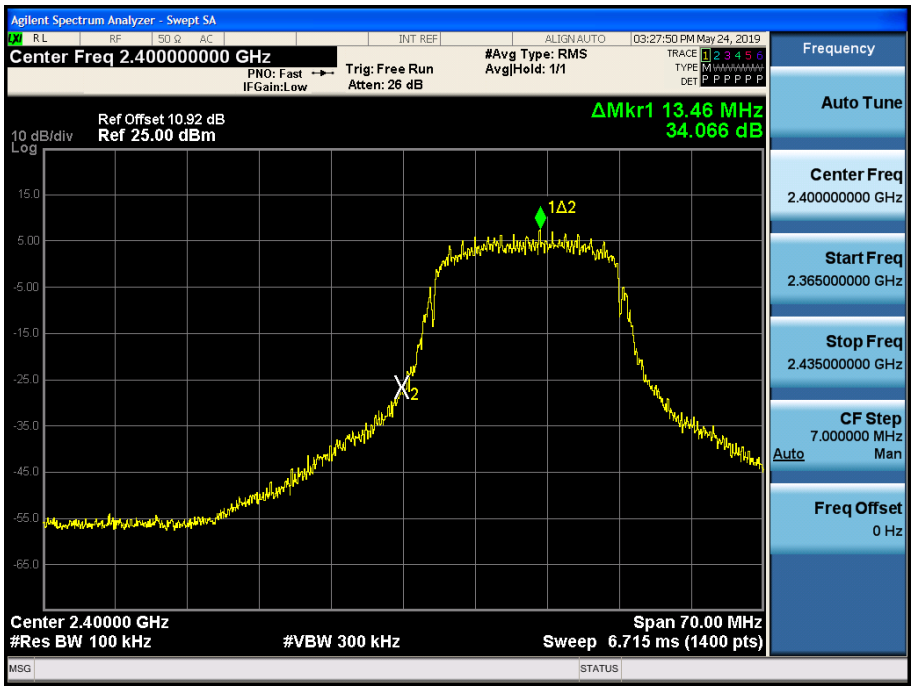
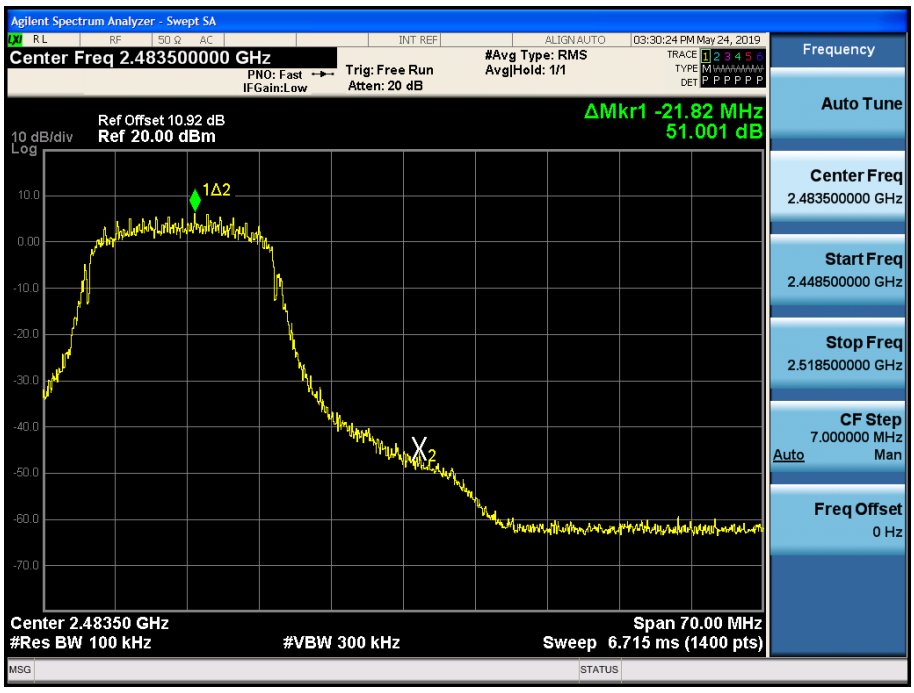
Band Edge (802.11n(HT20)-CH 1)



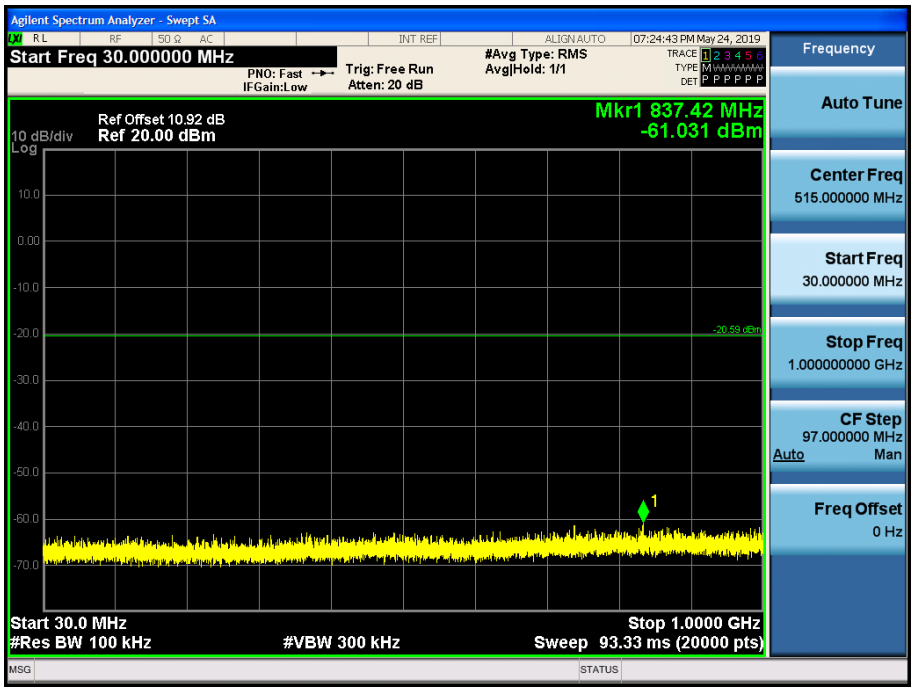
Band Edge (802.11n(HT20)-CH 11)



▣ Test Plots(Conducted Spurious Emission)

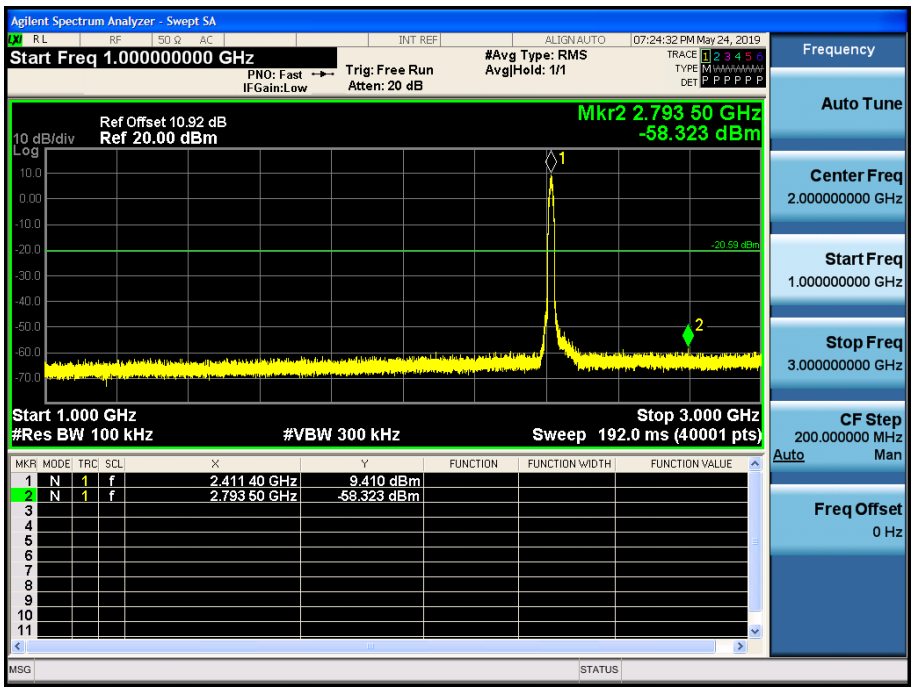
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



