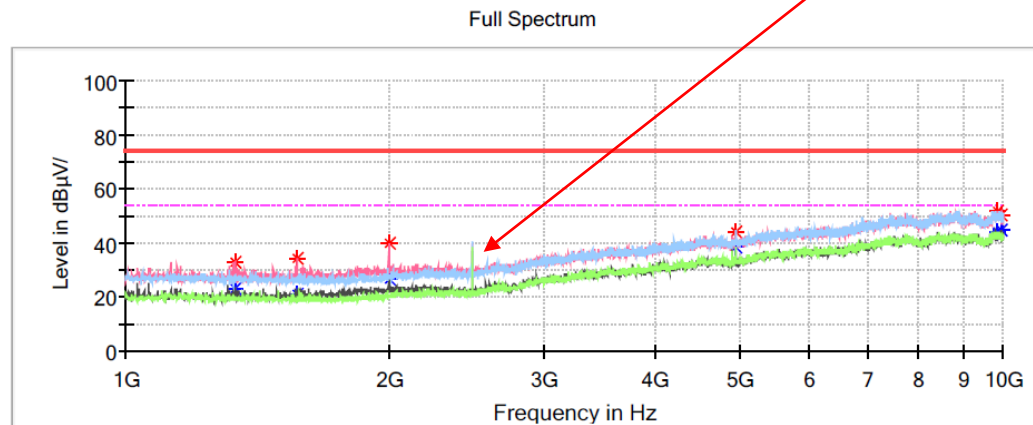


High Channel: 2480 MHz**Common Information**

Project No.:	RKSB250929007
EUT Model:	9290042914
Test Mode:	Transmitting in BLE-1M High Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	51%
Atmospheric Pressure:	103.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/21

Fundamental test with
Band Reject Filter

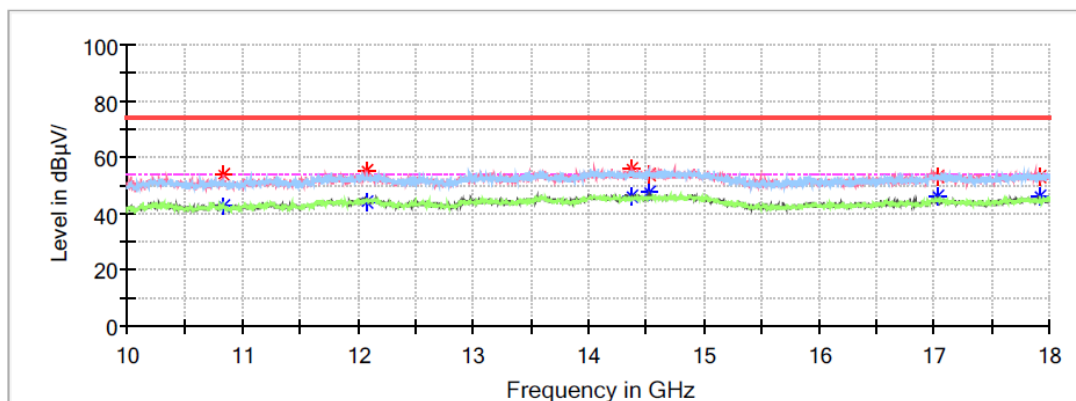
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1329.400000	---	23.00	54.00	31.00	V	-14.0
1329.400000	33.04	---	74.00	40.96	V	-14.0
1568.800000	---	20.87	54.00	33.13	V	-13.0
1568.800000	34.57	---	74.00	39.43	V	-13.0
1992.700000	---	26.82	54.00	27.18	V	-10.1
1992.700000	40.07	---	74.00	33.93	V	-10.1
4960.000000	---	38.41	54.00	15.59	H	-3.0
4960.000000	44.40	---	74.00	29.60	H	-3.0
9836.200000	---	44.07	54.00	9.93	V	5.8
9836.200000	52.01	---	74.00	21.99	V	5.8
9933.400000	---	44.46	54.00	9.54	V	6.2
9933.400000	50.62	---	74.00	23.38	V	6.2

10GHz-18GHz (BLE 1 Mbps):**Low Channel: 2402 MHz****Common Information**

Project No.: RKSB250929007
 EUT Model: 9290042914
 Test Mode: Transmitting in BLE-1M Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 103.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/21

Full Spectrum

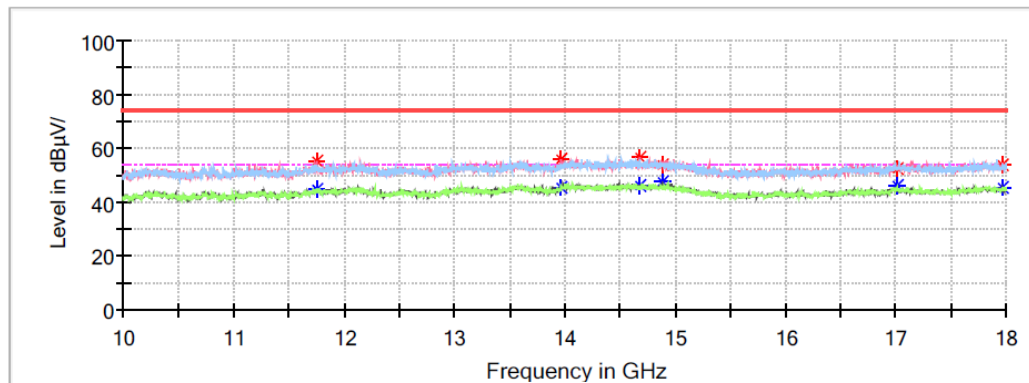
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10835.200000	---	42.73	54.00	11.27	V	6.6
10835.200000	53.87	---	74.00	20.13	V	6.6
12078.400000	55.03	---	74.00	18.97	V	9.0
12078.400000	---	44.34	54.00	9.66	V	9.0
14382.400000	56.14	---	74.00	17.86	V	11.8
14382.400000	---	45.82	54.00	8.18	V	11.8
14526.400000	53.82	---	74.00	20.18	H	11.9
14526.400000	---	47.33	54.00	6.67	H	11.9
17033.600000	52.84	---	74.00	21.16	V	10.9
17033.600000	---	46.09	54.00	7.91	V	10.9
17916.800000	---	45.94	54.00	8.06	H	11.5
17916.800000	53.21	---	74.00	20.79	H	11.5

Middle Channel: 2440 MHz**Common Information**

Project No.: RKS250929007
 EUT Model: 9290042914
 Test Mode: Transmitting in BLE-1M Middle Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 103.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/21

Full Spectrum

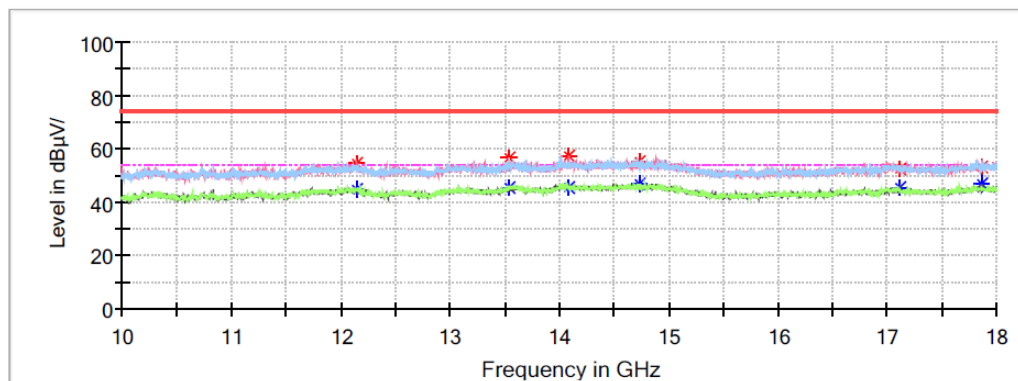
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11755.200000	54.98	---	74.00	19.02	V	8.6
11755.200000	---	44.58	54.00	9.42	V	8.6
13961.600000	56.07	---	74.00	17.93	V	11.0
13961.600000	---	45.42	54.00	8.58	V	11.0
14680.000000	56.72	---	74.00	17.28	H	11.4
14680.000000	---	46.01	54.00	7.99	H	11.4
14878.400000	54.02	---	74.00	19.98	V	10.7
14878.400000	---	47.60	54.00	6.40	V	10.7
17012.800000	52.25	---	74.00	21.75	V	10.9
17012.800000	---	45.83	54.00	8.17	V	10.9
17974.400000	---	45.73	54.00	8.27	H	11.7
17974.400000	53.80	---	74.00	20.20	H	11.7

High Channel: 2480 MHz**Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

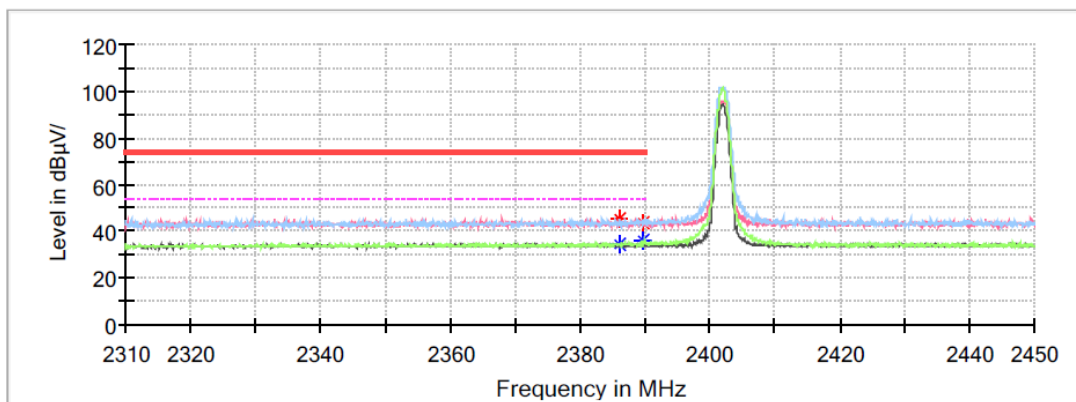
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12152.000000	---	44.58	54.00	9.42	H	9.0
12152.000000	54.29	---	74.00	19.71	H	9.0
13547.200000	56.94	---	74.00	17.06	H	10.1
13547.200000	---	45.51	54.00	8.49	H	10.1
14084.800000	---	45.37	54.00	8.63	V	11.2
14084.800000	57.01	---	74.00	16.99	V	11.2
14726.400000	---	46.93	54.00	7.07	H	11.2
14726.400000	55.05	---	74.00	18.95	H	11.2
17107.200000	---	45.63	54.00	8.37	V	10.8
17107.200000	52.22	---	74.00	21.78	V	10.8
17868.800000	---	46.60	54.00	7.40	V	11.4
17868.800000	53.07	---	74.00	20.93	V	11.4

Restricted Bands Emission:**Left Side****Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

