

Cellular Band (Part 22H)

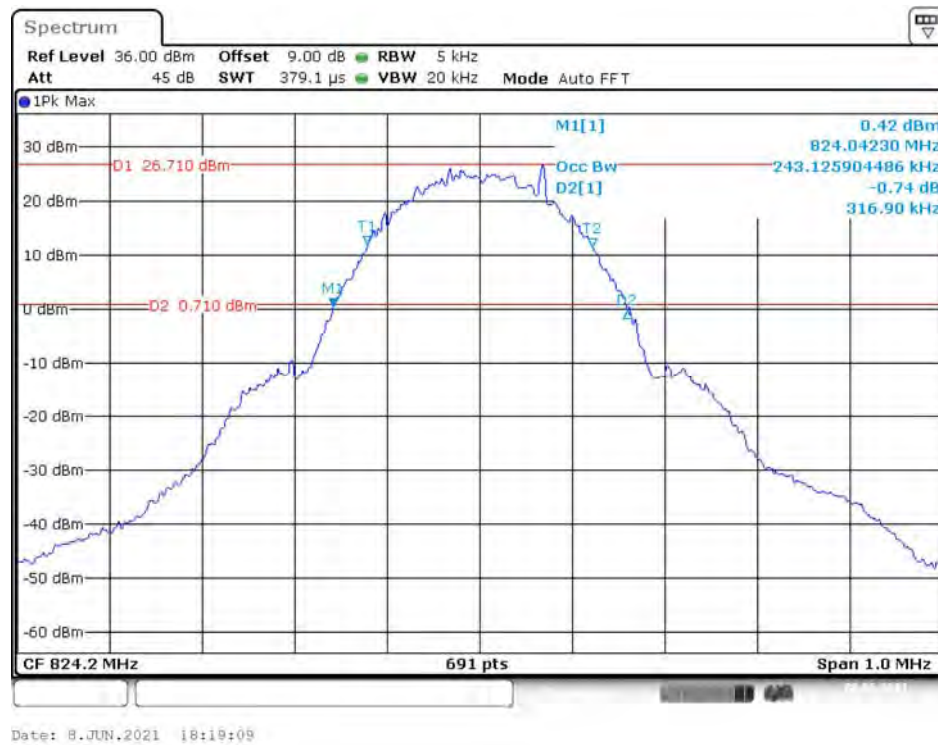
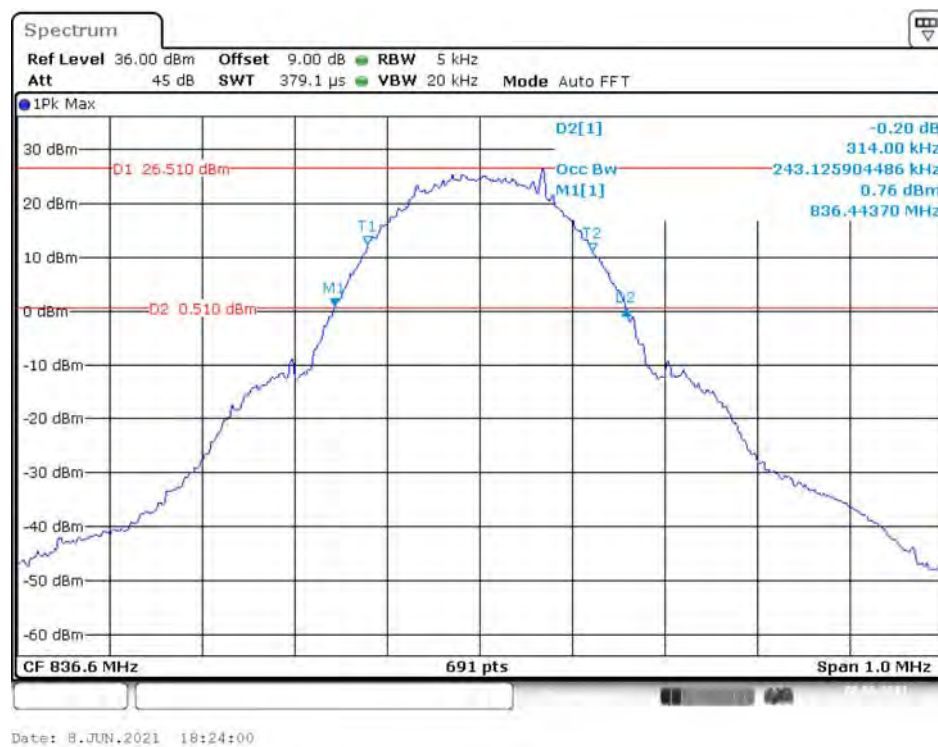
Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	824.2	243.13	316.90
	836.6	243.13	314.00
	848.8	243.13	314.00
EGPRS(8PSK)	824.2	241.68	303.90
	836.6	241.68	306.80
	848.8	241.68	303.90

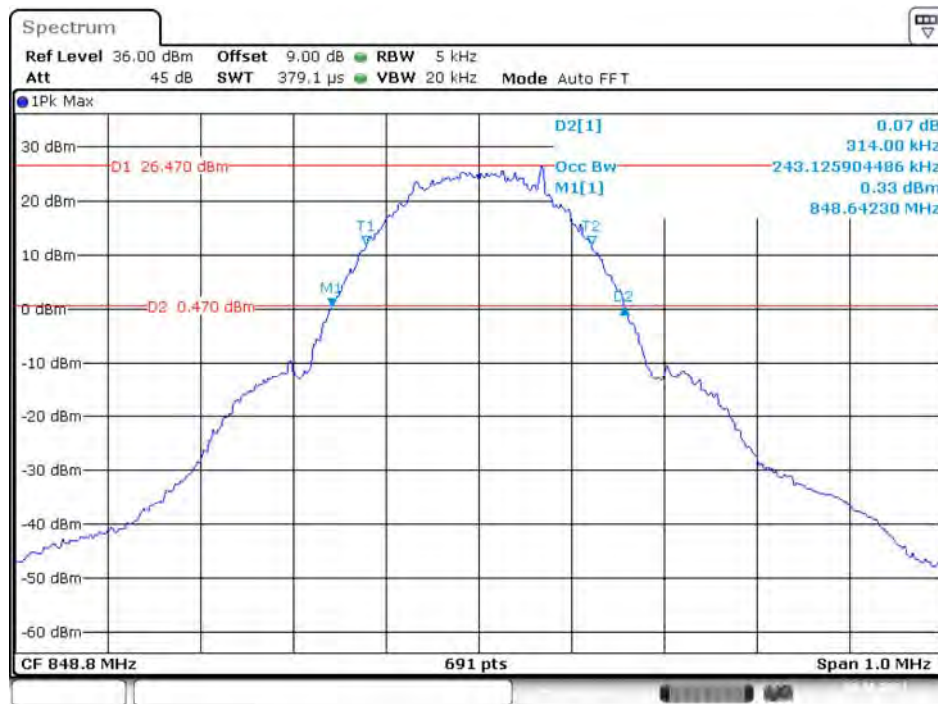
Frequency (MHz)		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	826.4	4.17	4.72
	836.6	4.17	4.72
	846.6	4.18	4.73
HSUPA	826.4	4.20	4.72
	836.6	4.20	4.73
	846.6	4.20	4.73
HSDPA	826.4	4.18	4.72
	836.6	4.18	4.72
	846.6	4.20	4.78

PCS Band (Part 24E)

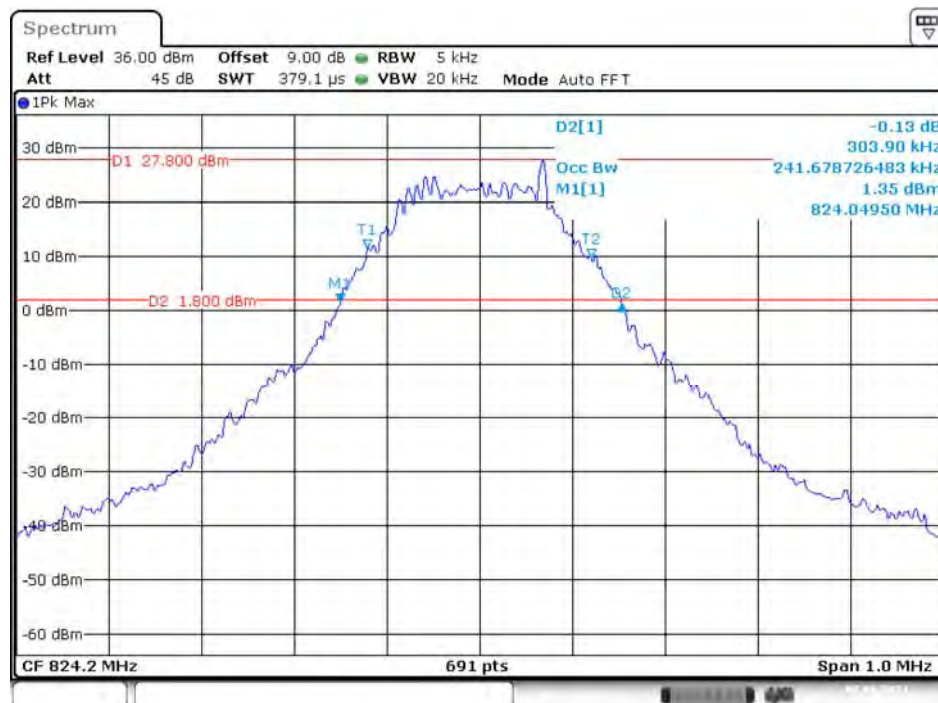
Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	1850.2	244.57	316.90
	1880.0	244.57	319.80
	1909.8	243.13	312.60
EGPRS(8PSK)	1850.2	240.23	305.40
	1880.0	238.78	303.90
	1909.8	244.57	318.40

	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1852.4	4.17	4.72
	1880.0	4.15	4.72
	1907.6	4.17	4.75
HSDPA	1852.4	4.18	4.72
	1880.0	4.18	4.72
	1907.6	4.18	4.72
HSUPA	1852.4	4.17	4.72
	1880.0	4.18	4.72
	1907.6	4.18	4.72

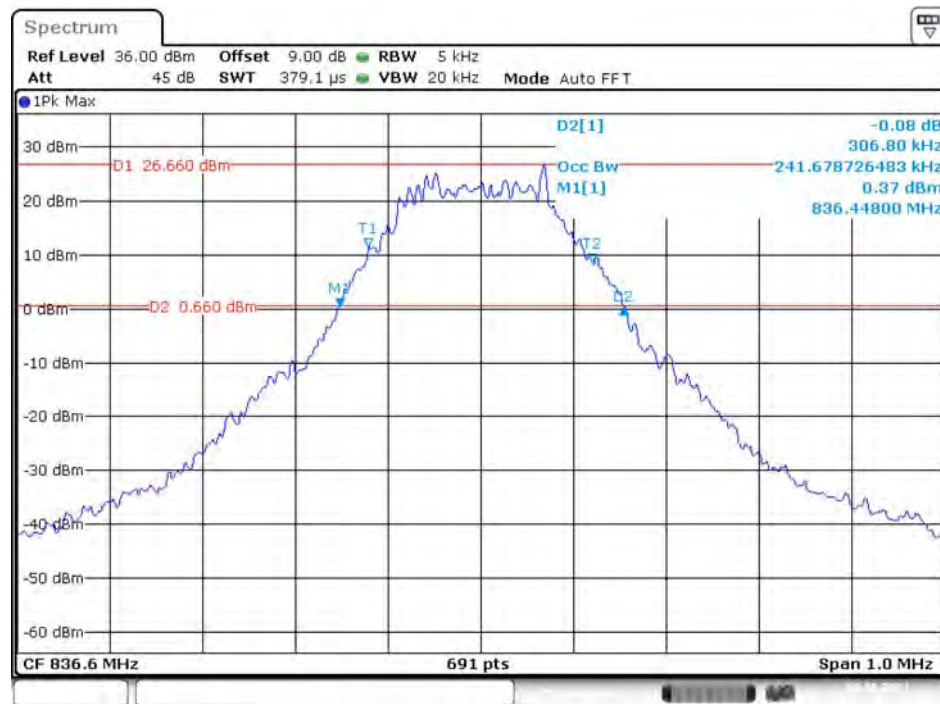
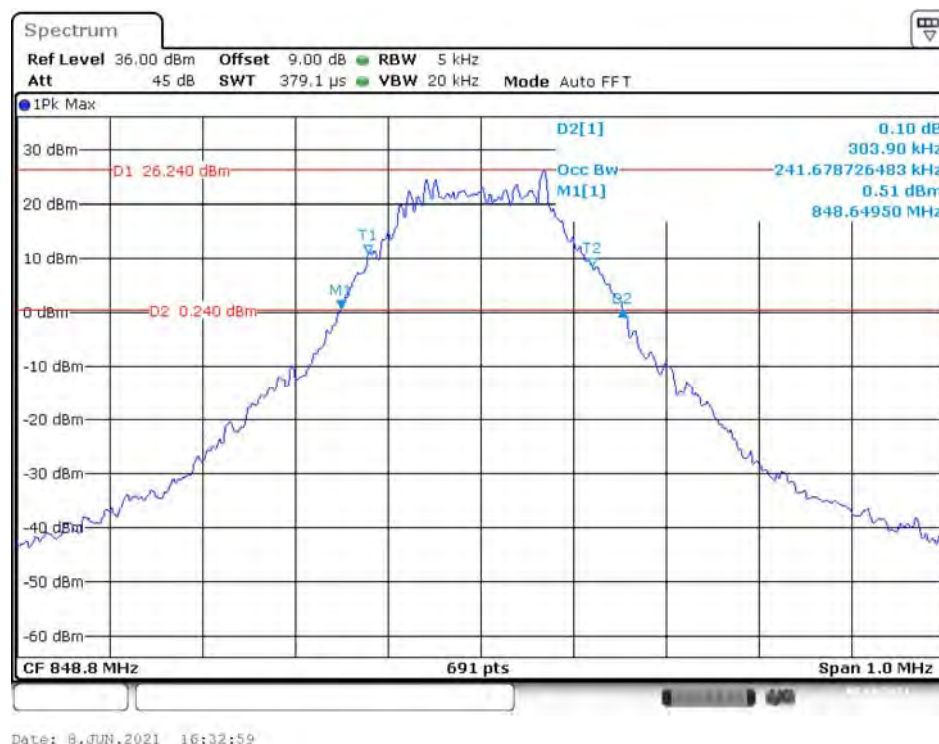
Cellular Band (Part 22H)**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel****26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel**

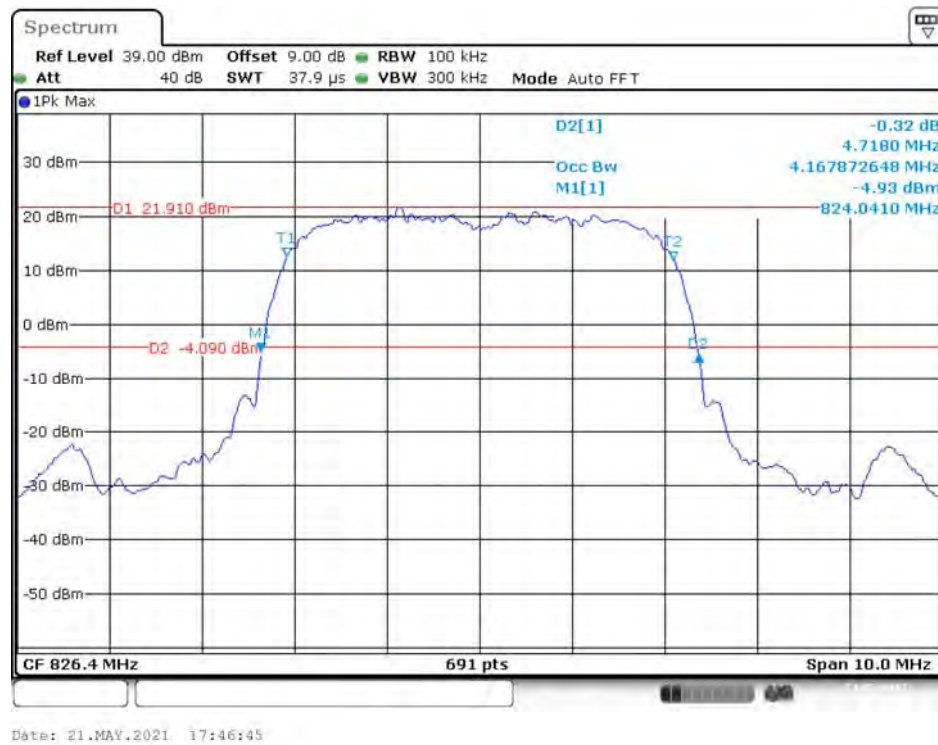
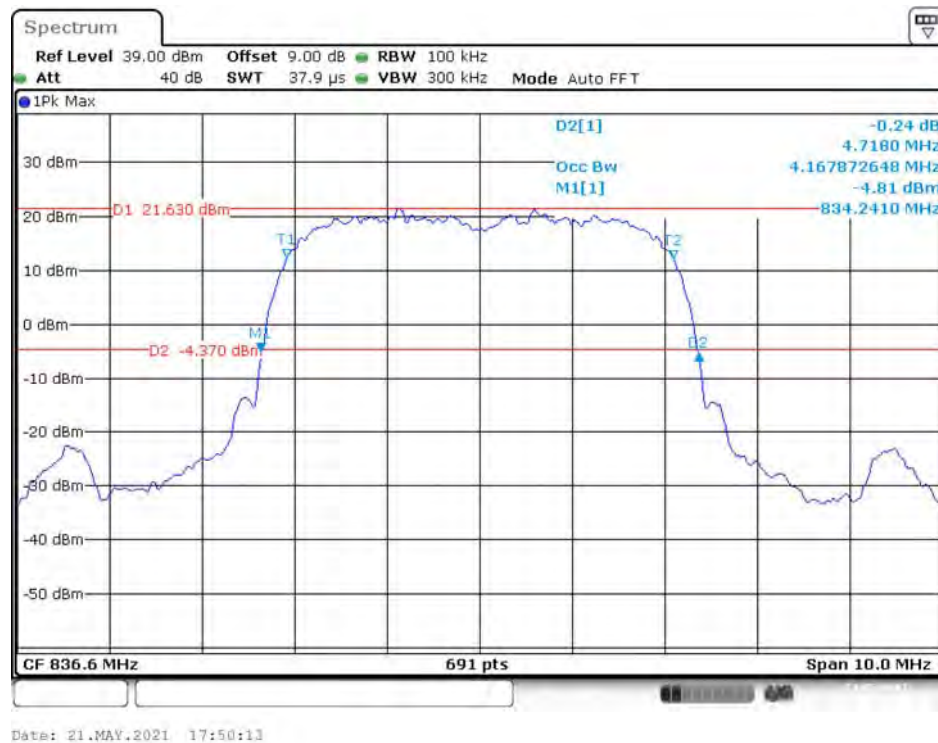
26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, High channel

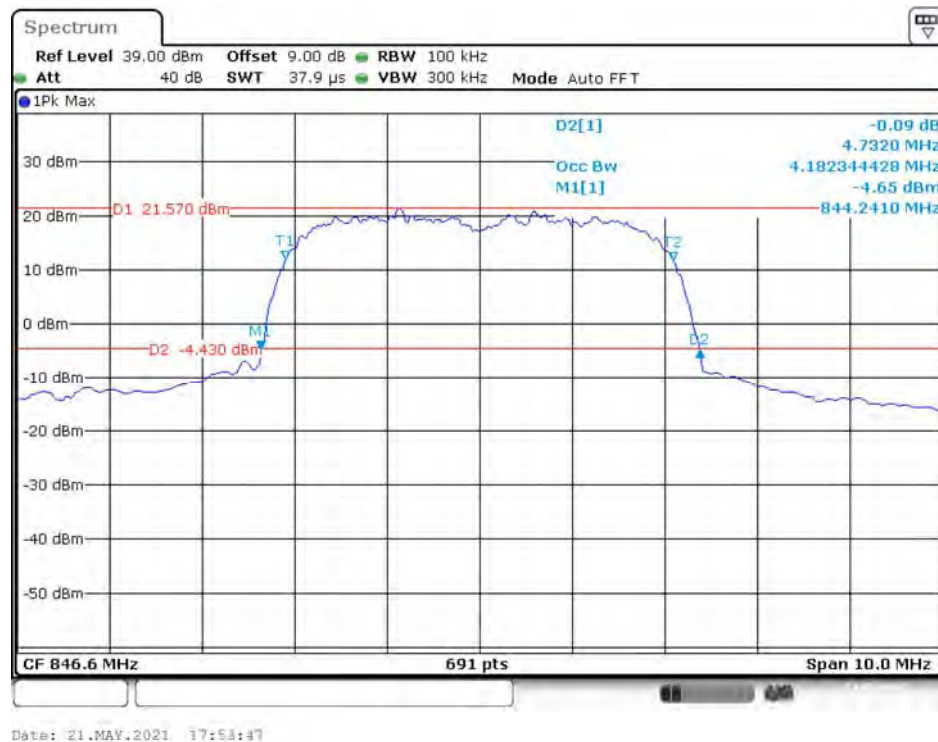
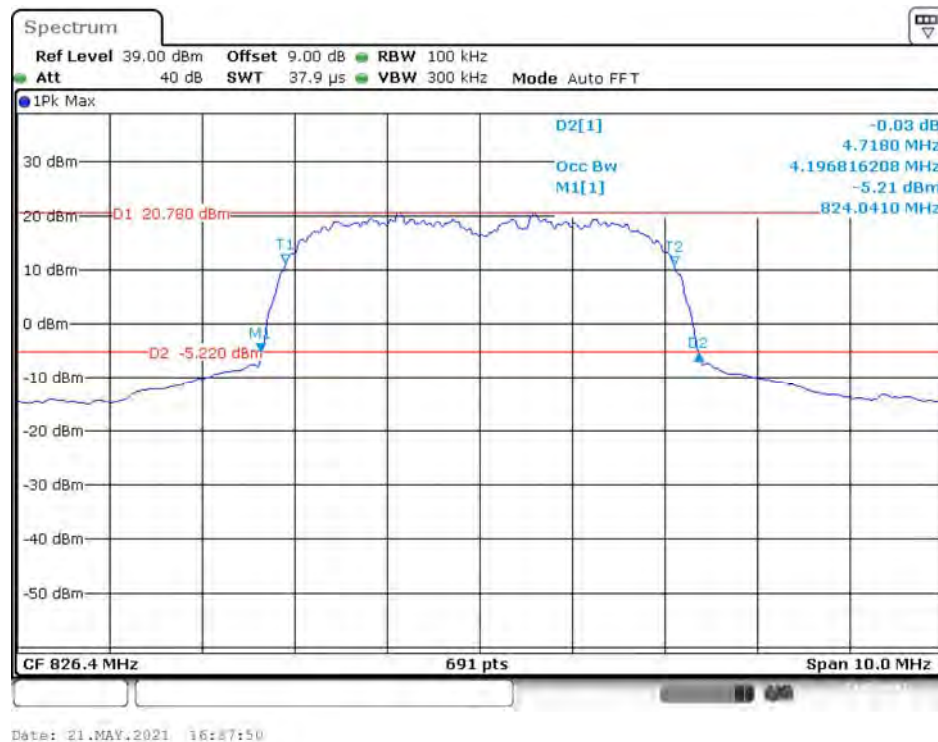
Date: 8.JUN.2021 18:26:01

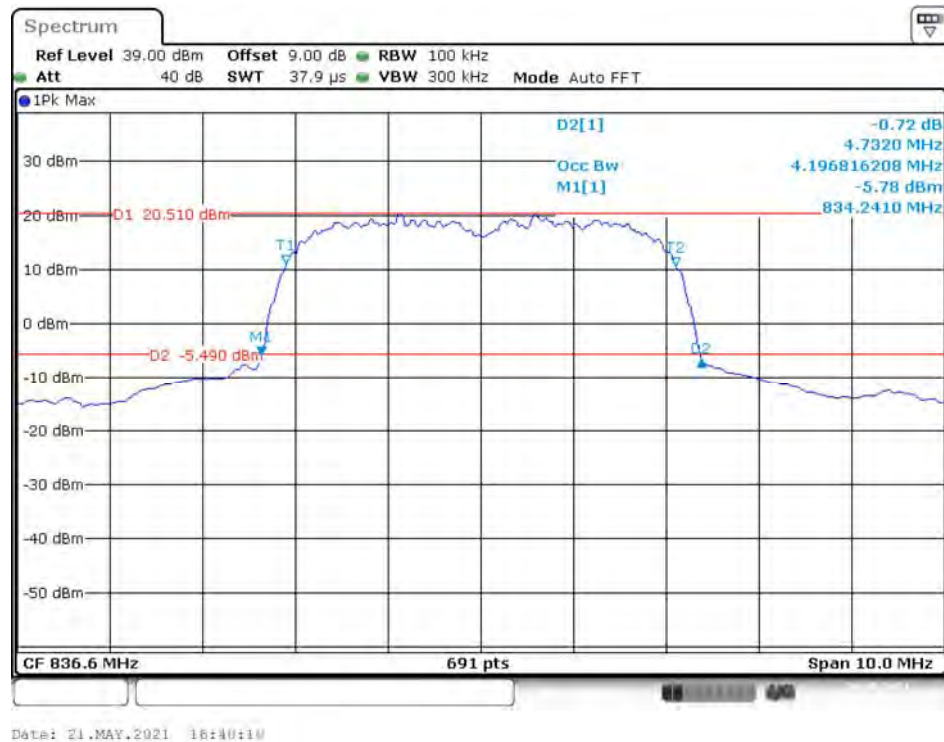
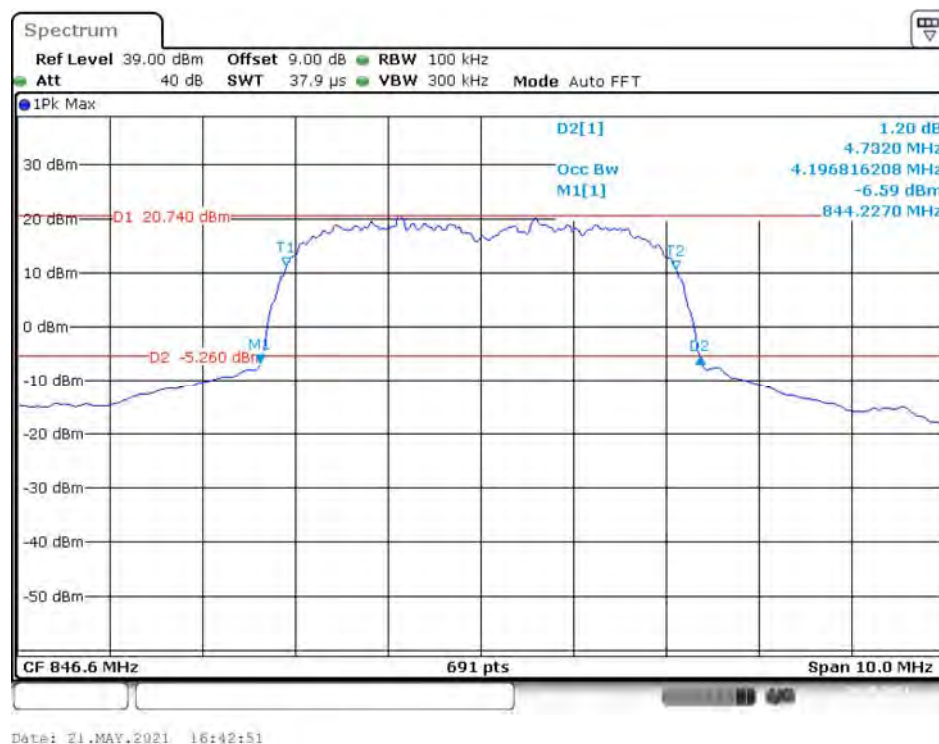
26 dB Emissions & 99% Occupied Bandwidth for EGPRS(8PSK) Mode, Low channel

Date: 8.JUN.2021 16:26:54

26 dB Emissions & 99% Occupied Bandwidth for EGPRS(8PSK) Mode, Middle channel**26 dB Emissions & 99% Occupied Bandwidth for EGPRS(8PSK) Mode, High channel**

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel**

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low channel**

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Middle channel**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, High channel**

Spectrum

Ref Level 39.00 dBm **Offset** 9.00 dB **RBW** 100 kHz

Att 40 dB **SWT** 37.9 μ s **VBW** 300 kHz **Mode** Auto FFT

1Pk Max

D2[1] 0.31 dBm
4.7180 MHz
4.182344428 MHz
-6.68 dBm
824.0410 MHz

Occ Bw
M1[1]

D1 20.310 dBm

D2 -5.690 dBm

T1

T2

D2

CF 826.4 MHz **691 pts** **Span** 10.0 MHz

Date: 21.MAY.2021 16:58:45

Spectrum

Ref Level 39.00 dBm Offset 9.00 dB RBW 100 kHz
 Att 40 dB SWT 37.9 μ s VBW 300 kHz Mode Auto FFT

1Pk Max

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

D2[1]

Occ Bw

M1[1]

0.54 dB

4.7180 MHz

4.182344428 MHz

-6.73 dBm

834.2410 MHz

D1 20.030 dBm

D2 -5.970 dBm

T1

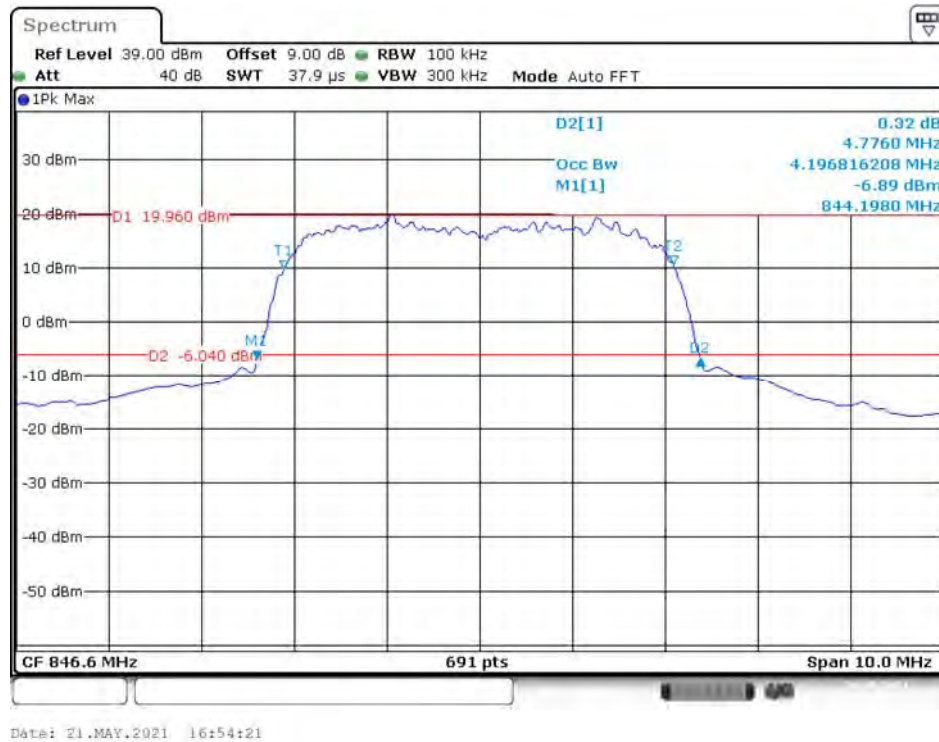
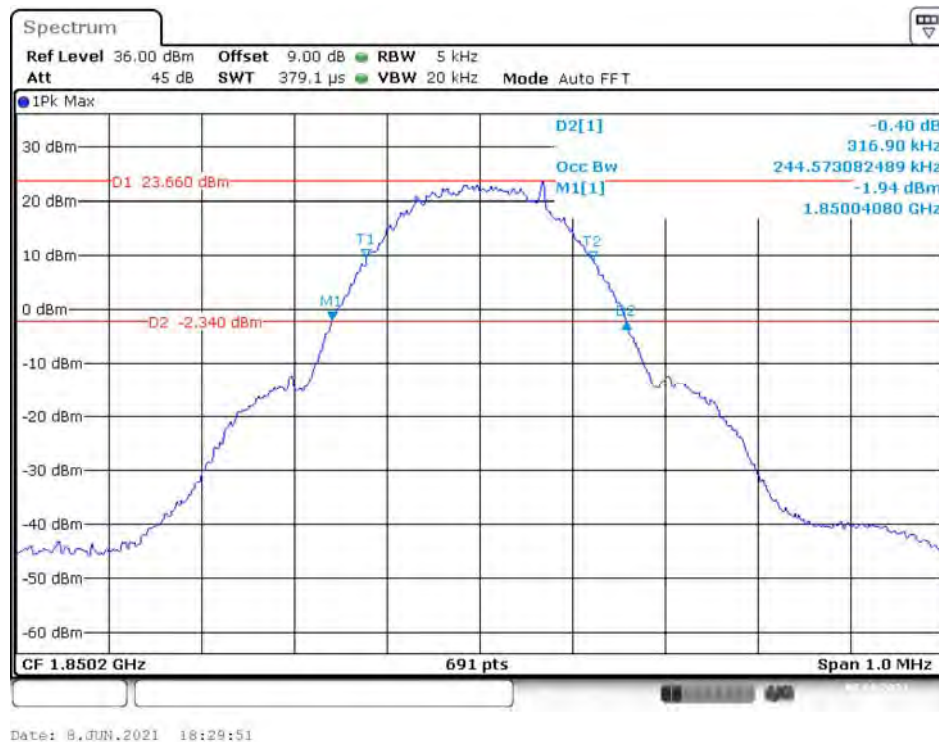
T2

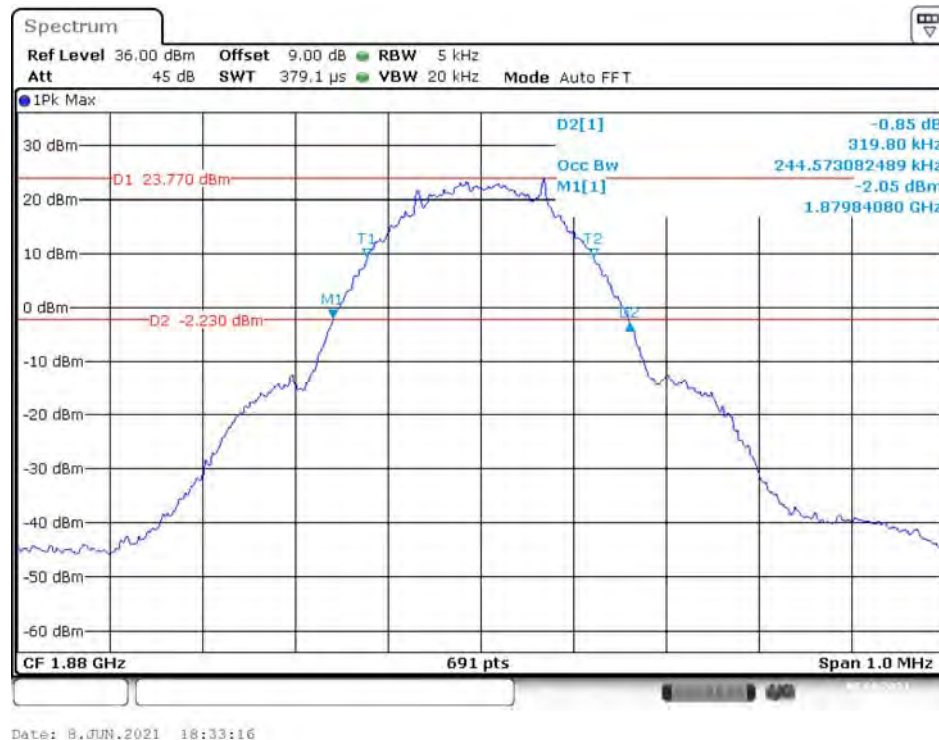
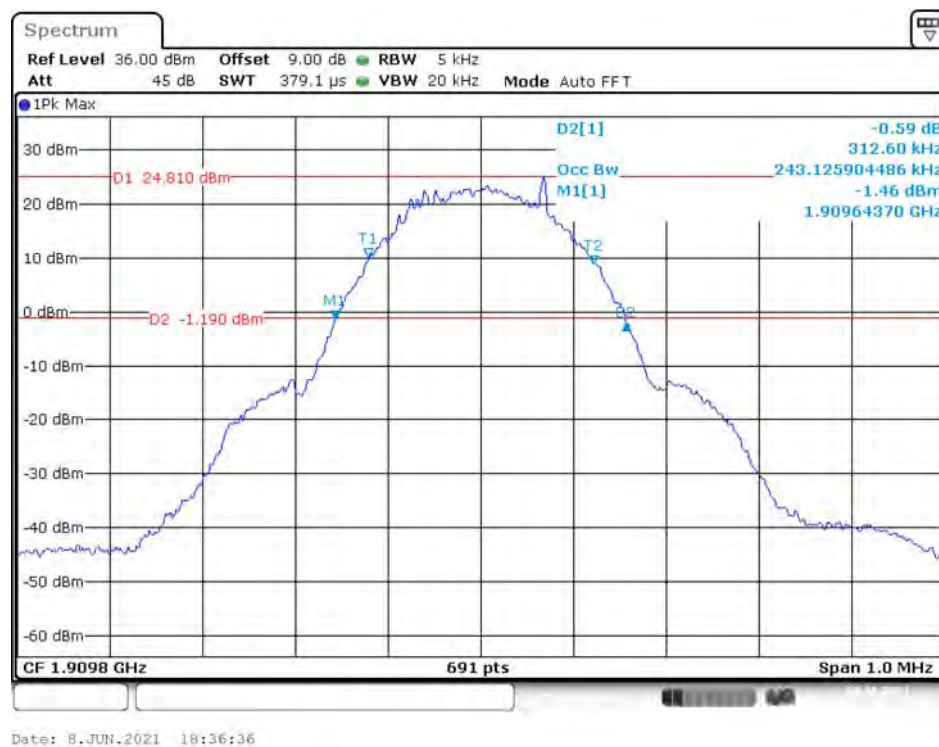
CF 836.6 MHz

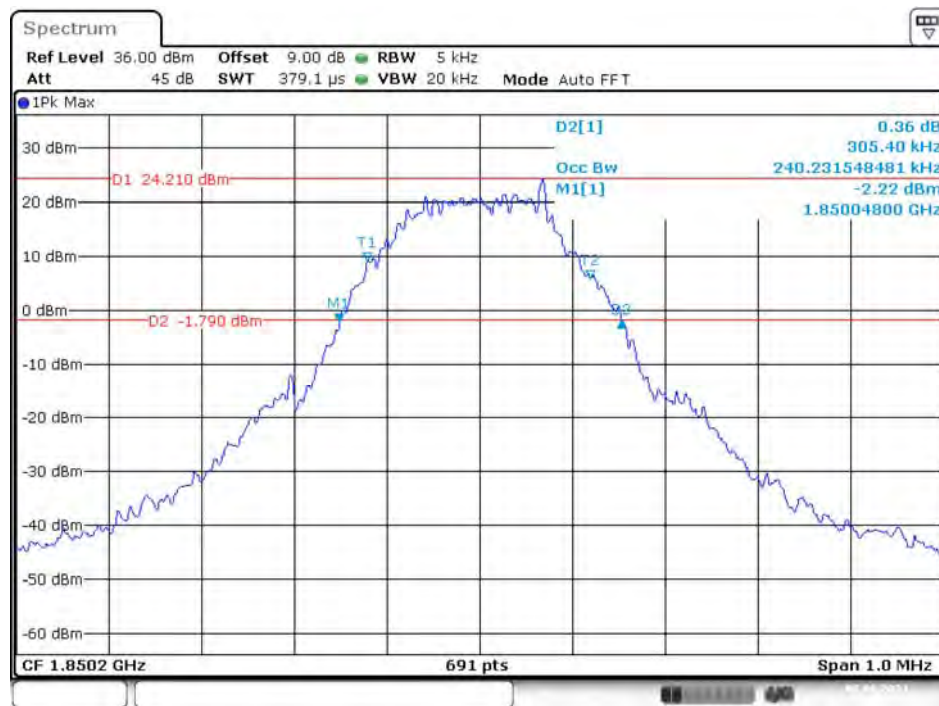
691 pts

Span 10.0 MHz

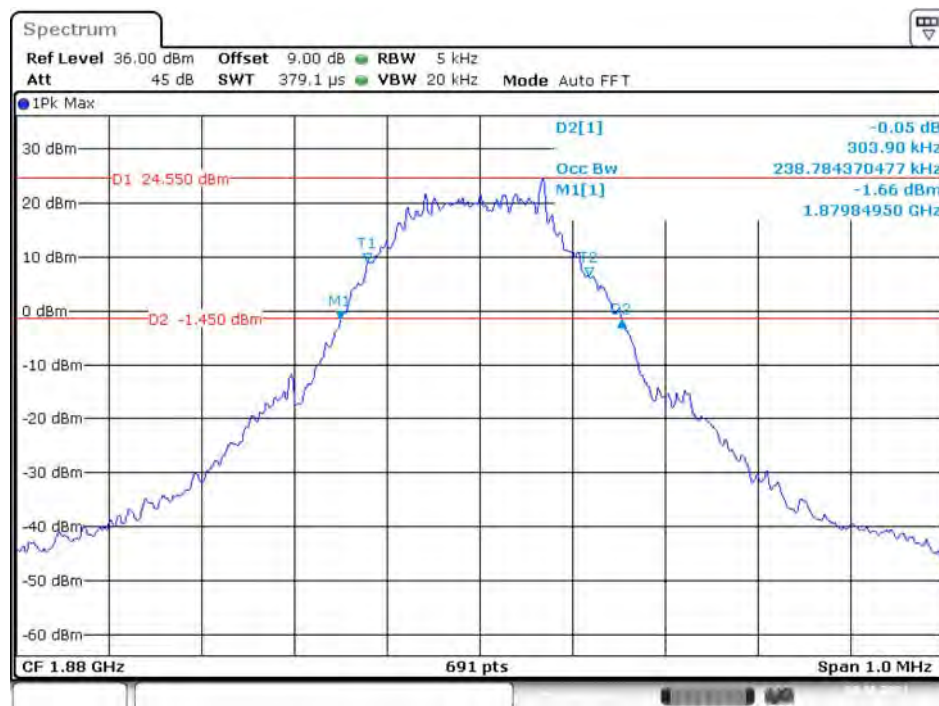
Date: 21.MAY.2021 16:56:53

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, High channel**PCS Band (Part 24E)****26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel**

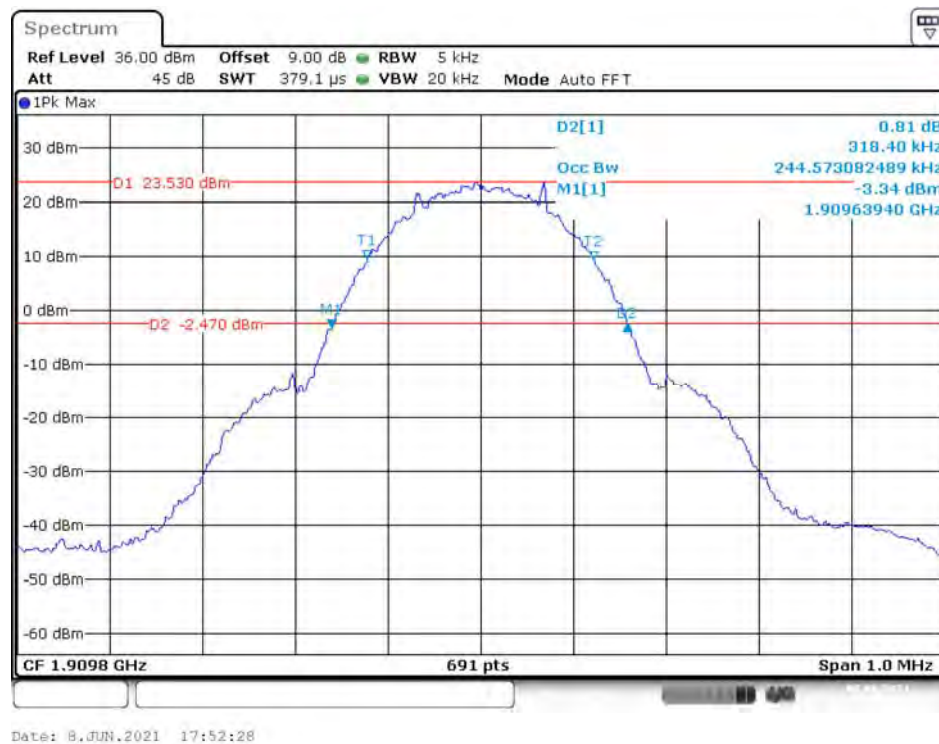
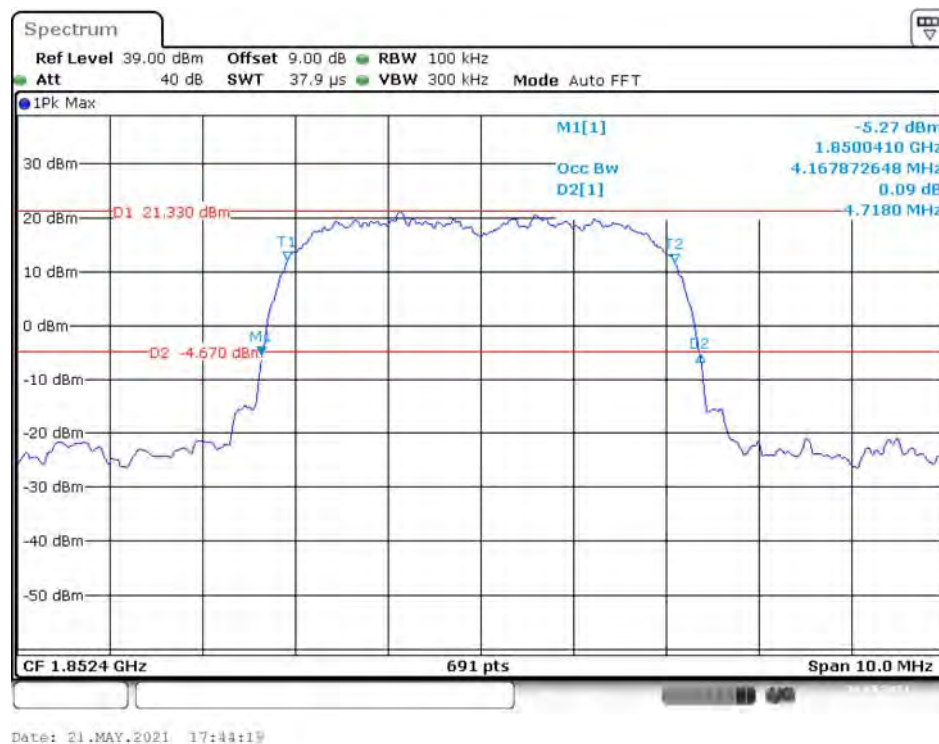
26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, High channel**

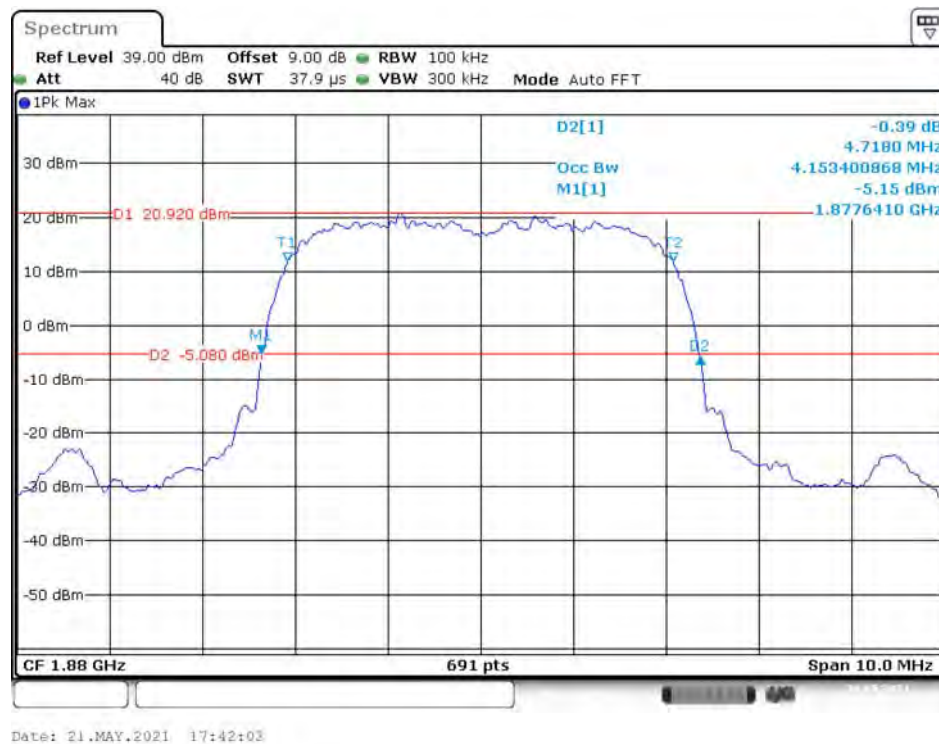
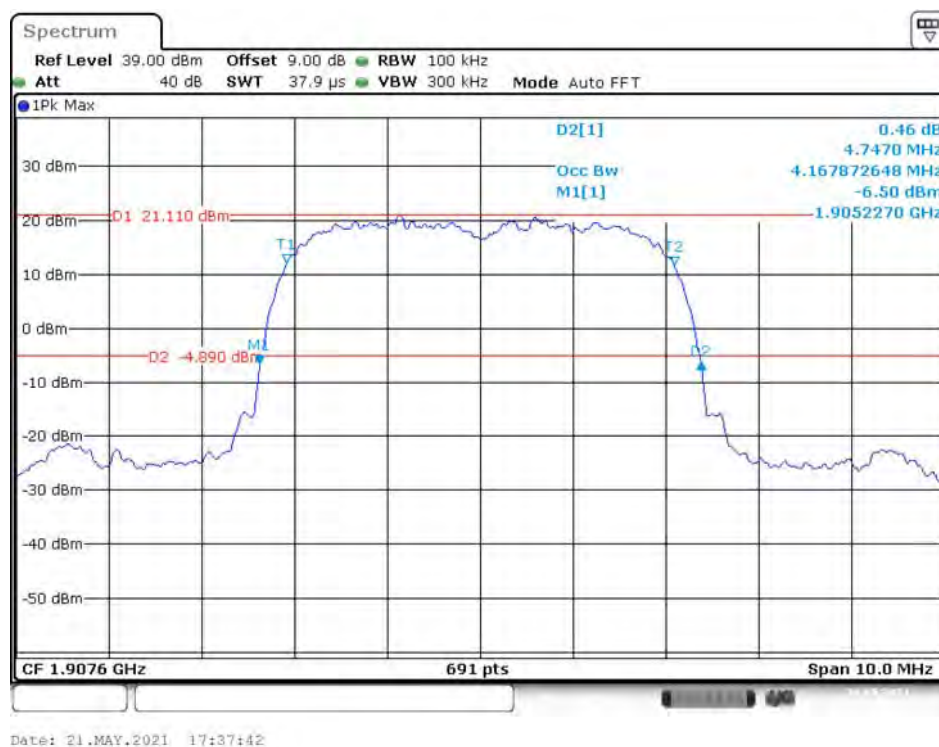
26 dB Emissions & 99% Occupied Bandwidth for EGPRS(8PSK) Mode, Low channel

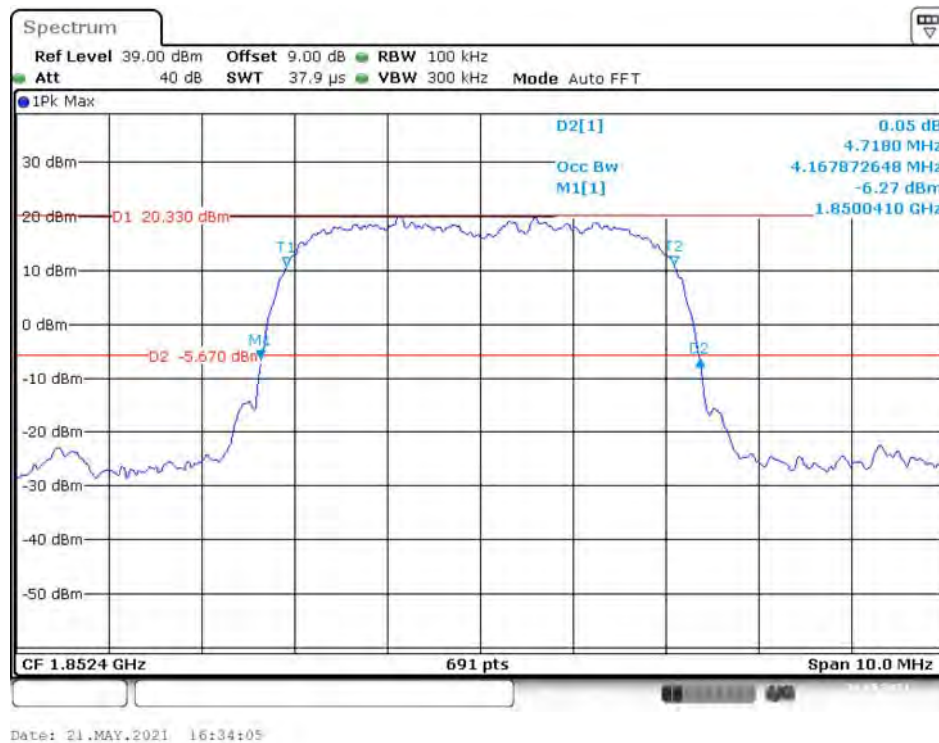
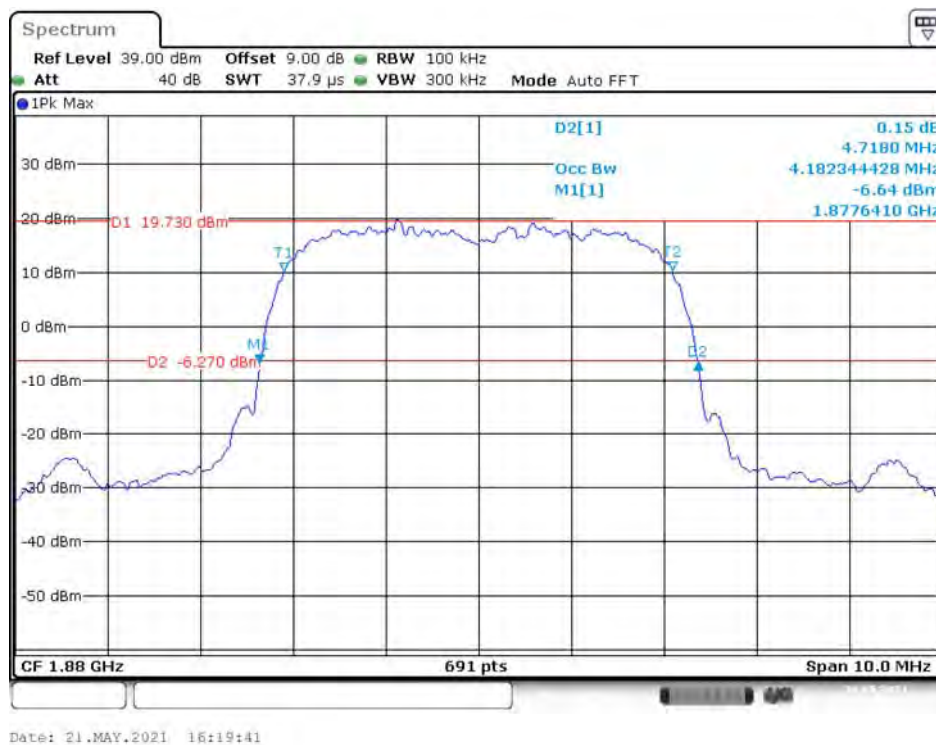
Date: 8.JUN.2021 16:38:00

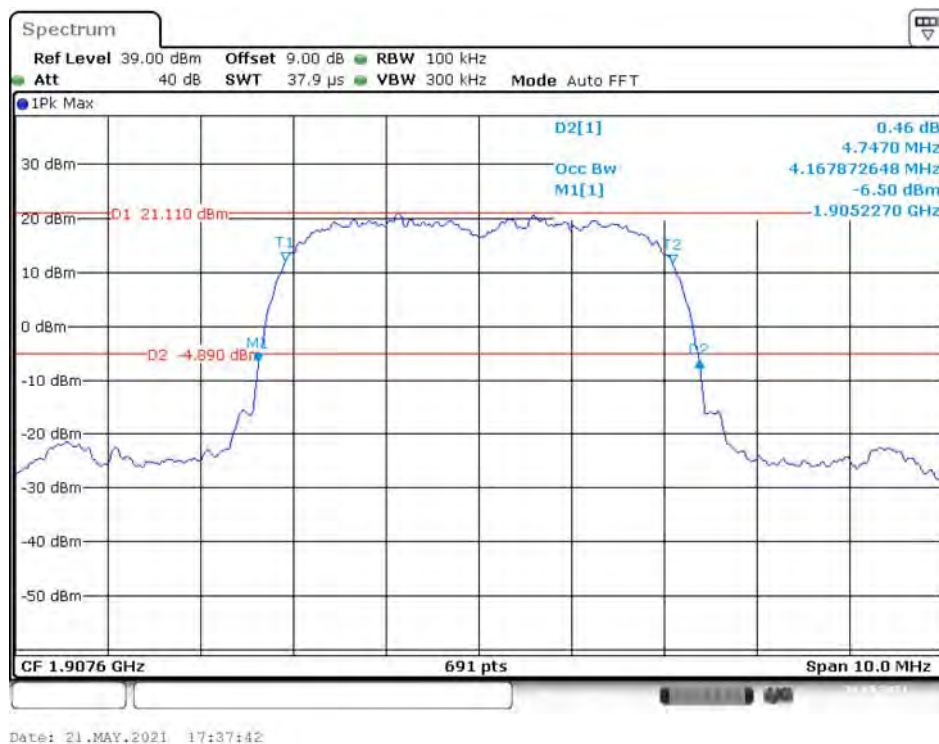
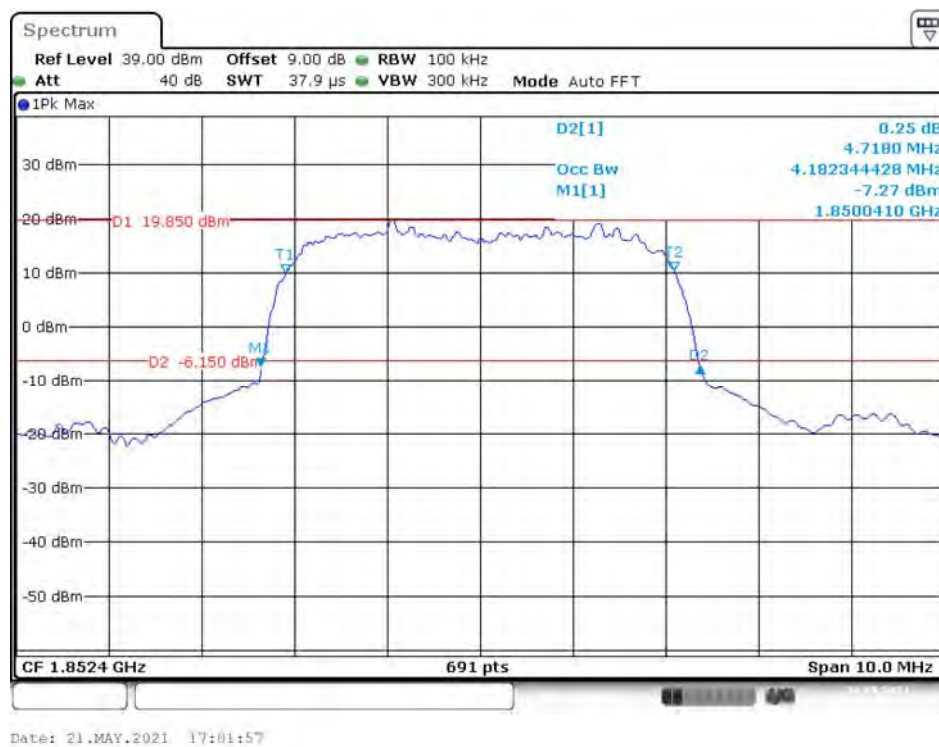
26 dB Emissions & 99% Occupied Bandwidth for EGPRS(8PSK) Mode, Middle channel

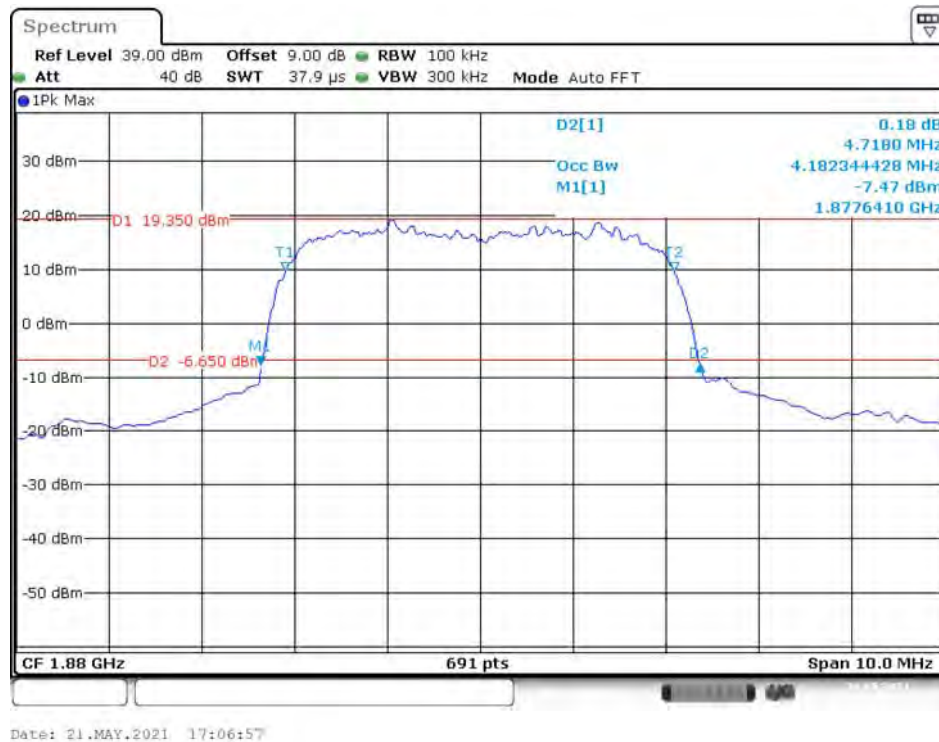
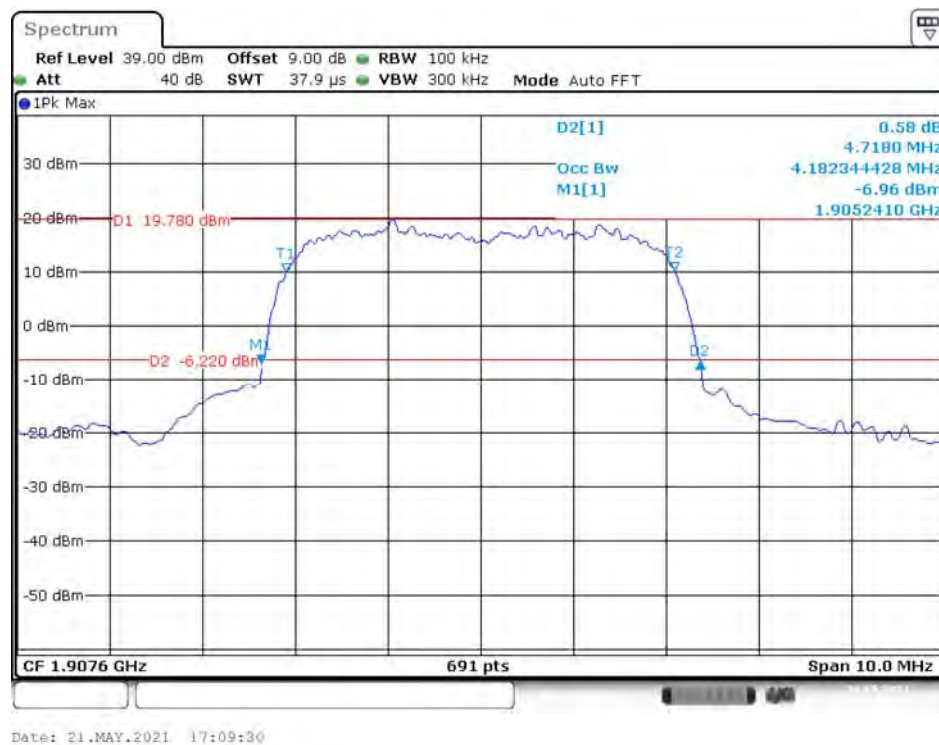
Date: 8.JUN.2021 16:41:00

26 dB Emissions & 99% Occupied Bandwidth for EGPRS(8PSK) Mode, High channel**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel**

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel**

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low channel**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Middle channel**

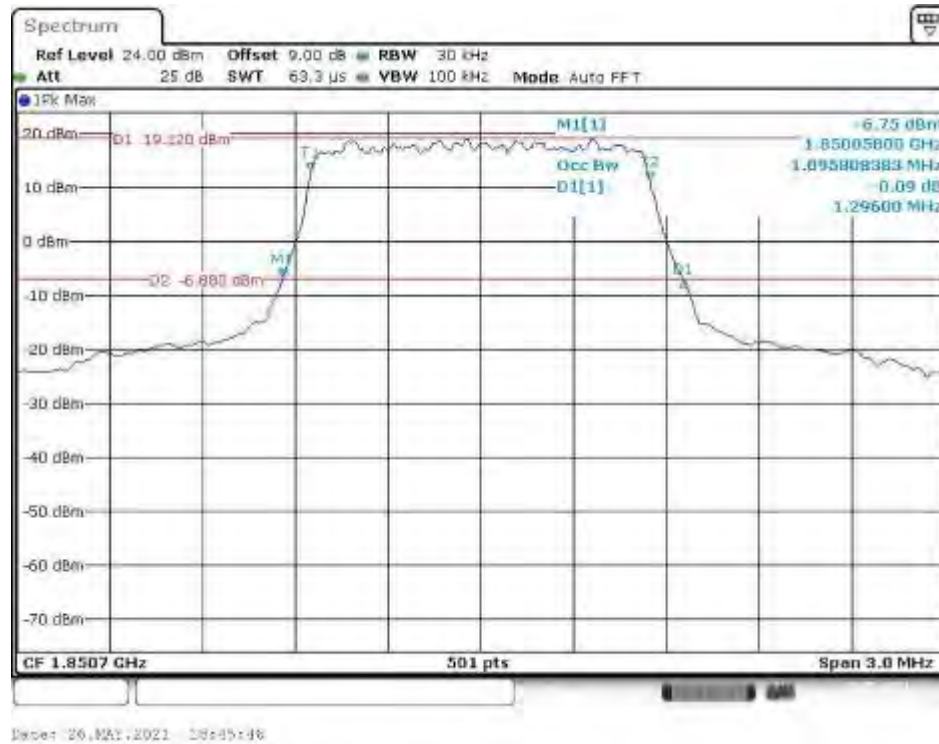
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, High channel**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel**

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Middle channel**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, High channel**

LTE Band 2:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
1.4 MHz	QPSK	1.096	1.296	1.102	1.314	1.102	1.296
	16QAM	1.096	1.314	1.090	1.290	1.096	1.296
3 MHz	QPSK	2.683	2.868	2.683	2.868	2.683	2.880
	16QAM	2.683	2.892	2.683	2.868	2.683	2.868
5 MHz	QPSK	4.551	5.360	4.511	5.200	4.511	5.180
	16QAM	4.511	5.160	4.531	5.200	4.531	5.220
10 MHz	QPSK	8.942	10.040	8.942	9.880	8.982	9.960
	16QAM	8.942	9.720	8.942	9.920	8.982	9.920
15 MHz	QPSK	13.533	14.880	13.473	14.760	13.533	14.940
	16QAM	13.533	14.820	13.533	14.820	13.533	14.820
20 MHz	QPSK	17.884	19.440	17.964	19.760	17.964	19.680
	16QAM	17.964	19.840	18.044	19.600	17.964	19.760