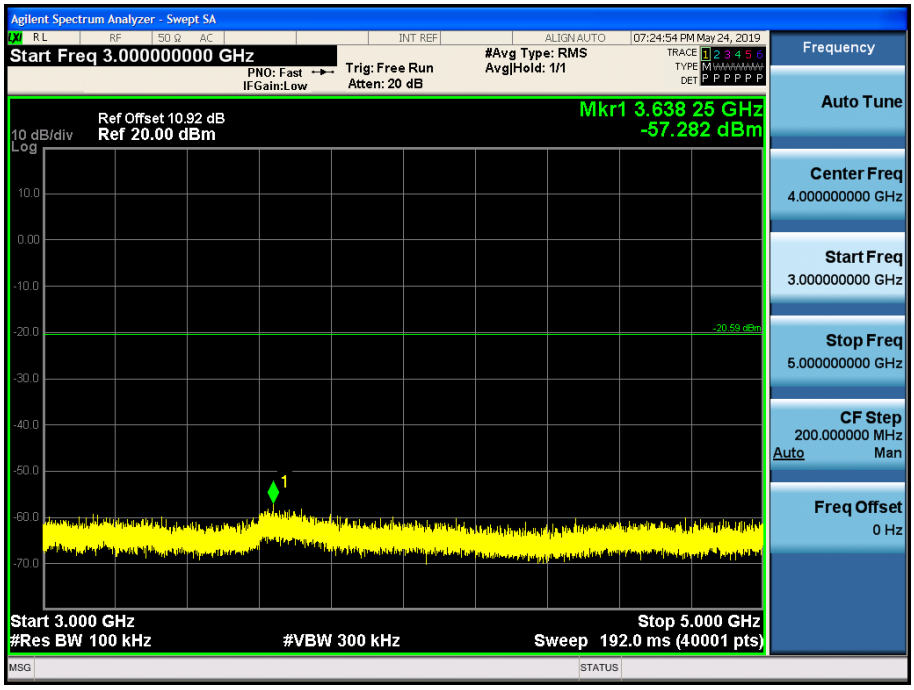
1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



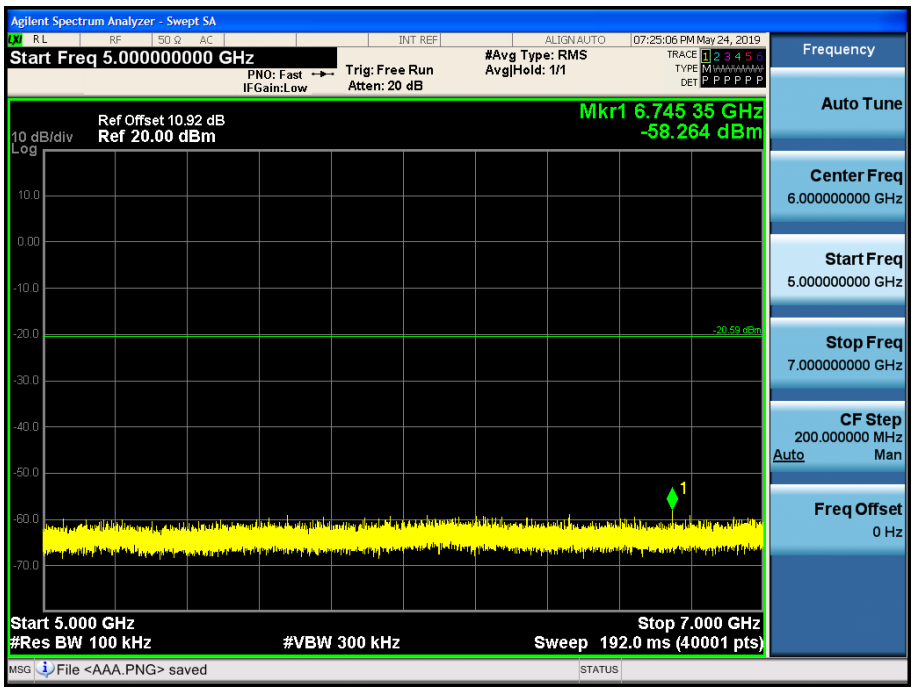
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



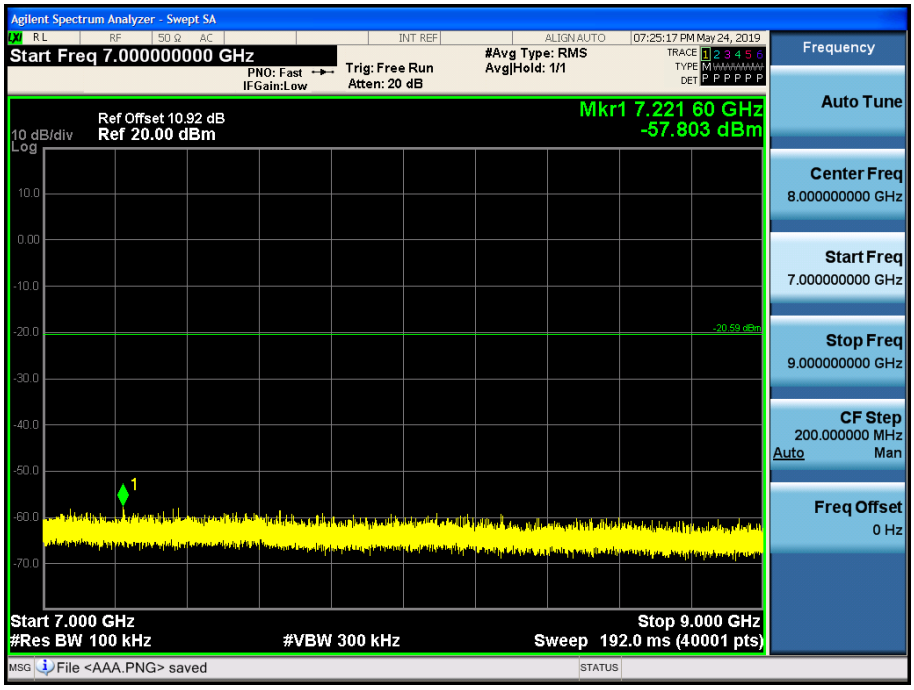
5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



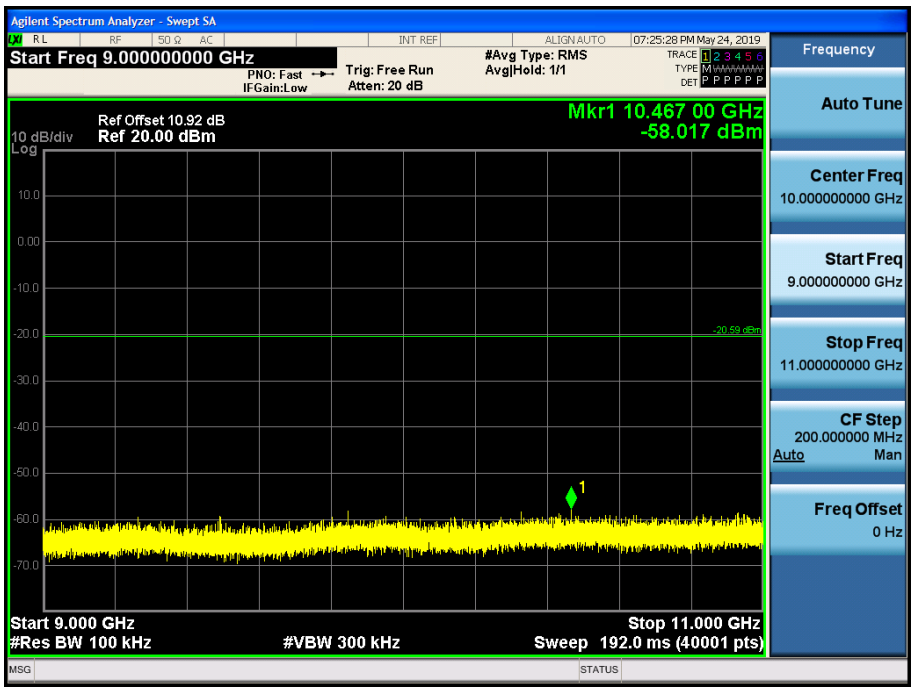
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



