

Appendix B: Test Results of DTSS

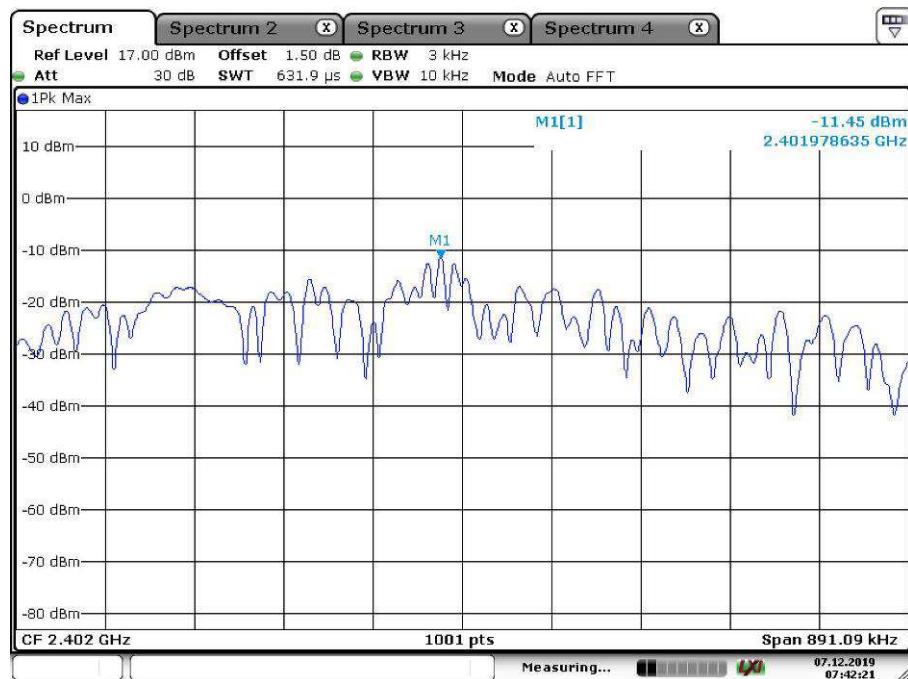
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Appendix B.1: Test Results of Conducted Power Spectral Density

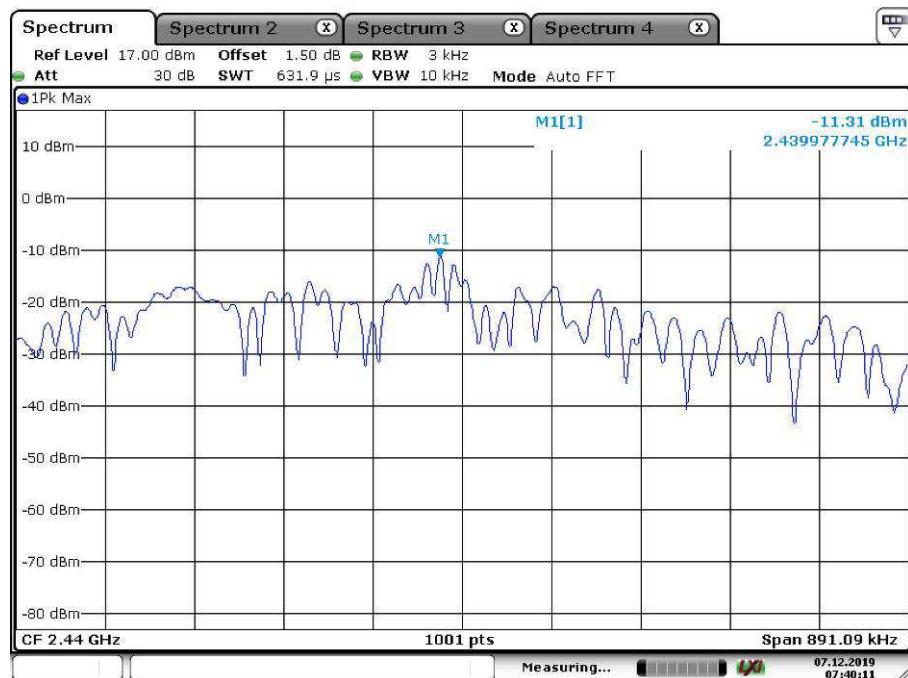
DTSS#1 (BLE)

Low Channel



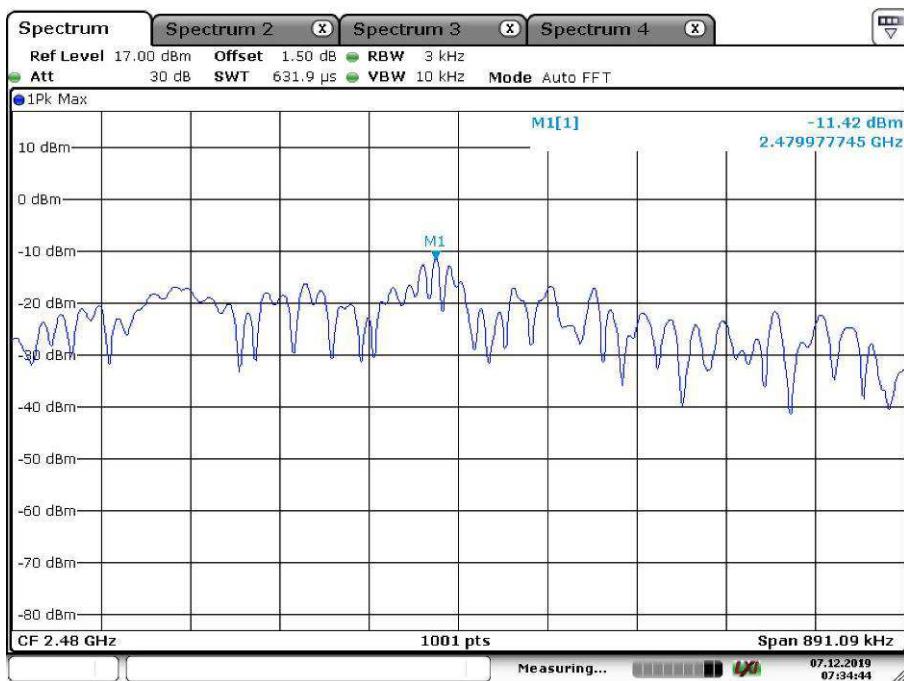
Date: 7.DEC.2019 07:42:22

Middle Channel



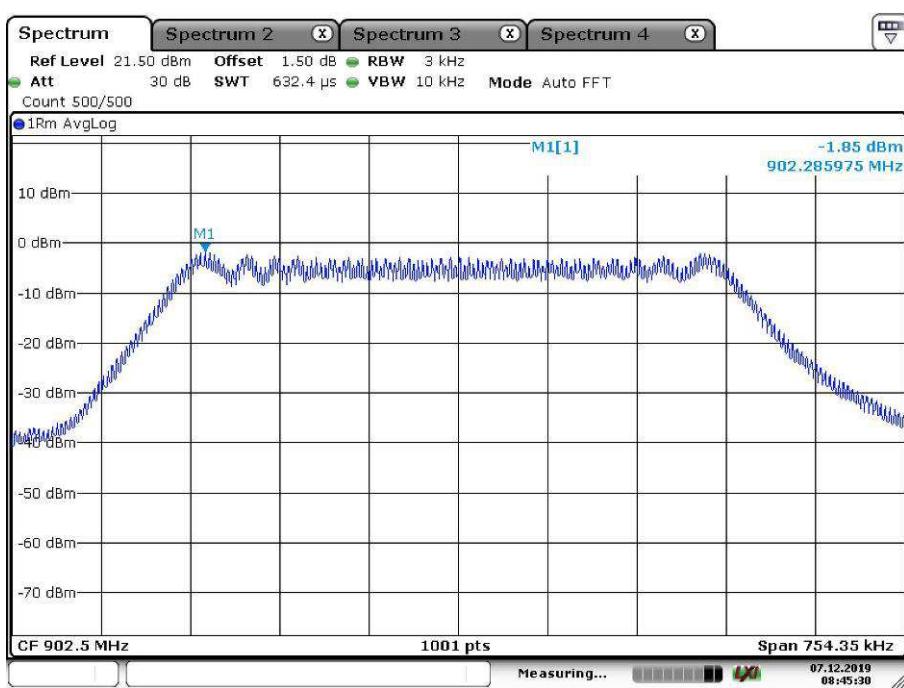
Date: 7.DEC.2019 07:40:11

High Channel

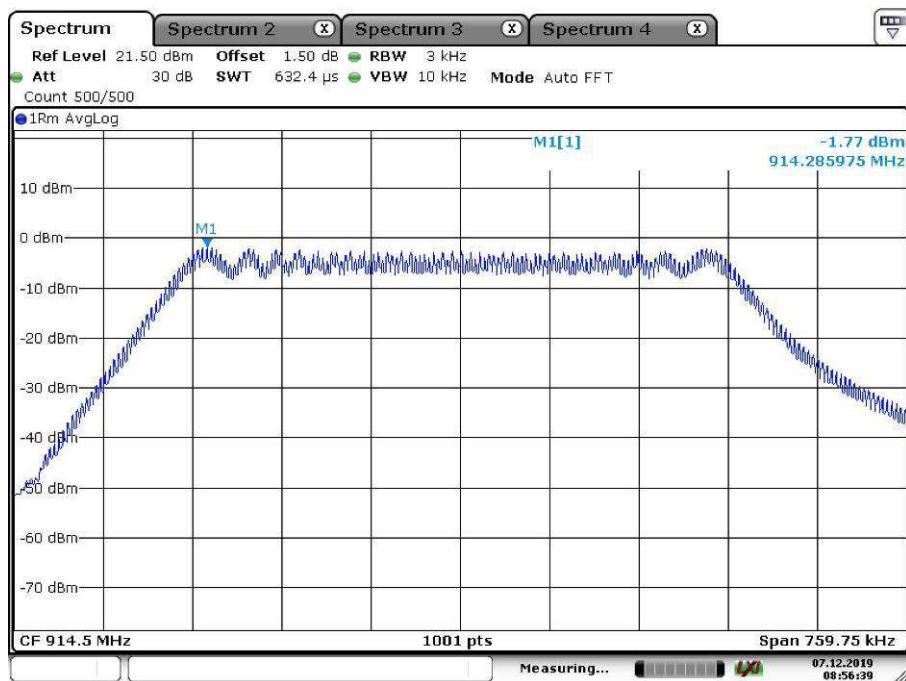


DTSS#2 (Bandwidth: 500KHz)

Low Channel

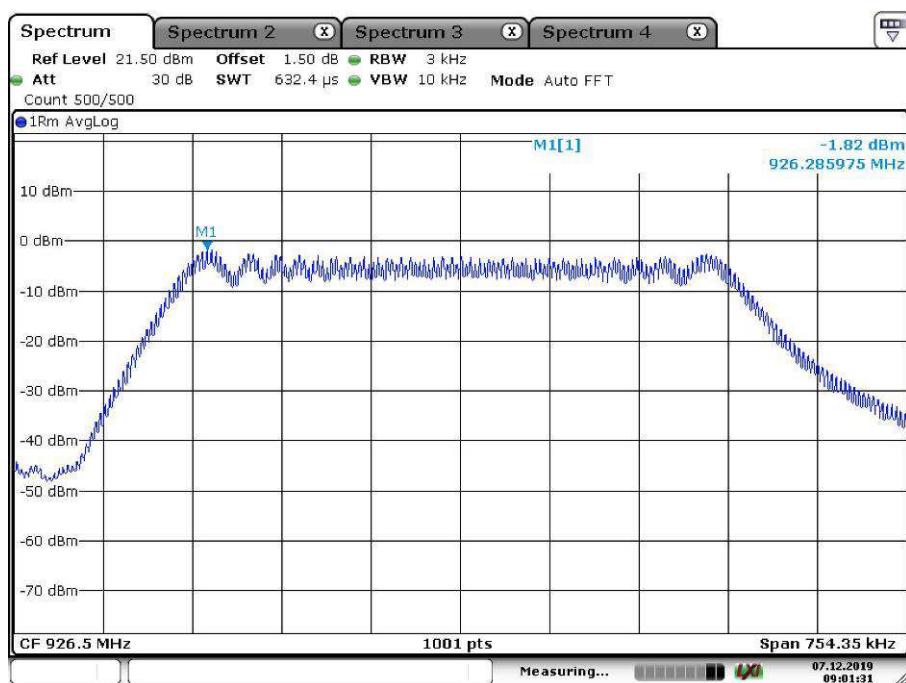


Middle Channel



Date: 7.DEC.2019 08:56:39

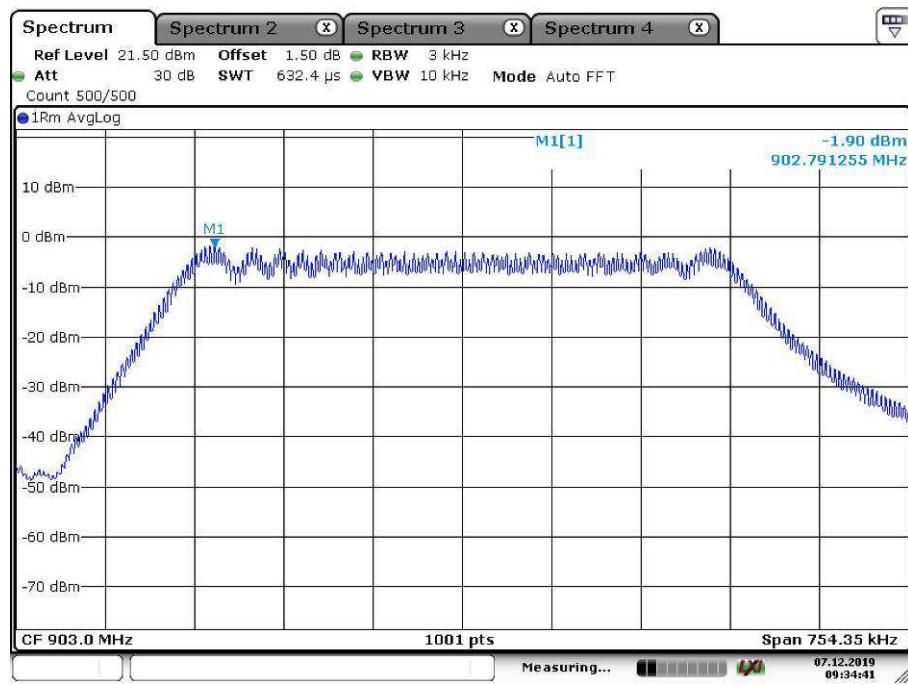
High Channel



Date: 7.DEC.2019 09:01:31

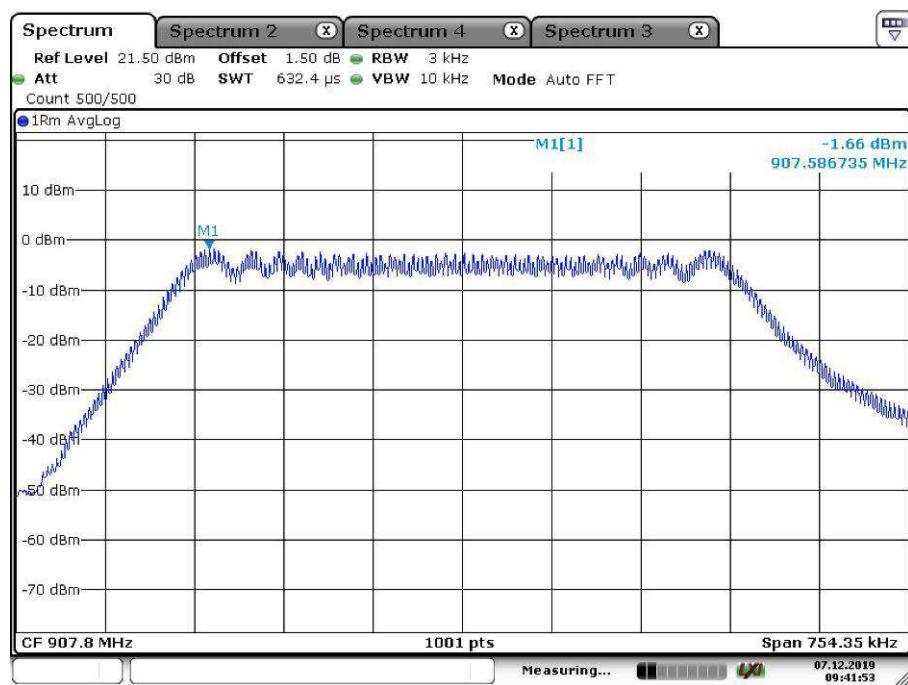
DTSs#3 (Bandwidth: 500KHz)

