

3.4 Test Conditions and Results - Power spectral density

3.4.1 Information

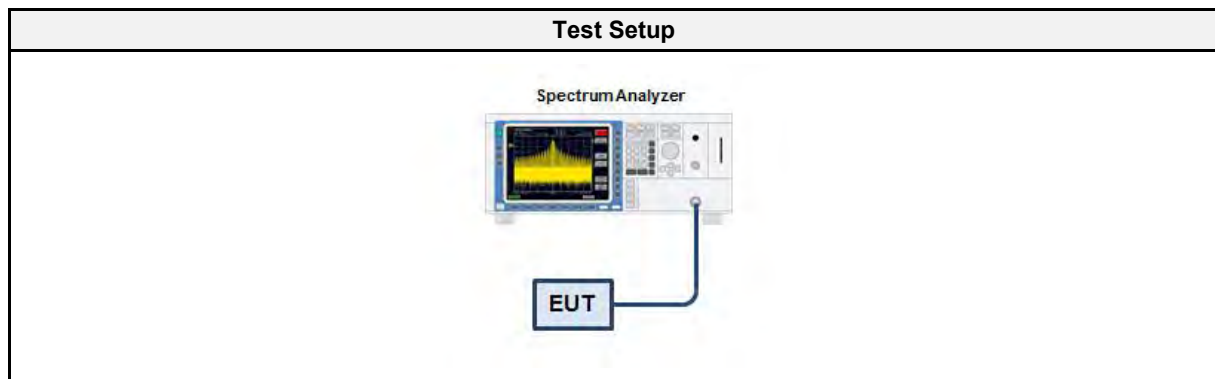
Test Information	
Reference	FCC 15.407(a)
Measurement Method	KDB 789033 F
Operator	Christian Weber
Date	2019-10-09

3.4.2 Limits

Limits			
Frequency band	Condition	PSD limit	Maximum antenna gain ¹
5150 - 5250 MHz	Access point, indoor	17 dBm/MHz	6 dBi
5150 - 5250 MHz	Access point, outdoor	17 dBm/MHz	6 dBi
5150 - 5250 MHz	Access point, fixed point to point	17 dBm/MHz	23 dBi
5150 - 5250 MHz	Client	11 dBm/MHz	6 dBi
5250 - 5350 MHz	All devices	11 dBm/MHz	6 dBi
5470 - 5725 MHz	All devices	11 dBm/MHz	6 dBi
5725 - 5850 MHz	All devices	30 dBm/500 kHz	6 dBi

Note 1: The power density limit must be reduced by the amount in dB that the gain exceeds the maximum allowed gain

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW 43	EF00896	2019-07	2020-07

3.4.5 Procedure

Test Procedure	
1.	EUT transmitter is activated in test mode under normal conditions
2.	The spectrum analyzer is set to rms detection with a span over the emission bandwidth
3.	The resolution bandwidth is set to 1 MHz / 500 kHz and video bandwidth to ≥ 3 MHz
4.	The number of sweep points is set $\geq 2 \times \text{span} / \text{RBW}$ and the sweep time is set to auto
5.	Trace averaging is set to 100
6.	The maximum of the emission envelope is determined
7.	The duty cycle ($10 \times \text{Log}_{10}(1/\text{duty cycle})$) correction is added to the measurement result

3.4.6 Results

Test Results - 5150 - 5250 MHz – SS1							
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/MHz]	PSD Port B [dBm/MHz]	Limit [dBm/MHz]	Verdict
OFDM	36	5180	20	-2.332	-1.224	10	PASS
OFDM	40	5200	20	-1.535	-0.614	10	PASS
OFDM	48	5240	20	-1.967	-1.267	10	PASS
HT20	36	5180	20	-2.315	-1.441	10	PASS
HT20	40	5200	20	-1.474	-0.914	10	PASS
HT20	48	5240	20	-1.775	-1.361	10	PASS
VHT20	36	5180	20	-2.500	-1.178	10	PASS
VHT20	40	5200	20	-1.803	-0.562	10	PASS
VHT20	48	5240	20	-2.056	-1.289	10	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5150 - 5250 MHz – SS2								
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/MHz]	PSD Port B [dBm/MHz]	Total PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HT20	36	5180	20	-2.431	-1.666	0.979	10	PASS
HT20	40	5200	20	-2.101	-1.096	1.441	10	PASS
HT20	48	5240	20	-2.498	-1.284	1.162	10	PASS
VHT20	36	5180	20	-2.525	-1.421	1.072	10	PASS
VHT20	40	5200	20	-2.173	-1.249	1.324	10	PASS
VHT20	48	5240	20	-2.058	-1.530	1.224	10	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5250 - 5350 MHz – SS1							
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/MHz]	PSD Port B [dBm/MHz]	Limit [dBm/MHz]	Verdict
OFDM	52	5260	20	-4.685	-3.824	10	PASS
OFDM	56	5280	20	-5.750	-4.720	10	PASS
OFDM	64	5320	20	-6.934	-6.015	10	PASS
HT20	52	5260	20	-4.498	-4.259	10	PASS
HT20	56	5280	20	-5.414	-4.863	10	PASS
HT20	64	5320	20	-7.408	-6.212	10	PASS
VHT20	52	5260	20	-4.850	-4.288	10	PASS
VHT20	56	5280	20	-5.846	-4.700	10	PASS
VHT20	64	5320	20	-6.898	-5.971	10	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5250 - 5350 MHz – SS2								
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/MHz]	PSD Port B [dBm/MHz]	Total PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HT20	52	5260	20	-4.813	-4.211	-1.491	10	PASS
HT20	56	5280	20	-5.817	-4.933	-2.342	10	PASS
HT20	64	5320	20	-7.464	-6.109	-3.724	10	PASS
VHT20	52	5260	20	-5.113	-4.165	-1.603	10	PASS
VHT20	56	5280	20	-5.644	-4.748	-2.163	10	PASS
VHT20	64	5320	20	-7.282	-5.925	-3.540	10	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5470 - 5725 MHz – SS1							
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/MHz]	PSD Port B [dBm/MHz]	Limit [dBm/MHz]	Verdict
OFDM	100	5500	20	-6.191	-6.171	10	PASS
OFDM	120	5600	20	-5.242	-4.502	10	PASS
OFDM	140	5700	20	-7.672	-6.305	10	PASS
HT20	100	5500	20	-6.485	-6.502	10	PASS
HT20	120	5600	20	-5.475	-4.840	10	PASS
HT20	140	5700	20	-7.717	-6.578	10	PASS
VHT20	100	5500	20	-6.653	-6.518	10	PASS
VHT20	120	5600	20	-5.760	-4.489	10	PASS
VHT20	140	5700	20	-7.768	-6.292	10	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5470 - 5725 MHz – SS2								
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/MHz]	PSD Port B [dBm/MHz]	Total PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HT20	100	5500	20	-6.727	-6.264	-3.479	10	PASS
HT20	120	5600	20	-5.625	-4.421	-1.971	10	PASS
HT20	140	5700	20	-7.731	-6.570	-4.102	10	PASS
VHT20	100	5500	20	-6.506	-6.233	-3.357	10	PASS
VHT20	120	5600	20	-5.499	-4.729	-2.087	10	PASS
VHT20	140	5700	20	-8.048	-6.790	-4.363	10	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5725 - 5850 MHz – SS1							
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/500 kHz]	PSD Port B [dBm/500 kHz]	Limit [dBm/500 kHz]	Verdict
OFDM	149	5745	20	-9.057	-7.677	29	PASS
OFDM	157	5785	20	-8.695	-7.024	29	PASS
OFDM	165	5825	20	-8.492	-7.314	29	PASS
HT20	149	5745	20	-8.586	-8.071	29	PASS
HT20	157	5785	20	-8.701	-7.327	29	PASS
HT20	165	5825	20	-8.611	-7.585	29	PASS
VHT20	149	5745	20	-8.934	-8.165	29	PASS
VHT20	157	5785	20	-8.588	-7.739	29	PASS
VHT20	165	5825	20	-8.553	-7.810	29	PASS

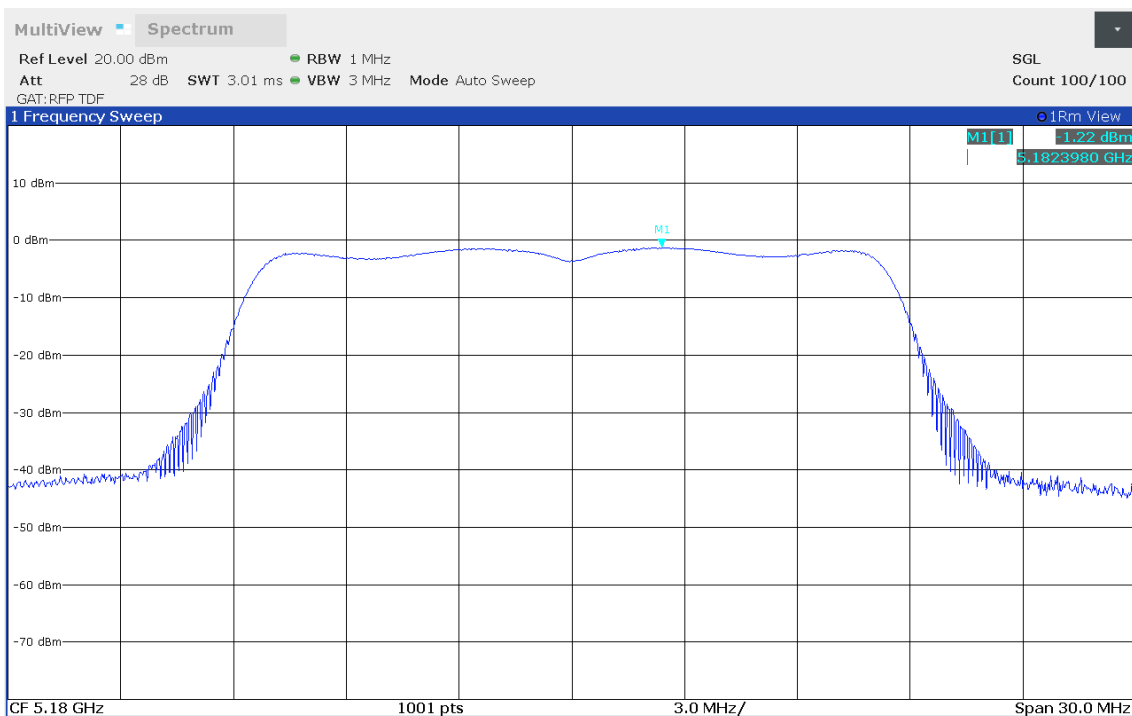
Note 1: Limits reduced by 1 dB due to antenna excess gain

Test Results - 5725 - 5850 MHz – SS2								
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD Port W [dBm/500 kHz]	PSD Port B [dBm/500 kHz]	Total PSD [dBm/500 kHz]	Limit [dBm/500 kHz]	Verdict
HT20	149	5745	20	-8.509	-7.650	-5.048	29	PASS
HT20	157	5785	20	-8.645	-7.064	-4.773	29	PASS
HT20	165	5825	20	-8.838	-7.092	-4.868	29	PASS
VHT20	149	5745	20	-8.206	-7.679	-4.924	29	PASS
VHT20	157	5785	20	-8.721	-7.136	-4.846	29	PASS
VHT20	165	5825	20	-8.321	-7.253	-4.744	29	PASS

Note 1: Limits reduced by 1 dB due to antenna excess gain

Maximum Power Spectral Density

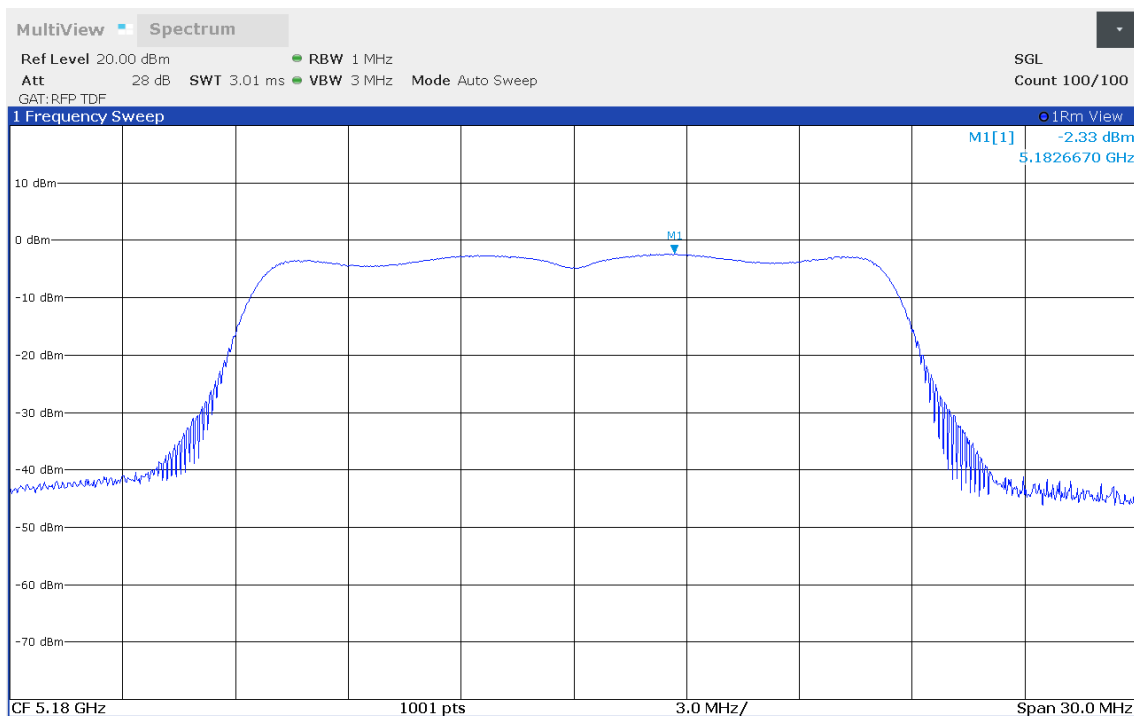
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Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5182.398
Spectral Density [dBm/RBW]:	-1.224
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

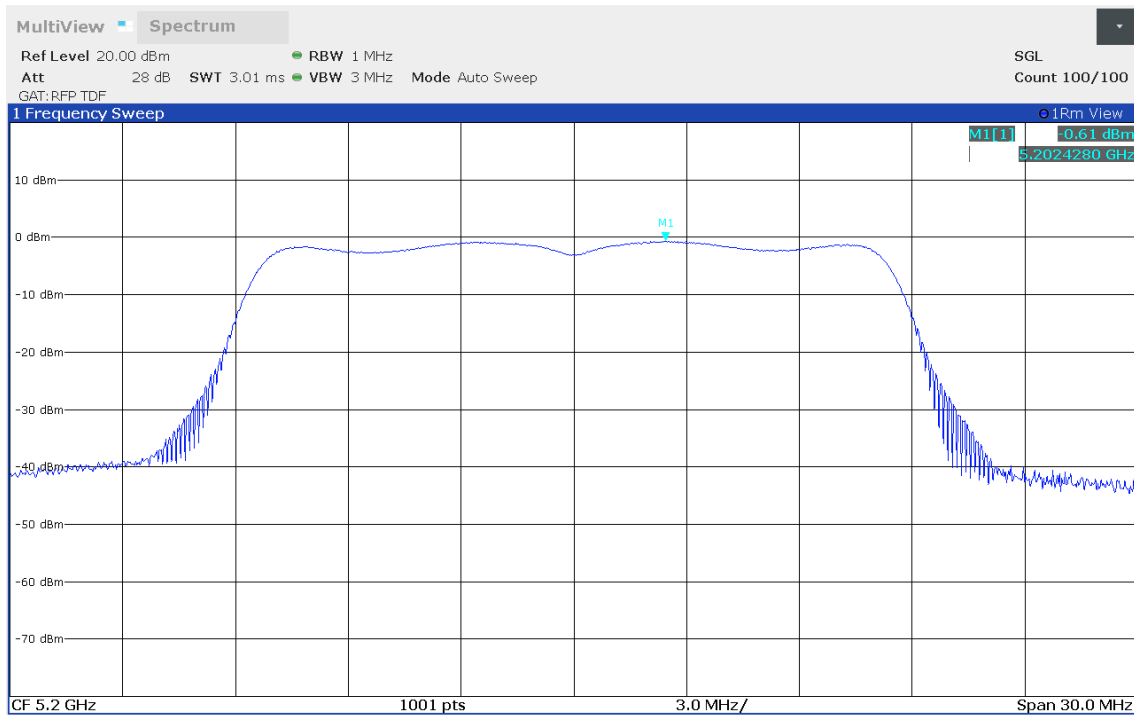
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Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5182.667
Spectral Density [dBm/RBW]:	-2.332
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

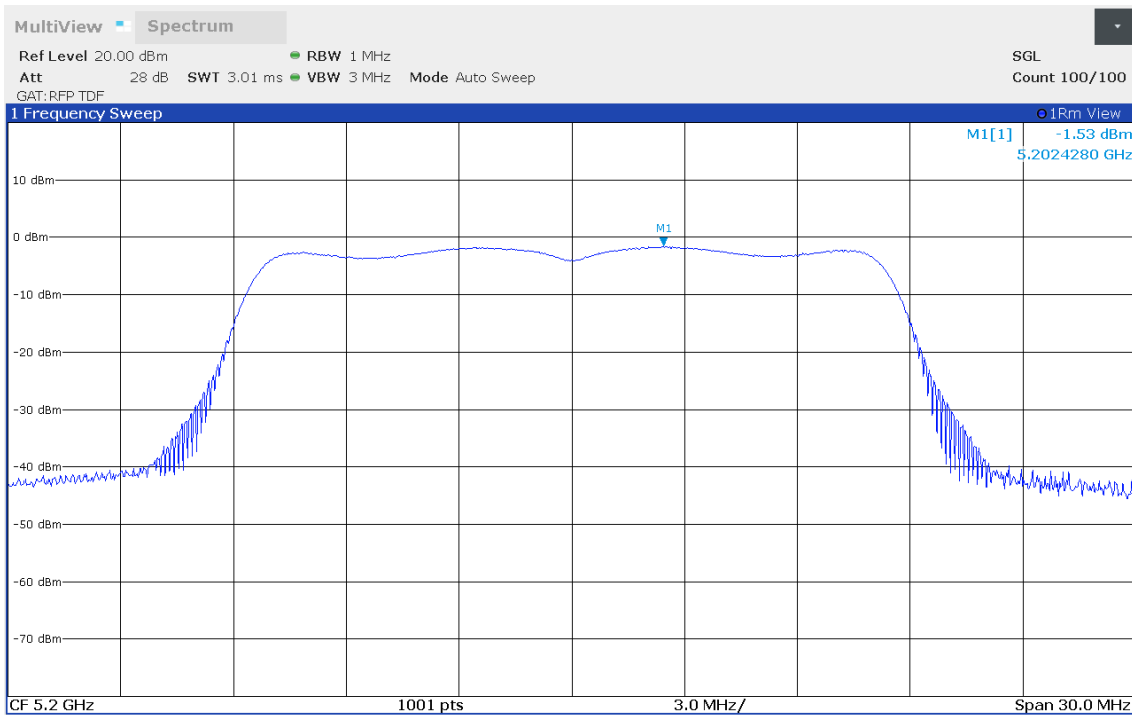
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5202.428
Spectral Density [dBm/RBW]:	-0.614
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

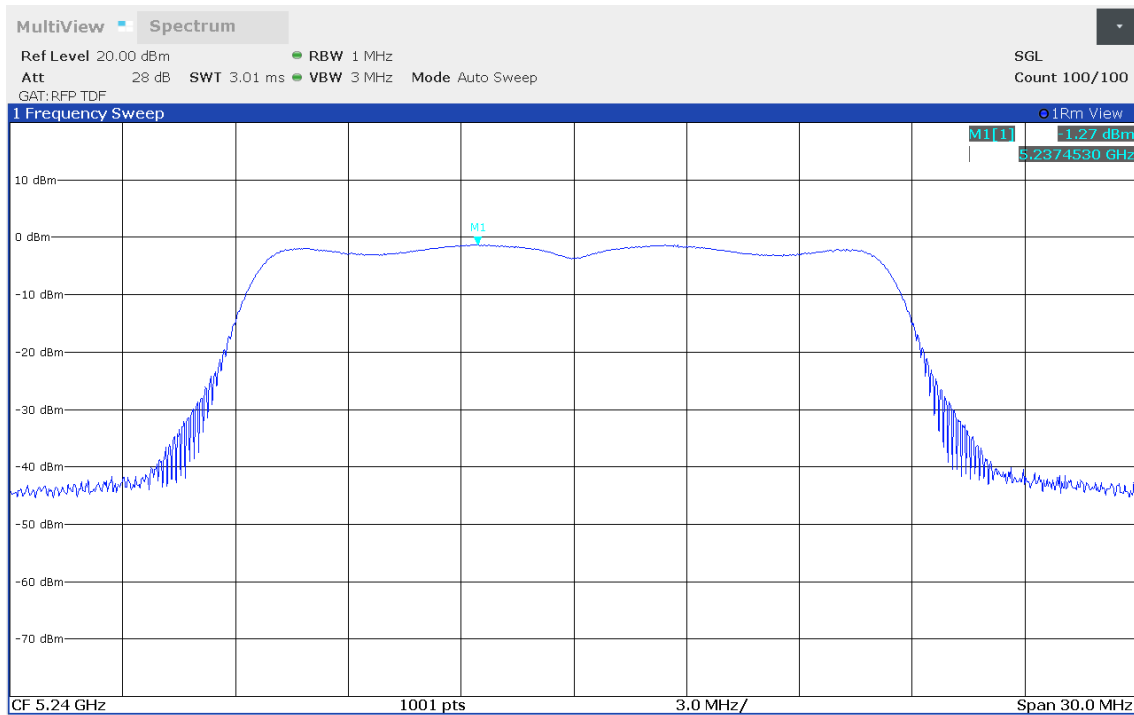
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5202.428
Spectral Density [dBm/RBW]:	-1.535
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

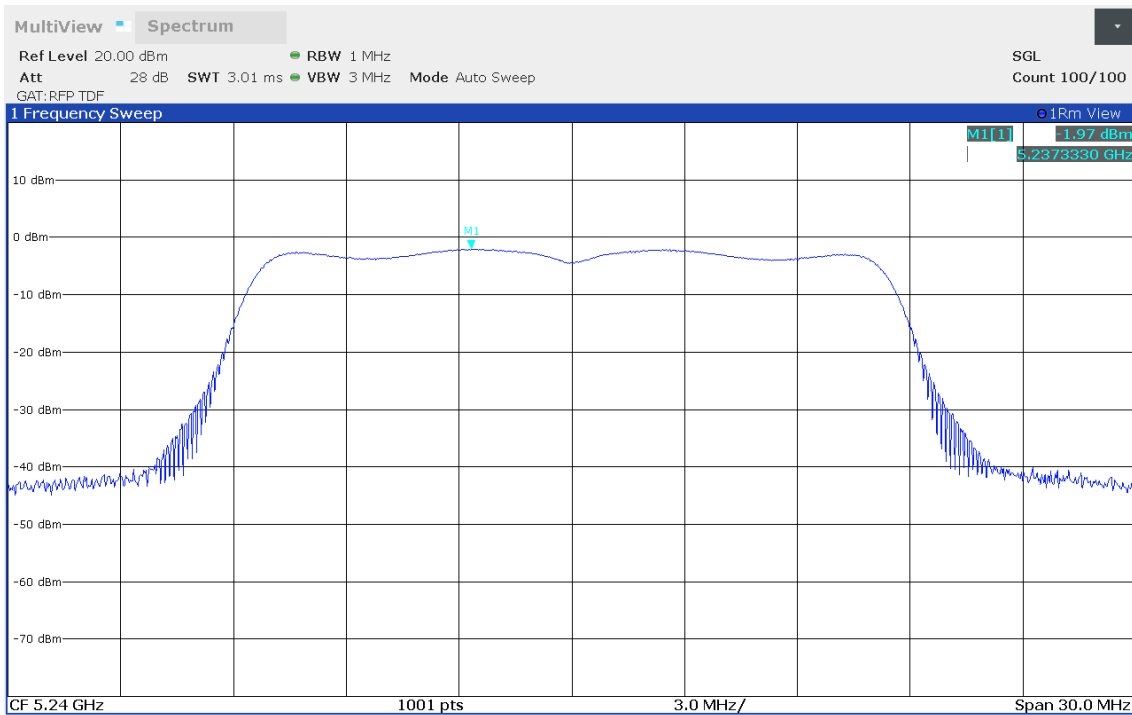
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Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5237.453
Spectral Density [dBm/RBW]:	-1.267
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

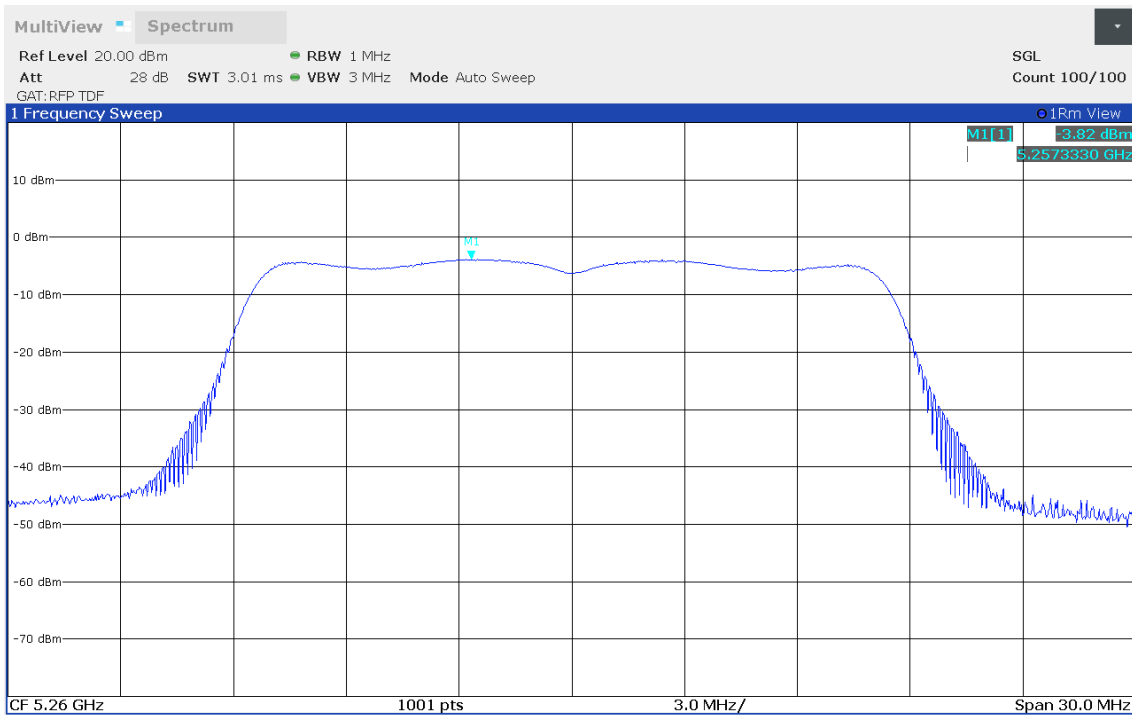
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5237.333
Spectral Density [dBm/RBW]:	-1.967
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

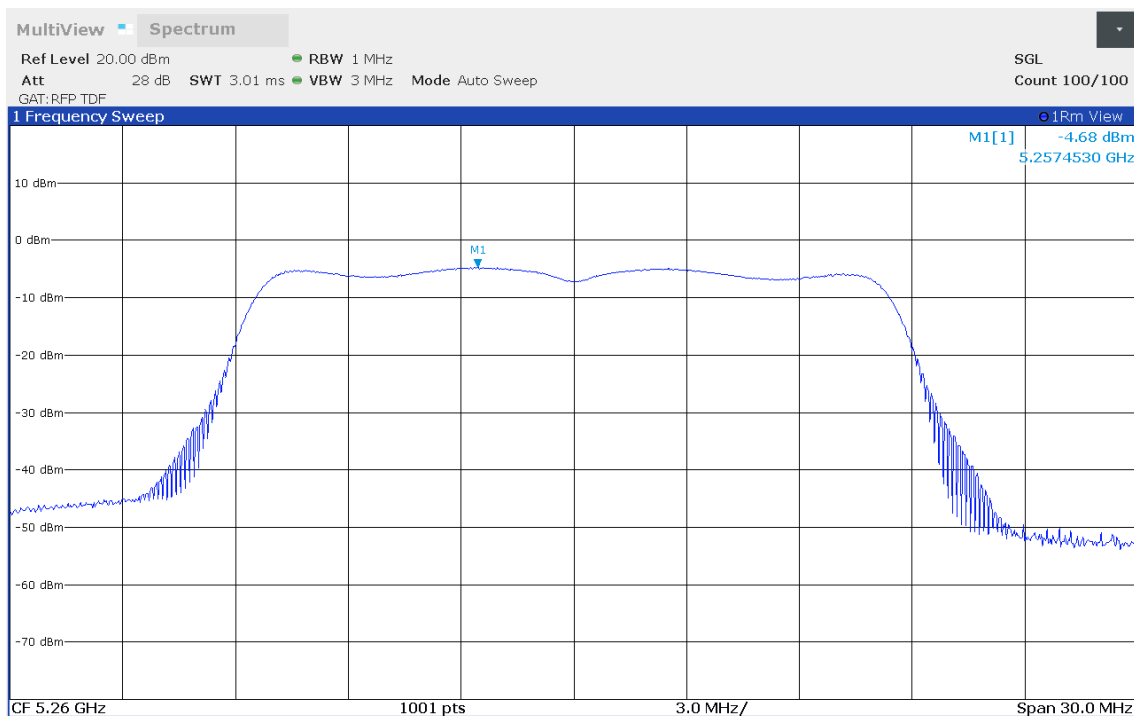
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5257.333
Spectral Density [dBm/RBW]:	-3.824
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

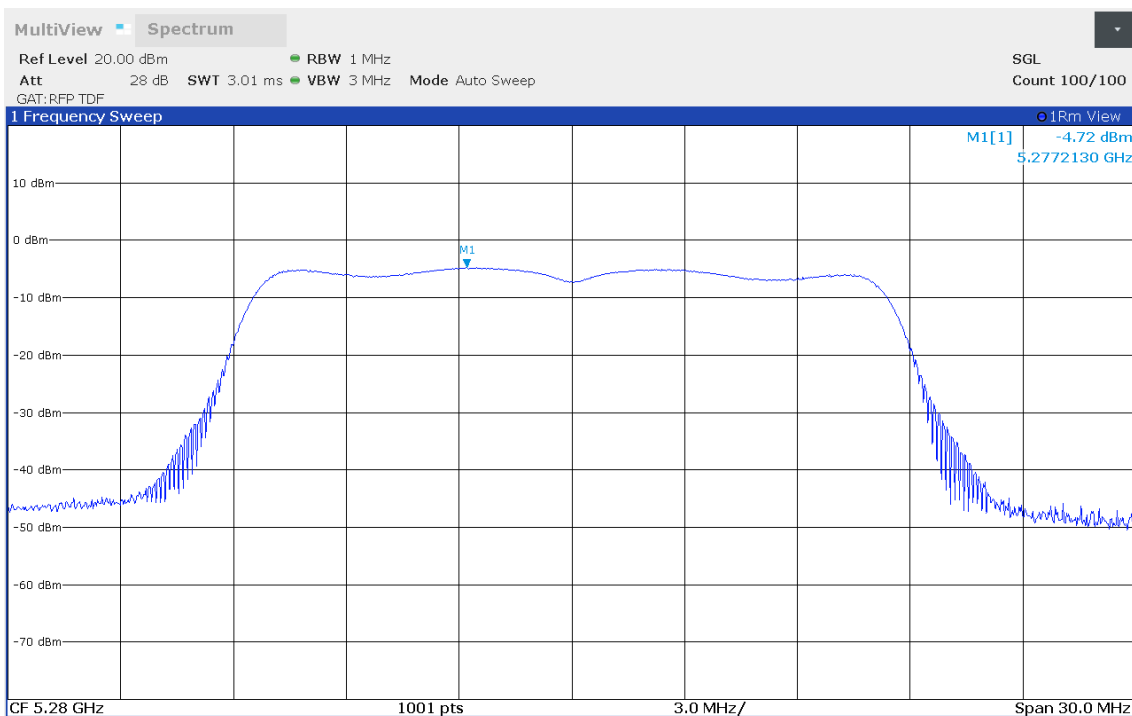
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 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 52, 5260 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5257.453
 Spectral Density [dBm/RBW]: -4.685
 Resolution Bandwidth [MHz]: 1



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Maximum Power Spectral Density

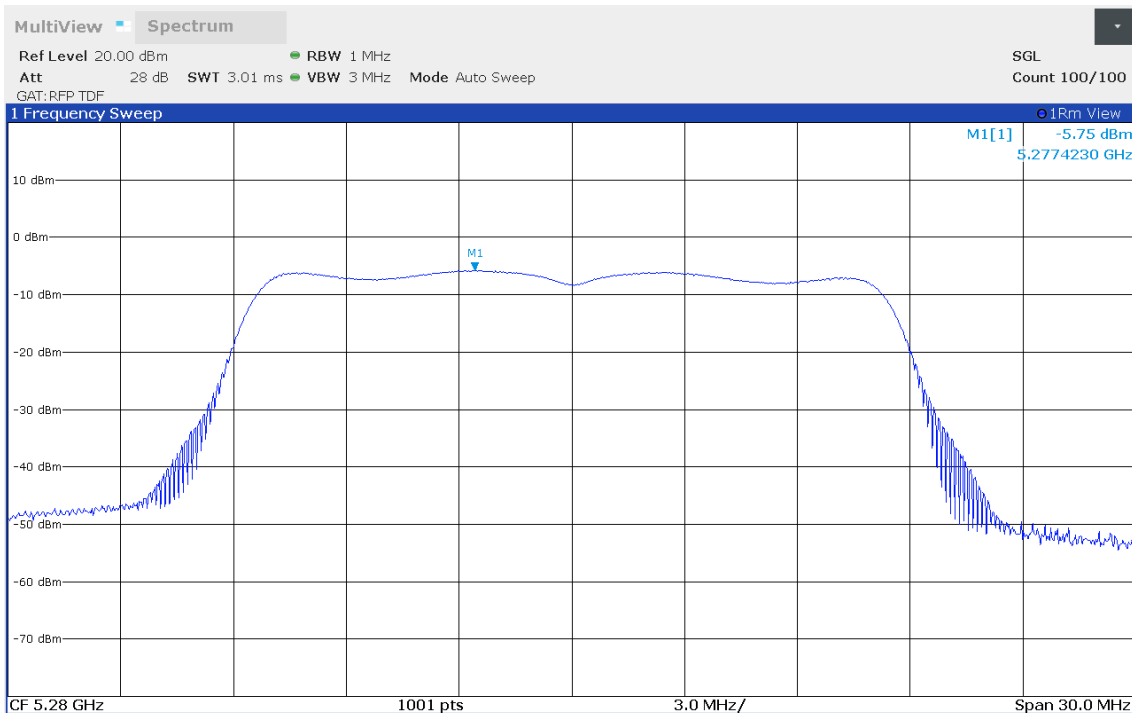
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5277.213
Spectral Density [dBm/RBW]:	-4.720
Resolution Bandwidth [MHz]:	1



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Maximum Power Spectral Density

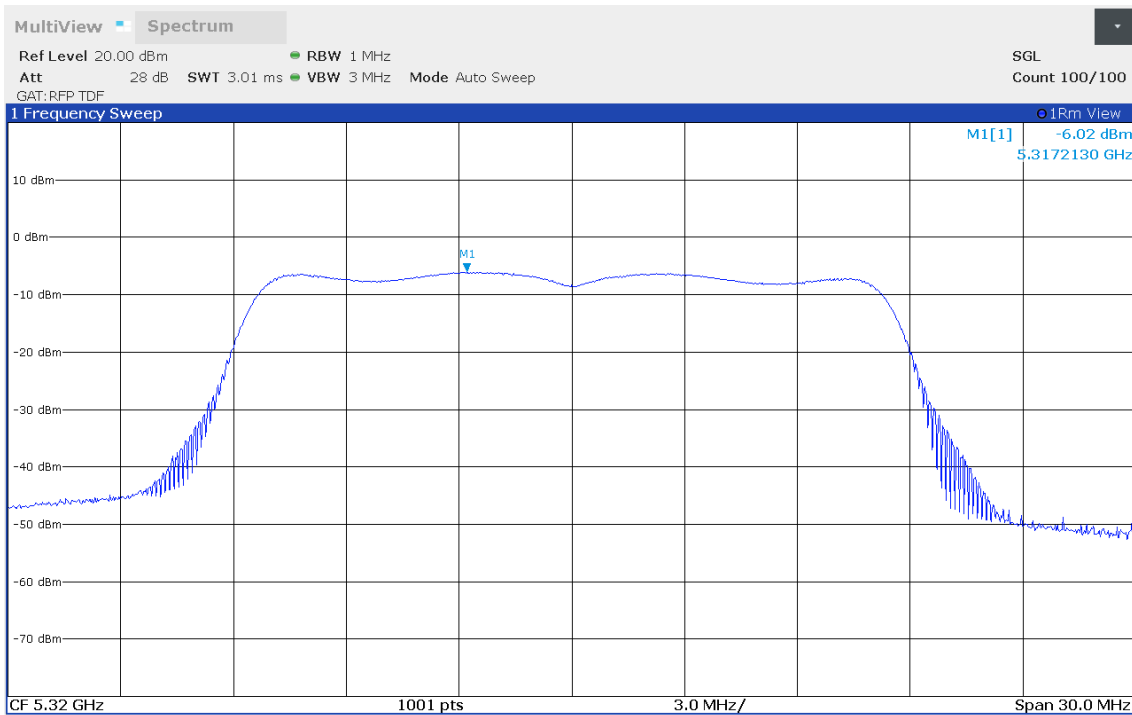
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 Applicant: BIOTRONIK SE & Co. KG
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 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 56, 5280 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5277.423
 Spectral Density [dBm/RBW]: -5.750
 Resolution Bandwidth [MHz]: 1



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Maximum Power Spectral Density

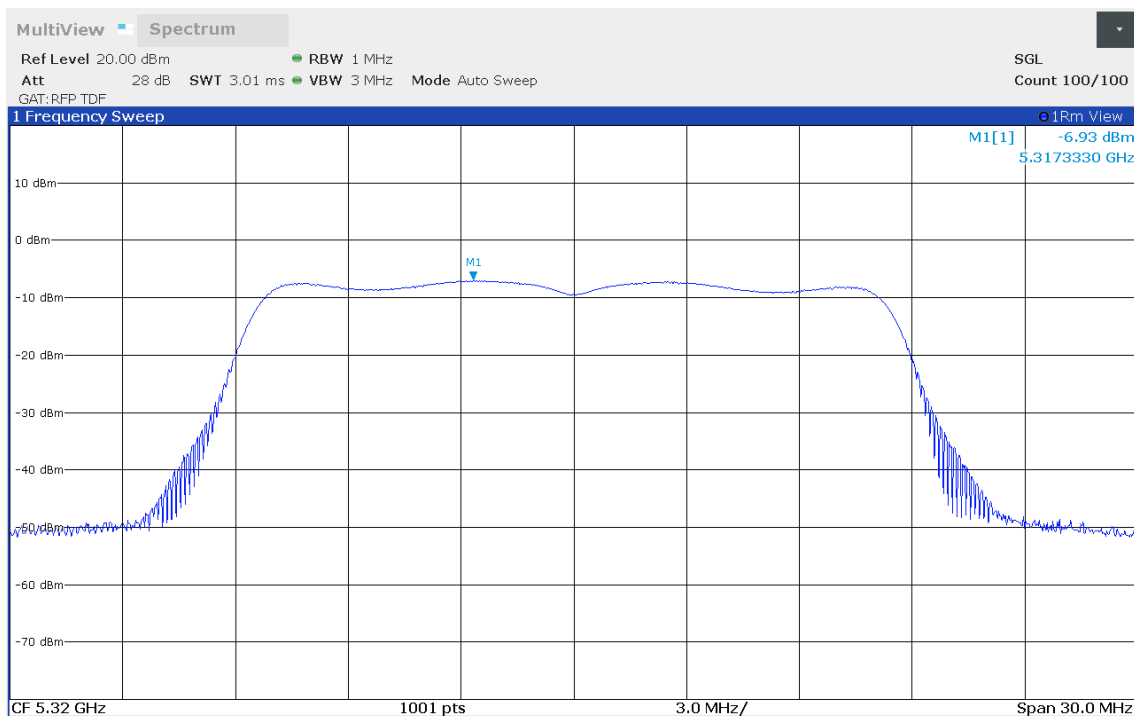
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5317.213
Spectral Density [dBm/RBW]:	-6.015
Resolution Bandwidth [MHz]:	1



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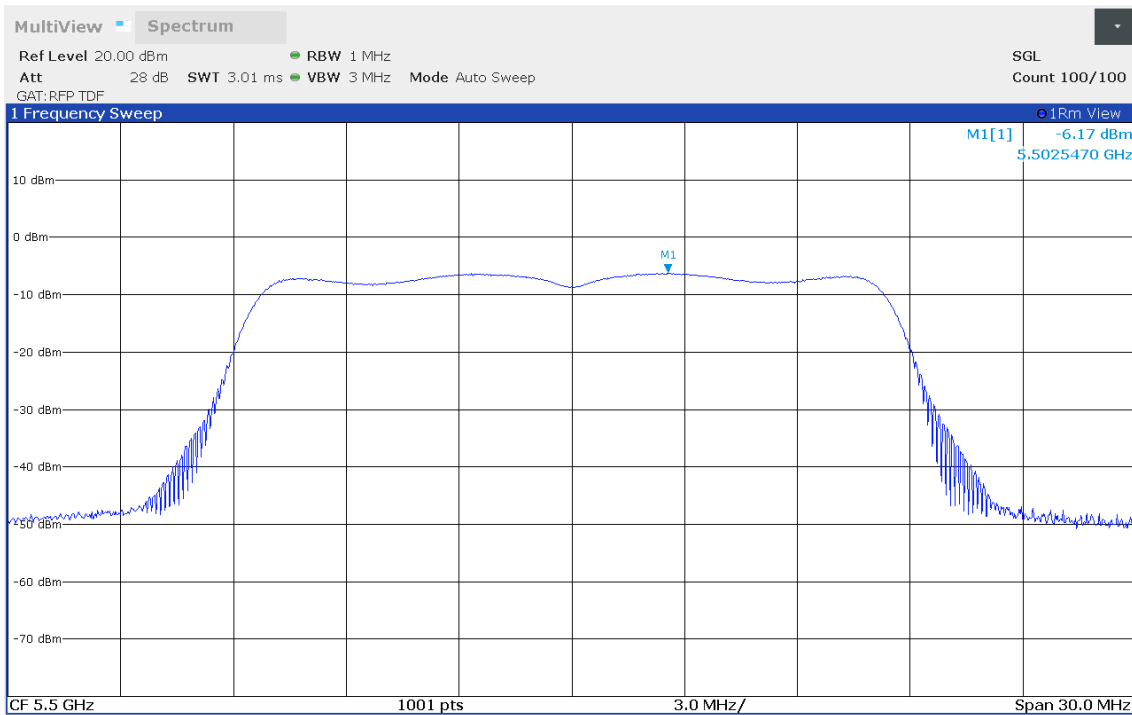
Maximum Power Spectral Density

