



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.9 Variable Booster Gain

2.9.1 Specification Reference

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(C)(1)
FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(I)
KDB935210 D04, Clause 7.9

2.9.2 Standard Applicable

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(C)(1) Booster Gain Limits:
The gain of the frequency selective consumer booster shall meet the limits below.

1) The uplink and downlink gain in dB of a frequency selective consumer booster referenced to its input and output ports shall not exceed BSCL - 28dB - (40 dB - MSCL).

(i) Where BSCL is the coupling loss between the booster's donor Port 1nd the base station's input port, and MSCL is the minimum coupling loss in dB between the wireless device and the booster's server port. MSCL must be calculated or measured for each band of operation and provided in compliance test reports.

(ii) In order of preference, BSCL is determined as follows: determine path loss between the base station and the booster; such measurement shall be based on measuring the received forward pilot/control channel power at the booster and reading the pilot/control channel transmit power from the base station as defined in the system information messages sent by the base station; estimate BSCL by assuming that the base station is transmitting at a level of +25 dBm per channel (assume a small, lightly loaded cell) and measuring the total received signal power level within the channel in dBm (RPCH) received at the booster input port. BSCL is then calculated as 25- RPCH; or assume that the BSCL is 70dB without performing any measurement.

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(I) Transmit Power Off Mode.

When the consumer booster cannot otherwise meet the noise and gain limits defined herein it must operate in "Transmit Power OFF Mode." In this mode of operation, the uplink and downlink noise power shall not exceed -70 dBm/MHz and uplink gain shall not exceed the lesser of 23 dB or MSCL.

2.9.3 Equipment Under Test and Modification State

Serial No: N/A and N/A / Test Configuration A and B

2.9.4 Date of Test/Initial of test personnel who performed the test

August 08, 13 and October 15, 16, 2019/XYZ

2.9.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.9.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	24.5 - 25.8°C
Relative Humidity	45.0 - 53.3%
ATM Pressure	98.9 - 99.0kPa

2.9.7 Additional Observations

- This is conducted Test.
- Test procedure is per Section 7.9 of KDB935210 (D04 Provider Specific Booster Measurements v02r03). Appropriate offset (line losses) applied.
- The EUT operated in Normal Mode
- Setup the EUT according to Figure 1 of Section 6.3.2 of KDB935210.
- Evaluations are conducted at worst case CU and NU antenna ports according to Maximum Booster Gain test result.
- Variable Gain: Operational uplink and downlink bands for WCDMA B5, LTE B4, B12, B13, B25 were tested.
- Uplink Gain Timing: Operational uplink bands for WCDMA B5, LTE B4, B12, B13, B25 were tested.
- Signal: 5MHz WCDMA or LTE.
- MSCL: $L_p = 20\log f + 20\log d - 27.5$

Where: L_p = Basic free space path loss,
 f = frequency in MHz,
 d = separation distance in meters (2m)
lowest MSCL value was utilized.
- BSCL: The coupling loss (in dB) between the donor port (NU) of the Consumer Booster and the input port of the Base Station



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.9.8 Test Results

WCDMA B5 Downlink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-106.5	131.5	-1.13	97.90	98.50	0.60
-96.5	121.5	-1.51	87.52	88.50	0.98
-86.5	111.5	-0.8	78.23	78.50	0.27
-76.5	101.5	-1.5	67.53	68.50	0.97
-66.5	91.5	-1.41	57.62	58.50	0.88
-56.5	81.5	-1.35	47.68	48.50	0.82

WCDMA B5 Uplink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-107.3	142.3	19.39	72.56	99.30	26.74
-97.3	132.3	19.65	72.82	89.30	16.48
-87.3	112.3	19.26	72.43	79.30	6.87
-77.3	102.3	15.27	68.44	69.30	0.86
-67.3	92.3	5.82	58.99	59.30	0.31
-57.3	82.3	-4.46	48.71	49.30	0.59



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE B12 Downlink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-107.39	132.39	4.48	86.38	99.39	13.01
-97.39	122.39	1.27	73.17	89.39	16.22
-87.39	112.39	8.21	70.11	79.39	9.28
-77.39	102.39	8.27	60.17	69.39	9.22
-67.39	92.39	8.42	50.32	59.39	9.07
-57.39	82.39	8.3	40.2	49.39	9.19

LTE B12 Uplink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-107.4	132.4	19.96	75.95	99.40	23.45
-97.4	122.4	19.59	75.58	89.40	13.82
-87.4	112.4	18.2	74.19	79.40	5.21
-77.4	102.4	8.48	64.47	69.40	4.93
-37.4	92.4	-1.7	54.29	59.40	5.11
-57.4	82.4	-10.38	45.61	49.40	3.79

LTE B12 Uplink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-107.4	132.4	19.96	75.95	99.40	23.45
-97.4	122.4	19.59	75.58	89.40	13.82
-87.4	112.4	18.2	74.19	79.40	5.21
-77.4	102.4	8.48	64.47	69.40	4.93
-37.4	92.4	-1.7	54.29	59.40	5.11
-57.4	82.4	-10.38	45.61	49.40	3.79



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE B13 Uplink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-107.36	132.36	14.63	70.66	99.36	28.70
-97.36	122.36	13.48	69.51	89.36	19.85
-87.36	112.36	3.41	59.44	79.36	19.92
-77.36	102.36	-7.92	48.11	69.36	21.25
-67.36	92.36	-15.40	40.63	59.36	18.73
-57.36	82.36	-20.8	35.23	49.36	14.13

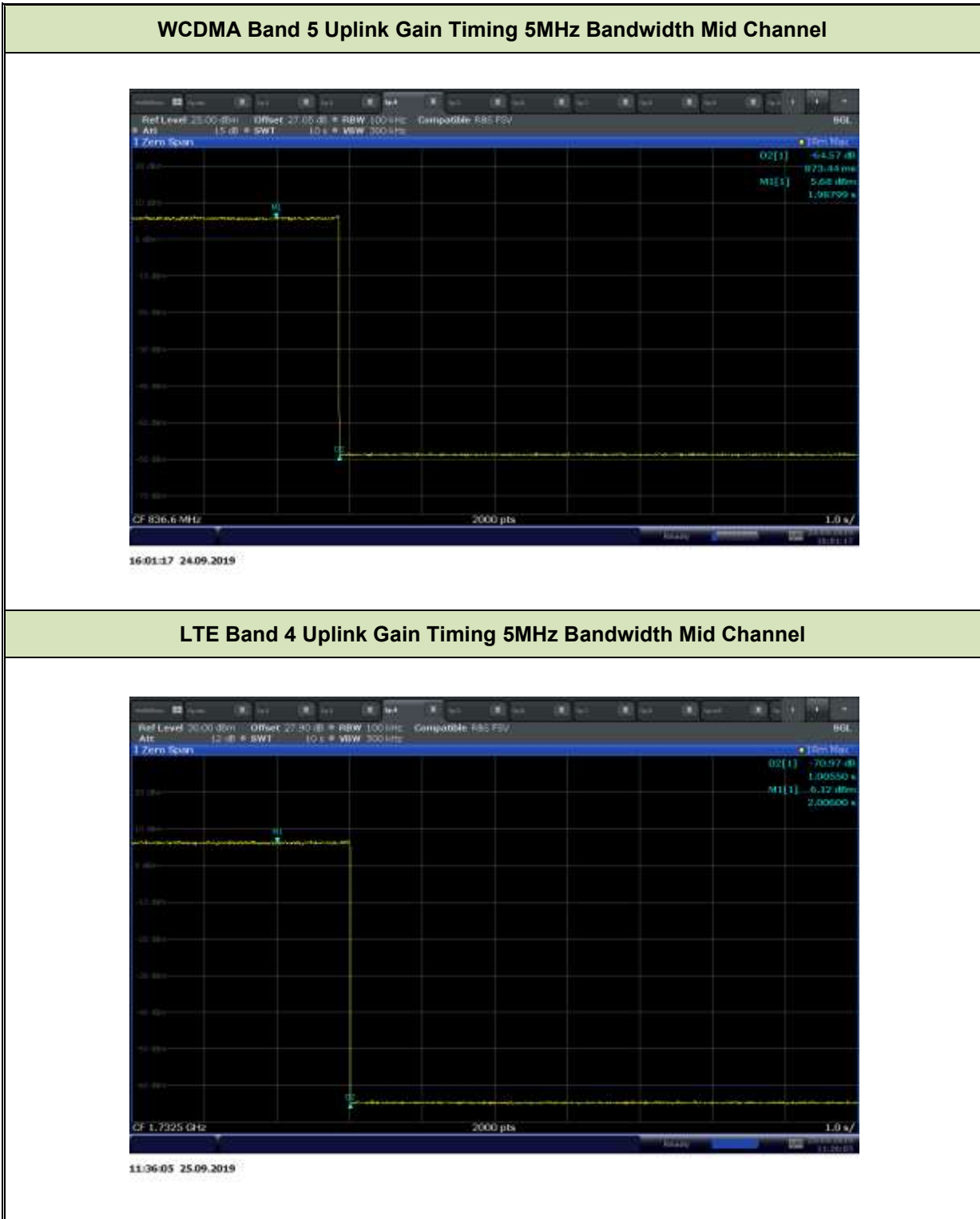
LTE B25 Downlink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-101.60	126.60	8.09	83.63	93.60	9.97
-91.60	116.60	8.58	74.12	83.60	9.48
-81.60	106.60	8.78	64.32	73.60	9.28
-71.60	96.60	9.25	54.79	63.60	8.81
-61.60	86.60	8.89	44.43	53.60	9.17
-51.60	76.60	8.58	34.12	43.60	9.48

LTE B25 Uplink Gain vs RPCH and BSCL - Middle Channel					
RPCH Power (dBm)	BSCL (dB)	Measured Power (dBm)	Gain (dB)	Limit (dB)	Margin (dB)
-108.60	133.60	19.17	78.41	100.60	22.19
-98.60	123.60	19.21	78.45	90.60	12.15
-88.60	113.60	19.0	78.24	80.60	2.36
-78.60	103.60	9.11	68.35	70.60	2.25
-68.60	93.60	-1.07	58.17	60.60	2.43
-58.60	83.60	-10.68	48.56	50.60	2.04



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.9.9 Test Results Plots





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 12 Uplink Gain Timing 5MHz Bandwidth Mid Channel



12:17:49 25.09.2019

LTE Band 13 Uplink Gain Timing_5MHz Bandwidth Mid Channel



13:46:54 25.09.2019



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Uplink Gain Timing_5MHz Bandwidth Mid Channel





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.10 Occupied Bandwidth

2.10.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1049
FCC 47 CFR Part 22, Clause 22.917(b)
FCC 47 CFR Part 24, Clause 24.238(b)
RSS-Gen, Clause 6.6

2.10.2 Standard Applicable

FCC 47 CFR Part 24, Clause 24.238(b)

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

26dB Bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least 26 dB below the transmitter power.

Using the occupied bandwidth measurement function in the spectrum analyzer, the 99% occupied bandwidth was measured.

In addition, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 V0202 Clause 4.1 using the ndB measurement function in the spectrum analyzer.

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be at least 3x RBW.

2.10.3 Equipment Under Test and Modification State

Serial No: N/A and N/A / Test Configuration A and B

2.10.4 Date of Test/Initial of test personnel who performed the test

November 06, 07 and 28, 2022 / MAR

2.10.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.10.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	21.8 - 24.3 °C
Relative Humidity	40.0 – 45.3 %
ATM Pressure	99.8 – 101.1kPa

2.10.7 Additional Observations

- This is a conducted test. Both 26dB bandwidth and 99% bandwidth presented.



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

- Using the occupied bandwidth measurement function in the spectrum analyzer, the 99% occupied bandwidth was measured.
- The 26dB bandwidth is measured in accordance with ANSI C63.26 clause 5.4.3 using the ndB measurement function in the spectrum analyzer.
- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The RBW is set to 1% of the OBW while the VBW is $\geq 3X$ RBW.
- The detector is peak and the trace mode is max hold.
- All low, middle and high channels were verified. Only test plots for middle channel presented in this test rePort 1s the representative configuration.



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.10.8 Test Results

WCDMA Band 5 Downlink			
Channel	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
4357	871.4	3.87	4.54
4408	881.6	3.87	4.50
4458	891.6	3.88	4.54

WCDMA Band 5 Uplink			
Channel	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
4132	826.4	4.04	4.57
4183	836.6	4.05	4.55
4233	846.6	4.05	4.57



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	1975	2112.5	4.63	4.97
	2175	2132.5	4.72	4.94
	2375	2152.5	4.70	4.95
10 MHz	2000	2115.0	9.31	10.04
	2175	2132.5	9.29	9.90
	2350	2150.0	9.30	9.87
15 MHz	2025	2117.5	13.64	14.75
	2175	2132.5	13.61	14.84
	2325	2147.5	13.65	14.76
20 MHz	2050	2120.0	18.35	19.66
	2175	2132.5	18.34	19.64
	2300	2145.0	18.42	19.70

LTE Band 4 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	19975	1712.5	4.64	4.94
	20175	1732.5	4.63	4.93
	20375	1752.5	4.64	4.94
10 MHz	20000	1715.0	9.26	9.91
	20175	1732.5	9.25	9.87
	20350	1750.0	9.24	9.88
15 MHz	20025	1717.5	13.68	14.78
	20175	1732.5	13.65	14.77
	20325	1747.5	13.64	14.77
20 MHz	20050	1720.0	18.45	19.70
	20175	1732.5	18.42	19.70
	20300	1745.0	18.31	19.68



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 12 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	5035	731.5	4.70	5.17
	5095	737.5	4.71	5.17
	5155	743.5	4.73	4.99
10 MHz	5060	734.0	9.17	9.82
	5095	737.5	9.19	9.86
	5130	741.0	9.24	9.87

LTE Band 12 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	23035	701.5	4.60	4.92
	23095	707.5	4.64	4.96
	23155	713.5	4.62	4.93
10 MHz	23060	704.0	9.22	9.81
	23095	707.5	9.25	9.84
	23130	711.0	9.22	9.76



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 13 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	5205	748.5	4.62	4.96
	5230	751.0	4.62	4.93
	5255	753.5	4.62	4.95
10 MHz	-	-	-	-
	5230	751.0	9.20	9.85
	-	-	-	-

LTE Band 13 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	23205	779.5	4.72	5.00
	23230	782.0	4.63	4.94
	23255	784.5	4.64	4.93
10 MHz	-	-	-	-
	23230	782.0	9.17	9.82
	-	-	-	-



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	8065	1932.5	4.48	4.97
	8365	1962.5	4.47	4.95
	8665	1992.5	4.63	4.95
10 MHz	8090	1935.0	8.95	9.63
	8365	1962.5	8.96	9.66
	8640	1990.0	8.95	9.85
15 MHz	8115	1937.5	13.33	14.63
	8365	1962.5	13.37	14.68
	8615	1987.5	13.32	14.69
20 MHz	8140	1940.0	17.83	19.53
	8365	1962.5	17.84	19.51
	8590	1985.0	17.93	19.60

LTE Band 25 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	26065	1852.5	4.47	4.93
	26365	1882.5	4.46	4.93
	26665	1912.5	4.47	4.93
10 MHz	26090	1855.0	8.89	9.86
	26365	1882.5	8.98	9.88
	26640	1910.0	8.95	9.85
15 MHz	26115	1857.5	13.43	14.40
	26365	1882.5	13.37	14.32
	26615	1907.5	13.32	14.38
20 MHz	26140	1860.0	17.98	19.44
	26365	1882.5	18.36	19.55
	26590	1905.0	17.87	19.30



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

WCDMA Band 5 Downlink Mid Channel 99% OBW



10:26:15 06.11.2022

WCDMA Band 5 Downlink Mid Channel -26dB BW



13:34:17 28.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

WCDMA Band 5 Uplink Mid Channel 99% OBW



14:14:59 28.11.2022

WCDMA Band 5 Uplink Mid Channel -26dB BW



14:15:14 28.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Downlink (5 MHz BW) / Mid Channel 2132.5 MHz / 99%OBW



09:33:55 15.11.2022

LTE Band 4 Downlink (5 MHz BW) / Mid Channel 2132.5 MHz / 26dB BW



07:17:29 09.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Downlink (10 MHz BW) / Mid Channel 2132.5 MHz / 99%OBW



09:39:12 15.11.2022

LTE Band 4 Downlink (10 MHz BW) / Mid Channel 2132.5 MHz / 26dB BW



08:45:49 09.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Downlink (15 MHz BW) / Mid Channel 2132.5 MHz / 99%OBW



09:42:48 15.11.2022

LTE Band 4 Downlink (15 MHz BW) / Mid Channel 2132.5 MHz / 26dB BW



09:15:23 09.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Downlink (20 MHz BW) / Mid Channel 2132.5 MHz / 99%OBW



LTE Band 4 Downlink (20 MHz BW) / Mid Channel 2132.5 MHz / 26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Uplink (5 MHz BW) / Mid Channel 1732.5 MHz / 99%OBW



