

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019318.D
 Acq On : 05 Nov 2020 16:48
 Operator : JC/MD
 Sample : PB132824ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

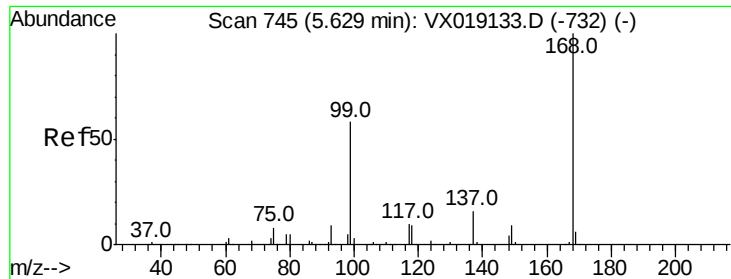
Quant Time: Nov 06 01:09:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	264766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	470303	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	451352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	222255	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	192087	56.26	ug/l	0.00
Spiked Amount			Recovery	=	112.52%	
35) Dibromofluoromethane	5.46	113	151317	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	8.70	98	586783	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
62) 4-Bromofluorobenzene	11.12	95	219151	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1226	1.818	ug/l #	72
13) Acrolein	2.24	56	173	6.209	ug/l #	16
16) Acetone	2.42	43	9756	8.282	ug/l	99
17) Carbon Disulfide	2.54	76	271	0.796	ug/l #	75
18) Methyl Acetate	2.75	43	3263	1.139	ug/l	94
20) Methylene Chloride	2.84	84	5347	1.808	ug/l	96
25) 2-Butanone	4.65	43	1282	0.691	ug/l	92
29) Tetrahydrofuran	5.10	42	1195	1.021	ug/l #	61
31) Cyclohexane	5.63	56	5947	1.378	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	21659	4.987	ug/l #	49
38) Carbon Tetrachloride	5.63	117	27366	6.182	ug/l #	17
43) Isopropyl Acetate	6.41	43	76920	11.393	ug/l	99
48) Methyl methacrylate	7.65	41	4266	1.313	ug/l #	9
49) 1,4-Dioxane	7.85	88	287	3.971	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	75240	19.389	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	37352	7.075	ug/l #	63
56) Ethyl methacrylate	9.29	69	1201	0.254	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6658	1.260	ug/l #	42
59) 2-Hexanone	9.42	43	72692	24.609	ug/l #	20
76) 1,2,3-Trichloropropane	11.12	75	115070	25.075	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	11276	0.848	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	115070	66.021	ug/l #	12

(#) = 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. -0.00 min

Lab File: VX019318.D

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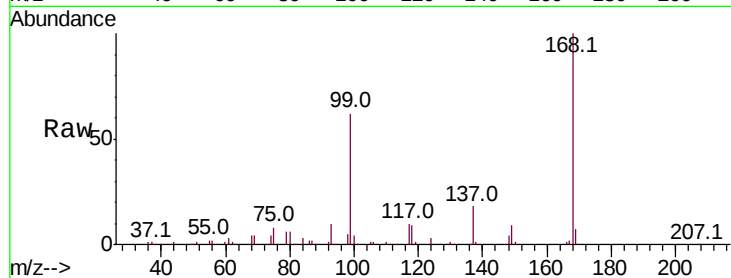
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 264766

Ion Ratio Lower Upper

168 100

99 62.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

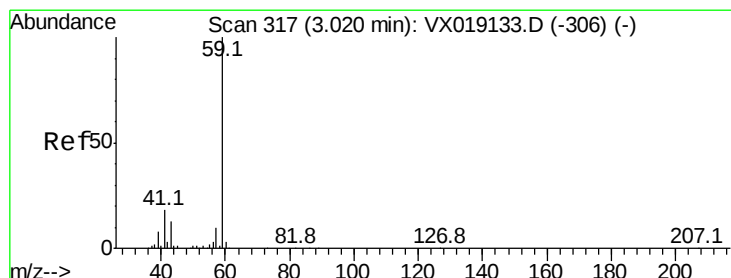
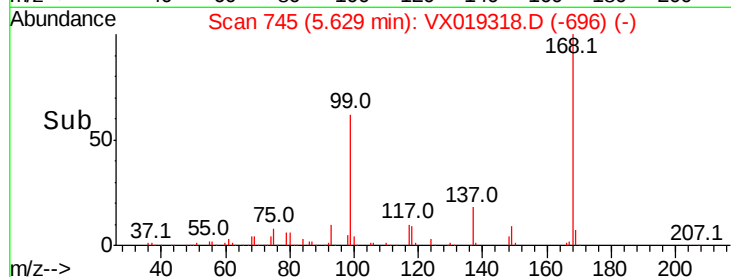
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.818 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019318.D

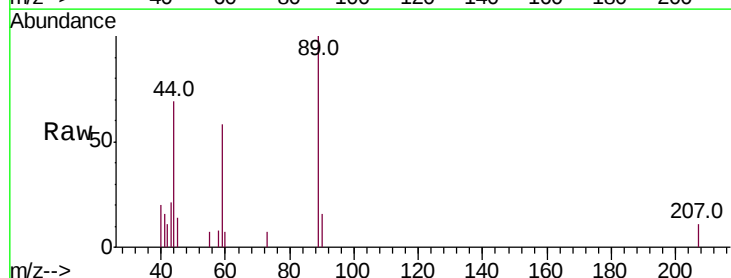
Acq: 05 Nov 2020 16:48

Tgt Ion: 59 Resp: 1226

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

500

400

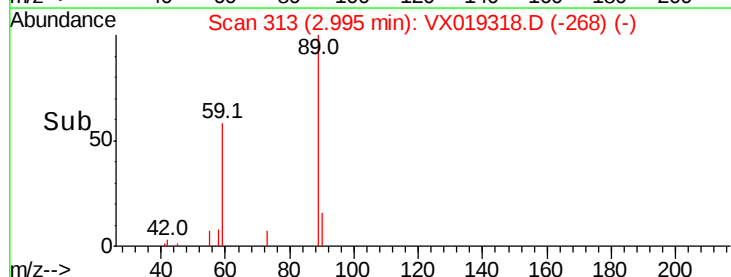
300

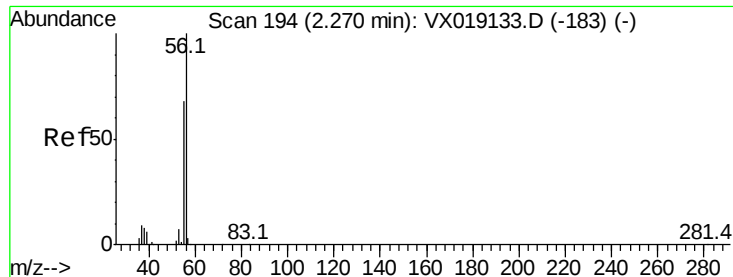
200

100

0

Time-->





#13

Acrolein

Concen: 6.209 ug/l

RT: 2.24 min Scan# 189

Delta R.T. -0.03 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

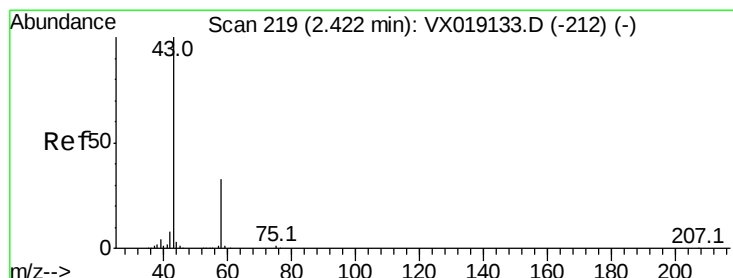
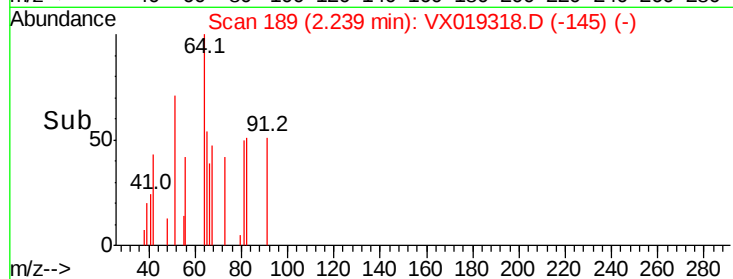
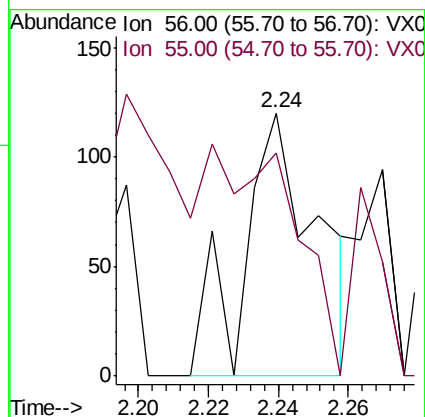
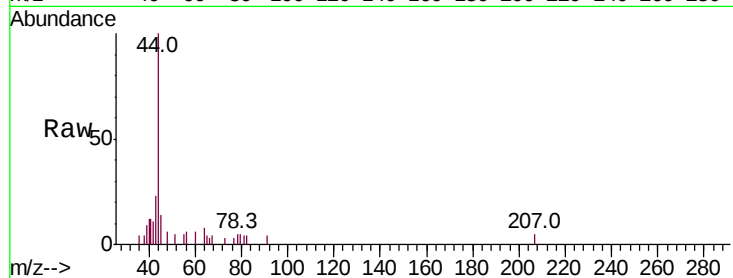
ClientSampled :

