

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050820\
 Data File : VX016130.D
 Acq On : 08 May 2020 18:43
 Operator : JC/SP
 Sample : L2531-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:52:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	281090	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	463992	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	238517	50.00	ug/l	0.00

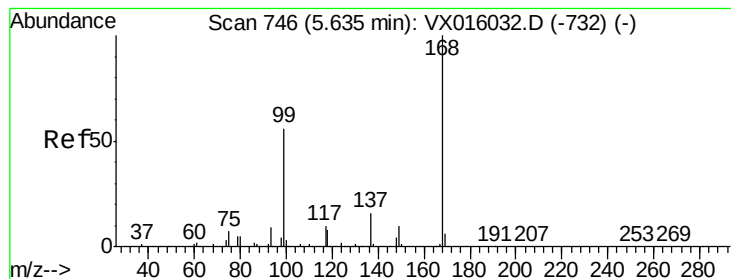
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	175502	47.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.90%	
35) Dibromofluoromethane	5.47	113	141010	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
50) Toluene-d8	8.70	98	577969	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
62) 4-Bromofluorobenzene	11.12	95	232234	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	3.00	59	2935	3.138	ug/l #	74
13) Acrolein	2.28	56	261	0.446	ug/l #	14
16) Acetone	2.42	43	53150	32.204	ug/l	98
18) Methyl Acetate	2.75	43	3844	0.947	ug/l	98
20) Methylene Chloride	2.84	84	13622	4.004	ug/l	92
25) 2-Butanone	4.64	43	8373	3.148	ug/l	100
29) Tetrahydrofuran	5.11	42	2210	1.254	ug/l #	84
31) Cyclohexane	5.63	56	5468	1.064	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	21846	4.783	ug/l #	50
37) Ethyl Acetate	4.64	43	8373	1.582	ug/l #	76
38) Carbon Tetrachloride	5.63	117	27125	5.843	ug/l #	13
43) Isopropyl Acetate	6.42	43	80741	9.559	ug/l	99
48) Methyl methacrylate	7.65	41	5423	1.355	ug/l #	14
49) 1,4-Dioxane	7.85	88	322	3.355	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	75460	14.600	ug/l #	43
54) cis-1,3-Dichloropropene	8.60	75	33697	5.781	ug/l #	57
57) 1,3-Dichloropropane	9.52	76	6311	1.104	ug/l #	47
59) 2-Hexanone	9.52	43	77523	19.099	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	11.13	83	258	2.129	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	114910	21.230	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	114910	50.594	ug/l #	13
94) Hexachlorobutadiene	13.77	225	59	0.547	ug/l #	32
95) Naphthalene	13.82	128	136012	7.328	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

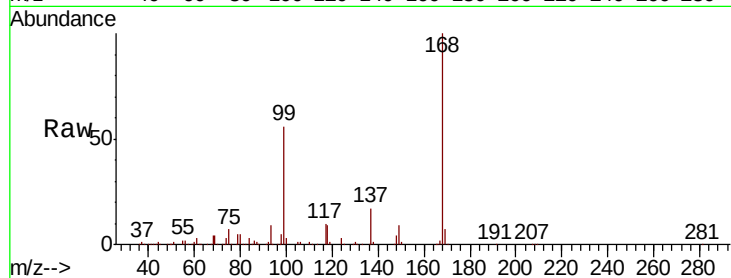
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 281090

Ion Ratio Lower Upper

168 100

99 56.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

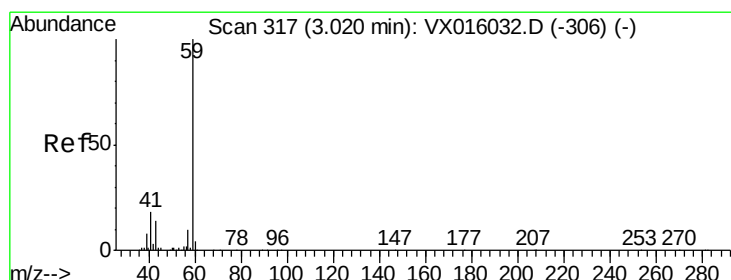
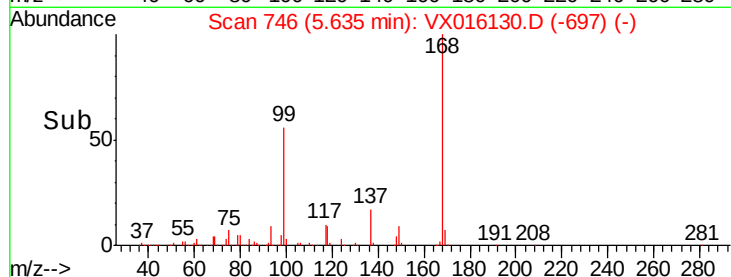
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 3.138 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX016130.D

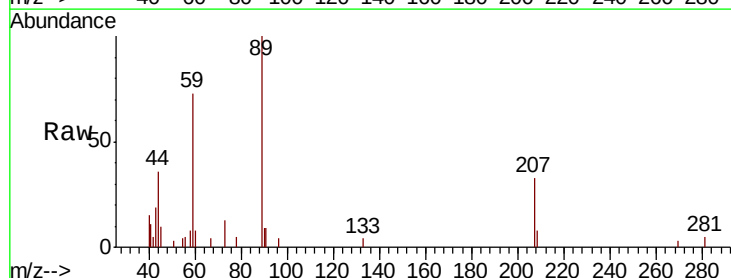
Acq: 08 May 2020 18:43

Tgt Ion: 59 Resp: 2935

Ion Ratio Lower Upper

59 100

57 0.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

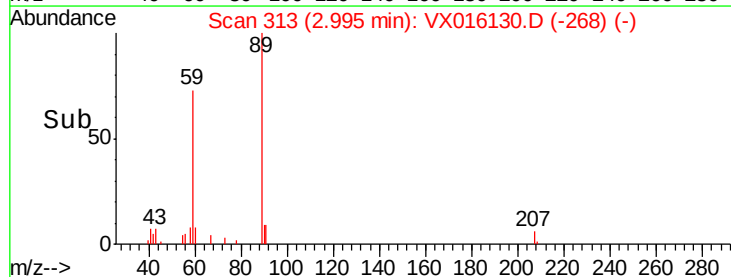
1000

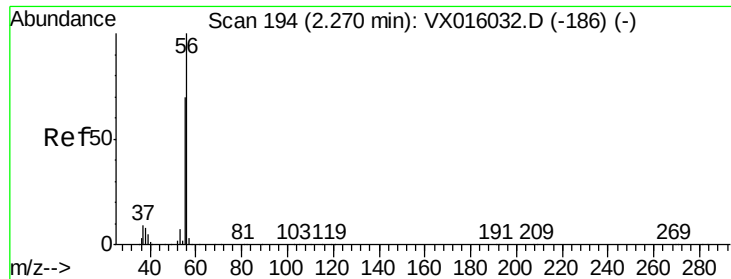
500

0

Time-->

2.95 3.00 3.05





#13

Acrolein

Concen: 0.446 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

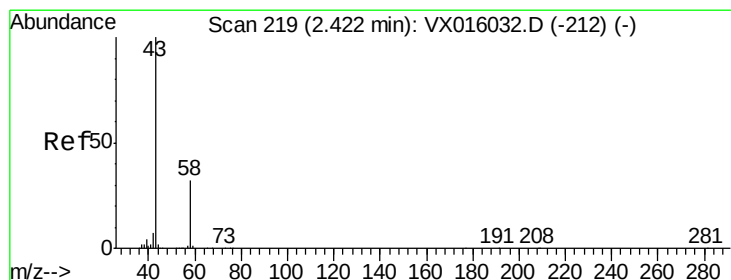
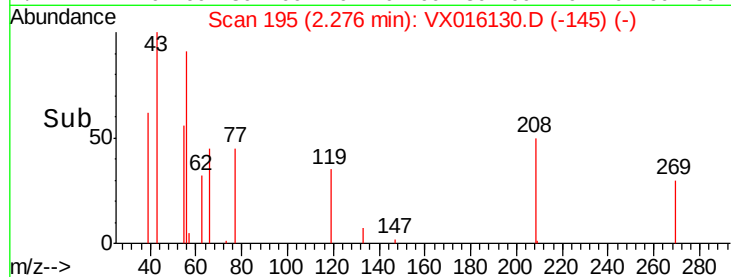
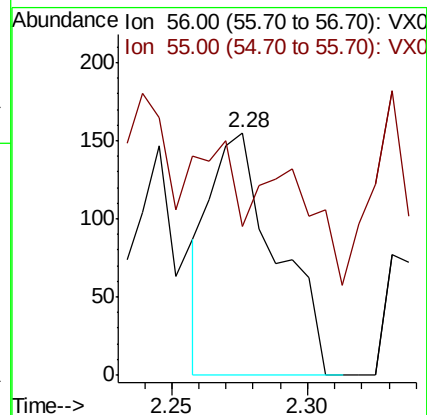
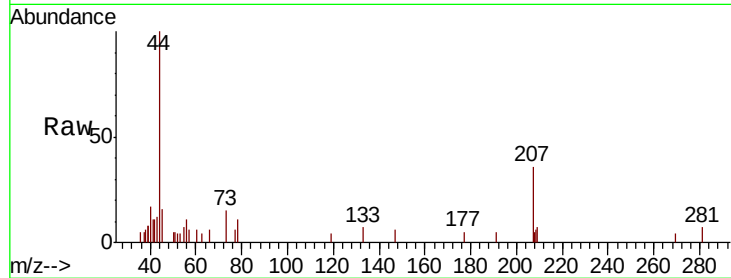
ClientSampled :