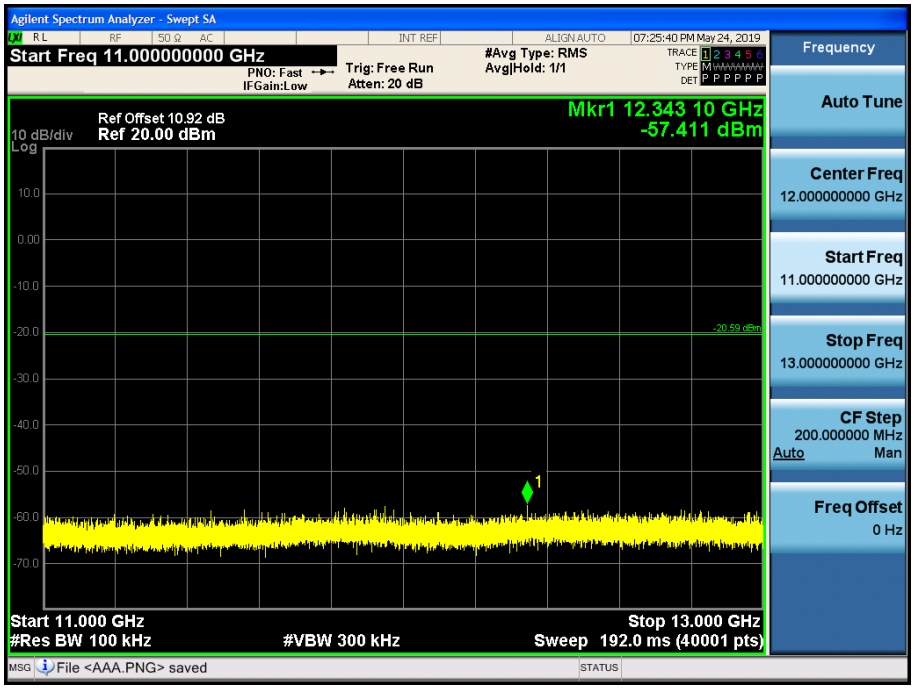
9 GHz ~ 11 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



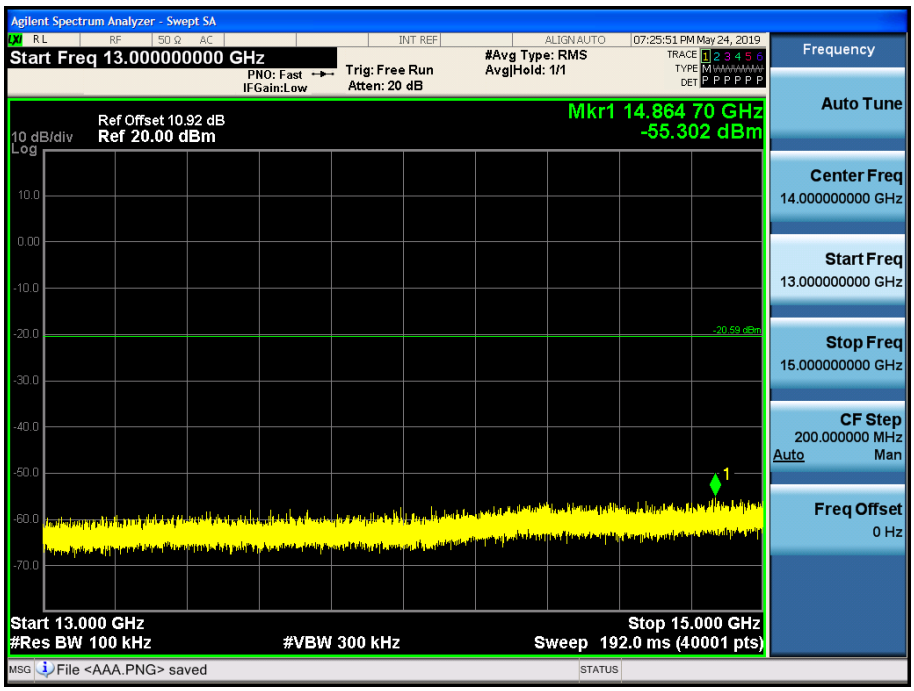
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



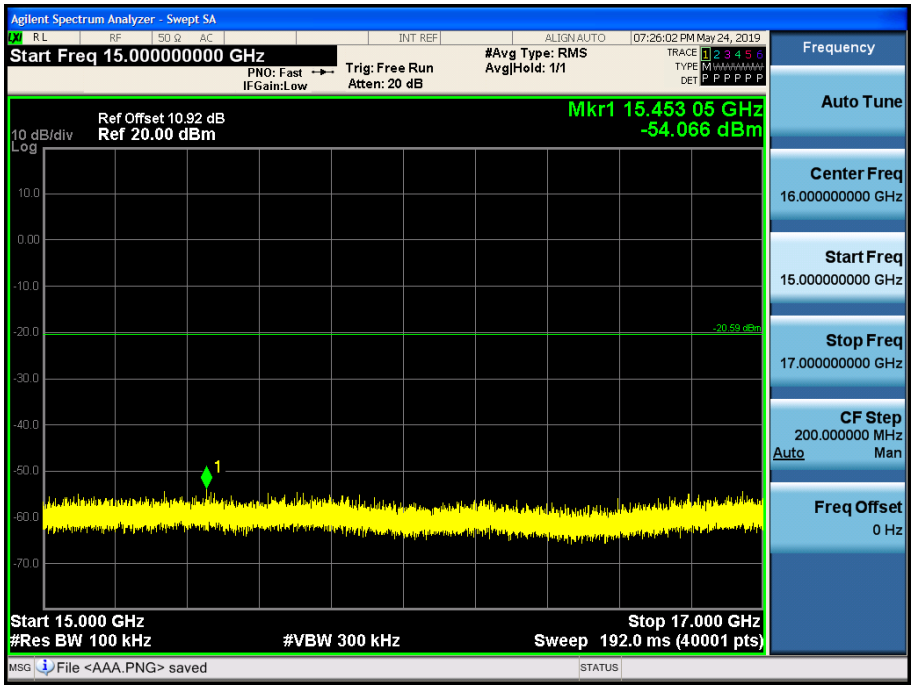
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