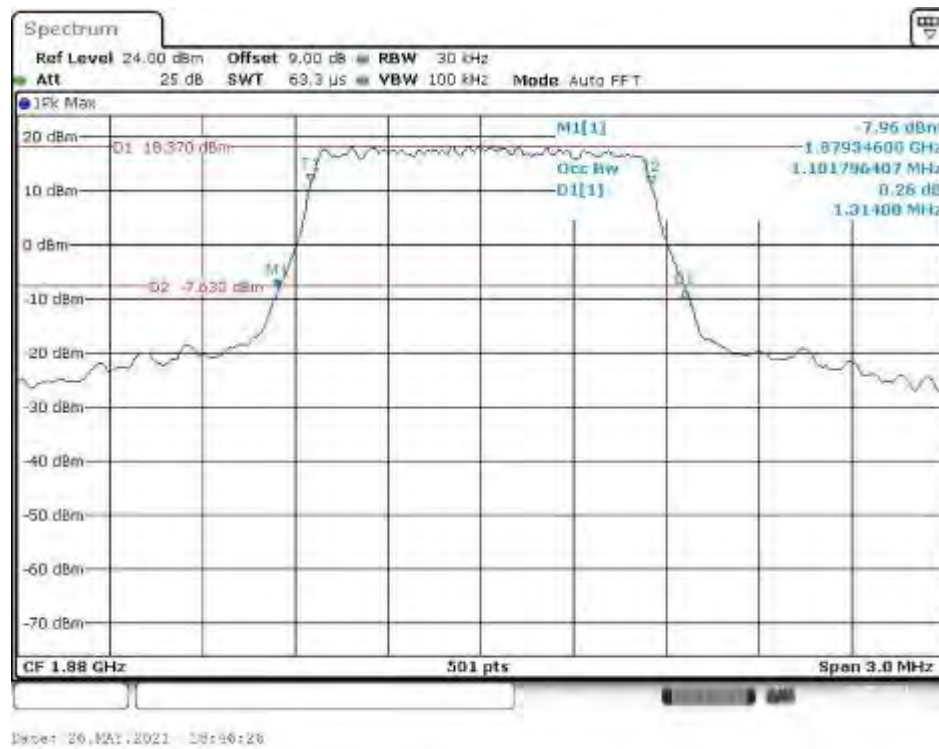
Band 2_1.4 MHz_Low_QPSK_RB6#0



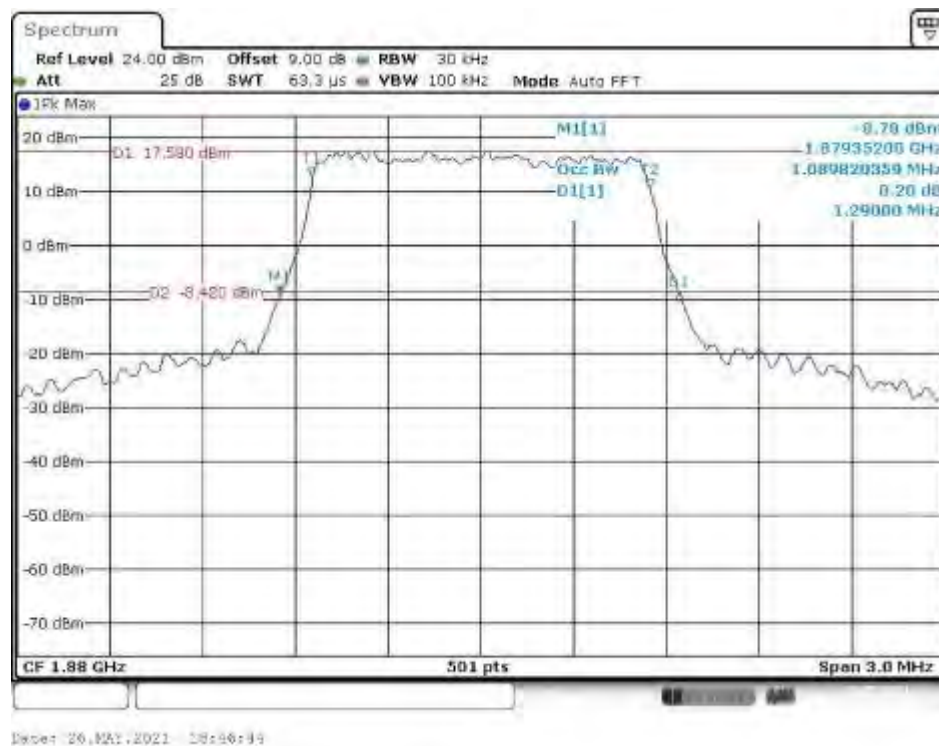
Band 2_1.4 MHz_Low_16QAM_RB6#0



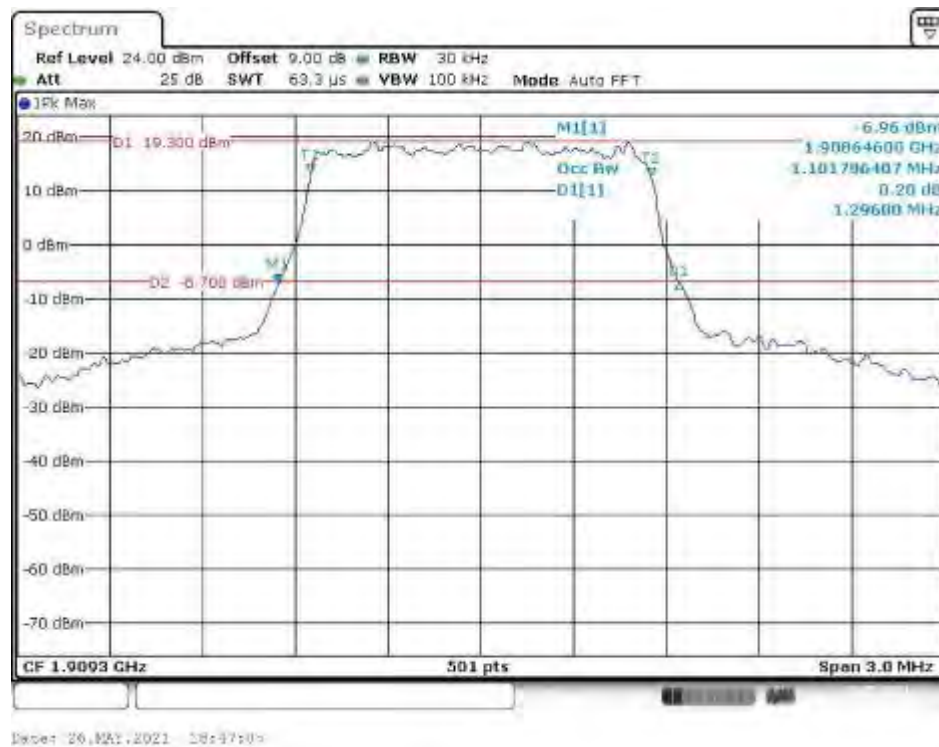
Band 2_1.4 MHz_Middle_QPSK_RB6#0



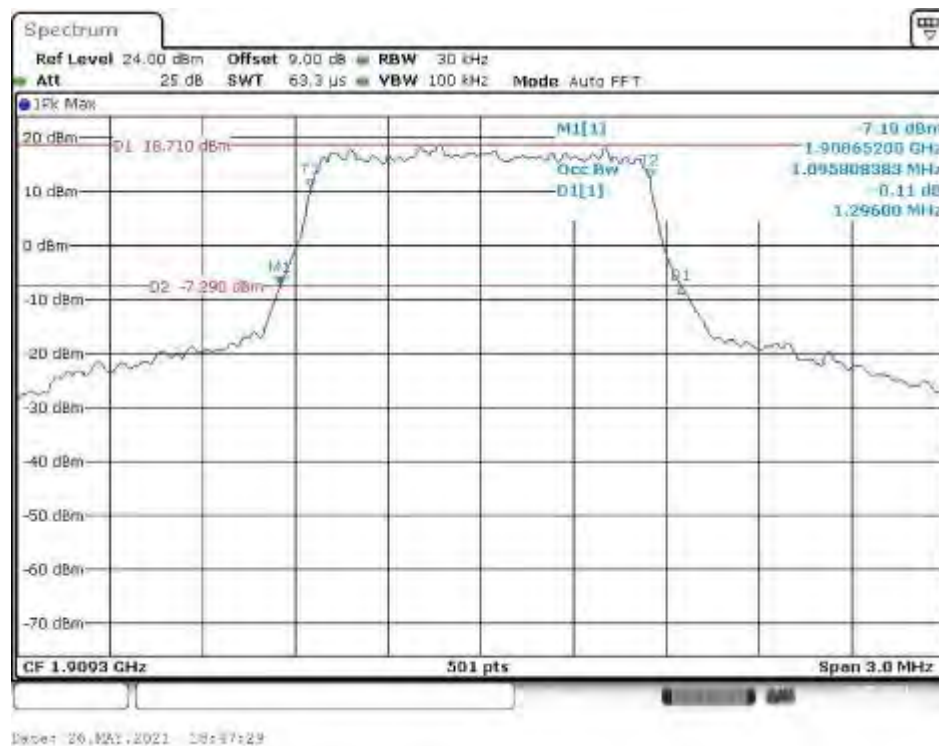
Band 2_1.4 MHz_Middle_16QAM_RB6#0



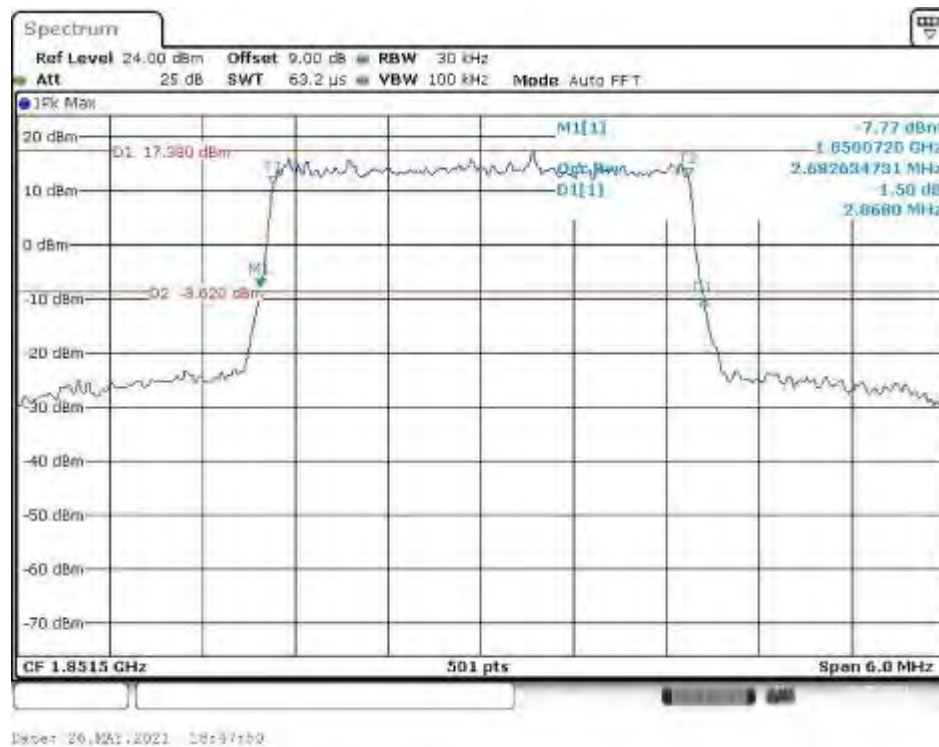
Band 2_1.4 MHz_High_QPSK_RB6#0



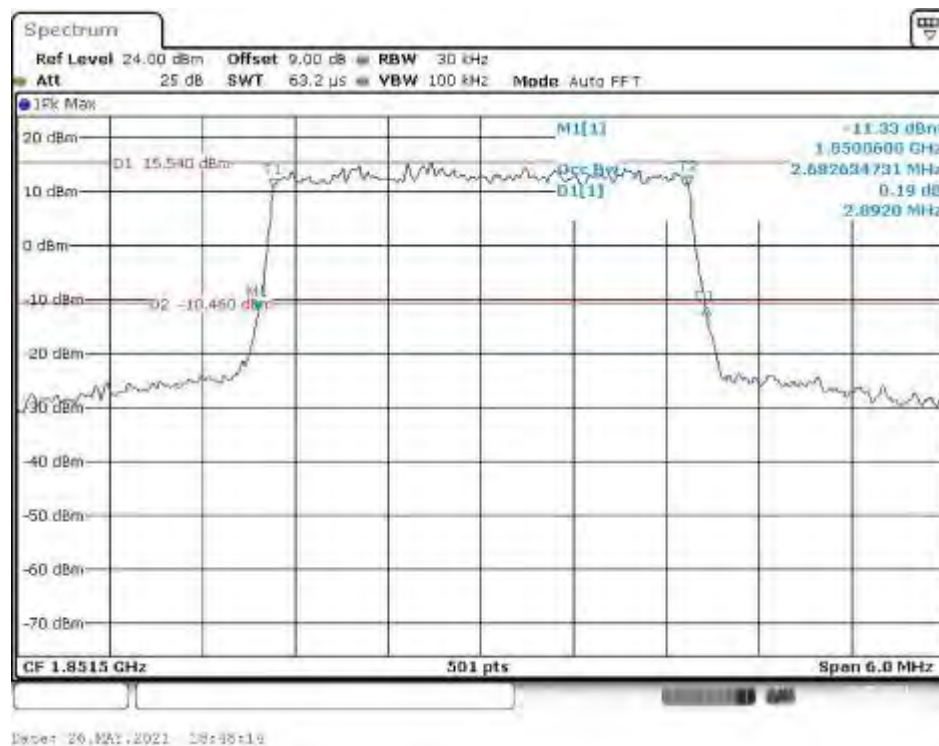
Band 2_1.4 MHz_High_16QAM_RB6#0



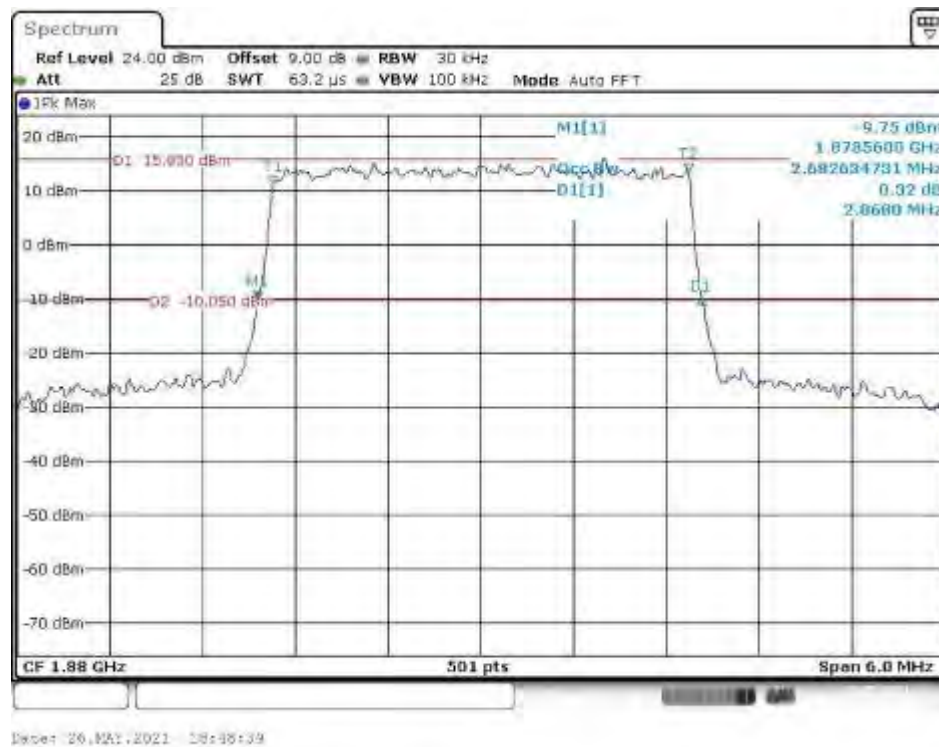
Band 2_3 MHz_Low_QPSK_RB15#0



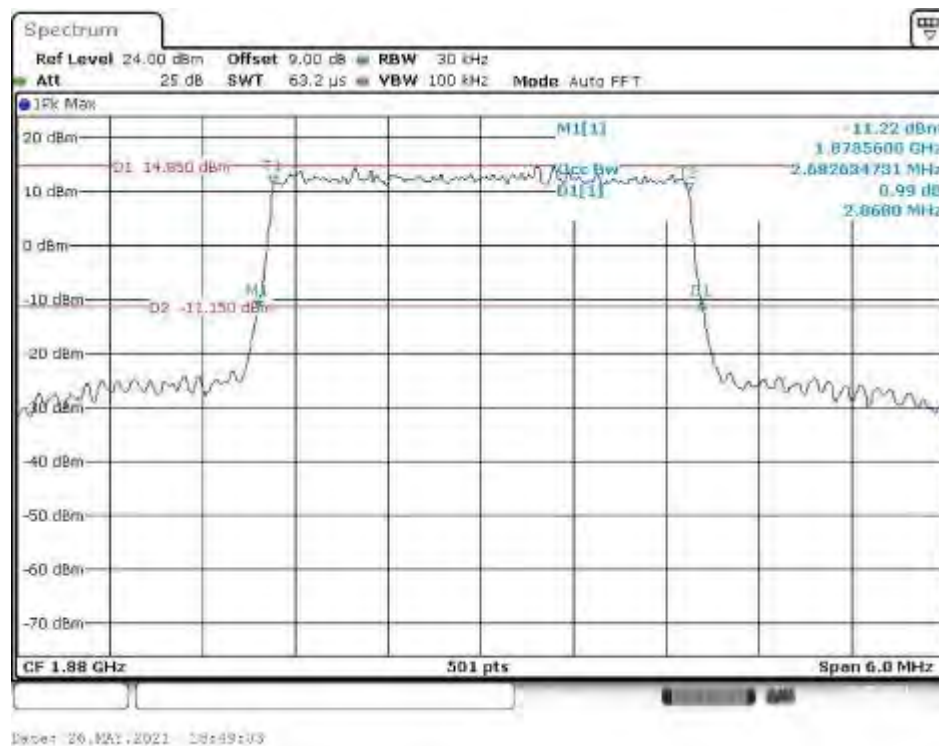
Band 2_3 MHz_Low_16QAM_RB15#0



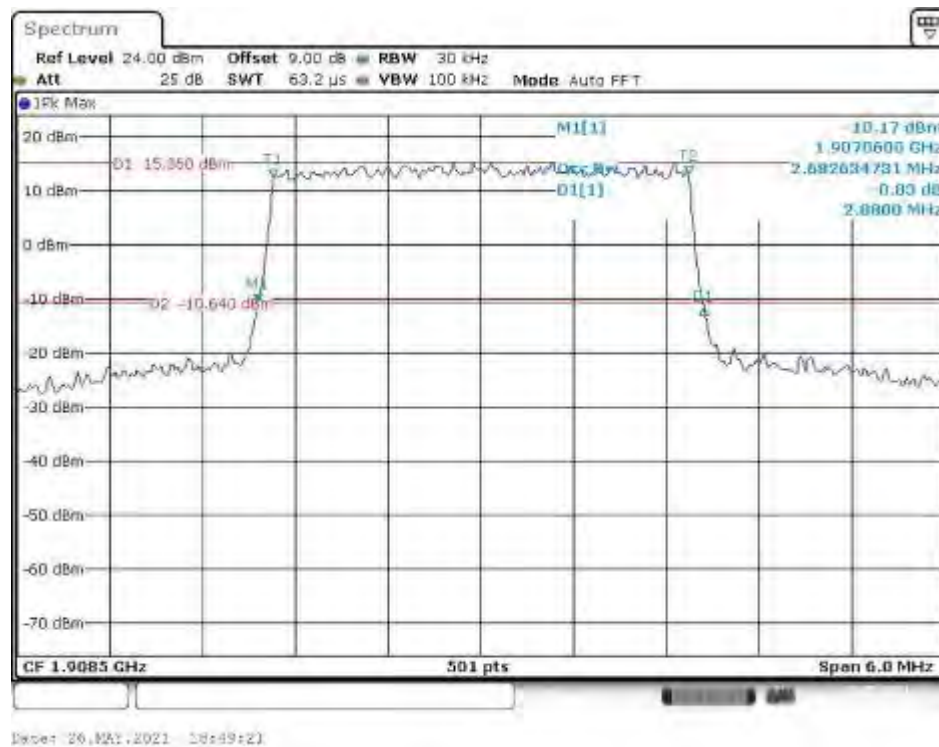
Band 2_3 MHz_Middle_QPSK_RB15#0



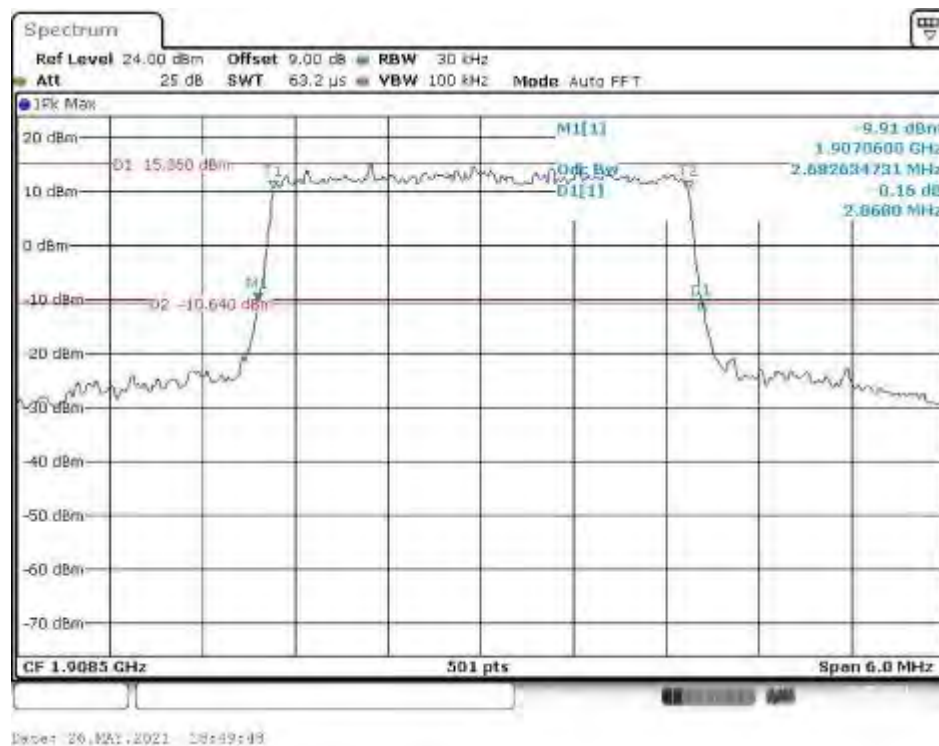
Band 2_3 MHz_Middle_16QAM_RB15#0



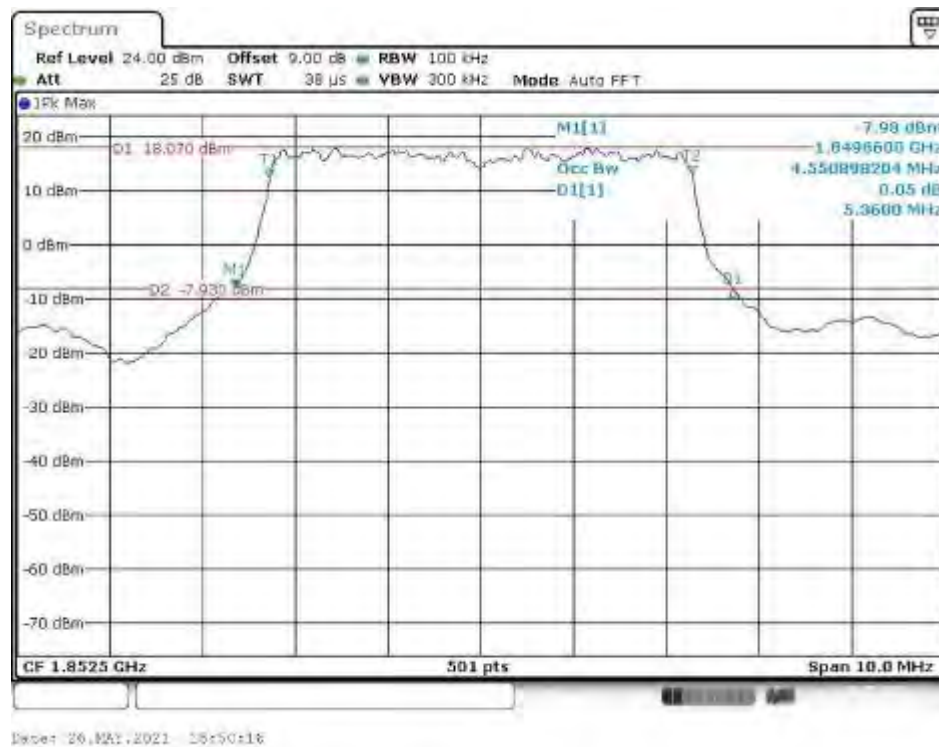
Band 2_3 MHz_High_QPSK_RB15#0



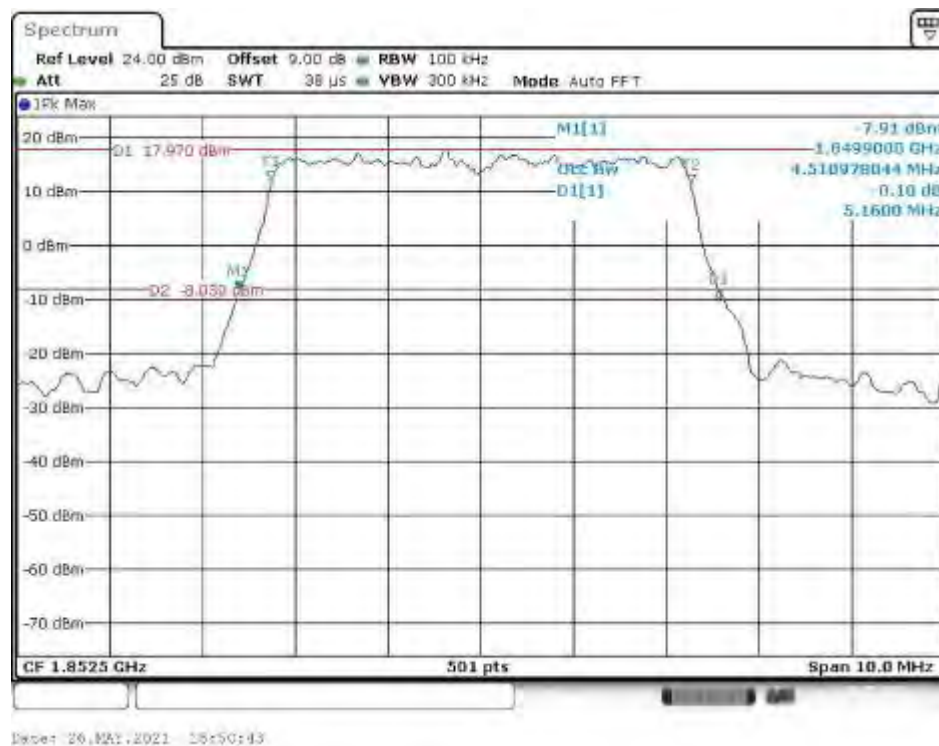
Band 2_3 MHz_High_16QAM_RB15#0



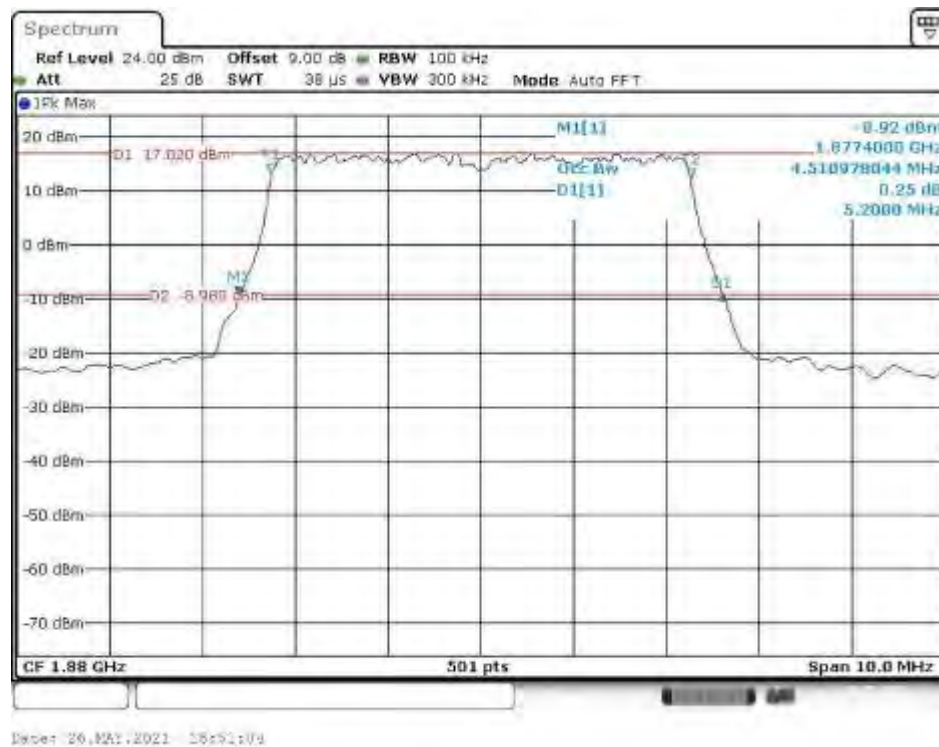
Band 2_5 MHz_Low_QPSK_RB25#0



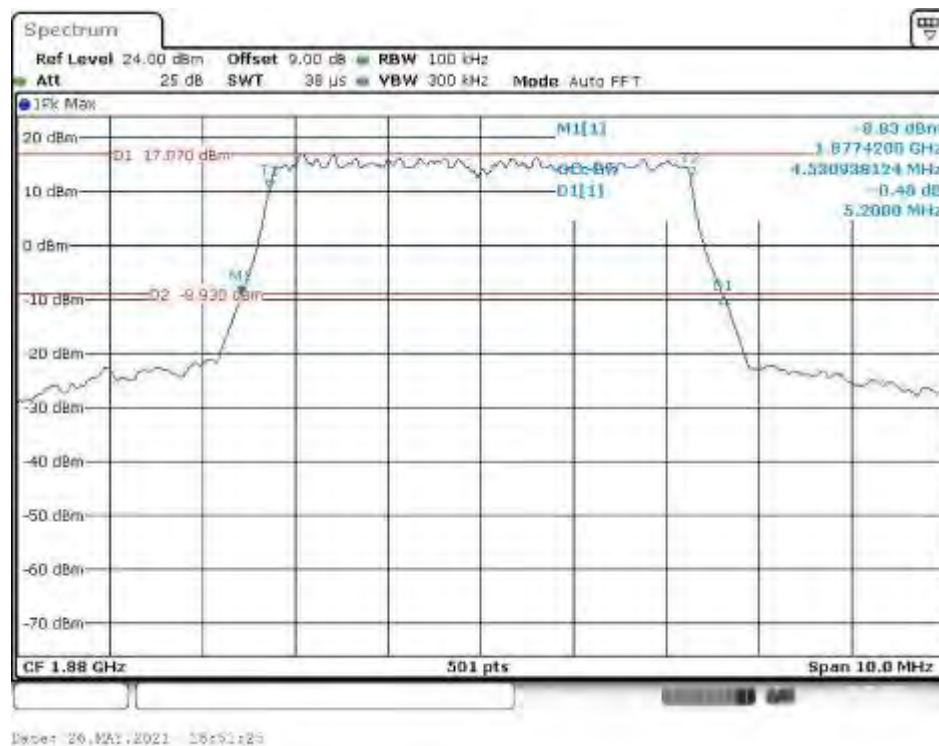
Band 2_5 MHz_Low_16QAM_RB25#0



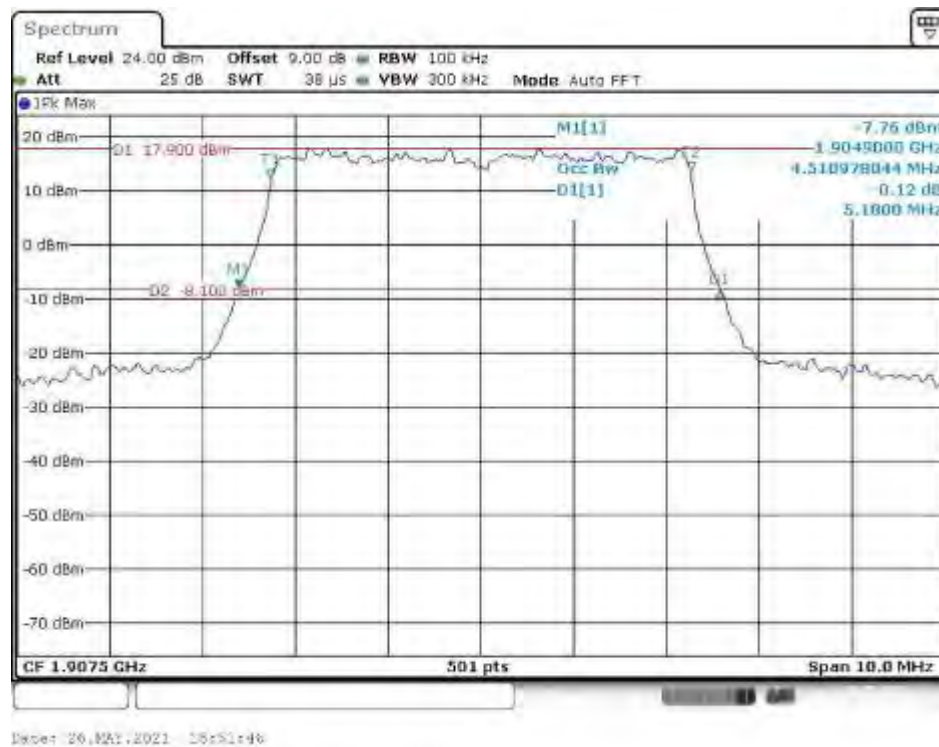
Band 2_5 MHz_Middle_QPSK_RB25#0



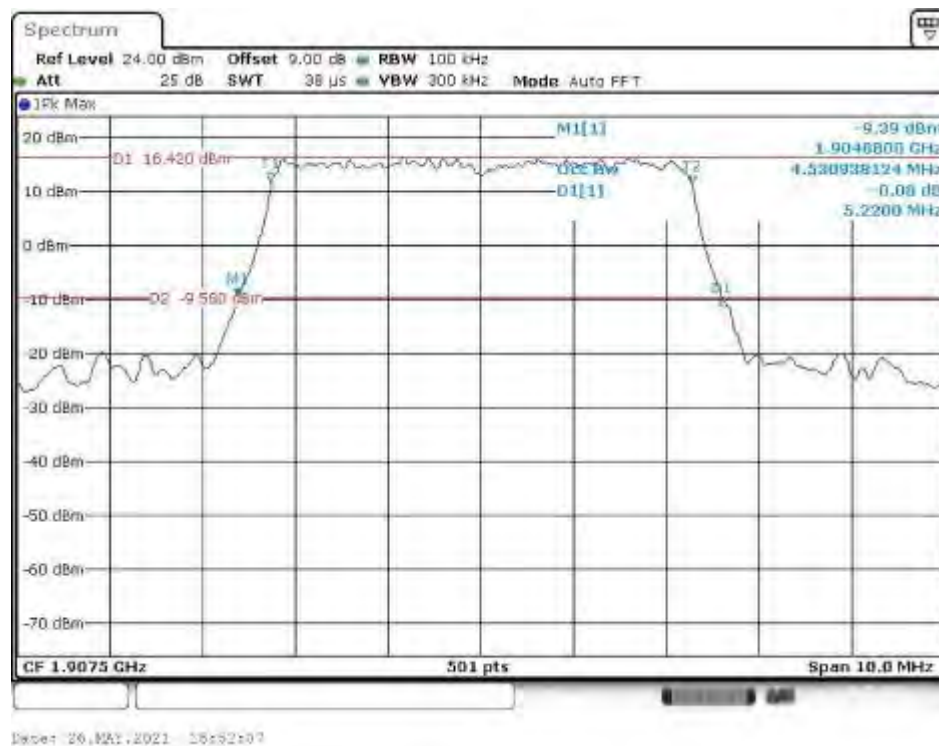
Band 2_5 MHz_Middle_16QAM_RB25#0



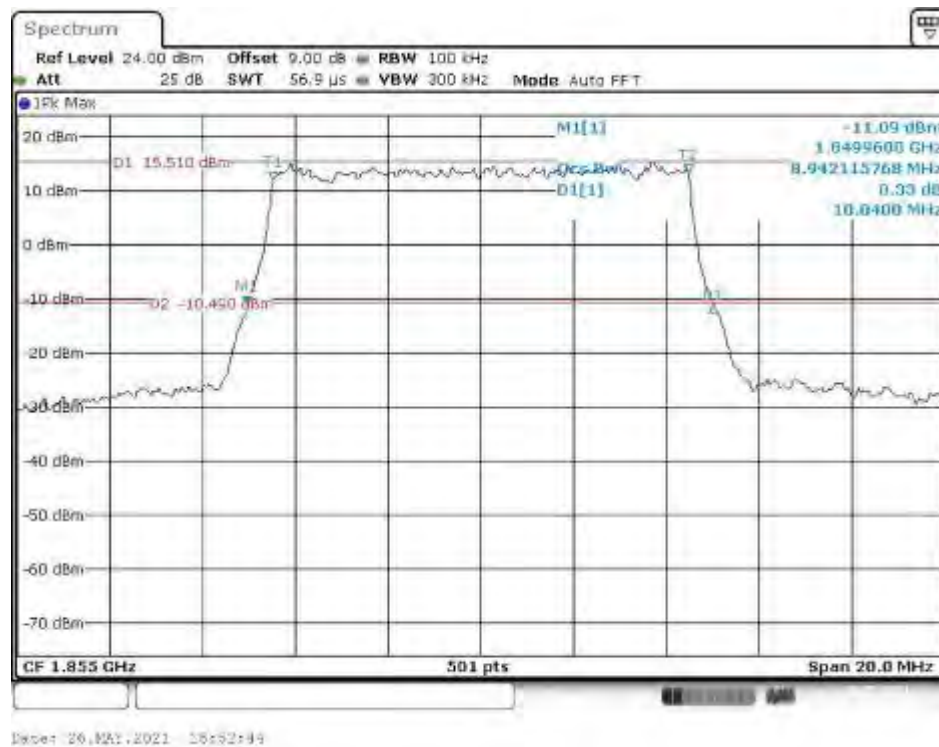
Band 2_5 MHz_High_QPSK_RB25#0



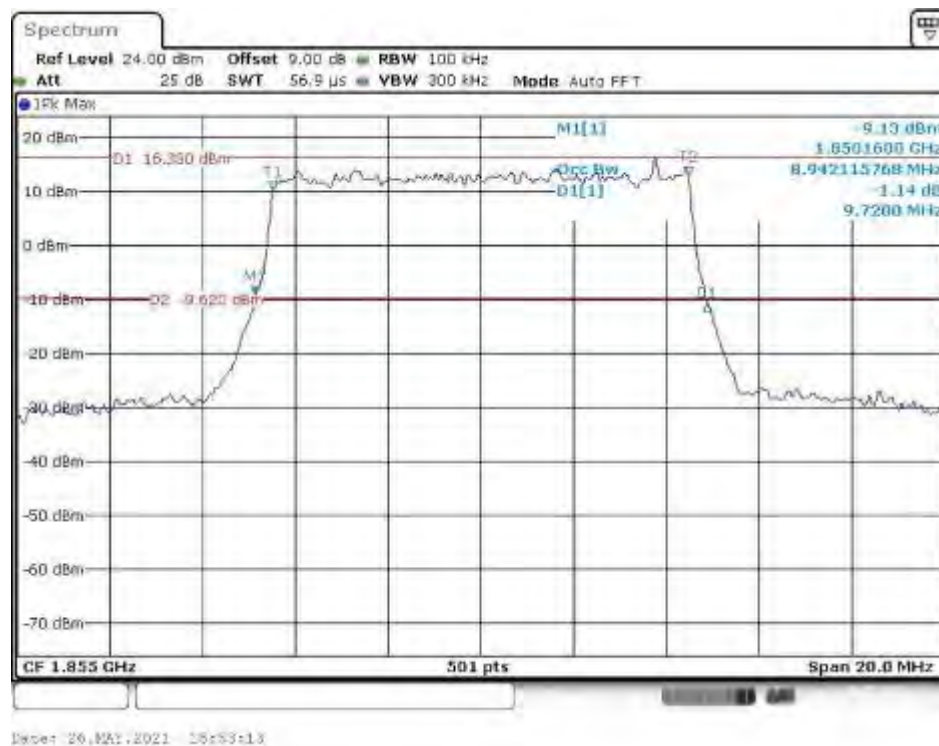
Band 2_5 MHz_High_16QAM_RB25#0



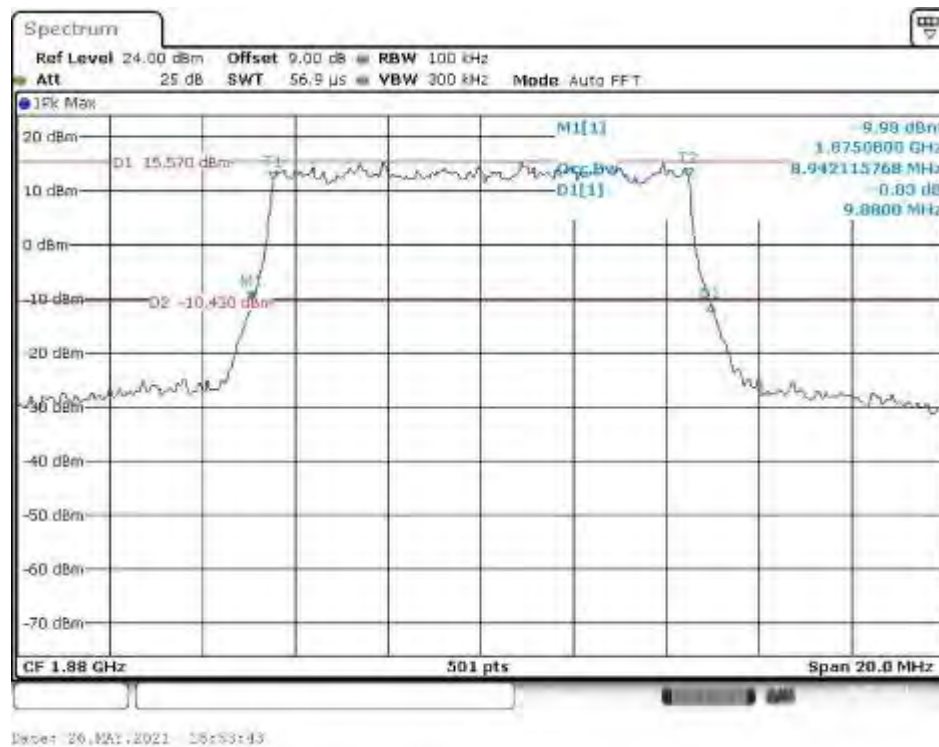
Band 2_10 MHz_Low_QPSK_RB50#0



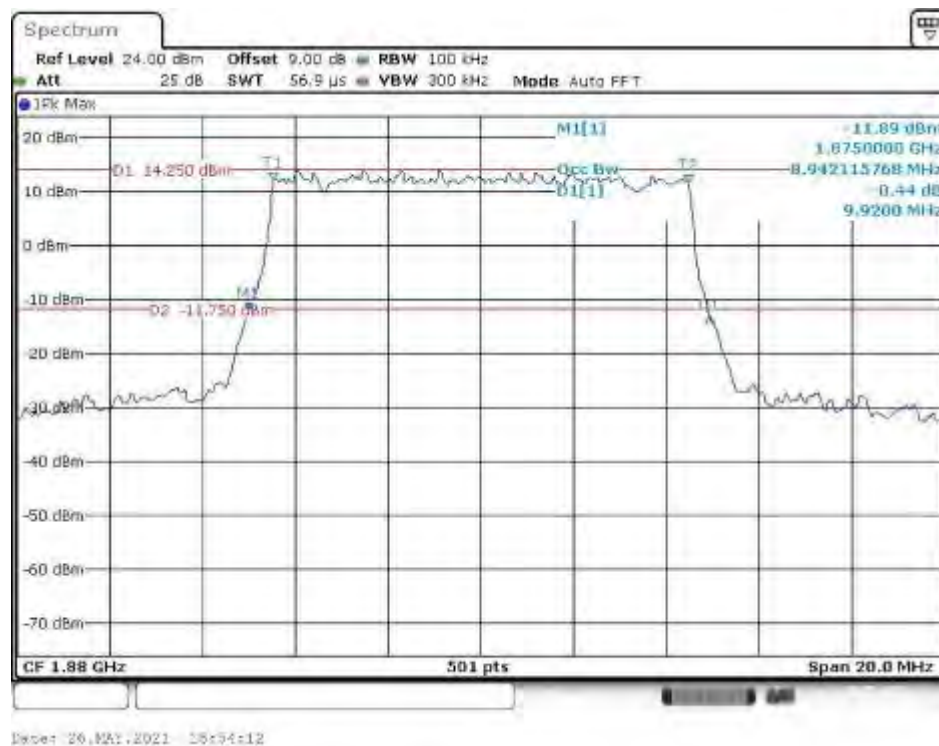
Band 2_10 MHz_Low_16QAM_RB50#0



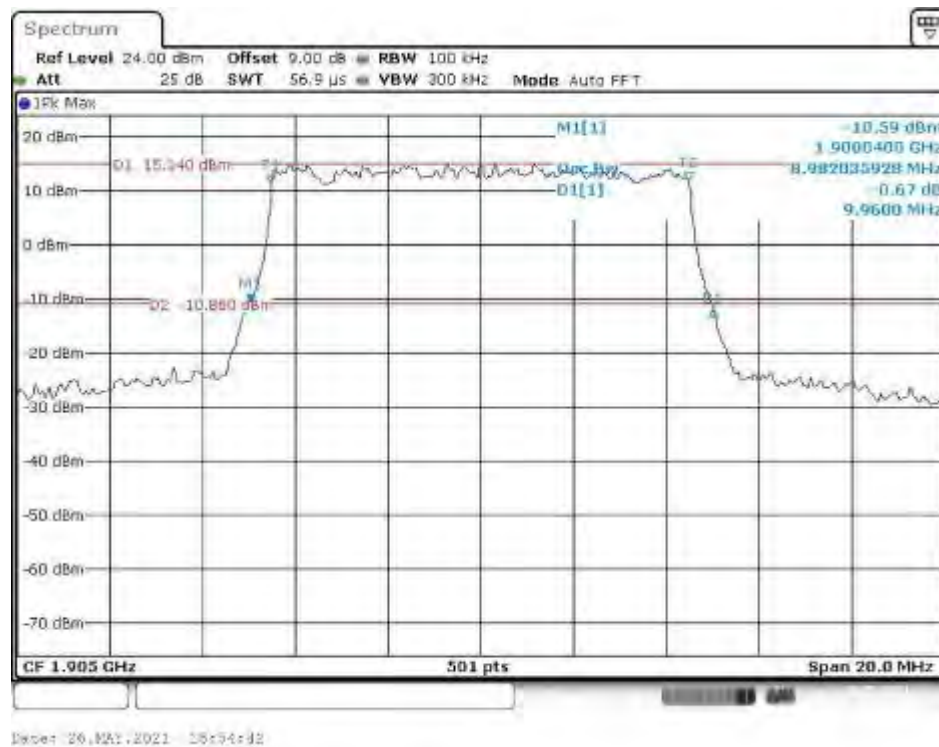
Band 2_10 MHz_Middle_QPSK_RB50#0



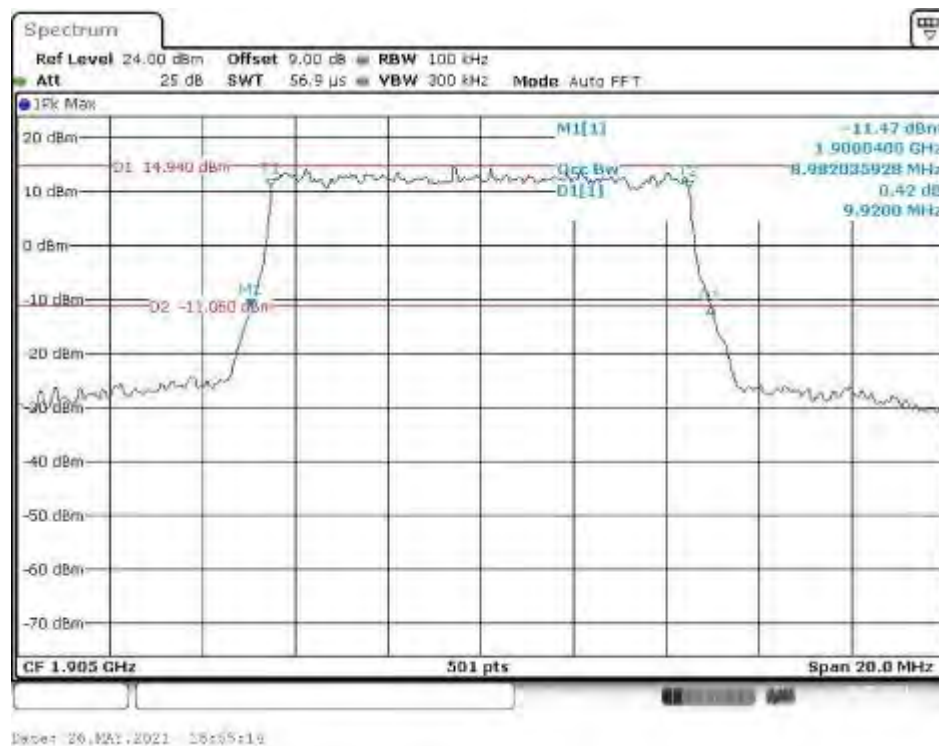
Band 2_10 MHz_Middle_16QAM_RB50#0



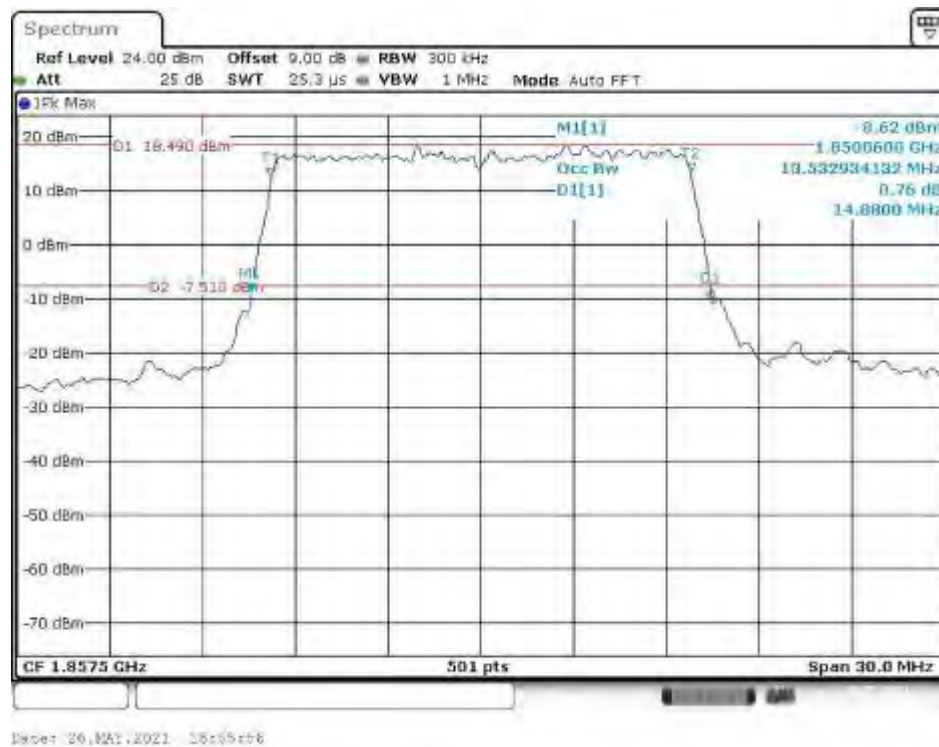
Band 2_10 MHz_High_QPSK_RB50#0



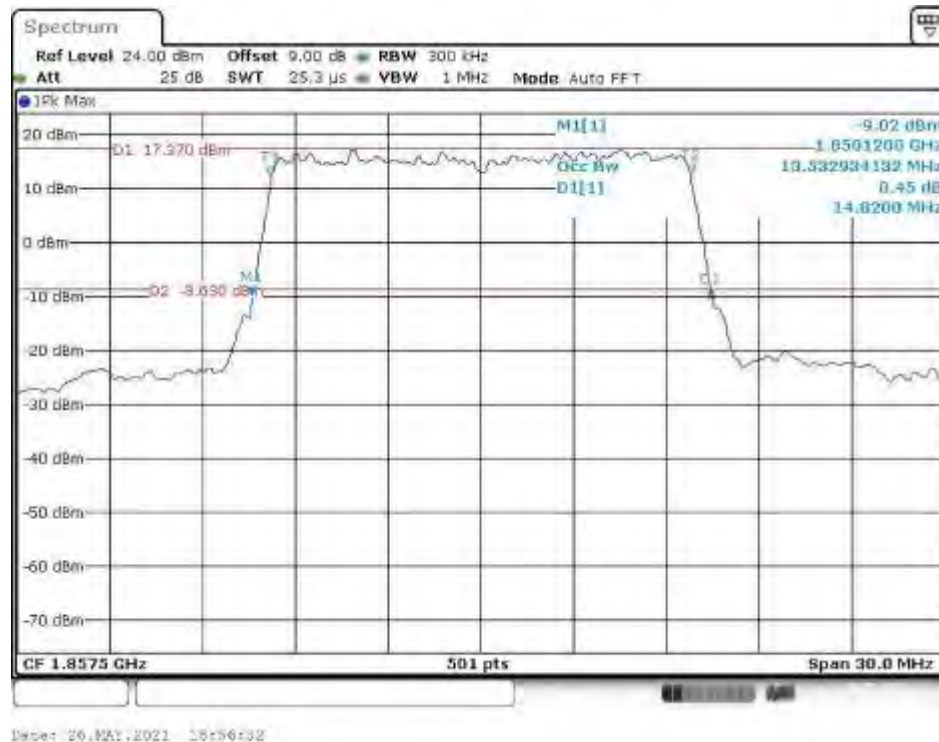
Band 2_10 MHz_High_16QAM_RB50#0



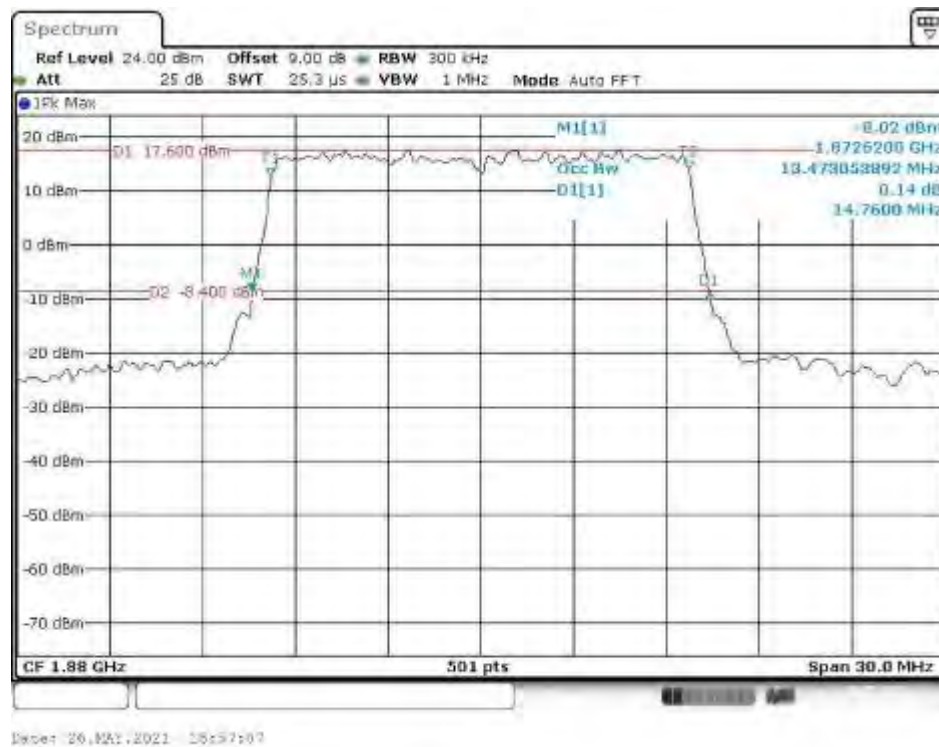
Band 2_15 MHz_Low_QPSK_RB75#0



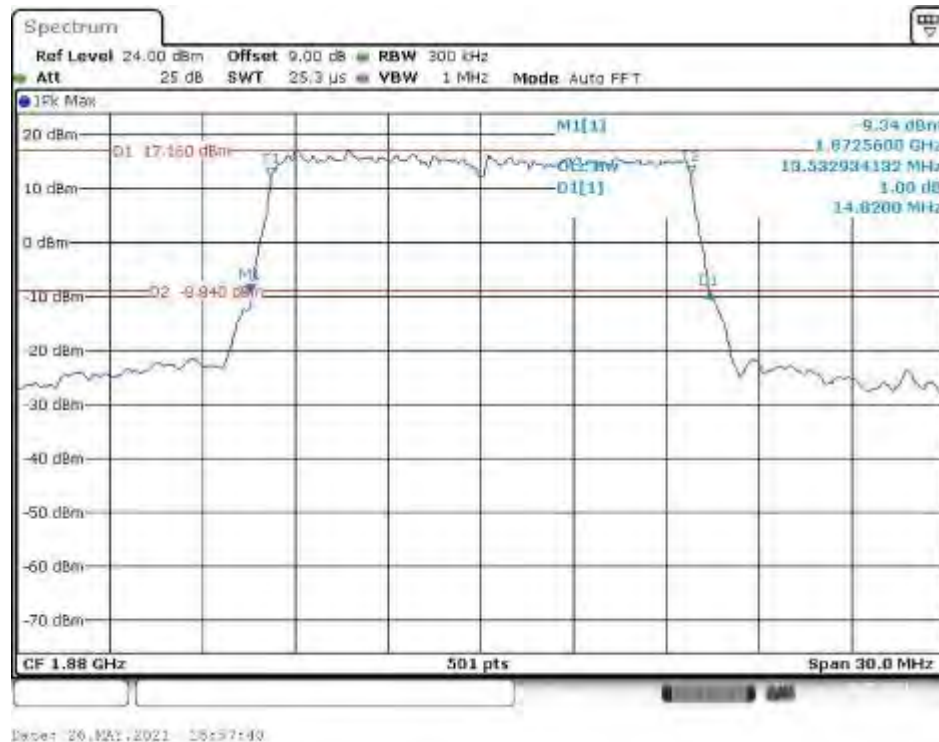
Band 2_15 MHz_Low_16QAM_RB75#0



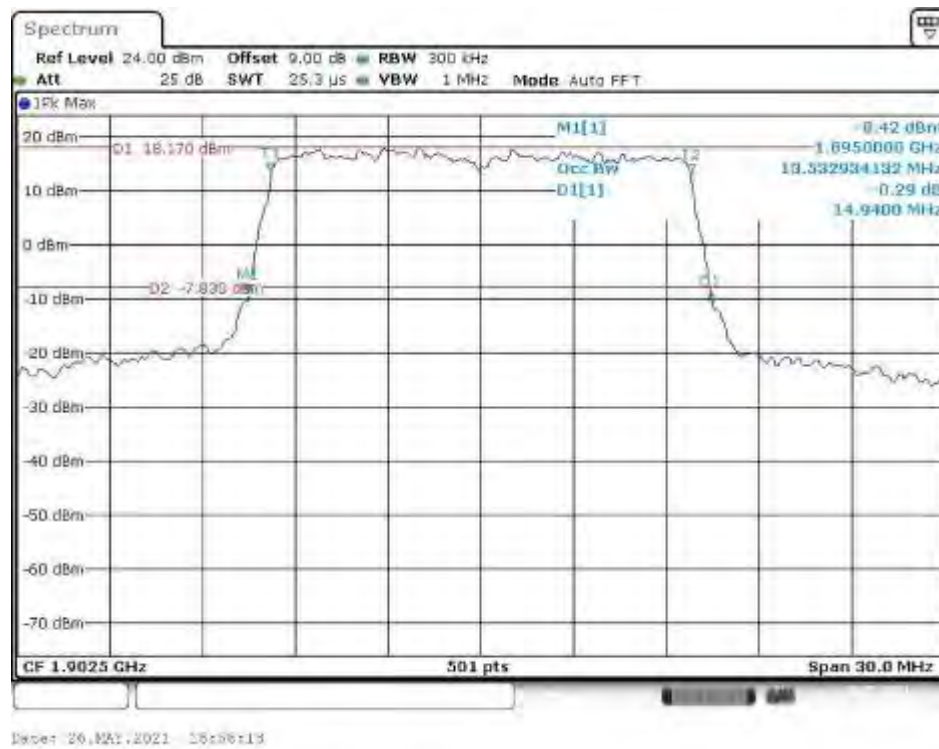
Band 2_15 MHz_Middle_QPSK_RB75#0



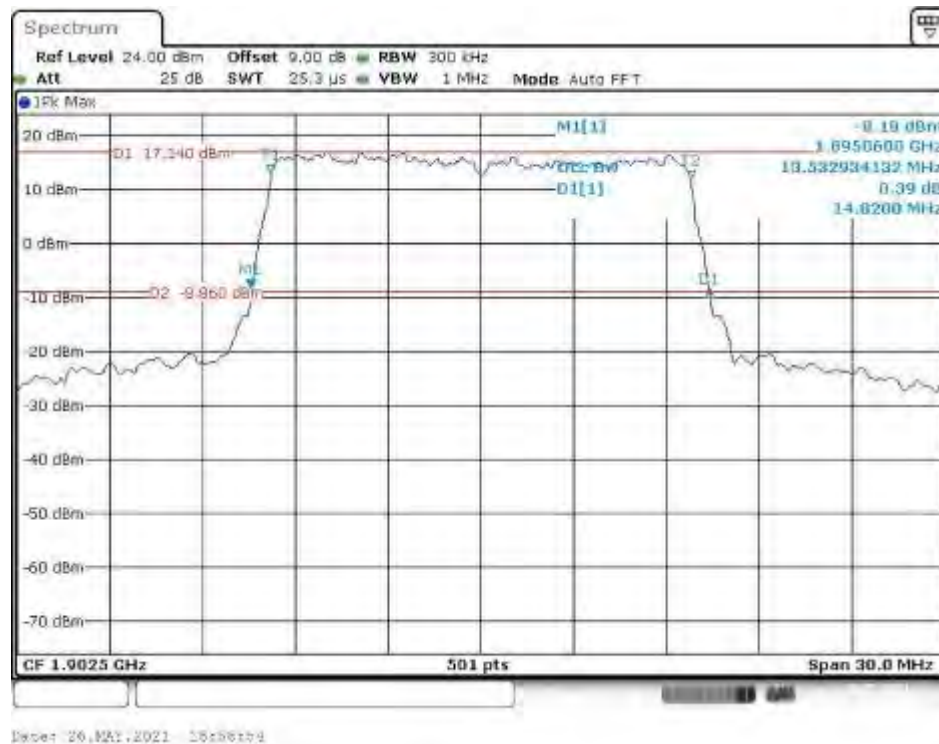
Band 2_15 MHz_Middle_16QAM_RB75#0



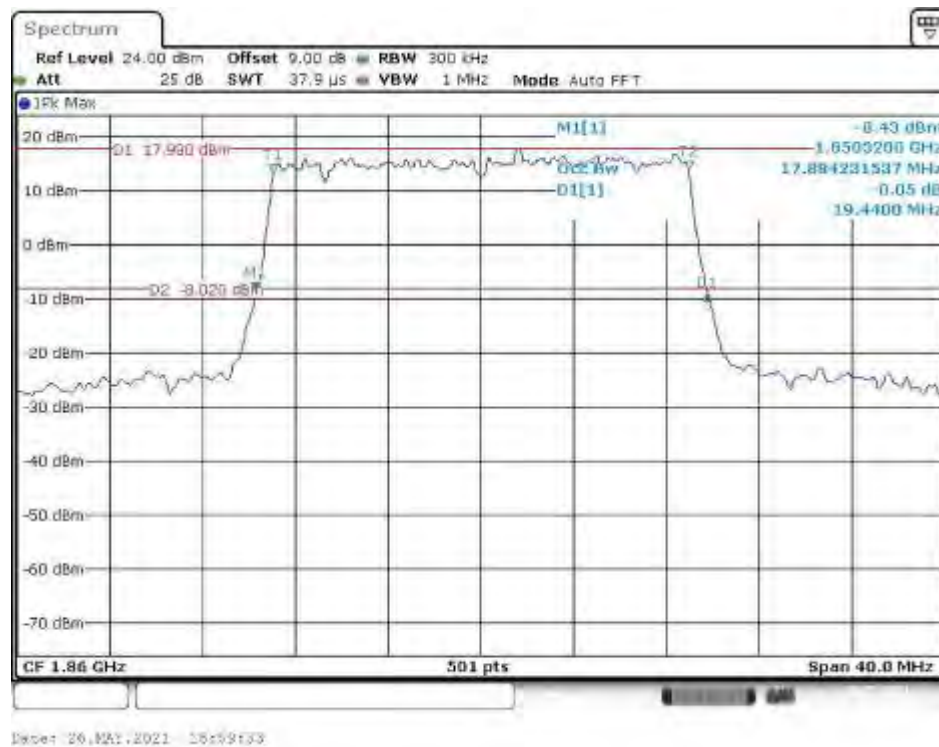
Band 2_15 MHz_High_QPSK_RB75#0



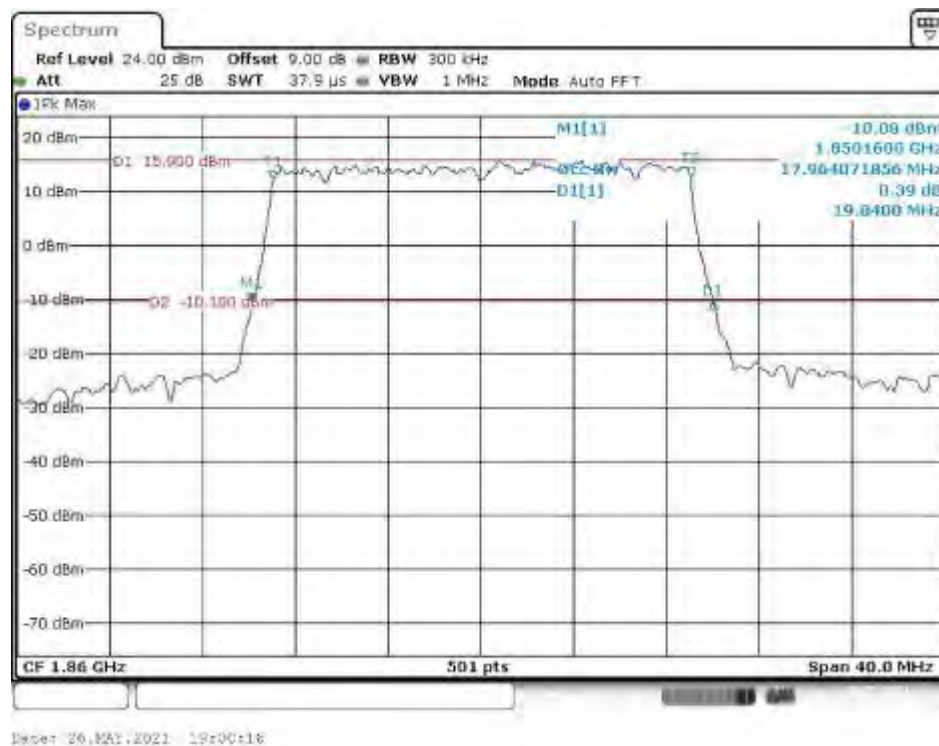
Band 2_15 MHz_High_16QAM_RB75#0



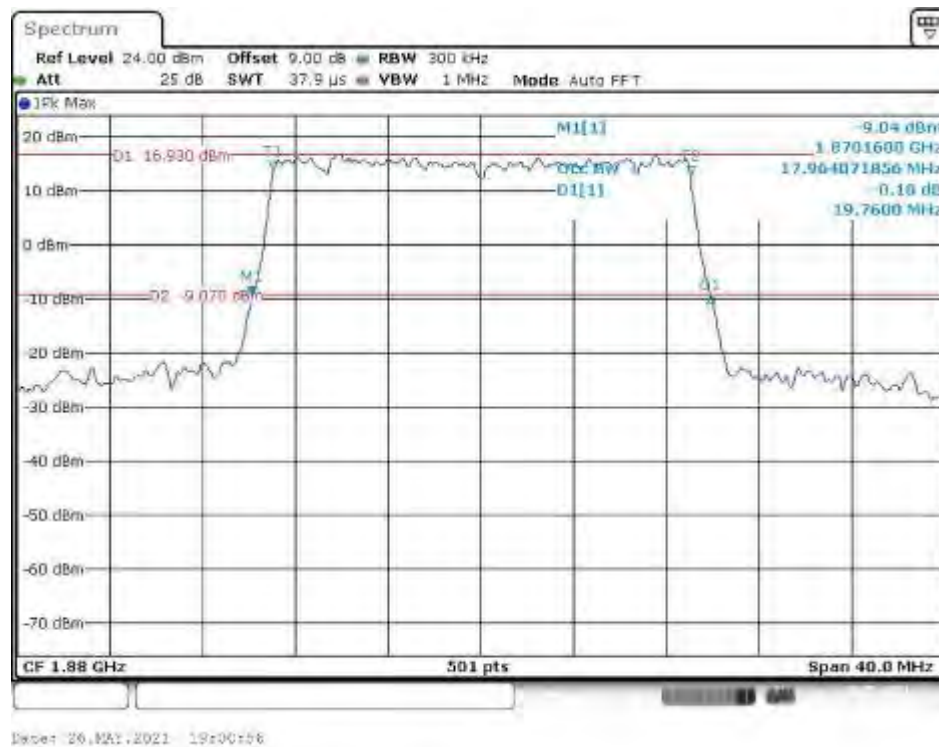
Band 2_20 MHz_Low_QPSK_RB100#0



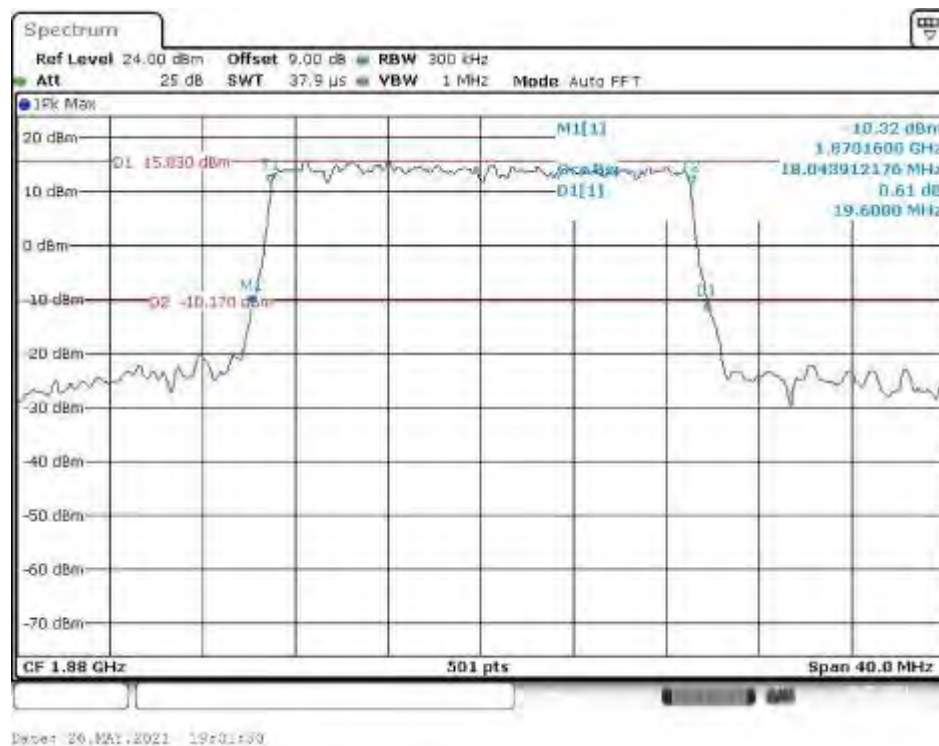
Band 2_20 MHz_Low_16QAM_RB100#0



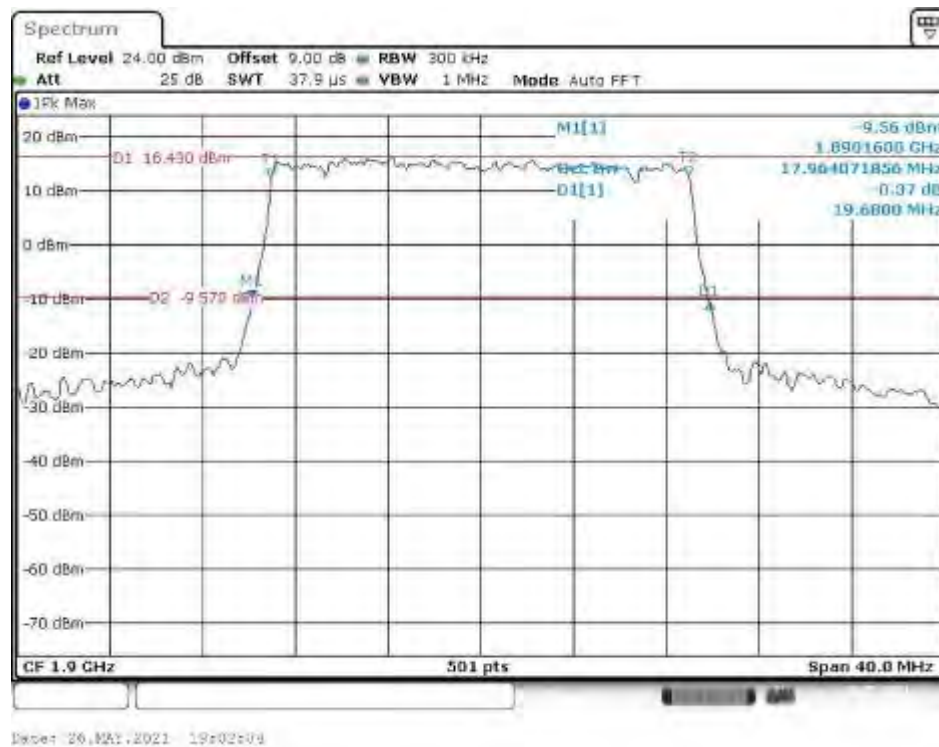
Band 2_20 MHz_Middle_QPSK_RB100#0



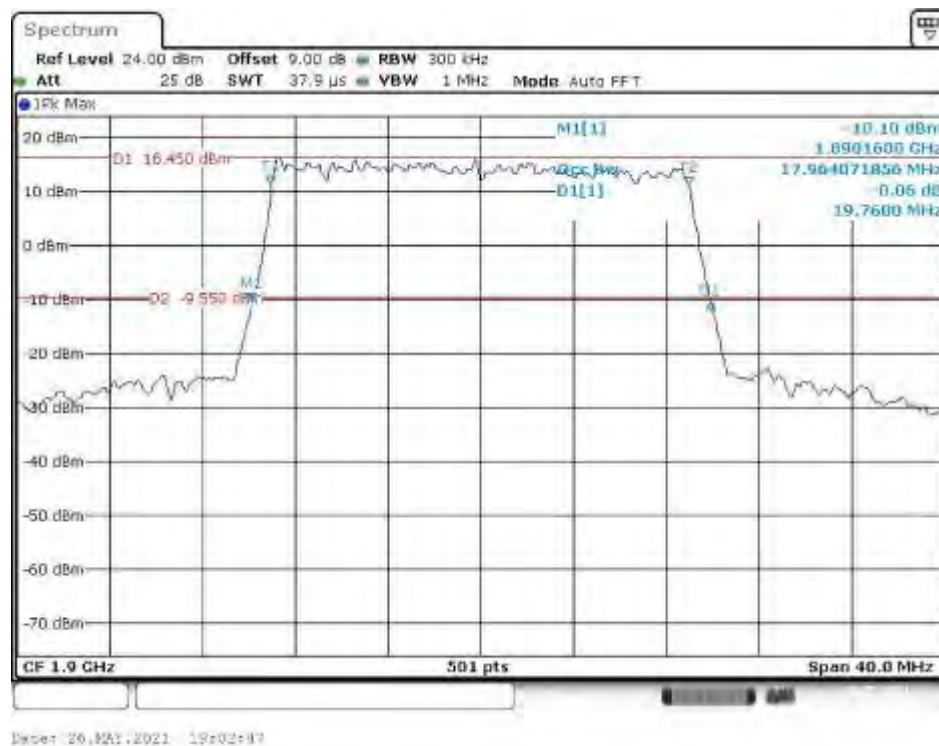
Band 2 20 MHz Middle 16QAM RB100#0



Band 2_20 MHz_High_QPSK_RB100#0



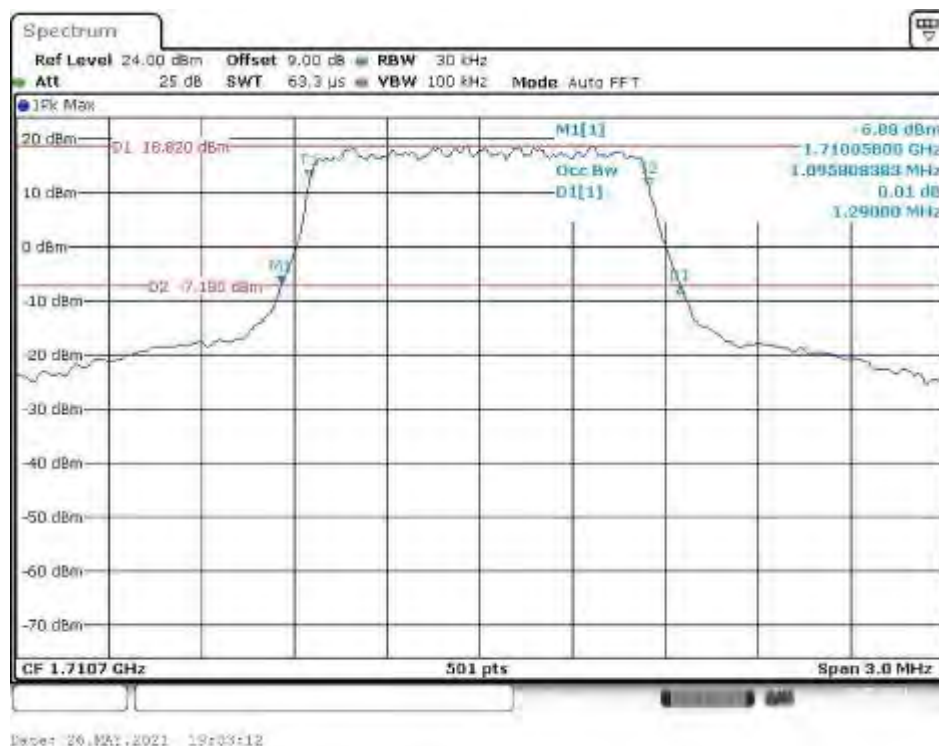
Band 2_20 MHz_High_16QAM_RB100#0



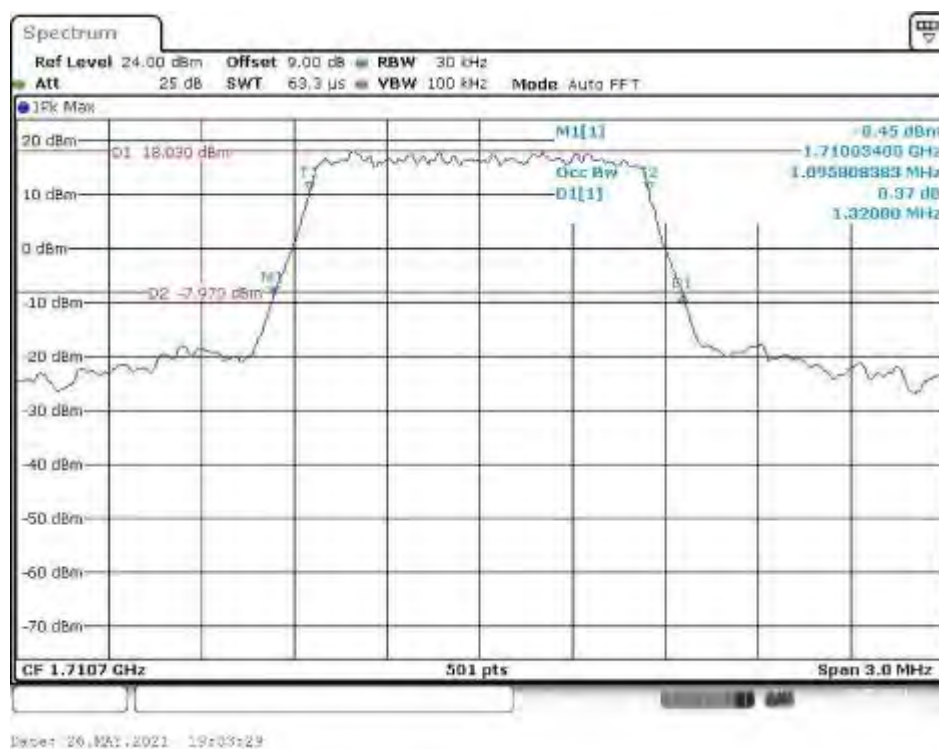
Band 4:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
1.4 MHz	QPSK	1.096	1.290	1.102	1.308	1.102	1.290
	16QAM	1.096	1.320	1.090	1.284	1.096	1.290
3 MHz	QPSK	2.683	2.868	2.683	2.868	2.683	2.892
	16QAM	2.683	2.880	2.683	2.880	2.683	2.868
5 MHz	QPSK	4.551	5.220	4.531	5.220	4.511	5.180
	16QAM	4.511	5.160	4.551	5.200	4.511	5.220
10 MHz	QPSK	8.942	9.880	8.942	9.880	8.982	9.920
	16QAM	8.942	9.800	8.942	9.760	8.982	9.880
15 MHz	QPSK	13.533	14.880	13.473	14.760	13.473	14.820
	16QAM	13.533	14.760	13.533	14.760	13.533	14.820
20 MHz	QPSK	17.964	19.520	17.884	19.520	17.964	19.600
	16QAM	17.964	19.760	17.884	19.520	17.884	19.680

