

Conducted Power Measurement Results: 802.11

Mode	Channel Number	Frequency (MHz)	Modulation	Bit Rate (Mbps)	Transmit Duty Cycle (%)	Measured Power [P _{Meas}] (dBm)	Conducted Limit [P _{Lim}] (dBm)	Conducted Margin (dB)	Antenna Gain [G _T] (dBi)	EIRP [E _{Meas}] (dBm)	EIRP Limit [E _{Lim}] (dBm)	EIRP Margin (dB)	Result
802.11b	6	2437.00	CCK	1	100.00	18.30	30	11.7	-3.6	14.70	36	21.3	Complies
	6	2437.00	CCK	2		18.34	30	11.7	-3.6	14.74	36	21.3	Complies
	6	2437.00	DSSS	6		18.56	30	11.4	-3.6	14.96	36	21.0	Complies
	1	2412.00	DSSS	6		15.76	30	14.2	-3.6	12.16	36	23.8	Complies
	2	2417.00	DSSS	6		16.44	30	13.6	-3.6	12.84	36	23.2	Complies
	3	2422.00	DSSS	6		16.59	30	13.4	-3.6	12.99	36	23.0	Complies
	4	2427.00	DSSS	6		18.26	30	11.7	-3.6	14.66	36	21.3	Complies
	5	2432.00	DSSS	6		18.35	30	11.7	-3.6	14.75	36	21.3	Complies
	7	2442.00	DSSS	6		18.34	30	11.7	-3.6	14.74	36	21.3	Complies
	8	2447.00	DSSS	6		17.15	30	12.9	-3.6	13.55	36	22.5	Complies
	9	2452.00	DSSS	6		17.28	30	12.7	-3.6	13.68	36	22.3	Complies
	10	2457.00	DSSS	6		16.13	30	13.9	-3.6	12.53	36	23.5	Complies
	11	2462.00	DSSS	6		15.47	30	14.5	-3.6	11.87	36	24.1	Complies
802.11g	6	2437.00	OFDM	6		15.41	30	14.6	-3.6	11.81	36	24.2	Complies
	6	2437.00	OFDM	9		15.54	30	14.5	-3.6	11.94	36	24.1	Complies
	6	2437.00	OFDM	12		15.84	30	14.2	-3.6	12.24	36	23.8	Complies
	6	2437.00	OFDM	36		15.79	30	14.2	-3.6	12.19	36	23.8	Complies
	6	2437.00	OFDM	54		16.08	30	13.9	-3.6	12.48	36	23.5	Complies
802.11n	6	2437.00	OFDM	MCS0		13.90	30	16.1	-3.6	10.30	36	25.7	Complies
	6	2437.00	OFDM	MCS3		13.03	30	17.0	-3.6	9.43	36	26.6	Complies
	6	2437.00	OFDM	MCS7		17.10	30	12.9	-3.6	13.50	36	22.5	Complies
	6	2437.00	OFDM	MCS7		16.23	30	13.8	-3.6	12.63	36	23.4	Complies
	6	2437.00	OFDM	MCS7		11.67	30	18.3	-3.6	8.07	36	27.9	Complies

$$\text{Conducted Margin} = P_{\text{Limit}} - P_{\text{Meas}}$$

$$\text{EIRP Margin} = E_{\text{Limit}} - E_{\text{Meas}}$$

$$\text{EIRP } E_{\text{Meas}} = P_{\text{Meas}} + G_T$$

$$\text{Conducted Margin} = P_{\text{Limit}} - P_{\text{Meas}}$$

$$\text{EIRP Margin} = E_{\text{Limit}} - E_{\text{Meas}}$$

* Antenna Gain information provided by applicant.

Conducted Output Power WiFi 802.11b

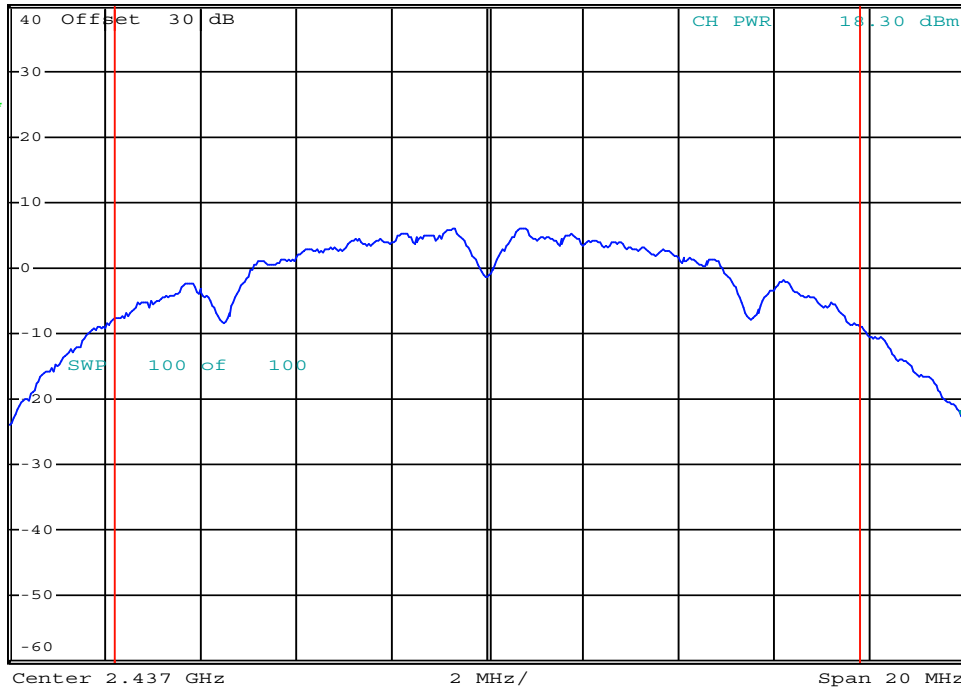


*RBW 300 kHz Marker 1 [T1]
 VBW 3 MHz -23.21 dBm
 SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
 VIEW



Date: 17.SEP.2022 14:34:36

Channel Number: **6**

Channel Frequency (MHz): **2437**

Channel Power (dBm): **18.30**

Modulation: **CCK**

Bit Rate (Mbps): **1**

Conducted Output Power WiFi 802.11b

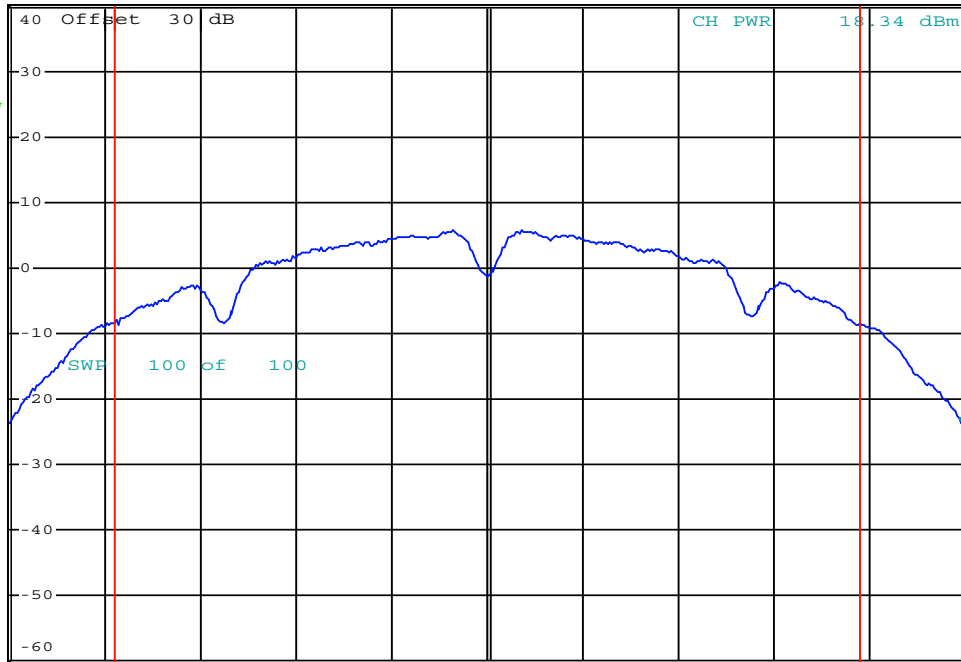


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -24.22 dBm
SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Center 2.437 GHz

2 MHz/

Span 20 MHz

Date: 17.SEP.2022 14:35:29

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 18.34

Modulation: CCK

Bit Rate (Mbps): 2

Conducted Output Power WiFi 802.11b

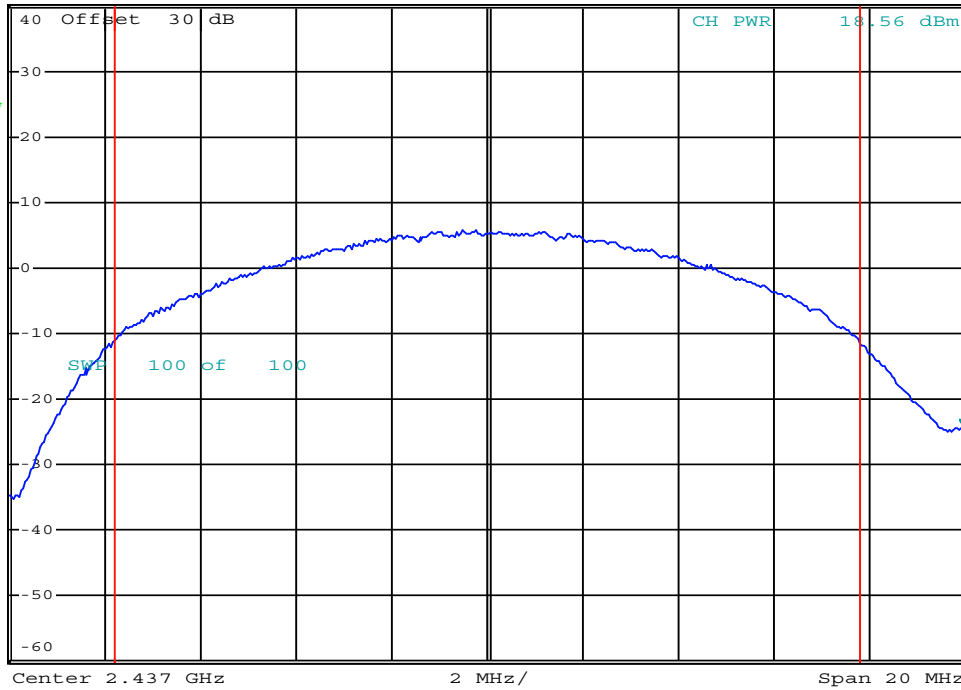


*RBW 300 kHz Marker 1 [T1]
 VBW 3 MHz -24.35 dBm
 SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
 VIEW



