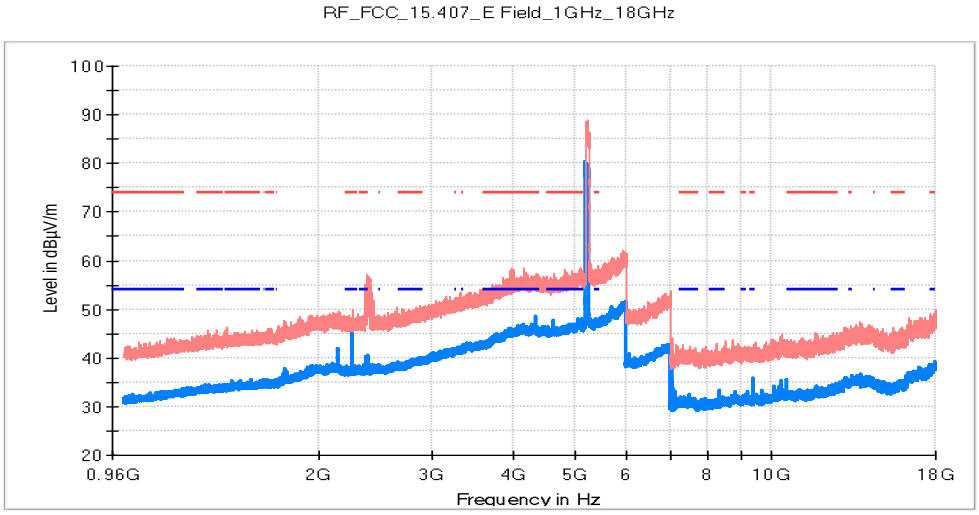
TEST RESULTS (Cont.)	ac mode (80 MHz)
FREQUENCY RANGE	1 GHz – 18 GHz

Mid Channel

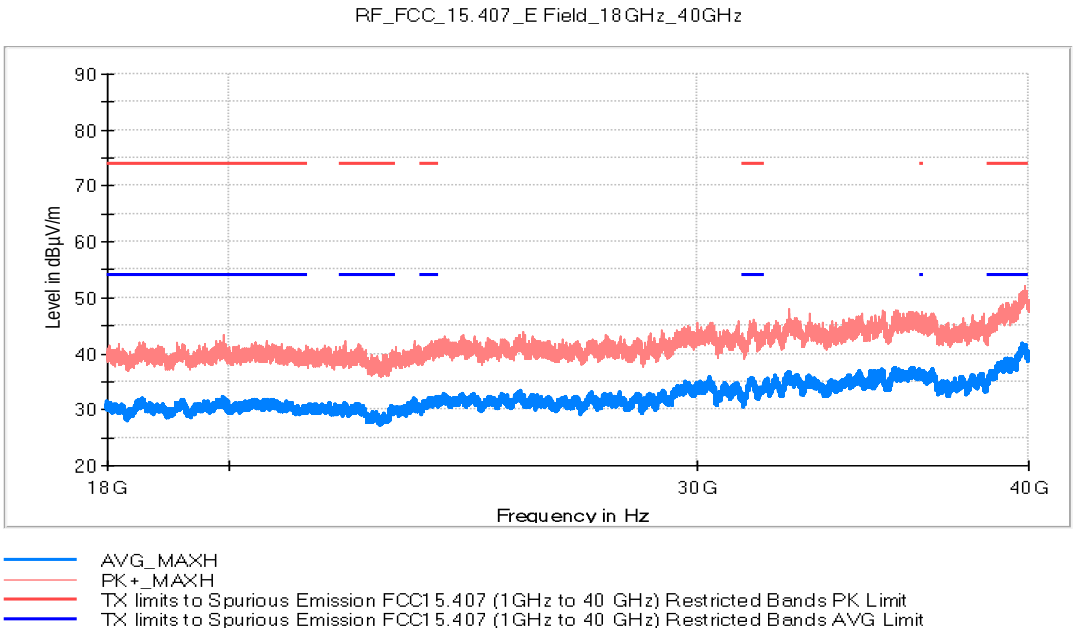


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2256.562500	49.60	46.06	V	
2393.125000	56.93	40.58	V	
4345.312500	54.88	48.48	V	
5184.531250	88.06	80.28	H	Fundamental
7050.800000	44.03	39.65	V	
9434.000000	41.09	35.70	V	
10582.800000	42.34	35.38	H	

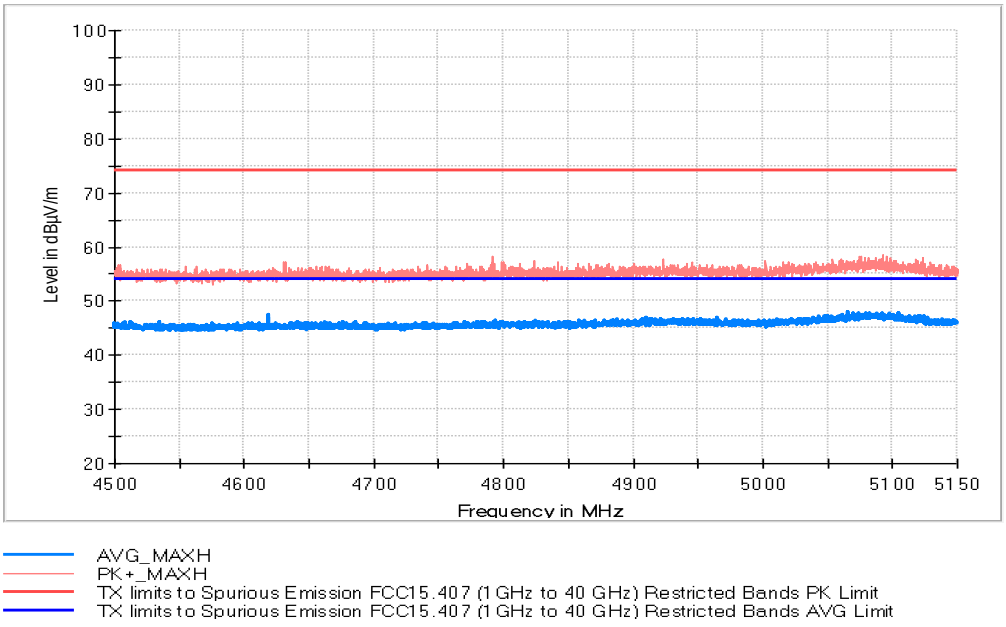
TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Mid Channel



RESTRICTED BANDS	4.5 GHz – 5.15 GHz

Mid Channel



Appendix B: Test results
5.725 GHz – 5.85 GHz Band

Appendix B Content

PRODUCT INFORMATION

The following information is provided by the client

Information	Description
Modulation	Other forms of modulation
Adaptive	Adaptive Equipment without the possibility to switch to a non-adaptive equipment.
Maximum RF Output Power	14 dBm
Operation mode 1: Single Antenna Equipment	Equipment with only one antenna
- Operating Frequency Range	5150 - 5250 MHz 5735 – 5835 MHz
- Nominal Channel Bandwidth	20/ 40/ 80 MHz
Extreme operating conditions	
- Temperature range	-38 ºC to +70 ºC
Antenna type	Integral antenna
Antenna gain	0.7 dBi
Nominal Voltage	
- Supply Voltage	12 Vdc
- Type of power source	DC voltage from battery
Equipment type	WIFI 5GHz
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01(1) **(a mode)**	Power supply (V): $V_{nominal}$ = 12 Vdc Test Frequencies for Radiated tests **(20 MHz)**: Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz
TC#02(1) **(n mode)**	Power supply (V): $V_{nominal}$ = 12 Vdc Test Frequencies for Radiated tests: **(20 MHz)** Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz Test Frequencies for Radiated tests: **(40 MHz)** Lowest channel: 5745 MHz Highest channel: 5785 MHz
TC#03(1) **(ac mode)**	Power supply (V): $V_{nominal}$ = 12 Vdc Test Frequencies for Radiated tests: **(20 MHz)** Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz Test Frequencies for Radiated tests: **(40 MHz)** Lowest channel: 5745 MHz Highest channel: 5785 MHz Test Frequencies for Radiated tests: **(80 MHz)** Middle channel: 5745 MHz

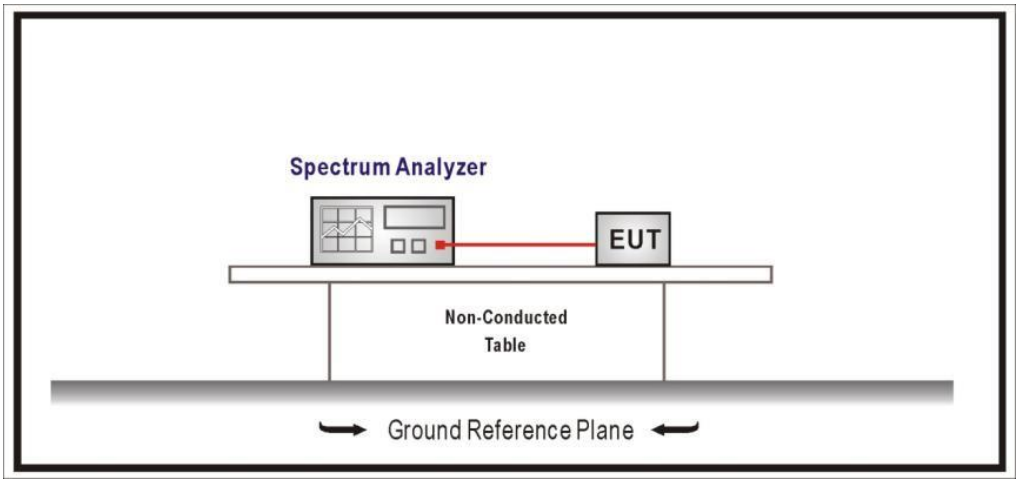
Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20/40 and 802.11ac20/40/80 a preliminary scan was performed to determine the worst case.
The data rates of 6Mb/s for 802.11a, HT0 (SISO) for 802.11n20/ac20 and n40/ac40, and VHT0 (SISO) for 802.11 ac80 were selected based on preliminary testing that identified those rates corresponding to the worst cases.

TEST B.1: 26DB EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart C §15.403 and RSS-247
	Test standard:	Part 15 Subpart C §15.403(i) and RSS-247 6.2.4

No requirements requested

TEST SETUP:	



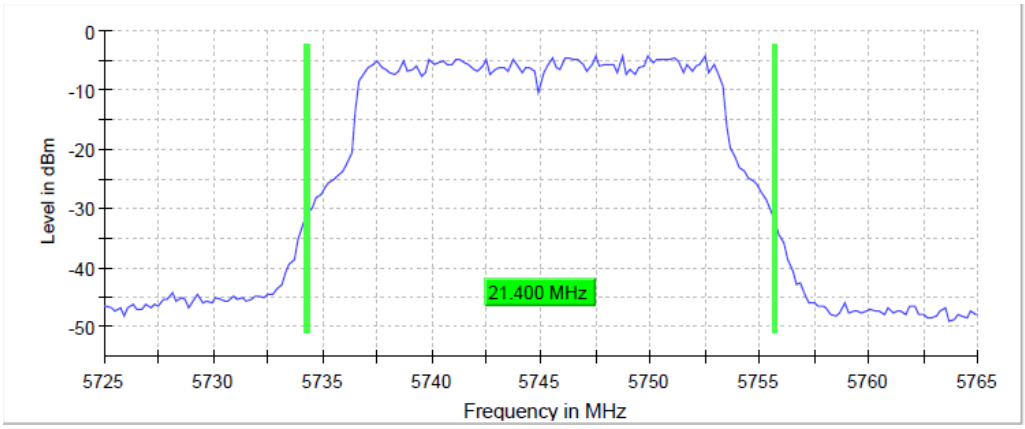
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 **(a mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

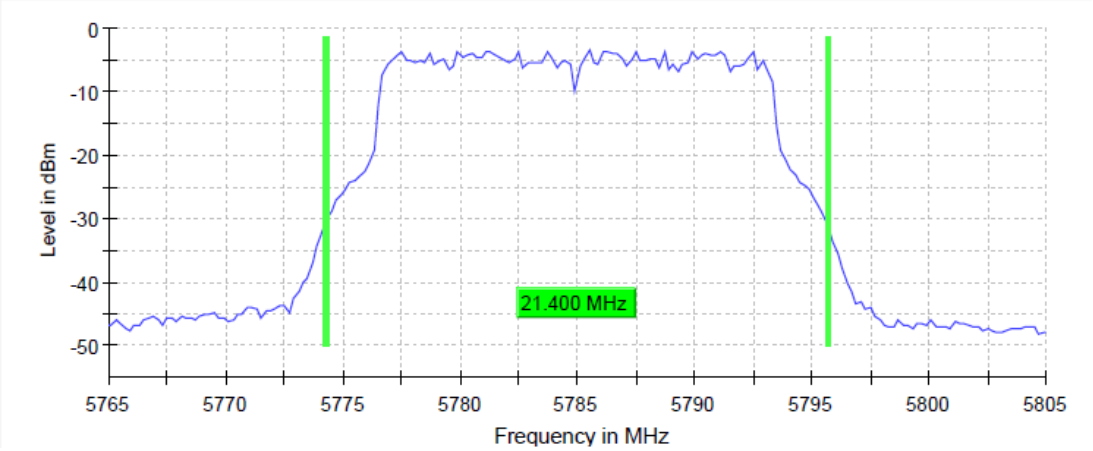
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
26dB Bandwidth (MHz)	21.4	21.4	21.2
Occupied bandwidth (MHz)	16.6	16.6	16.6
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	26 dB BANDWIDTH

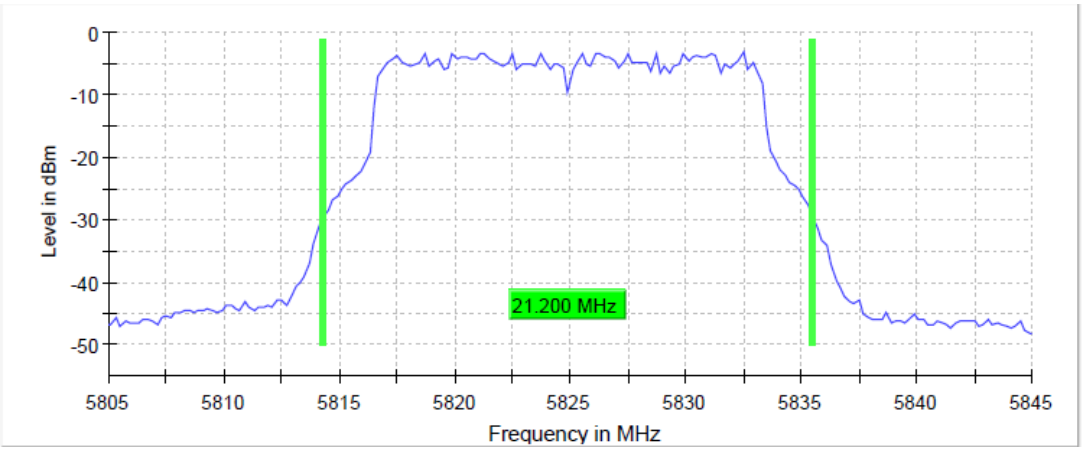
Lowest Channel



Middle Channel

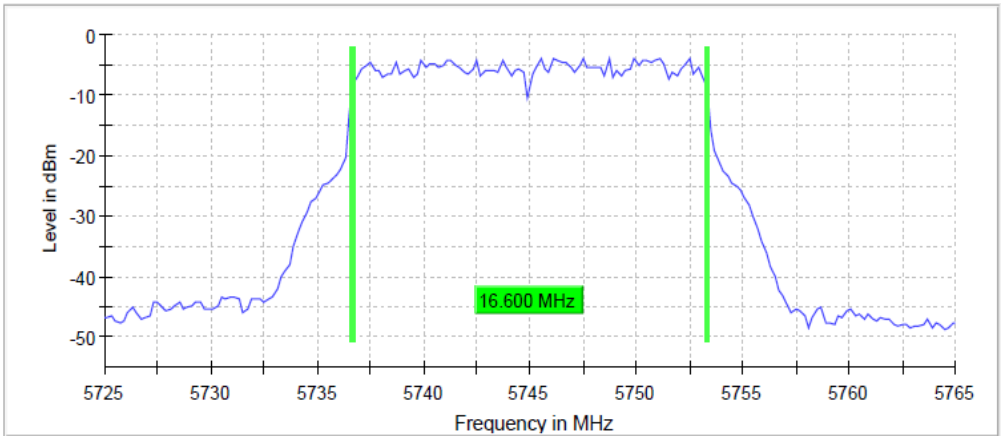


Highest Channel

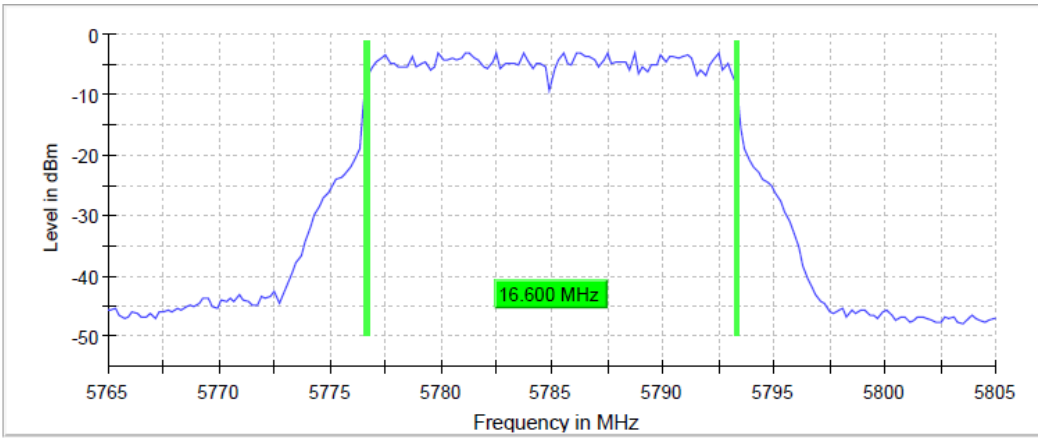


TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH

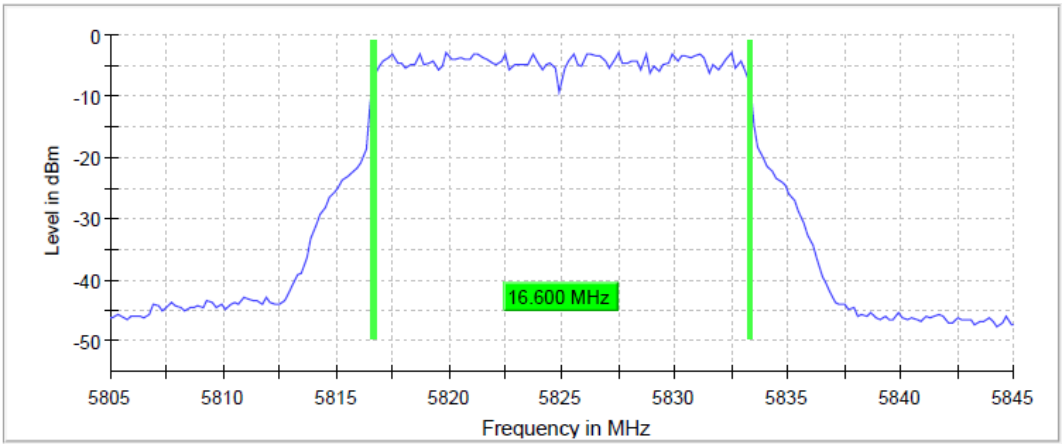
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 µs	28.443 µs	28.443 µs
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	11 / max. 150	18 / max. 150	16 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.17 dB	0.00 dB	0.02 dB

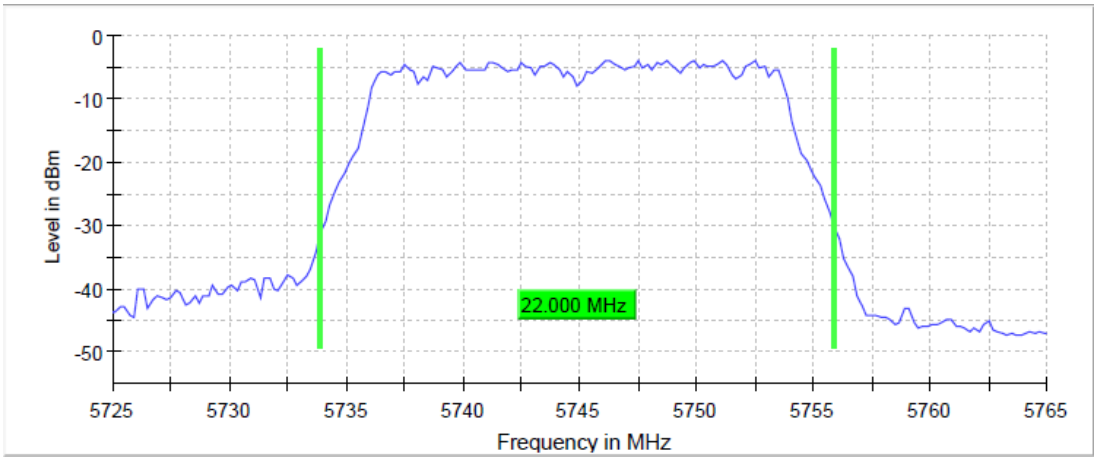
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 **(n Mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

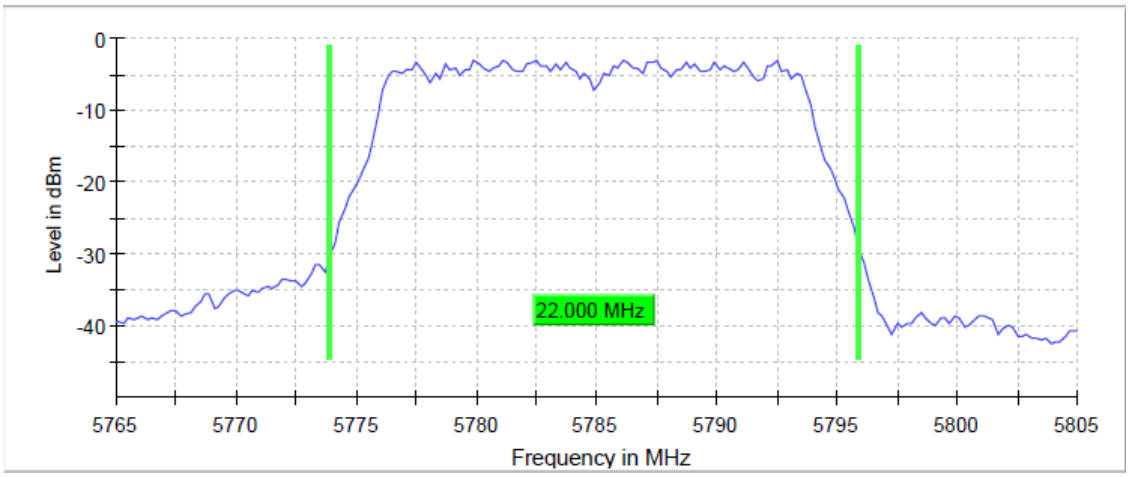
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
26dB bandwidth (MHz)	22	22	22.2
Occupied bandwidth (MHz)	18	18	18
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	26dB BANDWIDTH

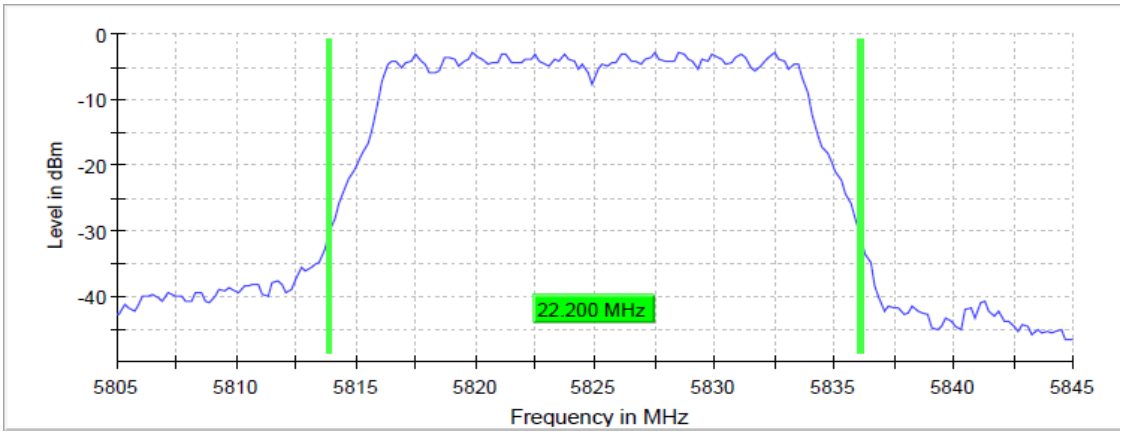
Lowest Channel



Middle Channel

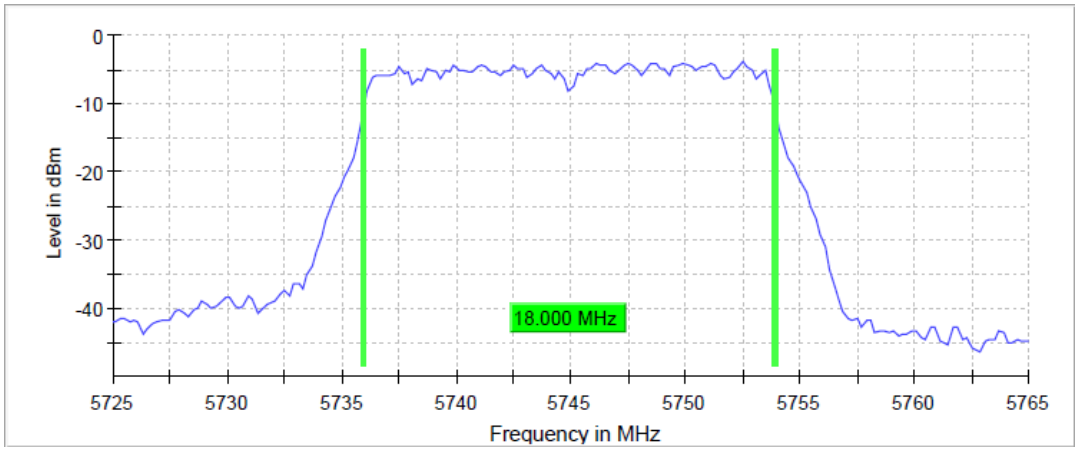


Highest Channel

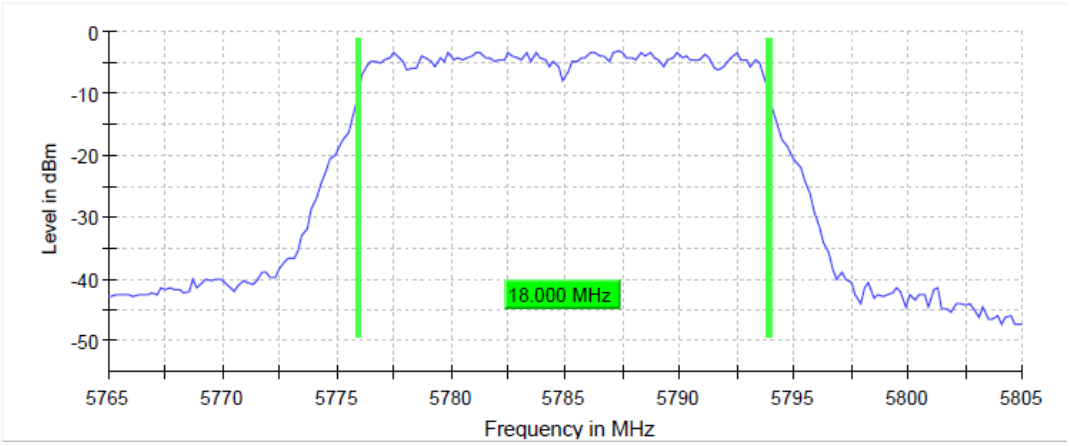


TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH

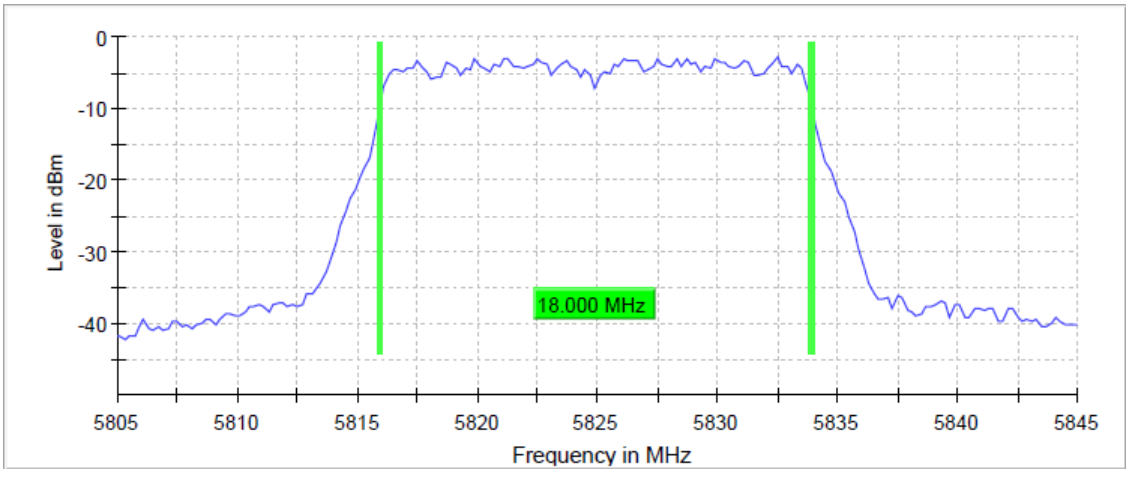
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