Tot Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#16

Acetone

Concen: 8.282 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019318.D

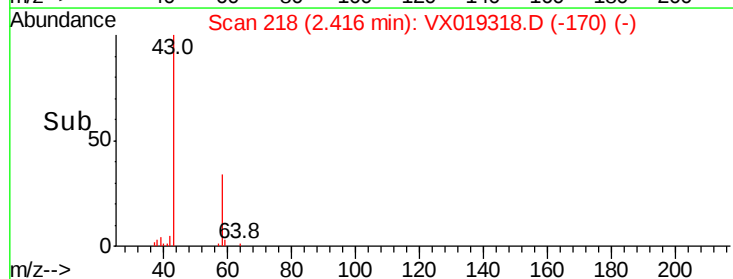
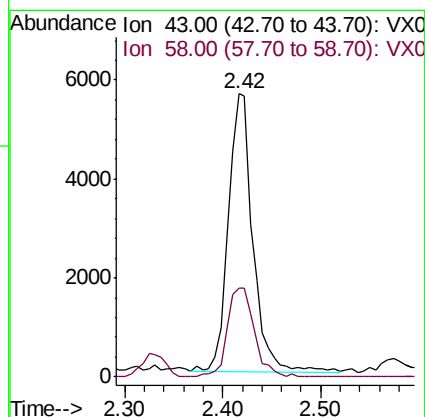
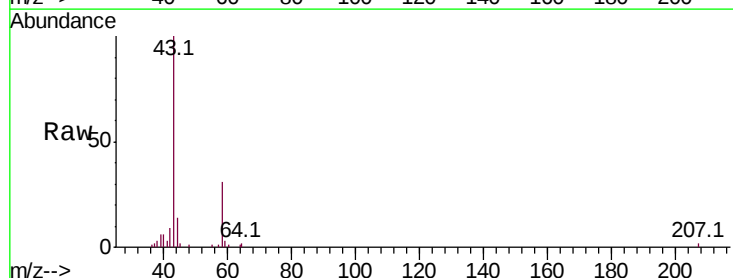
Acq: 05 Nov 2020 16:48

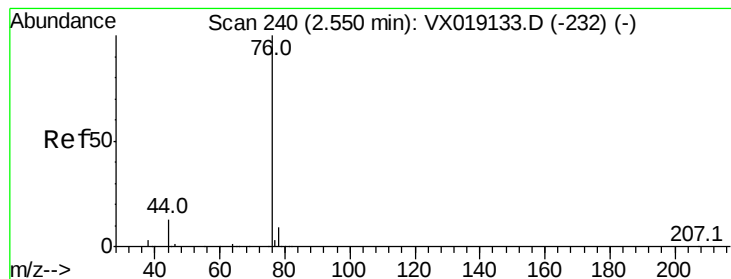
Tgt Ion: 43 Resp: 9756

Ion Ratio Lower Upper

43 100

58 32.1 26.3 39.5





#17

Carbon Disulfide

Concen: 0.796 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

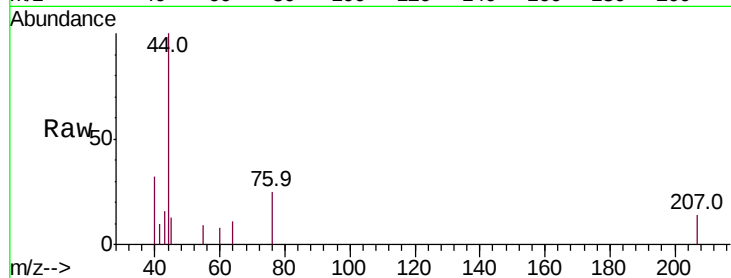
ClientSampleId :

Tot Ion: 76 Resp: 271

Ion Ratio Lower Upper

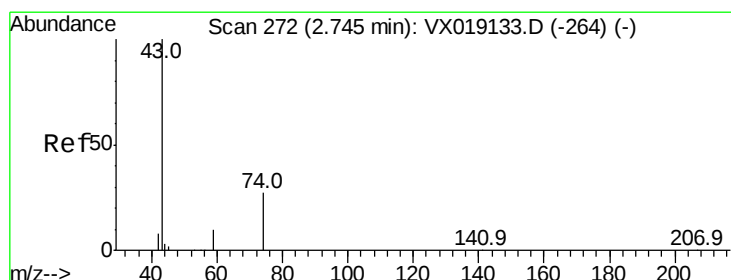
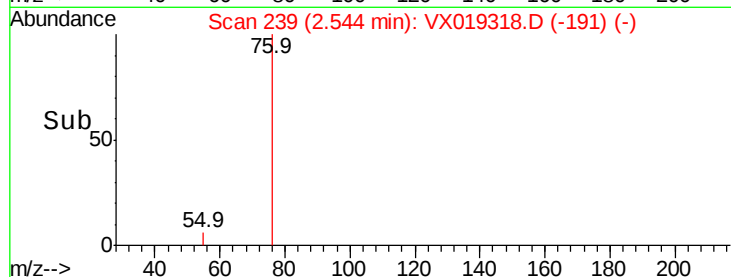
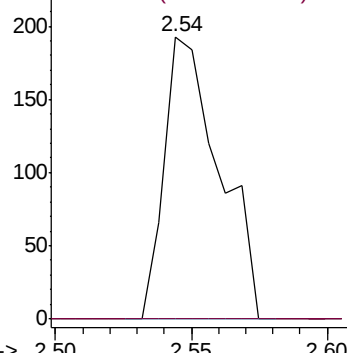
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.139 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019318.D

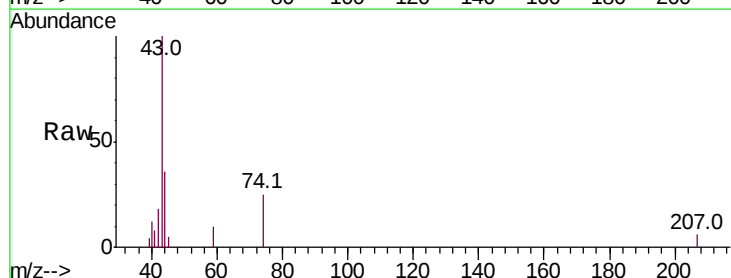
Acq: 05 Nov 2020 16:48

Tgt Ion: 43 Resp: 3263

Ion Ratio Lower Upper

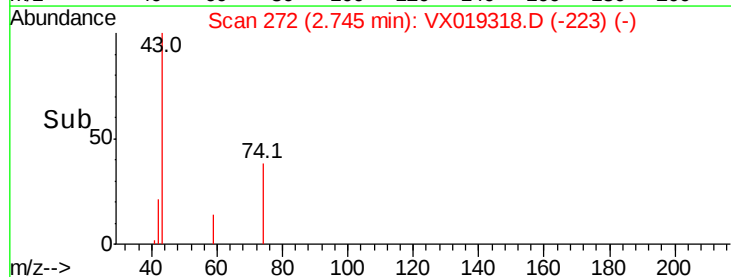
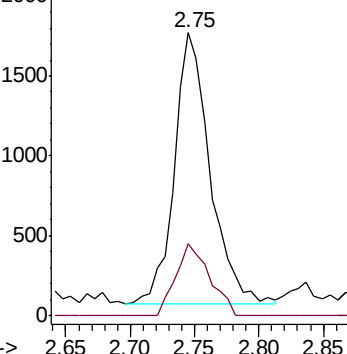
43 100

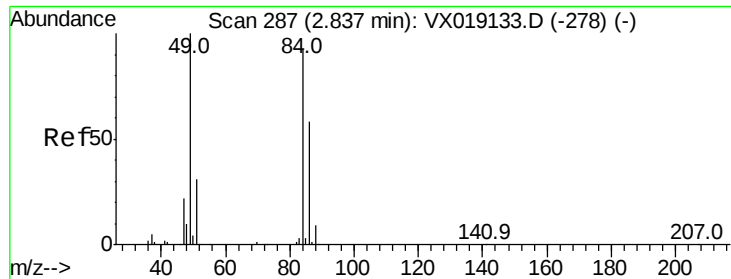
74 25.3 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

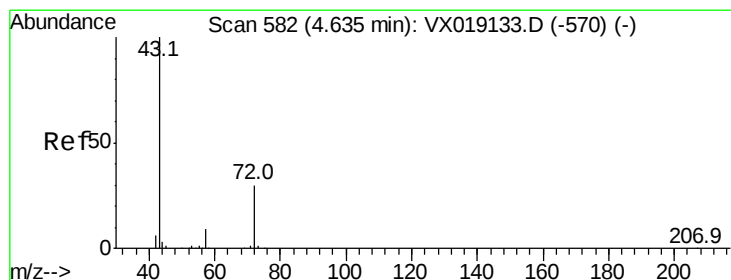
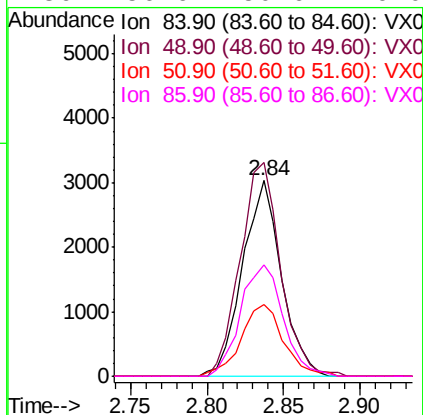
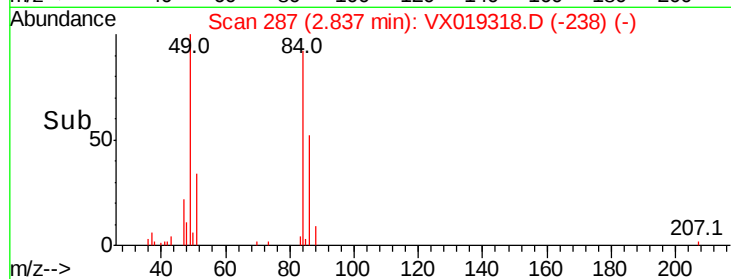
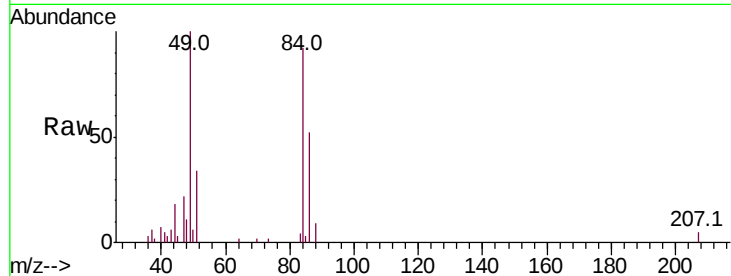




#20
Methvlene Chloride
Concen: 1.808 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

