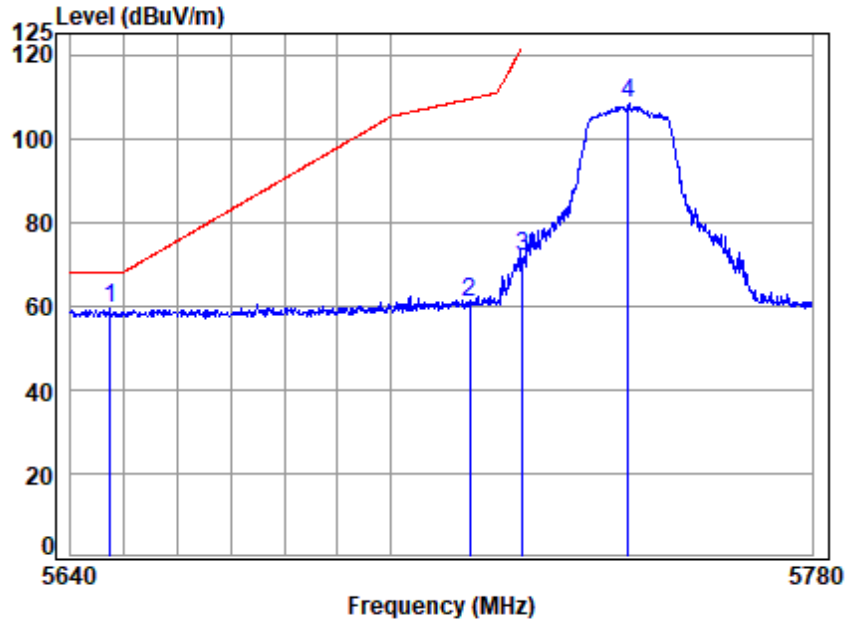


Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11A

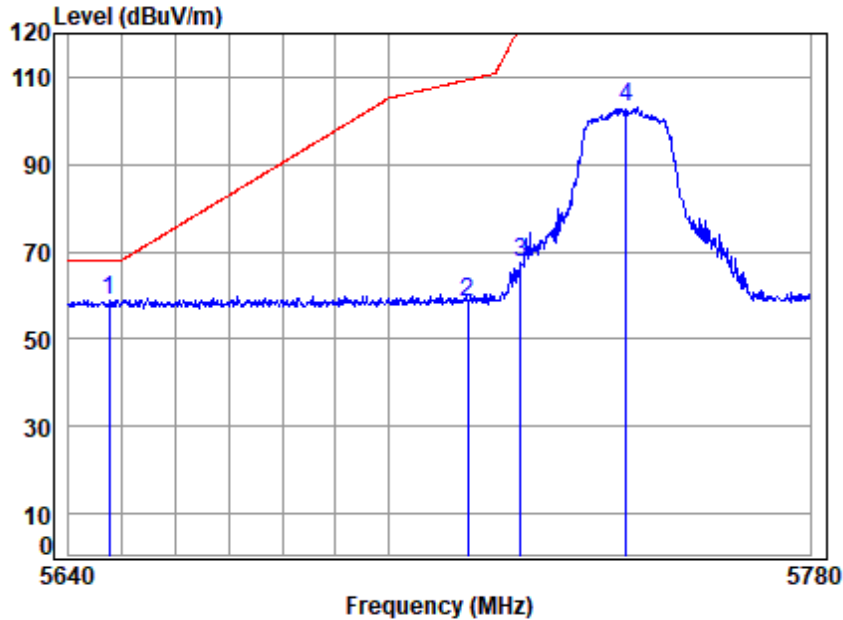
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5647.334	10.48	33.09	30.64	46.57	59.50	68.20	-8.70	peak
2	5715.000	10.63	33.23	30.61	47.67	60.92	109.40	-48.48	peak
3	5725.000	10.68	33.25	30.61	58.42	71.74	122.20	-50.46	peak
4	5745.000	10.77	33.29	30.60	94.81	108.27	-----	-----	peak



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Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11A

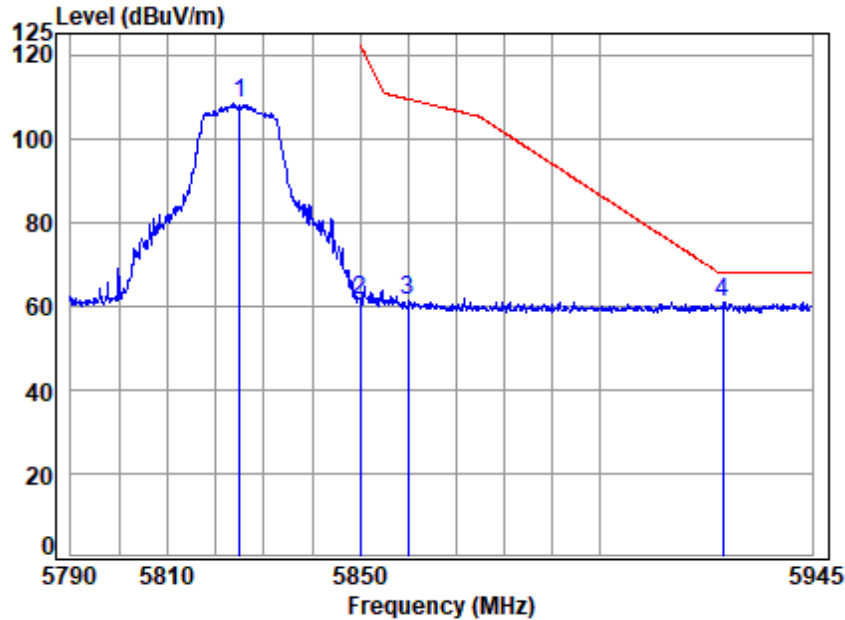
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5647.611	10.48	33.10	30.64	46.07	59.01	68.20	-9.19 peak
2	5715.000	10.63	33.23	30.61	45.27	58.52	109.40	-50.88 peak
3	5725.000	10.68	33.25	30.61	54.01	67.33	122.20	-54.87 peak
4	5745.000	10.77	33.29	30.60	89.66	103.12	-----	----- peak



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Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

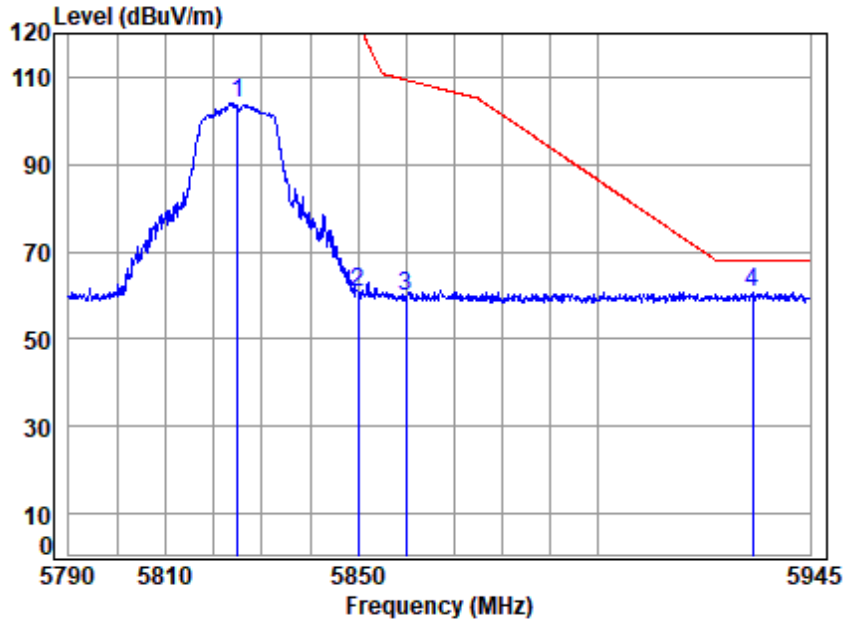
Mode : 5825 Band edge

: 5.8G Wi-Fi 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	94.27	108.19	-----	-----	peak
2	5850.000	10.95	33.60	30.56	47.35	61.34	122.20	-60.86	peak
3	5860.000	10.94	33.58	30.56	47.20	61.16	109.40	-48.24	peak
4 pp	5926.183	10.87	33.55	30.53	47.12	61.01	68.20	-7.19	peak



Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11A

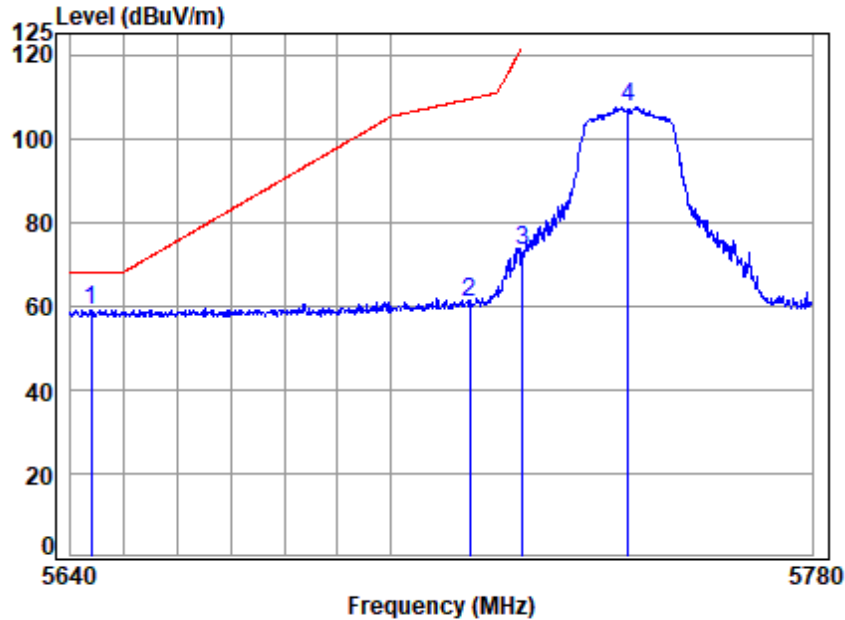
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	90.00	103.92	-----	-----	peak
2	5850.000	10.95	33.60	30.56	46.57	60.56	122.20	-61.64	peak
3	5860.000	10.94	33.58	30.56	45.68	59.64	109.40	-49.76	peak
4 pp	5932.762	10.86	33.57	30.53	46.86	60.76	68.20	-7.44	peak



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Test Mode: 18; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11AC20

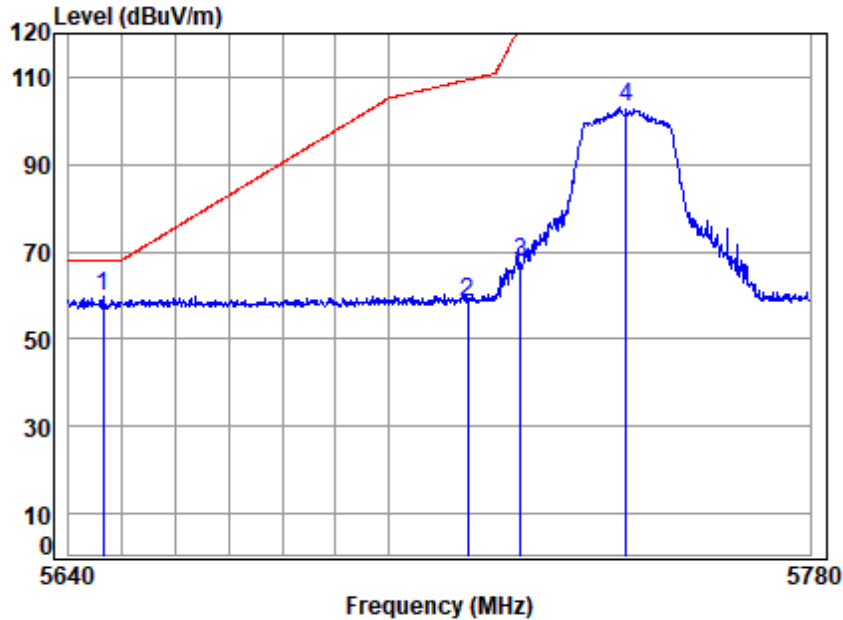
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.874	10.48	33.09	30.64	46.11	59.04	68.20	-9.16	peak
2	5715.000	10.63	33.23	30.61	47.37	60.62	109.40	-48.78	peak
3	5725.000	10.68	33.25	30.61	59.95	73.27	122.20	-48.93	peak
4	5745.000	10.77	33.29	30.60	93.99	107.45	-----	-----	peak