Low Channel



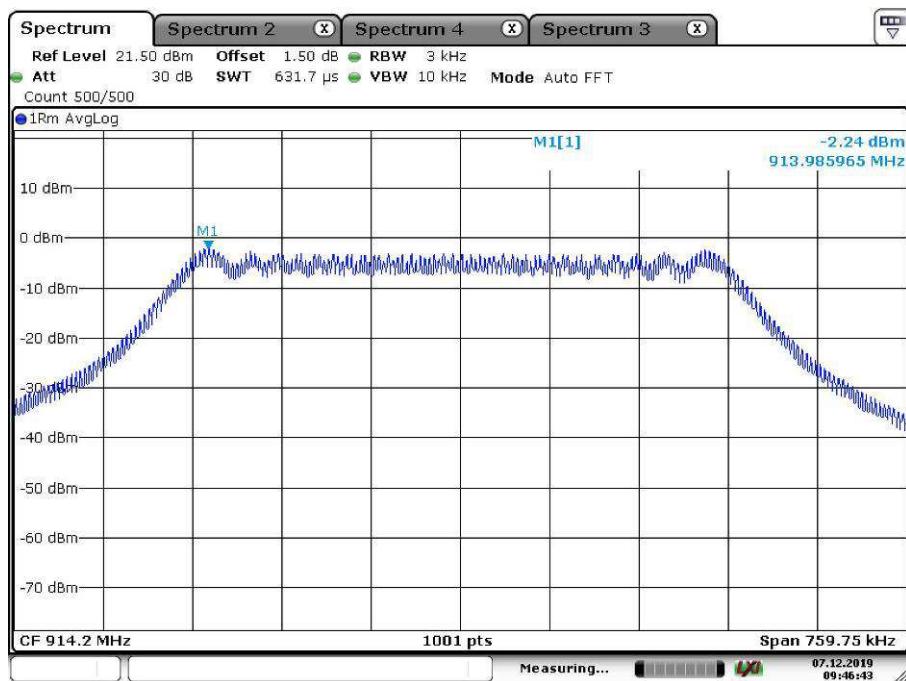
Date: 7.DEC.2019 09:34:41

Middle Channel



Date: 7.DEC.2019 09:41:53

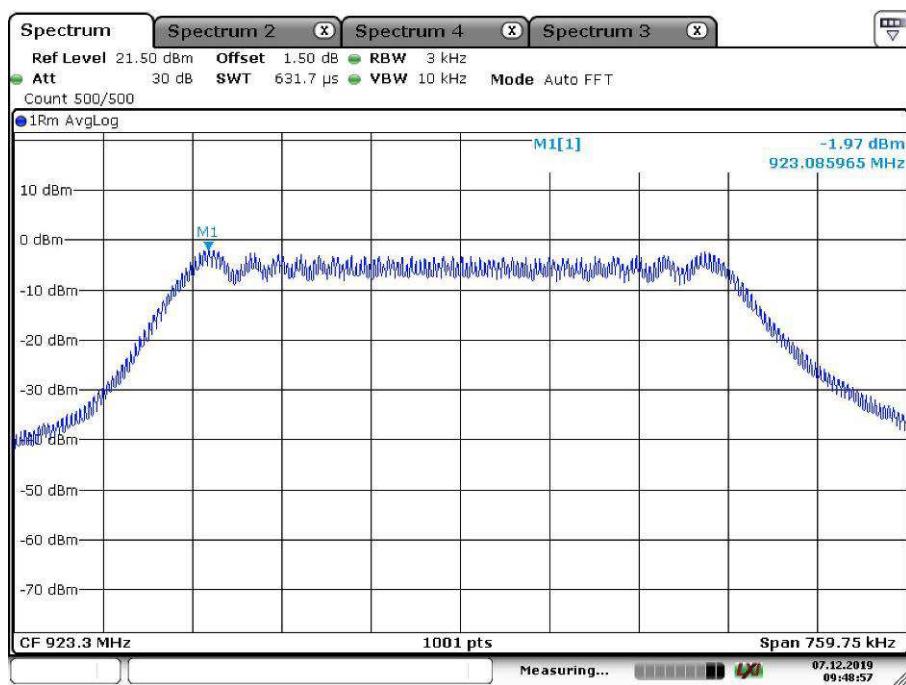
High Channel



Date: 7.DEC.2019 09:46:43

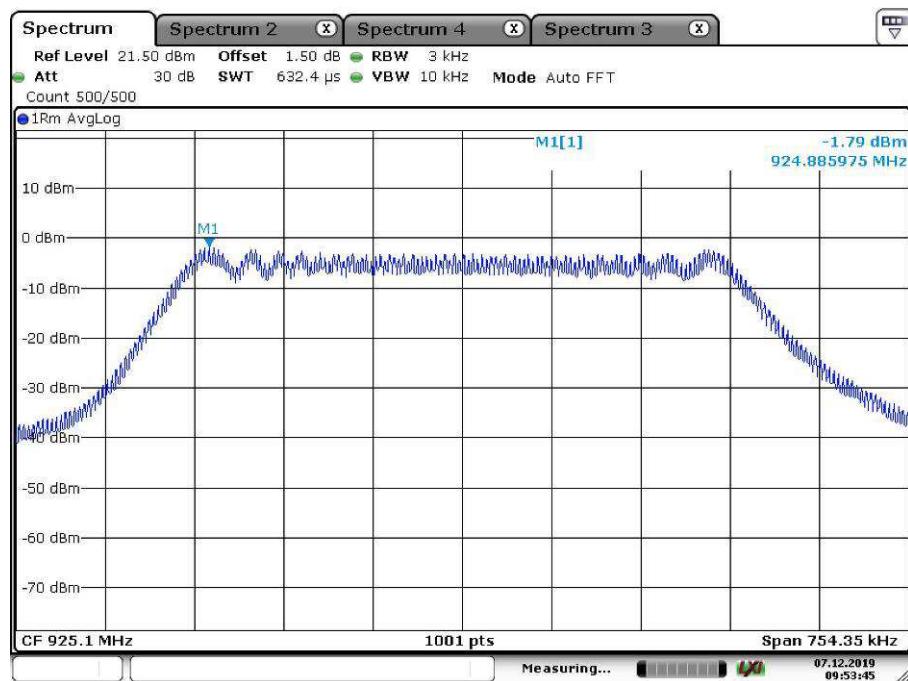
DTSS#4 (Bandwidth: 500KHz)

Low Channel



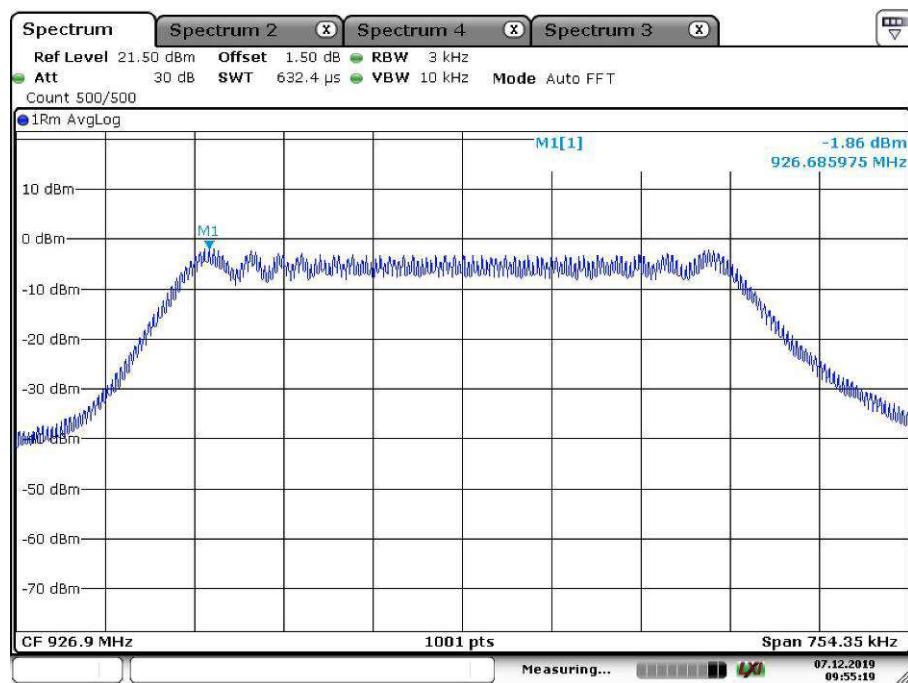
Date: 7.DEC.2019 09:48:57

Middle Channel



Date: 7.DEC.2019 09:53:45

High Channel

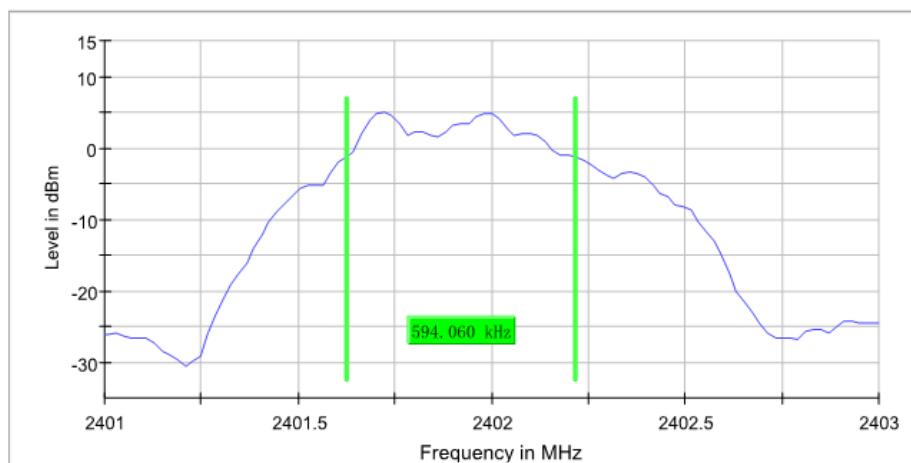


Date: 7.DEC.2019 09:55:19

Appendix B.2: Test Results of 6dB Bandwidth

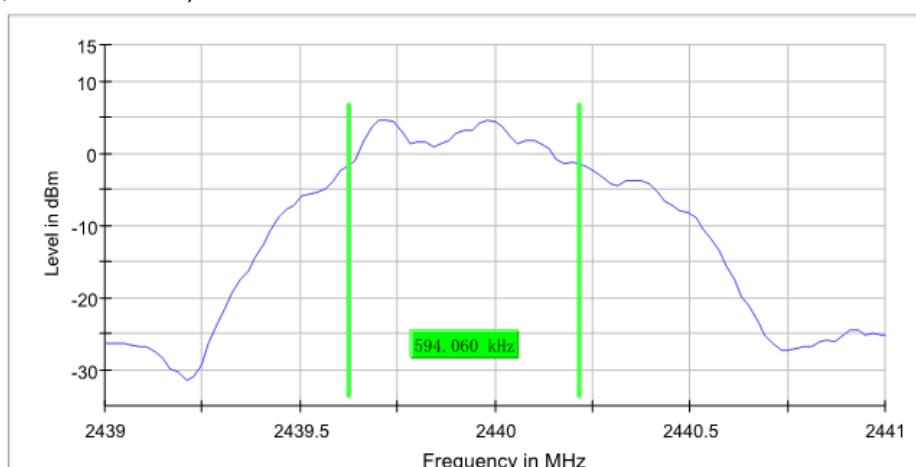
DTSS#1 (BLE)

Low Channel
(RBW=100KHz, VBW=300KHz)



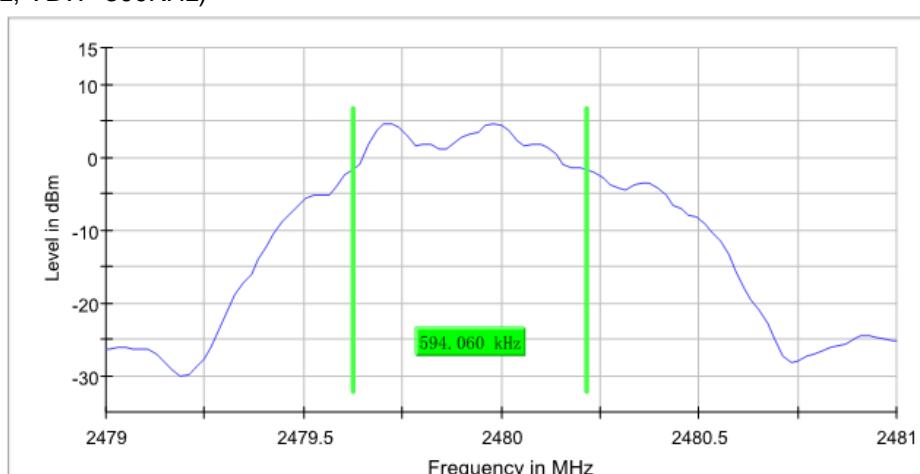
Middle Channel

(RBW=100KHz, VBW=300KHz)