Date: 17.SEP.2022 14:36:17

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 18.56

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

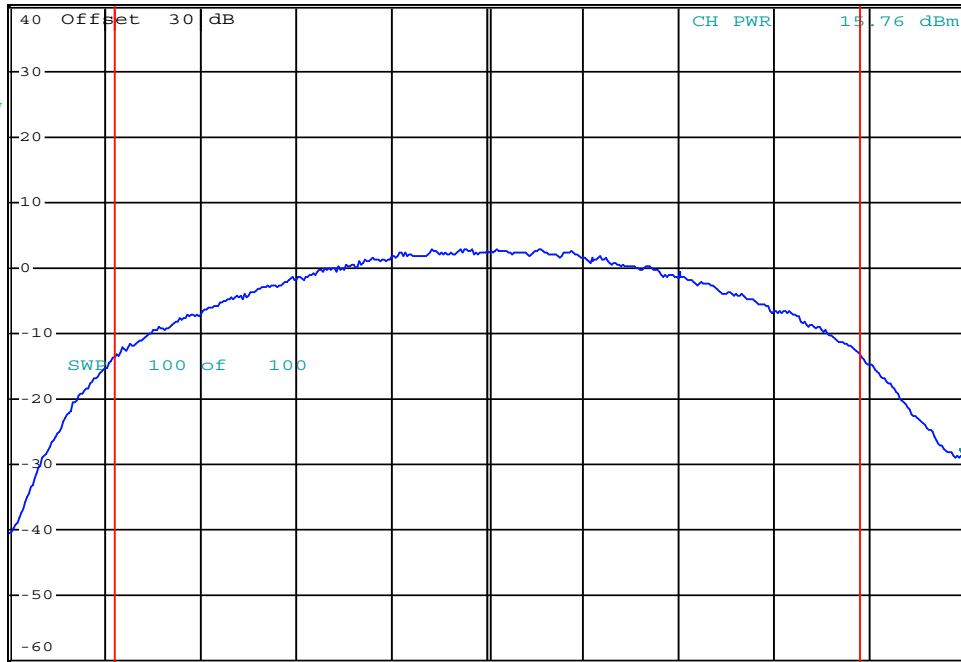


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -28.85 dBm
SWT 2.5 ms 2.422000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:50:50

Channel Number: 1

Channel Frequency (MHz): 2412

Channel Power (dBm): 15.76

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

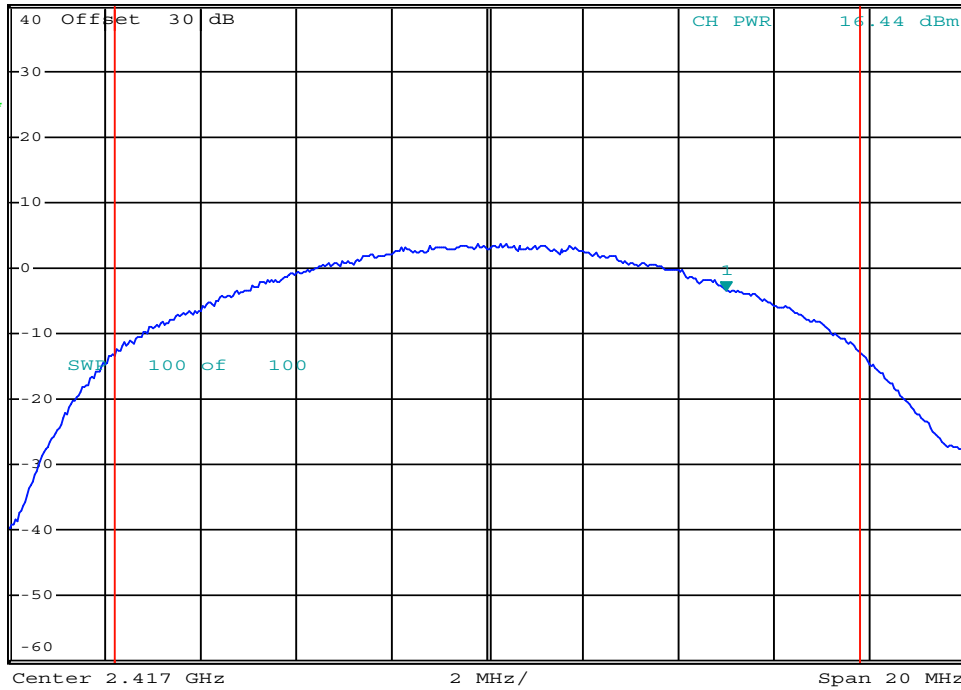


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -3.38 dBm
SWT 2.5 ms 2.422000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:51:39

Channel Number: 2

Channel Frequency (MHz): 2417

Channel Power (dBm): 16.44

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

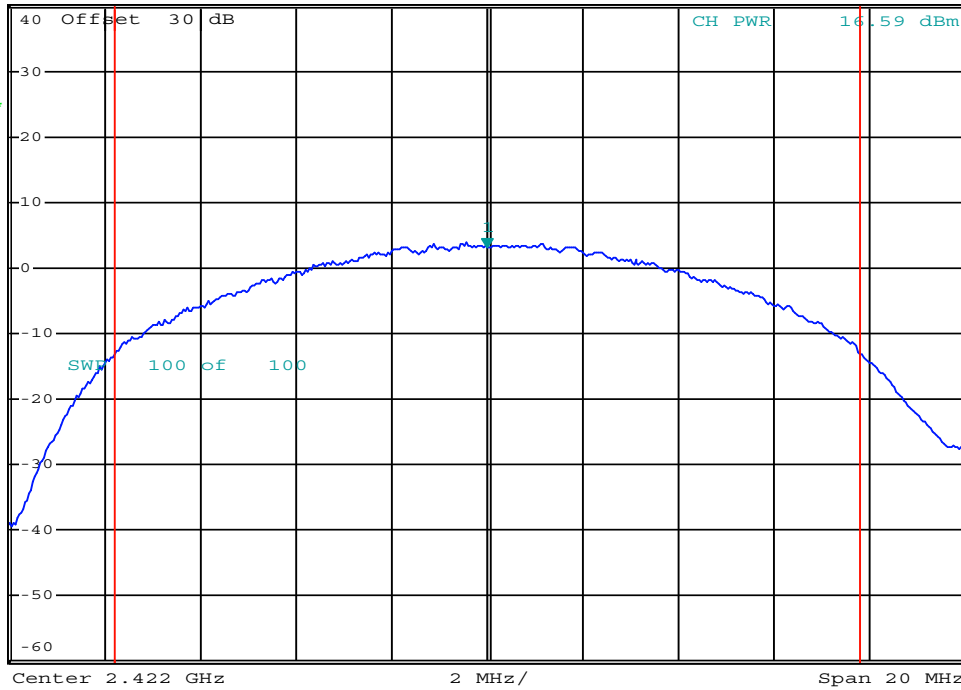


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz 3.10 dBm
SWT 2.5 ms 2.422000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM
VIEW



Date: 17.SEP.2022 14:52:22

Channel Number: 3

Channel Frequency (MHz): 2422

Channel Power (dBm): 16.59

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

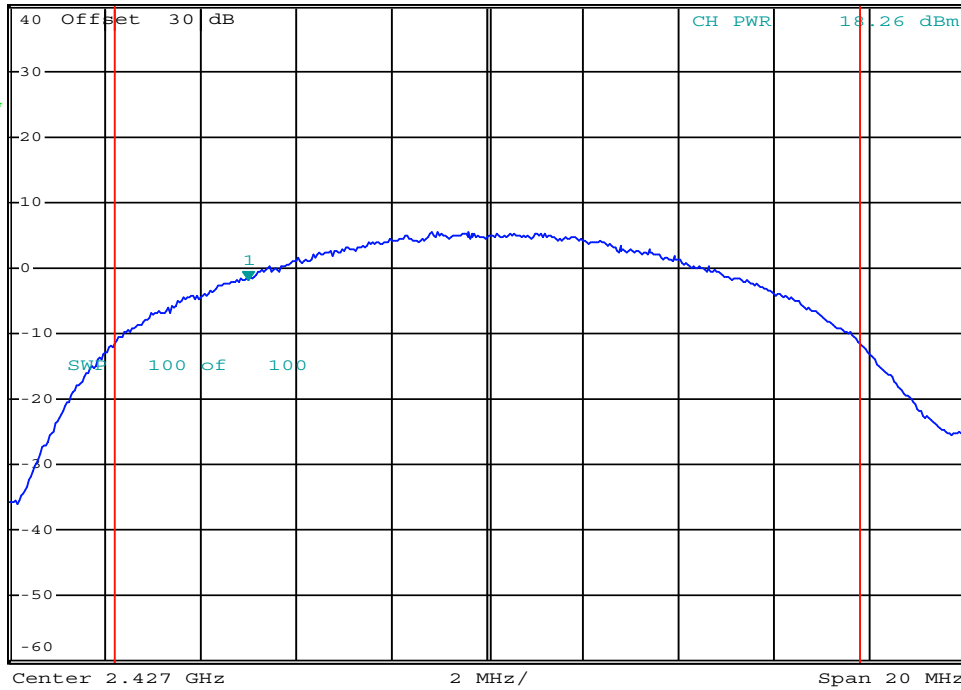


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -1.75 dBm
SWT 2.5 ms 2.422000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:53:05