11:05:06 13.11.2022

LTE Band 4 Uplink (5 MHz BW) / Middle Channel 1732.5 MHz / 26dB BW



11:05:18 13.11.2022

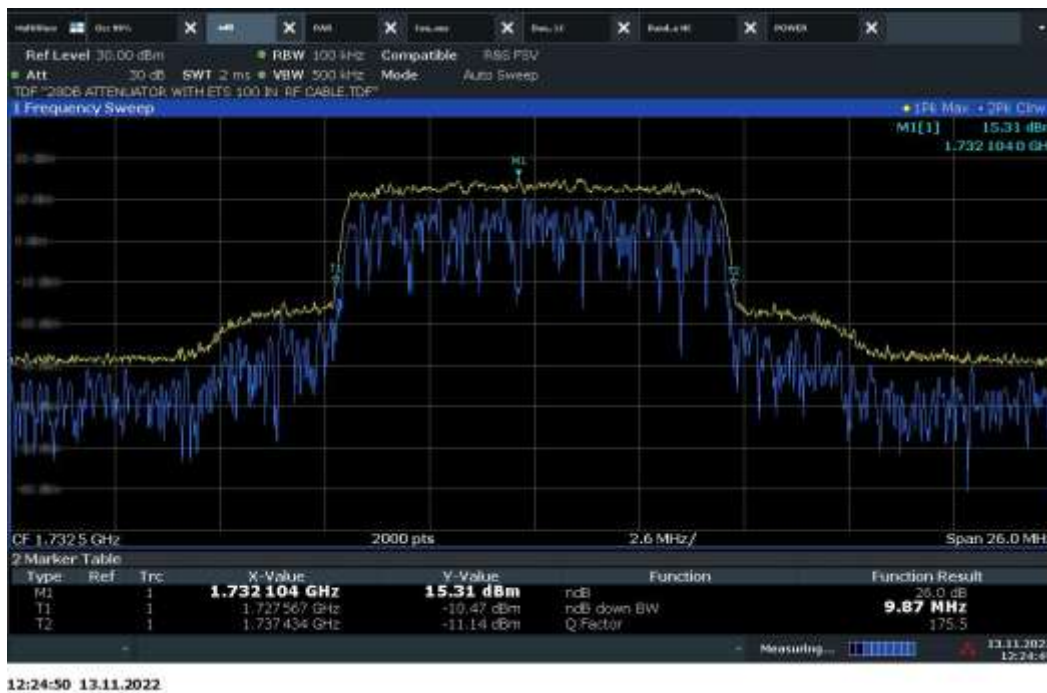


FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Uplink (10 MHz BW) / Mid Channel 1732.5 MHz / 99%OBW



LTE Band 4 Uplink (10 MHz BW) / MidChannel 1732.5 MHz / 26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Uplink (15 MHz BW) / Mid Channel 1732.5 MHz / 99%OBW



12:50:01 13.11.2022

LTE Band 4 Uplink (15 MHz BW) / Mid Channel 1732.5 MHz / 26dB BW



12:50:20 13.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 4 Uplink (20 MHz BW) / Mid Channel 1732.5 MHz / 99%OBW



13:26:01 13.11.2022

LTE Band 4 Uplink (20 MHz BW) / Mid Channel 1732.5 MHz / 26dB BW



13:26:18 13.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 12 Downlink (5 MHz BW) / Mid Channel 737.5 MHz / 99%OBW



10:01:51 15.11.2022

LTE Band 12 Downlink (5 MHz BW) / Mid Channel 737.5 MHz / 26dB BW



10:02:12 15.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 12 Downlink (10 MHz BW) / Mid Channel 737.5 MHz / 99%OBW



LTE Band 12 Downlink (10 MHz BW) / Mid Channel 737.5 MHz / 26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 12 Uplink (5 MHz BW) / Mid Channel 707.5 MHz / 99%OBW



06:59:49 14.11.2022

LTE Band 12 Uplink (5 MHz BW) / Mid Channel 707.5 MHz / 26dB BW



07:06:04 14.11.2022



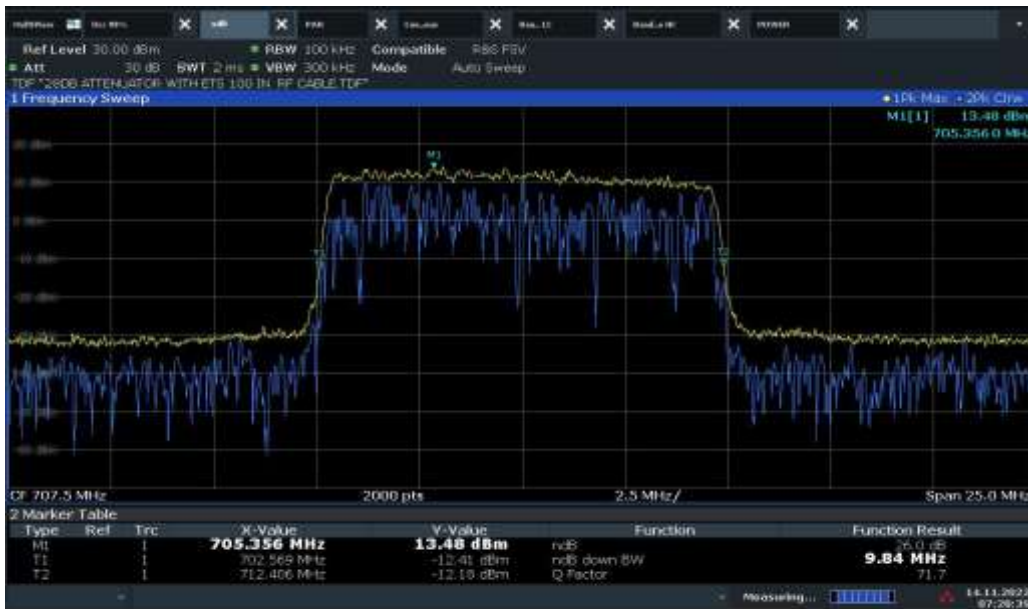
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 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 12 Uplink (10 MHz BW) / Mid Channel 707.5 MHz / 99%OBW



07:09:26 17.11.2022

LTE Band 12 Uplink (10 MHz BW) / Mid Channel 707.5 MHz / 26dB BW



07:28:40 14.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 13 Downlink (5 MHz BW) / Mid Channel 751.0 MHz / 99%OBW

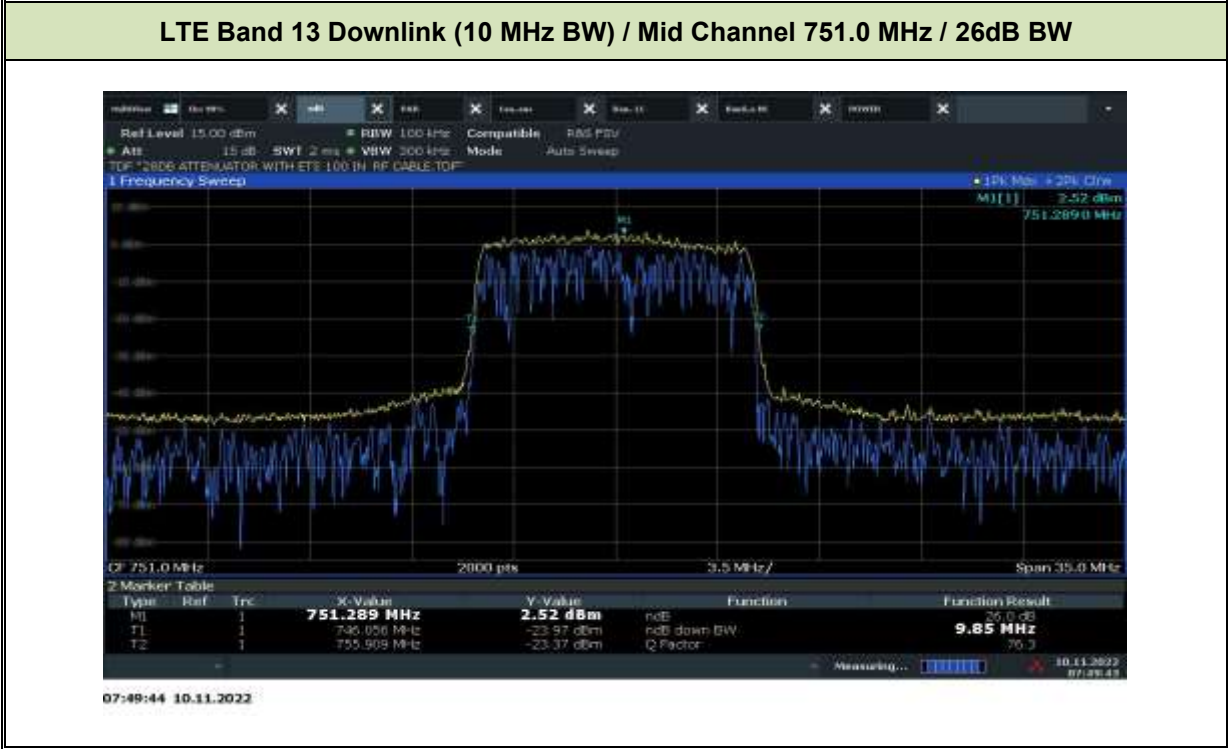
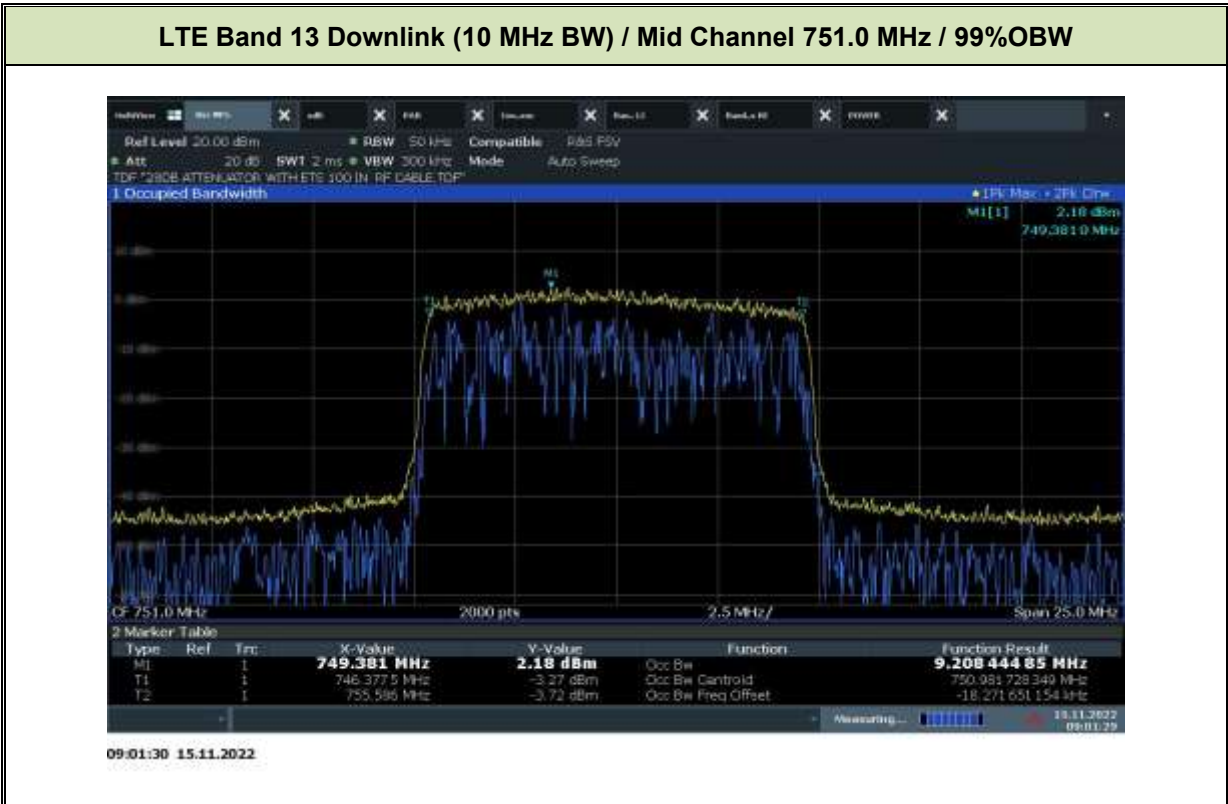


LTE Band 13 Downlink (5 MHz BW) / Mid Channel 751.0 MHz / 26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 13 Uplink (5 MHz BW) / Mid Channel 782.0 MHz / 99%OBW



10:35:56 15.11.2022

LTE Band 13 Uplink (5 MHz BW) / Mid Channel 782.0 MHz / 26dB BW

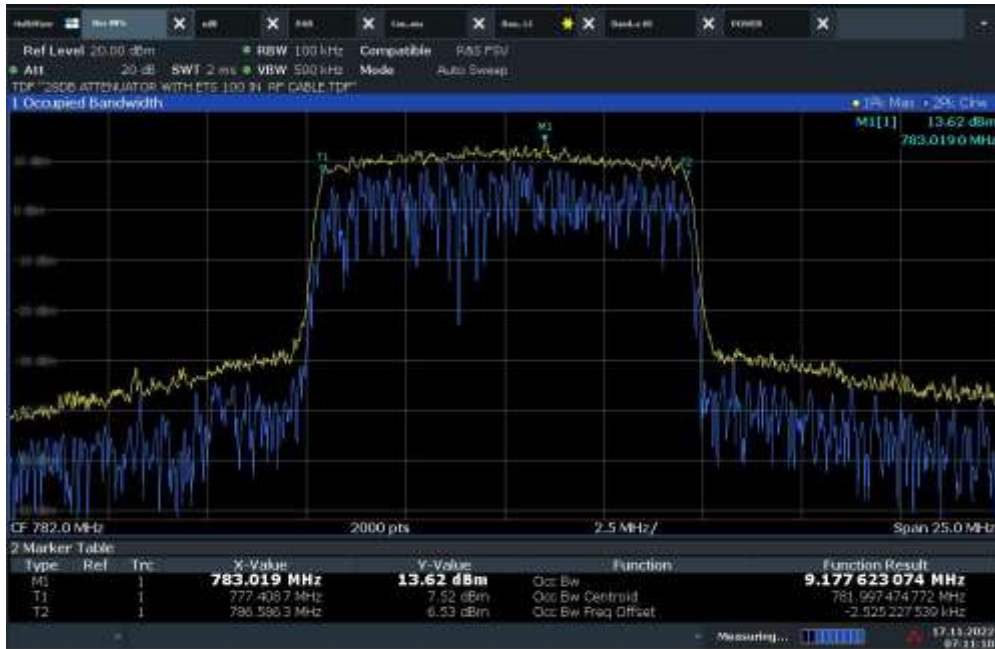


10:36:22 15.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 13 Uplink (10 MHz BW) / Mid Channel 782.0 MHz / 99%OBW



LTE Band 13 Uplink (10 MHz BW) / Mid Channel 782.0 MHz / 26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Downlink_5 MHz BW_Mid Channel 99% OBW



LTE Band 25 Downlink_5 MHz BW_Mid Channel -26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Downlink_10 MHz BW_Mid Channel 99% OBW



LTE Band 25 Downlink_10 MHz BW_Mid Channel -26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Downlink_15 MHz BW_Mid Channel 99% OBW



LTE Band 25 Downlink_15MHz BW_Mid Channel -26dB BW



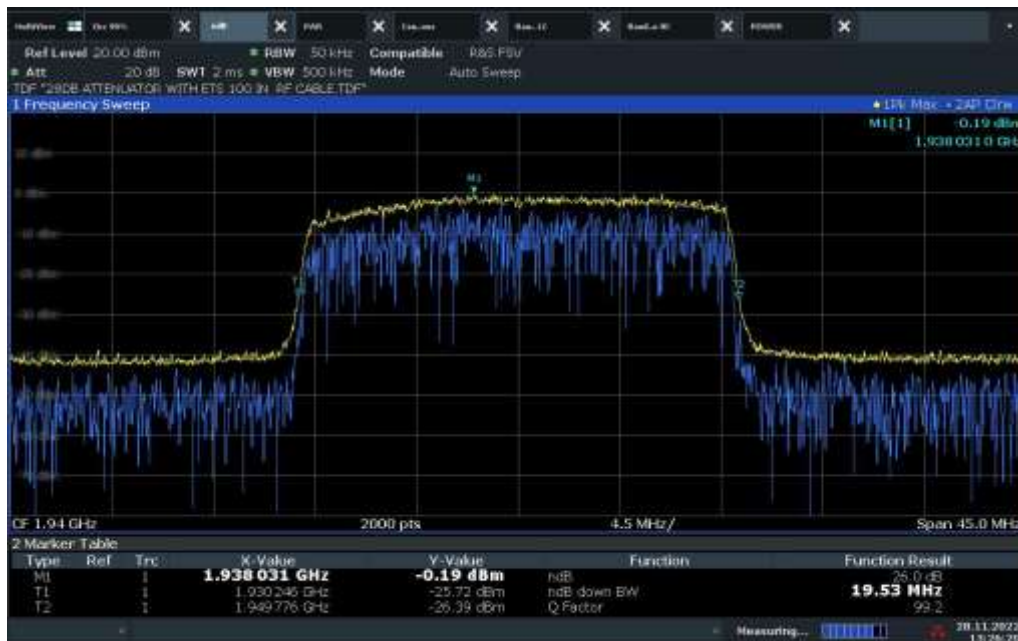


FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Downlink_20 MHz BW_Mid Channel 99% OBW



LTE Band 25 Downlink_20 MHz BW_Mid Channel -26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Uplink_5 MHz BW_Mid Channel 99% OBW



LTE Band 25 Uplink_5 MHz BW_Mid Channel -26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Uplink_10 MHz BW_Mid Channel 99% OBW



06:32:51 07.11.2022

LTE Band 25 Uplink_10 MHz BW_Mid Channel -26dB BW



13:54:23 28.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Uplink_15 MHz BW_Mid Channel 99% OBW



06:52:27 07.11.2022

LTE Band 25 Uplink_15 MHz BW_Mid Channel -26dB BW



06:52:57 07.11.2022



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

LTE Band 25 Uplink_20 MHz BW_Mid Channel 99% OBW



LTE Band 25 Uplink_20 MHz BW_Mid Channel -26dB BW





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.11 Oscillation Detection

2.11.1 Specification Reference

FCC 47 CFR Part 20. Clause 20.21(e)(9)(ii)(A)
KDB935210 D04, Clause 7.11

2.11.2 Standard Applicable

FCC 47 CFR Part 20. Clause 20.21(e)(9)(ii)(A) Anti-Oscillation:

Consumer boosters must be able to detect and mitigate (i.e., by automatic gain reduction or shut down), any oscillations in uplink and downlink bands. Oscillation detection and mitigation must occur automatically within 0.3 seconds in the uplink band and within 1 second in the downlink band. In cases where oscillation is detected, the booster must continue mitigation for at least one minute before restarting. After five such restarts, the booster must not resume operation until manually reset.

