

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090419\
 Data File : VX012063.D
 Acq On : 04 Sep 2019 20:26
 Operator : SY/SP
 Sample : K4545-01
 Misc : 4.73g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T16-17-E2-(0)

Quant Time: Sep 05 05:26:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

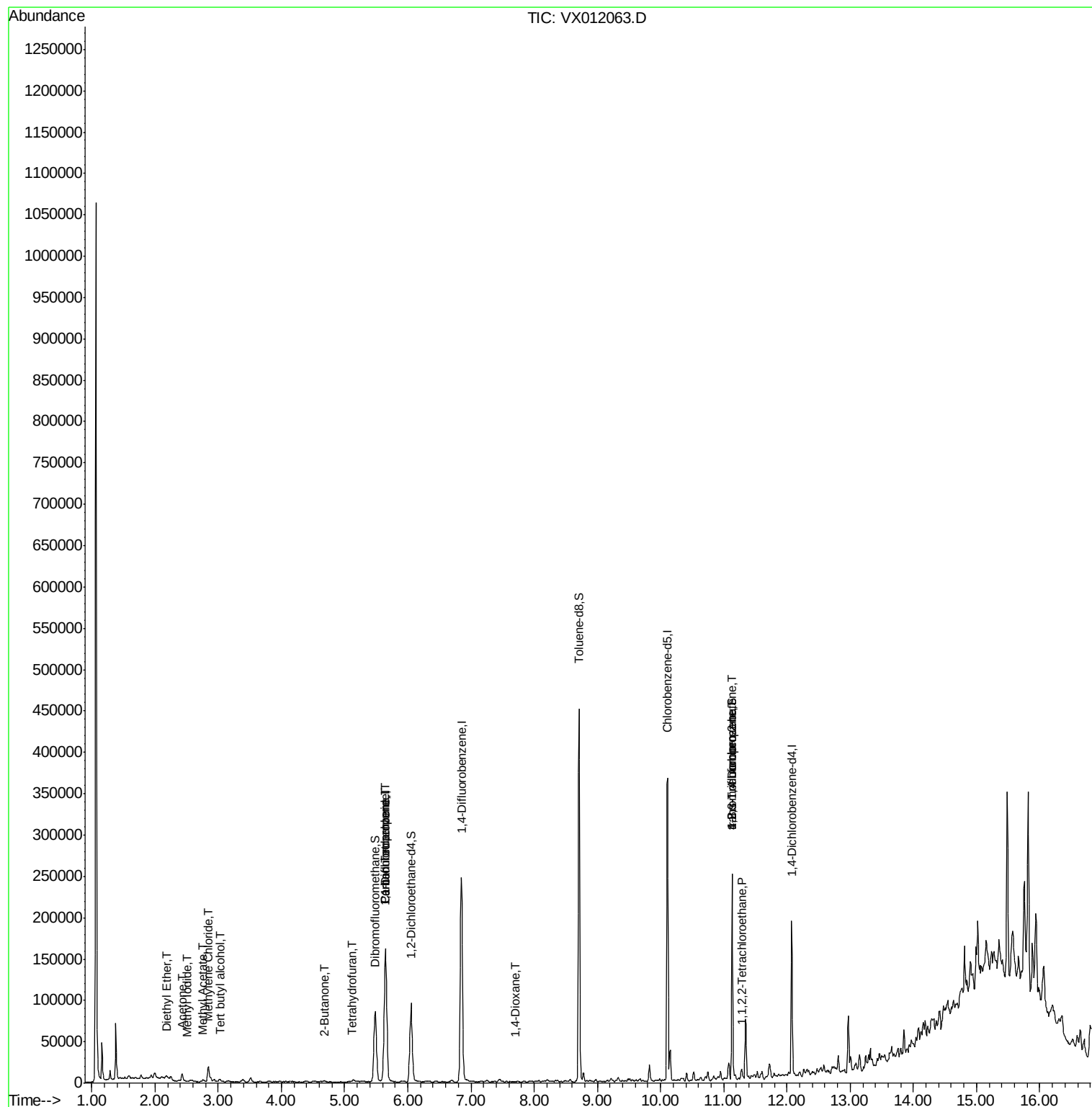
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	137373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	238468	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	161720	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	33554	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	93459	49.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.62%	
35) Dibromofluoromethane	5.48	113	71826	48.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.96%	
50) Toluene-d8	8.71	98	253802	47.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.32%	
62) 4-Bromofluorobenzene	11.13	95	69148	27.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	55.26%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.17	74	815	1.244	ug/l	59
10) Methyl Iodide	2.50	142	92	7.044	ug/l #	40
11) Tert butyl alcohol	3.02	59	3731	20.493	ug/l #	77
13) Acrolein	2.28	56	80	Below Cal	#	12
16) Acetone	2.43	43	10478	23.127	ug/l	100
18) Methyl Acetate	2.76	43	1455	1.363	ug/l	93
20) Methylene Chloride	2.84	84	8677	4.769	ug/l	98
25) 2-Butanone	4.68	43	947	1.642	ug/l	97
29) Tetrahydrofuran	5.12	42	1070	3.079	ug/l #	2
36) 1,1-Dichloropropene	5.64	75	12459	5.932	ug/l #	49
38) Carbon Tetrachloride	5.65	117	16201	7.320	ug/l #	14
49) 1,4-Dioxane	7.69	88	42	2.639	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	11.28	83	710	1.383	ug/l #	92
76) 1,2,3-Trichloropropane	11.13	75	35298	86.097	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	35298	203.547	ug/l #	10

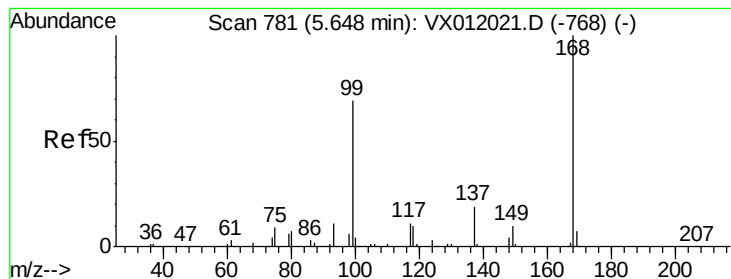
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

Instrument :

MSVOA_X

ClientSampleId :

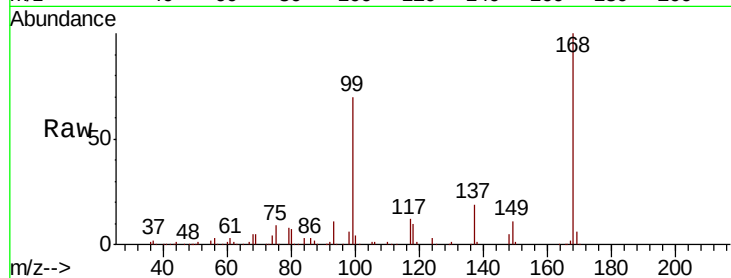
T16-17-E2-(0)

Tgt Ion:168 Resp: 137373

Ion Ratio Lower Upper

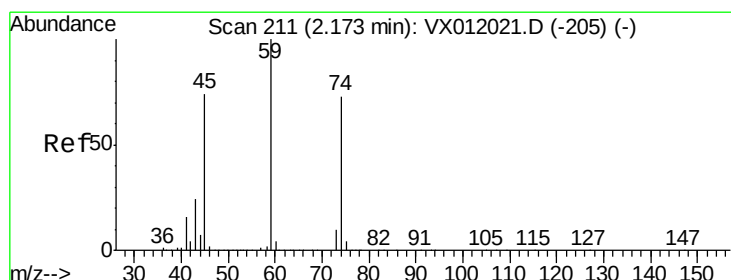
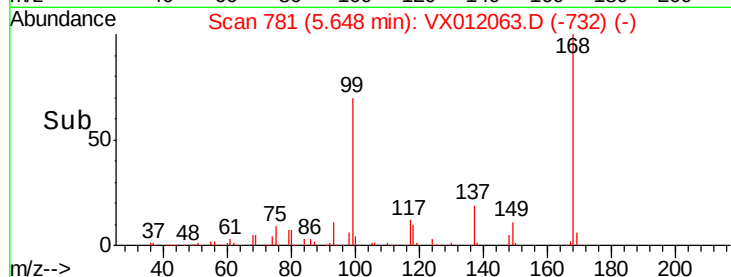
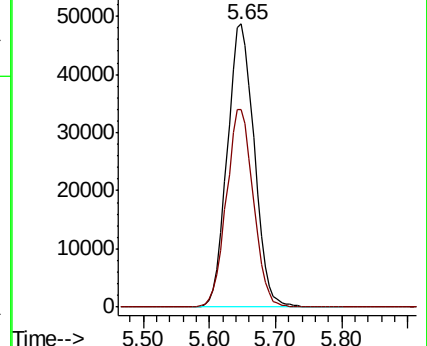
168 100

