

EMC EQUIPMENT LIST

Device	Manufacturer	Model	SN	Calibrati on Date	Cal Due Date
EMI Test Receiver R & S ESU 40 firmware v 4.43 SP 3 BIOS v5.1-24-3	Rohde & Schwarz	ESU 40	100320	08/28/18	08/28/20
Software: Field Strength Program	Timco	N/A	Version 4.10.7.0	N/A	N/A
Coaxial Cable - Chamber 3 cable set (backup)	Micro-Coax	Chamber 3 cable set (backup)	KMKM-0244-02 KMKM-0670-01 KFKF-0197-00	02/27/19	02/27/21
CHAMBER	Panashield	3M	N/A	03/15/19	03/15/21
Antenna: Active Loop	ETS-Lindgren	6502	00062529	12/11/17	12/11/20
Antenna: Biconical 1057	Eaton	94455-1	1057	12/13/17	12/13/20
Antenna: Log-Periodic 1243	Electro-Metrics	96005	1243	04/20/18	04/20/21
Ant: Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	02/25/20	02/25/23
Noise Source 10 MHz – 18 GHz	Agilent	346B	MY44421884	n/a	n/a
Splitter 1-1000MHz	Mini-Circuits	ZFSC-4-1- BNC+	U115700825	11/19/17	11/19/20

ANNEX I – MANUFACTURER-PROVIDED INFORMATION

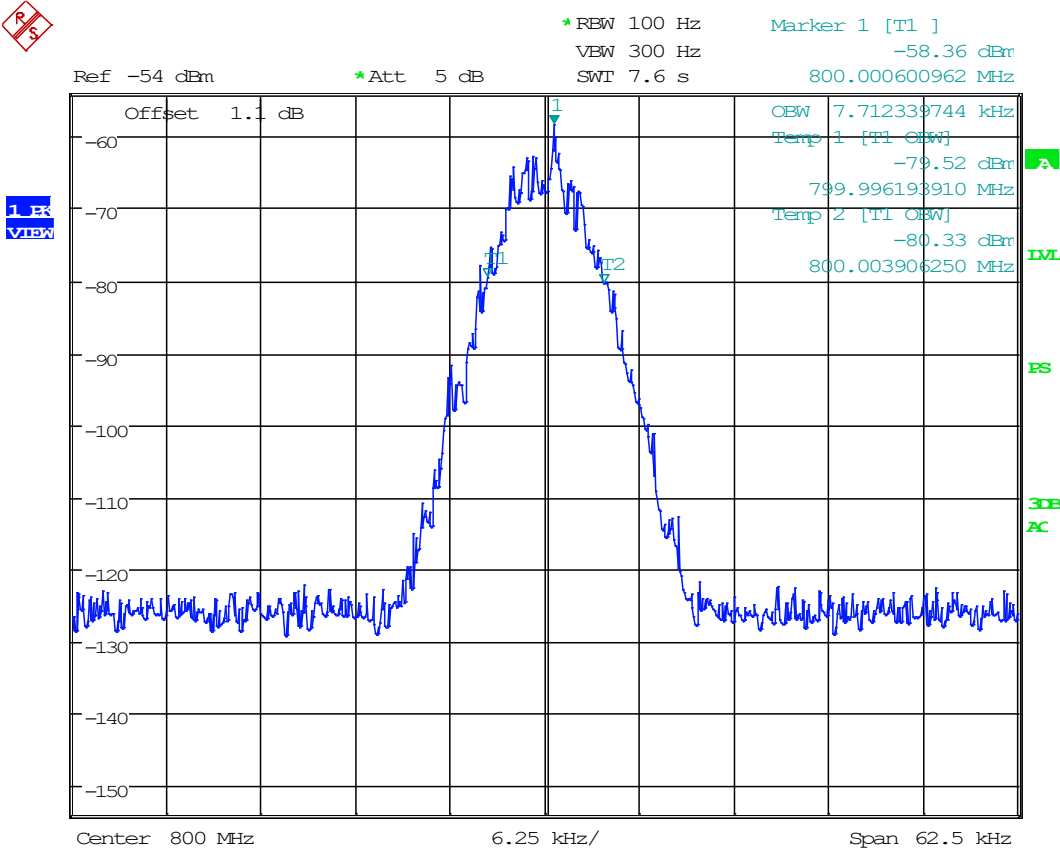
Note: The accuracy and precision of the following information provided by the manufacturer of the equipment under test has not been verified using test methods, cannot be verified, or is not necessary to verify.

N/A

ANNEX II – MEASUREMENT DATA

KDB 935210 4.1 INPUT SIGNALS

8K10F1E/F1D (P25 Phase I C4FM Voice, Data)

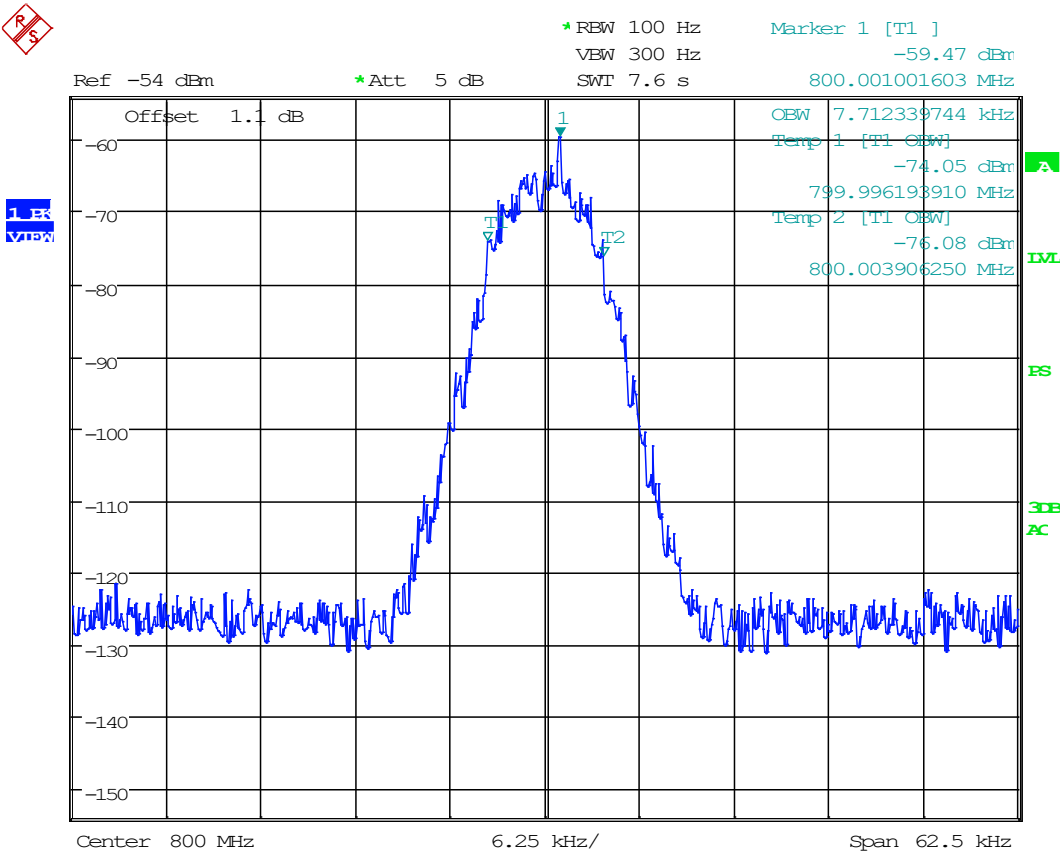


Date: 30.JAN.2019 14:28:58

Occupied Bandwidth: 7.71 kHz

KDB 935210 4.1 INPUT SIGNALS

8K10F1W (P25 Phase II H-CPM Voice & Data)

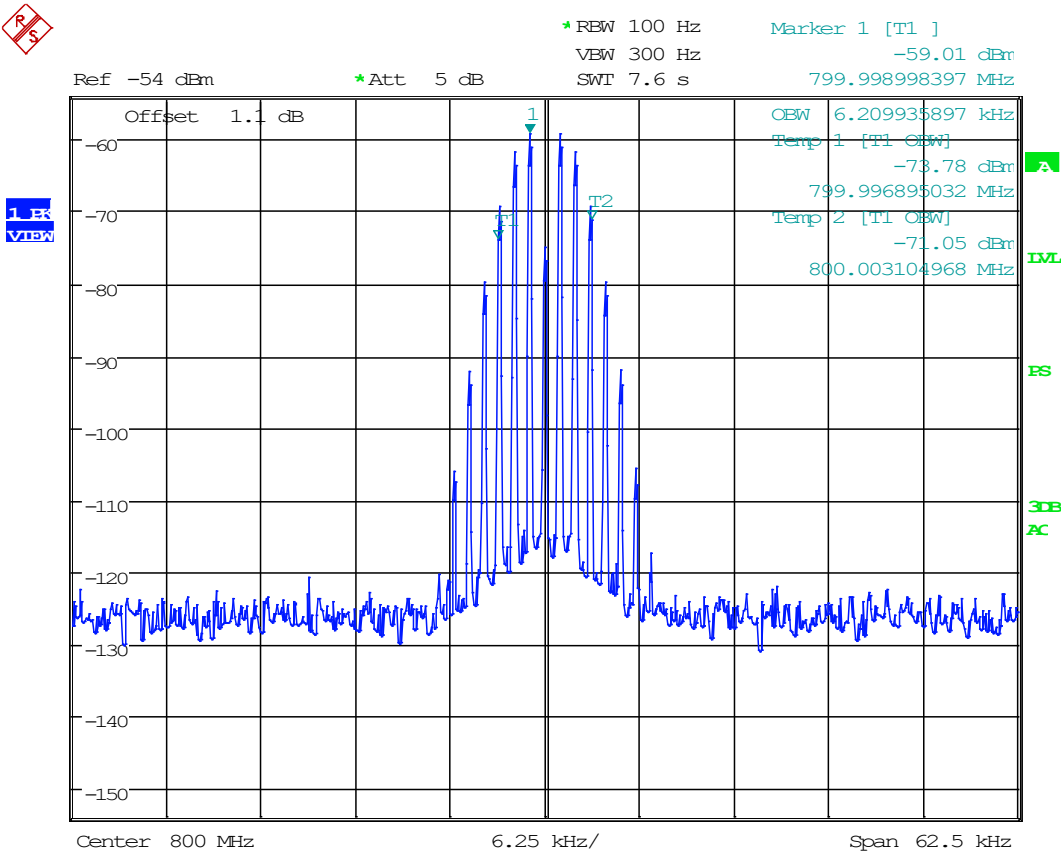


Date: 30.JAN.2019 14:30:47

Occupied Bandwidth: 7.71 kHz

KDB 935210 4.1 INPUT SIGNALS

11K3F3E (Narrowband Analog FM Voice)

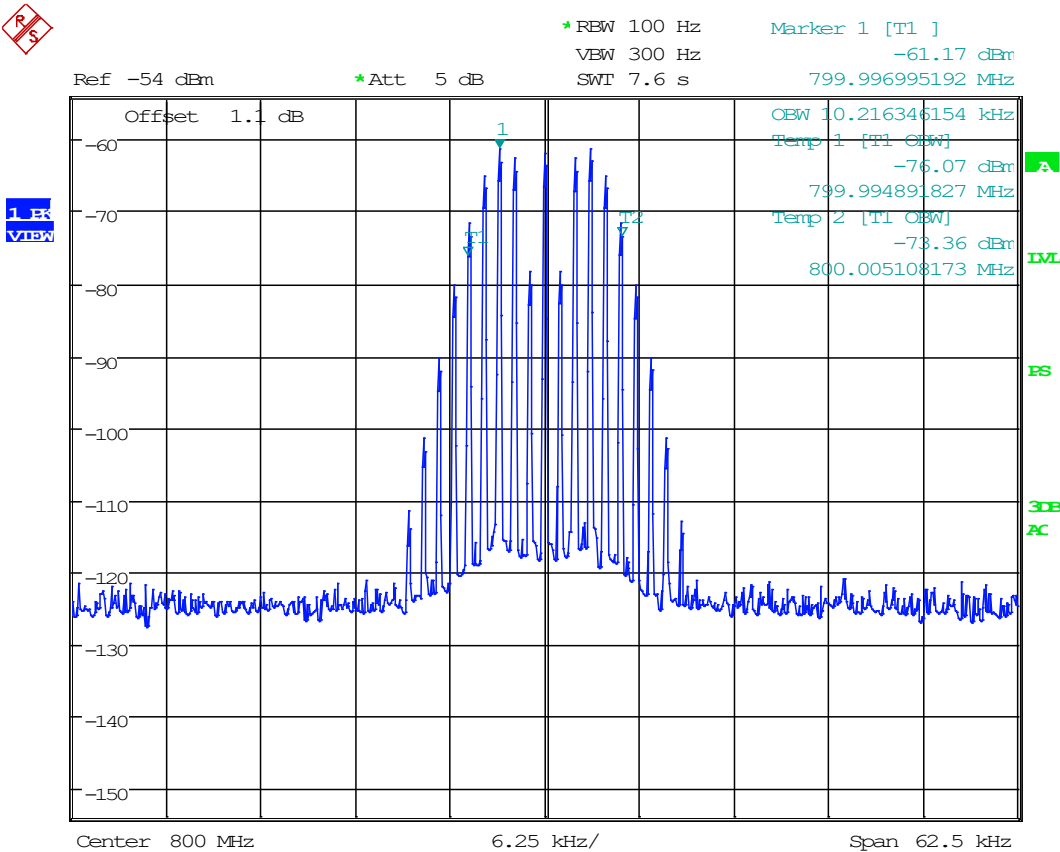


Date: 30.JAN.2019 14:19:45

Occupied Bandwidth: 6.21 kHz

KDB 935210 4.1 INPUT SIGNALS

16K0F3E (Wideband Analog FM Voice)



Date: 30.JAN.2019 14:23:14

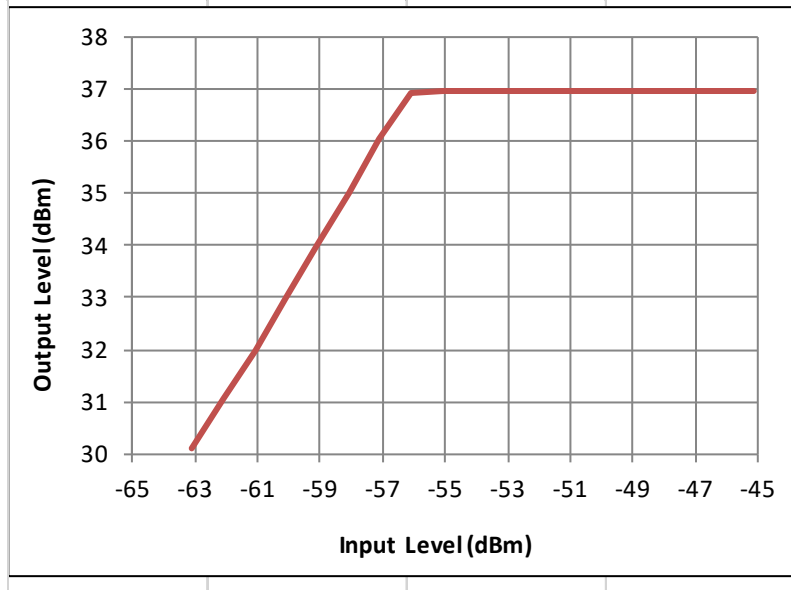
Occupied Bandwidth: 10.22 kHz

KDB 935210 4.2 AGC THRESHOLD

Test Engineer: FR
 Test Date: AUG 3 2020

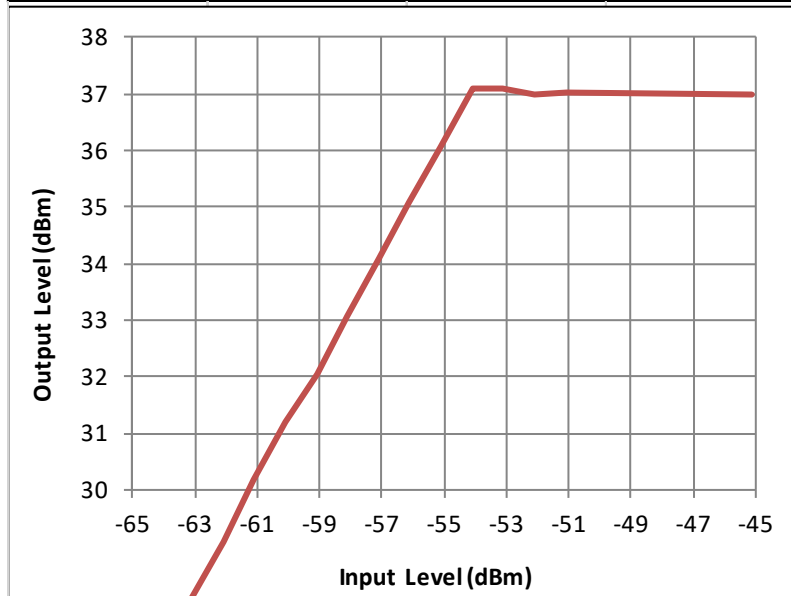
700 MHz Band, Downlink

INPUT (dBm)	CORRECTED INPUT (dBm)	CORRECTED OUTPUT (dBm)	GAIN (dB)
-57	-63.1	30.1	93.2
-56	-62.1	31.08	93.2
-55	-61.1	31.99	93.1
-54	-60.1	32.97	93.1
-53	-59.1	34.02	93.1
-52	-58.1	34.99	93.1
-51	-57.1	36.05	93.2
-50	-56.1	36.92	93.0
-49	-55.1	36.97	92.1
-48	-54.1	36.96	91.1
-47	-53.1	36.97	90.1
-39	-45.1	36.97	82.1



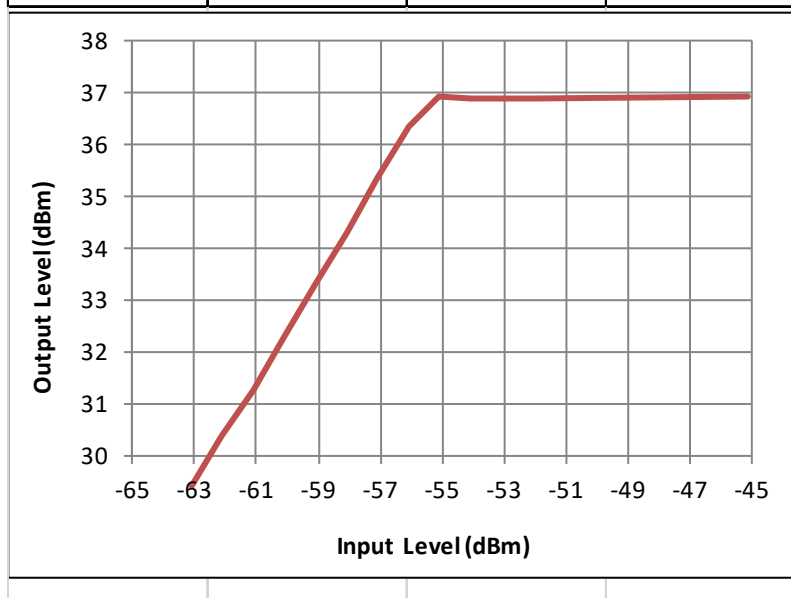
AGC Level**700 MHz Band, Uplink**

INPUT (dBm)	CORRECTED INPUT (dBm)	CORRECTED OUTPUT (dBm)	GAIN (dB)
-57	-63.1	28.08	91.2
-56	-62.1	29.08	91.2
-55	-61.1	30.18	91.3
-54	-60.1	31.18	91.3
-53	-59.1	32.05	91.2
-52	-58.1	33.07	91.2
-51	-57.1	34.08	91.2
-50	-56.1	35.09	91.2
-49	-55.1	36.07	91.2
-48	-54.1	37.08	91.2
-47	-53.1	37.09	90.2
-46	-52.1	37	89.1
-45	-51.1	37.01	88.1
-39	-45.1	37	82.1



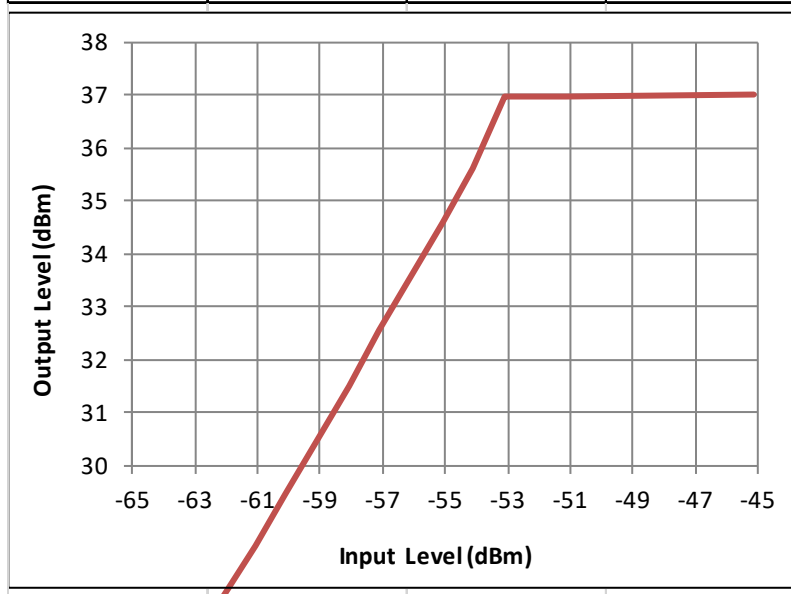
AGC Level**800 MHz Band, Uplink**

INPUT (dBm)	CORRECTED INPUT (dBm)	CORRECTED OUTPUT (dBm)	GAIN (dB)
-57	-63.1	29.4	92.5
-56	-62.1	30.39	92.5
-55	-61.1	31.28	92.4
-54	-60.1	32.27	92.4
-53	-59.1	33.31	92.4
-52	-58.1	34.33	92.4
-51	-57.1	35.34	92.4
-50	-56.1	36.36	92.5
-49	-55.1	36.92	92.0
-48	-54.1	36.9	91.0
-47	-53.1	36.9	90.0
-46	-52.1	36.9	89.0
-39	-45.1	36.94	82.0



AGC Level**800 MHz Band, Downlink**

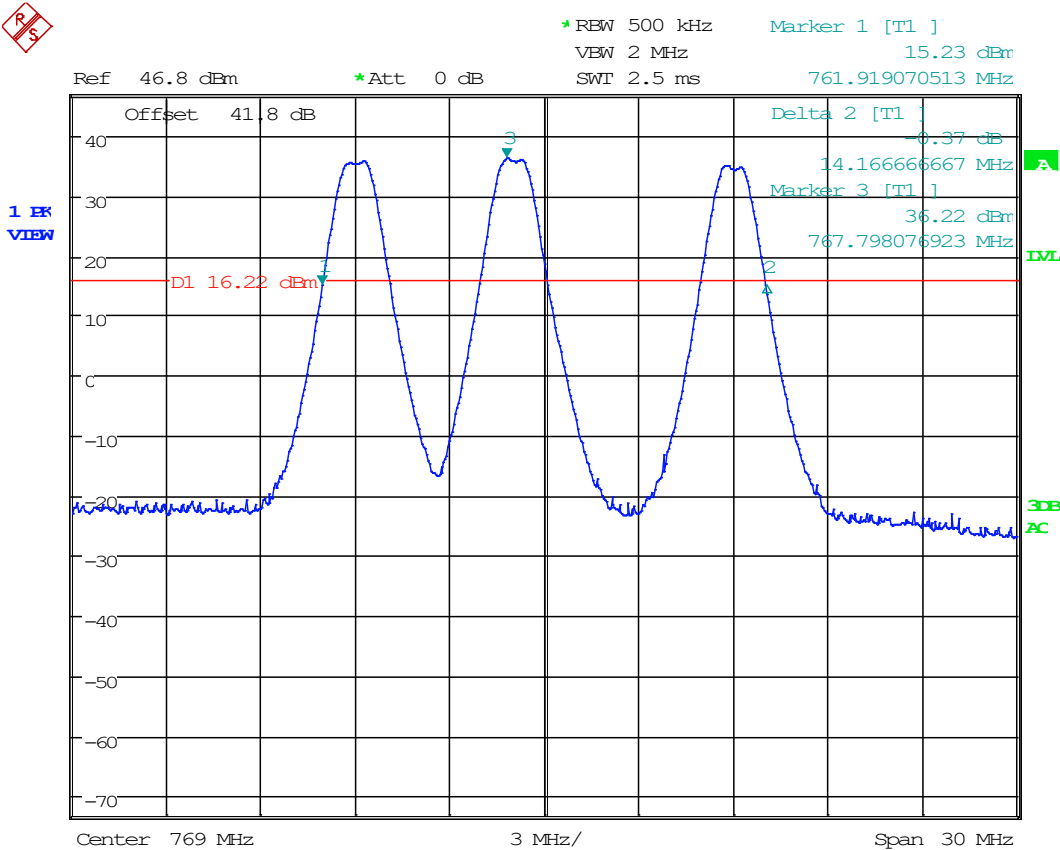
INPUT (dBm)	CORRECTED INPUT (dBm)	CORRECTED OUTPUT (dBm)	GAIN (dB)
-57	-63.1	26.53	89.6
-56	-62.1	27.53	89.6
-55	-61.1	28.48	89.6
-54	-60.1	29.48	89.6
-53	-59.1	30.5	89.6
-52	-58.1	31.52	89.6
-51	-57.1	32.55	89.7
-50	-56.1	33.57	89.7
-49	-55.1	34.6	89.7
-48	-54.1	35.6	89.7
-47	-53.1	36.99	90.1
-46	-52.1	36.98	89.1
-45	-51.1	36.99	88.1
-39	-45.1	37	82.1



KDB 935210 4.3 OUT OF BAND REJECTION

Test Engineer: FR
Test Date: JUL 30 2020

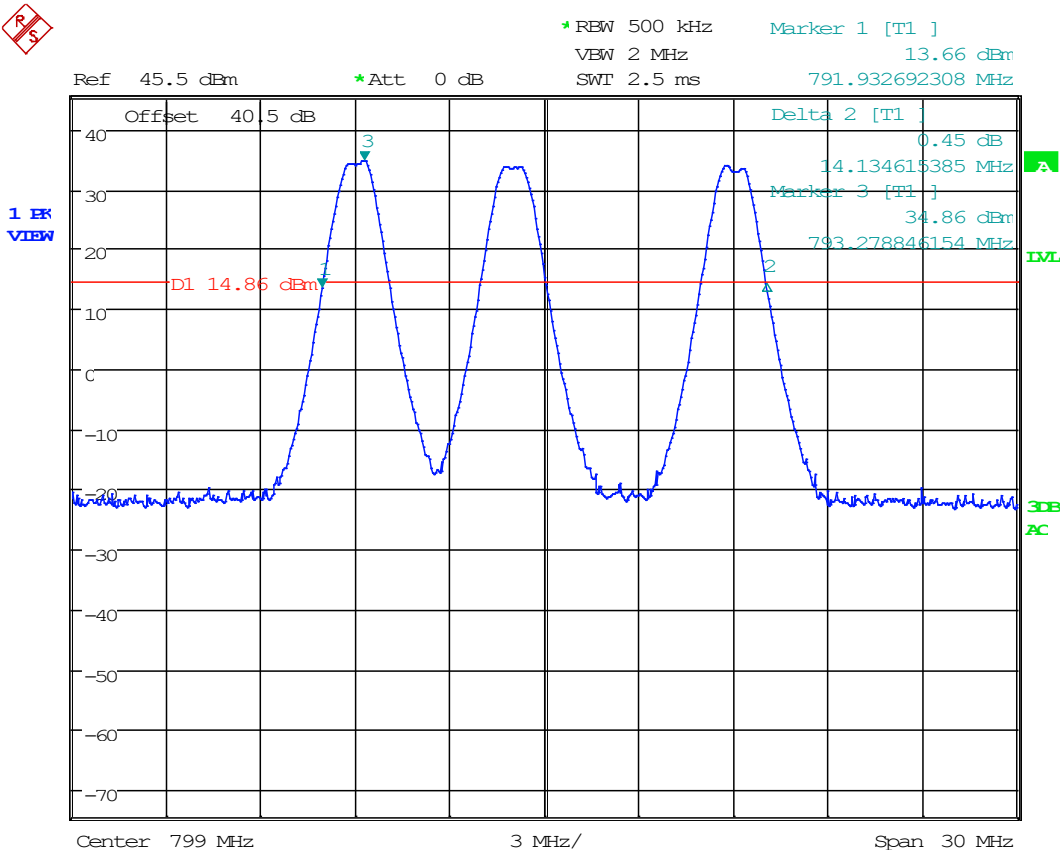
700 MHz Band, Downlink



Date: 30.JUL.2020 14:25:11

Out of Band Rejection

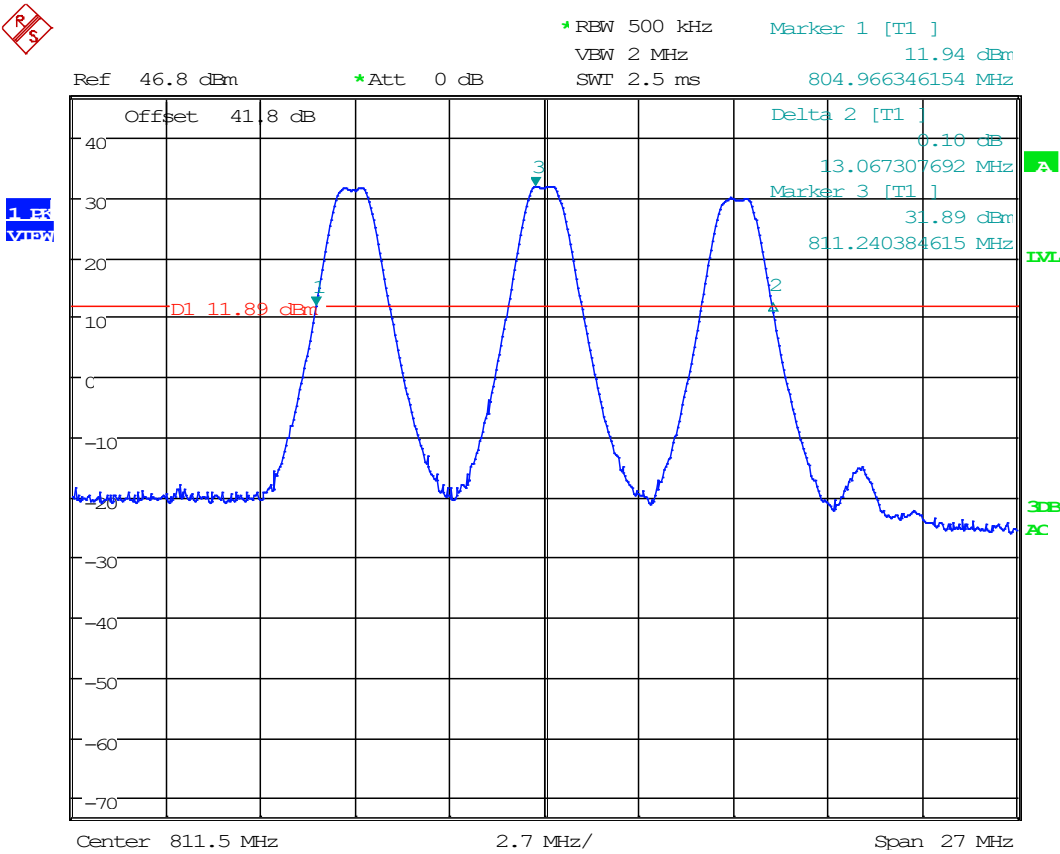
700 MHz Band, Uplink



Date: 30.JUL.2020 11:26:32

Out of Band Rejection

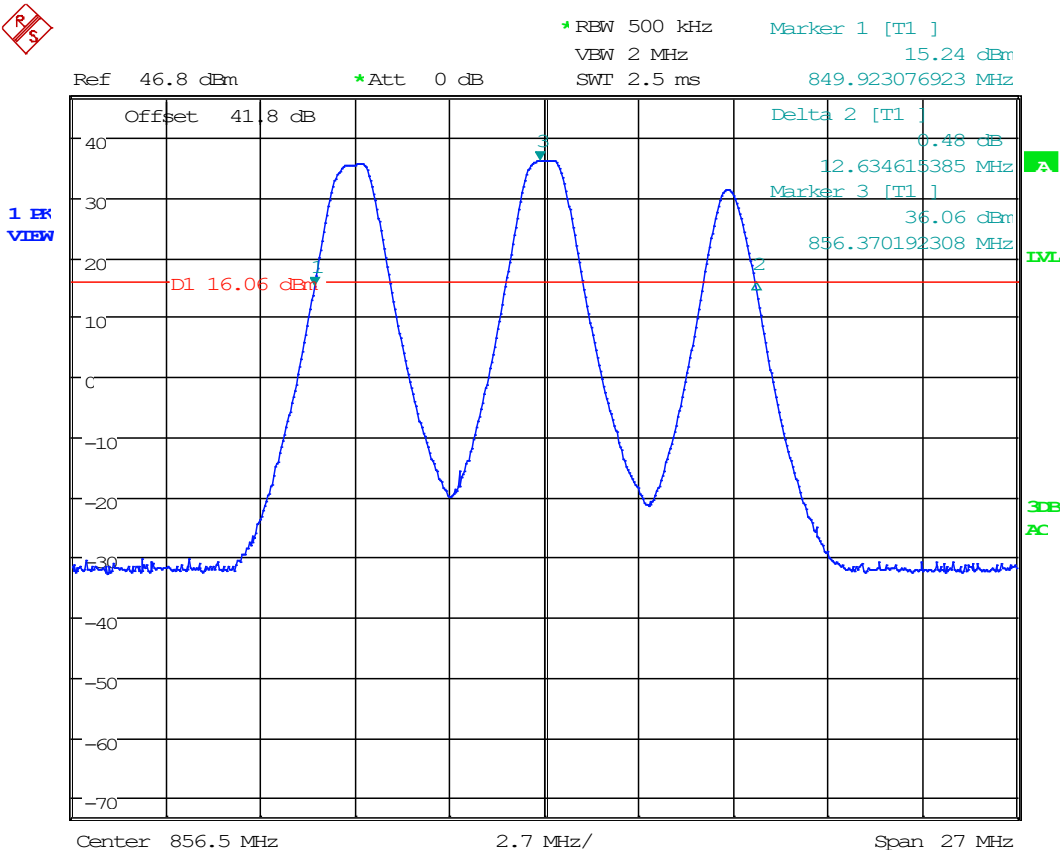
800 MHz Band, Uplink



Date: 29.JUL.2020 19:32:04

Out of Band Rejection

800 MHz Band, Downlink



Date: 31.JUL.2020 13:49:15

2.1046 RF POWER OUTPUT**KDB 935210 4.5 RF POWER OUTPUT & GAIN**

Test Engineer: FR
 Test Date: AUG 3 2020

Frequency	AGC Level	Input (dBm)	Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Gain (dB)	Output ERP (W)
768.0125	AGC	-56.10	36.92	0.00	0.00	93.0	4.92
768.0125	AGC +3	-53.10	36.97	0.00	0.00	90.1	4.98
768.0125	Saturation	-45.10	36.97	0.00	0.00	82.1	4.98
798.0125	AGC	-54.1	37.08	0.00	0.09	91.2	5.00
798.0125	AGC +3	-51.1	37.01	0.00	0.02	88.1	5.00
798.0125	Saturation	-45.10	37	0.00	0.01	82.1	5.00
811.5	AGC	-57.04	36.92	0.00	0.00	94.0	4.92
811.5	AGC +3	-54.04	36.9	0.00	0.00	90.9	4.90
811.5	Saturation	-47.04	36.94	0.00	0.00	84.0	4.94
856.50	AGC	-54.1	36.98	0.00	0.00	91.1	4.99
856.50	AGC +3	-51.1	36.99	0.00	0.00	88.1	5.00
856.50	Saturation	-45.10	37	0.00	0.01	82.1	5.00

