

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016134.D
 Acq On : 08 May 2020 20:13
 Operator : JC/SP
 Sample : L2557-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

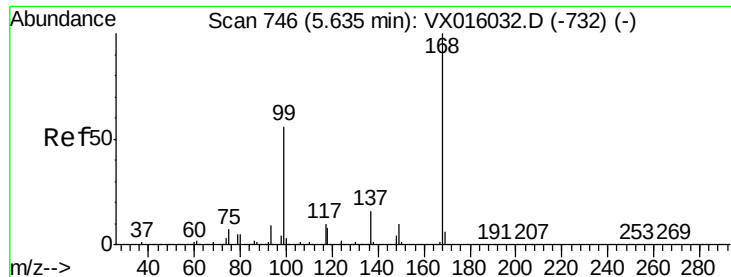
Quant Time: May 09 01:53:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	280582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	470273	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	459440	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	238447	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	175471	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
35) Dibromofluoromethane	5.47	113	139961	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
50) Toluene-d8	8.70	98	584971	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.12	95	236376	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1929	2.066	ug/l #	87
13) Acrolein	2.28	56	276	0.472	ug/l #	65
16) Acetone	2.42	43	27853	16.907	ug/l	98
17) Carbon Disulfide	2.55	76	1792	Below Cal	#	91
18) Methyl Acetate	2.75	43	3868	0.955	ug/l	99
20) Methylene Chloride	2.84	84	11562	3.404	ug/l	94
25) 2-Butanone	4.64	43	7263	2.736	ug/l	94
29) Tetrahydrofuran	5.10	42	2326	1.322	ug/l	95
31) Cyclohexane	5.64	56	5658	1.103	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	21288	4.599	ug/l #	49
38) Carbon Tetrachloride	5.64	117	27694	5.886	ug/l #	14
43) Isopropyl Acetate	6.42	43	84520	9.873	ug/l	99
48) Methyl methacrylate	7.65	41	5441	1.341	ug/l #	14
49) 1,4-Dioxane	7.71	88	25	0.257	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	79825	15.238	ug/l #	43
54) cis-1,3-Dichloropropene	8.60	75	36010	6.096	ug/l #	57
56) Ethyl methacrylate	9.29	69	1112	0.205	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6630	1.144	ug/l #	47
59) 2-Hexanone	9.52	43	82522	20.059	ug/l #	49
74) N-amyl acetate	10.80	43	4313	0.533	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.12	83	184	2.106	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	117229	21.665	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	117229	51.630	ug/l #	13
94) Hexachlorobutadiene	13.77	225	96	0.562	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

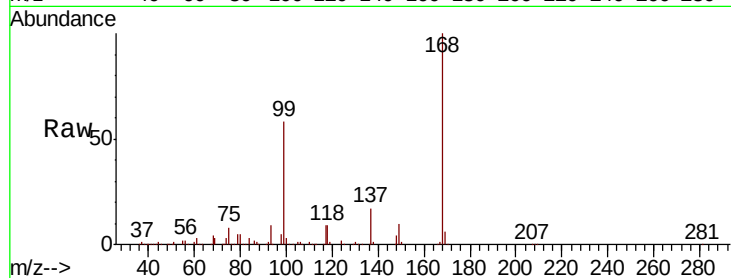
ClientSampled :

Tot Ion:168 Resp: 280582

Ion Ratio Lower Upper

168 100

99 58.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

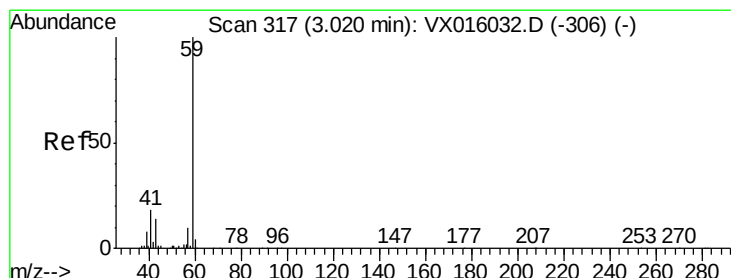
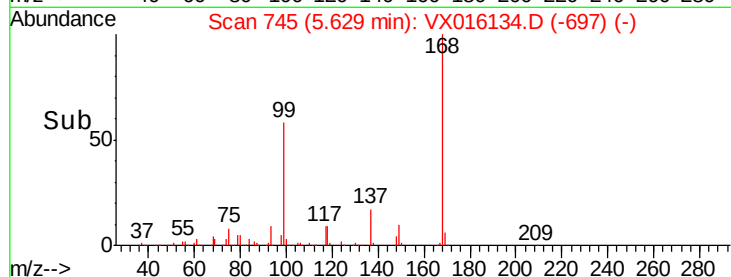
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.066 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016134.D

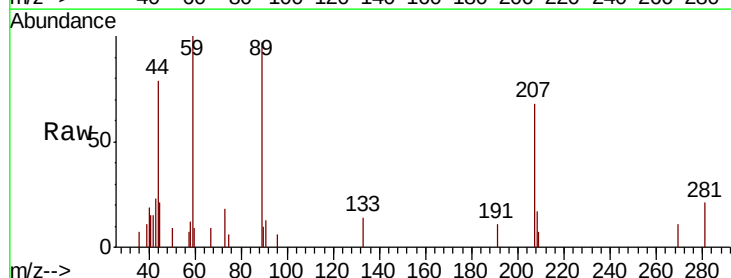
Acq: 08 May 2020 20:13

Tgt Ion: 59 Resp: 1929

Ion Ratio Lower Upper

59 100

57 5.6 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

800

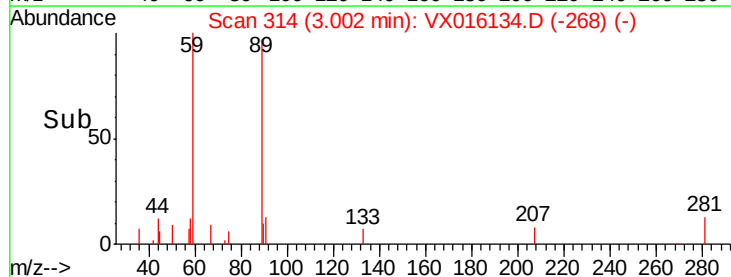
600

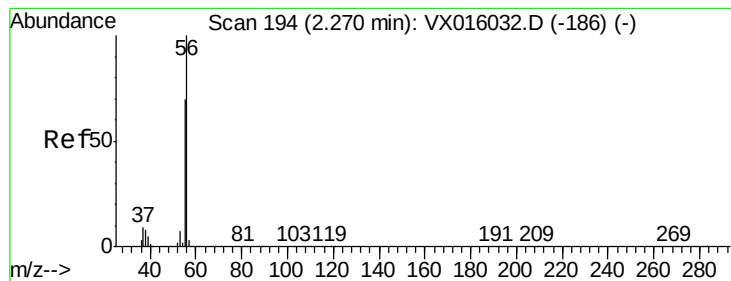
400

200

0

Time-->





#13

Acrolein

Concen: 0.472 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

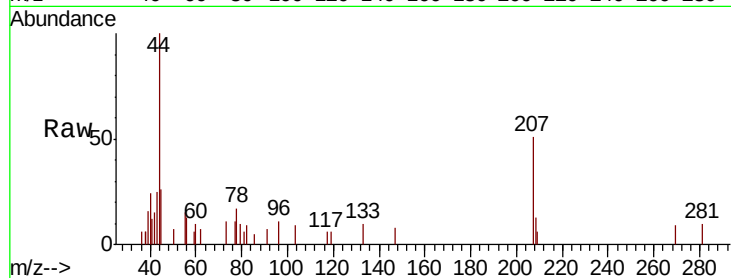
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 276

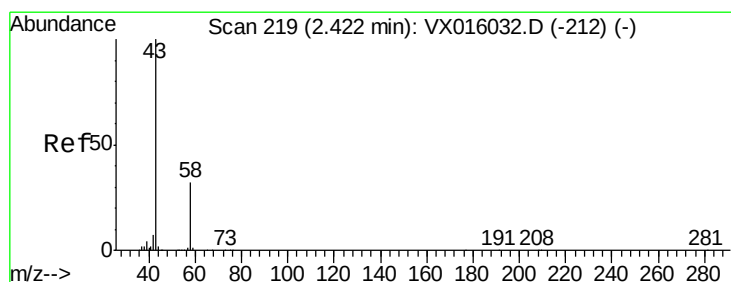
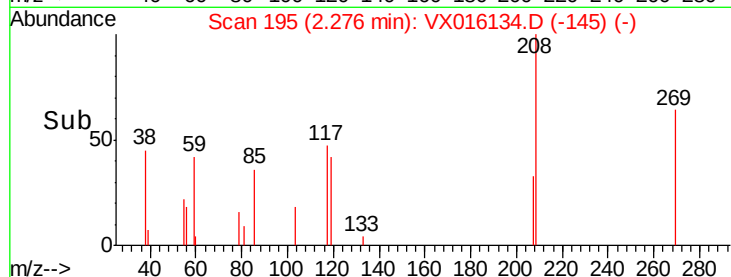
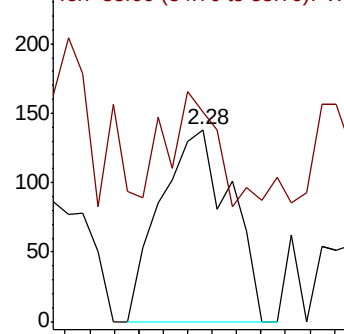
Ion Ratio Lower Upper

56 100

55 41.7 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 16.907 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016134.D

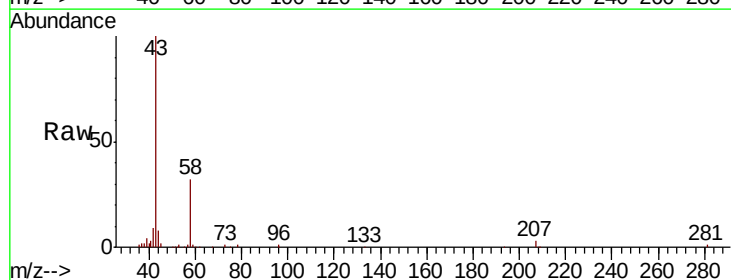
Acq: 08 May 2020 20:13

Tgt Ion: 43 Resp: 27853

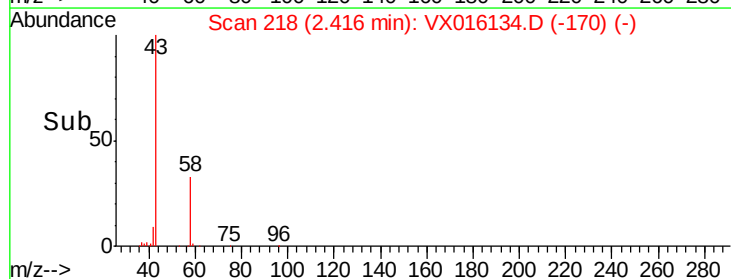
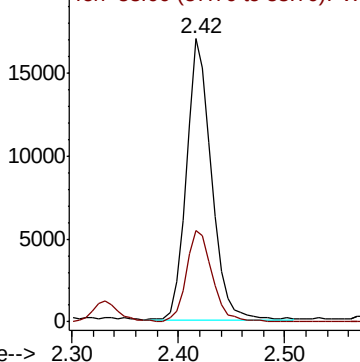
Ion Ratio Lower Upper

