

Band Edge Measurement Results: 802.11

Mode	Channel	Frequency	Modulation	Bit	Transmit	Emission	Antenna	Emission	Fundamental	Fundamental	Attenuation	Limit	Margin
	Number	(MHz)		Rate	Duty Cycle	Power	Gain	EIRP	Power	EIRP			
				(Mbps)	(%)	[P _{Em}] (dBm)	[G _T] (dBi)	[E _{Em}] (dBm)	[P _{Fund}] (dBm)	[E _{Fund}] (dBm)	[Atten] (dB)	(dB)	(dB)
802.11b	1	2412.00	DSSS	5.5	100.00	-30.90	0.6	-30.30	3.11	3.71	34.01	30	4.0
	11	2462.00				-45.05		-44.45	1.15	1.75	46.20		16.2
802.11g	1	2412.00	OFDM	6		-42.33		-41.73	-4.65	-4.05	37.68		7.7
	11	2462.00				-43.76		-43.16	-4.36	-3.76	39.40		9.4
802.11n	1	2412.00	OFDM	MCS0		-44.19		-43.59	-5.38	-4.78	38.81		8.8
	11	2462.00				-50.33		-49.73	-5.95	-5.35	44.38		14.4
Result:												Complies	

Emission [E_{Em}] = [P_{Em}] + [G_T]

Fundamental EIRP [E_{Fund}] = [P_{Fund}] + [G_T]

Attenuation [Atten] = [E_{Fund}] - [E_{Em}]

