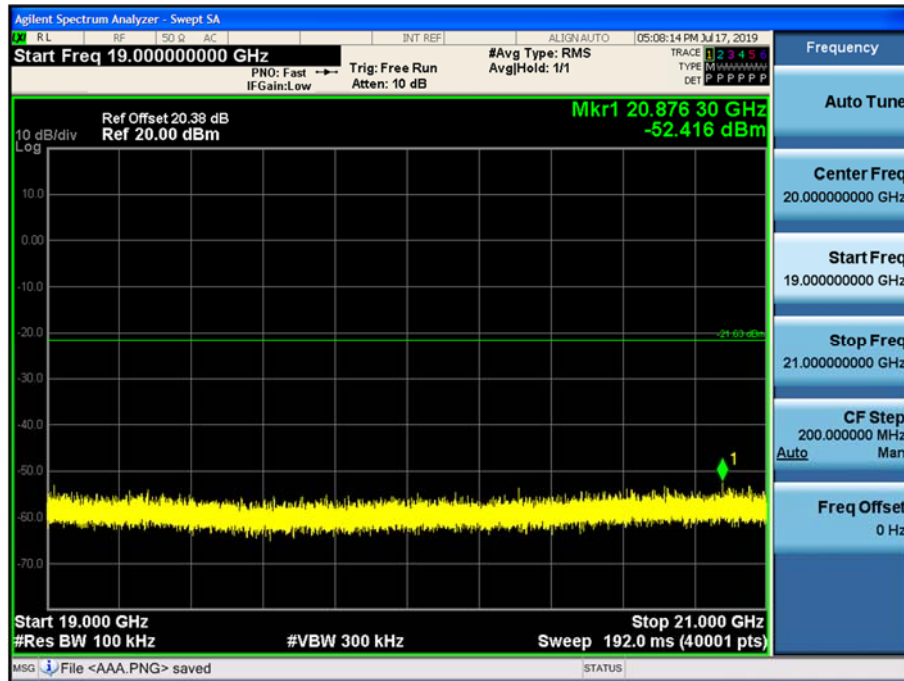


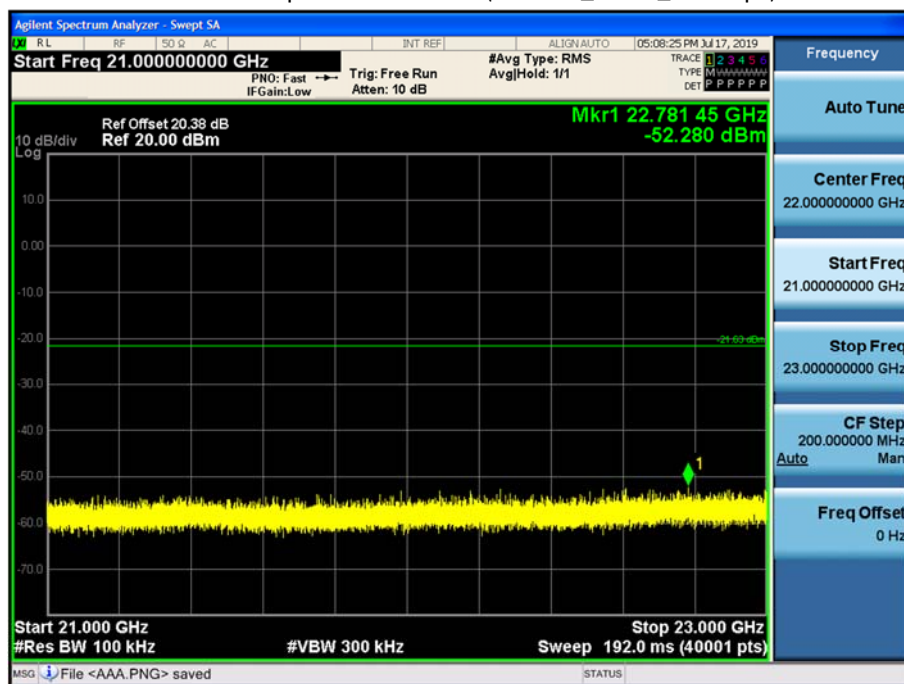
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11b_Ch.11_5.5 Mbps)



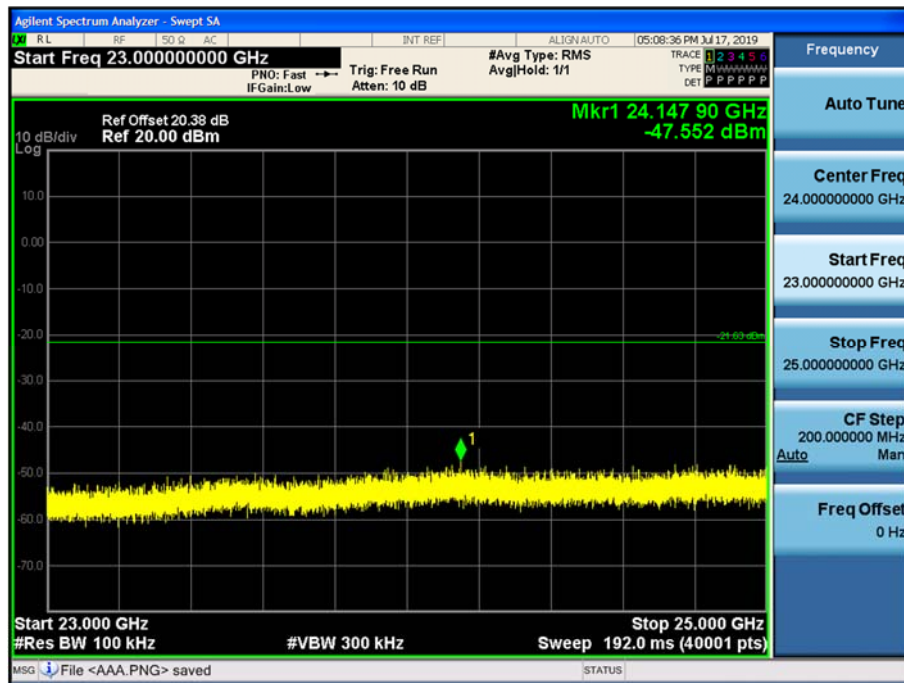
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11b_Ch.11_5.5 Mbps)



23 GHz ~ 25 GHz

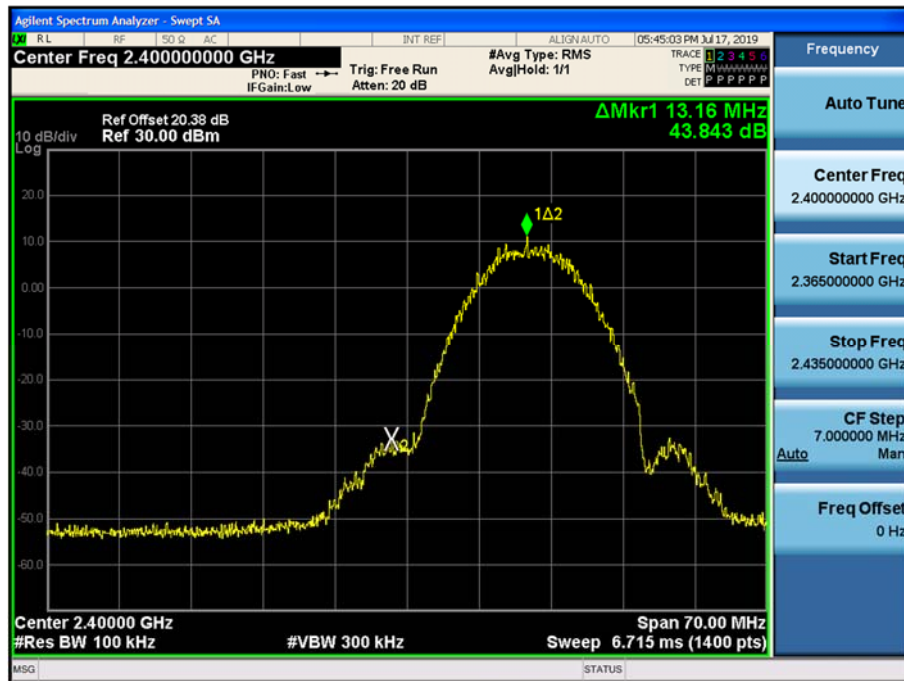
Conducted Spurious Emission (802.11b_Ch.11_5.5 Mbps)



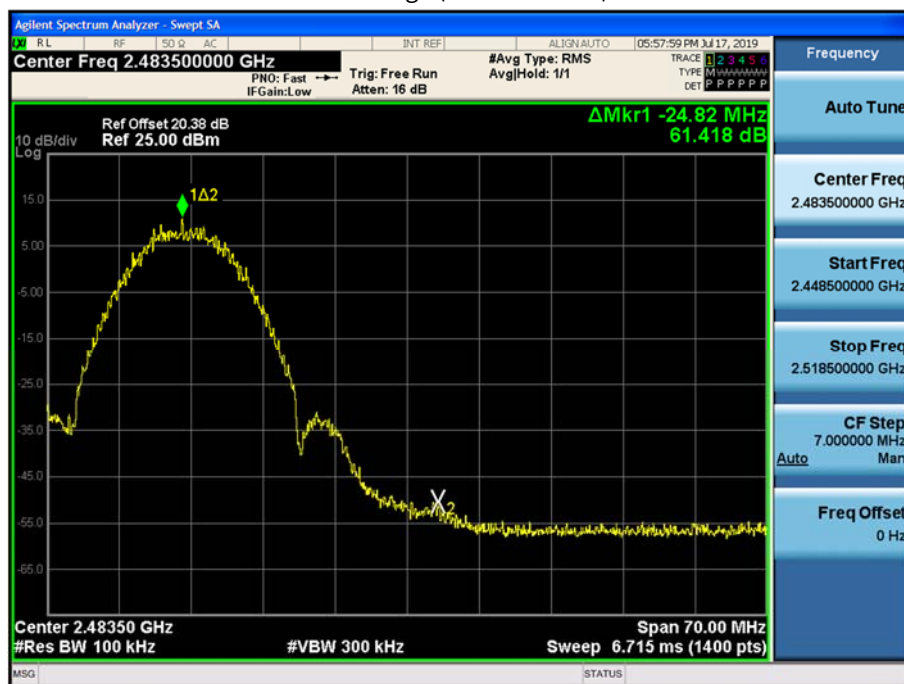
[ANT2]

▣ Test Plots(BandEdge)

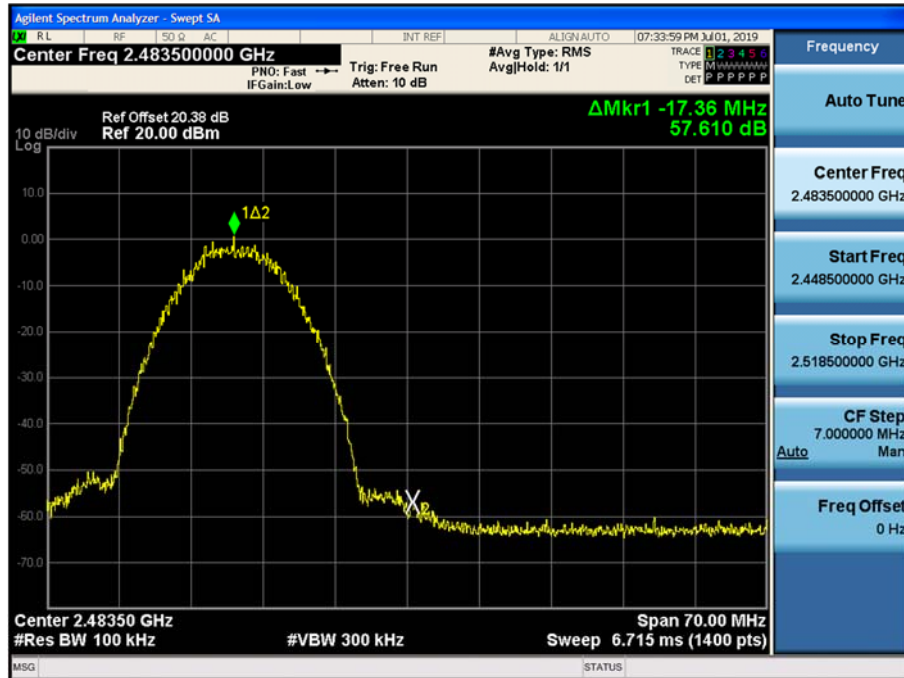
Band Edge (802.11b-CH1)



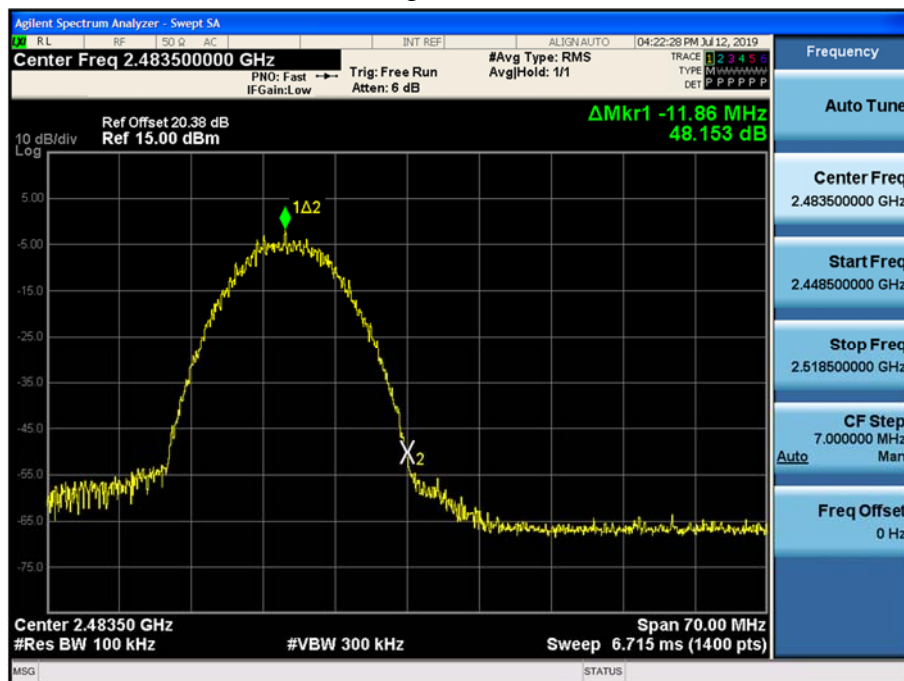
Band Edge (802.11b-CH11)



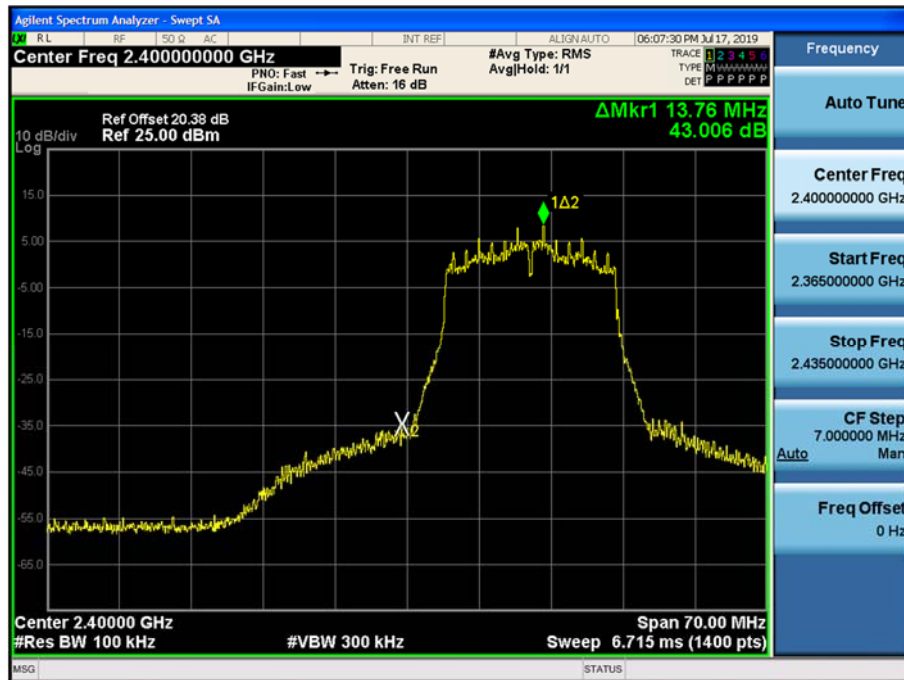
Band Edge (802.11b-CH12)



