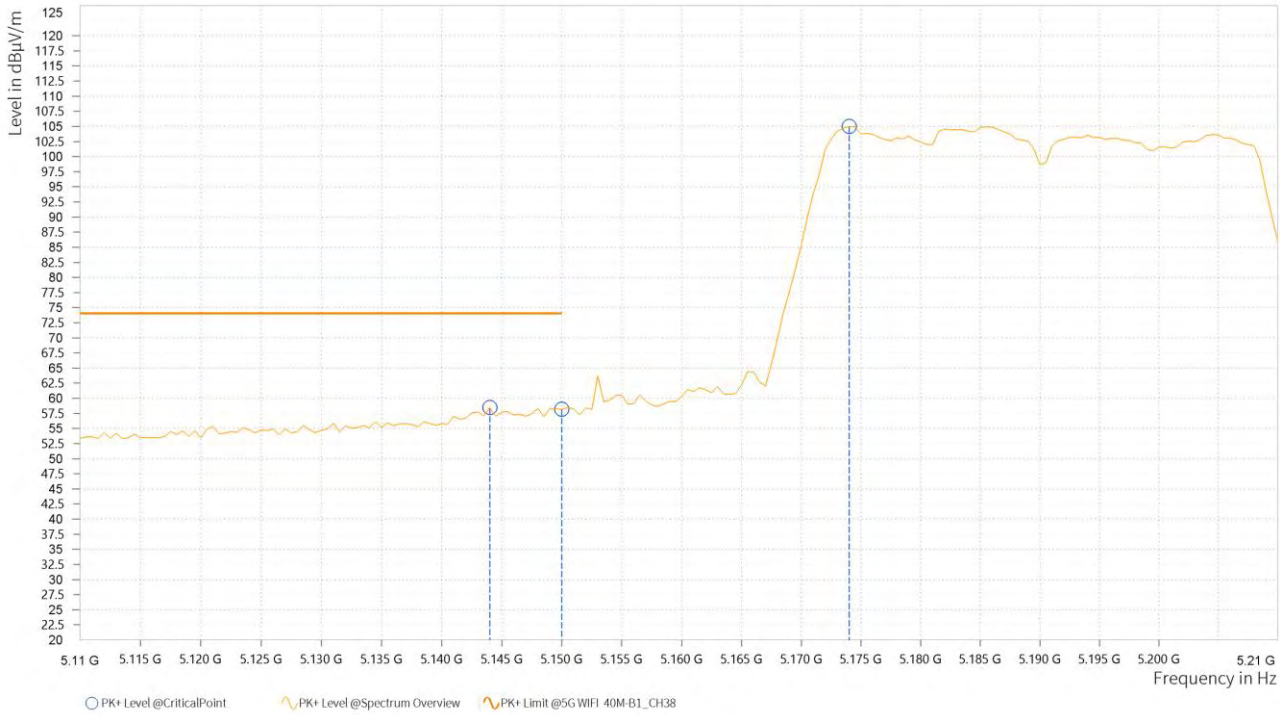
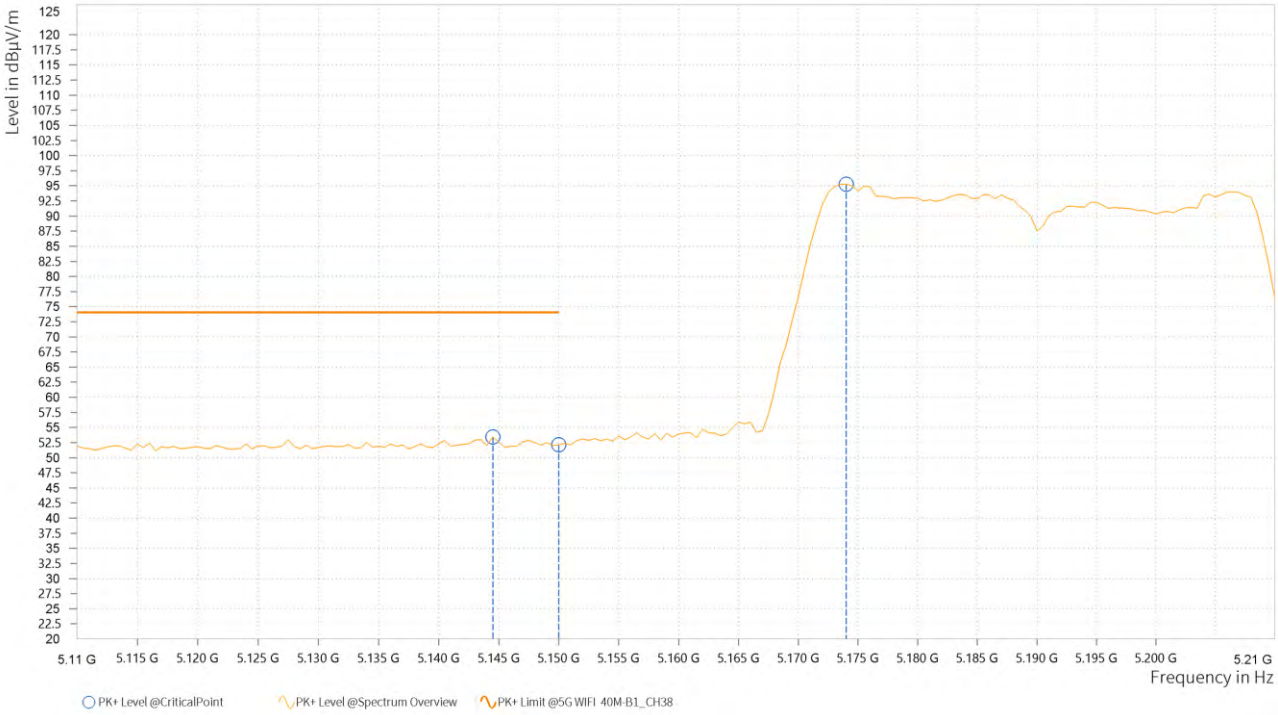
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,144.000	58.48	74.00	15.52	12.73	H	263.8	2
1	5,150.000	58.18	74.00	15.82	12.75	H	93.7	1
1	5,174.000	104.98			12.85	H	163.4	2

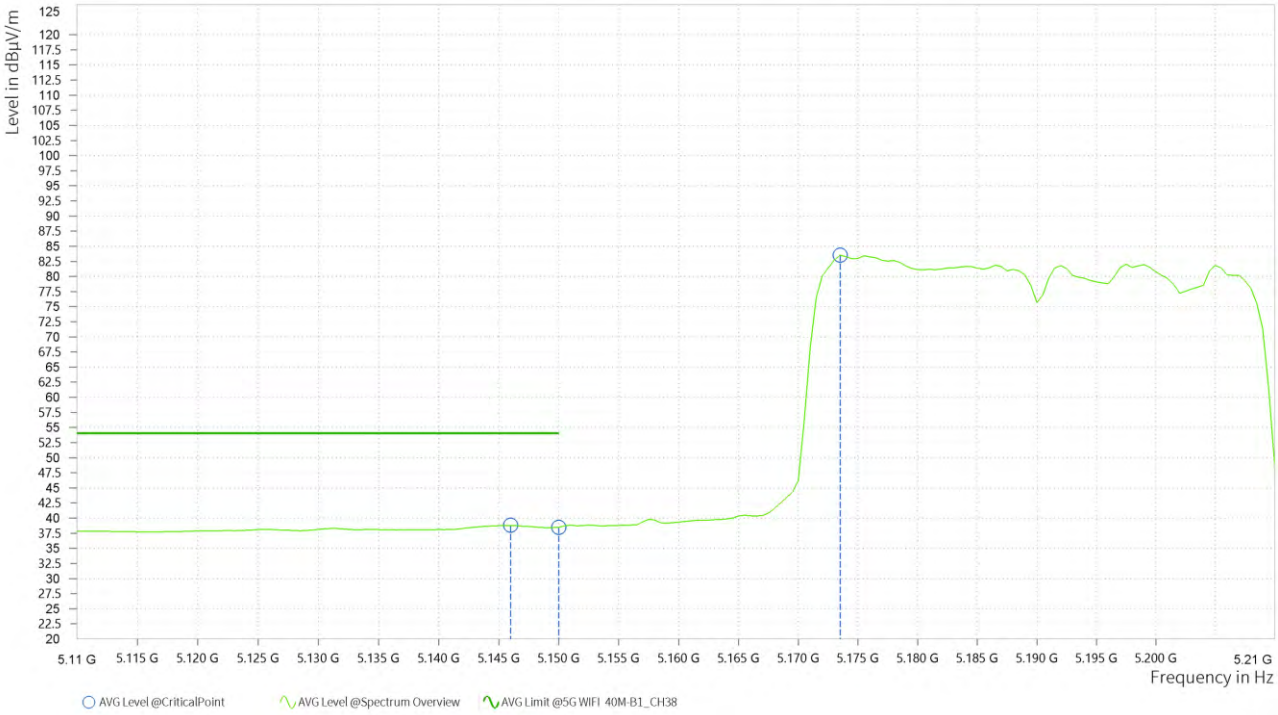


Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,149.500	44.58	54.00	9.42	12.75	H	355.7	2
1	5,150.000	45.23	54.00	8.77	12.75	H	355.7	2
1	5,206.000	92.63			12.94	H	355.7	2

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,144.500	53.44	74.00	20.56	12.73	V	358.4	1
1	5,150.000	52.13	74.00	21.87	12.75	V	296.9	1
1	5,174.000	95.27			12.85	V	147.5	1



Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,146.000	38.80	54.00	15.20	12.73	V	261.2	1
1	5,150.000	38.48	54.00	15.52	12.75	V	261.2	1
1	5,173.500	83.54			12.85	V	0.9	2



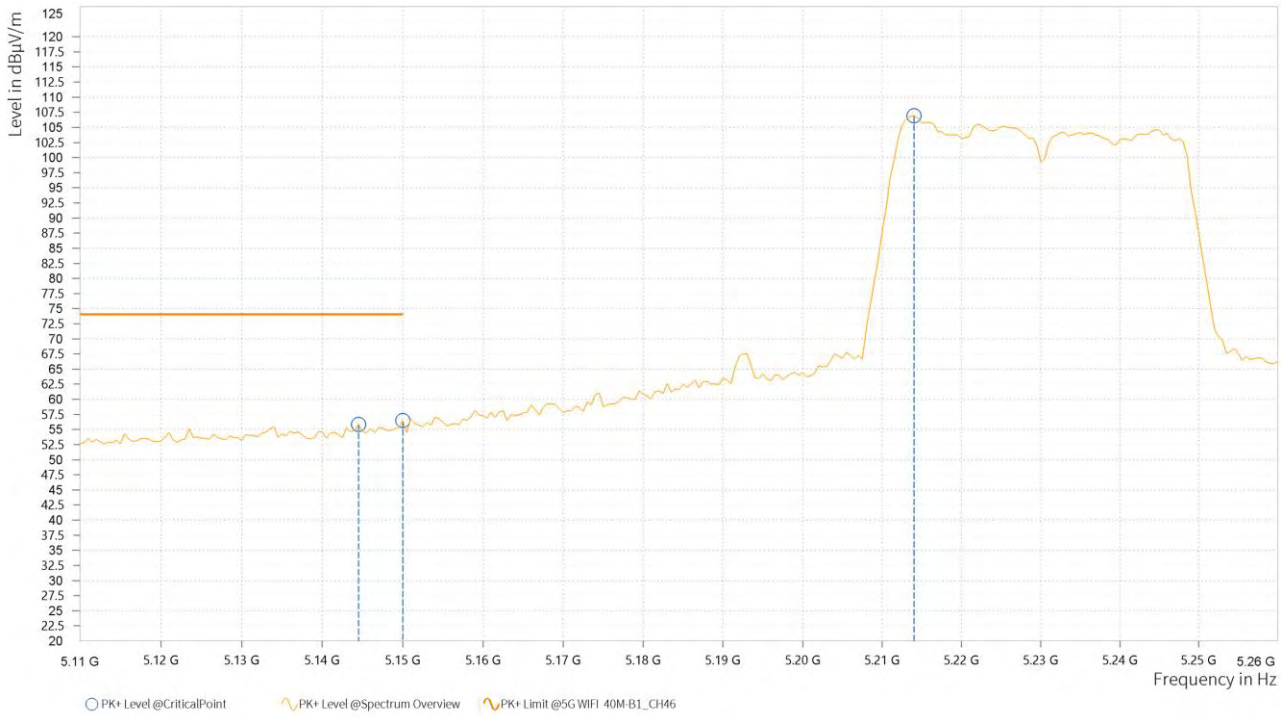
CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.69	55.76	74	-19.31	34.52	9.92	45.51	100	280	Peak
5150	50.62	51.69	54	-3.38	34.52	9.92	45.51	100	280	Average
5230	101.31	102.35	/	/	34.58	9.89	45.51	100	280	Peak
5230	95.17	96.21	/	/	34.58	9.89	45.51	100	280	Average
5350	52.43	53.41	74	-21.57	34.68	9.85	45.51	100	280	Peak
5350	48.6	49.58	54	-5.4	34.68	9.85	45.51	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.07	54.06	74	-20.93	34.6	9.92	45.51	100	175	Peak
5150	49.13	50.12	54	-4.87	34.6	9.92	45.51	100	175	Average
5230	94.22	95.24	/	/	34.6	9.89	45.51	100	175	Peak
5230	88.39	89.41	/	/	34.6	9.89	45.51	100	175	Average
5350	52.79	53.85	74	-21.21	34.6	9.85	45.51	100	175	Peak
5350	47.8	48.86	54	-6.2	34.6	9.85	45.51	100	175	Average

REMARKS:

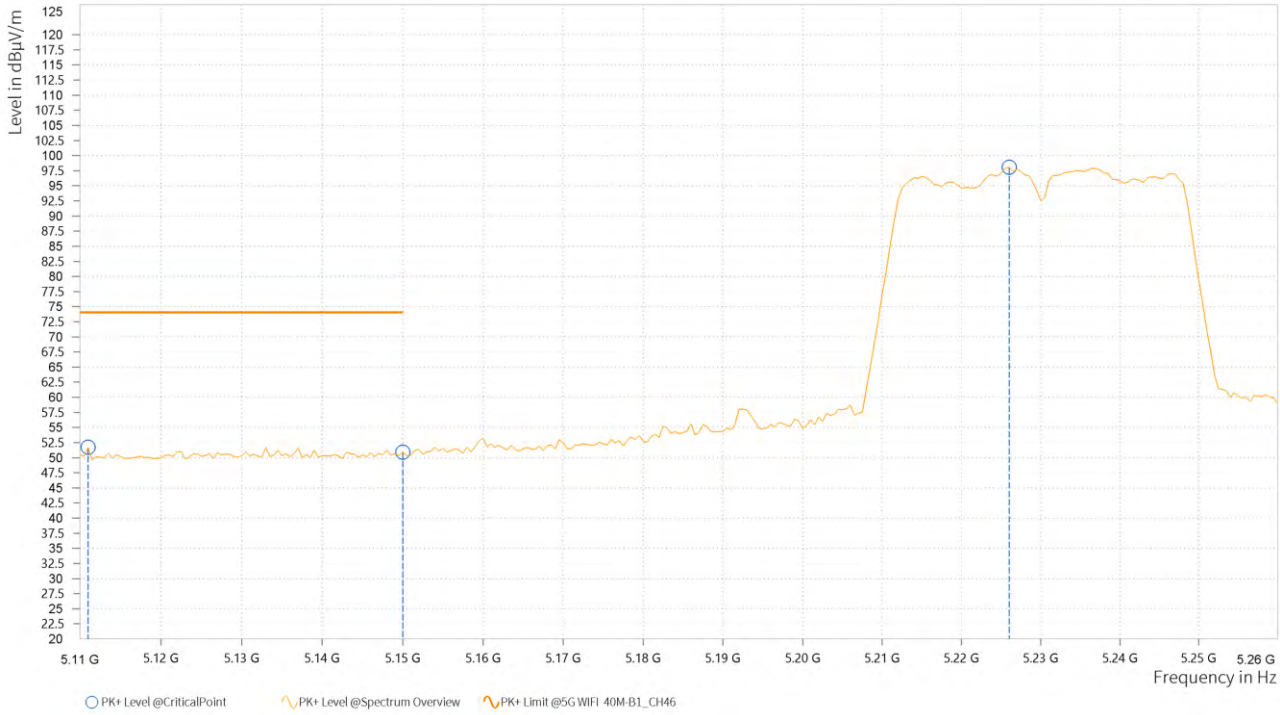
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,144.500	55.87	74.00	18.13	12.73	H	225.2	1
2	5,150.000	56.48	74.00	17.52	12.75	H	163.4	2
2	5,214.000	106.91			12.94	H	163.4	2



Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,149.000	42.10	54.00	11.90	12.74	H	355.7	2
2	5,150.000	42.22	54.00	11.78	12.75	H	355.7	2
2	5,214.500	78.18			12.94	H	355.7	2

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,111.000	51.73	74.00	22.27	12.64	V	359.1	1
2	5,150.000	50.89	74.00	23.11	12.75	V	213.7	2
2	5,226.000	98.07			12.94	V	344.5	1



Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,129.000	37.33	54.00	16.67	12.69	V	5	1
2	5,150.000	36.90	54.00	17.10	12.75	V	5	1
2	5,226.500	86.62			12.94	V	5	1

802.11ac (80MHz)

CHANNEL	TX Channel 42	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.81	55.88	74	-19.19	34.52	9.92	45.51	100	280	Peak
5150	52.35	53.42	54	-1.65	34.52	9.92	45.51	100	280	Average
5210	93.64	94.68	/	/	34.57	9.9	45.51	100	280	Peak
5210	88.31	89.35	/	/	34.57	9.9	45.51	100	280	Average
5350	53	53.98	74	-21	34.68	9.85	45.51	100	280	Peak
5350	48.31	49.29	54	-5.69	34.68	9.85	45.51	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.8	53.79	74	-21.2	34.6	9.92	45.51	100	175	Peak
5150	50.02	51.01	54	-3.98	34.6	9.92	45.51	100	175	Average
5210	86.89	87.9	/	/	34.6	9.9	45.51	100	175	Peak
5210	81.71	82.72	/	/	34.6	9.9	45.51	100	175	Average
5350	52.13	53.19	74	-21.87	34.6	9.85	45.51	100	175	Peak
5350	48.04	49.1	54	-5.96	34.6	9.85	45.51	100	175	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,146.975	58.56	74.00	15.44	12.74	H	225.3	1
1	5,150.000	57.44	74.00	16.56	12.75	H	225.3	1
1	5,179.700	99.17			12.87	H	135.9	2

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,149.525	44.87	54.00	9.13	12.75	H	355	2
1	5,150.000	45.04	54.00	8.96	12.75	H	355	2
1	5,199.250	86.54			12.94	H	355	2

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,132.525	53.37	74.00	20.63	12.70	V	147.5	1
1	5,150.000	53.43	74.00	20.57	12.75	V	212.5	2
1	5,236.225	89.25			12.94	V	356.5	1

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	5,125.300	38.55	54.00	15.45	12.67	V	355.6	2
1	5,150.000	38.42	54.00	15.58	12.75	V	1	1
1	5,233.675	77.90			12.94	V	359	1