2.11.3 Equipment Under Test and Modification State

Serial No: 370920000139 (NU) and 371929000156 (CU) / Test Configuration A and B

2.11.4 Date of Test/Initial of test personnel who performed the test

August 08, 13 and October 15, 16, 2019/XYZ

2.11.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.11.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	24.5 - 25.8°C
Relative Humidity	45.0 - 53.3%
ATM Pressure	98.9 - 99.0kPa

2.11.7 Additional Observations

- This is conducted Test.
- Test procedure is per Section 7.11 of KDB935210 (D04 Provider Specific Booster Measurements v02r03). Appropriate offset (line losses) applied.
- The EUT operated in Normal Mode when testing Oscillation Mitigation Time. Setup the EUT according to Figure 10 and 11 of Section 7.11 of KDB935210 for Normal Mode.
- The EUT operated in Test Mode when testing Re-Try event. Setup the EUT according to Figure 12 of Section 7.11 of KDB935210 for Test Mode.
- Evaluations are conducted at CU and NU antenna ports.
- Signal: 5MHz WCDMA or LTE.



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.11.8 Test Results Summary

Band	Signal Path	Frequency (MHz)	Mitigation Time (Sec)	Limit (Sec)	Margin (Sec)
WCDMA Band 5 Downlink	CU with NU Port 1	881.6	0.043	1	0.957
WCDMA Band 5 Uplink	NU Port 1	836.6	0.033	0.3	0.267
LTE Band 4 Downlink	CU with NU Port 1	2132.5	0.040	1	0.960
LTE Band 4 Uplink	NU Port 1	1732.5	0.035	0.3	0.265
LTE Band 4 Downlink	CU with NU Port B	2132.5	0.035	1	0.965
LTE Band 4 Uplink	NU Port B	1732.5	0.028	0.3	0.272
LTE Band 4 Downlink	CU with NU Port 2	2132.5	0.023	1	0.977
LTE Band 4 Uplink	NU Port 2	1732.5	0.025	0.3	0.275
LTE Band 12 Downlink	CU with NU Port 1	737.5	0.025	1	0.975
LTE Band 12 Uplink	NU Port 1	707.5	0.025	0.3	0.275
LTE Band 12 Downlink	CU with NU Port B	737.5	0.040	1	0.960
LTE Band 12 Uplink	NU Port B	707.5	0.023	0.3	0.277
LTE Band 13 Downlink	CU with NU Port 2	751.0	0.028	1	0.972
LTE Band 13 Uplink	NU Port 2	782.0	0.028	0.3	0.272
LTE Band 25 Downlink	CU with NU Port 1	1962.5	0.038	1	0.962
LTE Band 25 Uplink	NU Port 1	1882.5	0.033	0.3	0.267
LTE Band 25 Downlink	CU with NU Port B	1962.5	0.028	1	0.972
LTE Band 25 Uplink	NU Port B	1882.5	0.040	0.3	0.260
LTE Band 25 Downlink	CU with NU Port 2	1962.5	0.030	1	0.970
LTE Band 25 Uplink	NU Port 2	1882.5	0.020	0.3	0.280



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Band	Signal Path	Frequency (MHz)	Re-try Event	Limit Event	Margin (Sec)
WCDMA Band 5 Downlink	CU with NU Port 1	881.6	0	5	5
WCDMA Band 5 Uplink	NU Port 1	836.6	0	5	5
LTE Band 4 Downlink	CU with NU Port 1	2132.5	0	5	5
LTE Band 4 Uplink	NU Port 1	1732.5	0	5	5
LTE Band 4 Downlink	CU with NU Port 2	2132.5	0	5	5
LTE Band 4 Uplink	NU Port 2	1732.5	0	5	5
LTE Band 12 Downlink	CU with NU Port 1	737.5	0	5	5
LTE Band 12 Uplink	NU Port 1	707.5	0	5	5
LTE Band 25 Downlink	CU with NU Port 1	1962.5	0	5	5
LTE Band 25 Uplink	NU Port 1	1882.5	0	5	5
LTE Band 25 Downlink	CU with NU Port 2	1962.5	0	5	5
LTE Band 25 Uplink	NU Port 2	1882.5	0	5	5

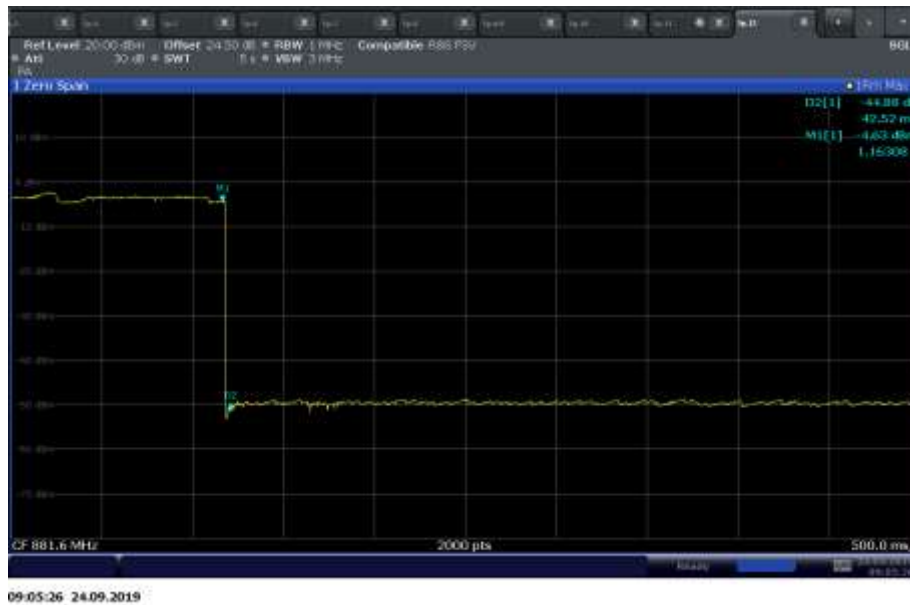
Band	Signal Path	Frequency (MHz)	Level	Peak Oscillation Level	Level
WCDMA Band 5 Downlink	CU with NU Port 1	869.27	-71.75	< 2dB	12
WCDMA Band 5 Uplink	NU Port 1	826.45	-72.75	< 2dB	12
LTE Band 4 Downlink	CU with NU Port 1	2117.02	-70.70	< 2dB	12
LTE Band 4 Uplink	NU Port 1	1757.66	-71.54	< 2dB	12
LTE Band 4 Downlink	CU with NU Port 2	2145.05	-70.52	< 2dB	12
LTE Band 4 Uplink	NU Port 2	1711.84	-71.28	< 2dB	12
LTE Band 12 Downlink	CU with NU Port 1	746.38	-72.05	< 2dB	12
LTE Band 12 Uplink	NU Port 1	715.91	-71.59	< 2dB	12
LTE Band 25 Downlink	CU with NU Port 1	1994.85	-70.20	< 2dB	12
LTE Band 25 Uplink	NU Port 1	1917.57	-71.06	< 2dB	12
LTE Band 25 Downlink	CU with NU Port 2	1932.11	-71.05	< 2dB	12
LTE Band 25 Uplink	NU Port 2	1914.80	-71.24	< 2dB	12



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.11.9 Test Results Plots

Mitigation Time - WCDMA Band 5 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



Mitigation Time - WCDMA Band 5 Uplink 5MHz Bandwidth Mid Channel - NU Port 1





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Mitigation Time - LTE Band 4 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



Mitigation Time - LTE Band 4 Uplink 5MHz Bandwidth Mid Channel - NU Port 1





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Mitigation Time - LTE Band 4 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 2



Mitigation Time - LTE Band 4 Uplink 5MHz Bandwidth Mid Channel - NU Port 2





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Mitigation Time - LTE Band 12 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



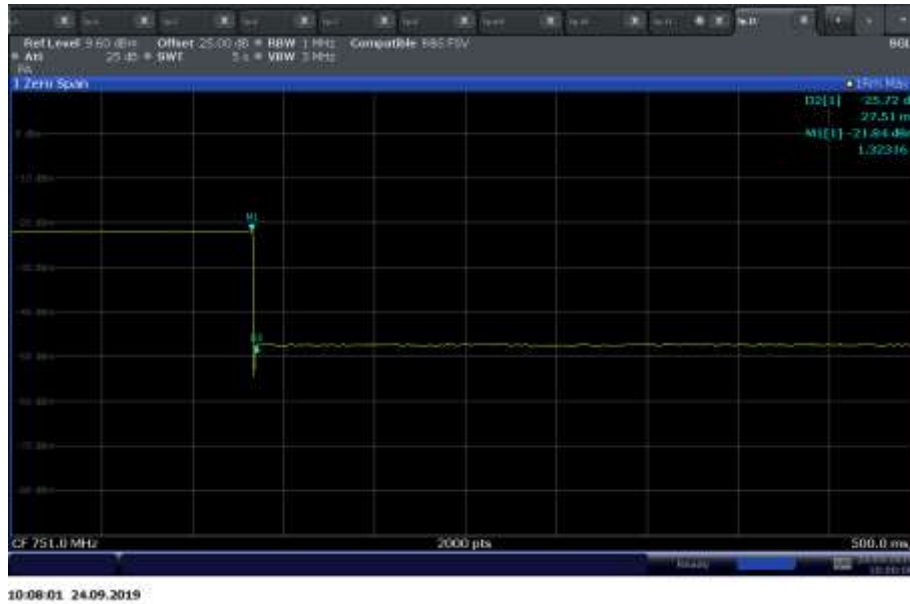
Mitigation Time - LTE Band 12 Uplink 5MHz Bandwidth Mid Channel - NU Port 1





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Mitigation Time - LTE Band 13 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 2



Mitigation Time - LTE Band 13 Uplink 5MHz Bandwidth Mid Channel - NU Port 2





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Mitigation Time - LTE Band 25 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



Mitigation Time - LTE Band 25 Uplink 5MHz Bandwidth Mid Channel - NU Port 1





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Mitigation Time - LTE Band 25 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 2



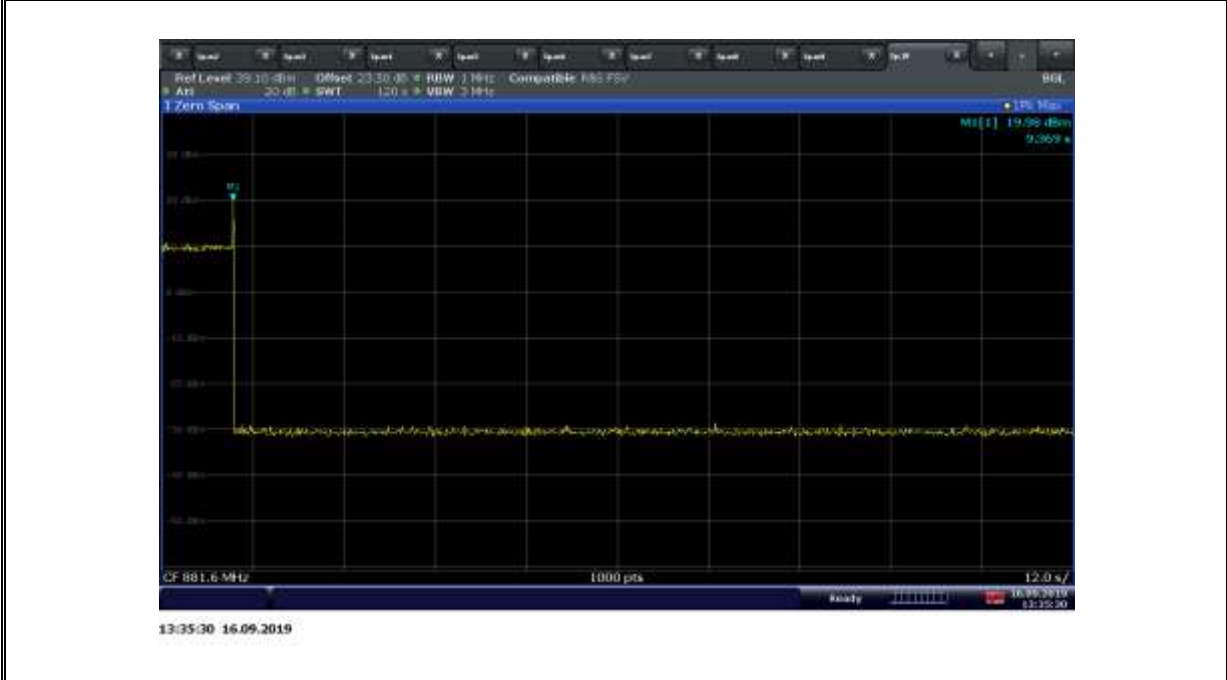
Mitigation Time - LTE Band 25 Uplink 5MHz Bandwidth Mid Channel - NU Port 2





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - WCDMA LTE Band 5 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



Retry Event - WCDMA LTE Band 5 Uplink 5MHz Bandwidth Mid Channel - NU Port 1





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 4 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



Retry Event - LTE Band 4 Uplink 5MHz Bandwidth Mid Channel - NU Port 1





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 4 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 2



Retry Event - LTE Band 4 Uplink 5MHz Bandwidth Mid Channel - NU Port 2



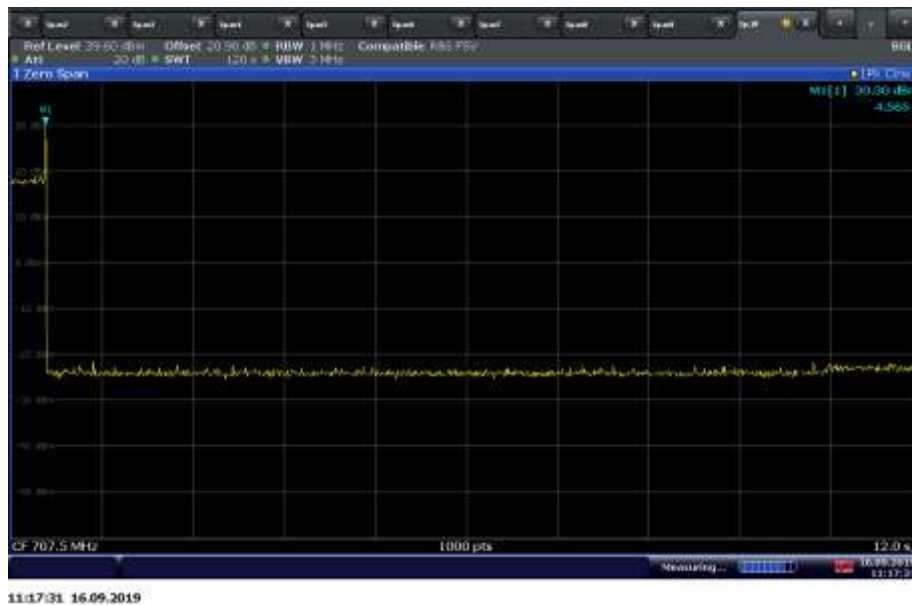


FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 12 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



Retry Event - LTE Band 12 Uplink 5MHz Bandwidth Mid Channel - NU Port 1



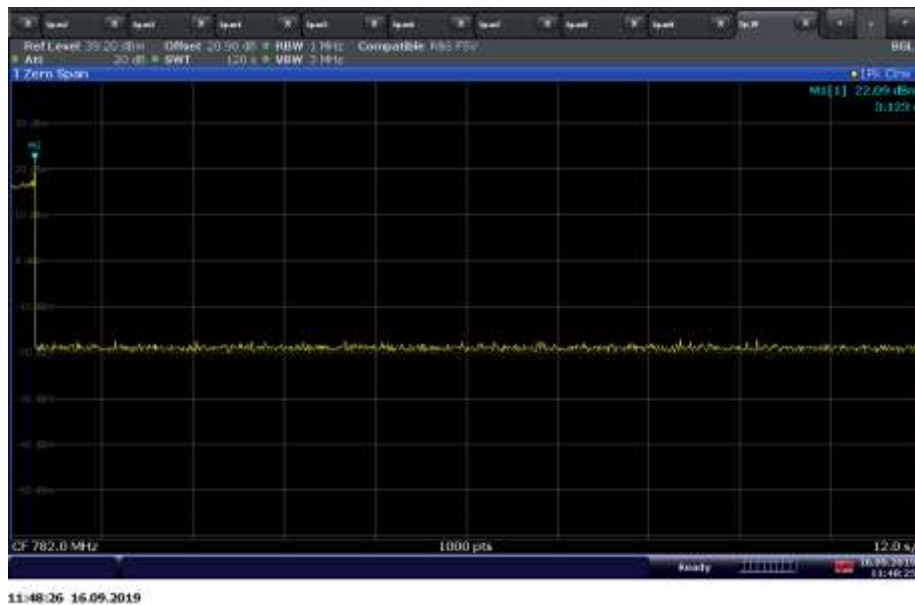


FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 13 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 2



Retry Event - LTE Band 13 Uplink 5MHz Bandwidth Mid Channel - NU Port 2





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 25 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 1