Tot Ion: 56 Resp: 261

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



#16

Acetone

Concen: 32.204 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016130.D

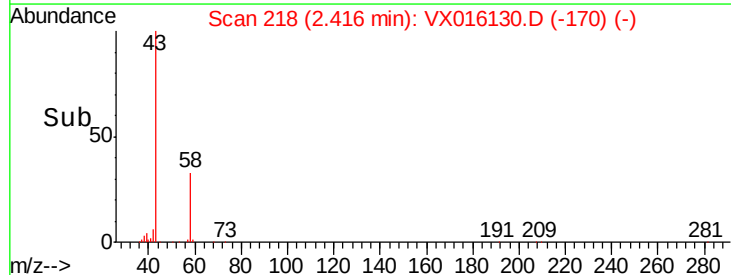
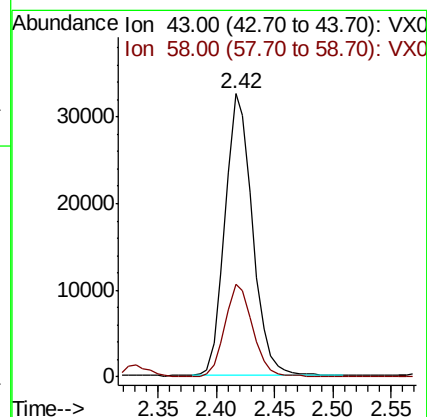
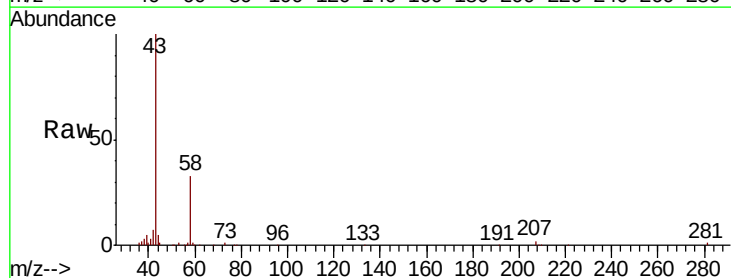
Acq: 08 May 2020 18:43

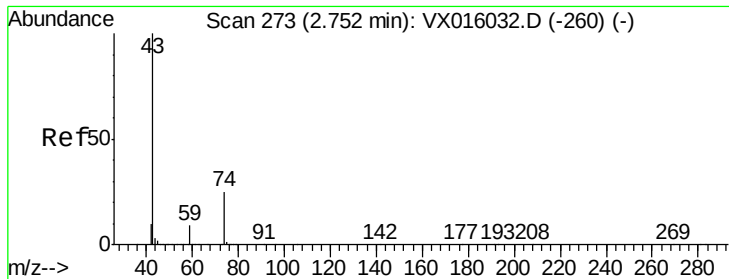
Tgt Ion: 43 Resp: 53150

Ion Ratio Lower Upper

43 100

58 33.0 25.4 38.0

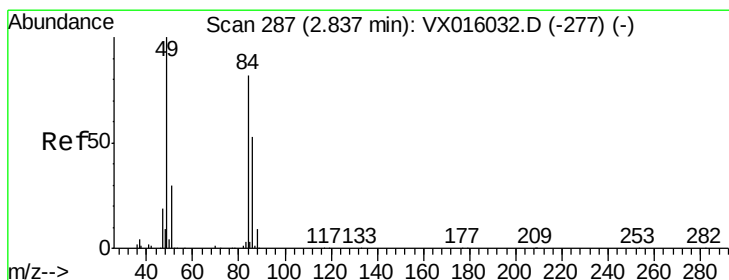
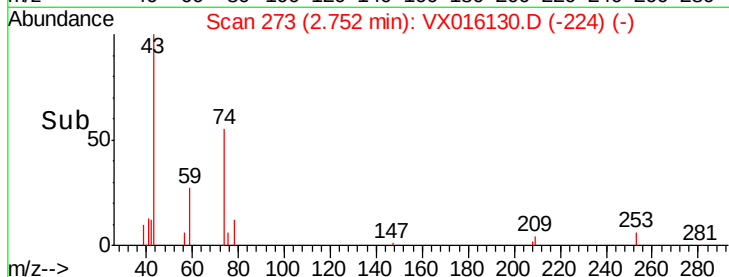
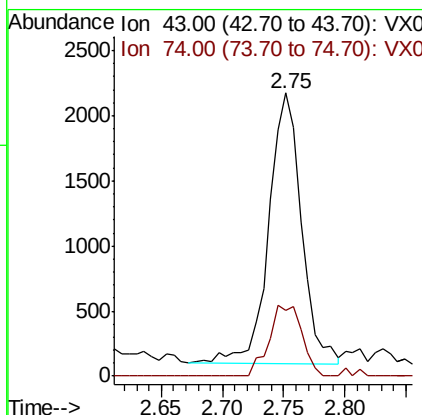
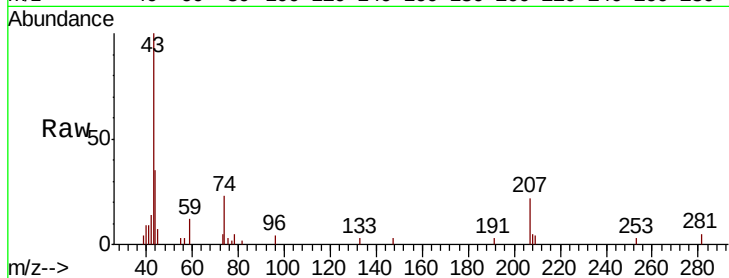




#18
Methvl Acetate
Concen: 0.947 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

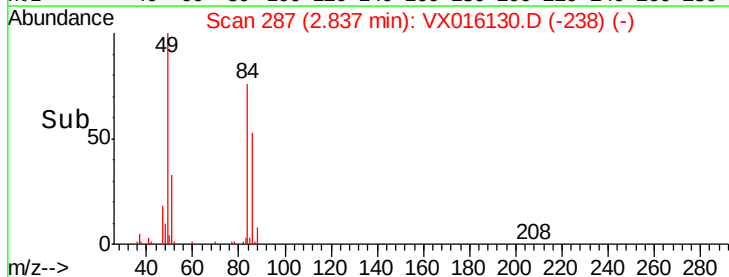
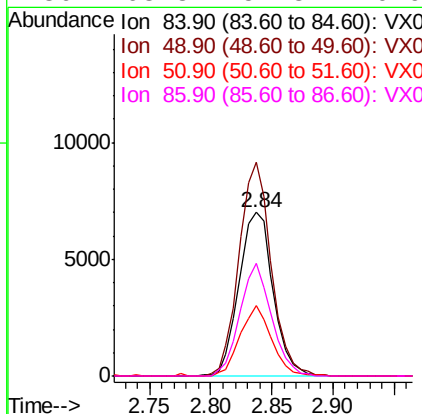
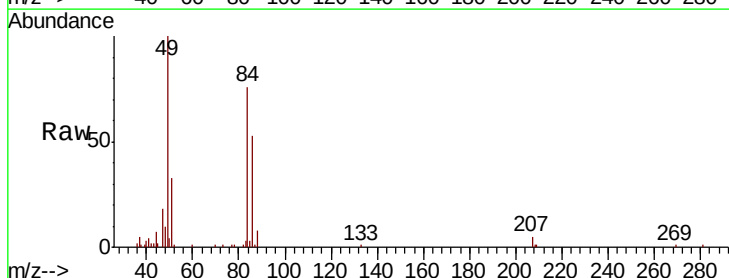
Instrument :
MSVOA_X
ClientSampleId :

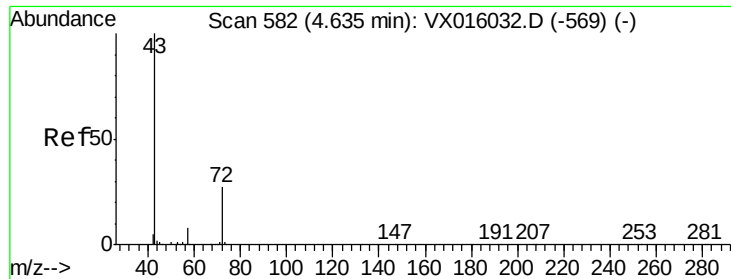
Tot Ion: 43 Resp: 3844
Ion Ratio Lower Upper
43 100
74 26.4 20.2 30.2



#20
Methylene Chloride
Concen: 4.004 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion: 84 Resp: 13622
Ion Ratio Lower Upper
84 100
49 130.8 97.3 145.9
51 42.9 29.3 43.9
86 68.8 51.3 76.9





#25

2-Butanone

Concen: 3.148 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

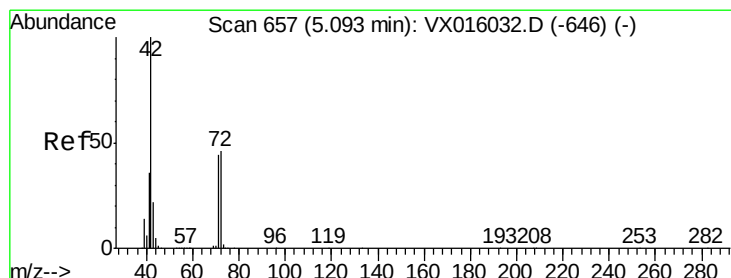
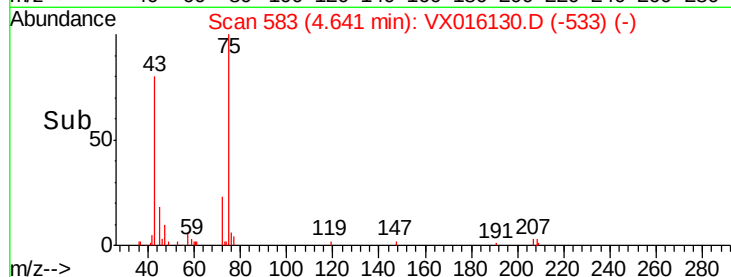
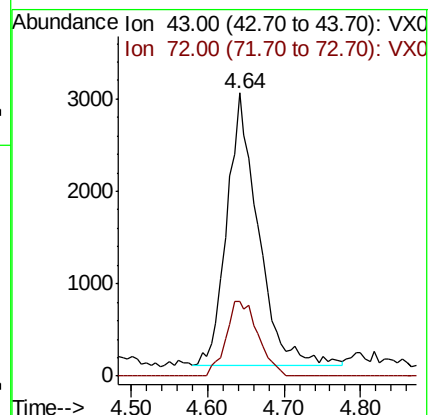
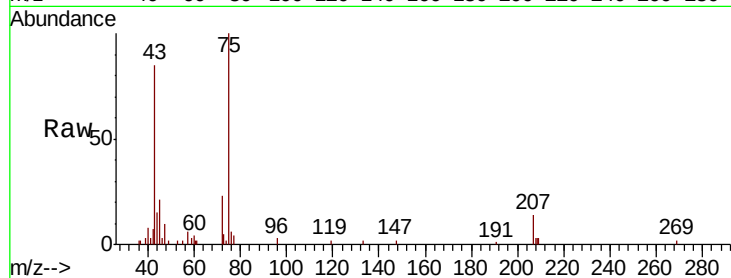
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 8373