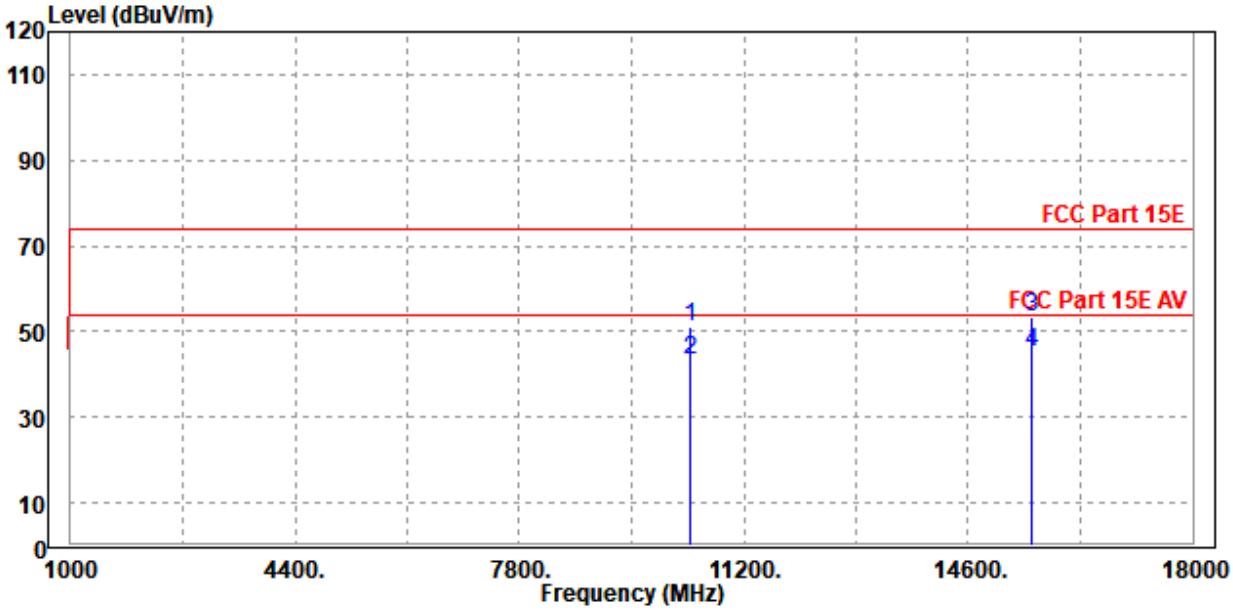
802.11n (40MHz)

Worst case harmonic:

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

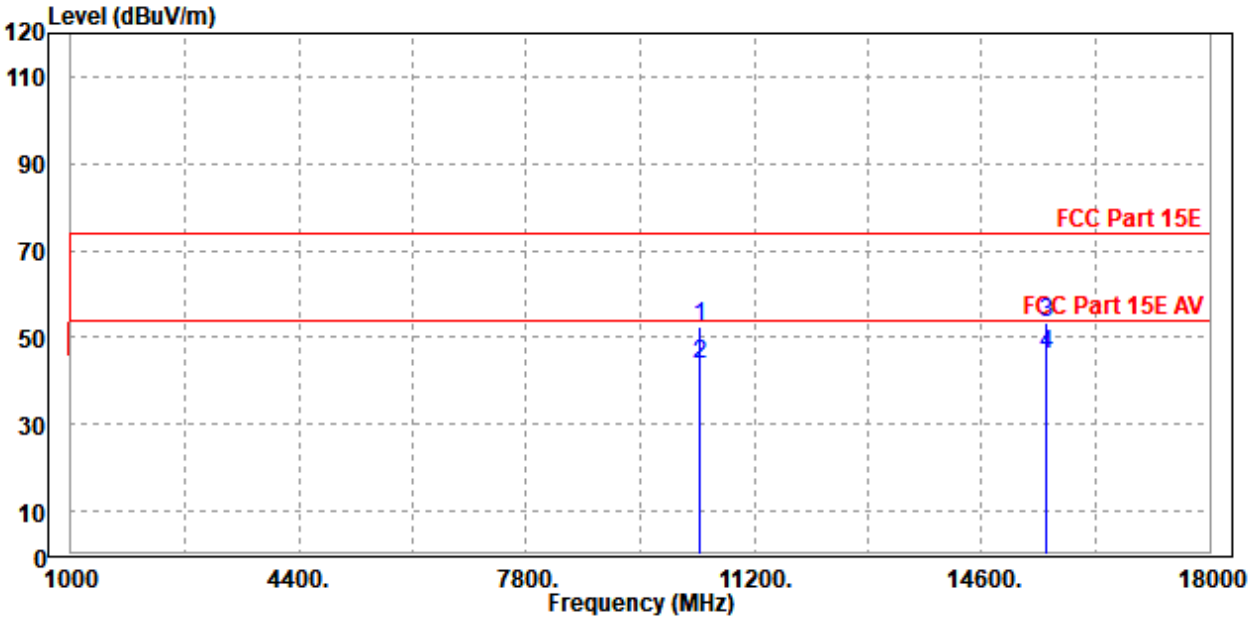
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10384.000	51.31	44.43	74.00	-22.69	6.88	Peak	Horizontal
2	10384.000	43.44	36.56	54.00	-10.56	6.88	Average	Horizontal
3	PK15570.000	53.56	40.71	74.00	-20.44	12.85	Peak	Horizontal
4	PP15570.000	45.05	32.20	54.00	-8.95	12.85	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10380.000	52.61	44.59	74.00	-21.39	8.02	Peak	Vertical
2	10380.000	43.90	35.88	54.00	-10.10	8.02	Average	Vertical
3	PK15569.000	53.36	41.50	74.00	-20.64	11.86	Peak	Vertical
4	PP15569.000	46.18	34.32	54.00	-7.82	11.86	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

RSE WORSE CASE(Angle Above 30 Degrees)

30 MHz – 1GHz data:
802.11ac (40MHz)

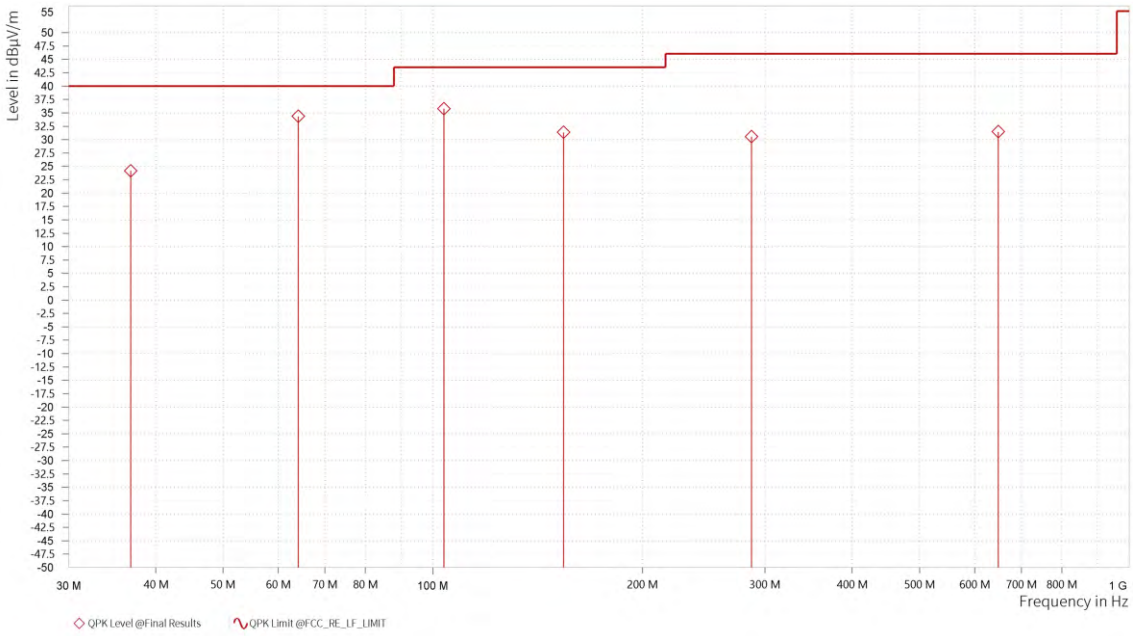
CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	36.834	24.17	40.00	15.83	-12.05	H	282.6	1	120.000
1	64.082	34.35	40.00	5.65	-12.32	H	77.4	2	120.000
1	103.764	35.77	43.50	7.73	-12.03	H	282.6	1	120.000
1	154.028	31.35	43.50	12.15	-15.06	H	282.6	1	120.000
1	286.830	30.54	46.00	15.46	-7.60	H	77.4	2	120.000
1	648.728	31.46	46.00	14.54	-2.56	H	359.1	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



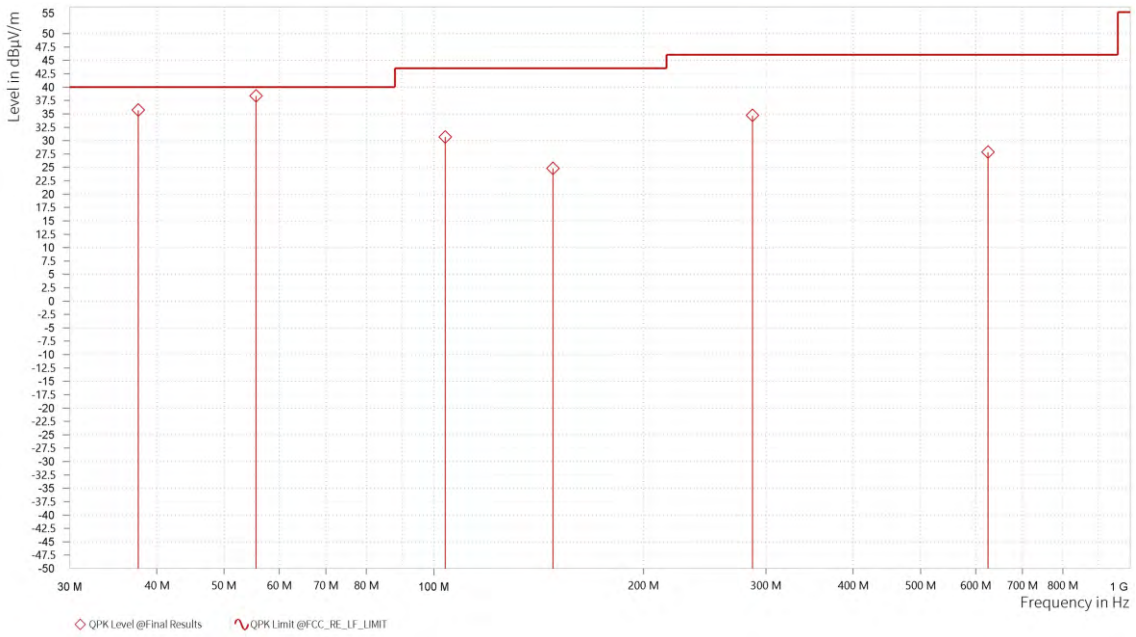
CHANNEL	Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	37.628	35.67	40.00	4.33	-11.74	V	295.8	1	120.000
1	55.573	38.36	40.00	1.64	-10.88	V	148.7	1	120.000
1	103.852	30.66	43.50	12.84	-12.03	V	71.4	2	120.000
1	148.252	24.79	43.50	18.71	-15.45	V	0.9	2	120.000
1	286.874	34.69	46.00	11.31	-7.59	V	0.9	2	120.000
1	625.007	27.81	46.00	18.19	-3.07	V	71.4	2	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

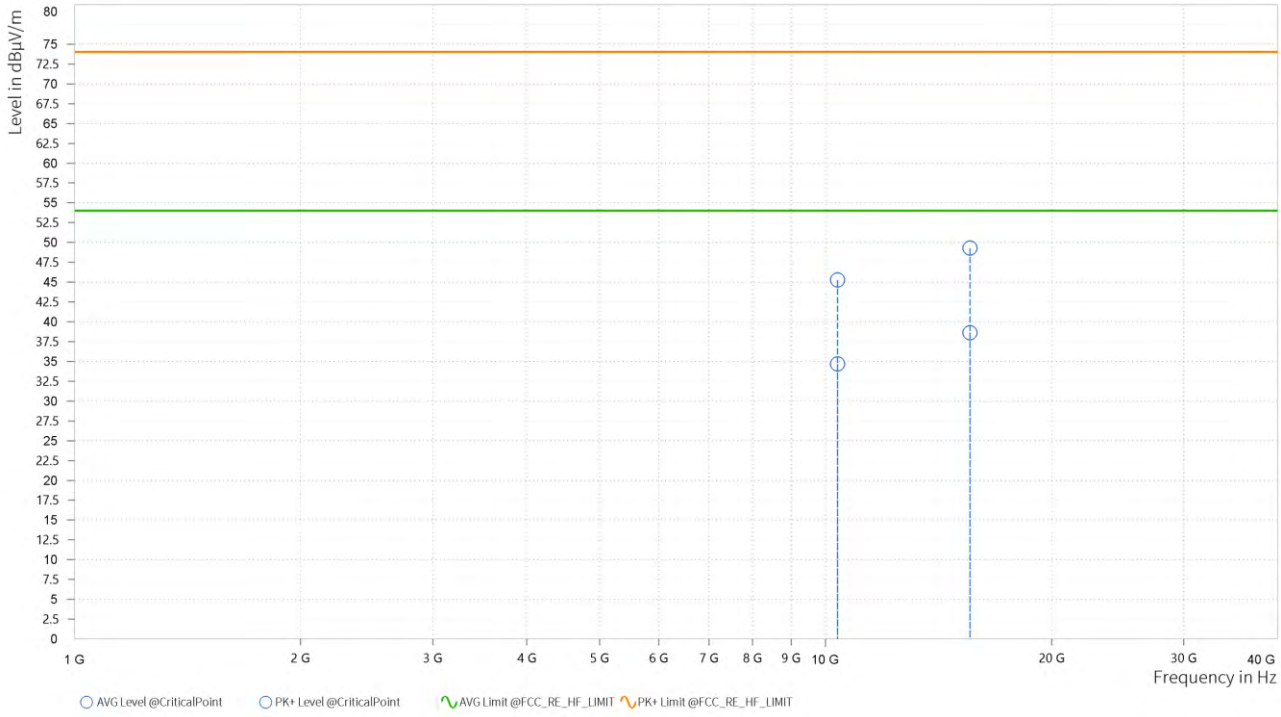


ABOVE 1GHz WORST-CASE DATA:

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

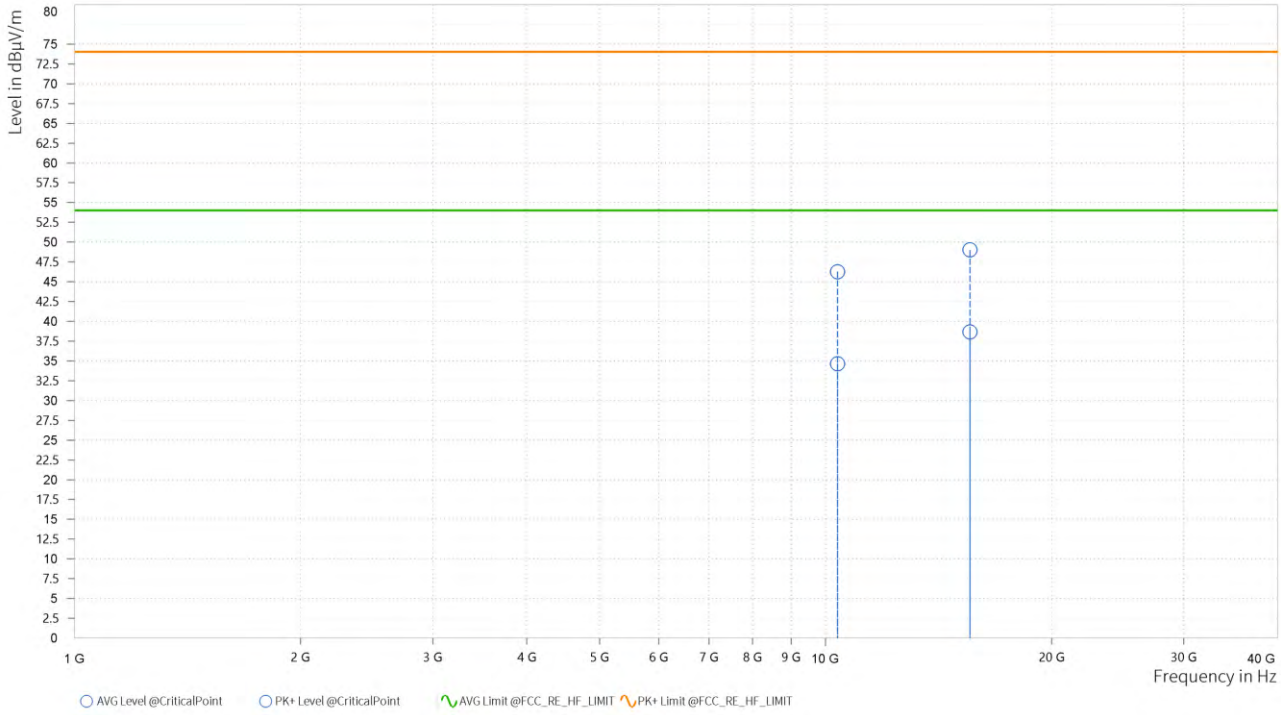
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	10,380.000	45.26	74.00	28.74	34.67	54.00	19.33	6.67	H	0.9	2
2	15,570.000	49.28	74.00	24.72	38.62	54.00	15.38	11.17	H	356.5	1



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	10,380.000	46.27	74.00	27.73	34.66	54.00	19.34	6.67	V	0.9	2
2	15,570.000	49.02	74.00	24.98	38.67	54.00	15.33	11.17	V	5.8	2



Band 2

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.73	54.8	74	-20.27	34.52	9.92	45.51	100	75	Peak
5150	48.99	50.06	54	-5.01	34.52	9.92	45.51	100	75	Average
5260	109.48	110.5	/	/	34.61	9.88	45.51	100	75	Peak
5260	102.06	103.08	/	/	34.61	9.88	45.51	100	75	Average
5350	54.11	55.09	74	-19.89	34.68	9.85	45.51	100	75	Peak
5350	48.23	49.21	54	-5.77	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.17	56.16	74	-18.83	34.6	9.92	45.51	100	180	Peak
5150	48.37	49.36	54	-5.63	34.6	9.92	45.51	100	180	Average
5260	102.54	103.57	/	/	34.6	9.88	45.51	100	180	Peak
5260	94.91	95.94	/	/	34.6	9.88	45.51	100	180	Average
5350	53.37	54.43	74	-20.63	34.6	9.85	45.51	100	180	Peak
5350	47.89	48.95	54	-6.11	34.6	9.85	45.51	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.86	54.93	74	-20.14	34.52	9.92	45.51	100	75	Peak
5150	48.99	50.06	54	-5.01	34.52	9.92	45.51	100	75	Average
5300	107.71	108.71	/	/	34.64	9.87	45.51	100	75	Peak
5300	100.63	101.63	/	/	34.64	9.87	45.51	100	75	Average
5350	53.89	54.87	74	-20.11	34.68	9.85	45.51	100	75	Peak
5350	49.42	50.4	54	-4.58	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.97	54.96	74	-20.03	34.6	9.92	45.51	100	175	Peak
5150	48.35	49.34	54	-5.65	34.6	9.92	45.51	100	175	Average
5300	100.17	101.21	/	/	34.6	9.87	45.51	100	175	Peak
5300	92.95	93.99	/	/	34.6	9.87	45.51	100	175	Average
5350	54.87	55.93	74	-19.13	34.6	9.85	45.51	100	175	Peak
5350	48.91	49.97	54	-5.09	34.6	9.85	45.51	100	175	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.65	54.72	74	-20.35	34.52	9.92	45.51	100	75	Peak
5150	47.58	48.65	54	-6.42	34.52	9.92	45.51	100	75	Average
5320	105.16	106.15	/	/	34.66	9.86	45.51	100	75	Peak
5320	98.2	99.19	/	/	34.66	9.86	45.51	100	75	Average
5350	54.18	55.16	74	-19.82	34.68	9.85	45.51	100	75	Peak
5350	49.2	50.18	54	-4.8	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.37	54.36	74	-20.63	34.6	9.92	45.51	100	177	Peak
5150	48.25	49.24	54	-5.75	34.6	9.92	45.51	100	177	Average
5320	100.12	101.17	/	/	34.6	9.86	45.51	100	177	Peak
5320	93.06	94.11	/	/	34.6	9.86	45.51	100	177	Average
5350	53.1	54.16	74	-20.9	34.6	9.85	45.51	100	177	Peak
5350	48.74	49.8	54	-5.26	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (20MHz)