Rated Power Output = 36.99.00 dBm (5 W)**Max Gain = 94 dB**

KDB 935210 4.6 NOISE FIGURE

Test Engineer: FR
 Test Date: AUG 3 2020

700 MHz Band, Downlink

FCC KDB 935210 S. 4.6, ISSED RSS-131 S. 6.4 - NOISE FIGURE	
Measurement Freq. (MHz)	768.0125
Noise Source ENR (dB)	15.0684
Noise Source T_s^{OFF} , T_O (K)	290
Noise Source T_s^{ON} (K)	9606.0841
Noise Source Cal N_2^{off} (dB)	-128
Noise Source Cal N_2^{off} (pW)	0.00016
Noise Source Cal N_2^{on} (dB)	-121.68
Noise Source Cal N_2^{on} (pW)	0.00068
Calibration Ratio Y_2	4.2855
Calibration T_2	2545.5276
Noise + EUT N_{12}^{off} (dB)	-37.79
Noise + EUT N_{12}^{off} (pW)	166341.27
Noise + EUT N_{12}^{on} (dB)	-26.01
Noise + EUT N_{12}^{on} (pW)	2506109.25
Noise + EUT Ratio Y_{12}	15.0661
Noise + EUT T_{12}	372.3089
Gain (Ratio)	4493381356.9433
Gain (dB)	96.5257
2nd Stage Correction T_1	372.308922035344
Noise Factor F	2.28382
Noise Figure (dB)	3.59
Limit (dB)	9.00
Margin (dB)	5.41

Noise Figure

700 MHz Band, Uplink

FCC KDB 935210 S. 4.6, ISSED RSS-131 S. 6.4 - NOISE FIGURE	
Measurement Freq. (MHz)	798.0125
Noise Source ENR (dB)	15.0647
Noise Source T_s^{OFF} , T_O (K)	290
Noise Source T_s^{ON} (K)	9598.2220
Noise Source Cal N_2^{off} (dB)	-127.1
Noise Source Cal N_2^{off} (pW)	0.00019
Noise Source Cal N_2^{on} (dB)	-122.36
Noise Source Cal N_2^{on} (pW)	0.00058
Calibration Ratio Y_2	2.9785
Calibration T_2	4414.6473
Noise + EUT N_{12}^{off} (dB)	-37.83
Noise + EUT N_{12}^{off} (pW)	164816.24
Noise + EUT N_{12}^{on} (dB)	-23.45
Noise + EUT N_{12}^{on} (pW)	4518559.44
Noise + EUT Ratio Y_{12}	27.4157
Noise + EUT T_{12}	62.3741
Gain (Ratio)	11285560899.2676
Gain (dB)	100.5252
2nd Stage Correction T_1	62.374054780740
Noise Factor F	1.21508
Noise Figure (dB)	0.85
Limit (dB)	9.00
Margin (dB)	8.15

Noise Figure

800 MHz Band, Uplink

FCC KDB 935210 S. 4.6, ISSED RSS-131 S. 6.4 - NOISE FIGURE	
Measurement Freq. (MHz)	811.5
Noise Source ENR (dB)	15.0630
Noise Source T_s^{OFF}, T_O (K)	290
Noise Source T_s^{ON} (K)	9594.6895
Noise Source Cal N_2^{off} (dB)	-122.58
Noise Source Cal N_2^{off} (pW)	0.00055
Noise Source Cal N_2^{on} (dB)	-117.94
Noise Source Cal N_2^{on} (pW)	0.00161
Calibration Ratio Y_2	2.9107
Calibration T_2	4579.7368
Noise + EUT N_{12}^{off} (dB)	-35.54
Noise + EUT N_{12}^{off} (pW)	279254.38
Noise + EUT N_{12}^{on} (dB)	-24.75
Noise + EUT N_{12}^{on} (pW)	3349654.39
Noise + EUT Ratio Y_{12}	11.9950
Noise + EUT T_{12}	556.2661
Gain (Ratio)	2910707493.6920
Gain (dB)	94.6400
2nd Stage Correction T_1	556.266067690941
Noise Factor F	2.91816
Noise Figure (dB)	4.65
Limit (dB)	9.00
Margin (dB)	4.35

Noise Figure

800 MHz Band, Downlink

FCC KDB 935210 S. 4.6, ISSED RSS-131 S. 6.4 - NOISE FIGURE	
Measurement Freq. (MHz)	856.5
Noise Source ENR (dB)	15.0575
Noise Source T_s^{OFF}, T_O (K)	290
Noise Source T_s^{ON} (K)	9582.9133
Noise Source Cal N_2^{off} (dB)	-126.58
Noise Source Cal N_2^{off} (pW)	0.00022
Noise Source Cal N_2^{on} (dB)	-119.29
Noise Source Cal N_2^{on} (pW)	0.00118
Calibration Ratio Y_2	5.3580
Calibration T_2	1842.3967
Noise + EUT N_{12}^{off} (dB)	-39.51
Noise + EUT N_{12}^{off} (pW)	111943.79
Noise + EUT N_{12}^{on} (dB)	-27.78
Noise + EUT N_{12}^{on} (pW)	1667247.21
Noise + EUT Ratio Y_{12}	14.8936
Noise + EUT T_{12}	378.8624
Gain (Ratio)	1623795124.9128
Gain (dB)	92.1053
2nd Stage Correction T_1	378.862361583713
Noise Factor F	2.30642
Noise Figure (dB)	3.63
Limit (dB)	9.00
Margin (dB)	5.37

2.1047 AUDIO FREQUENCY RESPONSE

2.1047 LOW PASS FILTER RESPONSE

Test Engineer: _____

Test Date: _____

N/A. Device does not accept audio input.

2.1047 MODULATION LIMITING

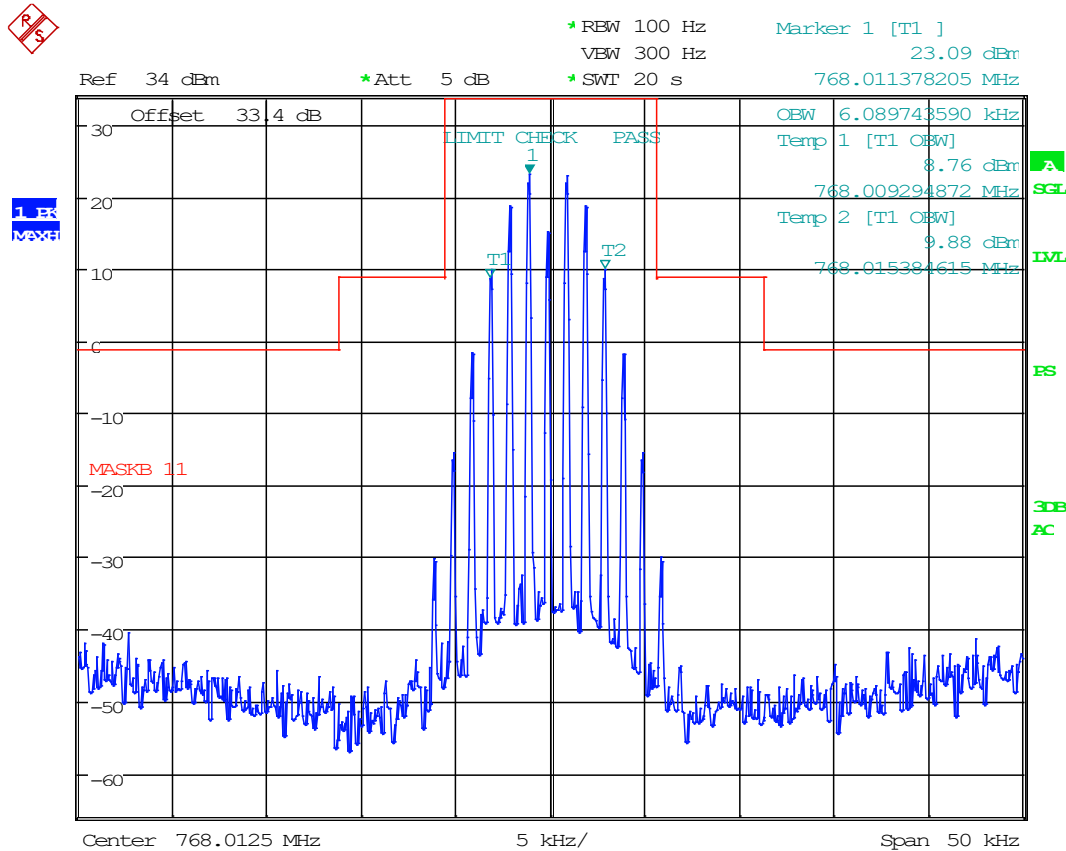
Test Engineer: _____

Test Date: _____

N/A. Device does not have means to limit modulation.

90.209 OCCUPIED BANDWIDTH**90.210 EMISSION MASKS****KDB 935210 4.4 INPUT VS OUTPUT COMPARISON**

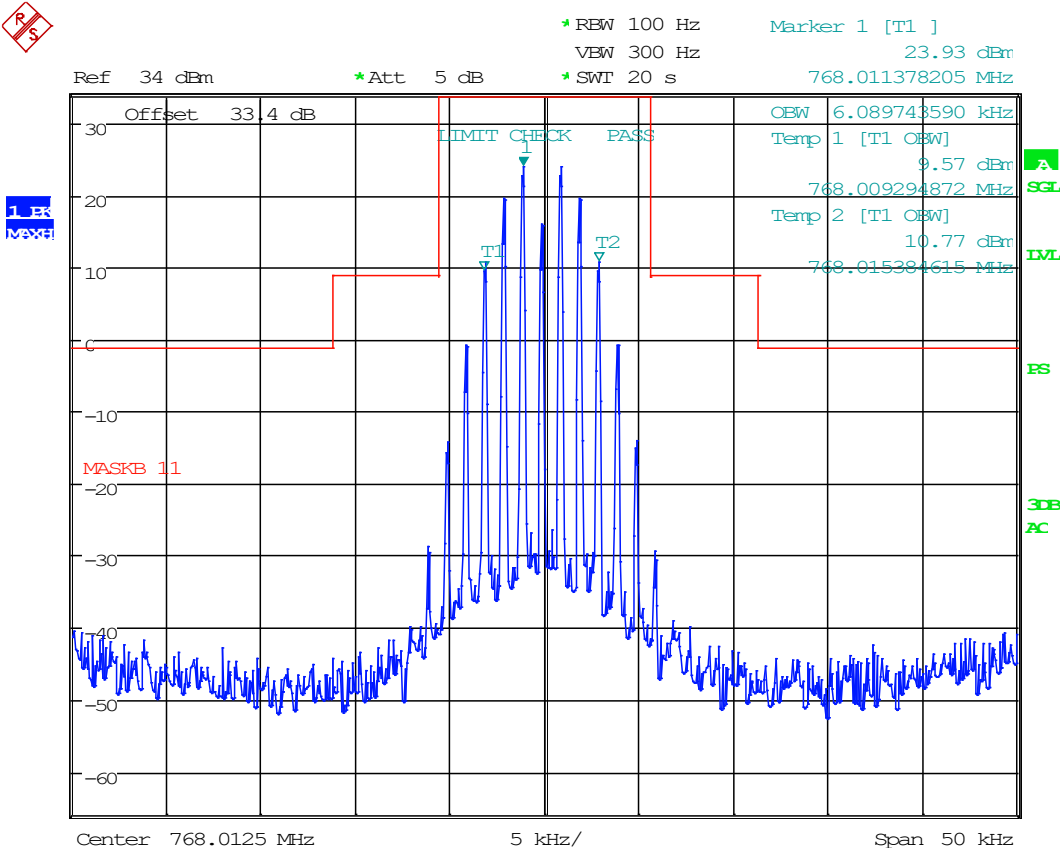
Test Engineer: FR
 Test Date: JUL 30 2020

700 MHz Band, Downlink, 12.5k FM, AGC

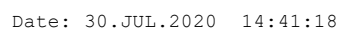
Date: 30.JUL.2020 14:38:48

EMISSION MASK & IVO

700 MHz Band, Downlink, 12.5k FM, AGC +3 dB

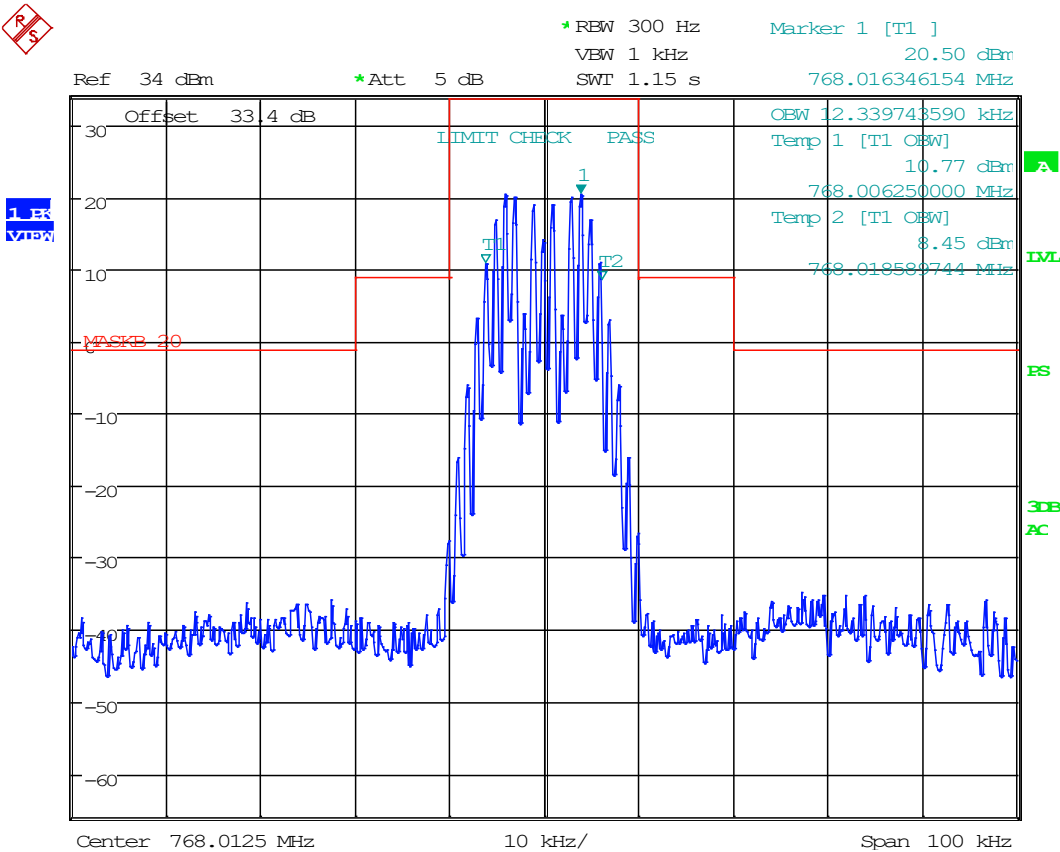


Date: 30.JUL.2020 14:39:34



EMISSION MASK & IVO

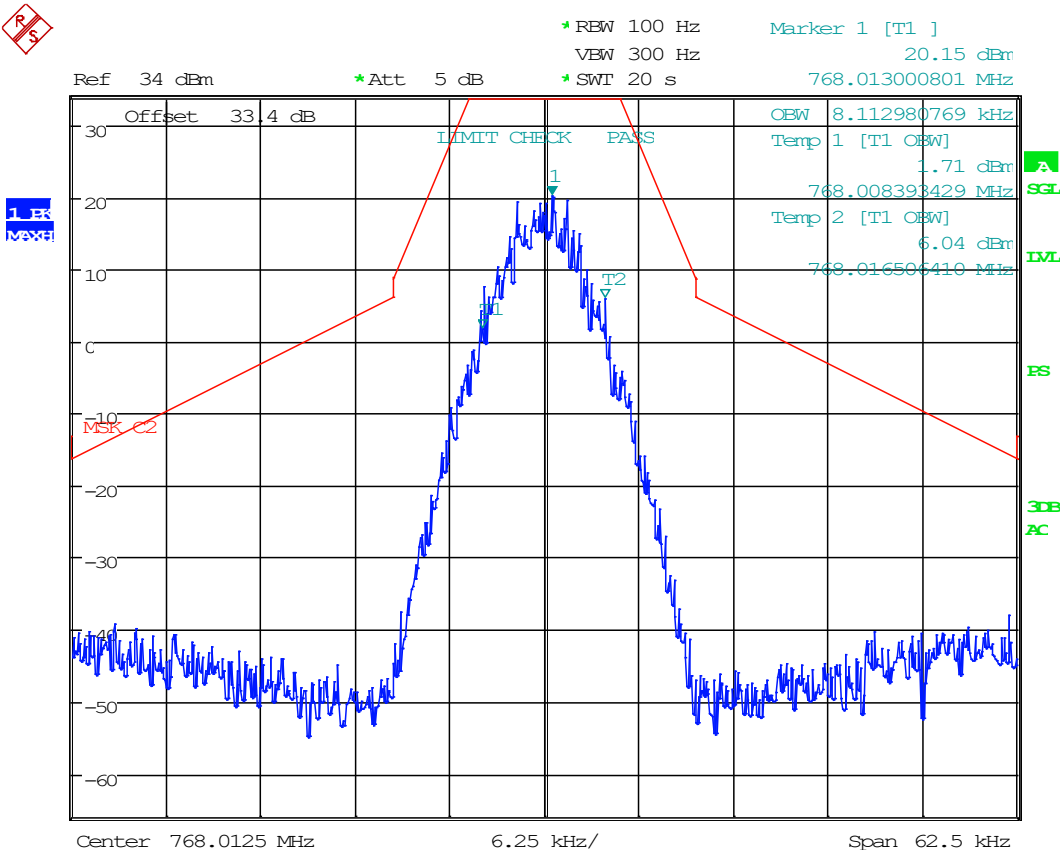
700 MHz Band, Downlink, 25k FM, AGC +3 dB



Date: 30.JUL.2020 14:40:49

EMISSION MASK & IVO

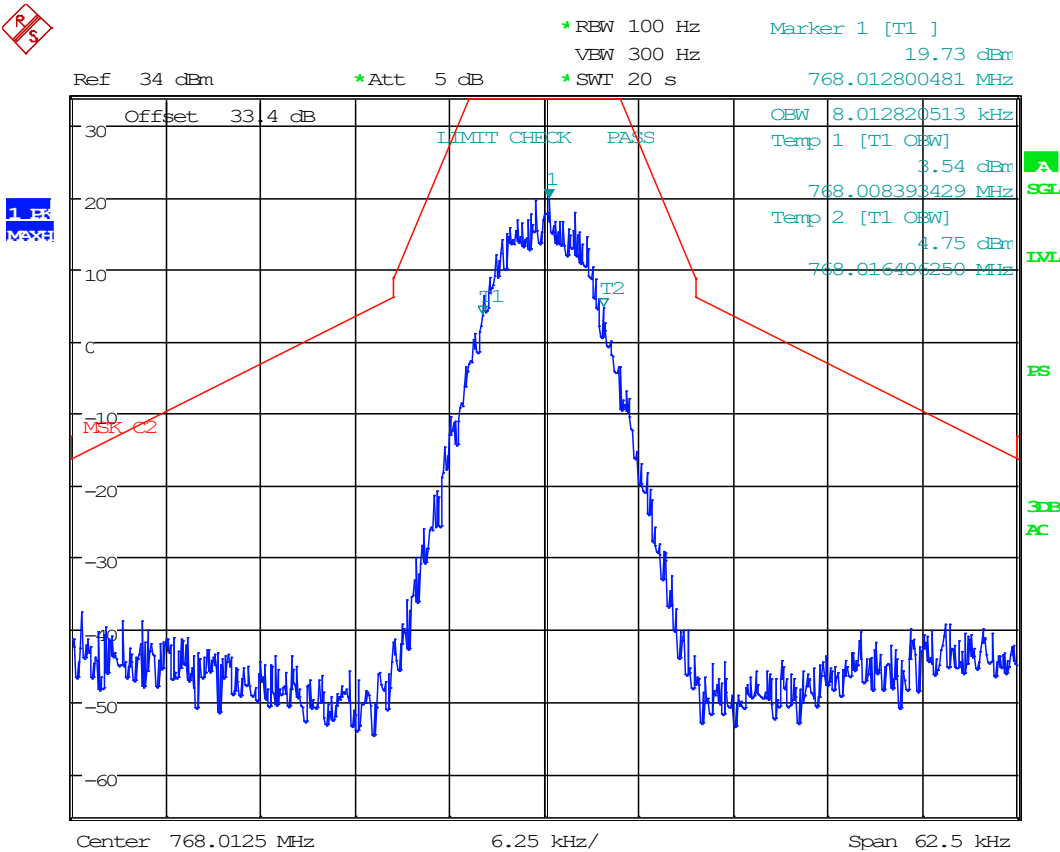
700 MHz Band, Downlink, C4FM, AGC



Date: 30.JUL.2020 14:33:32

EMISSION MASK & IVO

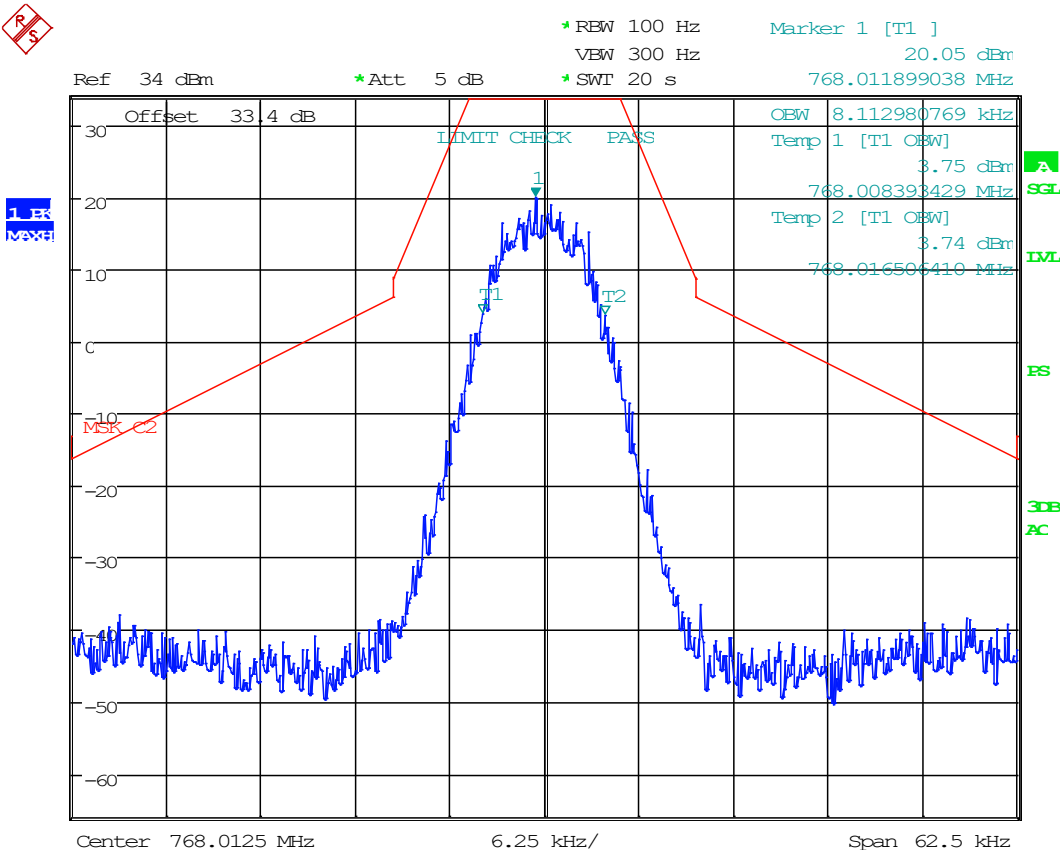
700 MHz Band, Downlink, H-CPM, AGC



Date: 30.JUL.2020 14:35:46

EMISSION MASK & IVO

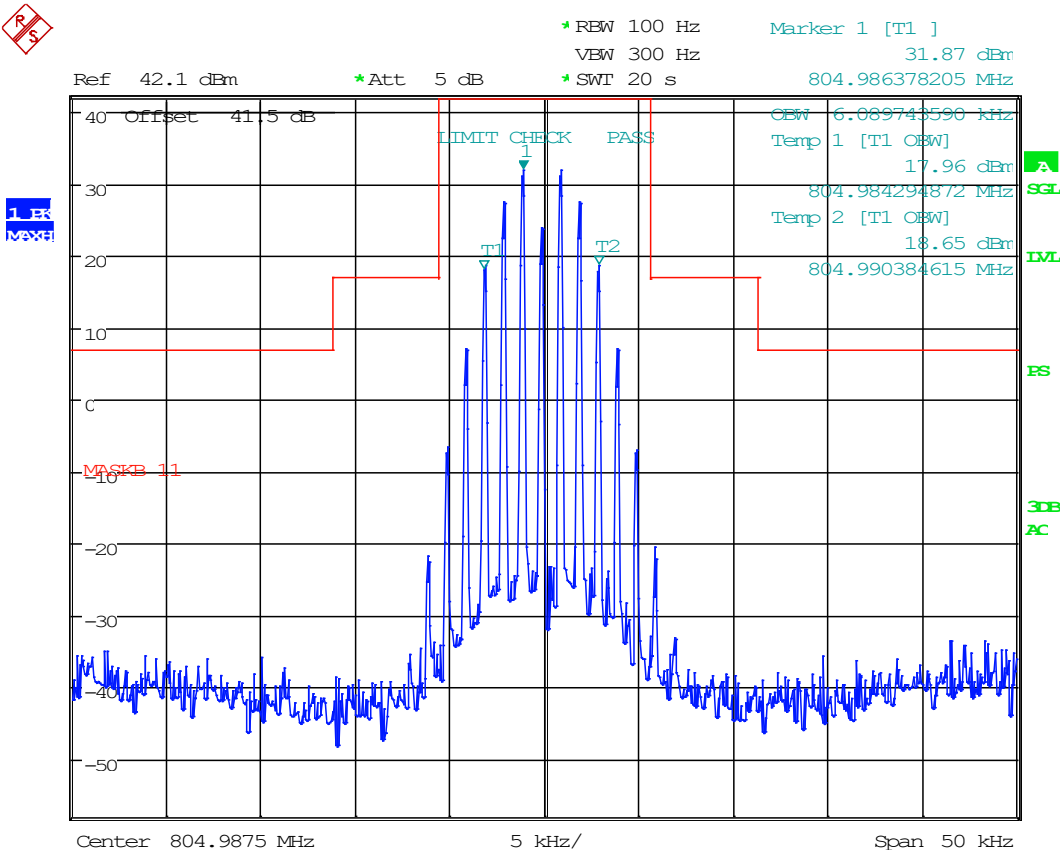
700 MHz Band, Downlink, H-CPM, AGC +3 DB



Date: 30.JUL.2020 14:35:04

EMISSION MASK & IVO

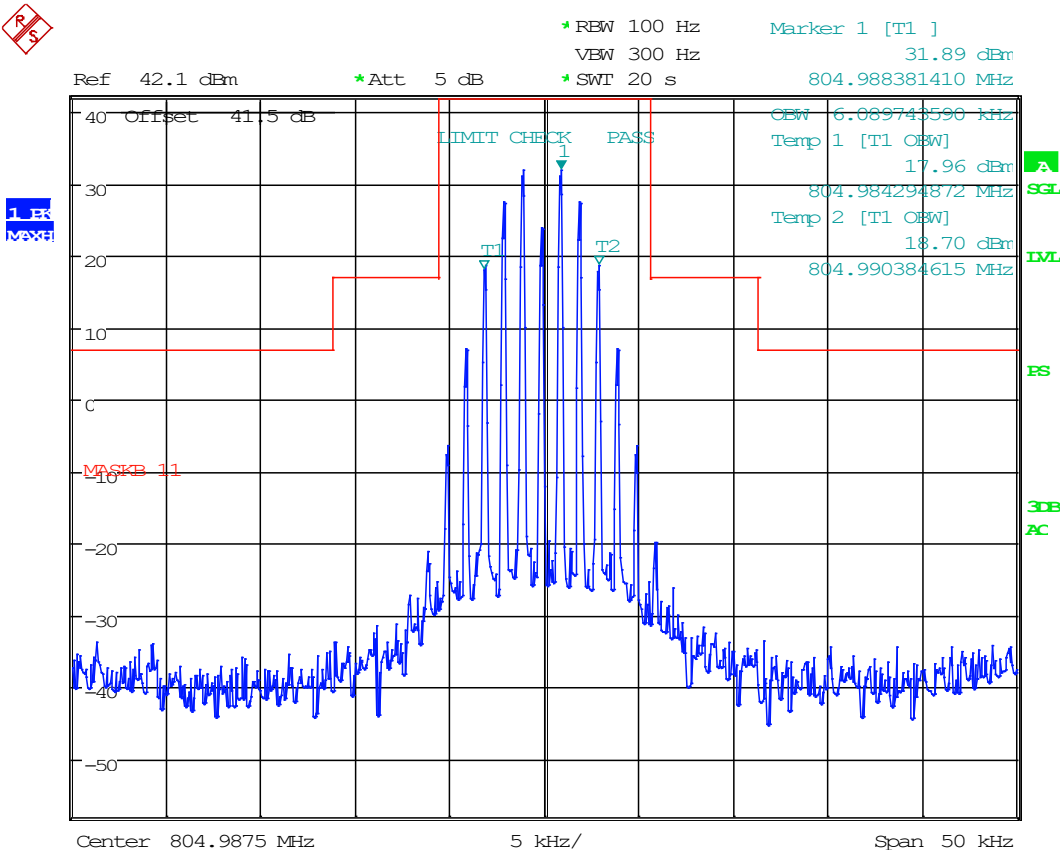
700 MHz Band, Uplink, 12.5k FM, AGC



Date: 30.JUL.2020 12:25:14

EMISSION MASK & IVO

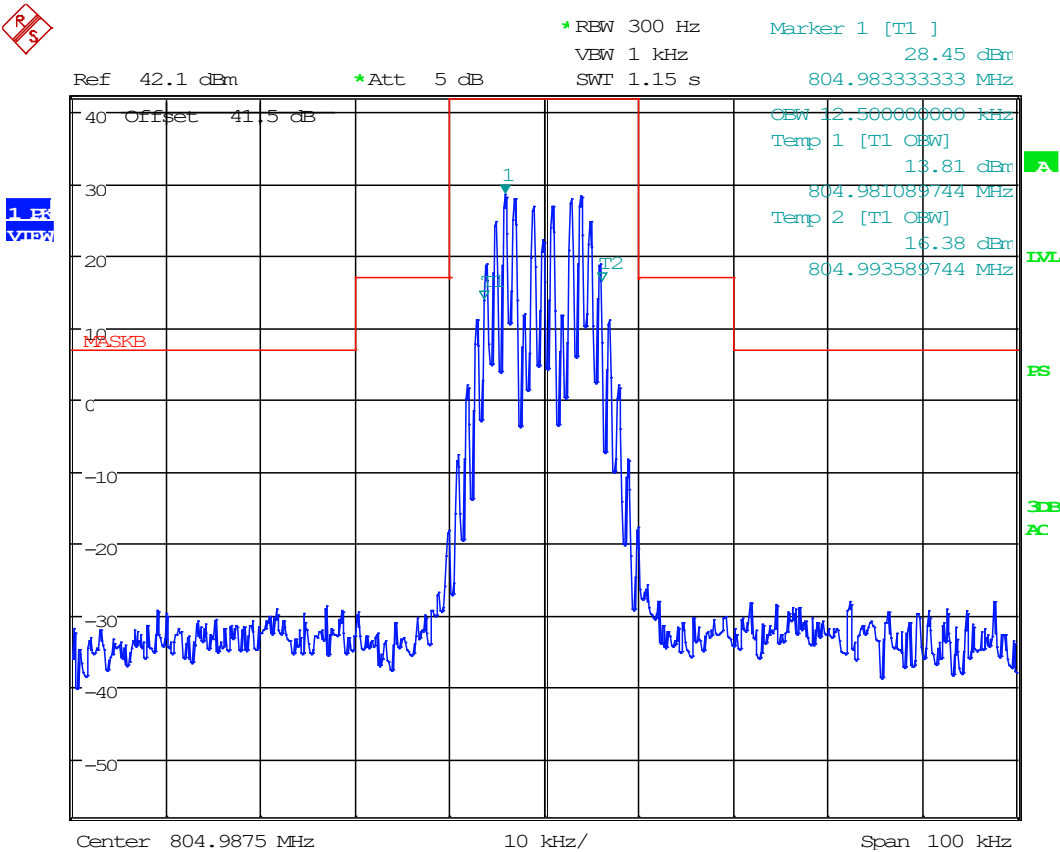
700 MHz Band, Uplink, 12.5k FM, AGC +3 dB



