

Frequency Range : Above 1 GHz

[MIMO (Ant1+Ant2)]

Band : UNII 1			Operation Mode : 802.11a 6Mbps				
CH.36 5180 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	57.07	-3.27	V	53.80	68.20	14.40	PK
15540	52.91	-1.27	V	51.64	73.98	22.34	PK
15540	39.22	-1.27	V	37.95	53.98	16.03	AV
10360	57.20	-3.27	H	53.93	68.20	14.27	PK
15540	53.13	-1.27	H	51.86	73.98	22.12	PK
15540	39.52	-1.27	H	38.25	53.98	15.73	AV

Band : UNII 1			Operation Mode : 802.11a 6Mbps				
CH.40 5200 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	56.45	-3.23	V	53.22	68.20	14.98	PK
15600	53.75	-1.75	V	52.00	73.98	21.98	PK
15600	40.56	-1.75	V	38.81	53.98	15.17	AV
10400	55.79	-3.23	H	52.56	68.20	15.64	PK
15600	53.78	-1.75	H	52.03	73.98	21.95	PK
15600	40.68	-1.75	H	38.93	53.98	15.05	AV

Band : UNII 1			Operation Mode : 802.11a 6Mbps				
CH.48 5240 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	56.98	-3.59	V	53.39	68.20	14.81	PK
15720	53.39	-2.02	V	51.37	73.98	22.61	PK
15720	40.68	-2.02	V	38.66	53.98	15.32	AV
10480	56.26	-3.59	H	52.67	68.20	15.53	PK
15720	53.77	-2.02	H	51.75	73.98	22.23	PK
15720	40.49	-2.02	H	38.47	53.98	15.51	AV

Band : UNII 2A			Operation Mode : 802.11a 6Mbps				
CH.52 5260 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	58.54	-3.80	V	54.74	68.20	13.46	PK
15780	53.50	-2.36	V	51.14	73.98	22.84	PK
15780	39.53	-2.36	V	37.17	53.98	16.81	AV
10520	57.25	-3.80	H	53.45	68.20	14.75	PK
15780	53.78	-2.36	H	51.42	73.98	22.56	PK
15780	39.72	-2.36	H	37.36	53.98	16.62	AV

Band : UNII 2A			Operation Mode : 802.11a 6Mbps				
CH.60 5300 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10600	58.70	-3.43	V	55.27	73.98	18.71	PK
10600	45.29	-3.43	V	41.86	53.98	12.12	AV
15900	53.16	-2.54	V	50.62	73.98	23.36	PK
15900	39.45	-2.54	V	36.91	53.98	17.07	AV
10600	56.18	-3.43	H	52.75	73.98	21.23	PK
10600	43.76	-3.43	H	40.33	53.98	13.65	AV
15900	54.05	-2.54	H	51.51	73.98	22.47	PK
15900	39.51	-2.54	H	36.97	53.98	17.01	AV

Band : UNII 2A			Operation Mode : 802.11a 6Mbps				
CH.64 5320 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10640	57.28	-3.36	V	53.92	73.98	20.06	PK
10640	44.91	-3.36	V	41.55	53.98	12.43	AV
15960	53.27	-2.25	V	51.02	73.98	22.96	PK
15960	39.75	-2.25	V	37.50	53.98	16.48	AV
10640	57.39	-3.36	H	54.03	73.98	19.95	PK
10640	43.75	-3.36	H	40.39	53.98	13.59	AV
15960	53.57	-2.25	H	51.32	73.98	22.66	PK
15960	39.85	-2.25	H	37.60	53.98	16.38	AV

Band : UNII 2C			Operation Mode : 802.11a 6Mbps				
CH.100 5500 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11000	56.09	-2.69	V	53.40	73.98	20.58	PK
11000	43.16	-2.69	V	40.47	53.98	13.51	AV
16500	53.87	-2.52	V	51.35	68.20	16.85	PK
11000	55.04	-2.69	H	52.35	73.98	21.63	PK
11000	42.39	-2.69	H	39.70	53.98	14.28	AV
16500	54.09	-2.52	H	51.57	68.20	16.63	PK

Band : UNII 2C			Operation Mode : 802.11a 6Mbps				
CH.120 5600 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	55.28	-3.26	V	52.02	73.98	21.96	PK
11200	42.15	-3.26	V	38.89	53.98	15.09	AV
16800	53.35	-2.98	V	50.37	68.20	17.83	PK
11200	53.84	-3.26	H	50.58	73.98	23.40	PK
11200	41.38	-3.26	H	38.12	53.98	15.86	AV
16800	53.92	-2.98	H	50.94	68.20	17.26	PK

Band : UNII 2C			Operation Mode : 802.11a 6Mbps				
CH.144 5720 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11440	57.82	-3.03	V	54.79	73.98	19.19	PK
11440	45.52	-3.03	V	42.49	53.98	11.49	AV
17160	53.05	-2.42	V	50.63	68.20	17.57	PK
11440	57.64	-3.03	H	54.61	73.98	19.37	PK
11440	44.28	-3.03	H	41.25	53.98	12.73	AV
17160	53.44	-2.42	H	51.02	68.20	17.18	PK

Band : UNII 3			Operation Mode : 802.11a 6Mbps				
CH.149 5745 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11490	57.40	-3.10	V	54.30	73.98	19.68	PK
11490	45.47	-3.10	V	42.37	53.98	11.61	AV
17235	53.70	-2.28	V	51.42	68.20	16.78	PK
11490	56.41	-3.10	H	53.31	73.98	20.67	PK
11490	44.39	-3.10	H	41.29	53.98	12.69	AV
17235	53.87	-2.28	H	51.59	68.20	16.61	PK

Band : UNII 3			Operation Mode : 802.11a 6Mbps				
CH.157 5785 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	59.07	-3.44	V	55.63	73.98	18.35	PK
11570	47.47	-3.44	V	44.03	53.98	9.95	AV
17355	53.04	-2.01	V	51.03	68.20	17.17	PK
11570	58.30	-3.44	H	54.86	73.98	19.12	PK
11570	46.15	-3.44	H	42.71	53.98	11.27	AV
17355	53.27	-2.01	H	51.26	68.20	16.94	PK

Band : UNII 3			Operation Mode : 802.11a 6Mbps				
CH.165 5825 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11650	58.33	-3.92	V	54.41	73.98	19.57	PK
11650	46.58	-3.92	V	42.66	53.98	11.32	AV
17475	52.58	-0.72	V	51.86	68.20	16.34	PK
11650	59.51	-3.92	H	55.59	73.98	18.39	PK
11650	46.22	-3.92	H	42.30	53.98	11.68	AV
17475	53.42	-0.72	H	52.70	68.20	15.50	PK

Band : UNII 4			Operation Mode : 802.11a 6Mbps				
CH.169 5845 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11690	58.14	-3.69	V	54.45	73.98	19.53	PK
11690	45.60	-3.69	V	41.91	53.98	12.07	AV
17535	52.65	0.45	V	53.10	68.20	15.10	PK
11690	58.55	-3.69	H	54.86	73.98	19.12	PK
11690	45.62	-3.69	H	41.93	53.98	12.05	AV
17535	53.03	0.45	H	53.48	68.20	14.72	PK

Band : UNII 4			Operation Mode : 802.11a 6Mbps				
CH.173 5865 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11730	57.47	-3.48	V	53.99	73.98	19.99	PK
11730	44.96	-3.48	V	41.48	53.98	12.50	AV
17595	52.24	0.74	V	52.98	68.20	15.22	PK
11730	58.78	-3.48	H	55.30	73.98	18.68	PK
11730	46.05	-3.48	H	42.57	53.98	11.41	AV
17595	52.56	0.74	H	53.30	68.20	14.90	PK

