

#### **TEST DESCRIPTION**

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2023-08-29	2024-08-29
Block - DC	Fairview Microwave	SD3379	AMW	2023-03-13	2024-03-13
Attenuator	S.M. Electronics	SA26B-20	AUY	2023-03-13	2024-03-13
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2022-12-02	2023-12-02
Generator - Signal	Keysight	N5182B	TFU	2022-12-02	2024-12-02



EUT:	BluKey Plus™ S (BK+S)	Work Order:	PAYR0024
Serial Number:	В	Date:	2023-10-09
Customer:	PayRange Inc.	Temperature:	22°C
Attendees:	Mike Mitchell	Relative Humidity:	48.1%
Customer Project:	None	Bar. Pressure (PMSL):	999 mbar
Tested By:	Jeff Alcoke and Chris Ladwig	Job Site:	EV06
Power:	12 VDC via 110VAC/60Hz	Configuration:	PAYR0024-1
Signature:	Jaff		

#### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013
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#### COMMENTS

Reference level offset includes: DC block, 20 dB attenuator, and measurement cable

### **DEVIATIONS FROM TEST STANDARD**

None

### **TEST RESULTS**

	Out Pwr	Limit	
	(dBm)	(dBm)	Result
BLE/GFSK 125 kbps			_
Low Channel, 2402 MHz	10.68	30	Pass
Mid Channel, 2442 MHz	10.836	30	Pass
High Channel, 2480 MHz	10.706	30	Pass
BLE/GFSK 500 kbps			
Low Channel, 2402 MHz	10.682	30	Pass
Mid Channel, 2442 MHz	10.858	30	Pass
High Channel, 2480 MHz	10.705	30	Pass
BLE/GFSK 1 Mbps			
Low Channel, 2402 MHz	10.666	30	Pass
Mid Channel, 2442 MHz	10.833	30	Pass
High Channel, 2480 MHz	10.709	30	Pass
BLE/GFSK 2 Mbps			_
Low Channel, 2402 MHz	10.698	30	Pass
Mid Channel, 2442 MHz	10.869	30	Pass
High Channel, 2480 MHz	10.727	30	Pass





BLE/GFSK 125 kbps Low Channel, 2402 MHz



BLE/GFSK 125 kbps Mid Channel, 2442 MHz



BLE/GFSK 125 kbps High Channel, 2480 MHz



BLE/GFSK 500 kbps Low Channel, 2402 MHz





BLE/GFSK 500 kbps Mid Channel, 2442 MHz



BLE/GFSK 500 kbps High Channel, 2480 MHz



BLE/GFSK 1 Mbps Low Channel, 2402 MHz



BLE/GFSK 1 Mbps Mid Channel, 2442 MHz





BLE/GFSK 1 Mbps High Channel, 2480 MHz



BLE/GFSK 2 Mbps Low Channel, 2402 MHz



BLE/GFSK 2 Mbps Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps High Channel, 2480 MHz

### EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



### **TEST DESCRIPTION**

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The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2023-08-29	2024-08-29
Block - DC	Fairview Microwave	SD3379	AMW	2023-03-13	2024-03-13
Attenuator	S.M. Electronics	SA26B-20	AUY	2023-03-13	2024-03-13
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2022-12-02	2023-12-02
Generator - Signal	Keysight	N5182B	TFU	2022-12-02	2024-12-02

### EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



EUT:	BluKey Plus™ S (BK+S)	Work Order:	PAYR0024
Serial Number:	В	Date:	2023-10-09
Customer:	PayRange Inc.	Temperature:	22°C
Attendees:	Mike Mitchell	Relative Humidity:	48.2%
Customer Project:	None	Bar. Pressure (PMSL):	999 mbar
Tested By:	Jeff Alcoke and Chris Ladwig	Job Site:	EV06
Power:	12 VDC via 110VAC/60Hz	Configuration:	PAYR0024-1
Signature:	Jaff		