99 69.6 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.244 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012063.D

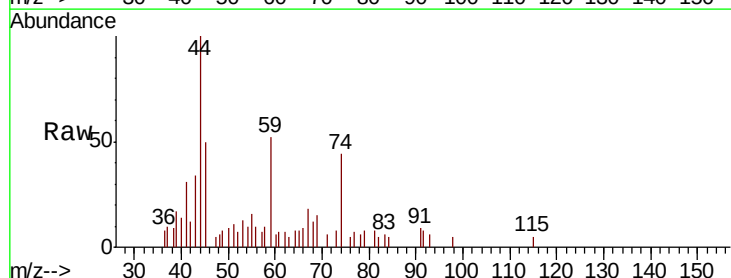
Acq: 04 Sep 2019 20:26

Tgt Ion: 74 Resp: 815

Ion Ratio Lower Upper

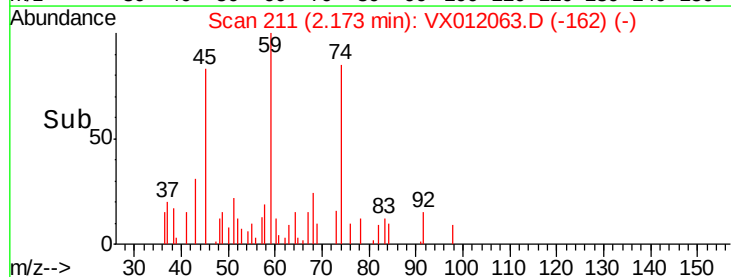
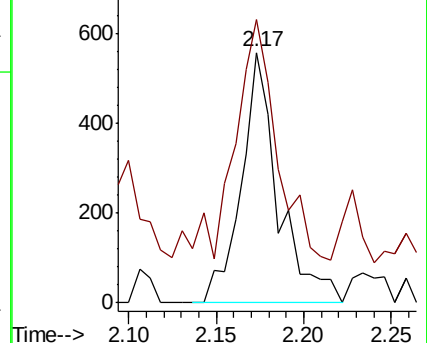
74 100

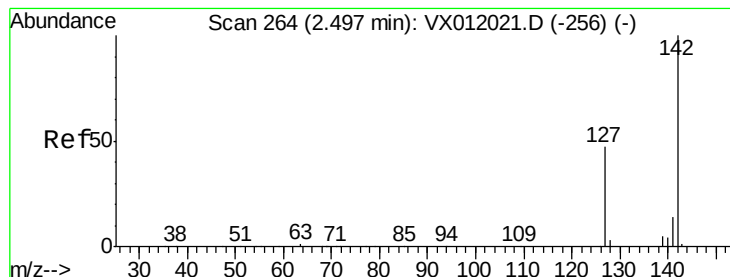
45 131.2 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 7.044 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

Instrument :

MSVOA_X

ClientSampleId :

T16-17-E2-(0)

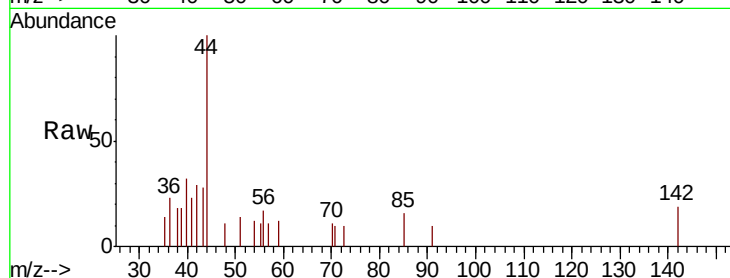
Tgt Ion:142 Resp: 92

Ion Ratio Lower Upper

142 100

127 0.0 35.4 53.2#

141 0.0 11.4 17.2#



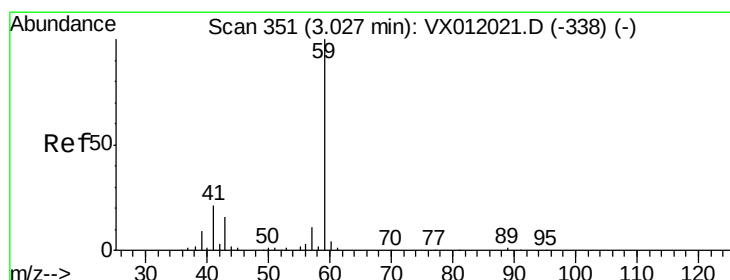
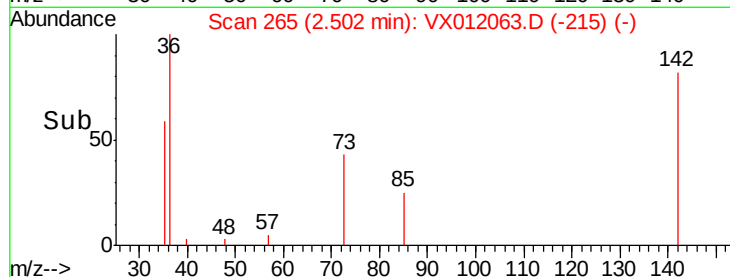
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.50

Time-->



#11

Tert butyl alcohol

Concen: 20.493 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX012063.D

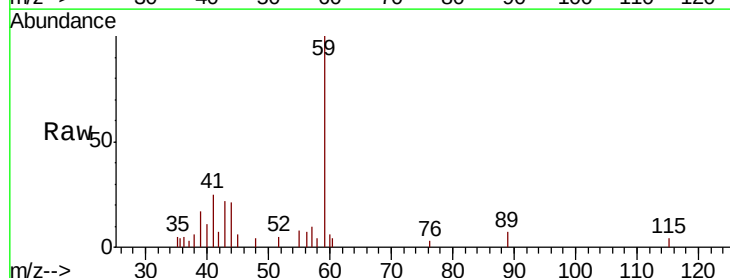
Acq: 04 Sep 2019 20:26

Tgt Ion: 59 Resp: 3731

Ion Ratio Lower Upper

59 100

57 18.3 7.9 11.9#

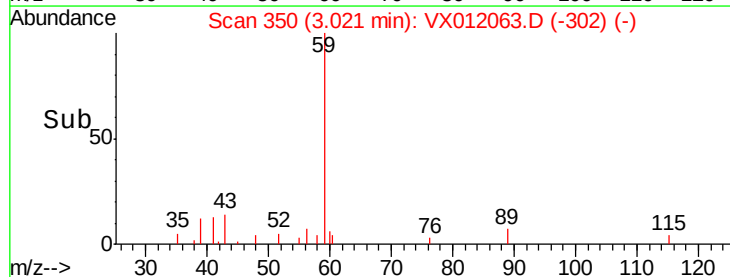


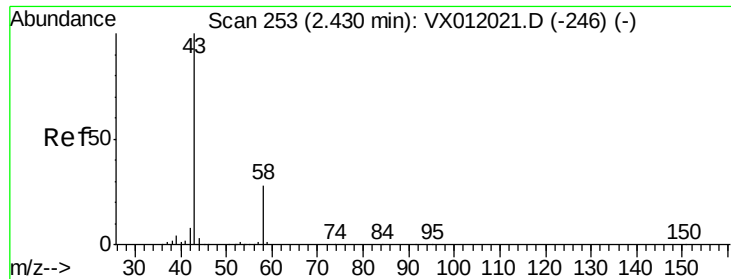
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