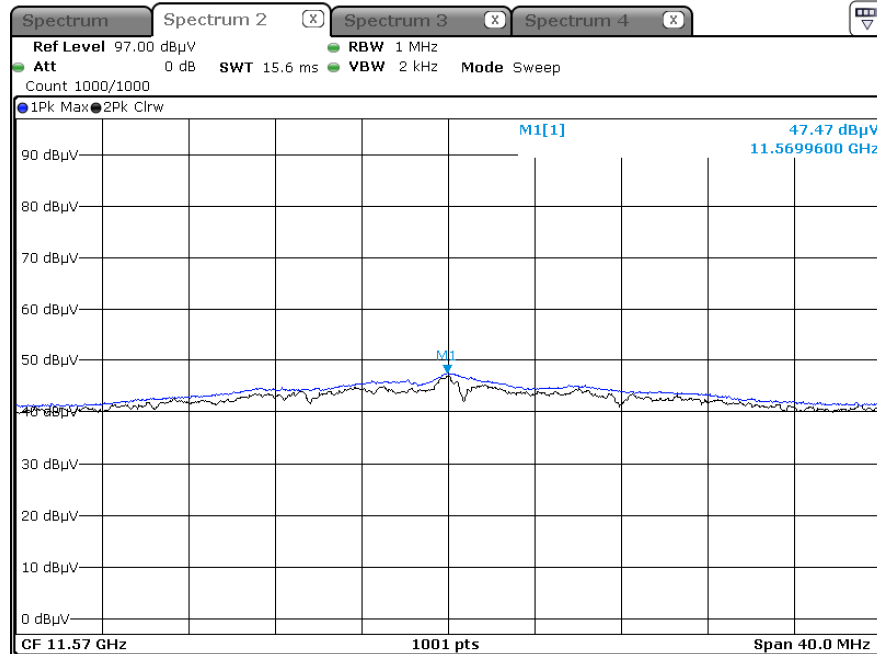
Band : UNII 4			Operation Mode : 802.11a 6Mbps				
CH.177 5885 MHz			Transfer Rate : 6Mbps				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11770	56.97	-3.30	V	53.67	73.98	20.31	PK
11770	43.95	-3.30	V	40.65	53.98	13.33	AV
17655	52.76	1.20	V	53.96	68.20	14.24	PK
11770	59.07	-3.30	H	55.77	73.98	18.21	PK
11770	45.92	-3.30	H	42.62	53.98	11.36	AV
17655	52.57	1.20	H	53.77	68.20	14.43	PK

Test Plots

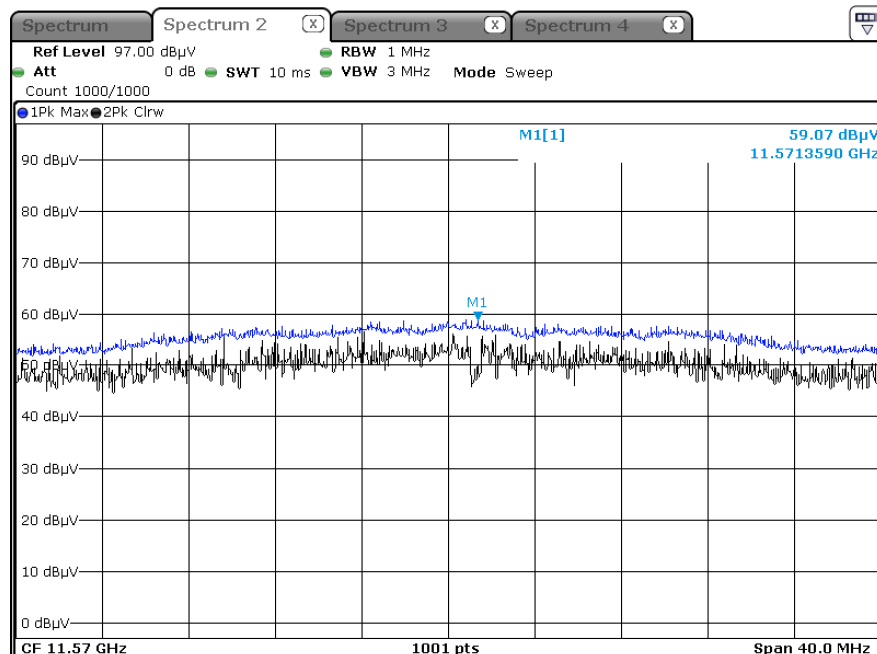
Note: Only the worst case plot for Radiated Spurious Emissions.

[MIMO (Ant1+Ant2)]

Radiated Spurious Emissions plot – Average Result (802.11a, Ch.157 Spurious Emissions, Z-V)



Radiated Spurious Emissions plot – Peak Result (802.11a, Ch.157 Spurious Emissions, Z-V)



10.9 RADIATED RESTRICTED BAND EDGE

[MIMO (Ant1+Ant2)]

[UNII1 Lower Edge]

[802.11a]

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	63.22	H	63.22	73.98	10.76	PK		
4500 - 5150	49.16	H	49.16	53.98	4.82	AV		

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		40	Frequency :		5200 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	62.86	H	62.86	73.98	11.12	PK		
4500 - 5150	49.31	H	49.31	53.98	4.67	AV		

[802.11n20]

Operation Mode :		802.11n_20	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	62.23	H	62.23	73.98	11.75	PK		
4500 - 5150	49.38	H	49.38	53.98	4.60	AV		

Operation Mode :		802.11n_20	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		40	Frequency :		5200 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	62.95	H	62.95	73.98	11.03	PK		
4500 - 5150	49.71	H	49.71	53.98	4.27	AV		

[802.11ac20]

Operation Mode :		802.11ac_20		Tone & RU Index :		-		MCS index :		MCS0	
Channel No. :		36		Frequency :		5180 MHz		Band :		UNII-1	
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type					
4500 - 5150	61.50	H	61.50	73.98	12.48	PK					
4500 - 5150	49.49	H	49.49	53.98	4.49	AV					

Operation Mode : 802.11ac_20		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 40		Frequency : 5200 MHz		Band : UNII-1		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4500 - 5150	63.02	H	63.02	73.98	10.96	PK
4500 - 5150	49.66	H	49.66	53.98	4.32	AV

[802.11n40]

Operation Mode : 802.11n_40		Tone & RU Index : -		MCS index : MCS8		
Channel No. : 38		Frequency : 5190 MHz		Band : UNII-1		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4500 - 5150	65.55	H	65.55	73.98	8.43	PK
4500 - 5150	51.80	H	51.80	53.98	2.18	AV

Operation Mode :	802.11n_40	Tone & RU Index :	-	MCS index :	MCS8	
Channel No. :	46	Frequency :	5230 MHz	Band :	UNII-1	
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4500 - 5150	61.45	H	61.45	73.98	12.53	PK
4500 - 5150	49.90	H	49.90	53.98	4.08	AV

[802.11ac40]

Operation Mode : 802.11ac_40		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 38		Frequency : 5190 MHz		Band : UNII-1		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4500 - 5150	64.03	H	64.03	73.98	9.95	PK
4500 - 5150	51.95	H	51.95	53.98	2.03	AV

Operation Mode : 802.11ac_40		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 46		Frequency : 5230 MHz		Band : UNII-1		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4500 - 5150	61.88	H	61.88	73.98	12.10	PK
4500 - 5150	49.79	H	49.79	53.98	4.19	AV

[802.11ac80]

Operation Mode : 802.11ac_80		Tone & RU Index : -		MCS index :		MCS0
Channel No. : 42		Frequency : 5210 MHz		Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4500 - 5150	62.48	H	62.48	73.98	11.50	PK
4500 - 5150	51.38	H	51.38	53.98	2.60	AV

[UNII-2A Upper Edge]

[802.11a]

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		52	Frequency :		5260 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	63.12	H	63.12	73.98	10.86	PK		
5350 - 5460	50.41	H	50.41	53.98	3.57	AV		

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		56	Frequency :		5280 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	63.85	H	63.85	73.98	10.13	PK		
5350 - 5460	50.81	H	50.81	53.98	3.17	AV		

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		60	Frequency :		5300 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	64.04	H	64.04	73.98	9.94	PK		
5350 - 5460	51.32	H	51.32	53.98	2.66	AV		

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		64	Frequency :		5320 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	64.13	H	64.13	73.98	9.85	PK		
5350 - 5460	50.74	H	50.74	53.98	3.24	AV		

[802.11n20]

Operation Mode :		802.11n_20	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		52	Frequency :		5260 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	63.47	H	63.47	73.98	10.51	PK		
5350 - 5460	50.97	H	50.97	53.98	3.01	AV		

Operation Mode :		802.11n_20	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		56	Frequency :		5280 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	67.71	H	67.71	73.98	6.27	PK		
5350 - 5460	51.12	H	51.12	53.98	2.86	AV		

Operation Mode : 802.11n_20		Tone & RU Index : -		MCS index : MCS8		
Channel No. : 60		Frequency : 5300 MHz		Band : UNII-2A		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	63.72	H	63.72	73.98	10.26	PK
5350 - 5460	51.47	H	51.47	53.98	2.51	AV

Operation Mode : 802.11n_20		Tone & RU Index : -		MCS index : MCS8		
Channel No. : 64		Frequency : 5320 MHz		Band : UNII-2A		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	64.62	H	64.62	73.98	9.36	PK
5350 - 5460	51.12	H	51.12	53.98	2.86	AV

[802.11ac20]

Operation Mode : 802.11ac_20		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 52		Frequency : 5260 MHz		Band : UNII-2A		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	63.46	H	63.46	73.98	10.52	PK
5350 - 5460	51.03	H	51.03	53.98	2.95	AV