CHANNEL	TX Channel 52	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.07	57.14	74	-17.93	34.52	9.92	45.51	100	75	Peak
5150	48.32	49.39	54	-5.68	34.52	9.92	45.51	100	75	Average
5260	107.64	108.66	/	/	34.61	9.88	45.51	100	75	Peak
5260	100.7	101.72	/	/	34.61	9.88	45.51	100	75	Average
5350	56.38	57.36	74	-17.62	34.68	9.85	45.51	100	75	Peak
5350	47.78	48.76	54	-6.22	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.64	55.63	74	-19.36	34.6	9.92	45.51	100	177	Peak
5150	48.62	49.61	54	-5.38	34.6	9.92	45.51	100	177	Average
5260	102.07	103.1	/	/	34.6	9.88	45.51	100	177	Peak
5260	96.01	97.04	/	/	34.6	9.88	45.51	100	177	Average
5350	54.38	55.44	74	-19.62	34.6	9.85	45.51	100	177	Peak
5350	47.81	48.87	54	-6.19	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.8	55.87	74	-19.2	34.52	9.92	45.51	100	75	Peak
5150	48.35	49.42	54	-5.65	34.52	9.92	45.51	100	75	Average
5300	106.54	107.54	/	/	34.64	9.87	45.51	100	75	Peak
5300	99.81	100.81	/	/	34.64	9.87	45.51	100	75	Average
5350	53.62	54.6	74	-20.38	34.68	9.85	45.51	100	75	Peak
5350	48.46	49.44	54	-5.54	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.39	54.38	74	-20.61	34.6	9.92	45.51	100	177	Peak
5150	47.86	48.85	54	-6.14	34.6	9.92	45.51	100	177	Average
5300	101.15	102.19	/	/	34.6	9.87	45.51	100	177	Peak
5300	94.32	95.36	/	/	34.6	9.87	45.51	100	177	Average
5350	54.28	55.34	74	-19.72	34.6	9.85	45.51	100	177	Peak
5350	47.85	48.91	54	-6.15	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.2	55.27	74	-19.8	34.52	9.92	45.51	100	75	Peak
5150	49.02	50.09	54	-4.98	34.52	9.92	45.51	100	75	Average
5320	104.14	105.13	/	/	34.66	9.86	45.51	100	75	Peak
5320	97.96	98.95	/	/	34.66	9.86	45.51	100	75	Average
5350	55.26	56.24	74	-18.74	34.68	9.85	45.51	100	75	Peak
5350	48.88	49.86	54	-5.12	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.29	54.28	74	-20.71	34.6	9.92	45.51	100	177	Peak
5150	47.99	48.98	54	-6.01	34.6	9.92	45.51	100	177	Average
5320	100.47	101.52	/	/	34.6	9.86	45.51	100	177	Peak
5320	93.95	95	/	/	34.6	9.86	45.51	100	177	Average
5350	53.25	54.31	74	-20.75	34.6	9.85	45.51	100	177	Peak
5350	47.99	49.05	54	-6.01	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (40MHz)

CHANNEL	TX Channel 54	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.95	54.02	74	-21.05	34.52	9.92	45.51	100	75	Peak
5150	48.99	50.06	54	-5.01	34.52	9.92	45.51	100	75	Average
5270	103.5	104.51	/	/	34.62	9.88	45.51	100	75	Peak
5270	97.95	98.96	/	/	34.62	9.88	45.51	100	75	Average
5350	53.57	54.55	74	-20.43	34.68	9.85	45.51	100	75	Peak
5350	48.42	49.4	54	-5.58	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.49	54.48	74	-20.51	34.6	9.92	45.51	100	177	Peak
5150	48.06	49.05	54	-5.94	34.6	9.92	45.51	100	177	Average
5270	95.7	96.73	/	/	34.6	9.88	45.51	100	177	Peak
5270	90.77	91.8	/	/	34.6	9.88	45.51	100	177	Average
5350	53.28	54.34	74	-20.72	34.6	9.85	45.51	100	177	Peak
5350	47.87	48.93	54	-6.13	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.25	54.32	74	-20.75	34.52	9.92	45.51	100	75	Peak
5150	48.48	49.55	54	-5.52	34.52	9.92	45.51	100	75	Average
5310	98.45	99.45	/	/	34.65	9.86	45.51	100	75	Peak
5310	93.41	94.41	/	/	34.65	9.86	45.51	100	75	Average
5350	53.86	54.84	74	-20.14	34.68	9.85	45.51	100	75	Peak
5350	50.6	51.58	54	-3.4	34.68	9.85	45.51	100	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.06	54.05	74	-20.94	34.6	9.92	45.51	100	177	Peak
5150	47.92	48.91	54	-6.08	34.6	9.92	45.51	100	177	Average
5310	93.16	94.21	/	/	34.6	9.86	45.51	100	177	Peak
5310	88.65	89.7	/	/	34.6	9.86	45.51	100	177	Average
5350	52.92	53.98	74	-21.08	34.6	9.85	45.51	100	177	Peak
5350	48.03	49.09	54	-5.97	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (20MHz)

CHANNEL	TX Channel 52	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.22	54.29	74	-20.78	34.52	9.92	45.51	100	310	Peak
5150	48.65	49.72	54	-5.35	34.52	9.92	45.51	100	310	Average
5260	107.54	108.56	/	/	34.61	9.88	45.51	100	310	Peak
5260	100.35	101.37	/	/	34.61	9.88	45.51	100	310	Average
5350	53.27	54.25	74	-20.73	34.68	9.85	45.51	100	310	Peak
5350	48.18	49.16	54	-5.82	34.68	9.85	45.51	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.79	54.78	74	-20.21	34.6	9.92	45.51	118	180	Peak
5150	48.77	49.76	54	-5.23	34.6	9.92	45.51	118	180	Average
5260	102.5	103.53	/	/	34.6	9.88	45.51	118	180	Peak
5260	93.97	95	/	/	34.6	9.88	45.51	118	180	Average
5350	53.72	54.78	74	-20.28	34.6	9.85	45.51	118	180	Peak
5350	47.49	48.55	54	-6.51	34.6	9.85	45.51	118	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.25	54.32	74	-20.75	34.52	9.92	45.51	100	310	Peak
5150	48.09	49.16	54	-5.91	34.52	9.92	45.51	100	310	Average
5300	106.09	107.09	/	/	34.64	9.87	45.51	100	310	Peak
5300	99.48	100.48	/	/	34.64	9.87	45.51	100	310	Average
5350	55.49	56.47	74	-18.51	34.68	9.85	45.51	100	310	Peak
5350	49.26	50.24	54	-4.74	34.68	9.85	45.51	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.06	54.05	74	-20.94	34.6	9.92	45.51	100	177	Peak
5150	48.13	49.12	54	-5.87	34.6	9.92	45.51	100	177	Average
5300	101.06	102.1	/	/	34.6	9.87	45.51	100	177	Peak
5300	94.81	95.85	/	/	34.6	9.87	45.51	100	177	Average
5350	54.86	55.92	74	-19.14	34.6	9.85	45.51	100	177	Peak
5350	47.6	48.66	54	-6.4	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.13	55.2	74	-19.87	34.52	9.92	45.51	100	310	Peak
5150	47.81	48.88	54	-6.19	34.52	9.92	45.51	100	310	Average
5320	103.74	104.73	/	/	34.66	9.86	45.51	100	310	Peak
5320	97.18	98.17	/	/	34.66	9.86	45.51	100	310	Average
5350	55.77	56.75	74	-18.23	34.68	9.85	45.51	100	310	Peak
5350	49.07	50.05	54	-4.93	34.68	9.85	45.51	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.58	55.57	74	-19.42	34.6	9.92	45.51	110	177	Peak
5150	48.13	49.12	54	-5.87	34.6	9.92	45.51	110	177	Average
5320	98.3	99.35	/	/	34.6	9.86	45.51	110	177	Peak
5320	92.18	93.23	/	/	34.6	9.86	45.51	110	177	Average
5350	53.78	54.84	74	-20.22	34.6	9.85	45.51	110	177	Peak
5350	47.84	48.9	54	-6.16	34.6	9.85	45.51	110	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11ac (40MHz)

CHANNEL	TX Channel 54	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.32	54.39	74	-20.68	34.52	9.92	45.51	100	310	Peak
5150	49.25	50.32	54	-4.75	34.52	9.92	45.51	100	310	Average
5270	100.62	101.63	/	/	34.62	9.88	45.51	100	310	Peak
5270	96.35	97.36	/	/	34.62	9.88	45.51	100	310	Average
5350	53.27	54.25	74	-20.73	34.68	9.85	45.51	100	310	Peak
5350	48.84	49.82	54	-5.16	34.68	9.85	45.51	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.18	53.17	74	-21.82	34.6	9.92	45.51	100	177	Peak
5150	48.11	49.1	54	-5.89	34.6	9.92	45.51	100	177	Average
5270	94.58	95.61	/	/	34.6	9.88	45.51	100	177	Peak
5270	89.31	90.34	/	/	34.6	9.88	45.51	100	177	Average
5350	53.52	54.58	74	-20.48	34.6	9.85	45.51	100	177	Peak
5350	48.47	49.53	54	-5.53	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.96	54.03	74	-21.04	34.52	9.92	45.51	100	310	Peak
5150	48.96	50.03	54	-5.04	34.52	9.92	45.51	100	310	Average
5310	97.22	98.22	/	/	34.65	9.86	45.51	100	310	Peak
5310	92.6	93.6	/	/	34.65	9.86	45.51	100	310	Average
5350	53.37	54.35	74	-20.63	34.68	9.85	45.51	100	310	Peak
5350	48.6	49.58	54	-5.4	34.68	9.85	45.51	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.62	53.61	74	-21.38	34.6	9.92	45.51	100	177	Peak
5150	48.8	49.79	54	-5.2	34.6	9.92	45.51	100	177	Average
5310	91.96	93.01	/	/	34.6	9.86	45.51	100	177	Peak
5310	86.96	88.01	/	/	34.6	9.86	45.51	100	177	Average
5350	54.62	55.68	74	-19.38	34.6	9.85	45.51	100	177	Peak
5350	48.03	49.09	54	-5.97	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (80MHz)

CHANNEL	TX Channel 58	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.1	54.17	74	-20.9	34.52	9.92	45.51	100	310	Peak
5150	49.23	50.3	54	-4.77	34.52	9.92	45.51	100	310	Average
5290	94.46	95.47	/	/	34.63	9.87	45.51	100	310	Peak
5290	89.41	90.42	/	/	34.63	9.87	45.51	100	310	Average
5350	57.12	58.1	74	-16.88	34.68	9.85	45.51	100	310	Peak
5350	53.27	54.25	54	-0.73	34.68	9.85	45.51	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.73	54.72	74	-20.27	34.6	9.92	45.51	100	177	Peak
5150	48.45	49.44	54	-5.55	34.6	9.92	45.51	100	177	Average
5290	88.81	89.85	/	/	34.6	9.87	45.51	100	177	Peak
5290	83.53	84.57	/	/	34.6	9.87	45.51	100	177	Average
5350	53.45	54.51	74	-20.55	34.6	9.85	45.51	100	177	Peak
5350	50.21	51.27	54	-3.79	34.6	9.85	45.51	100	177	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.

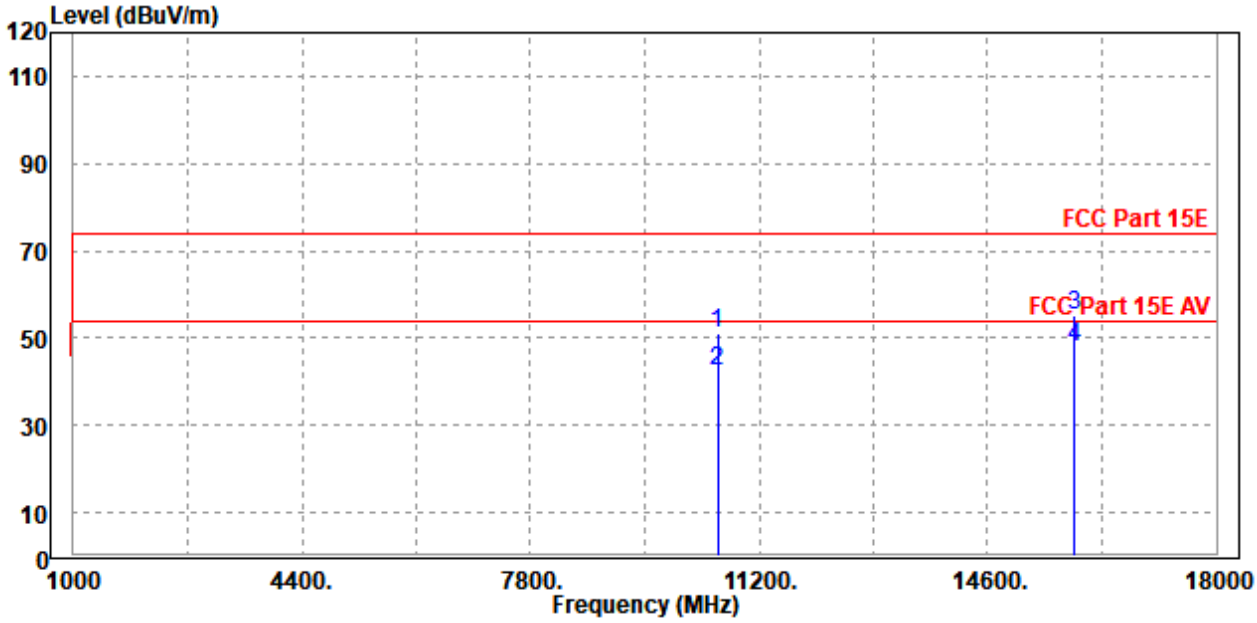
802.11ac (80MHz)

Worst case harmonic:

CHANNEL	TX Channel 58	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

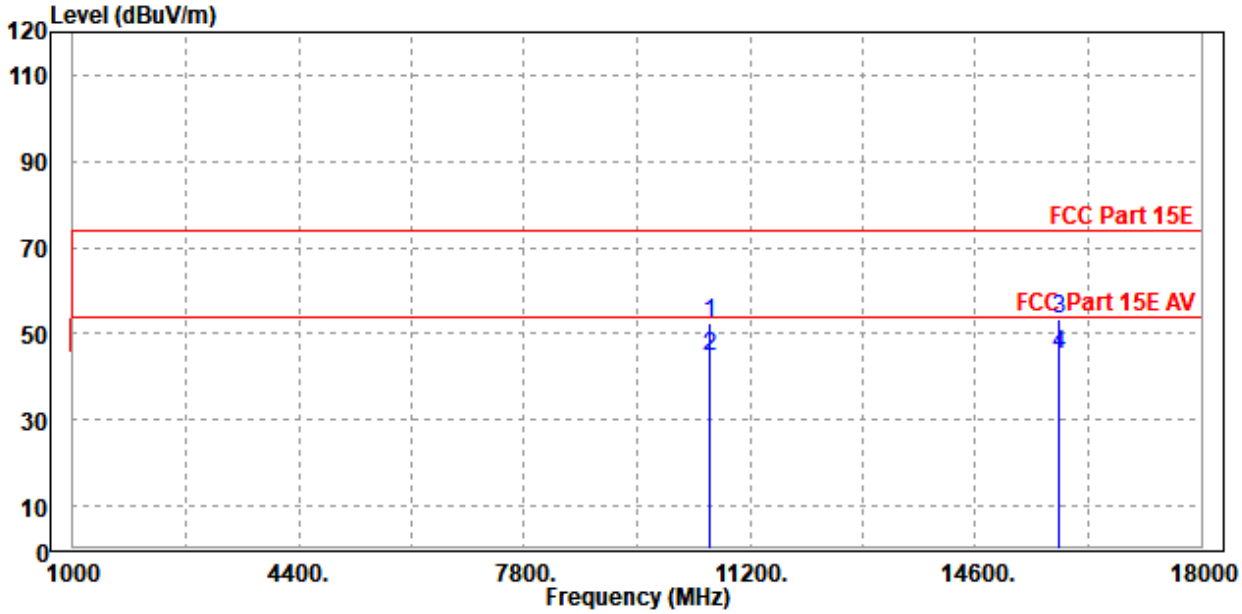
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10580.000	51.07	44.13	74.00	-22.93	6.94	Peak	Horizontal
2	10580.000	42.55	35.61	54.00	-11.45	6.94	Average	Horizontal
3	PK15875.000	55.26	41.20	74.00	-18.74	14.06	Peak	Horizontal
4	PP15875.000	47.73	33.67	54.00	-6.27	14.06	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10588.000	52.51	44.35	74.00	-21.49	8.16	Peak	Vertical
2	10588.000	44.51	36.35	54.00	-9.49	8.16	Average	Vertical
3	PK15870.000	53.41	40.78	74.00	-20.59	12.63	Peak	Vertical
4	PP15870.000	45.19	32.56	54.00	-8.81	12.63	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 3

802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.03	54.96	74	-19.97	34.77	9.81	45.51	100	305	Peak
5460	46.95	47.88	54	-7.05	34.77	9.81	45.51	100	305	Average
5470	54.14	55.06	/	/	34.78	9.81	45.51	100	305	Peak
5500	102.3	103.2	74	28.3	34.8	9.8	45.5	100	305	Peak
5500	96.47	97.37	54	42.47	34.8	9.8	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.09	54.19	74	-20.91	34.6	9.81	45.51	100	180	Peak
5460	47.62	48.72	54	-6.38	34.6	9.81	45.51	100	180	Average
5470	53.53	54.63	/	/	34.6	9.81	45.51	100	180	Peak
5500	96.27	97.37	74	22.27	34.6	9.8	45.5	100	180	Peak
5500	90.47	91.57	54	36.47	34.6	9.8	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.13	55.06	74	-19.87	34.77	9.81	45.51	100	305	Peak
5460	47.84	48.77	54	-6.16	34.77	9.81	45.51	100	305	Average
5470	53.34	54.26	/	/	34.78	9.81	45.51	100	305	Peak
5580	109.08	109.85	74	35.08	34.9	9.83	45.5	100	305	Peak
5580	103.52	104.29	54	49.52	34.9	9.83	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.94	55.04	74	-20.06	34.6	9.81	45.51	100	180	Peak
5460	46.66	47.76	54	-7.34	34.6	9.81	45.51	100	180	Average
5470	53.51	54.61	/	/	34.6	9.81	45.51	100	180	Peak
5580	102.67	103.64	74	28.67	34.7	9.83	45.5	100	180	Peak
5580	97.1	98.07	54	43.1	34.7	9.83	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5700	101.51	102.1	/	/	35.04	9.87	45.5	100	312	Peak
5700	95.54	96.13	/	/	35.04	9.87	45.5	100	312	Average
5725	55.05	55.6	68.2	-13.15	35.07	9.88	45.5	100	312	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5700	95.93	96.72	/	/	34.84	9.87	45.5	100	355	Peak
5700	89.92	90.71	/	/	34.84	9.87	45.5	100	355	Average
5725	53.23	53.98	68.2	-14.97	34.87	9.88	45.5	100	355	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	52.85	53.77	68.2	-15.35	34.78	9.81	45.51	100	75	Peak
5720	106.45	107.02	/	/	35.06	9.87	45.5	100	75	Peak
5720	100.29	100.86	/	/	35.06	9.87	45.5	100	75	Average
5850	53.88	54.24	68.2	-14.32	35.22	9.92	45.5	100	75	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	54	55.1	68.2	-14.2	34.6	9.81	45.51	100	0	Peak
5720	101.83	102.6	/	/	34.86	9.87	45.5	100	0	Peak
5720	96.36	97.13	/	/	34.86	9.87	45.5	100	0	Average
5850	55.26	55.82	68.2	-12.94	35.02	9.92	45.5	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (20MHz)