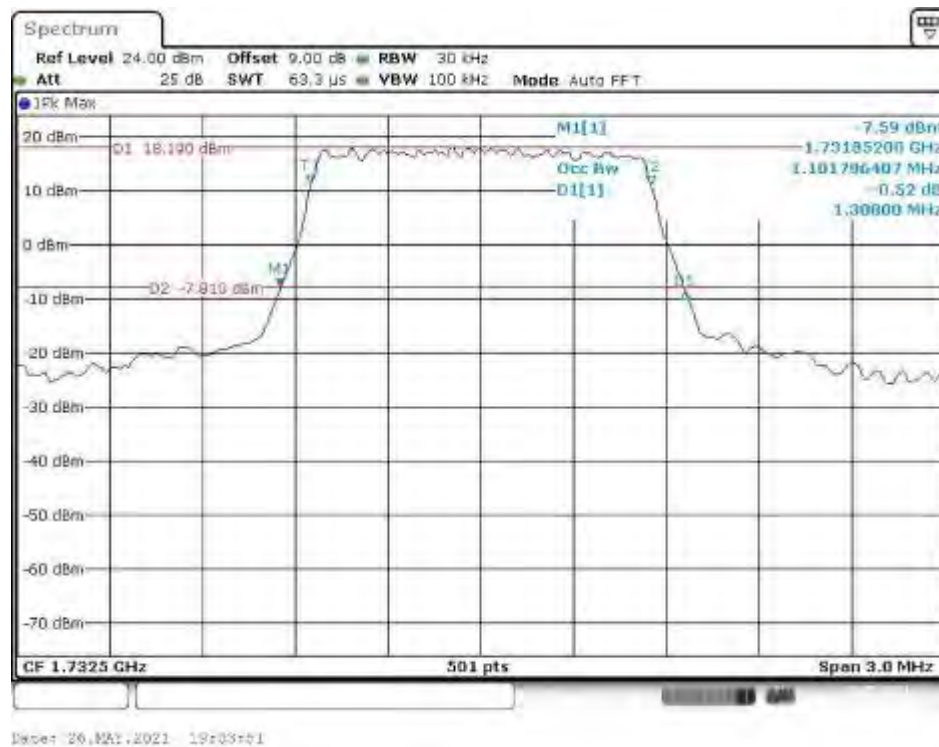
Band 4_1.4 MHz_Low_QPSK_RB6#0



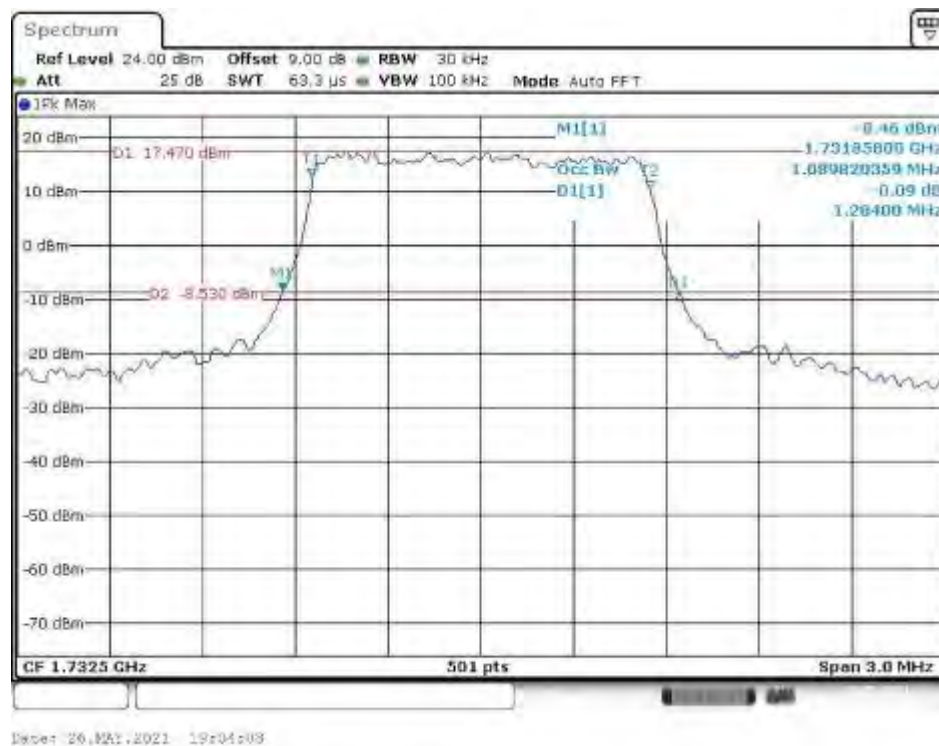
Band 4 1.4 MHz Low 16QAM RB6#0



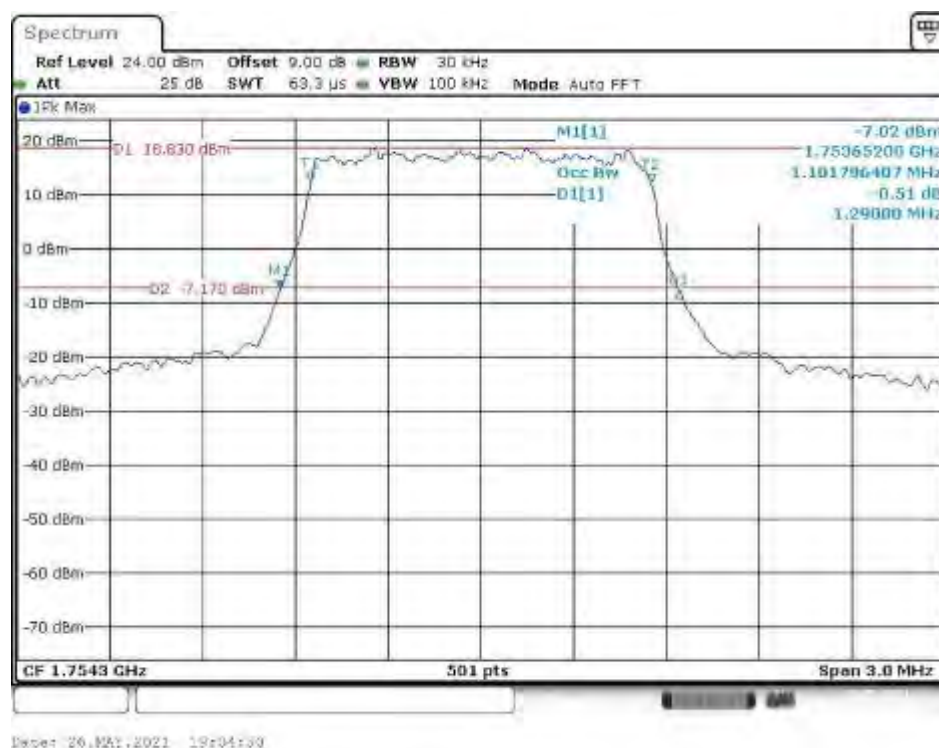
Band 4_1.4 MHz_Middle_QPSK_RB6#0



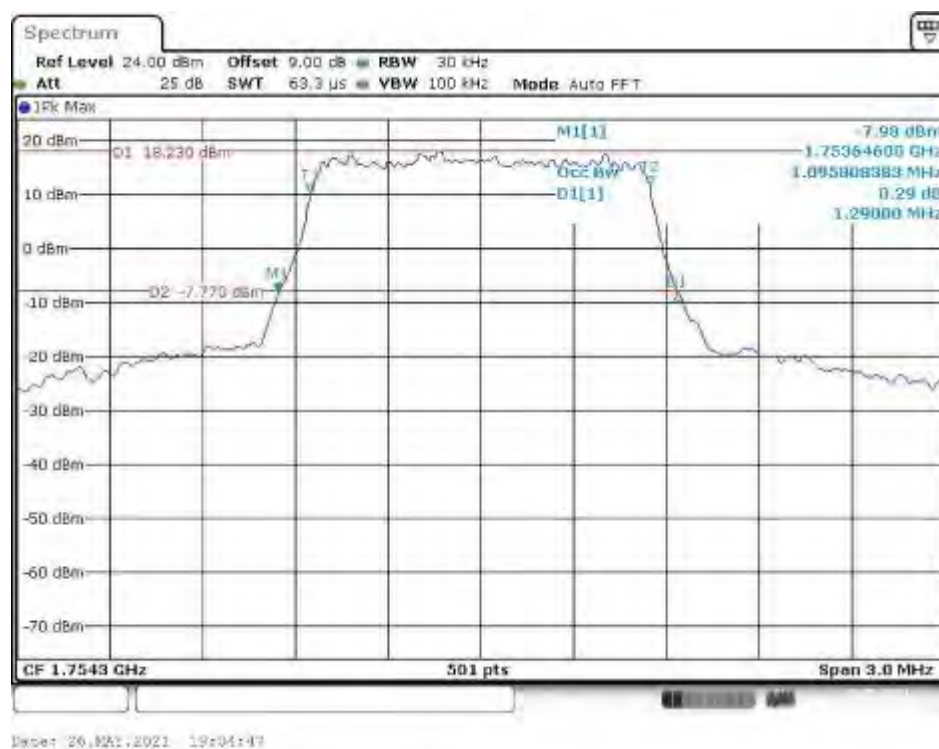
Band 4_1.4 MHz_Middle_16QAM_RB6#0



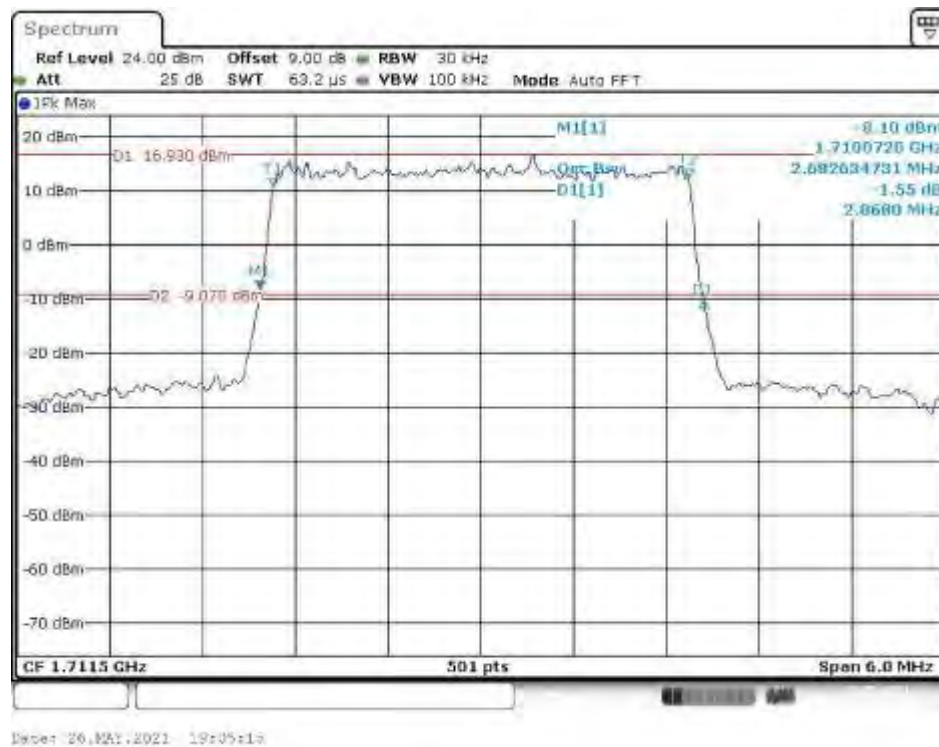
Band 4_1.4 MHz_High_QPSK_RB6#0



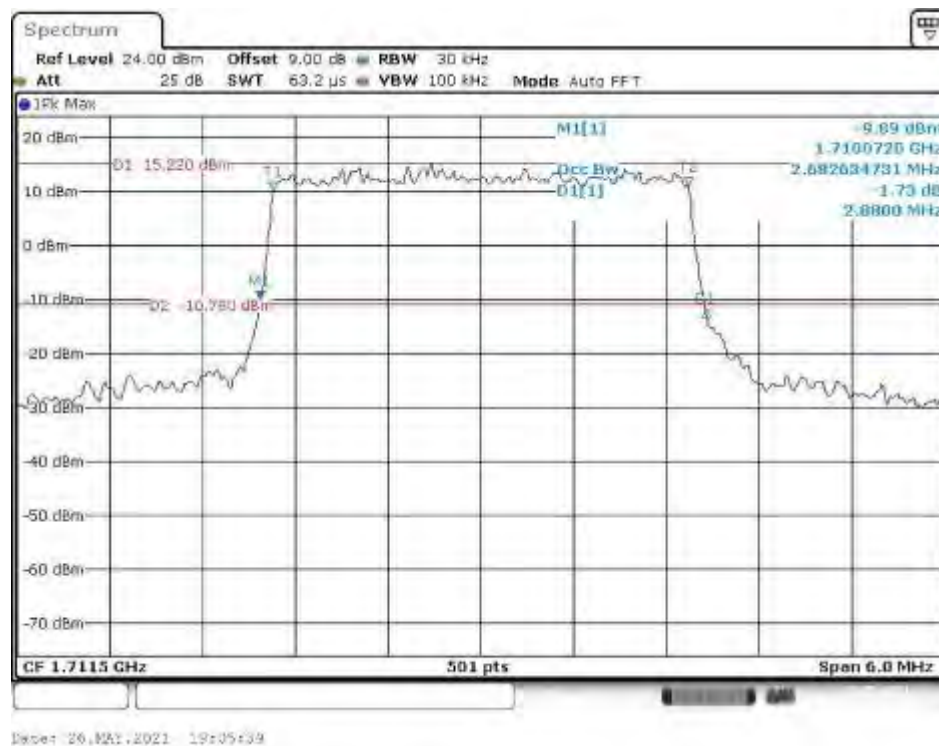
Band 4 1.4 MHz High 16QAM RB6#0



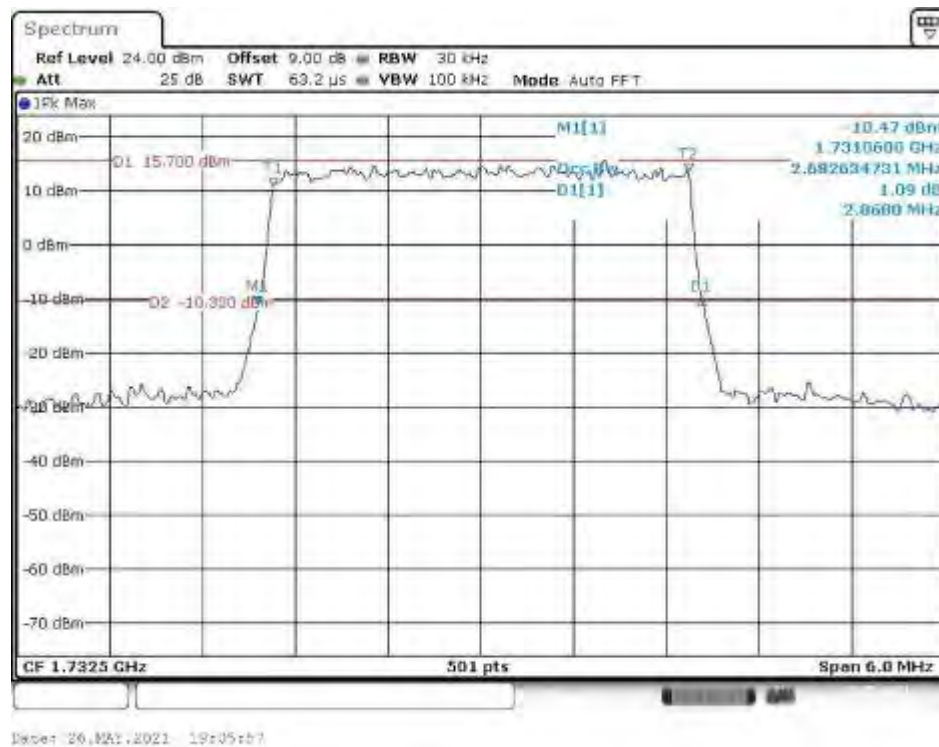
Band 4_3 MHz_Low_QPSK_RB15#0



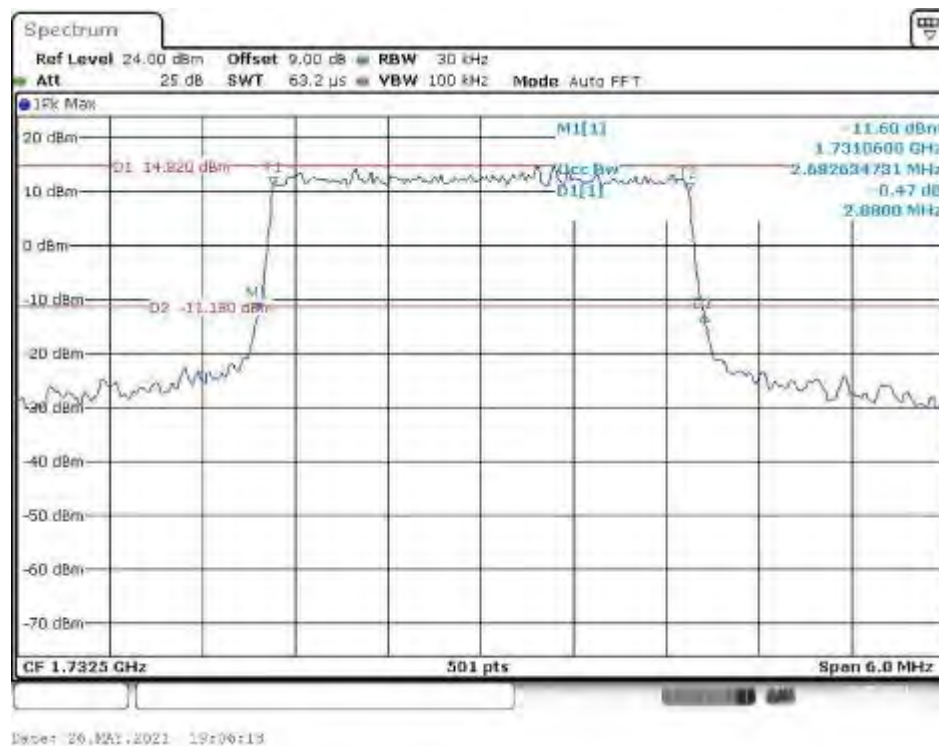
Band 4_3 MHz_Low_16QAM_RB15#0



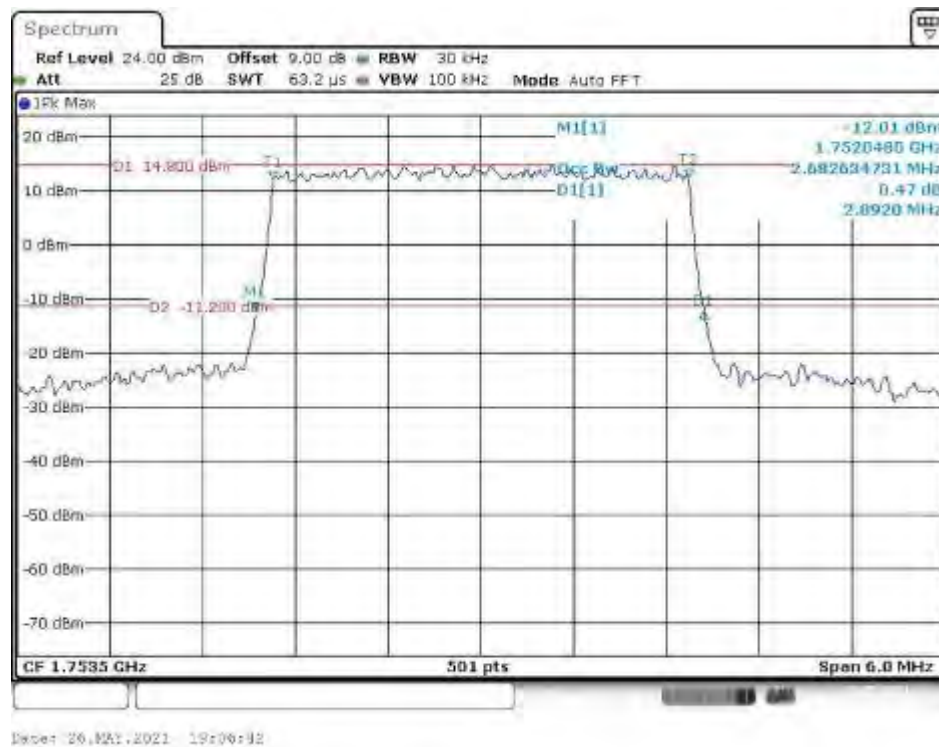
Band 4_3 MHz_Middle_QPSK_RB15#0



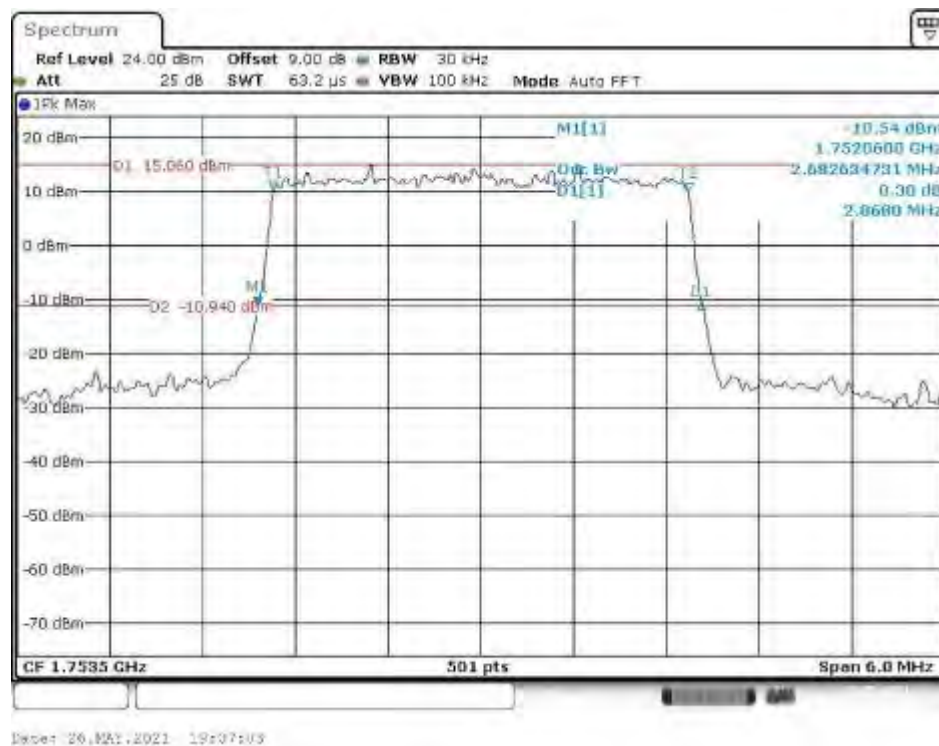
Band 4_3 MHz_Middle_16QAM_RB15#0



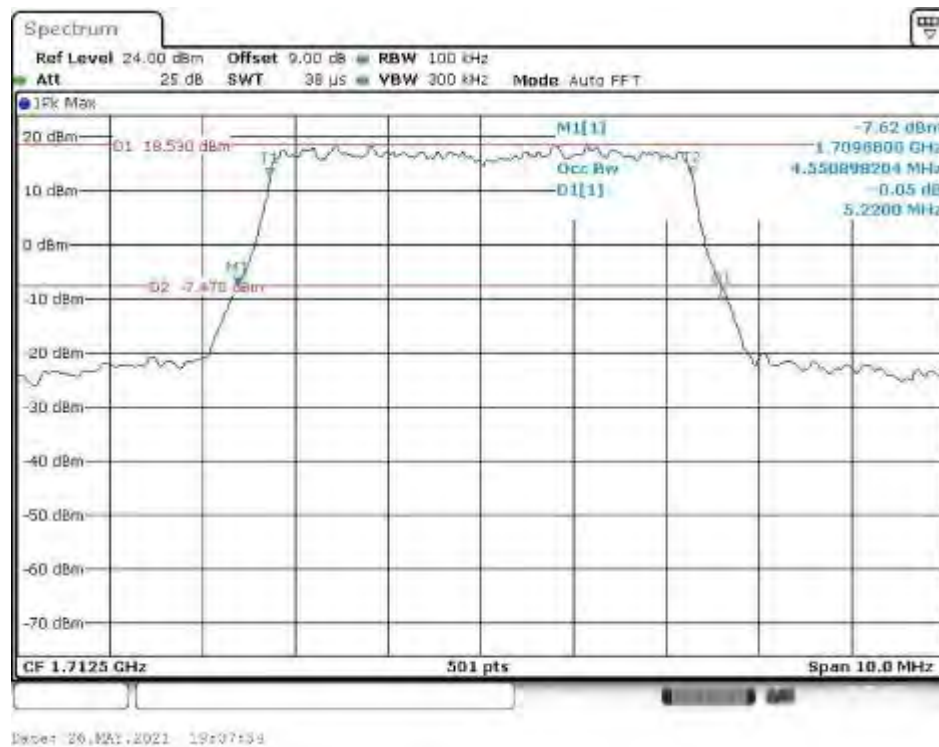
Band 4_3 MHz_High_QPSK_RB15#0



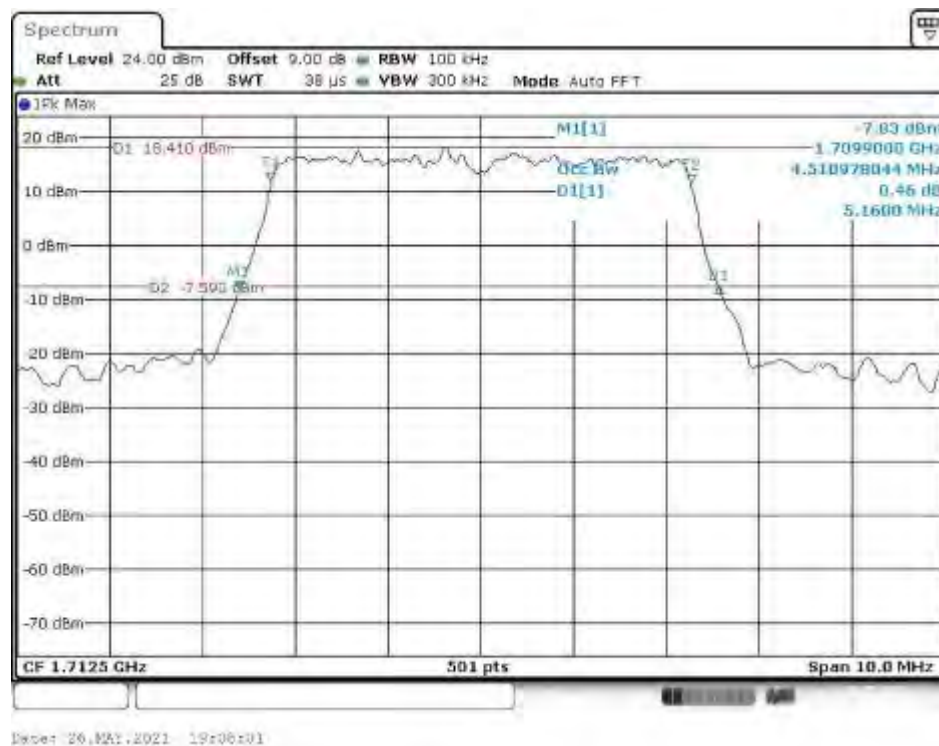
Band 4_3 MHz_High_16QAM_RB15#0



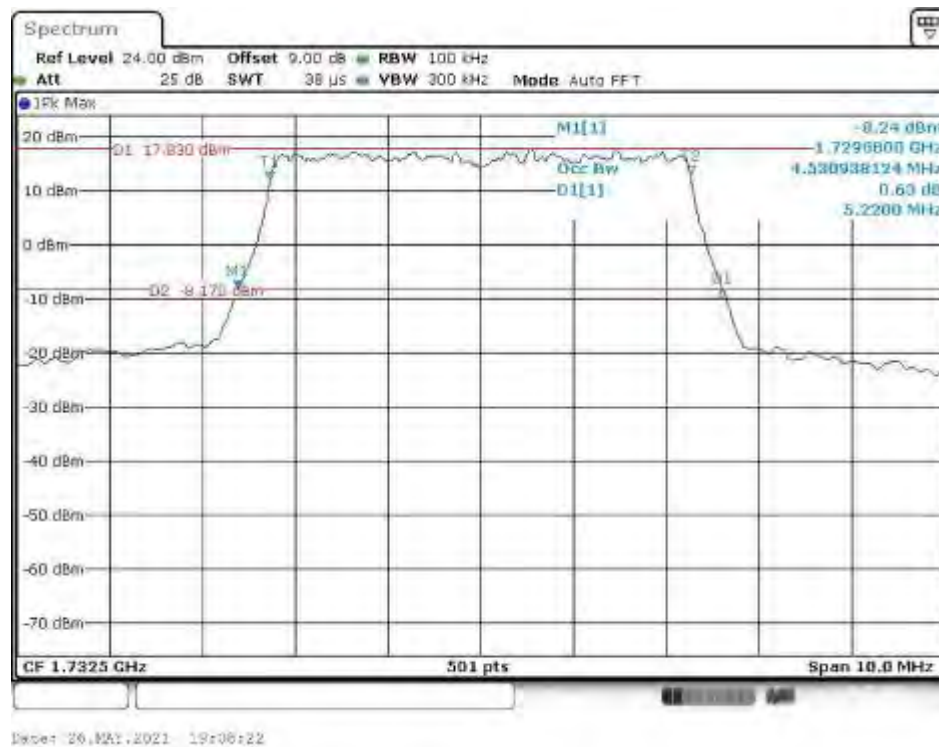
Band 4_5 MHz_Low_QPSK_RB25#0



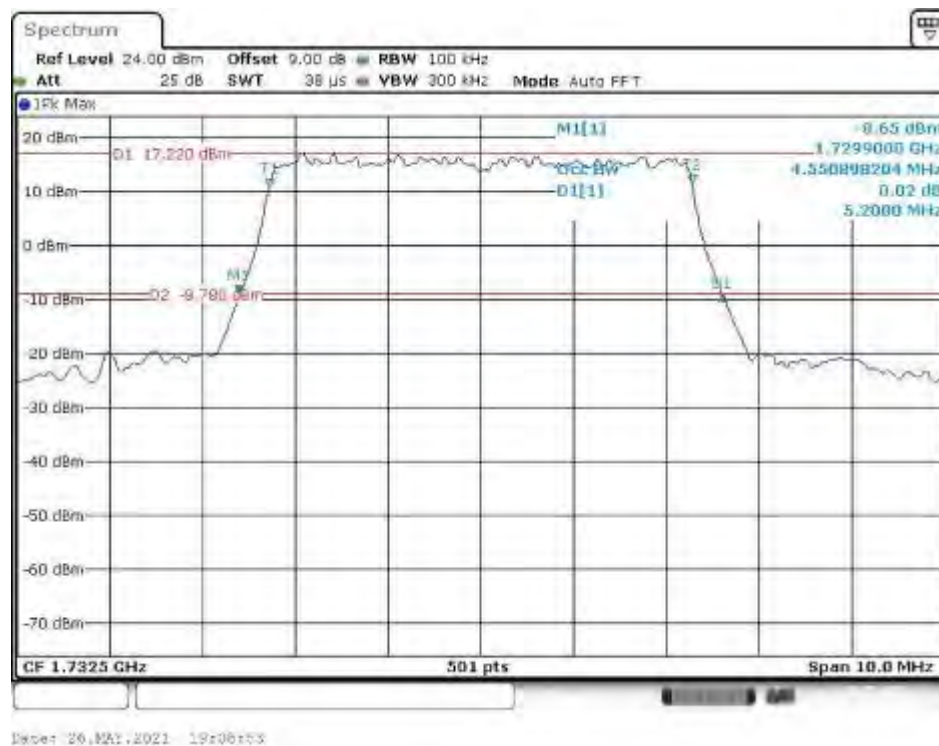
Band 4_5 MHz_Low_16QAM_RB25#0



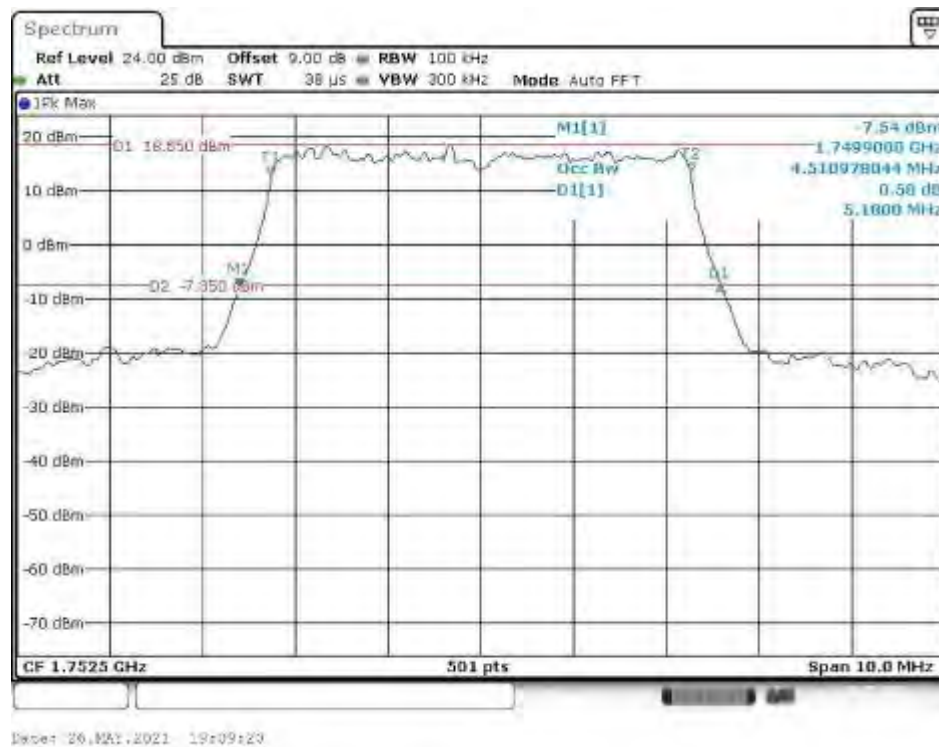
Band 4_5 MHz_Middle_QPSK_RB25#0



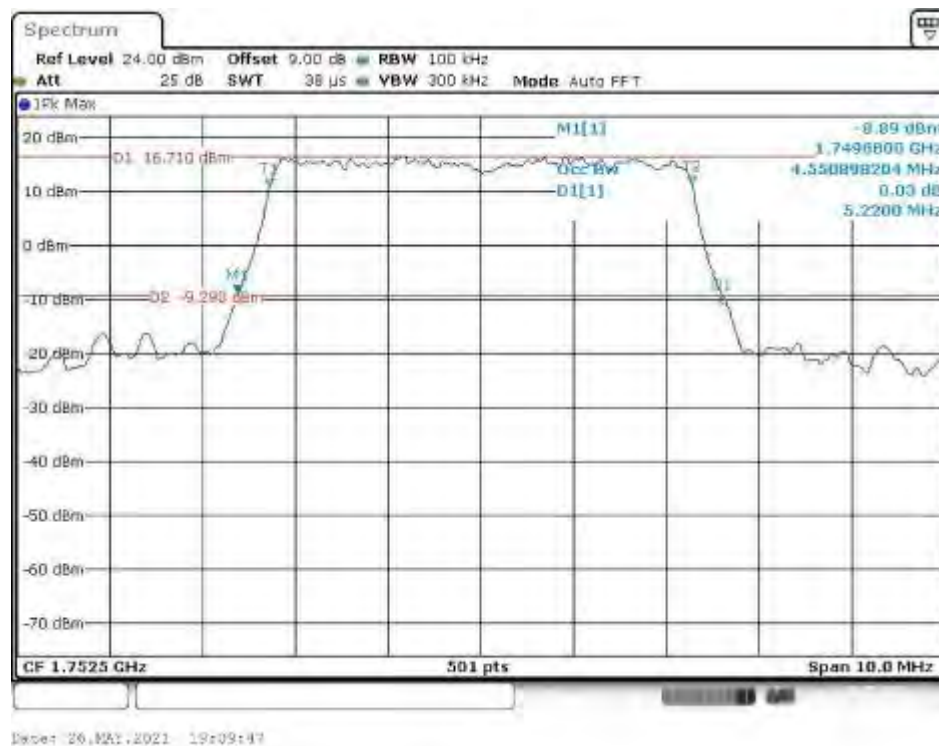
Band 4_5 MHz_Middle_16QAM_RB25#0



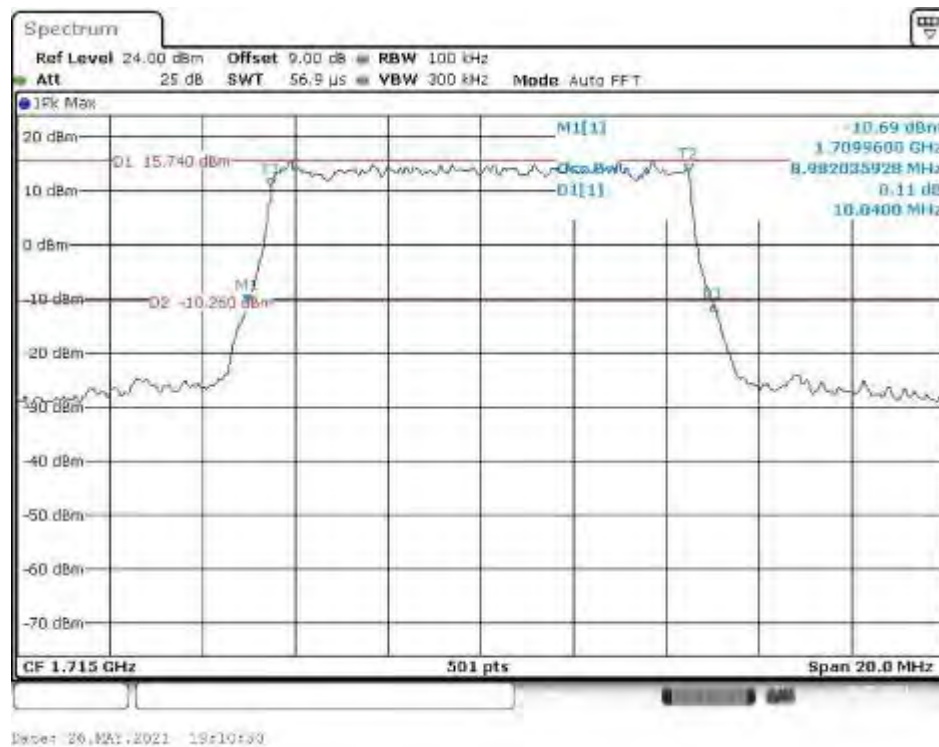
Band 4_5 MHz_High_QPSK_RB25#0



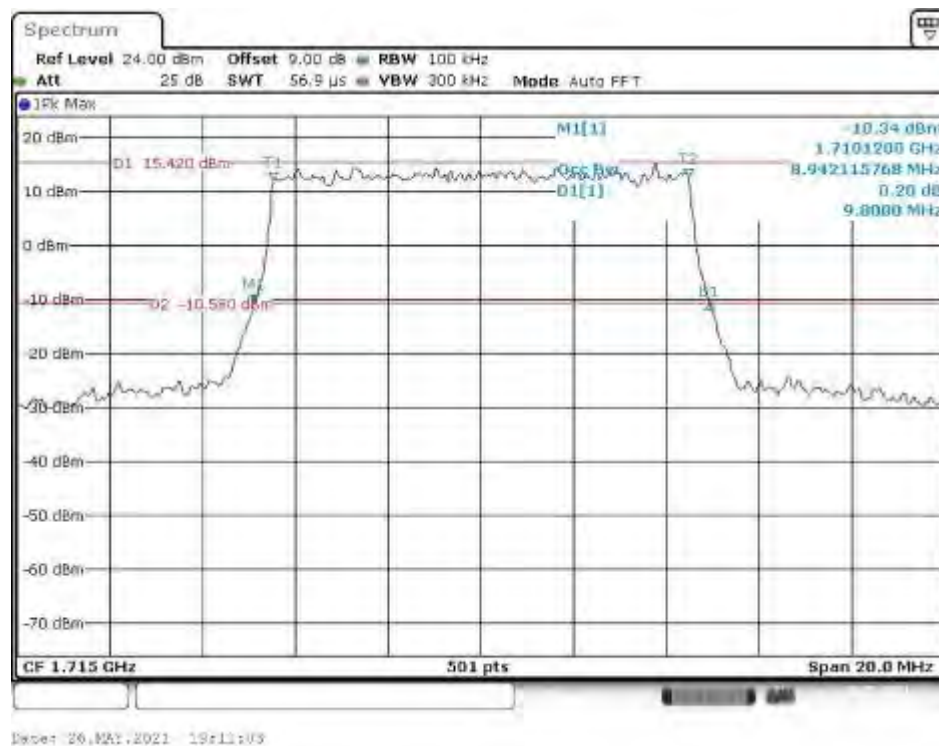
Band 4_5 MHz_High_16QAM_RB25#0



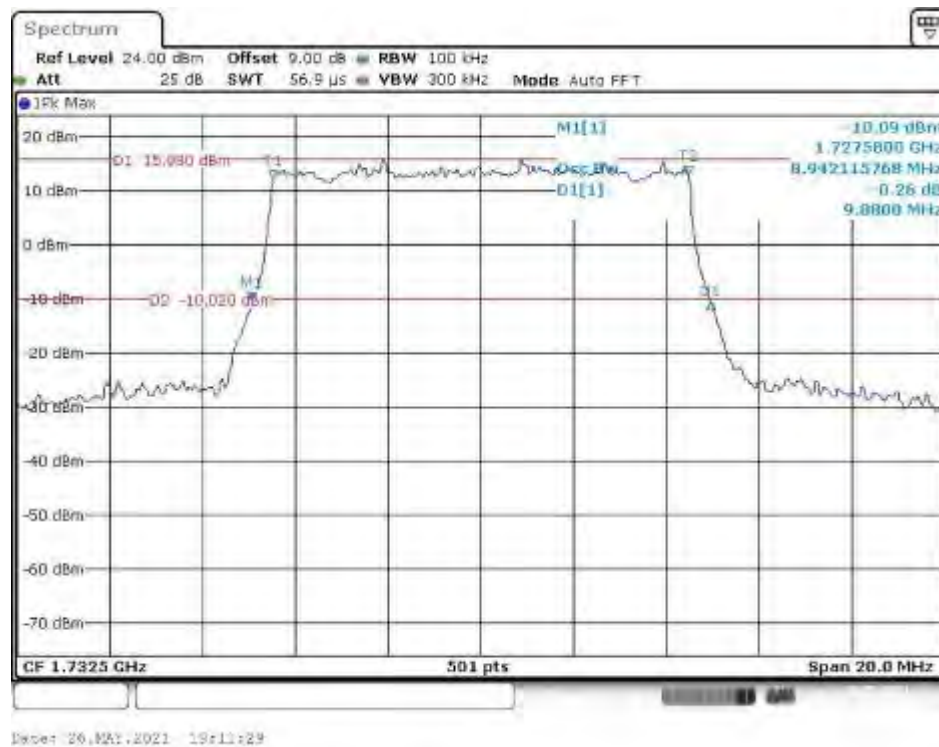
Band 4_10 MHz_Low_QPSK_RB50#0



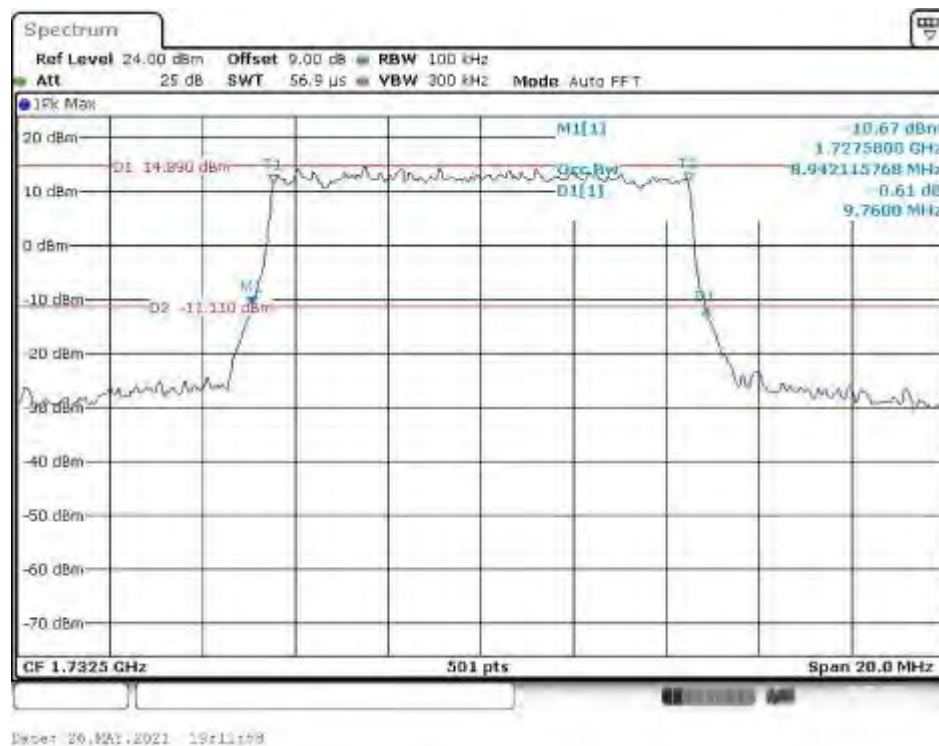
Band 4_10 MHz_Low_16QAM_RB50#0



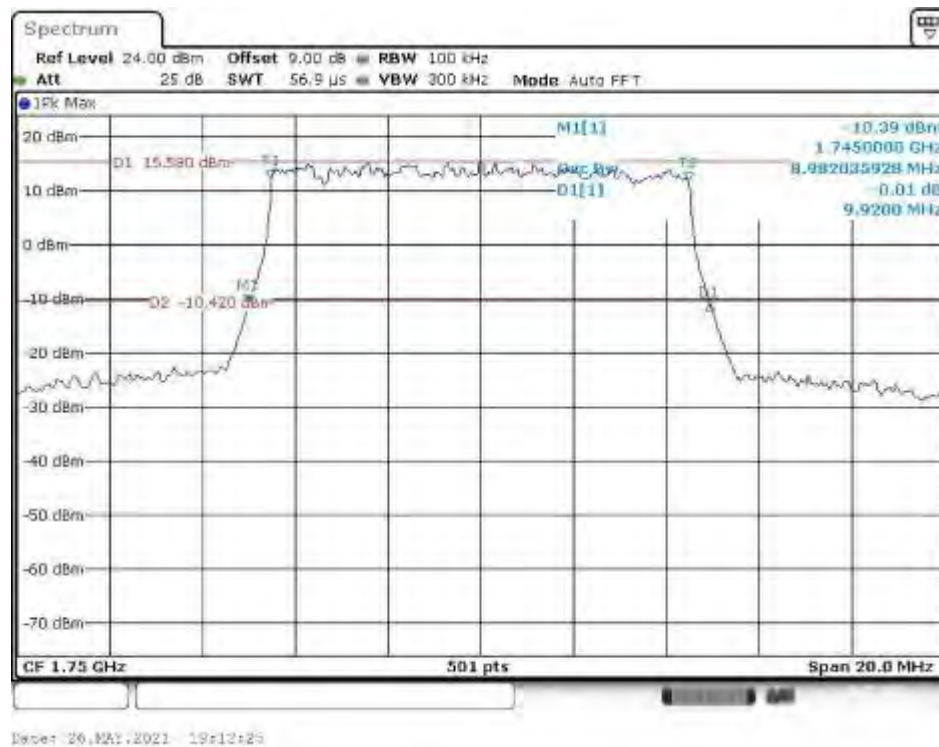
Band 4_10 MHz_Middle_QPSK_RB50#0



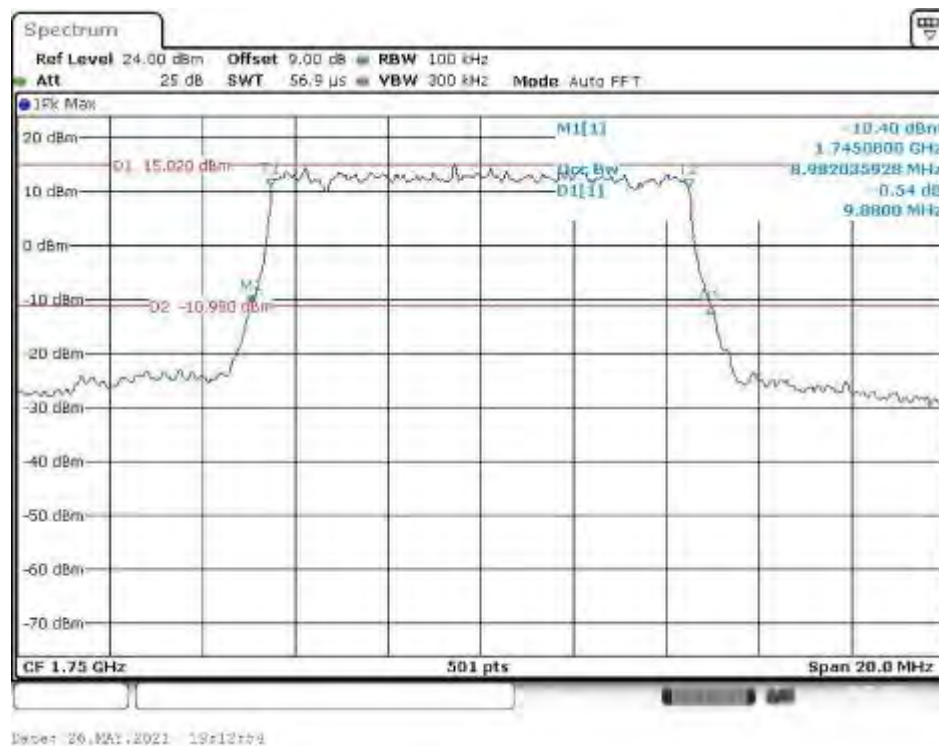
Band 4 10 MHz Middle 16QAM RB50#0



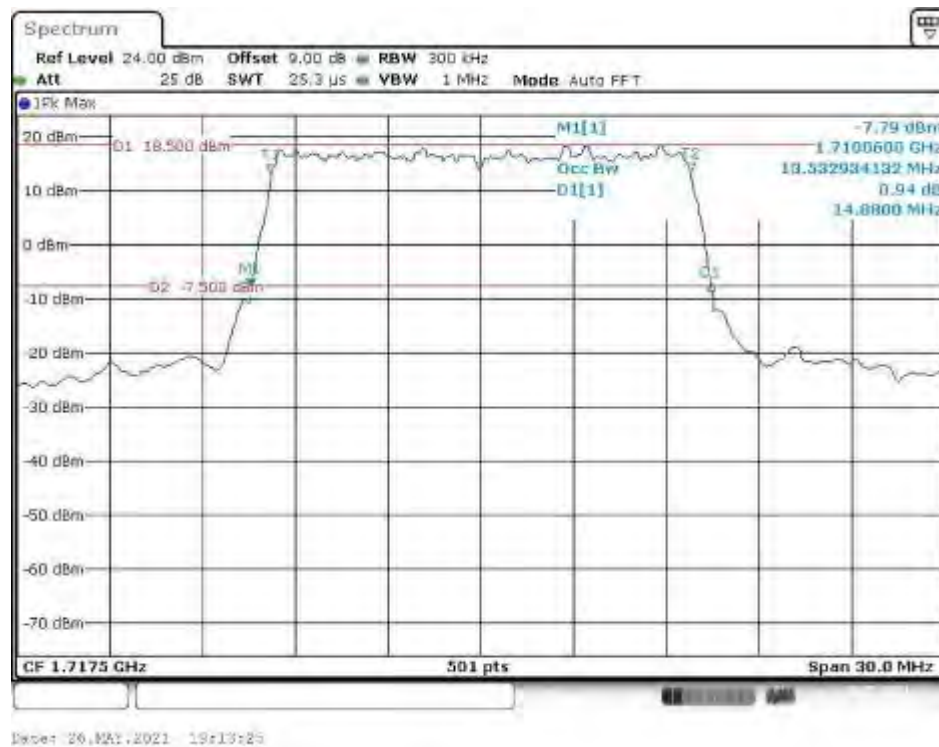
Band 4_10 MHz_High_QPSK_RB50#0



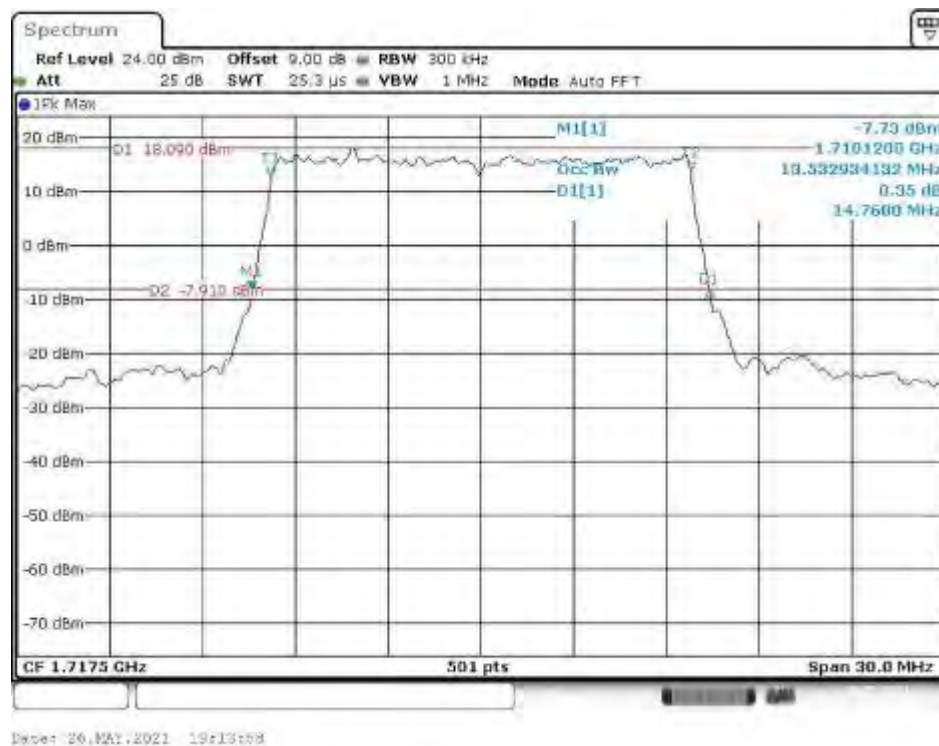
Band 4_10 MHz_High_16QAM_RB50#0



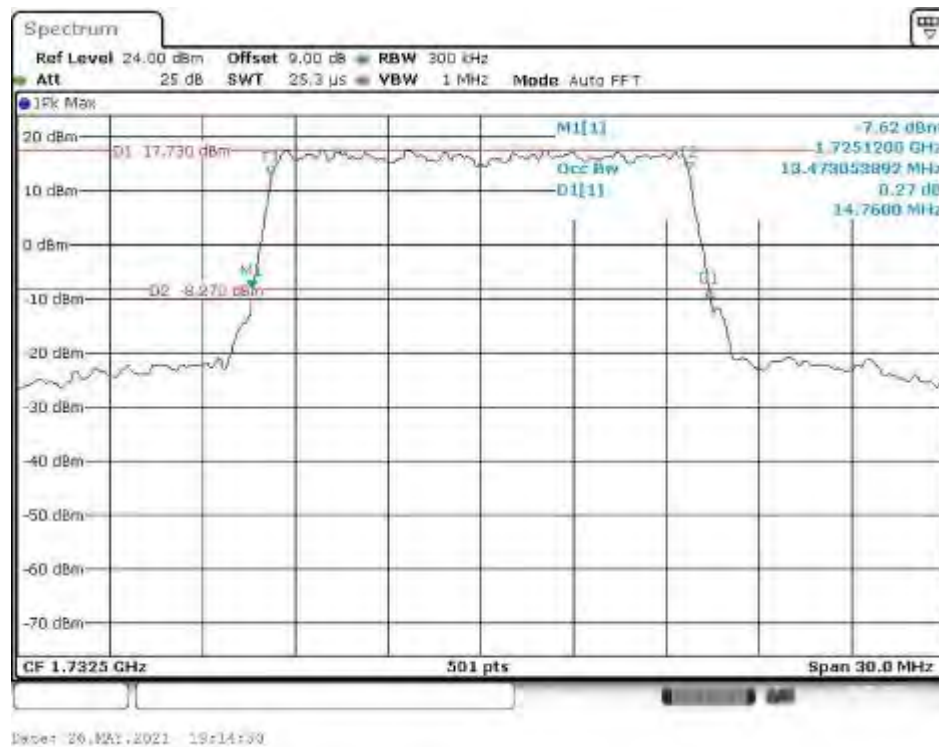
Band 4_15 MHz_Low_QPSK_RB75#0



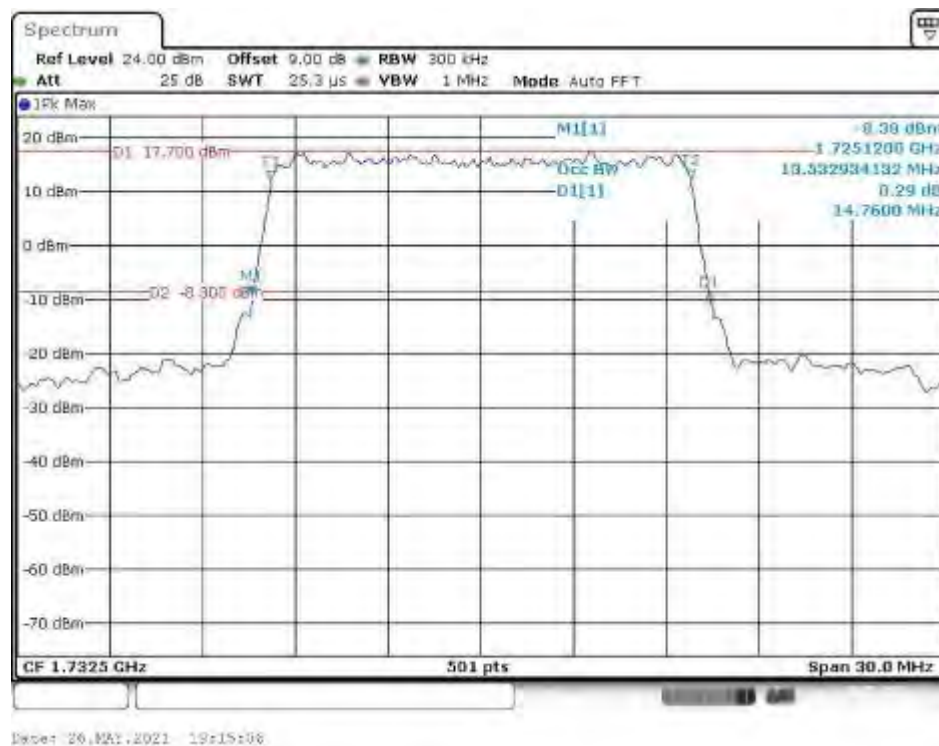
Band 4_15 MHz_Low_16QAM_RB75#0



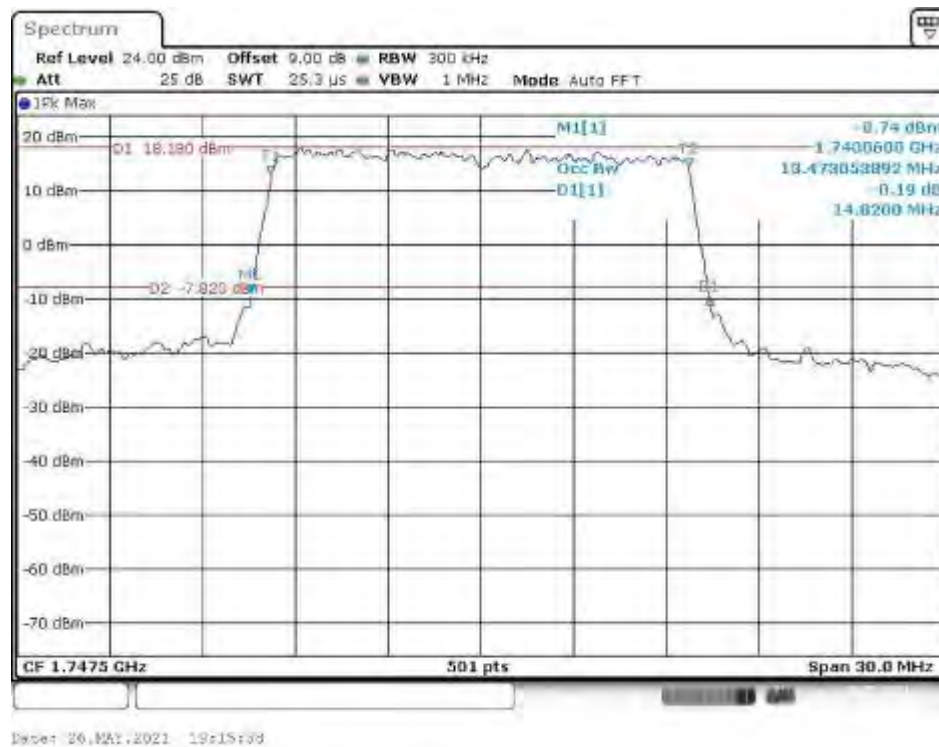
Band 4_15 MHz_Middle_QPSK_RB75#0



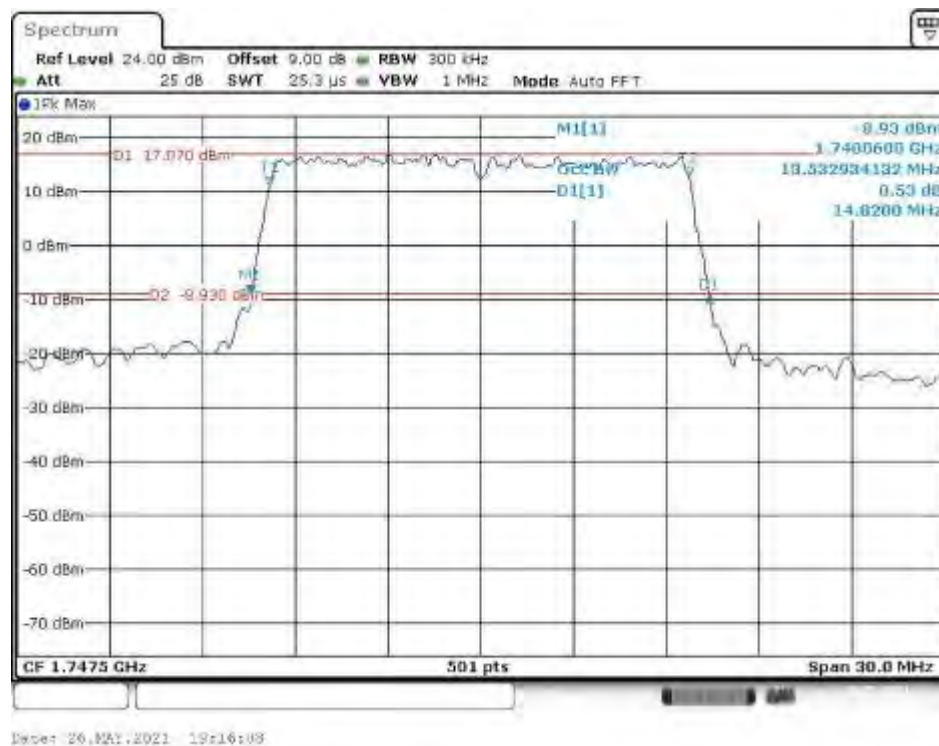
Band 4_15 MHz_Middle_16QAM_RB75#0



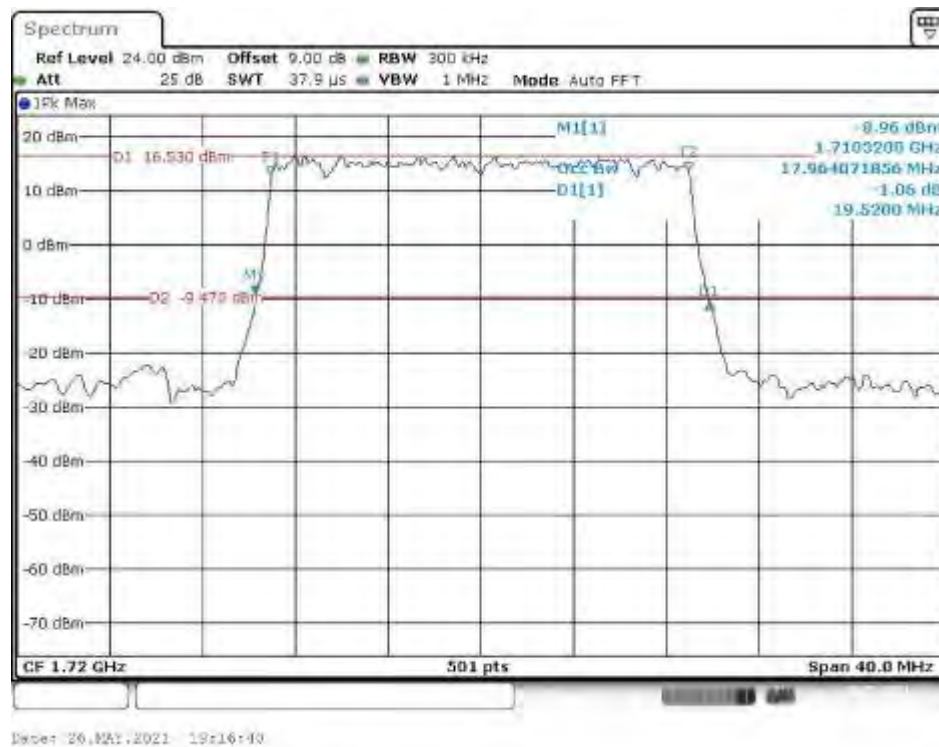
Band 4_15 MHz_High_QPSK_RB75#0



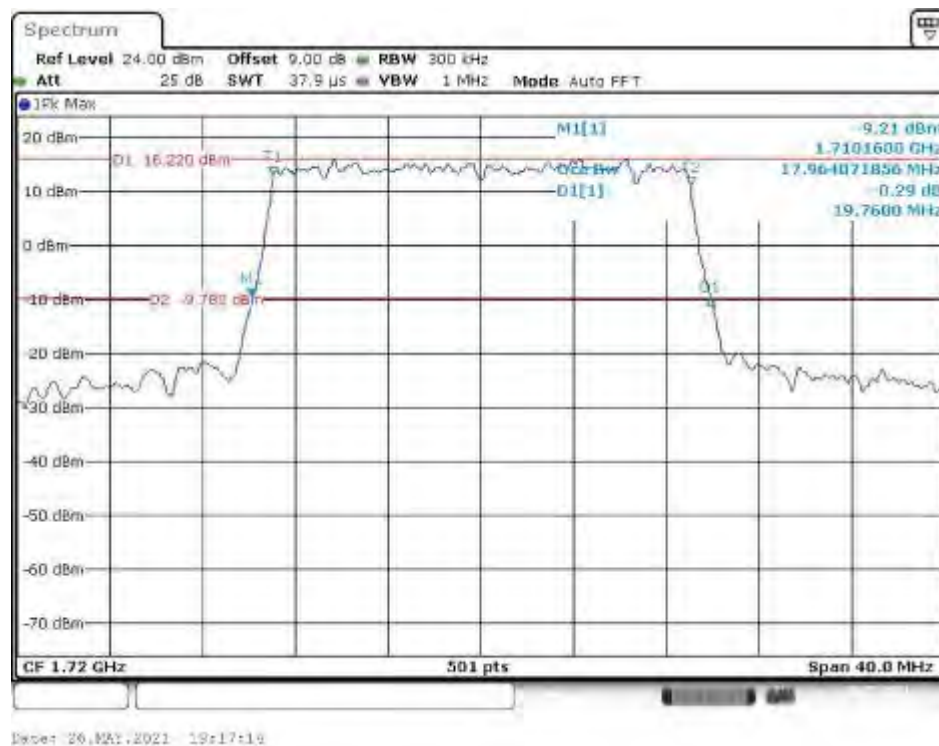
Band 4_15 MHz_High_16QAM_RB75#0



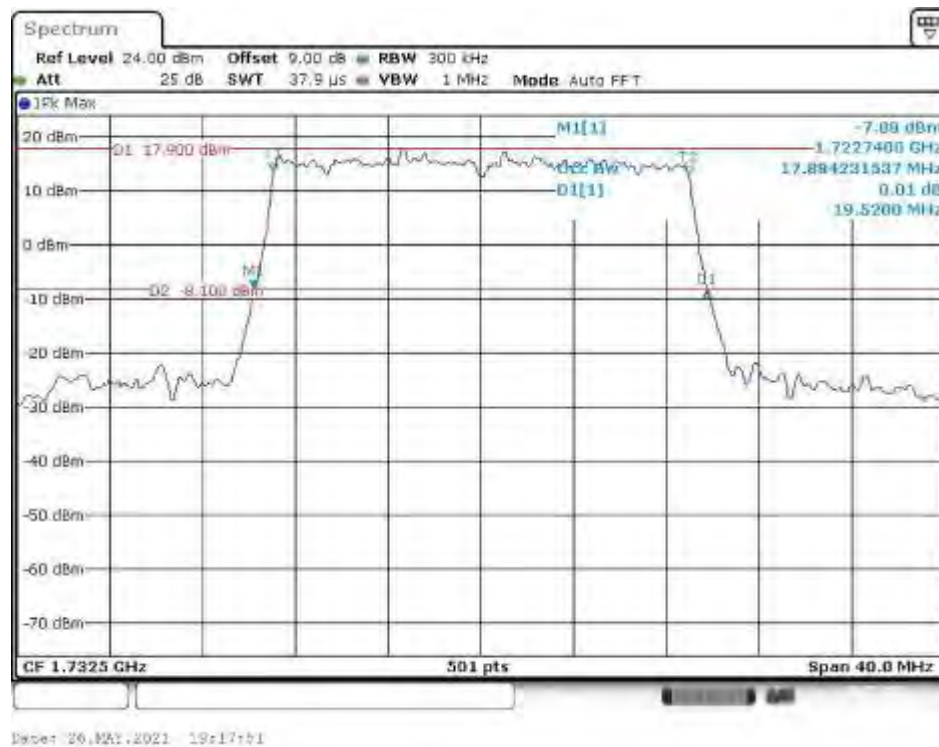
Band 4_20 MHz_Low_QPSK_RB100#0



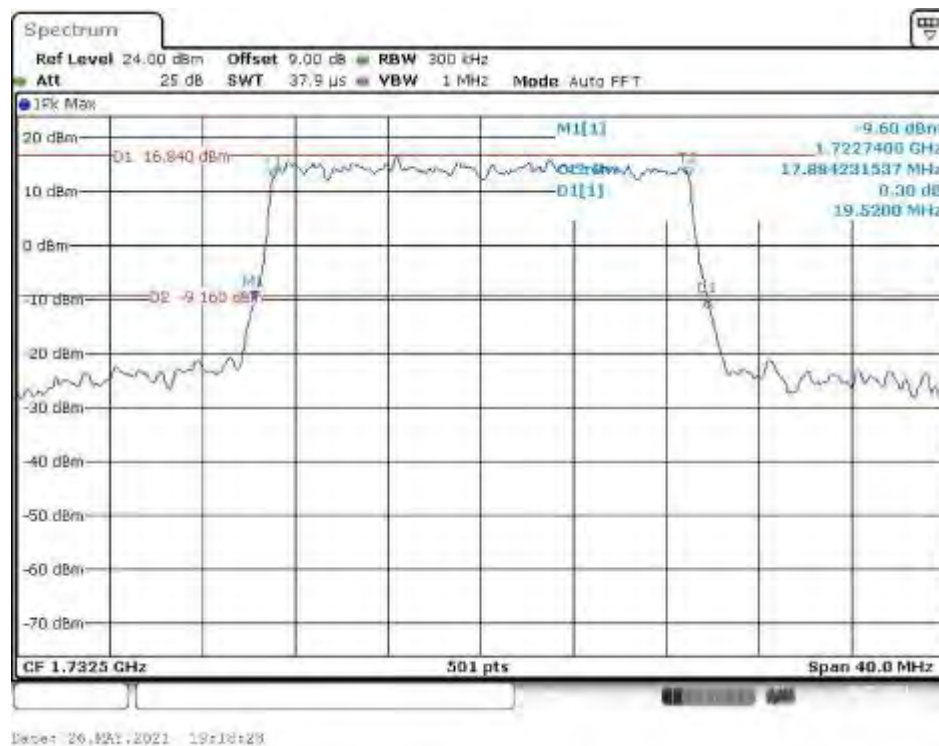
Band 4_20 MHz_Low_16QAM_RB100#0



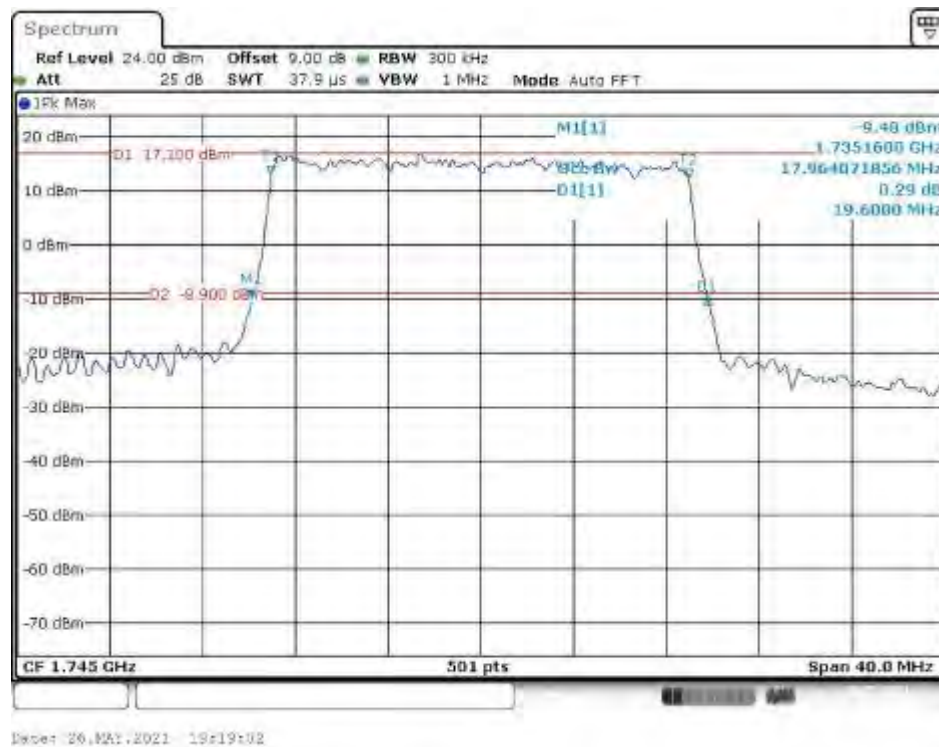
Band 4_20 MHz_Middle_QPSK_RB100#0



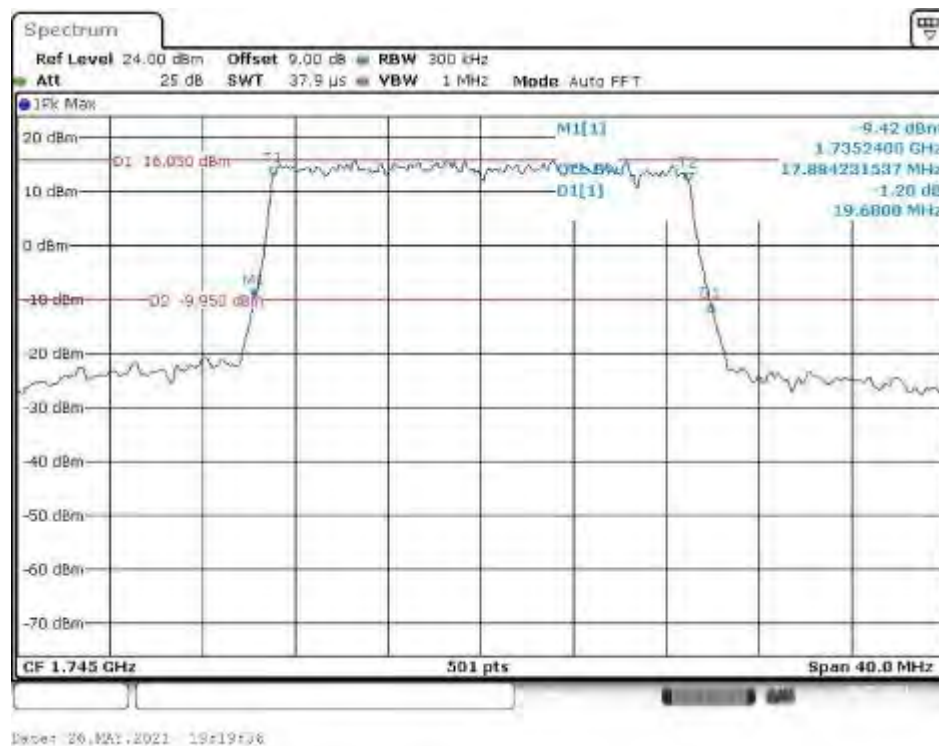
Band 4_20 MHz_Middle_16QAM_RB100#0



Band 4_20 MHz_High_QPSK_RB100#0



Band 4_20 MHz_High_16QAM_RB100#0



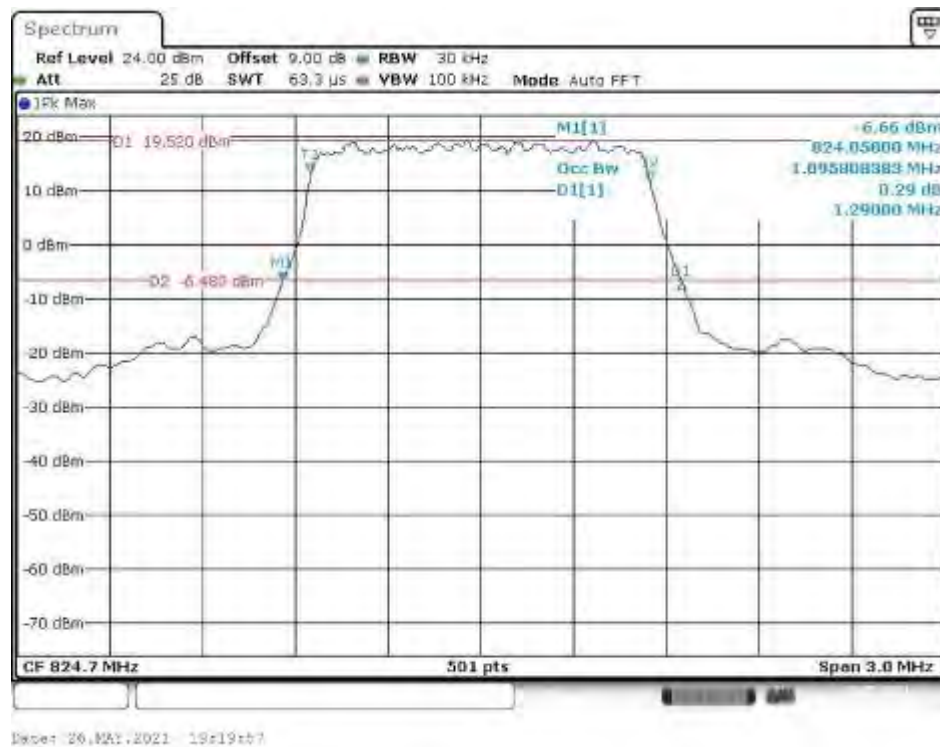
Band 5(Band 26)

