

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019322.D
 Acq On : 05 Nov 2020 18:18
 Operator : JC/MD
 Sample : PB132824ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 01:09:54 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	5.64	168	268711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	476787	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	458953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	227884	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	196350	56.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.32%	
35) Dibromofluoromethane	5.46	113	153580	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
50) Toluene-d8	8.70	98	598561	53.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.04%	
62) 4-Bromofluorobenzene	11.12	95	224695	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	

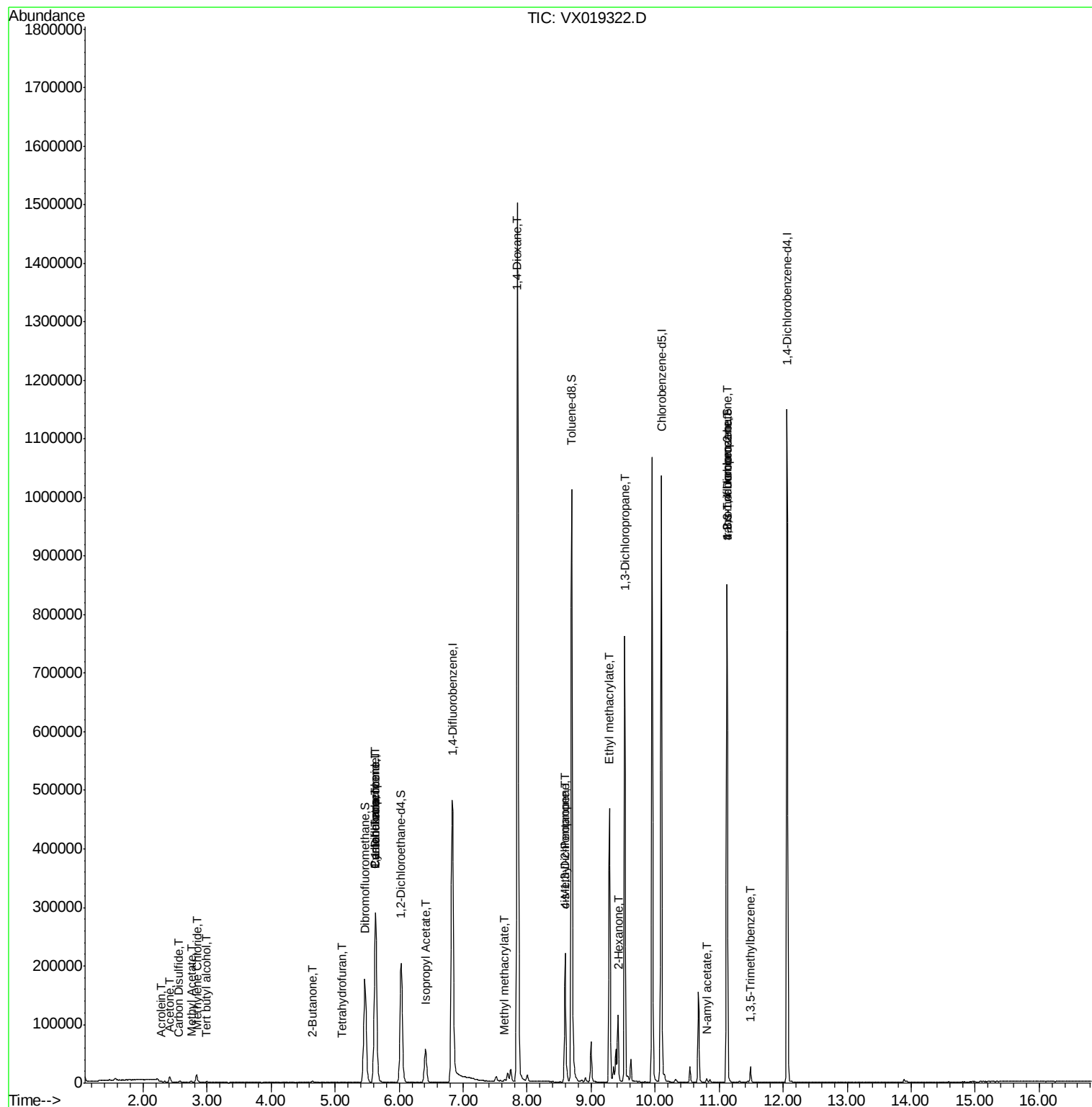
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.99	59	905	1.322	ug/l #	72
13) Acrolein	2.28	56	78	5.897	ug/l #	1
16) Acetone	2.42	43	9278	7.761	ug/l	93
17) Carbon Disulfide	2.56	76	280	0.797	ug/l #	75
18) Methyl Acetate	2.75	43	3032	1.043	ug/l	98
20) Methylene Chloride	2.83	84	6469	2.155	ug/l	94
25) 2-Butanone	4.65	43	1363	0.723	ug/l #	75
29) Tetrahydrofuran	5.10	42	1128	0.950	ug/l #	57
31) Cyclohexane	5.63	56	5883	1.343	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22401	5.088	ug/l #	49
38) Carbon Tetrachloride	5.63	117	28594	6.372	ug/l #	16
43) Isopropyl Acetate	6.41	43	76799	11.220	ug/l	98
48) Methyl methacrylate	7.65	41	3945	1.197	ug/l #	9
49) 1,4-Dioxane	7.85	88	272	3.713	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	75494	19.190	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	37795	7.061	ug/l #	61
56) Ethyl methacrylate	9.29	69	1271	0.265	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6658	1.243	ug/l #	42
59) 2-Hexanone	9.42	43	72381	24.170	ug/l #	20
74) N-amyl acetate	10.80	43	3128	0.530	ug/l #	45
76) 1,2,3-Trichloropropane	11.12	75	117710	25.016	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	11632	0.854	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	117710	65.868	ug/l #	12