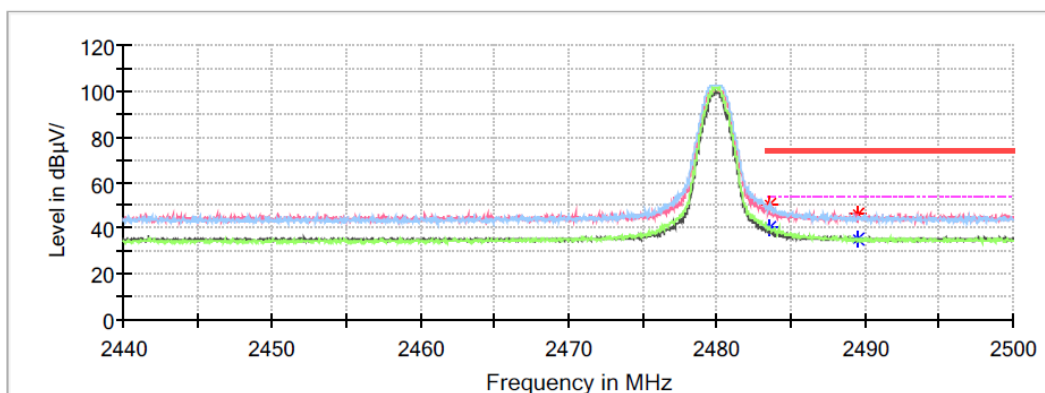
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.104000	45.54	---	74.00	28.46	H	0.2
2386.104000	---	34.08	54.00	19.92	H	0.2
2389.632000	43.27	---	74.00	30.73	V	0.2
2389.632000	---	35.90	54.00	18.10	V	0.2

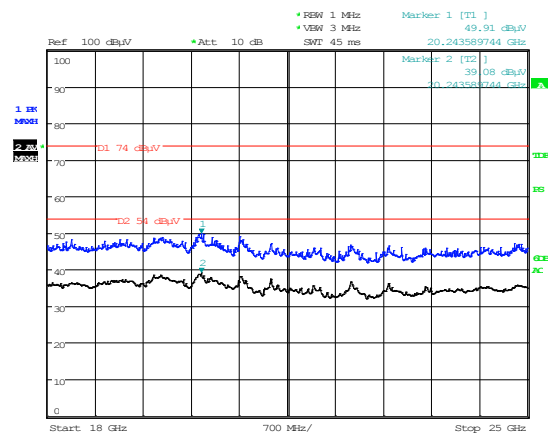
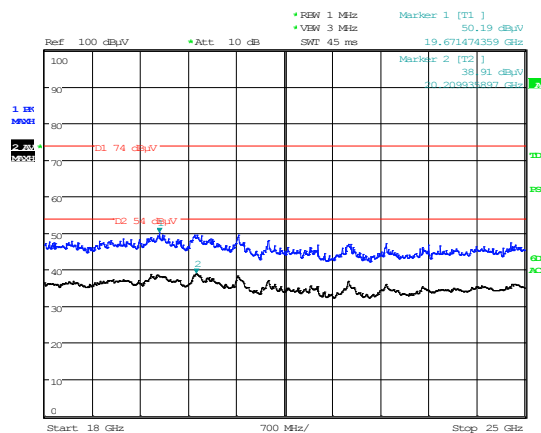
Right Side**Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.536000	50.70	---	74.00	23.30	H	0.4
2483.536000	---	40.47	54.00	13.53	H	0.4
2489.536000	---	35.15	54.00	18.85	V	0.4
2489.536000	46.31	---	74.00	27.69	V	0.4

18 GHz - 25 GHz (Transmitting in maximum output power mode BLE (1 Mbps) low channel):**Horizontal****Vertical**

Project No.: RKS250929007 Tester: Hugh Wu
Date: 30.OCT.2025 09:34:21

Project No.: RKS250929007 Tester: Hugh Wu
Date: 30.OCT.2025 10:08:38

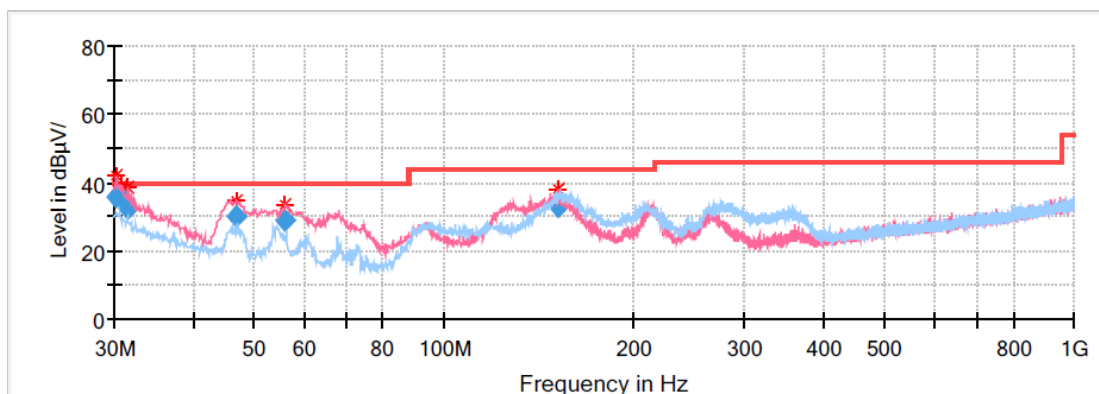
Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.24	---	39.08	54	14.92	H	12.5
20.24	49.91	---	74	24.09	H	12.5
20.21	---	38.91	54	15.09	V	12.47
19.67	50.19	---	74	23.81	V	11.33

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

30 MHz-1 GHz (Transmitting in maximum output power mode BLE (2 Mbps) low channel):
Low Channel: 2402 MHz

Common Information

Project No: RKSB250929007
EUT Model: 9290042914
Test Mode: BLE 2M
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 22.2°C
Humidity: 54%
Barometric Pressure: 103.1kPa
Test Engineer: Scarf Yang
Test Date: 2025/10/20



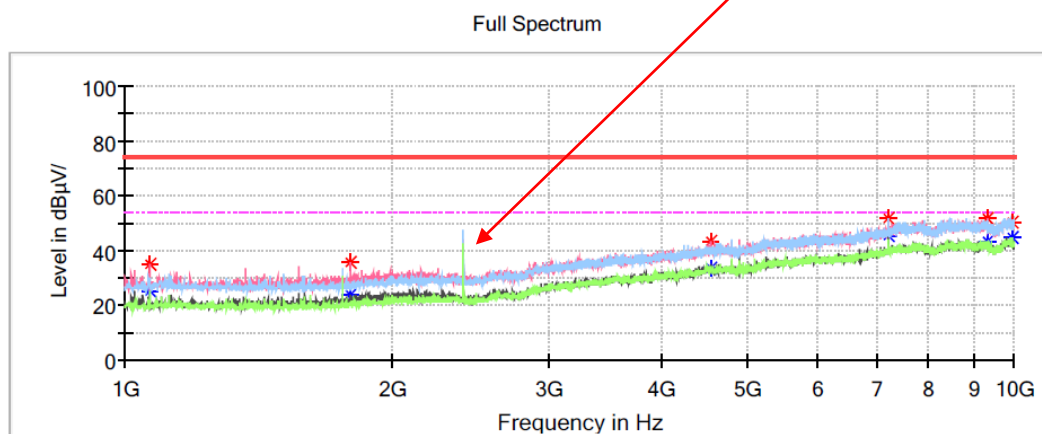
Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.242500	35.62	40.00	4.38	V	-4.8
30.970000	34.96	40.00	5.04	V	-5.0
31.576250	32.18	40.00	7.82	V	-5.1
46.975000	30.13	40.00	9.87	V	-15.4
56.068750	29.01	40.00	10.99	V	-17.1
151.613750	32.67	43.50	10.83	V	-11.7

1GHz-10GHz (BLE 2 Mbps):**Low Channel: 2402 MHz****Common Information**

Project No.:	RKSB250929007
EUT Model:	9290042914
Test Mode:	Transmitting in BLE-2M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	51%
Atmospheric Pressure:	103.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/21

Fundamental test with
Band Reject Filter

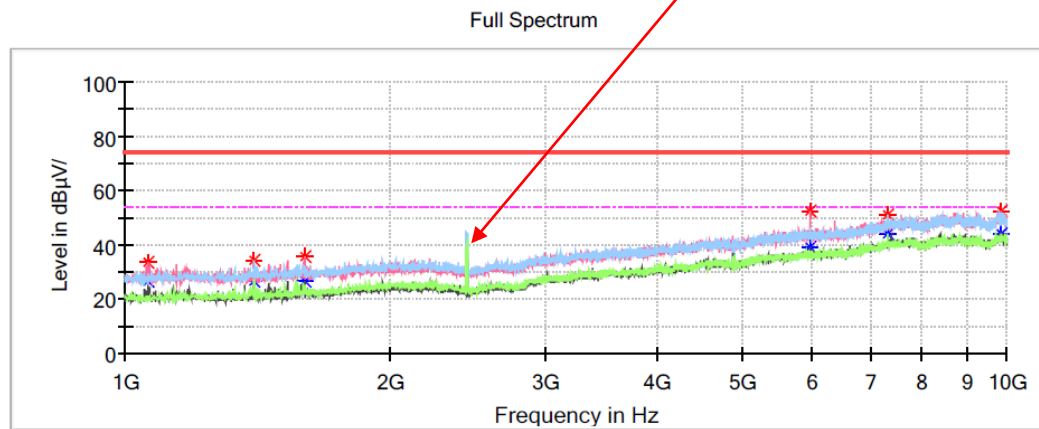
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1065.700000	---	24.83	54.00	29.17	H	-15.0
1066.600000	34.64	---	74.00	39.36	H	-15.0
1788.400000	---	23.85	54.00	30.15	V	-11.5
1788.400000	35.65	---	74.00	38.35	V	-11.5
4549.600000	---	33.74	54.00	20.26	H	-4.1
4549.600000	43.62	---	74.00	30.38	H	-4.1
7204.600000	51.69	---	74.00	22.31	V	2.1
7207.300000	---	45.24	54.00	8.76	V	2.1
9316.000000	---	43.35	54.00	10.65	H	4.7
9316.000000	51.78	---	74.00	22.22	H	4.7
9928.000000	---	44.63	54.00	9.37	H	6.1
9928.000000	50.59	---	74.00	23.41	H	6.1

Middle Channel: 2440 MHz**Common Information**

Project No.:	RKS250929007
EUT Model:	9290042914
Test Mode:	Transmitting in BLE-2M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1℃
Humidity:	51%
Atmospheric Pressure:	103.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/21

Fundamental test with
Band Reject Filter

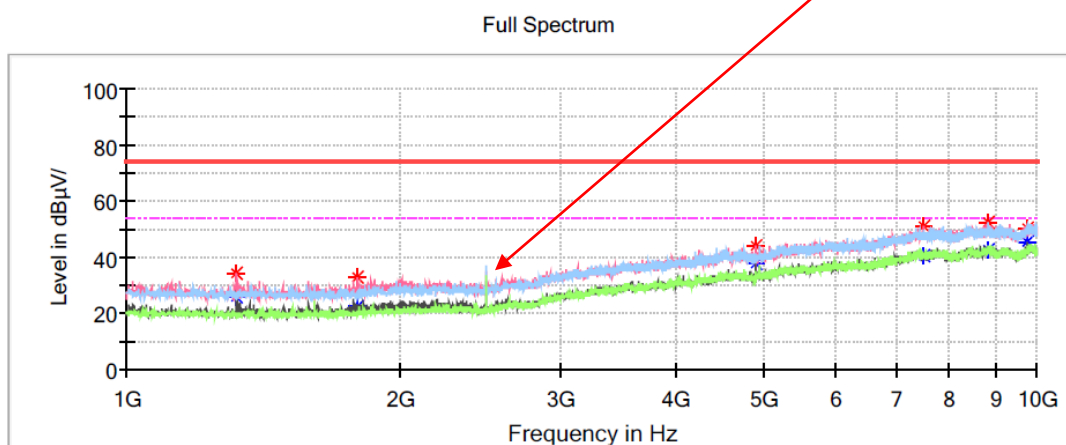
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1062.100000	33.51	---	74.00	40.49	V	-15.0
1062.100000	---	26.92	54.00	27.08	V	-15.0
1401.400000	---	26.30	54.00	27.70	H	-13.8
1401.400000	34.26	---	74.00	39.74	H	-13.8
1595.800000	35.57	---	74.00	38.43	V	-12.8
1595.800000	---	26.80	54.00	27.20	V	-12.8
5994.100000	---	39.24	54.00	14.76	V	-0.6
5994.100000	52.21	---	74.00	21.79	V	-0.6
7318.900000	50.78	---	74.00	23.22	H	2.4
7318.900000	---	44.36	54.00	9.64	H	2.4
9858.700000	---	44.25	54.00	9.75	V	5.9
9858.700000	52.17	---	74.00	21.83	V	5.9

