OUTPUT POWER

XMit 2019.06.11

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TIA	25-Apr-18	25-Apr-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	29-Mar-19	29-Mar-20
Attenuator	Fairview Microwave	SA4014-20	TKV	18-Jan-19	18-Jan-20
Block - DC	Fairview Microwave	SD3379	AMU	18-Jan-19	18-Jan-20
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	5-May-19	5-May-20

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

The method found in ANSI C63.10:2013 Section 7.8.5 was used for a FHSS radio.

OUTPUT POWER

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	Thor Radio Module AC WLAN and Bluetooth and BLE	Work Order:	ECHN0015
Serial Number:	Pre-production #1	Date:	17-Jul-19
Customer:	EchoNous, Inc.	Temperature:	22.5 °C
Attendees:	None	Humidity:	56.6% RH
Project:	None	Barometric Pres.:	1015 mbar
Tested by:	Brian Fahey and Jeff Alcoke	Power: 3.7 VDC	Job Site: NC0A

TEST SPECIFICATIONS	Test Method
FCC 15.247:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: RF measurement cable, 20 dB attenuator, and DC Block = 21.4 dBm.

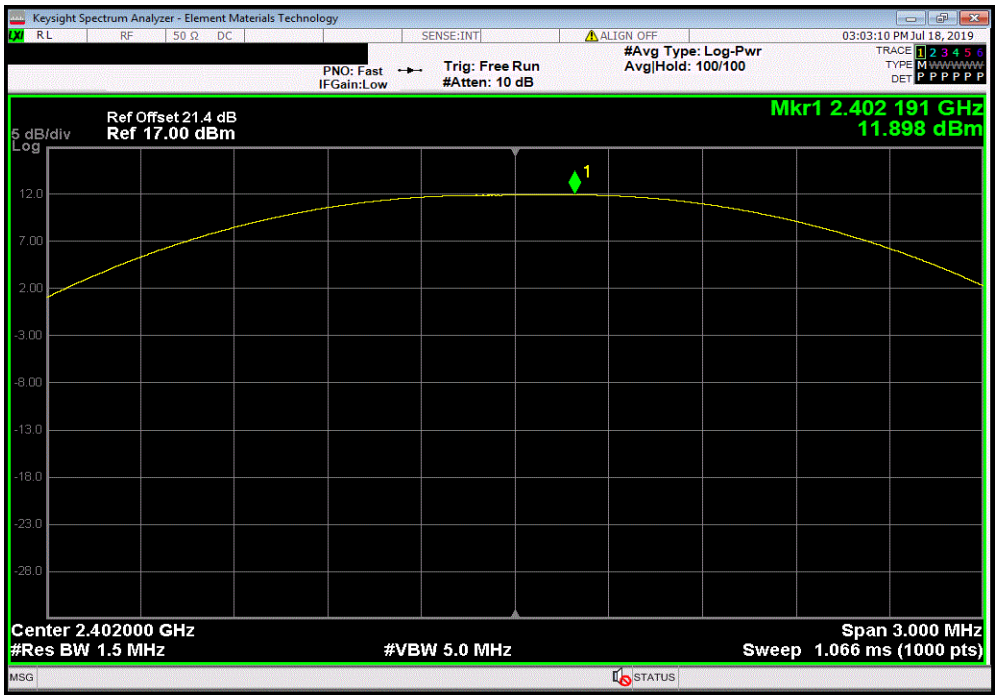
DEVIATIONS FROM TEST STANDARD

None

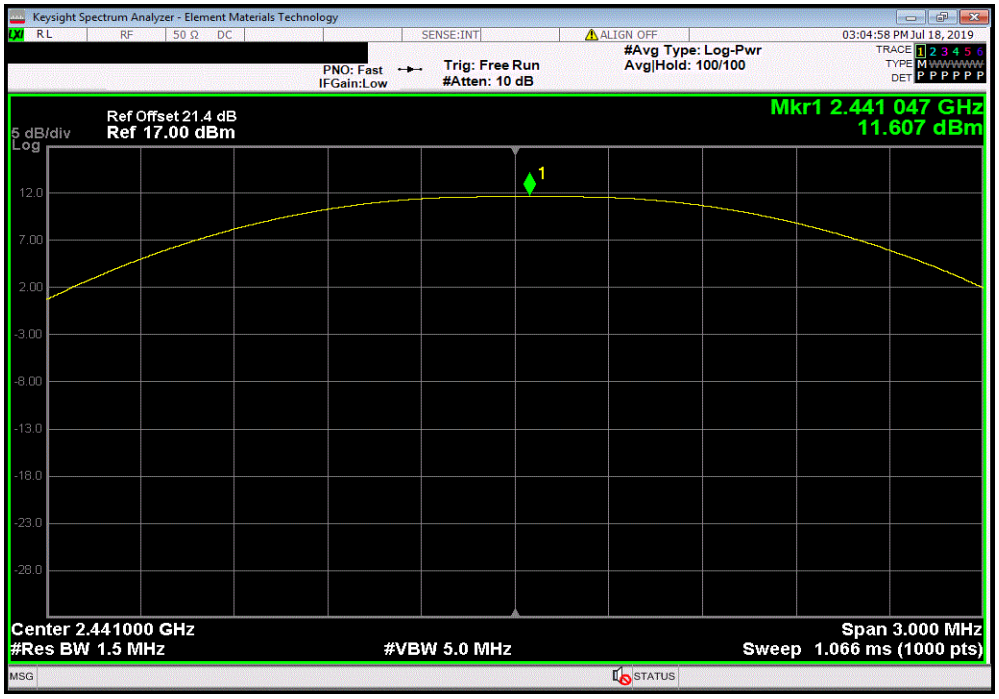
Configuration #	1	Signature

		Out Pwr (dBm)	Limit (dBm)	Result
DH5, GFSK				
	Low Channel, 2402 MHz	11.898	21	Pass
	Mid Channel, 2441 MHz	11.607	21	Pass
	High Channel, 2480 MHz	11.561	21	Pass
2DH5, pi/4-DQPSK				
	Low Channel, 2402 MHz	11.373	21	Pass
	Mid Channel, 2441 MHz	10.384	21	Pass
	High Channel, 2480 MHz	11.306	21	Pass
3DH5, 8-DPSK				
	Low Channel, 2402 MHz	11.216	21	Pass
	Mid Channel, 2441 MHz	10.686	21	Pass
	High Channel, 2480 MHz	11.576	21	Pass

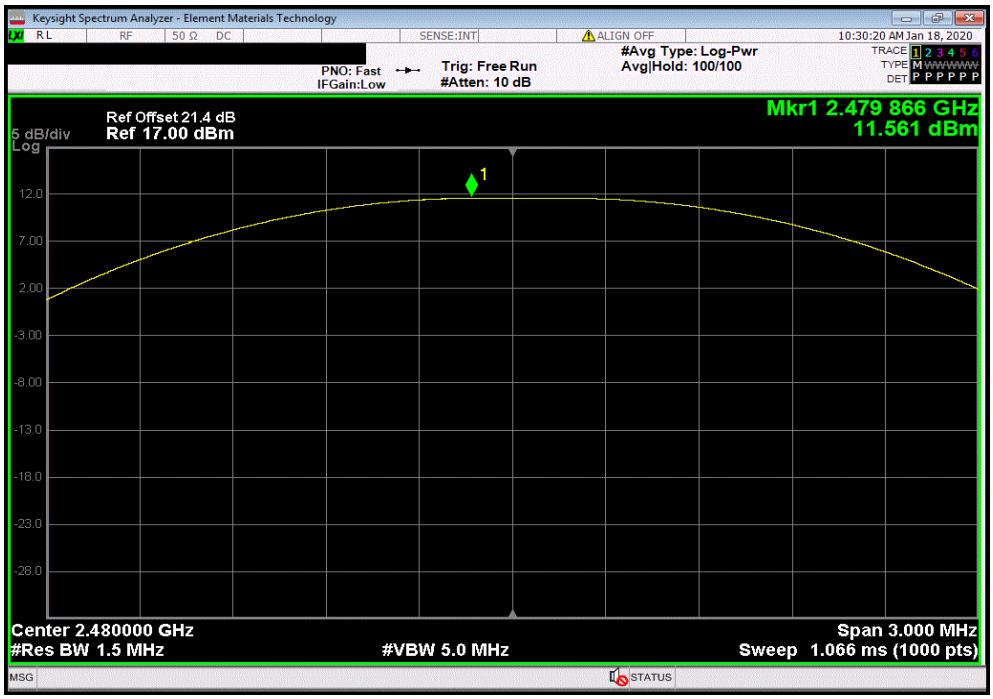
DH5, GFSK, Low Channel, 2402 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.898	21	Pass



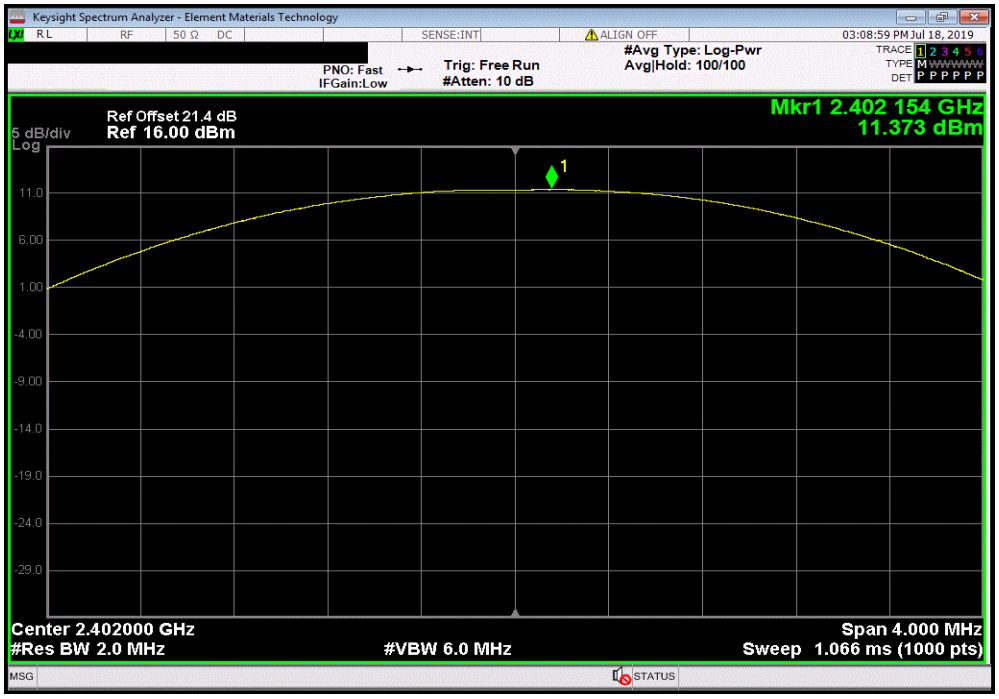
DH5, GFSK, Mid Channel, 2441 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.607	21	Pass



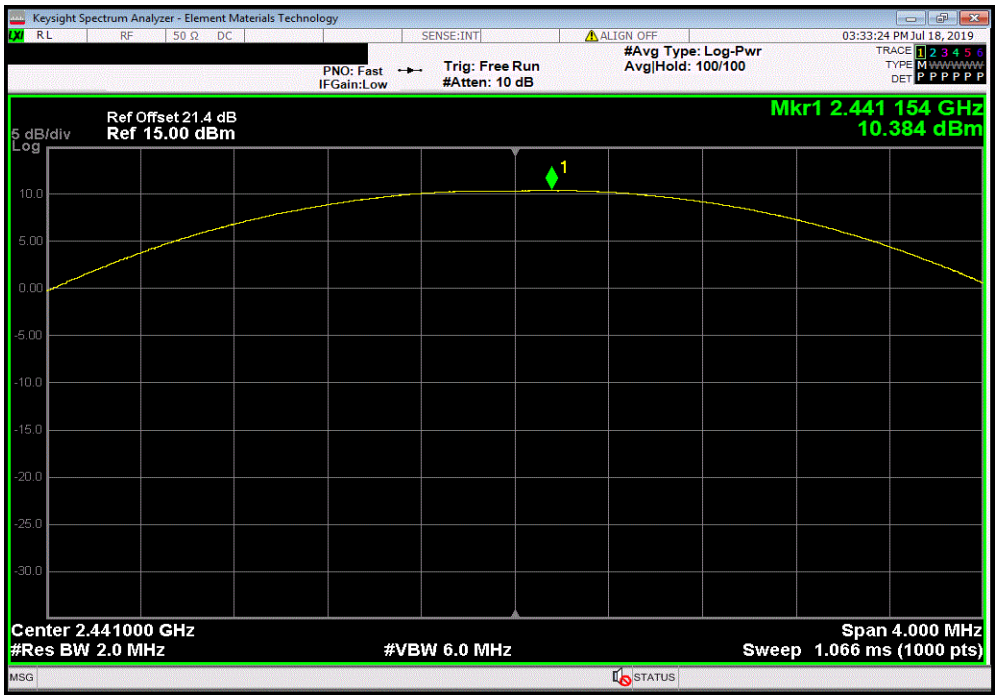
DH5, GFSK, High Channel, 2480 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.561	21	Pass



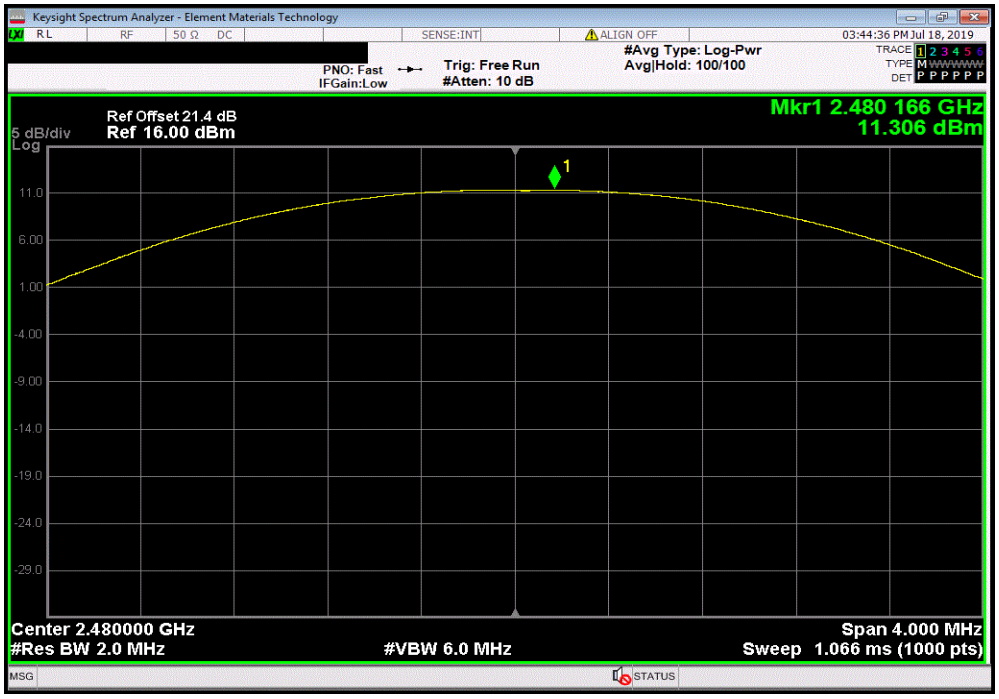
2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.373	21	Pass



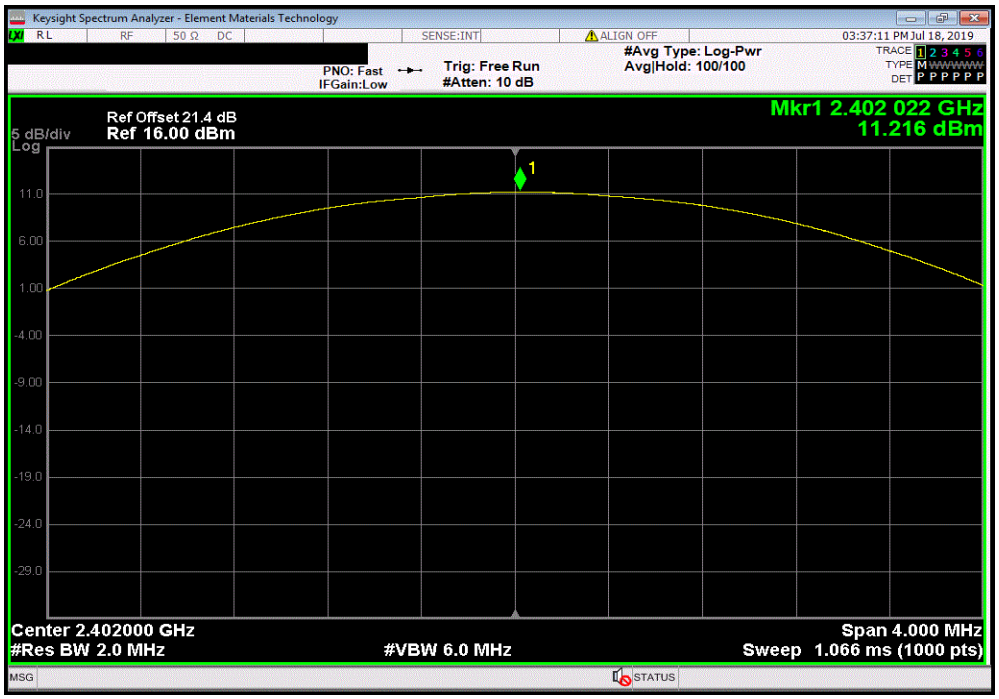
2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				10.384	21	Pass