Time-->





#16

Acetone

Concen: 23.127 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

Instrument :

MSVOA_X

ClientSampleId :

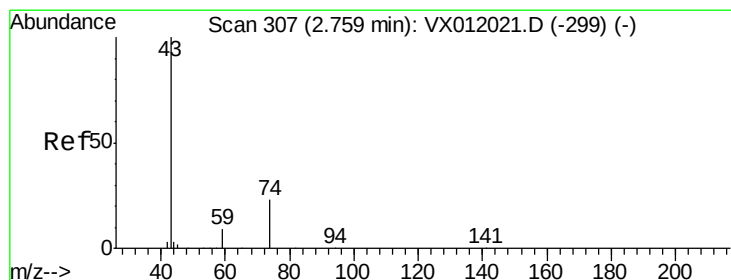
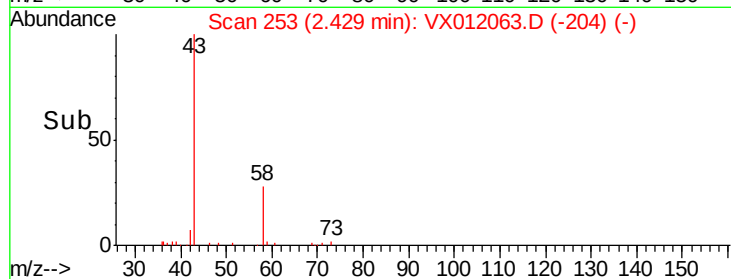
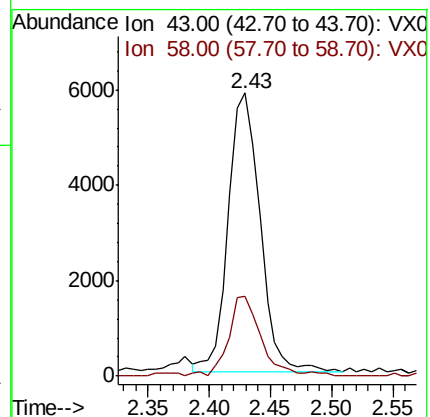
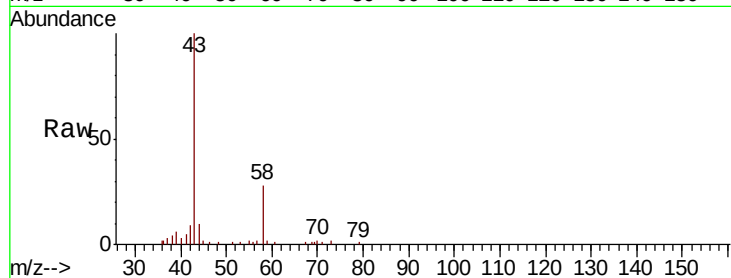
T16-17-E2-(0)

Tgt Ion: 43 Resp: 10478

Ion Ratio Lower Upper

43 100

58 28.7 22.8 34.2



#18

Methyl Acetate

Concen: 1.363 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.00 min

Lab File: VX012063.D

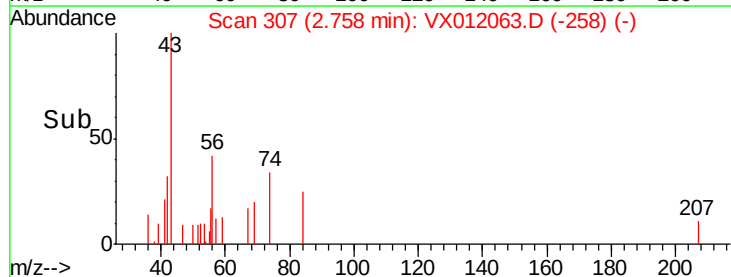
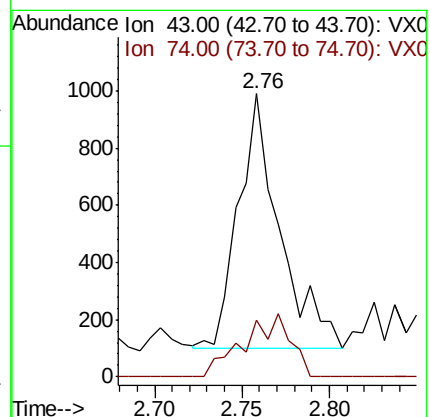
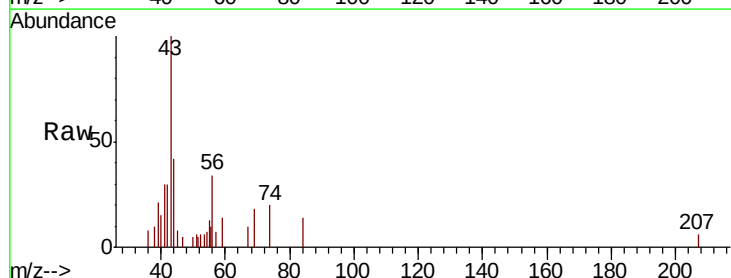
Acq: 04 Sep 2019 20:26

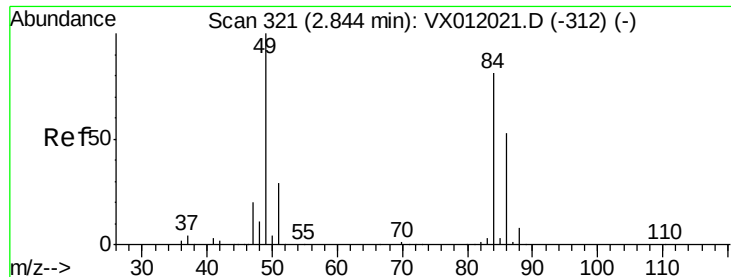
Tgt Ion: 43 Resp: 1455

Ion Ratio Lower Upper

43 100

74 27.9 19.5 29.3

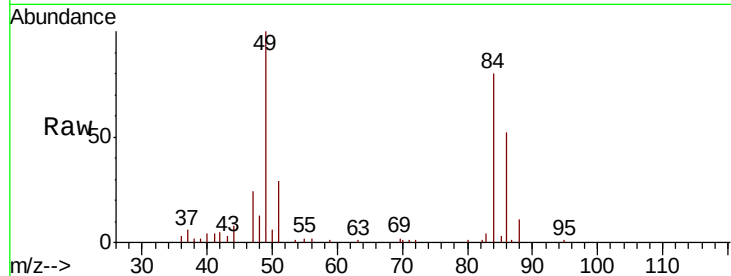




#20
Methylene Chloride
Concen: 4.769 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

Instrument :
MSVOA_X
ClientSampleId :
T16-17-E2-(0)

Tgt Ion:	84	Resp:	8677
Ion	Ratio	Lower	Upper
84	100		
49	123.3	95.8	143.8
51	34.8	28.6	43.0
86	64.6	50.9	76.3



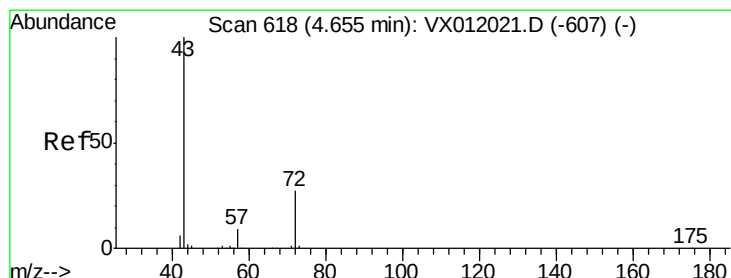
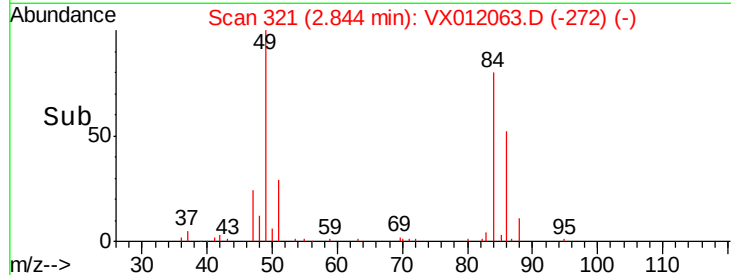
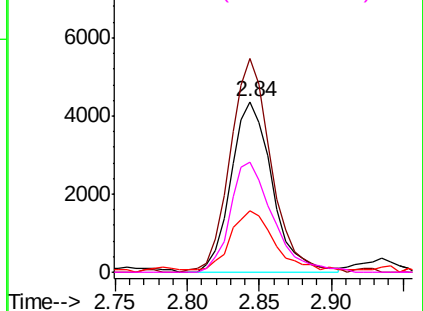
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