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
1.4 MHz	QPSK	1.096	1.290	1.102	1.320	1.102	1.284
	16QAM	1.096	1.320	1.090	1.284	1.096	1.284
3 MHz	QPSK	2.683	2.868	2.683	2.868	2.683	2.880
	16QAM	2.683	2.880	2.682	2.880	2.683	2.868
5 MHz	QPSK	4.531	5.220	4.511	5.140	4.511	5.200
	16QAM	4.531	5.200	4.551	5.200	4.551	5.260
10 MHz	QPSK	8.982	9.880	8.942	9.840	8.982	9.840
	16QAM	8.942	9.840	8.942	9.880	8.982	9.920

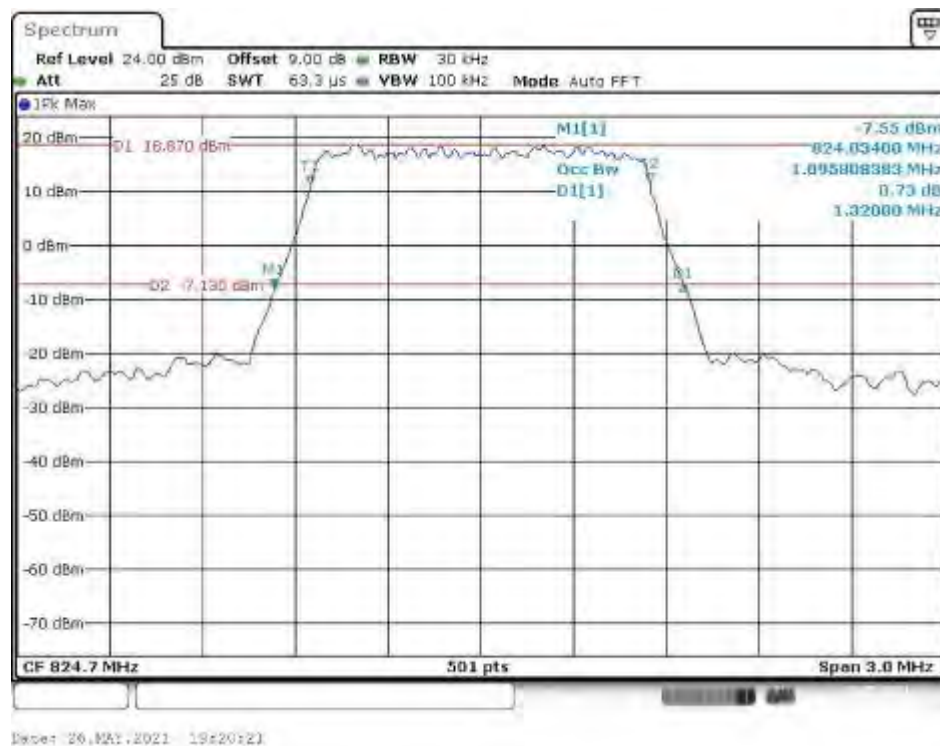
Band 26 15MHz

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
15 MHz	QPSK	13.560	14.760	13.500	14.700	13.500	14.820
	16QAM	13.500	14.760	13.500	14.820	13.500	14.700

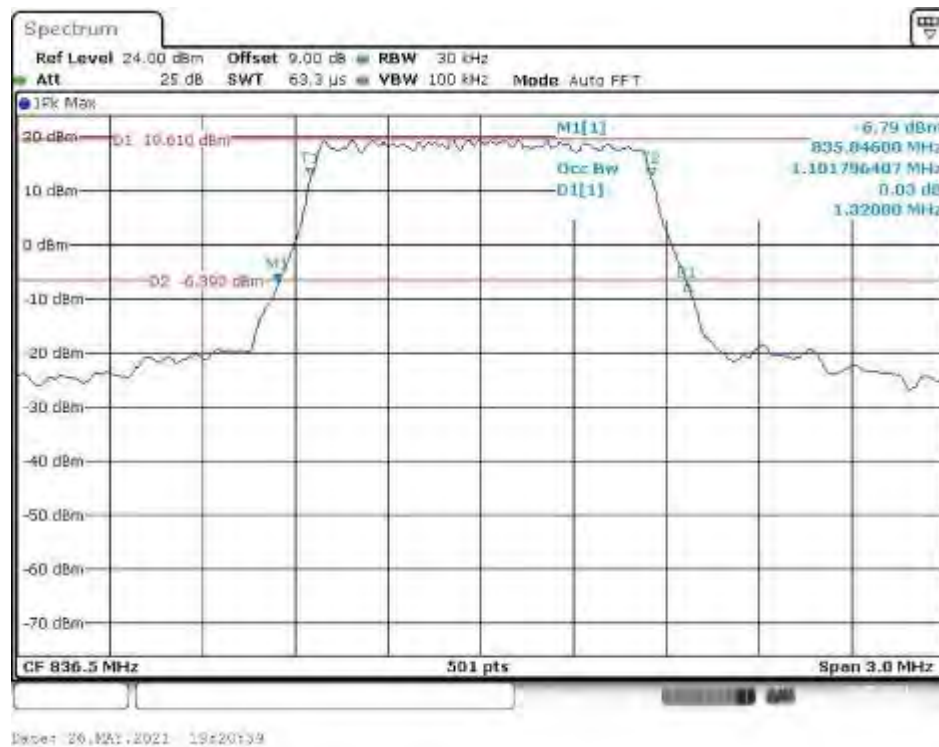
Band 5(Band 26)_1.4 MHz_Low_QPSK_RB6#0



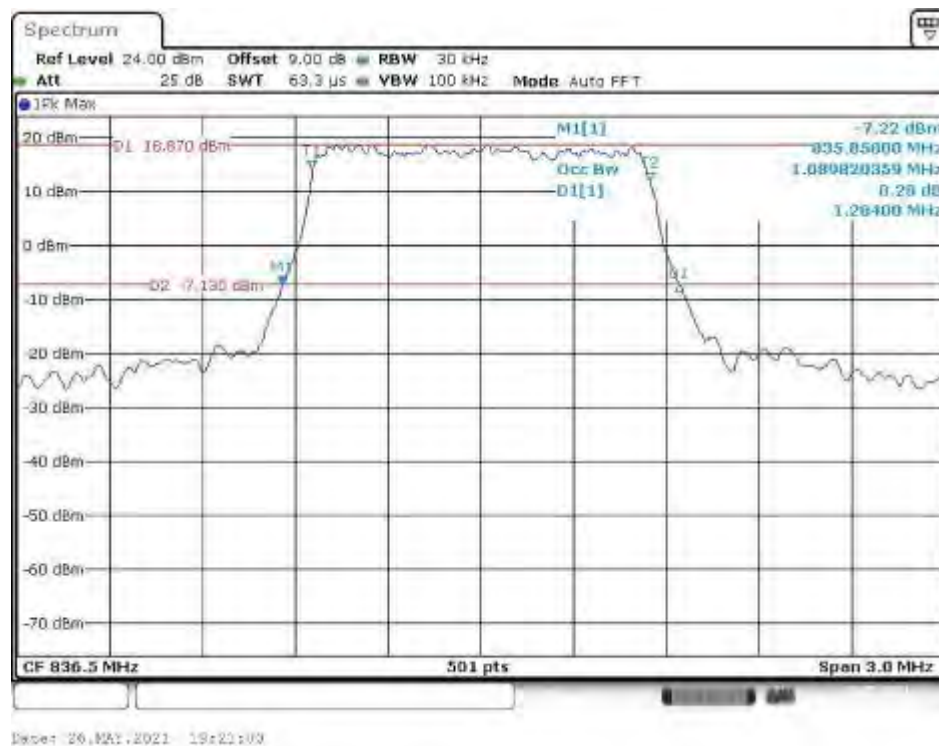
Band 5(Band 26)_1.4 MHz_Low_16QAM_RB6#0



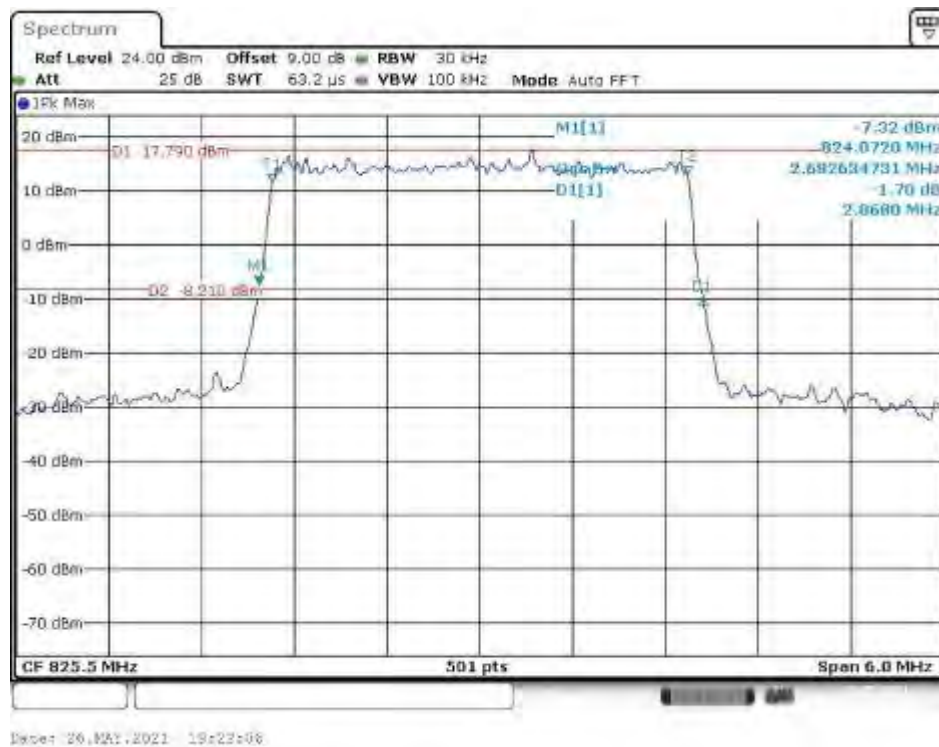
Band 5(Band 26) 1.4 MHz_Middle_QPSK_RB6#0



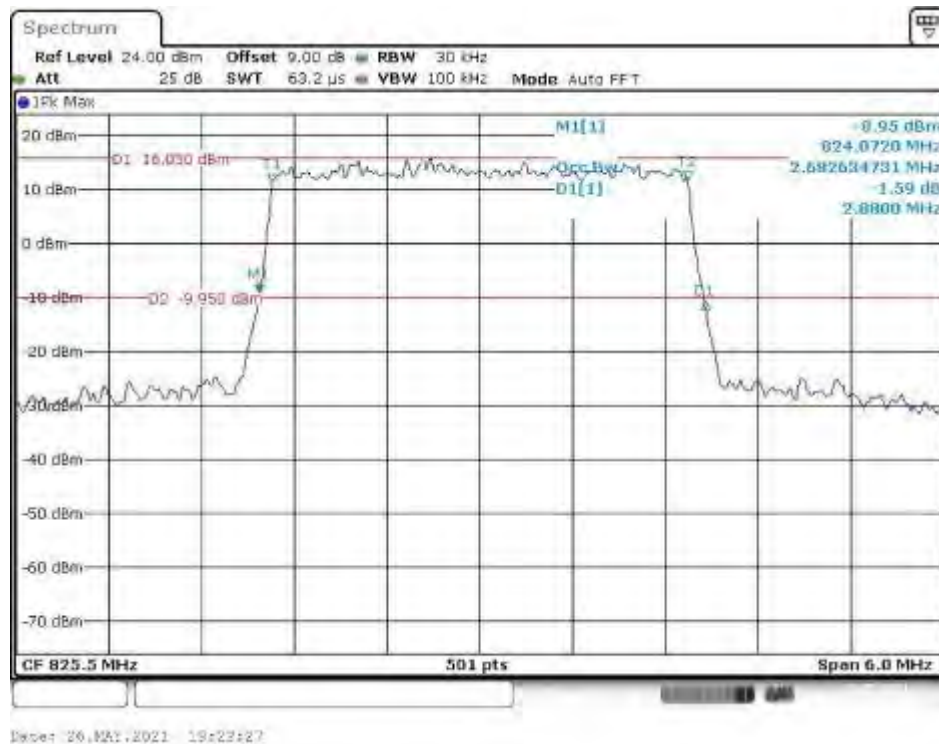
Band 5(Band 26)_1.4 MHz_Middle_16QAM_RB6#0



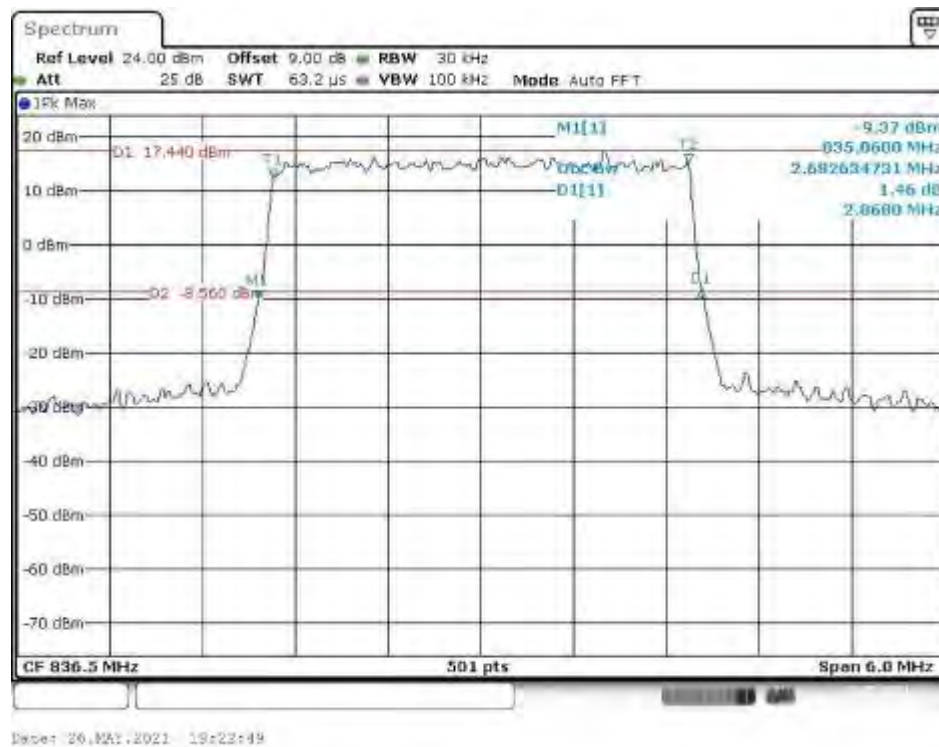
Band 5(Band 26)_3 MHz_Low_QPSK_RB15#0



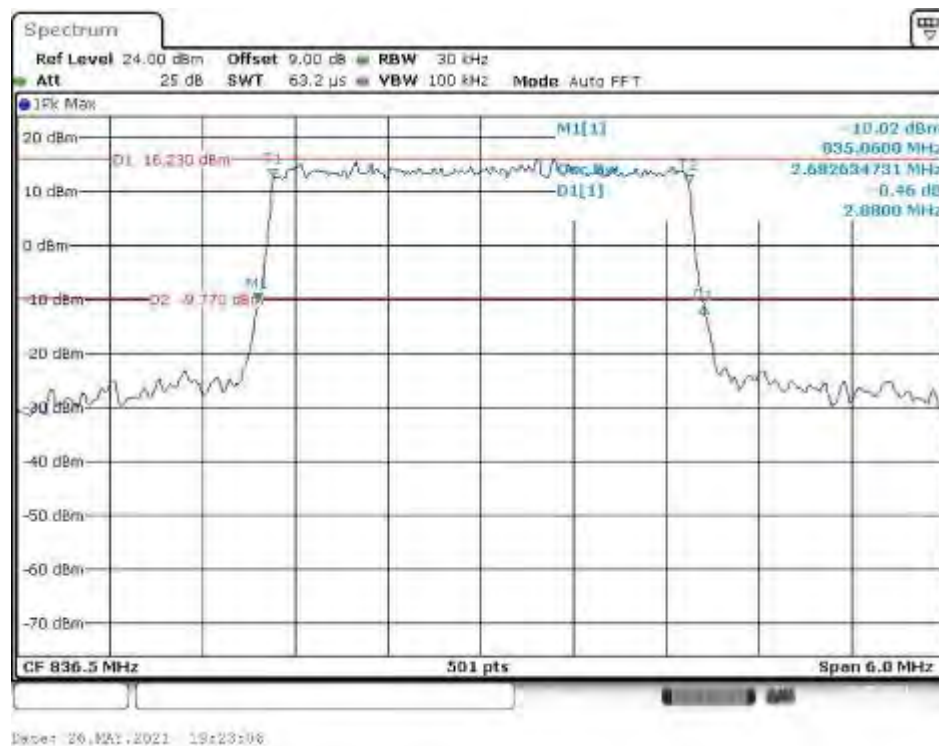
Band 5(Band 26)_3 MHz_Low_16QAM_RB15#0



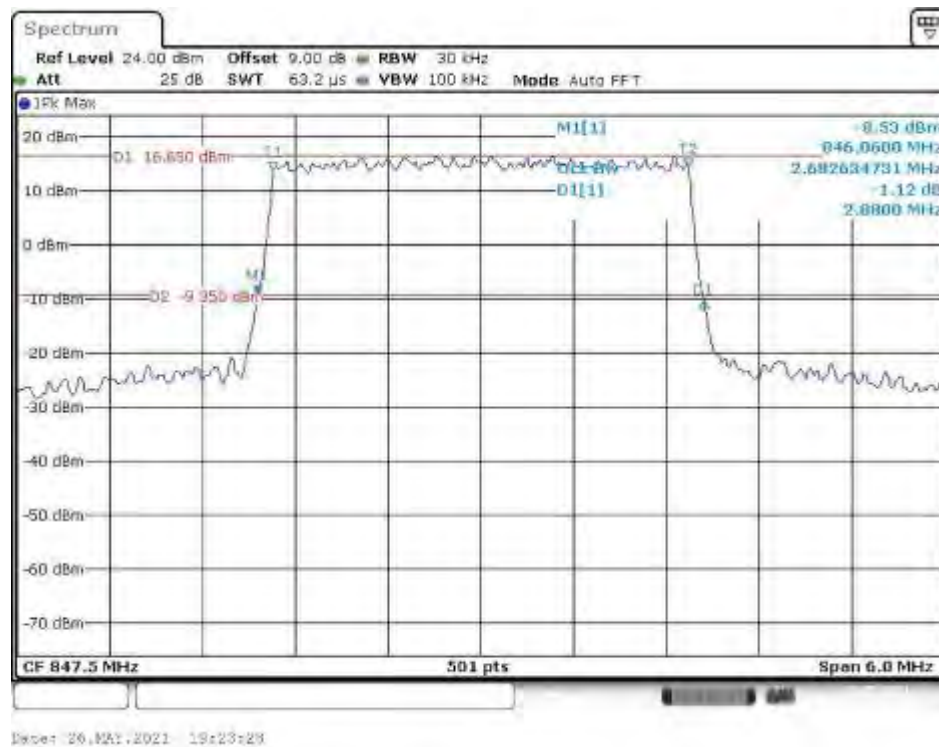
Band 5(Band 26)_3 MHz_Middle_QPSK_RB15#0



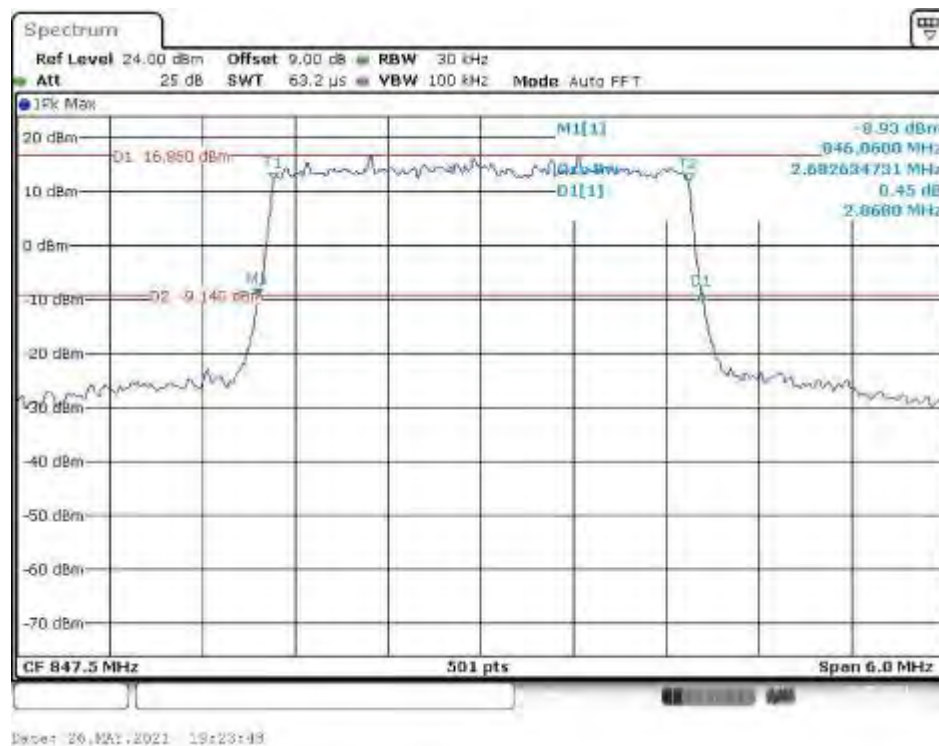
Band 5(Band 26)_3 MHz_Middle_16QAM_RB15#0



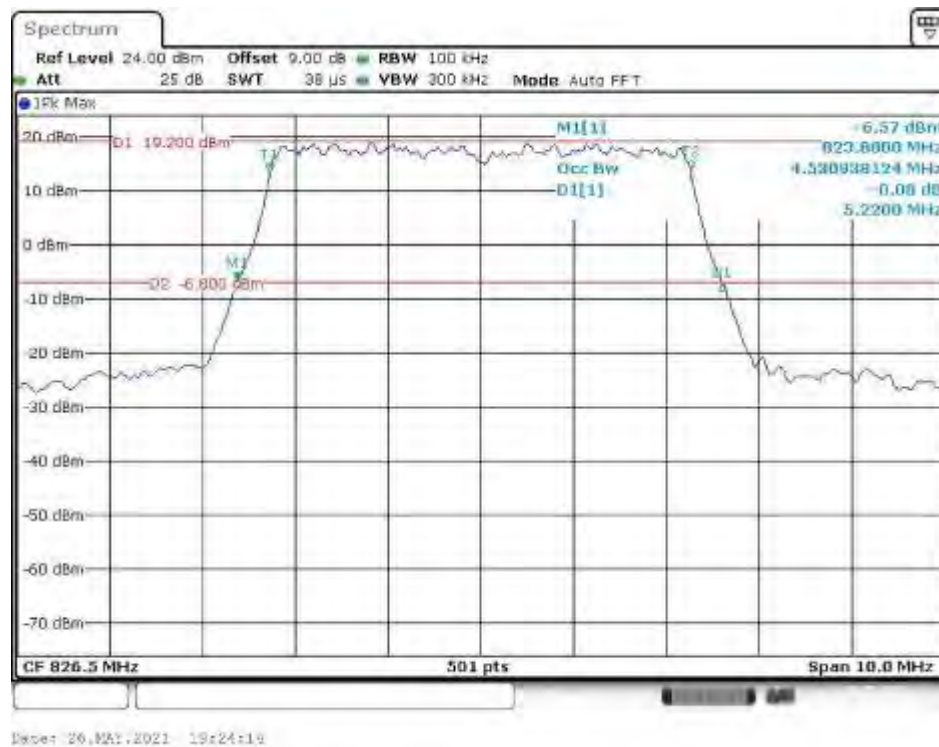
Band 5(Band 26)_3 MHz_High_QPSK_RB15#0



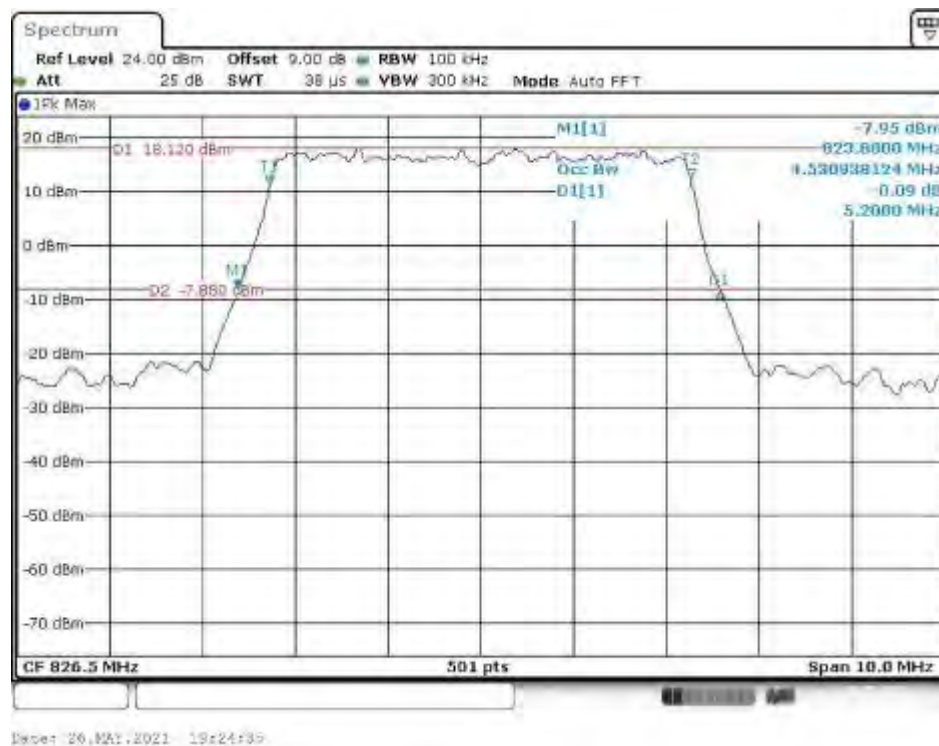
Band 5(Band 26)_3 MHz_High_16QAM_RB15#0



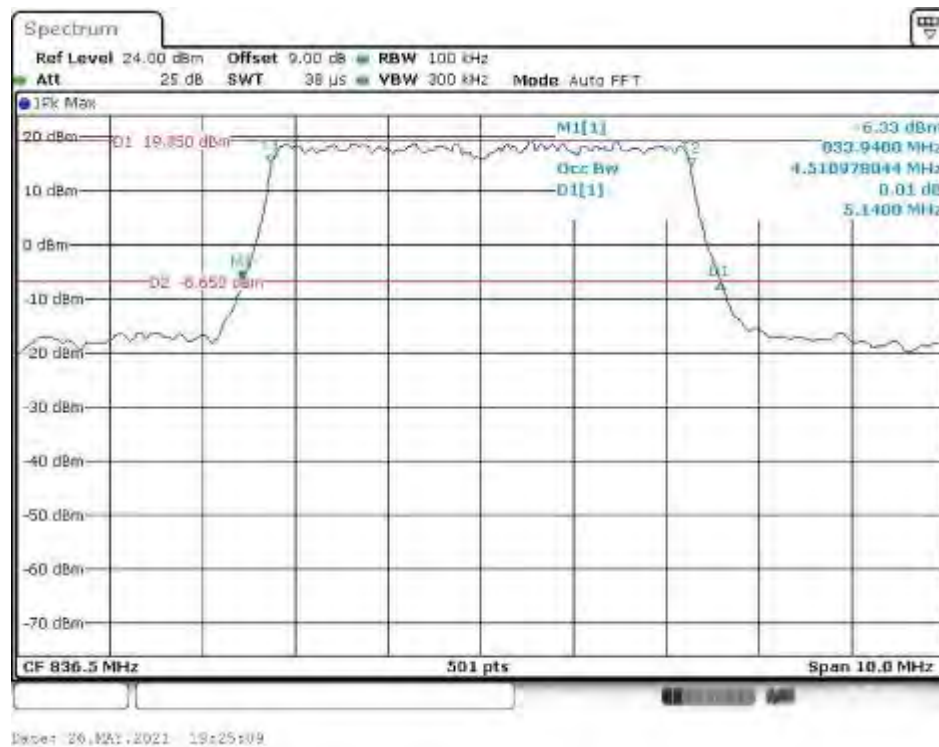
Band 5(Band 26)_5 MHz_Low_QPSK_RB25#0



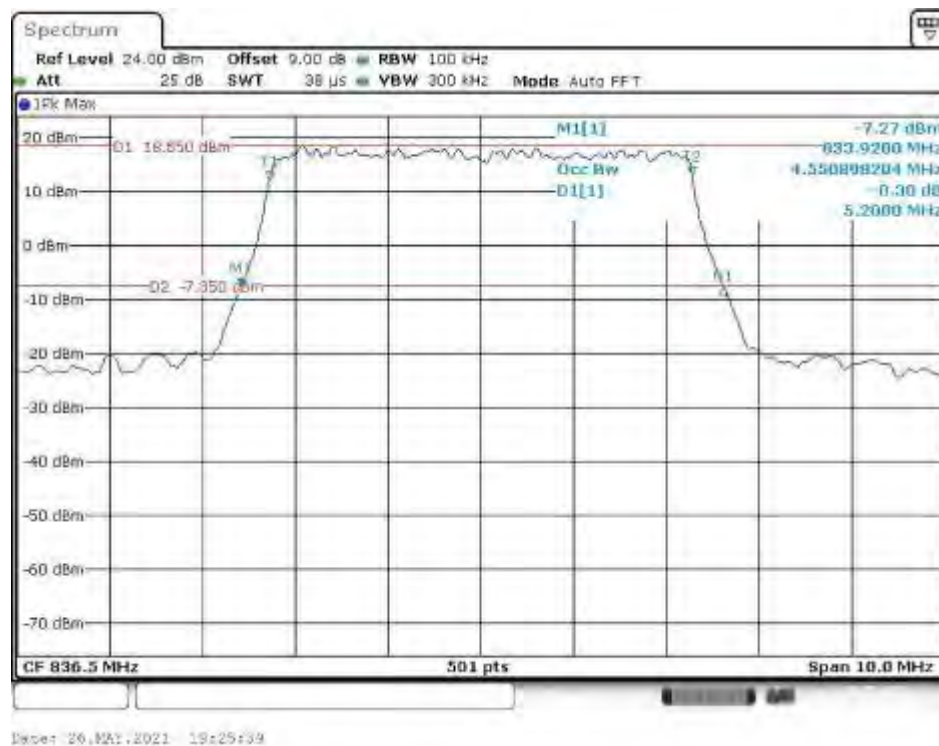
Band 5(Band 26)_5 MHz_Low_16QAM_RB25#0



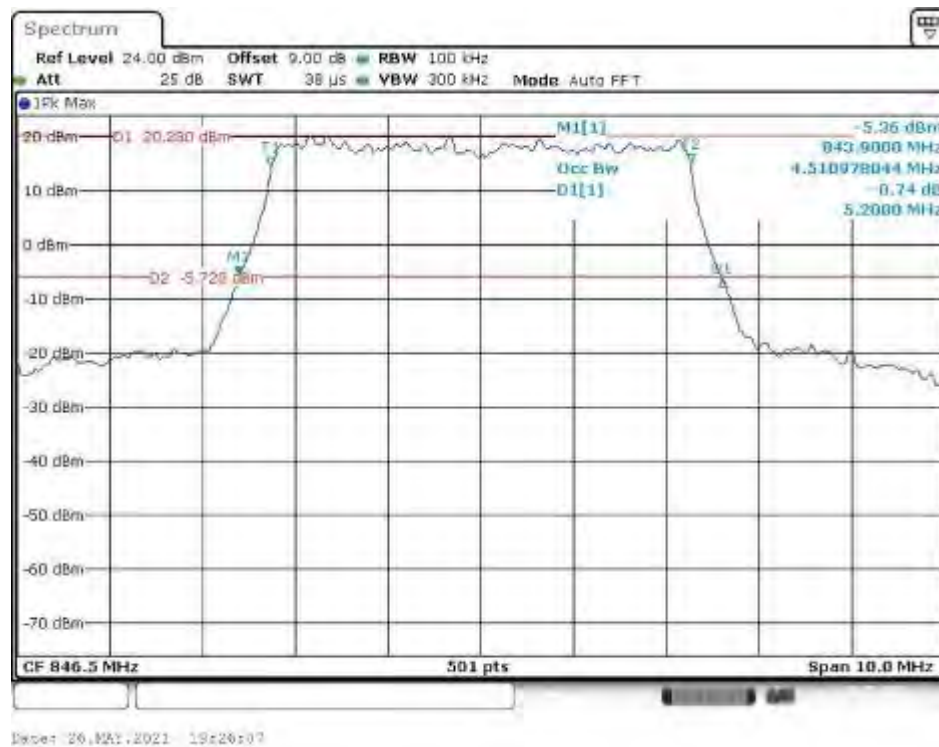
Band 5(Band 26)_5 MHz_Middle_QPSK_RB25#0



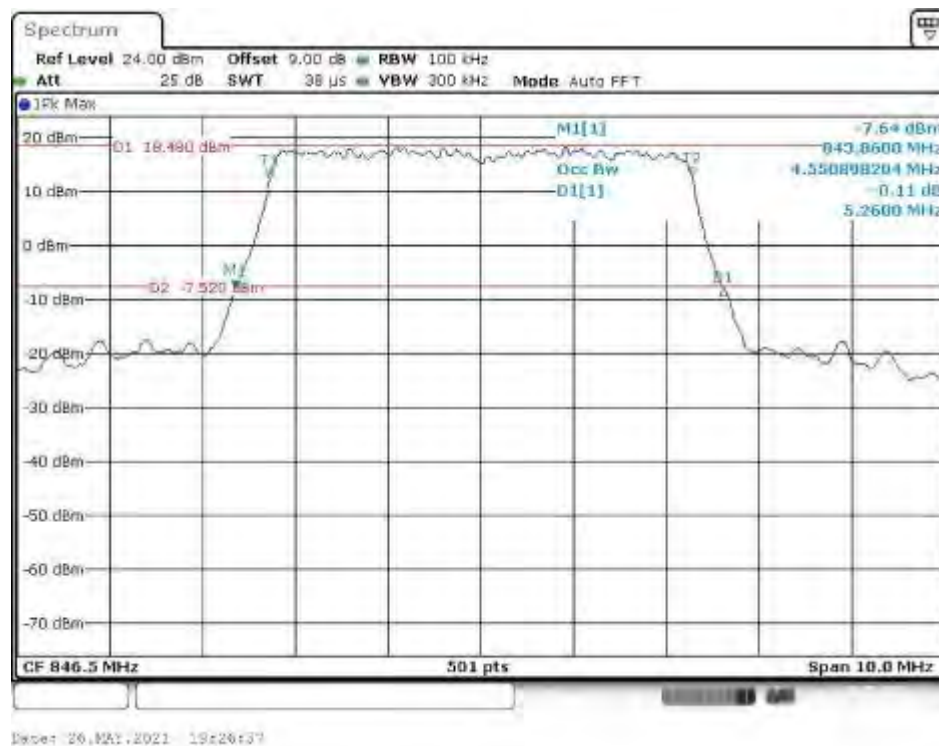
Band 5(Band 26)_5 MHz_Middle_16QAM_RB25#0



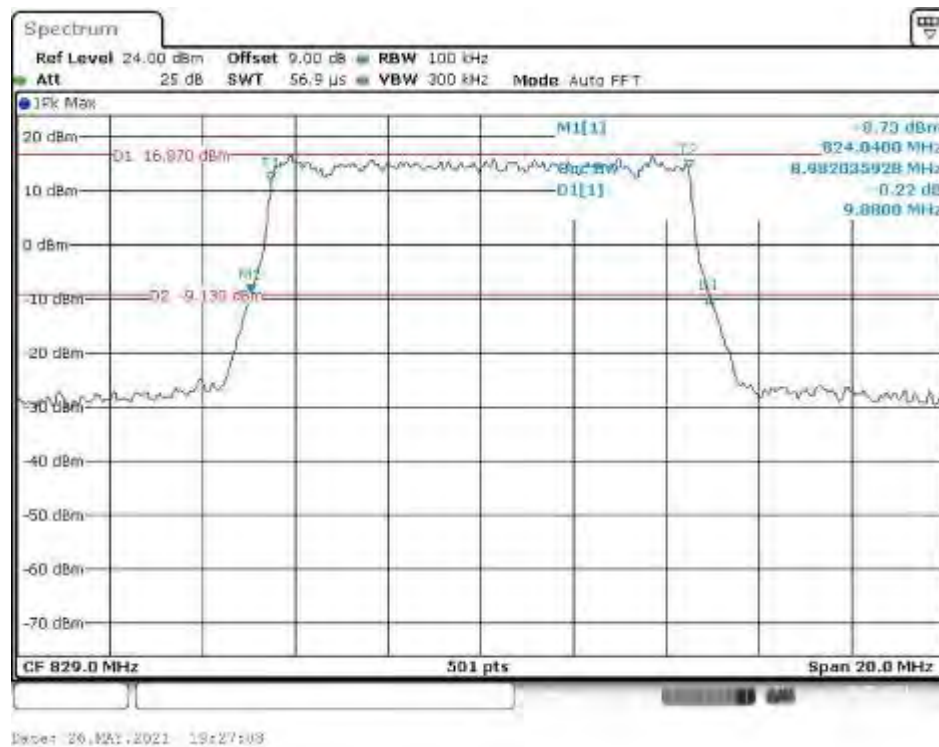
Band 5(Band 26)_5 MHz_High_QPSK_RB25#0



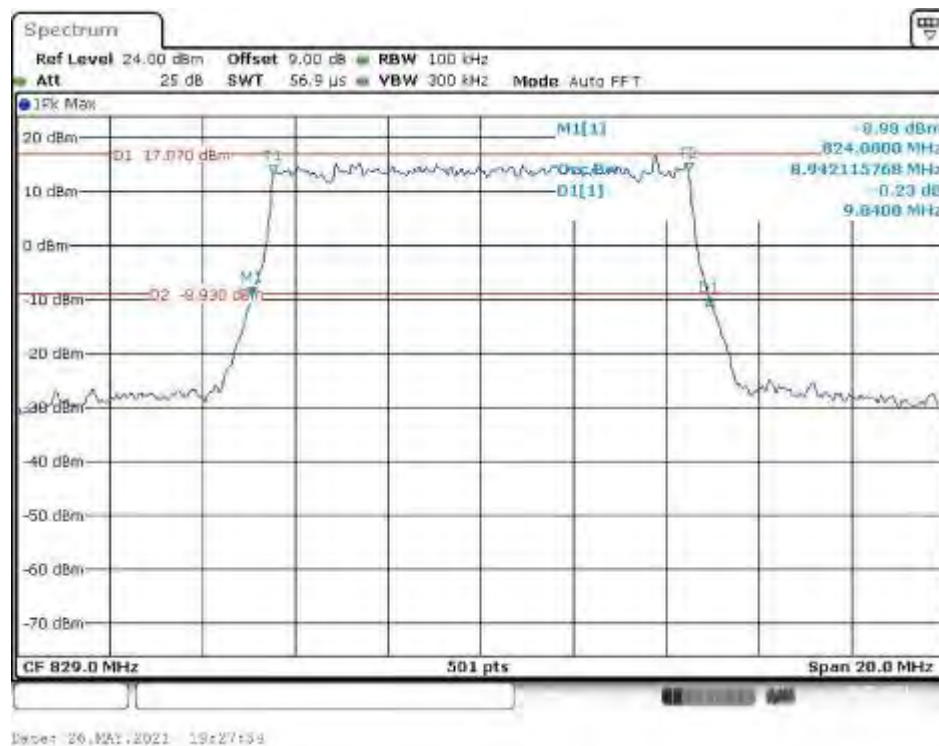
Band 5(Band 26)_5 MHz_High_16QAM_RB25#0



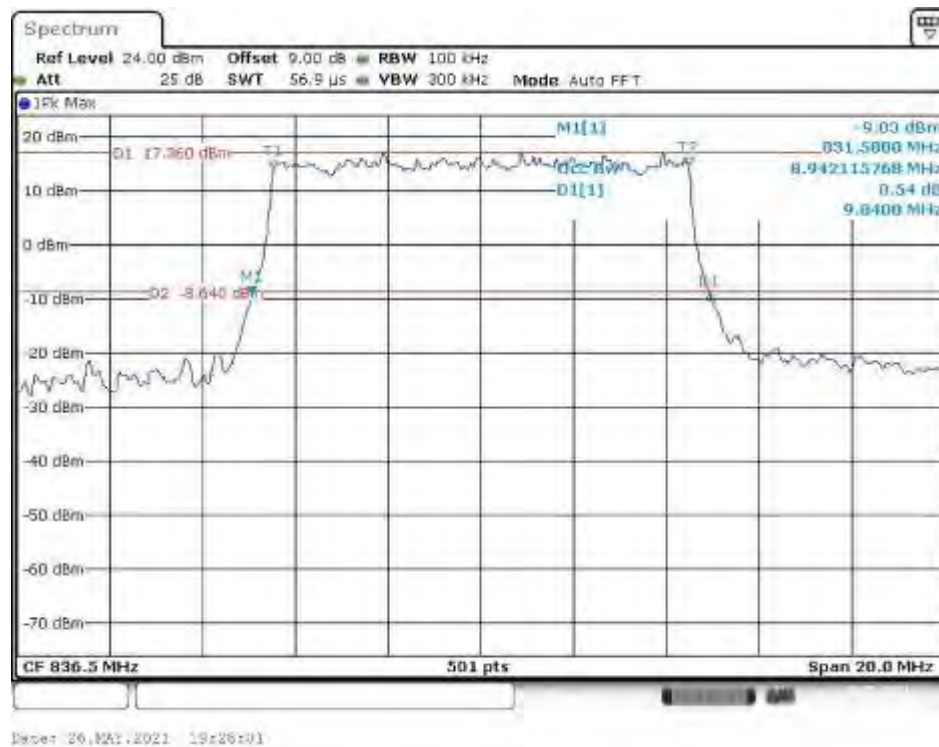
Band 5(Band 26)_10 MHz_Low_QPSK_RB50#0



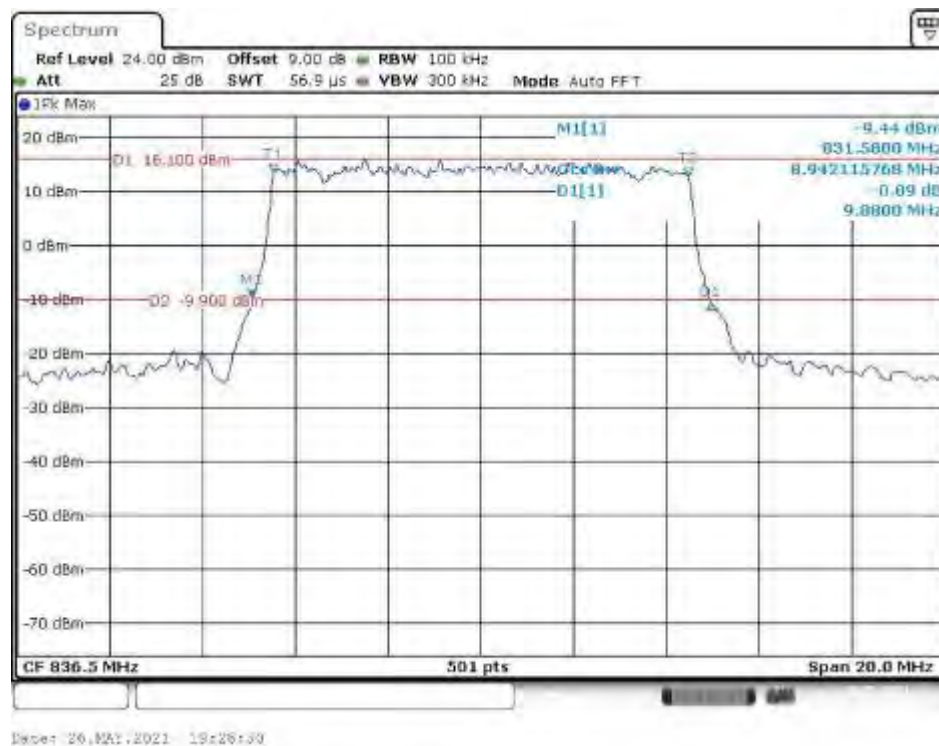
Band 5(Band 26)_10 MHz_Low_16QAM_RB50#0



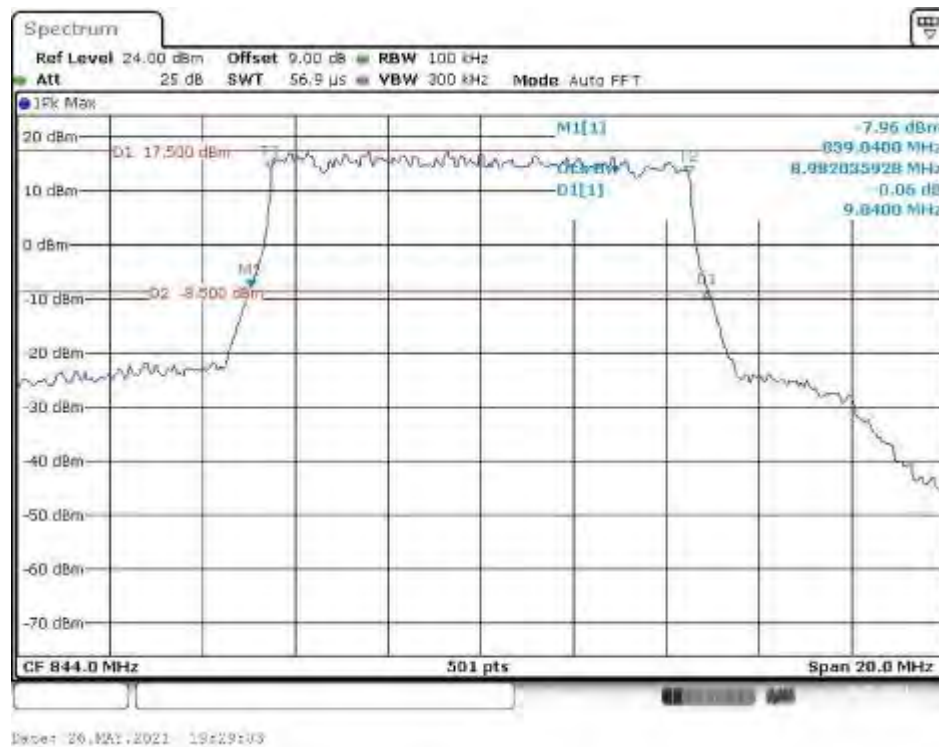
Band 5(Band 26)_10 MHz_Middle_QPSK_RB50#0



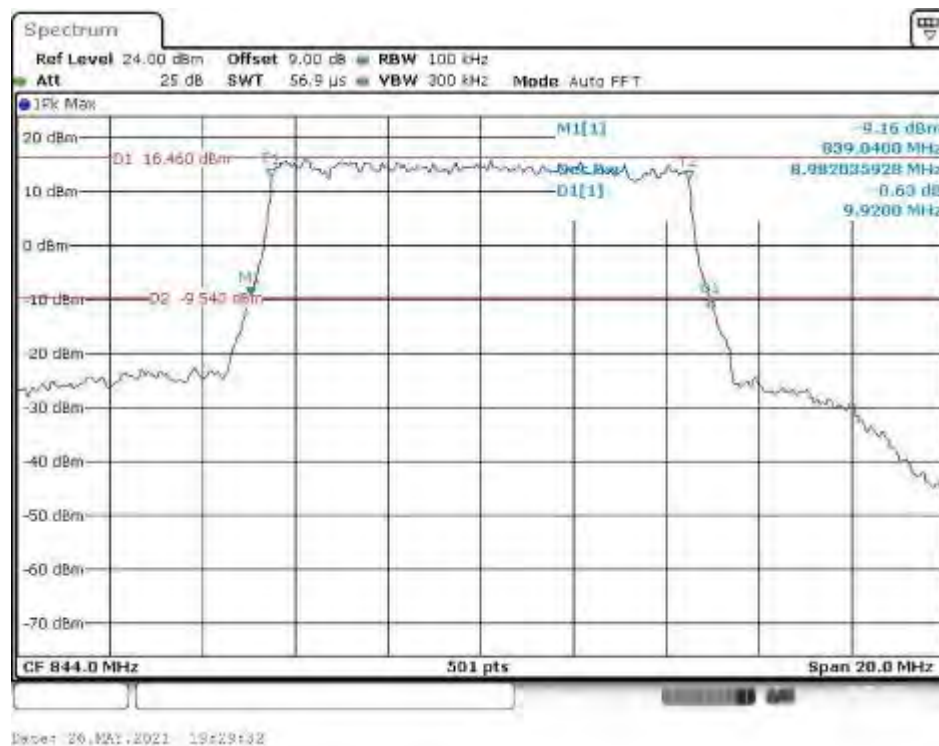
Band 5(Band 26)_10 MHz_Middle_16QAM_RB50#0



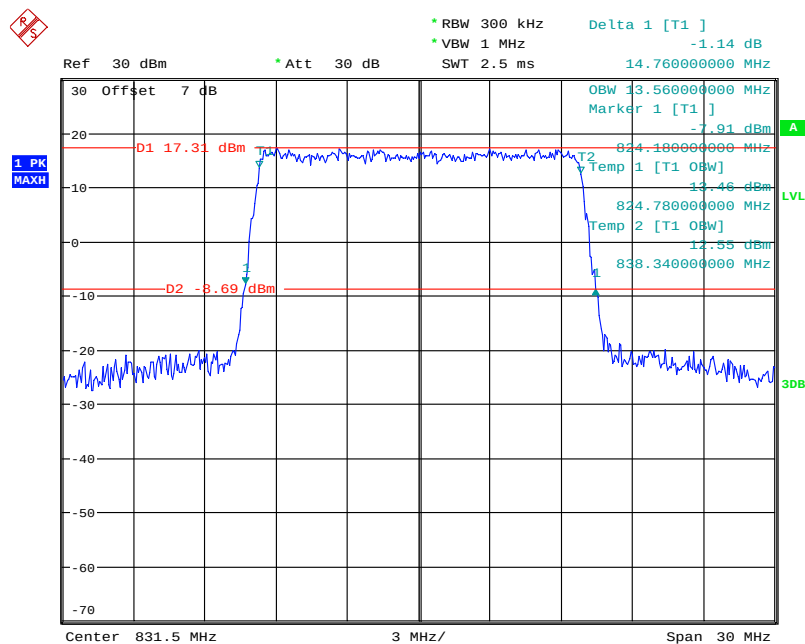
Band 5(Band 26)_10 MHz_High_QPSK_RB50#0



Band 5(Band 26)_10 MHz_High_16QAM_RB50#0

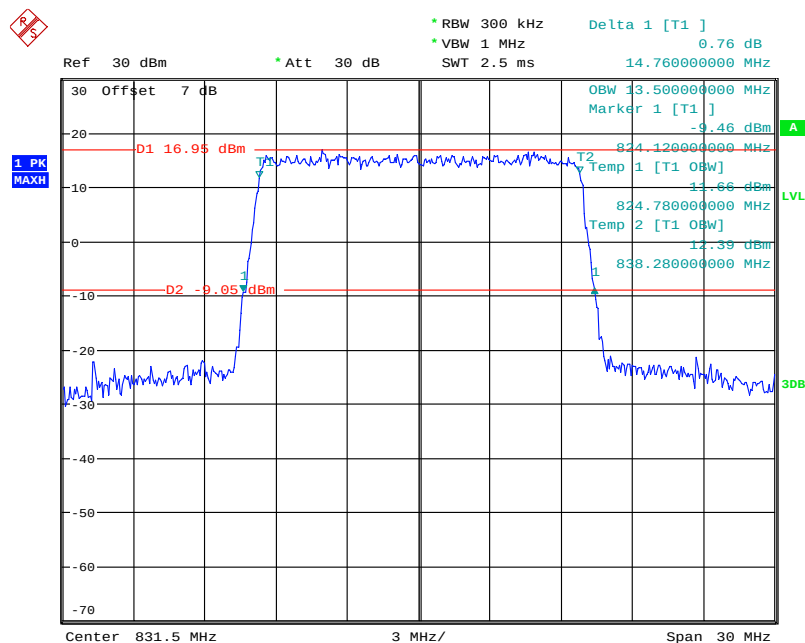


Band 26_15 MHz_Low_QPSK_RB75#0



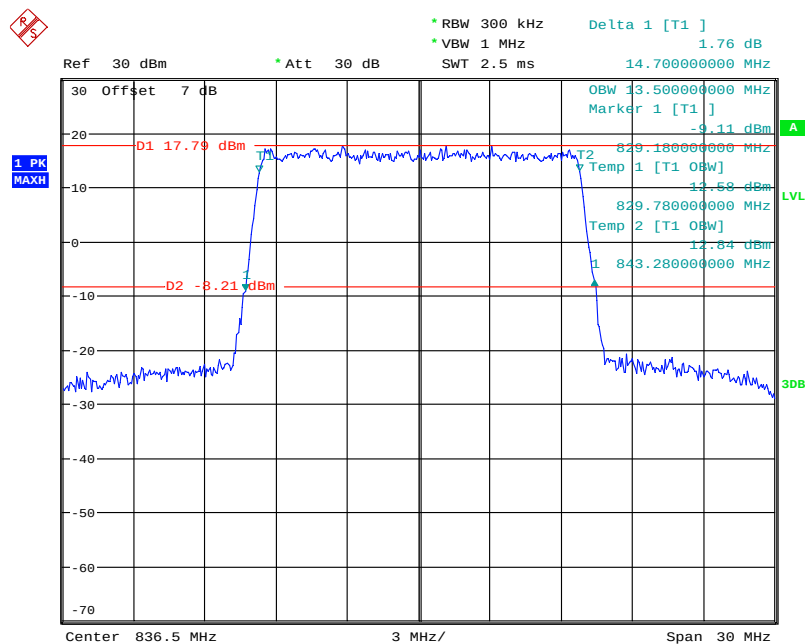
Date: 24.JUN.2021 16:04:05

Band 26_15 MHz_Low_16QAM_RB75#0



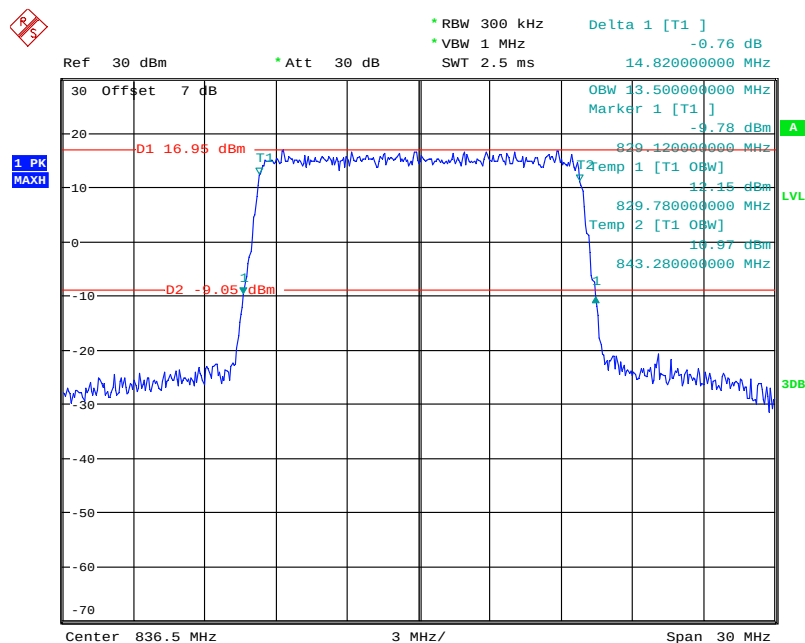
Date: 24.JUN.2021 16:04:33

Band 26_15 MHz_Middle_QPSK_RB75#0



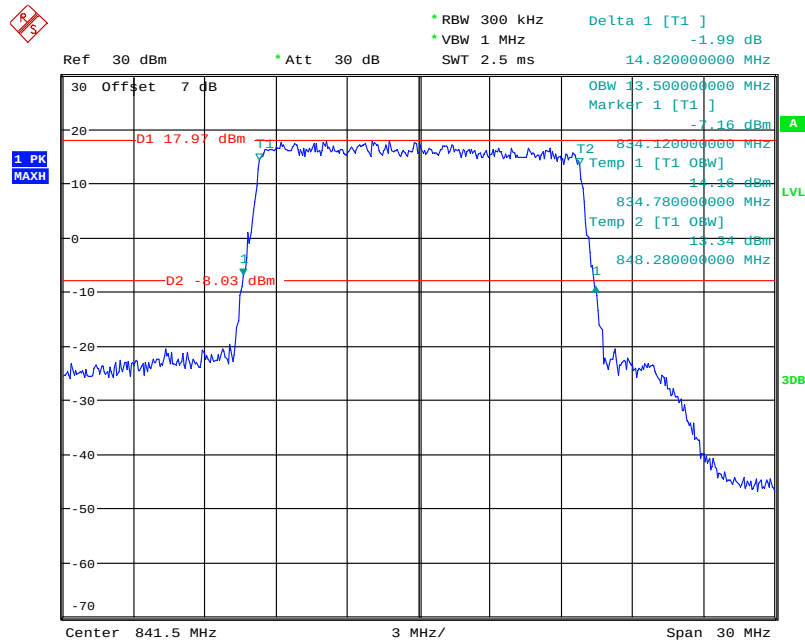
Date: 24.JUN.2021 16:05:03

Band 26_15 MHz_Middle_16QAM_RB75#0



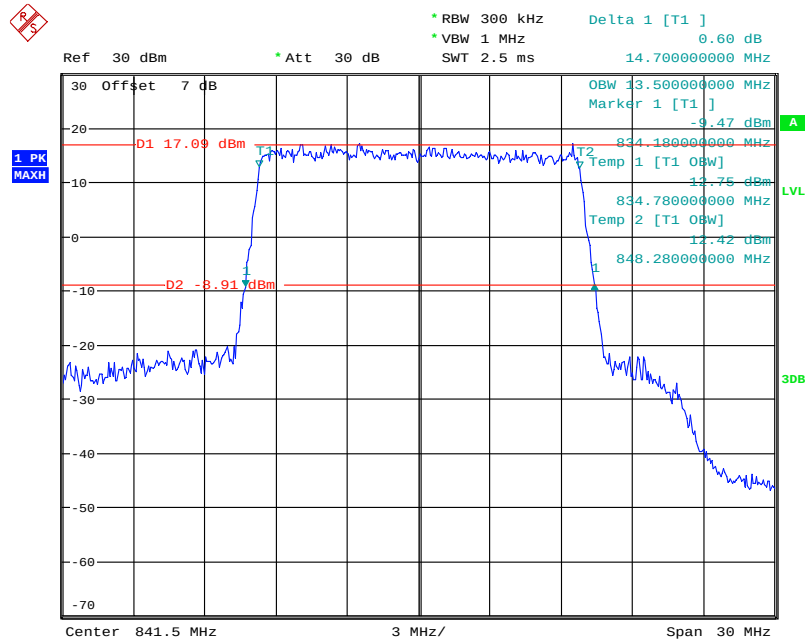
Date: 24.JUN.2021 16:05:32

Band 26_15 MHz_High_QPSK_RB75#0



Date: 24.JUN.2021 16:06:02

Band 26_15 MHz_High_16QAM_RB75#0

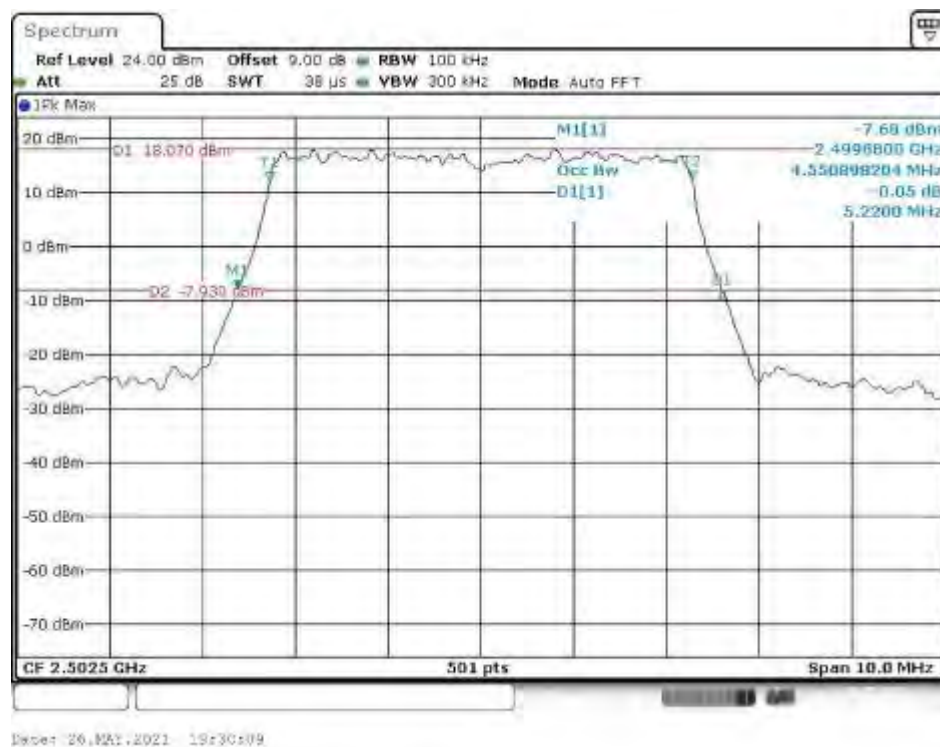


Date: 24.JUN.2021 16:06:30

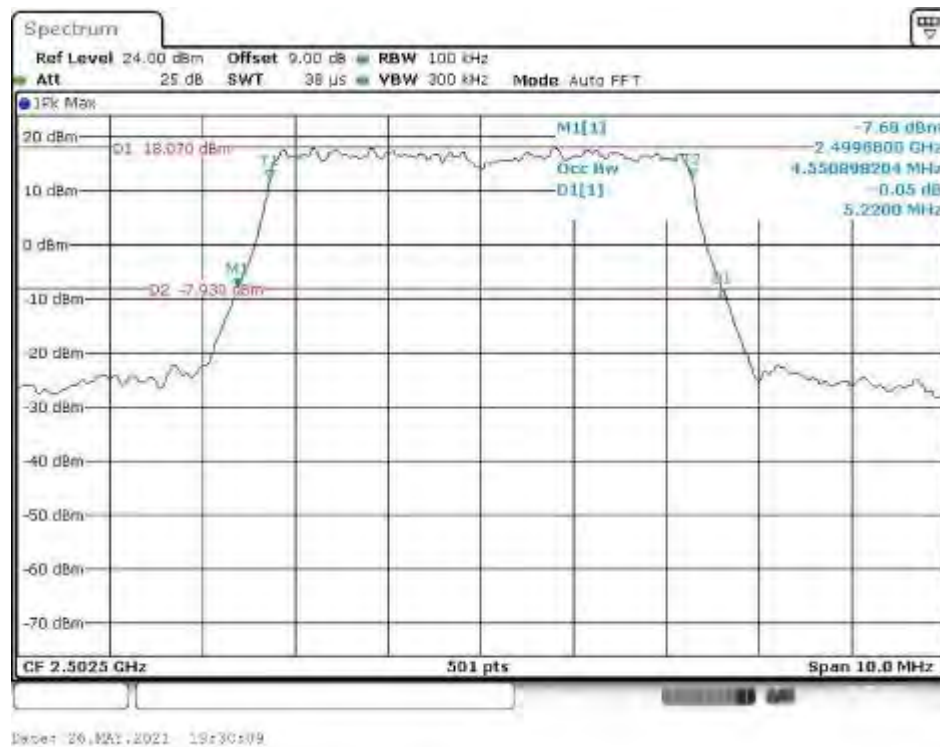
Band 7

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
5 MHz	QPSK	4.551	5.220	4.531	5.200	4.511	5.200
	16QAM	4.551	5.020	4.551	5.200	4.551	5.200
10 MHz	QPSK	8.982	10.000	8.942	9.800	8.982	9.920
	16QAM	8.942	9.720	8.942	9.840	8.982	9.920
15 MHz	QPSK	13.533	14.820	13.473	14.820	13.533	14.820
	16QAM	13.533	14.760	13.533	14.760	13.533	14.820
20 MHz	QPSK	18.044	19.520	17.884	19.520	17.964	19.760
	16QAM	17.964	19.680	17.964	19.680	17.964	19.760