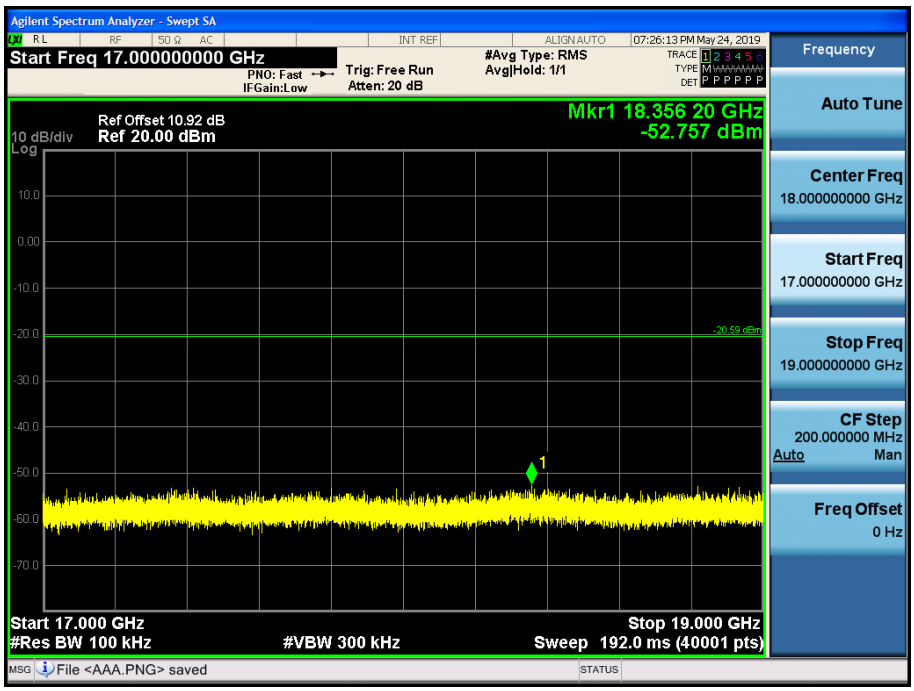
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



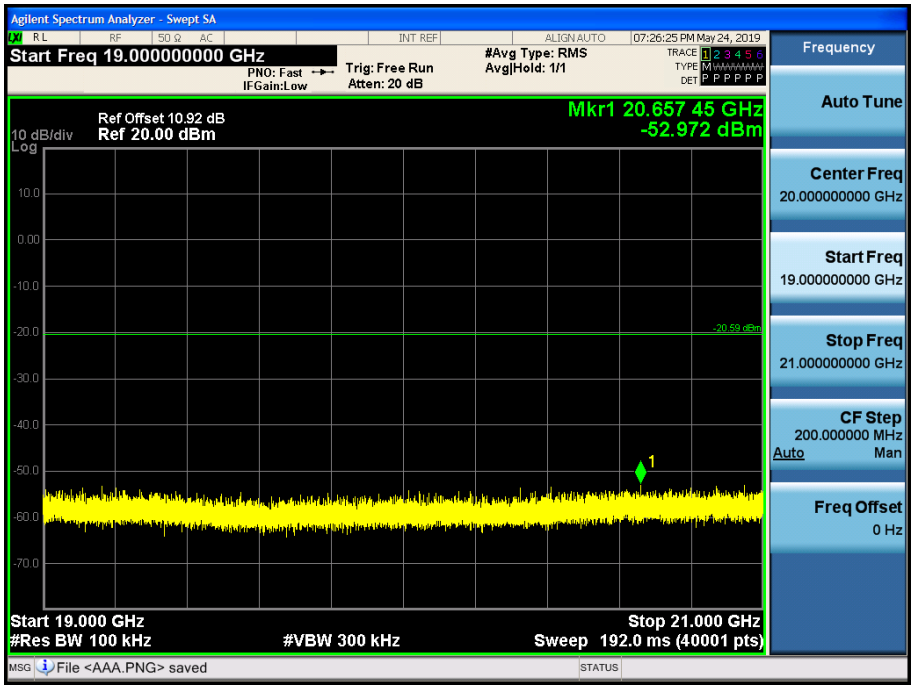
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



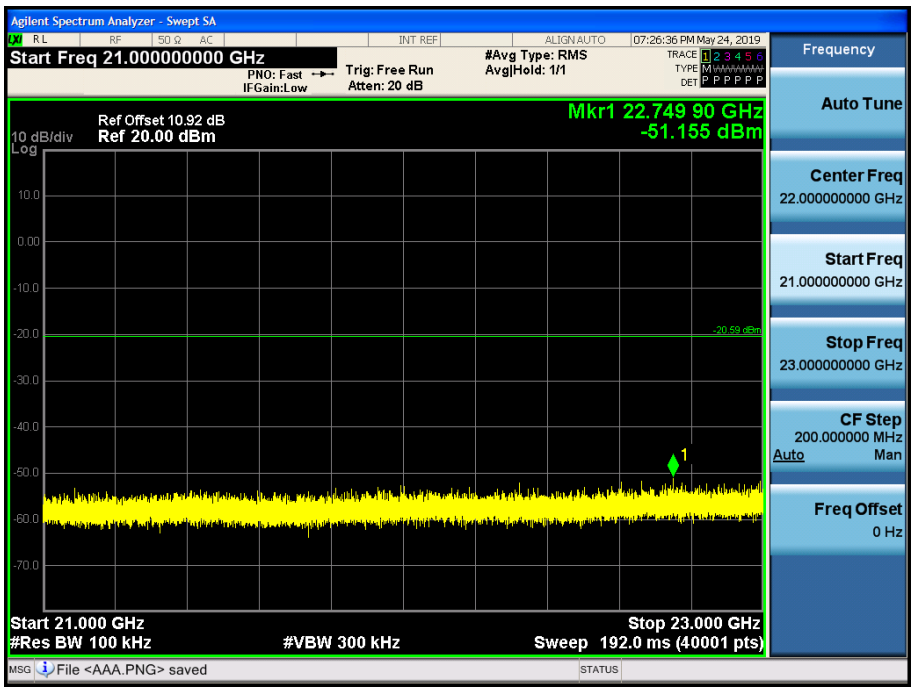
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



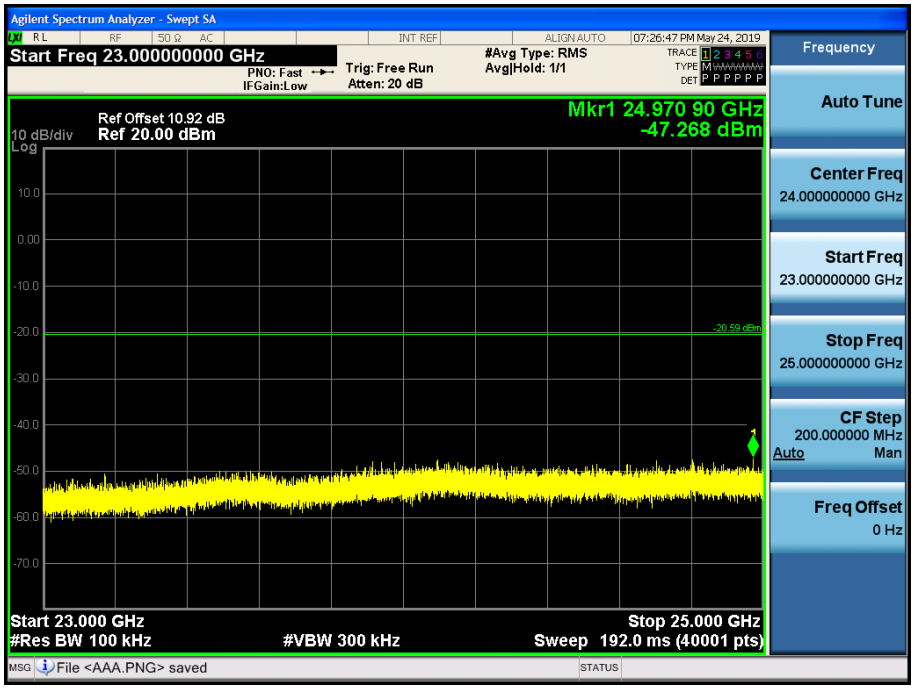
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 Mbps)



23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11b_Ch.1_11 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*log (specific distance / 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.

