

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100419\
 Data File : VX012815.D
 Acq On : 04 Oct 2019 16:35
 Operator : JC/SP
 Sample : K5189-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ139I-20191001

Quant Time: Oct 05 04:23:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	177610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	300387	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	257654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100316	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	117553	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	
35) Dibromofluoromethane	5.49	113	91602	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
50) Toluene-d8	8.71	98	357355	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	11.14	95	125864	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	

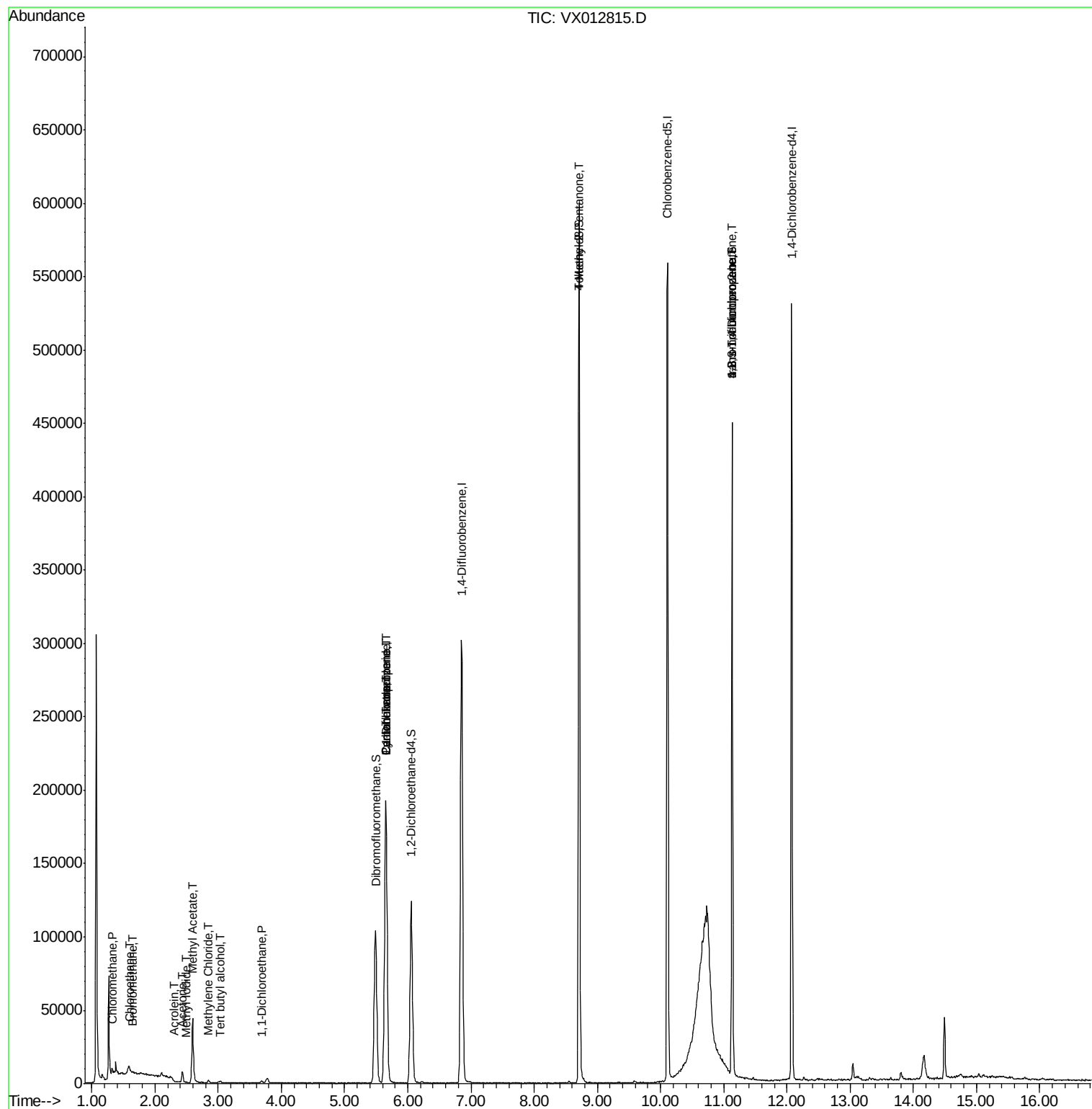
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1966	0.857	ug/l	93
5) Bromomethane	1.65	94	400	0.446	ug/l	87
6) Chloroethane	1.60	64	323	0.210	ug/l #	45
10) Methyl Iodide	2.50	142	28	4.965	ug/l #	35
11) Tert butyl alcohol	3.03	59	836	1.294	ug/l	96
13) Acrolein	2.30	56	267	10.944	ug/l #	15
16) Acetone	2.44	43	8051	5.877	ug/l	99
18) Methyl Acetate	2.59	43	10293	3.191	ug/l #	54
20) Methylene Chloride	2.84	84	596	0.257	ug/l	94
24) 1,1-Dichloroethane	3.69	63	1626	0.409	ug/l #	81
31) Cyclohexane	5.65	56	4069	1.130	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14714	5.082	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18544	6.305	ug/l #	16
51) 4-Methyl-2-Pentanone	8.72	43	1602	0.458	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	62157	23.424	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	62157	67.127	ug/l #	8

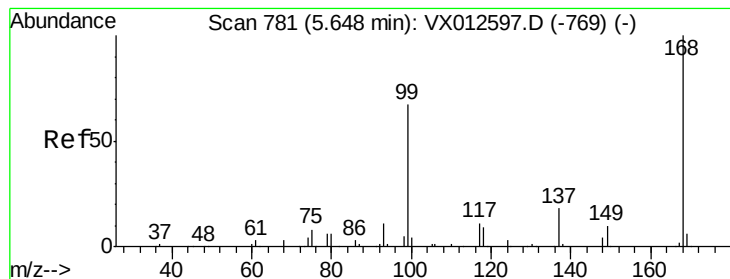
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012815.D

Acq: 04 Oct 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

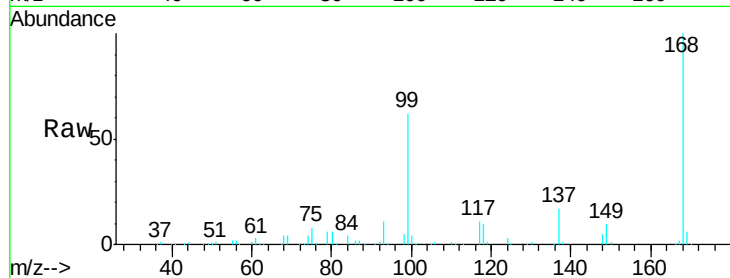
SA-PZ139I-20191001

Tgt Ion:168 Resp: 177610

Ion Ratio Lower Upper

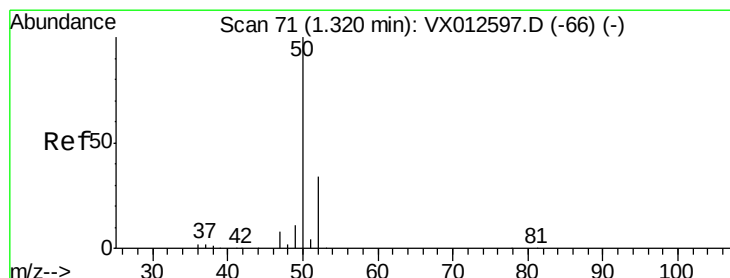
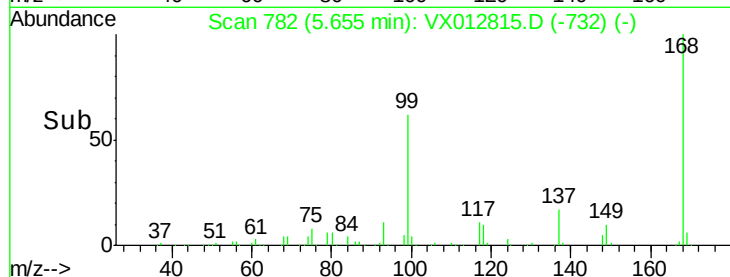
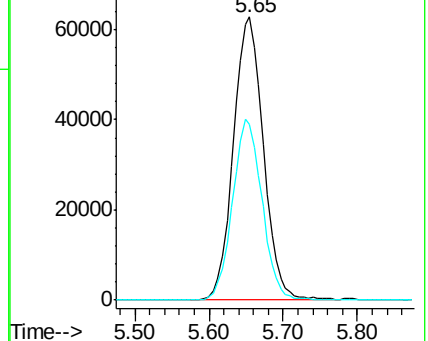
168 100

99 62.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.857 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012815.D