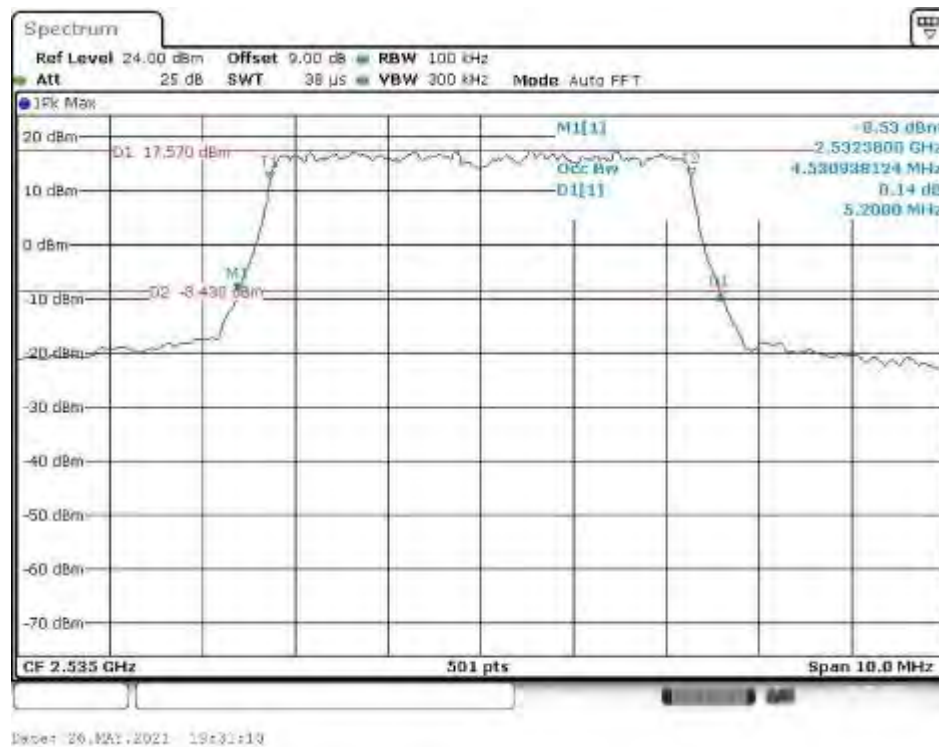
Band 7_5 MHz_Low_QPSK_RB25#0



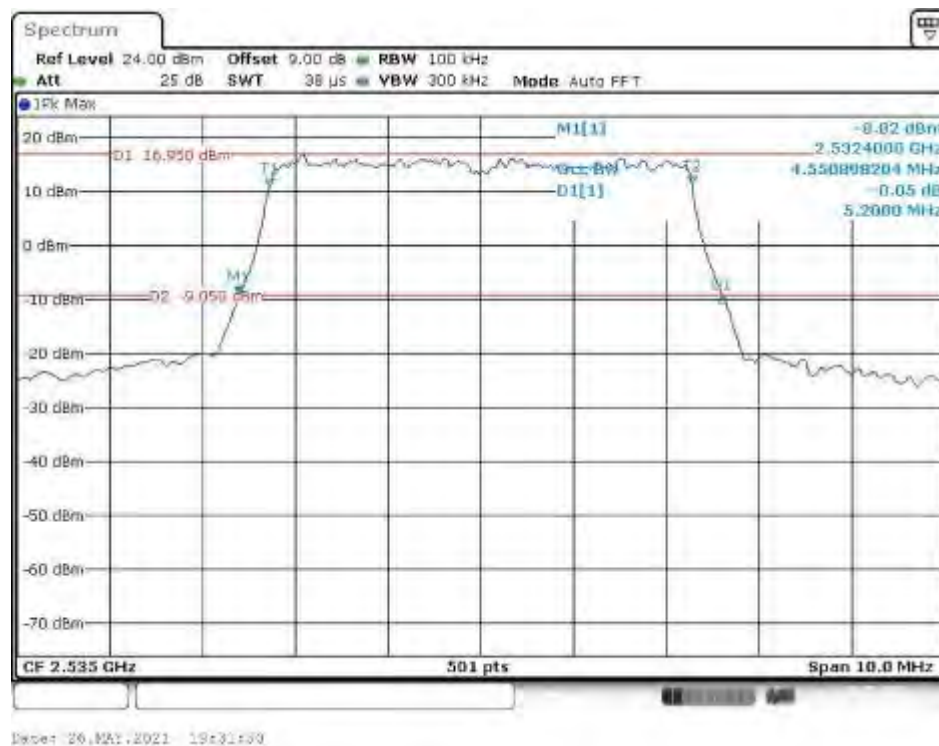
Band 7_5 MHz_Low_16QAM_RB25#0



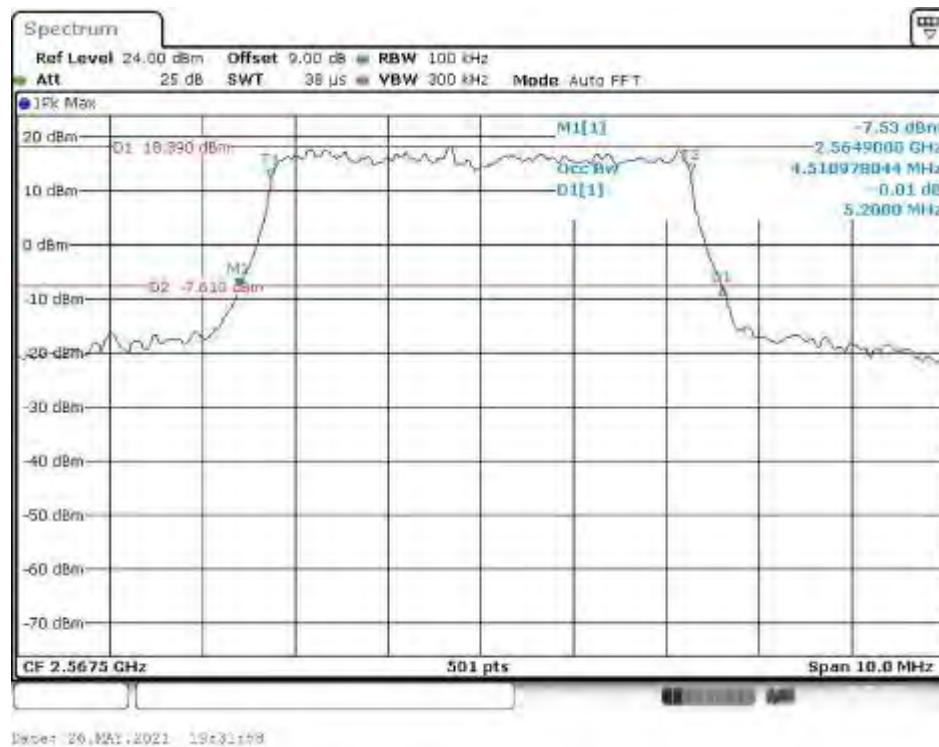
Band 7_5 MHz_Middle_QPSK_RB25#0



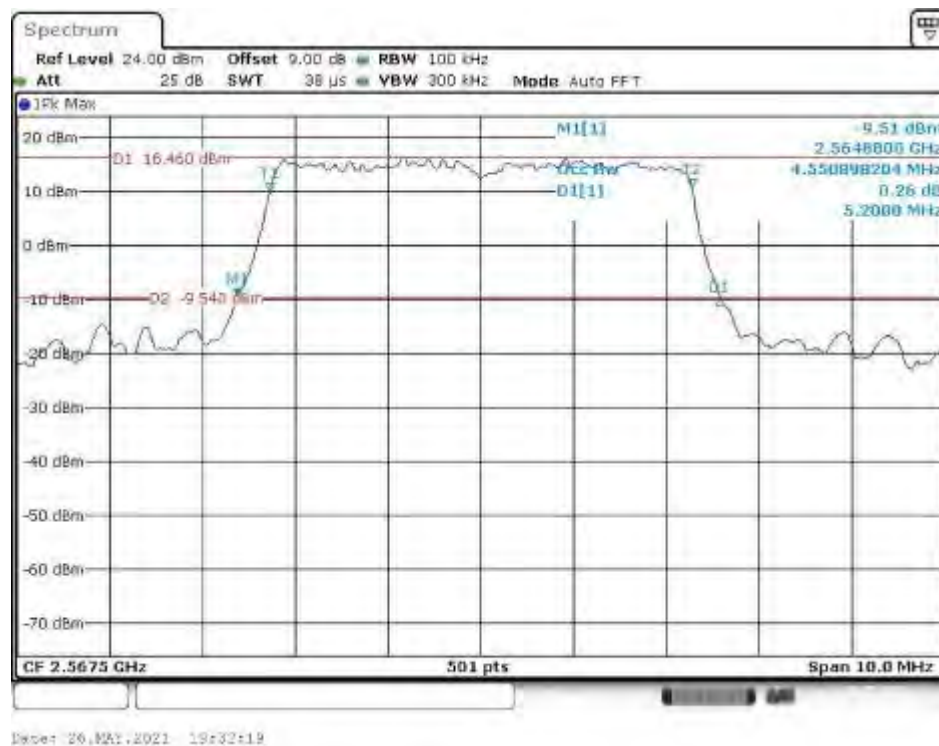
Band 7_5 MHz_Middle_16QAM_RB25#0



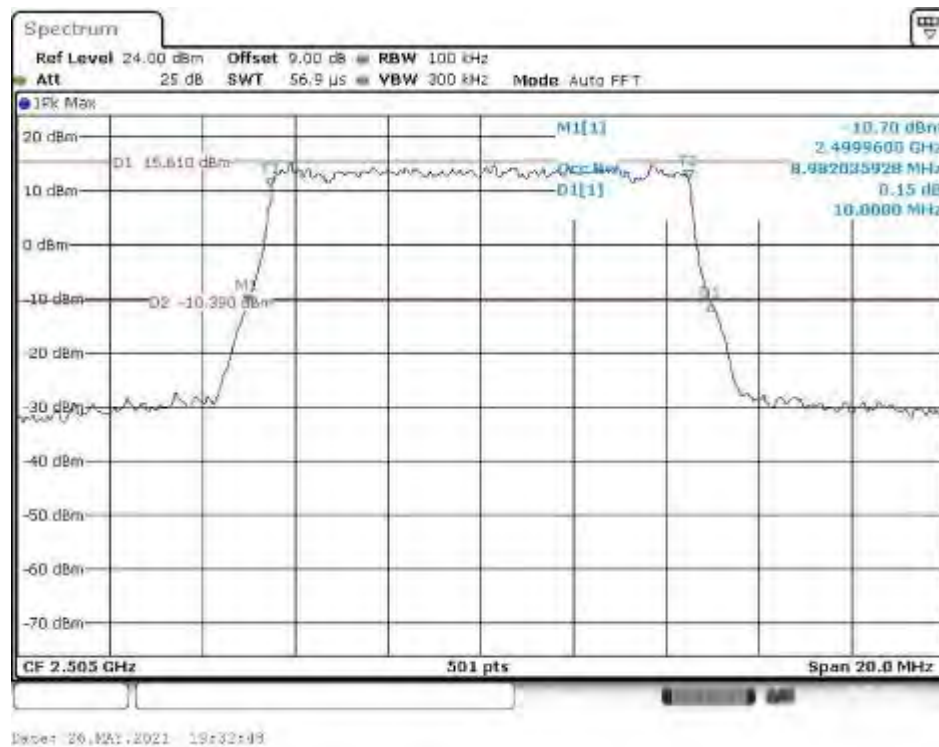
Band 7_5 MHz_High_QPSK_RB25#0



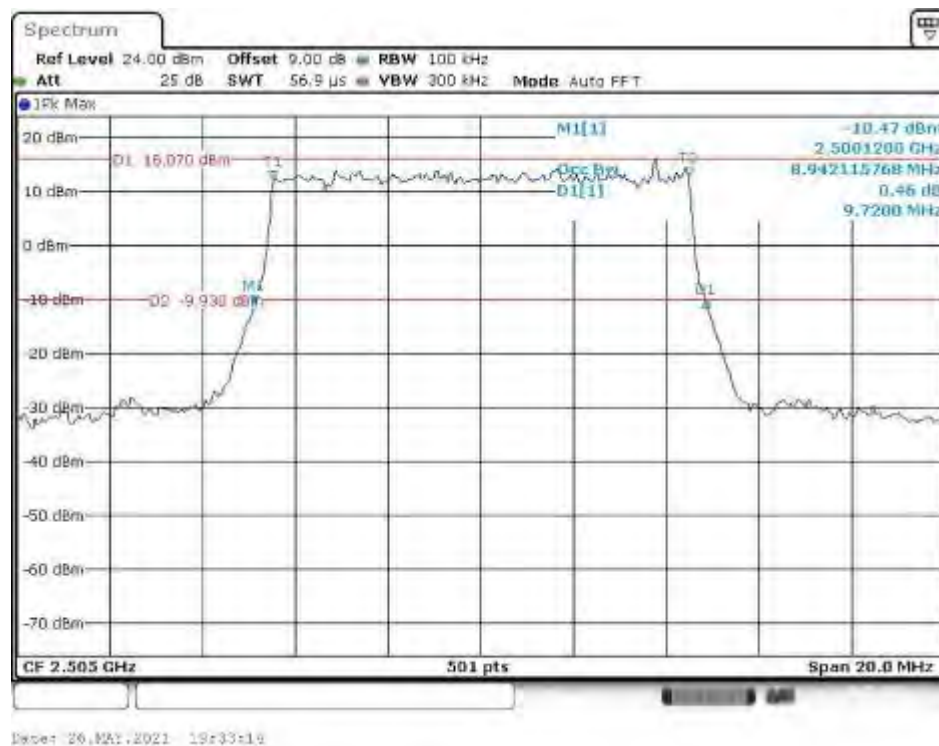
Band 7_5 MHz_High_16QAM_RB25#0



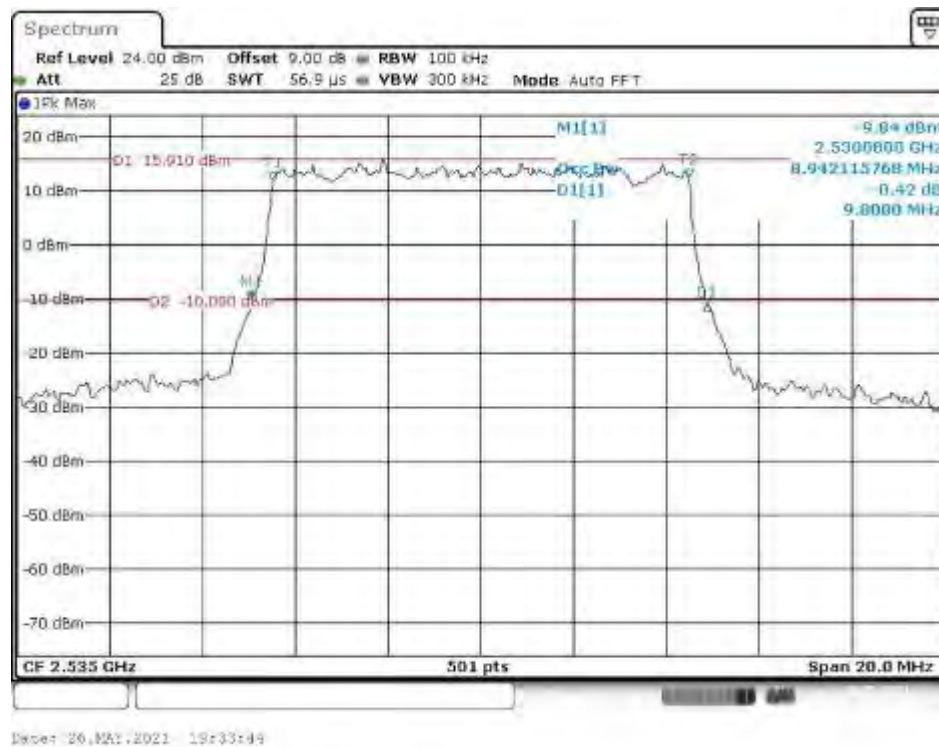
Band 7_10 MHz_Low_QPSK_RB50#0



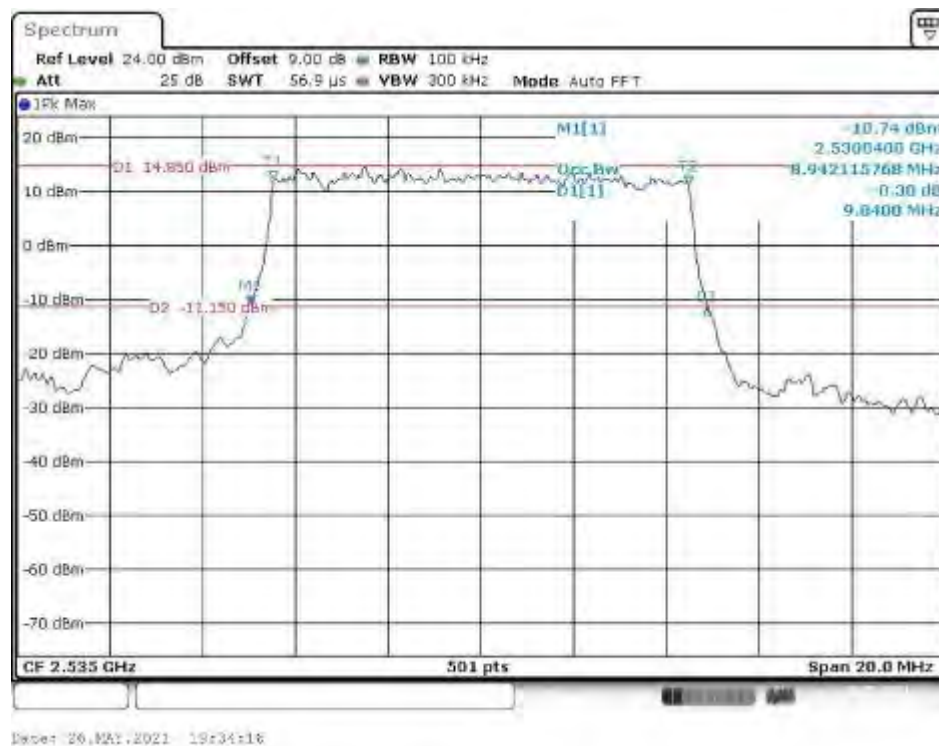
Band 7_10 MHz_Low_16QAM_RB50#0



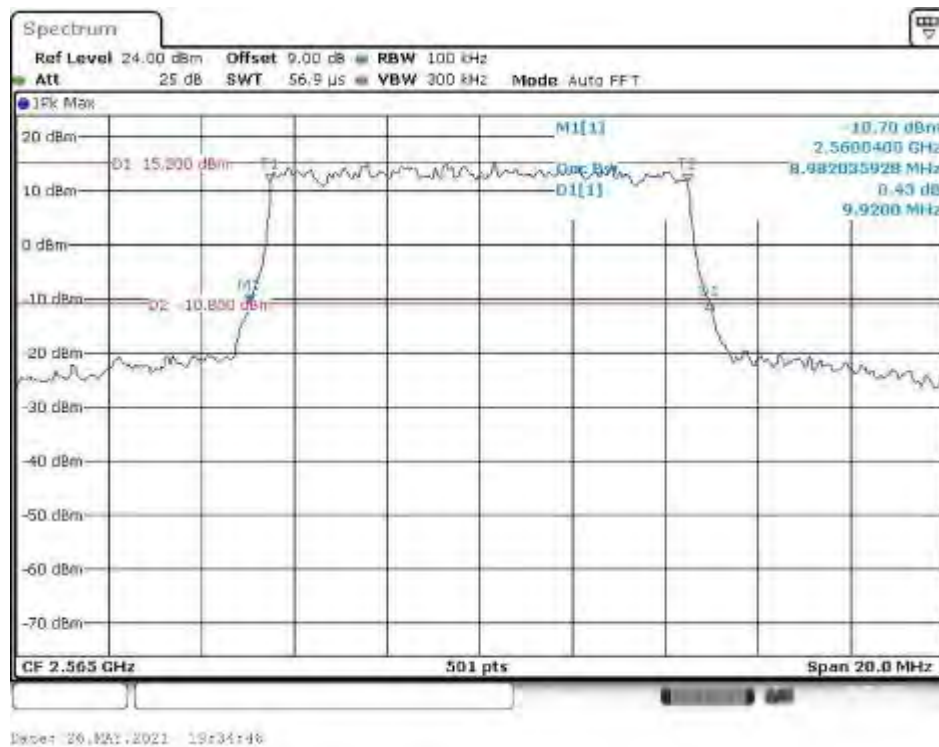
Band 7_10 MHz_Middle_QPSK_RB50#0



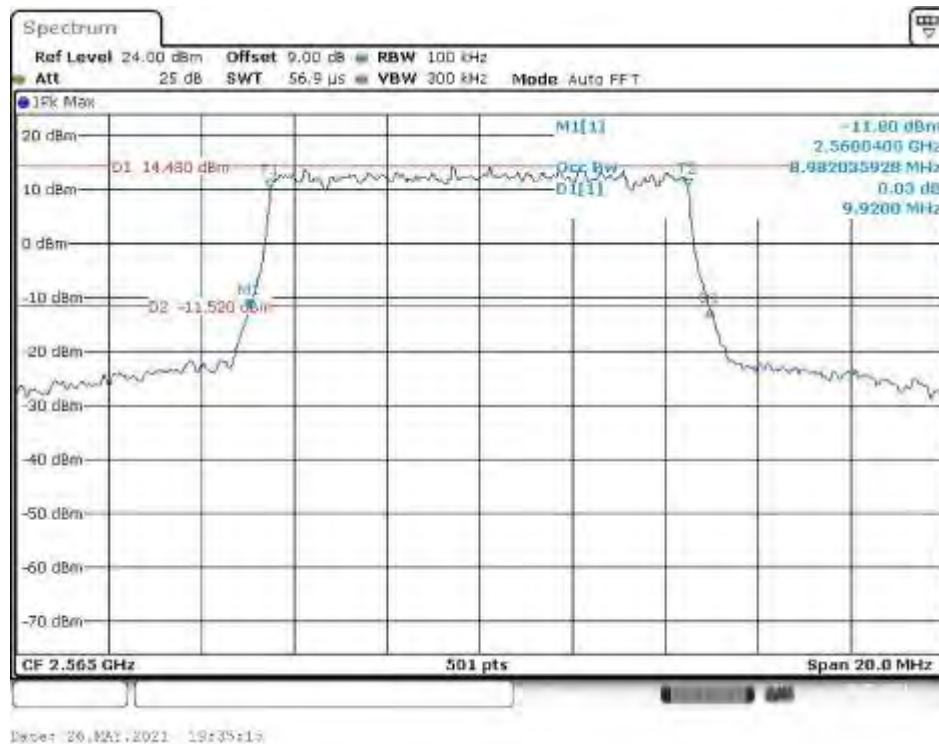
Band 7_10 MHz_Middle_16QAM_RB50#0



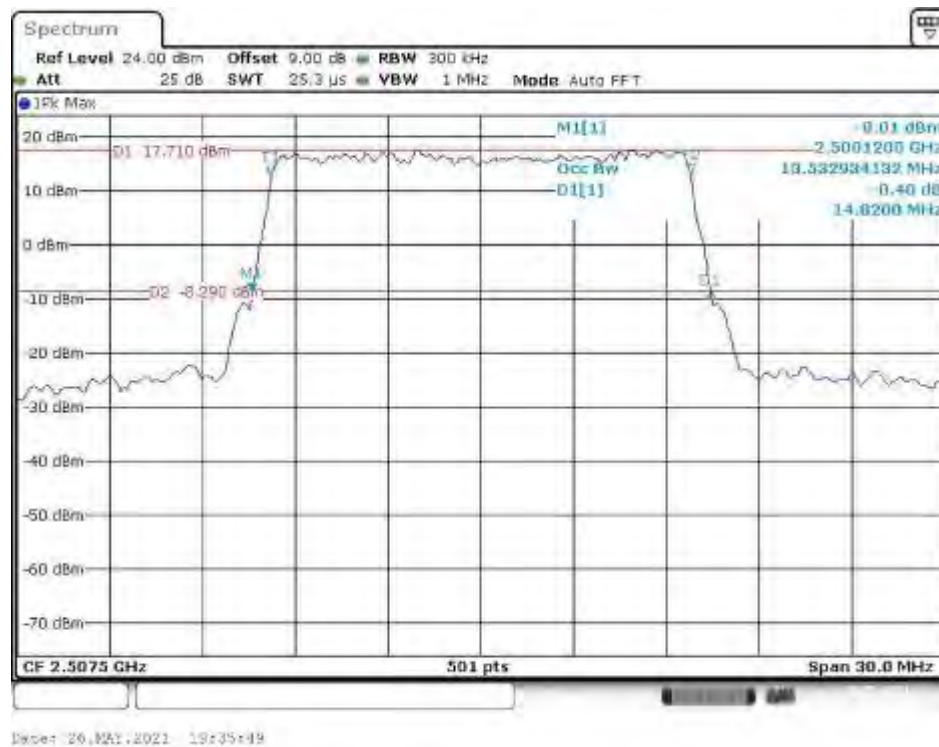
Band 7_10 MHz_High_QPSK_RB50#0



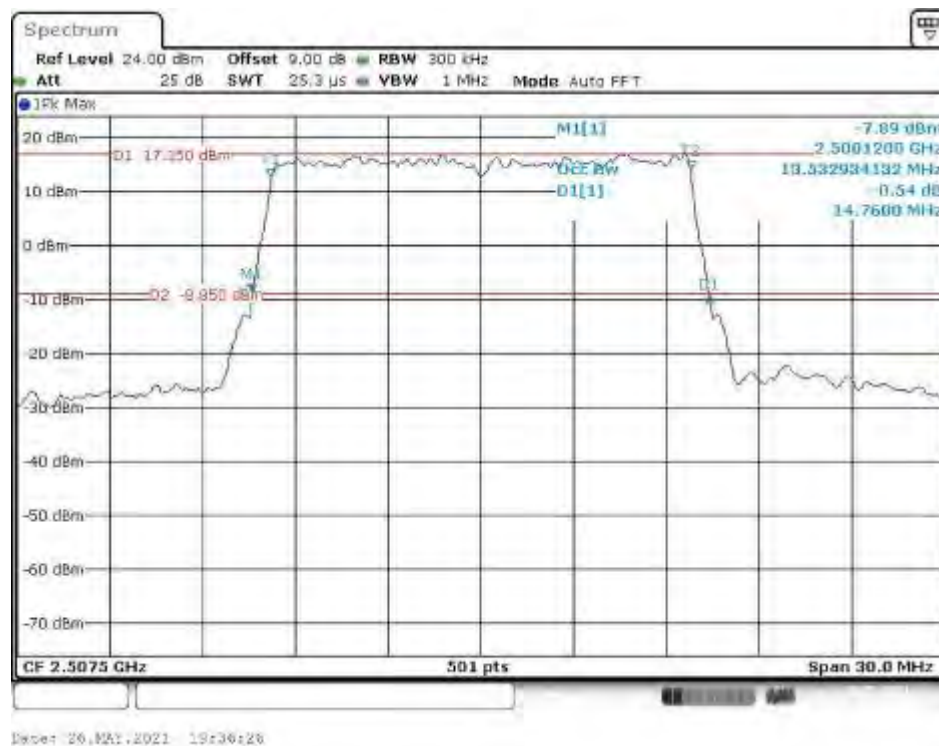
Band 7_10 MHz_High_16QAM_RB50#0



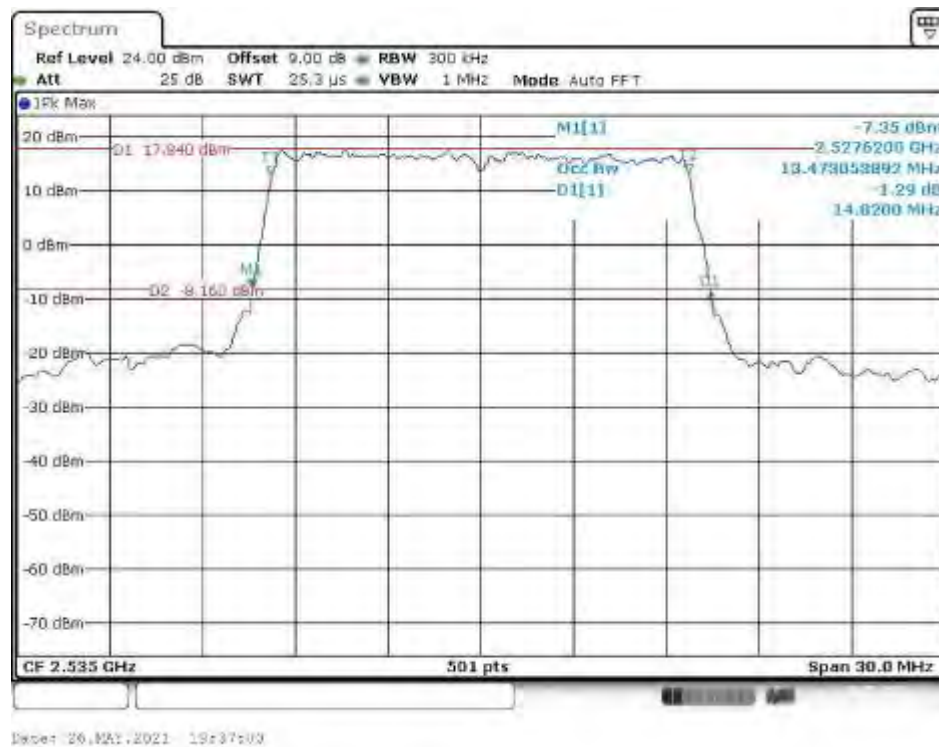
Band 7_15 MHz_Low_QPSK_RB75#0



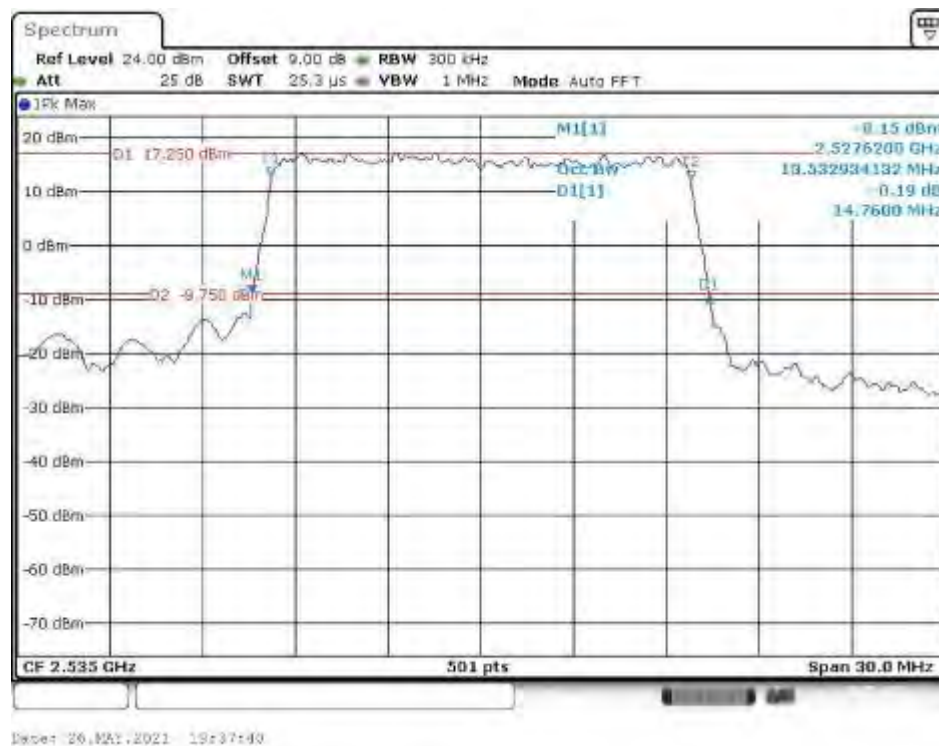
Band 7_15 MHz_Low_16QAM_RB75#0



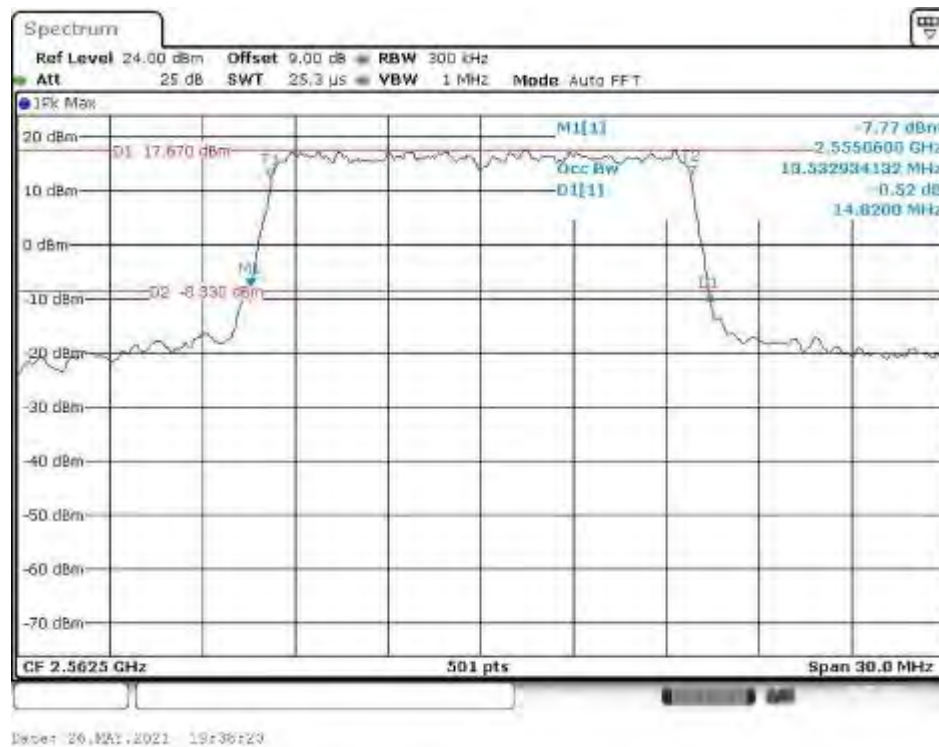
Band 7_15 MHz_Middle_QPSK_RB75#0



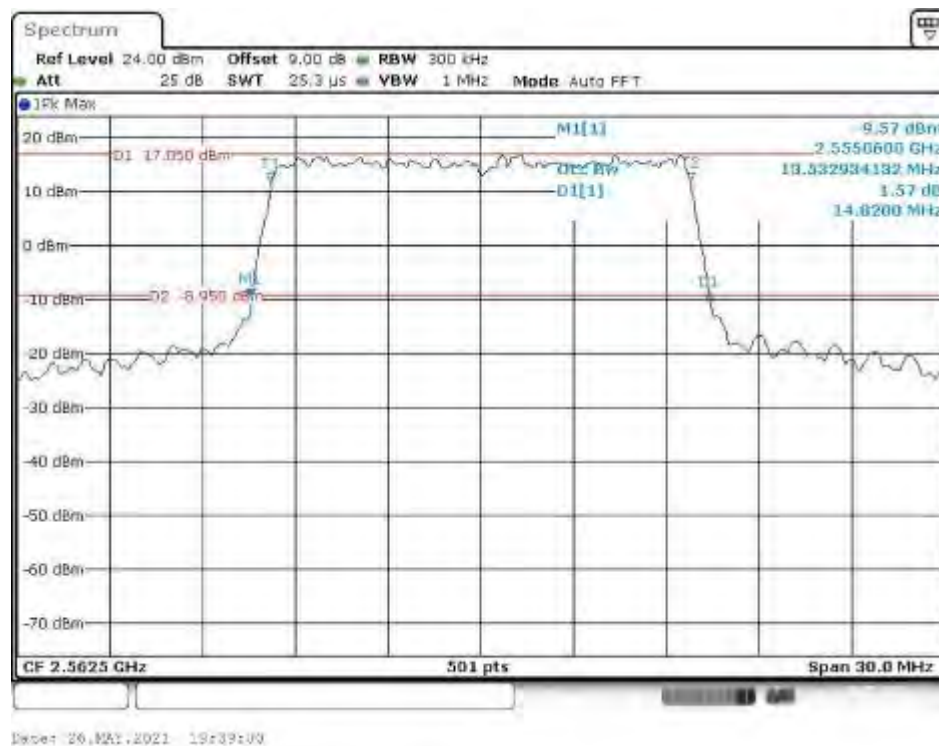
Band 7_15 MHz_Middle_16QAM_RB75#0



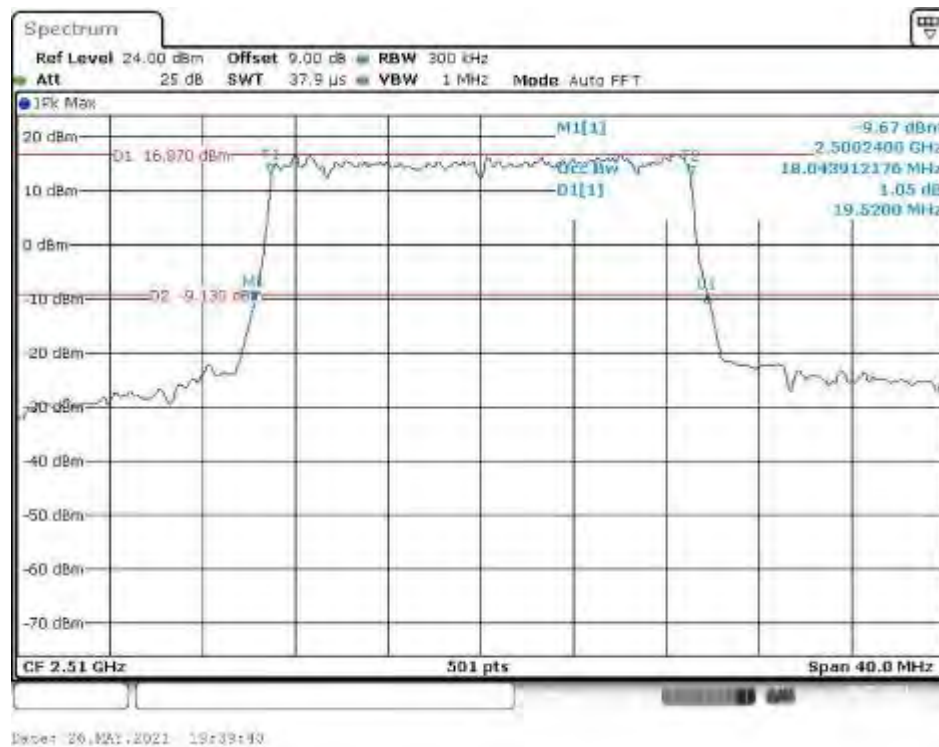
Band 7_15 MHz_High_QPSK_RB75#0



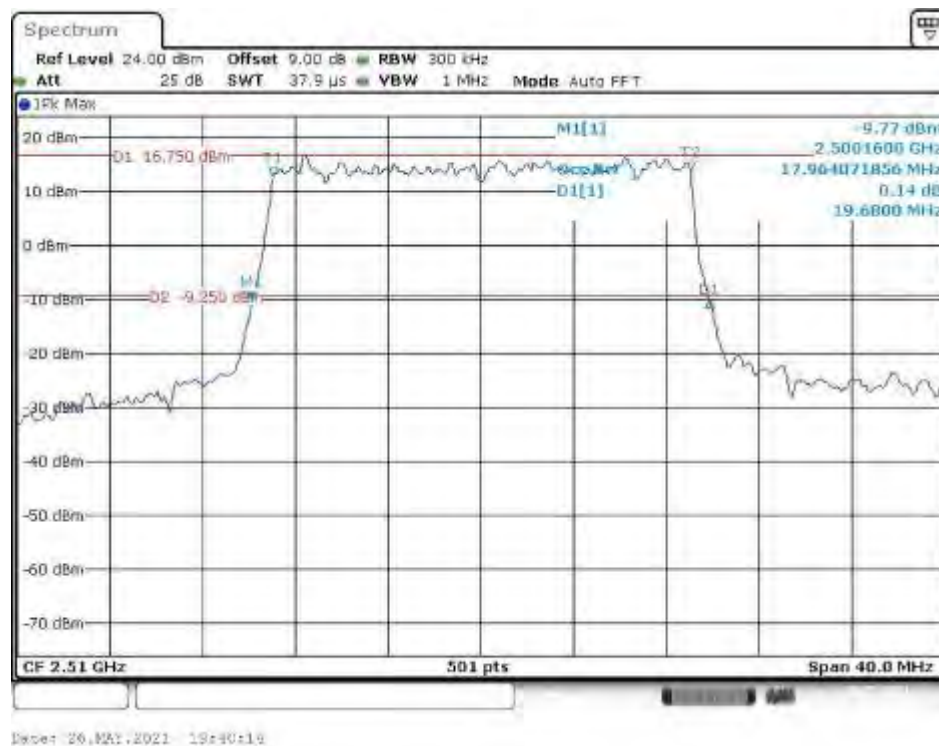
Band 7_15 MHz_High_16QAM_RB75#0



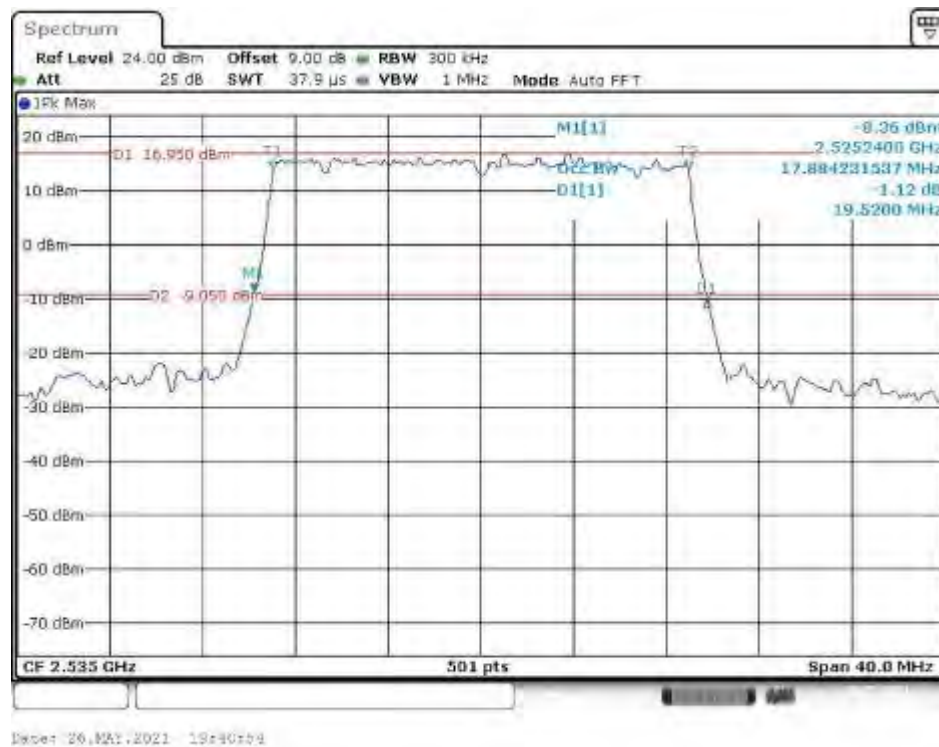
Band 7_20 MHz_Low_QPSK_RB100#0



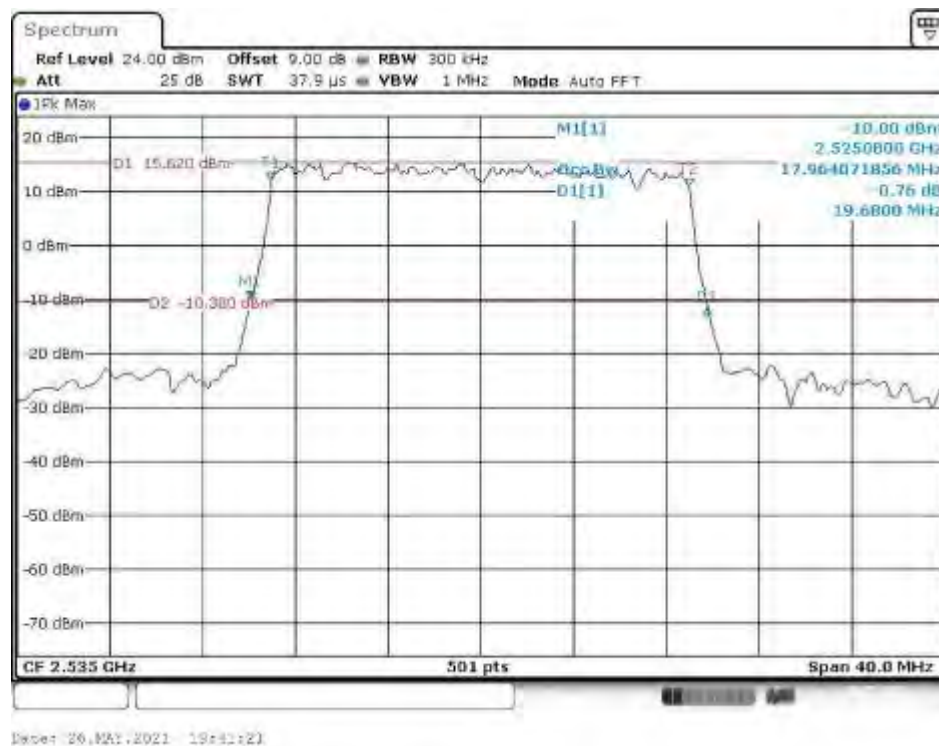
Band 7_20 MHz_Low_16QAM_RB100#0



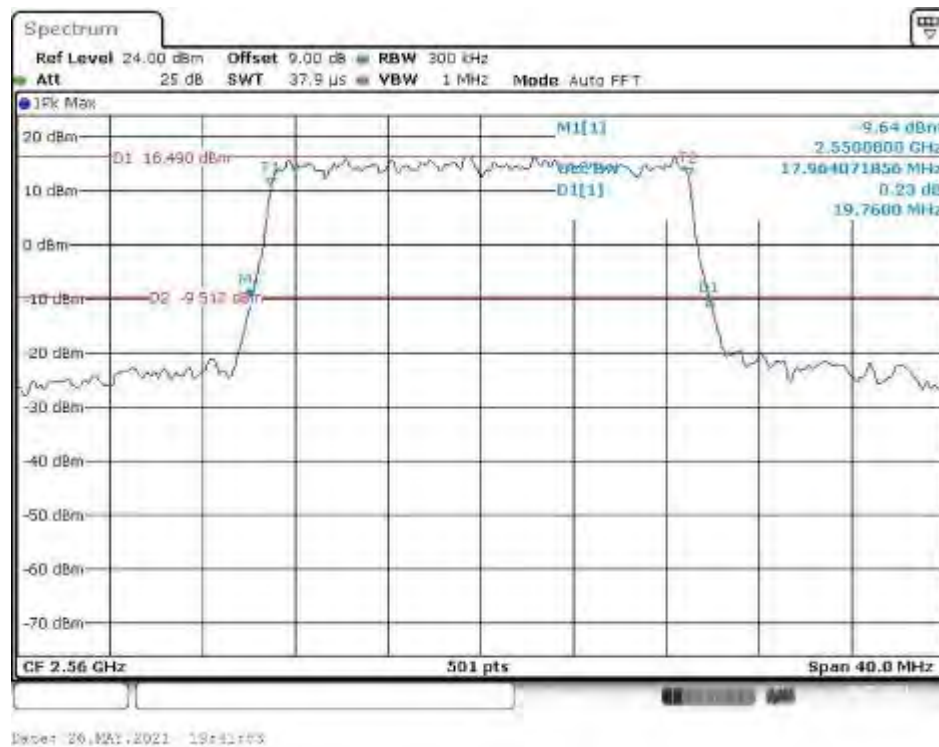
Band 7_20 MHz_Middle_QPSK_RB100#0



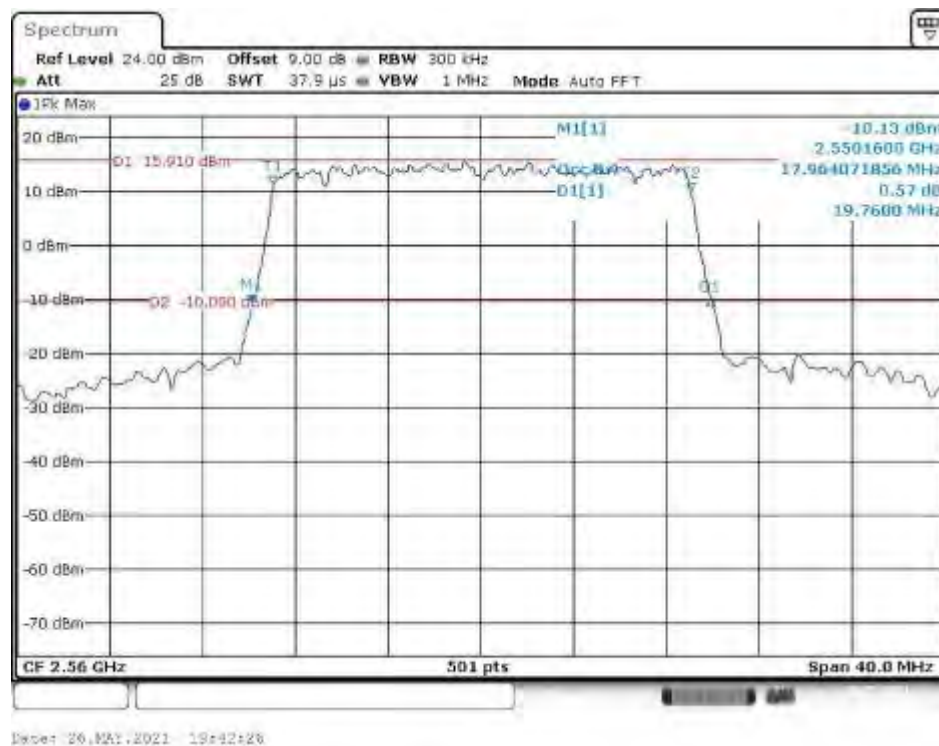
Band 7_20 MHz_Middle_16QAM_RB100#0



Band 7_20 MHz_High_QPSK_RB100#0



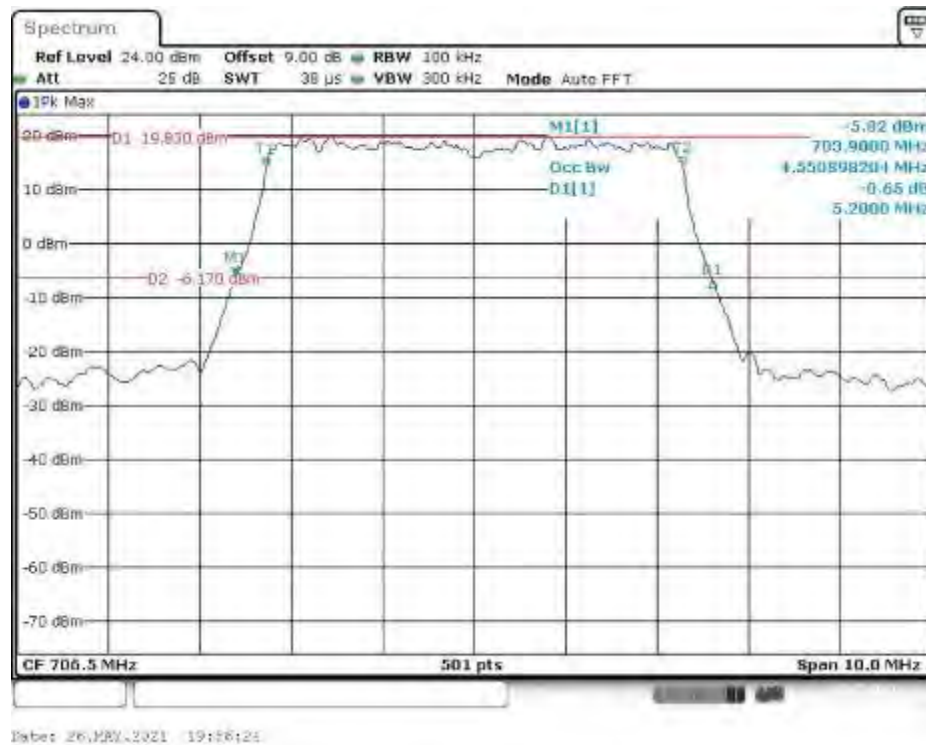
Band 7_20 MHz_High_16QAM_RB100#0



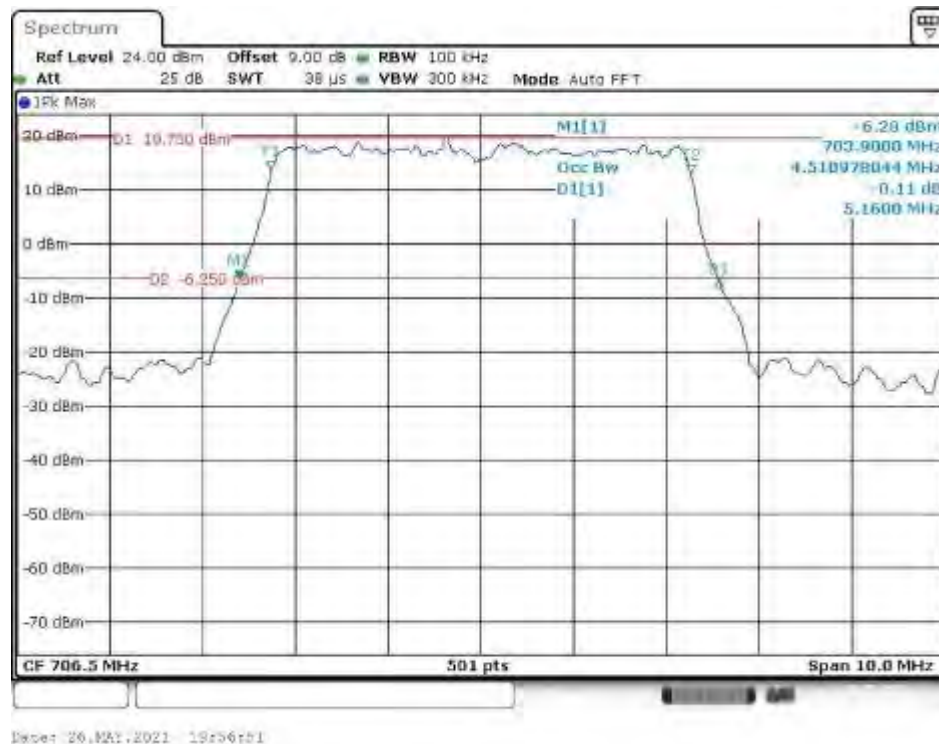
LTE Band 17:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
5 MHz	QPSK	4.511	5.200	4.511	5.160	4.511	5.200
	16QAM	4.511	5.160	4.531	5.160	4.511	5.220
10 MHz	QPSK	8.982	9.960	8.942	9.800	8.982	9.960
	16QAM	8.942	9.760	8.942	9.840	8.982	9.840

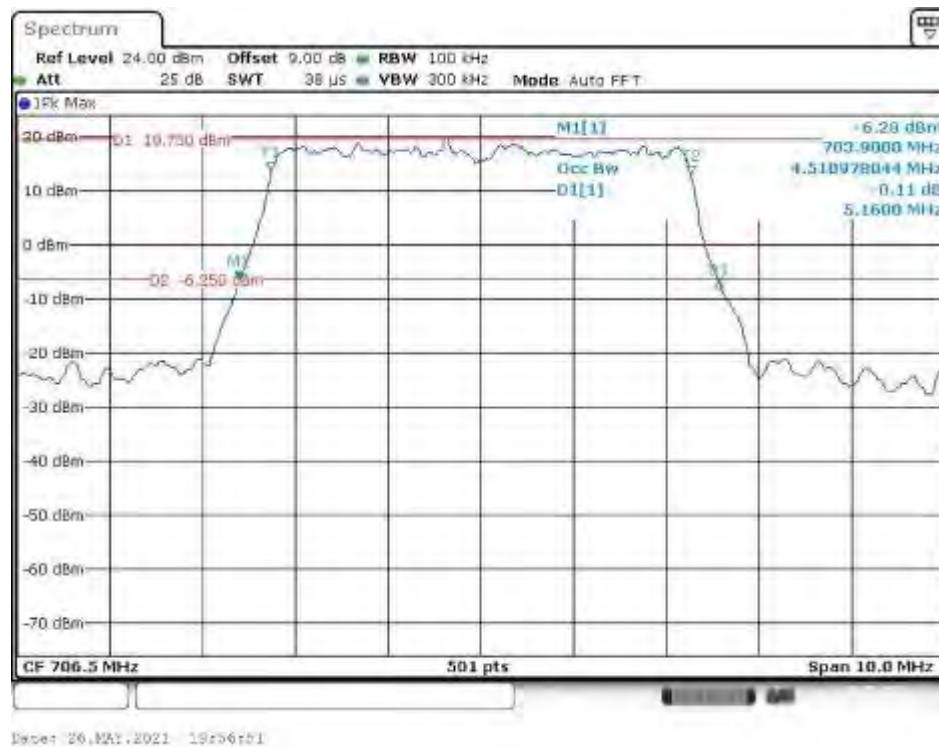
Band 17_5 MHz_Low_QPSK_RB25#0



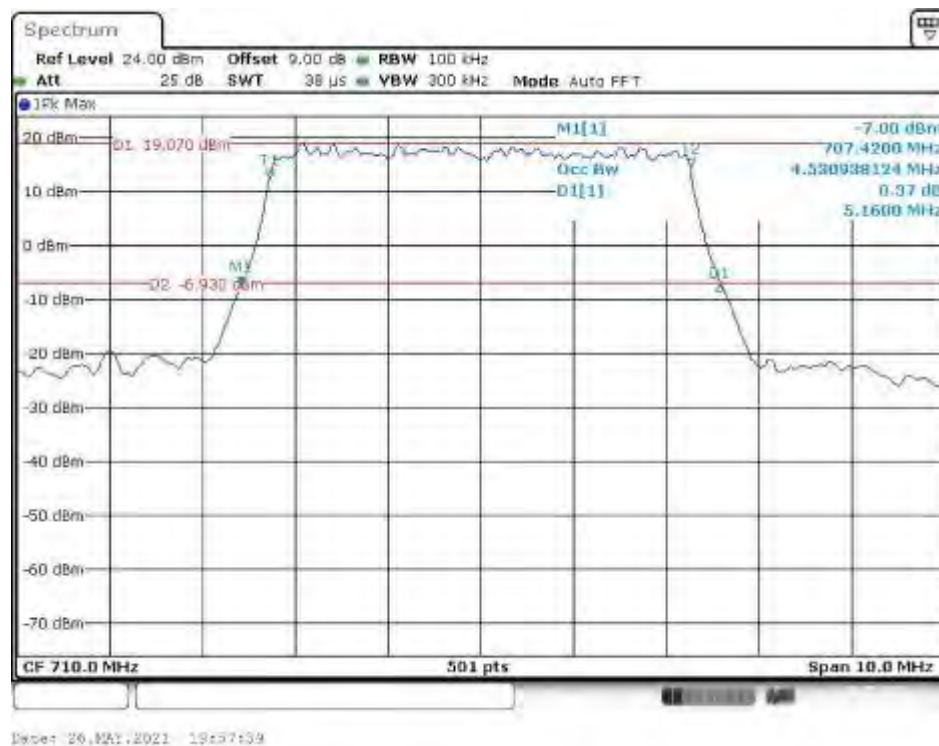
Band 17_5 MHz_Low_16QAM_RB25#0



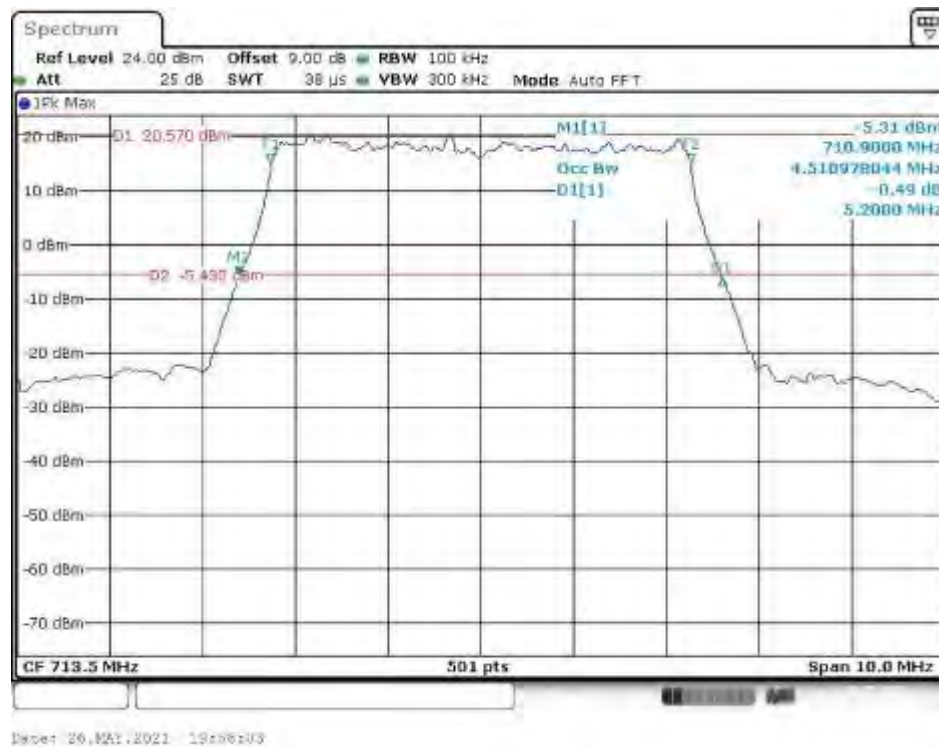
Band 17_5 MHz_Middle_QPSK_RB25#0



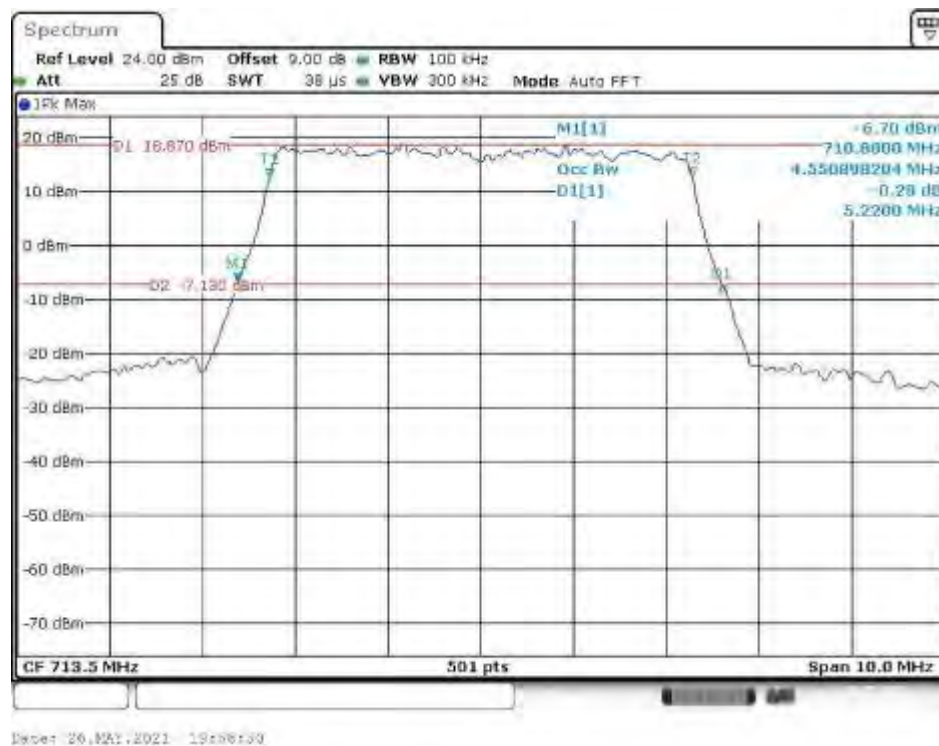
Band 17_5 MHz_Middle_16QAM_RB25#0



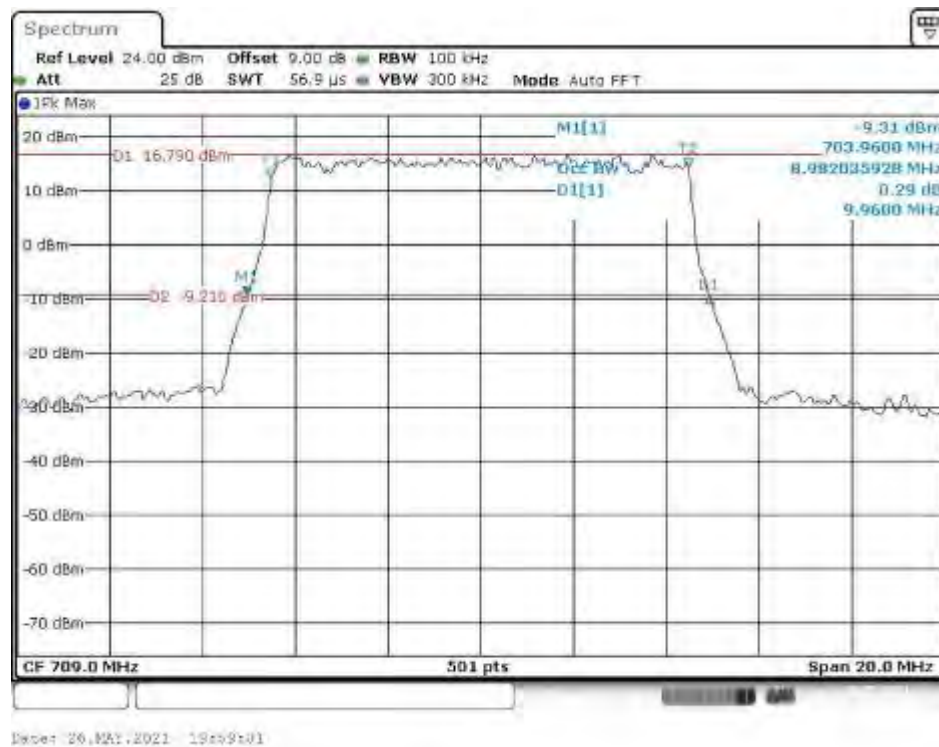
Band 17_5 MHz_High_QPSK_RB25#0



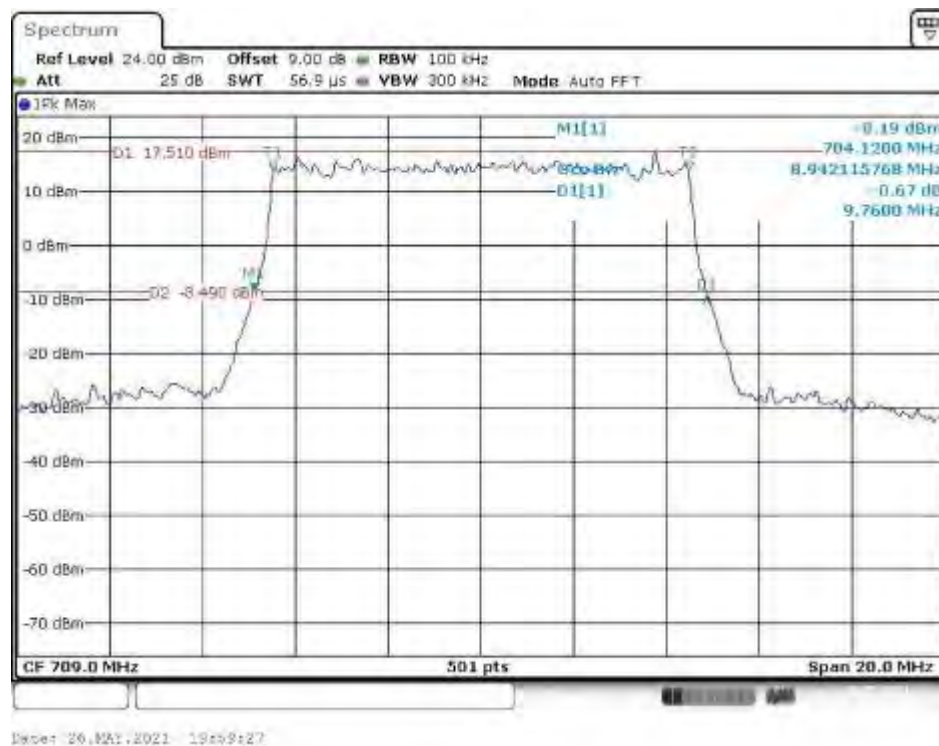
Band 17_5 MHz_High_16QAM_RB25#0



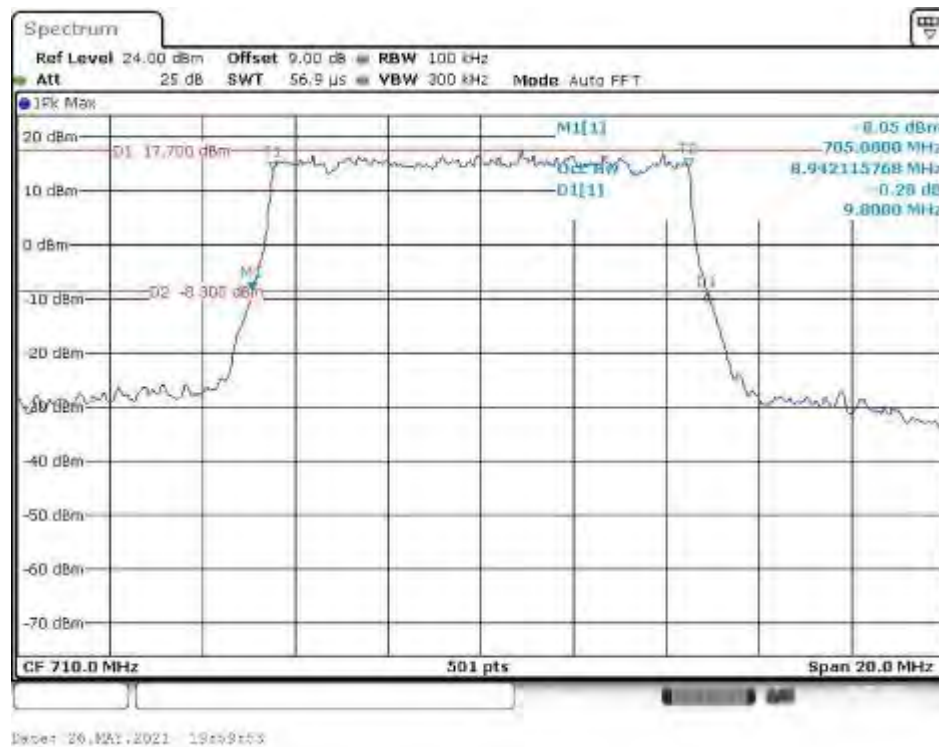
Band 17_10 MHz_Low_QPSK_RB50#0



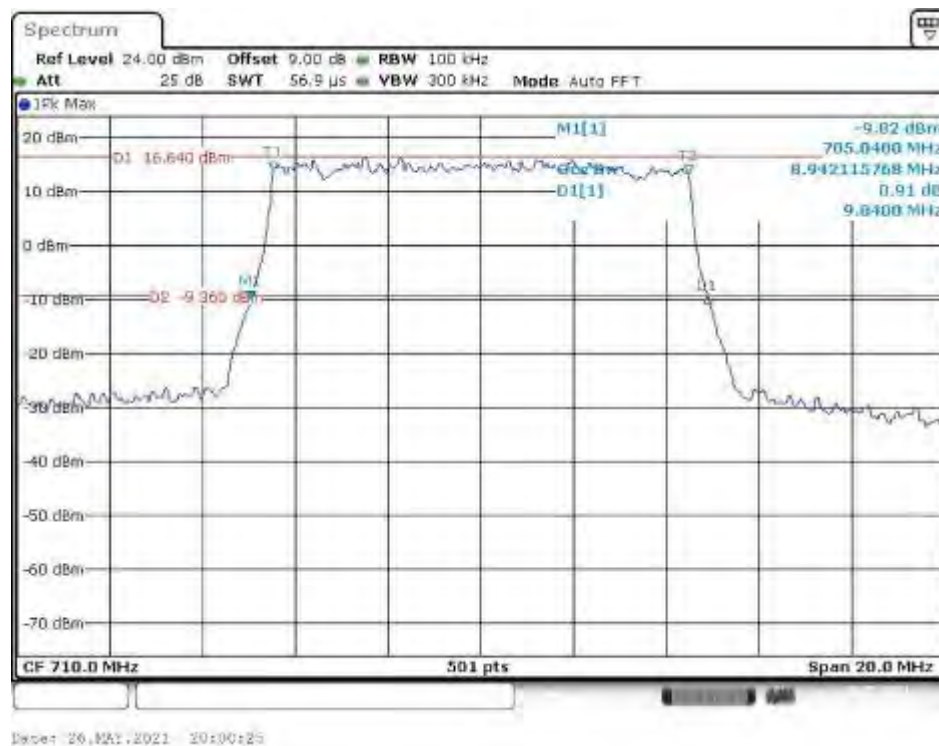
Band 17_10 MHz_Low_16QAM_RB50#0



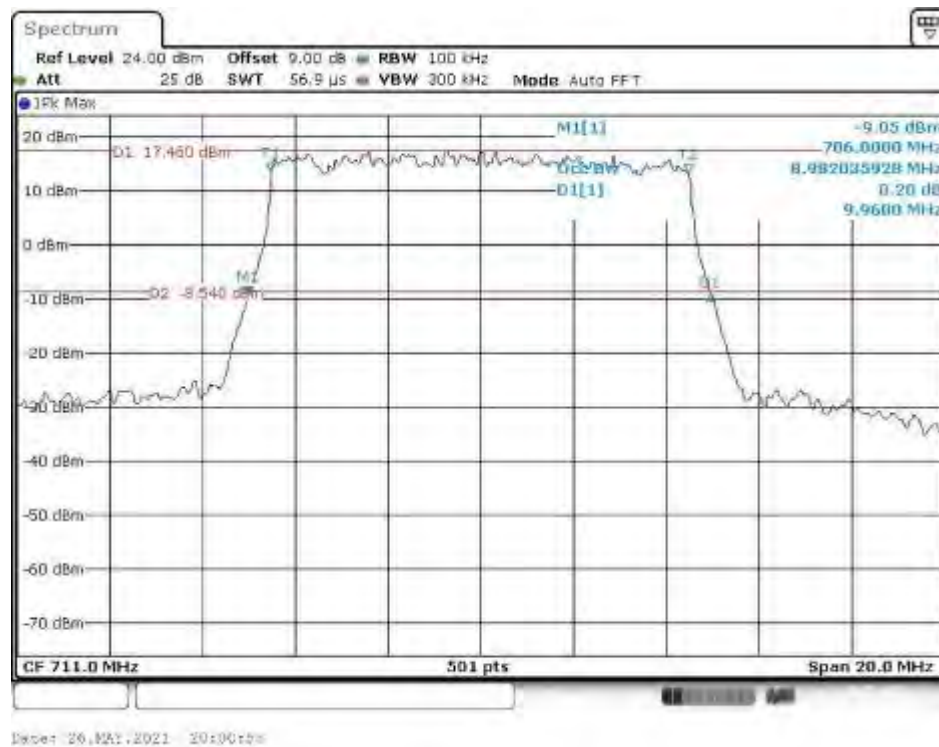
Band 17_10 MHz_Middle_QPSK_RB50#0



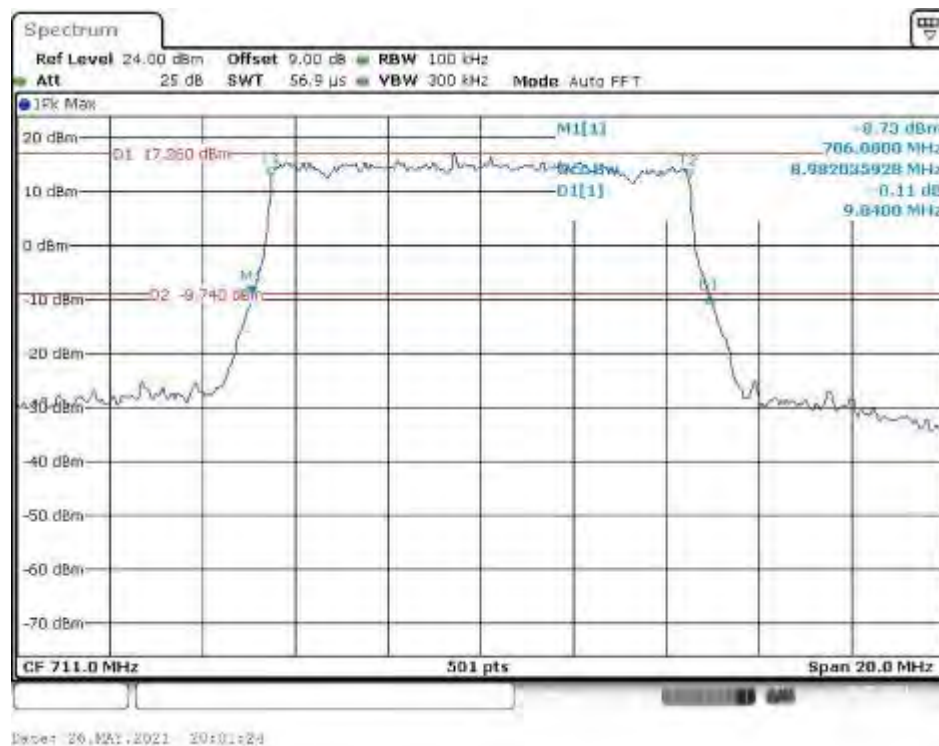
Band 17_10 MHz_Middle_16QAM_RB50#0



Band 17_10 MHz_High_QPSK_RB50#0



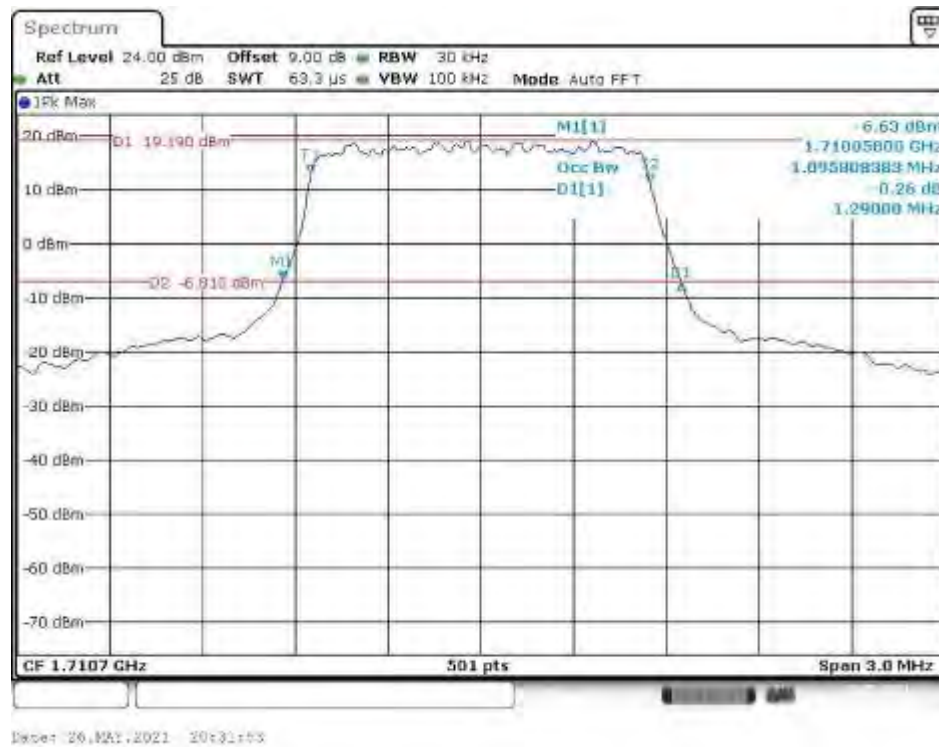
Band 17_10 MHz_High_16QAM_RB50#0



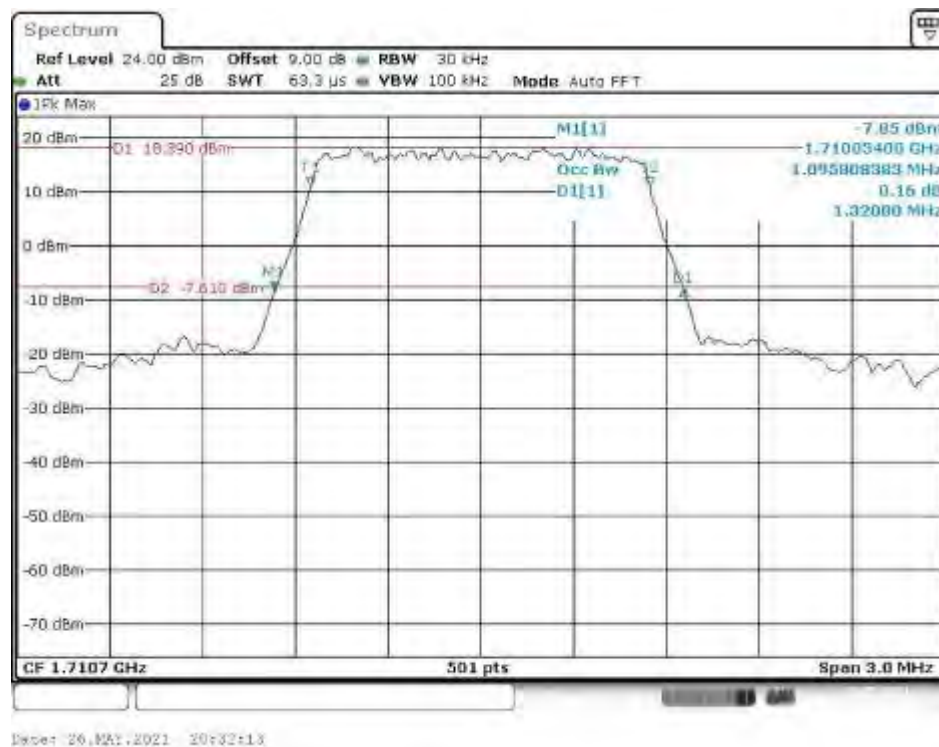
LTE Band 66:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
1.4 MHz	QPSK	1.096	1.290	1.102	1.314	1.102	1.314
	16QAM	1.096	1.320	1.090	1.278	1.096	1.284
3 MHz	QPSK	2.683	2.880	2.683	2.880	2.683	2.892
	16QAM	2.683	2.880	2.683	2.868	2.683	2.868
5 MHz	QPSK	4.511	5.200	4.511	5.200	4.511	5.180
	16QAM	4.511	5.160	4.551	5.200	4.551	5.240
10 MHz	QPSK	8.982	10.000	8.942	9.840	8.982	9.960
	16QAM	8.942	9.840	8.942	9.920	8.982	9.920
15 MHz	QPSK	13.534	14.880	13.533	14.880	13.473	14.880
	16QAM	13.533	14.880	13.533	14.820	13.473	14.760
20 MHz	QPSK	17.884	19.520	17.884	19.600	17.964	19.920
	16QAM	17.964	19.600	17.964	19.760	17.964	19.680