High Channel: 2480 MHz**Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

Fundamental test with
Band Reject Filter

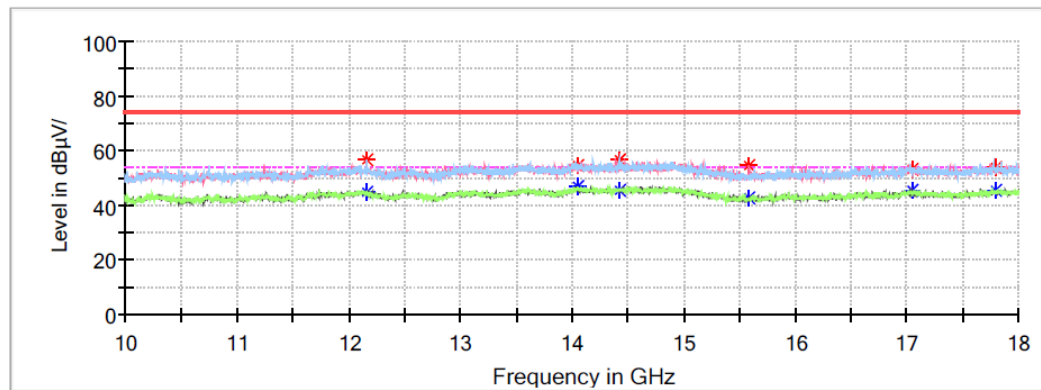
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1321.300000	---	26.21	54.00	27.79	V	-14.1
1321.300000	34.35	---	74.00	39.65	V	-14.1
1791.100000	---	22.24	54.00	31.76	V	-11.4
1791.100000	32.81	---	74.00	41.19	V	-11.4
4900.600000	---	37.96	54.00	16.04	V	-3.2
4900.600000	44.09	---	74.00	29.91	V	-3.2
7510.600000	---	40.28	54.00	13.72	V	3.0
7510.600000	50.99	---	74.00	23.01	V	3.0
8839.000000	52.26	---	74.00	21.74	H	4.7
8839.000000	---	42.60	54.00	11.40	H	4.7
9753.400000	50.47	---	74.00	23.53	H	5.6
9753.400000	---	45.22	54.00	8.78	H	5.6

10GHz-18GHz (BLE 2 Mbps):**Low Channel: 2402 MHz****Common Information**

Project No.: RKSB250929007
 EUT Model: 9290042914
 Test Mode: Transmitting in BLE-2M Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 103.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/21

Full Spectrum

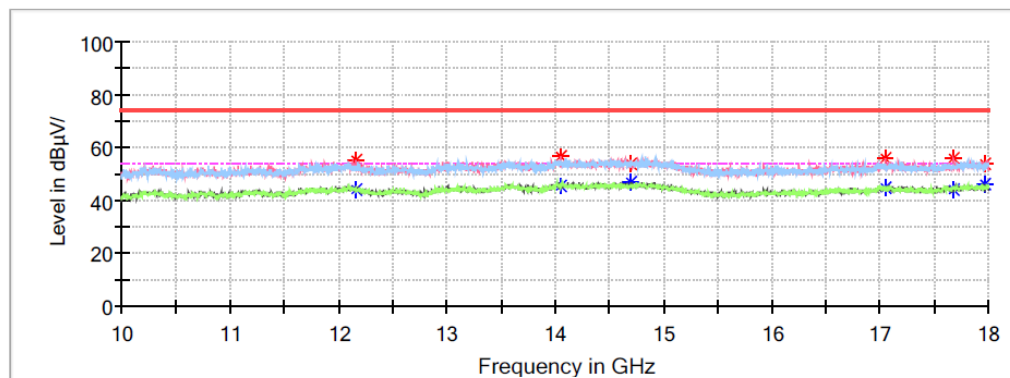
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12163.200000	---	44.84	54.00	9.16	V	9.0
12163.200000	56.33	---	74.00	17.67	V	9.0
14051.200000	54.64	---	74.00	19.36	H	11.2
14051.200000	---	47.18	54.00	6.82	H	11.2
14417.600000	56.58	---	74.00	17.42	H	11.8
14417.600000	---	45.59	54.00	8.41	H	11.8
15590.400000	---	42.98	54.00	11.02	V	8.8
15590.400000	54.32	---	74.00	19.68	V	8.8
17043.200000	---	45.75	54.00	8.25	V	10.9
17043.200000	53.46	---	74.00	20.54	V	10.9
17790.400000	53.67	---	74.00	20.33	H	11.2
17790.400000	---	45.74	54.00	8.26	H	11.2

Middle Channel: 2440 MHz**Common Information**

Project No.:	RKSB250929007
EUT Model:	9290042914
Test Mode:	Transmitting in BLE-2M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	51%
Atmospheric Pressure:	103.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/21

Full Spectrum

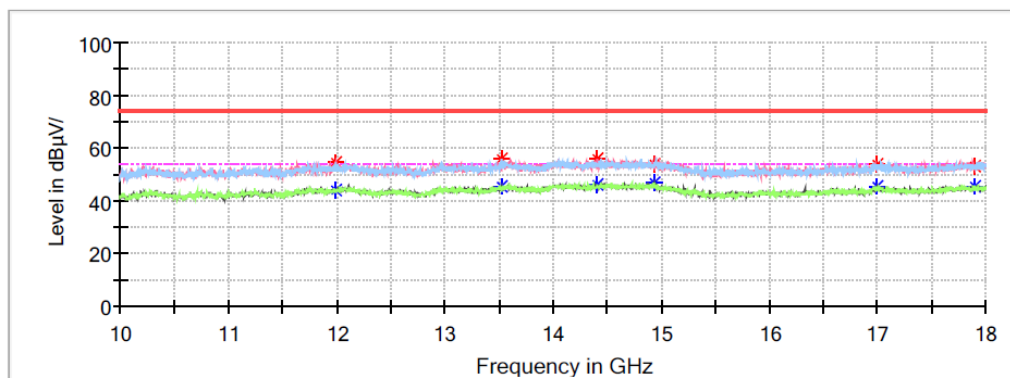
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12158.400000	---	44.33	54.00	9.67	V	9.0
12158.400000	55.08	---	74.00	18.92	V	9.0
14048.000000	---	45.15	54.00	8.85	V	11.2
14048.000000	56.77	---	74.00	17.23	V	11.2
14704.000000	---	46.97	54.00	7.03	V	11.3
14704.000000	54.07	---	74.00	19.93	V	11.3
17043.200000	---	44.70	54.00	9.30	H	10.9
17043.200000	55.89	---	74.00	18.11	H	10.9
17680.000000	---	44.36	54.00	9.64	V	10.9
17680.000000	55.96	---	74.00	18.04	V	10.9
17972.800000	53.68	---	74.00	20.32	H	11.7
17972.800000	---	46.14	54.00	7.86	H	11.7

High Channel: 2480 MHz**Common Information**

Project No.: RKSB250929007
 EUT Model: 9290042914
 Test Mode: Transmitting in BLE-2M High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1℃
 Humidity: 51%
 Atmospheric Pressure: 103.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/21

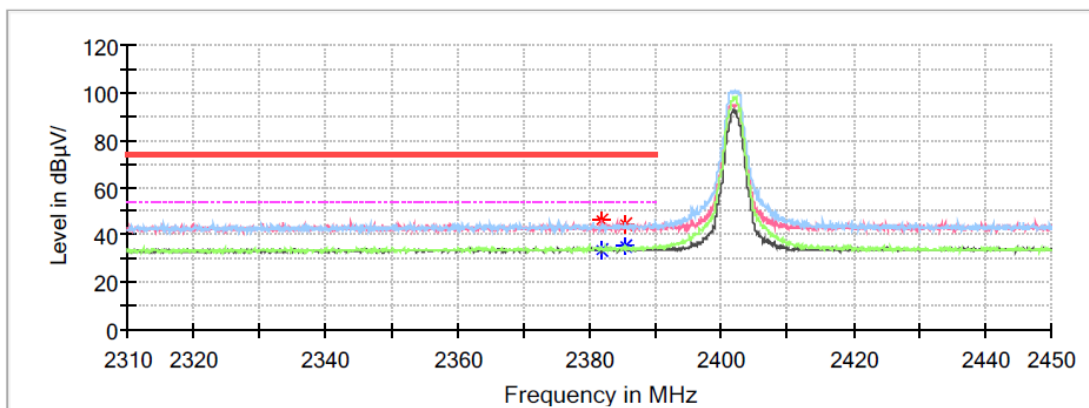
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11984.000000	54.51	---	74.00	19.49	V	9.0
11984.000000	---	44.25	54.00	9.75	V	9.0
13529.600000	---	45.20	54.00	8.80	V	10.0
13529.600000	55.64	---	74.00	18.36	V	10.0
14409.600000	56.15	---	74.00	17.85	V	11.8
14409.600000	---	46.22	54.00	7.78	V	11.8
14931.200000	53.89	---	74.00	20.11	H	10.5
14931.200000	---	47.09	54.00	6.91	H	10.5
17000.000000	53.53	---	74.00	20.47	H	11.0
17000.000000	---	45.44	54.00	8.56	H	11.0
17900.800000	---	45.66	54.00	8.34	V	11.5
17900.800000	53.25	---	74.00	20.75	V	11.5

Restricted Bands Emission:**Left Side****Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: Transmitting in BLE-2M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

Full Spectrum**Critical_Freqs**

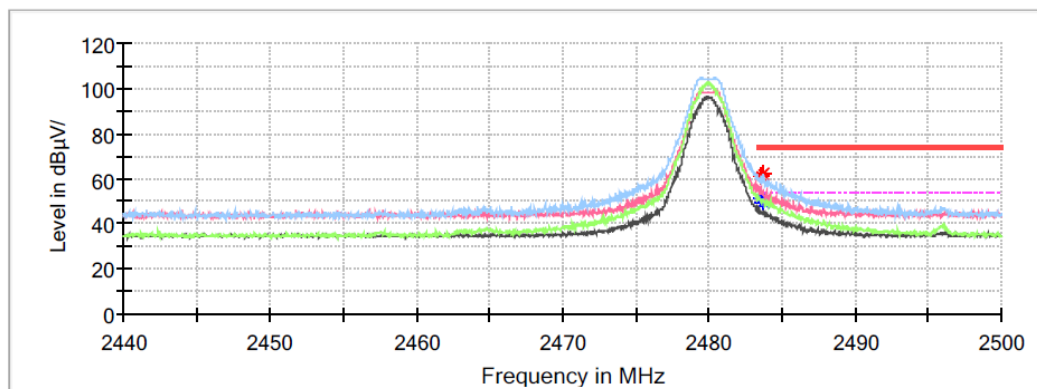
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2381.904000	45.79	---	74.00	28.21	V	0.2
2381.904000	---	33.84	54.00	20.16	V	0.2
2385.488000	44.42	---	74.00	29.58	H	0.2
2385.488000	---	35.36	54.00	18.64	H	0.2