Margin = Attenuation - Limit

Ref 40 dBm

* Att 20 dB

SWT 5 ms

-11.660000000 MHz



Channel Number: 1

Channel Frequency (MHz): **2412**Modulation: **DSSS**

Bit Rate (Mbps): **5.5**

Emission Power (dBm): **-30.90**

-30.90

Upper Band Edge: 802.11b

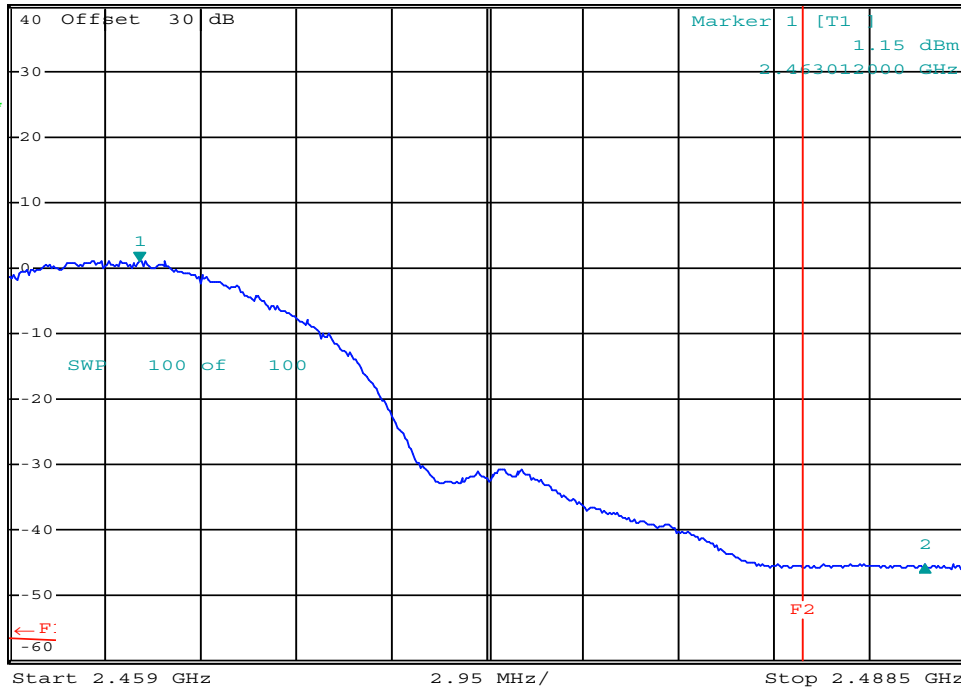


*RBW 300 kHz Delta 2 [T1]
 VBW 3 MHz -46.20 dB
 SWT 5 ms 24.219500000 MHz

Ref 40 dBm

