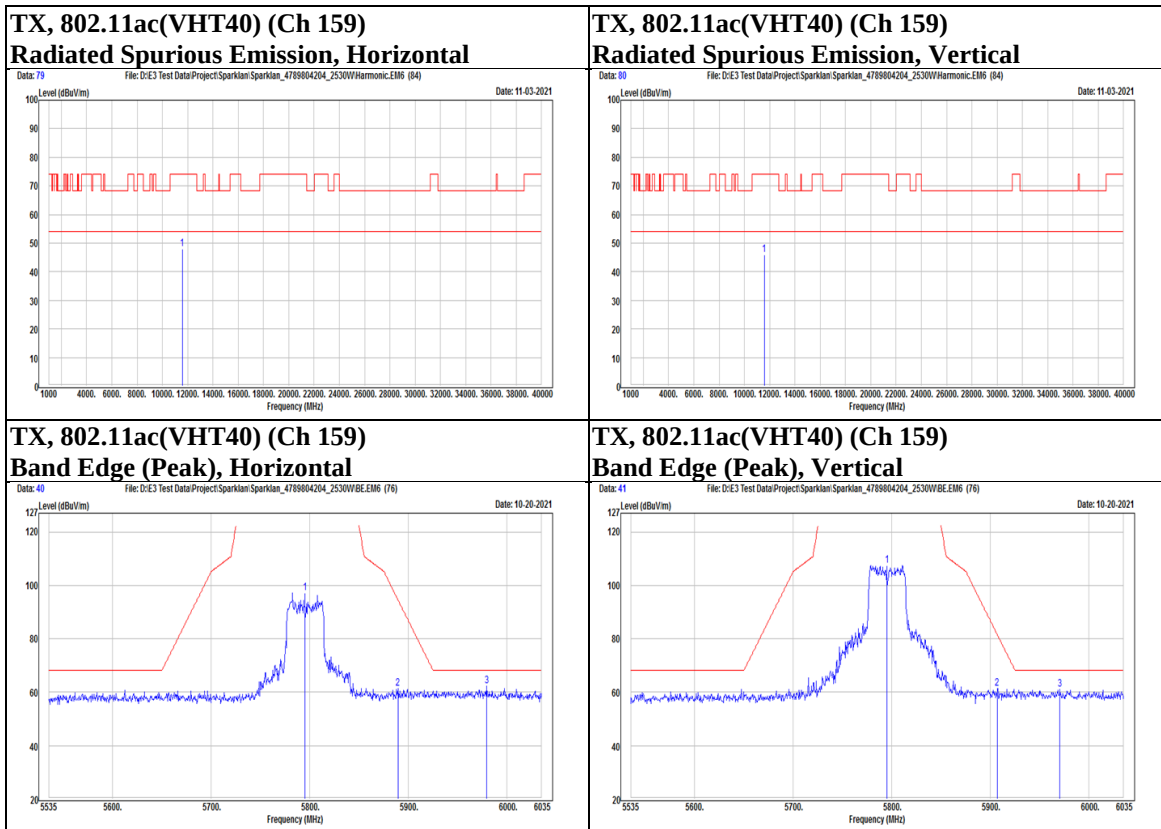
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Mode	802.11ac(VHT80)	Channel	42
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5005.25	42.05	18.8	60.85	74	-13.15	PK
		5070.35	31.3	19.37	50.67	54	-3.33	AVG
	@	5210	67.59	19.36	86.95	N/A	N/A	PK
	@	5210	59.33	19.36	78.69	N/A	N/A	AVG
		10420	30.21	17.6	47.81	68.2	-20.39	PK
Vertical		5149.45	33.05	19.43	52.48	54	-1.52	AVG
		5149.8	43.46	19.43	62.89	74	-11.11	PK
	@	5210	79.79	19.36	99.15	N/A	N/A	PK
	@	5210	69.5	19.36	88.86	N/A	N/A	AVG
		10420	29.98	17.6	47.58	68.2	-20.62	PK