Channel Number: **4**

Channel Frequency (MHz): **2427**

Channel Power (dBm): **18.26**

Modulation: **DSSS**

Bit Rate (Mbps): **5.5**

Conducted Output Power WiFi 802.11b

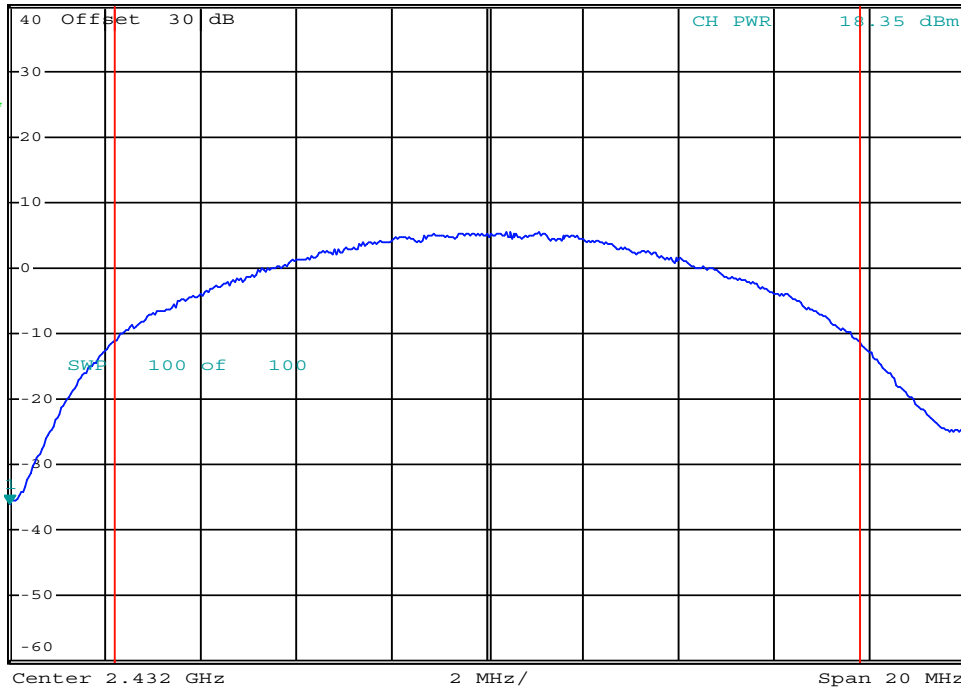


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -35.88 dBm
SWT 2.5 ms 2.422000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:53:54

Channel Number: 5

Channel Frequency (MHz): 2432

Channel Power (dBm): 18.35

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

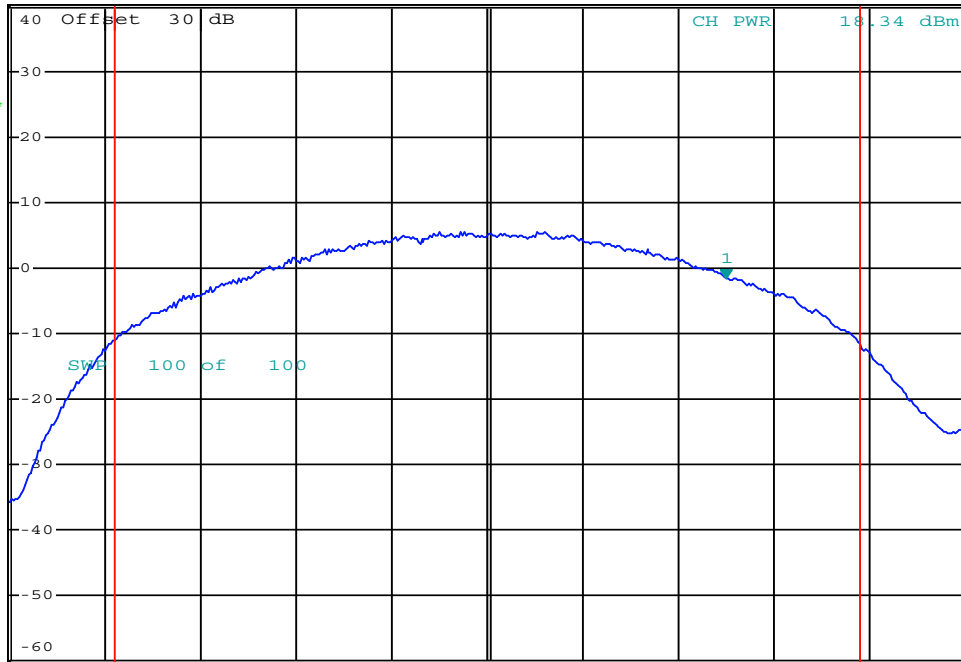


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -1.53 dBm
SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



A

LVL

TDF

3DB

Date: 17.SEP.2022 14:40:59

Channel Number: 7

Channel Frequency (MHz): 2442

Channel Power (dBm): 18.34

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

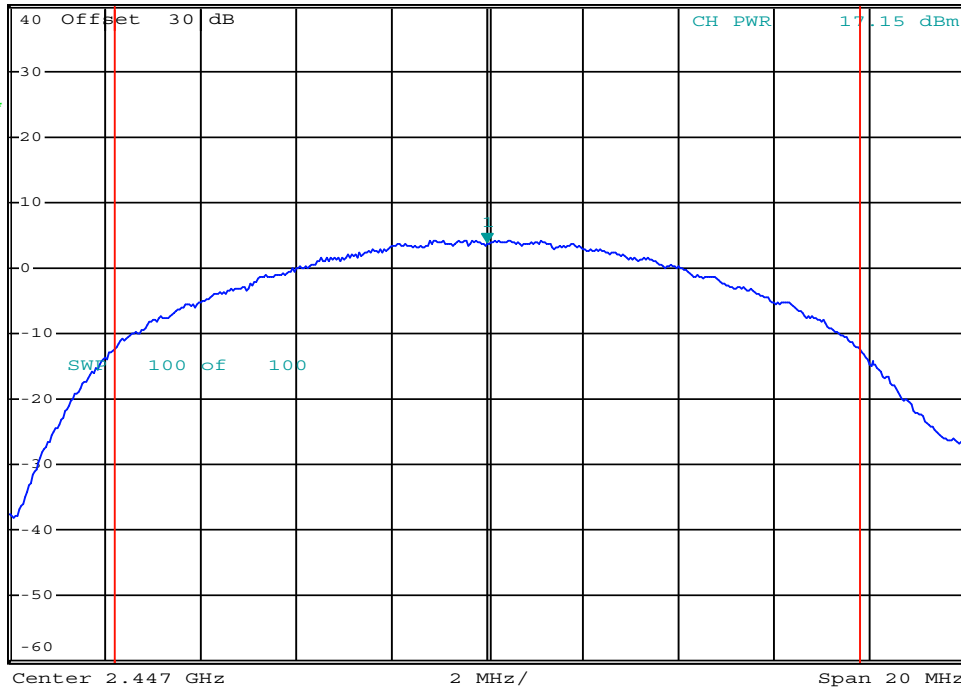


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz 3.88 dBm
SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM
VIEW



Date: 17.SEP.2022 14:45:27

Channel Number: 8

Channel Frequency (MHz): 2447

Channel Power (dBm): 17.15

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

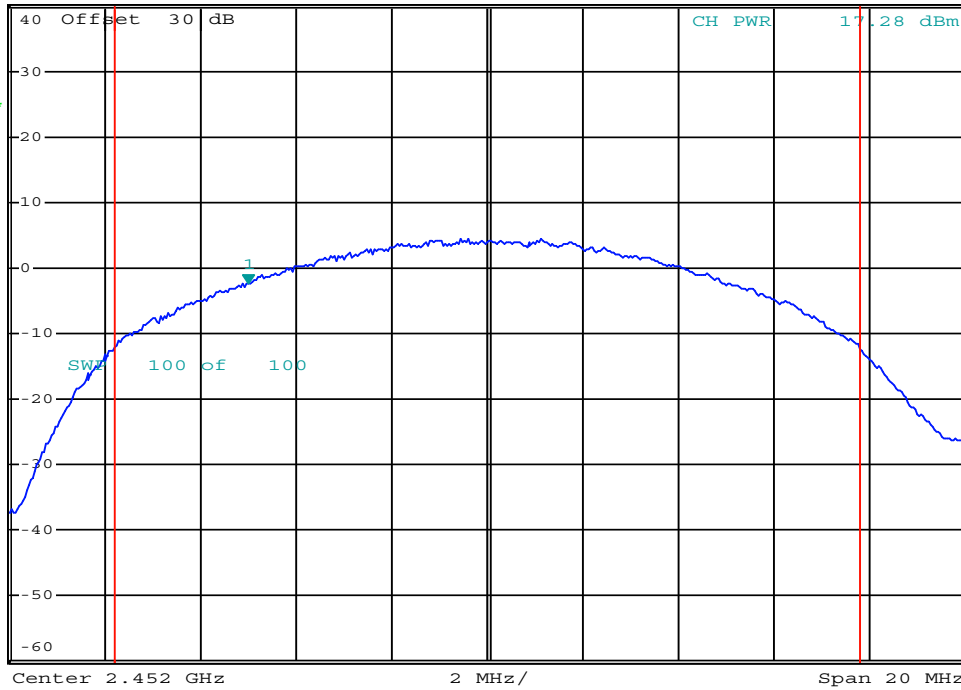


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -2.51 dBm
SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:46:30

Channel Number: 9

Channel Frequency (MHz): 2452

Channel Power (dBm): 17.28

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

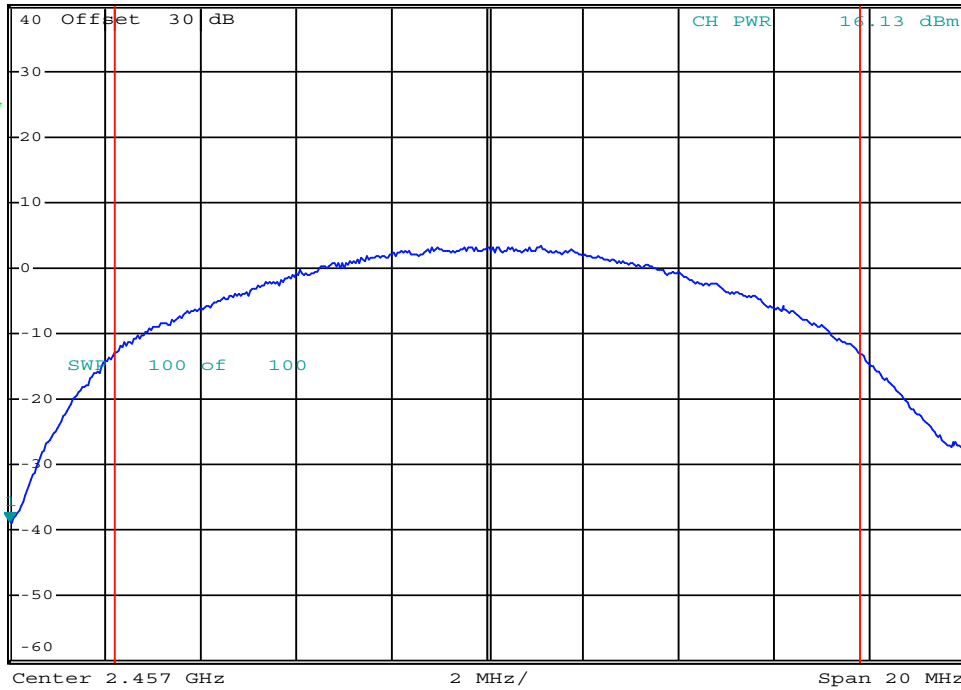


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -38.62 dBm
SWT 2.5 ms 2.447000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:47:17