Right Side

Common Information

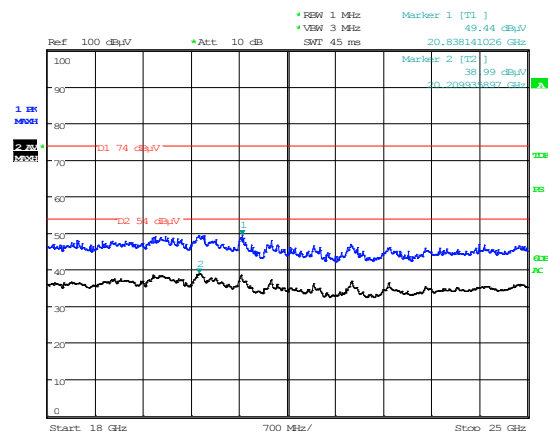
Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

Full Spectrum

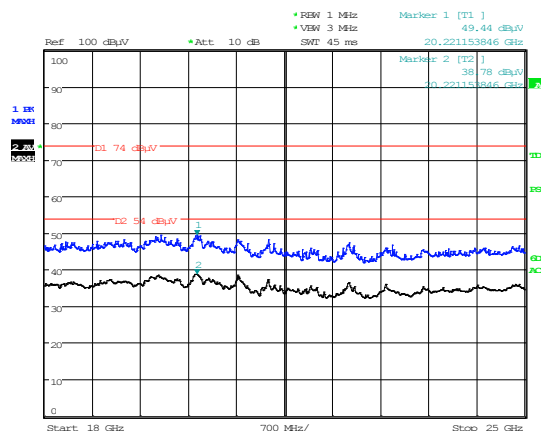


Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.560000	---	51.11	54.00	2.89	H	0.4
2483.560000	61.63	---	74.00	12.37	H	0.4
2483.752000	---	49.87	54.00	4.13	H	0.4
2483.752000	62.29	---	74.00	11.71	H	0.4

18 GHz - 25 GHz (Transmitting in maximum output power mode BLE (2 Mbps) low channel):**Horizontal**

Project No.: RKSB250929007 Tester: Hugh Wu
 Date: 30.OCT.2025 10:41:46

Vertical

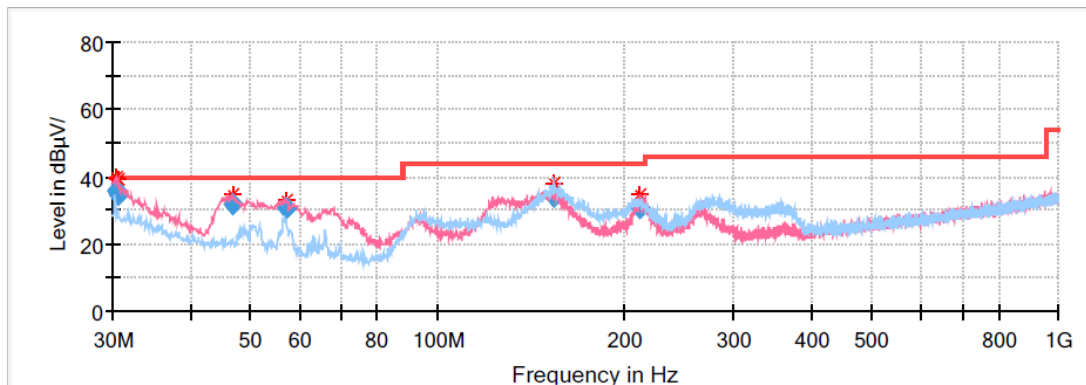
Project No.: RKSB250929007 Tester: Hugh Wu
 Date: 30.OCT.2025 11:15:48

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.21	---	38.99	54	15.01	H	12.47
20.84	49.44	---	74	24.56	H	13.04
20.22	---	38.78	54	15.22	V	12.48
20.22	49.44	---	74	24.56	V	12.48

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

Zigbee: (Transmitting in maximum output power mode Zigbee low channel)**30 MHz-1 GHz:****Low Channel: 2405 MHz****Common Information**

Project No: RKSB250929007
EUT Model: 9290042914
Test Mode: Zigbee
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 22.2°C
Humidity: 54%
Barometric Pressure: 103.1kPa
Test Engineer: Scarf Yang
Test Date: 2025/10/20

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	35.48	40.00	4.52	V	-4.9
30.606250	34.55	40.00	5.45	V	-5.1
46.853750	31.60	40.00	8.40	V	-15.1
57.038750	30.55	40.00	9.45	V	-17.1
154.645000	34.29	43.50	9.21	H	-11.9
211.632500	30.73	43.50	12.77	V	-12.9

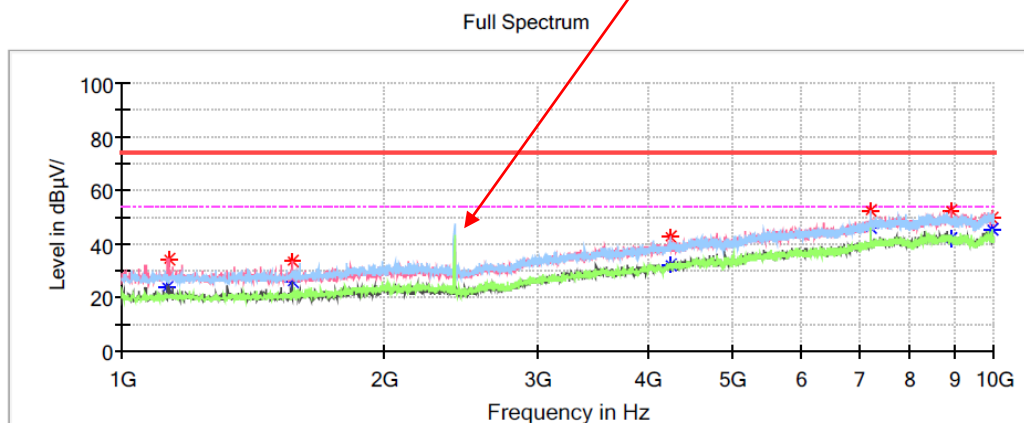
1GHz-10GHz:

Low Channel: 2405 MHz

Common Information

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: ZigBee
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

Fundamental test with
Band Reject Filter

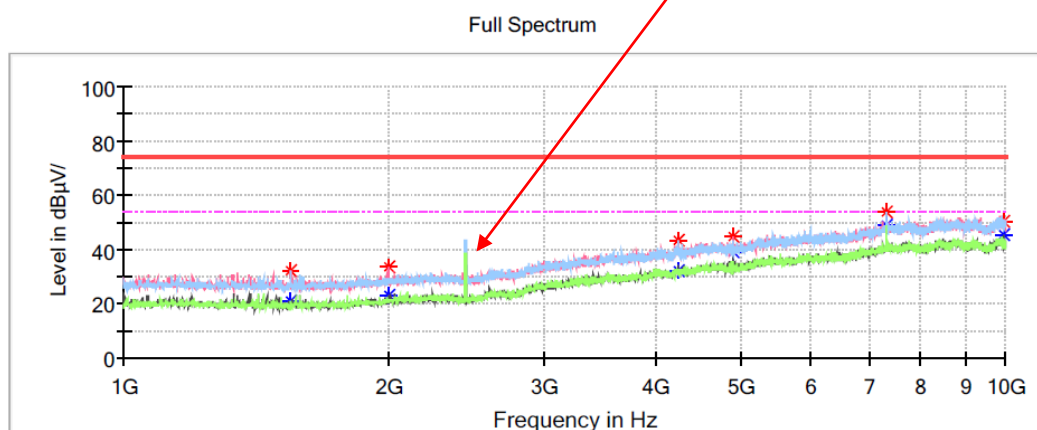
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1127.800000	---	23.50	54.00	30.50	V	-14.8
1128.700000	34.16	---	74.00	39.84	V	-14.8
1570.600000	---	25.75	54.00	28.25	V	-12.9
1570.600000	33.52	---	74.00	40.48	V	-12.9
4254.400000	---	32.45	54.00	21.55	V	-4.6
4254.400000	42.41	---	74.00	31.59	V	-4.6
7213.600000	52.35	---	74.00	21.65	H	2.1
7216.300000	---	45.84	54.00	8.16	H	2.1
8936.200000	---	41.78	54.00	12.22	V	4.7
8936.200000	52.12	---	74.00	21.88	V	4.7
9928.000000	---	45.65	54.00	8.35	H	6.1
9928.000000	49.68	---	74.00	24.32	H	6.1

Middle Channel: 2440 MHz**Common Information**

Project No.:	RKS250929007
EUT Model:	9290042914
Test Mode:	ZigBee
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	51%
Atmospheric Pressure:	103.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/21

Fundamental test with
Band Reject Filter

**Critical_Freqs**

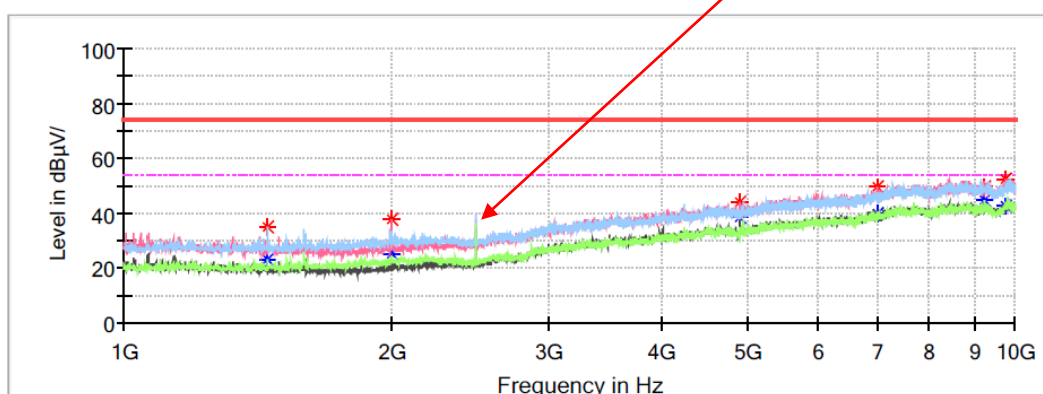
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1542.700000	---	20.69	54.00	33.31	H	-13.1
1542.700000	32.29	---	74.00	41.71	H	-13.1
1994.500000	---	23.42	54.00	30.58	V	-10.0
1994.500000	33.71	---	74.00	40.29	V	-10.0
4249.000000	---	32.31	54.00	21.69	H	-4.6
4249.000000	43.08	---	74.00	30.92	H	-4.6
4900.600000	---	38.87	54.00	15.13	V	-3.2
4900.600000	44.61	---	74.00	29.39	V	-3.2
7321.600000	---	48.94	54.00	5.06	H	2.4
7321.600000	53.64	---	74.00	20.36	H	2.4
9928.000000	50.10	---	74.00	23.90	V	6.1
9928.000000	---	45.52	54.00	8.48	V	6.1

High Channel: 2480 MHz**Common Information**

Project No.: RKS250929007
EUT Model: 9290042914
Test Mode: ZigBee
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40.3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

