

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016209.D
 Acq On : 14 May 2020 03:32
 Operator : JC/SP
 Sample : L2605-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 239992

Quant Time: May 14 04:49:42 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	278716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	464019	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	462625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	235228	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	171339	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
35) Dibromofluoromethane	5.47	113	137914	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	8.70	98	572949	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	11.12	95	228130	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	2714	2.926	ug/l	97
13) Acrolein	2.26	56	250	0.431	ug/l #	26
16) Acetone	2.42	43	17039	10.412	ug/l	99
17) Carbon Disulfide	2.56	76	1340	Below Cal	#	77
18) Methyl Acetate	2.75	43	3116	0.774	ug/l	93
20) Methylene Chloride	2.84	84	7980	2.365	ug/l	94
25) 2-Butanone	4.64	43	12059	4.573	ug/l	93
29) Tetrahydrofuran	5.10	42	1005	0.575	ug/l #	54
31) Cyclohexane	5.63	56	5373	1.055	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	20903	4.576	ug/l #	49
37) Ethyl Acetate	4.64	43	12059	2.278	ug/l #	67
38) Carbon Tetrachloride	5.63	117	26588	5.727	ug/l #	14
43) Isopropyl Acetate	6.41	43	65218	7.721	ug/l	99
48) Methyl methacrylate	7.85	41	91707	22.913	ug/l #	41
49) 1,4-Dioxane	7.85	88	161	1.677	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	59350	11.482	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	28155	4.830	ug/l #	55
57) 1,3-Dichloropropane	9.52	76	4363	0.763	ug/l #	46
59) 2-Hexanone	9.52	43	54521	13.431	ug/l #	50
74) N-amyl acetate	10.81	43	4227	0.530	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.24	83	19	2.055	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	113230	21.213	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	113230	50.551	ug/l #	13
94) Hexachlorobutadiene	13.76	225	168	0.592	ug/l #	76

(#) = 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: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

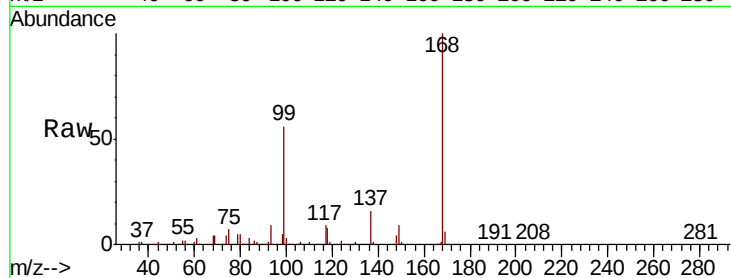
239992

Tot Ion:168 Resp: 278716

Ion Ratio Lower Upper

168 100

99 55.7 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

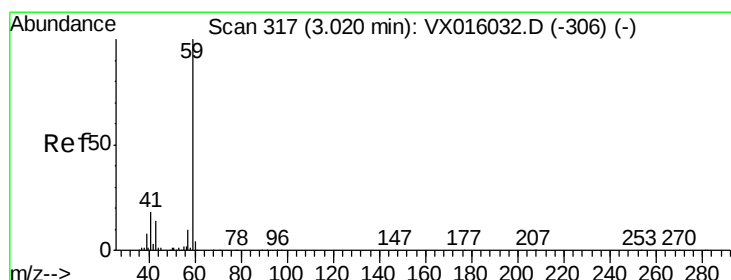
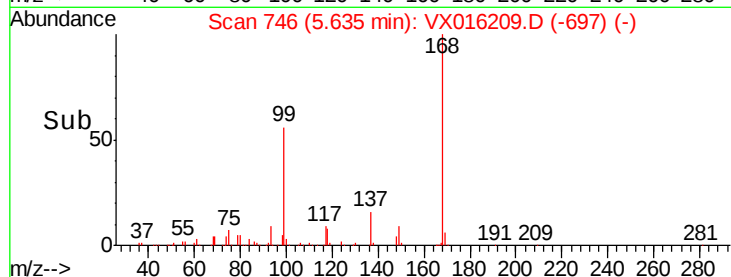
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.926 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016209.D

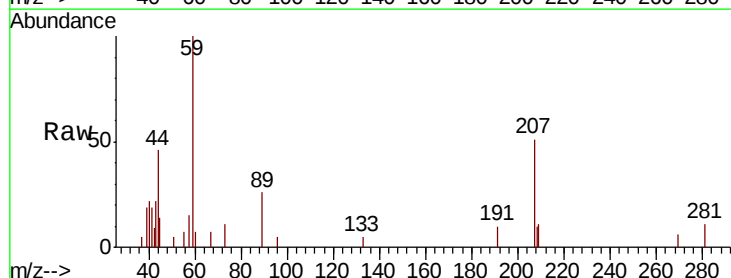
Acq: 14 May 2020 03:32

Tgt Ion: 59 Resp: 2714

Ion Ratio Lower Upper

59 100

57 9.3 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

1200

1000

800

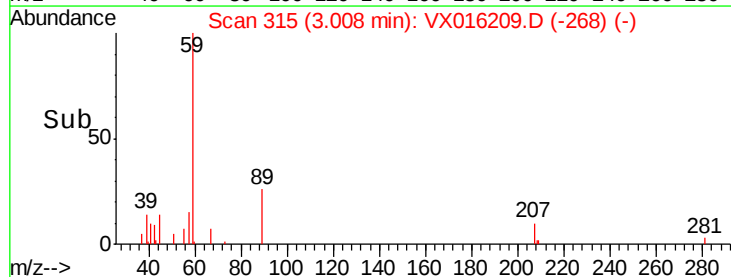
600

400

200

0

Time-->

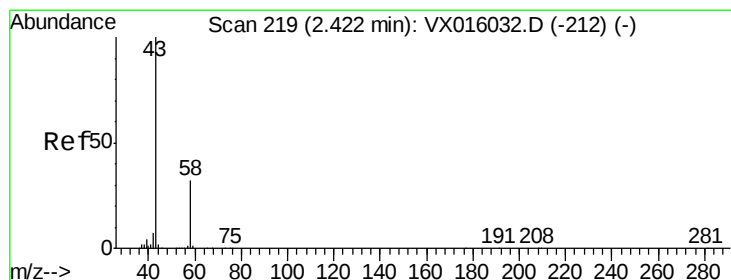
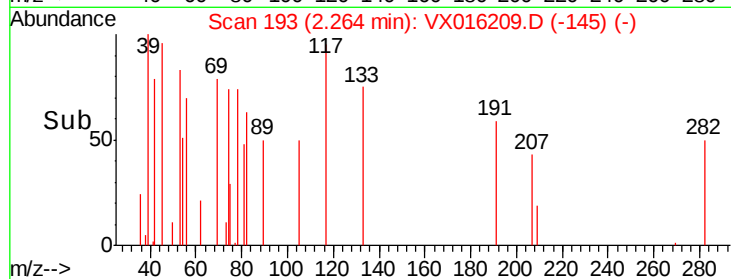
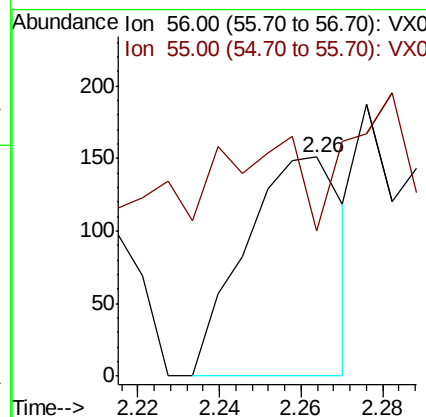
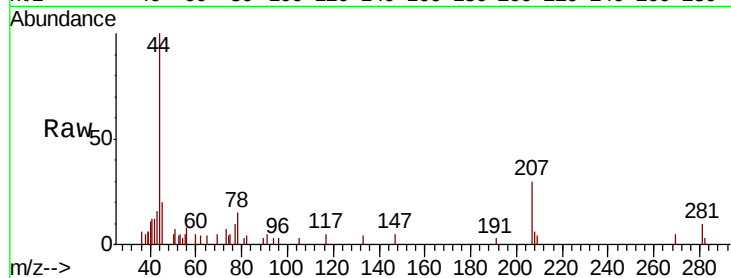




#13
Acrolein
Concen: 0.431 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

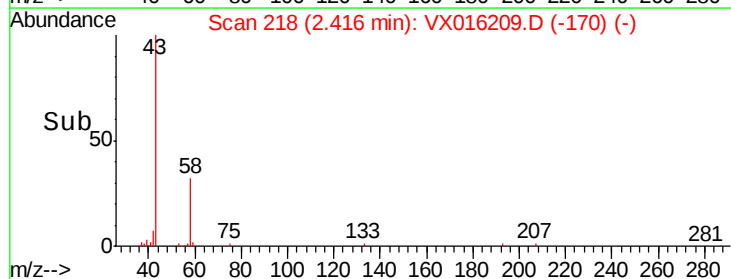
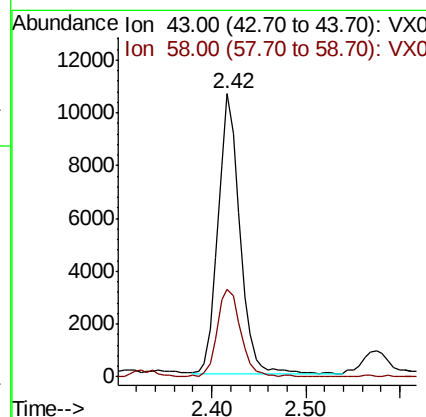
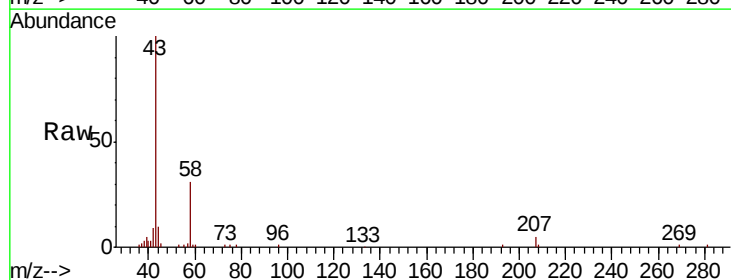
Instrument :
MSVOA_X
ClientSampled :
239992