Channel Number: 10

Channel Frequency (MHz): 2457

Channel Power (dBm): 16.13

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

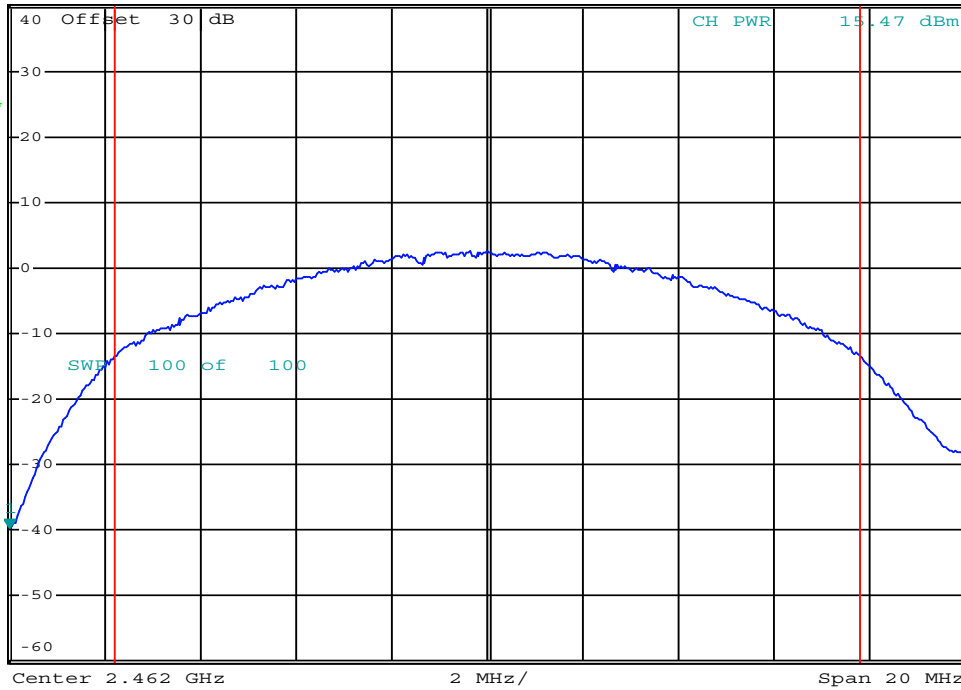


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -39.63 dBm
SWT 2.5 ms 2.452000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:48:08

Channel Number: 11

Channel Frequency (MHz): 2462

Channel Power (dBm): 15.47

Modulation: DSSS

Bit Rate (Mbps): 5.5

Conducted Output Power WiFi 802.11b

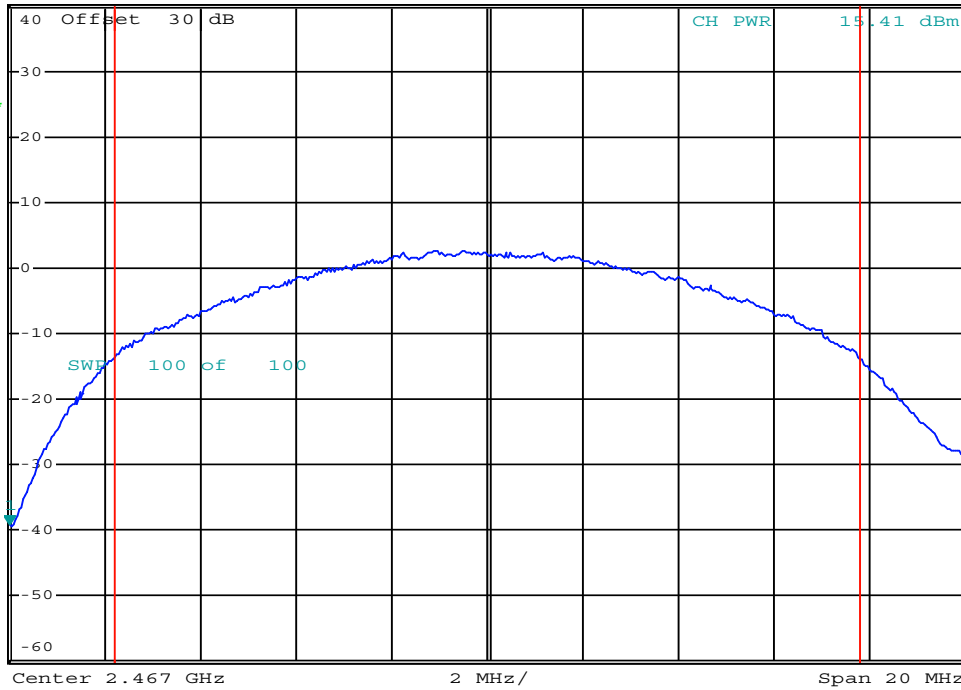


*RBW 300 kHz Marker 1 [T1]
 VBW 3 MHz -39.10 dBm
 SWT 2.5 ms 2.457000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
 VIEW



Date: 17.SEP.2022 14:48:57

Channel Number: **12**

Channel Frequency (MHz): **2467**

Channel Power (dBm): **15.41**

Modulation: **DSSS**

Bit Rate (Mbps): **5.5**

Conducted Output Power WiFi 802.11b

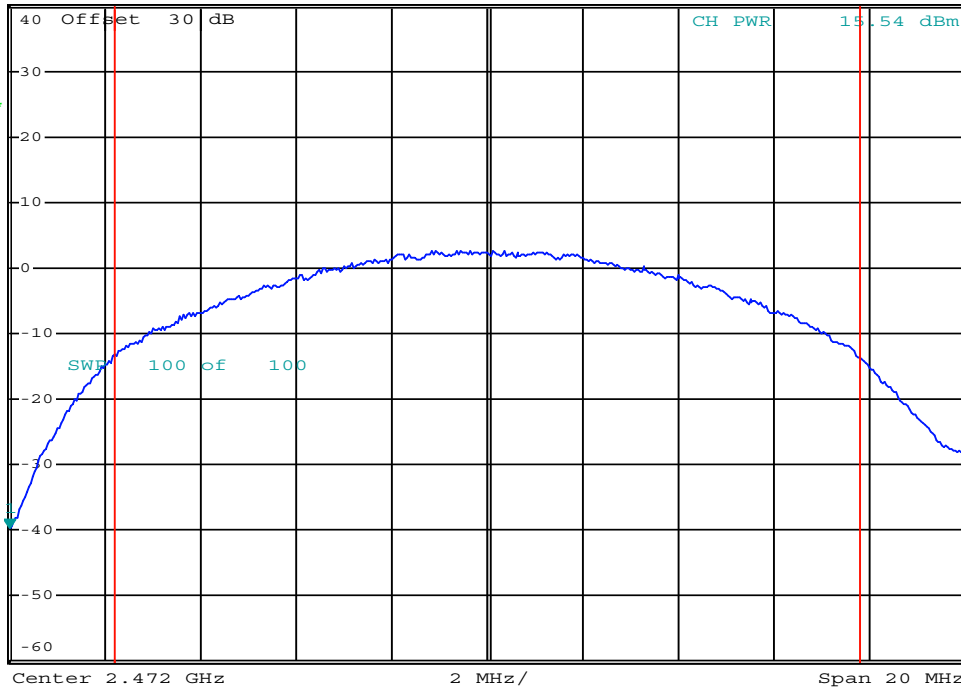


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -39.72 dBm
SWT 2.5 ms 2.462000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:49:40

Channel Number: **13**

Channel Frequency (MHz): **2472**

Channel Power (dBm): **15.54**

Modulation: **DSSS**

Bit Rate (Mbps): **5.5**

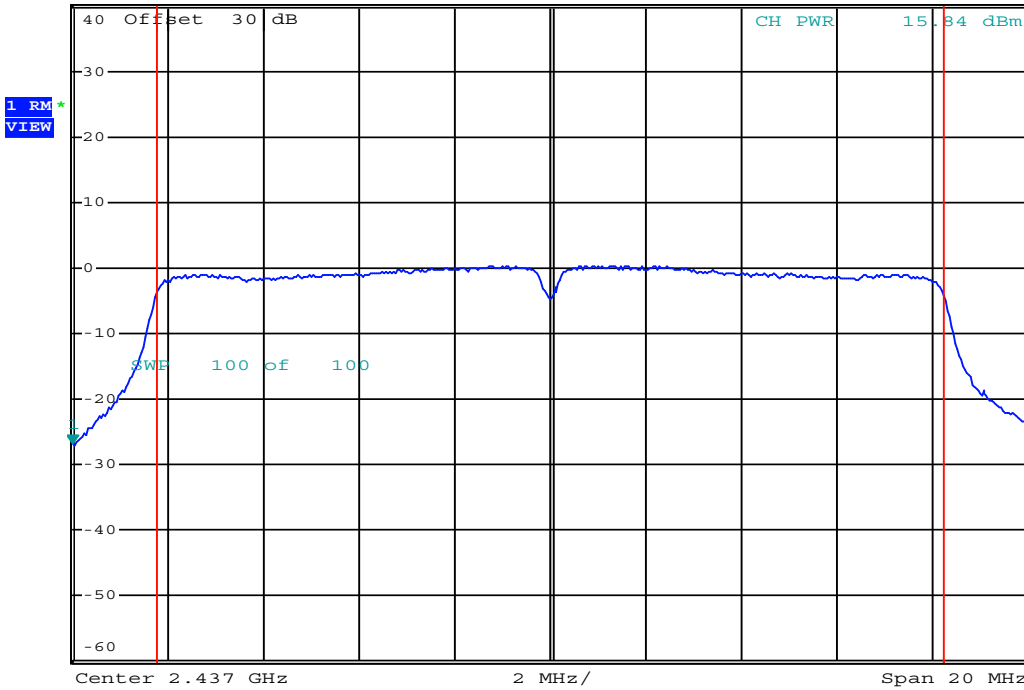
Conducted Output Power WiFi 802.11b



*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -26.82 dBm
SWT 2.5 ms 2.427000000 GHz