Fundamental test with
Band Reject Filter

Full Spectrum

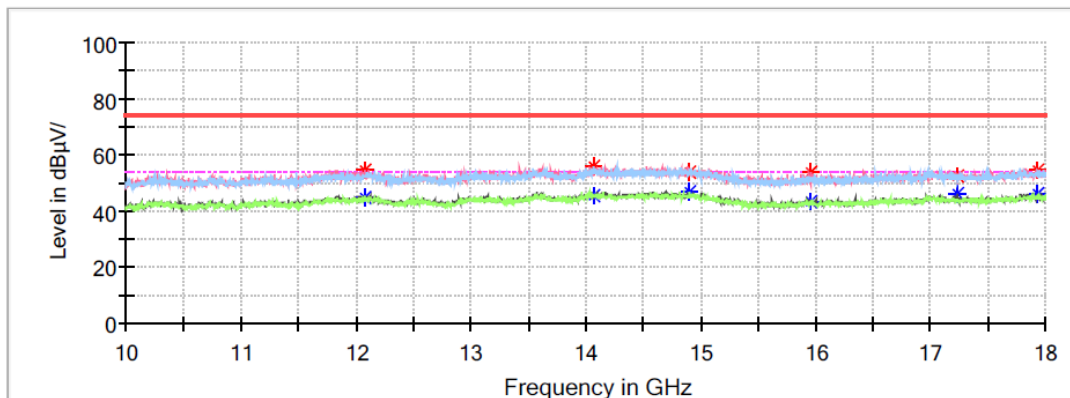
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1450.000000	34.87	---	74.00	39.13	H	-13.6
1450.000000	---	23.18	54.00	30.82	H	-13.6
1996.300000	37.50	---	74.00	36.50	V	-10.0
1996.300000	---	25.42	54.00	28.58	V	-10.0
4900.600000	43.91	---	74.00	30.09	V	-3.2
4900.600000	---	38.74	54.00	15.26	V	-3.2
6998.500000	---	39.90	54.00	14.10	H	1.5
6998.500000	49.71	---	74.00	24.29	H	1.5
9218.800000	49.93	---	74.00	24.07	H	4.7
9218.800000	---	44.84	54.00	9.16	H	4.7
9736.300000	52.45	---	74.00	21.55	V	5.5
9736.300000	---	42.71	54.00	11.29	V	5.5

10GHz-18GHz:**Low Channel: 2405 MHz****Common Information**

Project No.:	RKSB250929007
EUT Model:	9290042914
Test Mode:	ZigBee
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1℃
Humidity:	51%
Atmospheric Pressure:	103.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/21

Full Spectrum

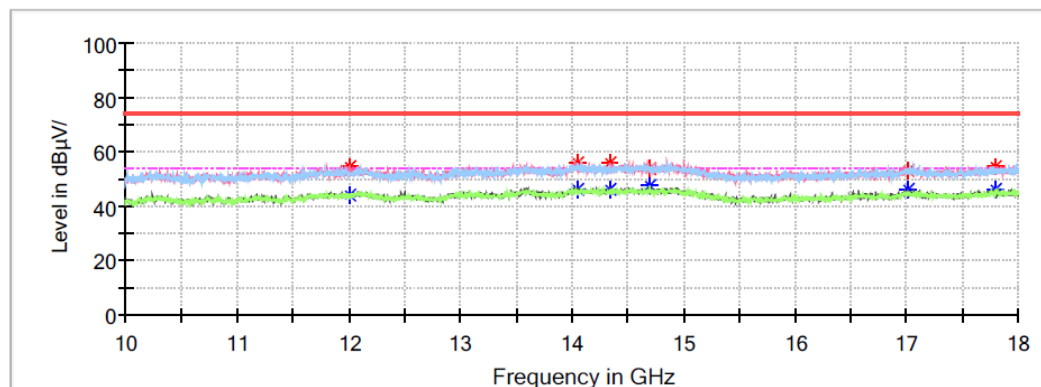
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12076.800000	---	44.78	54.00	9.22	V	9.0
12076.800000	54.59	---	74.00	19.41	V	9.0
14062.400000	---	45.75	54.00	8.25	H	11.2
14062.400000	55.74	---	74.00	18.26	H	11.2
14899.200000	---	46.93	54.00	7.07	H	10.6
14899.200000	53.64	---	74.00	20.36	H	10.6
15960.000000	---	43.25	54.00	10.75	V	8.8
15960.000000	53.75	---	74.00	20.25	V	8.8
17227.200000	52.29	---	74.00	21.71	H	10.7
17227.200000	---	45.83	54.00	8.17	H	10.7
17932.800000	---	46.07	54.00	7.93	V	11.6
17932.800000	54.51	---	74.00	19.49	V	11.6

Middle Channel: 2440 MHz**Common Information**

Project No.: RKS250929007
 EUT Model: 9290042914
 Test Mode: ZigBee
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 103.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/21

Full Spectrum

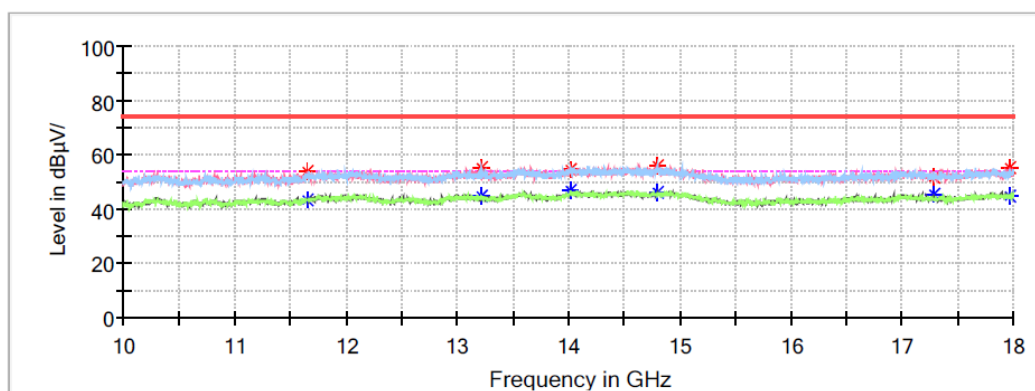
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12000.000000	---	43.84	54.00	10.16	V	9.1
12000.000000	54.56	---	74.00	19.44	V	9.1
14044.800000	56.05	---	74.00	17.95	V	11.2
14044.800000	---	45.96	54.00	8.04	V	11.2
14337.600000	---	45.98	54.00	8.02	H	11.7
14337.600000	55.98	---	74.00	18.02	H	11.7
14696.000000	53.55	---	74.00	20.45	V	11.3
14696.000000	---	47.21	54.00	6.79	V	11.3
17009.600000	53.29	---	74.00	20.71	V	10.9
17009.600000	---	45.97	54.00	8.03	V	10.9
17792.000000	54.86	---	74.00	19.14	H	11.2
17792.000000	---	46.33	54.00	7.67	H	11.2

High Channel: 2480 MHz**Common Information**

Project No.: RKSB250929007
 EUT Model: 9290042914
 Test Mode: ZigBee
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 103.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/21

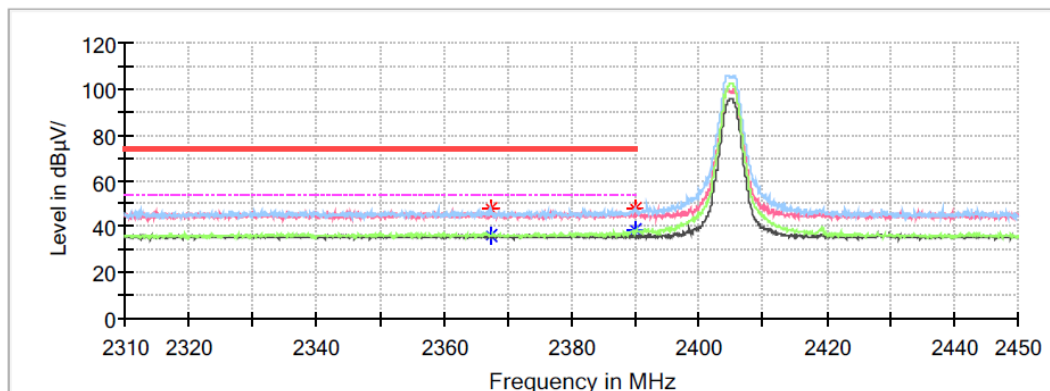
Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11657.600000	---	43.53	54.00	10.47	V	8.4
11657.600000	53.95	---	74.00	20.05	V	8.4
13224.000000	---	44.84	54.00	9.16	H	9.5
13224.000000	54.99	---	74.00	19.01	H	9.5
14016.000000	---	47.11	54.00	6.89	V	11.1
14016.000000	54.20	---	74.00	19.80	V	11.1
14792.000000	---	46.03	54.00	7.97	V	11.0
14792.000000	55.93	---	74.00	18.07	V	11.0
17286.400000	52.04	---	74.00	21.96	H	10.7
17286.400000	---	45.66	54.00	8.34	H	10.7
17961.600000	---	44.76	54.00	9.24	V	11.7
17961.600000	55.12	---	74.00	18.88	V	11.7

Restricted Bands Emission:**Left Side****Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: ZigBee
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

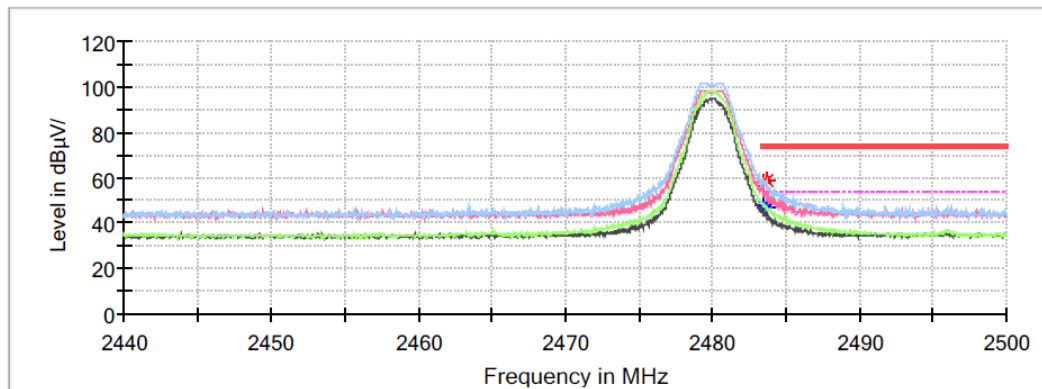
Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2367.456000	---	36.48	54.00	17.52	H	0.2
2367.456000	47.75	---	74.00	26.25	H	0.2
2389.912000	---	38.41	54.00	15.59	H	0.2
2389.912000	47.95	---	74.00	26.05	H	0.2

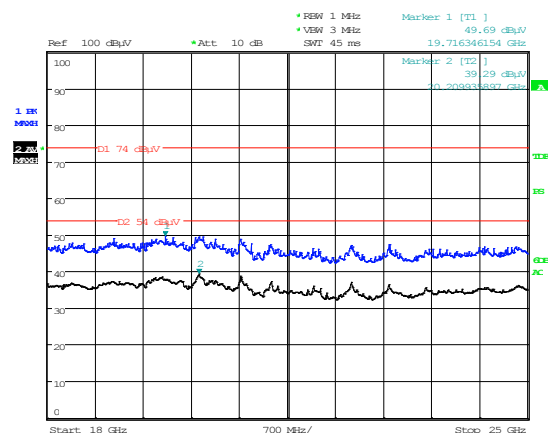
Right Side**Common Information**

Project No.: RKSB250929007
EUT Model: 9290042914
Test Mode: ZigBee
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 103.2kPa
Test Engineer: Destine Hu
Test Date: 2025/10/21

