Band 3

802.11a

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	56.38	58.89	74	-17.62	36.26	7.49	46.26	110	140	Peak
5460	43.78	46.29	54	-10.22	36.26	7.49	46.26	110	140	Average
#5470	57.39	59.89	68.3	-10.91	36.27	7.49	46.26	110	140	Peak
5500	103.78	106.23			36.3	7.5	46.25	110	140	Peak
5500	94.28	96.73			36.3	7.5	46.25	110	140	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	56.59	58.88	74	-17.41	36.48	7.49	46.26	110	140	Peak
5460	43.45	45.74	54	-10.55	36.48	7.49	46.26	110	140	Average
#5470	57.25	59.54	68.3	-11.05	36.48	7.49	46.26	110	140	Peak
5500	100.37	102.62			36.5	7.5	46.25	110	140	Peak
5500	80.55	82.8			36.5	7.5	46.25	110	140	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	55.63	58.14	74	-18.37	36.26	7.49	46.26	110	140	Peak
5460	42.81	45.32	54	-11.19	36.26	7.49	46.26	110	140	Average
#5470	55.38	57.88	68.3	-12.92	36.27	7.49	46.26	110	140	Peak
5580	103.04	105.36			36.33	7.58	46.23	110	140	Peak
5580	95.25	97.57			36.33	7.58	46.23	110	140	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	55.53	57.82	74	-18.47	36.48	7.49	46.26	110	140	Peak
5460	43.01	45.3	54	-10.99	36.48	7.49	46.26	110	140	Average
#5470	55.92	58.21	68.3	-12.38	36.48	7.49	46.26	110	140	Peak
5580	101.41	103.51			36.55	7.58	46.23	110	140	Peak
5580	92.66	94.76			36.55	7.58	46.23	110	140	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	100.13	102.24			36.38	7.7	46.19	110	140	Peak
5700	92.1	94.21			36.38	7.7	46.19	110	140	Average
#5725	58.7	60.77	68.3	-9.6	36.39	7.73	46.19	110	140	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	100.14	102.01			36.62	7.7	46.19	110	140	Peak
5700	92.18	94.05			36.62	7.7	46.19	110	140	Average
#5725	58.57	60.4	68.3	-9.73	36.63	7.73	46.19	110	140	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.

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	56.27	58.78	74	-17.73	36.26	7.49	46.26	110	140	Peak
5460	43.72	46.23	54	-10.28	36.26	7.49	46.26	110	140	Average
#5470	56.65	59.15	68.3	-11.65	36.27	7.49	46.26	110	140	Peak
5500	102.75	105.2			36.3	7.5	46.25	110	140	Peak
5500	88.65	91.1			36.3	7.5	46.25	110	140	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	55.95	58.24	74	-18.05	36.48	7.49	46.26	110	140	Peak
5460	42.92	45.21	54	-11.08	36.48	7.49	46.26	110	140	Average
#5470	56.06	58.35	68.3	-12.24	36.48	7.49	46.26	110	140	Peak
5500	97.3	99.55			36.5	7.5	46.25	110	140	Peak
5500	84.17	86.42			36.5	7.5	46.25	110	140	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	55.59	58.1	74	-18.41	36.26	7.49	46.26	110	140	Peak
5460	42.55	45.06	54	-11.45	36.26	7.49	46.26	110	140	Average
#5470	54.88	57.38	68.3	-13.42	36.27	7.49	46.26	110	140	Peak
5580	101.88	104.2			36.33	7.58	46.23	110	140	Peak
5580	93.34	95.66			36.33	7.58	46.23	110	140	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	56.26	58.55	74	-17.74	36.48	7.49	46.26	110	140	Peak
5460	42.67	44.96	54	-11.33	36.48	7.49	46.26	110	140	Average
#5470	56.14	58.43	68.3	-12.16	36.48	7.49	46.26	110	140	Peak
5580	98.73	100.83			36.55	7.58	46.23	110	140	Peak
5580	89.97	92.07			36.55	7.58	46.23	110	140	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	99.56	101.67			36.38	7.7	46.19	110	140	Peak
5700	90.47	92.58			36.38	7.7	46.19	110	140	Average
#5725	58.02	60.09	68.3	-10.28	36.39	7.73	46.19	110	140	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	98.44	100.31			36.62	7.7	46.19	110	140	Peak
5700	90.09	91.96			36.62	7.7	46.19	110	140	Average
#5725	58.1	59.93	74	-15.9	36.63	7.73	46.19	110	140	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.

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	58.02	60.53	74	-15.98	36.26	7.49	46.26	110	140	Peak
5460	44.9	47.41	54	-9.1	36.26	7.49	46.26	110	140	Average
#5470	57.88	60.38	68.3	-10.42	36.27	7.49	46.26	110	140	Peak
5510	98.87	101.31			36.3	7.51	46.25	110	140	Peak
5510	90.94	93.38			36.3	7.51	46.25	110	140	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	56.84	59.13	74	-17.16	36.48	7.49	46.26	110	140	Peak
5460	43.67	45.96	54	-10.33	36.48	7.49	46.26	110	140	Average
#5470	56.07	58.36	68.3	-12.23	36.48	7.49	46.26	110	140	Peak
5510	93.15	95.38			36.51	7.51	46.25	110	140	Peak
5510	84.77	87			36.51	7.51	46.25	110	140	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	55.92	58.43	74	-18.08	36.26	7.49	46.26	110	140	Peak
5460	43.22	45.73	54	-10.78	36.26	7.49	46.26	110	140	Average
#5470	56	58.5	68.3	-12.3	36.27	7.49	46.26	110	140	Peak
5550	97.01	99.38			36.32	7.55	46.24	110	140	Peak
5550	89.5	91.87			36.32	7.55	46.24	110	140	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	56.41	58.7	74	-17.59	36.48	7.49	46.26	110	140	Peak
5460	43.92	46.21	54	-10.08	36.48	7.49	46.26	110	140	Average
#5470	55.83	58.12	68.3	-12.47	36.48	7.49	46.26	110	140	Peak
5550	93.58	95.74			36.53	7.55	46.24	110	140	Peak
5550	86.12	88.28			36.53	7.55	46.24	110	140	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5550MHz: 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	94.98	97.14			36.37	7.67	46.2	110	140	Peak
5670	87.97	90.13			36.37	7.67	46.2	110	140	Average
#5725	57.79	59.86	68.3	-10.51	36.39	7.73	46.19	110	140	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	94.47	96.4			36.6	7.67	46.2	110	140	Peak
5670	88.28	90.21			36.6	7.67	46.2	110	140	Average
#5725	58.46	60.29	68.3	-9.84	36.63	7.73	46.19	110	140	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.

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	55.8	58.31	74	-18.2	36.26	7.49	46.26	110	140	Peak
5460	43.24	45.75	54	-10.76	36.26	7.49	46.26	110	140	Average
#5470	57.61	60.11	68.3	-10.69	36.27	7.49	46.26	110	140	Peak
5530	93.47	95.87			36.31	7.53	46.24	110	140	Peak
5530	85.67	88.07			36.31	7.53	46.24	110	140	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	56.17	58.46	74	-17.83	36.48	7.49	46.26	110	140	Peak
5460	43.02	45.31	54	-10.98	36.48	7.49	46.26	110	140	Average
#5470	56.15	58.44	68.3	-12.15	36.48	7.49	46.26	110	140	Peak
5530	88.46	90.65			36.52	7.53	46.24	110	140	Peak
5530	80.73	82.92			36.52	7.53	46.24	110	140	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
5610	91.28	93.55			36.34	7.61	46.22	110	140	Peak
5610	86.19	88.46			36.34	7.61	46.22	110	140	Average
#5725	57.59	59.66	68.3	-10.71	36.39	7.73	46.19	110	140	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
5610	89.99	92.03			36.57	7.61	46.22	110	140	Peak
5610	81.98	84.02			36.57	7.61	46.22	110	140	Average
#5725	58.09	59.92	68.3	-10.21	36.63	7.73	46.19	110	140	Peak

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.

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	100.64	102.67			36.4	7.75	46.18	100	320	Peak
5745	92.78	94.81			36.4	7.75	46.18	100	320	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	101.61	103.39			36.65	7.75	46.18	100	340	Peak
5745	92.21	93.99			36.65	7.75	46.18	100	340	Average

REMARKS:

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

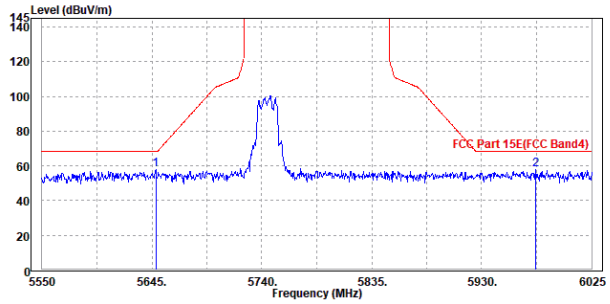
OOBE DATA

802.11a

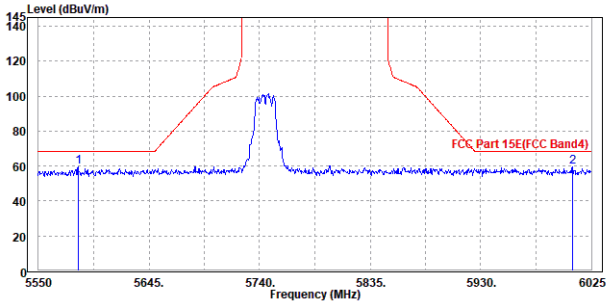
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5648.325	57.8	60	68.3	-10.5	36.36	7.65	46.21	100	320	Peak
5976.55	58.13	59.77	68.3	-10.17	36.49	7.99	46.12	100	320	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
5584.2	59.36	61.45	68.3	-8.94	36.55	7.59	46.23	100	340	Peak
6008.85	59.67	60.97	68.3	-8.63	36.81	8	46.11	100	340	Peak

CH 149

Horiontal



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	101.29	103.26			36.41	7.79	46.17	100	320	Peak
5785	92.92	94.89			36.41	7.79	46.17	100	320	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	100.99	102.7			36.67	7.79	46.17	100	340	Peak
5785	91.53	93.24			36.67	7.79	46.17	100	340	Average

REMARKS:

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

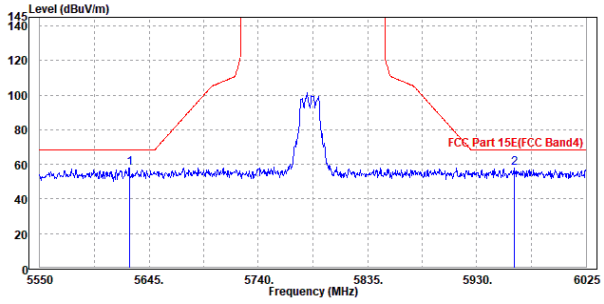
OOBE DATA

802.11a

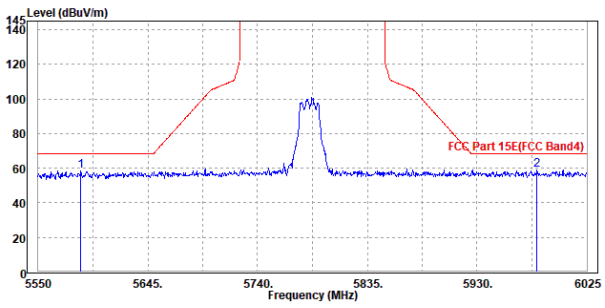
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5627.9	57.87	60.1	68.3	-10.43	36.35	7.63	46.21	100	320	Peak
5962.3	58.05	59.72	68.3	-10.25	36.48	7.97	46.12	100	320	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
5587.05	58.17	60.26	68.3	-10.13	36.55	7.59	46.23	100	340	Peak
5981.775	59.06	60.4	68.3	-9.24	36.79	7.99	46.12	100	340	Peak

CH 157

Horiontal



Vertical



CHANNEL	TX Channel 161	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
5805	102.54	104.47			36.42	7.81	46.16	100	220	Peak
5805	94.36	96.29			36.42	7.81	46.16	100	220	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
5805	99.26	100.93			36.68	7.81	46.16	100	185	Peak
5805	89.53	91.2			36.68	7.81	46.16	100	185	Average

REMARKS:

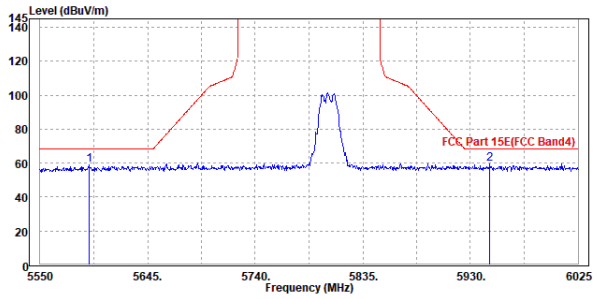
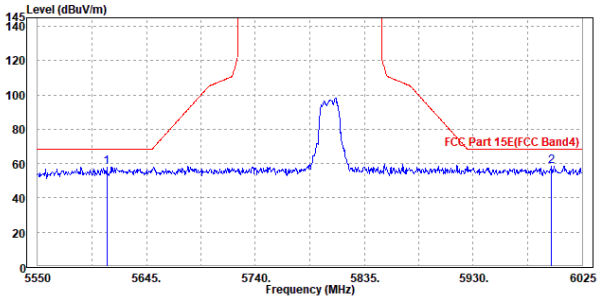
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5805MHz: Fundamental frequency.

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
5593.225	58.95	61.23	68.3	-9.35	36.34	7.6	46.22	100	220	Peak
5947.1	59.45	61.13	68.3	-8.85	36.48	7.96	46.12	100	220	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
5610.325	58.05	60.09	68.3	-10.25	36.57	7.61	46.22	100	185	Peak
5998.4	58.7	60	68.3	-9.6	36.8	8.01	46.11	100	185	Peak

CH 161

Horiontal	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
5745	98.9	100.93			36.4	7.75	46.18	100	320	Peak
5745	90.3	92.33			36.4	7.75	46.18	100	320	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	100.47	102.25			36.65	7.75	46.18	100	340	Peak
5745	90.83	92.61			36.65	7.75	46.18	100	340	Average

REMARKS:

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

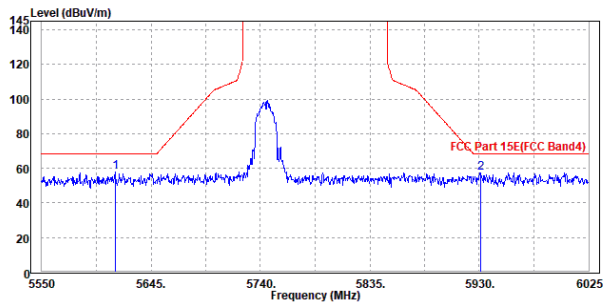
OOBE DATA

802.11n (20MHZ)

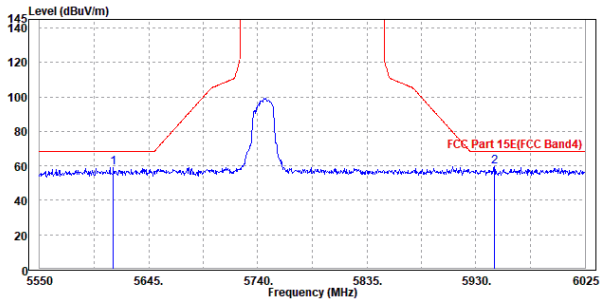
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5613.65	57.92	60.17	68.3	-10.38	36.35	7.62	46.22	100	320	Peak
5930.95	57.61	59.33	68.3	-10.69	36.47	7.94	46.13	100	320	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
5614.125	59.25	61.28	68.3	-9.05	36.57	7.62	46.22	100	340	Peak
5946.15	59.56	60.96	68.3	-8.74	36.77	7.96	46.13	100	340	Peak

CH 149

Horiontal



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	99.67	101.64			36.41	7.79	46.17	100	320	Peak
5785	91.01	92.98			36.41	7.79	46.17	100	320	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	99.01	100.72			36.67	7.79	46.17	100	340	Peak
5785	90.15	91.86			36.67	7.79	46.17	100	340	Average

REMARKS:

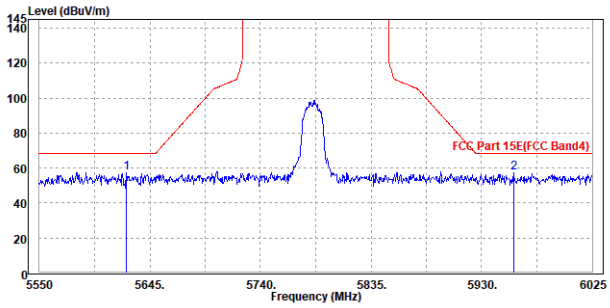
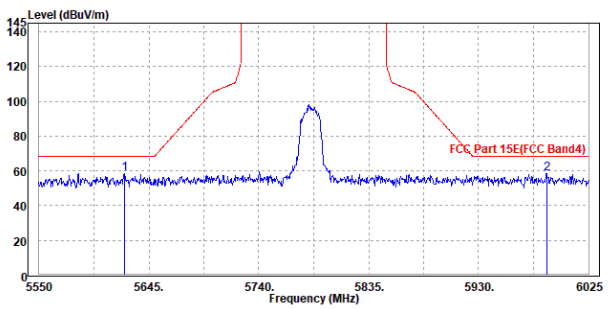
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

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
5624.575	57.31	59.55	68.3	-10.99	36.35	7.63	46.22	100	320	Peak
5957.55	57.19	58.86	68.3	-11.11	36.48	7.97	46.12	100	320	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
5623.625	58.39	60.41	68.3	-9.91	36.57	7.63	46.22	100	340	Peak
5988.9	58.42	59.74	68.3	-9.88	36.79	8	46.11	100	340	Peak

CH 157

Horiontal	Vertical
	

CHANNEL	TX Channel 161	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
5805	101.33	103.26			36.42	7.81	46.16	100	220	Peak
5805	92.61	94.54			36.42	7.81	46.16	100	220	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
5805	99.24	100.91			36.68	7.81	46.16	100	185	Peak
5805	88.69	90.36			36.68	7.81	46.16	100	185	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5805MHz: Fundamental frequency.