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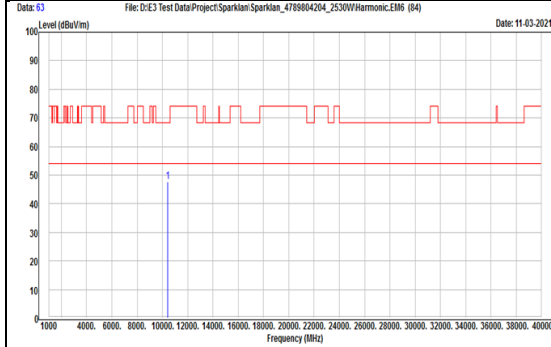
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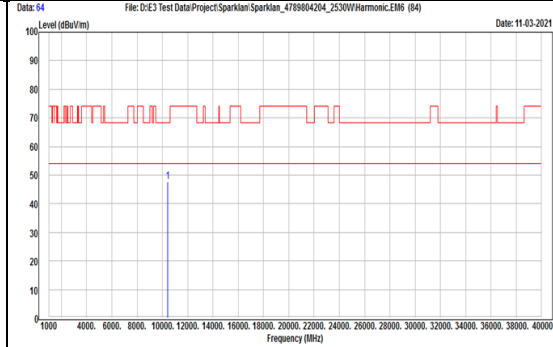
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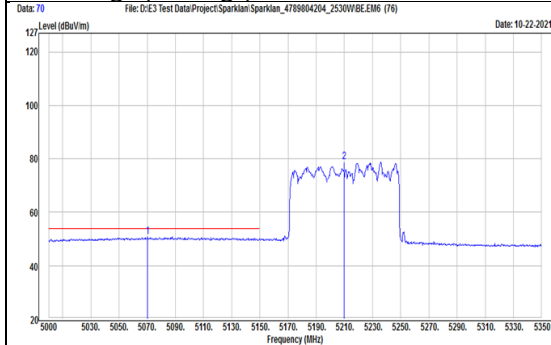
TX, 802.11ac(VHT80) (Ch 42)
Radiated Spurious Emission, Horizontal



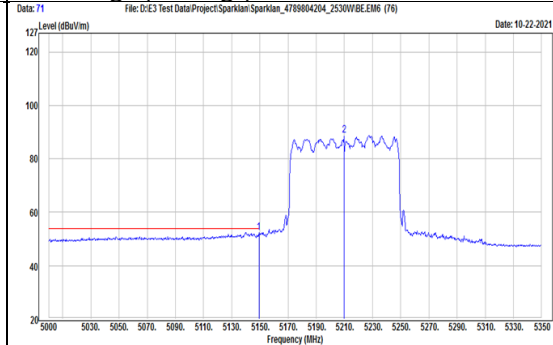
TX, 802.11ac(VHT80) (Ch 42)
Radiated Spurious Emission, Vertical



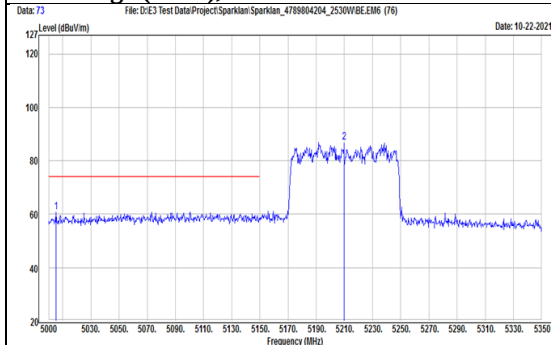
TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Average), Horizontal



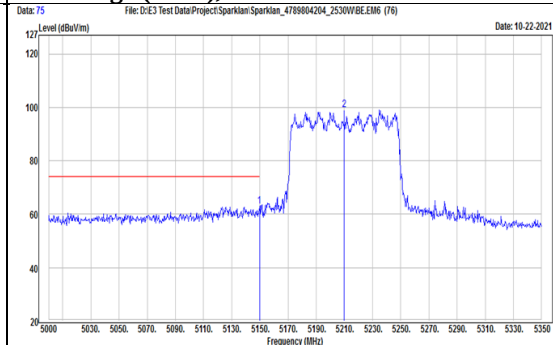
TX, 802.11ac(VHT80) (Ch 42)
Band Edge (Average), Vertical



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



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





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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		5602	40.45	20.04	60.49	68.2	-7.71	PK
		5680	46.9	20.03	66.93	90.44	-23.51	PK
	@	5775	71.66	20.44	92.1	N/A	N/A	PK
		5881	40.93	20.91	61.84	100.74	-38.9	PK
		5934.5	40.7	21	61.7	68.2	-6.5	PK
	*	11550	30.82	18.93	49.75	74	-24.25	PK
Vertical		5641.5	47.61	20.01	67.62	68.2	-0.58	PK
		5693.5	60.15	20.05	80.2	100.41	-20.21	PK
	@	5775	86.2	20.44	106.64	N/A	N/A	PK
		5875	48.74	20.89	69.63	105.2	-35.57	PK
		5927	41.03	20.99	62.02	68.2	-6.18	PK
	*	11550	28.93	18.93	47.86	74	-26.14	PK