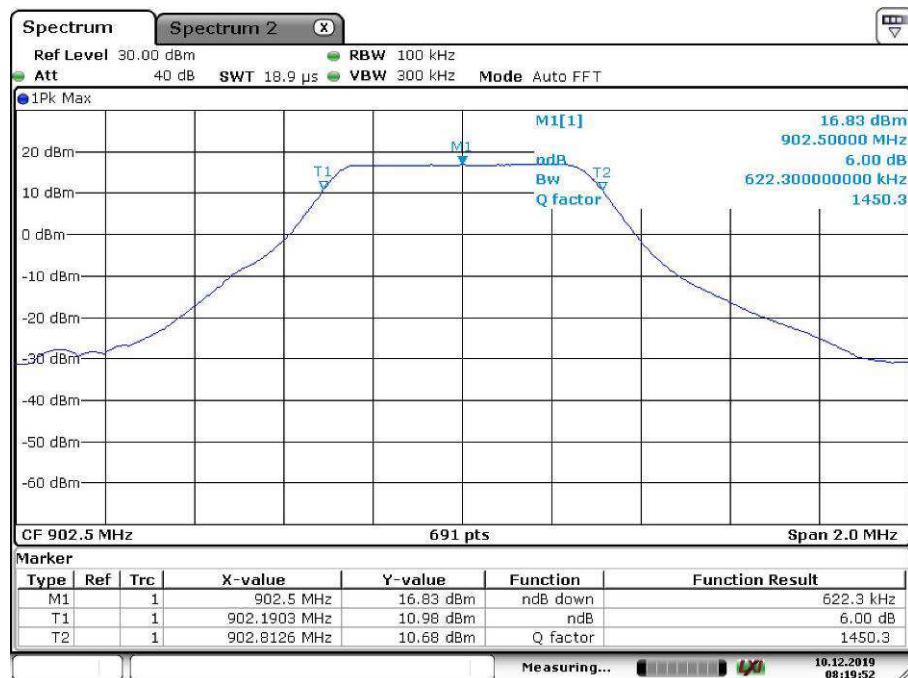
High Channel

(RBW=100KHz, VBW=300KHz)

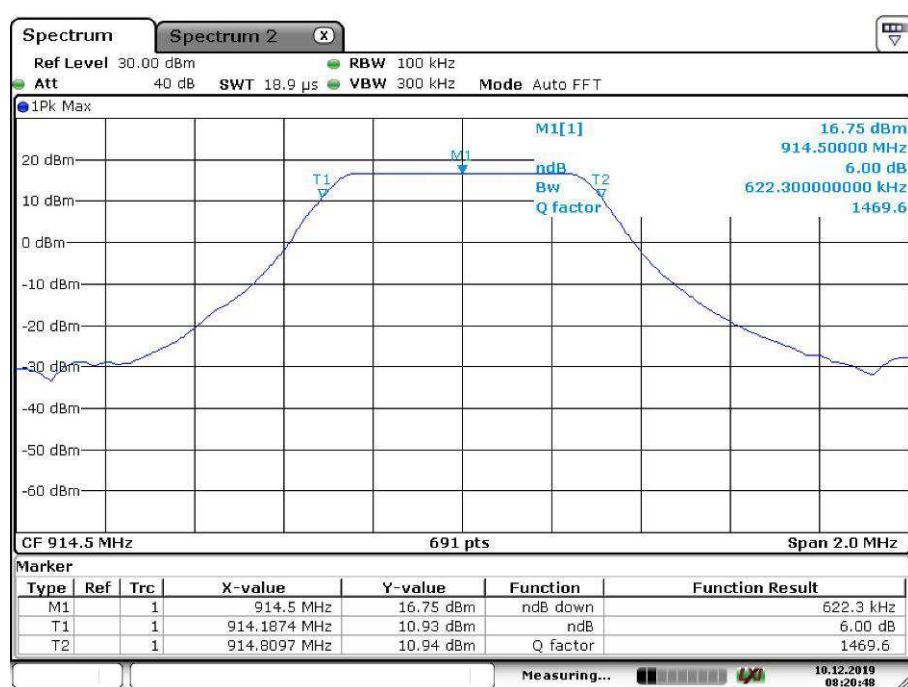


DTSs#2 (Bandwidth: 500KHz)

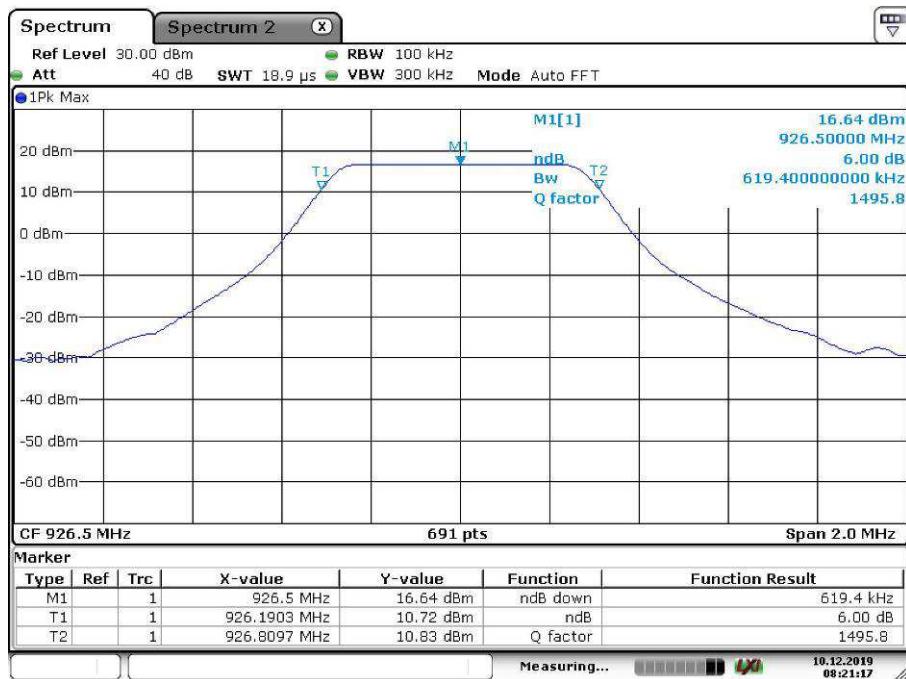
Low Channel



Middle Channel

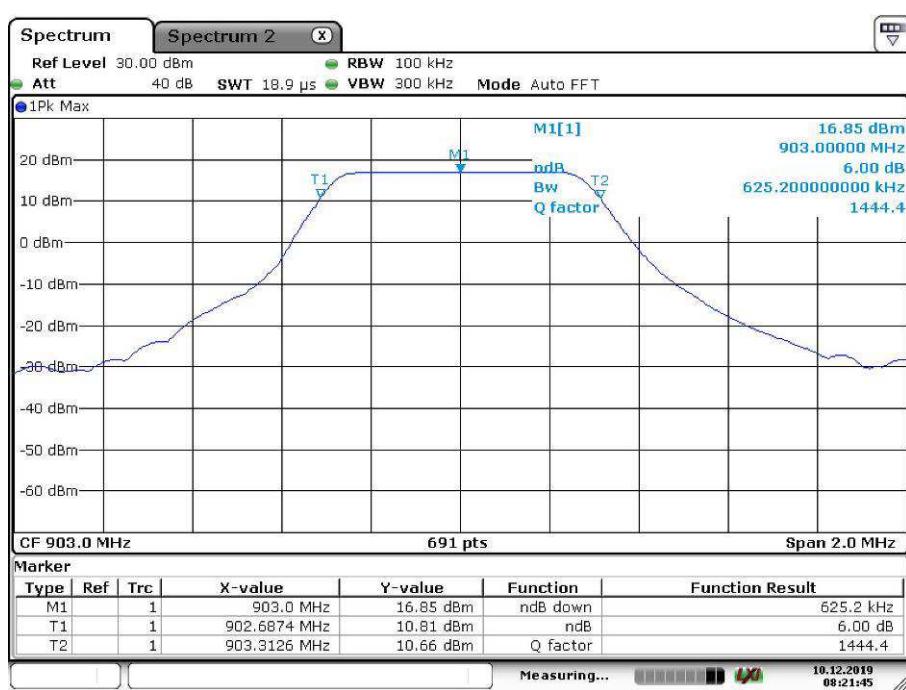


High Channel

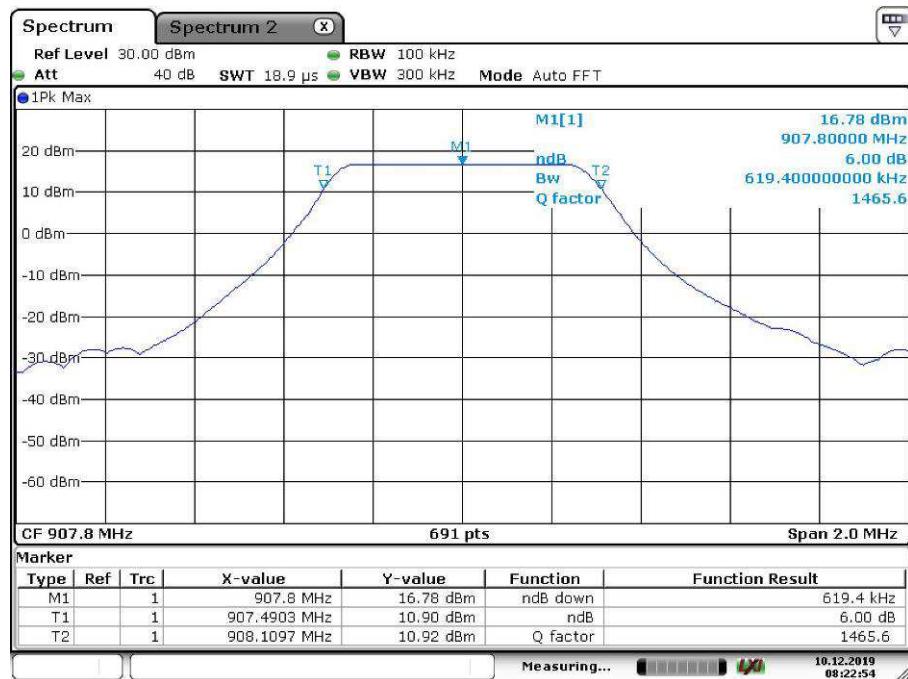


DTSS#3 (Bandwidth: 500KHz)

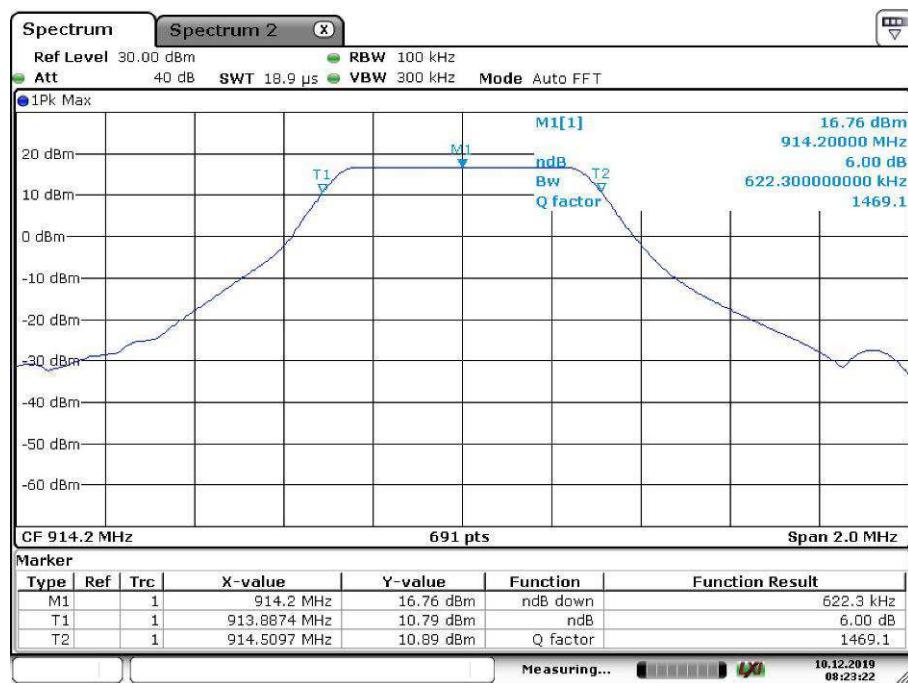
Low Channel



Middle Channel

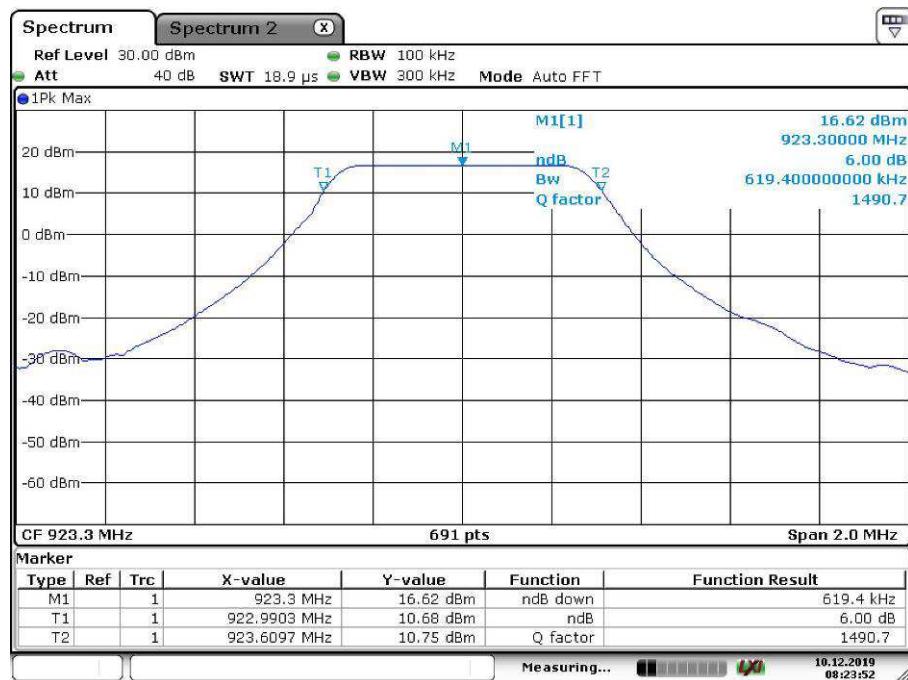


High Channel



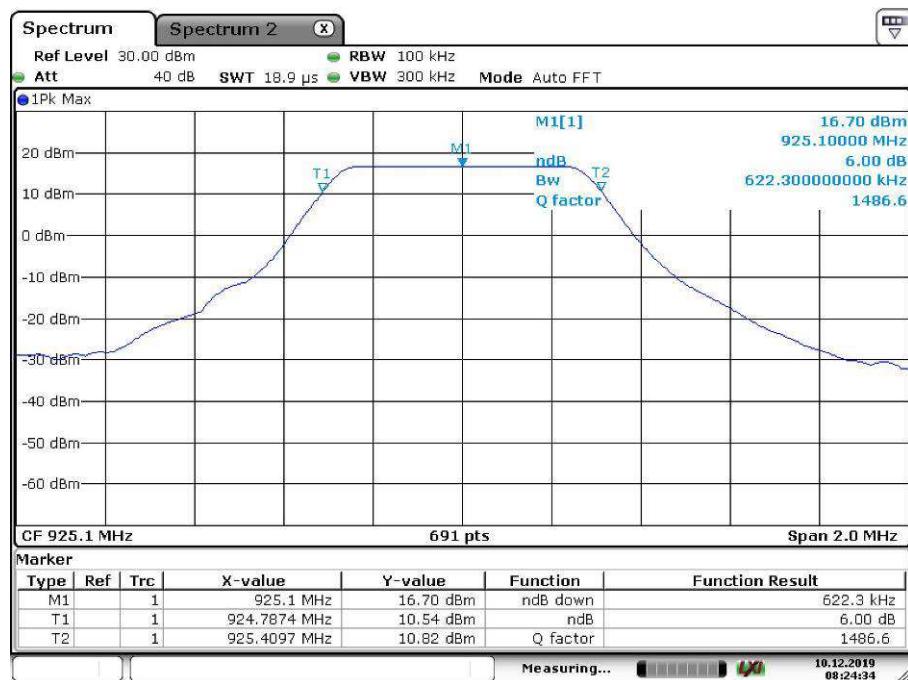
DTSs#4 (Bandwidth: 500KHz)