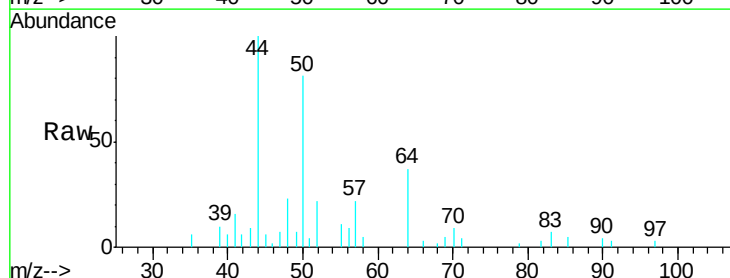
Acq: 04 Oct 2019 16:35

Tgt Ion: 50 Resp: 1966

Ion Ratio Lower Upper

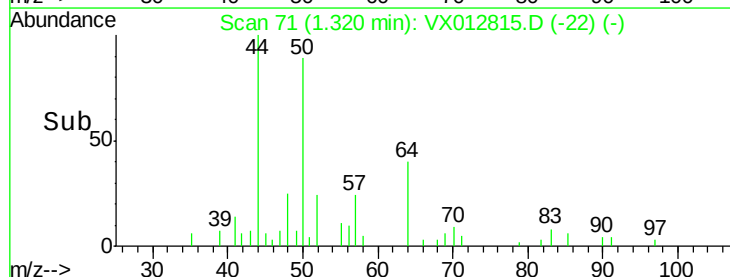
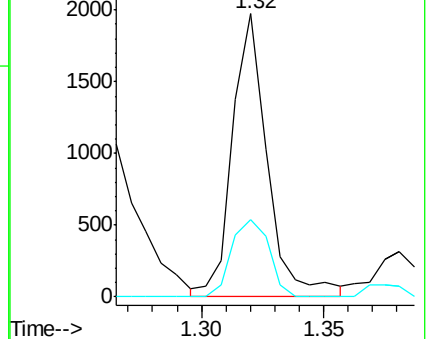
50 100

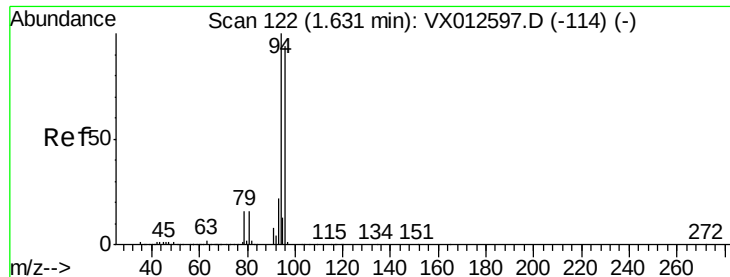
52 28.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.446 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012815.D

Acq: 04 Oct 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

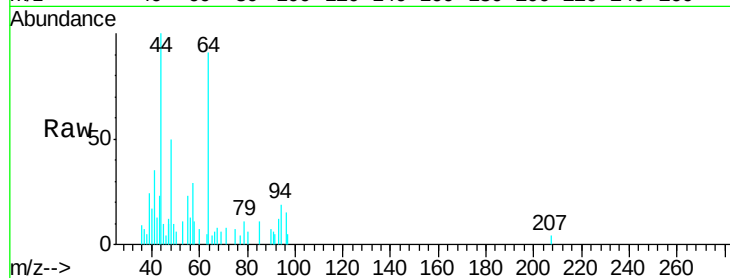
SA-PZ139I-20191001

Tgt Ion: 94 Resp: 400

Ion Ratio Lower Upper

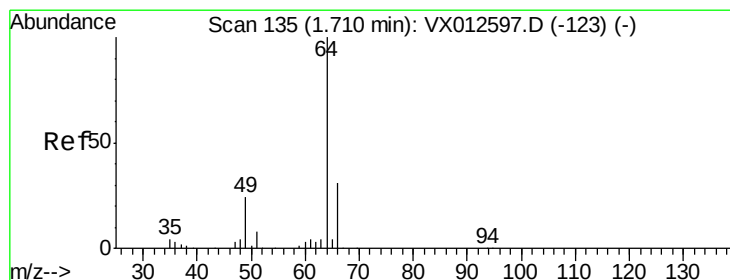
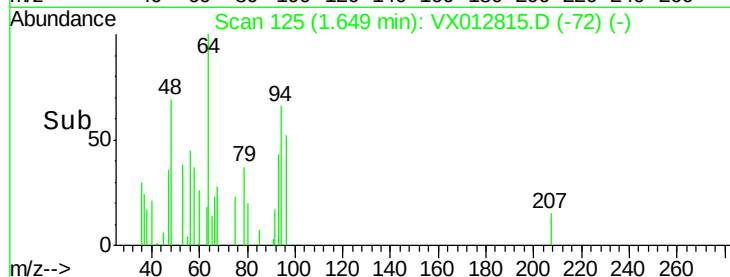
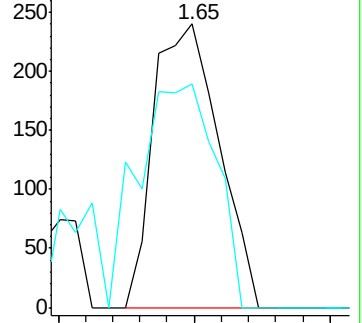
94 100

96 78.8 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.210 ug/l

RT: 1.60 min Scan# 117

Delta R.T. -0.11 min

Lab File: VX012815.D

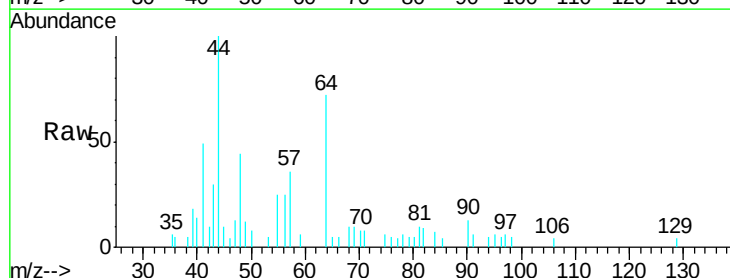
Acq: 04 Oct 2019 16:35

Tgt Ion: 64 Resp: 323

Ion Ratio Lower Upper

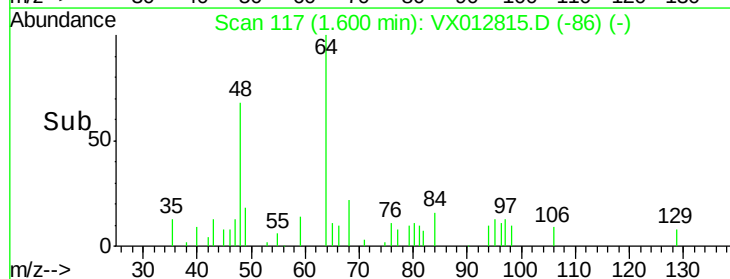
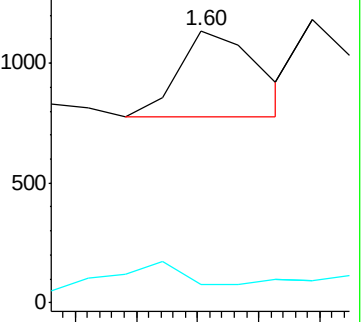
64 100

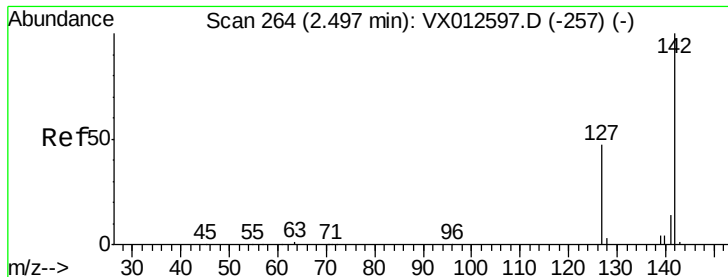
66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