Band Edge (802.11b-CH13)



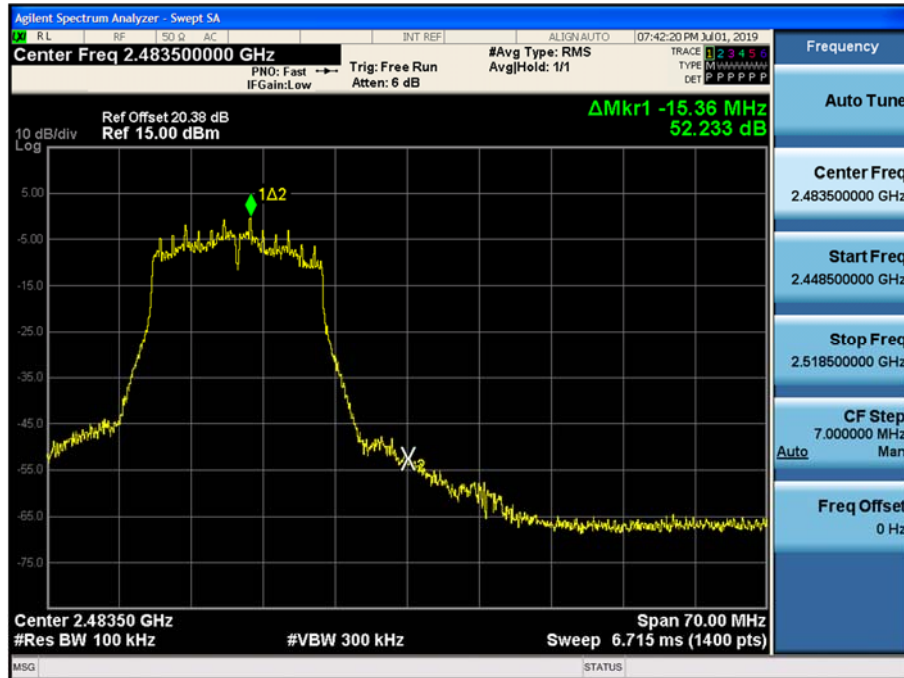
Band Edge (802.11g-CH1)



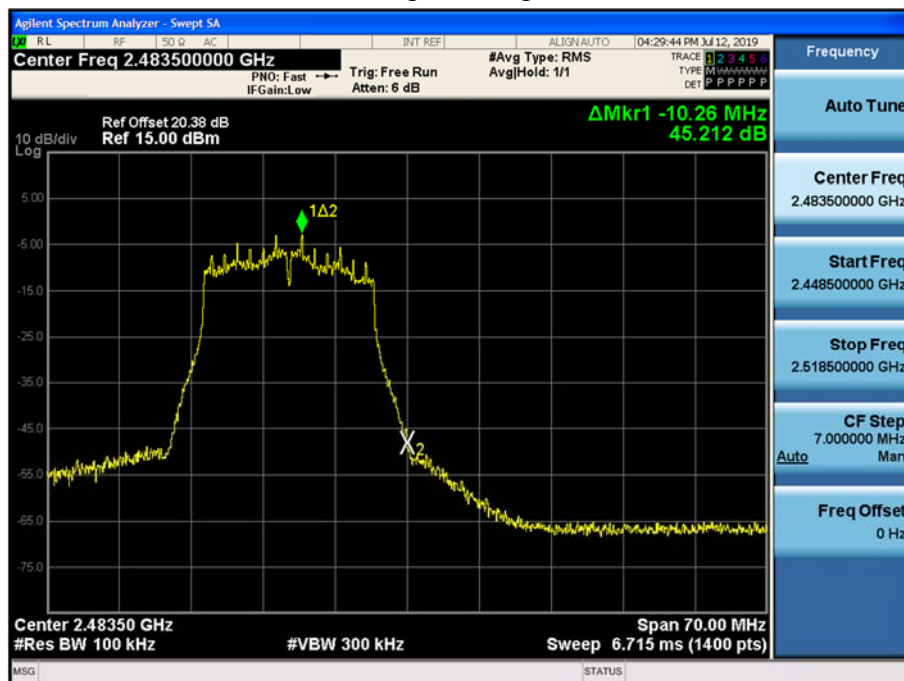
Band Edge (802.11g-CH11)



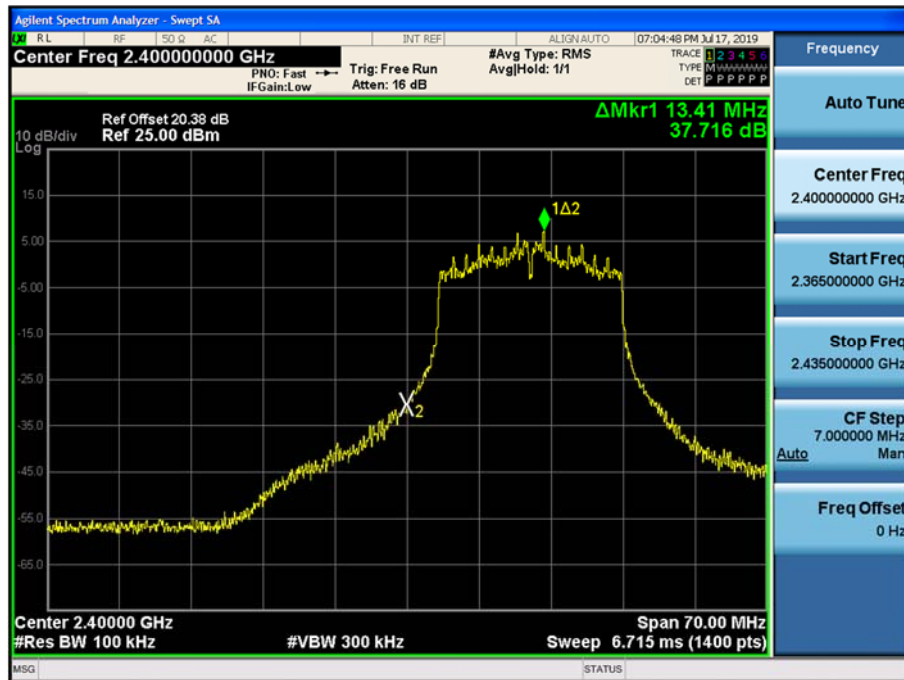
Band Edge (802.11g-CH12)



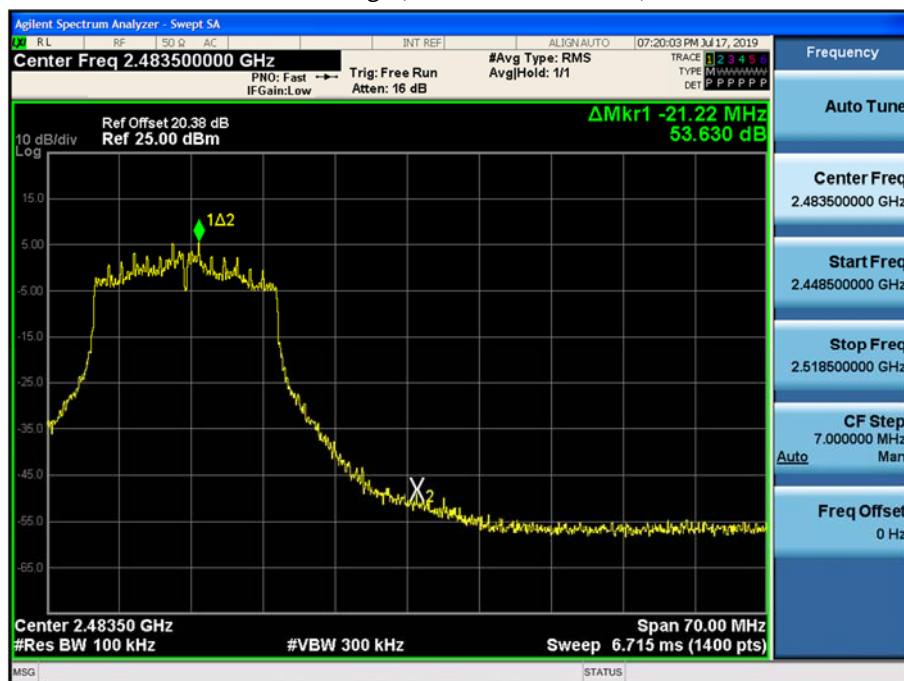
Band Edge (802.11g-CH13)



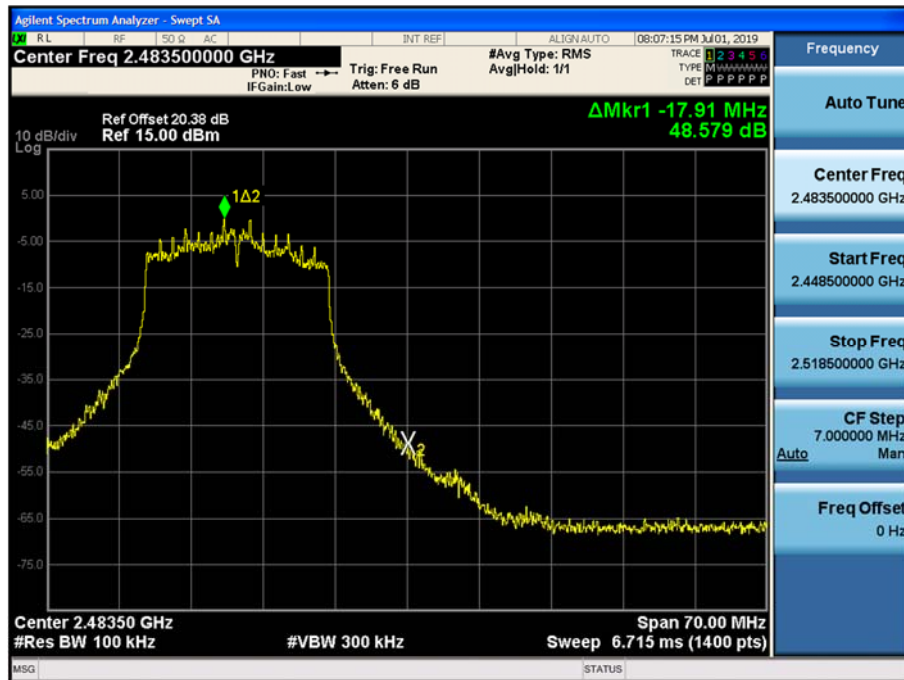
Band Edge (802.11n_HT20 -CH1)



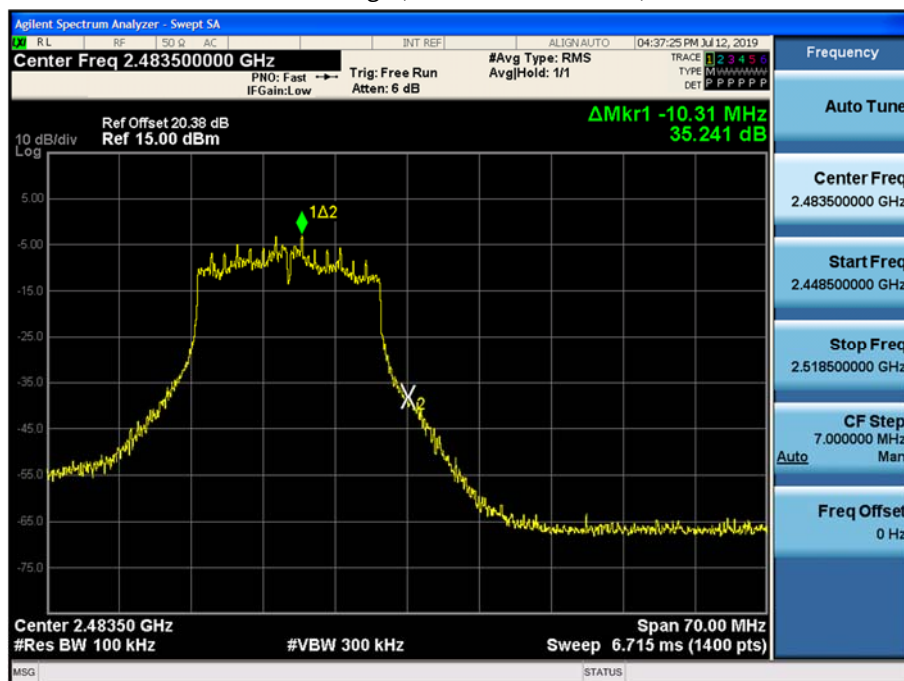
Band Edge (802.11n_HT20 -CH11)



Band Edge (802.11n_HT20 -CH12)



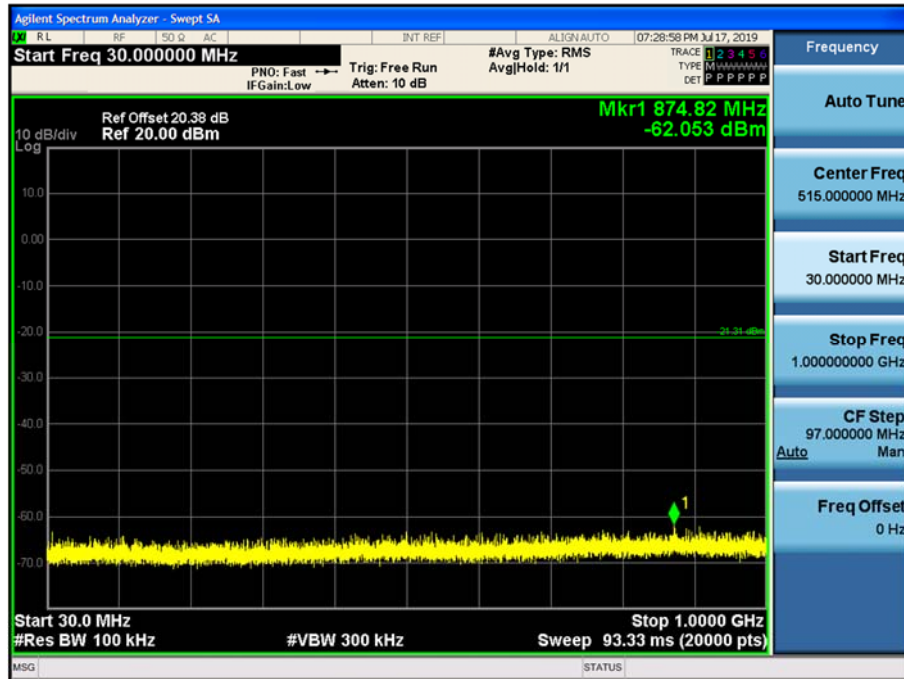
Band Edge (802.11n_HT20 -CH13)