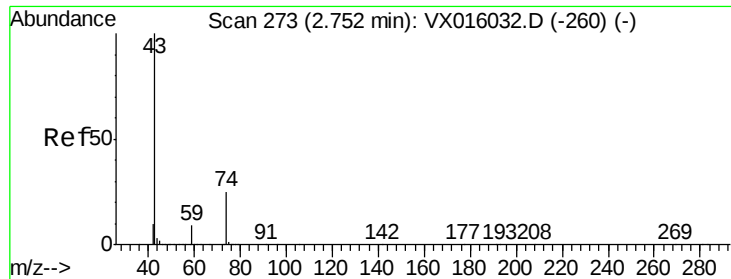
Tot Ion: 56 Resp: 250
Ion Ratio Lower Upper
56 100
55 131.2 56.5 84.7#



#16
Acetone
Concen: 10.412 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

Tgt Ion: 43 Resp: 17039
Ion Ratio Lower Upper
43 100
58 31.3 25.4 38.0

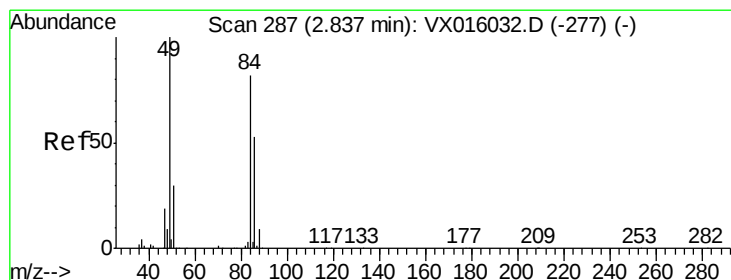
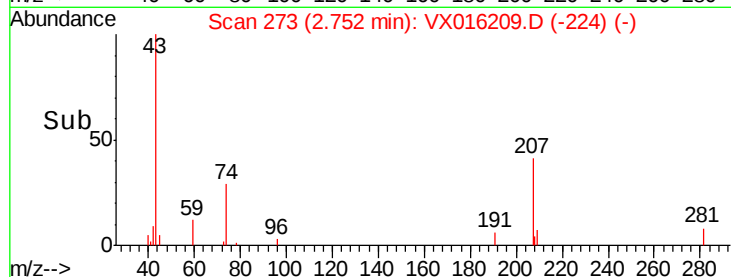
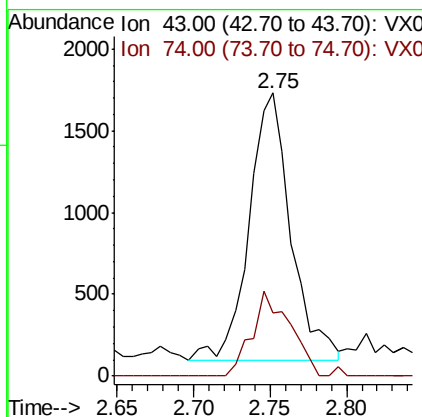
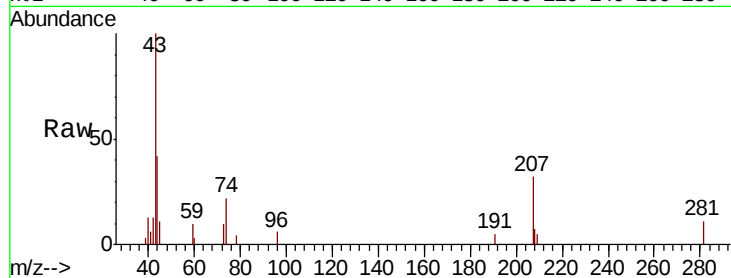




#18
Methvl Acetate
Concen: 0.774 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

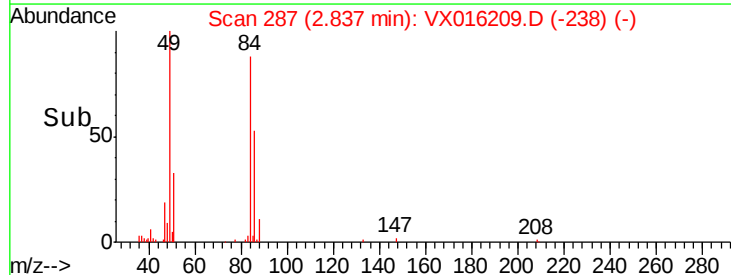
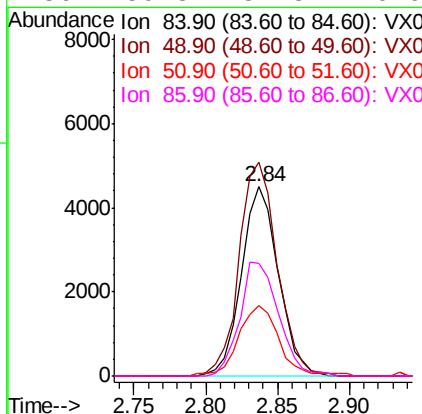
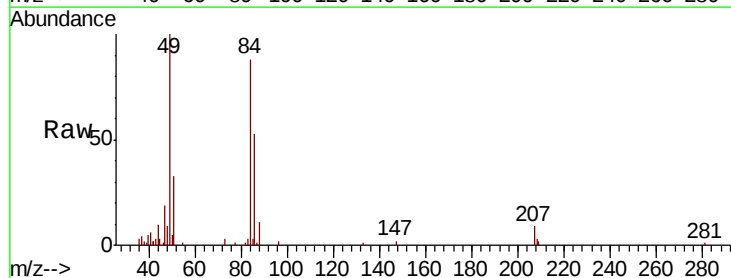
Instrument :
MSVOA_X
ClientSampleId :
239992

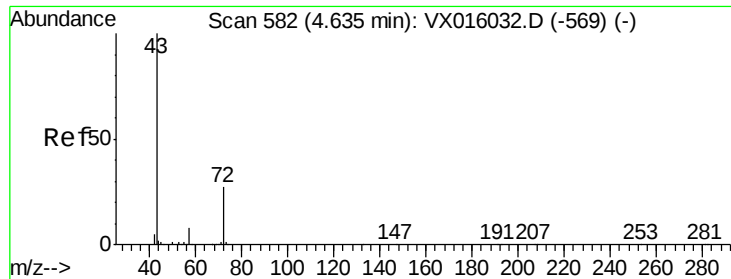
Tot Ion: 43 Resp: 3116
Ion Ratio Lower Upper
43 100
74 28.8 20.2 30.2



#20
Methylene Chloride
Concen: 2.365 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

Tgt Ion: 84 Resp: 7980
Ion Ratio Lower Upper
84 100
49 113.1 97.3 145.9
51 37.1 29.3 43.9
86 59.8 51.3 76.9





#25

2-Butanone

Concen: 4.573 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

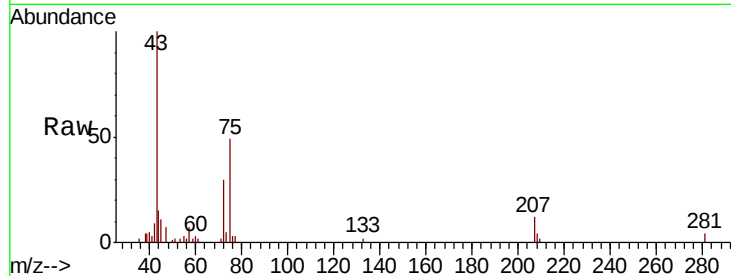
239992

Tot Ion: 43 Resp: 12059

Ion Ratio Lower Upper

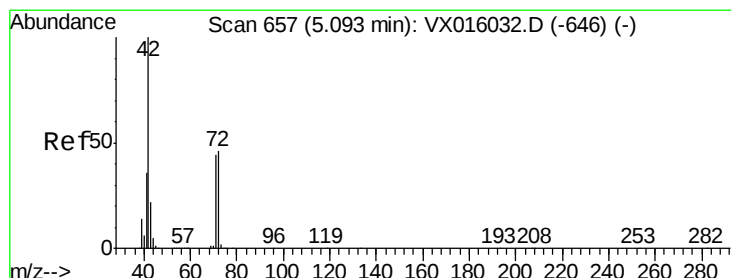
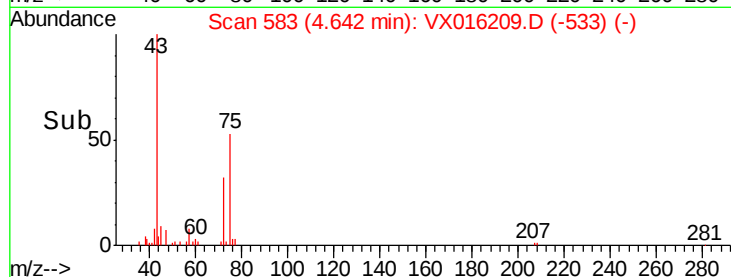
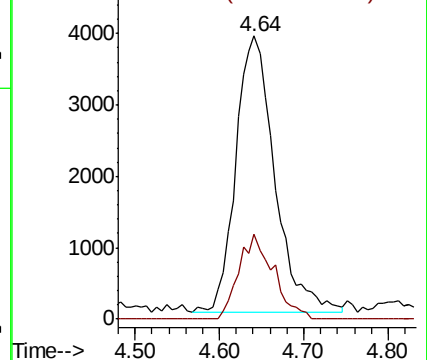
43 100

72 31.0 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.575 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

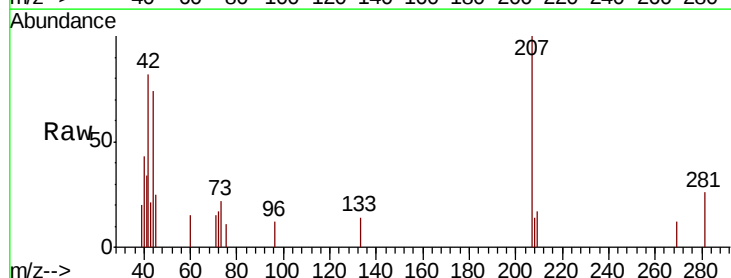
Tgt Ion: 42 Resp: 1005

Ion Ratio Lower Upper

42 100

72 0.0 37.1 55.7#

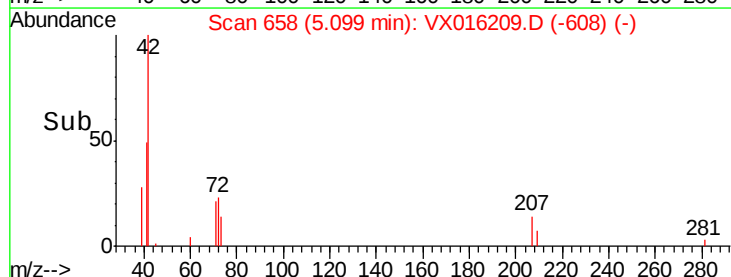
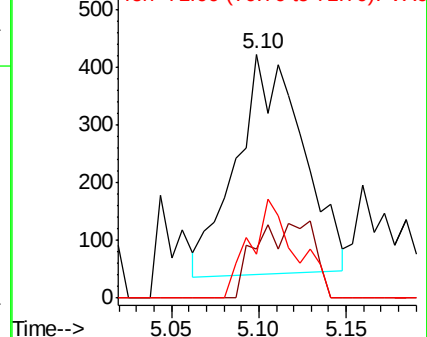
71 30.7 34.5 51.7#