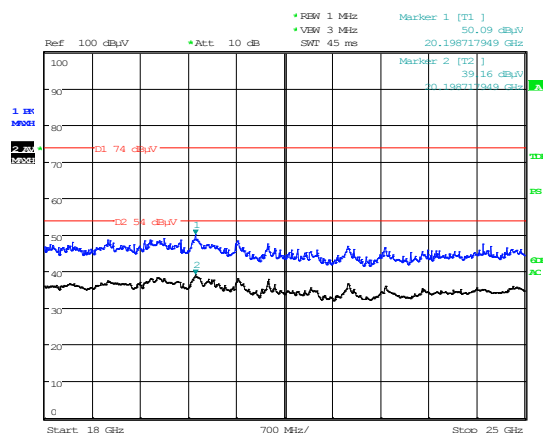
Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.512000	---	47.78	54.00	6.22	H	0.4
2483.512000	57.85	---	74.00	16.15	H	0.4
2483.656000	---	47.23	54.00	6.77	H	0.4
2483.656000	58.93	---	74.00	15.07	H	0.4

18 GHz - 25 GHz (Transmitting in maximum output power mode Zigbee low channel):**Horizontal**

Project No.: RKSB250929007 Tester: Hugh Wu
 Date: 30.OCT.2025 14:02:42

Vertical

Project No.: RKSB250929007 Tester: Hugh Wu
 Date: 30.OCT.2025 14:37:29

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.21	---	39.29	54	14.71	H	12.47
19.71	49.69	---	74	24.31	H	11.44
20.20	---	39.16	54	14.84	V	12.46
20.20	50.09	---	74	23.91	V	12.46

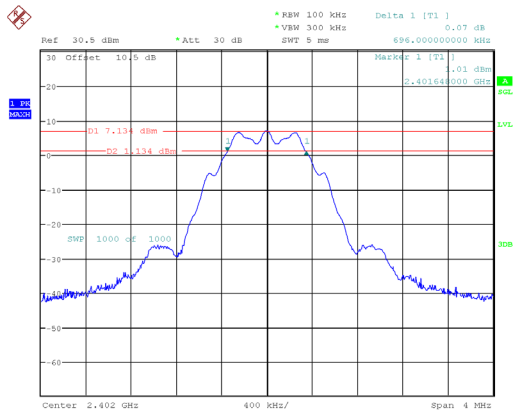
Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

6 dB EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-10-27
Temperature:	24.5 °C
Relative Humidity:	49 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

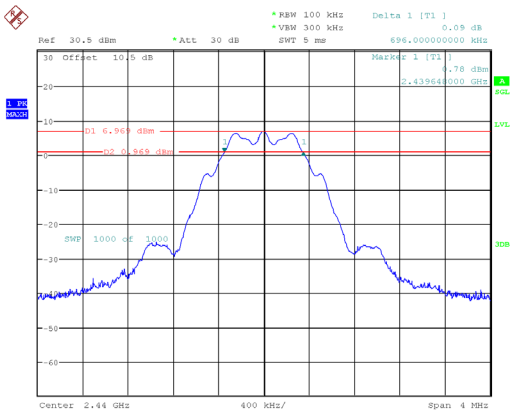
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (125 kbps)	Low	2402	0.696	≥0.5
	Middle	2440	0.696	≥0.5
	High	2480	0.692	≥0.5
BLE (500 kbps)	Low	2402	0.712	≥0.5
	Middle	2440	0.712	≥0.5
	High	2480	0.712	≥0.5
BLE (1 Mbps)	Low	2402	0.712	≥0.5
	Middle	2440	0.712	≥0.5
	High	2480	0.712	≥0.5
BLE (2 Mbps)	Low	2402	1.392	≥0.5
	Middle	2440	1.392	≥0.5
	High	2480	1.392	≥0.5
Zigbee	Low	2405	1.650	≥0.5
	Middle	2440	1.644	≥0.5
	High	2480	1.644	≥0.5

BLE (125 kbps): Low Channel



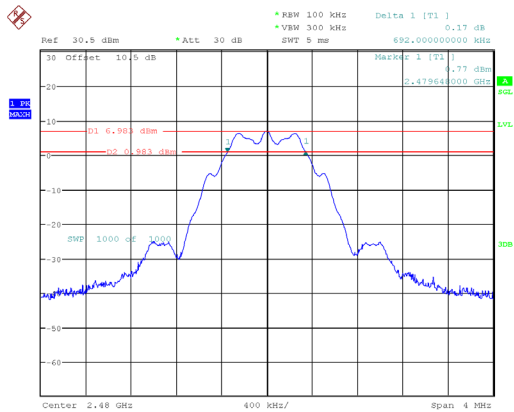
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:47:15

BLE (125 kbps): Middle Channel



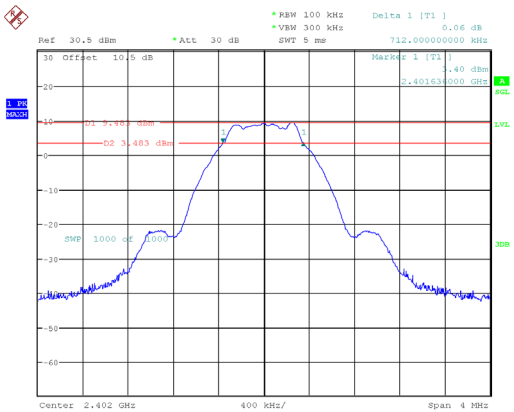
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:56:54

BLE (125 kbps): High Channel



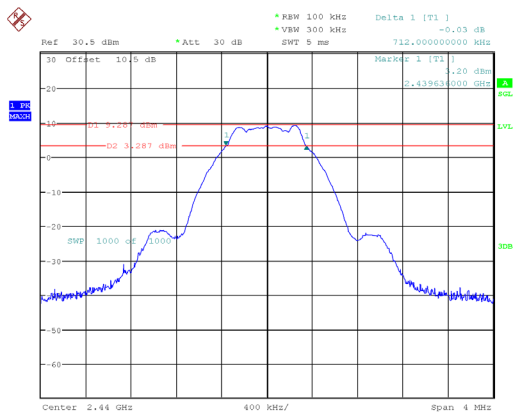
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 17:05:25

BLE (500 kbps): Low Channel



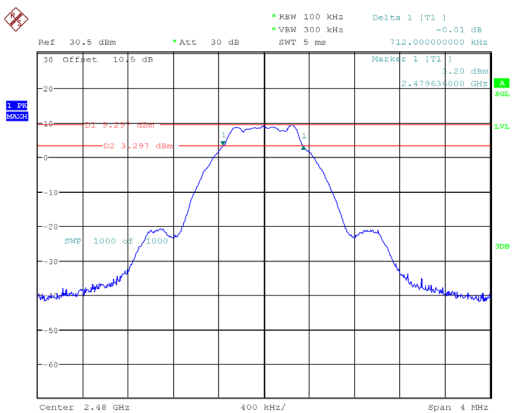
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:06:08

BLE (500 kbps): Middle Channel



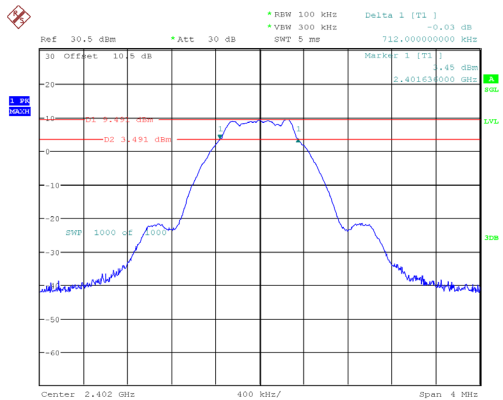
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:19:29

BLE (500 kbps): High Channel



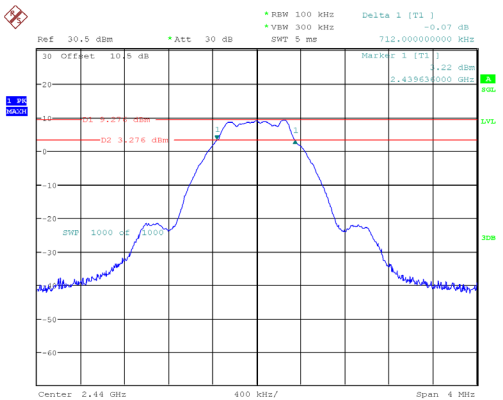
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:29:09

BLE (1 Mbps): Low Channel



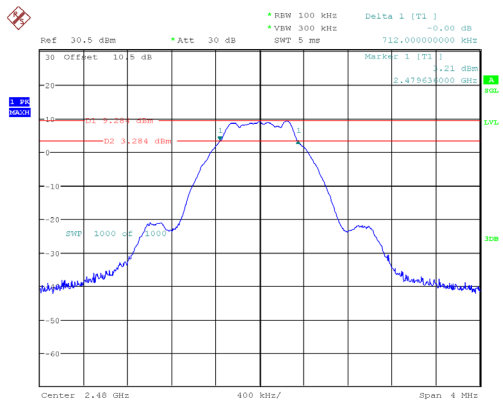
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:33:54

BLE (1 Mbps): Middle Channel



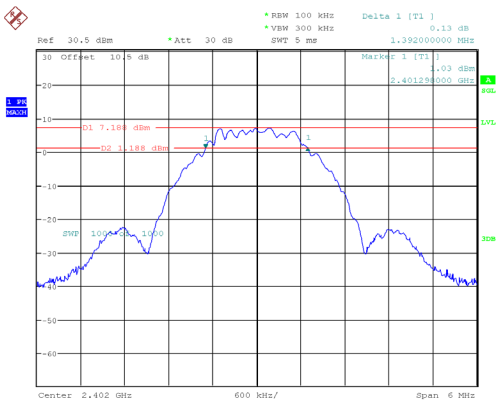
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:43:52

BLE (1 Mbps): High Channel



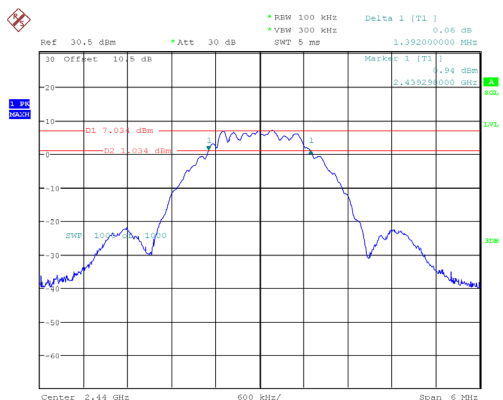
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:53:40

BLE (2 Mbps): Low Channel



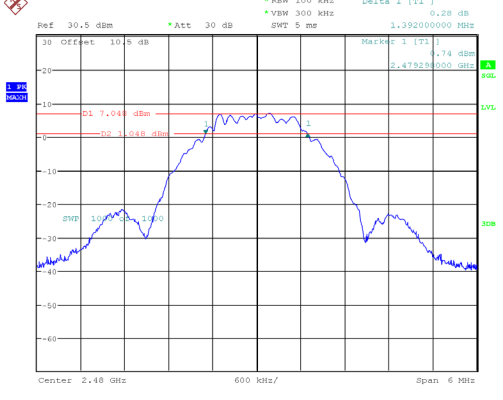
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:10:27

BLE (2 Mbps): Middle Channel



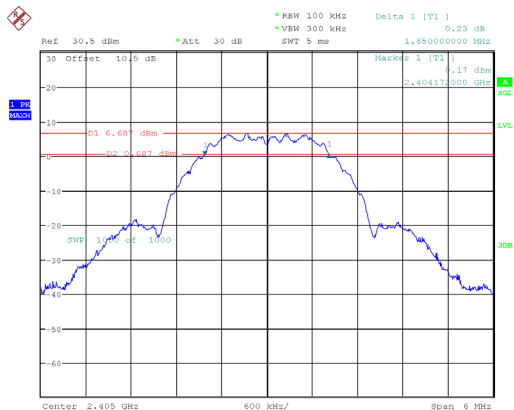
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:28:33