CHANNEL	TX Channel 100	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.21	54.14	74	-20.79	34.77	9.81	45.51	100	305	Peak
5460	47.33	48.26	54	-6.67	34.77	9.81	45.51	100	305	Average
5470	56.98	57.9	/	/	34.78	9.81	45.51	100	305	Peak
5500	103.14	104.04	74	29.14	34.8	9.8	45.5	100	305	Peak
5500	97.07	97.97	54	43.07	34.8	9.8	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.36	54.46	74	-20.64	34.6	9.81	45.51	100	180	Peak
5460	47.29	48.39	54	-6.71	34.6	9.81	45.51	100	180	Average
5470	55.24	56.34	/	/	34.6	9.81	45.51	100	180	Peak
5500	96.49	97.59	74	22.49	34.6	9.8	45.5	100	180	Peak
5500	90.91	92.01	54	36.91	34.6	9.8	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.59	55.52	74	-19.41	34.77	9.81	45.51	100	305	Peak
5460	48	48.93	54	-6	34.77	9.81	45.51	100	305	Average
5470	56.06	56.98	/	/	34.78	9.81	45.51	100	305	Peak
5580	109.25	110.02	74	35.25	34.9	9.83	45.5	100	305	Peak
5580	103.19	103.96	54	49.19	34.9	9.83	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.61	54.71	74	-20.39	34.6	9.81	45.51	100	180	Peak
5460	47.11	48.21	54	-6.89	34.6	9.81	45.51	100	180	Average
5470	54.38	55.48	/	/	34.6	9.81	45.51	100	180	Peak
5580	102.72	103.69	74	28.72	34.7	9.83	45.5	100	180	Peak
5580	96.96	97.93	54	42.96	34.7	9.83	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5700	102.25	102.84	/	/	35.04	9.87	45.5	100	312	Peak
5700	95.69	96.28	/	/	35.04	9.87	45.5	100	312	Average
5725	54.48	55.03	68.2	-13.72	35.07	9.88	45.5	100	312	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5700	96.62	97.41	/	/	34.84	9.87	45.5	100	355	Peak
5700	91.44	92.23	/	/	34.84	9.87	45.5	100	355	Average
5725	53.23	53.98	68.2	-14.97	34.87	9.88	45.5	100	355	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.97	54.89	68.2	-14.23	34.78	9.81	45.51	100	312	Peak
5720	106.55	107.12	/	/	35.06	9.87	45.5	100	312	Peak
5720	100.76	101.33	/	/	35.06	9.87	45.5	100	312	Average
5850	55.2	55.56	68.2	-13	35.22	9.92	45.5	100	312	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.28	54.38	68.2	-14.92	34.6	9.81	45.51	100	360	Average
5720	101.13	101.9	/	/	34.86	9.87	45.5	100	360	Peak
5720	95.73	96.5	/	/	34.86	9.87	45.5	100	360	Average
5850	54.72	55.28	68.2	-13.48	35.02	9.92	45.5	100	360	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.55	54.48	74	-20.45	34.77	9.81	45.51	100	305	Peak
5460	48.21	49.14	54	-5.79	34.77	9.81	45.51	100	305	Average
5470	52.6	53.52	/	/	34.78	9.81	45.51	100	305	Peak
5510	97.09	97.98	74	23.09	34.81	9.8	45.5	100	305	Peak
5510	93.43	94.32	54	39.43	34.81	9.8	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.58	53.68	74	-21.42	34.6	9.81	45.51	100	180	Peak
5460	47.42	48.52	54	-6.58	34.6	9.81	45.51	100	180	Average
5470	52.05	53.15	/	/	34.6	9.81	45.51	100	180	Peak
5510	91.19	92.28	74	17.19	34.61	9.8	45.5	100	180	Peak
5510	87.32	88.41	54	33.32	34.61	9.8	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 110	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	52.88	53.81	74	-21.12	34.77	9.81	45.51	100	305	Peak
5460	48.2	49.13	54	-5.8	34.77	9.81	45.51	100	305	Average
5470	53.38	54.3	/	/	34.78	9.81	45.51	100	305	Peak
5550	101.91	102.73	74	27.91	34.86	9.82	45.5	100	305	Peak
5550	98.07	98.89	54	44.07	34.86	9.82	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	52.42	53.52	74	-21.58	34.6	9.81	45.51	100	180	Peak
5460	47.53	48.63	54	-6.47	34.6	9.81	45.51	100	180	Average
5470	53.91	55.01	/	/	34.6	9.81	45.51	100	180	Peak
5550	95.22	96.24	74	21.22	34.66	9.82	45.5	100	180	Peak
5550	91.44	92.46	54	37.44	34.66	9.82	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 134	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5670	99.3	99.94	/	/	35	9.86	45.5	100	312	Peak
5670	95.18	95.82	/	/	35	9.86	45.5	100	312	Average
5725	52.6	53.15	68.2	-15.6	35.07	9.88	45.5	100	312	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5670	93.63	94.47	/	/	34.8	9.86	45.5	100	0	Peak
5670	89.53	90.37	/	/	34.8	9.86	45.5	100	0	Average
5725	52.65	53.4	68.2	-15.55	34.87	9.88	45.5	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 142	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	53.81	54.73	68.2	-14.39	34.78	9.81	45.51	100	312	Peak
5710	100.11	100.69	/	/	35.05	9.87	45.5	100	312	Peak
5710	96.22	96.8	/	/	35.05	9.87	45.5	100	312	Average
5850	52.5	52.86	68.2	-15.7	35.22	9.92	45.5	100	312	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	52.07	53.17	68.2	-16.13	34.6	9.81	45.51	100	0	Peak
5710	94.45	95.23	/	/	34.85	9.87	45.5	100	0	Peak
5710	90.24	91.02	/	/	34.85	9.87	45.5	100	0	Average
5850	51.55	52.11	68.2	-16.65	35.02	9.92	45.5	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (20MHz)

CHANNEL	TX Channel 100	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.85	53.78	74	-21.15	34.77	9.81	45.51	100	305	Peak
5460	47.61	48.54	54	-6.39	34.77	9.81	45.51	100	305	Average
5470	55.27	56.19	/	/	34.78	9.81	45.51	100	305	Peak
5500	102.33	103.23	74	28.33	34.8	9.8	45.5	100	305	Peak
5500	95.51	96.41	54	41.51	34.8	9.8	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.49	54.59	74	-20.51	34.6	9.81	45.51	100	180	Peak
5460	47.23	48.33	54	-6.77	34.6	9.81	45.51	100	180	Average
5470	54.41	55.51	/	/	34.6	9.81	45.51	100	180	Peak
5500	95.93	97.03	74	21.93	34.6	9.8	45.5	100	180	Peak
5500	89.75	90.85	54	35.75	34.6	9.8	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	55.52	56.45	74	-18.48	34.77	9.81	45.51	100	305	Peak
5460	47.09	48.02	54	-6.91	34.77	9.81	45.51	100	305	Average
5470	53.51	54.43	/	/	34.78	9.81	45.51	100	305	Peak
5580	108.19	108.96	74	34.19	34.9	9.83	45.5	100	305	Peak
5580	101.49	102.26	54	47.49	34.9	9.83	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	54.25	55.35	74	-19.75	34.6	9.81	45.51	100	180	Peak
5460	47.05	48.15	54	-6.95	34.6	9.81	45.51	100	180	Average
5470	52.33	53.43	/	/	34.6	9.81	45.51	100	180	Peak
5580	102.12	103.09	74	28.12	34.7	9.83	45.5	100	180	Peak
5580	96.11	97.08	54	42.11	34.7	9.83	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5700	100.91	101.5	/	/	35.04	9.87	45.5	100	312	Peak
5700	94.51	95.1	/	/	35.04	9.87	45.5	100	312	Average
5725	54.27	54.82	68.2	-13.93	35.07	9.88	45.5	100	312	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5700	95.54	96.33	/	/	34.84	9.87	45.5	100	0	Peak
5700	89.61	90.4	/	/	34.84	9.87	45.5	100	0	Average
5725	52.38	53.13	68.2	-15.82	34.87	9.88	45.5	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.83	55.75	68.2	-13.37	34.78	9.81	45.51	100	312	Peak
5720	105.82	106.39	/	/	35.06	9.87	45.5	100	312	Peak
5720	99.5	100.07	/	/	35.06	9.87	45.5	100	312	Average
5850	55.78	56.14	68.2	-12.42	35.22	9.92	45.5	100	312	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.14	53.24	68.2	-16.06	34.6	9.81	45.51	100	360	Peak
5720	99.98	100.75	/	/	34.86	9.87	45.5	100	360	Peak
5720	94.09	94.86	/	/	34.86	9.87	45.5	100	360	Average
5850	53.11	53.67	68.2	-15.09	35.02	9.92	45.5	100	360	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.21	52.14	74	-22.79	34.77	9.81	45.51	100	305	Peak
5460	48.33	49.26	54	-5.67	34.77	9.81	45.51	100	305	Average
5470	52.36	53.28	/	/	34.78	9.81	45.51	100	305	Peak
5510	96.14	97.03	74	22.14	34.81	9.8	45.5	100	305	Peak
5510	92.42	93.31	54	38.42	34.81	9.8	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.65	53.75	74	-21.35	34.6	9.81	45.51	100	180	Peak
5460	47.45	48.55	54	-6.55	34.6	9.81	45.51	100	180	Average
5470	52.67	53.77	/	/	34.6	9.81	45.51	100	180	Peak
5510	89.89	90.98	74	15.89	34.61	9.8	45.5	100	180	Peak
5510	85.67	86.76	54	31.67	34.61	9.8	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.23	54.16	74	-20.77	34.77	9.81	45.51	100	305	Peak
5460	47.5	48.43	54	-6.5	34.77	9.81	45.51	100	305	Average
5470	52.94	53.86	/	/	34.78	9.81	45.51	100	305	Peak
5550	100.19	101.01	74	26.19	34.86	9.82	45.5	100	305	Peak
5550	95.93	96.75	54	41.93	34.86	9.82	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.48	52.58	74	-22.52	34.6	9.81	45.51	100	180	Peak
5460	47.22	48.32	54	-6.78	34.6	9.81	45.51	100	180	Average
5470	52.34	53.44	/	/	34.6	9.81	45.51	100	180	Peak
5550	94.33	95.35	74	20.33	34.66	9.82	45.5	100	180	Peak
5550	89.98	91	54	35.98	34.66	9.82	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 134	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5670	98.44	99.08	/	/	35	9.86	45.5	100	312	Peak
5670	95.07	95.71	/	/	35	9.86	45.5	100	312	Average
5725	53.68	54.23	68.2	-14.52	35.07	9.88	45.5	100	312	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5670	93.4	94.24	/	/	34.8	9.86	45.5	100	0	Peak
5670	88.65	89.49	/	/	34.8	9.86	45.5	100	0	Average
5725	51.67	52.42	68.2	-16.53	34.87	9.88	45.5	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 142	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	51.38	52.3	68.2	-16.82	34.78	9.81	45.51	100	312	Peak
5710	99.23	99.81	/	/	35.05	9.87	45.5	100	312	Peak
5710	94.95	95.53	/	/	35.05	9.87	45.5	100	312	Average
5850	52.9	53.26	68.2	-15.3	35.22	9.92	45.5	100	312	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	50.92	52.02	68.2	-17.28	34.6	9.81	45.51	100	0	Peak
5710	94.04	94.82	/	/	34.85	9.87	45.5	100	0	Peak
5710	89.09	89.87	/	/	34.85	9.87	45.5	100	0	Average
5850	53.1	53.66	68.2	-15.1	35.02	9.92	45.5	100	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (80MHz)

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.53	53.46	74	-21.47	34.77	9.81	45.51	100	305	Peak
5460	48.58	49.51	54	-5.42	34.77	9.81	45.51	100	305	Average
5470	53.48	54.4	/	/	34.78	9.81	45.51	100	305	Peak
5530	91.78	92.63	74	17.78	34.84	9.81	45.5	100	305	Peak
5530	87.63	88.48	54	33.63	34.84	9.81	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.72	52.82	74	-22.28	34.6	9.81	45.51	100	180	Peak
5460	48.08	49.18	54	-5.92	34.6	9.81	45.51	100	180	Average
5470	52.41	53.51	/	/	34.6	9.81	45.51	100	180	Peak
5530	86.24	87.29	74	12.24	34.64	9.81	45.5	100	180	Peak
5530	81.93	82.98	54	27.93	34.64	9.81	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.44	53.37	74	-21.56	34.77	9.81	45.51	100	305	Peak
5460	49.1	50.03	54	-4.9	34.77	9.81	45.51	100	305	Average
5470	51.74	52.66	/	/	34.78	9.81	45.51	100	305	Peak
5610	96.55	97.28	74	22.55	34.93	9.84	45.5	100	305	Peak
5610	92.74	93.47	54	38.74	34.93	9.84	45.5	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.64	52.74	74	-22.36	34.6	9.81	45.51	100	180	Peak
5460	47.06	48.16	54	-6.94	34.6	9.81	45.51	100	180	Average
5470	51.43	52.53	/	/	34.6	9.81	45.51	100	180	Peak
5610	90.9	91.83	74	16.9	34.73	9.84	45.5	100	180	Peak
5610	86.42	87.35	54	32.42	34.73	9.84	45.5	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 138	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	52.57	53.49	68.2	-15.63	34.78	9.81	45.51	100	75	Peak
5690	95.13	95.74	/	/	35.03	9.86	45.5	100	75	Peak
5690	90.23	90.84	/	/	35.03	9.86	45.5	100	75	Average
5850	52.58	52.94	68.2	-15.62	35.22	9.92	45.5	100	75	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5470	51.87	52.97	68.2	-16.33	34.6	9.81	45.51	100	0	Peak
5690	90.76	91.57	/	/	34.83	9.86	45.5	100	0	Peak
5690	85.62	86.43	/	/	34.83	9.86	45.5	100	0	Average
5850	52.56	53.12	68.2	-15.64	35.02	9.92	45.5	100	0	Peak

REMARKS:

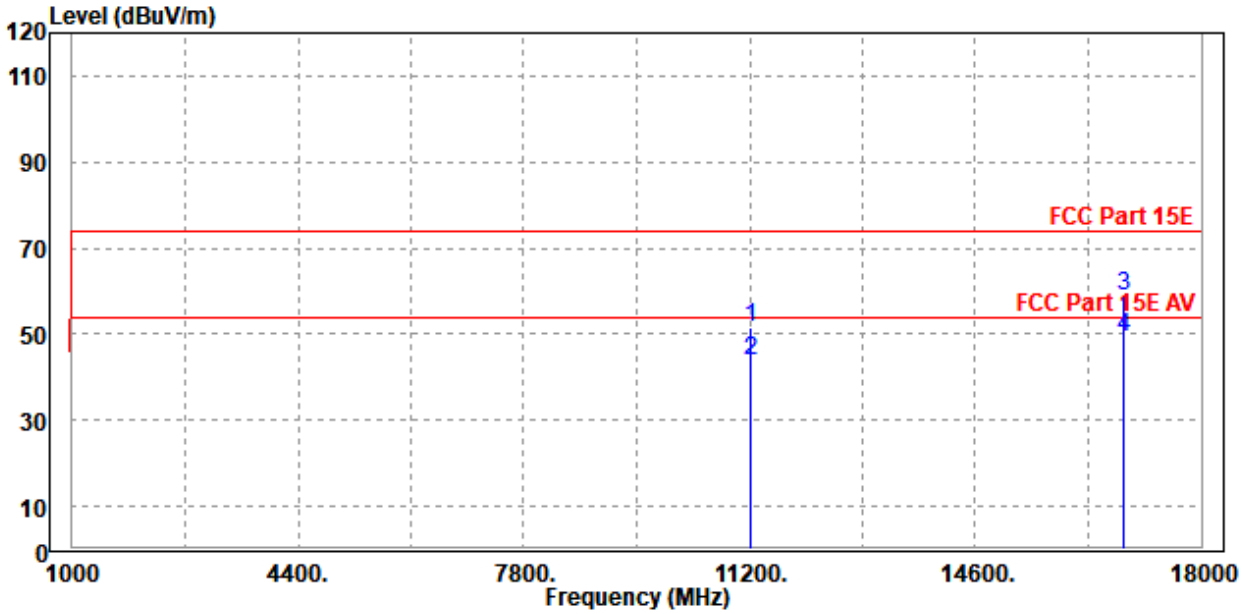
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (80MHz)
Worst case harmonic:

CHANNEL	TX Channel 122	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

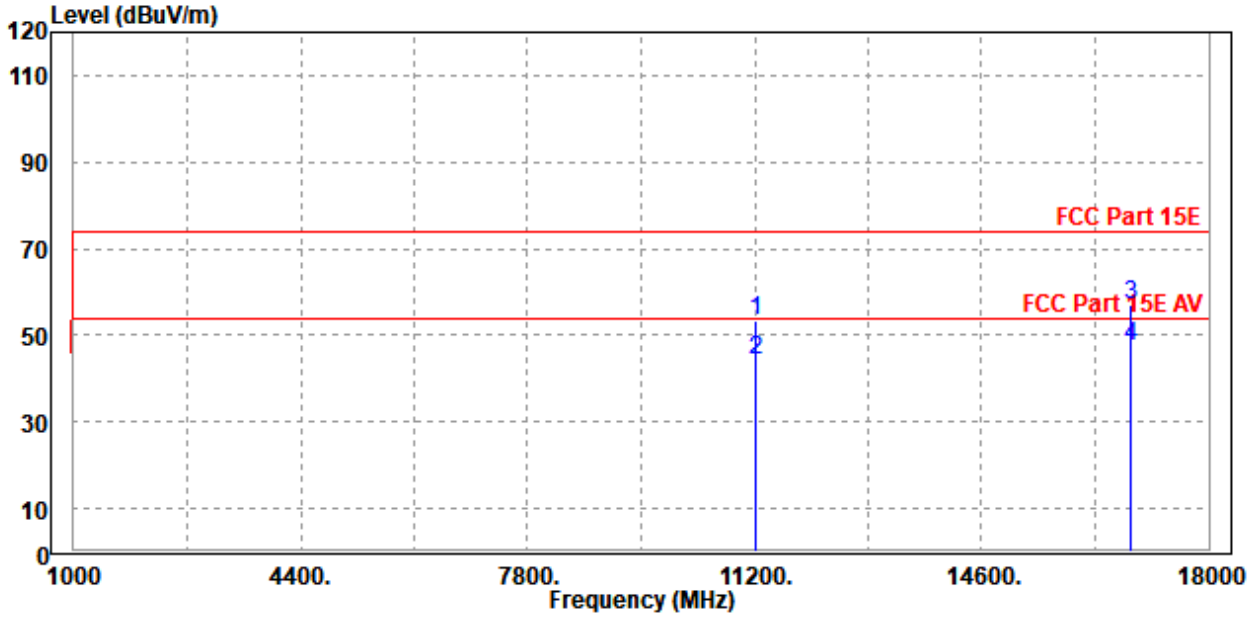
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11217.000	51.72	43.91	74.00	-22.28	7.81	Peak	Horizontal
2	11217.000	43.65	35.84	54.00	-10.35	7.81	Average	Horizontal
3	PK16830.000	59.07	41.86	74.00	-14.93	17.21	Peak	Horizontal
4	PP16830.000	49.48	32.27	54.00	-4.52	17.21	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11220.000	53.17	44.85	74.00	-20.83	8.32	Peak	Vertical
2	11220.000	44.18	35.86	54.00	-9.82	8.32	Average	Vertical
3	PK16827.000	57.15	41.79	74.00	-16.85	15.36	Peak	Vertical
4	PP16827.000	47.68	32.32	54.00	-6.32	15.36	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 4:

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	108.68	109.21	/	/	35.09	9.88	45.5	100	310	Peak
5745	102.5	103.03	/	/	35.09	9.88	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	102.94	103.67	/	/	34.89	9.88	45.5	100	23	Peak
5745	96.33	97.06	/	/	34.89	9.88	45.5	100	23	Average

REMARKS:

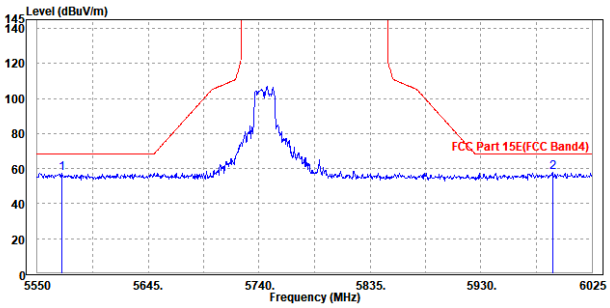
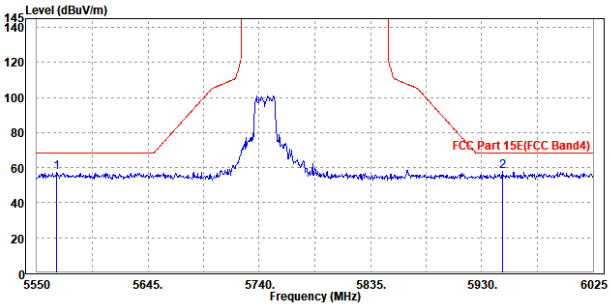
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5571.375	57.61	58.4	68.2	-10.59	34.89	9.82	45.5	100	0	Peak
5991.275	58.01	58.15	68.2	-10.19	35.39	9.97	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5567.1	57.28	58.28	68.2	-10.92	34.68	9.82	45.5	100	360	Peak
5947.575	57.88	58.29	68.2	-10.32	35.14	9.95	45.5	100	360	Peak

CH 149

Horizontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	108.05	108.51	/	/	35.14	9.9	45.5	100	310	Peak
5785	102.72	103.18	/	/	35.14	9.9	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	102.16	102.82	/	/	34.94	9.9	45.5	100	23	Peak
5785	95.89	96.55	/	/	34.94	9.9	45.5	100	23	Average

REMARKS:

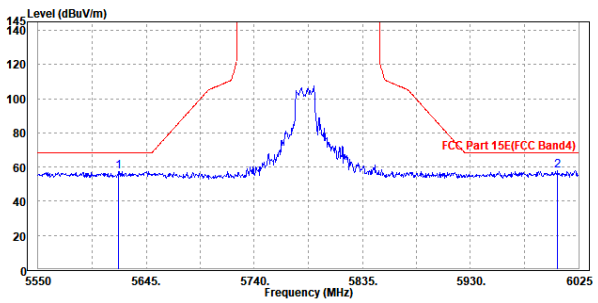
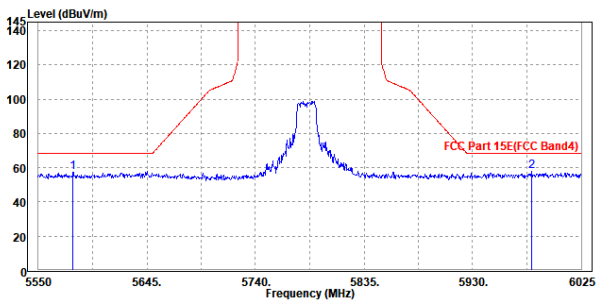
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5620.775	57.24	57.96	68.2	-10.96	34.94	9.84	45.5	100	360	Peak
6006.475	57.81	57.94	68.2	-10.39	35.4	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5580.4	57.43	58.4	68.2	-10.77	34.7	9.83	45.5	100	0	Peak
5981.3	58.01	58.37	68.2	-10.19	35.18	9.96	45.5	100	0	Peak

CH 157

Horizontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	109.11	109.51	/	/	35.19	9.91	45.5	100	310	Peak
5825	102.41	102.81	/	/	35.19	9.91	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	101.58	102.18	/	/	34.99	9.91	45.5	100	23	Peak
5825	95.43	96.03	/	/	34.99	9.91	45.5	100	23	Average

REMARKS:

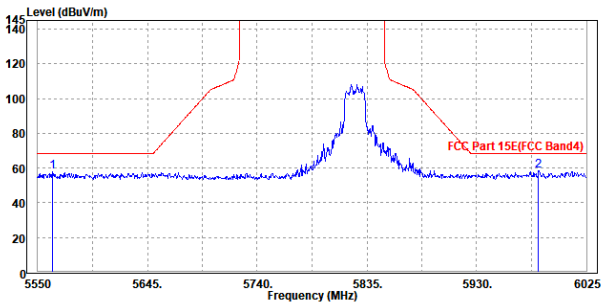
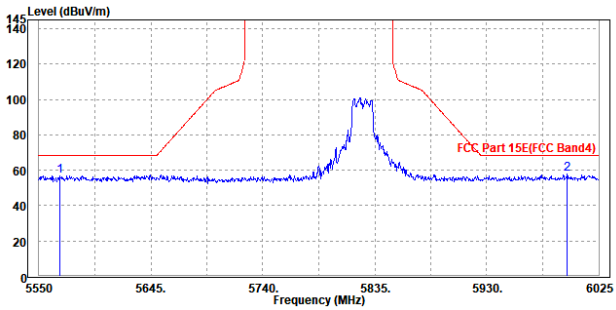
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5562.825	57.73	58.53	68.2	-10.47	34.88	9.82	45.5	100	0	Peak
5983.675	58.37	58.53	68.2	-9.83	35.38	9.96	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5567.575	57.06	58.06	68.2	-11.14	34.68	9.82	45.5	100	360	Peak
5998.4	57.8	58.13	68.2	-10.4	35.2	9.97	45.5	100	360	Peak

CH 165

Horizontal	Vertical
	

802.11n (20MHz)

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	107.76	108.22	/	/	35.14	9.9	45.5	100	310	Peak
5785	101.91	102.37	/	/	35.14	9.9	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	101.92	102.58	/	/	34.94	9.9	45.5	100	180	Peak
5785	95.94	96.6	/	/	34.94	9.9	45.5	100	180	Average

REMARKS:

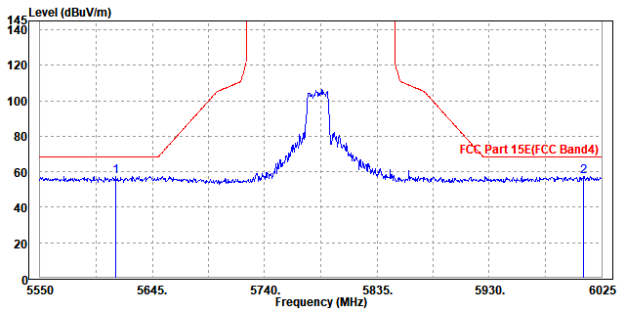
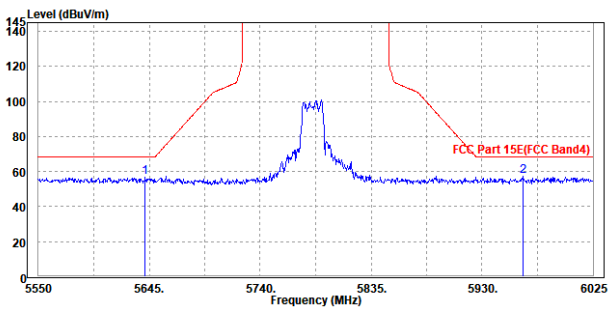
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5614.125	57.23	57.95	68.2	-10.97	34.94	9.84	45.5	100	0	Peak
6009.8	57.26	57.38	68.2	-10.94	35.4	9.98	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5641.675	56.98	57.86	68.2	-11.22	34.77	9.85	45.5	100	360	Peak
5965.15	57.41	57.79	68.2	-10.79	35.16	9.96	45.5	100	360	Peak

CH 149

Horizontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	107.76	108.22	/	/	35.14	9.9	45.5	100	310	Peak
5785	101.91	102.37	/	/	35.14	9.9	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	101.92	102.58	/	/	34.94	9.9	45.5	100	180	Peak
5785	95.94	96.6	/	/	34.94	9.9	45.5	100	180	Average

REMARKS:

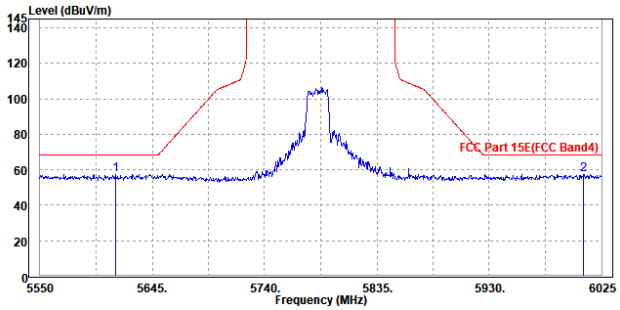
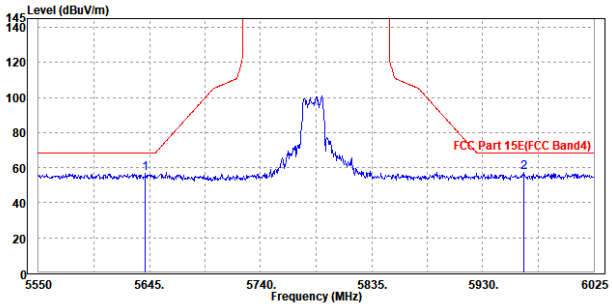
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5614.125	57.23	57.95	68.2	-10.97	34.94	9.84	45.5	100	0	Peak
6009.8	57.26	57.38	68.2	-10.94	35.4	9.98	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5641.675	56.98	57.86	68.2	-11.22	34.77	9.85	45.5	100	360	Peak
5965.15	57.41	57.79	68.2	-10.79	35.16	9.96	45.5	100	360	Peak

CH 157

Horizontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	108.26	108.66	/	/	35.19	9.91	45.5	100	310	Peak
5825	102.55	102.95	/	/	35.19	9.91	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	102.3	102.9	/	/	34.99	9.91	45.5	100	23	Peak
5825	95.23	95.83	/	/	34.99	9.91	45.5	100	23	Average

REMARKS:

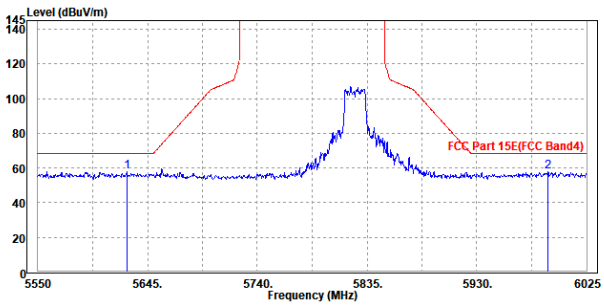
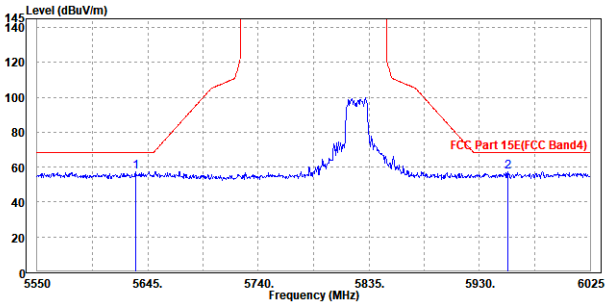
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5626.95	57.98	58.69	68.2	-10.22	34.95	9.84	45.5	100	360	Peak
5991.75	57.72	57.86	68.2	-10.48	35.39	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5634.55	57.29	58.18	68.2	-10.91	34.76	9.85	45.5	100	0	Peak
5954.7	57.54	57.94	68.2	-10.66	35.15	9.95	45.5	100	0	Peak

CH 165

Horizontal	Vertical
	

802.11n (40MHz)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	102.52	103.02	/	/	35.11	9.89	45.5	100	310	Peak
5755	98.58	99.08	/	/	35.11	9.89	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	93.95	94.65	/	/	34.91	9.89	45.5	100	23	Peak
5755	90.27	90.97	/	/	34.91	9.89	45.5	100	23	Average

REMARKS:

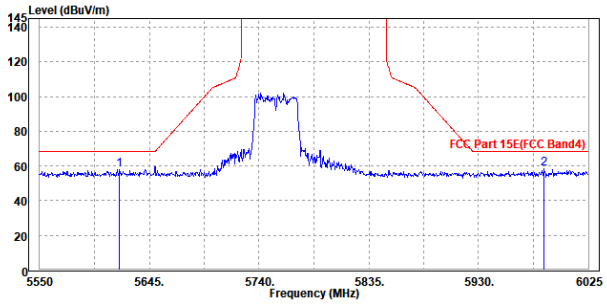
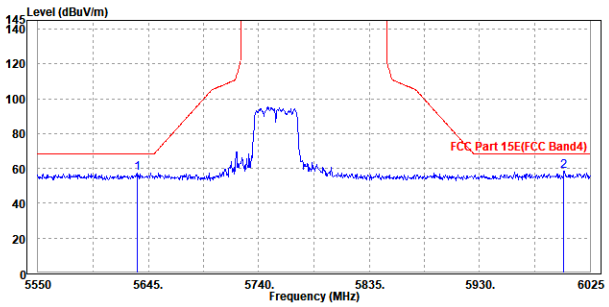
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

OOBE DATA

802.11n (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5619.35	57.89	58.61	68.2	-10.31	34.94	9.84	45.5	100	0	Peak
5986.525	58.45	58.6	68.2	-9.75	35.38	9.97	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5635.5	57.3	58.19	68.2	-10.9	34.76	9.85	45.5	100	360	Peak
6002.675	58.56	58.89	68.2	-9.64	35.2	9.97	45.5	100	360	Peak

CH 151

Horizontal	Vertical
	

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	102.27	102.72	/	/	35.15	9.9	45.5	100	310	Peak
5795	98.76	99.21	/	/	35.15	9.9	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	95.07	95.72	/	/	34.95	9.9	45.5	100	23	Peak
5795	90.09	90.74	/	/	34.95	9.9	45.5	100	23	Average

REMARKS:

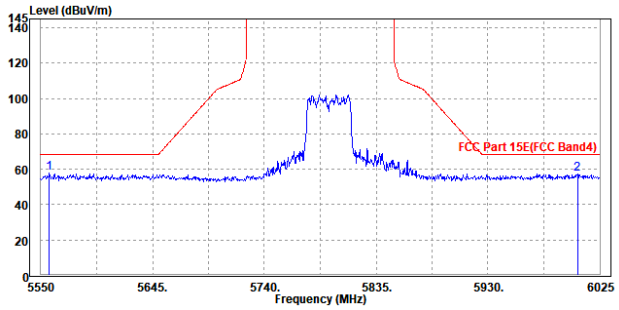
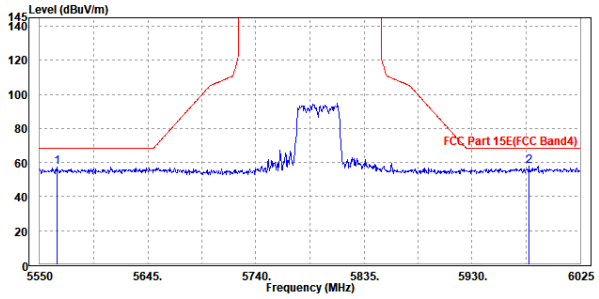
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

OOBE DATA

802.11n (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5557.125	58.1	58.91	68.2	-10.1	34.87	9.82	45.5	100	360	Peak
6006	57.37	57.5	68.2	-10.83	35.4	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5565.2	57.32	58.32	68.2	-10.88	34.68	9.82	45.5	100	0	Peak
5980.35	57.71	58.07	68.2	-10.49	35.18	9.96	45.5	100	0	Peak

CH 159

Horizontal	Vertical
	

802.11ac (20MHz)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	107.22	107.75	/	/	35.09	9.88	45.5	100	310	Peak
5745	101.49	102.02	/	/	35.09	9.88	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	101.01	101.74	/	/	34.89	9.88	45.5	100	23	Peak
5745	94.62	95.35	/	/	34.89	9.88	45.5	100	23	Average

REMARKS:

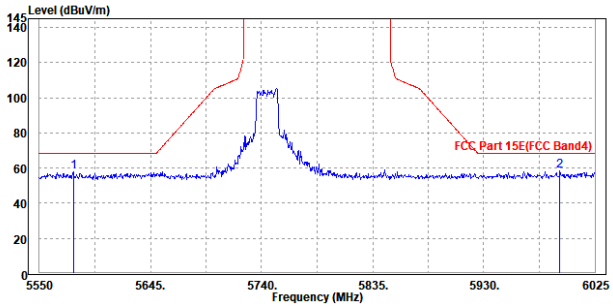
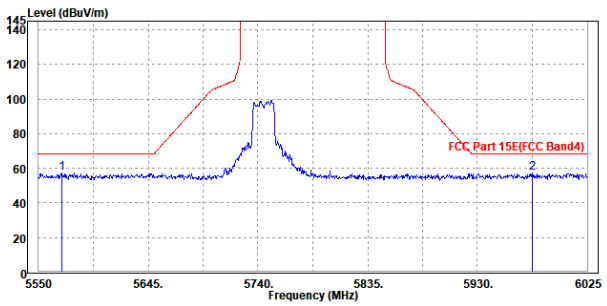
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5578.975	57.63	58.41	68.2	-10.57	34.89	9.83	45.5	100	0	Peak
5995.075	58.31	58.45	68.2	-9.89	35.39	9.97	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5570.425	57.31	58.31	68.2	-10.89	34.68	9.82	45.5	100	360	Peak
5977.5	57.39	57.76	68.2	-10.81	35.17	9.96	45.5	100	360	Peak

CH 149

Horizontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	107.18	107.64	/	/	35.14	9.9	45.5	100	310	Peak
5785	101.3	101.76	/	/	35.14	9.9	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	100.72	101.38	/	/	34.94	9.9	45.5	100	23	Peak
5785	93.59	94.25	/	/	34.94	9.9	45.5	100	23	Average

REMARKS:

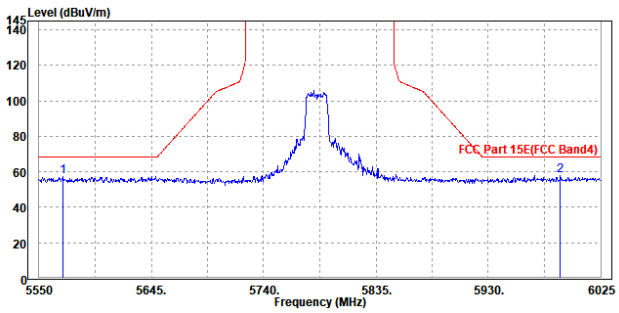
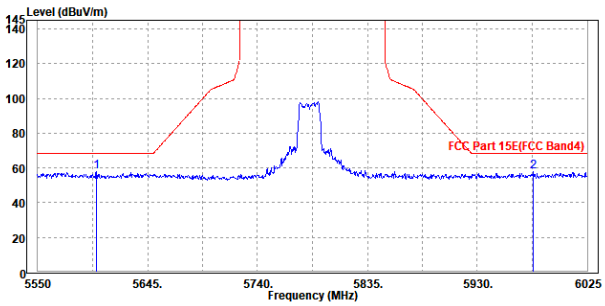
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5569.95	57.39	58.19	68.2	-10.81	34.88	9.82	45.5	100	360	Peak
5990.8	57.8	57.94	68.2	-10.4	35.39	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5600.825	57.77	58.72	68.2	-10.43	34.72	9.83	45.5	100	0	Peak
5978.45	57.83	58.2	68.2	-10.37	35.17	9.96	45.5	100	0	Peak

CH 157

Horizontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	108.31	108.71	/	/	35.19	9.91	45.5	100	310	Peak
5825	101.79	102.19	/	/	35.19	9.91	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	100.69	101.29	/	/	34.99	9.91	45.5	100	23	Peak
5825	93.73	94.33	/	/	34.99	9.91	45.5	100	23	Average

REMARKS:

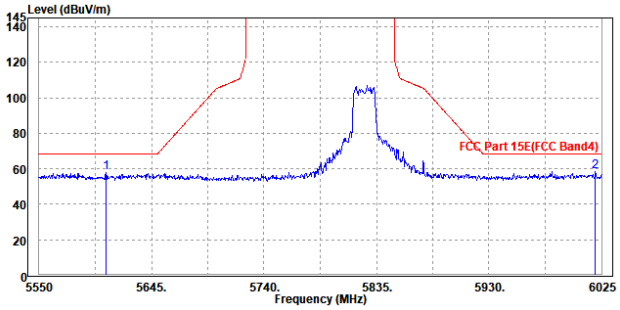
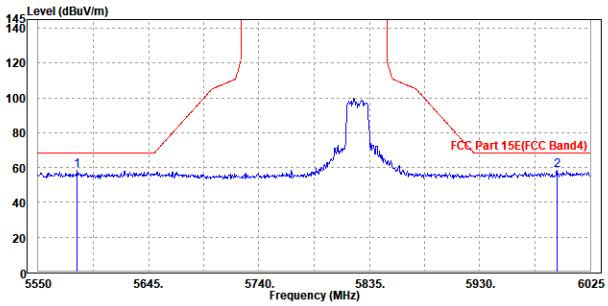
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5606.525	57.75	58.48	68.2	-10.45	34.93	9.84	45.5	100	0	Peak
6019.775	58.49	58.6	68.2	-9.71	35.4	9.98	45.49	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5583.725	58.21	59.18	68.2	-9.99	34.7	9.83	45.5	100	360	Peak
5996.5	58.5	58.83	68.2	-9.7	35.2	9.97	45.5	100	360	Peak