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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11AC20

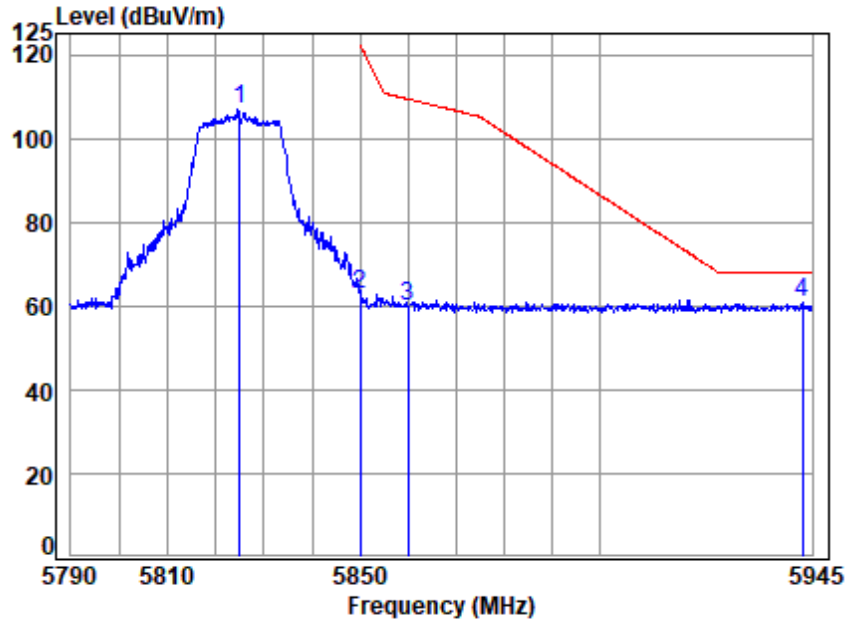
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5646.365	10.48	33.09	30.64	46.80	59.73	68.20	-8.47 peak
2	5715.000	10.63	33.23	30.61	45.33	58.58	109.40	-50.82 peak
3	5725.000	10.68	33.25	30.61	54.31	67.63	122.20	-54.57 peak
4	5745.000	10.77	33.29	30.60	89.62	103.08	-----	----- peak



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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11AC20

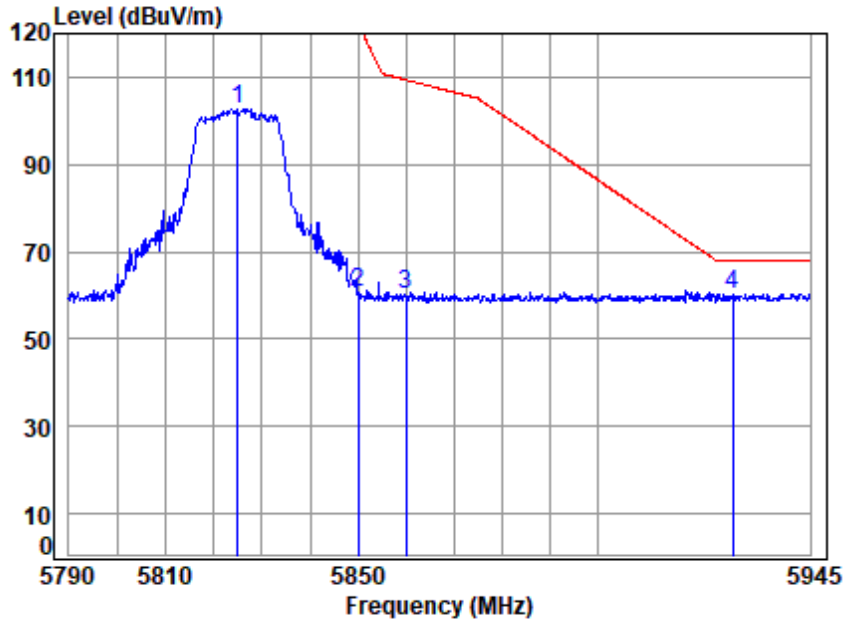
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	93.08	107.00	-----	-----	peak
2	5850.000	10.95	33.60	30.56	48.51	62.50	122.20	-59.70	peak
3	5860.000	10.94	33.58	30.56	46.06	60.02	109.40	-49.38	peak
4 pp	5942.958	10.86	33.59	30.52	46.77	60.70	68.20	-7.50	peak



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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	88.96	102.88	-----	-----	peak
2	5850.000	10.95	33.60	30.56	46.76	60.75	122.20	-61.45	peak
3	5860.000	10.94	33.58	30.56	46.18	60.14	109.40	-49.26	peak
4 pp	5928.688	10.87	33.56	30.53	46.53	60.43	68.20	-7.77	peak



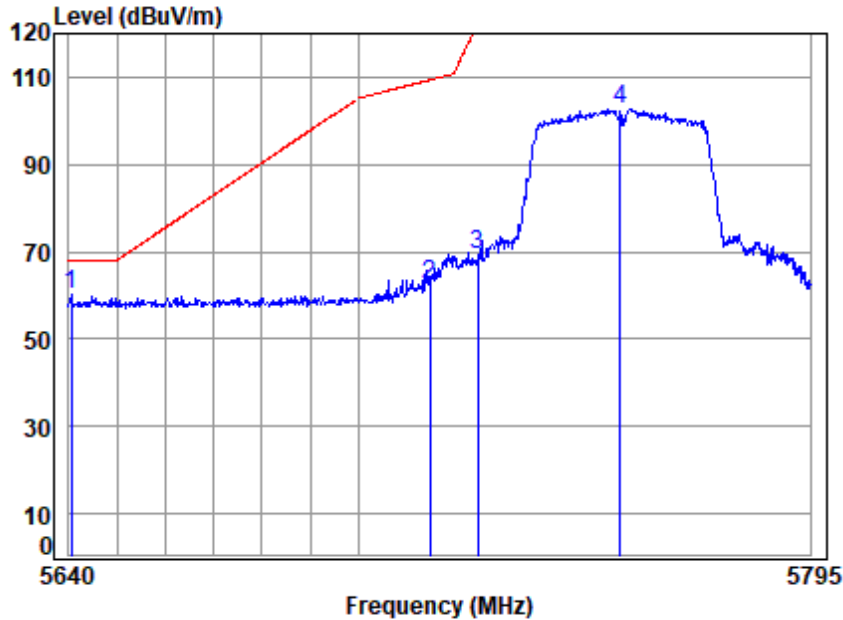
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439006

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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.459	10.47	33.08	30.64	47.17	60.08	68.20	-8.12	peak
2	5715.000	10.63	33.23	30.61	49.16	62.41	109.40	-46.99	peak
3	5725.000	10.68	33.25	30.61	56.06	69.38	122.20	-52.82	peak
4	5755.000	10.81	33.31	30.60	89.17	102.69	-----	-----	peak



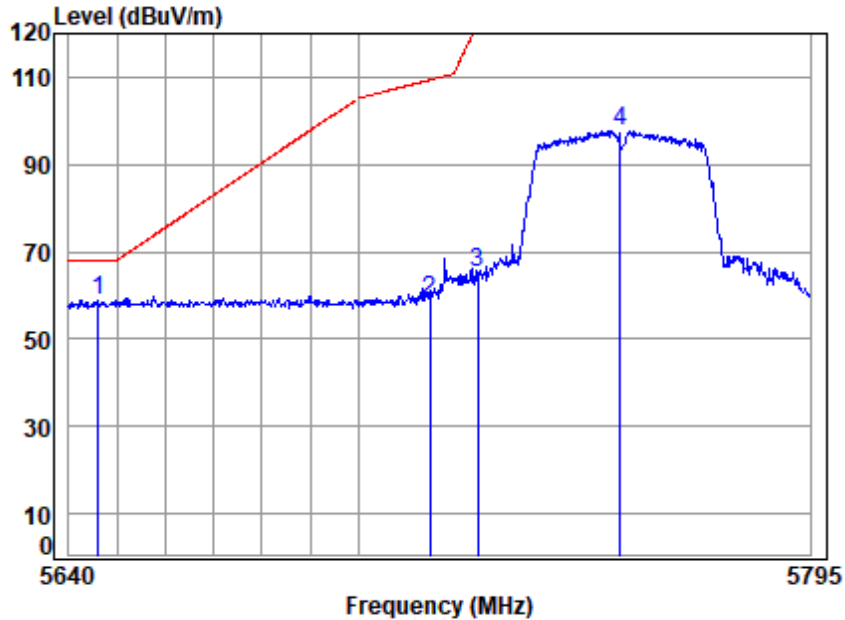
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11AC40

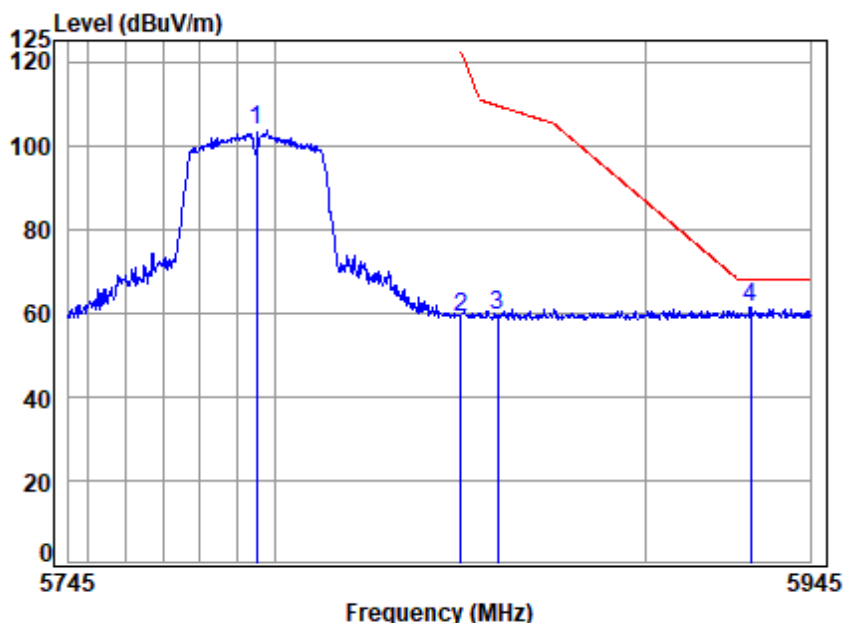
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5646.120	10.48	33.09	30.64	46.07	59.00	68.20	-9.20 peak
2	5715.000	10.63	33.23	30.61	45.79	59.04	109.40	-50.36 peak
3	5725.000	10.68	33.25	30.61	51.99	65.31	122.20	-56.89 peak
4	5755.000	10.81	33.31	30.60	84.24	97.76	-----	----- peak



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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11AC40