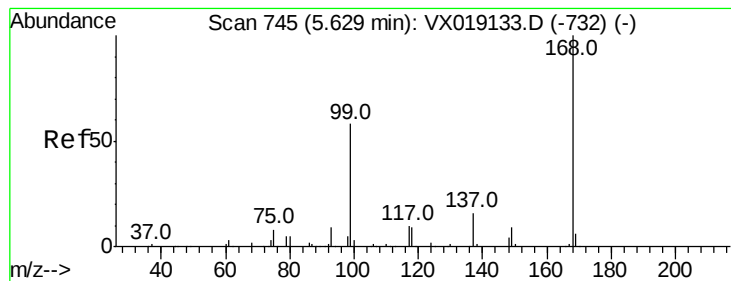
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Nov 06 01:09:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

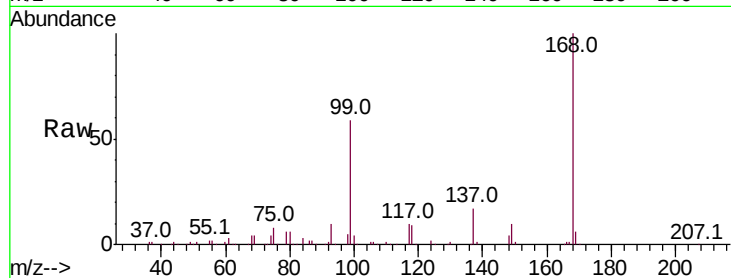
ClientSampled :

Tot Ion:168 Resp: 268711

Ion Ratio Lower Upper

168 100

99 59.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

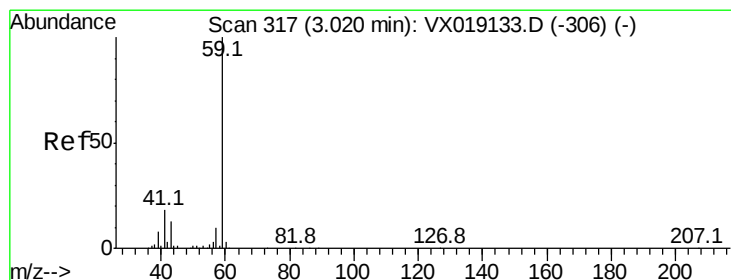
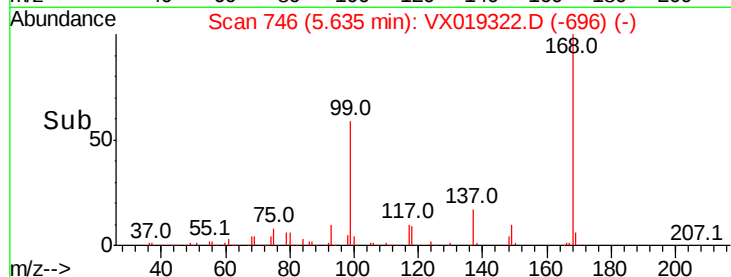
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.322 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX019322.D

