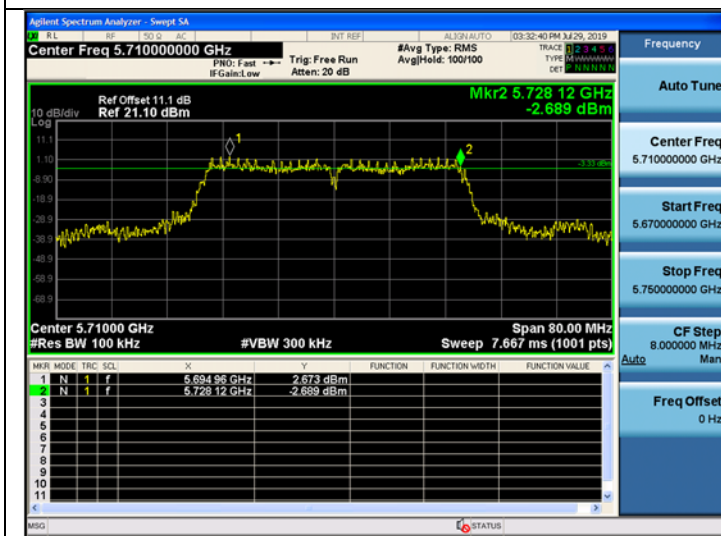
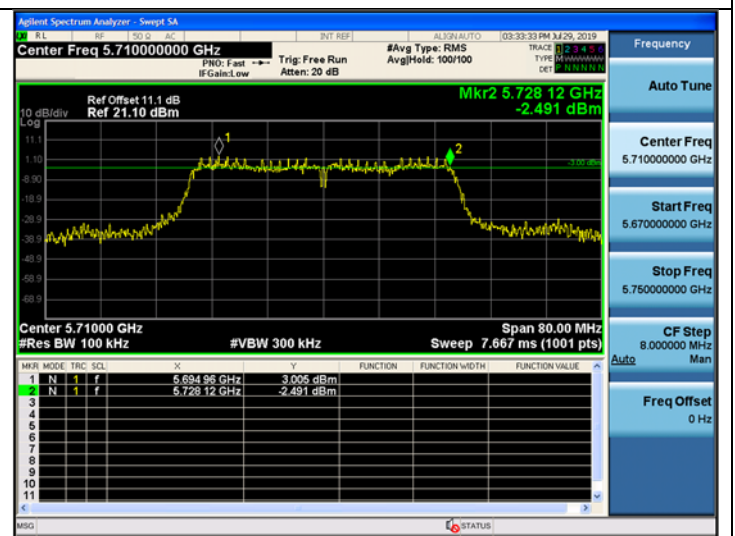


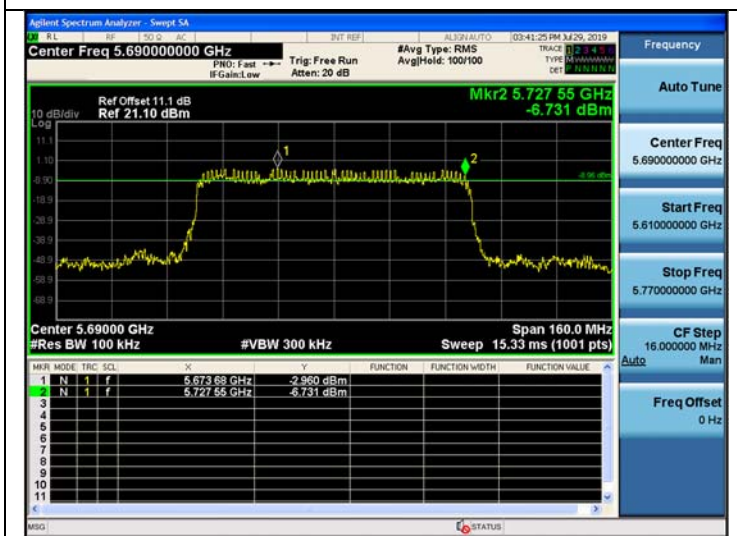
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	14.96	1.555	16.51	22.98
802.11n(HT20)			14.53	1.541	16.07	23.03
802.11ac(VHT20)			14.70	1.515	16.21	23.08
802.11a	5720 (UNII 3 Band)	144	7.76	1.555	9.31	30.00
802.11n(HT20)			7.75	1.541	9.29	30.00
802.11ac(VHT20)			7.98	1.515	9.49	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	13.49	2.463	15.95	23.98
802.11ac(VHT40)			13.52	2.398	15.92	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	3.98	2.463	6.44	30.00
802.11ac(VHT40)			3.94	2.398	6.34	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	10.79	3.414	14.20	23.98
	5690 (UNII 3 Band)	138	-4.05	3.414	-0.64	30.00

Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



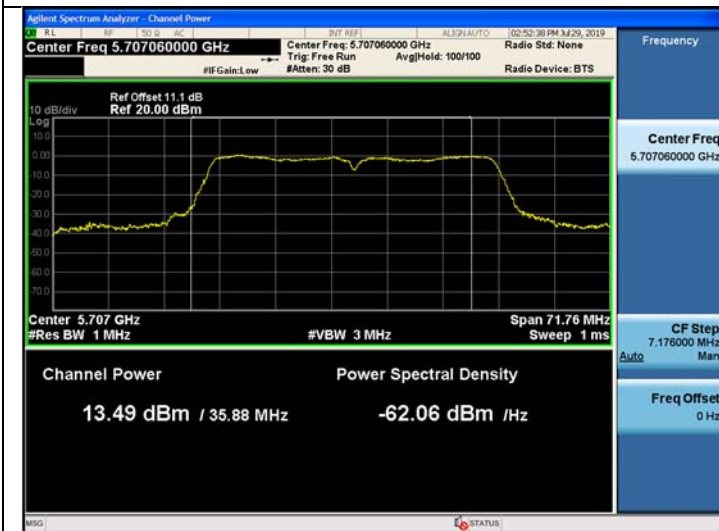
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



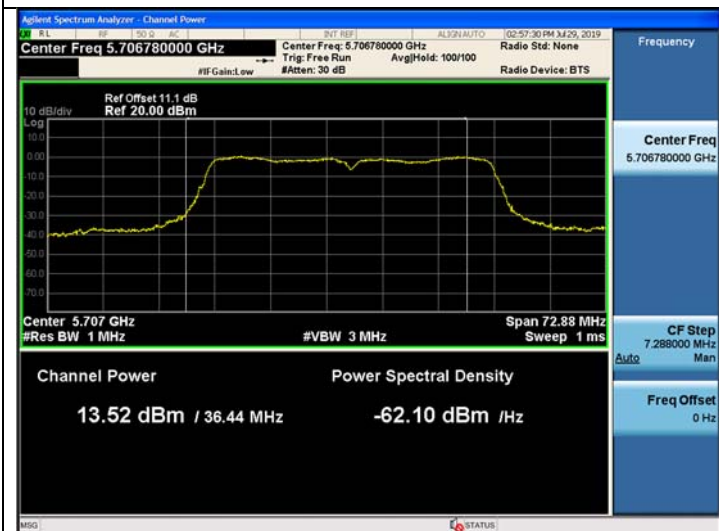
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



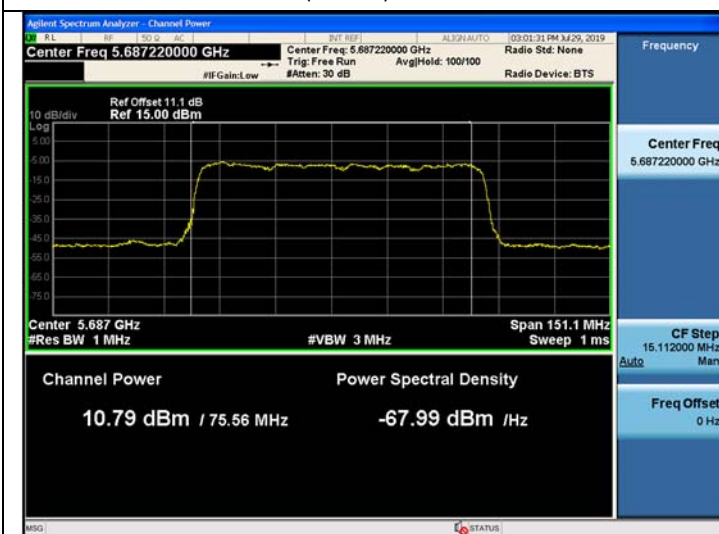
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power

Spectral Density

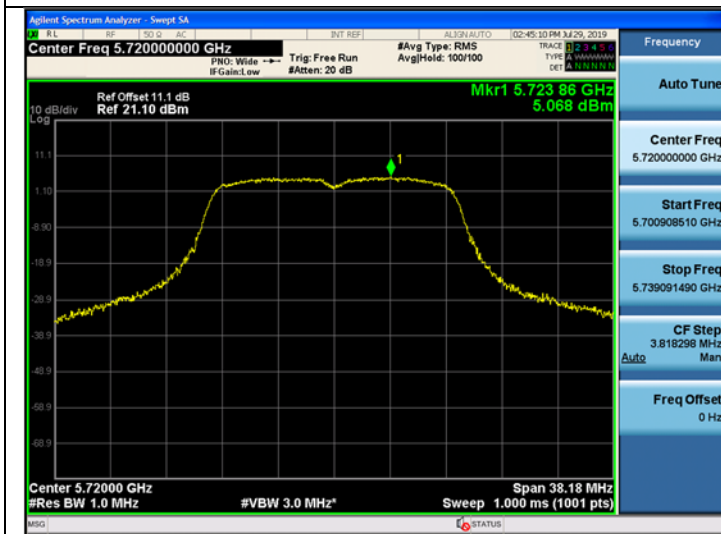
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.068	1.555	6.623	11
802.11n(HT20)			4.990	1.541	6.531	
802.11ac(VHT20)			5.243	1.515	6.758	
802.11a	5720 (UNII 3 Band)	144	1.256	1.555	2.811	30
802.11n(HT20)			1.386	1.541	2.927	
802.11ac(VHT20)			1.649	1.515	3.164	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	0.559	2.463	3.022	11
802.11ac(VHT40)			0.487	2.398	2.885	
802.11n(HT40)	5710 (UNII 3 Band)	142	-2.570	2.463	-0.107	30
802.11ac(VHT40)			-2.674	2.398	-0.276	

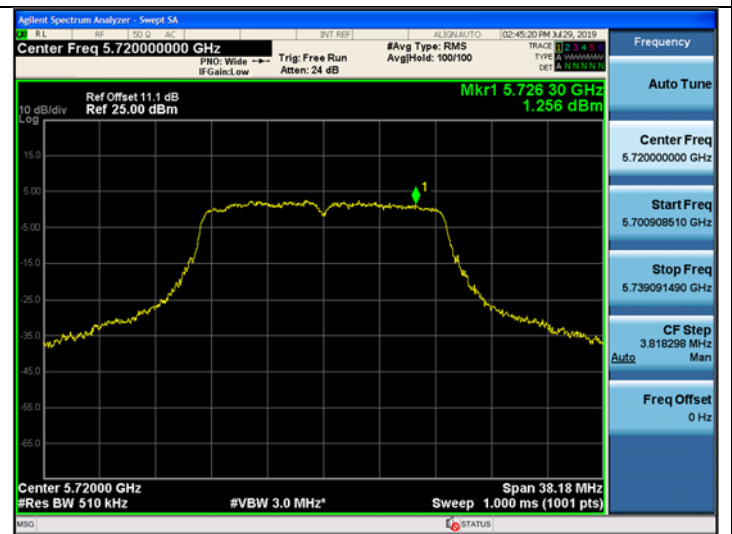
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-5.360	3.414	-1.946	11
	5690 (UNII 3 Band)	138	-10.041	3.414	-6.627	30

Test Plots

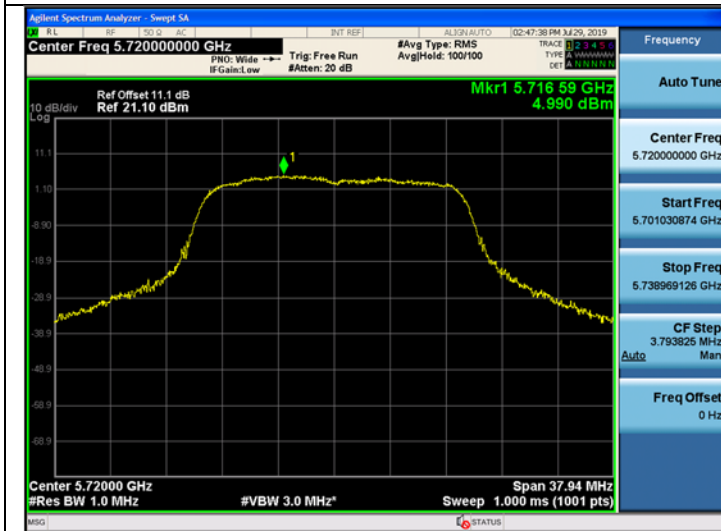
802.11a UNII 2C Band



802.11a UNII 3 Band



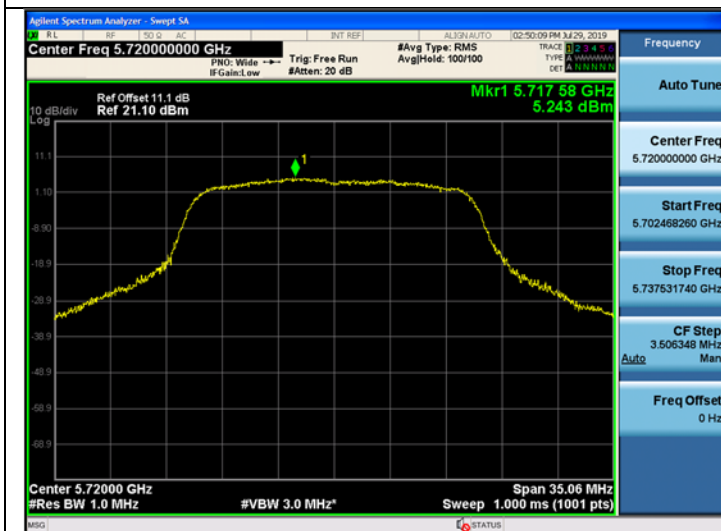
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