Ion Ratio Lower Upper

43 100

72 27.5 21.8 32.8



#29

Tetrahydrofuran

Concen: 1.254 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

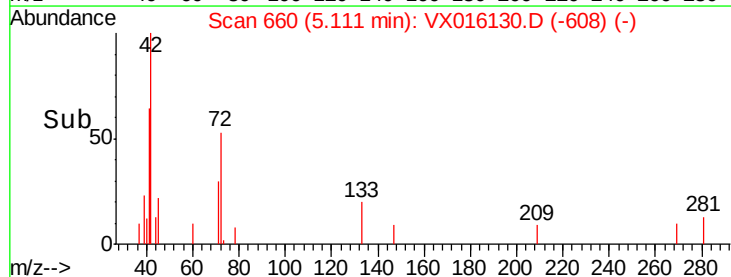
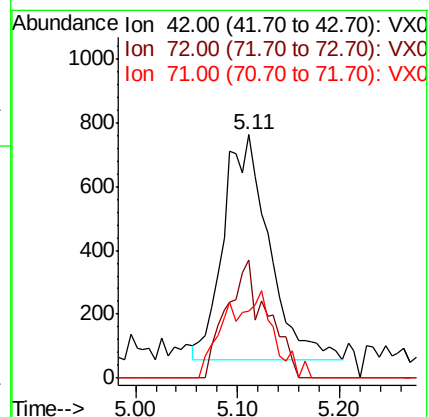
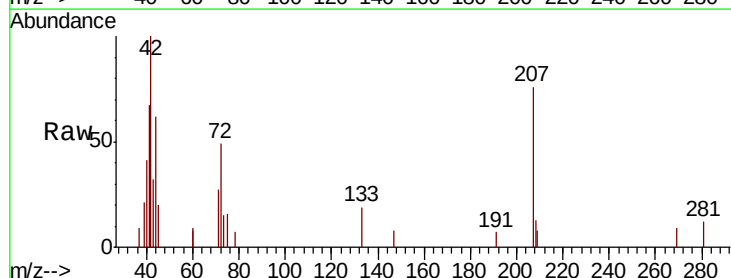
Tgt Ion: 42 Resp: 2210

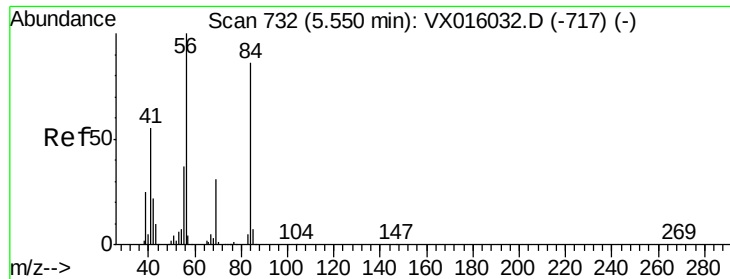
Ion Ratio Lower Upper

42 100

72 46.4 37.1 55.7

71 21.8 34.5 51.7#

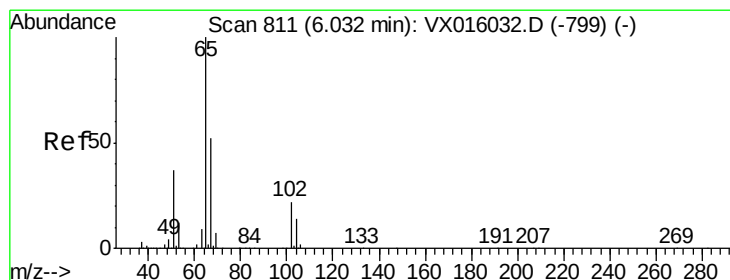
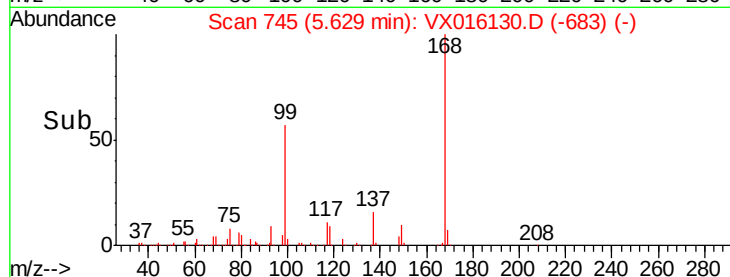
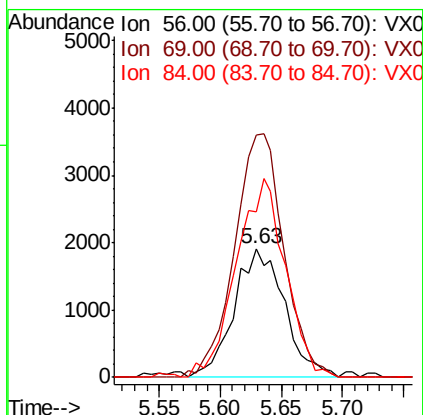
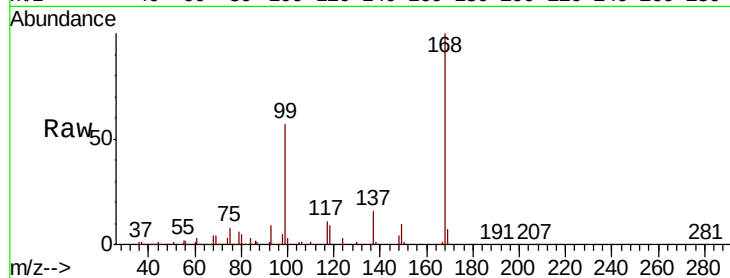




#31
Cyclohexane
Concen: 1.064 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

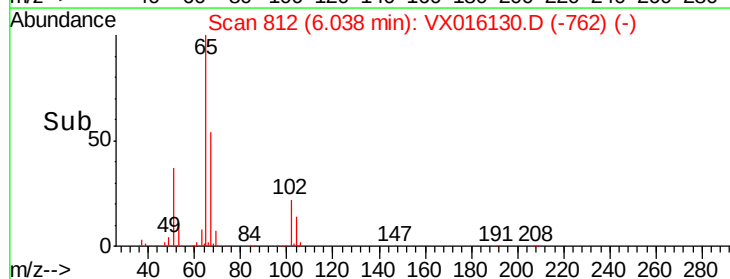
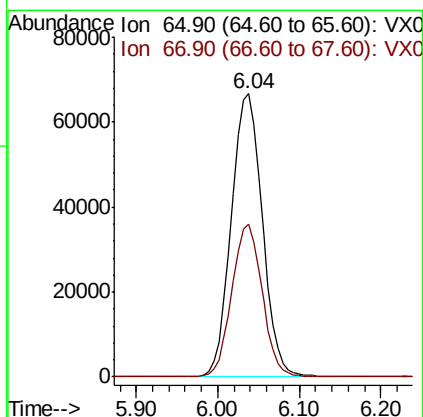
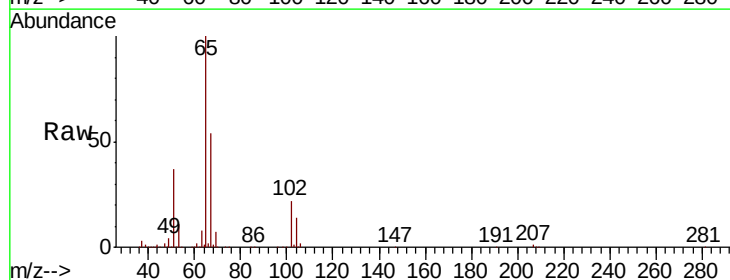
Instrument :
MSVOA_X
ClientSampleId :

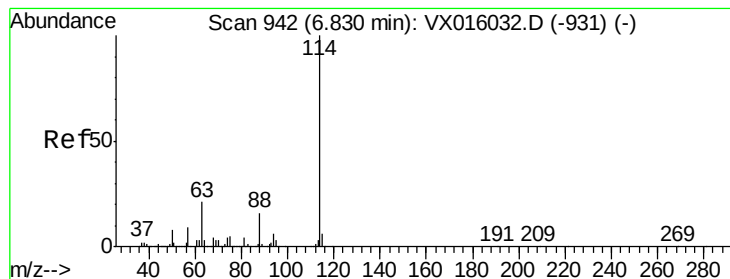
Tot Ion: 56 Resp: 5468
Ion Ratio Lower Upper
56 100
69 188.2 25.0 37.6#
84 128.4 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 47.448 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion: 65 Resp: 175502
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

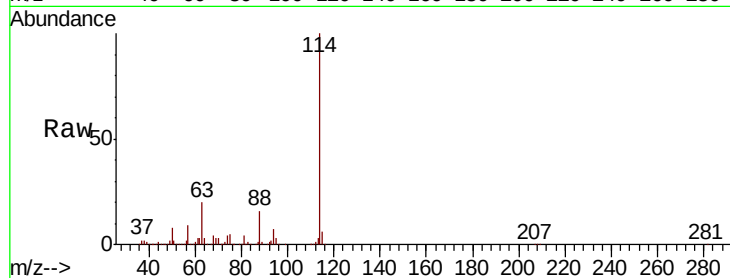
Tot Ion:114 Resp: 463992

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.8

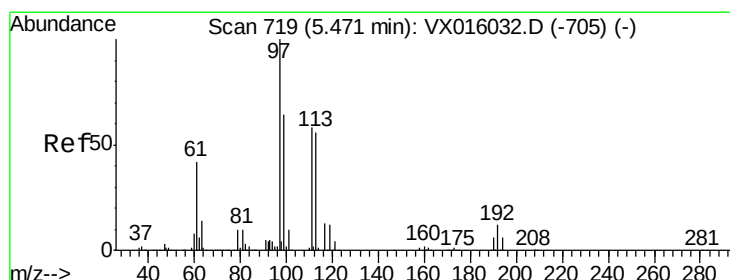
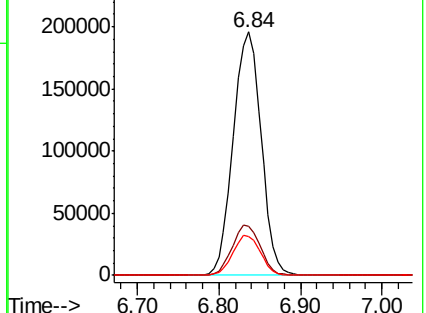
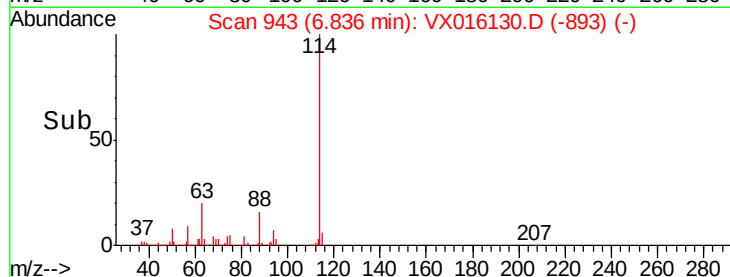
88 16.2 0.0 31.4