Test Plots(Conducted Spurious Emission)

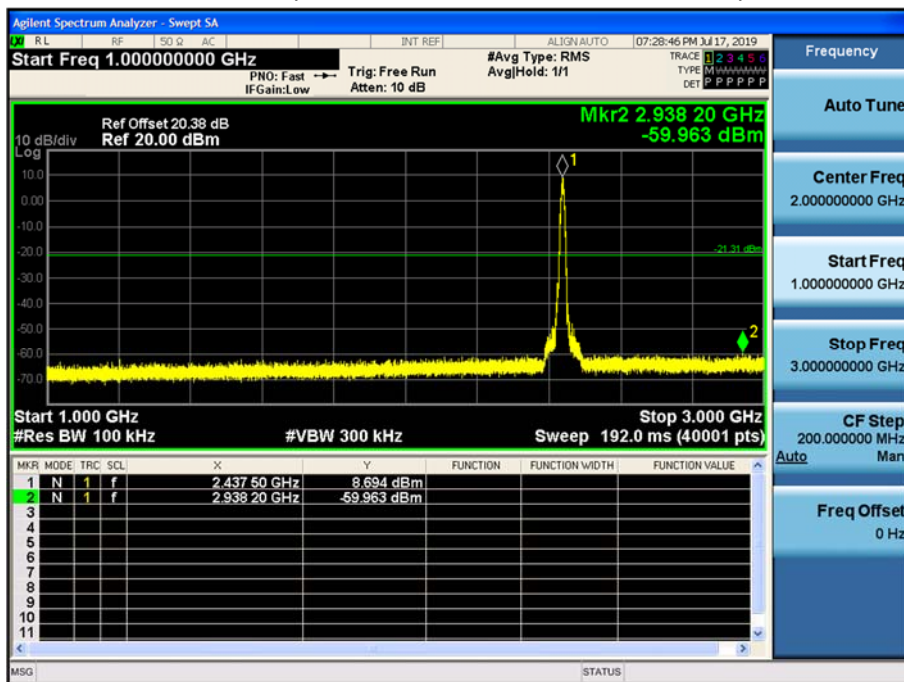
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



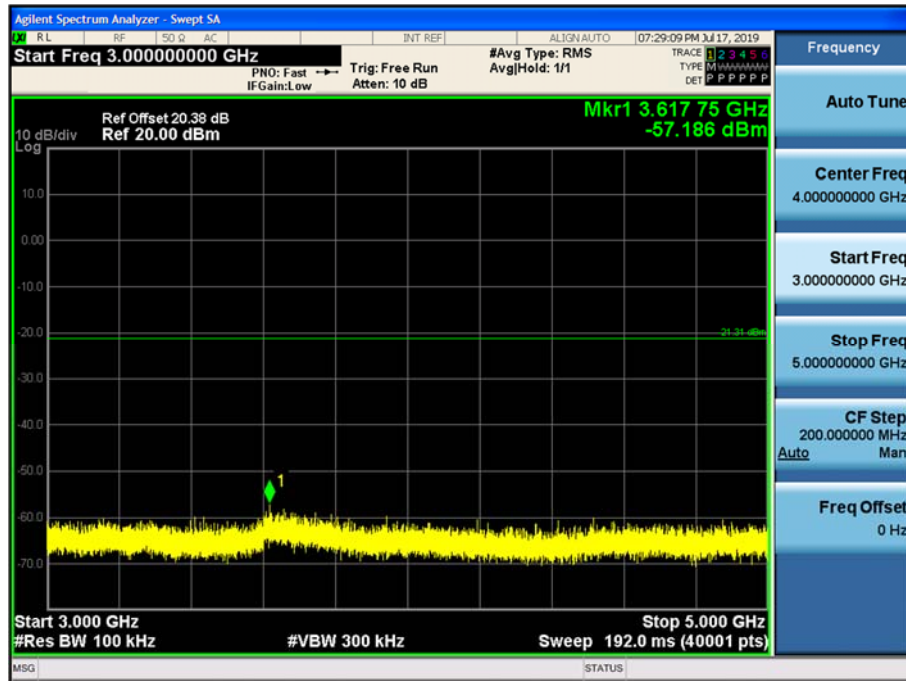
1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



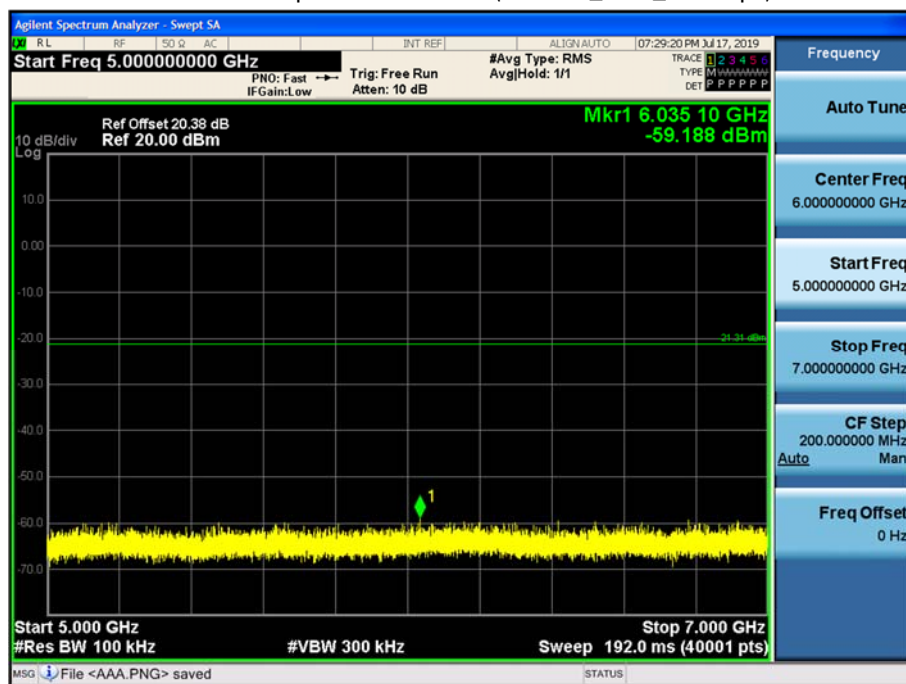
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



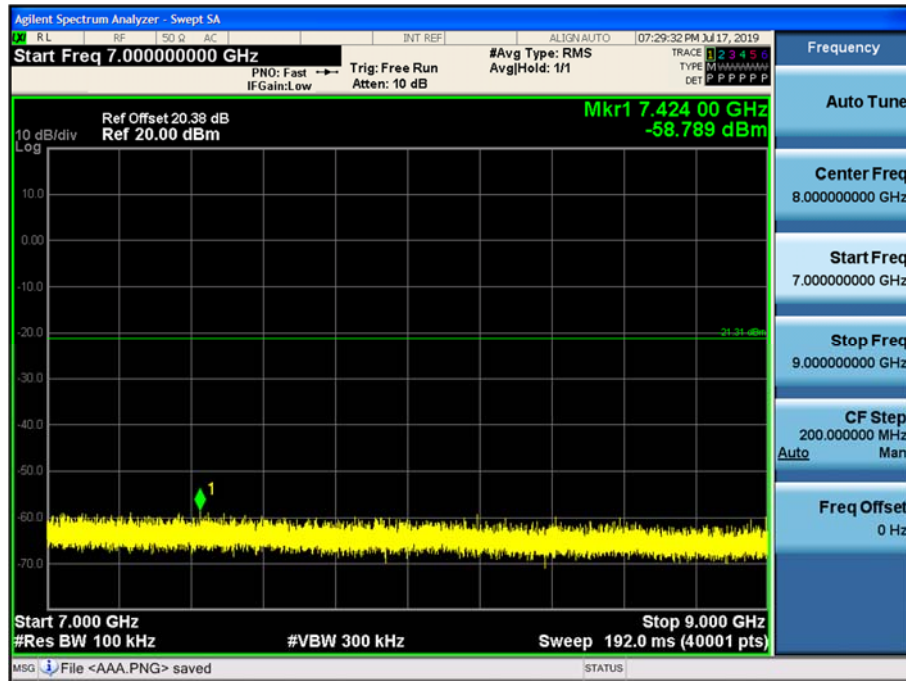
5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



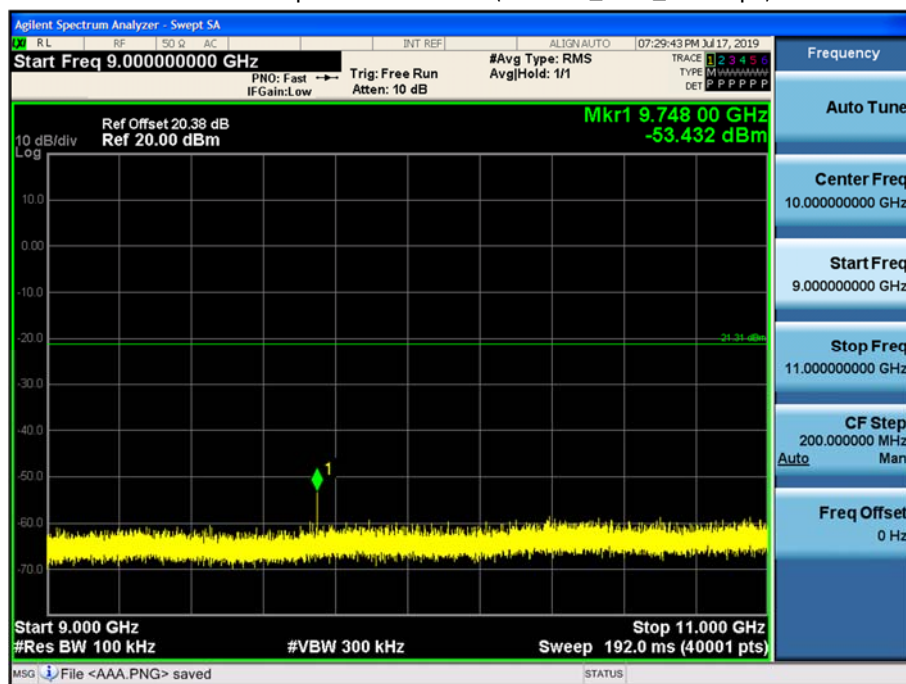
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



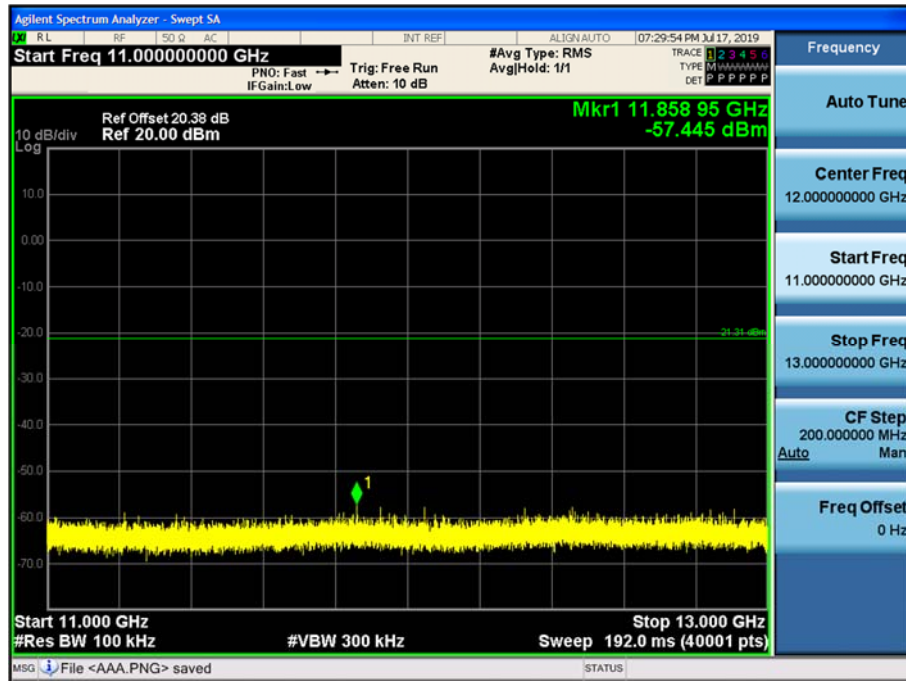
9 GHz ~ 11 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



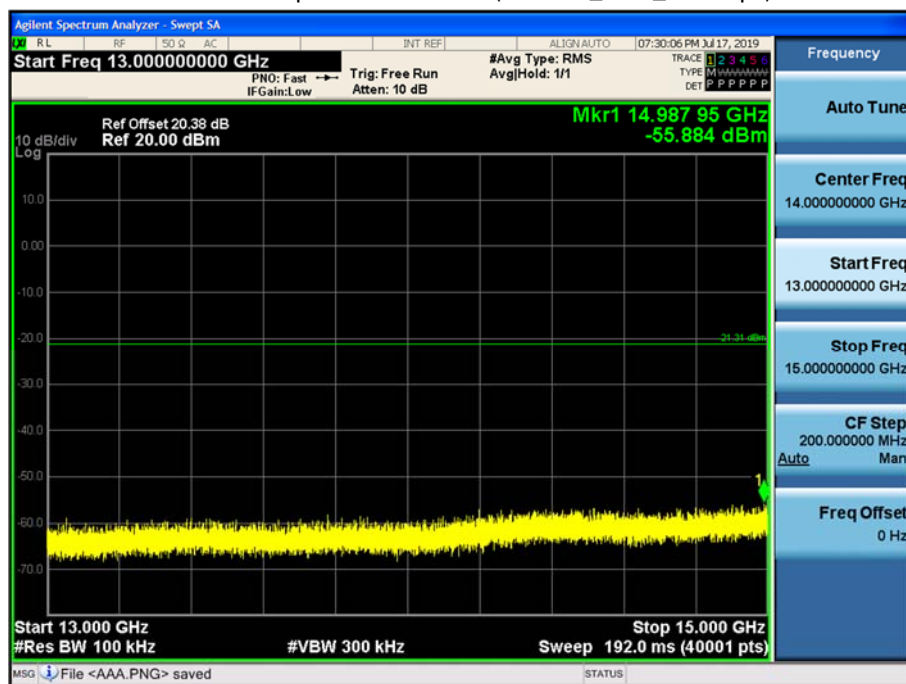
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



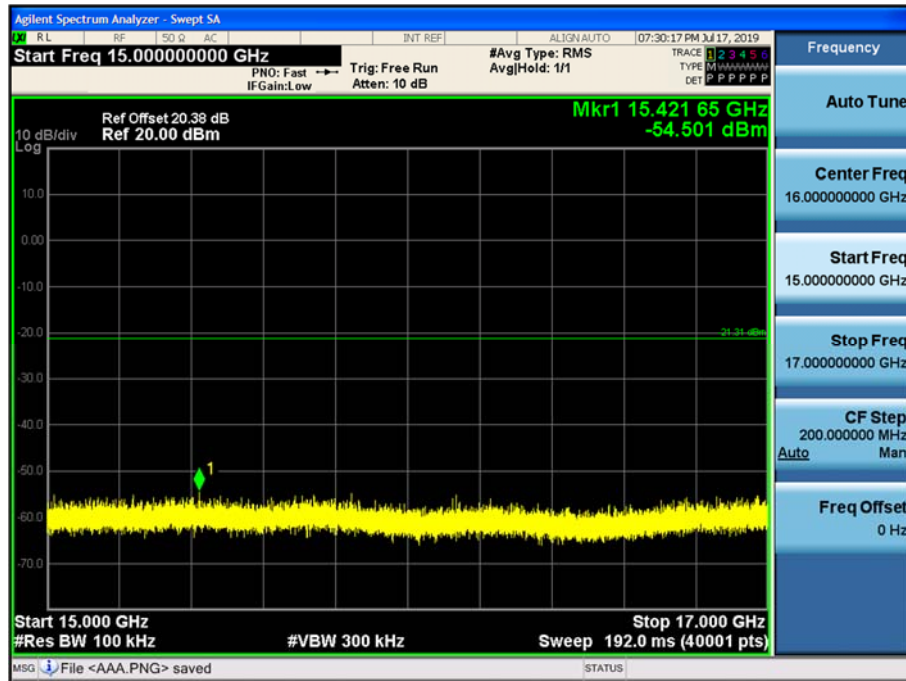
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