CH 165

Horizontal	Vertical
	

802.11ac (40MHz)

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	100.52	101.02	/	/	35.11	9.89	45.5	100	310	Peak
5755	96.55	97.05	/	/	35.11	9.89	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	94.67	95.37	/	/	34.91	9.89	45.5	100	23	Peak
5755	89.64	90.34	/	/	34.91	9.89	45.5	100	23	Average

REMARKS:

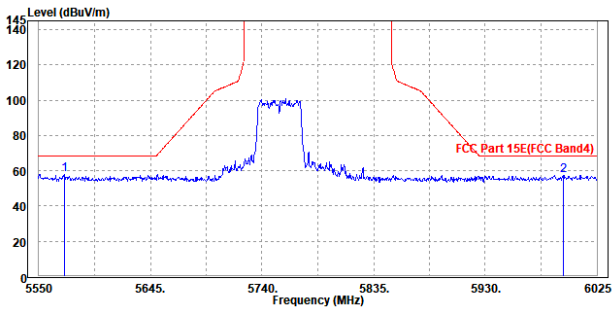
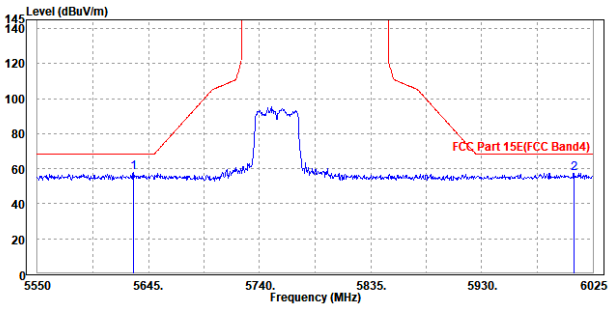
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

OOBE DATA

802.11ac (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5571.85	57.73	58.52	68.2	-10.47	34.89	9.82	45.5	100	360	Peak
5996.5	57.55	57.68	68.2	-10.65	35.4	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5632.175	57.68	58.58	68.2	-10.52	34.76	9.84	45.5	100	0	Peak
6008.85	57.53	57.84	68.2	-10.67	35.21	9.98	45.5	100	0	Peak

CH 151

Horizontal	Vertical
	

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	101.31	101.76	/	/	35.15	9.9	45.5	100	310	Peak
5795	97.05	97.5	/	/	35.15	9.9	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	93.67	94.32	/	/	34.95	9.9	45.5	100	23	Peak
5795	88.83	89.48	/	/	34.95	9.9	45.5	100	23	Average

REMARKS:

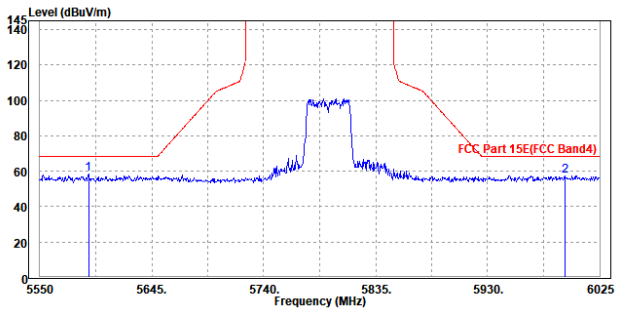
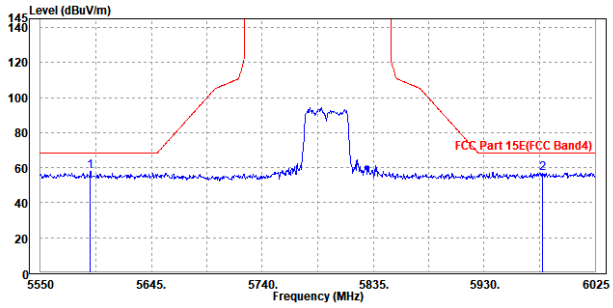
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

OOBE DATA

802.11ac (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5591.325	58.19	58.95	68.2	-10.01	34.91	9.83	45.5	100	0	Peak
5995.55	57.45	57.59	68.2	-10.75	35.39	9.97	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5592.75	58.14	59.1	68.2	-10.06	34.71	9.83	45.5	100	360	Peak
5979.875	57.03	57.39	68.2	-11.17	35.18	9.96	45.5	100	360	Peak

CH 159

Horizontal	Vertical
	

802.11ac (80MHz)

CHANNEL	TX Channel 155	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	95.63	96.11	/	/	35.13	9.89	45.5	100	310	Peak
5775	92.46	92.94	/	/	35.13	9.89	45.5	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	89.15	89.83	/	/	34.93	9.89	45.5	100	23	Peak
5775	84.65	85.33	/	/	34.93	9.89	45.5	100	23	Average

REMARKS:

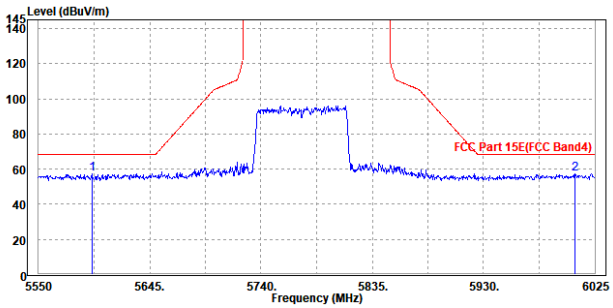
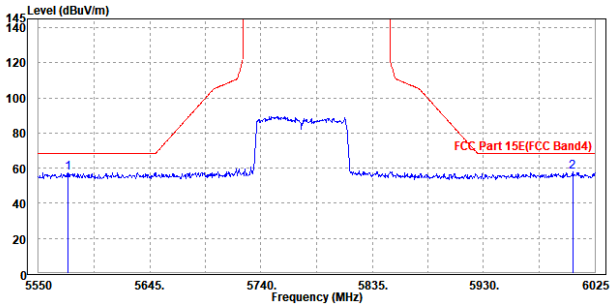
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

OOBE DATA

802.11ac (80MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5595.6	57.37	58.13	68.2	-10.83	34.91	9.83	45.5	100	360	Peak
6007.9	57.14	57.26	68.2	-11.06	35.4	9.98	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5575.175	57.59	58.57	68.2	-10.61	34.69	9.83	45.5	100	0	Peak
6006	58.06	58.38	68.2	-10.14	35.21	9.97	45.5	100	0	Peak

CH 155

Horizontal	Vertical
	

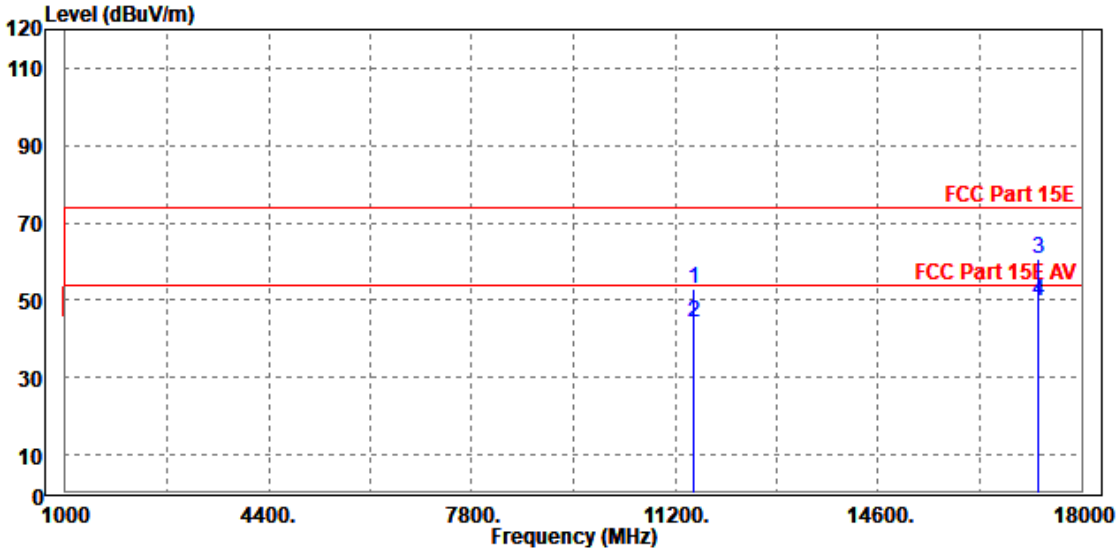
802.11n (40MHz):

Worst case harmonic:

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

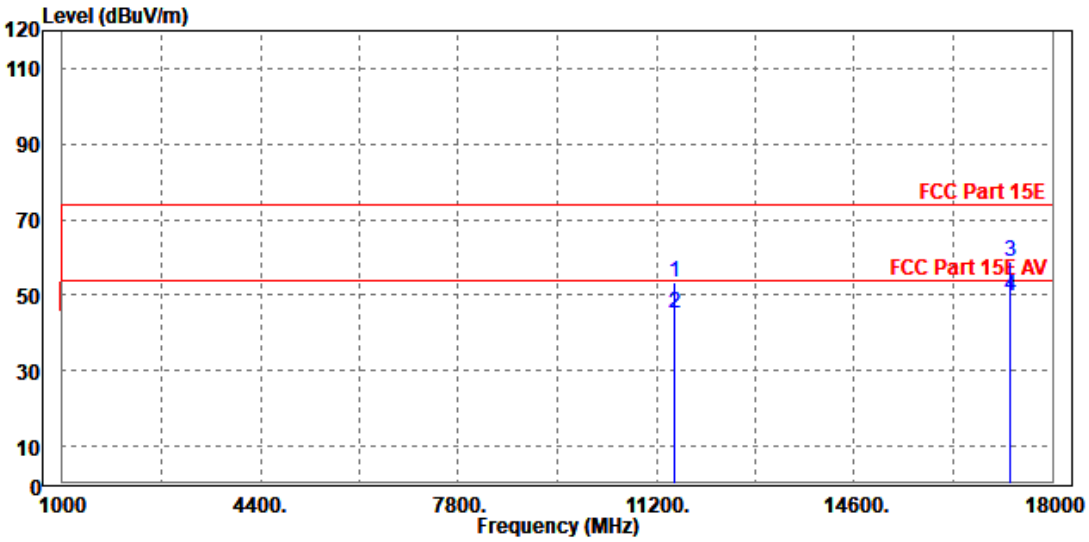
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11510.000	52.82	43.73	74.00	-21.18	9.09	Peak	Horizontal
2	11510.000	44.35	35.26	54.00	-9.65	9.09	Average	Horizontal
3	PK17269.000	60.52	42.28	74.00	-13.48	18.24	Peak	Horizontal
4	PP17269.000	49.58	31.34	54.00	-4.42	18.24	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11506.000	53.29	43.61	74.00	-20.71	9.68	Peak	Vertical
2	11506.000	45.01	35.33	54.00	-8.99	9.68	Average	Vertical
3	PK17265.000	58.71	41.85	74.00	-15.29	16.86	Peak	Vertical
4	PP17265.000	49.51	32.65	54.00	-4.49	16.86	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Feb.25,22	Feb.24,24
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Feb.17,22	Feb.16,24
CABLE	Rohde&Schwarz	W61.01	N/A	Apr.28,23	Oct.27,23
CABLE	Rohde&Schwarz	W61.01	N/A	Oct.27,23	Apr.26,24
CABLE	Rohde&Schwarz	W601	N/A	Apr.28,23	Oct.27,23
CABLE	Rohde&Schwarz	W601	N/A	Oct.27,23	Apr.26,24

NOTE:
1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is or 6 months 24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

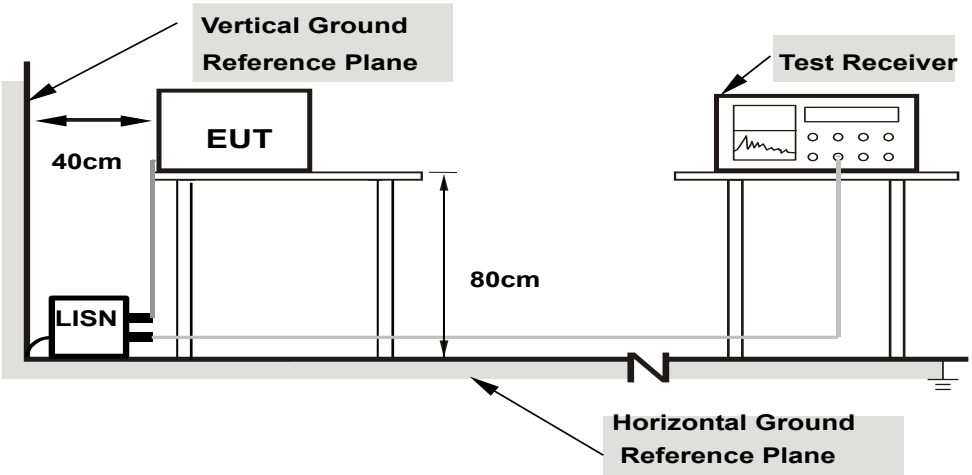
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	DC 48V	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Chao Wu		

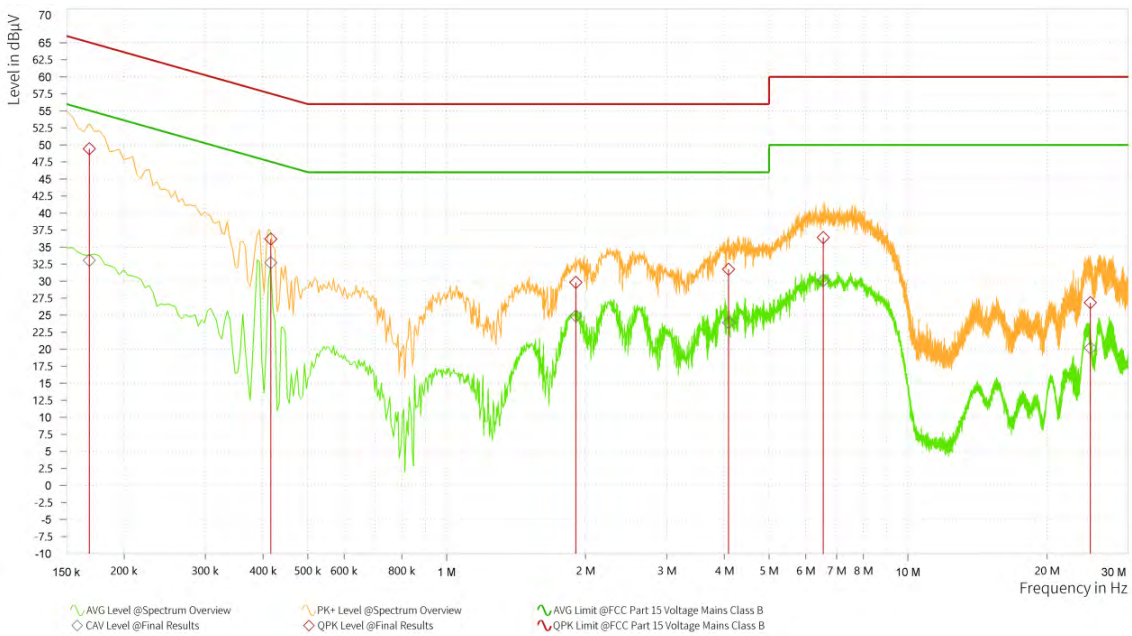
Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.155	51.12	65.75	14.64	34.63	55.75	21.13	12.51	L1	9.000
1	0.393	36.39	58.00	21.61	32.29	48.00	15.71	11.77	L1	9.000
1	1.059	22.91	56.00	33.09	14.40	46.00	31.60	11.75	L1	9.000
1	2.337	28.89	56.00	27.11	22.71	46.00	23.29	11.77	L1	9.000
1	6.162	35.65	60.00	24.35	29.11	50.00	20.89	11.80	L1	9.000
1	25.953	28.74	60.00	31.26	23.02	50.00	26.98	11.90	L1	9.000

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	DC 48V	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Chao Wu		

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.168	49.43	65.06	15.63	33.04	55.06	22.02	12.18	N	9.000
1	0.416	36.18	57.54	21.36	32.71	47.54	14.83	12.81	N	9.000
1	1.905	29.80	56.00	26.20	24.88	46.00	21.12	12.74	N	9.000
1	4.083	31.75	56.00	24.25	23.91	46.00	22.09	12.76	N	9.000
1	6.554	36.39	60.00	23.61	30.10	50.00	19.90	12.78	N	9.000
1	24.837	26.85	60.00	33.15	20.19	50.00	29.81	12.87	N	9.000

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

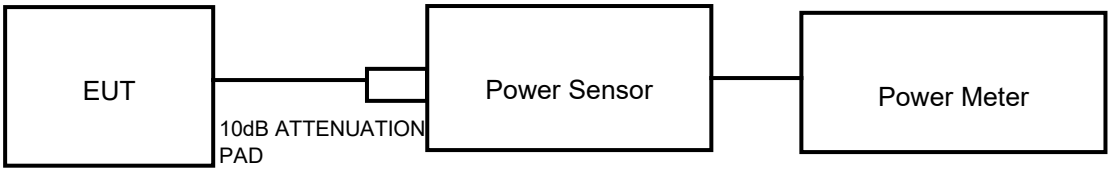
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	B	Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz.

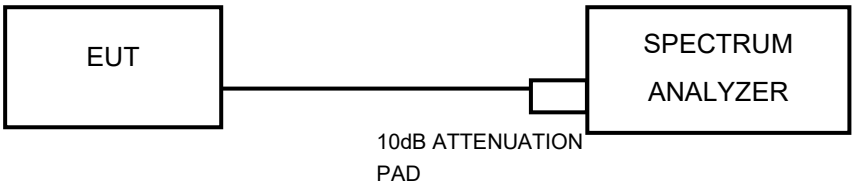
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

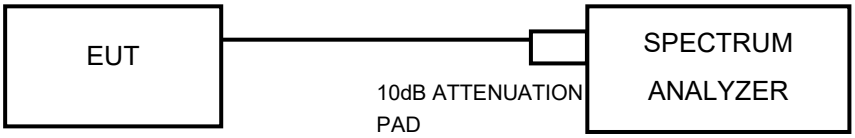
802.11a, 802.11n/ac(20MHz), 802.11 n/ac (40MHz) TEST CONFIGURATION



802.11ac (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	R&S	ESW 44	101973	Feb.25,22	Feb.24,24
Open Switch and Control Unit	R&S	OSP-B157W8	100836	N/A	N/A
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A03	182185	Feb.16,22	Feb.15,24
Wideband Radio Communication	R&S	CMW500	169399	Jun.26,22	Jun.25,24
Hygrothermograph	DELI	20210528	SZ015	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.27,23	Apr.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

NOTE:

1. The calibration interval of the above test instruments is 6 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11 n/ac (20MHz), 802.11 n/ac (40MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac(80MHz)

1. Measure the duty cycle, x, of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add 10 log (1/x), where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is 25%.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.3.7 TEST RESULTS

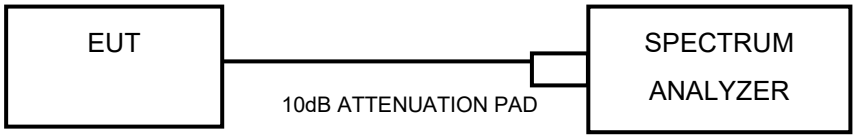
Please Refer to Appendix Of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.

2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS

3) Set Channel power measure = 1MHz

4) Sweep time = auto, trigger set to “free run”.

5) Trace average at least 100 traces in power averaging mode.

6) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).

7) Record the max value

Using method SA-2 (Band4)

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.