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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5317.333
Spectral Density [dBm/RBW]:	-6.934
Resolution Bandwidth [MHz]:	1



Maximum Power Spectral Density

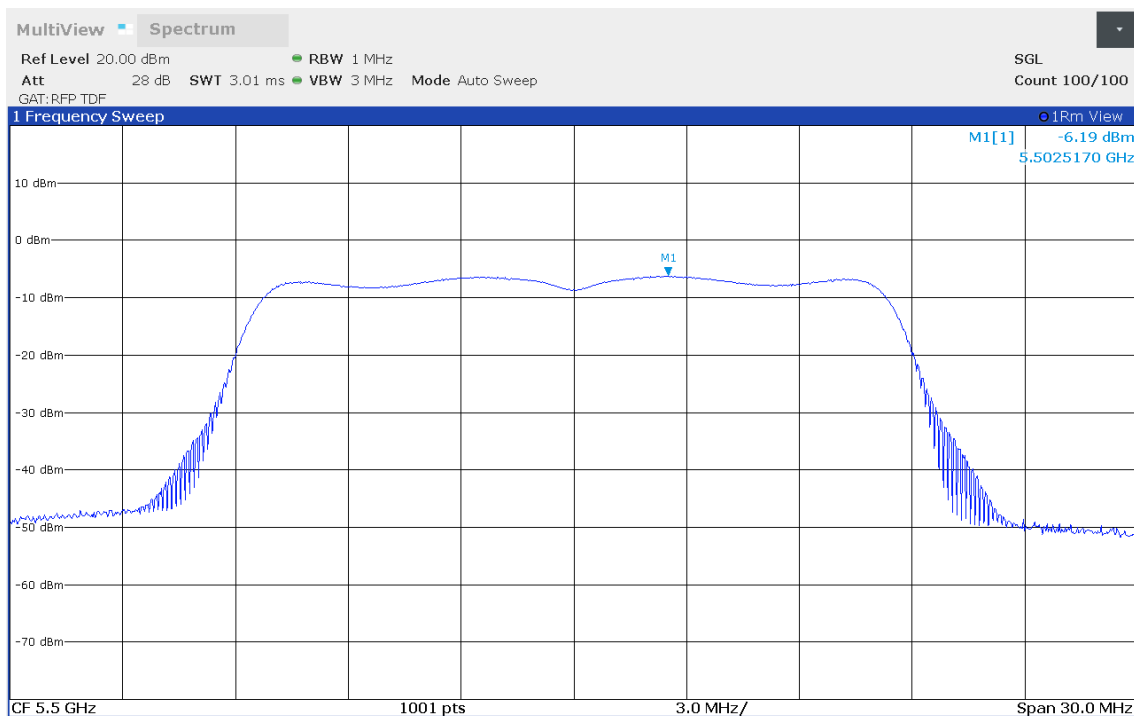
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5502.547
Spectral Density [dBm/RBW]:	-6.171
Resolution Bandwidth [MHz]:	1



11:50:00 09.10.2019

Maximum Power Spectral Density

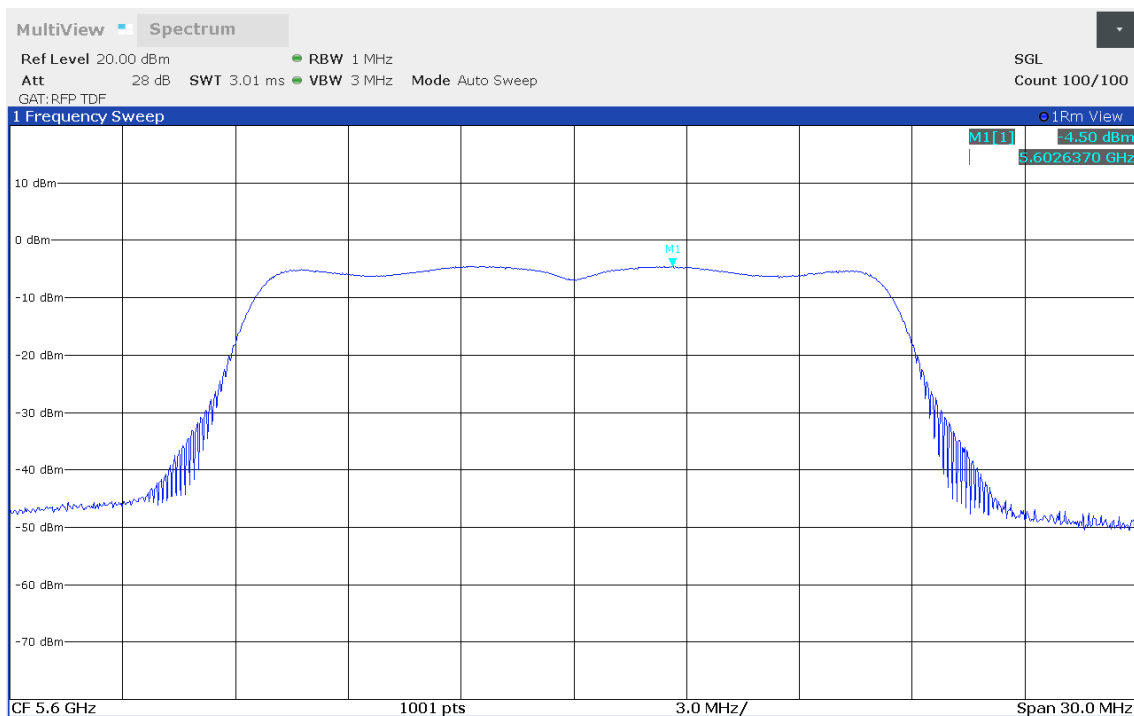
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 100, 5500 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5502.517
 Spectral Density [dBm/RBW]: -6.191
 Resolution Bandwidth [MHz]: 1



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Maximum Power Spectral Density

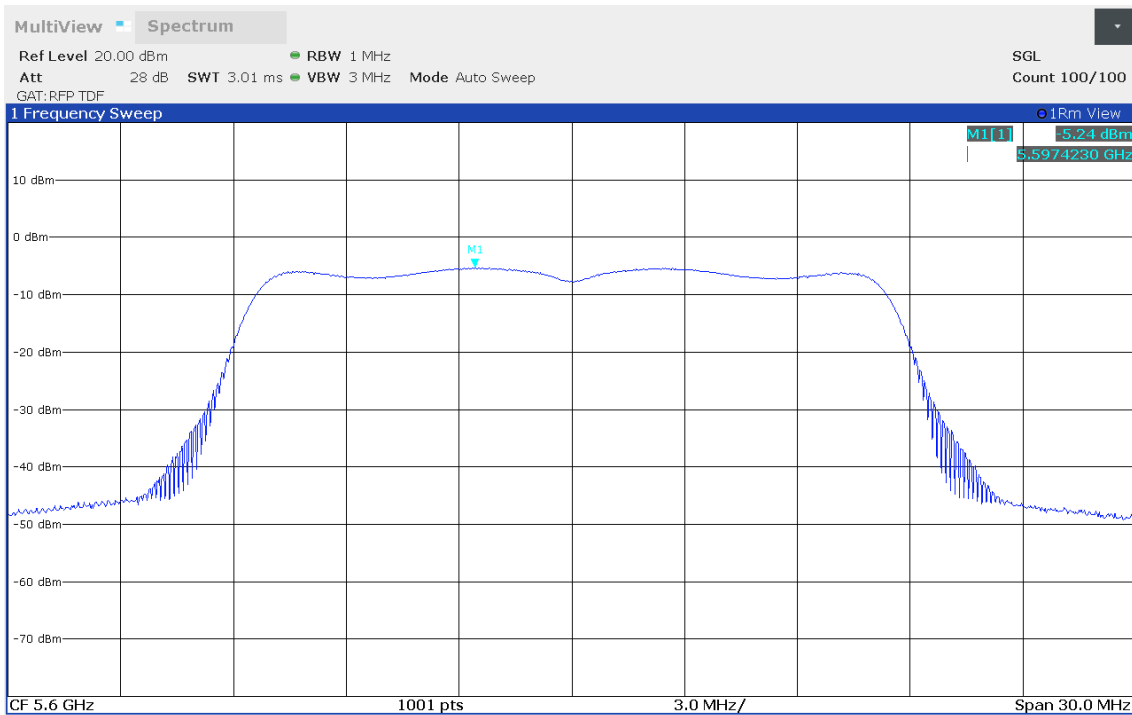
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5602.637
Spectral Density [dBm/RBW]:	-4.502
Resolution Bandwidth [MHz]:	1



11:50:56 09.10.2019

Maximum Power Spectral Density

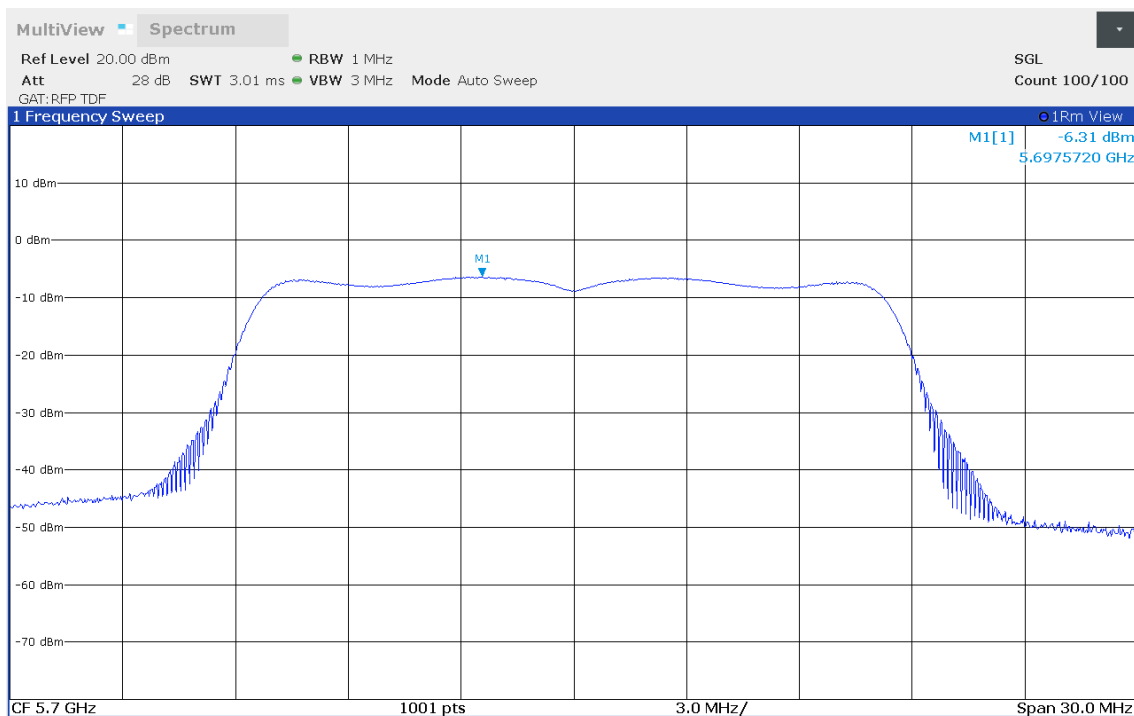
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5597.423
Spectral Density [dBm/RBW]:	-5.242
Resolution Bandwidth [MHz]:	1



11:18:53 09.10.2019

Maximum Power Spectral Density

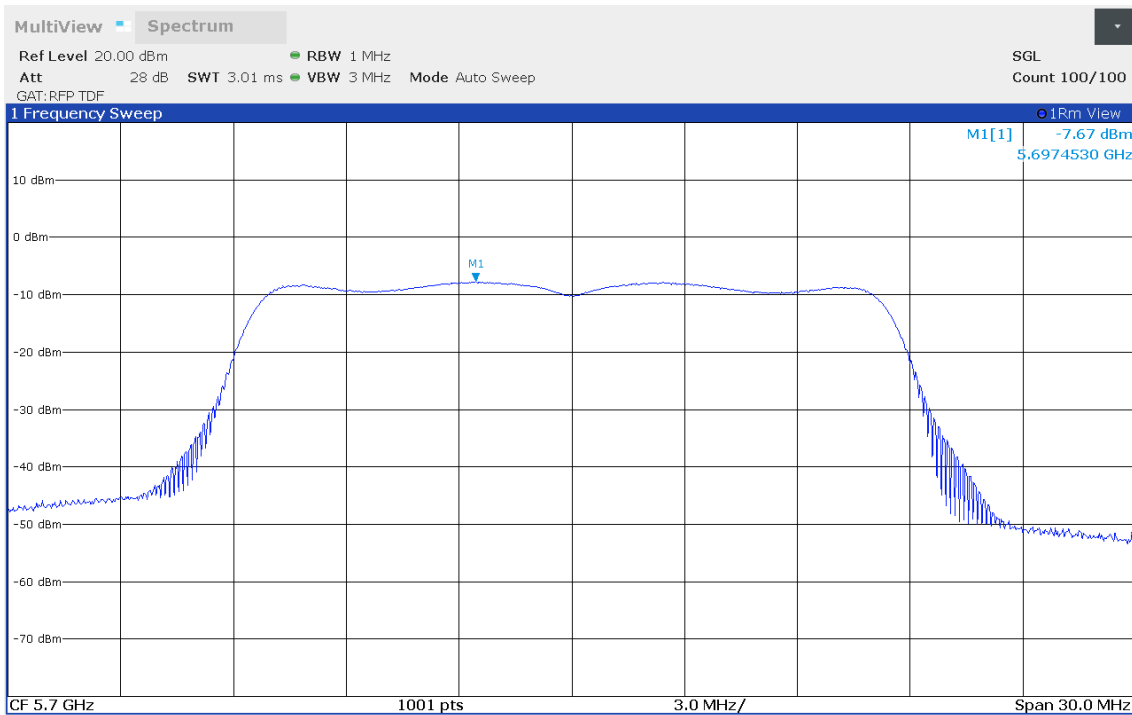
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 140, 5700 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5697.572
Spectral Density [dBm/RBW]:	-6.305
Resolution Bandwidth [MHz]:	1



11:51:46 09.10.2019

Maximum Power Spectral Density

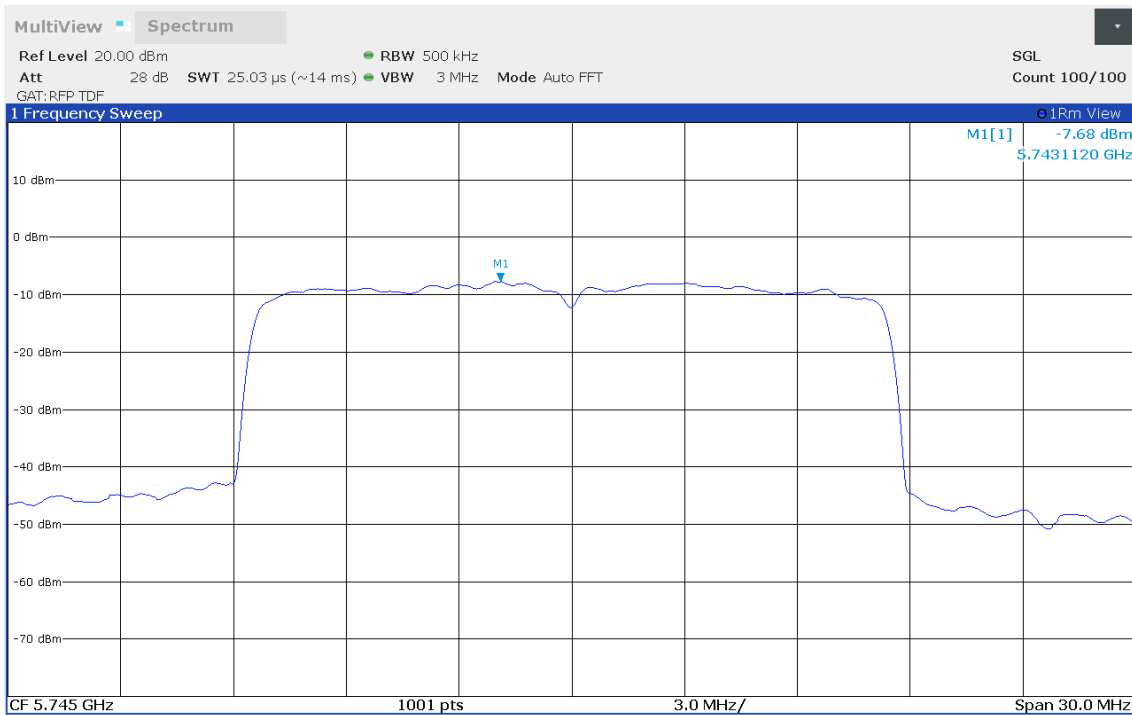
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 140, 5700 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5697.453
Spectral Density [dBm/RBW]:	-7.672
Resolution Bandwidth [MHz]:	1



11:19:41 09.10.2019

Maximum Power Spectral Density

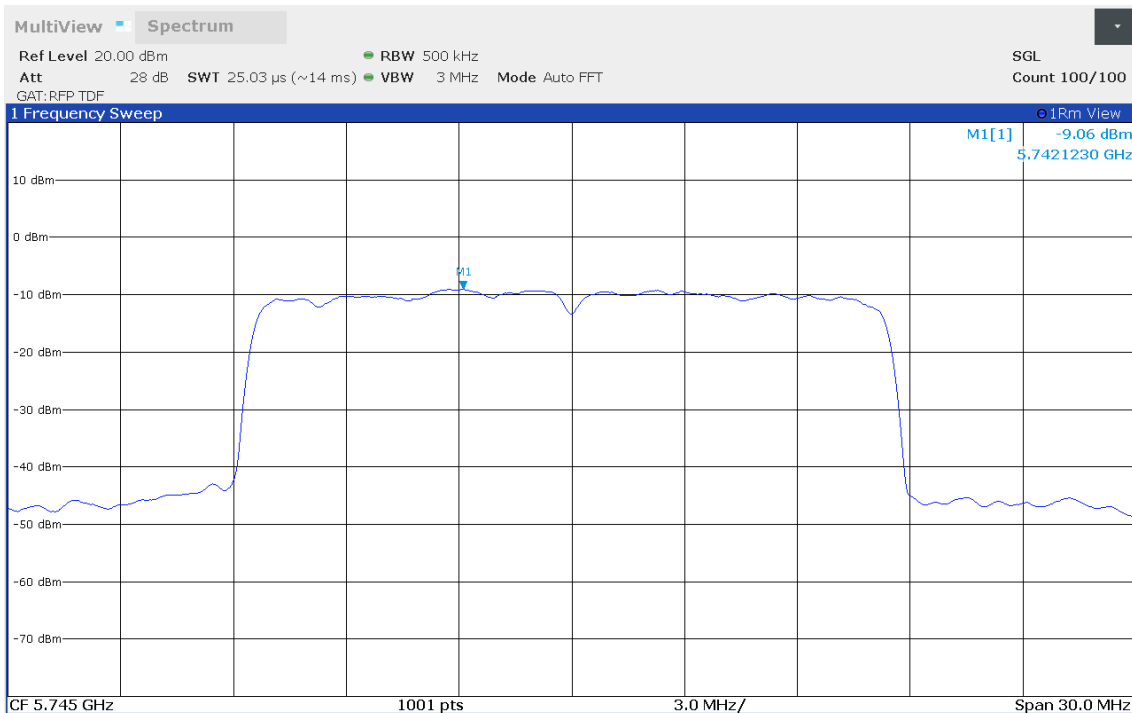
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5743.112
 Spectral Density [dBm/RBW]: -7.677
 Resolution Bandwidth [MHz]: 0.5



11:52:44 09.10.2019

Maximum Power Spectral Density

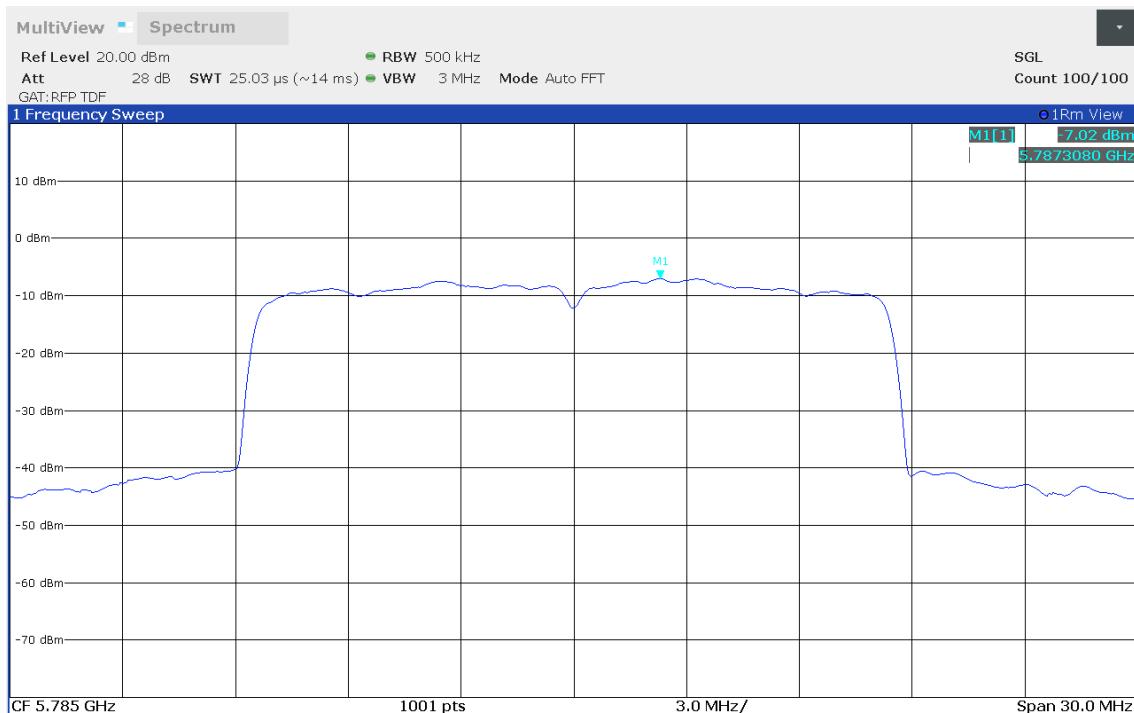
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5742.123
 Spectral Density [dBm/RBW]: -9.057
 Resolution Bandwidth [MHz]: 0.5



11:20:44 09.10.2019

Maximum Power Spectral Density

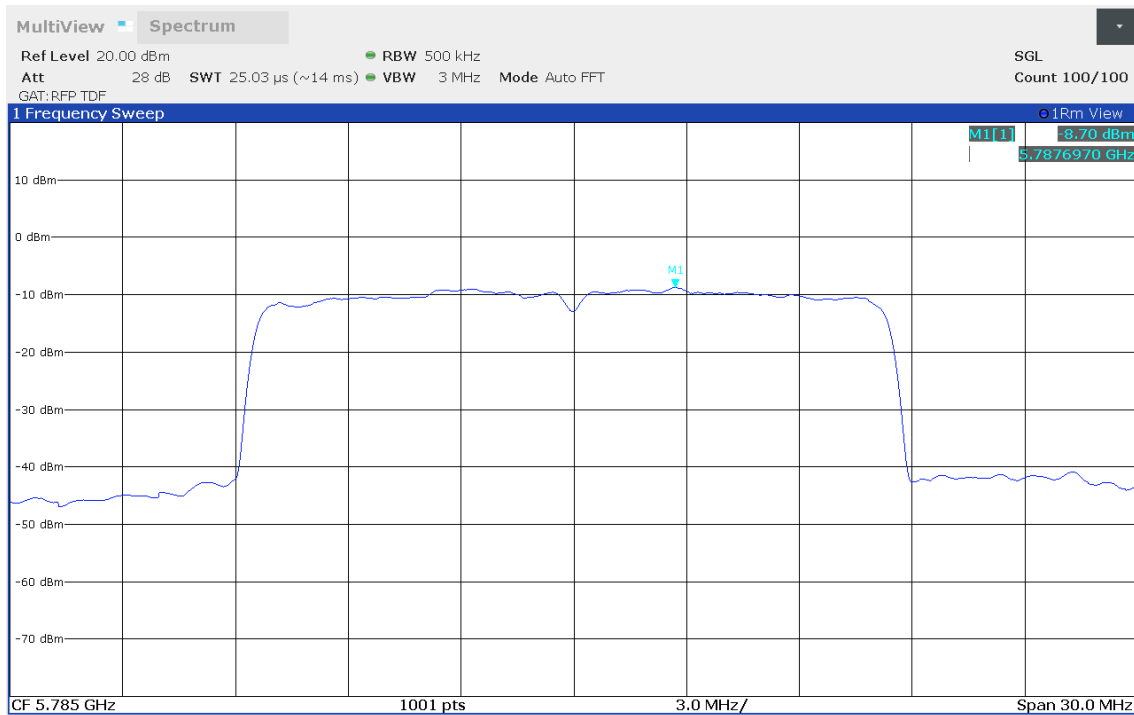
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5787.308
 Spectral Density [dBm/RBW]: -7.024
 Resolution Bandwidth [MHz]: 0.5



11:53:33 09.10.2019

Maximum Power Spectral Density

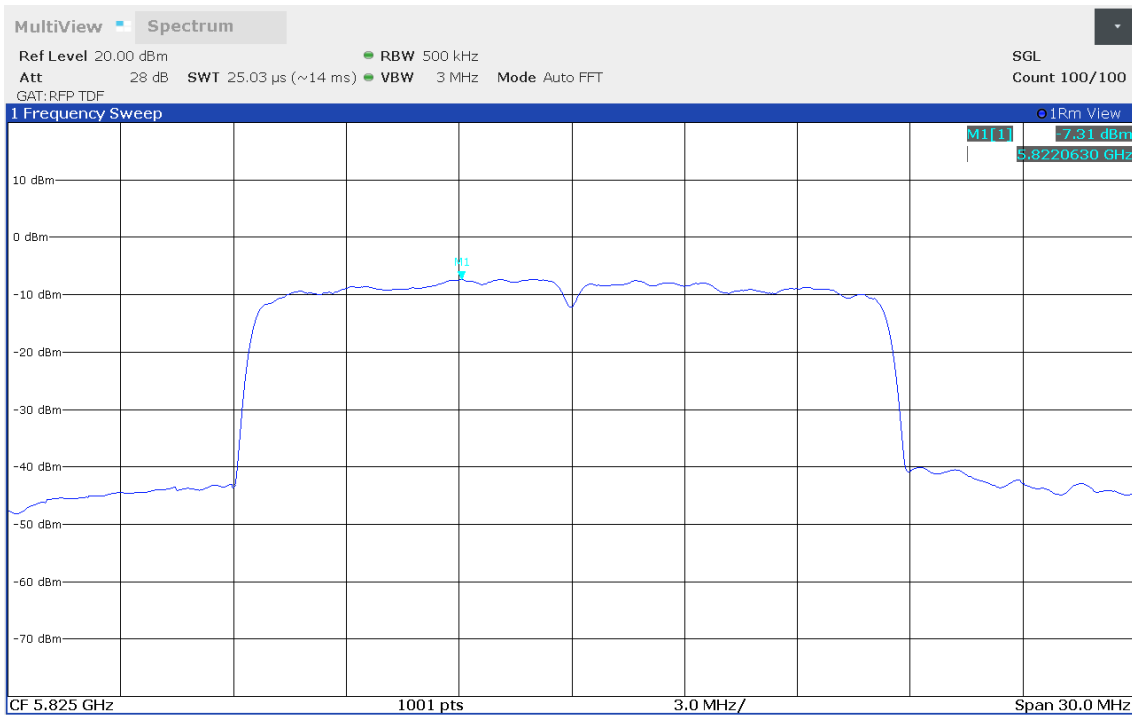
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5787.697
Spectral Density [dBm/RBW]:	-8.695
Resolution Bandwidth [MHz]:	0.5



11:22:15 09.10.2019

Maximum Power Spectral Density

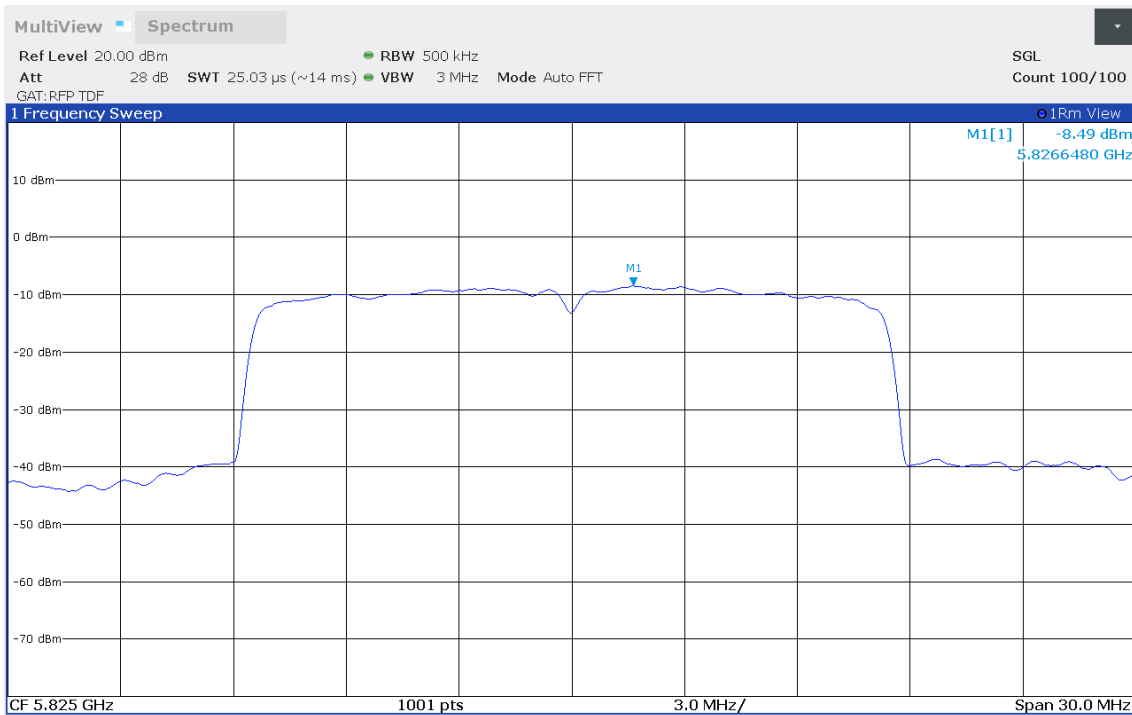
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11a, Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5822.063
Spectral Density [dBm/RBW]:	-7.314
Resolution Bandwidth [MHz]:	0.5



11:54:18 09.10.2019

Maximum Power Spectral Density

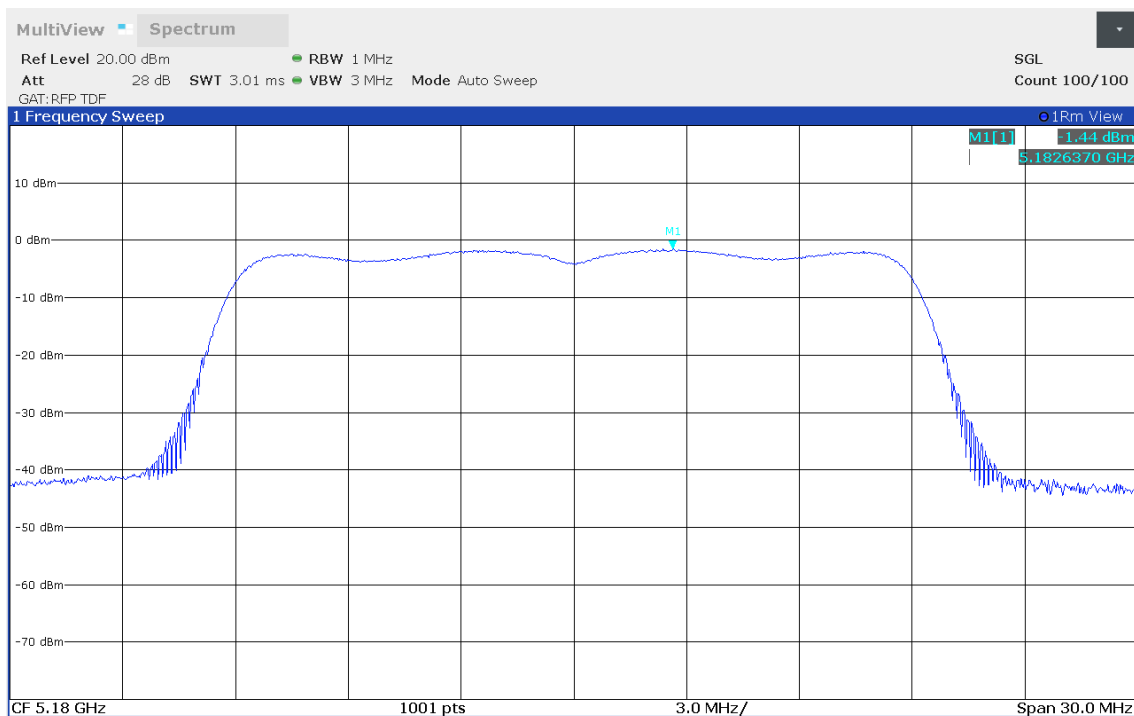
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11a, Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5826.648
 Spectral Density [dBm/RBW]: -8.492
 Resolution Bandwidth [MHz]: 0.5



11:23:02 09.10.2019

Maximum Power Spectral Density

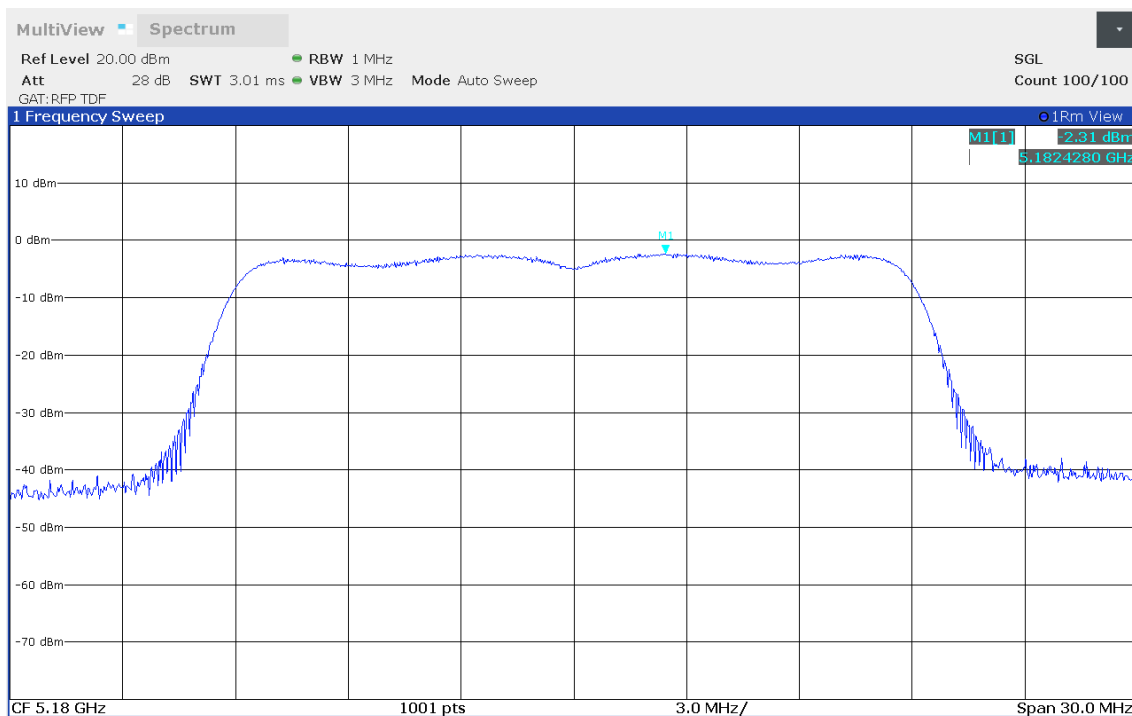
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5182.637
Spectral Density [dBm/RBW]:	-1.441
Resolution Bandwidth [MHz]:	1



10:27:26 09.10.2019

Maximum Power Spectral Density

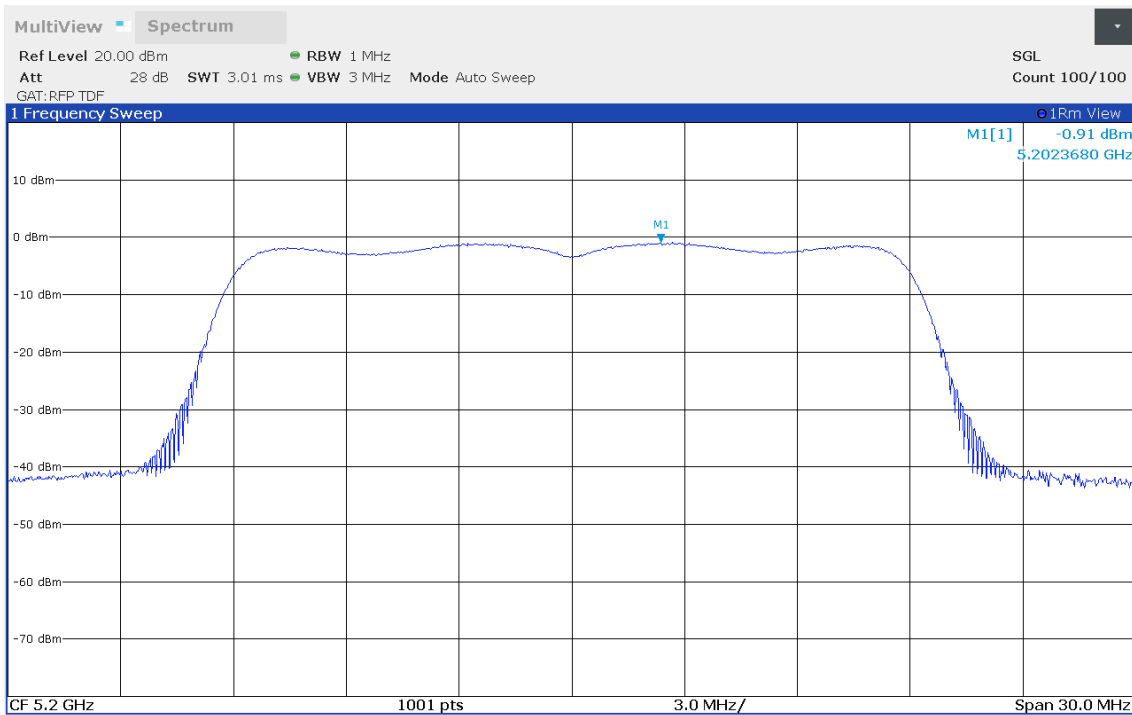
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5182.428
Spectral Density [dBm/RBW]:	-2.315
Resolution Bandwidth [MHz]:	1



10:06:44 09.10.2019

Maximum Power Spectral Density

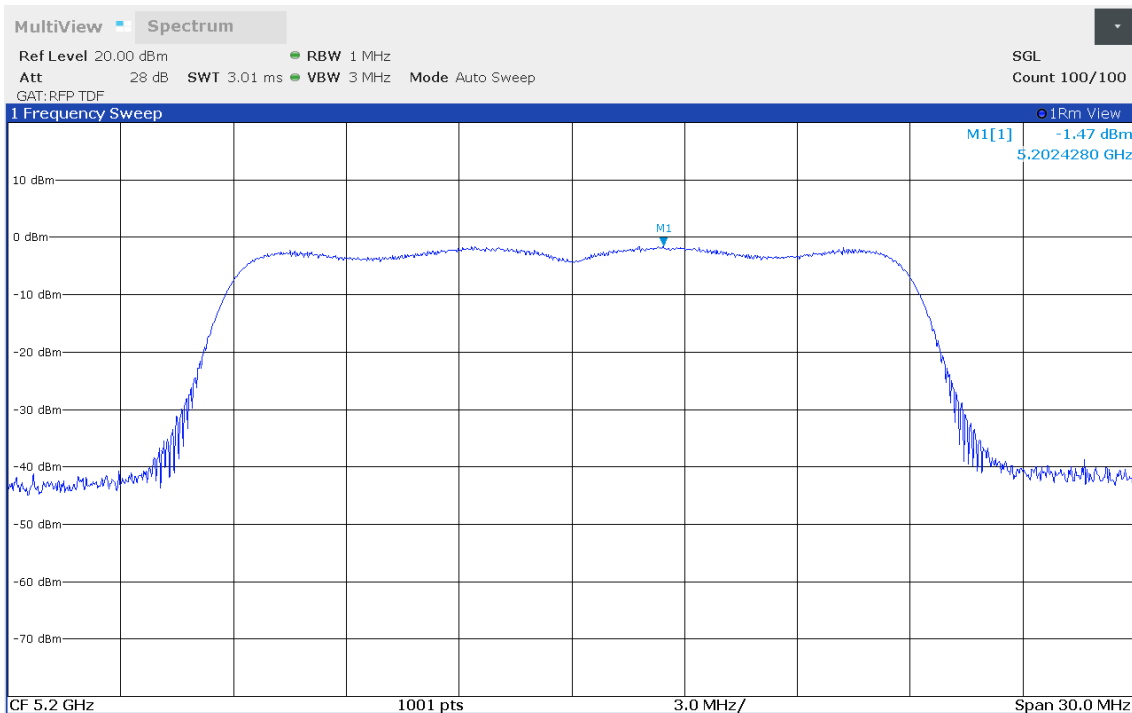
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 40, 5200 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5202.368
 Spectral Density [dBm/RBW]: -0.914
 Resolution Bandwidth [MHz]: 1