Date: 30.JUL.2020 12:25:50

EMISSION MASK & IVO

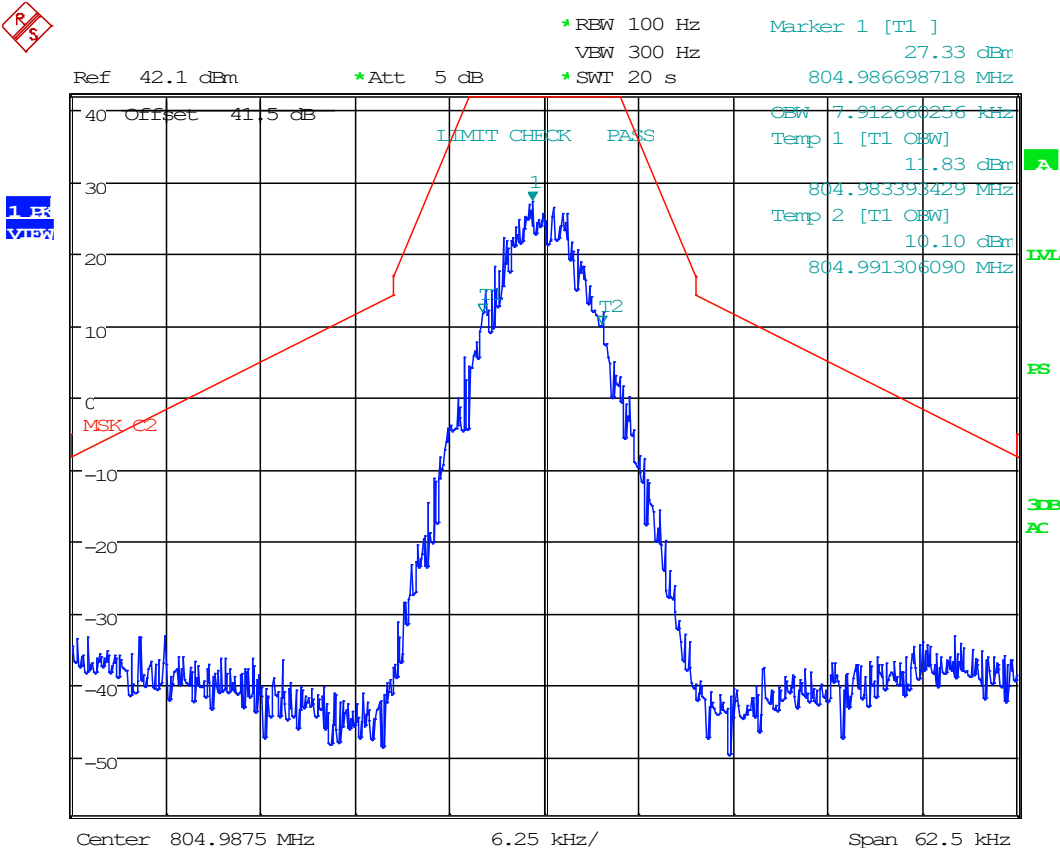
700 MHz Band, Uplink, 25k FM, AGC +3 dB



Date: 30.JUL.2020 12:26:55

EMISSION MASK & IVO

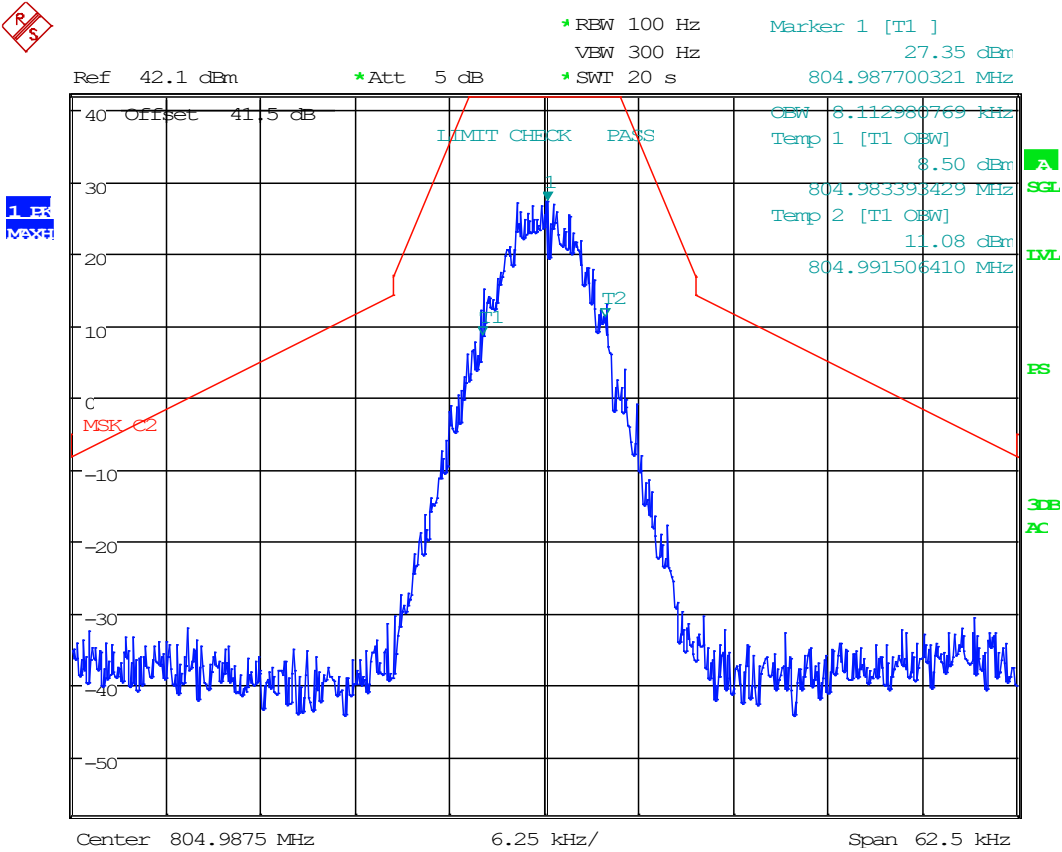
700 MHz Band, Uplink, C4FM, AGC



Date: 30.JUL.2020 12:13:33

EMISSION MASK & IVO

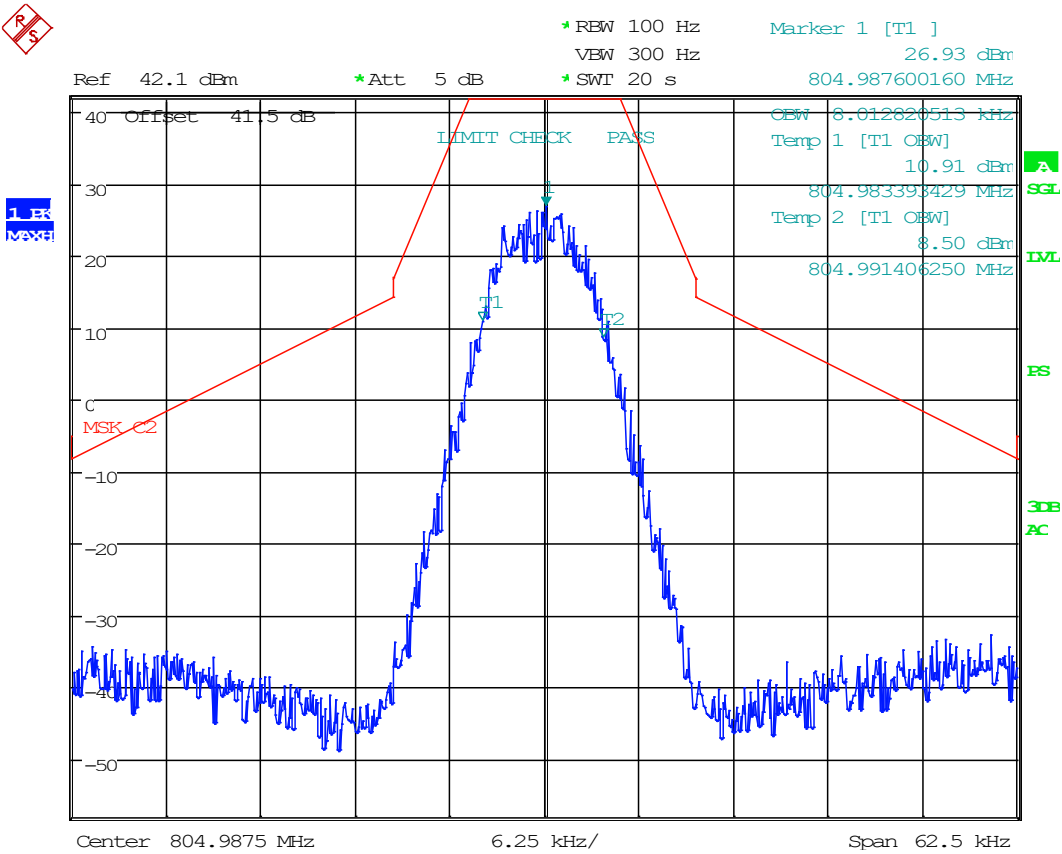
700 MHz Band, Uplink, C4FM, AGC +3 dB



Date: 30.JUL.2020 12:14:38

EMISSION MASK & IVO

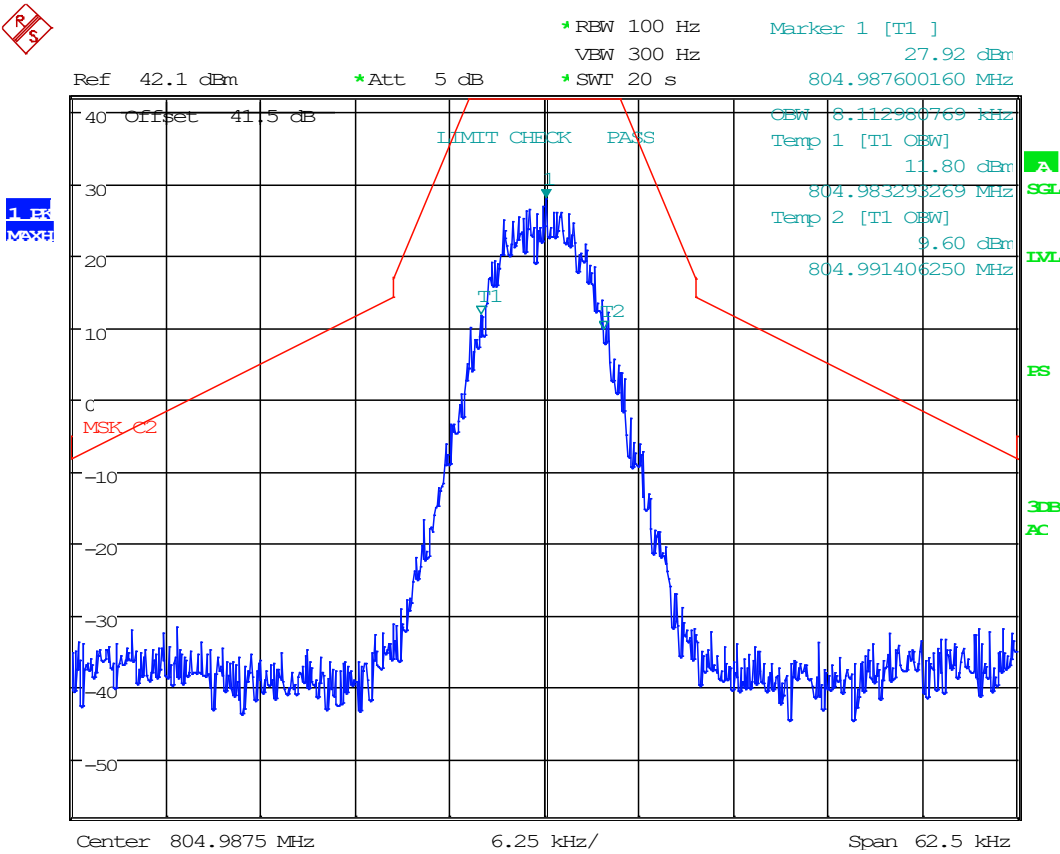
700 MHz Band, Uplink, H-CPM, AGC



Date: 30.JUL.2020 12:15:38

EMISSION MASK & IVO

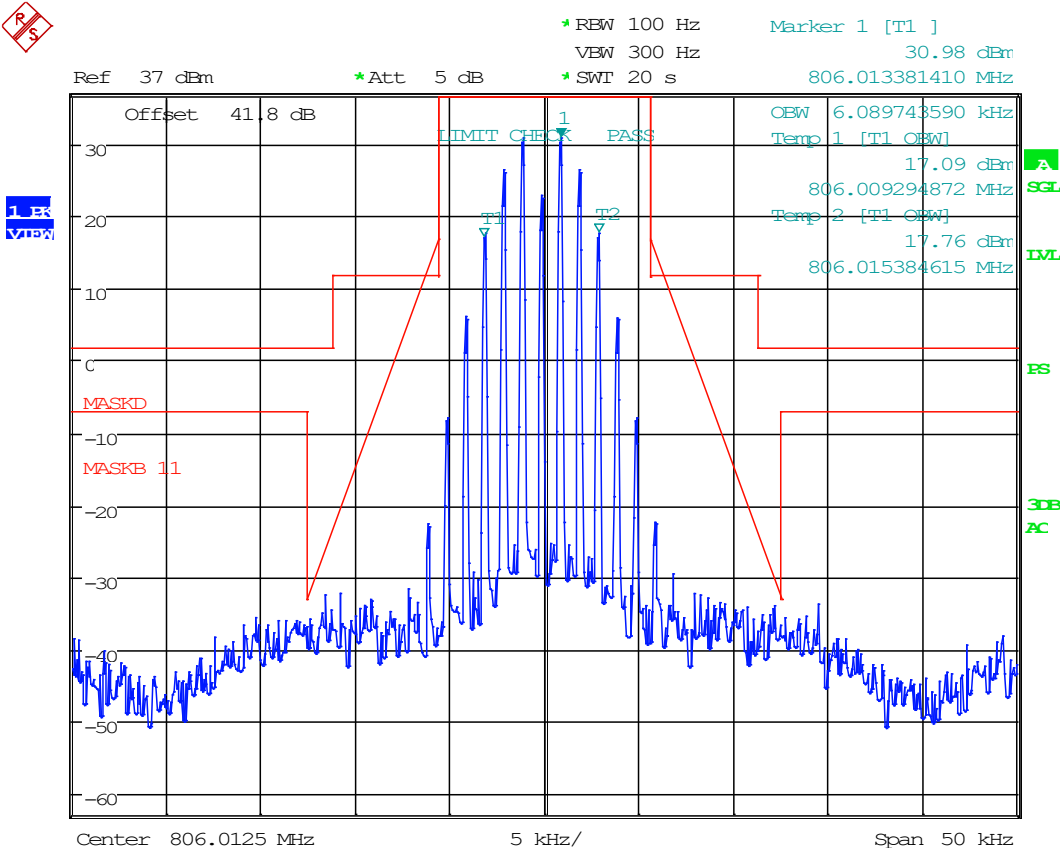
700 MHz Band, Uplink, H-CPM, AGC +3 DB



Date: 30.JUL.2020 12:21:27

EMISSION MASK & IVO

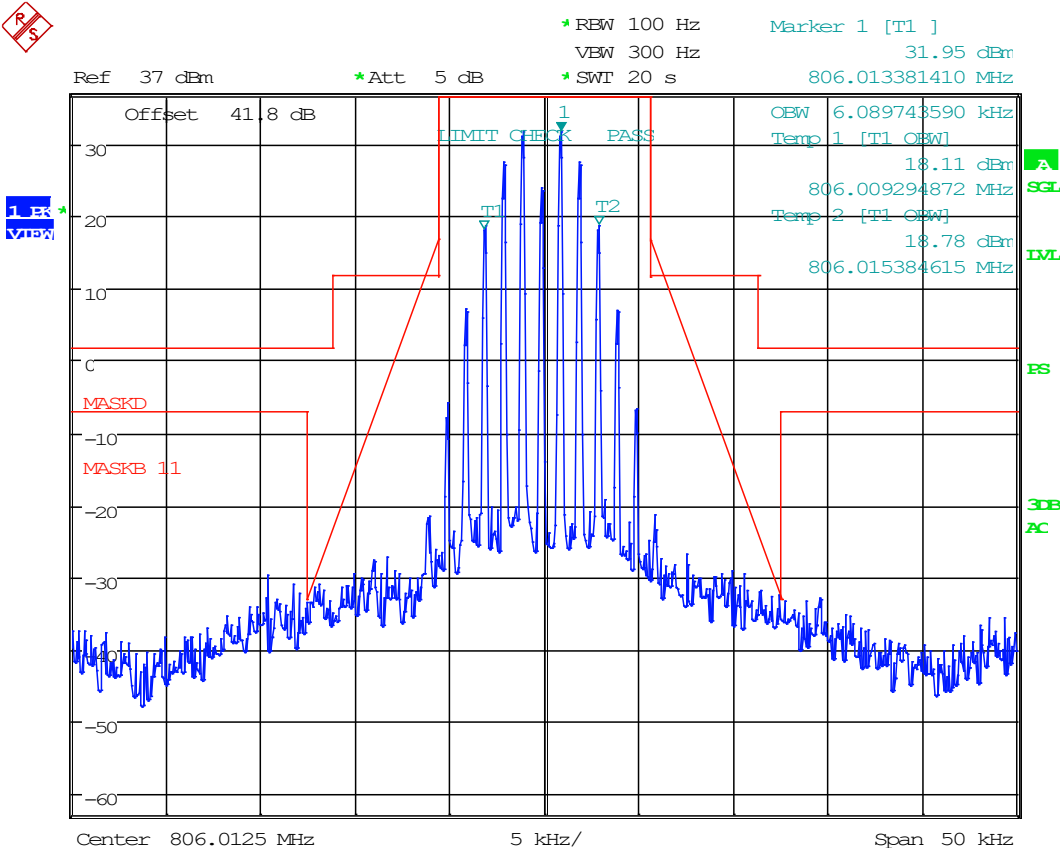
800 MHz Band, Uplink, 12.5k FM, AGC



Date: 29.JUL.2020 18:23:33

EMISSION MASK & IVO

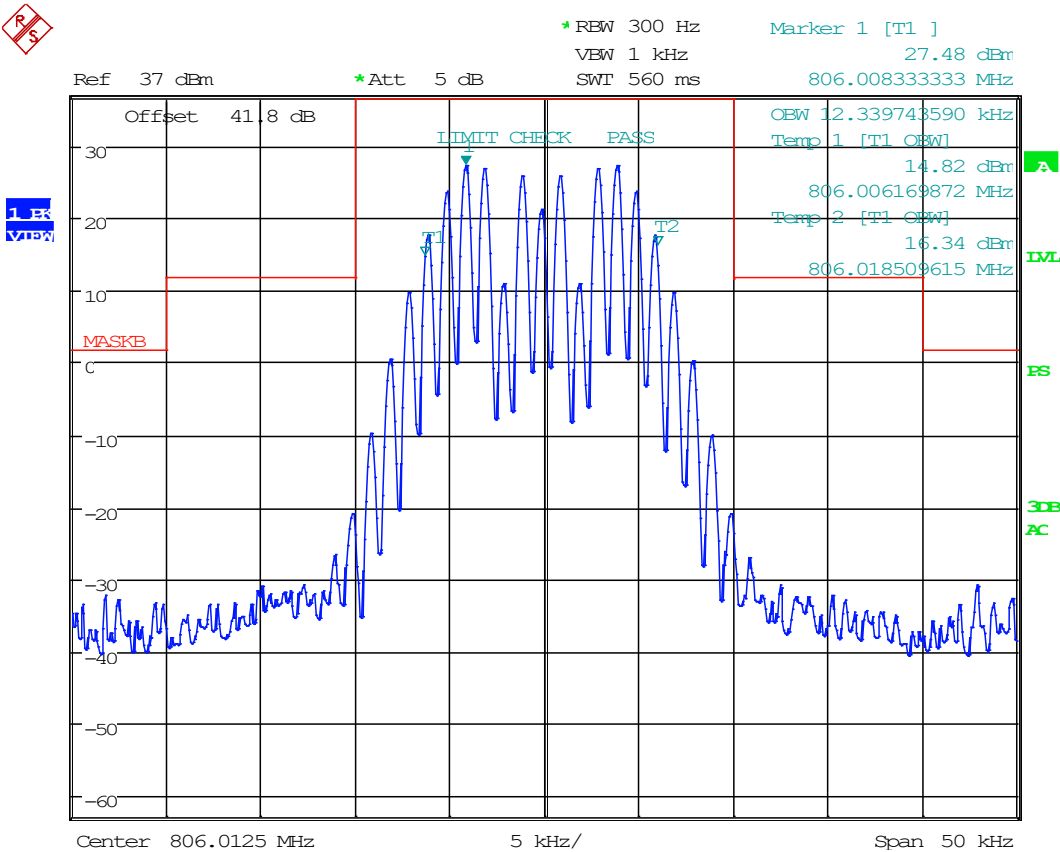
800 MHz Band, Uplink, 12.5k FM, AGC +3 dB