*Att 20 dB

1 RM*
 VIEW



Date: 6.OCT.2022 14:01:18

Channel Number: 11

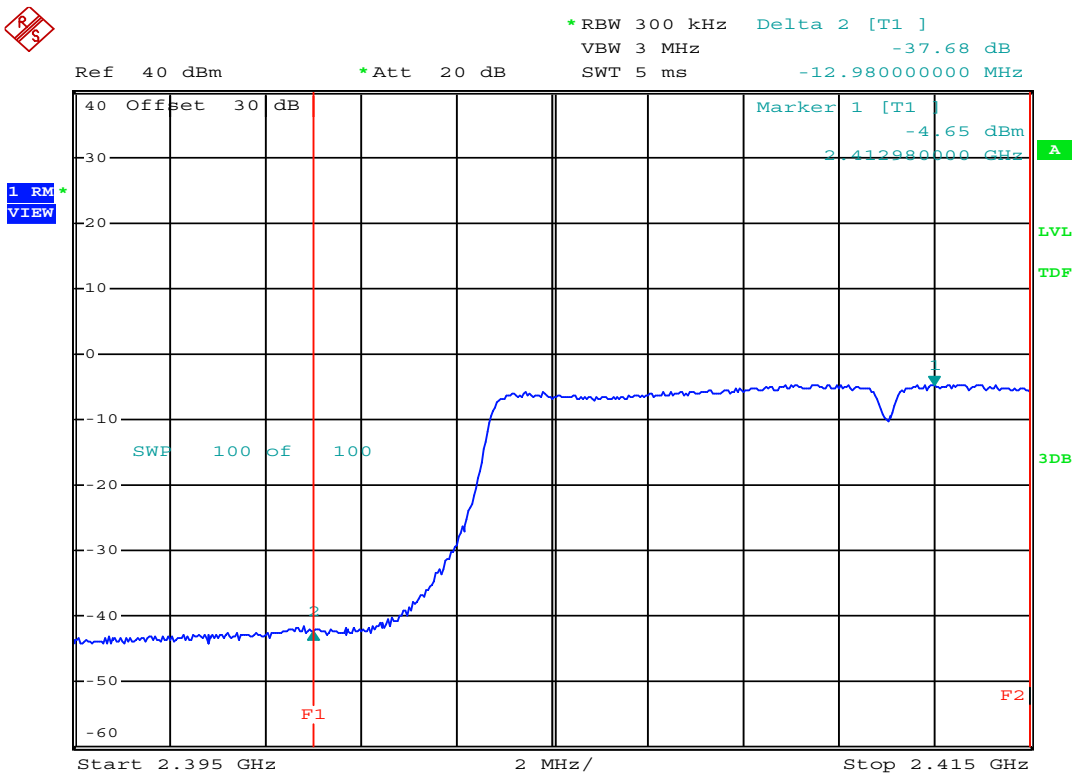
Channel Frequency (MHz): 2462

Channel Power (dBm): -45.05

Modulation: DSSS

Bit Rate (Mbps): 5.5

Lower Band Edge: 802.11g



Date: 6.OCT.2022 13:54:13

Channel Number: 1	Channel Frequency (MHz): 2412	Channel Power (dBm): -42.33
Modulation: OFDM	Bit Rate (Mbps): 6	