Low Channel



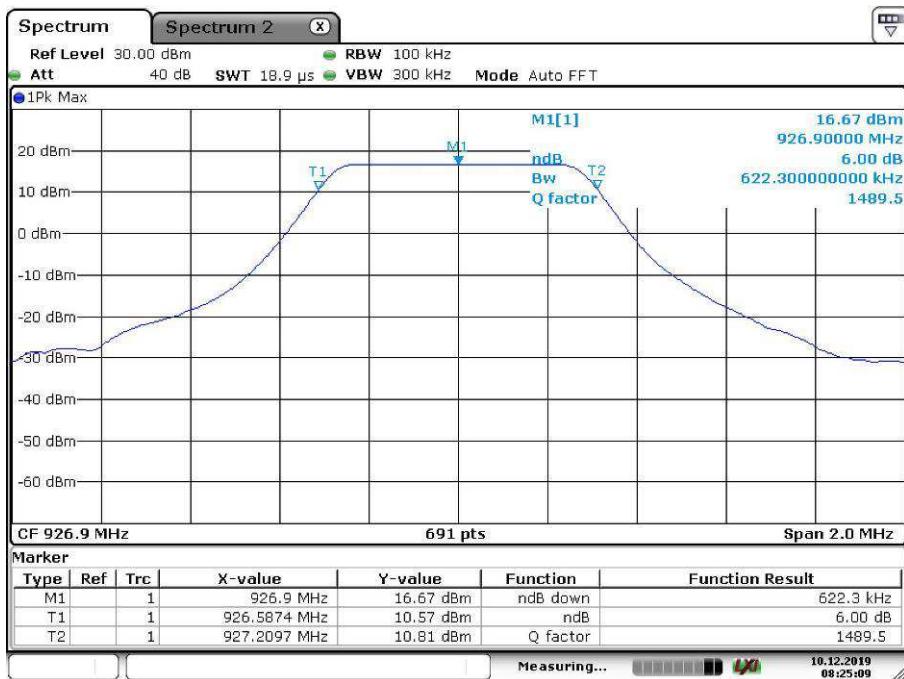
Date: 10.DEC.2019 08:23:53

Middle Channel



Date: 10.DEC.2019 08:24:34

High Channel



Appendix B.3: Test Results of 99% Bandwidth

DTSS#1 (BLE)

Low Channel



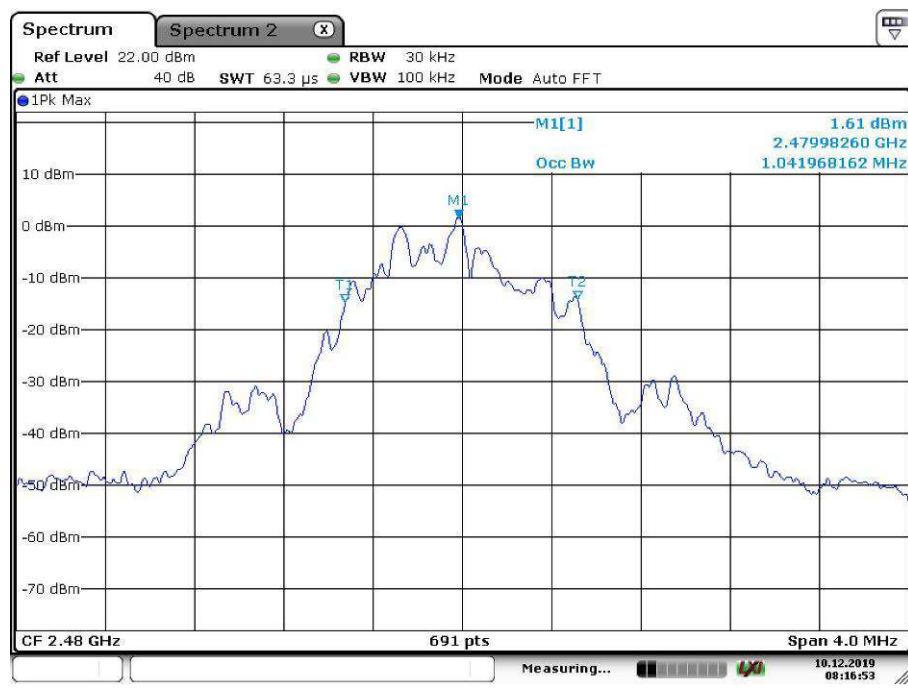
Date: 10.DEC.2019 08:15:16

Middle Channel



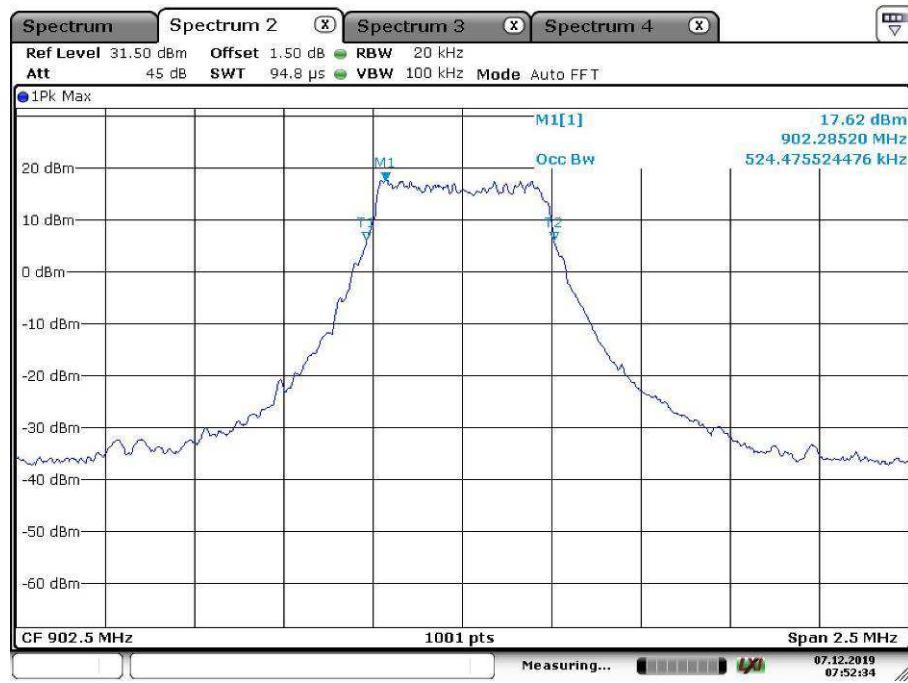
Date: 10.DEC.2019 08:16:16

High Channel



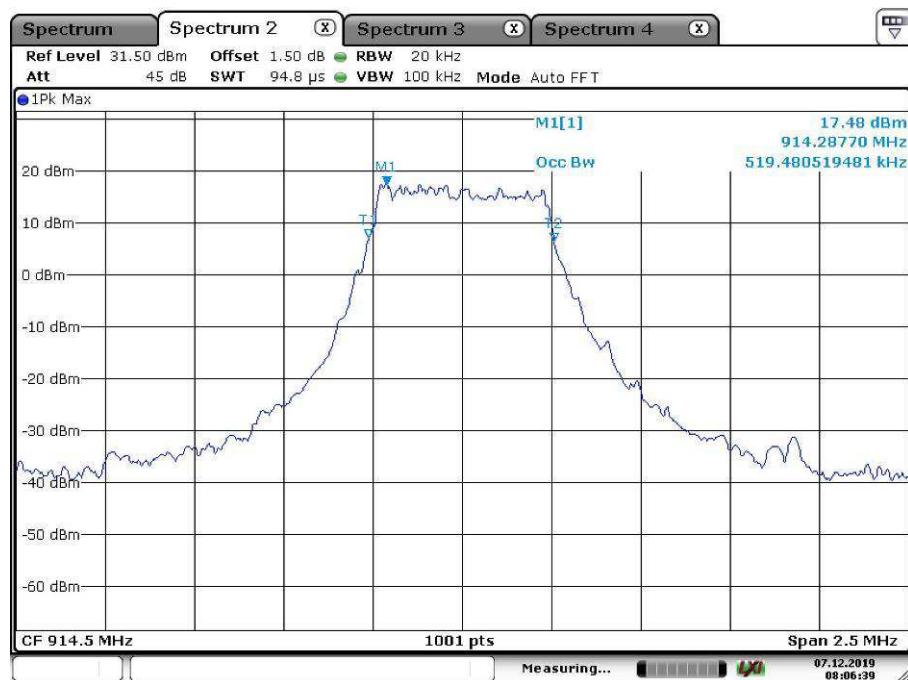
DTSs#2 (Bandwidth: 500KHz)

Low Channel



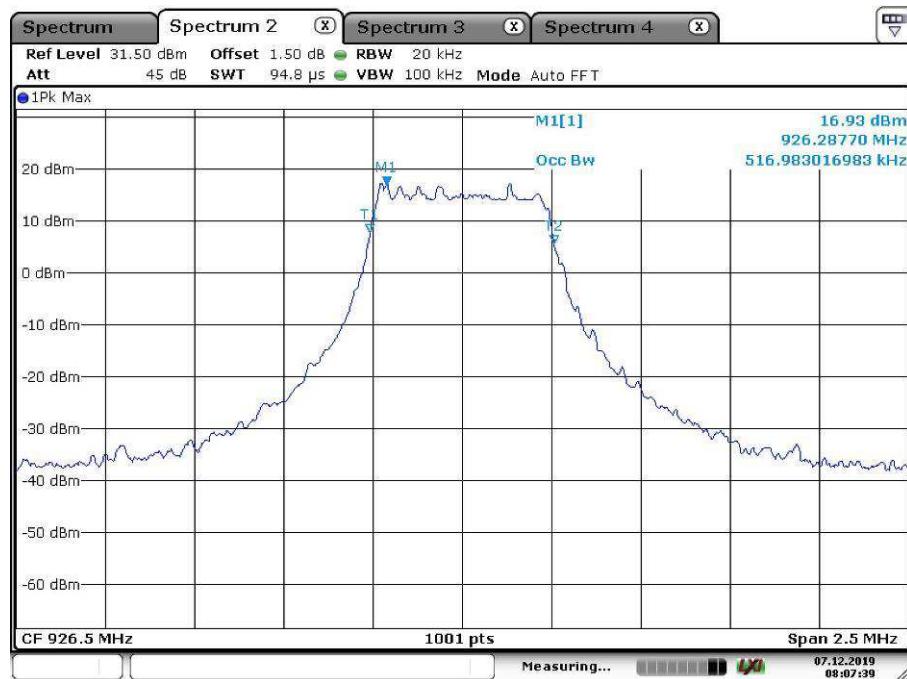
Date: 7.DEC.2019 07:52:35

Middle Channel



Date: 7.DEC.2019 08:06:39

High Channel



Date: 7.DEC.2019 08:07:39

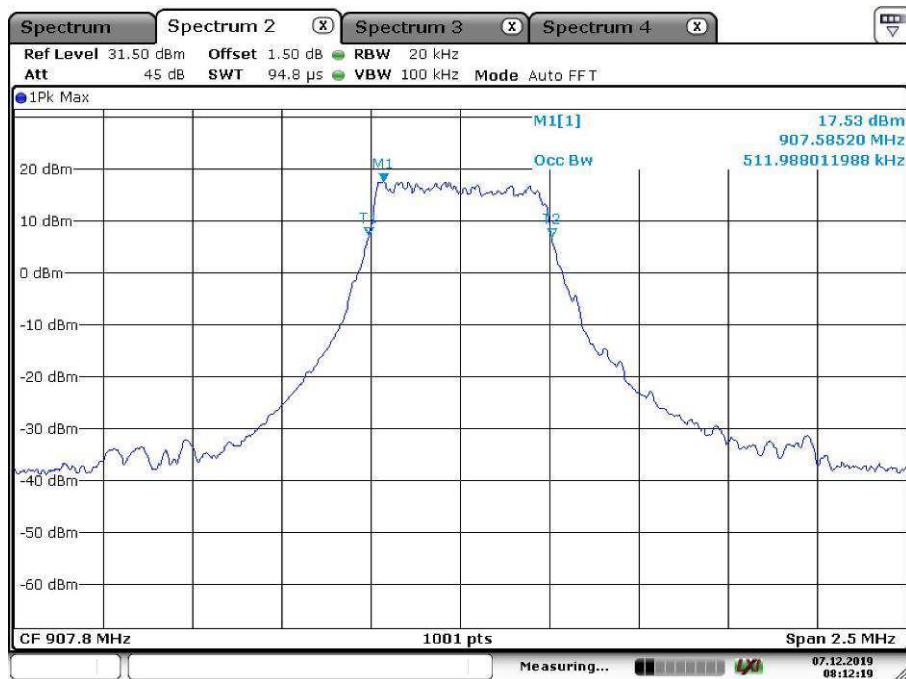
DTSs#3 (Bandwidth: 500KHz)