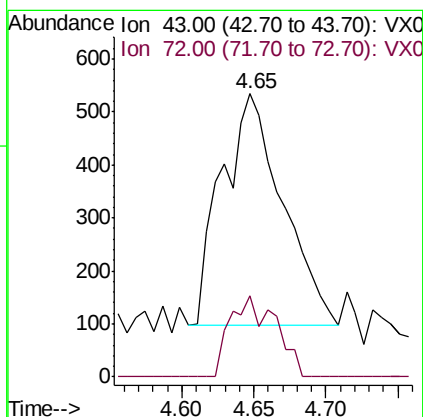
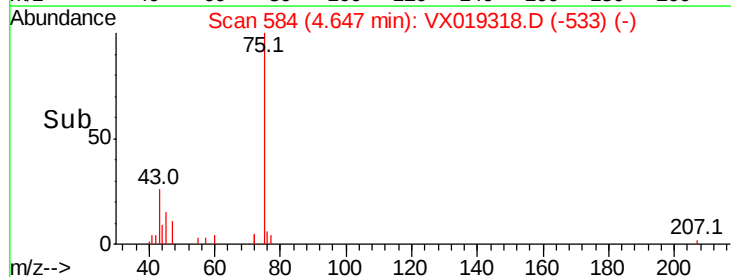
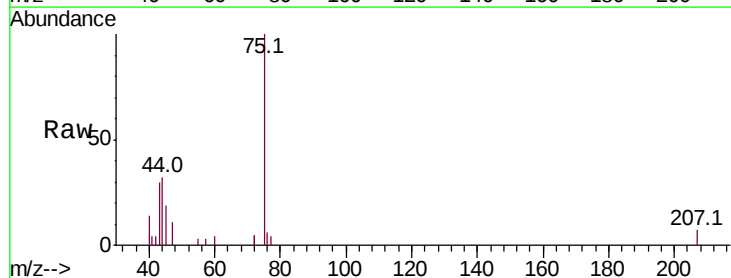
Instrument :
MSVOA_X
ClientSampleId :

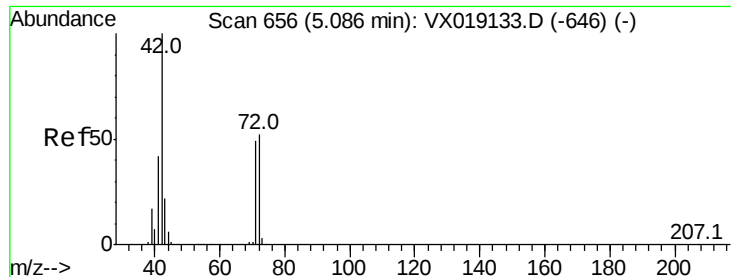
Tot Ion:	84	Resp:	5347
Ion	Ratio	Lower	Upper
84	100		
49	109.1	86.8	130.2
51	36.7	27.3	40.9
86	56.6	50.6	76.0



#25
2-Butanone
Concen: 0.691 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

Tgt Ion:	43	Resp:	1282
Ion	Ratio	Lower	Upper
43	100		
72	34.9	24.6	36.8

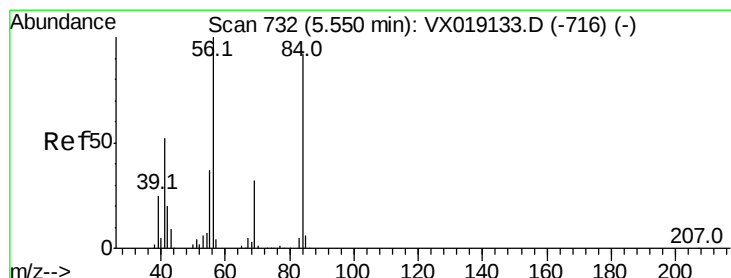
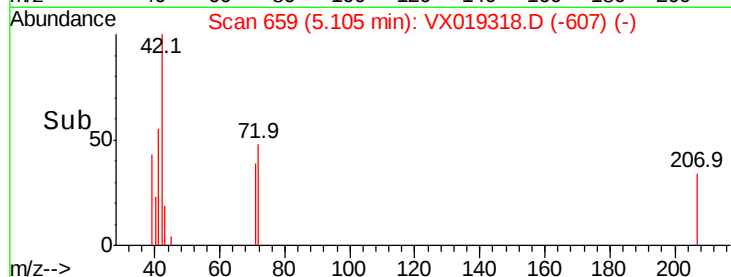
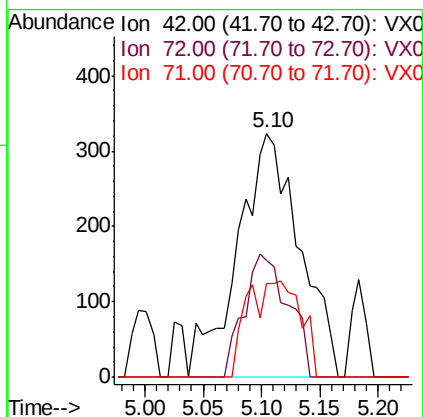
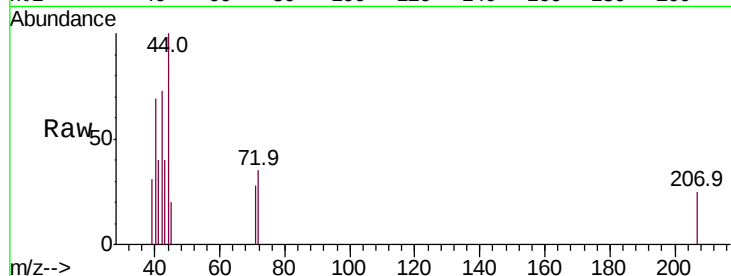




#29
Tetrahydrofuran
Concen: 1.021 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

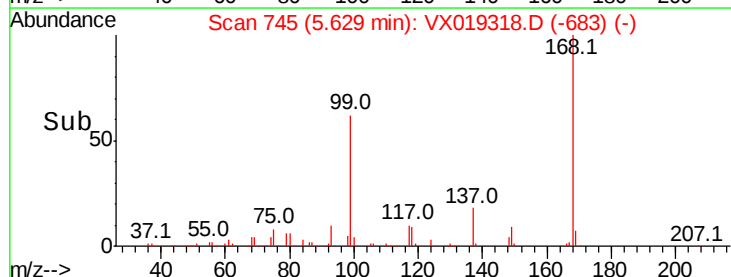
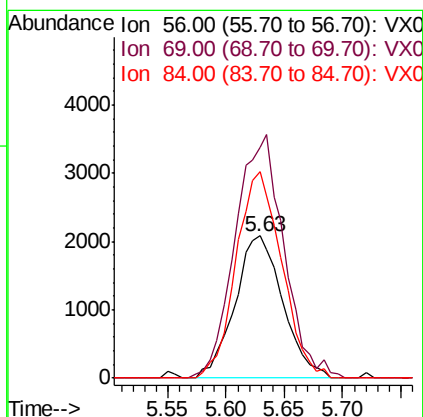
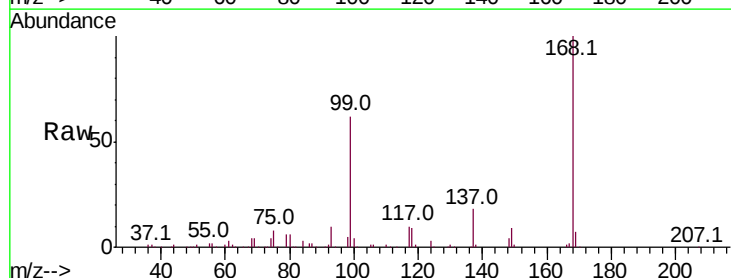
Instrument :
MSVOA_X
ClientSampleId :

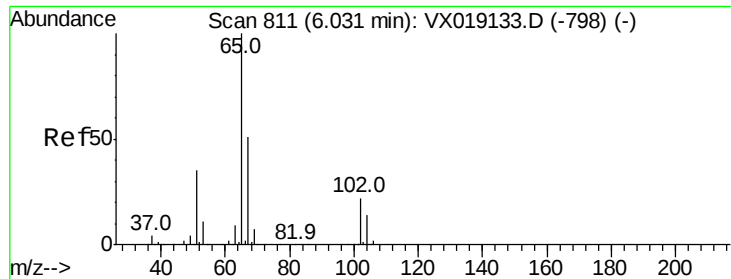
Tot Ion: 42 Resp: 1195
Ion Ratio Lower Upper
42 100
72 36.2 42.6 63.8#
71 11.4 39.7 59.5#



#31
Cyclohexane
Concen: 1.378 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

Tgt Ion: 56 Resp: 5947
Ion Ratio Lower Upper
56 100
69 162.5 25.9 38.9#
84 145.2 73.4 110.2#





#33

1,2-Dichloroethane-d4

Concen: 56.257 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

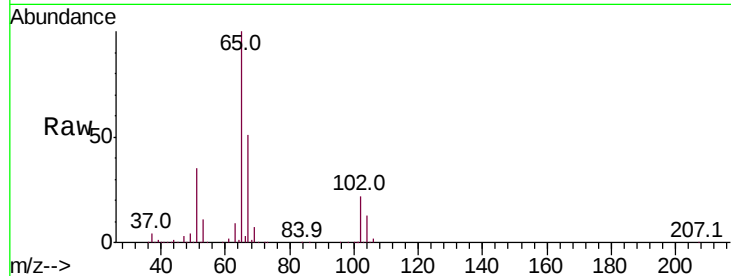
ClientSampleId :

Tot Ion: 65 Resp: 192087

Ion Ratio Lower Upper

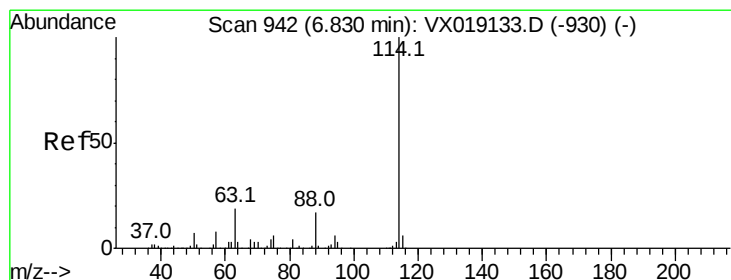
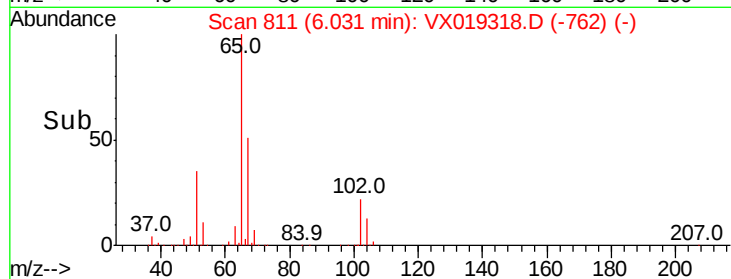
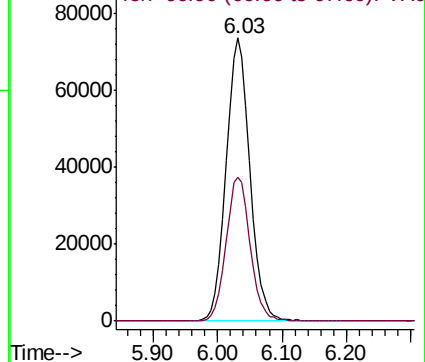
65 100

