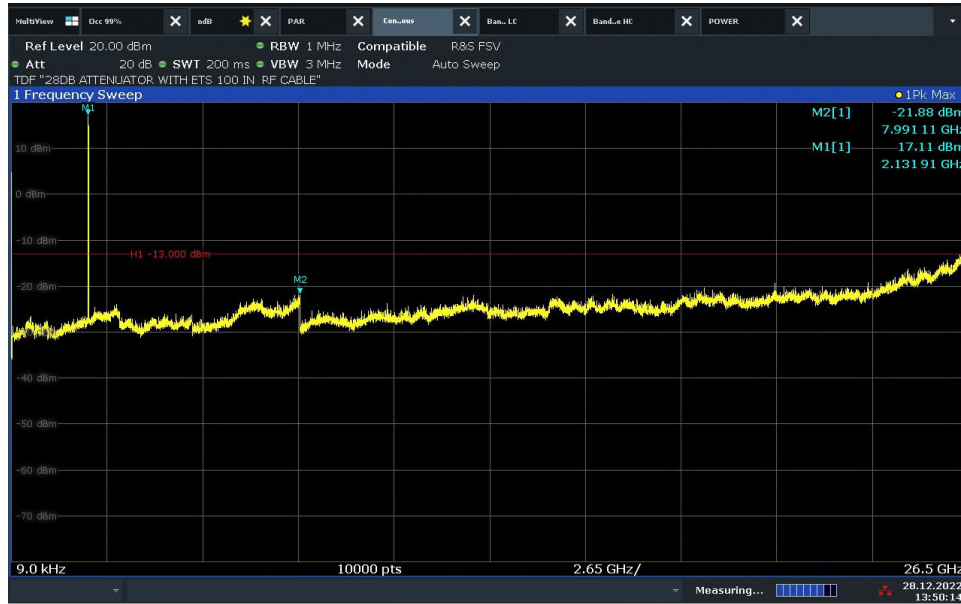




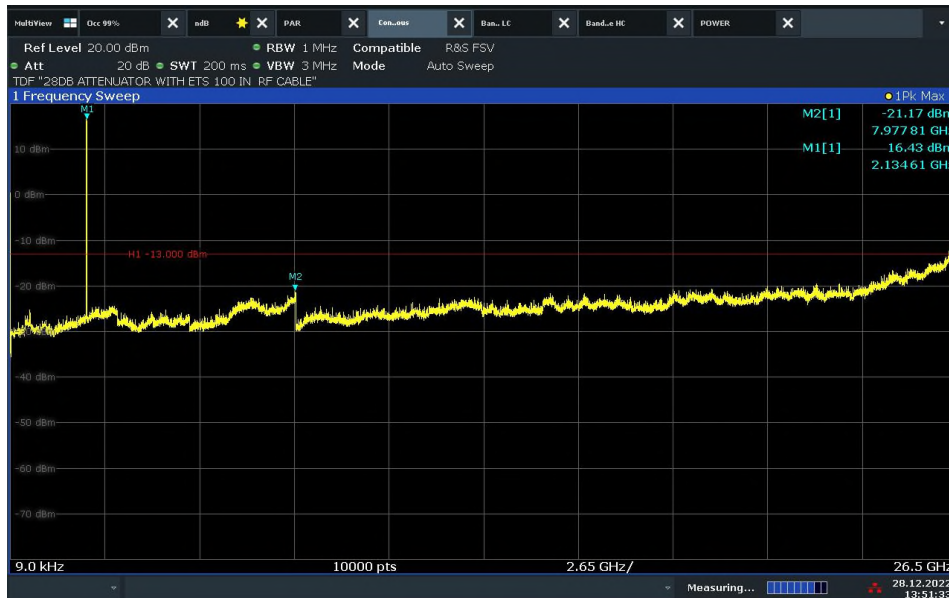
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 4 Downlink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions



13:50:15 28.12.2022

LTE Band 4 Downlink 15MHz Bandwidth Middle Channel Conducted Spurious Emissions



13:51:34 28.12.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 4 Downlink 20MHz Bandwidth Middle Channel Conducted Spurious Emissions



15:14:32 27.12.2022

LTE Band 4 Uplink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions

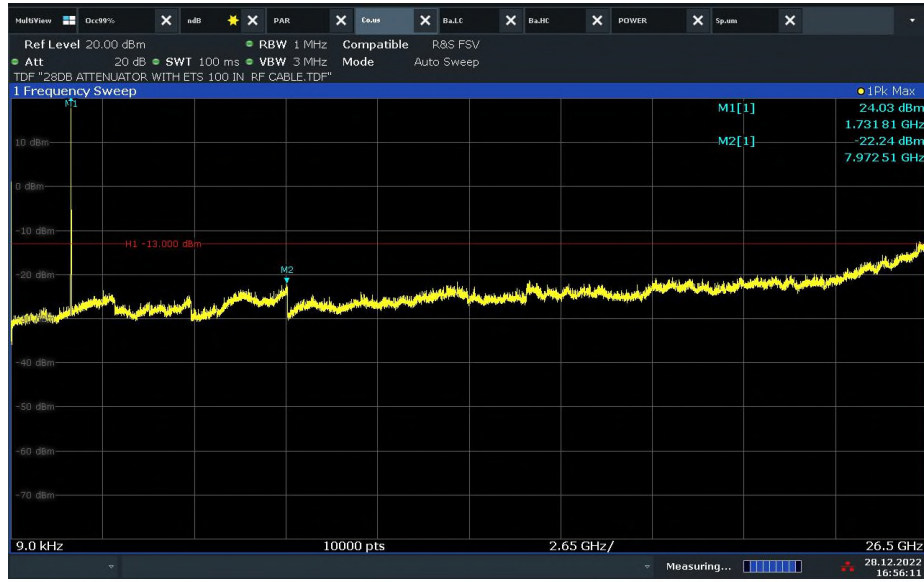


16:57:07 28.12.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 4 Uplink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions



LTE Band 4 Uplink 15MHz Bandwidth Middle Channel Conducted Spurious Emissions





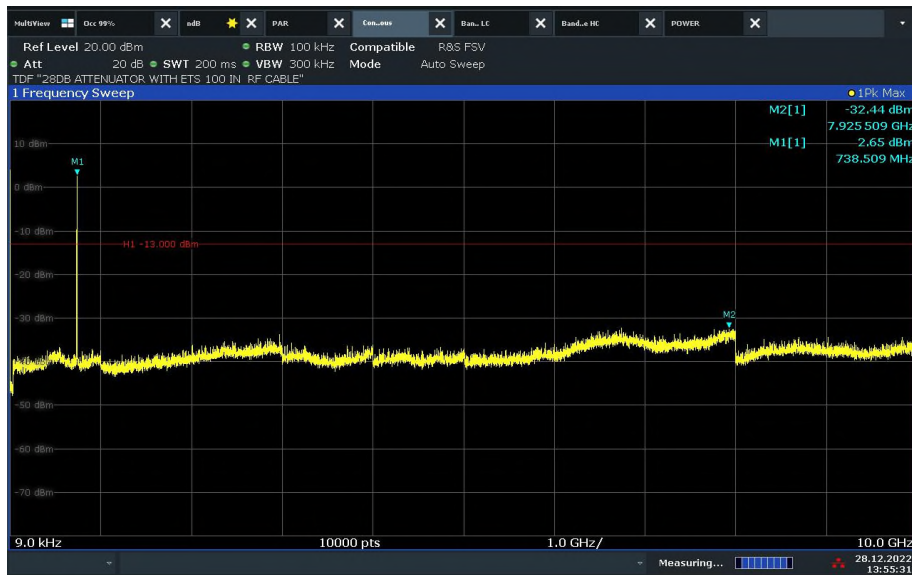
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 4 Uplink 20MHz Bandwidth Middle Channel Conducted Spurious Emissions



15:51:38 27.12.2022

LTE Band 12 Downlink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions

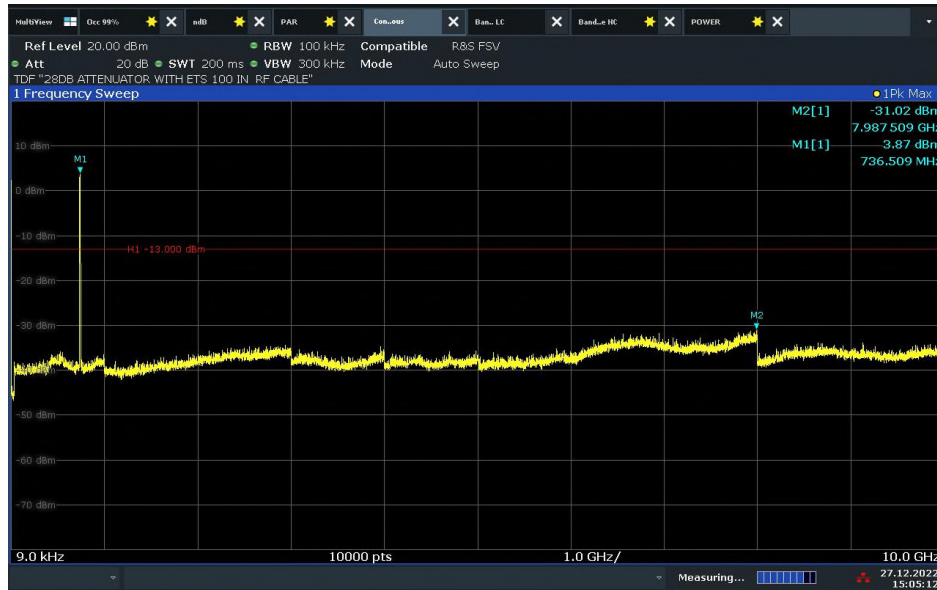


13:55:32 28.12.2022

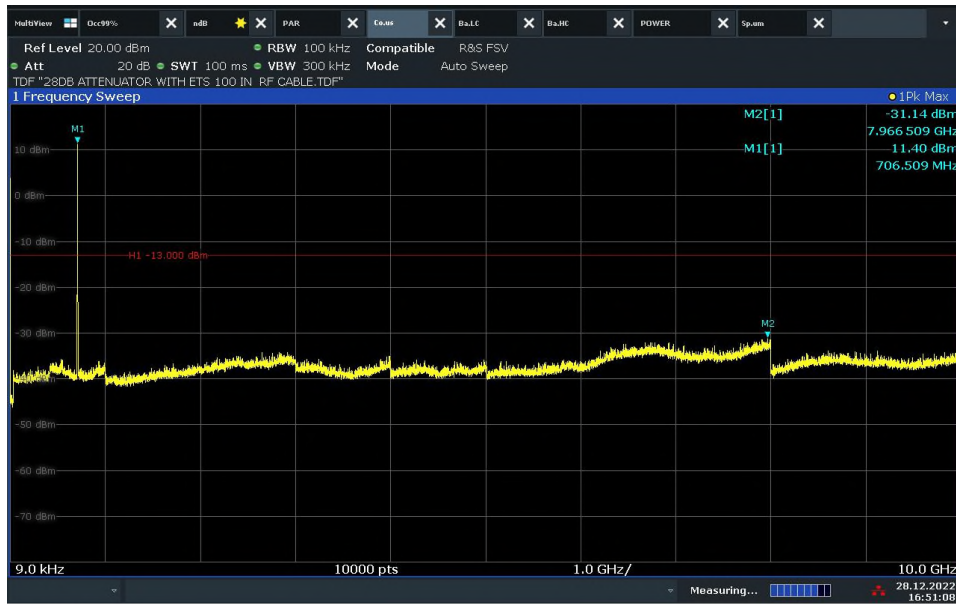


FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 12 Downlink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions



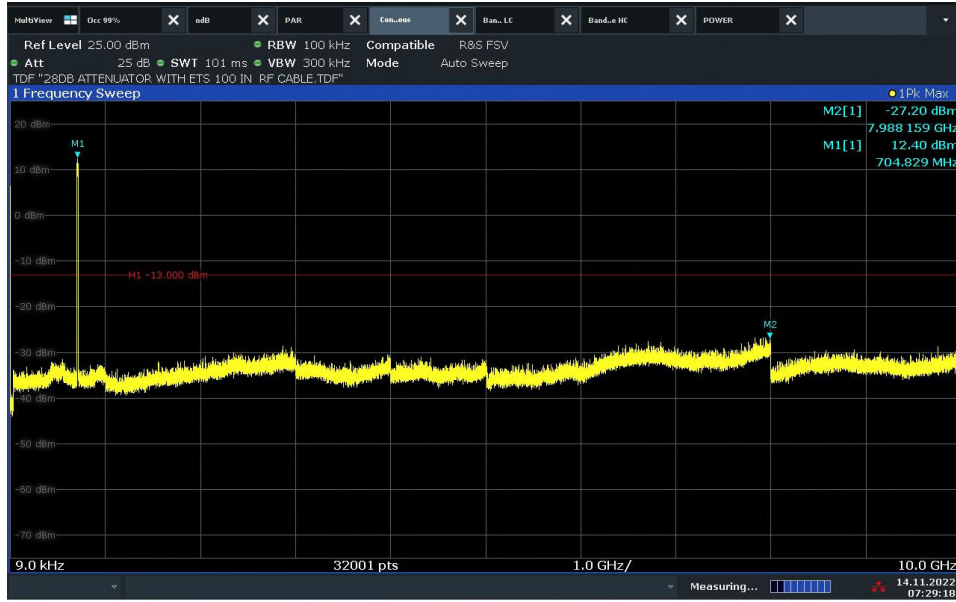
LTE Band 12 Uplink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions



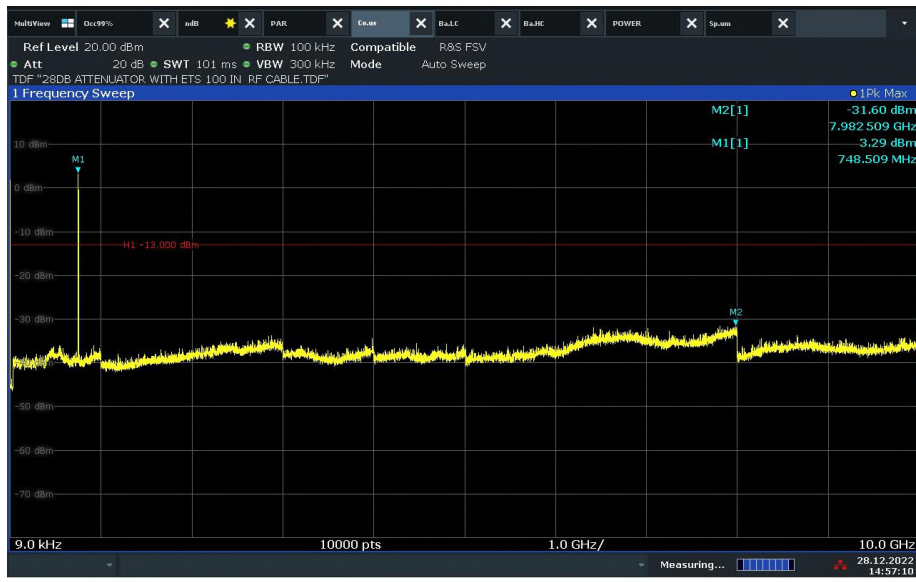


FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
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LTE Band 12 Uplink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions



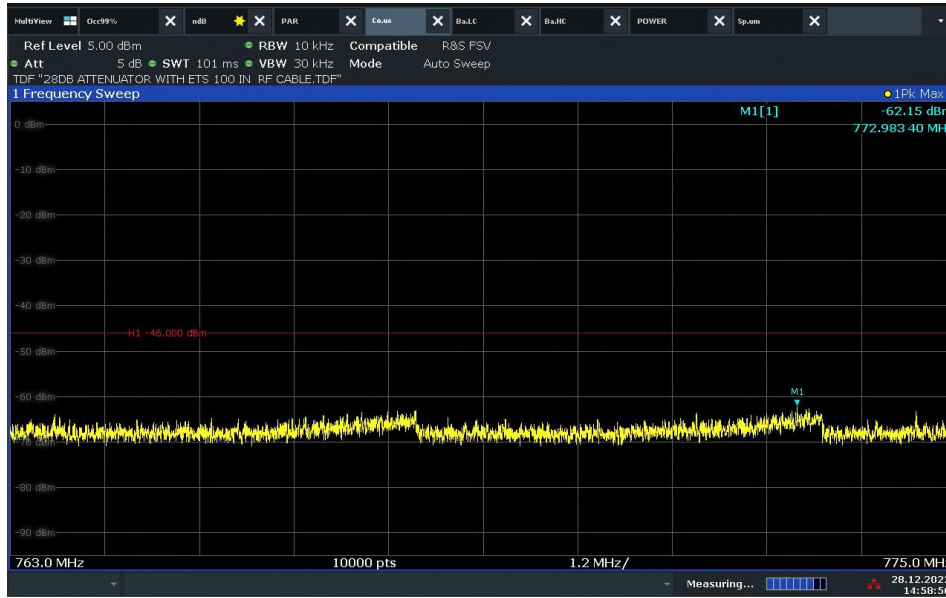
LTE Band 13 Downlink 5MHz Bandwidth Low Channel Conducted Spurious Emissions





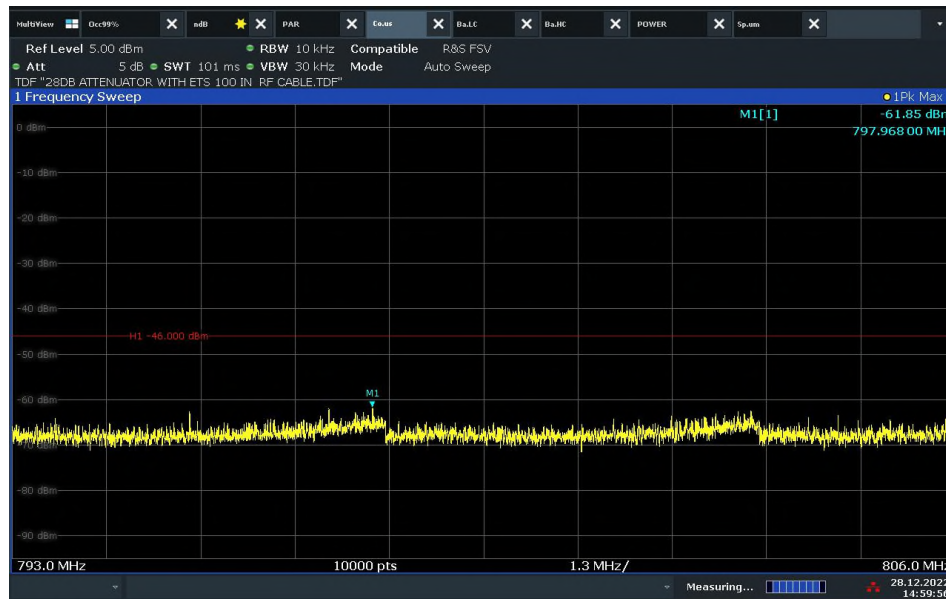
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Downlink 5MHz Bandwidth Low Channel Conducted Spurious Emissions (763-775 MHz)



14:58:56 28.12.2022

LTE Band 13 Downlink 5MHz Bandwidth Low Channel Conducted Spurious Emissions (793-806 MHz)

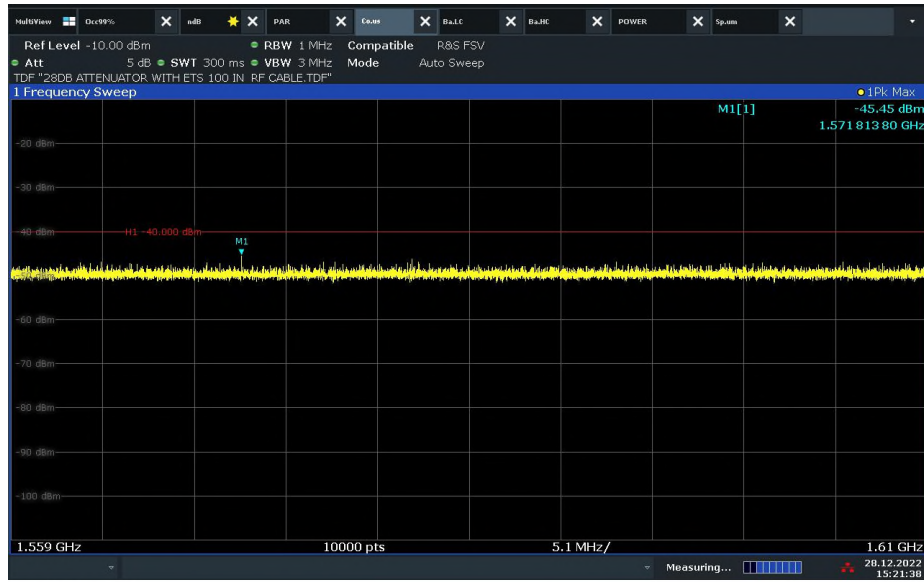


14:59:56 28.12.2022



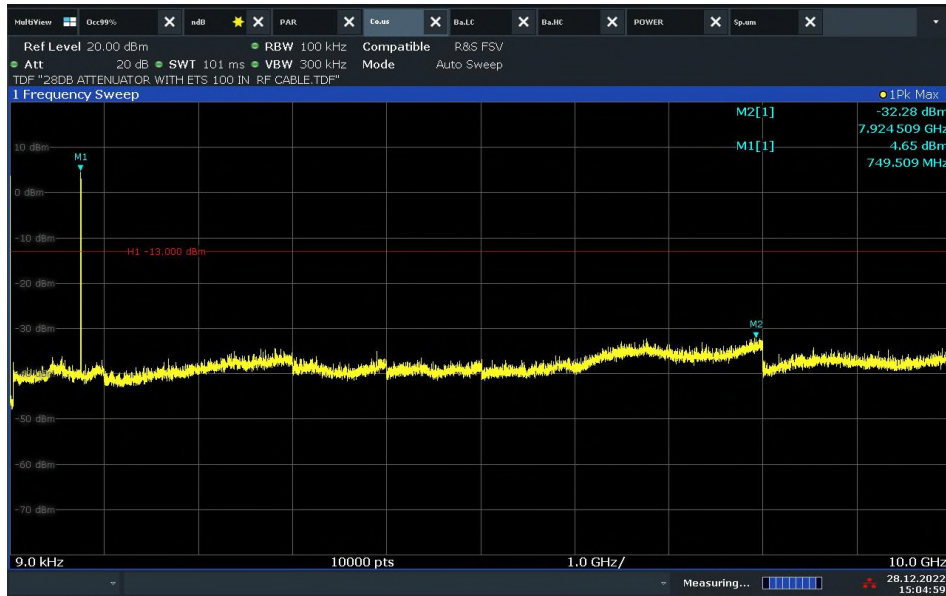
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Downlink 5MHz Bandwidth Low Channel Conducted Spurious Emissions (1559-1610 MHz)



15:21:38 28.12.2022

LTE Band 13 Downlink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions

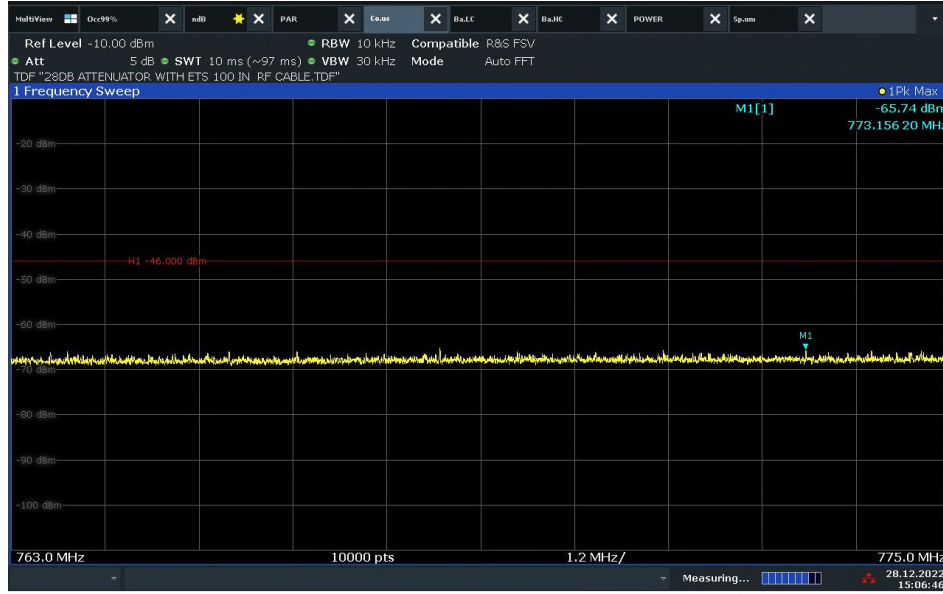


15:04:59 28.12.2022



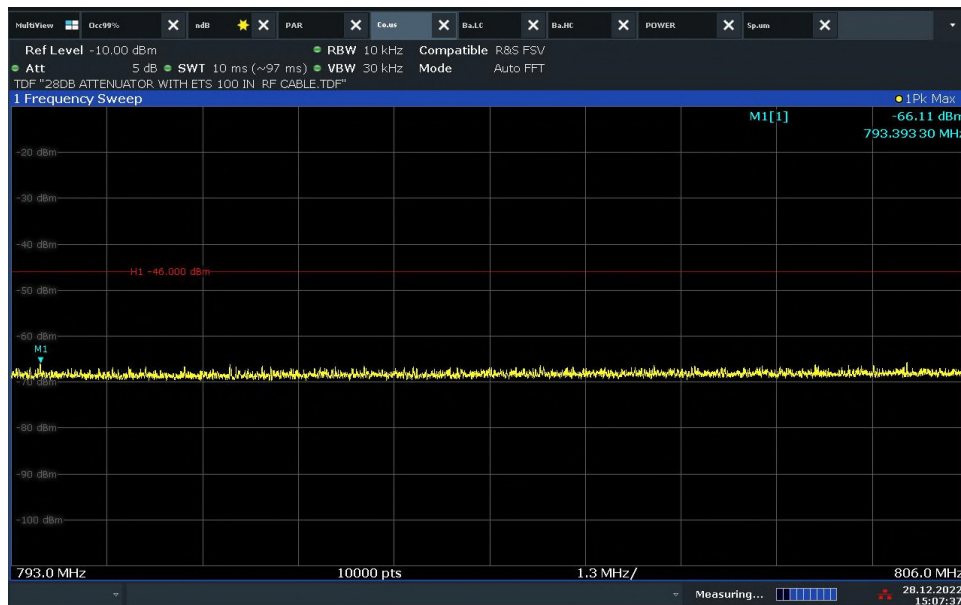
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LTE Band 13 Downlink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions (763-775 MHz)



15:06:47 28.12.2022

LTE Band 13 Downlink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions (793-806 MHz)

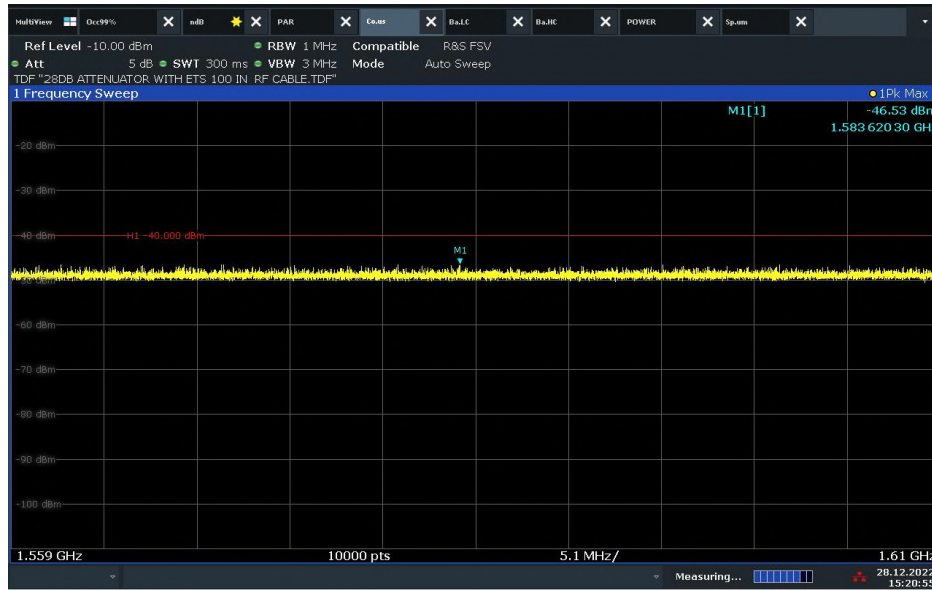


15:07:38 28.12.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Downlink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions (1559-1610 MHz)