Date: 29.JUL.2020 18:22:35

EMISSION MASK & IVO

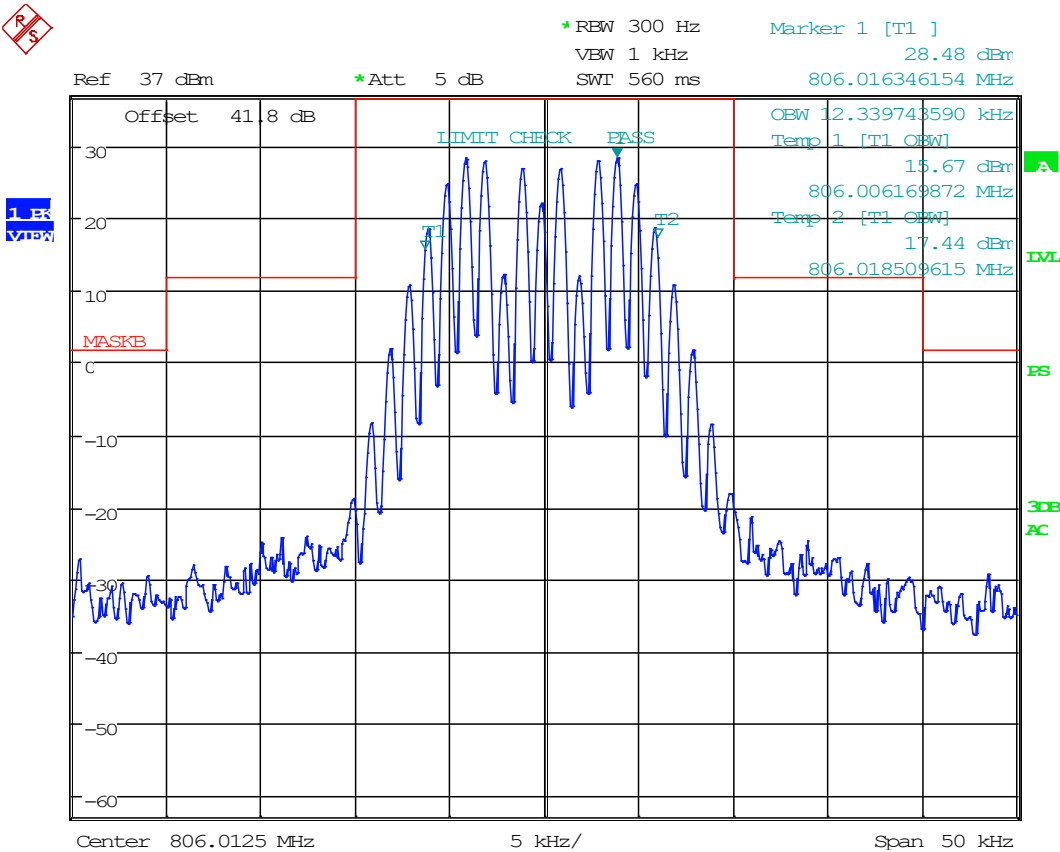
800 MHz Band, Uplink, 25k FM, AGC



Date: 29.JUL.2020 18:25:24

EMISSION MASK & IVO

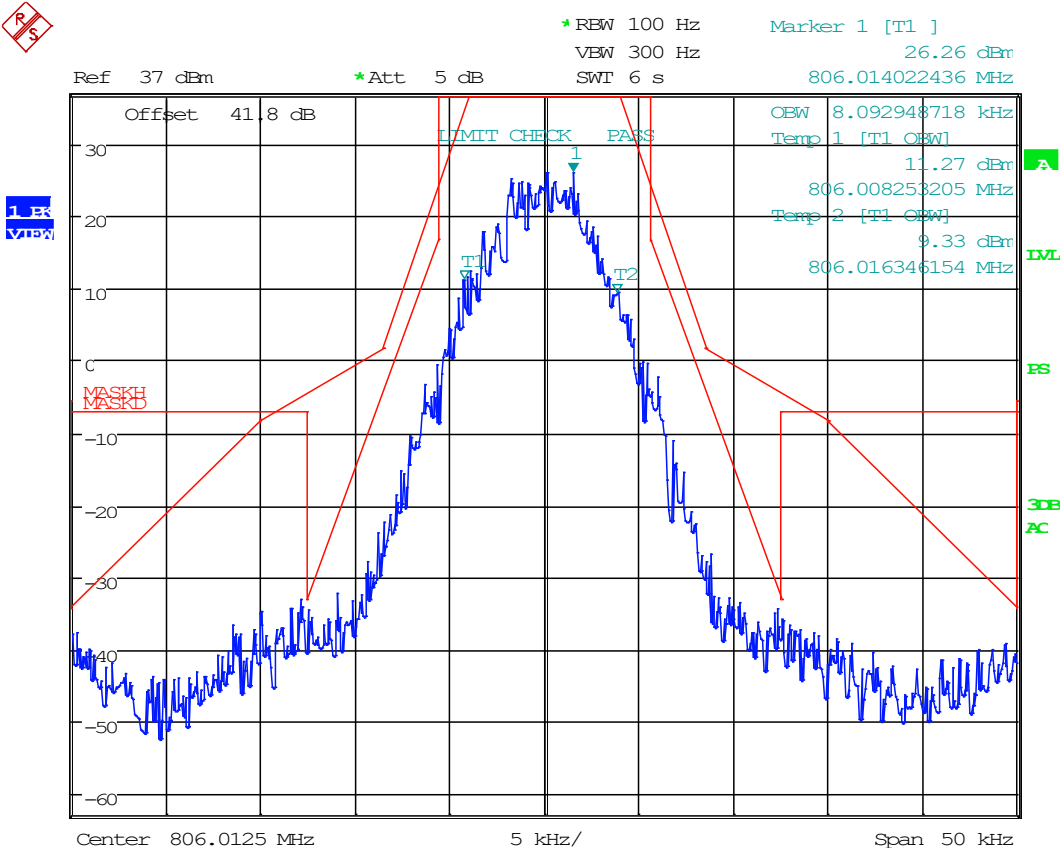
800 MHz Band, Uplink, 25k FM, AGC +3 dB



Date: 29.JUL.2020 18:25:56

EMISSION MASK & IVO

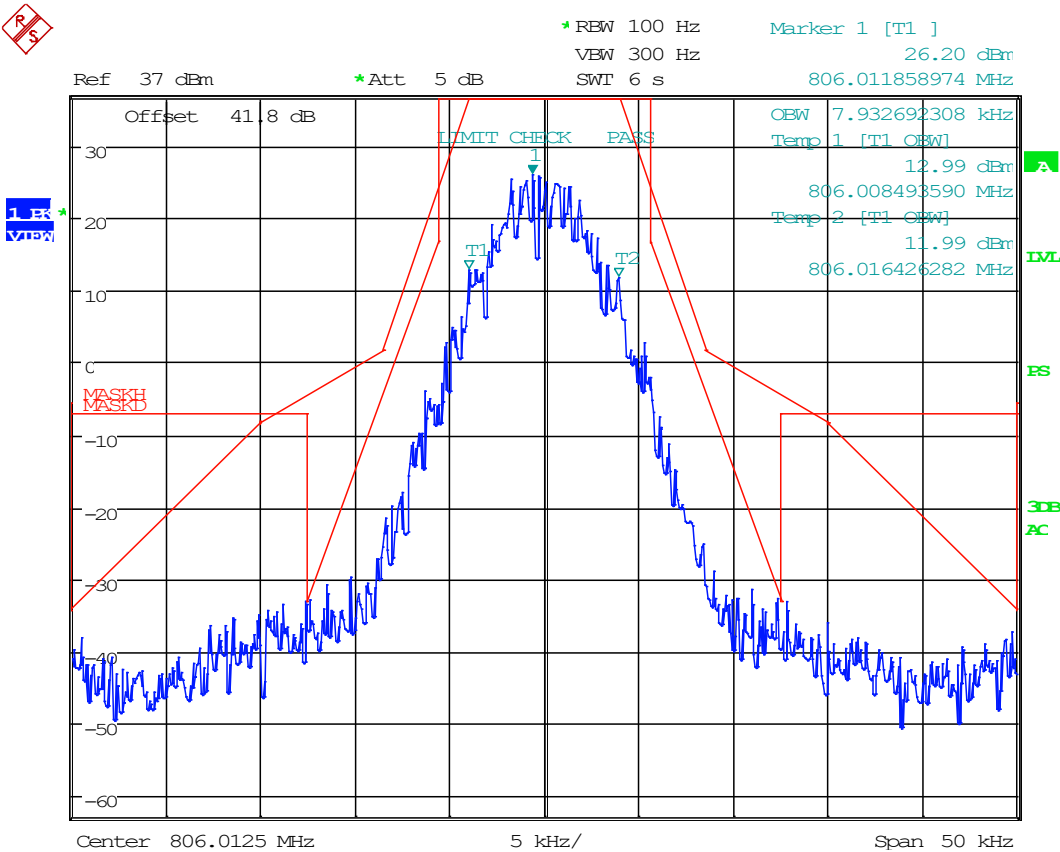
800 MHz Band, Uplink, C4FM, AGC



Date: 29.JUL.2020 18:15:35

EMISSION MASK & IVO

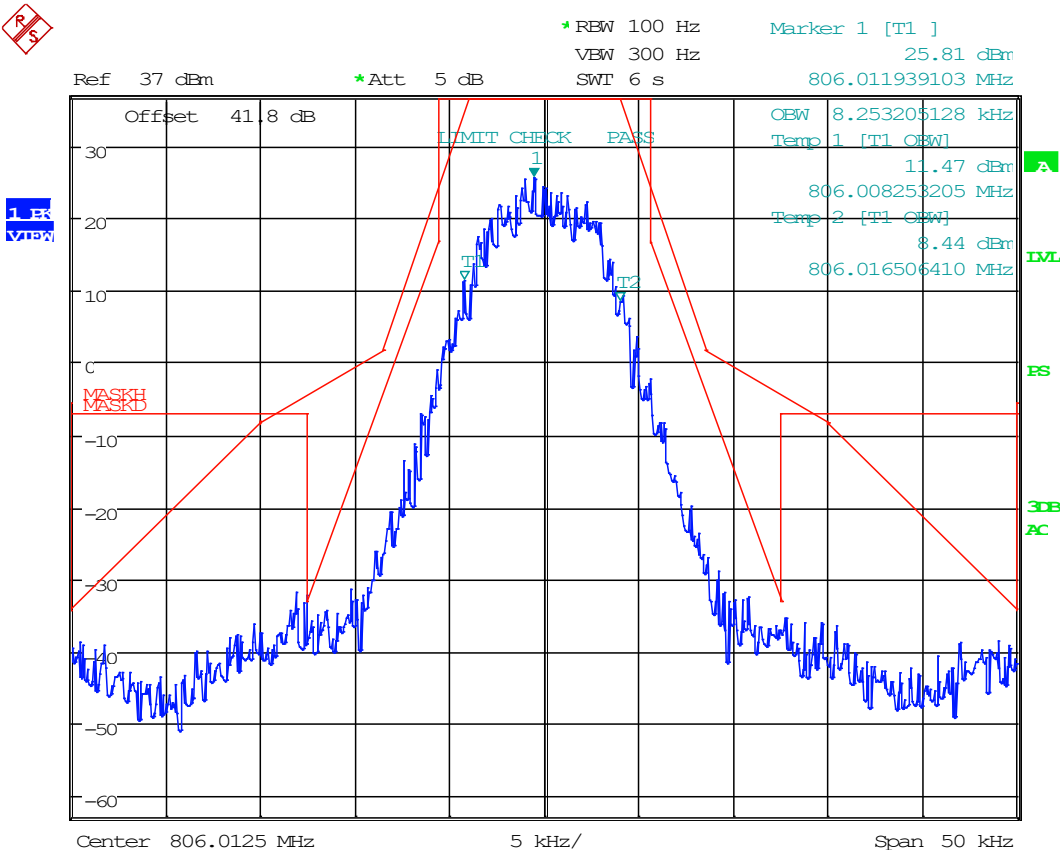
800 MHz Band, Uplink, C4FM, AGC +3 dB



Date: 29.JUL.2020 18:12:36

EMISSION MASK & IVO

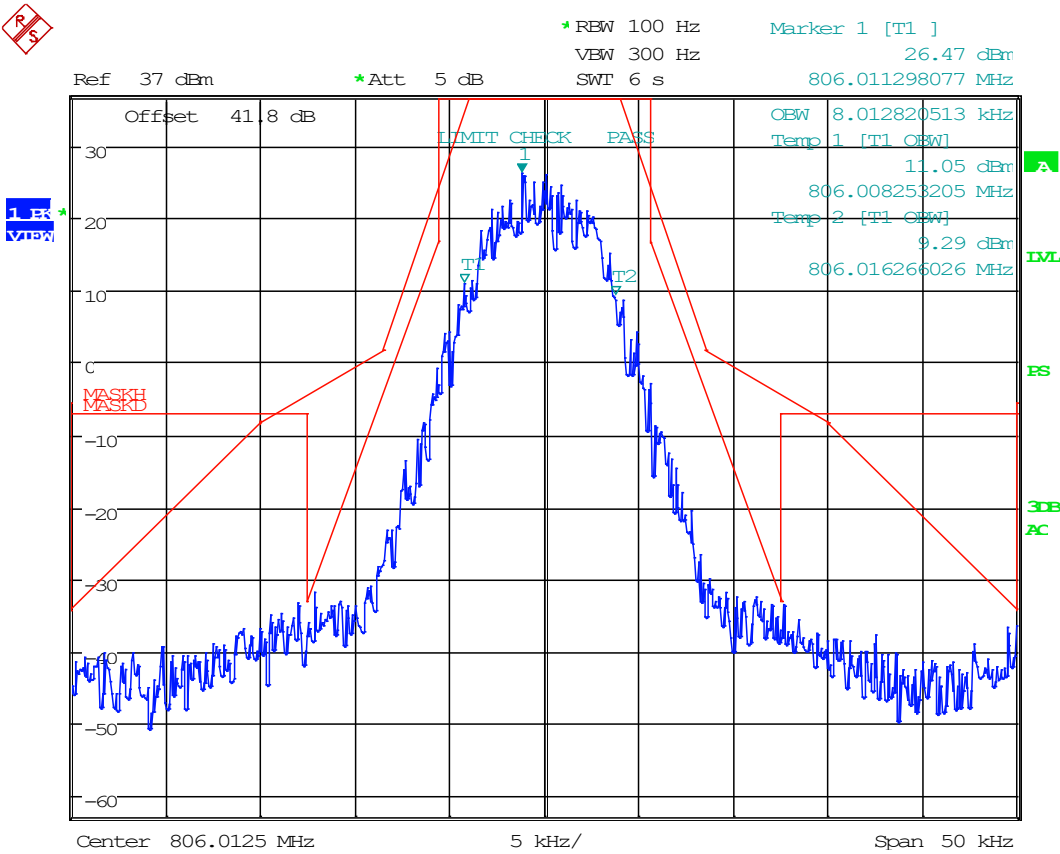
800 MHz Band, Uplink, H-CPM, AGC



Date: 29.JUL.2020 18:16:17

EMISSION MASK & IVO

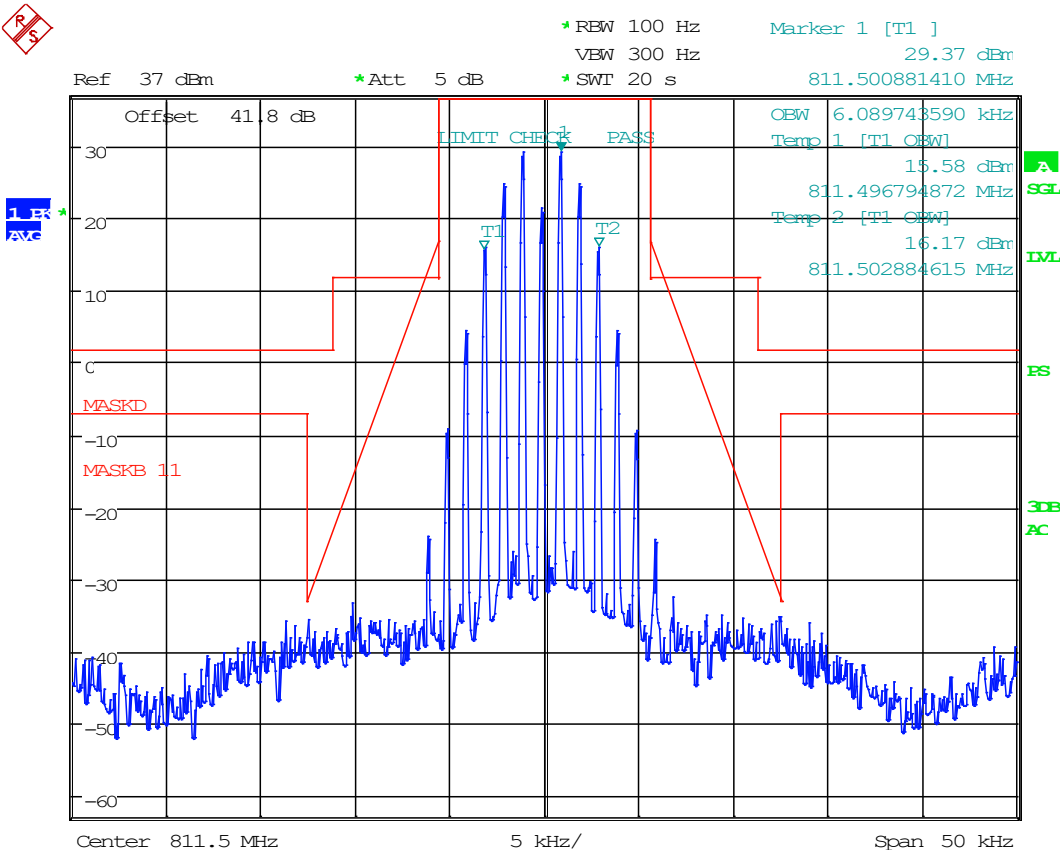
800 MHz Band, Uplink, H-CPM, AGC +3 DB



Date: 29.JUL.2020 18:17:28

EMISSION MASK & IVO

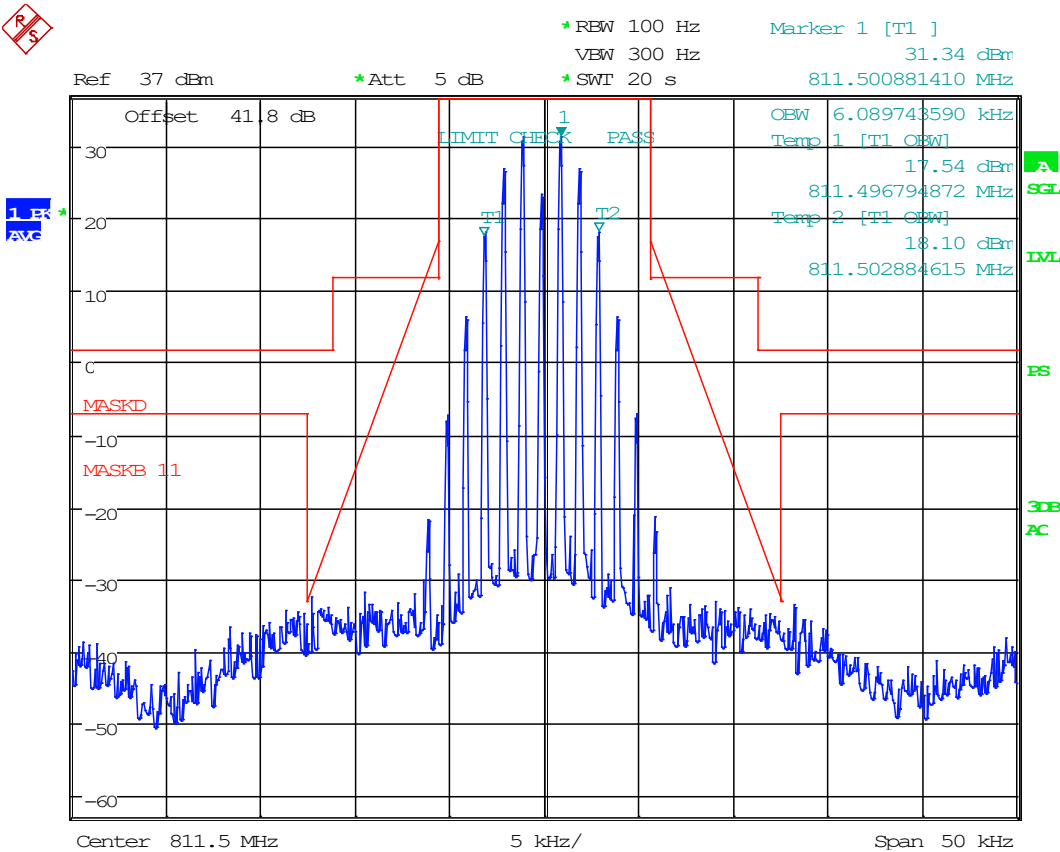
800 MHz Band, Uplink, 12.5k FM, AGC



Date: 29.JUL.2020 18:42:10

EMISSION MASK & IVO

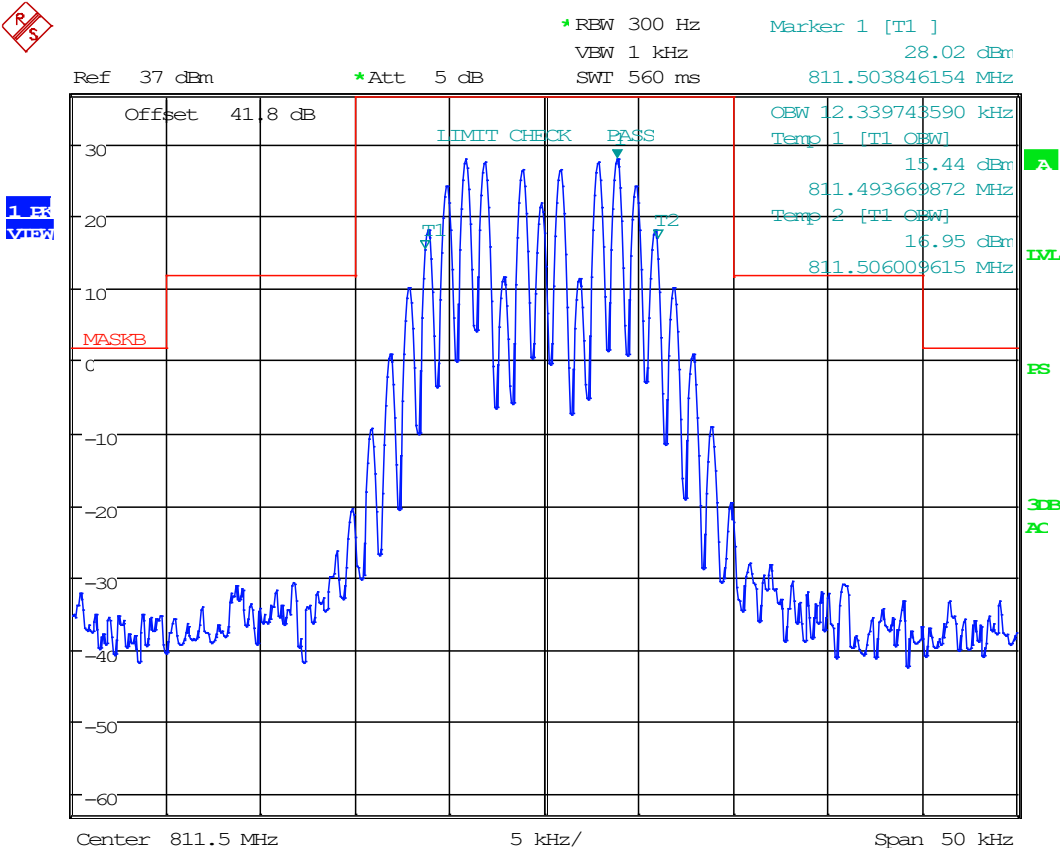
800 MHz Band, Uplink, 12.5k FM, AGC +3 dB



Date: 29.JUL.2020 18:41:21

EMISSION MASK & IVO

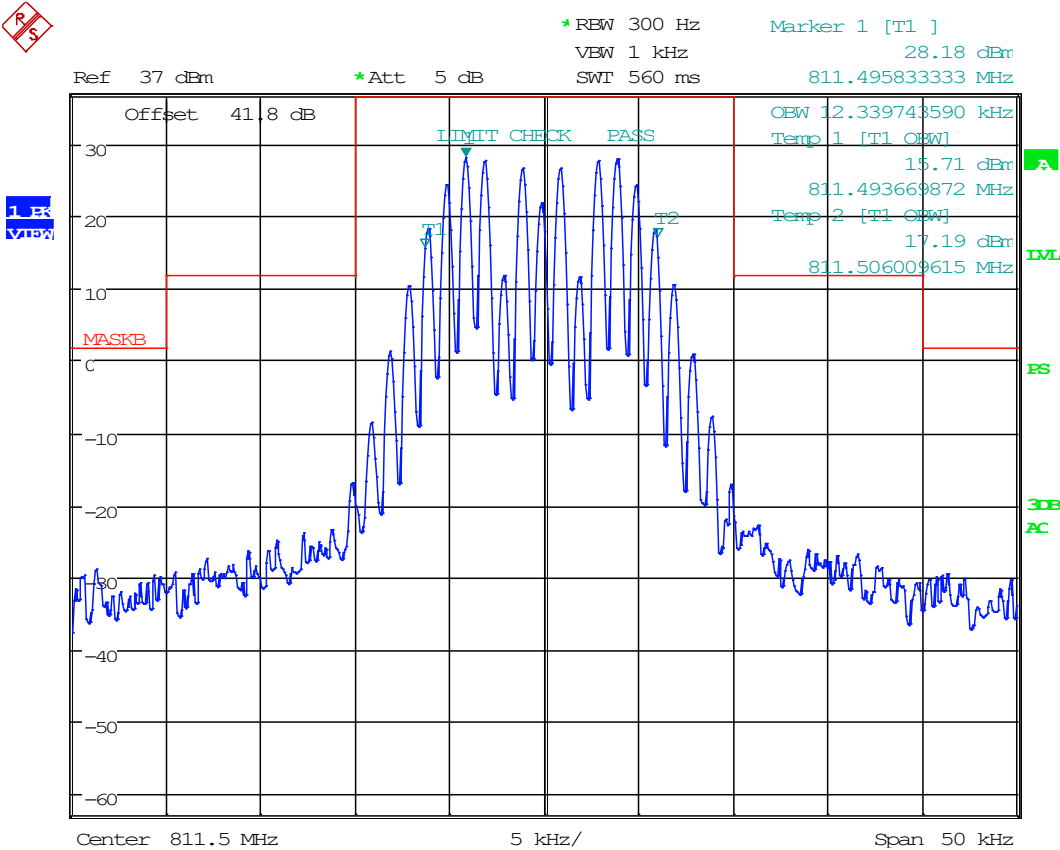
800 MHz Band, Uplink, 25k FM, AGC



Date: 29.JUL.2020 18:29:08

EMISSION MASK & IVO

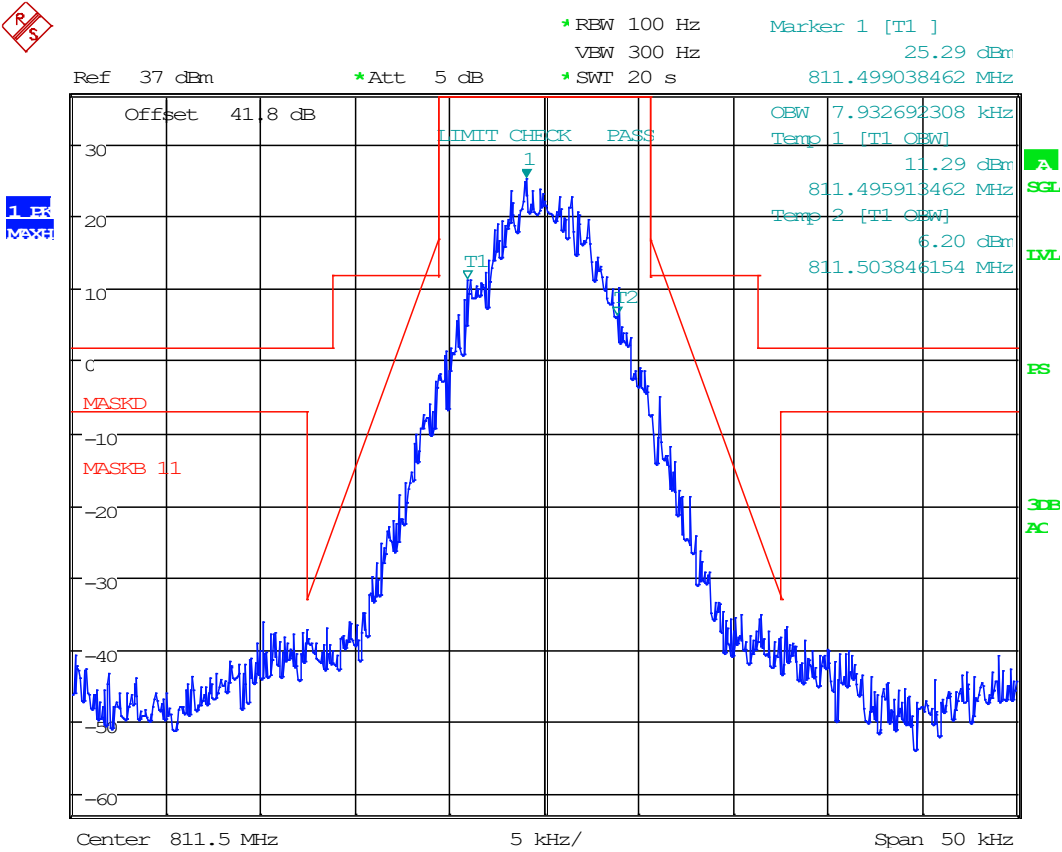
800 MHz Band, Uplink, 25k FM, AGC +3 dB



Date: 29.JUL.2020 18:28:41

EMISSION MASK & IVO

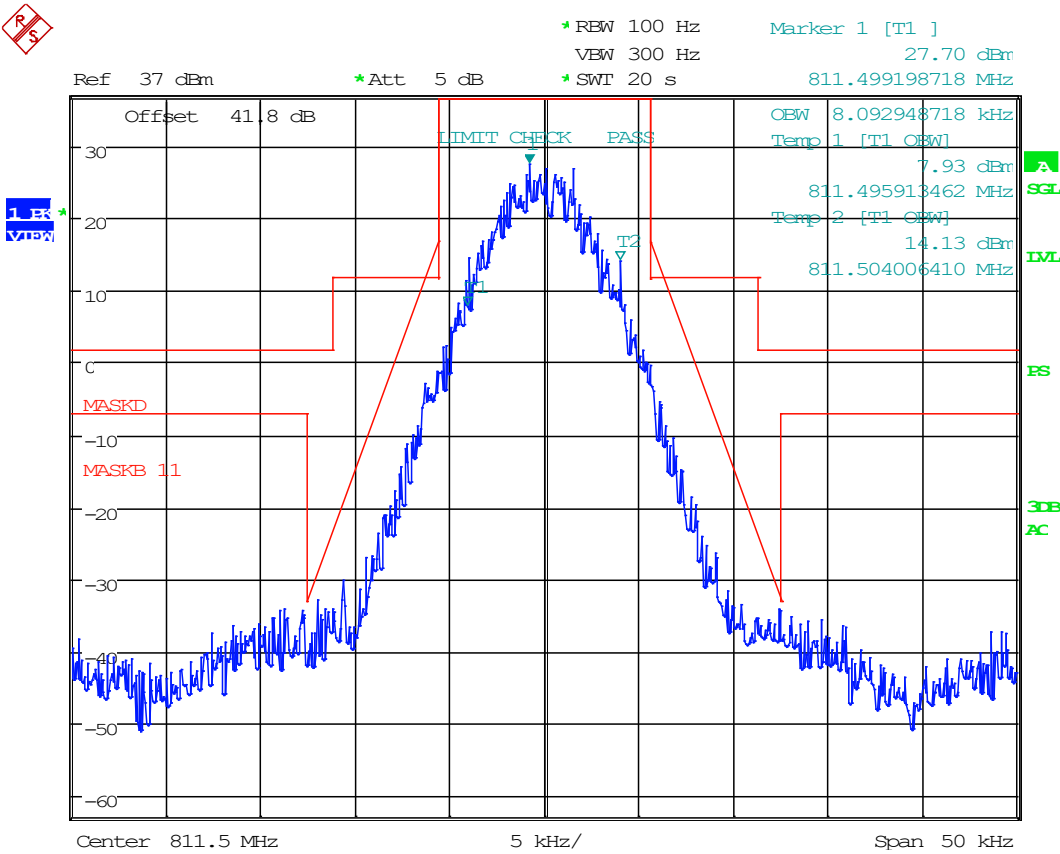
800 MHz Band, Uplink, C4FM, AGC



Date: 29.JUL.2020 18:35:54

EMISSION MASK & IVO

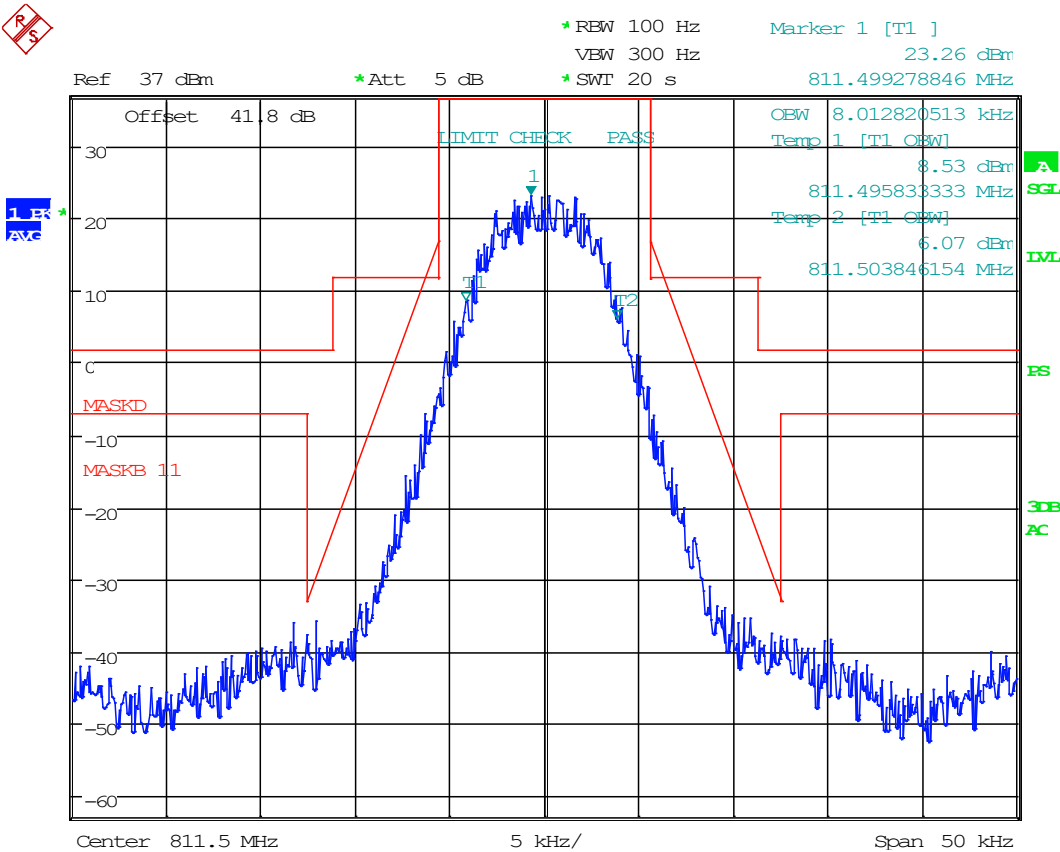
800 MHz Band, Uplink, C4FM, AGC +3 dB



Date: 29.JUL.2020 18:36:50

EMISSION MASK & IVO

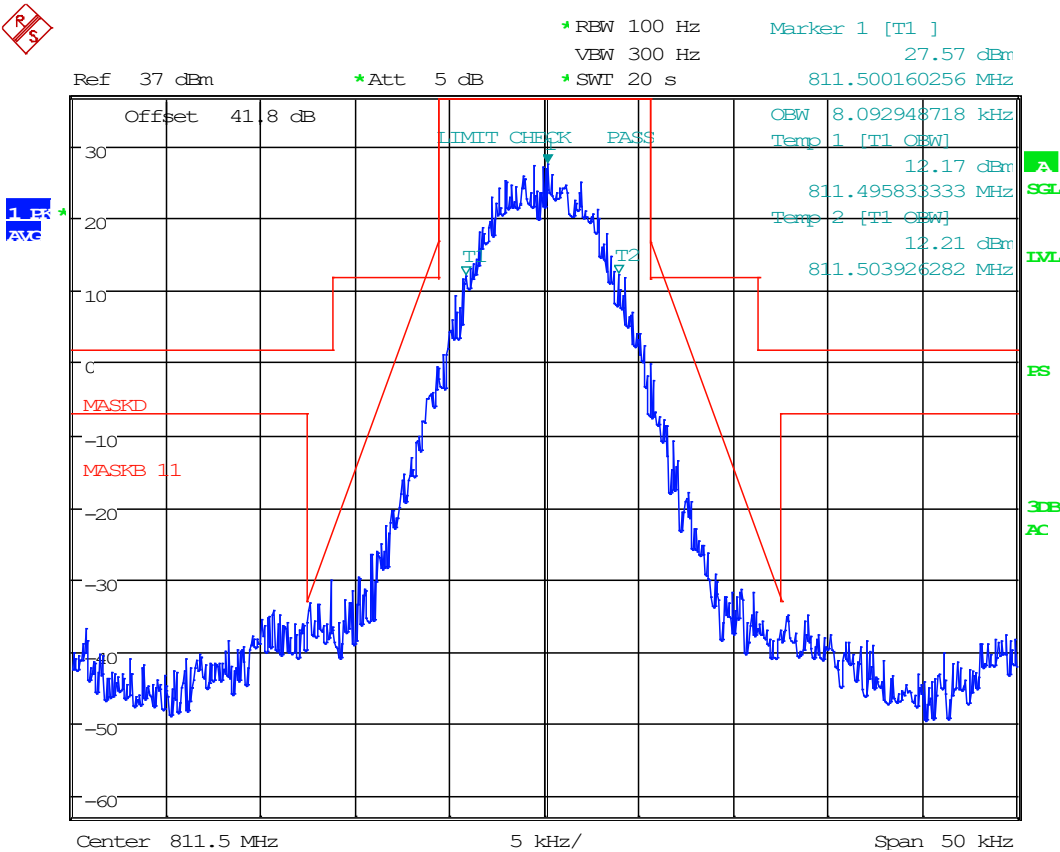
800 MHz Band, Uplink, H-CPM, AGC



Date: 29.JUL.2020 18:38:44

EMISSION MASK & IVO

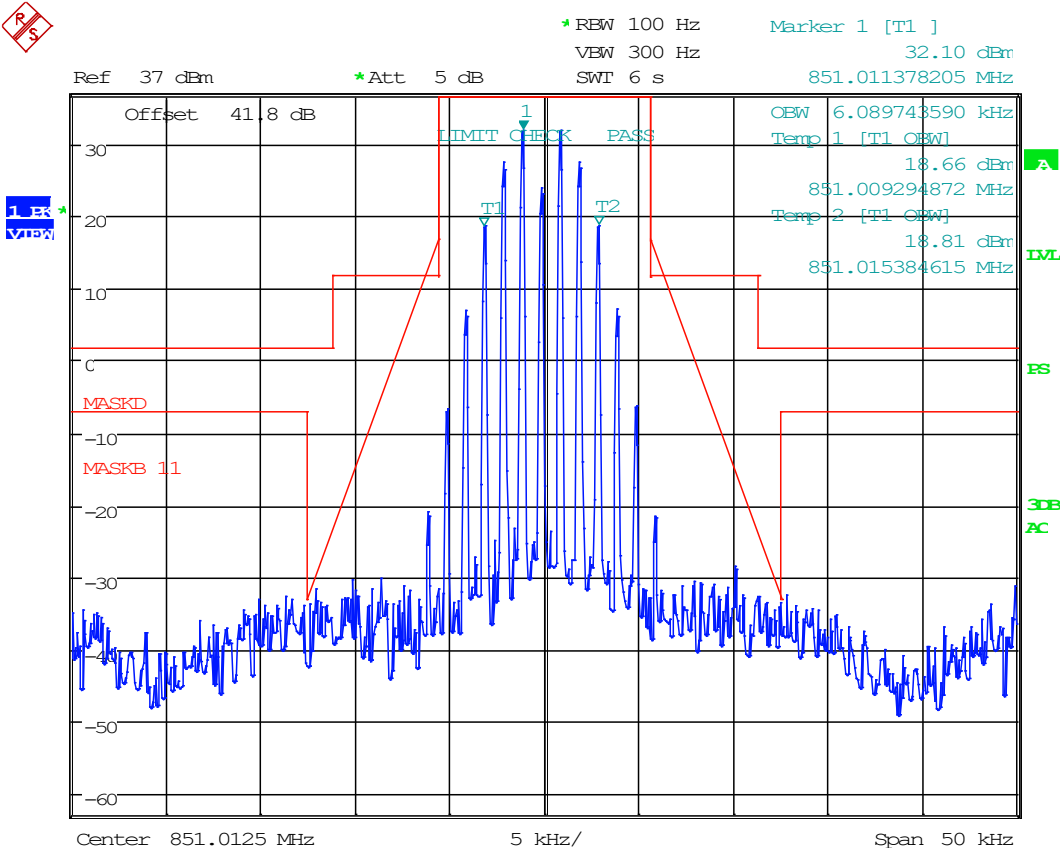
800 MHz Band, Uplink, H-CPM, AGC +3 DB



Date: 29.JUL.2020 18:37:57

EMISSION MASK & IVO

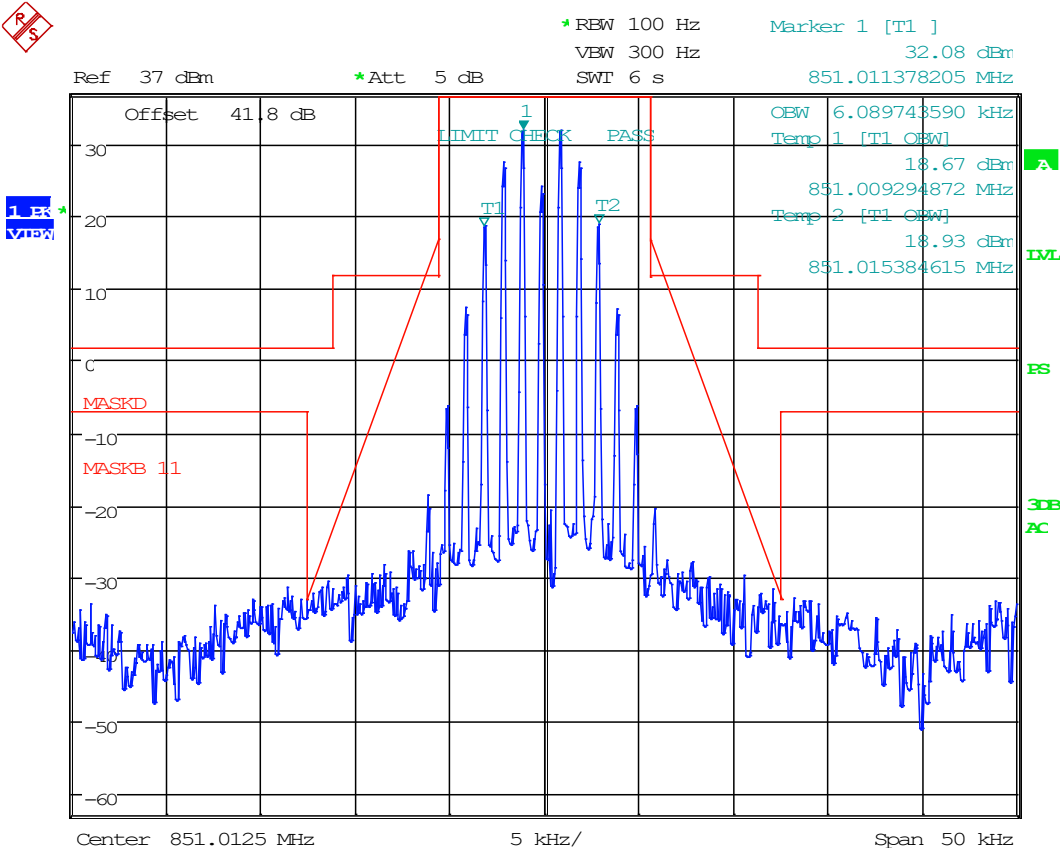
800 MHz Band, Downlink, 12.5k FM, AGC



Date: 29.JUL.2020 15:26:56

EMISSION MASK & IVO

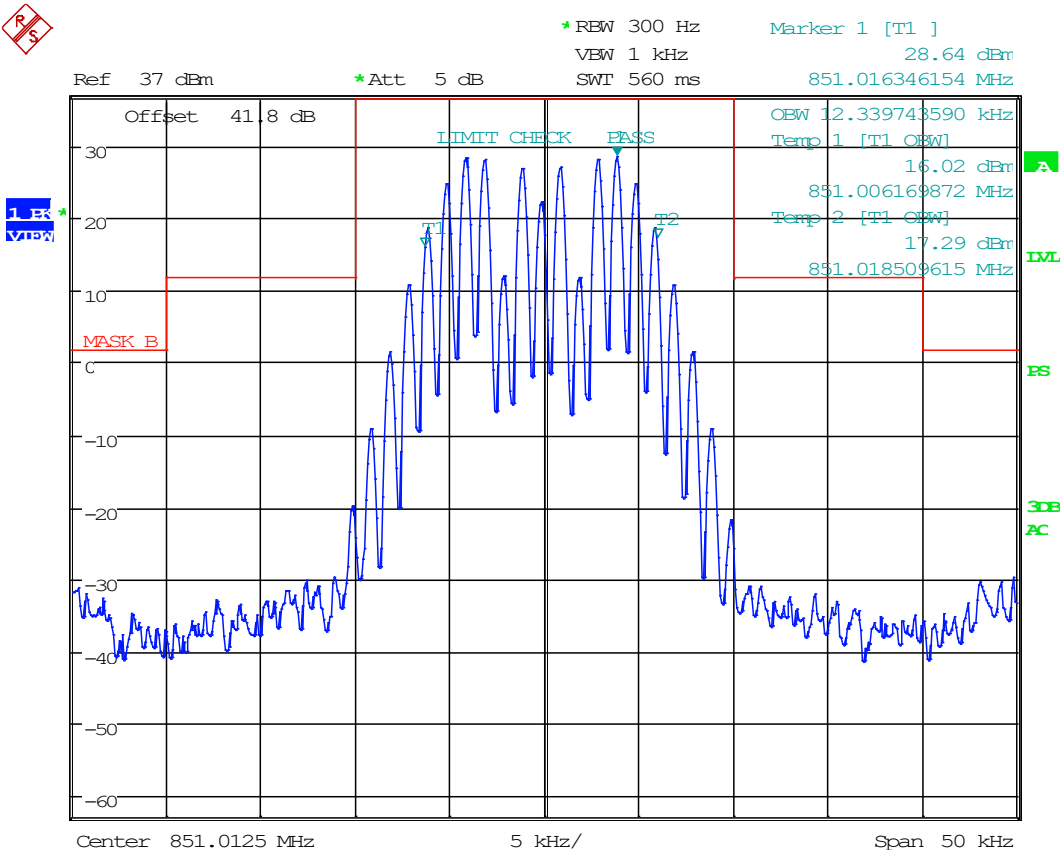
800 MHz Band, Downlink, 12.5k FM, AGC +3 dB