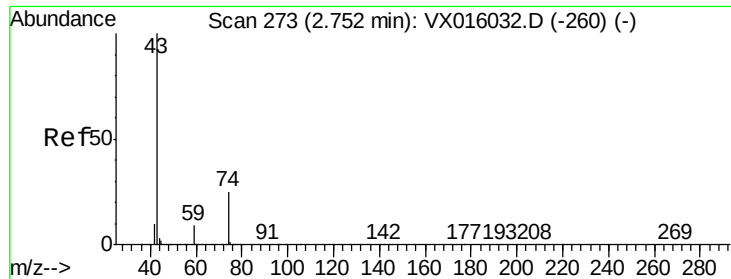
43 100

58 32.5 25.4 38.0



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

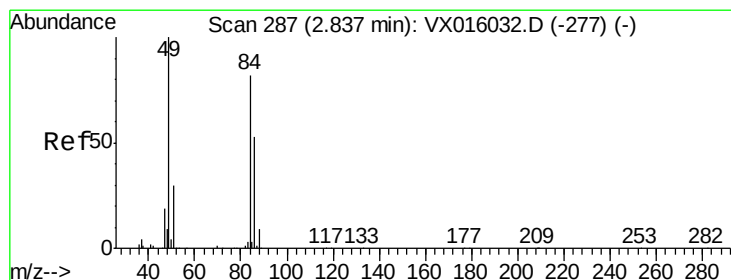
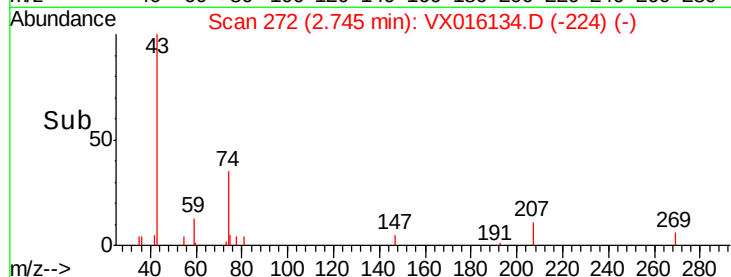
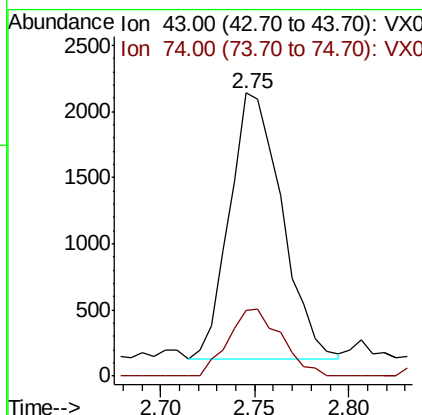
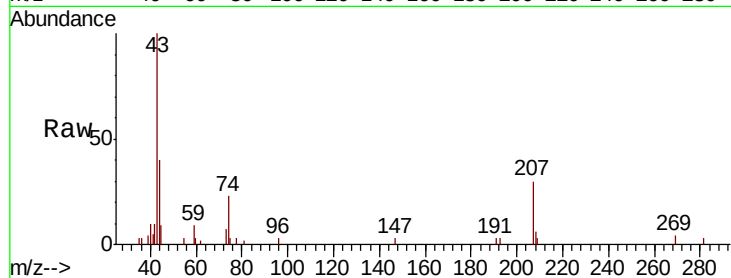




#18
Methvl Acetate
Concen: 0.955 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

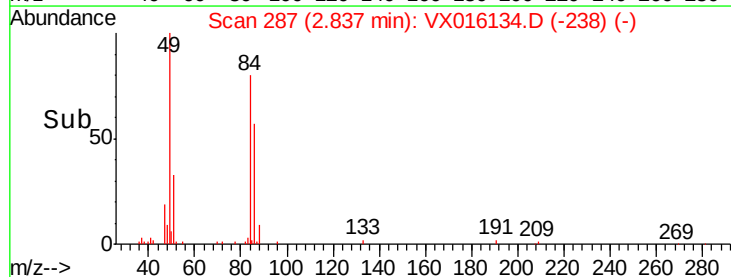
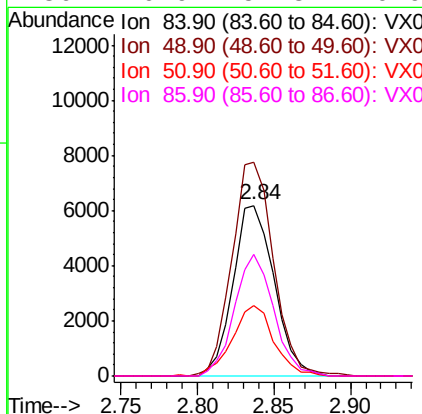
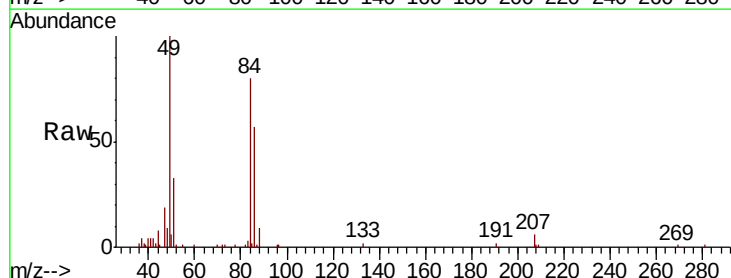
Instrument :
MSVOA_X
ClientSampleId :

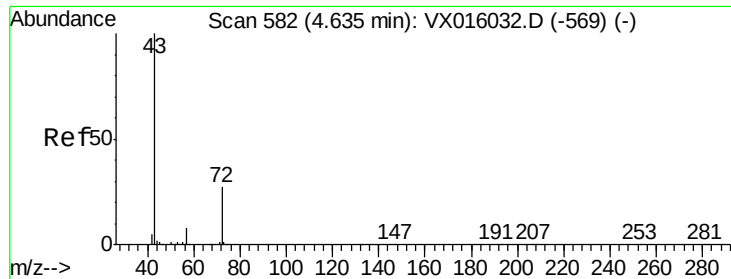
Tot Ion: 43 Resp: 3868
Ion Ratio Lower Upper
43 100
74 25.5 20.2 30.2



#20
Methylene Chloride
Concen: 3.404 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

Tgt Ion: 84 Resp: 11562
Ion Ratio Lower Upper
84 100
49 125.0 97.3 145.9
51 41.5 29.3 43.9
86 70.9 51.3 76.9





#25

2-Butanone

Concen: 2.736 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

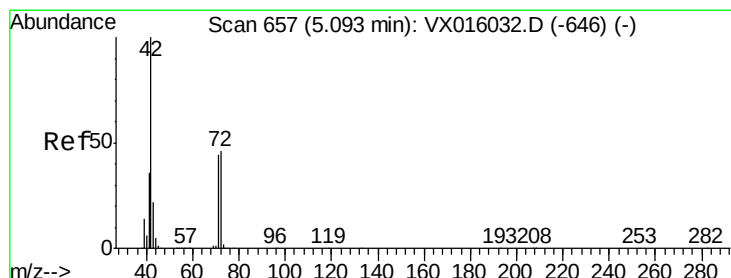
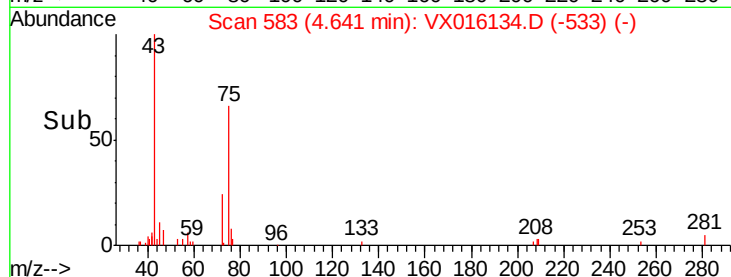
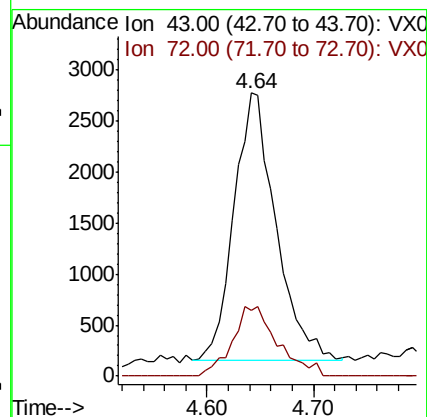
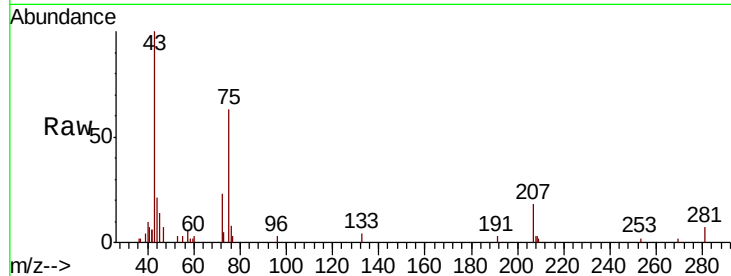
ClientSampleId :