15:20:56 28.12.2022

LTE Band 13 Downlink 5MHz Bandwidth High Channel Conducted Spurious Emissions



15:12:26 28.12.2022



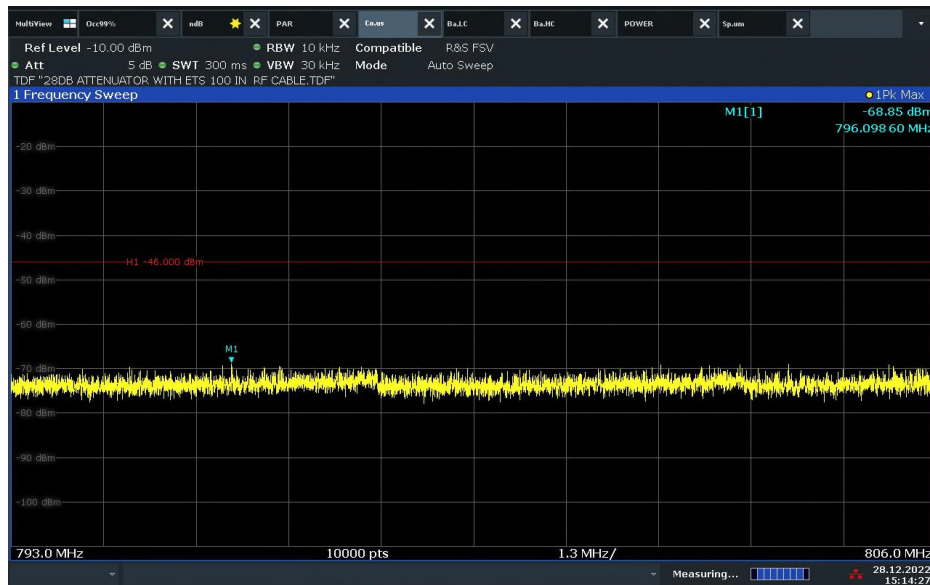
FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Downlink 5MHz Bandwidth High Channel Conducted Spurious Emissions (763-775 MHz)



15:15:09 28.12.2022

LTE Band 13 Downlink 5MHz Bandwidth High Channel Conducted Spurious Emissions (793-806 MHz)

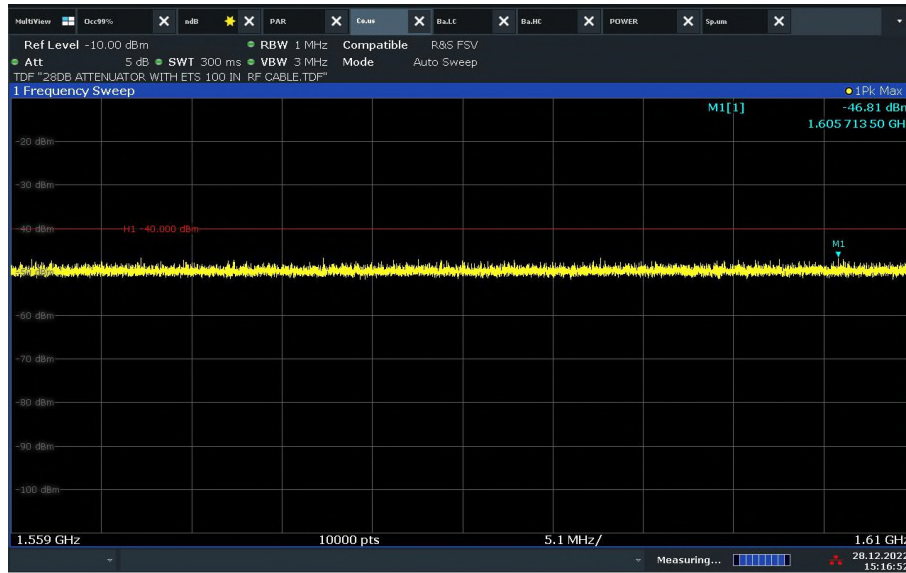


15:14:28 28.12.2022

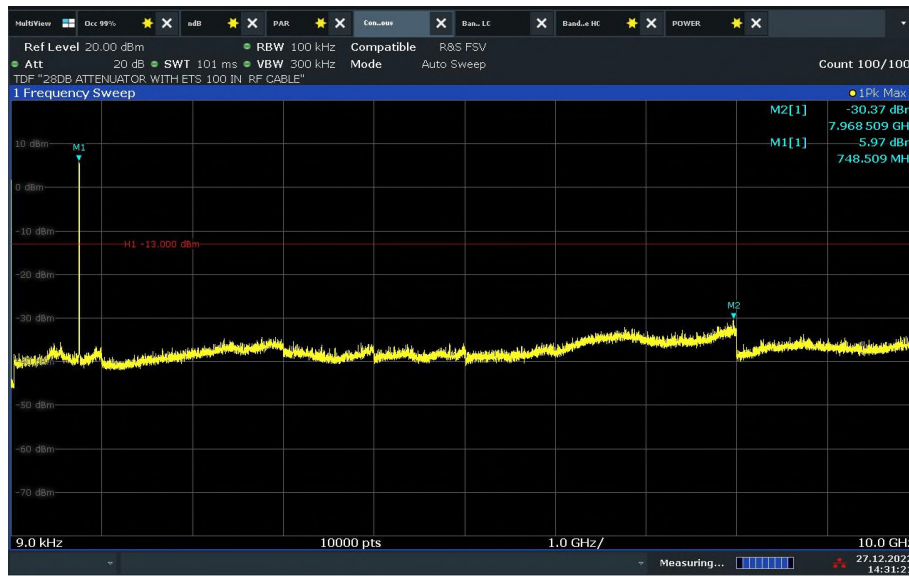


FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
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LTE Band 13 Downlink 5MHz Bandwidth High Channel Conducted Spurious Emissions (1559-1610 MHz)

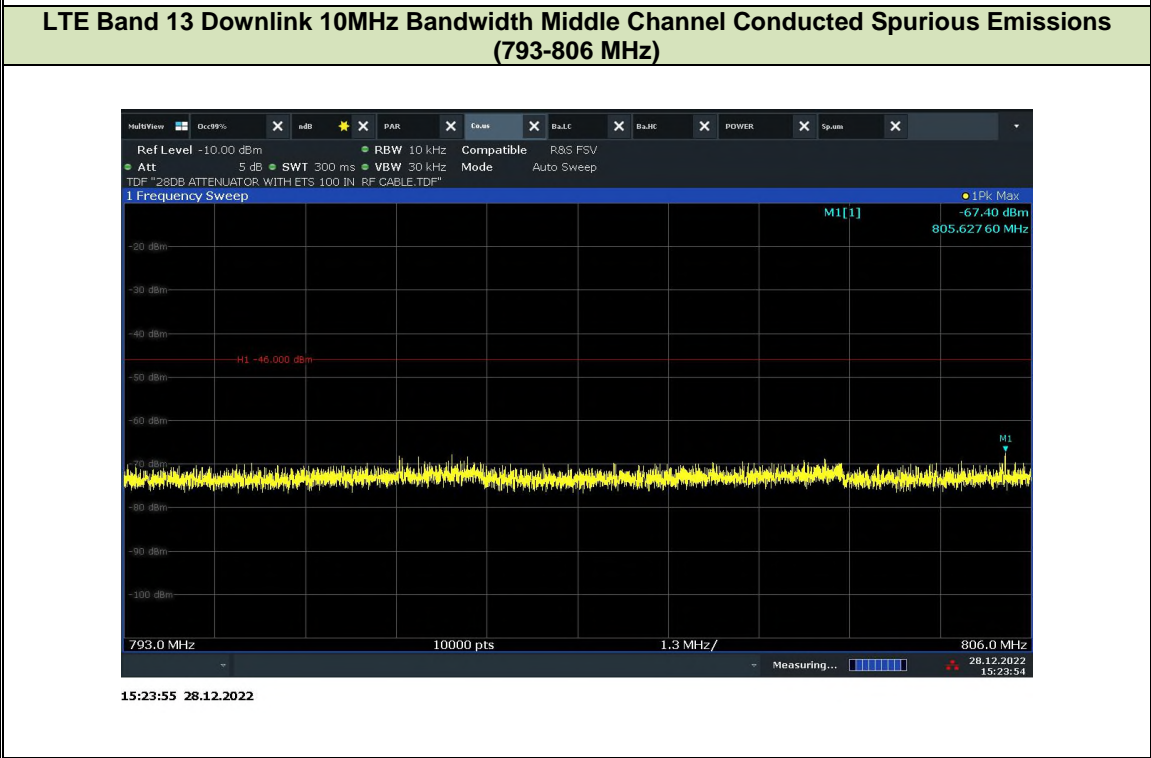
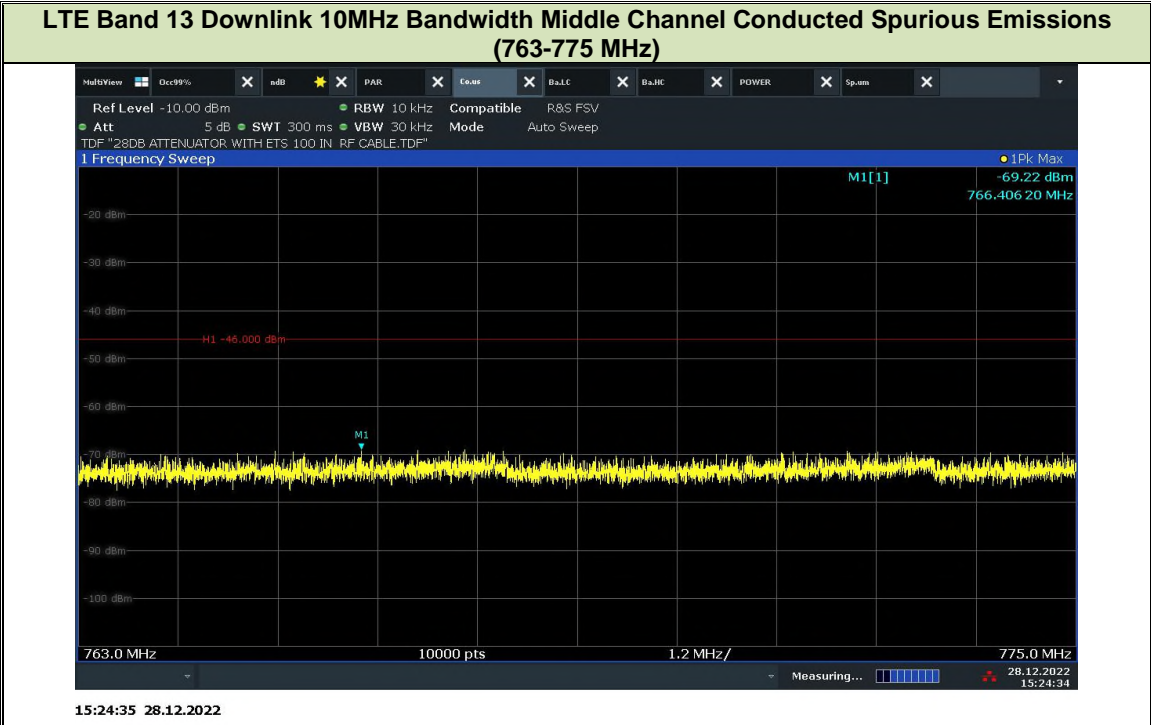


LTE Band 13 Downlink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions





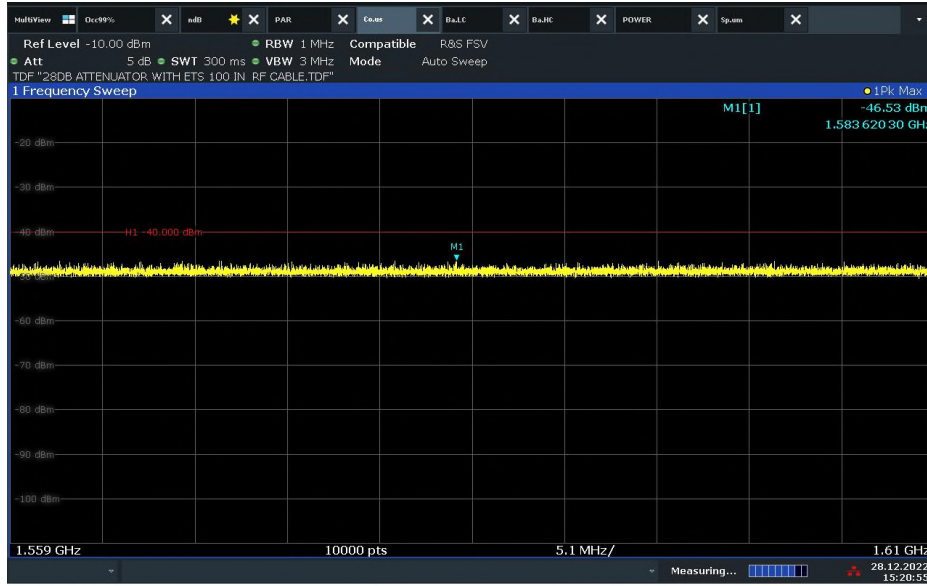
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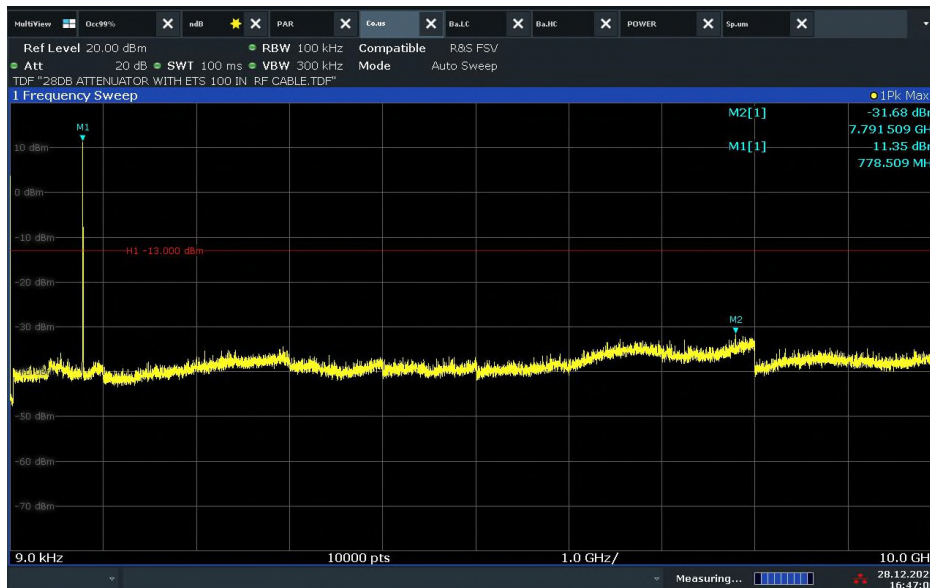


FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
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LTE Band 13 Downlink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions (1559-1610 MHz)



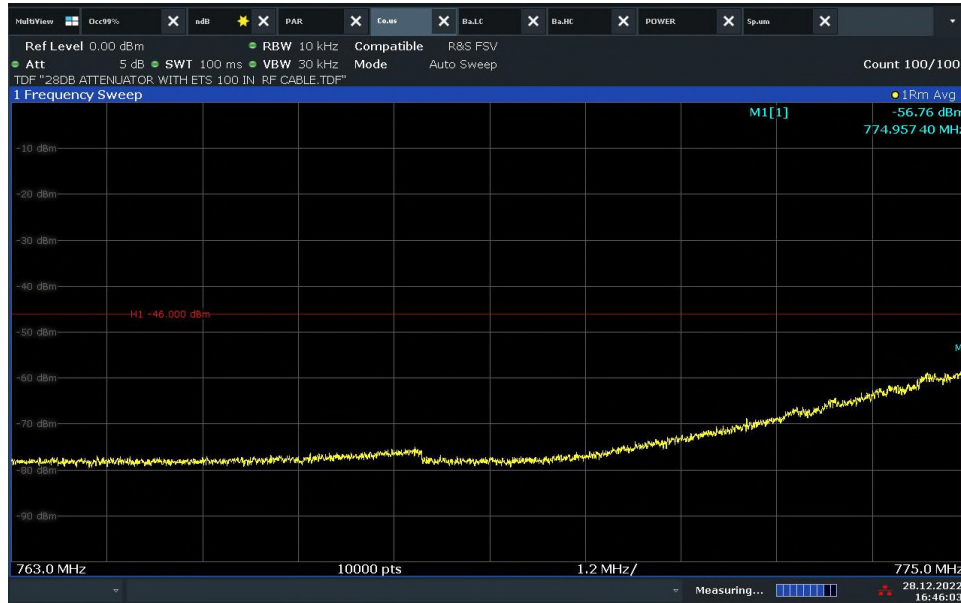
LTE Band 13 Uplink 5MHz Bandwidth Low Channel Conducted Spurious Emissions





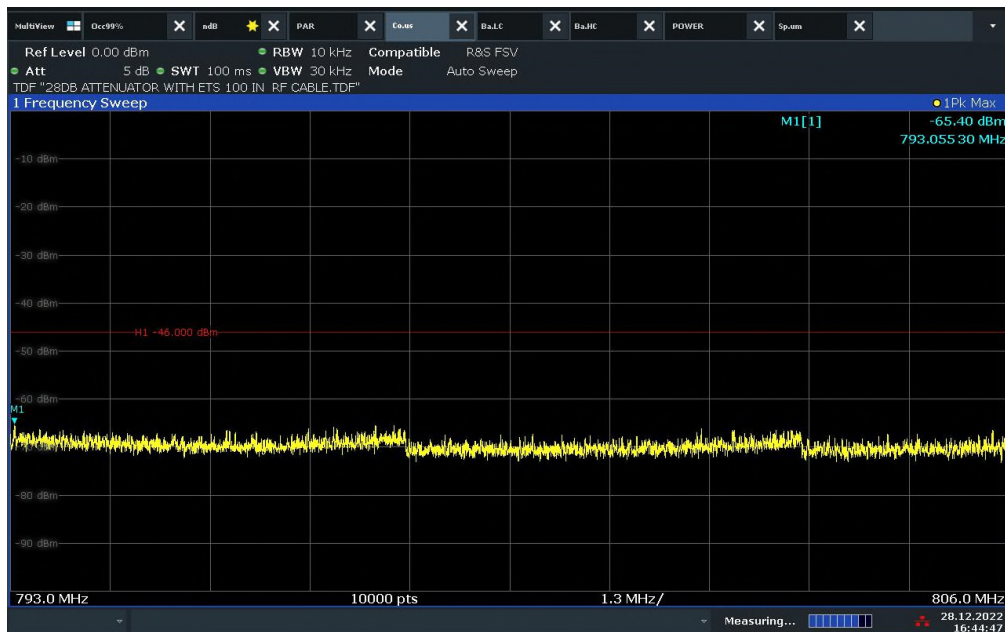
FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Uplink 5MHz Bandwidth Low Channel Conducted Spurious Emissions (763-775 MHz)



16:46:03 28.12.2022

LTE Band 13 Uplink 5MHz Bandwidth Low Channel Conducted Spurious Emissions (793-806 MHz)



16:44:47 28.12.2022



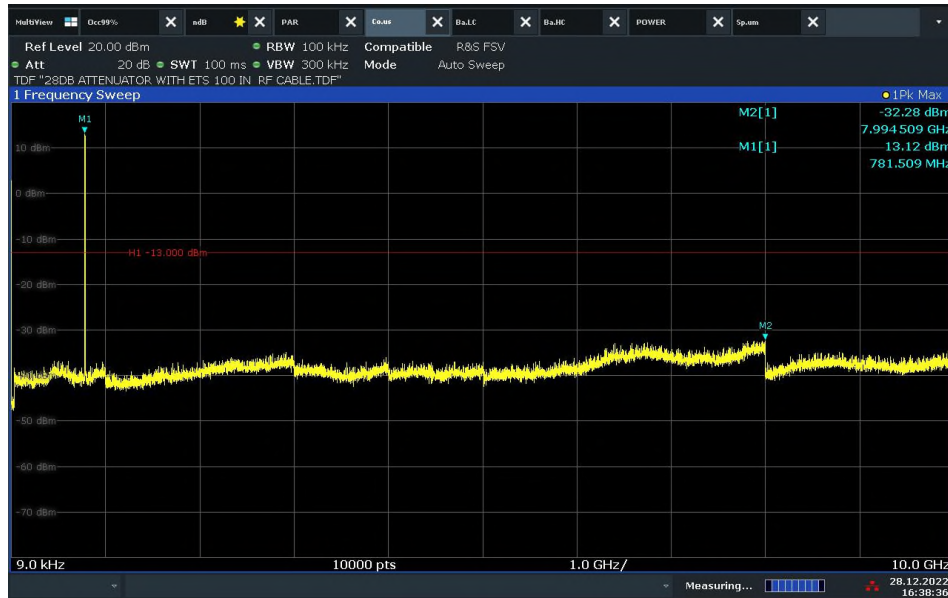
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LTE Band 13 Uplink 5MHz Bandwidth Low Channel Conducted Spurious Emissions (1559-1610 MHz)



16:41:58 28.12.2022

LTE Band 13 Uplink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions

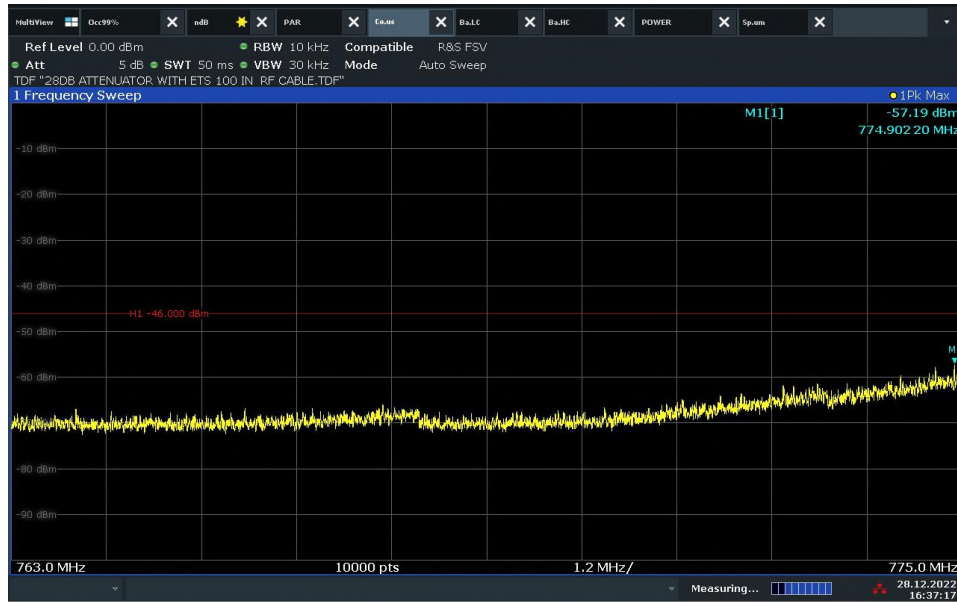


16:38:37 28.12.2022

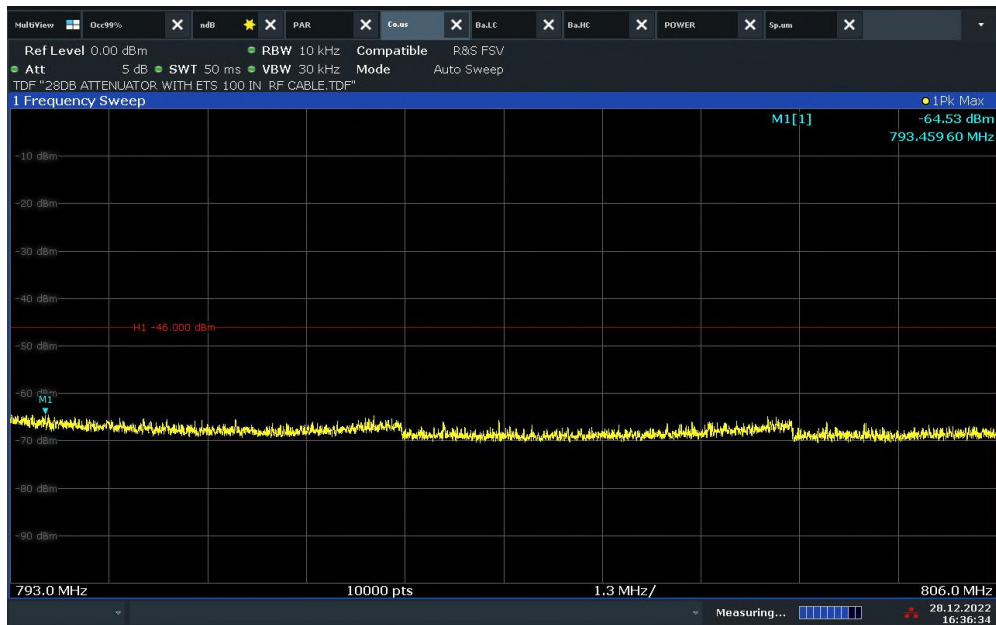


FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Uplink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions (763-775 MHz)



LTE Band 13 Uplink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions (793-806 MHz)





FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Uplink 5MHz Bandwidth Middle Channel Conducted Spurious Emissions (1559-1610 MHz)



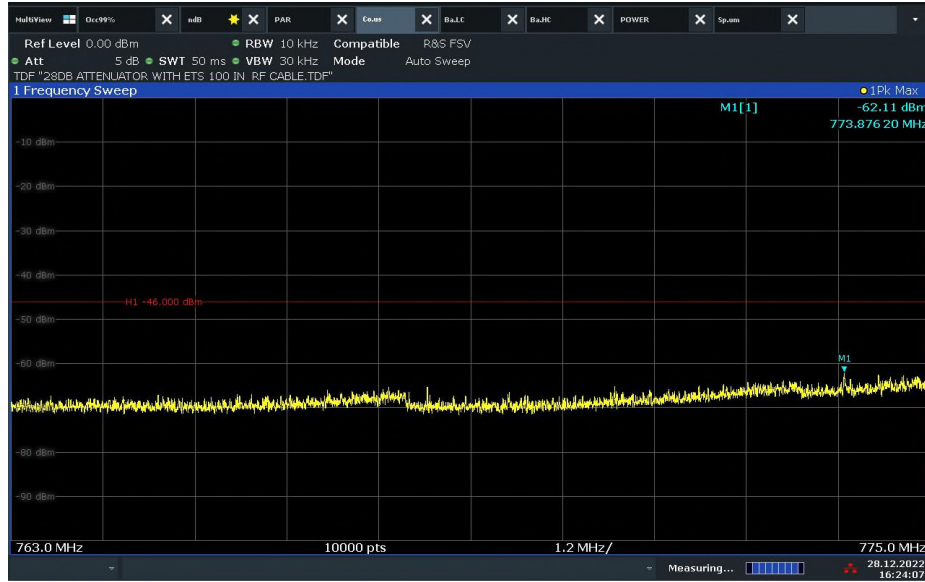
LTE Band 13 Uplink 5MHz Bandwidth High Channel Conducted Spurious Emissions





FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Uplink 5MHz Bandwidth High Channel Conducted Spurious Emissions (763-775 MHz)



LTE Band 13 Uplink 5MHz Bandwidth High Channel Conducted Spurious Emissions (793-806 MHz)





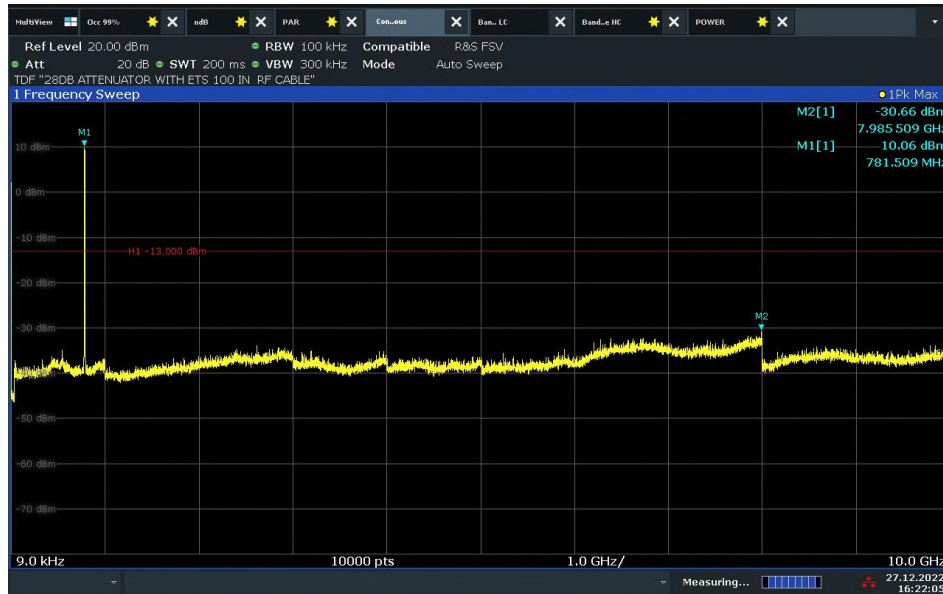
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Uplink 5MHz Bandwidth High Channel Conducted Spurious Emissions (1559-1610 MHz)