Low Channel



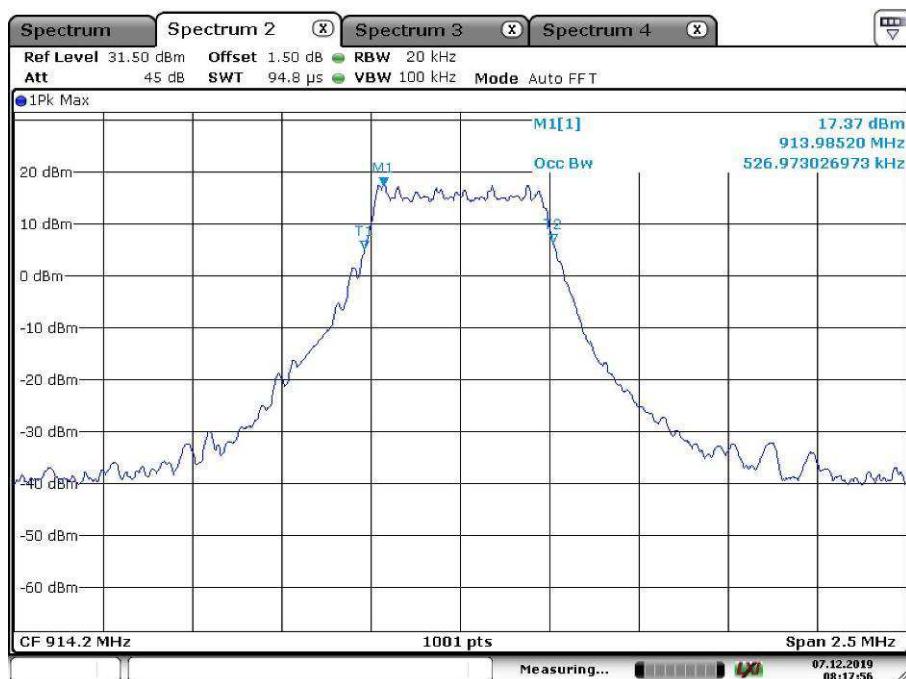
Date: 7.DEC.2019 08:11:01

Middle Channel



Date: 7.DEC.2019 08:12:19

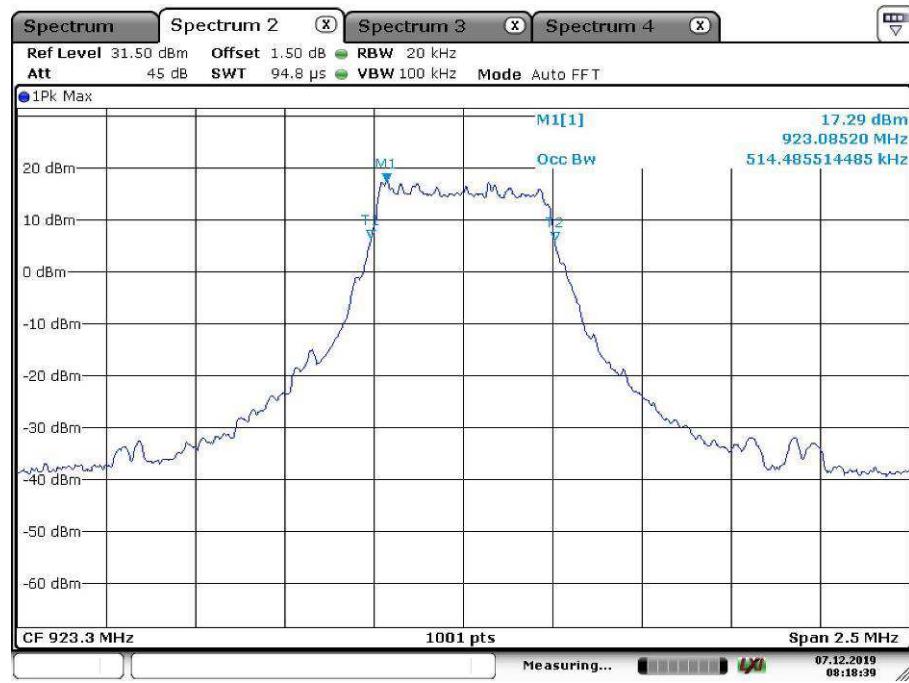
High Channel



Date: 7.DEC.2019 08:17:56

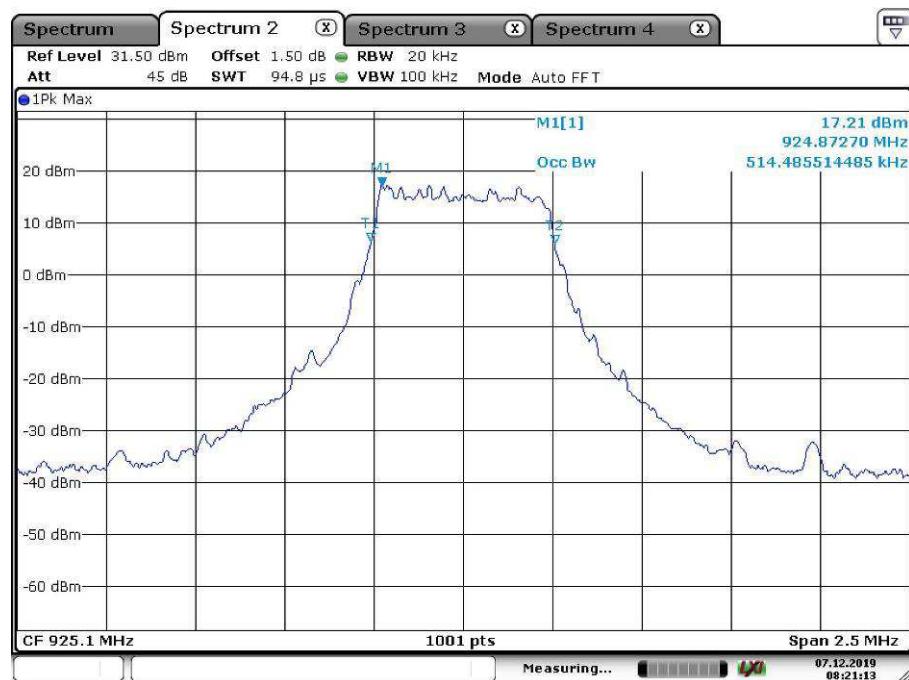
DTSs#4 (Bandwidth: 500KHz)

Low Channel



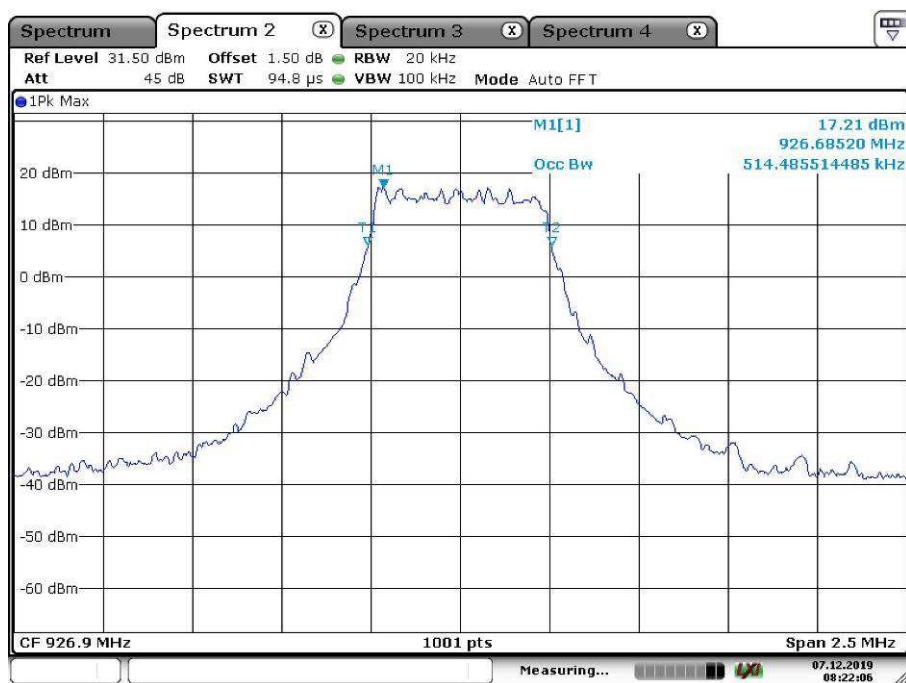
Date: 7.DEC.2019 08:18:39

Middle Channel



Date: 7.DEC.2019 08:21:13

High Channel

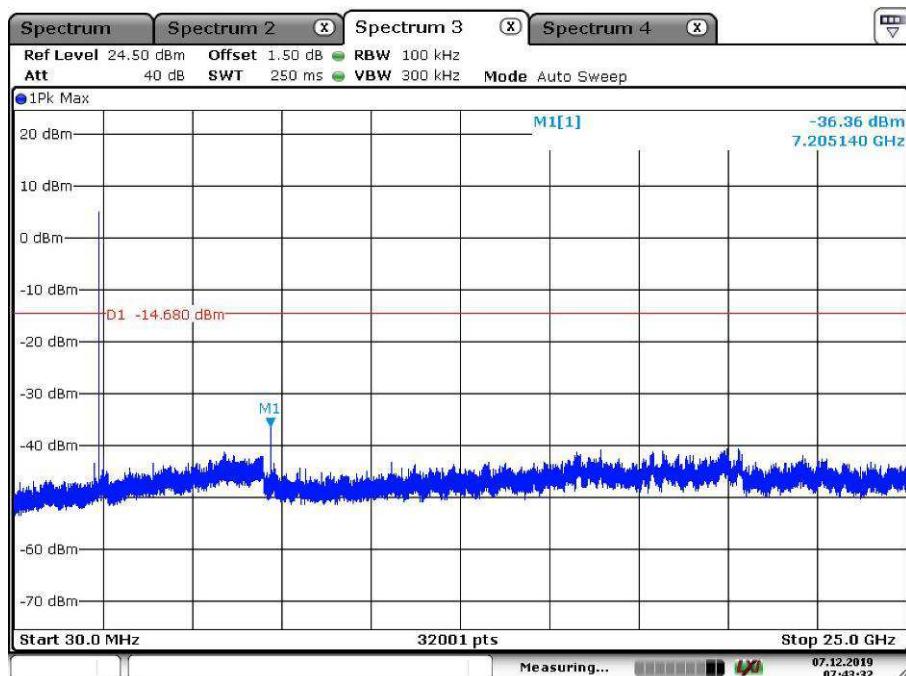


Date: 7.DEC.2019 08:22:07

Appendix B.4: Test Results of Conducted Spurious Emissions

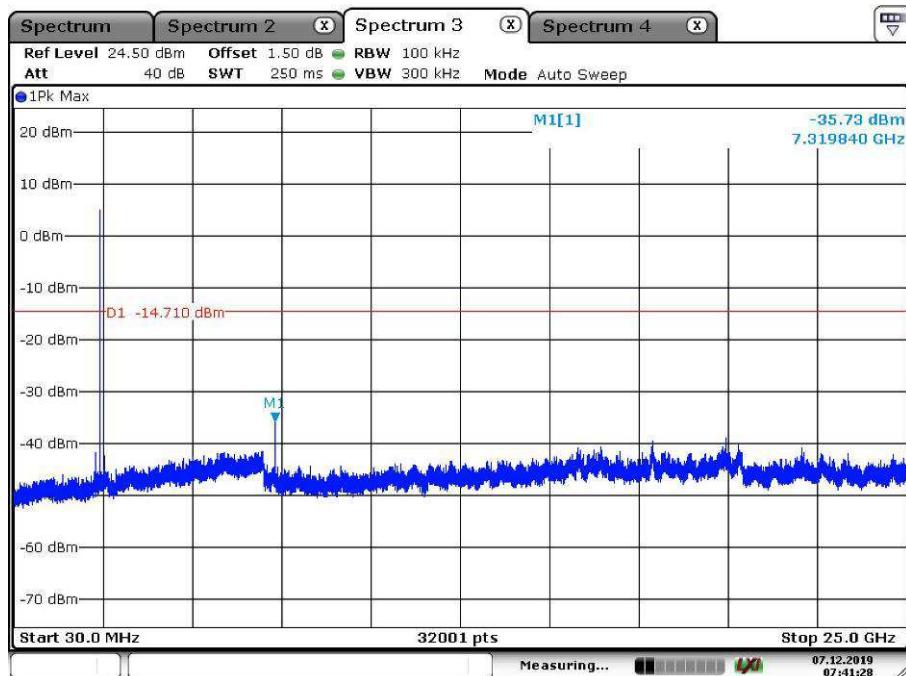
DTSS#1 (BLE)