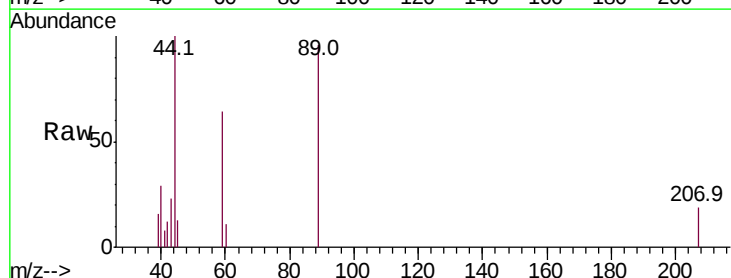
Acq: 05 Nov 2020 18:18

Tgt Ion: 59 Resp: 905

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

2.99

400

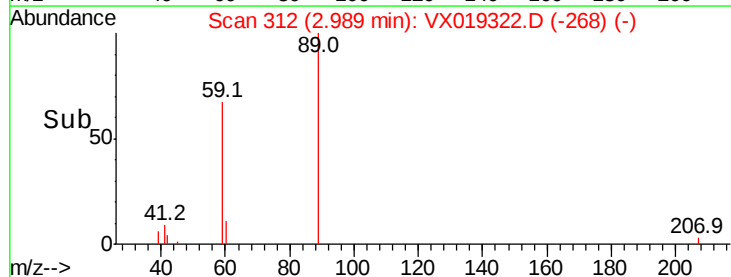
300

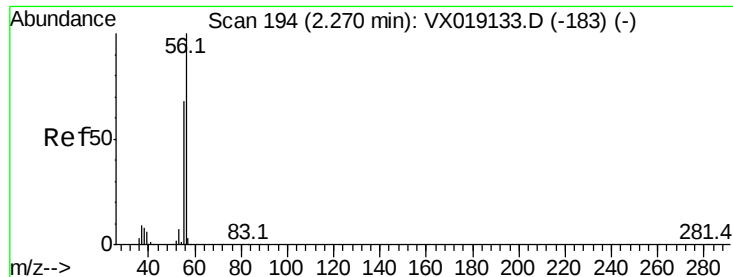
200

100

0

Time-->





#13

Acrolein

Concen: 5.897 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

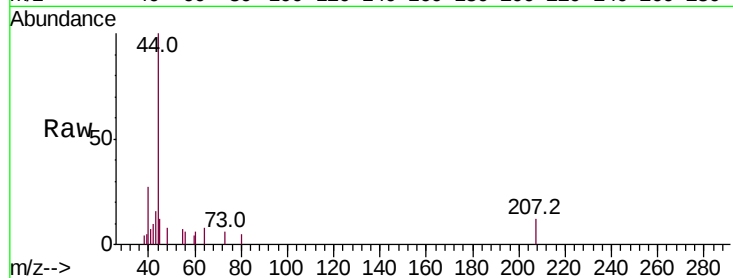
ClientSampleId :