16:19:32 28.12.2022

LTE Band 13 Uplink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions

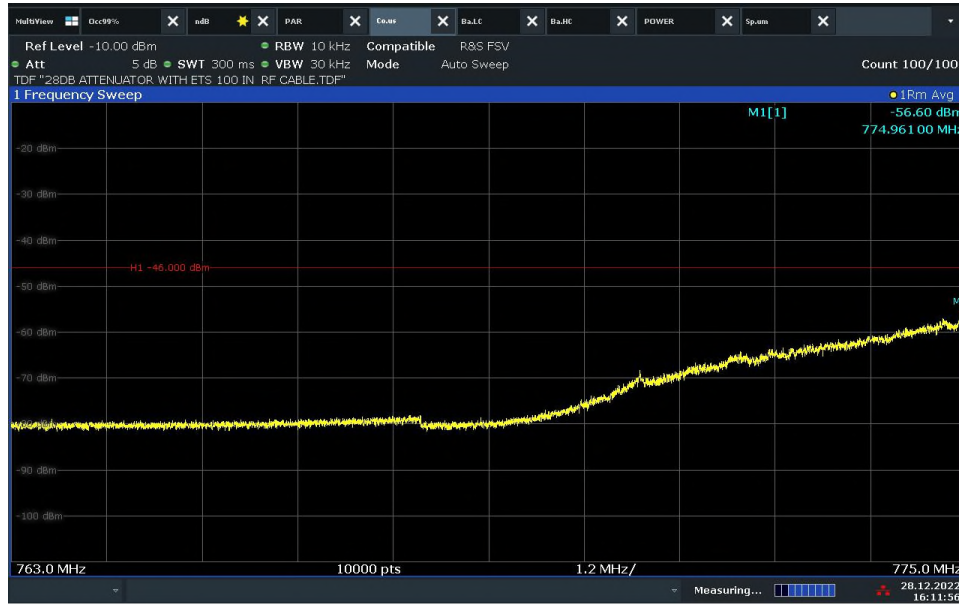


16:22:06 27.12.2022



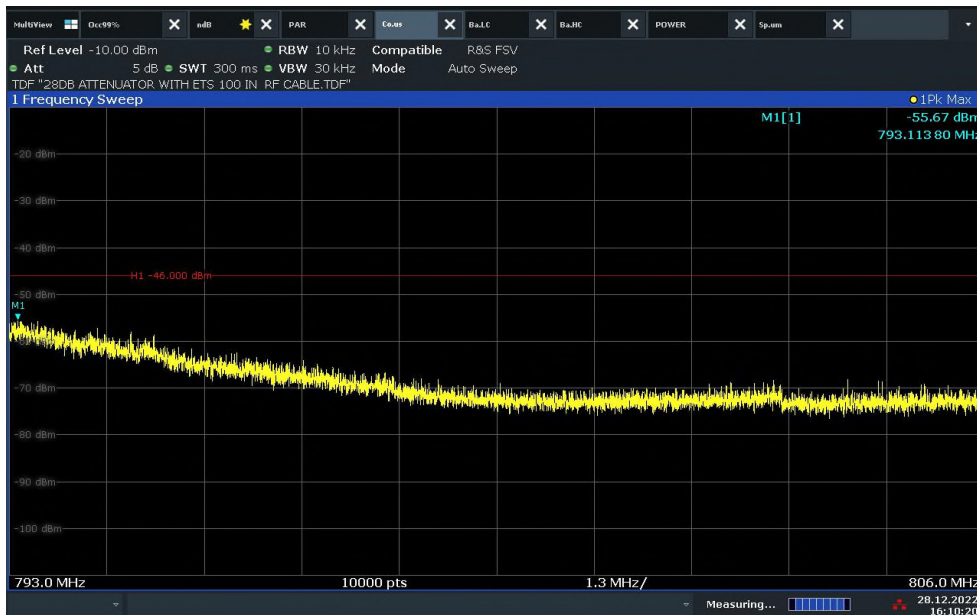
FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
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LTE Band 13 Uplink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions (763-775 MHz)



16:11:57 28.12.2022

LTE Band 13 Uplink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions (793-806 MHz)



16:10:21 28.12.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

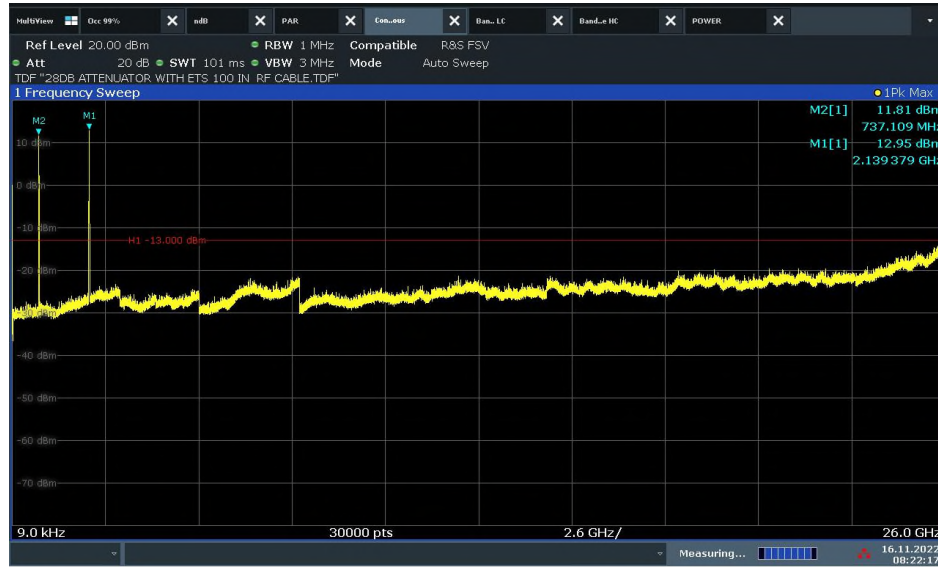
LTE Band 13 Uplink 10MHz Bandwidth Middle Channel Conducted Spurious Emissions (1559-1610 MHz)





FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

**2 Bands per antenna port Conducted Spurious Emissions
CU with Antenna Port A Downlink: LTE Band 4 20MHz BW High Ch & LTE Band 12 10MHz BW
High Ch**

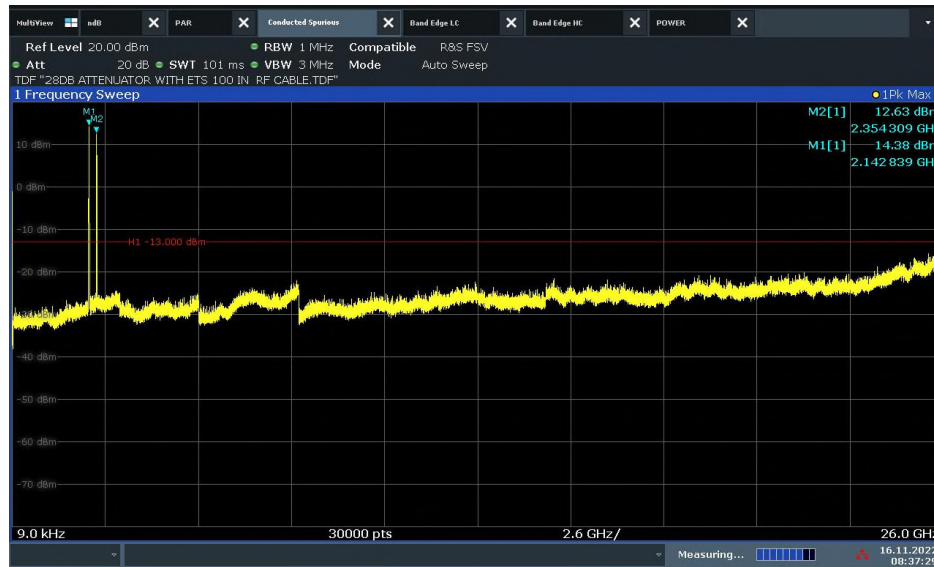


08:22:17 16.11.2022



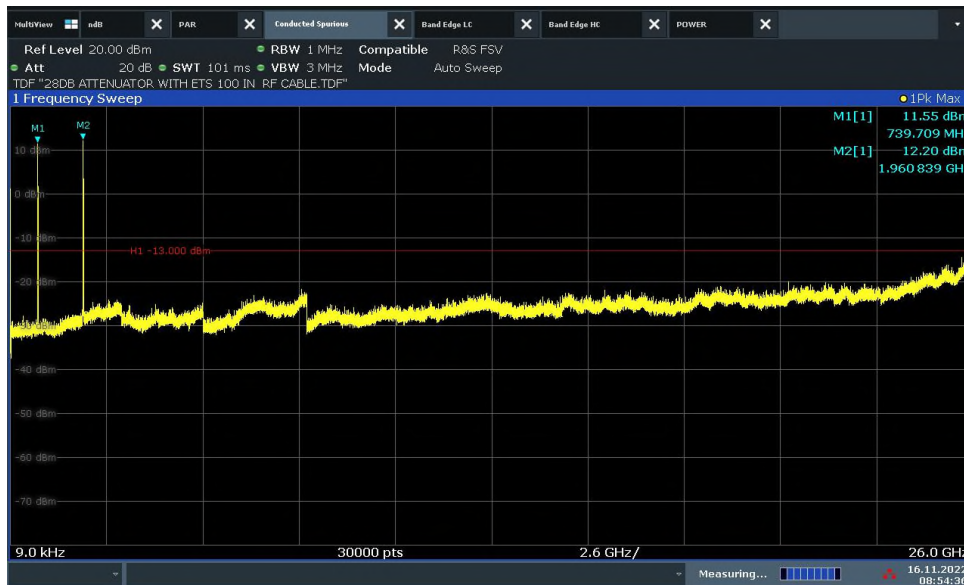
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions CU with Antenna Port A Downlink: LTE Band 4 20MHz BW High Ch & LTE Band 30 10MHz BW Mid Ch



08:37:30 16.11.2022

2 Bands per antenna port Conducted Spurious Emissions CU with Antenna Port A Downlink: LTE Band 25 20MHz BW Mid Ch & LTE Band 12 10MHz BW High Ch

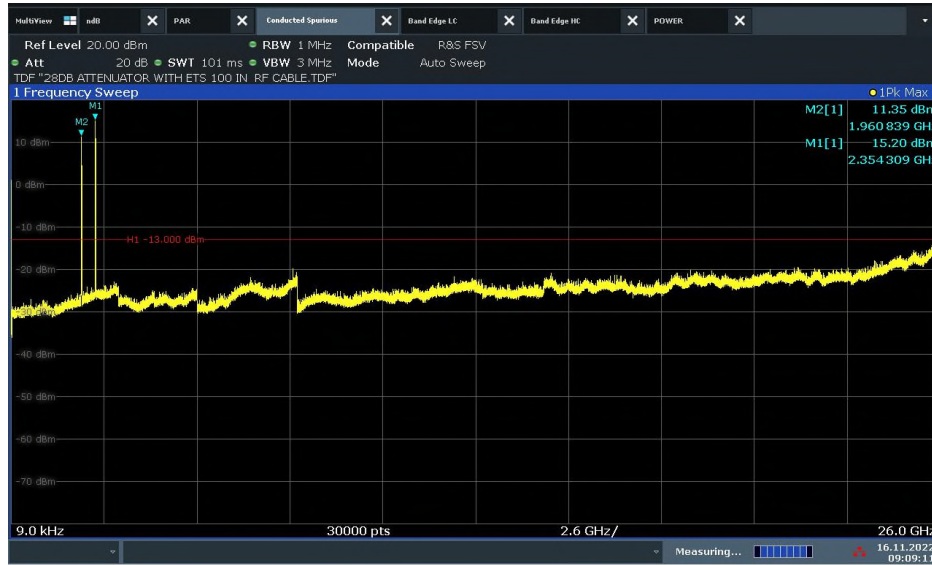


08:54:37 16.11.2022



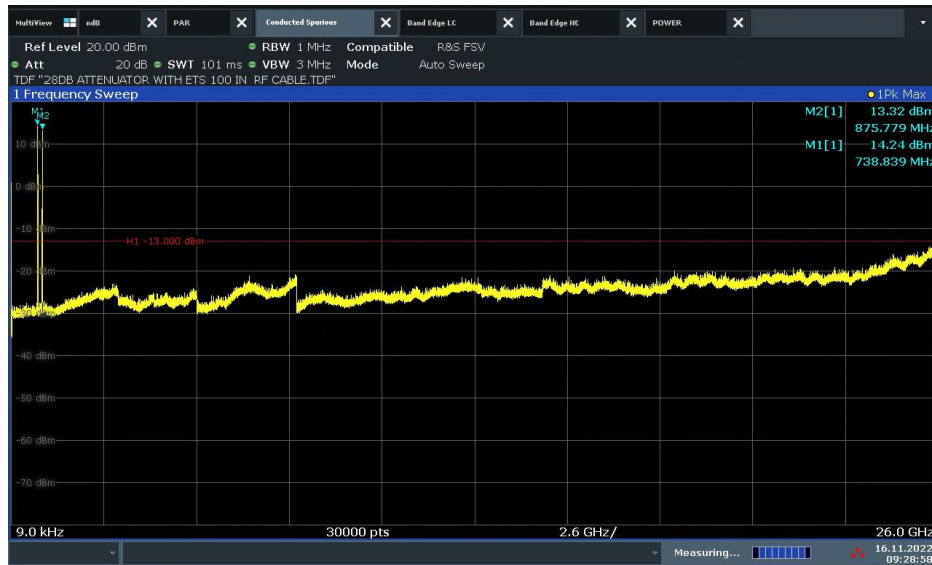
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions CU with Antenna Port A Downlink: LTE Band 25 20MHz BW Mid Ch & LTE Band 30 10MHz BW Mid Ch



09:09:12 16.11.2022

2 Bands per antenna port Conducted Spurious Emissions CU with Antenna Port A Downlink: WCDMA Band 5 15MHz BW Low Ch & LTE Band 12 10MHz BW High Ch