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: 47.969 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

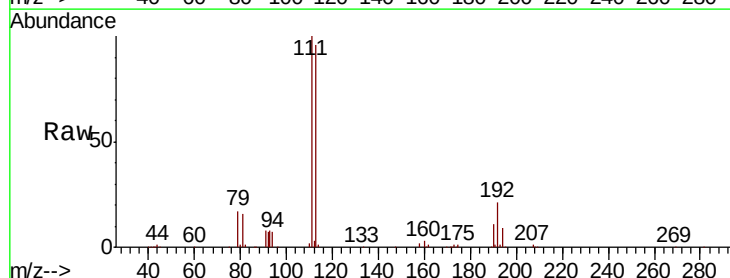
Tgt Ion:113 Resp: 141010

Ion Ratio Lower Upper

113 100

111 103.6 81.6 122.4

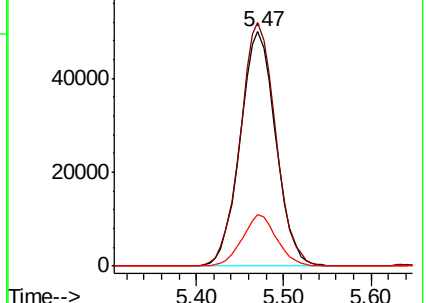
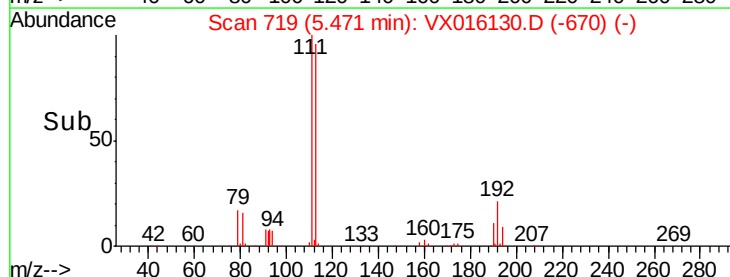
192 21.2 17.0 25.4

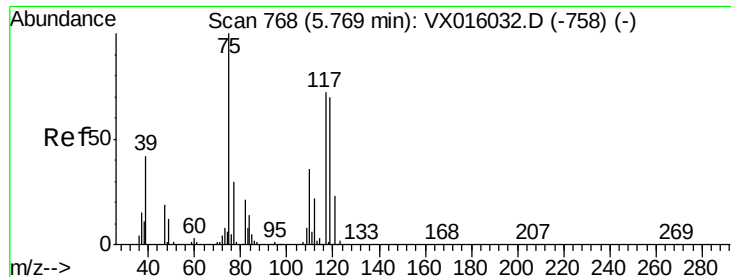


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.783 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

ClientSampled :

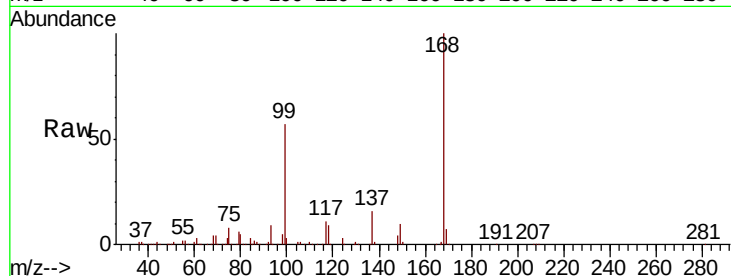
Tot Ion: 75 Resp: 21846

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.1#

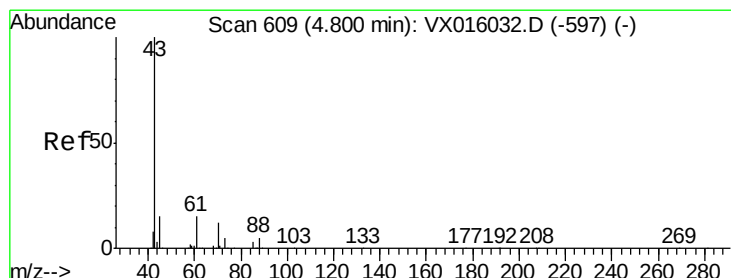
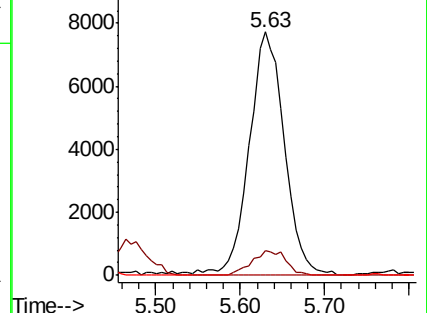
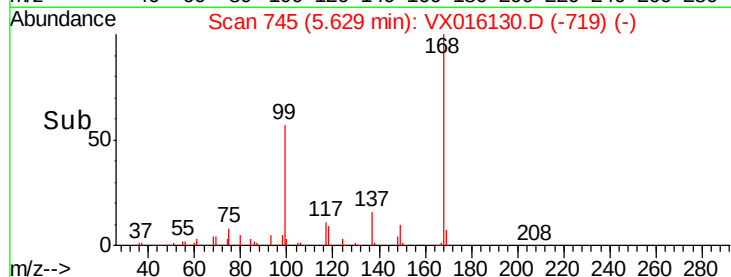
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.582 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

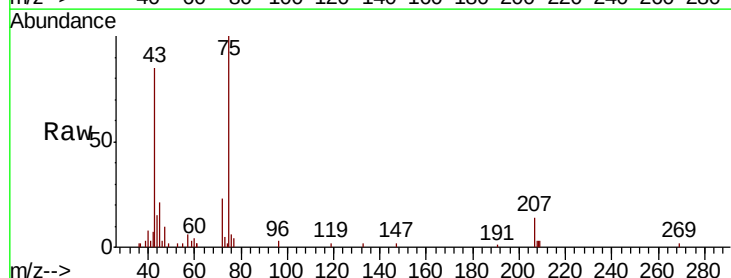
Tgt Ion: 43 Resp: 8373

Ion Ratio Lower Upper

43 100

61 6.6 11.7 17.5#

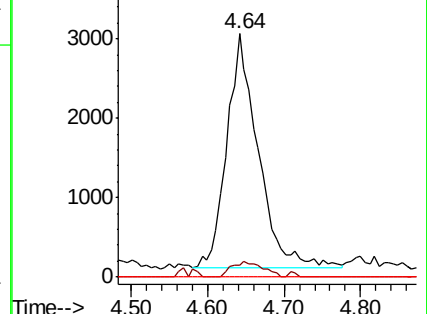
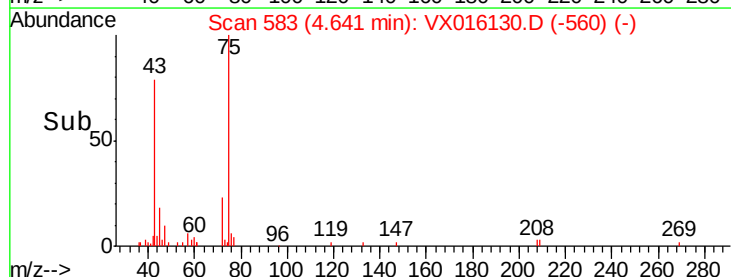
70 0.0 9.3 13.9#

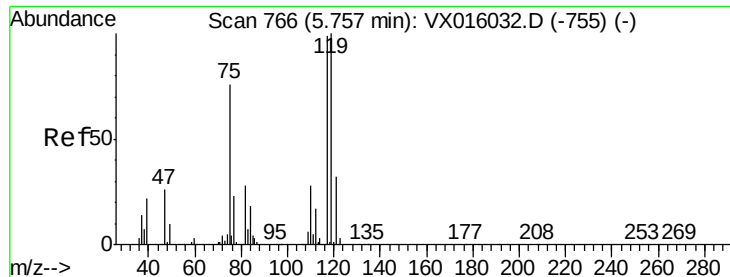


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

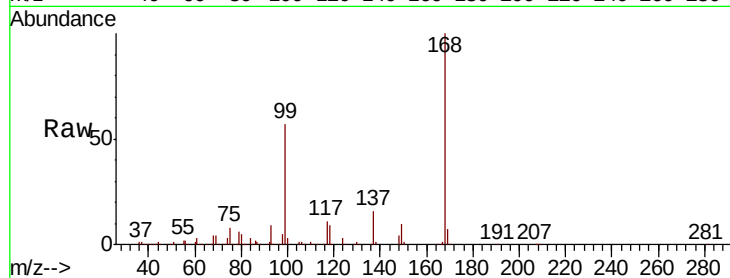




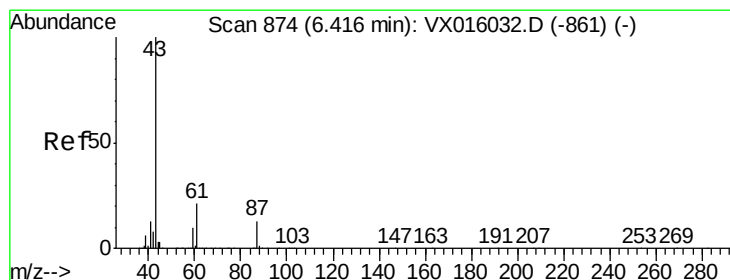
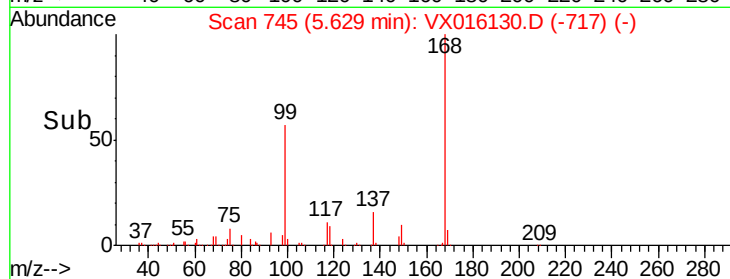
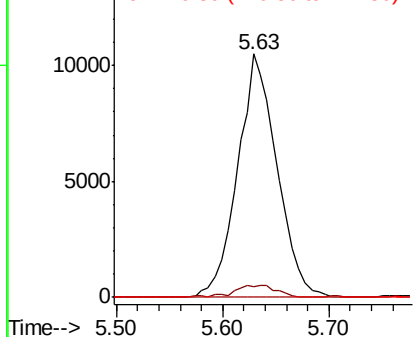
#38
Carbon Tetrachloride
Concen: 5.843 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 27125
Ion Ratio Lower Upper
117 100
119 4.2 80.3 120.5#
121 0.0 25.7 38.5#