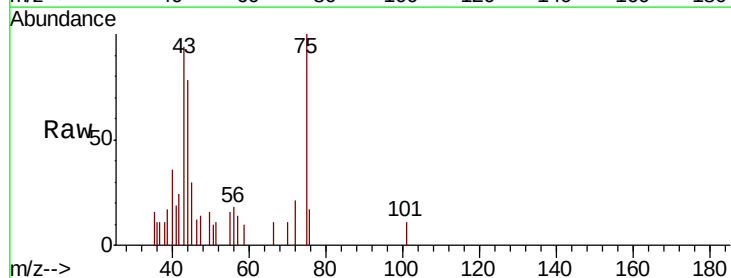
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 1.642 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

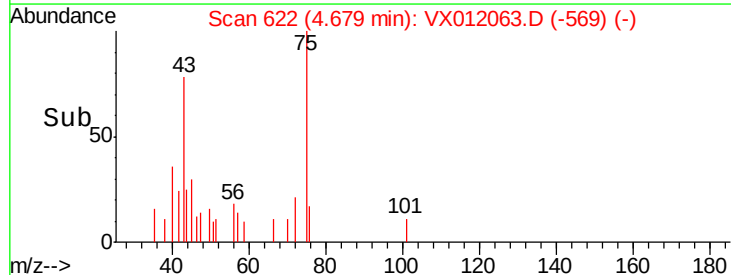
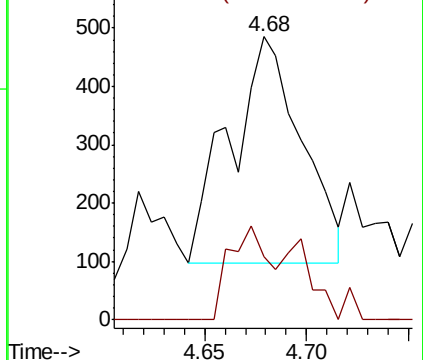
Tgt Ion:	43	Resp:	947
Ion	Ratio	Lower	Upper
43	100		
72	28.1	21.3	31.9

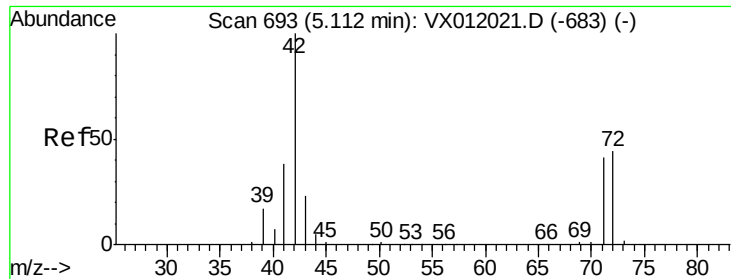


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

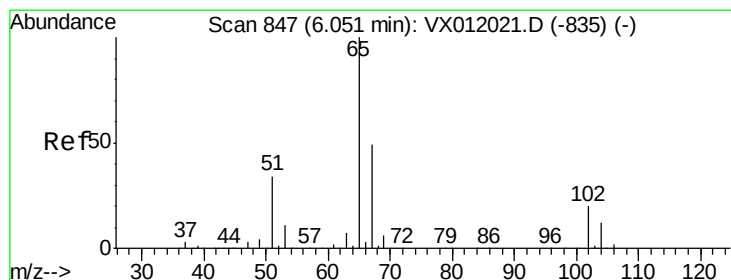
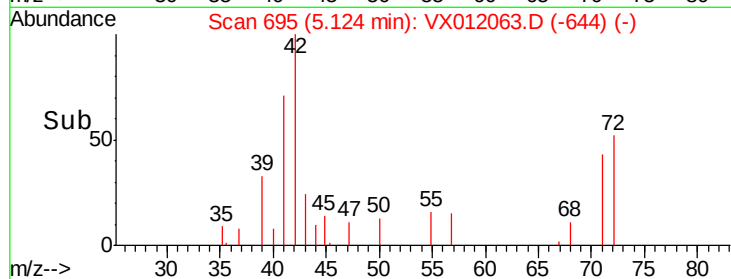
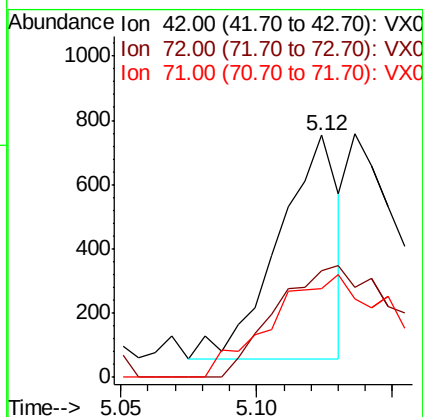
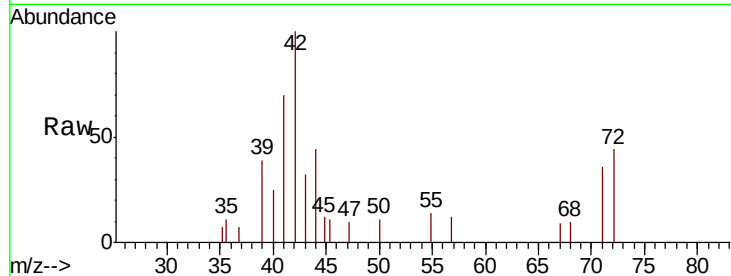




#29
Tetrahydrofuran
Concen: 3.079 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

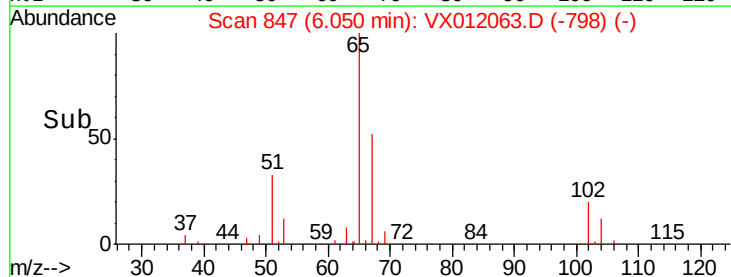
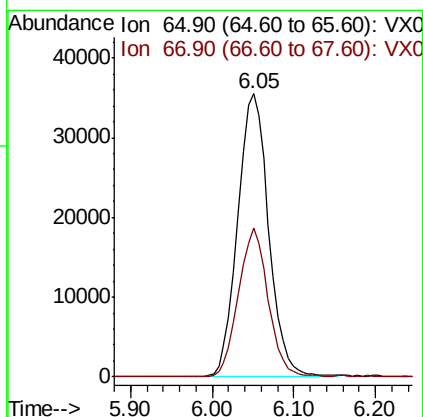
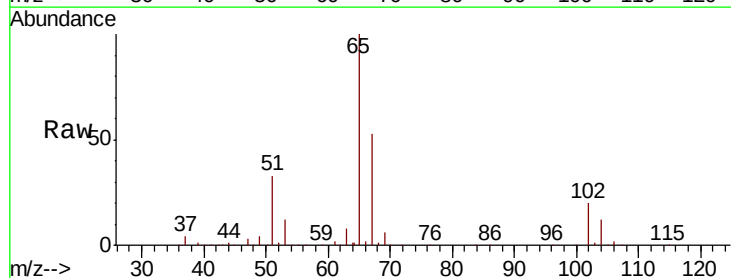
Instrument :
MSVOA_X
ClientSampleId :
T16-17-E2-(0)