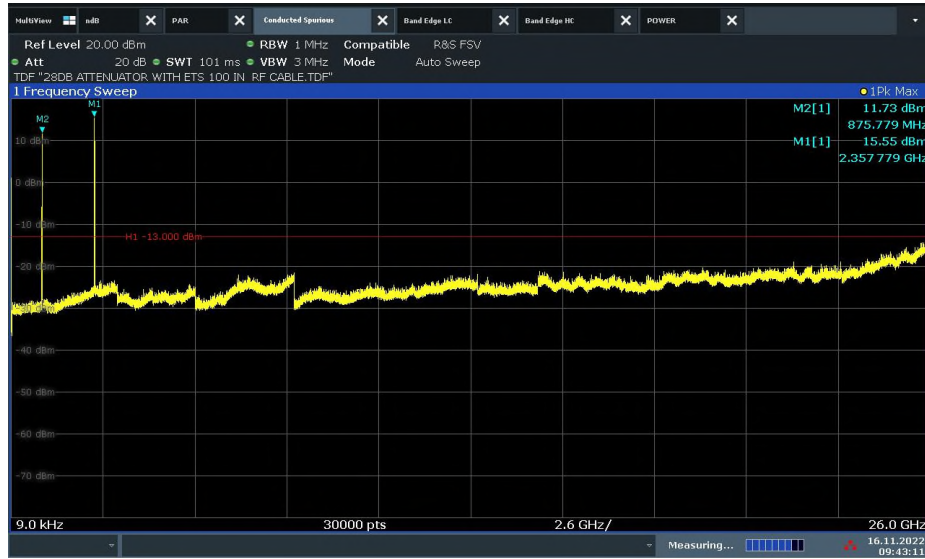


09:28:59 16.11.2022

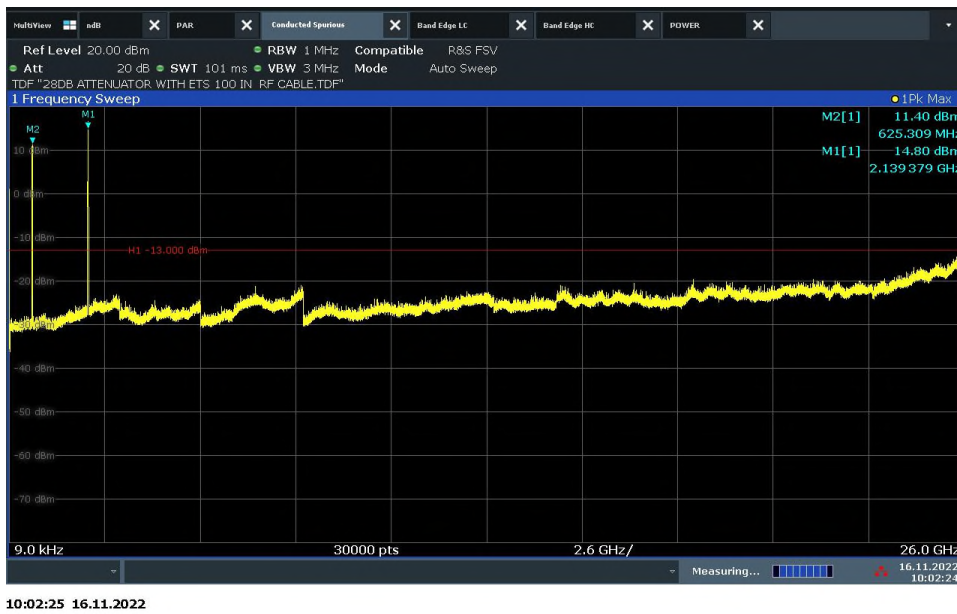


FCU ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions
CU with Antenna Port A Downlink: WCDMA Band 5 15MHz BW Low Ch & LTE Band 30 10MHz BW Mid Ch



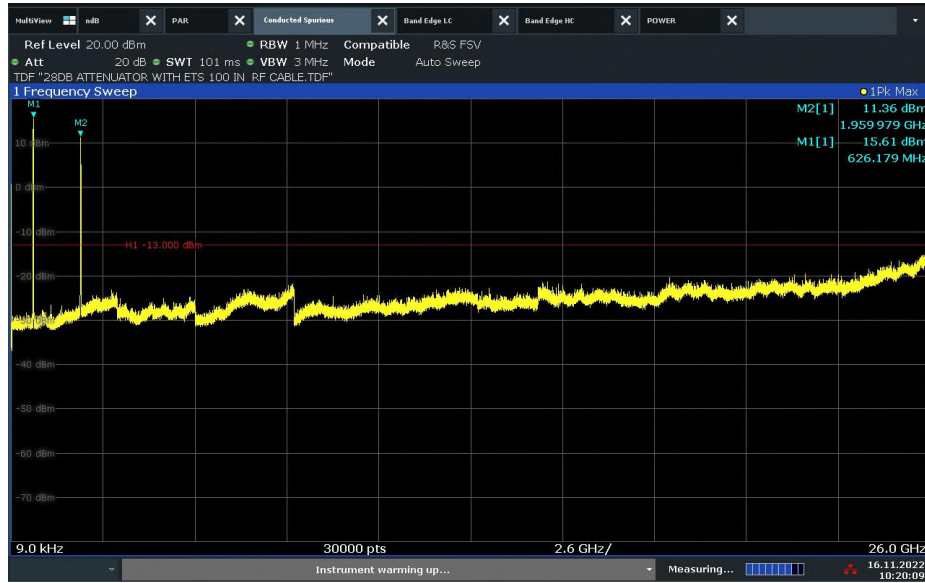
2 Bands per antenna port Conducted Spurious Emissions
CU with Antenna Port B Downlink: LTE Band 4 20MHz BW High Ch & LTE Band 71 20MHz BW Low Ch





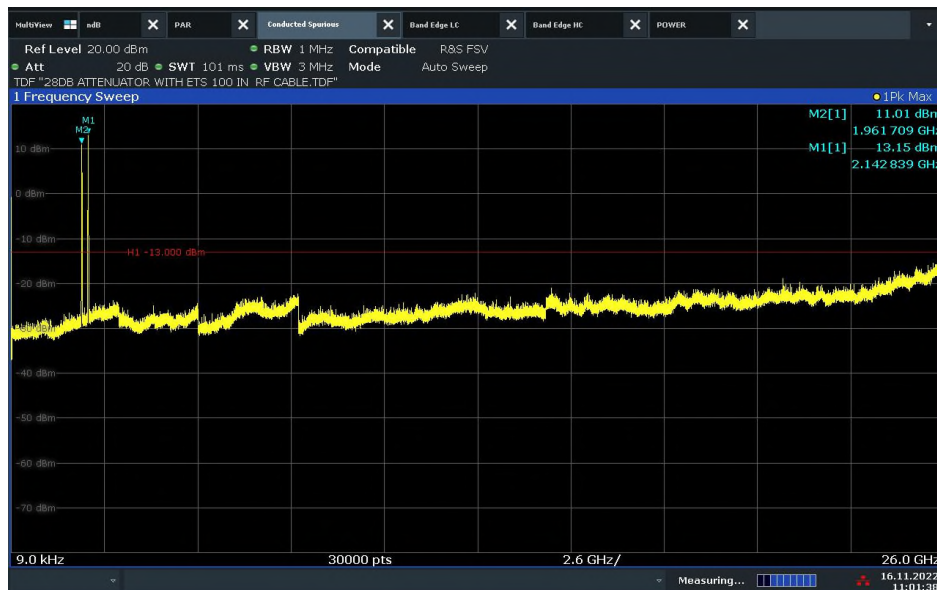
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions CU with Antenna Port B Downlink: LTE Band 25 20MHz BW Mid Ch & LTE Band 71 20MHz BW Low Ch



10:20:10 16.11.2022

2 Bands per antenna port Conducted Spurious Emissions CU with Antenna Port B Downlink: LTE Band 4 20MHz BW High Ch & LTE Band 25 20MHz BW Mid Ch

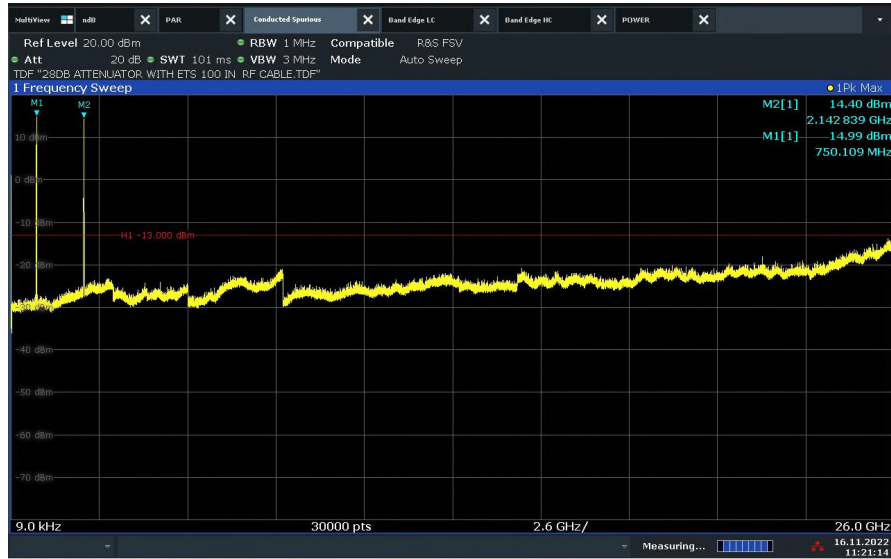


11:01:39 16.11.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

**2 Bands per antenna port Conducted Spurious Emissions
CU with Antenna Port C Downlink: LTE Band 4 20MHz BW High Ch & LTE Band 13 10MHz BW
Mid Ch**



**2 Bands per antenna port Conducted Spurious Emissions
CU with Antenna Port C Downlink: LTE Band 25 20MHz BW Mid Ch & LTE Band 13 10MHz BW
Mid Ch**





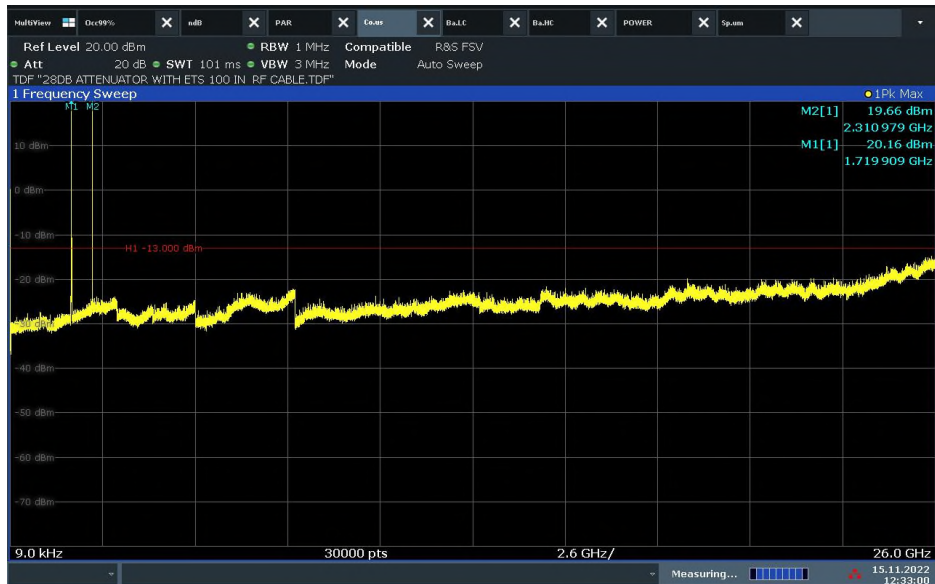
FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port A Uplink: LTE Band 4 15MHz BW Low Ch & LTE Band 12 10MHz BW Low Ch



12:23:44 15.11.2022

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port A Uplink: LTE Band 4 15MHz BW Low Ch & LTE Band 30 5MHz BW High Ch



12:33:01 15.11.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port A Uplink: LTE Band 25 20MHz BW High Ch & LTE Band 12 10MHz BW Low Ch



12:48:20 15.11.2022

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port A Uplink: LTE Band 25 20MHz BW High Ch & LTE Band 30 5MHz BW High Ch



13:04:38 15.11.2022



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port A Uplink: WCDMA Band 5 5MHz BW Mid Ch & LTE Band 12 10MHz BW Low Ch



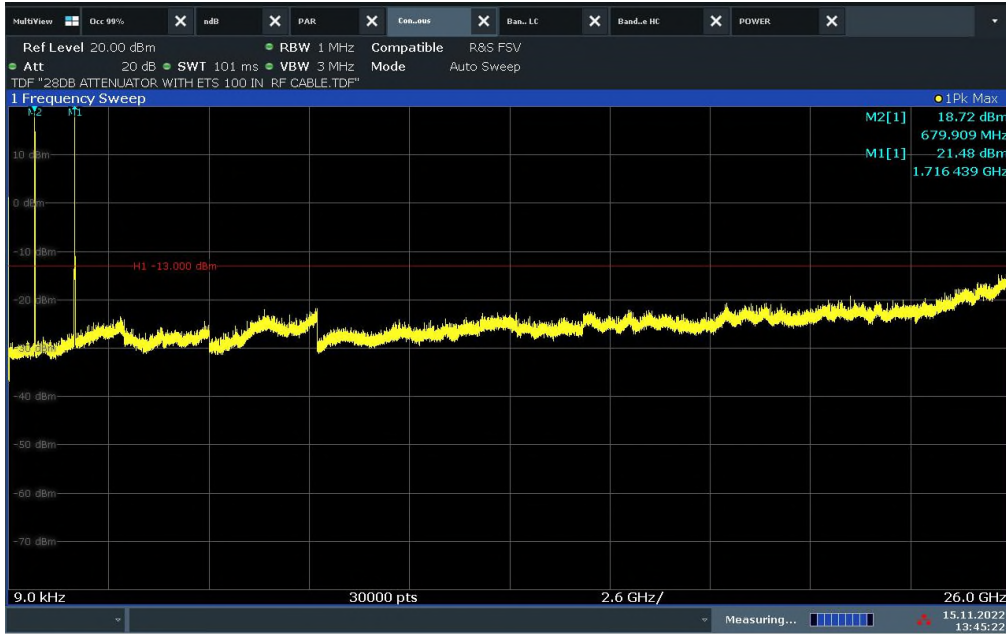
2 Bands per antenna port Conducted Spurious Emissions
Antenna Port A Uplink: WCDMA Band 5 5MHz BW Mid Ch & LTE Band 30 5MHz BW High Ch