Tot Ion: 43 Resp: 7263

Ion Ratio Lower Upper

43 100

72 24.4 21.8 32.8



#29

Tetrahydrofuran

Concen: 1.322 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

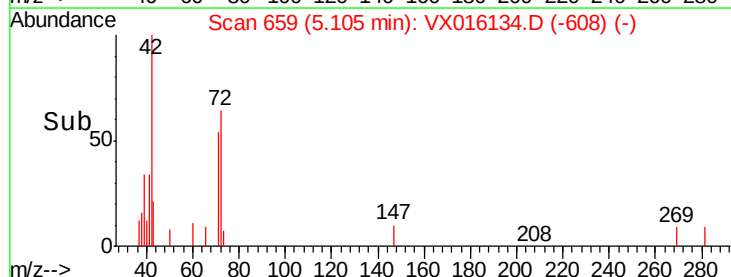
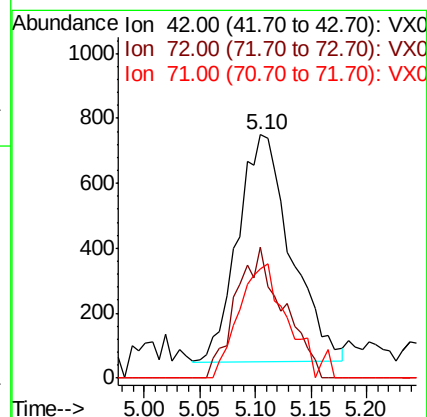
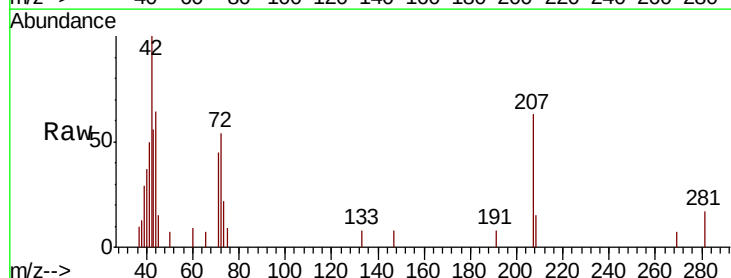
Tgt Ion: 42 Resp: 2326

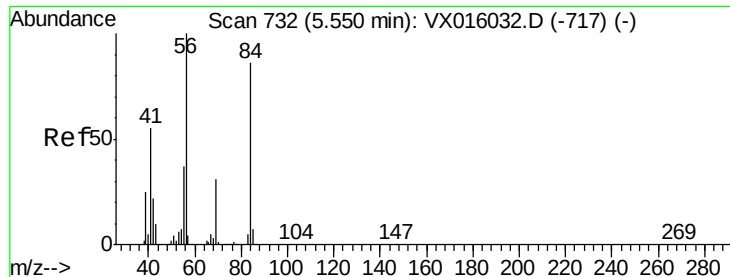
Ion Ratio Lower Upper

42 100

72 51.3 37.1 55.7

71 45.1 34.5 51.7

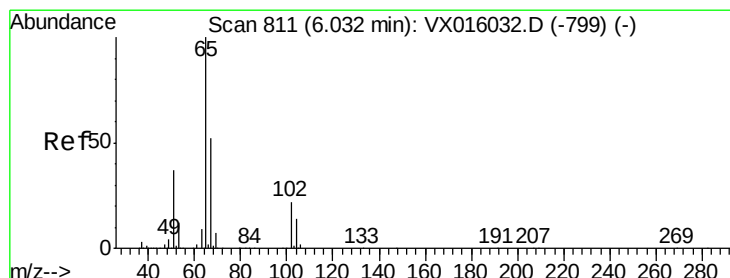
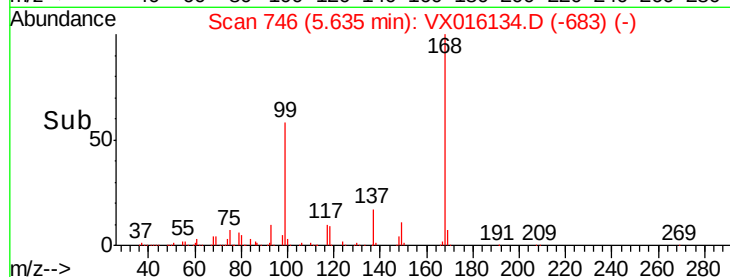
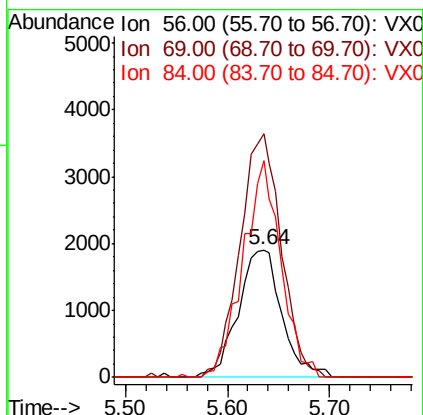
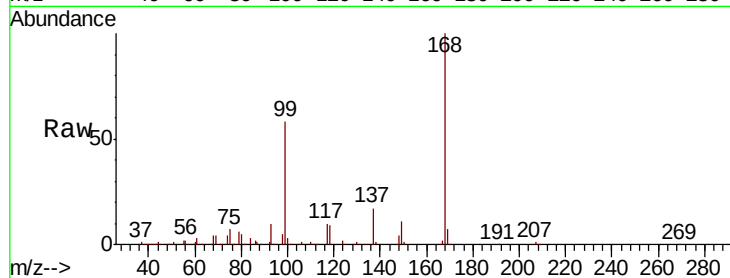




#31
Cyclohexane
Concen: 1.103 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

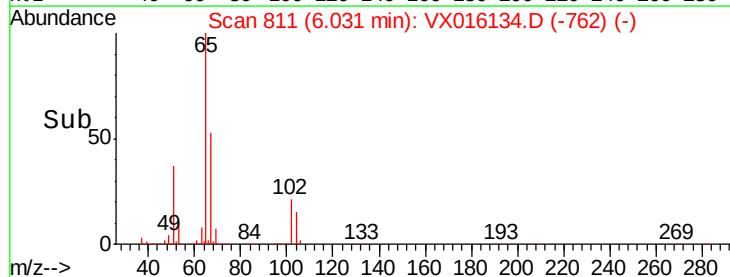
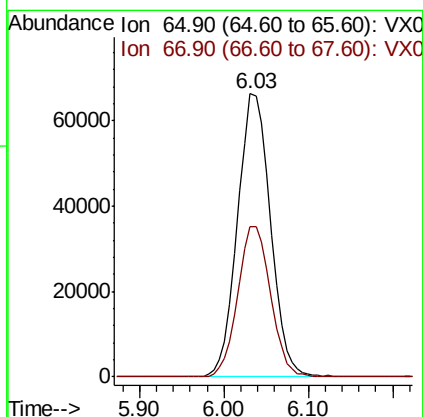
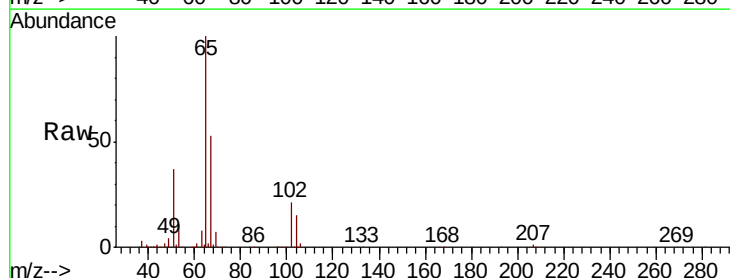
Instrument :
MSVOA_X
ClientSampled :

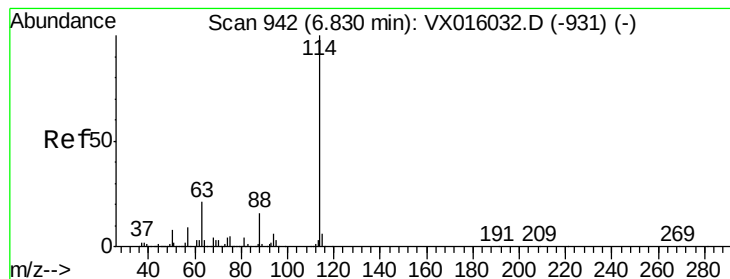
Tot Ion: 56 Resp: 5658
Ion Ratio Lower Upper
56 100
69 190.9 25.0 37.6#
84 169.5 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 47.525 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

Tgt Ion: 65 Resp: 175471
Ion Ratio Lower Upper
65 100
67 52.9 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: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

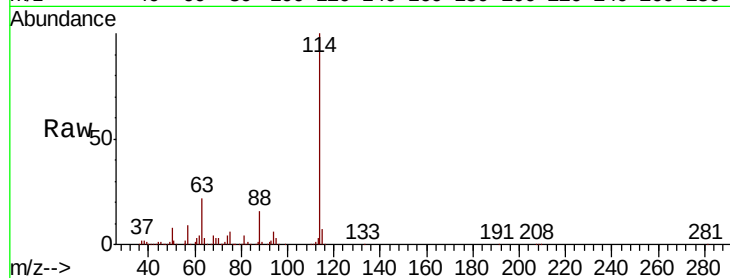
Tot Ion:114 Resp: 470273

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.8

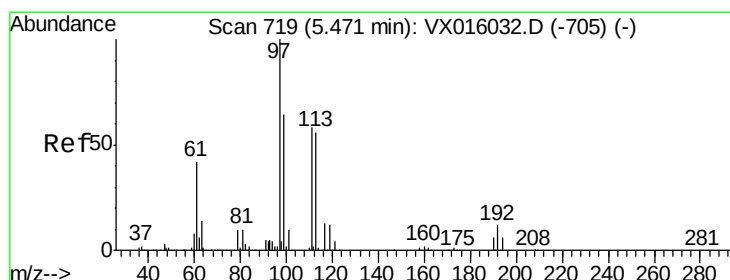
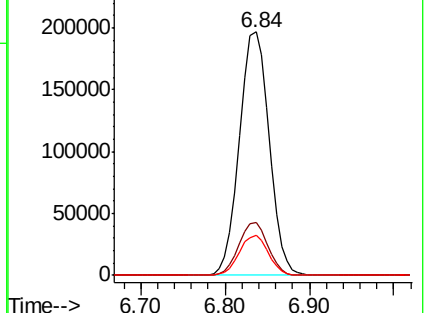
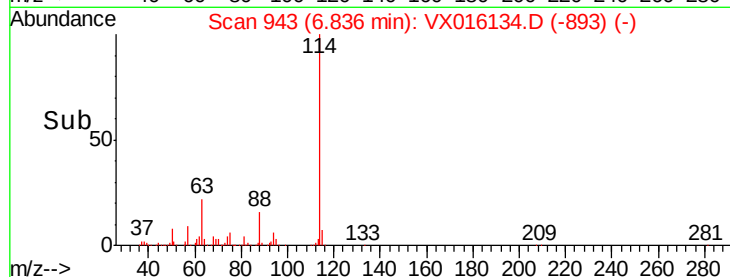
88 16.4 0.0 31.4



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: 46.977 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