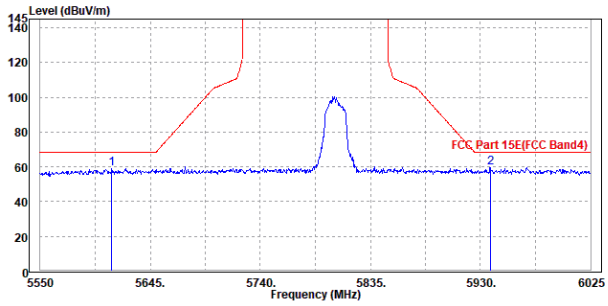
OOBE DATA

802.11n (20MHZ)

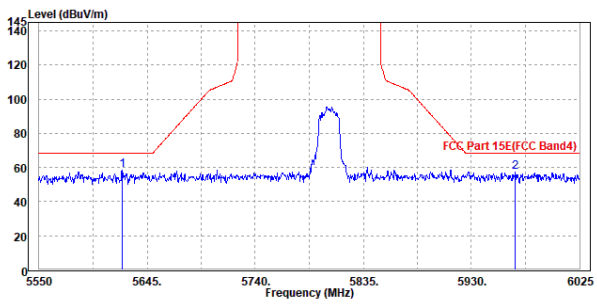
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5611.75	58.84	61.11	68.3	-9.46	36.34	7.61	46.22	100	220	Peak
5938.55	59.48	61.18	68.3	-8.82	36.48	7.95	46.13	100	220	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
5623.15	58.23	60.25	68.3	-10.07	36.57	7.63	46.22	100	185	Peak
5968.475	57.17	58.53	68.3	-11.13	36.78	7.98	46.12	100	185	Peak

CH 161

Horiontal



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	93.42	95.44			36.4	7.76	46.18	100	320	Peak
5755	87.35	89.37			36.4	7.76	46.18	100	320	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	94.69	96.46			36.65	7.76	46.18	100	340	Peak
5755	87.82	89.59			36.65	7.76	46.18	100	340	Average

REMARKS:

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

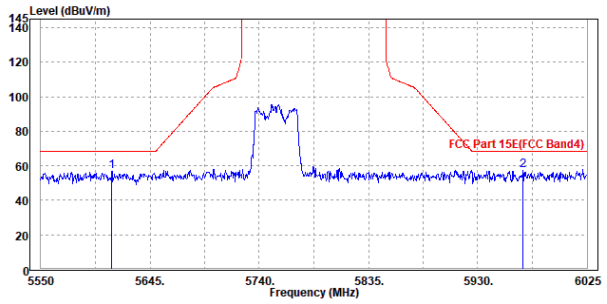
OOBE DATA

802.11n (40MHZ)

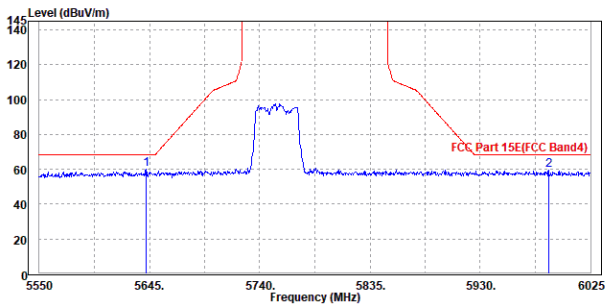
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5611.75	56.86	59.13	68.3	-11.44	36.34	7.61	46.22	100	320	Peak
5969.425	57.44	59.09	68.3	-10.86	36.49	7.98	46.12	100	320	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
5642.15	59.84	61.82	68.3	-8.46	36.59	7.64	46.21	100	340	Peak
5988.9	59.28	60.6	68.3	-9.02	36.79	8	46.11	100	340	Peak

CH 151

Horiontal



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	94.95	96.9			36.42	7.8	46.17	100	320	Peak
5795	87.92	89.87			36.42	7.8	46.17	100	320	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	95.36			36.68	7.8	46.17	100	340	Peak
5795	86.63	88.32			36.68	7.8	46.17	100	340	Average

REMARKS:

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

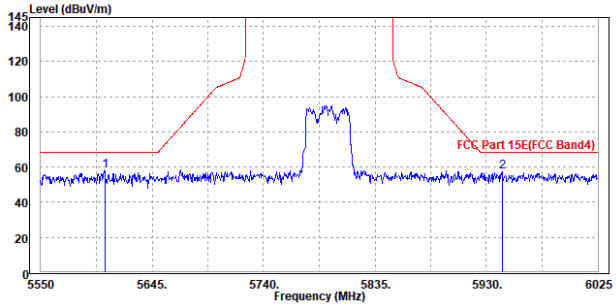
OOBE DATA

802.11n (40MHZ)

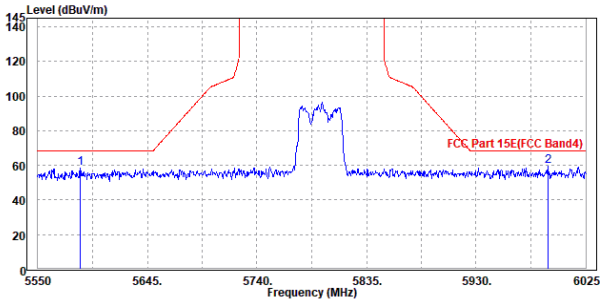
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5604.625	57.7	59.97	68.3	-10.6	36.34	7.61	46.22	100	320	Peak
5943.3	57.45	59.15	68.3	-10.85	36.48	7.95	46.13	100	320	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
5586.575	58.24	60.33	68.3	-10.06	36.55	7.59	46.23	100	340	Peak
5992.225	59.3	60.61	68.3	-9	36.8	8	46.11	100	340	Peak

CH 159

Horiontal



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	89.57	91.55			36.41	7.78	46.17	100	320	Peak
5775	82.52	84.5			36.41	7.78	46.17	100	320	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	89.83	91.55			36.67	7.78	46.17	100	340	Peak
5775	82.61	84.33			36.67	7.78	46.17	100	340	Average

REMARKS:

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

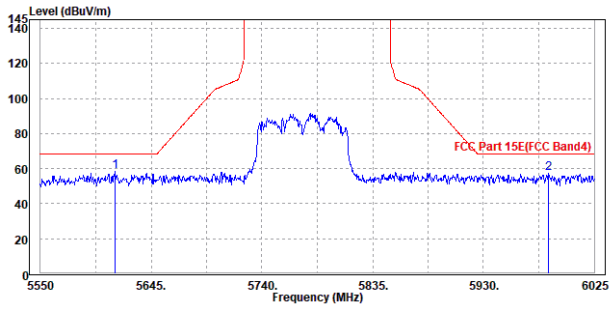
OOBE DATA

802.11ac (80MHZ)

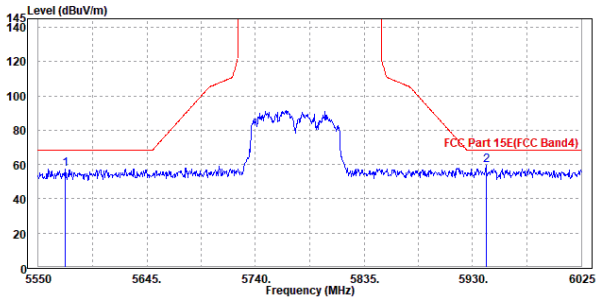
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5613.65	58.63	60.88	68.3	-9.67	36.35	7.62	46.22	100	320	Peak
5986.05	57.38	59	68.3	-10.92	36.49	8	46.11	100	320	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
5573.75	57.42	59.53	68.3	-10.88	36.54	7.58	46.23	100	340	Peak
5941.875	59.3	60.71	68.3	-9	36.77	7.95	46.13	100	340	Peak

CH 155

Horiontal



Vertical



3.2 OUT OF BAND EMISSION MEASUREMENT

3.2.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

	APPLICABLE TO	EIRP LIMIT (dBm/MHz)
OUT OF THE RESTRICTED BANDS	15.407(b)(1)	-27
	15.407(b)(2)	
	15.407(b)(3)	
	15.407(b)(4)	See note

NOTE:

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 24,19	Jun. 23,20
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 24,19	Jun. 23,20

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF OVEN ROOM.
3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.2.3 TEST PROCEDURES

a. Cheak the calibration of the measurement instrument using either an internal calibrator or a known signal from an external generator.

b. The resolution bandwidth is set to 1MHzThe Video bandwidth is set to ≥1MHz, report the peak value out of oprating band.

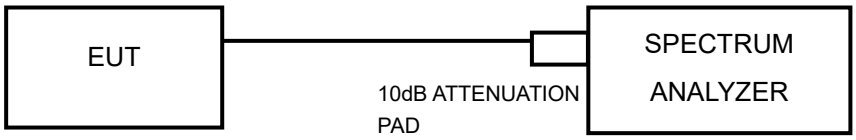
c. Repeat above procedures until all frequencies measured wre complete.

NOTE: All modes of operation were investigated and the worst-case emissions are reported,antenna gain was added into the test result.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



3.2.6 EUT OPERATING CONDITION

a. Set the EUT under full load condition and placed them on a testing table.

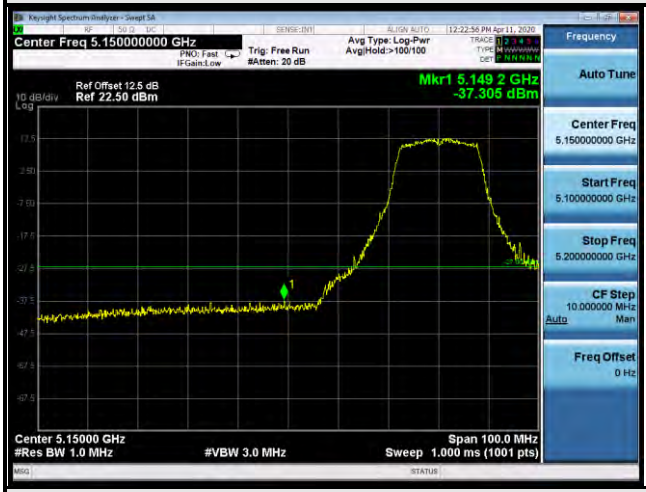
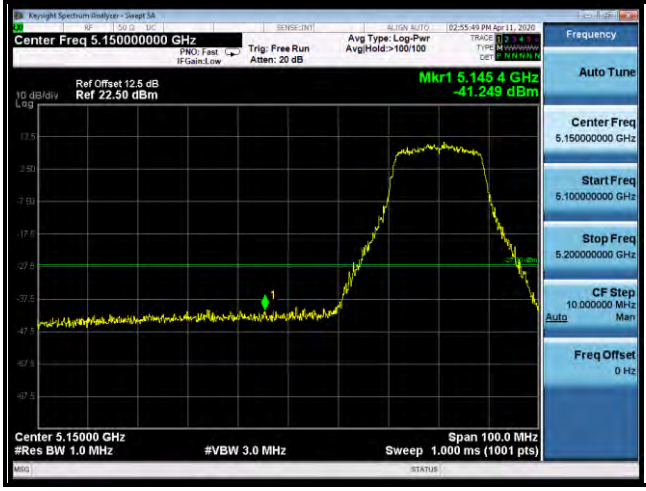
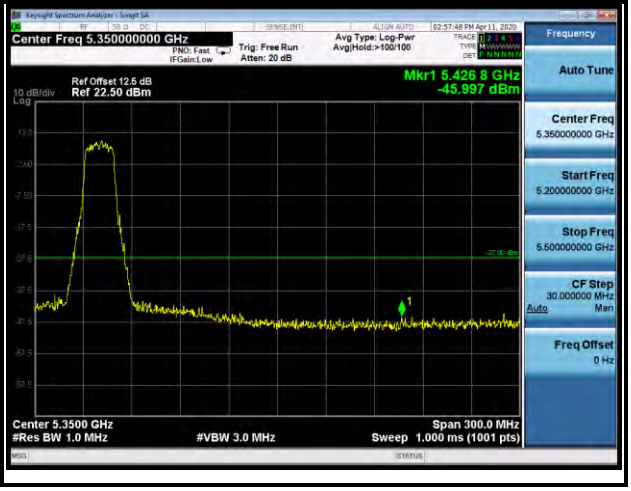
b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

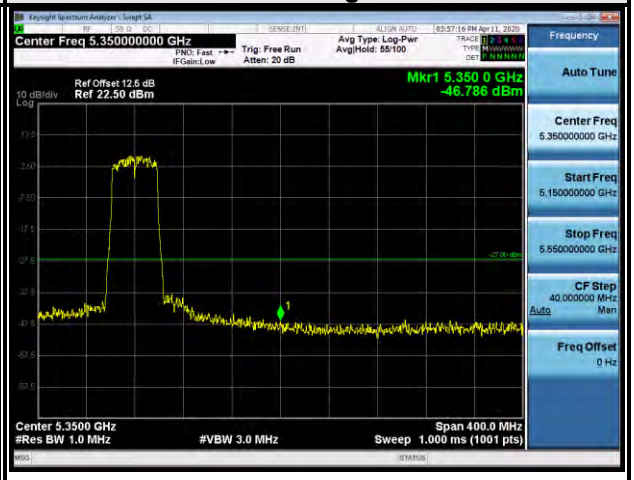
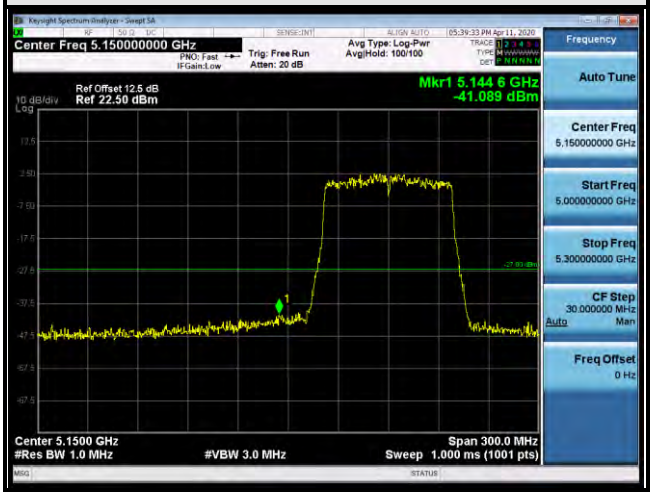
c. The necessary accessories enable the EUT in full functions.

3.2.7 TEST RESULTS

Ant 0

For U-NII-1:

SPECTRUM PLOT OF BANDEDGE	
802.11a Left Side	**802.11a Right Side**
	
802.11n20 Left Side	**802.11n20 Right Side**
	

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

For U-NII-2A:

SPECTRUM PLOT OF BANDEDGE	
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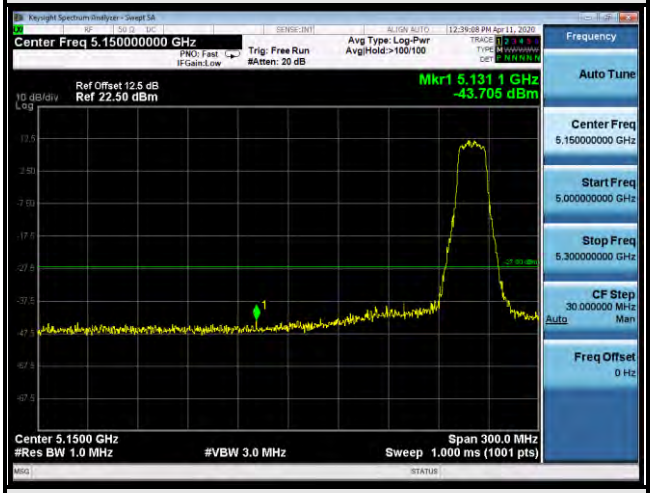	
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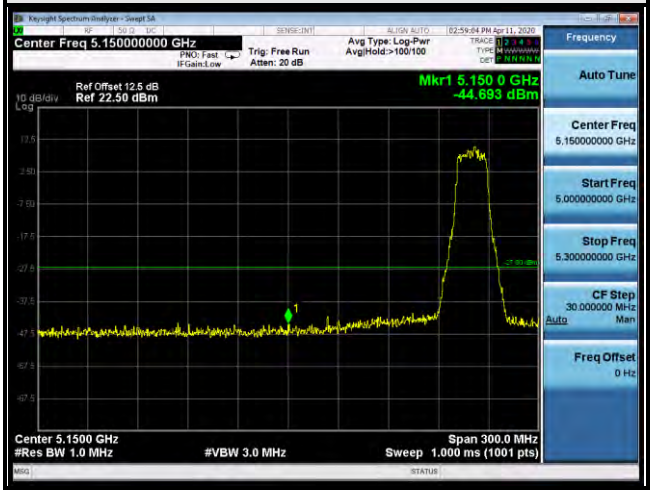	

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

For U-NII-2C:

SPECTRUM PLOT OF BANDEDGE

802.11a Left Side

802.11a Right Side

802.11n20 Left Side

802.11n20 Right Side

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

For U-NII-3:

SPECTRUM PLOT OF BANDEDGE	
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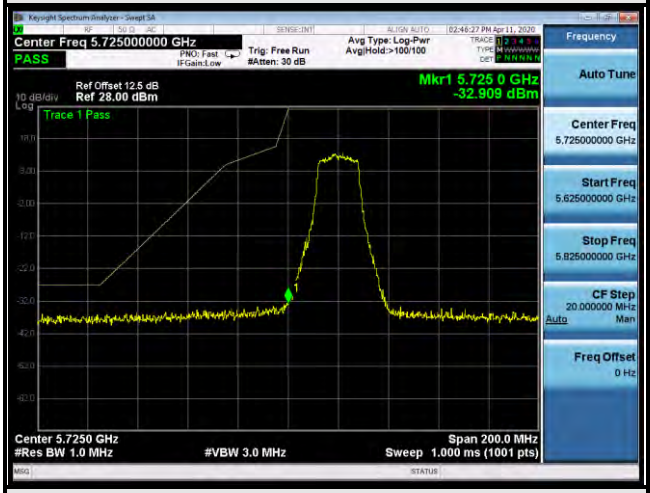
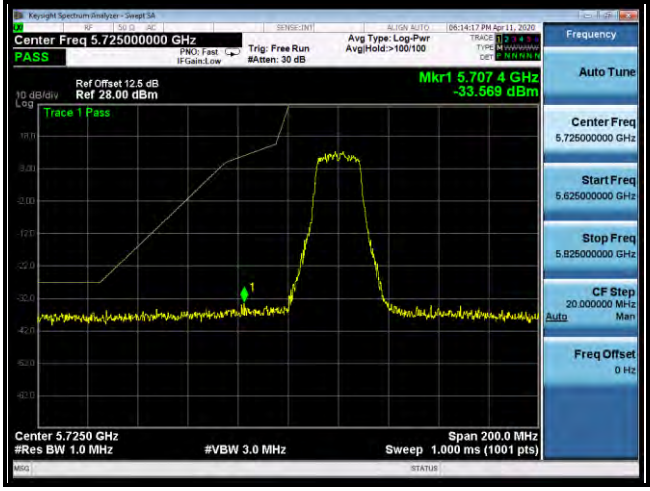
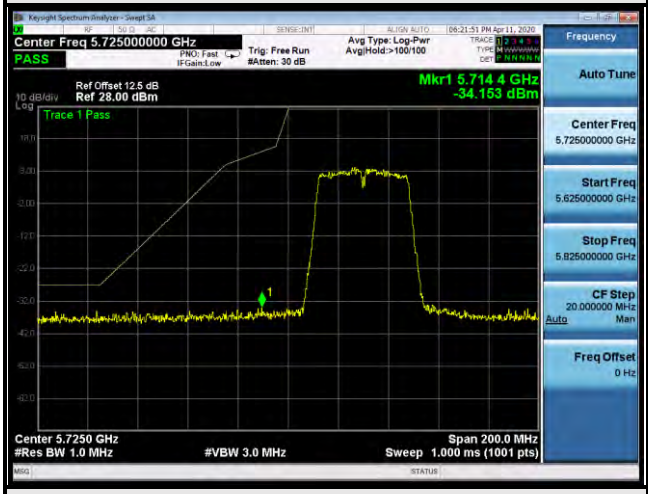
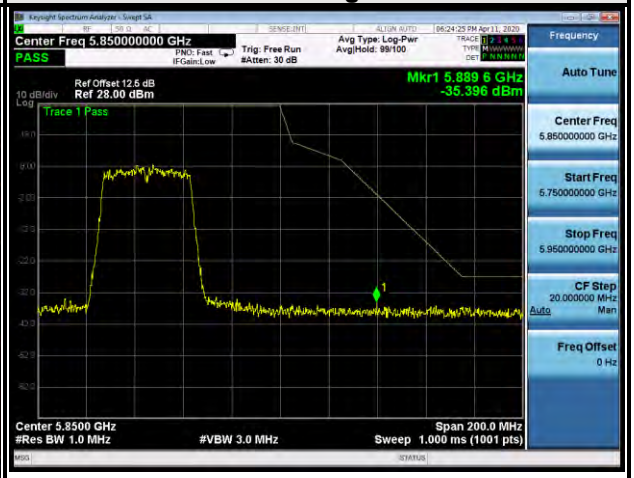
	
802.11n20 Left Side	802.11n20 Right Side
	

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

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For U-NII-1:

SPECTRUM PLOT OF BANDEDGE	
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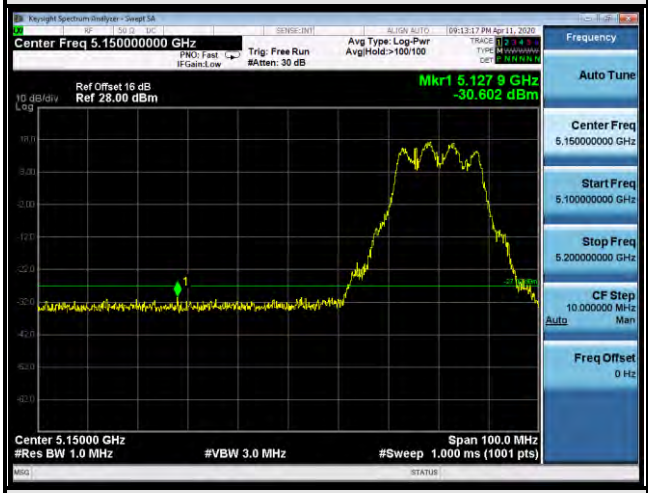
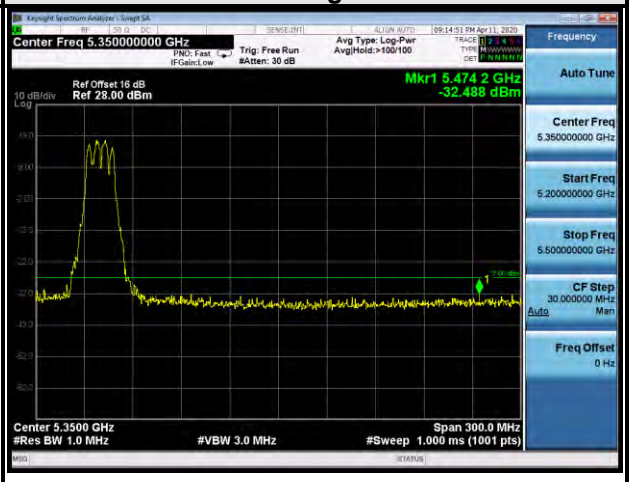
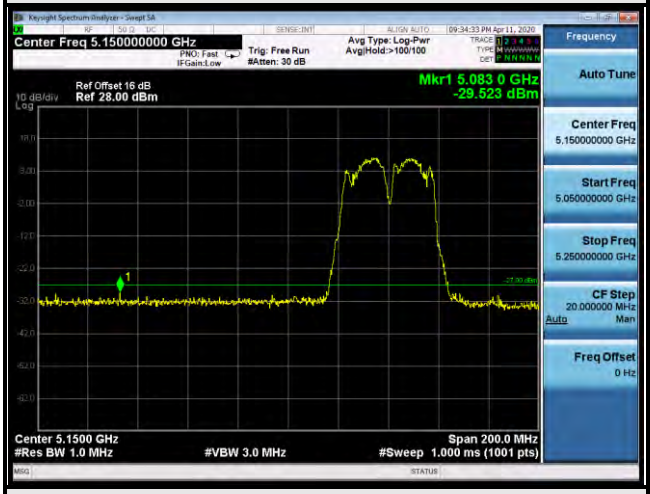
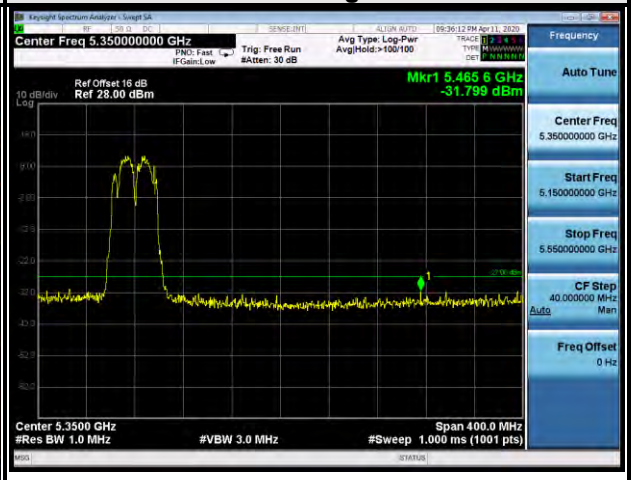
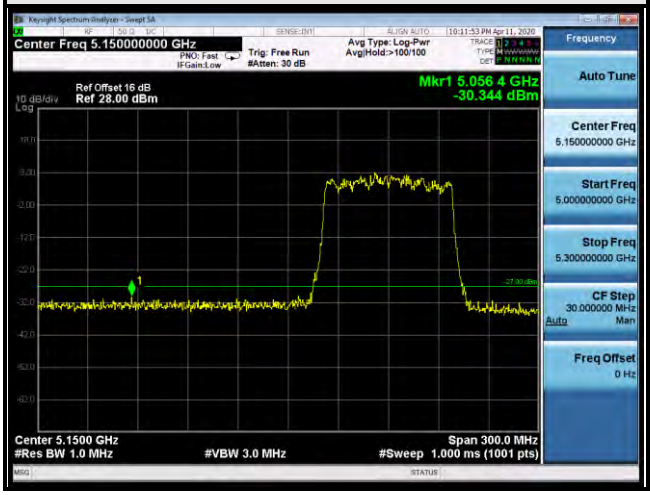
	
802.11n20 Left Side	802.11n20 Right Side
	

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

For U-NII-2A:

SPECTRUM PLOT OF BANDEDGE	
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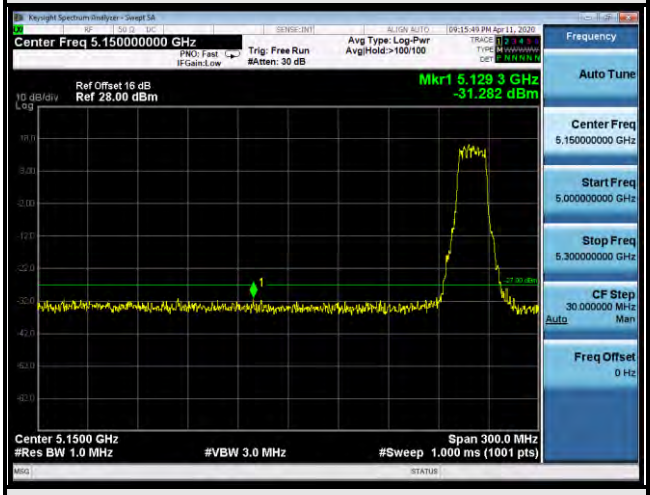
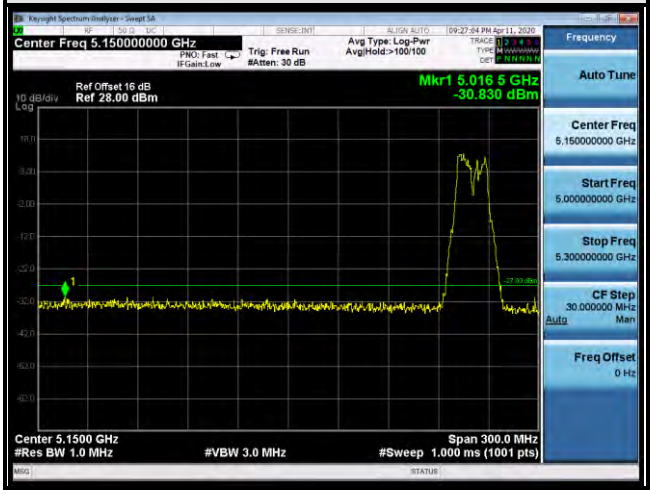
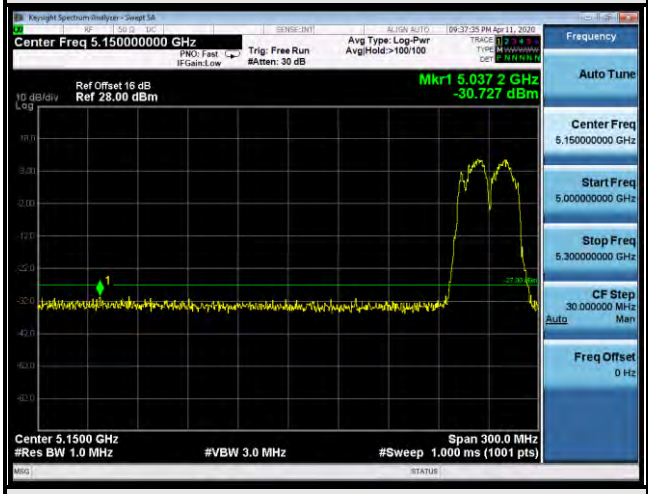
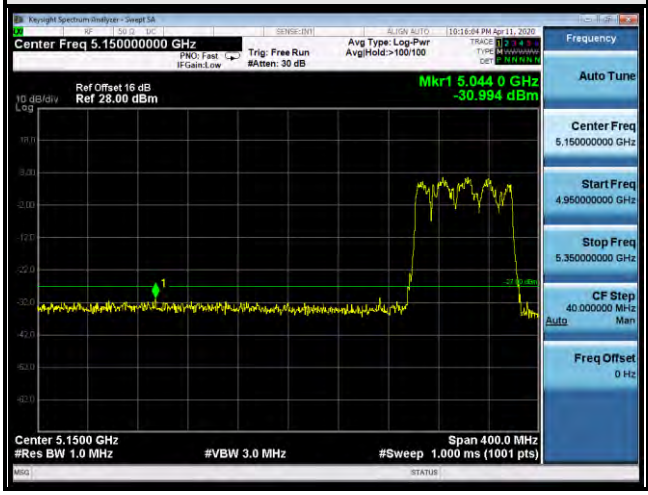
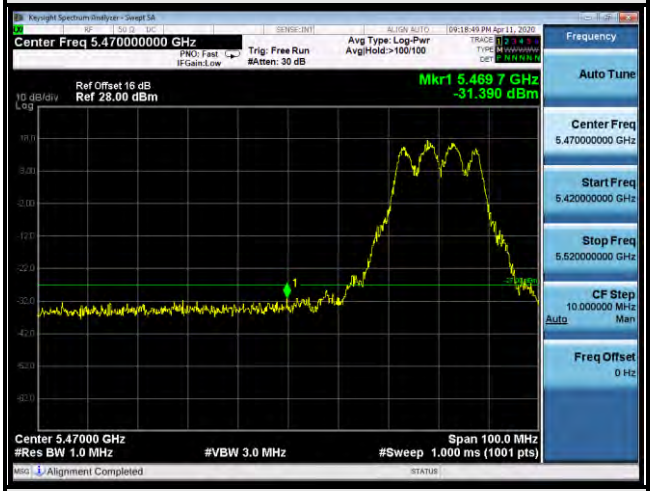
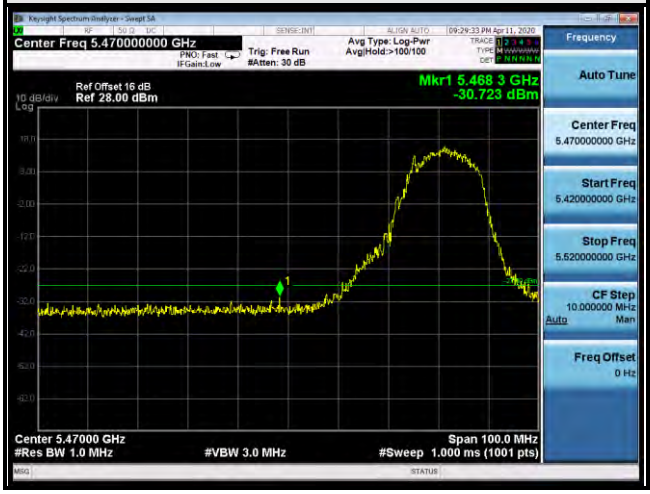
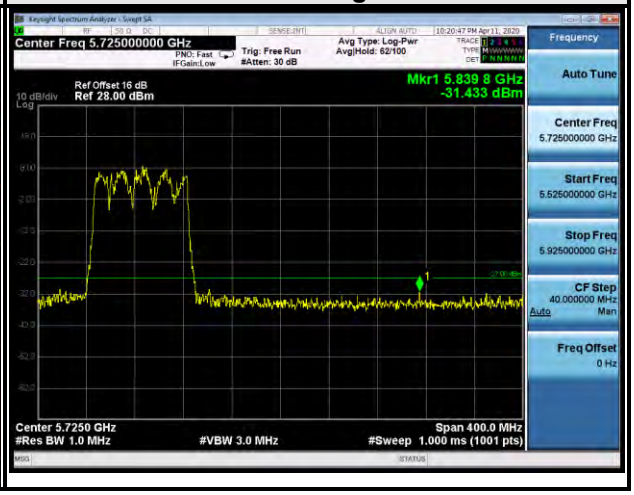
	
802.11n20 Left Side	802.11n20 Right Side
	

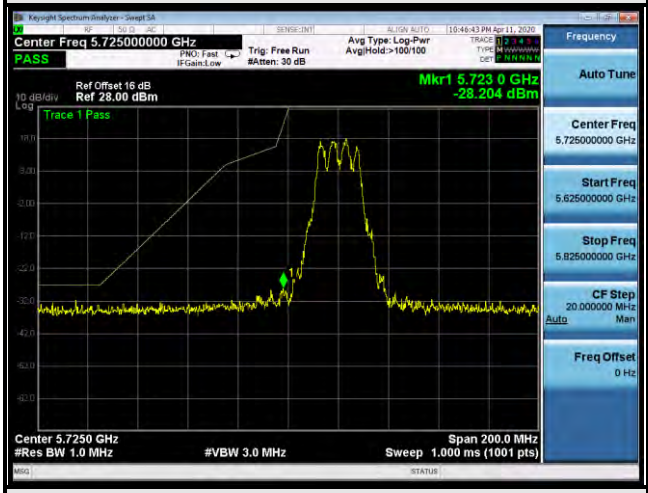
802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

For U-NII-2C:

SPECTRUM PLOT OF BANDEDGE	
802.11a Left Side	802.11a Right Side
	
802.11n20 Left Side	802.11n20 Right Side
	

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

For U-NII-3:

SPECTRUM PLOT OF BANDEDGE	
802.11a Left Side	802.11a Right Side
	
802.11n20 Left Side	802.11n20 Right Side
	

802.11n40 Left Side	802.11n40 Right Side
	
802.11ac80 Left Side	**802.11ac80 Right Side**
	

3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 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.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,20	Feb. 25,21
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,20	Feb. 25,21

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.3.3 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.