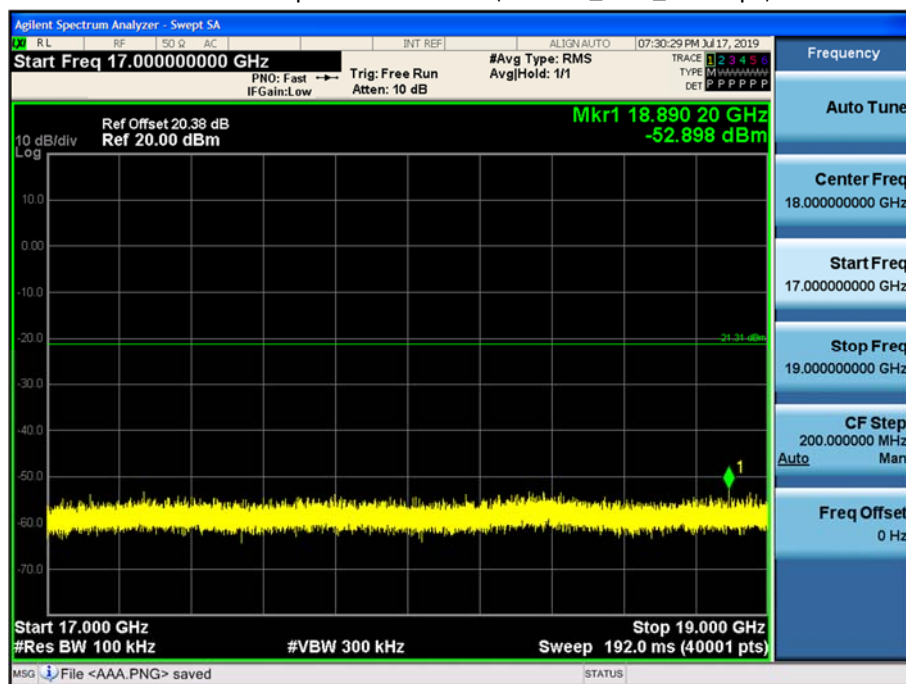
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



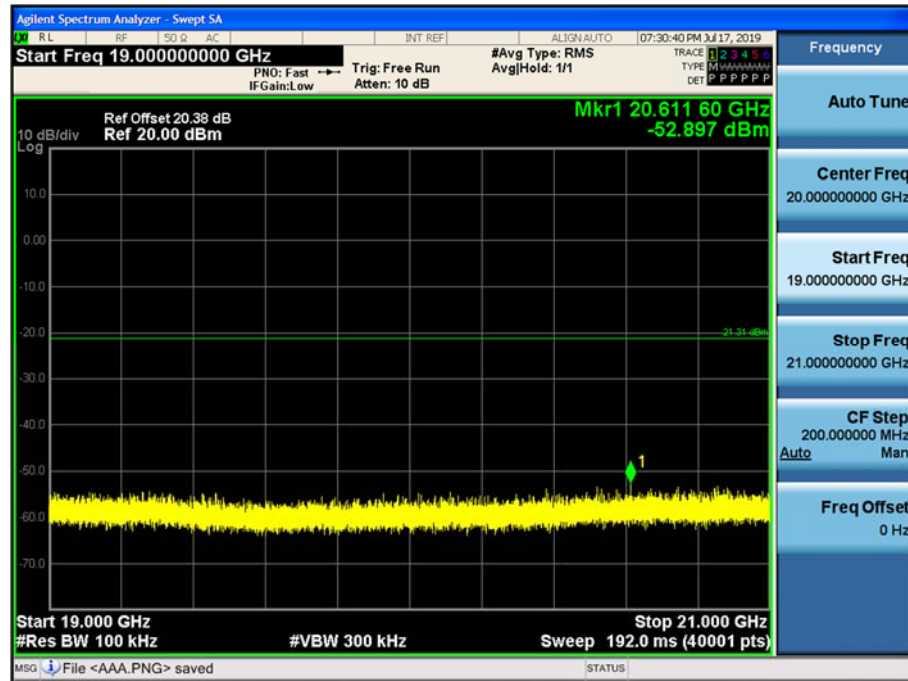
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



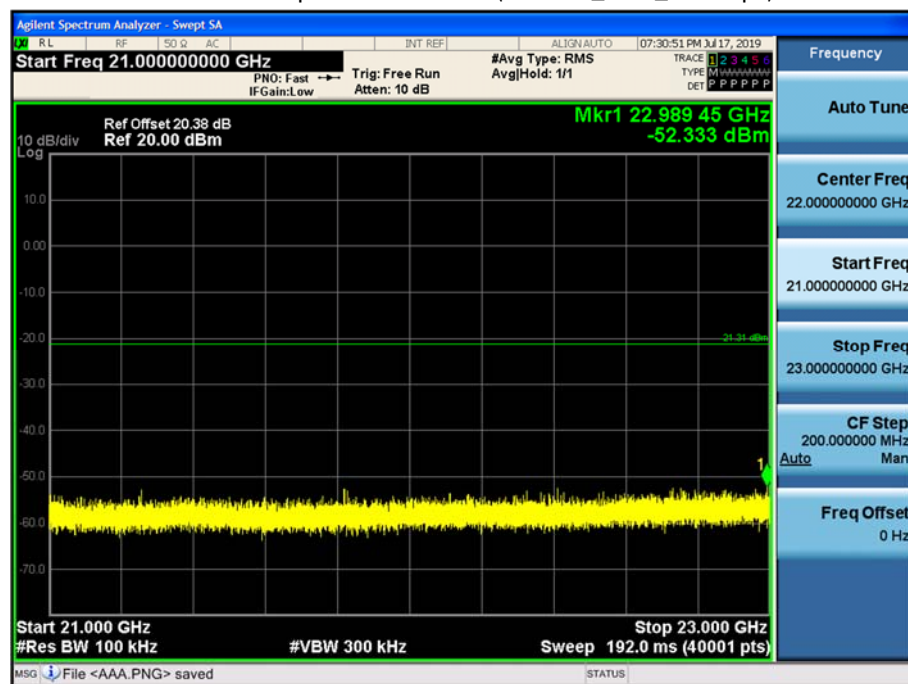
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



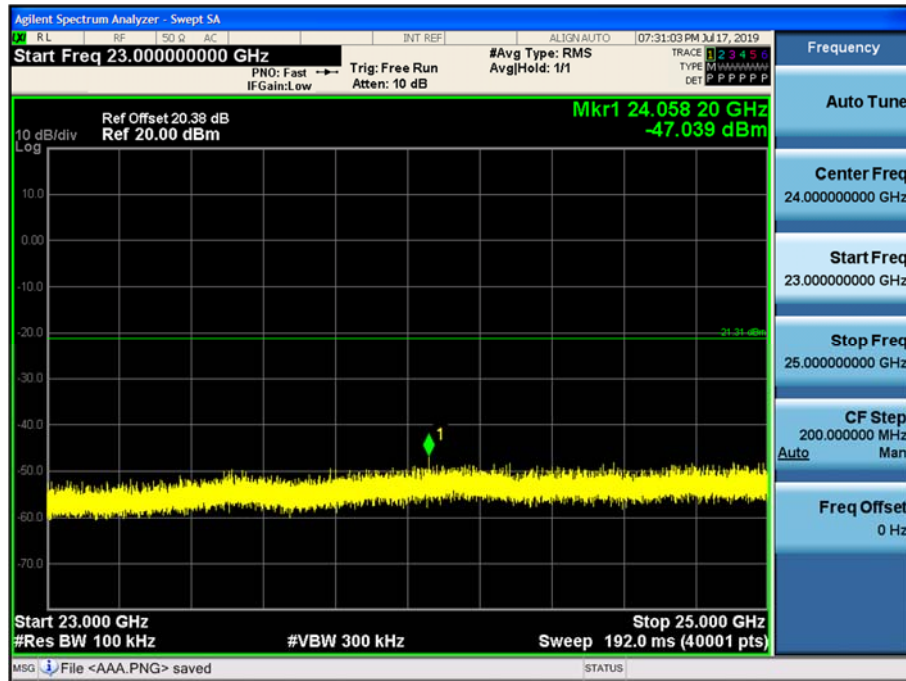
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11b_Ch.6_5.5 Mbps)



9.6 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
4. Radiated test is performed with hopping off.

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.

[ANT1_SISO]
Frequency Range : Above 1 GHz

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 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
4824	49.46	0.56	V	50.02	73.98	23.97	PK
4824	37.32	0.56	V	37.88	53.98	16.11	AV
7236	48.13	9.47	V	57.60	73.98	16.38	PK
7236	36.11	9.47	V	45.58	53.98	8.40	AV
4824	48.77	0.56	H	49.33	73.98	24.66	PK
4824	36.62	0.56	H	37.18	53.98	16.81	AV
7236	47.01	9.47	H	56.48	73.98	17.50	PK
7236	35.81	9.47	H	45.28	53.98	8.70	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2437
Channel No.	06 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
4874	49.18	0.87	V	50.05	73.98	23.94	PK
4874	36.77	0.87	V	37.64	53.98	16.35	AV
7311	48.09	9.16	V	57.25	73.98	16.73	PK
7311	36.23	9.16	V	45.39	53.98	8.59	AV
4874	48.67	0.87	H	49.54	73.98	24.45	PK
4874	36.03	0.87	H	36.90	53.98	17.09	AV
7311	47.88	9.16	H	57.04	73.98	16.94	PK
7311	35.19	9.16	H	44.35	53.98	9.63	AV

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency: 2462

Channel No. 11 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
4924	48.61	0.81	V	49.42	73.98	24.57	PK
4924	36.27	0.81	V	37.08	53.98	16.91	AV
7386	47.14	9.38	V	56.52	73.98	17.46	PK
7386	35.02	9.38	V	44.40	53.98	9.58	AV
4924	47.63	0.81	H	48.44	73.98	25.55	PK
4924	35.22	0.81	H	36.03	53.98	17.96	AV
7386	46.92	9.38	H	56.30	73.98	17.68	PK
7386	34.69	9.38	H	44.07	53.98	9.91	AV

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency: 2467

Channel No. 12 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
4934	48.70	0.79	V	49.49	73.98	24.49	PK
4934	36.72	0.79	V	37.51	53.98	16.47	AV
7401	47.11	9.50	V	56.61	73.98	17.37	PK
7401	35.06	9.50	V	44.56	53.98	9.42	AV
4934	47.25	0.79	H	48.04	73.98	25.94	PK
4934	35.71	0.79	H	36.50	53.98	17.48	AV
7401	46.95	9.50	H	56.45	73.98	17.53	PK
7401	34.92	9.50	H	44.42	53.98	9.56	AV

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2472
 Channel No.: 13 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
4944	48.90	0.84	V	49.74	73.98	24.24	PK
4944	36.82	0.84	V	37.66	53.98	16.32	AV
7416	46.77	9.97	V	56.74	73.98	17.24	PK
7416	34.75	9.97	V	44.72	53.98	9.26	AV
4944	47.26	0.84	H	48.10	73.98	25.88	PK
4944	35.77	0.84	H	36.61	53.98	17.37	AV
7416	45.97	9.97	H	55.94	73.98	18.04	PK
7416	34.02	9.97	H	43.99	53.98	9.99	AV

[ANT2_SISO]

Frequency Range : Above 1 GHz

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 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
4824	48.84	0.56	V	49.40	73.98	24.59	PK
4824	38.49	0.56	V	39.05	53.98	14.94	AV
7236	49.09	9.47	V	58.56	73.98	15.42	PK
7236	36.05	9.47	V	45.52	53.98	8.46	AV
4824	47.66	0.56	H	48.22	73.98	25.77	PK
4824	37.26	0.56	H	37.82	53.98	16.17	AV
7236	47.73	9.47	H	57.20	73.98	16.78	PK
7236	35.69	9.47	H	45.16	53.98	8.82	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2437
Channel No.	06 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
4874	49.70	0.87	V	50.57	73.98	23.42	PK
4874	38.36	0.87	V	39.23	53.98	14.76	AV
7311	50.15	9.16	V	59.31	73.98	14.67	PK
7311	36.39	9.16	V	45.55	53.98	8.43	AV
4874	48.33	0.87	H	49.20	73.98	24.79	PK
4874	37.51	0.87	H	38.38	53.98	15.61	AV
7311	47.75	9.16	H	56.91	73.98	17.07	PK
7311	35.81	9.16	H	44.97	53.98	9.01	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2462
Channel No.	11 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
4924	48.40	0.81	V	49.21	73.98	24.78	PK
4924	36.22	0.81	V	37.03	53.98	16.96	AV
7386	47.29	9.38	V	56.67	73.98	17.31	PK
7386	35.32	9.38	V	44.70	53.98	9.28	AV
4924	47.62	0.81	H	48.43	73.98	25.56	PK
4924	35.81	0.81	H	36.62	53.98	17.37	AV
7386	46.97	9.38	H	56.35	73.98	17.63	PK
7386	34.91	9.38	H	44.29	53.98	9.69	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2467
Channel No.	12 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
4934	49.13	0.79	V	49.92	73.98	24.06	PK
4934	36.59	0.79	V	37.38	53.98	16.60	AV
7401	46.61	9.50	V	56.11	73.98	17.87	PK
7401	35.12	9.50	V	44.62	53.98	9.36	AV
4934	48.06	0.79	H	48.85	73.98	25.13	PK
4934	35.22	0.79	H	36.01	53.98	17.97	AV
7401	45.57	9.50	H	55.07	73.98	18.91	PK
7401	34.29	9.50	H	43.79	53.98	10.19	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2472
Channel No.	13 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
4944	48.68	0.84	V	49.52	73.98	24.46	PK
4944	36.63	0.84	V	37.47	53.98	16.51	AV
7416	47.04	9.97	V	57.01	73.98	16.97	PK
7416	34.97	9.97	V	44.94	53.98	9.04	AV
4944	47.79	0.84	H	48.63	73.98	25.35	PK
4944	36.02	0.84	H	36.86	53.98	17.12	AV
7416	46.68	9.97	H	56.65	73.98	17.33	PK
7416	33.89	9.97	H	43.86	53.98	10.12	AV

[ANT1&ANT2_MIMO(CDD)]