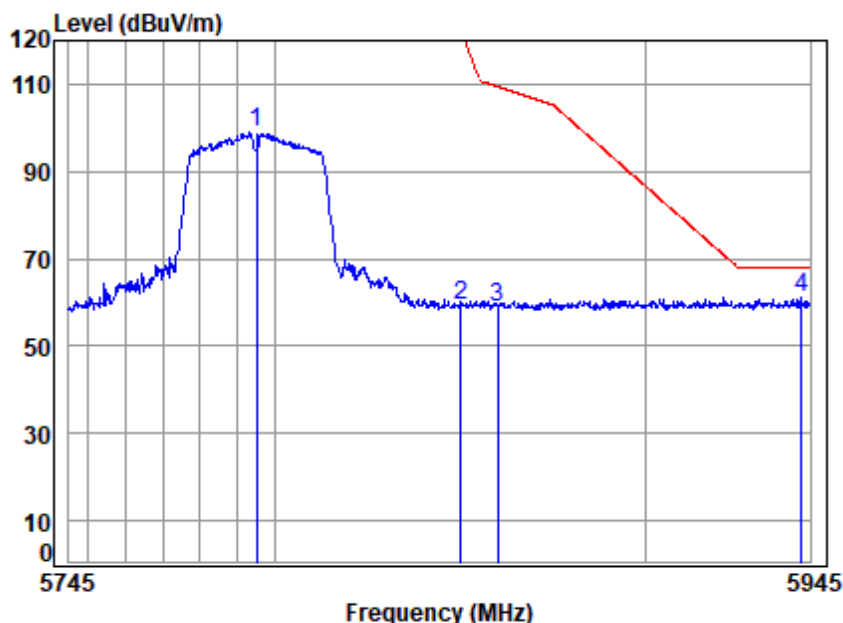
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	89.58	103.39	-----	-----	peak
2	5850.000	10.95	33.60	30.56	44.91	58.90	122.20	-63.30	peak
3	5860.000	10.94	33.58	30.56	45.43	59.39	109.40	-50.01	peak
4 pp	5928.747	10.87	33.56	30.53	47.55	61.45	68.20	-6.75	peak



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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11AC40

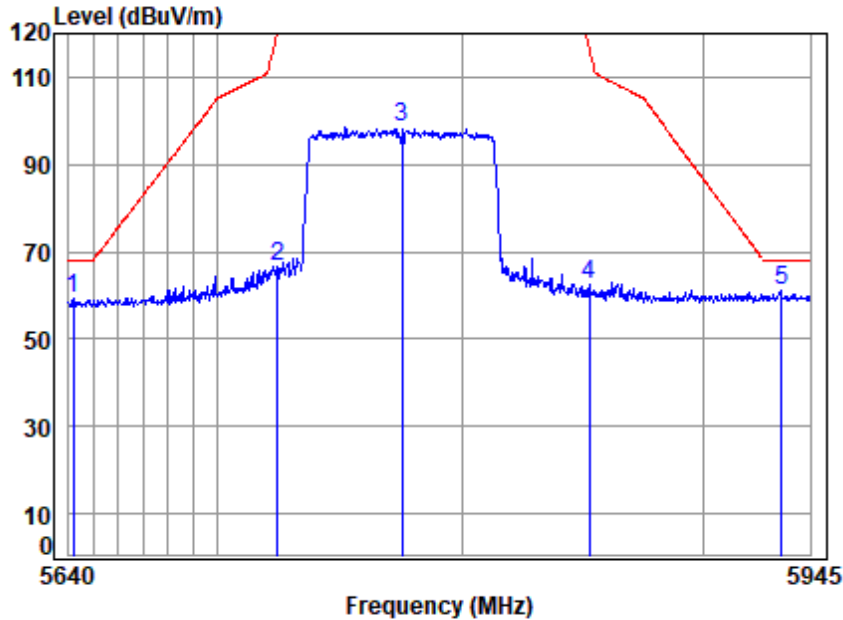
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	85.21	99.02	-----	-----	peak
2	5850.000	10.95	33.60	30.56	45.15	59.14	122.20	-63.06	peak
3	5860.000	10.94	33.58	30.56	45.07	59.03	109.40	-50.37	peak
4 pp	5942.559	10.86	33.59	30.52	47.01	60.94	68.20	-7.26	peak



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Test Mode: 18; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5641.783	10.47	33.08	30.64	46.36	59.27	68.20	-8.93	Peak
2	5724.088	10.67	33.25	30.61	53.24	66.55	120.12	-53.57	peak
3	5775.000	10.91	33.35	30.59	84.74	98.41	-----	-----	peak
4	5852.424	10.95	33.60	30.56	48.58	62.57	116.67	-54.10	peak
5 pp	5932.802	10.86	33.57	30.53	47.03	60.93	68.20	-7.27	peak



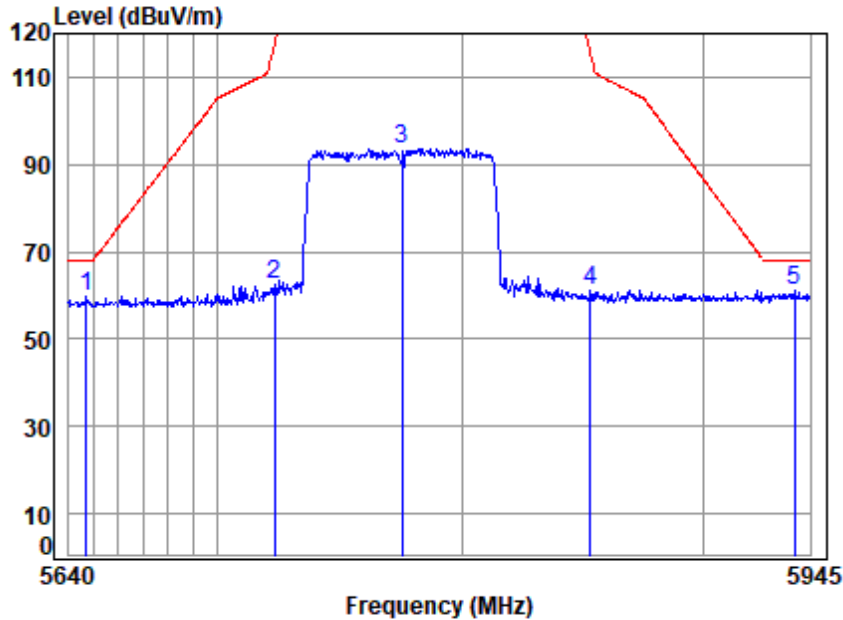
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251000439006

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Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5647.133	10.48	33.09	30.64	46.69	59.62	68.20	-8.58	Peak
2	5723.184	10.67	33.25	30.61	49.15	62.46	118.06	-55.60	peak
3	5775.000	10.91	33.35	30.59	80.04	93.71	-----	-----	peak
4	5853.041	10.95	33.59	30.56	47.21	61.19	115.27	-54.08	peak
5 pp	5938.429	10.86	33.58	30.52	47.28	61.20	68.20	-7.00	peak



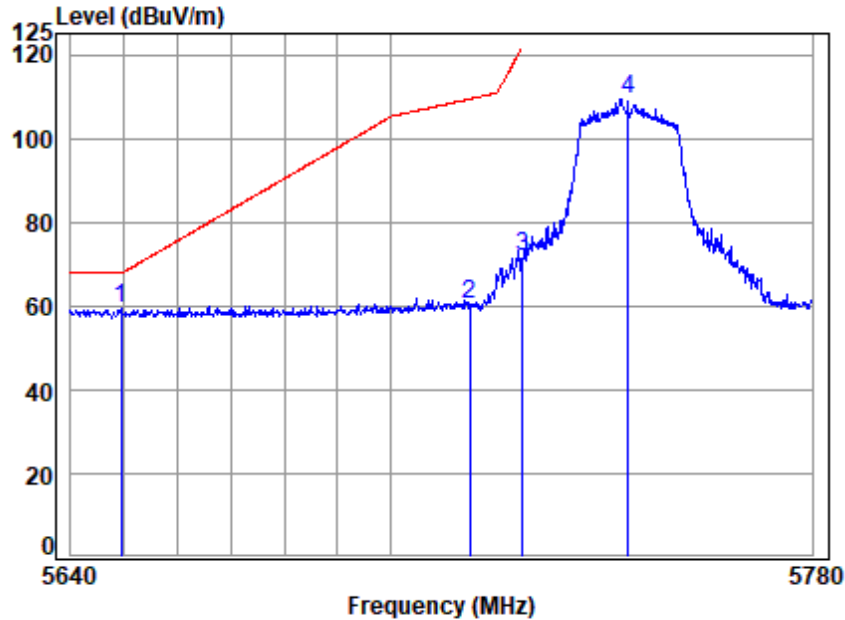
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5649.412	10.48	33.10	30.64	46.57	59.51	68.20	-8.69	peak
2 5715.000	10.63	33.23	30.61	47.31	60.56	109.40	-48.84	peak
3 5725.000	10.68	33.25	30.61	58.53	71.85	122.20	-50.35	peak
4 5745.000	10.77	33.29	30.60	95.80	109.26	-----	-----	peak



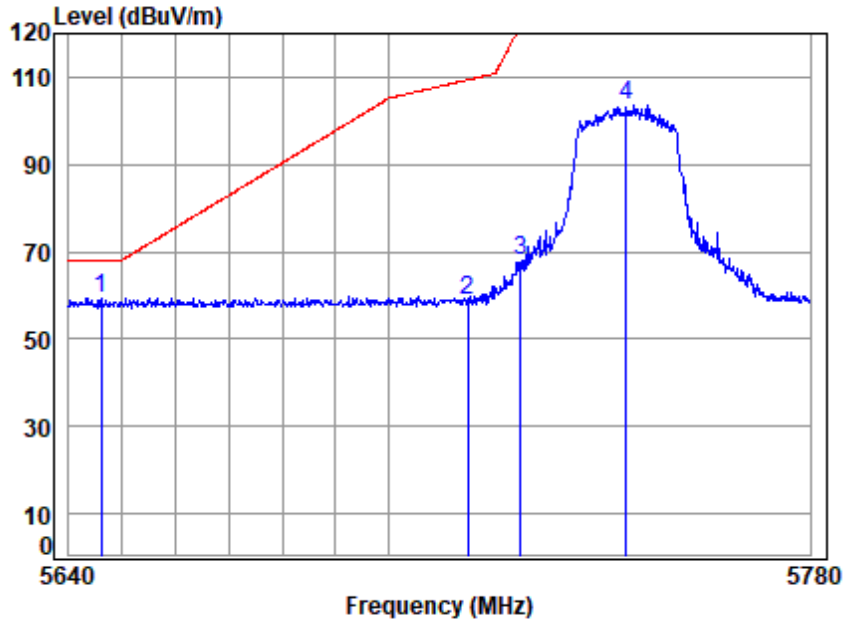
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5646.088	10.48	33.09	30.64	46.52	59.45	68.20	-8.75 peak
2	5715.000	10.63	33.23	30.61	45.83	59.08	109.40	-50.32 peak
3	5725.000	10.68	33.25	30.61	54.58	67.90	122.20	-54.30 peak
4	5745.000	10.77	33.29	30.60	90.11	103.57	-----	----- peak



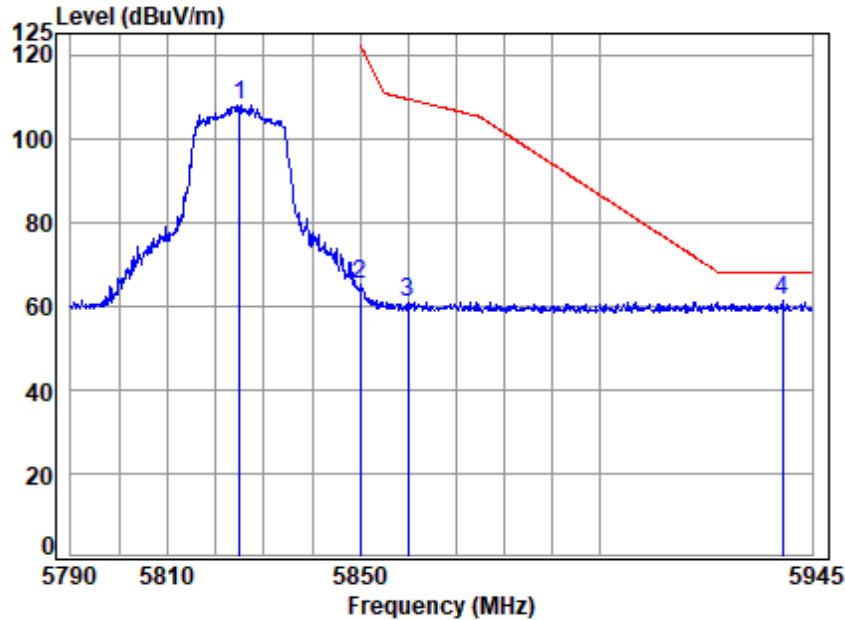
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	93.95	107.87	-----	-----	peak
2	5850.000	10.95	33.60	30.56	51.18	65.17	122.20	-57.03	peak
3	5860.000	10.94	33.58	30.56	46.85	60.81	109.40	-48.59	peak
4 pp	5938.721	10.86	33.58	30.52	47.24	61.16	68.20	-7.04	peak