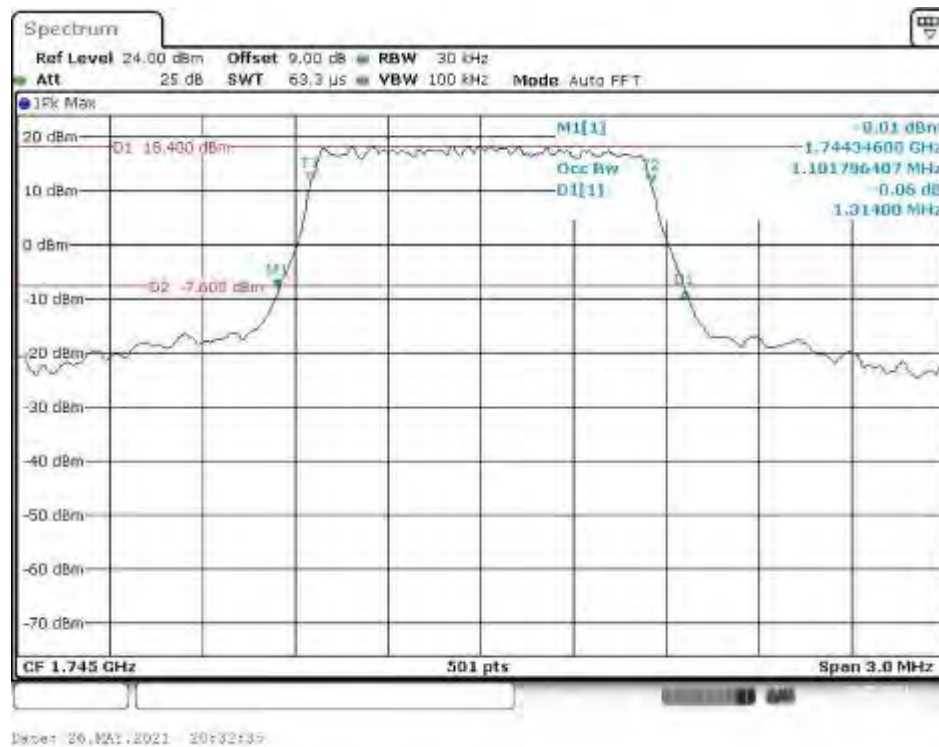
Band 66_1.4 MHz_Low_QPSK_RB6#0



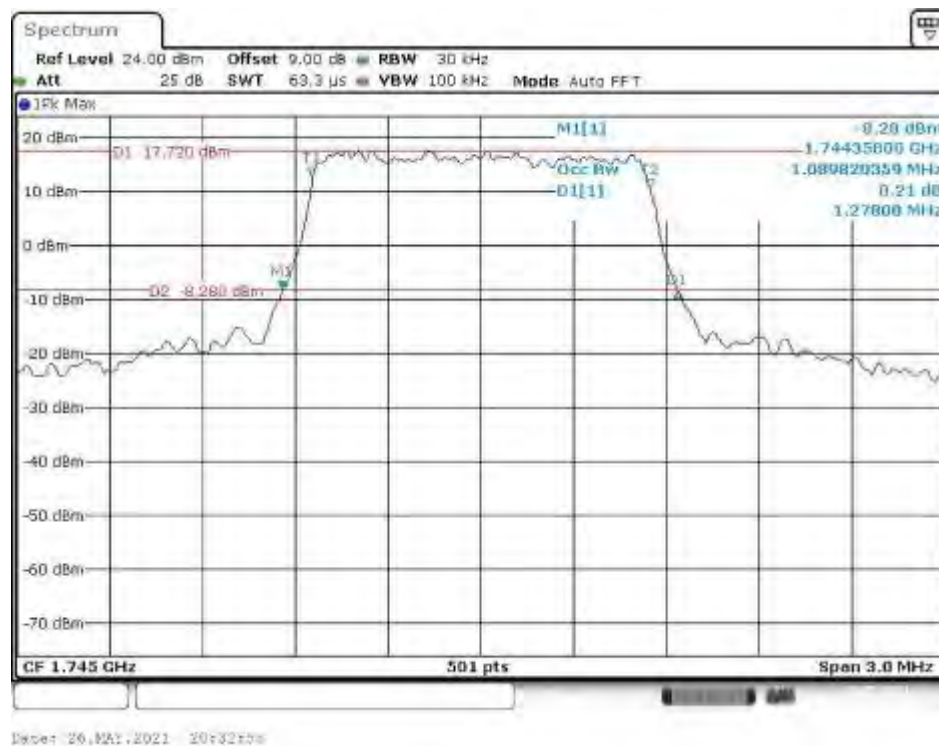
Band 66_1.4 MHz_Low_16QAM_RB6#0



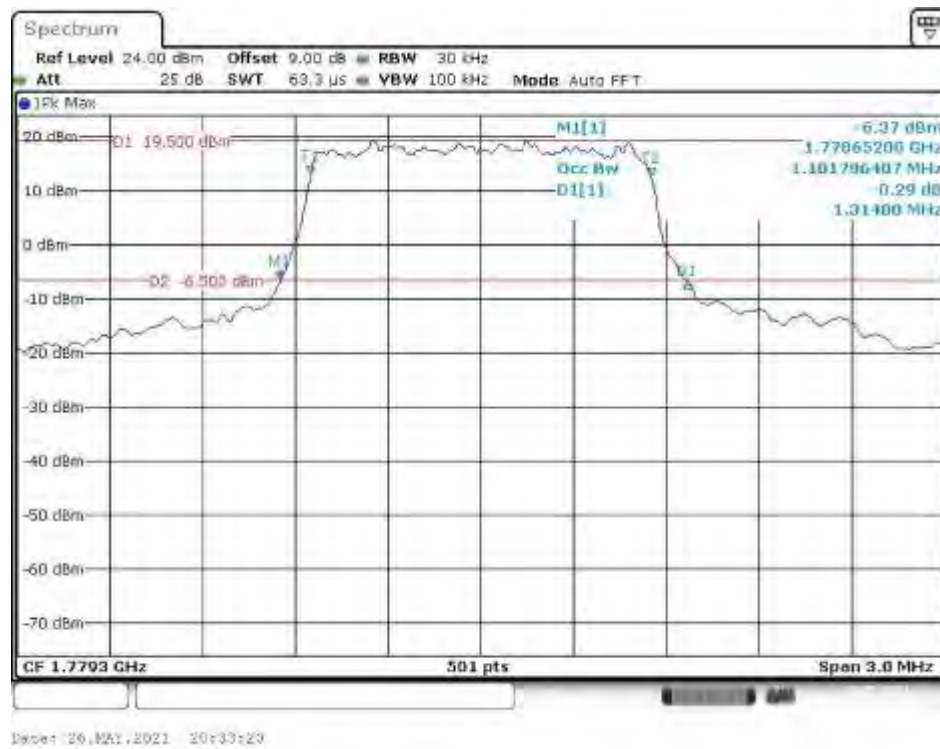
Band 66_1.4 MHz_Middle_QPSK_RB6#0



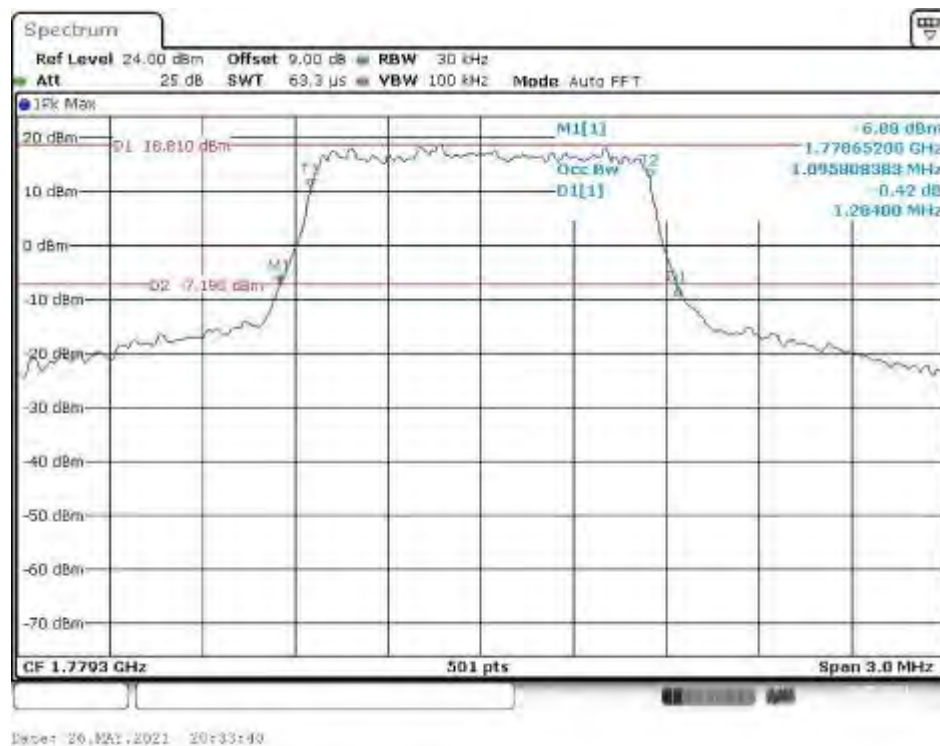
Band 66_1.4 MHz_Middle_16QAM_RB6#0



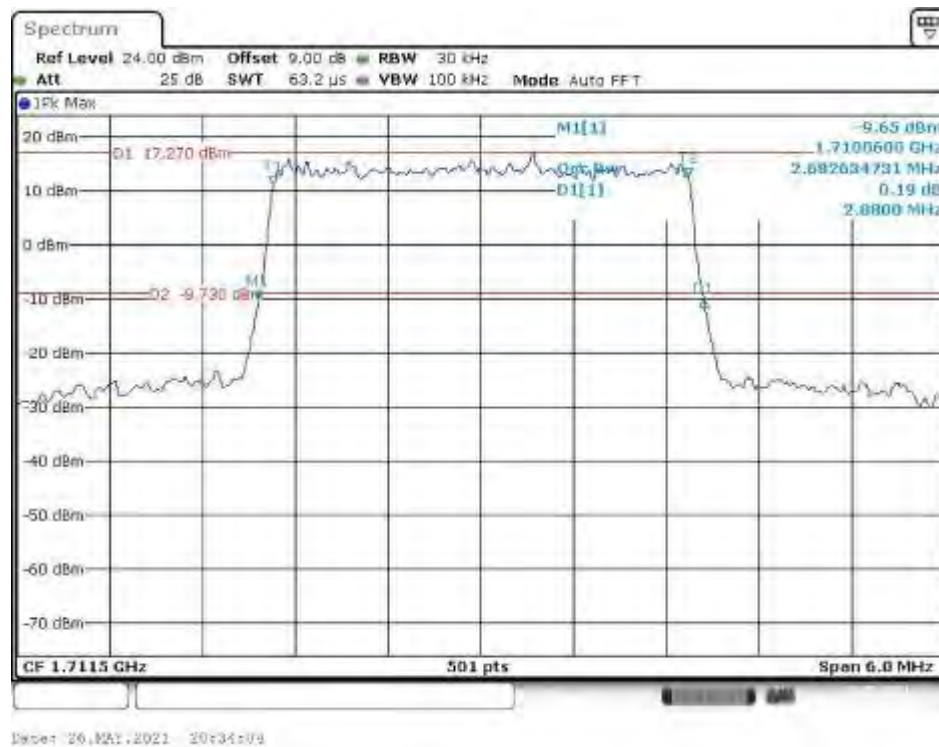
Band 66_1.4 MHz_High_QPSK_RB6#0



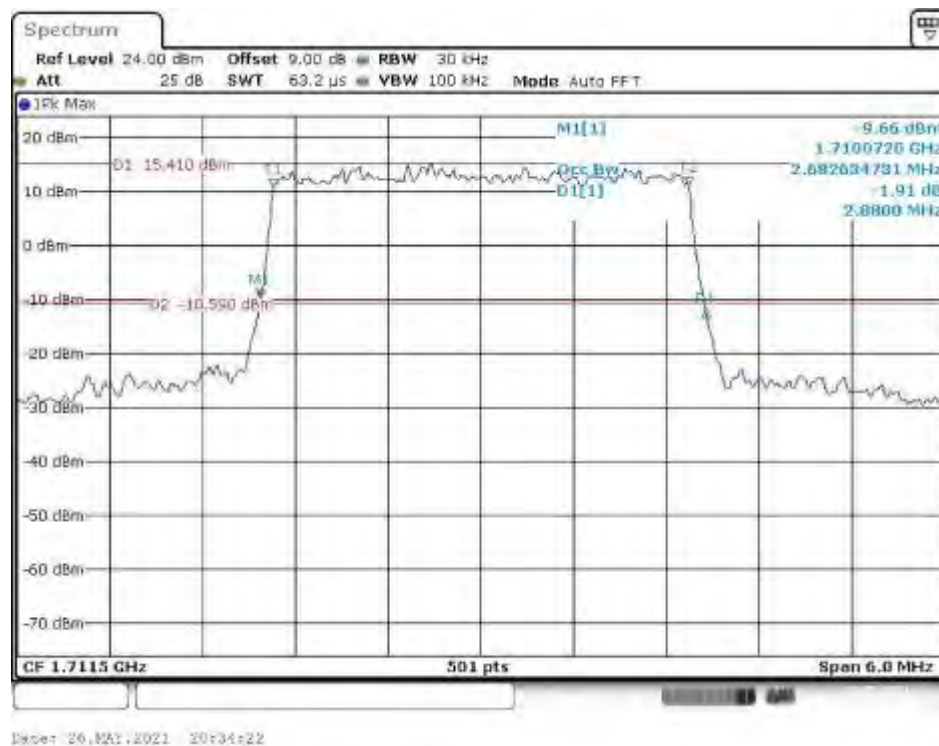
Band 66_1.4 MHz_High_16QAM_RB6#0



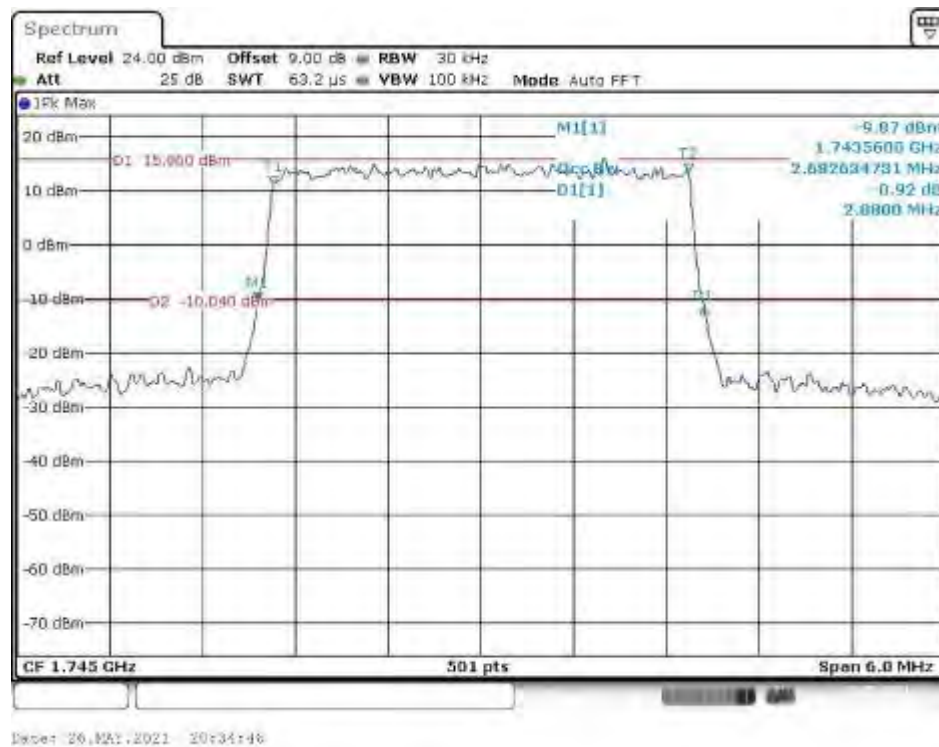
Band 66_3 MHz_Low_QPSK_RB15#0



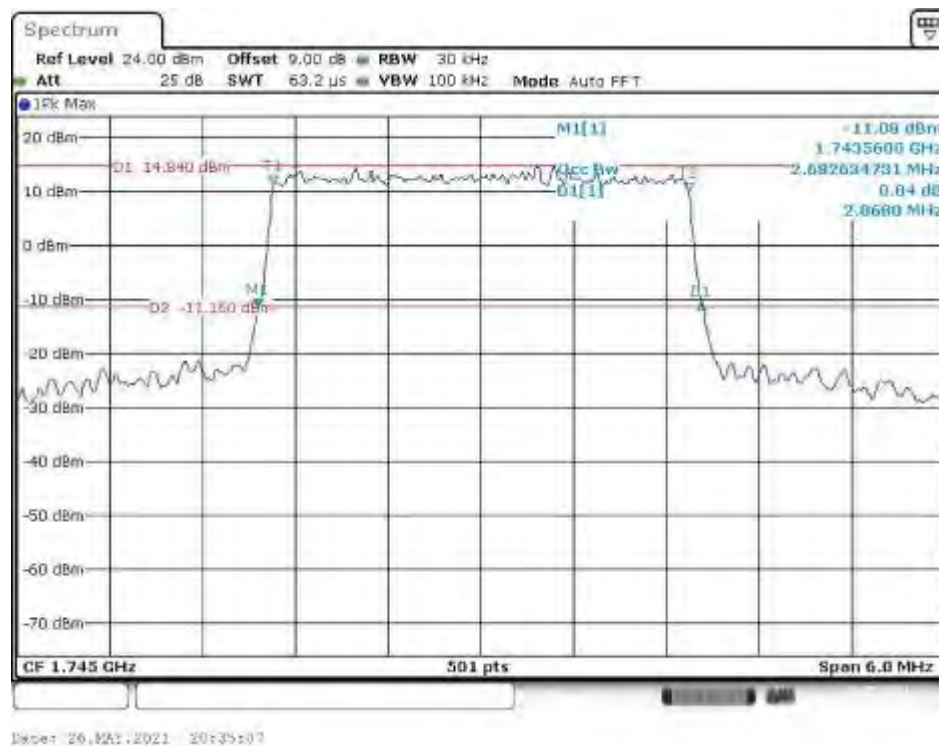
Band 66_3 MHz_Low_16QAM_RB15#0



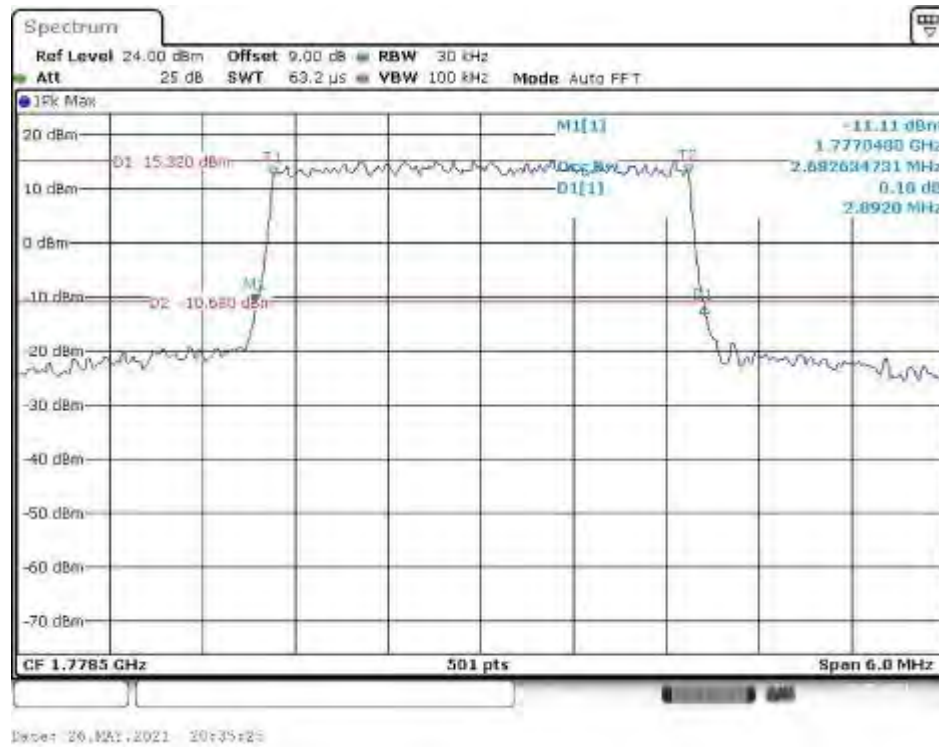
Band 66_3 MHz_Middle_QPSK_RB15#0



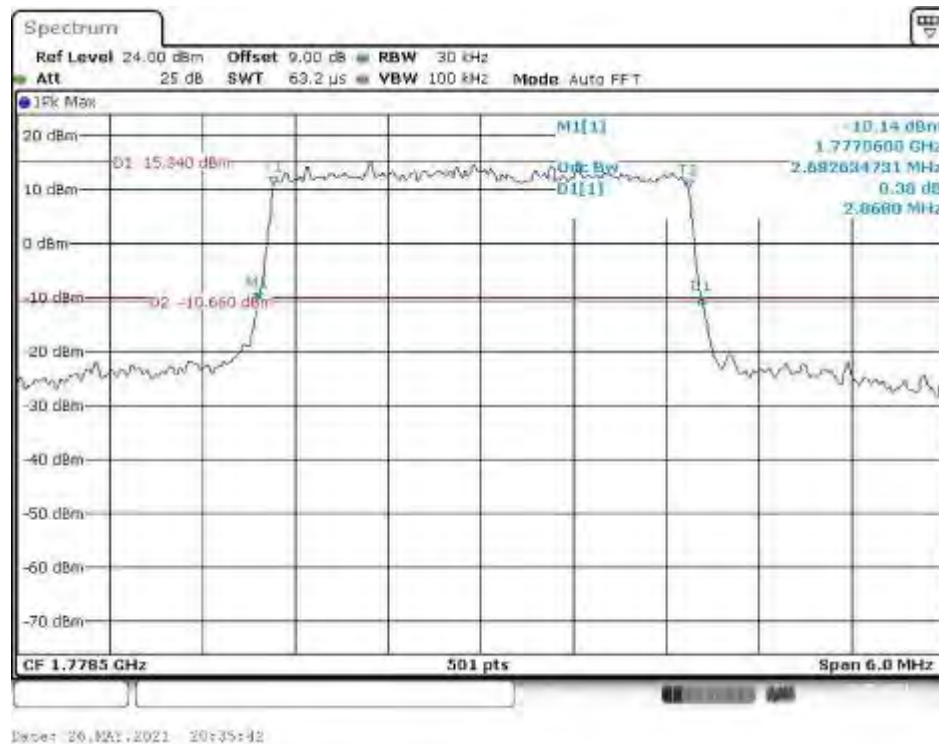
Band 66_3 MHz_Middle_16QAM_RB15#0



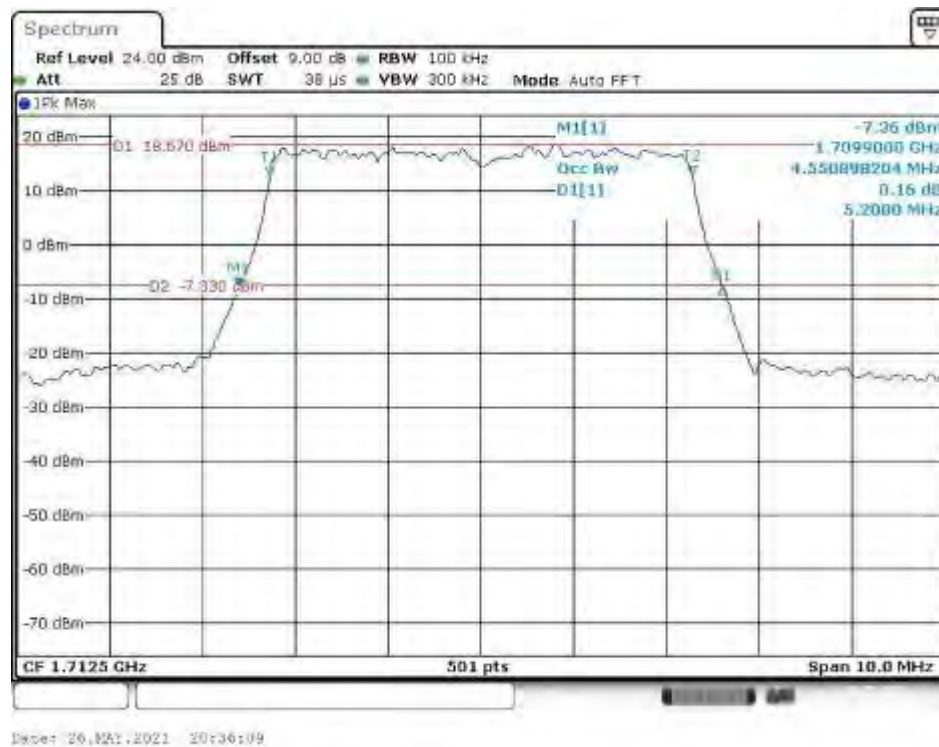
Band 66_3 MHz_High_QPSK_RB15#0



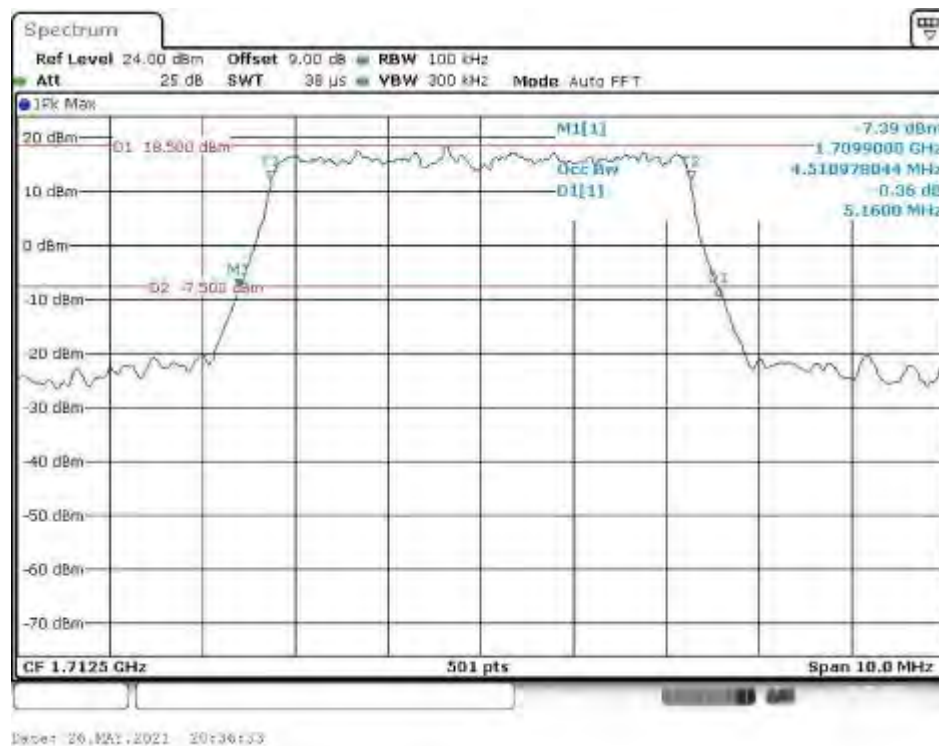
Band 66_3 MHz_High_16QAM_RB15#0



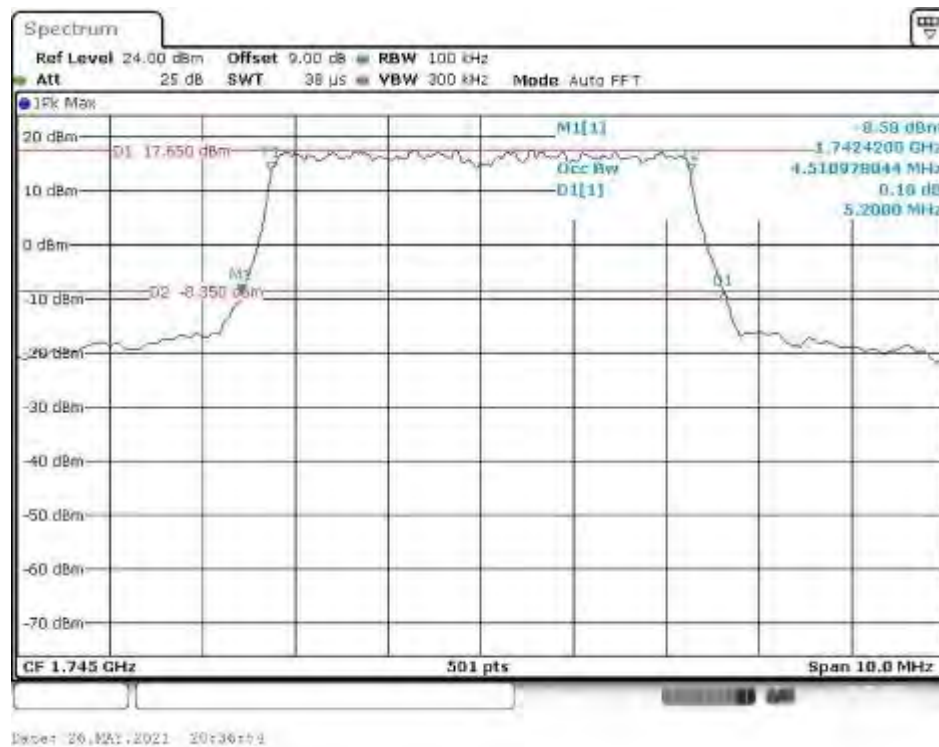
Band 66_5 MHz_Low_QPSK_RB25#0



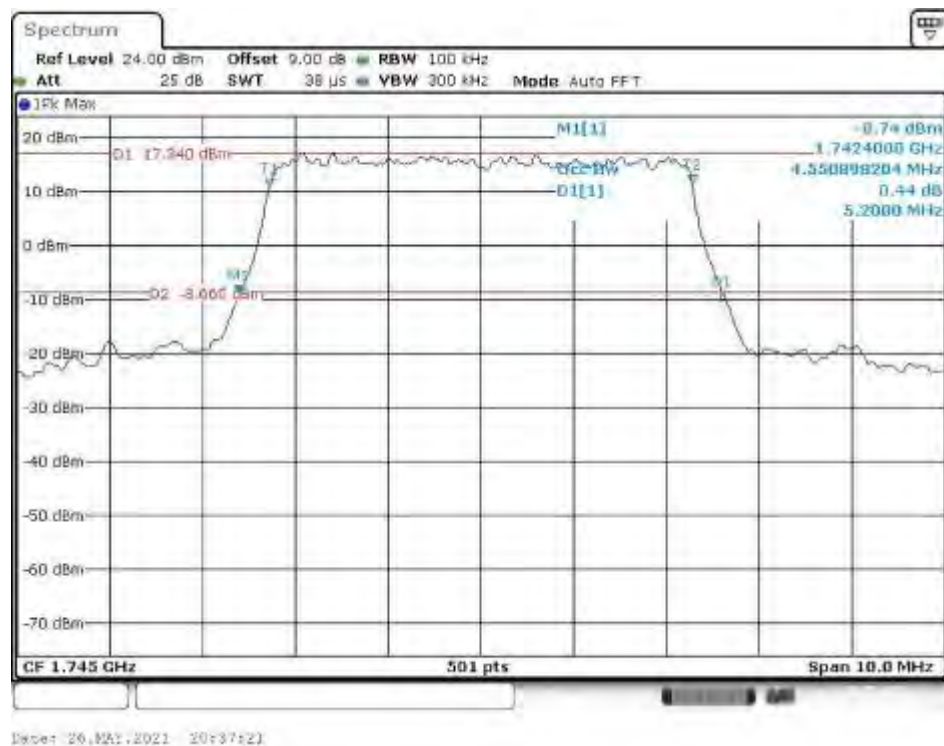
Band 66_5 MHz_Low_16QAM_RB25#0



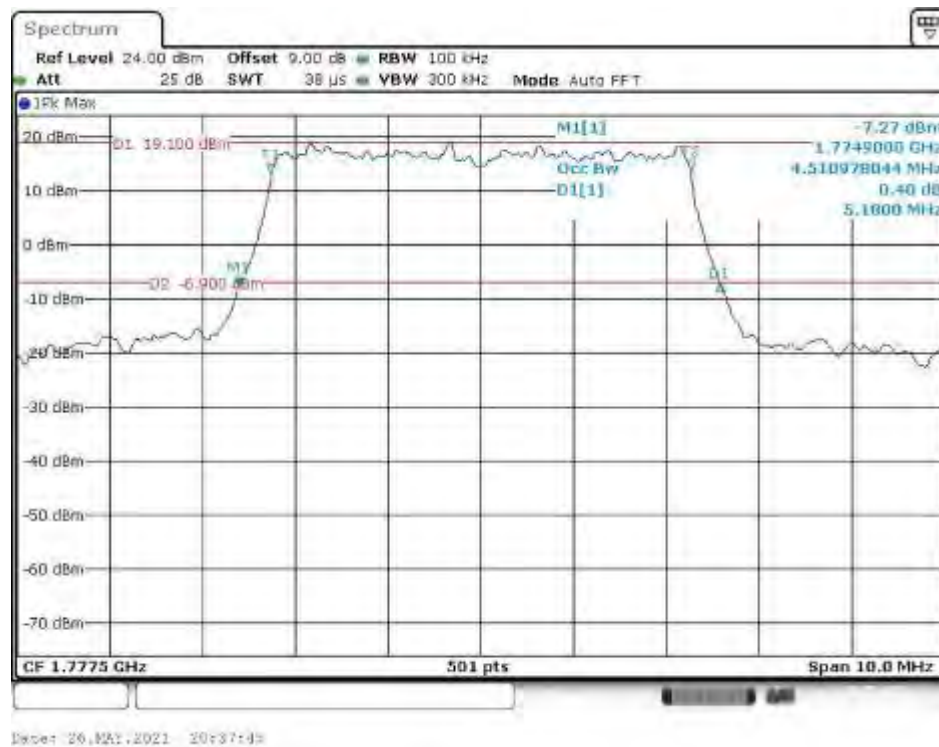
Band 66_5 MHz_Middle_QPSK_RB25#0



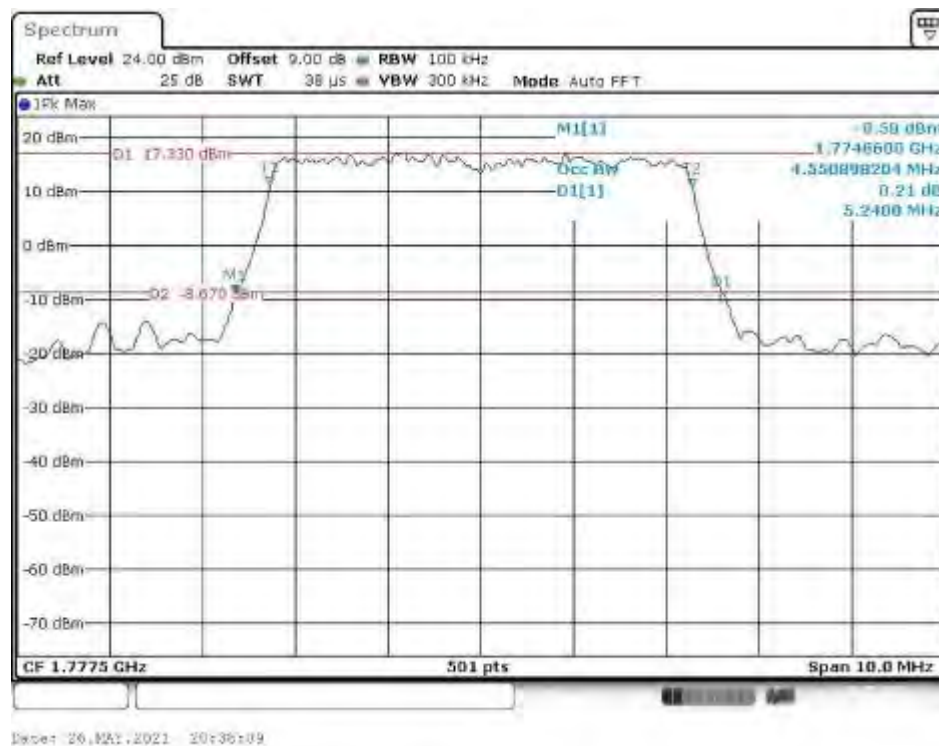
Band 66_5 MHz_Middle_16QAM_RB25#0



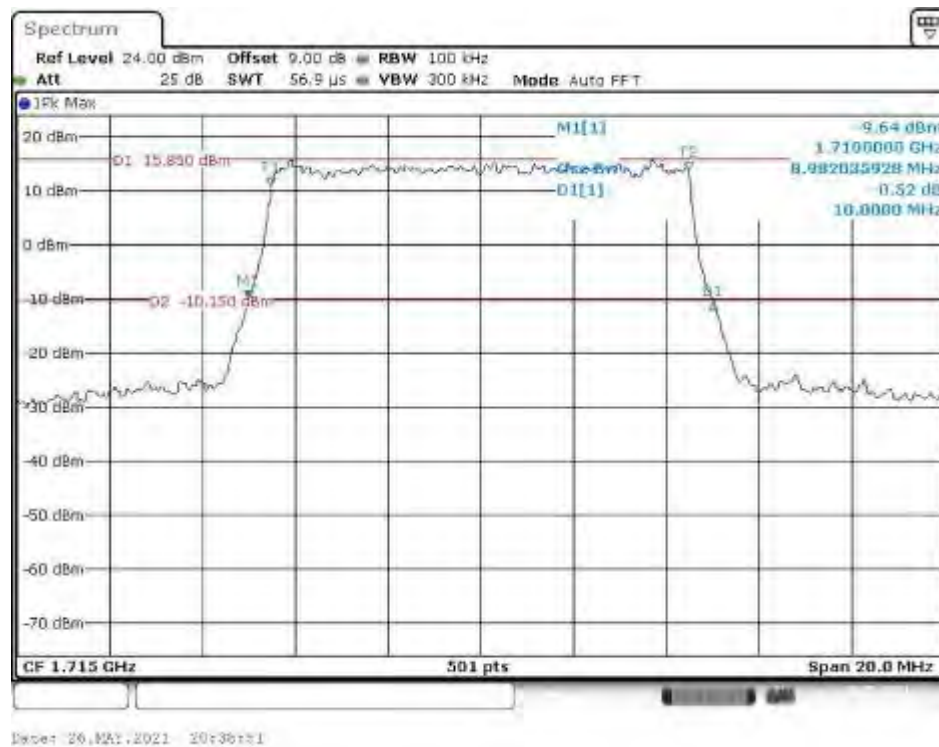
Band 66_5 MHz_High_QPSK_RB25#0



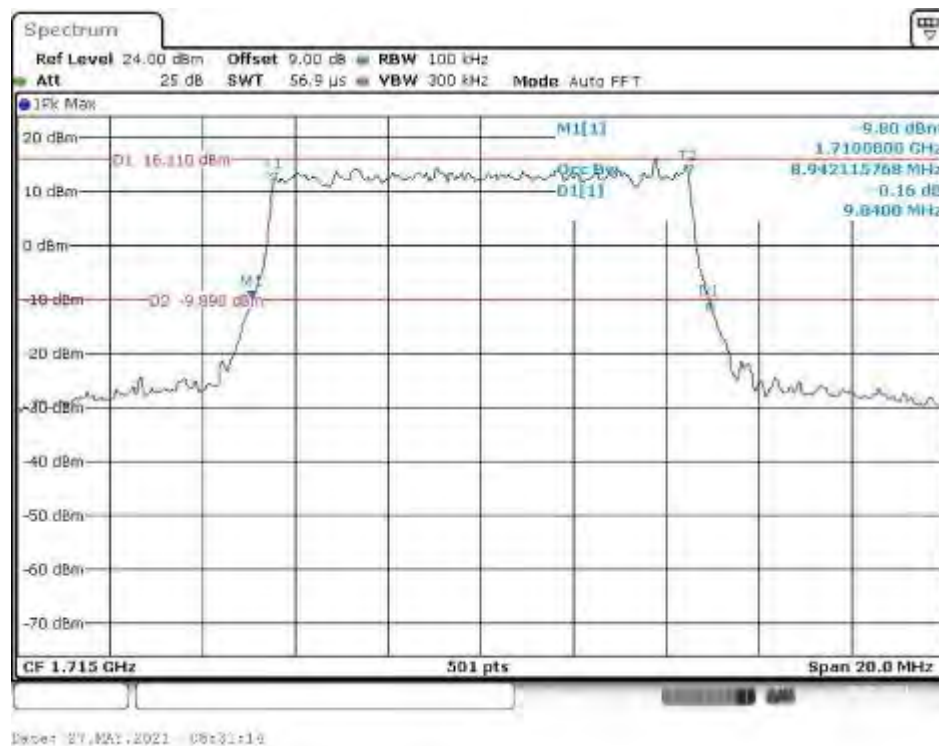
Band 66_5 MHz_High_16QAM_RB25#0



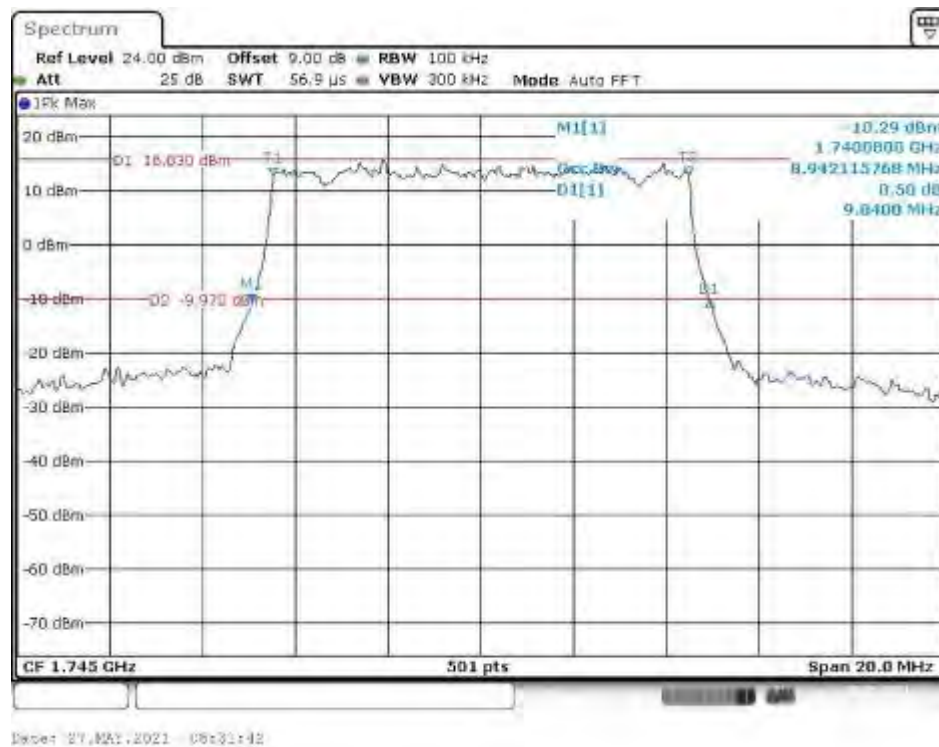
Band 66_10 MHz_Low_QPSK_RB50#0



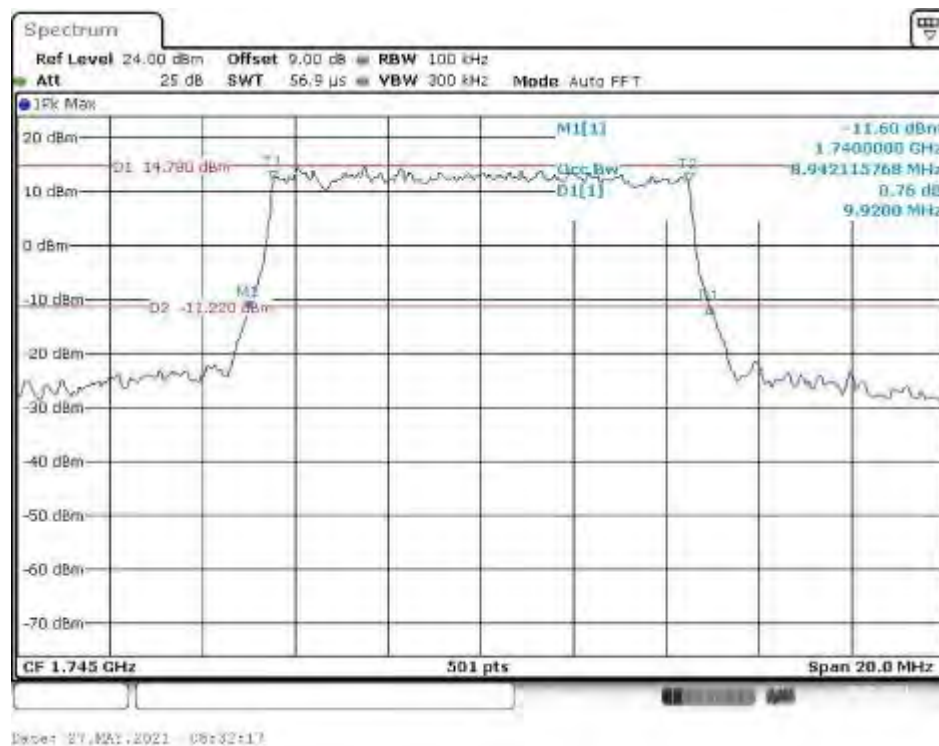
Band 66_10 MHz_Low_16QAM_RB50#0



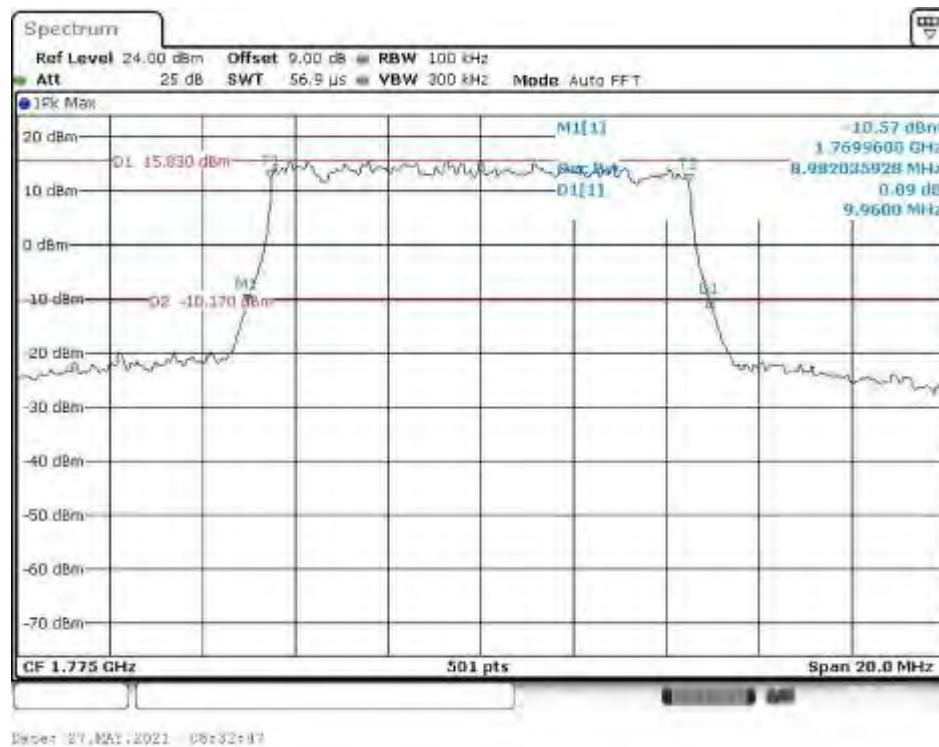
Band 66_10 MHz_Middle_QPSK_RB50#0



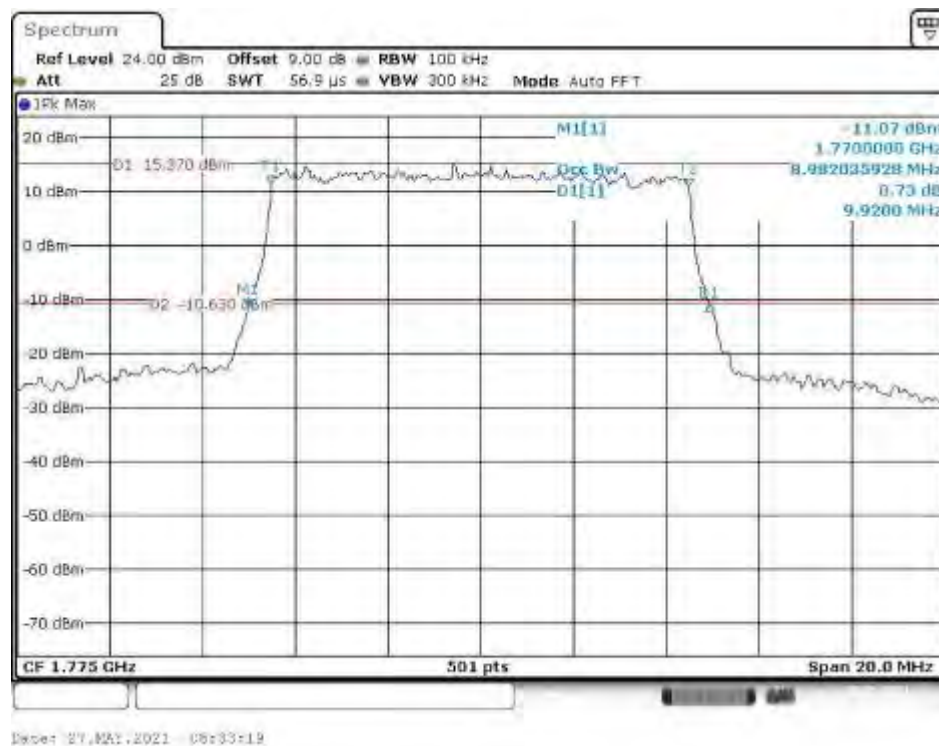
Band 66_10 MHz_Middle_16QAM_RB50#0



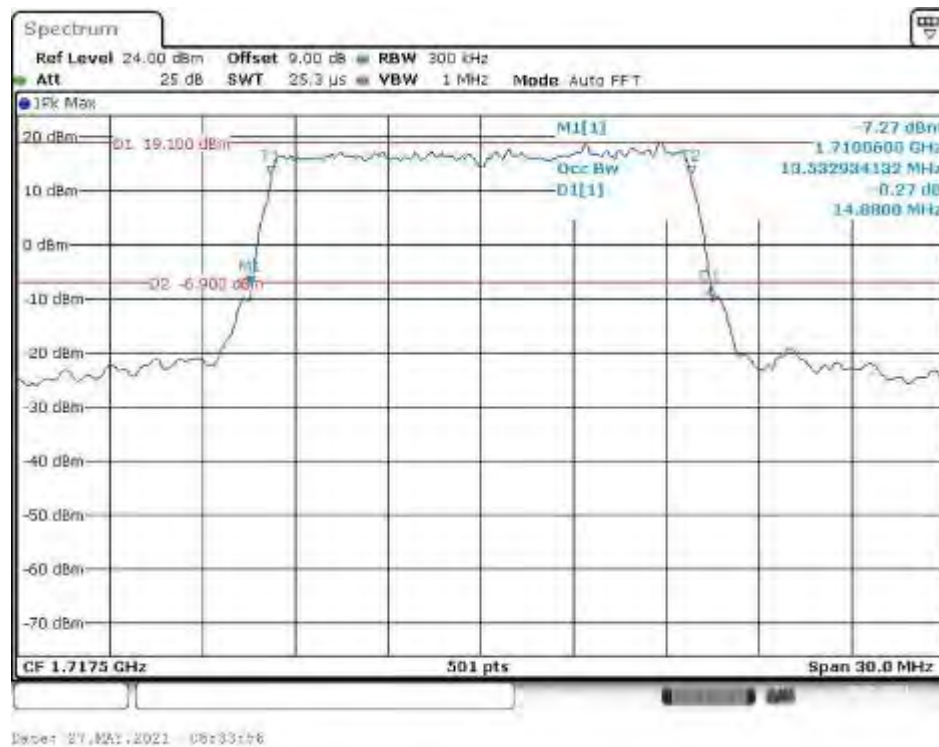
Band 66_10 MHz_High_QPSK_RB50#0



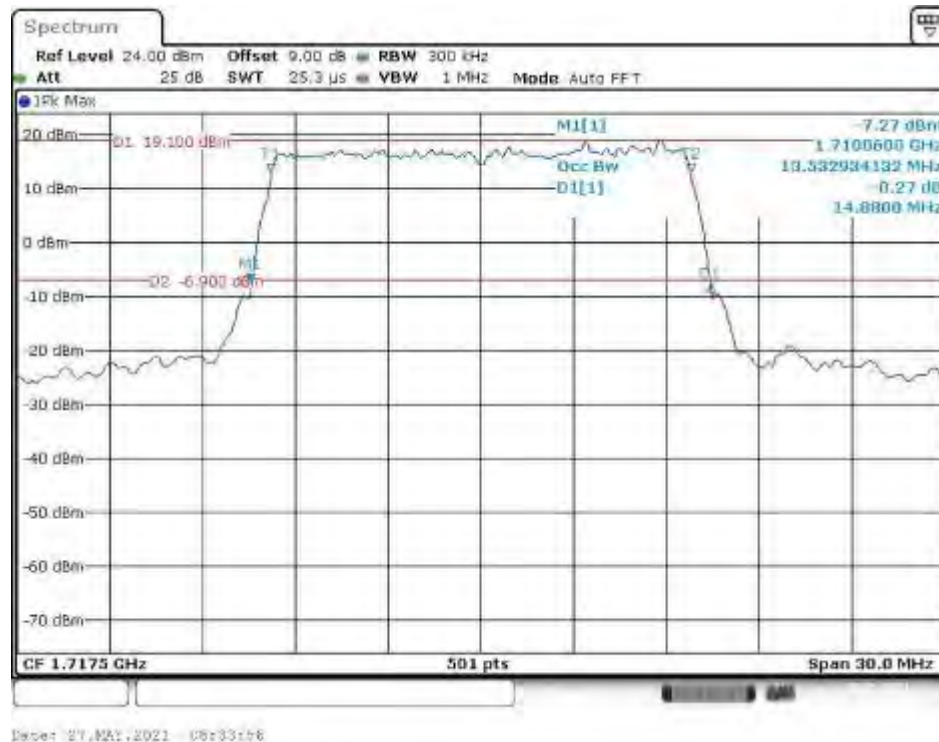
Band 66_10 MHz_High_16QAM_RB50#0



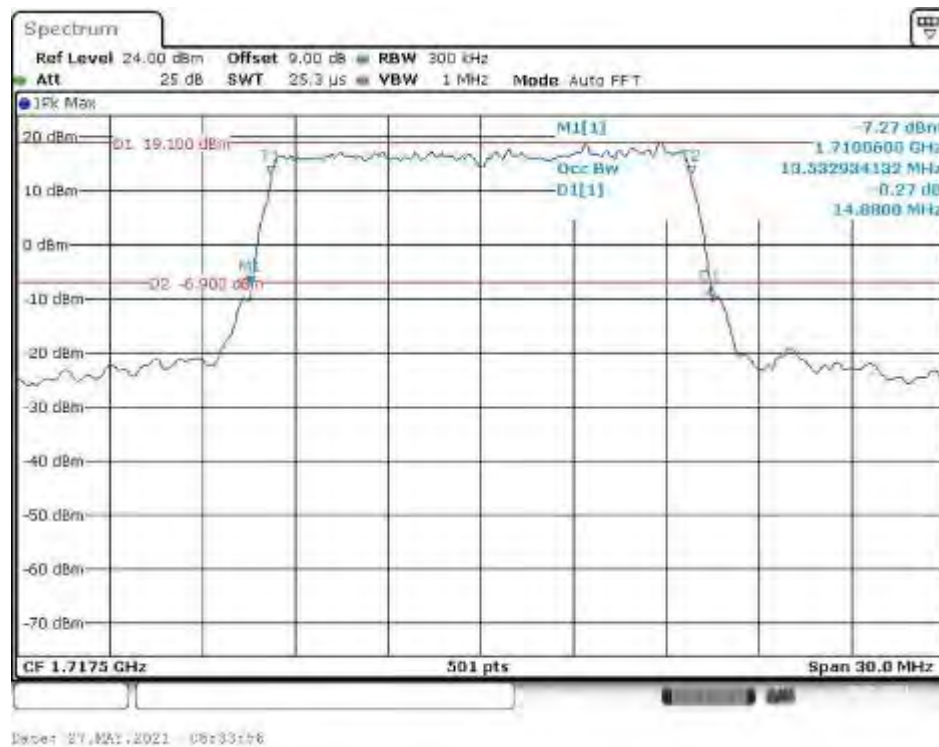
Band 66_15 MHz_Low_QPSK_RB75#0



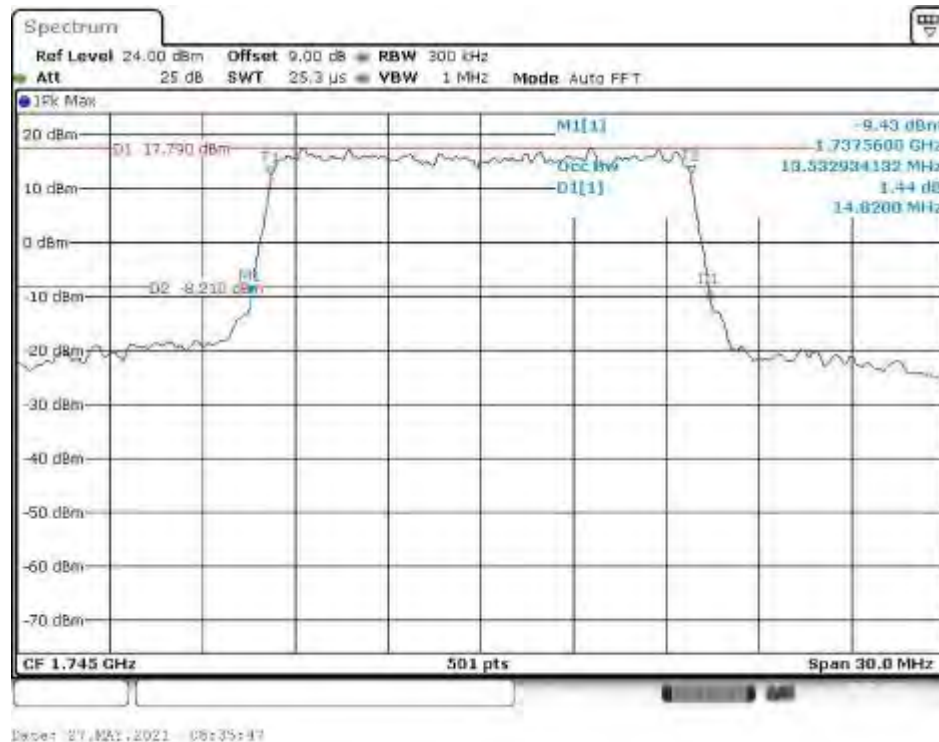
Band 66_15 MHz_Low_16QAM_RB75#0



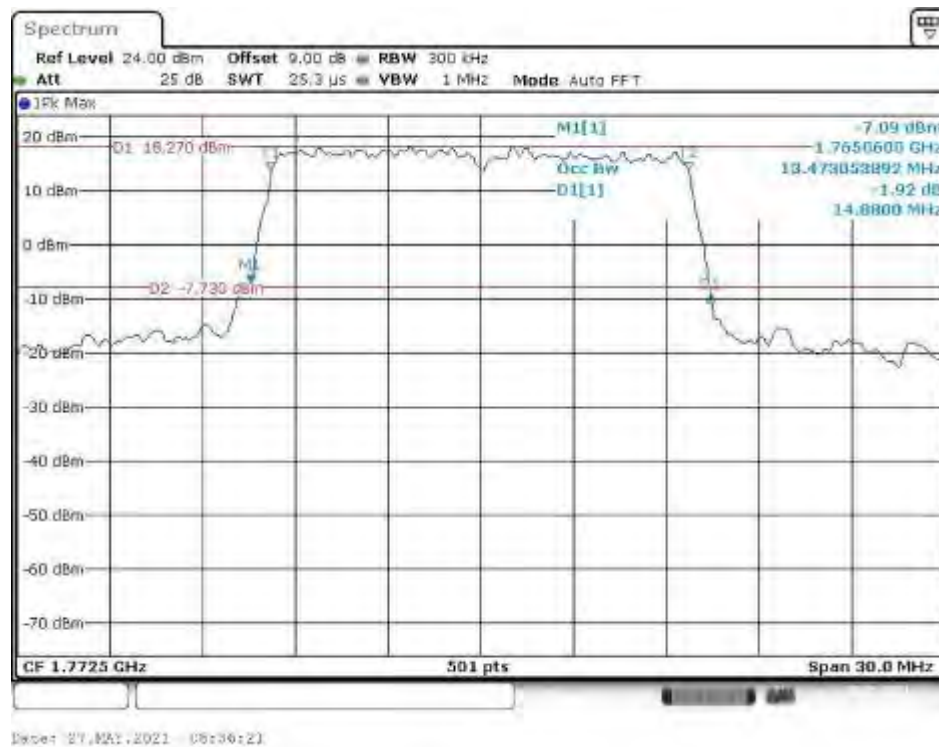
Band 66_15 MHz_Middle_QPSK_RB75#0



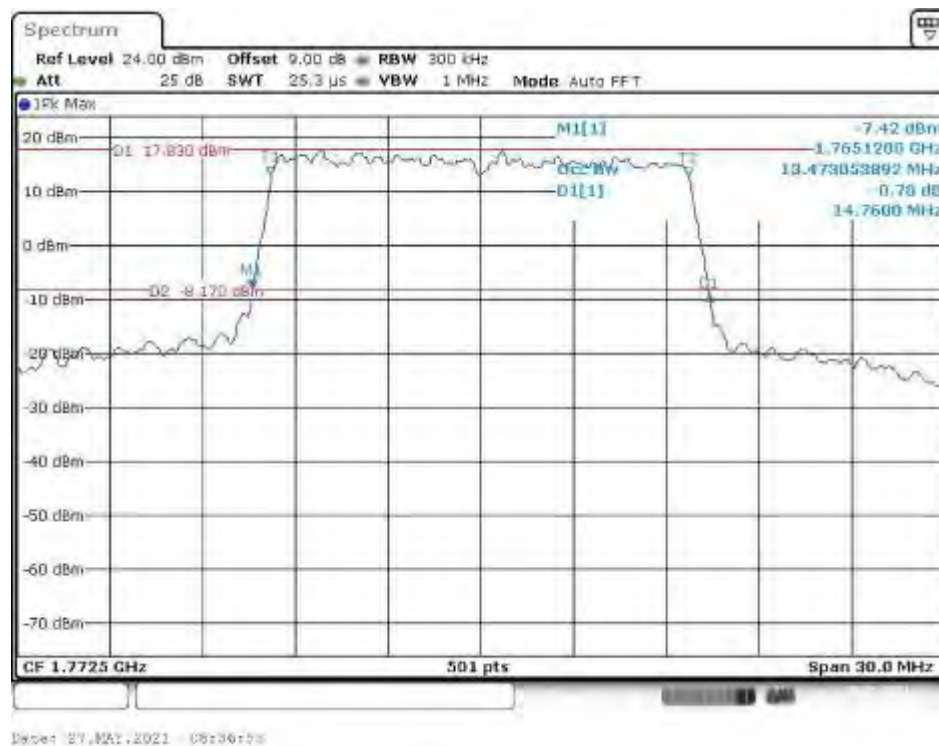
Band 66_15 MHz_Middle_16QAM_RB75#0



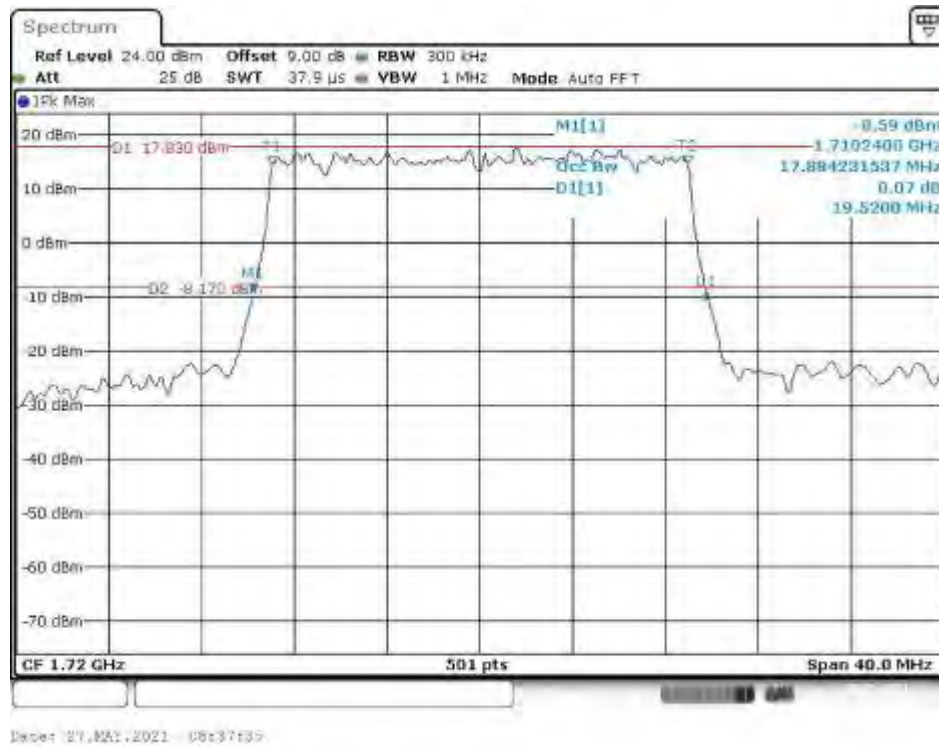
Band 66_15 MHz_High_QPSK_RB75#0



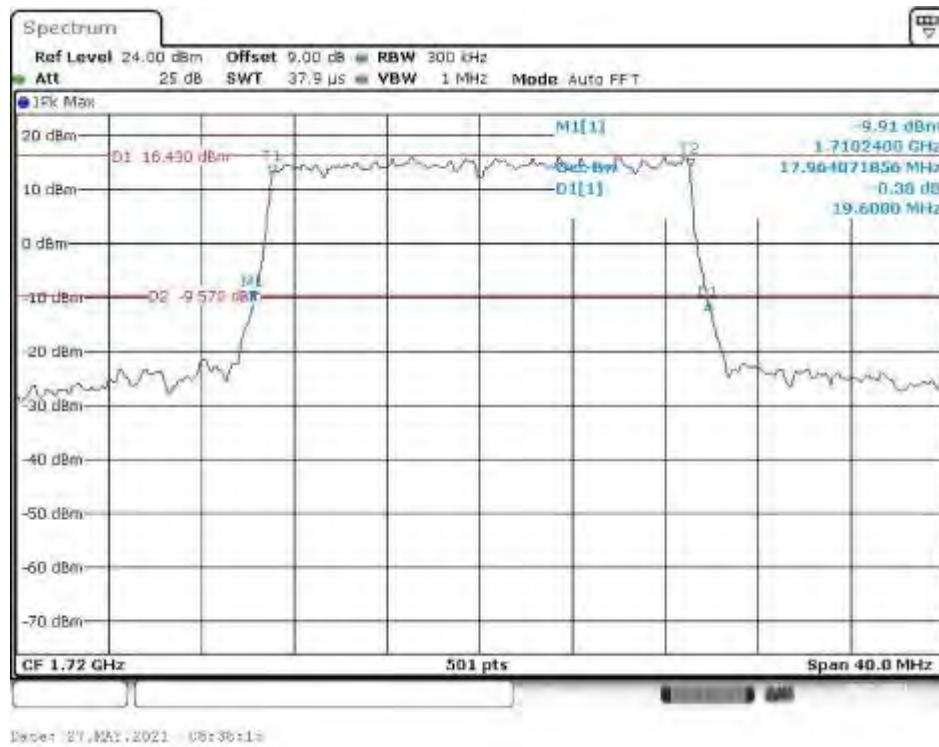
Band 66_15 MHz_High_16QAM_RB75#0



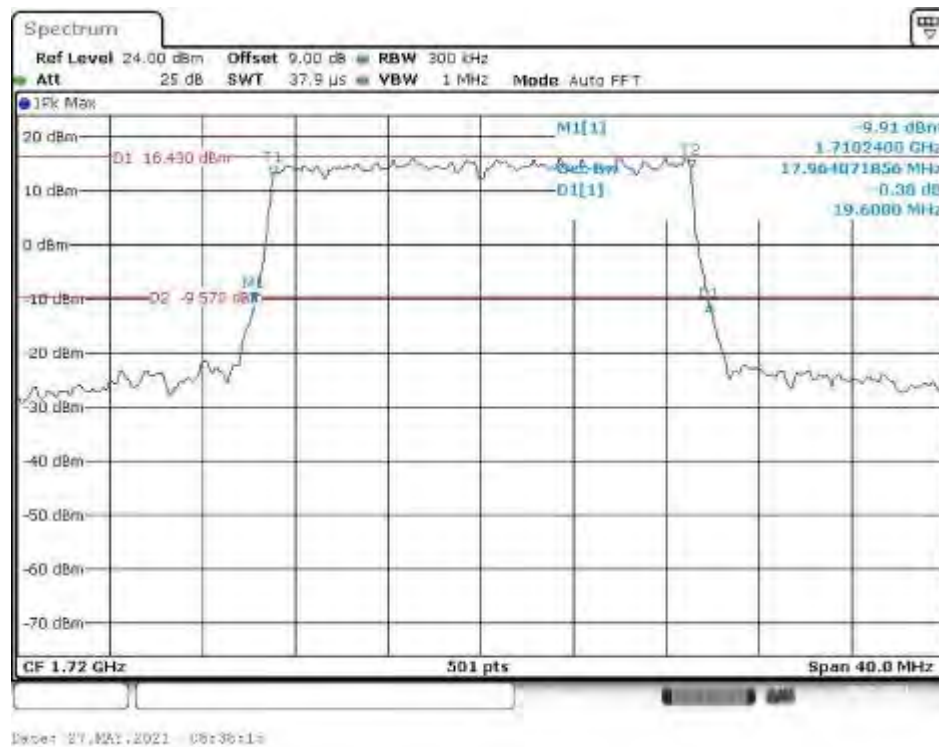
Band 66_20 MHz_Low_QPSK_RB100#0



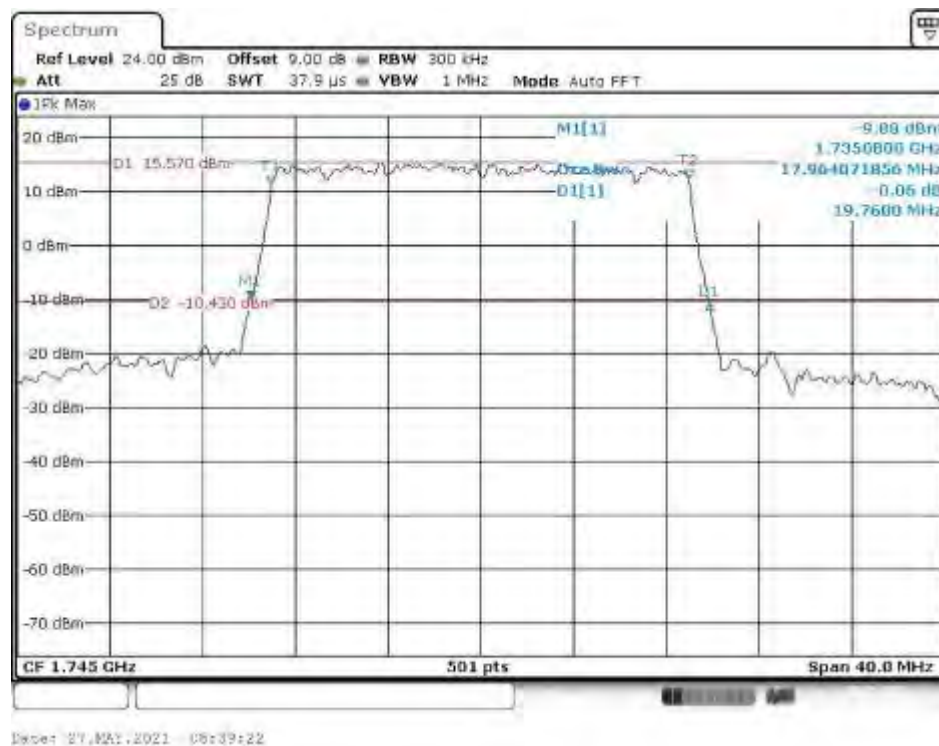
Band 66_20 MHz_Low_16QAM_RB100#0



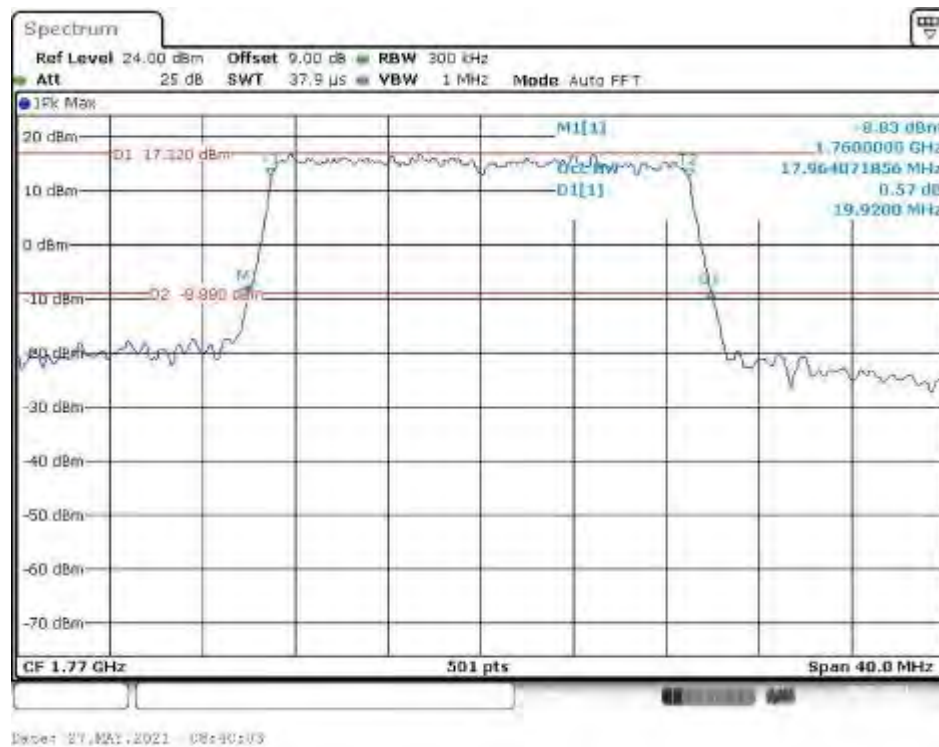
Band 66_20 MHz_Middle_QPSK_RB100#0



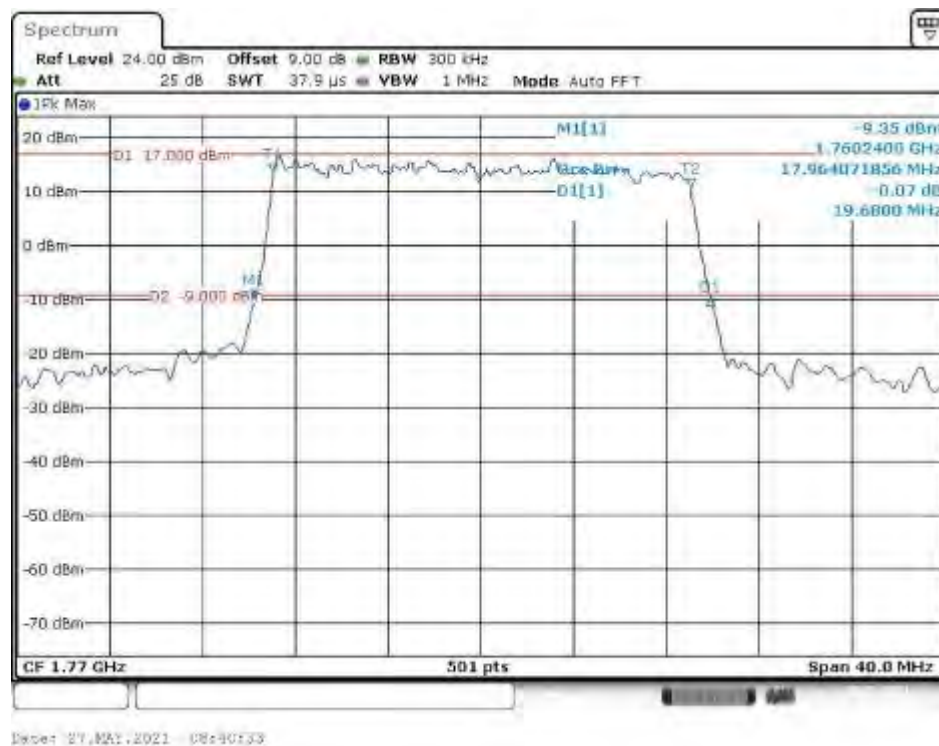
Band 66_20 MHz_Middle_16QAM_RB100#0



Band 66_20 MHz_High_QPSK_RB100#0



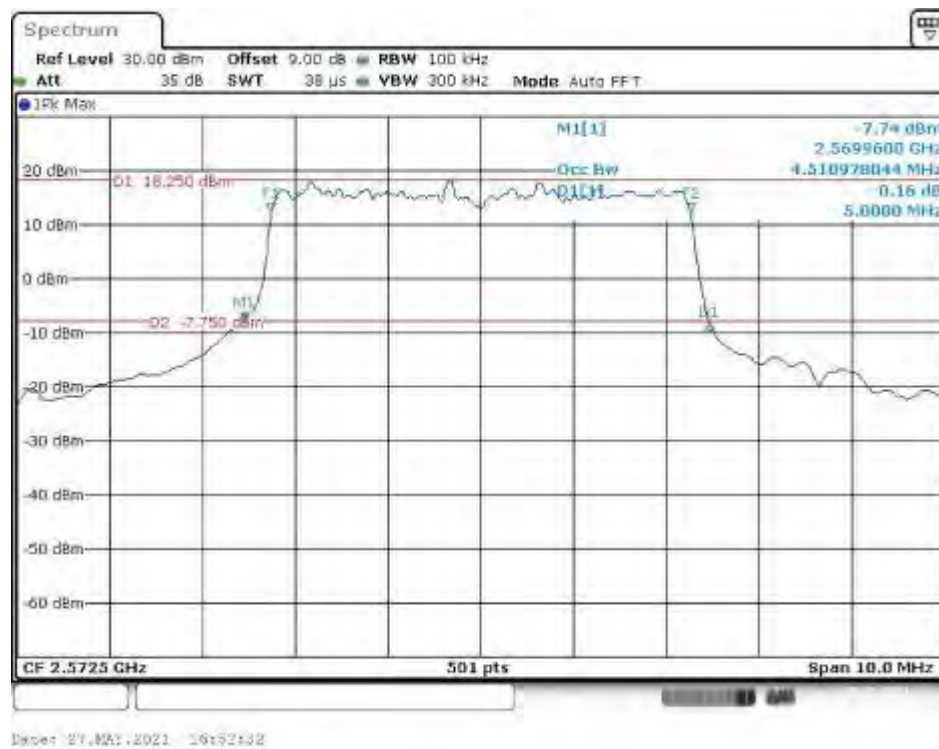
Band 66_20 MHz_High_16QAM_RB100#0



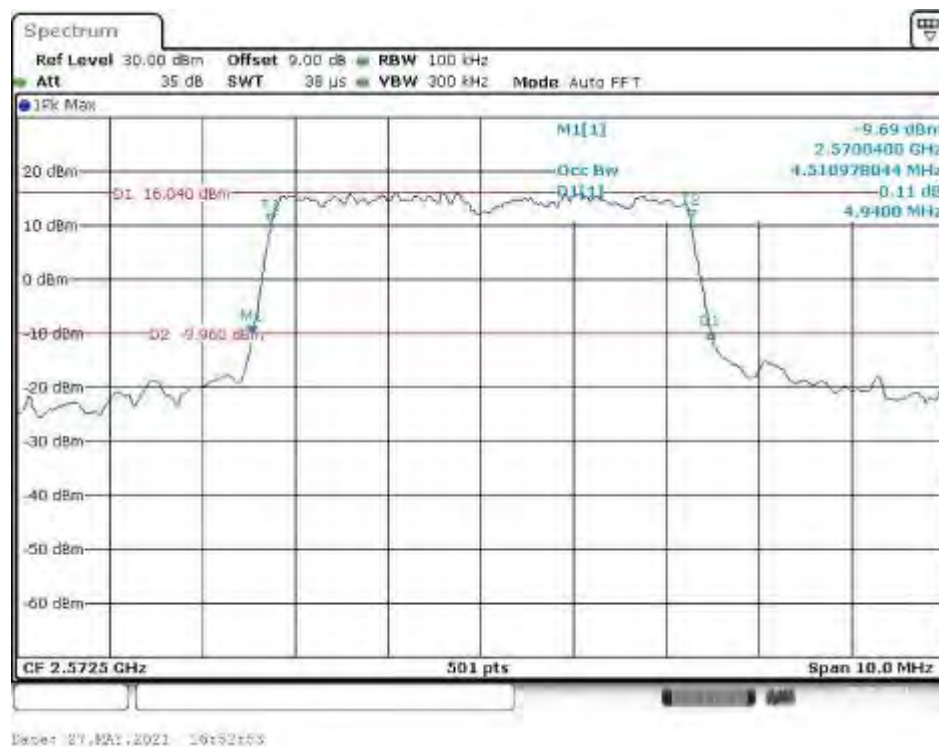
LTE Band 38:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