10:28:17 09.10.2019

Maximum Power Spectral Density

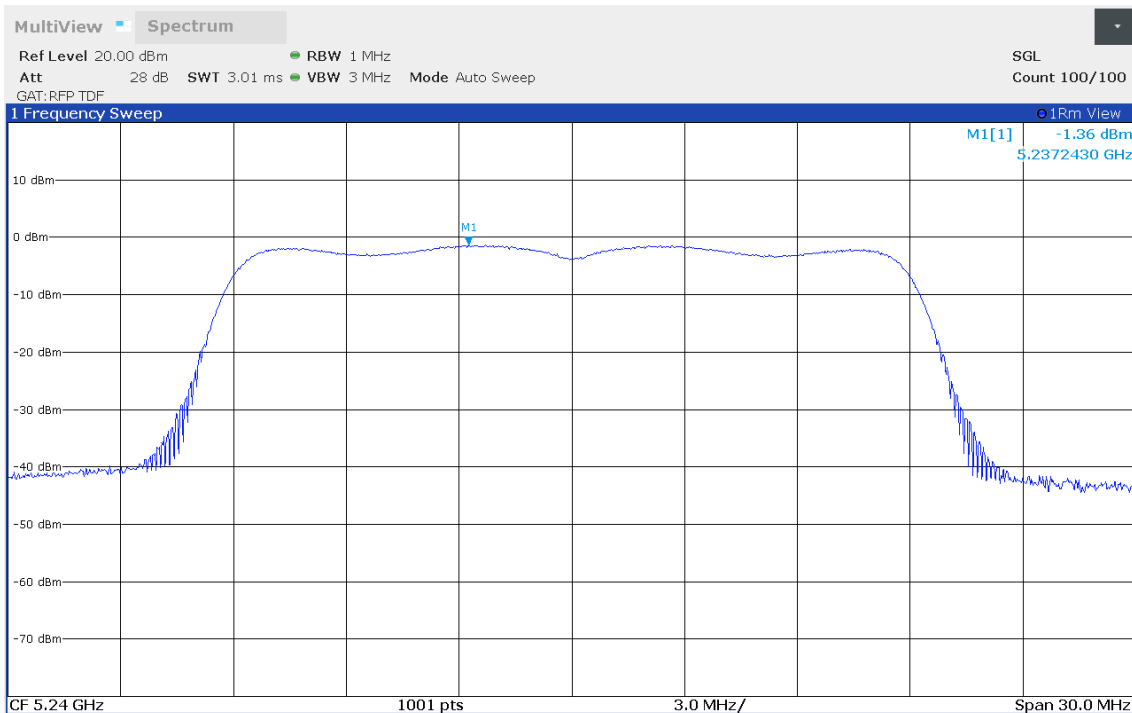
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 40, 5200 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5202.428
 Spectral Density [dBm/RBW]: -1.474
 Resolution Bandwidth [MHz]: 1



10:07:43 09.10.2019

Maximum Power Spectral Density

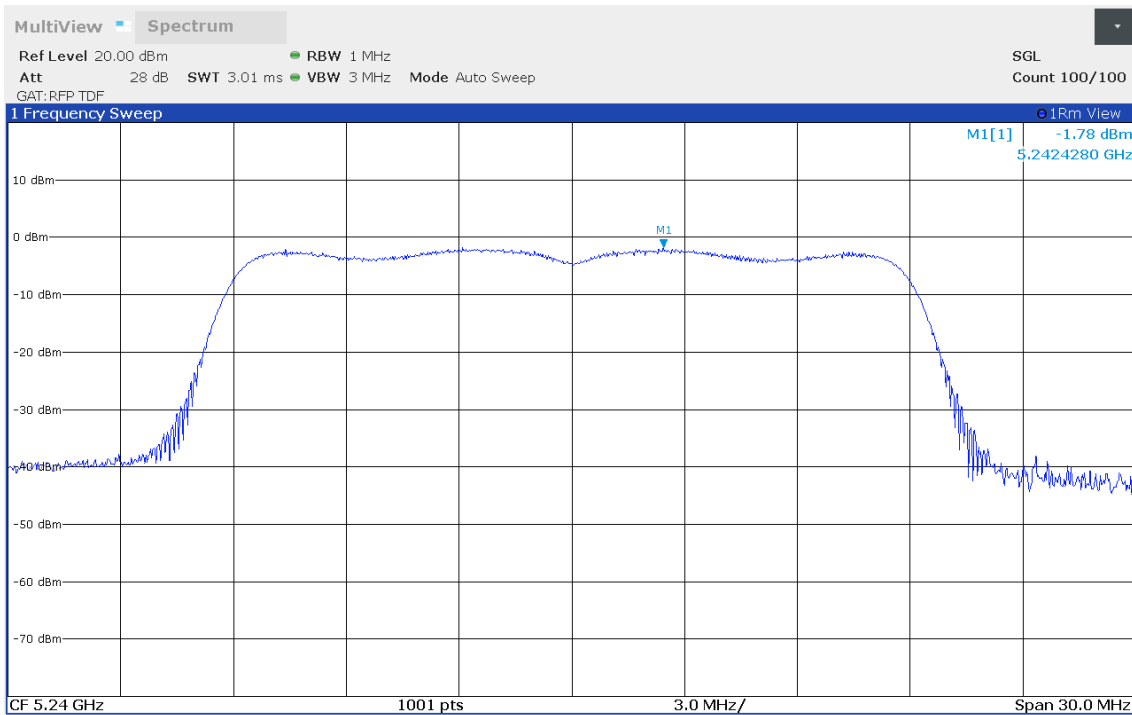
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 48, 5240 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5237.243
 Spectral Density [dBm/RBW]: -1.361
 Resolution Bandwidth [MHz]: 1



10:29:12 09.10.2019

Maximum Power Spectral Density

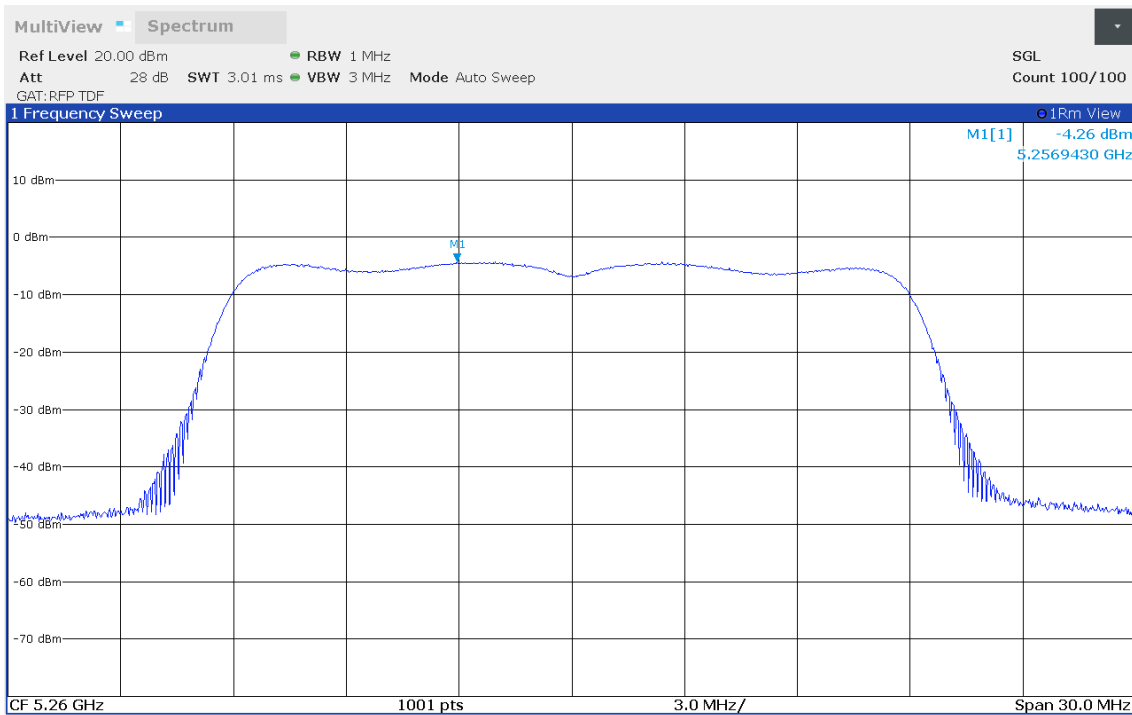
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 48, 5240 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5242.428
 Spectral Density [dBm/RBW]: -1.775
 Resolution Bandwidth [MHz]: 1



10:08:41 09.10.2019

Maximum Power Spectral Density

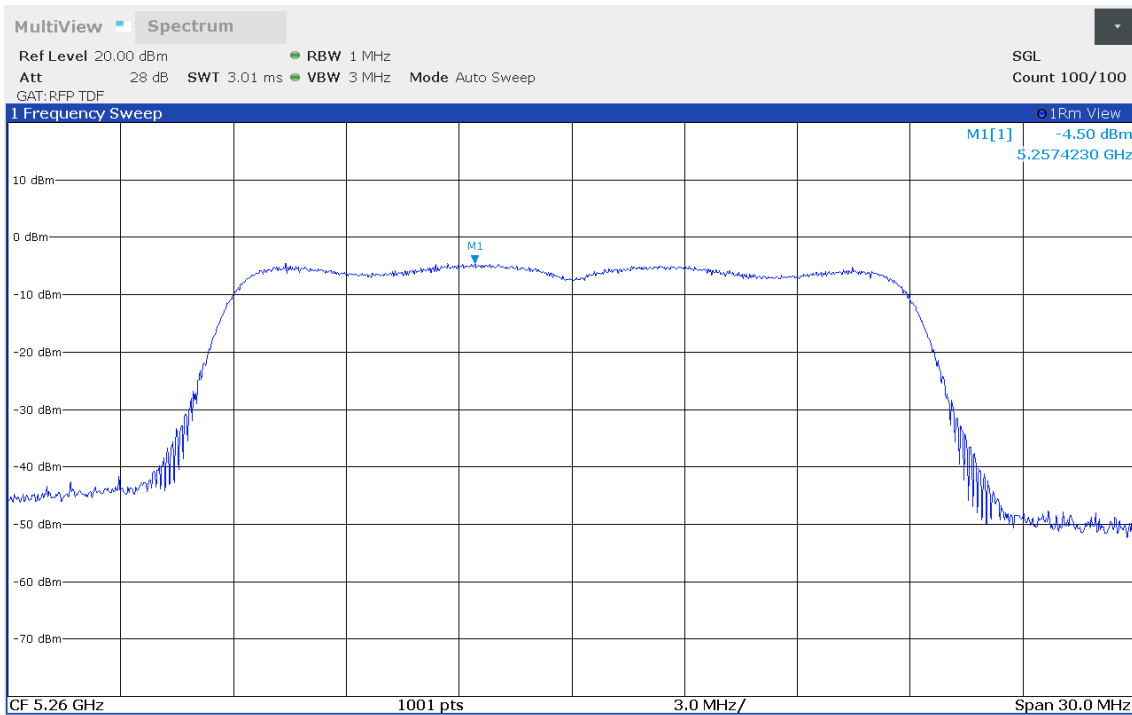
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 52, 5260 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5256.943
 Spectral Density [dBm/RBW]: -4.259
 Resolution Bandwidth [MHz]: 1



11:55:59 09.10.2019

Maximum Power Spectral Density

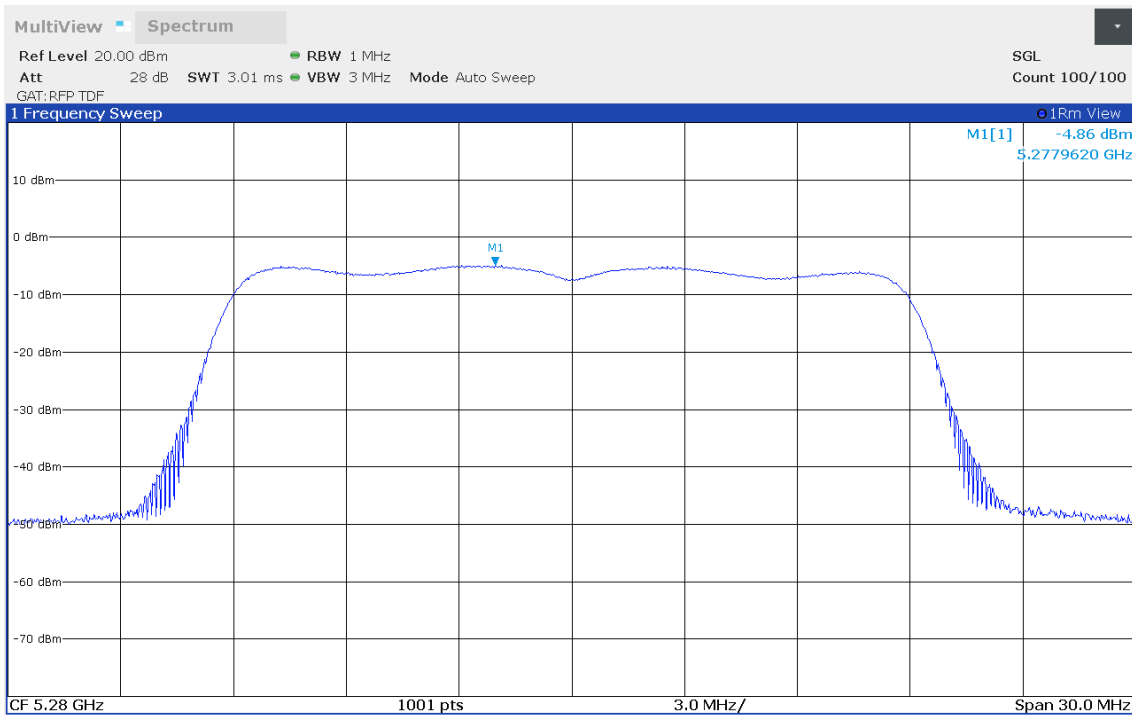
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 52, 5260 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5257.423
 Spectral Density [dBm/RBW]: -4.498
 Resolution Bandwidth [MHz]: 1



11:24:30 09.10.2019

Maximum Power Spectral Density

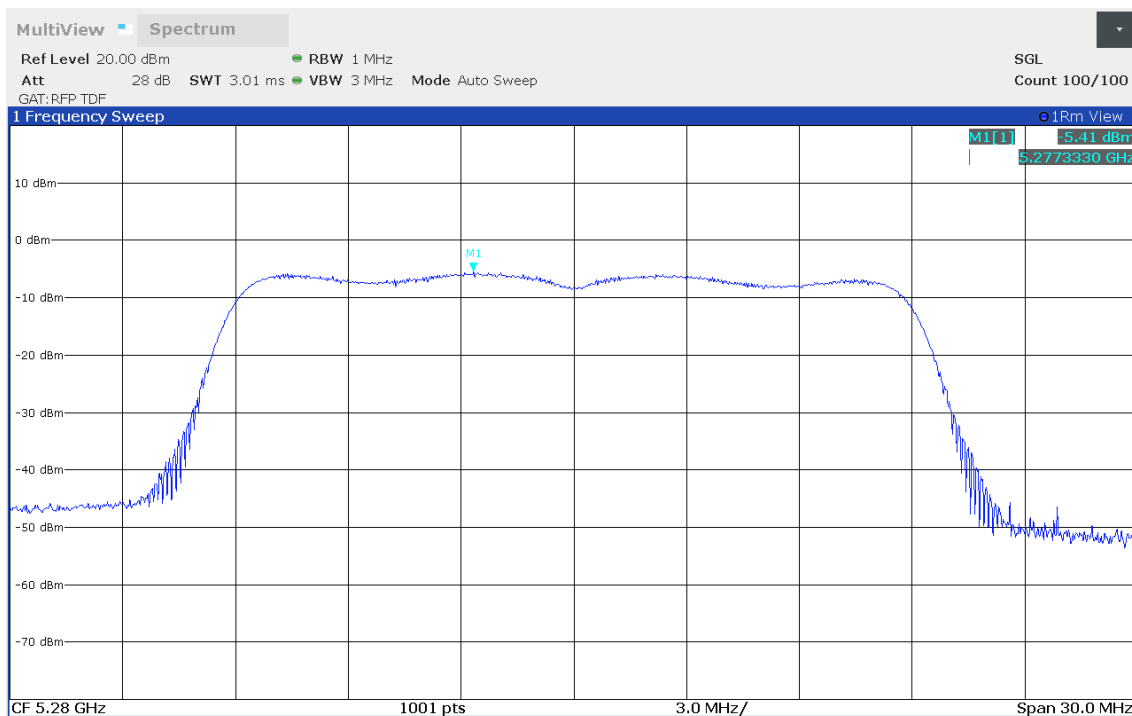
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 56, 5280 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5277.962
 Spectral Density [dBm/RBW]: -4.863
 Resolution Bandwidth [MHz]: 1



11:56:50 09.10.2019

Maximum Power Spectral Density

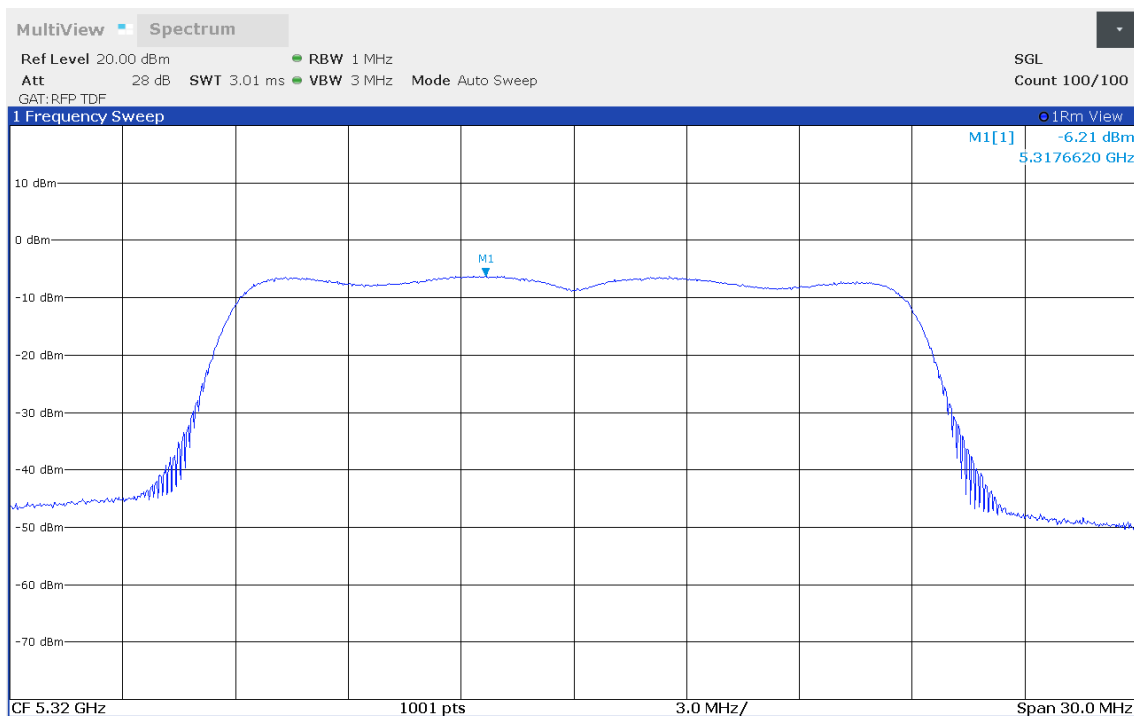
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5277.333
Spectral Density [dBm/RBW]:	-5.414
Resolution Bandwidth [MHz]:	1



11:25:15 09.10.2019

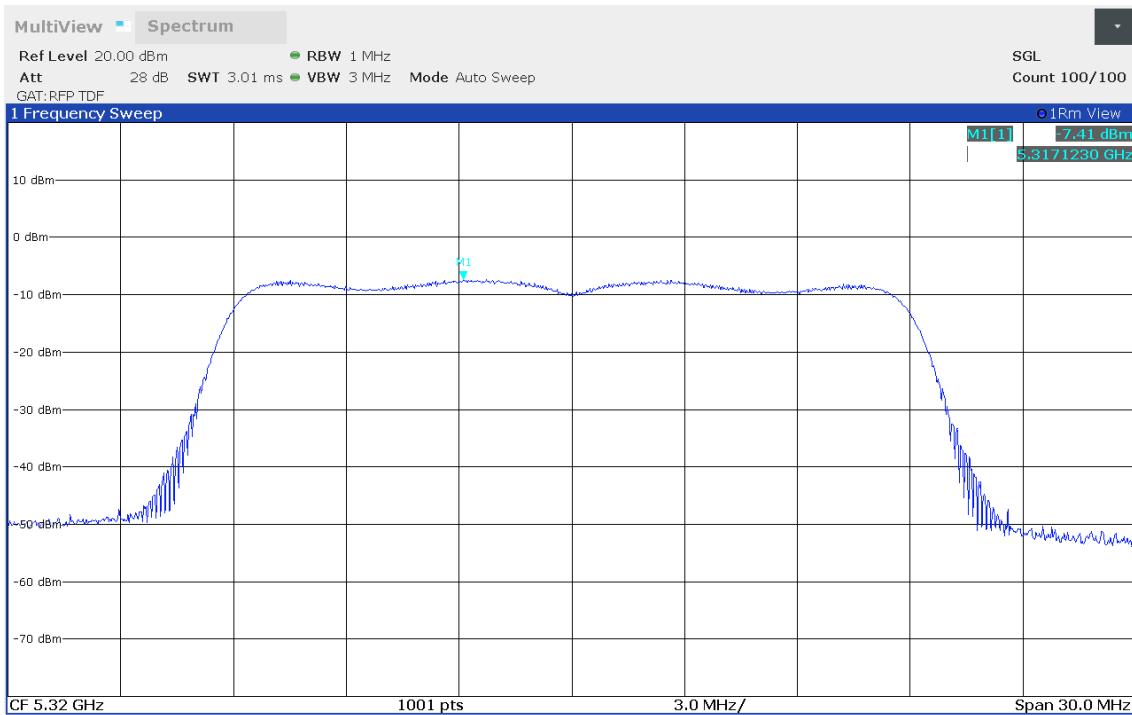
Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 64, 5320 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5317.662
 Spectral Density [dBm/RBW]: -6.212
 Resolution Bandwidth [MHz]: 1



Maximum Power Spectral Density

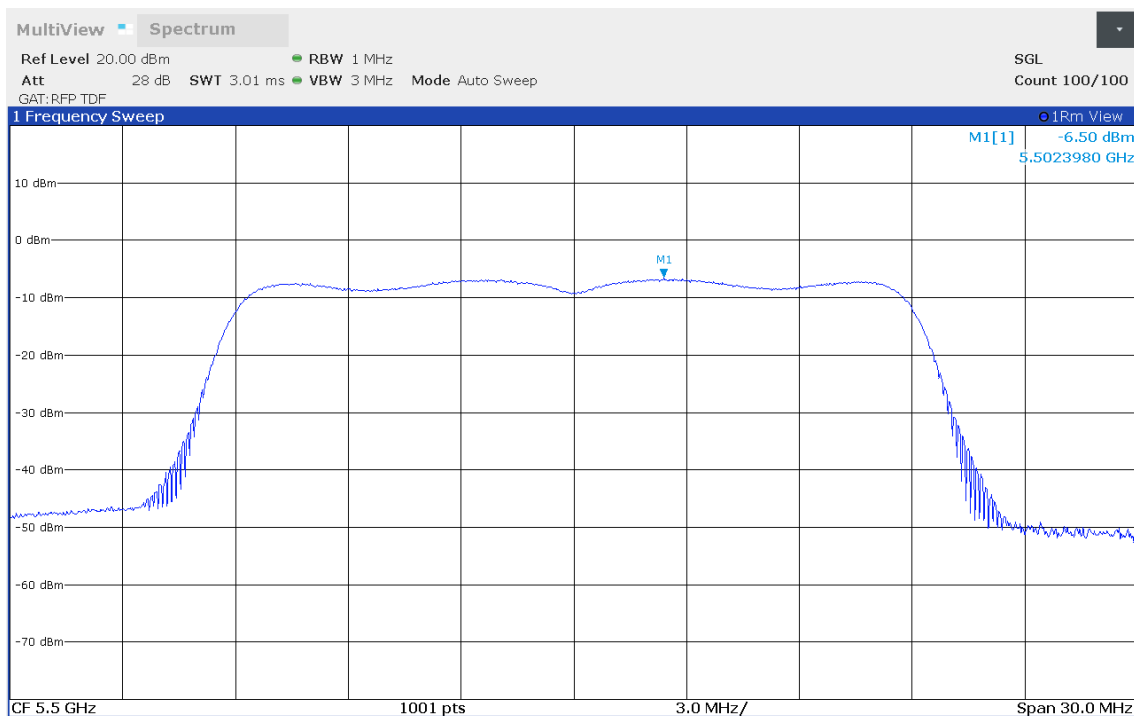
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5317.123
Spectral Density [dBm/RBW]:	-7.408
Resolution Bandwidth [MHz]:	1



11:26:02 09.10.2019

Maximum Power Spectral Density

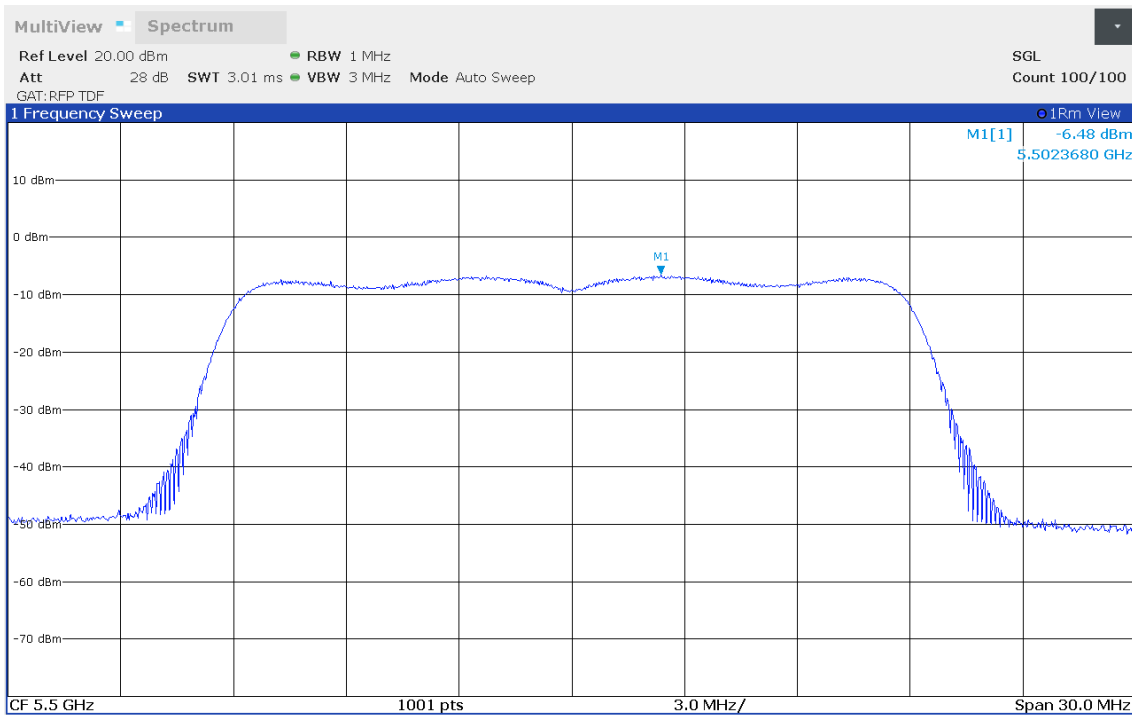
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5502.398
Spectral Density [dBm/RBW]:	-6.502
Resolution Bandwidth [MHz]:	1



11:58:38 09.10.2019

Maximum Power Spectral Density

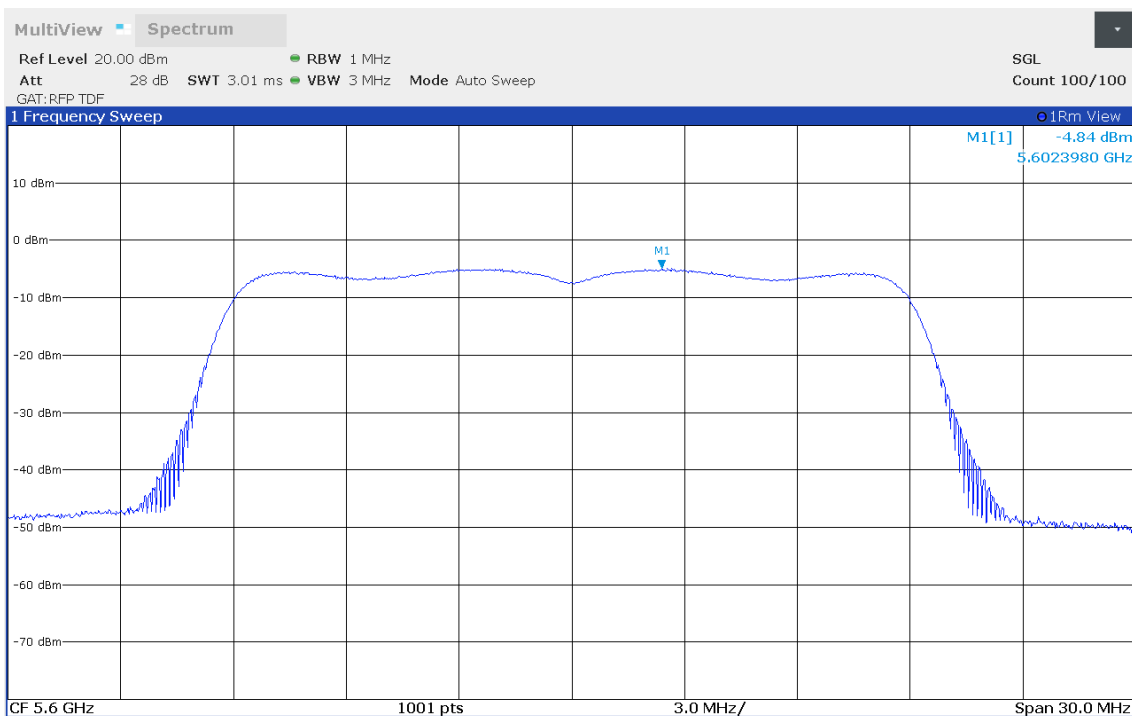
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 100, 5500 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5502.368
 Spectral Density [dBm/RBW]: -6.485
 Resolution Bandwidth [MHz]: 1



11:26:52 09.10.2019

Maximum Power Spectral Density

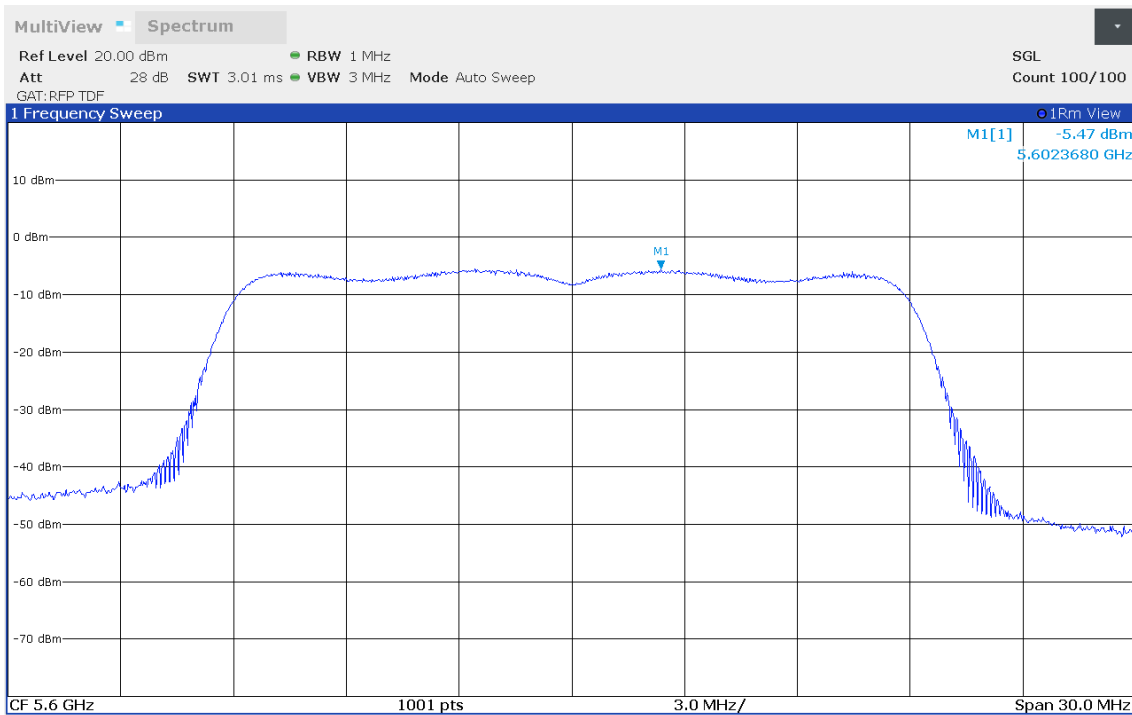
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5602.398
Spectral Density [dBm/RBW]:	-4.840
Resolution Bandwidth [MHz]:	1



11:59:31 09.10.2019

Maximum Power Spectral Density

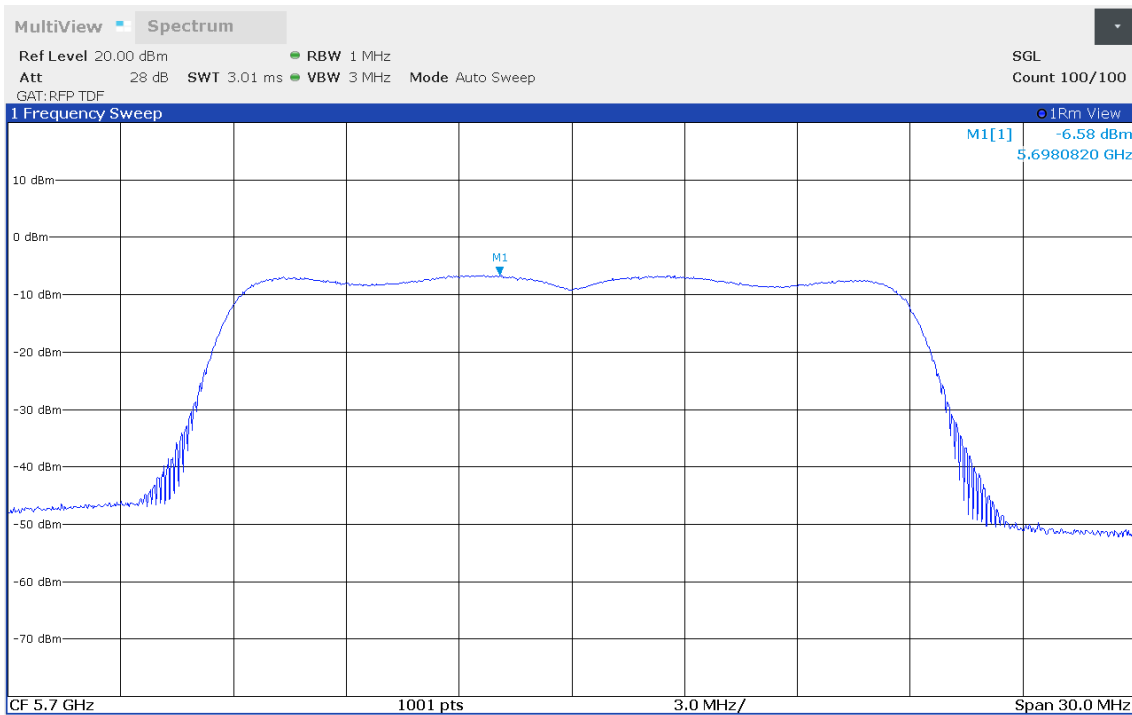
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5602.368
Spectral Density [dBm/RBW]:	-5.475
Resolution Bandwidth [MHz]:	1



11:27:47 09.10.2019

Maximum Power Spectral Density

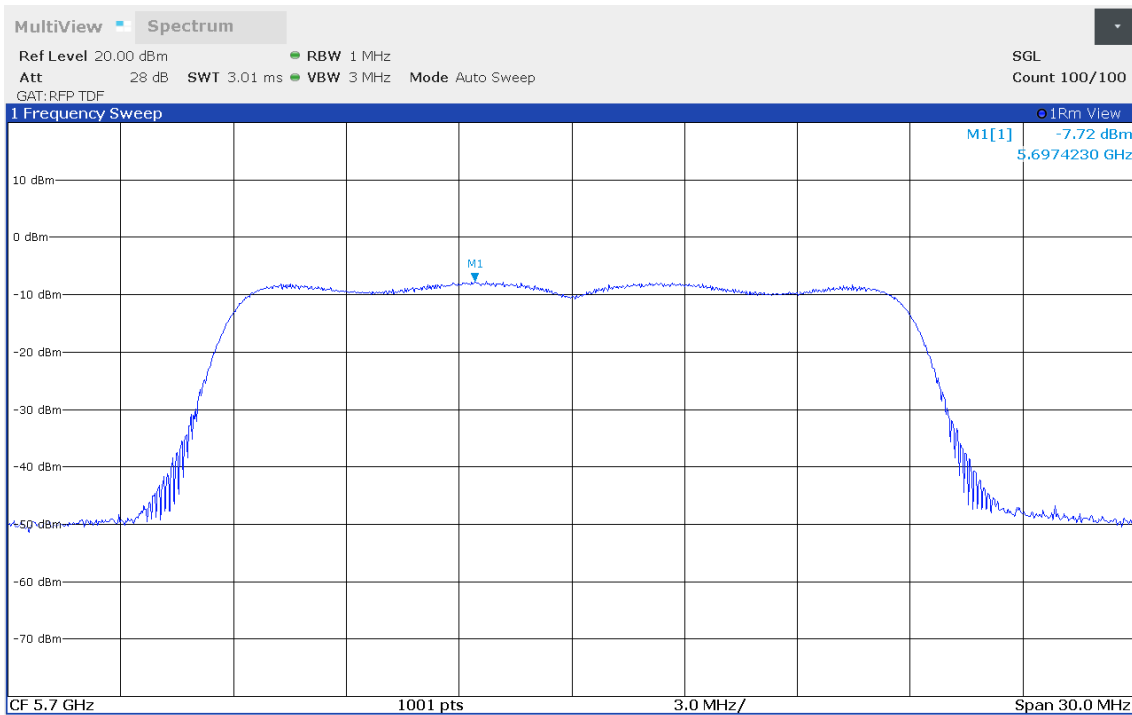
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 140, 5700 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
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 Spectral Density [dBm/RBW]: -6.578
 Resolution Bandwidth [MHz]: 1



12:00:21 09.10.2019

Maximum Power Spectral Density

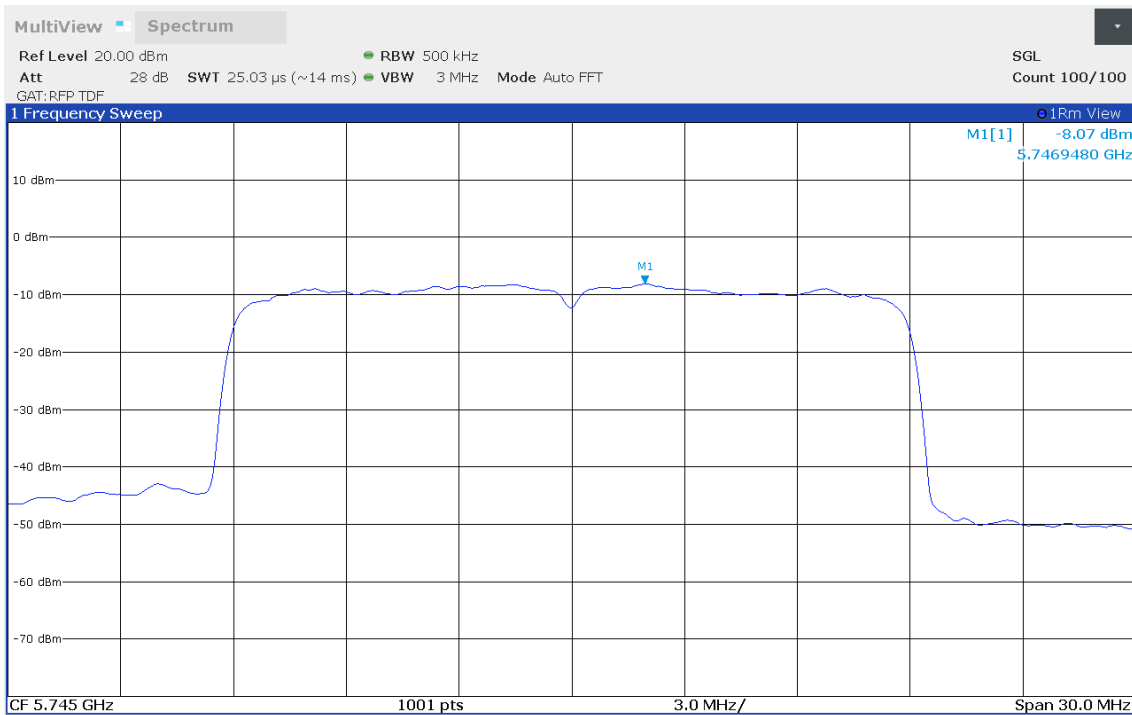
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 140, 5700 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5697.423
 Spectral Density [dBm/RBW]: -7.717
 Resolution Bandwidth [MHz]: 1



11:28:38 09.10.2019

Maximum Power Spectral Density

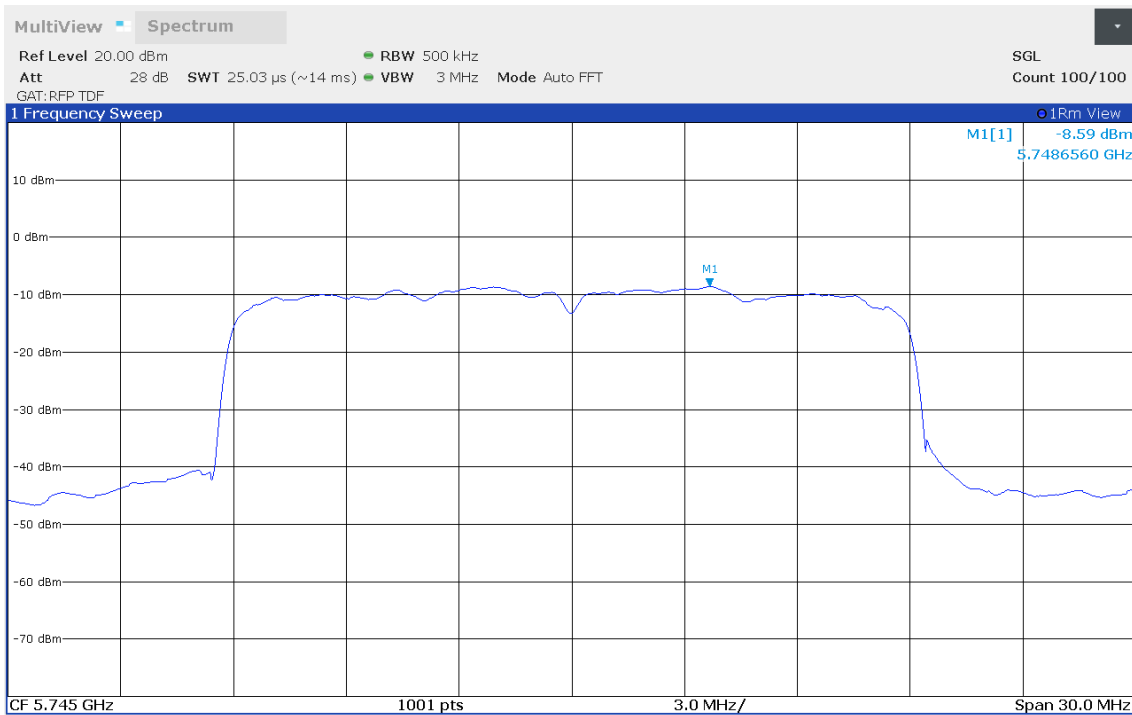
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5746.948
 Spectral Density [dBm/RBW]: -8.071
 Resolution Bandwidth [MHz]: 0.5