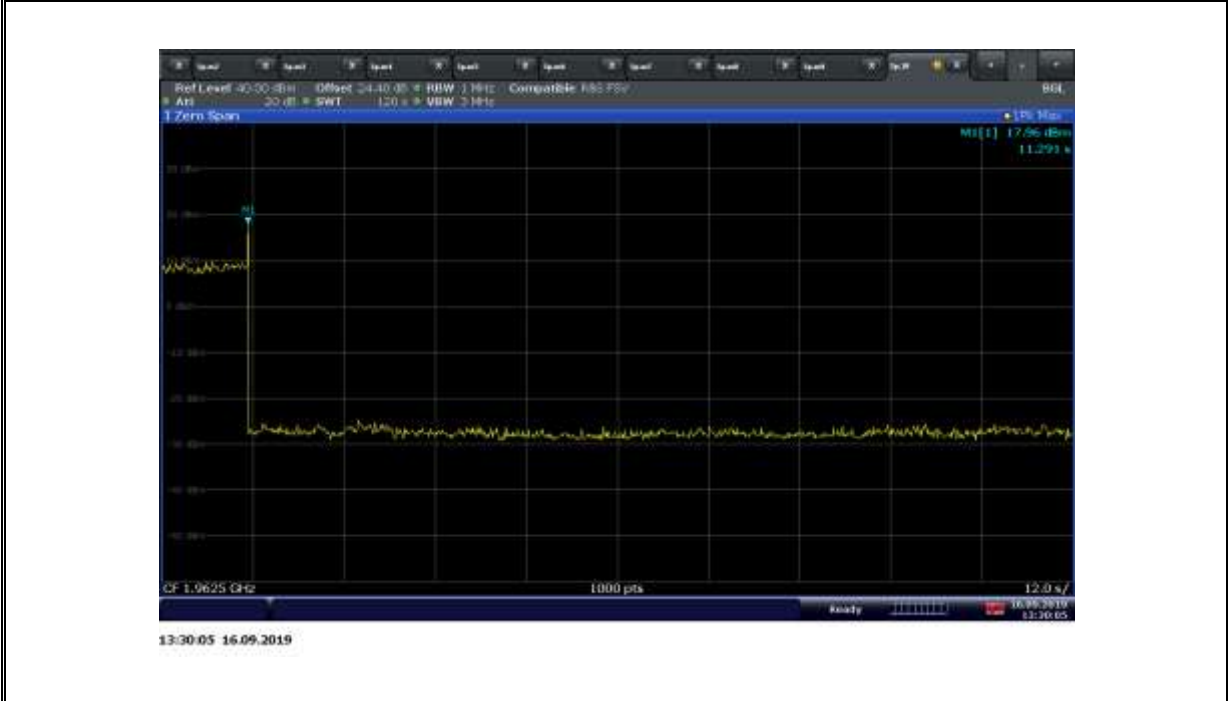
Retry Event - LTE Band 25 Uplink 5MHz Bandwidth Mid Channel - NU Port 1



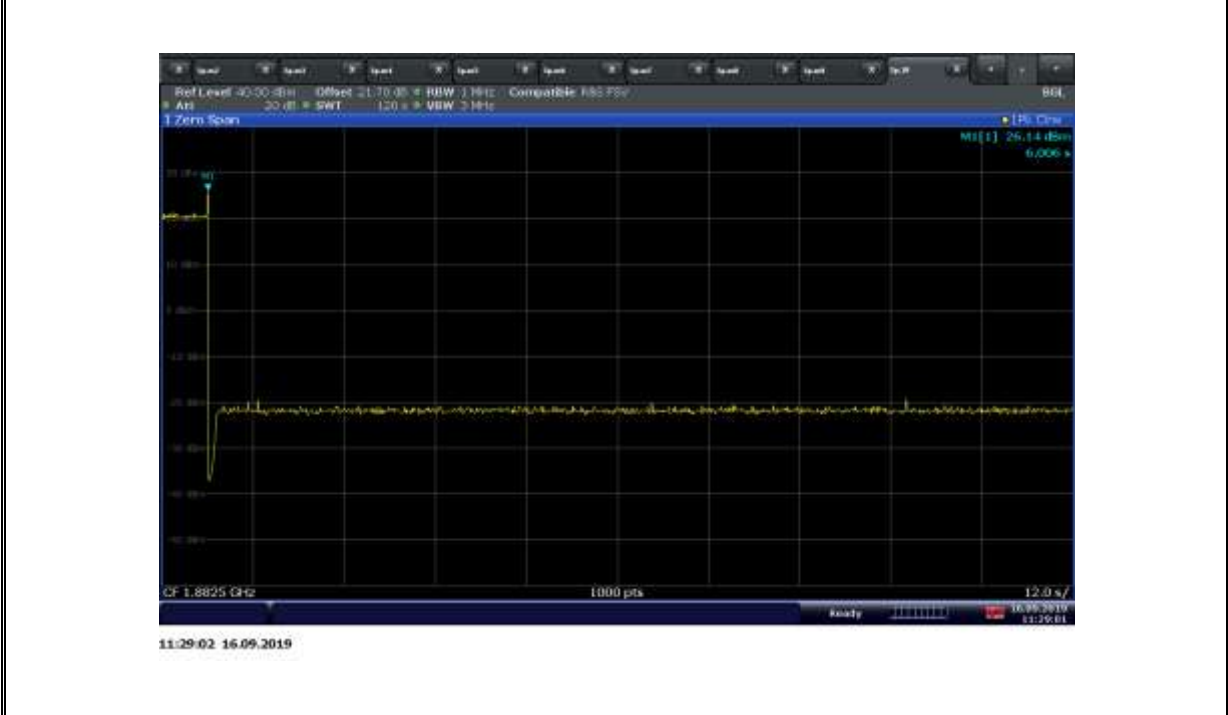


FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 25 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port 2



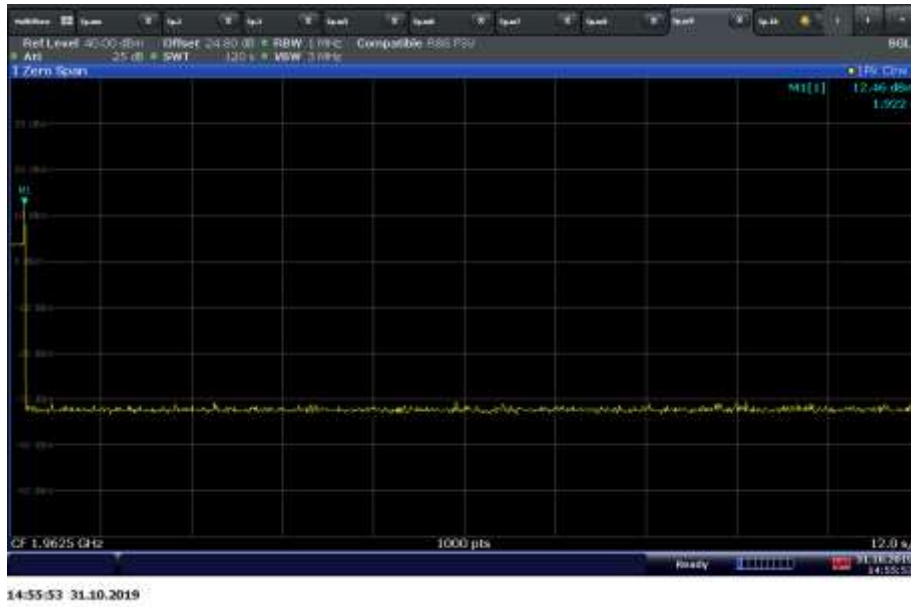
Retry Event - LTE Band 25 Uplink 5MHz Bandwidth Mid Channel - NU Port 2





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

Retry Event - LTE Band 25 Downlink 5MHz Bandwidth Mid Channel - CU with NU Port D



Retry Event - LTE Band 25 Uplink 5MHz Bandwidth Mid Channel - NU Port D





FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12 Field Strength Of Spurious Radiation

2.12.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1053
FCC 47 CFR Part 22, Clause 22.917(a)
FCC 47 CFR Part 24, Clause 24.238(a)
RSS-132, Clause 5.5
RSS-133, Clause 6.5

2.12.2 Standard Applicable

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC 47 CFR Part 27, Clause 27.53:

(h) AWS emission limits – (1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

(g) For operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(a) For operations in the 2305–2320 MHz band and the 2345–2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (1) For base and fixed stations' operations in the 2305–2320 MHz band and the 2345–2360 MHz band:
 - (i) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than $75 + 10 \log(P)$ dB on all frequencies between 2320 and 2345 MHz;
 - (ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $70 + 10 \log(P)$ dB on all frequencies between 2287.5 and 2300 MHz, $72 + 10 \log(P)$ dB on all frequencies between 2285 and 2287.5 MHz, and $75 + 10 \log(P)$ dB below 2285 MHz;



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2362.5 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2362.5 and 2365 MHz, $70 + 10 \log(P)$ dB on all frequencies between 2365 and 2367.5 MHz, $72 + 10 \log(P)$ dB on all frequencies between 2367.5 and 2370 MHz, and $75 + 10 \log(P)$ dB above 2370 MHz.

RSS-139, Clause 6.6:

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (dBW), by at least $43 + 10 \log_{10} p$ (watts) dB.

RSS-130:

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

RSS-195, Clause 5.6.1:

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P(dBW), by the amount indicated in Table 1 and graphically represented in Figure 1, where p is the transmitter output power measured in watts.

Table 1 – Unwanted Emissions for Base Stations, Fixed Station and High-Power Fixed Subscriber Equipment	
Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2285	$75 + 10 \log_{10}(p)$
2285 – 2287.5	$72 + 10 \log_{10}(p)$
2287.5 - 2300	$70 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 -2345	$75 + 10 \log_{10}(p)$
2345 -2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 – 2362.5	$43 + 10 \log_{10}(p)$
2362.5 - 2365	$55 + 10 \log_{10}(p)$
2365 – 2367.5	$70 + 10 \log_{10}(p)$
2367.5 - 2370	$72 + 10 \log_{10}(p)$
2370 - 2395	$75 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for the various equipment types.



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.3 Equipment Under Test and Modification State

Serial No: N/A and N/A / Test Configuration C and D

2.12.4 Date of Test/Initial of test personnel who performed the test

November 30 to December 16, 2022 / FSC

2.12.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.12.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	25.8 - 26.4°C
Relative Humidity	31.1 - 53.7%
ATM Pressure	98.5 - 99.1kPa

2.12.7 Additional Observations

- This is a radiated test using substitution method as per Unwanted Emissions: Radiated Spurious method of measurement of C63.26 2015.
- Only the worst case configuration presented in this test report.
- This is cabinet spurious emissions testing. Main antenna port was terminated during the test. Fundamental frequency measurement will be ignored for this test.
- There are no significant differences observed between channels and bandwidth configurations (cabinet spurious with TX antenna terminated). Only the worst-case configuration observed during verification presented in this test report.
- Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only.

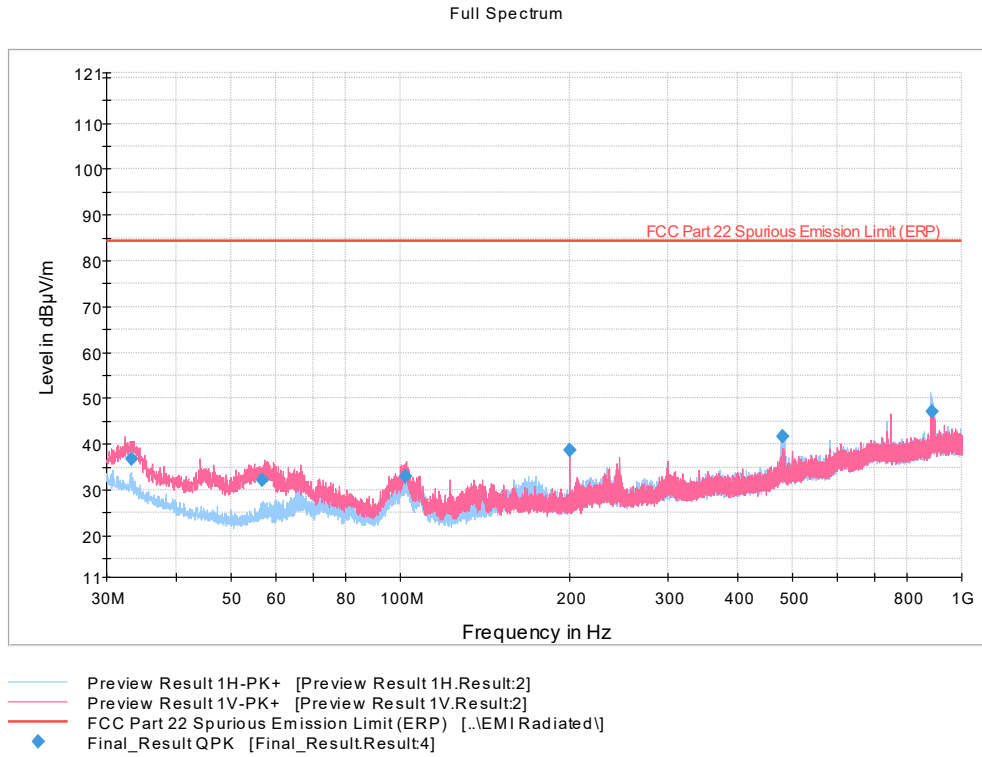
2.12.8 Test Results

Compliant. See attached plots.



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.9 Test Results Below 1GHz (WCDMA Band 5 Downlink Worst Case Configuration) - 15MHz Bandwidth High Channel



Quasi Peak Data

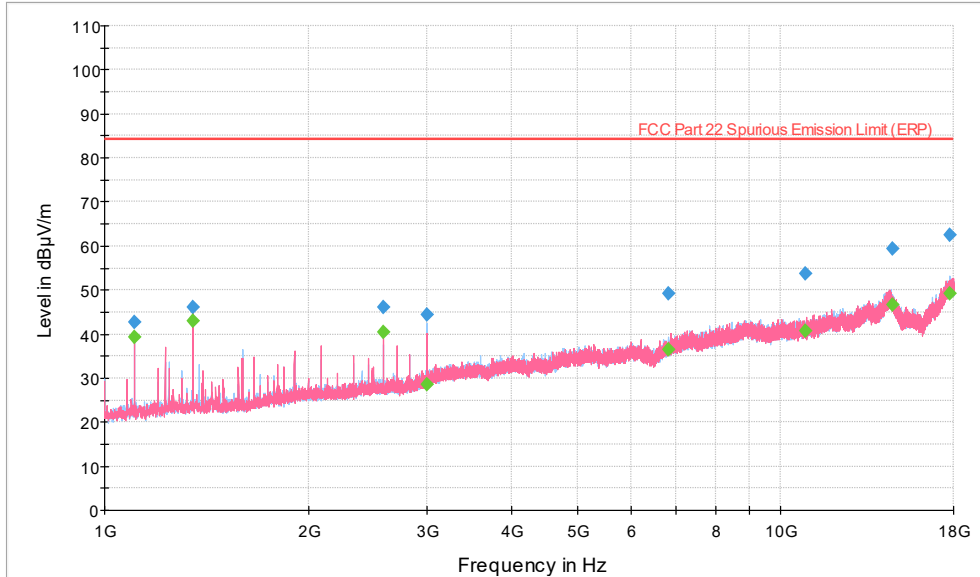
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.248000	36.67	84.38	47.71	1000.0	120.000	100.0	V	119.0	20
56.731000	32.25	84.38	52.13	1000.0	120.000	106.0	V	11.0	14
102.196000	33.06	84.38	51.32	1000.0	120.000	125.0	V	171.0	16
200.008667	38.66	84.38	45.72	1000.0	120.000	100.0	V	60.0	17
479.990333	41.61	84.38	42.77	1000.0	120.000	176.0	H	247.0	25
882.955333	47.01	84.38	37.37	1000.0	120.000	125.0	H	245.0	30



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.10 Test Results Above 1GHz (WCDMA Band 5 Downlink Worst Case Configuration) - 15MHz Bandwidth High Channel

Full Spectrum



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 22 Spurious Emission Limit (ERP) [..EMI Radiated]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	42.84	84.38	41.54	1000.0	1000.000	145.0	V	220.0	-9
1351.533333	46.18	84.38	38.20	1000.0	1000.000	142.0	V	216.0	-7
2580.633333	45.98	84.38	38.40	1000.0	1000.000	125.0	V	209.0	-2
2999.566667	44.53	84.38	39.85	1000.0	1000.000	358.0	H	21.0	-1
6825.533333	49.33	84.38	35.05	1000.0	1000.000	356.0	H	160.0	5
10893.233333	53.86	84.38	30.52	1000.0	1000.000	365.0	V	150.0	13
14594.466667	59.28	84.38	25.10	1000.0	1000.000	205.0	H	292.0	16
17790.500000	62.62	84.38	21.76	1000.0	1000.000	335.0	H	234.0	23