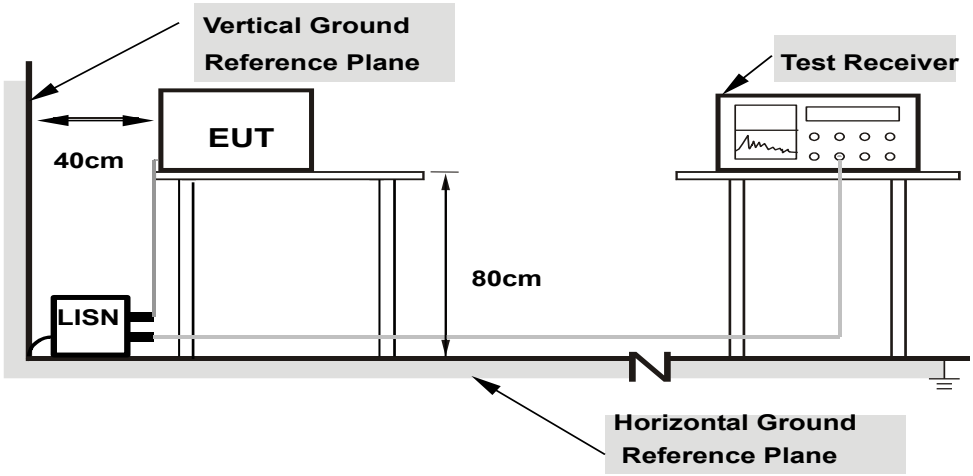
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 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).

3.3.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

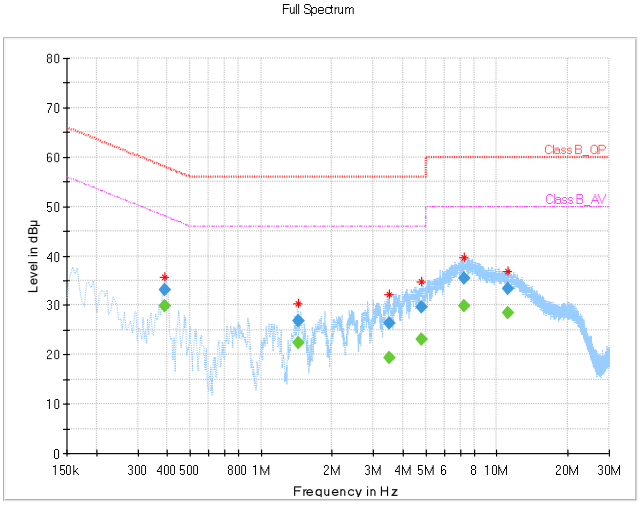
3.3.7 TEST RESULTS

CONDUCTED WORST-CASE DATA :

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23deg. C, 55RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.392000	---	29.78	48.02	-18.24	L	ON	10.0
0.392000	33.13	---	58.02	-24.89	L	ON	10.0
1.432000	---	22.44	46.00	-23.56	L	ON	10.1
1.432000	26.86	---	56.00	-29.14	L	ON	10.1
3.492000	---	19.46	46.00	-26.54	L	ON	10.2
3.492000	26.42	---	56.00	-29.58	L	ON	10.2
4.788000	---	23.19	46.00	-22.81	L	ON	10.2
4.788000	29.63	---	56.00	-26.37	L	ON	10.2
7.236000	---	29.90	50.00	-20.10	L	ON	10.3
7.236000	35.40	---	60.00	-24.60	L	ON	10.3
11.188000	---	28.55	50.00	-21.45	L	ON	10.5
11.188000	33.32	---	60.00	-26.68	L	ON	10.5

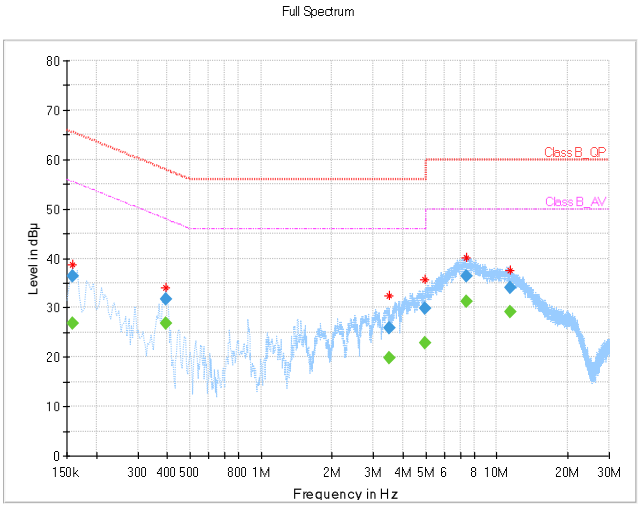
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
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	120Vac, 60Hz	Environmental Conditions	23deg. C, 55RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dB¦ìV)	CAverage (dB¦ìV)	Limit (dB¦ìV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000	---	26.84	55.57	-28.73	N	ON	9.9
0.158000	36.38	---	65.57	-29.19	N	ON	9.9
0.396000	---	26.77	47.94	-21.17	N	ON	9.9
0.396000	31.64	---	57.94	-26.29	N	ON	9.9
3.488000	---	19.75	46.00	-26.25	N	ON	10.1
3.488000	25.96	---	56.00	-30.04	N	ON	10.1
4.952000	---	22.93	46.00	-23.07	N	ON	10.1
4.952000	29.81	---	56.00	-26.19	N	ON	10.1
7.404000	---	31.19	50.00	-18.81	N	ON	10.2
7.404000	36.32	---	60.00	-23.68	N	ON	10.2
11.348000	---	29.11	50.00	-20.89	N	ON	10.3
11.348000	33.98	---	60.00	-26.02	N	ON	10.3

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 = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



3.4 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.4.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

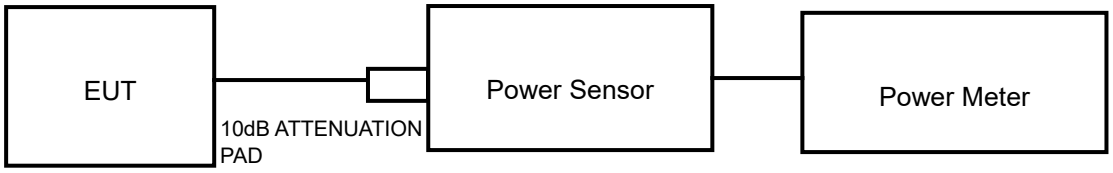
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)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

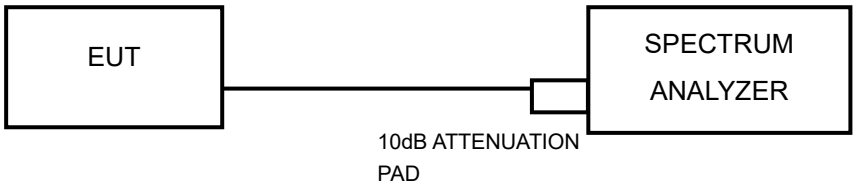
3.4.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

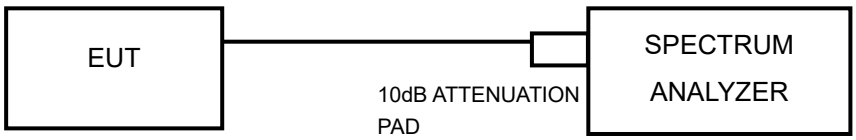
802.11a, 802.11n (20MHz), 802.11n (40MHz) TEST CONFIGURATION



11ac TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 26,20	Feb. 25,21
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 26,20	Feb. 25,21

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.4.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n (20MHz), 802.11n (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.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

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

3.4.7 TEST RESULTS

OUTPUT POWER:

SISO MODE:

ANT0

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	15.06	0	15.06	32.06	24	PASS
40	5200	15.21	0	15.21	33.19	24	PASS
48	5240	15.38	0	15.38	34.51	24	PASS
52	5260	15.31	0	15.31	33.96	24	PASS
60	5300	15.13	0	15.13	32.58	24	PASS
64	5320	15.18	0	15.18	32.96	24	PASS
100	5500	14.09	0	14.09	25.64	24	PASS
116	5580	14.13	0	14.13	25.88	24	PASS
140	5700	14.42	0	14.42	27.67	24	PASS
149	5745	15.44	0	15.44	34.99	30	PASS
157	5785	15.00	0	15.00	31.62	30	PASS
161	5805	14.31	0	14.31	26.98	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	13.22	0	13.22	20.99	24	PASS
40	5200	13.36	0	13.36	21.68	24	PASS
48	5240	13.60	0	13.60	22.91	24	PASS
52	5260	13.46	0	13.46	22.18	24	PASS
60	5300	13.30	0	13.30	21.38	24	PASS
64	5320	13.27	0	13.27	21.23	24	PASS
100	5500	13.09	0	13.09	20.37	24	PASS
116	5580	13.00	0	13.00	19.95	24	PASS
140	5700	13.40	0	13.40	21.88	24	PASS
149	5745	13.27	0	13.27	21.23	30	PASS
157	5785	12.90	0	12.90	19.50	30	PASS
161	5805	12.31	0	12.31	17.02	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	13.47	0	13.47	22.23	24	PASS
46	5230	13.76	0	13.76	23.77	24	PASS
54	5270	13.62	0	13.62	23.01	24	PASS
62	5310	13.46	0	13.46	22.18	24	PASS
102	5510	13.39	0	13.39	21.83	24	PASS
110	5550	13.25	0	13.25	21.13	24	PASS
134	5670	13.63	0	13.63	23.07	24	PASS
151	5755	13.64	0	13.64	23.12	30	PASS
159	5798	13.15	0	13.15	20.65	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	11.47	0	11.47	14.03	24	PASS
58	5290	11.46	0	11.46	14.00	24	PASS
106	5530	11.08	0	11.08	12.82	24	PASS
122	5610	11.14	0	11.14	13.00	24	PASS
155	5775	11.26	0	11.26	13.37	30	PASS

ANT1

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	14.91	0	14.91	30.97	24	PASS
40	5200	15.07	0	15.07	32.14	24	PASS
48	5240	15.16	0	15.16	32.81	24	PASS
52	5260	15.17	0	15.17	32.89	24	PASS
60	5300	15.17	0	15.17	32.89	24	PASS
64	5320	15.29	0	15.29	33.81	24	PASS
100	5500	14.23	0	14.23	26.49	24	PASS
116	5580	13.84	0	13.84	24.21	24	PASS
140	5700	14.79	0	14.79	30.13	24	PASS
149	5745	15.88	0	15.88	38.73	30	PASS
157	5785	15.59	0	15.59	36.22	30	PASS
161	5805	15.04	0	15.04	31.92	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	12.48	0	12.48	17.70	24	PASS
40	5200	12.75	0	12.75	18.84	24	PASS
48	5240	12.87	0	12.87	19.36	24	PASS
52	5260	13.15	0	13.15	20.65	24	PASS
60	5300	13.15	0	13.15	20.65	24	PASS
64	5320	13.14	0	13.14	20.61	24	PASS
100	5500	13.17	0	13.17	20.75	24	PASS
116	5580	12.91	0	12.91	19.54	24	PASS
140	5700	13.81	0	13.81	24.04	24	PASS
149	5745	13.95	0	13.95	24.83	30	PASS
157	5785	13.71	0	13.71	23.50	30	PASS
161	5805	13.33	0	13.33	21.53	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	13.11	0	13.11	20.46	24	PASS
46	5230	13.36	0	13.36	21.68	24	PASS
54	5270	13.46	0	13.46	22.18	24	PASS
62	5310	13.46	0	13.46	22.18	24	PASS
102	5510	13.41	0	13.41	21.93	24	PASS
110	5550	13.14	0	13.14	20.61	24	PASS
134	5670	14.11	0	14.11	25.76	24	PASS
151	5755	14.32	0	14.32	27.04	30	PASS
159	5798	13.97	0	13.97	24.95	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	10.95	0	10.95	12.45	24	PASS
58	5290	11.21	0	11.21	13.21	24	PASS
106	5530	11.00	0	11.00	12.59	24	PASS
122	5610	11.10	0	11.10	12.88	24	PASS
155	5775	11.99	0	11.99	15.81	30	PASS

MIMO MODE:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/ FAIL
		ANT 0	ANT 1						
36	5180	14.63	14.52	17.59	0	17.59	57.35	24	PASS
40	5200	14.85	14.72	17.80	0	17.80	60.20	24	PASS
48	5240	14.97	14.78	17.89	0	17.89	**61.47**	24	PASS
52	5260	14.85	14.84	17.86	0	17.86	**61.03**	24	PASS
60	5300	14.69	14.74	17.73	0	17.73	59.23	24	PASS
64	5320	14.78	14.85	17.83	0	17.83	60.61	24	PASS
100	5500	13.62	13.74	16.69	0	16.69	46.67	24	PASS
116	5580	13.67	13.51	16.60	0	16.60	45.72	24	PASS
140	5700	14.07	14.46	17.28	0	17.28	**53.45**	24	PASS
149	5745	14.83	15.47	18.17	0	18.17	**65.65**	30	PASS
157	5785	14.61	15.14	17.89	0	17.89	61.57	30	PASS
161	5805	14.21	14.98	17.62	0	17.62	57.84	30	PASS

802.11n（20MHz）

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/ FAIL
		ANT 0	ANT 1						
36	5180	12.88	12.35	15.63	0	15.63	36.59	24	PASS
40	5200	12.98	12.43	15.72	0	15.72	37.36	24	PASS
48	5240	13.14	12.50	15.84	0	15.84	38.39	24	PASS
52	5260	13.03	12.71	15.88	0	15.88	38.75	24	PASS
60	5300	12.86	12.62	15.75	0	15.75	37.60	24	PASS
64	5320	12.80	12.68	15.75	0	15.75	37.59	24	PASS
100	5500	12.68	12.78	15.74	0	15.74	37.50	24	PASS
116	5580	12.59	12.47	15.54	0	15.54	35.82	24	PASS
140	5700	12.98	13.42	16.22	0	16.22	41.84	24	PASS
149	5745	12.82	13.47	16.17	0	16.17	41.38	30	PASS
157	5785	12.50	13.26	15.91	0	15.91	38.97	30	PASS
161	5805	12.05	12.99	15.56	0	15.56	35.94	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/ FAIL
		ANT 0	ANT 1						
38	5190	13.14	12.79	15.98	0	15.98	39.62	24	PASS
46	5230	13.44	12.92	16.20	0	16.20	41.67	24	PASS
54	5270	13.18	13.04	16.12	0	16.12	40.93	24	PASS
62	5310	13.00	12.99	16.01	0	16.01	39.86	24	PASS
102	5510	12.93	12.99	15.97	0	15.97	39.54	24	PASS
110	5550	12.87	12.71	15.80	0	15.80	38.03	24	PASS
134	5670	13.25	13.69	16.49	0	16.49	44.52	24	PASS
151	5755	13.18	13.90	16.57	0	16.57	45.34	30	PASS
159	5798	12.77	13.61	16.22	0	16.22	41.88	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/ FAIL
		ANT 0	ANT 1						
42	5210	11.00	10.75	13.89	0	13.89	24.47	24	PASS
58	5290	10.96	10.67	13.83	0	13.83	24.14	24	PASS
106	5530	10.72	10.72	13.73	0	13.73	23.61	24	PASS
122	5610	10.84	10.69	13.78	0	13.78	23.86	24	PASS
155	5775	10.86	11.59	14.25	0	14.25	26.61	30	PASS

99% OCCUPIED BANDWIDTH & 26dB BANDWIDTH/6dB BANDWIDTH DATA FROM:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	16.68	23.12	PASS
40	5200	16.68	22.51	PASS
48	5240	16.80	22.46	PASS
52	5260	16.68	22.99	PASS
60	5300	16.80	23.48	PASS
64	5320	16.74	22.52	PASS
100	5500	16.80	23.95	PASS
116	5580	16.80	23.48	PASS
140	5700	16.74	21.84	PASS
CHANNEL	**CHANNEL FREQUENCY**	**99% OCCUPIED BANDWIDTH**	**6dB BANDWIDTH**	**PASS/FAIL**
149	5745	16.80	15.64	PASS
157	5785	16.80	15.08	PASS
161	5805	16.68	15.53	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	17.82	24.22	PASS
40	5200	17.94	24.20	PASS
48	5240	17.88	23.10	PASS
52	5260	17.88	24.10	PASS
60	5300	17.88	24.61	PASS
64	5320	17.82	23.95	PASS
100	5500	17.82	23.60	PASS
116	5580	17.94	23.45	PASS
140	5700	17.88	24.57	PASS
CHANNEL	**CHANNEL FREQUENCY**	**99% OCCUPIED BANDWIDTH**	**6dB BANDWIDTH**	**PASS/FAIL**
149	5745	17.88	16.67	PASS
157	5785	17.94	15.86	PASS
161	5805	17.88	16.44	PASS