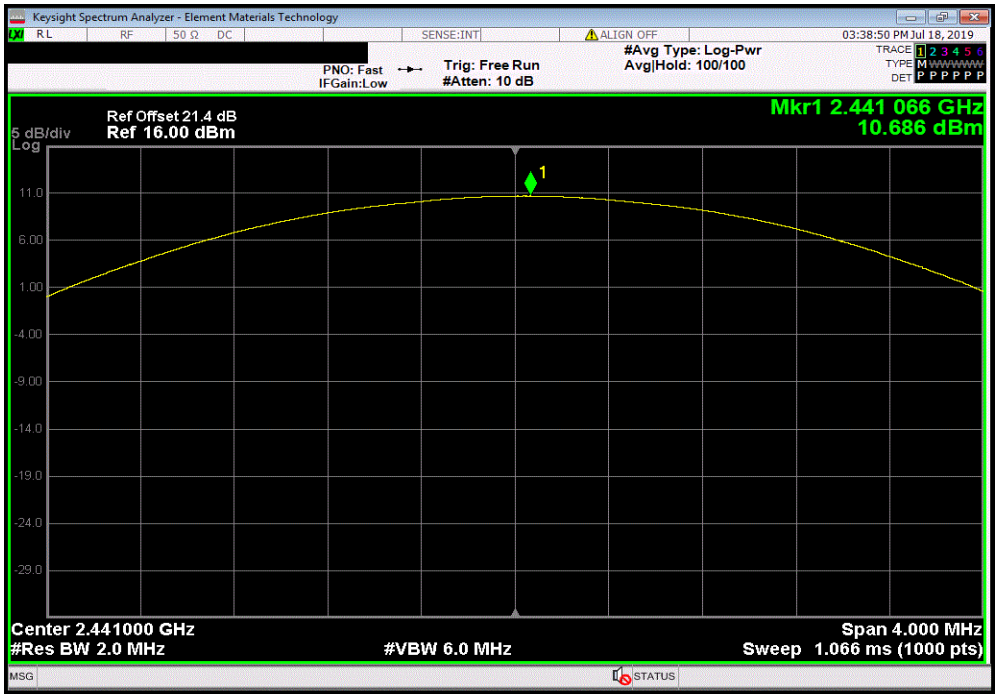
2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.306	21	Pass



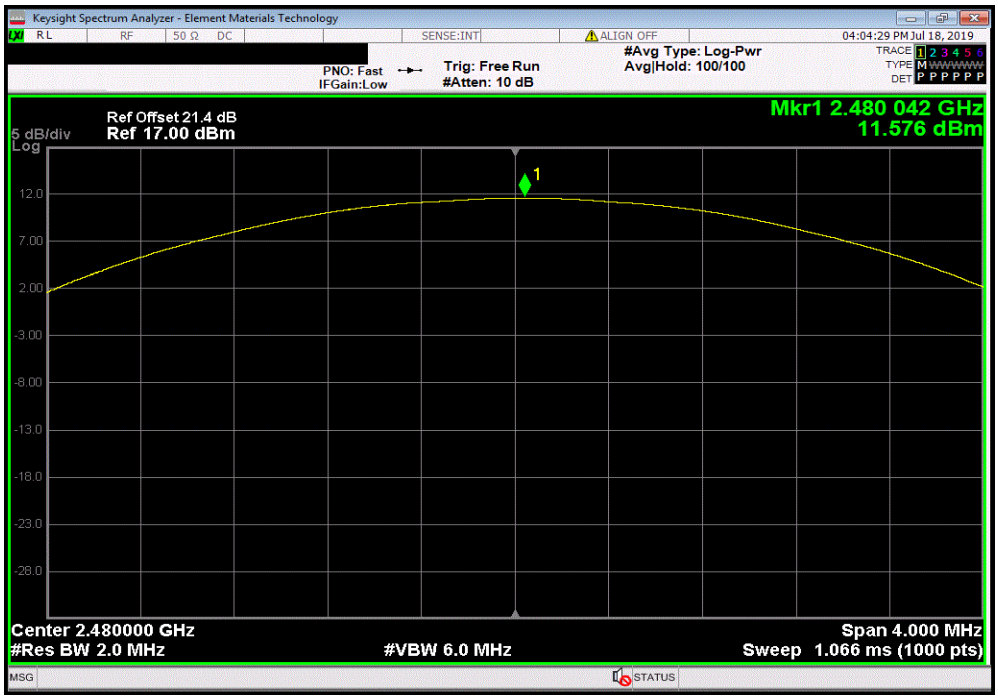
3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.216	21	Pass



3DH5, 8-DPSK, Mid Channel, 2441 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				10.686	21	Pass



3DH5, 8-DPSK, High Channel, 2480 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				11.576	21	Pass



EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

XMit 2019.06.11

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TIA	25-Apr-18	25-Apr-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	29-Mar-19	29-Mar-20
Attenuator	Fairview Microwave	SA4014-20	TKV	18-Jan-19	18-Jan-20
Block - DC	Fairview Microwave	SD3379	AMU	18-Jan-19	18-Jan-20
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	5-May-19	5-May-20

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

The method found in ANSI C63.10:2013 Section 7.8.5 was used for a FHSS radio. The antenna gain of the EUT was then added to the conducted output power to derive the EIRP values.

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	**Thor Radio Module AC WLAN and Bluetooth and BLE**	**Work Order:**	**ECHN0015**
Serial Number:	**Pre-production #1**	**Date:**	**17-Jul-19**
Customer:	**EchoNous, Inc.**	**Temperature:**	**22.5 °C**
Attendees:	**None**	**Humidity:**	**56.6% RH**
Project:	**None**	**Barometric Pres.:**	**1015 mbar**
Tested by:	**Brian Fahey and Jeff Alcoke** **Power:** **3.7 VDC**	**Job Site:**	**NC0A**

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: RF measurement cable, 20 dB attenuator, and DC Block = 21.4 dBm.

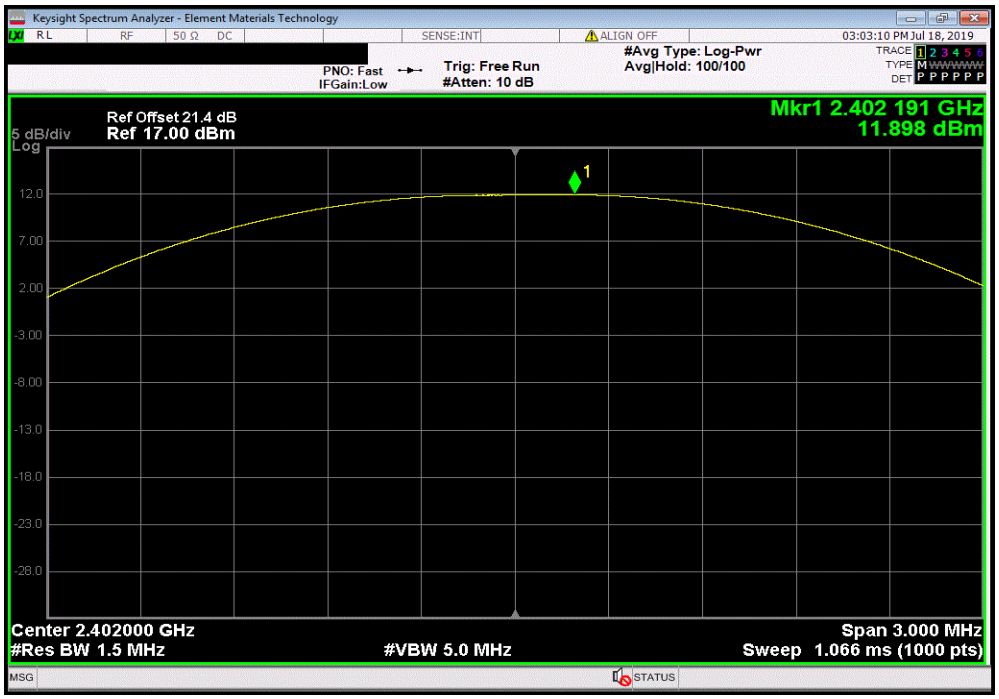
DEVIATIONS FROM TEST STANDARD

None

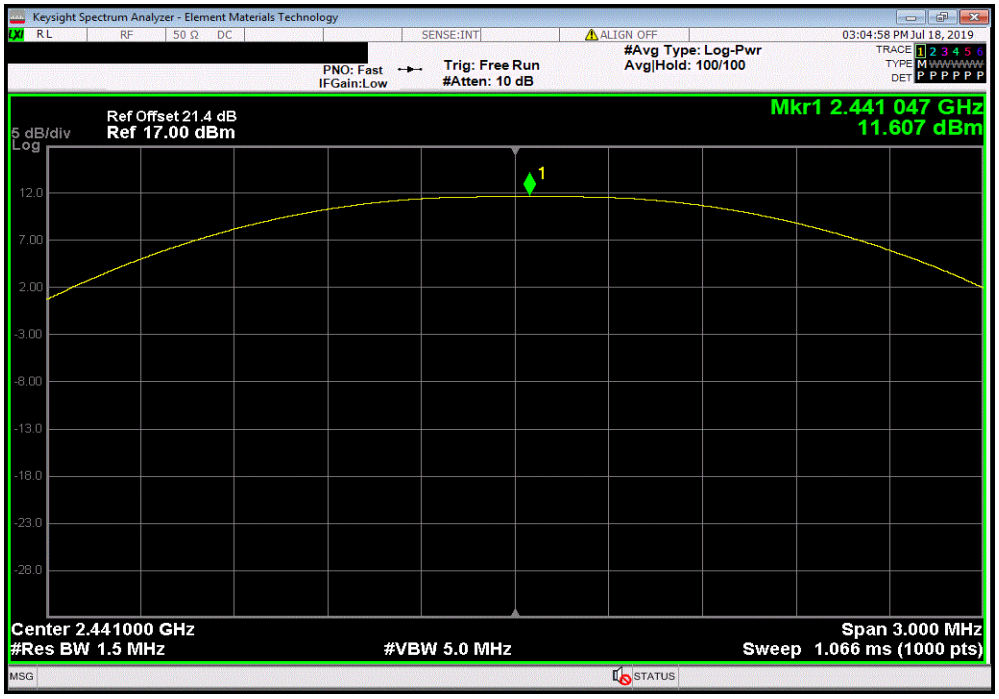
Configuration #	**1**	*Signature*

		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
DH5, GFSK						
	Low Channel, 2402 MHz	11.898	-1.29	10.608	27	Pass
	Mid Channel, 2441 MHz	11.607	-1.29	10.317	27	Pass
	High Channel, 2480 MHz	11.561	-1.29	10.271	27	Pass
2DH5, pi/4-DQPSK						
	Low Channel, 2402 MHz	11.373	-1.29	10.083	27	Pass
	Mid Channel, 2441 MHz	10.384	-1.29	9.094	27	Pass
	High Channel, 2480 MHz	11.306	-1.29	10.016	27	Pass
3DH5, 8-DPSK						
	Low Channel, 2402 MHz	11.216	-1.29	9.926	27	Pass
	Mid Channel, 2441 MHz	10.686	-1.29	9.396	27	Pass
	High Channel, 2480 MHz	11.576	-1.29	10.286	27	Pass

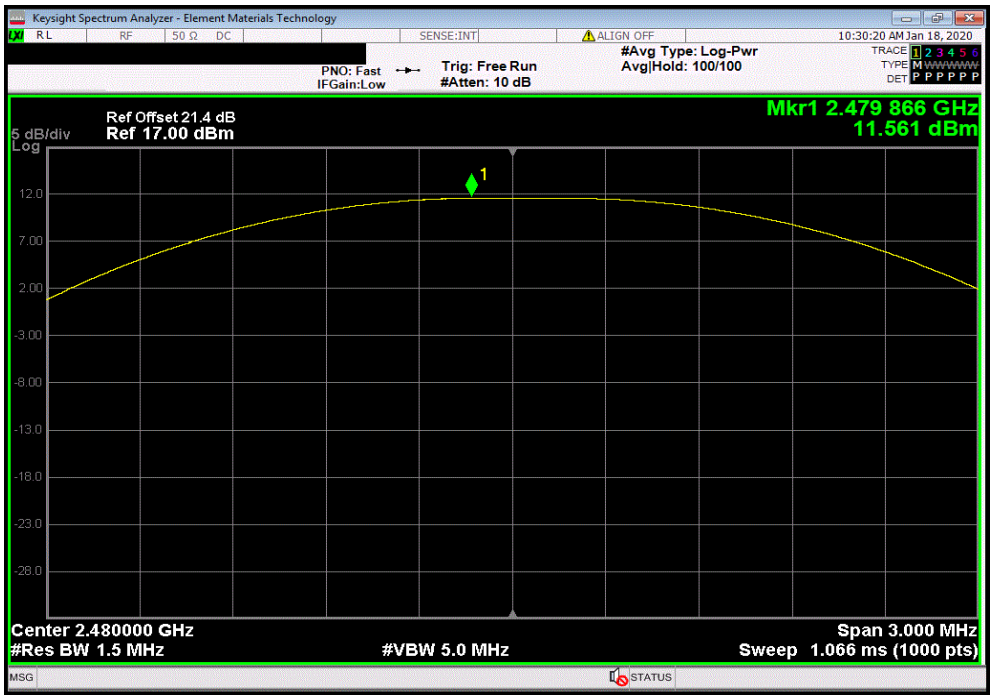
DH5, GFSK, Low Channel, 2402 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.898	-1.29	10.608	27	Pass



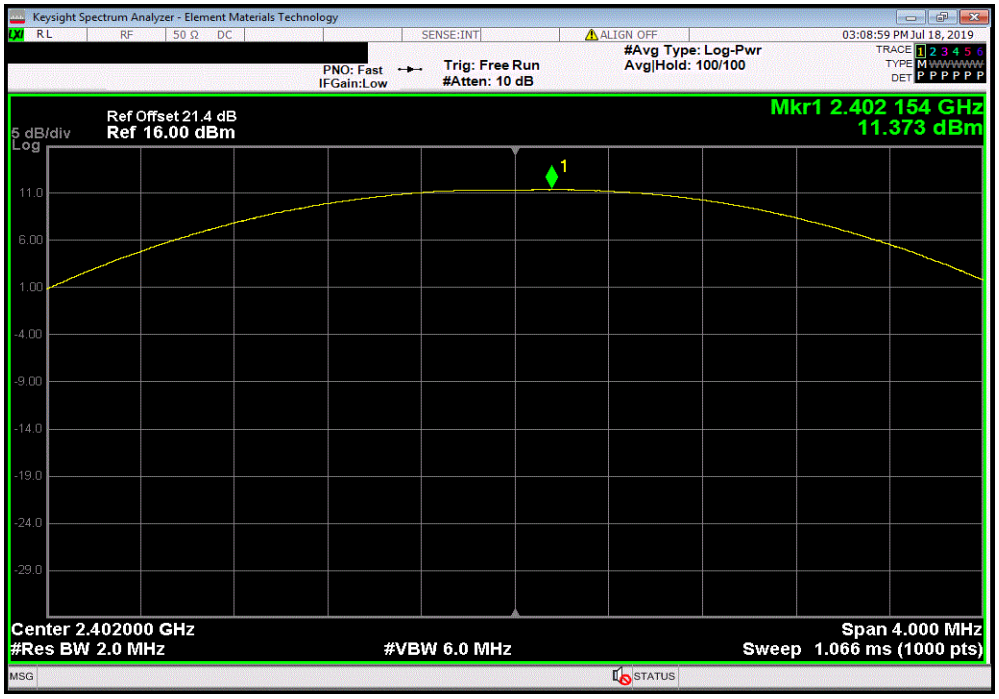
DH5, GFSK, Mid Channel, 2441 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.607	-1.29	10.317	27	Pass



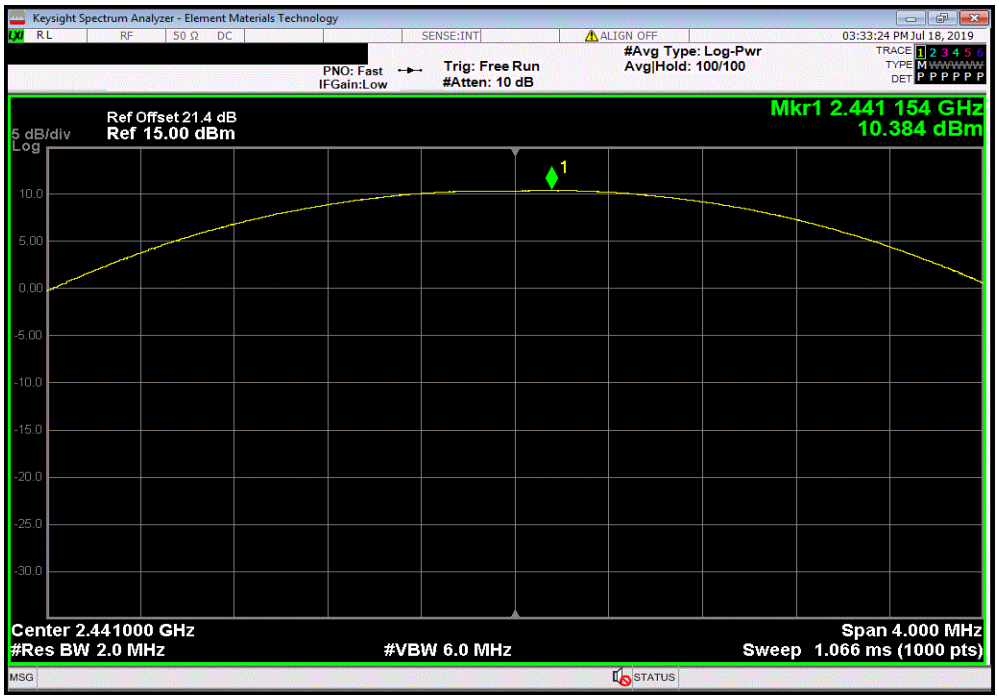
DH5, GFSK, High Channel, 2480 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.561	-1.29	10.271	27	Pass