Tot Ion: 56 Resp: 78

Ion Ratio Lower Upper

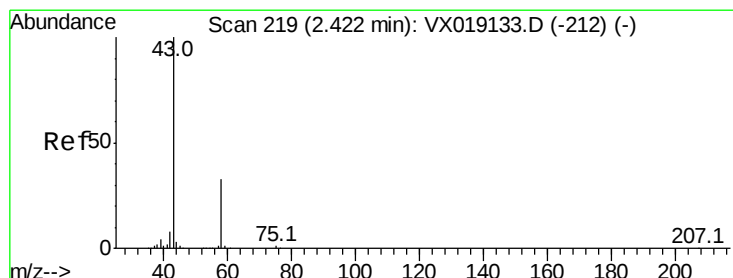
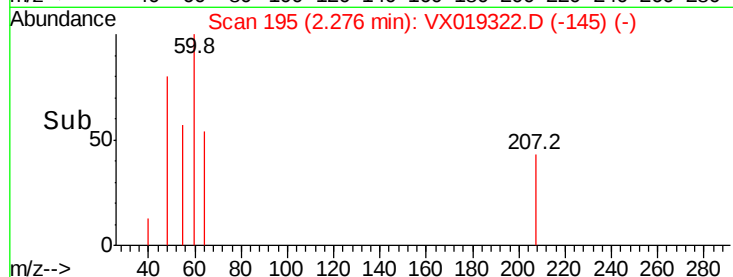
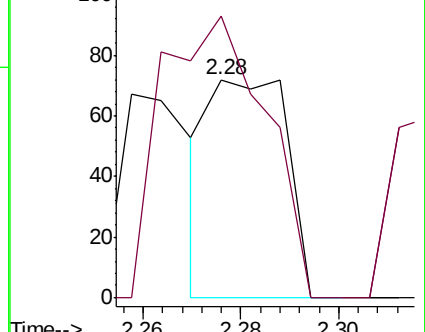
56 100

55 175.6 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 7.761 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019322.D

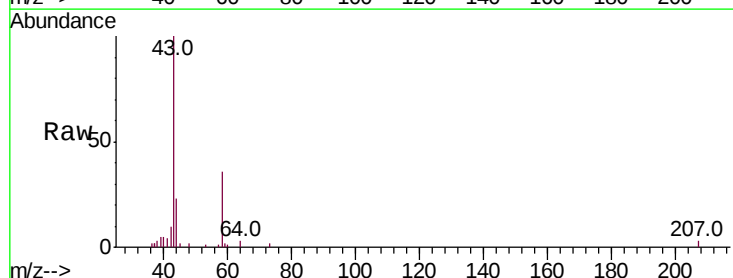
Acq: 05 Nov 2020 18:18

Tgt Ion: 43 Resp: 9278

Ion Ratio Lower Upper

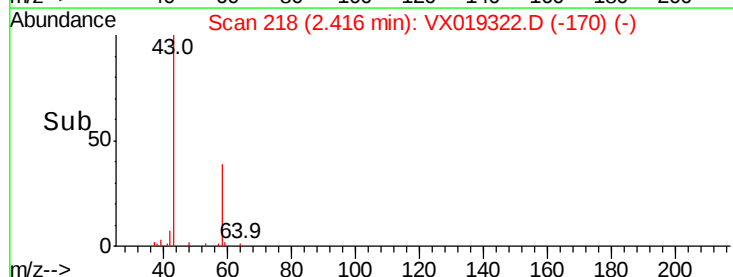
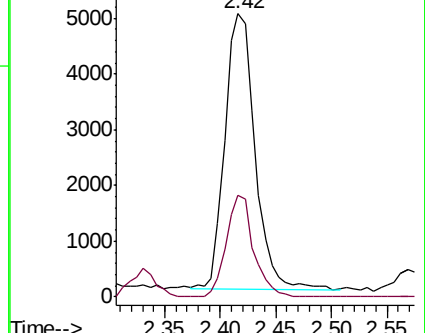
43 100

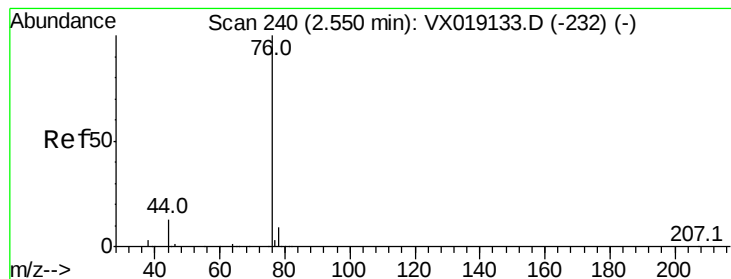
58 36.8 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.797 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