Ref 40 dBm

*Att 20 dB



Date: 17.SEP.2022 14:56:37

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 15.84

Modulation: OFDM

Bit Rate (Mbps): 6

Conducted Output Power WiFi 802.11b

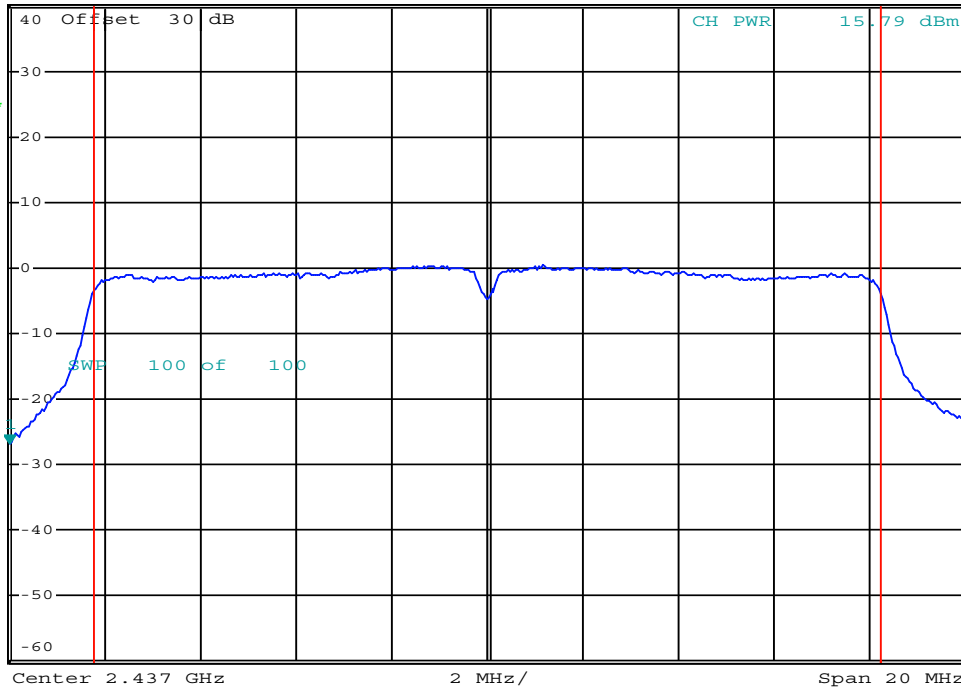


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -26.80 dBm
SWT 2.5 ms 2.427000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 14:57:32

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 15.79

Modulation: OFDM

Bit Rate (Mbps): 9

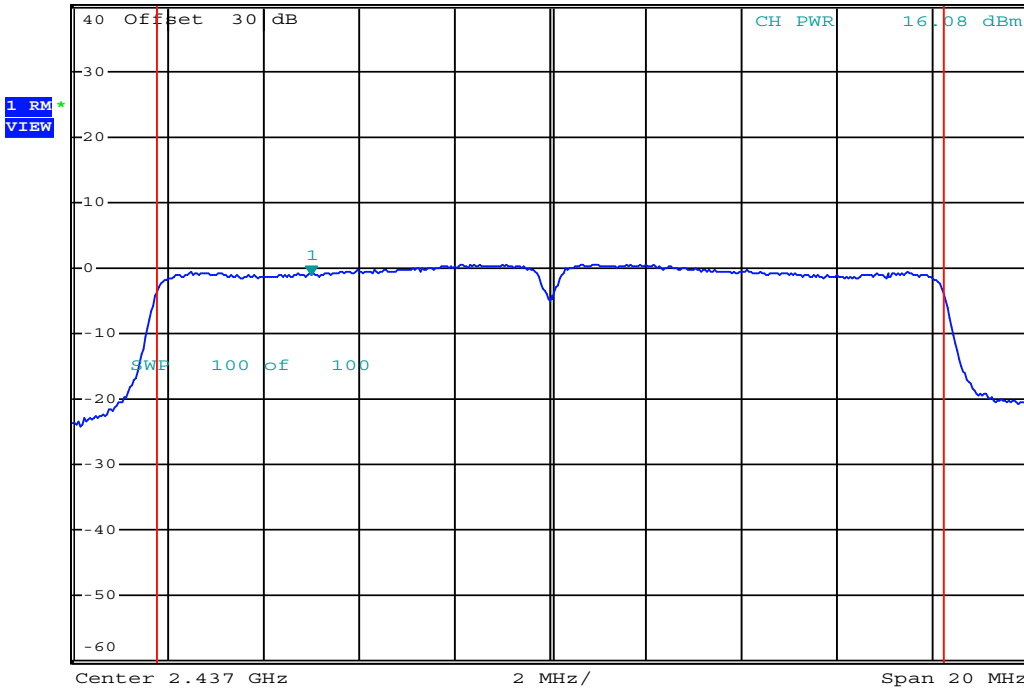
Conducted Output Power WiFi 802.11b



*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -0.96 dBm
SWT 2.5 ms 2.432000000 GHz

Ref 40 dBm

*Att 20 dB



Date: 17.SEP.2022 14:58:48

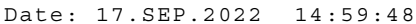
Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 16.08

Modulation: OFDM

Bit Rate (Mbps): 12



Channel Number: 6	Channel Frequency (MHz): 2437	Channel Power (dBm): 13.90
Modulation: OFDM	Bit Rate (Mbps): 36	

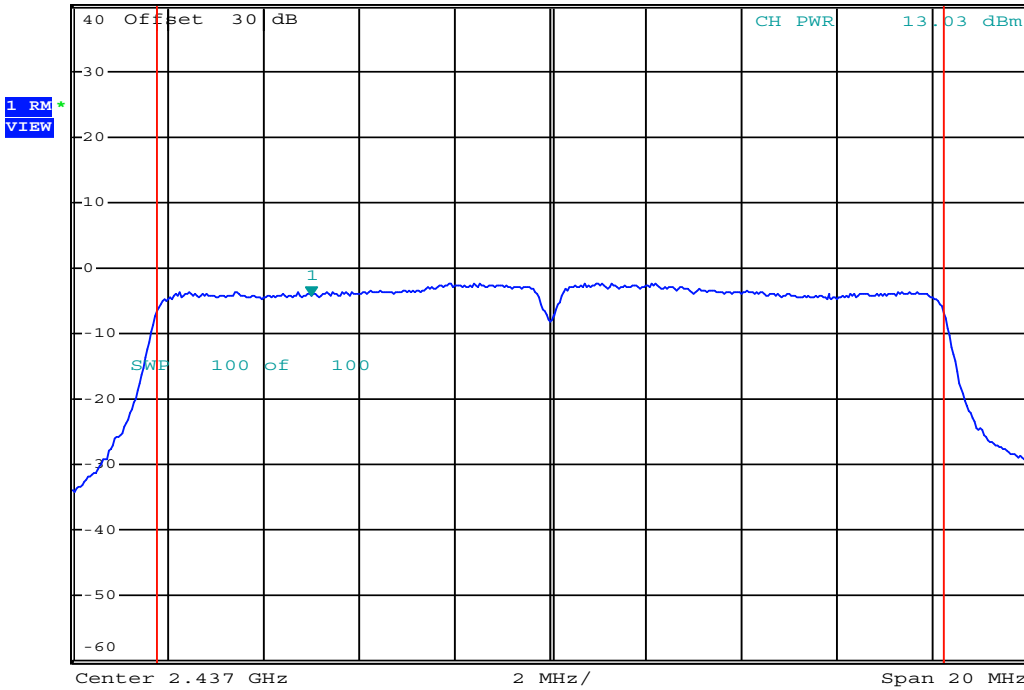
Conducted Output Power WiFi 802.11b



*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -4.14 dBm
SWT 2.5 ms 2.432000000 GHz

Ref 40 dBm

*Att 20 dB



Date: 17.SEP.2022 15:00:35

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 13.03

Modulation: OFDM

Bit Rate (Mbps): 54

Conducted Output Power WiFi 802.11b

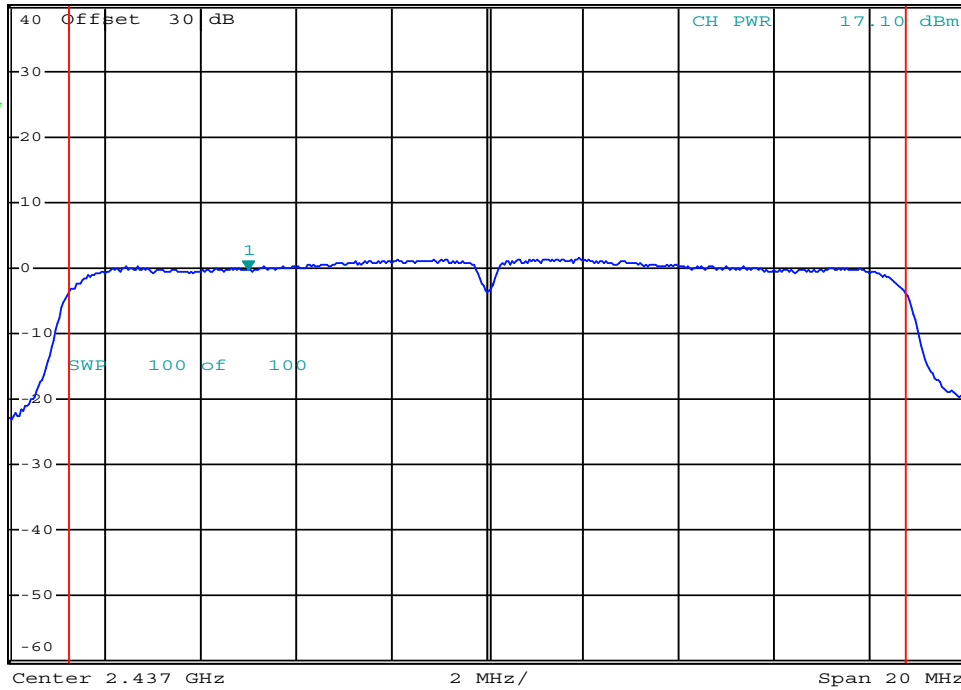


*RBW 300 kHz Marker 1 [T1]
 VBW 3 MHz -0.31 dBm
 SWT 2.5 ms 2.432000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
 VIEW



