

BAND EDGE COMPLIANCE - STAND ALONE



XMit 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Block - DC	Fairview Microwave	SD3379	AMT	2021-09-14	2022-09-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of $[-10 \cdot \log(4)]$ dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per FCC 24.238(a) and RSS 133 6.5.1 (i). the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log(4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 24.238(b) and RSS 133 6.5.1 (i). emissions seen up to 1 MHz outside of authorized operating frequency range band edges shall be measured with a RBW of 1% of the measured emission bandwidth. Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.


Per section FCC 27.53(h)(1), RSS-139 6.6 and RSS-170 5.4 & 5.4.1.2, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm for a 1 MHz measurement bandwidth. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log(4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter. The RBW to be used for these measurements are per 27.53(h)(3), RSS-139 6.6 and RSS-170 5.4. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

RF conducted emissions testing was performed only on one port. All four AHFII antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

BAND EDGE COMPLIANCE - STAND ALONE



Tel: 2021.12.14.1 XM: 2022.02.07.0

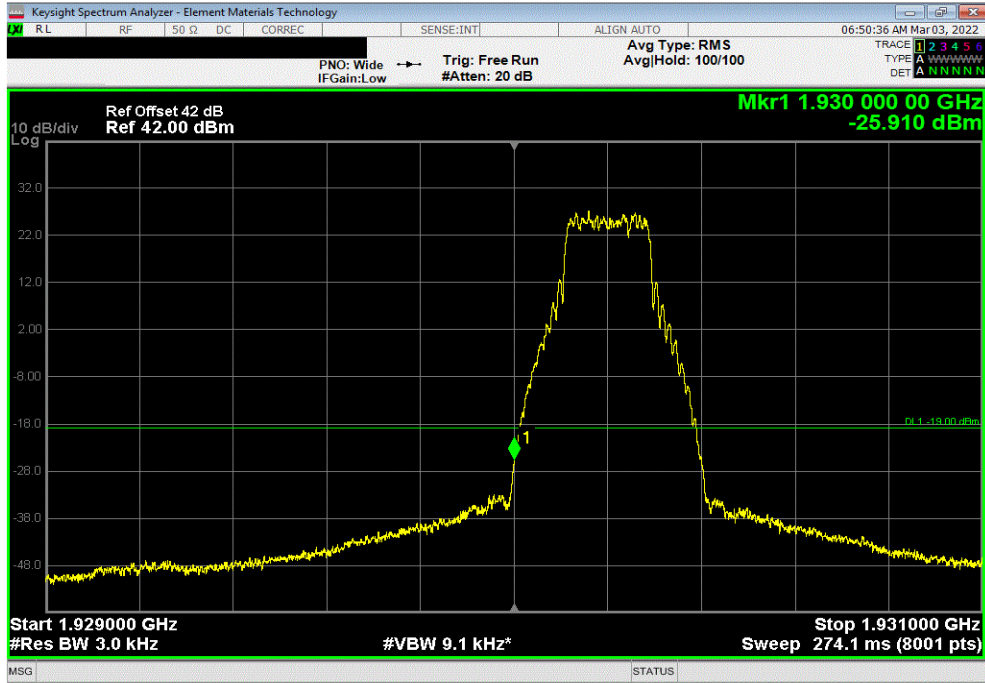
EUT: AHFII Remote Radio Head		Work Order: NOKI0037	
Serial Number: YK214000036		Date: 28-Feb-22	
Customer: Nokia Solutions and Networks		Temperature: 22.6 °C	
Attendees: David Le, John Rattanaovong		Humidity: 23.7% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Mark Baytan		Power: 54 VDC	Job Site: TX09
TEST SPECIFICATIONS			
FCC 24E:2022		Test Method	
RSS-133 Issue 6:2013+A1:2018		ANSI C63.26:2015	
		RSS-133 Issue 6:2013+A1:2018	
COMMENTS			
All measurement path losses accounted for in the reference level offset including any attenuators, filters, and DC blocks. The Band 25 NB IoT Standalone carrier was enabled at maximum power of 20 watts/carrier.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Frequency Range	Max Value (dBm) Limit (dBm) Results
Band 25, 1930 MHz - 1995 MHz, LTE Narrow Band IoT Stand Alone			
Port 1			
200 kHz Bandwidth N-TM			
	Low Channel, 1930.2 MHz	1	-25.9 -19 Pass
	Low Channel, 1930.2 MHz	2	-27.2 -19 Pass
	Low Channel, 1930.2 MHz	3	-27.8 -19 Pass
	High Channel, 1994.8 MHz	1	-25.6 -19 Pass
	High Channel, 1994.8 MHz	2	-27.3 -19 Pass
	High Channel, 1994.8 MHz	3	-26.5 -19 Pass