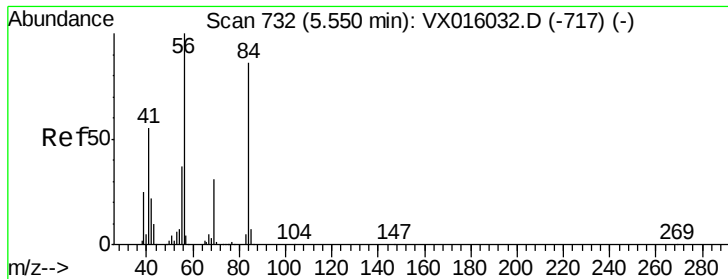


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.055 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

239992

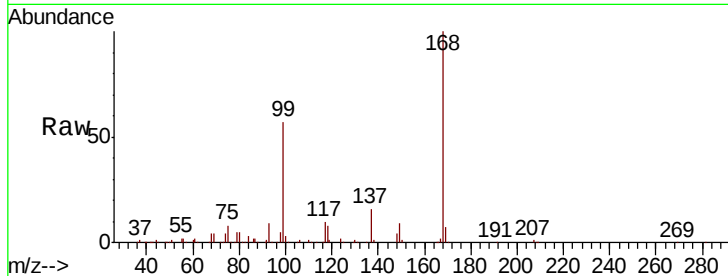
Tot Ion: 56 Resp: 5373

Ion Ratio Lower Upper

56 100

69 171.6 25.0 37.6#

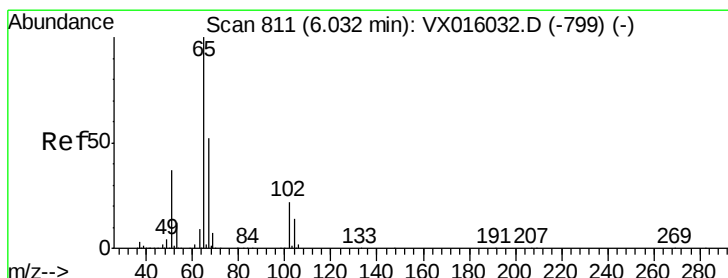
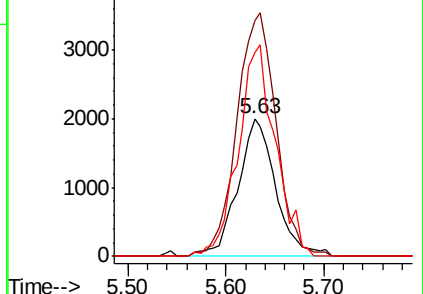
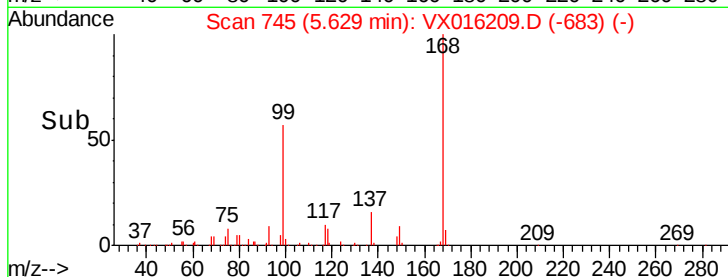
84 147.9 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.717 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016209.D

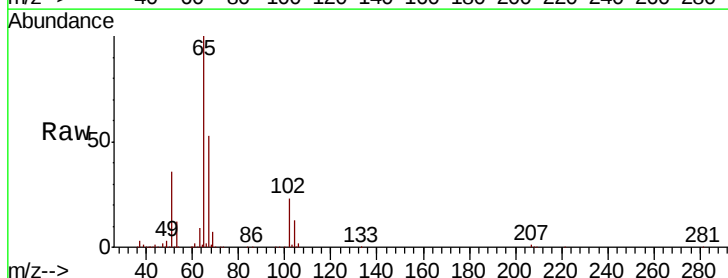
Acq: 14 May 2020 03:32

Tgt Ion: 65 Resp: 171339

Ion Ratio Lower Upper

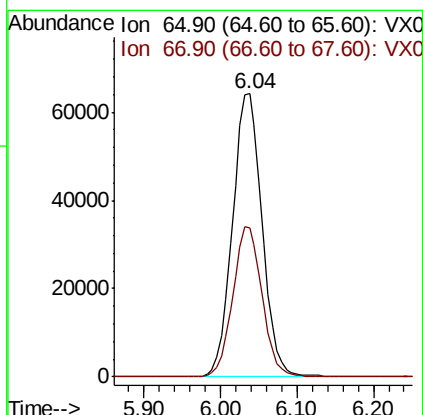
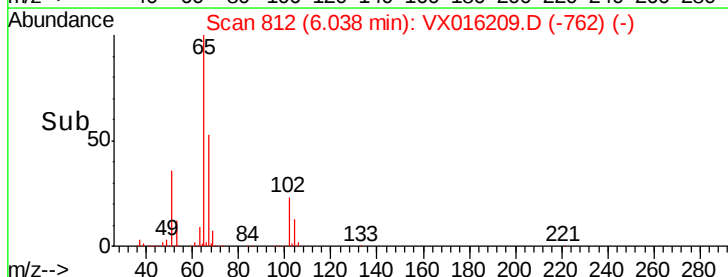
65 100

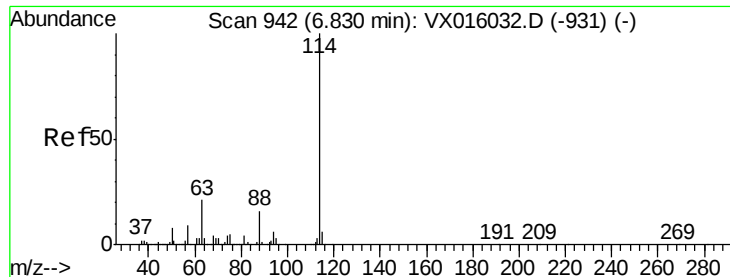
67 52.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

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239992

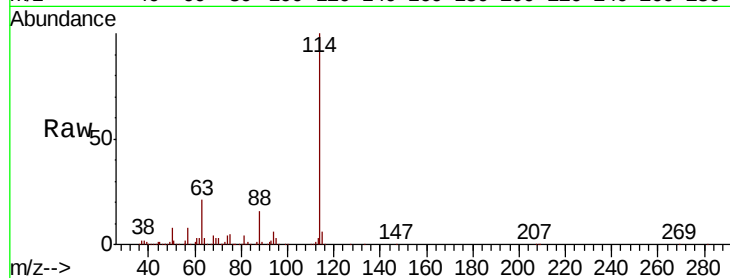
Tot Ion:114 Resp: 464019

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

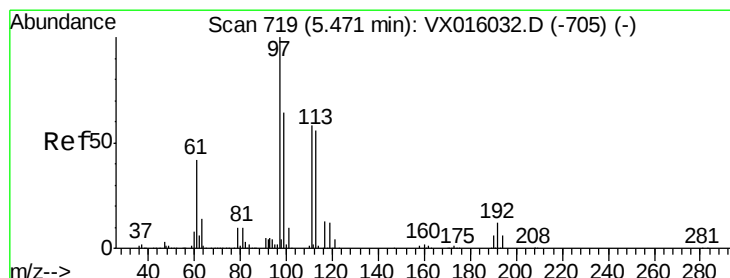
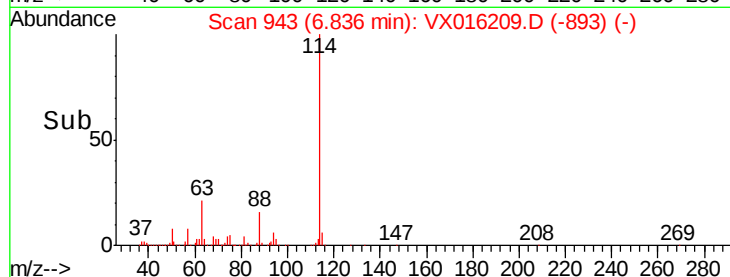
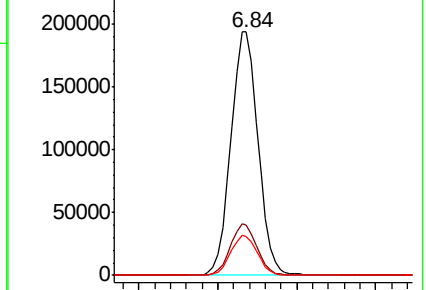
88 16.0 0.0 31.4



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: 46.913 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

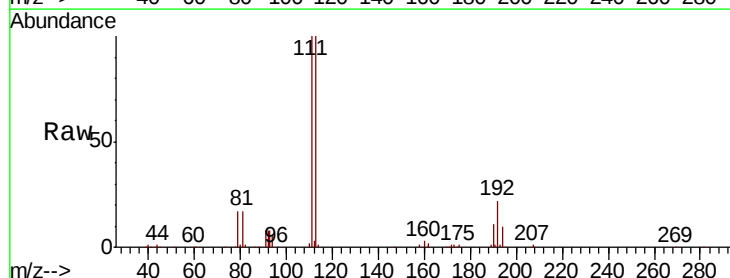
Tgt Ion:113 Resp: 137914

Ion Ratio Lower Upper

113 100

111 103.3 81.6 122.4

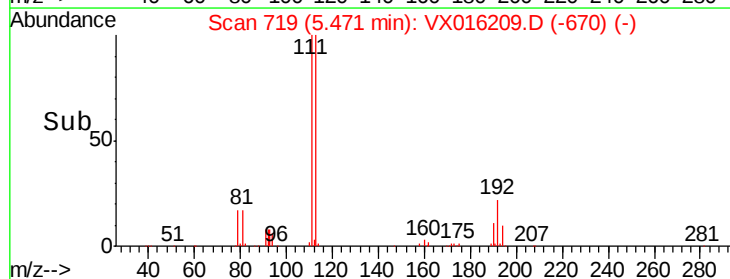
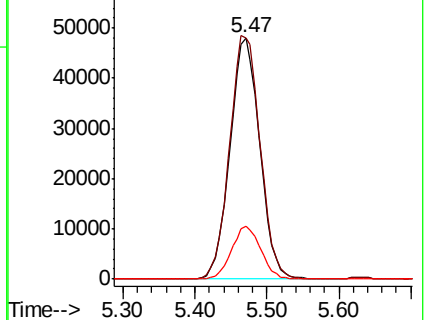
192 21.5 17.0 25.4