2) Set RBW = 300 KHz, Set VBW ≥ 1 MHz, Detector = RMS

3) Set Channel power measure = 1MHz

4) Sweep time = auto, trigger set to “free run”.

5) Trace average at least 100 traces in power averaging mode.

6) Add 10 log(500kHz/RBW) to the test result. 10 log(500kHz/300KHZ) = 2.22dBm

7) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).

8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.4.7 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving。 The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

6 APPENDIX

EMISSION BANDWIDTH

TEST RESULT

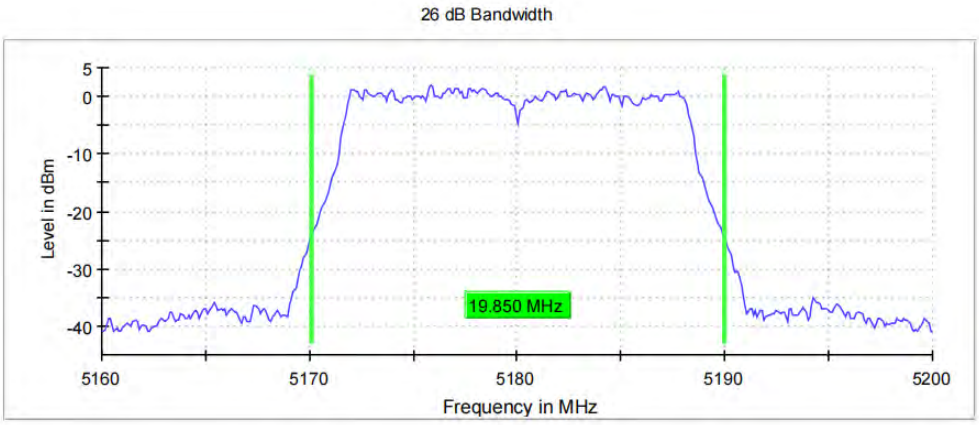
TestMode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	19.850	5170.125	5189.975	---	---
	Ant1	5180	20.351	5169.825	5190.175	---	---
	Ant0	5200	28.070	5185.213	5213.283	---	---
	Ant1	5200	31.679	5184.812	5216.491	---	---
	Ant0	5240	26.566	5225.614	5252.180	---	---
	Ant1	5240	27.870	5225.514	5253.383	---	---
	Ant0	5260	19.950	5249.925	5269.875	---	---
	Ant1	5260	20.952	5249.323	5270.276	---	---
	Ant0	5300	20.050	5289.925	5309.975	---	---
	Ant1	5300	21.454	5289.323	5310.777	---	---
	Ant0	5320	19.749	5310.125	5329.875	---	---
	Ant1	5320	20.351	5309.825	5330.175	---	---
	Ant0	5500	19.950	5490.125	5510.075	---	---
	Ant1	5500	21.253	5489.624	5510.877	---	---
	Ant0	5580	35.789	5562.206	5597.995	---	---
	Ant1	5580	34.486	5562.907	5597.393	---	---
	Ant0	5700	19.950	5690.025	5709.975	---	---
	Ant1	5700	20.050	5690.025	5710.075	---	---
	Ant0	5720	35.589	5702.206	5737.794	---	---
	Ant1	5720	35.489	5702.206	5737.694	---	---
	Ant0	5745	34.687	5727.306	5761.992	---	---
	Ant1	5745	35.890	5727.306	5763.195	---	---
	Ant0	5785	35.489	5767.206	5802.694	---	---
	Ant1	5785	35.388	5767.005	5802.393	---	---
	Ant0	5825	34.787	5807.206	5841.992	---	---
	Ant1	5825	35.890	5807.206	5843.095	---	---
11N20-MIMO	Ant0	5180	20.150	5169.925	5190.075	---	---
	Ant1	5180	20.551	5169.724	5190.276	---	---
	Ant0	5200	21.554	5188.922	5210.476	---	---

	Ant1	5200	23.358	5188.922	5212.281	---	---
	Ant0	5240	20.852	5229.523	5250.376	---	---
	Ant1	5240	20.652	5229.524	5250.175	---	---
	Ant0	5260	20.050	5249.925	5269.975	---	---
	Ant1	5260	20.351	5249.724	5270.075	---	---
	Ant0	5300	20.150	5290.025	5310.175	---	---
	Ant1	5300	20.451	5289.724	5310.175	---	---
	Ant0	5320	20.150	5309.925	5330.075	---	---
	Ant1	5320	20.652	5309.724	5330.376	---	---
	Ant0	5500	20.251	5490.025	5510.276	---	---
	Ant1	5500	22.556	5489.424	5511.980	---	---
	Ant0	5580	33.784	5564.912	5598.697	---	---
	Ant1	5580	33.784	5564.812	5598.596	---	---
	Ant0	5700	20.150	5689.925	5710.075	---	---
	Ant1	5700	20.451	5689.724	5710.175	---	---
	Ant0	5720	34.386	5704.812	5739.198	---	---
	Ant1	5720	36.090	5702.607	5738.697	---	---
	Ant0	5745	32.180	5729.812	5761.992	---	---
	Ant1	5745	33.283	5730.414	5763.697	---	---
	Ant0	5785	31.479	5769.010	5800.489	---	---
	Ant1	5785	31.880	5768.609	5800.489	---	---
	Ant0	5825	31.980	5810.013	5841.992	---	---
	Ant1	5825	31.980	5810.113	5842.093	---	---
11N40-MIMO	Ant0	5190	40.451	5169.850	5210.301	---	---
	Ant1	5190	40.150	5170.000	5210.150	---	---
	Ant0	5230	40.451	5209.850	5250.301	---	---
	Ant1	5230	40.150	5210.000	5250.150	---	---
	Ant0	5270	40.752	5249.699	5290.451	---	---
	Ant1	5270	40.000	5250.000	5290.000	---	---
	Ant0	5310	40.301	5289.850	5330.150	---	---
	Ant1	5310	40.000	5290.150	5330.150	---	---
	Ant0	5510	40.451	5489.850	5530.301	---	---
	Ant1	5510	40.150	5490.000	5530.150	---	---
	Ant0	5550	40.451	5529.699	5570.150	---	---
	Ant1	5550	39.850	5530.000	5569.850	---	---
	Ant0	5670	40.301	5649.850	5690.150	---	---

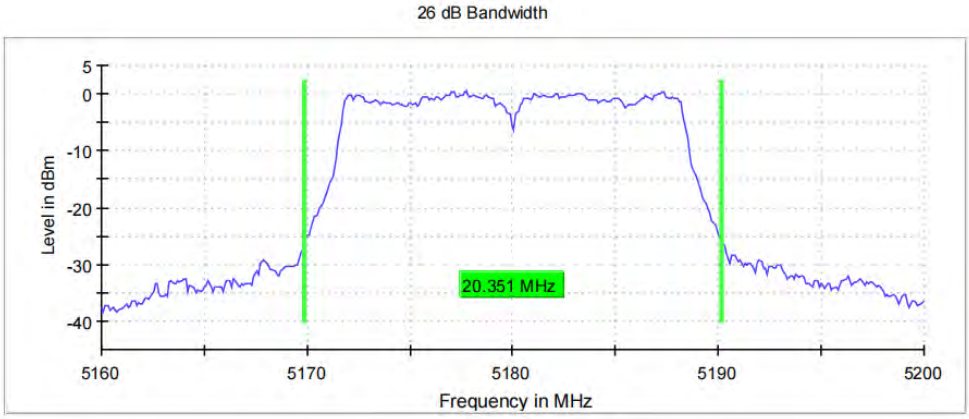
	Ant1	5670	40.150	5650.000	5690.150	---	---
	Ant0	5710	40.902	5689.699	5730.602	---	---
	Ant1	5710	40.000	5690.150	5730.150	---	---
	Ant0	5755	40.301	5734.850	5775.150	---	---
	Ant1	5755	39.850	5735.150	5775.000	---	---
	Ant0	5795	40.602	5774.850	5815.451	---	---
	Ant1	5795	39.850	5775.000	5814.850	---	---
11AC80-MIMO	Ant0	5210	83.260	5168.621	5251.881	---	---
	Ant1	5210	82.759	5168.621	5251.379	---	---
	Ant0	5290	82.759	5248.621	5331.379	---	---
	Ant1	5290	82.759	5248.621	5331.379	---	---
	Ant0	5530	83.260	5488.621	5571.881	---	---
	Ant1	5530	82.759	5488.621	5571.379	---	---
	Ant0	5610	82.759	5568.621	5651.379	---	---
	Ant1	5610	82.759	5568.621	5651.379	---	---
	Ant0	5690	82.759	5648.621	5731.379	---	---
	Ant1	5690	82.759	5648.621	5731.379	---	---
	Ant0	5775	82.759	5733.621	5816.379	---	---
	Ant1	5775	82.759	5733.621	5816.379	---	---