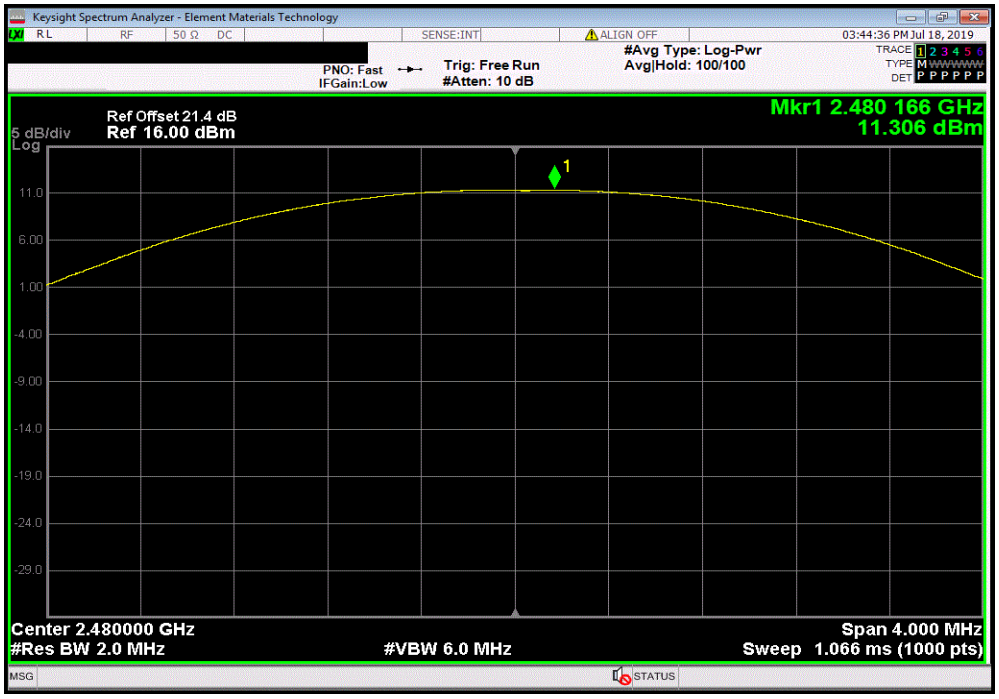
2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.373	-1.29	10.083	27	Pass



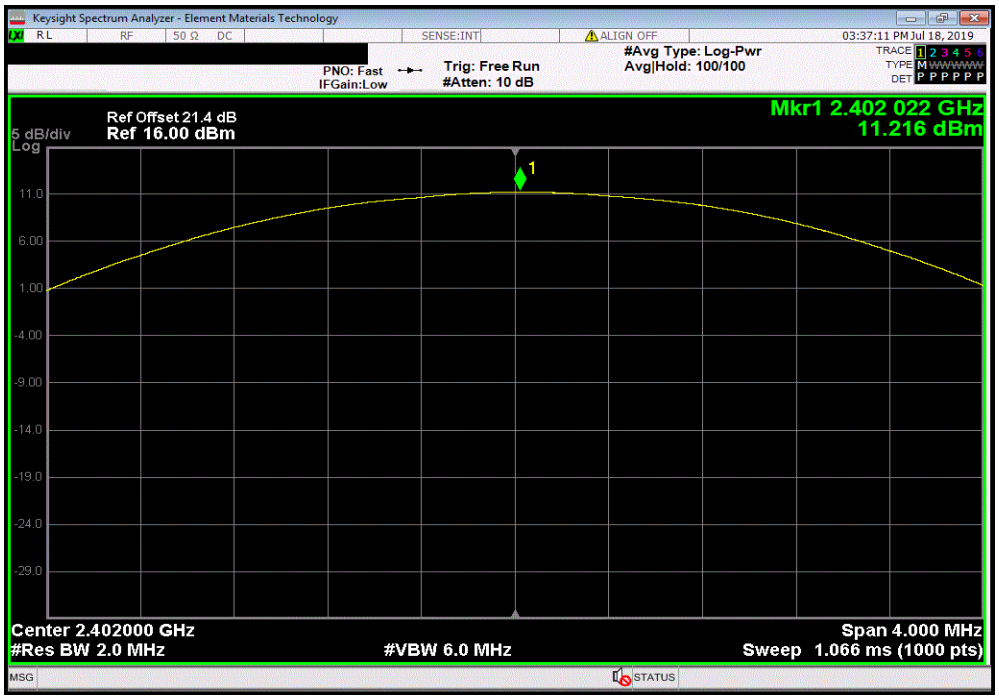
2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		10.384	-1.29	9.094	27	Pass



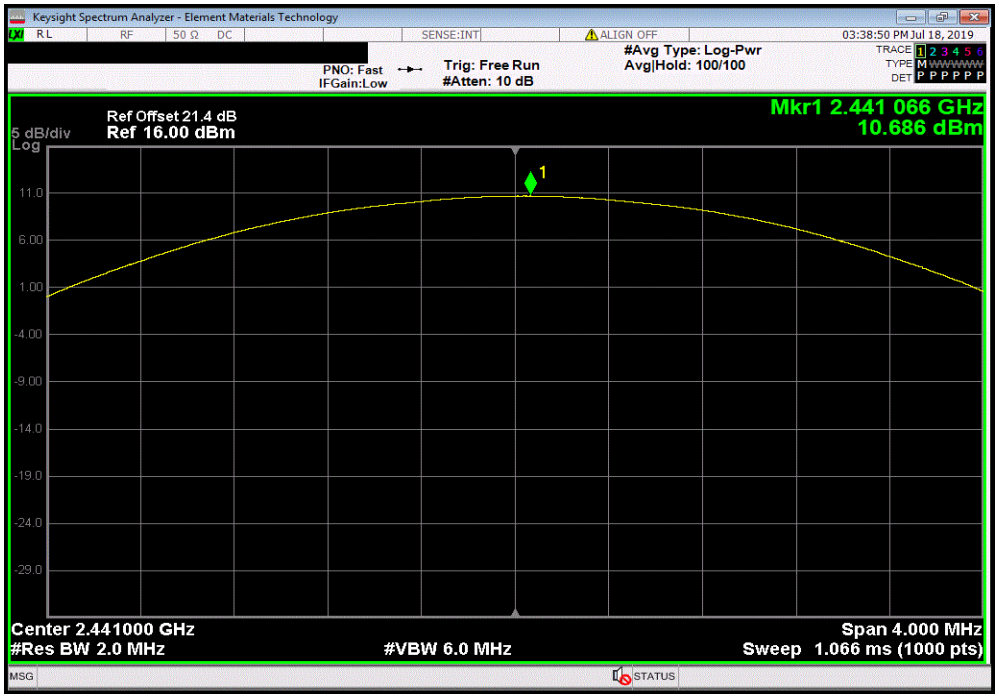
2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.306	-1.29	10.016	27	Pass



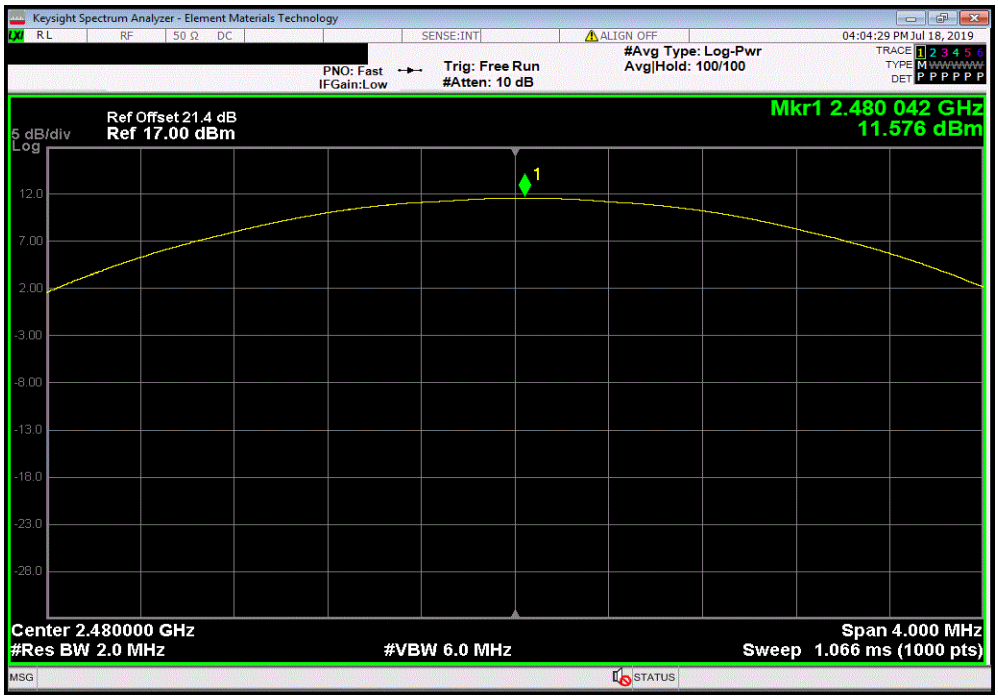
3DH5, 8-DPSK, Low Channel, 2402 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.216	-1.29	9.926	27	Pass



3DH5, 8-DPSK, Mid Channel, 2441 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		10.686	-1.29	9.396	27	Pass



3DH5, 8-DPSK, High Channel, 2480 MHz						
		Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
		11.576	-1.29	10.286	27	Pass



0

BAND EDGE COMPLIANCE

XMit 2019.06.11

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TIA	25-Apr-18	25-Apr-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	29-Mar-19	29-Mar-20
Attenuator	Fairview Microwave	SA4014-20	TKV	18-Jan-19	18-Jan-20
Block - DC	Fairview Microwave	SD3379	AMU	18-Jan-19	18-Jan-20
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	5-May-19	5-May-20

TEST DESCRIPTION

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 band were measured with the EUT set to low and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no hop mode. The channels closest to the band edges were selected.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	Thor Radio Module AC WLAN and Bluetooth and BLE	Work Order:	ECHN0015
Serial Number:	Pre-production #1	Date:	2-Aug-19
Customer:	EchoNous, Inc.	Temperature:	22.7 °C
Attendees:	None	Humidity:	61.8% RH
Project:	None	Barometric Pres.:	1021 mbar
Tested by:	Brian Fahey and Jeff Alcoke / Power: 3.7 VDC	Job Site:	NC0A

TEST SPECIFICATIONS	Test Method
FCC 15.247:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: RF measurement cable, 20 dB attenuator, and DC Block = 21.4 dBm.

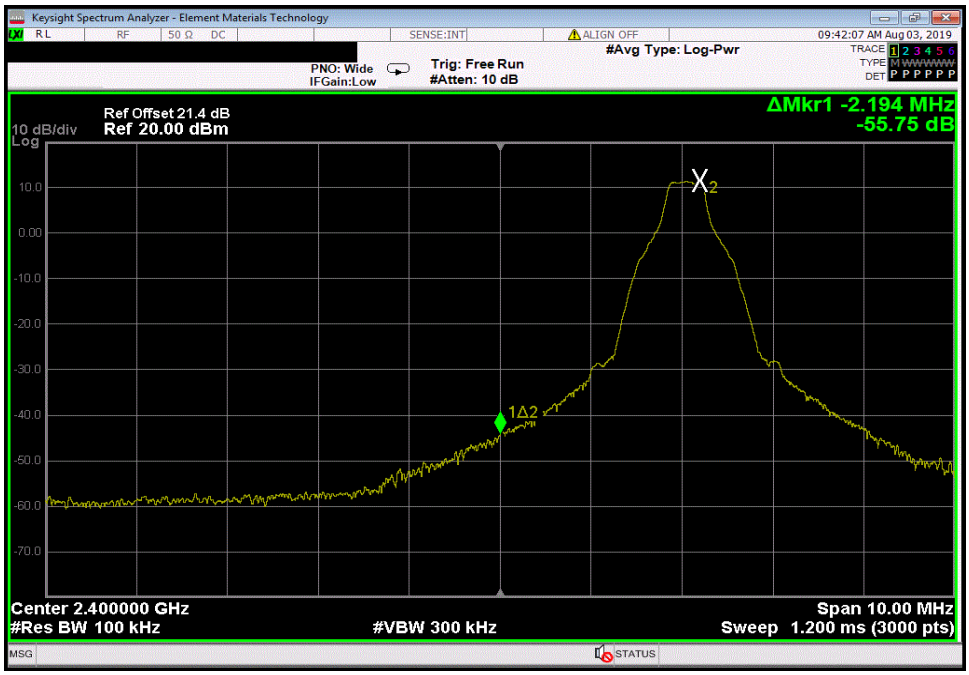
DEVIATIONS FROM TEST STANDARD

None

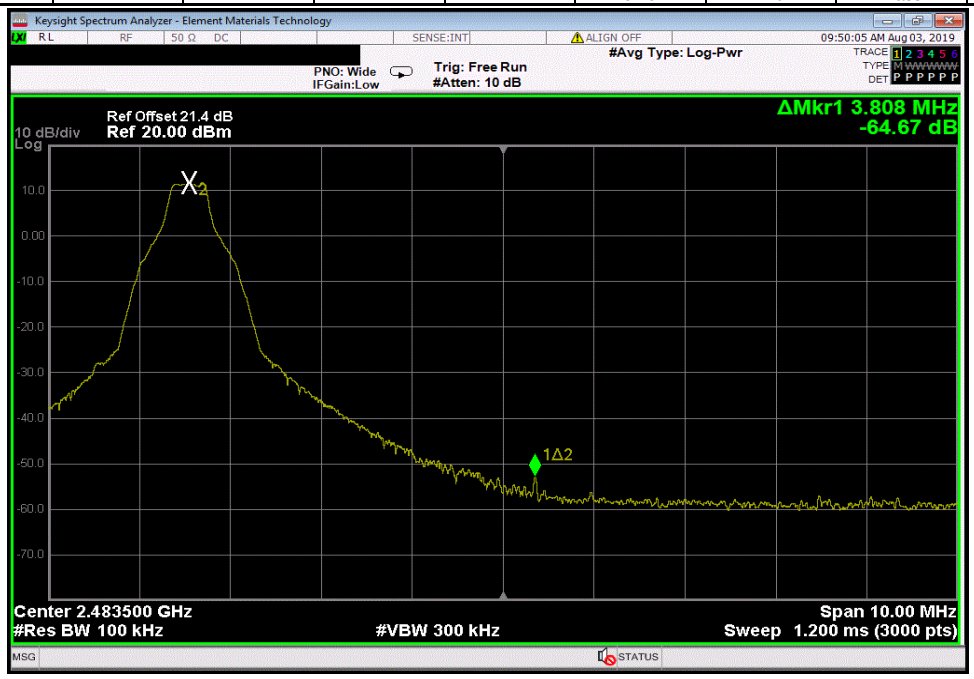
Configuration #	1	Signature

	Value (dBc)	Limit ≤ (dBc)	Result
DH5, GFSK, Single Channel			
Low Channel, 2402 MHz	-55.75	-20	Pass
High Channel, 2480 MHz	-64.67	-20	Pass
2DH5, pi/4-DQPSK, Single Channel			
Low Channel, 2402 MHz	-55.32	-20	Pass
High Channel, 2480 MHz	-65.27	-20	Pass
3DH5, 8-DPSK, Single Channel			
Low Channel, 2402 MHz	-55.9	-20	Pass
High Channel, 2480 MHz	-65.21	-20	Pass

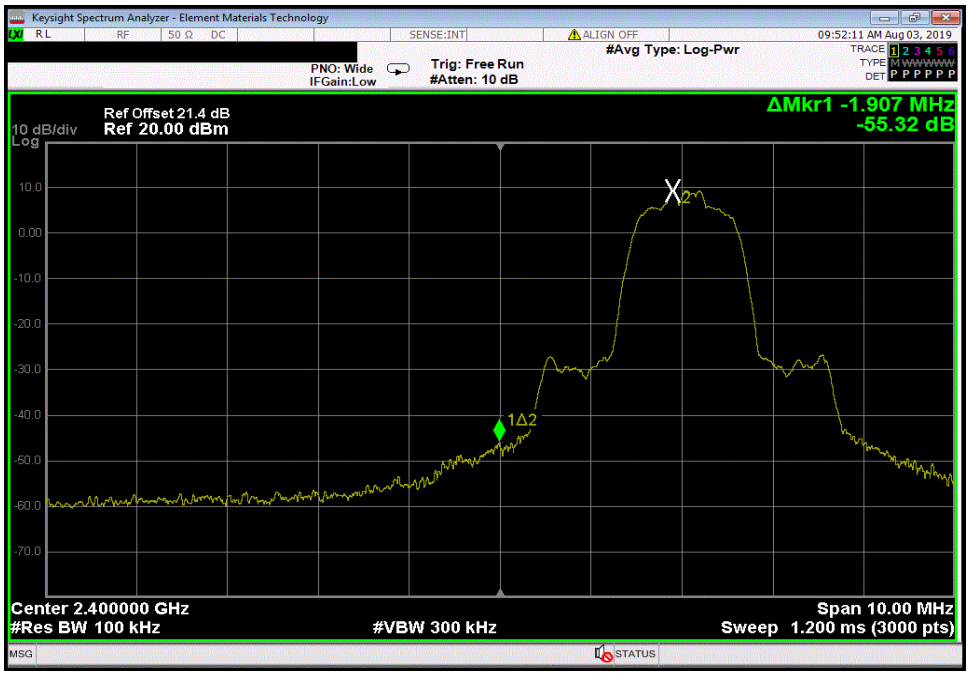
DH5, GFSK, Single Channel, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-55.75	-20	Pass