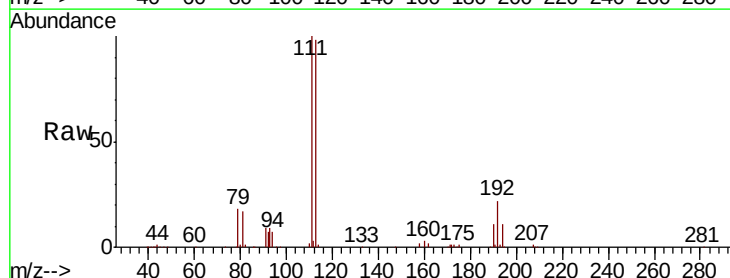
Tgt Ion:113 Resp: 139961

Ion Ratio Lower Upper

113 100

111 102.8 81.6 122.4

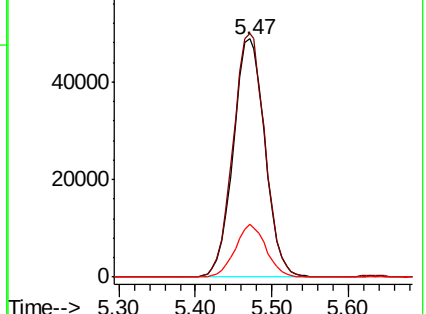
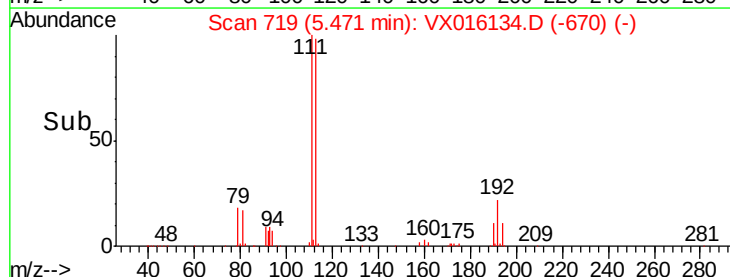
192 21.6 17.0 25.4

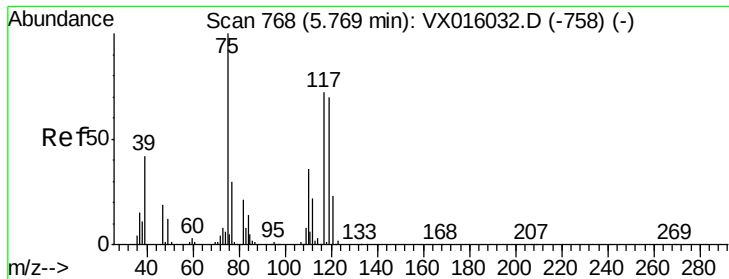


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

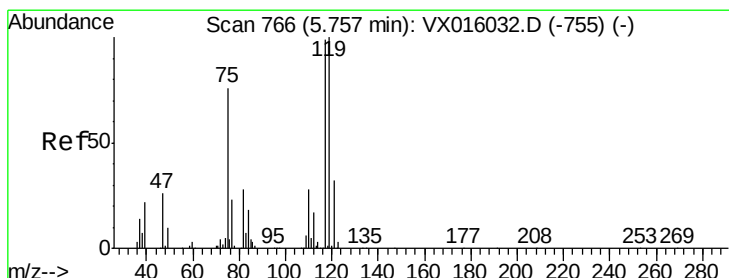
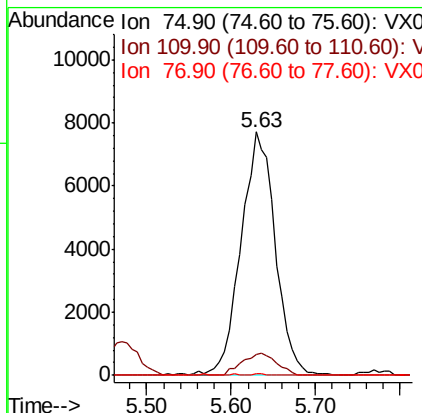
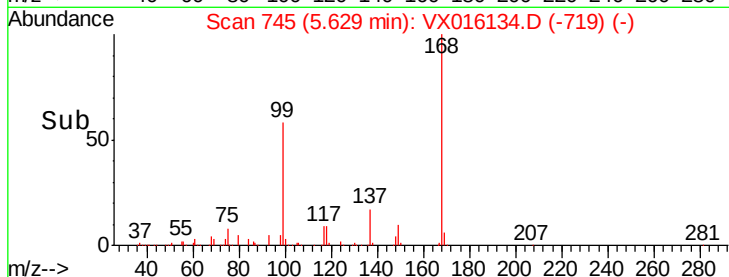
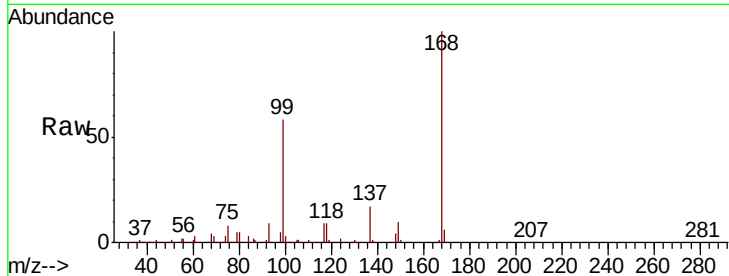




#36
 1,1-Dichloropropene
 Concen: 4.599 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016134.D
 Acq: 08 May 2020 20:13

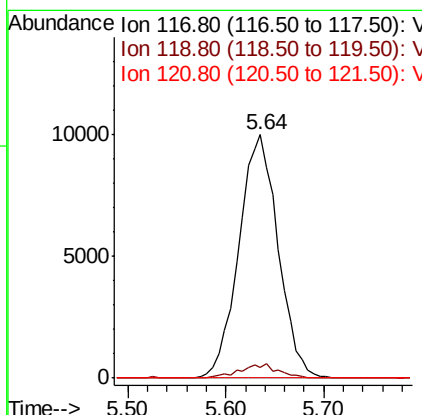
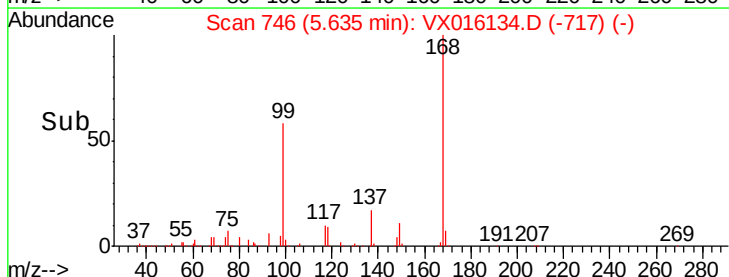
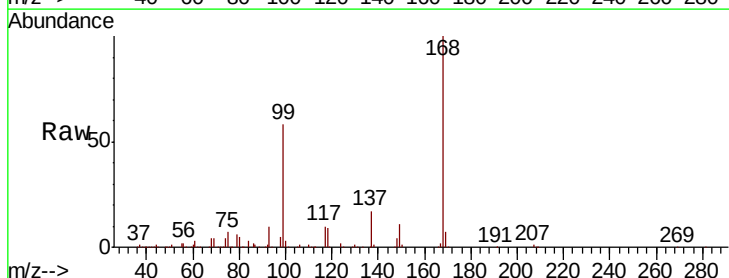
Instrument :
 MSVOA_X
 ClientSampleId :

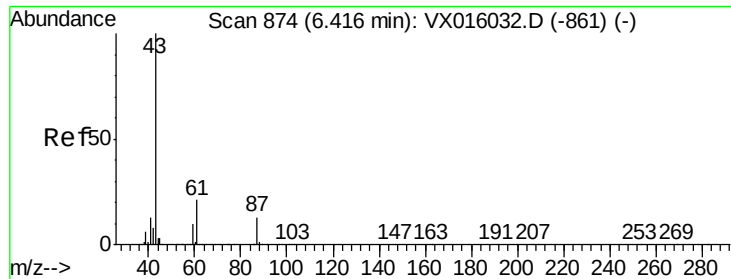
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	0.2	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.886 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016134.D
 Acq: 08 May 2020 20:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	80.3	120.5#
121	0.0	25.7	38.5#





#43

Isopropyl Acetate

Concen: 9.873 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

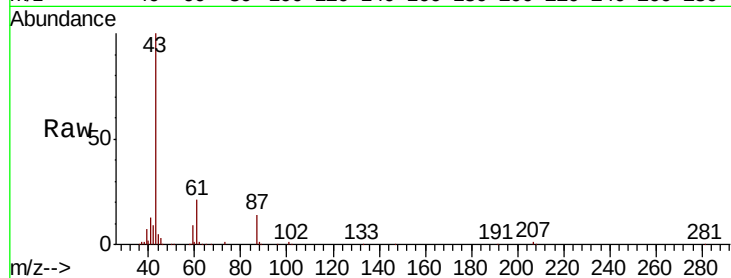
Tot Ion: 43 Resp: 84520

Ion Ratio Lower Upper

43 100

61 21.6 17.0 25.4

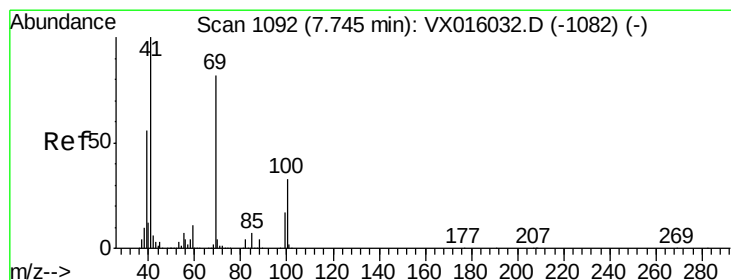
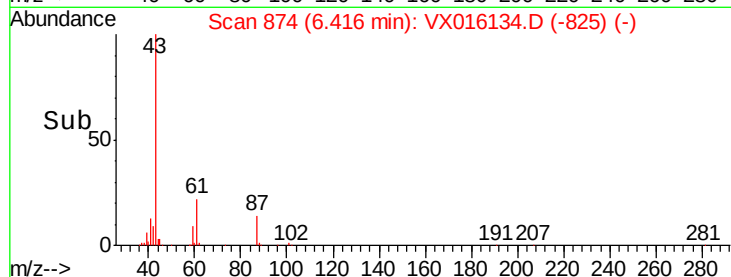
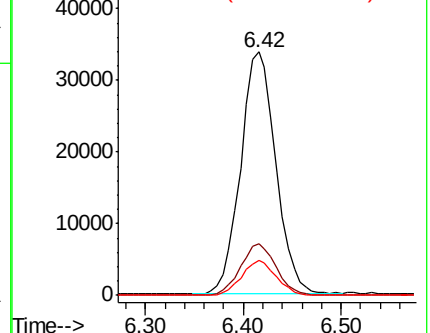
87 14.0 11.0 16.6