Operation Mode : 802.11ac_20		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 56		Frequency : 5280 MHz		Band : UNII-2A		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	63.81	H	63.81	73.98	10.17	PK
5350 - 5460	51.27	H	51.27	53.98	2.71	AV

Operation Mode : 802.11ac_20		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 60		Frequency : 5300 MHz		Band : UNII-2A		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	64.10	H	64.10	73.98	9.88	PK
5350 - 5460	51.62	H	51.62	53.98	2.36	AV

Operation Mode : 802.11ac_20		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 64		Frequency : 5320 MHz		Band : UNII-2A		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	64.79	H	64.79	73.98	9.19	PK
5350 - 5460	51.09	H	51.09	53.98	2.89	AV

[802.11n40]

Operation Mode :		802.11n_40	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		54	Frequency :		5270 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.99	H	62.99	73.98	10.99	PK		
5350 - 5460	51.35	H	51.35	53.98	2.63	AV		
Operation Mode :		802.11n_40	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		62	Frequency :		5310 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	61.92	H	61.92	73.98	12.06	PK		
5350 - 5460	49.47	H	49.47	53.98	4.51	AV		

[802.11ac40]

Operation Mode :		802.11ac_40		Tone & RU Index :		-		MCS index :		MCS0	
Channel No. :		54		Frequency :		5270 MHz		Band :		UNII-2A	
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]		Total [dBμV/m]		Limit [dBμV/m]		Margin [dB]	Measurement Type		
5350 - 5460	63.98	H		63.98		73.98		10.00	PK		
5350 - 5460	51.01	H		51.01		53.98		2.97	AV		
Operation Mode :		802.11ac_40		Tone & RU Index :		-		MCS index :		MCS0	
Channel No. :		62		Frequency :		5310 MHz		Band :		UNII-2A	
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]		Total [dBμV/m]		Limit [dBμV/m]		Margin [dB]	Measurement Type		
5350 - 5460	61.32	H		61.32		73.98		12.66	PK		
5350 - 5460	49.56	H		49.56		53.98		4.42	AV		

[802.11ac80]

Operation Mode :		802.11ac_80	Tone & RU Index :		-	MCS index :		MCS0
Channel No. :		58	Frequency :		5290 MHz	Band :		UNII-2A
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.13	H	62.13	73.98	11.85	PK		
5350 - 5460	50.74	H	50.74	53.98	3.24	AV		

[UNII-2C Lower Edge]

[802.11a]

Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		100	Frequency :		5500 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.31	H	62.31	73.98	11.67	PK		
5350 - 5460	48.73	H	48.73	53.98	5.25	AV		
5460 - 5470	61.25	H	61.25	68.20	6.95	PK		
Operation Mode :		802.11a	Tone & RU Index :		-	Transfer Rate :		6M
Channel No. :		104	Frequency :		5520 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.79	H	62.79	73.98	11.19	PK		
5350 - 5460	50.17	H	50.17	53.98	3.81	AV		
5460 - 5470	62.52	H	62.52	68.20	5.68	PK		

[802.11n20]

Operation Mode :		802.11n_20	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		100	Frequency :		5500 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.26	H	62.26	73.98	11.72	PK		
5350 - 5460	49.13	H	49.13	53.98	4.85	AV		
5460 - 5470	61.05	H	61.05	68.20	7.15	PK		
Operation Mode :		802.11n_20	Tone & RU Index :		-	MCS index :		MCS8
Channel No. :		104	Frequency :		5520 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.62	H	62.62	73.98	11.36	PK		
5350 - 5460	50.37	H	50.37	53.98	3.61	AV		
5460 - 5470	62.63	H	62.63	68.20	5.57	PK		

[802.11ac20]

Operation Mode :		802.11ac_20	Tone & RU Index :		-	MCS index :		MCS0
Channel No. :		100	Frequency :		5500 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.31	H	62.31	73.98	11.67	PK		
5350 - 5460	49.18	H	49.18	53.98	4.80	AV		
5460 - 5470	62.91	H	62.91	68.20	5.29	PK		

Operation Mode : 802.11ac_20		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 104		Frequency : 5520 MHz		Band : UNII-2C		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	63.74	H	63.74	73.98	10.24	PK
5350 - 5460	50.51	H	50.51	53.98	3.47	AV
5460 - 5470	62.97	H	62.97	68.20	5.23	PK

[802.11n40]

Operation Mode : 802.11n_40		Tone & RU Index : -		MCS index : MCS8		
Channel No. : 102		Frequency : 5510 MHz		Band : UNII-2C		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	61.96	H	61.96	73.98	12.02	PK
5350 - 5460	49.14	H	49.14	53.98	4.84	AV
5460 - 5470	64.84	H	64.84	68.20	3.36	PK

Operation Mode :	802.11n_40	Tone & RU Index :	-	MCS index :	MCS8	
Channel No. :	110	Frequency :	5550 MHz	Band :	UNII-2C	
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	61.63	H	61.63	73.98	12.35	PK
5350 - 5460	49.74	H	49.74	53.98	4.24	AV
5460 - 5470	61.98	H	61.98	68.20	6.22	PK

[802.11ac40]

Operation Mode : 802.11ac_40		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 102		Frequency : 5510 MHz		Band : UNII-2C		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	61.54	H	61.54	73.98	12.44	PK
5350 - 5460	49.41	H	49.41	53.98	4.57	AV
5460 - 5470	63.52	H	63.52	68.20	4.68	PK

Operation Mode : 802.11ac_40		Tone & RU Index : -		MCS index : MCS0		
Channel No. : 110		Frequency : 5550 MHz		Band : UNII-2C		
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350 - 5460	61.68	H	61.68	73.98	12.30	PK
5350 - 5460	49.99	H	49.99	53.98	3.99	AV
5460 - 5470	62.31	H	62.31	68.20	5.89	PK

[802.11ac80]

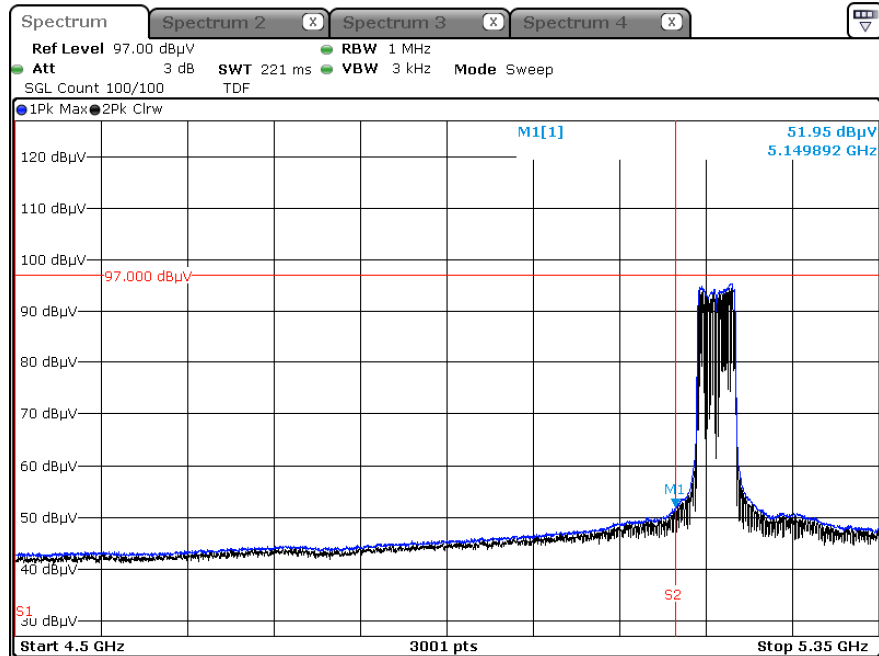
Operation Mode :		802.11ac_80	Tone & RU Index :		-	MCS index :		MCS0
Channel No. :		106	Frequency :		5530 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	62.29	H	62.29	73.98	11.69	PK		
5350 - 5460	51.41	H	51.41	53.98	2.57	AV		
5460 - 5470	62.90	H	62.90	68.20	5.30	PK		

Operation Mode :		802.11ac_80	Tone & RU Index :		-	MCS index :		MCS0
Channel No. :		122	Frequency :		5610 MHz	Band :		UNII-2C
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	61.30	H	61.30	73.98	12.68	PK		
5350 - 5460	50.11	H	50.11	53.98	3.87	AV		
5460 - 5470	60.28	H	60.28	68.20	7.92	PK		