Date: 29.JUL.2020 15:27:49

EMISSION MASK & IVO

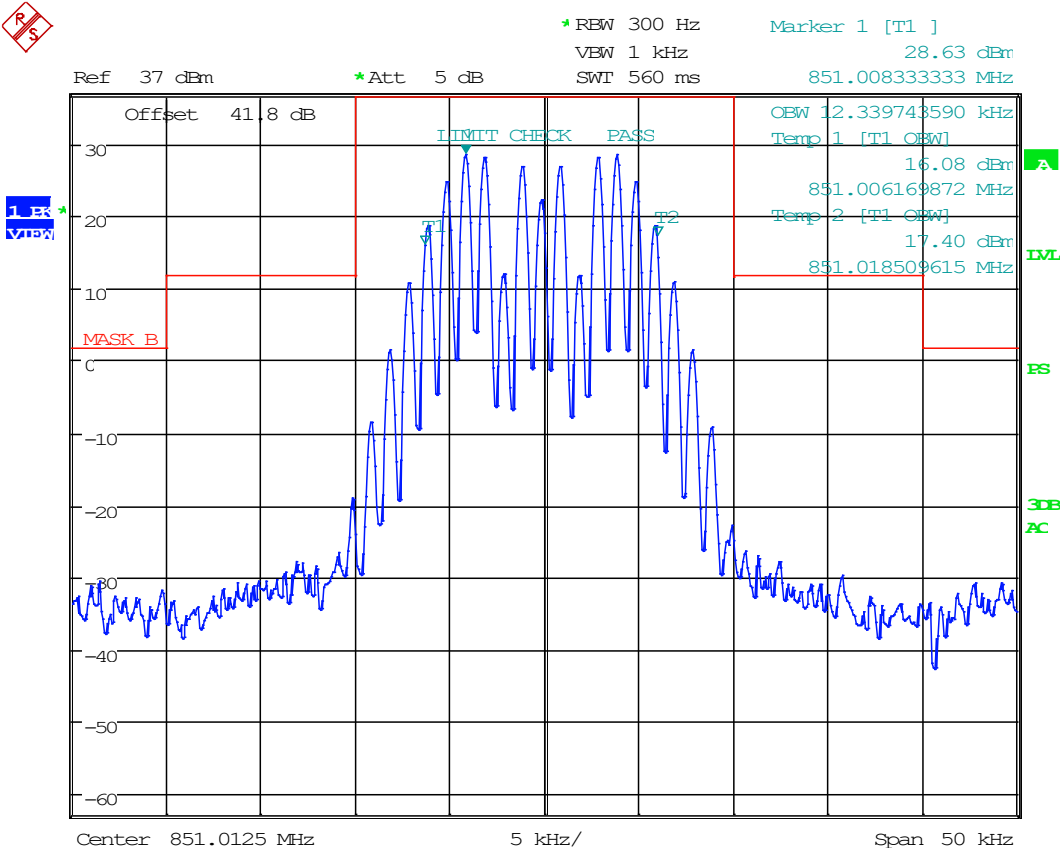
800 MHz Band, Downlink, 25k FM, AGC



Date: 29.JUL.2020 15:31:04

EMISSION MASK & IVO

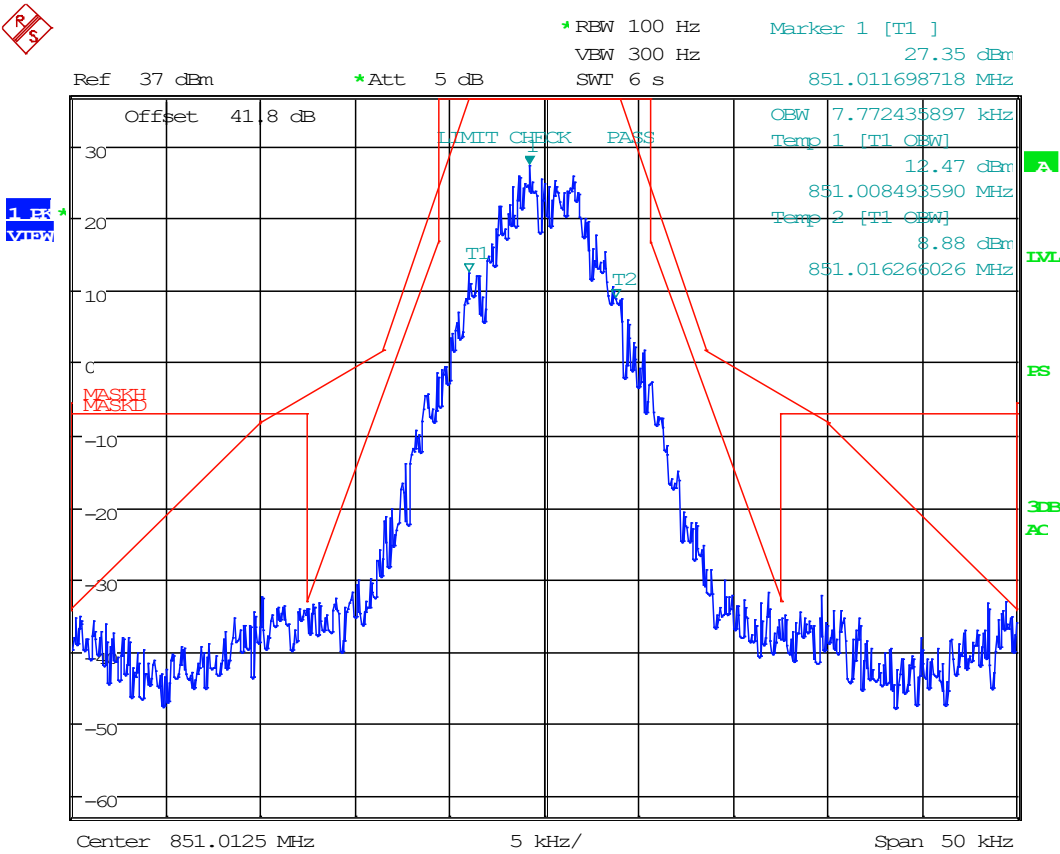
800 MHz Band, Downlink, 25k FM, AGC +3 dB



Date: 29.JUL.2020 15:30:05

EMISSION MASK & IVO

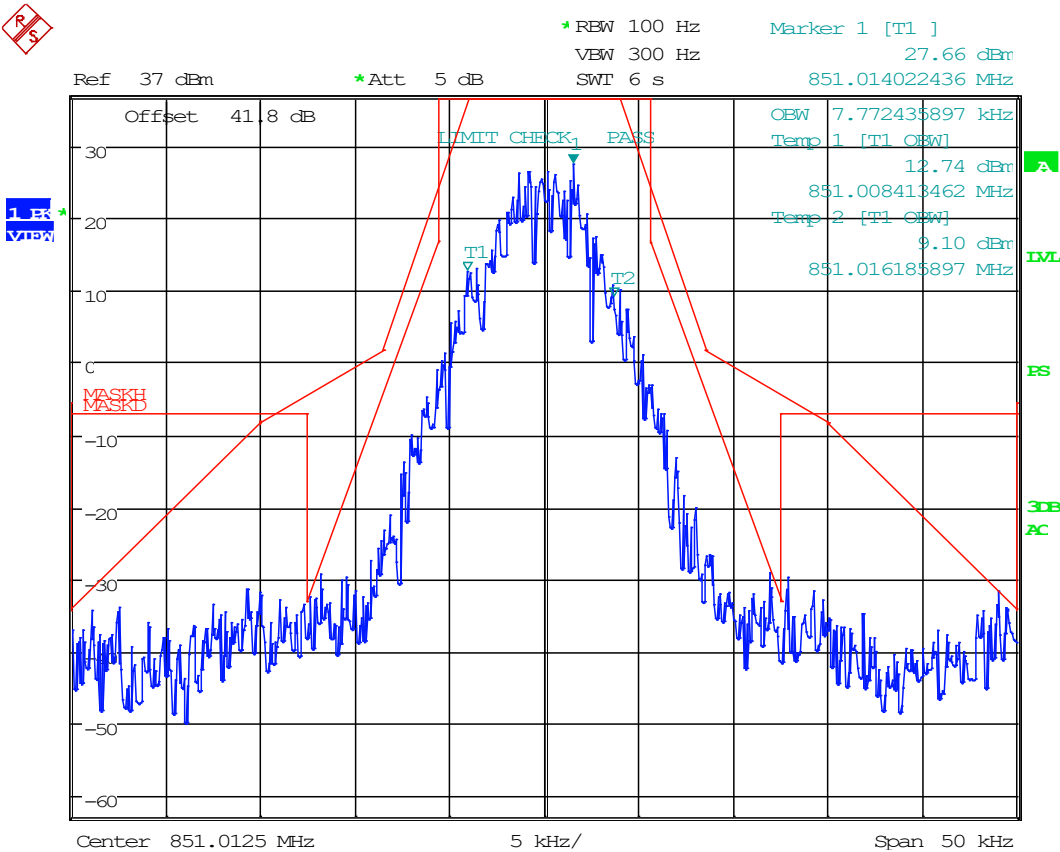
800 MHz Band, Downlink, C4FM, AGC



Date: 29.JUL.2020 15:15:53

EMISSION MASK & IVO

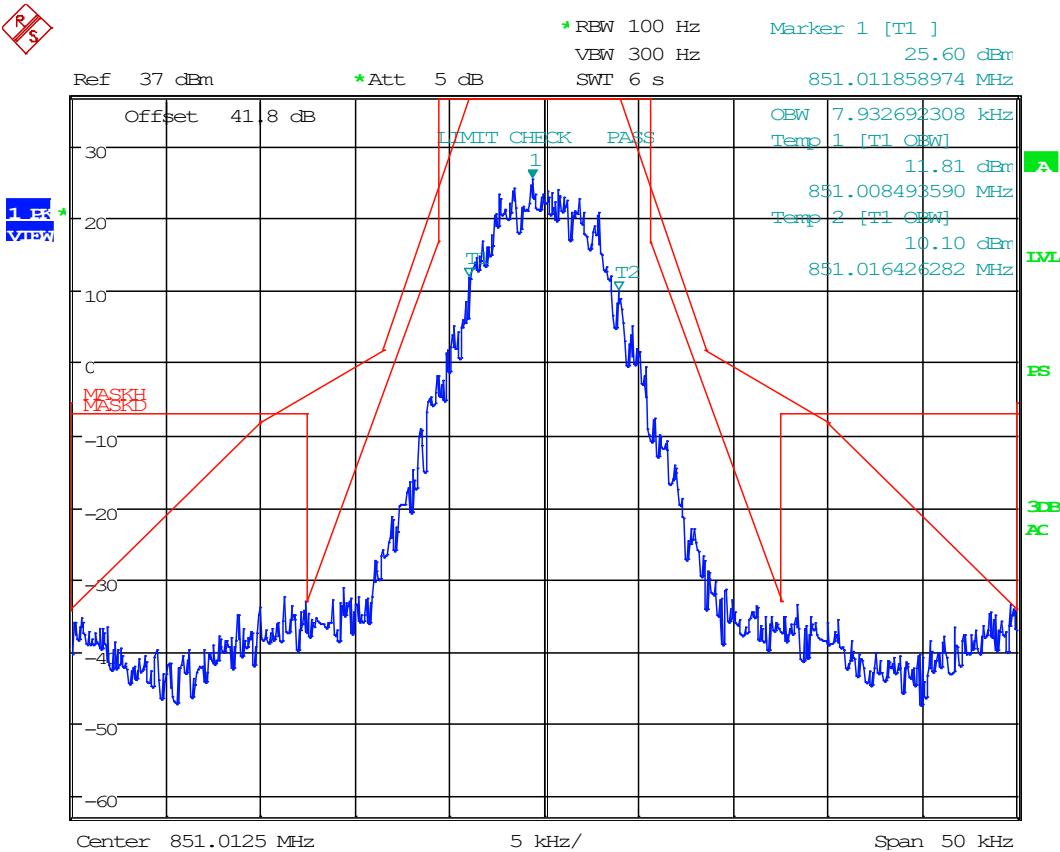
800 MHz Band, Downlink, C4FM, AGC +3 dB



Date: 29.JUL.2020 15:19:15

EMISSION MASK & IVO

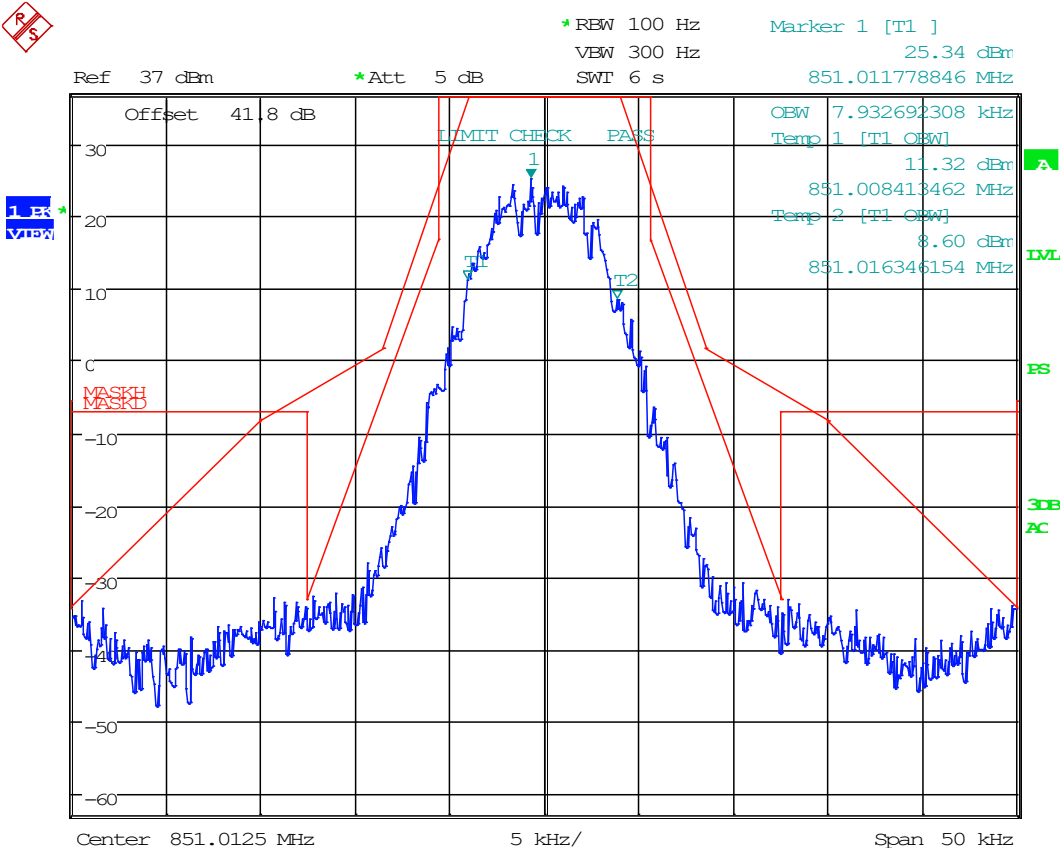
800 MHz Band, Downlink, H-CPM, AGC



Date: 29.JUL.2020 15:21:59

EMISSION MASK & IVO

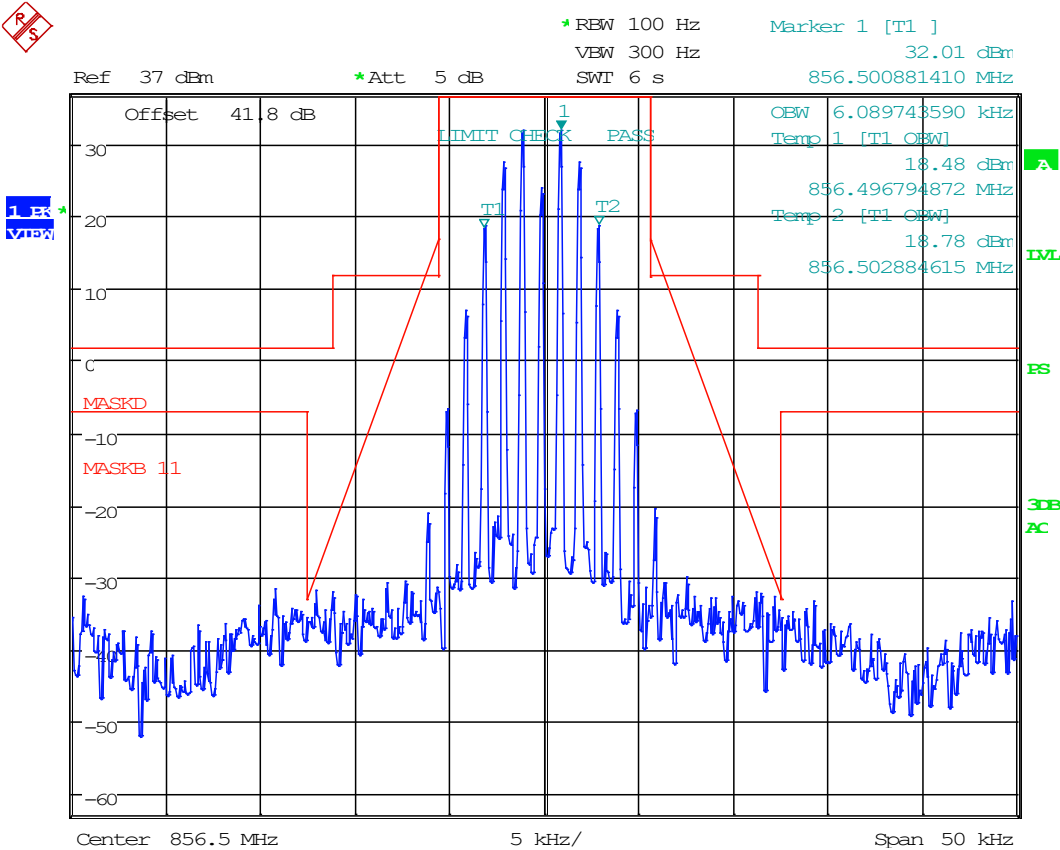
800 MHz Band, Downlink, H-CPM, AGC +3 DB



Date: 29.JUL.2020 15:20:41

EMISSION MASK & IVO

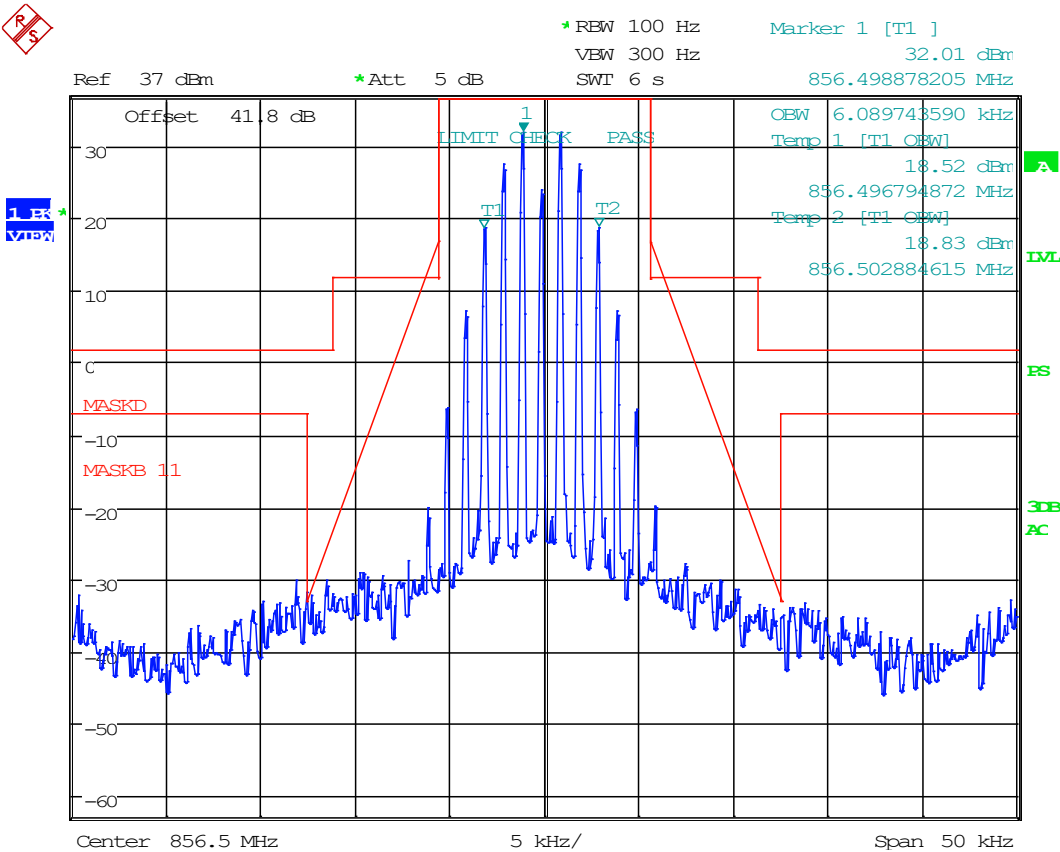
800 MHz Band, Downlink, 12.5k FM, AGC



Date: 29.JUL.2020 15:36:10

EMISSION MASK & IVO

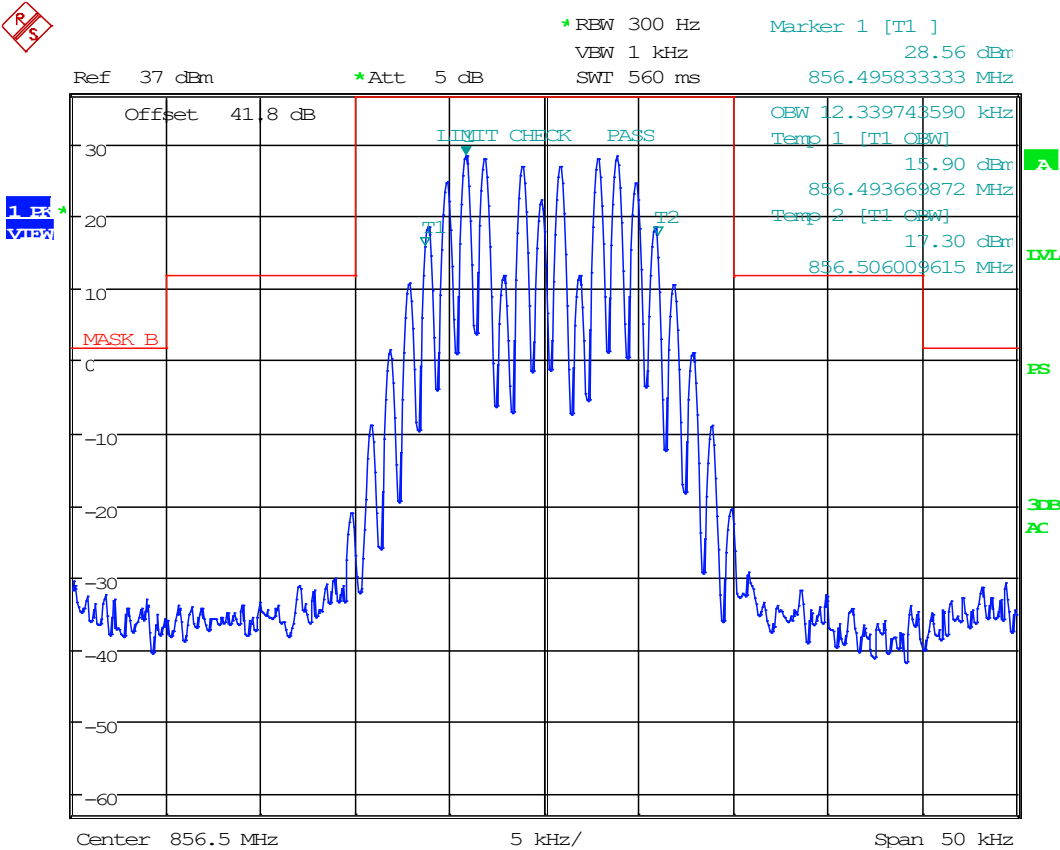
800 MHz Band, Downlink, 12.5k FM, AGC +3 dB



Date: 29.JUL.2020 15:36:57

EMISSION MASK & IVO

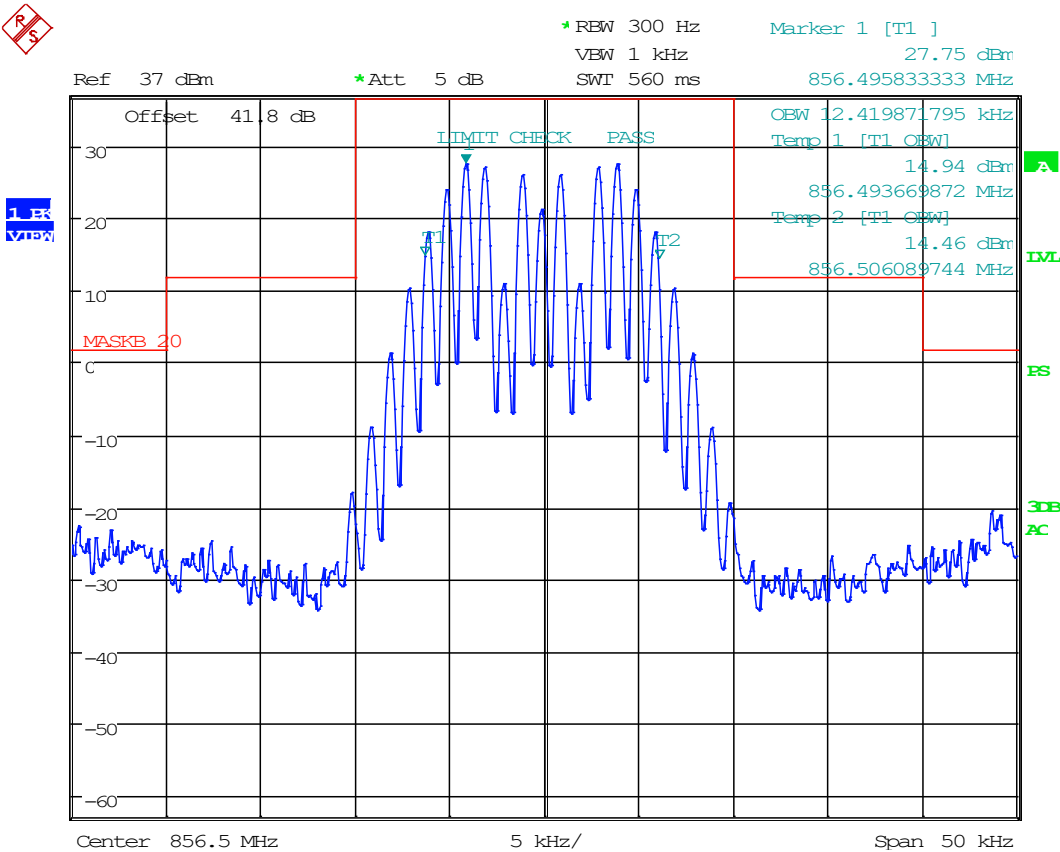
800 MHz Band, Downlink, 25k FM, AGC



Date: 29.JUL.2020 15:32:01

EMISSION MASK & IVO

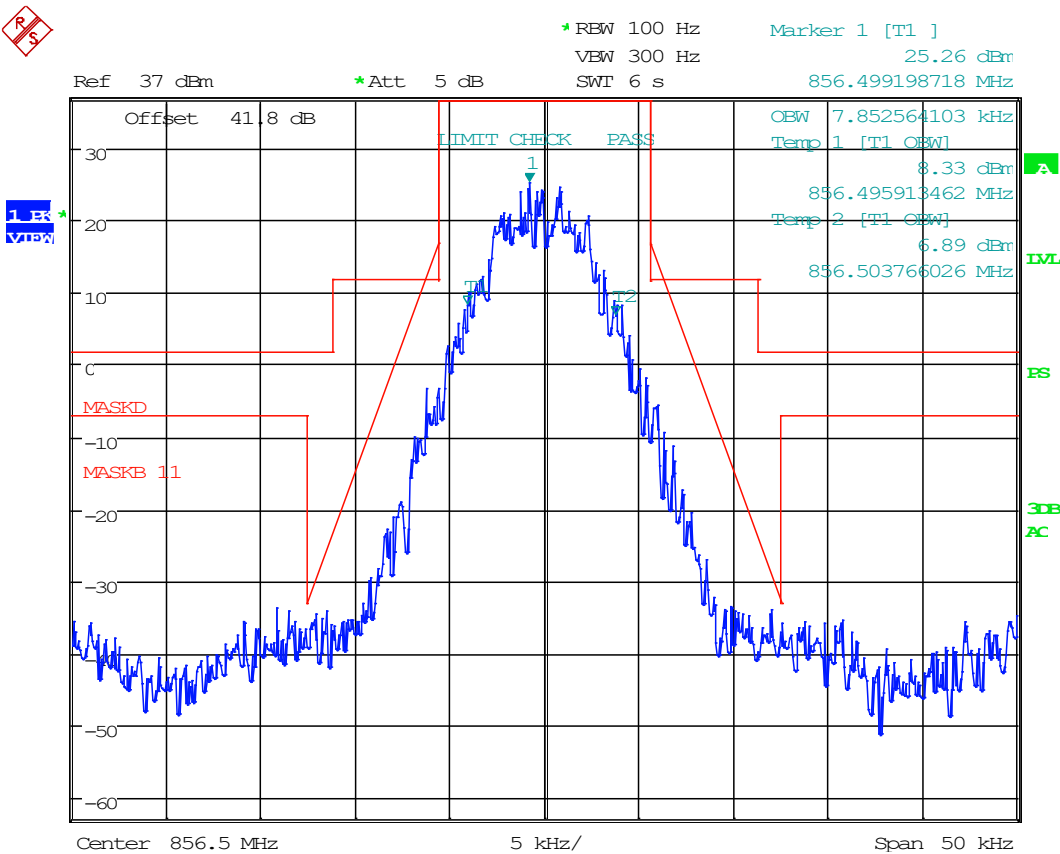
800 MHz Band, Downlink, 25k FM, AGC +3 dB