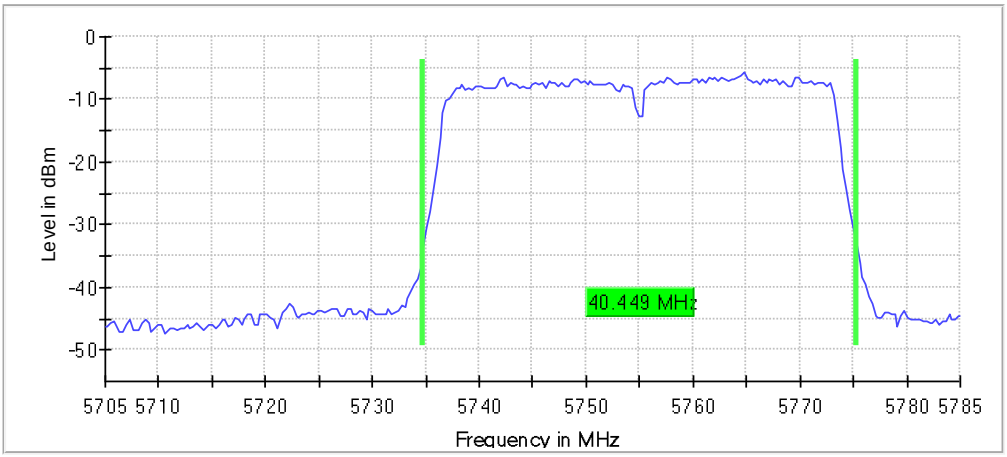
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 µs	28.443 µs	28.443 µs
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	55 / max. 150	61 / max. 150	52 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.26 dB	0.12 dB	0.00 dB

TEST RESULTS (Cont.)	n Mode (40MHz)

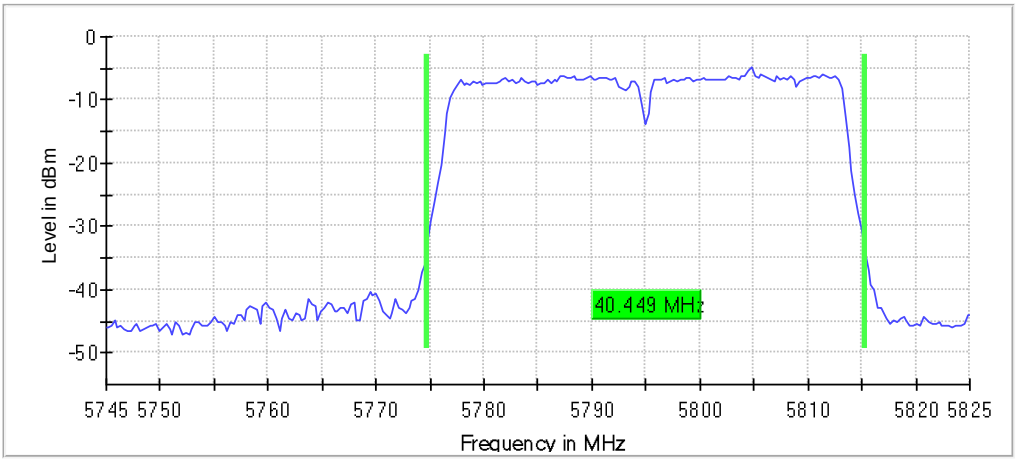
	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
26dB bandwidth (MHz)	40.449	40.449
Occupied bandwidth (MHz)	36.255	36.554
Measurement uncertainty (kHz)	<± 8.33	

TEST RESULTS (Cont.):	26dB BANDWIDTH

Lowest Channel

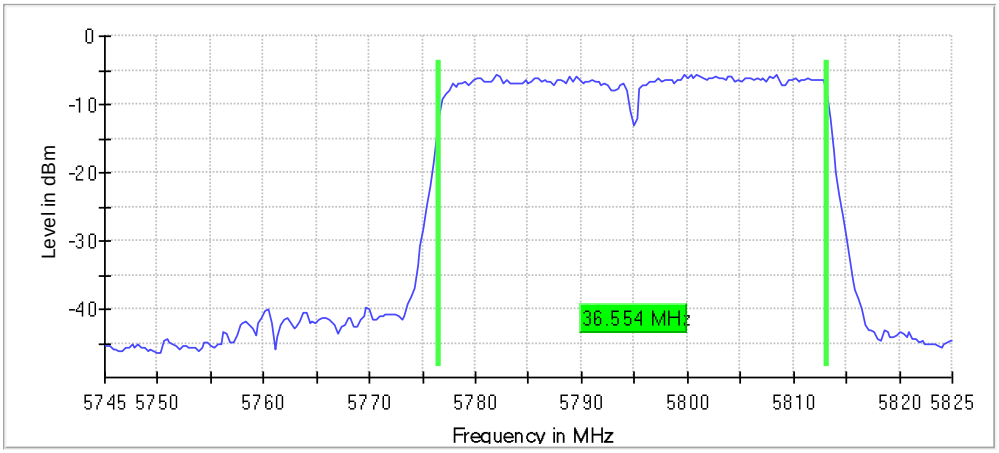


Highest Channel



TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH

Highest Channel



Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.70500 GHz	5.74500 GHz
Stop Frequency	5.78500 GHz	5.82500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 KHz
VBW	1.000 MHz	1.000 MHz
SweepPoints	267	267
Sweeptime	31.603 µs	31.603 µs
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	55 / max. 150	50 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.22 dB

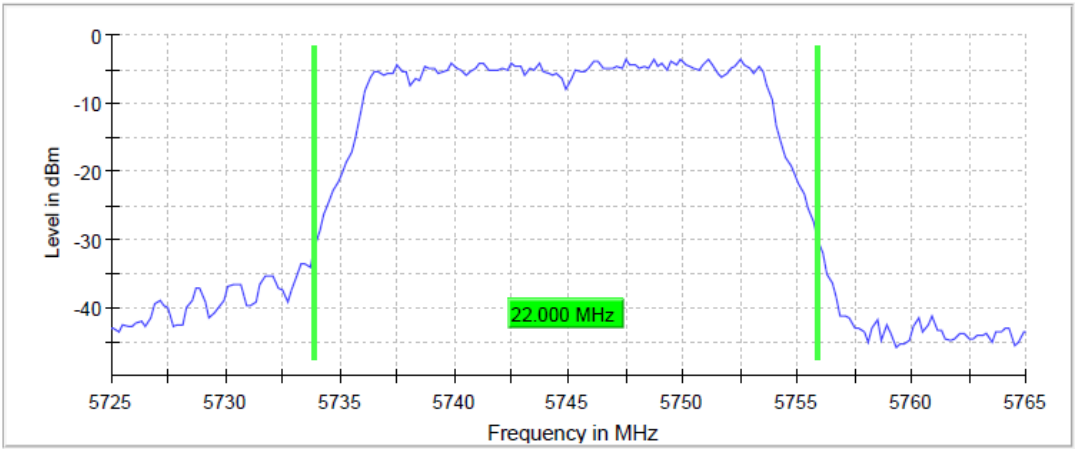
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 **(ac mode)**
TEST RESULTS :	PASS

Bandwidth: 20 MHz

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
26db bandwidth (MHz)	22	22.2	22
Occupied bandwidth (MHz)	18	18	18
Measurement uncertainty (kHz)	<± 8.33		

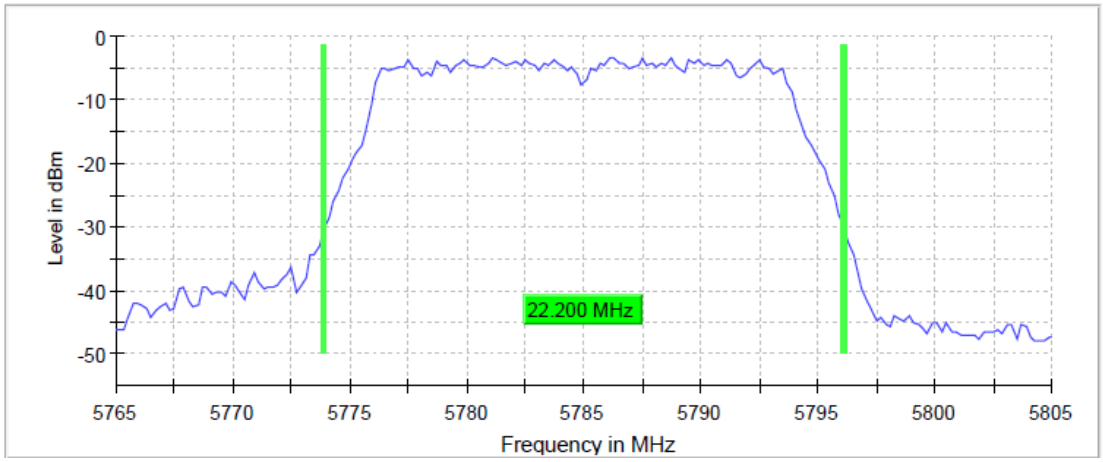
TEST RESULTS (Cont.):	**26dB BANDWIDTH**

Lowest Channel

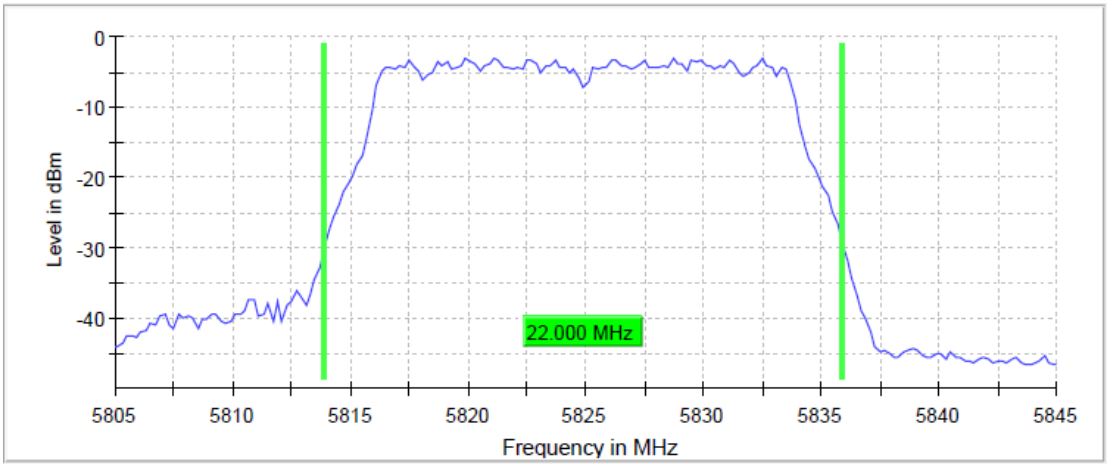


TEST RESULTS (Cont.):	26dB BANDWIDTH

Middle Channel

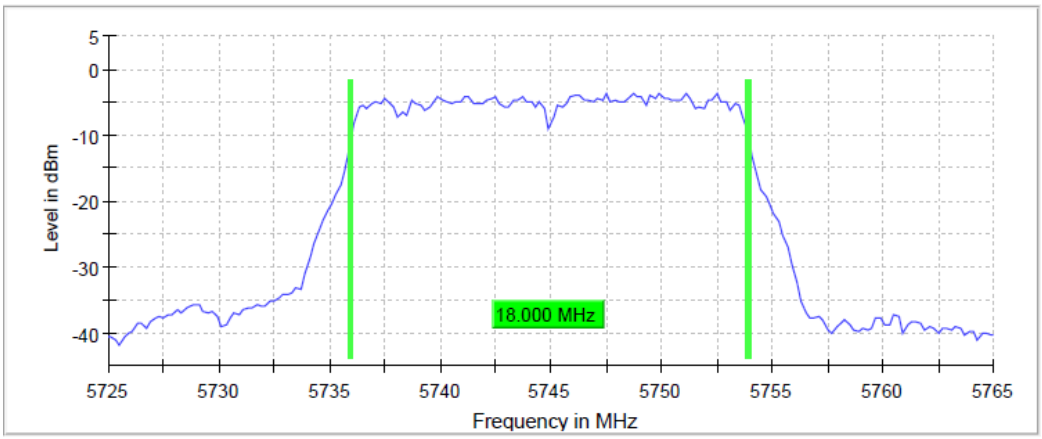


Highest Channel

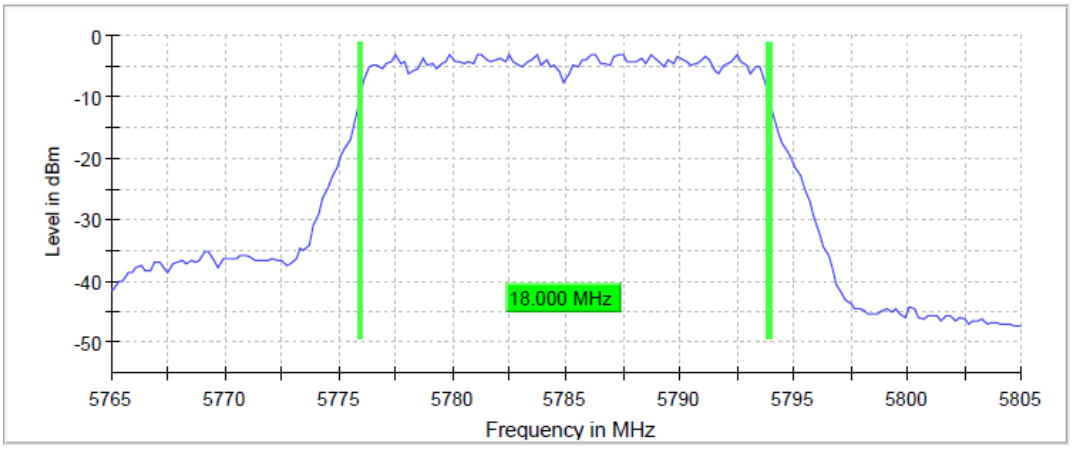


TEST RESULTS (Cont.)	OCCUPIED BANDWIDTH

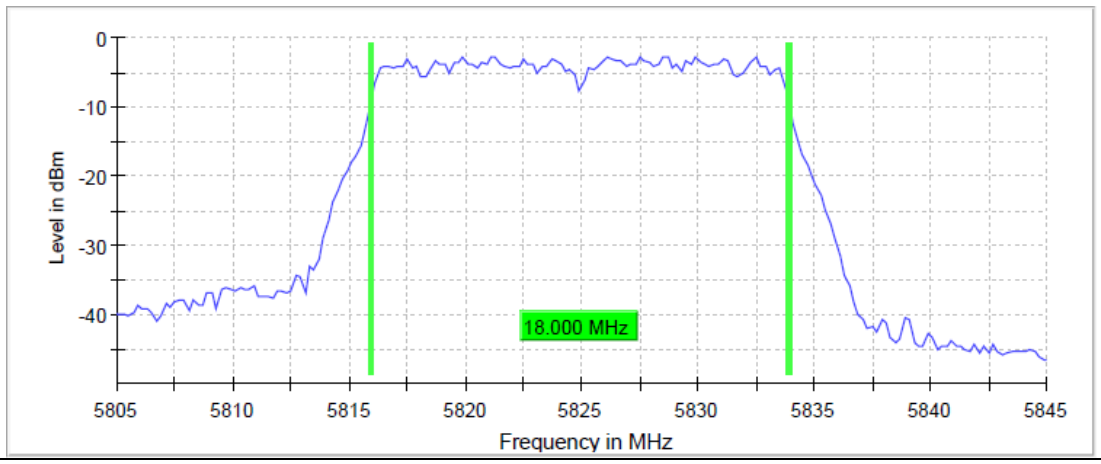
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

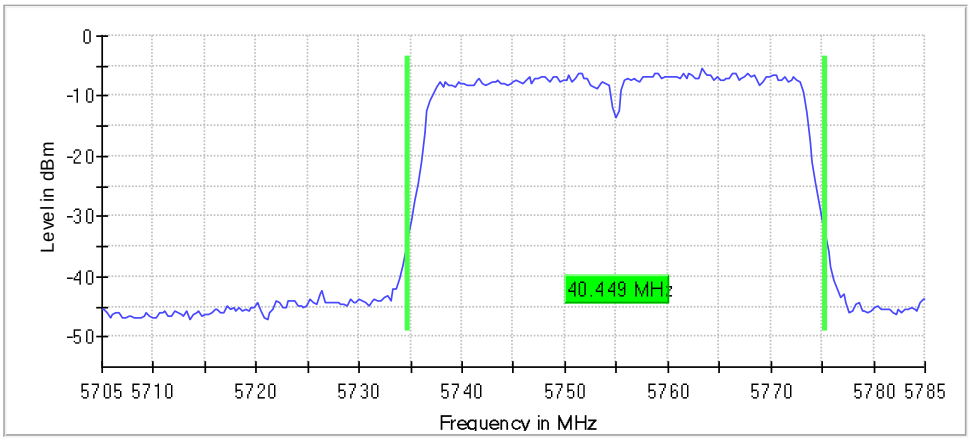
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 KHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
SweepPoints	200	200	200
Sweeptime	28.443 us	28.443 us	28.443 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	72 / max. 150	29 / max. 150	39 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.18 dB	0.05 dB	0.16 dB

TEST RESULTS (Cont.)	ac Mode (40MHz)

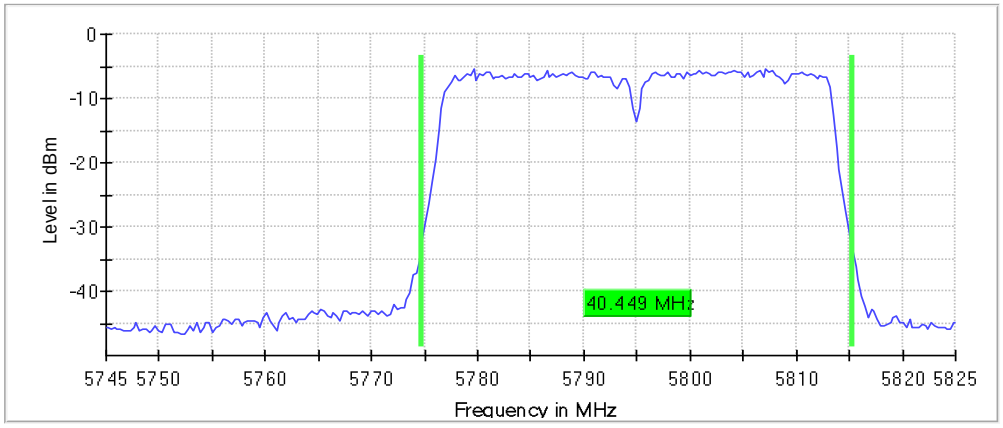
	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
26dB bandwidth (MHz)	40.449	40.449
Occupied bandwidth (MHz)	36.255	36.554
Measurement uncertainty (kHz)	<± 8.33	

TEST RESULTS (Cont.):	26dB BANDWIDTH

Lowest Channel

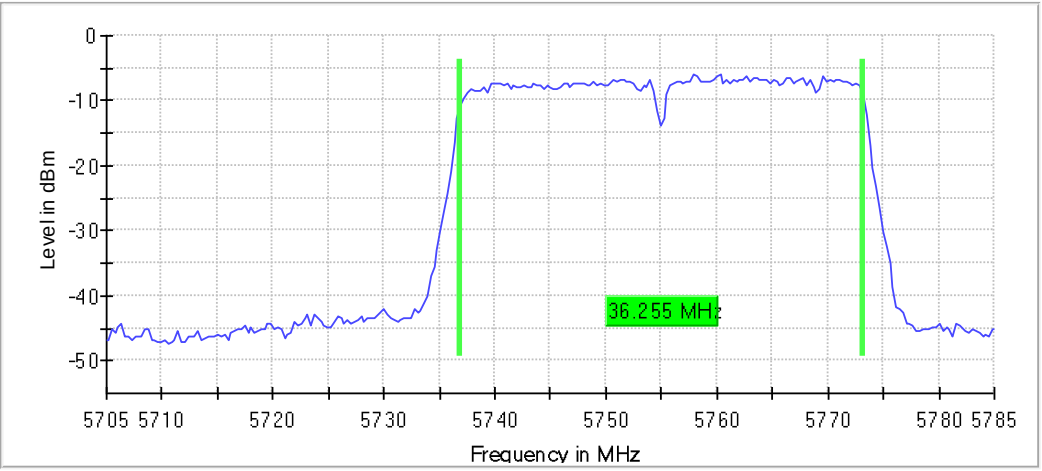


Highest Channel

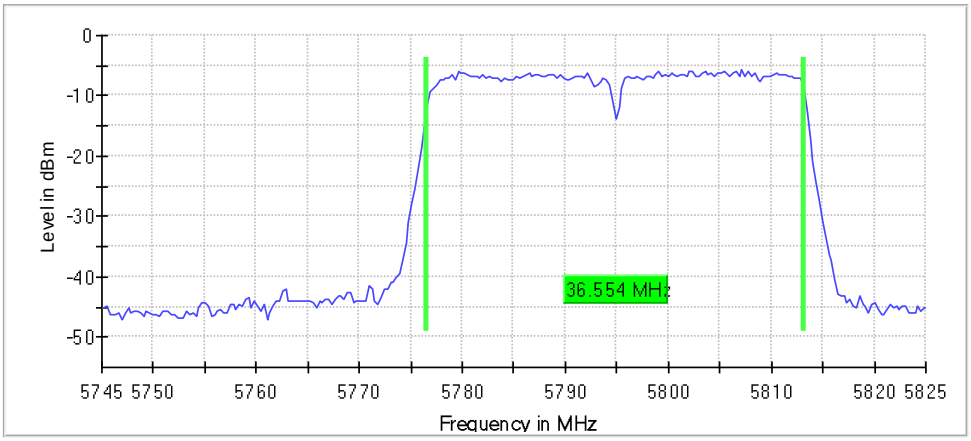


TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH

Lowest Channel



Highest Channel



Measurement

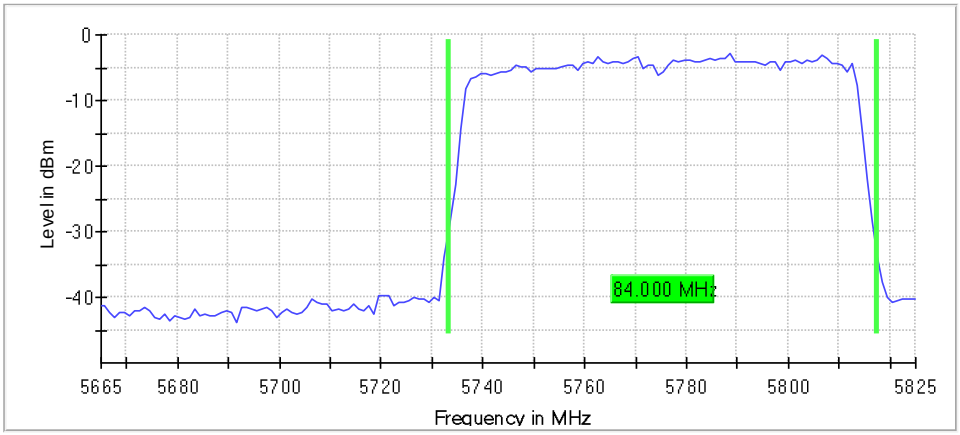
Setting	Instrument Value	Instrument Value
Start Frequency	5.70500 GHz	5.74500 GHz
Stop Frequency	5.78500 GHz	5.82500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 KHz
VBW	1.000 MHz	1.000 MHz
SweepPoints	267	267
Sweeptime	31.603 µs	31.603 µs
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	78 / max. 150	83 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB

TEST RESULTS (Cont.)	ac Mode (80MHz)

	Lowest frequency 5745 MHz
26dB bandwidth (MHz)	84
Occupied bandwidth (MHz)	76
Measurement uncertainty (kHz)	<± 8.33

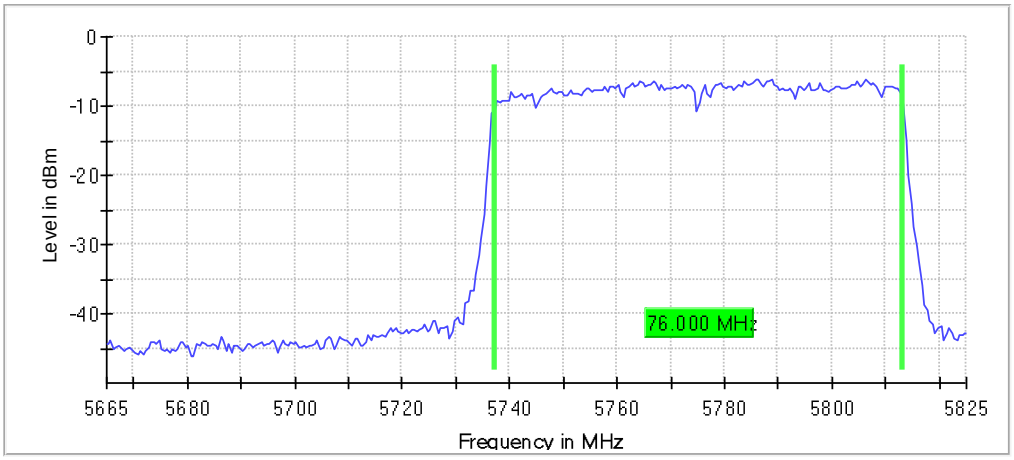
TEST RESULTS (Cont.):	26dB BANDWIDTH

Lowest Channel



TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH

Lowest Channel



Measurement

Setting	Instrument Value
Start Frequency	5.66500 GHz
Stop Frequency	5.82500 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
SweepPoints	160
Sweeptime	22.754 us
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	FFT
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	37 / max. 150
Stable	5 / 5
Max Stable	0.00 dB

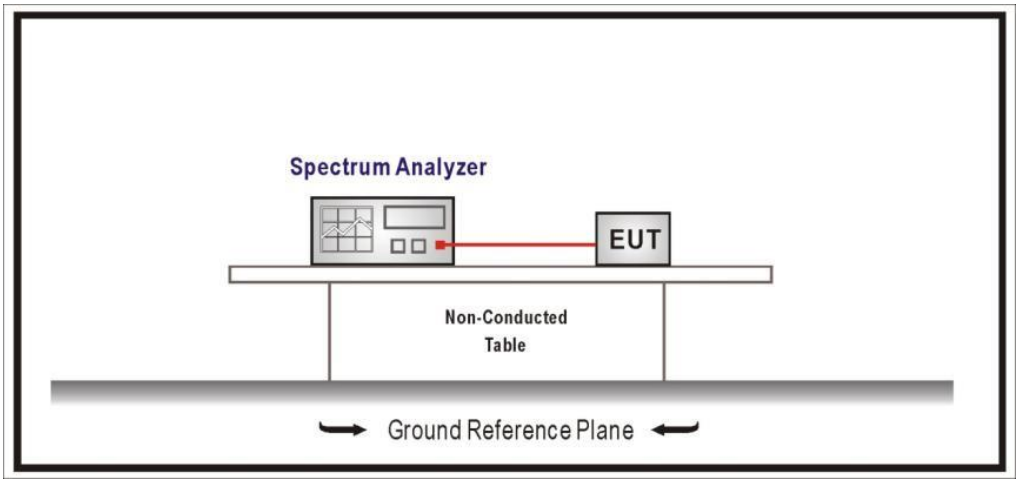
TEST B.2: 6DB EMISSION BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(e) and RSS-247 6.2.4.1

LIMITS:

Within the 5.725 – 5.85 GHz band, the minimum 6dB bandwidth of U-NII devices shall be at least 500 KHz.