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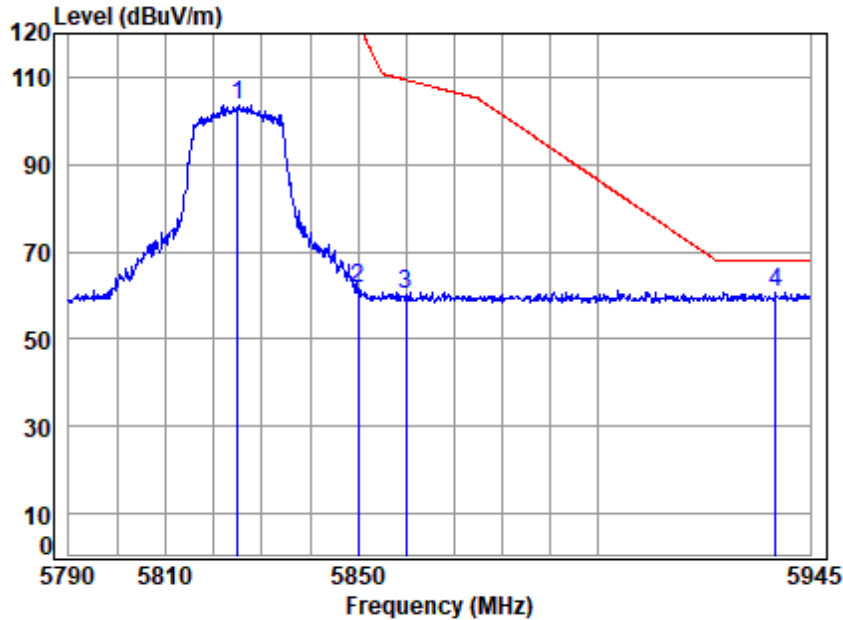
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	89.66	103.58	-----	-----	peak
2	5850.000	10.95	33.60	30.56	47.77	61.76	122.20	-60.44	peak
3	5860.000	10.94	33.58	30.56	46.21	60.17	109.40	-49.23	peak
4 pp	5937.623	10.86	33.58	30.52	46.89	60.81	68.20	-7.39	peak



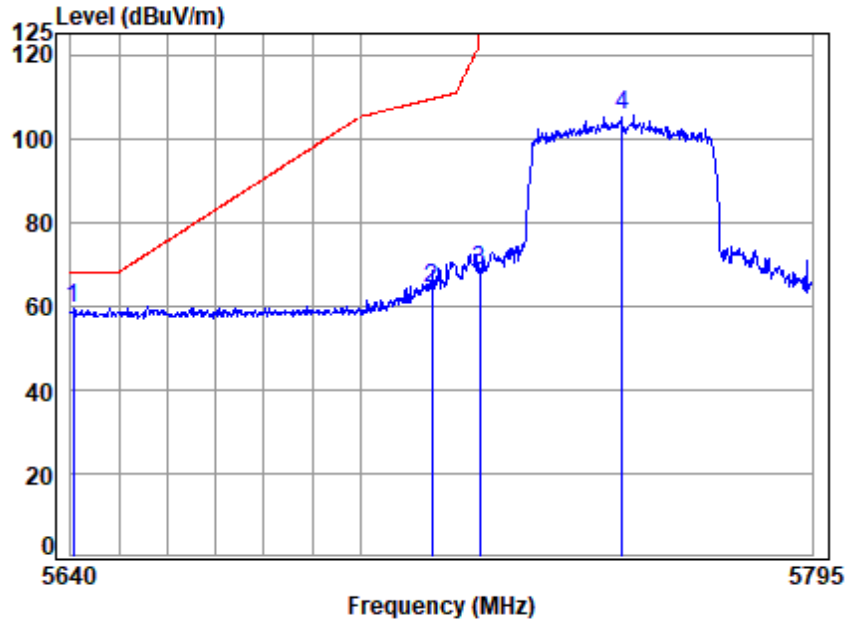
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.612	10.47	33.08	30.64	46.65	59.56	68.20	-8.64	peak
2	5715.000	10.63	33.23	30.61	50.99	64.24	109.40	-45.16	peak
3	5725.000	10.68	33.25	30.61	54.95	68.27	122.20	-53.93	peak
4	5755.000	10.81	33.31	30.60	91.88	105.40	-----	-----	peak



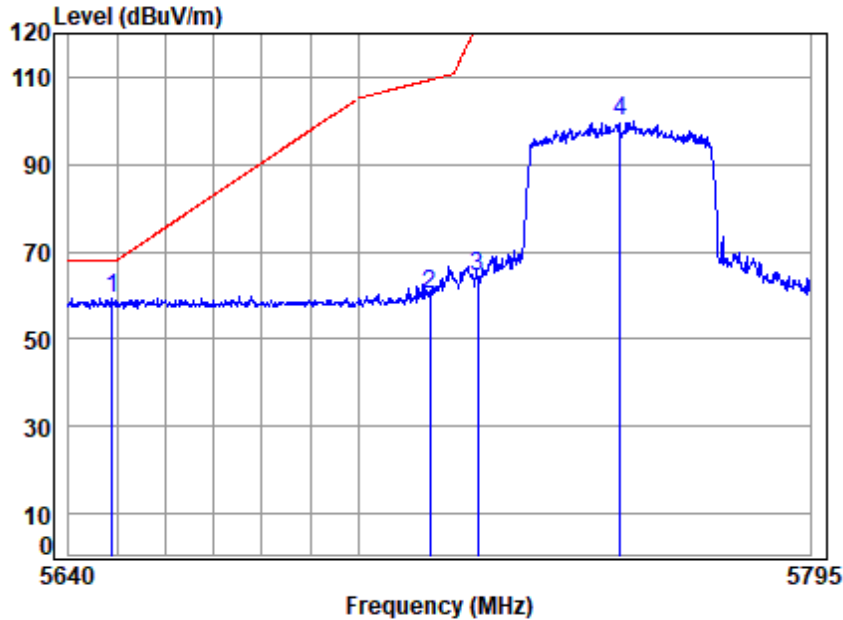
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5648.875	10.48	33.10	30.64	46.34	59.28	68.20	-8.92 peak
2	5715.000	10.63	33.23	30.61	47.00	60.25	109.40	-49.15 peak
3	5725.000	10.68	33.25	30.61	51.05	64.37	122.20	-57.83 peak
4	5755.000	10.81	33.31	30.60	86.47	99.99	-----	----- peak



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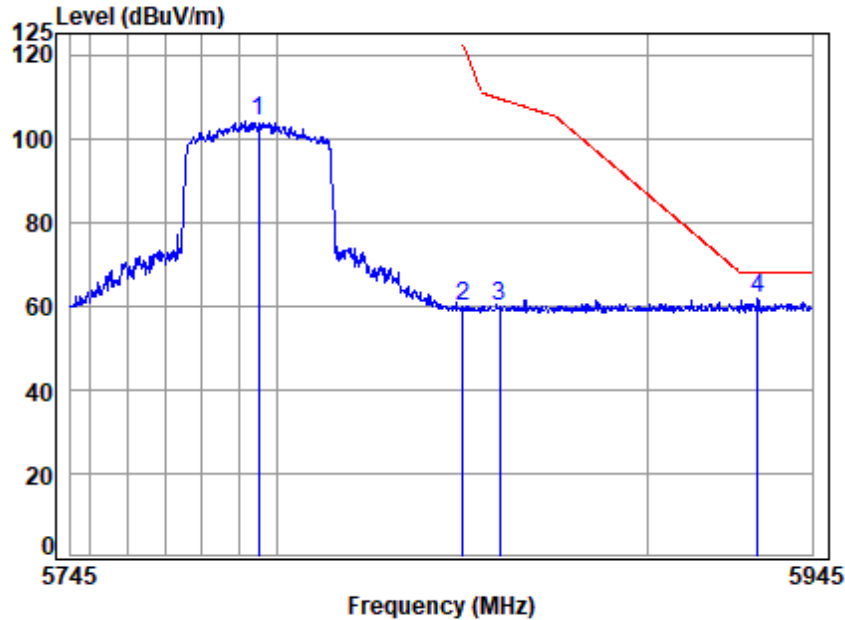
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	90.08	103.89	-----	-----	peak
2	5850.000	10.95	33.60	30.56	45.71	59.70	122.20	-62.50	peak
3	5860.000	10.94	33.58	30.56	45.70	59.66	109.40	-49.74	peak
4 pp	5930.167	10.87	33.56	30.53	47.67	61.57	68.20	-6.63	peak



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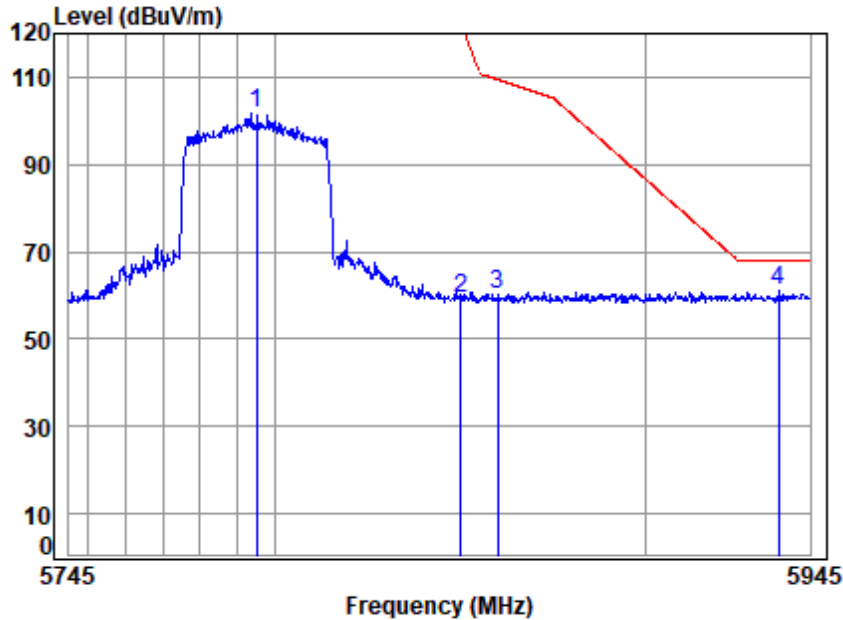
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	87.82	101.63	-----	-----	peak
2	5850.000	10.95	33.60	30.56	45.26	59.25	122.20	-62.95	peak
3	5860.000	10.94	33.58	30.56	46.31	60.27	109.40	-49.13	peak
4 pp	5936.258	10.86	33.57	30.53	47.13	61.03	68.20	-7.17	peak



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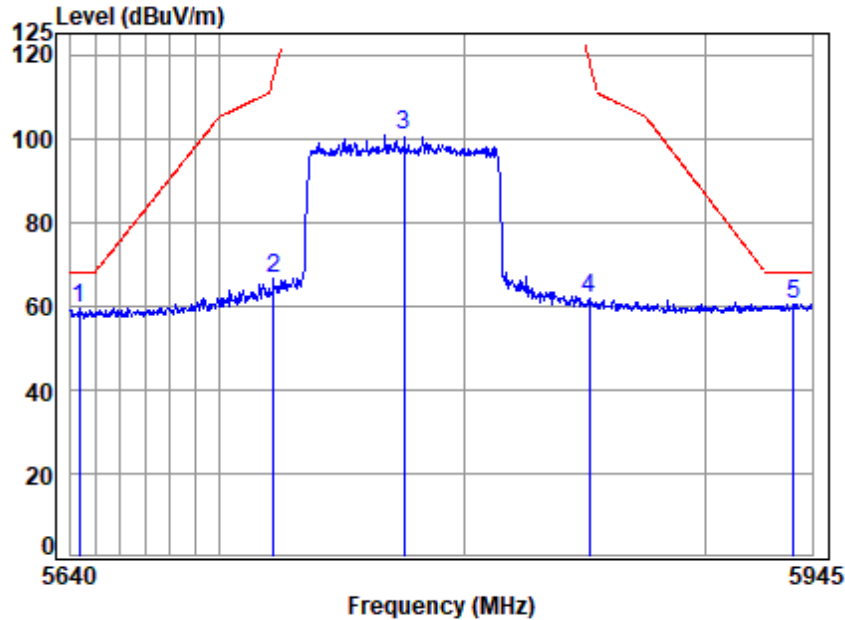
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04390WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5643.269	10.48	33.09	30.64	46.27	59.20	68.20	-9.00	Peak
2	5721.677	10.66	33.24	30.61	53.07	66.36	114.62	-48.26	peak
3	5775.000	10.91	33.35	30.59	87.11	100.78	-----	-----	peak
4	5851.500	10.95	33.60	30.56	47.61	61.60	118.78	-57.18	peak
5 pp	5937.178	10.86	33.57	30.53	46.62	60.52	68.20	-7.68	peak