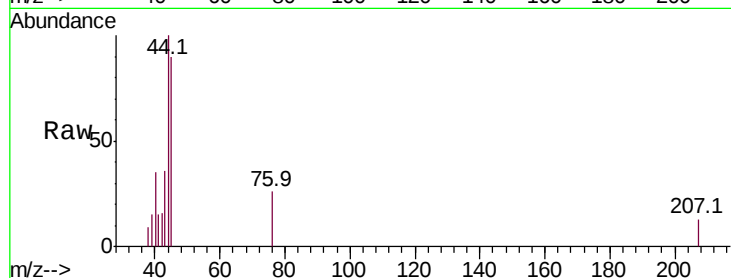
ClientSampled :

Tot Ion: 76 Resp: 280

Ion Ratio Lower Upper

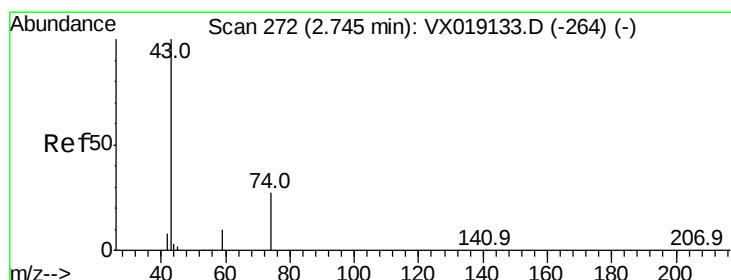
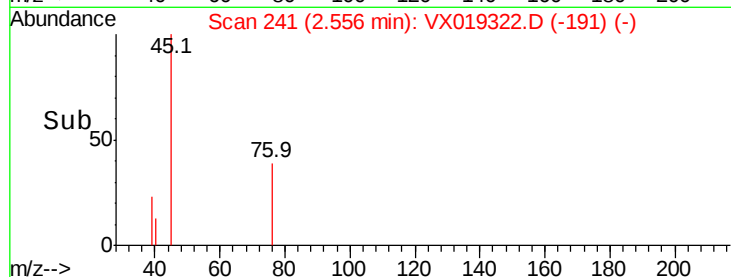
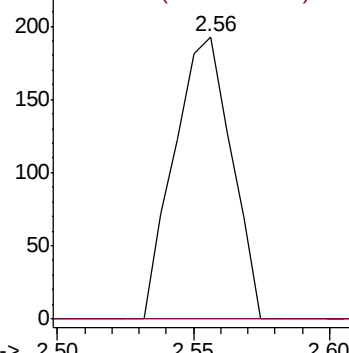
76 100

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: 1.043 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019322.D

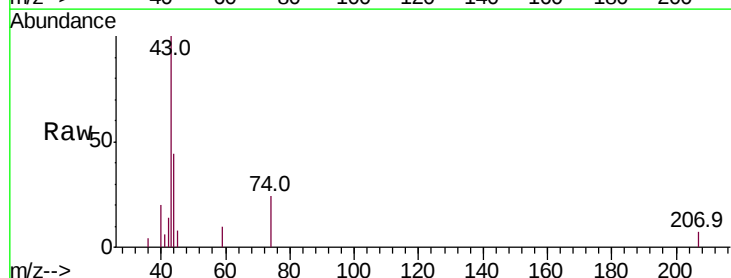
Acq: 05 Nov 2020 18:18

Tgt Ion: 43 Resp: 3032

Ion Ratio Lower Upper

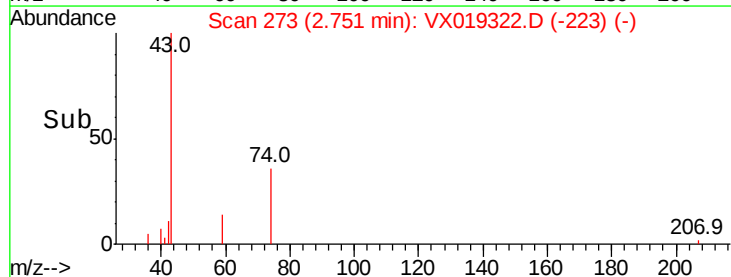
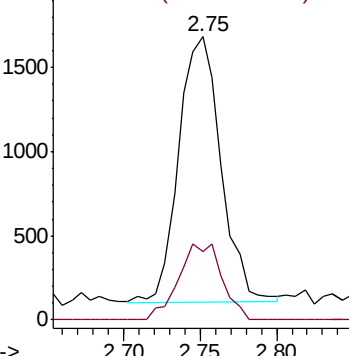
43 100