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4824	49.91	0.00	0.56	V	50.47	73.98	23.52	PK
4824	37.51	0.11	0.56	V	38.18	53.98	15.80	AV
7236	48.50	0.00	9.47	V	57.97	73.98	16.01	PK
7236	35.76	0.11	9.47	V	45.34	53.98	8.64	AV
4824	48.62	0.00	0.56	H	49.18	73.98	24.81	PK
4824	36.82	0.11	0.56	H	37.49	53.98	16.49	AV
7236	47.28	0.00	9.47	H	56.75	73.98	17.23	PK
7236	35.12	0.11	9.47	H	44.70	53.98	9.28	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4874	49.31	0.00	0.87	V	50.18	73.98	23.81	PK
4874	36.99	0.11	0.87	V	37.97	53.98	16.01	AV
7311	48.87	0.00	9.16	V	58.03	73.98	15.95	PK
7311	36.25	0.11	9.16	V	45.52	53.98	8.46	AV
4874	48.60	0.00	0.87	H	49.47	73.98	24.52	PK
4874	36.24	0.11	0.87	H	37.22	53.98	16.76	AV
7311	48.43	0.00	9.16	H	57.59	73.98	16.39	PK
7311	35.46	0.11	9.16	H	44.73	53.98	9.25	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4924	48.31	0.00	0.81	V	49.12	73.98	24.87	PK
4924	36.23	0.11	0.81	V	37.15	53.98	16.83	AV
7386	47.19	0.00	9.38	V	56.57	73.98	17.41	PK
7386	35.12	0.11	9.38	V	44.61	53.98	9.37	AV
4924	47.28	0.00	0.81	H	48.09	73.98	25.90	PK
4924	35.41	0.11	0.81	H	36.33	53.98	17.65	AV
7386	46.87	0.00	9.38	H	56.25	73.98	17.73	PK
7386	34.74	0.11	9.38	H	44.23	53.98	9.75	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2467
Channel No.	12 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4934	48.79	0.00	0.79	V	49.58	73.98	24.40	PK
4934	36.72	0.11	0.79	V	37.62	53.98	16.36	AV
7401	47.16	0.00	9.50	V	56.66	73.98	17.32	PK
7401	34.99	0.11	9.50	V	44.60	53.98	9.38	AV
4934	47.88	0.00	0.79	H	48.67	73.98	25.31	PK
4934	35.12	0.11	0.79	H	36.02	53.98	17.96	AV
7401	46.92	0.00	9.50	H	56.42	73.98	17.56	PK
7401	34.29	0.11	9.50	H	43.90	53.98	10.08	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2472
Channel No.	13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4944	48.61	0.00	0.84	V	49.45	73.98	24.53	PK
4944	36.61	0.11	0.84	V	37.56	53.98	16.42	AV
7416	46.20	0.00	9.97	V	56.17	73.98	17.81	PK
7416	34.86	0.11	9.97	V	44.94	53.98	9.04	AV
4944	48.22	0.00	0.84	H	49.06	73.98	24.92	PK
4944	35.75	0.11	0.84	H	36.70	53.98	17.28	AV
7416	45.96	0.00	9.97	H	55.93	73.98	18.05	PK
7416	34.21	0.11	9.97	H	44.29	53.98	9.69	AV

Operation Mode:	802.11n (HT20)
Transfer MCS Index:	0
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4824	49.28	0.00	0.56	V	49.84	73.98	24.15	PK
4824	37.33	0.12	0.56	V	38.00	53.98	15.98	AV
7236	48.84	0.00	9.47	V	58.31	73.98	15.67	PK
7236	36.00	0.12	9.47	V	45.59	53.98	8.40	AV
4824	48.33	0.00	0.56	H	48.89	73.98	25.10	PK
4824	36.88	0.12	0.56	H	37.55	53.98	16.43	AV
7236	47.63	0.00	9.47	H	57.10	73.98	16.88	PK
7236	35.76	0.12	9.47	H	45.35	53.98	8.64	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4874	48.69	0.00	0.87	V	49.56	73.98	24.43	PK
4874	36.74	0.12	0.87	V	37.72	53.98	16.26	AV
7311	48.51	0.00	9.16	V	57.67	73.98	16.31	PK
7311	36.28	0.12	9.16	V	45.56	53.98	8.42	AV
4874	48.36	0.00	0.87	H	49.23	73.98	24.76	PK
4874	35.96	0.12	0.87	H	36.94	53.98	17.04	AV
7311	47.36	0.00	9.16	H	56.52	73.98	17.46	PK
7311	35.71	0.12	9.16	H	44.99	53.98	9.00	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2462

Channel No. 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4924	48.75	0.00	0.81	V	49.56	73.98	24.43	PK
4924	36.26	0.12	0.81	V	37.18	53.98	16.80	AV
7386	47.53	0.00	9.38	V	56.91	73.98	17.07	PK
7386	35.12	0.12	9.38	V	44.62	53.98	9.36	AV
4924	47.50	0.00	0.81	H	48.31	73.98	25.68	PK
4924	35.81	0.12	0.81	H	36.73	53.98	17.25	AV
7386	46.97	0.00	9.38	H	56.35	73.98	17.63	PK
7386	34.10	0.12	9.38	H	43.60	53.98	10.39	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2467

Channel No. 12 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4934	49.33	0.00	0.79	V	50.12	73.98	23.86	PK
4934	36.62	0.12	0.79	V	37.53	53.98	16.46	AV
7401	47.26	0.00	9.50	V	56.76	73.98	17.22	PK
7401	34.98	0.12	9.50	V	44.60	53.98	9.39	AV
4934	48.53	0.00	0.79	H	49.32	73.98	24.66	PK
4934	36.03	0.12	0.79	H	36.94	53.98	17.05	AV
7401	46.51	0.00	9.50	H	56.01	73.98	17.97	PK
7401	34.26	0.12	9.50	H	43.88	53.98	10.11	AV

Operation Mode: 802.11n (HT20)

Transfer MCS Index: 0

Operating Frequency: 2472

Channel No. 13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4944	48.67	0.00	0.84	V	49.51	73.98	24.47	PK
4944	36.63	0.12	0.84	V	37.59	53.98	16.40	AV
7416	47.20	0.00	9.97	V	57.17	73.98	16.81	PK
7416	34.83	0.12	9.97	V	44.92	53.98	9.07	AV
4944	48.19	0.00	0.84	H	49.03	73.98	24.95	PK
4944	35.81	0.12	0.84	H	36.77	53.98	17.22	AV
7416	46.72	0.00	9.97	H	56.69	73.98	17.29	PK
7416	33.62	0.12	9.97	H	43.71	53.98	10.28	AV

[DBS Mode 2.4 GHz & 5GHz]

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 & 5180
Channel No.	01 Ch & 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
4824	49.82	0.56	V	50.38	73.98	23.61	PK
4824	41.63	0.56	V	42.19	53.98	11.80	AV
7236	47.46	9.47	V	56.93	73.98	17.05	PK
7236	35.81	9.47	V	45.28	53.98	8.70	AV
4824	50.56	0.56	H	51.12	73.98	22.87	PK
4824	42.45	0.56	H	43.01	53.98	10.98	AV
7236	48.70	9.47	H	58.17	73.98	15.81	PK
7236	36.03	9.47	H	45.50	53.98	8.48	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2437 & 5500
Channel No.	06 Ch & 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
4874	52.97	0.87	V	53.84	73.98	20.15	PK
4874	45.12	0.87	V	45.99	53.98	8.00	AV
7311	48.15	9.16	V	57.31	73.98	16.67	PK
7311	36.09	9.16	V	45.25	53.98	8.73	AV
4874	52.16	0.87	H	53.03	73.98	20.96	PK
4874	43.77	0.87	H	44.64	53.98	9.34	AV
7311	47.52	9.16	H	56.68	73.98	17.30	PK
7311	36.01	9.16	H	45.17	53.98	8.81	AV

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency: 2462 & 5825

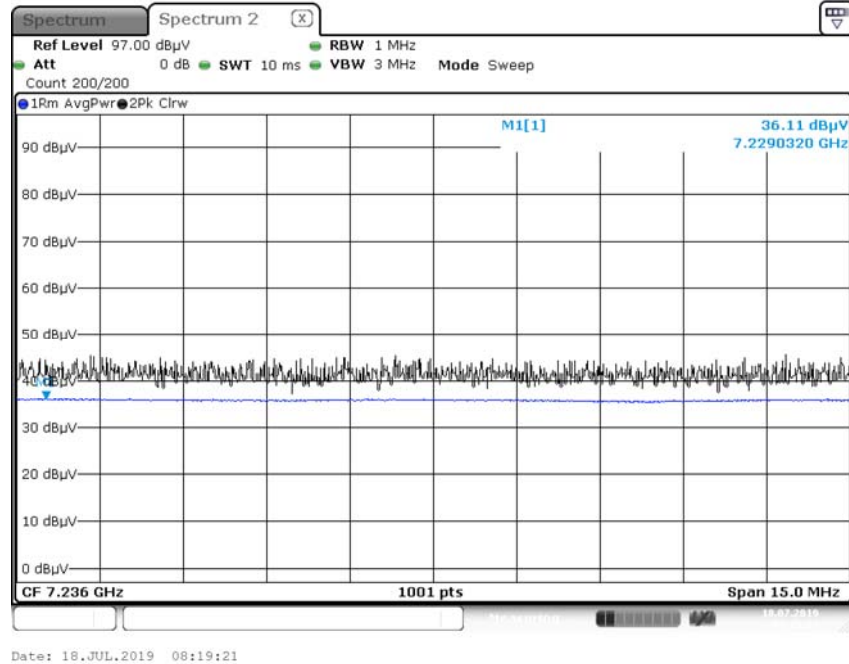
Channel No.: 11 Ch & 165 Ch

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
4924	50.51	0.81	V	51.32	73.98	22.67	PK
4924	42.55	0.81	V	43.36	53.98	10.63	AV
7386	46.34	9.38	V	55.72	73.98	18.26	PK
7386	35.10	9.38	V	44.48	53.98	9.50	AV
4924	49.83	0.81	H	50.64	73.98	23.35	PK
4924	41.63	0.81	H	42.44	53.98	11.55	AV
7386	45.81	9.38	H	55.19	73.98	18.79	PK
7386	34.66	9.38	H	44.04	53.98	9.94	AV

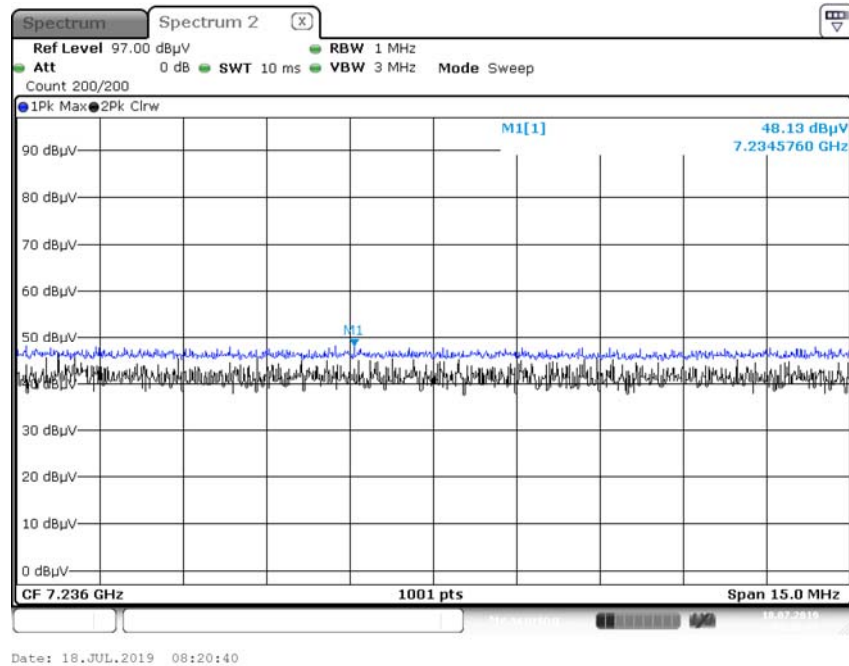
[ANT1_SISO]

■ Test Plots (Worst case : X-V)

Radiated Spurious Emissions plot – Average Reading (802.11b_1Mbps, Ch.1 3rd Harmonic)



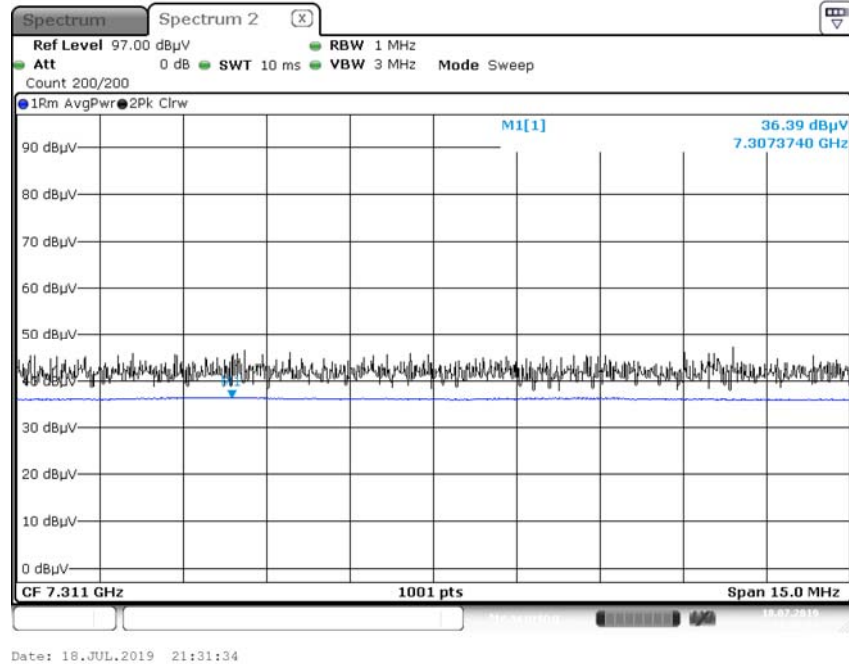
Radiated Spurious Emissions plot – Peak Reading (802.11b_1Mbps, Ch.1 3rd Harmonic)



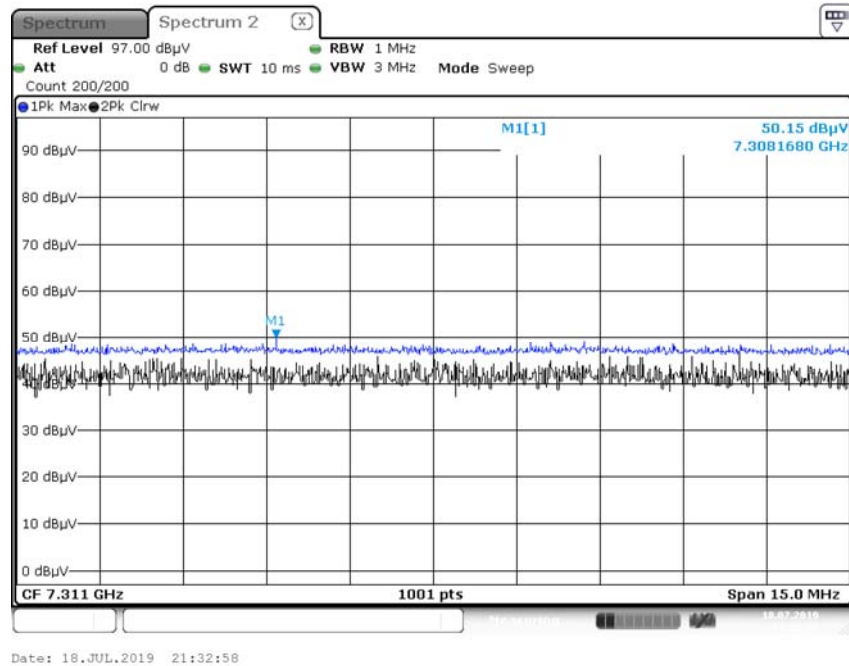
[ANT2_SISO]

■ Test Plots (Worst case : X-V)

Radiated Spurious Emissions plot – Average Reading (802.11b_1Mbps, Ch.6 3rd Harmonic)