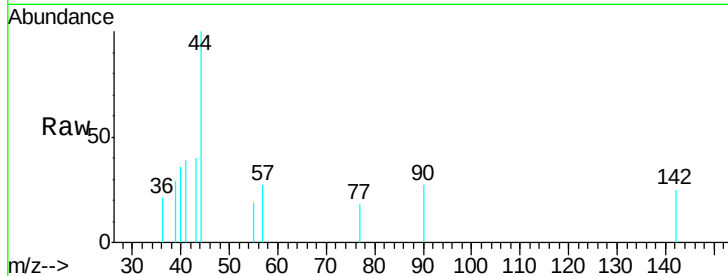




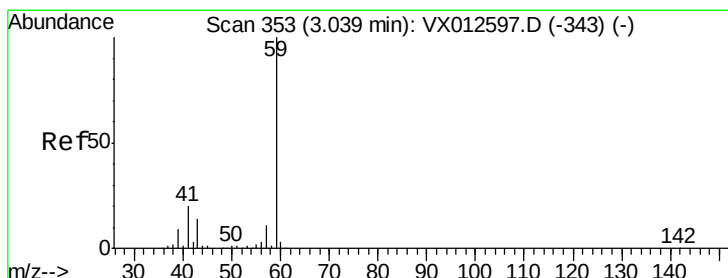
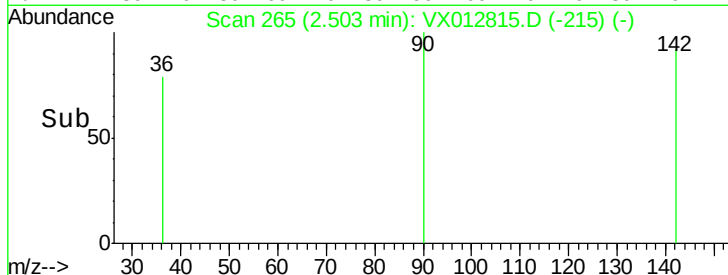
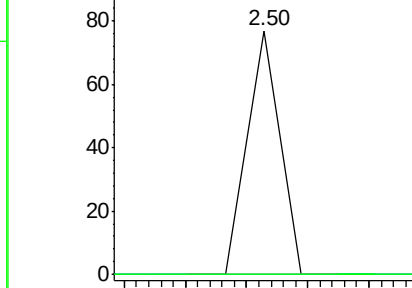
#10
Methyl Iodide
Concen: 4.965 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ139I-20191001

Tgt Ion: 142 Resp: 28
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#

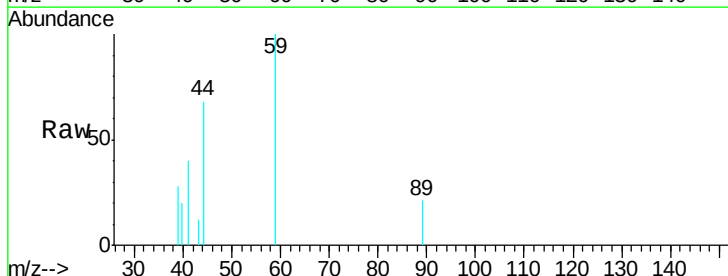


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

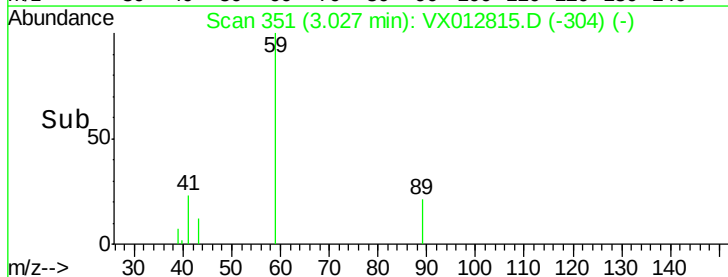
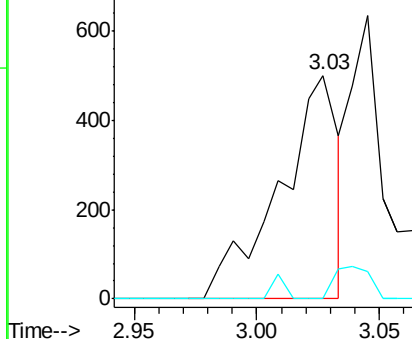


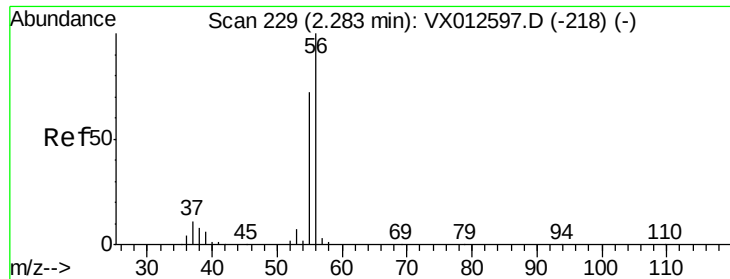
#11
Tert butyl alcohol
Concen: 1.294 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Tgt Ion: 59 Resp: 836
Ion Ratio Lower Upper
59 100
57 8.7 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.944 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX012815.D

Acq: 04 Oct 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

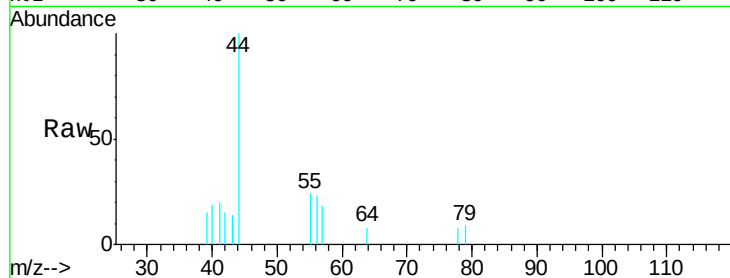
SA-PZ139I-20191001

Tgt Ion: 56 Resp: 267

Ion Ratio Lower Upper

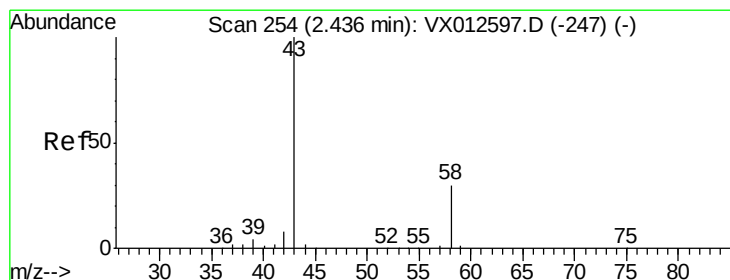
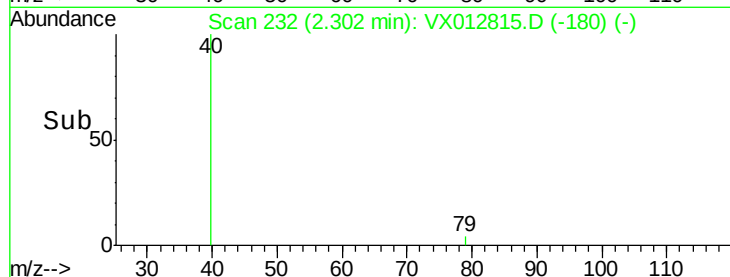
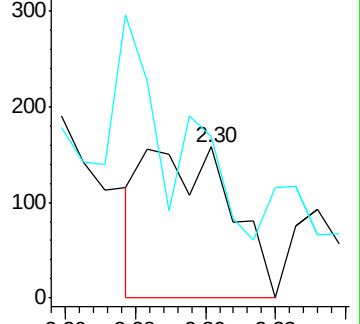
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.877 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012815.D

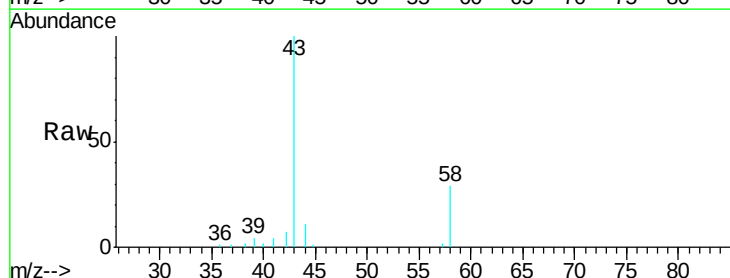
Acq: 04 Oct 2019 16:35

Tgt Ion: 43 Resp: 8051

Ion Ratio Lower Upper

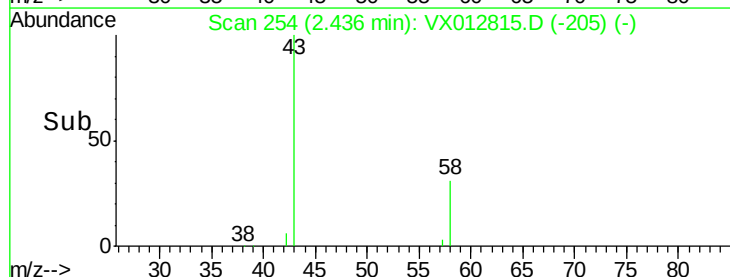
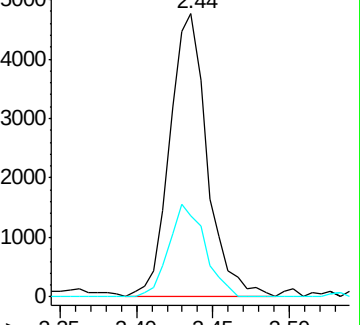
43 100