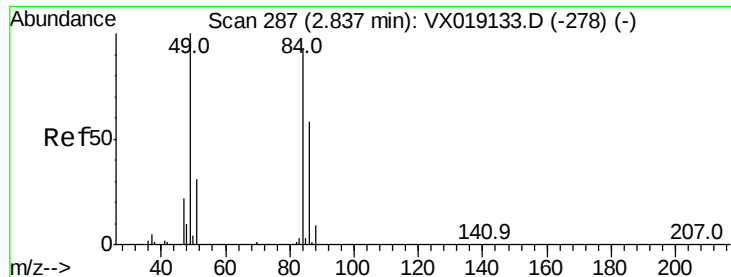
74 29.3 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

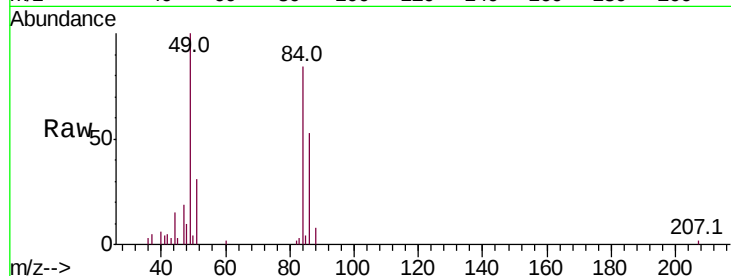




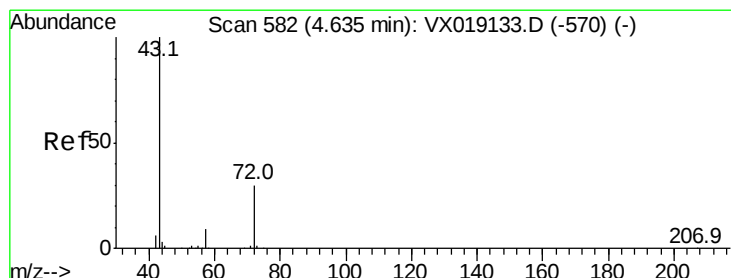
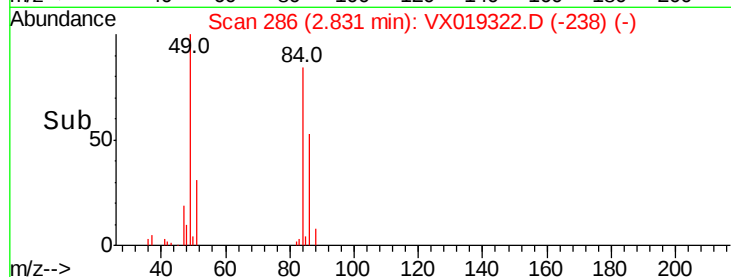
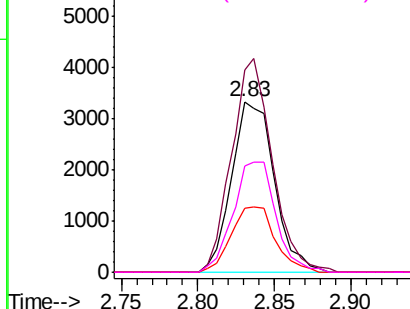
#20
Methvlene Chloride
Concen: 2.155 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX019322.D
Acq: 05 Nov 2020 18:18

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 6469
Ion Ratio Lower Upper
84 100
49 118.6 86.8 130.2
51 37.2 27.3 40.9
86 62.4 50.6 76.0