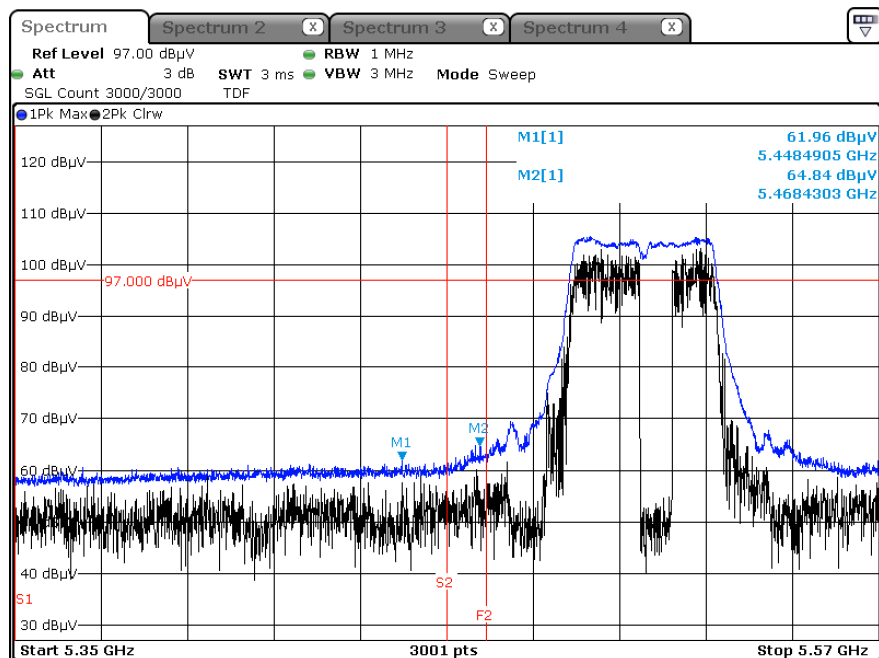
[MIMO (Ant1+Ant2)]

▣ Test Plots (UNII 1, 2A, 2C)

Average Result (802.11ac40_ MCS0, Ch. 38, X-H)



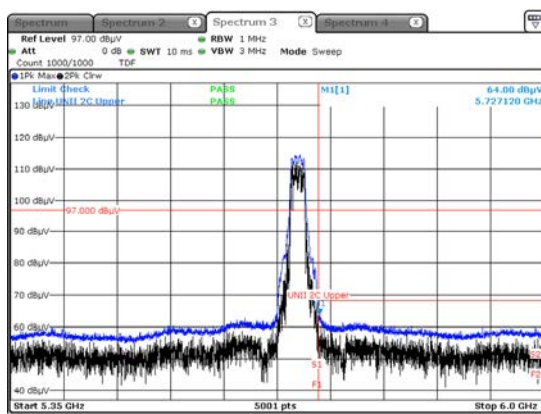
Peak Result (802.11n40_ MCS0, Ch. 102, X-H)



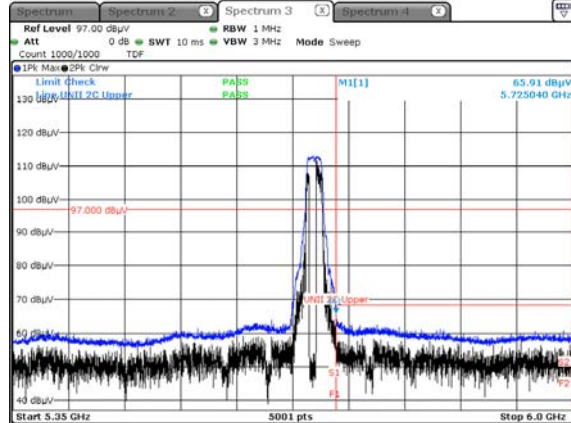
Note: Only the worst case plots for Radiated Restricted Band Edge.

Test Plots(UNII2C_Upper)

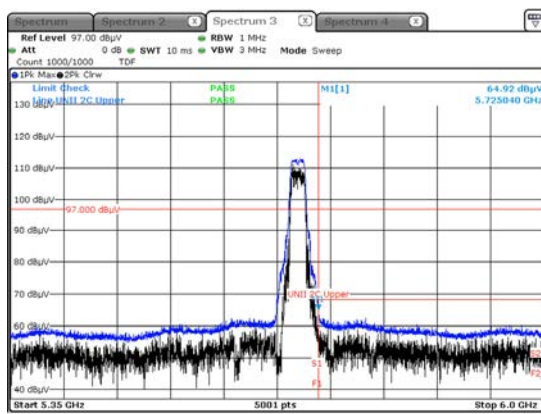
Peak Result (802.11a, Ch.140, X-H)



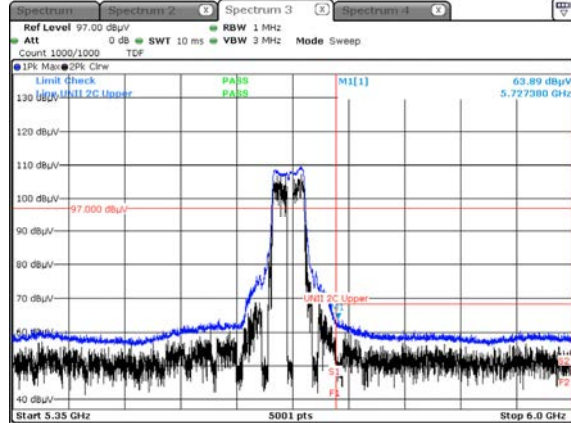
Peak Result (802.11n_HT20, Ch.140, X-H)



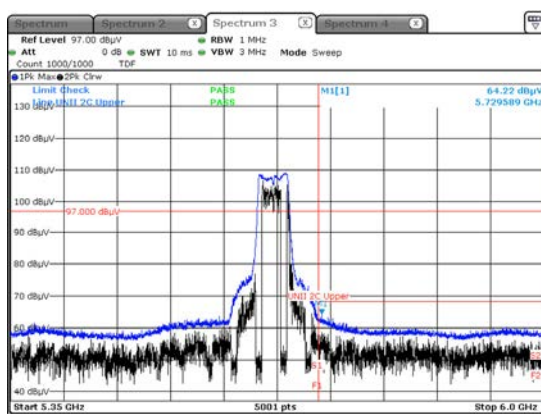
Peak Result (802.11ac_VHT20, Ch.140, X-H)



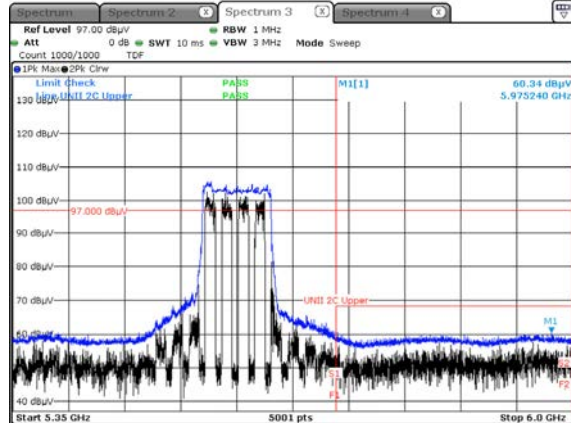
Peak Result (802.11n_HT40, Ch.134, X-H)



Peak Result (802.11ac_VHT40, Ch.134, X-H)

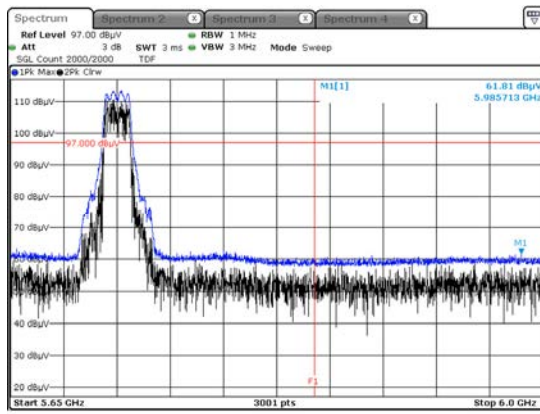


Peak Result (802.11ac_VHT80, Ch.122, X-H)

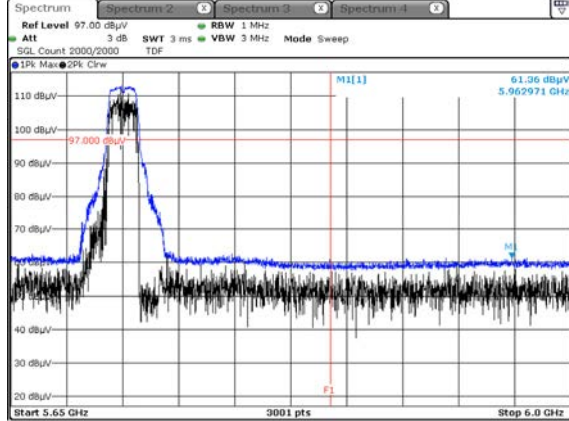


Test Plots(Straddle Channel)