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013

#### **COMMENTS**

None

### **DEVIATIONS FROM TEST STANDARD**

None

### **TEST RESULTS**

	Out Pwr	Antenna	EIRP	EIRP Limit	
	(dBm)	Gain (dBi)	(dBm)	(dBm)	Result
BLE/GFSK 125 kbps		_			
Low Channel, 2402 MHz	10.68	3.7	14.38	36	Pass
Mid Channel, 2442 MHz	10.836	3.7	14.536	36	Pass
High Channel, 2480 MHz	10.706	3.7	14.406	36	Pass
BLE/GFSK 500 kbps					
Low Channel, 2402 MHz	10.682	3.7	14.382	36	Pass
Mid Channel, 2442 MHz	10.858	3.7	14.558	36	Pass
High Channel, 2480 MHz	10.705	3.7	14.405	36	Pass
BLE/GFSK 1 Mbps					
Low Channel, 2402 MHz	10.666	3.7	14.366	36	Pass
Mid Channel, 2442 MHz	10.833	3.7	14.533	36	Pass
High Channel, 2480 MHz	10.709	3.7	14.409	36	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	10.698	3.7	14.398	36	Pass
Mid Channel, 2442 MHz	10.869	3.7	14.569	36	Pass
High Channel, 2480 MHz	10.727	3.7	14.427	36	Pass



### **TEST DESCRIPTION**

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2023-08-29	2024-08-29
Block - DC	Fairview Microwave	SD3379	AMW	2023-03-13	2024-03-13
Attenuator	S.M. Electronics	SA26B-20	AUY	2023-03-13	2024-03-13
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2022-12-02	2023-12-02
Generator - Signal	Keysight	N5182B	TFU	2022-12-02	2024-12-02



EUT:	BluKey Plus™ S (BK+S)	Work Order:	PAYR0024
Serial Number:	В	Date:	2023-10-09
Customer:	PayRange Inc.	Temperature:	23.1°C
Attendees:	Mike Mitchell	Relative Humidity:	46.5%
Customer Project:	None	Bar. Pressure (PMSL):	999 mbar
Tested By:	Jeff Alcoke and Chris Ladwig	Job Site:	EV06
Power:	12 VDC via 110VAC/60Hz	Configuration:	PAYR0024-1
Signature:	JA-M		

#### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013

#### COMMENTS

Reference level offset includes: DC block, 20 dB attenuator, and measurement cable

### **DEVIATIONS FROM TEST STANDARD**

None

### **TEST RESULTS**

	Value	Limit	
	dBm/3kHz	≤ (dBm/3kHz)	Results
BLE/GFSK 125 kbps			
Low Channel, 2402 MHz	4.539	8	Pass
Mid Channel, 2442 MHz	4.708	8	Pass
High Channel, 2480 MHz	4.574	8	Pass
BLE/GFSK 500 kbps			
Low Channel, 2402 MHz	4.502	8	Pass
Mid Channel, 2442 MHz	4.679	8	Pass
High Channel, 2480 MHz	4.494	8	Pass
BLE/GFSK 1 Mbps			
Low Channel, 2402 MHz	-5.074	8	Pass
Mid Channel, 2442 MHz	-4.826	8	Pass
High Channel, 2480 MHz	-5.008	8	Pass
BLE/GFSK 2 Mbps			
Low Channel, 2402 MHz	-7.149	8	Pass
Mid Channel, 2442 MHz	-6.969	8	Pass
High Channel, 2480 MHz	-7.074	8	Pass





BLE/GFSK 125 kbps Low Channel, 2402 MHz



BLE/GFSK 125 kbps Mid Channel, 2442 MHz



BLE/GFSK 125 kbps High Channel, 2480 MHz



BLE/GFSK 500 kbps Low Channel, 2402 MHz





BLE/GFSK 500 kbps Mid Channel, 2442 MHz



BLE/GFSK 500 kbps High Channel, 2480 MHz



BLE/GFSK 1 Mbps Low Channel, 2402 MHz



BLE/GFSK 1 Mbps Mid Channel, 2442 MHz





BLE/GFSK 1 Mbps High Channel, 2480 MHz



BLE/GFSK 2 Mbps Low Channel, 2402 MHz



BLE/GFSK 2 Mbps Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps High Channel, 2480 MHz



### **TEST DESCRIPTION**

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The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. The analyzer screen captures for this test show an example of the emission mask for the test mode also used during the radiated spurious emissions at the restricted band edges test.