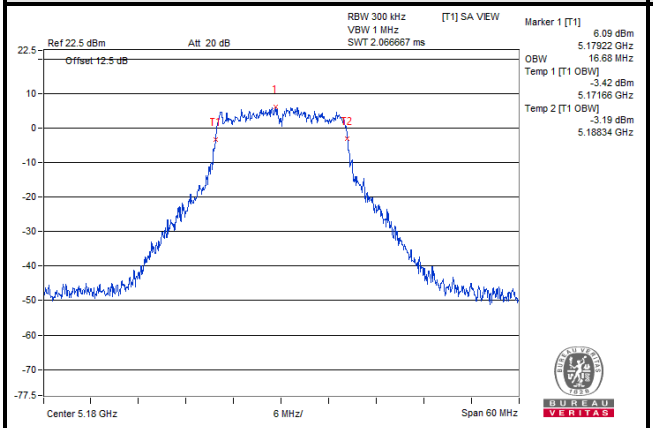
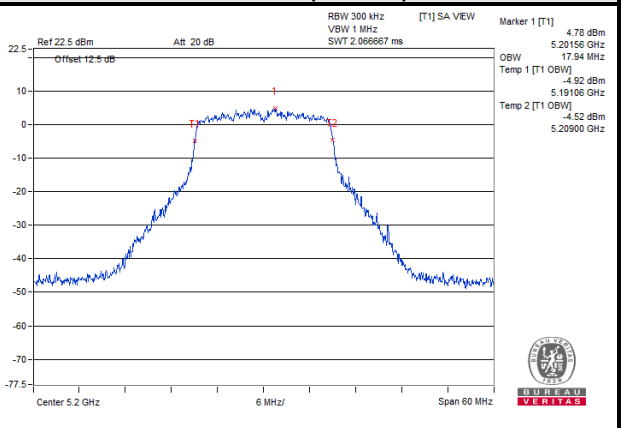
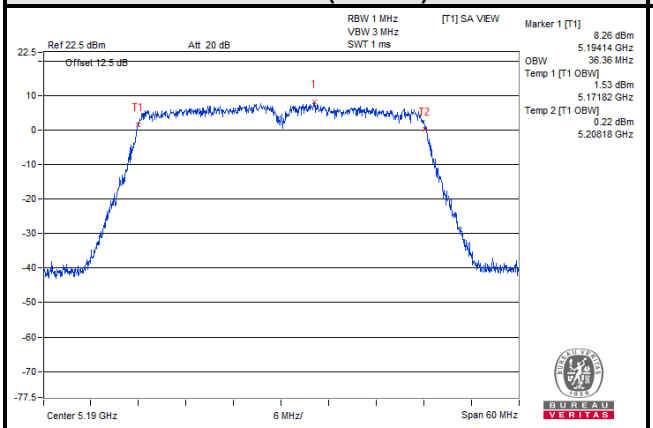
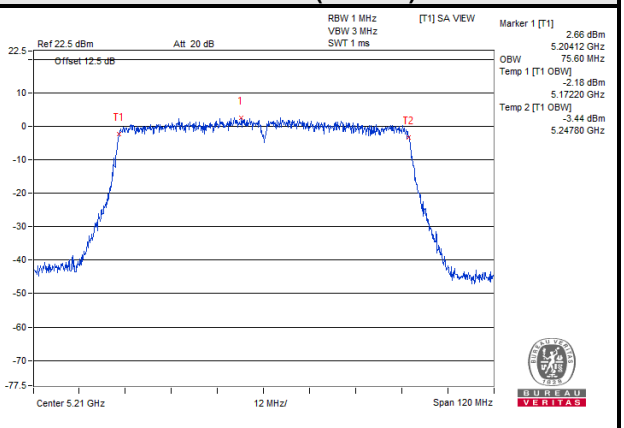
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
38	5190	36.36	41.72	PASS
46	5230	36.42	41.77	PASS
54	5270	36.42	41.61	PASS
62	5310	36.48	41.74	PASS
102	5510	36.42	41.82	PASS
110	5550	36.48	41.66	PASS
134	5670	36.42	42.09	PASS
CHANNEL	**CHANNEL FREQUENCY**	**99% OCCUPIED BANDWIDTH**	**6dB BANDWIDTH**	**PASS/FAIL**
151	5755	36.42	35.43	PASS
159	5795	36.48	35.73	PASS

802.11ac (80MHz)

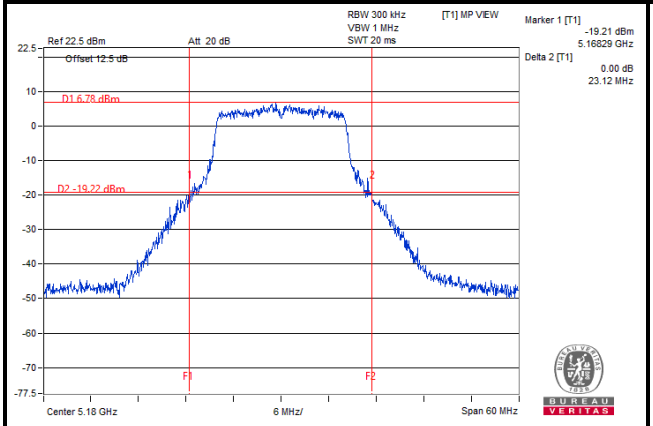
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
42	5210	75.60	83.40	PASS
58	5290	75.60	83.88	PASS
106	5530	75.72	83.39	PASS
122	5610	75.60	83.71	PASS
CHANNEL	**CHANNEL FREQUENCY**	**99% OCCUPIED BANDWIDTH**	**6dB BANDWIDTH**	**PASS/FAIL**
155	5775	75.72	75.21	PASS

For U-NII-1:

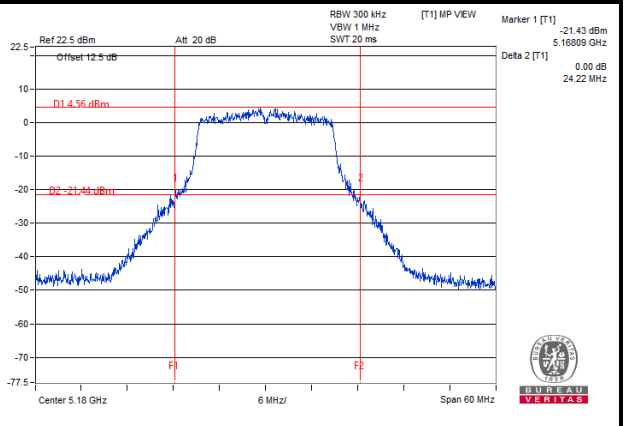
SPECTRUM PLOT OF WORST VALUE of 99% OCCUPIED BANDWIDTH	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

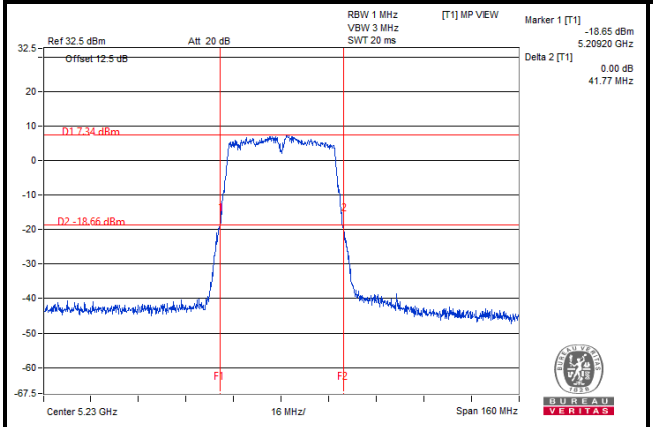
802.11a



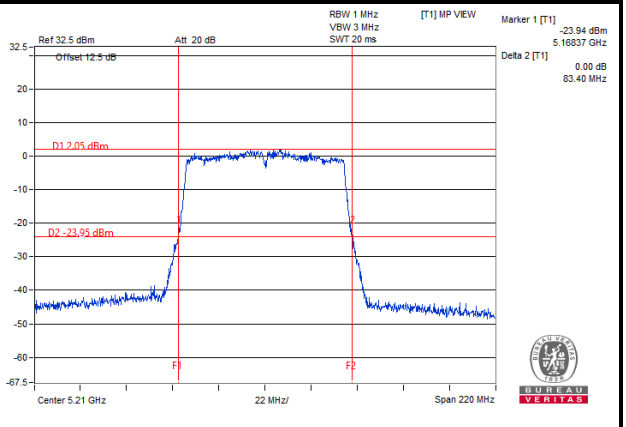
802.11n (20MHz)



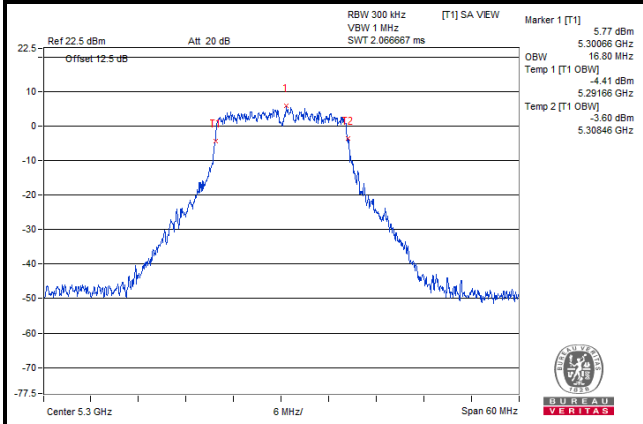
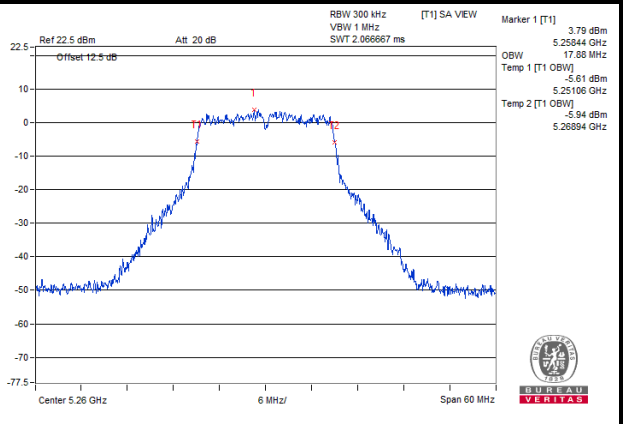
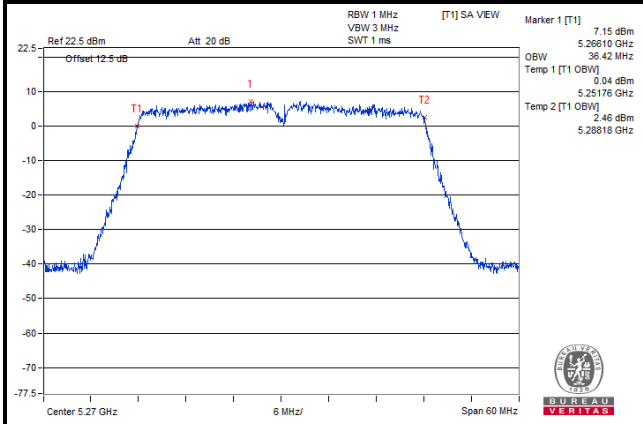
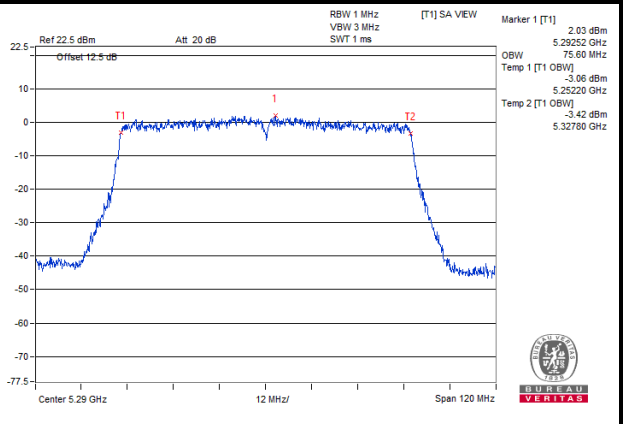
802.11n (40MHz)



802.11ac (80MHz)

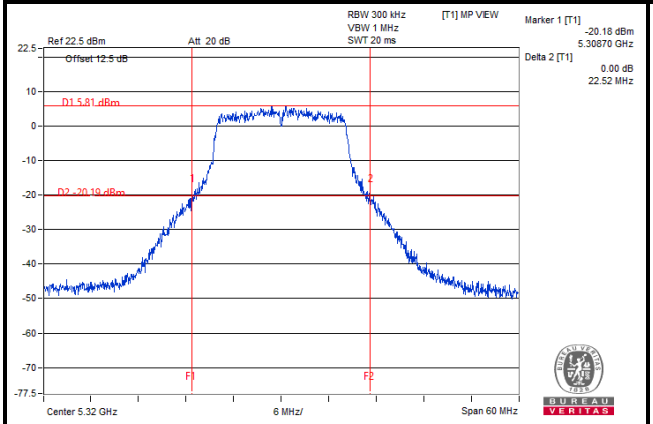


For U-NII-2A:

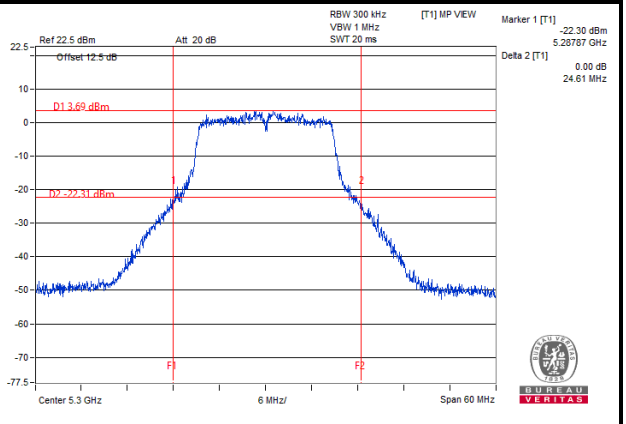
SPECTRUM PLOT OF WORST VALUE of 99% OCCUPIED BANDWIDTH	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

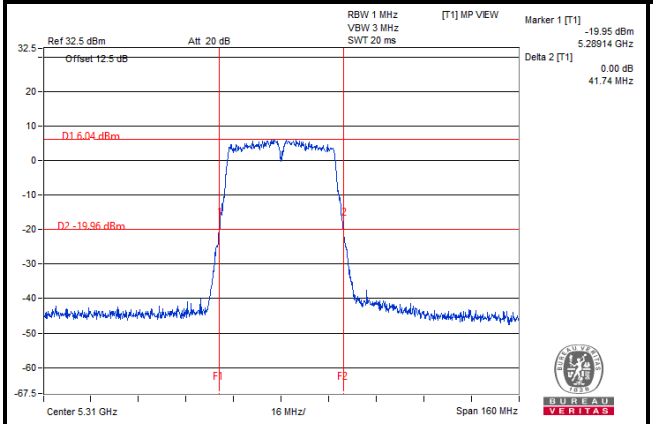
802.11a



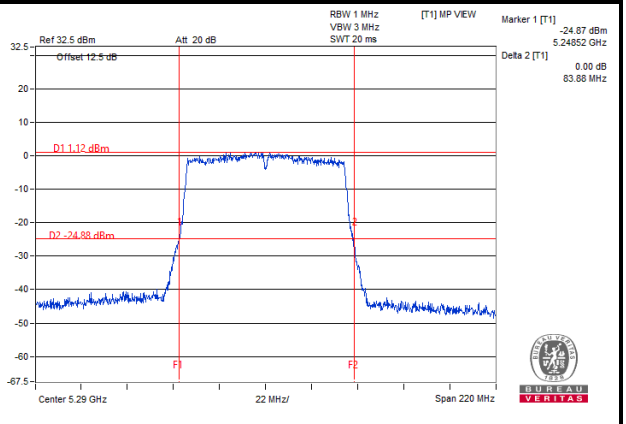
802.11n (20MHz)