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	48.34	0.56	V	48.90	73.98	25.09	PK
4824	38.55	0.56	V	39.11	53.98	14.88	AV
7236	44.28	9.47	V	53.75	73.98	20.23	PK
7236	32.66	9.47	V	42.13	53.98	11.85	AV
4824	48.95	0.56	H	49.51	73.98	24.48	PK
4824	38.95	0.56	H	39.51	53.98	14.48	AV
7236	44.59	9.47	H	54.06	73.98	19.92	PK
7236	32.75	9.47	H	42.22	53.98	11.76	AV

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]	Measurement Type
4824	48.65	0.00	0.56	V	49.21	73.98	24.78	PK
4824	36.98	0.34	0.56	V	37.87	53.98	16.11	AV
7236	44.38	0.00	9.47	V	53.85	73.98	20.13	PK
7236	32.85	0.34	9.47	V	42.66	53.98	11.32	AV
4824	49.17	0.00	0.56	H	49.73	73.98	24.26	PK
4824	37.11	0.34	0.56	H	38.00	53.98	15.98	AV
7236	45.10	0.00	9.47	H	54.57	73.98	19.41	PK
7236	32.90	0.34	9.47	H	42.71	53.98	11.27	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	48.88	0.00	0.56	V	49.44	73.98	24.55	PK
4824	36.95	0.36	0.56	V	37.86	53.98	16.12	AV
7236	44.54	0.00	9.47	V	54.01	73.98	19.97	PK
7236	32.90	0.36	9.47	V	42.73	53.98	11.25	AV
4824	49.05	0.00	0.56	H	49.61	73.98	24.38	PK
4824	37.08	0.36	0.56	H	37.99	53.98	15.99	AV
7236	44.89	0.00	9.47	H	54.36	73.98	19.62	PK
7236	32.81	0.36	9.47	H	42.64	53.98	11.34	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	48.05	0.87	V	48.92	73.98	25.07	PK
4874	37.31	0.87	V	38.18	53.98	15.81	AV
7311	44.89	9.16	V	54.05	73.98	19.93	PK
7311	33.42	9.16	V	42.58	53.98	11.40	AV
4874	48.26	0.87	H	49.13	73.98	24.86	PK
4874	37.55	0.87	H	38.42	53.98	15.57	AV
7311	45.30	9.16	H	54.46	73.98	19.52	PK
7311	33.52	9.16	H	42.68	53.98	11.30	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]	Measurement Type
4874	47.45	0.00	0.87	V	48.32	73.98	25.67	PK
4874	36.02	0.34	0.87	V	37.22	53.98	16.76	AV
7311	45.14	0.00	9.16	V	54.30	73.98	19.68	PK
7311	33.48	0.34	9.16	V	42.98	53.98	11.00	AV
4874	47.99	0.00	0.87	H	48.86	73.98	25.13	PK
4874	36.11	0.34	0.87	H	37.31	53.98	16.67	AV
7311	45.38	0.00	9.16	H	54.54	73.98	19.44	PK
7311	33.44	0.34	9.16	H	42.94	53.98	11.04	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]	Measurement Type
4874	48.13	0.00	0.87	V	49.00	73.98	24.99	PK
4874	36.10	0.36	0.87	V	37.32	53.98	16.66	AV
7311	45.23	0.00	9.16	V	54.39	73.98	19.59	PK
7311	33.42	0.36	9.16	V	42.94	53.98	11.04	AV
4874	48.20	0.00	0.87	H	49.07	73.98	24.92	PK
4874	36.18	0.36	0.87	H	37.40	53.98	16.58	AV
7311	45.77	0.00	9.16	H	54.93	73.98	19.05	PK
7311	33.38	0.36	9.16	H	42.90	53.98	11.08	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	48.65	0.81	V	49.46	73.98	24.53	PK
4924	38.78	0.81	V	39.59	53.98	14.40	AV
7386	45.01	9.38	V	54.39	73.98	19.59	PK
7386	33.08	9.38	V	42.46	53.98	11.52	AV
4924	48.87	0.81	H	49.68	73.98	24.31	PK
4924	39.05	0.81	H	39.86	53.98	14.13	AV
7386	45.21	9.38	H	54.59	73.98	19.39	PK
7386	33.15	9.38	H	42.53	53.98	11.45	AV

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

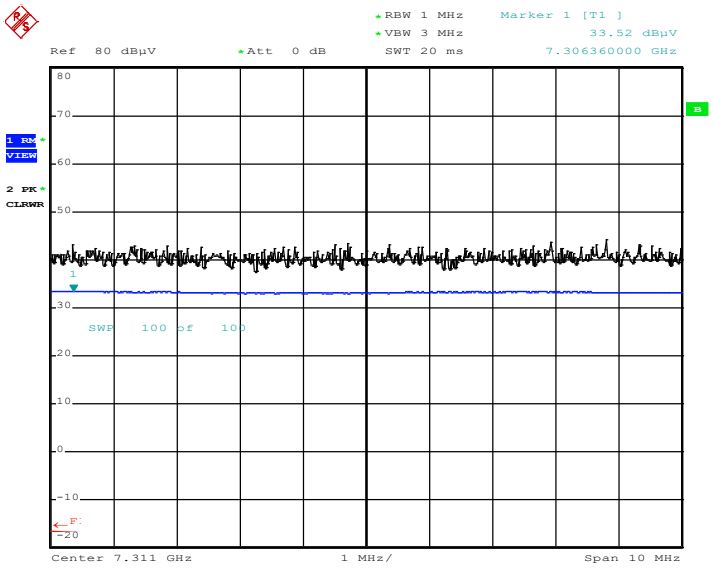
Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4924	48.43	0.00	0.81	V	49.24	73.98	24.75	PK
4924	36.75	0.34	0.81	V	37.89	53.98	16.09	AV
7386	45.34	0.00	9.38	V	54.72	73.98	19.26	PK
7386	33.18	0.34	9.38	V	42.90	53.98	11.08	AV
4924	48.69	0.00	0.81	H	49.50	73.98	24.49	PK
4924	36.83	0.34	0.81	H	37.97	53.98	16.01	AV
7386	45.50	0.00	9.38	H	54.88	73.98	19.10	PK
7386	33.20	0.34	9.38	H	42.92	53.98	11.06	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]	Measurement Type
4924	48.07	0.00	0.81	V	48.88	73.98	25.11	PK
4924	36.70	0.36	0.81	V	37.86	53.98	16.12	AV
7386	45.01	0.00	9.38	V	54.39	73.98	19.59	PK
7386	33.08	0.36	9.38	V	42.82	53.98	11.16	AV
4924	48.51	0.00	0.81	H	49.32	73.98	24.67	PK
4924	36.66	0.36	0.81	H	37.82	53.98	16.16	AV
7386	45.15	0.00	9.38	H	54.53	73.98	19.45	PK
7386	33.14	0.36	9.38	H	42.88	53.98	11.10	AV

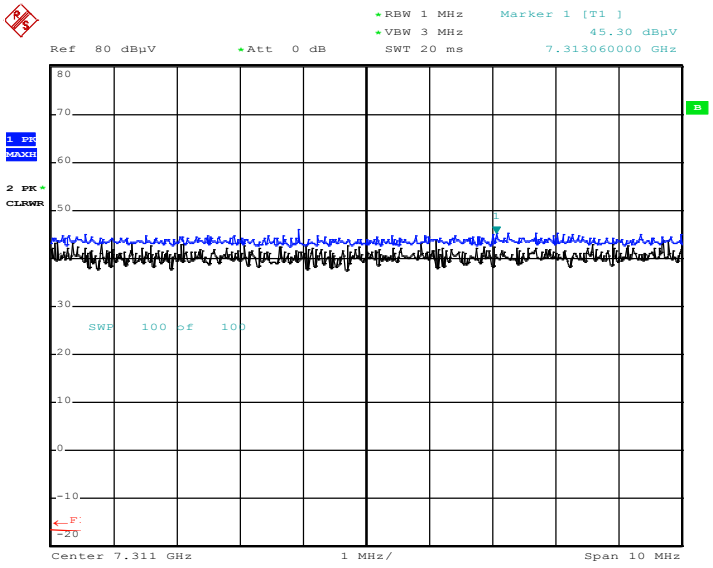
▣ Test Plots (Worst case : X-H)

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



Date: 17.MAY.2019 15:00:07

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



Date: 17.MAY.2019 15:00:36

Note:

Plot of worst case are only reported.