TEST SETUP:	



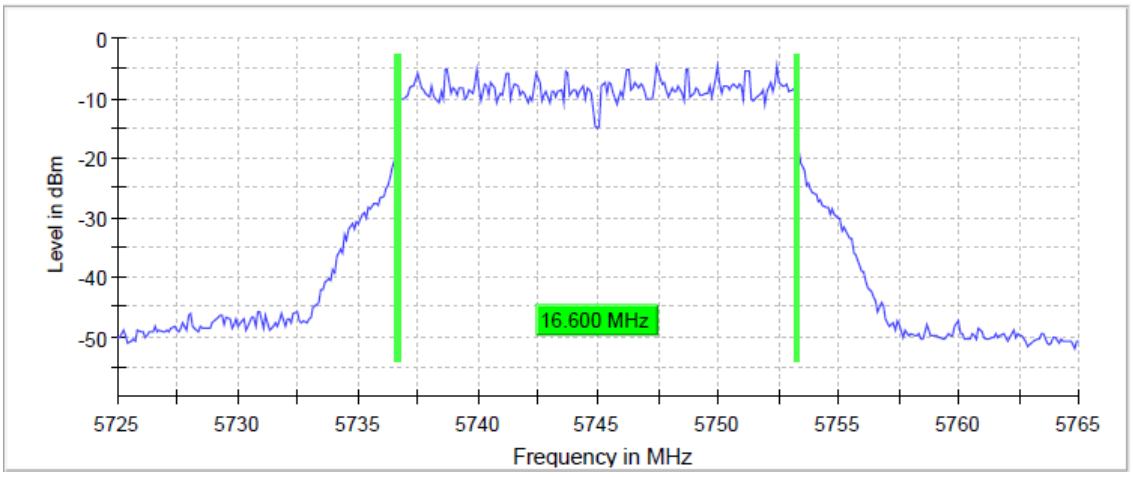
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 **(a mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

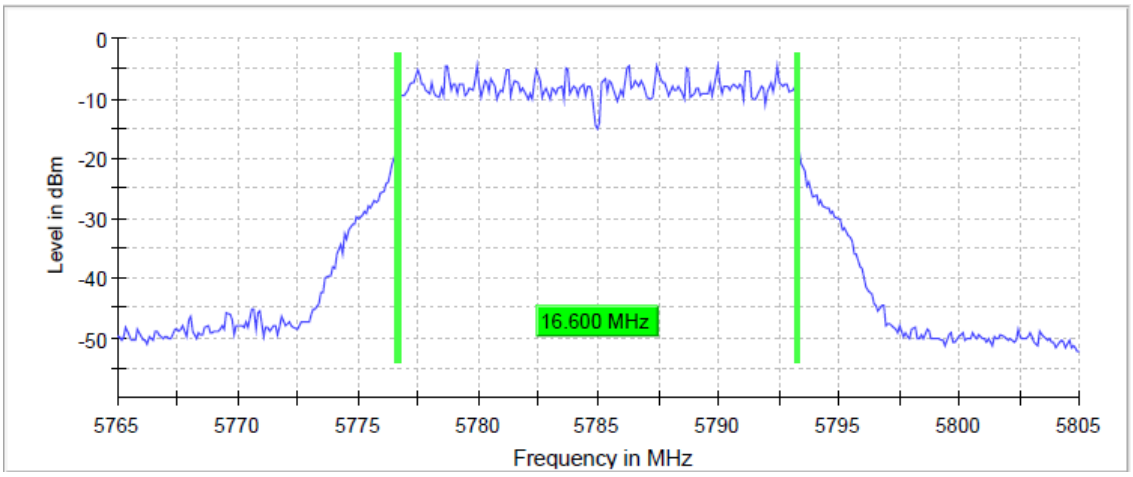
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
6dB Bandwidth (MHz)	16.6	16.6	16.6
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	6 dB BANDWIDTH

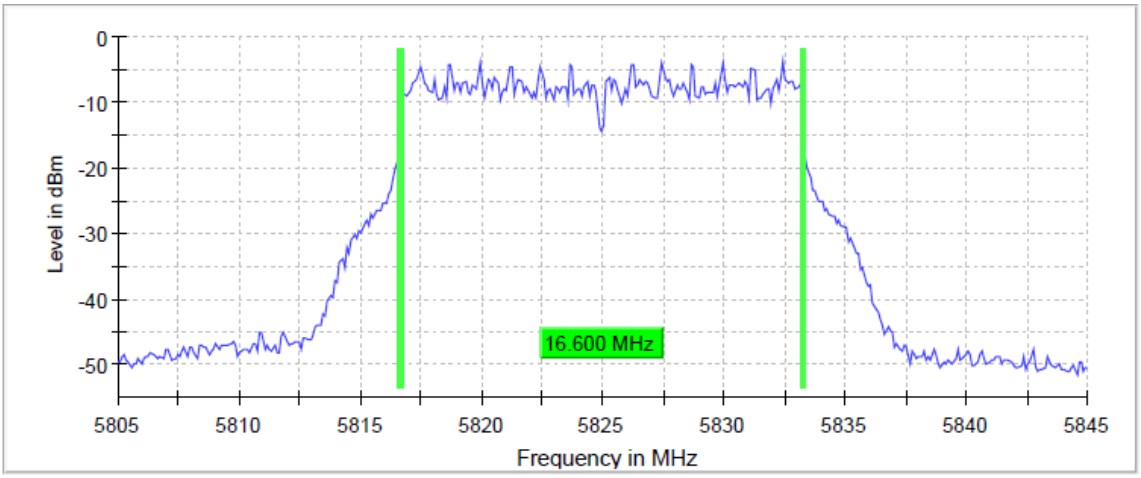
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz	300.000 KHz
SweepPoints	400	400	400
Sweeptime	56.886 µs	56.886 µs	56.886 µs
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	28 / max. 150	15 / max. 150	13 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.01 dB	0.004 dB	0.04 dB

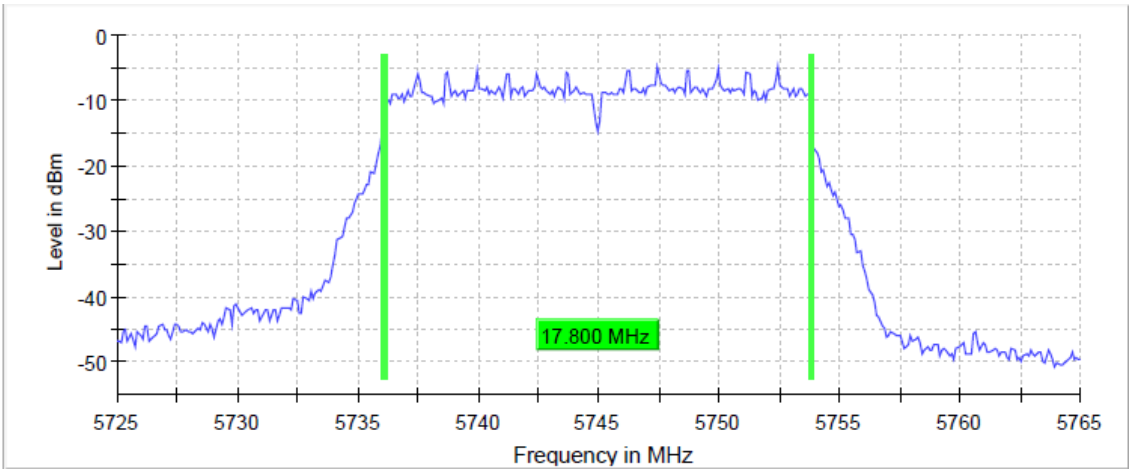
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 **(N Mode)**
TEST RESULTS :	PASS

Bandwidth: 20 MHz

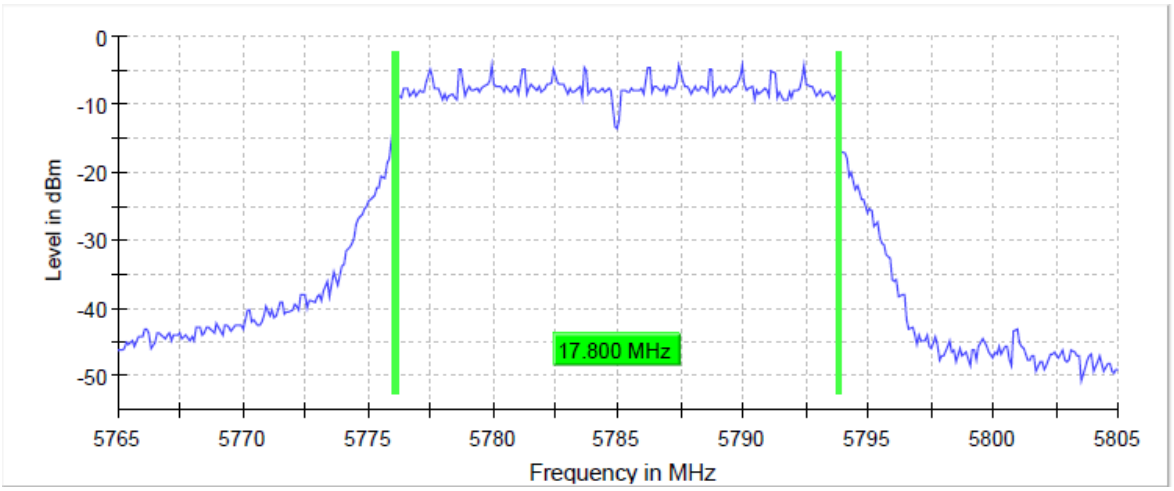
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
6dB bandwidth (MHz)	17.8	17.8	17.8
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	6 dB BANDWIDTH

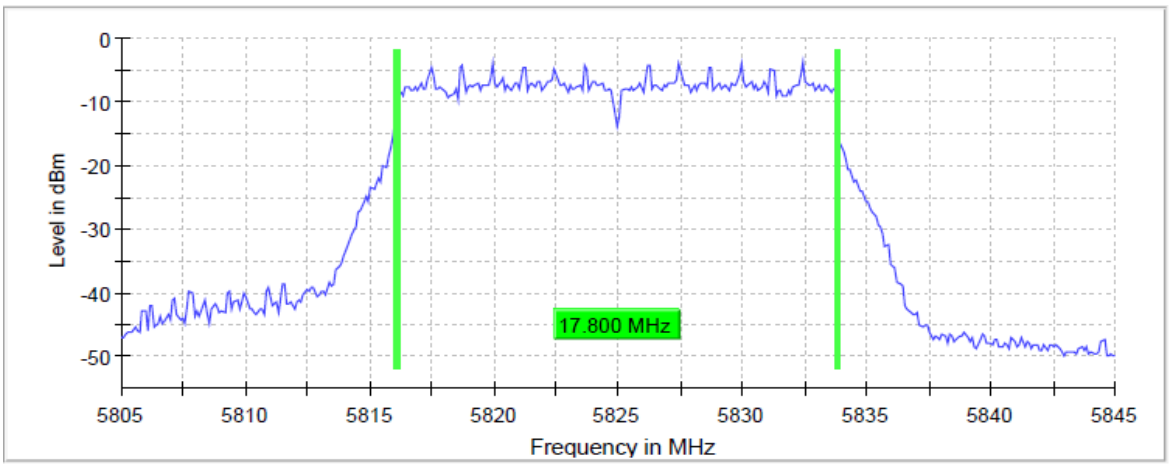
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

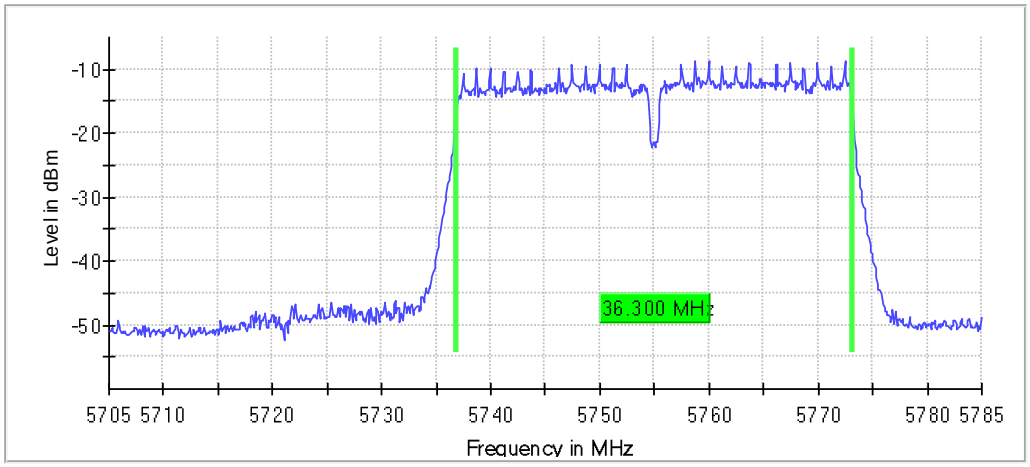
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz	300.000 KHz
SweepPoints	400	400	400
Sweeptime	56.886 us	56.886 us	56.886 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	72 / max. 150	52 / max. 150	48 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.00 dB	0.00 dB	0.01 dB

TEST RESULTS (Cont.)	n Mode (40MHz)

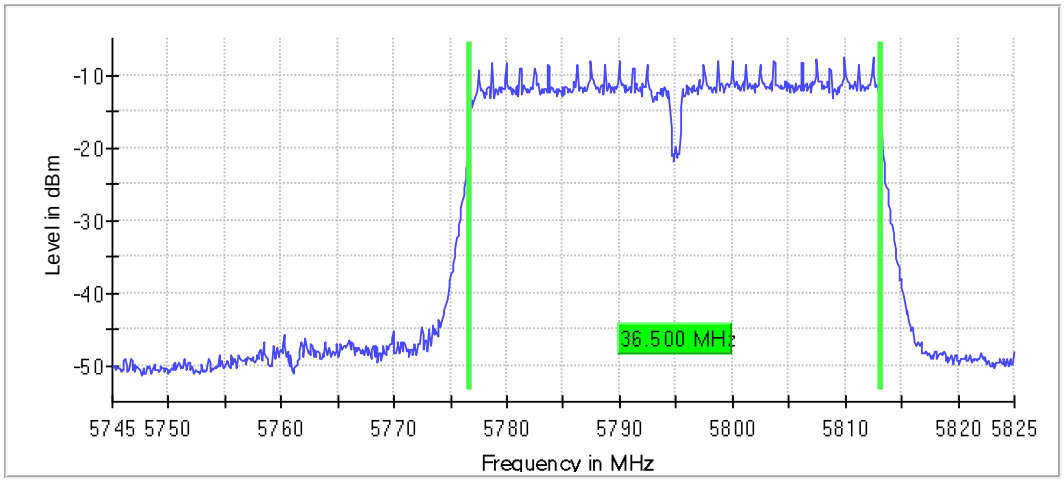
	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
6dB bandwidth (MHz)	36.3	36.5
Measurement uncertainty (kHz)	<± 8.33	

6DB BANDWIDTH	

Lowest Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.70500 GHz	5.74500 GHz
Stop Frequency	5.78500 GHz	5.82500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz
SweepPoints	800	800
Sweeptime	94.810 us	94.810 us
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	68 / max. 150	150 / max. 150
Stable	5 / 5	4 / 5
Max Stable	0.08 dB	0.25 dB

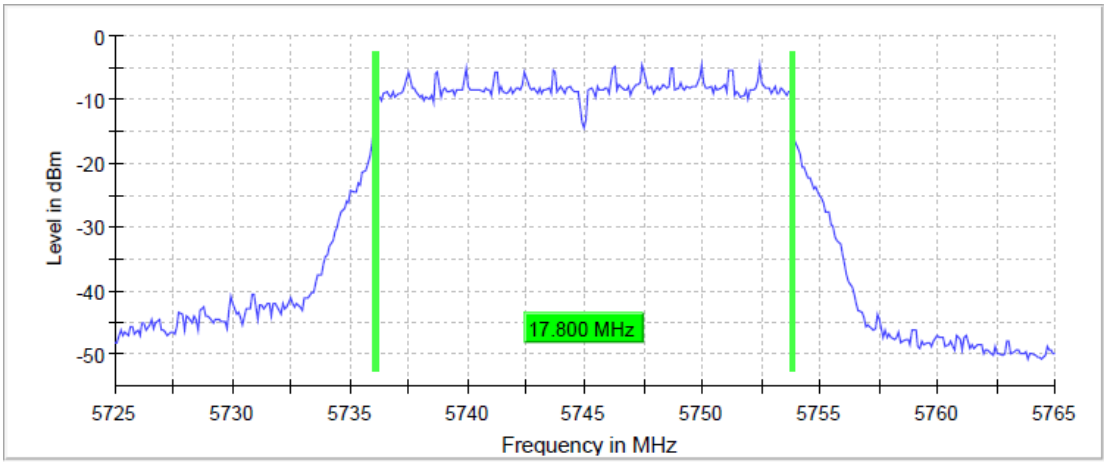
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 **(ac mode)**
TEST RESULTS :	PASS

Bandwidth: 20 MHz

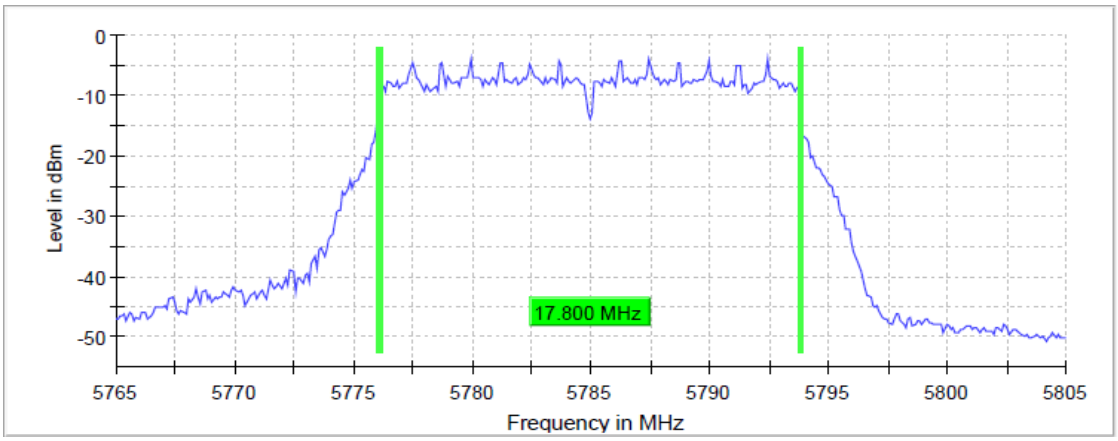
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
6db bandwidth (MHz)	17.8	17.8	17.8
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	6dB BANDWIDTH

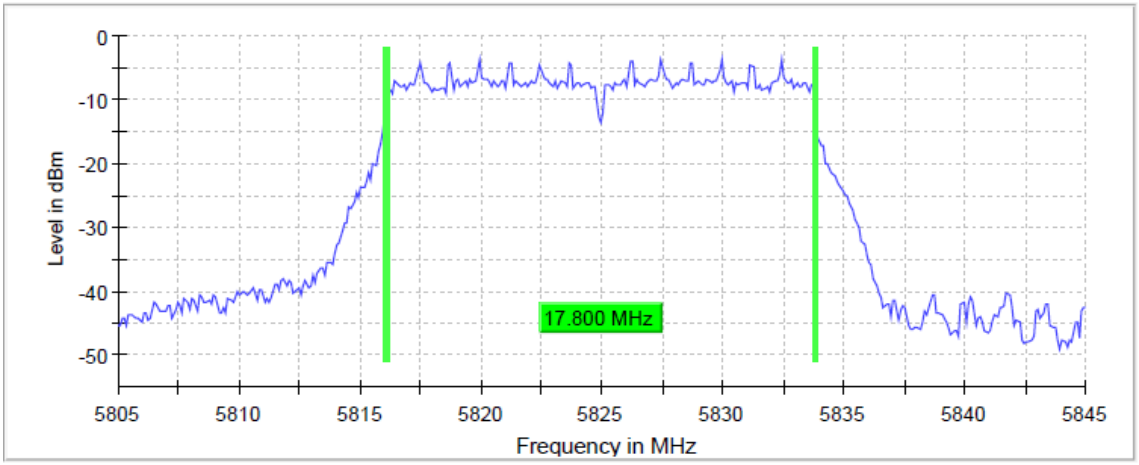
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

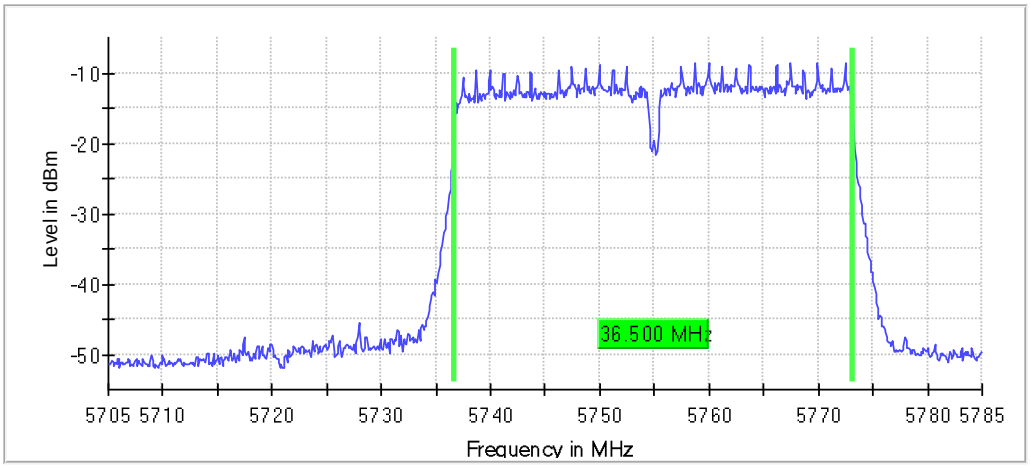
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz	300.000 KHz
SweepPoints	400	400	400
Sweeptime	56.886 us	56.886 us	56.886 us
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
SweepCount	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	FFT	FFT	FFT
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	62 / max. 150	59 / max. 150	91 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.04 dB	0.23 dB	0.03 dB

TEST RESULTS (Cont.)	ac Mode (40MHz)

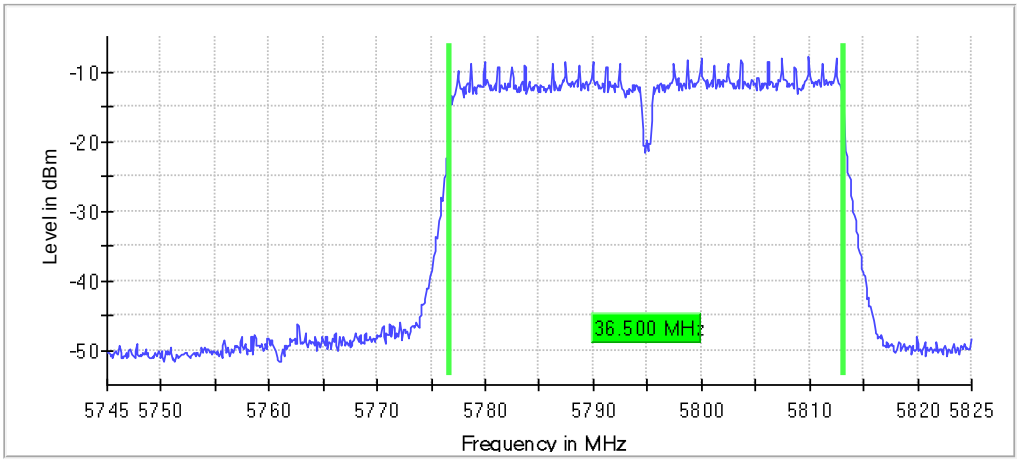
	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
6dB bandwidth (MHz)	36.5	36.5
Measurement uncertainty (kHz)	<± 8.33	

TEST RESULTS (Cont.):	6dB BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.)	

Measurement

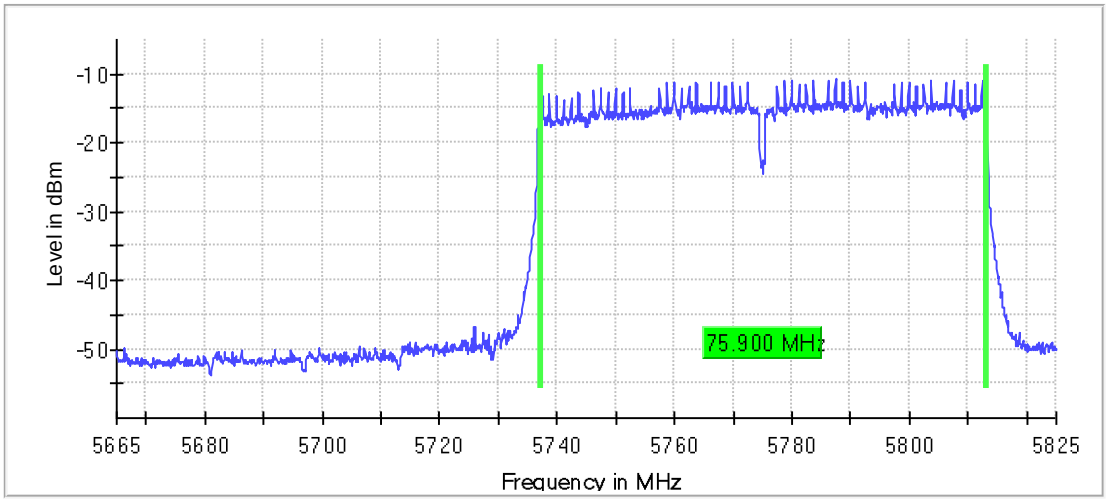
Setting	Instrument Value	Instrument Value
Start Frequency	5.70500 GHz	5.74500 GHz
Stop Frequency	5.78500 GHz	5.82500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz
SweepPoints	800	800
Sweeptime	94.810 µs	94.810 µs
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	77 / max. 150	116 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.25 dB	0.01 dB

TEST RESULTS (Cont.)	ac Mode (80MHz)

	Lowest frequency 5745 MHz
6dB bandwidth (MHz)	75.9
Measurement uncertainty (kHz)	<± 8.33

TEST RESULTS (Cont.):	6dB BANDWIDTH

Lowest Channel



Measurement

Setting	Instrument Value
Start Frequency	5.66500 GHz
Stop Frequency	5.82500 GHz
Span	160.000 MHz
RBW	100.000 KHz
VBW	300.000 KHz
SweepPoints	1600
Sweeptime	189.620 µs
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	FFT
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	150 / max. 150
Stable	5 / 5
Max Stable Difference	0.16 dB

TEST B.3: POWER LIMITS. MAXIMUM OUTPUT POWER

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(a) (3) (4) and RSS-247 6.2.4.1

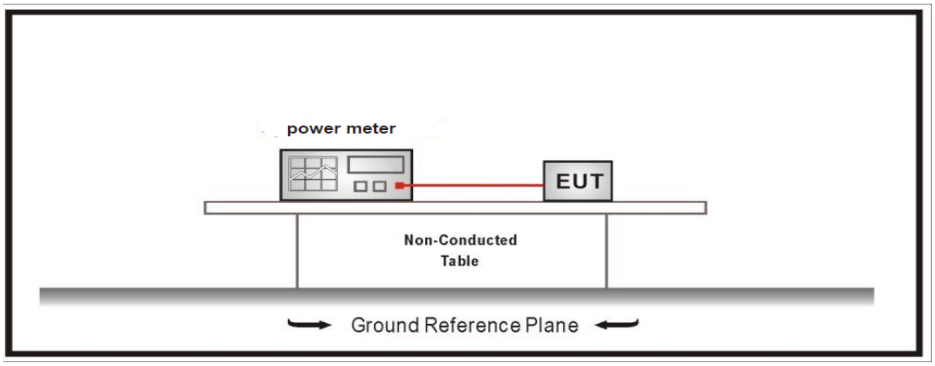
LIMITS

In band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500 KHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP	

Measured according to ANSI C63.10, Section 11.9.2.3.2 Method AVGPM-G

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (**a mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