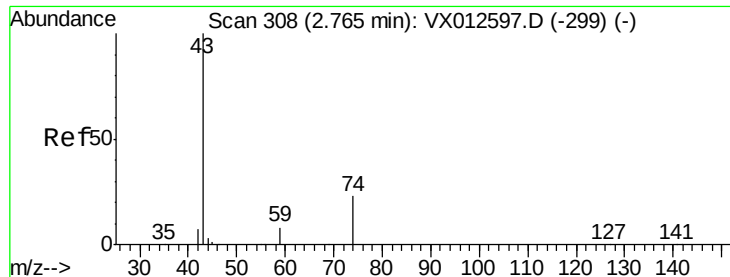
58 28.8 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

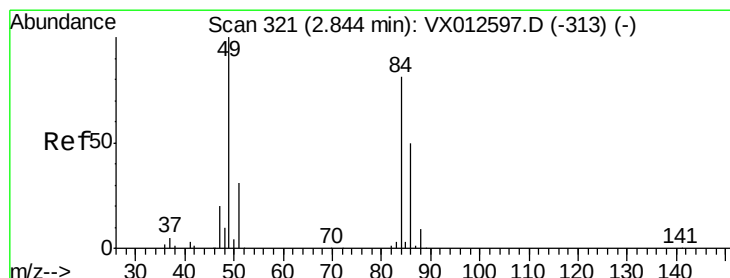
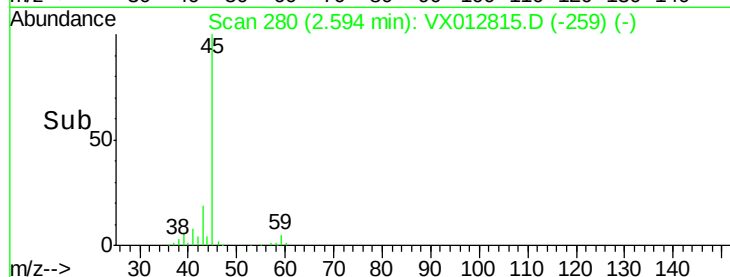
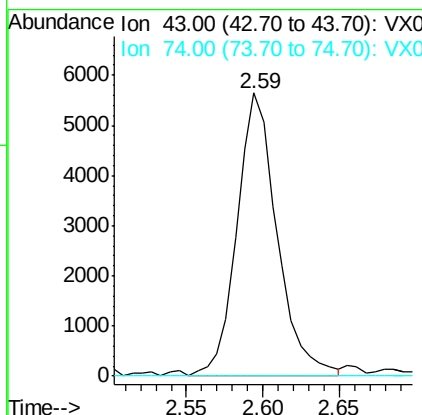
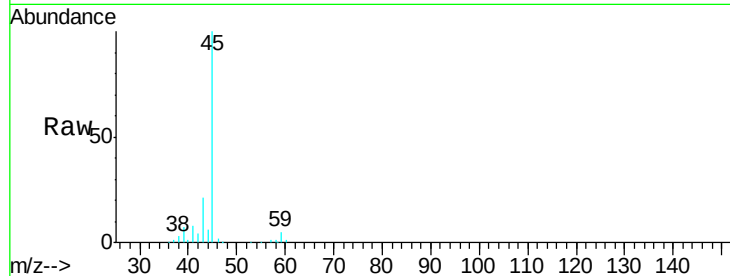




#18
Methyl Acetate
Concen: 3.191 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

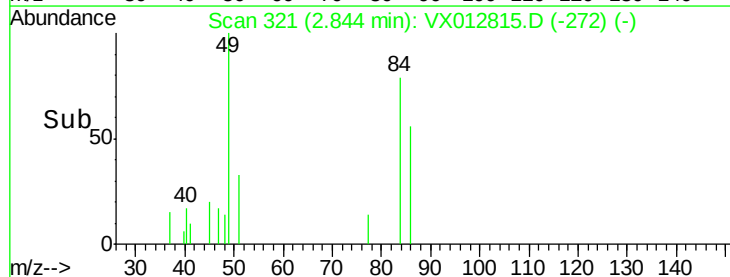
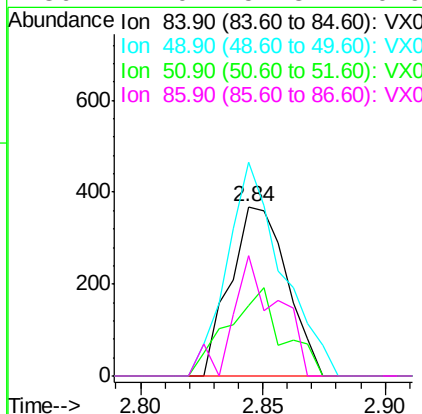
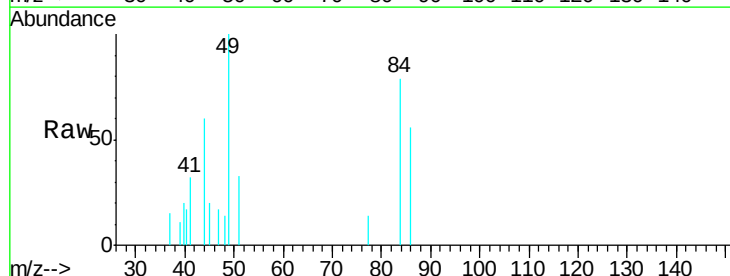
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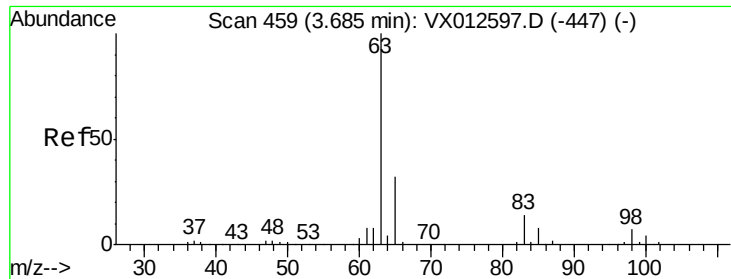
Tgt Ion: 43 Resp: 10293
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 0.257 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Tgt Ion: 84 Resp: 596
Ion Ratio Lower Upper
84 100
49 126.0 106.8 160.2
51 41.2 32.3 48.5
86 71.0 51.3 76.9

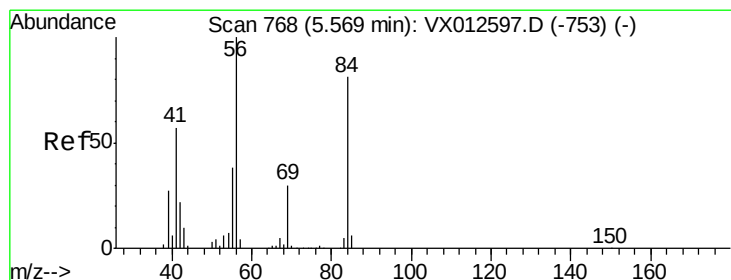
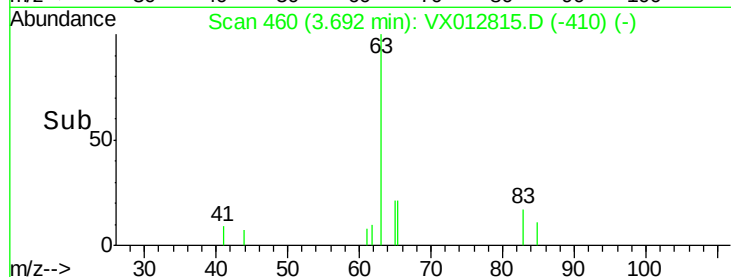
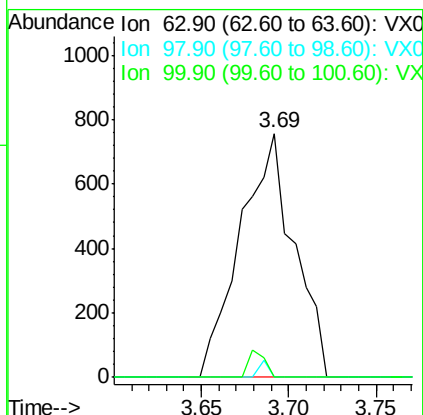
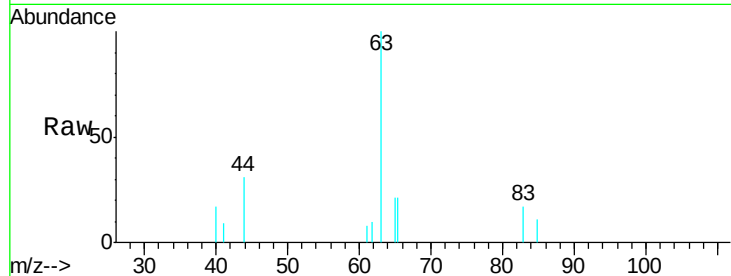