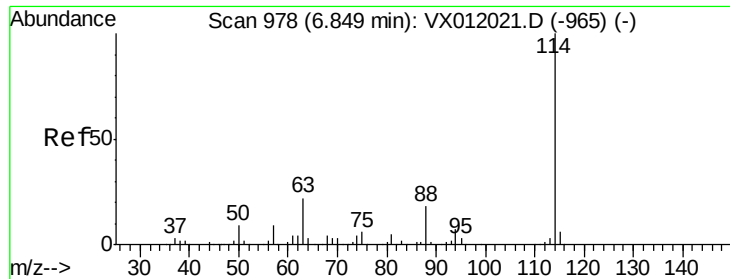
Tgt Ion: 42 Resp: 1070
Ion Ratio Lower Upper
42 100
72 112.3 37.0 55.4#
71 103.2 33.8 50.8#



#33
1,2-Dichloroethane-d4
Concen: 49.306 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

Tgt Ion: 65 Resp: 93459
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

Instrument :

MSVOA_X

ClientSampleId :

T16-17-E2-(0)

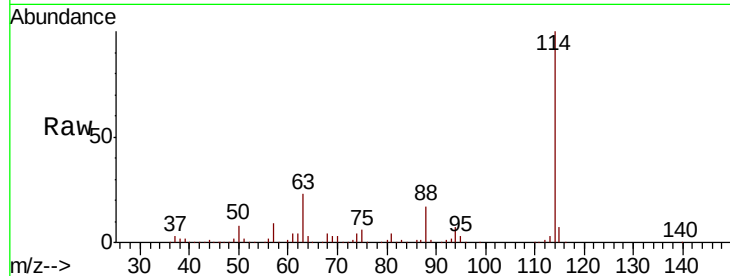
Tgt Ion:114 Resp: 238468

Ion Ratio Lower Upper

114 100

63 22.8 0.0 37.4

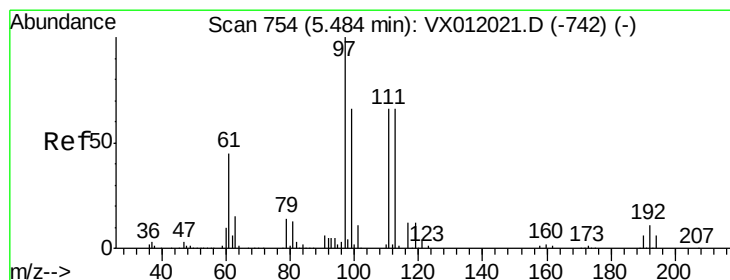
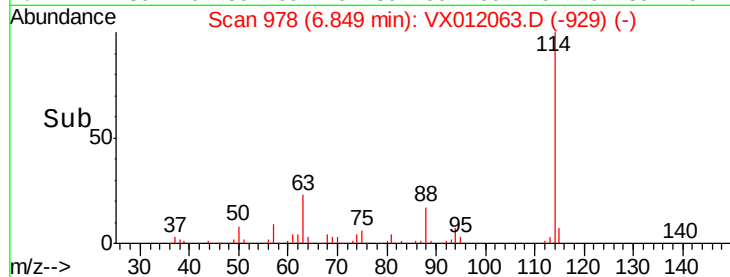
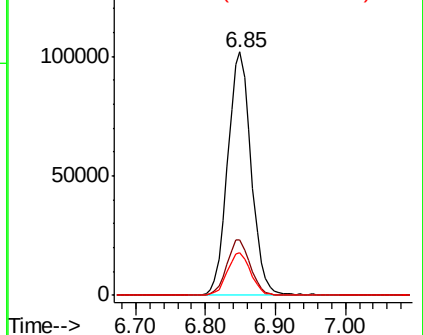
88 17.3 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.978 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

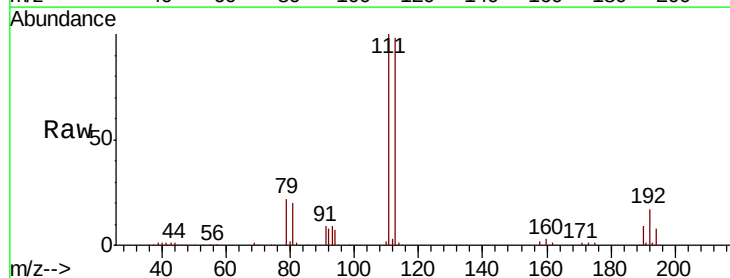
Tgt Ion:113 Resp: 71826

Ion Ratio Lower Upper

113 100

111 103.0 81.7 122.5

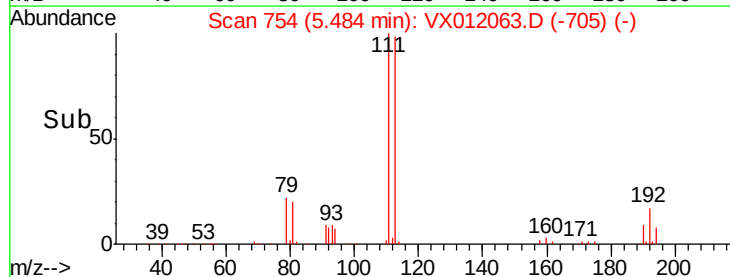
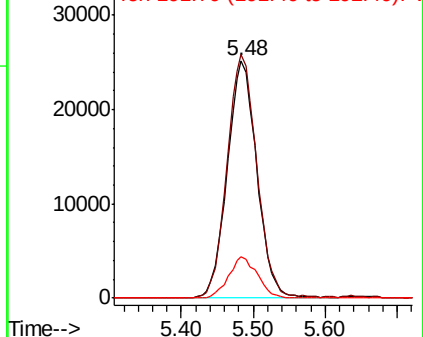
192 16.9 22.5 33.7#

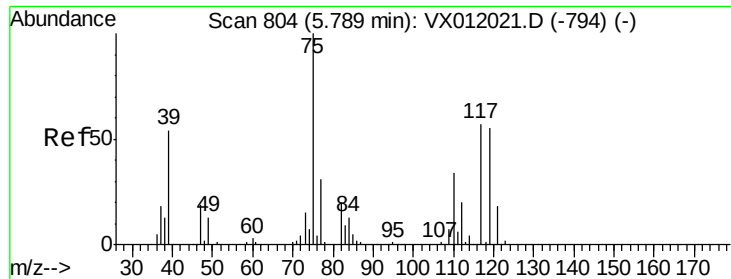


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

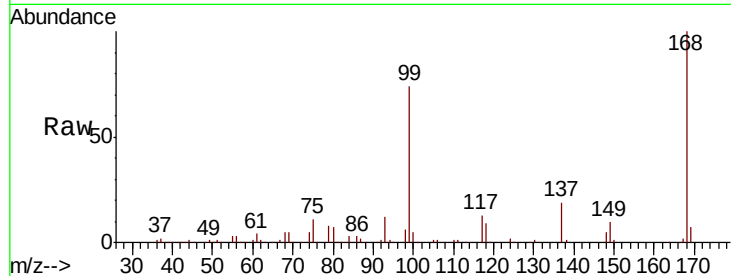




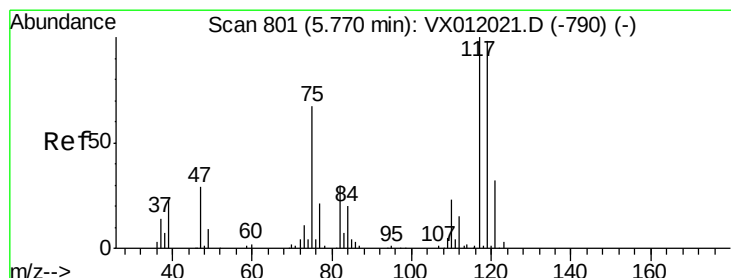
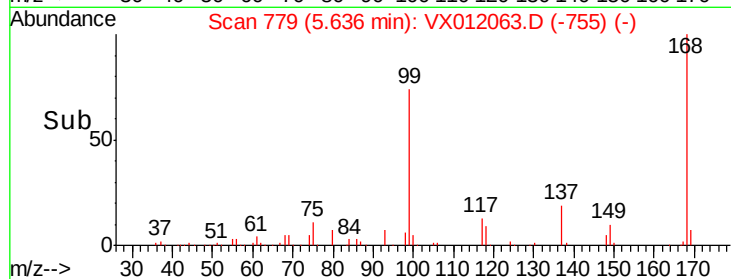
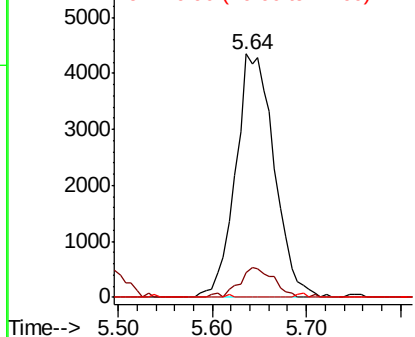
#36
 1,1-Dichloropropene
 Concen: 5.932 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.15 min
 Lab File: VX012063.D
 Acq: 04 Sep 2019 20:26