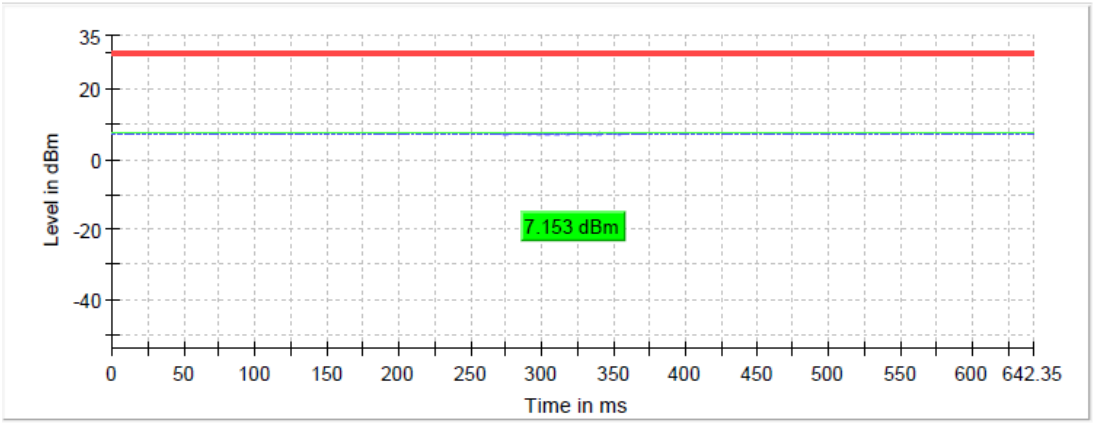
Maximum declared antenna gain: 0.7 dBi

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Maximum conducted power (dBm)	7.2	7.8	8.2
Maximum EIRP power (dBm)	7.9	8.5	8.9
Measurement uncertainty (dB)	<±0.78		

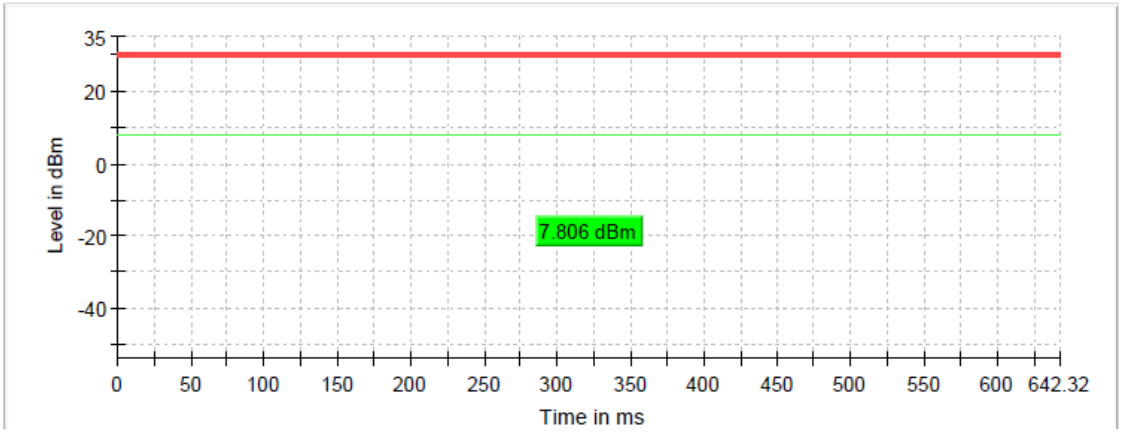
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER

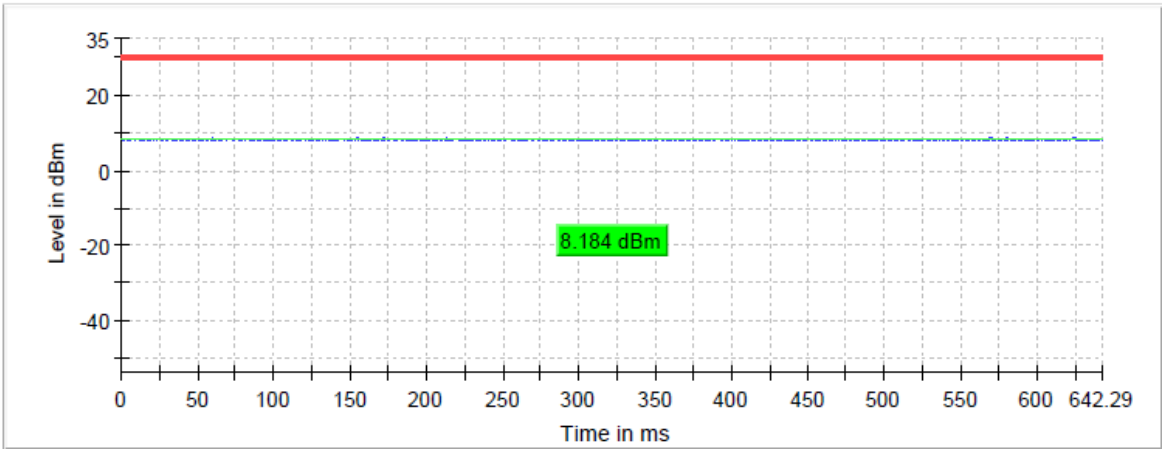
Lowest Channel



Middle Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 **(n mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

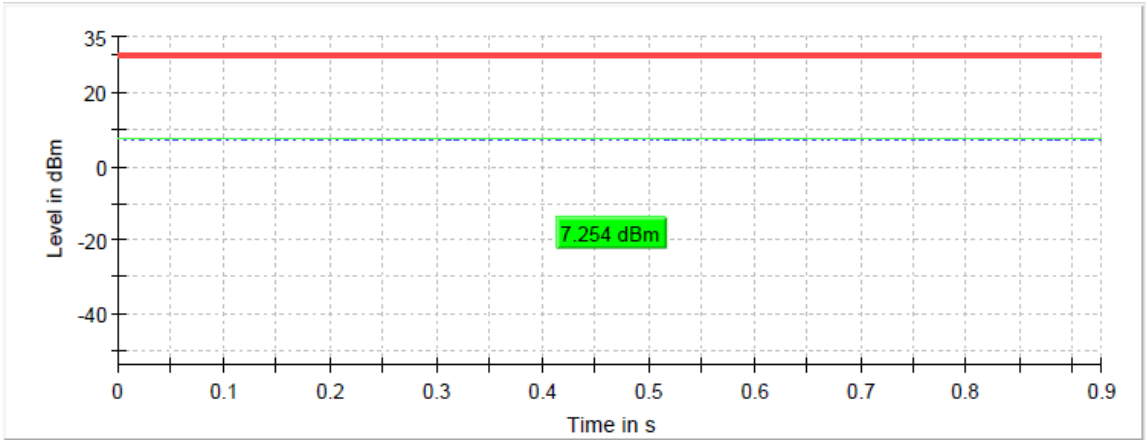
Maximum declared antenna gain: 0.7 dBi

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Maximum conducted power (dBm)	7.3	7.8	8.3
Maximum EIRP power (dBm)	8.0	8.5	9.0
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

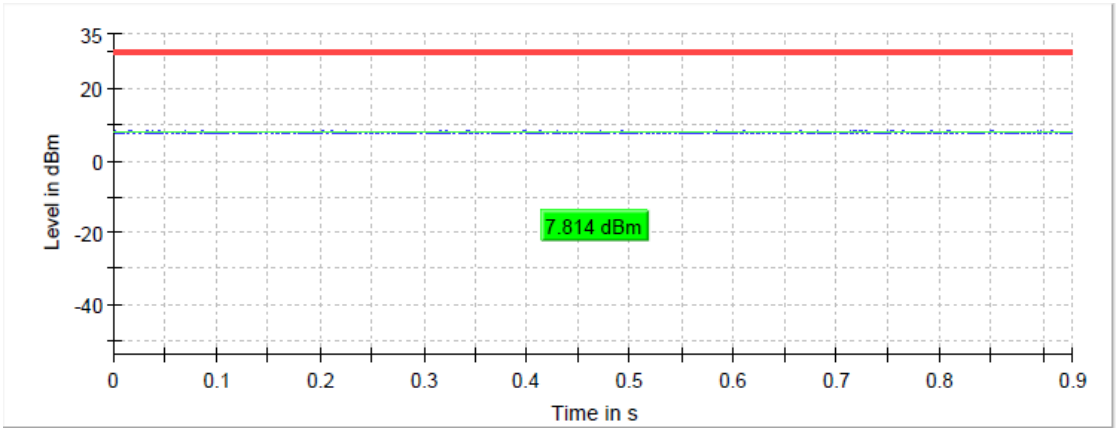
TEST RESULTS (Cont.):	**CONDUCTED OUTPUT POWER**

Lowest Channel

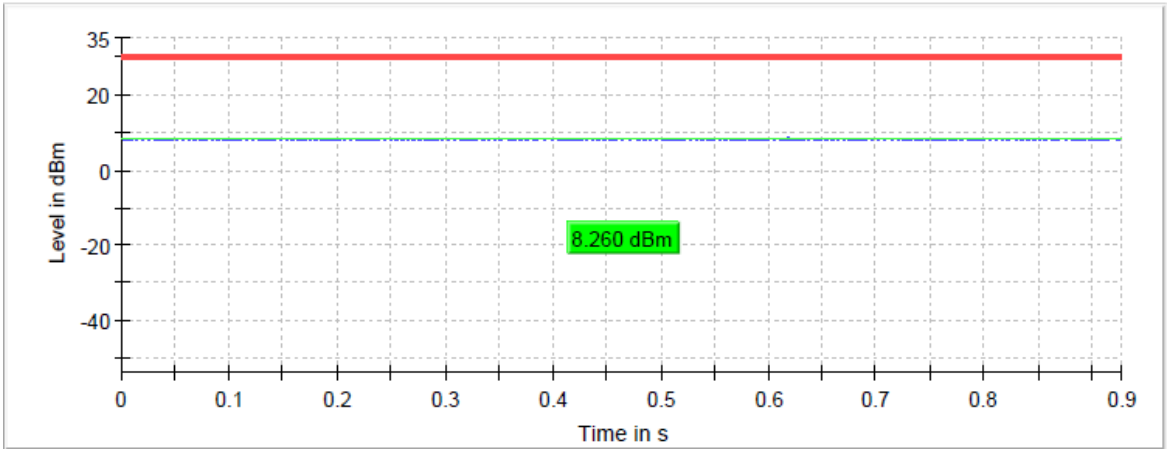


TEST RESULTS (Cont.)	

Middle Channel



Highest Channel



TEST RESULTS (Cont.):	n Mode (40 MHz)

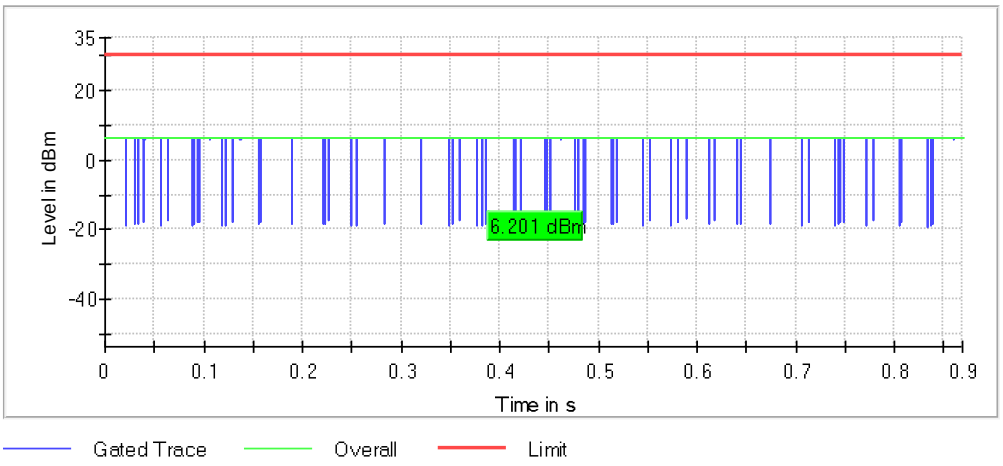
Maximum declared antenna gain: 0.7 dBi

	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
Maximum conducted power (dBm)	6.2	6.6
Maximum EIRP power (dBm)	6.9	7.3
Measurement uncertainty (dB)	<±0.78	

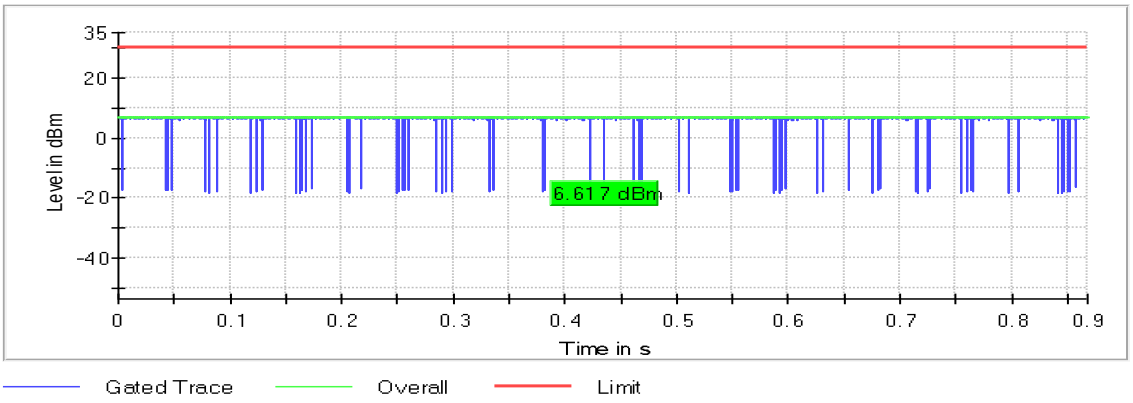
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER

Lowest Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 **(ac mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

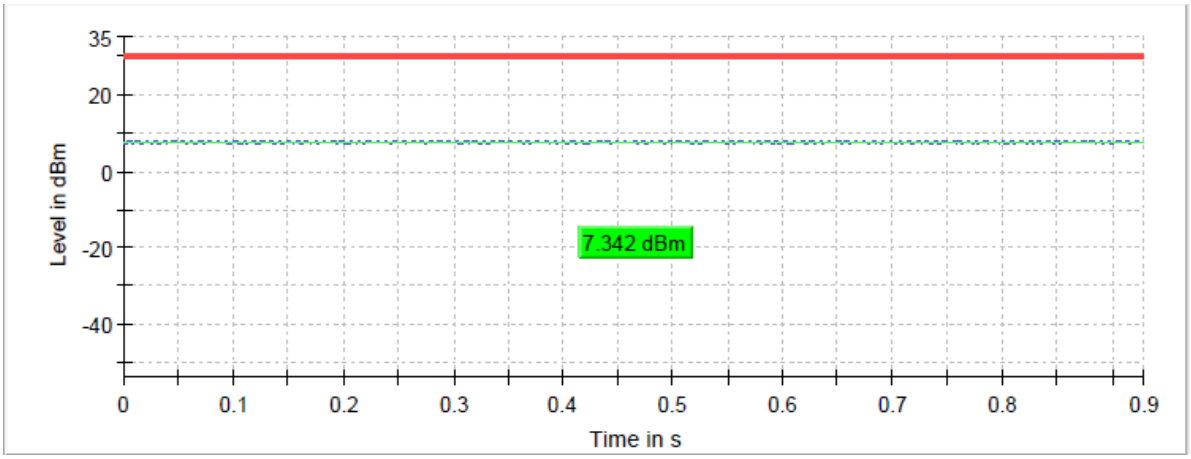
Maximum declared antenna gain: 0.7 dBi

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Maximum conducted power (dBm)	8.2	7.3	8.3
Maximum EIRP power (dBm)	8.9	8.0	9.0
Measurement uncertainty (dB)	<±0.78		

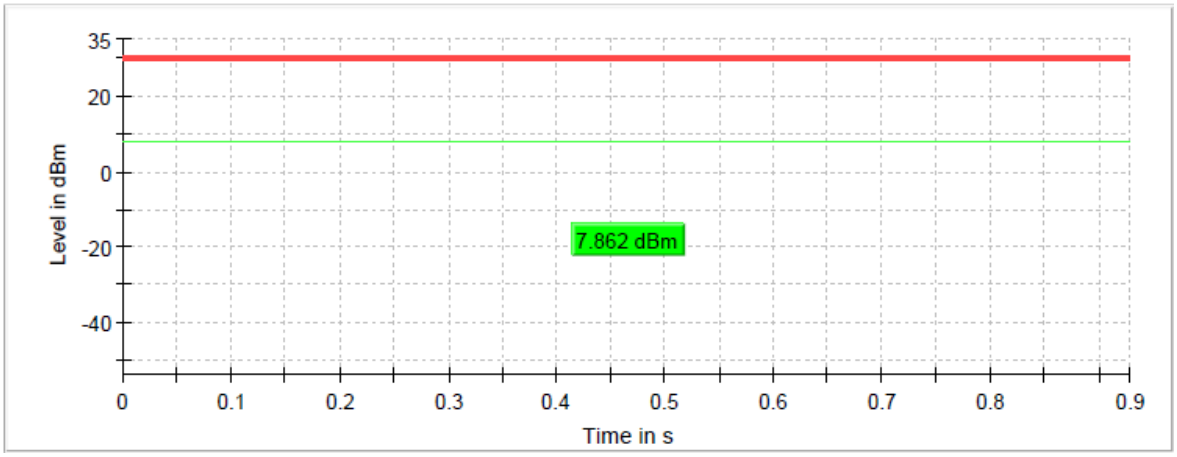
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.)	

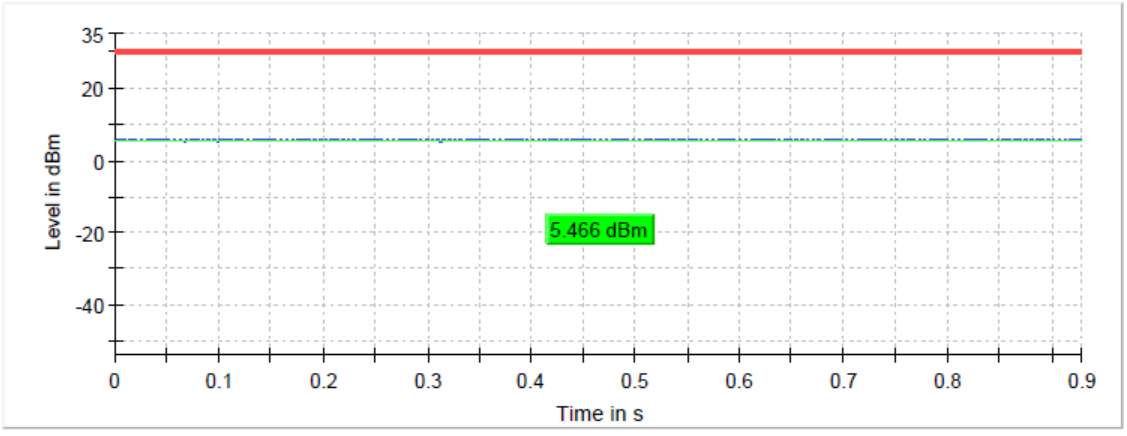
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.):	ac Mode (40 MHz)

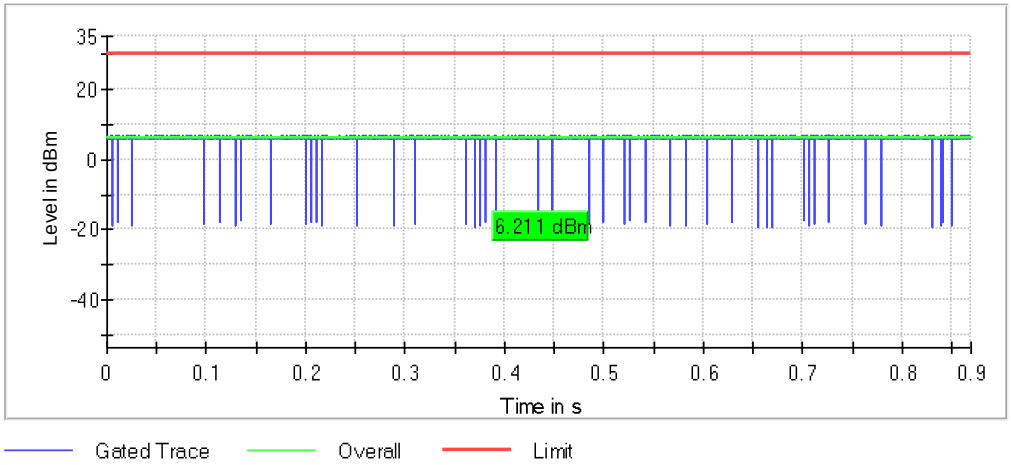
Maximum declared antenna gain: 0.7 dBi

	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
Maximum conducted power (dBm)	6.2	6.8
Maximum EIRP power (dBm)	6.9	7.5
Measurement uncertainty (dB)	<±0.78	

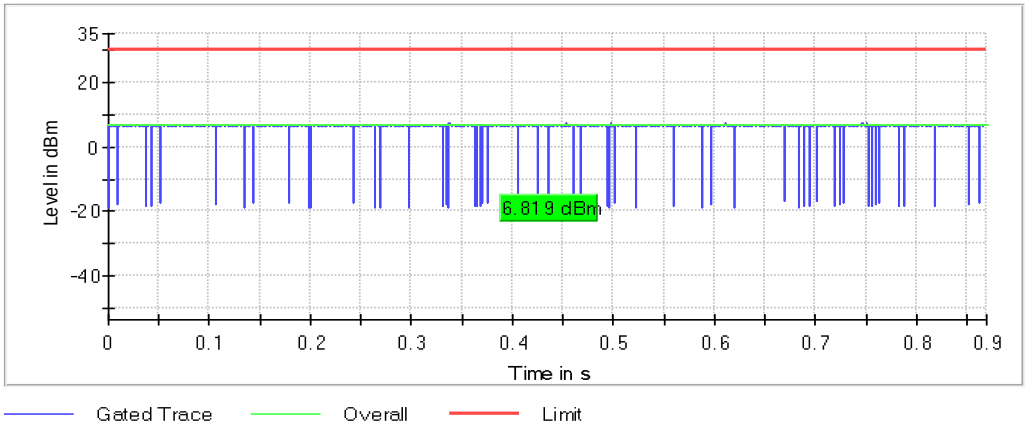
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER

Lowest Channel



Highest Channel



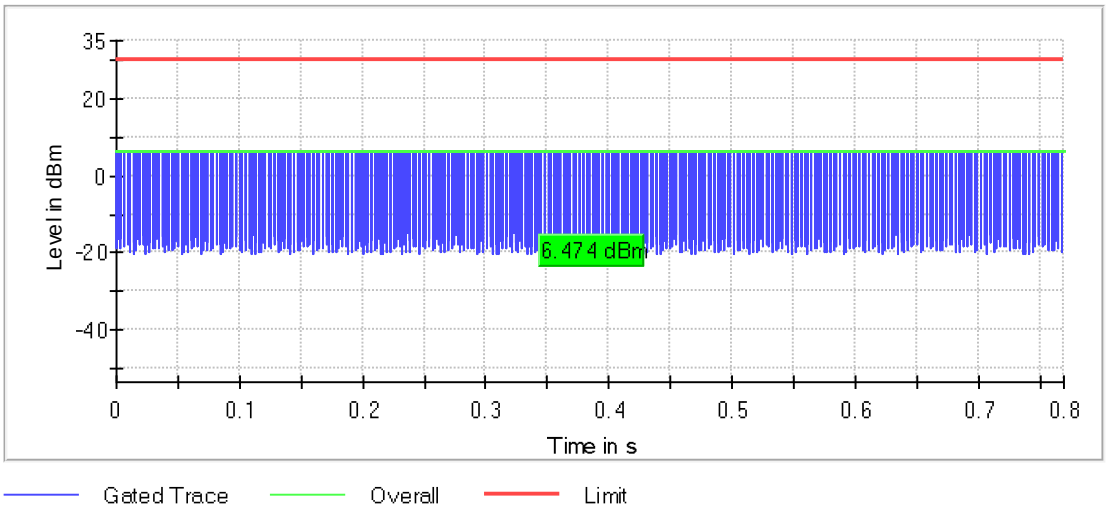
TEST RESULTS (Cont.)	ac Mode (80 MHz)

Maximum declared antenna gain: 0.7 dBi

	Lowest frequency 5745 MHz
Maximum conducted power (dBm)	6.5
Maximum EIRP power (dBm)	7.2
Measurement uncertainty (dB)	<±0.78

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel



TEST B.4: POWER SPECTRAL DENSITY

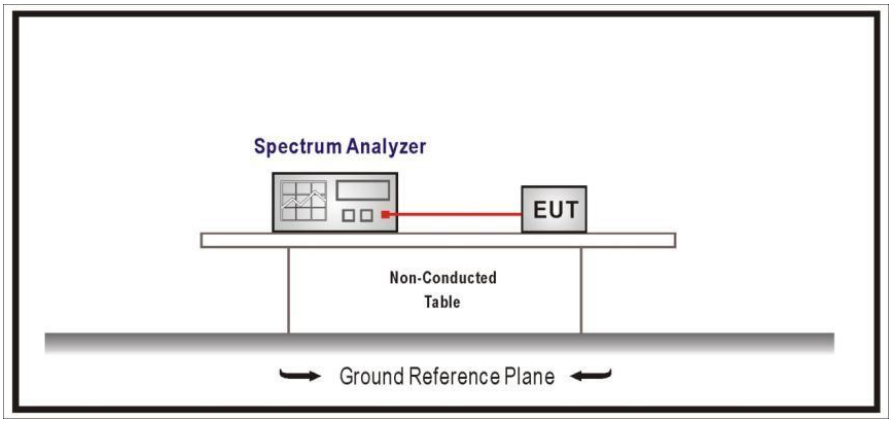
LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(a) (3) (5) and RSS-247 6.2.4.1

LIMITS

In the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500 KHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP	

For all modes, the maximum power spectral density level in the fundamental emission was measured using the method according to point F) (Method SA-1) of Guidance 789033 D02 General UNII Test Procedures New Rules v01.