Low Channel



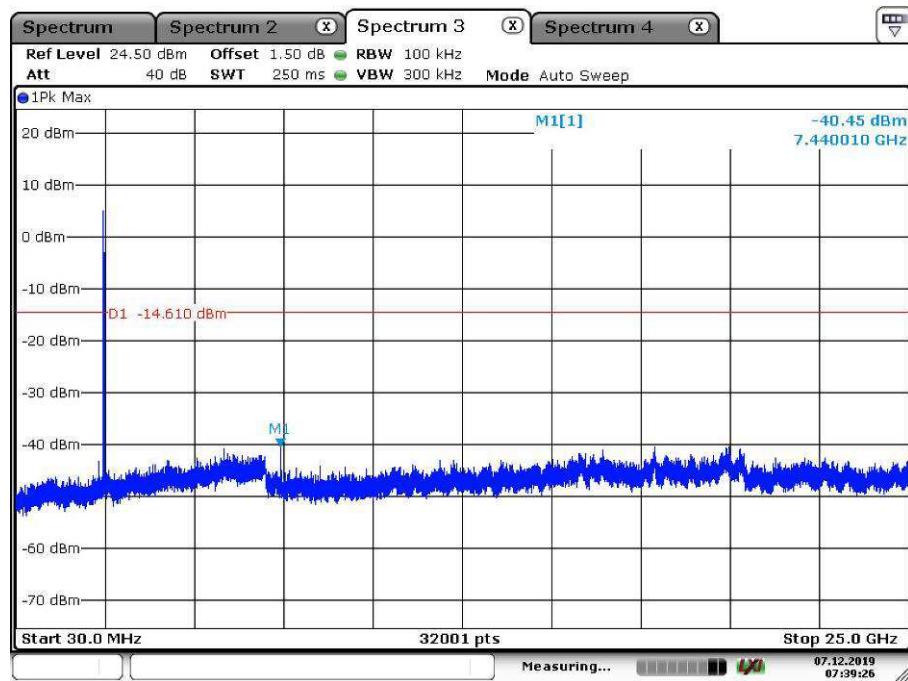
Date: 7.DEC.2019 07:43:33

Middle Channel



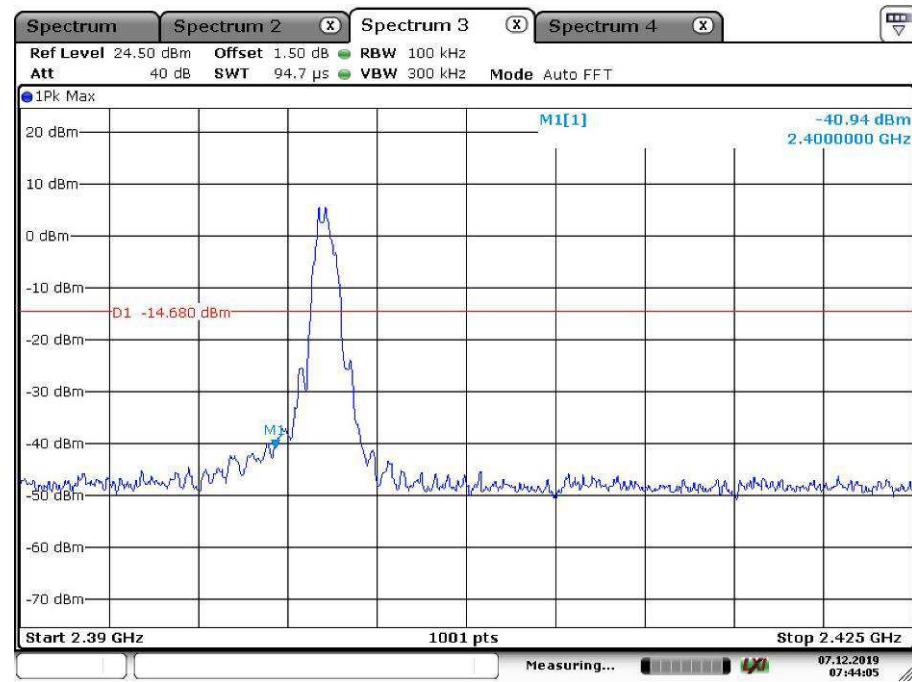
Date: 7.DEC.2019 07:41:28

High Channel



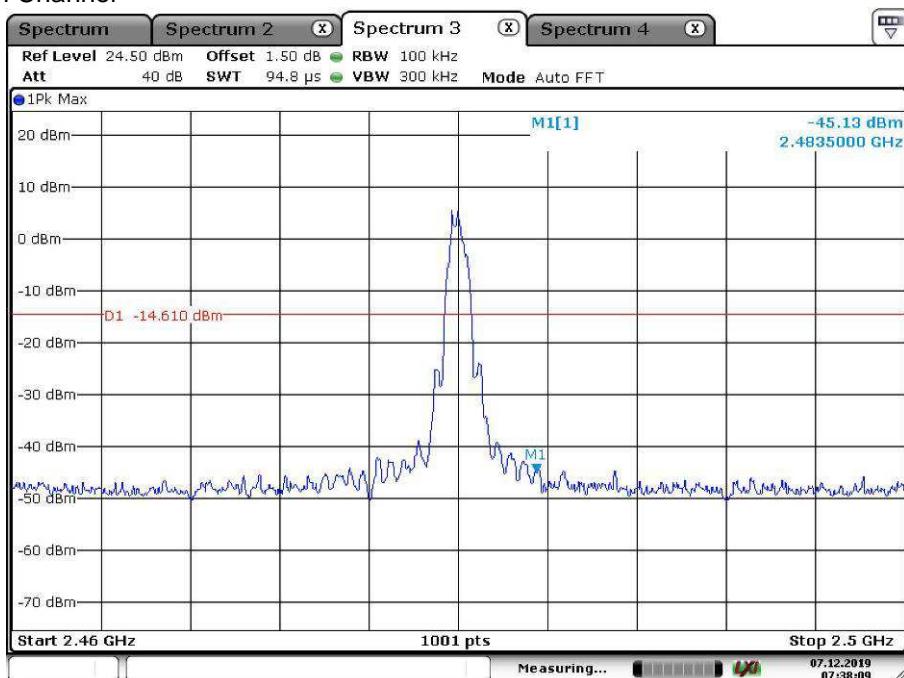
Date: 7.DEC.2019 07:39:26

Band Edge, Low Channel



Date: 7.DEC.2019 07:44:05

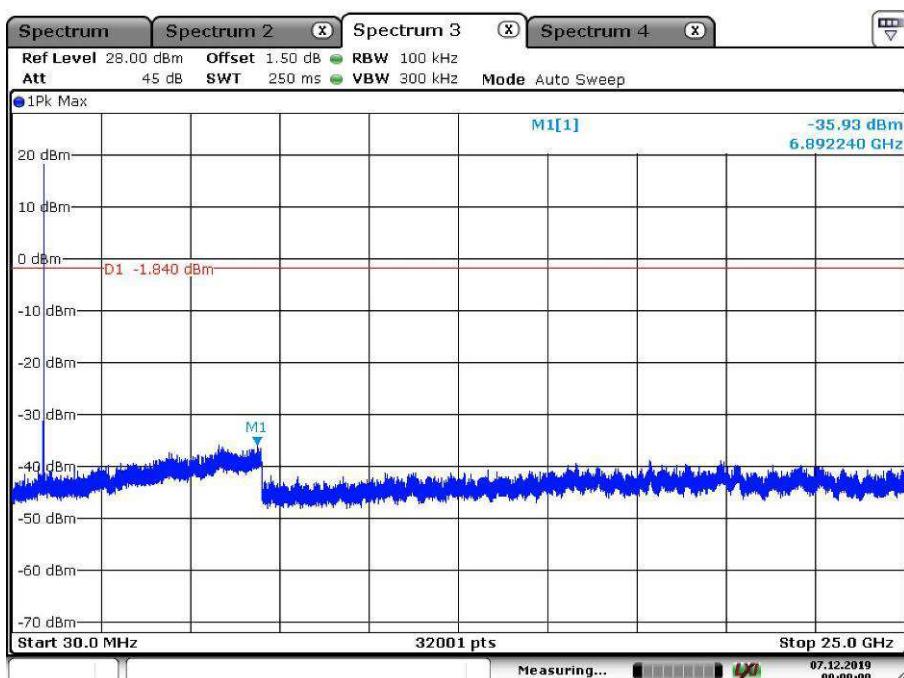
Band Edge, High Channel



Date: 7.DEC.2019 07:38:09

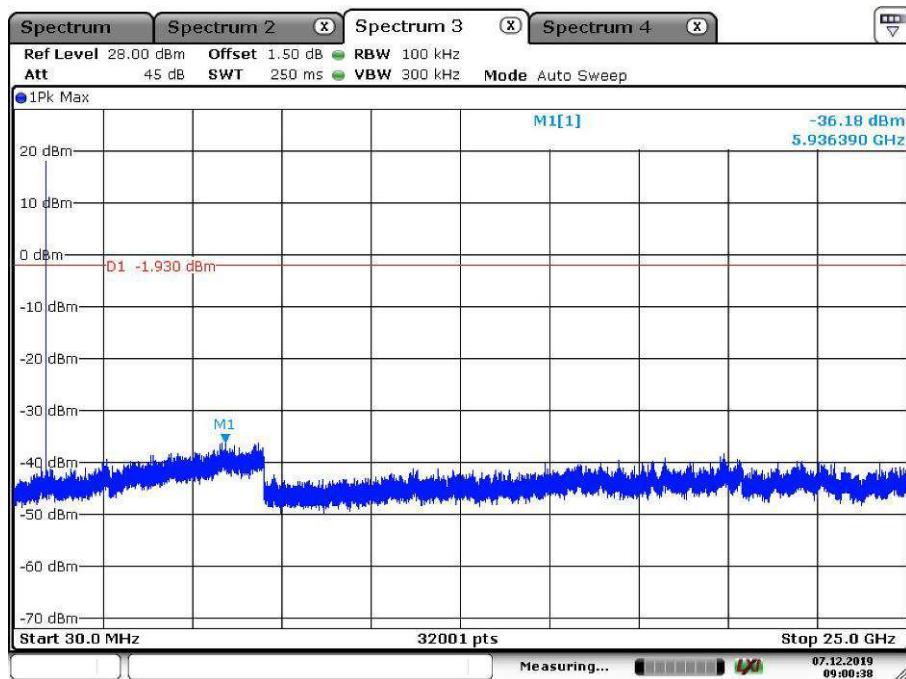
DTSS#2 (Bandwidth: 500KHz)