Frequency Range : Above 1 GHz

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.87	-3.05	V	50.82	68.20	17.38	PK
15540	52.48	-0.54	V	51.94	73.98	22.04	PK
15540	39.48	-0.54	V	38.94	53.98	15.04	AV
10360	54.13	-3.05	H	51.08	68.20	17.12	PK
15540	53.18	-0.54	H	52.64	73.98	21.34	PK
15540	39.44	-0.54	H	38.90	53.98	15.08	AV

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.88	-2.37	V	51.51	68.20	16.69	PK
15600	53.26	-1.59	V	51.67	73.98	22.31	PK
15600	39.97	-1.59	V	38.38	53.98	15.60	AV
10400	53.95	-2.37	H	51.58	68.20	16.62	PK
15600	52.49	-1.59	H	50.90	73.98	23.08	PK
15600	39.92	-1.59	H	38.33	53.98	15.65	AV

Band : UNII 1

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.32	-3.66	V	50.66	68.20	17.54	PK
15720	52.40	-1.47	V	50.93	73.98	23.05	PK
15720	39.30	-1.47	V	37.83	53.98	16.15	AV
10480	54.62	-3.66	H	50.96	68.20	17.24	PK
15720	52.50	-1.47	H	51.03	73.98	22.95	PK
15720	39.53	-1.47	H	38.06	53.98	15.92	AV

Band : UNII 1

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.11	-3.05	V	50.06	68.20	18.14	PK
15540	51.94	-0.54	V	51.40	73.98	22.58	PK
15540	39.42	-0.54	V	38.88	53.98	15.10	AV
10360	53.36	-3.05	H	50.31	68.20	17.89	PK
15540	52.61	-0.54	H	52.07	73.98	21.91	PK
15540	39.51	-0.54	H	38.97	53.98	15.01	AV

Band : UNII 1

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5200 MHz

Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.64	-2.37	V	51.27	68.20	16.93	PK
15600	52.47	-1.59	V	50.88	73.98	23.10	PK
15600	39.90	-1.59	V	38.31	53.98	15.67	AV
10400	53.79	-2.37	H	51.42	68.20	16.78	PK
15600	51.89	-1.59	H	50.30	73.98	23.68	PK
15600	39.88	-1.59	H	38.29	53.98	15.69	AV

Band : UNII 1

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.32	-3.66	V	50.66	68.20	17.54	PK
15720	52.39	-1.47	V	50.92	73.98	23.06	PK
15720	39.39	-1.47	V	37.92	53.98	16.06	AV
10480	54.51	-3.66	H	50.85	68.20	17.35	PK
15720	52.67	-1.47	H	51.20	73.98	22.78	PK
15720	39.48	-1.47	H	38.01	53.98	15.97	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.29	-3.05	V	50.24	68.20	17.96	PK
15540	51.65	-0.54	V	51.11	73.98	22.87	PK
15540	39.22	-0.54	V	38.68	53.98	15.30	AV
10360	53.63	-3.05	H	50.58	68.20	17.62	PK
15540	52.34	-0.54	H	51.80	73.98	22.18	PK
15540	39.36	-0.54	H	38.82	53.98	15.16	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5200 MHz

Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.16	-2.37	V	50.79	68.20	17.41	PK
15600	52.56	-1.59	V	50.97	73.98	23.01	PK
15600	39.81	-1.59	V	38.22	53.98	15.76	AV
10400	53.30	-2.37	H	50.93	68.20	17.27	PK
15600	52.70	-1.59	H	51.11	73.98	22.87	PK
15600	39.70	-1.59	H	38.11	53.98	15.87	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	53.84	-3.66	V	50.18	68.20	18.02	PK
15720	52.40	-1.47	V	50.93	73.98	23.05	PK
15720	39.35	-1.47	V	37.88	53.98	16.10	AV
10480	54.29	-3.66	H	50.63	68.20	17.57	PK
15720	53.11	-1.47	H	51.64	73.98	22.34	PK
15720	39.44	-1.47	H	37.97	53.98	16.01	AV

Band : UNII 1

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	52.74	-2.77	V	49.97	68.20	18.23	PK
15570	52.44	-1.81	V	50.63	73.98	23.35	PK
15570	40.26	-1.81	V	38.45	53.98	15.53	AV
10380	53.12	-2.77	H	50.35	68.20	17.85	PK
15570	52.80	-1.81	H	50.99	73.98	22.99	PK
15570	40.38	-1.81	H	38.57	53.98	15.41	AV

Band : UNII 1

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5230 MHz

Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	53.57	-3.46	V	50.11	68.20	18.09	PK
15690	52.33	-1.19	V	51.14	73.98	22.84	PK
15690	39.97	-1.19	V	38.78	53.98	15.20	AV
10460	53.50	-3.46	H	50.04	68.20	18.16	PK
15690	52.59	-1.19	H	51.40	73.98	22.58	PK
15690	40.19	-1.19	H	39.00	53.98	14.98	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	53.19	-2.77	V	50.42	68.20	17.78	PK
15570	53.10	-1.81	V	51.29	73.98	22.69	PK
15570	40.34	-1.81	V	38.53	53.98	15.45	AV
10380	53.61	-2.77	H	50.84	68.20	17.36	PK
15570	52.15	-1.81	H	50.34	73.98	23.64	PK
15570	40.29	-1.81	H	38.48	53.98	15.50	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5230 MHz

Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	53.69	-3.46	V	50.23	68.20	17.97	PK
15690	52.57	-1.19	V	51.38	73.98	22.60	PK
15690	39.99	-1.19	V	38.80	53.98	15.18	AV
10460	53.92	-3.46	H	50.46	68.20	17.74	PK
15690	53.20	-1.19	H	52.01	73.98	21.97	PK
15690	40.32	-1.19	H	39.13	53.98	14.85	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5210 MHz

Channel No. 42 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	52.77	-3.07	V	49.70	68.20	18.50	PK
15630	52.17	-2.10	V	50.07	73.98	23.91	PK
15630	40.98	-2.10	V	38.88	53.98	15.10	AV
10420	53.04	-3.07	H	49.97	68.20	18.23	PK
15630	52.82	-2.10	H	50.72	73.98	23.26	PK
15630	41.14	-2.10	H	39.04	53.98	14.94	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5260 MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	54.91	-3.56	V	51.35	68.20	16.85	PK
15780	52.69	-1.55	V	51.14	73.98	22.84	PK
15780	39.40	-1.55	V	37.85	53.98	16.13	AV
10520	54.44	-3.56	H	50.88	68.20	17.32	PK
15780	52.49	-1.55	H	50.94	73.98	23.04	PK
15780	39.22	-1.55	H	37.67	53.98	16.31	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5300 MHz

Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	55.14	-3.25	V	51.89	73.98	22.09	PK
10600	41.95	-3.25	V	38.70	53.98	15.28	AV
15900	52.25	-2.45	V	49.80	73.98	24.18	PK
15900	39.11	-2.45	V	36.66	53.98	17.32	AV
10600	54.47	-3.25	H	51.22	73.98	22.76	PK
10600	41.89	-3.25	H	38.64	53.98	15.34	AV
15900	51.67	-2.45	H	49.22	73.98	24.76	PK
15900	39.05	-2.45	H	36.60	53.98	17.38	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	53.86	-3.24	V	50.62	73.98	23.36	PK
10640	41.51	-3.24	V	38.27	53.98	15.71	AV
15960	53.46	-2.12	V	51.34	73.98	22.64	PK
15960	40.18	-2.12	V	38.06	53.98	15.92	AV
10640	53.67	-3.24	H	50.43	73.98	23.55	PK
10640	41.40	-3.24	H	38.16	53.98	15.82	AV
15960	52.48	-2.12	H	50.36	73.98	23.62	PK
15960	40.04	-2.12	H	37.92	53.98	16.06	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5260 MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	52.73	-3.56	V	49.17	68.20	19.03	PK
15780	51.55	-1.55	V	50.00	73.98	23.98	PK
15780	39.32	-1.55	V	37.77	53.98	16.21	AV
10520	54.19	-3.56	H	50.63	68.20	17.57	PK
15780	51.95	-1.55	H	50.40	73.98	23.58	PK
15780	39.29	-1.55	H	37.74	53.98	16.24	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5300 MHz

Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.89	-3.25	V	51.64	73.98	22.34	PK
10600	41.75	-3.25	V	38.50	53.98	15.48	AV
15900	52.41	-2.45	V	49.96	73.98	24.02	PK
15900	39.02	-2.45	V	36.57	53.98	17.41	AV
10600	54.11	-3.25	H	50.86	73.98	23.12	PK
10600	41.80	-3.25	H	38.55	53.98	15.43	AV
15900	52.80	-2.45	H	50.35	73.98	23.63	PK
15900	39.18	-2.45	H	36.73	53.98	17.25	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	53.31	-3.24	V	50.07	73.98	23.91	PK
10640	41.46	-3.24	V	38.22	53.98	15.76	AV
15960	53.09	-2.12	V	50.97	73.98	23.01	PK
15960	40.17	-2.12	V	38.05	53.98	15.93	AV
10640	53.28	-3.24	H	50.04	73.98	23.94	PK
10640	41.35	-3.24	H	38.11	53.98	15.87	AV
15960	52.77	-2.12	H	50.65	73.98	23.33	PK
15960	40.09	-2.12	H	37.97	53.98	16.01	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5260MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	53.10	-3.56	V	49.54	68.20	18.66	PK
15780	52.11	-1.55	V	50.56	73.98	23.42	PK
15780	39.08	-1.55	V	37.53	53.98	16.45	AV
10520	53.79	-3.56	H	50.23	68.20	17.97	PK
15780	52.82	-1.55	H	51.27	73.98	22.71	PK
15780	39.30	-1.55	H	37.75	53.98	16.23	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5300 MHz

Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.73	-3.25	V	50.48	73.98	23.50	PK
10600	41.68	-3.25	V	38.43	53.98	15.55	AV
15900	52.30	-2.45	V	49.85	73.98	24.13	PK
15900	39.10	-2.45	V	36.65	53.98	17.33	AV
10600	53.88	-3.25	H	50.63	73.98	23.35	PK
10600	41.77	-3.25	H	38.52	53.98	15.46	AV
15900	52.48	-2.45	H	50.03	73.98	23.95	PK
15900	39.11	-2.45	H	36.66	53.98	17.32	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.45	-3.24	V	51.21	73.98	22.77	PK
10640	41.52	-3.24	V	38.28	53.98	15.70	AV
15960	53.32	-2.12	V	51.20	73.98	22.78	PK
15960	40.20	-2.12	V	38.08	53.98	15.90	AV
10640	52.77	-3.24	H	49.53	73.98	24.45	PK
10640	41.40	-3.24	H	38.16	53.98	15.82	AV
15960	53.49	-2.12	H	51.37	73.98	22.61	PK
15960	40.15	-2.12	H	38.03	53.98	15.95	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.55	-3.12	V	50.43	68.20	17.77	PK
15810	51.07	-2.01	V	49.06	73.98	24.92	PK
15810	39.69	-2.01	V	37.68	53.98	16.30	AV
10540	54.20	-3.12	H	51.08	68.20	17.12	PK
15810	52.77	-2.01	H	50.76	73.98	23.22	PK
15810	39.92	-2.01	H	37.91	53.98	16.07	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	54.93	-3.41	V	51.52	73.98	22.46	PK
10620	42.48	-3.41	V	39.07	53.98	14.91	AV
15930	53.11	-2.67	V	50.44	73.98	23.54	PK
15930	40.43	-2.67	V	37.76	53.98	16.22	AV
10620	54.21	-3.41	H	50.80	73.98	23.18	PK
10620	42.13	-3.41	H	38.72	53.98	15.26	AV
15930	52.80	-2.67	H	50.13	73.98	23.85	PK
15930	40.51	-2.67	H	37.84	53.98	16.14	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.89	-3.12	V	50.77	68.20	17.43	PK
15810	51.50	-2.01	V	49.49	73.98	24.49	PK
15810	39.58	-2.01	V	37.57	53.98	16.41	AV
10540	54.11	-3.12	H	50.99	68.20	17.21	PK
15810	53.11	-2.01	H	51.10	73.98	22.88	PK
15810	39.74	-2.01	H	37.73	53.98	16.25	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	54.11	-3.41	V	50.70	73.98	23.28	PK
10620	42.37	-3.41	V	38.96	53.98	15.02	AV
15930	53.29	-2.67	V	50.62	73.98	23.36	PK
15930	40.39	-2.67	V	37.72	53.98	16.26	AV
10620	53.88	-3.41	H	50.47	73.98	23.51	PK
10620	42.11	-3.41	H	38.70	53.98	15.28	AV
15930	53.18	-2.67	H	50.51	73.98	23.47	PK
15930	40.44	-2.67	H	37.77	53.98	16.21	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5290 MHz