9.7 RADIATED RESTRICTED BAND EDGES

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	24.62	33.39	H	58.01	73.98	15.97	PK
2390.0	13.75	33.39	H	47.14	53.98	6.84	AV
2390.0	24.55	33.39	V	57.94	73.98	16.04	PK
2390.0	13.68	33.39	V	47.07	53.98	6.91	AV
2483.5	25.80	33.39	H	59.19	73.98	14.79	PK
2483.5	15.10	33.39	H	48.49	53.98	5.49	AV
2483.5	25.64	33.39	V	59.03	73.98	14.95	PK
2483.5	14.99	33.39	V	48.38	53.98	5.60	AV

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	36.18	0.00	33.39	H	69.57	73.98	4.41	PK
2390.0	17.75	0.34	33.39	H	51.48	53.98	2.50	AV
2390.0	34.45	0.00	33.39	V	67.84	73.98	6.14	PK
2390.0	17.56	0.34	33.39	V	51.29	53.98	2.69	AV
* 2483.5~2484.5	29.29	0.00	33.39	H	62.68	73.98	11.30	PK
* 2483.5~2484.5	17.25	0.34	33.39	H	50.98	53.98	3.00	AV
2484.5~2500	31.96	0.00	33.39	H	65.35	73.98	8.63	PK
2484.5~2500	16.95	0.34	33.39	H	50.68	53.98	3.30	AV
* 2483.5~2484.5	28.67	0.00	33.39	V	62.06	73.98	11.92	PK
* 2483.5~2484.5	16.80	0.34	33.39	V	50.53	53.98	3.45	AV
2484.5~2500	31.50	0.00	33.39	V	64.89	73.98	9.09	PK
2484.5~2500	16.45	0.34	33.39	V	50.18	53.98	3.80	AV

Note:

* : Procedure 11.13.3 (Integration method) in ANSI 63.10-2013

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

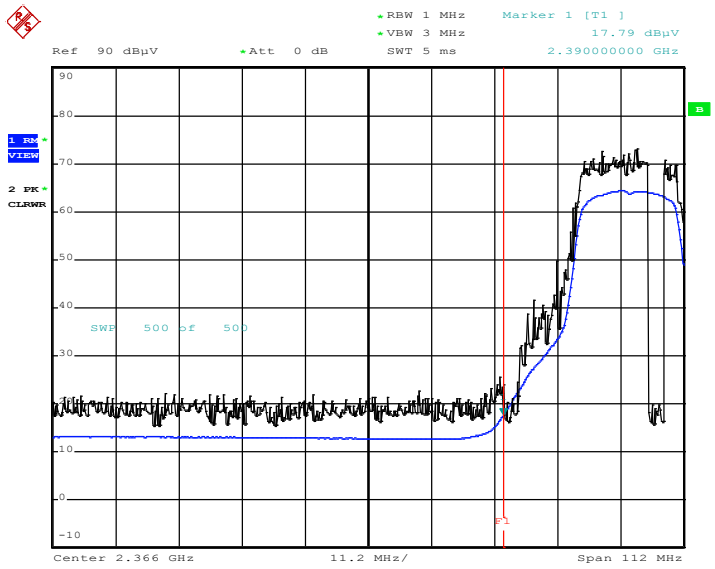
Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	35.62	0.00	33.39	H	69.01	73.98	4.97	PK
2390.0	17.79	0.36	33.39	H	51.54	53.98	2.44	AV
2390.0	34.73	0.00	33.39	V	68.12	73.98	5.86	PK
2390.0	17.60	0.36	33.39	V	51.35	53.98	2.63	AV
* 2483.5~2484.5	30.02	0.00	33.39	H	63.41	73.98	10.57	PK
* 2483.5~2484.5	17.43	0.36	33.39	H	51.18	53.98	2.80	AV
2484.5~2500	35.37	0.00	33.39	H	68.76	73.98	5.22	PK
2484.5~2500	17.00	0.36	33.39	H	50.75	53.98	3.23	AV
* 2483.5~2484.5	29.98	0.00	33.39	V	63.37	73.98	10.61	PK
* 2483.5~2484.5	17.36	0.36	33.39	V	51.11	53.98	2.87	AV
2484.5~2500	35.19	0.00	33.39	V	68.58	73.98	5.40	PK
2484.5~2500	16.97	0.36	33.39	V	50.72	53.98	3.26	AV

Note:

* : Procedure 11.13.3 (Integration method) in ANSI 63.10-2013

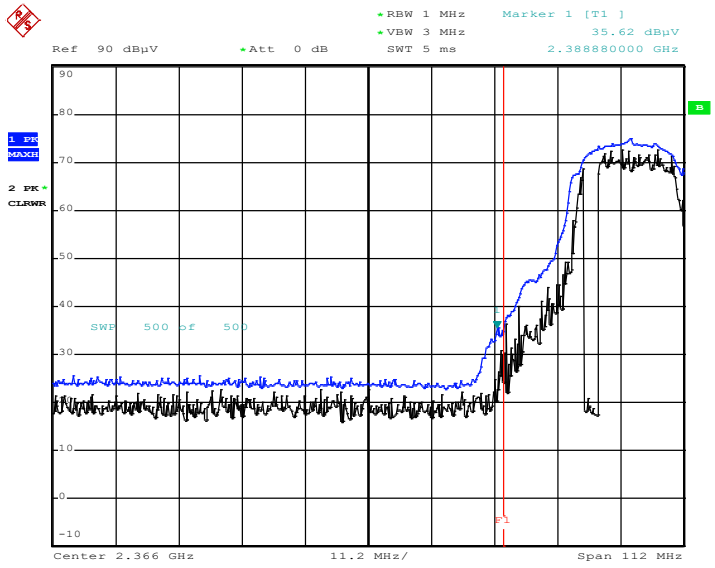
▣ Test Plots (Worst case : X-H)

Radiated Restricted Band Edges plot – Average Reading (802.11n(HT20) Ch.1)



Date: 17.MAY.2019 12:07:49

Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT20) Ch.1)



Date: 17.MAY.2019 12:07:09

Note:

Plot of worst case are only reported.