Instrument :
 MSVOA_X
 ClientSampleId :
 T16-17-E2-(0)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.9	19.5	58.5#
77	0.0	24.6	37.0#

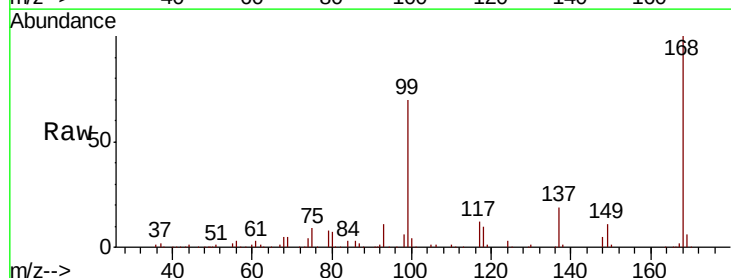


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

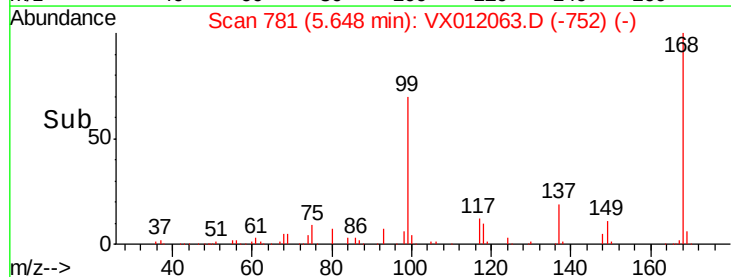
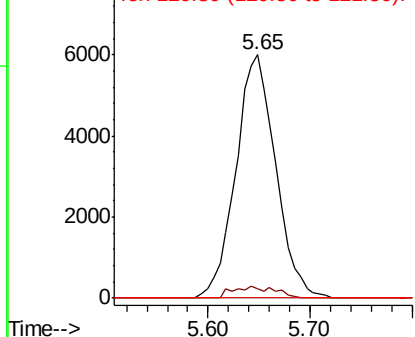


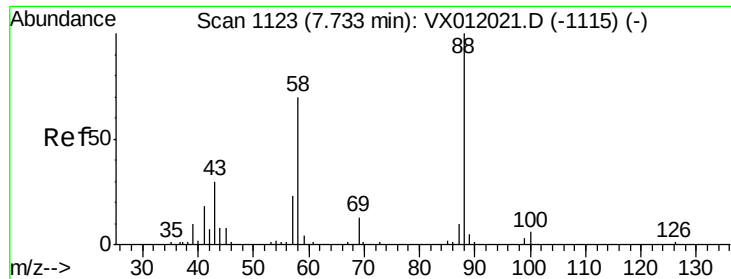
#38
 Carbon Tetrachloride
 Concen: 7.320 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.12 min
 Lab File: VX012063.D
 Acq: 04 Sep 2019 20:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	78.3	117.5#
121	0.0	24.2	36.2#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

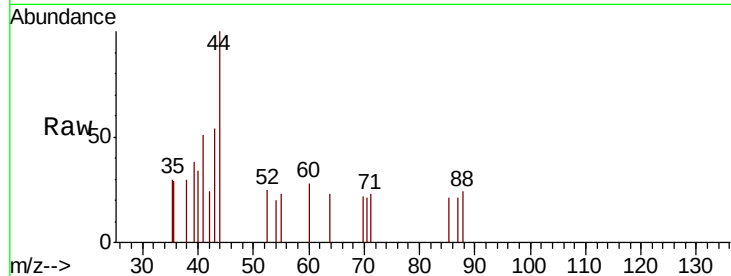




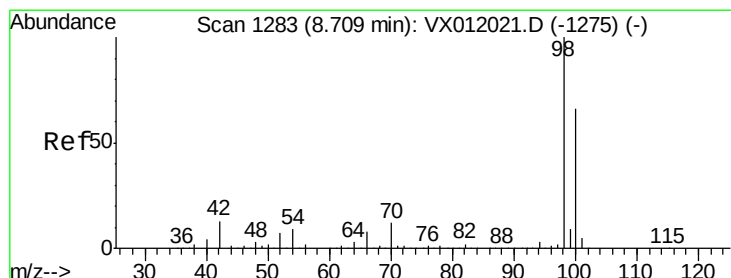
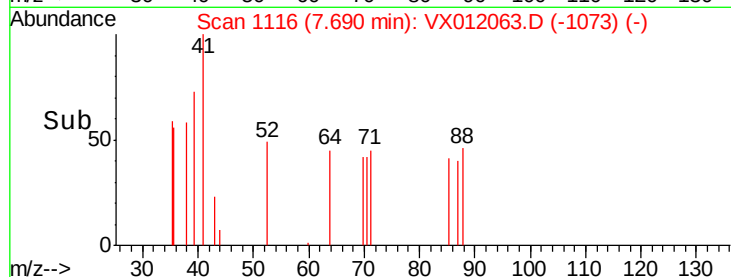
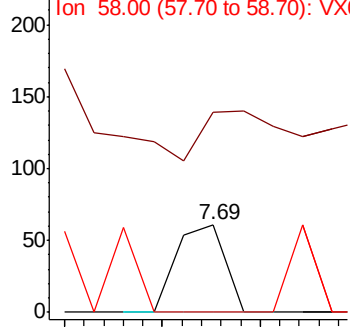
#49
1,4-Dioxane
Concen: 2.639 ug/l
RT: 7.69 min Scan# 1116
Delta R.T. -0.04 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

Instrument :
MSVOA_X
ClientSampleId :
T16-17-E2-(0)

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 95.2 29.8 44.6#
58 52.4 55.4 83.2#

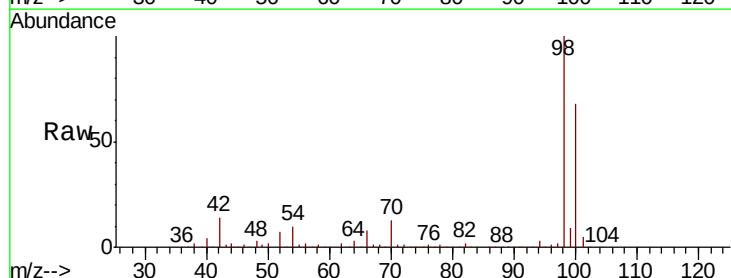


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

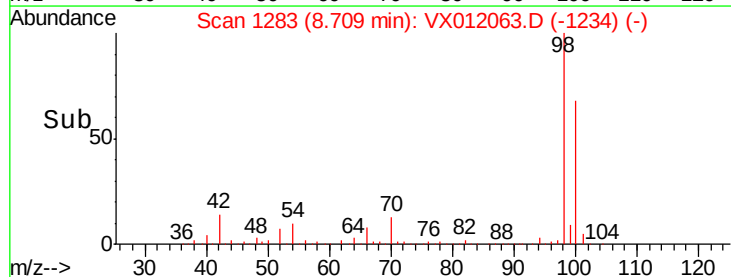
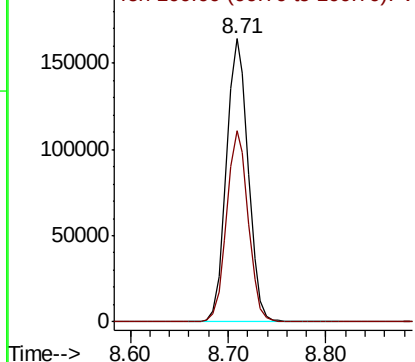