Upper Band Edge: 802.11g



*RBW 300 kHz Delta 2 [T1]
 VBW 3 MHz -39.40 dB
 SWT 5 ms 19.927500000 MHz

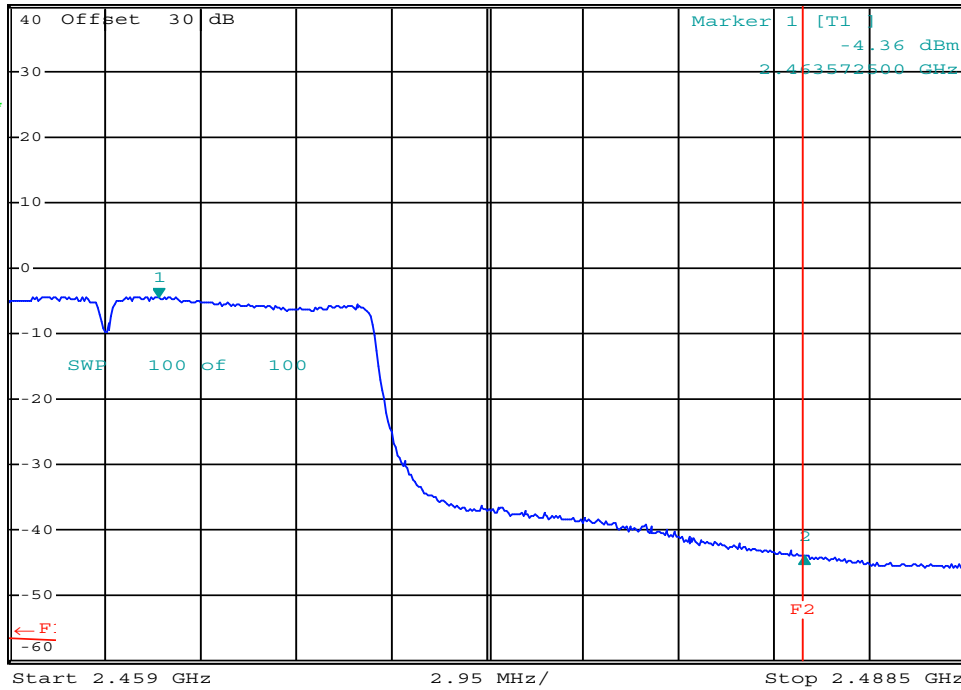
Ref 40 dBm

*Att 20 dB

SWT 5 ms

19.927500000 MHz

1 RM*
 VIEW



Date: 6.OCT.2022 14:00:16

Channel Number: 11

Channel Frequency (MHz): 2462

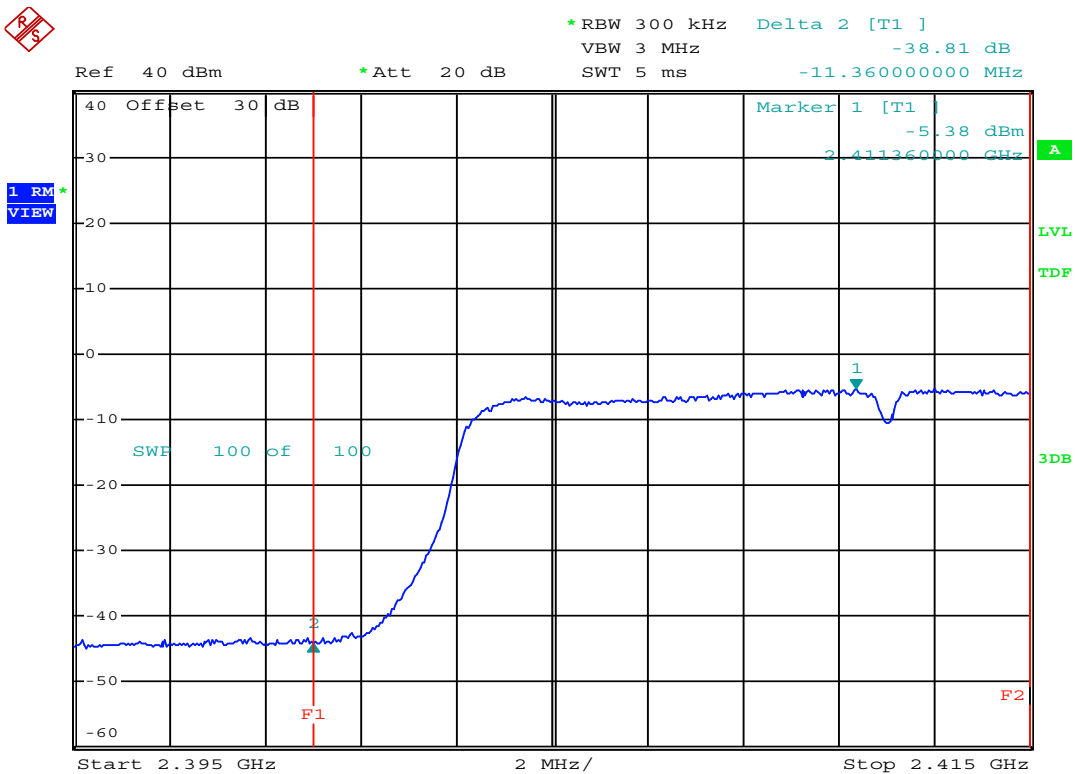
Channel Power (dBm):