67 51.4 0.0 103.0



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

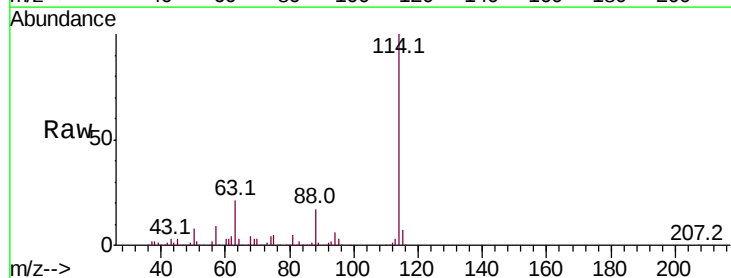
Tgt Ion: 114 Resp: 470303

Ion Ratio Lower Upper

114 100

63 21.4 0.0 38.8

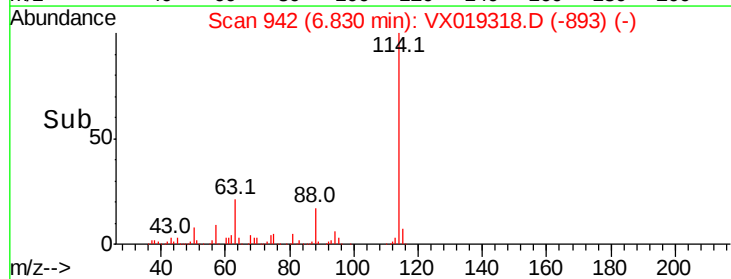
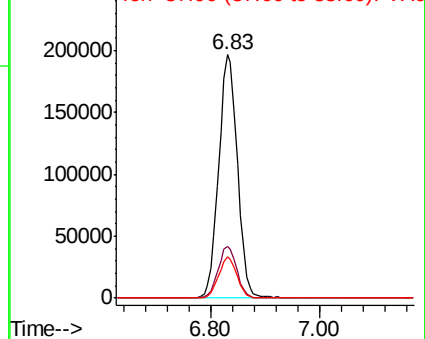
88 16.8 0.0 34.2

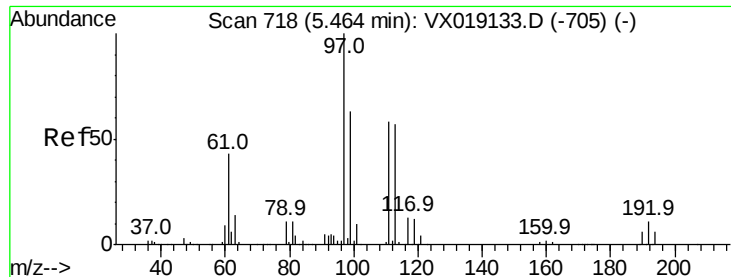


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

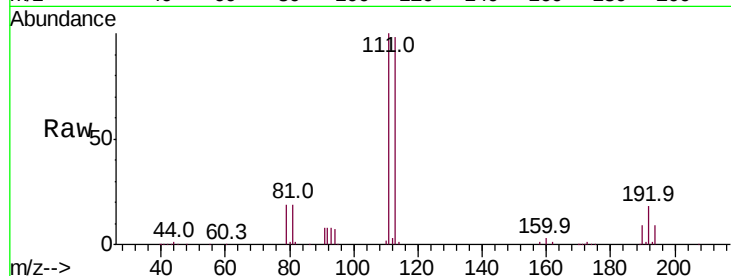




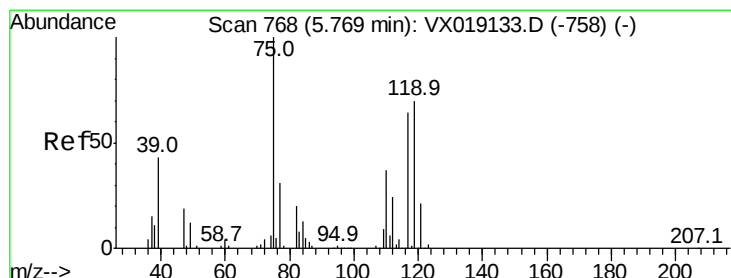
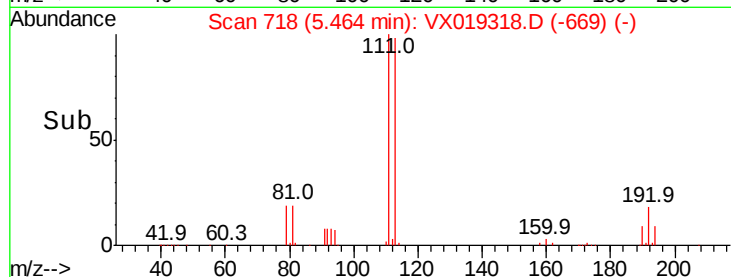
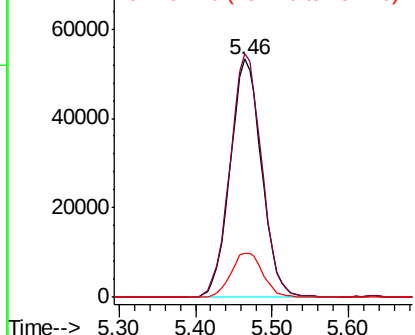
#35
 Dibromofluoromethane
 Concen: 51.222 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019318.D
 Acq: 05 Nov 2020 16:48

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.3	123.5
192	19.0	16.2	24.2

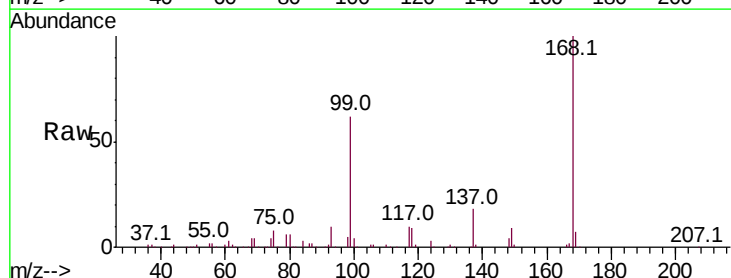


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

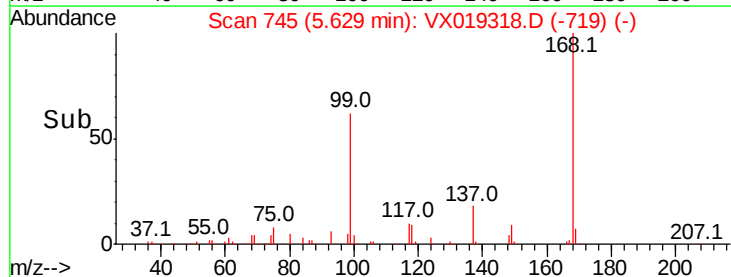
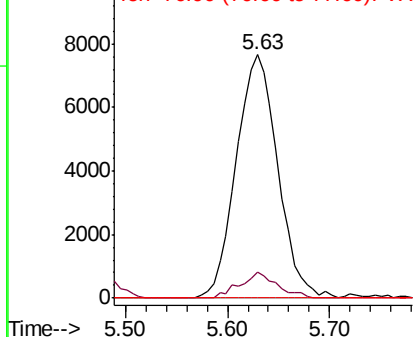


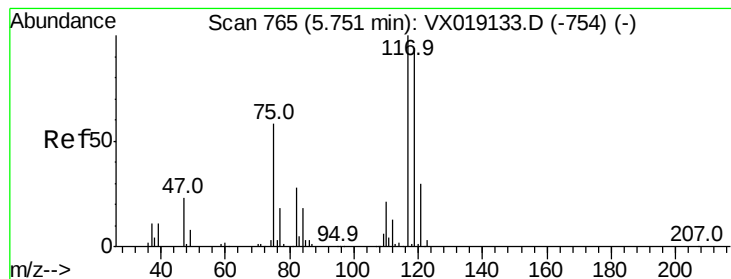
#36
 1,1-Dichloropropene
 Concen: 4.987 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019318.D
 Acq: 05 Nov 2020 16:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.3	54.9#
77	0.0	24.9	37.3#



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





#38

Carbon Tetrachloride

Concen: 6.182 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

ClientSampleId :