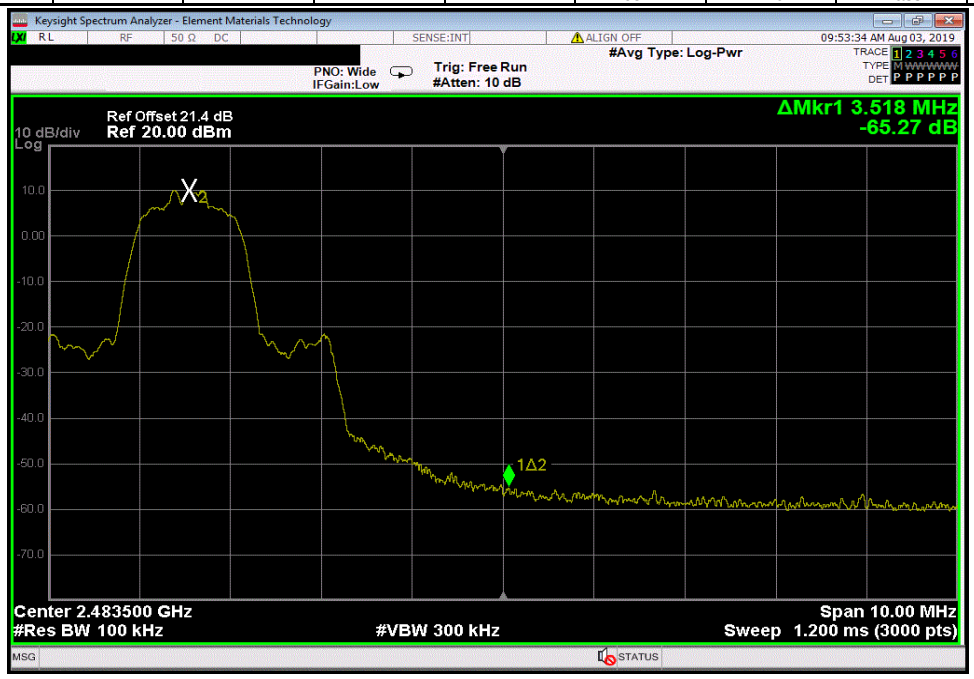
DH5, GFSK, Single Channel, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-64.67	-20	Pass



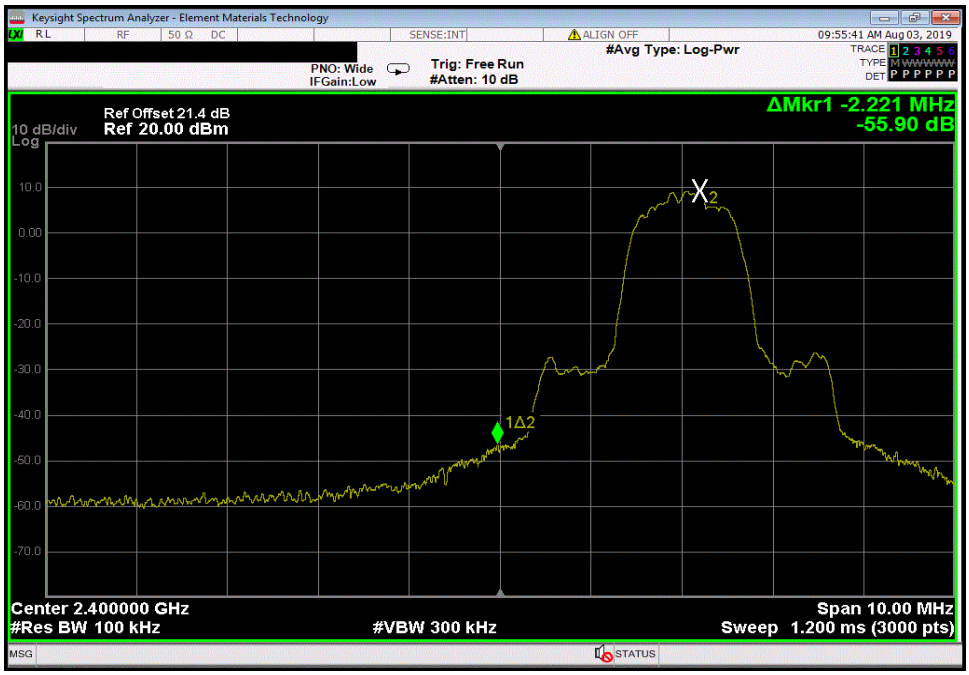
2DH5, pi/4-DQPSK, Single Channel, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-55.32	-20	Pass



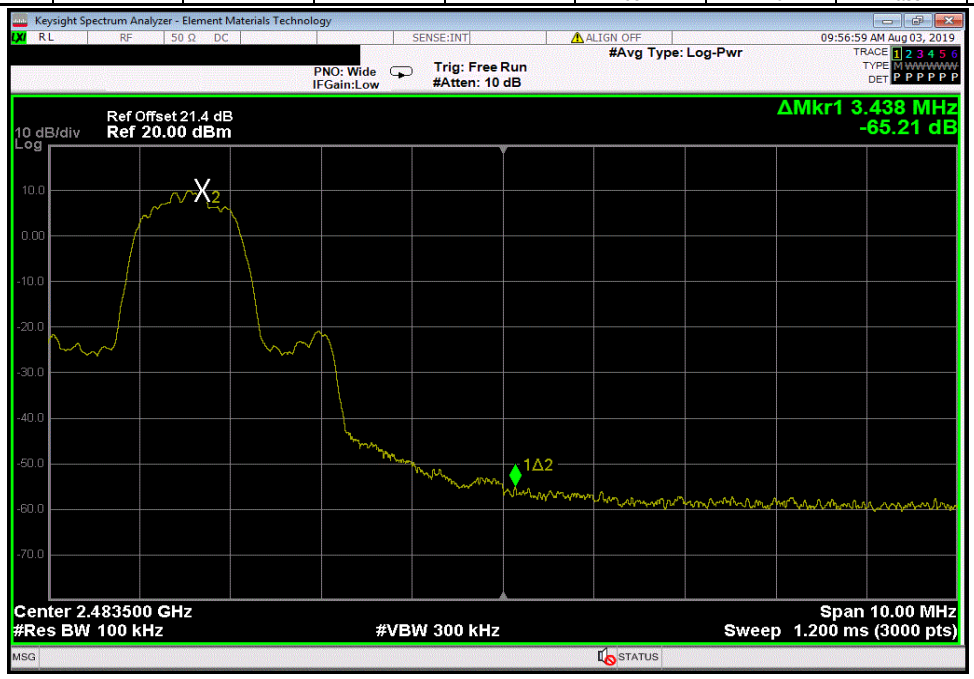
2DH5, pi/4-DQPSK, Single Channel, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-65.27	-20	Pass



3DH5, 8-DPSK, Single Channel, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-55.9	-20	Pass



3DH5, 8-DPSK, Single Channel, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-65.21	-20	Pass



BAND EDGE COMPLIANCE - HOPPING MODE

XMit 2019.06.11

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TIA	25-Apr-18	25-Apr-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	29-Mar-19	29-Mar-20
Attenuator	Fairview Microwave	SA4014-20	TKV	18-Jan-19	18-Jan-20
Block - DC	Fairview Microwave	SD3379	AMU	18-Jan-19	18-Jan-20
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	5-May-19	5-May-20

TEST DESCRIPTION

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 band were measured with the EUT set to low and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no hop mode. The channels closest to the band edges were selected.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE - HOPPING MODE

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	Thor Radio Module AC WLAN and Bluetooth and BLE	Work Order:	ECHN0015
Serial Number:	Pre-production #1	Date:	1-Aug-19
Customer:	EchoNous, Inc.	Temperature:	22.6 °C
Attendees:	None	Humidity:	47.7% RH
Project:	None	Barometric Pres.:	1017 mbar
Tested by:	Brian Fahey and Jeff Alcoke / Power: 3.7 VDC	Job Site:	NC0A

TEST SPECIFICATIONS	Test Method
FCC 15.247:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: RF measurement cable, 20 dB attenuator, and DC Block = 21.4 dBm.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

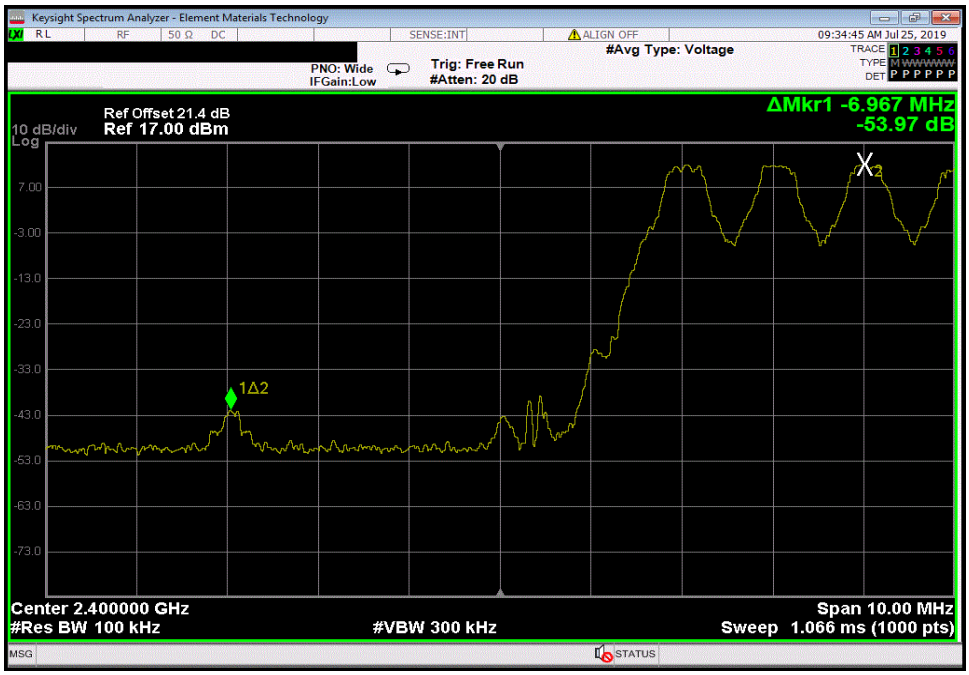
	Value (dBc)	Limit ≤ (dBc)	Result
DH5, GFSK, Hopping Mode			
Low Channel, 2402 MHz	-53.97	-20	Pass
High Channel, 2480 MHz	-51.46	-20	Pass
2DH5, pi/4-DQPSK, Hopping Mode			
Low Channel, 2402 MHz	-50.61	-20	Pass
High Channel, 2480 MHz	-50.68	-20	Pass
3DH5, 8-DPSK, Hopping Mode			
Low Channel, 2402 MHz	-51.9	-20	Pass
High Channel, 2480 MHz	-51.68	-20	Pass

BAND EDGE COMPLIANCE - HOPPING MODE

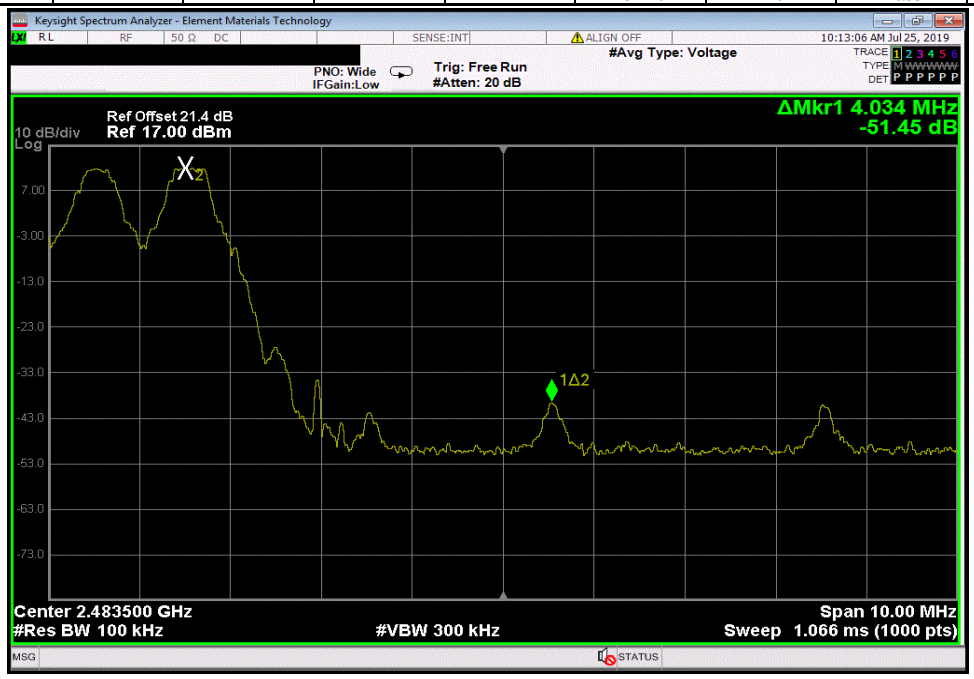
element

TbtTx 2018.09.13 XMit 2019.06.11

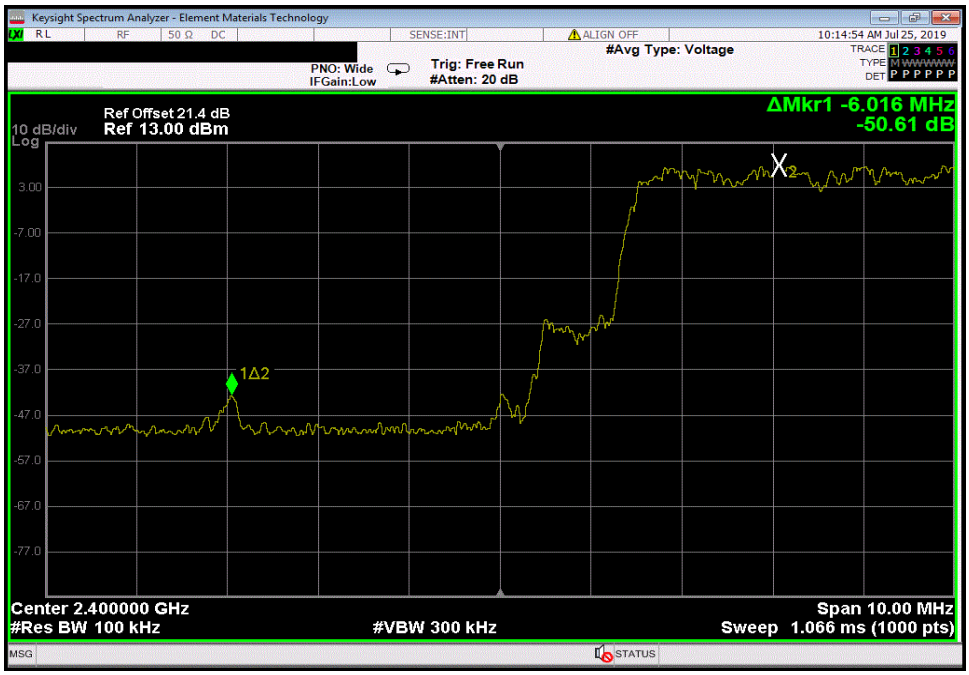
DH5, GFSK, Hopping Mode, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-53.97	-20	Pass



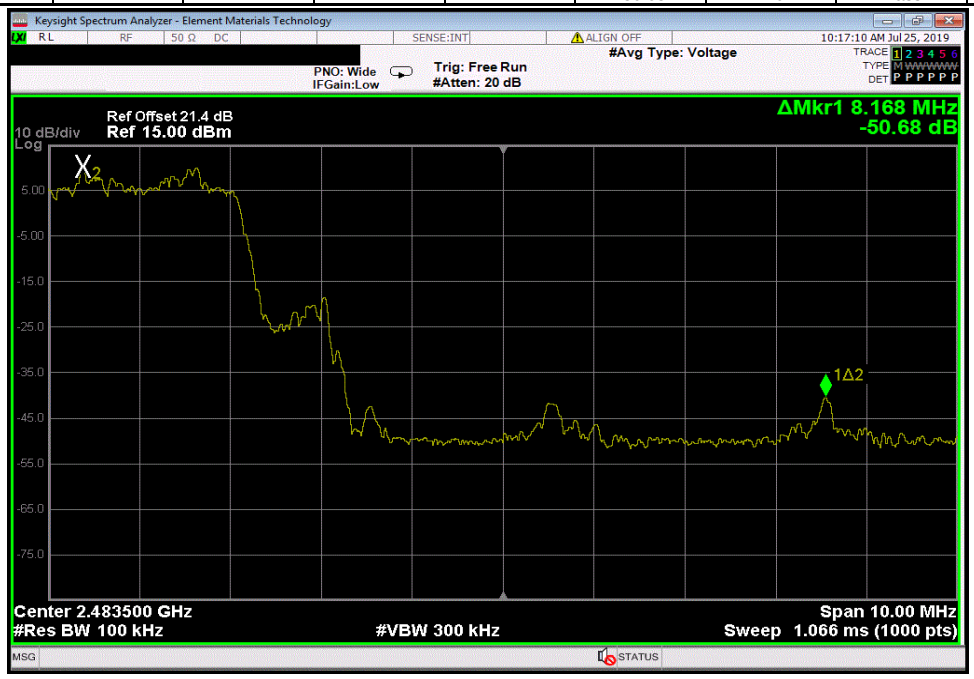
DH5, GFSK, Hopping Mode, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-51.46	-20	Pass



2DH5, pi/4-DQPSK, Hopping Mode, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-50.61	-20	Pass