-43.76

Modulation: OFDM

Bit Rate (Mbps): 6

Lower Band Edge: 802.11n



Date: 6.OCT.2022 13:55:05

Channel Number: 1	Channel Frequency (MHz): 2412	Channel Power (dBm): -44.19
Modulation: OFDM	Bit Rate (Mbps): MCS0	

Upper Band Edge: 802.11n



*RBW 300 kHz Marker 2 [T1]
 VBW 3 MHz -44.38 dBm
 SWT 5 ms 2.483500000 GHz

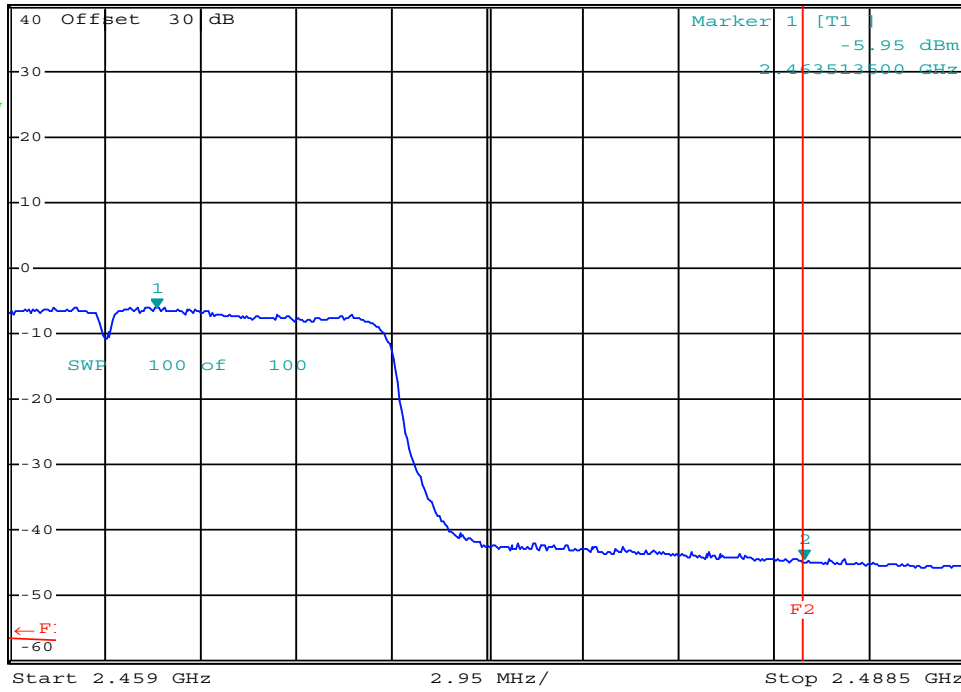
Ref 40 dBm

*Att 20 dB

SWT 5 ms

2.483500000 GHz

1 RM
 VIEW



Date: 6.OCT.2022 13:58:05

Channel Number: 11

Channel Frequency (MHz): 2462

Channel Power (dBm): -50.33

Modulation: OFDM

Bit Rate (Mbps): MCS0

Band Edge Measurement Results: FHSS													
Mode	Channel Number	Frequency (MHz)	Modulation	Bit Rate (Mbps)	Transmit Duty Cycle (%)	Emission Power [P _{Em}] (dBm)	Antenna Gain [G _T] (dBi)	Emission EIRP [E _{Em}] (dBm)	Fundamental Power [P _{Fund}] (dBm)	Fundamental EIRP [E _{Fund}] (dBm)	Attenuation [Atten] (dB)	Limit (dB)	Margin (dB)
BT BR	2	2402.00	GFSK	1.0	100.00	-47.22	0.6	-46.62	0.88	1.48	48.10	30	18.1
	80	2480.00				-63.87		-63.27	1.99	2.59	65.86		35.9
BT	2	2402.00	Pi/4-DQPSK	2		-45.50		-44.90	0.95	1.55	46.45		16.5
EDR2	80	2480.00				-64.20		-63.60	2.13	2.73	66.33		36.3
BT	2	2402.00	8-DPSK	3		-45.07		-44.47	0.12	0.72	45.19		15.2
EDR3	80	2480.00				-63.58		-62.98	1.34	1.94	64.92		34.9
Result:												Complies	

Emission [E_{Em}] = [P_{Em}] + [G_T]

Fundamental EIRP [E_{Fund}] = [P_{Fund}] + [G_T]

Attenuation [Atten] = [E_{Fund}] - [E_{Em}]

Margin = Attenuation - Limit

Ref	20 dBm	* Att	0 dB
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Channel Number: **2**Emission Power (dBm): **-47.22**