Date: 31.JUL.2020 13:40:51

EMISSION MASK & IVO

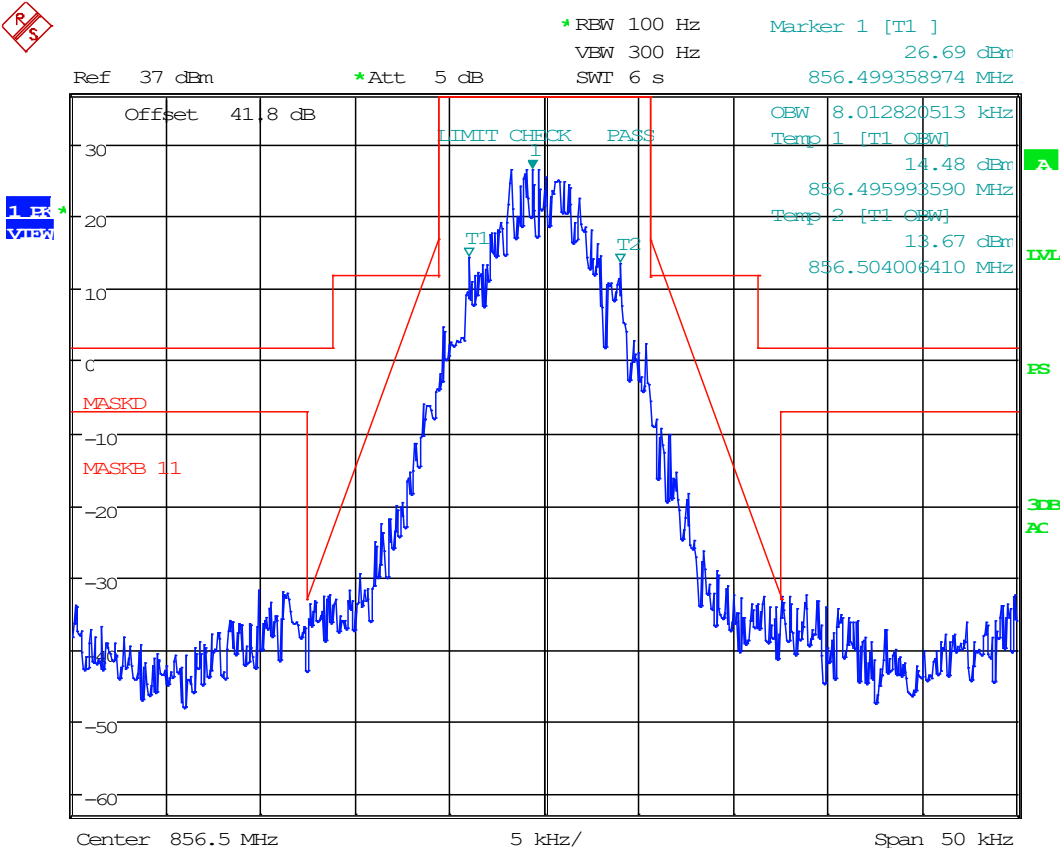
800 MHz Band, Downlink, C4FM, AGC



Date: 29.JUL.2020 15:41:57

EMISSION MASK & IVO

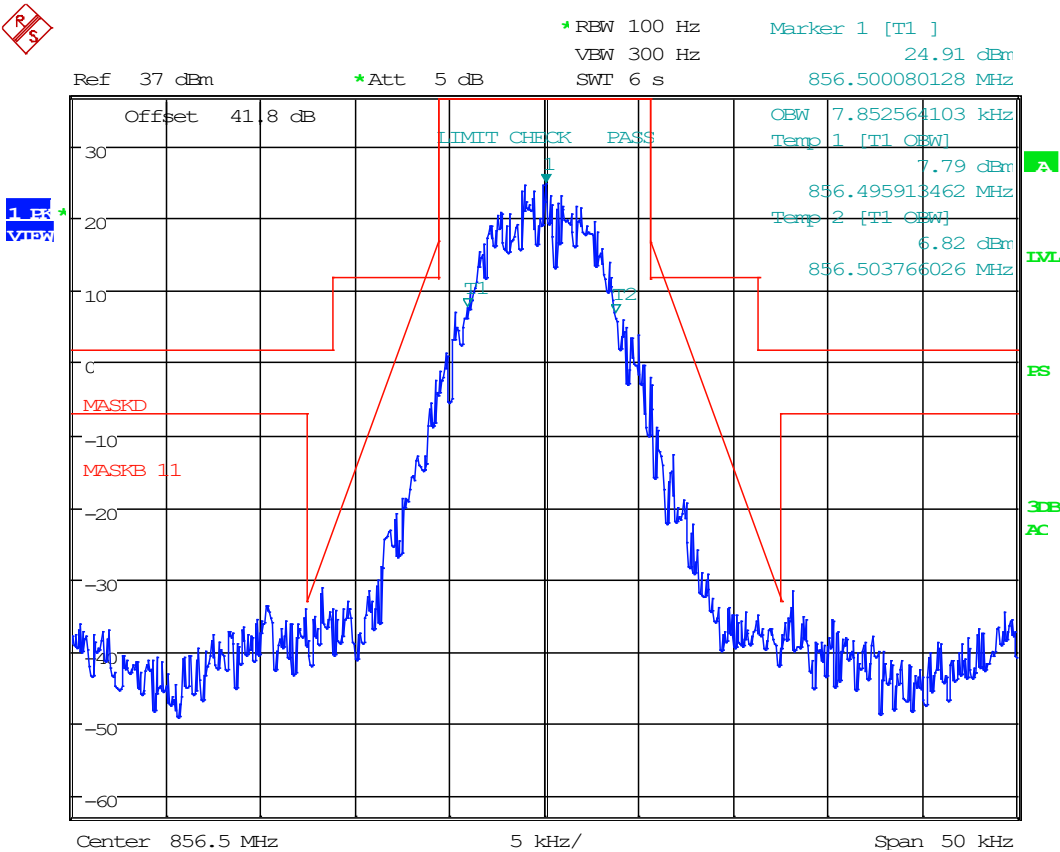
800 MHz Band, Downlink, C4FM, AGC +3 dB



Date: 29.JUL.2020 15:37:46

EMISSION MASK & IVO

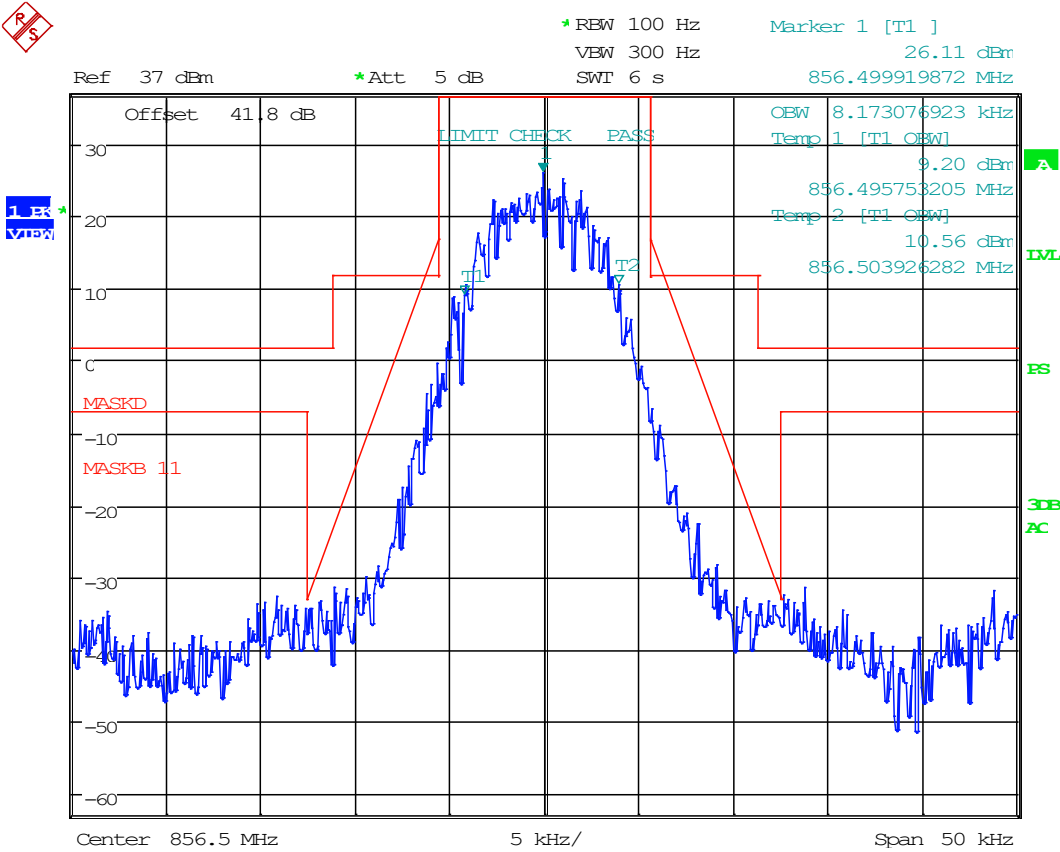
800 MHz Band, Downlink, H-CPM, AGC



Date: 29.JUL.2020 15:43:25

EMISSION MASK & IVO

800 MHz Band, Downlink, H-CPM, AGC +3 DB

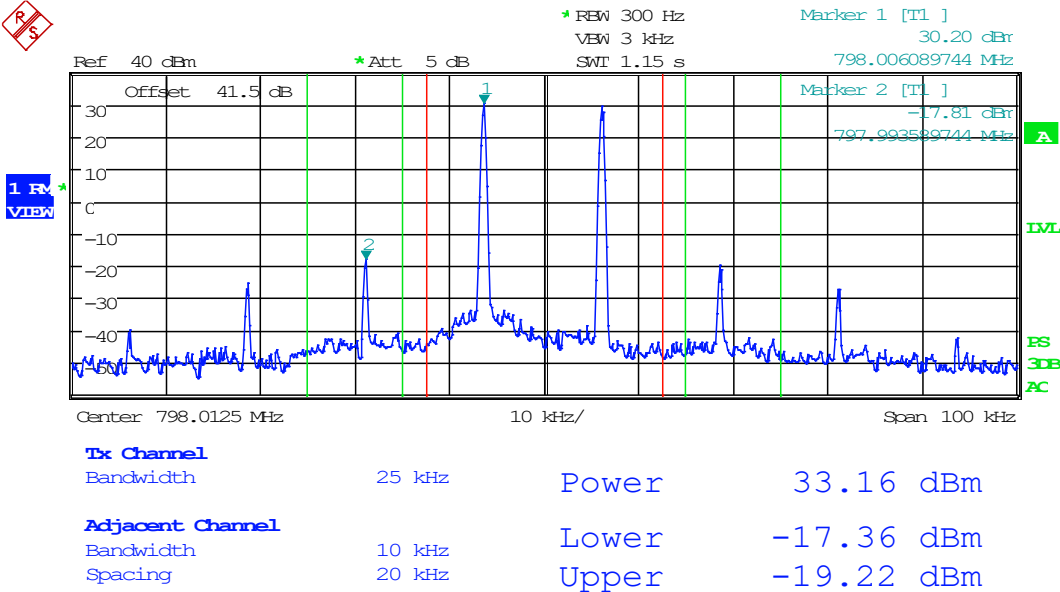


Date: 29.JUL.2020 15:44:19

KDB 935210 4.7.2 INTERMODULATION

Test Engineer: FR
Test Date: JUL 30, 2020

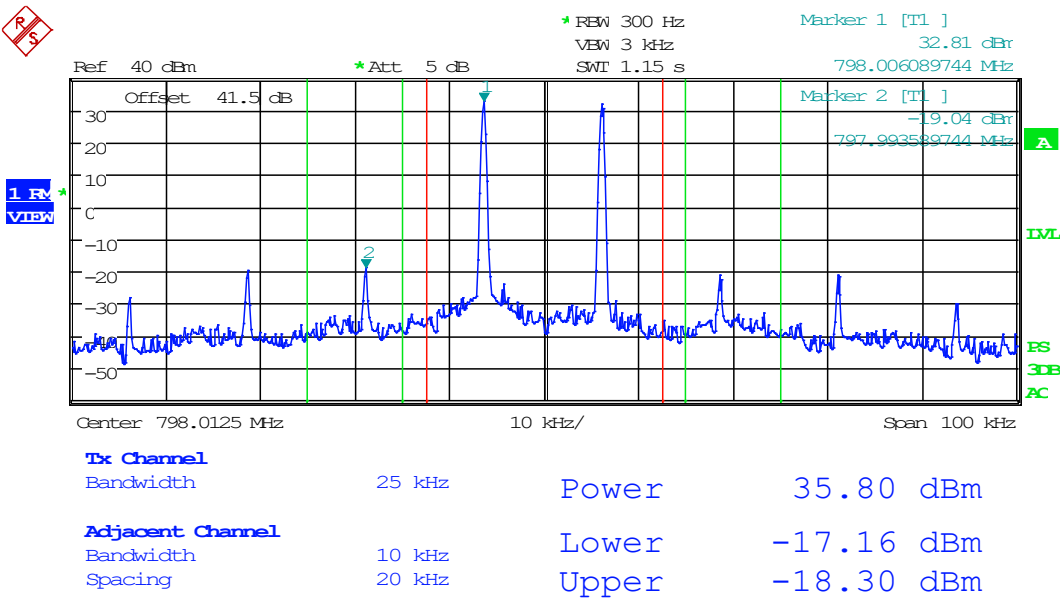
700 MHz Band, 12.5k, At AGC



Date: 30.JUL.2020 13:39:10

INTERMODULATION

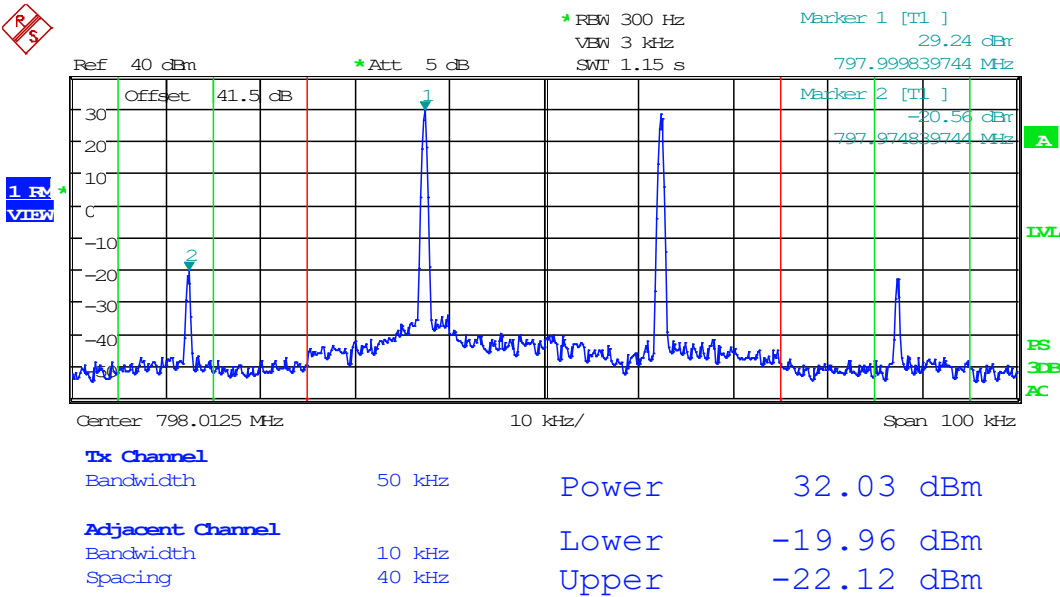
700 MHz Band, 12.5k, At AGC +3 dB



Date: 30.JUL.2020 13:39:58

INTERMODULATION

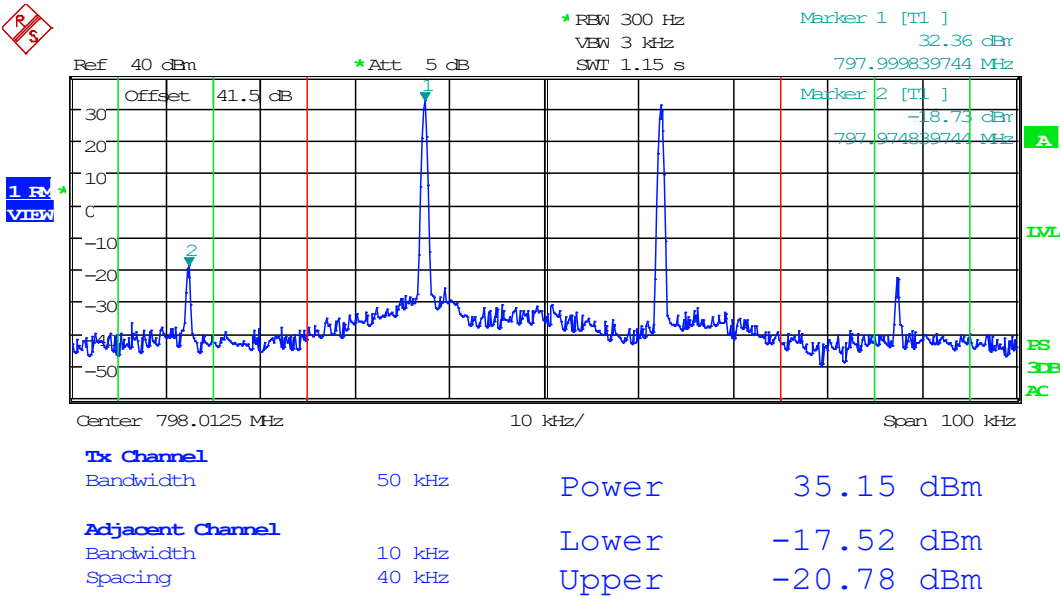
700 MHz Band, 25K, At AGC



Date: 30.JUL.2020 13:41:57

INTERMODULATION

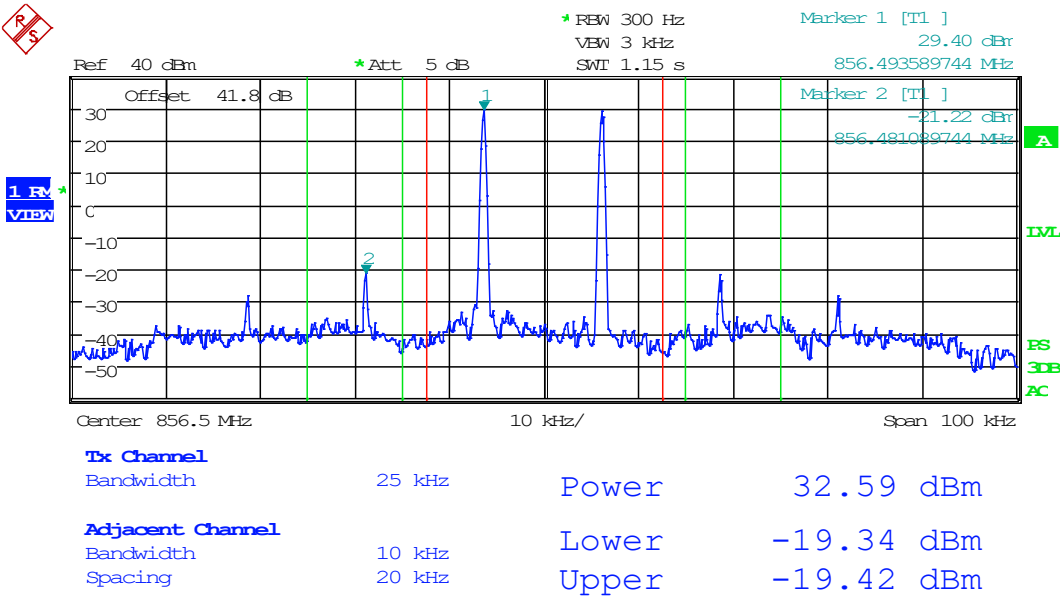
700 MHz Band, 25K, At AGC +3 dB



Date: 30.JUL.2020 13:41:10

INTERMODULATION

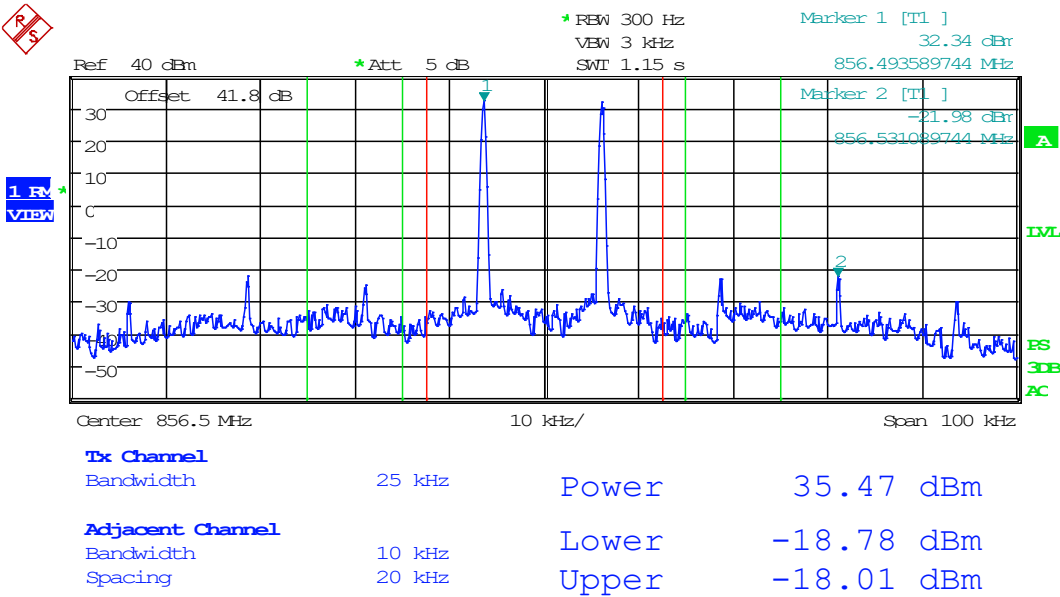
800 MHz Band, 12.5k, At AGC



Date: 29.JUL.2020 15:59:40

INTERMODULATION

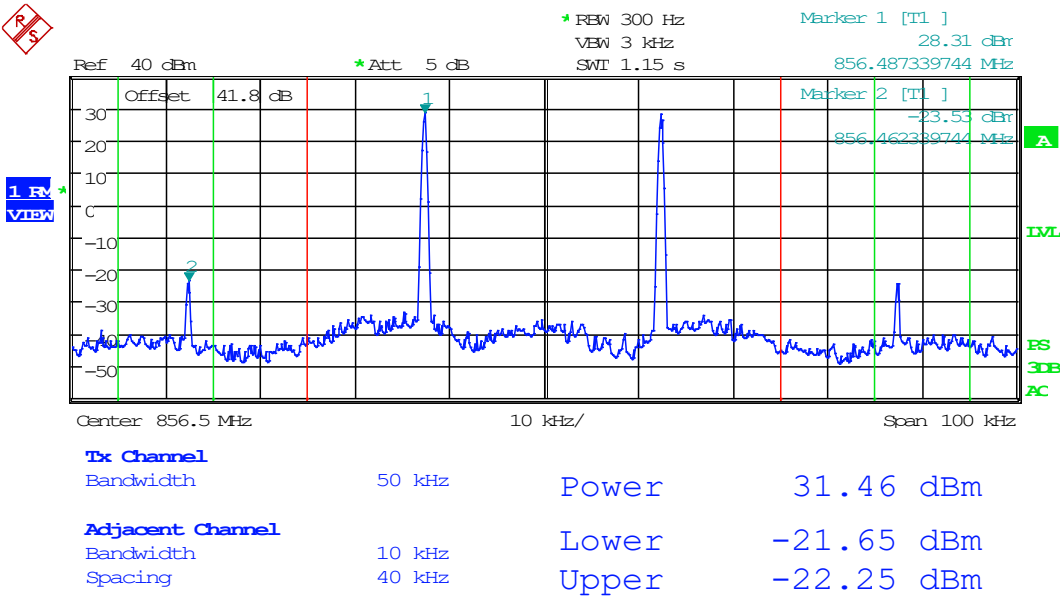
800 MHz Band, 12.5k, At AGC +3 dB



Date: 29.JUL.2020 16:02:36

INTERMODULATION

800 MHz Band, 25K, At AGC



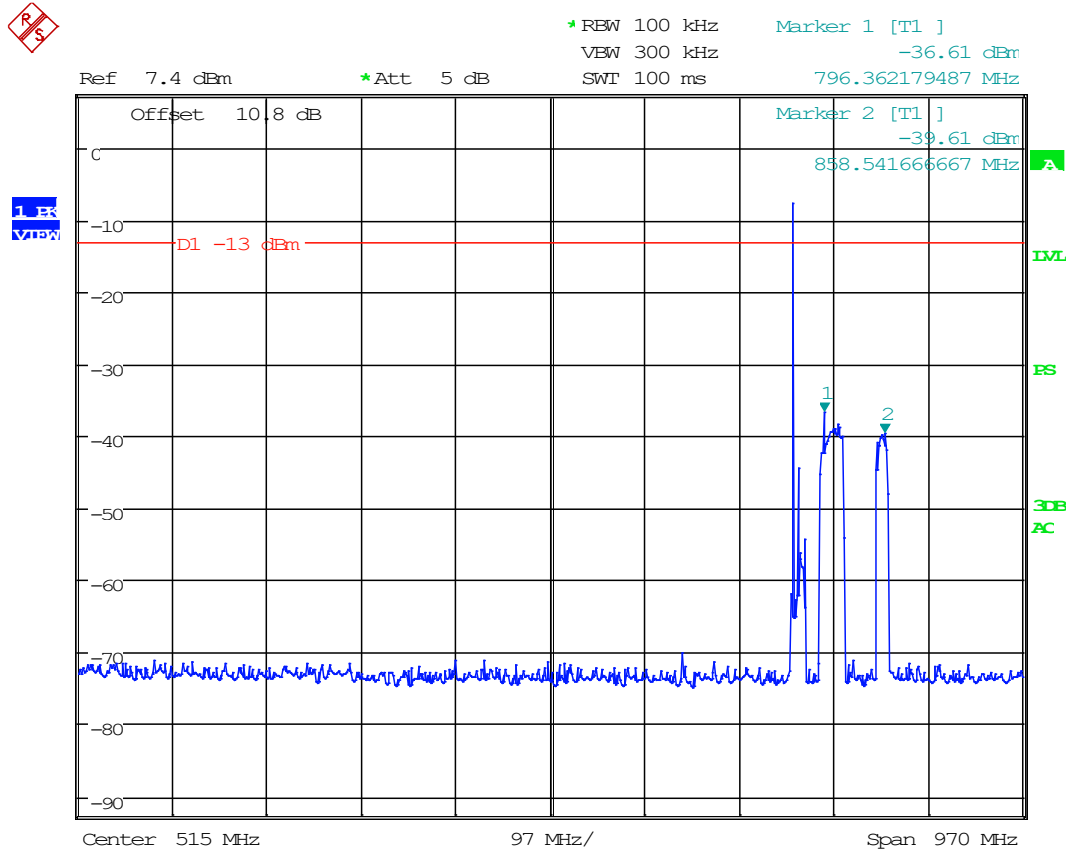
Date: 29.JUL.2020 16:04:34

2.1051 CONDUCTED SPURIOUS EMISSIONS

KDB 935210 4.7.3 CONDUCTED SPURIOUS EMISSIONS

Test Engineer: FR
Test Date: JUL 31 2020

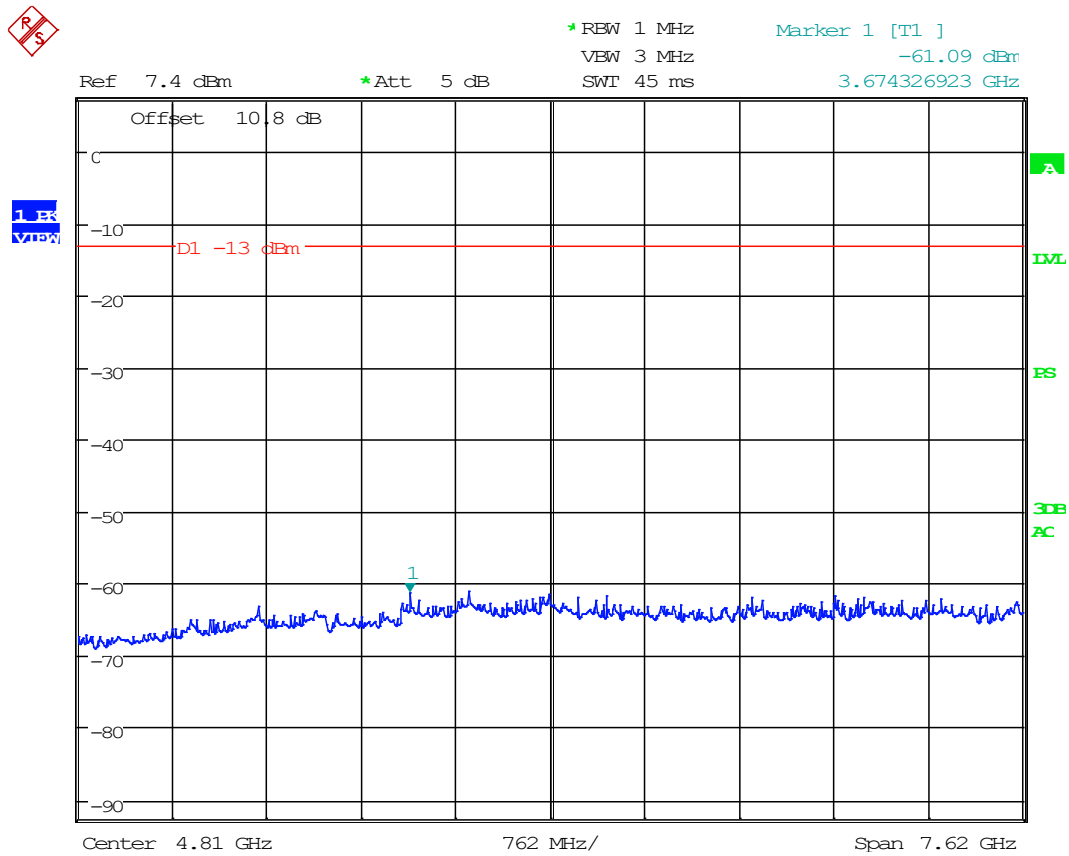
763.0125 MHz, Downlink, Below 1 GHz



Date: 30.JUL.2020 17:13:09

Conducted Spurious Emissions

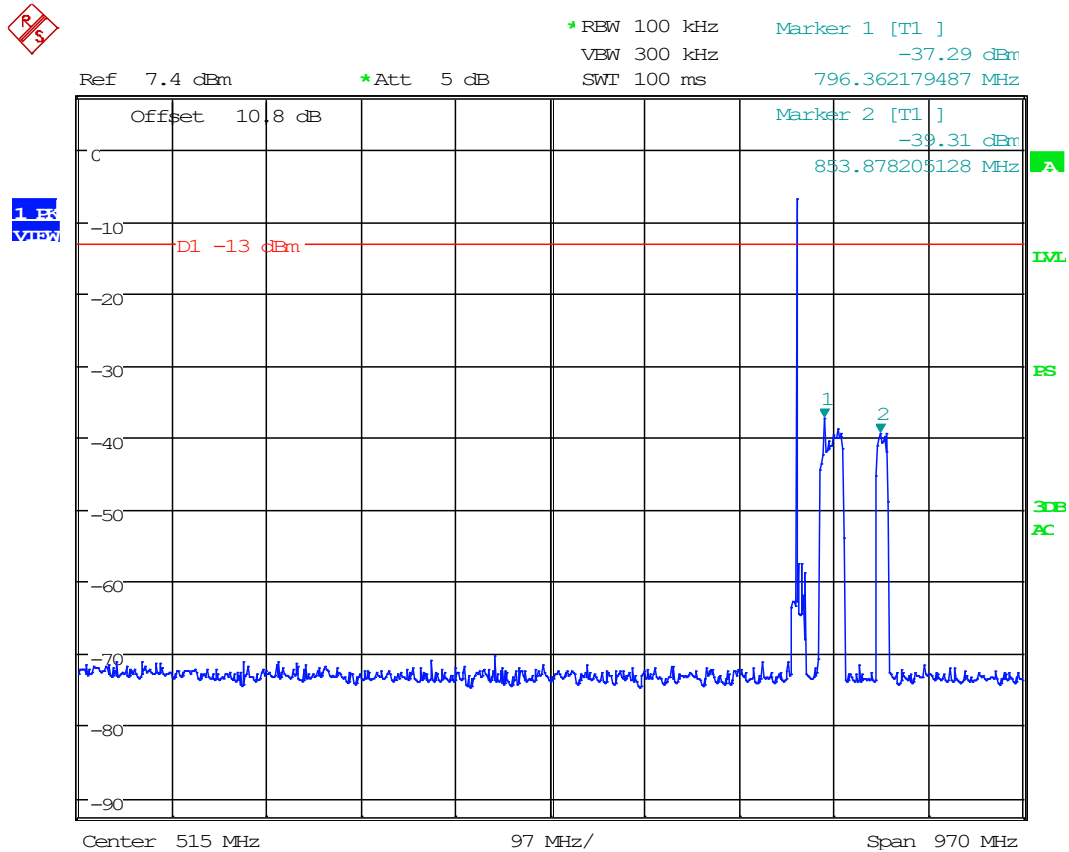
763.0125 MHz, Downlink, Above 1 GHz



Date: 30.JUL.2020 18:36:35

Conducted Spurious Emissions

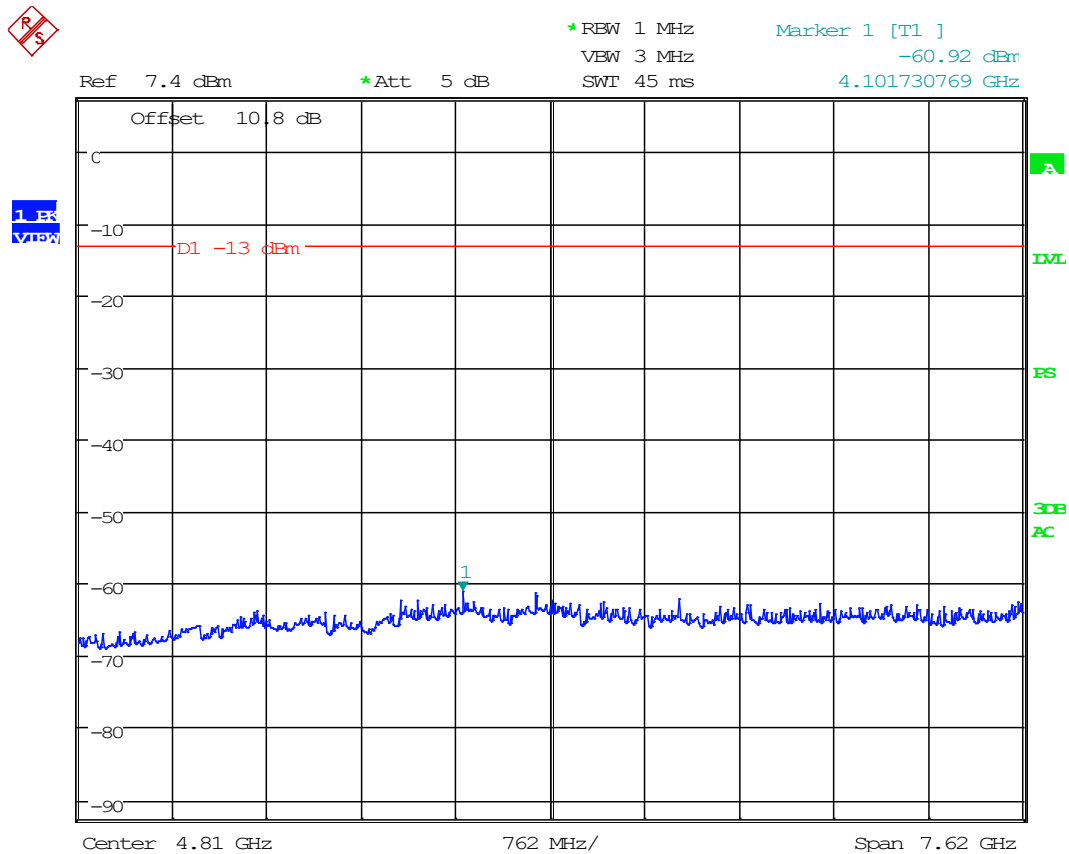
768.0125 MHz, Downlink, Below 1 GHz



Date: 30.JUL.2020 17:03:27

Conducted Spurious Emissions

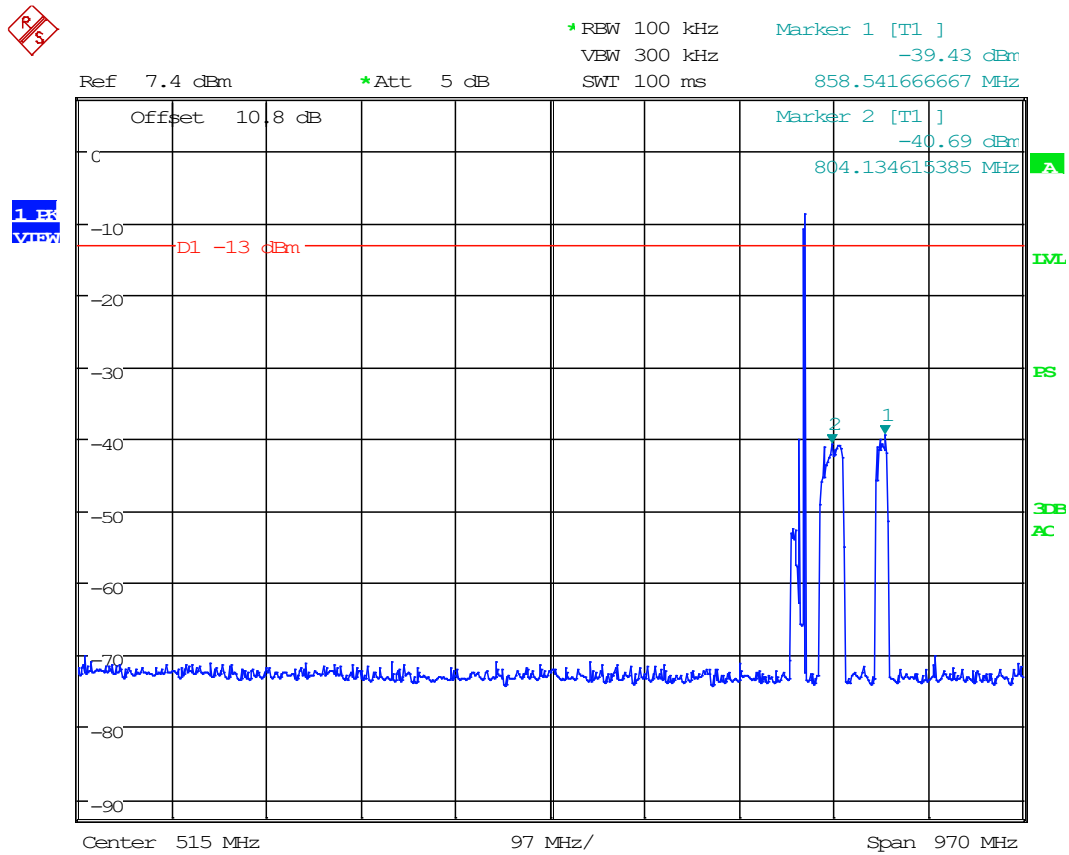
768.0125 MHz, Downlink, Above 1 GHz



Date: 30.JUL.2020 18:35:49

Conducted Spurious Emissions

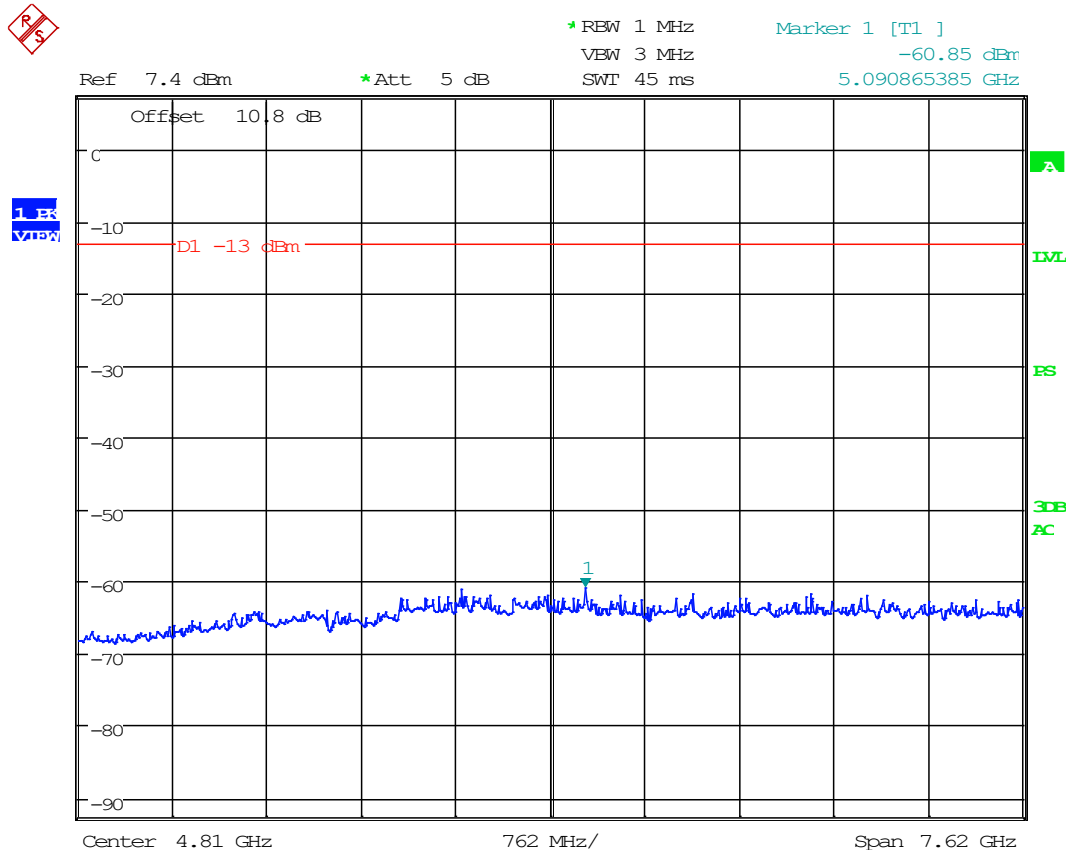
774.9875 MHz, Downlink, Below 1 GHz



Date: 30.JUL.2020 17:19:46

Conducted Spurious Emissions

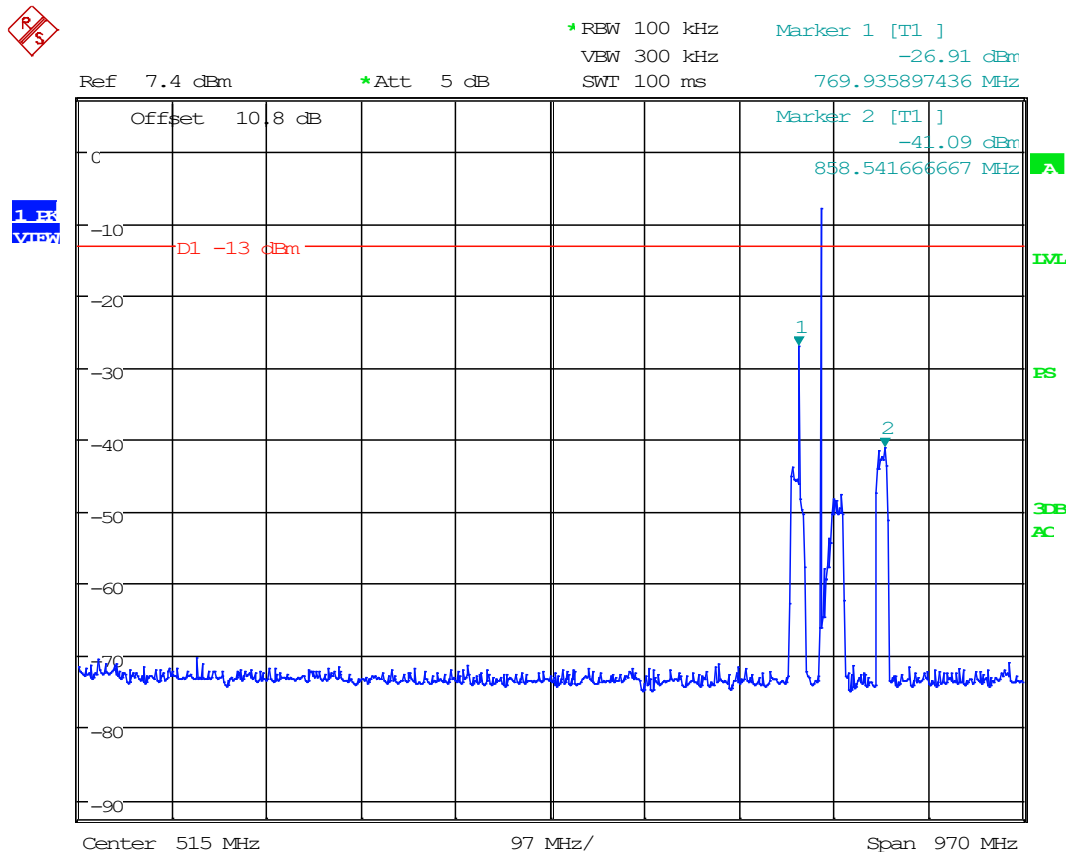
774.9875 MHz, Downlink, Above 1 GHz



Date: 30.JUL.2020 18:35:06

Conducted Spurious Emissions

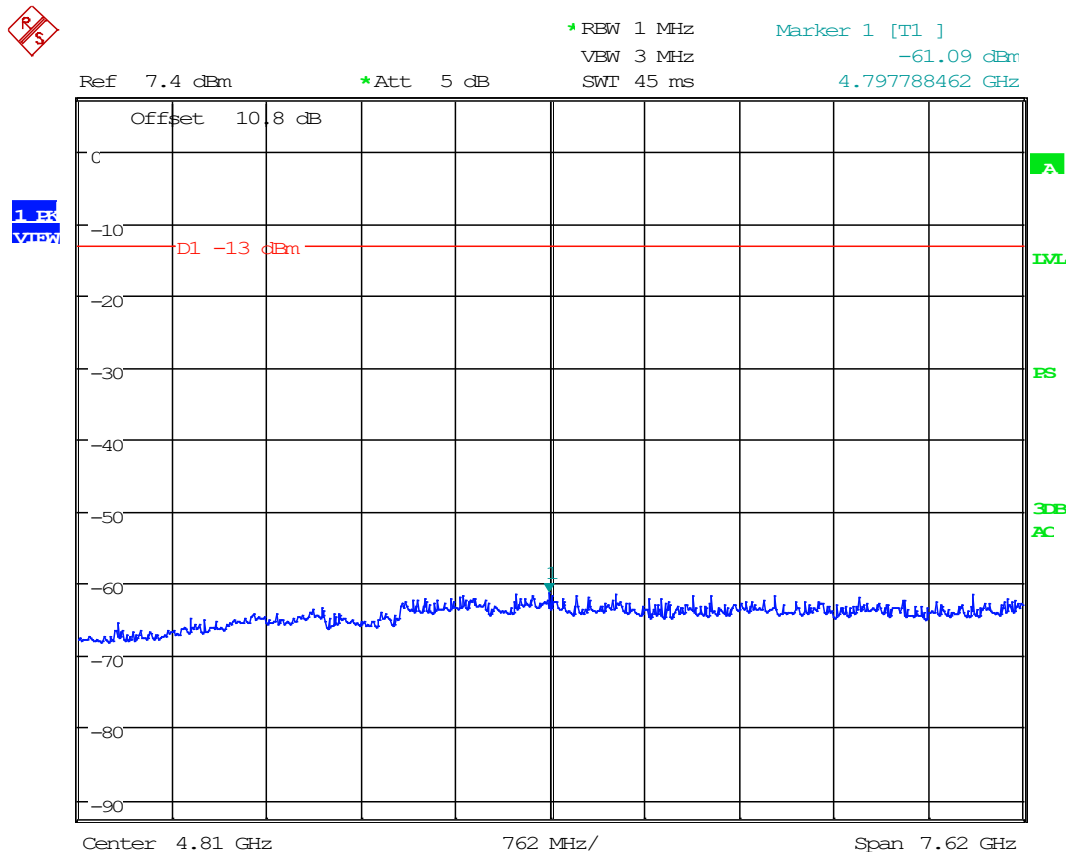
793.0125 MHz, Uplink, Below 1 GHz



Date: 30.JUL.2020 17:24:58

Conducted Spurious Emissions

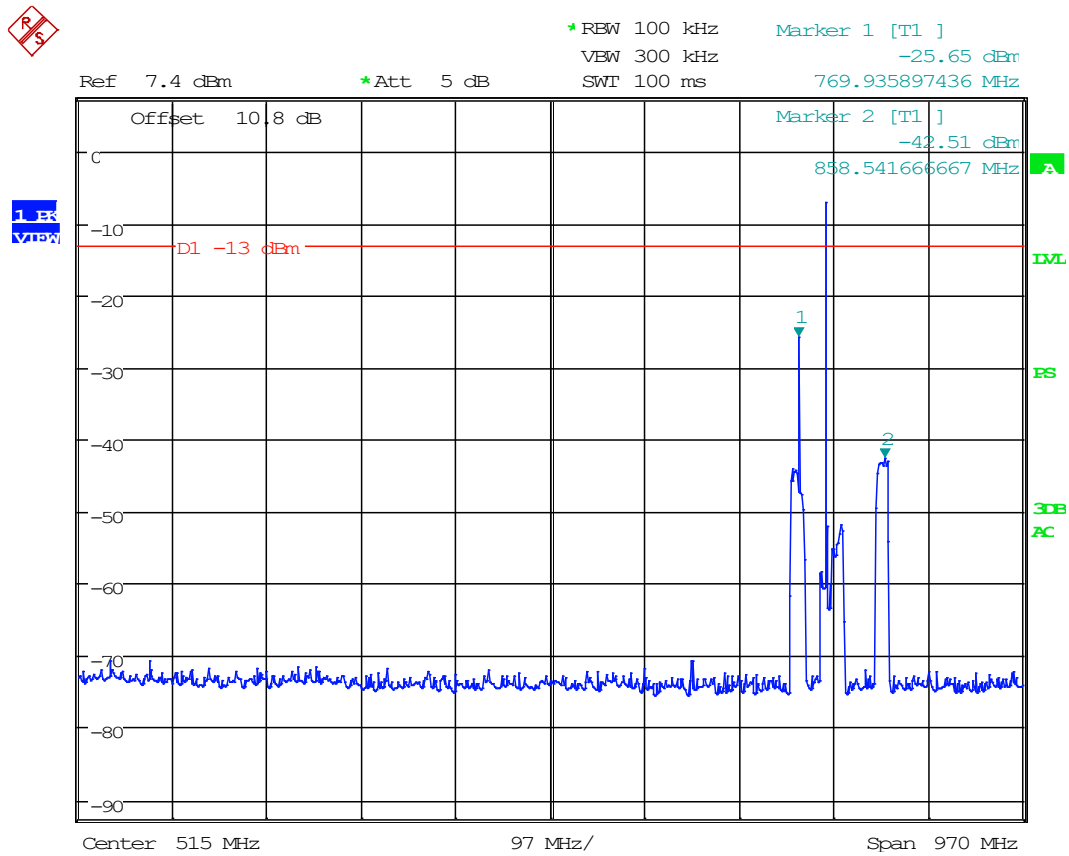
793.0125 MHz, Uplink, Above 1 GHz



Date: 30.JUL.2020 18:33:59

Conducted Spurious Emissions

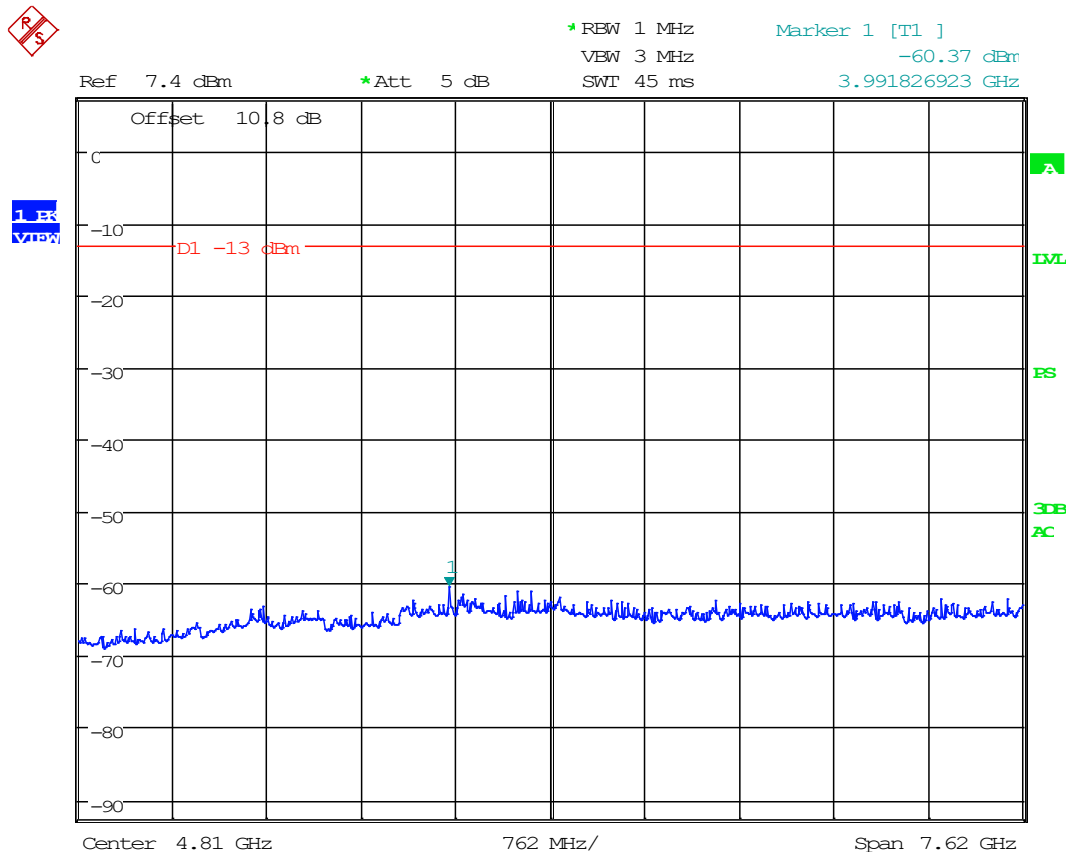
798.0125 MHz, Uplink, Below 1 GHz



Date: 30.JUL.2020 17:47:10

Conducted Spurious Emissions

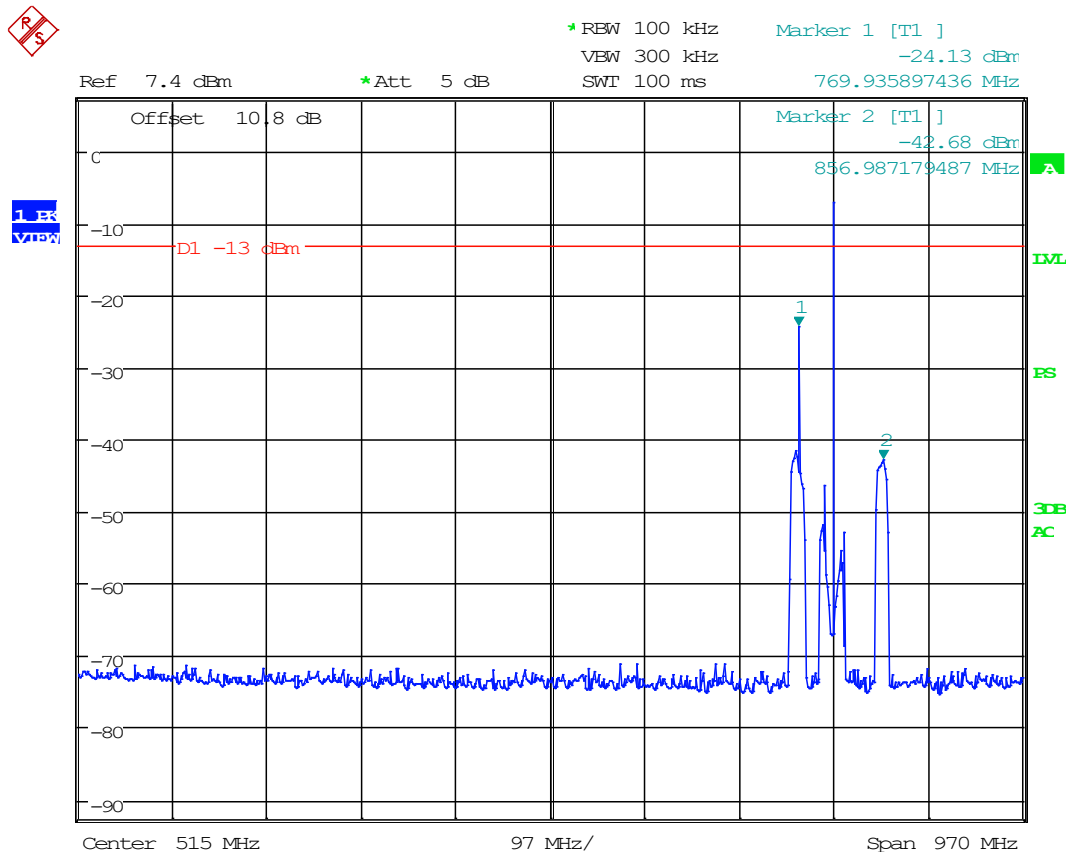
798.0125 MHz, Uplink, Above 1 GHz



Date: 30.JUL.2020 18:32:56

Conducted Spurious Emissions

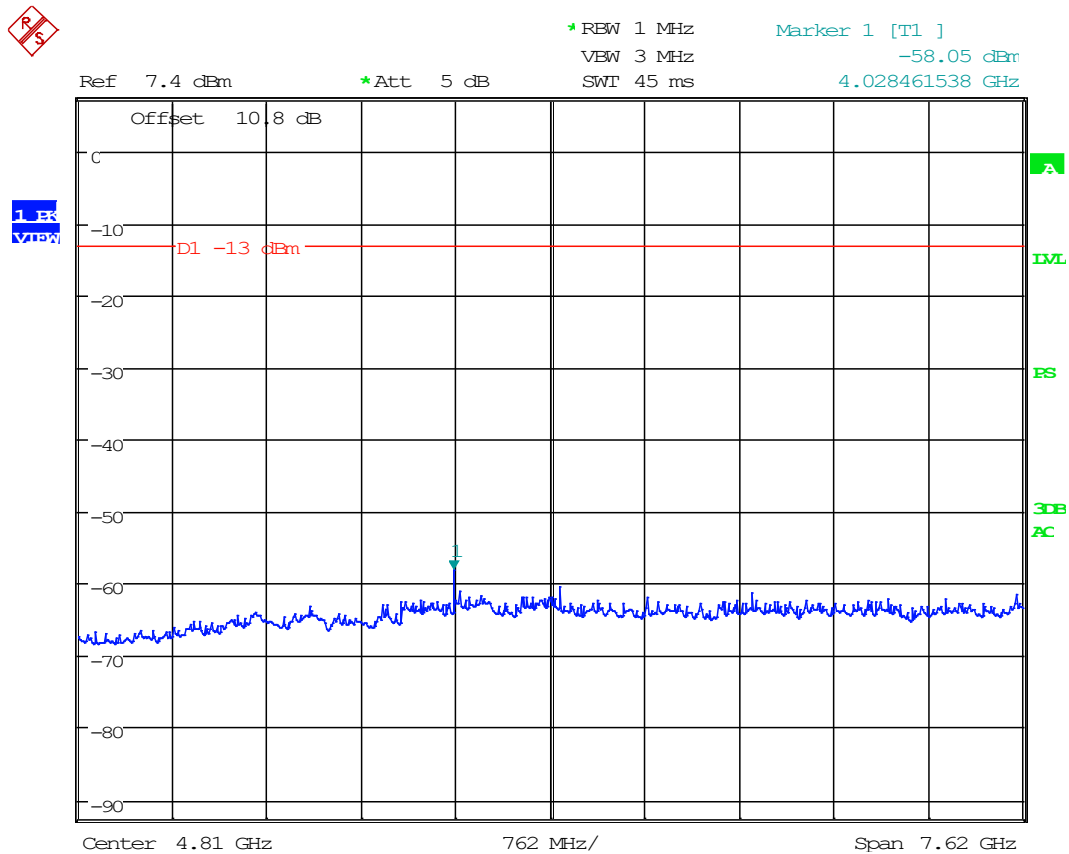
804.9875 MHz, Uplink, Below 1 GHz



Date: 30.JUL.2020 17:50:54

Conducted Spurious Emissions

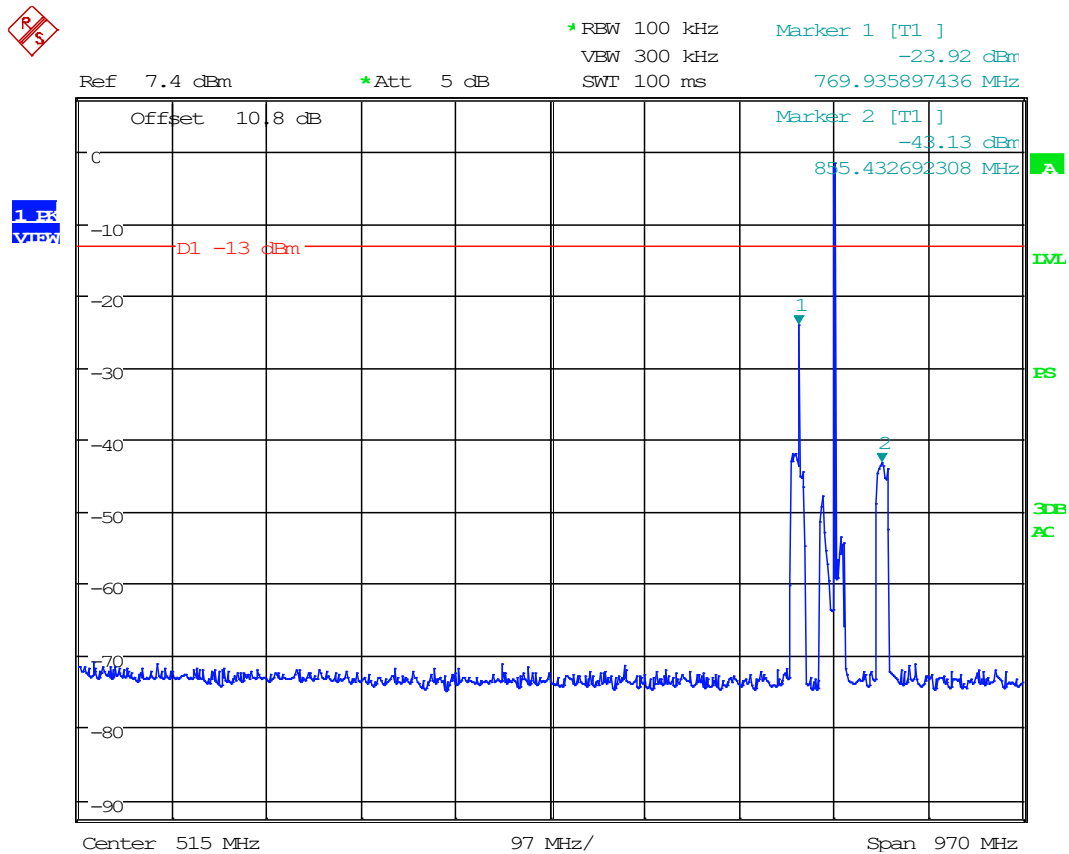
804.9875 MHz, Uplink, Above 1 GHz



Date: 30.JUL.2020 18:31:25

Conducted Spurious Emissions

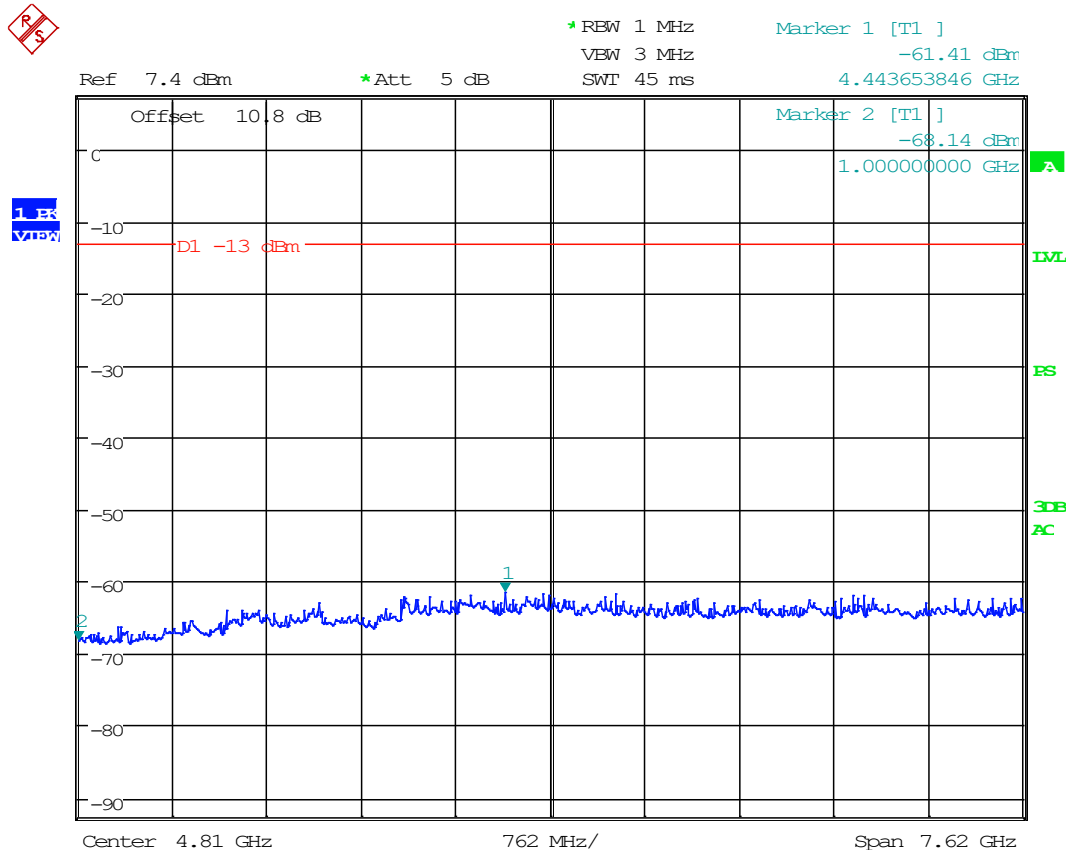
806.0125 MHz, Uplink, Below 1 GHz



Date: 30.JUL.2020 18:17:40

Conducted Spurious Emissions

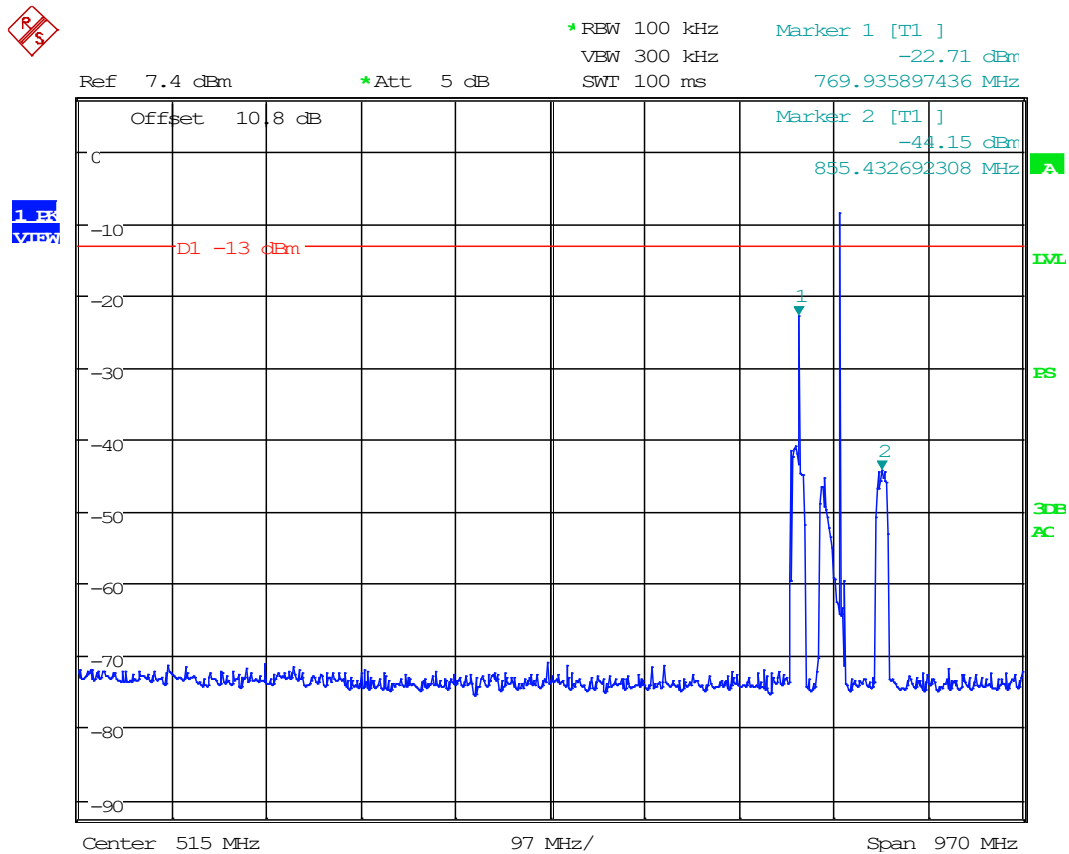
806.0125 MHz, Uplink, Above 1 GHz



Date: 30.JUL.2020 18:28:29

Conducted Spurious Emissions

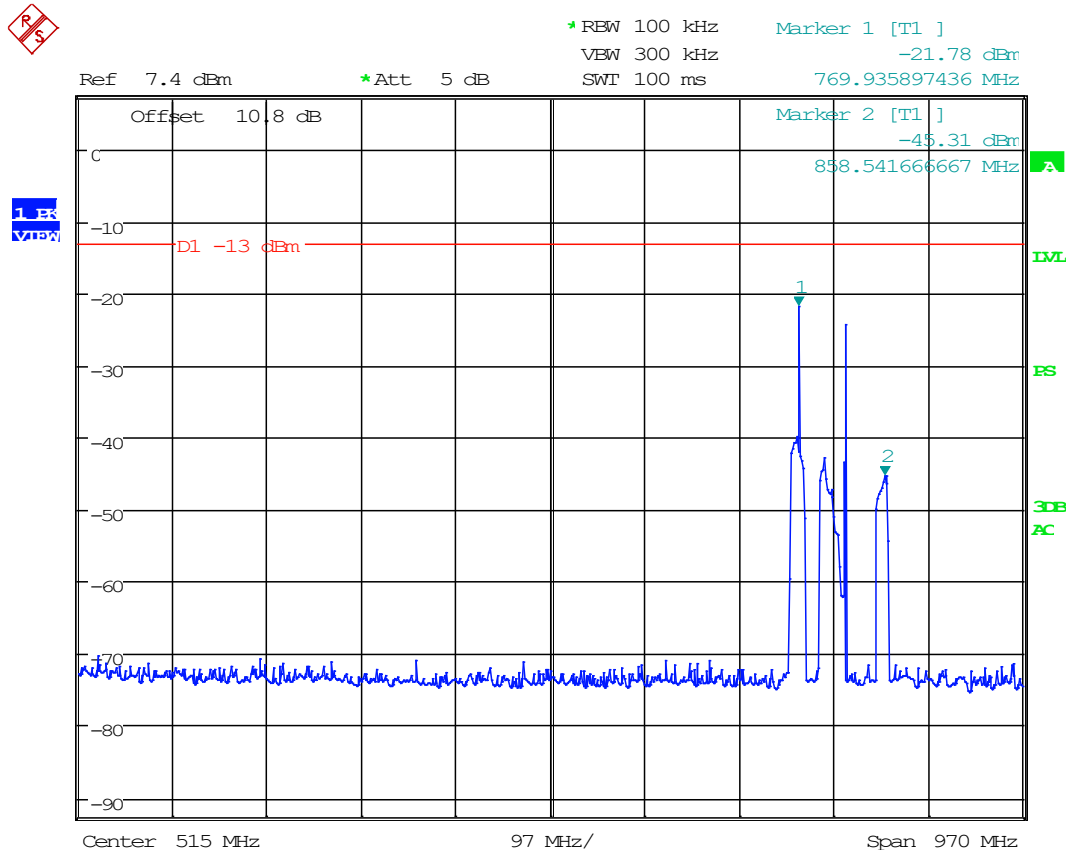
811.5 MHz, Uplink, Below 1 GHz



Date: 30.JUL.2020 18:22:59

Conducted Spurious Emissions

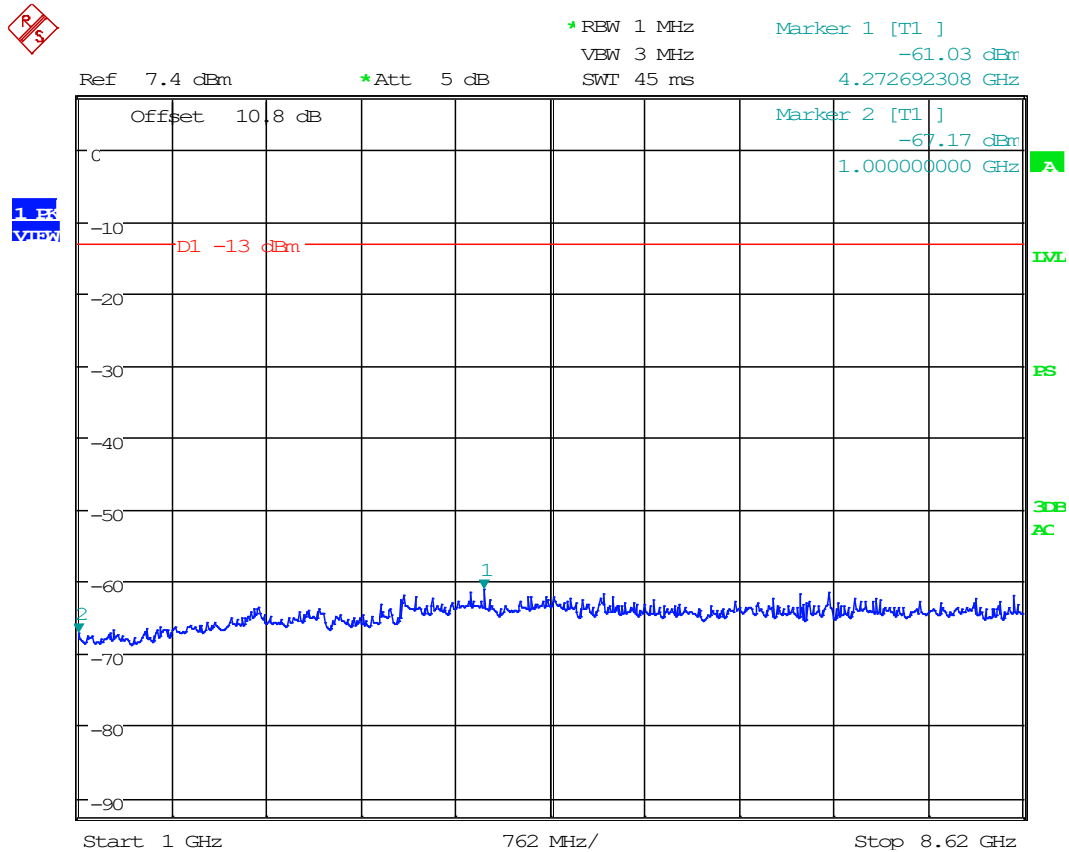
816.9875 MHz, Uplink, Below 1 GHz



Date: 30.JUL.2020 18:26:03