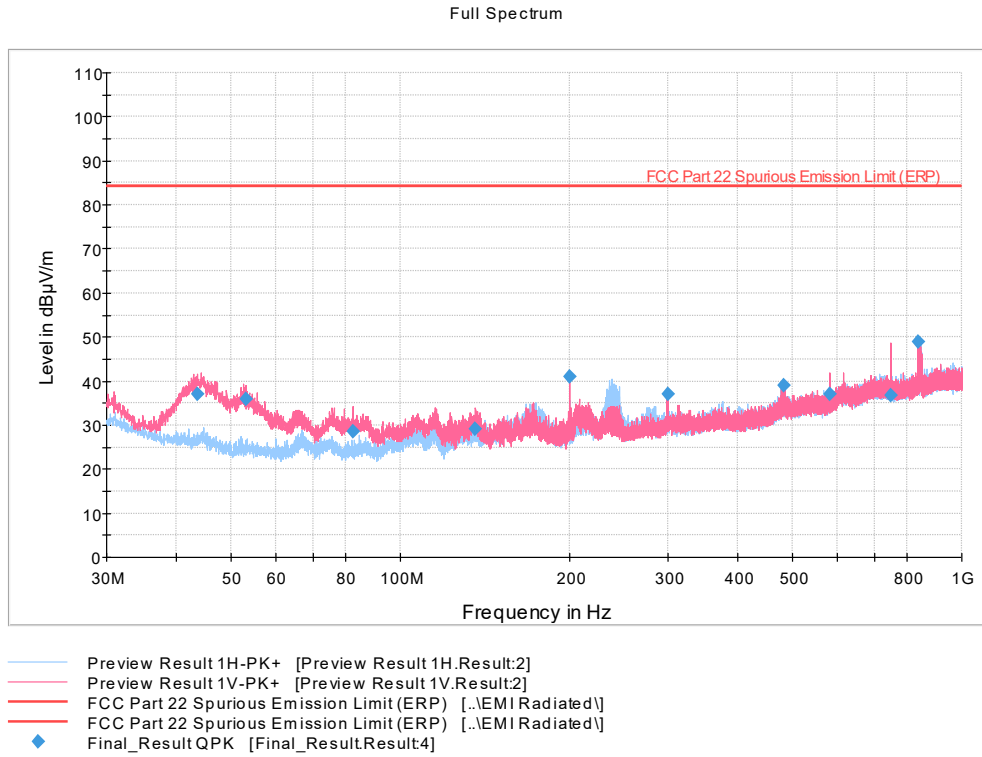
Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	39.29	84.38	45.09	1000.0	1000.000	145.0	V	220.0	-9
1351.533333	42.84	84.38	41.54	1000.0	1000.000	142.0	V	216.0	-7
2580.633333	40.57	84.38	43.81	1000.0	1000.000	125.0	V	209.0	-2
2999.566667	28.58	84.38	55.80	1000.0	1000.000	358.0	H	21.0	-1
6825.533333	36.39	84.38	47.99	1000.0	1000.000	356.0	H	160.0	5
10893.233333	40.66	84.38	43.72	1000.0	1000.000	365.0	V	150.0	13
14594.466667	46.78	84.38	37.60	1000.0	1000.000	205.0	H	292.0	16
17790.500000	49.21	84.38	35.17	1000.0	1000.000	335.0	H	234.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.11 Test Results Below 1GHz (WCDMA Band 5 Uplink Worst Case Configuration) - 15MHz Bandwidth High Channel



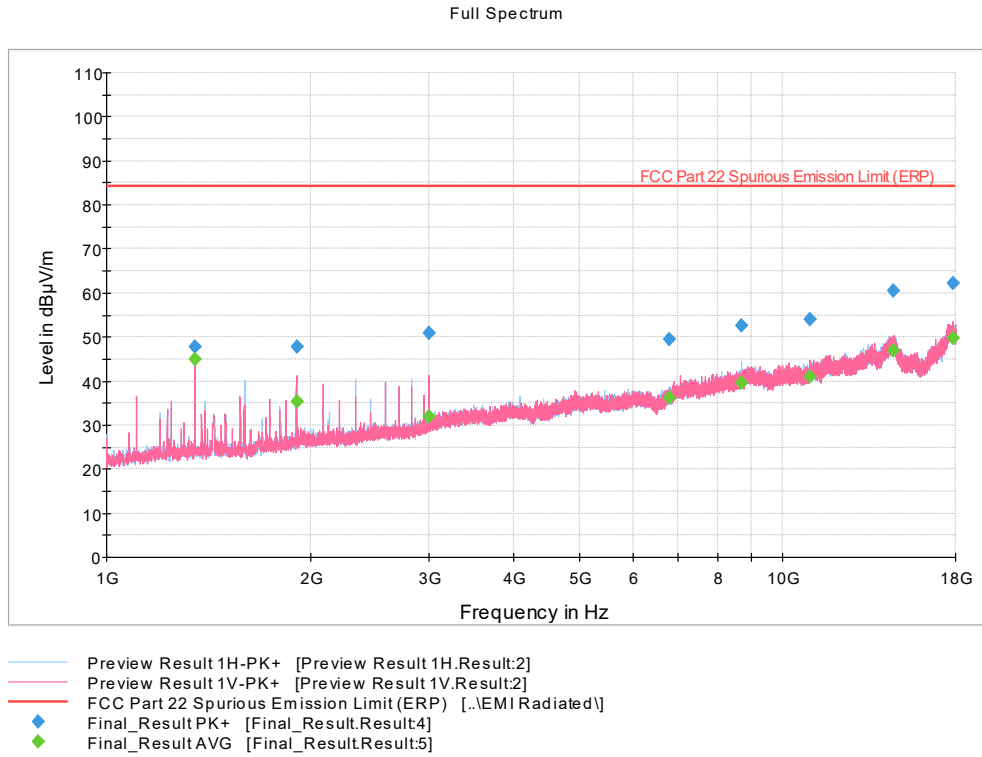
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.634333	37.14	84.38	47.24	1000.0	120.000	107.0	V	181.0	16
53.105667	35.91	84.38	48.47	1000.0	120.000	125.0	V	320.0	14
82.580000	28.64	84.38	55.74	1000.0	120.000	109.0	V	211.0	13
136.207333	29.24	84.38	55.14	1000.0	120.000	125.0	V	187.0	15
200.016333	40.90	84.38	43.48	1000.0	120.000	100.0	V	175.0	17
299.802333	36.96	84.38	47.42	1000.0	120.000	107.0	V	147.0	21
481.793667	39.15	84.38	45.23	1000.0	120.000	174.0	H	304.0	25
581.064667	37.08	84.38	47.30	1000.0	120.000	125.0	V	237.0	26
747.864000	36.67	84.38	47.71	1000.0	120.000	119.0	V	170.0	28
836.754000	48.95	84.38	35.43	1000.0	120.000	100.0	H	270.0	29



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.12 Test Results Above 1GHz (WCDMA Band 5 Uplink Worst Case Configuration) - 15MHz Bandwidth High Channel



Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1351.533333	47.91	84.38	36.47	1000.0	1000.000	355.0	H	91.0	-7
1909.533333	47.65	84.38	36.73	1000.0	1000.000	239.0	V	357.0	-4
2999.966667	51.02	84.38	33.36	1000.0	1000.000	125.0	V	29.0	-1
6802.666667	49.50	84.38	34.88	1000.0	1000.000	175.0	H	24.0	6
8684.900000	52.54	84.38	31.84	1000.0	1000.000	311.0	H	52.0	12
10974.133333	54.09	84.38	30.29	1000.0	1000.000	330.0	V	37.0	14
14548.400000	60.49	84.38	23.89	1000.0	1000.000	163.0	H	190.0	15
17829.900000	62.31	84.38	22.07	1000.0	1000.000	208.0	V	266.0	23

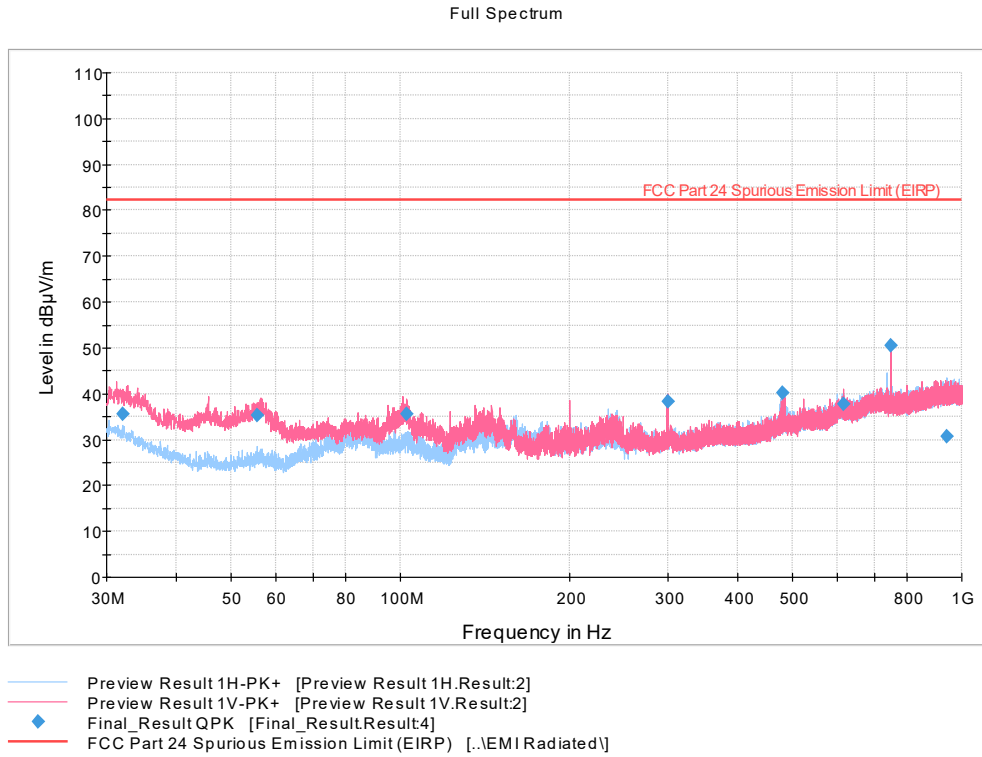
Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1351.533333	45.08	84.38	39.30	1000.0	1000.000	355.0	H	91.0	-7
1909.533333	35.38	84.38	49.00	1000.0	1000.000	239.0	V	357.0	-4
2999.966667	32.05	84.38	52.33	1000.0	1000.000	125.0	V	29.0	-1
6802.666667	36.31	84.38	48.07	1000.0	1000.000	175.0	H	24.0	6
8684.900000	39.69	84.38	44.69	1000.0	1000.000	311.0	H	52.0	12
10974.133333	41.10	84.38	43.28	1000.0	1000.000	330.0	V	37.0	14
14548.400000	46.83	84.38	37.55	1000.0	1000.000	163.0	H	190.0	15
17829.900000	49.69	84.38	34.69	1000.0	1000.000	208.0	V	266.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.13 Test Results Below 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 10MHz Bandwidth Lo Channel



Quasi Peak Data

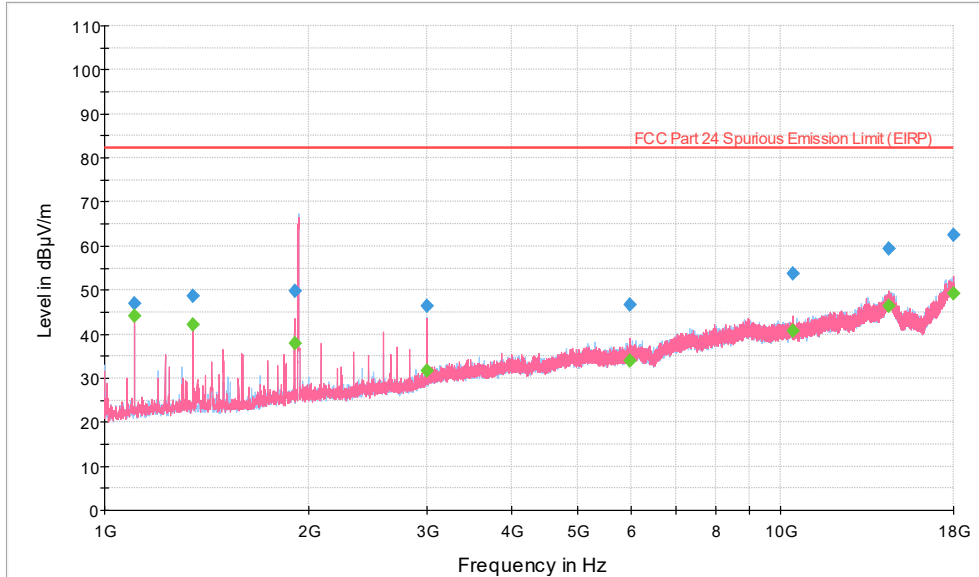
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.028667	35.55	82.23	46.68	1000.0	120.000	125.0	V	11.0	21
55.631667	35.31	82.23	46.92	1000.0	120.000	100.0	V	-15.0	14
102.655000	35.45	82.23	46.78	1000.0	120.000	120.0	V	111.0	16
299.829333	38.41	82.23	43.82	1000.0	120.000	107.0	V	175.0	21
480.015333	40.12	82.23	42.11	1000.0	120.000	174.0	H	244.0	25
614.385000	37.84	82.23	44.39	1000.0	120.000	100.0	V	341.0	27
747.024000	50.51	82.23	31.72	1000.0	120.000	114.0	V	201.0	28
941.721000	30.72	82.23	51.51	1000.0	120.000	285.0	H	102.0	31



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.14 Test Results Above 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 10MHz Bandwidth Low Channel

Full Spectrum



— Preview Result 1H-PK+ [Preview Result 1H.Result:2]
— Preview Result 1V-PK+ [Preview Result 1V.Result:2]
— FCC Part 24 Spurious Emission Limit (EIRP) [.\EMI Radiated]
◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	47.03	82.23	35.20	1000.0	1000.000	255.0	V	199.0	-9
1351.533333	48.68	82.23	33.55	1000.0	1000.000	227.0	V	197.0	-7
1909.533333	49.73	82.23	32.50	1000.0	1000.000	175.0	V	347.0	-4
2999.566667	46.51	82.23	35.72	1000.0	1000.000	289.0	H	33.0	-1
5988.233333	46.59	82.23	35.64	1000.0	1000.000	332.0	V	98.0	4
10436.600000	53.67	82.23	28.56	1000.0	1000.000	145.0	V	133.0	12
14426.133333	59.42	82.23	22.81	1000.0	1000.000	125.0	V	19.0	16
17979.200000	62.58	82.23	19.65	1000.0	1000.000	222.0	V	256.0	23

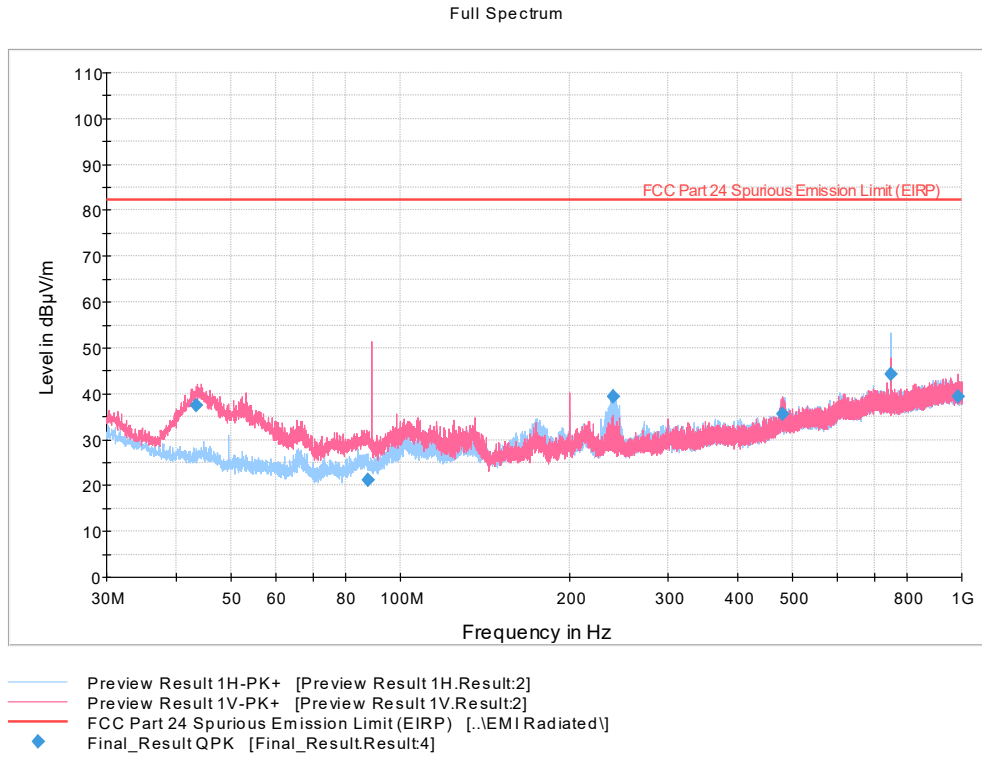
Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	44.13	82.23	38.10	1000.0	1000.000	255.0	V	199.0	-9
1351.533333	42.22	82.23	40.01	1000.0	1000.000	227.0	V	197.0	-7
1909.533333	37.85	82.23	44.38	1000.0	1000.000	175.0	V	347.0	-4
2999.566667	31.66	82.23	50.57	1000.0	1000.000	289.0	H	33.0	-1
5988.233333	34.01	82.23	48.22	1000.0	1000.000	332.0	V	98.0	4
10436.600000	40.60	82.23	41.63	1000.0	1000.000	145.0	V	133.0	12
14426.133333	46.50	82.23	35.73	1000.0	1000.000	125.0	V	19.0	16
17979.200000	49.28	82.23	32.95	1000.0	1000.000	222.0	V	256.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.15 Test Results Below 1GHz (LTE Band 25 Uplink Worst Case Configuration) - 20MHz Bandwidth Middle Channel