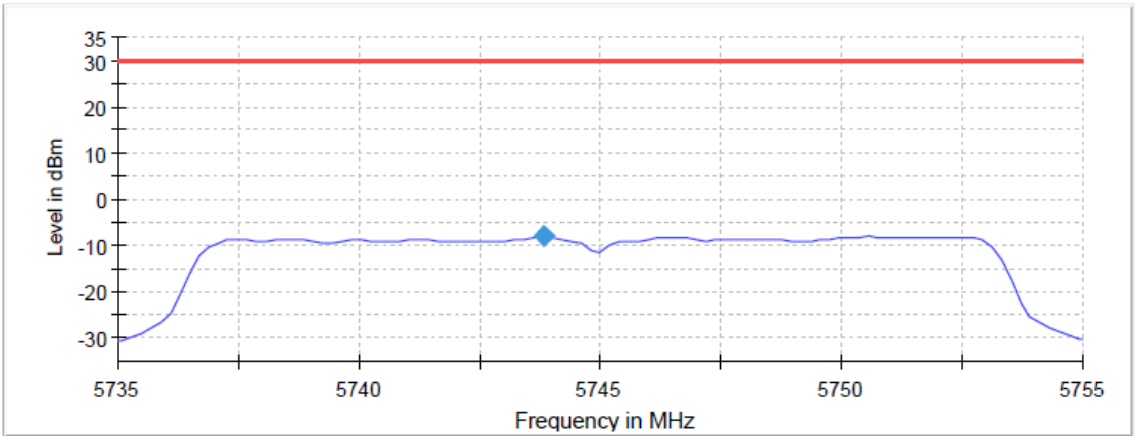
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 **(a mode)**
TEST RESULTS:	PASS

Bandwidth: 20 MHz

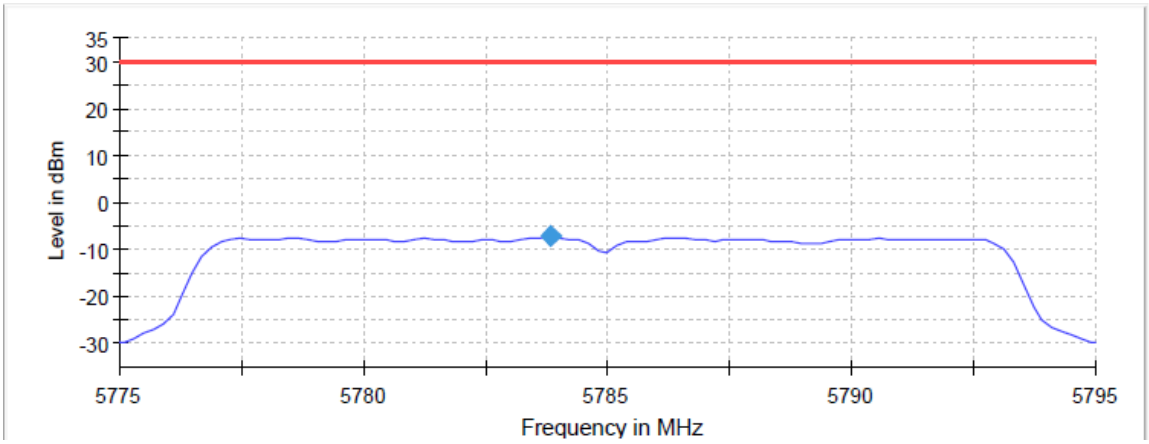
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Power spectral density (dBm)	-8.129	-7.269	-7.028
Measurement uncertainty (dB)	<±0.78		

TEST RESULTS (Cont.):	

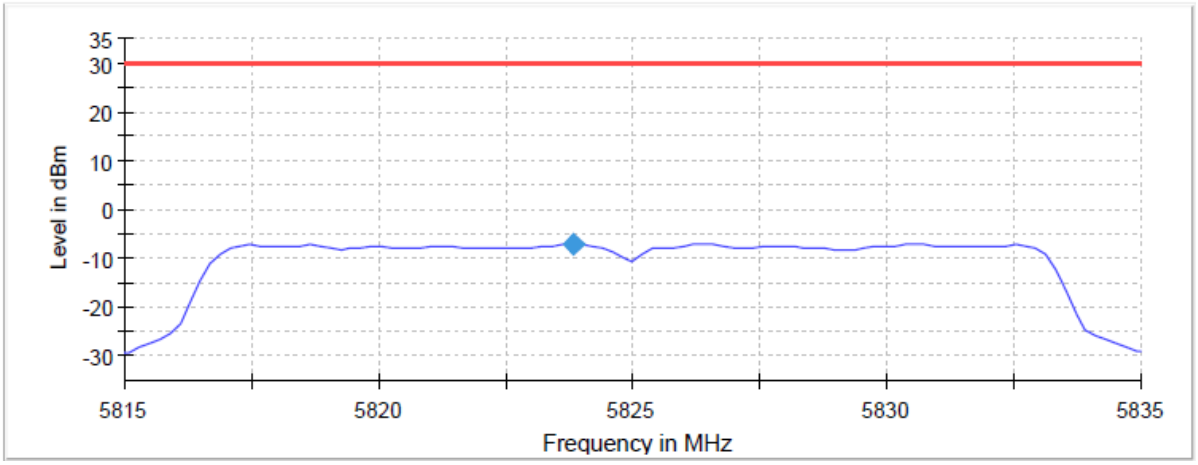
Low Channel



Middle Channel



High Channel



TEST RESULTS (Cont.):	

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500 GHz	5.81500 GHz
Stop Frequency	5.75500 GHz	5.79500 GHz	5.83500 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	500.000 KHz	500.000 KHz	500.000 KHz
VBW	2.000 MHz	2.000 MHz	2.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	Sweep	Sweep	Sweep
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.02 dB	0.30 dB	0.01 dB

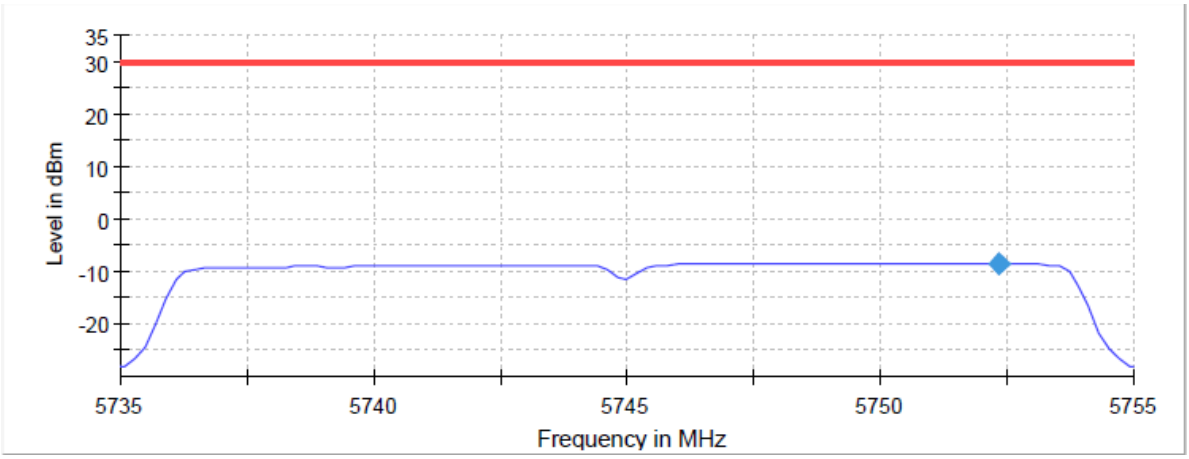
TEST RESULTS (Cont.):	
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (N mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

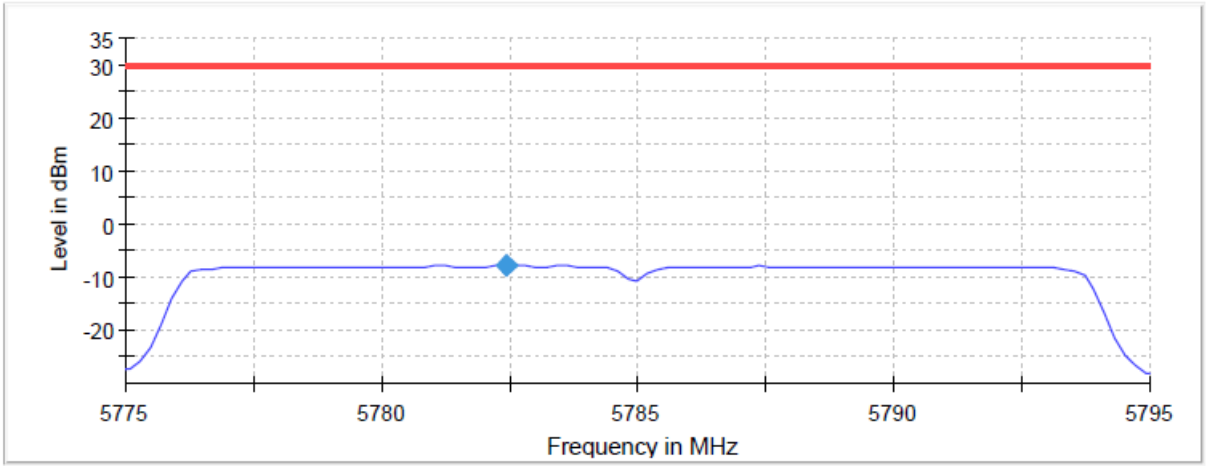
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Power spectral density (dBm)	-8.526	-7.953	-7.722
Measurement uncertainty (dB)	<±0.78		

TEST RESULTS (Cont.):	

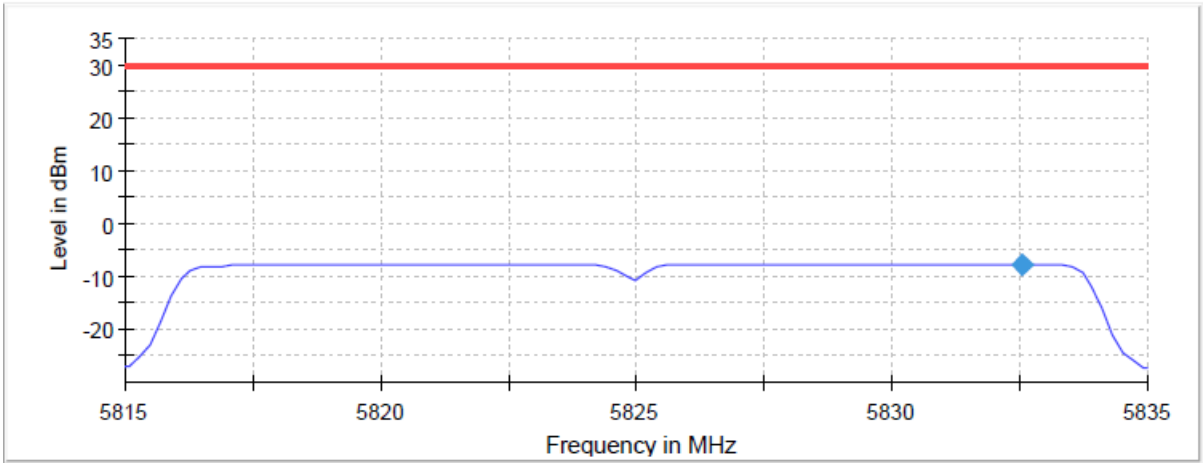
Low Channel



Middle Channel



High Channel



TEST RESULTS (Cont.):	

Measurement

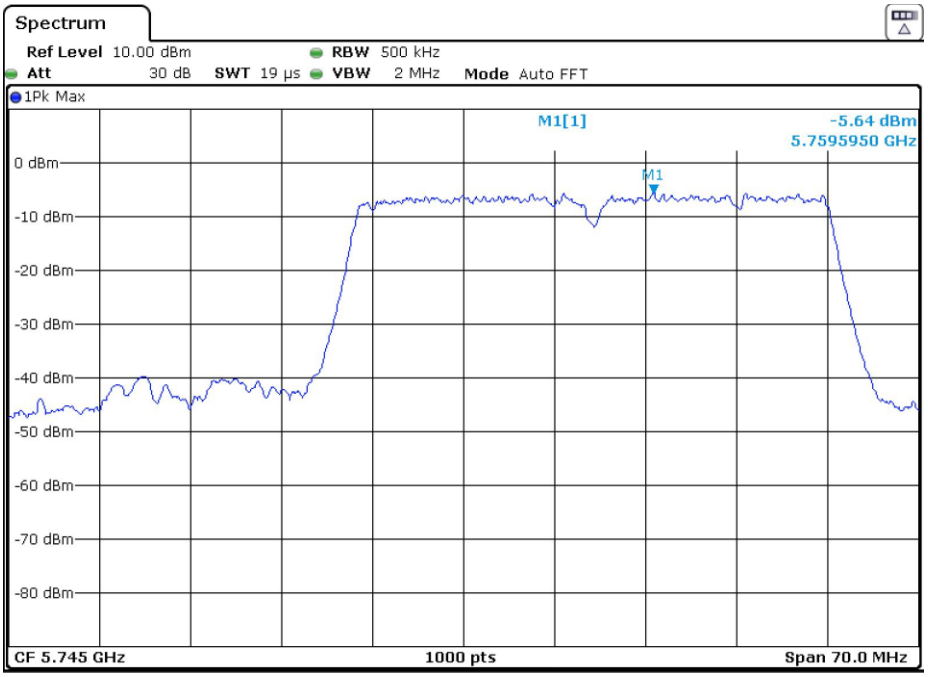
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.73500	5.77500	5.81500
Stop Frequency	5.75500	5.79500	5.83500
Span	20.000	20.000	20.000
RBW	500.000	500.000	500.000
VBW	2.000 MHz	2.000 MHz	2.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	10.000	10.000	10.000
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	Sweep	Sweep	Sweep
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max.	4 / max.	4 / max.
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.03 dB	0.09 dB	0.07 dB

TEST RESULTS (Cont.):	n Mode(40 MHz)

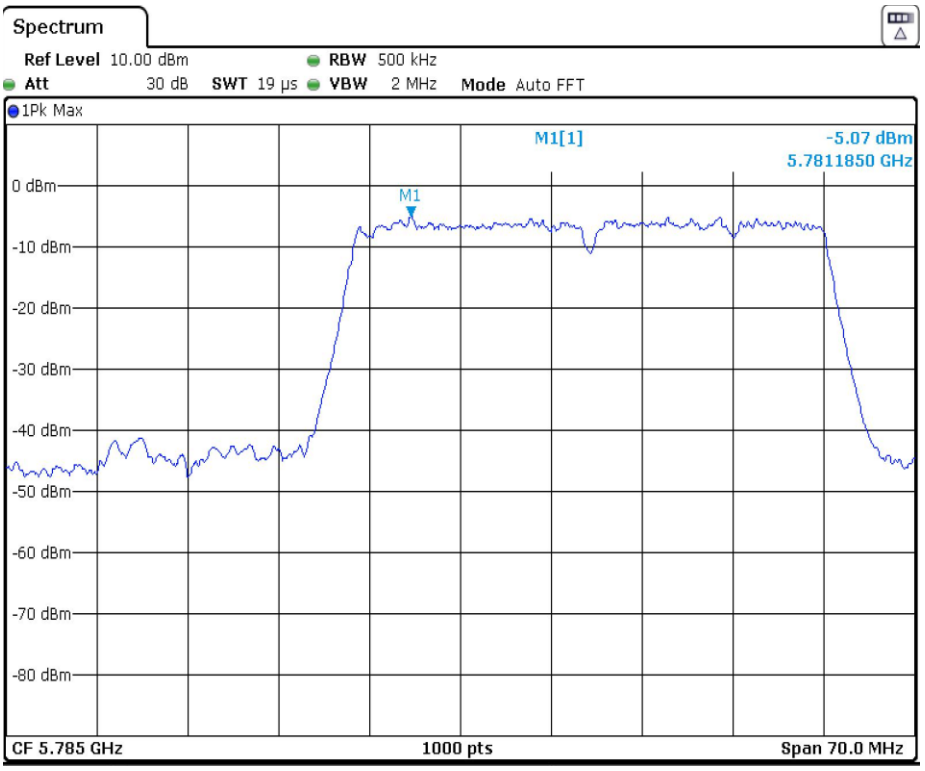
	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
Power spectral density (dBm)	-5.64	-5.07
Measurement uncertainty (dB)	<±0.78	

TEST RESULTS (Cont.):	

Lowest Channel



Highest Channel

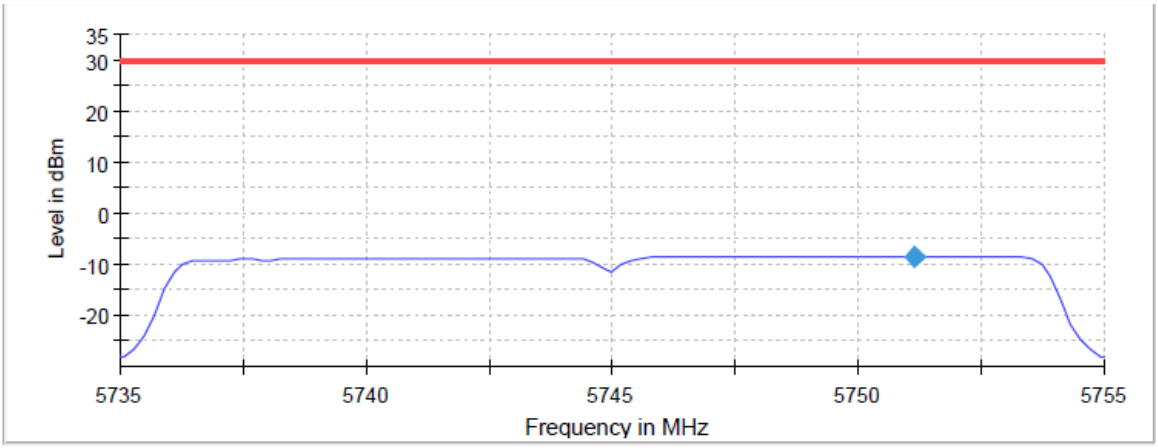


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 **(ac mode)**
TEST RESULTS:	PASS

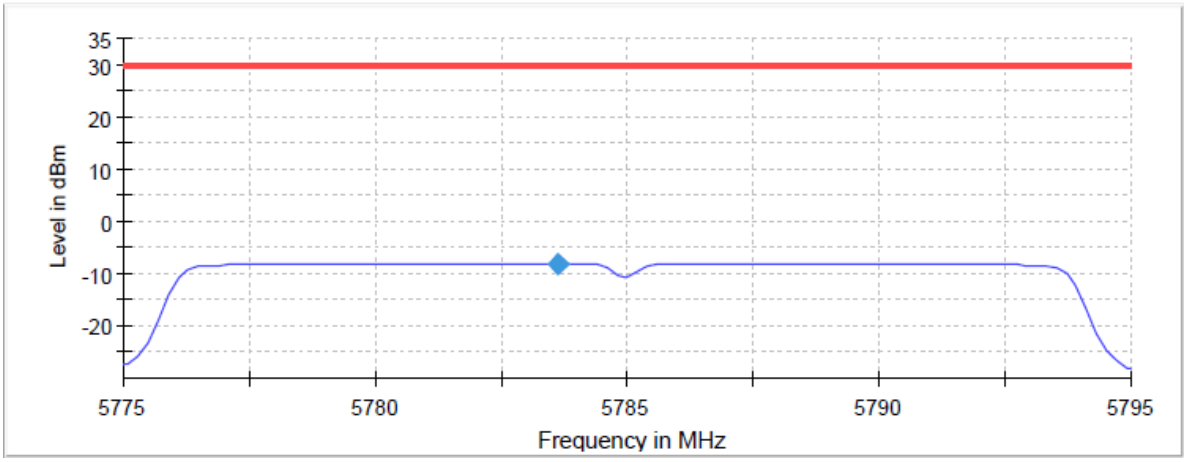
Bandwidth: 20 MHz

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Power spectral density (dBm)	-8.430	-8.034	-7.792
Measurement uncertainty (dB)	<±0.78		

Lowest Channel

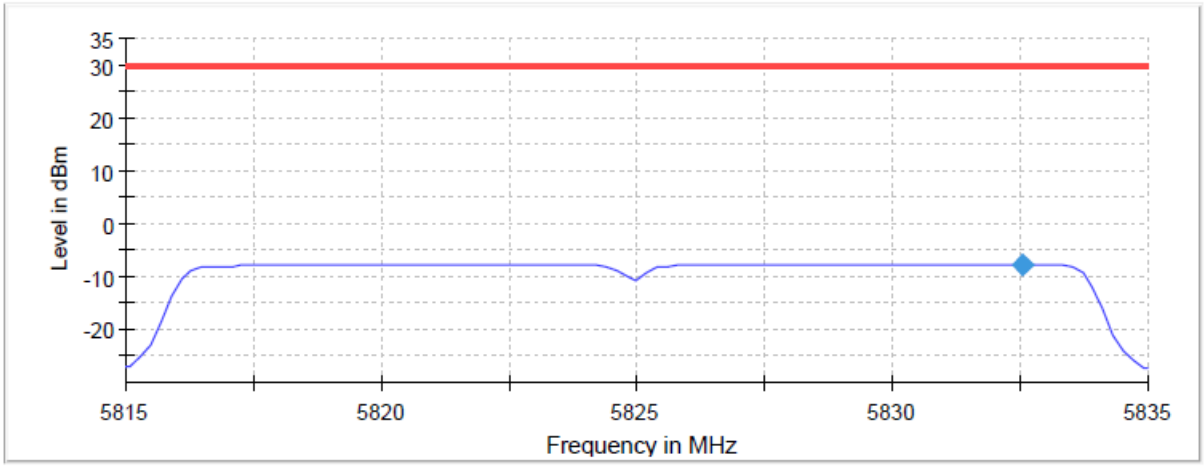


Middle Channel



TEST RESULTS (Cont.)	

Highest Channel



Measurement

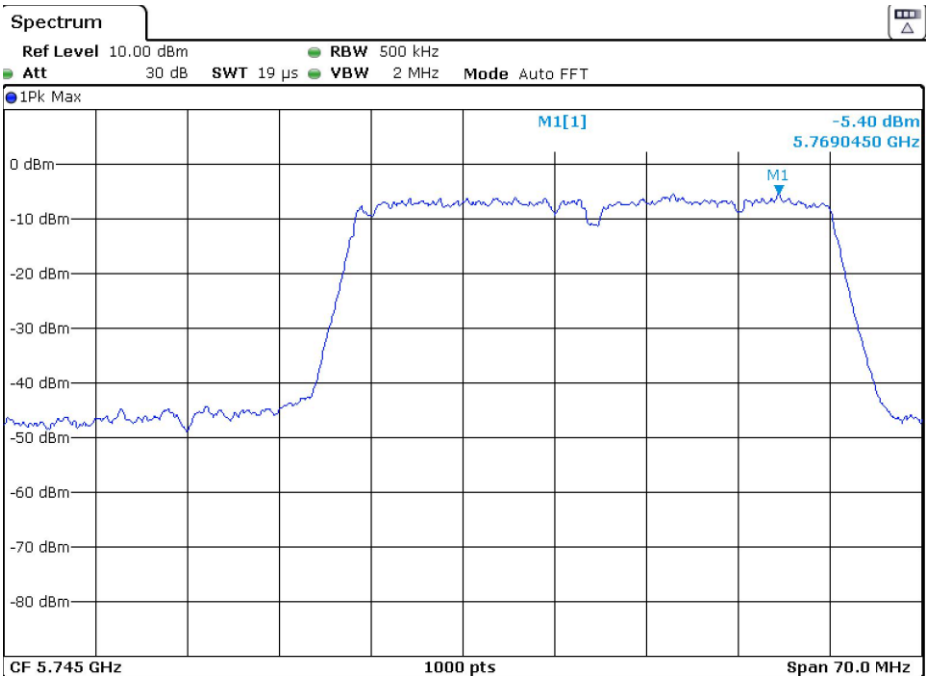
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500 GHz	5.81500 GHz
Stop Frequency	5.75500 GHz	5.79500 GHz	5.83500 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	500.000 KHz	500.000 KHz	500.000 KHz
VBW	2.000 MHz	2.000 MHz	2.000 MHz
SweepPoints	101	101	101
Sweeptime	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
SweepCount	3	3	3
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweeptype	Sweep	Sweep	Sweep
Preamp	off	off	off
Stablemode	Trace	Trace	Trace
Stablevalue	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 150	4 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable Difference	0.05 dB	0.11 dB	0.02 dB

TEST RESULTS (Cont.):	ac Mode (40 MHz)

	Lowest frequency 5745 MHz	Highest frequency 5785 MHz
Power spectral density (dBm)	-5.40	-5.14
Measurement uncertainty (dB)	<±0.78	

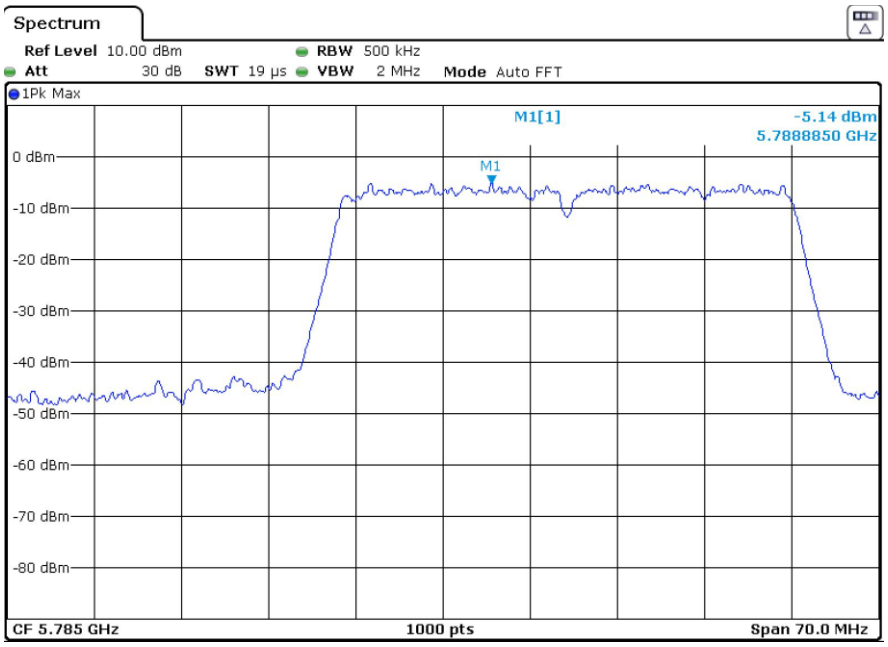
TEST RESULTS (Cont.):	

Lowest Channel



TEST RESULTS (Cont.):	

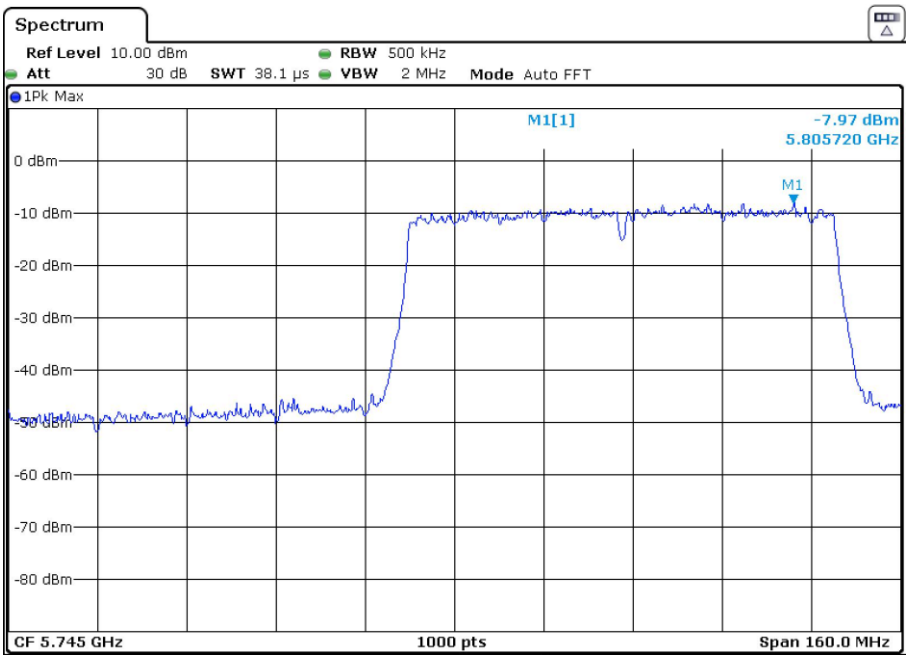
Highest Channel



TEST RESULTS (Cont.)	ac Mode (80 MHz)

	Lowest frequency 5745 MHz
Power spectral density (dBm)	-7.97
Measurement uncertainty (dB)	<±0.78

Lowest Channel



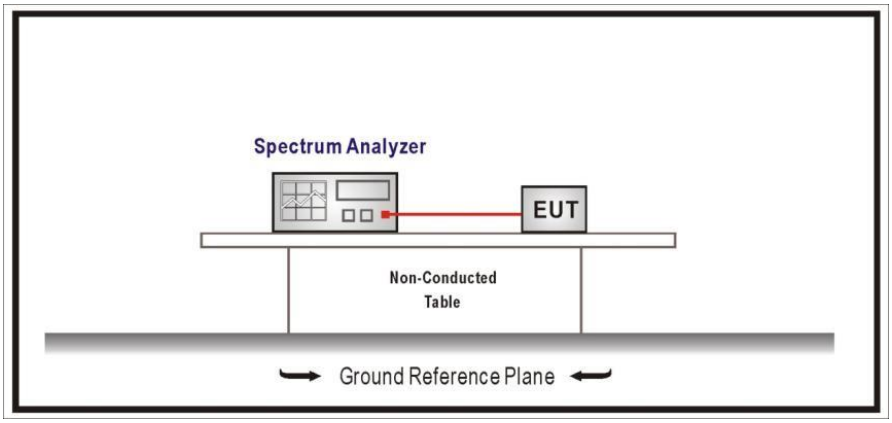
TEST B.5: BAND-EDGE EMISSIONS COMPLIANCE (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b)(4) and RSS-247 6.2.4.2

LIMITS

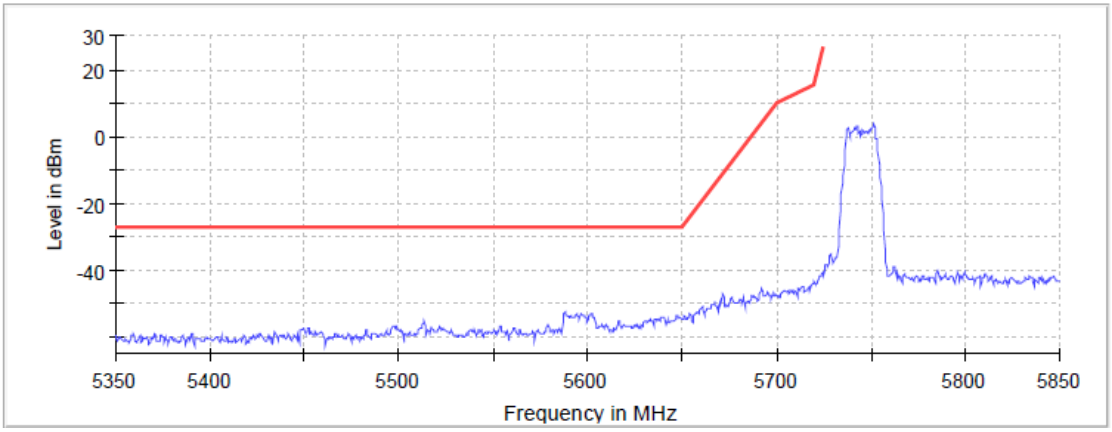
For transmitters operating in the 5.725 – 5.85 GHz band: all emissions shall be limited to a level of -27 dBm /MHz at 75 MHz or more above or below the band-edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

TEST SETUP	



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

LOWEST CHANNEL

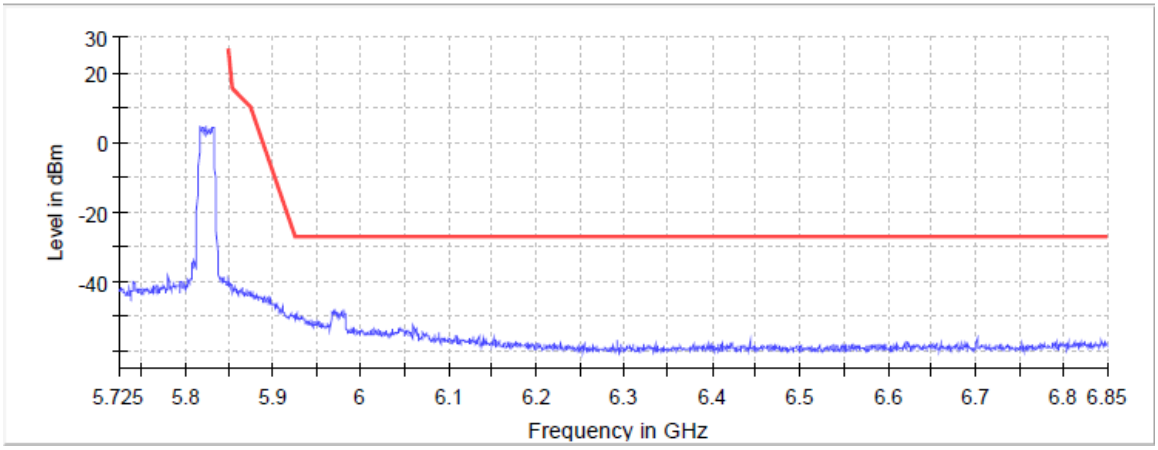


TEST RESULTS (Cont.)	

Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	750
Sweeptime	17.156 µs	51.469 µs
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	19 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.25 dB	0.00 dB

TEST RESULTS (Cont.):	Highest Channel



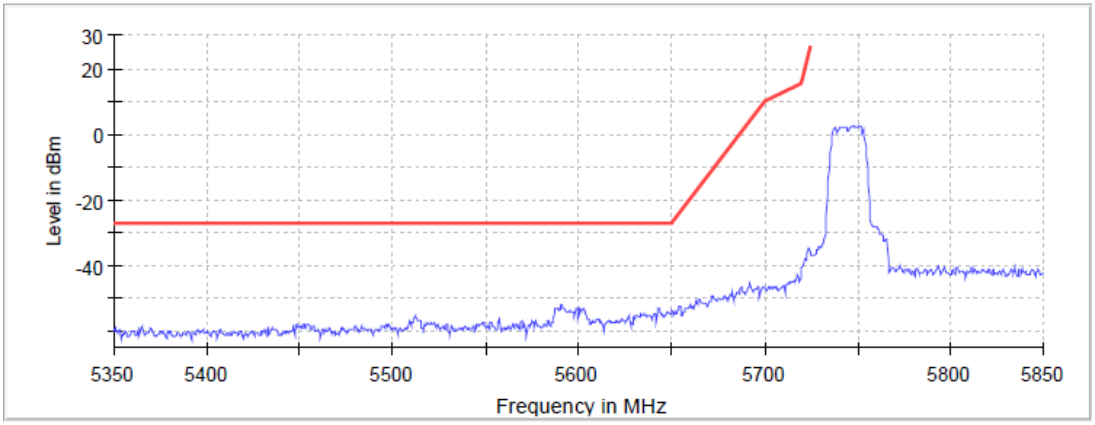
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	2000
Sweeptime	17.156 µs	2.00 ms
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	23 / max. 150	35 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.16 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel

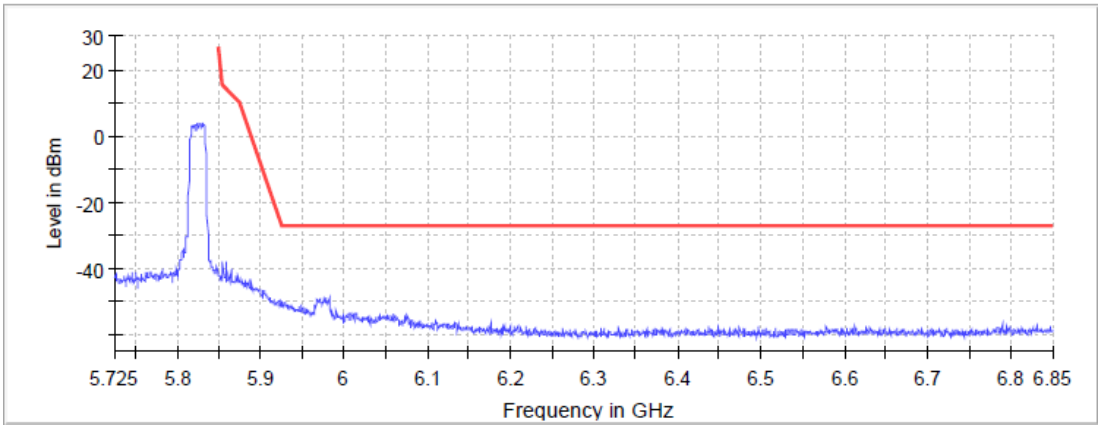


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	750
Sweeptime	17.156 µs	51.469 µs
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	17 / max. 150	12 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.00 dB

TEST RESULTS (Cont.):	

Highest Channel

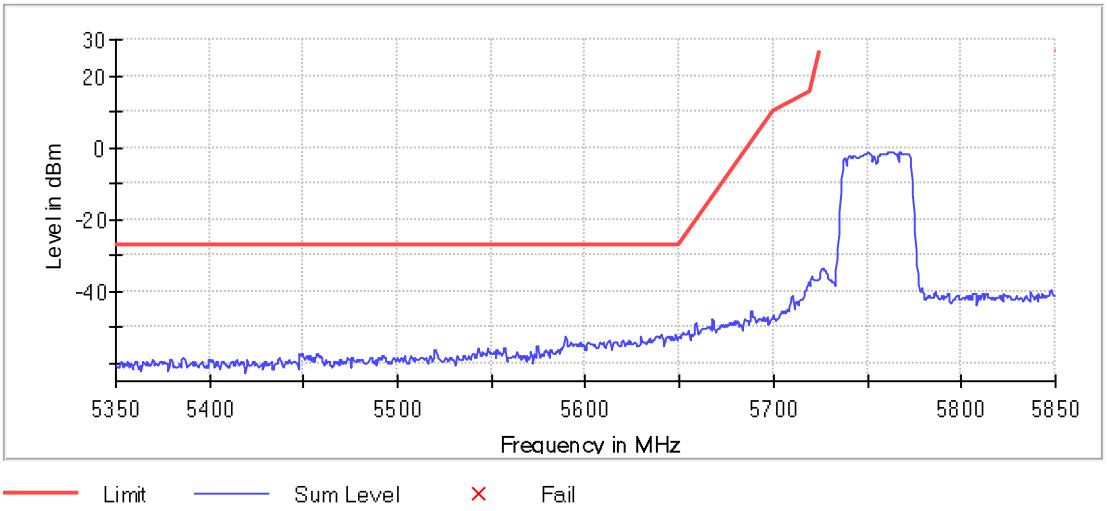


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	2000
Sweeptime	17.156 µs	2.00 ms
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	16 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.00 dB	0.16 dB

TEST RESULTS (Cont.):	n Mode (40 MHz)

Low**est Channel**

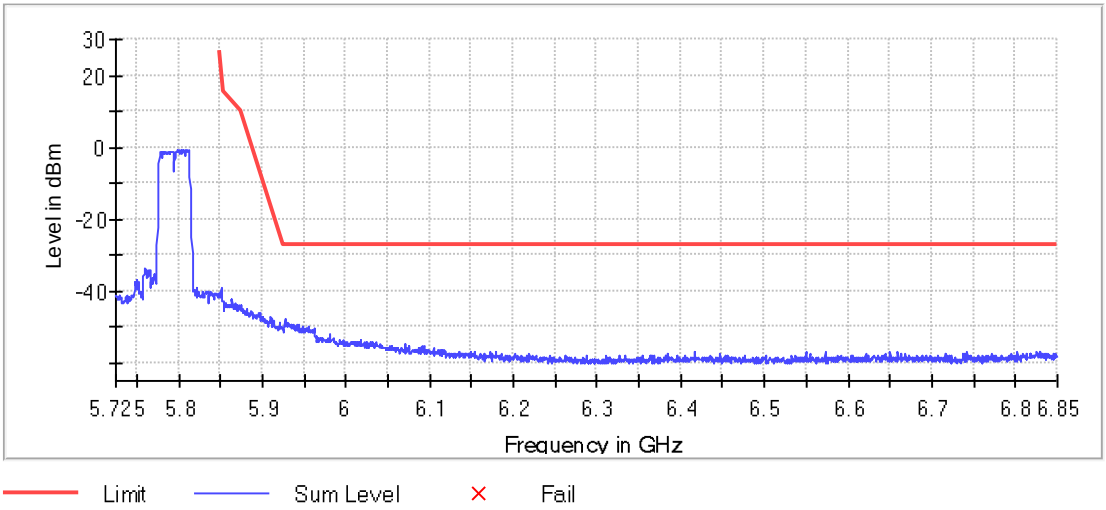


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	750
Sweeptime	17.156 µs	51.469 µs
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	23 / max. 150	12 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.14 dB	0.00 dB

TEST RESULTS (Cont.):	

Highest Channel



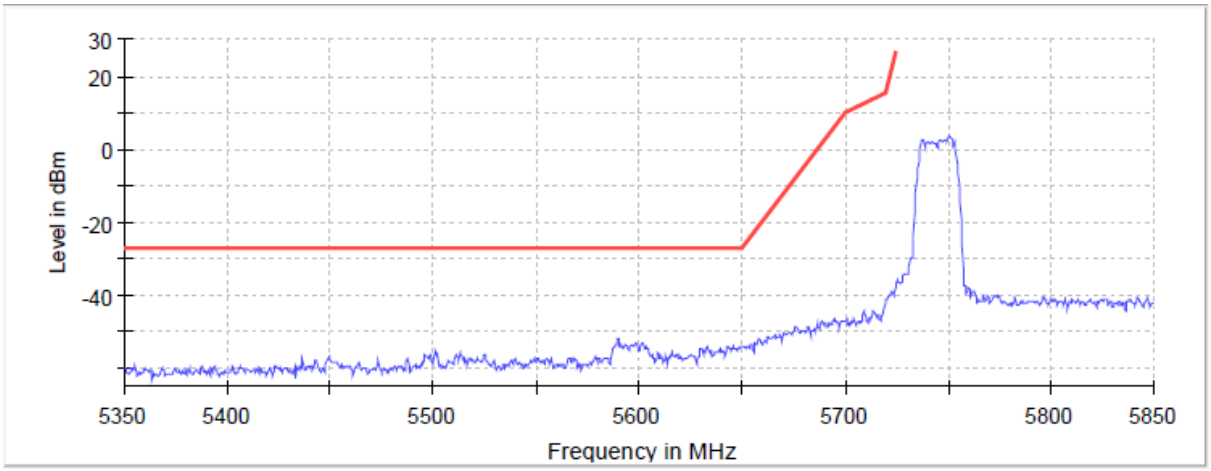
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	2000
Sweeptime	17.156 µs	2.00 ms
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 150	49 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.40 dB	0.38 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mdoe)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel:

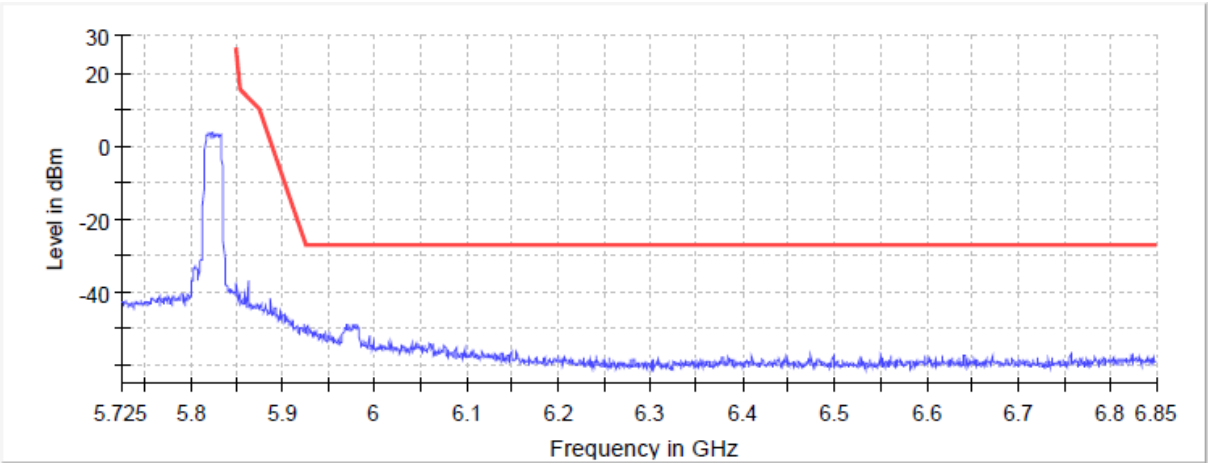


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	750
Sweeptime	17.156 µs	51.469 µs
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	18 / max. 150	9 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.14 dB	0.00 dB

TEST RESULTS (Cont.):	

Highest Channel

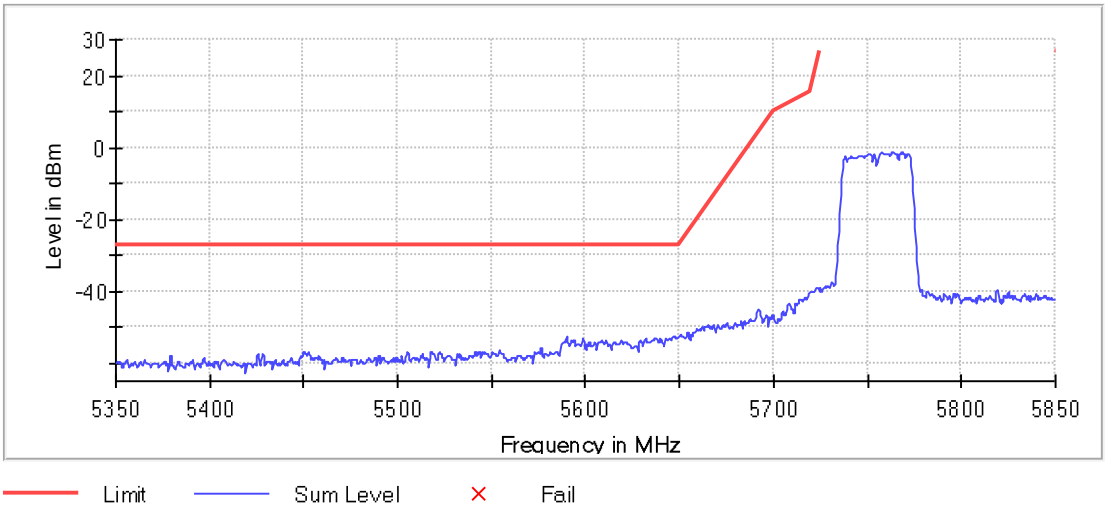


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	2000
Sweeptime	17.156 µs	2.00 ms
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	12 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.00 dB

TEST RESULTS (Cont.):	ac mode (40 MHz)

Low**est Channel**

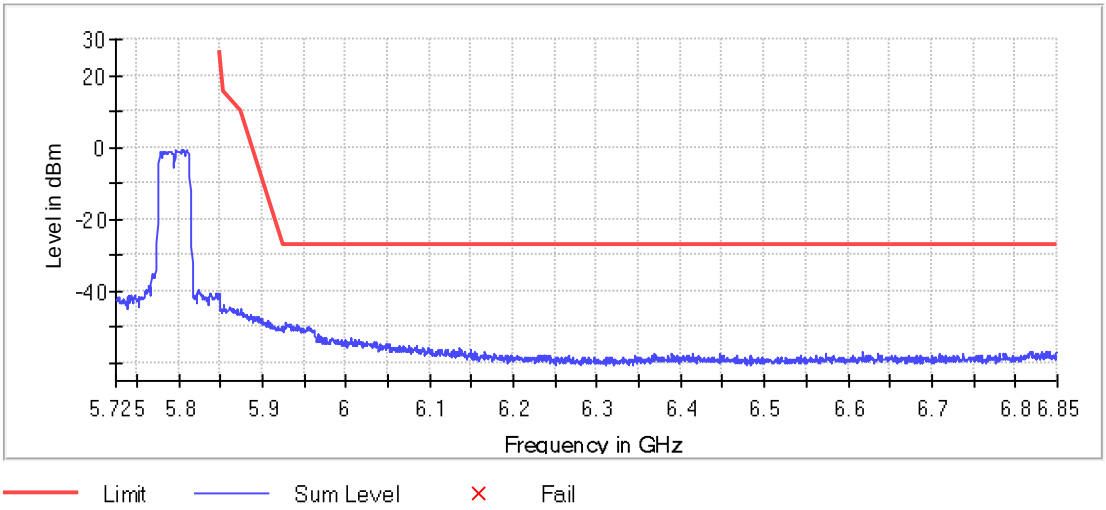


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	750
Sweeptime	17.156 µs	51.469 µs
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	18 / max. 150	26 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.35 dB	0.00 dB

TEST RESULTS (Cont.):	

Highest Channel

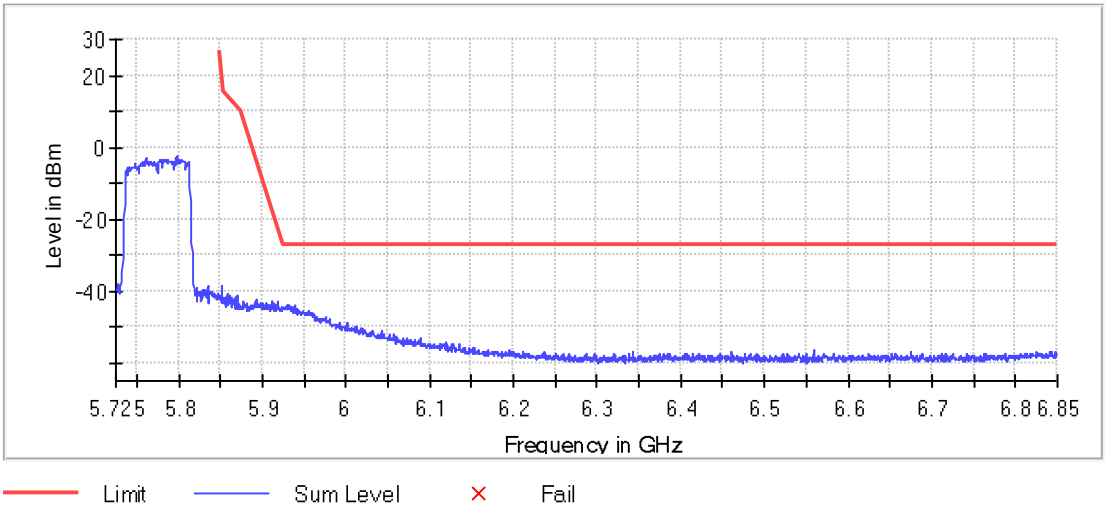


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	2000
Sweeptime	17.156 µs	2.00 ms
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / max. 150	35 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.04 dB

TEST RESULTS (Cont.):	ac mode (80 MHz)

Highest Channel



Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
SweepPoints	250	2000
Sweeptime	17.156 µs	2.00 ms
Reference Level	10.000 dBm	-10.000 dBm
Attenuation	30.000 dB	10.000 dB
Detector	Maxpeak	Maxpeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	33 / max. 150	89 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.44 dB	0.02 dB

TEST B.6: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b) (4)(6)(7) and RSS-247 6.2.4.2

LIMITS

For transmitters operating in the 5.725 – 5.85 GHz band: 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 increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) / RSS-Gen):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function

TEST SETUP	

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

For radiated emissions in the range 1-40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

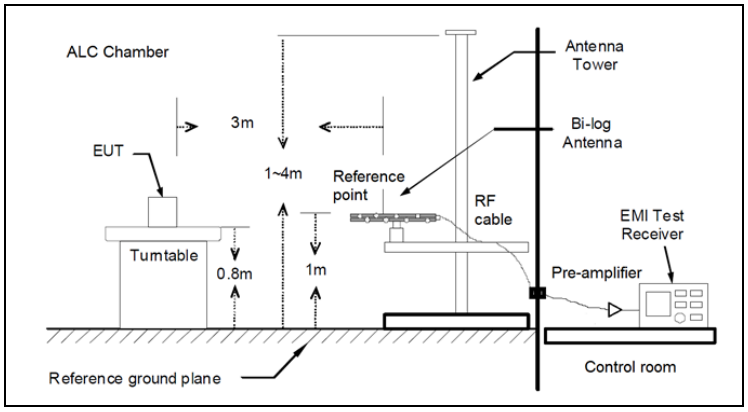
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360º and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

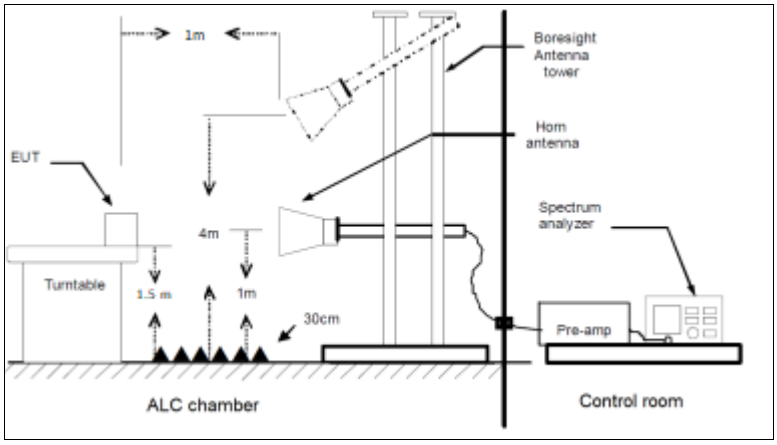
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)	

Radiated measurements Setup f < 1 GHz



Radiated measurements setup f > 1 GHz



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Co-Location

The test was performed with the equipment transmitting first with only the WiFi 5 GHz (WLAN0 CORE0) radio and repeated with the 2.4 GHz BT-EDR (WLAN 0), WiFi 2.4GHz (WLAN0 CORE1) radios transmitting simultaneously to check the impact of the co-location of the other radio interfaces. The results and plots below show the worst results obtained.

Frequency range 30 MHz – 1000 MHz

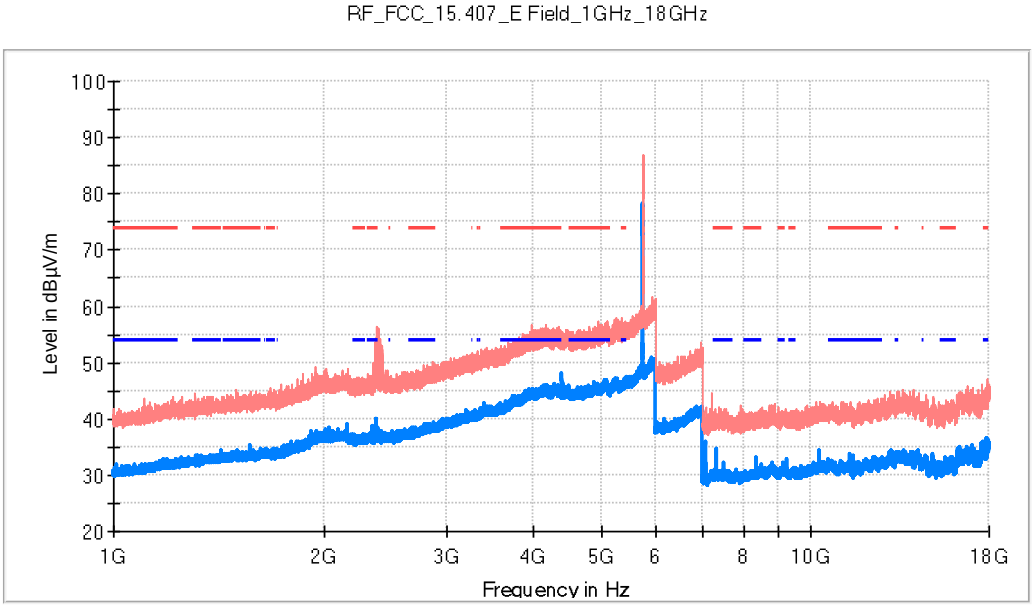
The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**1 GHz – 18 GHz**

Low Channel

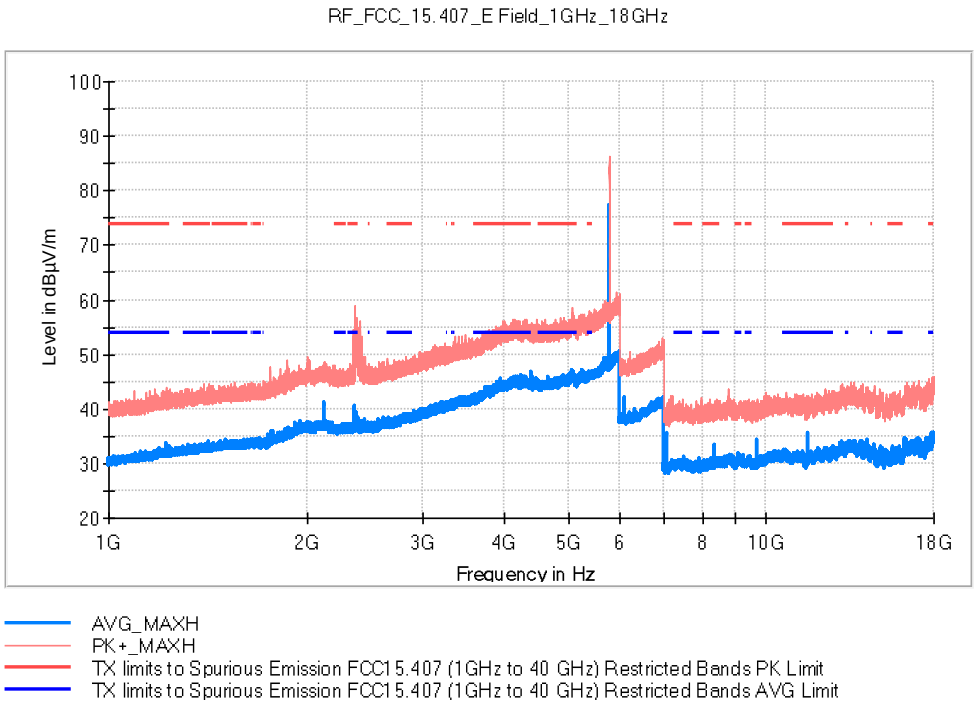


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
5752.343750	84.53	78.18	V	Fundamental
10288.800000	40.15	34.22	H	

TEST RESULTS (Cont.)	

Middle Channel

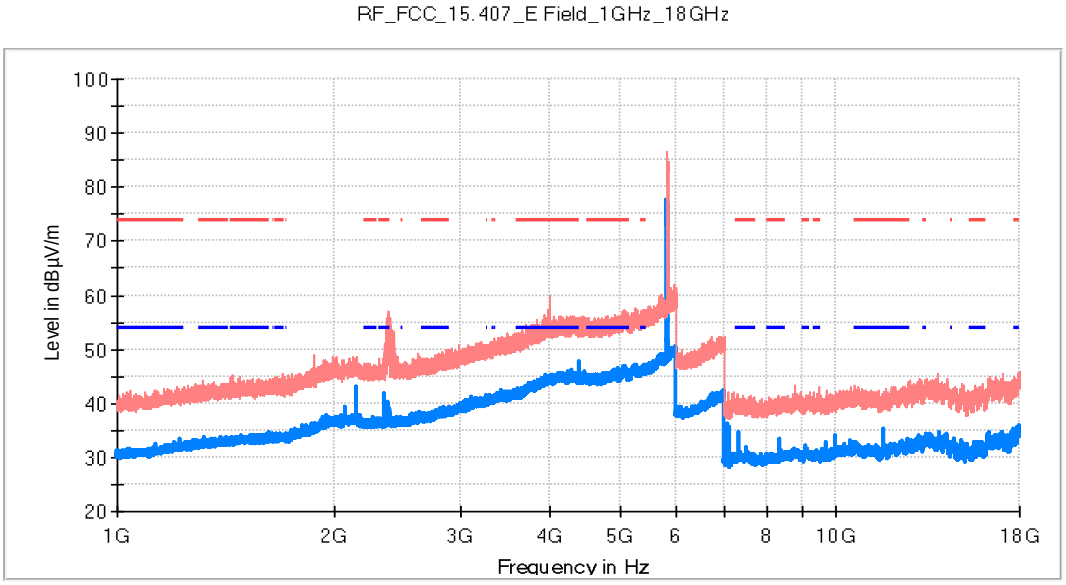


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
5791.093750	84.49	77.29	V	Fundamental
11570.000000	40.95	35.63	V	

TEST RESULTS (Cont.)	