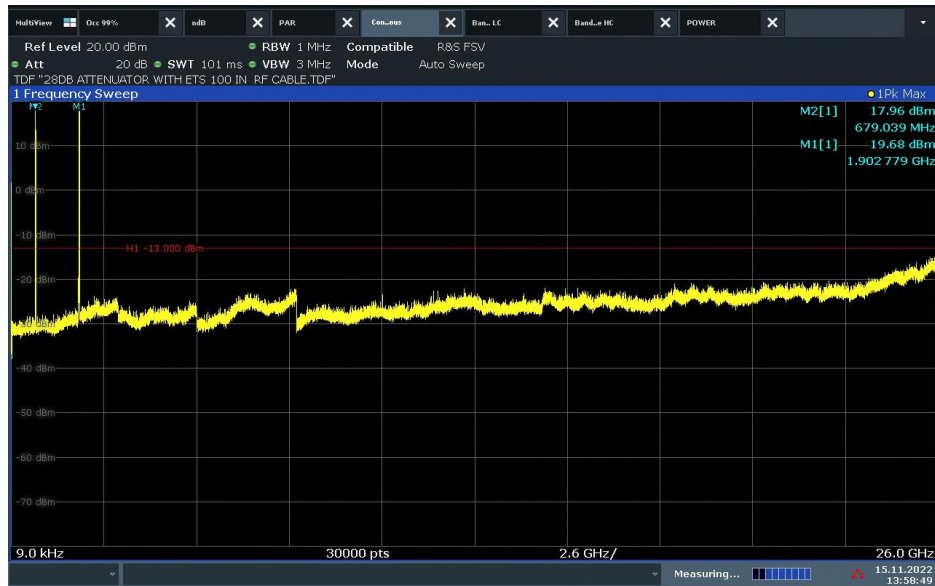
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IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port B Uplink: LTE Band 4 15MHz BW Low Ch & LTE Band 71 10MHz BW Mid Ch



13:45:23 15.11.2022

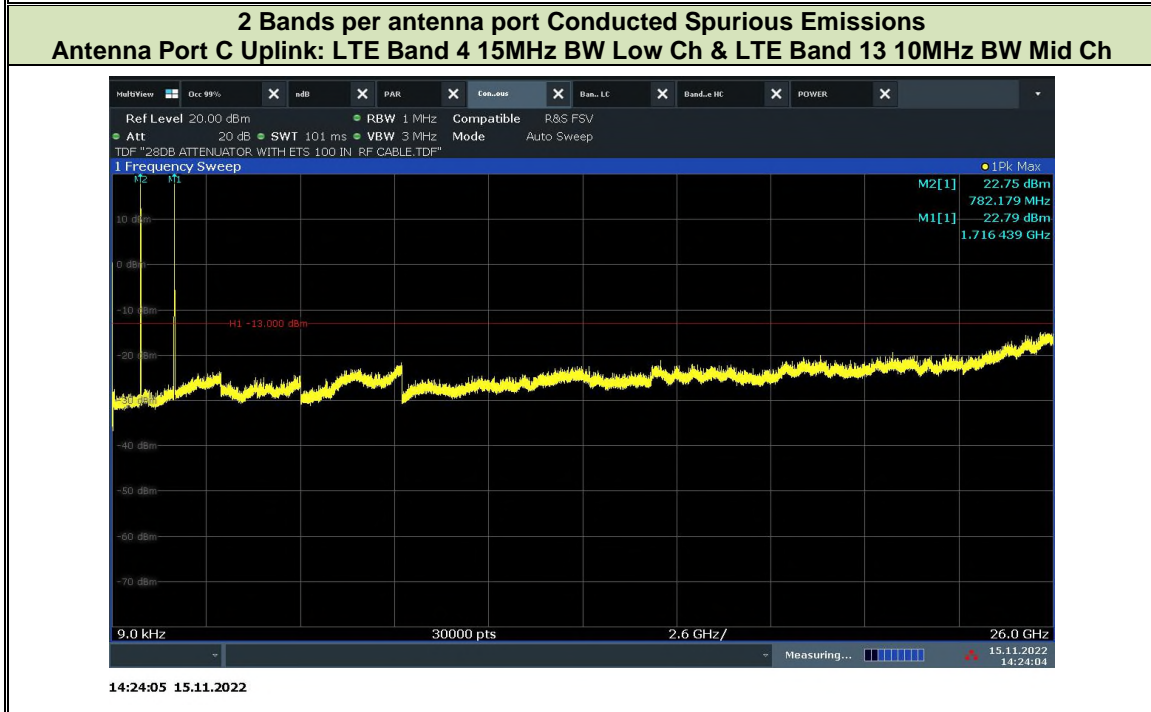
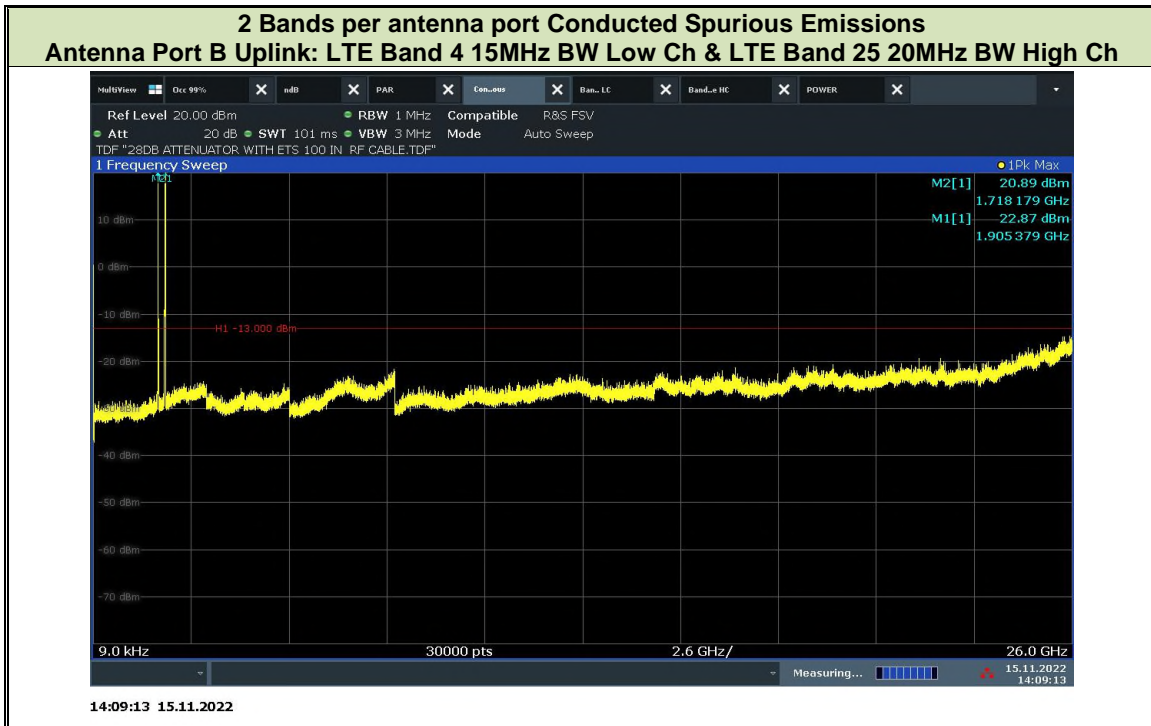
2 Bands per antenna port Conducted Spurious Emissions
Antenna Port B Uplink: LTE Band 25 20MHz BW High Ch & LTE Band 71 10MHz BW Mid Ch



13:58:50 15.11.2022

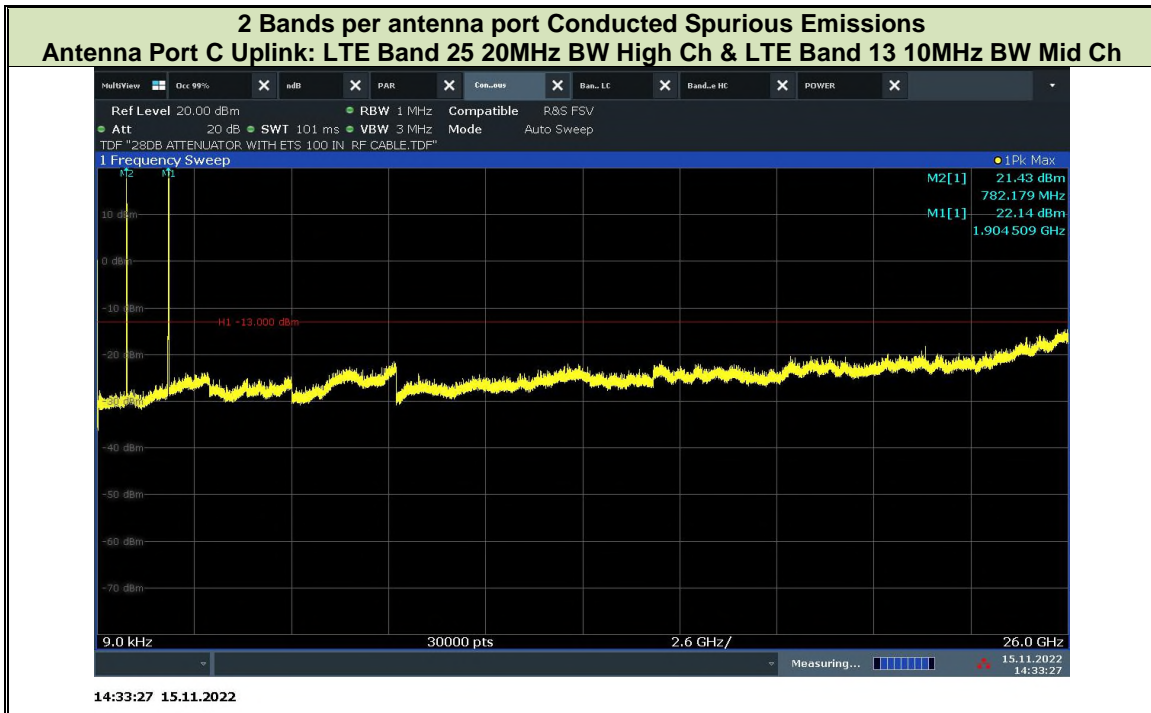


FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU





FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU





FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2.7 Noise Limit

2.7.1 Specification Reference

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(A)
FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(I)
KDB935210 D04, Clause 7.7

2.7.2 Standard Applicable

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(A) Noise Limits.:

The transmitted noise power in dBm/MHz of frequency selective consumer boosters outside the licensee's spectrum blocks at their uplink and downlink ports shall not exceed the following limits:

(1) -103 dBm/MHz - RSSI

(i) Where RSSI is the downlink composite signal power received in dBm for frequencies in the band of operation outside the licensee's spectrum block as measured after spectrum block filtering is applied and is referenced to the booster's donor port for each band of operation. RSSI is expressed in negative dB units relative to 1 mW.

(ii) Boosters with MSCL less than 40 dB, shall reduce the Noise output in (A) by 40 dB - MSCL, where MSCL is the minimum coupling loss in dB between the wireless device and booster's server port. MSCL must be calculated or measured for each band of operation and provided in compliance test reports.

(2)(i) Maximum downlink noise power shall not exceed $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(\text{Frequency})$, where Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz.

(ii) Compliance with Noise limits will use instrumentation calibrated in terms of RMS equivalent voltage, and with booster input ports terminated or without input signals applied within the band of 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.

2.7.3 Equipment Under Test and Modification State

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

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

August 19 and October 15, 2019/XYZ

2.7.5 Test Equipment Used

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



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2.7.6 Environmental Conditions

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

Ambient Temperature	24.5 - 26.7°C
Relative Humidity	45.0 - 49.6%
ATM Pressure	98.9 - 99.0kPa

2.7.7 Additional Observations

- This is conducted Test. Test procedure is per Section 7.7 of KDB935210 (D04 Provider Specific Booster Measurements v02r03). Appropriate offset (line losses) applied.
- The EUT operated in Test Mode with the gain set to the maximum gain and a minimum bandwidth setting (5MHz).
- For Maximum Noise (frequency Dependent) testing, setup the EUT according to Figure 6 of Section 7.7 of KDB935210.
- Maximum Noise (frequency Dependent) evaluations are conducted at CU antenna ports. Operational downlink band for WCDMA Band 5 and LTE Band 4, 12, 13, 25 were tested.
- For Maximum Noise (RSSI Dependent and Transmit Power off mode) and Noise Response Time tests, setup the EUT according to Figure 7 or 8 of Section 7.7 of KDB935210 as appropriate.
- Maximum Noise (RSSI Dependent and Transmit Power off mode) and Noise Response Time evaluations are conducted at CU and NU antenna ports. Operational uplink and downlink bands for WCDMA Band 5 and LTE Band 4, 12, 13, 25 were tested.
- Signal generator was configured to transmit: 4.1 MHz AWGN.