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

Methyl methacrylate

Concen: 1.341 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

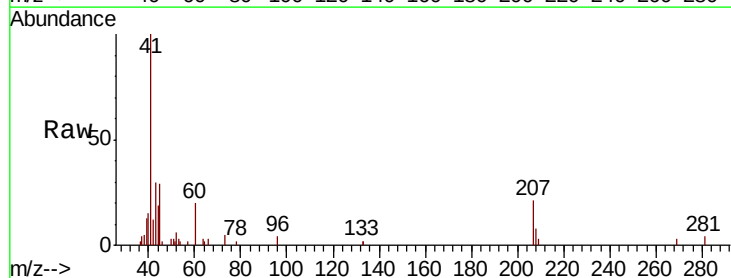
Tgt Ion: 41 Resp: 5441

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.6#

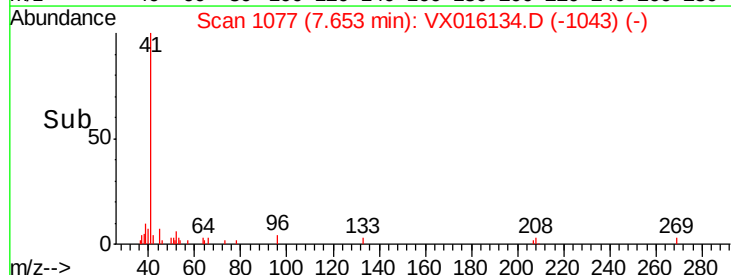
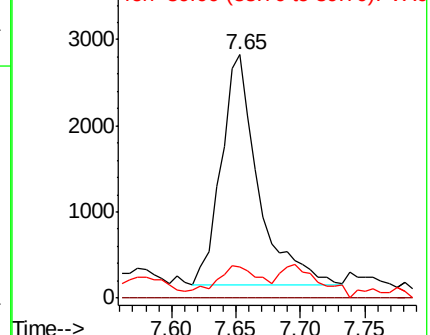
39 0.0 44.6 67.0#

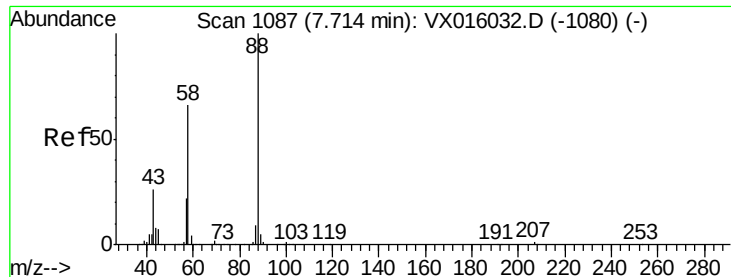


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.257 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

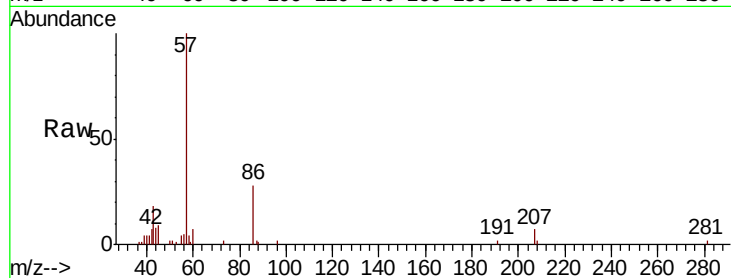
Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 88 Resp: 25

Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.3	37.9#
58	3984.0	55.9	83.9#

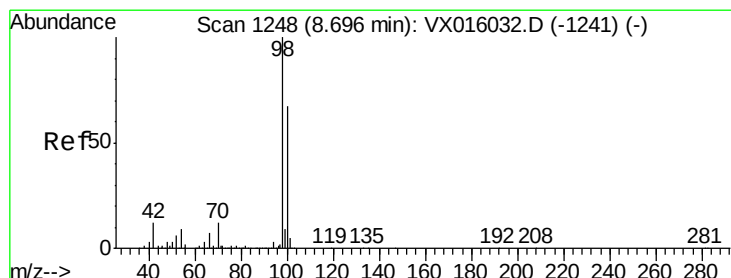
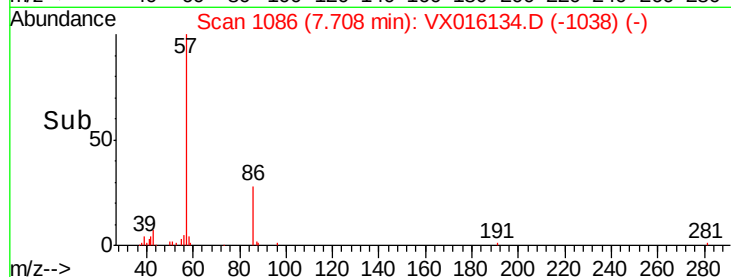
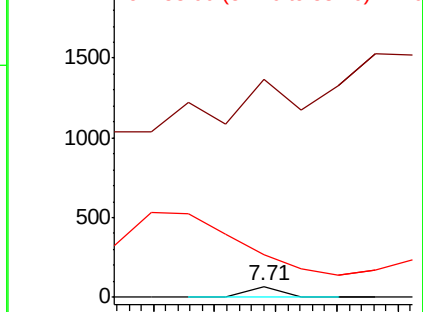


Abundance

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: 50.957 ug/l

RT: 8.70 min Scan# 1248

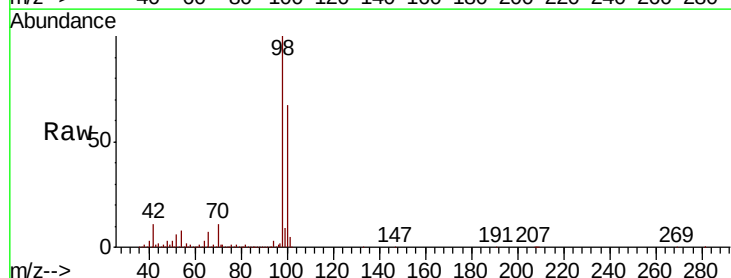
Delta R.T. -0.00 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Tgt Ion: 98 Resp: 584971

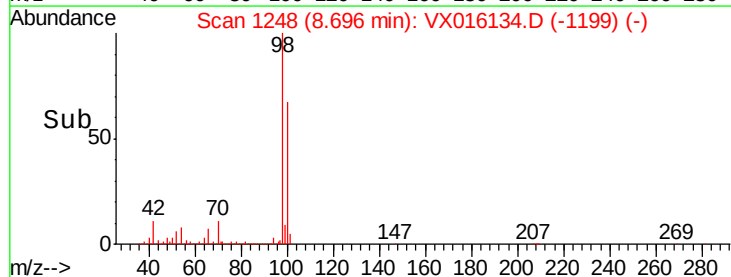
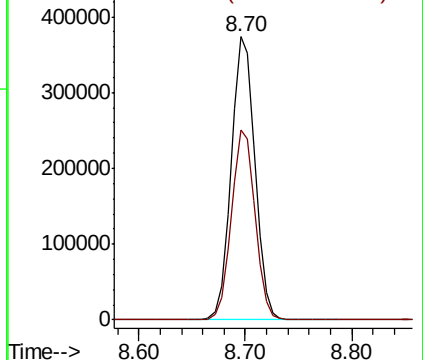
Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.7	80.5

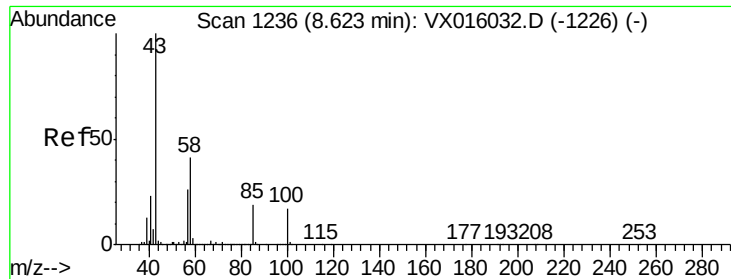


Abundance

Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

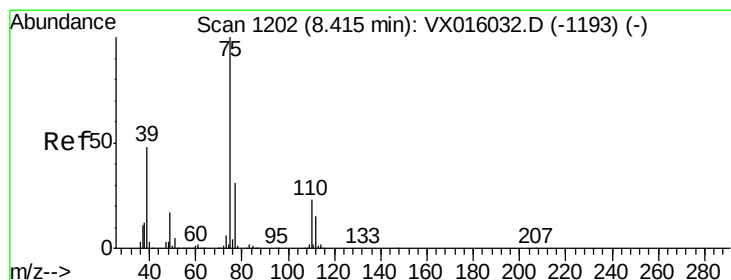
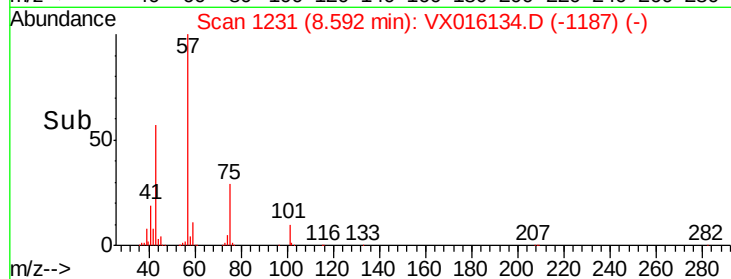
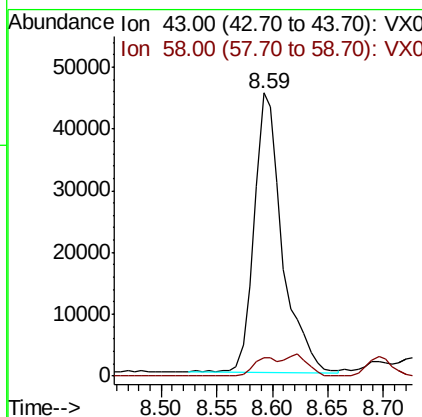
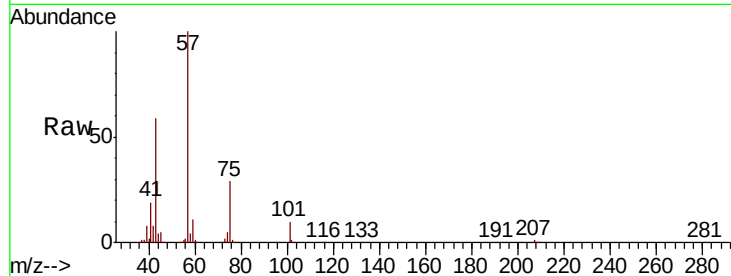