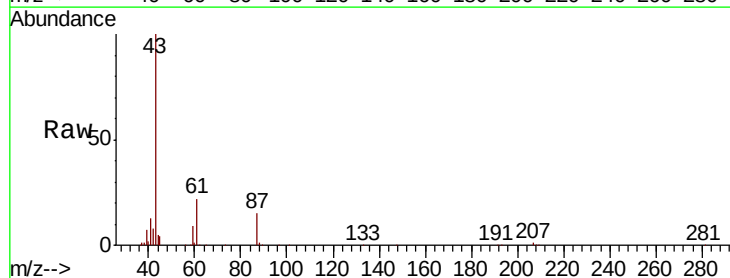


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

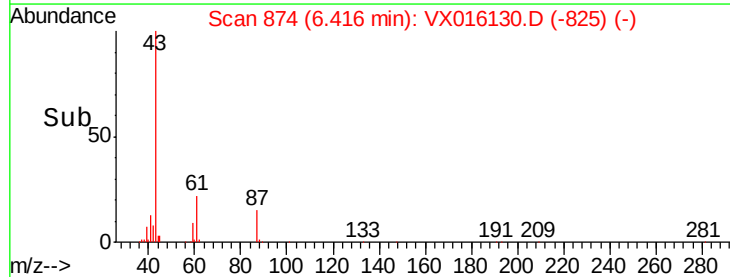
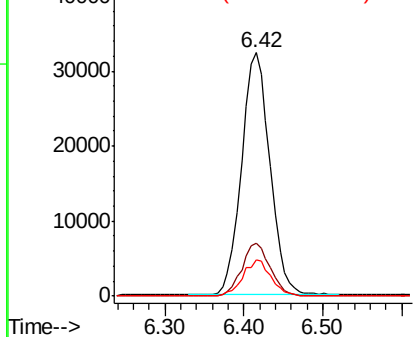


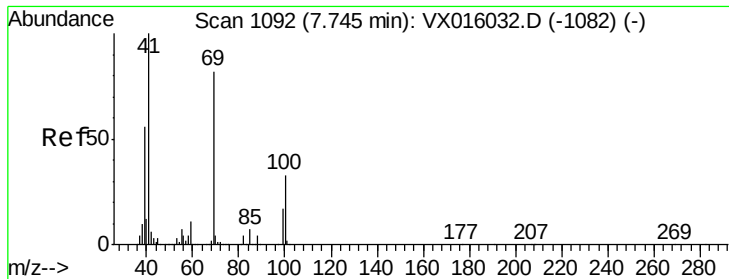
#43
Isopropyl Acetate
Concen: 9.559 ug/l
RT: 6.42 min Scan# 874
Delta R.T. 0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion: 43 Resp: 80741
Ion Ratio Lower Upper
43 100
61 21.7 17.0 25.4
87 14.5 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

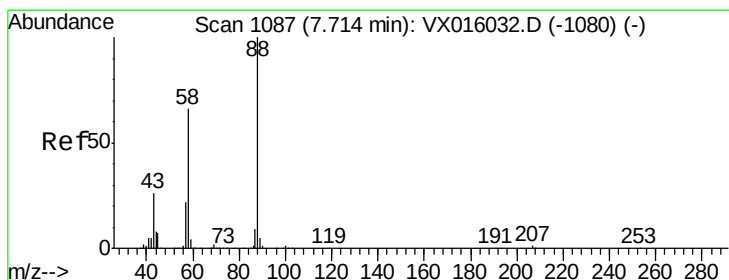
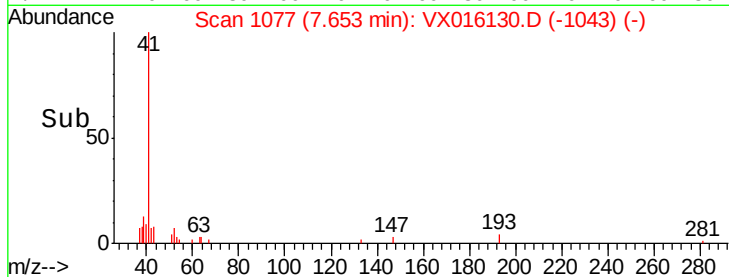
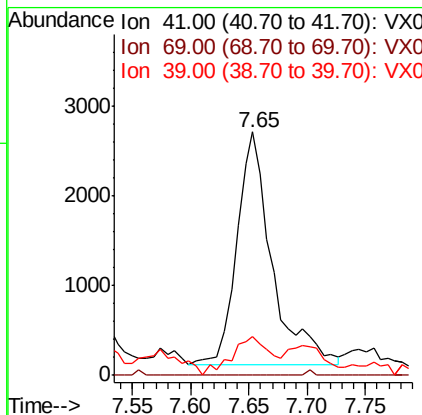
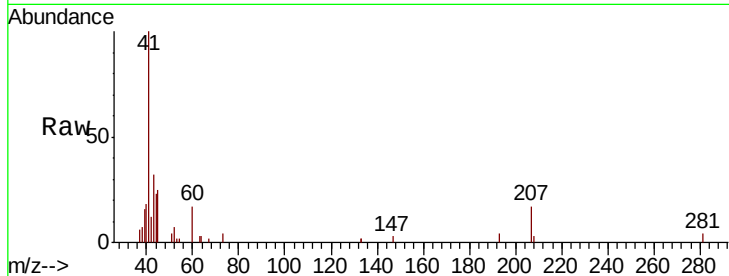




#48
Methvl methacrylate
Concen: 1.355 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

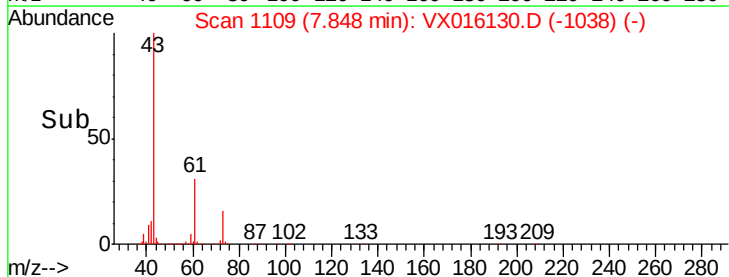
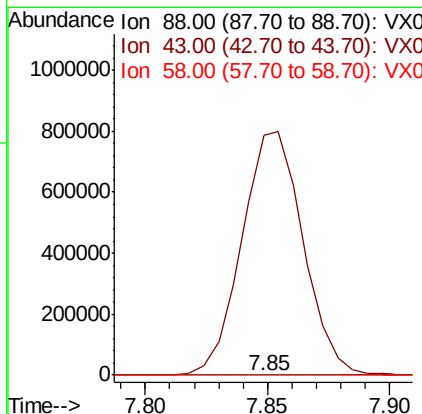
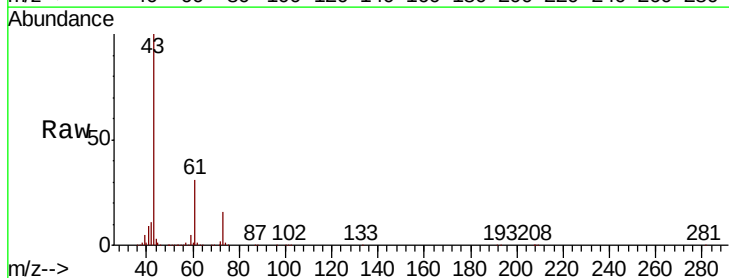
Instrument :
MSVOA_X
ClientSampleId :

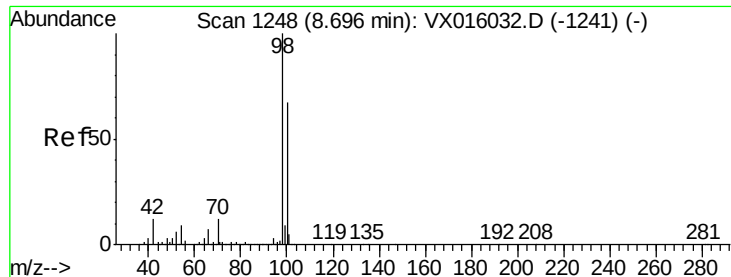
Tot Ion: 41 Resp: 5423
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 3.355 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.13 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion: 88 Resp: 322
Ion Ratio Lower Upper
88 100
43 434122.7 25.3 37.9#
58 1907.8 55.9 83.9#

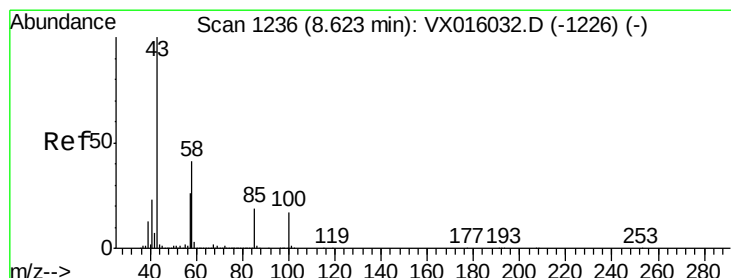
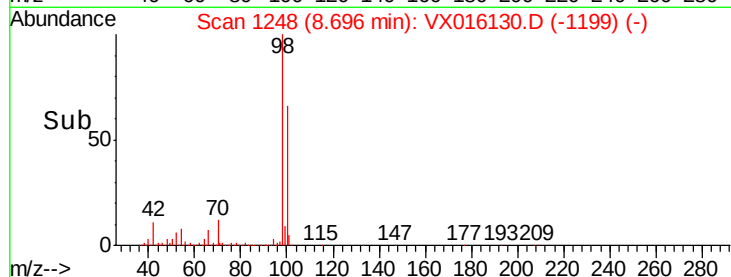
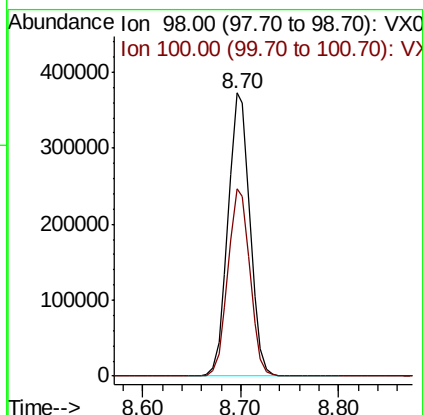
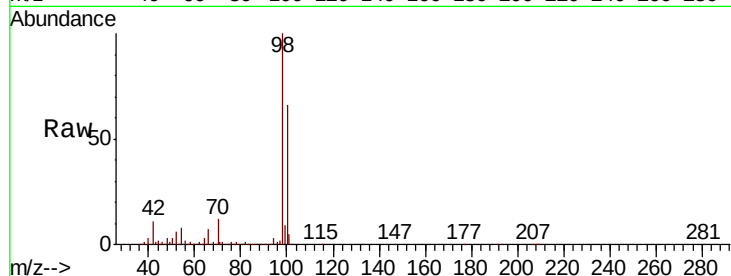