#24
 1,1-Dichloroethane
 Concen: 0.409 ug/l
 RT: 3.69 min Scan# 460
 Delta R.T. 0.01 min
 Lab File: VX012815.D
 Acq: 04 Oct 2019 16:35

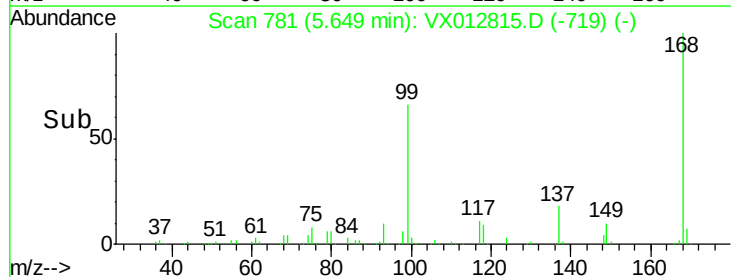
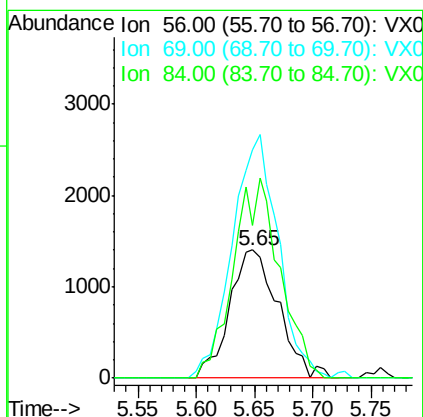
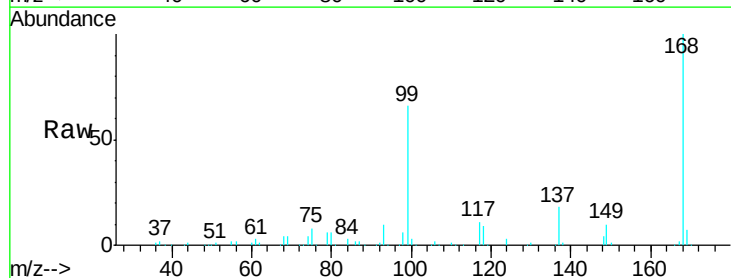
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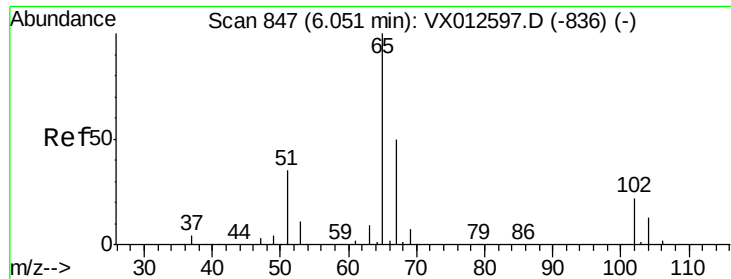
Tgt Ion: 63 Resp: 1626
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.9 11.7#
 100 0.0 2.3 6.9#



#31
 Cyclohexane
 Concen: 1.130 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.08 min
 Lab File: VX012815.D
 Acq: 04 Oct 2019 16:35

Tgt Ion: 56 Resp: 4069
 Ion Ratio Lower Upper
 56 100
 69 178.1 25.0 37.6#
 84 118.8 66.4 99.6#

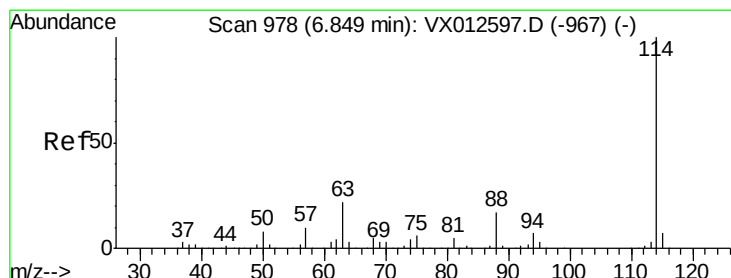
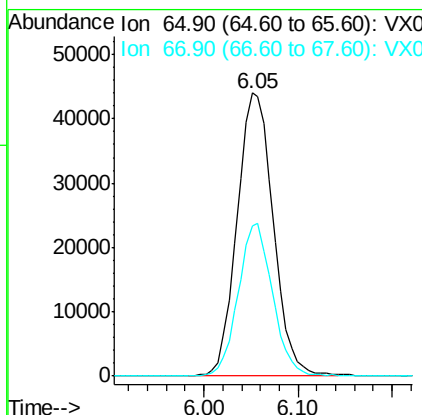
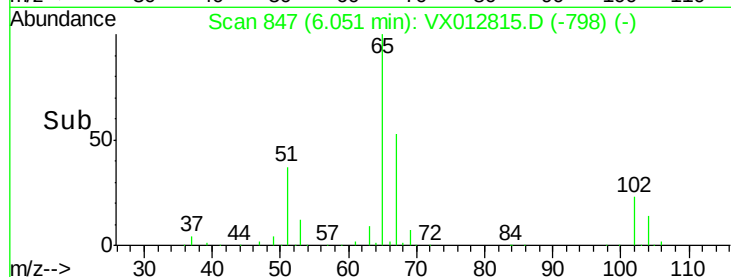
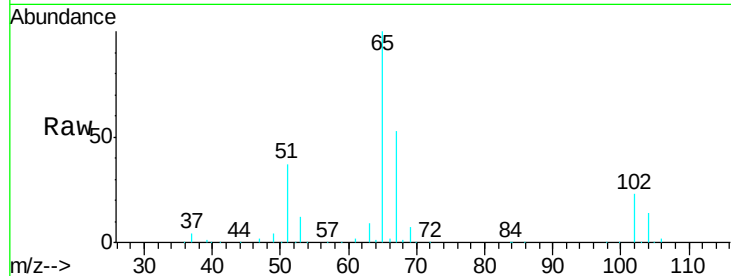




#33
 1,2-Dichloroethane-d4
 Concen: 45.451 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012815.D
 Acq: 04 Oct 2019 16:35

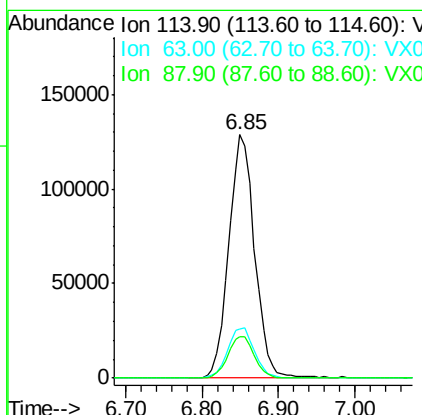
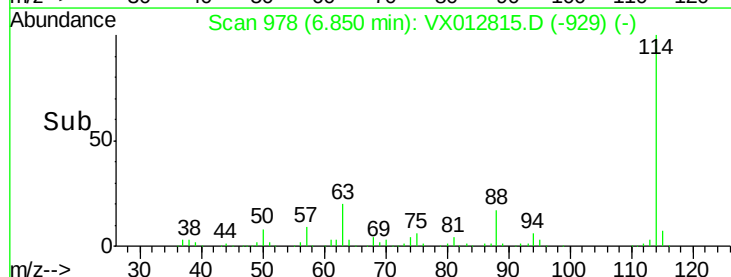
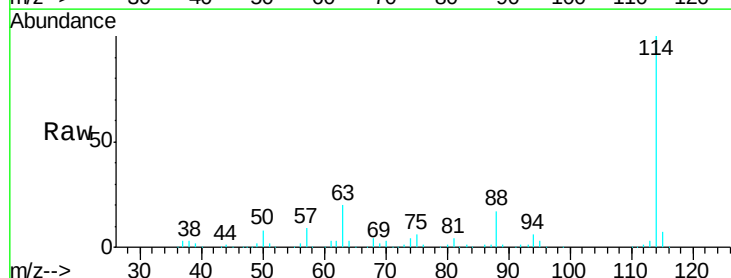
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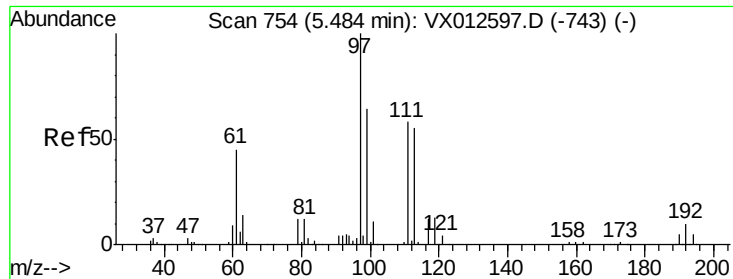
Tgt Ion: 65 Resp: 117553
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012815.D
 Acq: 04 Oct 2019 16:35