12:01:15 09.10.2019

Maximum Power Spectral Density

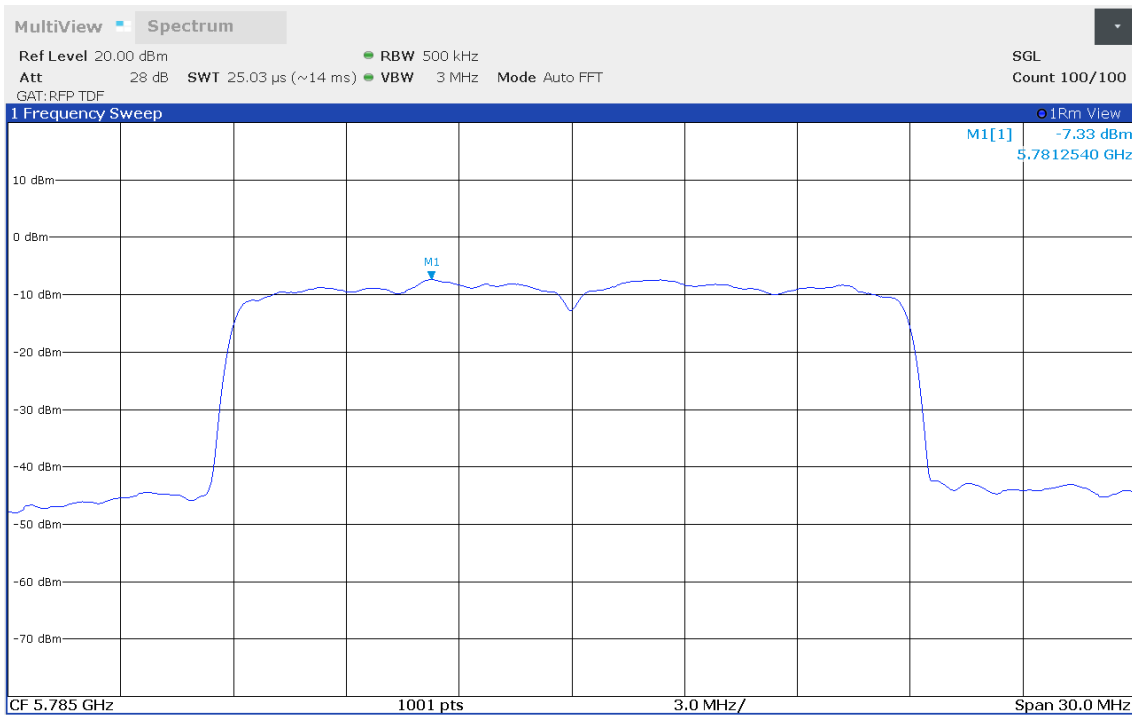
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5748.656
 Spectral Density [dBm/RBW]: -8.586
 Resolution Bandwidth [MHz]: 0.5



11:29:29 09.10.2019

Maximum Power Spectral Density

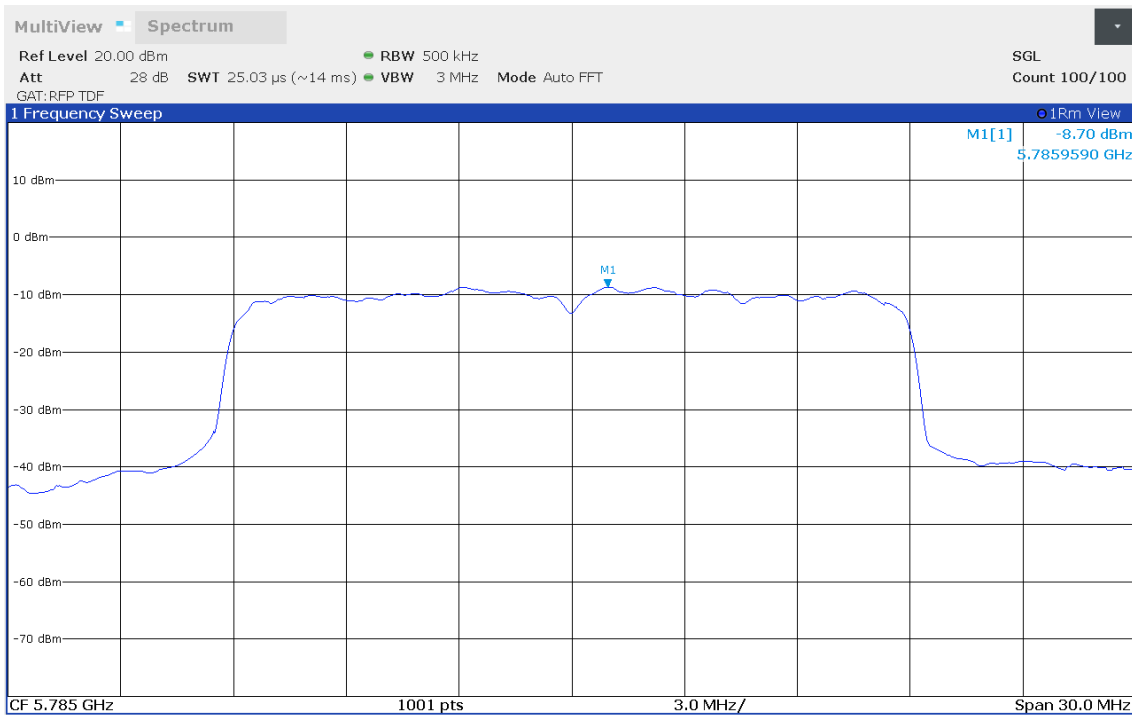
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5781.254
 Spectral Density [dBm/RBW]: -7.327
 Resolution Bandwidth [MHz]: 0.5



12:02:05 09.10.2019

Maximum Power Spectral Density

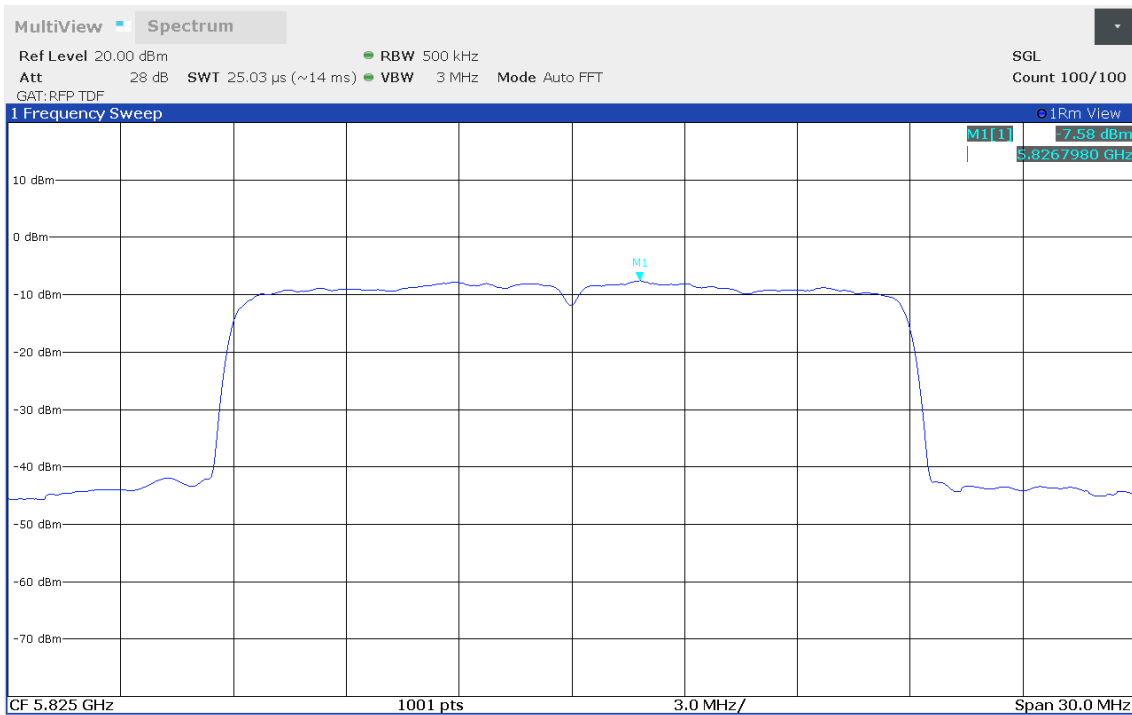
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5785.959
 Spectral Density [dBm/RBW]: -8.701
 Resolution Bandwidth [MHz]: 0.5



11:30:16 09.10.2019

Maximum Power Spectral Density

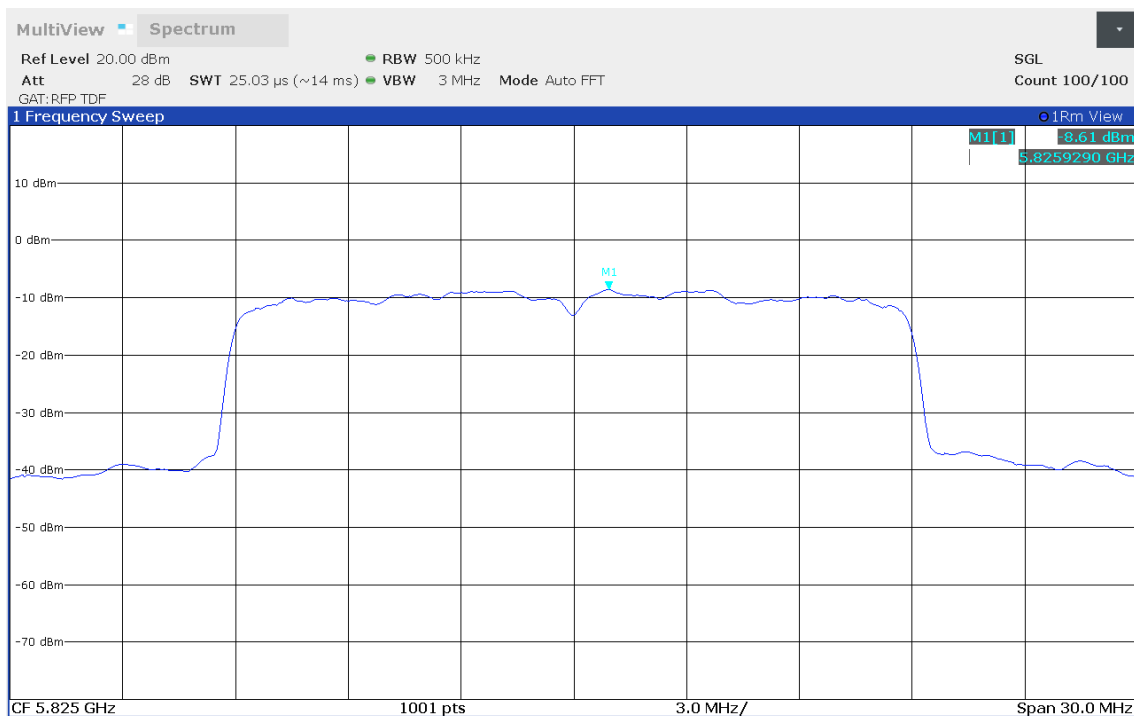
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11n (HT20), Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5826.798
Spectral Density [dBm/RBW]:	-7.585
Resolution Bandwidth [MHz]:	0.5



12:02:52 09.10.2019

Maximum Power Spectral Density

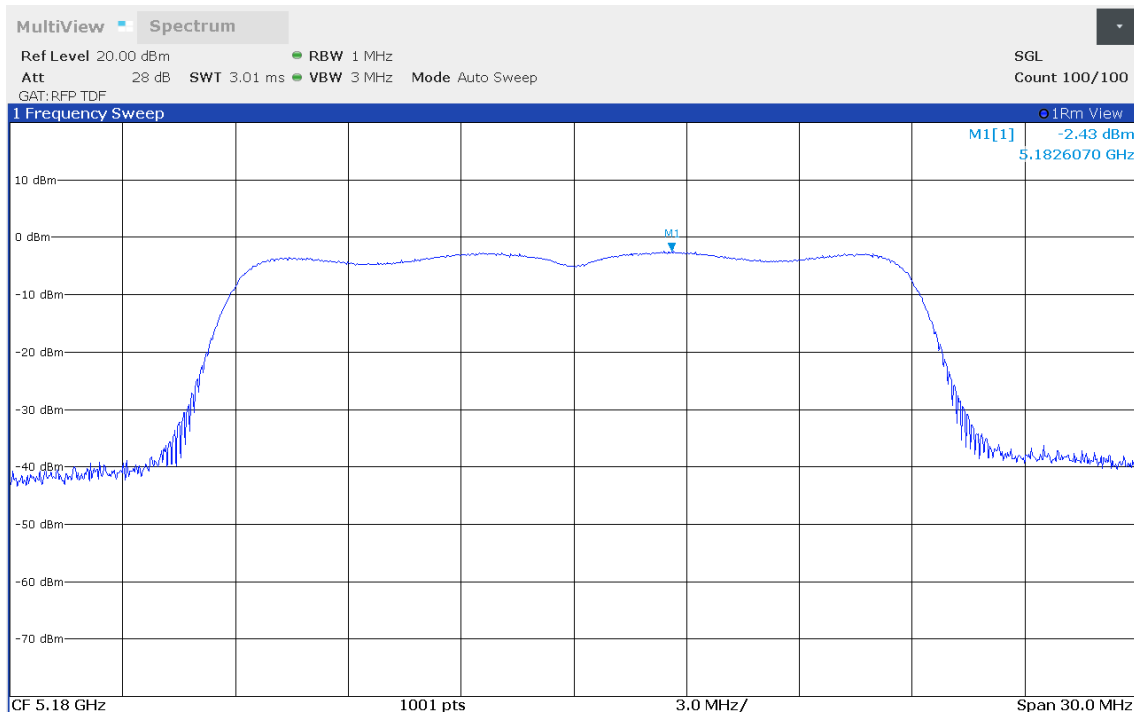
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5825.929
 Spectral Density [dBm/RBW]: -8.611
 Resolution Bandwidth [MHz]: 0.5



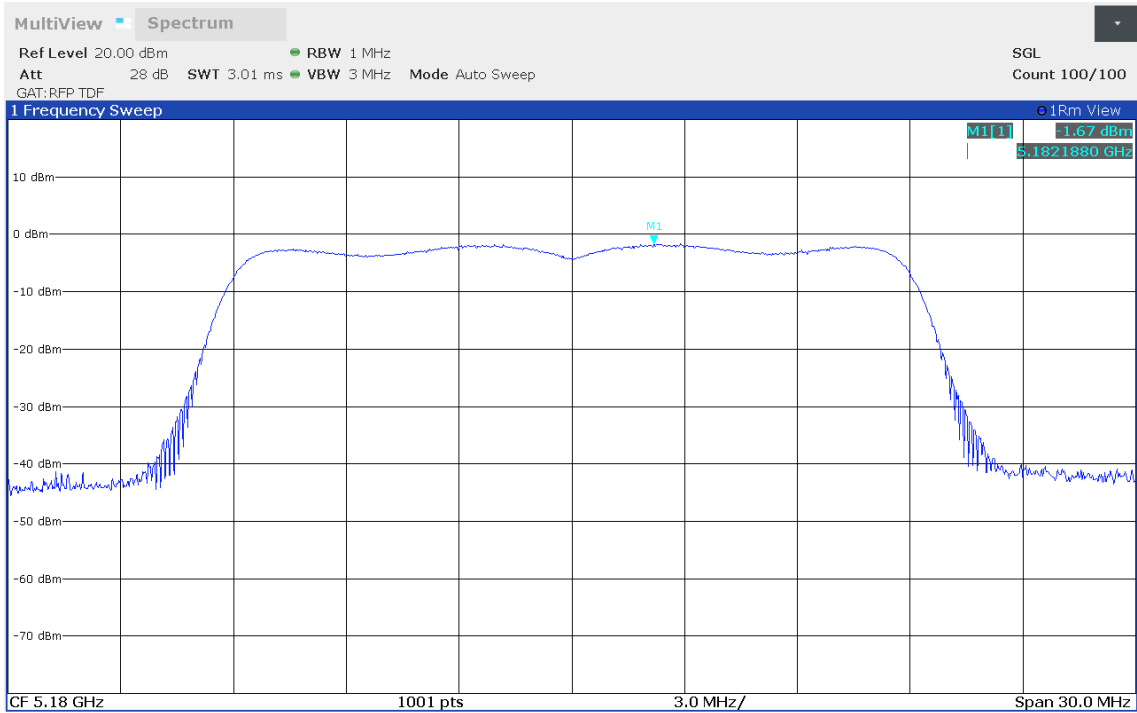
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 36, 5180 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5182.607
 Spectral Density 1 [dBm/RBW]: -2.431
 Maximum Frequency 2 [MHz]: 5182.188
 Spectral Density 2 [dBm/RBW]: -1.666
 Total Spectral Density [dBm/RBW]: 0.979
 Resolution Bandwidth [MHz]: 1



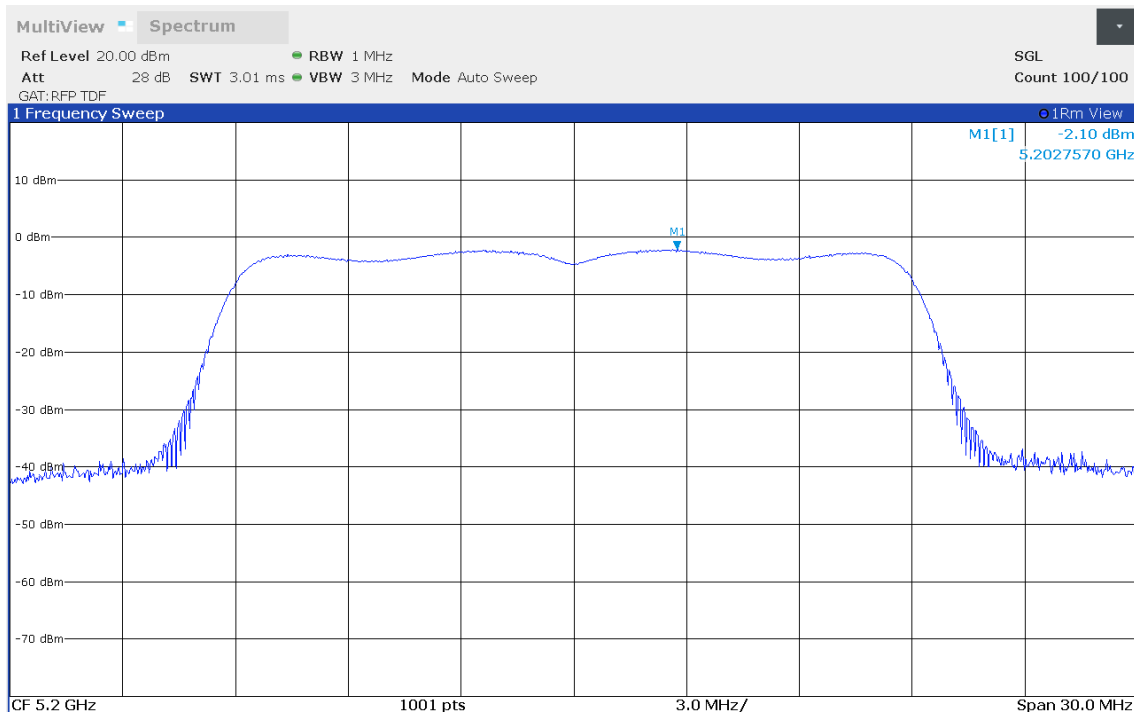
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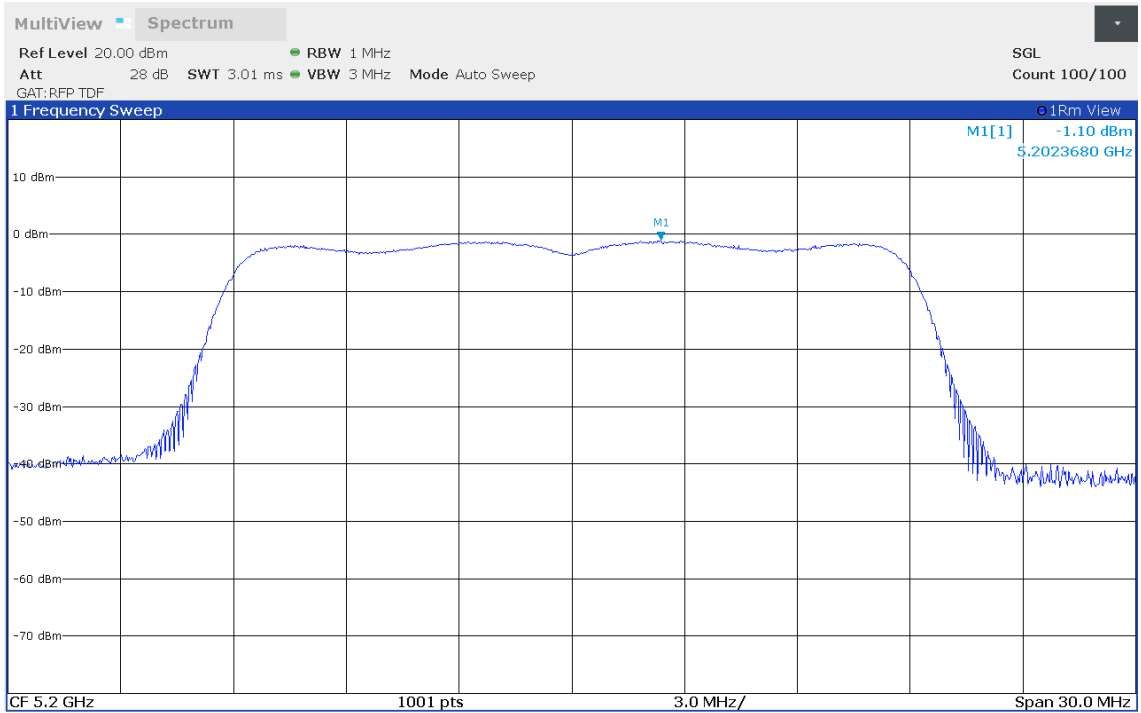
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 40, 5200 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5202.757
 Spectral Density 1 [dBm/RBW]: -2.101
 Maximum Frequency 2 [MHz]: 5202.368
 Spectral Density 2 [dBm/RBW]: -1.096
 Total Spectral Density [dBm/RBW]: 1.441
 Resolution Bandwidth [MHz]: 1



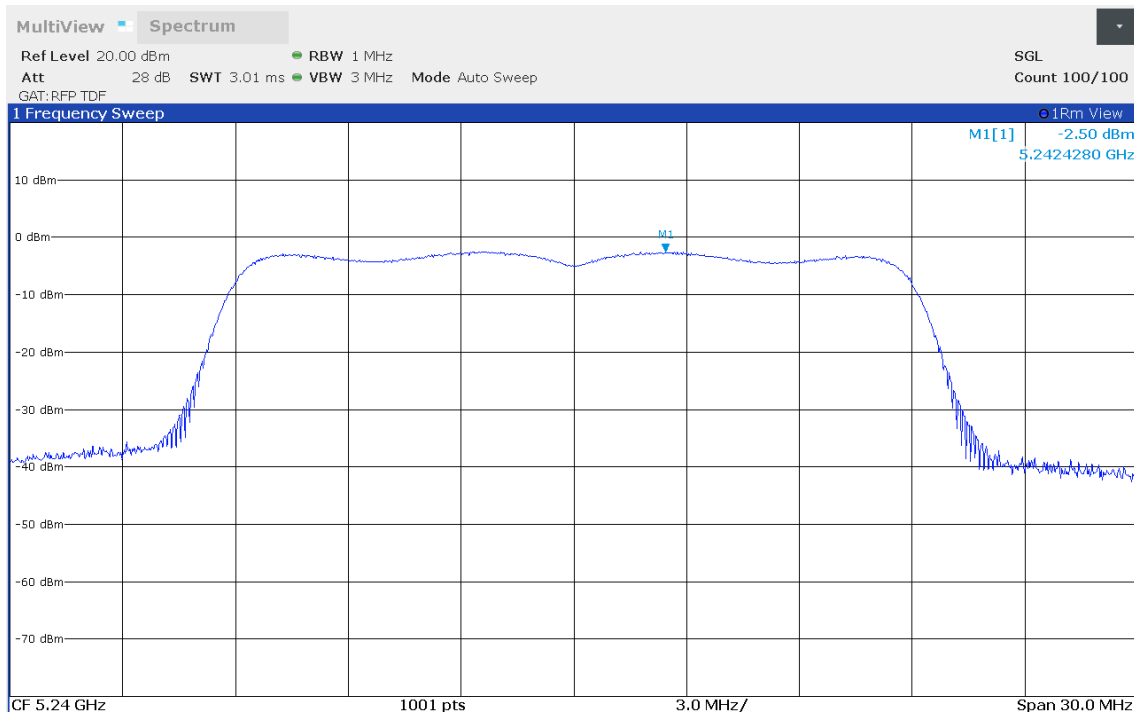
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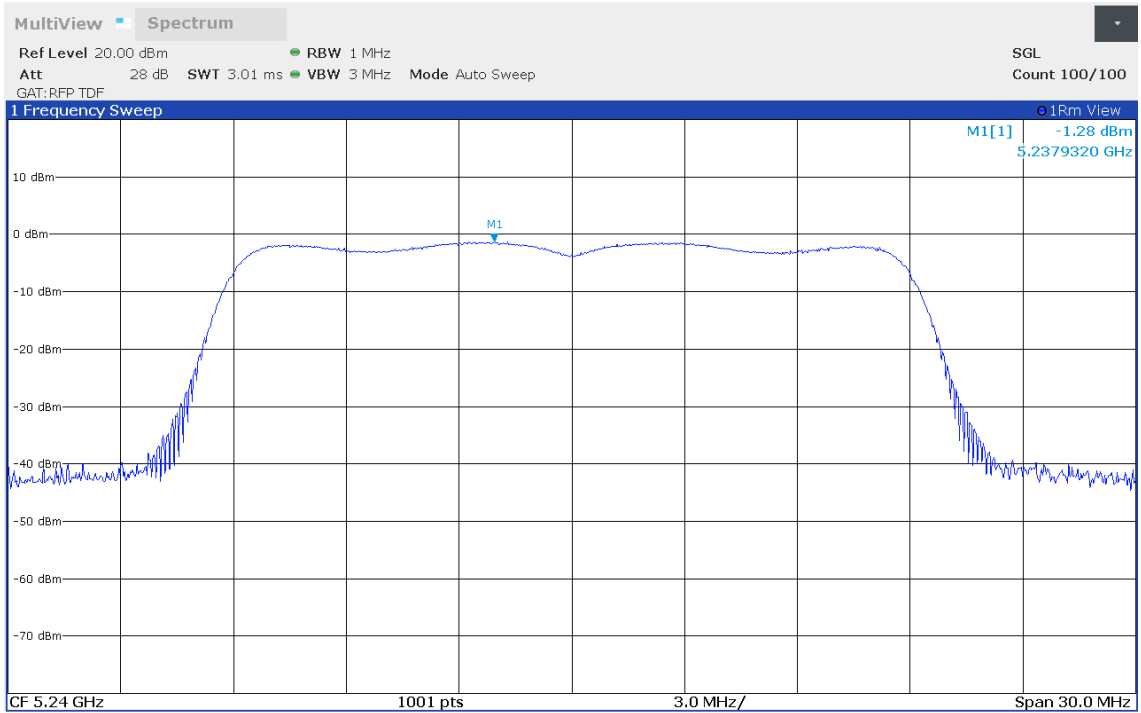
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 48, 5240 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5242.428
 Spectral Density 1 [dBm/RBW]: -2.498
 Maximum Frequency 2 [MHz]: 5237.932
 Spectral Density 2 [dBm/RBW]: -1.284
 Total Spectral Density [dBm/RBW]: 1.162
 Resolution Bandwidth [MHz]: 1



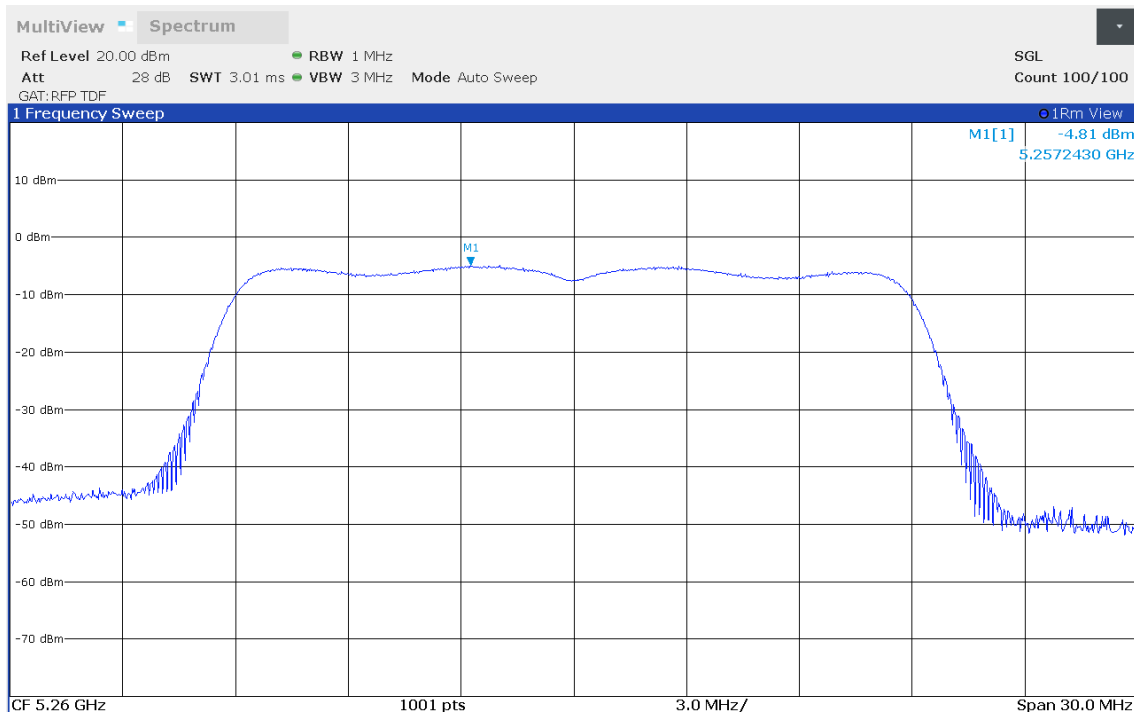
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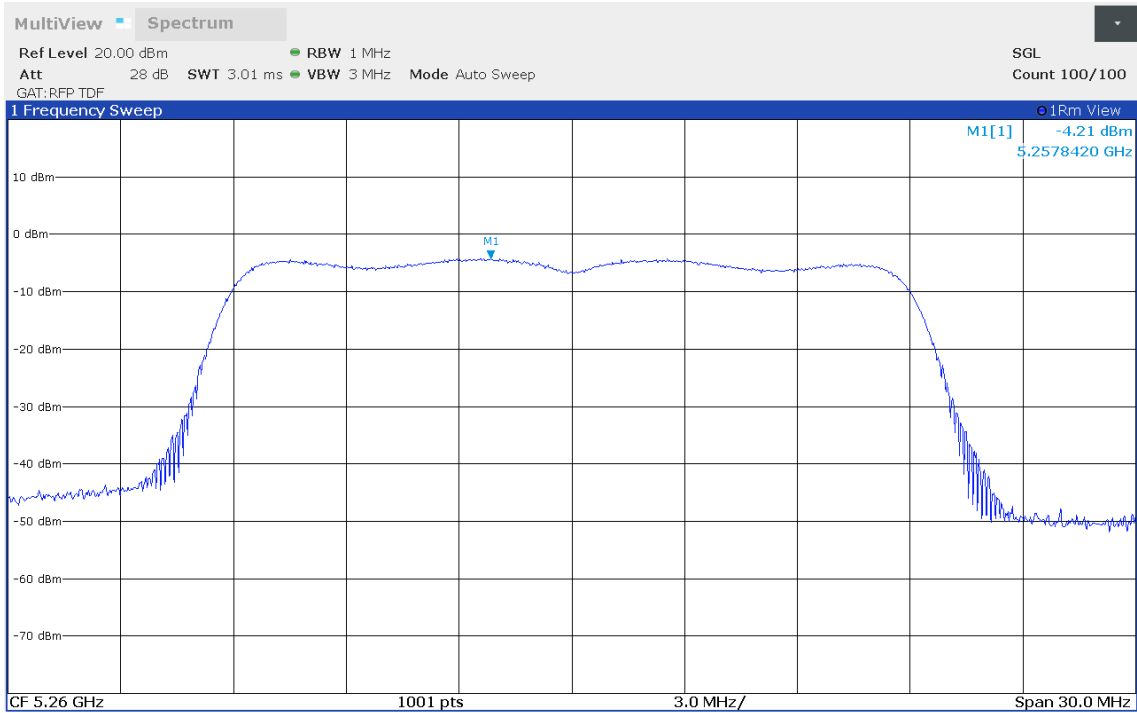
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 52, 5260 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5257.243
 Spectral Density 1 [dBm/RBW]: -4.813
 Maximum Frequency 2 [MHz]: 5257.842
 Spectral Density 2 [dBm/RBW]: -4.211
 Total Spectral Density [dBm/RBW]: -1.491
 Resolution Bandwidth [MHz]: 1



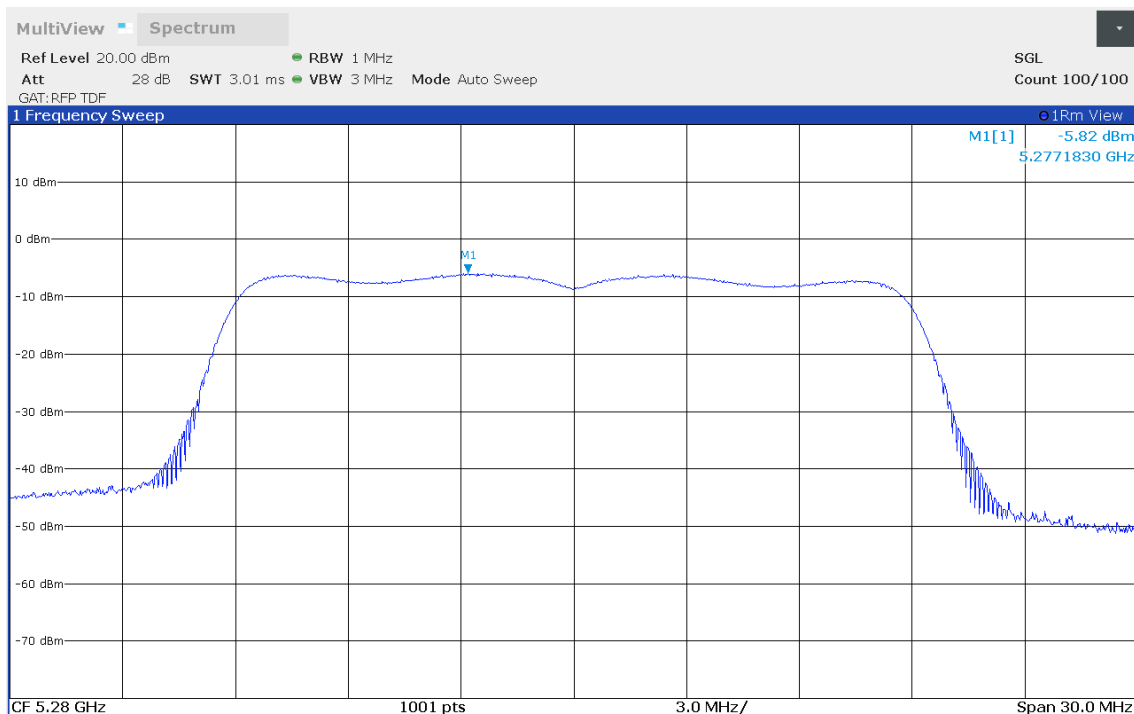
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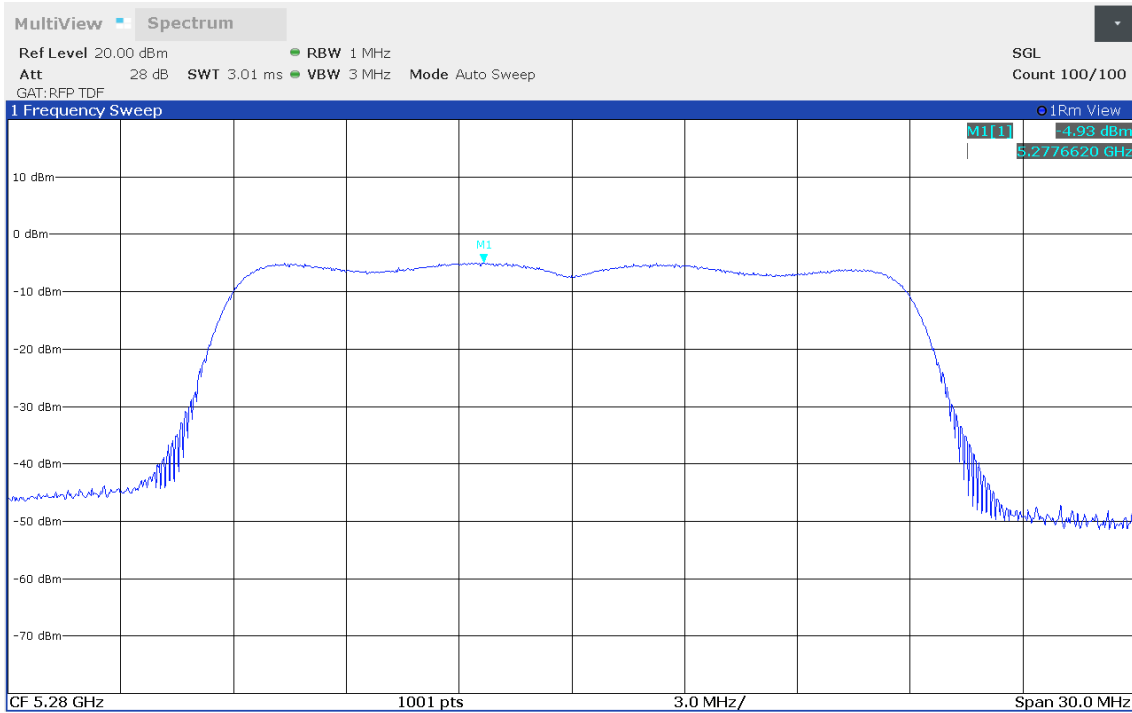
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 56, 5280 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5277.183
 Spectral Density 1 [dBm/RBW]: -5.817
 Maximum Frequency 2 [MHz]: 5277.662
 Spectral Density 2 [dBm/RBW]: -4.933
 Total Spectral Density [dBm/RBW]: -2.342
 Resolution Bandwidth [MHz]: 1



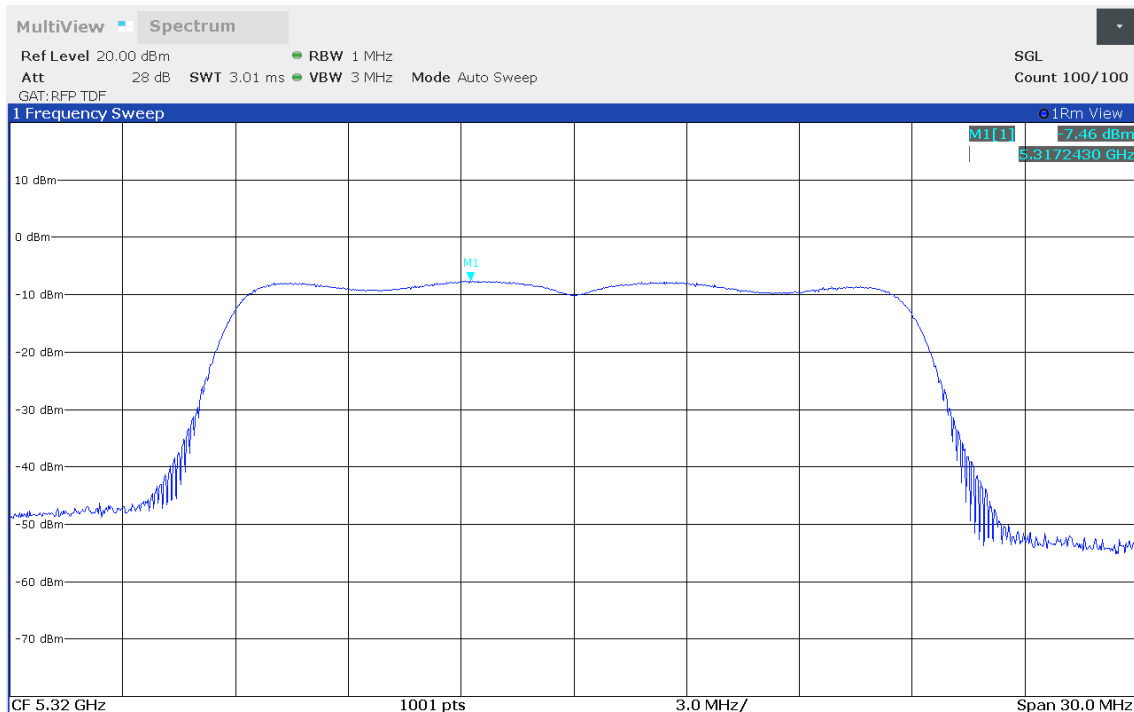
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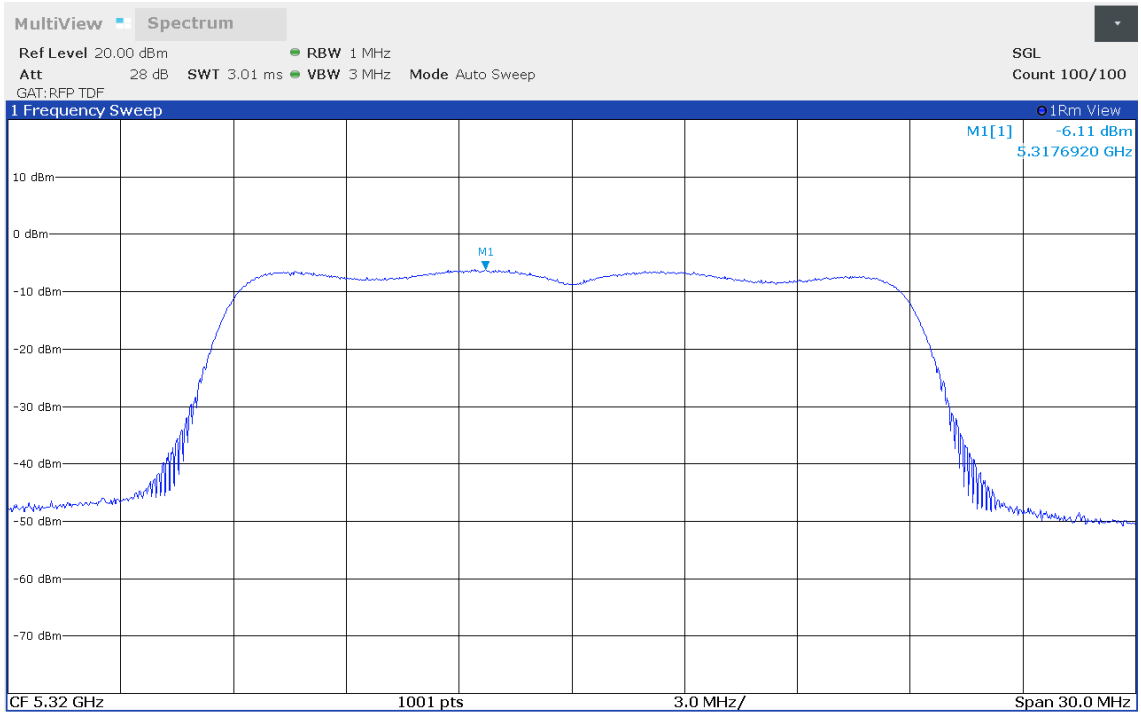
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 64, 5320 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5317.243
 Spectral Density 1 [dBm/RBW]: -7.464
 Maximum Frequency 2 [MHz]: 5317.692
 Spectral Density 2 [dBm/RBW]: -6.109
 Total Spectral Density [dBm/RBW]: -3.724
 Resolution Bandwidth [MHz]: 1