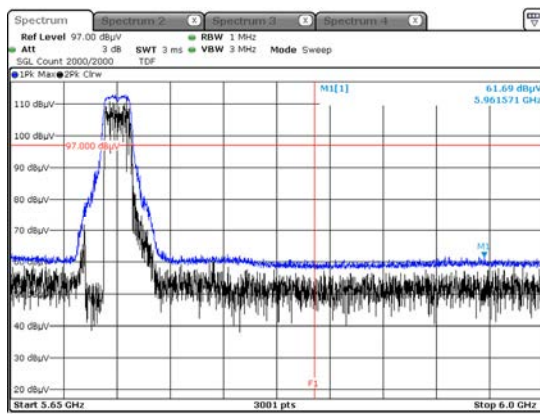
Peak Result (802.11a, Ch.144, X-H)



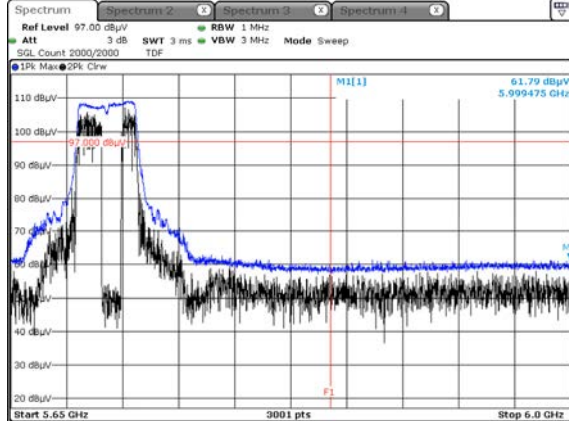
Peak Result (802.11n_HT20, Ch.144, X-H)



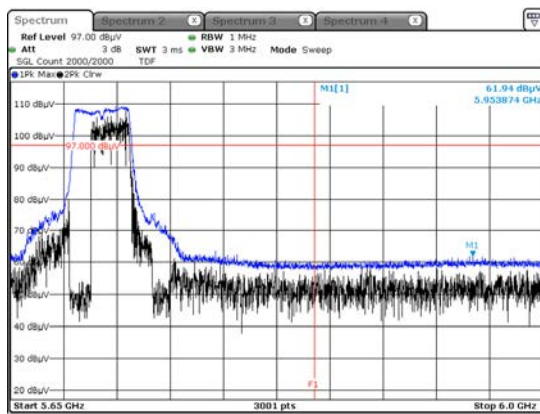
Peak Result (802.11ac_VHT20, Ch.144, X-H)



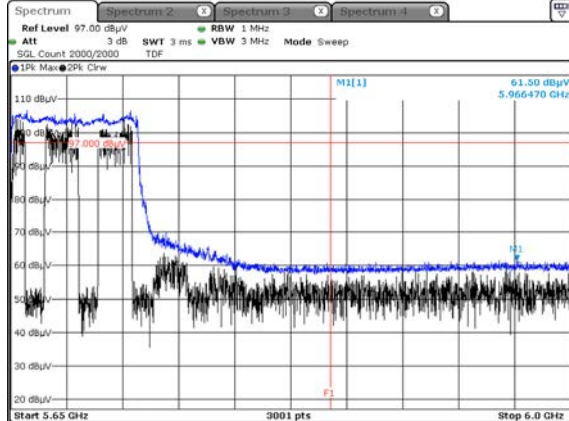
Peak Result (802.11n_HT40, Ch.142, X-H)



Peak Result (802.11ac_VHT40, Ch.142, X-H)



Peak Result (802.11ac_VHT80, Ch.138, X-H)

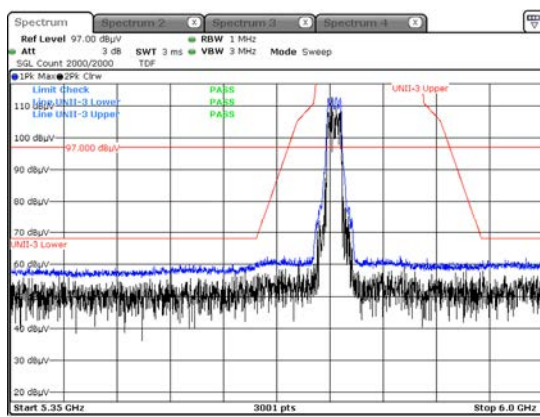


Note:

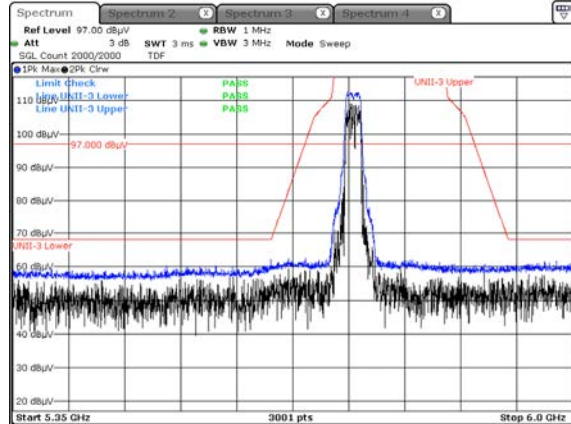
- Only the worst case plots for Radiated Restricted Band Edge.
- Red line : 5 850 MHz

■ Test Plots(UNII 3)

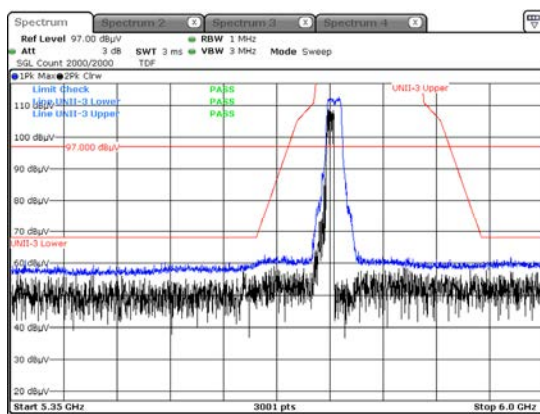
Peak Result (802.11a, Ch.149, X-H)



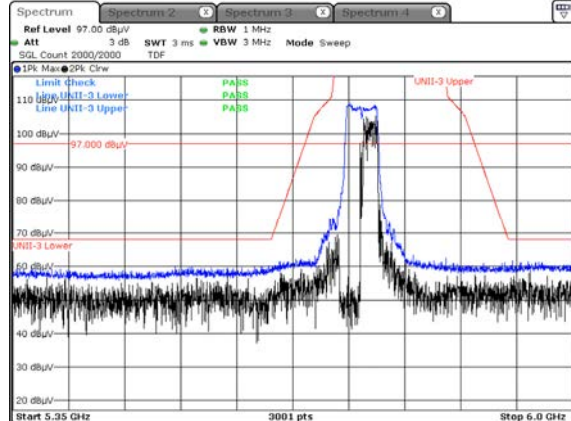
Peak Result (802.11n_HT20, Ch.149, X-H)



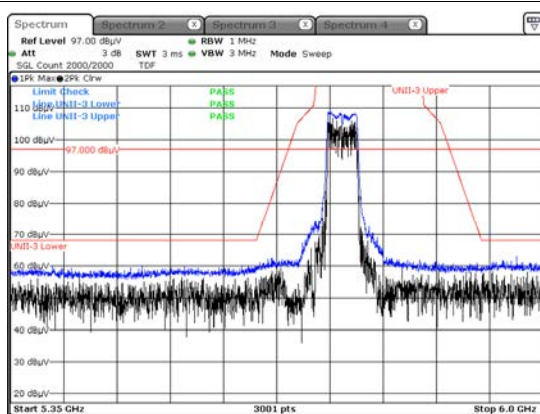
Peak Result (802.11ac_VHT20, Ch.149, X-H)



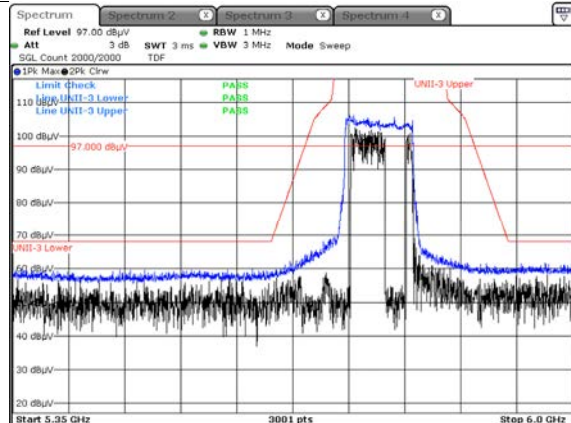
Peak Result (802.11n_HT40, Ch.151, X-H)