5 MHz	QPSK	4.511	5.000	4.511	4.960	4.511	4.940
	16QAM	4.511	4.940	4.511	5.060	4.491	4.940
10 MHz	QPSK	8.942	9.640	8.942	9.600	8.942	9.520
	16QAM	8.942	9.480	8.942	9.520	8.942	9.800
15 MHz	QPSK	13.533	14.580	13.533	14.580	13.413	14.700
	16QAM	13.473	14.580	13.533	14.640	13.533	14.760
20 MHz	QPSK	17.884	19.120	17.884	19.280	17.884	19.200
	16QAM	17.964	19.360	17.964	19.360	17.884	19.200

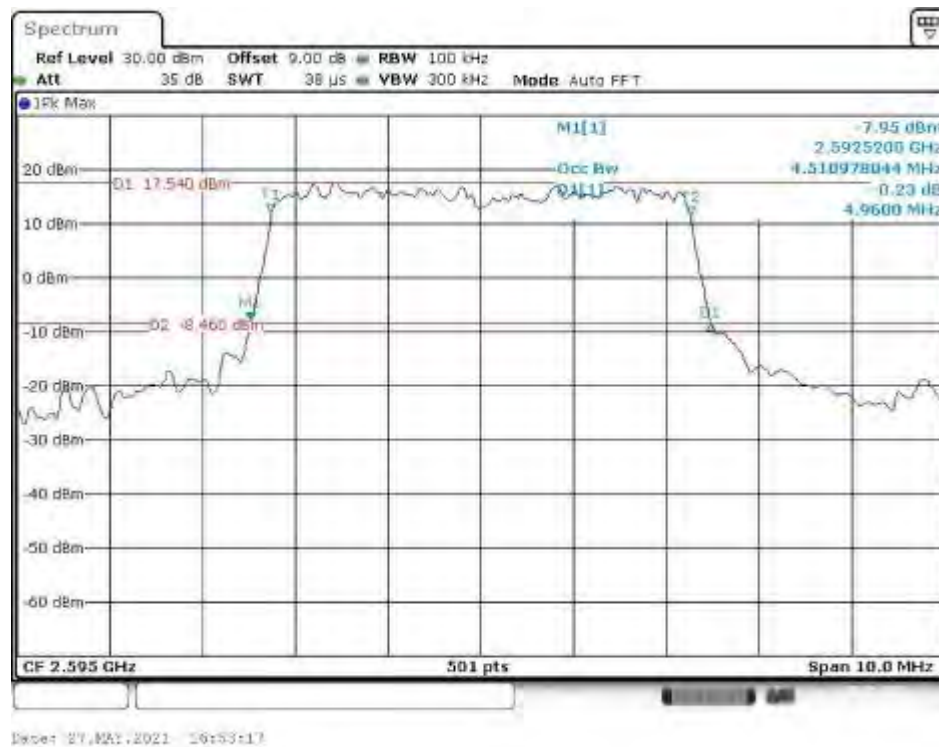
Band 38_5 MHz_Low_QPSK_RB25#0



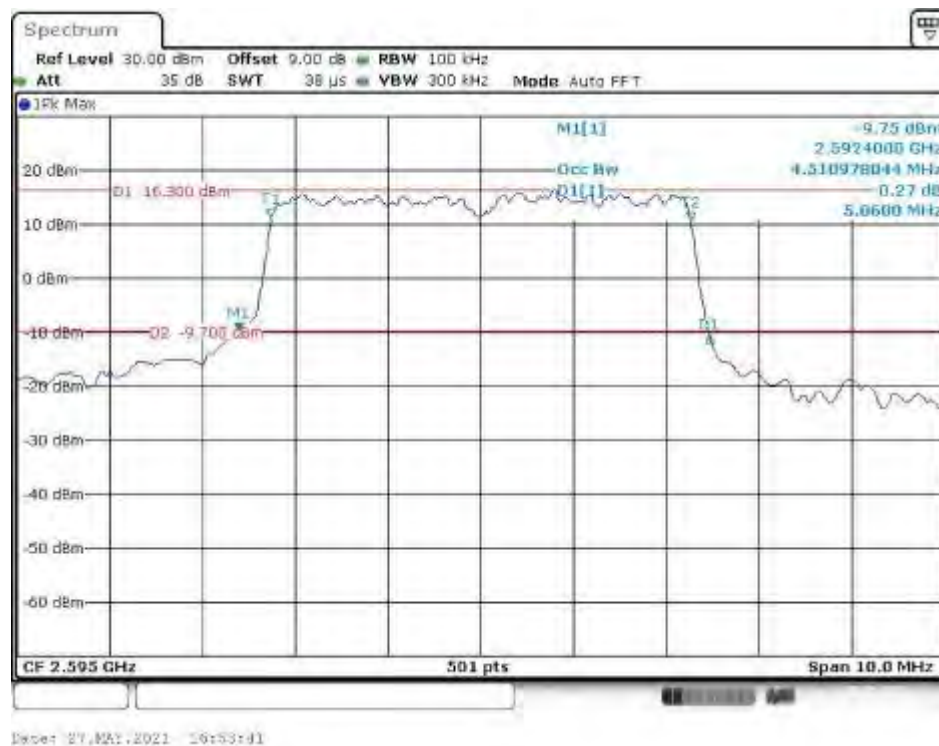
Band 38_5 MHz_Low_16QAM_RB25#0



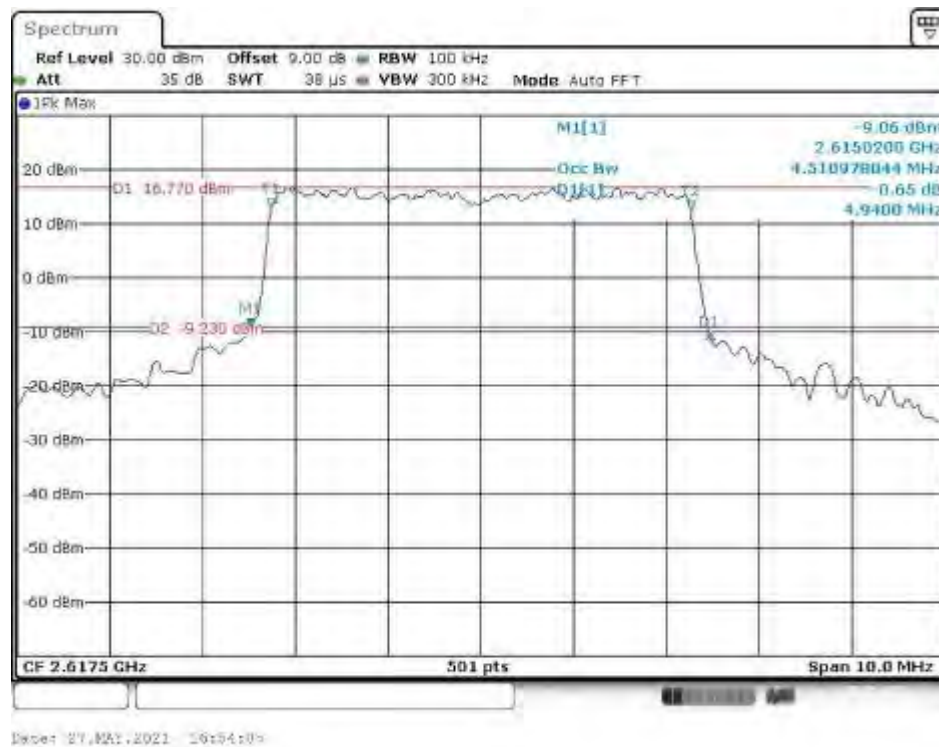
Band 38_5 MHz_Middle_QPSK_RB25#0



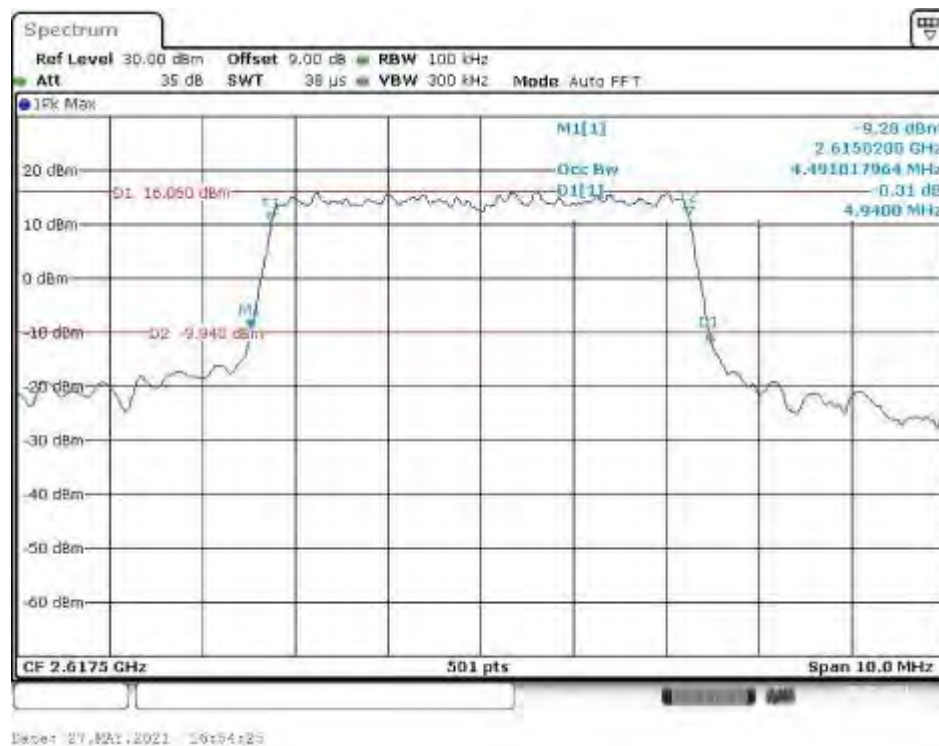
Band 38_5 MHz_Middle_16QAM_RB25#0



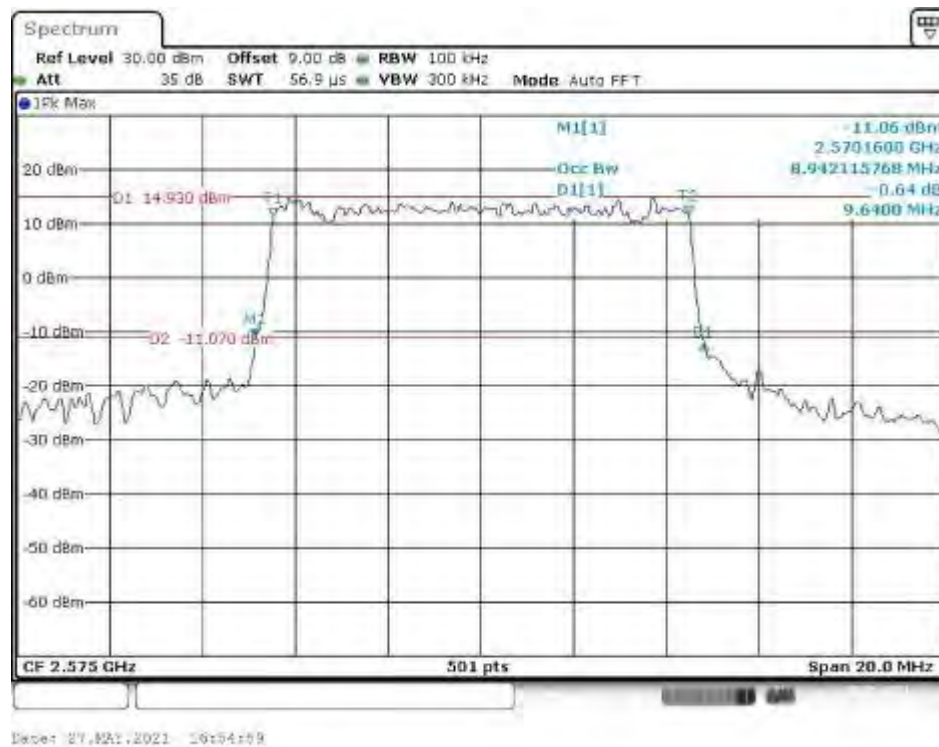
Band 38_5 MHz_High_QPSK_RB25#0



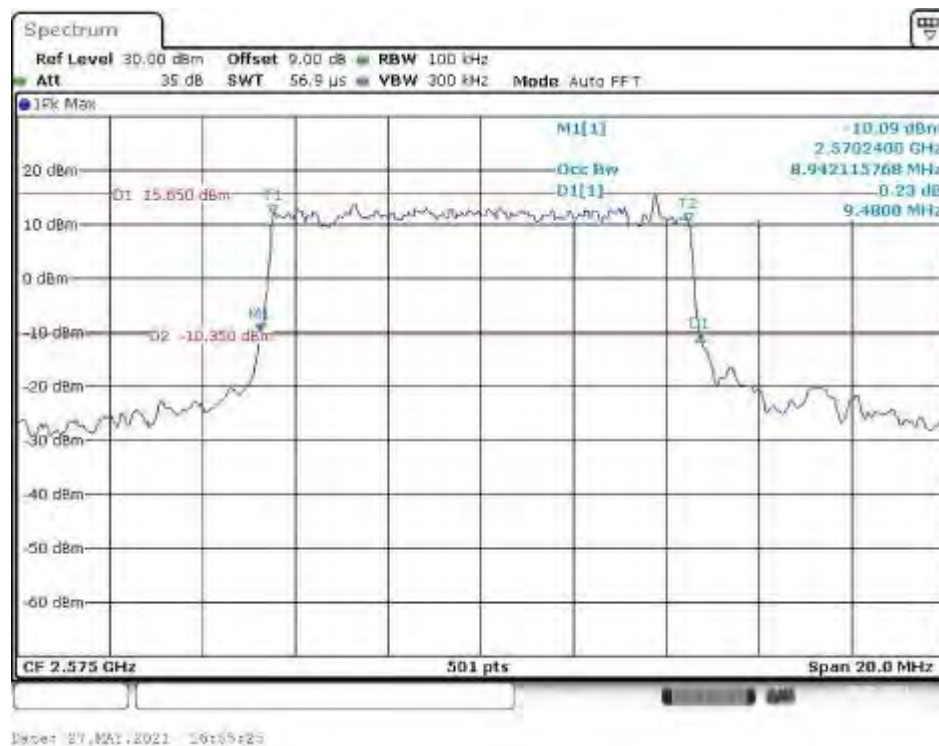
Band 38_5 MHz_High_16QAM_RB25#0



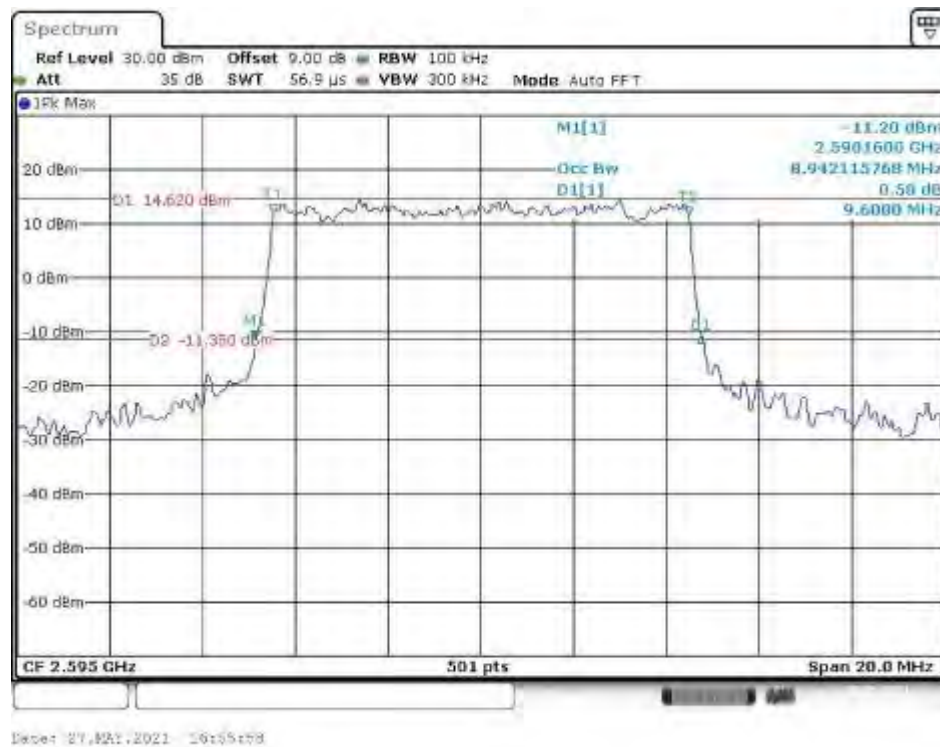
Band 38_10 MHz_Low_QPSK_RB50#0



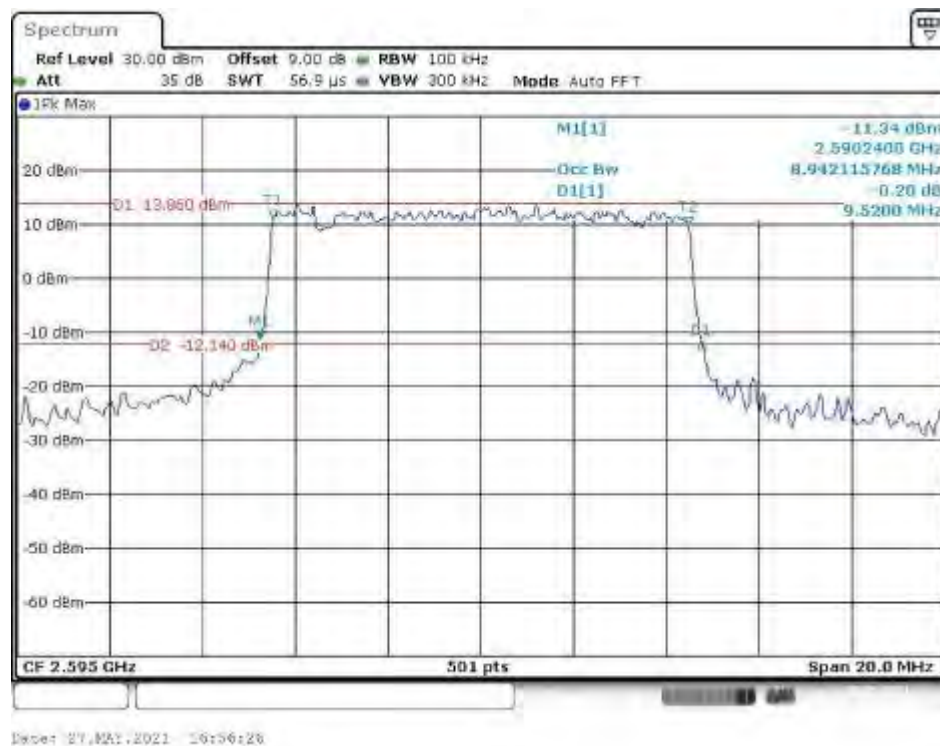
Band 38_10 MHz_Low_16QAM_RB50#0



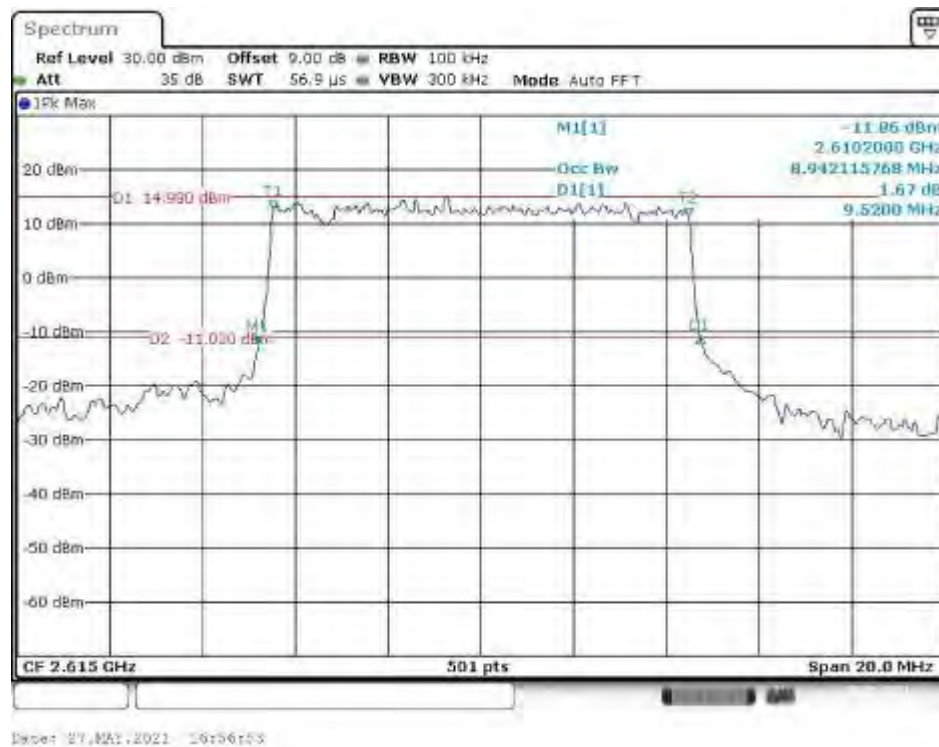
Band 38_10 MHz_Middle_QPSK_RB50#0



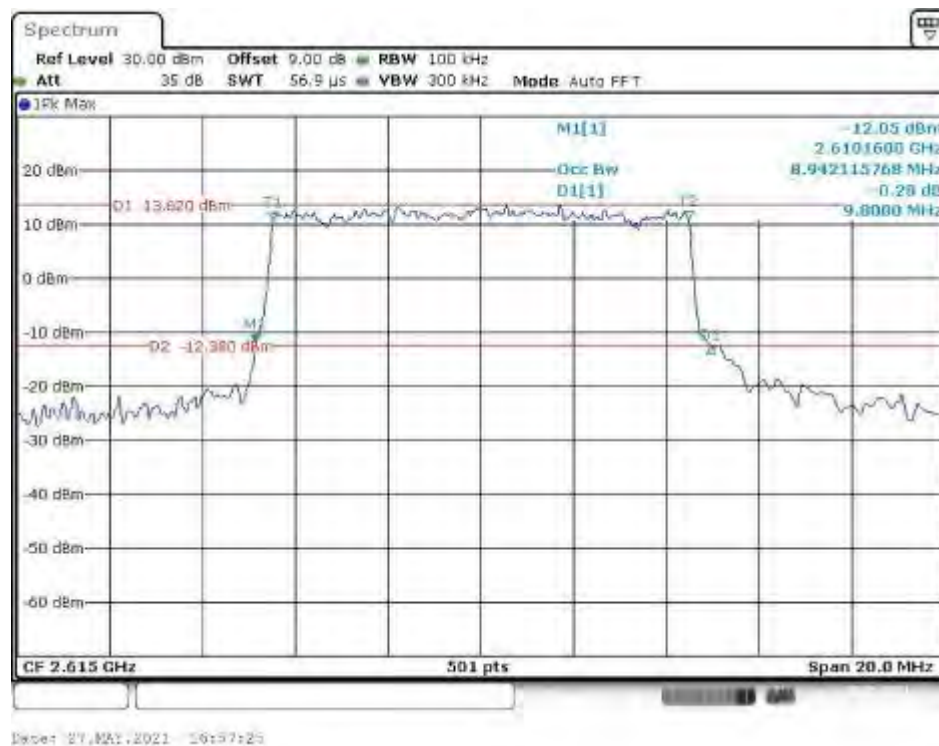
Band 38_10 MHz_Middle_16QAM_RB50#0



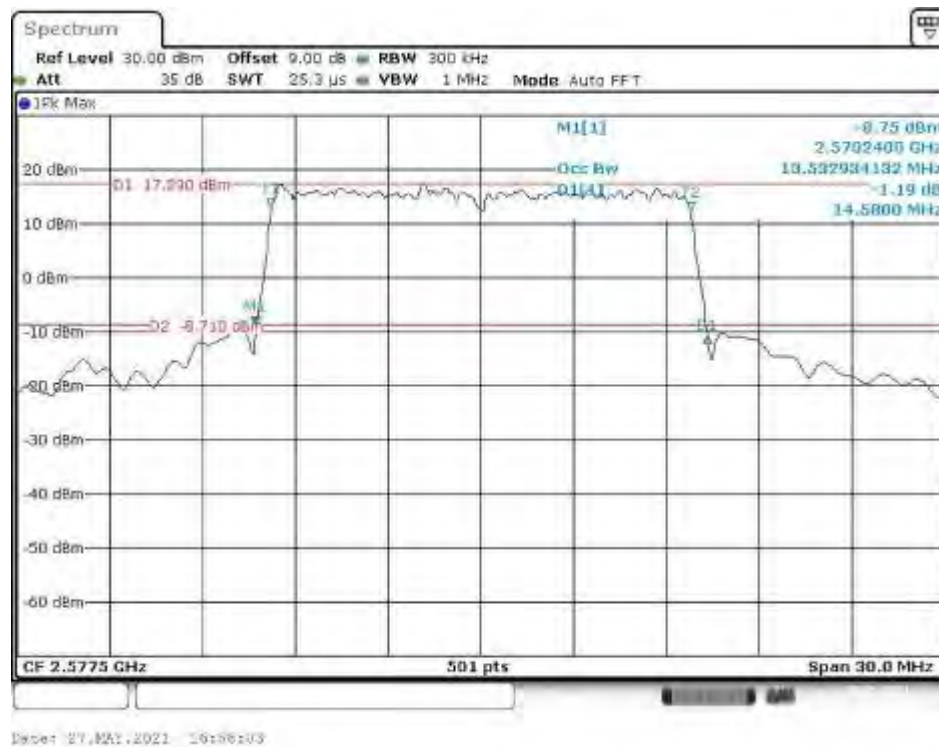
Band 38_10 MHz_High_QPSK_RB50#0



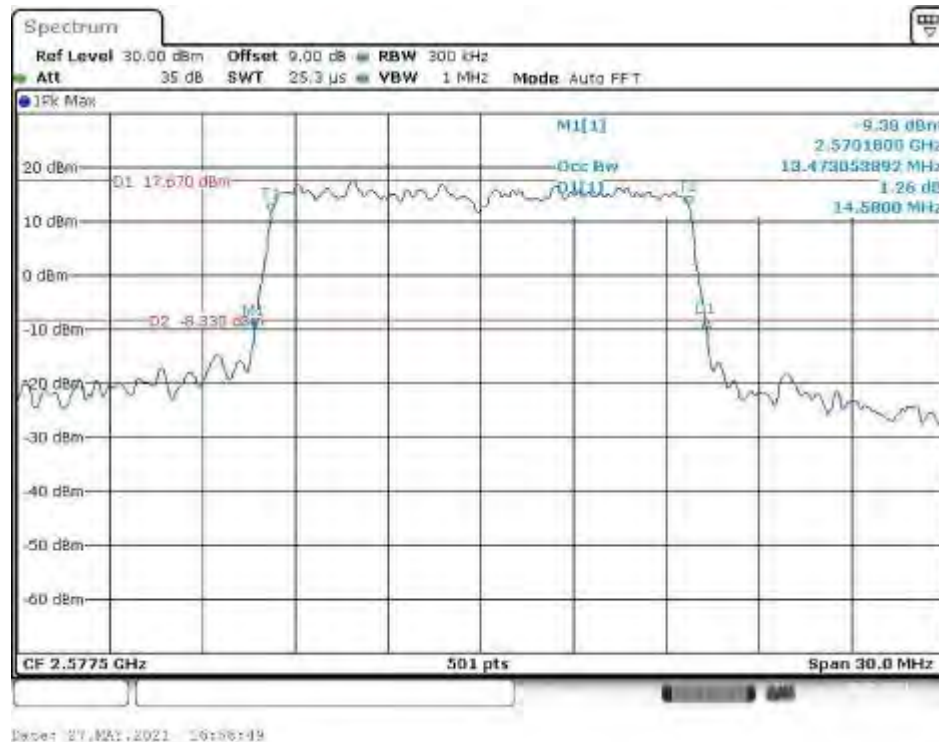
Band 38_10 MHz_High_16QAM_RB50#0



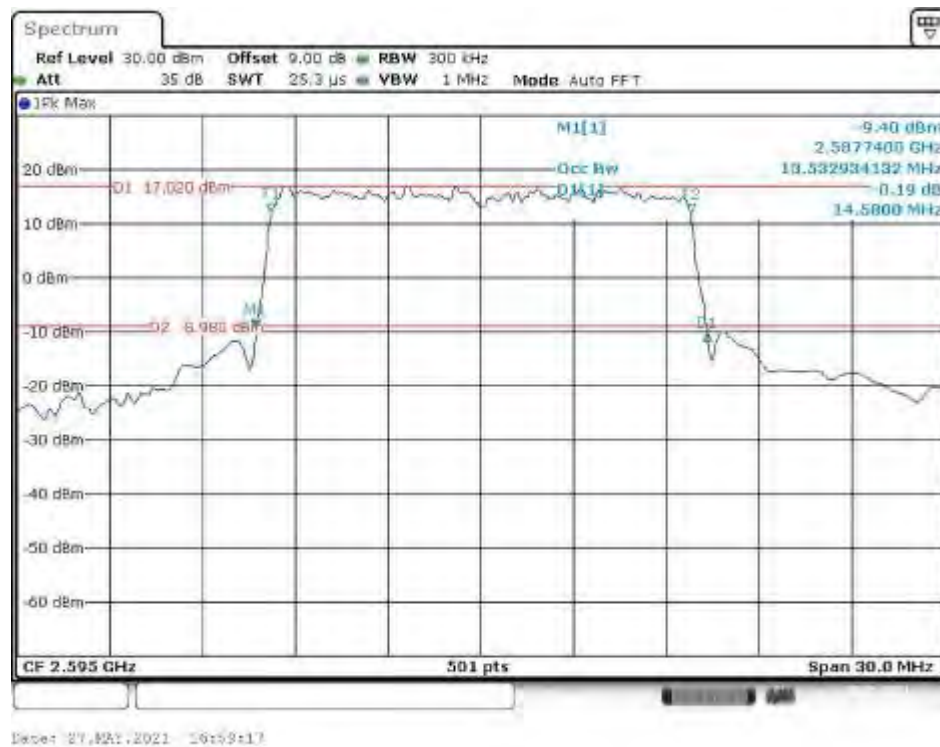
Band 38_15 MHz_Low_QPSK_RB75#0



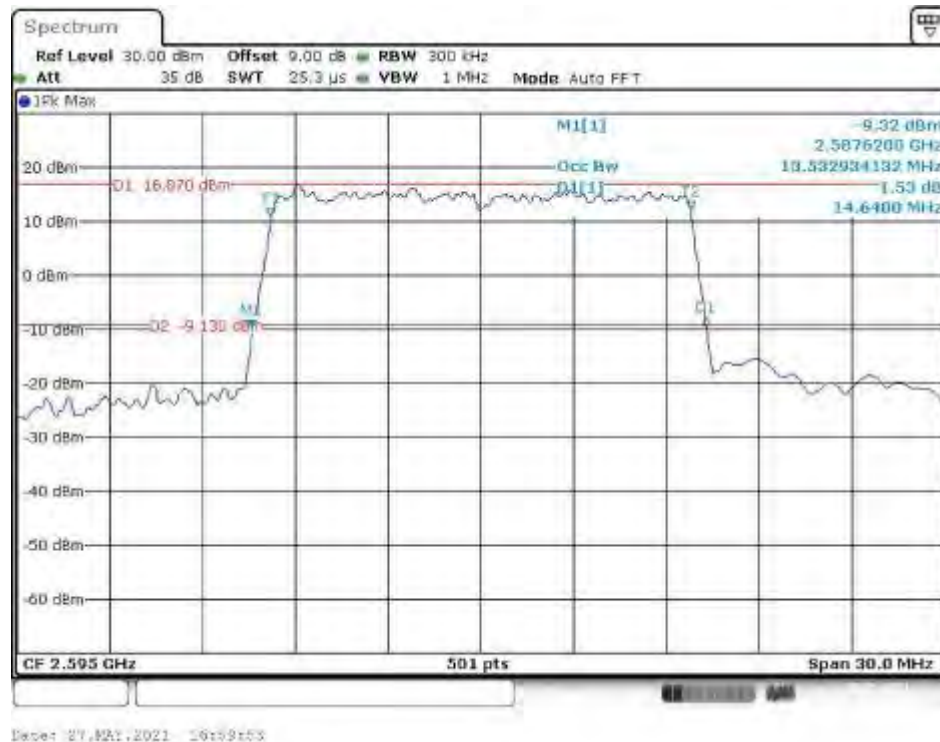
Band 38_15 MHz_Low_16QAM_RB75#0



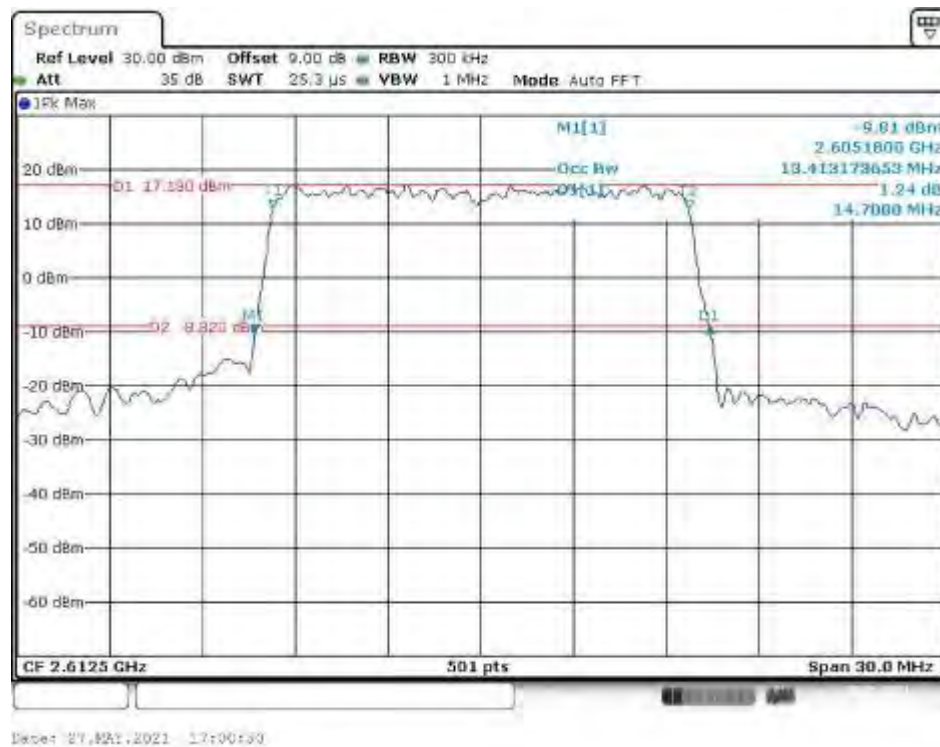
Band 38_15 MHz_Middle_QPSK_RB75#0



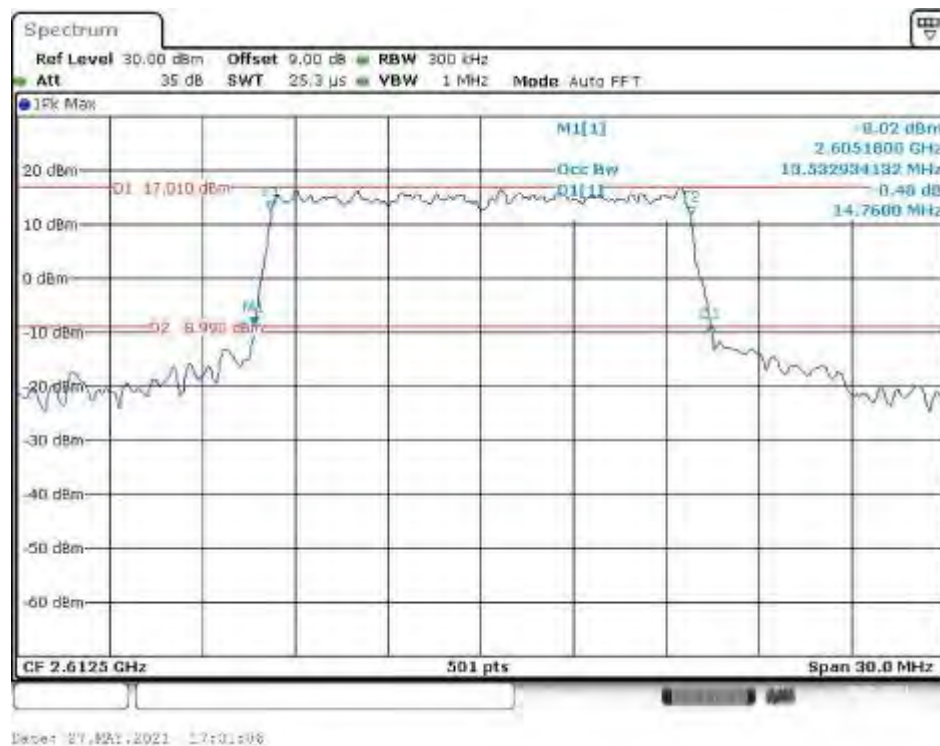
Band 38_15 MHz_Middle_16QAM_RB75#0



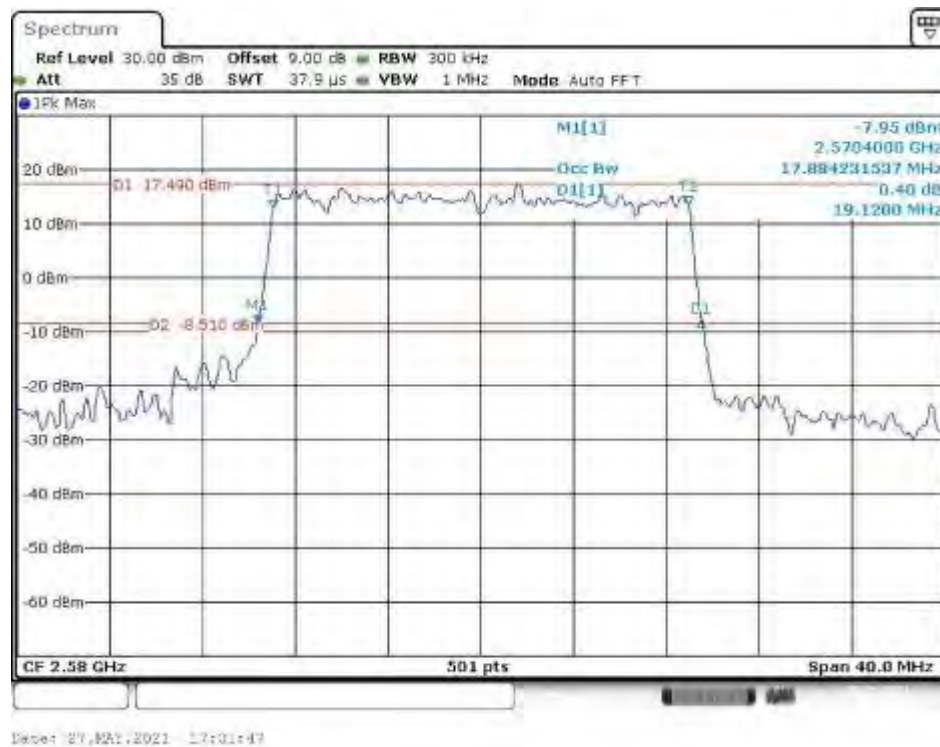
Band 38_15 MHz_High_QPSK_RB75#0



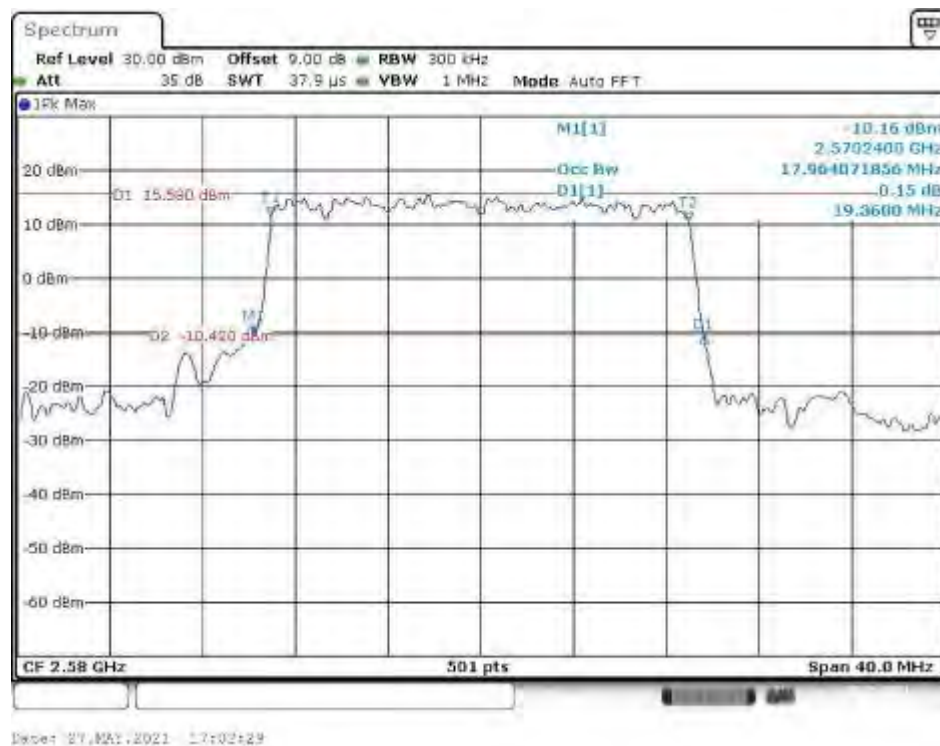
Band 38_15 MHz_High_16QAM_RB75#0



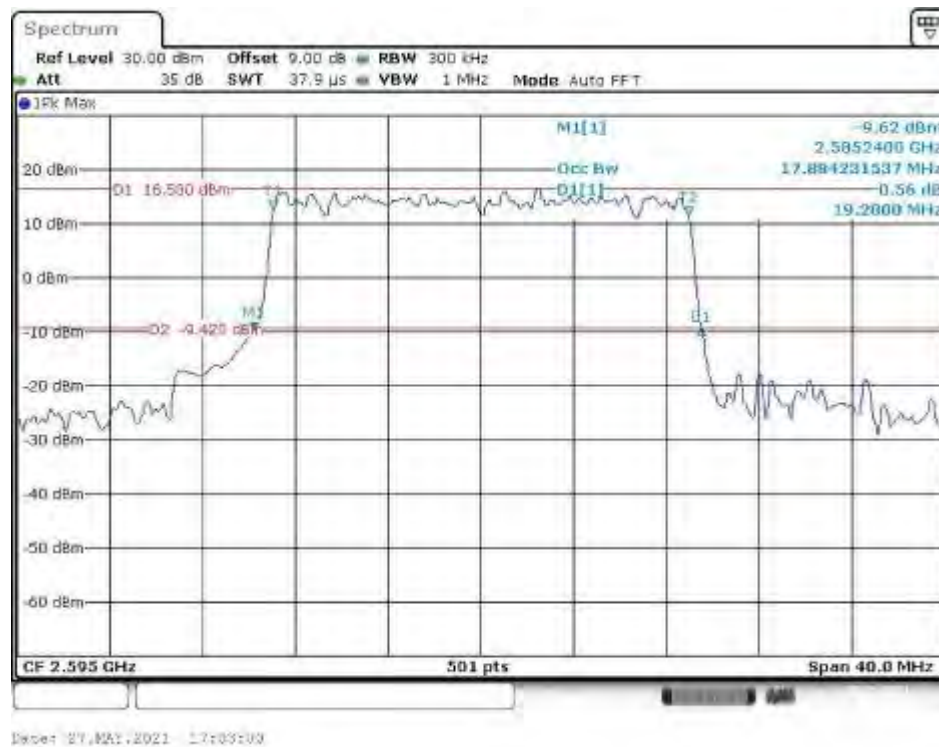
Band 38_20 MHz_Low_QPSK_RB100#0



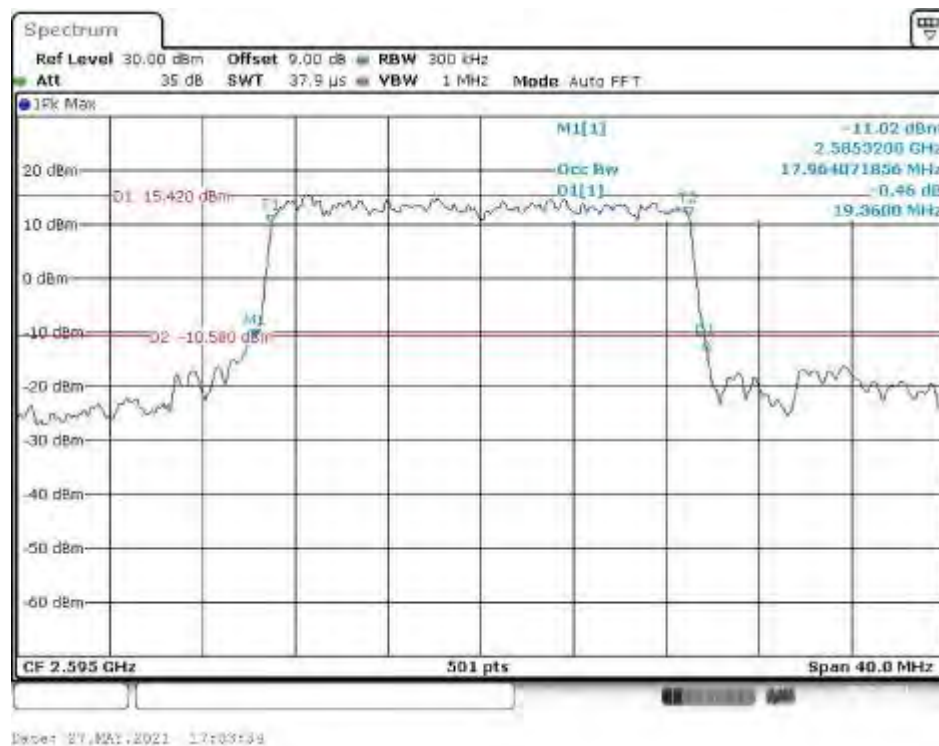
Band 38_20 MHz_Low_16QAM_RB100#0



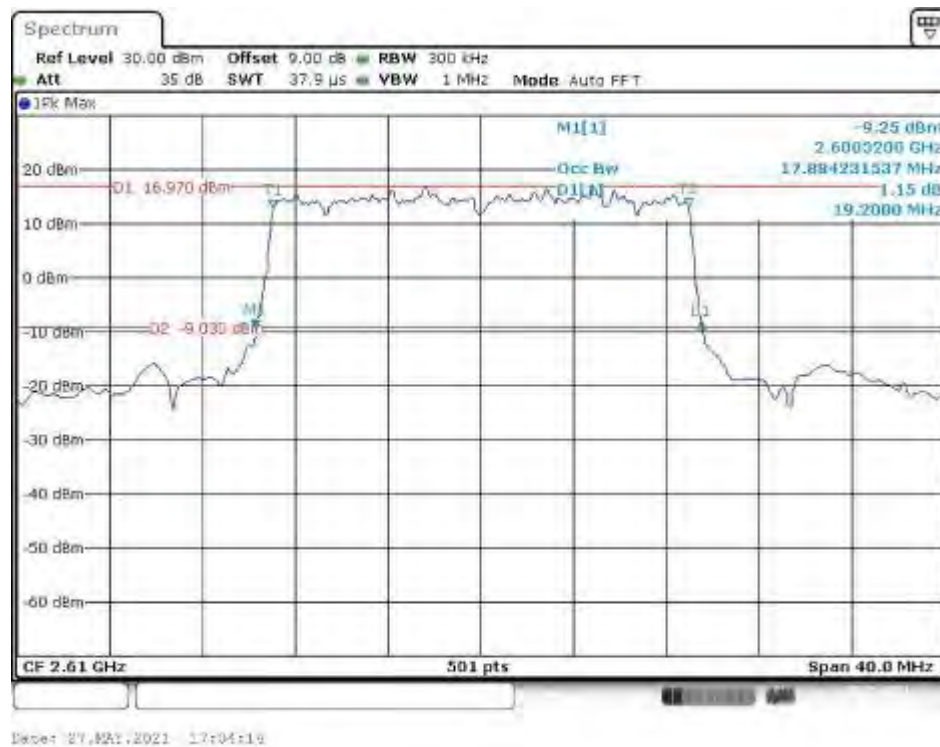
Band 38_20 MHz_Middle_QPSK_RB100#0



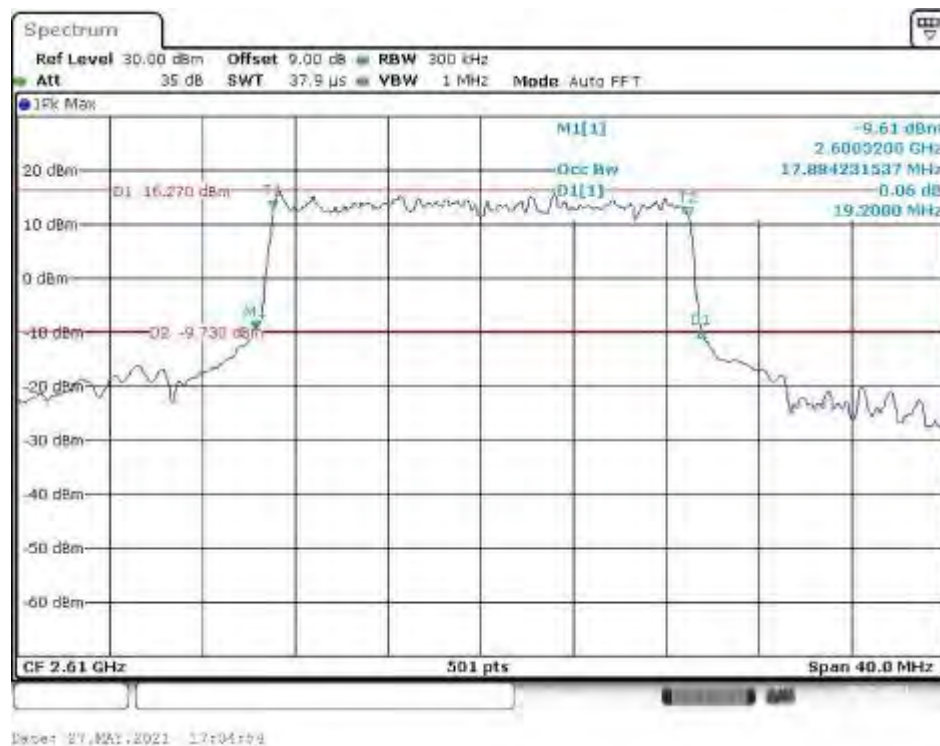
Band 38_20 MHz_Middle_16QAM_RB100#0



Band 38_20 MHz_High_QPSK_RB100#0



Band 38_20 MHz_High_16QAM_RB100#0



LTE Band 40 Lower

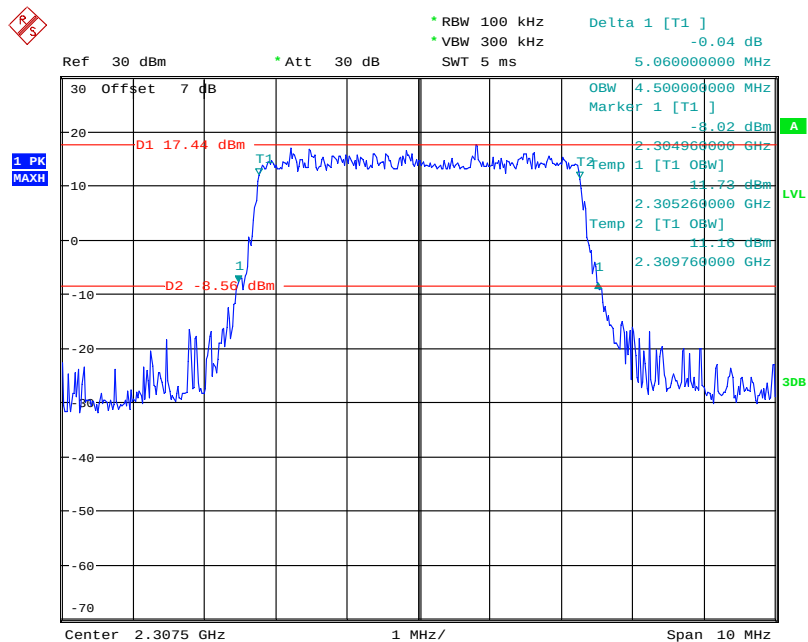
Bandwidth (MHz)	Modulation	Channel	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
5	QPSK	Low	4.500	5.060
		Middle	4.520	5.100
		High	4.540	5.240
	16QAM	Low	4.520	5.260
		Middle	4.520	5.140
		High	4.540	5.180
10	QPSK	Low	/	/
		Middle	9.000	9.960
		High	/	/
	16QAM	Low	/	/
		Middle	8.960	9.680
		High	/	/

LTE Band 40 Upper

Bandwidth (MHz)	Modulation	Channel	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
5	QPSK	Low	4.520	5.220
		Middle	4.520	5.240
		High	4.520	5.180
	16QAM	Low	4.520	5.300
		Middle	4.520	5.140
		High	4.520	5.260
10	QPSK	Low	/	/
		Middle	9.000	10.000
		High	/	/
	16QAM	Low	/	/
		Middle	9.000	9.680
		High		