Tgt Ion: 114 Resp: 300387
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 43.2
 88 16.9 0.0 33.2

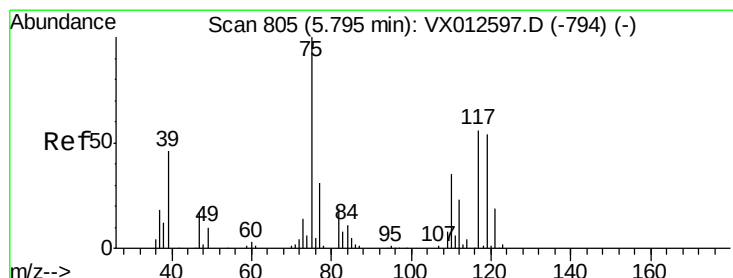
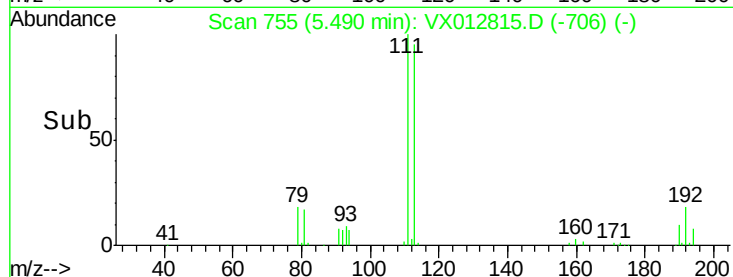
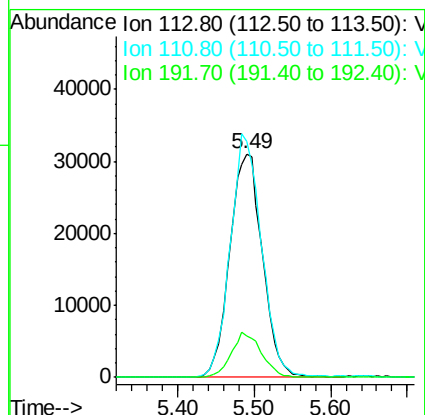
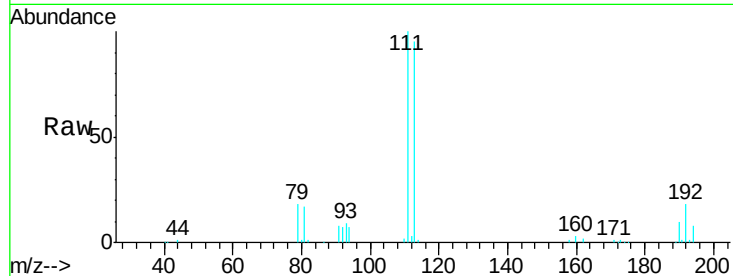




#35
Dibromofluoromethane
Concen: 51.205 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

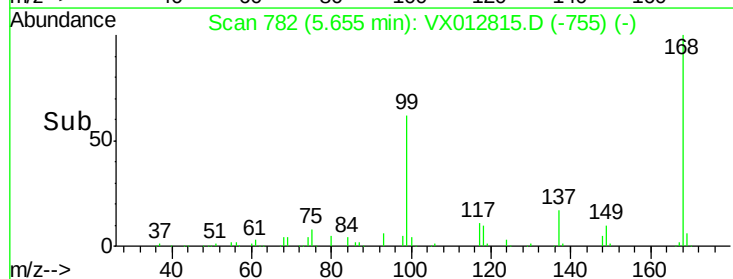
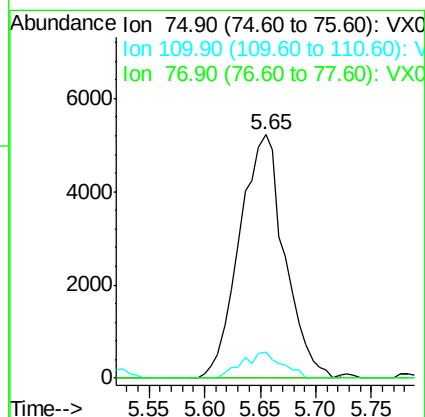
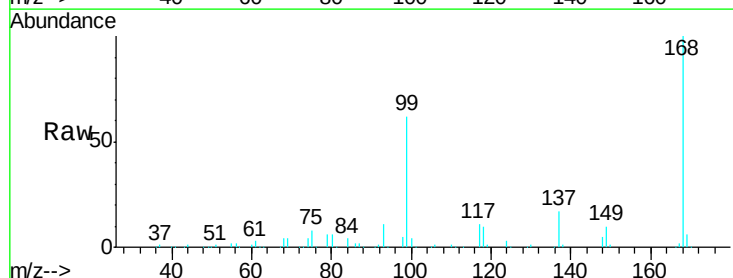
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ139I-20191001

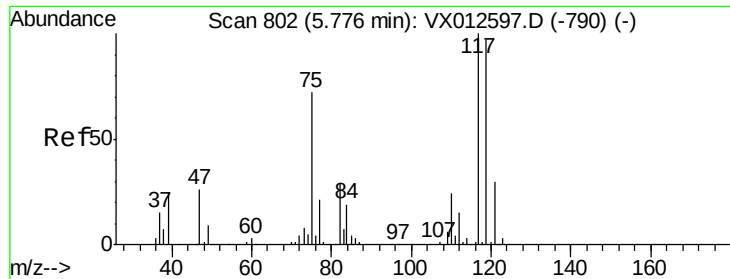
Tgt Ion:113 Resp: 91602
Ion Ratio Lower Upper
113 100
111 104.1 83.4 125.2
192 18.6 14.4 21.6



#36
1,1-Dichloropropene
Concen: 5.082 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Tgt Ion: 75 Resp: 14714
Ion Ratio Lower Upper
75 100
110 9.3 16.7 50.0#
77 0.0 24.2 36.2#

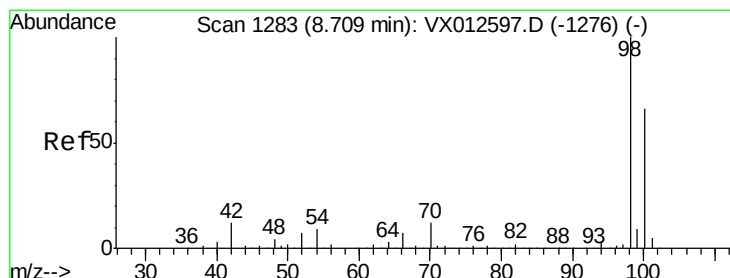
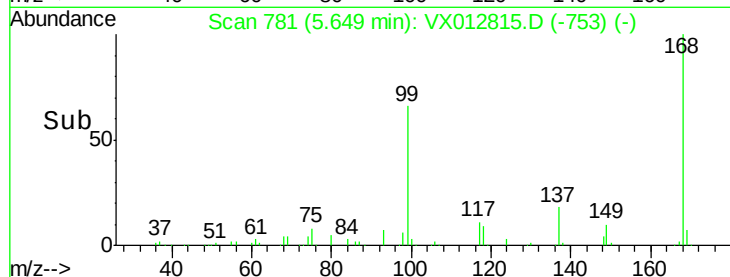
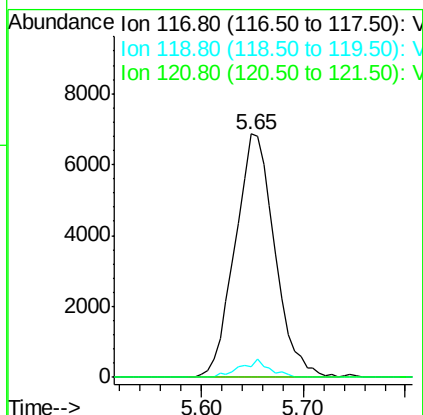
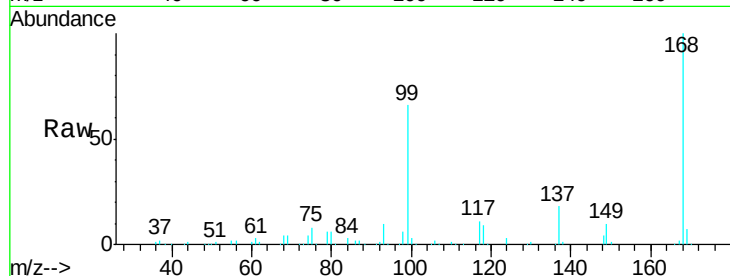




#38
Carbon Tetrachloride
Concen: 6.305 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