#50
Toluene-d8
Concen: 51.028 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

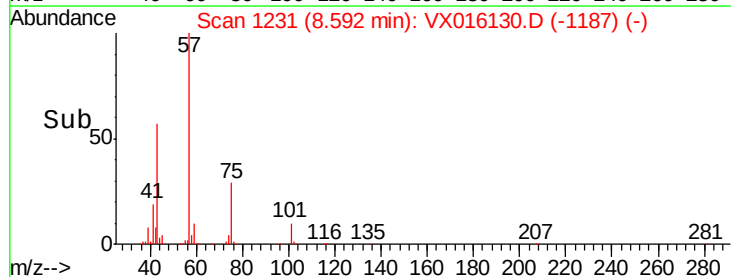
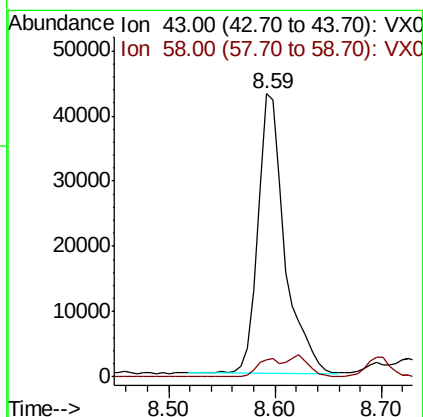
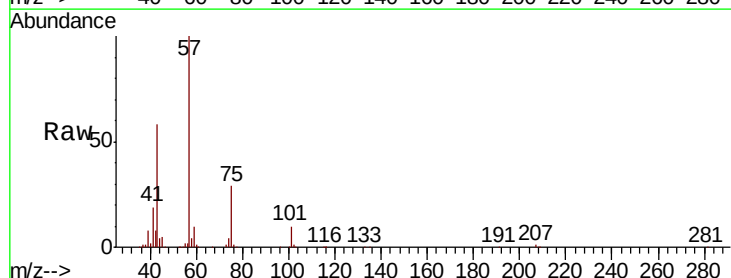
Instrument :
MSVOA_X
ClientSampleId :

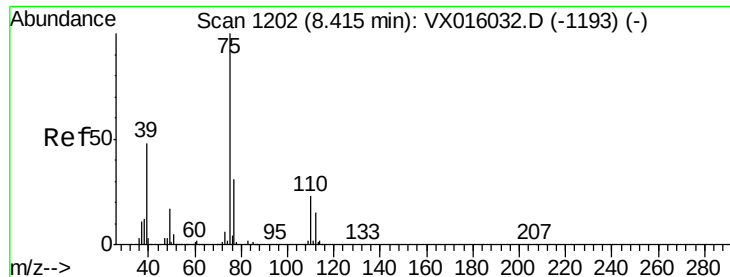
Tot Ion: 98 Resp: 577969
Ion Ratio Lower Upper
98 100
100 66.5 53.7 80.5



#51
4-Methyl-2-Pentanone
Concen: 14.600 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion: 43 Resp: 75460
Ion Ratio Lower Upper
43 100
58 5.4 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 5.781 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

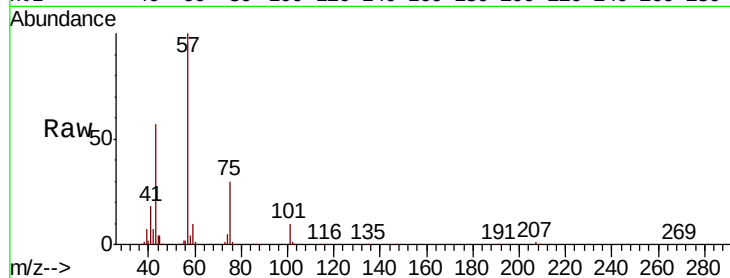
Tot Ion: 75 Resp: 33697

Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

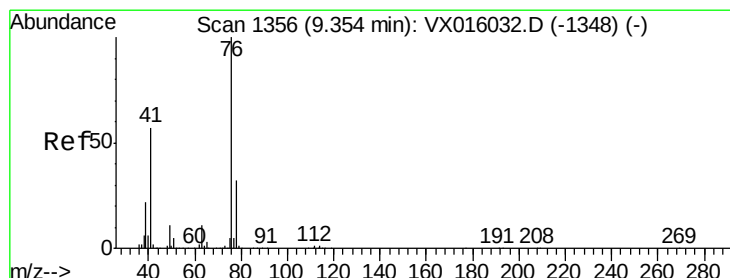
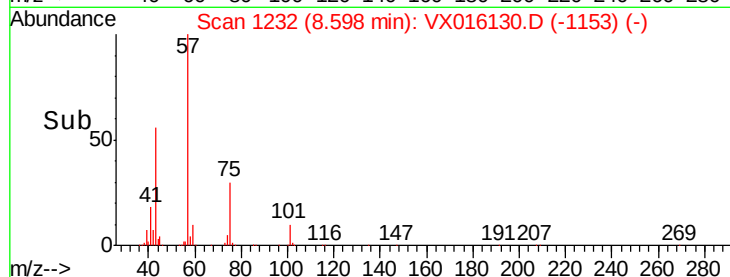
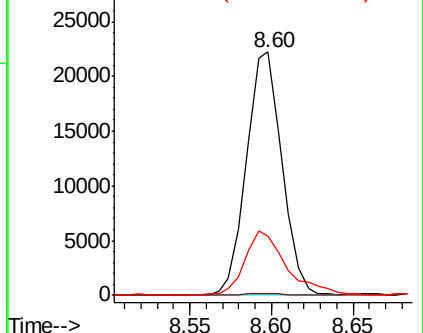
39 24.1 38.7 58.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropene

Concen: 1.104 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016130.D

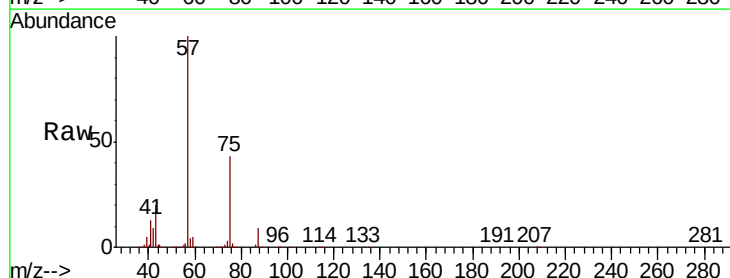
Acq: 08 May 2020 18:43

Tgt Ion: 76 Resp: 6311

Ion Ratio Lower Upper

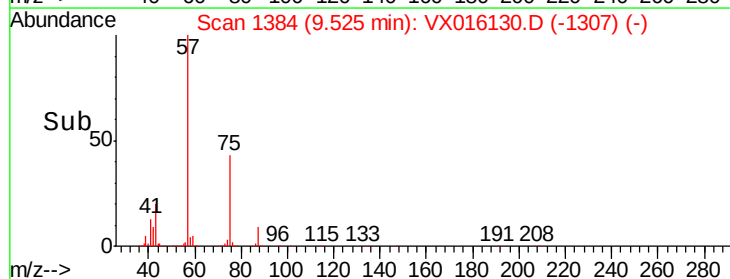
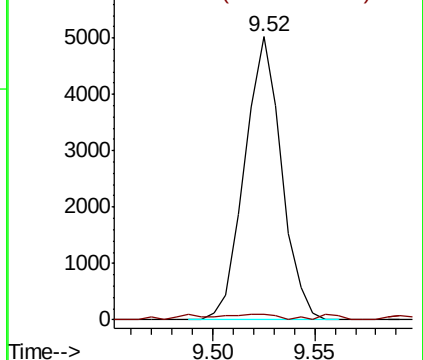
76 100

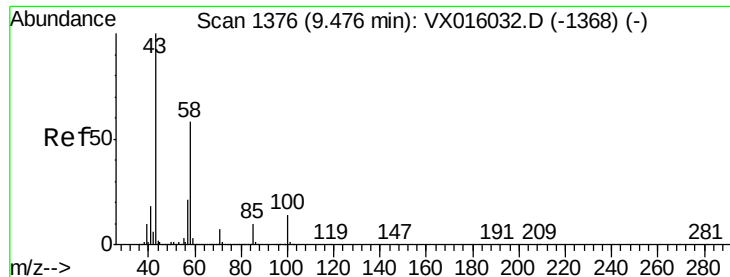
78 2.4 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

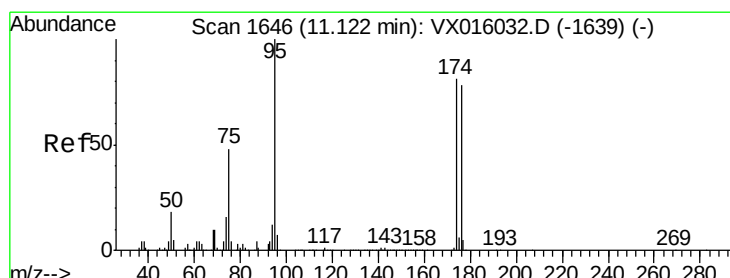
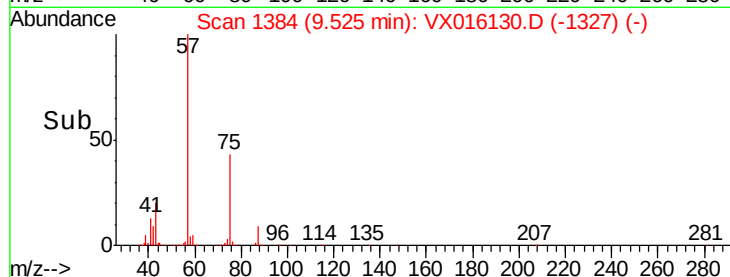
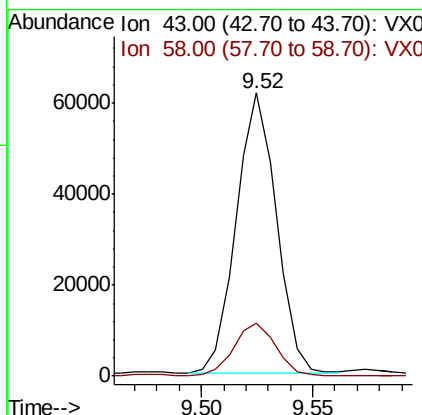
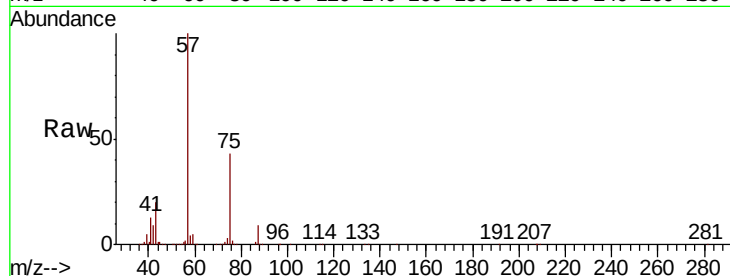