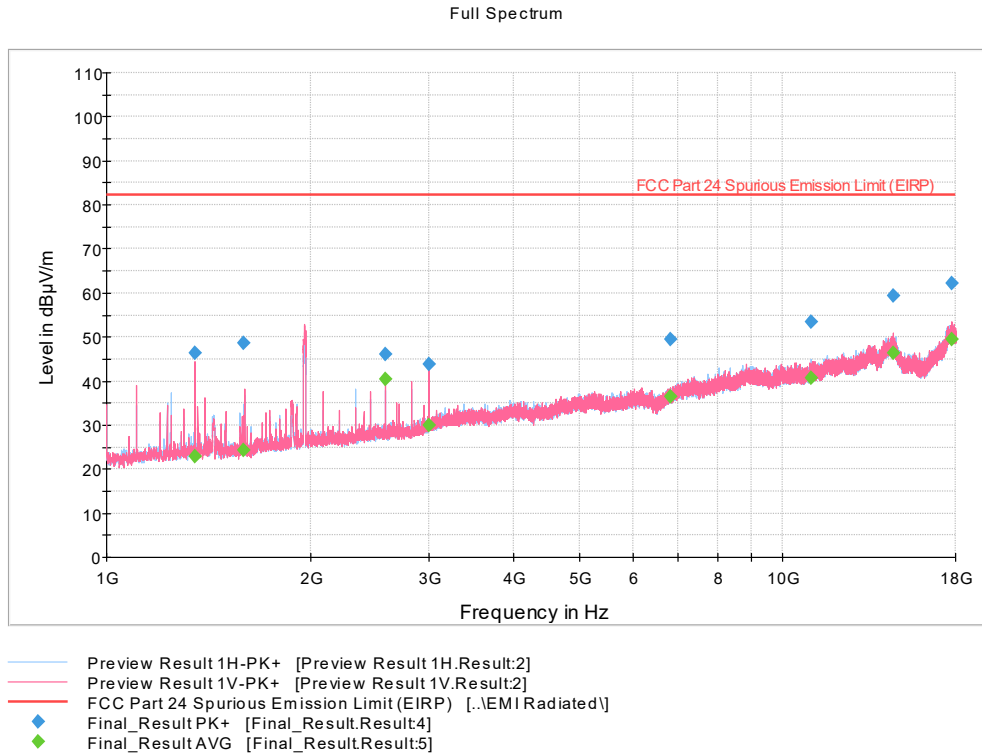
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.346667	37.48	82.23	44.75	1000.0	120.000	106.0	V	267.0	16
87.536000	21.17	82.23	61.06	1000.0	120.000	285.0	V	285.0	14
239.645000	39.28	82.23	42.95	1000.0	120.000	117.0	H	314.0	19
479.938667	35.62	82.23	46.61	1000.0	120.000	100.0	V	355.0	25
746.944000	44.15	82.23	38.08	1000.0	120.000	125.0	H	42.0	28
983.057333	39.46	82.23	42.77	1000.0	120.000	155.0	V	-1.0	30



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.16 Test Results Above 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 20MHz Bandwidth Middle Channel



Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1349.133333	46.38	82.23	35.85	1000.0	1000.000	227.0	V	80.0	-7
1595.733333	48.60	82.23	33.63	1000.0	1000.000	175.0	V	10.0	-7
2580.633333	46.13	82.23	36.10	1000.0	1000.000	144.0	V	60.0	-2
2996.366667	43.93	82.23	38.30	1000.0	1000.000	237.0	V	330.0	-1
6811.733333	49.60	82.23	32.63	1000.0	1000.000	143.0	V	68.0	5
10991.133333	53.50	82.23	28.73	1000.0	1000.000	175.0	H	2.0	14
14584.266667	59.45	82.23	22.78	1000.0	1000.000	224.0	V	215.0	16
17768.500000	62.24	82.23	19.99	1000.0	1000.000	365.0	V	156.0	22

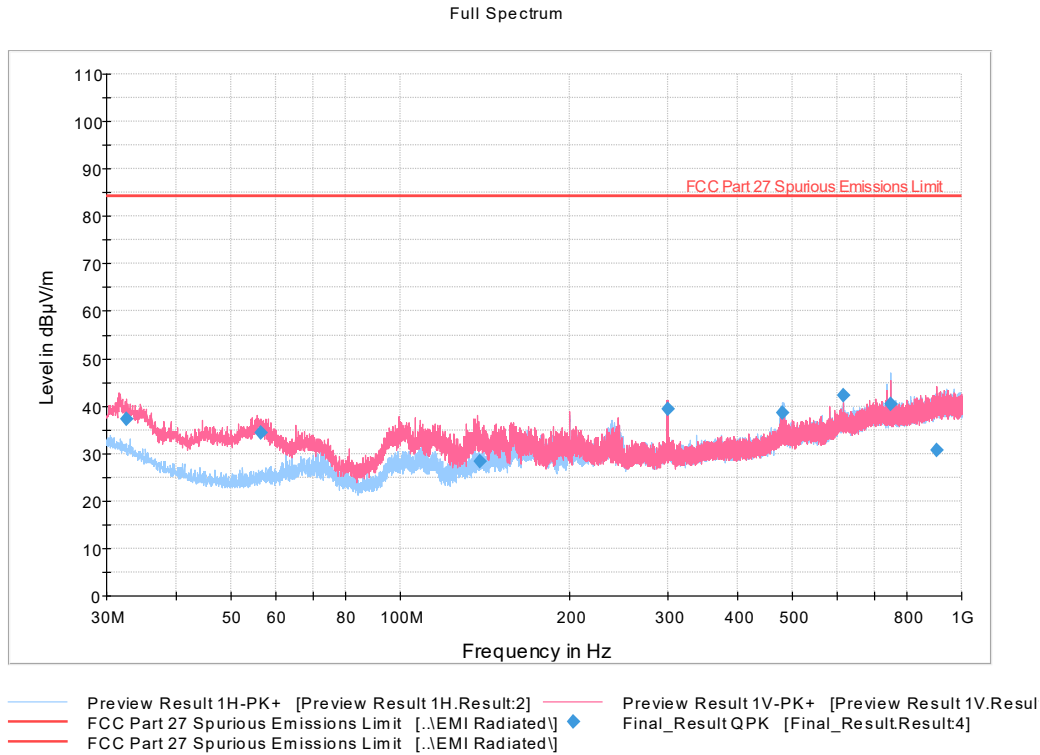
Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1349.133333	22.94	82.23	59.29	1000.0	1000.000	227.0	V	80.0	-7
1595.733333	24.18	82.23	58.05	1000.0	1000.000	175.0	V	10.0	-7
2580.633333	40.45	82.23	41.78	1000.0	1000.000	144.0	V	60.0	-2
2996.366667	30.06	82.23	52.17	1000.0	1000.000	237.0	V	330.0	-1
6811.733333	36.46	82.23	45.77	1000.0	1000.000	143.0	V	68.0	5
10991.133333	40.61	82.23	41.62	1000.0	1000.000	175.0	H	2.0	14
14584.266667	46.35	82.23	35.88	1000.0	1000.000	224.0	V	215.0	16
17768.500000	49.46	82.23	32.77	1000.0	1000.000	365.0	V	156.0	22



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.17 Test Results Below 1GHz (LTE Band 4 Downlink Worst Case Configuration) - 10MHz Bandwidth Low Channel



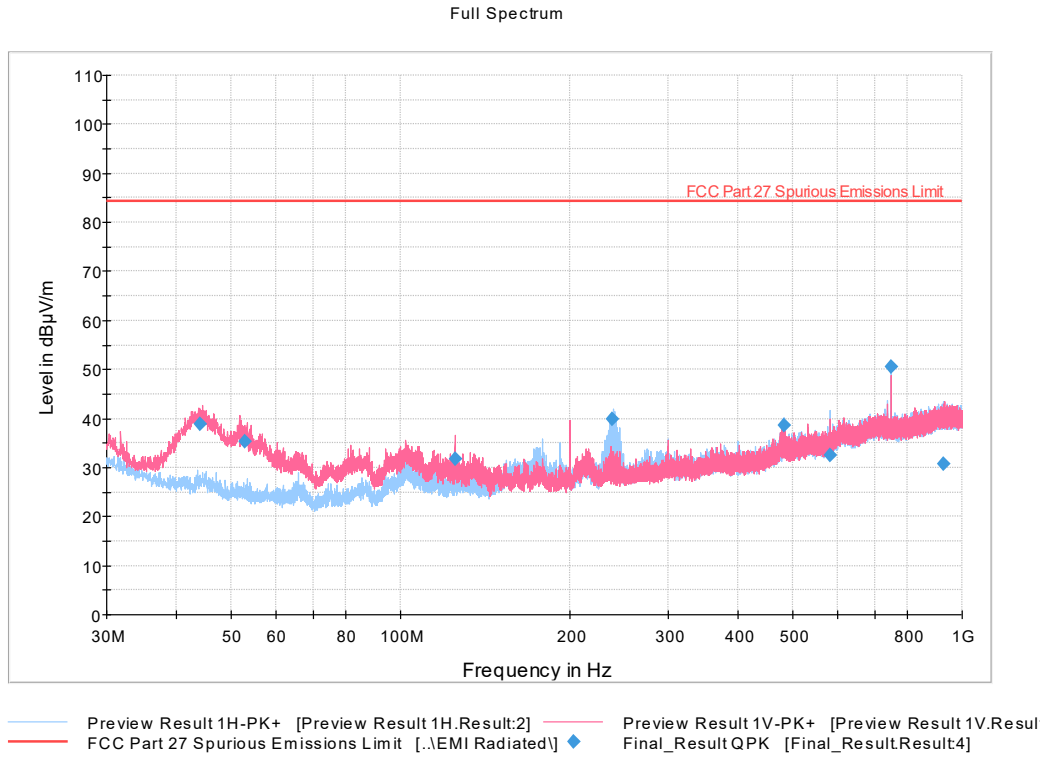
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
32.536667	37.30	84.40	47.10	1000.0	120.000	125.0	V	267.0	21
56.400333	34.39	84.40	50.01	1000.0	120.000	100.0	V	318.0	14
138.666667	28.24	84.40	56.16	1000.0	120.000	107.0	V	207.0	15
299.814000	39.49	84.40	44.91	1000.0	120.000	100.0	V	158.0	21
479.974333	38.52	84.40	45.88	1000.0	120.000	171.0	H	266.0	25
614.385000	42.38	84.40	42.02	1000.0	120.000	100.0	H	155.0	27
746.984000	40.35	84.40	44.05	1000.0	120.000	125.0	H	197.0	28
903.667000	30.60	84.40	53.80	1000.0	120.000	109.0	V	20.0	31



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.18 Test Results Below 1GHz (LTE Band 4 Uplink Worst Case Configuration) - 10MHz Bandwidth Middle Channel



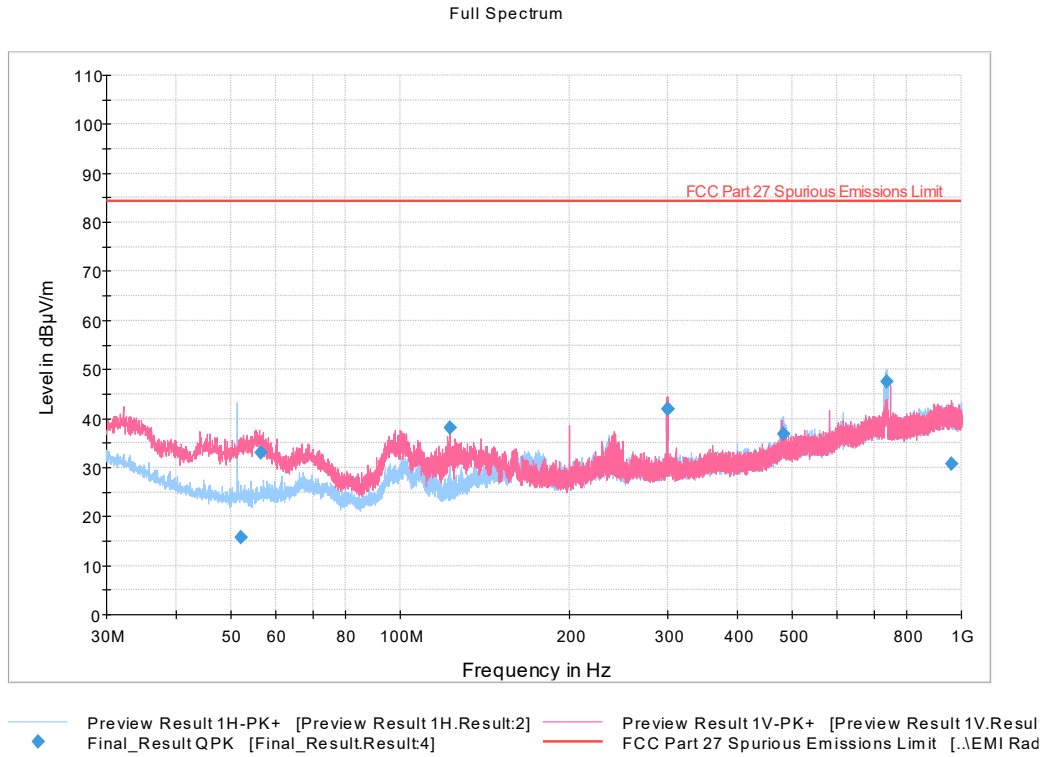
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
44.093000	38.82	84.40	45.58	1000.0	120.000	107.0	V	339.0	16
52.785333	35.42	84.40	48.98	1000.0	120.000	125.0	V	272.0	14
125.035333	31.86	84.40	52.54	1000.0	120.000	125.0	V	180.0	14
238.177000	39.81	84.40	44.59	1000.0	120.000	100.0	H	322.0	19
481.793667	38.52	84.40	45.88	1000.0	120.000	172.0	H	287.0	25
580.944667	32.50	84.40	51.90	1000.0	120.000	186.0	H	37.0	26
747.024000	50.66	84.40	33.74	1000.0	120.000	113.0	H	20.0	28
925.363333	30.85	84.40	53.55	1000.0	120.000	355.0	H	35.0	31



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.19 Test Results Below 1GHz (LTE Band 12 Downlink Worst Case Configuration) - 5MHz Bandwidth High Channel



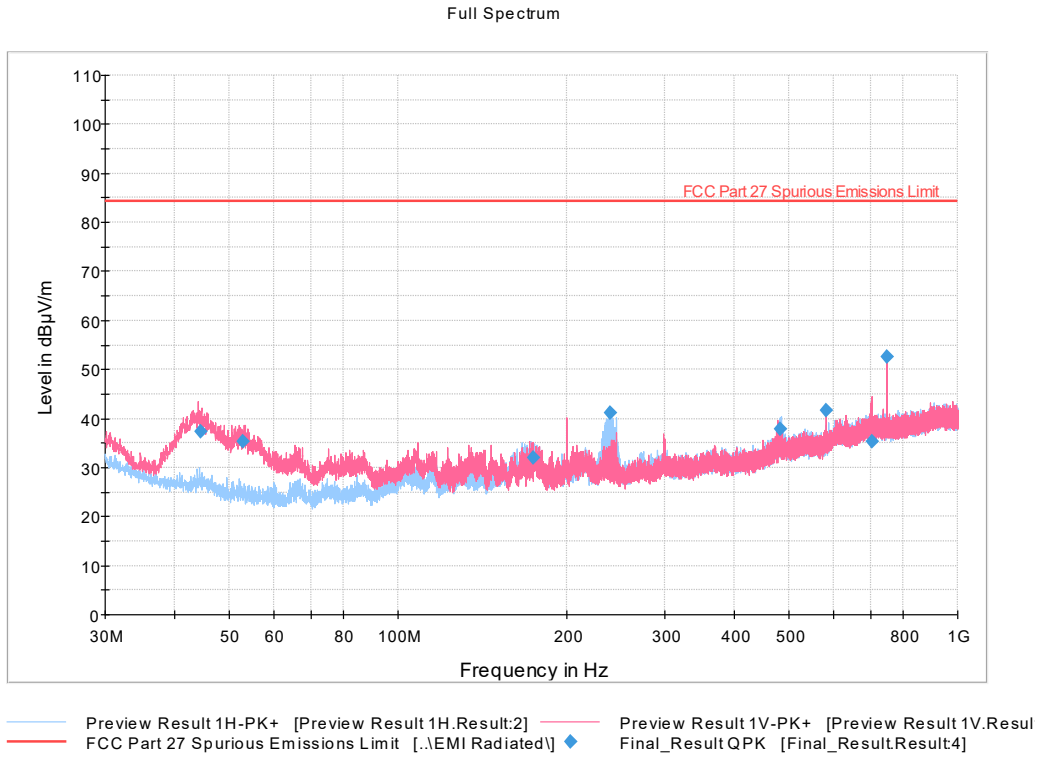
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
52.178333	15.76	84.40	68.64	1000.0	120.000	400.0	H	330.0	14
56.382333	32.95	84.40	51.45	1000.0	120.000	107.0	V	6.0	14
122.861333	38.20	84.40	46.20	1000.0	120.000	109.0	V	142.0	14
299.797000	41.90	84.40	42.50	1000.0	120.000	100.0	V	166.0	21
299.802333	41.91	84.40	42.49	1000.0	120.000	100.0	V	164.0	21
481.854000	36.79	84.40	47.61	1000.0	120.000	162.0	H	260.0	25
735.017333	47.46	84.40	36.94	1000.0	120.000	106.0	H	310.0	29
958.325667	30.82	84.40	53.58	1000.0	120.000	346.0	V	1.0	31



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Below 1GHz (LTE Band 12 Uplink Worst Case Configuration) - 5MHz Bandwidth Middle Channel