Channel No. 58 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	54.49	-3.18	V	51.31	68.20	16.89	PK
15870	52.33	-2.72	V	49.61	73.98	24.37	PK
15870	41.52	-2.72	V	38.80	53.98	15.18	AV
10580	54.24	-3.18	H	51.06	68.20	17.14	PK
15870	53.11	-2.72	H	50.39	73.98	23.59	PK
15870	41.91	-2.72	H	39.19	53.98	14.79	AV

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	53.50	-2.21	V	51.29	73.98	22.69	PK
11000	40.64	-2.21	V	38.43	53.98	15.55	AV
16500	52.00	-0.52	V	51.48	68.20	16.72	PK
11000	53.49	-2.21	H	51.28	73.98	22.70	PK
11000	40.45	-2.21	H	38.24	53.98	15.74	AV
16500	51.40	-0.52	H	50.88	68.20	17.32	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5600 MHz

Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	54.34	-2.34	V	52.00	73.98	21.98	PK
11200	41.36	-2.34	V	39.02	53.98	14.96	AV
16800	52.34	1.04	V	53.38	68.20	14.82	PK
11200	53.67	-2.34	H	51.33	73.98	22.65	PK
11200	40.71	-2.34	H	38.37	53.98	15.61	AV
16800	51.78	1.04	H	52.82	68.20	15.38	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	52.62	-1.98	V	50.64	73.98	23.34	PK
11440	39.54	-1.98	V	37.56	53.98	16.42	AV
17160	51.97	2.38	V	54.35	68.20	13.85	PK
11440	51.81	-1.98	H	49.83	73.98	24.15	PK
11440	39.32	-1.98	H	37.34	53.98	16.64	AV
17160	51.26	2.38	H	53.64	68.20	14.56	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	53.48	-2.21	V	51.27	73.98	22.71	PK
11000	40.51	-2.21	V	38.30	53.98	15.68	AV
16500	51.78	-0.52	V	51.26	68.20	16.94	PK
11000	53.22	-2.21	H	51.01	73.98	22.97	PK
11000	40.38	-2.21	H	38.17	53.98	15.81	AV
16500	51.09	-0.52	H	50.57	68.20	17.63	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5600 MHz

Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	53.50	-2.34	V	51.16	73.98	22.82	PK
11200	41.28	-2.34	V	38.94	53.98	15.04	AV
16800	51.61	1.04	V	52.65	68.20	15.55	PK
11200	53.28	-2.34	H	50.94	73.98	23.04	PK
11200	40.99	-2.34	H	38.65	53.98	15.33	AV
16800	51.48	1.04	H	52.52	68.20	15.68	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	51.89	-1.98	V	49.91	73.98	24.07	PK
11440	39.44	-1.98	V	37.46	53.98	16.52	AV
17160	50.82	2.38	V	53.20	68.20	15.00	PK
11440	51.55	-1.98	H	49.57	73.98	24.41	PK
11440	39.28	-1.98	H	37.30	53.98	16.68	AV
17160	51.11	2.38	H	53.49	68.20	14.71	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.77	-2.21	V	50.56	73.98	23.42	PK
11000	40.49	-2.21	V	38.28	53.98	15.70	AV
16500	50.78	-0.52	V	50.26	68.20	17.94	PK
11000	54.10	-2.21	H	51.89	73.98	22.09	PK
11000	40.35	-2.21	H	38.14	53.98	15.84	AV
16500	52.11	-0.52	H	51.59	68.20	16.61	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5600 MHz

Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	52.77	-2.34	V	50.43	73.98	23.55	PK
11200	41.08	-2.34	V	38.74	53.98	15.24	AV
16800	52.14	1.04	V	53.18	68.20	15.02	PK
11200	53.13	-2.34	H	50.79	73.98	23.19	PK
11200	40.89	-2.34	H	38.55	53.98	15.43	AV
16800	51.99	1.04	H	53.03	68.20	15.17	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	52.01	-1.98	V	50.03	73.98	23.95	PK
11440	39.41	-1.98	V	37.43	53.98	16.55	AV
17160	50.91	2.38	V	53.29	68.20	14.91	PK
11440	51.91	-1.98	H	49.93	73.98	24.05	PK
11440	39.33	-1.98	H	37.35	53.98	16.63	AV
17160	50.77	2.38	H	53.15	68.20	15.05	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.92	-2.01	V	52.91	73.98	21.07	PK
11020	40.79	-2.01	V	38.78	53.98	15.20	AV
16530	52.40	-0.95	V	51.45	68.20	16.75	PK
11020	53.68	-2.01	H	51.67	73.98	22.31	PK
11020	40.76	-2.01	H	38.75	53.98	15.23	AV
16530	51.77	-0.95	H	50.82	68.20	17.38	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5590 MHz

Channel No. 118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	55.01	-1.85	V	53.16	73.98	20.82	PK
11180	41.74	-1.85	V	39.89	53.98	14.09	AV
16770	51.72	-0.91	V	50.81	68.20	17.39	PK
11180	54.43	-1.85	H	52.58	73.98	21.40	PK
11180	41.34	-1.85	H	39.49	53.98	14.49	AV
16770	50.93	-0.91	H	50.02	68.20	18.18	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	53.81	-1.92	V	51.89	73.98	22.09	PK
11420	40.78	-1.92	V	38.86	53.98	15.12	AV
17130	50.89	2.04	V	52.93	68.20	15.27	PK
11420	54.55	-1.92	H	52.63	73.98	21.35	PK
11420	41.11	-1.92	H	39.19	53.98	14.79	AV
17130	51.15	2.04	H	53.19	68.20	15.01	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.55	-2.01	V	52.54	73.98	21.44	PK
11020	40.85	-2.01	V	38.84	53.98	15.14	AV
16530	52.38	-0.95	V	51.43	68.20	16.77	PK
11020	53.11	-2.01	H	51.10	73.98	22.88	PK
11020	40.68	-2.01	H	38.67	53.98	15.31	AV
16530	52.49	-0.95	H	51.54	68.20	16.66	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5590 MHz

Channel No. 118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	54.11	-1.85	V	52.26	73.98	21.72	PK
11180	41.56	-1.85	V	39.71	53.98	14.27	AV
16770	52.00	-0.91	V	51.09	68.20	17.11	PK
11180	54.32	-1.85	H	52.47	73.98	21.51	PK
11180	41.29	-1.85	H	39.44	53.98	14.54	AV
16770	51.54	-0.91	H	50.63	68.20	17.57	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	54.43	-1.92	V	52.51	73.98	21.47	PK
11420	41.12	-1.92	V	39.20	53.98	14.78	AV
17130	50.95	2.04	V	52.99	68.20	15.21	PK
11420	54.91	-1.92	H	52.99	73.98	20.99	PK
11420	41.33	-1.92	H	39.41	53.98	14.57	AV
17130	51.40	2.04	H	53.44	68.20	14.76	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5530 MHz

Channel No. 106 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	55.05	-2.06	V	52.99	73.98	20.99	PK
11060	43.30	-2.06	V	41.24	53.98	12.74	AV
16590	54.33	-0.96	V	53.37	68.20	14.83	PK
11060	53.33	-2.06	H	51.27	73.98	22.71	PK
11060	43.12	-2.06	H	41.06	53.98	12.92	AV
16590	53.18	-0.96	H	52.22	68.20	15.98	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5610 MHz

Channel No. 122 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	55.07	-2.63	V	52.44	73.98	21.54	PK
11220	43.19	-2.63	V	40.56	53.98	13.42	AV
16830	52.20	0.85	V	53.05	68.20	15.15	PK
11220	53.34	-2.63	H	50.71	73.98	23.27	PK
11220	42.72	-2.63	H	40.09	53.98	13.89	AV
16830	50.83	0.85	H	51.68	68.20	16.52	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5690 MHz

Channel No. 138 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	53.84	-2.02	V	51.82	73.98	22.16	PK
11380	41.79	-2.02	V	39.77	53.98	14.21	AV
17070	52.90	1.48	V	54.38	68.20	13.82	PK
11380	52.15	-2.02	H	50.13	73.98	23.85	PK
11380	41.52	-2.02	H	39.50	53.98	14.48	AV
17070	52.83	1.48	H	54.31	68.20	13.89	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	52.80	-2.07	V	50.73	73.98	23.25	PK
11490	40.23	-2.07	V	38.16	53.98	15.82	AV
17235	52.38	2.97	V	55.35	68.20	12.85	PK
11490	53.92	-2.07	H	51.85	73.98	22.13	PK
11490	40.50	-2.07	H	38.43	53.98	15.55	AV
17235	53.64	2.97	H	56.61	68.20	11.59	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	53.39	-2.13	V	51.26	73.98	22.72	PK
11570	41.34	-2.13	V	39.21	53.98	14.77	AV
17355	50.42	3.16	V	53.58	68.20	14.63	PK
11570	53.61	-2.13	H	51.48	73.98	22.50	PK
11570	41.51	-2.13	H	39.38	53.98	14.60	AV
17355	50.76	3.16	H	53.92	68.20	14.29	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.24	-2.56	V	51.68	73.98	22.30	PK
11650	41.58	-2.56	V	39.02	53.98	14.96	AV
17475	51.24	4.17	V	55.41	68.20	12.80	PK
11650	54.83	-2.56	H	52.27	73.98	21.71	PK
11650	41.66	-2.56	H	39.10	53.98	14.88	AV
17475	51.51	4.17	H	55.68	68.20	12.53	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	52.57	-2.07	V	50.50	73.98	23.48	PK
11490	40.18	-2.07	V	38.11	53.98	15.87	AV
17235	53.12	2.97	V	56.09	68.20	12.11	PK
11490	53.02	-2.07	H	50.95	73.98	23.03	PK
11490	40.33	-2.07	H	38.26	53.98	15.72	AV
17235	53.45	2.97	H	56.42	68.20	11.78	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	52.89	-2.13	V	50.76	73.98	23.22	PK
11570	41.28	-2.13	V	39.15	53.98	14.83	AV
17355	51.11	3.16	V	54.27	68.20	13.94	PK
11570	53.61	-2.13	H	51.48	73.98	22.50	PK
11570	41.46	-2.13	H	39.33	53.98	14.65	AV
17355	52.76	3.16	H	55.92	68.20	12.29	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.91	-2.56	V	51.35	73.98	22.63	PK
11650	41.28	-2.56	V	38.72	53.98	15.26	AV
17475	51.35	4.17	V	55.52	68.20	12.69	PK
11650	55.58	-2.56	H	53.02	73.98	20.96	PK
11650	41.49	-2.56	H	38.93	53.98	15.05	AV
17475	51.92	4.17	H	56.09	68.20	12.12	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	52.73	-2.07	V	50.66	73.98	23.32	PK
11490	40.27	-2.07	V	38.20	53.98	15.78	AV
17235	53.09	2.97	V	56.06	68.20	12.14	PK
11490	52.98	-2.07	H	50.91	73.98	23.07	PK
11490	40.39	-2.07	H	38.32	53.98	15.66	AV
17235	53.31	2.97	H	56.28	68.20	11.92	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	53.78	-2.13	V	51.65	73.98	22.33	PK
11570	41.33	-2.13	V	39.20	53.98	14.78	AV
17355	51.90	3.16	V	55.06	68.20	13.15	PK
11570	52.88	-2.13	H	50.75	73.98	23.23	PK
11570	41.39	-2.13	H	39.26	53.98	14.72	AV
17355	52.55	3.16	H	55.71	68.20	12.50	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.30	-2.56	V	51.74	73.98	22.24	PK
11650	41.45	-2.56	V	38.89	53.98	15.09	AV
17475	50.87	4.17	V	55.04	68.20	13.17	PK
11650	55.31	-2.56	H	52.75	73.98	21.23	PK
11650	41.58	-2.56	H	39.02	53.98	14.96	AV
17475	52.25	4.17	H	56.42	68.20	11.79	PK

Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.37	-1.83	V	51.54	73.98	22.44	PK
11510	40.70	-1.83	V	38.87	53.98	15.11	AV
17265	51.66	2.60	V	54.26	68.20	13.95	PK
11510	54.78	-1.83	H	52.95	73.98	21.03	PK
11510	41.20	-1.83	H	39.37	53.98	14.61	AV
17265	52.91	2.60	H	55.51	68.20	12.70	PK

Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	53.76	-2.10	V	51.66	73.98	22.32	PK
11590	41.24	-2.10	V	39.14	53.98	14.84	AV
17385	52.23	3.42	V	55.65	68.20	12.55	PK
11590	54.91	-2.10	H	52.81	73.98	21.17	PK
11590	41.49	-2.10	H	39.39	53.98	14.59	AV
17385	53.40	3.42	H	56.82	68.20	11.38	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.46	-1.83	V	51.63	73.98	22.35	PK
11510	40.88	-1.83	V	39.05	53.98	14.93	AV
17265	51.99	2.60	V	54.59	68.20	13.62	PK
11510	54.02	-1.83	H	52.19	73.98	21.79	PK
11510	41.32	-1.83	H	39.49	53.98	14.49	AV
17265	52.30	2.60	H	54.90	68.20	13.31	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	52.45	-2.10	V	50.35	73.98	23.63	PK
11590	41.18	-2.10	V	39.08	53.98	14.90	AV
17385	51.74	3.42	V	55.16	68.20	13.04	PK
11590	53.90	-2.10	H	51.80	73.98	22.18	PK
11590	41.39	-2.10	H	39.29	53.98	14.69	AV
17385	53.12	3.42	H	56.54	68.20	11.66	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

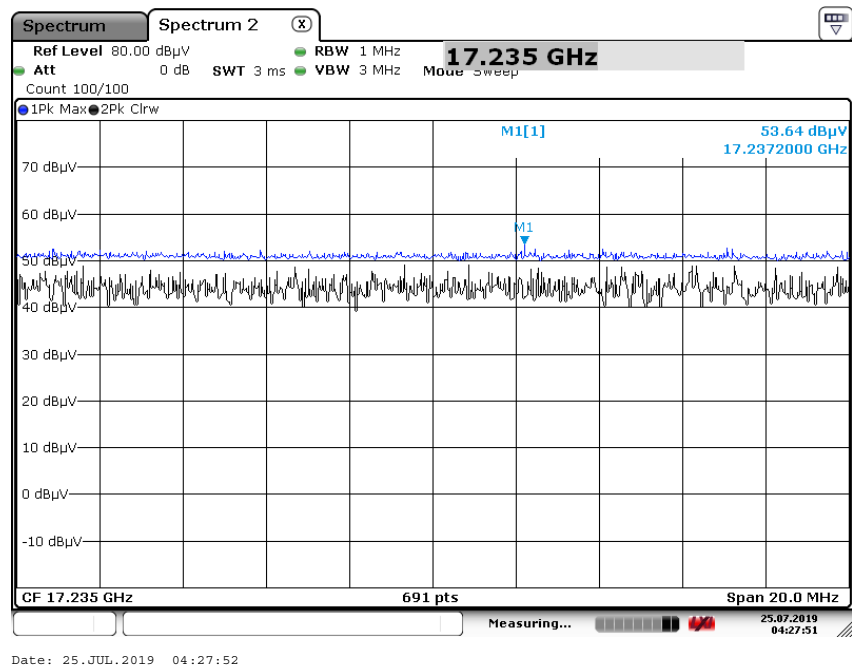
Operating Frequency 5775 MHz

Channel No. 155 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	53.78	-1.50	V	52.28	73.98	21.70	PK
11550	42.30	-1.50	V	40.80	53.98	13.18	AV
17325	50.73	3.32	V	54.05	68.20	14.16	PK
11550	55.23	-1.50	H	53.73	73.98	20.25	PK
11550	42.94	-1.50	H	41.44	53.98	12.54	AV
17325	51.40	3.32	H	54.72	68.20	13.49	PK

Test Plots

Peak Reading (802.11a, Ch.149 3rd Harmonic, Y-H)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	51.16	3.89	H	55.05	73.98	18.93	PK
5150	38.32	3.89	H	42.21	53.98	11.77	AV
5150	50.89	3.89	V	54.78	73.98	19.20	PK
5150	38.14	3.89	V	42.03	53.98	11.95	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	52.89	3.89	H	56.78	73.98	17.20	PK
5150	38.29	3.89	H	42.18	53.98	11.80	AV
5150	51.64	3.89	V	55.53	73.98	18.45	PK
5150	37.91	3.89	V	41.8	53.98	12.18	AV

Band : UNII 1

Operation Mode: 802.11 ac_VHT20

Transfer MCS Index: 0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	51.64	3.89	H	55.53	73.98	18.45	PK
5150	38.45	3.89	H	42.34	53.98	11.64	AV
5150	50.77	3.89	V	54.66	73.98	19.32	PK
5150	38.29	3.89	V	42.18	53.98	11.80	AV

Band : UNII 1

Operation Mode: 802.11 n_HT40

Transfer MCS Index: 0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.17	3.89	H	64.06	73.98	9.92	PK
5150	47.20	3.89	H	51.09	53.98	2.89	AV
5150	59.12	3.89	V	63.01	73.98	10.97	PK
5150	46.88	3.89	V	50.77	53.98	3.21	AV

Band : UNII 1

Operation Mode: 802.11 ac_VHT40

Transfer MCS Index: 0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.31	3.89	H	65.20	73.98	8.78	PK
5150	47.49	3.89	H	51.38	53.98	2.60	AV
5150	60.48	3.89	V	64.37	73.98	9.61	PK
5150	47.25	3.89	V	51.14	53.98	2.84	AV

Band : UNII 1

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

Operating Frequency 5210 MHz

Channel No. 42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.37	3.89	H	59.26	73.98	14.72	PK
5150	45.50	3.89	H	49.39	53.98	4.59	AV
5150	54.74	3.89	V	58.63	73.98	15.35	PK
5150	45.15	3.89	V	49.04	53.98	4.94	AV

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	57.48	4.22	H	61.70	73.98	12.28	PK
5350	38.20	4.22	H	42.42	53.98	11.56	AV
5350	56.58	4.22	V	60.8	73.98	13.18	PK
5350	38.01	4.22	V	42.23	53.98	11.75	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	56.28	4.22	H	60.50	73.98	13.48	PK
5350	38.92	4.22	H	43.14	53.98	10.84	AV
5350	55.82	4.22	V	60.04	73.98	13.94	PK
5350	38.49	4.22	V	42.71	53.98	11.27	AV

Band : UNII 2A

Operation Mode: 802.11 ac_VHT20

Transfer MCS Index: 0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	58.39	4.22	H	62.61	73.98	11.37	PK
5350	39.01	4.22	H	43.23	53.98	10.75	AV
5350	57.89	4.22	V	62.11	73.98	11.87	PK
5350	38.61	4.22	V	42.83	53.98	11.15	AV

Band : UNII 2A

Operation Mode: 802.11 n_HT40

Transfer MCS Index: 0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	62.95	4.22	H	67.17	73.98	6.81	PK
5350	47.14	4.22	H	51.36	53.98	2.62	AV
5350	61.35	4.22	V	65.57	73.98	8.41	PK
5350	46.76	4.22	V	50.98	53.98	3.00	AV

Band : UNII 2A

Operation Mode: 802.11 ac_VHT40

Transfer MCS Index: 0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	62.53	4.22	H	66.75	73.98	7.23	PK
5350	47.18	4.22	H	51.4	53.98	2.58	AV
5350	61.79	4.22	V	66.01	73.98	7.97	PK
5350	46.88	4.22	V	51.1	53.98	2.88	AV

Band : UNII 2A

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

Operating Frequency 5290 MHz

Channel No. 58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.15	4.22	H	64.37	73.98	9.61	PK
5350	46.77	4.22	H	50.99	53.98	2.99	AV
5350	58.88	4.22	V	63.1	73.98	10.88	PK
5350	46.32	4.22	V	50.54	53.98	3.44	AV

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	58.14	5.10	H	63.24	73.98	10.74	PK
5460	38.19	5.10	H	43.29	53.98	10.69	AV
5470	58.20	5.06	H	63.26	68.20	4.94	PK
5460	57.91	5.10	V	63.01	73.98	10.97	PK
5460	37.99	5.10	V	43.09	53.98	10.89	AV
5470	57.55	5.06	V	62.61	68.20	5.59	PK

Band : UNII 2C

Operation Mode: 802.11 n_HT20

Transfer MCS Index: 0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	53.90	5.10	H	59.00	73.98	14.98	PK
5460	37.86	5.10	H	42.96	53.98	11.02	AV
5470	56.37	5.06	H	61.43	68.20	6.77	PK
5460	52.91	5.10	V	58.01	73.98	15.97	PK
5460	37.65	5.10	V	42.75	53.98	11.23	AV
5470	56.07	5.06	V	61.13	68.20	7.07	PK

Band : UNII 2C

Operation Mode: 802.11 ac_VHT20

Transfer MCS Index: 0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.53	5.10	H	59.63	73.98	14.35	PK
5460	37.94	5.10	H	43.04	53.98	10.94	AV
5470	55.25	5.06	H	60.31	68.20	7.89	PK
5460	54.02	5.10	V	59.12	73.98	14.86	PK
5460	37.76	5.10	V	42.86	53.98	11.12	AV
5470	54.73	5.06	V	59.79	68.20	8.41	PK

Band : UNII 2C

Operation Mode: 802.11 n_HT40

Transfer MCS Index: 0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	57.97	5.10	H	63.07	73.98	10.91	PK
5460	40.28	5.10	H	45.38	53.98	8.60	AV
5470	60.35	5.06	H	65.41	68.20	2.79	PK
5460	56.29	5.10	V	61.39	73.98	12.59	PK
5460	39.85	5.10	V	44.95	53.98	9.03	AV
5470	59.38	5.06	V	64.44	68.20	3.76	PK

Band : UNII 2C

Operation Mode: 802.11 ac_VHT40

Transfer MCS Index: 0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.67	5.10	H	63.77	73.98	10.21	PK
5460	40.79	5.10	H	45.89	53.98	8.09	AV
5470	60.44	5.06	H	65.5	68.20	2.70	PK
5460	58.03	5.10	V	63.13	73.98	10.85	PK
5460	40.55	5.10	V	45.65	53.98	8.33	AV
5470	59.61	5.06	V	64.67	68.20	3.53	PK

Band : UNII 2C

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

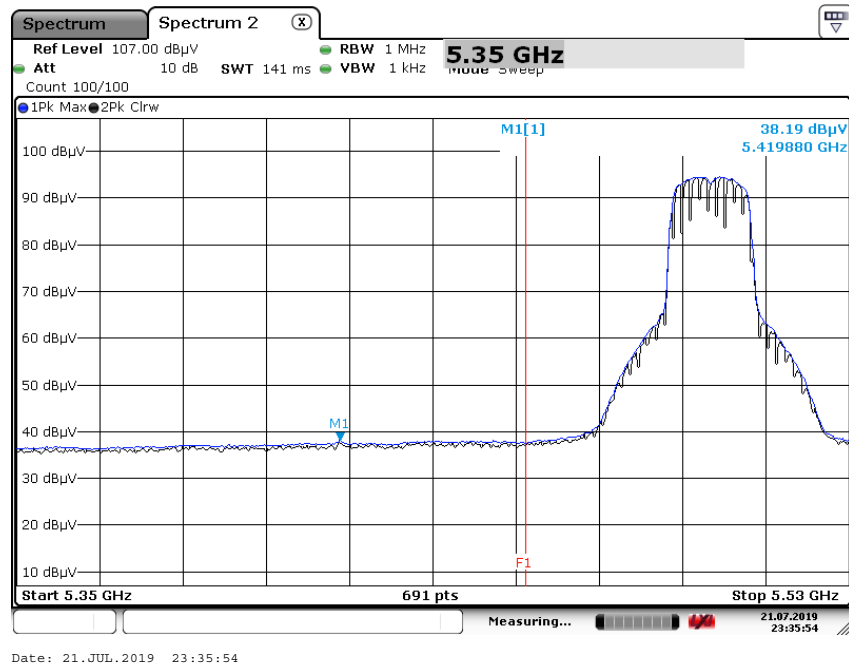
Operating Frequency 5530 MHz

Channel No. 106 Ch

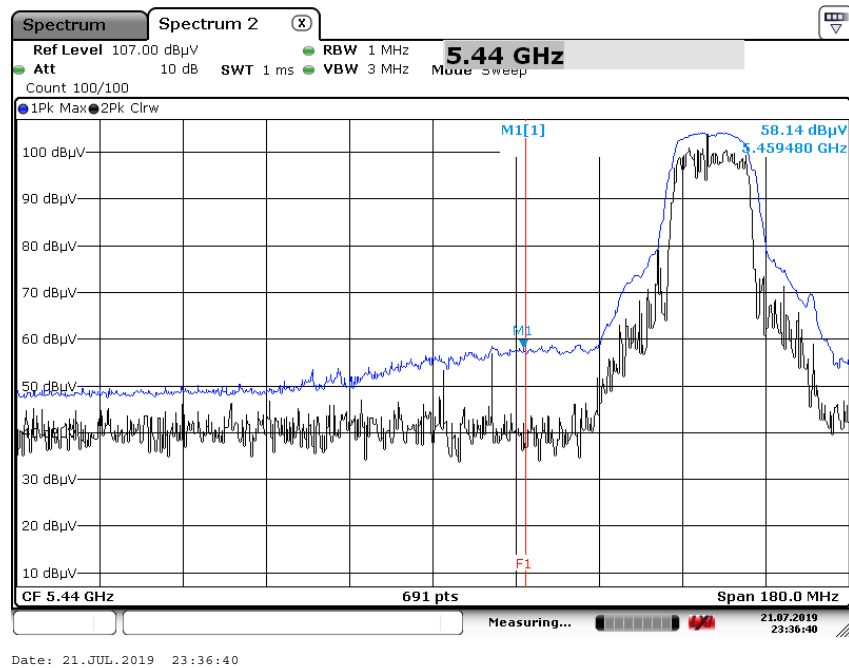
Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	57.79	5.10	H	62.89	73.98	11.09	PK
5460	46.57	5.10	H	51.67	53.98	2.31	AV
5470	59.87	5.06	H	64.93	68.20	3.27	PK
5460	57.28	5.10	V	62.38	73.98	11.60	PK
5460	46.33	5.10	V	51.43	53.98	2.55	AV
5470	59.08	5.06	V	64.14	68.20	4.06	PK