TEST GRAPHS

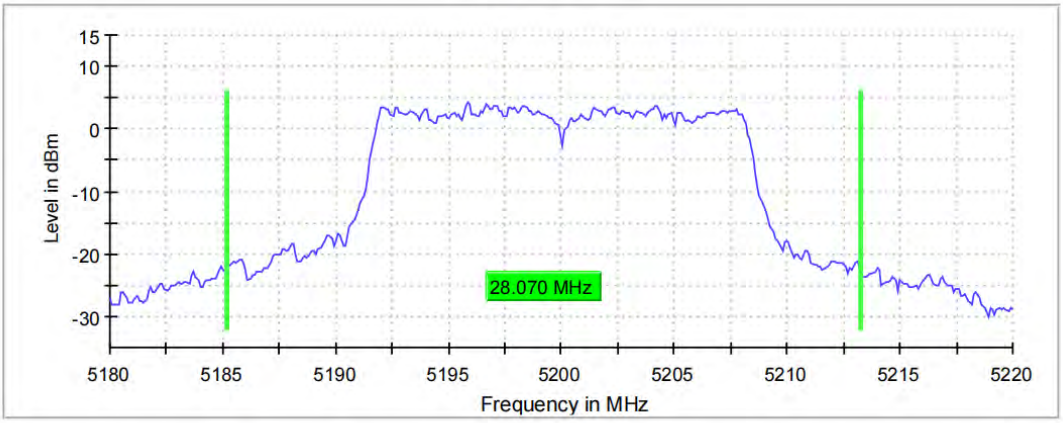
11A_Ant0_5180



11A_Ant1_5180

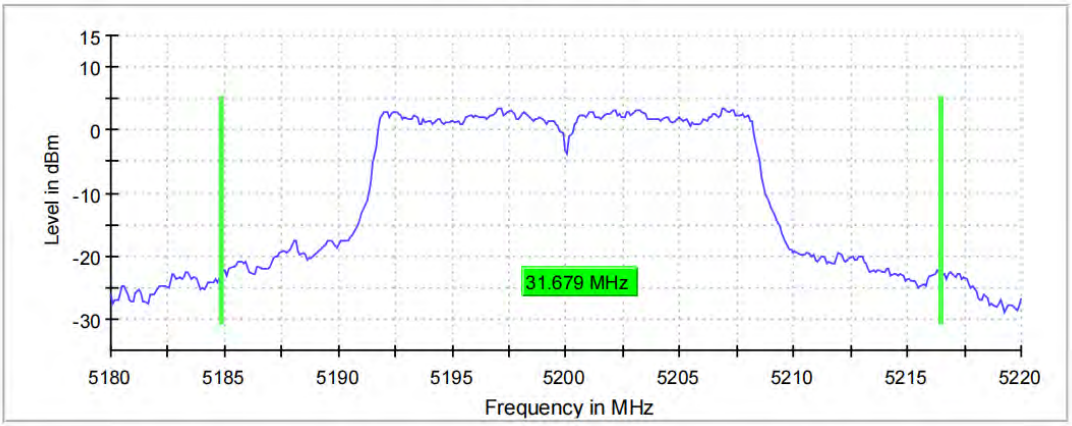


11A _Ant0_5200



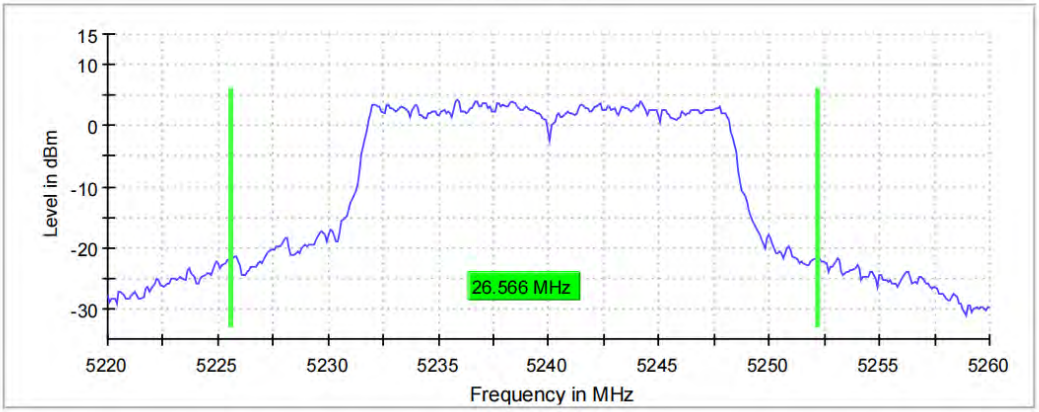
11A _Ant1_5200

26 dB Bandwidth



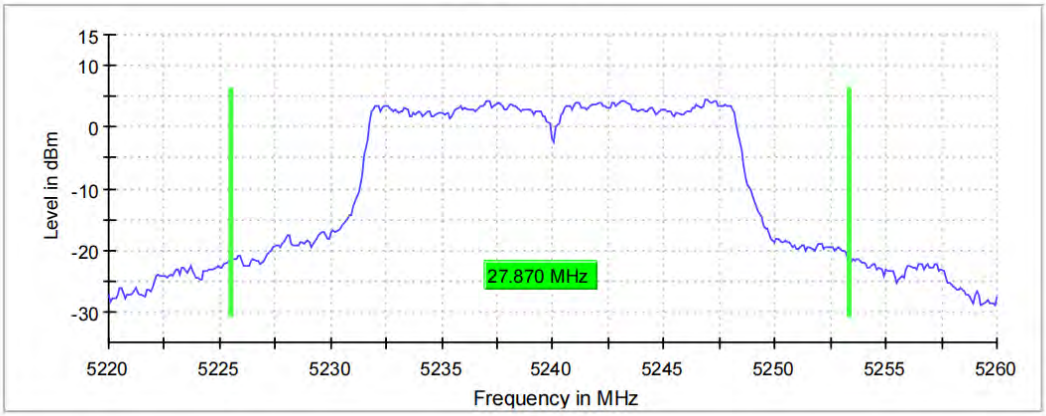
11A _Ant0_5240

26 dB Bandwidth

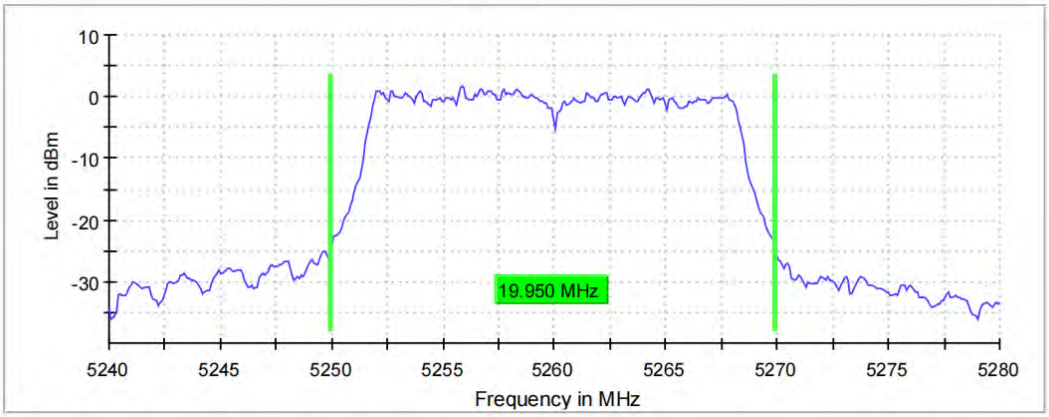


11A _Ant1_5240

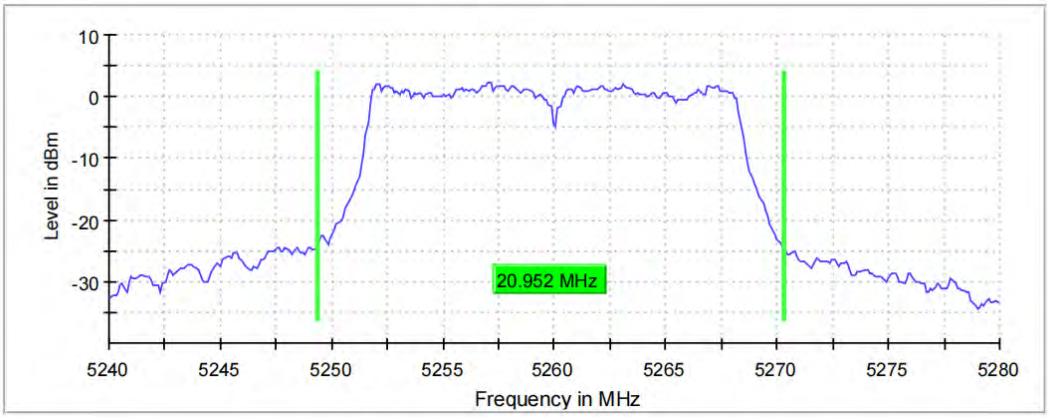
26 dB Bandwidth



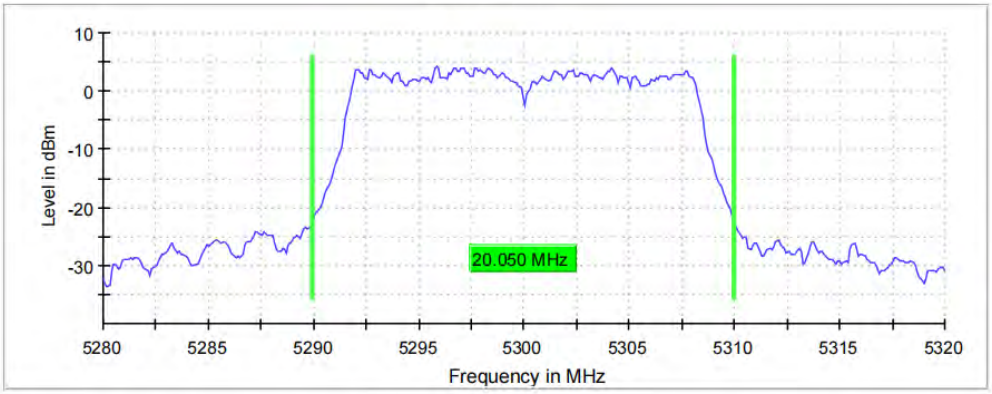
11A _Ant0_5260



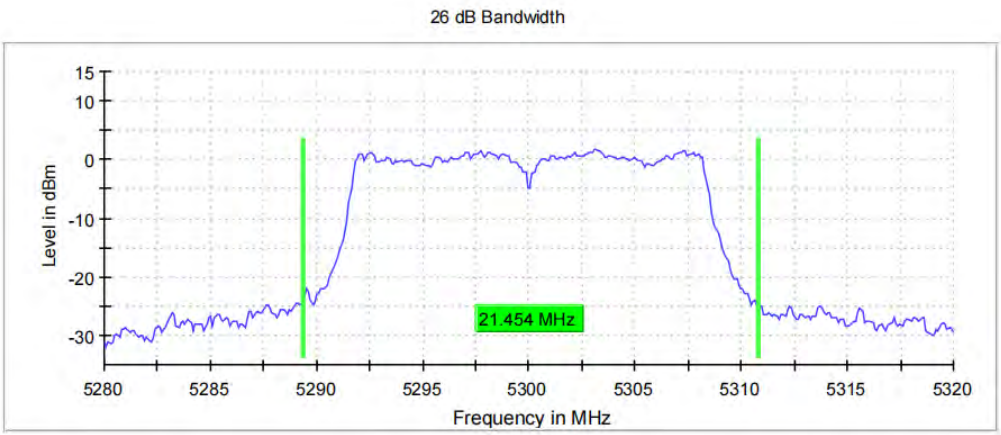
11A _Ant1_5260



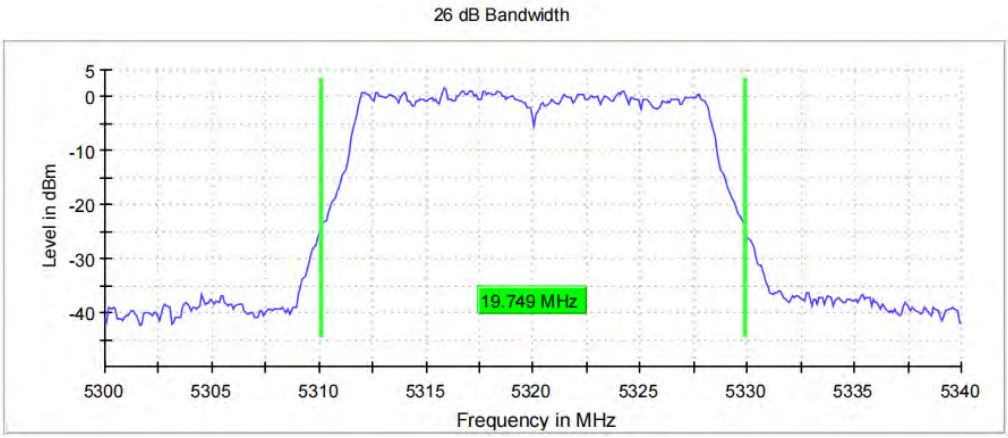
11A _Ant0_5300



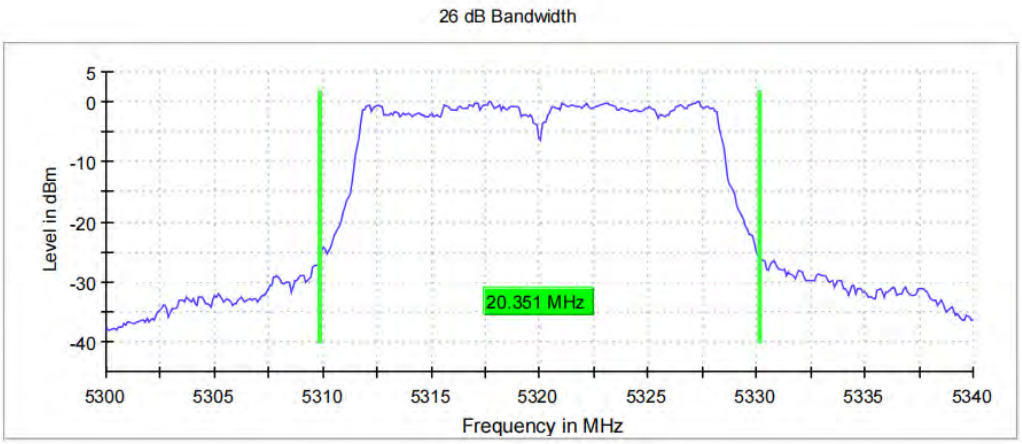
11A _Ant1_5300



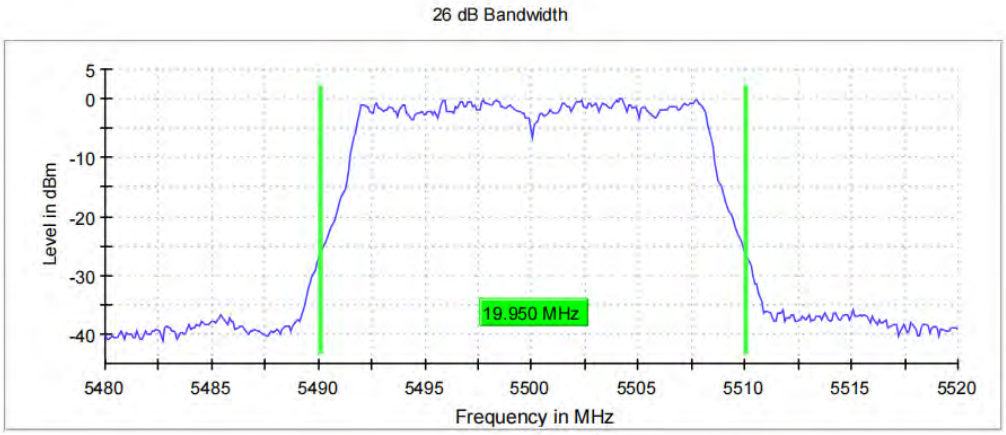
11A _Ant0_5320



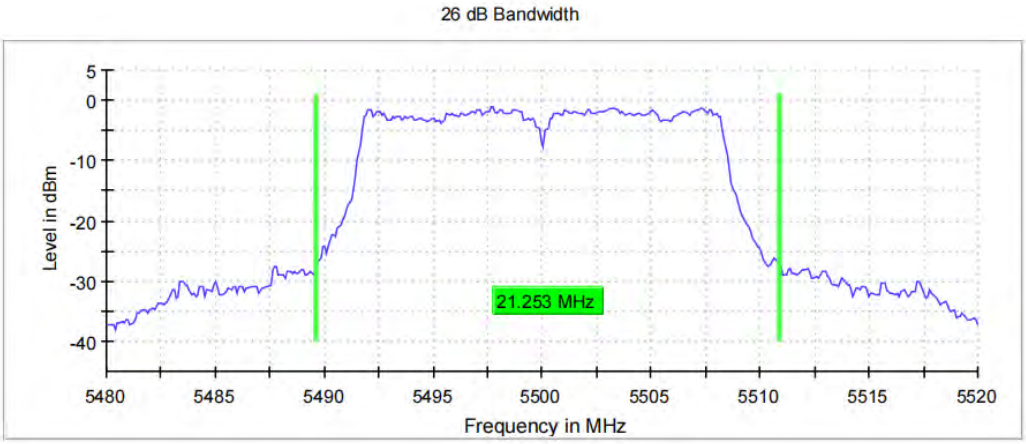
11A _Ant1_5320



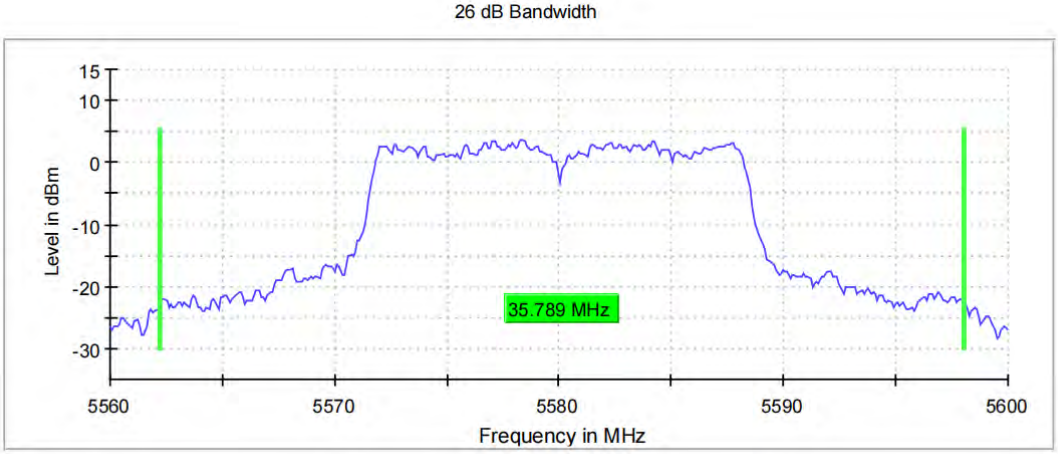
11A _Ant0_5500



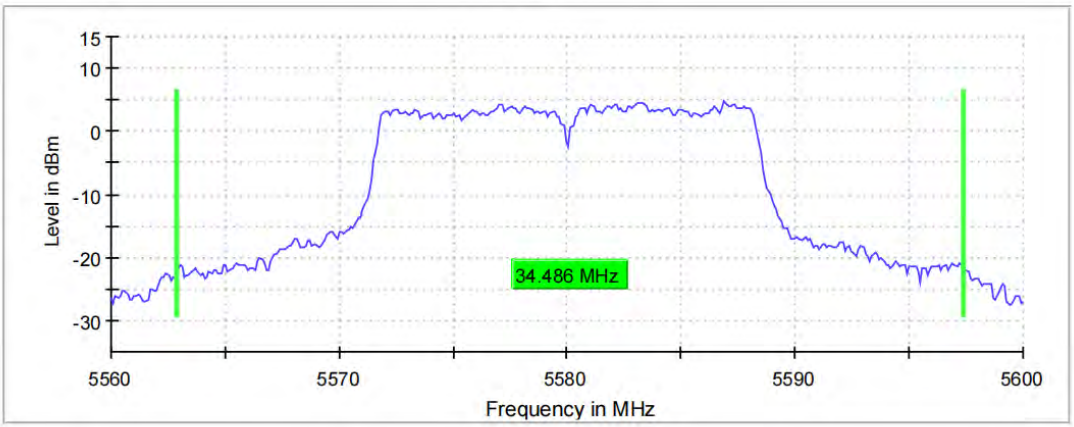
11A _Ant1_5500



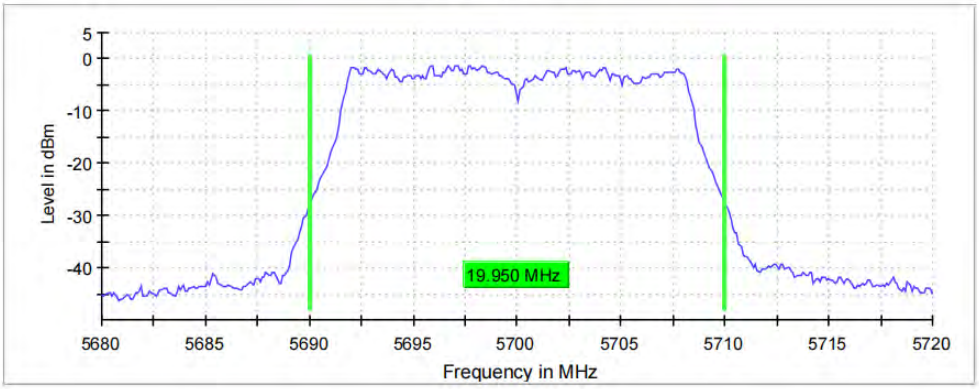
11A _Ant0_5580



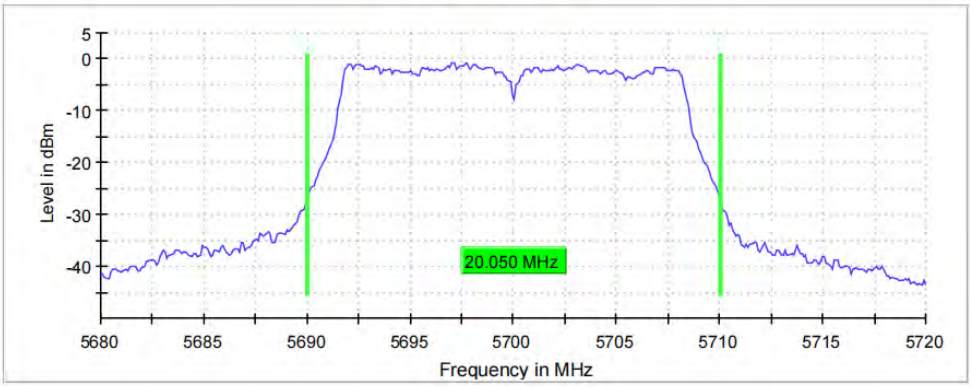
11A _Ant1_5580



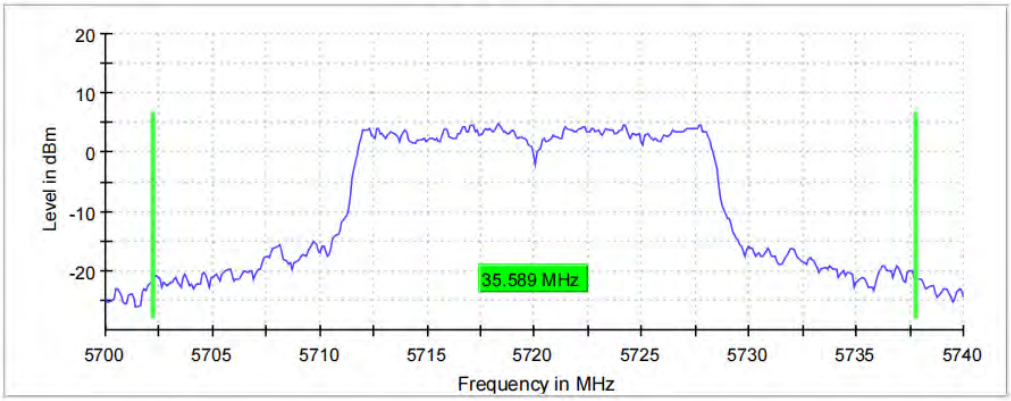
11A _Ant0_5700



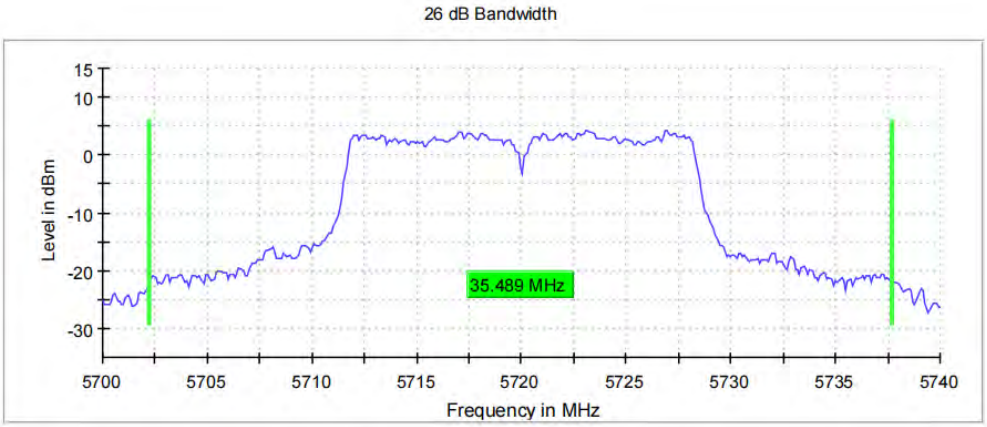
11A _Ant1_5700



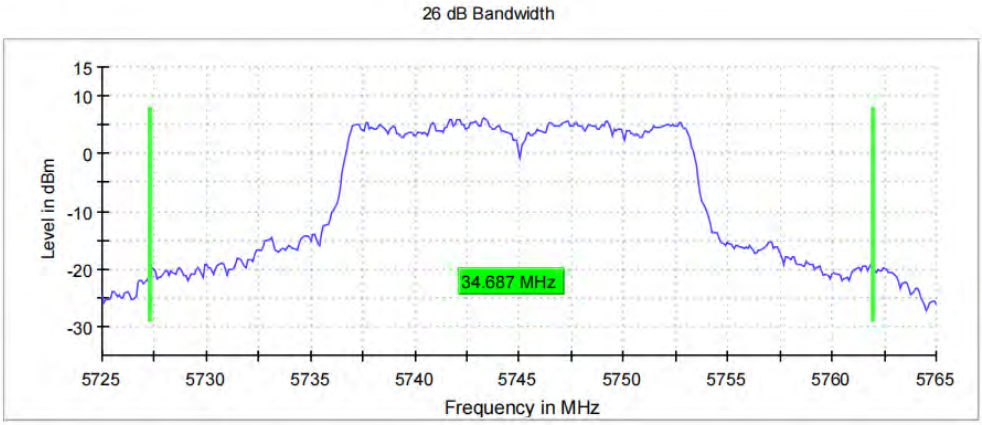
11A_Ant0_5720



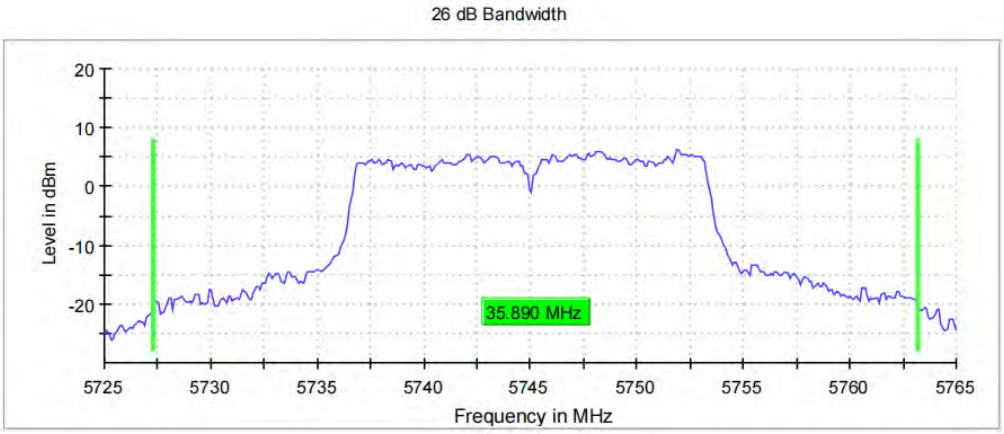
11A_Ant1_5720



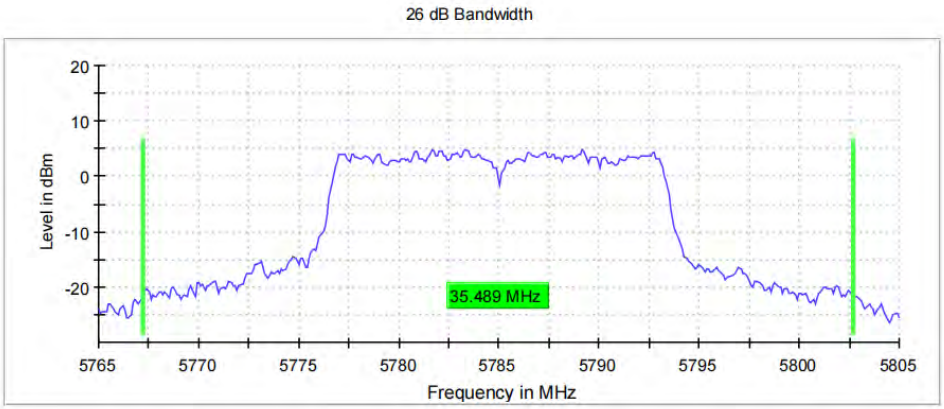
11A _Ant0_5745



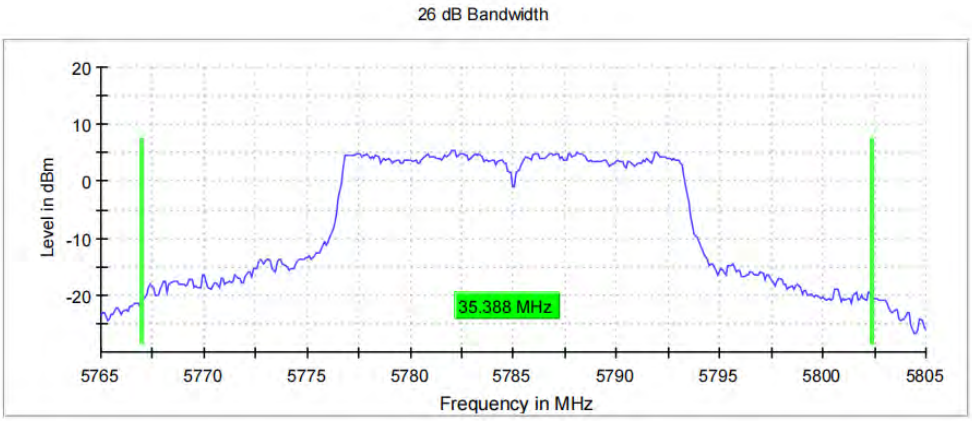
11A _Ant1_5745



11A _Ant0_5785



11A _Ant1_5785



11A_Ant0_5825