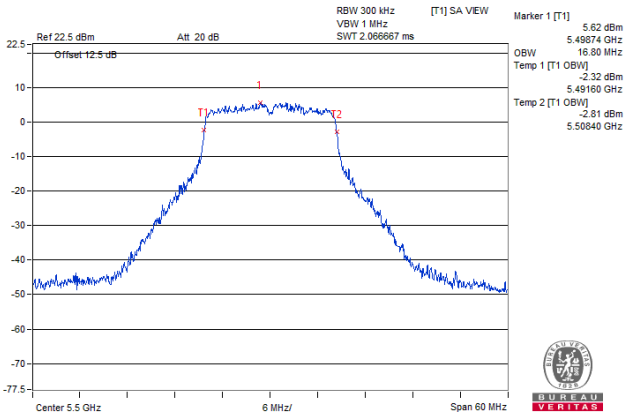
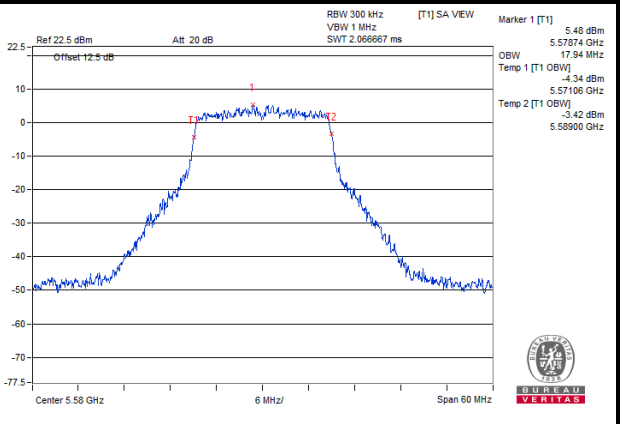
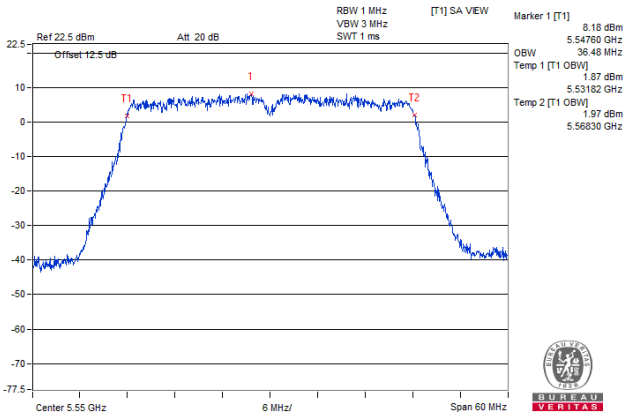
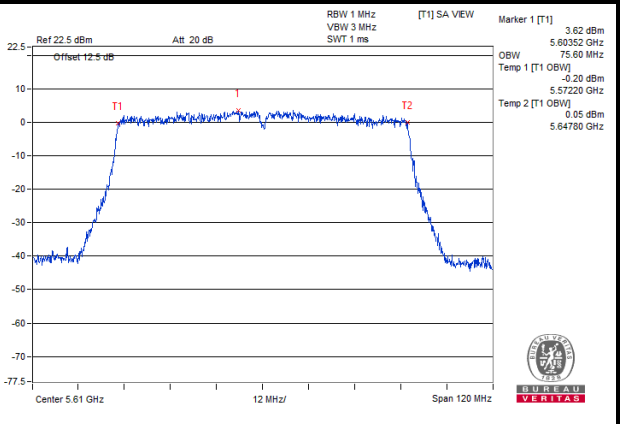
802.11n (40MHz)



802.11ac (80MHz)

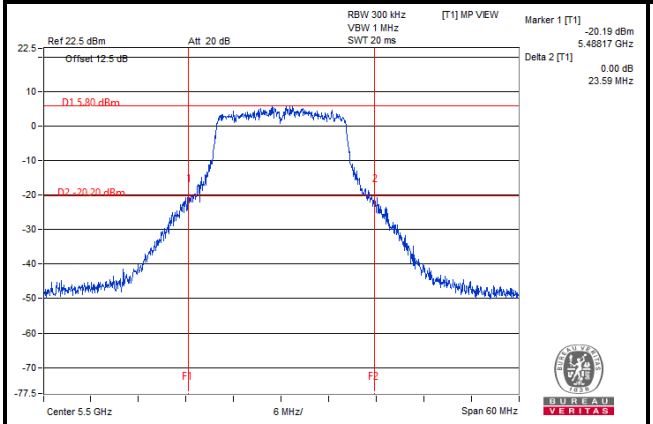


For U-NII-2C:

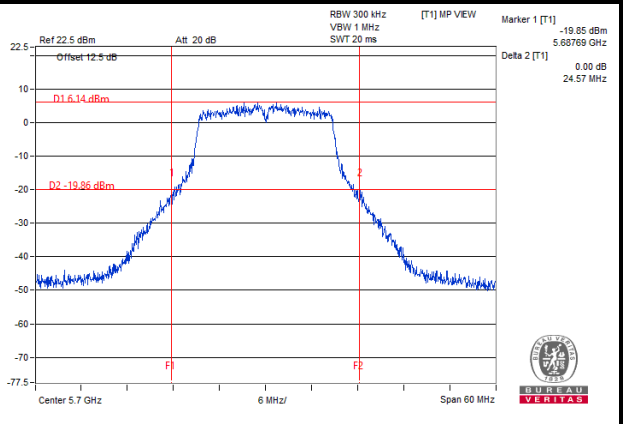
SPECTRUM PLOT OF WORST VALUE of 99% OCCUPIED BANDWIDTH	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

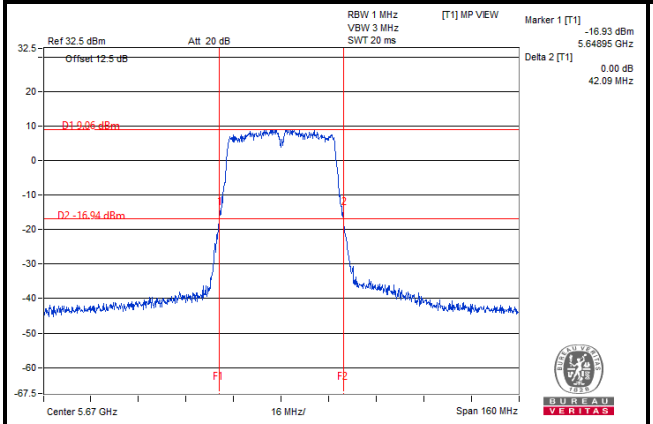
802.11a



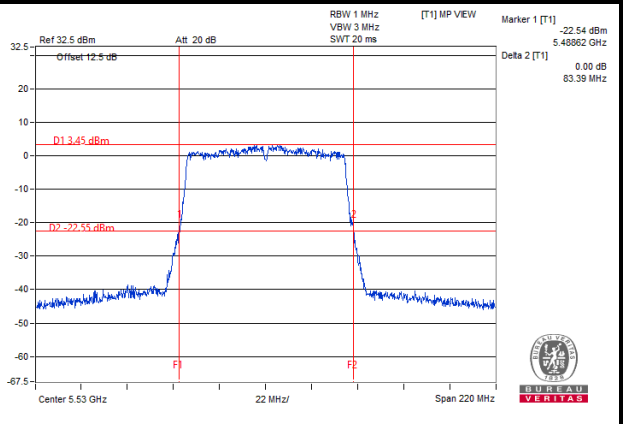
802.11n (20MHz)



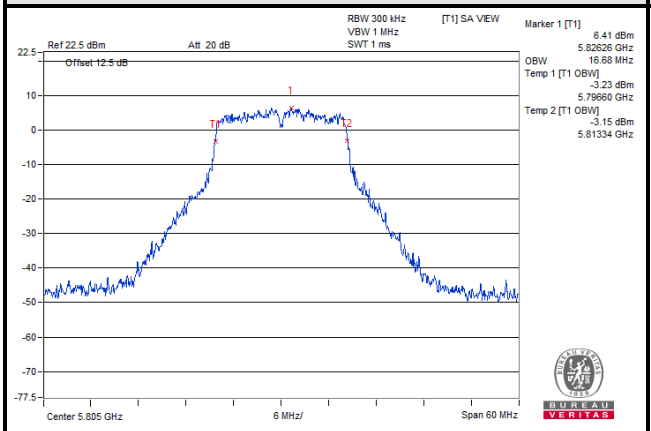
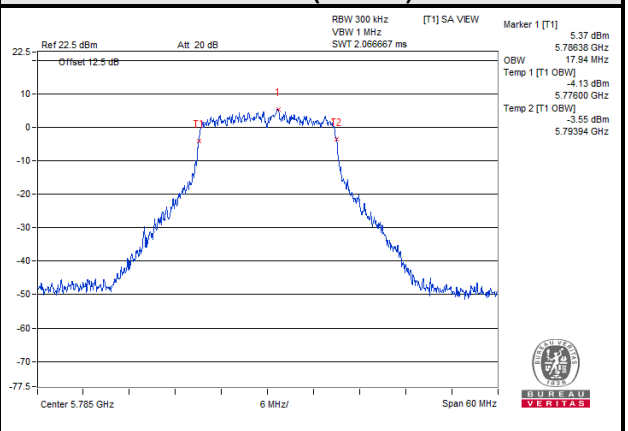
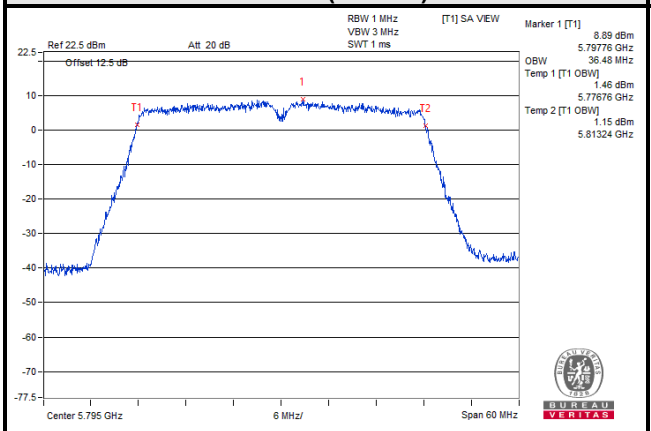
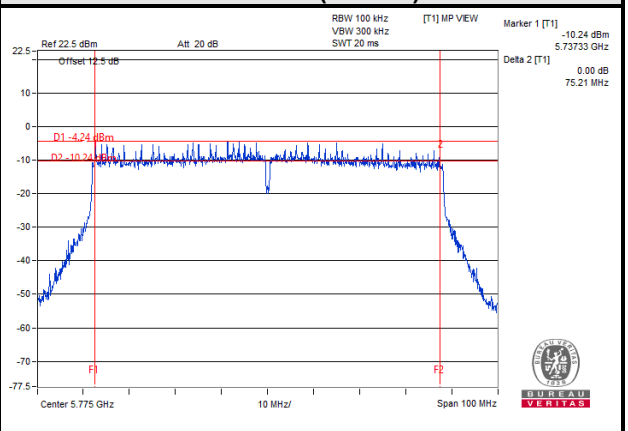
802.11n (40MHz)



802.11ac (80MHz)

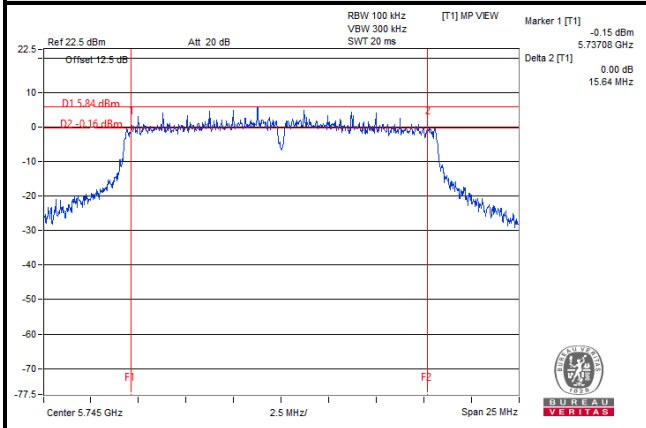


For U-NII-3:

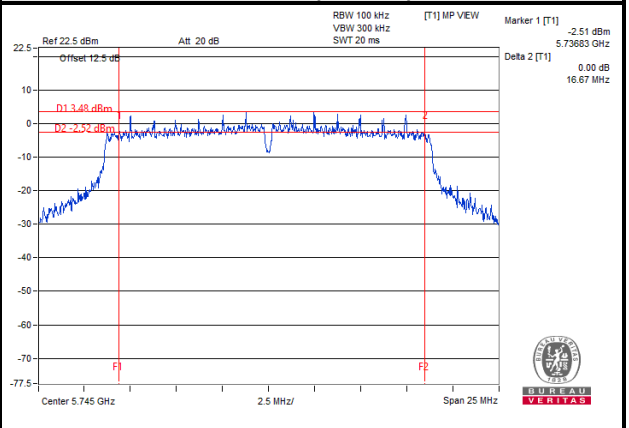
SPECTRUM PLOT OF WORST VALUE of 99% OCCUPIED BANDWIDTH	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

SPECTRUM PLOT OF WORST VALUE of 6dB Bandwidth

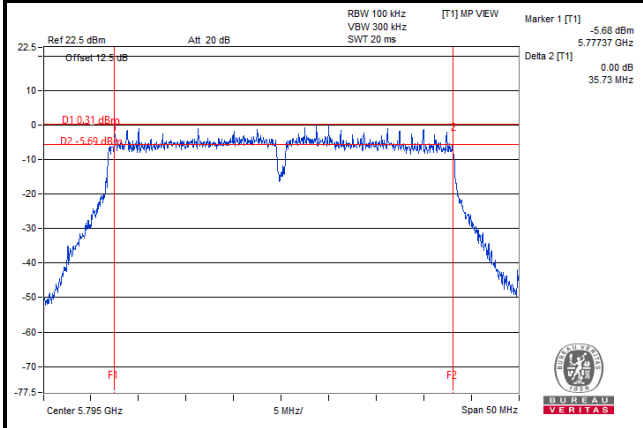
802.11a



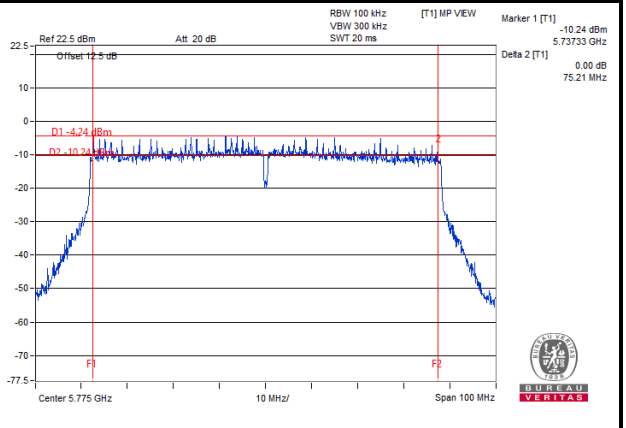
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

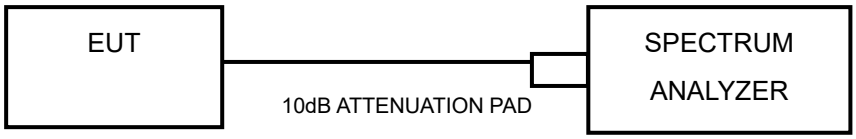


3.5 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURES

Using method SA-2

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

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.5.7 TEST RESULTS

SISO MODE:

For U-NII-1 & U-NII-2A& U-NII-2C:

802.11a ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	3.23	0	3.23	11	PASS
40	5200	3.28	0	3.28	11	PASS
48	5240	3.02	0	3.02	11	PASS
52	5260	2.73	0	2.73	11	PASS
60	5300	2.61	0	2.61	11	PASS
64	5320	2.71	0	2.71	11	PASS
100	5500	2.59	0	2.59	11	PASS
116	5580	3.38	0	3.38	11	PASS
140	5700	4.08	0	4.08	11	PASS

802.11a ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	3.60	0	3.60	11	PASS
40	5200	3.52	0	3.52	11	PASS
48	5240	3.20	0	3.20	11	PASS
52	5260	3.13	0	3.13	11	PASS
60	5300	3.12	0	3.12	11	PASS
64	5320	3.23	0	3.23	11	PASS
100	5500	3.06	0	3.06	11	PASS
116	5580	3.46	0	3.46	11	PASS
140	5700	3.80	0	3.80	11	PASS

802.11n(20MHz) ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	1.21	0	1.21	11	PASS
40	5200	1.04	0	1.04	11	PASS
48	5240	0.71	0	0.71	11	PASS
52	5260	0.50	0	0.50	11	PASS
60	5300	0.17	0	0.17	11	PASS
64	5320	0.11	0	0.11	11	PASS
100	5500	1.42	0	1.42	11	PASS
116	5580	2.12	0	2.12	11	PASS
140	5700	2.56	0	2.56	11	PASS

802.11n (20MHz) ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	1.11	0	1.11	11	PASS
40	5200	1.14	0	1.14	11	PASS
48	5240	0.70	0	0.70	11	PASS
52	5260	0.93	0	0.93	11	PASS
60	5300	0.76	0	0.76	11	PASS
64	5320	0.61	0	0.61	11	PASS
100	5500	1.85	0	1.85	11	PASS
116	5580	2.27	0	2.27	11	PASS
140	5700	2.64	0	2.64	11	PASS

802.11n (40MHz) ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
38	5190	-1.66	0	-1.66	11	PASS
46	5230	-1.68	0	-1.68	11	PASS
54	5270	-2.26	0	-2.26	11	PASS
62	5310	-2.61	0	-2.61	11	PASS
102	5510	-1.12	0	-1.12	11	PASS
110	5550	-0.65	0	-0.65	11	PASS
134	5670	-0.16	0	-0.16	11	PASS

802.11n (40MHz) ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
38	5190	-1.90	0	-1.90	11	PASS
46	5230	-1.95	0	-1.95	11	PASS
54	5270	-1.96	0	-1.96	11	PASS
62	5310	-2.52	0	-2.52	11	PASS
102	5510	-1.07	0	-1.07	11	PASS
110	5550	-1.09	0	-1.09	11	PASS
134	5670	-0.13	0	-0.13	11	PASS

802.11ac (80MHz) ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
42	5210	-6.94	0	-6.94	11	PASS
58	5290	-7.65	0	-7.65	11	PASS
106	5530	-6.10	0	-6.10	11	PASS
122	5610	-5.51	0	-5.51	11	PASS