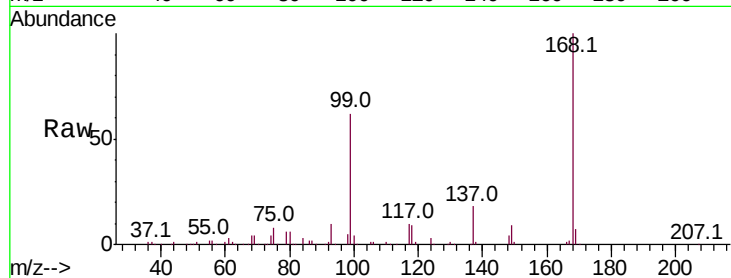
Tot Ion:117 Resp: 27366

Ion Ratio Lower Upper

117 100

119 4.9 75.0 112.6#

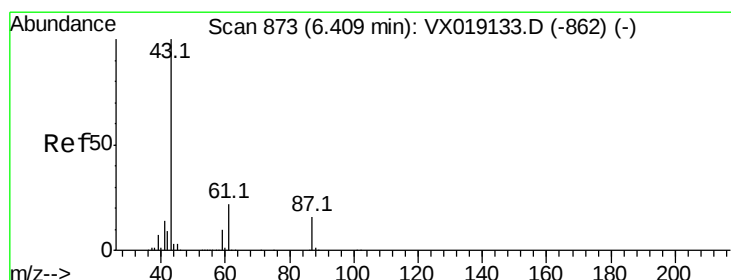
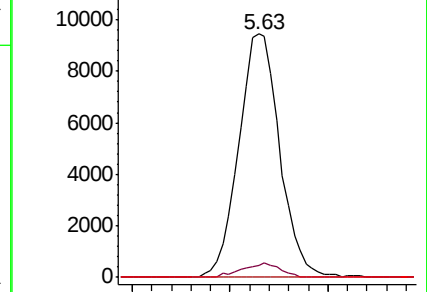
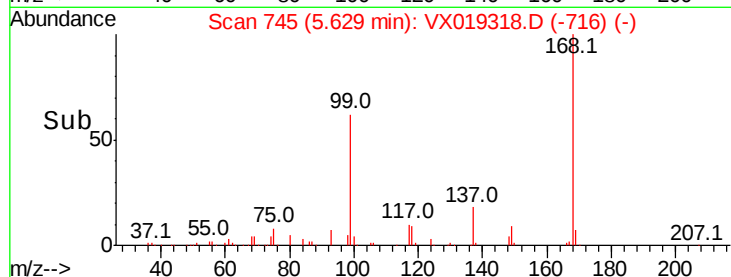
121 0.0 23.9 35.9#



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: 11.393 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

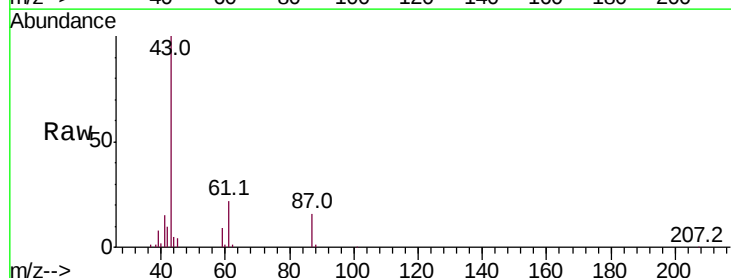
Tgt Ion: 43 Resp: 76920

Ion Ratio Lower Upper

43 100

61 22.0 17.8 26.6

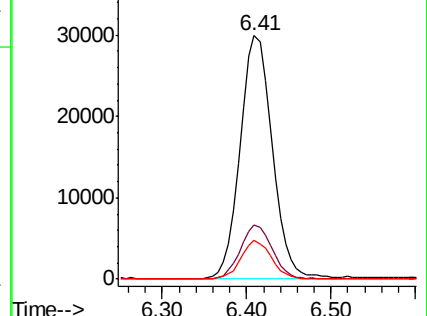
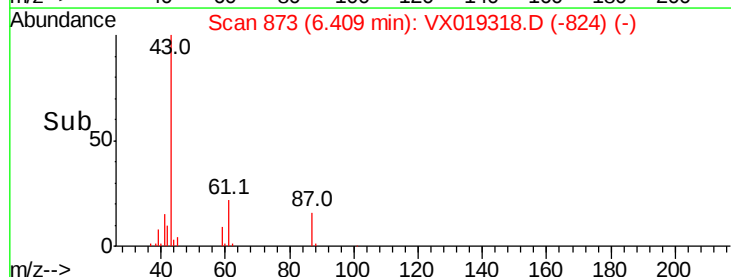
87 15.1 12.6 19.0

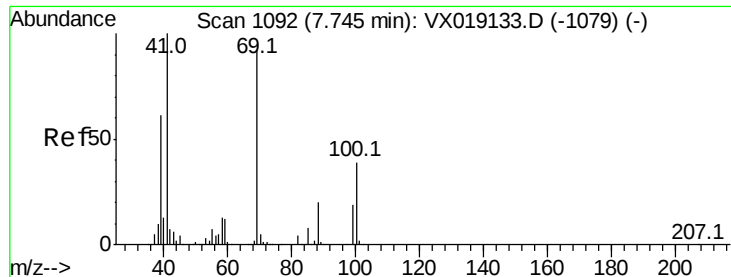


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

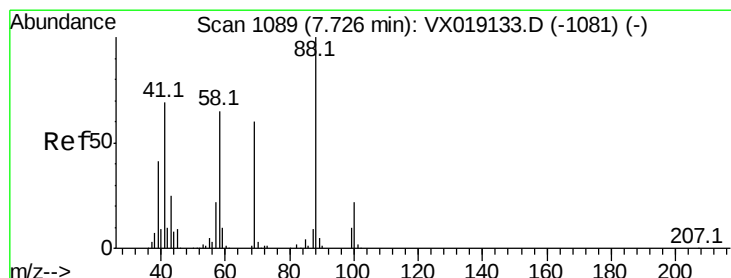
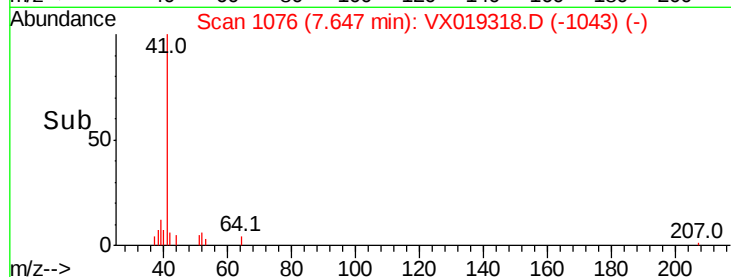
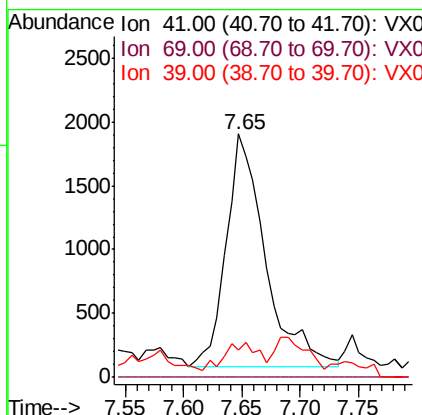
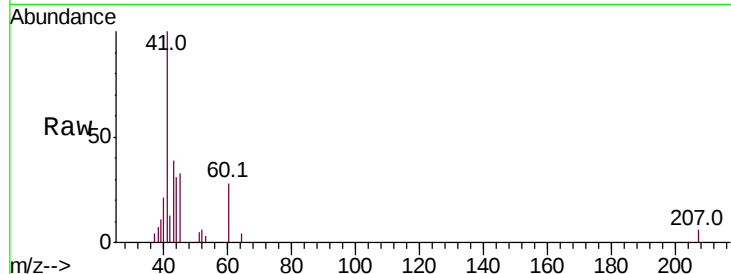




#48
Methvl methacrylate
Concen: 1.313 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

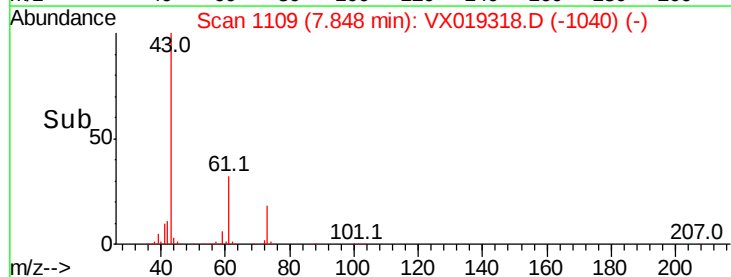
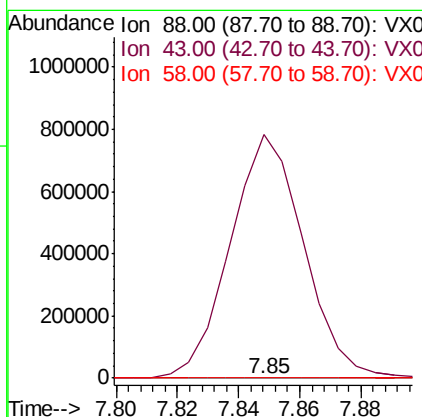
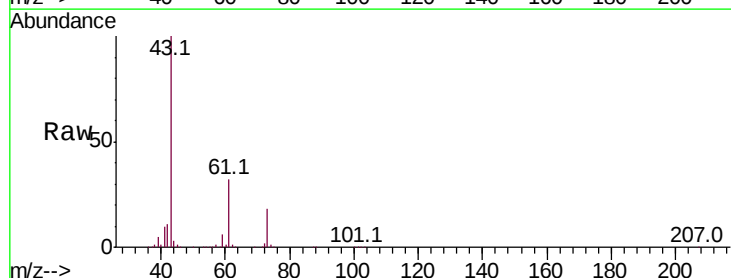
Instrument :
MSVOA_X
ClientSampleId :

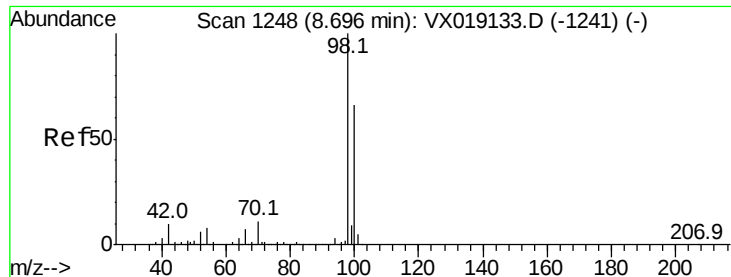
Tot Ion: 41 Resp: 4266
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.971 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.12 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

Tgt Ion: 88 Resp: 287
Ion Ratio Lower Upper
88 100
43 457412.2 23.0 34.6#
58 2106.6 52.2 78.2#