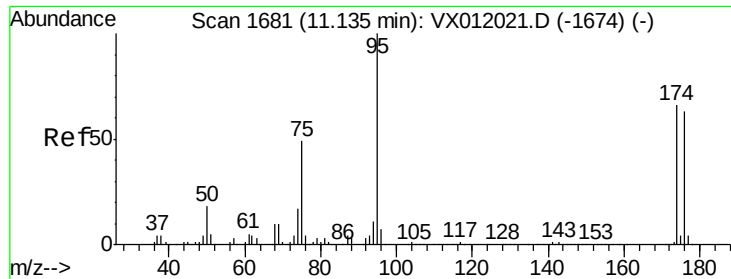
#50
Toluene-d8
Concen: 47.163 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

Tgt Ion: 98 Resp: 253802
Ion Ratio Lower Upper
98 100
100 67.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

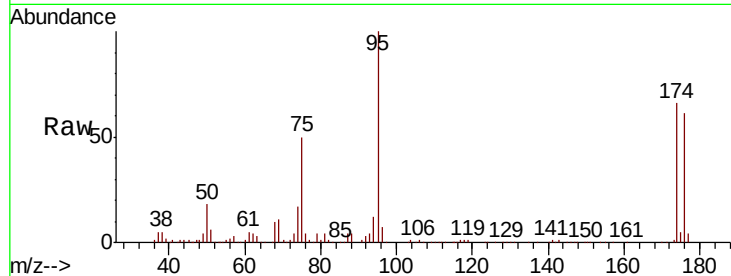




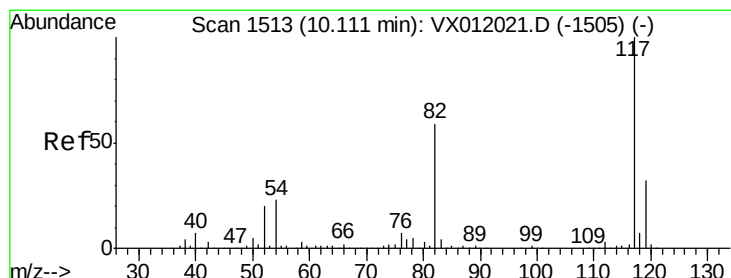
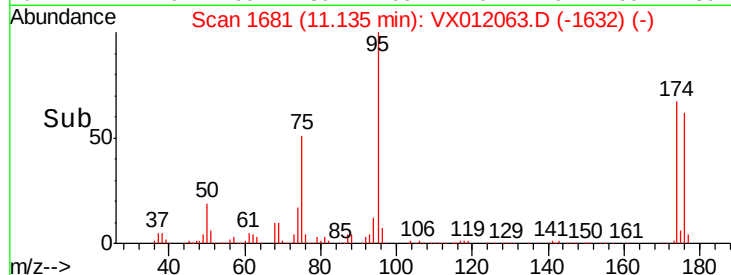
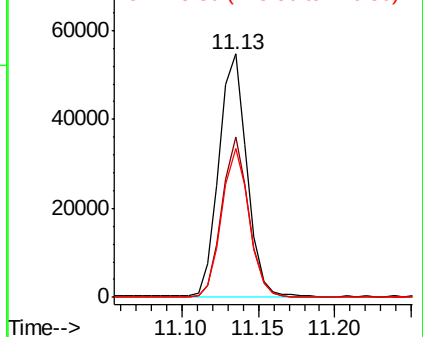
#62
4-Bromofluorobenzene
Concen: 27.630 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

Instrument :
MSVOA_X
ClientSampleId :
T16-17-E2-(0)

Tgt Ion: 95 Resp: 69148
Ion Ratio Lower Upper
95 100
174 63.1 0.0 205.4
176 60.4 0.0 201.8

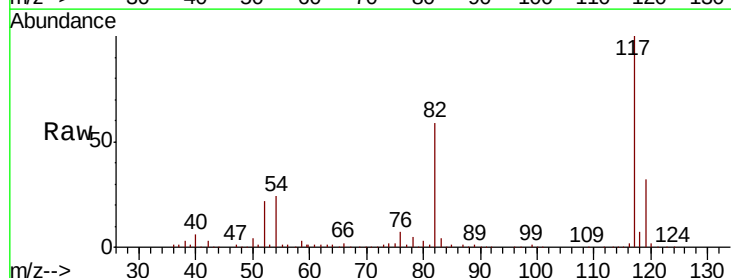


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

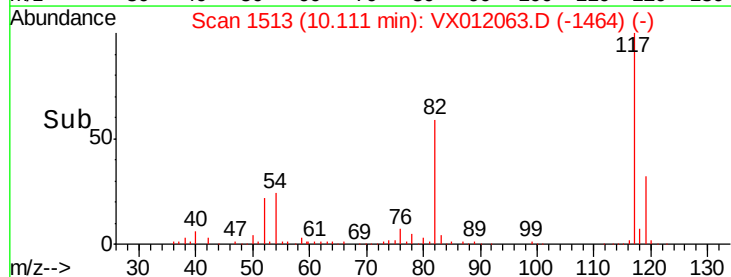
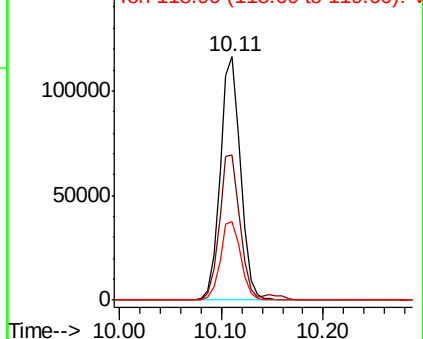


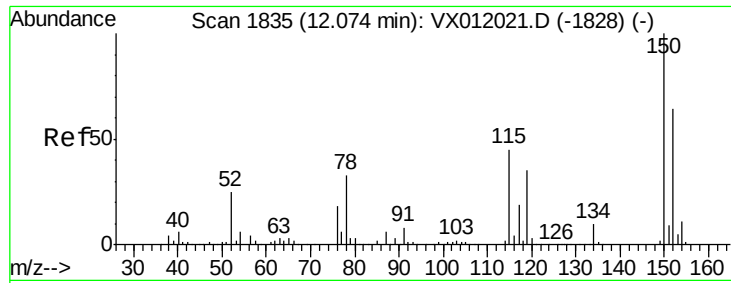
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012063.D
Acq: 04 Sep 2019 20:26

Tgt Ion: 117 Resp: 161720
Ion Ratio Lower Upper
117 100
82 59.3 39.4 59.0#
119 32.5 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

Instrument :

MSVOA_X

ClientSampleId :

T16-17-E2-(0)