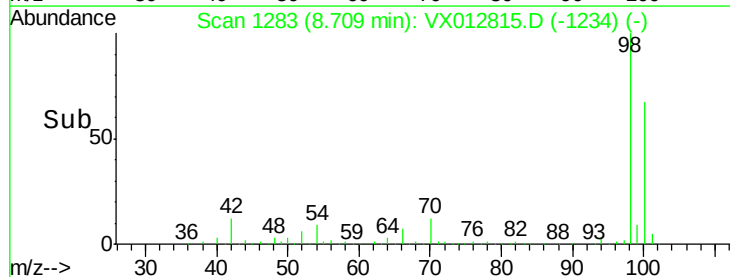
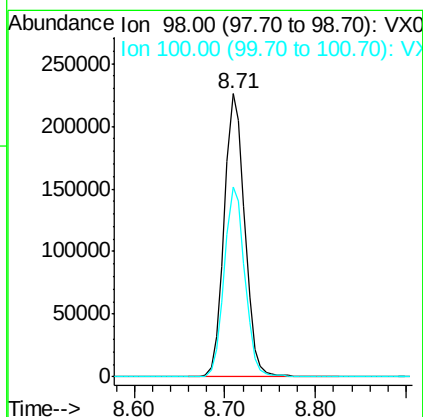
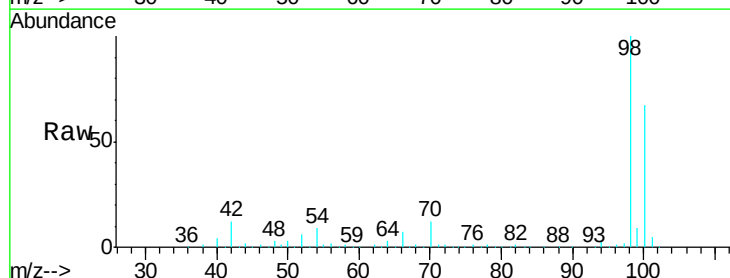
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ139I-20191001

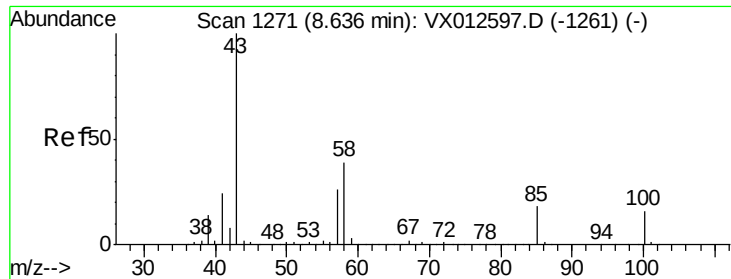
Tgt Ion: 117 Resp: 18544
Ion Ratio Lower Upper
117 100
119 4.3 75.7 113.5#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 51.871 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Tgt Ion: 98 Resp: 357355
Ion Ratio Lower Upper
98 100
100 67.1 53.4 80.2

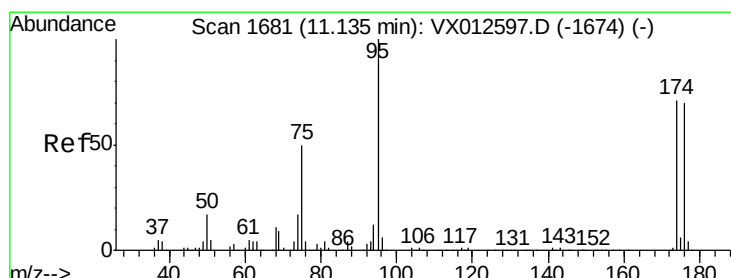
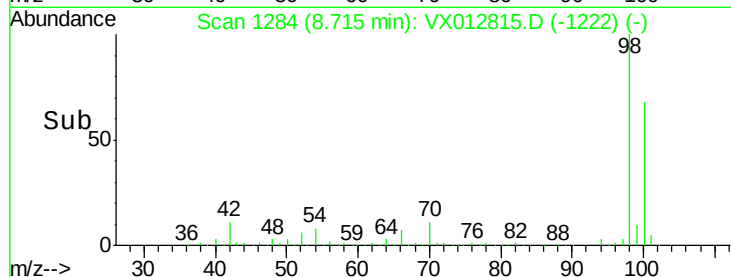
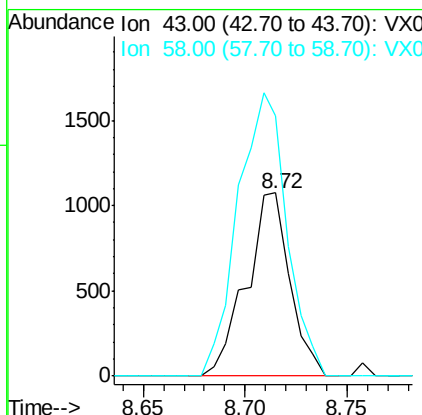
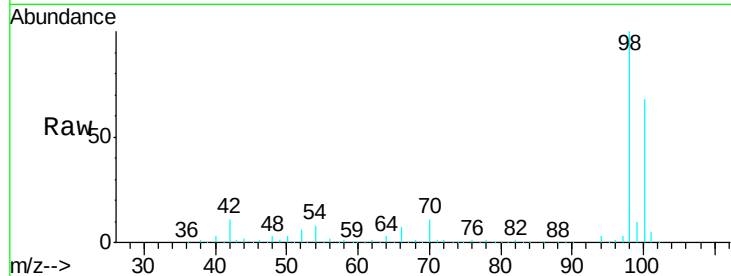




#51
4-Methyl-2-Pentanone
Concen: 0.458 ug/l
RT: 8.72 min Scan# 1284
Delta R.T. 0.08 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

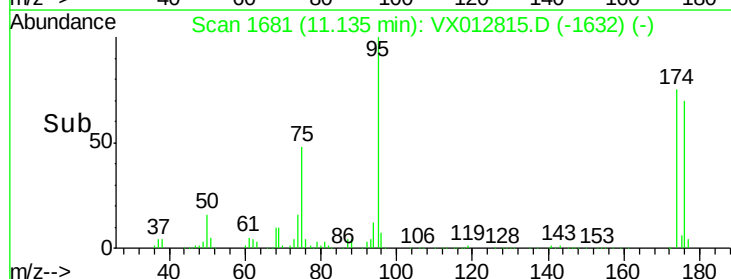
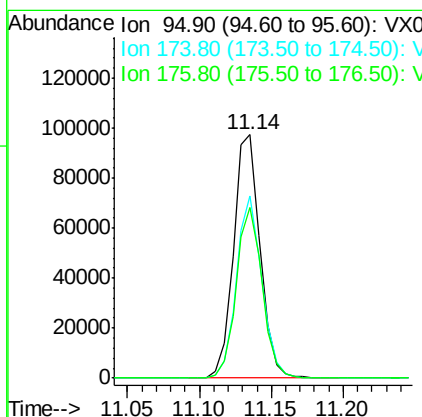
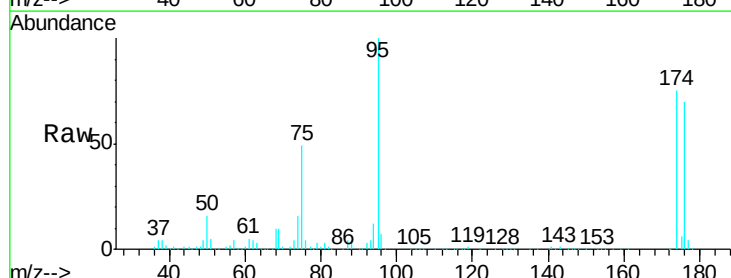
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ139I-20191001

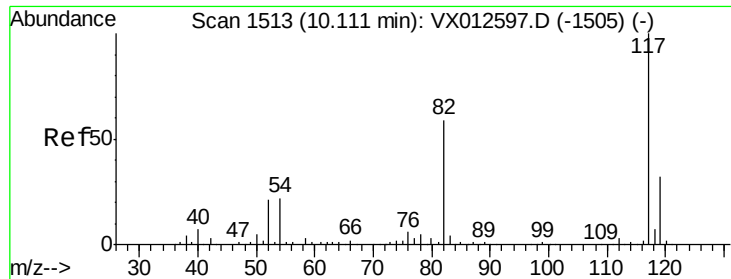
Tgt Ion: 43 Resp: 1602
Ion Ratio Lower Upper
43 100
58 172.5 29.8 44.6#



#62
4-Bromofluorobenzene
Concen: 46.463 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Tgt Ion: 95 Resp: 125864
Ion Ratio Lower Upper
95 100
174 71.4 0.0 140.0
176 68.1 0.0 135.4