#51
 4-Methyl-2-Pentanone
 Concen: 15.238 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.03 min
 Lab File: VX016134.D
 Acq: 08 May 2020 20:13

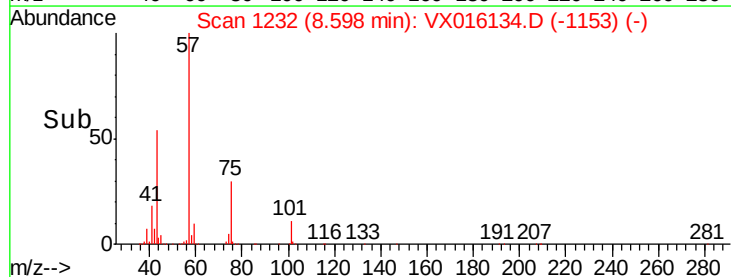
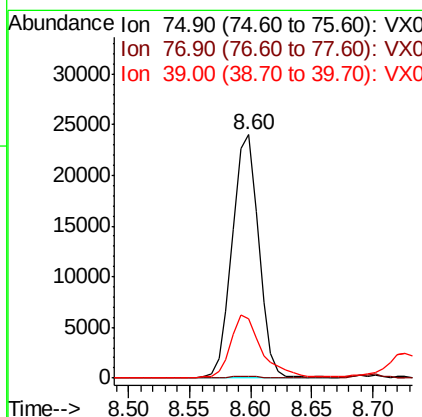
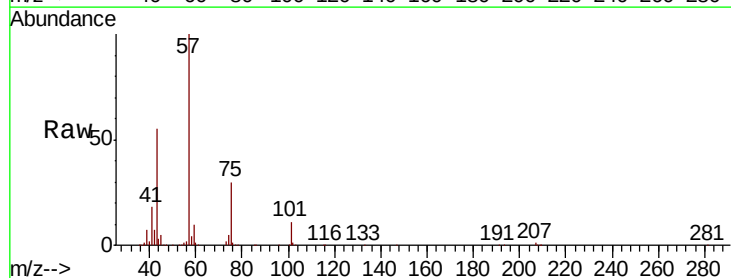
Instrument :
 MSVOA_X
 ClientSampled :

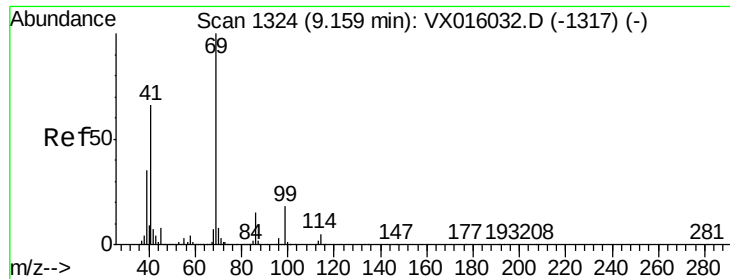
Tot Ion: 43 Resp: 79825
 Ion Ratio Lower Upper
 43 100
 58 5.7 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 6.096 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX016134.D
 Acq: 08 May 2020 20:13

Tgt Ion: 75 Resp: 36010
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.7 37.1#
 39 23.9 38.7 58.1#





#56

Ethyl methacrylate

Concen: 0.205 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

ClientSampled :

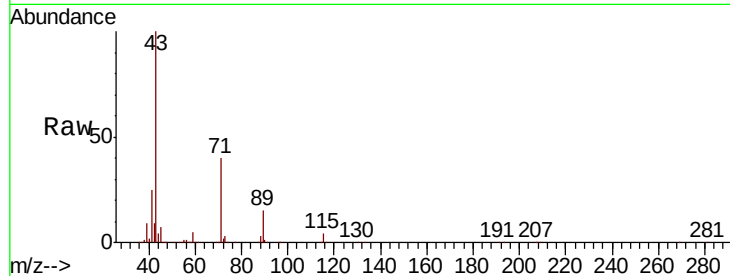
Tot Ion: 69 Resp: 1112

Ion Ratio Lower Upper

69 100

41 5105.6 52.2 78.4#

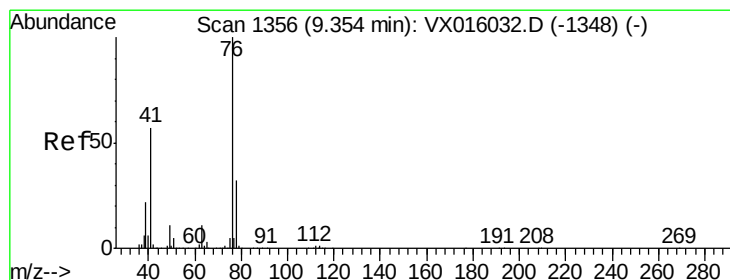
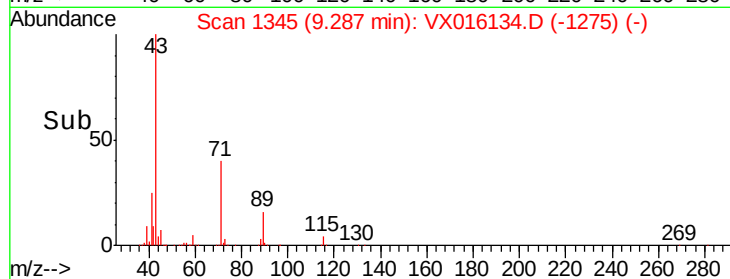
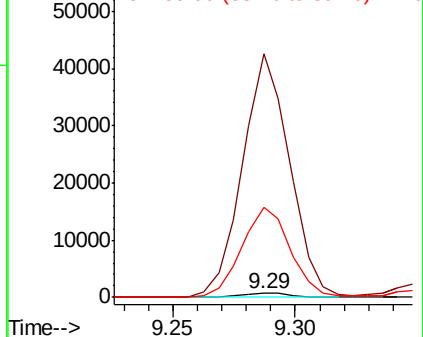
39 1943.1 28.2 42.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.144 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016134.D

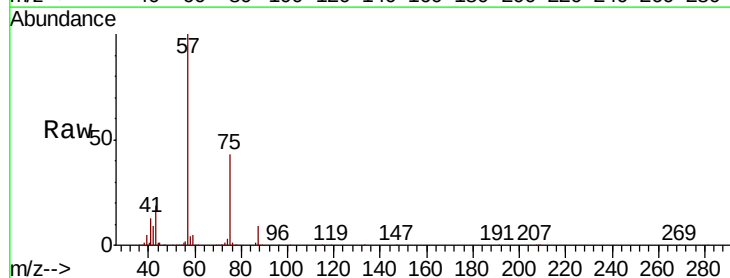
Acq: 08 May 2020 20:13

Tgt Ion: 76 Resp: 6630

Ion Ratio Lower Upper

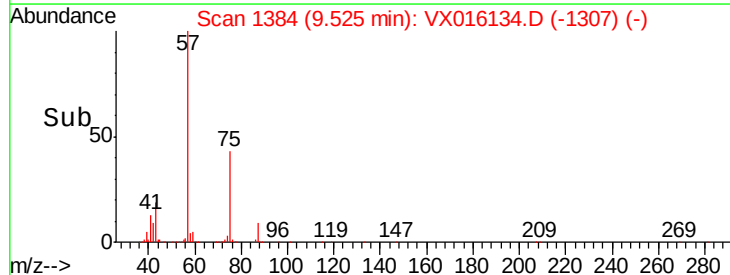
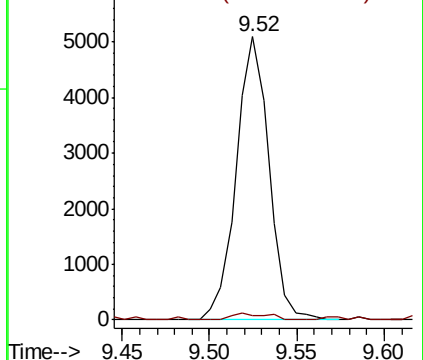
76 100

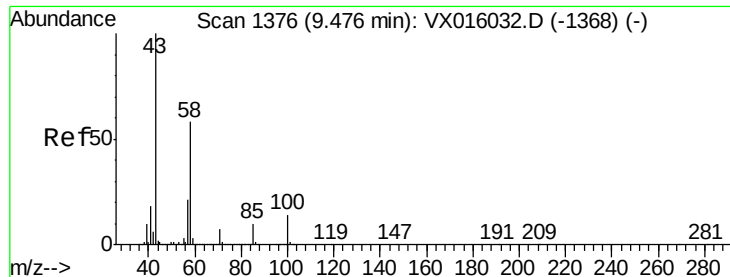
78 2.5 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

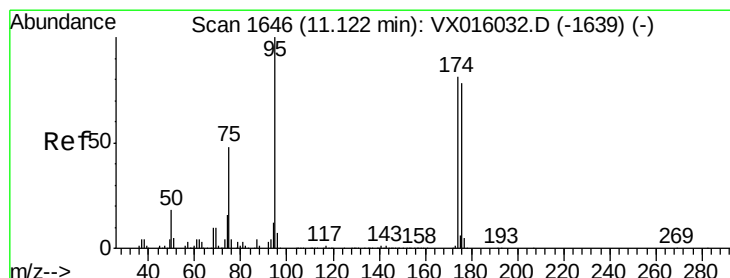
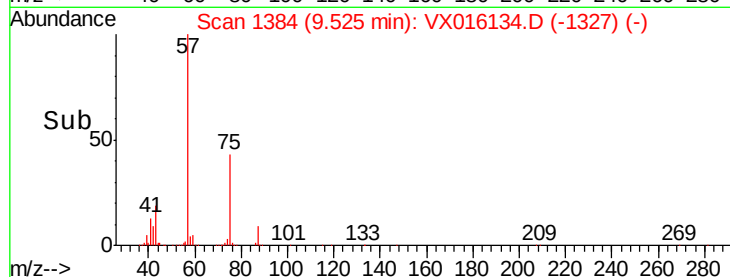
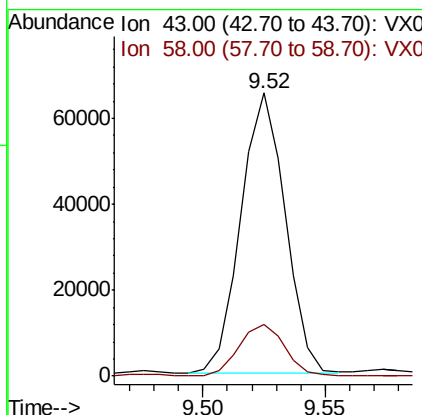
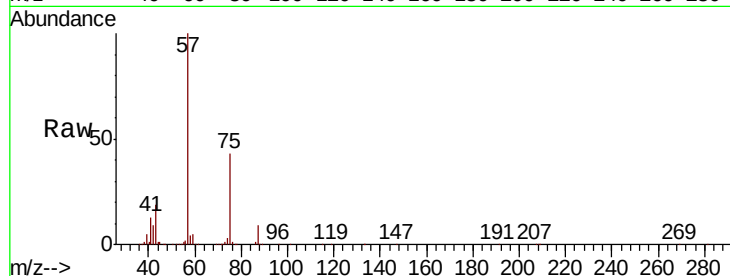