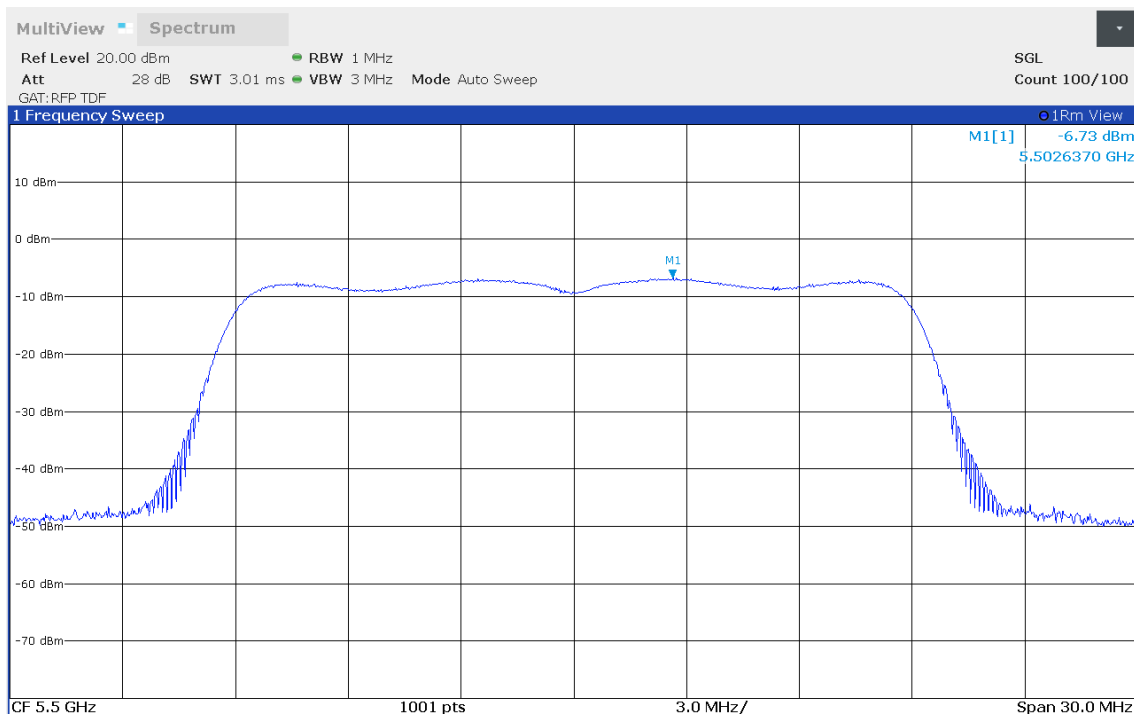
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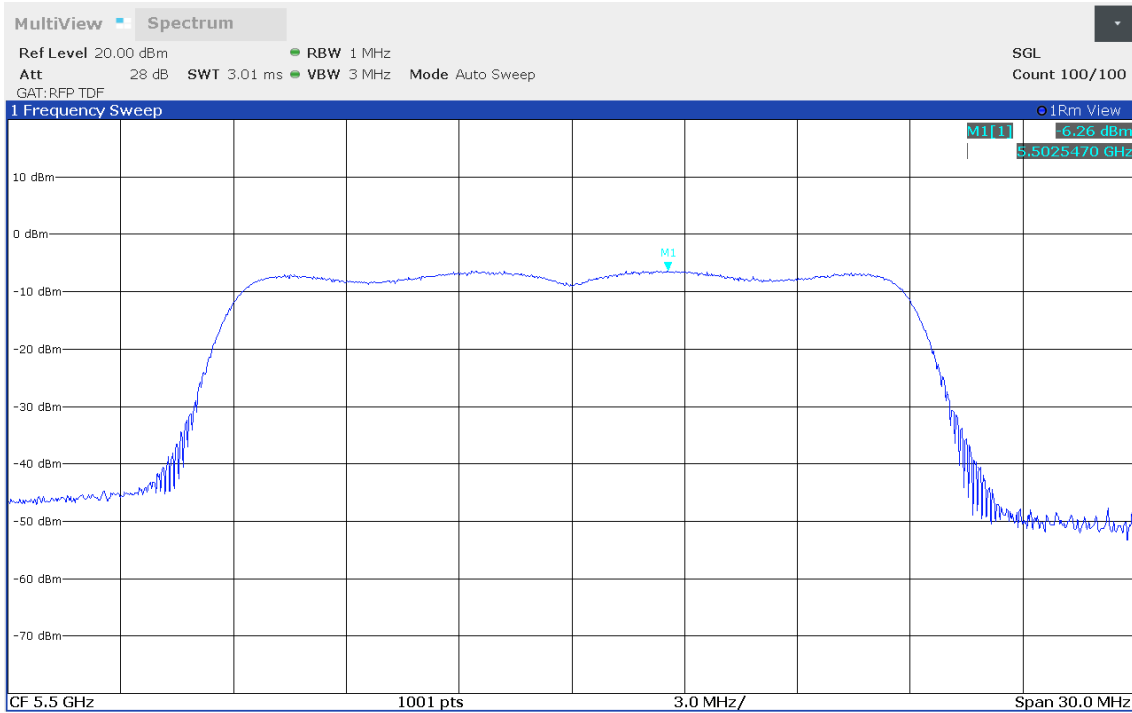
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 100, 5500 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5502.637
 Spectral Density 1 [dBm/RBW]: -6.727
 Maximum Frequency 2 [MHz]: 5502.547
 Spectral Density 2 [dBm/RBW]: -6.264
 Total Spectral Density [dBm/RBW]: -3.479
 Resolution Bandwidth [MHz]: 1



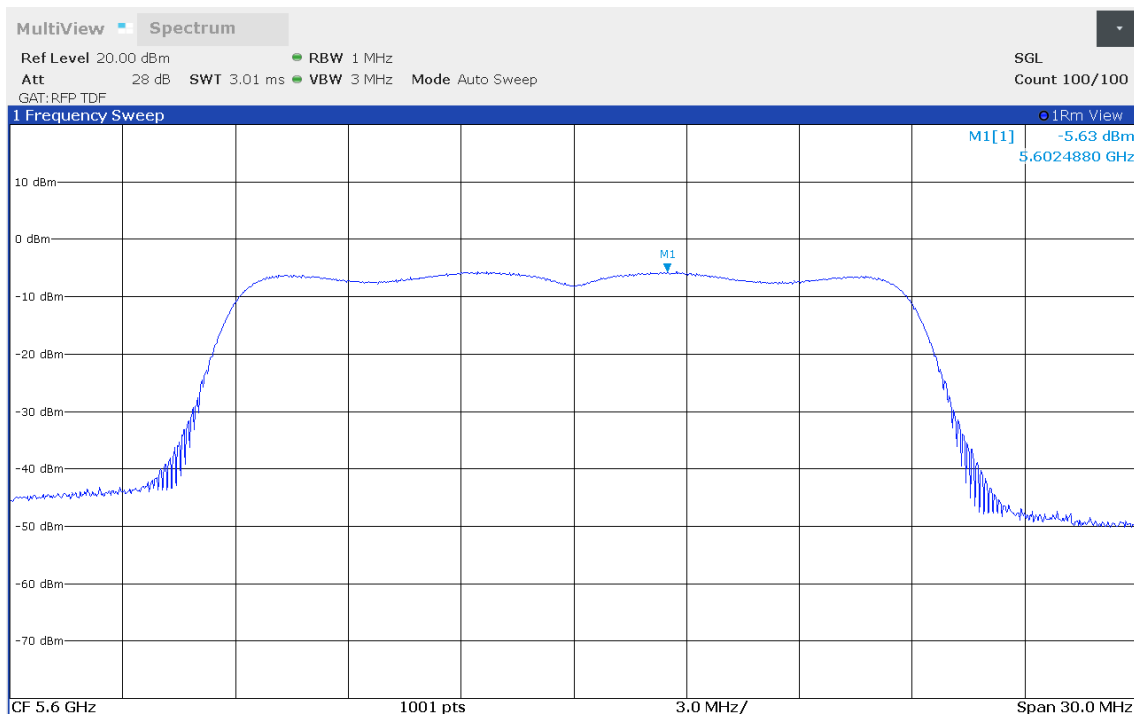
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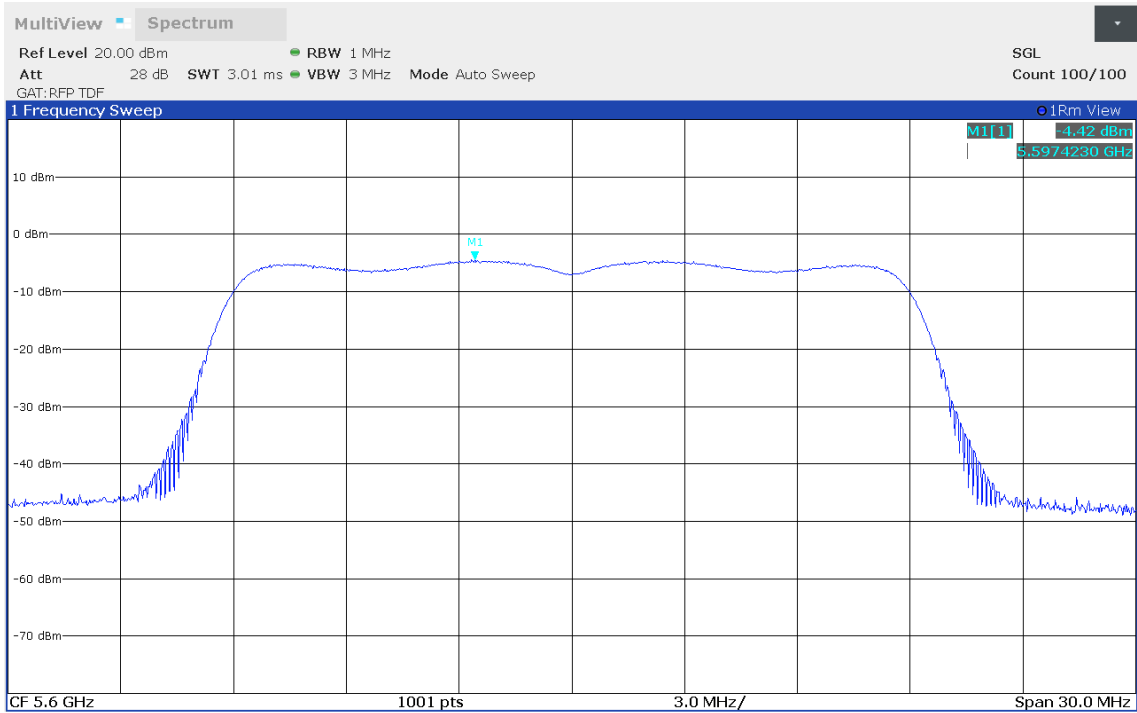
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 120, 5600 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5602.488
 Spectral Density 1 [dBm/RBW]: -5.625
 Maximum Frequency 2 [MHz]: 5597.423
 Spectral Density 2 [dBm/RBW]: -4.421
 Total Spectral Density [dBm/RBW]: -1.971
 Resolution Bandwidth [MHz]: 1



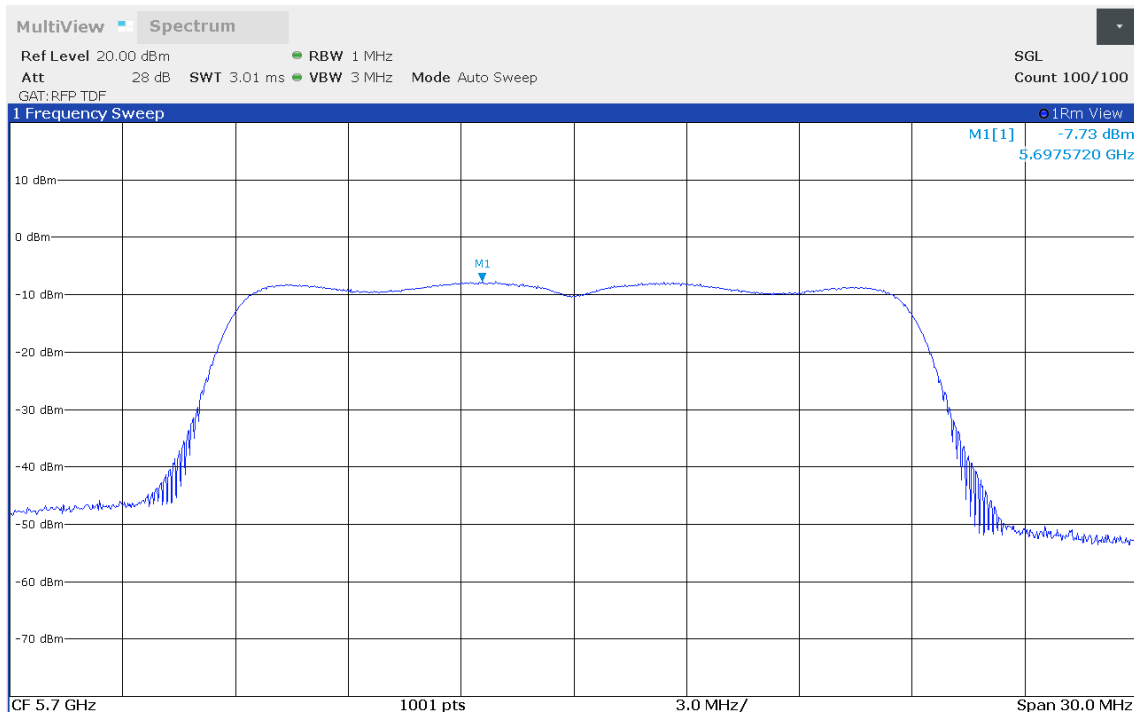
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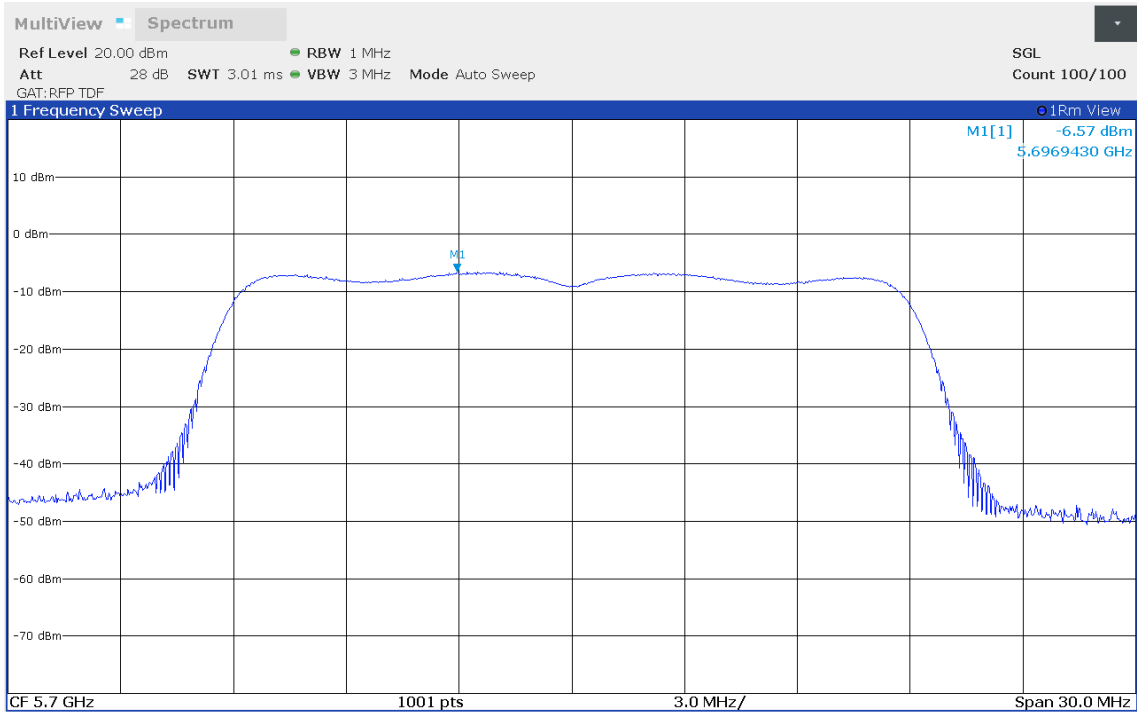
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 140, 5700 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5697.572
 Spectral Density 1 [dBm/RBW]: -7.731
 Maximum Frequency 2 [MHz]: 5696.943
 Spectral Density 2 [dBm/RBW]: -6.570
 Total Spectral Density [dBm/RBW]: -4.102
 Resolution Bandwidth [MHz]: 1



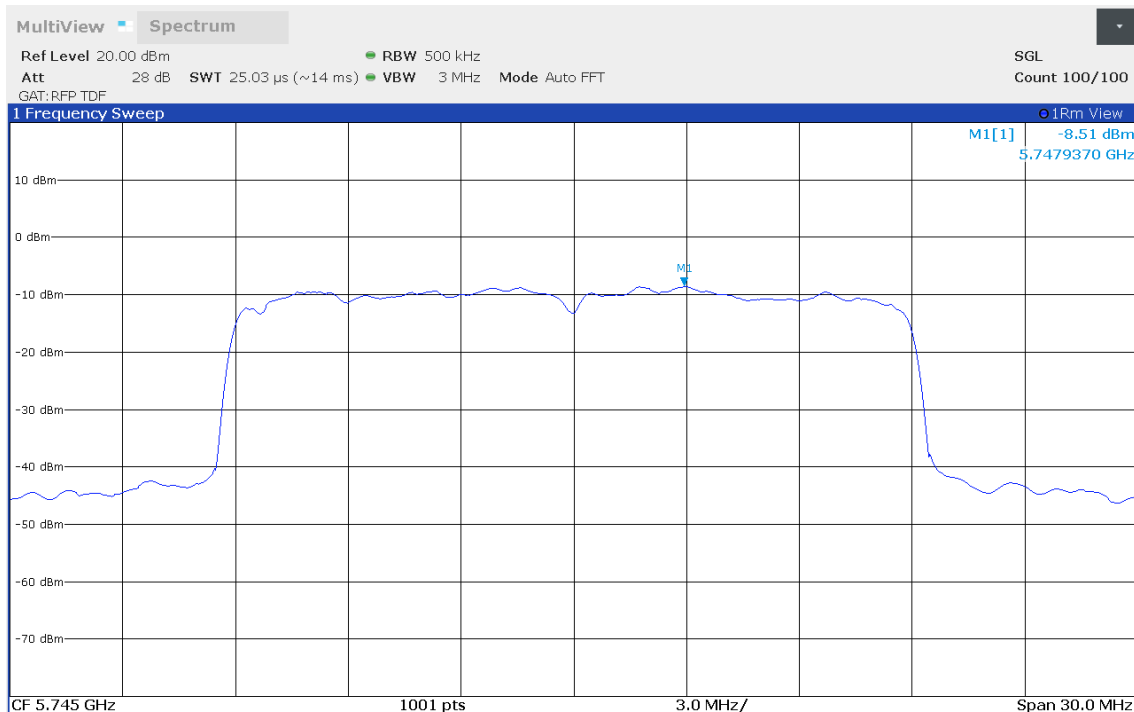
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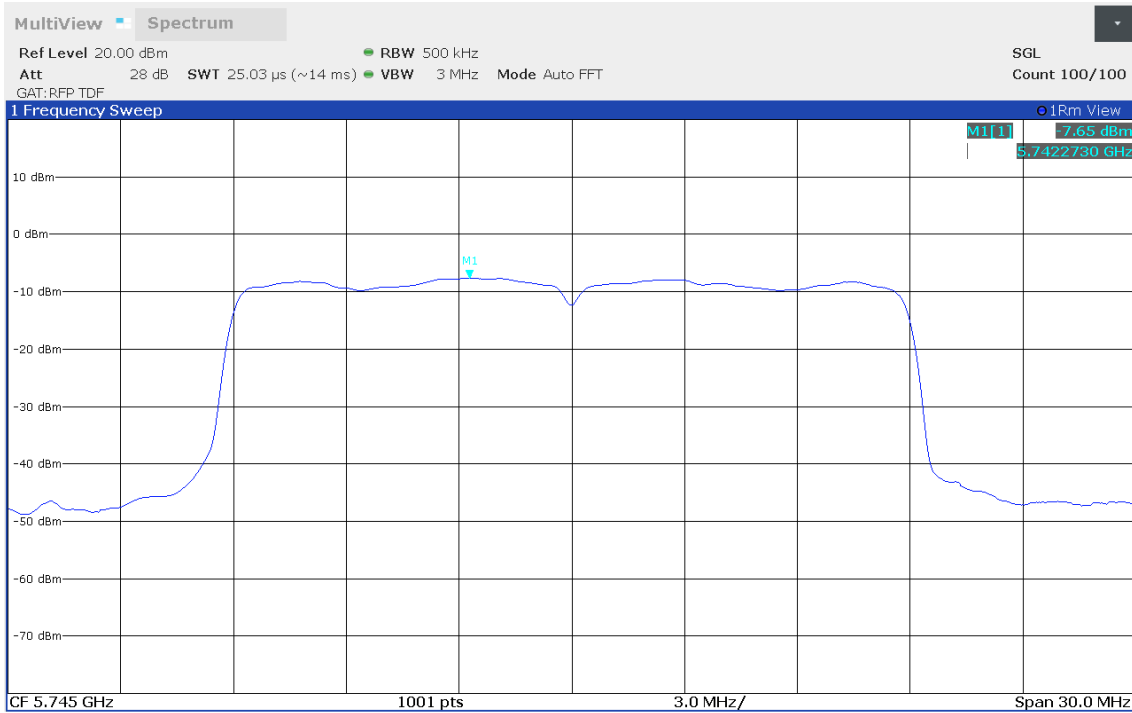
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5747.937
 Spectral Density 1 [dBm/RBW]: -8.509
 Maximum Frequency 2 [MHz]: 5742.273
 Spectral Density 2 [dBm/RBW]: -7.650
 Total Spectral Density [dBm/RBW]: -5.048
 Resolution Bandwidth [MHz]: 0.5



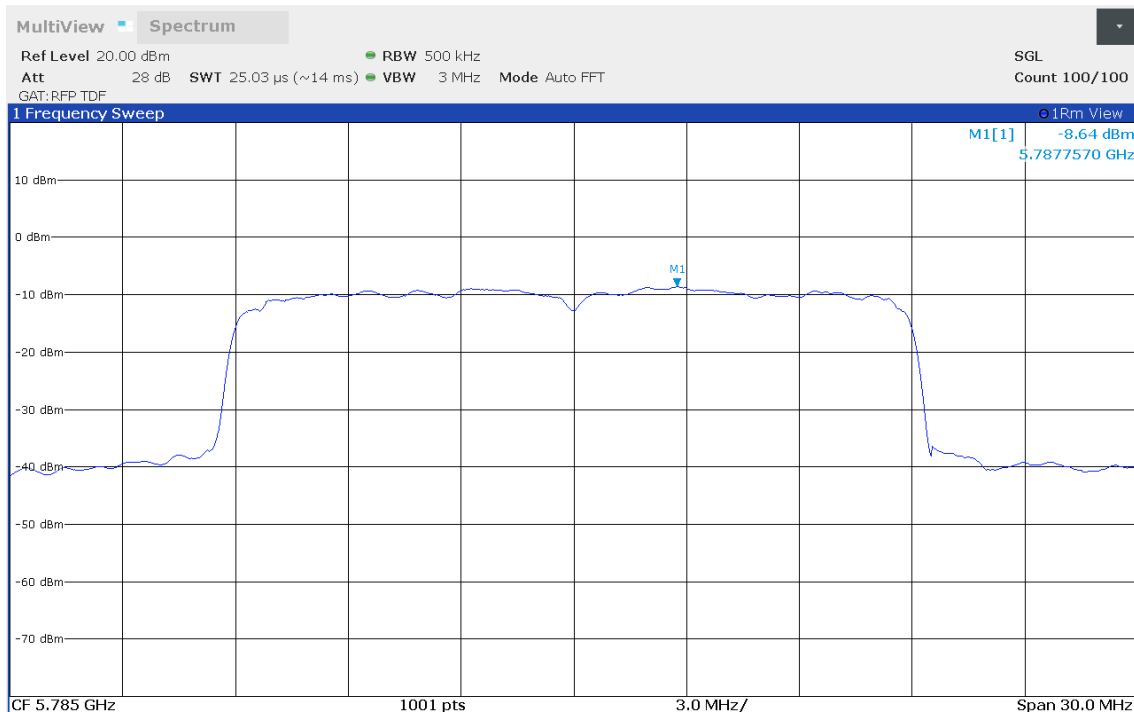
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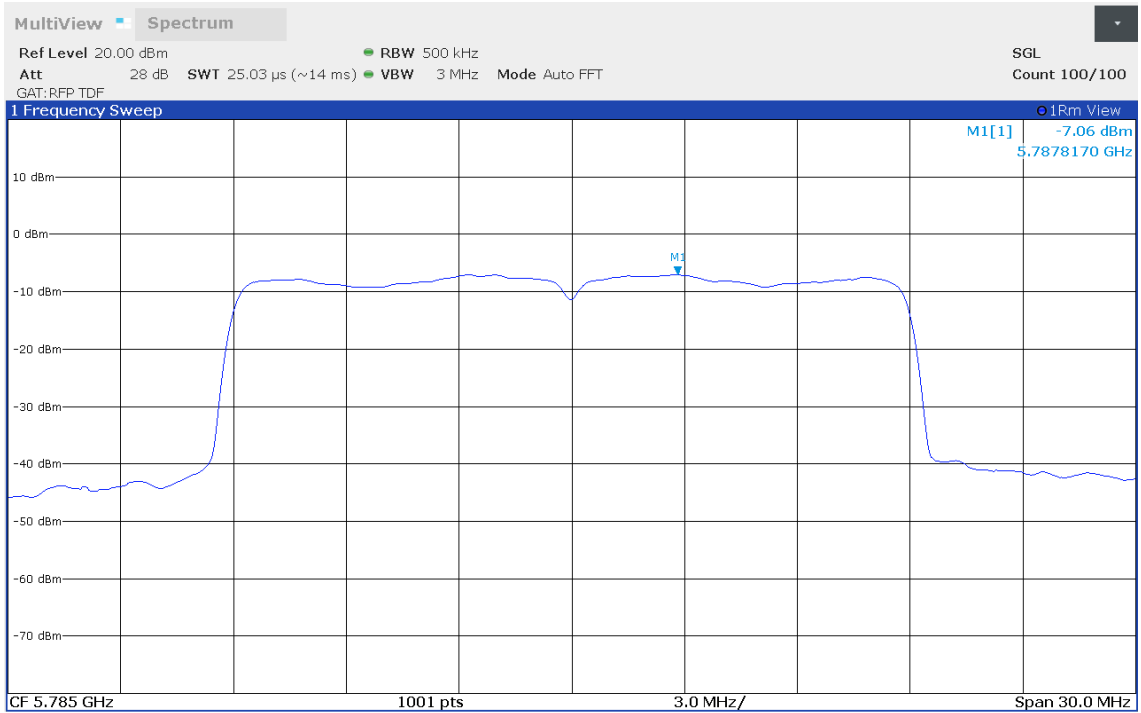
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5787.757
 Spectral Density 1 [dBm/RBW]: -8.645
 Maximum Frequency 2 [MHz]: 5787.817
 Spectral Density 2 [dBm/RBW]: -7.064
 Total Spectral Density [dBm/RBW]: -4.773
 Resolution Bandwidth [MHz]: 0.5



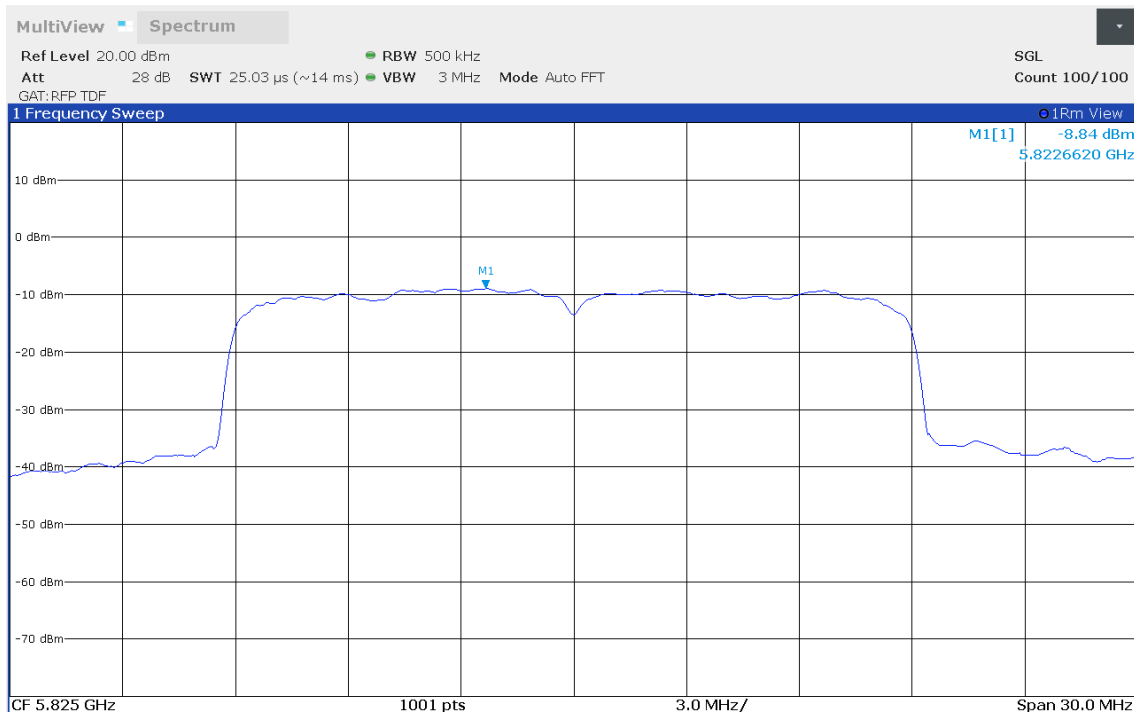
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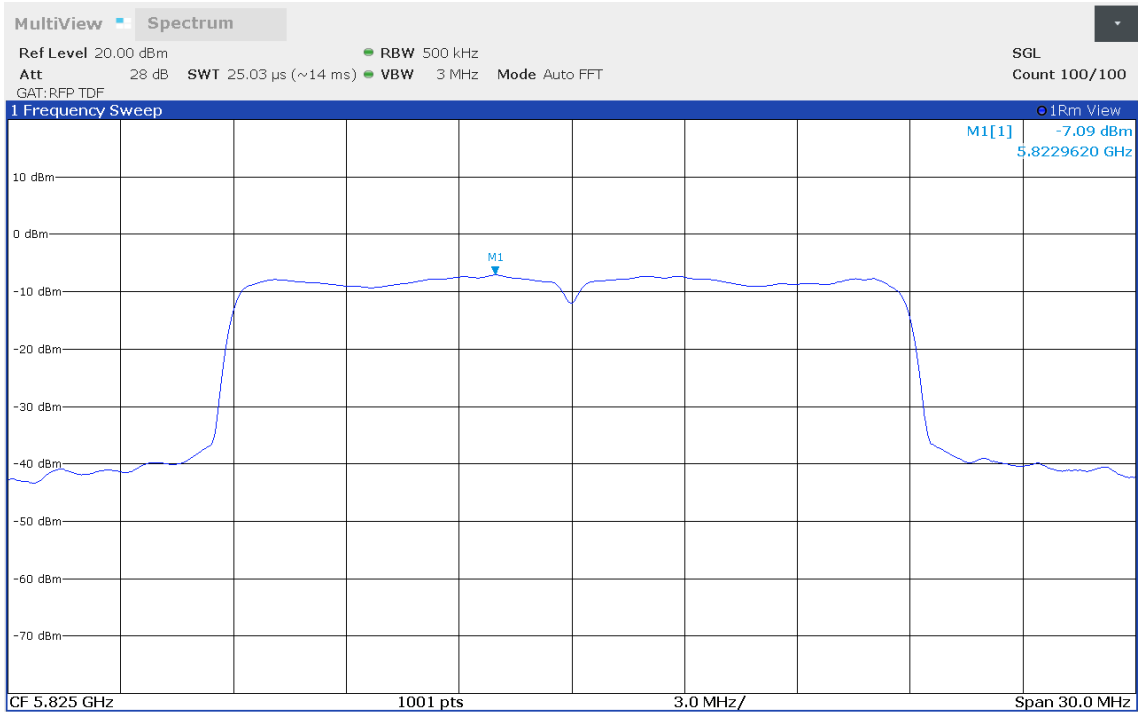
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11n (HT20), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5822.662
 Spectral Density 1 [dBm/RBW]: -8.838
 Maximum Frequency 2 [MHz]: 5822.962
 Spectral Density 2 [dBm/RBW]: -7.092
 Total Spectral Density [dBm/RBW]: -4.868
 Resolution Bandwidth [MHz]: 0.5



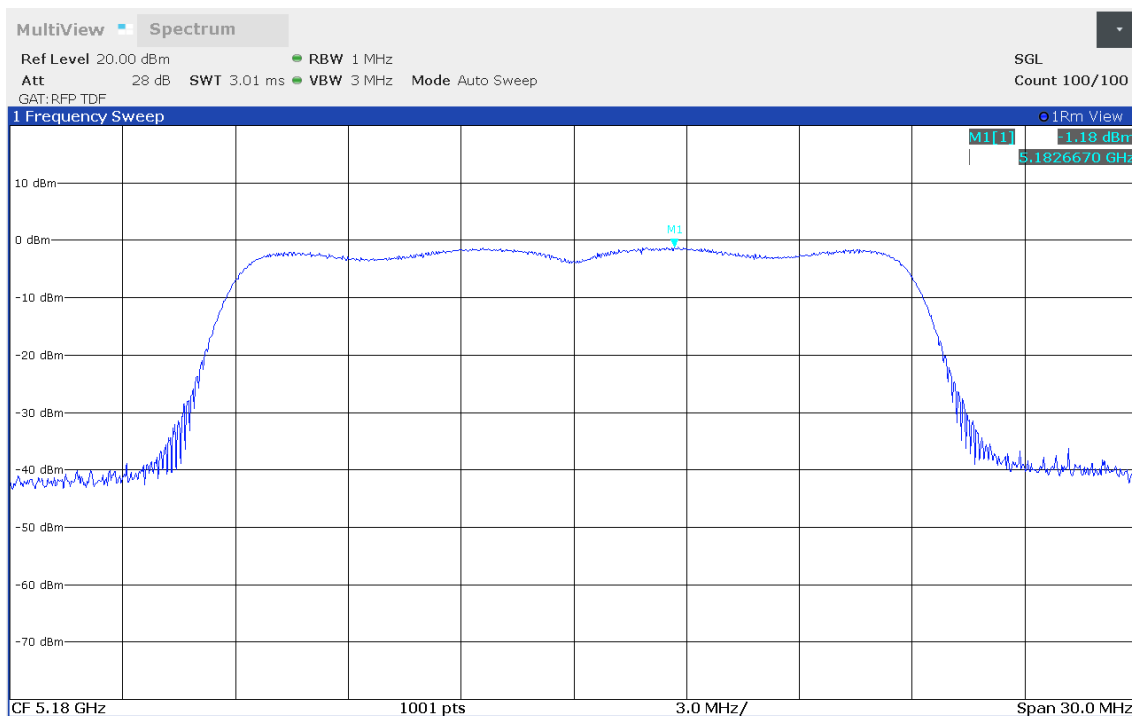
12:47:09 09.10.2019



12:47:35 09.10.2019

Maximum Power Spectral Density

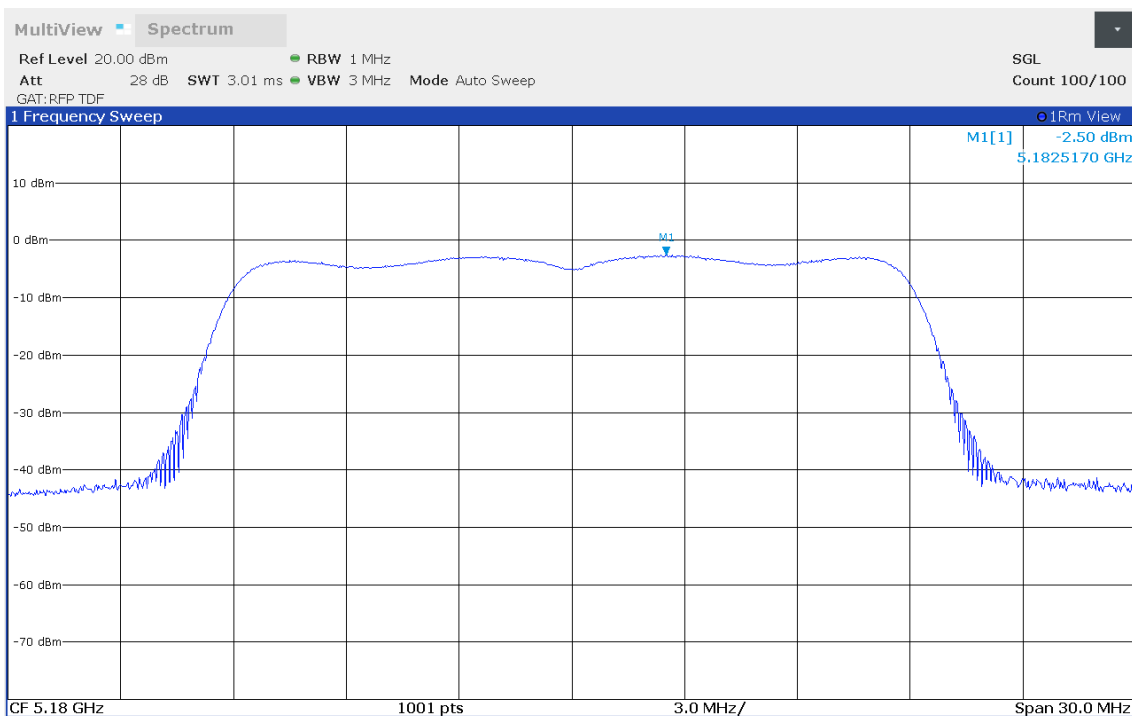
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5182.667
Spectral Density [dBm/RBW]:	-1.178
Resolution Bandwidth [MHz]:	1



10:30:40 09.10.2019

Maximum Power Spectral Density

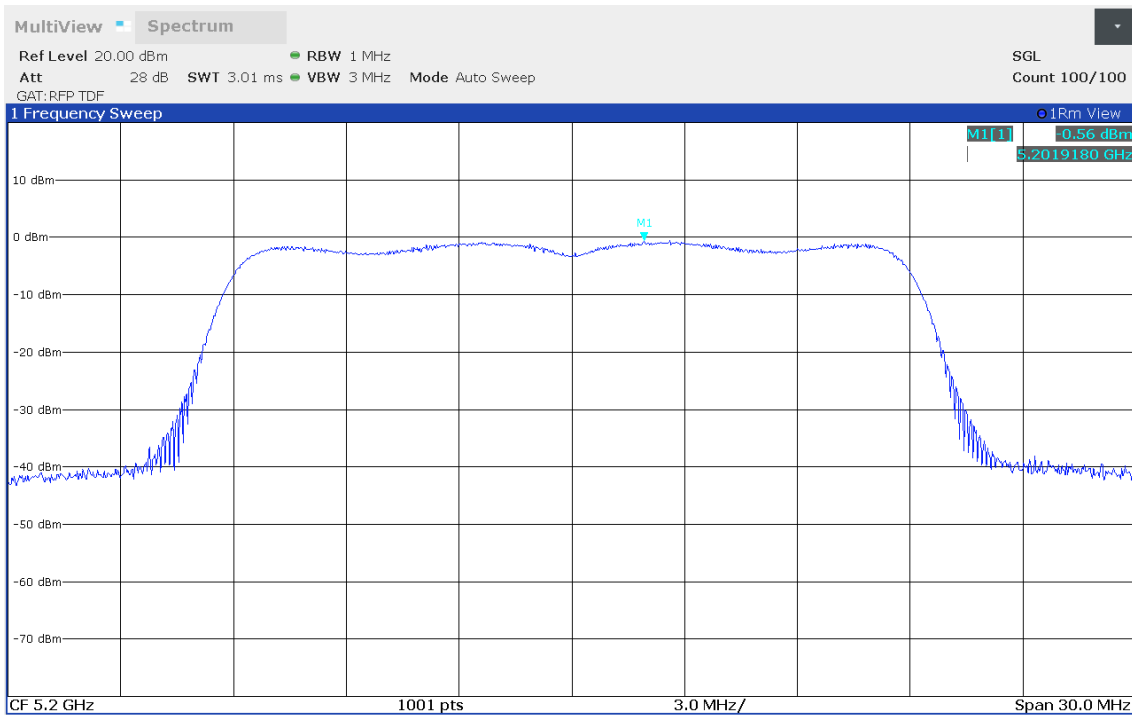
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 36, 5180 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5182.517
 Spectral Density [dBm/RBW]: -2.500
 Resolution Bandwidth [MHz]: 1