Test Plots(UNII 1, 2A, 2C)

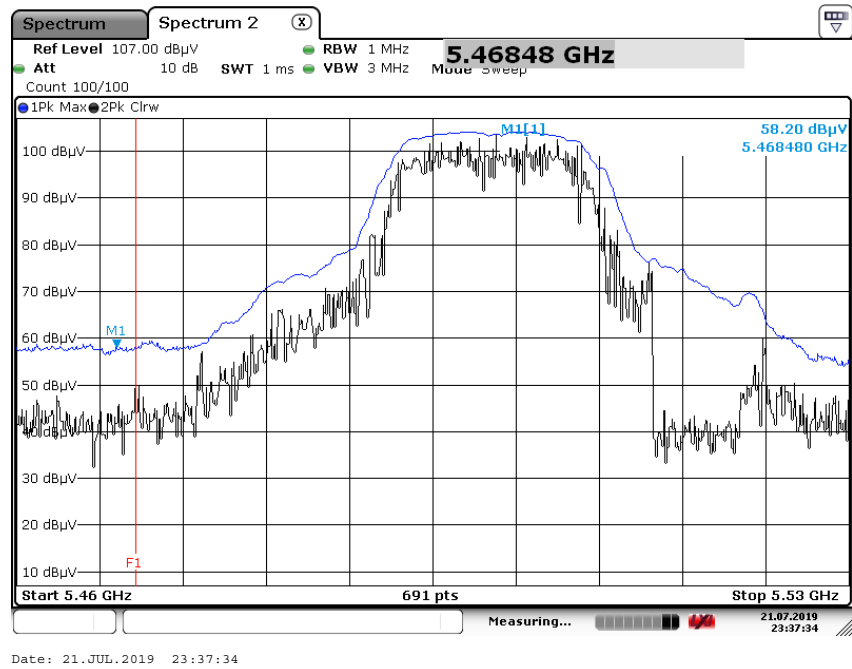
Average Reading (802.11a, Ch.100 , Y-H)



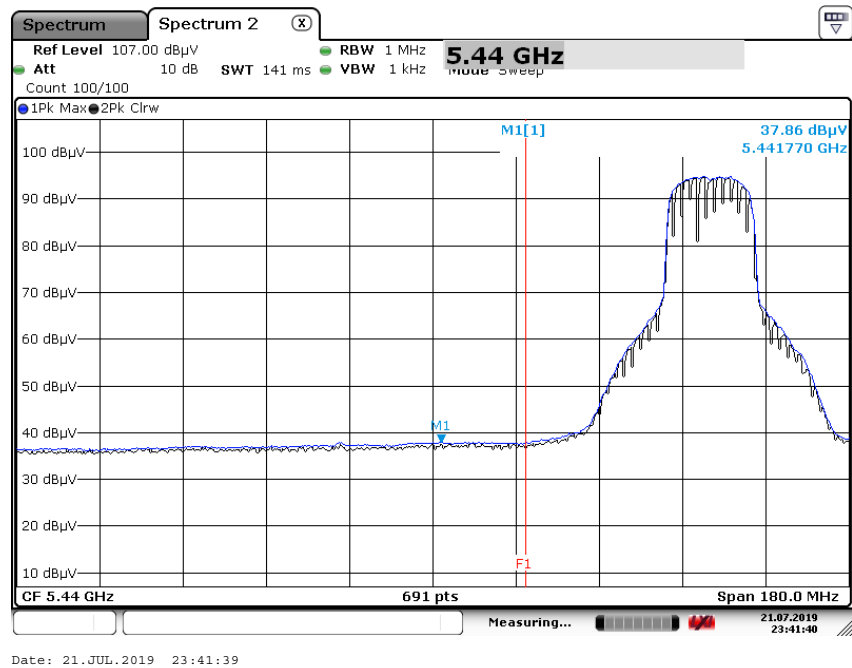
Peak Reading (802.11a, Ch.100 , Y-H)



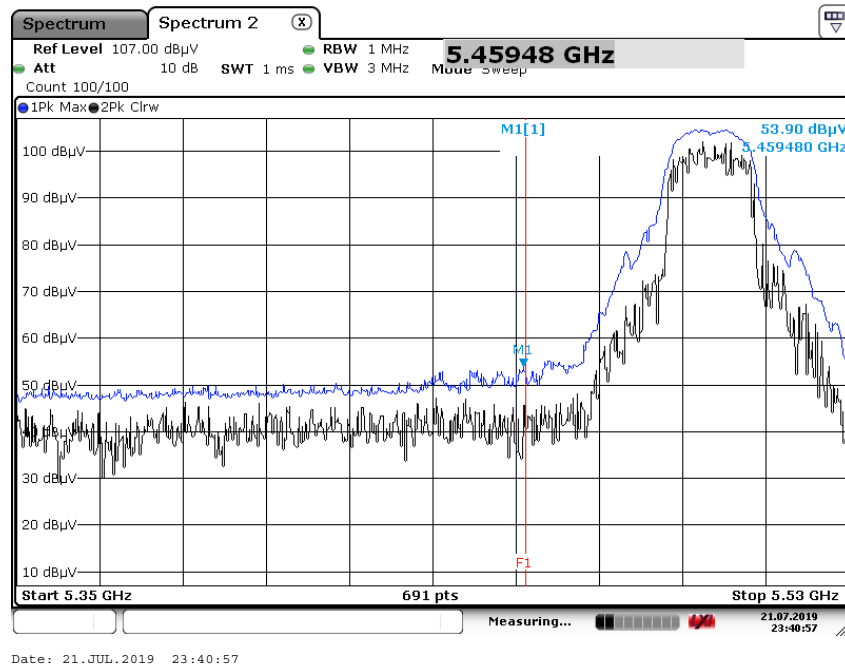
Peak Reading (802.11a, Ch.100 , Y-H)



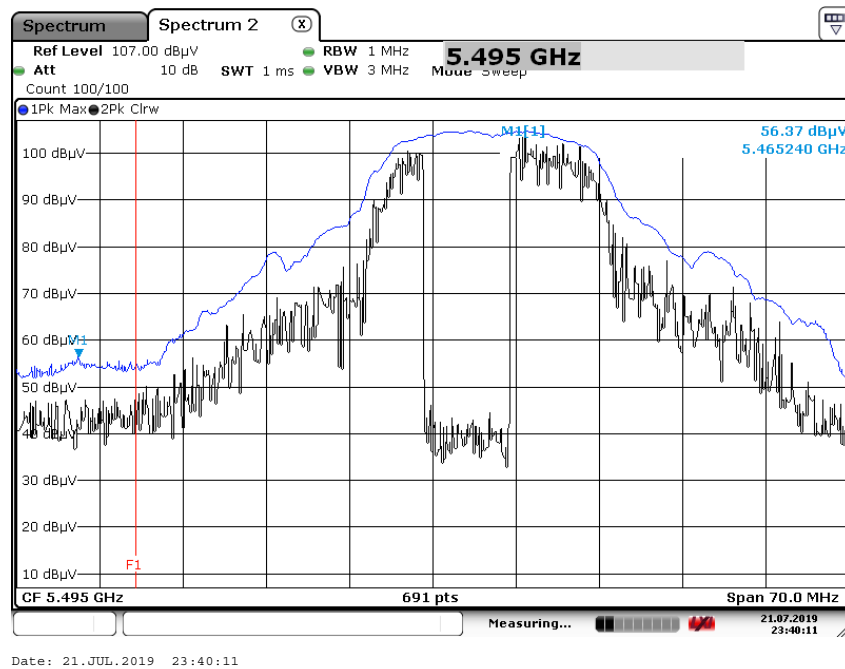
Average Reading (802.11n(HT20), Ch.100 , Y-H)



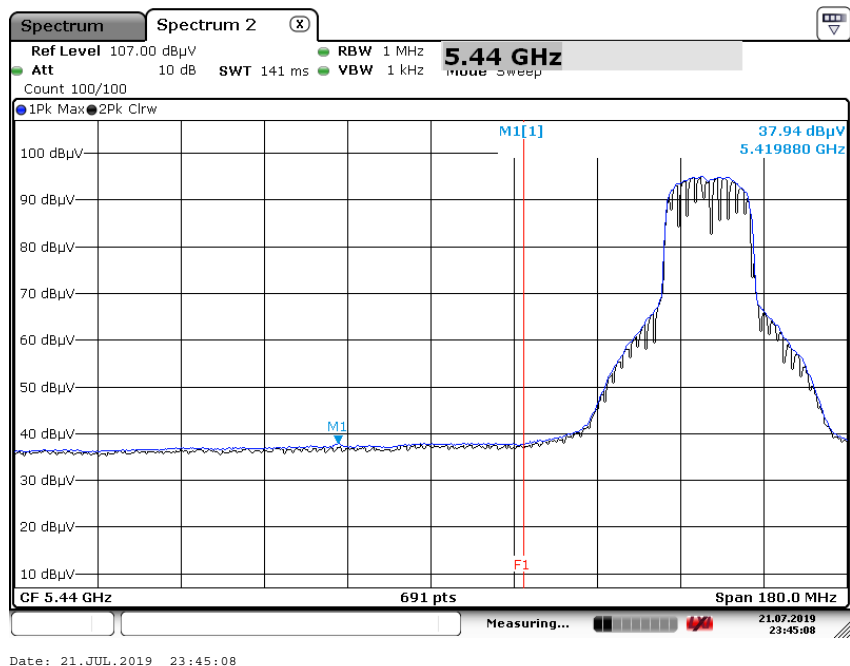
Peak Reading (802.11n(HT20), Ch.100 , Y-H)



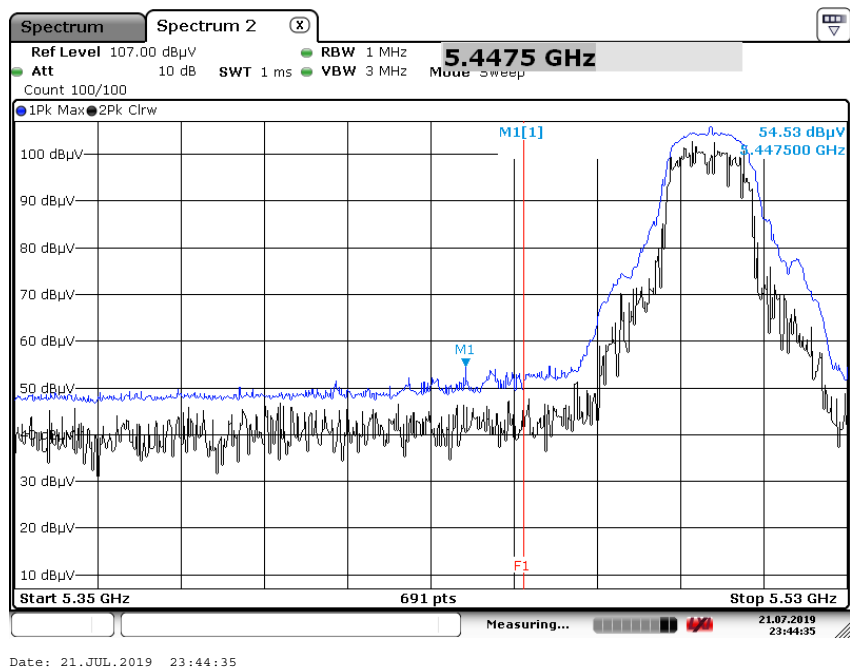
Peak Reading (802.11n(HT20), Ch.100 , Y-H)



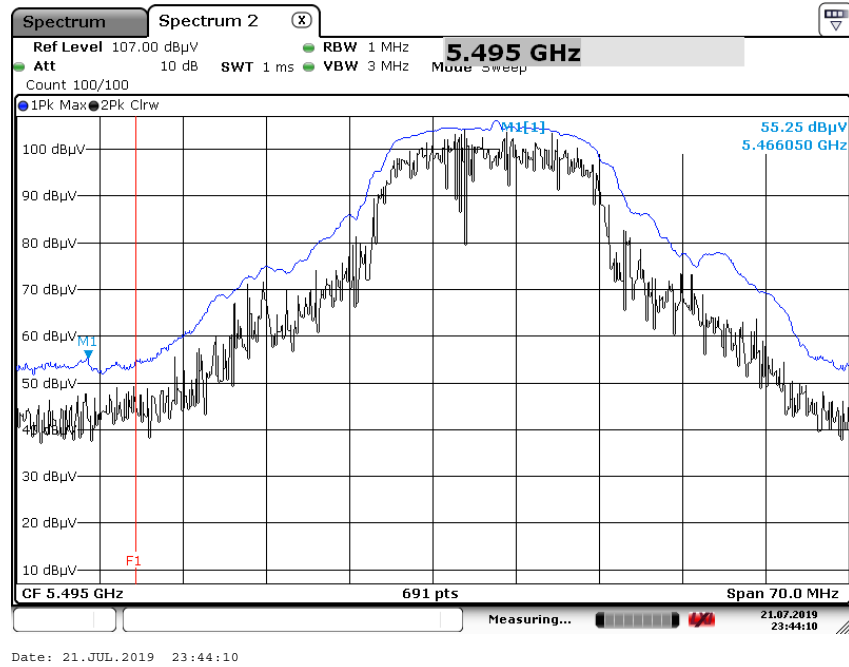
(802.11ac(VHT20), Ch.100, Y-H)