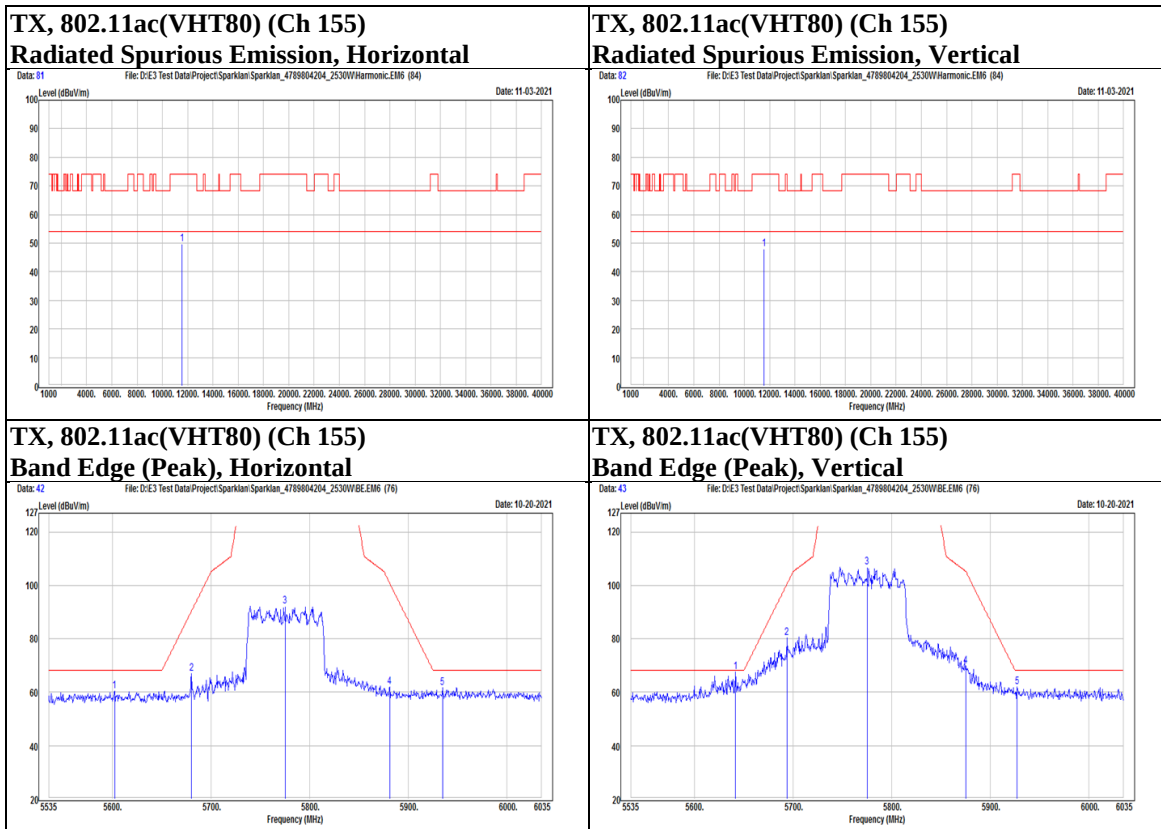
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Below 1 GHz

Mode	802.11ac40	Channel	38
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		107.6	49.79	-15.24	34.55	43.5	-8.95	PK
		153.19	45.82	-11.34	34.48	43.5	-9.02	PK
		215.27	54.7	-13.29	41.41	43.5	-2.09	PK
		245.34	55.1	-11.96	43.14	46	-2.86	PK
		297.72	52.73	-10.03	42.7	46	-3.3	PK
		482.02	40.83	-5.1	35.73	46	-10.27	PK
Vertical		60.07	38.46	-11.77	26.69	40	-13.31	PK
		107.6	48.29	-15.24	33.05	43.5	-10.45	PK
		192.96	53.01	-13.36	39.65	43.5	-3.85	PK
		254.07	51.04	-11.66	39.38	46	-6.62	PK
		285.11	50.08	-10.41	39.67	46	-6.33	PK
		482.02	41.09	-5.1	35.99	46	-10.01	PK