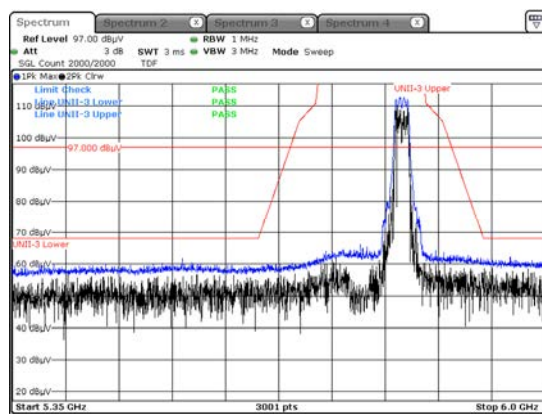
Peak Result (802.11ac_VHT40, Ch.151, X-H)



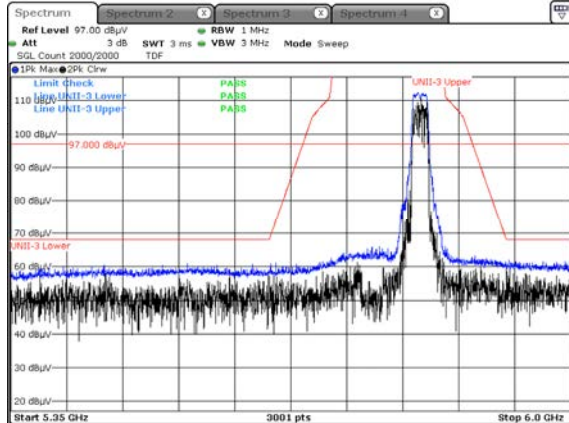
Peak Result (802.11ac_VHT80, Ch.155, X-H)



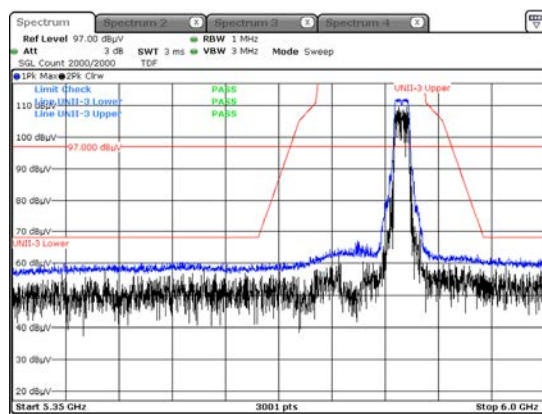
Peak Result (802.11a, Ch.165, X-H)



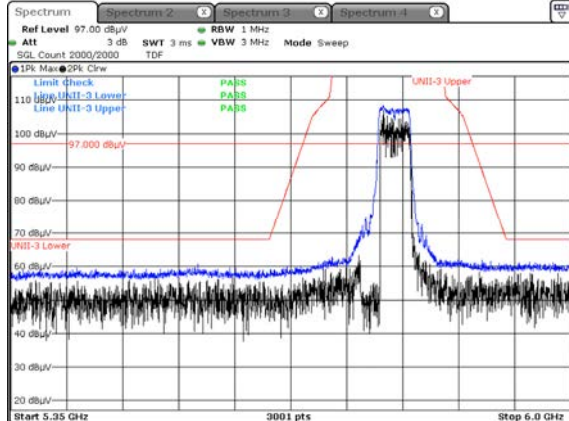
Peak Result (802.11n_HT20, Ch.165, X-H)



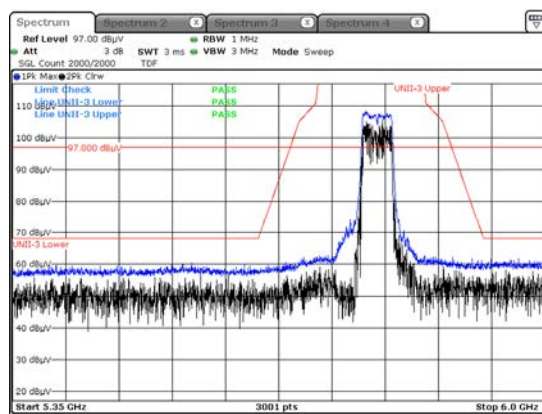
Peak Result (802.11ac_VHT20, Ch.165, X-H)



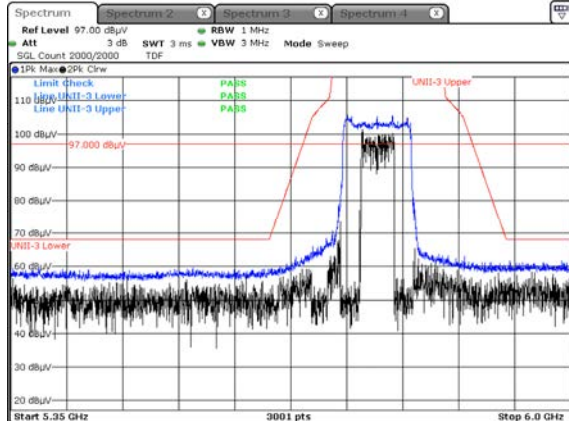
Peak Result (802.11n_HT40, Ch.159, X-H)



Peak Result (802.11ac_VHT40, Ch.159, X-H)



Peak Result (802.11ac_VHT80, Ch.155, X-H)



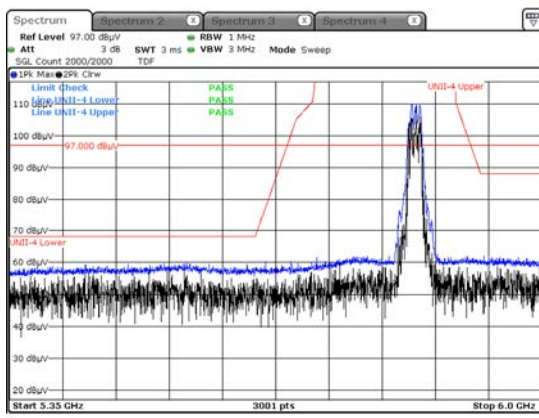
Note:

1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.

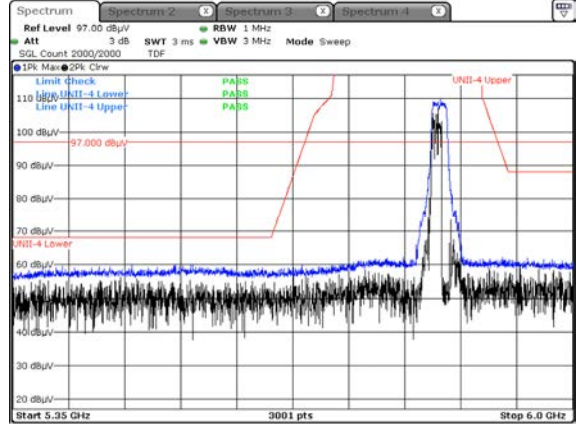
Test Plots(UNII 4) – O.O.B.E

Peak Result

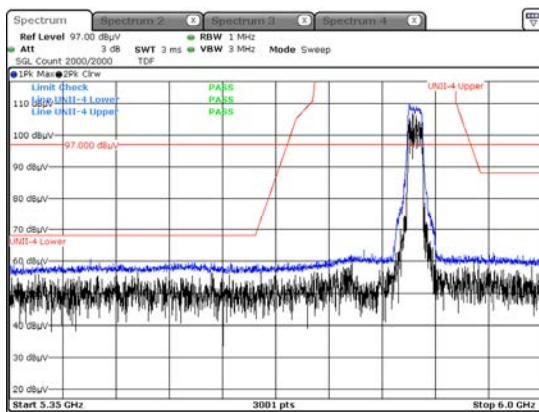
Peak Result (802.11a, Ch.169, X-H)



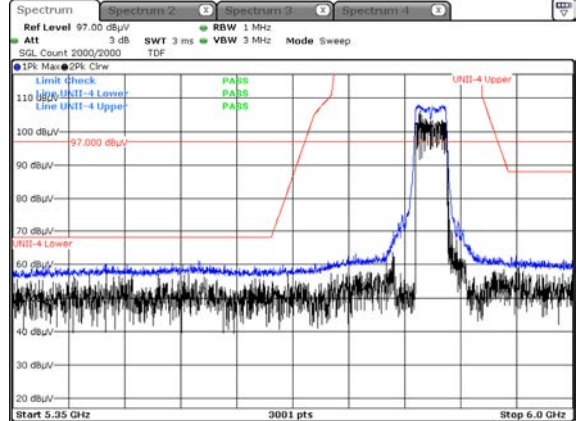
Peak Result (802.11n_HT20, Ch.169, X-H)