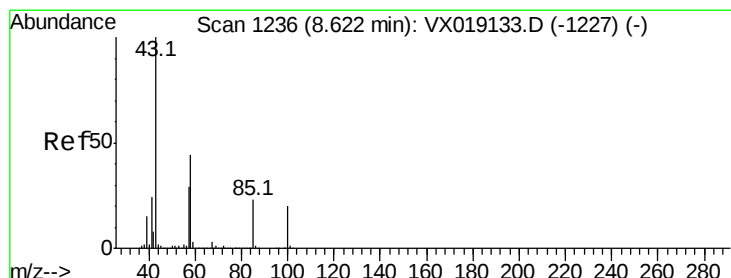
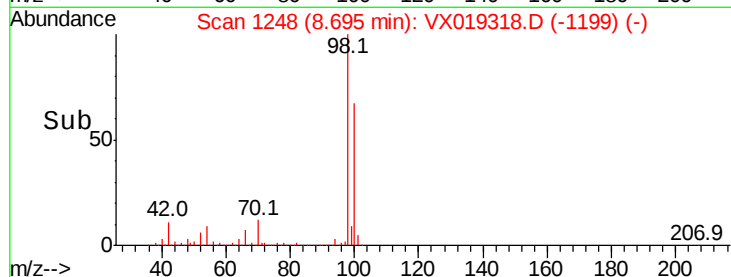
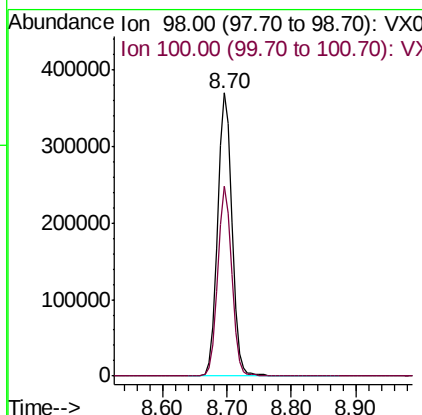
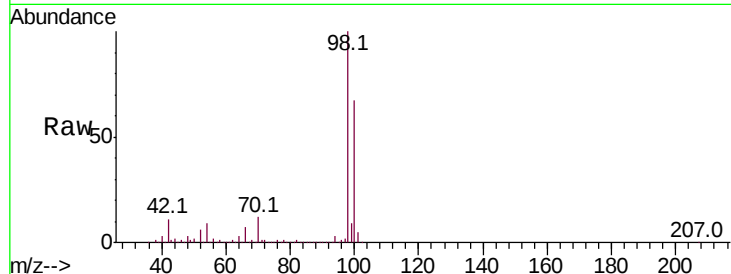




#50
Toluene-d8
Concen: 52.692 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

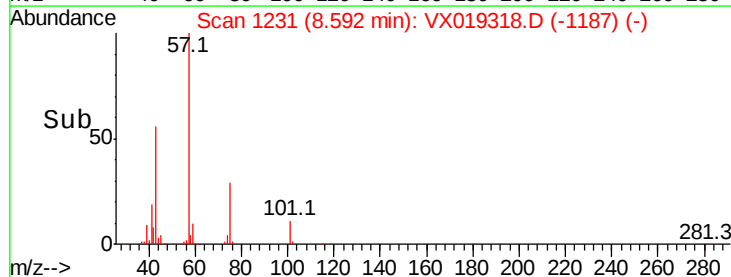
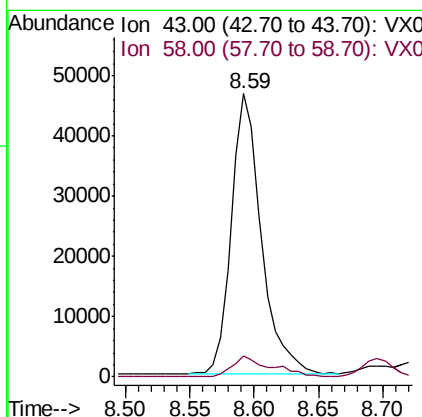
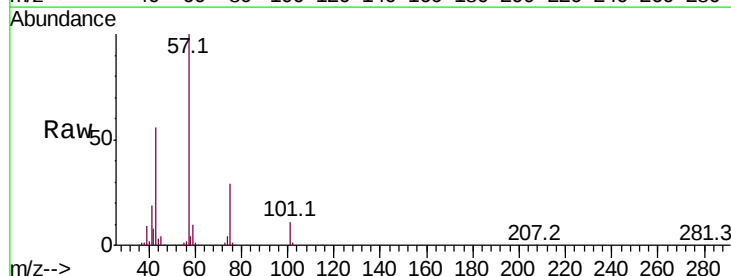
Instrument :
MSVOA_X
ClientSampleId :

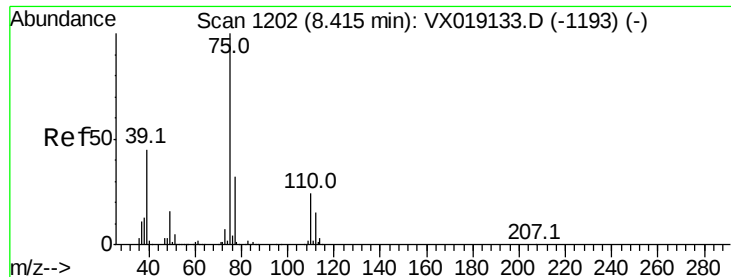
Tot Ion: 98 Resp: 586783
Ion Ratio Lower Upper
98 100
100 65.5 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 19.389 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019318.D
Acq: 05 Nov 2020 16:48

Tgt Ion: 43 Resp: 75240
Ion Ratio Lower Upper
43 100
58 9.8 35.0 52.4#



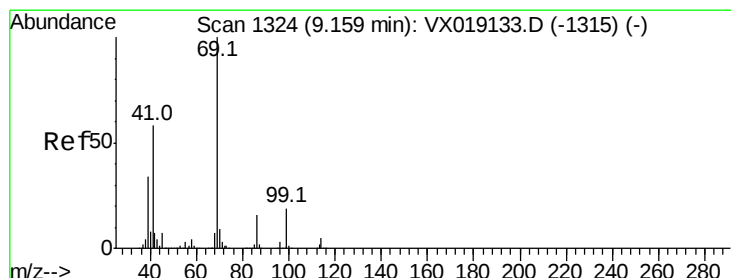
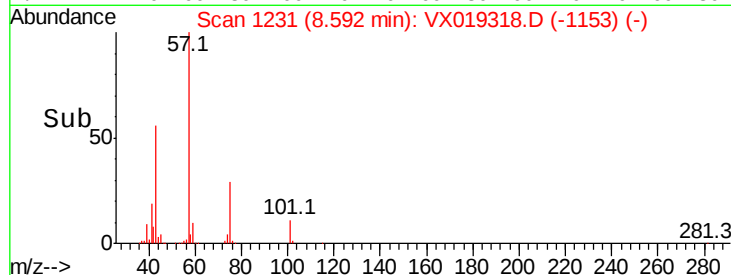
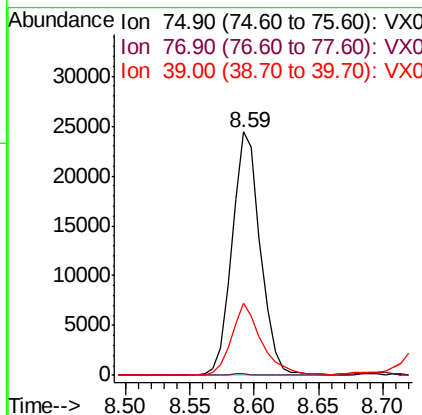
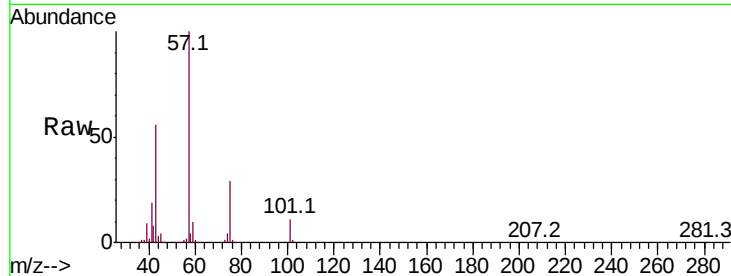


#54

cis-1,3-Dichloropropene
 Concen: 7.075 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019318.D
 Acq: 05 Nov 2020 16:48

Instrument :
 MSVOA_X
 ClientSampleId :

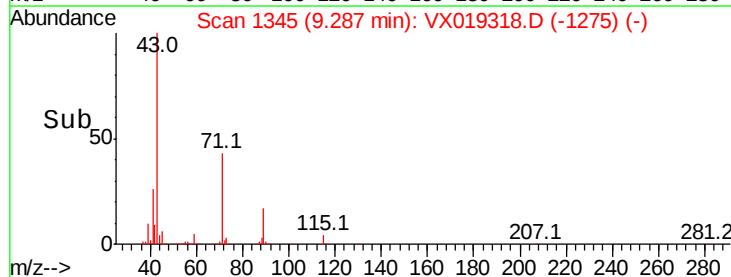
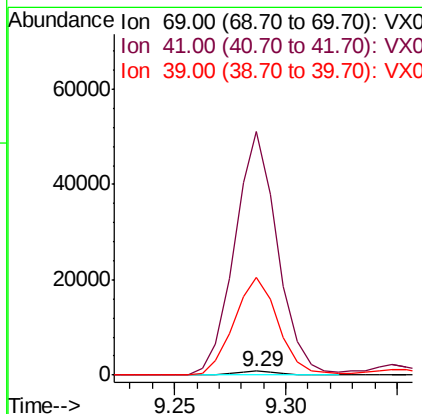
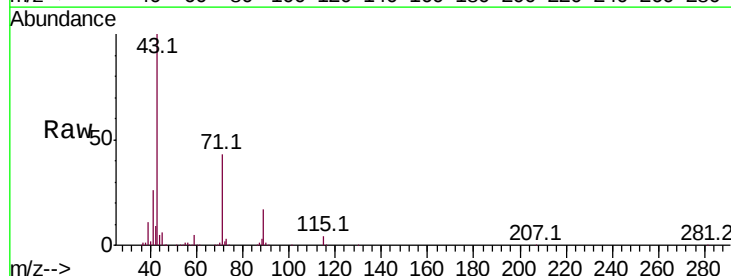
Tot Ion: 75 Resp: 37352
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.5 38.3#
 39 29.4 36.2 54.2#

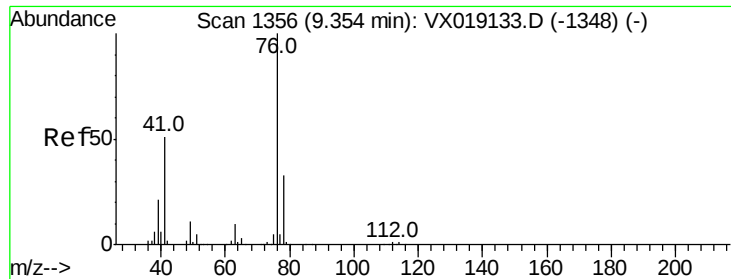


#56

Ethyl methacrylate
 Concen: 0.254 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX019318.D
 Acq: 05 Nov 2020 16:48