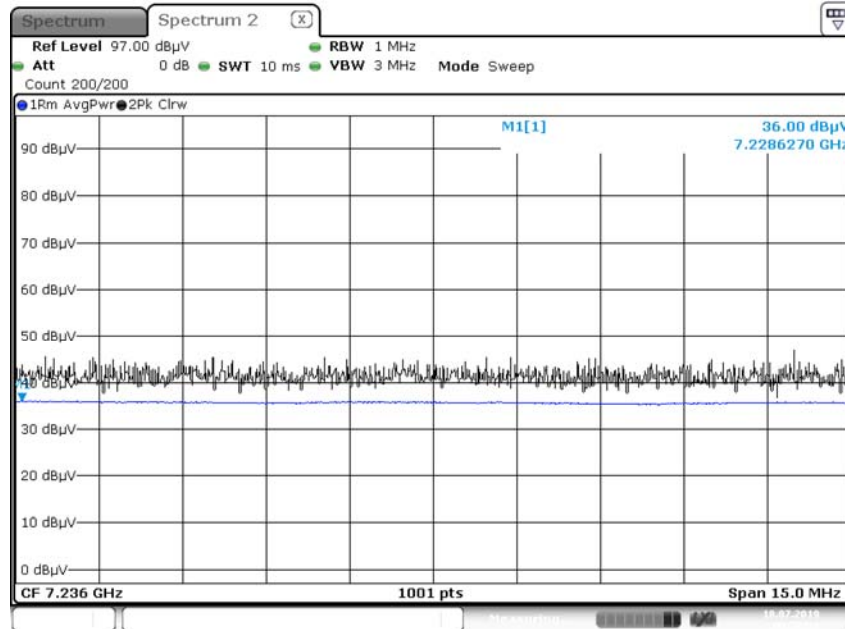


Radiated Spurious Emissions plot – Peak Reading (802.11b_1Mbps, Ch.6 3rd Harmonic)



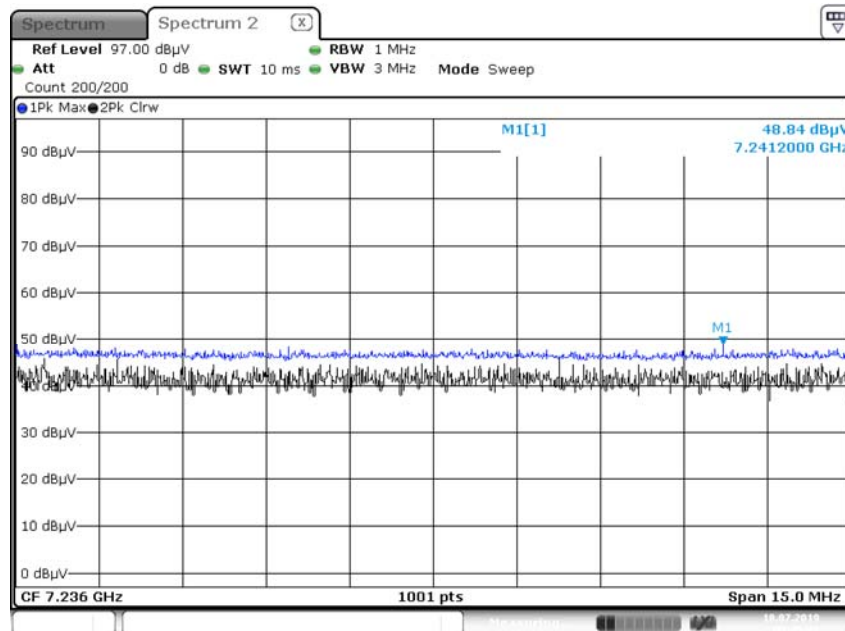
[ANT1&ANT2_MIMO(CDD)]

Radiated Spurious Emissions plot – Average Reading (802.11n(20MHz)_MCS0, 01 Ch 3rd Harmonic)



Date: 18.JUL.2019 09:50:18

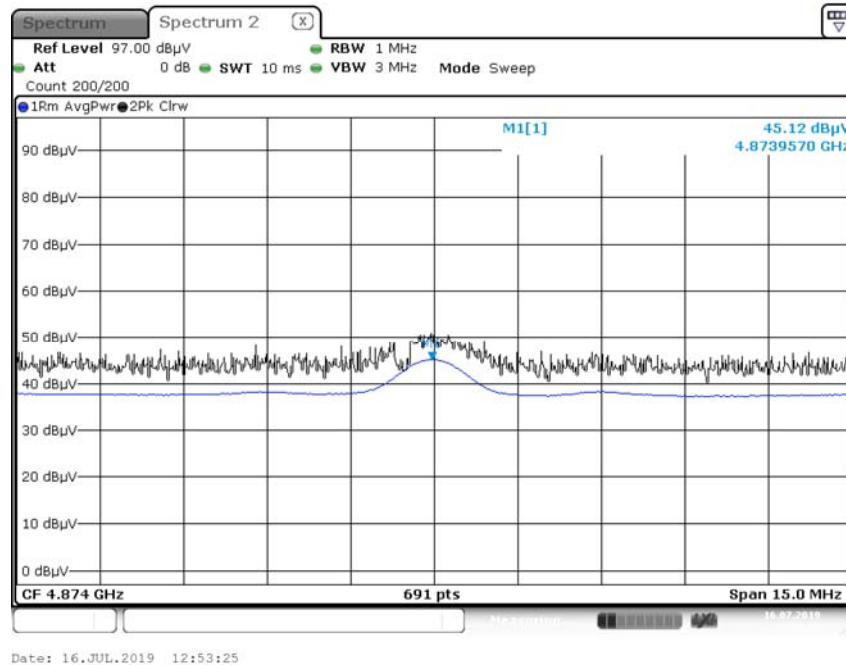
Radiated Spurious Emissions plot – Peak Reading (802.11n(20MHz)_MCS0, 01 Ch 3rd Harmonic)



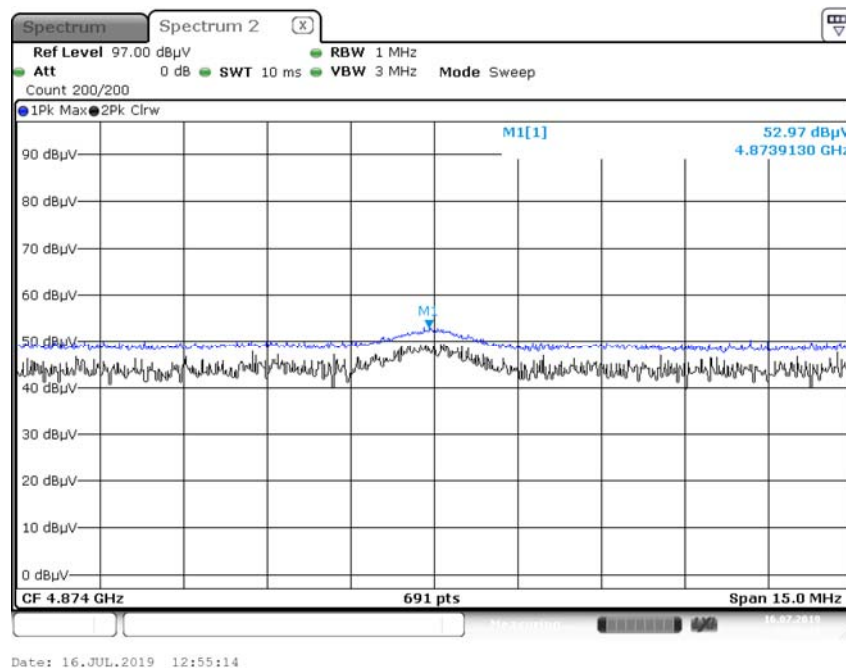
Date: 18.JUL.2019 09:49:41

[DBS Mode 2.4 GHz & 5GHz]

Radiated Spurious Emissions plot – Average Reading (802.11b, 06 Ch & 100 Ch 3rd Harmonic)



Radiated Spurious Emissions plot – Peak Reading (802.11b, 06 Ch & 100 Ch 3rd Harmonic)



Note:

Plot of worst case are only reported.

9.7 RADIATED RESTRICTED BAND EDGES

[ANT1_SISO]

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	54.27	1.16	H	55.43	73.98	18.55	PK
2390.0	43.36	1.16	H	44.52	53.98	9.46	AV
2390.0	53.63	1.16	V	54.79	73.98	19.19	PK
2390.0	43.06	1.16	V	44.22	53.98	9.76	AV
2483.5	54.47	1.12	H	55.59	73.98	18.40	PK
2483.5	43.28	1.12	H	44.40	53.98	9.58	AV
2483.5	53.65	1.12	V	54.77	73.98	19.22	PK
2483.5	42.96	1.12	V	44.08	53.98	9.90	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2467 MHz
Channel No.	12 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	54.18	1.12	H	55.30	73.98	18.69	PK
2483.5	42.32	1.12	H	43.44	53.98	10.55	AV
2483.5	53.16	1.12	V	54.28	73.98	19.71	PK
2483.5	41.87	1.12	V	42.99	53.98	11.00	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2472 MHz
Channel No.	13 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	55.03	1.12	H	56.15	73.98	17.84	PK
2483.5	45.36	1.12	H	46.48	53.98	7.51	AV
2483.5	54.12	1.12	V	55.24	73.98	18.75	PK
2483.5	44.22	1.12	V	45.34	53.98	8.65	AV

[ANT2_SISO]

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	53.85	1.16	H	55.01	73.98	18.97	PK
2390.0	42.43	1.16	H	43.59	53.98	10.39	AV
2390.0	52.95	1.16	V	54.11	73.98	19.87	PK
2390.0	42.07	1.16	V	43.23	53.98	10.75	AV
2483.5	54.77	1.12	H	55.89	73.98	18.10	PK
2483.5	44.02	1.12	H	45.14	53.98	8.84	AV
2483.5	53.52	1.12	V	54.64	73.98	19.35	PK
2483.5	43.58	1.12	V	44.70	53.98	9.29	AV

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2467 MHz
 Channel No. 12 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	53.55	1.12	H	54.67	73.98	19.32	PK
2483.5	42.13	1.12	H	43.25	53.98	10.74	AV
2483.5	52.51	1.12	V	53.63	73.98	20.36	PK
2483.5	41.97	1.12	V	43.09	53.98	10.90	AV

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2472 MHz
 Channel No. 13 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	53.70	1.12	H	54.82	73.98	19.17	PK
2483.5	42.27	1.12	H	43.39	53.98	10.60	AV
2483.5	53.23	1.12	V	54.35	73.98	19.64	PK
2483.5	41.94	1.12	V	43.06	53.98	10.93	AV

[ANT1&ANT2_MIMO(CDD)]

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	59.90	0.00	1.16	H	61.06	73.98	12.92	PK
2390.0	47.24	0.11	1.16	H	48.51	53.98	5.47	AV
2390.0	58.91	0.00	1.16	V	60.07	73.98	13.91	PK
2390.0	46.81	0.11	1.16	V	48.08	53.98	5.90	AV
2483.5*(2484)	60.15	0.00	1.12	H	61.27	73.98	12.72	PK
2483.5*(2484)	50.29	0.11	1.12	H	51.52	53.98	2.46	AV
2483.5*(2485)	57.19	0.00	1.12	V	58.31	73.98	15.68	PK
2483.5*(2485)	47.28	0.11	1.12	V	48.51	53.98	5.47	AV
2485.5~2500	60.56	0.00	1.12	V	61.68	73.98	12.31	PK
2485.5~2500	49.49	0.11	1.12	V	50.72	53.98	3.26	AV

Note:

* integration method Used (ANSI C63.10 Section11.13.3)

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2467 MHz
Channel No.	12 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	55.02	0.00	1.12	H	56.14	73.98	17.85	PK
2483.5	43.69	0.11	1.12	H	44.92	53.98	9.06	AV
2483.5	54.08	0.00	1.12	V	55.20	73.98	18.79	PK
2483.5	42.91	0.11	1.12	V	44.14	53.98	9.84	AV

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2472 MHz
 Channel No. 13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	63.25	0.00	1.12	H	64.37	73.98	9.62	PK
2483.5	50.00	0.11	1.12	H	51.23	53.98	2.75	AV
2483.5	62.12	0.00	1.12	V	63.24	73.98	10.75	PK
2483.5	49.12	0.11	1.12	V	50.35	53.98	3.63	AV

Operation Mode: 802.11n (HT20)
 Transfer Rate: 0
 Operating Frequency: 2412 MHz, 2462 MHz
 Channel No. 01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	61.17	0.00	1.16	H	62.33	73.98	11.65	PK
2390.0	48.01	0.12	1.16	H	49.29	53.98	4.70	AV
2390.0	60.50	0.00	1.16	V	61.66	73.98	12.32	PK
2390.0	47.57	0.12	1.16	V	48.85	53.98	5.14	AV
2483.5	63.86	0.00	1.12	H	64.98	73.98	9.00	PK
2483.5	49.33	0.12	1.12	H	50.57	53.98	3.42	AV
2483.5	63.04	0.00	1.12	V	64.16	73.98	9.83	PK
2483.5	48.88	0.12	1.12	V	50.11	53.98	3.87	AV

Operation Mode: 802.11n (HT20)
Transfer Rate: 0
Operating Frequency: 2467 MHz, 2472 MHz
Channel No. 12 Ch, 13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	54.91	0.00	1.12	H	56.03	73.98	17.95	PK
2483.5	43.64	0.12	1.12	H	44.88	53.98	9.11	AV
2483.5	54.83	0.00	1.12	V	55.95	73.98	18.04	PK
2483.5	42.88	0.12	1.12	V	44.11	53.98	9.87	AV
2483.5*(2484)	56.24	0.00	1.12	H	57.36	73.98	16.62	PK
2483.5*(2484)	45.93	0.12	1.12	H	47.17	53.98	6.82	AV
2483.5*(2485)	53.71	0.00	1.12	H	54.83	73.98	19.16	PK
2483.5*(2485)	43.65	0.12	1.12	H	44.88	53.98	9.10	AV
2485.5~2500	56.74	0.00	1.12	H	57.86	73.98	16.13	PK
2485.5~2500	46.79	0.12	1.12	H	48.02	53.98	5.96	AV

Note:

* integration method Used (ANSI C63.10 Section11.13.3)

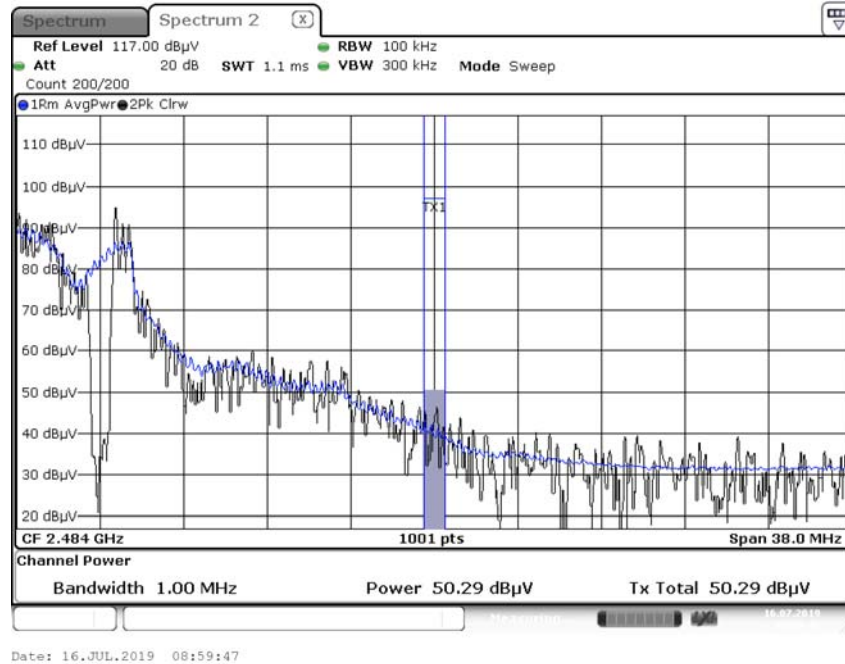
Operation Mode: 802.11n (HT20)
Transfer MCS Index: 0
Operating Frequency: 2457 MHz
Channel No. 10 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	61.16	0.00	1.12	H	62.28	73.98	11.70	PK
2483.5	44.88	0.12	1.12	H	46.12	53.98	7.86	AV
2483.5	59.63	0.00	1.12	V	60.75	73.98	13.24	PK
2483.5	43.93	0.12	1.12	V	45.16	53.98	8.82	AV