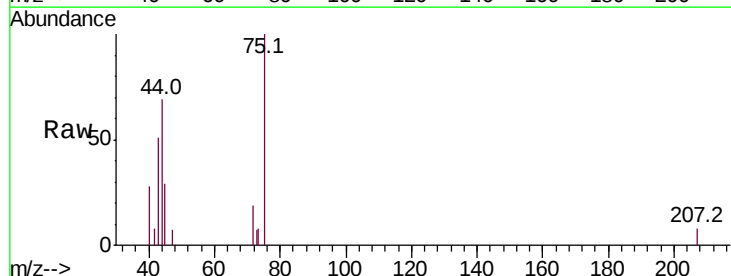


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

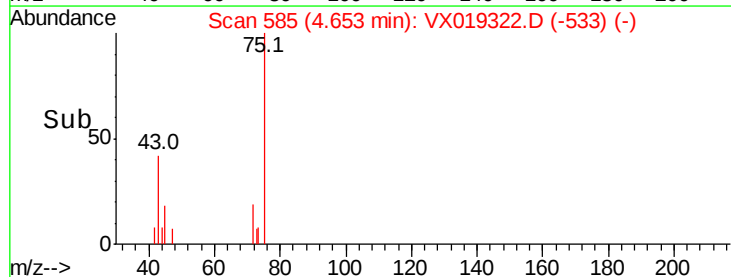
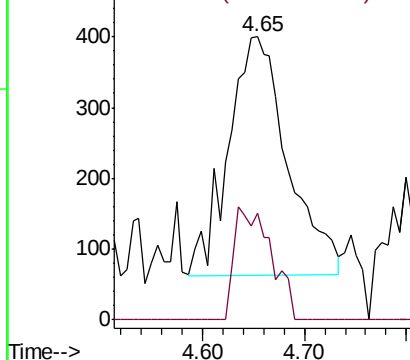


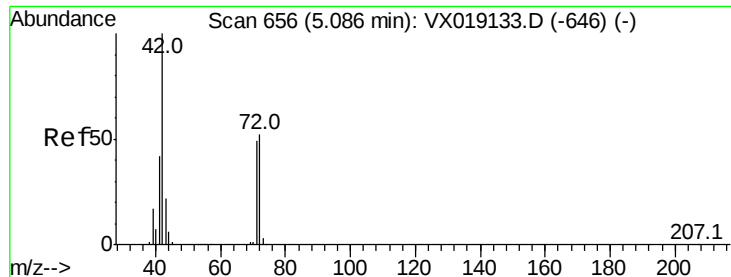
#25
2-Butanone
Concen: 0.723 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX019322.D
Acq: 05 Nov 2020 18:18

Tgt Ion: 43 Resp: 1363
Ion Ratio Lower Upper
43 100
72 44.6 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

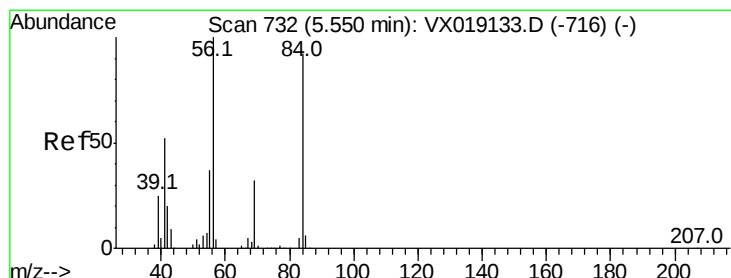
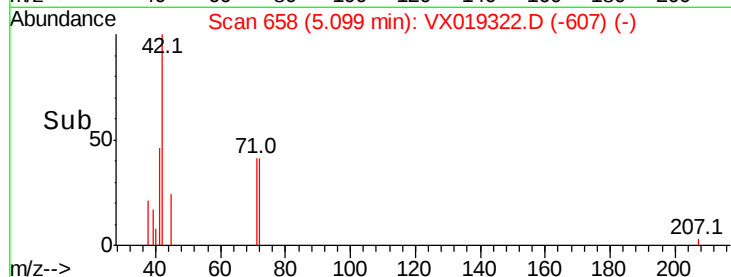
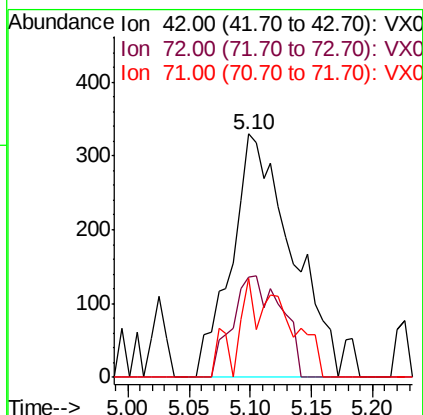
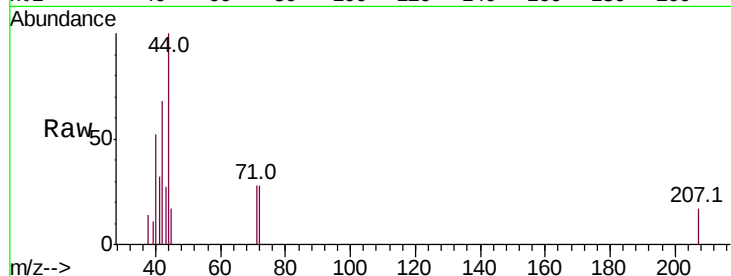