BAND EDGE COMPLIANCE - STAND ALONE

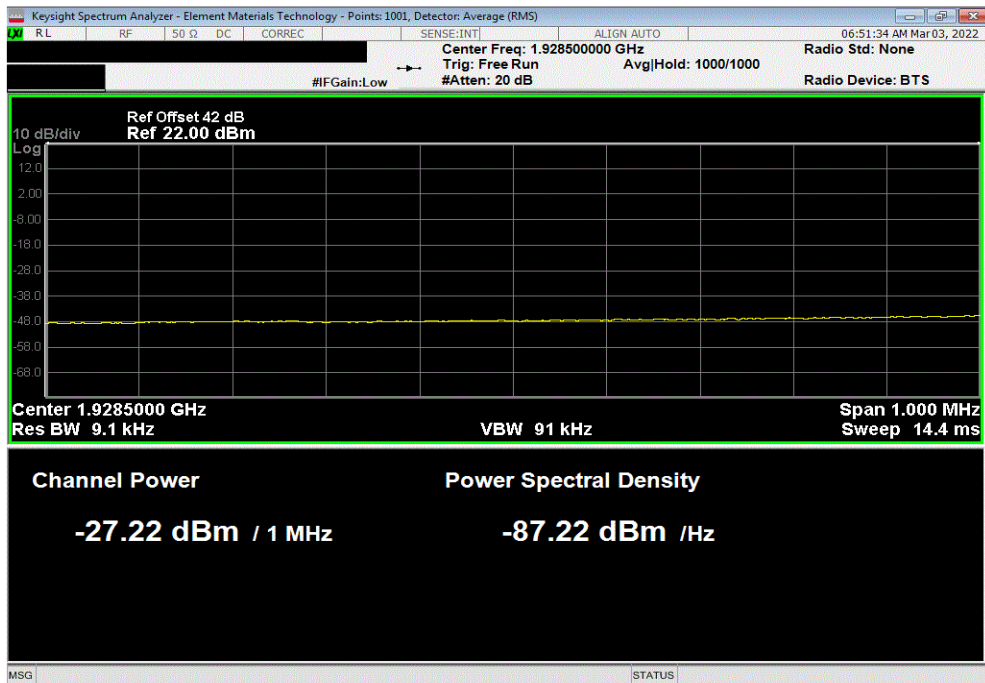


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, Low Channel, 1930.2 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-25.9	-19	Pass			



Band 25, 1930 MHz - 1995 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, Low Channel, 1930.2 MHz.						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-27.2	-19	Pass			

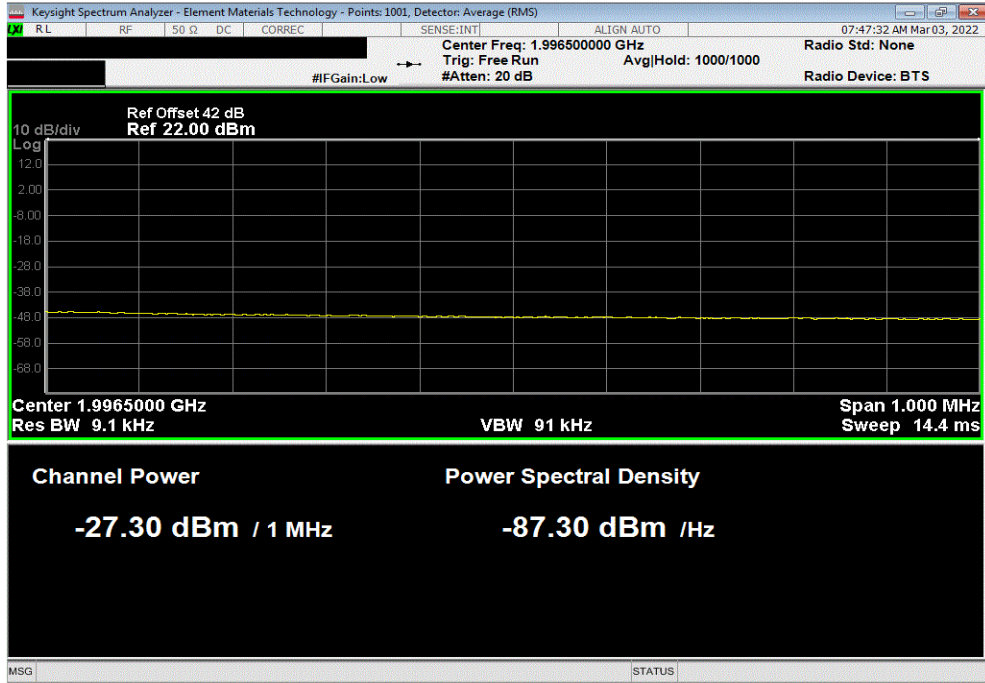


BAND EDGE COMPLIANCE - STAND ALONE

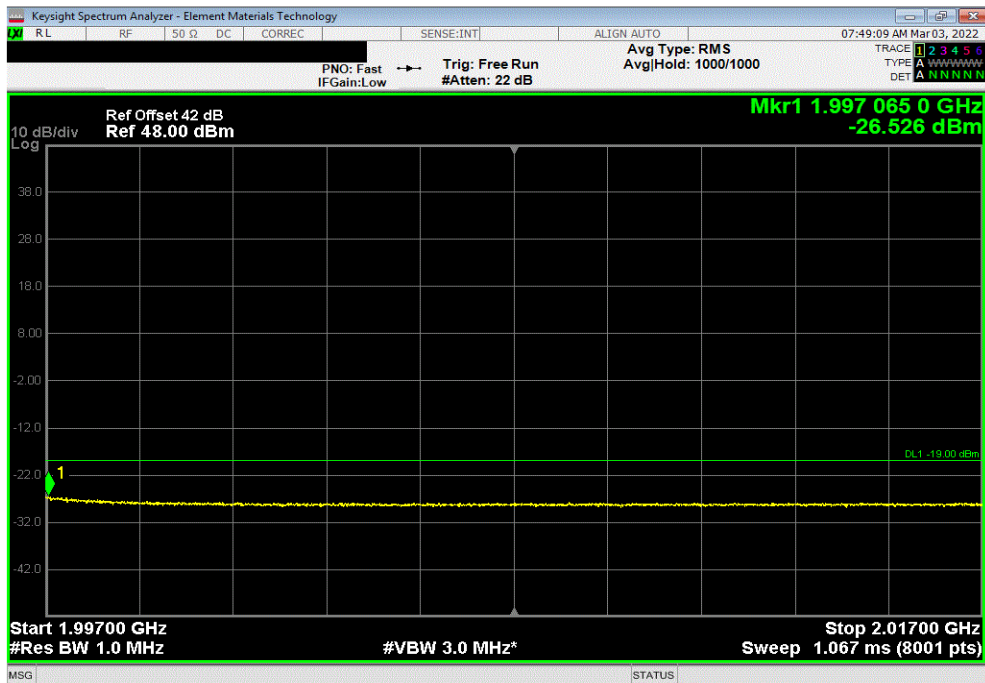


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 25, 1930 MHz - 1995 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, High Channel, 1994.8 MHz.						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-27.3	-19	Pass			