High Channel

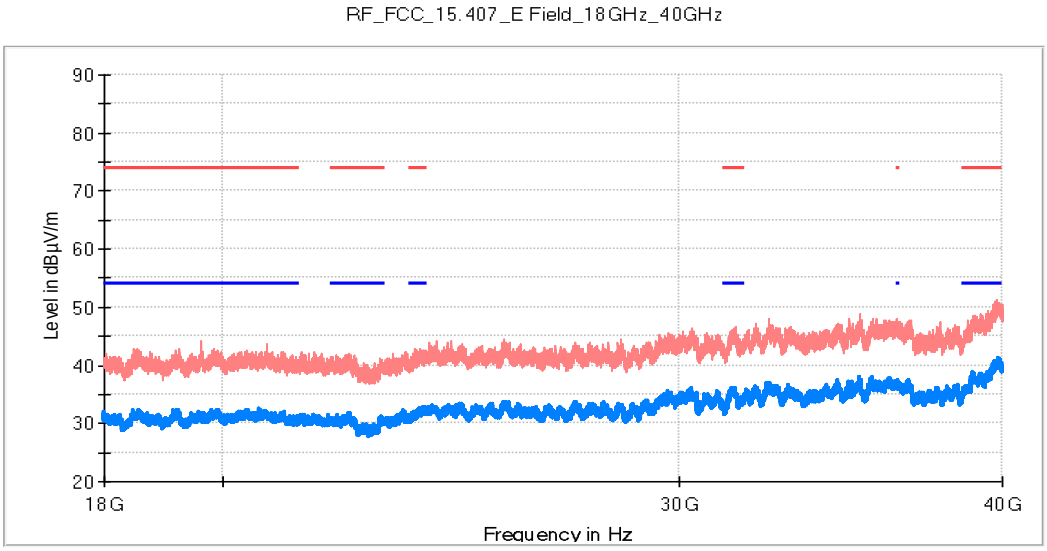


Maximizations

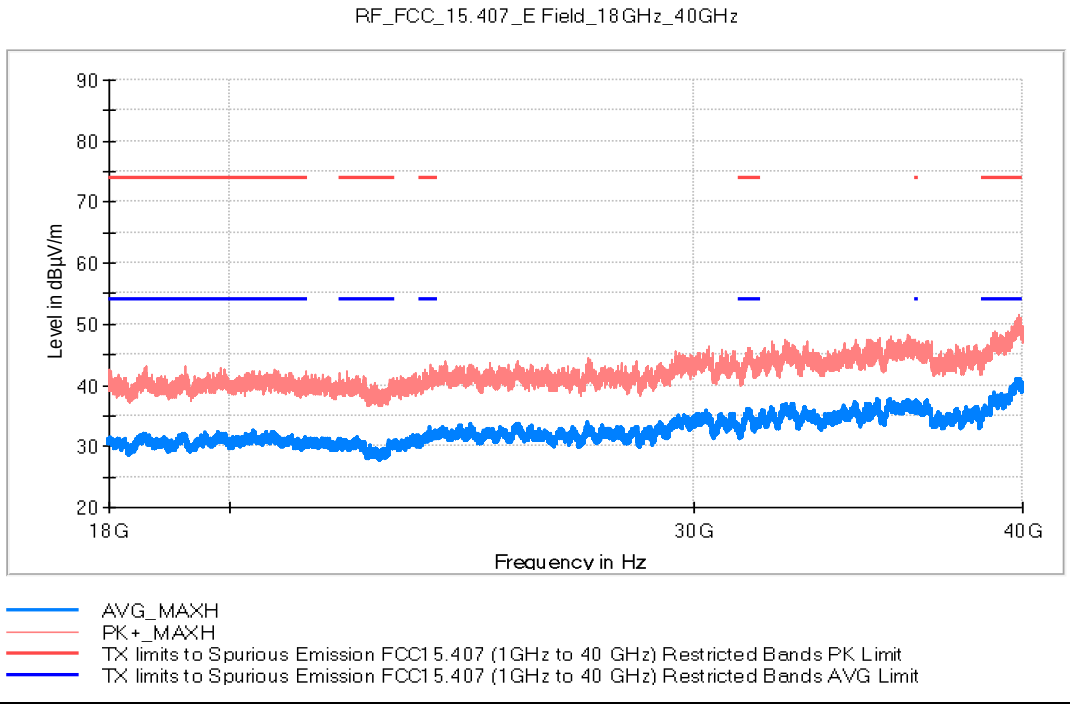
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
5831.875000	84.29	77.72	H	Fundamental
11650.000000	41.79	35.29	V	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Low Channel

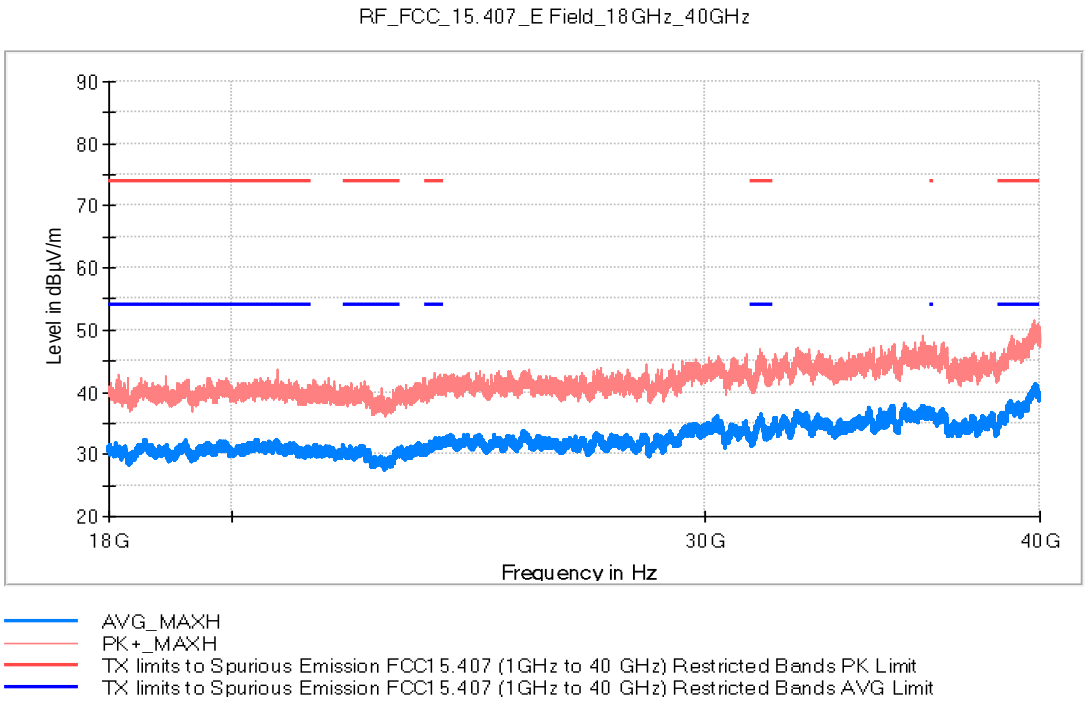


Middle Channel



TEST RESULTS (Cont.)	

High Channel



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Co-Location

The test was performed with the equipment transmitting first with only the WiFi 5 GHz (WLAN0 CORE0) radio and repeated with the 2.4 GHz BT-EDR (WLAN 0), WiFi 2.4GHz (WLAN0 CORE1) radios transmitting simultaneously to check the impact of the co-location of the other radio interfaces. The results and plots below show the worst results obtained.

Frequency range 30 MHz – 1000 MHz

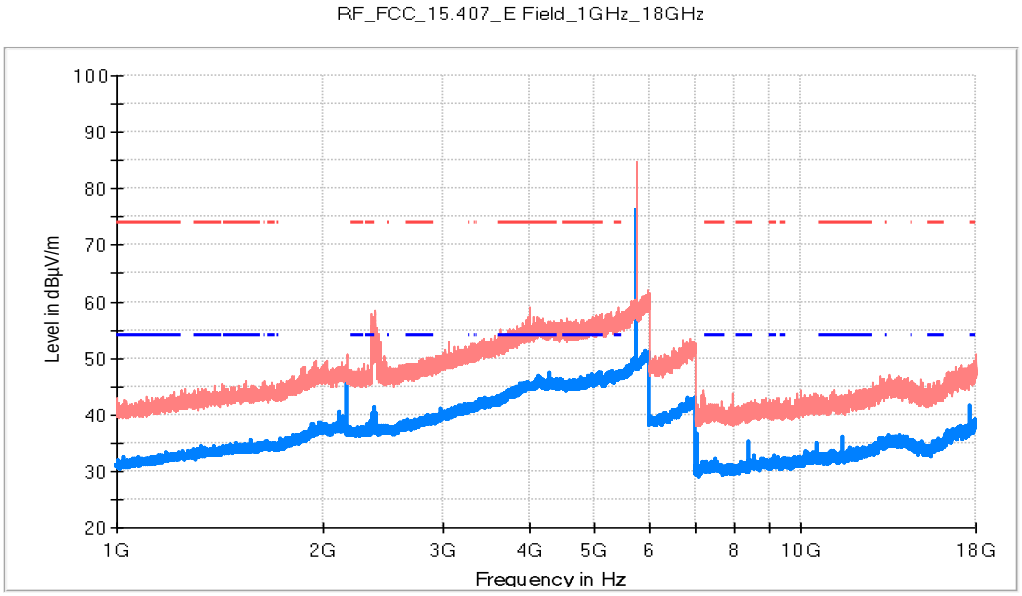
The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

TEST RESULTS (Cont.)	n mode (20 MHz)
FREQUENCY RANGE	1 GHz – 18 GHz

Low Channel

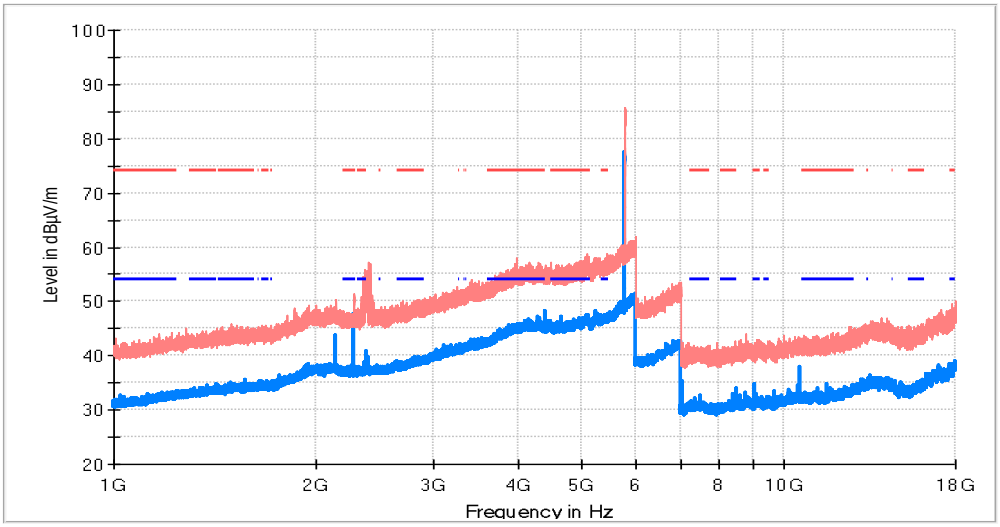


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2172.656250	50.06	46.78	V	
5744.062500	82.50	76.14	V	Fundamental
7055.200000	41.81	36.58	H	
8378.000000	42.17	35.21	V	
11490.000000	42.71	35.96	V	
17638.400000	46.91	41.58	V	

TEST RESULTS (Cont.)	

Middle Channel

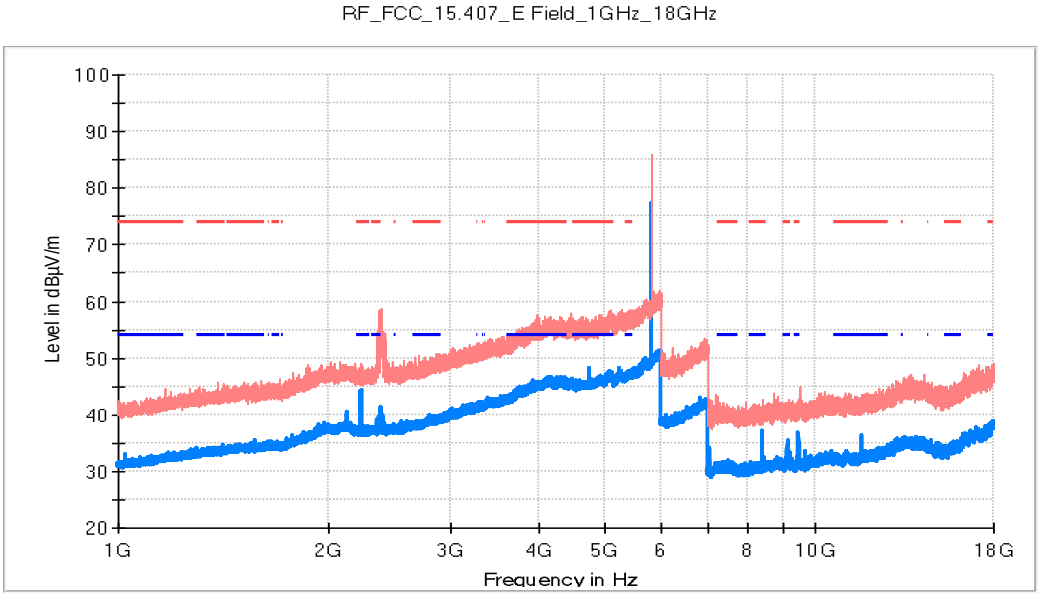


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2141.406250	49.40	43.87	V	
2280.625000	51.46	47.79	V	
5782.343750	83.38	77.50	V	Fundamental
7055.200000	41.24	35.36	V	
10582.800000	43.20	38.00	H	
11569.600000	42.99	34.70	H	

TEST RESULTS (Cont.)	

High Channel

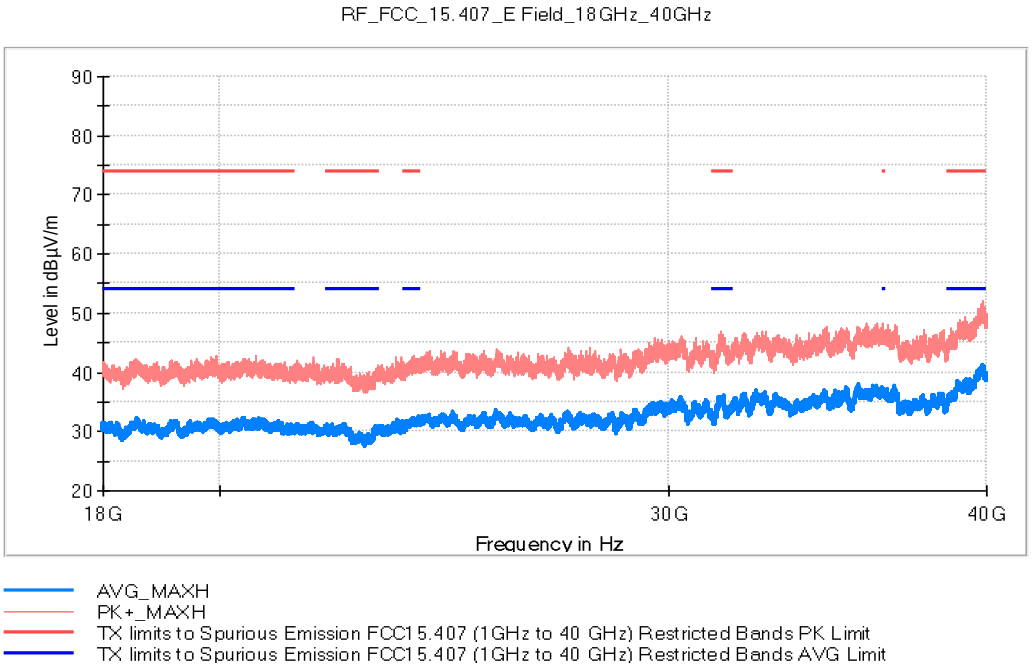


Maximizations

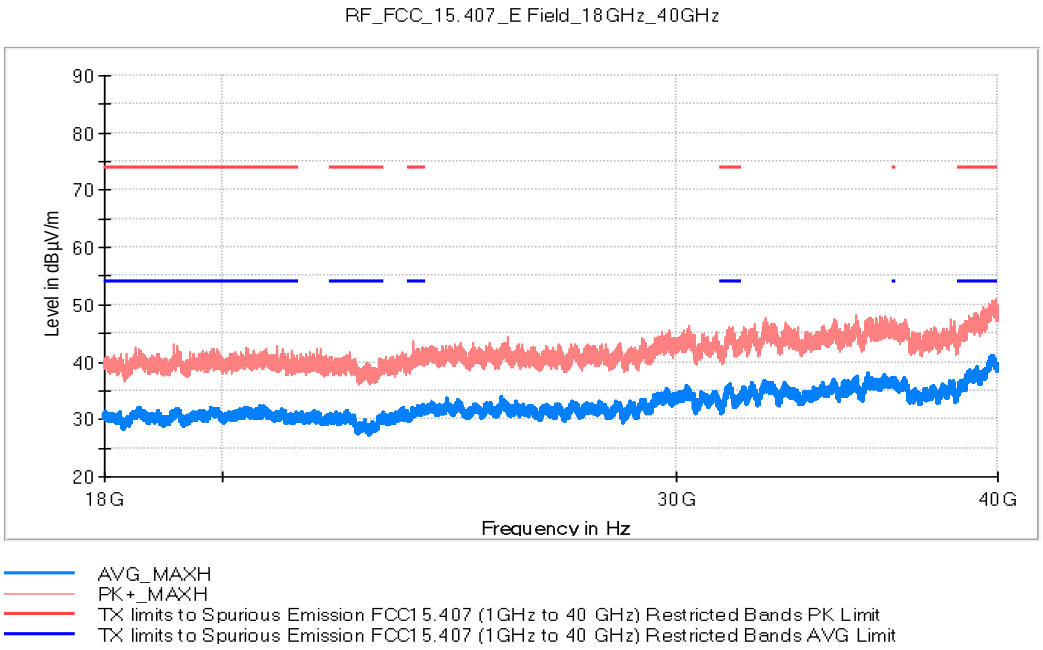
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2232.812500	48.46	44.35	V	
4750.937500	55.13	48.32	V	
5823.593750	84.87	77.42	V	Fundamental
8378.000000	42.66	37.17	V	
9472.400000	42.64	36.90	V	
11650.000000	41.82	36.27	V	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Low Channel

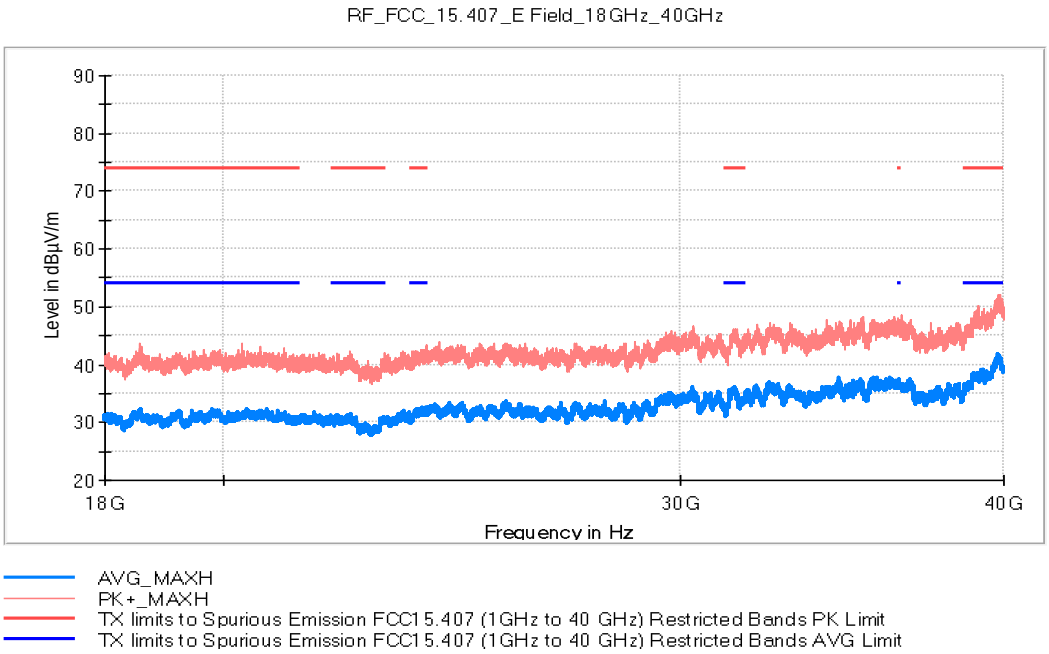


Middle Channel



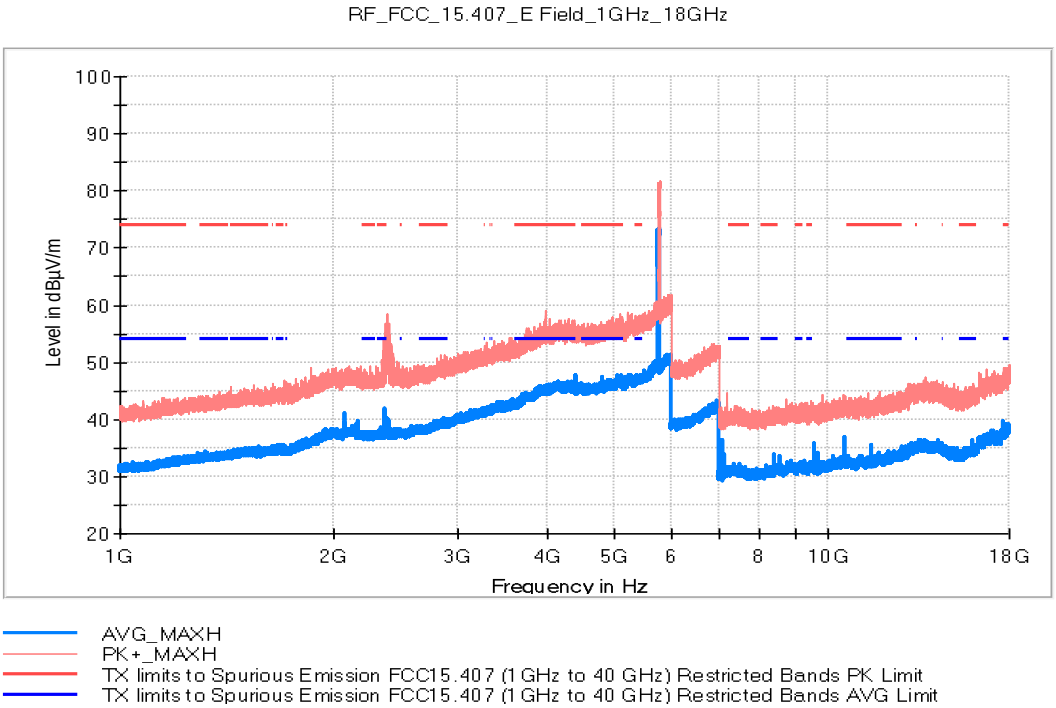
TEST RESULTS (Cont.)	

High Channel



TEST RESULTS (Cont.)	n mode (40 MHz)
FREQUENCY RANGE	1 GHz – 18 GHz

Low Channel

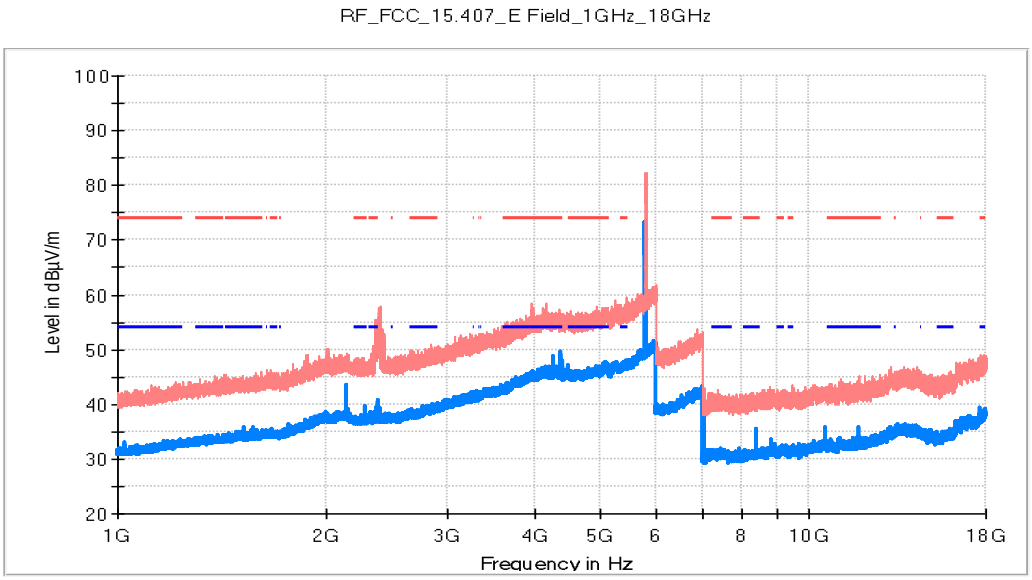


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2362.187500	48.46	41.78	V	
5772.031250	81.03	73.51	V	Fundamental
9549.200000	41.20	35.65	V	
10582.800000	42.80	36.89	H	
11510.000000	42.22	35.57	H	
17638.000000	46.64	39.66	V	

TEST RESULTS (Cont.)	

High Channel

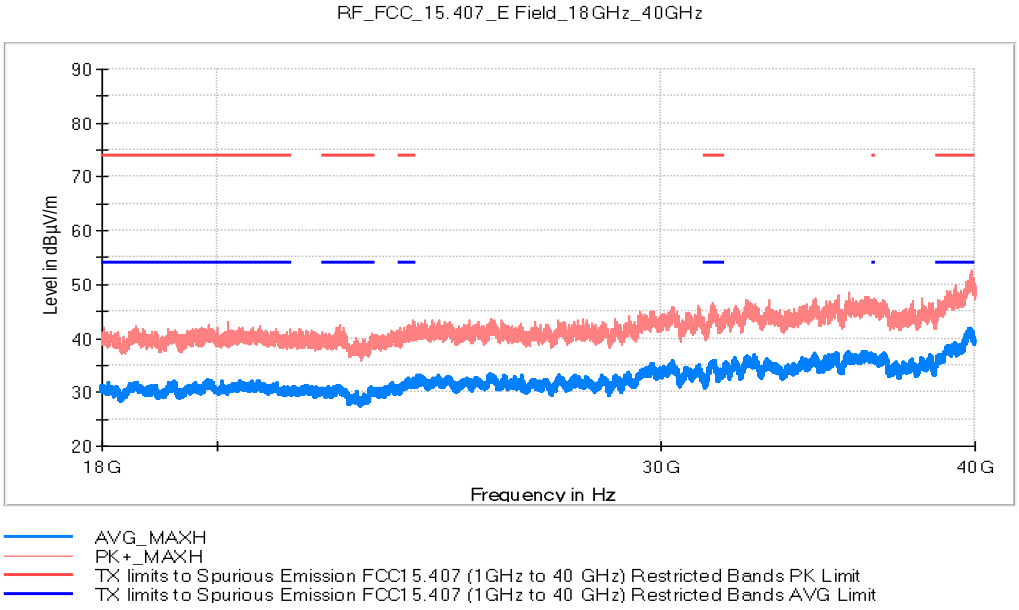


Maximizations

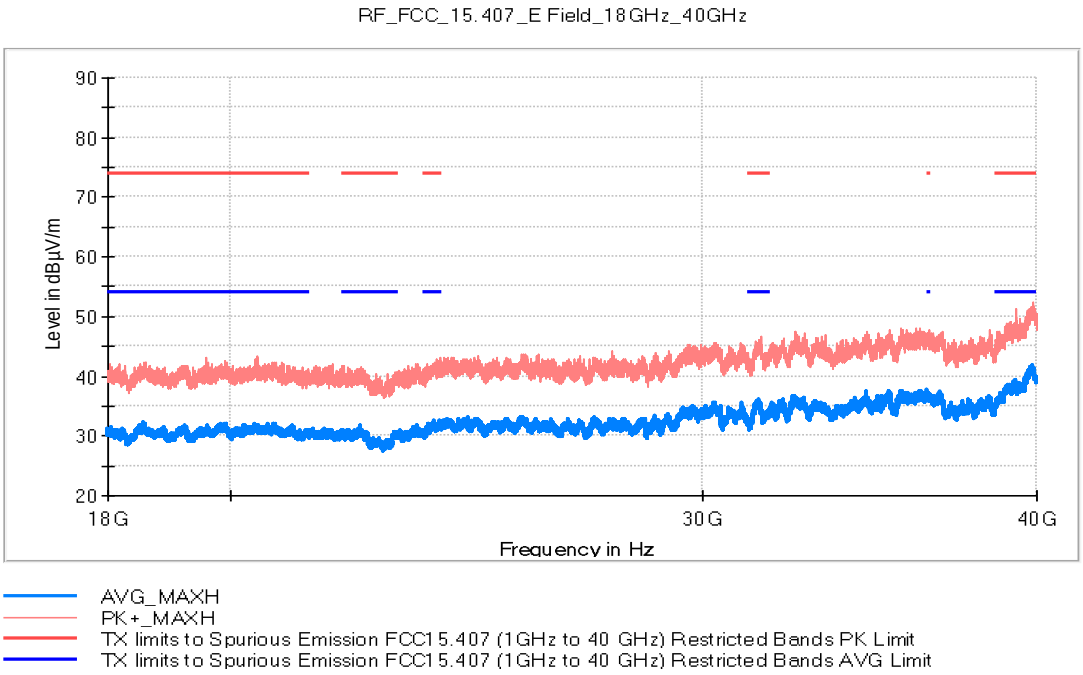
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2376.562500	50.80	40.78	V	
5812.500000	81.41	73.55	H	Fundamental
8378.000000	40.60	35.49	V	
10582.400000	42.44	35.82	H	
11823.200000	43.11	35.74	V	
17638.000000	46.92	39.35	V	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Low Channel



High Channel



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Co-Location

The test was performed with the equipment transmitting first with only the WiFi 5 GHz (WLAN0 CORE0) radio and repeated with the 2.4 GHz BT-EDR (WLAN 0), WiFi 2.4GHz (WLAN0 CORE1) radios transmitting simultaneously to check the impact of the co-location of the other radio interfaces. The results and plots below show the worst results obtained.