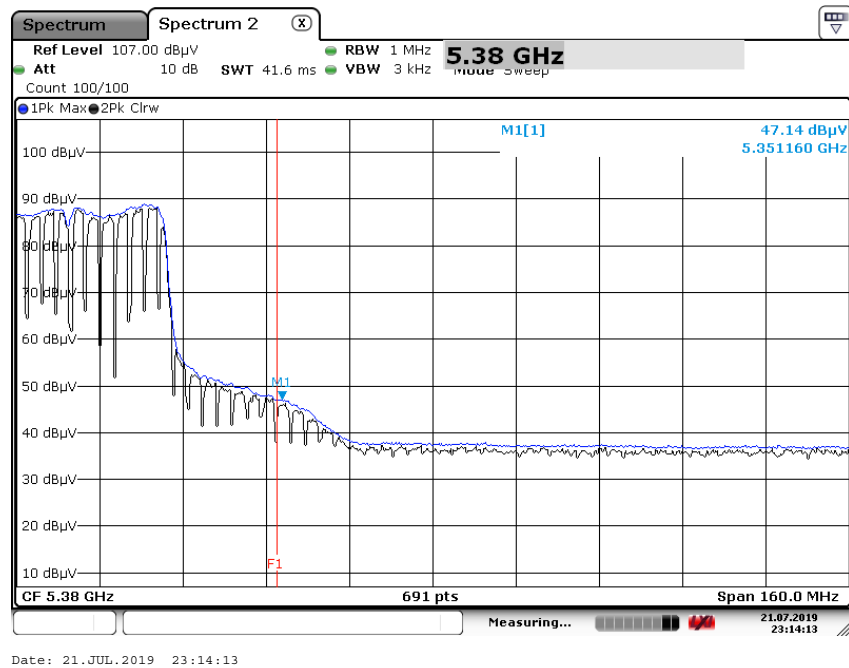
Peak Reading (802.11ac(VHT20), Ch.100, Y-H)



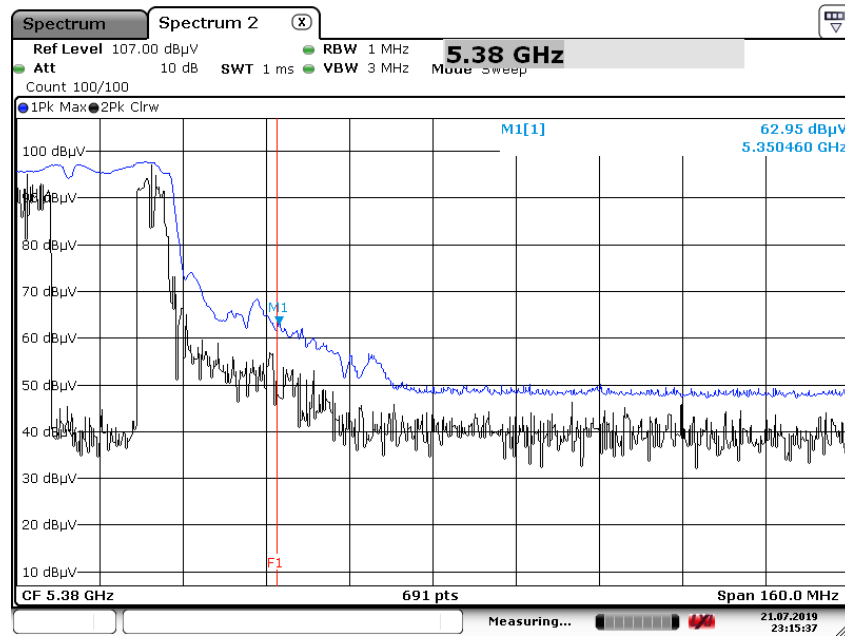
Peak Reading (802.11ac(VHT20), Ch.100 , Y-H)



Average Reading (802.11n(HT40), Ch.62 , Y-H)

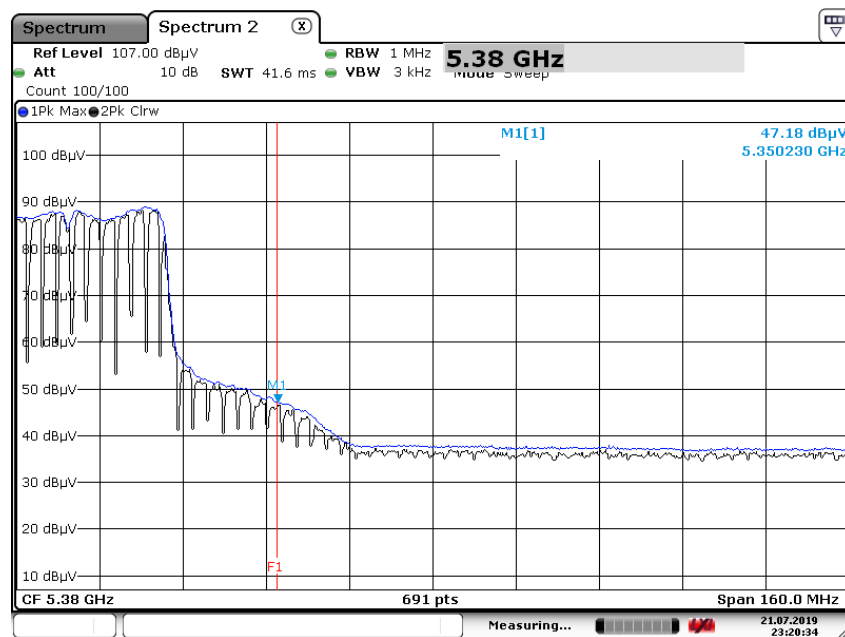


Peak Reading (802.11n(HT40), Ch.62 , Y-H)



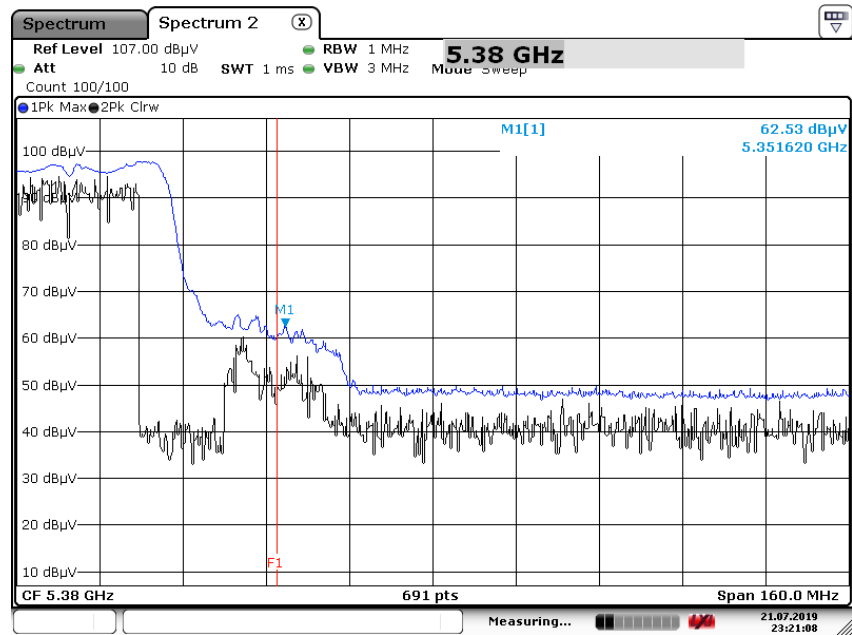
Date: 21.JUL.2019 23:15:37

Average Reading (802.11ac(VHT40), Ch.62 , Y-H)



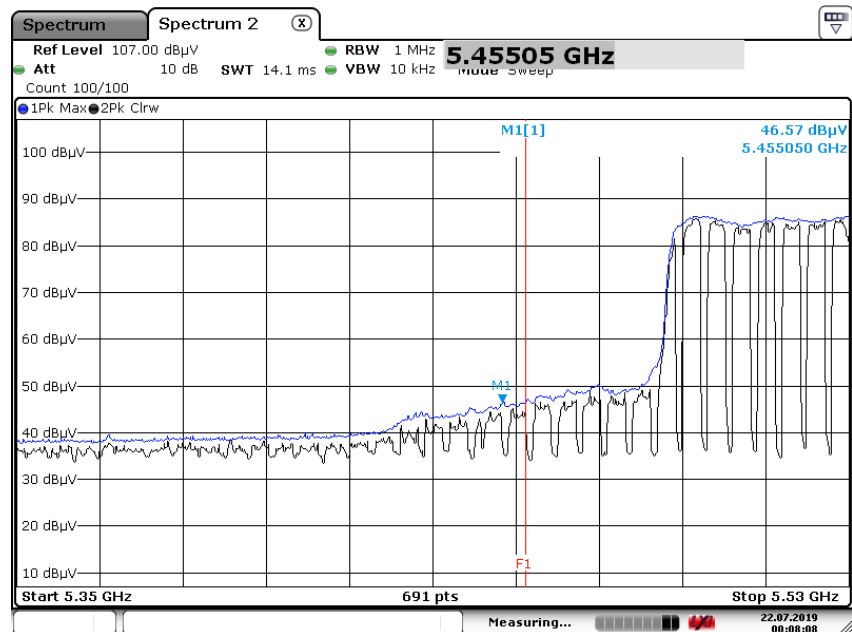
Date: 21.JUL.2019 23:20:34

Peak Reading (802.11ac(VHT40), Ch.62 , Y-H)



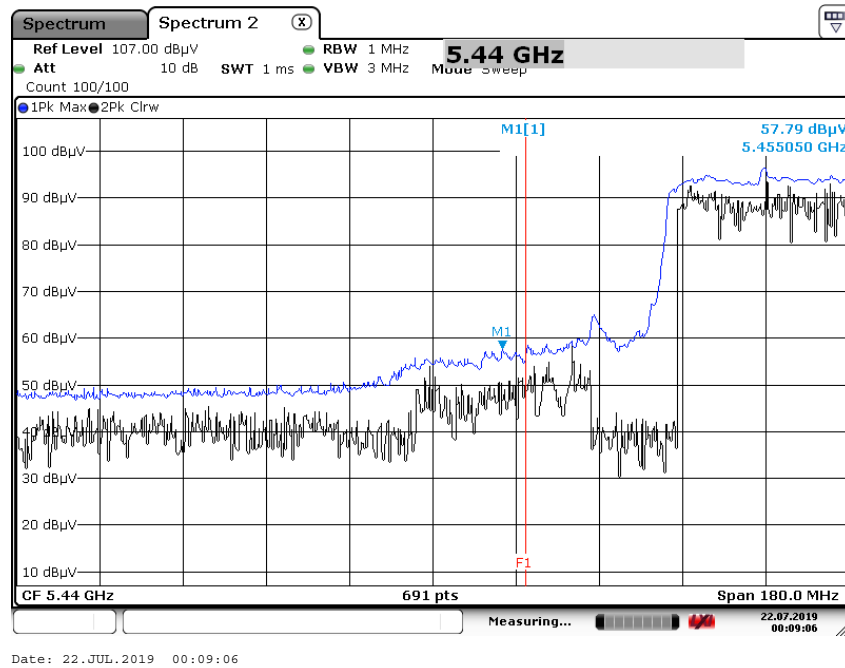
Date: 21.JUL.2019 23:21:08

Average Reading (802.11ac(VHT80), Ch.106 , Y-H)

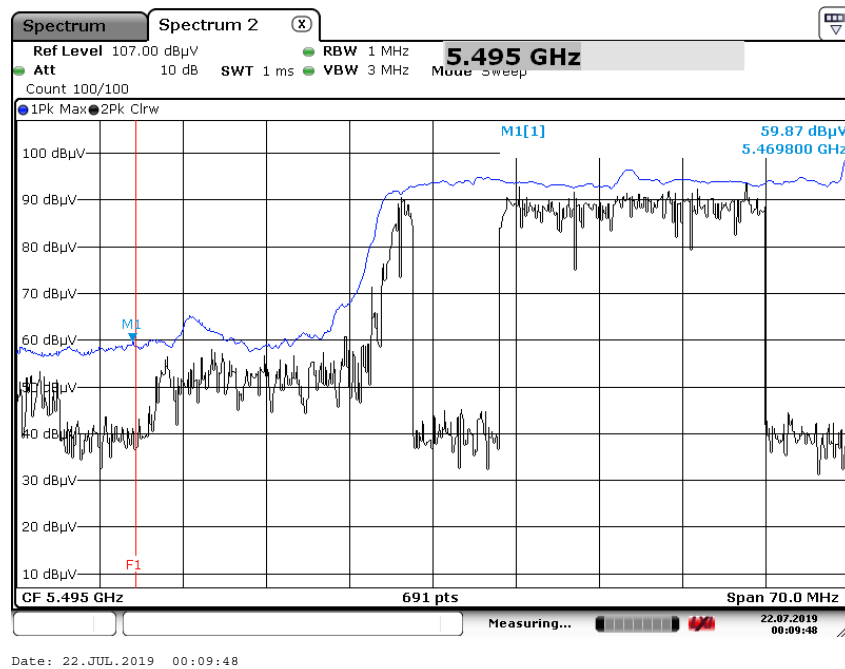


Date: 22.JUL.2019 00:08:08

Peak Reading (802.11ac(VHT80), Ch.106 , Y-H)