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2023-08-29	2024-08-29
Block - DC	Fairview Microwave	SD3379	AMW	2023-03-13	2024-03-13
Attenuator	S.M. Electronics	SA26B-20	AUY	2023-03-13	2024-03-13
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2022-12-02	2023-12-02
Generator - Signal	Keysight	N5182B	TFU	2022-12-02	2024-12-02



EUT:	BluKey Plus™ S (BK+S)	Work Order:	PAYR0024
Serial Number:	В	Date:	2023-10-09
Customer:	PayRange Inc.	Temperature:	22.5°C
Attendees:	Mike Mitchell	Relative Humidity:	47.6%
Customer Project:	None	Bar. Pressure (PMSL):	999 mbar
Tested By:	Jeff Alcoke and Chris Ladwig	Job Site:	EV06
Power:	12 VDC via 110VAC/60Hz	Configuration:	PAYR0024-1
Signature:	Jat		

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013

### COMMENTS

Reference level offset includes: DC block, 20 dB attenuator, and measurement cable

#### **DEVIATIONS FROM TEST STANDARD**

None

### **TEST RESULTS**

	Value	Limit	
	(dBc)	≤ (dBc)	Result
BLE/GFSK 125 kbps			
Low Channel, 2402 MHz	-50.25	-20	Pass
High Channel, 2480 MHz	-55.47	-20	Pass
BLE/GFSK 500 kbps			
Low Channel, 2402 MHz	-52.12	-20	Pass
High Channel, 2480 MHz	-57.77	-20	Pass
BLE/GFSK 1 Mbps			
Low Channel, 2402 MHz	-51.54	-20	Pass
High Channel, 2480 MHz	-55.29	-20	Pass
BLE/GFSK 2 Mbps			
Low Channel, 2402 MHz	-31.83	-20	Pass
High Channel, 2480 MHz	-54.13	-20	Pass





BLE/GFSK 125 kbps Low Channel, 2402 MHz



BLE/GFSK 125 kbps High Channel, 2480 MHz



BLE/GFSK 500 kbps Low Channel, 2402 MHz



BLE/GFSK 500 kbps High Channel, 2480 MHz





BLE/GFSK 1 Mbps Low Channel, 2402 MHz



BLE/GFSK 1 Mbps High Channel, 2480 MHz



BLE/GFSK 2 Mbps Low Channel, 2402 MHz



BLE/GFSK 2 Mbps High Channel, 2480 MHz



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The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the fundamental was measured with a 100 kHz resolution bandwidth and the highest value was recorded. The rest of the spectrum was then measured with a 100 kHz resolution bandwidth and the highest value was found. The difference between the value found on the fundamental and the rest of the spectrum was compared against the limit to determine compliance.

The reference level offset for the fundamental screen capture was based on a measured value of the loss between the spectrum analyzer and the EUT which was verified at the time of test. The remaining screen capture(s) use an internal transducer factor on the analyzer to correct the displayed trace based on the cable loss over frequency. The reference level offset for the additional screen capture(s) is then based on the expected attenuator value and any other losses.