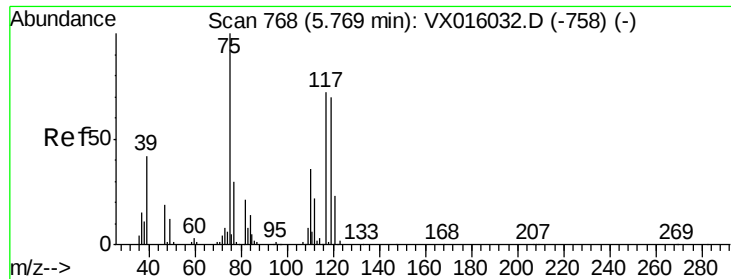


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.576 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :
MSVOA_X
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239992

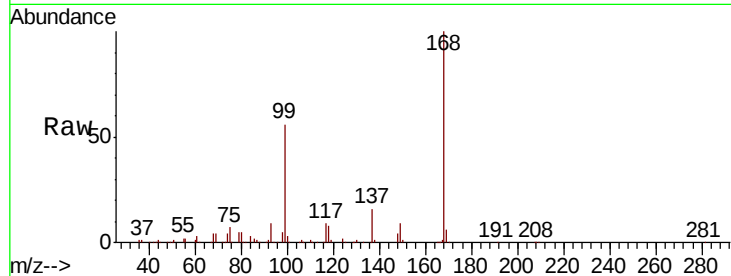
Tot Ion: 75 Resp: 20903

Ion Ratio Lower Upper

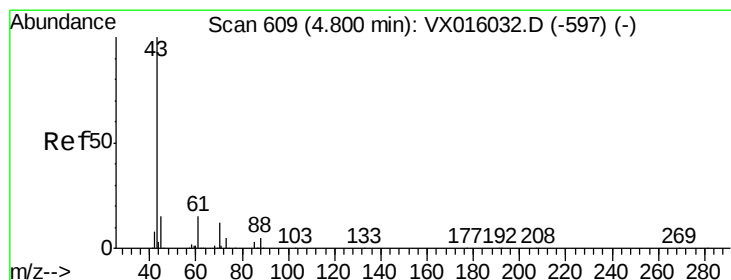
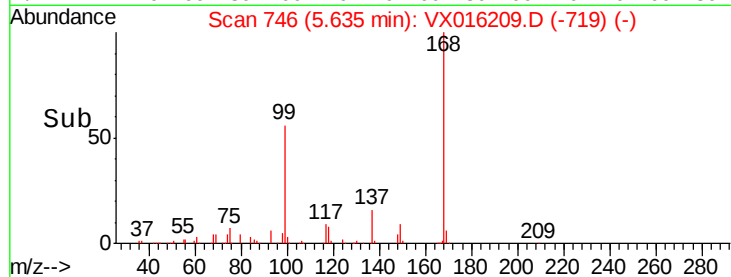
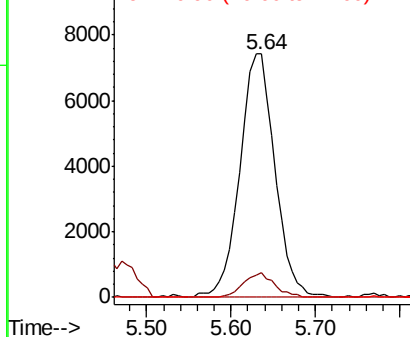
75 100

110 8.9 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: 2.278 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

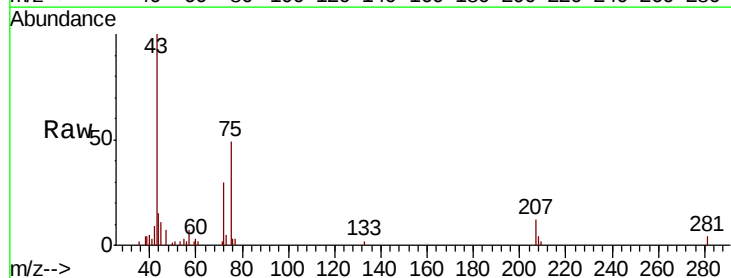
Tgt Ion: 43 Resp: 12059

Ion Ratio Lower Upper

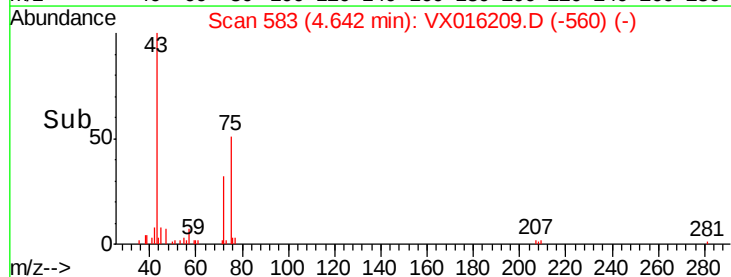
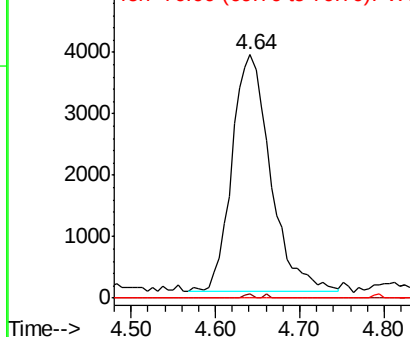
43 100

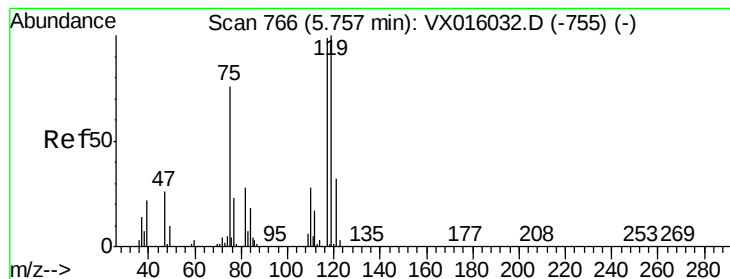
61 0.4 11.7 17.5#

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: 5.727 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

239992

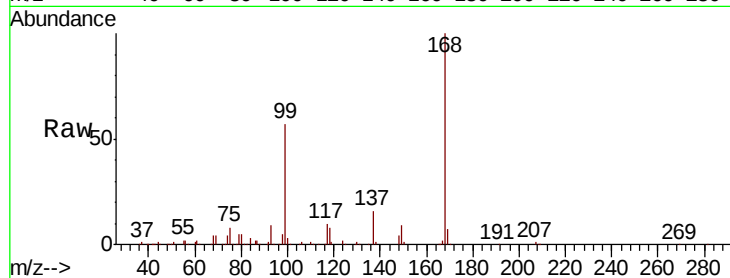
Tot Ion:117 Resp: 26588

Ion Ratio Lower Upper

117 100

119 5.7 80.3 120.5#

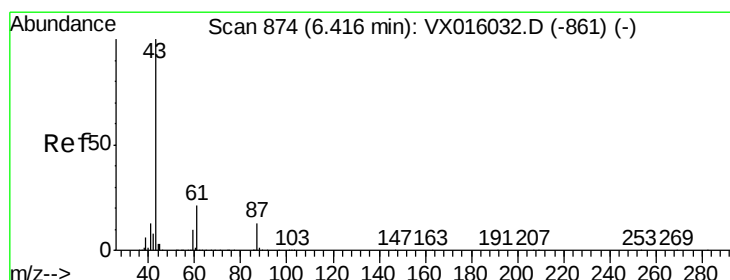
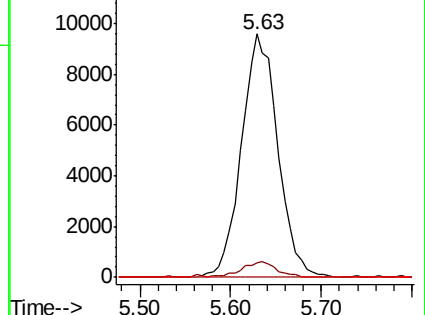
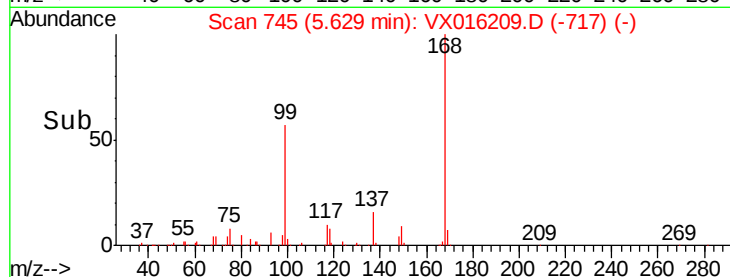
121 0.0 25.7 38.5#



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: 7.721 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