Peak Reading (802.11ac(VHT80), Ch.106 , Y-H)

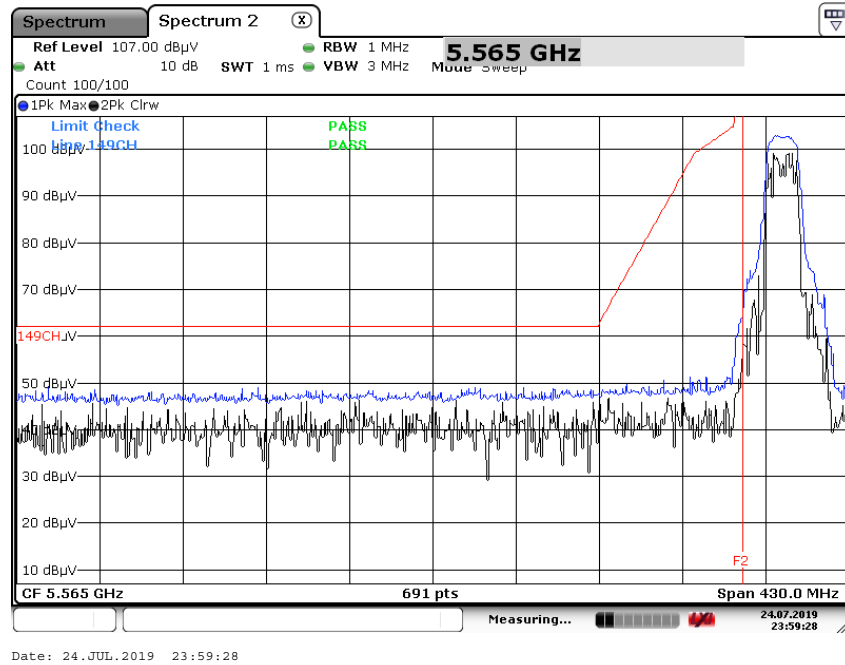


Note:

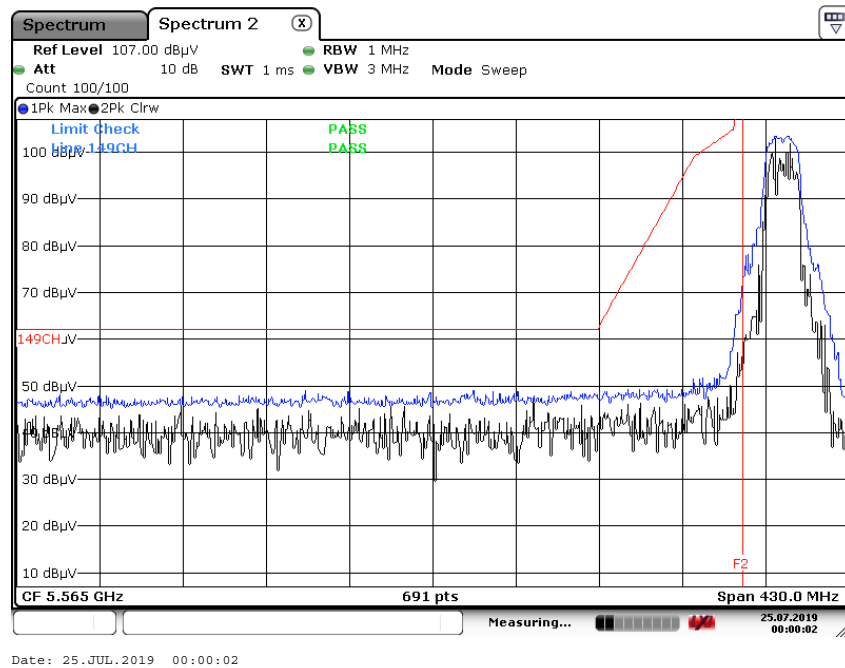
Only the worst case plots for Radiated Restricted Band Edge.

Test Plots(UNII 3)

Peak Reading (802.11a, Ch.149, Z-V)



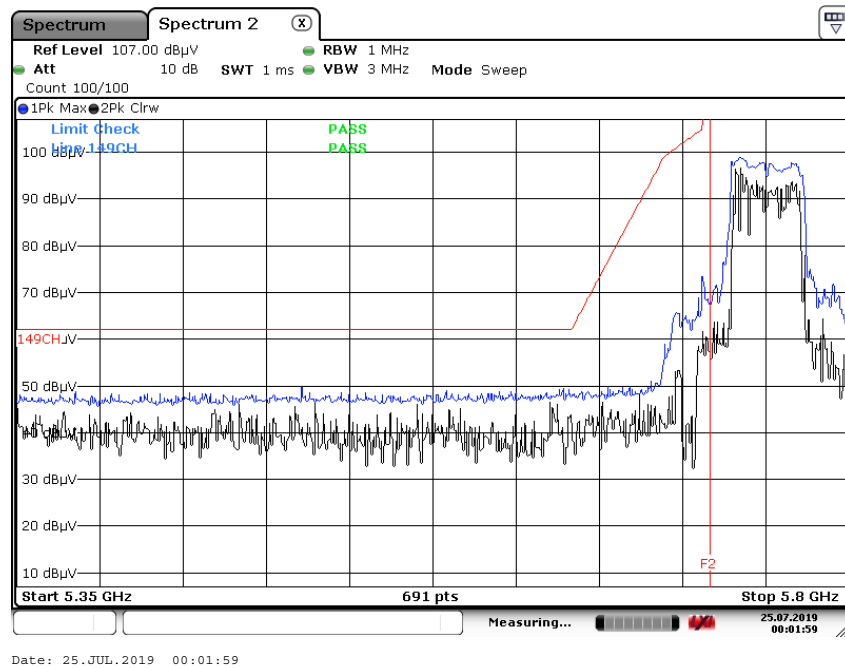
Peak Reading (802.11n_HT20, Ch.149, Z-V)



Peak Reading (802.11ac_VHT20, Ch.149, Z-V)



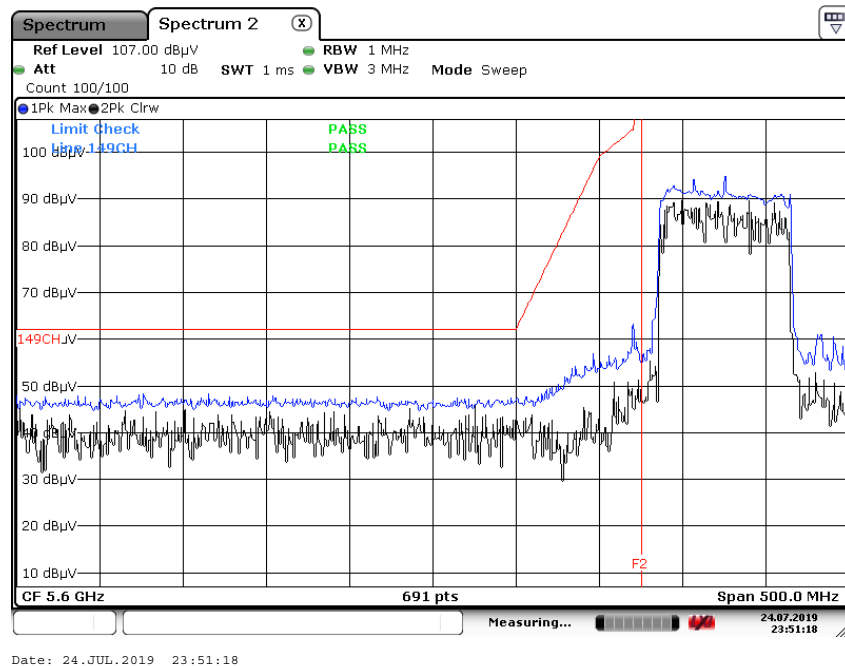
Peak Reading (802.11n_HT40, Ch.151, Z-V)



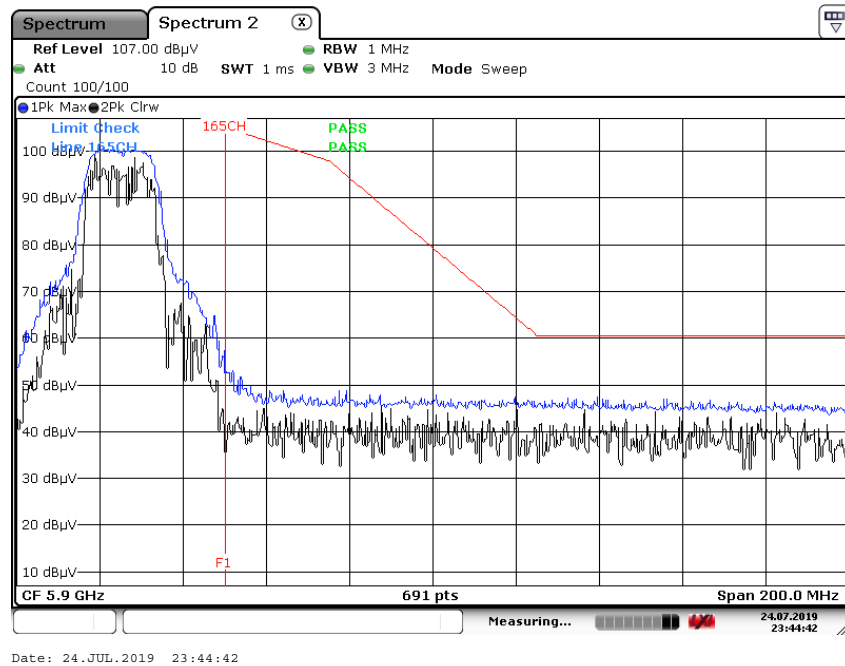
Peak Reading (802.11ac_VHT40, Ch.151, Z-V)



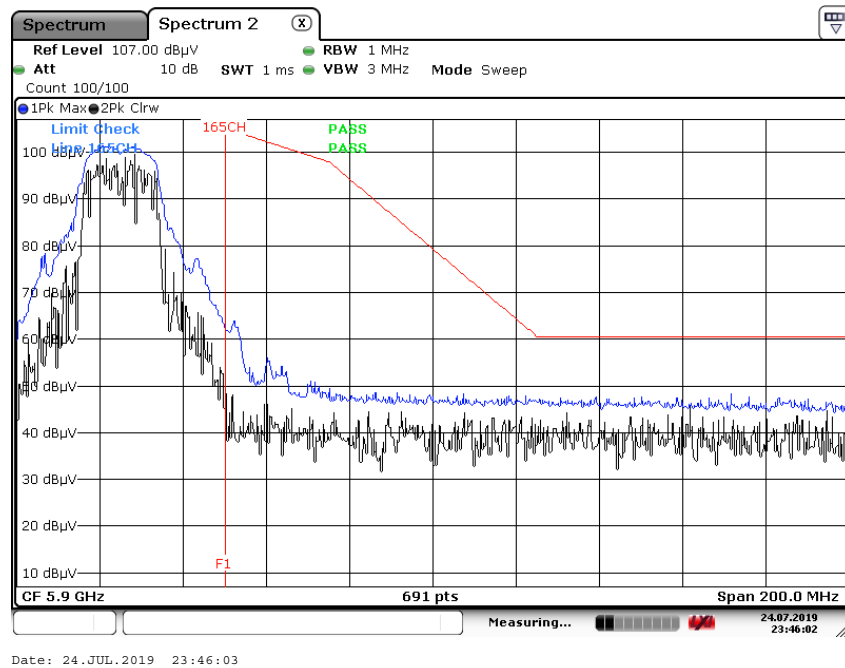
Peak Reading (802.11ac_VHT80, Ch.155, Z-V)



Peak Reading (802.11a, Ch.165, Z-V)



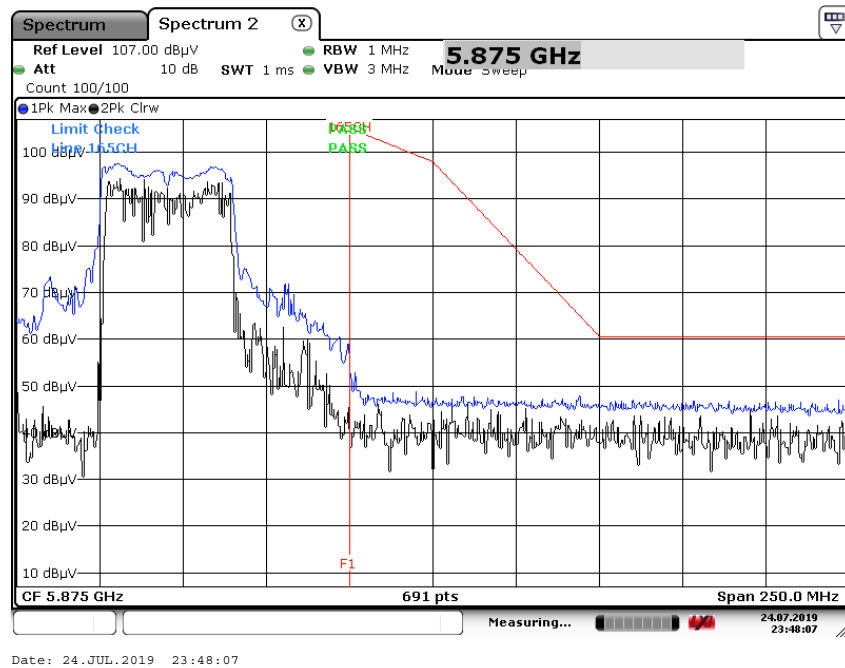
Peak Reading (802.11n_HT20, Ch.165, Z-V)