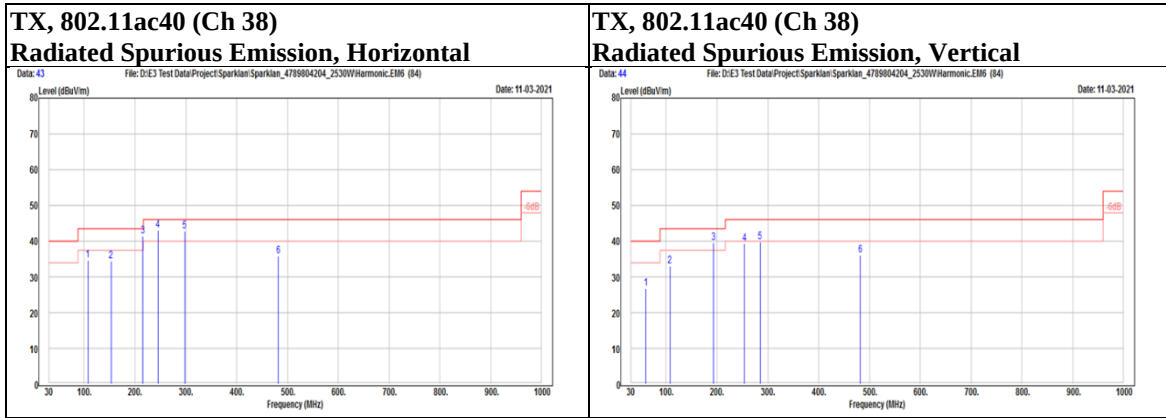
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9.8. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ 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).

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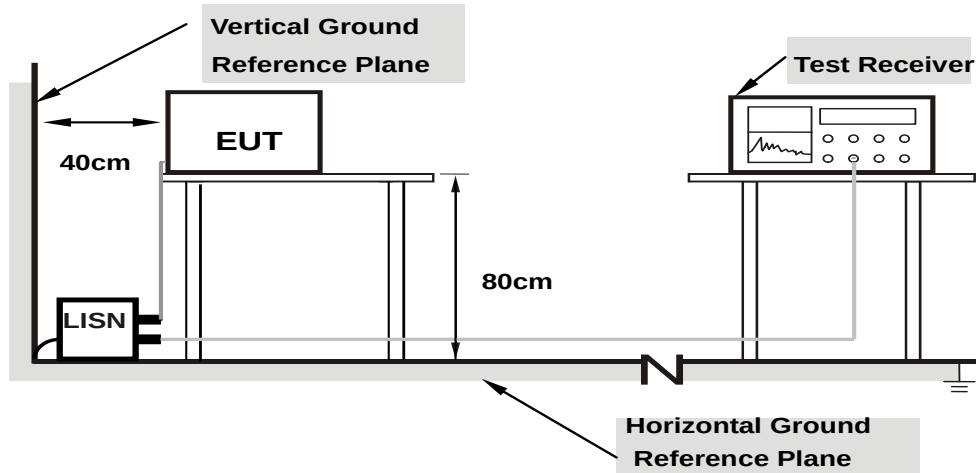
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Test Setup



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

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

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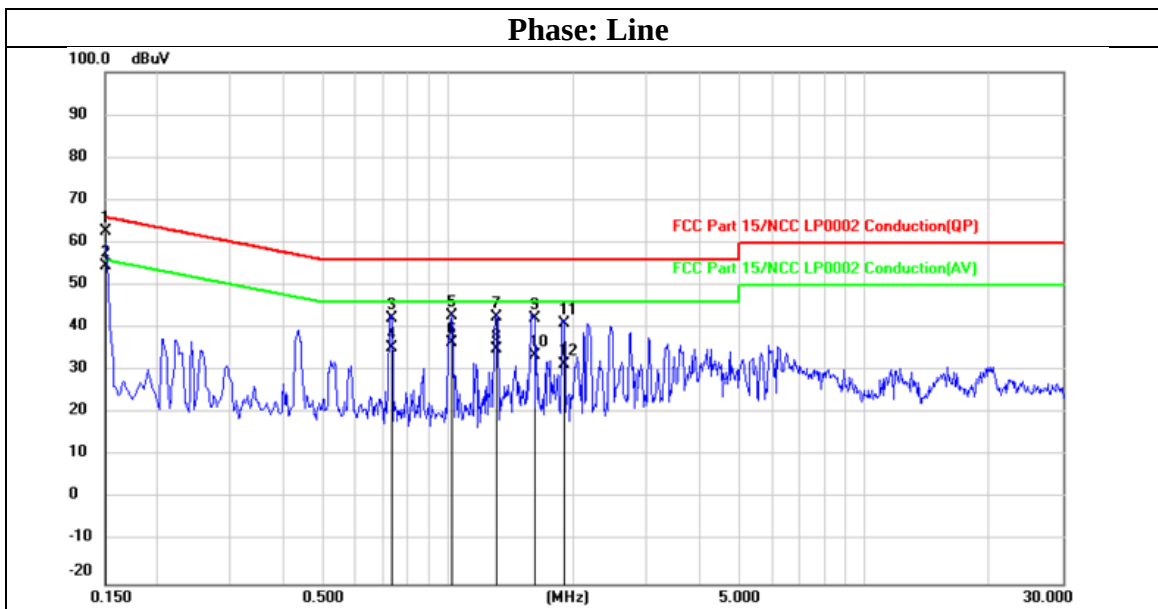
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Test Data