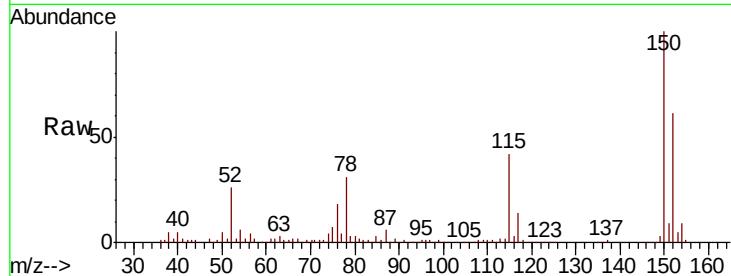
Tgt Ion:152 Resp: 33554

Ion Ratio Lower Upper

152 100

115 69.3 36.4 109.3

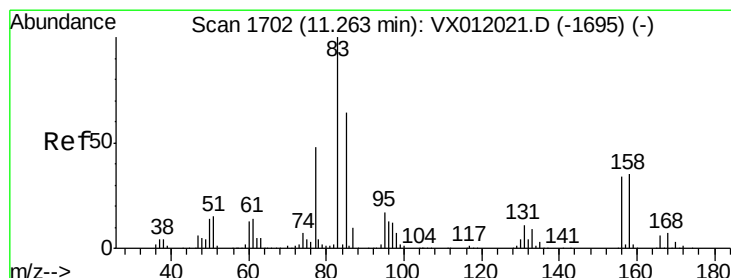
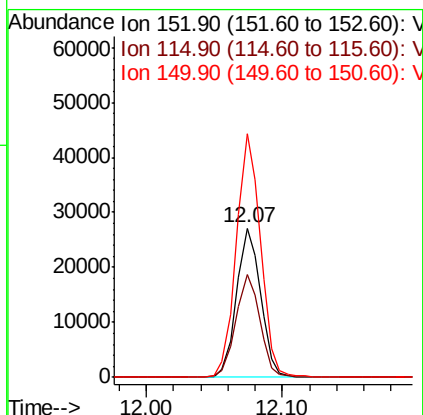
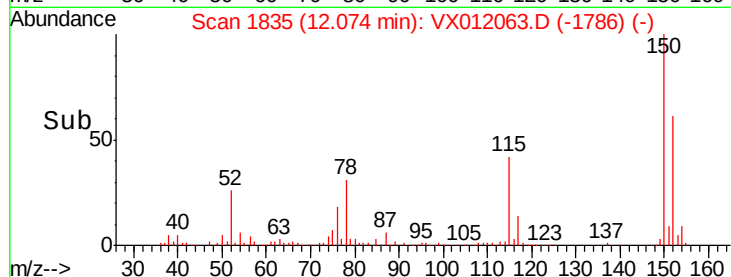
150 164.5 0.0 341.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: 1.383 ug/l

RT: 11.28 min Scan# 1704

Delta R.T. 0.01 min

Lab File: VX012063.D

Acq: 04 Sep 2019 20:26

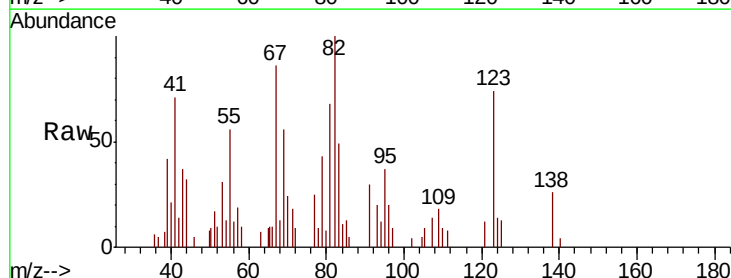
Tgt Ion: 83 Resp: 710

Ion Ratio Lower Upper

83 100

131 0.0 6.3 19.1#

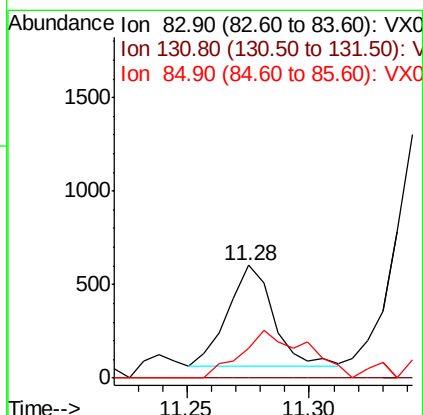
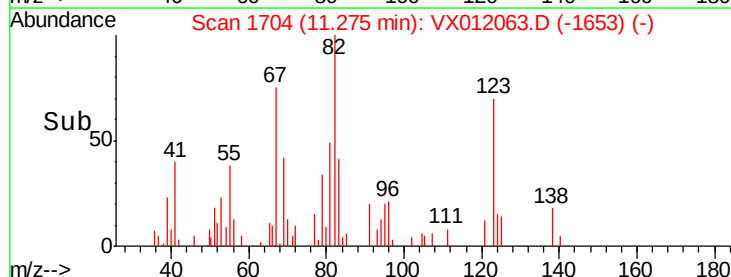
85 67.5 32.5 97.4

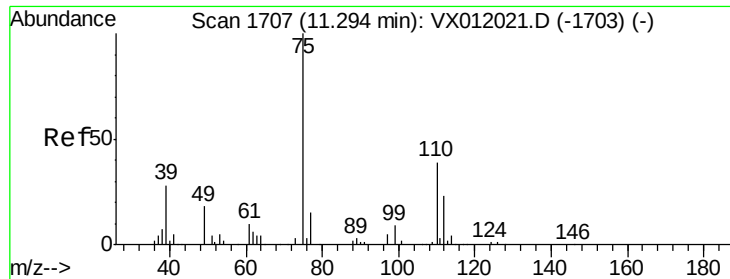


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

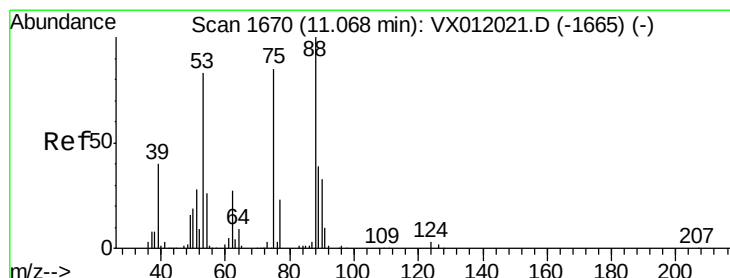
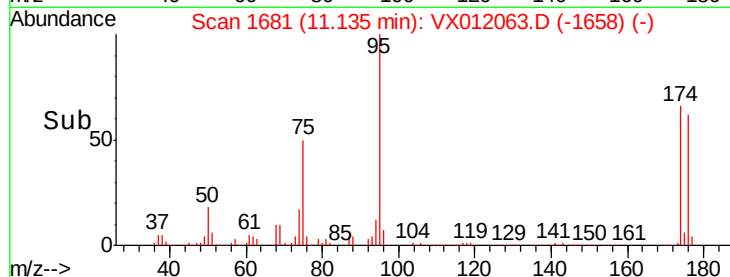
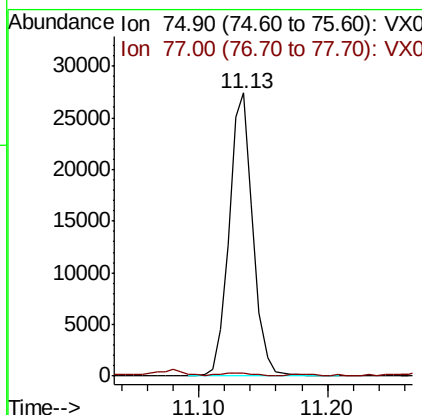
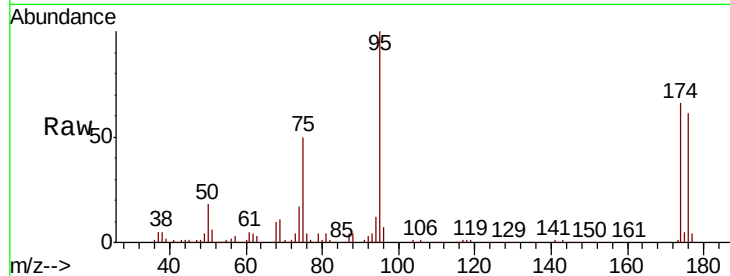




#76
 1,2,3-Trichloropropane
 Concen: 86.097 ug/l
 RT: 11.13 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX012063.D
 Acq: 04 Sep 2019 20:26

Instrument :
 MSVOA_X
 ClientSampleId :
 T16-17-E2-(0)

Tgt Ion: 75 Resp: 35298
 Ion Ratio Lower Upper
 75 100
 77 1.1 23.5 70.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 203.547 ug/l
 RT: 11.13 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX012063.D
 Acq: 04 Sep 2019 20:26

Tgt Ion: 75 Resp: 35298
 Ion Ratio Lower Upper
 75 100
 53 0.4 78.6 117.8#
 89 0.0 38.8 58.2#