#59
2-Hexanone
Concen: 19.099 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

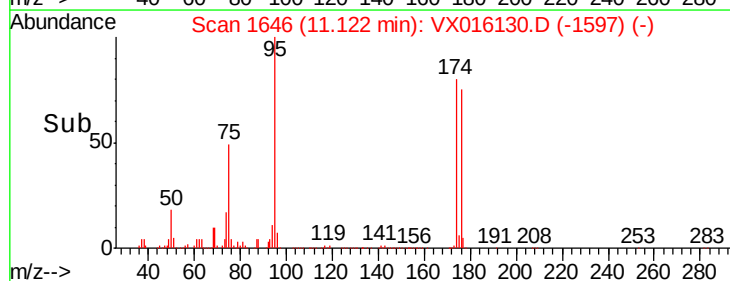
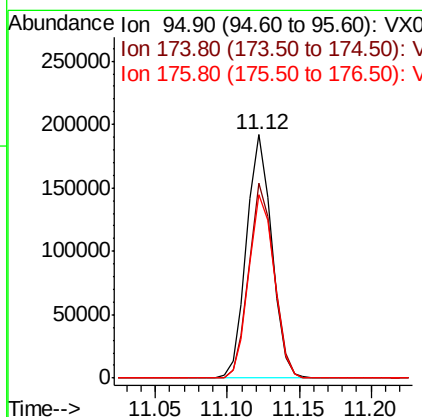
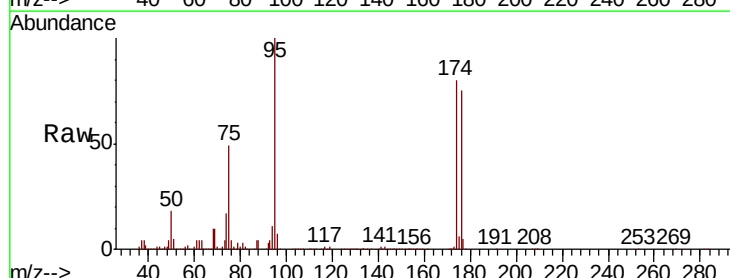
Instrument :
MSVOA_X
ClientSampleId :

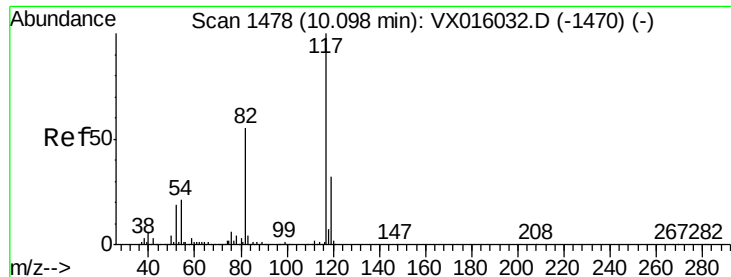
Tot Ion: 43 Resp: 77523
Ion Ratio Lower Upper
43 100
58 19.8 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 53.907 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion: 95 Resp: 232234
Ion Ratio Lower Upper
95 100
174 79.7 0.0 159.4
176 76.7 0.0 157.6

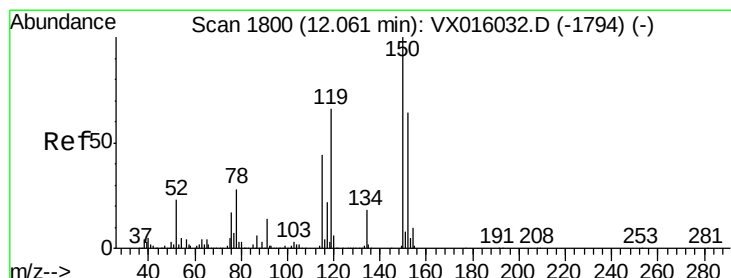
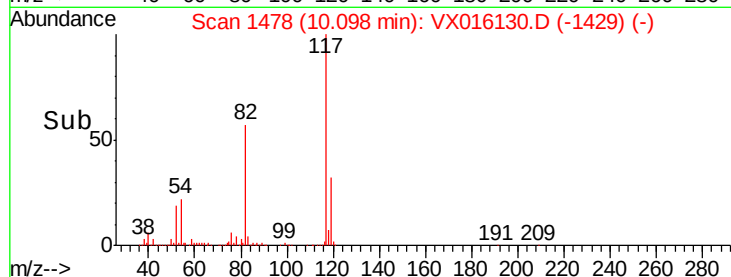
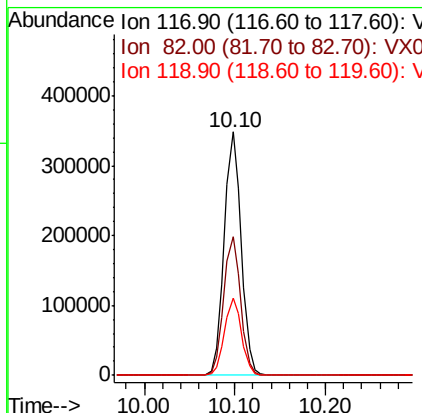
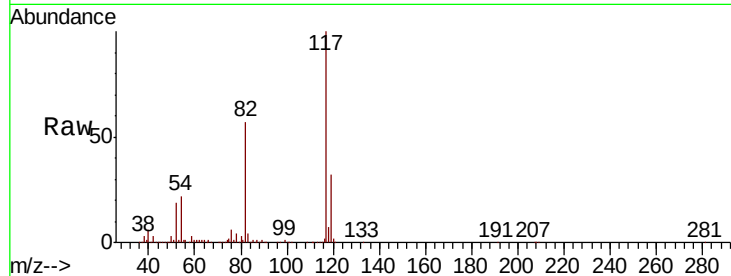




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

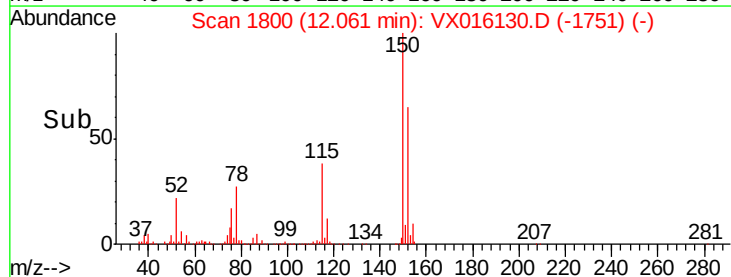
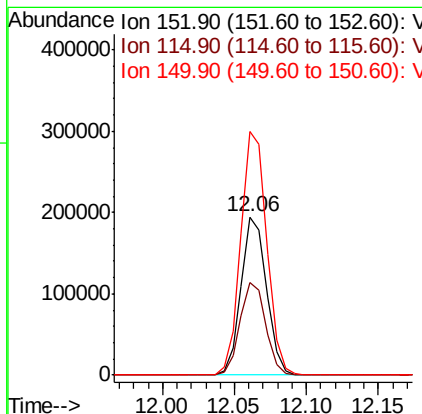
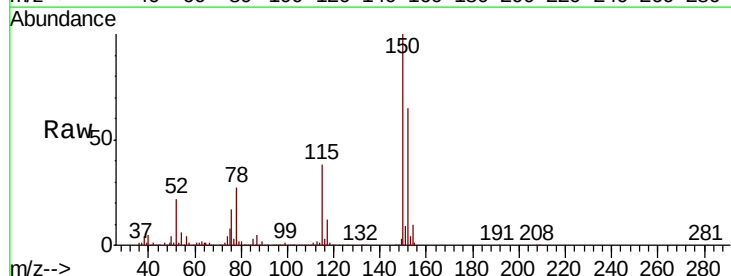
Instrument :
MSVOA_X
ClientSampleId :

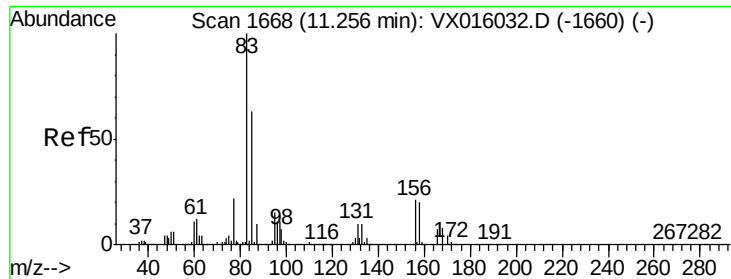
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.4	66.6
119	31.6	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX016130.D
Acq: 08 May 2020 18:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.2	41.3	124.1
150	157.2	0.0	352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.129 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