Mode	802.11ac40	Channel	38
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1505	43.13	19.49	62.62	65.97	-3.35	QP
2	0.1505	35.20	19.49	54.69	55.97	-1.28	AVG
3	0.7332	22.79	19.51	42.30	56.00	-13.70	QP
4	0.7332	15.81	19.51	35.32	46.00	-10.68	AVG
5	1.0221	23.34	19.51	42.85	56.00	-13.15	QP
6	1.0221	17.11	19.51	36.62	46.00	-9.38	AVG
7	1.3153	22.97	19.51	42.48	56.00	-13.52	QP
8	1.3153	15.42	19.51	34.93	46.00	-11.07	AVG
9	1.6088	22.59	19.53	42.12	56.00	-13.88	QP
10	1.6088	13.93	19.53	33.46	46.00	-12.54	AVG
11	1.9017	21.38	19.53	40.91	56.00	-15.09	QP
12	1.9017	11.91	19.53	31.44	46.00	-14.56	AVG

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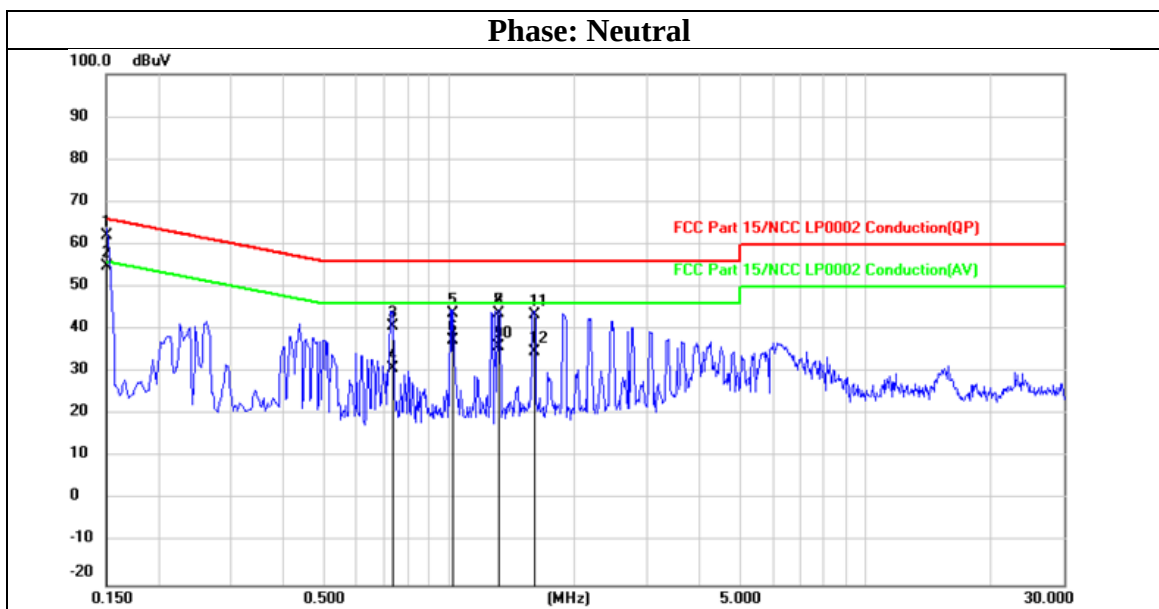
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Mode	802.11ac40	Channel	38
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1510	42.45	19.49	61.94	65.94	-4.00	QP
2	0.1510	35.43	19.49	54.92	55.94	-1.02	AVG
3	0.7372	21.16	19.50	40.66	56.00	-15.34	QP
4	0.7372	11.25	19.50	30.75	46.00	-15.25	AVG
5	1.0232	24.31	19.50	43.81	56.00	-12.19	QP
6	1.0232	18.08	19.50	37.58	46.00	-8.42	AVG
7	1.3169	24.21	19.50	43.71	56.00	-12.29	QP
8	1.3169	24.22	19.50	43.72	56.00	-12.28	QP
9	1.3169	16.49	19.50	35.99	46.00	-10.01	AVG
10	1.3169	16.53	19.50	36.03	46.00	-9.97	AVG
11	1.6104	23.79	19.52	43.31	56.00	-12.69	QP
12	1.6104	15.11	19.52	34.63	46.00	-11.37	AVG

END OF REPORT

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