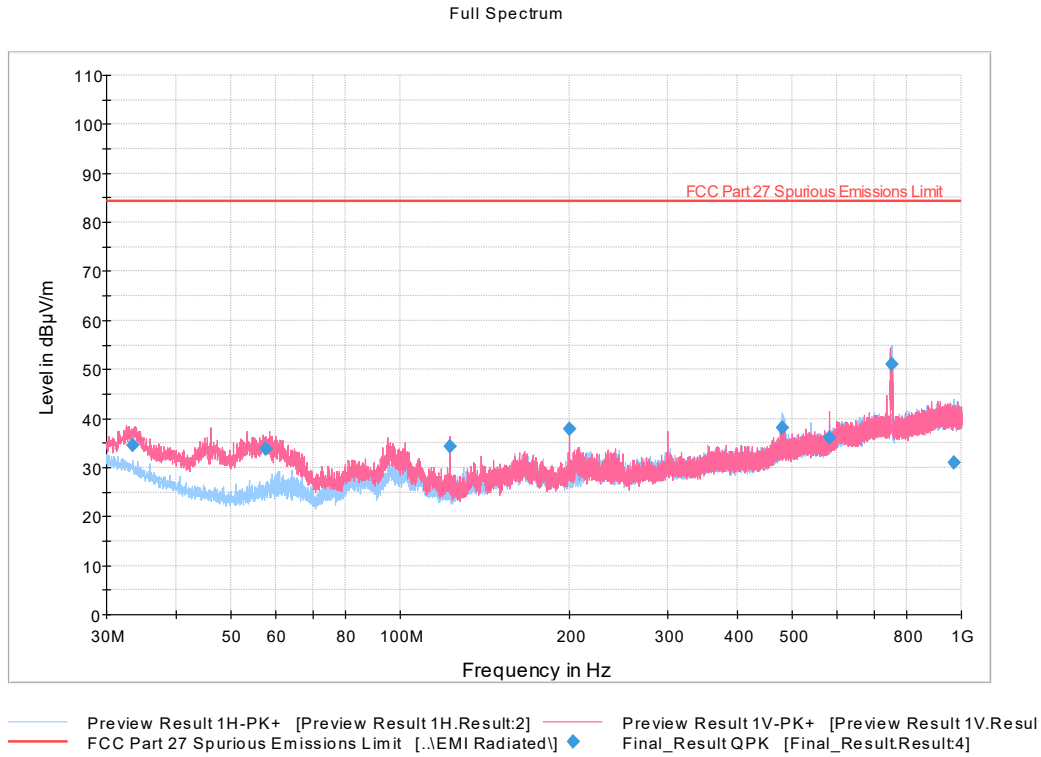
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
44.368000	37.28	84.38	47.10	1000.0	120.000	119.0	V	271.0	16
52.774333	35.34	84.38	49.04	1000.0	120.000	125.0	V	286.0	14
174.252000	32.01	84.38	52.37	1000.0	120.000	186.0	H	135.0	17
238.905667	41.04	84.38	43.34	1000.0	120.000	112.0	H	317.0	19
482.168667	37.96	84.38	46.42	1000.0	120.000	180.0	H	308.0	25
581.024667	41.64	84.38	42.74	1000.0	120.000	108.0	V	181.0	26
702.837333	35.29	84.38	49.09	1000.0	120.000	393.0	V	136.0	29
747.024000	52.49	84.38	31.89	1000.0	120.000	108.0	H	20.0	28



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Below 1GHz (LTE Band 13 Downlink Worst Case Configuration) - 5MHz Bandwidth Mid Channel



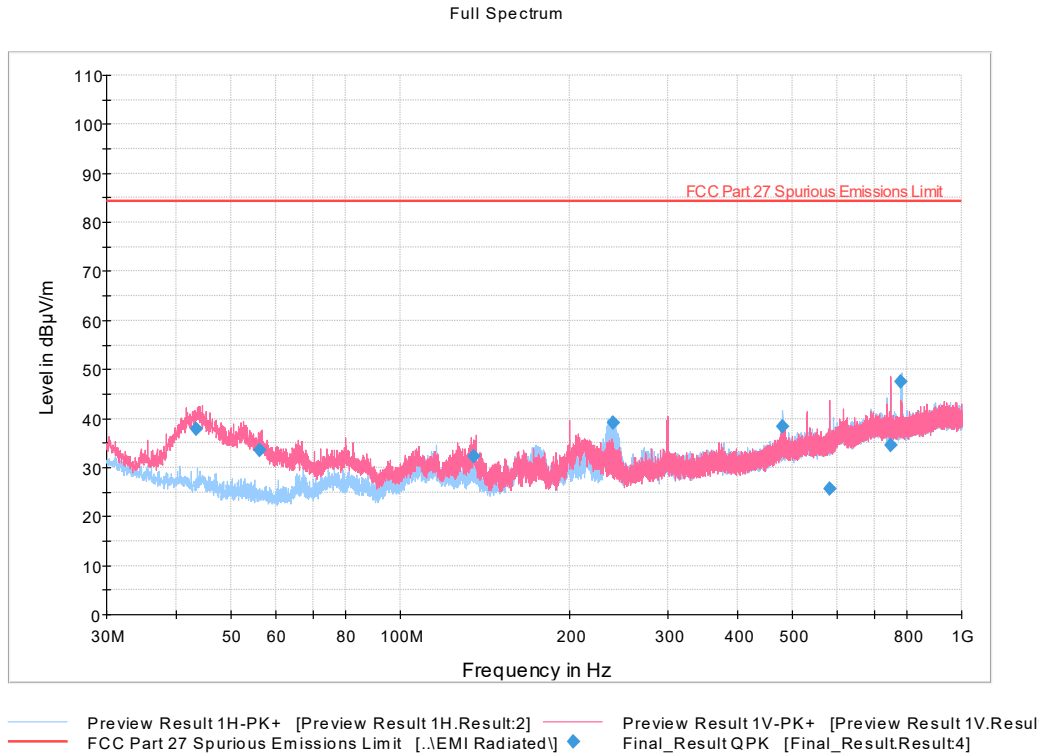
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
33.449667	34.60	84.40	49.80	1000.0	120.000	107.0	V	291.0	20
57.798000	33.69	84.40	50.71	1000.0	120.000	111.0	V	352.0	14
122.901333	34.26	84.40	50.14	1000.0	120.000	100.0	V	196.0	14
200.008667	37.93	84.40	46.47	1000.0	120.000	107.0	V	48.0	17
480.000333	38.17	84.40	46.23	1000.0	120.000	165.0	H	259.0	25
580.984667	36.13	84.40	48.27	1000.0	120.000	116.0	V	-10.0	26
750.564333	51.02	84.40	33.38	1000.0	120.000	107.0	H	90.0	28
967.581333	30.97	84.40	53.43	1000.0	120.000	253.0	H	257.0	31



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Below 1GHz (LTE Band 13 Uplink Worst Case Configuration) - 5MHz Bandwidth Middle Channel



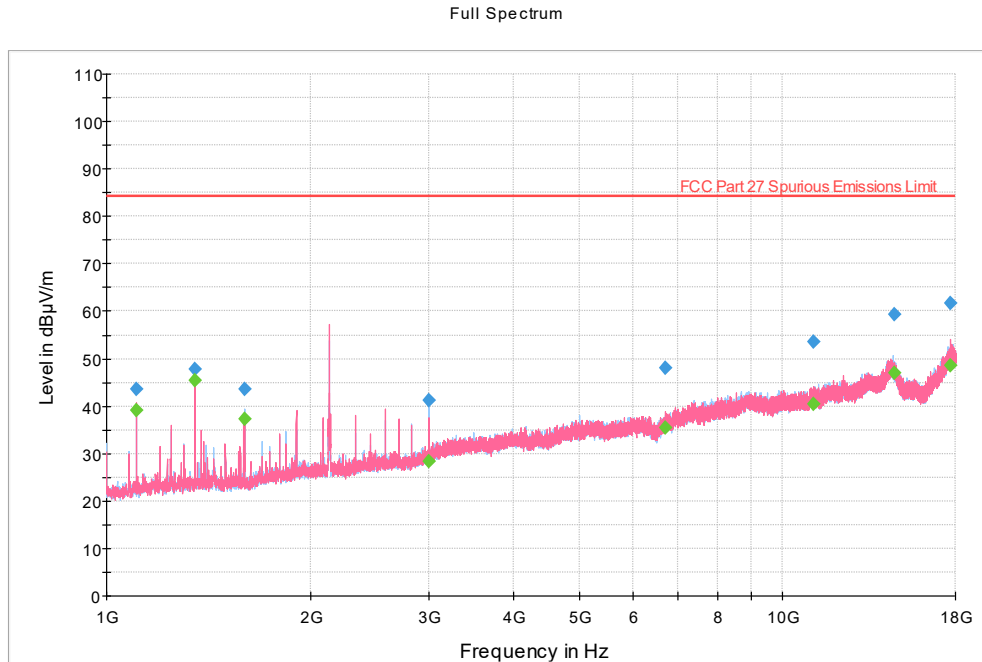
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
43.380667	37.85	84.40	46.55	1000.0	120.000	111.0	V	1.0	16
56.309000	33.43	84.40	50.97	1000.0	120.000	107.0	V	303.0	14
135.170667	32.30	84.40	52.10	1000.0	120.000	111.0	V	201.0	14
239.270000	39.19	84.40	45.21	1000.0	120.000	100.0	H	337.0	19
480.014333	38.37	84.40	46.03	1000.0	120.000	190.0	H	298.0	25
581.584667	25.62	84.40	58.78	1000.0	120.000	109.0	V	236.0	26
746.624000	34.60	84.40	49.80	1000.0	120.000	125.0	V	59.0	28
780.612333	47.41	84.40	36.99	1000.0	120.000	100.0	H	280.0	29



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Above 1GHz (LTE Band 4 Downlink Worst Case Configuration) - 10MHz Bandwidth Low Channel



— Preview Result 1H-PK+ [Preview Result 1H.Result:2] — Preview Result 1V-PK+ [Preview Result 1V.Result
— FCC Part 27 Spurious Emissions Limit [.\EMI Radiated\] ◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	43.55	84.40	40.85	1000.0	1000.000	227.0	H	282.0	-9
1351.533333	47.76	84.40	36.64	1000.0	1000.000	141.0	V	210.0	-7
1600.133333	43.70	84.40	40.70	1000.0	1000.000	255.0	H	28.0	-7
2996.366667	41.13	84.40	43.27	1000.0	1000.000	125.0	H	350.0	-1
6692.400000	48.11	84.40	36.29	1000.0	1000.000	175.0	V	247.0	5
11105.266666	53.62	84.40	30.78	1000.0	1000.000	238.0	V	353.0	14
14595.766666	59.45	84.40	24.95	1000.0	1000.000	310.0	H	124.0	16
17719.400000	61.82	84.40	22.58	1000.0	1000.000	350.0	V	50.0	22

Average Data

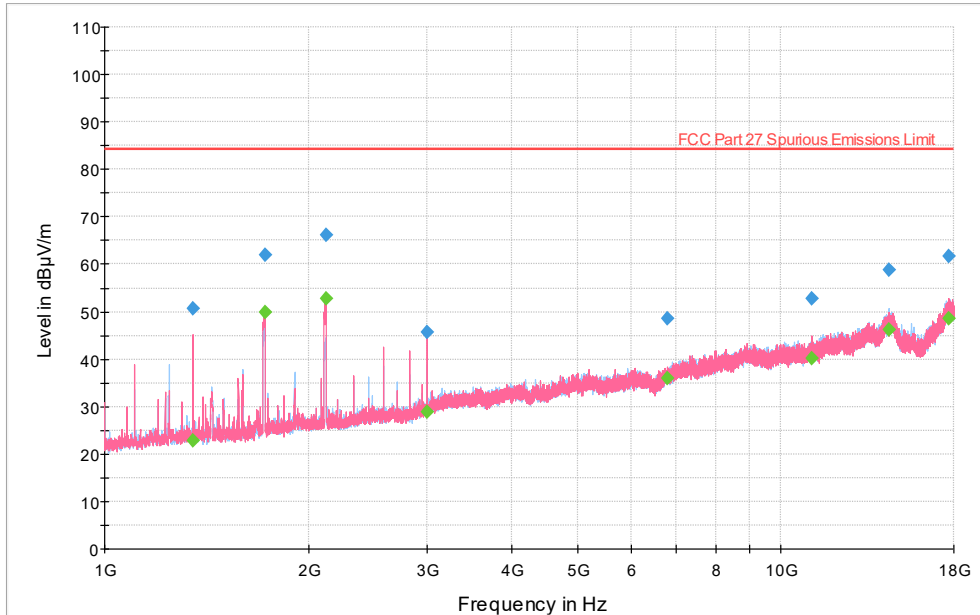
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	39.09	84.40	45.31	1000.0	1000.000	227.0	H	282.0	-9
1351.533333	45.36	84.40	39.04	1000.0	1000.000	141.0	V	210.0	-7
1600.133333	37.37	84.40	47.03	1000.0	1000.000	255.0	H	28.0	-7
2996.366667	28.32	84.40	56.08	1000.0	1000.000	125.0	H	350.0	-1
6692.400000	35.39	84.40	49.01	1000.0	1000.000	175.0	V	247.0	5
11105.266666	40.47	84.40	43.93	1000.0	1000.000	238.0	V	353.0	14
14595.766666	46.89	84.40	37.51	1000.0	1000.000	310.0	H	124.0	16
17719.400000	48.48	84.40	35.92	1000.0	1000.000	350.0	V	50.0	22



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Above 1GHz (LTE Band 4 Uplink Worst Case Configuration) - 10MHz Bandwidth Middle Channel

Full Spectrum



— Preview Result 1H-PK+ [Preview Result 1H.Result:2]
 — Preview Result 1V-PK+ [Preview Result 1V.Result:4]
— FCC Part 27 Spurious Emissions Limit [.\EMI Radiated\]
 ◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1353.933333	50.71	84.40	33.69	1000.0	1000.000	175.0	V	32.0	-7
1726.533333	62.05	84.40	22.35	1000.0	1000.000	332.0	V	10.0	-5
2126.866667	66.07	84.40	18.33	1000.0	1000.000	332.0	V	96.0	-3
2999.566667	45.68	84.40	38.73	1000.0	1000.000	161.0	V	35.0	-1
6786.100000	48.70	84.40	35.70	1000.0	1000.000	306.0	V	185.0	5
11092.800000	52.79	84.40	31.61	1000.0	1000.000	309.0	V	313.0	14
14413.133333	58.71	84.40	25.69	1000.0	1000.000	359.0	H	256.0	15
17713.100000	61.71	84.40	22.69	1000.0	1000.000	365.0	V	244.0	22

Average Data

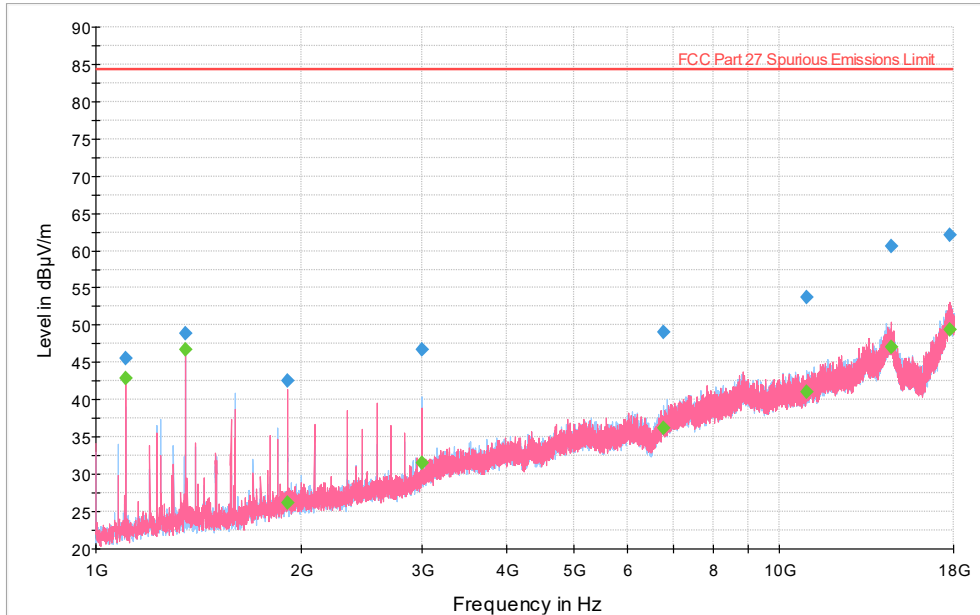
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1353.933333	22.90	84.40	61.50	1000.0	1000.000	175.0	V	32.0	-7
1726.533333	49.86	84.40	34.54	1000.0	1000.000	332.0	V	10.0	-5
2126.866667	52.74	84.40	31.66	1000.0	1000.000	332.0	V	96.0	-3
2999.566667	28.79	84.40	55.61	1000.0	1000.000	161.0	V	35.0	-1
6786.100000	36.05	84.40	48.35	1000.0	1000.000	306.0	V	185.0	5
11092.800000	40.16	84.40	44.24	1000.0	1000.000	309.0	V	313.0	14
14413.133333	46.33	84.40	38.07	1000.0	1000.000	359.0	H	256.0	15
17713.100000	48.56	84.40	35.84	1000.0	1000.000	365.0	V	244.0	22



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Above 1GHz (LTE Band 12 Downlink Worst Case Configuration) - 5MHz Bandwidth High Channel