Fundamental Offset = Ref Lvl Offset showing measured composite factor of all losses

Remaining Screen capture(s) Offset = "Internal" cable loss factor not shown on screen capture + Ref LvI Offset showing expected attenuator value and any other losses

### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2023-08-29	2024-08-29
Block - DC	Fairview Microwave	SD3379	AMW	2023-03-13	2024-03-13
Attenuator	S.M. Electronics	SA26B-20	AUY	2023-03-13	2024-03-13
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2022-12-02	2023-12-02
Generator - Signal	Keysight	N5182B	TFU	2022-12-02	2024-12-02



			-
EUT:	BluKey Plus™ S (BK+S)	Work Order:	PAYR0024
Serial Number:	В	Date:	2023-10-09
Customer:	PayRange Inc.	Temperature:	22.2°C
Attendees:	Mike Mitchell	Relative Humidity:	47.5%
Customer Project:	None	Bar. Pressure (PMSL):	999 mbar
Tested By:	Jeff Alcoke and Chris Ladwig	Job Site:	EV06
Power:	12 VDC via 110VAC/60Hz	Configuration:	PAYR0024-1
Signature:	Jaffle		

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 3:2023	ANSI C63.10:2013

### COMMENTS

Reference level offset includes: DC block, 20 dB attenuator, and measurement cable

#### **DEVIATIONS FROM TEST STANDARD**

None

### **TEST RESULTS**

	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
BLE/GFSK 125 kbps				T	T.
Low Channel, 2402 MHz	Fundamental	2401.99	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2362.32	-60.36	-20	Pass
	12.5 GHz - 25 GHz	19217.74	-57.29	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442	N/A	N/A	N/A
	30 MHz - 12.5 GHz	3734.01	-63.87	-20	Pass
	12.5 GHz - 25 GHz	19533.63	-57.09	-20	Pass
High Channel, 2480 MHz	Fundamental	2479.98	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2519.13	-58.95	-20	Pass
	12.5 GHz - 25 GHz	19841.9	-59.21	-20	Pass
BLE/GFSK 500 kbps					
Low Channel, 2402 MHz	Fundamental	2401.76	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2397.34	-59.32	-20	Pass
	12.5 GHz - 25 GHz	19217.74	-54.88	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2441.77	N/A	N/A	N/A
	30 MHz - 12.5 GHz	3861.89	-63.39	-20	Pass
	12.5 GHz - 25 GHz	19538.21	-55.07	-20	Pass
High Channel, 2480 MHz	Fundamental	2479.76	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2519.13	-56.76	-20	Pass
	12.5 GHz - 25 GHz	19841.9	-57.72	-20	Pass
BLE/GFSK 1 Mbps					
Low Channel, 2402 MHz	Fundamental	2402.25	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2362.32	-59.16	-20	Pass
	12.5 GHz - 25 GHz	19214.69	-55.49	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442.25	N/A	N/A	N/A
	30 MHz - 12.5 GHz	3702.04	-64.43	-20	Pass



	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
	12.5 GHz - 25 GHz	19533.63	-56.11	-20	Pass
High Channel, 2480 MHz	Fundamental	2480.25	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2499.34	-56.92	-20	Pass
	12.5 GHz - 25 GHz	19837.32	-55.47	-20	Pass
BLE/GFSK 2 Mbps				-	
Low Channel, 2402 MHz	Fundamental	2402.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2397.34	-58.34	-20	Pass
	12.5 GHz - 25 GHz	19216.21	-53.84	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2442.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	3839.05	-63.75	-20	Pass
	12.5 GHz - 25 GHz	19532.11	-56.49	-20	Pass
High Channel, 2480 MHz	Fundamental	2480.01	N/A	N/A	N/A
	30 MHz - 12.5 GHz	2519.13	-59.42	-20	Pass
	12.5 GHz - 25 GHz	19835.8	-55.92	-20	Pass





BLE/GFSK 125 kbps Low Channel, 2402 MHz



BLE/GFSK 125 kbps Low Channel, 2402 MHz

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BLE/GFSK 125 kbps Low Channel, 2402 MHz