Tgt Ion: 69 Resp: 1201
 Ion Ratio Lower Upper
 69 100
 41 5690.3 46.5 69.7#
 39 2385.4 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.260 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

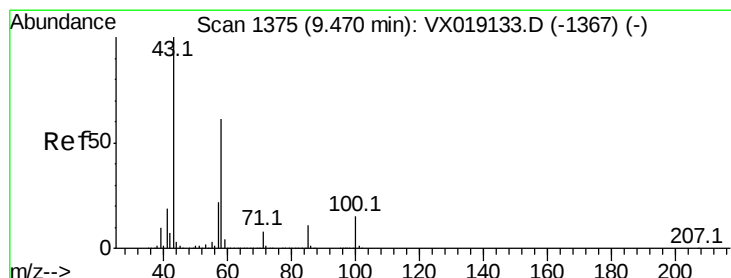
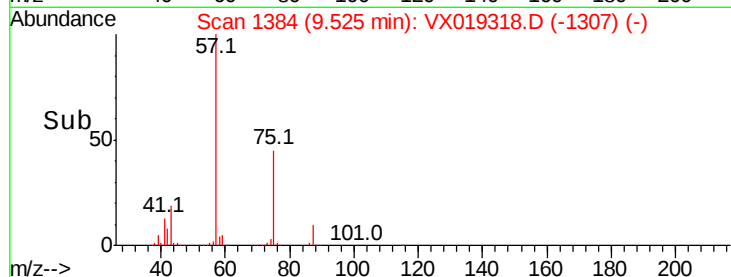
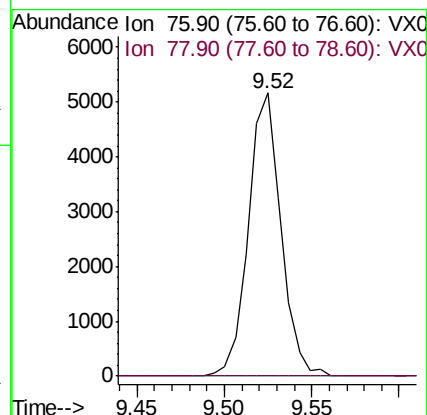
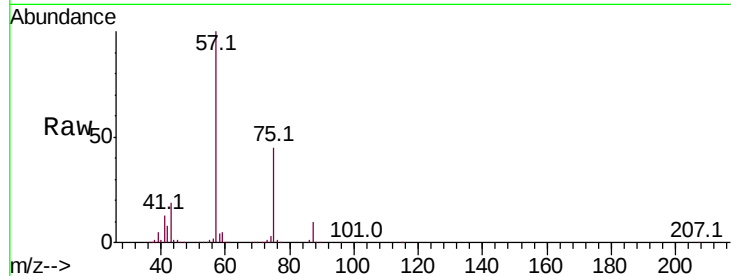
ClientSampleId :

Tot Ion: 76 Resp: 6658

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 24.609 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019318.D

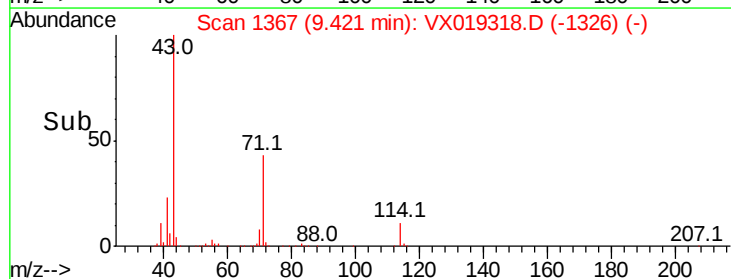
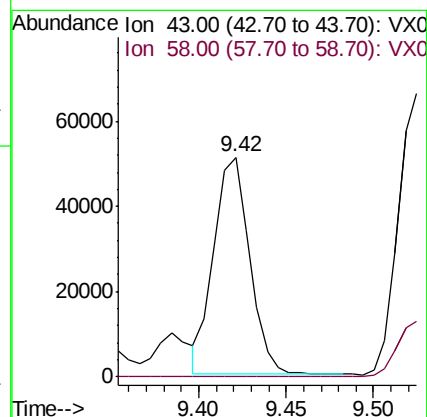
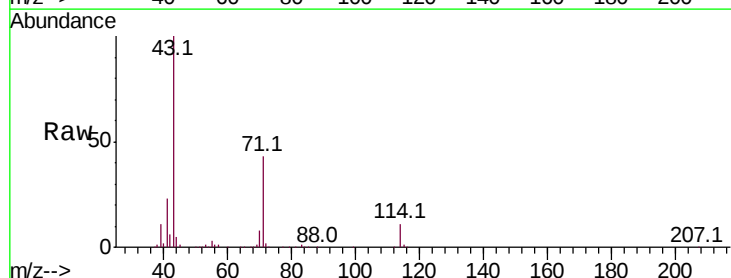
Acq: 05 Nov 2020 16:48

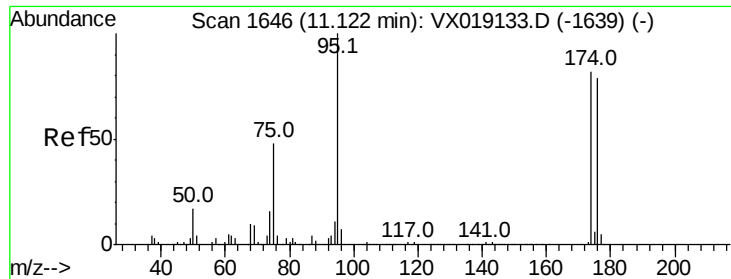
Tgt Ion: 43 Resp: 72692

Ion Ratio Lower Upper

43 100

58 0.0 30.5 91.5#





#62

4-Bromofluorobenzene

Concen: 51.965 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

ClientSampled :

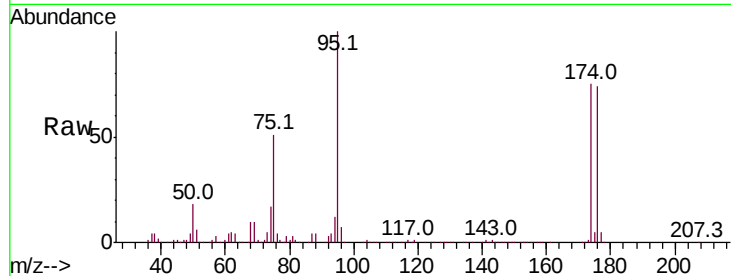
Tot Ion: 95 Resp: 219151

Ion Ratio Lower Upper

95 100

174 74.4 0.0 156.0

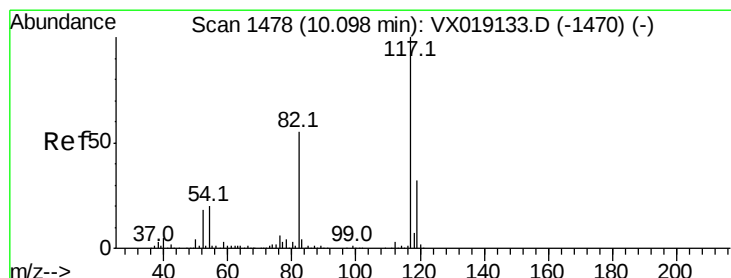
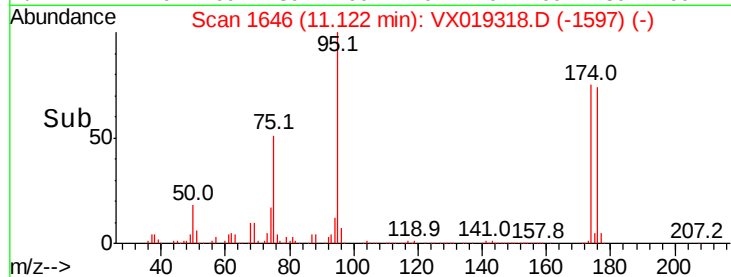
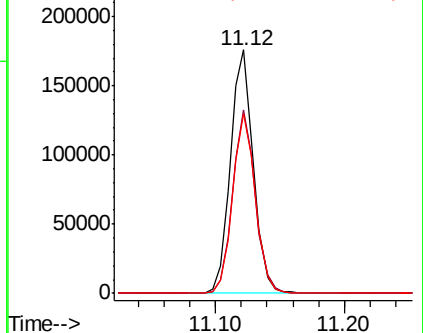
176 73.4 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

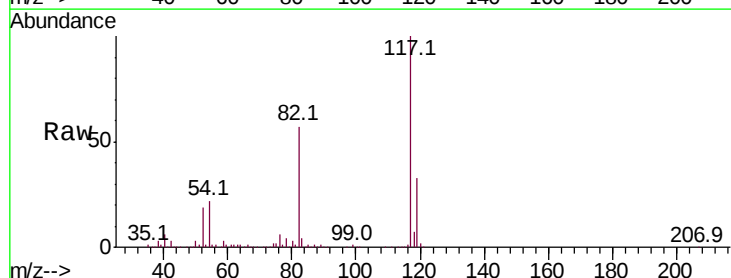
Tgt Ion: 117 Resp: 451352

Ion Ratio Lower Upper

117 100

82 56.7 43.6 65.4

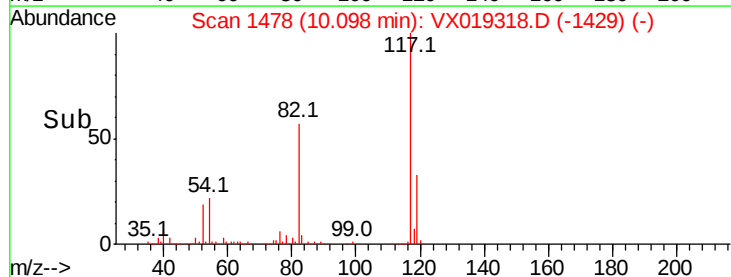
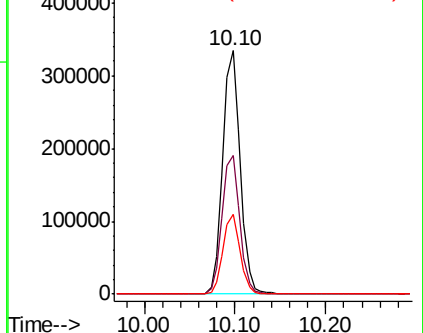
119 32.5 25.5 38.3