Date: 17.SEP.2022 15:13:23

Channel Number: **6**

Channel Frequency (MHz): **2437**

Channel Power (dBm): **17.10**

Modulation: **OFDM**

Bit Rate (Mbps): **MCS0**

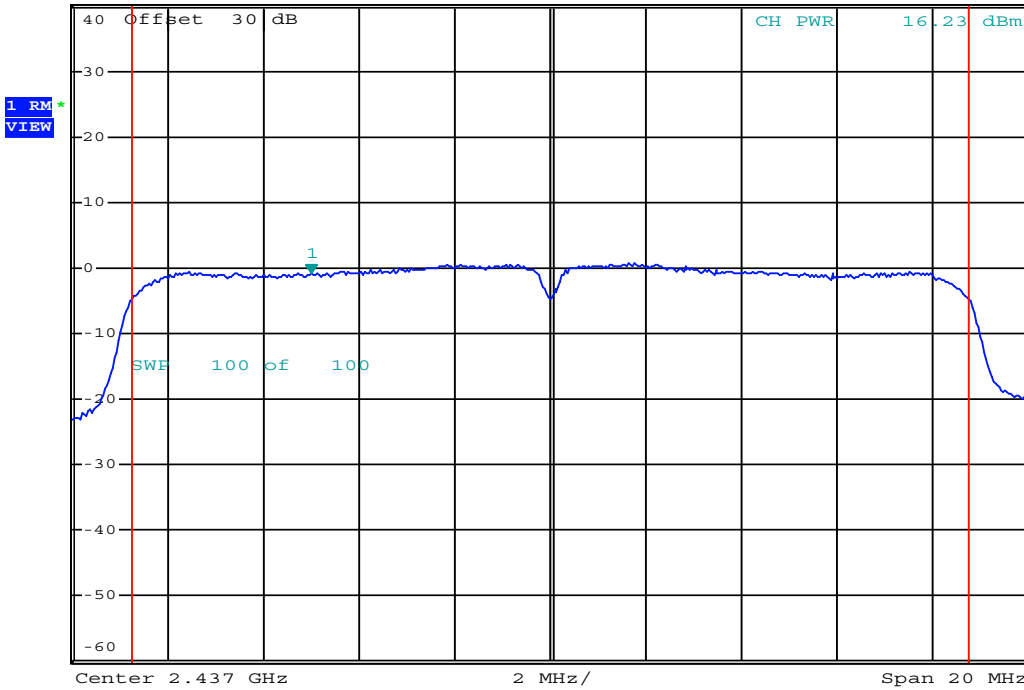
Conducted Output Power WiFi 802.11b



*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -0.71 dBm
SWT 2.5 ms 2.432000000 GHz

Ref 40 dBm

*Att 20 dB



Date: 17.SEP.2022 15:14:13

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 16.23

Modulation: OFDM

Bit Rate (Mbps): MCS3

Conducted Output Power WiFi 802.11b

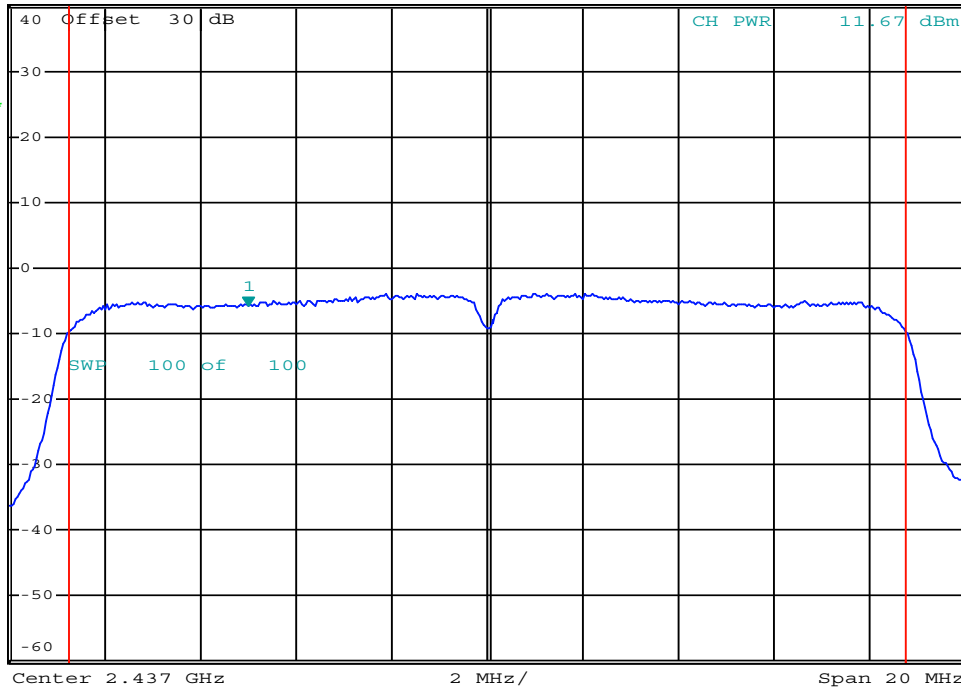


*RBW 300 kHz Marker 1 [T1]
VBW 3 MHz -5.81 dBm
SWT 2.5 ms 2.432000000 GHz

Ref 40 dBm

*Att 20 dB

1 RM*
VIEW



Date: 17.SEP.2022 15:14:58

Channel Number: 6

Channel Frequency (MHz): 2437

Channel Power (dBm): 11.67

Modulation: OFDM

Bit Rate (Mbps): MCS7

Conducted Power Measurement Results: BlueTooth													
Mode	Channel Number	Frequency (MHz)	Modulation	Bit Rate (Mbps)	Transmit Duty Cycle (%)	Measured Power [P _{Meas}] (dBm)	Conducted Limit [P _{Lim}] (dBm)	Conducted Margin (dB)	Antenna Gain (dBi)	EIRP [E _{Meas}] (dBm)	EIRP Limit [E _{Lim}] (dBm)	EIRP Margin (dB)	Result
BT BR	2	2402.00	GFSK	-	100.00	8.44	30	21.6	-3.6	4.84	36	31.2	Complies
	40	2440.00	GFSK	-		9.02		21.0		5.42		30.6	Complies
	80	2480.00	GFSK	-		8.89		21.1		5.29		30.7	Complies
BT EDR2	2	2402.00	P1/4-DQPSK	2		8.51		21.5		4.91		31.1	Complies
	40	2440.00	P1/4-DQPSK	2		9.21		20.8		5.61		30.4	Complies
	80	2480.00	P1/4-DQPSK	2		9.48		20.5		5.88		30.1	Complies
BTEDR3	2	2402.00	8-DPSK	3		7.99		22.0		4.39		31.6	Complies
	41	2441.00	8-DPSK	3		8.45		21.6		4.85		31.2	Complies
	80	2480.00	8-DPSK	3		8.78		21.2		5.18		30.8	Complies

Conducted Margin = P_{Limit} - P_{Meas}

EIRP Margin = E_{Limit} - E_{Meas}

Conducted Output Power: Bluetooth

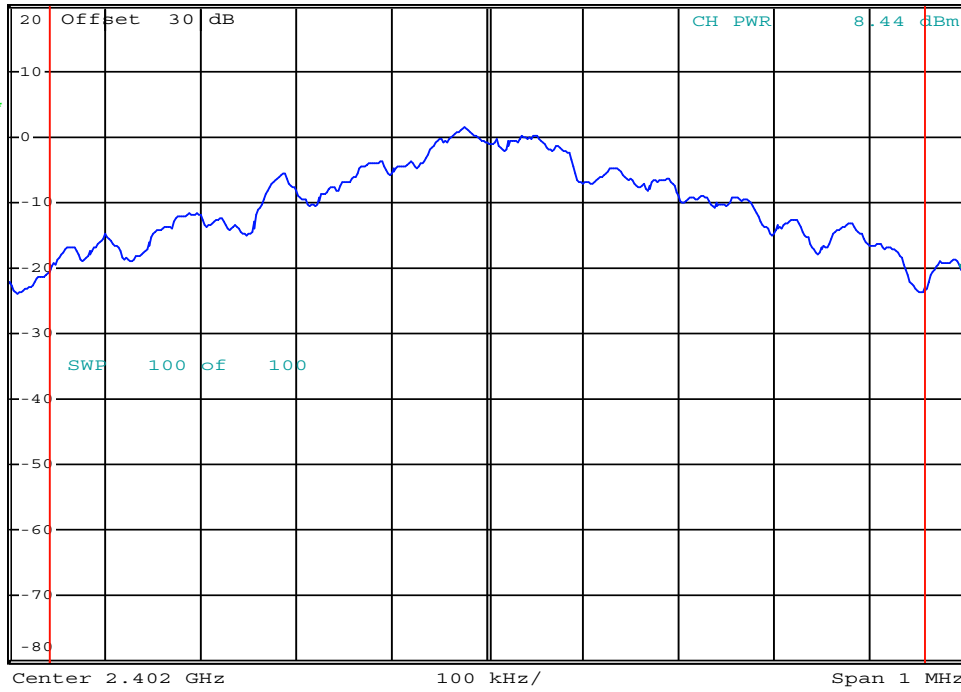


*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -20.78 dBm
SWT 2.5 ms 2.402500000 GHz