Low Channel

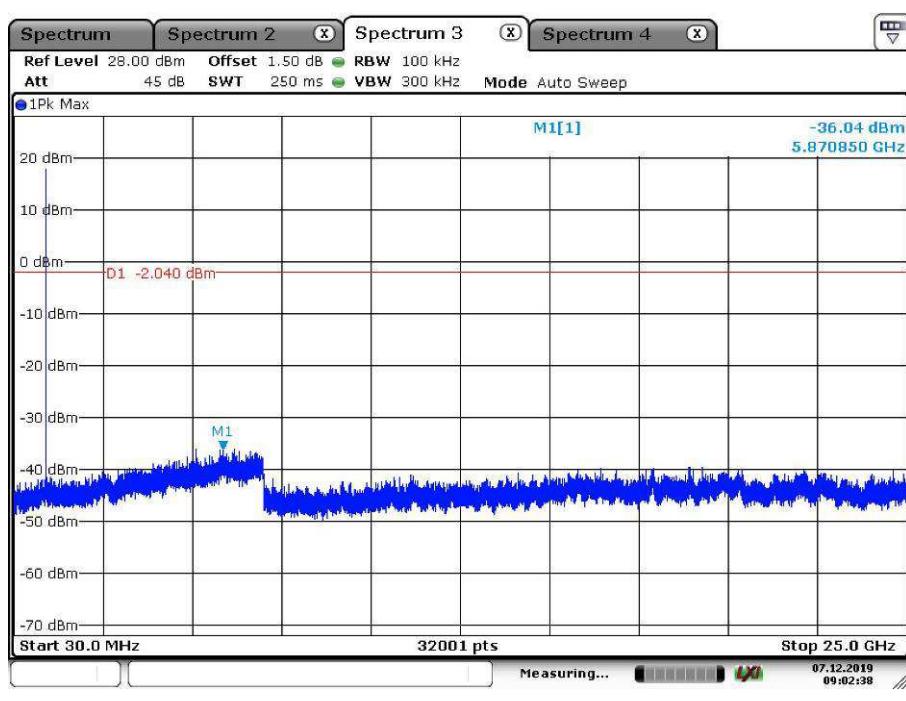


Date: 7.DEC.2019 08:59:59

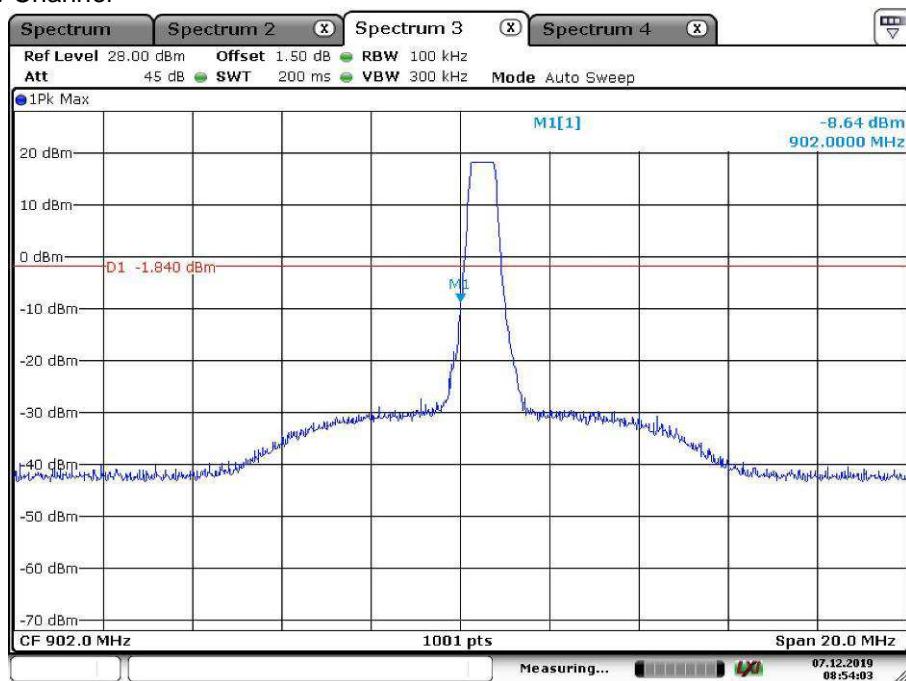
Middle Channel



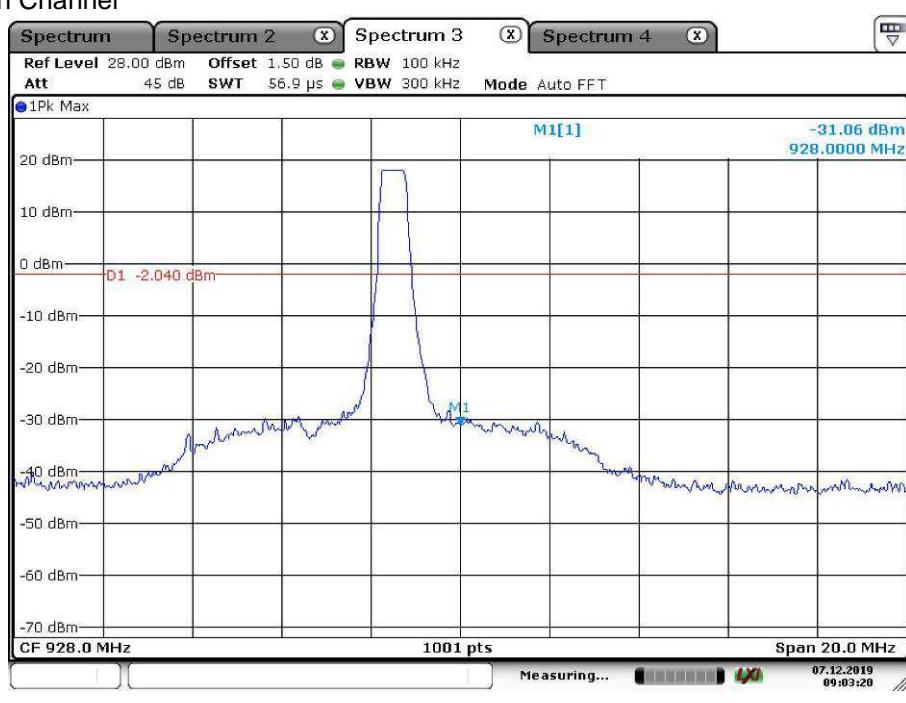
High Channel



Band Edge, Low Channel

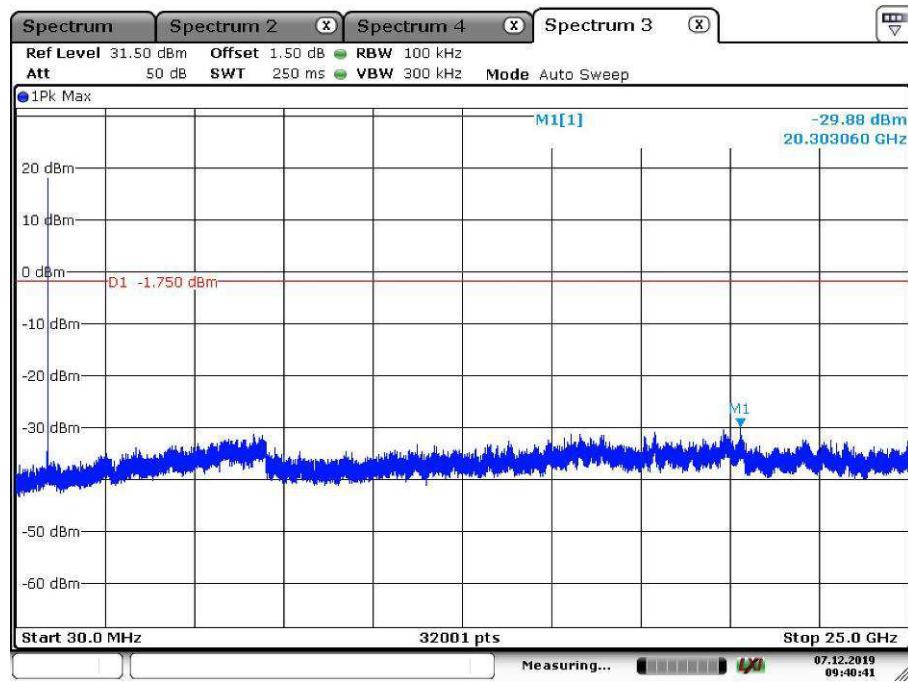


Band Edge, High Channel



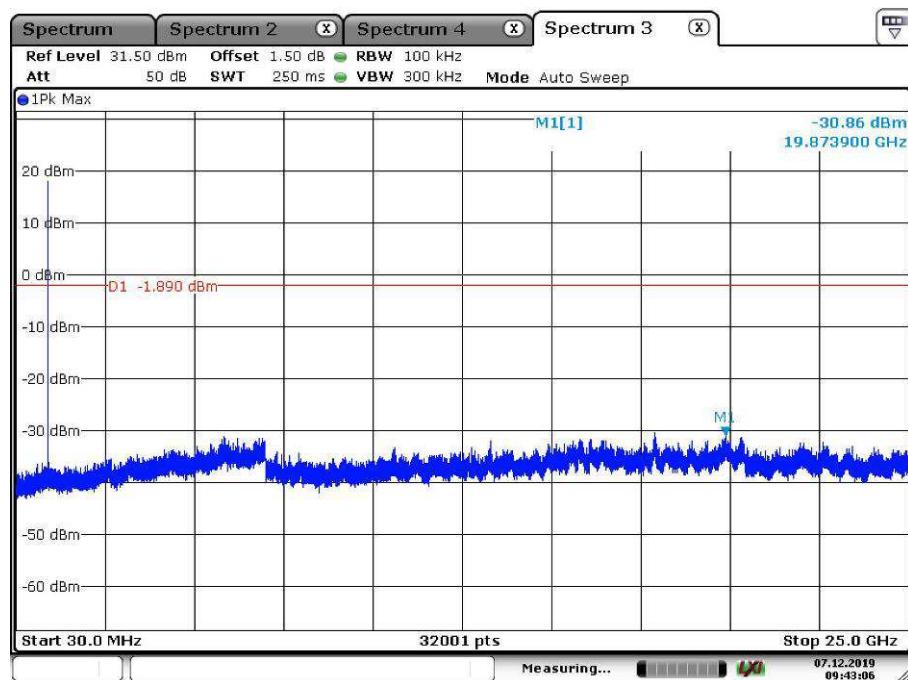
DTSs#3 (Bandwidth: 500KHz)

Low Channel



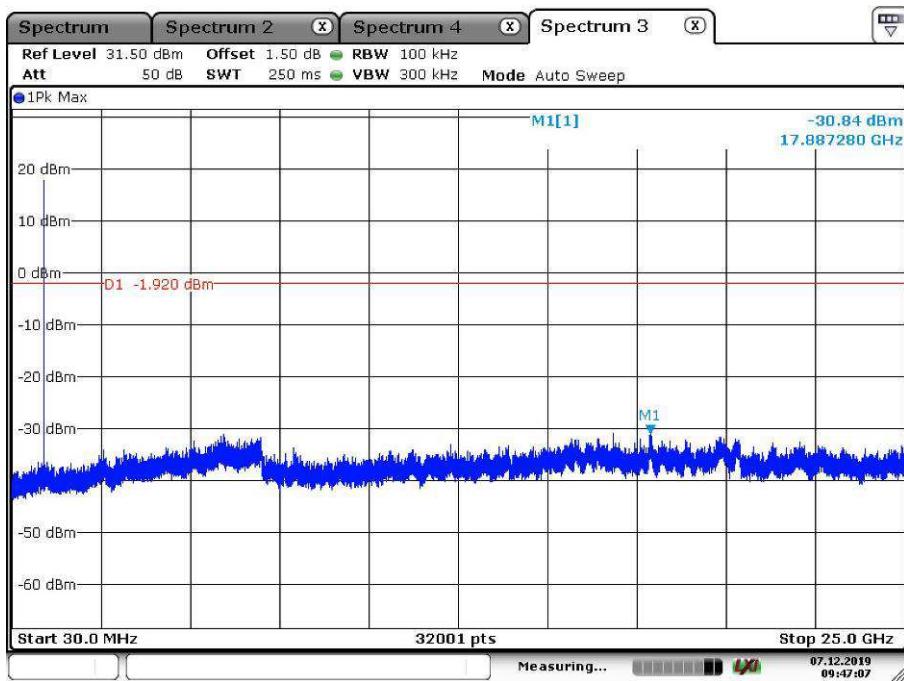
Date: 7.DEC.2019 09:40:41

Middle Channel

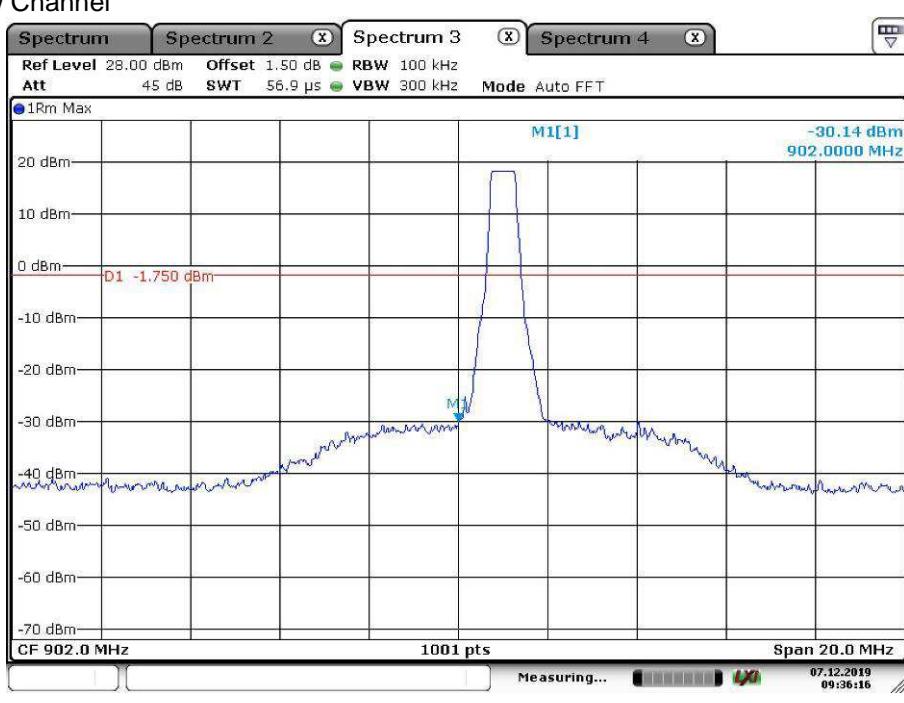


Date: 7.DEC.2019 09:43:06

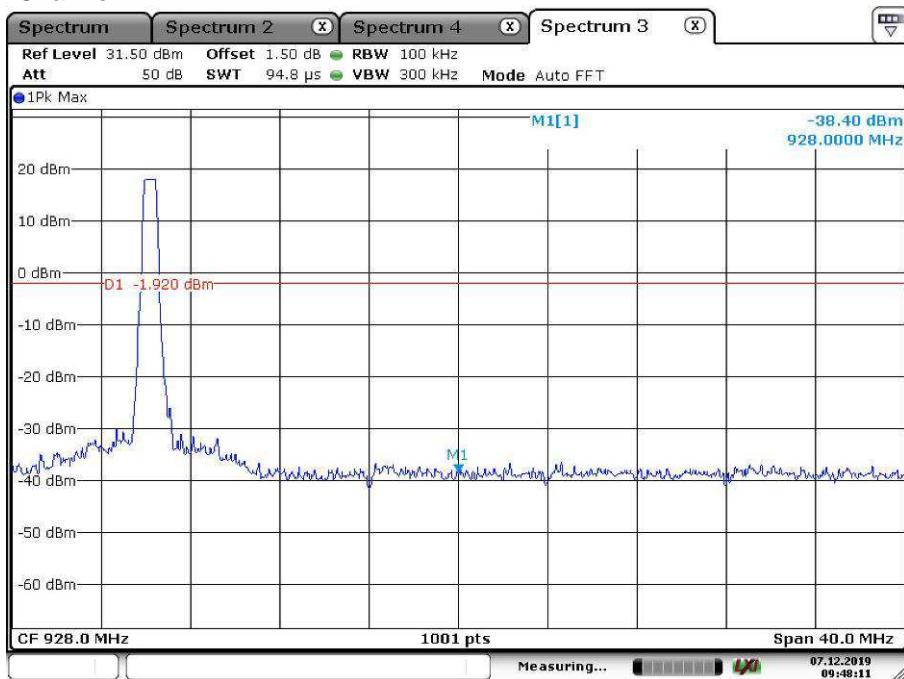
High Channel



Band Edge, Low Channel



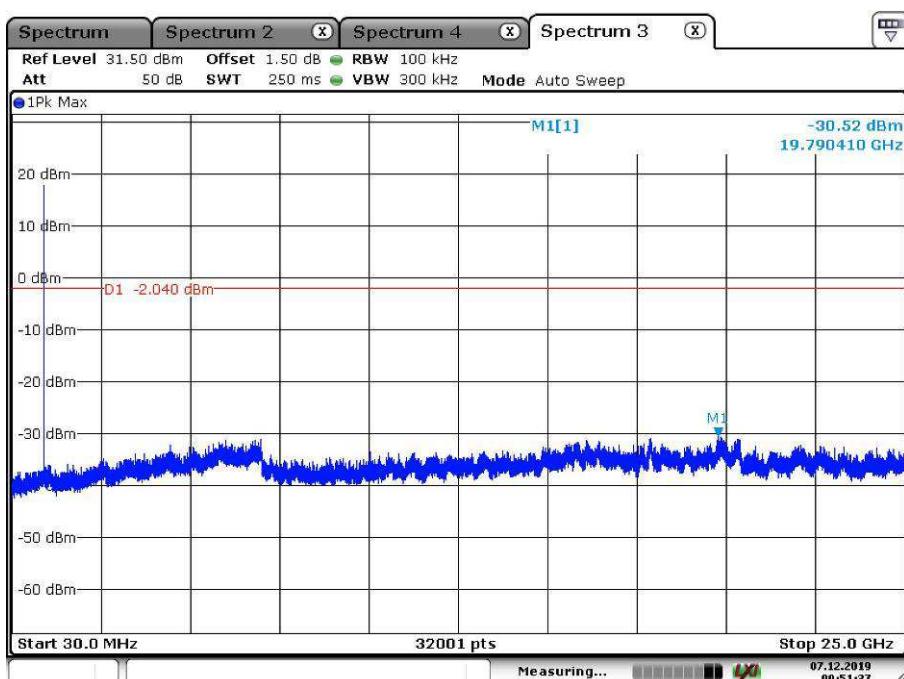
Band Edge, High Channel



Date: 7.DEC.2019 09:48:11

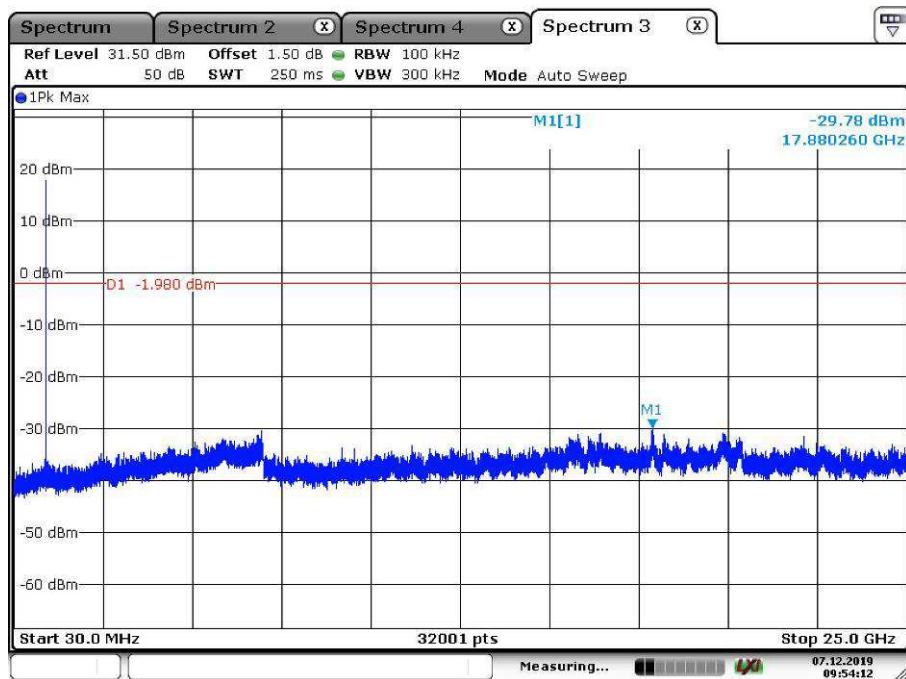
DTSs#4 (Bandwidth: 500KHz)