Band 25, 1930 MHz - 1995 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, High Channel, 1994.8 MHz..						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-26.5	-19	Pass			



BAND EDGE COMPLIANCE - STAND ALONE



Tel: 2021.12.14.1 XMI: 2022.02.07.0

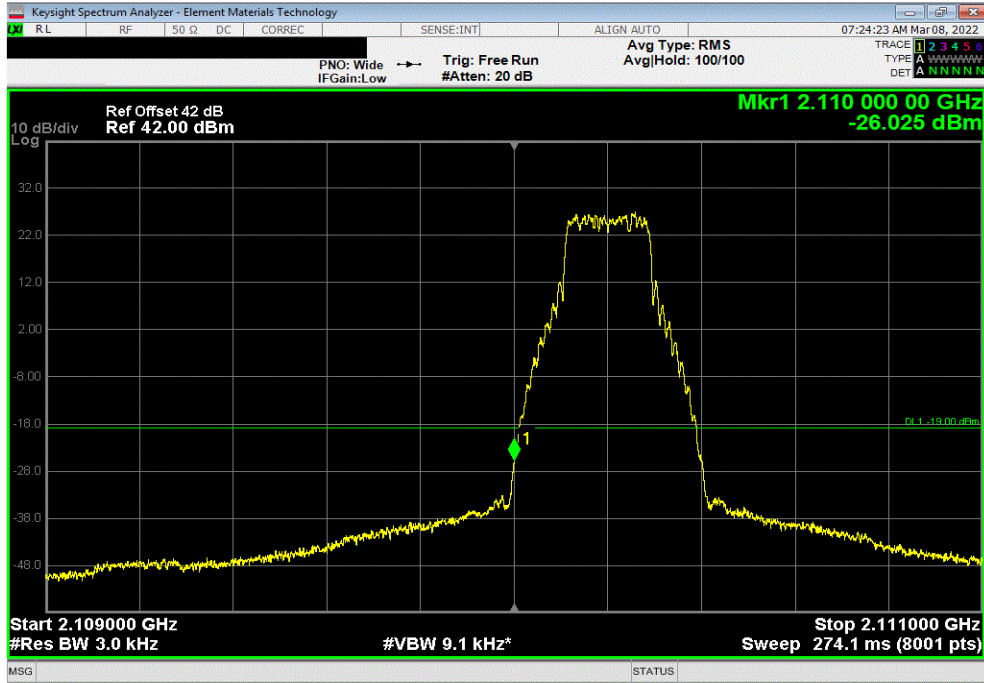
EUT: AHFII Remote Radio Head		Work Order: NOKI0037	
Serial Number: YK214000036		Date: 28-Feb-22	
Customer: Nokia Solutions and Networks		Temperature: 22.6 °C	
Attendees: David Le, John Rattanaovong		Humidity: 23.7% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Mark Baytan	Power: 54 VDC	Job Site: TX09	
TEST SPECIFICATIONS			
FCC 27:2022		Test Method	
RSS-139 Issue 3:2015		ANSI C63.26:2015	
RSS-170 Issue 3:2015		RSS-139 Issue 3:2015	
		RSS-170 Issue 3:2015	
COMMENTS			
All measurement path losses accounted for in the reference level offset including any attenuators, filters, and DC blocks. The Band 66 NB IoT Standalone carrier was enabled at maximum power of 20 watts/carrier.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Frequency Range	Max Value (dBm)
			Limit (dBm)
			Results
Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone			
Port 1			
200 kHz Bandwidth			
N-TM			
		Low Channel, 2110.2 MHz	1
		Low Channel, 2110.2 MHz	2
		Low Channel, 2110.2 MHz	3
		High Channel, 2199.8 MHz	1
		High Channel, 2199.8 MHz	2
		High Channel, 2199.8 MHz	3
			-26.0
			-27.0
			-26.1
			-25.7
			-26.8
			-25.8
			-19
			-19
			-19
			-19
			-19
			Pass
			Pass
			Pass
			Pass
			Pass
			Pass