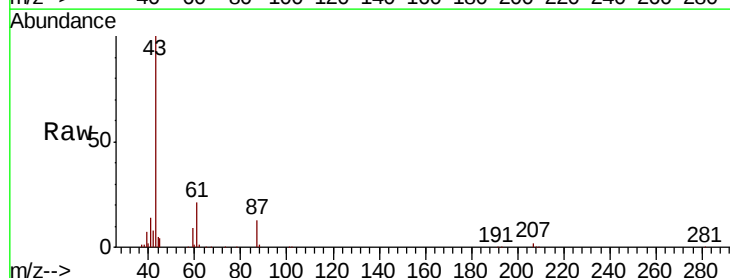
Tgt Ion: 43 Resp: 65218

Ion Ratio Lower Upper

43 100

61 21.5 17.0 25.4

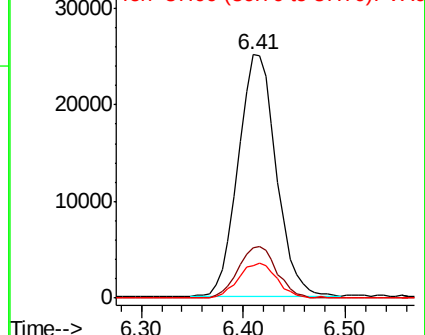
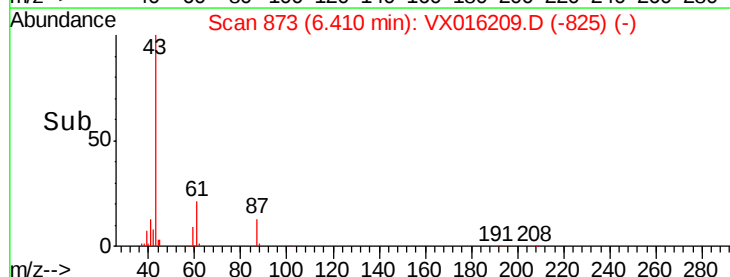
87 14.5 11.0 16.6

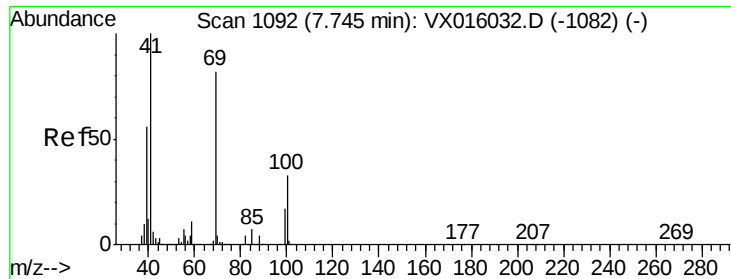


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

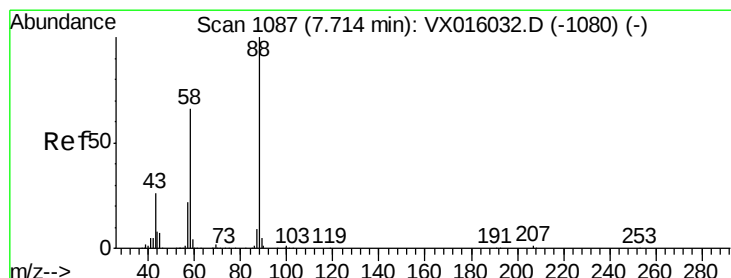
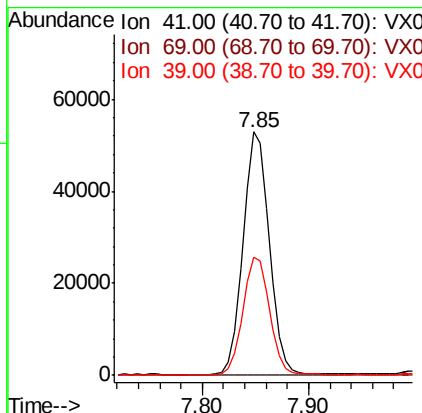
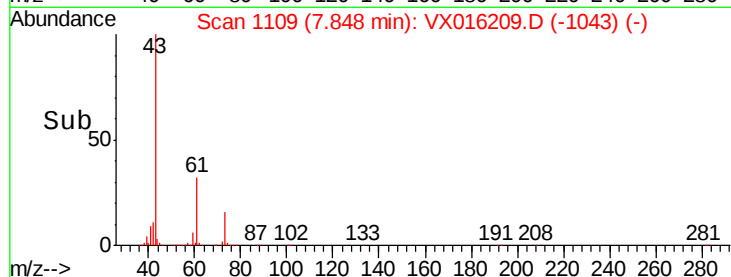
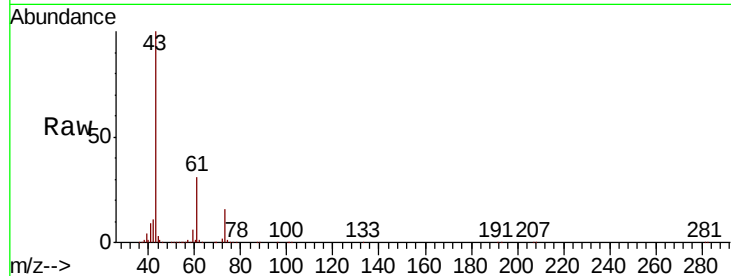




#48
Methvl methacrylate
Concen: 22.913 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

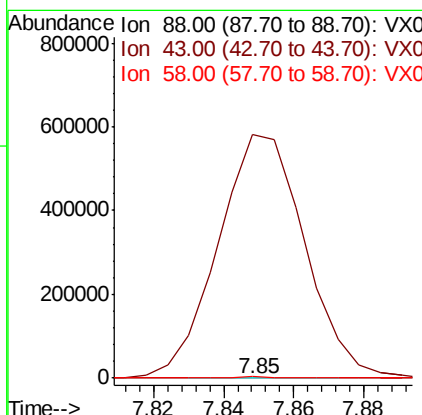
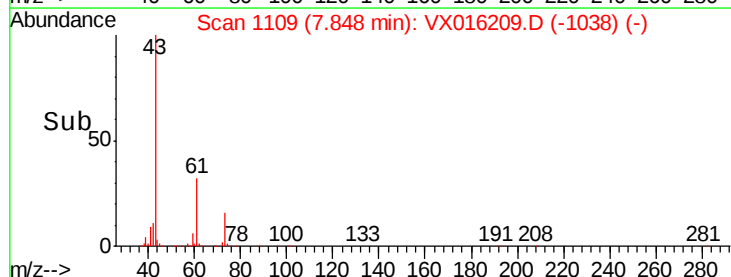
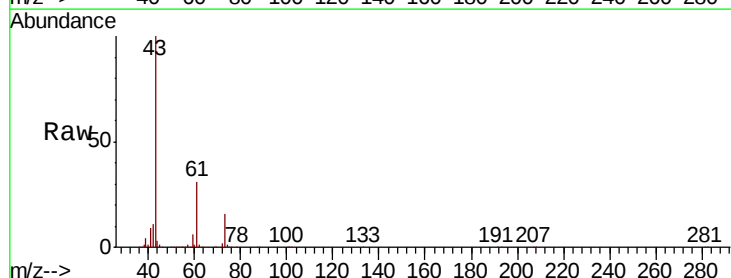
Instrument :
MSVOA_X
ClientSampleId :
239992

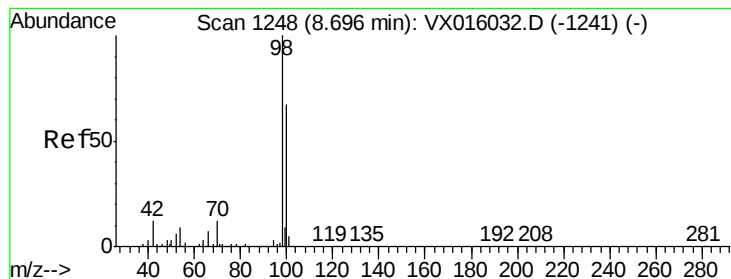
Tot Ion: 41 Resp: 91707
Ion Ratio Lower Upper
41 100
69 0.2 67.8 101.6#
39 50.0 44.6 67.0



#49
1,4-Dioxane
Concen: 1.677 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.13 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

Tgt Ion: 88 Resp: 161
Ion Ratio Lower Upper
88 100
43 629406.2 25.3 37.9#
58 2814.3 55.9 83.9#





#50

Toluene-d8

Concen: 50.582 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

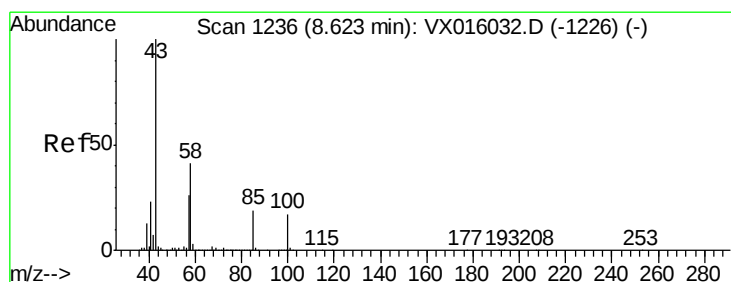
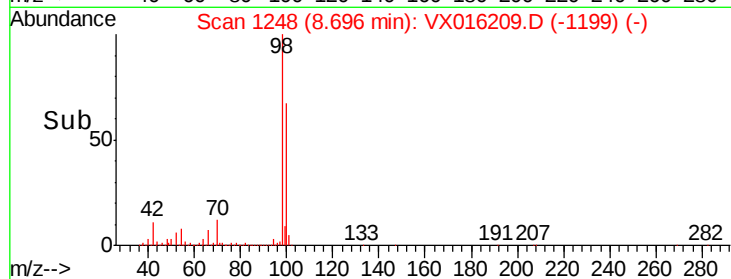
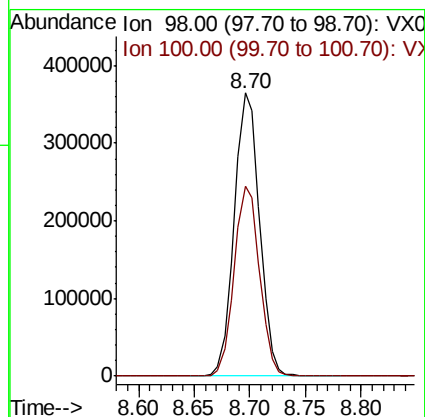
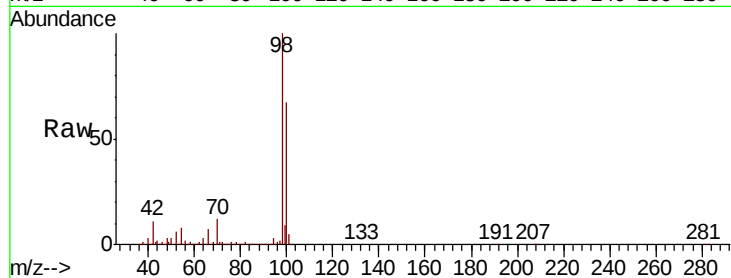
239992