#59
2-Hexanone
Concen: 20.059 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

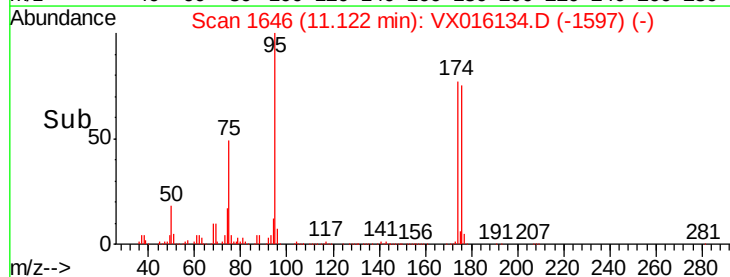
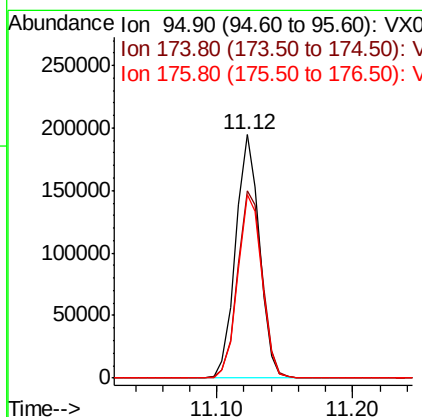
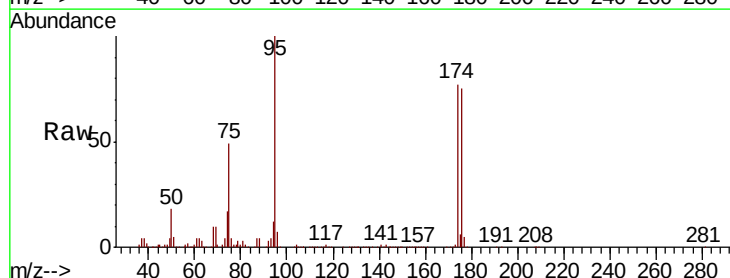
Instrument :
MSVOA_X
ClientSampleId :

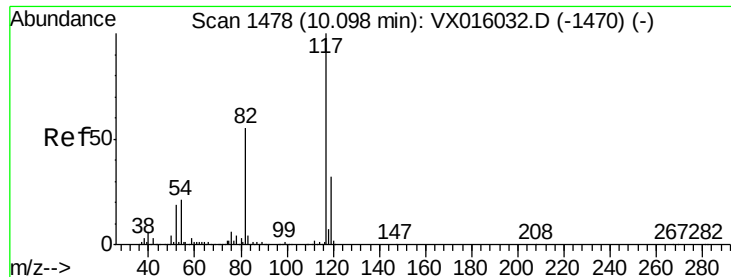
Tot Ion: 43 Resp: 82522
Ion Ratio Lower Upper
43 100
58 19.3 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 54.136 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

Tgt Ion: 95 Resp: 236376
Ion Ratio Lower Upper
95 100
174 80.1 0.0 159.4
176 76.9 0.0 157.6

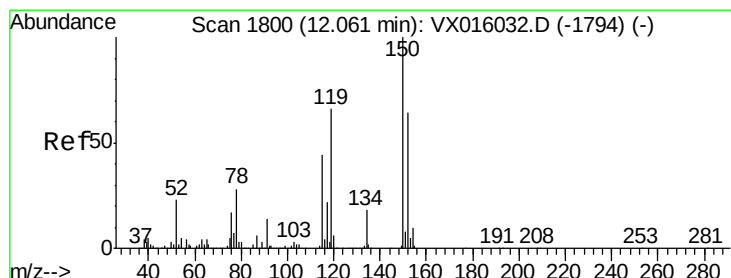
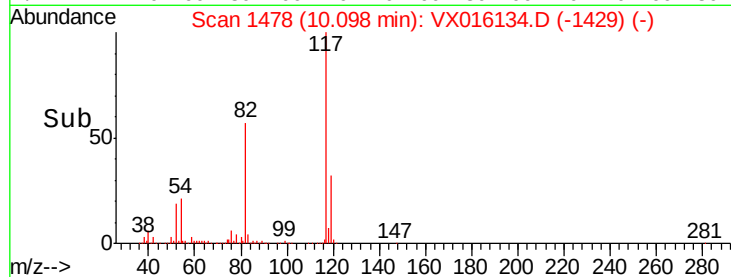
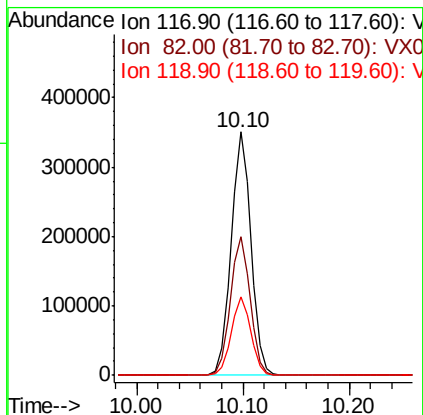
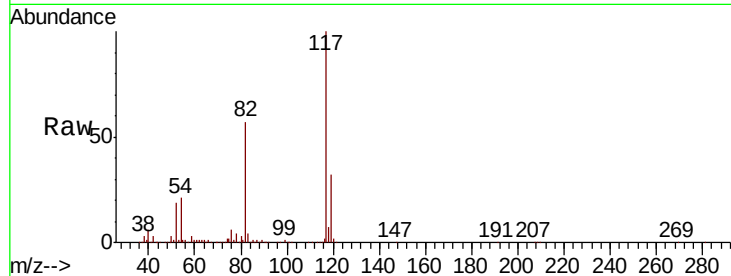




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

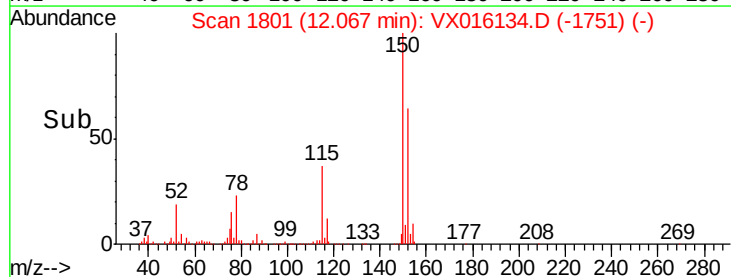
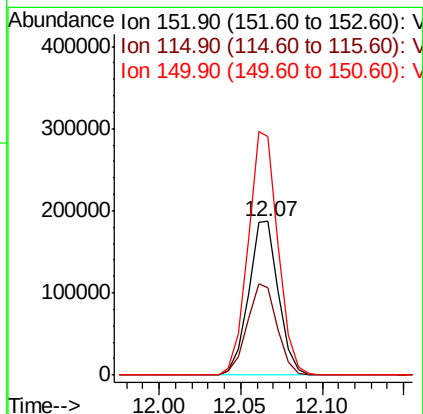
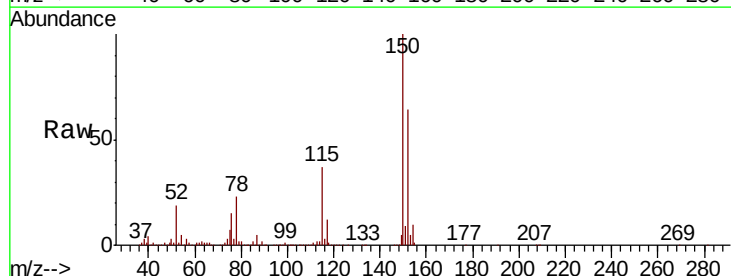
Instrument :
MSVOA_X
ClientSampleId :

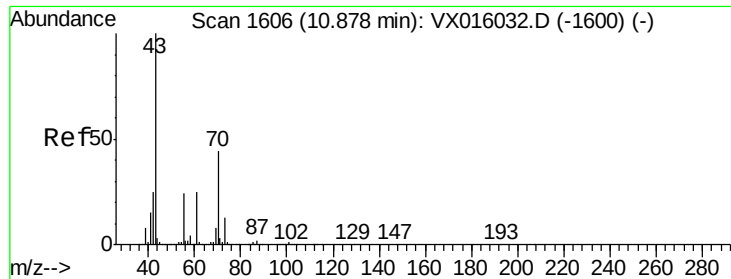
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.4	66.6
119	32.4	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016134.D
Acq: 08 May 2020 20:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.8	41.3	124.1
150	158.3	0.0	352.2