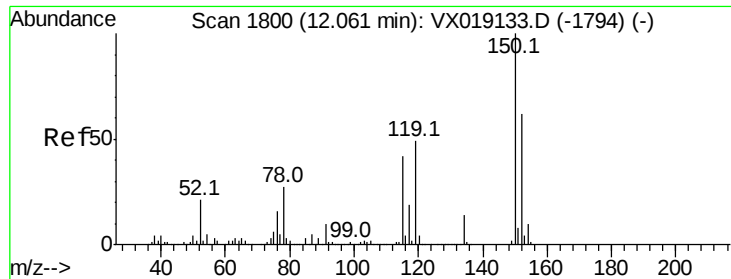


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

ClientSampleId :

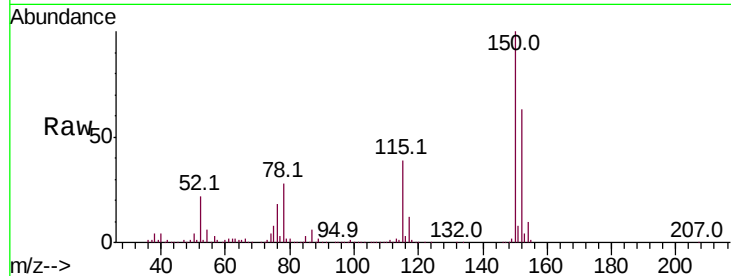
Tot Ion:152 Resp: 222255

Ion Ratio Lower Upper

152 100

115 60.3 41.9 125.7

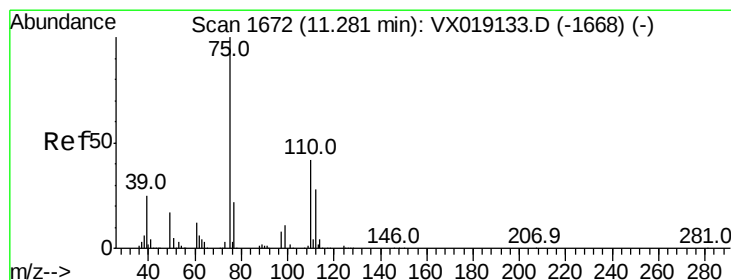
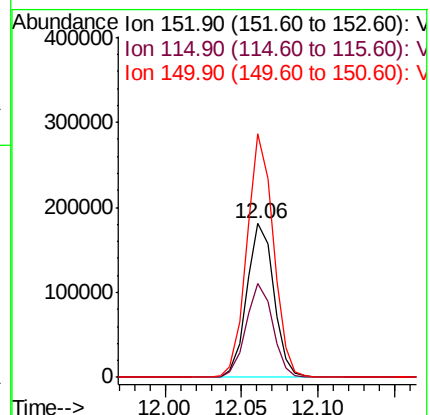
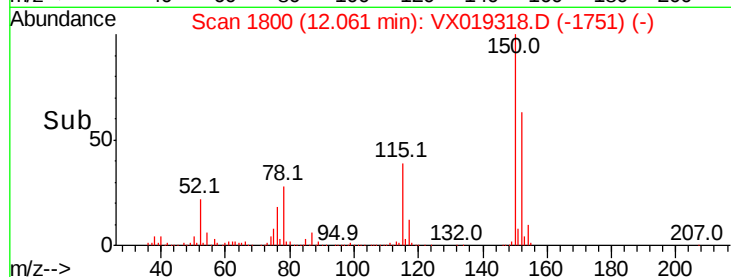
150 155.4 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.075 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019318.D

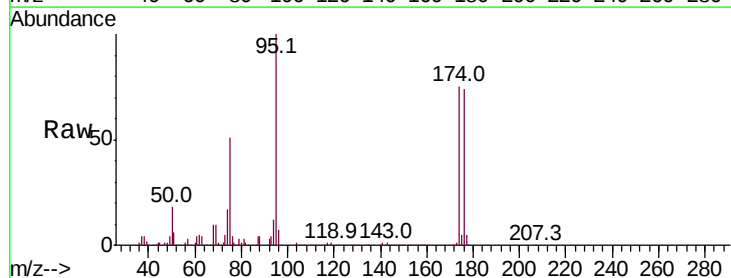
Acq: 05 Nov 2020 16:48

Tgt Ion: 75 Resp: 115070

Ion Ratio Lower Upper

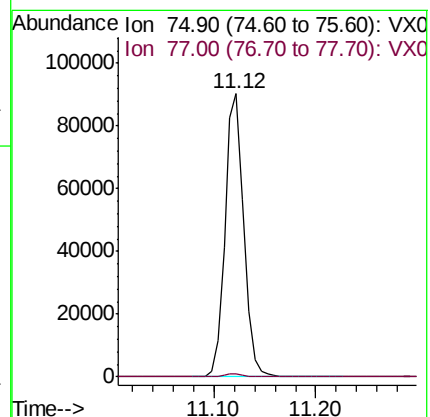
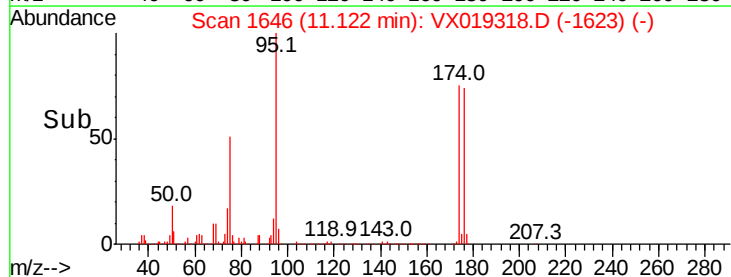
75 100

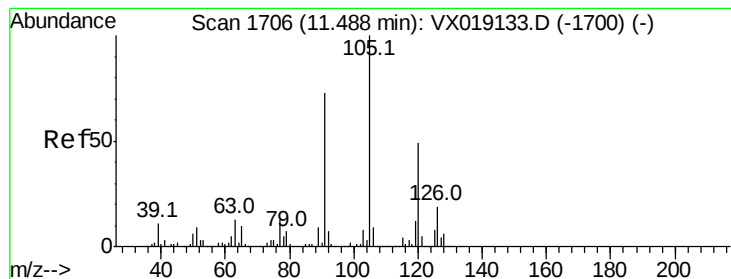
77 1.2 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.848 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

Instrument :

MSVOA_X

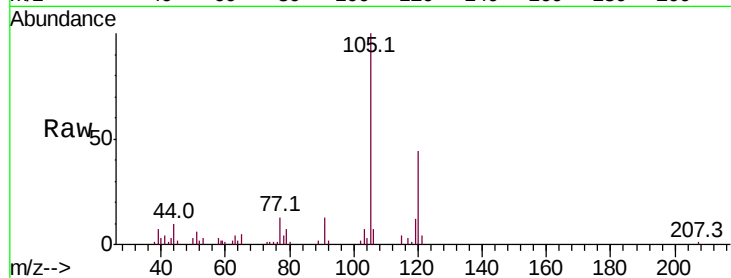
ClientSampleId :

Tot Ion:105 Resp: 11276

Ion Ratio Lower Upper

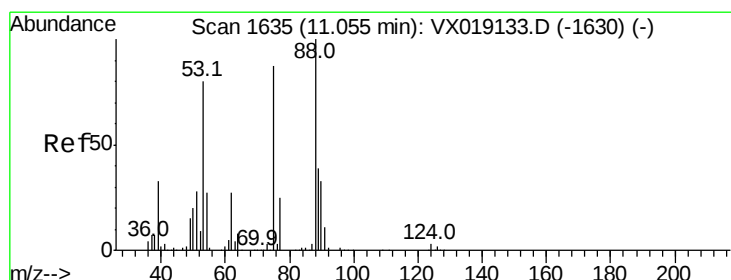
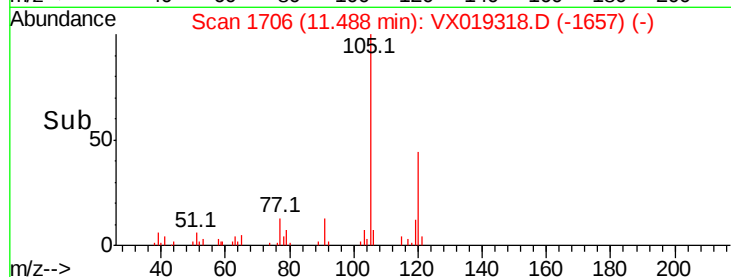
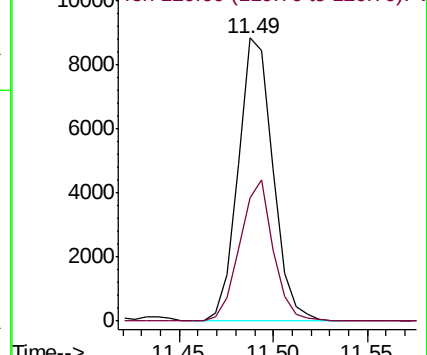
105 100

120 47.8 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.021 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019318.D

Acq: 05 Nov 2020 16:48

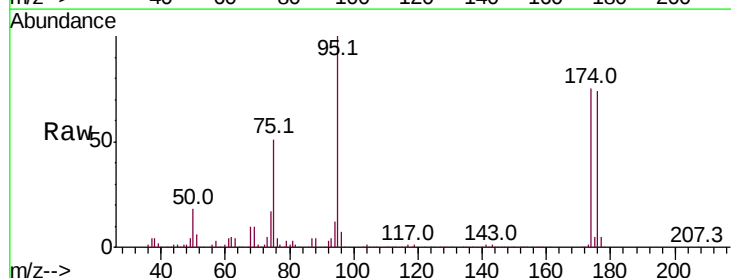
Tgt Ion: 75 Resp: 115070

Ion Ratio Lower Upper

75 100

53 0.1 73.3 109.9#

89 0.0 38.2 57.2#



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