10:10:05 09.10.2019

Maximum Power Spectral Density

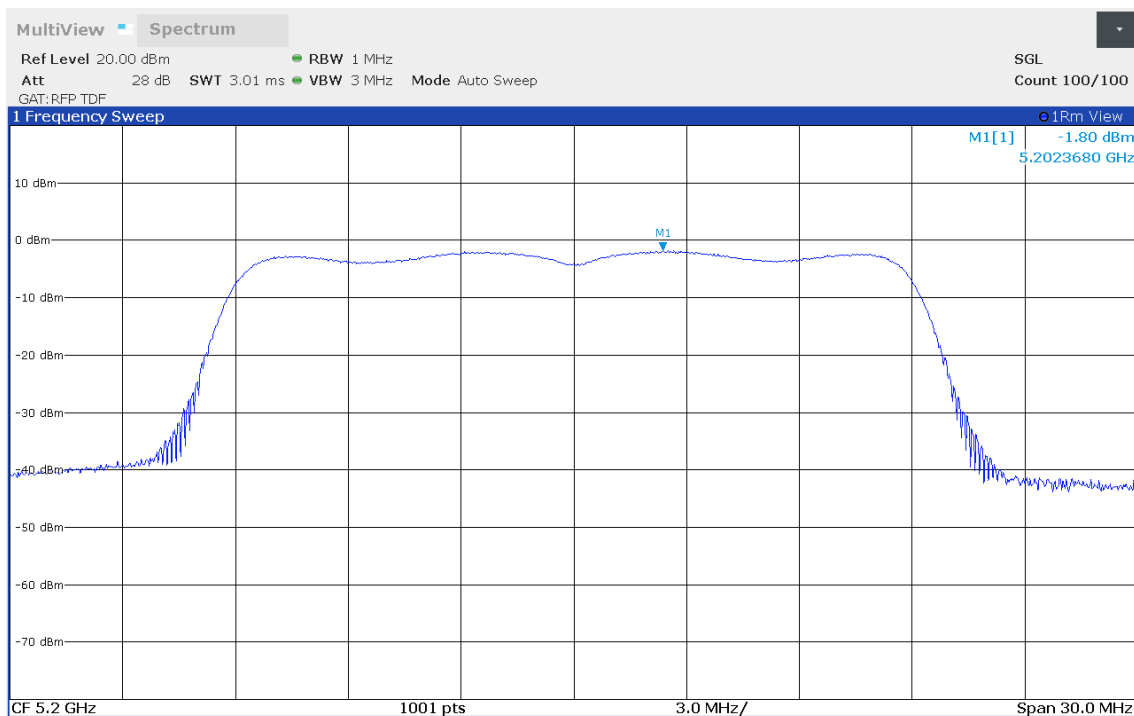
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 40, 5200 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5201.918
 Spectral Density [dBm/RBW]: -0.562
 Resolution Bandwidth [MHz]: 1



10:31:25 09.10.2019

Maximum Power Spectral Density

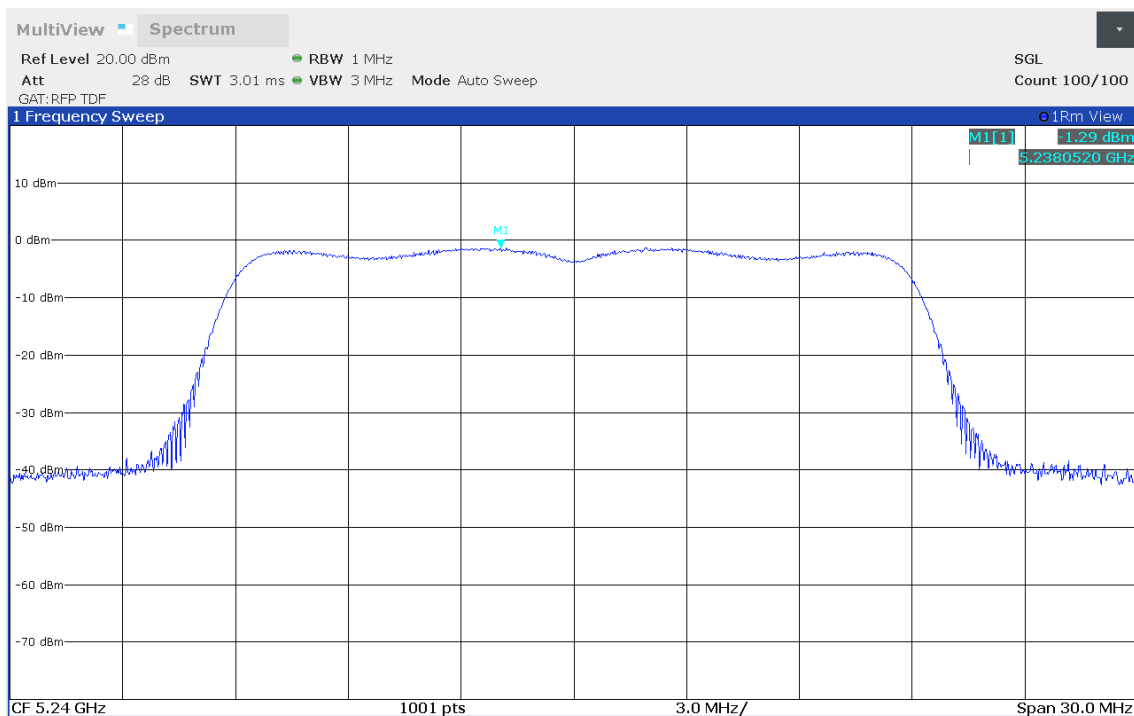
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 40, 5200 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5202.368
 Spectral Density [dBm/RBW]: -1.803
 Resolution Bandwidth [MHz]: 1



10:11:14 09.10.2019

Maximum Power Spectral Density

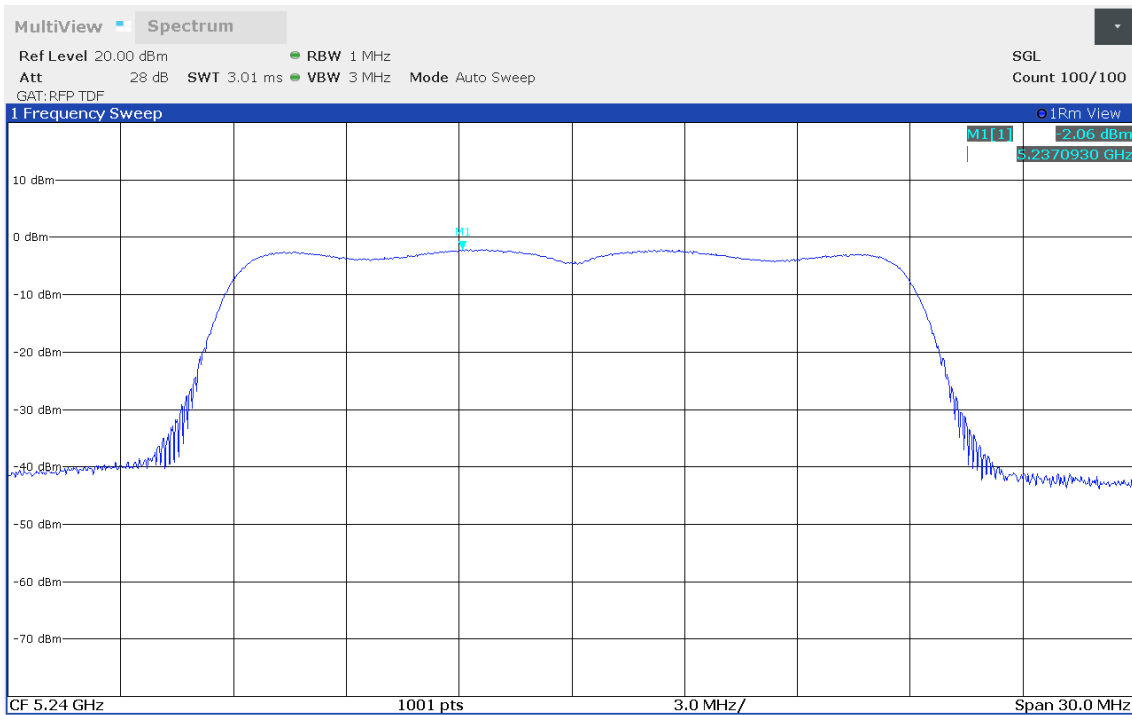
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 48, 5240 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5238.052
 Spectral Density [dBm/RBW]: -1.289
 Resolution Bandwidth [MHz]: 1



10:32:09 09.10.2019

Maximum Power Spectral Density

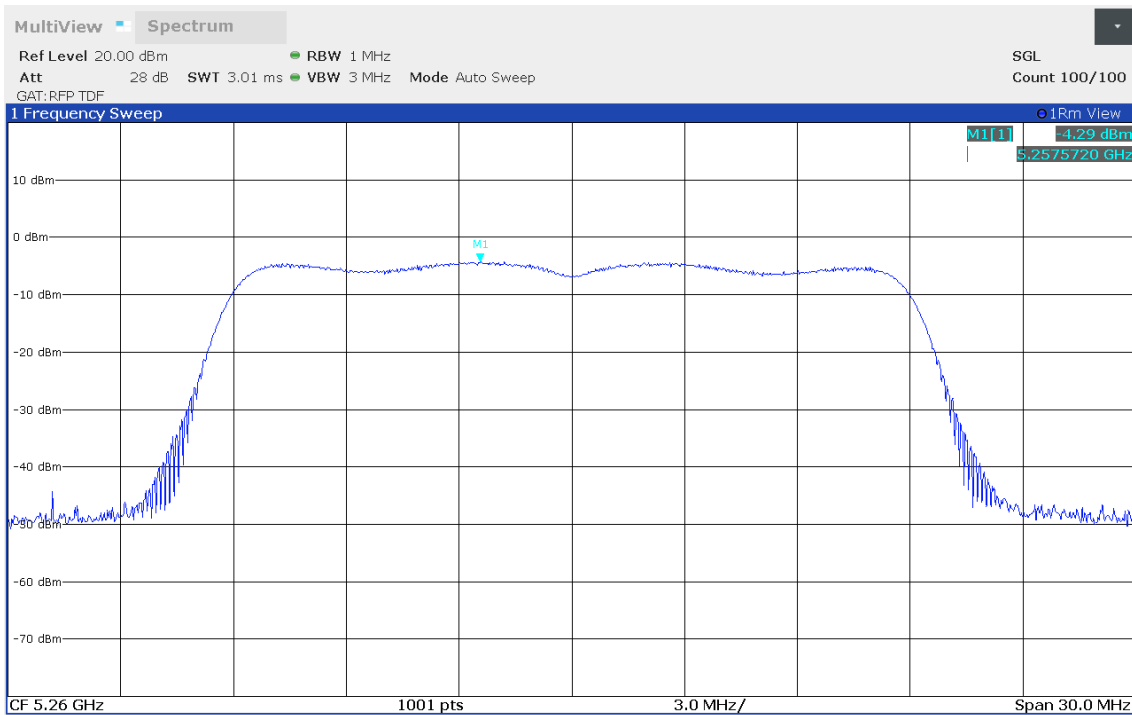
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 48, 5240 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5237.093
 Spectral Density [dBm/RBW]: -2.056
 Resolution Bandwidth [MHz]: 1



10:12:07 09.10.2019

Maximum Power Spectral Density

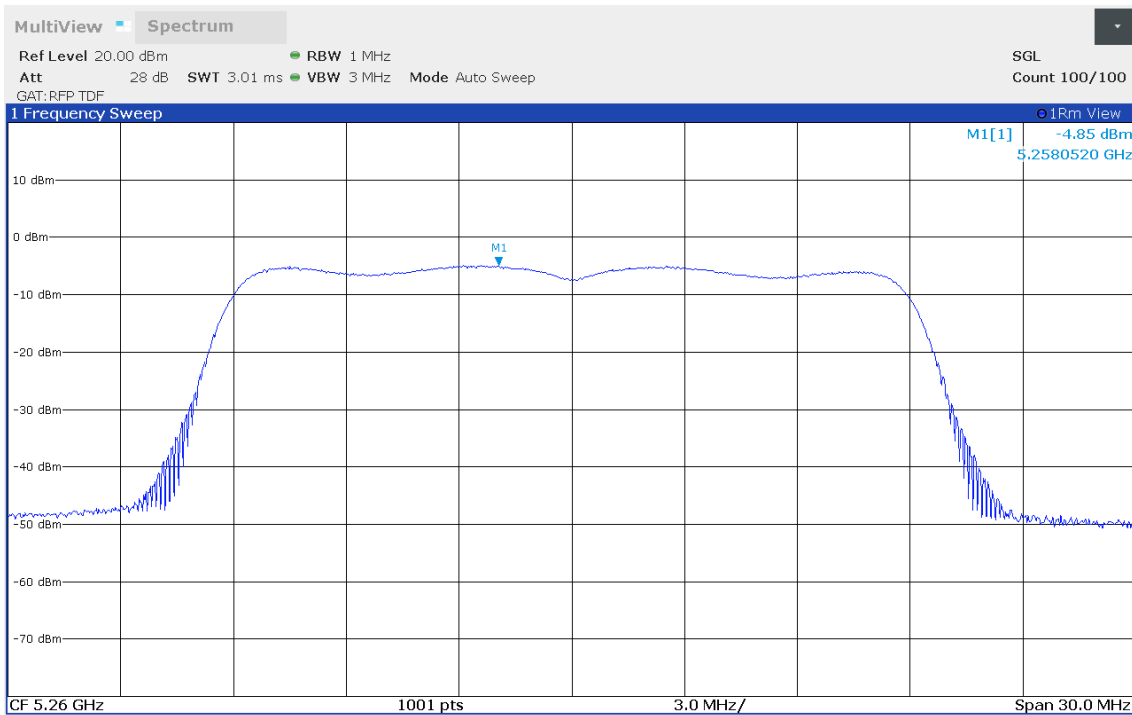
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5257.572
Spectral Density [dBm/RBW]:	-4.288
Resolution Bandwidth [MHz]:	1



12:04:10 09.10.2019

Maximum Power Spectral Density

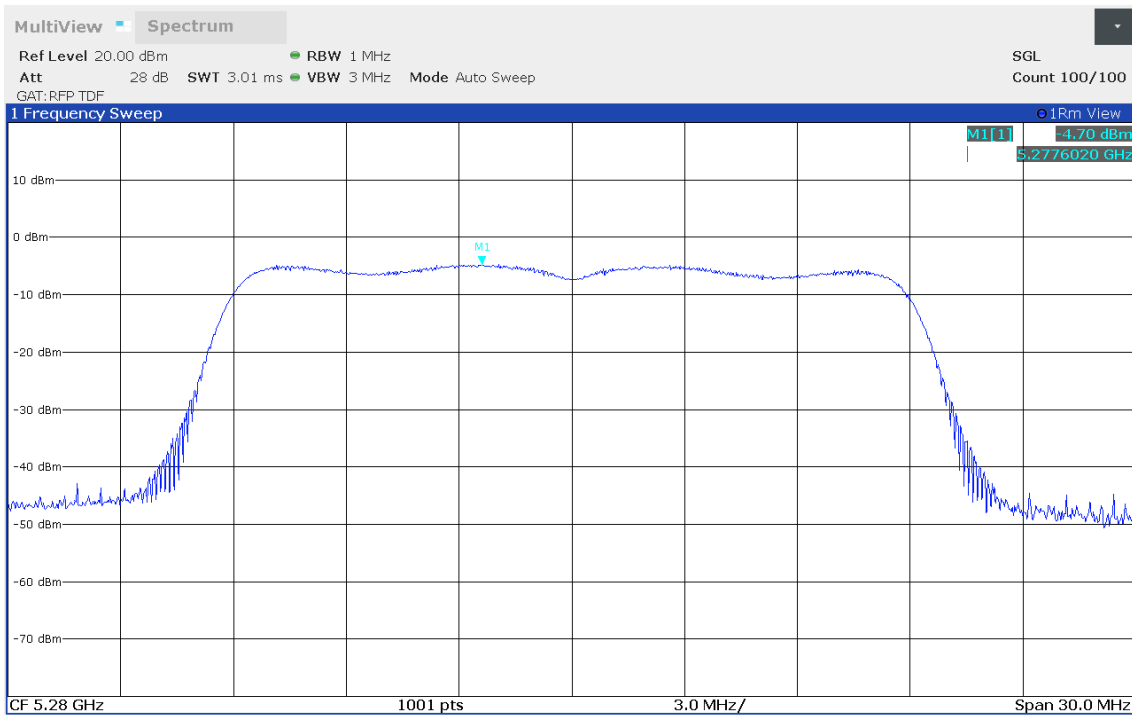
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 52, 5260 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5258.052
 Spectral Density [dBm/RBW]: -4.850
 Resolution Bandwidth [MHz]: 1



11:32:44 09.10.2019

Maximum Power Spectral Density

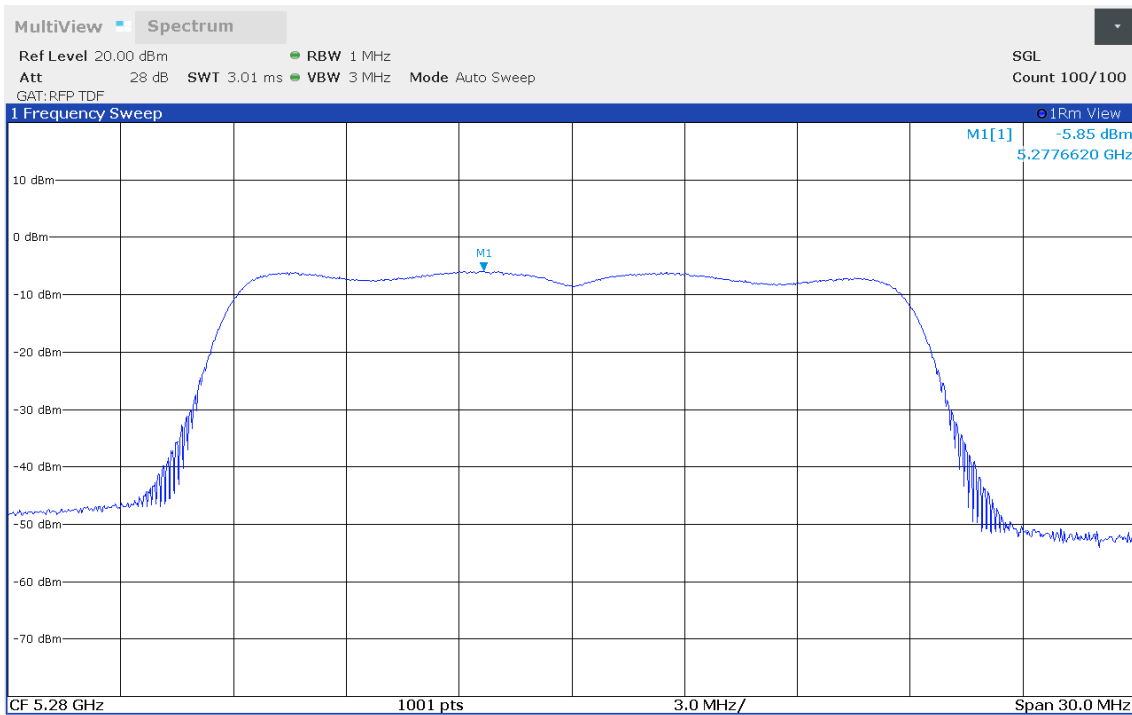
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 56, 5280 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5277.602
 Spectral Density [dBm/RBW]: -4.700
 Resolution Bandwidth [MHz]: 1



12:04:53 09.10.2019

Maximum Power Spectral Density

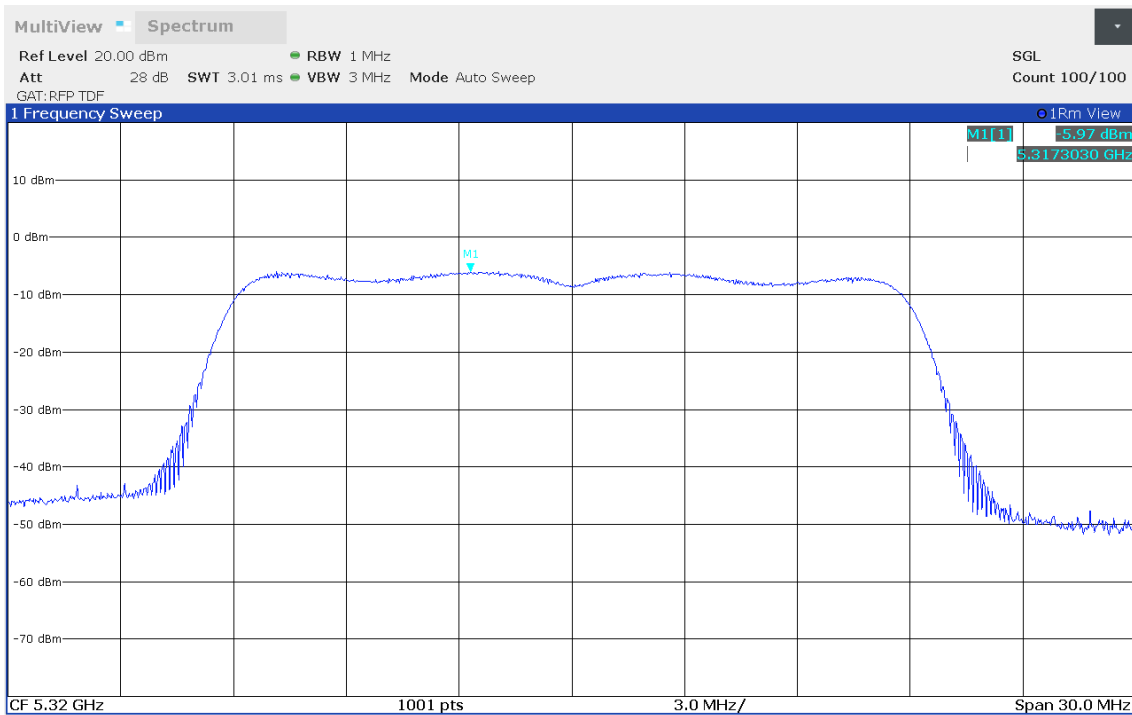
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 56, 5280 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5277.662
 Spectral Density [dBm/RBW]: -5.846
 Resolution Bandwidth [MHz]: 1



11:33:37 09.10.2019

Maximum Power Spectral Density

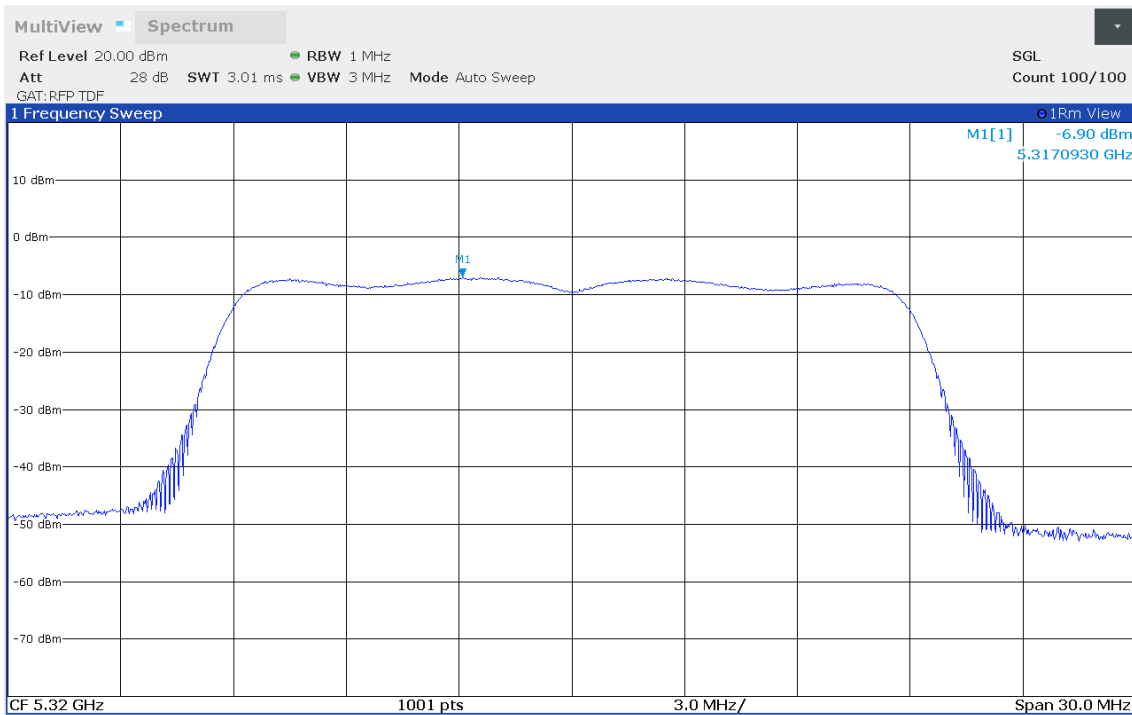
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 64, 5320 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5317.303
 Spectral Density [dBm/RBW]: -5.971
 Resolution Bandwidth [MHz]: 1



12:05:39 09.10.2019

Maximum Power Spectral Density

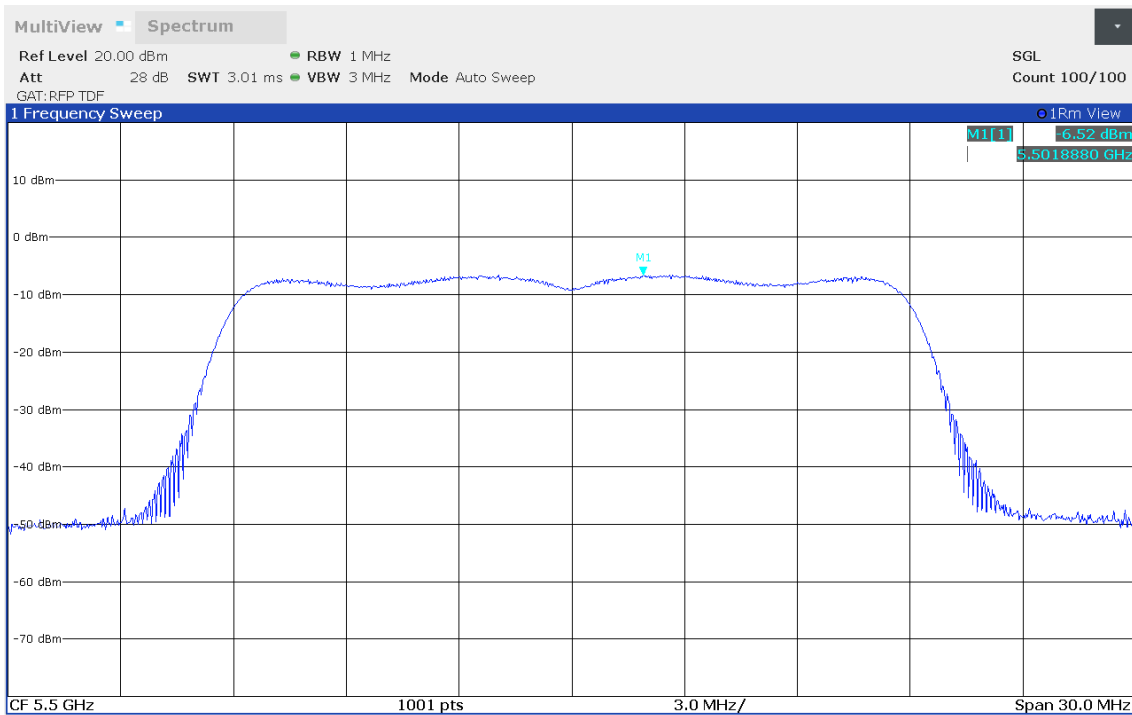
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 64, 5320 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5317.093
 Spectral Density [dBm/RBW]: -6.898
 Resolution Bandwidth [MHz]: 1



11:34:28 09.10.2019

Maximum Power Spectral Density

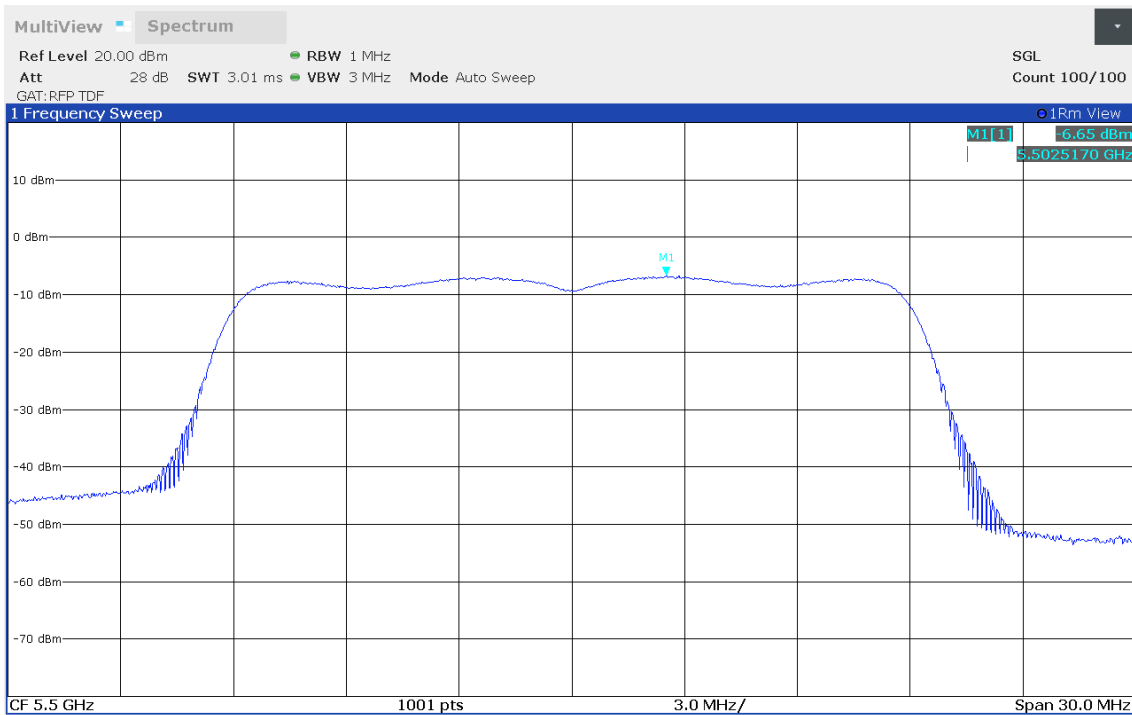
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5501.888
Spectral Density [dBm/RBW]:	-6.518
Resolution Bandwidth [MHz]:	1



12:06:31 09.10.2019

Maximum Power Spectral Density

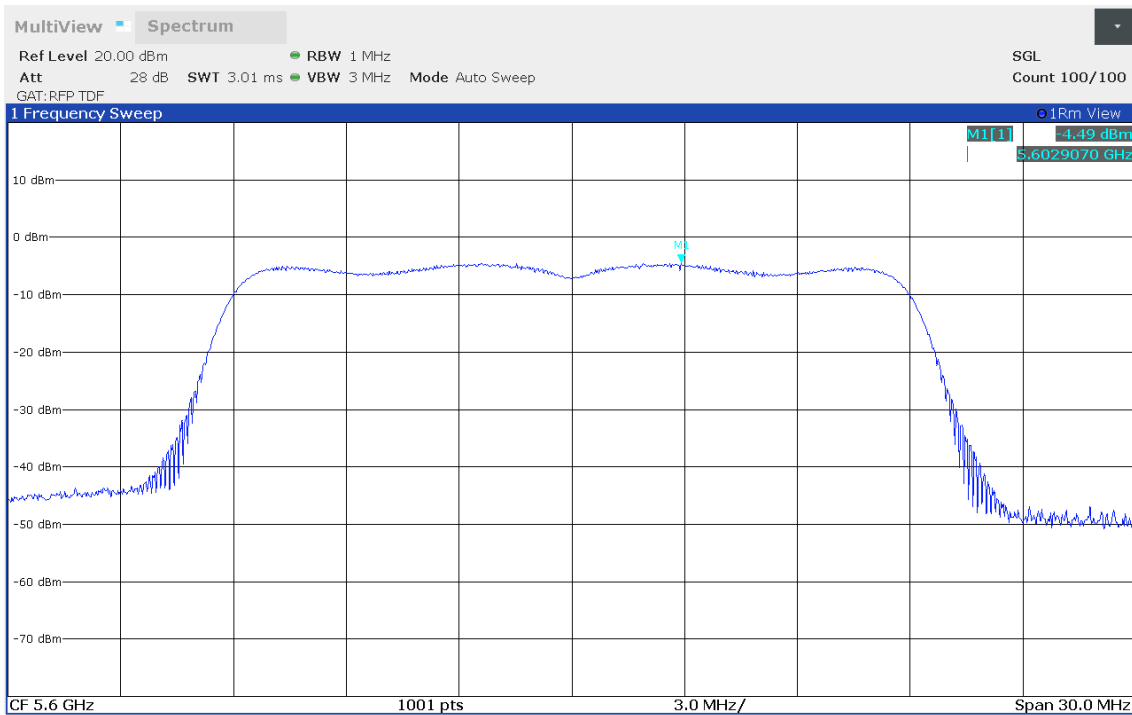
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5502.517
Spectral Density [dBm/RBW]:	-6.653
Resolution Bandwidth [MHz]:	1



11:38:59 09.10.2019

Maximum Power Spectral Density

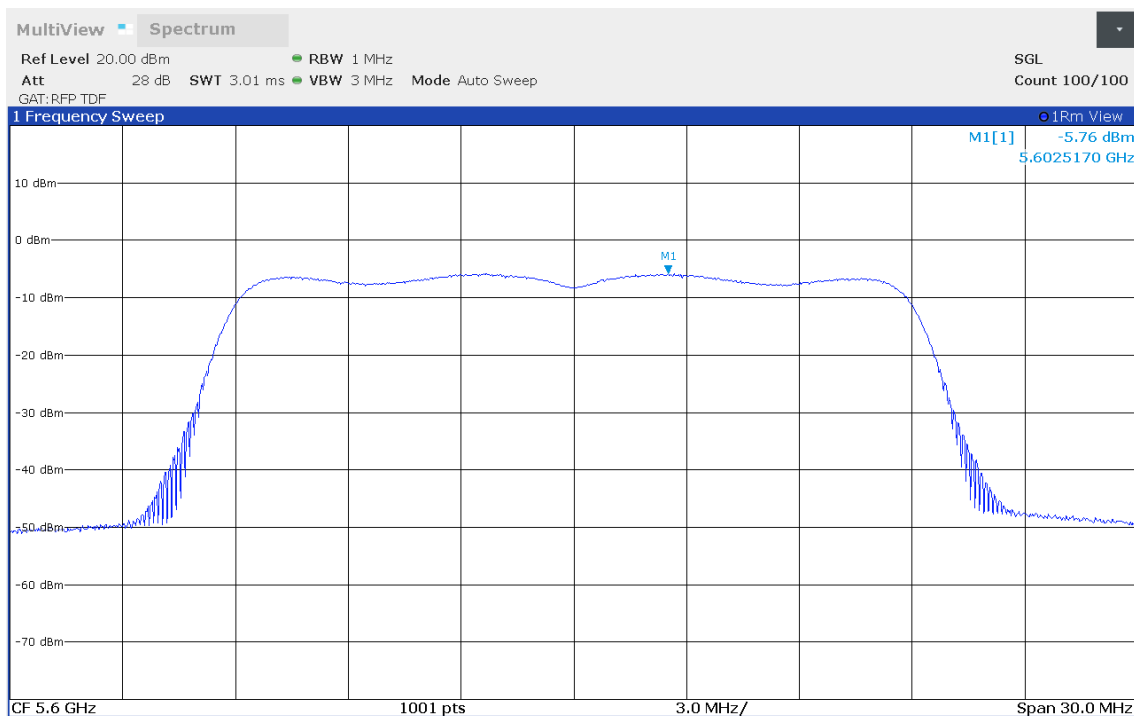
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5602.907
Spectral Density [dBm/RBW]:	-4.489
Resolution Bandwidth [MHz]:	1



12:07:21 09.10.2019

Maximum Power Spectral Density

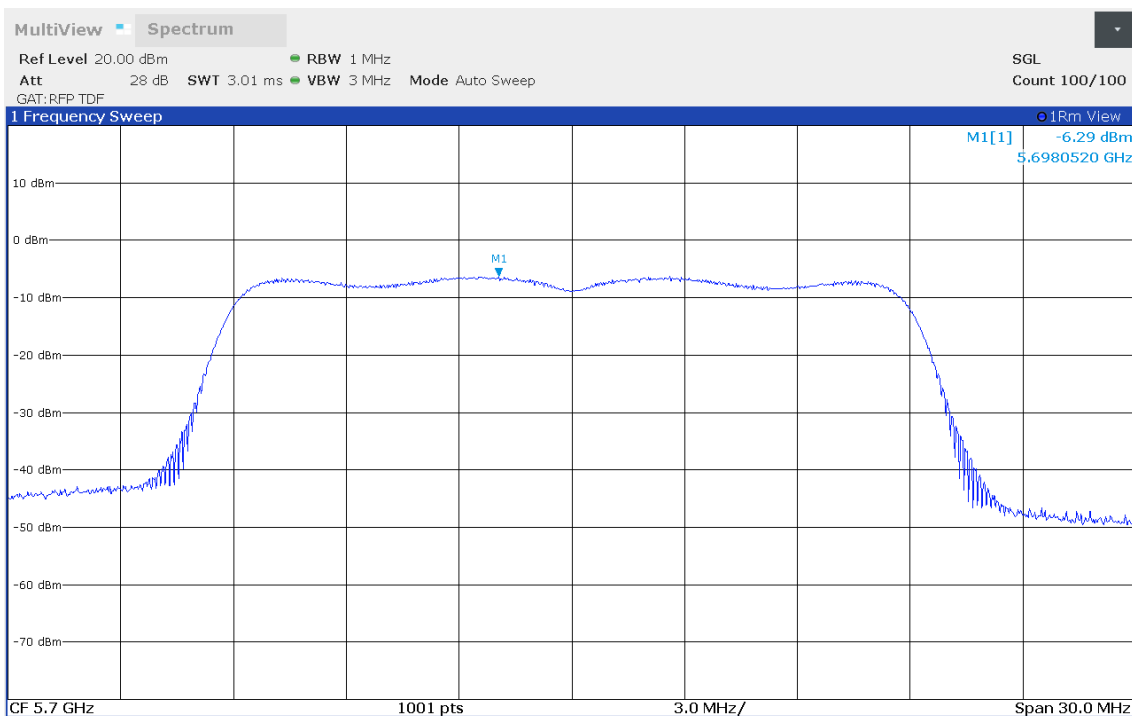
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Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	W
Maximum Frequency [MHz]:	5602.517
Spectral Density [dBm/RBW]:	-5.760
Resolution Bandwidth [MHz]:	1



11:39:56 09.10.2019

Maximum Power Spectral Density

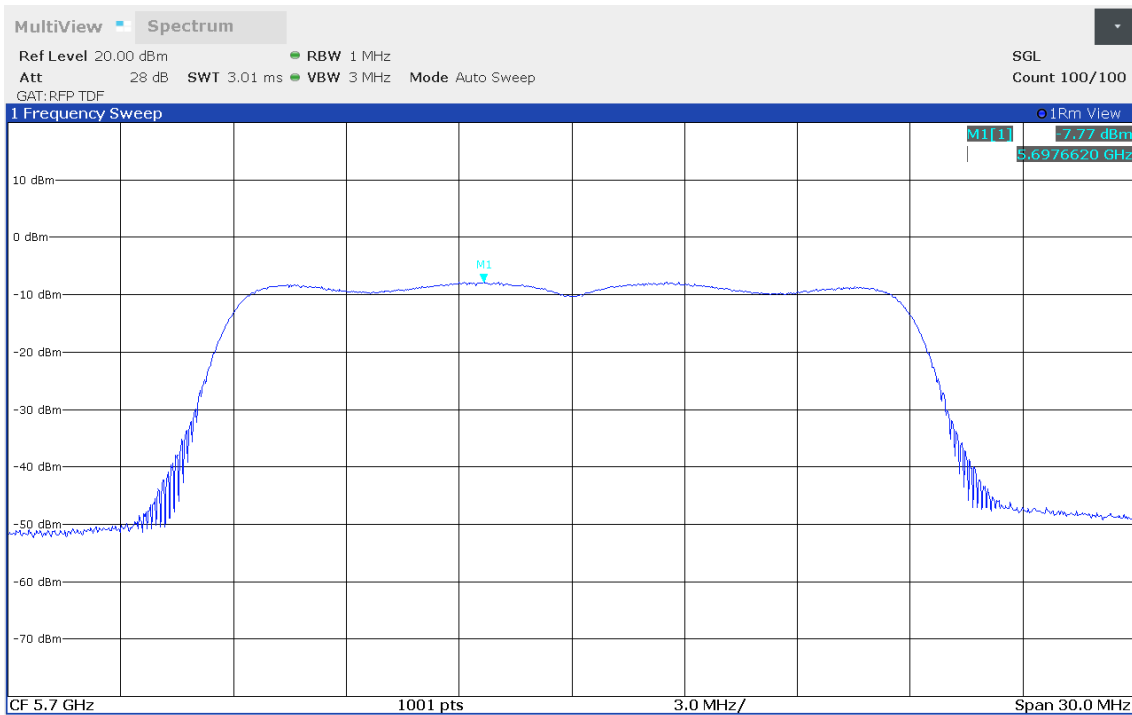
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 140, 5700 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5698.052
 Spectral Density [dBm/RBW]: -6.292
 Resolution Bandwidth [MHz]: 1



12:08:06 09.10.2019

Maximum Power Spectral Density

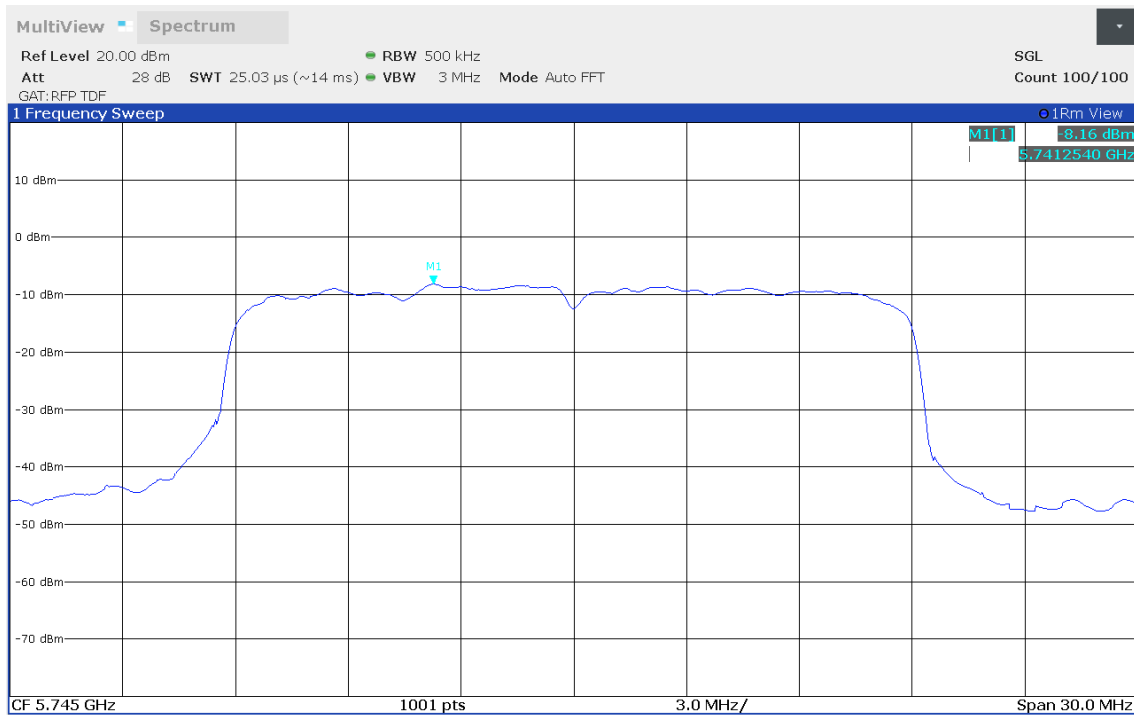
Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 140, 5700 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5697.662
 Spectral Density [dBm/RBW]: -7.768
 Resolution Bandwidth [MHz]: 1