Bit Rate (Mbps): **2**

Upper Band Edge: BT EDR2

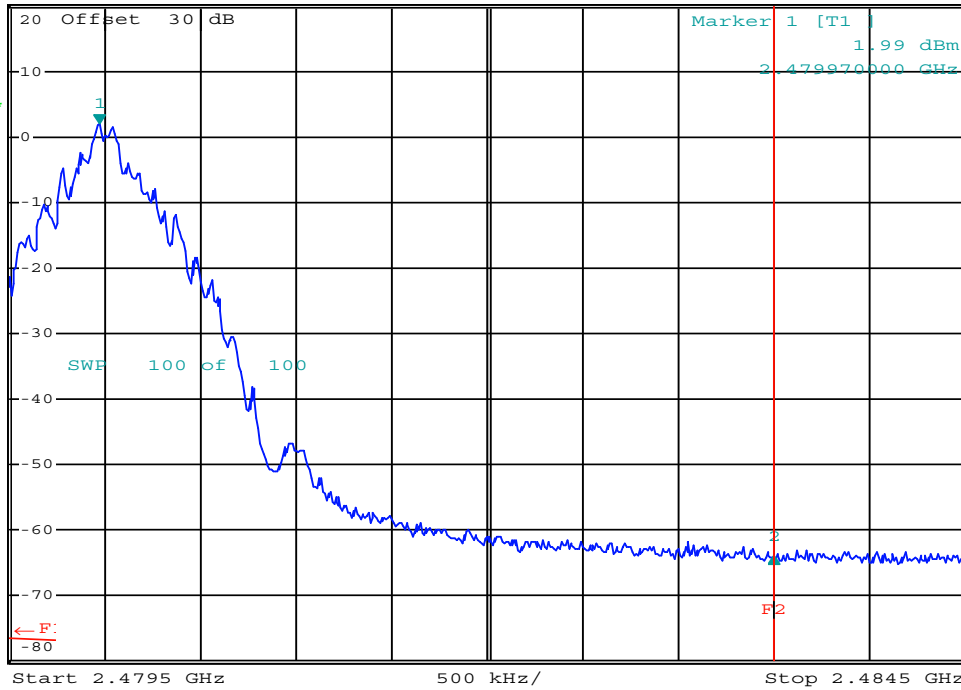


*RBW 30 kHz Delta 2 [T1]
 VBW 300 kHz -65.86 dB
 SWT 10 ms 3.530000000 MHz

Ref 20 dBm

*Att 0 dB

1 RM
 VIEW



Date: 6.OCT.2022 12:13:53

Channel Number: 80

Channel Frequency (MHz): 2480

Emission Power (dBm): -63.87

Modulation: GFSK

Bit Rate (Mbps): 2

Lower Band Edge: BT EDR2

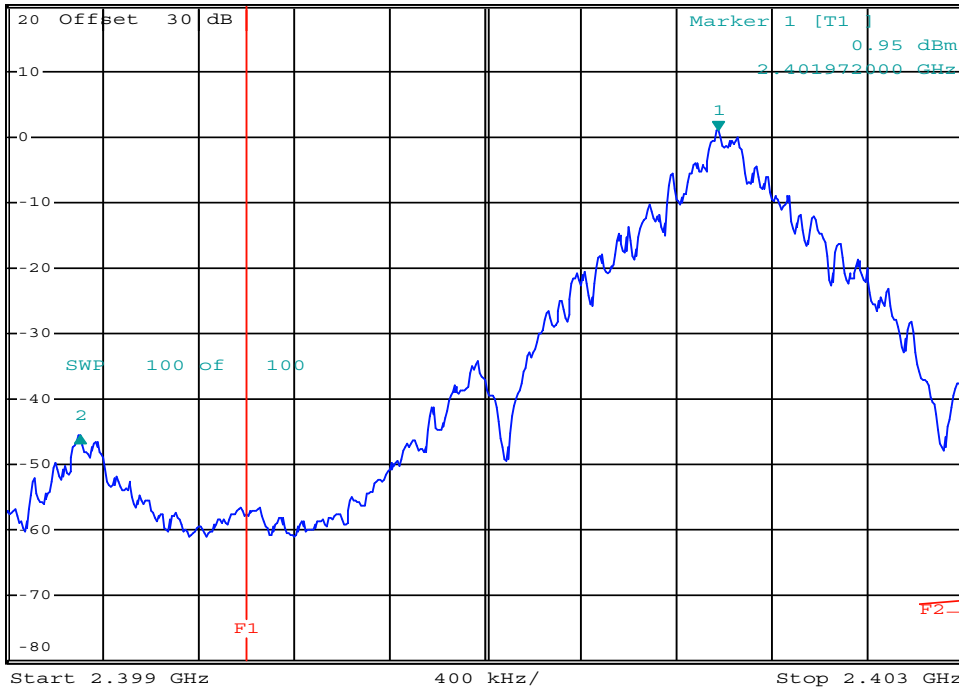


*RBW 30 kHz Delta 2 [T1]
 VBW 300 kHz -46.45 dB
 SWT 5 ms -2.668000000 MHz

Ref 20 dBm

*Att 0 dB

1 RM*
 VIEW



Date: 6.OCT.2022 12:16:22