BLE (2 Mbps): High Channel



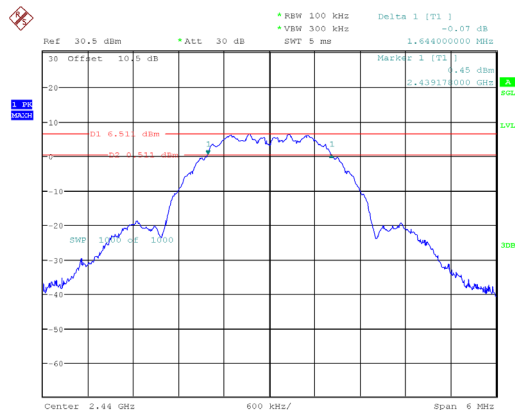
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:38:52

Zigbee: Low Channel



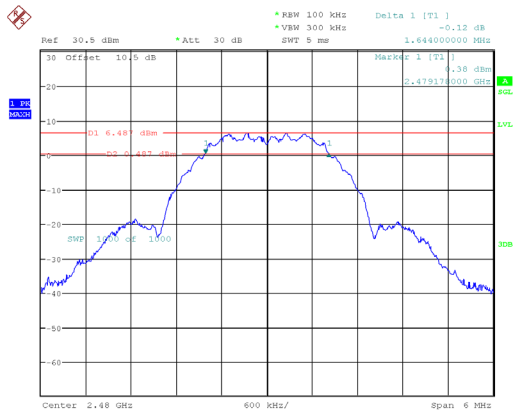
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:32:56

Zigbee: Middle Channel



ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:42:03

Zigbee: High Channel



ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:48:08

MAXIMUM CONDUCTED OUTPUT POWER**Environmental Conditions & Test Information**

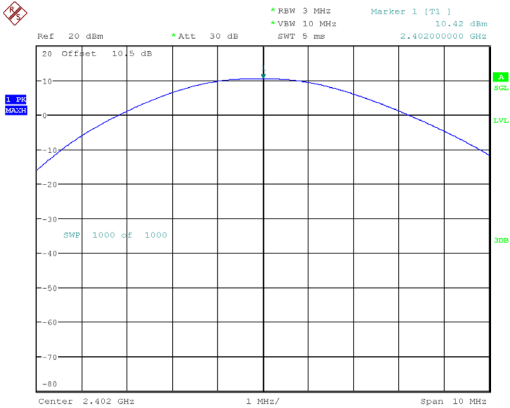
Test Date:	2025-10-27
Temperature:	24.5 °C
Relative Humidity:	49 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

EUT operation mode: Transmitting

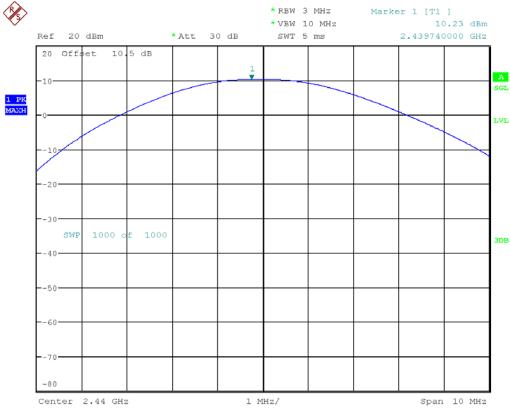
Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (125 kbps)	Low	2402	10.42	30	Pass
	Middle	2440	10.23	30	Pass
	High	2480	10.27	30	Pass
BLE (500 kbps)	Low	2402	10.44	30	Pass
	Middle	2440	10.25	30	Pass
	High	2480	10.27	30	Pass
BLE (1 Mbps)	Low	2402	10.44	30	Pass
	Middle	2440	10.24	30	Pass
	High	2480	10.26	30	Pass
BLE (2 Mbps)	Low	2402	10.44	30	Pass
	Middle	2440	10.27	30	Pass
	High	2480	10.29	30	Pass
Zigbee	Low	2405	10.39	30	Pass
	Middle	2440	10.20	30	Pass
	High	2480	10.25	30	Pass

BLE (125 kbps): Low Channel



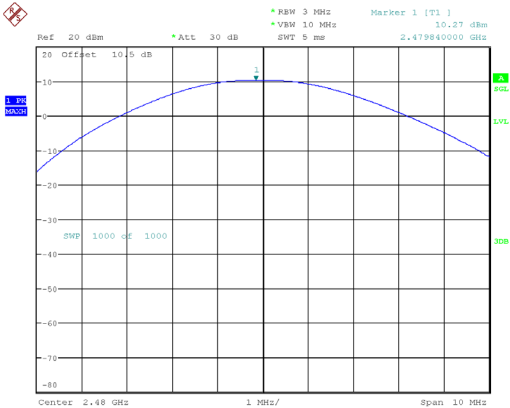
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:47:52

BLE (125 kbps): Middle Channel



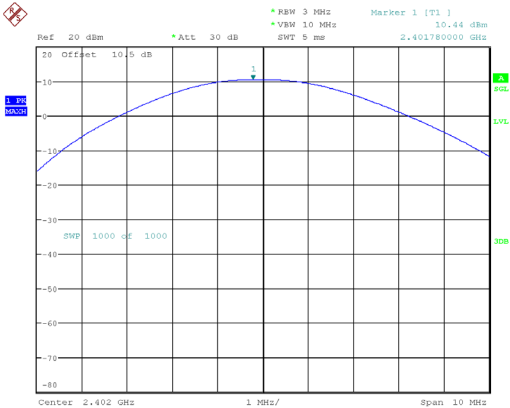
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:57:31

BLE (125 kbps): High Channel



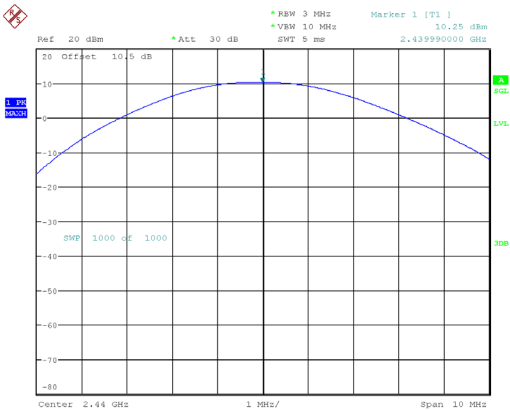
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 17:06:02

BLE (500 kbps): Low Channel



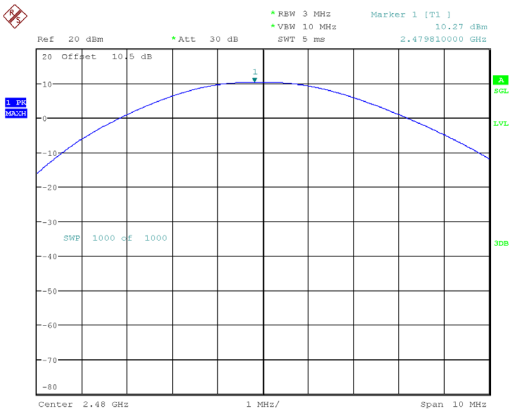
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:07:54

BLE (500 kbps): Middle Channel



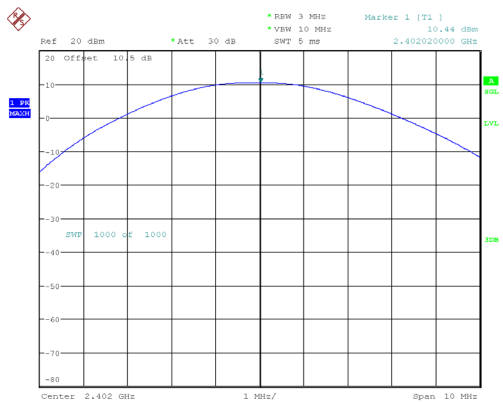
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:20:17

BLE (500 kbps): High Channel



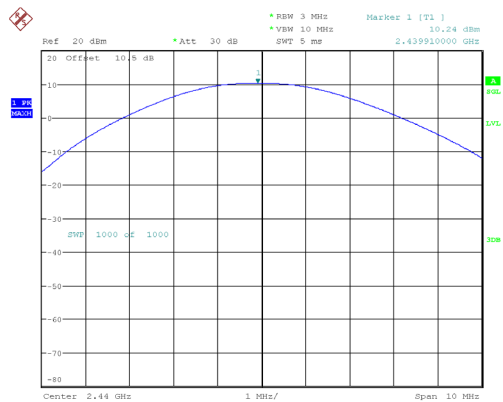
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:30:36

BLE (1 Mbps): Low Channel



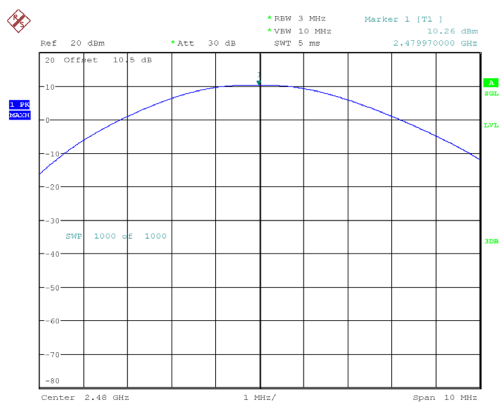
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:34:52

BLE (1 Mbps): Middle Channel



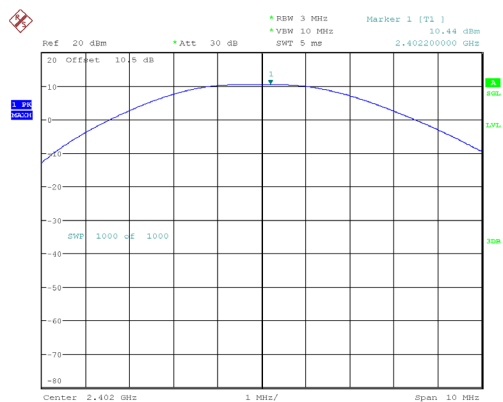
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:44:56

BLE (1 Mbps): High Channel



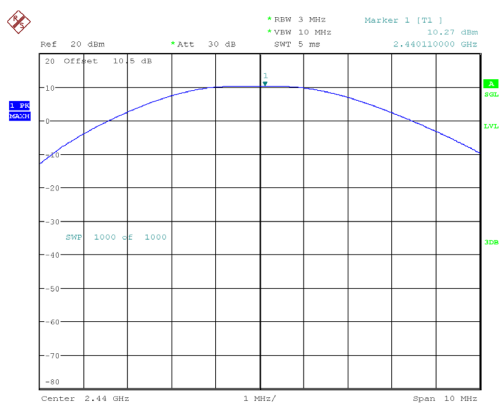
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:54:28

BLE (2 Mbps): Low Channel



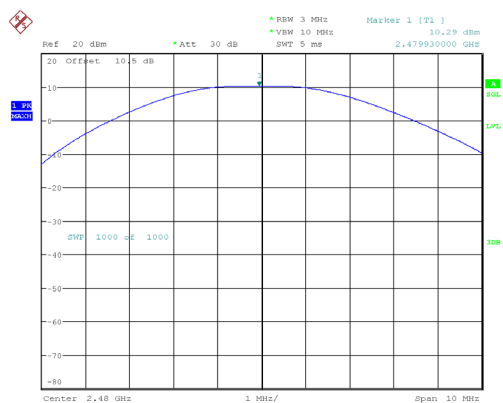
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:13:17