Conducted Spurious Emissions

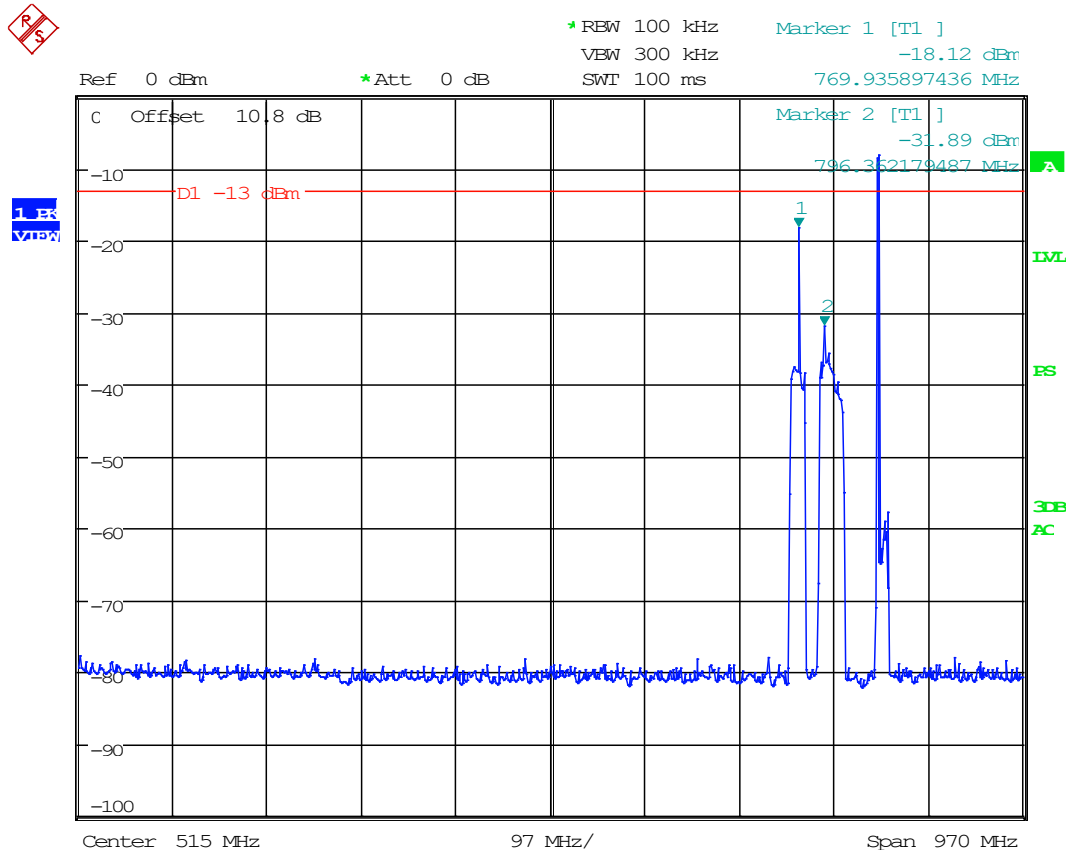
816.9875 MHz, Uplink, Above 1 GHz



Date: 30.JUL.2020 18:26:36

Conducted Spurious Emissions

851.0125 MHz, Downlink, Below 1 GHz

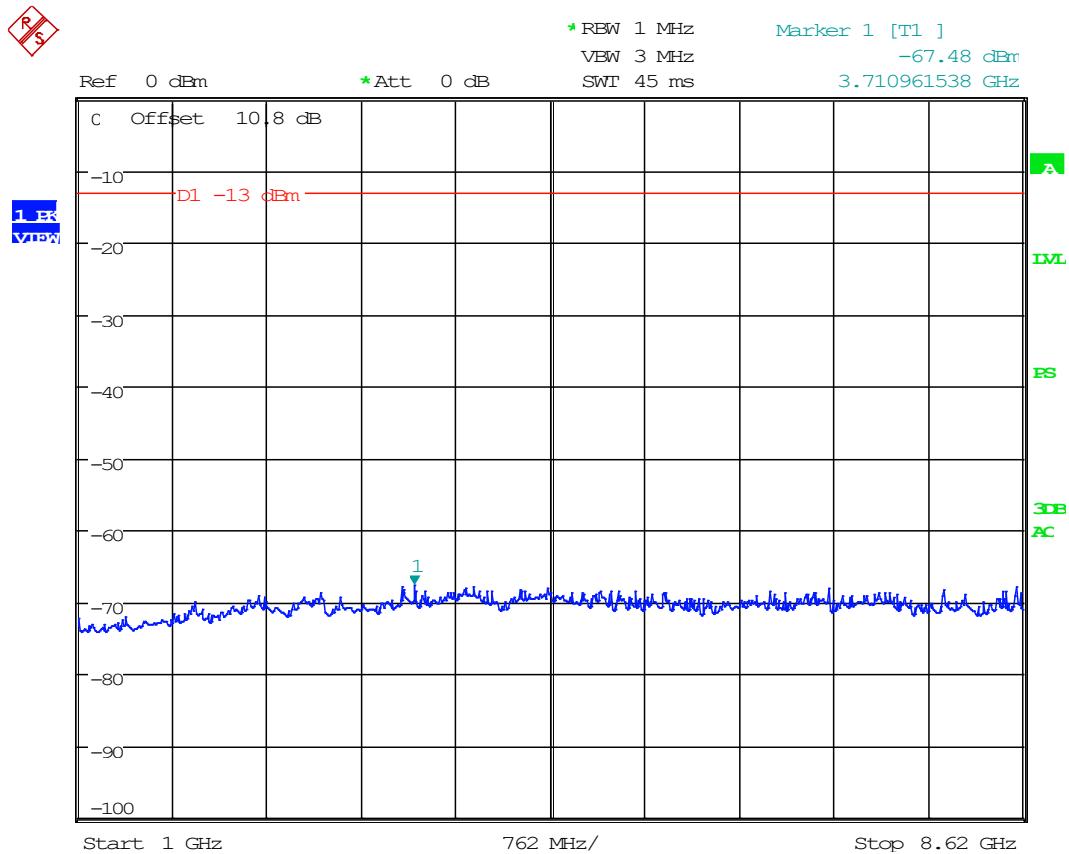


Date: 31.JUL.2020 10:53:36



Conducted Spurious Emissions

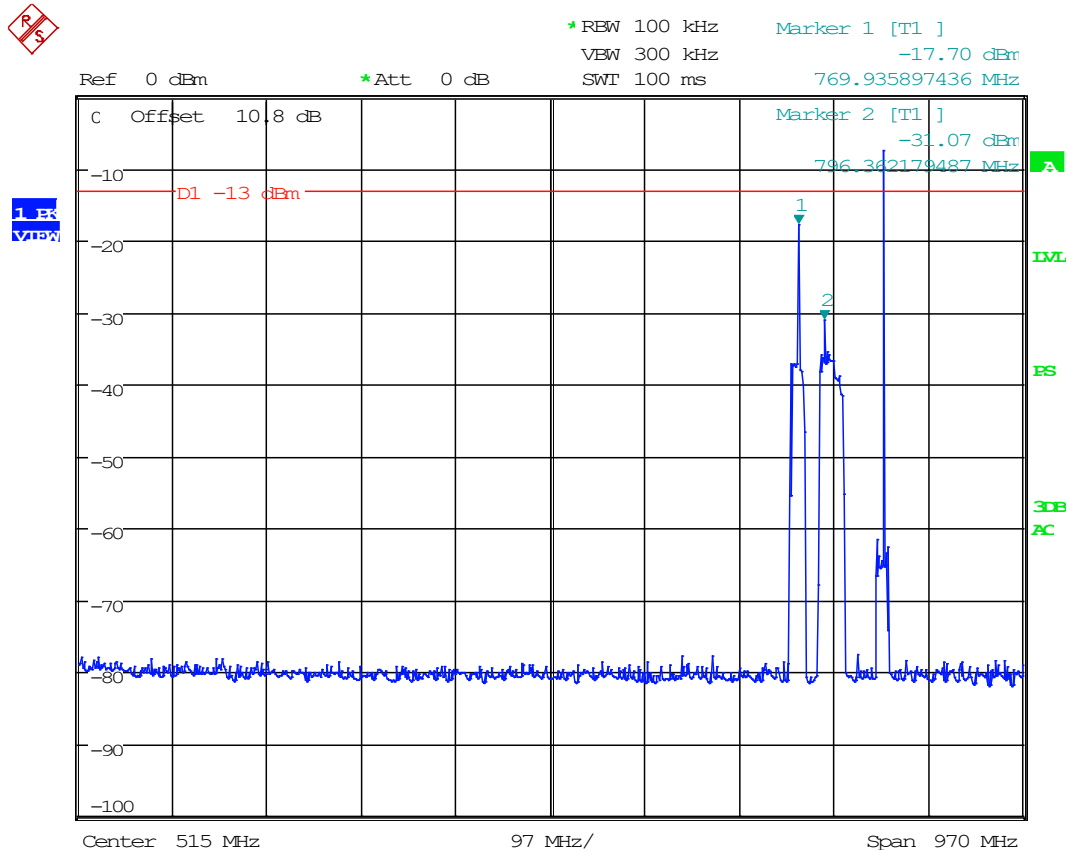
851.0125 MHz, Downlink, Above 1 GHz



Date: 31.JUL.2020 10:47:34

Conducted Spurious Emissions

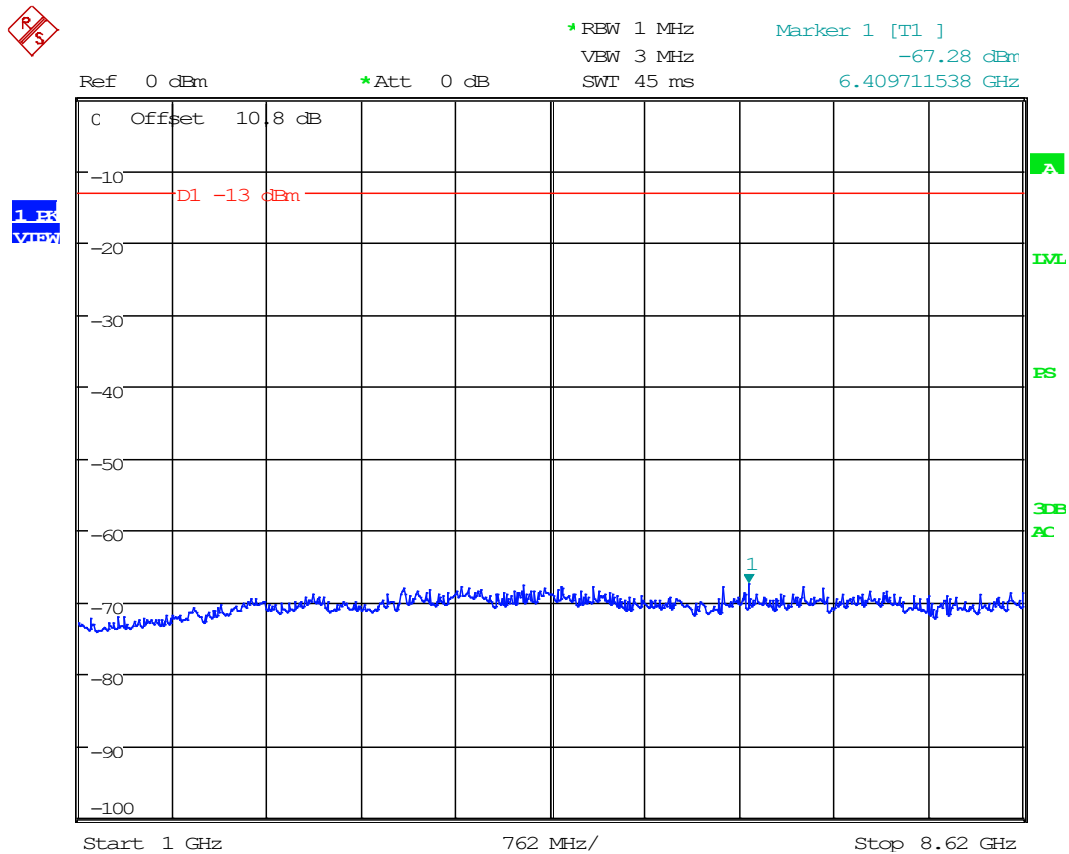
856.5 MHz, Downlink, Below 1 GHz



Date: 31.JUL.2020 10:58:28

Conducted Spurious Emissions

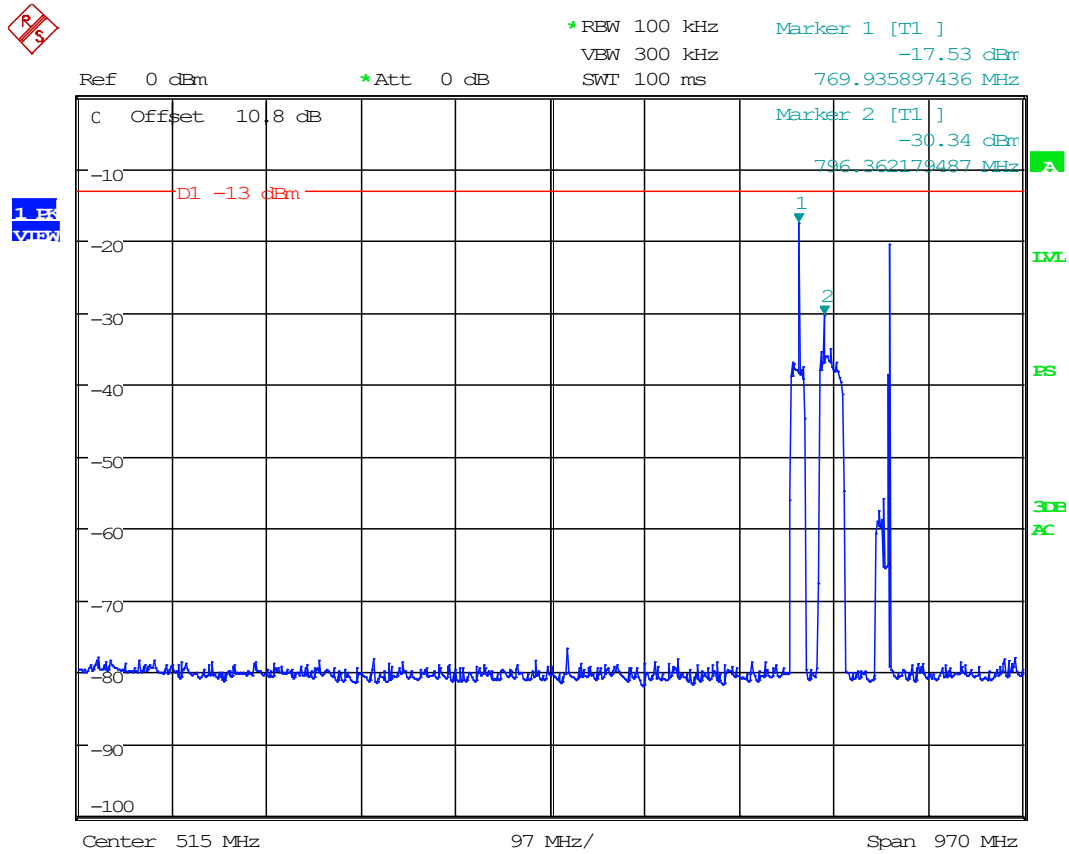
856.5 MHz, Downlink, Above 1 GHz



Date: 31.JUL.2020 10:59:12

Conducted Spurious Emissions

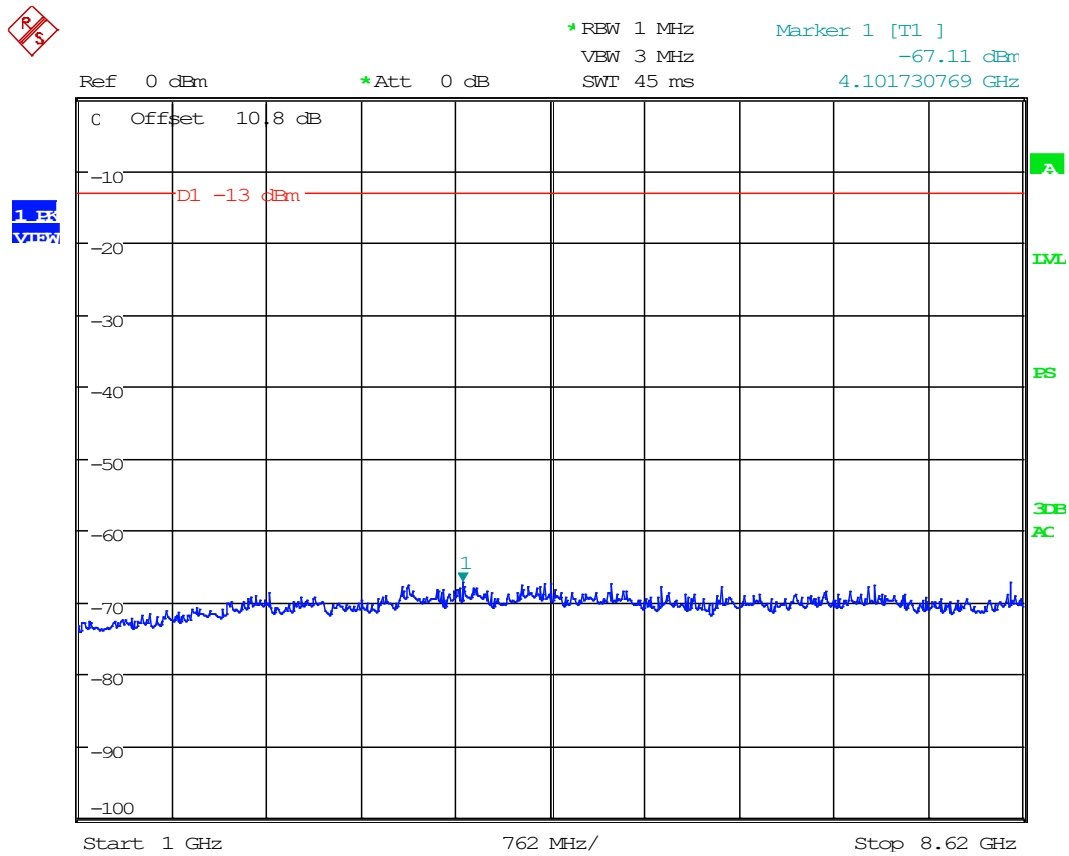
861.9875 MHz, Downlink, Below 1 GHz



Date: 31.JUL.2020 11:03:17

Conducted Spurious Emissions

861.9875 MHz, Downlink, Above 1 GHz



Date: 31.JUL.2020 11:03:55

2.1053 FIELD STRENGTH OF SPURIOUS EMISSIONS**KDB 935210 4.9 FIELD STRENGTH OF SPURIOUS EMISSIONS**

Test Engineer: _____ FR, TR

Test Date: _____ AUG 3 2020

Note: For all measurements greater than 20 dB below limits, the 6 highest emissions were shown.**763.0125 MHz, Downlink**

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 763.01	3052.05	PK	20.19	H	6.41	32.64	3.00	59.23	-38.14	-13.00	25.14
763.01	3052.05	PK	19.70	V	6.41	32.64	3.00	58.74	-38.63	-13.00	25.63
763.01	3815.06	PK	17.17	V	6.38	33.16	3.00	56.71	-40.66	-13.00	27.66
763.01	3815.06	PK	16.90	H	6.38	33.16	3.00	56.44	-40.93	-13.00	27.93
763.01	2289.04	PK	17.54	H	5.48	31.46	3.00	54.47	-42.90	-13.00	29.90
763.01	2289.04	PK	17.20	V	5.48	31.46	3.00	54.13	-43.24	-13.00	30.24

768.0125 MHz, Downlink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 768.01	4608.08	PK	11.20	V	7.55	34.03	3.00	52.79	-44.59	-13.00	31.59
768.01	4608.08	PK	10.53	H	7.55	34.03	3.00	52.12	-45.26	-13.00	32.26
768.01	3072.05	PK	11.98	V	6.43	32.69	3.00	51.10	-46.28	-13.00	33.28
768.01	3072.05	PK	11.97	H	6.43	32.69	3.00	51.09	-46.29	-13.00	33.29
768.01	3840.06	PK	11.03	H	6.53	33.19	3.00	50.75	-46.63	-13.00	33.63
768.01	3840.06	PK	10.74	V	6.53	33.19	3.00	50.46	-46.92	-13.00	33.92

774.9875 MHz, Downlink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 774.99	3099.95	PK	13.11	V	6.45	32.76	3.00	52.32	-45.05	-13.00	32.05
774.99	4649.93	PK	10.54	H	7.45	33.90	3.00	51.89	-45.49	-13.00	32.49
774.99	3874.94	PK	11.88	V	6.73	33.22	3.00	51.83	-45.55	-13.00	32.55
774.99	4649.93	PK	10.10	V	7.45	33.90	3.00	51.45	-45.93	-13.00	32.93
774.99	3099.95	PK	11.74	H	6.45	32.76	3.00	50.95	-46.42	-13.00	33.42
774.99	3874.94	PK	10.82	H	6.73	33.22	3.00	50.77	-46.61	-13.00	33.61

Conducted Spurious Emissions

793.0125 MHz, Uplink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 793.01	4758.08	PK	12.22	V	6.96	33.91	3.00	53.09	-44.29	-13.00	31.29
793.01	3965.06	PK	11.76	V	7.26	33.38	3.00	52.40	-44.97	-13.00	31.97
793.01	3965.06	PK	11.33	H	7.26	33.38	3.00	51.97	-45.40	-13.00	32.40
793.01	3172.05	PK	12.64	H	6.58	32.73	3.00	51.95	-45.43	-13.00	32.43
793.01	3172.05	PK	12.49	V	6.58	32.73	3.00	51.80	-45.58	-13.00	32.58
793.01	4758.08	PK	9.53	H	6.96	33.91	3.00	50.40	-46.98	-13.00	33.98

798.0125 MHz, Uplink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 798.01	3192.05	PK	13.22	V	6.62	32.69	3.00	52.53	-44.85	-13.00	31.85
798.01	3990.06	PK	11.11	V	7.26	33.39	3.00	51.77	-45.61	-13.00	32.61
798.01	4788.08	PK	10.61	H	7.05	33.93	3.00	51.58	-45.79	-13.00	32.79
798.01	4788.08	PK	10.43	V	7.05	33.93	3.00	51.40	-45.97	-13.00	32.97
798.01	3192.05	PK	11.67	H	6.62	32.69	3.00	50.98	-46.40	-13.00	33.40
798.01	3990.06	PK	10.32	H	7.26	33.39	3.00	50.98	-46.40	-13.00	33.40

804.9875 MHz, Uplink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 804.99	4829.93	PK	11.57	H	7.17	33.94	3.00	52.68	-44.70	-13.00	31.70