2.7.8 Test Results

Maximum Noise (Frequency Dependent)				
Band	Frequency Range (MHz)	Max Noise (dBm/MHz)	Limit* (dBm/MHz)	Margin (dB)
WCDMA Band 5 Downlink (Port A)	869 - 894	-66.06	-43.60	22.46
LTE Band 4 Downlink (Port A)	2110 - 2155	-68.18	-35.92	32.26
LTE Band 12 Downlink (Port A)	729 - 746	-68.0	-45.14	22.86
LTE Band 13 Downlink (Port C)	746 - 756	-62.57	-44.98	17.59
LTE Band 25 Downlink (Port A)	1930 - 1995	-68.56	-36.65	31.91

*: $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(\text{Frequency})$, where Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz. (Downlink only)



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

Maximum Noise (RSSI Dependent and Transmit Power off mode)					
Band	Frequency (MHz)	Signal Generator Output Level (dBm)	Max Noise (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
WCDMA Band 5 Downlink	869 - 894	-70.7	-76.81	-37.3	39.51
		-60.7	-76.69	-47.3	29.39
		-50.7	-76.96	-57.3	19.66
		-40.7**	-81.46	-67.3	14.16
		-30.7	-81.10	-70.0	11.10
		-20.7	-80.89	-70.0	10.89
WCDMA Band 5 Uplink	824 - 849	-74.7	-78.26	-33.3	44.96
		-64.7	-77.47	-43.3	34.17
		-54.7	-77.81	-53.3	24.51
		-44.7**	-81.36	-63.3	18.06
		-34.7	-81.15	-70.0	11.15
		-24.7	-81.45	-70.0	11.45
LTE Band 4 Downlink	2110 - 2155	-70.4	-71.14	-37.6	33.54
		-60.4	-71.80	-47.6	24.20
		-50.4	-72.43	-57.6	14.83
		-40.4**	-71.84	-67.6	4.24
		-30.4	-72.0	-70.0	2.0
		-20.4	-71.84	-70.0	1.84
LTE Band 4 Uplink	1710 - 1755	-77.0	-78.77	-31.0	47.77
		-67.0	-78.62	-41.0	37.62
		-57.0	-78.36	-51.0	27.36
		-47.0**	-83.62	-61.0	22.62
		-37.0	-81.97	-70.0	11.97
		-27.0	-82.09	-70.0	12.09
LTE Band 12 Downlink	729 - 746	-70.9	-74.53	-37.1	37.43
		-60.9	-79.44	-47.1	32.34
		-50.9	-81.89	-57.1	24.79
		-40.9**	-81.48	-67.1	14.38
		-30.9	-82.10	-70.0	12.10
		-20.9	-81.59	-70.0	11.59
	699 - 716	-74.5	-77.26	-33.5	43.76



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 12 Uplink		-64.5	-76.75	-43.5	33.25
		-54.5	-78.29	-53.5	24.79
		-44.5**	-79.89	-63.5	16.39
		-34.5	-79.63	-70.0	9.63
		-24.5	-80.67	-70.0	10.67
LTE Band 13 Downlink	746 - 756	-70.6	-76.95	-37.4	39.55
		-60.6	-75.13	-47.4	27.73
		-50.6	-76.29	-57.4	18.89
		-40.6	-75.12	-67.4	7.72
		-30.6	-75.51	-70.0	5.51
		-20.6	-75.57	-70.0	5.57
LTE Band 13 Uplink	777 - 787	-74.6	-72.75	-33.4	39.35
		-64.6	-73.24	-43.4	29.84
		-54.6	-72.85	-53.4	19.45
		-44.6**	-78.75	-63.4	15.35
		-34.6	-82.05	-70.0	12.05
		-24.6	-83.79	-70.0	13.79
LTE Band 25 Downlink	2110 - 2155	-72.3	-72.90	-35.7	37.20
		-62.3	-72.28	-45.7	26.58
		-52.3	-72.14	-55.7	16.44
		-42.3**	-72.04	-65.7	6.34
		-32.3	-80.21	-70.0	10.21
		-22.3	-80.72	-70.0	10.72
LTE Band 25 Uplink	1710 - 1755	-79.2	-78.19	-28.8	49.39
		-69.2	-77.72	-38.8	38.92
		-59.2	-78.87	-48.8	30.07
		-49.2**	-83.90	-58.8	25.10
		-39.2	-82.23	-68.8	13.43
		-29.2	-82.32	-70.0	12.32

** : Transmit Power off mode



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

Noise Response Time				
Band	Frequency (MHz)	Noise Response Time (Sec)	Limit (Sec)	Margin (Sec)
WCDMA Band 5 Downlink	869 - 894	0.425	3	2.575
WCDMA Band 5 Uplink	824 - 849	0.410	3	2.590
LTE Band 4 Downlink	2110 - 2155	0.440	3	2.560
LTE Band 4 Uplink	1710 - 1755	0.640	3	2.360
LTE Band 5 Downlink	869 - 894	0.462	3	2.538
LTE Band 5 Uplink	824 - 849	0.412	3	2.588
LTE Band 12 Downlink	729 - 746	0.405	3	2.595
LTE Band 12 Uplink	699 - 716	0.435	3	2.565
LTE Band 13 Downlink	746 - 756	N/A*	-	-
LTE Band 13 Uplink	777 - 787	0.425	3	2.575
LTE Band 25 Downlink	1930 - 1995	0.440	3	2.560
LTE Band 25 Uplink	1850 - 1915	0.410	3	2.590

N/A*: Not Applicable. Maximum Noise always complies with Noise Limit requirement. There is no noise limit change during testing.



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2.8 Uplink Inactivity

2.8.1 Specification Reference

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(J)
KDB935210 D04, Clause 7.8

2.8.2 Standard Applicable

FCC 47 CFR Part 20. Clause 20.21(e)(9)(i)(J) Uplink Inactivity:

Uplink Inactivity. When a consumer booster is not serving an active device connection after 5 seconds the uplink noise power shall not exceed -70 dBm/MHz.

2.8.3 Equipment Under Test and Modification State

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

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

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

2.8.5 Test Equipment Used

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

2.8.6 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

2.8.7 Additional Observations

- This is conducted Test.
- Test procedure is per Section 7.8 of KDB935210 (D04 Provider Specific Booster Measurements v02r03). Appropriate offset (line losses) applied.
- The EUT operated in Normal Mode with a minimum bandwidth setting (5MHz).
- Setup the EUT according to Figure 1 of Section 6.3.2 of KDB935210.
- Evaluations are conducted at NU antenna ports.
- Operational uplink bands for WCDMA Band 5 and LTE Band 4, 12, 13, 25, were tested.
- Signal: 5MHz WCDMA or LTE.



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2.8.8 Test Results

Uplink Inactivity				
Band	Frequency (MHz)	UL Inactive Time (Sec)	Limit (Sec)	Margin (Sec)
WCDMA Band 5 Port A	836.6	1.40	5.0	3.60
LTE Band 4 Port A	1732.5	1.44	5.0	3.56
LTE Band 4 Port B	1732.5	1.47	5.0	3.53
LTE Band 4 Port C	1732.5	1.59	5.0	3.41
LTE Band 12 Port A	707.5	1.67	5.0	3.33
LTE Band 12 Port B	707.5	1.46	5.0	5.54
LTE Band 13 Port C	782	1.38	5.0	3.62
LTE Band 25 Port A	1882.5	1.53	5.0	3.47
LTE Band 25 Port B	1882.5	1.44	5.0	3.56
LTE Band 25 Port C	1882.5	1.77	5.0	3.23
LTE Band 25 Port D	1882.5	1.38	5.0	3.62
WCDMA Band 5 Port A	836.6	1.40	5.0	3.60
LTE Band 4 Port A	1732.5	1.44	5.0	3.56



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2.8.9 Sample test Plots





FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 5 Uplink 5MHz Bandwidth Mid Channel on NU Port D



12:48:43 25.10.2019

LTE Band 12 Uplink 5MHz Bandwidth Mid Channel on NU Port A

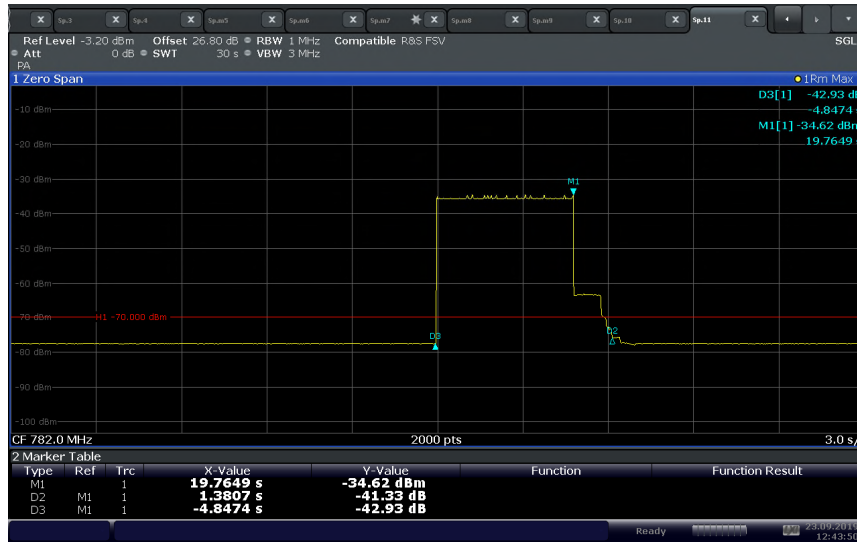


11:20:06 23.09.2019



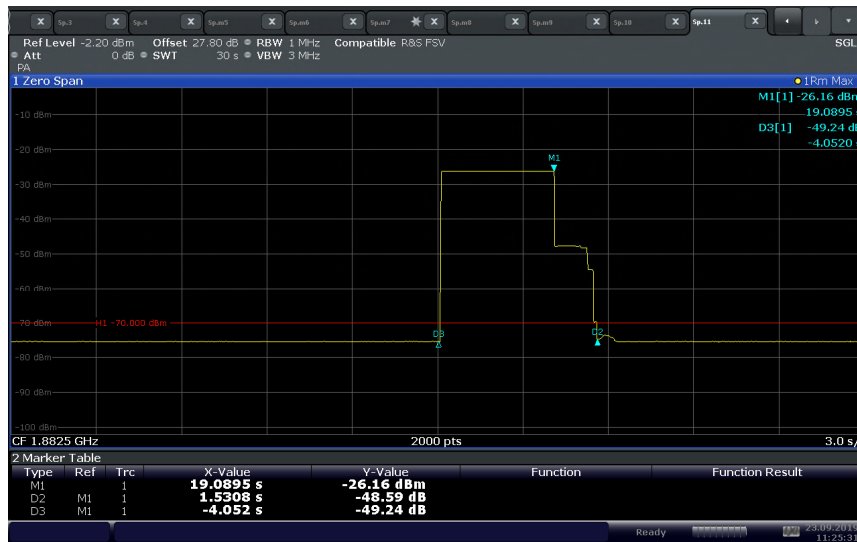
FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 13 Uplink 5MHz Bandwidth Mid Channel on NU Port C



12:43:50 23.09.2019

LTE Band 25 Uplink 5MHz Bandwidth Mid Channel on NU Port A



11:25:32 23.09.2019



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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 and 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: 110222000051 and 481222000175 / 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: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

2.9.9 Test Results Plots





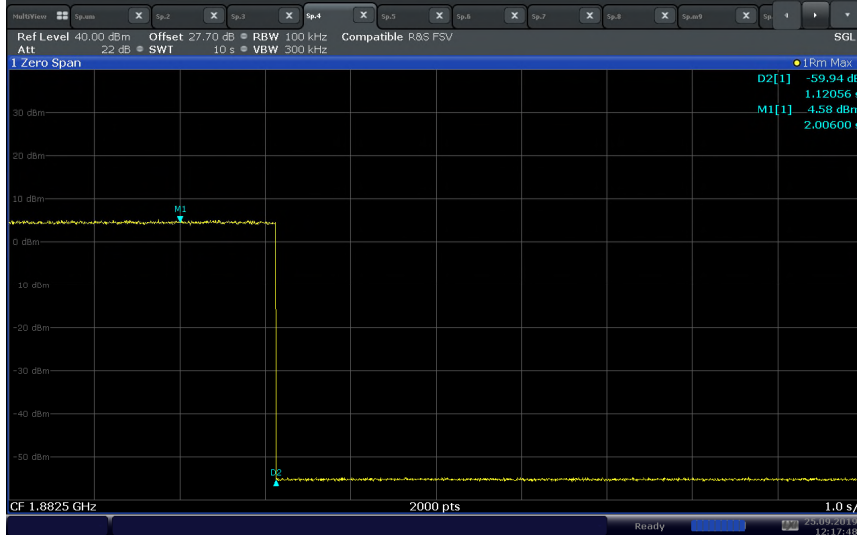
Product Service

FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU



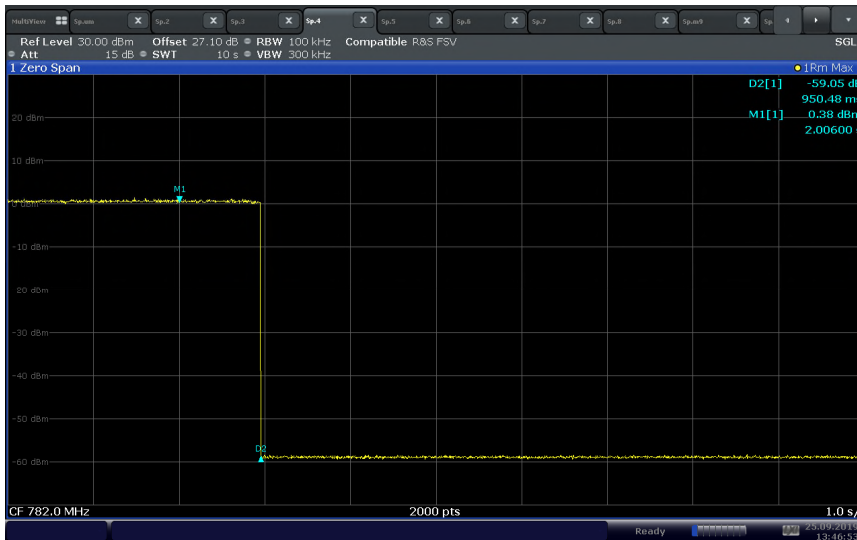
FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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

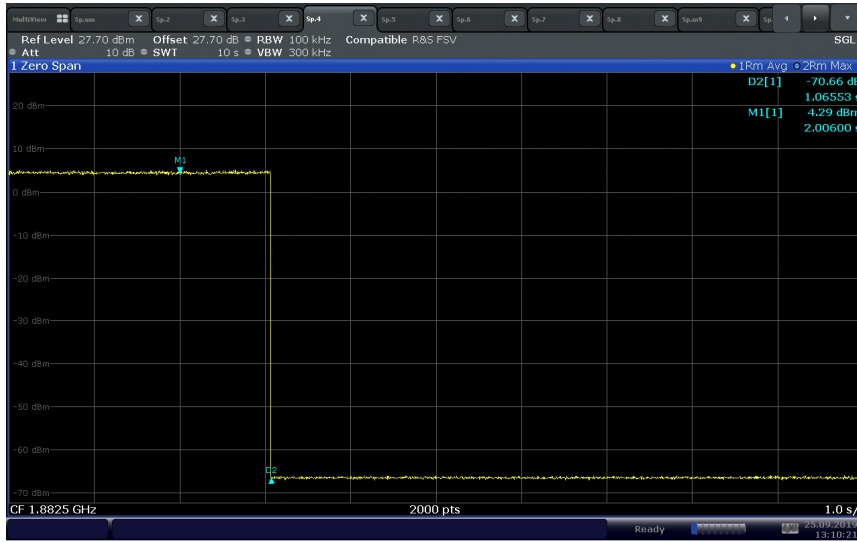


13:46:54 25.09.2019



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

LTE Band 25 Uplink Gain Timing_5MHz Bandwidth Mid Channel



13:10:22 25.09.2019



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: 110222000051 and 481222000175 / 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.



Product Service

FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

- 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 as the representative configuration.



FCC ID: NU: YETQ44-1M34CNU and CU: YETQ41-RECU
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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



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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



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 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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: YETQ44-1M34CNU and CU: YETQ41-RECU
 IC: NU: 9892A-Q441M34CNU and CU: 9892A-Q41RECU

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