#74

N-amvl acetate

Concen: 0.533 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 4313

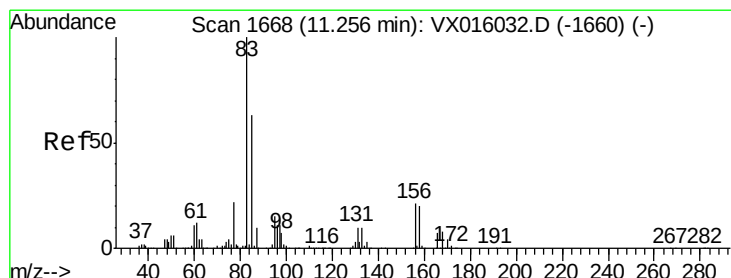
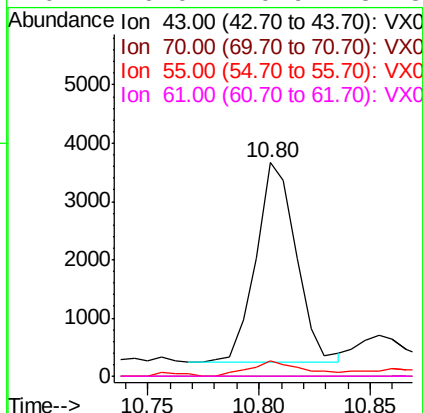
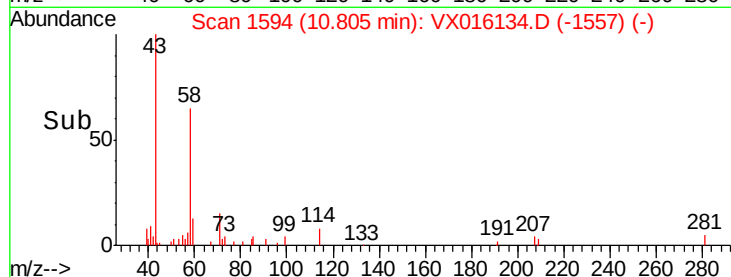
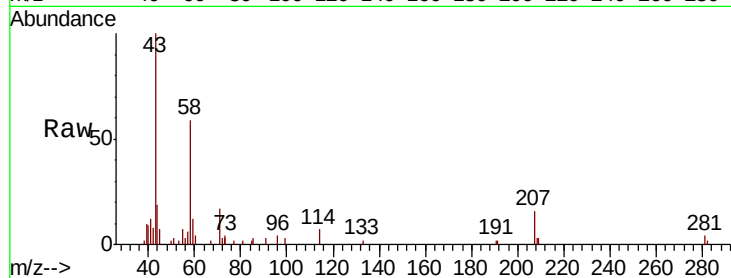
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 10.1 19.7 29.5#

61 0.0 20.9 31.3#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.106 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

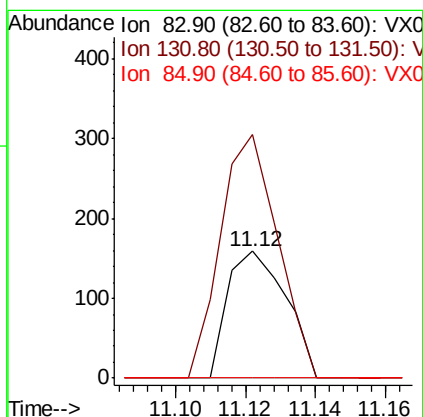
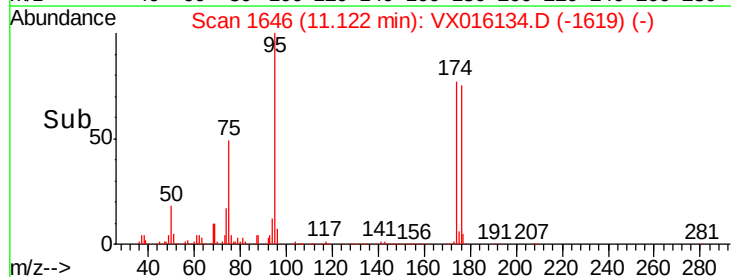
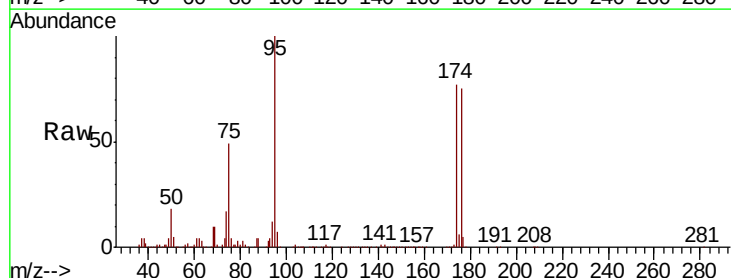
Tgt Ion: 83 Resp: 184

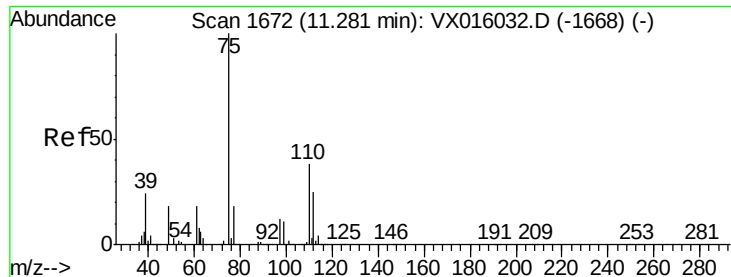
Ion Ratio Lower Upper

83 100

131 188.0 5.1 15.4#

85 0.0 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 21.665 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

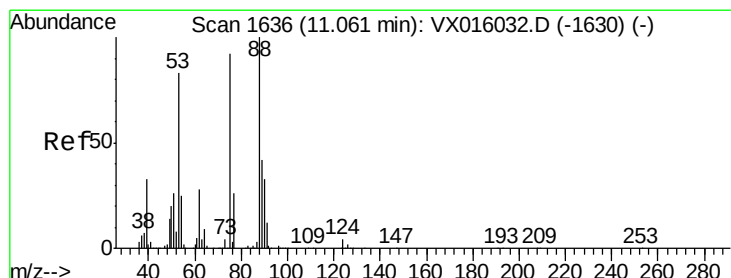
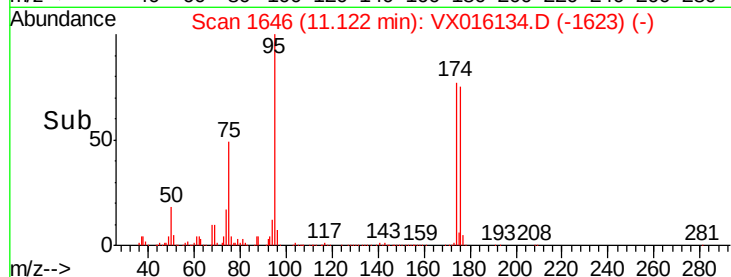
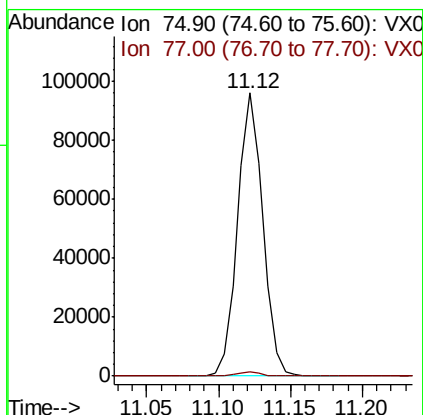
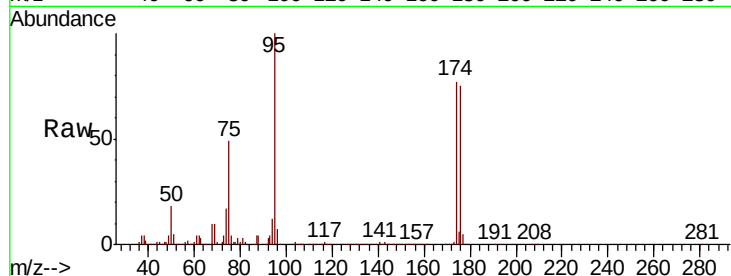
ClientSampled :

Tot Ion: 75 Resp: 117229

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.630 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

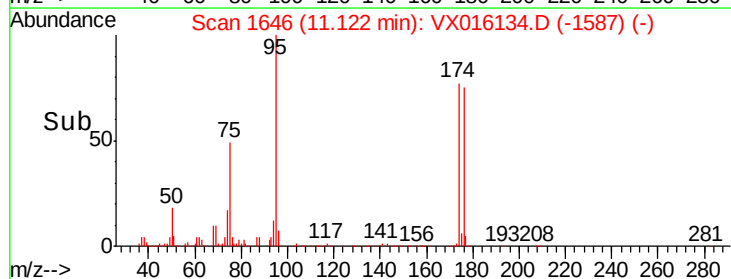
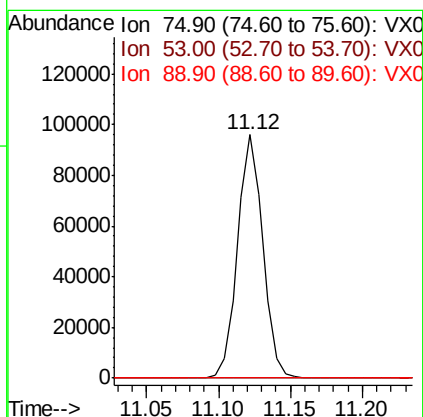
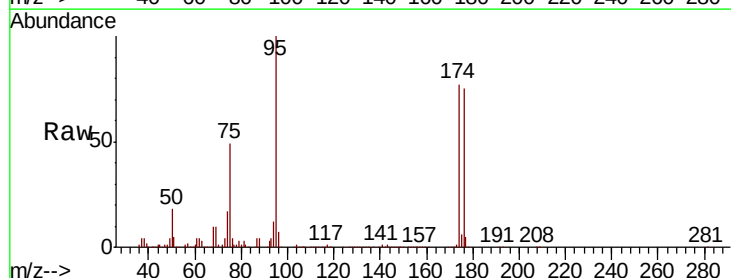
Tgt Ion: 75 Resp: 117229

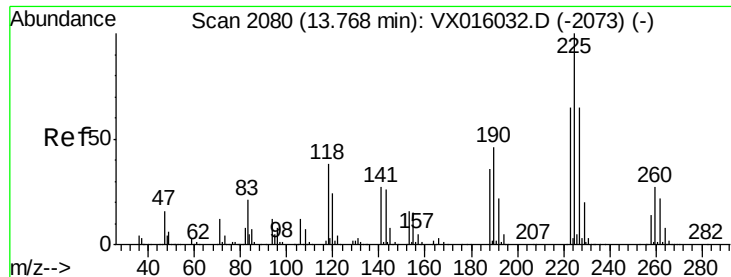
Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.562 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016134.D

Acq: 08 May 2020 20:13

Instrument :

MSVOA_X

ClientSampleId :

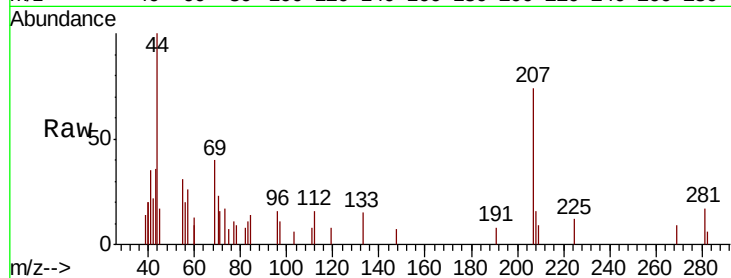
Tot Ion: 225 Resp: 96

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.9#

227 0.0 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