804.99	4829.93	PK	10.73	V	7.17	33.94	3.00	51.84	-45.54	-13.00	32.54
804.99	4024.94	PK	10.94	H	7.23	33.39	3.00	51.55	-45.82	-13.00	32.82
804.99	3219.95	PK	11.96	V	6.63	32.68	3.00	51.27	-46.11	-13.00	33.11
804.99	3219.95	PK	11.64	H	6.63	32.68	3.00	50.95	-46.43	-13.00	33.43
804.99	4024.94	PK	9.57	V	7.23	33.39	3.00	50.18	-47.19	-13.00	34.19

Conducted Spurious Emissions

806.0125 MHz, Uplink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 806.01	3224.05	PK	12.98	H	6.64	32.68	3.00	52.29	-45.08	-13.00	32.08
806.01	4836.08	PK	10.71	H	7.18	33.94	3.00	51.84	-45.54	-13.00	32.54
806.01	4836.08	PK	10.70	V	7.18	33.94	3.00	51.83	-45.55	-13.00	32.55
806.01	4030.06	PK	10.83	V	7.22	33.39	3.00	51.43	-45.94	-13.00	32.94
806.01	3224.05	PK	11.75	V	6.64	32.68	3.00	51.06	-46.31	-13.00	33.31
806.01	4030.06	PK	10.39	H	7.22	33.39	3.00	50.99	-46.38	-13.00	33.38

811.5 MHz, Uplink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 811.50	4869.00	PK	10.99	V	7.27	33.93	3.00	52.20	-45.18	-13.00	32.18
811.50	4869.00	PK	10.58	H	7.27	33.93	3.00	51.79	-45.59	-13.00	32.59
811.50	3246.00	PK	11.85	V	6.65	32.68	3.00	51.18	-46.20	-13.00	33.20
811.50	3246.00	PK	11.61	H	6.65	32.68	3.00	50.94	-46.44	-13.00	33.44
811.50	4057.50	PK	10.25	H	7.18	33.38	3.00	50.81	-46.57	-13.00	33.57
811.50	4057.50	PK	10.14	V	7.18	33.38	3.00	50.70	-46.68	-13.00	33.68

816.9875 MHz, Uplink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
• 816.99	4901.93	PK	12.29	V	7.51	33.92	3.00	53.71	-43.67	-13.00	30.67
816.99	4901.93	PK	11.73	H	7.51	33.92	3.00	53.15	-44.23	-13.00	31.23
816.99	3267.95	PK	12.23	V	6.67	32.66	3.00	51.56	-45.82	-13.00	32.82
816.99	4084.94	PK	10.95	H	7.14	33.39	3.00	51.48	-45.90	-13.00	32.90
816.99	4084.94	PK	10.63	V	7.14	33.39	3.00	51.16	-46.22	-13.00	33.22
816.99	3267.95	PK	11.43	H	6.67	32.66	3.00	50.76	-46.62	-13.00	33.62

Conducted Spurious Emissions

851.0125 MHz, Downlink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
851.01	2553.04	PK	13.17	H	5.70	32.60	3.00	51.46	-45.91	-13.00	32.91
851.01	3404.05	PK	11.62	H	6.80	32.65	3.00	51.06	-46.31	-13.00	33.31
851.01	4255.06	PK	10.02	H	7.22	33.35	3.00	50.59	-46.79	-13.00	33.79
851.01	3404.05	PK	11.13	V	6.80	32.65	3.00	50.57	-46.80	-13.00	33.80
851.01	4255.06	PK	9.76	V	7.22	33.35	3.00	50.33	-47.05	-13.00	34.05
851.01	335.90	PK	34.35	H	2.11	13.70	3.00	50.16	-47.22	-13.00	34.22

856.5 MHz, Downlink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
856.50	3426.00	PK	13.18	H	6.85	32.62	3.00	52.65	-44.73	-13.00	31.73
856.50	3426.00	PK	12.86	V	6.85	32.62	3.00	52.33	-45.05	-13.00	32.05
856.50	4282.50	PK	10.19	V	7.38	33.42	3.00	50.98	-46.39	-13.00	33.39
856.50	4282.50	PK	9.95	H	7.38	33.42	3.00	50.74	-46.63	-13.00	33.63
856.50	335.90	PK	34.22	V	2.11	13.70	3.00	50.03	-47.35	-13.00	34.35
856.50	2569.50	PK	10.90	H	5.73	32.53	3.00	49.16	-48.22	-13.00	35.22

861.9875 MHz, Downlink

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
861.99	4309.94	PK	11.60	H	7.54	33.48	3.00	52.62	-44.76	-13.00	31.76
861.99	3447.95	PK	12.19	H	6.88	32.60	3.00	51.67	-45.71	-13.00	32.71
861.99	4309.94	PK	10.56	V	7.54	33.48	3.00	51.58	-45.80	-13.00	32.80
861.99	3447.95	PK	11.99	V	6.88	32.60	3.00	51.47	-45.91	-13.00	32.91
861.99	2585.96	PK	12.45	V	5.76	32.46	3.00	50.67	-46.70	-13.00	33.70
861.99	2585.96	PK	12.01	H	5.76	32.46	3.00	50.23	-47.14	-13.00	34.14

2.1055 FREQUENCY STABILITY

KDB 935210 4.8 FREQUENCY STABILITY

90.213 FREQUENCY STABILITY

Test Engineer: _____

Test Date: _____

N/A. Device does not use a frequency determining element and is exempt.

N/A. There is no Transient Frequency Response compliance requirement for devices which operate in the 700 and 800 MHz bands.

END OF TEST REPORT