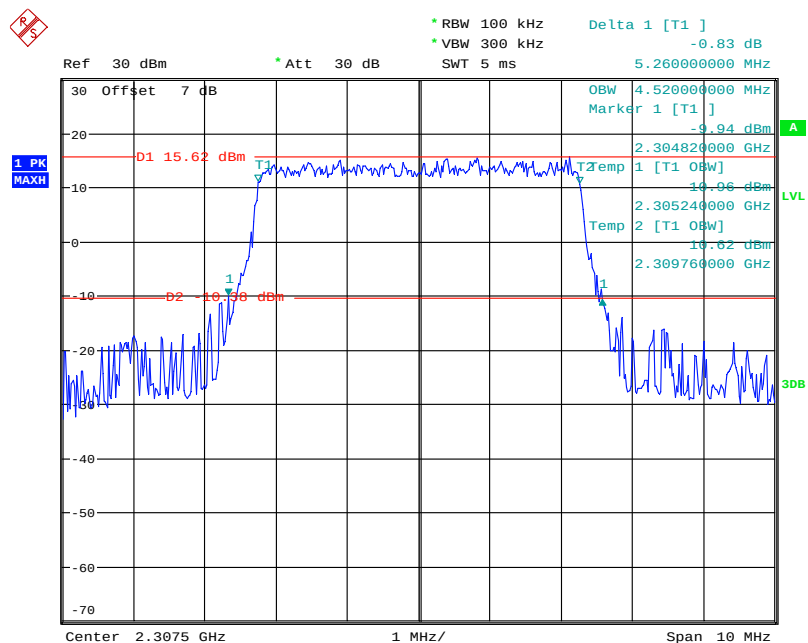
LTE Band 40 Lower

Band 40_5 MHz_Low_QPSK_RB25#0



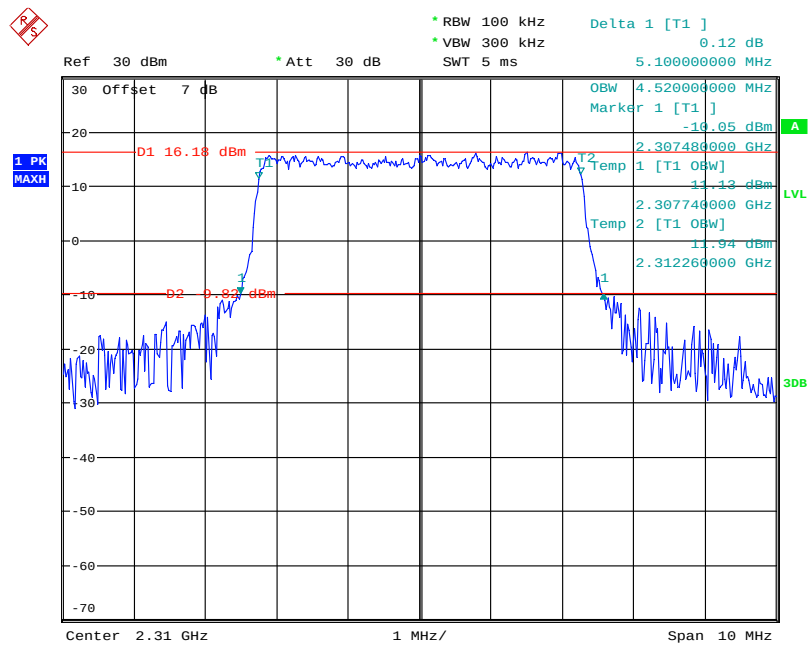
Date: 28.MAY.2021 15:58:02

Band 40_5 MHz_Low_16QAM_RB25#0



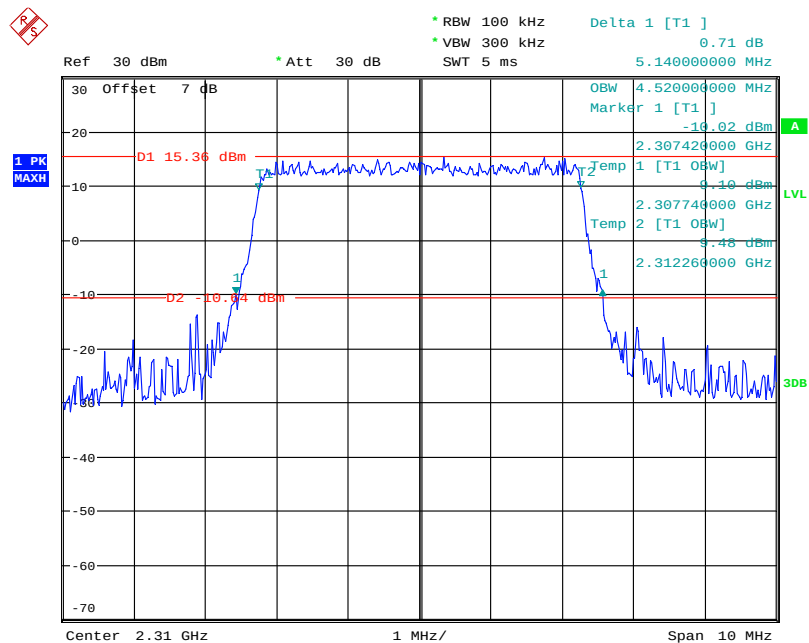
Date: 28.MAY.2021 15:58:24

Band 40_5 MHz_Middle_QPSK_RB25#0



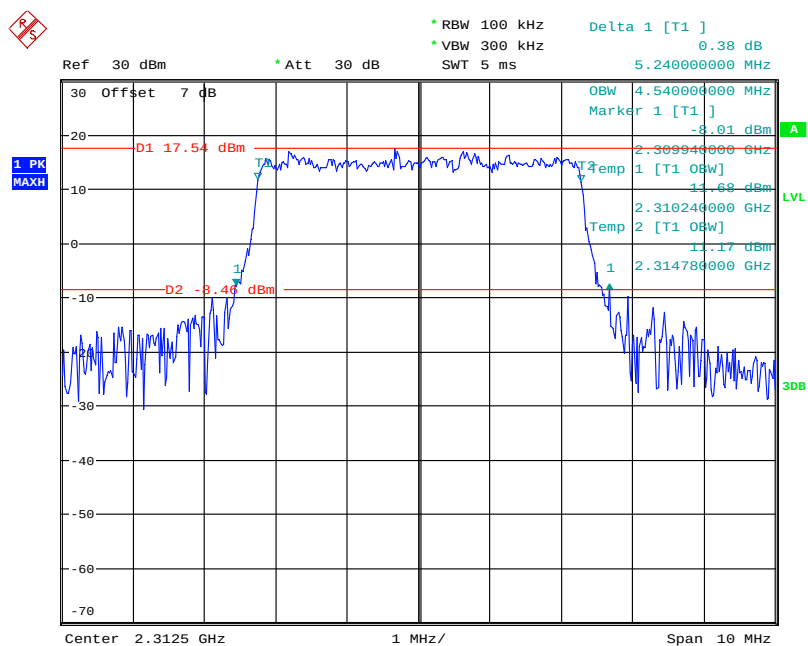
Date: 28.MAY.2021 15:59:04

Band 40_5 MHz_Middle_16QAM_RB25#0



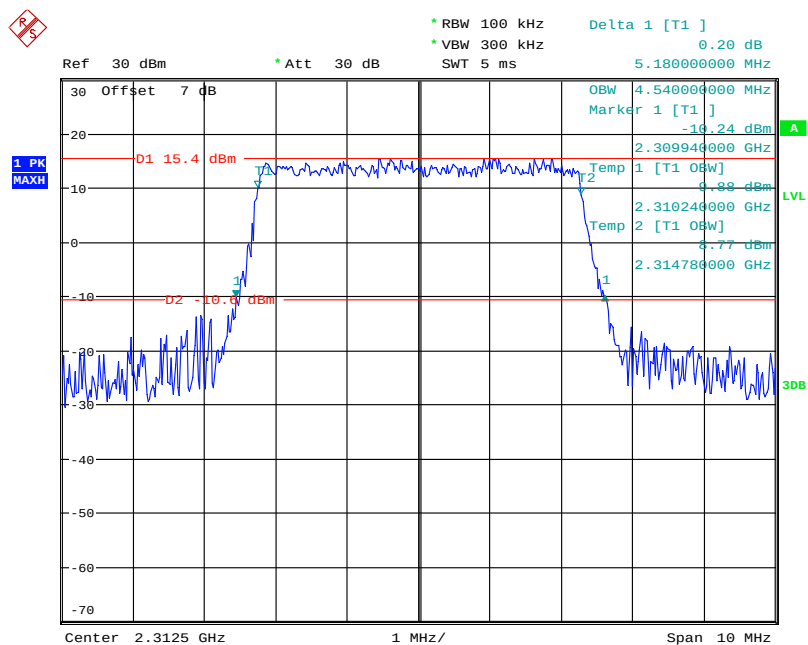
Date: 28.MAY.2021 15:59:27

Band 40_5 MHz_High_QPSK_RB25#0



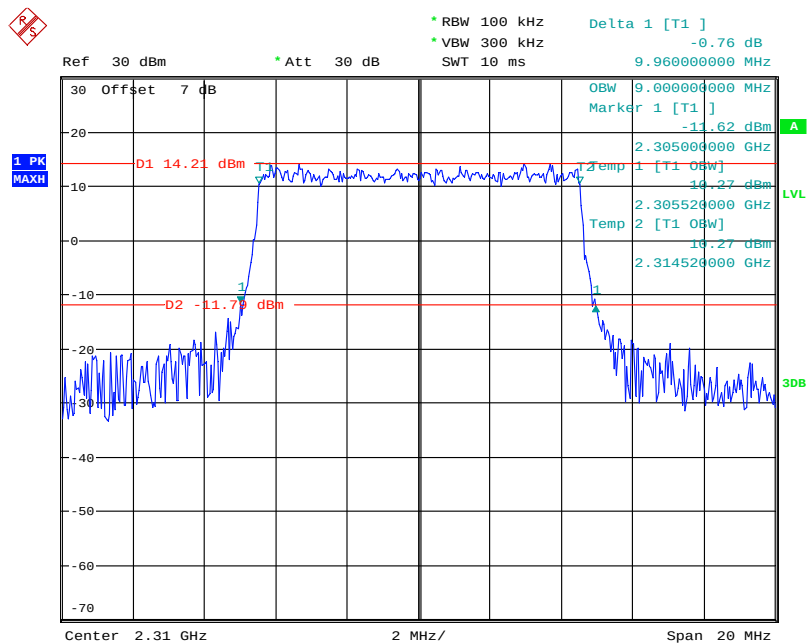
Date: 28.MAY.2021 16:00:11

Band 40_5 MHz_High_16QAM_RB25#0



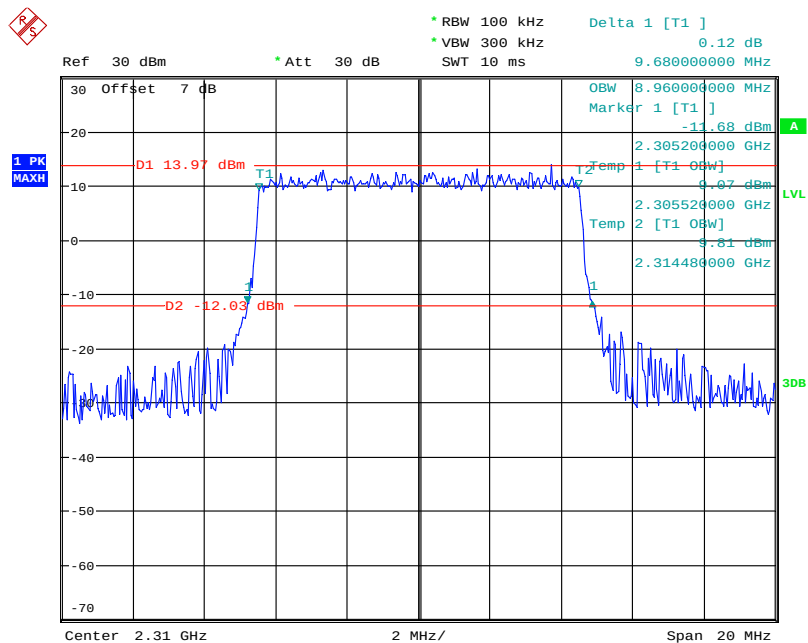
Date: 28.MAY.2021 16:00:39

Band 40_10 MHz_Middle_QPSK_RB50#0



Date: 28.MAY.2021 16:01:21

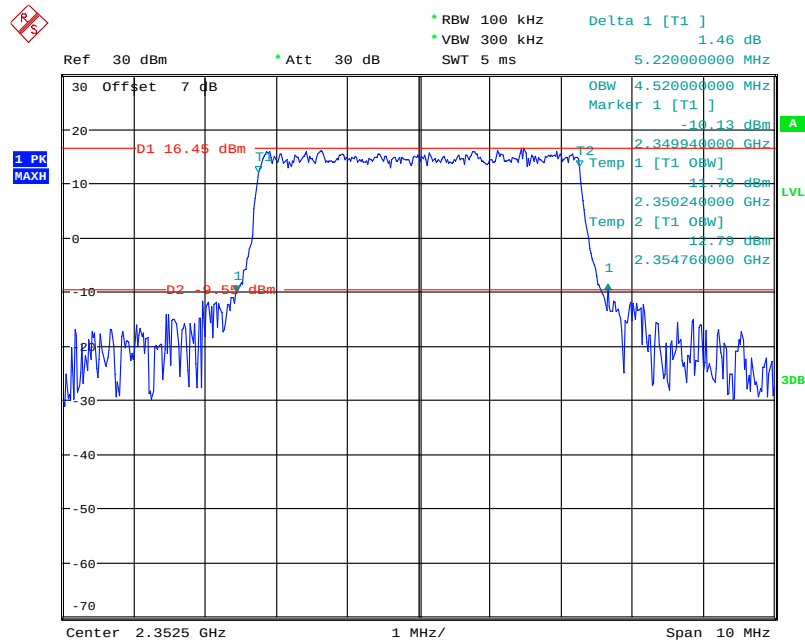
Band 40_10 MHz_Middle_16QAM_RB50#0



Date: 28.MAY.2021 16:01:48

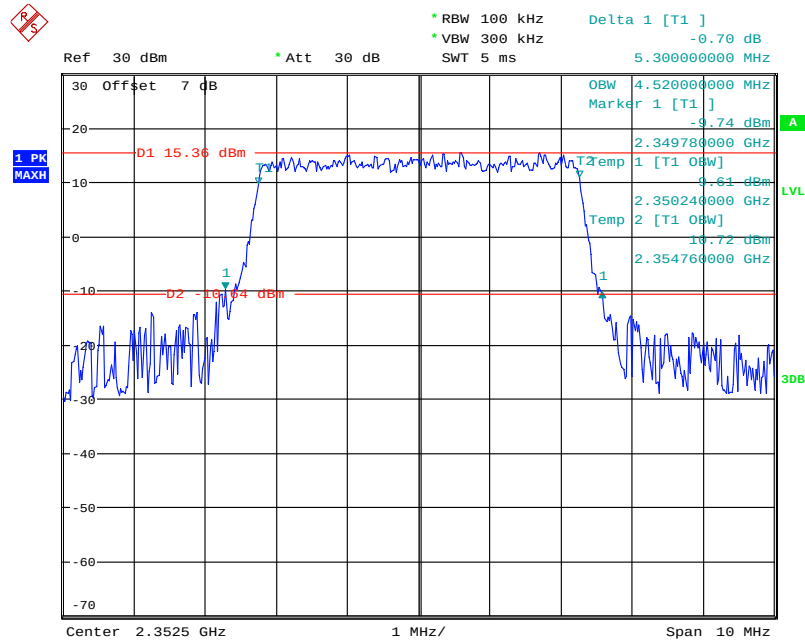
LTE Band 40 Upper

Band 40_5 MHz_Low_QPSK_RB25#0



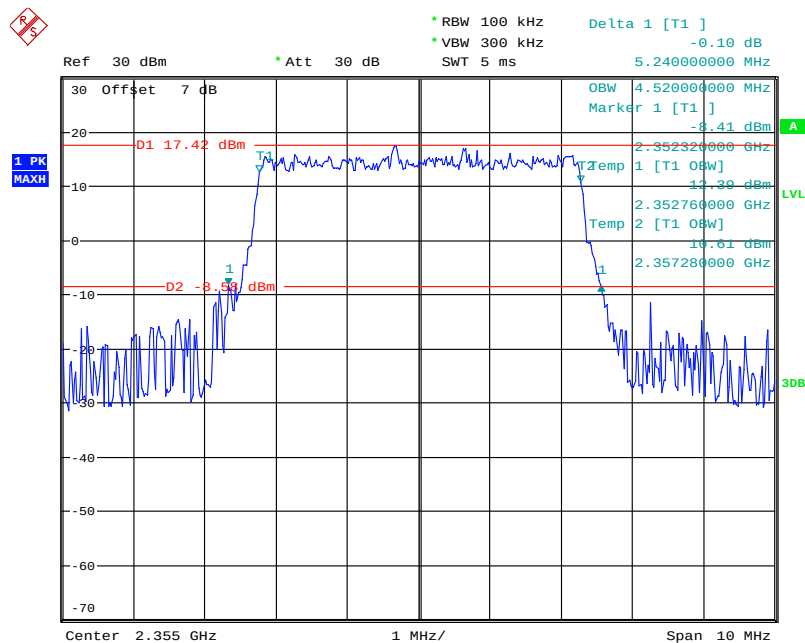
Date: 28.MAY.2021 16:10:40

Band 40_5 MHz_Low_16QAM_RB25#0



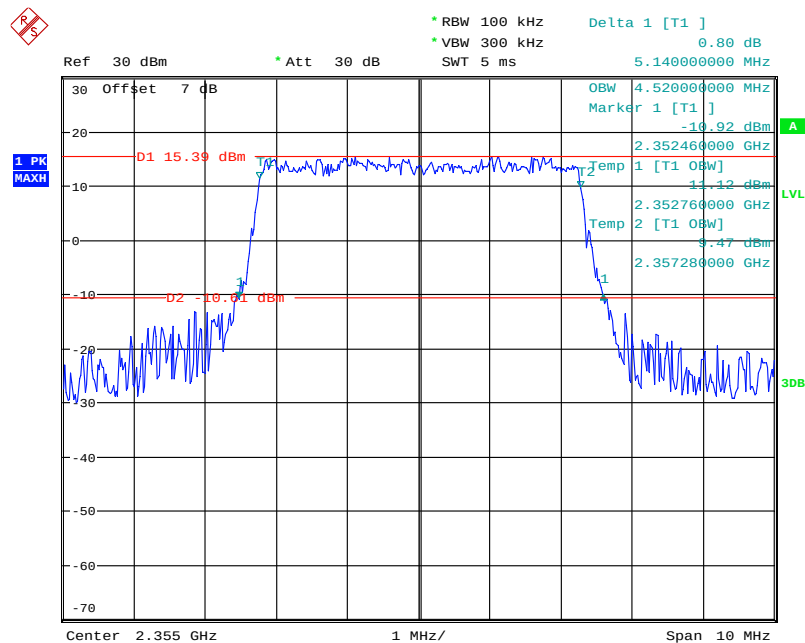
Date: 28.MAY.2021 16:11:08

Band 40_5 MHz_Middle_QPSK_RB25#0



Date: 28.MAY.2021 16:11:34

Band 40_5 MHz_Middle_16QAM_RB25#0



Date: 28.MAY.2021 16:12:02

* RBW 100 kHz
 * VBW 300 kHz
 Delta 1 [T1] 0.55 dB
 Ref 30 dBm
 * Att 30 dB
 SWT 5 ms
 5.180000000 MHz

30 Offset 7 dB
 20
 10
 0
 -10
 -20
 -30
 -40
 -50
 -60
 -70

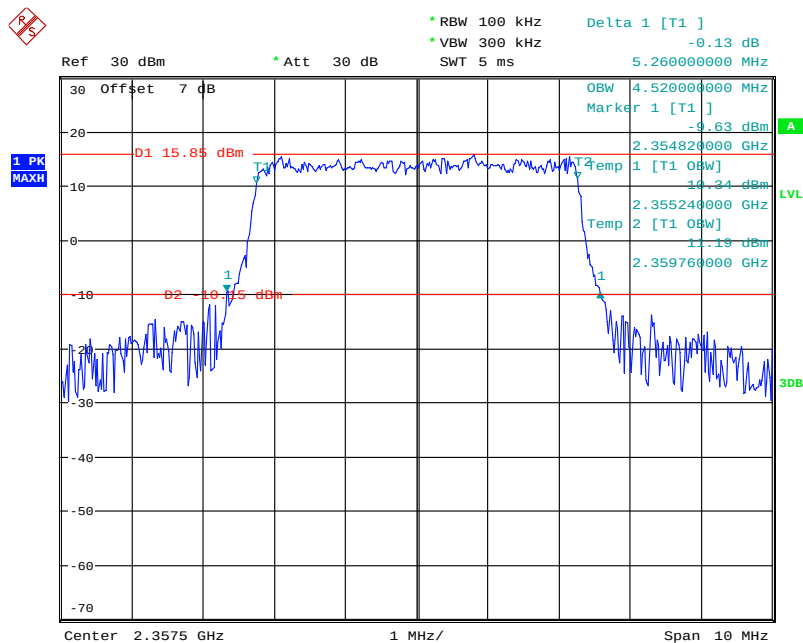
1 PK
 MAXH

D1 16.71 dBm
 D2 -9.21 dBm
 T1
 T2
 Temp 1 [T1 OBW] 11.24 dBm
 Temp 2 [T1 OBW] 11.64 dBm
 1
 2

OBW 4.520000000 MHz
 Marker 1 [T1] -8.99 dBm
 2.354800000 GHz
 2.355240000 GHz
 2.359760000 GHz

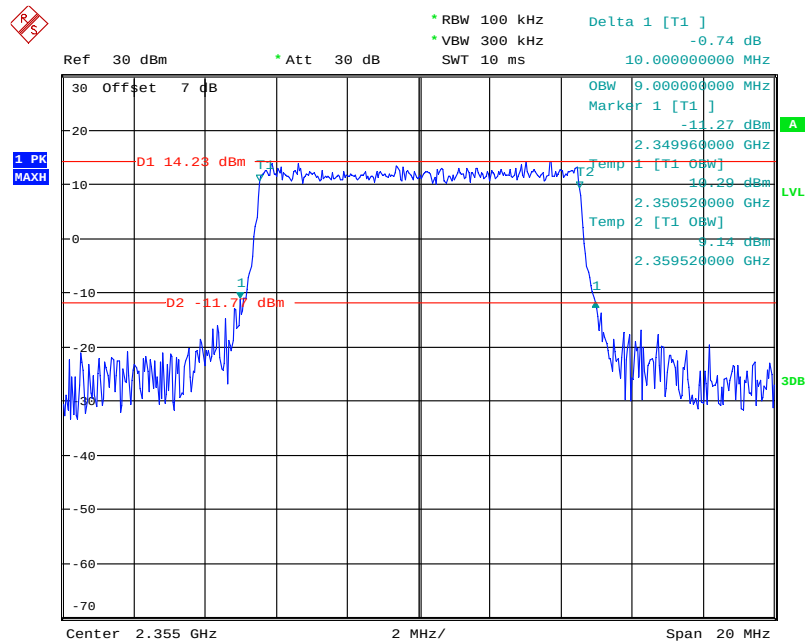
Center 2.3575 GHz
 1 MHz/
 Span 10 MHz

Band 40_5 MHz_High_16QAM_RB25#0



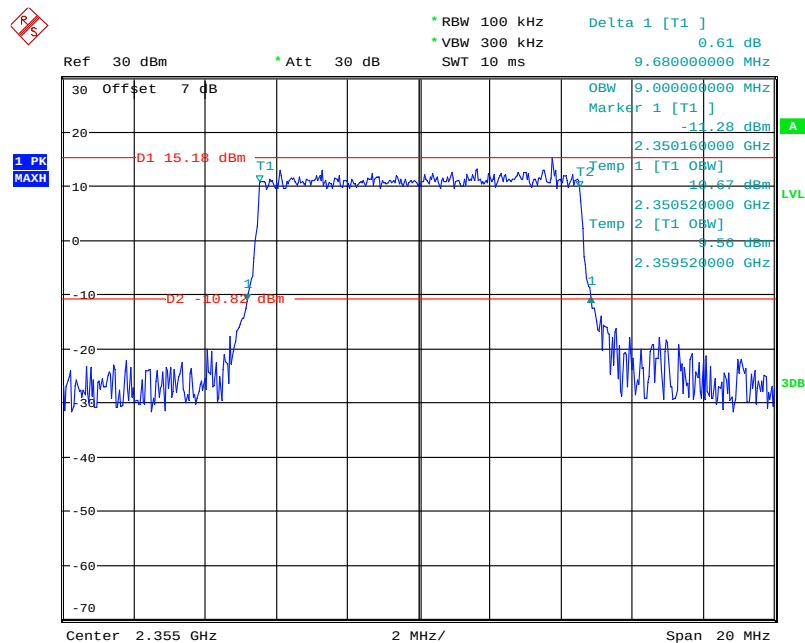
Page 131 of 145

Band 40_10 MHz_Middle_QPSK_RB50#0



Date: 28.MAY.2021 16:13:47

Band 40_10 MHz_Middle_16QAM_RB50#0

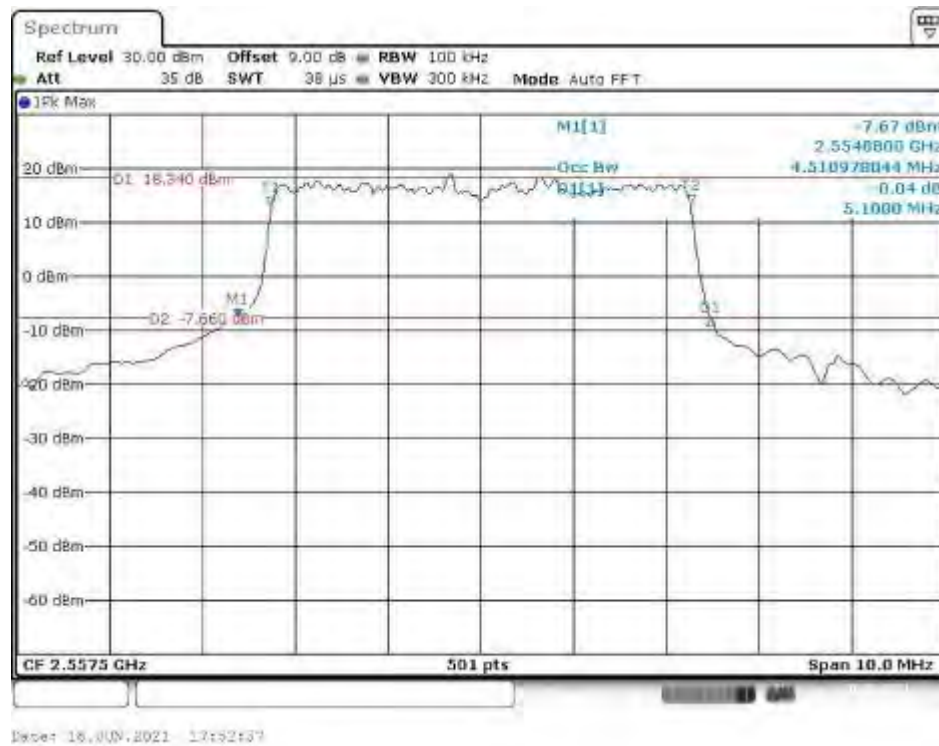


Date: 28.MAY.2021 16:14:20

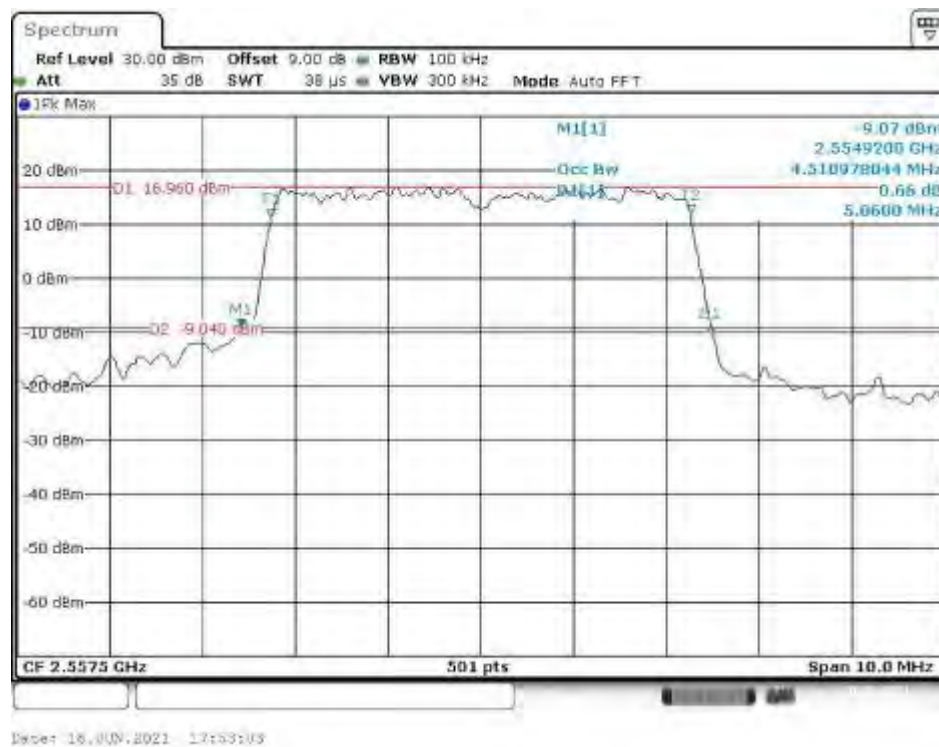
LTE Band 41:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
5 MHz	QPSK	4.511	5.100	4.511	4.960	4.511	5.220
	16QAM	4.511	5.060	4.511	5.160	4.551	5.000
10 MHz	QPSK	8.942	9.720	8.942	9.720	8.982	10.000
	16QAM	8.942	9.480	8.942	9.440	8.942	10.200
15 MHz	QPSK	13.533	14.580	13.473	14.580	13.473	14.760
	16QAM	13.533	14.640	13.533	15.120	13.533	16.260
20 MHz	QPSK	18.043	19.360	17.884	19.200	17.964	19.920
	16QAM	17.964	19.280	17.964	20.400	17.884	19.360

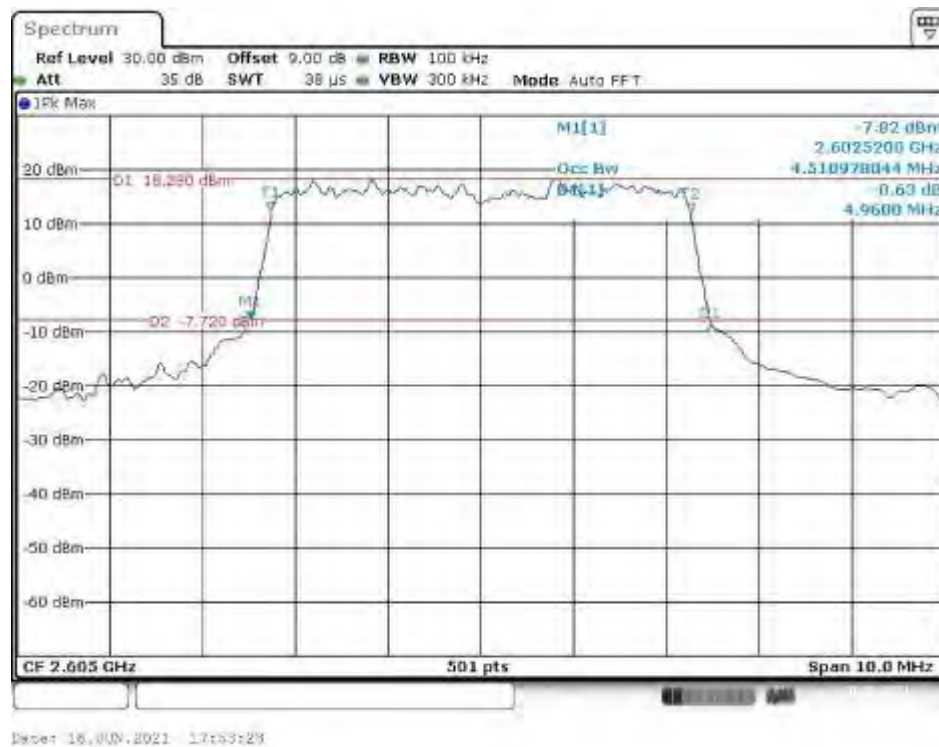
Band 41_5 MHz_Low_QPSK_RB25#0



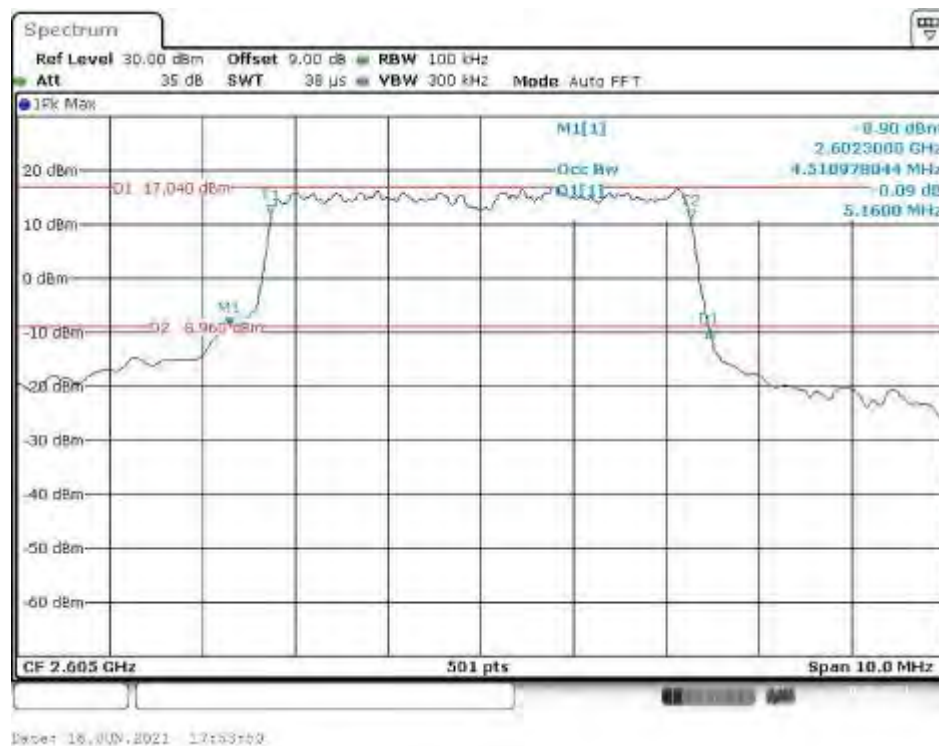
Band 41_5 MHz_Low_16QAM_RB25#0



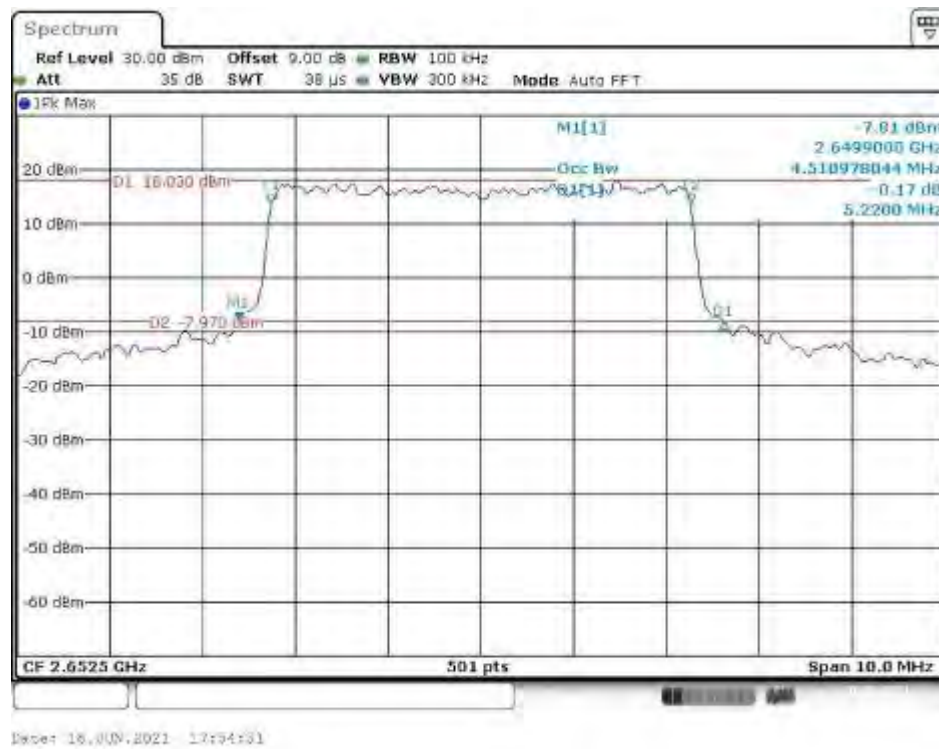
Band 41_5 MHz_Middle_QPSK_RB25#0



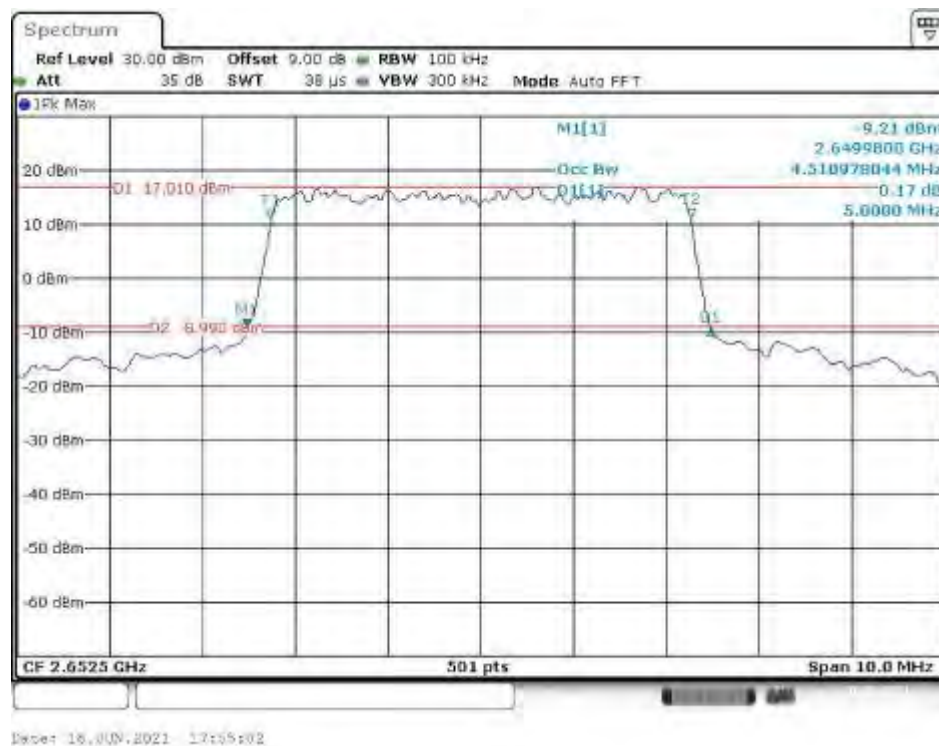
Band 41_5 MHz_Middle_16QAM_RB25#0



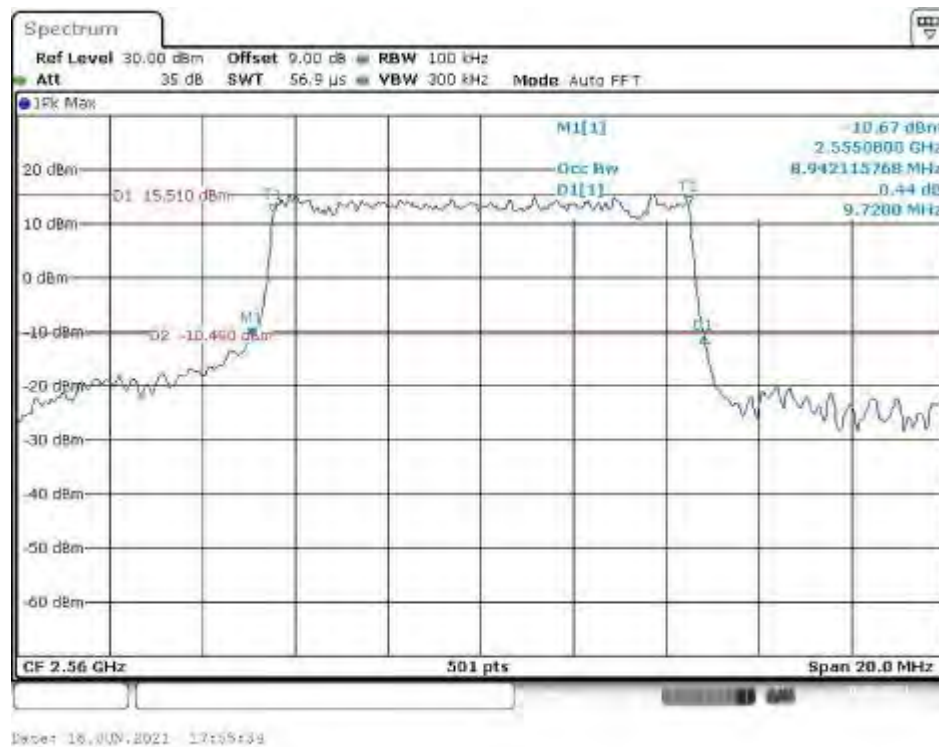
Band 41_5 MHz_High_QPSK_RB25#0



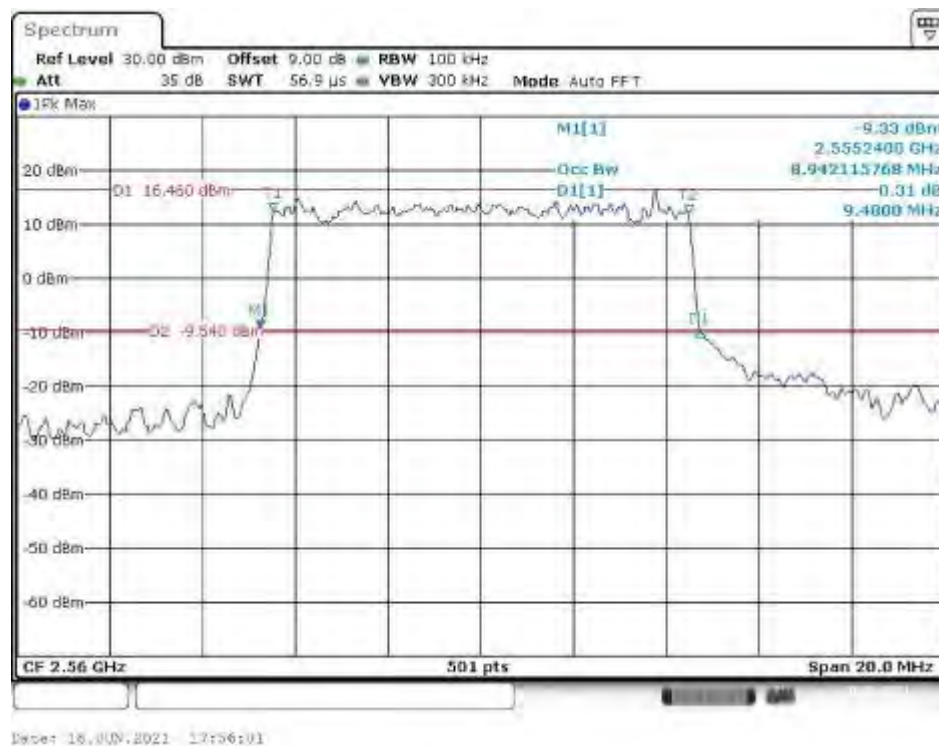
Band 41_5 MHz_High_16QAM_RB25#0



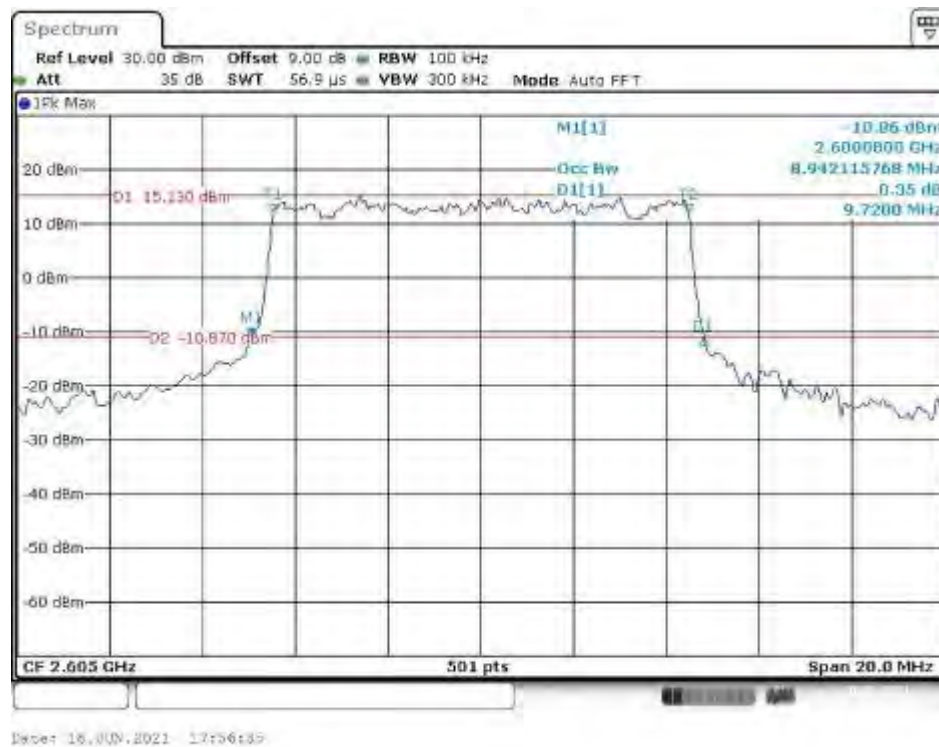
Band 41_10 MHz_Low_QPSK_RB50#0



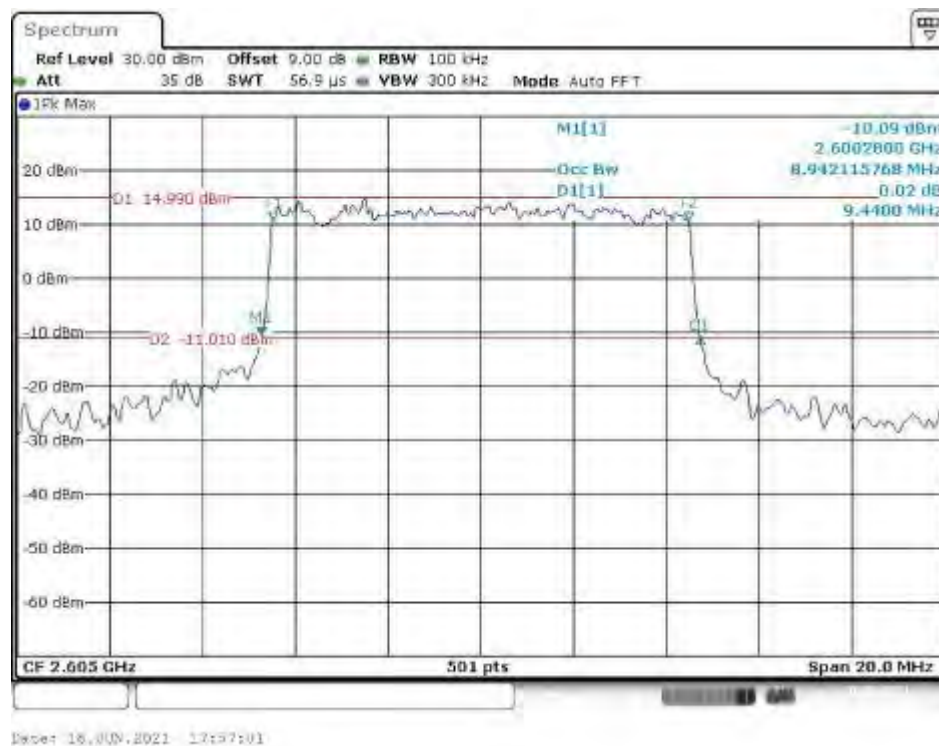
Band 41_10 MHz_Low_16QAM_RB50#0



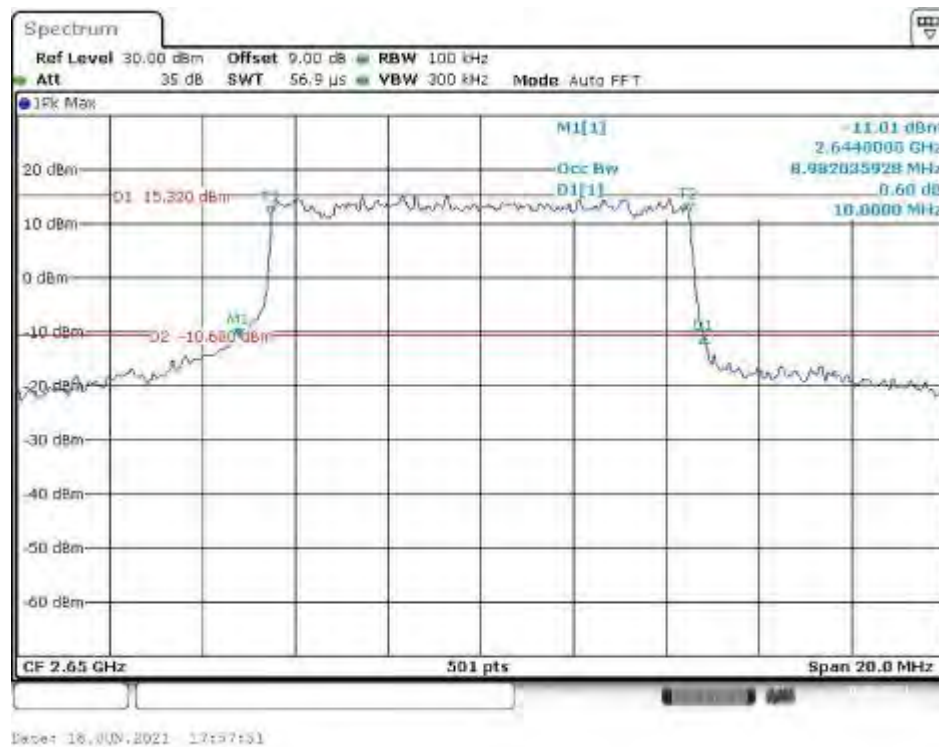
Band 41_10 MHz_Middle_QPSK_RB50#0



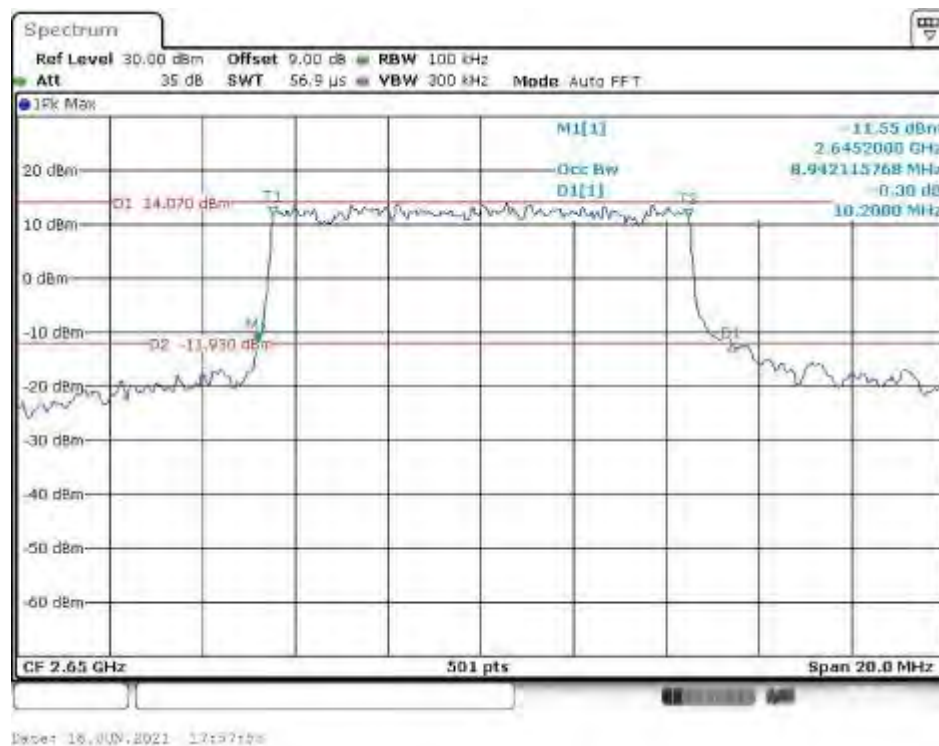
Band 41_10 MHz_Middle_16QAM_RB50#0



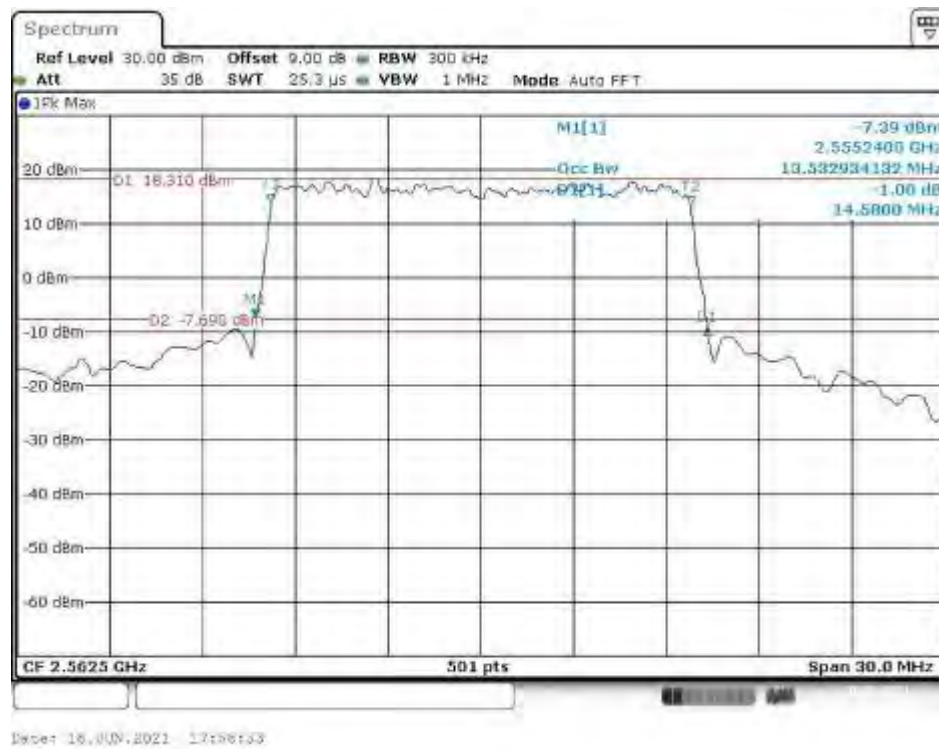
Band 41_10 MHz_High_QPSK_RB50#0



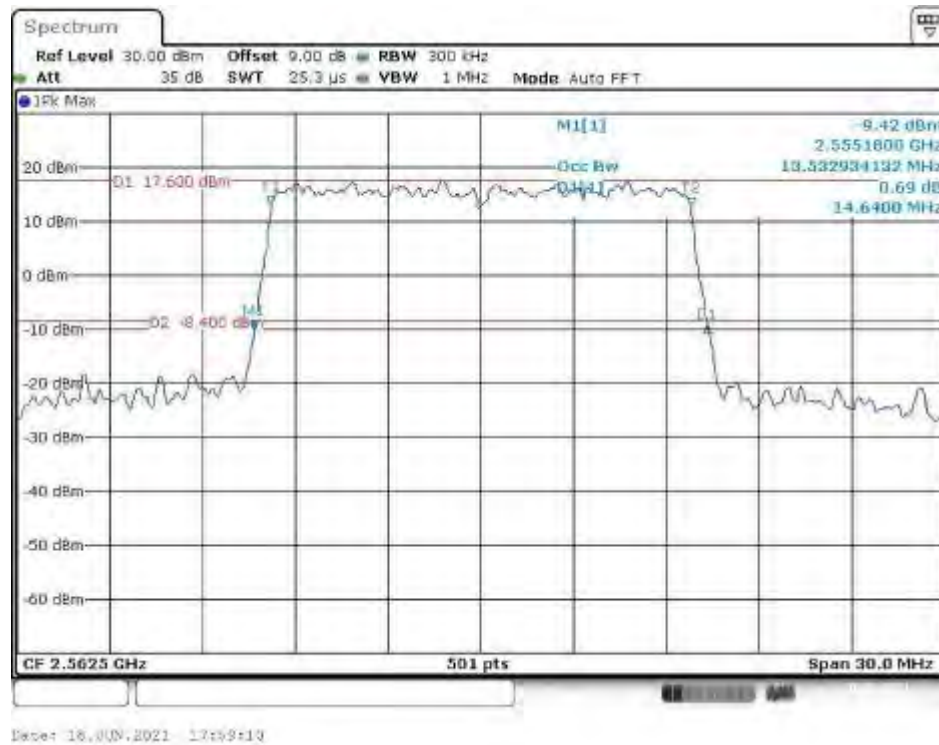
Band 41_10 MHz_High_16QAM_RB50#0



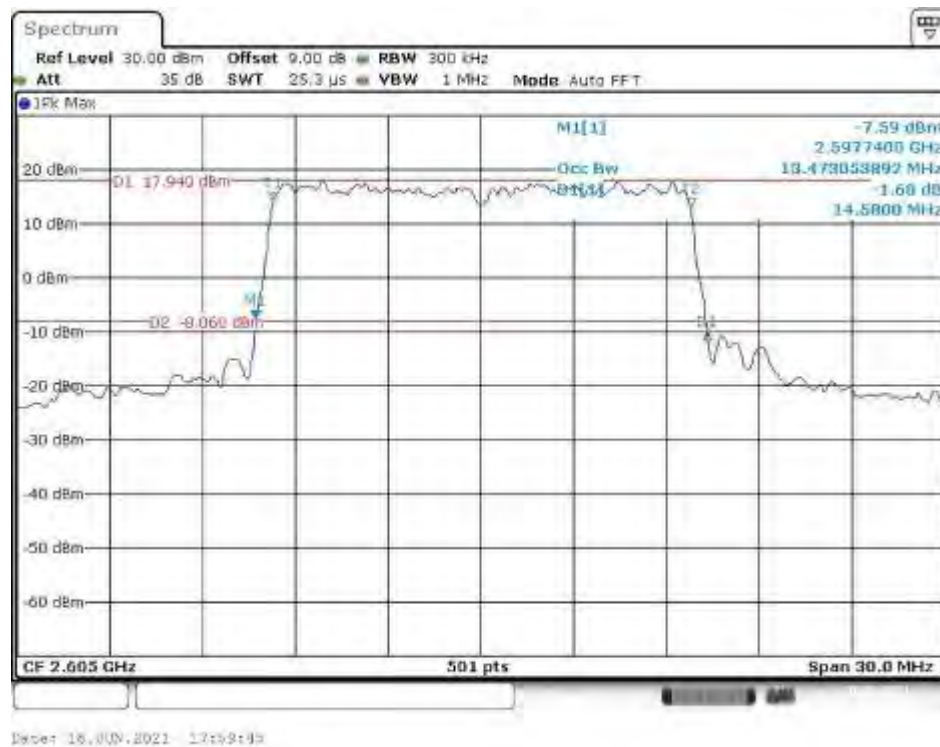
Band 41_15 MHz_Low_QPSK_RB75#0



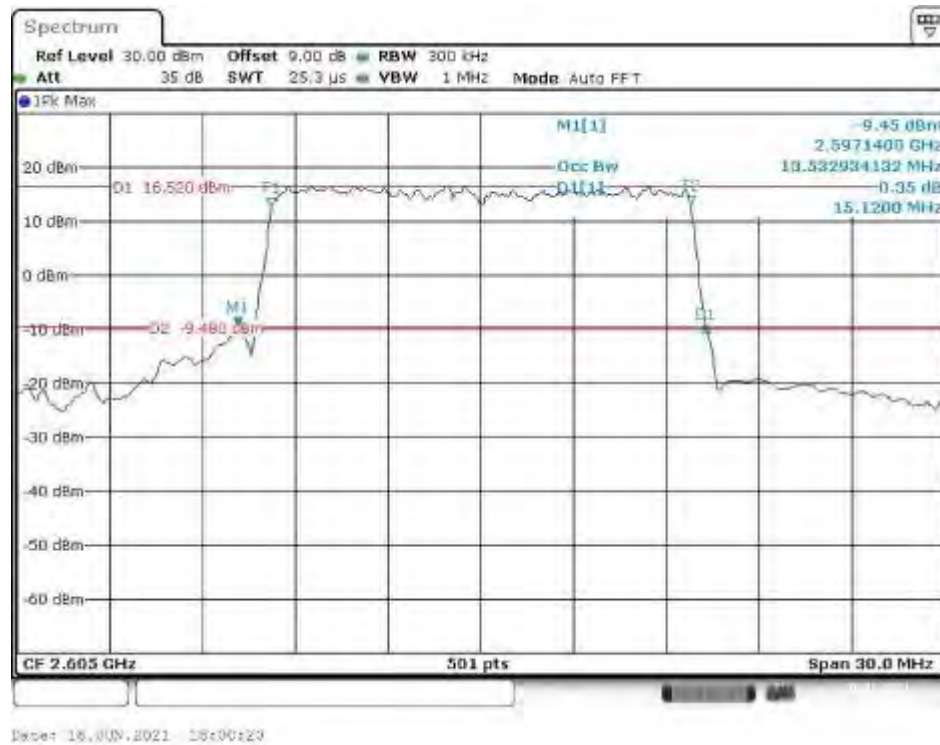
Band 41_15 MHz_Low_16QAM_RB75#0



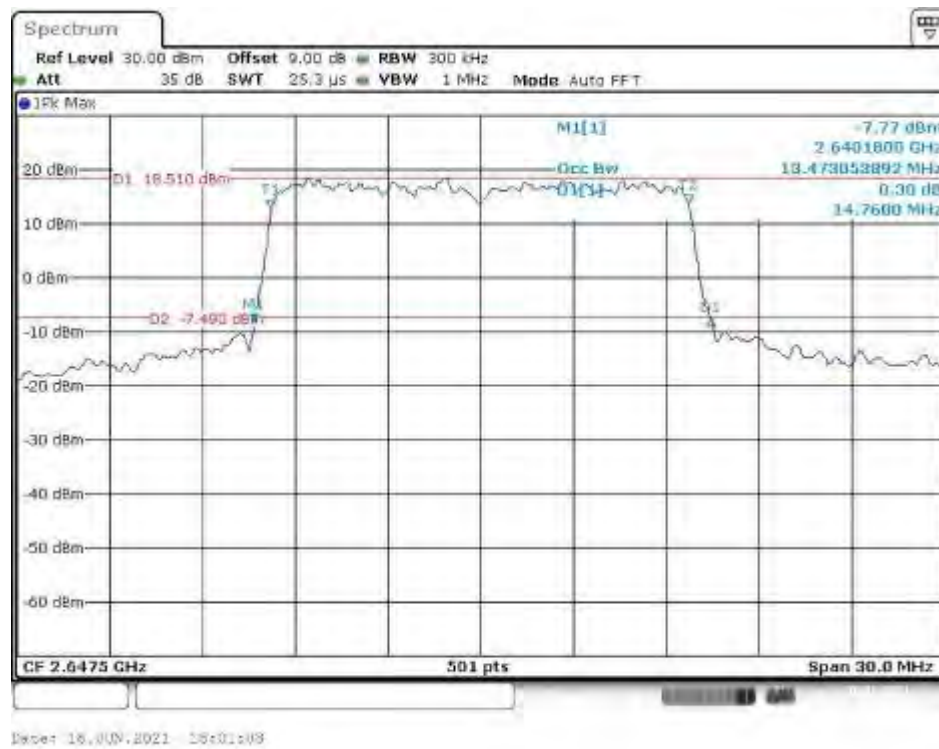
Band 41_15 MHz_Middle_QPSK_RB75#0



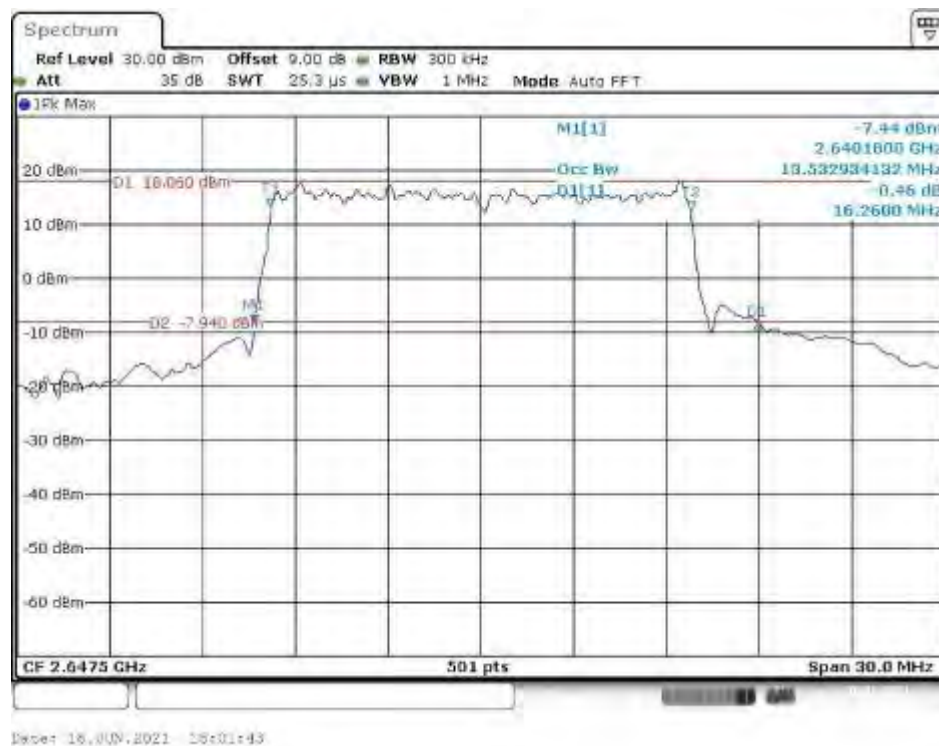
Band 41_15 MHz_Middle_16QAM_RB75#0



Band 41_15 MHz_High_QPSK_RB75#0



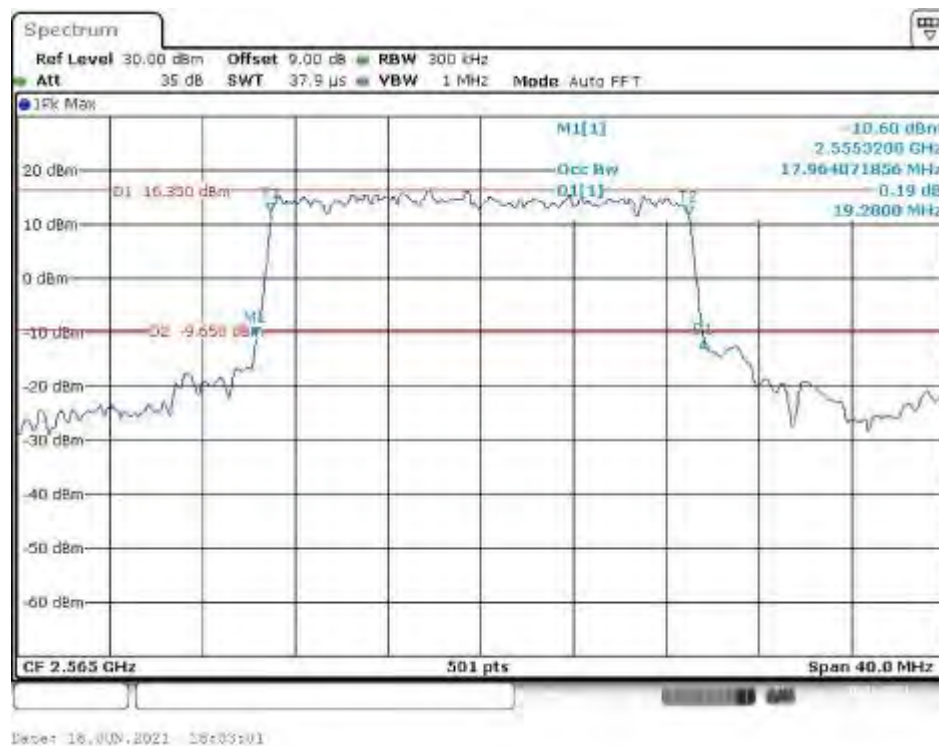
Band 41_15 MHz_High_16QAM_RB75#0



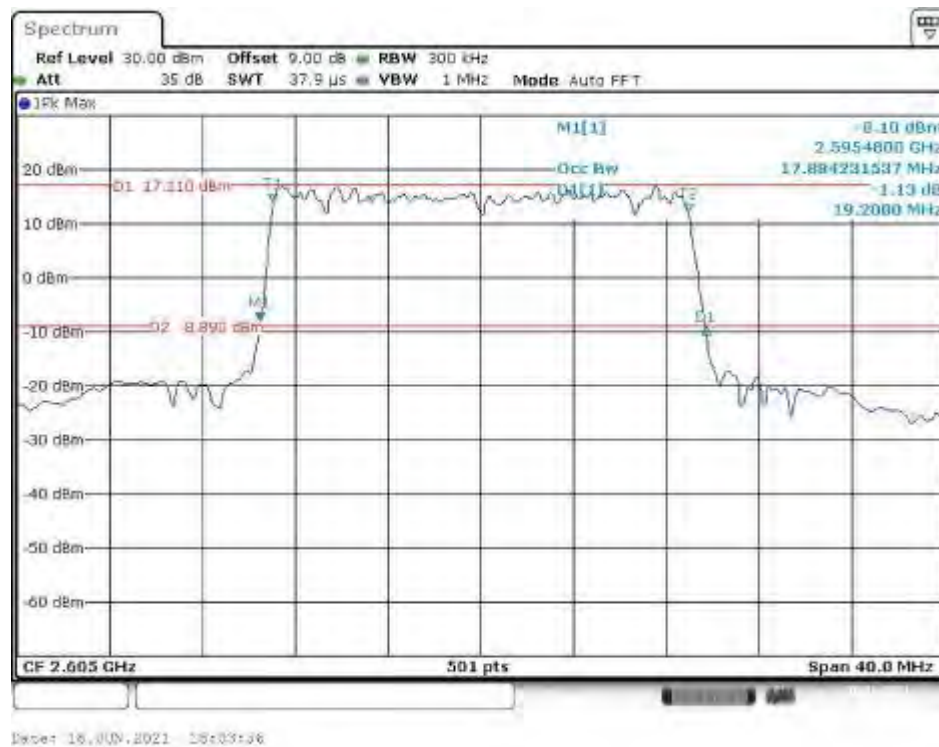
Band 41_20 MHz_Low_QPSK_RB100#0



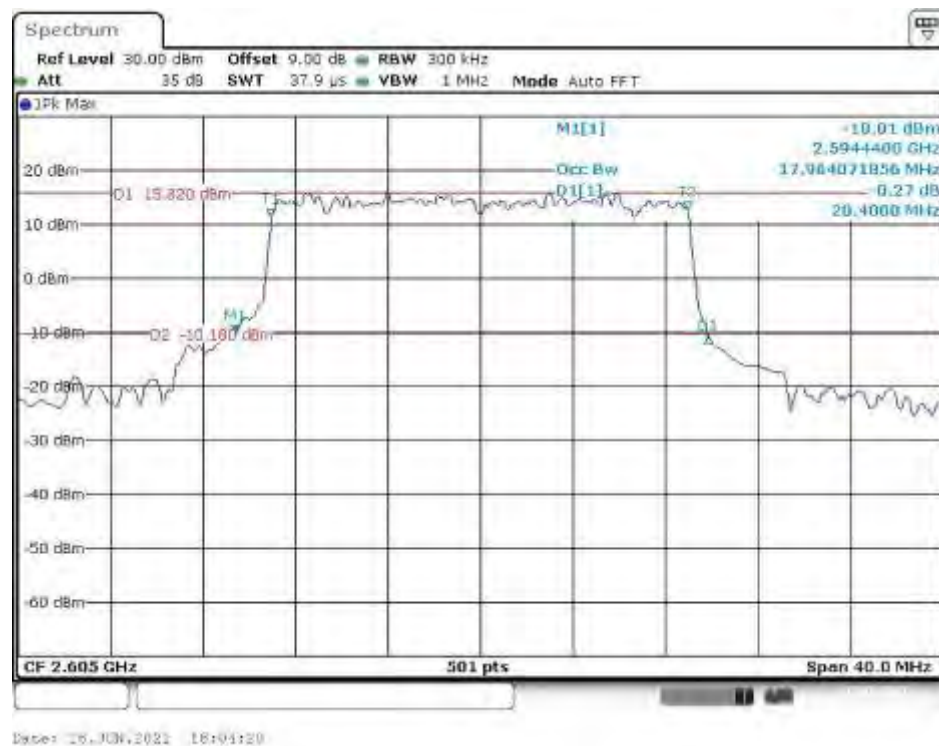
Band 41_20 MHz_Low_16QAM_RB100#0



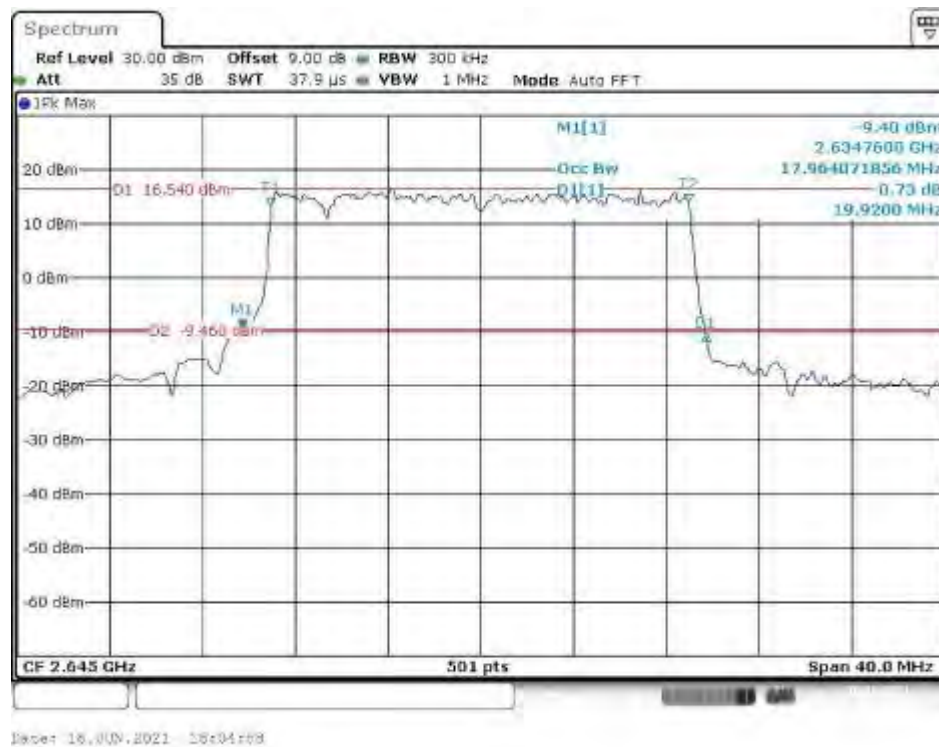
Band 41_20 MHz_Middle_QPSK_RB100#0



Band 41_20 MHz_Middle_16QAM_RB100#0



Band 41_20 MHz_High_QPSK_RB100#0



Band 41_20 MHz_High_16QAM_RB100#0