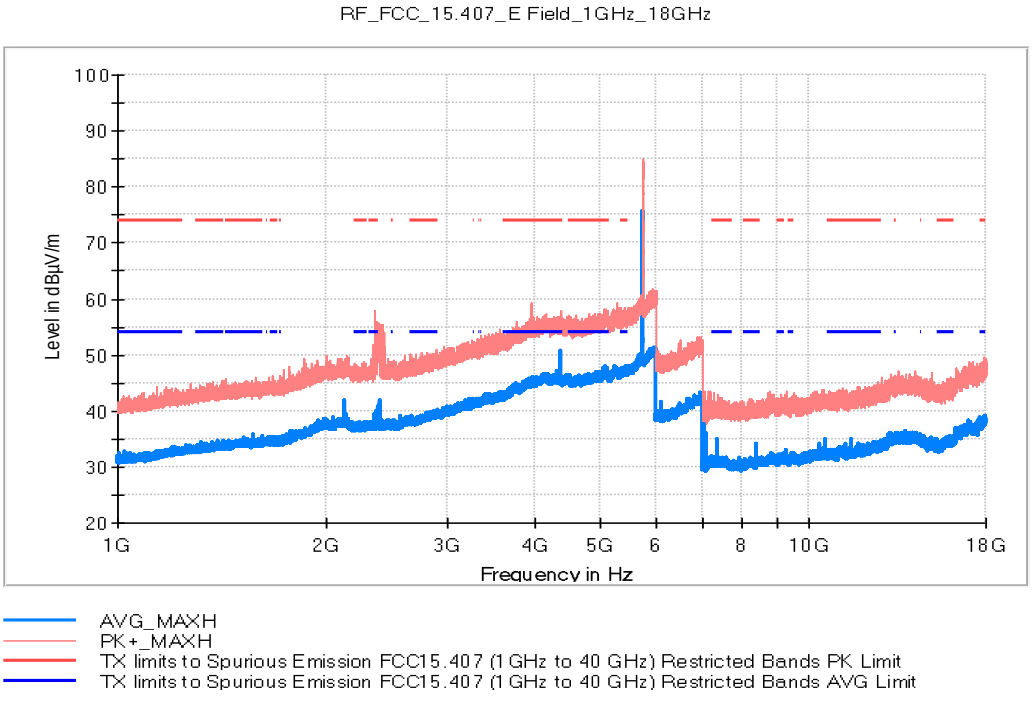
Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

Frequency range 1 GHz – 40 GHz
The results and plots below show the maximum measured levels in the 1- 40 GHz range.

TEST RESULTS (Cont.)	**ac mode (20 MHz)**
FREQUENCY RANGE	**1 GHz – 18 GHz**

Low Channel

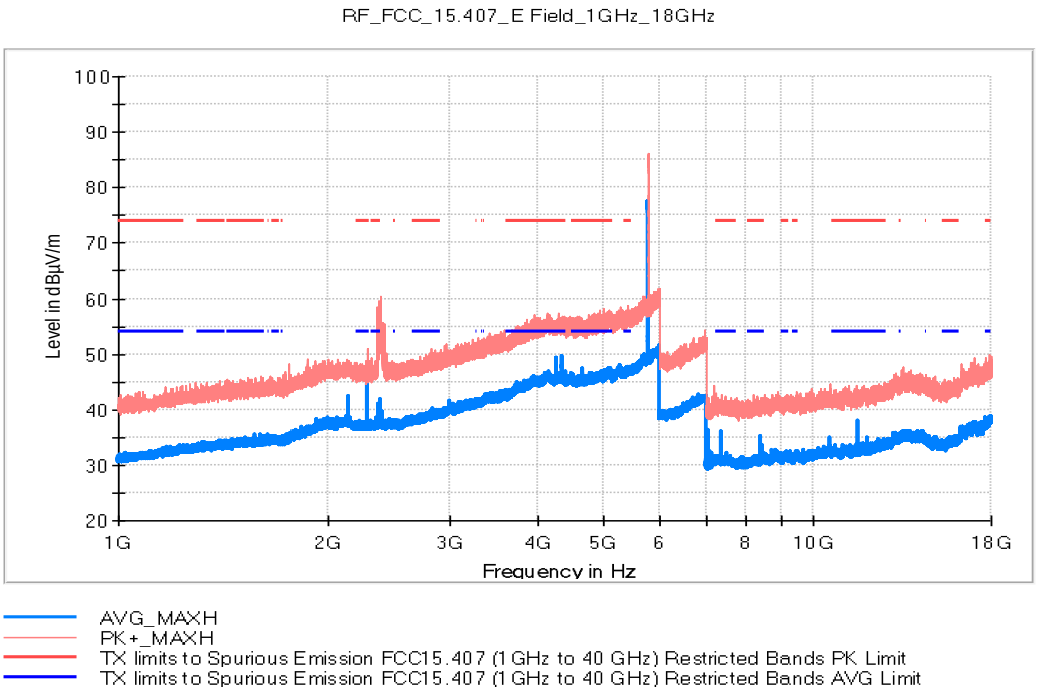


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2392.187500	50.72	41.77	V	
4374.062500	57.90	50.83	V	
5747.031250	83.83	75.72	V	Fundamental
7349.200000	41.19	34.97	V	
10582.800000	42.21	34.84	V	
11490.000000	43.21	34.94	V	

TEST RESULTS (Cont.)	

Mid Channel

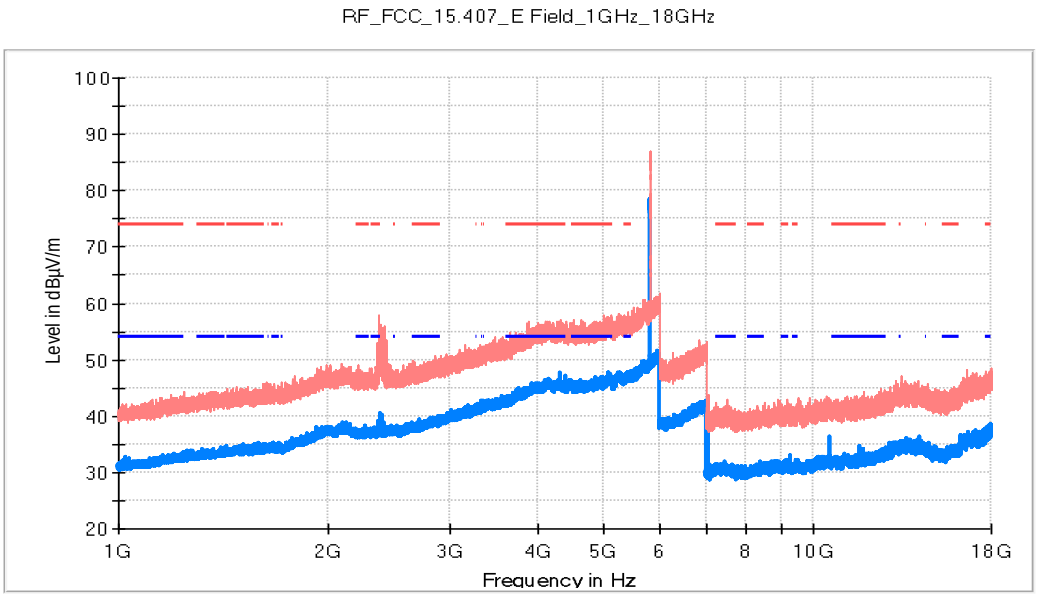


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2275.937500	50.18	46.80	V	
4340.625000	55.54	49.49	V	
5780.625000	85.31	77.61	V	Fundamental
7349.200000	41.89	35.96	V	
8378.000000	41.16	35.28	V	
11570.000000	42.87	37.96	V	

TEST RESULTS (Cont.)	

High Channel



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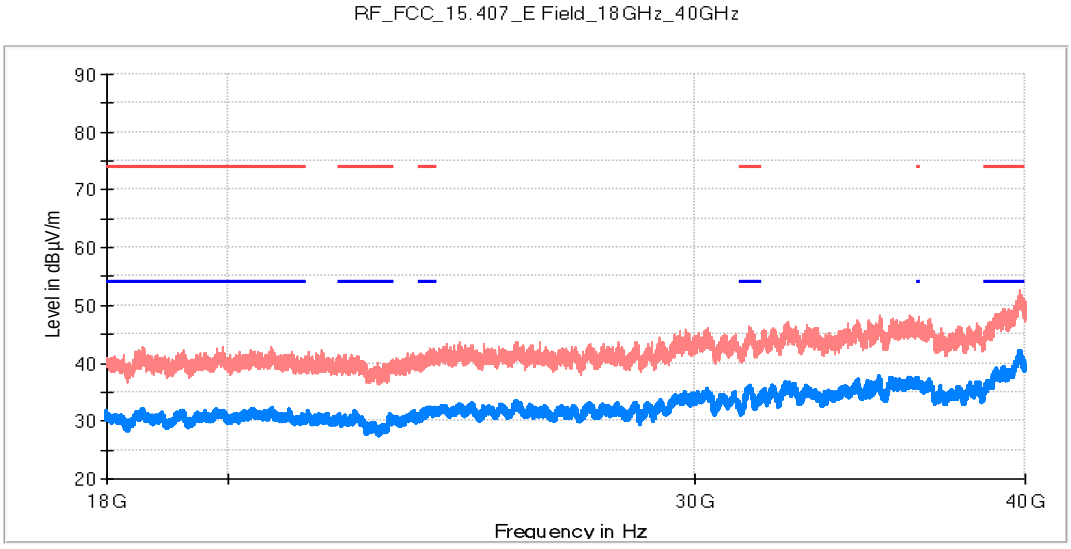
Maximizations

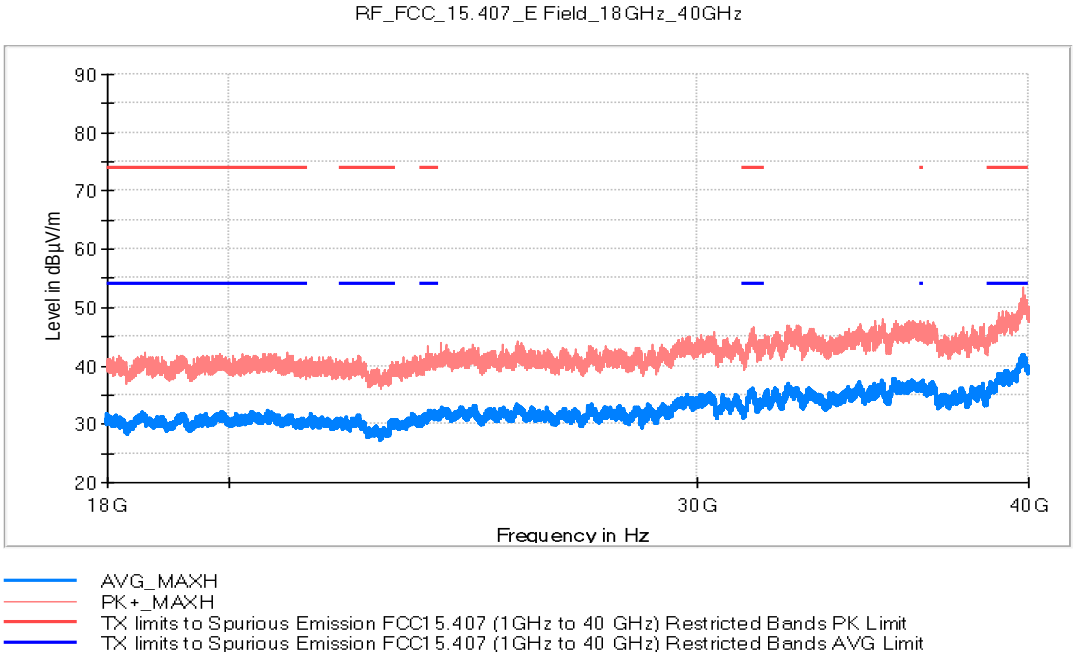
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2376.718750	52.28	40.24	V	
5826.562500	86.23	78.33	H	Fundamental
7054.800000	43.38	39.16	H	
10582.800000	41.58	36.35	H	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Low Channel

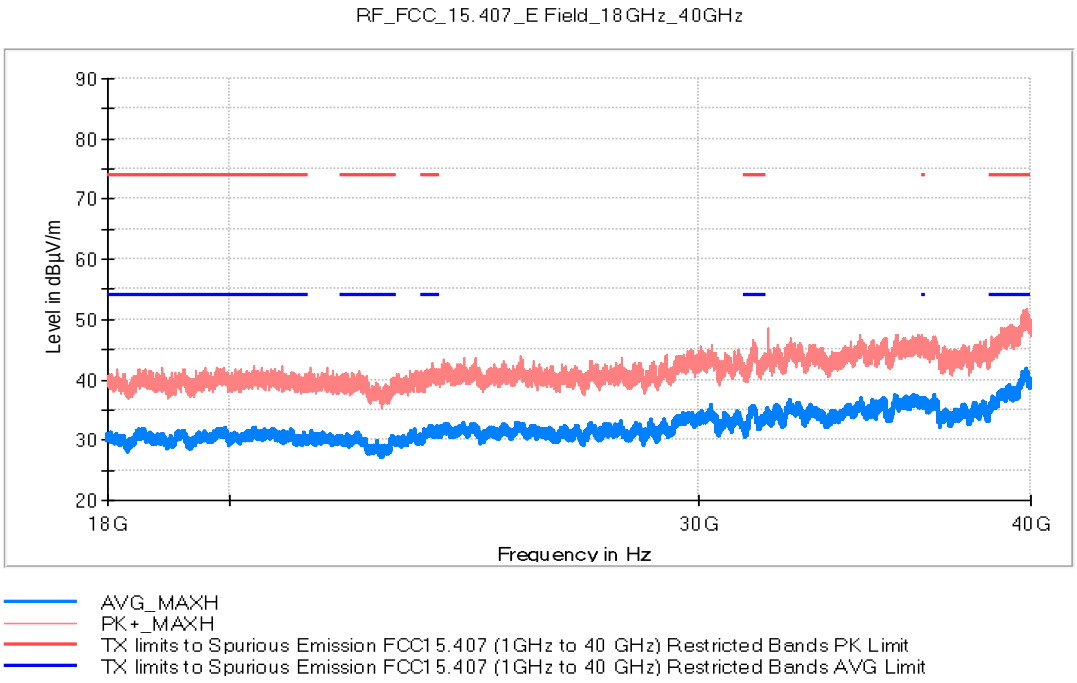


Middle Channel



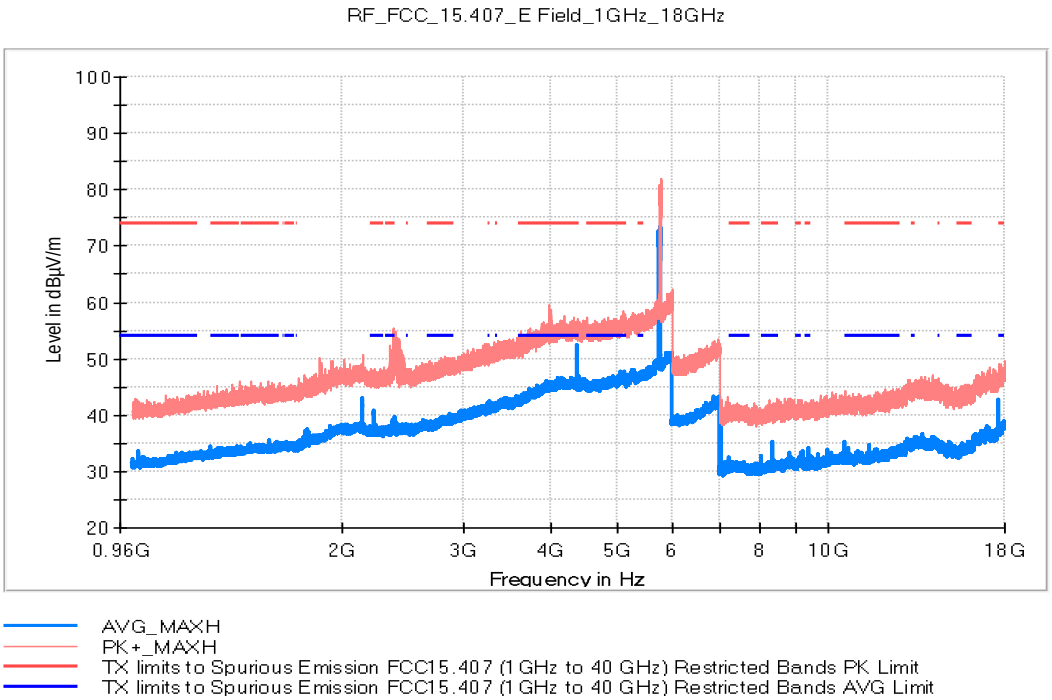
TEST RESULTS (Cont.)	

High Channel



TEST RESULTS (Cont.)	ac mode (40 MHz)
FREQUENCY RANGE	1 GHz – 18 GHz

Low Channel

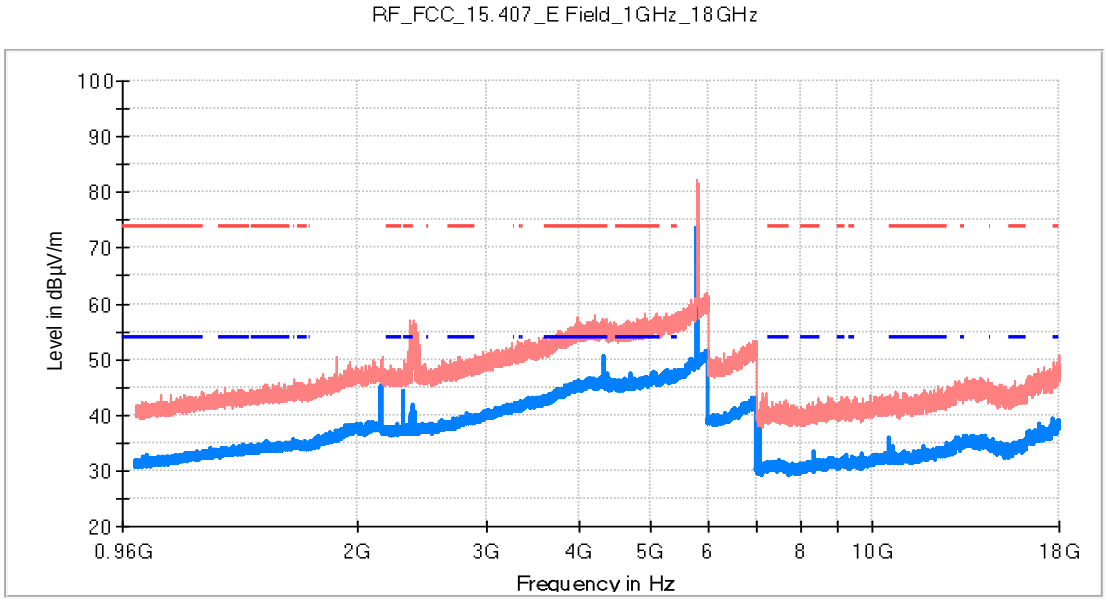


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
4371.718750	56.13	52.43	V	
5768.125000	80.93	73.29	V	Fundamental
8378.000000	40.95	35.23	V	
10582.800000	42.11	35.35	H	
13733.600000	45.53	36.52	V	
17638.400000	49.03	42.67	V	

TEST RESULTS (Cont.)	

High Channel

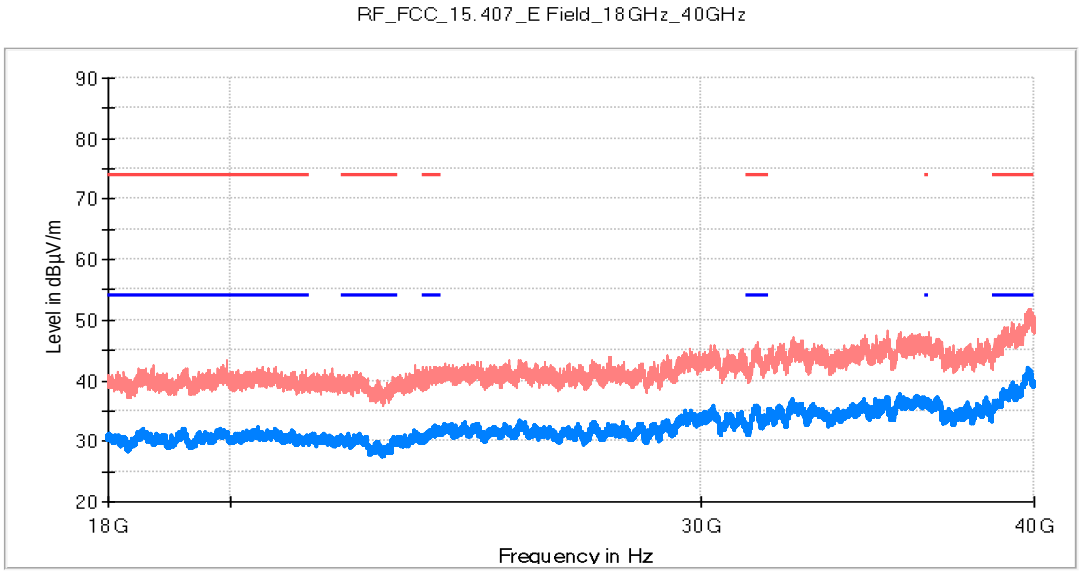


Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2160.625000	50.04	45.41	V	
2311.718750	49.96	44.40	V	
4335.625000	56.19	50.66	V	
5809.531250	80.24	73.51	H	Fundamental
7055.200000	41.66	37.49	V	
10582.800000	43.15	35.85	H	
17638.000000	46.45	39.44	V	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Low Channel



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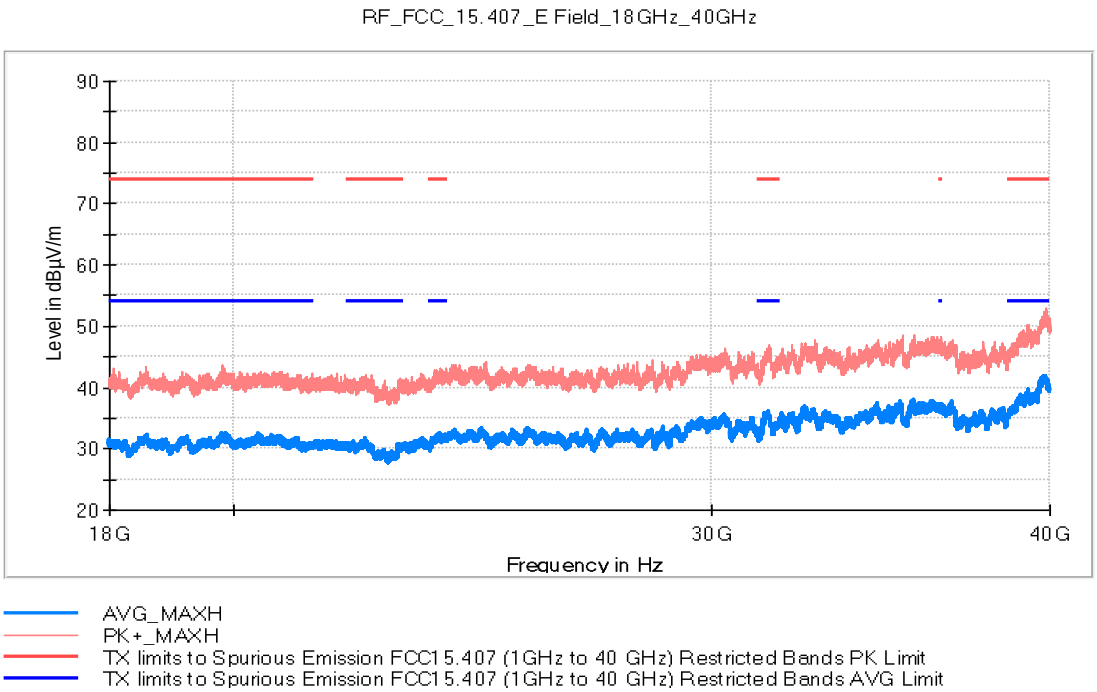
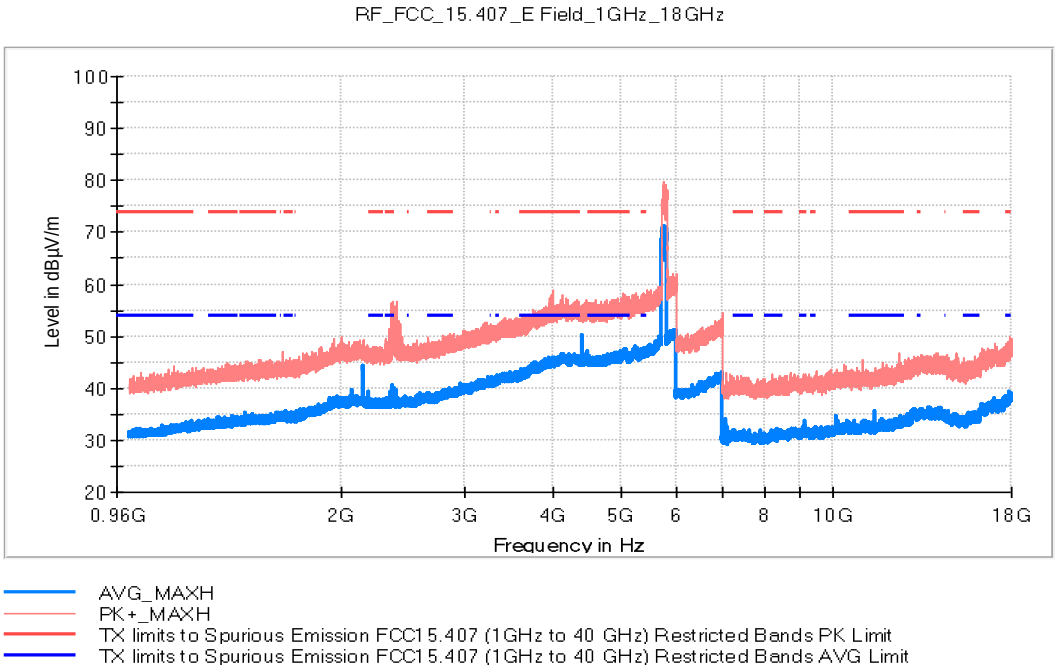
High Channel



TEST RESULTS (Cont.)	ac mode (80 MHz)
FREQUENCY RANGE	1 GHz – 18 GHz

Mid Channel



Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comments
2150.937500	48.35	44.13	V	
2377.187500	53.10	40.52	V	
4407.812500	55.90	50.13	V	
5762.343750	77.34	71.19	V	Fundamental
10147.200000	43.10	34.59	H	
11549.600000	43.33	35.54	V	
2150.937500	48.35	44.13	V	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	**18 GHz – 40 GHz**

Mid Channel