BAND EDGE COMPLIANCE - STAND ALONE

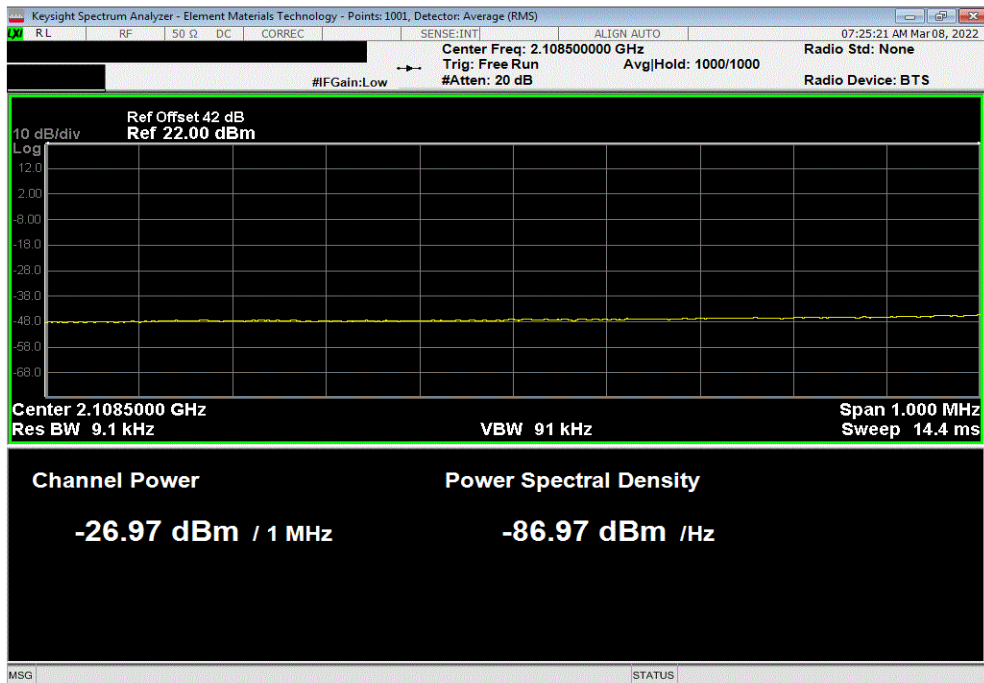


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, Low Channel, 2110.2 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.0	-19	Pass			



Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, Low Channel, 2110.2 MHz.						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-27.0	-19	Pass			

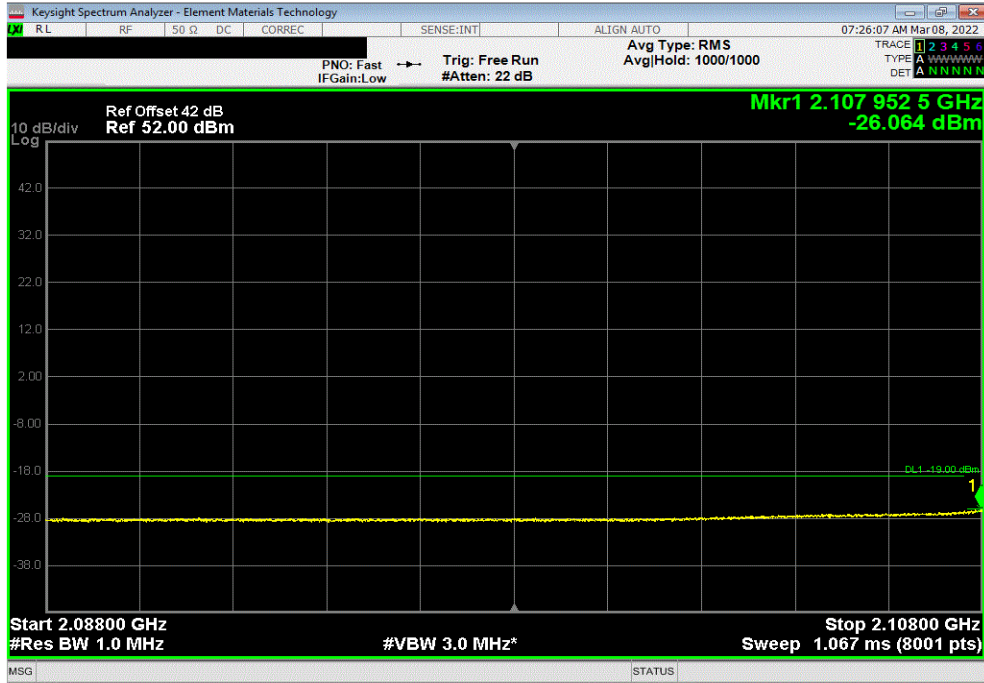


BAND EDGE COMPLIANCE - STAND ALONE

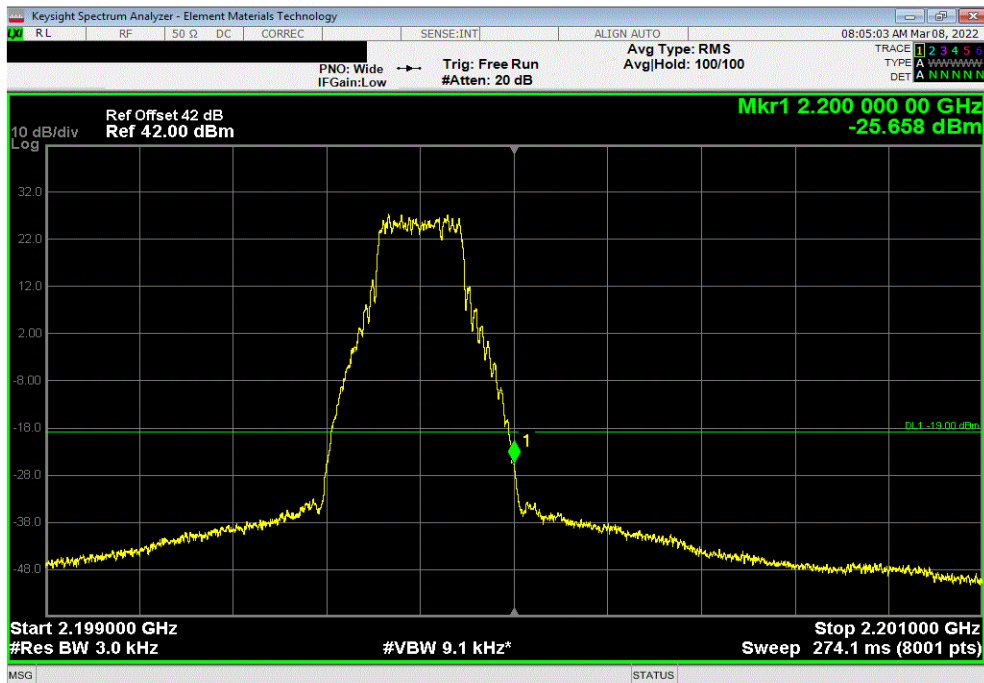


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, Low Channel, 2110.2 MHz..						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-26.1	-19	Pass			



Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, High Channel, 2199.8 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-25.7	-19	Pass			

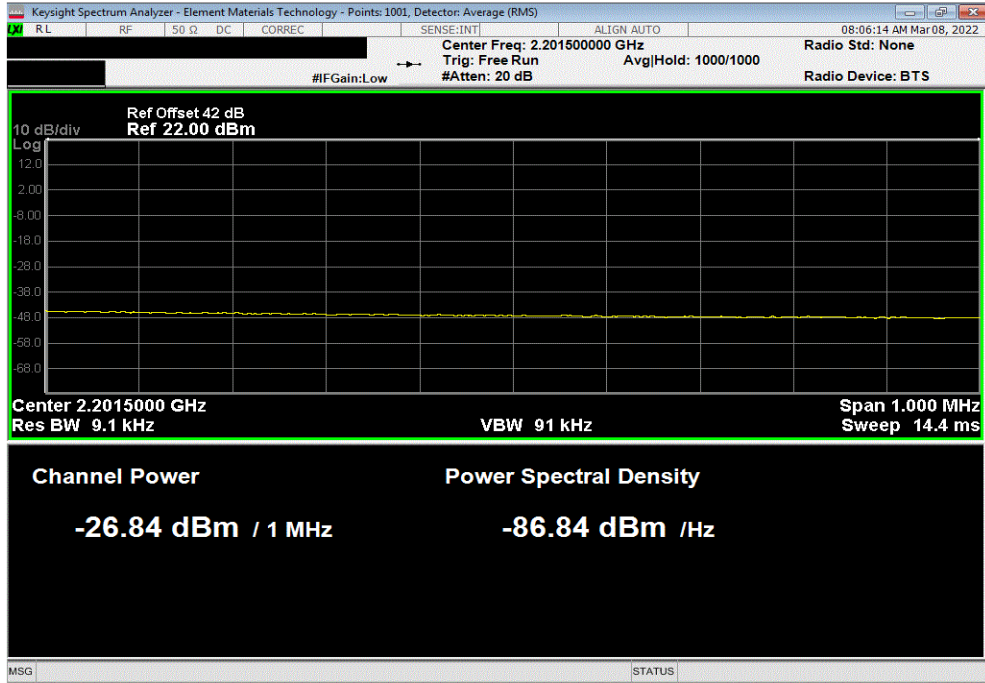


BAND EDGE COMPLIANCE - STAND ALONE

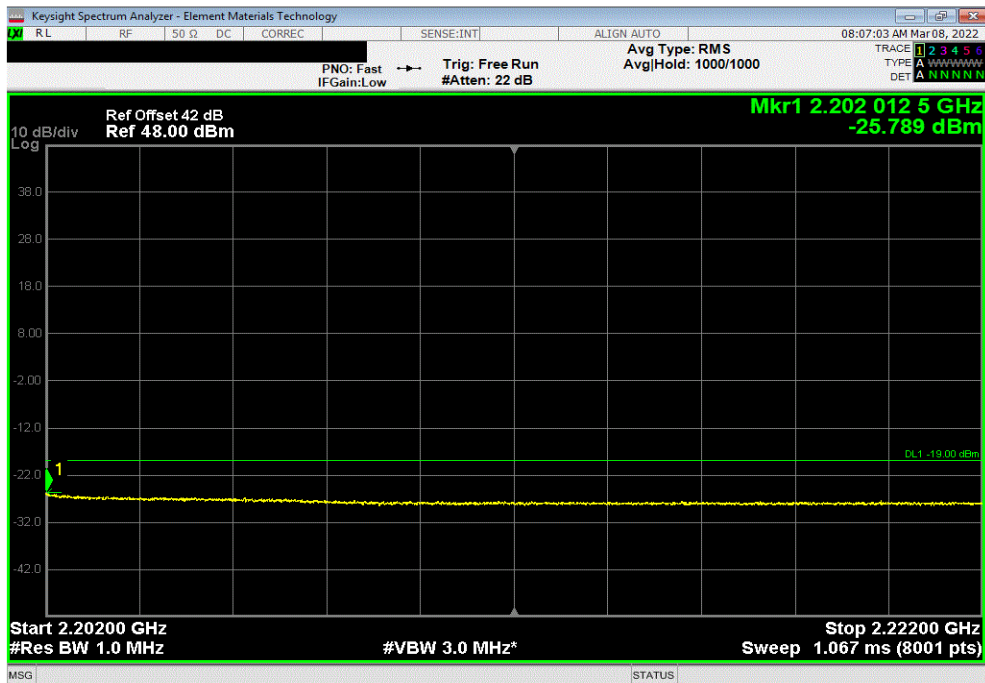


TbTx 2021.12.14.1 XMI 2022.02.07.0

Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, High Channel, 2199.8 MHz.						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-26.8	-19	Pass			



Band 66, 2110 MHz - 2200 MHz, LTE Narrow Band IoT Stand Alone, Port 1, 200 kHz Bandwidth, N-TM, High Channel, 2199.8 MHz..						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-25.8	-19	Pass			



SPURIOUS RADIATED EMISSIONS



TEST DESCRIPTION

At an approved test site, the transmitter was placed on a remotely controlled turntable, and the measurement antenna was placed 3 meters from the transmitter. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes. The turntable azimuth was varied to maximize the level of spurious emissions. The height of the measurement antenna was also varied from 1 to 4 meters. A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity. The amplitude and frequency of the highest emissions were noted.