11:40:49 09.10.2019

Maximum Power Spectral Density

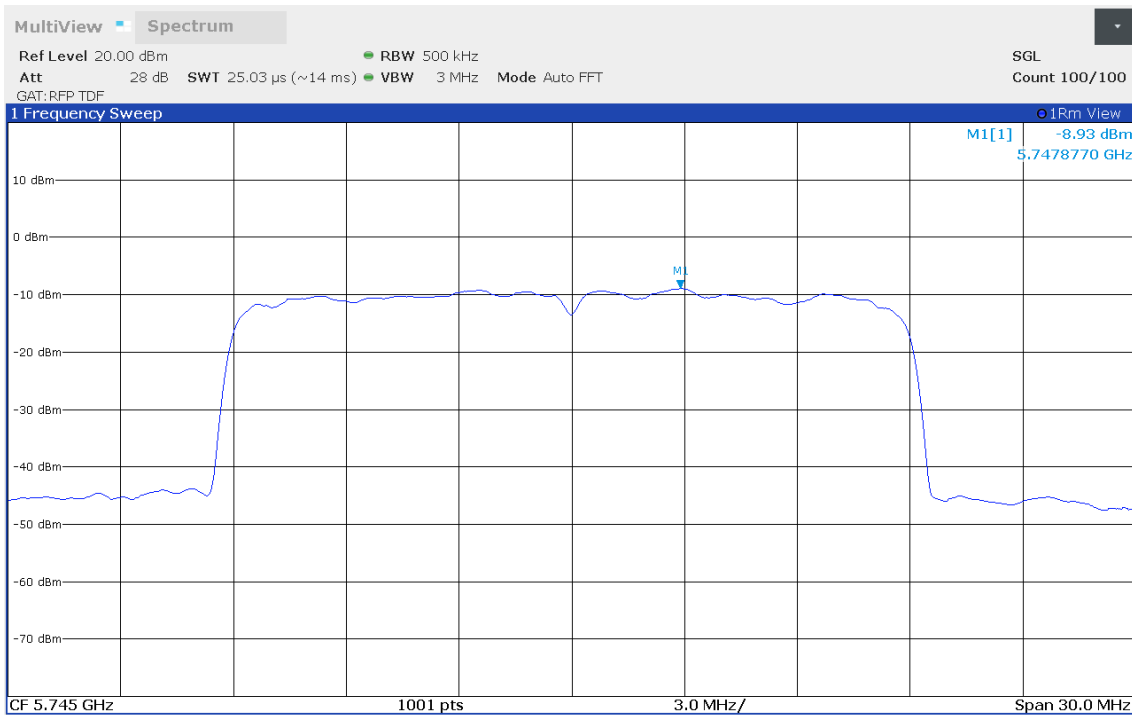
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5741.254
 Spectral Density [dBm/RBW]: -8.165
 Resolution Bandwidth [MHz]: 0.5



12:08:57 09.10.2019

Maximum Power Spectral Density

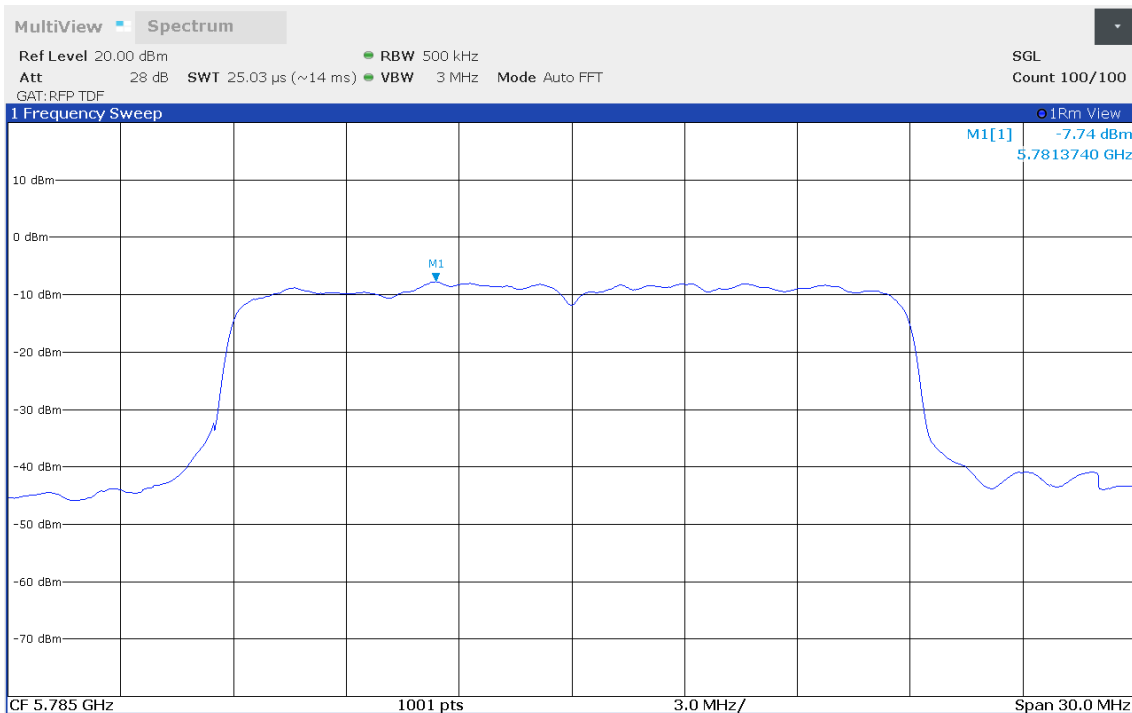
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5747.877
 Spectral Density [dBm/RBW]: -8.934
 Resolution Bandwidth [MHz]: 0.5



11:41:46 09.10.2019

Maximum Power Spectral Density

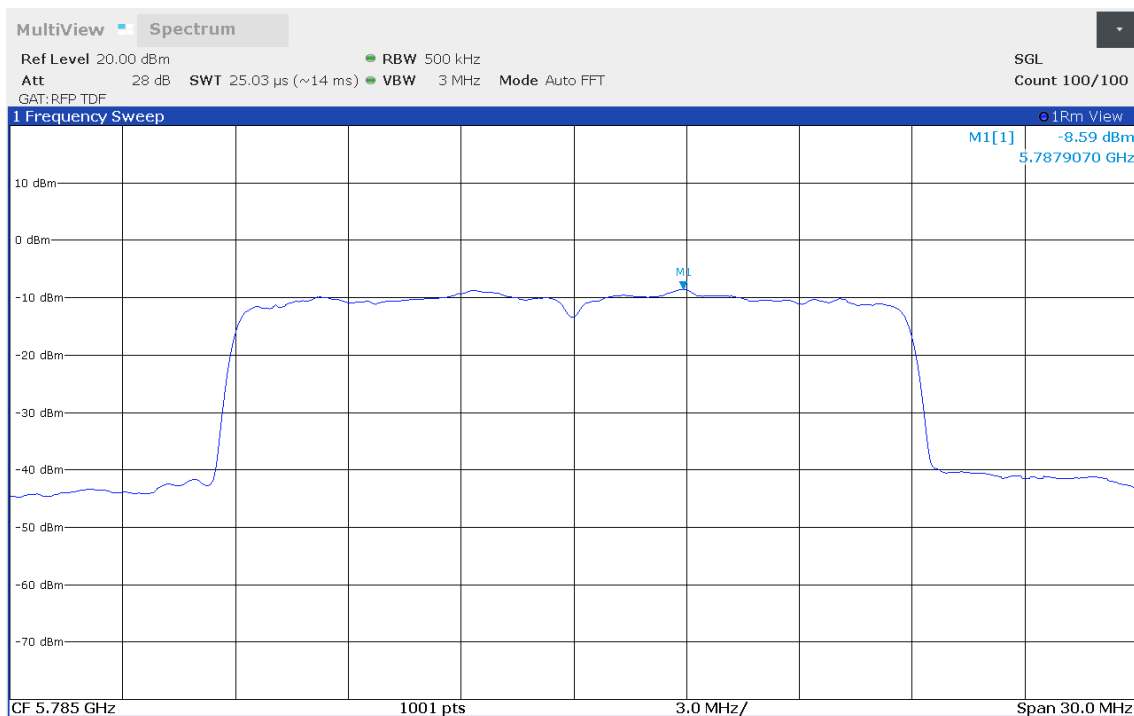
Project Number:	G0M-1905-8256
Applicant:	BIOTRONIK SE & Co. KG
Model Description:	programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
Model:	Renamic Neo
Test Sample ID:	24936
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ac (VHT20), Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Christian Weber
Test Site:	Eurofins Product Service GmbH
Test Date:	2019-10-09
Number of Antenna Ports:	1
Antenna Port(s):	B
Maximum Frequency [MHz]:	5781.374
Spectral Density [dBm/RBW]:	-7.739
Resolution Bandwidth [MHz]:	0.5



12:09:47 09.10.2019

Maximum Power Spectral Density

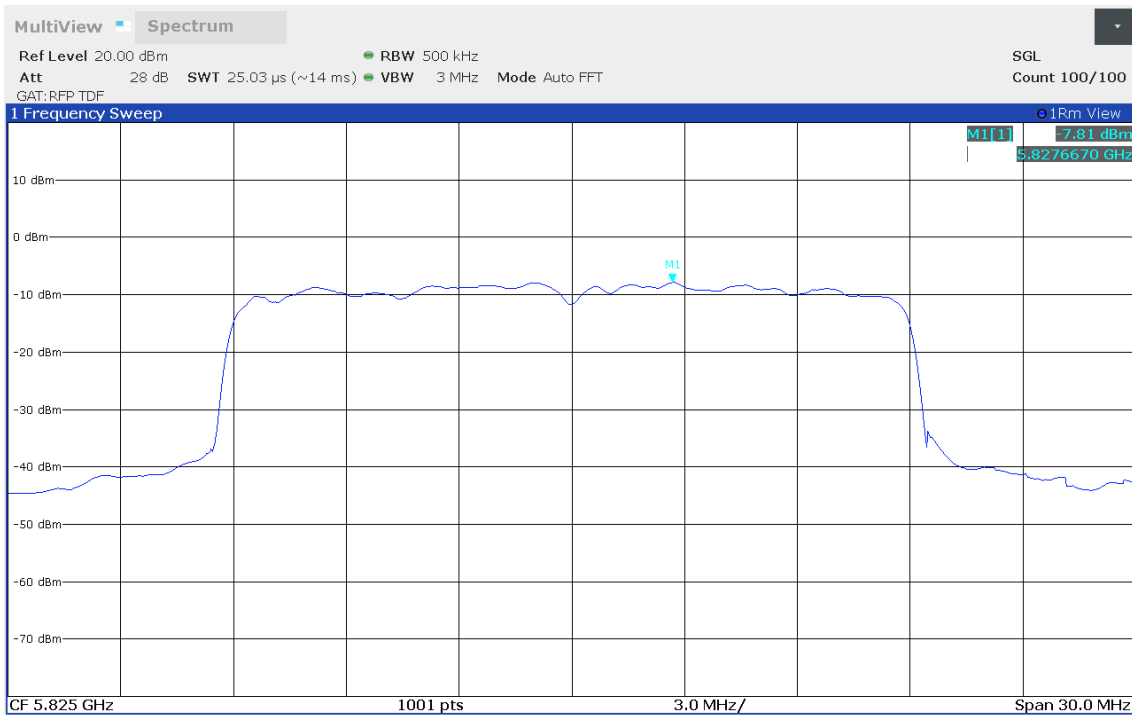
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5787.907
 Spectral Density [dBm/RBW]: -8.588
 Resolution Bandwidth [MHz]: 0.5



11:42:37 09.10.2019

Maximum Power Spectral Density

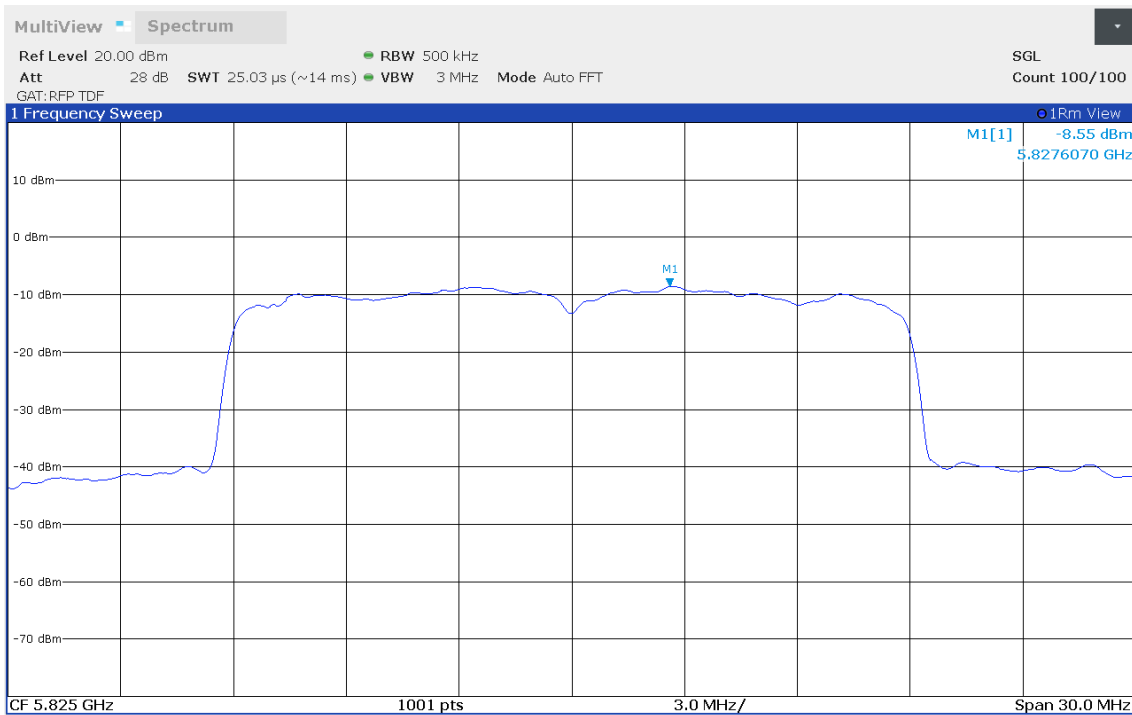
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): B
 Maximum Frequency [MHz]: 5827.667
 Spectral Density [dBm/RBW]: -7.810
 Resolution Bandwidth [MHz]: 0.5



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Maximum Power Spectral Density

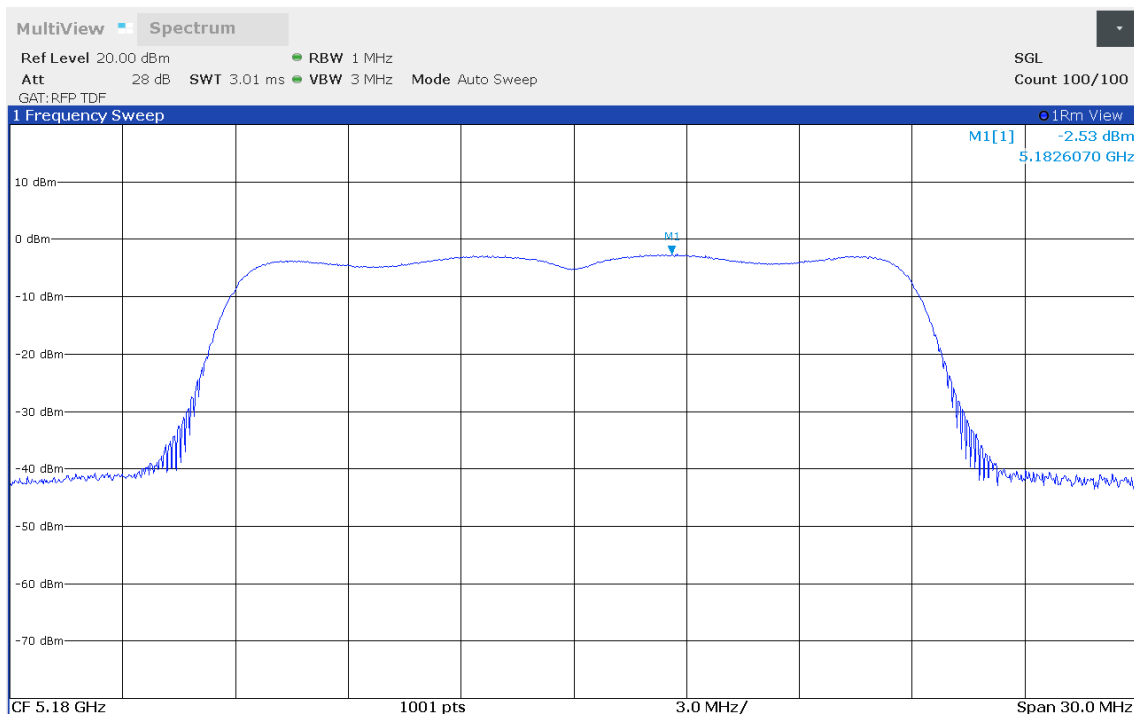
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 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 1
 Antenna Port(s): W
 Maximum Frequency [MHz]: 5827.607
 Spectral Density [dBm/RBW]: -8.553
 Resolution Bandwidth [MHz]: 0.5



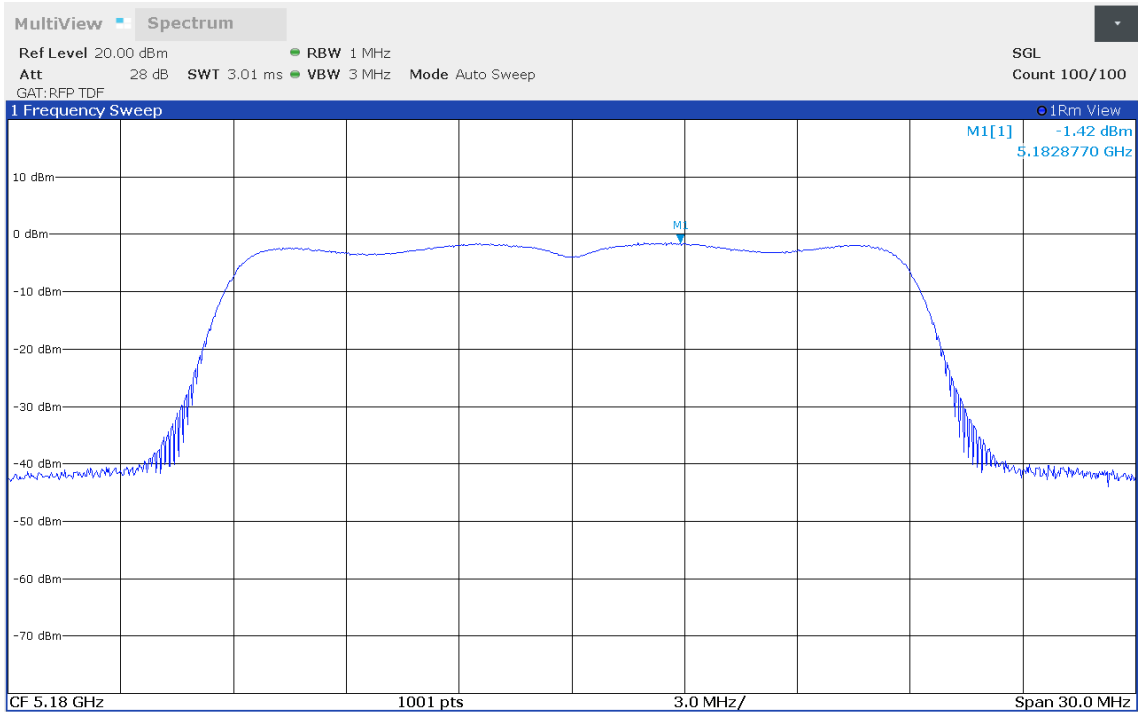
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 36, 5180 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5182.607
 Spectral Density 1 [dBm/RBW]: -2.525
 Maximum Frequency 2 [MHz]: 5182.877
 Spectral Density 2 [dBm/RBW]: -1.421
 Total Spectral Density [dBm/RBW]: 1.072
 Resolution Bandwidth [MHz]: 1



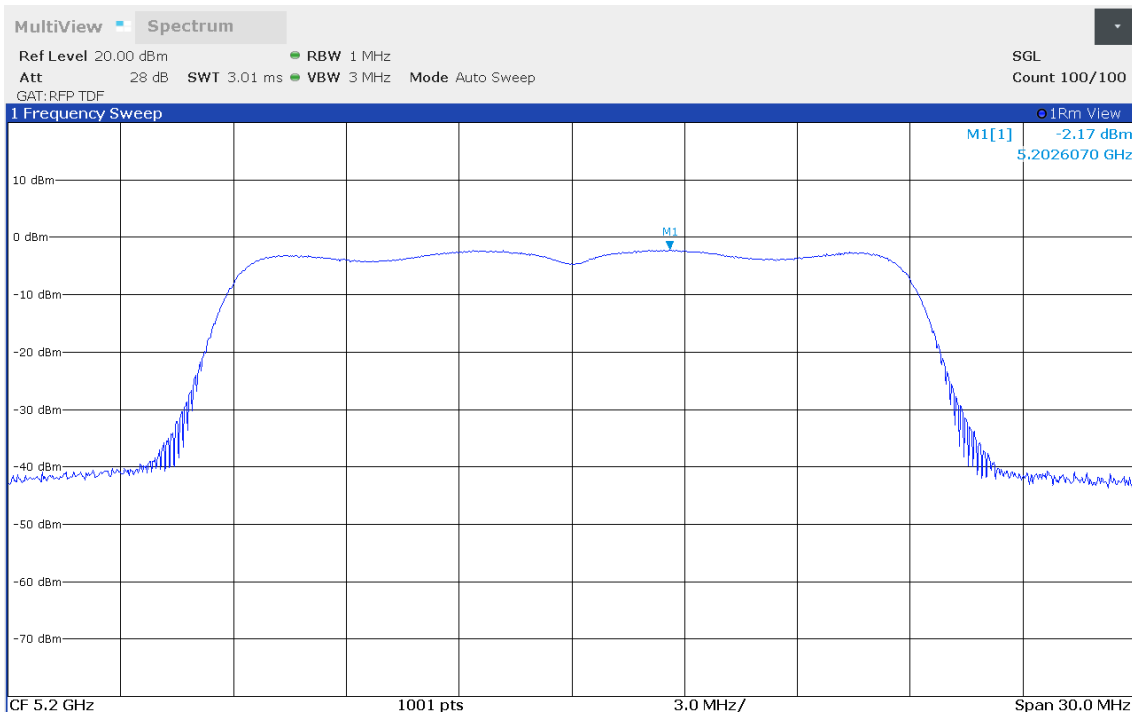
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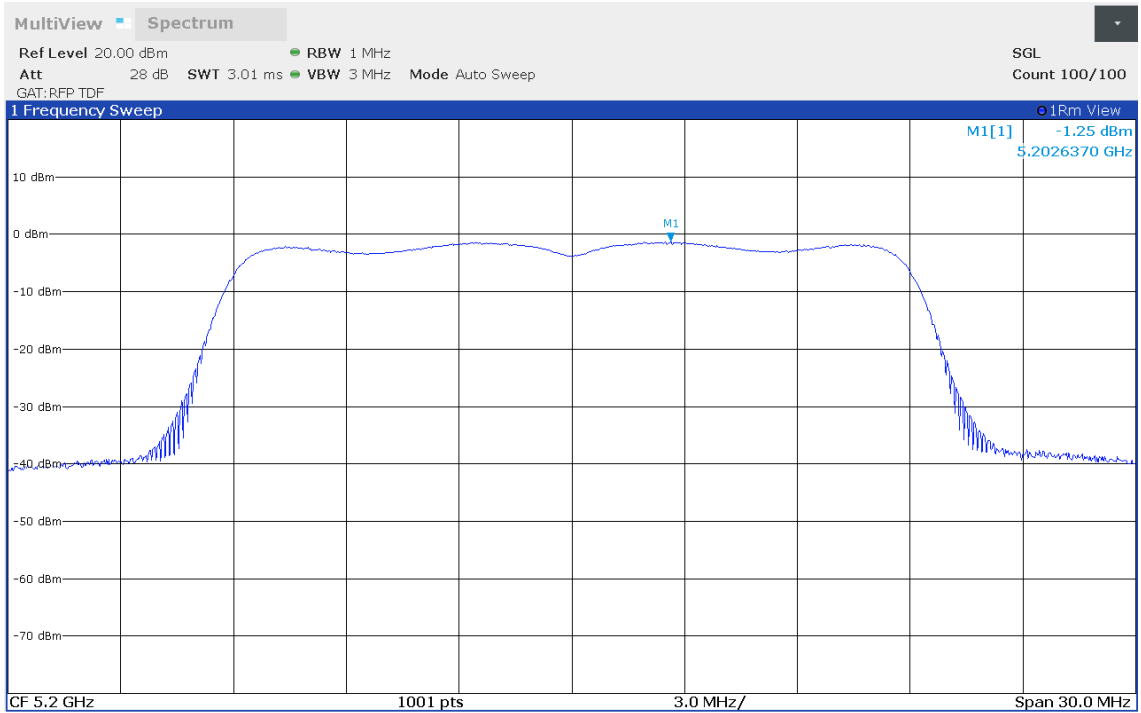
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 40, 5200 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5202.607
 Spectral Density 1 [dBm/RBW]: -2.173
 Maximum Frequency 2 [MHz]: 5202.637
 Spectral Density 2 [dBm/RBW]: -1.249
 Total Spectral Density [dBm/RBW]: 1.324
 Resolution Bandwidth [MHz]: 1



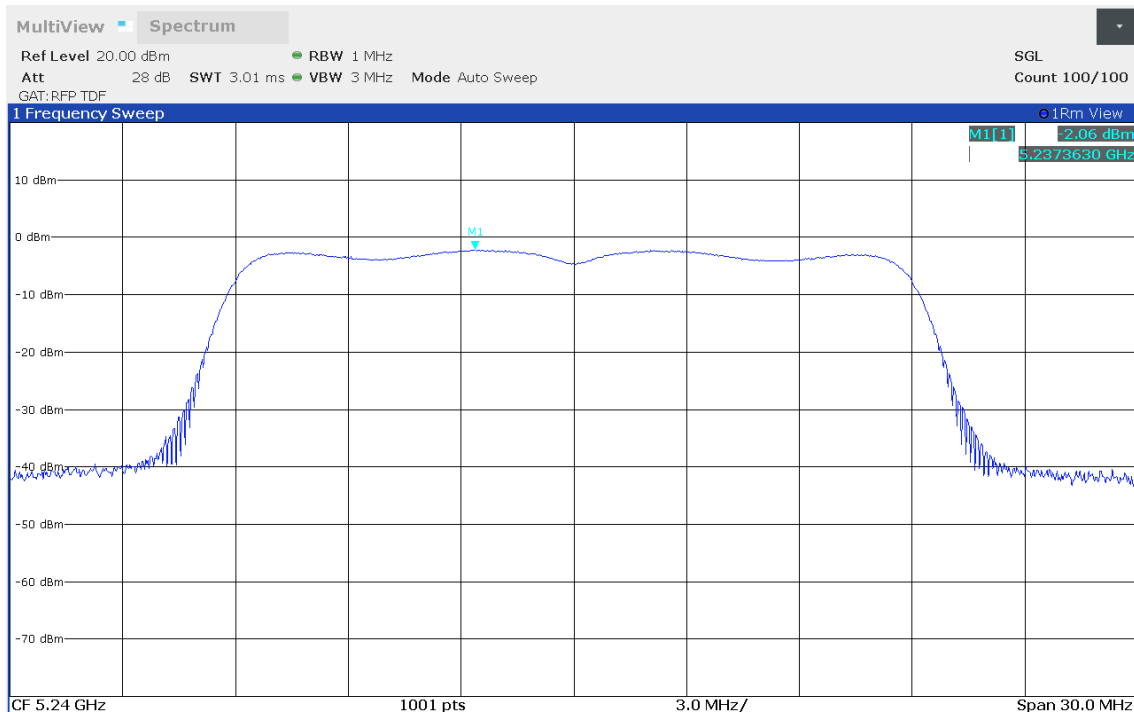
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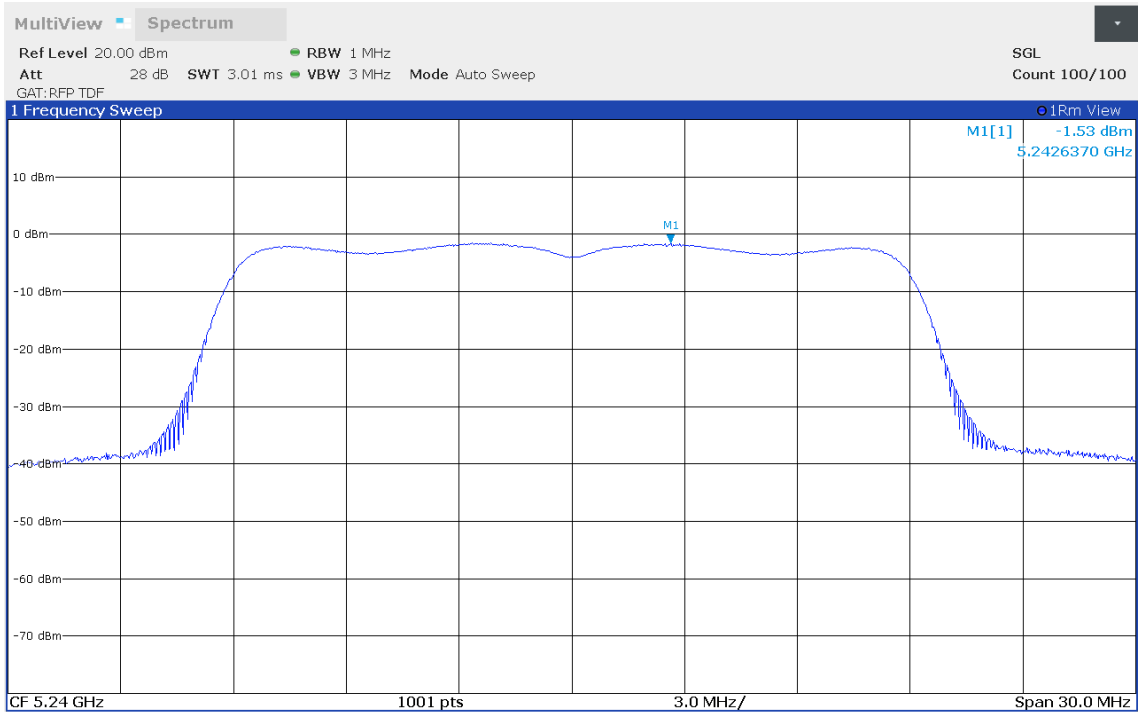
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 48, 5240 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5237.363
 Spectral Density 1 [dBm/RBW]: -2.058
 Maximum Frequency 2 [MHz]: 5242.637
 Spectral Density 2 [dBm/RBW]: -1.530
 Total Spectral Density [dBm/RBW]: 1.224
 Resolution Bandwidth [MHz]: 1



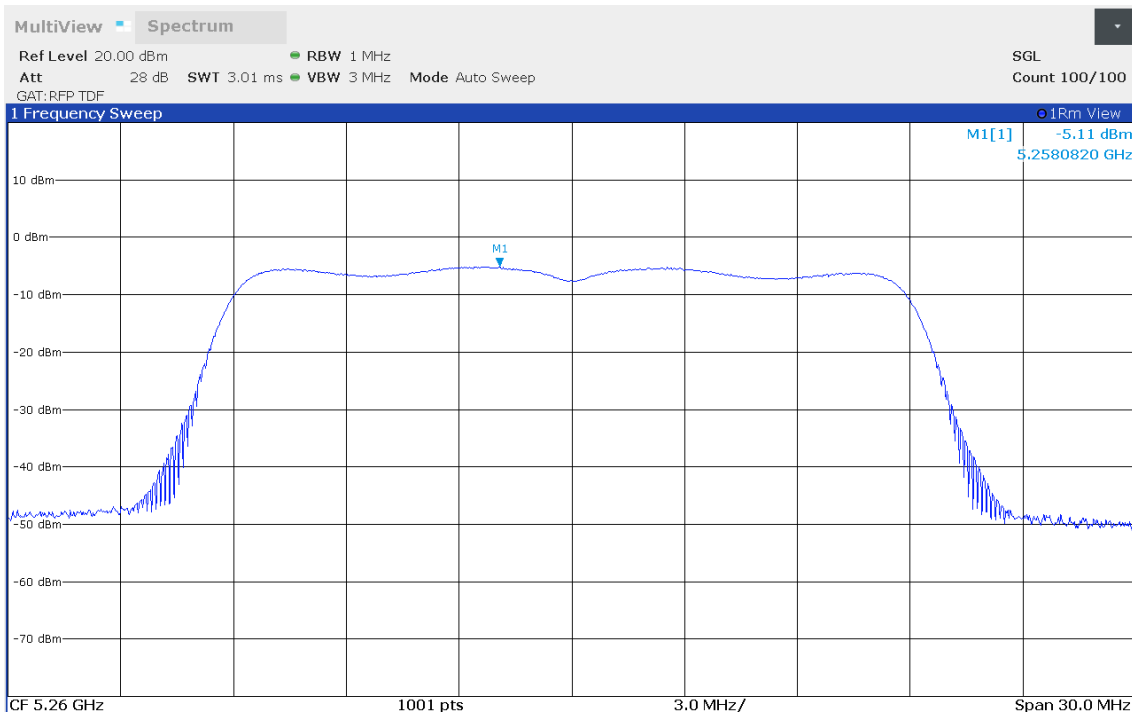
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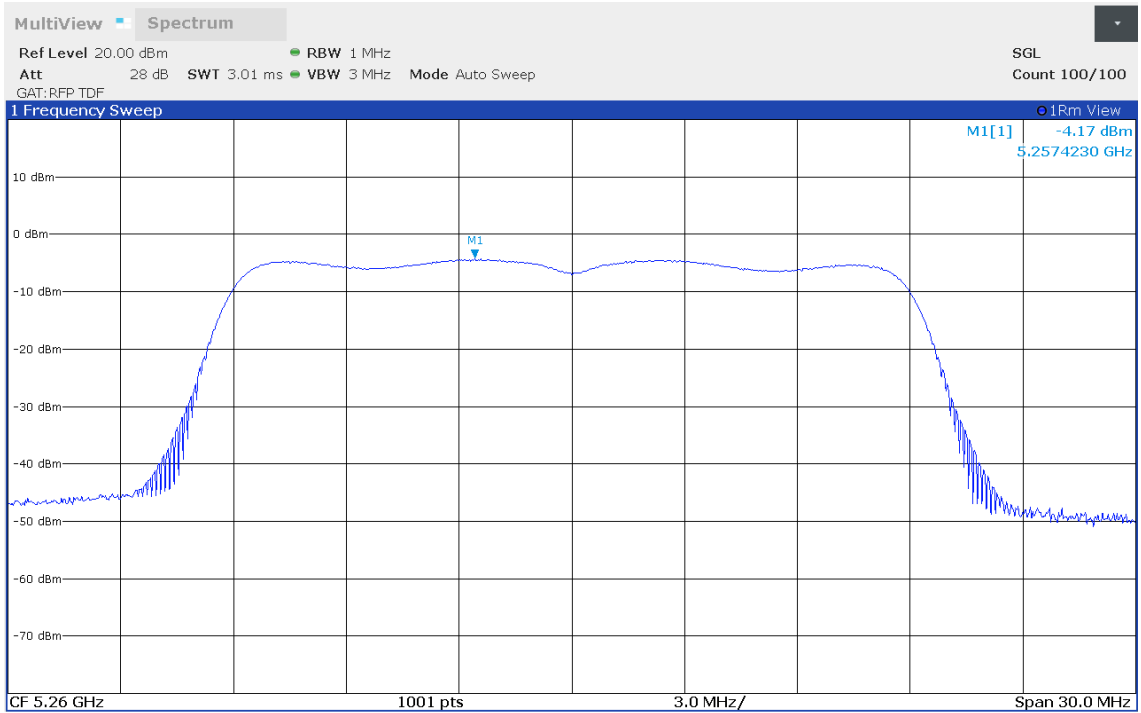
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 52, 5260 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5258.082
 Spectral Density 1 [dBm/RBW]: -5.113
 Maximum Frequency 2 [MHz]: 5257.423
 Spectral Density 2 [dBm/RBW]: -4.165
 Total Spectral Density [dBm/RBW]: -1.603
 Resolution Bandwidth [MHz]: 1



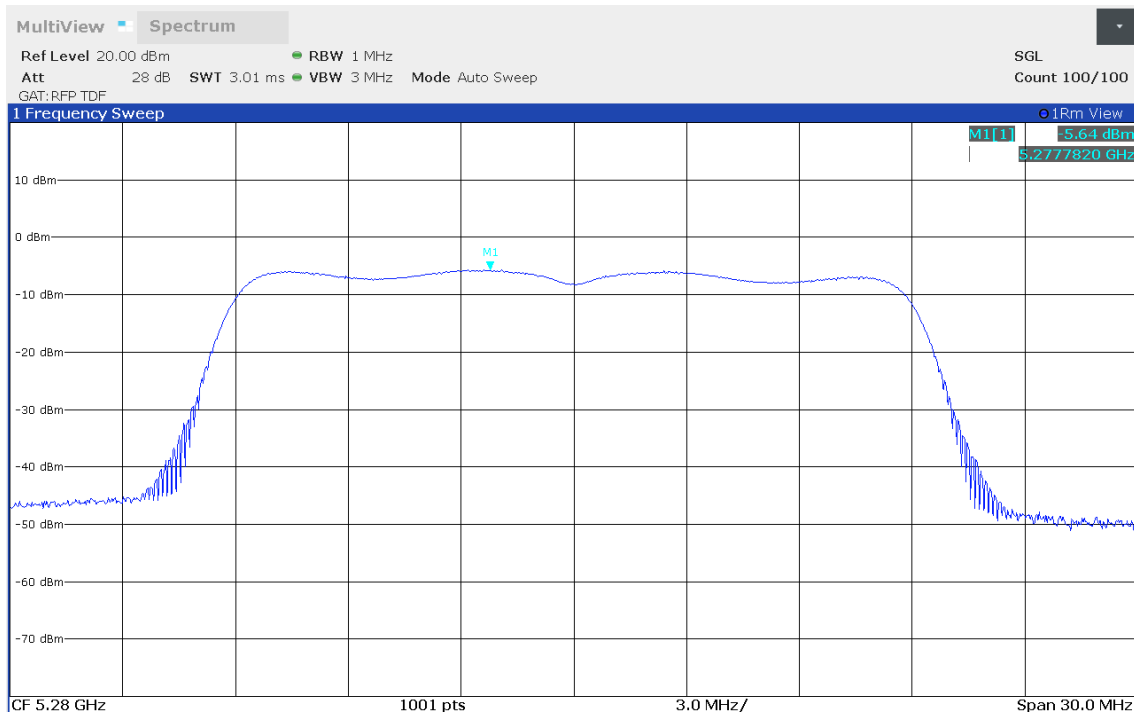
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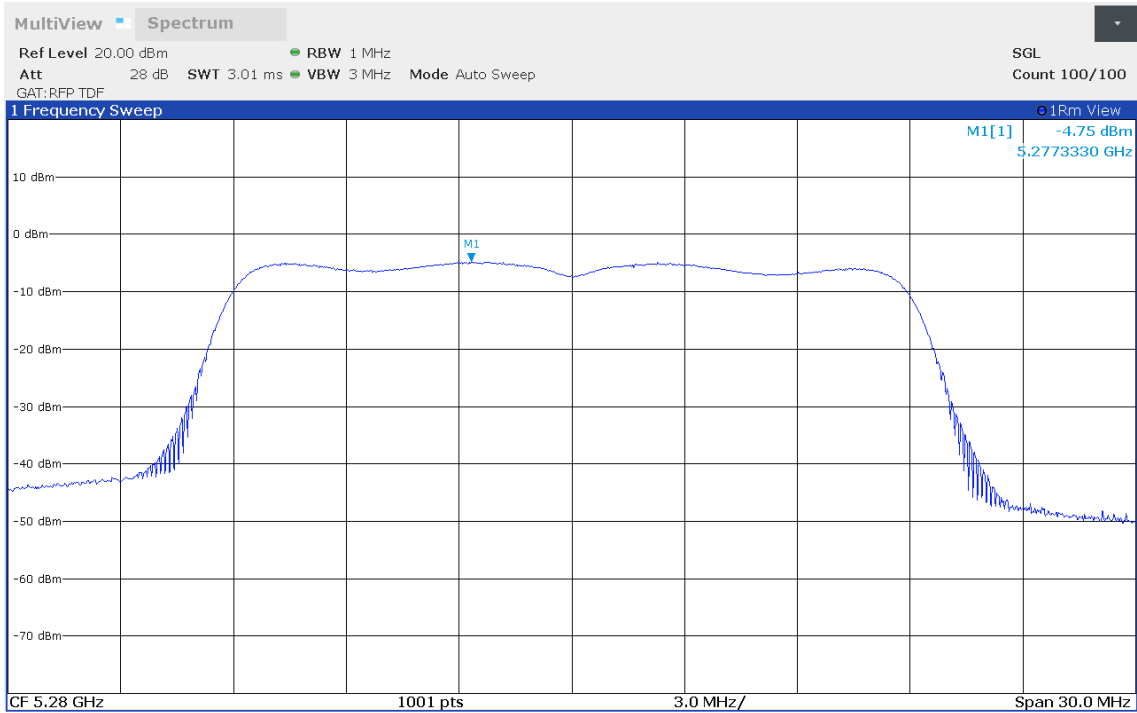
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 56, 5280 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5277.782
 Spectral Density 1 [dBm/RBW]: -5.644
 Maximum Frequency 2 [MHz]: 5277.333
 Spectral Density 2 [dBm/RBW]: -4.748
 Total Spectral Density [dBm/RBW]: -2.163
 Resolution Bandwidth [MHz]: 1