BLE/GFSK 125 kbps Mid Channel, 2442 MHz





BLE/GFSK 125 kbps Mid Channel, 2442 MHz



BLE/GFSK 125 kbps Mid Channel, 2442 MHz

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LXI RL	RF 50 Q DC	ALL	SENSE: INT	ALIGN OFF		02:14:17	PM Oct 09, 2023
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BLE/GFSK 125 kbps High Channel, 2480 MHz



BLE/GFSK 125 kbps High Channel, 2480 MHz





BLE/GFSK 125 kbps High Channel, 2480 MHz



BLE/GFSK 500 kbps Low Channel, 2402 MHz

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LXI R	L	RF	50 Q I	CORI	IEC	SE	EVSE: INT	<u>A</u> A	LIGN OFF		02:51:04	PM Oct 09, 2023
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BLE/GFSK 500 kbps Low Channel, 2402 MHz



BLE/GFSK 500 kbps Low Channel, 2402 MHz





BLE/GFSK 500 kbps Mid Channel, 2442 MHz



BLE/GFSK 500 kbps Mid Channel, 2442 MHz

Agilent Spectrum Analyzer - Element Materials Technology										
LXI R.I	L RF	50 Q DC	CORREC		SENSE: INT	<u>A</u> A	LIGN OFF		03:00:36	PM Oct 09, 2023
				PNO: Fast 🖵 FGain:Low	Trig: Free #Atten: 10	Run dB	#Avg Type:	Voltage	нт	ACE 123456 TYPE MUMAAAAAA DET PPPPPP
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-51.4	فقطعه والمسلط	بالمرد والترجيع والمترج	in the state	الحاد والمحاد ومعارك		rentedante distitu			اسيبغاب بالمرج	ainti ing a
-61.4	Atlen and the									
-71.4										
Star #Re	t 12.500 G s BW 100	Hz kHz		#VB	W 300 kHz			Swe	Stop 2 ep 1.195 s	25.000 GHz (8192 pts)
MSG							STATUS			and a spectrum

BLE/GFSK 500 kbps Mid Channel, 2442 MHz



BLE/GFSK 500 kbps High Channel, 2480 MHz





BLE/GFSK 500 kbps High Channel, 2480 MHz



BLE/GFSK 500 kbps High Channel, 2480 MHz

Agilent Spectrum Analyzer - Element Materials Technology										
KAL RE 50 Q DC		SI	ENSE: INT	ALIGN OFF		03:15:40PM Oct 09, 2023				
	_	PNO: Wide 🖵 IFGain:Low	Trig: Free Run #Atten: 10 dB	#Avg Type: Vo	ltage	TRACE 12345 TYPE MUSEUM DET P P P P P				
10 dB/div	Ref Offset 21.38 dB Ref 20.00 dBm				Mkr1 2	2.402 246 55 GH: 10.77 dBn				
10.0					<b>♦</b> <sup>1</sup>					
0.0										
10.0										
-10.0										
.90.0										
-40.0										
-50.0										
-60.0										
-70.0										
Center 2. #Res BW	4020000 GHz 100 kHz	#VBV	V 300 kHz		Span 1.000 MHz Sweep 1.092 ms (8192 pts)					
MSG				STATUS						

BLE/GFSK 1 Mbps Low Channel, 2402 MHz



BLE/GFSK 1 Mbps Low Channel, 2402 MHz



-45.16 dB

Stop 25.000 GHz eep 1.195 s (8192 pts)