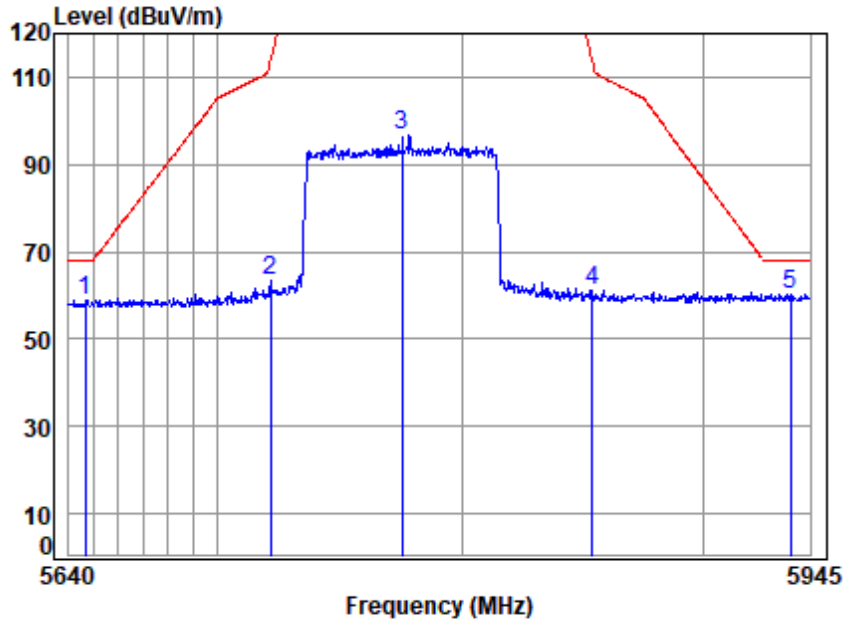
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04390WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5646.539	10.48	33.09	30.64	45.86	58.79	68.20	-9.41	Peak
2	5721.376	10.66	33.24	30.61	49.96	63.25	113.94	-50.69	peak
3	5775.000	10.91	33.35	30.59	83.08	96.75	-----	-----	peak
4	5853.657	10.95	33.59	30.56	47.18	61.16	113.86	-52.70	peak
5 pp	5936.552	10.86	33.57	30.53	46.39	60.29	68.20	-7.91	peak



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7.5 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2
 Test Method: ANSI C63.10 (2020) Section 12.2
 Test Engineer: Byron Liang

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 27.2 °C Humidity: 30.7 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	17	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	18	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



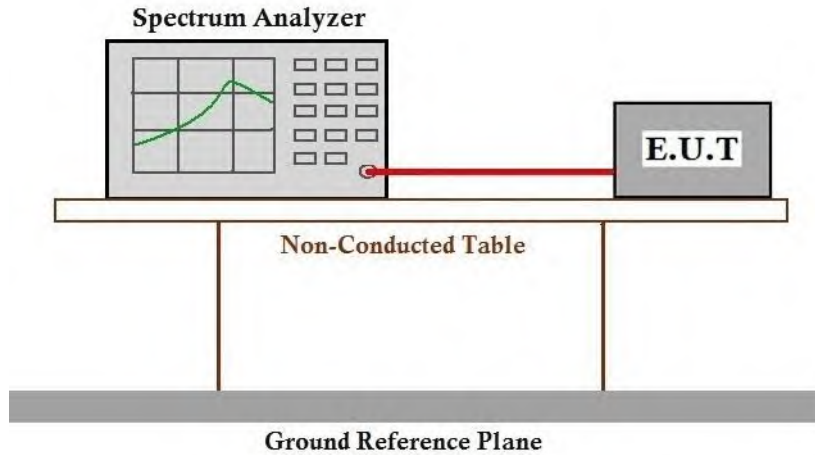
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.6 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2020) Section 12.5.3

Test Engineer: Byron Liang

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

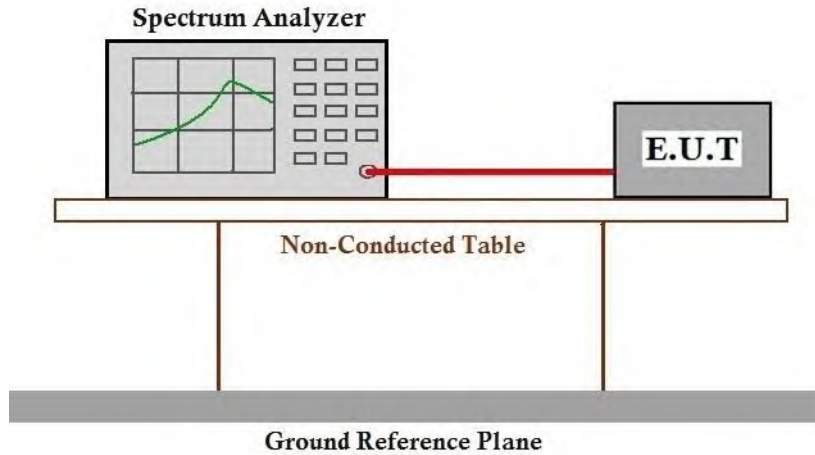
Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	17	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	18	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.5.2

Test Engineer: Byron Liang

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

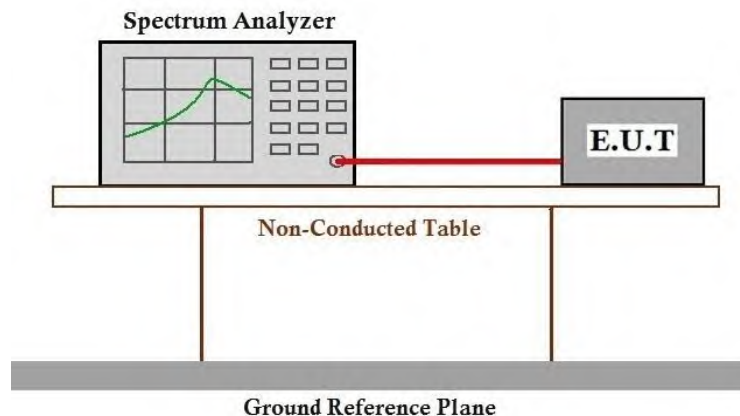
Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	17	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10 (2020) Section 12.5.1

Test Engineer: Byron Liang

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

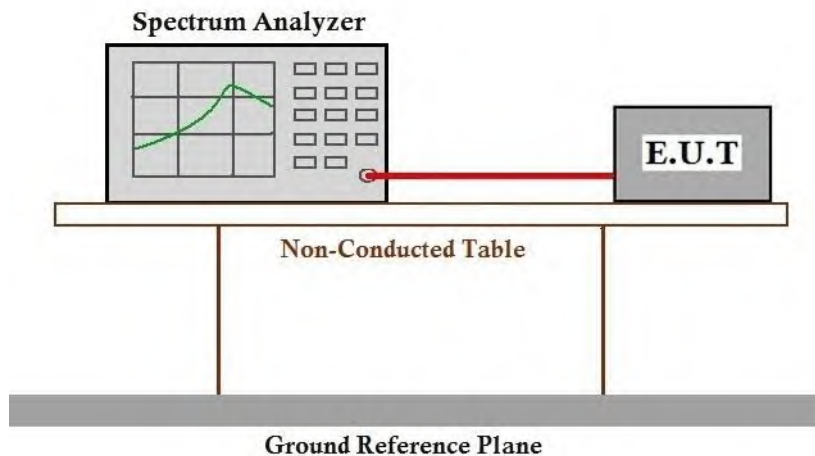
Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Test Engineer: Byron Liang

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C Humidity: 30.7 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	17	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



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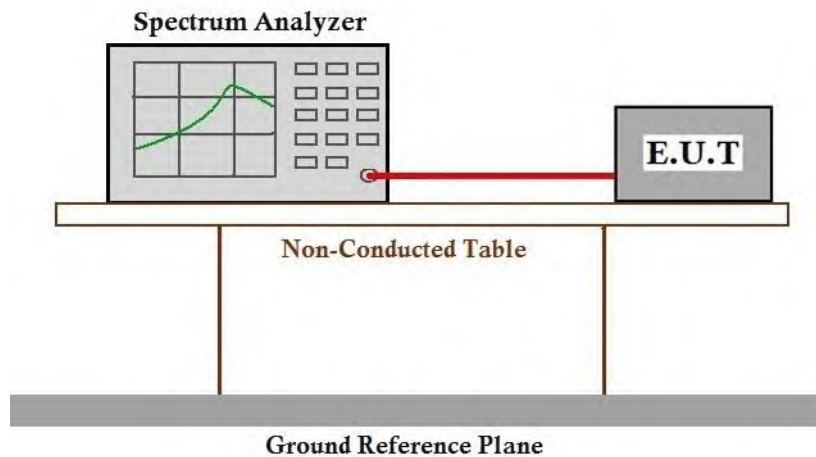
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Final test	18	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

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7.10 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Test Engineer: Byron Liang

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	17	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	18	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



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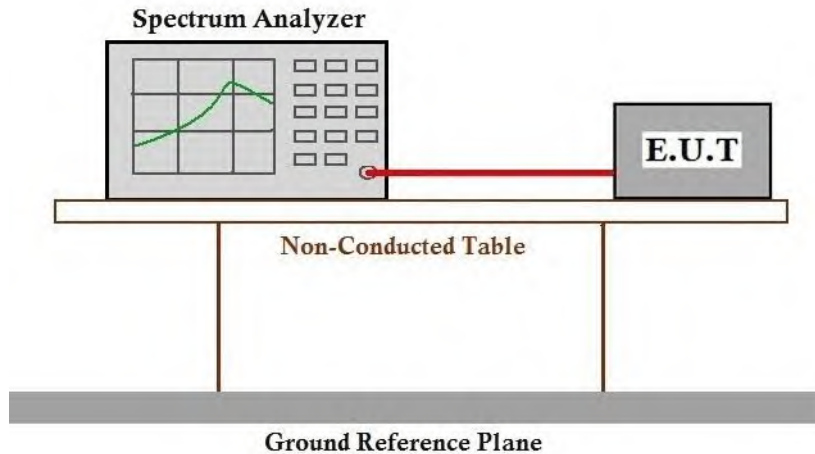
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	case is recorded in the report.
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details

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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

Test Engineer: Byron Liang

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C

Humidity: 30.7 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	17	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	18	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



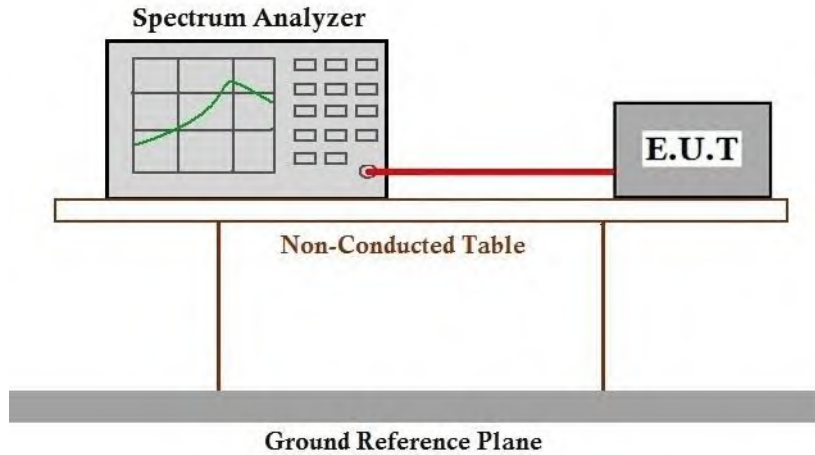
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3
 Test Engineer:

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.12.1 E.U.T. Operation

Operating Environment:

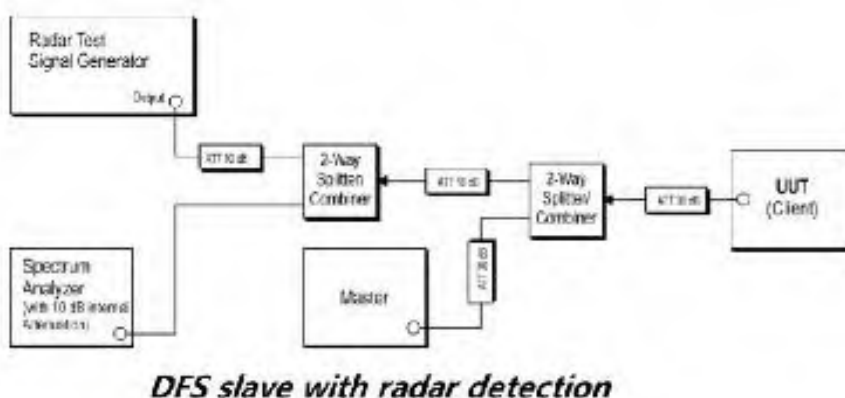
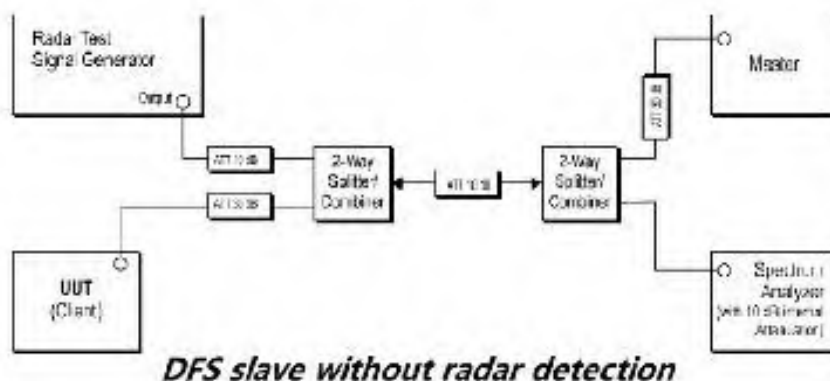
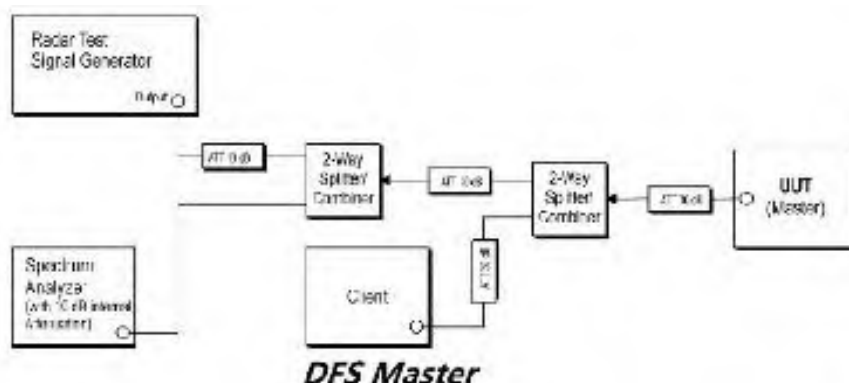
Temperature: 27.2 °C Humidity: 30.7 % RH Atmospheric Pressure: 1020 mbar



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7.12.2 Test Setup Diagram



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7.12.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3
 Test Engineer:

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 27.2 °C Humidity: 30.7 % RH Atmospheric Pressure: 1020 mbar



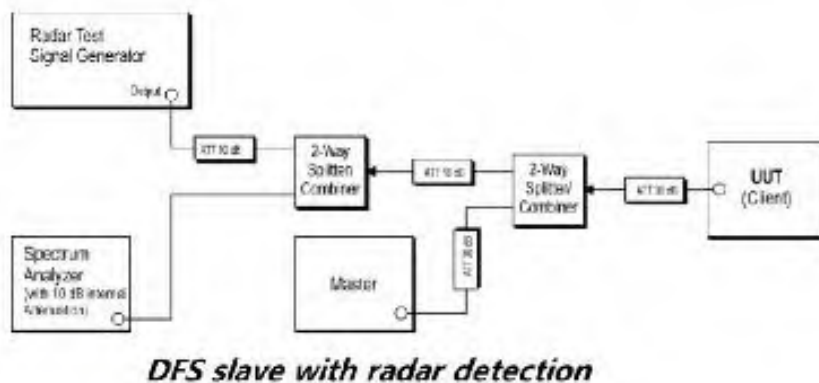
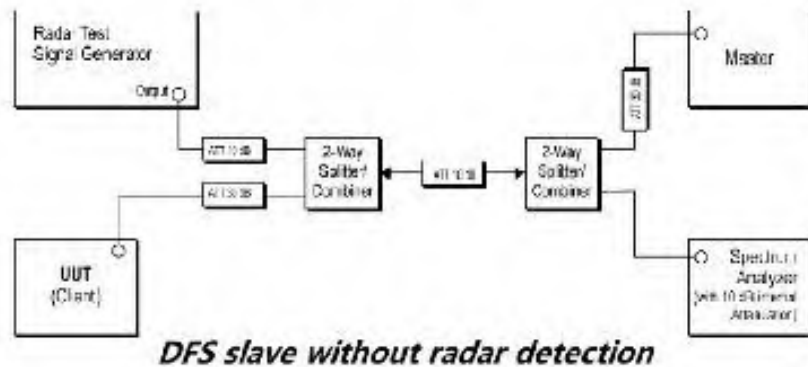
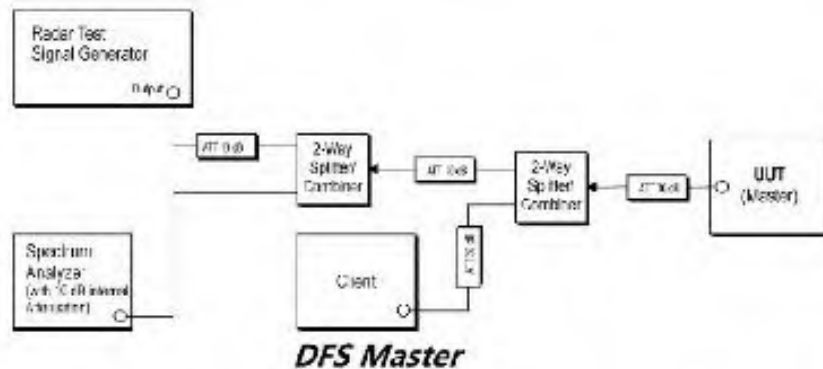
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7.13.2 Test Setup Diagram



7.13.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3
 Test Engineer:

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.14.1 E.U.T. Operation

Operating Environment:

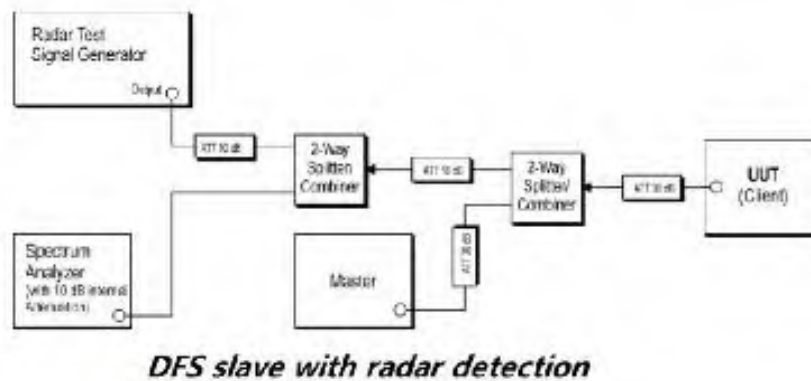
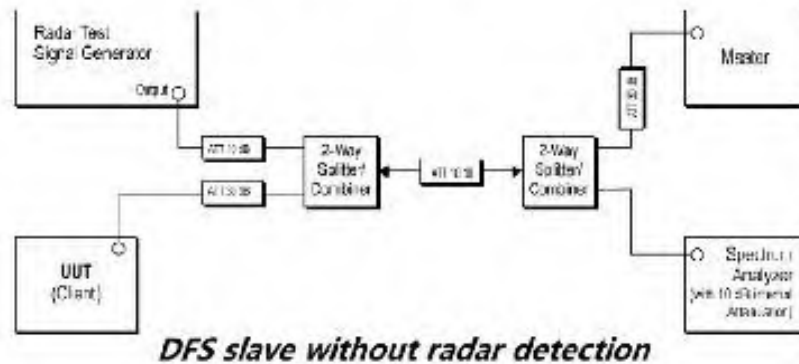
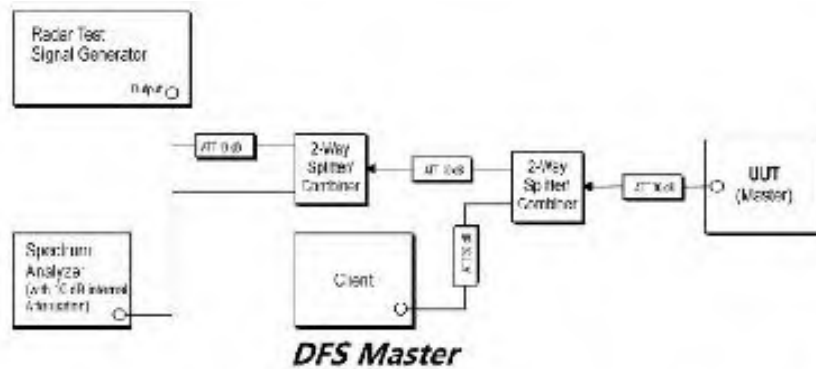
Temperature: °C Humidity: % RH Atmospheric Pressure: mbar



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7.14.2 Test Setup Diagram



7.14.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

8 Test Setup Photo

Please refer to SZCR2510004390WM Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2510004390WM



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant12

Ant12									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.393	1.435	97.07	0.13	0.03
		5200	/	/	1.393	1.435	97.07	0.13	0.00
		5240	/	/	1.393	1.435	97.07	0.13	0.03
		5260	/	/	1.392	1.435	97.00	0.13	0.03
		5300	/	/	1.393	1.435	97.07	0.13	0.03
		5320	/	/	1.393	1.435	97.07	0.13	0.00
		5500	/	/	1.393	1.435	97.07	0.13	0.03
		5580	/	/	1.393	1.435	97.07	0.13	0.03
		5700	/	/	1.392	1.435	97.00	0.13	0.03
		5745	/	/	1.393	1.436	97.01	0.13	0.04
		5785	/	/	1.393	1.435	97.07	0.13	0.03
		5825	/	/	1.392	1.435	97.00	0.13	0.03
		5720	/	/	1.392	1.435	97.00	0.13	0.06
802.11n (HT20)	MIMO	5180	/	/	1.301	1.343	96.87	0.14	0.03
		5200	/	/	1.301	1.343	96.87	0.14	0.03
		5240	/	/	1.301	1.344	96.80	0.14	0.07
		5260	/	/	1.300	1.343	96.80	0.14	0.03
		5300	/	/	1.300	1.343	96.80	0.14	0.03
		5320	/	/	1.301	1.343	96.87	0.14	0.03
		5500	/	/	1.300	1.343	96.80	0.14	0.03
		5580	/	/	1.301	1.343	96.87	0.14	0.03
		5700	/	/	1.300	1.343	96.80	0.14	0.03
		5745	/	/	1.300	1.343	96.80	0.14	0.03
		5785	/	/	1.301	1.343	96.87	0.14	0.03
		5825	/	/	1.301	1.343	96.87	0.14	0.03
		5720	/	/	1.301	1.343	96.87	0.14	0.03
802.11n	MIMO	5190	/	/	0.644	0.687	93.74	0.28	0.07