Tot Ion: 98 Resp: 572949

Ion Ratio Lower Upper

98 100

100 67.2 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 11.482 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016209.D

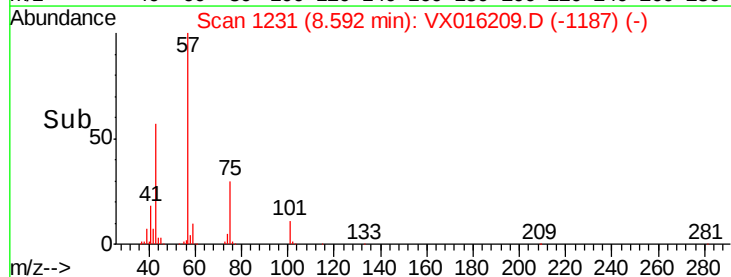
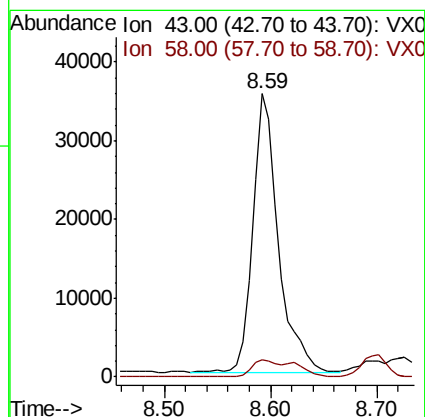
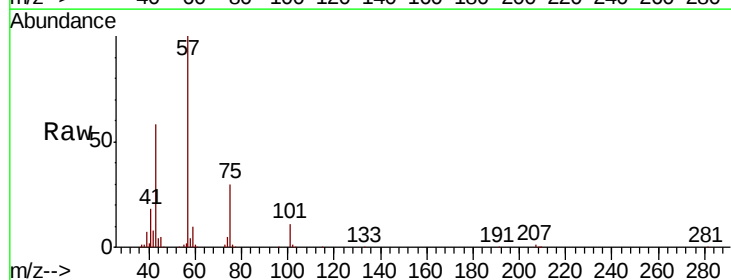
Acq: 14 May 2020 03:32

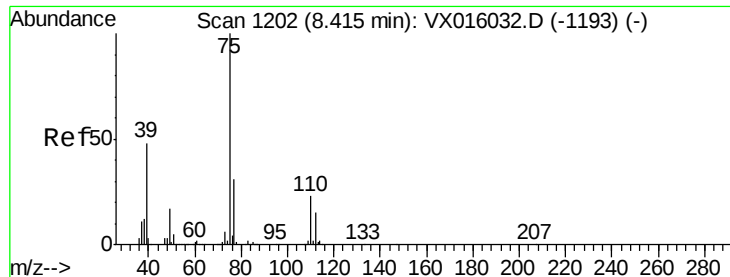
Tgt Ion: 43 Resp: 59350

Ion Ratio Lower Upper

43 100

58 6.5 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.830 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

239992

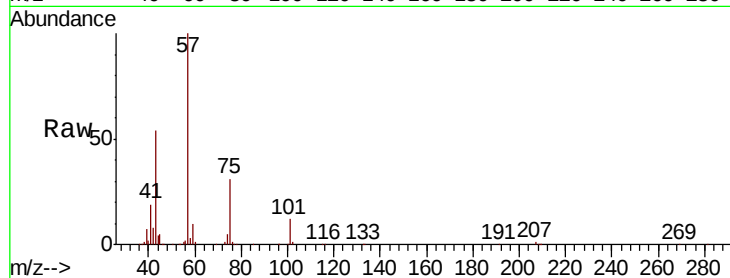
Tot Ion: 75 Resp: 28155

Ion Ratio Lower Upper

75 100

77 0.5 24.7 37.1#

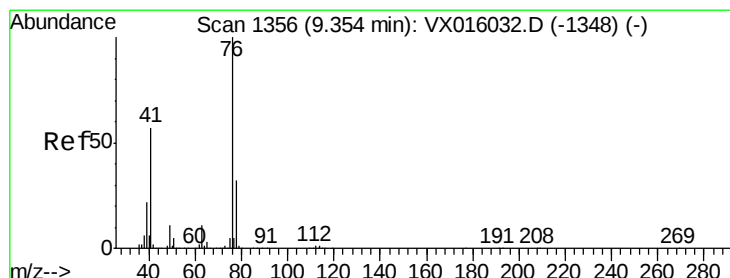
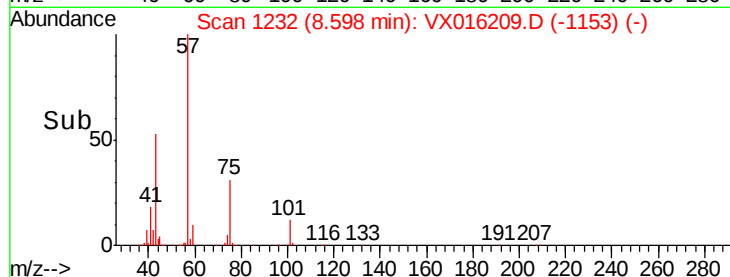
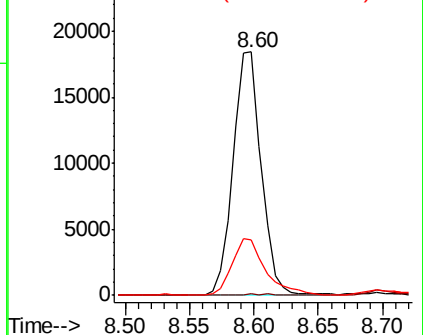
39 22.3 38.7 58.1#



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-Dichloropropane

Concen: 0.763 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016209.D

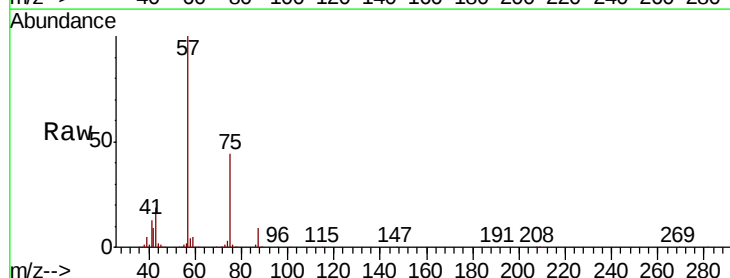
Acq: 14 May 2020 03:32

Tgt Ion: 76 Resp: 4363

Ion Ratio Lower Upper

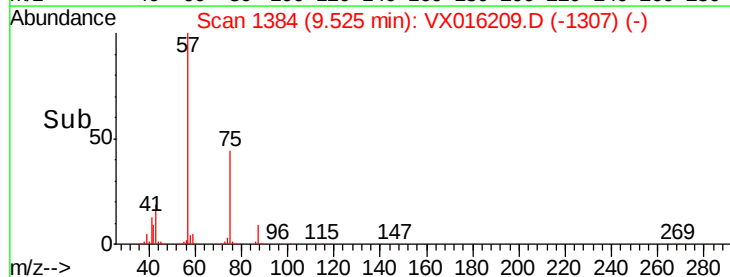
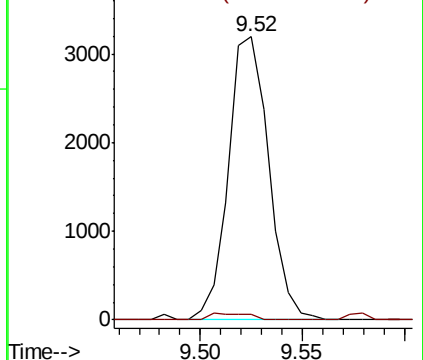
76 100

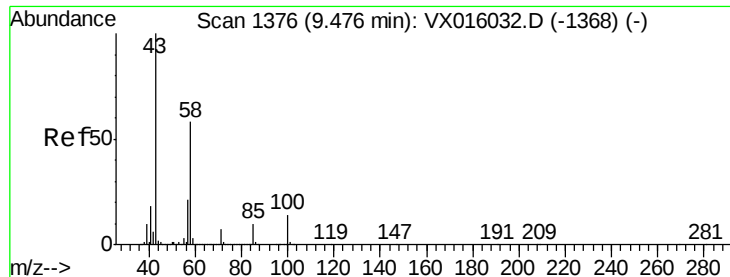
78 2.1 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

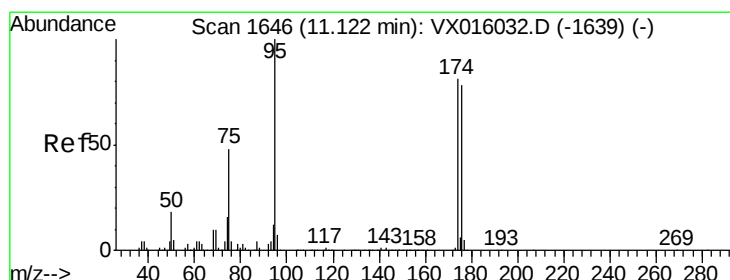
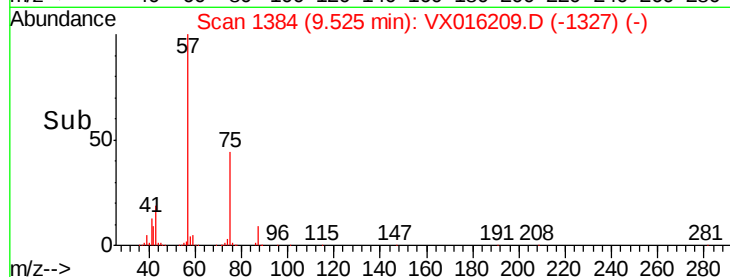
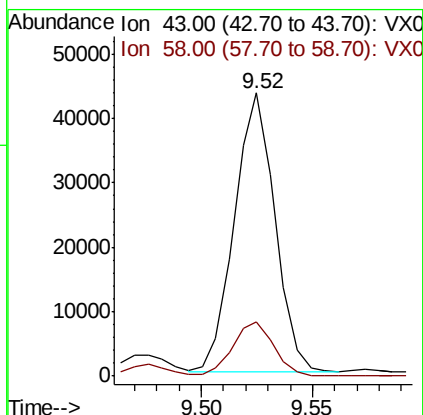
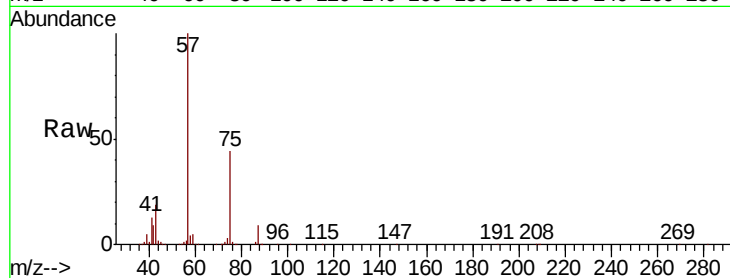