Channel Number: **2**

Channel Frequency (MHz): **2402**

Emission Power (dBm): **-45.50**

Modulation: **PI/4-DQPSK**

Bit Rate (Mbps): **2**

Upper Band Edge: BT EDR2

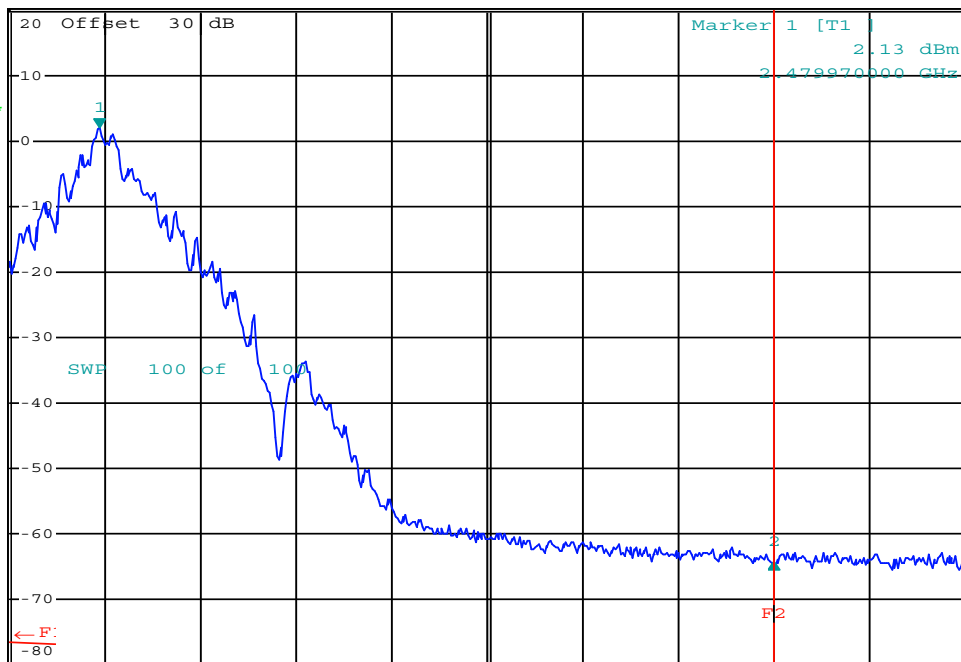


*RBW 30 kHz Delta 2 [T1]
 VBW 300 kHz -66.33 dB
 SWT 10 ms 3.530000000 MHz

Ref 20 dBm

*Att 0 dB

1 RM
 VIEW



Start 2.4795 GHz

500 kHz/

Stop 2.4845 GHz

Date: 6.OCT.2022 12:14:48

Channel Number: **80**

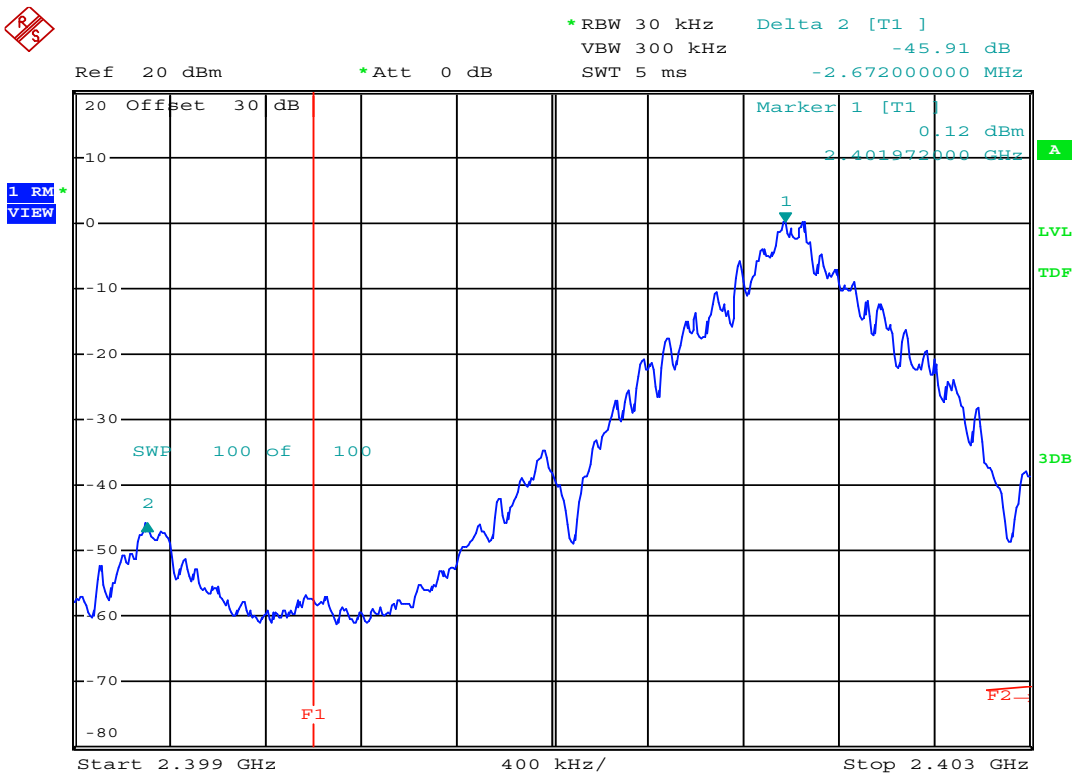
Channel Frequency (MHz): **2480**

Emission Power (dBm): **-64.20**

Modulation: **PI/4-DQPSK**