Full Spectrum



— Preview Result 1H-PK+ [Preview Result 1H.Result:2]
 — Preview Result 1V-PK+ [Preview Result 1V.Result
 — FCC Part 27 Spurious Emissions Limit [.\EMI Radiated\]
 ◆ Final_Result PK+ [Final_Result.Result:4]
 ◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	45.51	84.40	38.89	1000.0	1000.000	245.0	V	200.0	-9
1351.533333	48.85	84.40	35.55	1000.0	1000.000	238.0	V	203.0	-7
1909.133333	42.52	84.40	41.88	1000.0	1000.000	208.0	V	0.0	-4
2999.966667	46.80	84.40	37.60	1000.0	1000.000	231.0	H	80.0	-1
6780.166667	49.07	84.40	35.33	1000.0	1000.000	356.0	H	298.0	5
10962.633333	53.70	84.40	30.70	1000.0	1000.000	301.0	H	293.0	14
14575.833333	60.60	84.40	23.80	1000.0	1000.000	221.0	V	332.0	16
17796.933333	62.13	84.40	22.27	1000.0	1000.000	142.0	V	141.0	23

Average Data

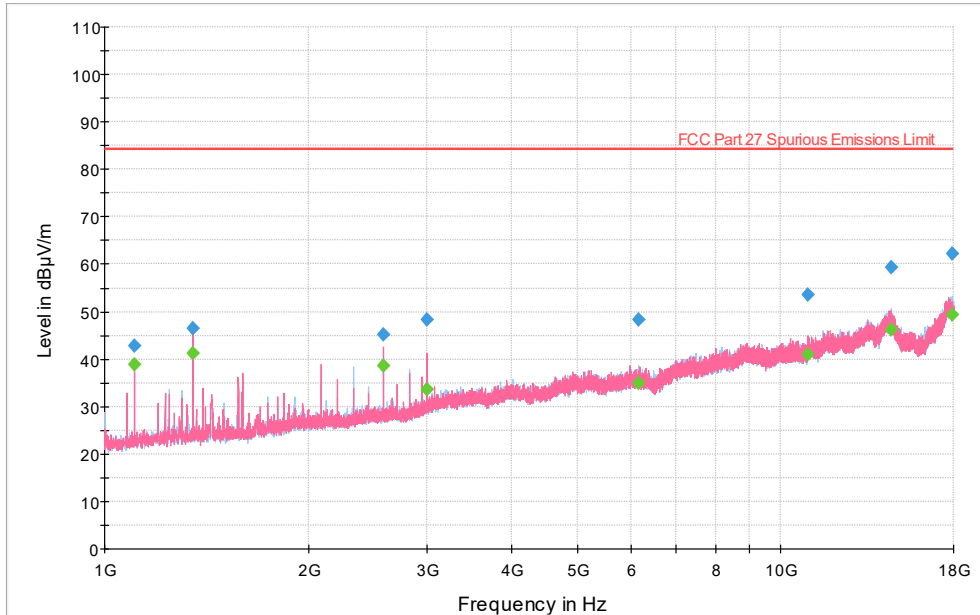
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	42.92	84.40	41.48	1000.0	1000.000	245.0	V	200.0	-9
1351.533333	46.75	84.40	37.65	1000.0	1000.000	238.0	V	203.0	-7
1909.133333	26.21	84.40	58.19	1000.0	1000.000	208.0	V	0.0	-4
2999.966667	31.59	84.40	52.81	1000.0	1000.000	231.0	H	80.0	-1
6780.166667	36.12	84.40	48.28	1000.0	1000.000	356.0	H	298.0	5
10962.633333	41.05	84.40	43.35	1000.0	1000.000	301.0	H	293.0	14
14575.833333	47.10	84.40	37.30	1000.0	1000.000	221.0	V	332.0	16
17796.933333	49.38	84.40	35.02	1000.0	1000.000	142.0	V	141.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Above 1GHz (LTE Band 12 Uplink Worst Case Configuration) - 5MHz Bandwidth Mid Channel

Full Spectrum



◆ Preview Result 1H-PK+ [Preview Result 1H.Result:2]
 — FCC Part 27 Spurious Emissions Limit [.\EMI Radiated\
◆ Final_Result AVG [Final_Result.Result:5]
◆ Final_Result PK+ [Final_Result.Result:4]

Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	42.79	84.40	41.61	1000.0	1000.000	205.0	V	35.0	-9
1351.933333	46.52	84.40	37.88	1000.0	1000.000	146.0	V	73.0	-7
2580.633333	45.22	84.40	39.18	1000.0	1000.000	127.0	V	60.0	-2
2999.966667	48.40	84.40	36.00	1000.0	1000.000	175.0	V	305.0	-1
6155.833333	48.25	84.40	36.15	1000.0	1000.000	175.0	H	52.0	4
10957.20000	53.62	84.40	30.78	1000.0	1000.000	285.0	V	211.0	14
14570.66666	59.33	84.40	25.07	1000.0	1000.000	125.0	H	303.0	16
17950.43333	62.15	84.40	22.25	1000.0	1000.000	125.0	H	15.0	23

Average Data

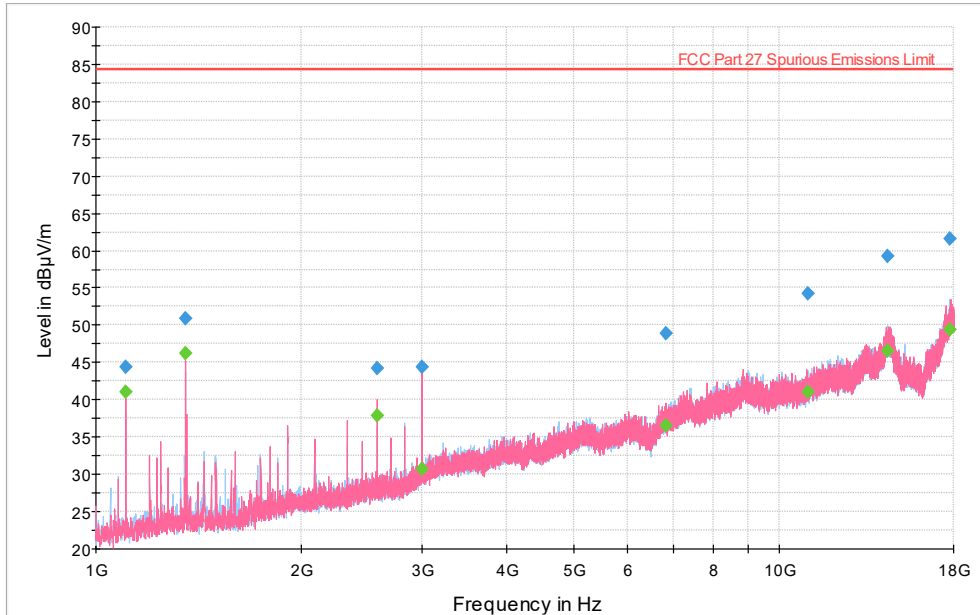
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	38.90	84.40	45.50	1000.0	1000.000	205.0	V	35.0	-9
1351.933333	41.11	84.40	43.29	1000.0	1000.000	146.0	V	73.0	-7
2580.633333	38.53	84.40	45.87	1000.0	1000.000	127.0	V	60.0	-2
2999.966667	33.68	84.40	50.72	1000.0	1000.000	175.0	V	305.0	-1
6155.833333	35.00	84.40	49.40	1000.0	1000.000	175.0	H	52.0	4
10957.20000	40.88	84.40	43.52	1000.0	1000.000	285.0	V	211.0	14
14570.66666	46.12	84.40	38.28	1000.0	1000.000	125.0	H	303.0	16
17950.43333	49.28	84.40	35.12	1000.0	1000.000	125.0	H	15.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Above 1GHz (LTE Band 13 Downlink Worst Case Configuration) - 5MHz Bandwidth Mid Channel

Full Spectrum



— Preview Result 1H-PK+ [Preview Result 1H.Result:2] — Preview Result 1V-PK+ [Preview Result 1V.Result
— FCC Part 27 Spurious Emissions Limit [.\EMI Radiated\] ◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	44.43	84.40	39.97	1000.0	1000.000	222.0	V	209.0	-9
1351.533333	50.95	84.40	33.45	1000.0	1000.000	164.0	V	204.0	-7
2580.633333	44.27	84.40	40.13	1000.0	1000.000	175.0	V	212.0	-2
2999.566667	44.42	84.40	39.98	1000.0	1000.000	320.0	V	27.0	-1
6822.233333	48.88	84.40	35.52	1000.0	1000.000	141.0	V	88.0	5
10996.200000	54.17	84.40	30.23	1000.0	1000.000	175.0	V	136.0	14
14420.066666	59.27	84.40	25.13	1000.0	1000.000	125.0	H	130.0	15
17786.033333	61.68	84.40	22.72	1000.0	1000.000	352.0	H	247.0	23

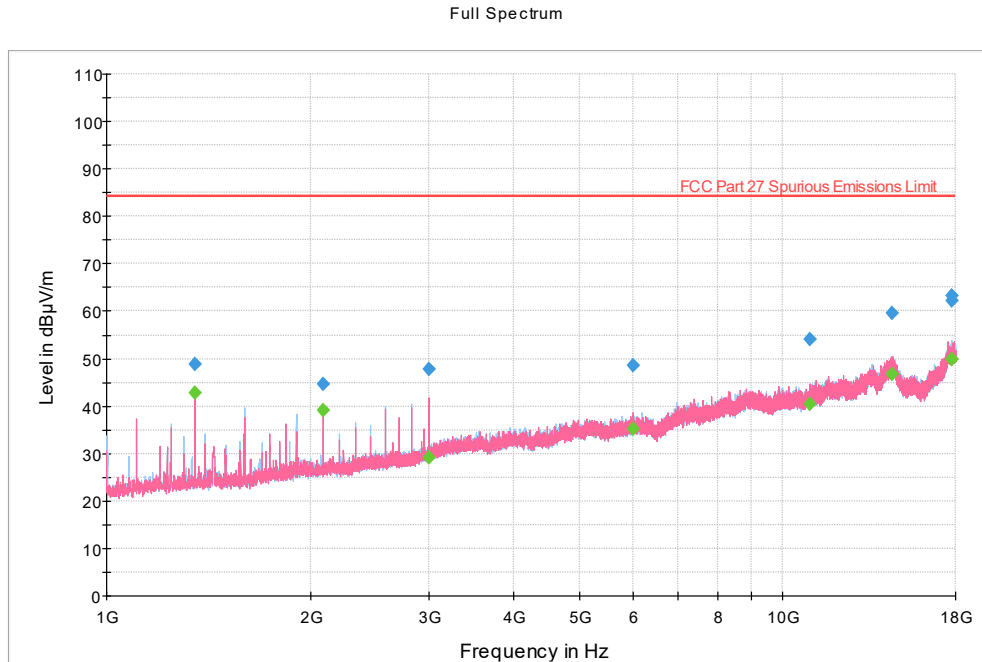
Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1106.000000	41.07	84.40	43.33	1000.0	1000.000	222.0	V	209.0	-9
1351.533333	46.21	84.40	38.19	1000.0	1000.000	164.0	V	204.0	-7
2580.633333	37.90	84.40	46.50	1000.0	1000.000	175.0	V	212.0	-2
2999.566667	30.74	84.40	53.66	1000.0	1000.000	320.0	V	27.0	-1
6822.233333	36.54	84.40	47.86	1000.0	1000.000	141.0	V	88.0	5
10996.200000	41.12	84.40	43.28	1000.0	1000.000	175.0	V	136.0	14
14420.066666	46.52	84.40	37.88	1000.0	1000.000	125.0	H	130.0	15
17786.033333	49.33	84.40	35.07	1000.0	1000.000	352.0	H	247.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.1 Test Results Above 1GHz (LTE Band 13 Uplink Worst Case Configuration) - 10MHz Bandwidth Mid Channel



— Preview Result 1H-PK+ [Preview Result 1H.Result:2]
 — Preview Result 1V-PK+ [Preview Result 1V.Result
 — FCC Part 27 Spurious Emissions Limit [.\EMI Radiated\]
 ◆ Final_Result PK+ [Final_Result.Result:4]
 ◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1351.533333	48.86	84.40	35.54	1000.0	1000.000	175.0	V	86.0	-7
2089.166667	44.73	84.40	39.67	1000.0	1000.000	175.0	V	53.0	-4
2999.966667	47.71	84.40	36.69	1000.0	1000.000	302.0	V	356.0	-1
6004.866667	48.44	84.40	35.96	1000.0	1000.000	365.0	V	158.0	4
10943.16666	54.15	84.40	30.25	1000.0	1000.000	365.0	V	270.0	14
14527.03333	59.49	84.40	24.91	1000.0	1000.000	255.0	H	17.0	16
17807.86666	62.32	84.40	22.08	1000.0	1000.000	365.0	H	62.0	23
17809.86666	63.25	84.40	21.15	1000.0	1000.000	319.0	H	80.0	23

Average Data

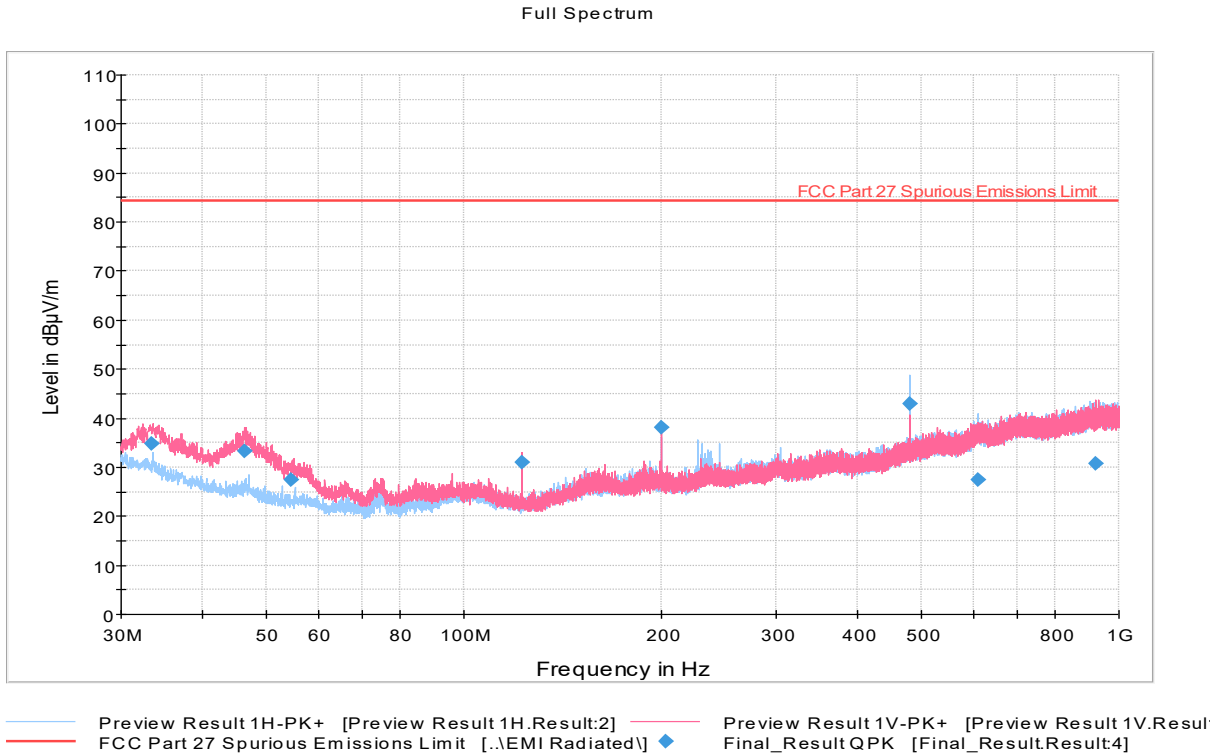
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1351.533333	42.84	84.40	41.56	1000.0	1000.000	175.0	V	86.0	-7
2089.166667	39.13	84.40	45.27	1000.0	1000.000	175.0	V	53.0	-4
2999.966667	29.27	84.40	55.13	1000.0	1000.000	302.0	V	356.0	-1
6004.866667	35.23	84.40	49.17	1000.0	1000.000	365.0	V	158.0	4
10943.16666	40.48	84.40	43.92	1000.0	1000.000	365.0	V	270.0	14
14527.03333	46.83	84.40	37.57	1000.0	1000.000	255.0	H	17.0	16
17807.86666	49.88	84.40	34.52	1000.0	1000.000	365.0	H	62.0	23
17809.86666	49.87	84.40	34.53	1000.0	1000.000	319.0	H	80.0	23



FCC ID: NU: YETQ42-Z1CNU and CU: YETQ41-BXCU
 IC: NU: 9298A-Q42Z1CNU and CU: 9298A-Q41BXCU

2.12.2 Intermodulation Test Results Below 1GHz (2 Bands per port on 4 NU ports Uplink Worst Case Configuration)

WCDMA Band 5 5MHz BW Mid Ch & LTE Band 12 5MHz BW Mid Ch transmit on NU Port 1
 LTE Band 25 10MHz BW Low Ch & LTE Band 4 10MHz BW Mid Ch transmit on NU Port 2
 LTE Modem transmit LTE Band 2 Middle Channel



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.356667	34.71	84.40	49.69	1000.0	120.000	107.0	V	285.0	20
46.191333	33.37	84.40	51.03	1000.0	120.000	111.0	V	178.0	15
54.546000	27.53	84.40	56.87	1000.0	120.000	125.0	V	-20.0	14
122.861333	31.07	84.40	53.33	1000.0	120.000	100.0	V	179.0	14
200.008667	38.19	84.40	46.21	1000.0	120.000	100.0	V	198.0	17
479.983000	42.95	84.40	41.45	1000.0	120.000	205.0	H	296.0	25
609.659333	27.54	84.40	56.86	1000.0	120.000	354.0	H	348.0	27
921.007333	30.82	84.40	53.58	1000.0	120.000	246.0	V	98.0	31