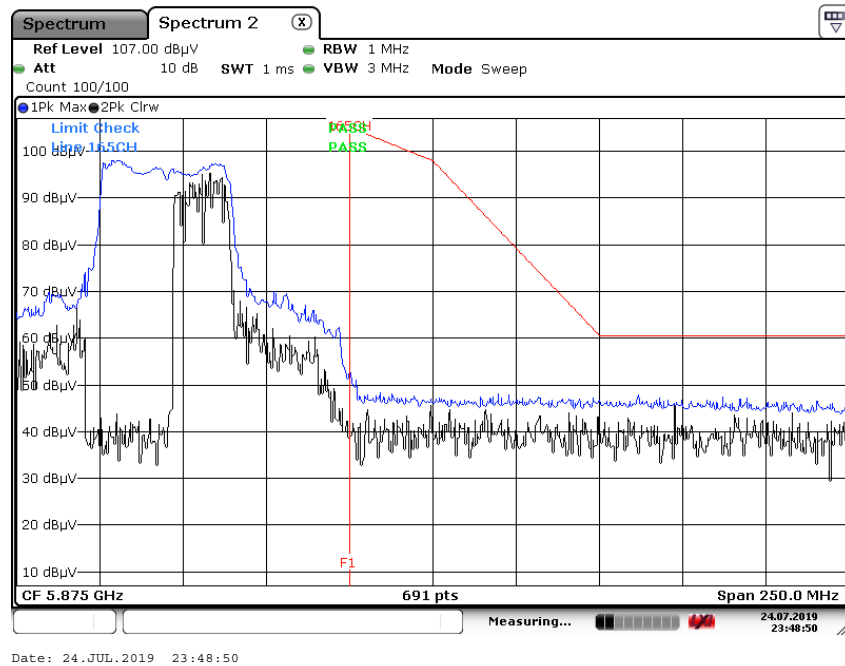
Peak Reading (802.11ac_VHT20, Ch.165, Z-V)



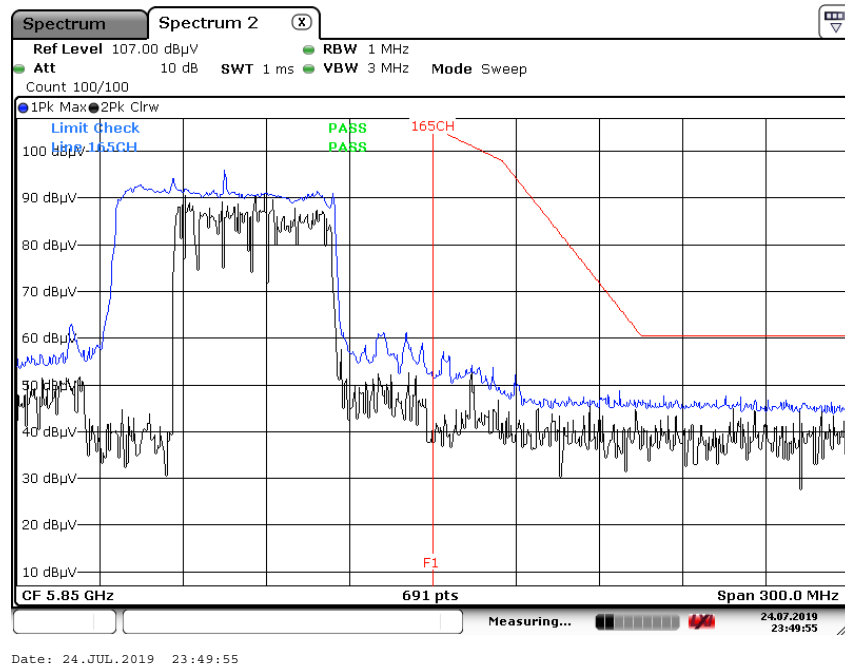
Peak Reading (802.11n_HT40, Ch.159, Z-V)



Peak Reading (802.11ac_VHT40, Ch.159, Z-V)



Peak Reading (802.11ac_VHT80, Ch.155, Z-V)



10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

5G WLAN MODE L1

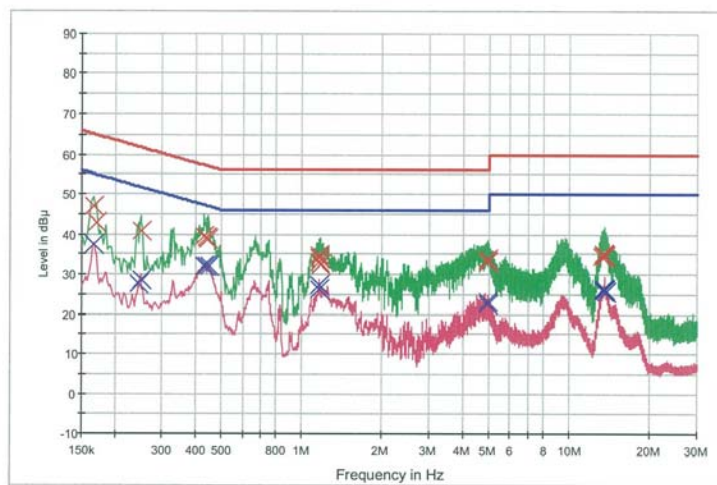
1 / 2

HCT TEST Report

Common Information

EUT: SM-A507FN/DS
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G WLAN MODE L1

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	46.9	9.000	Off	L1	9.7	18.2	65.2
0.170000	43.0	9.000	Off	L1	9.7	21.9	65.0
0.250000	40.7	9.000	Off	L1	9.7	21.0	61.8
0.432000	39.4	9.000	Off	L1	9.7	17.9	57.2
0.440000	39.0	9.000	Off	L1	9.7	18.1	57.1
0.446000	38.8	9.000	Off	L1	9.7	18.2	56.9
1.160000	33.2	9.000	Off	L1	9.8	22.8	56.0
1.164000	34.2	9.000	Off	L1	9.8	21.8	56.0
1.168000	34.7	9.000	Off	L1	9.8	21.3	56.0
1.176000	32.5	9.000	Off	L1	9.8	23.5	56.0
4.926000	33.9	9.000	Off	L1	10.0	22.1	56.0
4.934000	33.0	9.000	Off	L1	10.0	23.0	56.0
13.298000	34.5	9.000	Off	L1	10.3	25.5	60.0
13.430000	34.7	9.000	Off	L1	10.4	25.3	60.0
13.448000	34.9	9.000	Off	L1	10.4	25.1	60.0
13.458000	35.1	9.000	Off	L1	10.4	24.9	60.0
13.474000	34.8	9.000	Off	L1	10.4	25.2	60.0
13.508000	34.3	9.000	Off	L1	10.4	25.7	60.0

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5G WLAN MODE L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.166000	37.5	9.000	Off	L1	9.7	17.6	55.2
0.244000	27.6	9.000	Off	L1	9.7	24.4	52.0
0.250000	28.6	9.000	Off	L1	9.7	23.2	51.8
0.432000	31.9	9.000	Off	L1	9.7	15.3	47.2
0.440000	31.9	9.000	Off	L1	9.7	15.2	47.1
0.448000	31.9	9.000	Off	L1	9.7	15.0	46.9
1.160000	26.2	9.000	Off	L1	9.8	19.8	46.0
1.164000	27.1	9.000	Off	L1	9.8	18.9	46.0
1.168000	27.2	9.000	Off	L1	9.8	18.8	46.0
4.926000	23.1	9.000	Off	L1	10.0	22.9	46.0
4.930000	22.5	9.000	Off	L1	10.0	23.5	46.0
4.934000	22.7	9.000	Off	L1	10.0	23.3	46.0
13.378000	25.9	9.000	Off	L1	10.4	24.1	50.0
13.448000	26.2	9.000	Off	L1	10.4	23.8	50.0
13.458000	26.3	9.000	Off	L1	10.4	23.7	50.0
13.474000	26.3	9.000	Off	L1	10.4	23.7	50.0
13.614000	26.0	9.000	Off	L1	10.4	24.0	50.0
13.720000	25.6	9.000	Off	L1	10.4	24.4	50.0

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Conducted Emissions (Line 2)

5G WLAN MODE N

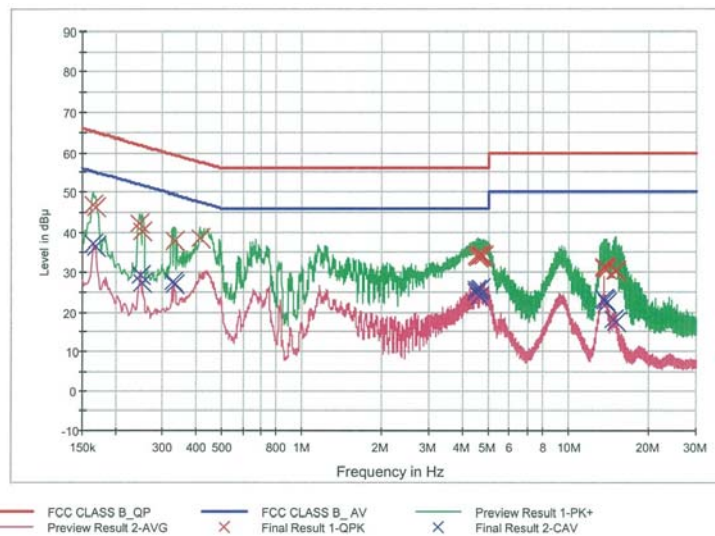
1 / 2

HCT TEST Report

Common Information

EUT: SM-A507FN/DS
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G WLAN MODE N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.164000	47.0	9.000	Off	N	9.8	18.2	65.3
0.168000	46.1	9.000	Off	N	9.8	19.0	65.1
0.246000	42.1	9.000	Off	N	9.9	19.8	61.9
0.252000	40.1	9.000	Off	N	9.9	21.6	61.7
0.332000	37.7	9.000	Off	N	9.9	21.7	59.4
0.414000	38.3	9.000	Off	N	9.9	19.2	57.6
4.534000	34.2	9.000	Off	N	10.2	21.8	56.0
4.546000	33.8	9.000	Off	N	10.2	22.2	56.0
4.594000	34.1	9.000	Off	N	10.2	21.9	56.0
4.662000	34.0	9.000	Off	N	10.2	22.0	56.0
4.676000	34.3	9.000	Off	N	10.2	21.7	56.0
4.756000	34.1	9.000	Off	N	10.2	21.9	56.0
13.476000	31.1	9.000	Off	N	10.6	28.9	60.0
13.492000	31.3	9.000	Off	N	10.6	28.7	60.0
13.662000	31.2	9.000	Off	N	10.6	28.8	60.0
13.808000	30.8	9.000	Off	N	10.6	29.2	60.0
14.902000	30.4	9.000	Off	N	10.7	29.6	60.0
14.964000	30.3	9.000	Off	N	10.7	29.7	60.0

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5G WLAN MODE N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.164000	37.3	9.000	Off	N	9.8	18.0	55.3
0.168000	36.3	9.000	Off	N	9.8	18.7	55.1
0.248000	29.4	9.000	Off	N	9.9	22.4	51.8
0.252000	27.1	9.000	Off	N	9.9	24.6	51.7
0.328000	27.5	9.000	Off	N	9.9	22.0	49.5
0.332000	27.0	9.000	Off	N	9.9	22.4	49.4
4.500000	25.6	9.000	Off	N	10.2	20.4	46.0
4.528000	24.9	9.000	Off	N	10.2	21.1	46.0
4.578000	25.4	9.000	Off	N	10.2	20.6	46.0
4.594000	25.5	9.000	Off	N	10.2	20.5	46.0
4.612000	24.0	9.000	Off	N	10.2	22.0	46.0
4.676000	25.8	9.000	Off	N	10.2	20.2	46.0
13.492000	23.3	9.000	Off	N	10.6	26.7	50.0
13.646000	22.9	9.000	Off	N	10.6	27.1	50.0
13.662000	22.9	9.000	Off	N	10.6	27.1	50.0
13.808000	22.1	9.000	Off	N	10.6	27.9	50.0
14.688000	18.2	9.000	Off	N	10.7	31.8	50.0
14.964000	17.6	9.000	Off	N	10.7	32.4	50.0

2019-07-24

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100033
ESPACE	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9020A / Signal Analyzer	05/24/2019	Annual	MY52090906
Agilent	N9030A / Signal Analyzer	01/10/2019	Annual	MY49431210
Rohde & Schwarz	OSP 120 / Power Measurement Set	07/24/2019	Annual	101231
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	03/22/2019	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	04/29/2019	Biennial	9120D-937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	05/23/2019	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/19/2019	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/15/2019	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/01/2019	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/01/2019	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1908-FC006-P