The transmitter was then replaced with a 1/2 wave dipole that was successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator was connected to the dipole (horn antenna for frequencies above 1 GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the antenna and its gain, the power (dBm) was determined for each radiated spurious emission.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFN	2022-01-19	2023-01-19
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2021-05-24	2022-05-24
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2021-05-24	2022-05-24
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2020-06-25	2022-06-25
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2020-10-20	2022-10-20
Cable	Northwest EMC	1-8.2 GHz	TXC	2021-05-24	2022-05-24
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2021-05-24	2022-05-24
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Cable	Northwest EMC	8-18GHz	TXD	2021-04-30	2022-04-30
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2021-09-13	2022-09-13
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2021-09-13	2022-09-13
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2020-09-02	2022-09-02
Cable	Northwest EMC	18-40GHz	TXE	2021-09-13	2022-09-13
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2021-09-15	2022-09-15
Filter - High Pass	Micro-Tronics	HPM50108	HGD	2021-09-13	2022-09-13
Attenuator	Weinschel Corp	4H-20	AWB	2022-02-23	2023-02-23
Antenna - Double Ridge	ETS Lindgren	3115	AJN	2020-11-24	2022-11-24
Meter - Power	Gigatronics	8652A	SOZ	2022-02-28	2023-02-28
Power Sensor	Gigatronics	80701A	SRC	2022-02-28	2023-02-28
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	5.1 dB	-5.1 dB

FREQUENCY RANGE INVESTIGATED

30 MHz TO 22000 MHz

POWER INVESTIGATED

54 VDC

CONFIGURATIONS INVESTIGATED

NOKI0037-5

MODES INVESTIGATED

PCS (at 40 Watt) and AWS (at 80 Watt), Single Mode SFP.
PCS (at 80 Watt) and AWS (at 40 Watt), Multi Mode SFP.

SPURIOUS RADIATED EMISSIONS

Frequency Band	Ant Port	RF BW	EARFCN	Transmit Frequency	Carrier Power
PCS	1	1.4 MHz	8047 (Bottom Channel)	1930.7 MHz	80 Watts
PCS	2	1.4 MHz	8365 (Middle Channel)	1962.5 MHz	80 Watts
PCS	3	1.4 MHz	8633 (Top Channel)	1989.3 MHz	80 Watts
PCS	4	5 MHz	8665 (Top Channel)	1992.5 MHz	80 Watts
AWS	1	1.4 MHz	66443 (Bottom Channel)	2110.7 MHz	40 Watts
AWS	2	1.4 MHz	66886 (Middle Channel)	2155.0 MHz	40 Watts
AWS	3	1.4 MHz	66886 (Middle Channel)	2155.0 MHz	40 Watts
AWS	4	1.4 MHz	67329 (Top Channel)	2199.3 MHz	40 Watts

Table 5 PCS (at 80W/carrier) & AWS (at 40W/carrier) Carriers Enabled Simultaneously

Frequency Band	Ant Port	RF BW	EARFCN	Transmit Frequency	Carrier Power
PCS	1	1.4 MHz	8047 (Bottom Channel)	1930.7 MHz	40 Watts
PCS	2	1.4 MHz	8365 (Middle Channel)	1962.5 MHz	40 Watts
PCS	3	1.4 MHz	8633 (Top Channel)	1989.3 MHz	40 Watts
PCS	4	5 MHz	8665 (Top Channel)	1992.5 MHz	40 Watts
AWS	1	1.4 MHz	66443 (Bottom Channel)	2110.7 MHz	80 Watts
AWS	2	1.4 MHz	66886 (Middle Channel)	2155.0 MHz	80 Watts
AWS	3	1.4 MHz	66886 (Middle Channel)	2155.0 MHz	80 Watts
AWS	4	1.4 MHz	67329 (Top Channel)	2199.3 MHz	80 Watts

Table 6 PCS (at 40W/carrier) & AWS (at 80W/carrier) Carriers Enabled Simultaneously

SPURIOUS RADIATED EMISSIONS



EUT:	AHFII Remote Radio Head	Work Order:	NOKI0037
Serial Number:	YK214000036	Date:	2022-03-17
Customer:	Nokia Solutions and Networks	Temperature:	21.8°C
Attendees:	David Le, John Rattanavong	Relative Humidity:	39.4%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mb
Tested By:	Marty Martin	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0037-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 24E:2022	ANSI C63.26:2015
RSS-133 Issue 6:2013+A1:2018	RSS-133 Issue 6:2013+A1:2018