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(HT40)		5230	/	/	0.645	0.687	93.89	0.27	0.07
		5270	/	/	0.645	0.687	93.89	0.27	0.03
		5310	/	/	0.644	0.687	93.74	0.28	0.07
		5510	/	/	0.645	0.687	93.89	0.27	0.07
		5550	/	/	0.645	0.687	93.89	0.27	0.07
		5670	/	/	0.644	0.687	93.74	0.28	0.03
		5755	/	/	0.645	0.687	93.89	0.27	0.03
		5795	/	/	0.645	0.687	93.89	0.27	0.07
		5710	/	/	0.645	0.688	93.75	0.28	0.07
802.11ac (VHT20)	MIMO	5180	/	/	1.309	1.351	96.89	0.14	0.03
		5200	/	/	1.309	1.352	96.82	0.14	0.07
		5240	/	/	1.309	1.351	96.89	0.14	0.03
		5260	/	/	1.309	1.351	96.89	0.14	0.00
		5300	/	/	1.309	1.351	96.89	0.14	0.00
		5320	/	/	1.309	1.351	96.89	0.14	0.03
		5500	/	/	1.308	1.351	96.82	0.14	0.03
		5580	/	/	1.309	1.351	96.89	0.14	0.03
		5700	/	/	1.309	1.351	96.89	0.14	0.03
		5745	/	/	1.309	1.351	96.89	0.14	0.03
		5785	/	/	1.309	1.351	96.89	0.14	0.00
		5825	/	/	1.309	1.351	96.89	0.14	0.00
		5720	/	/	1.308	1.351	96.82	0.14	0.03
802.11ac (VHT40)	MIMO	5190	/	/	0.653	0.695	93.96	0.27	0.03
		5230	/	/	0.653	0.695	93.96	0.27	0.00
		5270	/	/	0.654	0.696	93.97	0.27	0.07
		5310	/	/	0.653	0.695	93.96	0.27	0.03
		5510	/	/	0.653	0.695	93.96	0.27	0.06
		5550	/	/	0.652	0.695	93.81	0.28	0.04
		5670	/	/	0.653	0.695	93.96	0.27	0.04
		5755	/	/	0.653	0.695	93.96	0.27	0.04
		5795	/	/	0.653	0.695	93.96	0.27	0.07
		5710	/	/	0.653	0.696	93.82	0.28	0.07
802.11ac (VHT80)	MIMO	5210	/	/	0.325	0.367	88.56	0.53	0.10
		5290	/	/	0.325	0.368	88.32	0.54	0.16
		5530	/	/	0.324	0.367	88.28	0.54	0.20
		5610	/	/	0.325	0.368	88.32	0.54	0.16
		5775	/	/	0.324	0.367	88.28	0.54	0.14
		5690	/	/	0.325	0.368	88.32	0.54	0.23
802.11ax (HEW20)	MIMO	5180	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5200	RU242	Left	1.015	1.057	96.03	0.18	0.03



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		5240	RU242	Left	1.014	1.057	95.93	0.18	0.04
		5260	RU242	Left	1.015	1.058	95.94	0.18	0.07
		5300	RU242	Left	1.015	1.057	96.03	0.18	0.03
		5320	RU242	Left	1.015	1.058	95.94	0.18	0.07
		5500	RU242	Left	1.014	1.056	96.02	0.18	0.03
		5580	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5700	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5745	RU242	Left	1.014	1.057	95.93	0.18	0.07
		5785	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5825	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5720	RU242	Left	1.014	1.057	95.93	0.18	0.03
802.11ax (HEW40)	MIMO	5190	RU484	Left	0.536	0.577	92.89	0.32	0.00
		5230	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5270	RU484	Left	0.535	0.577	92.72	0.33	0.03
		5310	RU484	Left	0.534	0.578	92.39	0.34	0.16
		5510	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5550	RU484	Left	0.534	0.577	92.55	0.34	0.07
		5670	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5755	RU484	Left	0.534	0.577	92.55	0.34	0.07
		5795	RU484	Left	0.534	0.577	92.55	0.34	0.07
		5710	RU484	Left	0.534	0.577	92.55	0.34	0.03
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.290	0.331	87.61	0.57	0.06
		5290	RU996	Left	0.290	0.331	87.61	0.57	0.09
		5530	RU996	Left	0.287	0.331	86.71	0.62	0.09
		5610	RU996	Left	0.287	0.331	86.71	0.62	0.03
		5775	RU996	Left	0.288	0.331	87.01	0.60	0.03
		5690	RU996	Left	0.288	0.331	87.01	0.60	0.06



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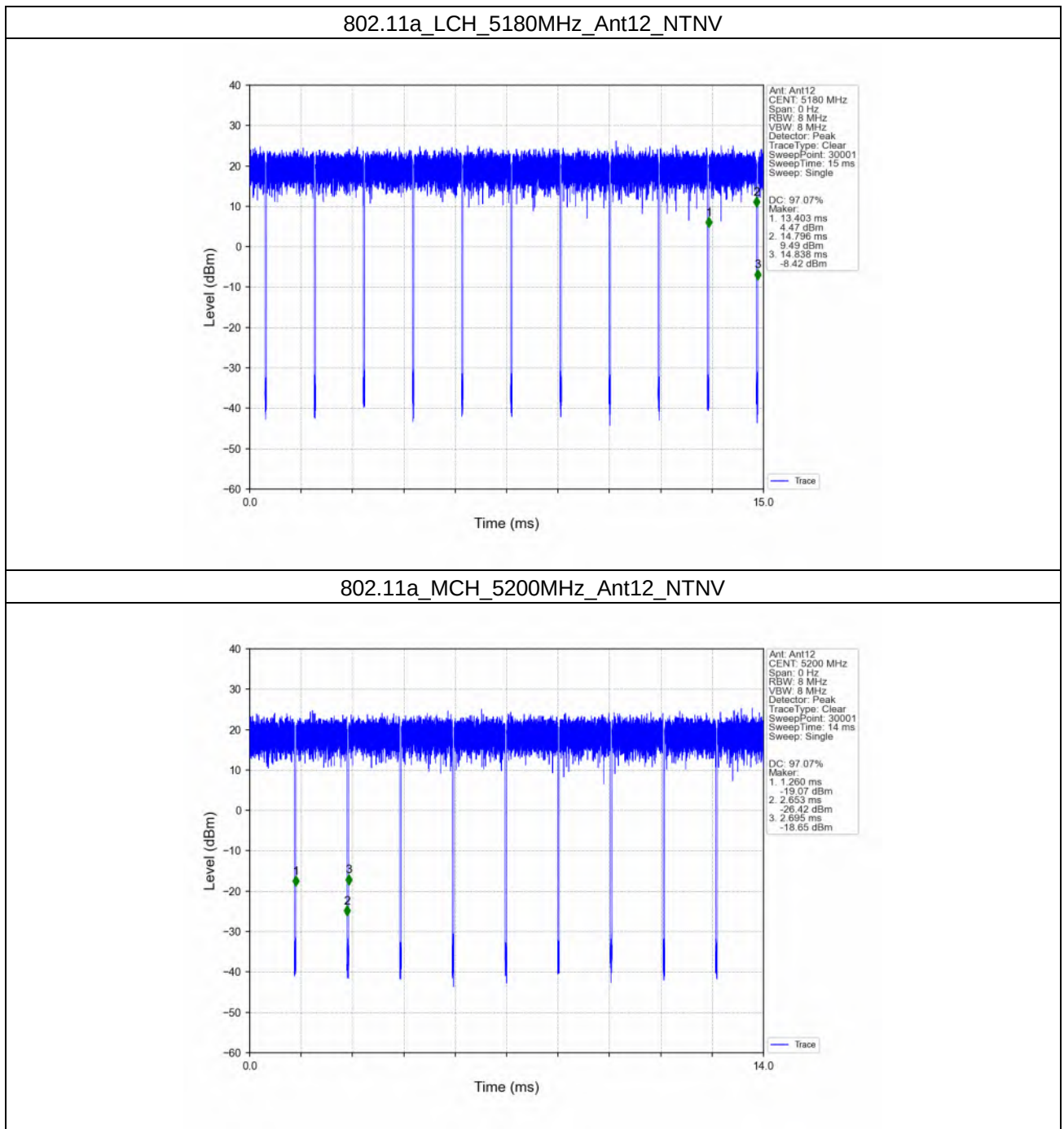
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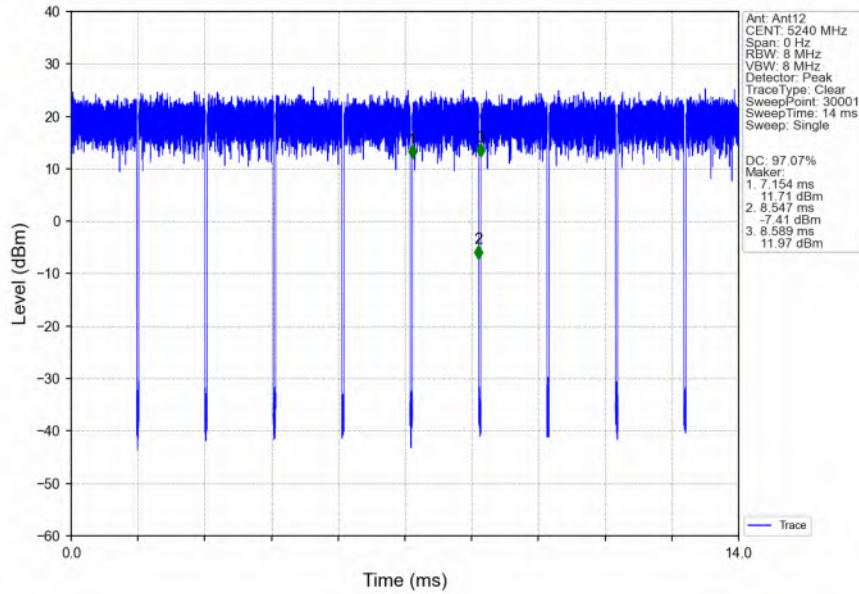
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1.2 Test Graph