Ref 20 dBm

*Att 0 dB

1 RM
VIEW



Date: 16.SEP.2022 14:45:45

Channel Number: 2

Channel Frequency (MHz): 2402

Channel Power (dBm): 8.44

Modulation: GFSK

Bit Rate (Mbps): -

Conducted Output Power: Bluetooth

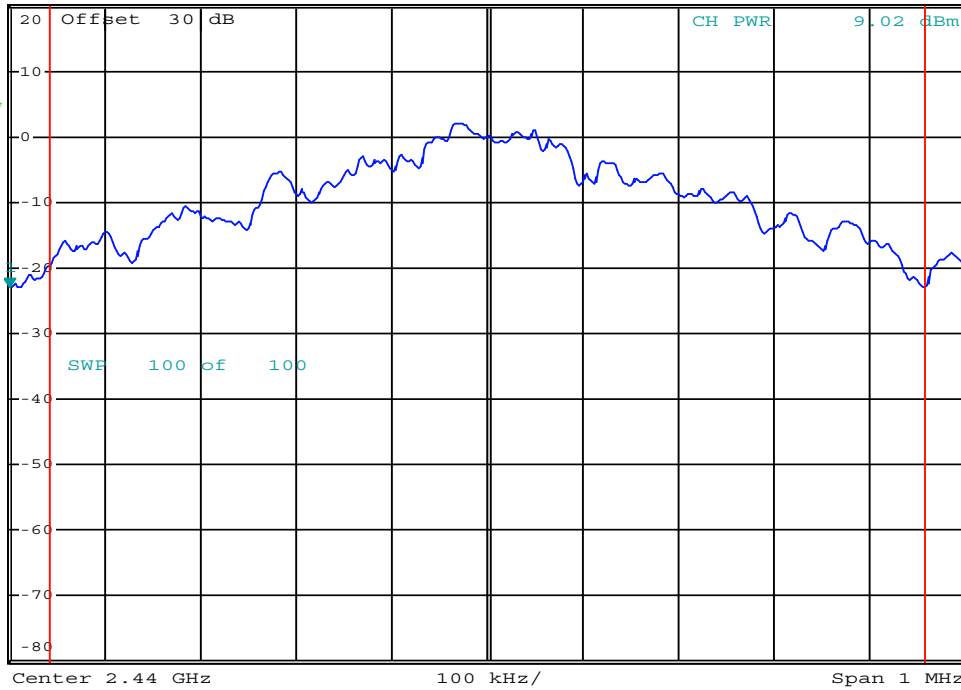


*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -23.02 dBm
SWT 2.5 ms 2.439500000 GHz

Ref 20 dBm

*Att 0 dB

1 RM
VIEW



Date: 16.SEP.2022 14:48:19

Channel Number: **40**

Channel Frequency (MHz): **2440**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

Channel Power (dBm):

9.02

Conducted Output Power: Bluetooth

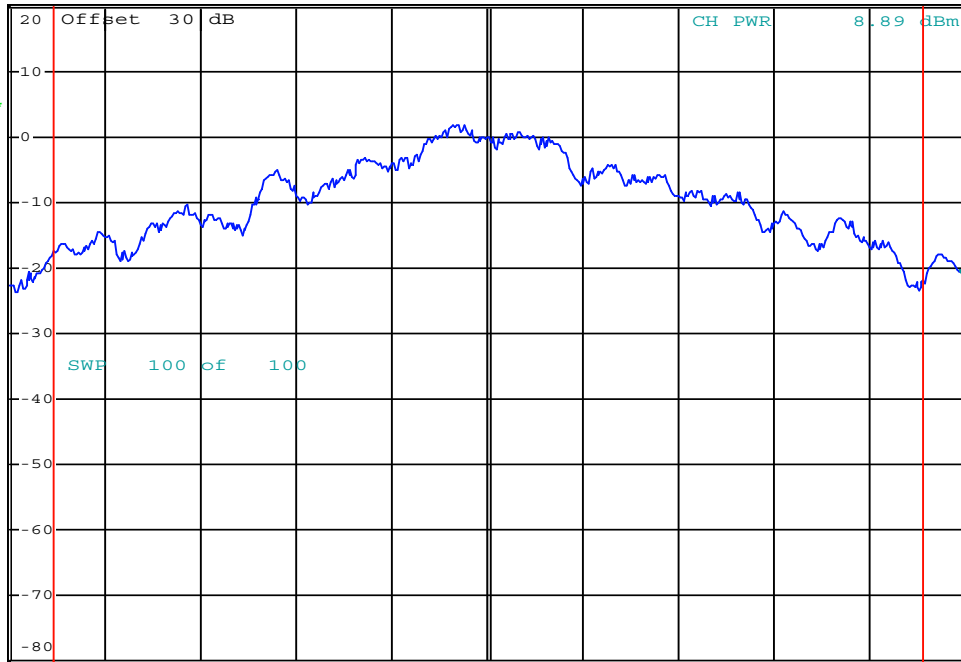


*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -21.61 dBm
SWT 5 ms 2.480500000 GHz

Ref 20 dBm

*Att 0 dB

1 RM
VIEW



Center 2.48 GHz

100 kHz/

Span 1 MHz

Date: 30.OCT.2022 10:42:42

Channel Number: **80**

Channel Frequency (MHz): **2480**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

Channel Power (dBm):

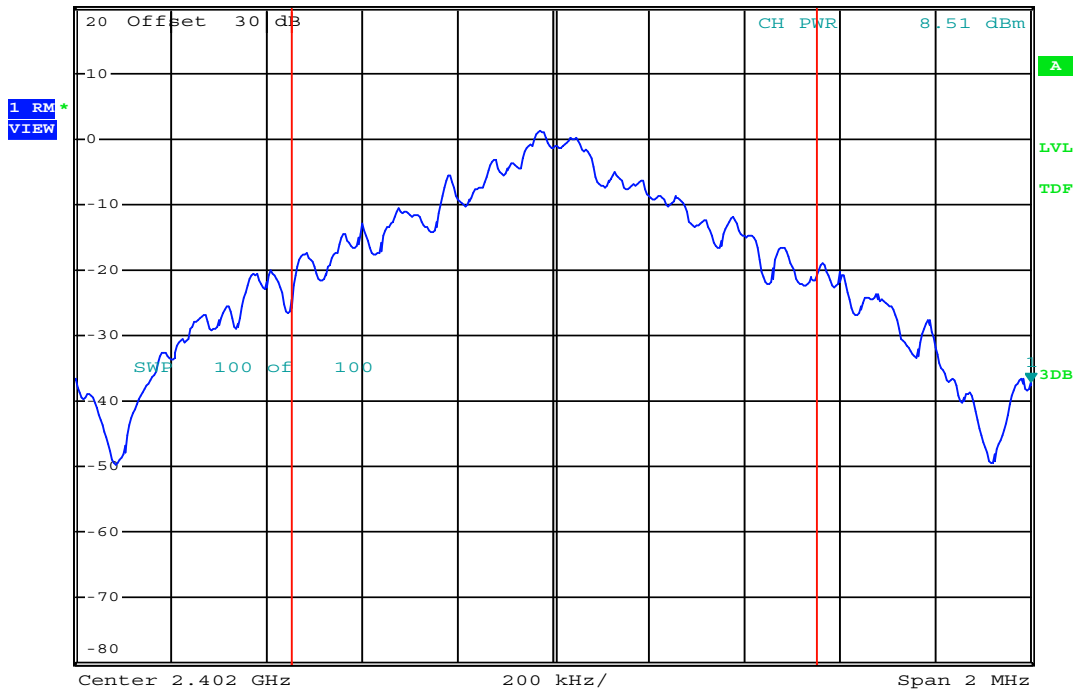
8.89

Conducted Output Power: Bluetooth



*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -37.10 dBm
SWT 2.5 ms 2.403000000 GHz

Ref 20 dBm *Att 0 dB



Date: 16.SEP.2022 15:04:59

Channel Number: 2

Channel Frequency (MHz): 2402

Channel Power (dBm): 8.51

Modulation: P1/4-DQPSK

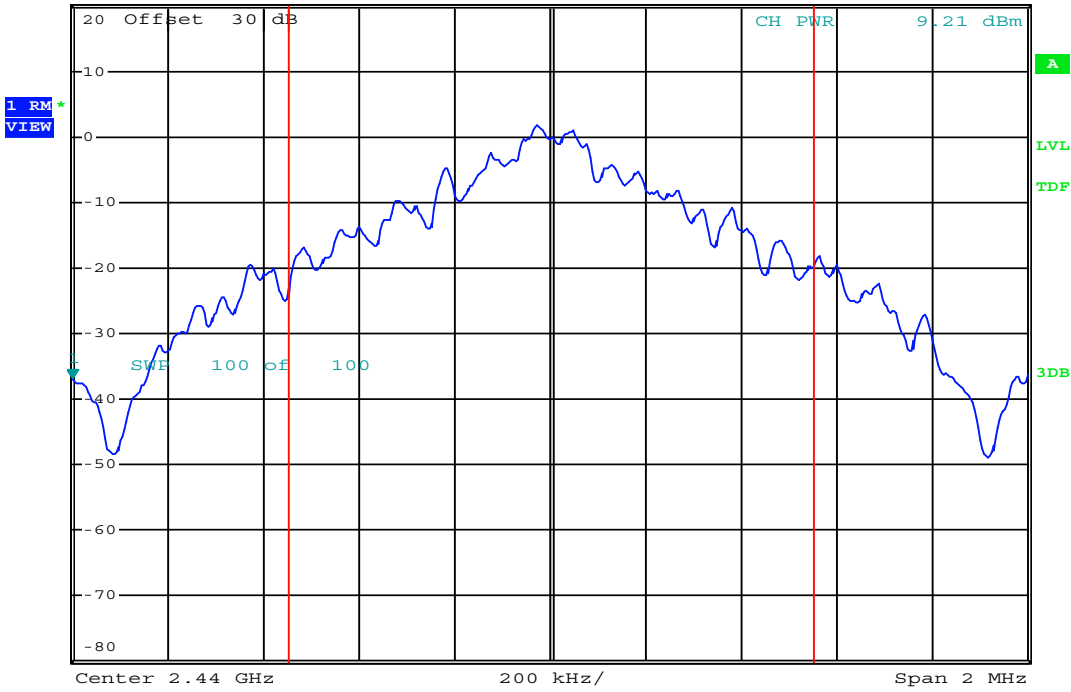
Bit Rate (Mbps): 2

Conducted Output Power: Bluetooth



*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -36.95 dBm
SWT 2.5 ms 2.439000000 GHz