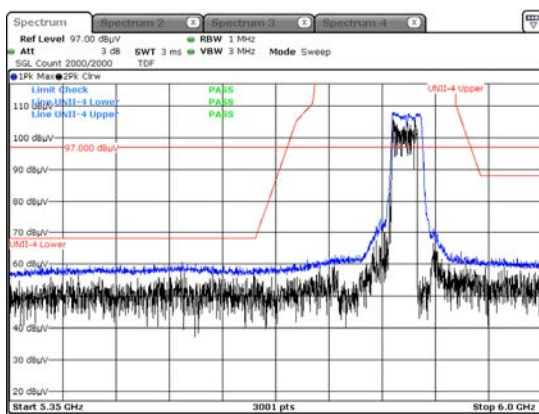
Peak Result (802.11ac_VHT20, Ch.169, X-H)



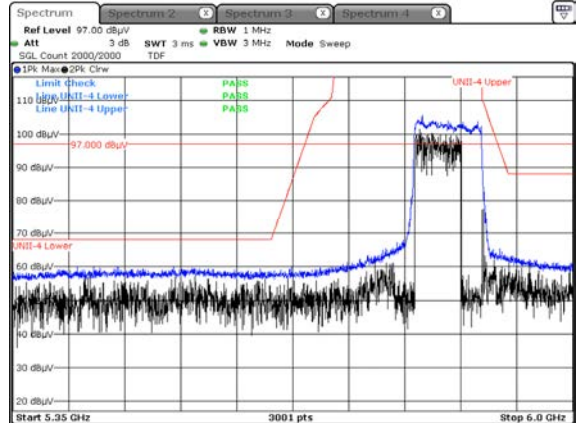
Peak Result (802.11n_HT40, Ch.167, X-H)



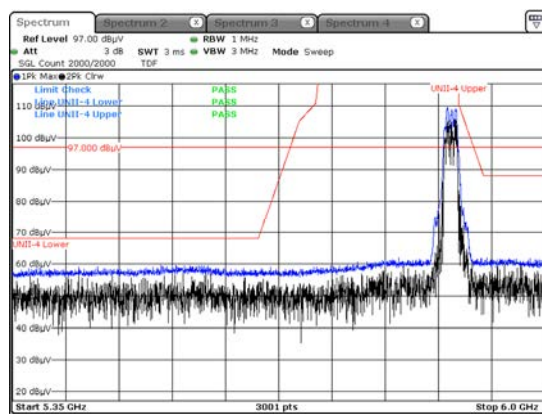
Peak Result (802.11ac_VHT40, Ch.167, X-H)



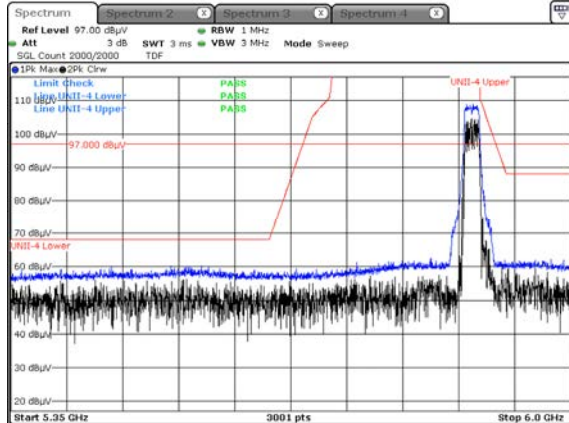
Peak Result (802.11ac_VHT80, Ch.171, X-H)



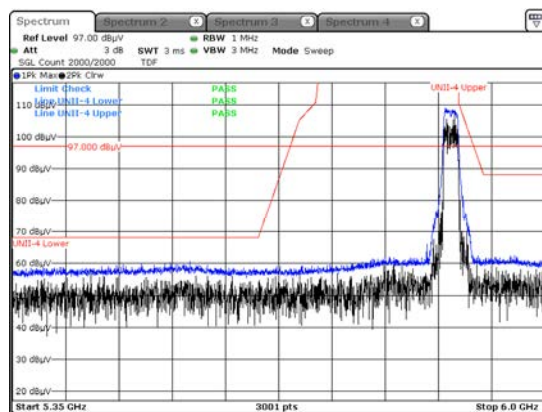
Peak Result (802.11a, Ch.177, X-H)



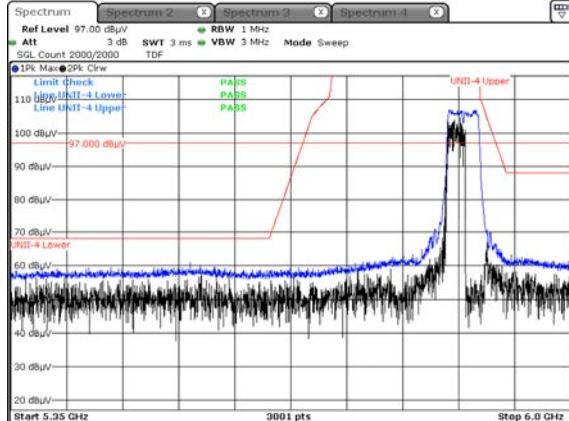
Peak Result (802.11n_HT20, Ch.177, X-H)



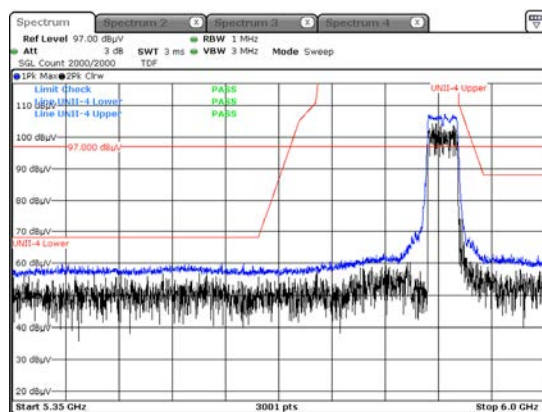
Peak Result (802.11ac_VHT20, Ch.177, X-H)



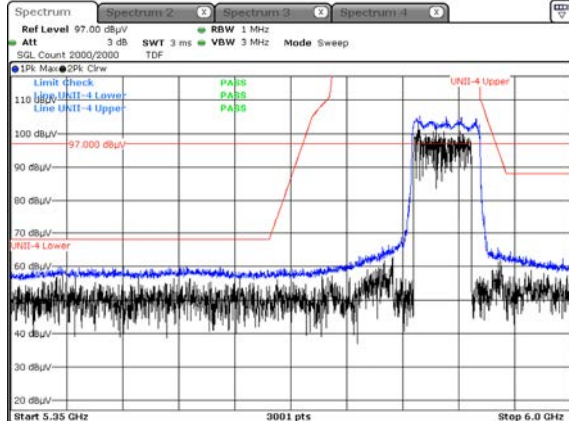
Peak Result (802.11n_HT40, Ch.175, X-H)



Peak Result (802.11ac_VHT40, Ch.175, X-H)



Peak Result (802.11ac_VHT80, Ch.171, X-H)

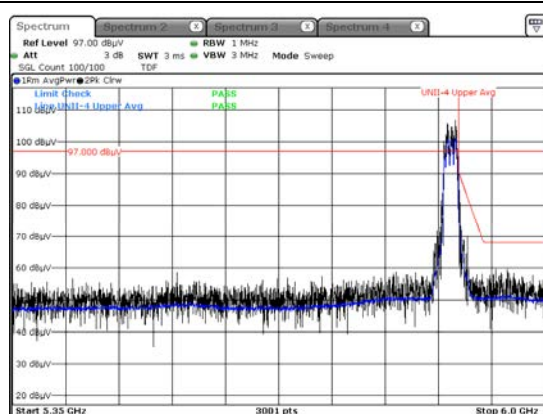


Note:

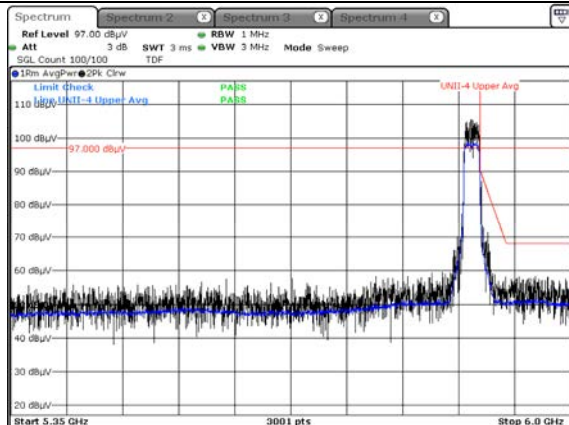
1. Only the worst case plots for U-NII-4 O.O.B.E