802.11ac (80MHz) ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
42	5210	-6.81	0	-6.81	11	PASS
58	5290	-7.56	0	-7.56	11	PASS
106	5530	-6.21	0	-6.21	11	PASS
122	5610	-5.97	0	-5.97	11	PASS

For U-NII-3:

Note: dBm/500kHz= dBm/MHz+10*log(0.5/1)= dBm/MHz-3.01

802.11a ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	-0.12	2.10	0	2.10	-0.12	PASS
157	5785	-0.60	1.62	0	1.62	-0.60	PASS
161	5805	-1.50	0.72	0	0.72	-1.50	PASS

802.11a ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	0.21	2.43	0	2.43	30	PASS
157	5785	-0.26	1.96	0	1.96	30	PASS
161	5805	-0.61	1.61	0	1.61	30	PASS

802.11n (20MHz) ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	-2.09	0.13	0	0.13	30	PASS
157	5785	-2.98	-0.76	0	-0.76	30	PASS
161	5805	-3.50	-1.28	0	-1.28	30	PASS

802.11n (20MHz) ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	-1.55	0.67	0	0.67	30	PASS
157	5785	-2.31	-0.09	0	-0.09	30	PASS
161	5805	-2.61	-0.39	0	-0.39	30	PASS

802.11n (40MHz) ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
151	5755	-5.06	-2.84	0	-2.84	30	PASS
159	5795	-5.84	-3.62	0	-3.62	30	PASS

802.11n (40MHz) ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
151	5755	-5.02	-2.80	0	-2.80	30	PASS
159	5795	-5.47	-3.25	0	-3.25	30	PASS

802.11ac (80MHz) ANT0

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
155	5775	-10.29	-8.07	0	-8.07	30	PASS

802.11ac (80MHz) ANT1

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
155	5775	-9.74	-7.52	0	-7.52	30	PASS

MIMO MODE:

For U-NII-1 & U-NII-2A & U-NII-2C:
802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
36	5180	2.53	3.31	5.95	0	5.95	11	PASS
40	5200	2.56	3.10	5.85	0	5.85	11	PASS
48	5240	2.43	2.69	5.57	0	5.57	11	PASS
52	5260	2.22	2.78	5.52	0	5.52	11	PASS
60	5300	2.15	2.54	5.36	0	5.36	11	PASS
64	5320	2.29	2.64	5.48	0	5.48	11	PASS
100	5500	1.97	2.73	5.38	0	5.38	11	PASS
116	5580	3.07	2.99	6.04	0	6.04	11	PASS
140	5700	3.30	3.20	6.26	0	6.26	11	PASS

Note: N_{ANT} = 2, N_{SS}=2, Directional gain = G_{ANT} + 10 log(N_{ANT}/ N_{SS}) dBi = -4.72dBi < 6dBi, density limit shall not be reduced.

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
36	5180	0.33	0.67	3.51	0	3.51	11	PASS
40	5200	0.28	0.46	3.38	0	3.38	11	PASS
48	5240	0.25	0.33	3.30	0	3.30	11	PASS
52	5260	0.22	0.46	3.35	0	3.35	11	PASS
60	5300	-0.12	0.25	3.08	0	3.08	11	PASS
64	5320	-0.06	0.29	3.13	0	3.13	11	PASS
100	5500	0.77	1.44	4.13	0	4.13	11	PASS
116	5580	2.04	1.82	4.94	0	4.94	11	PASS
140	5700	1.95	2.18	5.08	0	5.08	11	PASS

Note: N_{ANT} = 2, N_{SS}=2, Directional gain = G_{ANT} + 10 log(N_{ANT}/ N_{SS}) dBi = -4.72dBi < 6dBi, density limit shall not be reduced.

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
38	5190	-2.28	-1.88	0.93	0	0.93	11	PASS
46	5230	-2.42	-2.00	0.81	0	0.81	11	PASS
54	5270	-2.70	-2.20	0.57	0	0.57	11	PASS
62	5310	-3.08	-2.42	0.27	0	0.27	11	PASS
102	5510	-1.76	-1.49	1.39	0	1.39	11	PASS
110	5550	-1.37	-1.40	1.63	0	1.63	11	PASS
134	5670	-0.43	-0.21	2.69	0	2.69	11	PASS

Note: N_{ANT} = 2, N_{SS}=2, Directional gain = G_{ANT} + 10 log(N_{ANT}/ N_{SS}) dBi = -4.72dBi < 6dBi, density limit shall not be reduced.

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
42	5210	-7.56	-6.90	-4.21	0	-4.21	11	PASS
58	5290	-8.00	-7.57	-4.77	0	-4.77	11	PASS
106	5530	-6.58	-6.52	-3.54	0	-3.54	11	PASS
122	5610	-6.01	-5.99	-2.99	0	-2.99	11	PASS

Note: N_{ANT} = 2, N_{SS}=2, Directional gain = G_{ANT} + 10 log(N_{ANT}/ N_{SS}) dBi = -4.72dBi < 6dBi, density limit shall not be reduced.

For U-NII-3:

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
		Chain0	Chain1						
149	5745	-0.33	-0.16	2.77	4.98	0	4.98	30	PASS
157	5785	-1.29	-0.15	2.33	4.55	0	4.55	30	PASS
161	5805	-2.02	-1.11	1.47	3.69	0	3.69	30	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
		Chain0	Chain1						
149	5745	-2.49	-2.62	0.46	2.67	0	2.67	30	PASS
157	5785	-3.31	-2.68	0.03	2.25	0	2.25	30	PASS
161	5805	-4.07	-3.32	-0.67	1.55	0	1.55	30	PASS

802.11n (40MHz)

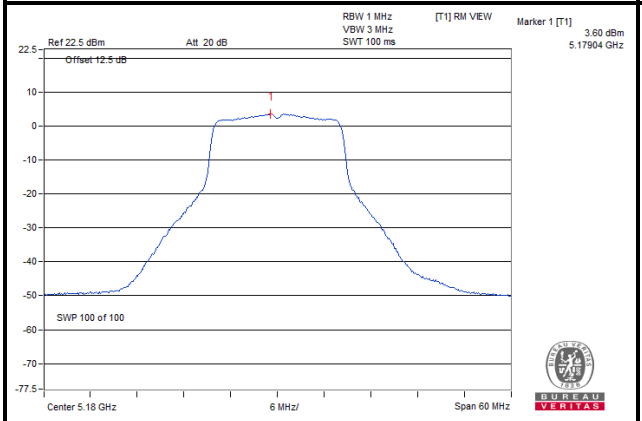
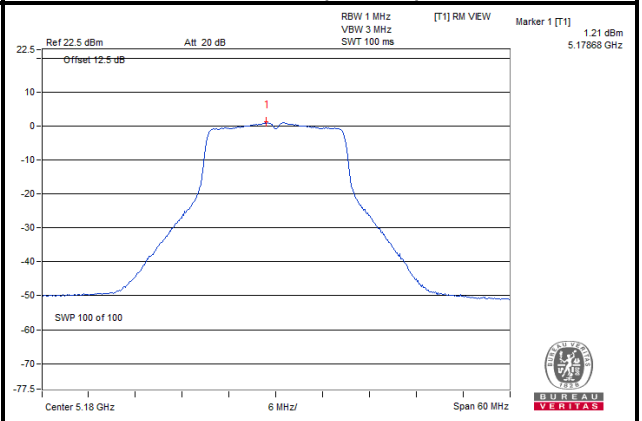
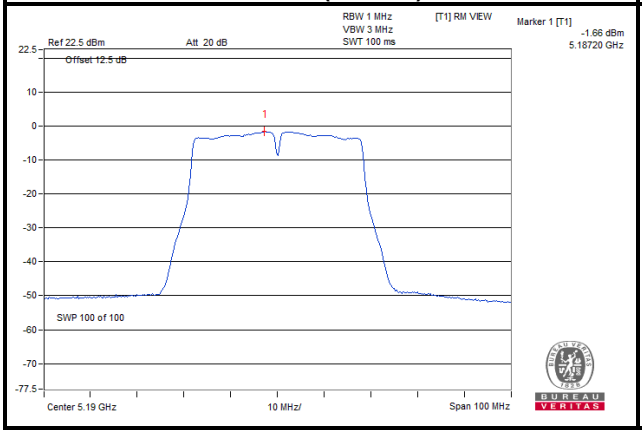
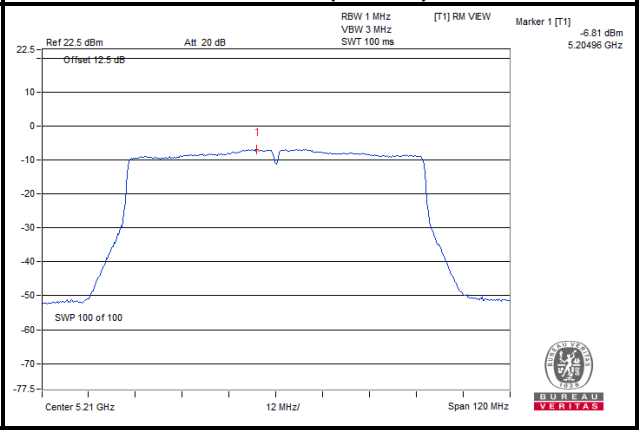
CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
		Chain0	Chain1						
151	5755	-5.63	-5.04	-2.31	-0.10	0	-0.10	30	PASS
159	5795	-6.40	-5.48	-2.91	-0.69	0	-0.69	30	PASS

802.11ac (80MHz)

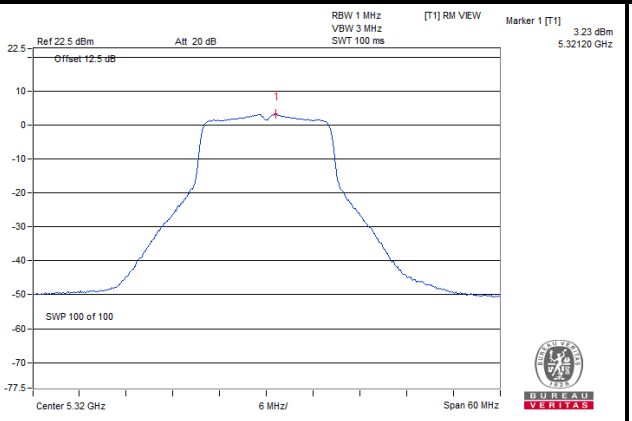
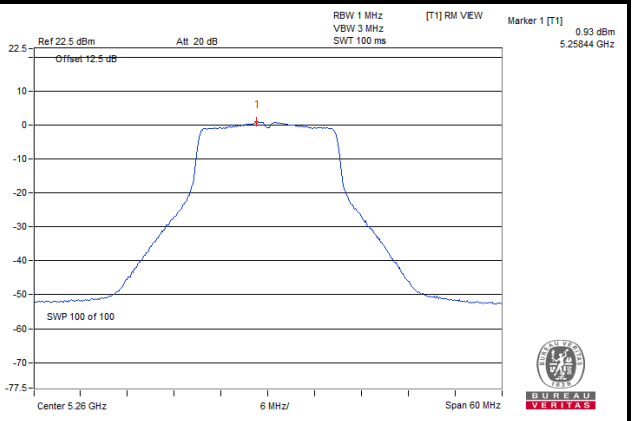
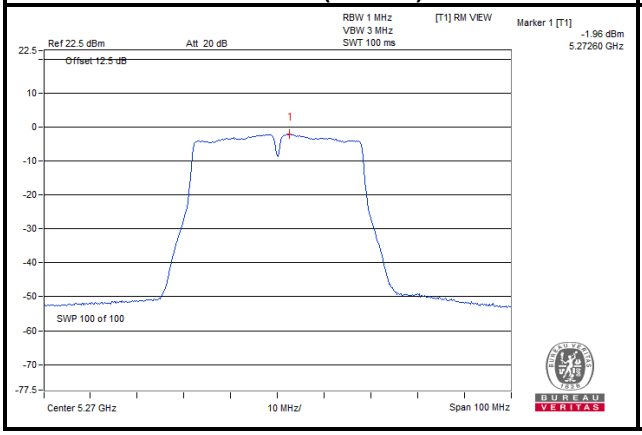
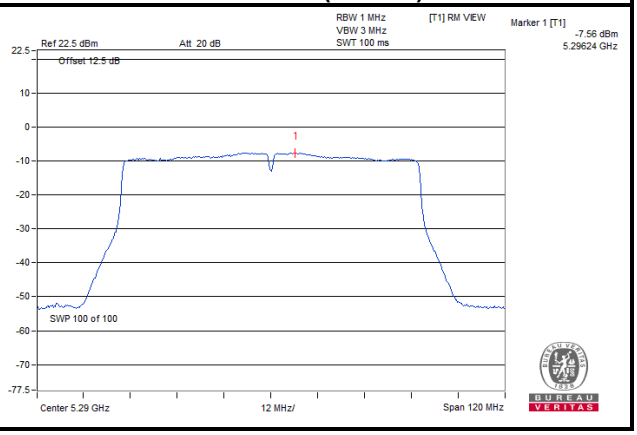
CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
		Chain0	Chain1						
155	5775	-10.85	-10.07	-7.43	-5.21	0	-5.21	30	PASS

SISO:

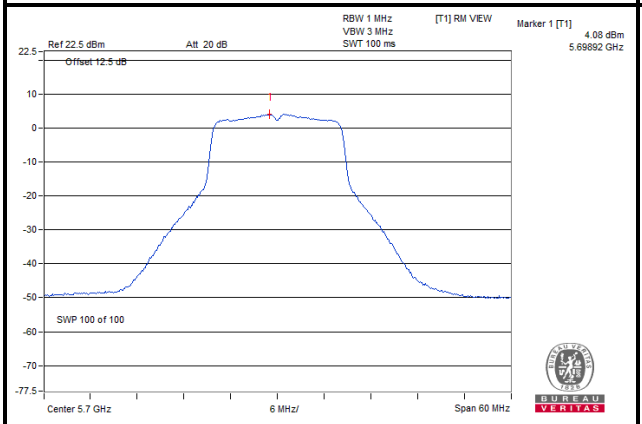
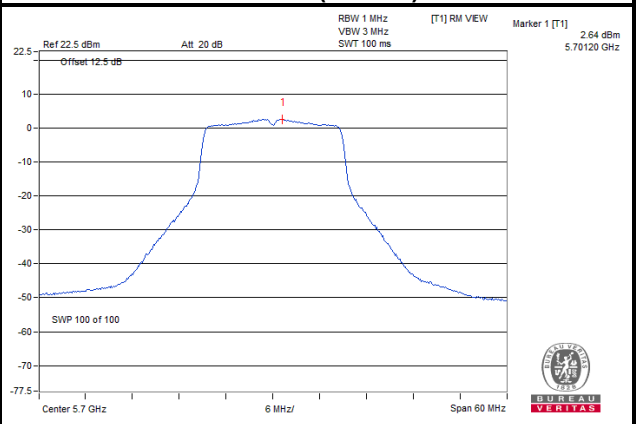
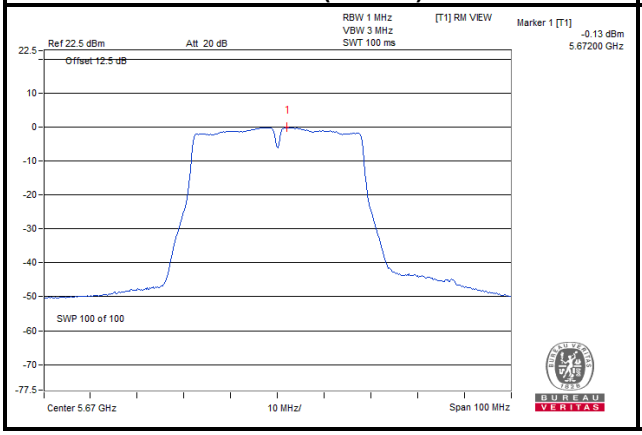
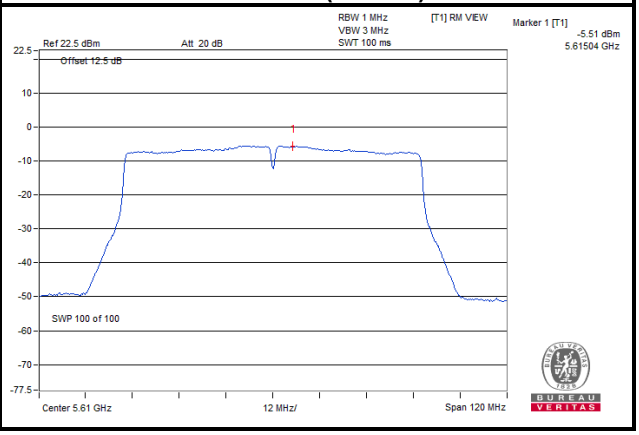
For 5180~5240MHz

PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

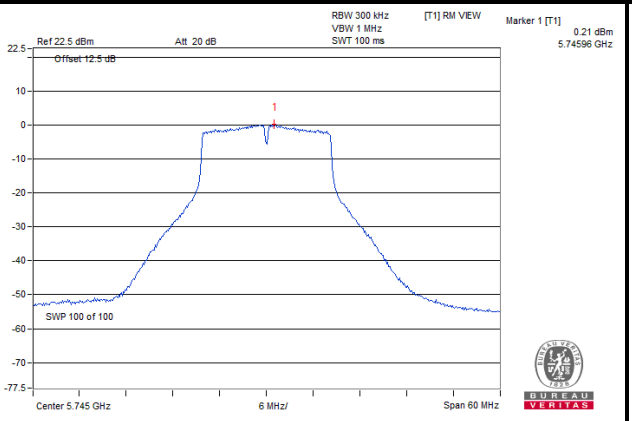
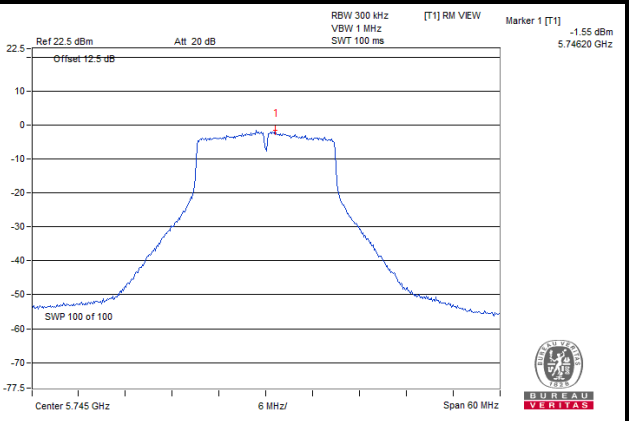
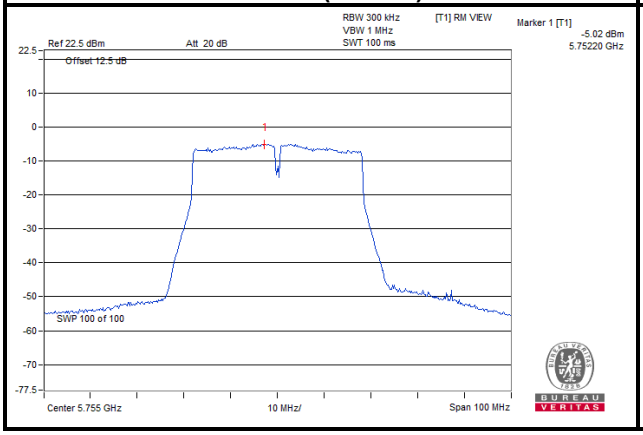
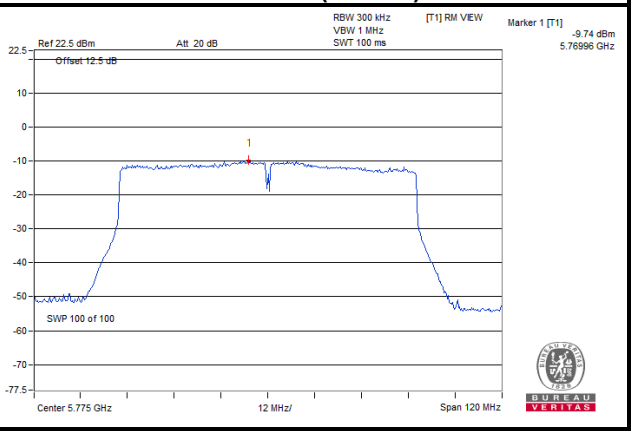
For 5260~5320MHz

PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

For 5500~5700MHz

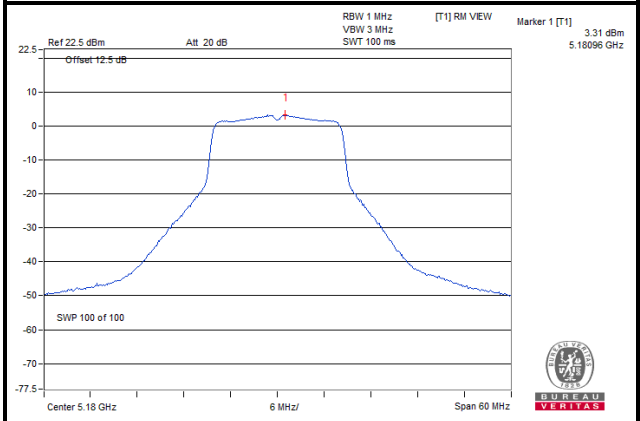
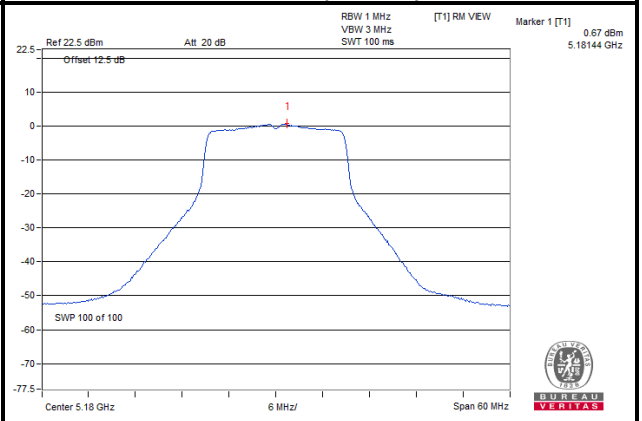
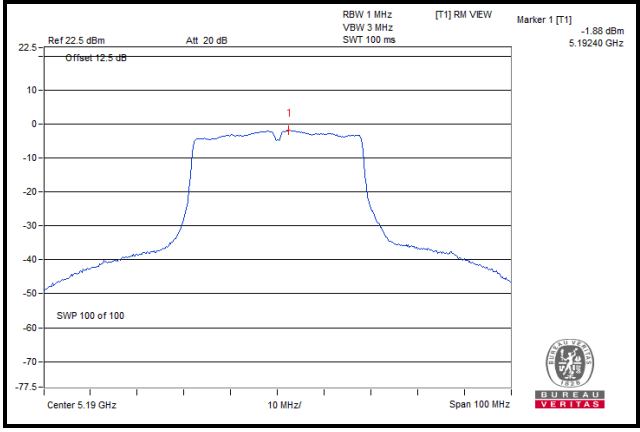
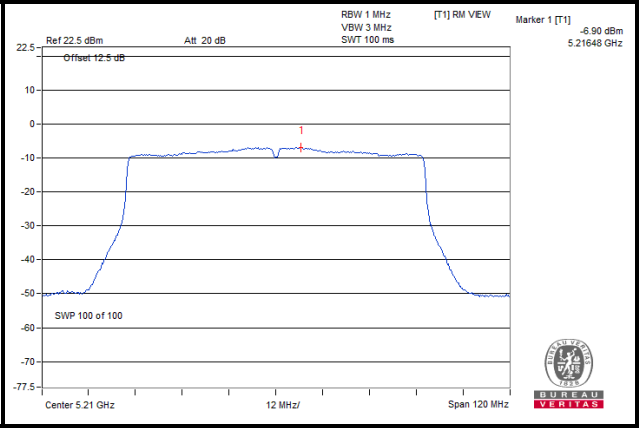
PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

For 5745~5805MHz

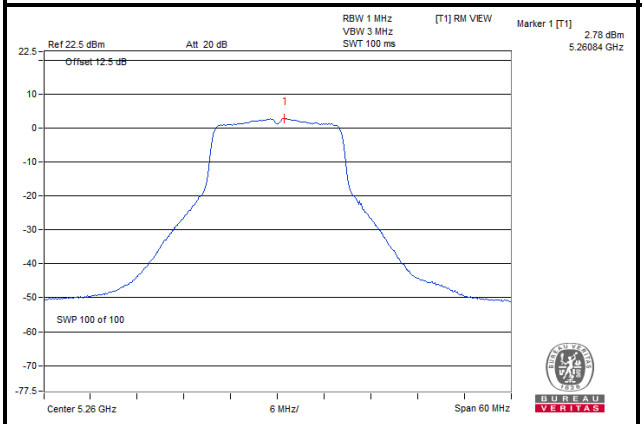
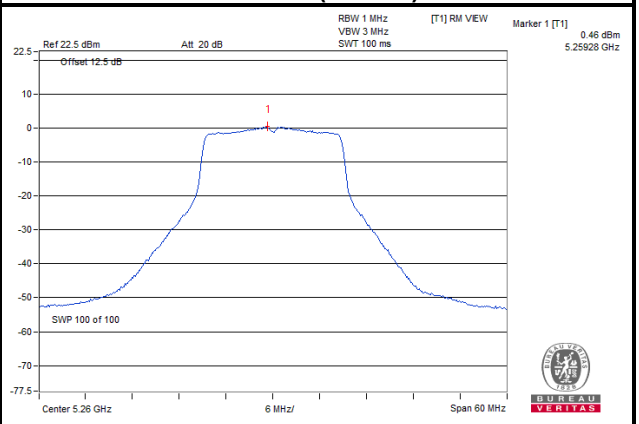
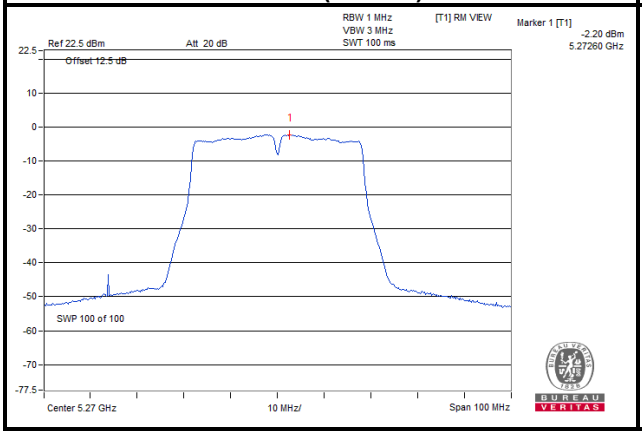
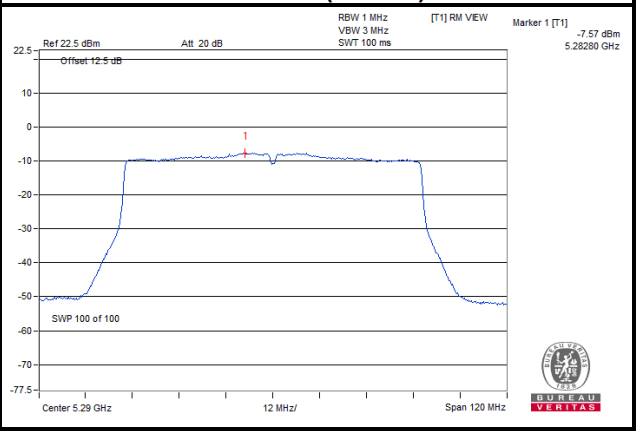
PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

MIMO:

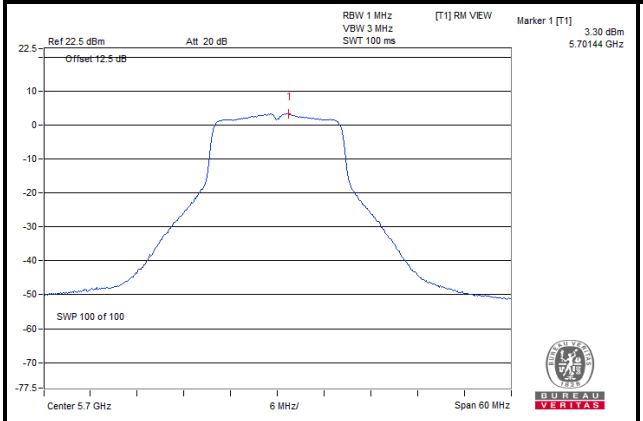
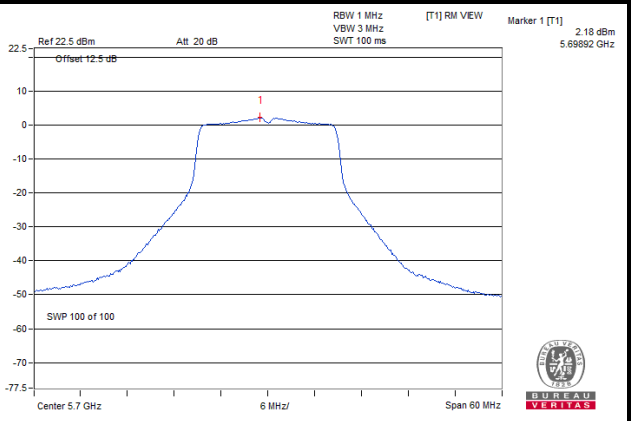
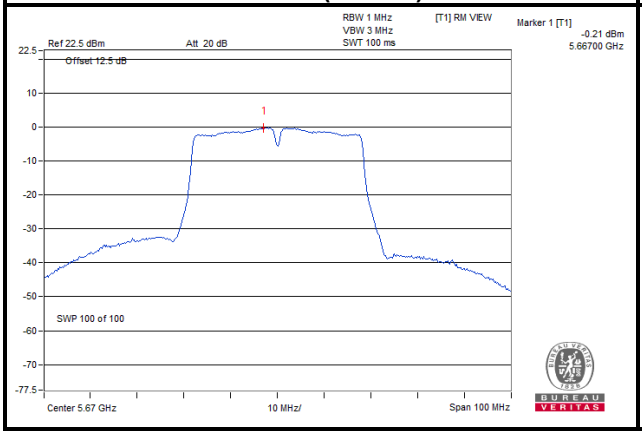
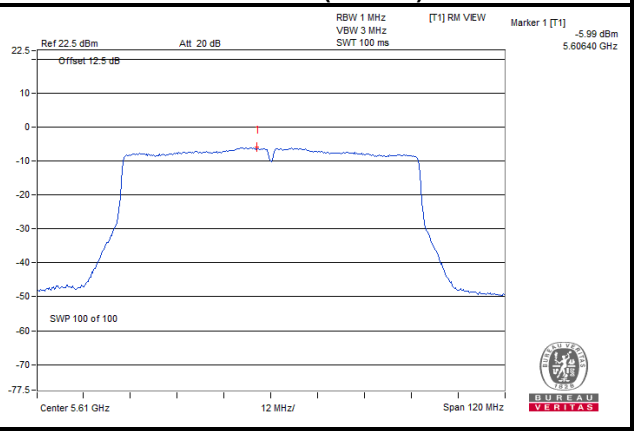
For 5180~5240MHz

PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

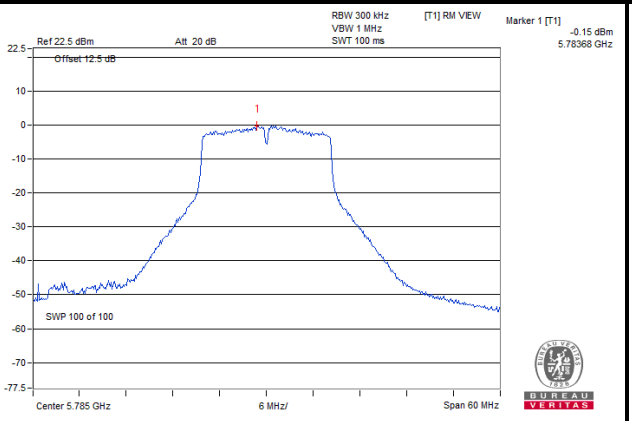
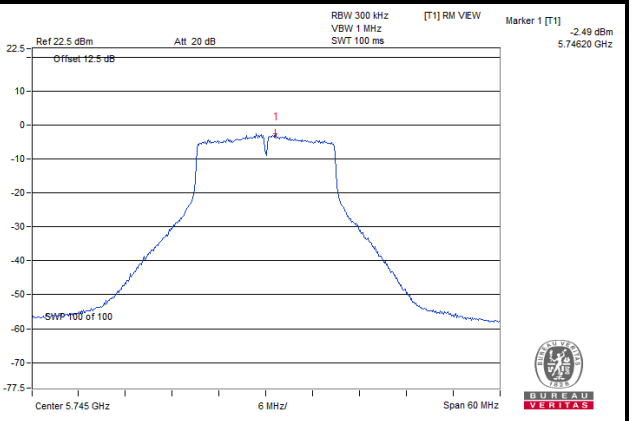
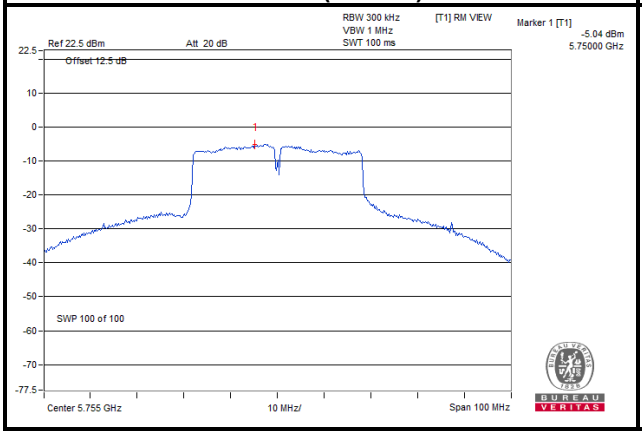
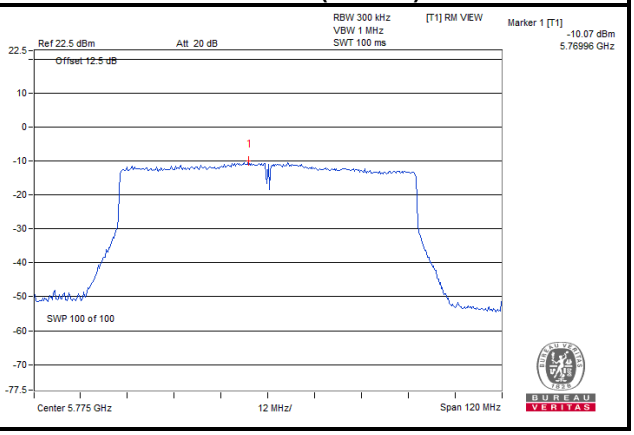
For 5260~5320MHz

PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

For 5500~5700MHz

PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

For 5745~5805MHz

PSD w/o Duty Factor	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

---END---