#59
2-Hexanone
Concen: 13.431 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

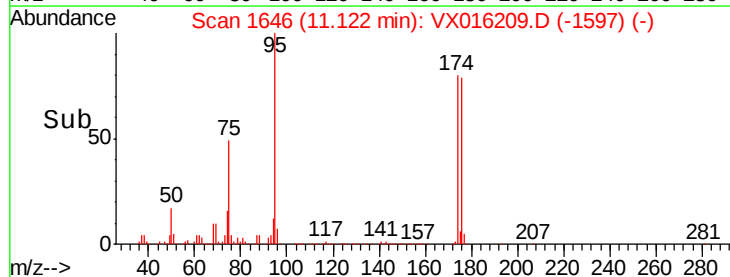
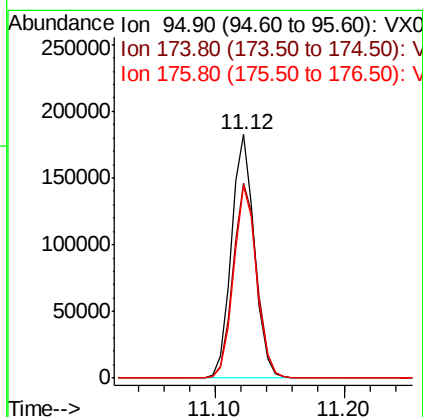
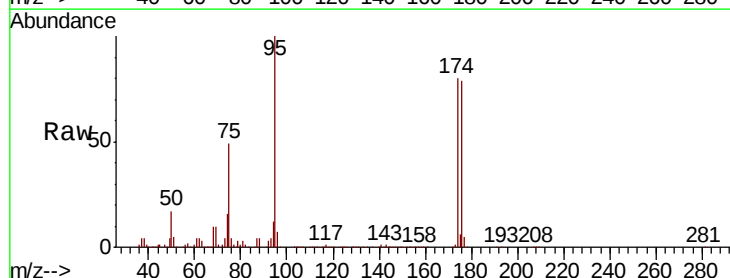
Instrument :
MSVOA_X
ClientSampleId :
239992

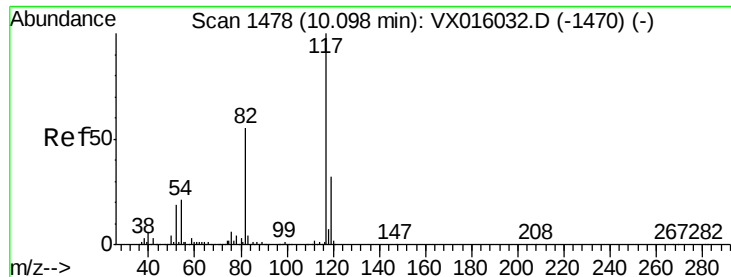
Tot Ion: 43 Resp: 54521
Ion Ratio Lower Upper
43 100
58 20.2 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 52.951 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

Tgt Ion: 95 Resp: 228130
Ion Ratio Lower Upper
95 100
174 82.6 0.0 159.4
176 78.8 0.0 157.6

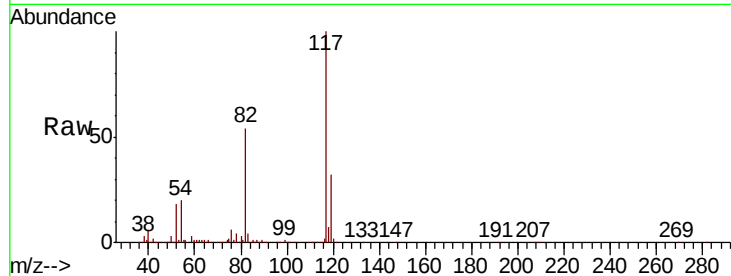




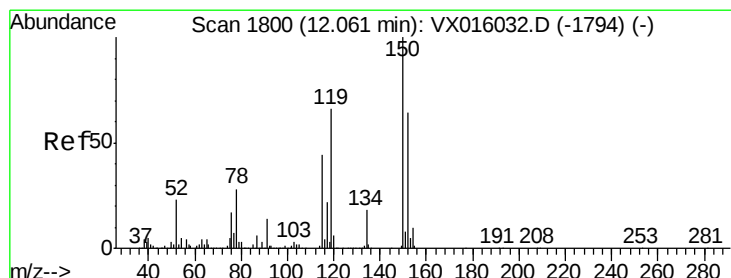
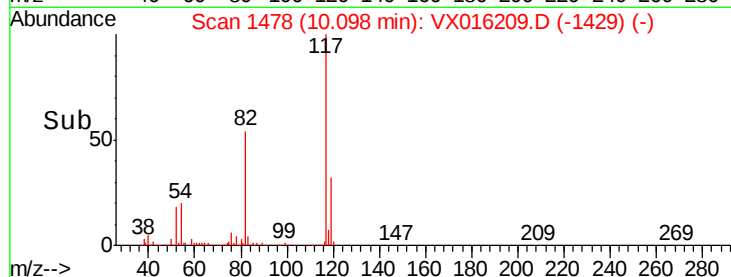
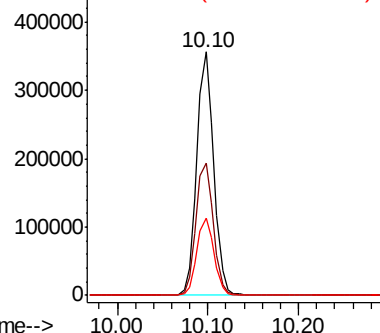
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

Instrument :
MSVOA_X
ClientSampleId :
239992

Tot Ion:117 Resp: 462625
Ion Ratio Lower Upper
117 100
82 54.3 44.4 66.6
119 31.6 25.5 38.3

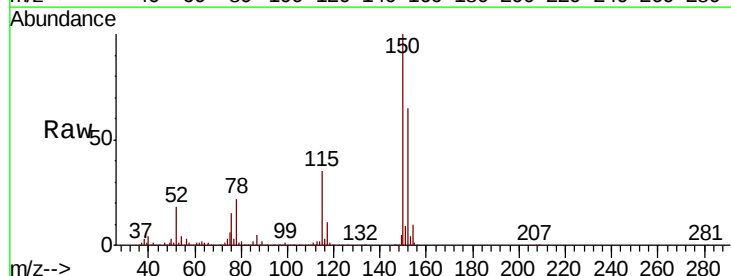


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

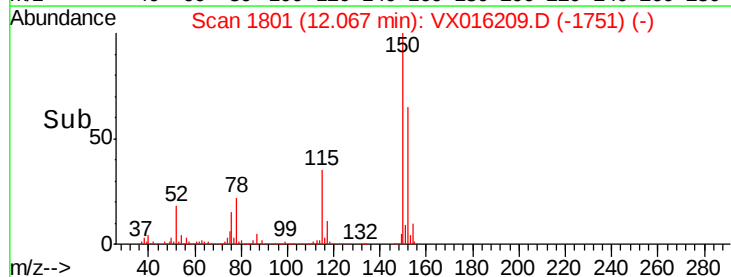
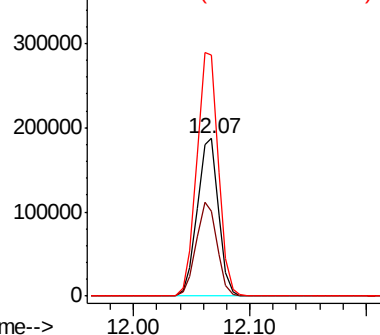


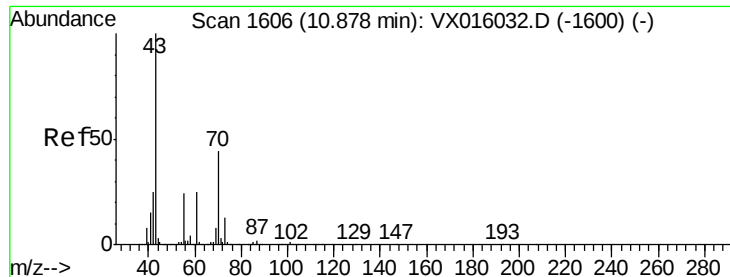
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016209.D
Acq: 14 May 2020 03:32

Tgt Ion:152 Resp: 235228
Ion Ratio Lower Upper
152 100
115 58.6 41.3 124.1
150 157.3 0.0 352.2



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





#74

N-amvl acetate

Concen: 0.530 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

239992

Tot Ion: 43 Resp: 4227

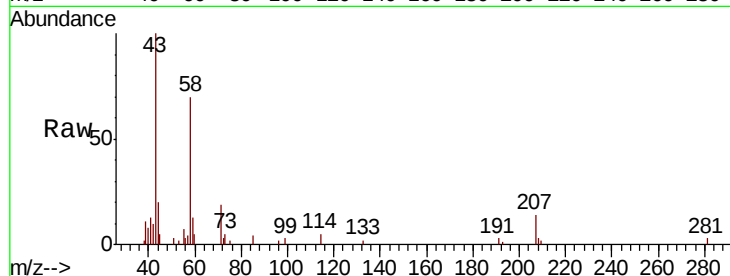
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 10.7 19.7 29.5#