Sv



BLE/GFSK 1 Mbps Low Channel, 2402 MHz



BLE/GFSK 1 Mbps Mid Channel, 2442 MHz



BLE/GFSK 1 Mbps Mid Channel, 2442 MHz

BLE/GFSK 1 Mbps Mid Channel, 2442 MHz





BLE/GFSK 1 Mbps High Channel, 2480 MHz



BLE/GFSK 1 Mbps High Channel, 2480 MHz

Agilent Spe	ctrum Analy	zer - Element	Materials Tec	hnology								
CX RL	RF	50 Q DC	CORREC	51 151 151 151 151 151 151 151 151 151	5	ENSE: INT	1	LAL.	IGN OFF		03:32:35	5PM Oct 09, 2023
						Trig: Erool	Dun		#Avg Type:	voltage	TF	TYPE MUAAAAAAAA
10000				PNO: Fast	9	#åtten: 10	dB					DETPPPPP
				ir Gain:LOW	-			22.02				
	Ref Of	fset 20 dB								r	VIKET 19.8	37 3 GHz
10 dB/div	Ref 1	8.65 dBn									-44	1.64 dBm
Log												
8.65												
4.05												
-1.30												
-11.4												
-21.4												
-21.4												
-31.4												
-41.4								<u>1</u>				
								<b>V</b> .				
-61.4						1. 1.80	of ratio large		Maria and Area	A REAL PROPERTY.	Sector Description	of the second second
R-40.	and below	a loss a ball ( and	and a draw b	all starts	nebile A	International Action	Los Barriel Los	1	and the state of t	and the second s	and the second se	
-61.4	and the state											
-71.4												
Start 12	.500 GH	z								_	Stop 2	25.000 GHz
#Res B	N 100 k⊦	z		#	VBV	V 300 kHz				Swe	eep 1.195 s	s (8192 pts)
MSG									STATUS		1000	
Contract Contractor	CALCULATION OF CALCULATION				2020		100000000000000000000000000000000000000	2211		The second second second		

BLE/GFSK 1 Mbps High Channel, 2480 MHz



BLE/GFSK 2 Mbps Low Channel, 2402 MHz





BLE/GFSK 2 Mbps Low Channel, 2402 MHz



BLE/GFSK 2 Mbps Low Channel, 2402 MHz

Agilent Spectrum Analyzer - Element Materials Technology										
(XI RL	RF 50 Q DC	SENSE: INT		ALIGN OFF	03:59:24 PM Oct 09, 2023					
				#Avg Type: Voltage	TRACE 1 2 3 4 5 6					
		PNO: Wide 🖵 Trig:	Free Run		DET P P P P P					
	_	IFGain:Low MAtter	1. 10 88							
	Ref Offeet 21 36 dB			MI	(r1 2.442 006 65 GHz					
10 dB/div	Ref 20.00 dBm				10.90 dBm					
Log										
			<u>1</u>							
10.0										
0.00										
-10.0										
-20.0										
-30.0										
10.0										
-40.0										
-60.0										
60.0										
-70.0										
Center 2.	4420000 GHz				Span 1.000 MHz					
#Res BW	100 kHz	#VBW 300	kHz	Sv	veep 1.092 ms (8192 pts)					
MSG				STATUS						

BLE/GFSK 2 Mbps Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps Mid Channel, 2442 MHz





BLE/GFSK 2 Mbps Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps High Channel, 2480 MHz

L	RF 50 1	DC CORREC		SENSE: INT	<u>A</u> /	LIGN OFF		04:08:4	1PM Oct 09, 2023
			PNO: Fast G	Trig: Free I #Atten: 10	Run dB	#Avg Type:	Voltage	Т	RACE 2 3 4 5 6 TYPE MWARAAAA DET P P P P P P
3/div	Ref Offset 2 Ref 18.65	0 dB dBm						Mkr1 2.5 -4	19 1 GHz 8.68 dBm
		<u></u>							
- t	فاستخداره المسادر	and the second second	والاستعاد المنجو	<sup>مل</sup> يهانيندي	at a second s	and the second	and the second second		and the second
t 30 Mi sBW 1	12 00 kHz		#VE	W 300 kHz			Swe	ep 1.192	12.500 GHz s (8192 pts)
						STATUS			

BLE/GFSK 2 Mbps High Channel, 2480 MHz



BLE/GFSK 2 Mbps High Channel, 2480 MHz