Ref 20 dBm *Att 0 dB



Date: 16.SEP.2022 15:03:33

Channel Number: **40**

Channel Frequency (MHz): **2440**

Channel Power (dBm): **9.21**

Modulation: **P1/4-DQPSK**

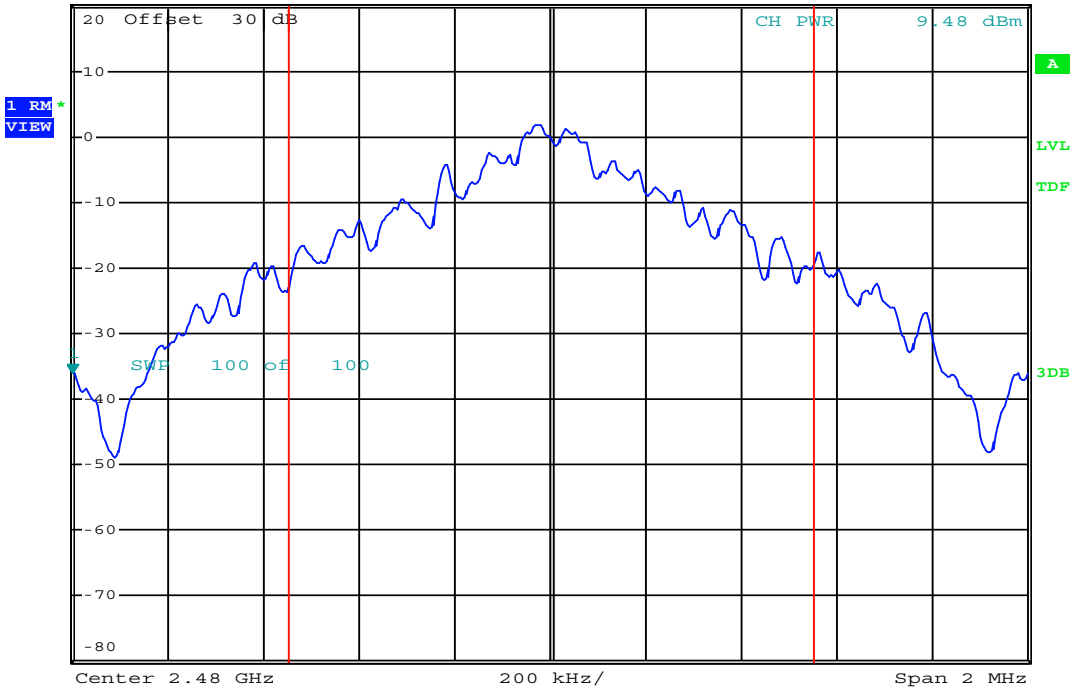
Bit Rate (Mbps): **2**

Conducted Output Power: Bluetooth



*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -36.00 dBm
SWT 2.5 ms 2.479000000 GHz

Ref 20 dBm *Att 0 dB



Date: 16.SEP.2022 15:04:21

Channel Number: **80**

Channel Frequency (MHz): **2480**

Channel Power (dBm): **9.48**

Modulation: P1/4-DQPSK

Bit Rate (Mbps): **2**

Conducted Output Power: Bluetooth

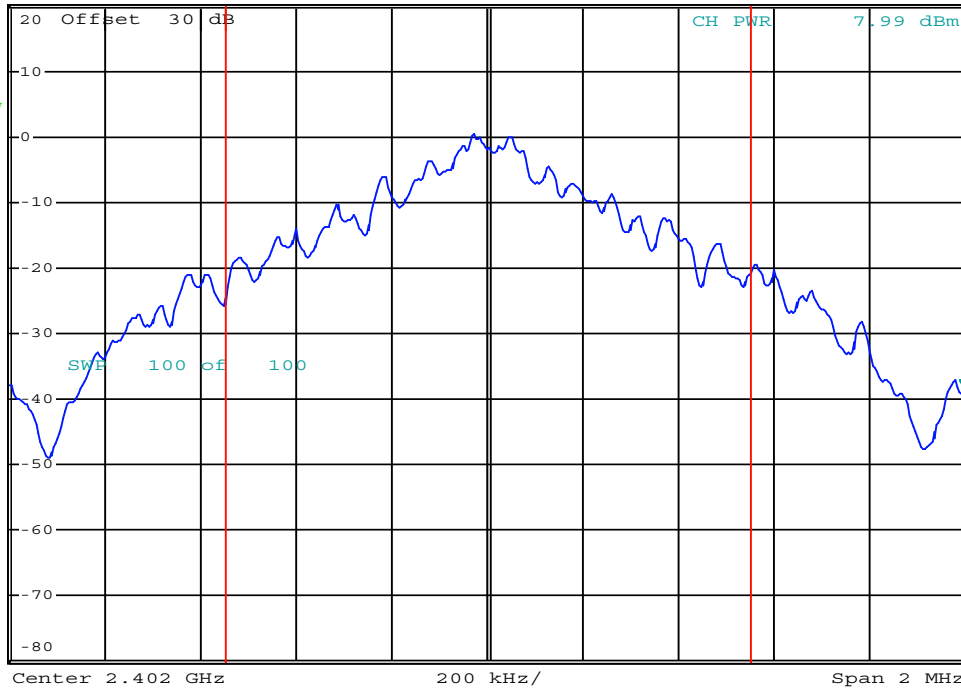


*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -38.43 dBm
SWT 2.5 ms 2.403000000 GHz

Ref 20 dBm

*Att 0 dB

1 RM
VIEW



Date: 16.SEP.2022 15:45:32

Channel Number: 2

Channel Frequency (MHz): 2402

Channel Power (dBm): 7.99

Modulation: 8-DPSK

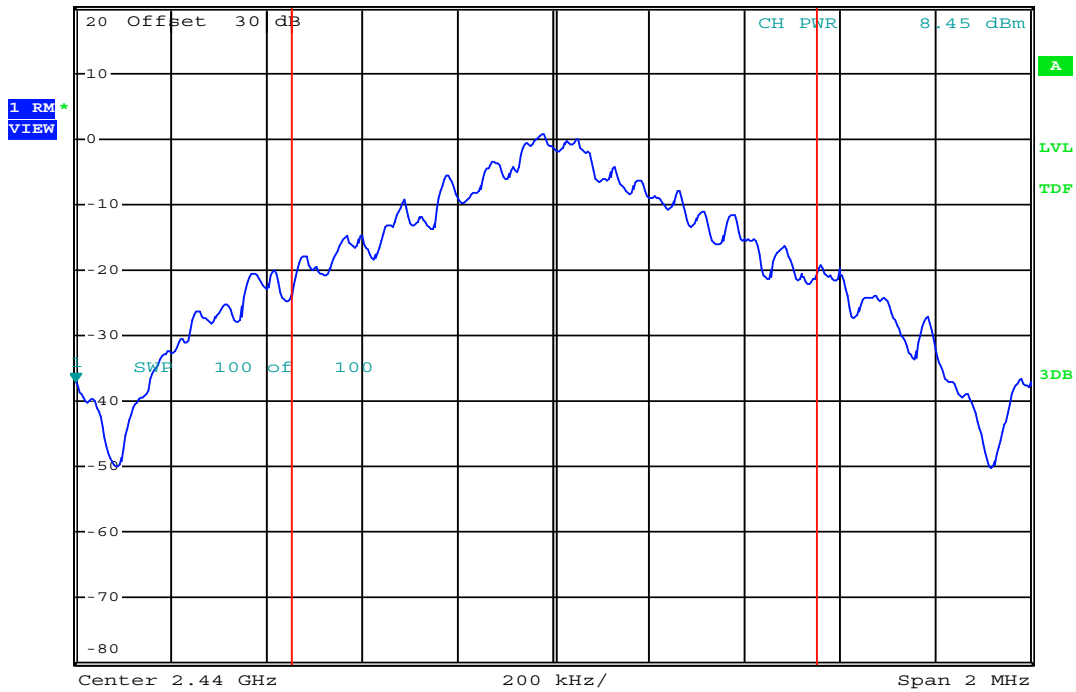
Bit Rate (Mbps): 3

Conducted Output Power: Bluetooth



*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -37.06 dBm
SWT 2.5 ms 2.439000000 GHz

Ref 20 dBm *Att 0 dB



Date: 16.SEP.2022 15:46:12

Channel Number: **40**

Channel Frequency (MHz): **2440**

Channel Power (dBm): **8.45**

Modulation: **8-DPSK**

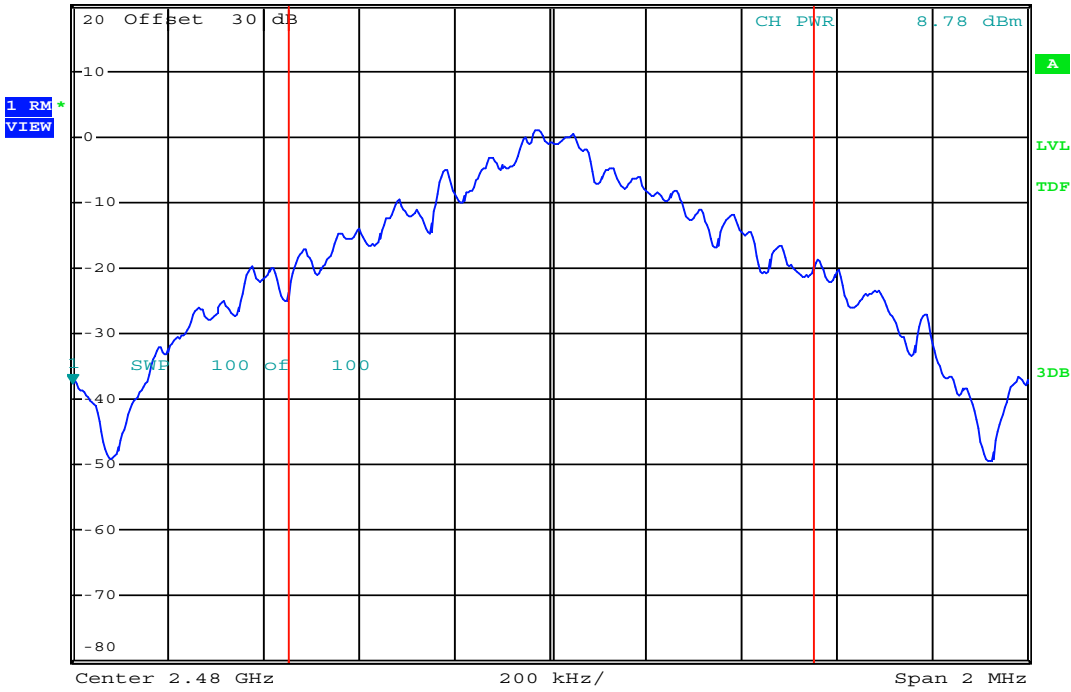
Bit Rate (Mbps): **3**

Conducted Output Power: Bluetooth



*RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -37.49 dBm
SWT 2.5 ms 2.479000000 GHz

Ref 20 dBm *Att 0 dB



Date: 16.SEP.2022 15:45:02

Channel Number: **80**

Channel Frequency (MHz): **2480**

Channel Power (dBm): **8.78**

Modulation: **8-DPSK**

Bit Rate (Mbps): **3**