TEST PARAMETERS

Run #:	23	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

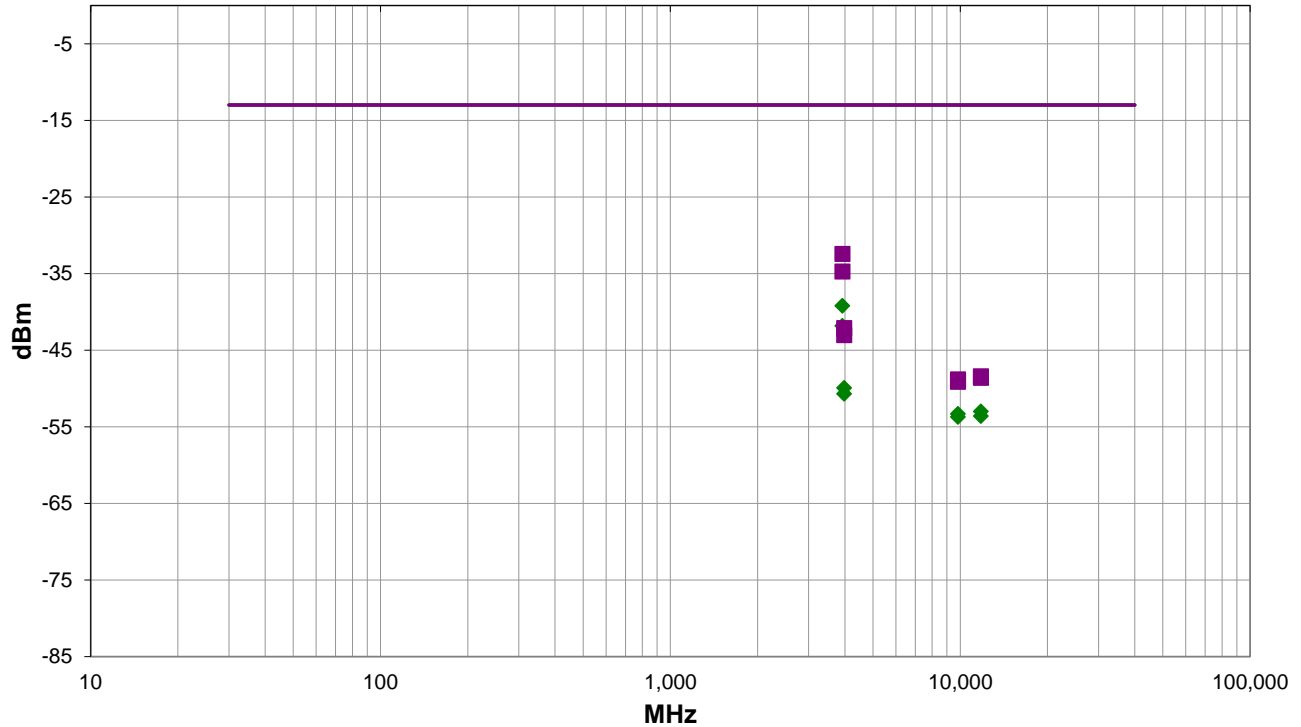
None

EUT OPERATING MODES

PCS (at 80 Watt) and AWS (at 40 Watt), Multi Mode SFP. See Table 5

DEVIATIONS FROM TEST STANDARD

None



Run #: 23

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS



RESULTS - Run #23

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3924.855	3.5	1.0	Vert	PK	571.6E-9	-32.4	-13.0	-19.4	PCS Mid Ch (8365)
3925.420	3.4	27.9	Horz	PK	336.6E-9	-34.7	-13.0	-21.7	PCS Mid Ch (8365)
3924.965	3.5	1.0	Vert	AV	119.4E-9	-39.2	-13.0	-26.2	PCS Mid Ch (8365)
3925.005	3.4	27.9	Horz	AV	65.6E-9	-41.8	-13.0	-28.8	PCS Mid Ch (8365)
3978.345	3.8	8.0	Vert	PK	61.3E-9	-42.1	-13.0	-29.1	PCS Mid Ch (8633)
3978.550	2.5	36.0	Horz	PK	49.8E-9	-43.0	-13.0	-30.0	PCS Mid Ch (8633)
11796.440	2.8	357.0	Horz	PK	14.4E-9	-48.4	-13.0	-35.4	PCS Mid Ch (8365)
11796.330	1.0	25.0	Vert	PK	13.7E-9	-48.6	-13.0	-35.6	PCS Mid Ch (8365)
9830.415	3.7	54.0	Horz	PK	13.1E-9	-48.8	-13.0	-35.8	PCS Mid Ch (8365)
9830.265	2.0	339.9	Vert	PK	12.2E-9	-49.1	-13.0	-36.1	PCS Mid Ch (8365)
3978.550	3.8	8.0	Vert	AV	10.2E-9	-49.9	-13.0	-36.9	PCS Mid Ch (8633)
3978.635	2.5	36.0	Horz	AV	8.5E-9	-50.7	-13.0	-37.7	PCS Mid Ch (8633)
11796.470	2.8	357.0	Horz	AV	5.0E-9	-53.0	-13.0	-40.0	PCS Mid Ch (8365)
9830.410	3.7	54.0	Horz	AV	4.6E-9	-53.3	-13.0	-40.3	PCS Mid Ch (8365)
11796.500	1.0	25.0	Vert	AV	4.3E-9	-53.6	-13.0	-40.6	PCS Mid Ch (8365)
9830.430	2.0	339.9	Vert	AV	4.2E-9	-53.7	-13.0	-40.7	PCS Mid Ch (8365)

CONCLUSION

Pass

Tested By

SPURIOUS RADIATED EMISSIONS



EUT:	AHFII Remote Radio Head	Work Order:	NOKI0037
Serial Number:	YK214000036	Date:	2022-03-17
Customer:	Nokia Solutions and Networks	Temperature:	21.8°C
Attendees:	David Le, John Rattanavong	Relative Humidity:	39.4%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mb
Tested By:	Marty Martin	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0037-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 27:2022	ANSI C63.26:2015
RSS-139 Issue 3:2015	RSS-139 Issue 3:2015
RSS-170 Issue 3:2015	RSS-170 Issue 3:2015