Low Channel

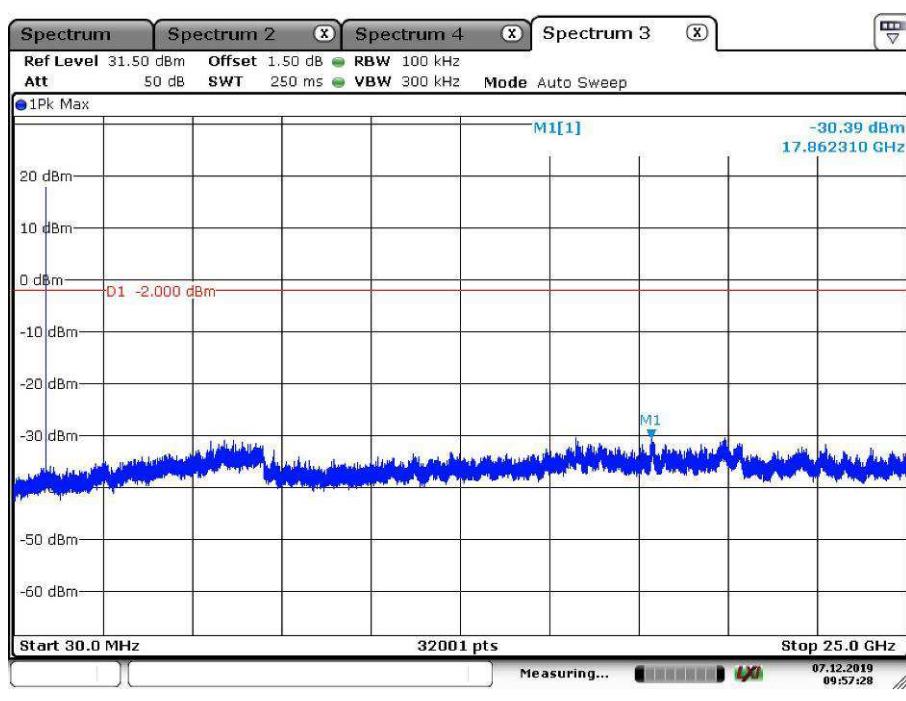


Date: 7.DEC.2019 09:51:38

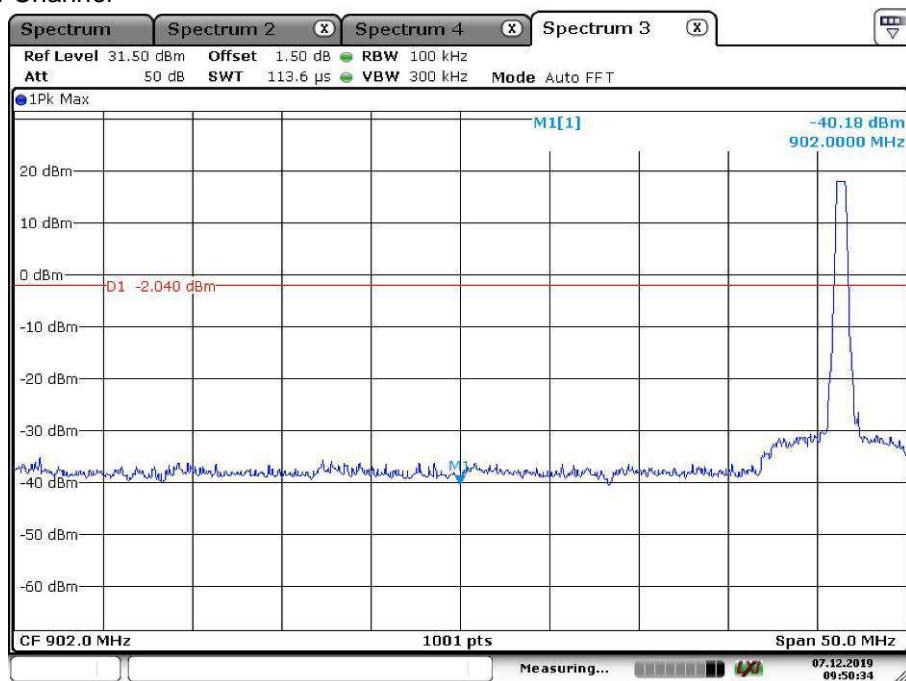
Middle Channel



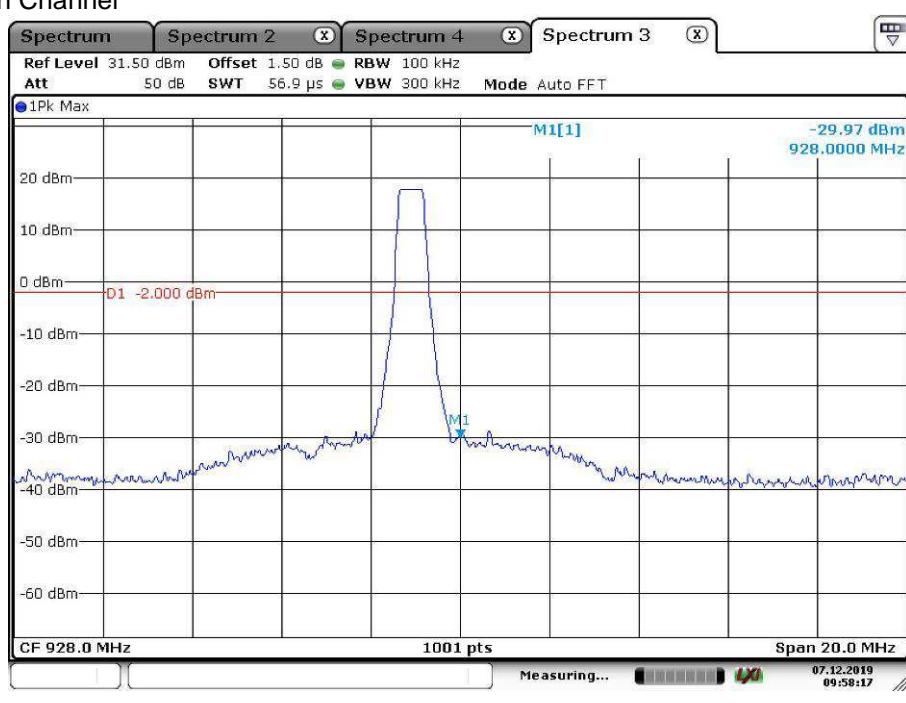
High Channel



Band Edge, Low Channel



Band Edge, High Channel



Appendix B.5: Test Results of Conducted Emission on AC Mains

Bluetooth connecting mode

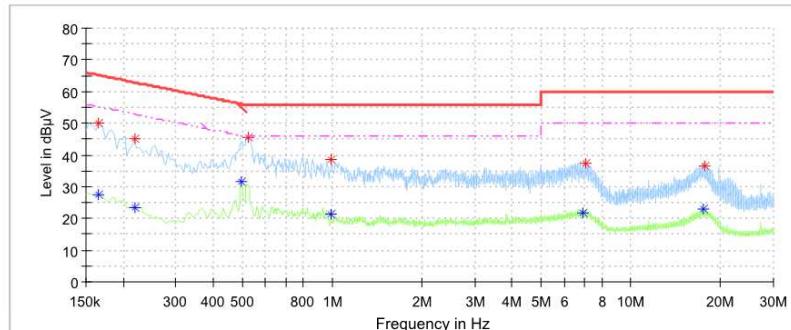
L-Bluetooth connecting mode

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Test Report

EUT Information

EUT Name: Solar Pathlight
Model: 5AT1S6
Order No.: 168141103-140
Test Mode: Bluetooth connecting mode
Test Voltage: AC 120V/60Hz
Test By: Tom Guo
Review By: Gary Chen



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.166000	---	27.68	55.16	27.47	---	---	L1	9.6
0.166000	50.19	---	65.16	14.97	---	---	L1	9.6
0.218000	---	23.59	52.90	29.31	---	---	L1	9.6
0.218000	45.22	---	62.90	17.68	---	---	L1	9.6
0.498000	---	31.53	46.03	14.50	---	---	L1	9.7
0.524000	45.44	---	56.00	10.56	---	---	L1	9.7
0.992000	38.63	---	56.00	17.37	---	---	L1	9.7
0.996000	---	21.33	46.00	24.67	---	---	L1	9.7
6.904000	---	21.58	50.00	28.42	---	---	L1	10.0
7.072000	37.26	---	60.00	22.74	---	---	L1	10.0
17.492000	---	23.03	50.00	26.97	---	---	L1	10.4
17.648000	36.61	---	60.00	23.39	---	---	L1	10.4

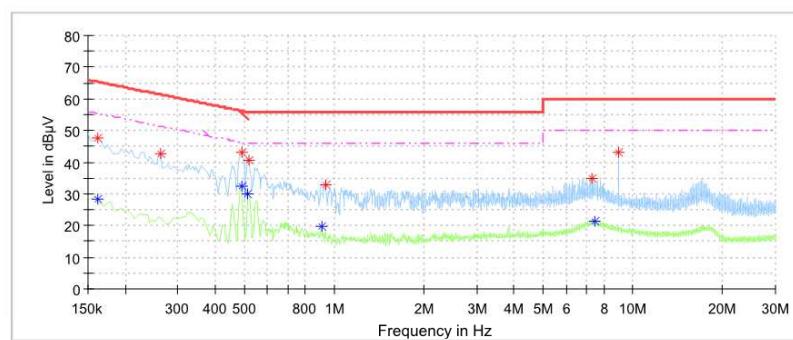
N-Bluetooth connecting mode

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Test Report

EUT Information

EUT Name: Solar Pathlight
Model: 5AT1S6
Order No.: 168141103-140
Test Mode: Bluetooth connecting mode
Test Voltage: AC 120V/60Hz
Test By: Tom Guo
Review By: Gary Chen



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.162000	---	28.27	55.36	27.09	---	---	N	9.6
0.162000	47.57	---	65.36	17.79	---	---	N	9.6
0.262000	42.50	---	61.37	18.87	---	---	N	9.6
0.490000	---	32.56	46.17	13.61	---	---	N	9.7
0.494000	42.99	---	56.10	13.11	---	---	N	9.7
0.516000	---	29.94	46.00	16.06	---	---	N	9.7
0.520000	40.58	---	56.00	15.42	---	---	N	9.7
0.908000	---	19.71	46.00	26.29	---	---	N	9.7
0.940000	32.64	---	56.00	23.36	---	---	N	9.7
7.296000	34.71	---	60.00	25.29	---	---	N	10.0
7.480000	---	21.50	50.00	28.50	---	---	N	10.0
8.940000	43.06	---	60.00	16.94	---	---	N	10.0

DTSs connecting mode

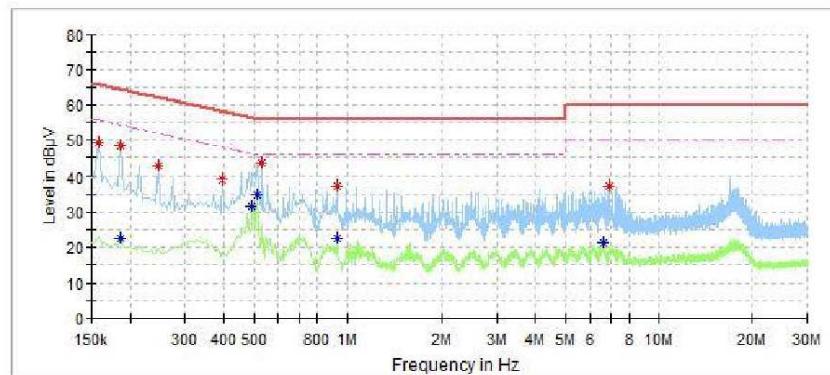
L-DTSs connecting mode

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Test Report

EUT Information

EUT Name: Solar Pathlight
Model: 5AT1S6
Order No.: 168141103-140
TestMode: DTSs connecting mode
Test Voltage: AC 120V/60Hz
Test By: Tom Guo
Review By: Gary Chen



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.158000	49.14	--	65.57	16.43	--	--	L1	9.6
0.186000	--	22.54	54.21	31.67	--	--	L1	9.6
0.186000	48.29	--	64.21	15.92	--	--	L1	9.6
0.246000	42.60	--	61.89	19.29	--	--	L1	9.6
0.398000	38.82	--	57.90	19.07	--	--	L1	9.7
0.494000	--	31.45	46.10	14.65	--	--	L1	9.7
0.516000	--	34.77	46.00	11.23	--	--	L1	9.7
0.532000	43.40	--	56.00	12.60	--	--	L1	9.7
0.928000	37.30	--	56.00	18.70	--	--	L1	9.7
0.928000	--	22.39	46.00	23.61	--	--	L1	9.7
6.652000	--	21.15	50.00	28.85	--	--	L1	10.0
6.932000	37.15	--	60.00	22.85	--	--	L1	10.0

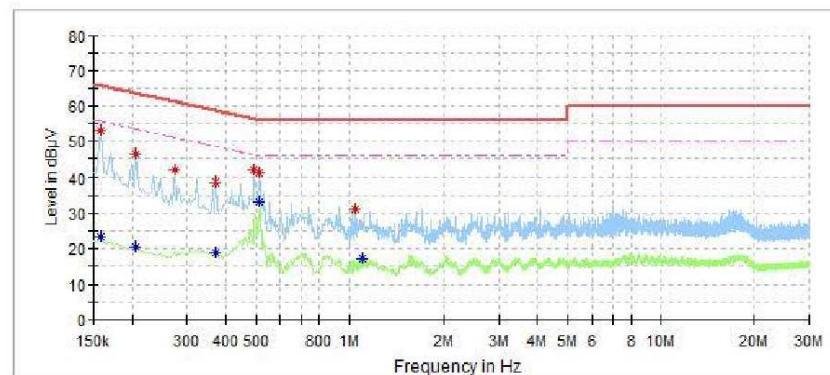
N-DTSs connecting mode

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Test Report

EUT Information

EUT Name: Solar Pathlight
Model: 5AT1S6
Order No.: 168141103-140
Test Mode: DTSs connecting mode
Test Voltage: AC 120V/60Hz
Test By: Tom Guo
Review By: Gary Chen



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.158000	--	23.49	55.57	32.08	--	--	N	9.6
0.158000	53.00	--	65.57	12.57	--	--	N	9.6
0.206000	46.45	--	63.37	16.92	--	--	N	9.6
0.206000	--	20.64	53.37	32.72	--	--	N	9.6
0.274000	41.83	--	61.00	19.17	--	--	N	9.6
0.370000	--	19.06	48.50	29.45	--	--	N	9.7
0.370000	38.37	--	58.50	20.13	--	--	N	9.7
0.494000	41.75	--	56.10	14.35	--	--	N	9.7
0.516000	--	33.13	46.00	12.87	--	--	N	9.7
0.516000	40.83	--	56.00	15.17	--	--	N	9.7
1.048000	31.01	--	56.00	24.99	--	--	N	9.7
1.100000	--	17.32	46.00	28.68	--	--	N	9.7