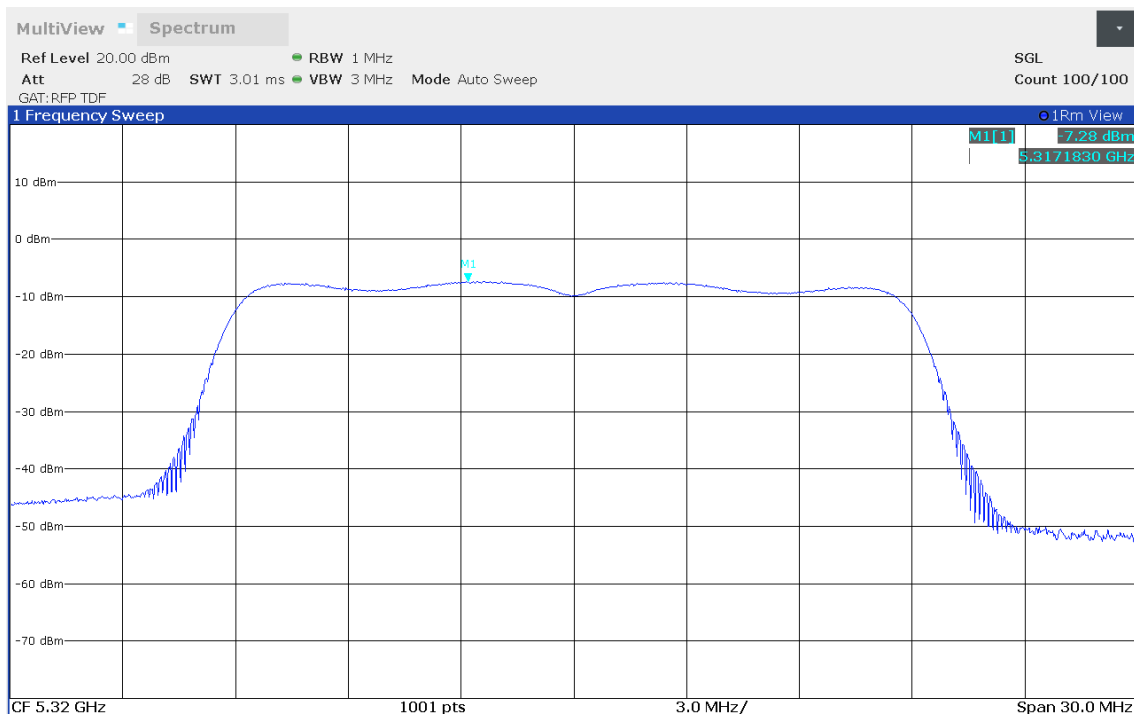
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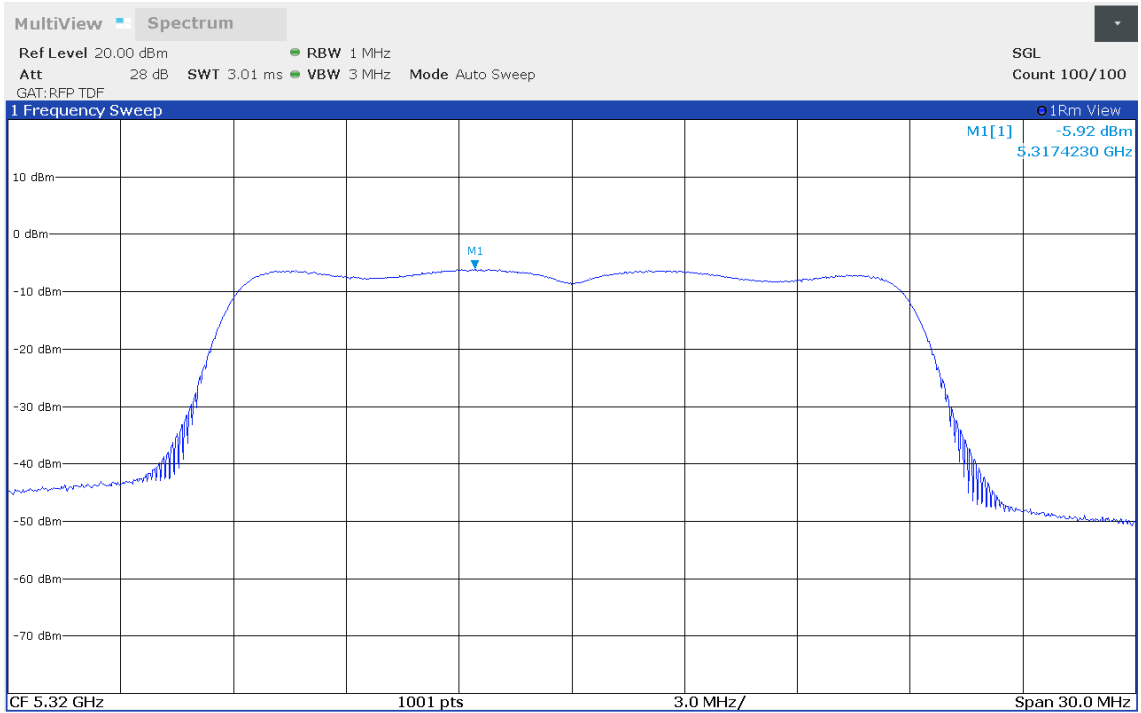
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 64, 5320 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5317.183
 Spectral Density 1 [dBm/RBW]: -7.282
 Maximum Frequency 2 [MHz]: 5317.423
 Spectral Density 2 [dBm/RBW]: -5.925
 Total Spectral Density [dBm/RBW]: -3.540
 Resolution Bandwidth [MHz]: 1



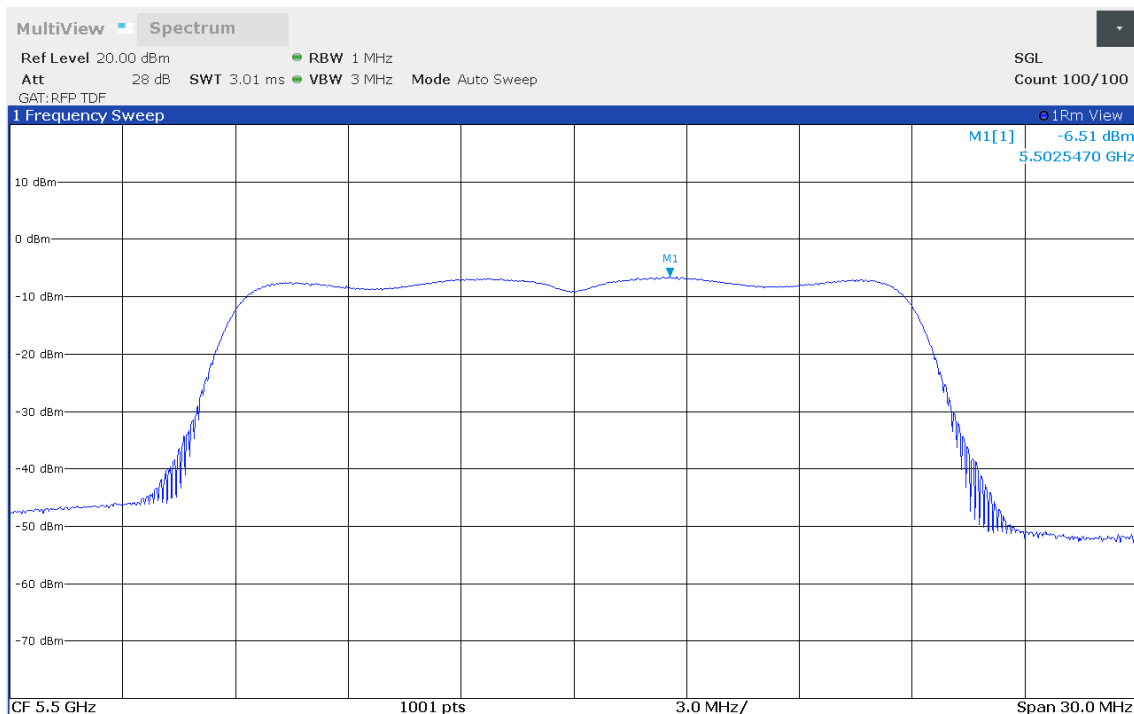
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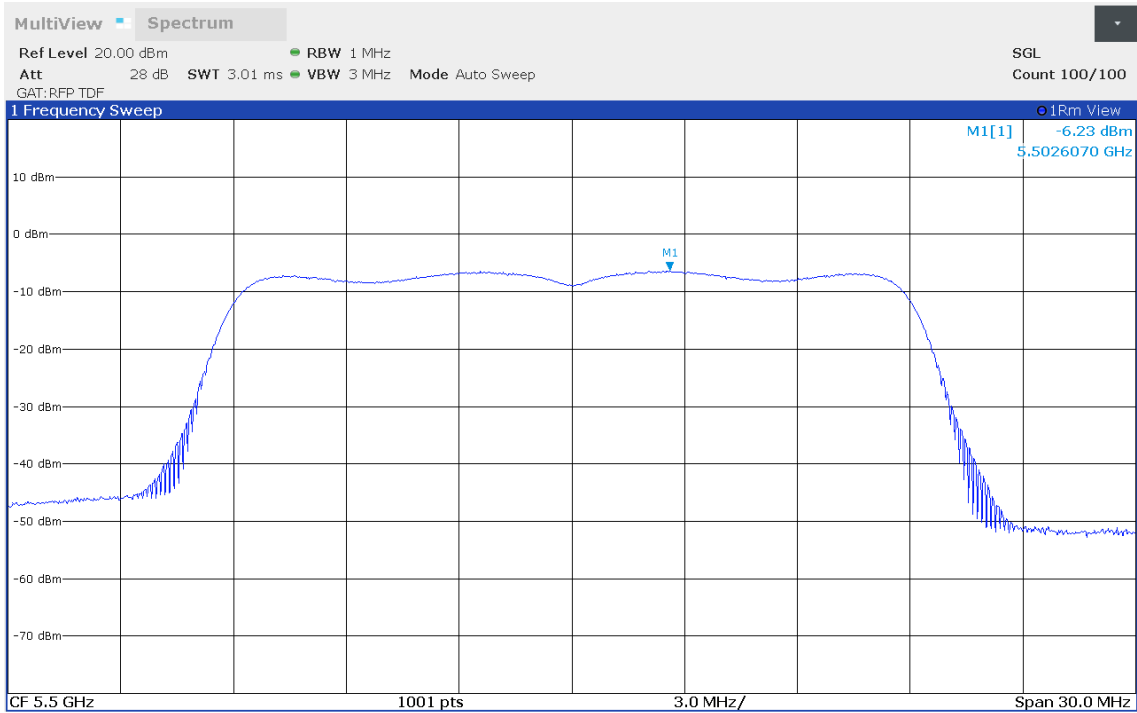
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 100, 5500 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5502.547
 Spectral Density 1 [dBm/RBW]: -6.506
 Maximum Frequency 2 [MHz]: 5502.607
 Spectral Density 2 [dBm/RBW]: -6.233
 Total Spectral Density [dBm/RBW]: -3.357
 Resolution Bandwidth [MHz]: 1



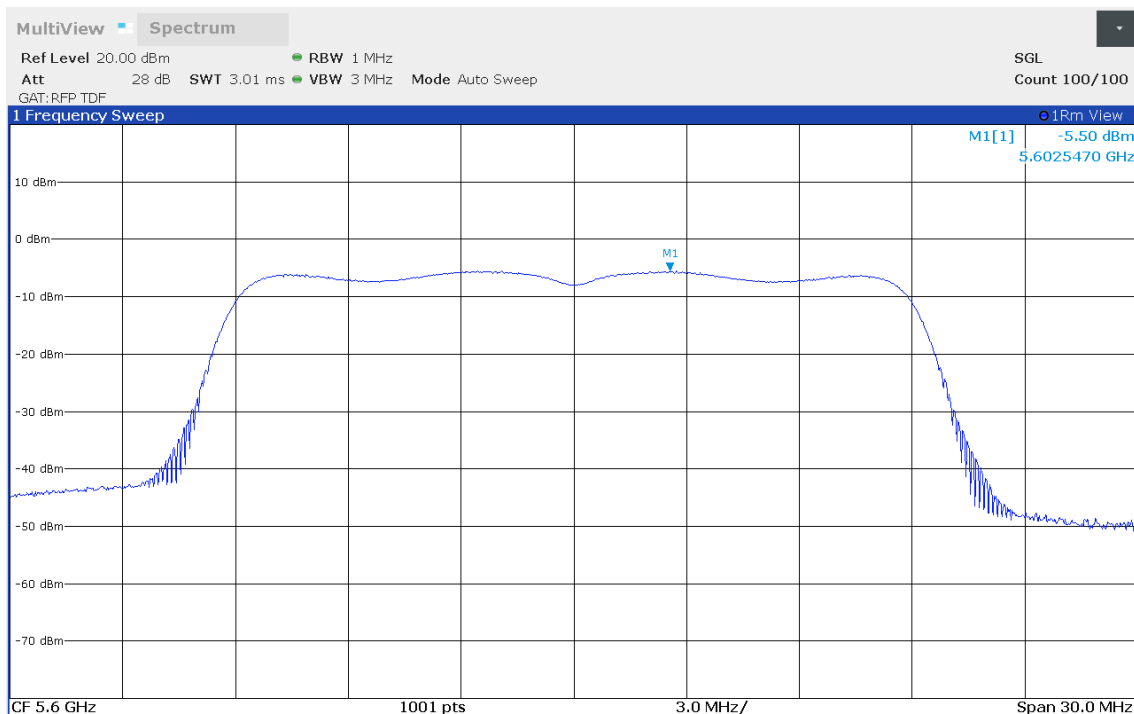
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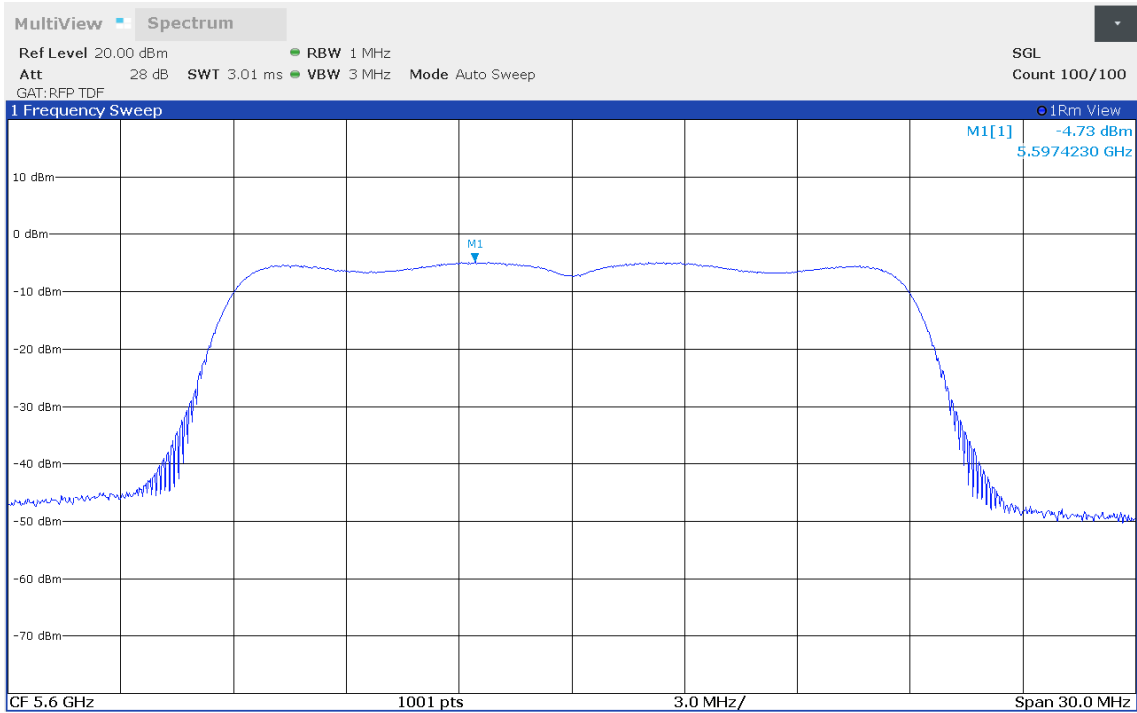
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 120, 5600 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5602.547
 Spectral Density 1 [dBm/RBW]: -5.499
 Maximum Frequency 2 [MHz]: 5597.423
 Spectral Density 2 [dBm/RBW]: -4.729
 Total Spectral Density [dBm/RBW]: -2.087
 Resolution Bandwidth [MHz]: 1



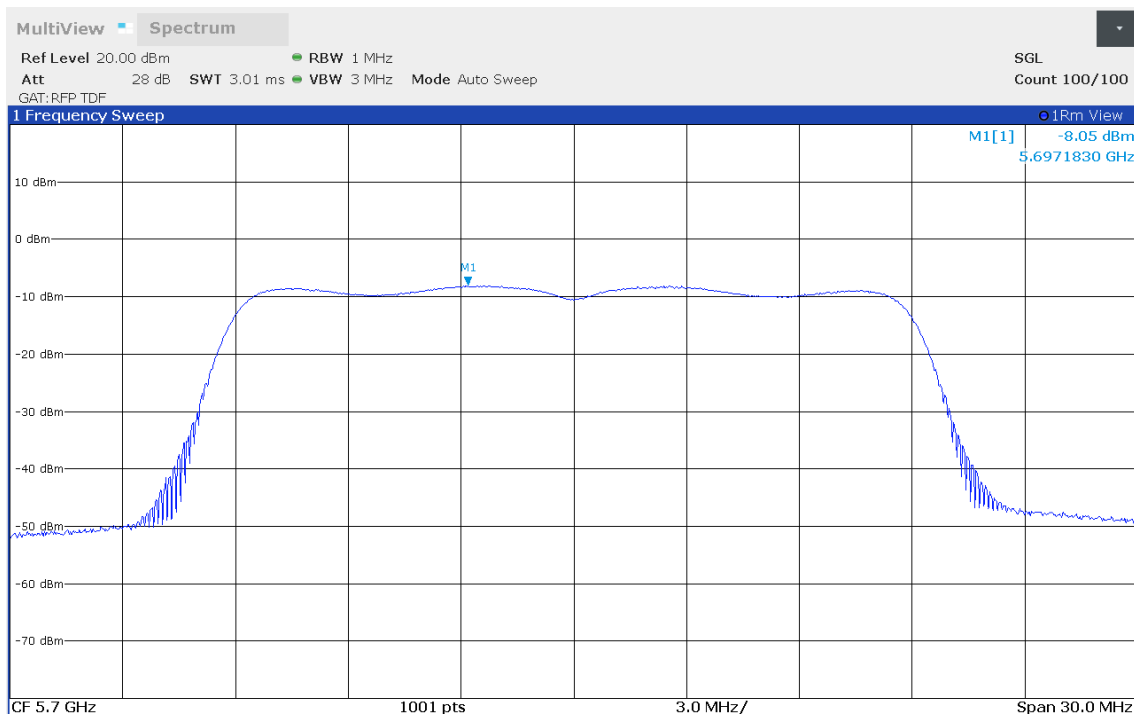
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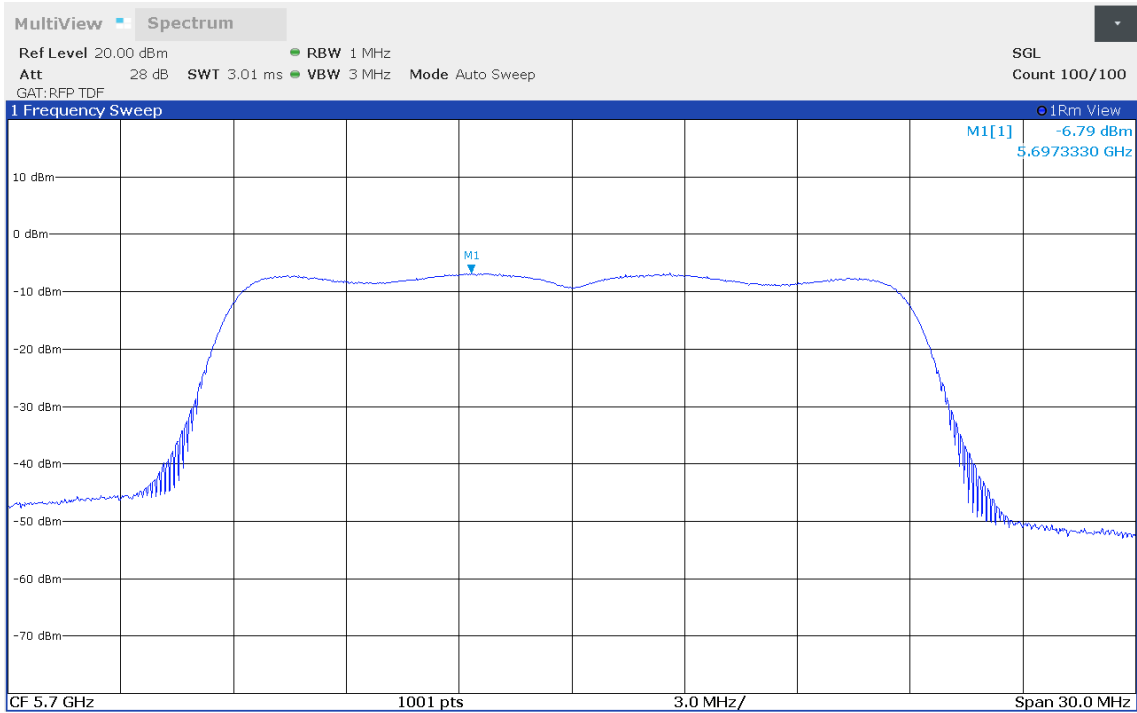
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 140, 5700 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5697.183
 Spectral Density 1 [dBm/RBW]: -8.048
 Maximum Frequency 2 [MHz]: 5697.333
 Spectral Density 2 [dBm/RBW]: -6.790
 Total Spectral Density [dBm/RBW]: -4.363
 Resolution Bandwidth [MHz]: 1



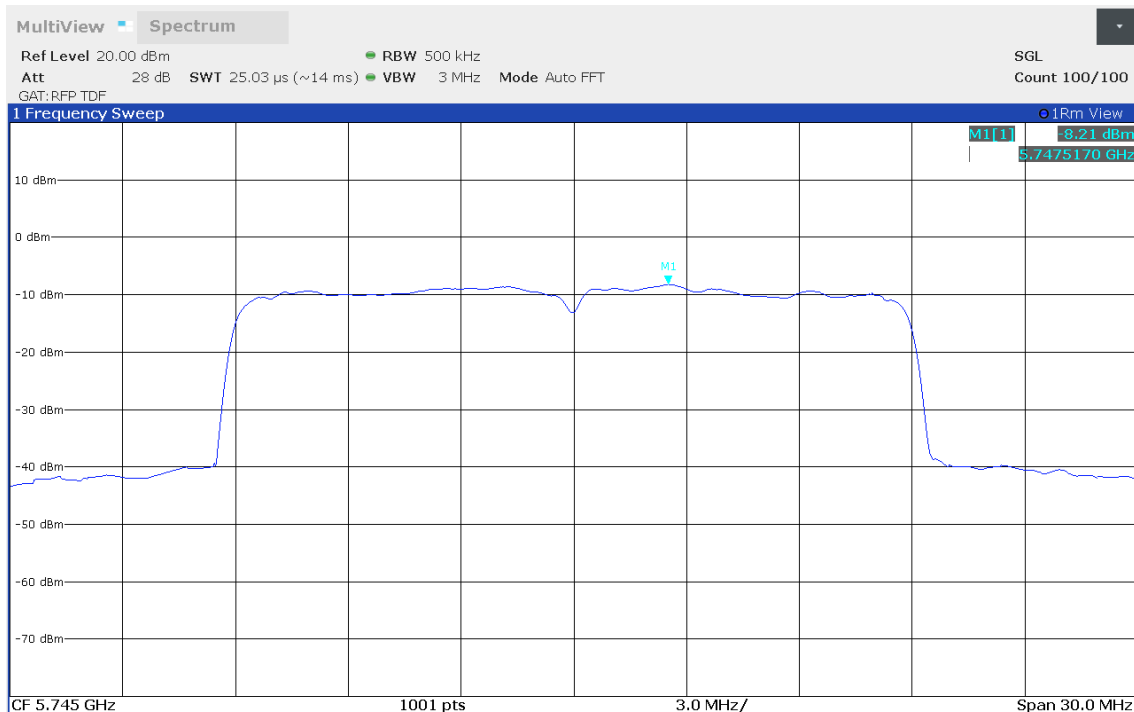
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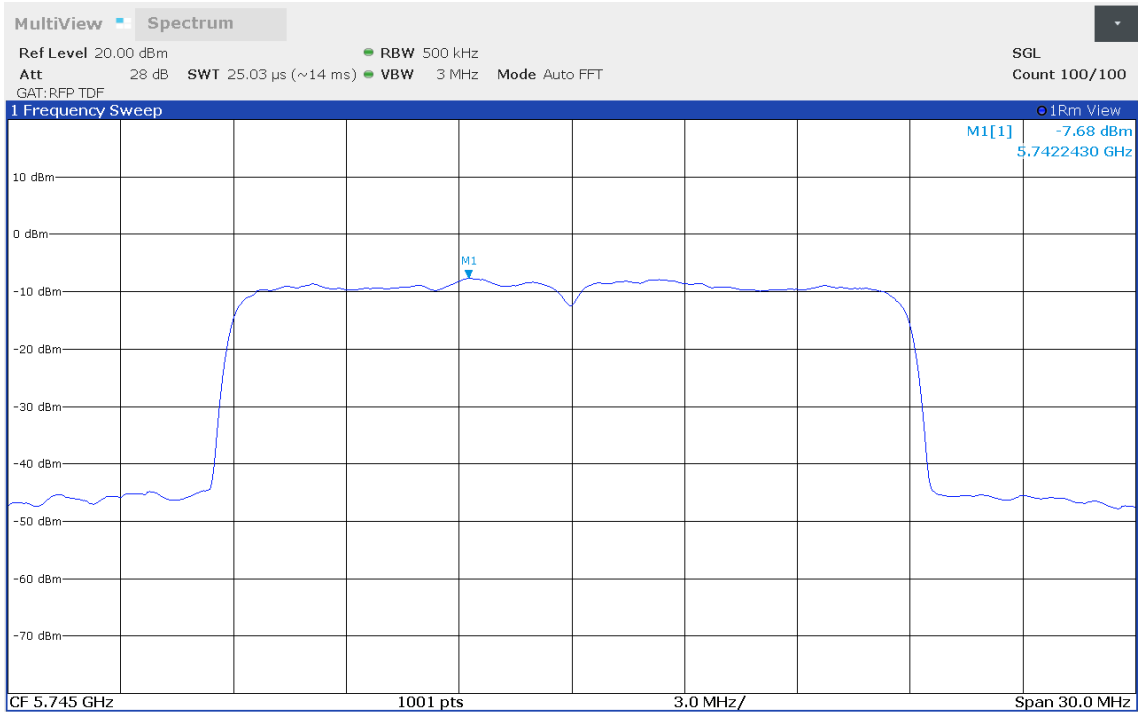
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5747.517
 Spectral Density 1 [dBm/RBW]: -8.206
 Maximum Frequency 2 [MHz]: 5742.243
 Spectral Density 2 [dBm/RBW]: -7.679
 Total Spectral Density [dBm/RBW]: -4.924
 Resolution Bandwidth [MHz]: 0.5



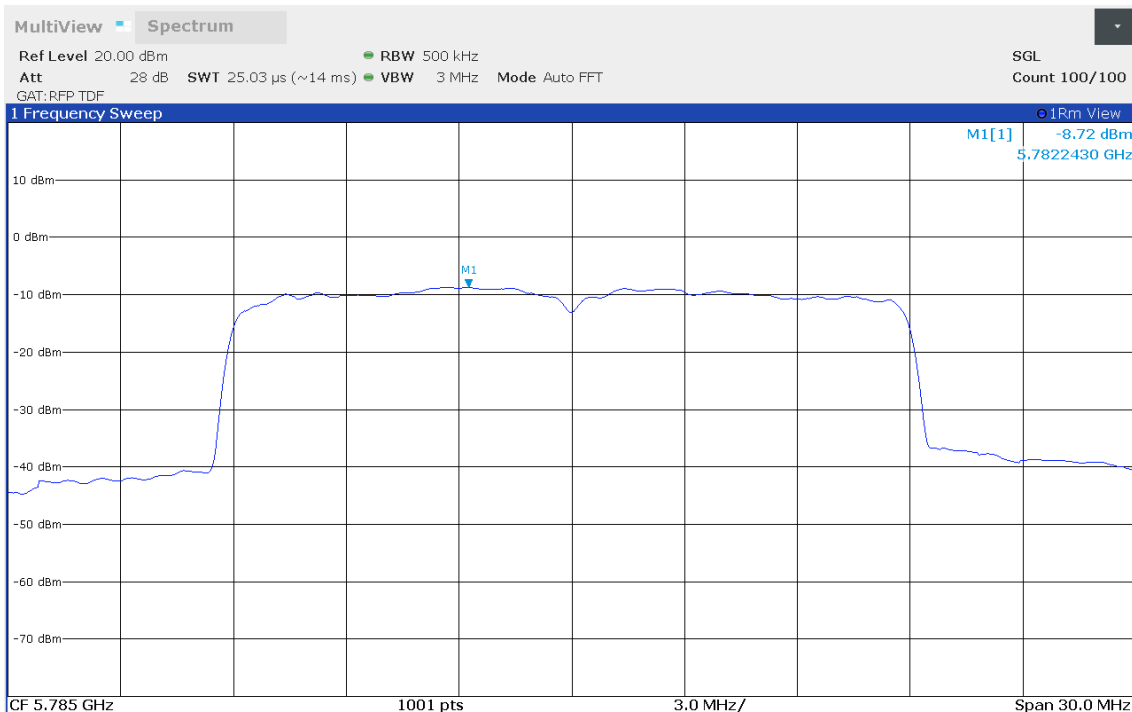
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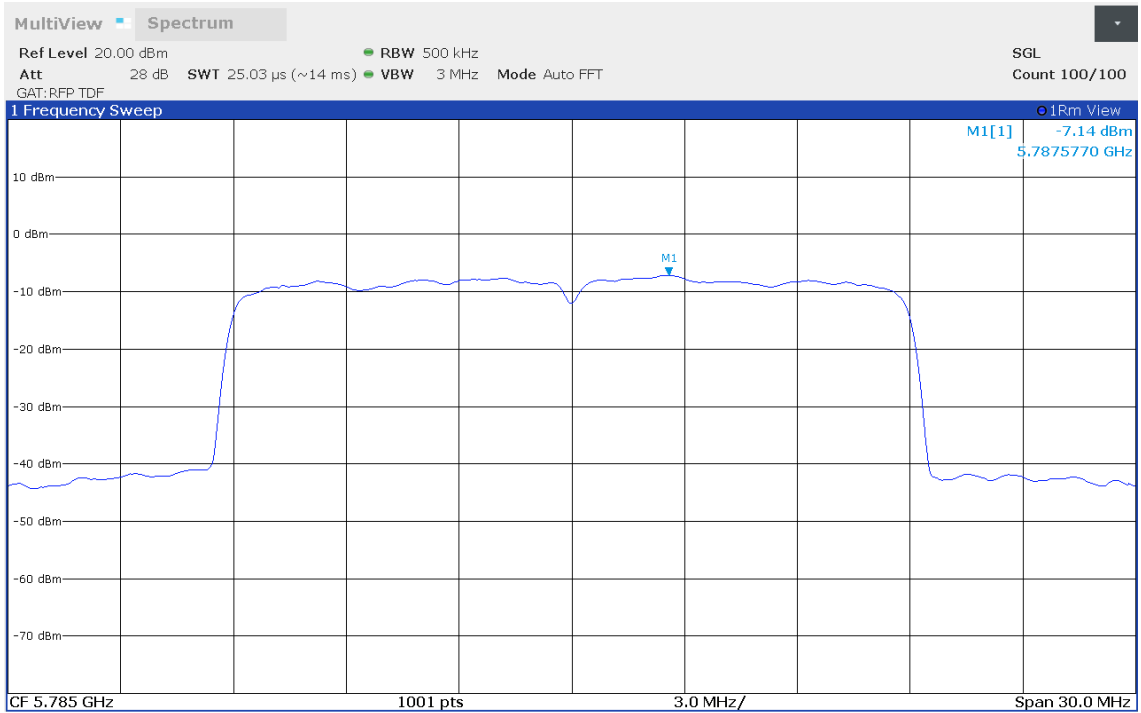
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5782.243
 Spectral Density 1 [dBm/RBW]: -8.721
 Maximum Frequency 2 [MHz]: 5787.577
 Spectral Density 2 [dBm/RBW]: -7.136
 Total Spectral Density [dBm/RBW]: -4.846
 Resolution Bandwidth [MHz]: 0.5



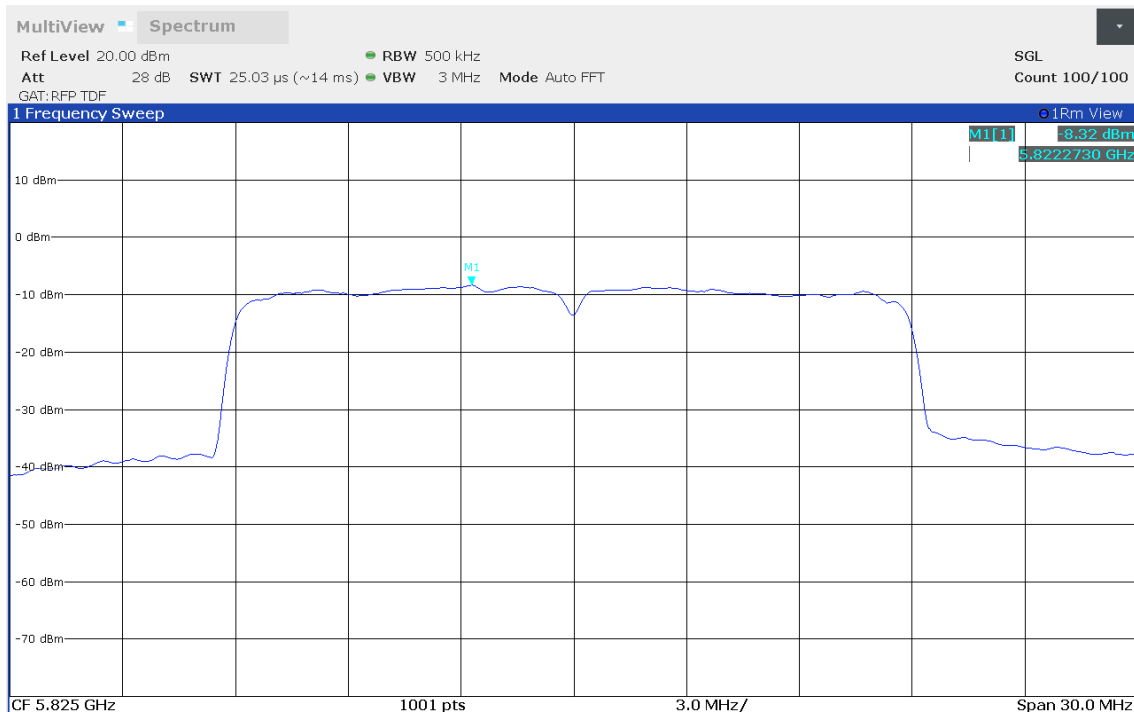
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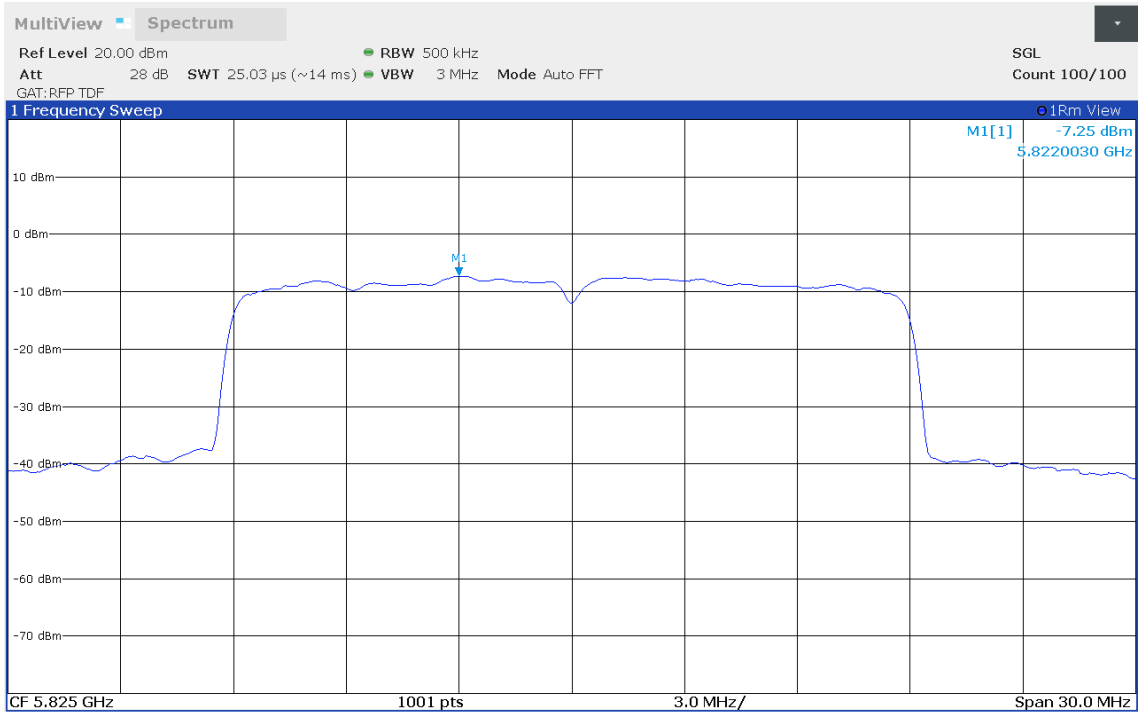
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Maximum Power Spectral Density

Project Number: G0M-1905-8256
 Applicant: BIOTRONIK SE & Co. KG
 Model Description: programming device for BIOTRONIK pacemakers, ICDs, CRT-devices and ICMs
 Model: Renamic Neo
 Test Sample ID: 24936
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ac (VHT20), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Christian Weber
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-10-09
 Number of Antenna Ports: 2
 Antenna Port(s): W+B
 Maximum Frequency 1 [MHz]: 5822.273
 Spectral Density 1 [dBm/RBW]: -8.321
 Maximum Frequency 2 [MHz]: 5822.003
 Spectral Density 2 [dBm/RBW]: -7.253
 Total Spectral Density [dBm/RBW]: -4.744
 Resolution Bandwidth [MHz]: 0.5



13:05:20 09.10.2019



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3.5 Test Conditions and Results - Frequency stability

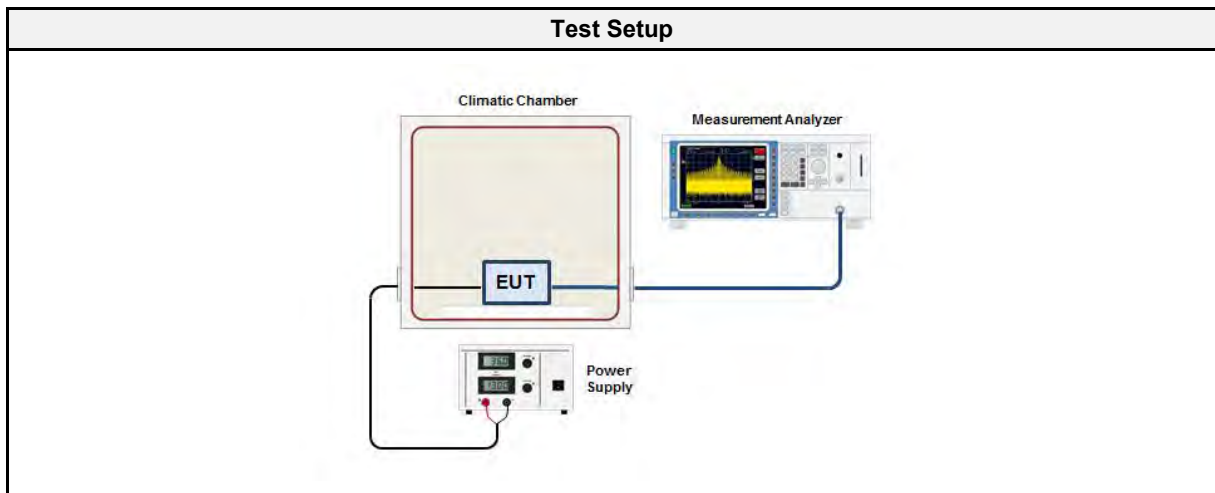
3.5.1 Information

Test Information	
Reference	FCC 15.407(g), KDB 789033 A.3
Measurement Method	ANSI C63.10 6.8
Operator	Christian Weber
Date	2019-10-10

3.5.2 Limits

Limits
Emission is maintained within the band of operation under all conditions of normal operation; The frequency deviation combined with the 26 dB bandwidth edges must be within the assigned frequency band

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW 43	EF00896	2019-07	2020-07
Climatic chamber	Vötsch	VT 4010	EF00134	2019-08	2020-08

3.5.5 Procedure

Test Procedure with respect to ambient temperature
<ol style="list-style-type: none"> 1. The EUT is turned off and placed inside the temperature chamber 2. The temperature chamber is set to the highest operating temperature 3. The EUT is turned on at nominal supply voltage and the carrier frequency is measured at startup, at 2 minutes, 5 minutes and 10 minutes after EUT is energized 4. The EUT is turned off again 5. The temperature of the chamber is lowered by 10 °C 6. The carrier frequency measurement is repeated after temperature has stabilized 7. The procedure is repeated until the lowest operating frequency is reached

Test Procedure when varying supply voltage
<ol style="list-style-type: none"> 1. The EUT is supplied with nominal supply voltage or a fully charged battery at room temperature (15 to 25 °C) 2. The carrier frequency is measured 3. The procedure is repeated at 85 % and 115 % of the nominal supply voltage or at the battery endpoint for battery operated equipment

Test Procedure of carrier frequency measurement
<ol style="list-style-type: none"> 1. The emission spectrum is measured using a resolution band width of 100 kHz with peak detection and maximum hold 2. The peak of the emission spectrum is determined 3. The left most frequency f_1 10 dB below the peak emission is searched 4. The right most frequency f_2 10 dB below the peak emission is searched 5. The center frequency is calculated from $f_c = (f_1+f_2)/2$ 6. The center frequency and the deviation from the nominal center frequency are recorded

3.5.6 Results

Test Results - 5180 MHz - Variation of ambient temperature						
Channel	Nominal Frequency [MHz]	Voltage [V]	Temperature [°C]	Time after activation	Frequency [MHz]	Deviation [kHz]
36	5180	120	40	0	5179.972429	-27.571
36	5180	120	40	2	5179.976584	-23.416
36	5180	120	40	5	5179.977197	-22.803
36	5180	120	40	10	5179.977594	-22.406
36	5180	120	30	0	5179.973944	-26.056
36	5180	120	30	2	5179.974233	-25.767
36	5180	120	30	5	5179.974313	-25.687
36	5180	120	30	10	5179.974554	-25.446
36	5180	120	20	0	5179.973703	-26.297
36	5180	120	20	2	5179.973306	-26.694
36	5180	120	20	5	5179.973549	-26.451
36	5180	120	20	10	5179.974122	-25.878
36	5180	120	10	0	5179.981312	-18.688
36	5180	120	10	2	5179.973443	-26.557
36	5180	120	10	5	5179.973052	-26.948
36	5180	120	10	10	5179.972990	-27.010
36	5180	120	0	0	5179.985038	-14.962
36	5180	120	0	2	5179.974960	-25.040
36	5180	120	0	5	5179.974445	-25.555
36	5180	120	0	10	5179.974399	-25.601

Test Results - 5180 MHz - Variation of supply voltage					
Channel	Nominal Frequency [MHz]	Voltage [V]	Temperature [°C]	Frequency [MHz]	Deviation [kHz]
36	5180	138	20	5179.972652	-27.348
36	5180	102	20	5179.973030	-26.970