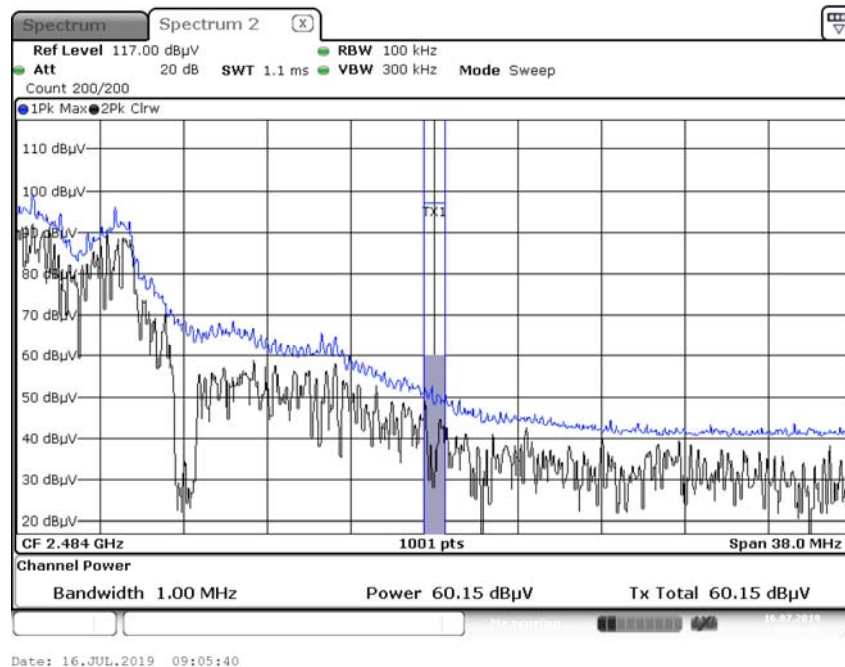
[ANT1&ANT2_MIMO(CDD)]

■ Test Plots (Worst case : X-H)

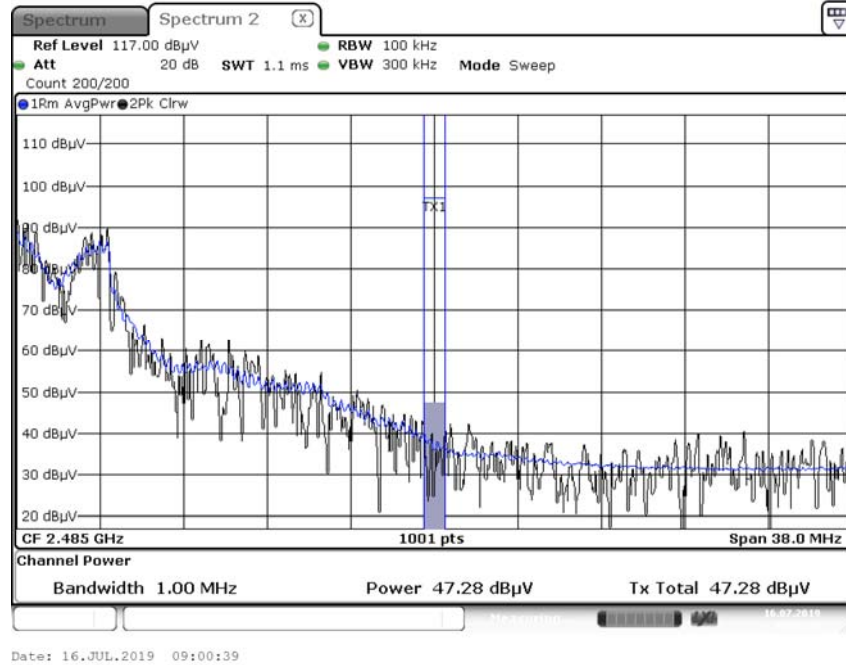
Radiated Restricted Band Edges plot – Average Reading (802.11g Ch.11)_integration method Used 2 484 MHz



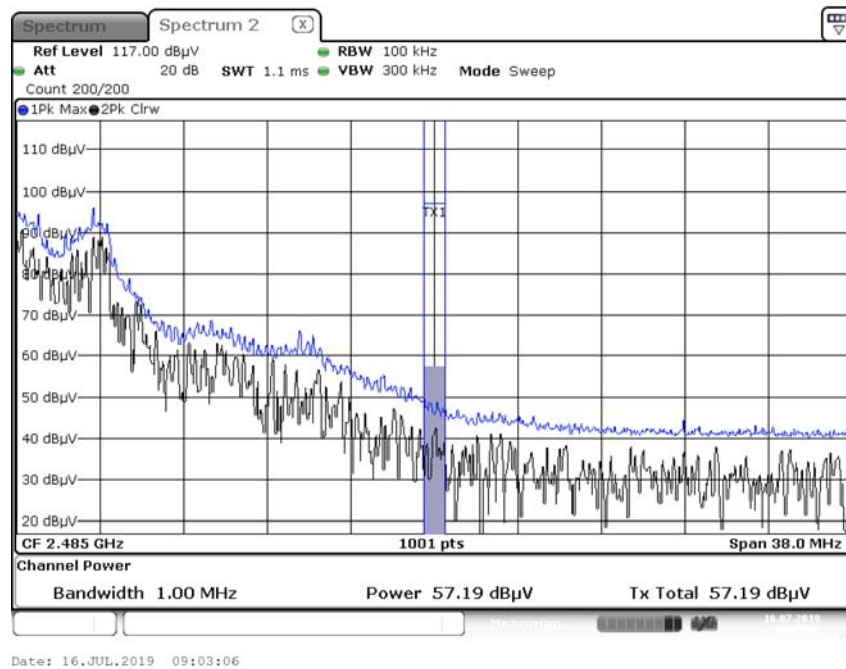
Radiated Restricted Band Edges plot – Peak Reading (802.11g Ch.11)_integration method Used 2 484 MHz



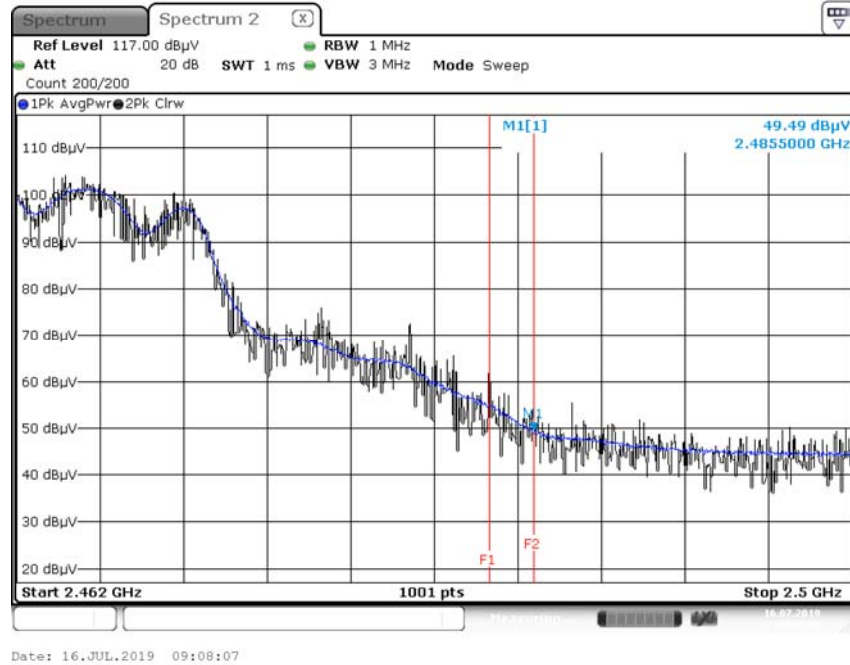
Radiated Restricted Band Edges plot – Average Reading (802.11g Ch.11)_integration method Used 2 485 MHz



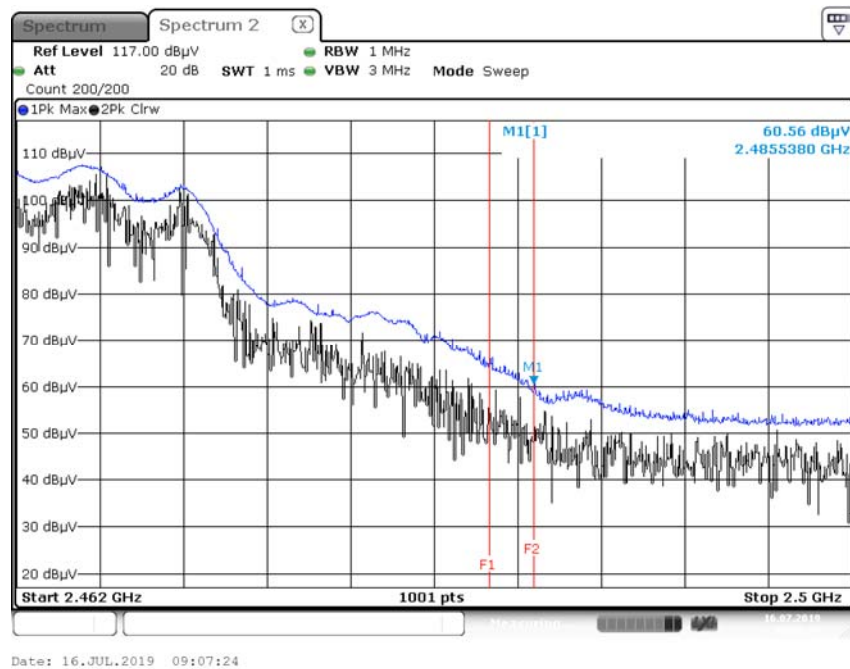
Radiated Restricted Band Edges plot – Peak Reading (1Pk Max) (802.11g Ch.11)_integration method Used 2 485 MHz



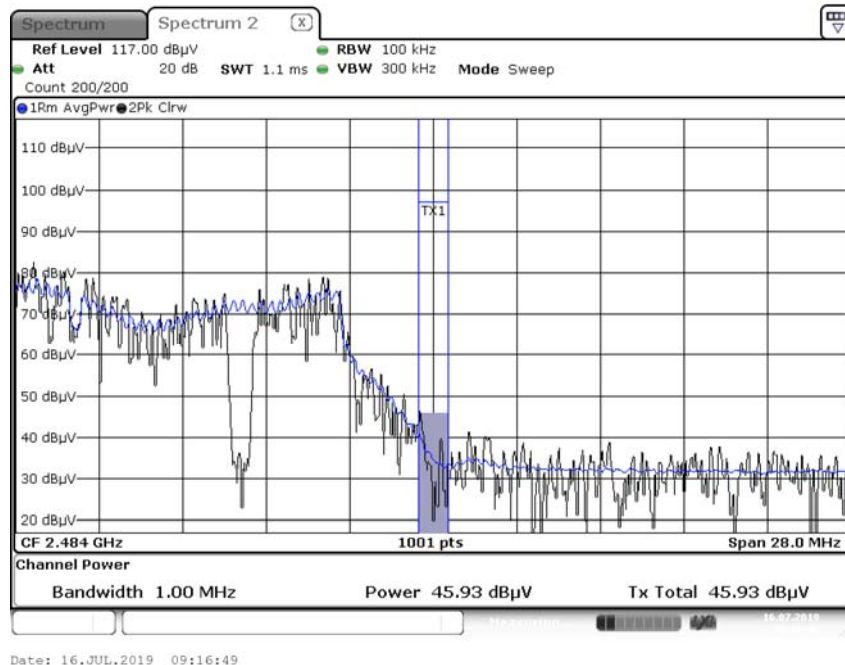
Radiated Restricted Band Edges plot – Average Reading (802.11g Ch.11)_integration method Used 2 485.5 MHz ~ 2 500 MHz



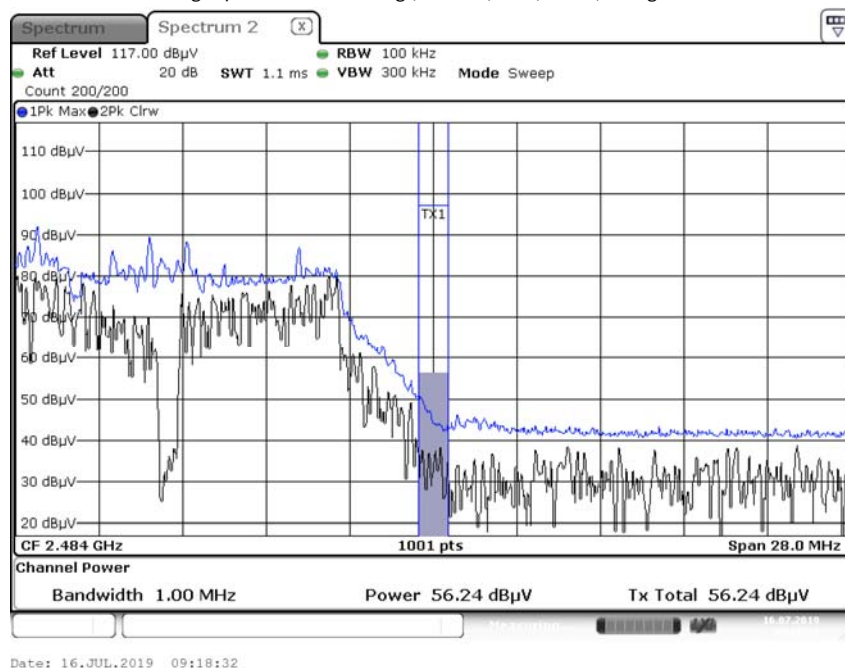
Radiated Restricted Band Edges plot – Peak Reading (802.11g Ch.11)_integration method Used 2 485.5 MHz ~ 2 500 MHz