TEST PARAMETERS

Run #:	26	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

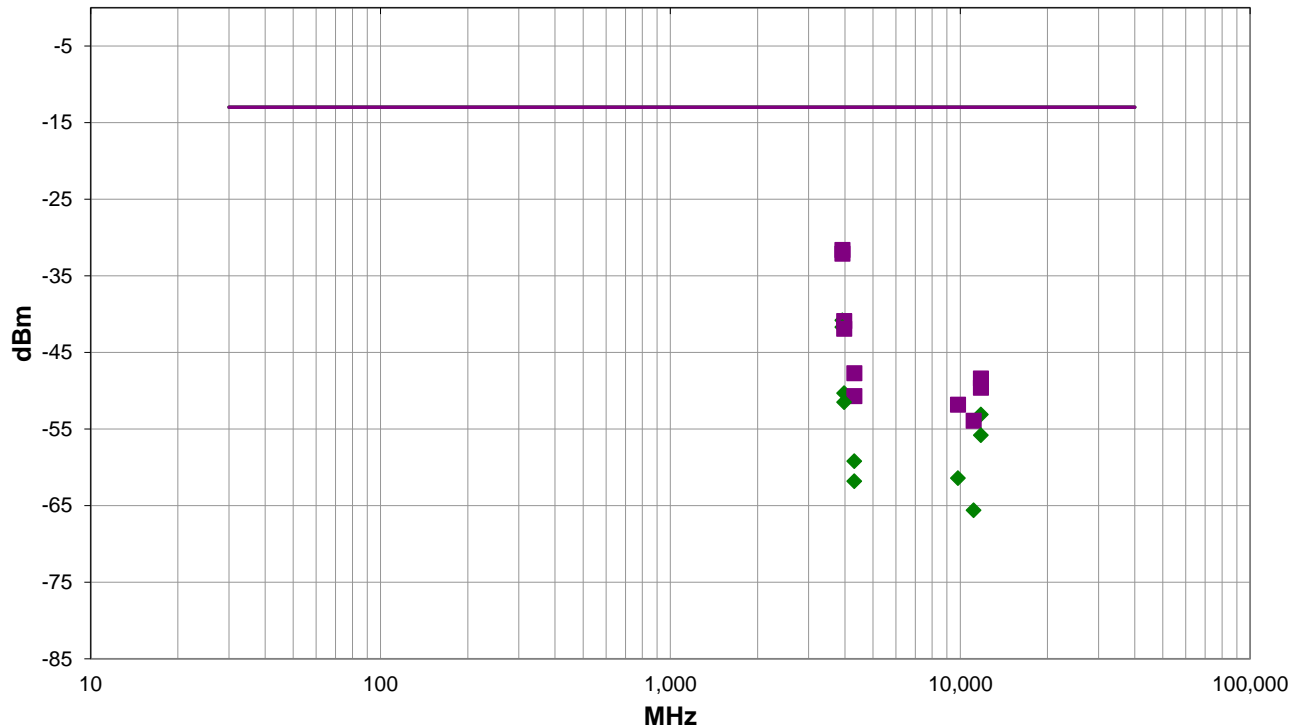
None

EUT OPERATING MODES

PCS (at 40 Watt) and AWS (at 80 Watt), Single Mode SFP. See Table 6

DEVIATIONS FROM TEST STANDARD

None



Run #: 26

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS



RESULTS - Run #26

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3924.915	3.5	360.0	Vert	PK	687.3E-9	-31.6	-13.0	-18.6	PCS Mid Ch (8365)
3925.175	2.3	1.0	Horz	PK	612.5E-9	-32.1	-13.0	-19.1	PCS Mid Ch (8365)
3924.965	3.5	360.0	Vert	AV	82.6E-9	-40.8	-13.0	-27.8	PCS Mid Ch (8365)
3979.040	3.8	7.0	Vert	PK	80.7E-9	-40.9	-13.0	-27.9	PCS Mid Ch (8633)
3924.985	2.3	1.0	Horz	AV	67.2E-9	-41.7	-13.0	-28.7	PCS Mid Ch (8365)
3978.690	1.5	44.0	Horz	PK	64.1E-9	-41.9	-13.0	-28.9	PCS Mid Ch (8633)
4310.275	2.6	33.0	Horz	PK	16.9E-9	-47.7	-13.0	-34.7	AWS Mid Ch (66886)
11796.310	1.2	31.0	Horz	PK	14.4E-9	-48.4	-13.0	-35.4	PCS Mid Ch (8365)
11796.430	1.5	352.9	Vert	PK	10.9E-9	-49.6	-13.0	-36.6	PCS Mid Ch (8365)
3978.585	3.8	7.0	Vert	AV	9.3E-9	-50.3	-13.0	-37.3	PCS Mid Ch (8633)
4310.390	1.2	345.0	Vert	PK	8.5E-9	-50.7	-13.0	-37.7	AWS Mid Ch (66886)
3978.565	1.5	44.0	Horz	AV	7.0E-9	-51.5	-13.0	-38.5	PCS Mid Ch (8633)
9830.880	1.9	219.0	Vert	PK	6.6E-9	-51.8	-13.0	-38.8	PCS Mid Ch (8365)
11796.440	1.2	31.0	Horz	AV	4.9E-9	-53.1	-13.0	-40.1	PCS Mid Ch (8365)
11127.590	1.2	207.9	Vert	PK	4.0E-9	-53.9	-13.0	-40.9	PCS Mid Ch (8365)
11796.490	1.5	352.9	Vert	AV	2.6E-9	-55.8	-13.0	-42.8	PCS Mid Ch (8365)
4310.000	2.6	33.0	Horz	AV	1.2E-9	-59.2	-13.0	-46.2	AWS Mid Ch (66886)
9830.445	1.9	219.0	Vert	AV	719.6E-12	-61.4	-13.0	-48.4	PCS Mid Ch (8365)
4309.830	1.2	345.0	Vert	AV	656.3E-12	-61.8	-13.0	-48.8	AWS Mid Ch (66886)
11126.740	1.2	207.9	Vert	AV	273.6E-12	-65.6	-13.0	-52.6	PCS Mid Ch (8365)

CONCLUSION

Pass

Tested By