9.8 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

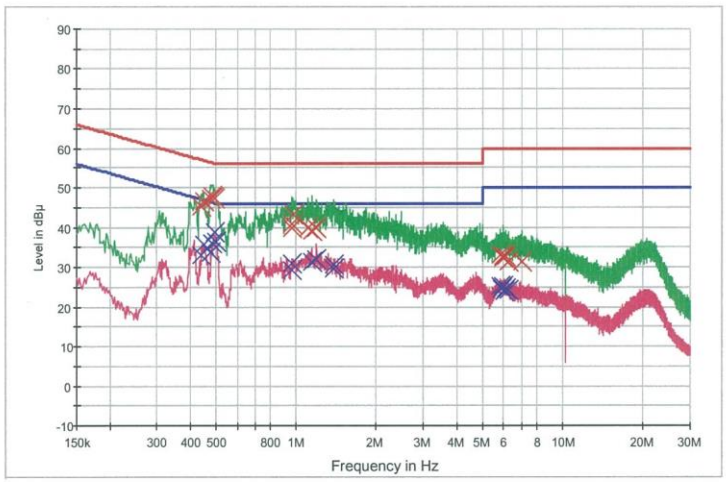
2.4G WLAN MODE L1 1 / 2

HCT TEST Report

Common Information

EUT:	SM-T517P
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	2.4G WLAN MODE L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.442000	45.3	9.000	Off	L1	9.7	11.8	57.0
0.448000	46.5	9.000	Off	L1	9.7	10.4	56.9
0.476000	47.1	9.000	Off	L1	9.8	9.3	56.4
0.482000	48.1	9.000	Off	L1	9.8	8.2	56.3
0.486000	47.5	9.000	Off	L1	9.8	8.7	56.2
0.492000	47.3	9.000	Off	L1	9.8	8.9	56.1
0.964000	40.9	9.000	Off	L1	9.8	15.1	56.0
0.968000	39.7	9.000	Off	L1	9.8	16.3	56.0
0.978000	43.1	9.000	Off	L1	9.8	12.9	56.0
1.104000	39.7	9.000	Off	L1	9.8	16.3	56.0
1.144000	39.2	9.000	Off	L1	9.8	16.8	56.0
1.194000	39.7	9.000	Off	L1	9.8	16.3	56.0
5.856000	33.2	9.000	Off	L1	10.1	26.8	60.0
5.938000	32.4	9.000	Off	L1	10.1	27.6	60.0
6.004000	32.6	9.000	Off	L1	10.1	27.4	60.0
6.080000	32.7	9.000	Off	L1	10.1	27.3	60.0
6.224000	31.3	9.000	Off	L1	10.1	28.7	60.0
7.018000	31.2	9.000	Off	L1	10.1	28.8	60.0

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2.4G WLAN MODE L1 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.442000	33.0	9.000	Off	L1	9.7	14.0	47.0
0.448000	35.8	9.000	Off	L1	9.7	11.1	46.9
0.478000	33.8	9.000	Off	L1	9.8	12.5	46.4
0.482000	36.1	9.000	Off	L1	9.8	10.2	46.3
0.492000	38.9	9.000	Off	L1	9.8	7.3	46.1
0.498000	36.6	9.000	Off	L1	9.8	9.4	46.0
0.960000	31.2	9.000	Off	L1	9.8	14.8	46.0
0.968000	29.5	9.000	Off	L1	9.8	16.5	46.0
1.146000	31.4	9.000	Off	L1	9.8	14.6	46.0
1.194000	32.2	9.000	Off	L1	9.8	13.8	46.0
1.386000	30.8	9.000	Off	L1	9.9	15.2	46.0
1.390000	29.8	9.000	Off	L1	9.9	16.2	46.0
5.856000	25.4	9.000	Off	L1	10.1	24.6	50.0
5.900000	24.7	9.000	Off	L1	10.1	25.3	50.0
6.004000	25.2	9.000	Off	L1	10.1	24.8	50.0
6.018000	23.9	9.000	Off	L1	10.1	26.1	50.0
6.080000	24.5	9.000	Off	L1	10.1	25.5	50.0
6.224000	24.4	9.000	Off	L1	10.1	25.6	50.0

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Conducted Emissions (Line 2)

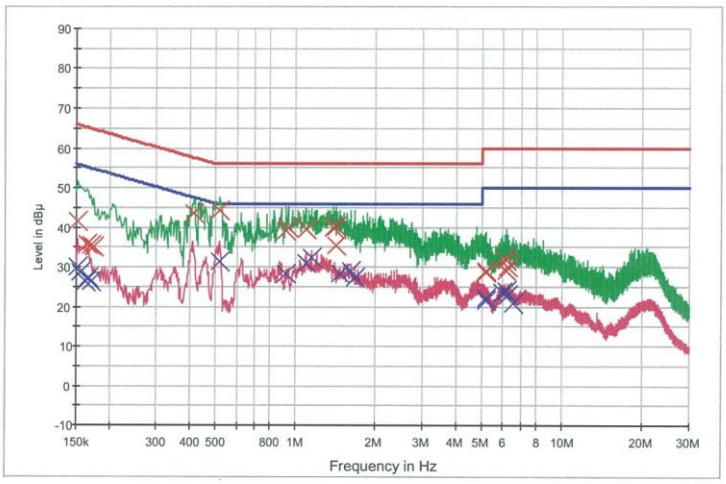
2.4G WLAN MODE N 1 / 2

HCT TEST Report

Common Information

EUT:	SM-T517P
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	2.4G 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)
0.152000	41.4	9.000	Off	N	9.8	24.5	65.9
0.164000	35.8	9.000	Off	N	9.8	29.5	65.3
0.170000	35.5	9.000	Off	N	9.8	29.5	65.0
0.174000	34.9	9.000	Off	N	9.8	29.8	64.8
0.416000	43.5	9.000	Off	N	9.9	14.0	57.5
0.520000	44.2	9.000	Off	N	9.9	11.8	56.0
0.922000	39.0	9.000	Off	N	10.0	17.0	56.0
0.936000	39.7	9.000	Off	N	10.0	16.3	56.0
1.090000	39.4	9.000	Off	N	10.0	16.6	56.0
1.380000	39.7	9.000	Off	N	10.1	16.3	56.0
1.410000	40.0	9.000	Off	N	10.1	16.0	56.0
1.418000	35.5	9.000	Off	N	10.1	20.5	56.0
5.162000	28.6	9.000	Off	N	10.2	31.4	60.0
5.214000	29.0	9.000	Off	N	10.2	31.0	60.0
6.104000	32.0	9.000	Off	N	10.3	28.0	60.0
6.158000	31.6	9.000	Off	N	10.3	28.4	60.0
6.214000	29.0	9.000	Off	N	10.3	31.0	60.0
6.224000	30.1	9.000	Off	N	10.3	29.9	60.0

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2.4G WLAN MODE N

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	30.0	9.000	Off	N	9.8	25.9	55.9
0.156000	28.7	9.000	Off	N	9.8	27.0	55.7
0.162000	26.4	9.000	Off	N	9.8	29.0	55.4
0.166000	27.4	9.000	Off	N	9.8	27.8	55.2
0.170000	26.3	9.000	Off	N	9.8	28.6	55.0
0.520000	31.4	9.000	Off	N	9.9	14.6	46.0
0.922000	28.2	9.000	Off	N	10.0	17.8	46.0
1.090000	31.0	9.000	Off	N	10.0	15.0	46.0
1.146000	32.4	9.000	Off	N	10.0	13.6	46.0
1.464000	28.3	9.000	Off	N	10.1	17.7	46.0
1.612000	29.1	9.000	Off	N	10.1	16.9	46.0
1.668000	27.3	9.000	Off	N	10.1	18.7	46.0
5.162000	21.6	9.000	Off	N	10.2	28.4	50.0
5.180000	22.2	9.000	Off	N	10.2	27.8	50.0
5.994000	23.4	9.000	Off	N	10.3	26.6	50.0
6.156000	24.0	9.000	Off	N	10.3	26.0	50.0
6.224000	23.0	9.000	Off	N	10.3	27.0	50.0
6.574000	20.7	9.000	Off	N	10.3	29.3	50.0

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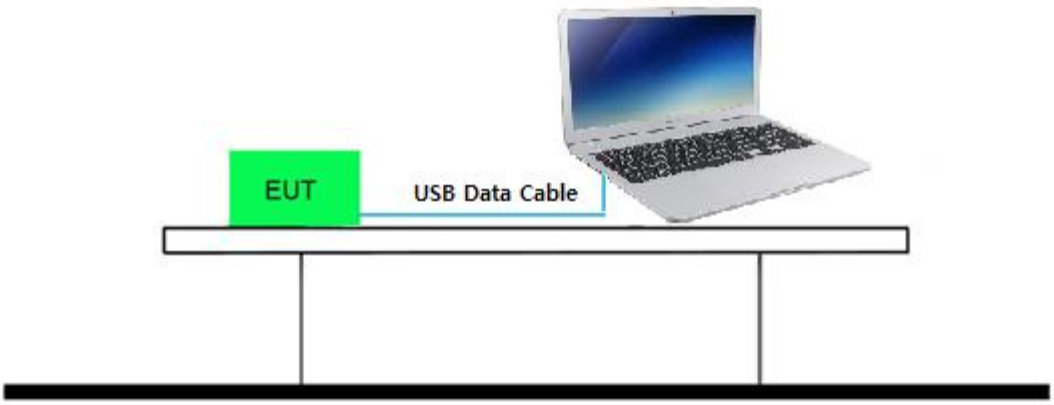
9.9 CONFIRMATION OF GEO-LOCATION MECHANISM

The device uses MCC information obtained from the public cellular carrier to determine that it is operating outside the U.S. and then enable channels 12 and 13 only if a non-US MCC that supports channel 12 and 13 is confirmed.
The device uses a geo-location mechanism based on the Country in order to only enable certain WLAN DTS bands when the device is not in the USA.