61 0.0 20.9 31.3#

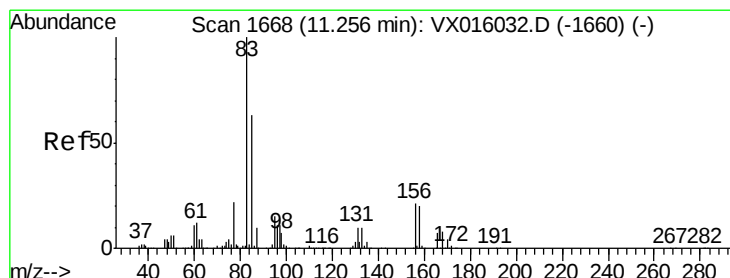
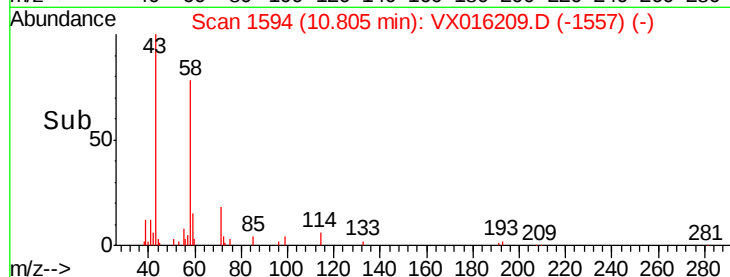
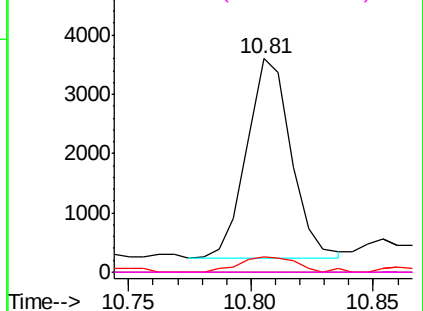


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.055 ug/l

RT: 11.24 min Scan# 1666

Delta R.T. -0.01 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

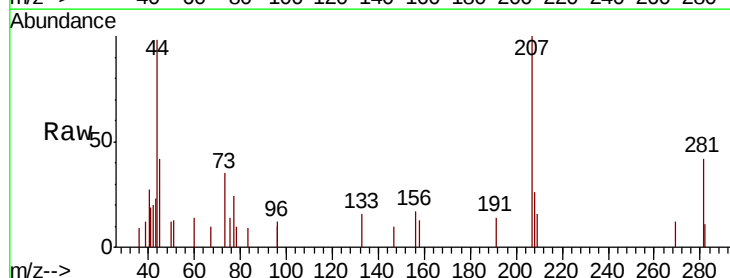
Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

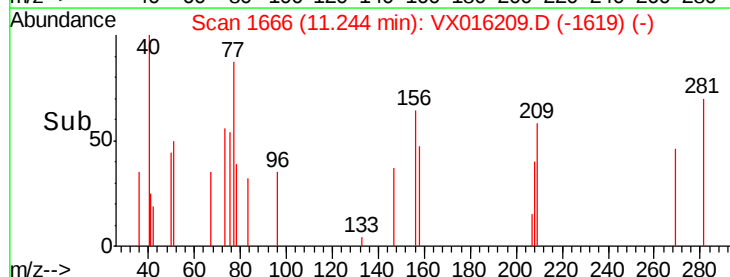
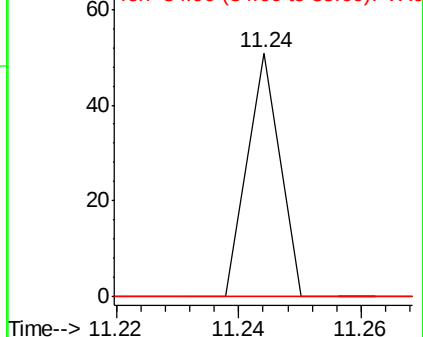
85 0.0 32.0 96.0#

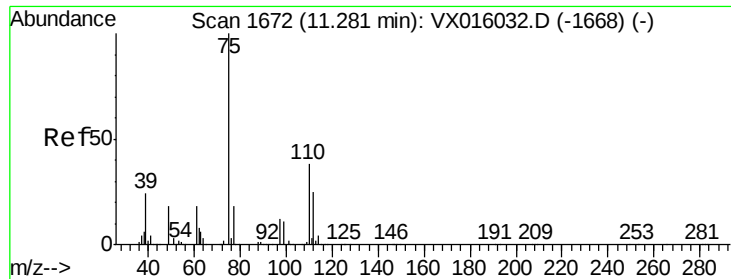


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

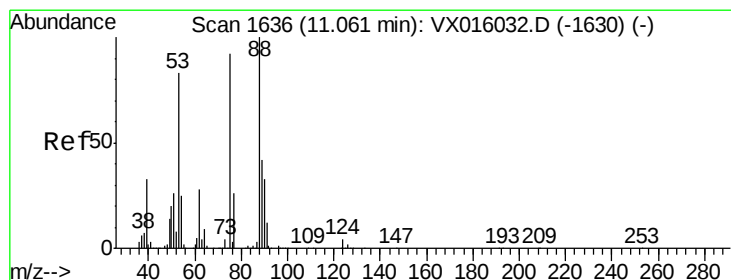
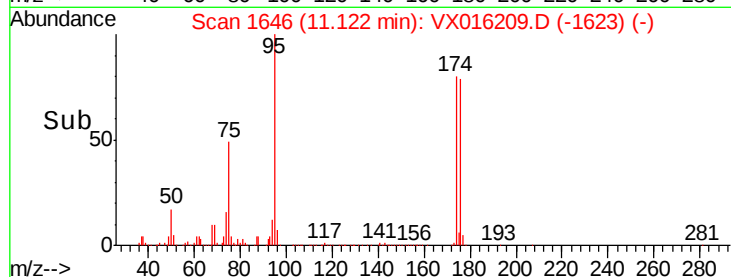
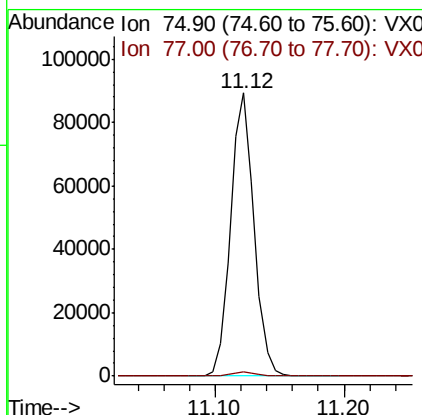
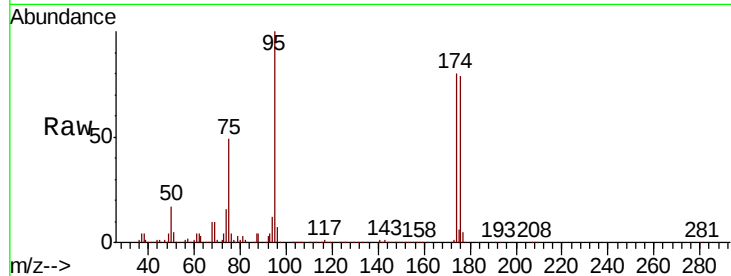




#76
 1,2,3-Trichloropropane
 Concen: 21.213 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016209.D
 Acq: 14 May 2020 03:32

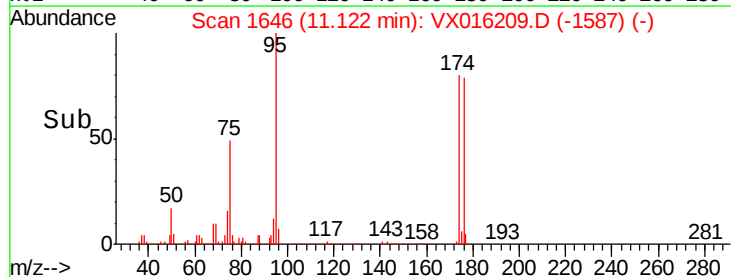
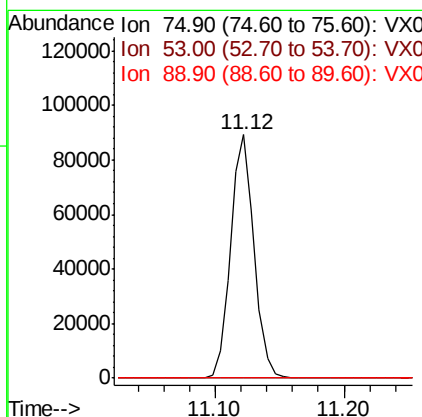
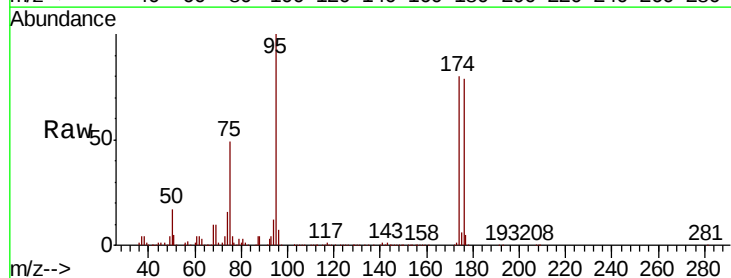
Instrument :
 MSVOA_X
 ClientSampled :
 239992

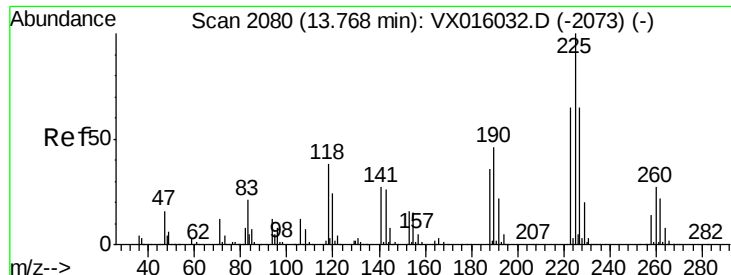
Tot Ion: 75 Resp: 113230
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 50.551 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016209.D
 Acq: 14 May 2020 03:32

Tgt Ion: 75 Resp: 113230
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.592 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016209.D

Acq: 14 May 2020 03:32

Instrument :

MSVOA_X

ClientSampleId :

239992

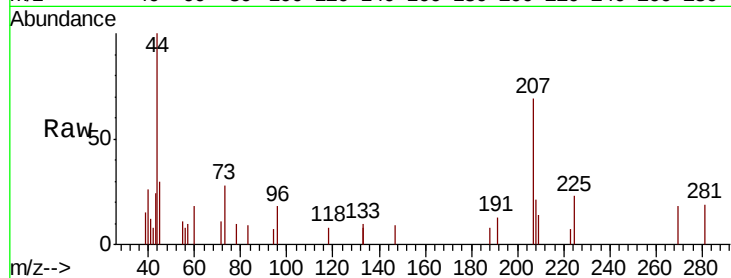
Tot Ion:225 Resp: 168

Ion Ratio Lower Upper

225 100

223 62.5 32.3 96.9

227 28.6 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