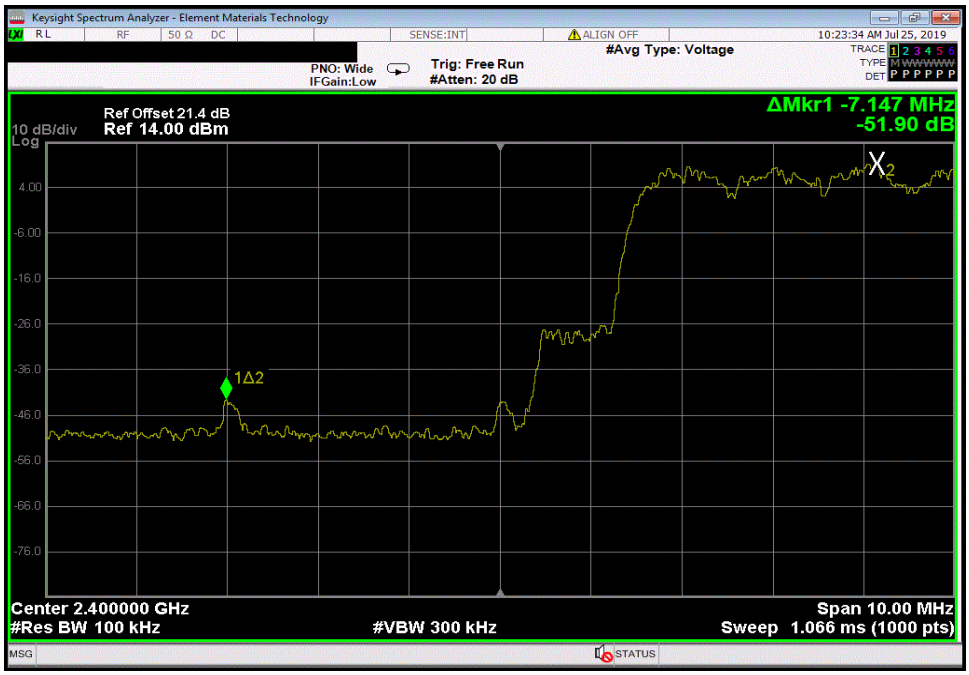
2DH5, pi/4-DQPSK, Hopping Mode, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-50.68	-20	Pass



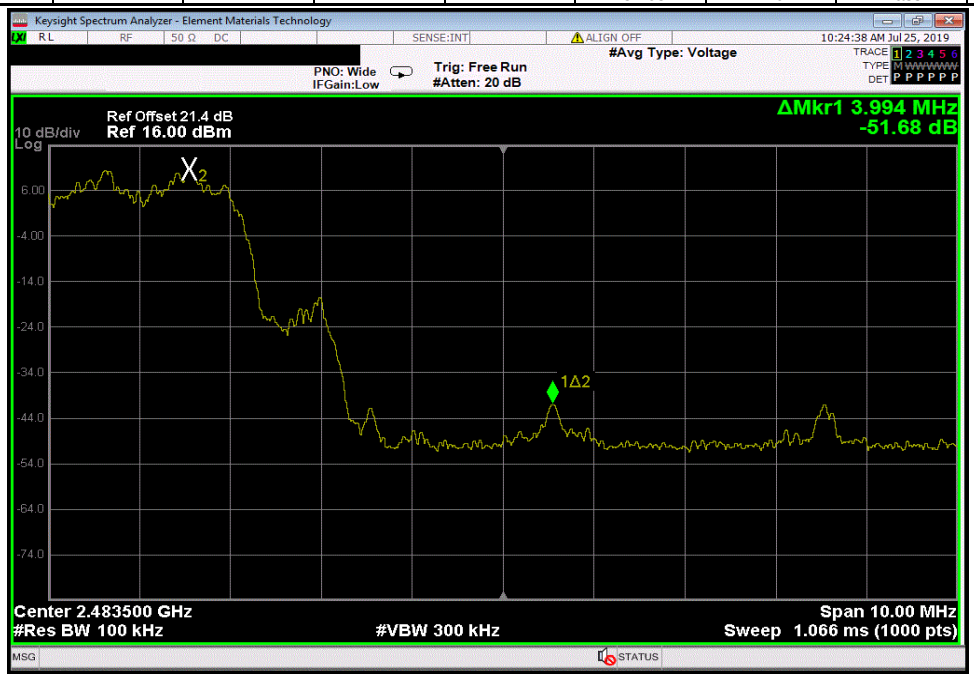
BAND EDGE COMPLIANCE - HOPPING MODE

TbtTx 2018.09.13 XMit 2019.06.11

3DH5, 8-DPSK, Hopping Mode, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-51.9	-20	Pass



3DH5, 8-DPSK, Hopping Mode, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-51.68	-20	Pass



OCCUPIED BANDWIDTH

XMit 2019.06.11

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TIA	25-Apr-18	25-Apr-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	29-Mar-19	29-Mar-20
Attenuator	Fairview Microwave	SA4014-20	TKV	18-Jan-19	18-Jan-20
Block - DC	Fairview Microwave	SD3379	AMU	18-Jan-19	18-Jan-20
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	5-May-19	5-May-20

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The 20 dB occupied bandwidth was measured with the EUT set to low, medium and high transmit frequencies in the band. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode.

OCCUPIED BANDWIDTH

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	Thor Radio Module AC WLAN and Bluetooth and BLE	Work Order:	ECHN0015
Serial Number:	Pre-production #1	Date:	17-Jul-19
Customer:	EchoNous, Inc.	Temperature:	22.5 °C
Attendees:	None	Humidity:	56.9% RH
Project:	None	Barometric Pres.:	1015 mbar
Tested by:	Brian Fahey and Jeff Alcoke	Power: 3.7 VDC	Job Site: NC0A

TEST SPECIFICATIONS	Test Method
FCC 15.247:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: RF measurement cable, 20 dB attenuator, and DC Block = 21.4 dBm.

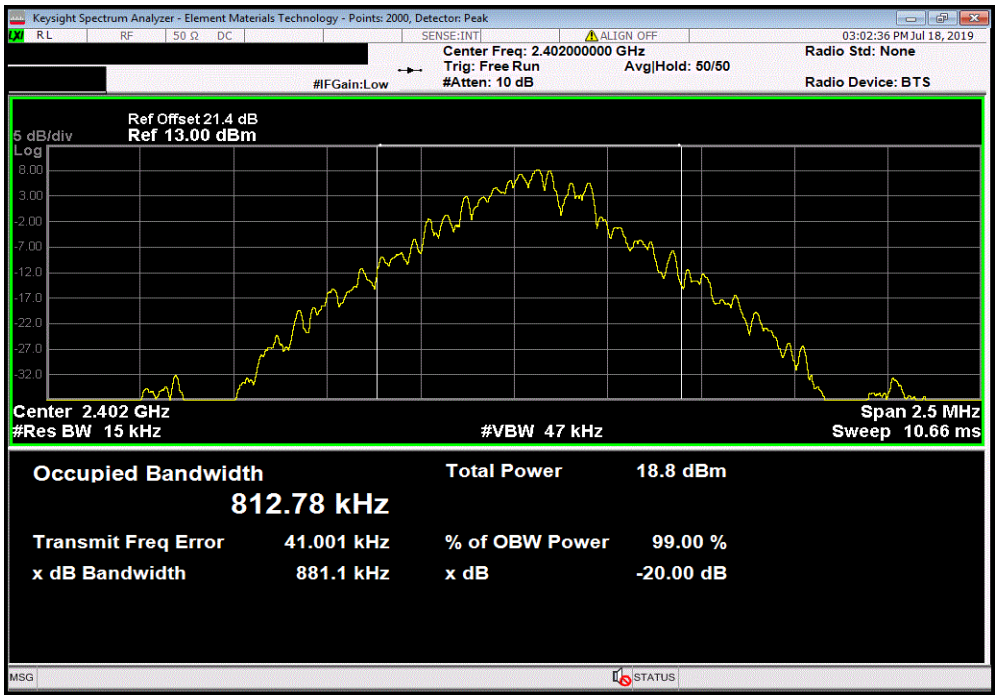
DEVIATIONS FROM TEST STANDARD

None

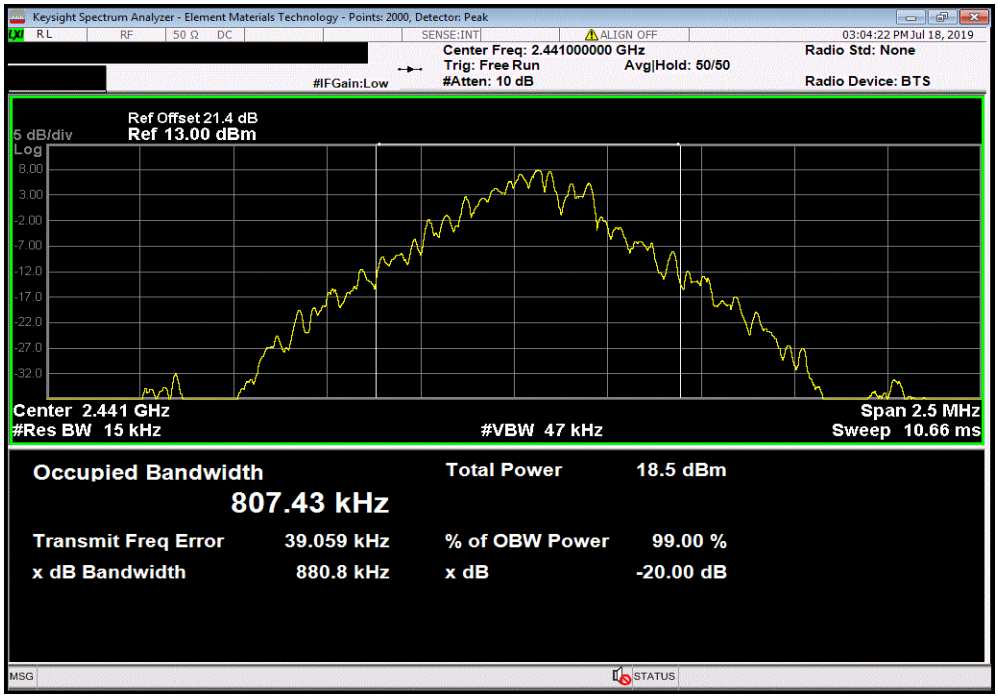
Configuration #	1	Signature

		Value	Limit (<)	Result
DH5, GFSK				
	Low Channel, 2402 MHz	881.099 kHz	1.5 MHz	Pass
	Mid Channel, 2441 MHz	880.771 kHz	1.5 MHz	Pass
	High Channel, 2480 MHz	880.964 kHz	1.5 MHz	Pass
2DH5, pi/4-DQPSK				
	Low Channel, 2402 MHz	1.257 MHz	1.5 MHz	Pass
	Mid Channel, 2441 MHz	1.257 MHz	1.5 MHz	Pass
	High Channel, 2480 MHz	1.266 MHz	1.5 MHz	Pass
3DH5, 8-DPSK				
	Low Channel, 2402 MHz	1.26 MHz	1.5 MHz	Pass
	Mid Channel, 2441 MHz	1.258 MHz	1.5 MHz	Pass
	High Channel, 2480 MHz	1.261 MHz	1.5 MHz	Pass

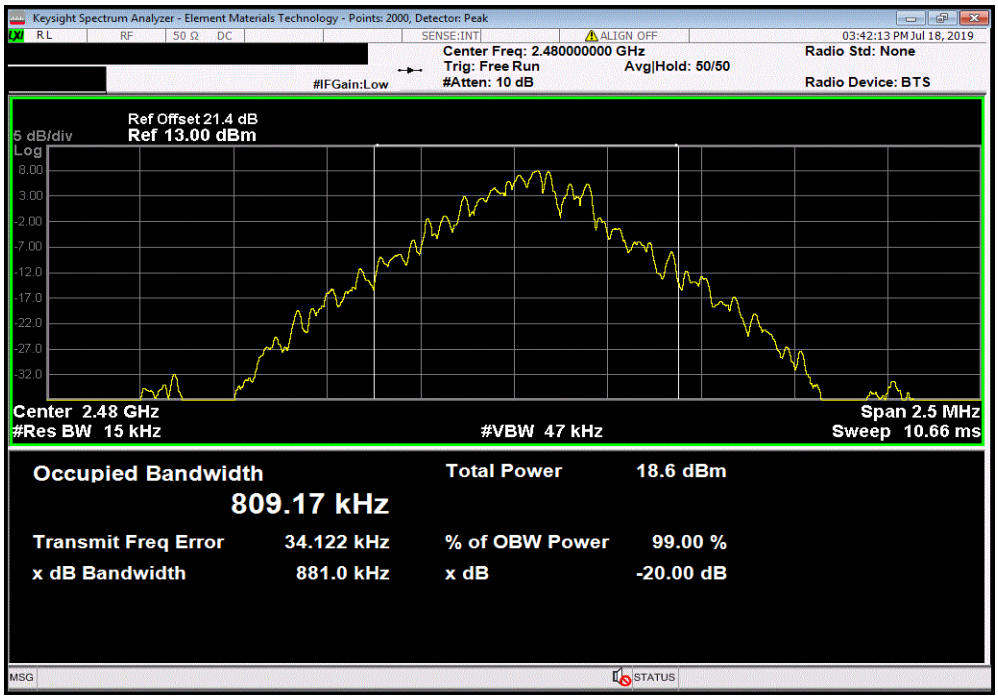
DH5, GFSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				881.099 kHz	1.5 MHz	Pass



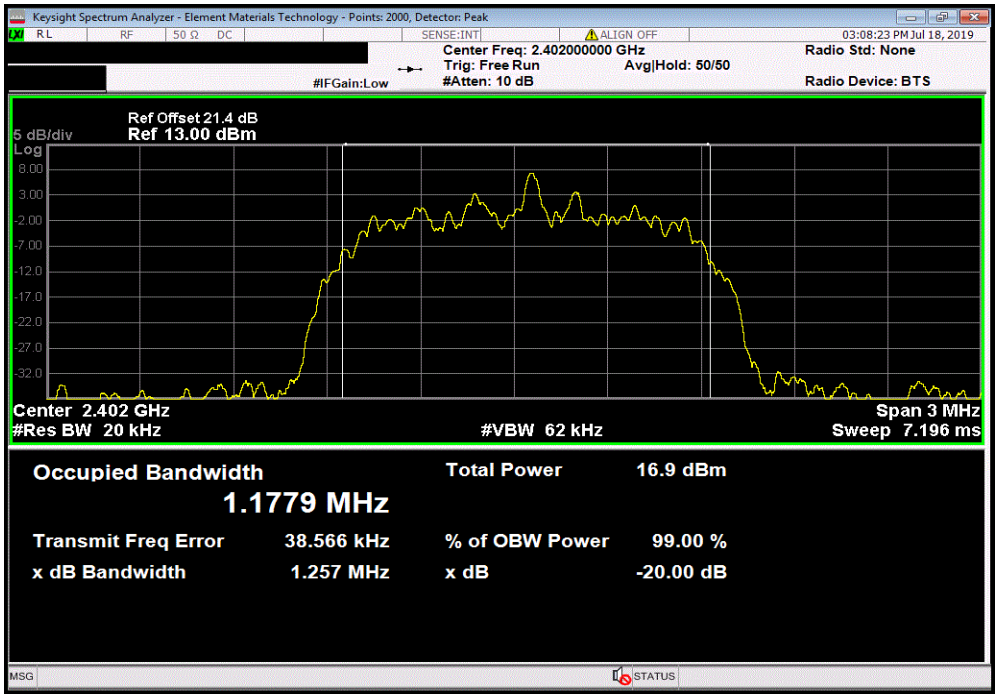
DH5, GFSK, Mid Channel, 2441 MHz						
				Value	Limit (<)	Result
				880.771 kHz	1.5 MHz	Pass



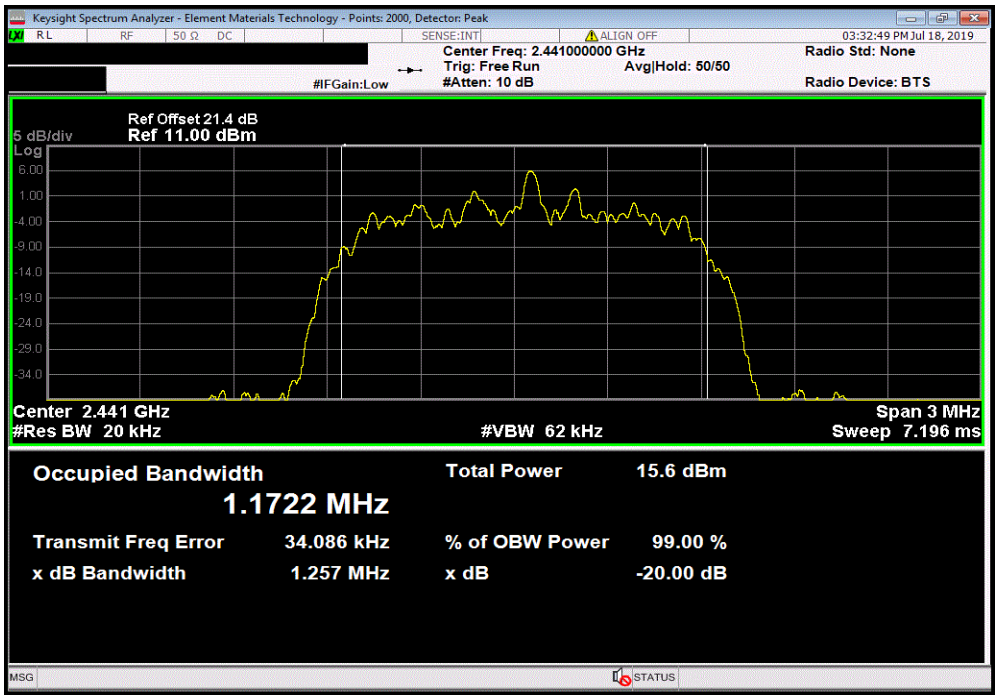
DH5, GFSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				880.964 kHz	1.5 MHz	Pass