BLE (2 Mbps): Middle Channel



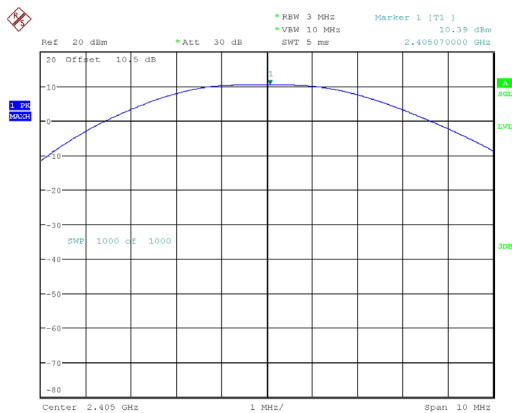
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:29:35

BLE (2 Mbps): High Channel



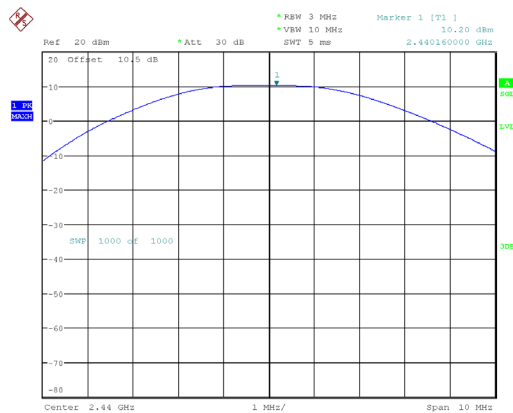
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:39:28

Zigbee: Low Channel



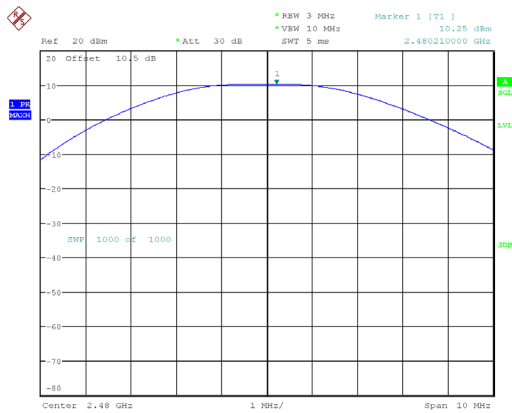
ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:33:51

Zigbee: Middle Channel



ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:42:41

Zigbee: High Channel



ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:48:58

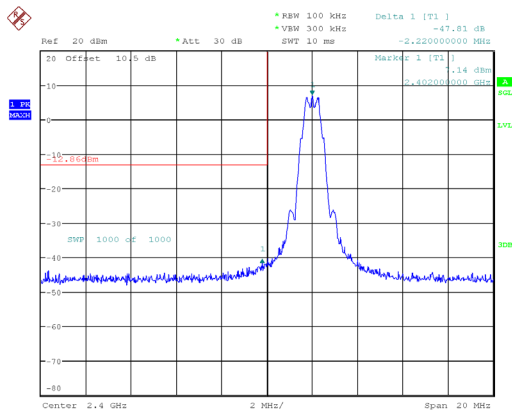
BAND EDGE**Environmental Conditions & Test Information**

Test Date:	2025-10-27
Temperature:	24.5 °C
Relative Humidity:	49 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

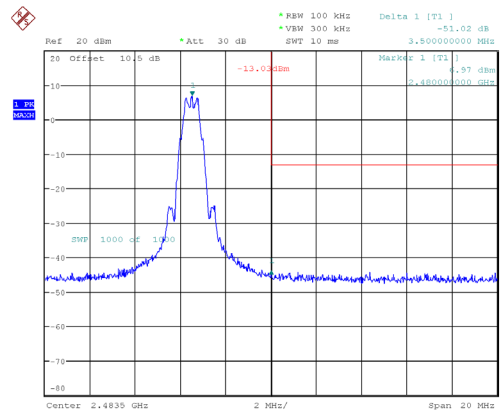
Test Result: Compliant.

EUT operation mode: Transmitting

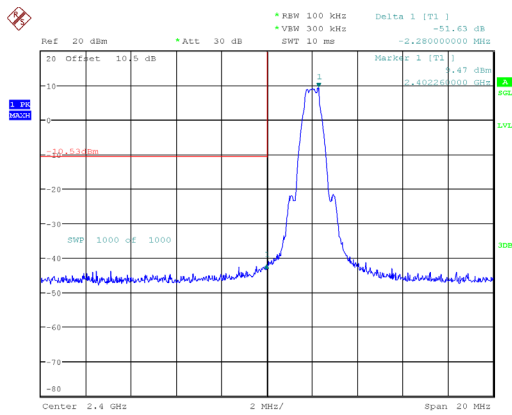
Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
BLE (125 kbps)	Low	2402	47.81	20
	High	2480	51.02	
BLE (500 kbps)	Low	2402	51.63	
	High	2480	52.42	
BLE (1 Mbps)	Low	2402	50.74	
	High	2480	53.03	
BLE (2 Mbps)	Low	2402	31.46	
	High	2480	47.52	
Zigbee	Low	2405	50.54	
	High	2480	47.74	

BLE (125 kbps):**Left Side**

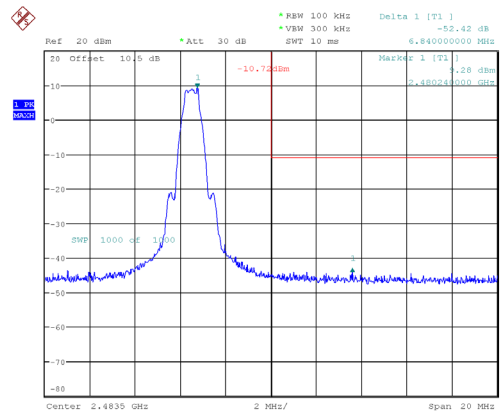
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:48:52

Right Side

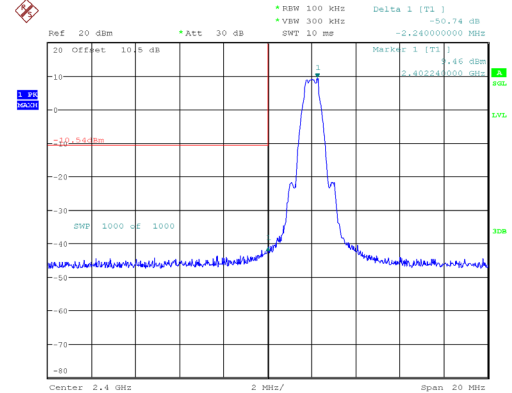
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 17:07:02

BLE (500 kbps):**Left Side**

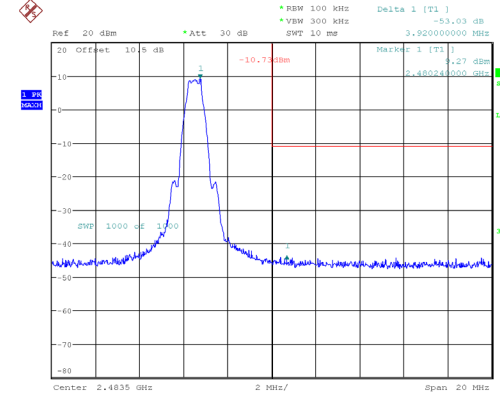
ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:08:53

Right Side

ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 16:31:35

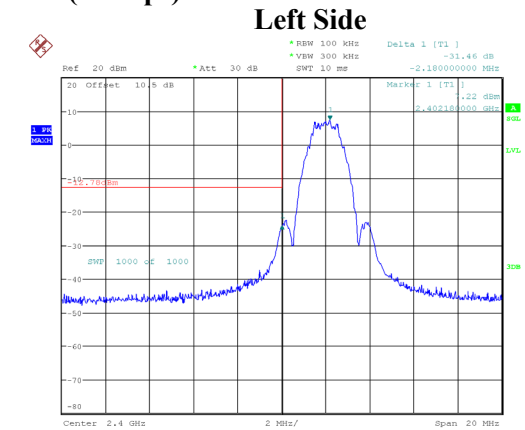
BLE (1 Mbps):**Left Side**

ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:35:50

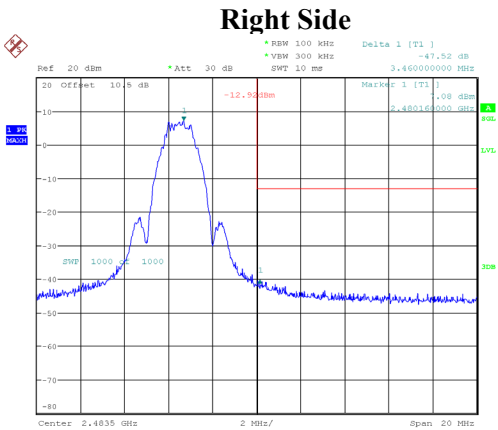
Right Side

ProjectNo.:RKS250929007 Tester:Neil Zhou
Date: 27.OCT.2025 14:55:28

BLE (2 Mbps):

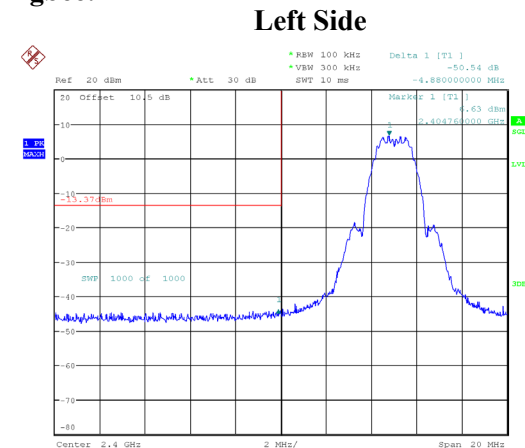


ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:14:16

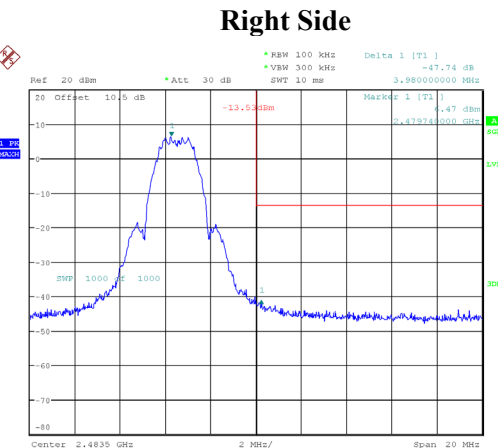


ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 15:40:28

Zigbee:



ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:34:50



ProjectNo.:RKSB250929007 Tester:Neil Zhou
Date: 27.OCT.2025 13:49:57

POWER SPECTRAL DENSITY**Environmental Conditions & Test Information**

Test Date:	2025-10-27
Temperature:	24.5 °C
Relative Humidity:	49 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE (125 kbps)	Low	2402	4.15	≤8
	Middle	2440	3.95	≤8
	High	2480	3.93	≤8
BLE (500 kbps)	Low	2402	-6.44	≤8
	Middle	2440	-6.63	≤8
	High	2480	-6.65	≤8
BLE (1 Mbps)	Low	2402	-6.44	≤8
	Middle	2440	-6.63	≤8
	High	2480	-6.64	≤8
BLE (2 Mbps)	Low	2402	-12.06	≤8
	Middle	2440	-12.22	≤8
	High	2480	-12.22	≤8
Zigbee	Low	2405	-4.86	≤8
	Middle	2440	-5.09	≤8
	High	2480	-5.04	≤8