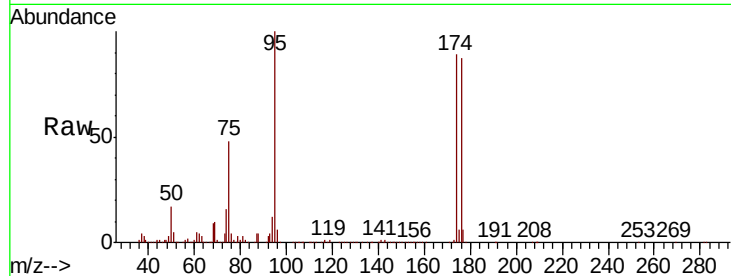
Tot Ion: 83 Resp: 258

Ion Ratio Lower Upper

83 100

131 149.2 5.1 15.4#

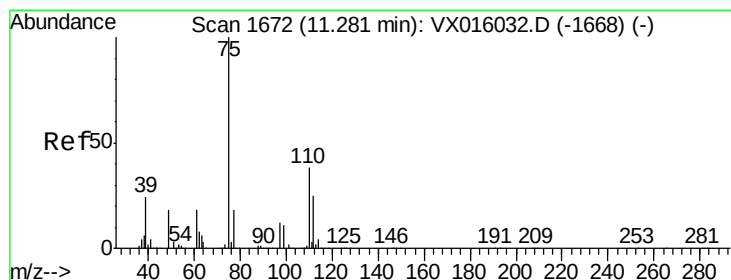
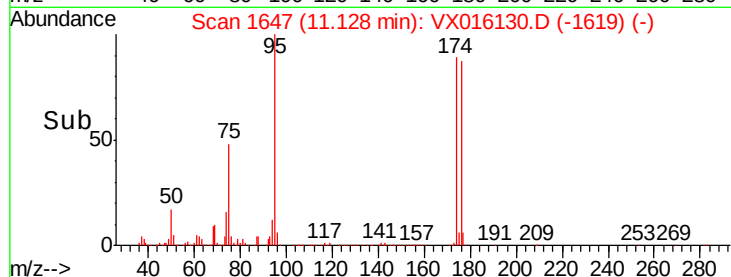
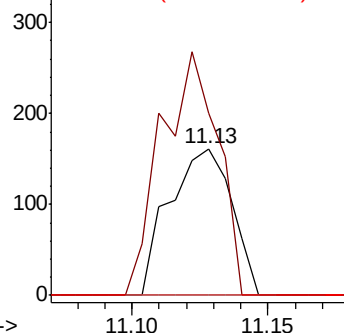
85 0.0 32.0 96.0#



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: 21.230 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016130.D

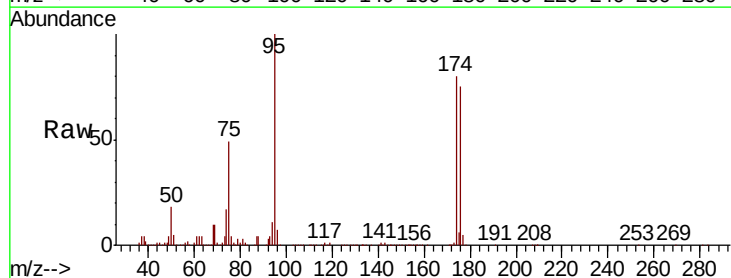
Acq: 08 May 2020 18:43

Tgt Ion: 75 Resp: 114910

Ion Ratio Lower Upper

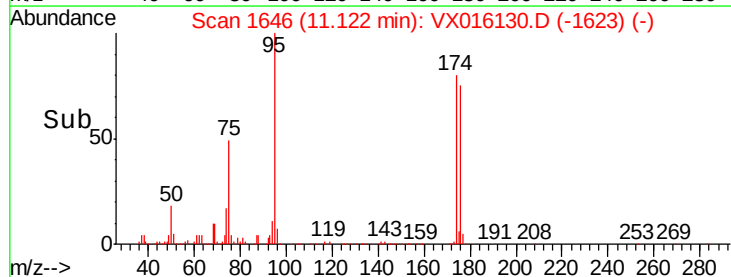
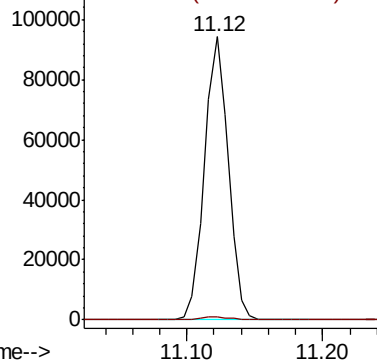
75 100

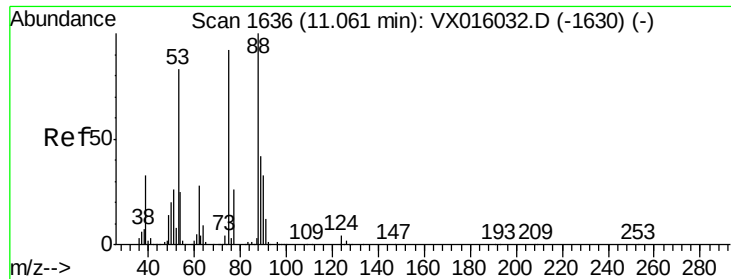
77 1.4 21.2 63.6#



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: 50.594 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

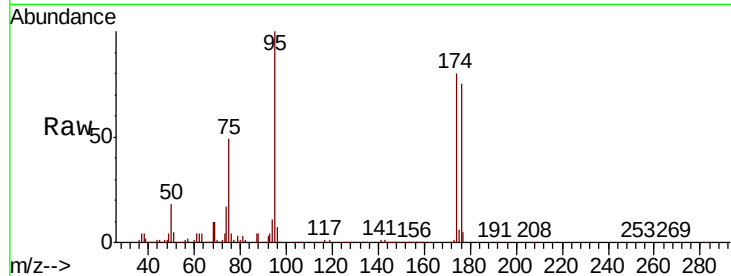
Tot Ion: 75 Resp: 114910

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

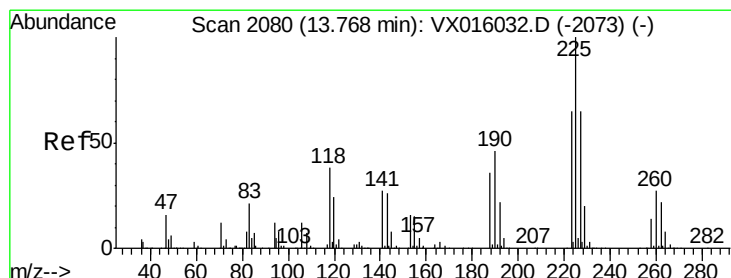
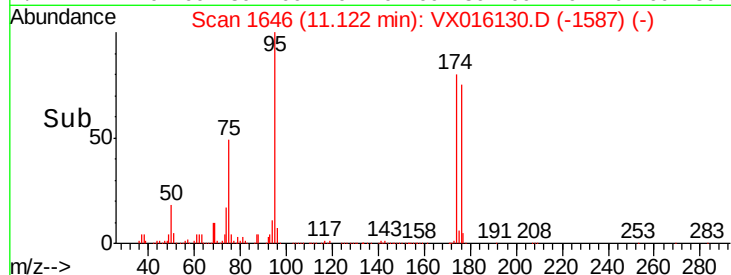
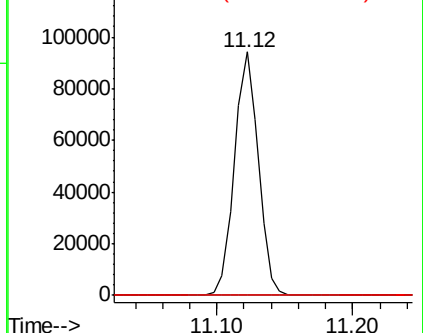
89 0.0 36.7 55.1#



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



#94

Hexachlorobutadiene

Concen: 0.547 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

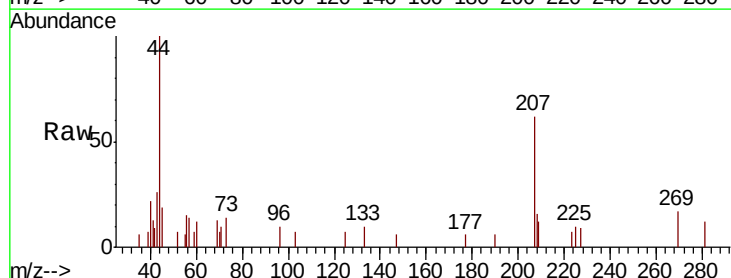
Tgt Ion: 225 Resp: 59

Ion Ratio Lower Upper

225 100

223 78.0 32.3 96.9

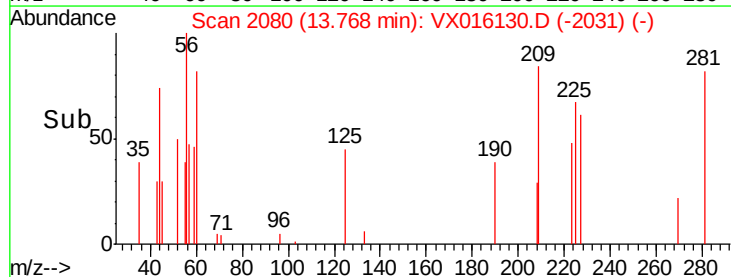
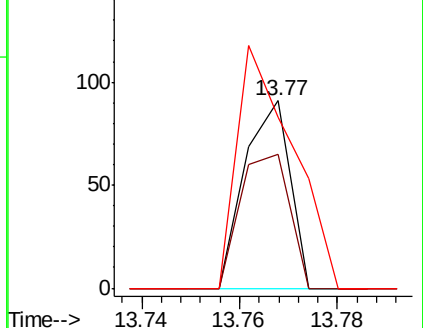
227 157.6 31.8 95.4#

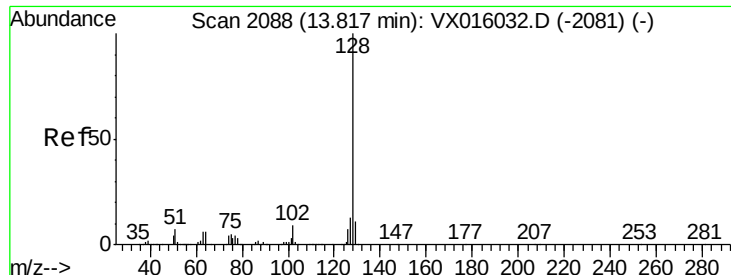


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 7.328 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016130.D

Acq: 08 May 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

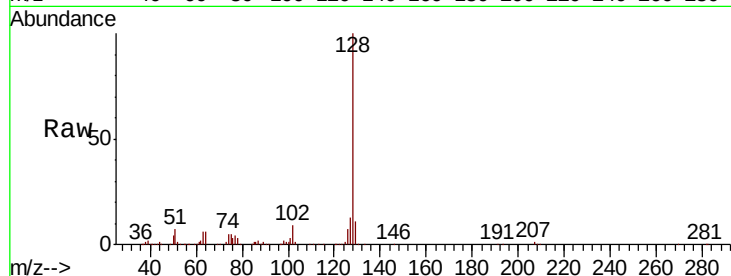
Tot Ion:128 Resp: 136012

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 10.8 8.7 13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