Average Result

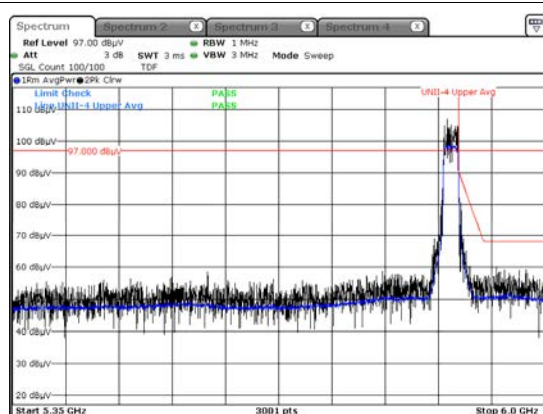
Average Result (802.11a, Ch.177, X-H)



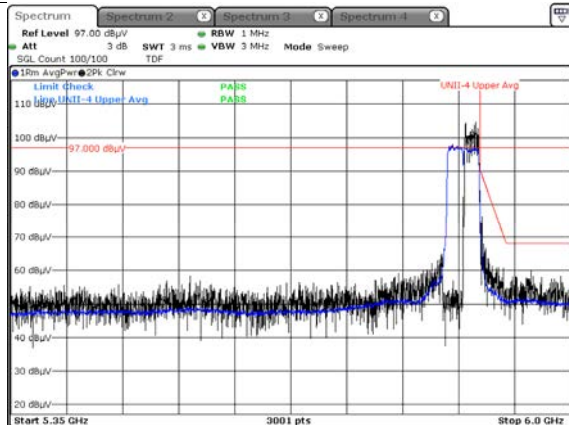
Average Result (802.11n_HT20, Ch.177, X-H)



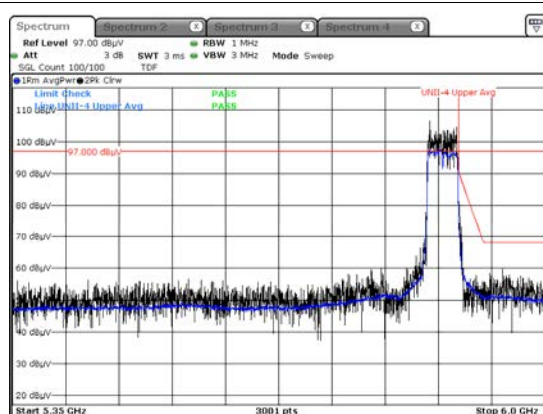
Average Result (802.11ac_VHT20, Ch.177, X-H)



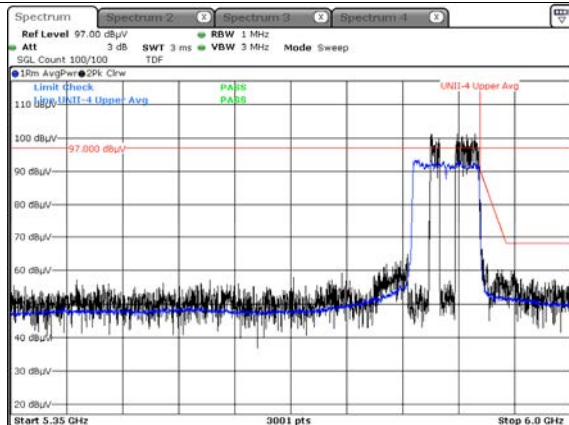
Average Result (802.11n_HT40, Ch.175, X-H)



Average Result (802.11ac_VHT40, Ch.175, X-H)



Average Result (802.11ac_VHT80, Ch.171, X-H)



Note:

1. Only the worst case plots for U-NII-4 O.O.B.E

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions

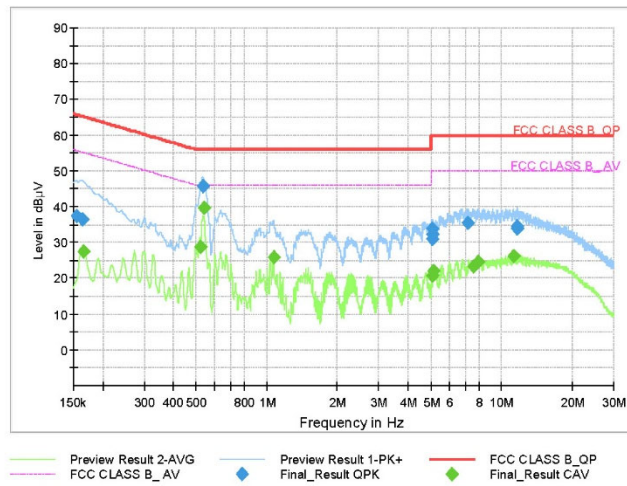
Test

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Test Report**Common Information**

EUT : SM-A376U
Operating Conditions : 5G WLAN Mode
Comment :

Full Spectrum

**Final_Result_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1545	37.51	65.75	28.25	9.000	L1	9.8
0.1635	36.61	65.28	28.67	9.000	N	9.7
0.5338	45.84	56.00	10.16	9.000	L1	9.8
5.0450	30.90	60.00	29.10	9.000	N	9.9
5.0810	32.29	60.00	27.71	9.000	L1	10.0
5.0855	34.07	60.00	25.93	9.000	N	9.9
7.1915	35.43	60.00	24.57	9.000	L1	10.1
11.6375	34.05	60.00	25.95	9.000	N	10.2
11.7095	34.61	60.00	25.39	9.000	L1	10.2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1658	27.62	55.17	27.55	9.000	L1	9.8
0.5203	28.68	46.00	17.32	9.000	L1	9.8
0.5383	39.76	46.00	6.24	9.000	L1	9.8
1.0693	25.93	46.00	20.07	9.000	L1	9.8
5.0540	20.87	50.00	29.13	9.000	L1	10.0
5.1238	22.07	50.00	27.93	9.000	L1	10.0
7.6303	23.36	50.00	26.64	9.000	L1	10.1
7.9610	24.58	50.00	25.42	9.000	L1	10.1
11.3113	26.19	50.00	23.81	9.000	L1	10.2

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11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/15/2026	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	08/20/2026	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	02/11/2026	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	11/28/2026	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	100935	07/24/2026	Annual
Power Meter	N1911A	Agilent	MY45100523	02/21/2026	Annual
Power Sensor	N1921A	Agilent	MY57820067	02/04/2026	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/14/2026	Annual
Power Splitter	11667B	Hewlett Packard	05001	04/10/2026	Annual
DC Power Supply	E3632A	H.P	KR75303243	04/16/2026	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	05/27/2026	Annual
Bluetooth Tester	CBT	Rohde & Schwarz	100752	12/27/2025	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
Automation Software	FCC WLAN Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC Bluetooth Conducted	HCT CO., LTD	-	-	-

Note:

1. Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update.
All reported measurements were performed using equipment within valid calibration.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/1031/ 41190717/P	N/A	N/A
Antenna Mast	MA4640	Innco system	S2AM	07/25/2026	Annual
Turn Table	DS2000-S	Innco system	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/07/2026	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	760	02/17/2027	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	01/29/2026	Biennial
Horn Antenna (15GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Spectrum Analyzer	FSV40	Rohde & Schwarz	100901	02/21/2026	Annual
Signal Analyzer	N9030A	Agilent	MY52350879	03/25/2026	Annual
Attenuator(3 dB)	18B-03	Api tech.	1	04/21/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	5	05/27/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	6	05/27/2026	Annual
Band Reject Filter	WRCJV2400/2483.5- 2370/2520-60/12SS	Wainwright Instruments	2	12/26/2025	Annual
Band Reject Filter	WRCJV5100/5850-40/50- 8EEK	Wainwright Instruments	1	01/09/2026	Annual
RF Switching System	FMSR-04B (3G HPF+LNA)	T&M SYSTEM	S2L1	12/23/2025	Annual
RF Switching System	FMSR-04B (10dB ATT+LNA)	T&M SYSTEM	S2L2	12/23/2025	Annual
RF Switching System	FMSR-04B (3dB ATT+LNA)	T&M SYSTEM	S2L3	12/23/2025	Annual
RF Switching System	FMSR-04B (LNA)	T&M SYSTEM	S2L4	12/23/2025	Annual
RF Switching System	FMSR-04B (7G HPF+LNA)	T&M SYSTEM	S2L5	12/23/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	10/21/2026	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	03/12/2026	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD	-	-	-

Note:

- Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update.
All reported measurements were performed using equipment within valid calibration.
- Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2512-FC040-P