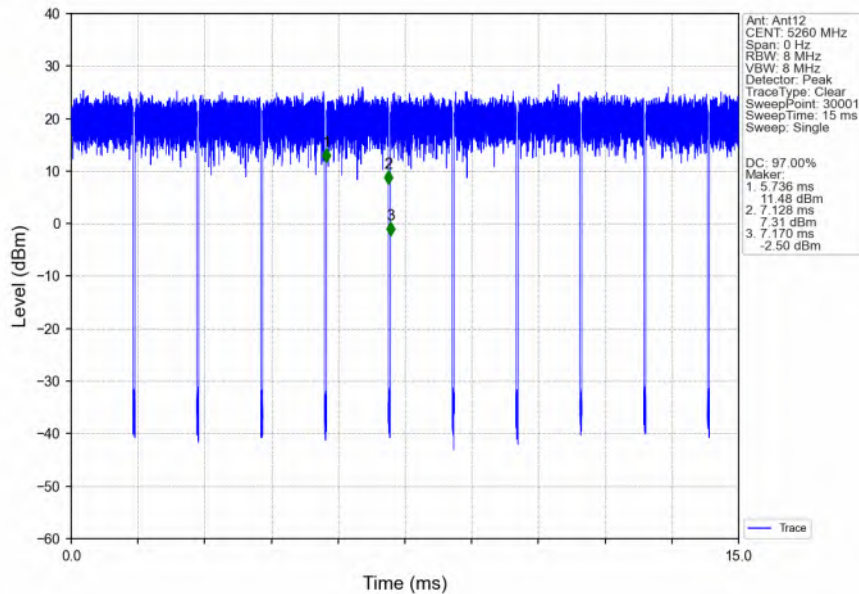
1.2.1 Ant12



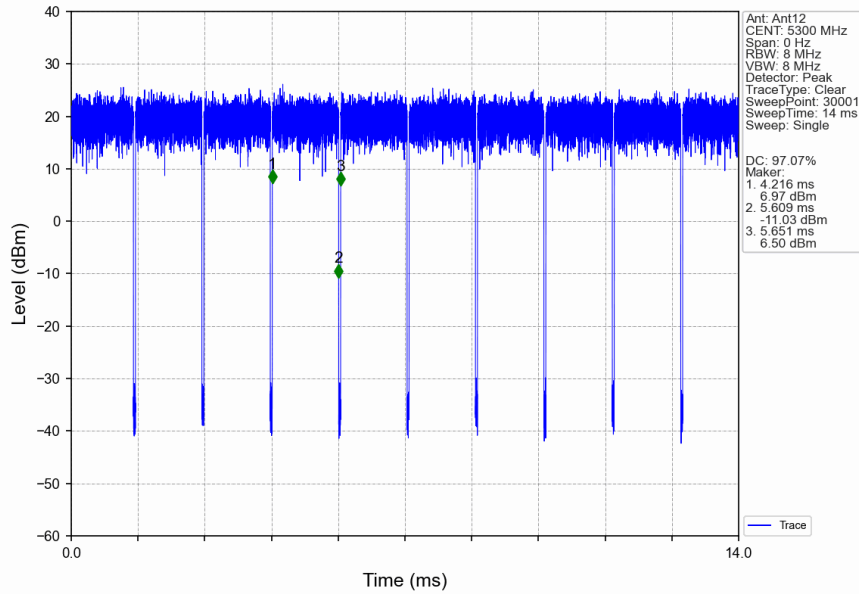
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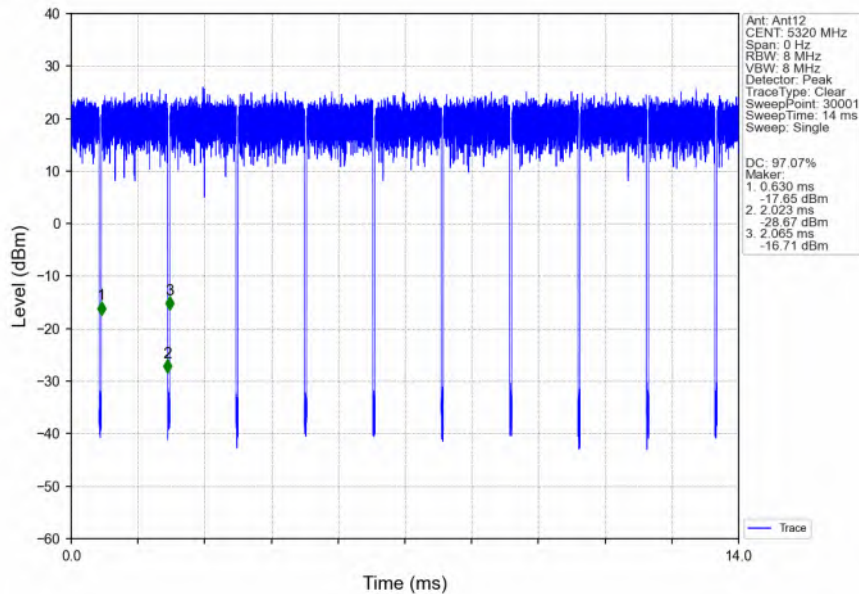
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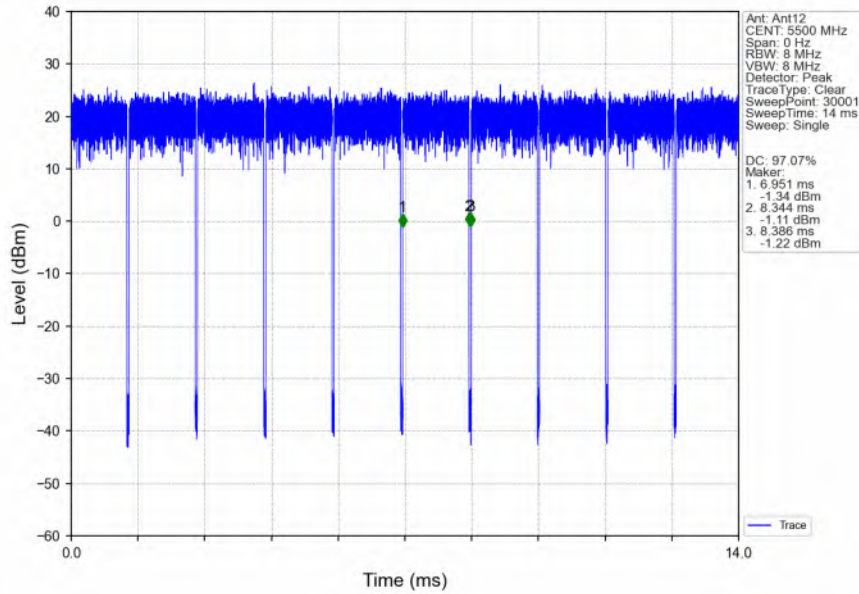
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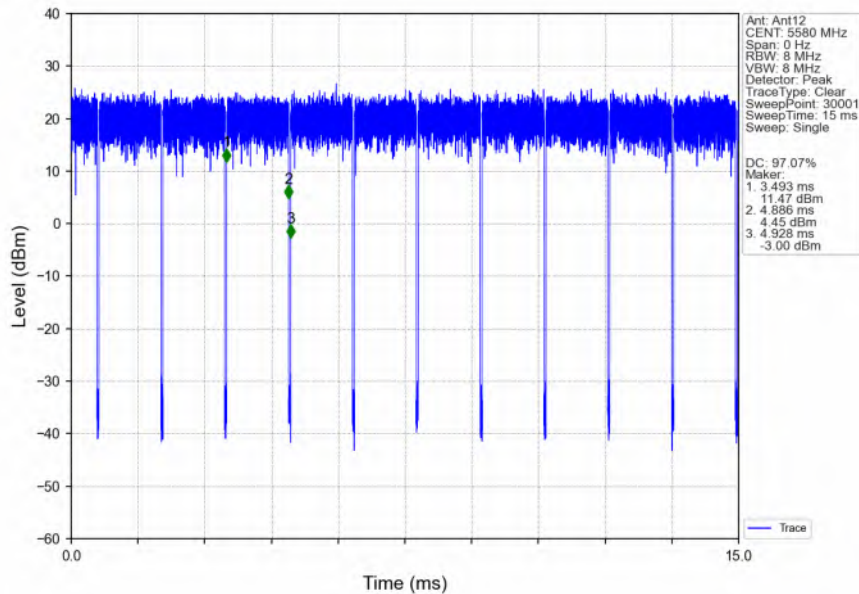
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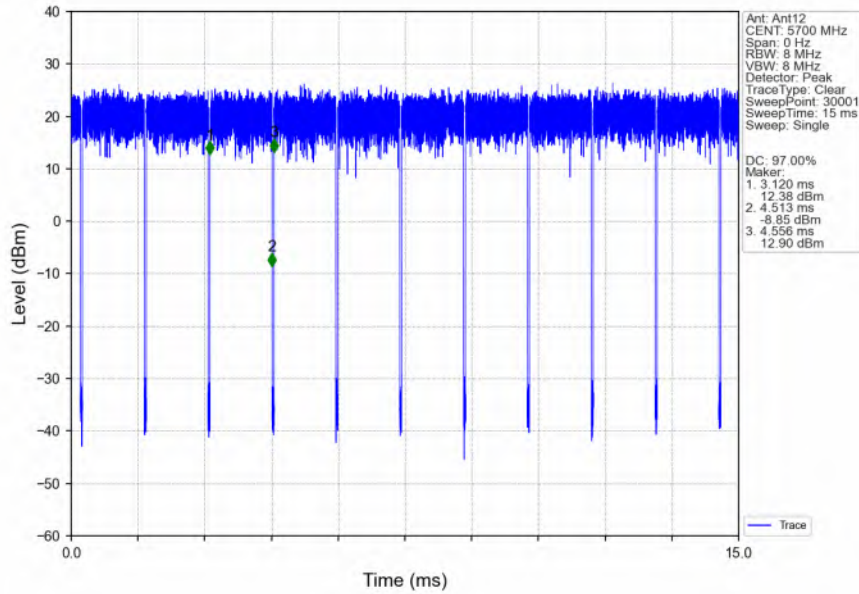
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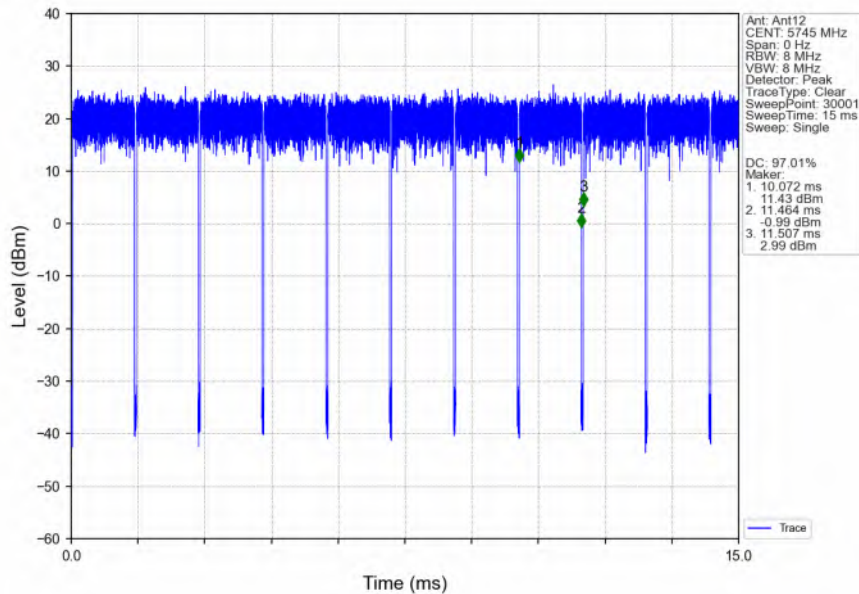
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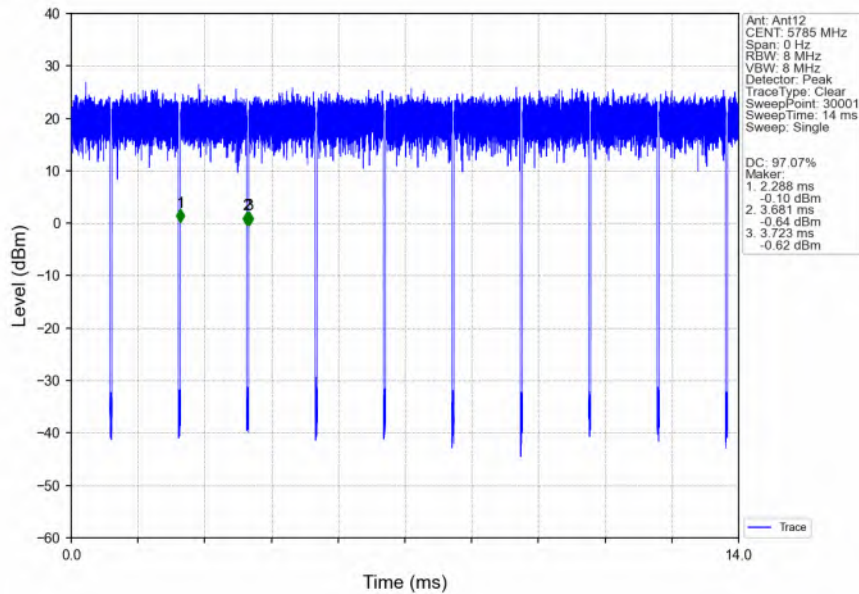
802.11a_HCH_5700MHz_Ant12_NTNV



802.11a_LCH_5745MHz_Ant12_NTNV



802.11a_MCH_5785MHz_Ant12_NTNV



802.11a_HCH_5825MHz_Ant12_NTNV