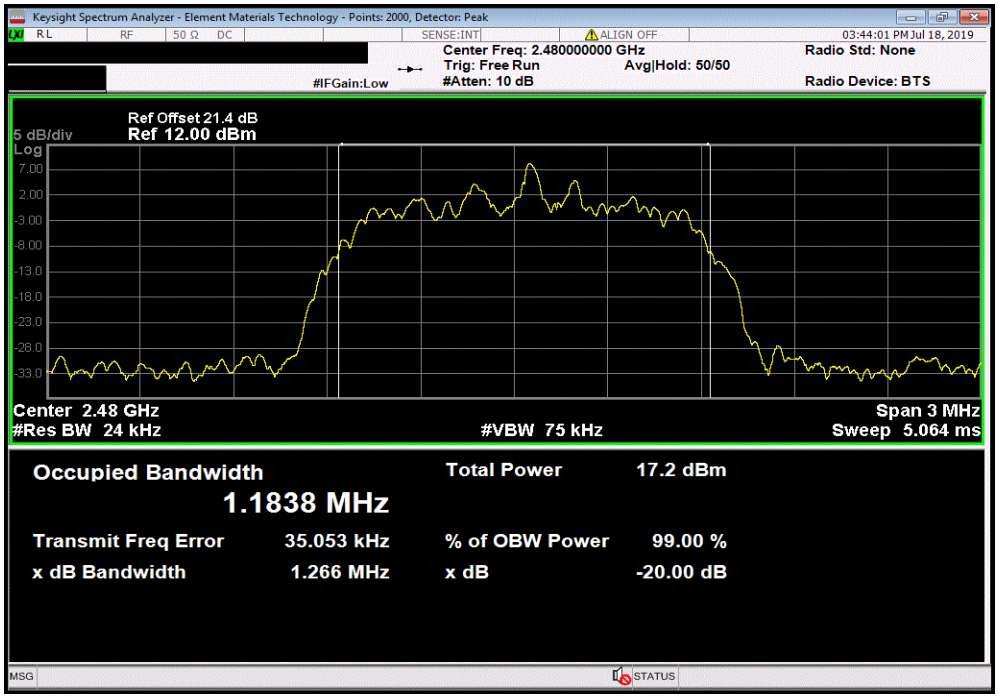
2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				1.257 MHz	1.5 MHz	Pass



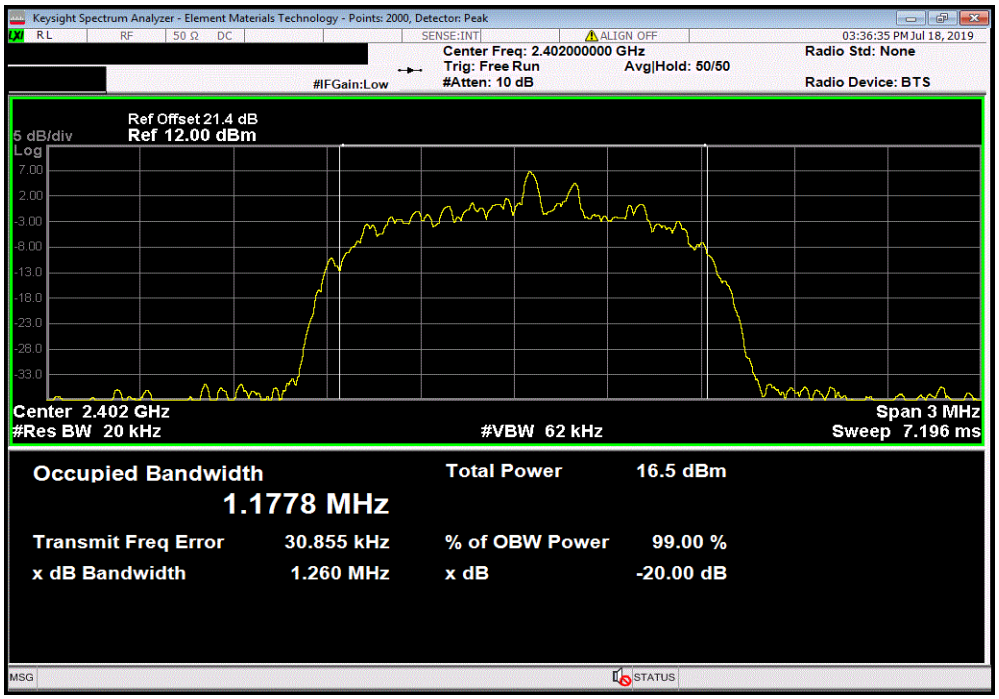
2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz						
				Value	Limit (<)	Result
				1.257 MHz	1.5 MHz	Pass



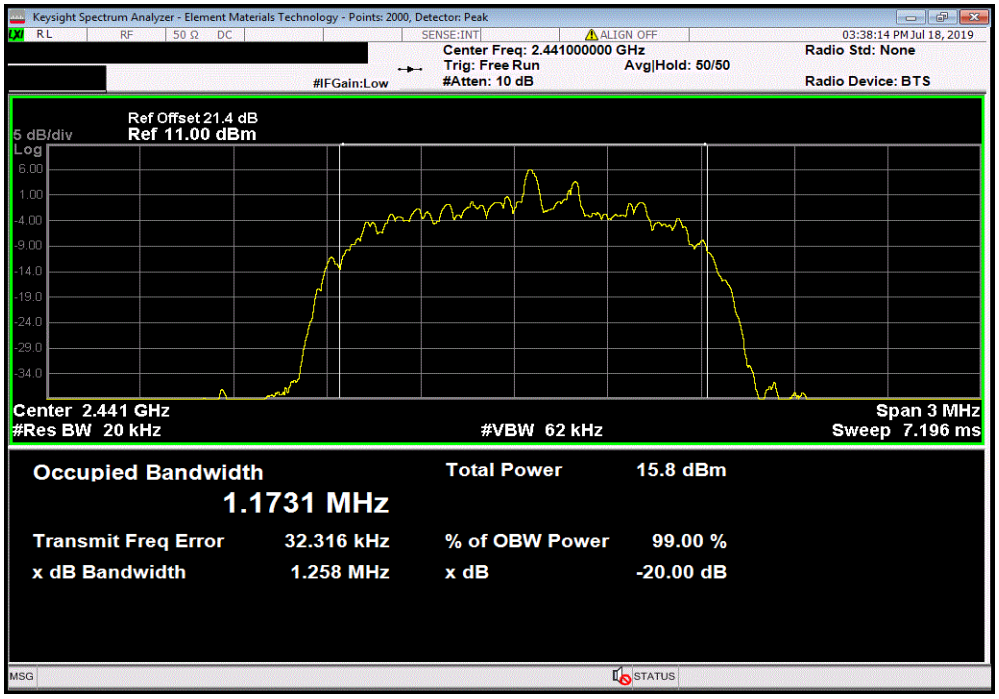
2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				1.266 MHz	1.5 MHz	Pass



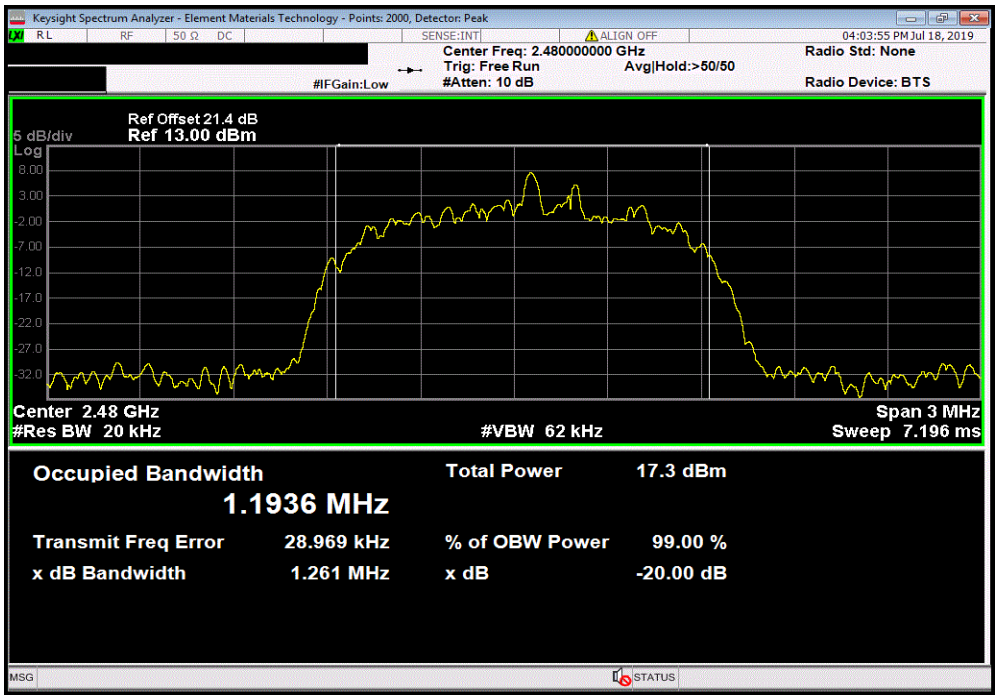
3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				1.26 MHz	1.5 MHz	Pass



3DH5, 8-DPSK, Mid Channel, 2441 MHz						
				Value	Limit (<)	Result
				1.258 MHz	1.5 MHz	Pass



3DH5, 8-DPSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				1.261 MHz	1.5 MHz	Pass



SPURIOUS CONDUCTED EMISSIONS

XMit 2019.06.11

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5183A	TIA	25-Apr-18	25-Apr-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	29-Mar-19	29-Mar-20
Attenuator	Fairview Microwave	SA4014-20	TKV	18-Jan-19	18-Jan-20
Block - DC	Fairview Microwave	SD3379	AMU	18-Jan-19	18-Jan-20
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	5-May-19	5-May-20

TEST DESCRIPTION

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 in a no-hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

SPURIOUS CONDUCTED EMISSIONS

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	Thor Radio Module AC WLAN and Bluetooth and BLE	Work Order:	ECHN0015
Serial Number:	Pre-production #1	Date:	24-Jul-19
Customer:	EchoNous, Inc.	Temperature:	22.1 °C
Attendees:	None	Humidity:	52.5% RH
Project:	None	Barometric Pres.:	1028 mbar
Tested by:	Brian Fahey and Jeff Alcoke — Power: 3.7 VDC	Job Site:	NC0A

TEST SPECIFICATIONS	Test Method
FCC 15.247:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: RF measurement cable, 20 dB attenuator, and DC Block = 21.4 dBm.

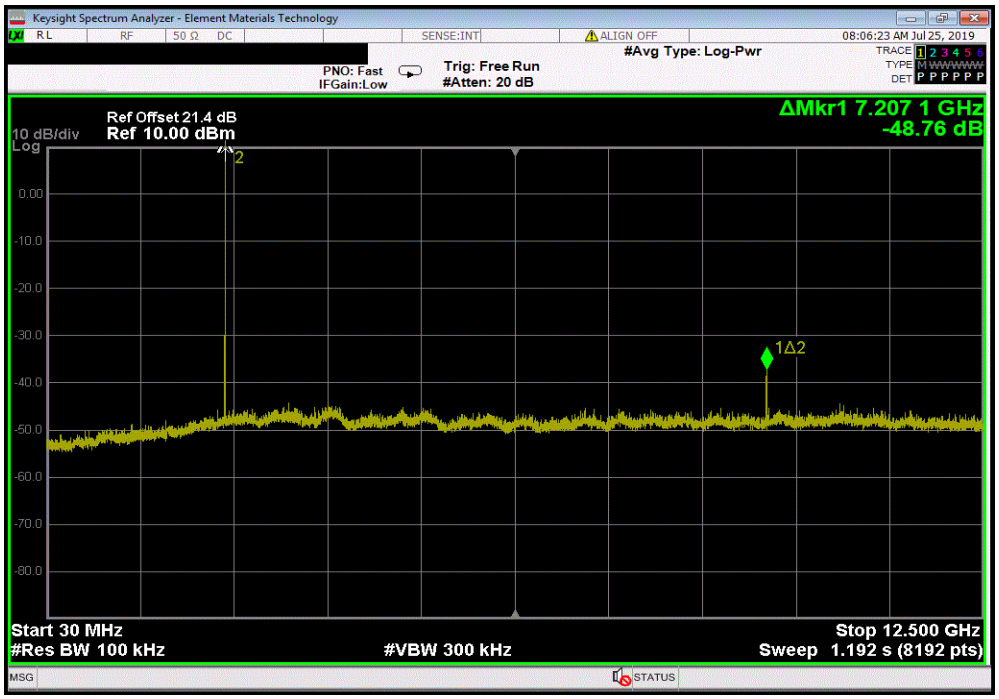
DEVIATIONS FROM TEST STANDARD

None

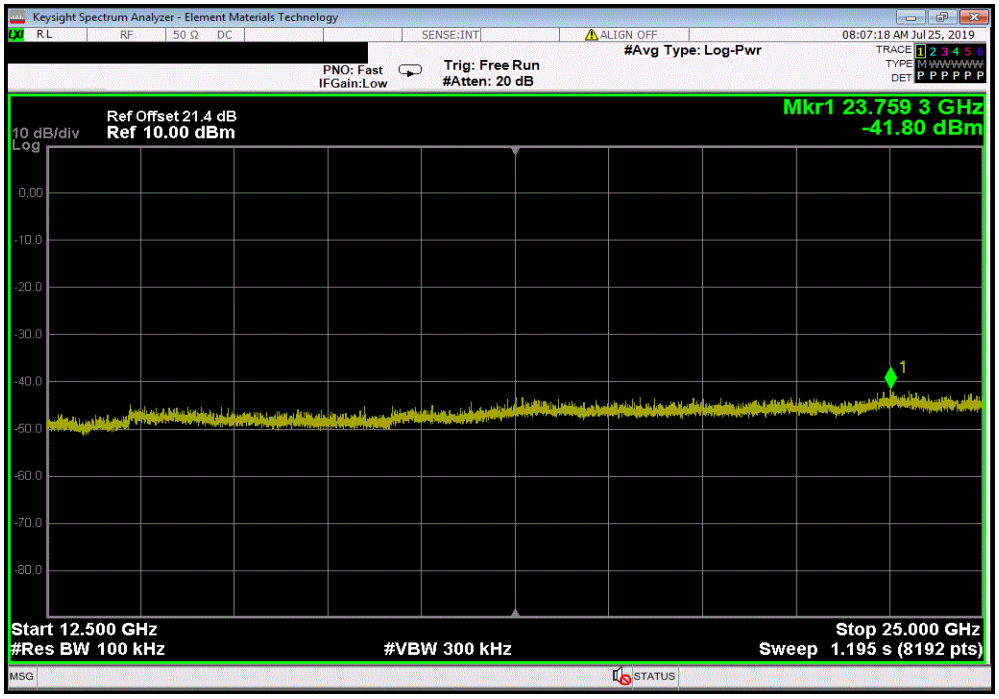
Configuration #	1	Signature

		Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
DH5, GFSK						
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	7207.05	-48.76	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23759.31	-53.09	-20	Pass
	Mid Channel, 2441 MHz	30 MHz - 12.5 GHz	7322.76	-51.62	-20	Pass
	Mid Channel, 2441 MHz	12.5 GHz - 25 GHz	24906.91	-53.02	-20	Pass
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	7441.5	-47.53	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23753.2	-54.34	-20	Pass
2DH5, pi/4-DQPSK						
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	7207.05	-52.53	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	24713.1	-51.59	-20	Pass
	Mid Channel, 2441 MHz	30 MHz - 12.5 GHz	1463.03	-51.41	-20	Pass
	Mid Channel, 2441 MHz	12.5 GHz - 25 GHz	24703.94	-49.3	-20	Pass
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	7441.5	-53.08	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23678.43	-52.06	-20	Pass
3DH5, 8-DPSK						
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	1396.04	-53.7	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23505.98	-51.51	-20	Pass
	Mid Channel, 2441 MHz	30 MHz - 12.5 GHz	1339.71	-51.03	-20	Pass
	Mid Channel, 2441 MHz	12.5 GHz - 25 GHz	24020.27	-48.41	-20	Pass
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	7439.98	-53.33	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	24093.52	-51.93	-20	Pass

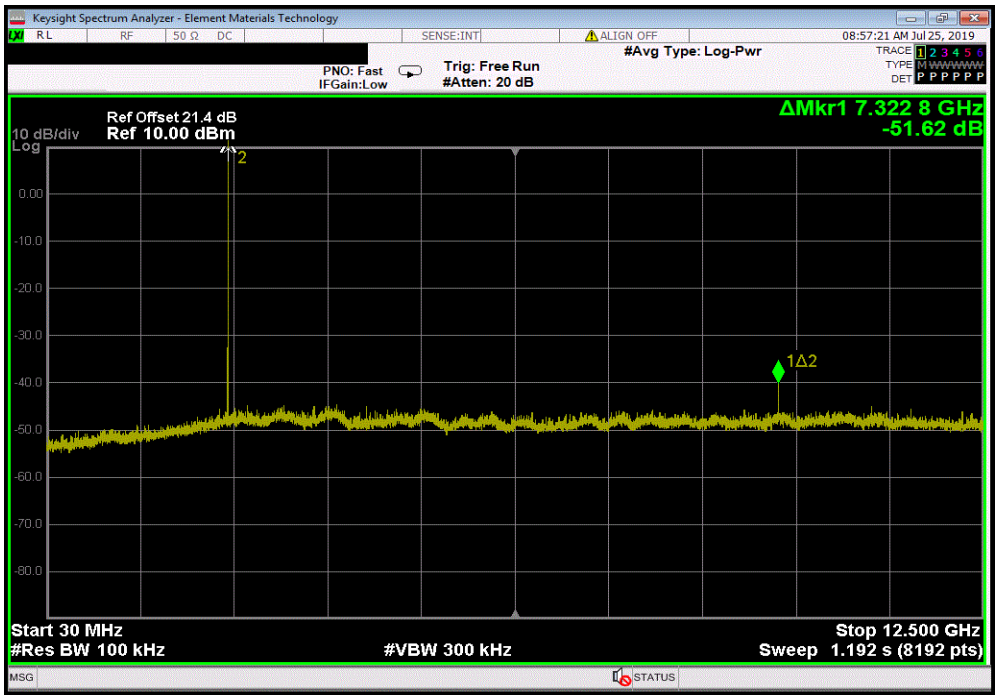
DH5, GFSK, Low Channel, 2402 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7207.05	-48.76	-20	Pass