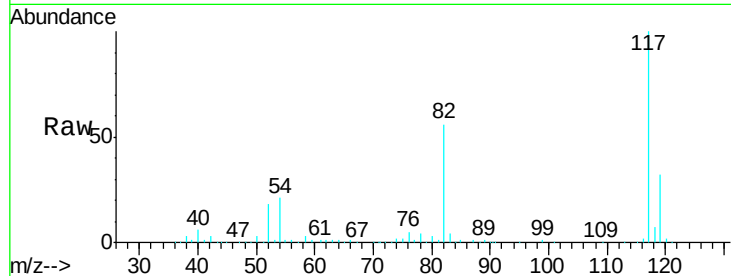




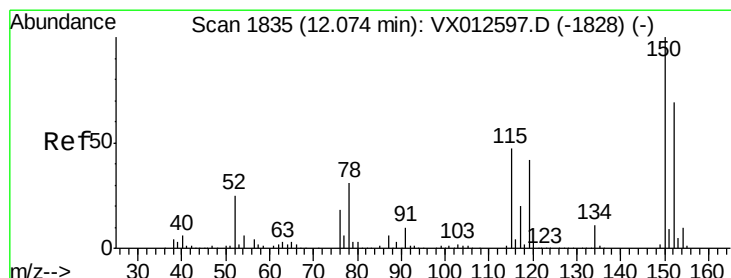
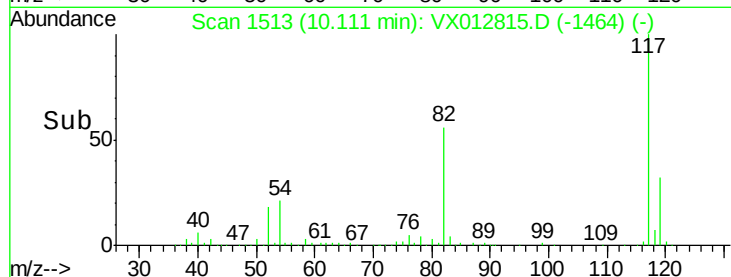
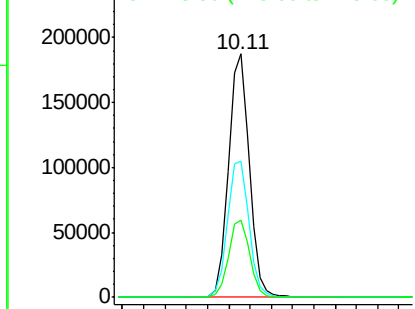
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ139I-20191001

Tgt Ion:117 Resp: 257654
Ion Ratio Lower Upper
117 100
82 56.0 45.9 68.9
119 31.9 25.3 37.9

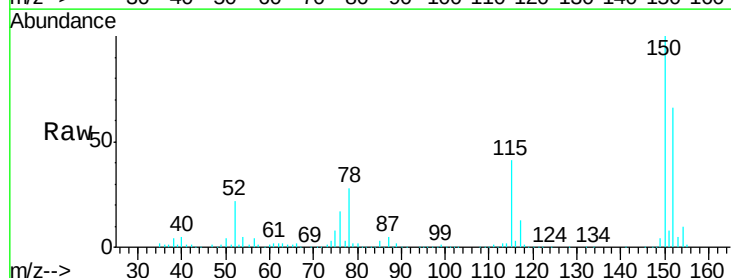


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

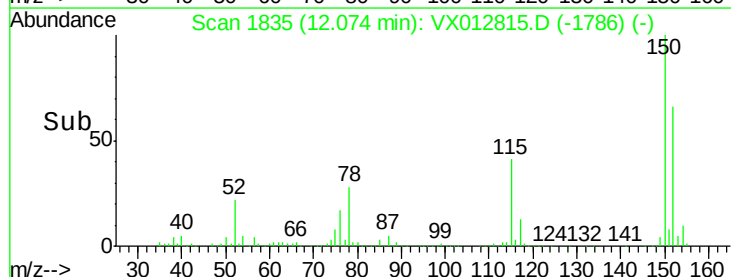
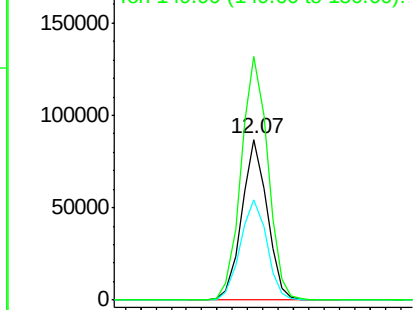


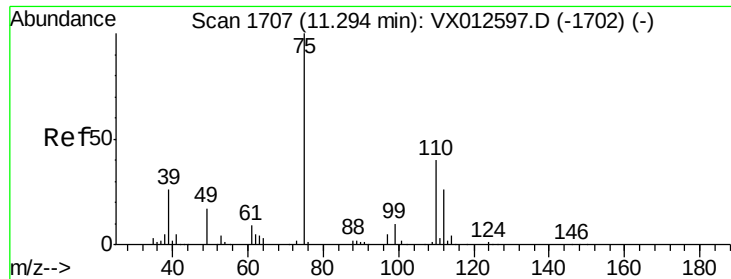
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012815.D
Acq: 04 Oct 2019 16:35

Tgt Ion:152 Resp: 100316
Ion Ratio Lower Upper
152 100
115 65.6 44.1 132.3
150 159.6 0.0 343.8



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





#76

1,2,3-Trichloropropane

Concen: 23.424 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012815.D

Acq: 04 Oct 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

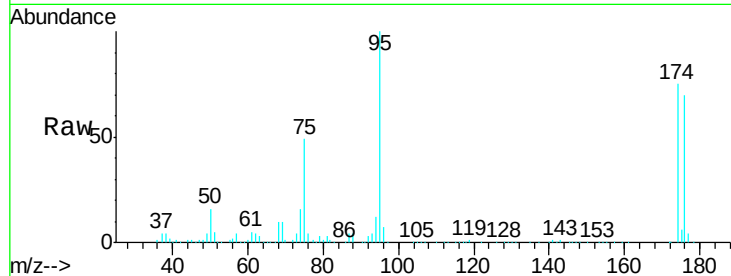
SA-PZ139I-20191001

Tgt Ion: 75 Resp: 62157

Ion Ratio Lower Upper

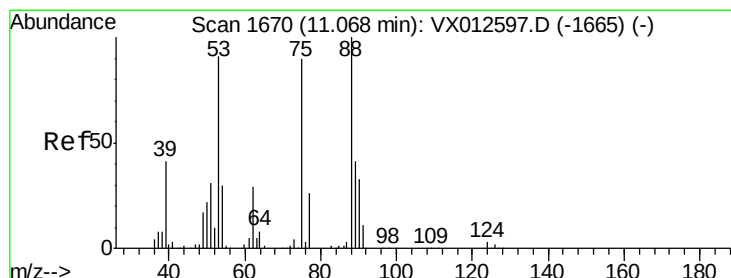
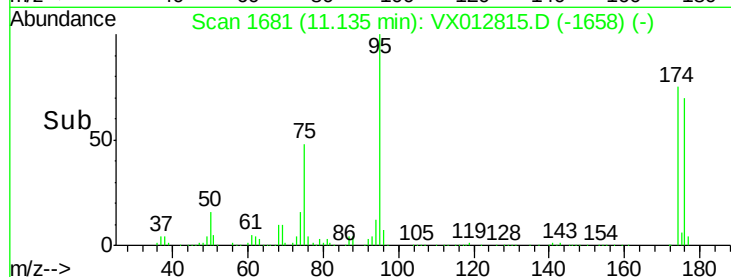
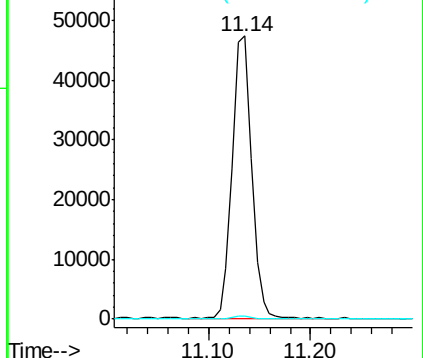
75 100

77 1.2 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.127 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012815.D

Acq: 04 Oct 2019 16:35

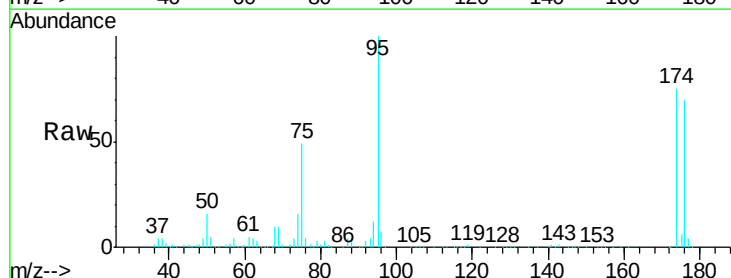
Tgt Ion: 75 Resp: 62157

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