WLAN	Country code = US	Country code = KR(Korea)
CH 12	Did not connect	Connected
CH 13	Did not connect	Connected

The verification tests confirmed the operational of the geo-location mechanism.

Test Setup



Test Procedure

1. Open Command Prompt.
2. At the Command Prompt, enter the command.

- C:\adb>adb remount
- C:\adb>adb shell
- gts4lv:/ # wpa_cli DRIVER COUNTRY US // Setting the country.
- gts4lv:/ # wpa_cli DRIVER GETREGULATORY 0 // Channel list is obtain.

Setting the country for product & Verification test

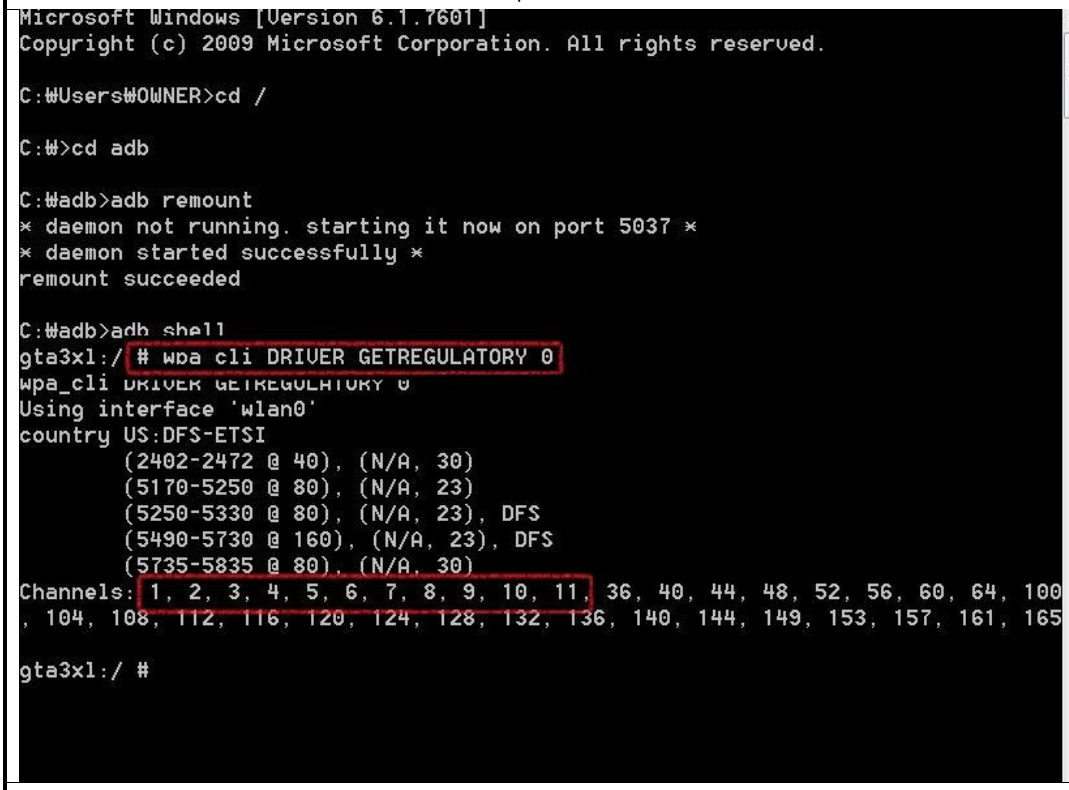
Country code = US

```
C:₩Users₩OWNER>cd /

C:₩>cd adb

C:₩adb>adb remount
remount succeeded

C:₩adb>adb shell
gta3xl:/ # wpa_cli DRIVER COUNTRY US
wpa_cli DRIVER COUNTRY US
Using interface 'wlan0'
OK
gta3xl:/ # wpa_cli DRIVER GETREGULATORY 0
wpa_cli DRIVER GETREGULATORY 0
Using interface 'wlan0'
country US:DFS-ETSI
        (2402-2472 @ 40), (N/A, 30)
        (5170-5250 @ 80), (N/A, 23)
        (5250-5330 @ 80), (N/A, 23), DFS
        (5490-5730 @ 160), (N/A, 23), DFS
        (5735-5835 @ 80), (N/A, 30)
Channels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11  36, 40, 44, 48, 52, 56, 60, 64, 100
, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165

gta3xl:/ #
```

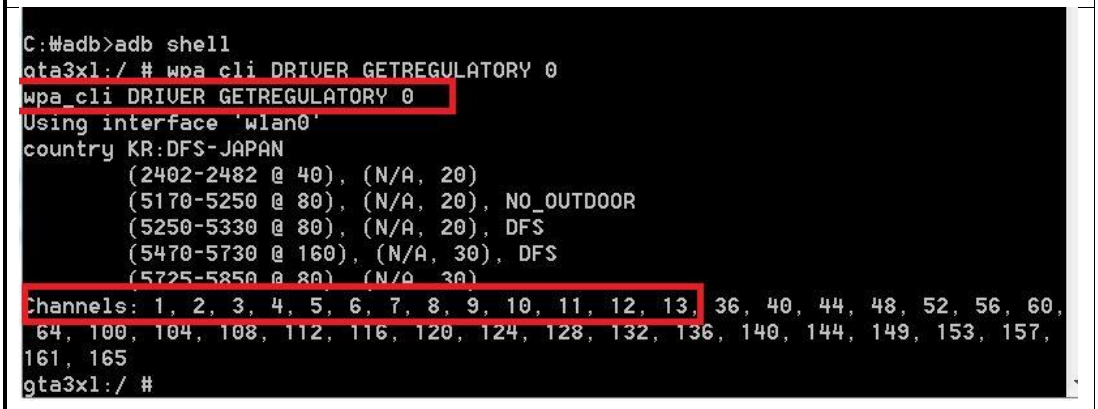
Country code = KR(Korea)

```
gta3xl:/ # wpa_cli DRIVER COUNTRY KR
wpa_cli DRIVER COUNTRY KR
Using interface 'wlan0'
OK
gta3xl:/ # wpa_cli DRIVER GETREGULATORY 0
wpa_cli DRIVER GETREGULATORY 0
Using interface 'wlan0'
country KR:DFS-JAPAN
        (2402-2482 @ 40), (N/A, 20)
        (5170-5250 @ 80), (N/A, 20), NO_OUTDOOR
        (5250-5330 @ 80), (N/A, 20), DFS
        (5470-5730 @ 160), (N/A, 30), DFS
        (5725-5850 @ 80), (N/A, 30)
Channels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 36, 40, 44, 48, 52, 56, 60,
 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157,
161, 165
gta3xl:/ #
```

Airplane on



Airplane off



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	06/27/2018	Annual	100033
ESPAC	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	07/26/2018	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	06/26/2018	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2018	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

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	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	06/29/2018	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)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	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.

11. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1906-FC037-P