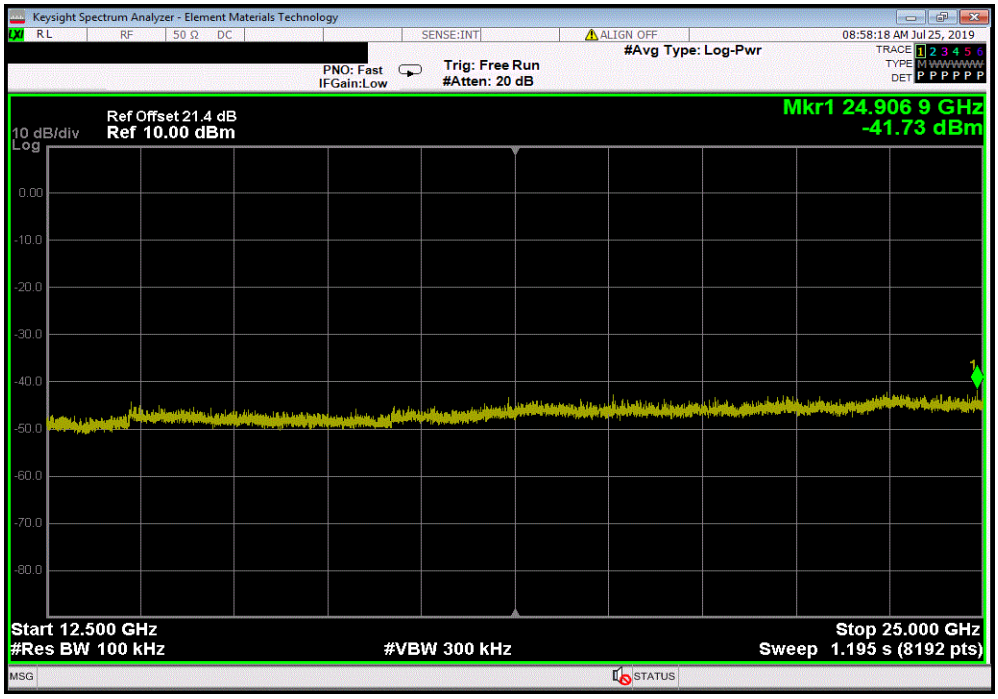
DH5, GFSK, Low Channel, 2402 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23759.31	-53.09	-20	Pass



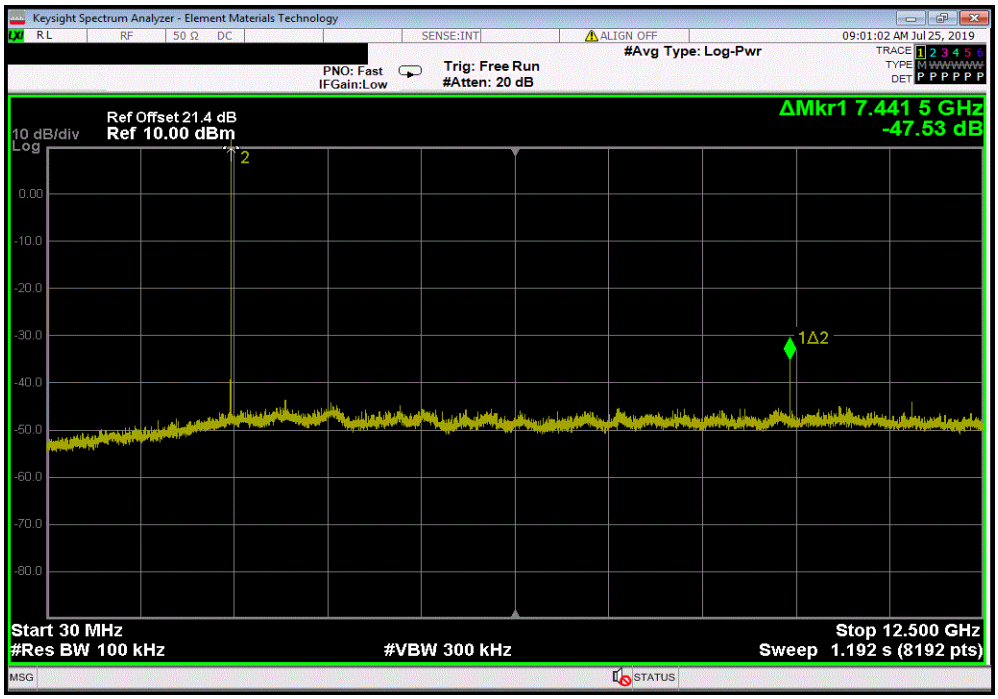
DH5, GFSK, Mid Channel, 2441 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7322.76	-51.62	-20	Pass



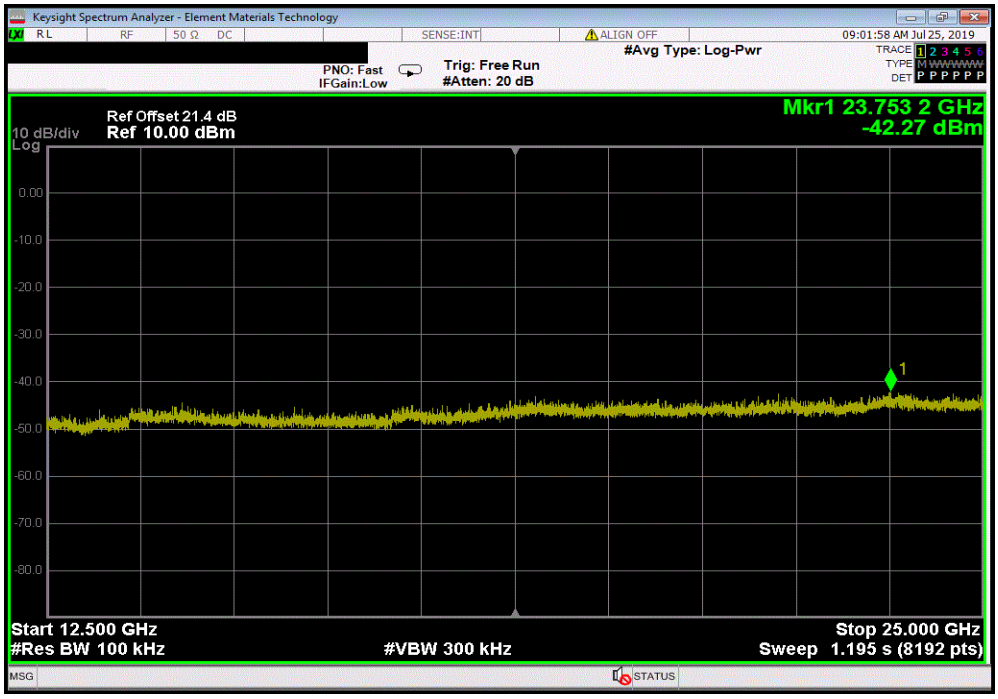
DH5, GFSK, Mid Channel, 2441 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24906.91	-53.02	-20	Pass



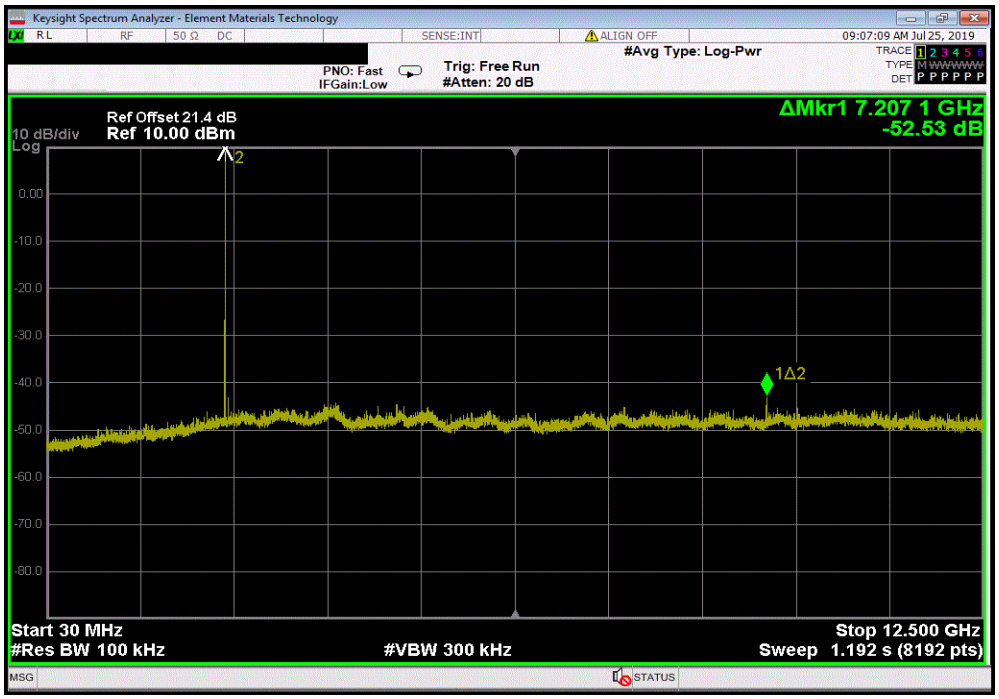
DH5, GFSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7441.5	-47.53	-20	Pass



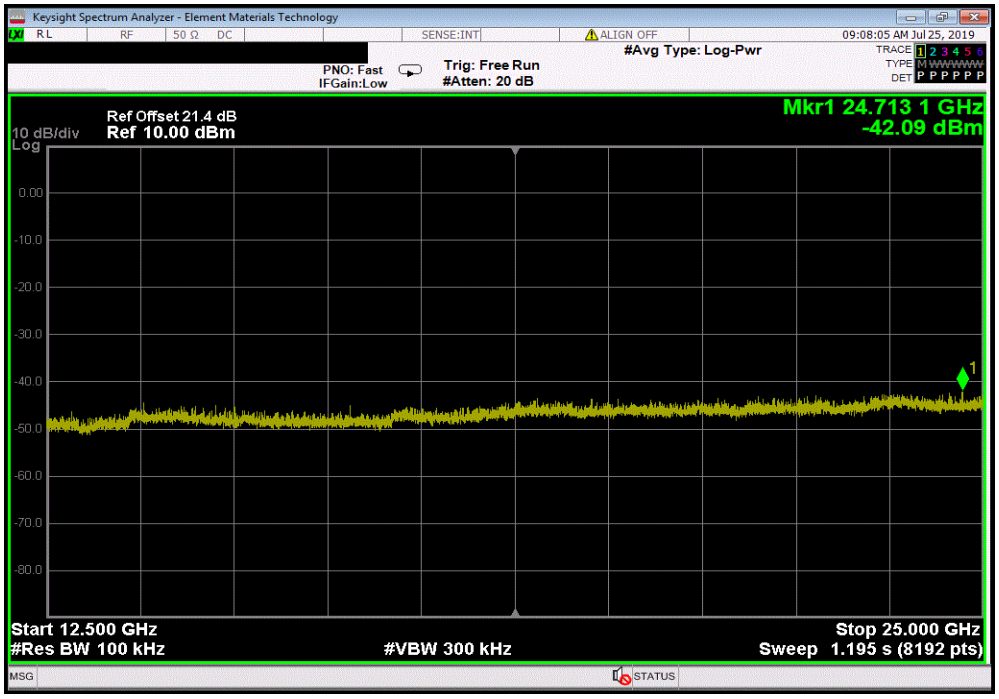
DH5, GFSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23753.2	-54.34	-20	Pass



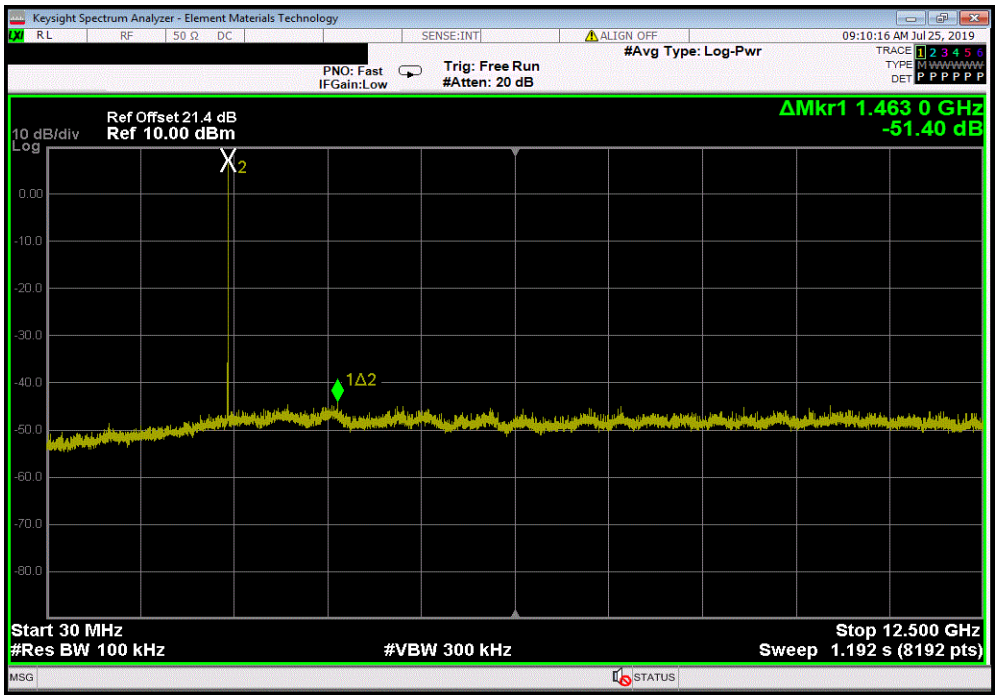
2DH5, pi/4-DQPSK, Low Channel, 2402 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7207.05	-52.53	-20	Pass



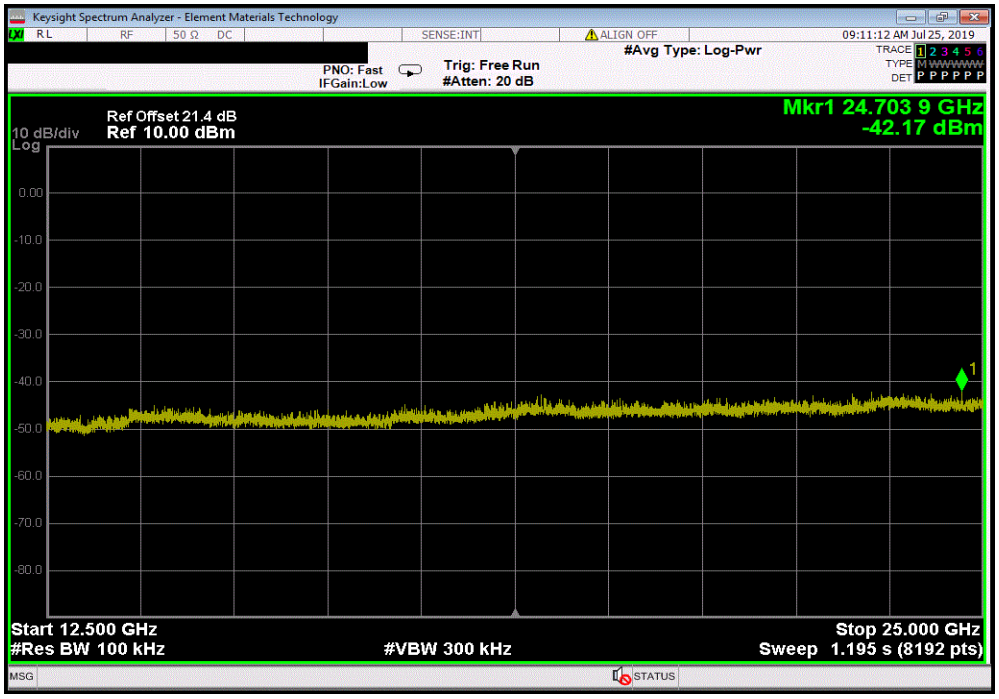
2DH5, pi/4-DQPSK, Low Channel, 2402 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24713.1	-51.59	-20	Pass