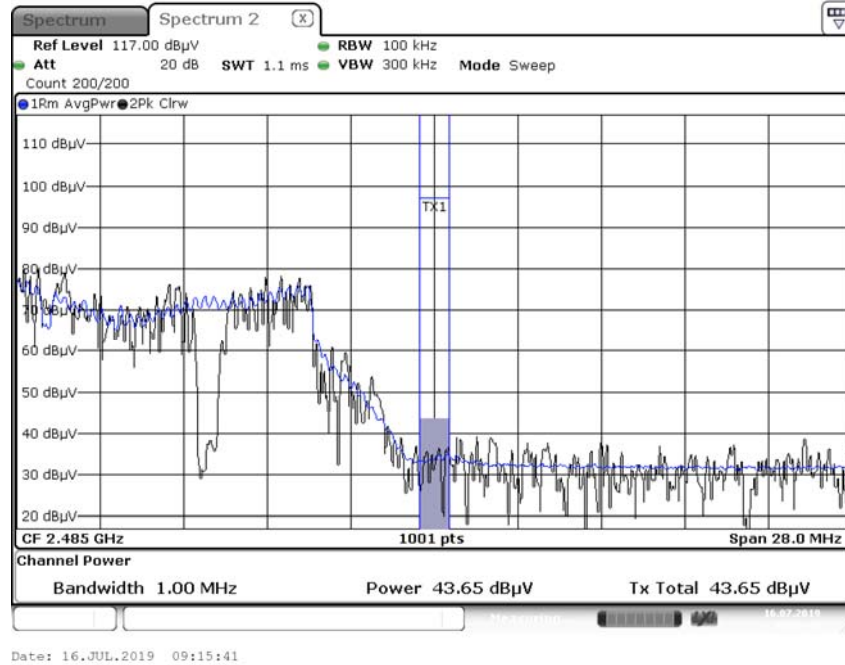
Radiated Restricted Band Edges plot – Average Reading (802.11n(HT20) Ch.13)_integration method Used 2 484 MHz



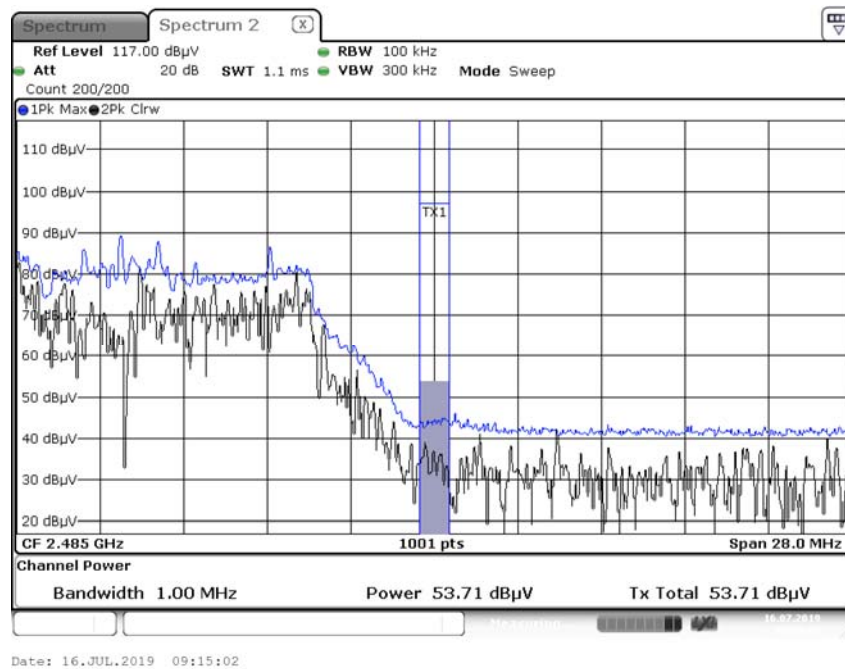
Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT20) Ch.13)_integration method Used 2 484 MHz



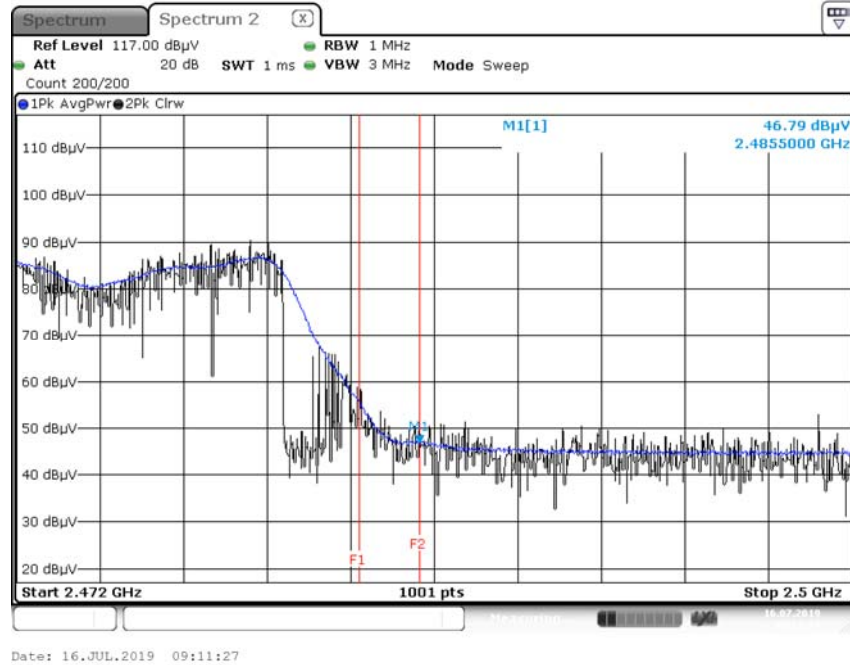
Radiated Restricted Band Edges plot – Average Reading (802.11n(HT20) Ch.13)_integration method Used 2 485 MHz



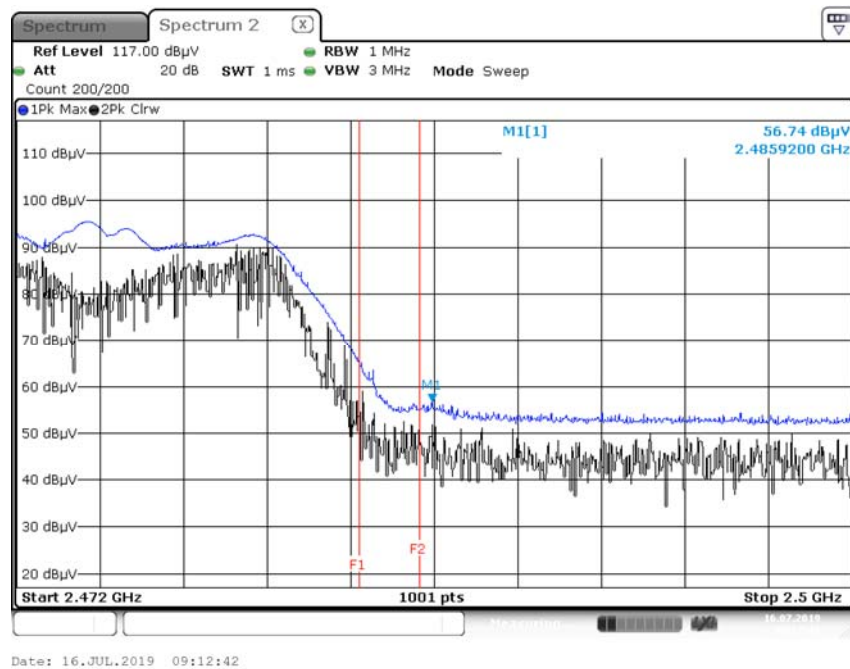
Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT20) Ch.13)_integration method Used 2 485 MHz



Radiated Restricted Band Edges plot – Average Reading (802.11n(HT20) Ch.13)_integration method Used 2 485.5 MHz ~ 2 500 MHz



Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT20) Ch.13)_integration method Used 2 485.5 MHz ~ 2 500 MHz



Note:

Plot of worst case are only reported.

9.8 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

2.4G L1

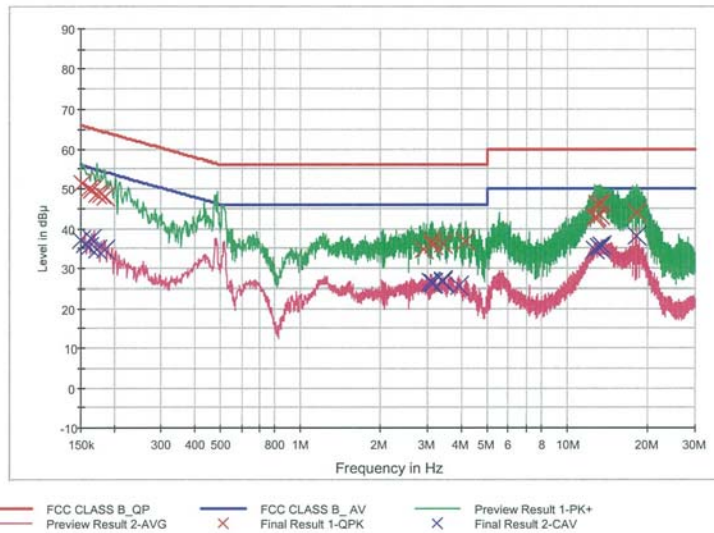
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HCT TEST Report

Common Information

EUT: SM-W767
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: DATA_2.4G_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	51.3	9.000	Off	L1	9.7	14.6	65.9
0.160000	50.0	9.000	Off	L1	9.7	15.4	65.5
0.164000	49.8	9.000	Off	L1	9.7	15.5	65.3
0.172000	48.7	9.000	Off	L1	9.7	16.2	64.9
0.178000	48.5	9.000	Off	L1	9.7	16.1	64.6
0.186000	48.1	9.000	Off	L1	9.7	16.1	64.2
2.900000	34.7	9.000	Off	L1	9.9	21.3	56.0
3.088000	36.9	9.000	Off	L1	9.9	19.1	56.0
3.130000	35.6	9.000	Off	L1	9.9	20.4	56.0
3.418000	36.1	9.000	Off	L1	9.9	19.9	56.0
3.424000	36.2	9.000	Off	L1	9.9	19.8	56.0
4.172000	36.8	9.000	Off	L1	10.0	19.2	56.0
12.694000	42.6	9.000	Off	L1	10.3	17.4	60.0
12.704000	43.0	9.000	Off	L1	10.3	17.0	60.0
12.876000	46.1	9.000	Off	L1	10.3	13.9	60.0
13.206000	43.4	9.000	Off	L1	10.3	16.6	60.0
13.354000	46.3	9.000	Off	L1	10.4	13.7	60.0
18.086000	43.8	9.000	Off	L1	10.5	16.2	60.0

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2.4G L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	37.1	9.000	Off	L1	9.7	18.9	56.0
0.156000	36.3	9.000	Off	L1	9.7	19.4	55.7
0.160000	35.5	9.000	Off	L1	9.7	20.0	55.5
0.164000	37.5	9.000	Off	L1	9.7	17.8	55.3
0.172000	34.8	9.000	Off	L1	9.7	20.1	54.9
0.186000	34.7	9.000	Off	L1	9.7	19.5	54.2
3.084000	26.7	9.000	Off	L1	9.9	19.3	46.0
3.088000	26.4	9.000	Off	L1	9.9	19.6	46.0
3.130000	26.3	9.000	Off	L1	9.9	19.7	46.0
3.420000	26.8	9.000	Off	L1	9.9	19.2	46.0
3.424000	26.6	9.000	Off	L1	9.9	19.4	46.0
3.910000	25.7	9.000	Off	L1	10.0	20.3	46.0
12.694000	34.6	9.000	Off	L1	10.3	15.2	50.0
13.032000	35.3	9.000	Off	L1	10.3	14.7	50.0
13.206000	35.2	9.000	Off	L1	10.3	14.8	50.0
13.354000	35.7	9.000	Off	L1	10.4	14.3	50.0
18.046000	38.2	9.000	Off	L1	10.5	11.8	50.0
18.080000	38.2	9.000	Off	L1	10.5	11.8	50.0

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Conducted Emissions (Line 2)

2.4G N

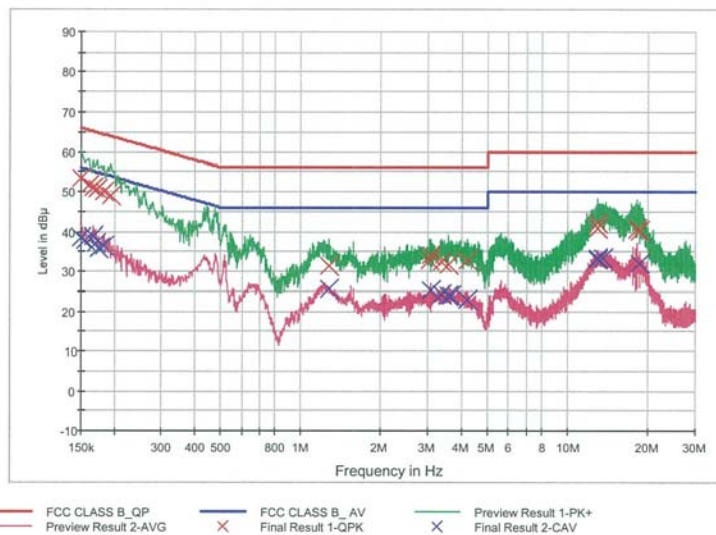
1 / 2

HCT TEST Report

Common Information

EUT: SM-W767
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: DATA_2.4G_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	53.4	9.000	Off	N	9.8	12.6	66.0
0.160000	51.5	9.000	Off	N	9.8	13.9	65.5
0.166000	51.1	9.000	Off	N	9.8	14.1	65.2
0.172000	50.6	9.000	Off	N	9.8	14.3	64.9
0.184000	50.0	9.000	Off	N	9.8	14.3	64.3
0.194000	48.9	9.000	Off	N	9.8	15.0	63.9
1.272000	31.3	9.000	Off	N	10.0	24.7	56.0
3.036000	32.7	9.000	Off	N	10.1	23.3	56.0
3.078000	34.0	9.000	Off	N	10.1	22.0	56.0
3.384000	32.3	9.000	Off	N	10.1	23.7	56.0
3.562000	31.8	9.000	Off	N	10.1	24.2	56.0
4.214000	32.6	9.000	Off	N	10.2	23.4	56.0
12.894000	40.7	9.000	Off	N	10.6	19.3	60.0
12.980000	42.1	9.000	Off	N	10.6	17.9	60.0
12.984000	42.2	9.000	Off	N	10.6	17.8	60.0
12.990000	40.9	9.000	Off	N	10.6	19.1	60.0
18.164000	40.5	9.000	Off	N	10.8	19.5	60.0
18.490000	40.3	9.000	Off	N	10.8	19.7	60.0

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2.4G N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	38.4	9.000	Off	N	9.8	17.6	56.0
0.156000	37.8	9.000	Off	N	9.8	17.9	55.7
0.166000	38.9	9.000	Off	N	9.8	16.3	55.2
0.170000	37.2	9.000	Off	N	9.8	17.7	55.0
0.174000	35.8	9.000	Off	N	9.8	19.0	54.8
0.184000	36.3	9.000	Off	N	9.8	18.0	54.3
1.272000	25.5	9.000	Off	N	10.0	20.5	46.0
3.080000	25.4	9.000	Off	N	10.1	20.6	46.0
3.384000	24.2	9.000	Off	N	10.1	21.8	46.0
3.560000	24.0	9.000	Off	N	10.1	22.0	46.0
3.658000	24.0	9.000	Off	N	10.1	22.0	46.0
4.214000	22.9	9.000	Off	N	10.2	23.1	46.0
12.894000	32.9	9.000	Off	N	10.6	17.1	50.0
12.980000	33.5	9.000	Off	N	10.6	16.5	50.0
12.986000	33.4	9.000	Off	N	10.6	16.6	50.0
12.990000	33.1	9.000	Off	N	10.6	16.9	50.0
13.568000	33.2	9.000	Off	N	10.6	16.8	50.0
18.490000	32.1	9.000	Off	N	10.8	17.9	50.0

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10. 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	100584
ESPAC	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	Annual	MY49431210
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
WEINSCHEL	2-20 / Attenuator(20 dB)	10/26/2018	Annual	BR0592
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
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

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	08/01/2017	Biennial	1151
Schwarzbeck	BBHA 9120D / Horn Antenna	04/29/2019	Biennial	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
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
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
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

Note:

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

11. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1907-FC008-P