Bit Rate (Mbps): **2**

Lower Band Edge: BT EDR3



Date: 6.OCT.2022 12:17:18

Channel Number: 2	Channel Frequency (MHz): 2402	Emission Power (dBm): -45.07
Modulation: 8-DPSK	Bit Rate (Mbps): 2	

Upper Band Edge: BT EDR3

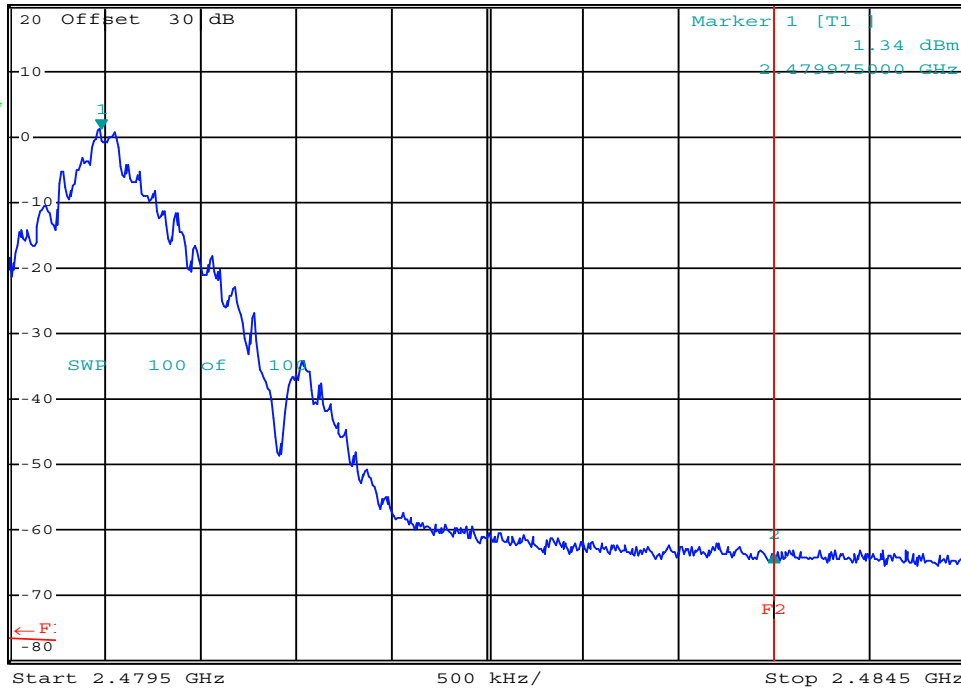


*RBW 30 kHz Delta 2 [T1]
 VBW 300 kHz -64.92 dB
 SWT 10 ms 3.525000000 MHz

Ref 20 dBm

*Att 0 dB

1 RM
 VIEW



Date: 6.OCT.2022 12:18:45

Channel Number: **80**

Channel Frequency (MHz): **2480**

Emission Power (dBm): **-63.58**

Modulation: **8-DPSK**

Bit Rate (Mbps): **2**