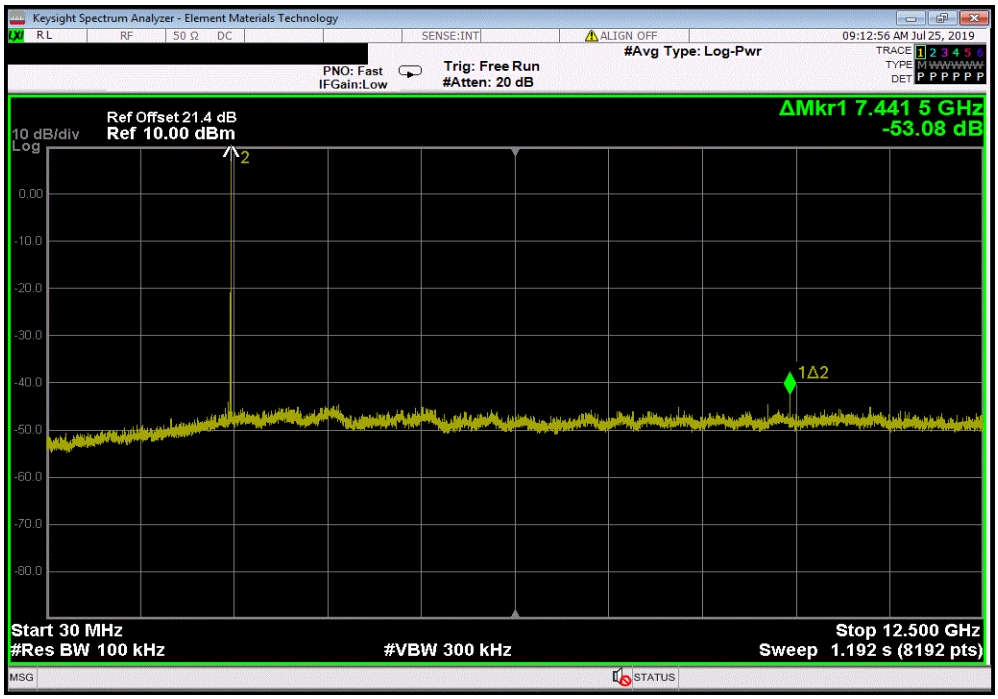
2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	1463.03	-51.41	-20	Pass



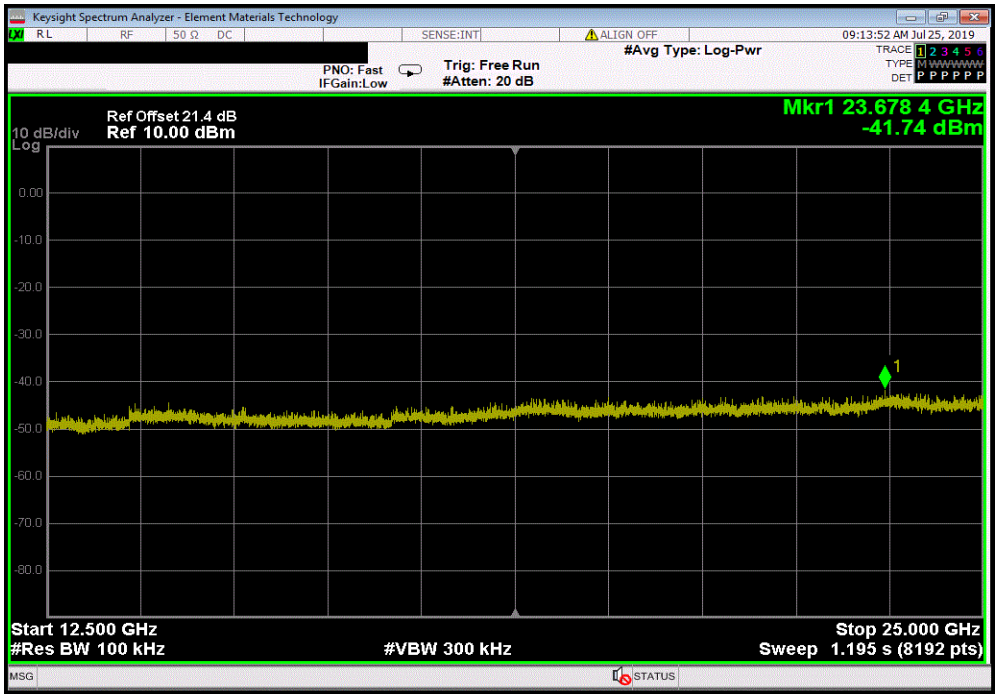
2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24703.94	-49.3	-20	Pass



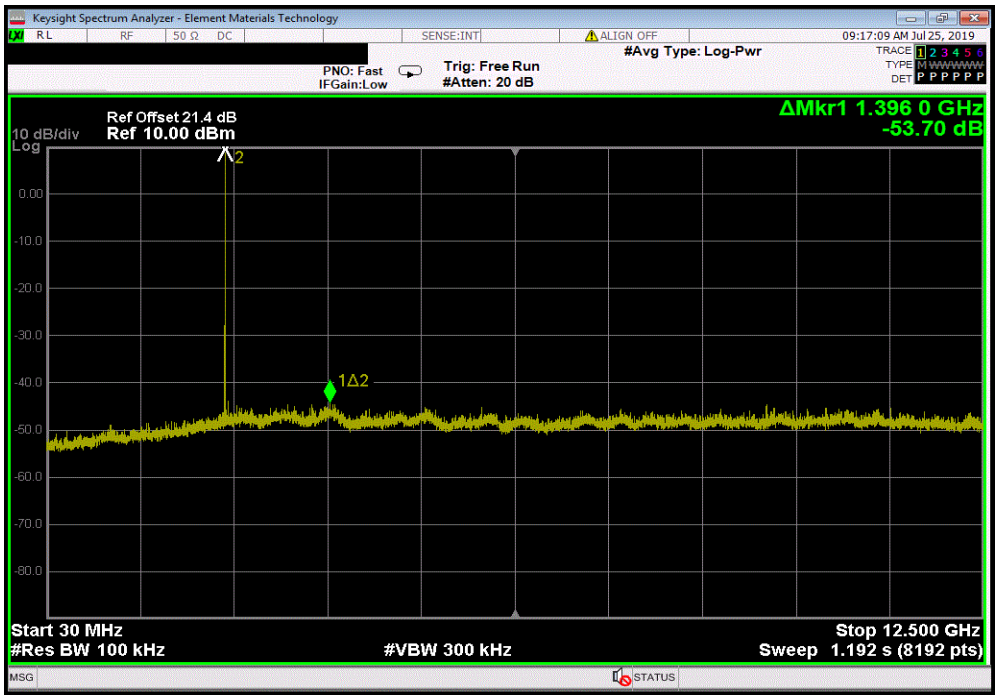
2DH5, pi/4-DQPSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7441.5	-53.08	-20	Pass



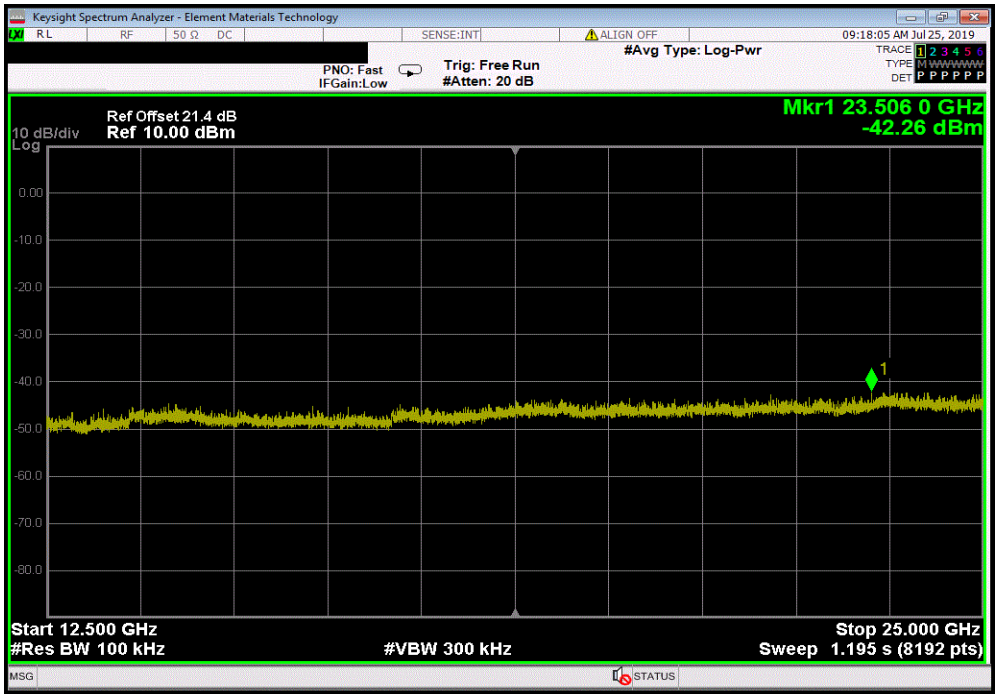
2DH5, pi/4-DQPSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23678.43	-52.06	-20	Pass



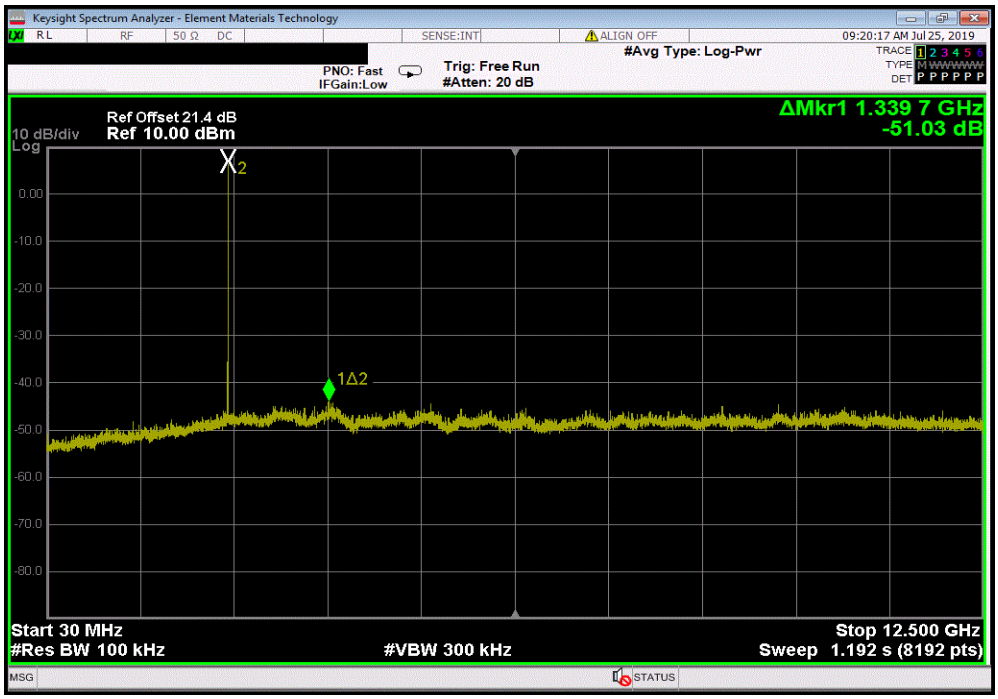
3DH5, 8-DPSK, Low Channel, 2402 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	1396.04	-53.7	-20	Pass



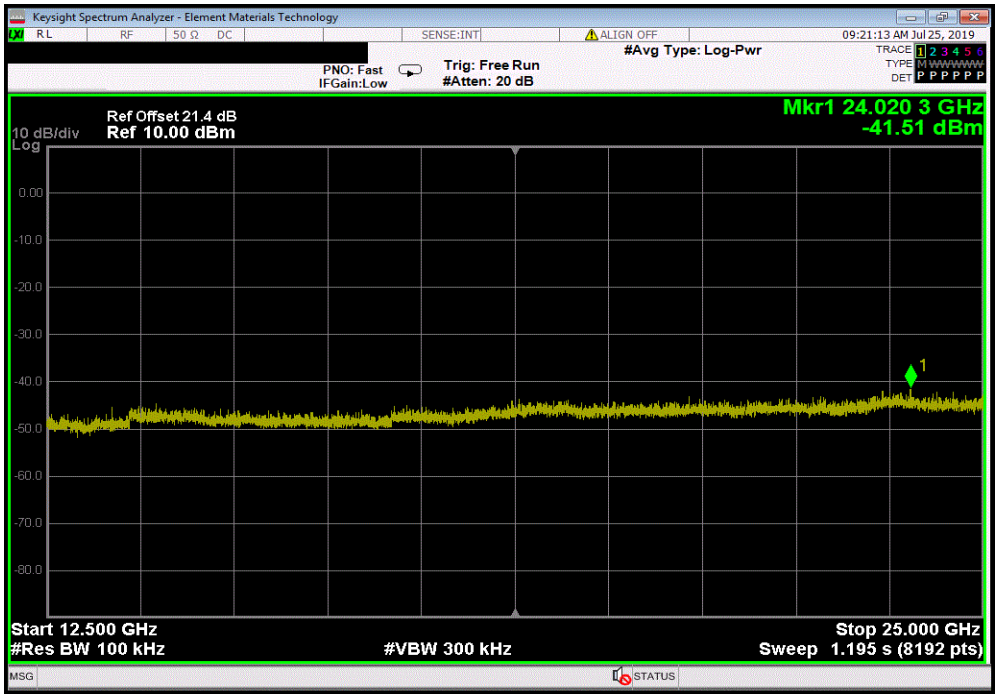
3DH5, 8-DPSK, Low Channel, 2402 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	23505.98	-51.51	-20	Pass



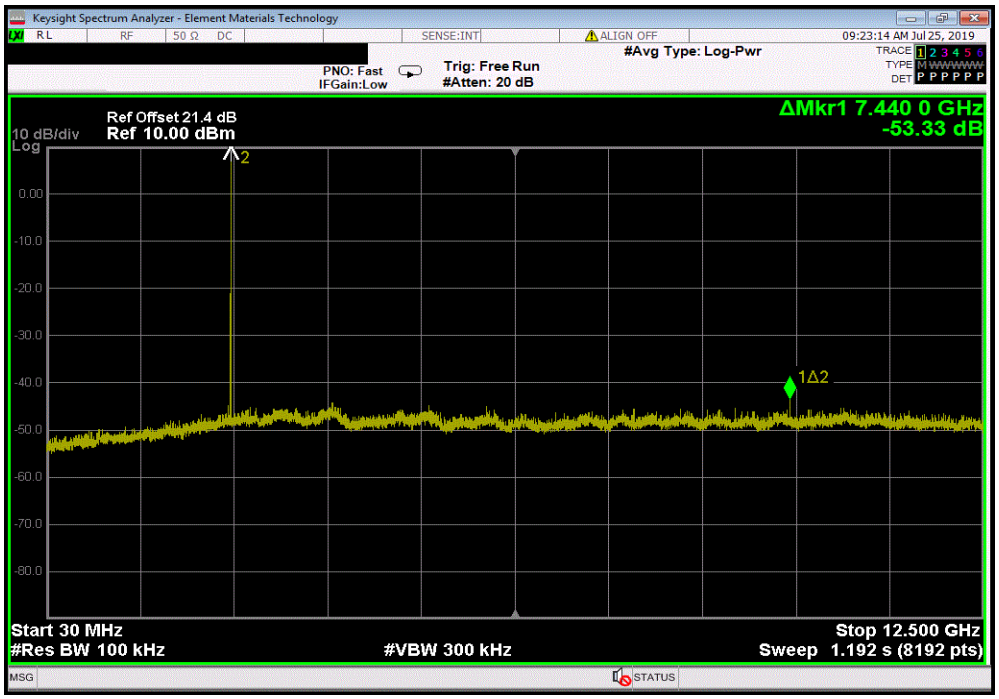
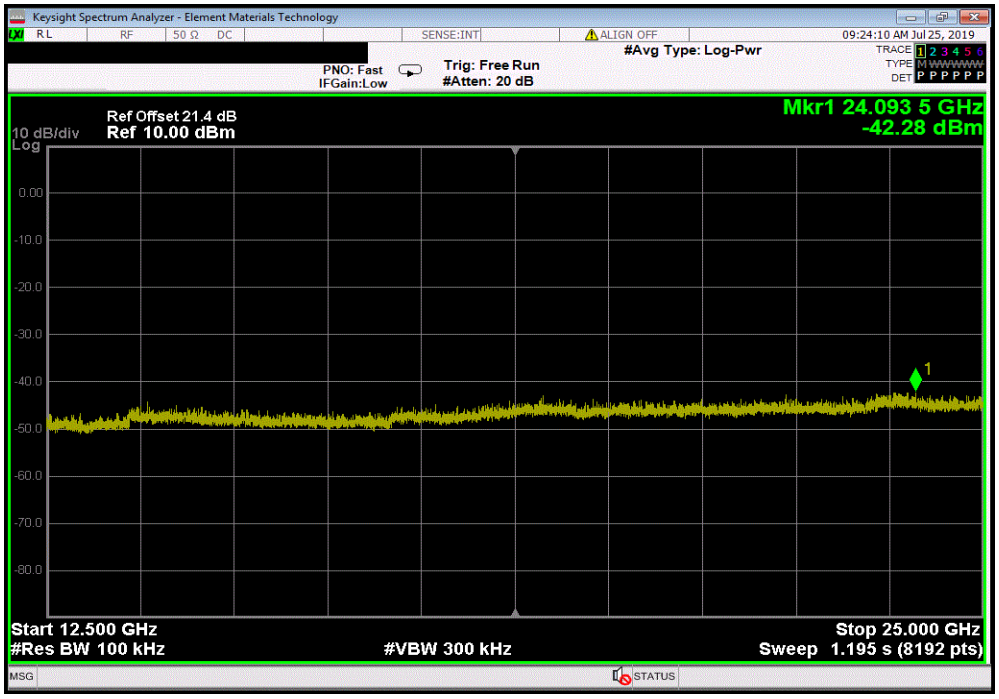
3DH5, 8-DPSK, Mid Channel, 2441 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	1339.71	-51.03	-20	Pass



3DH5, 8-DPSK, Mid Channel, 2441 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24020.27	-48.41	-20	Pass



3DH5, 8-DPSK, High Channel, 2480 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7439.98	-53.33	-20	Pass



3DH5, 8-DPSK, High Channel, 2480 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24093.52	-51.93	-20	Pass