#29
Tetrahydrofuran
Concen: 0.950 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX019322.D
Acq: 05 Nov 2020 18:18

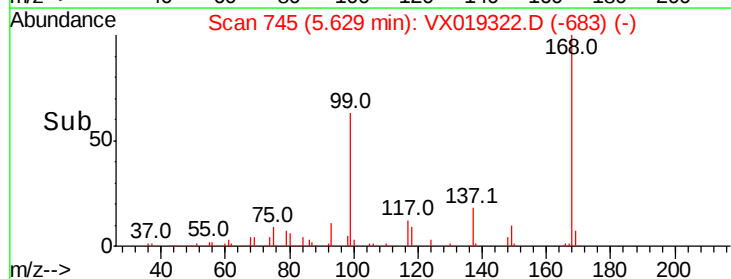
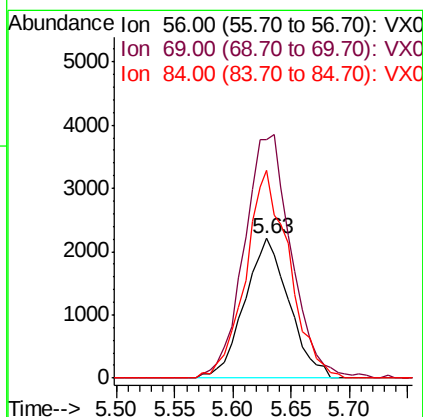
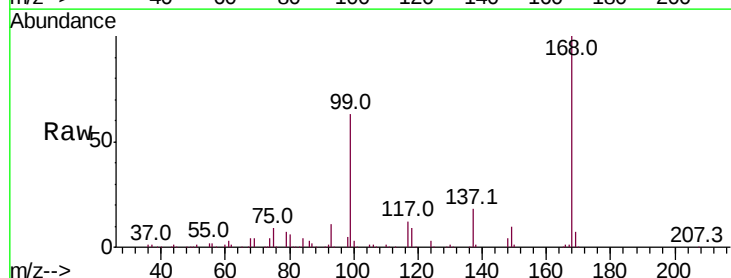
Instrument :
MSVOA_X
ClientSampleId :

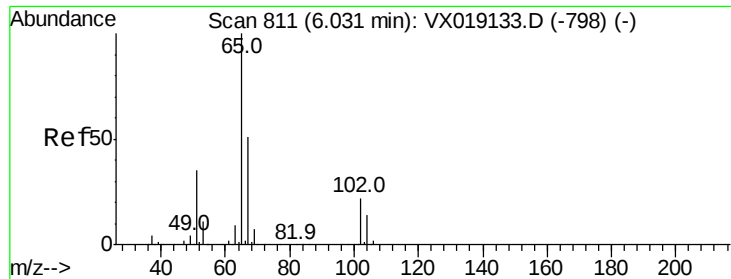
Tot Ion	Ratio	Lower	Upper
42	100		
72	33.9	42.6	63.8#
71	9.0	39.7	59.5#



#31
Cyclohexane
Concen: 1.343 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019322.D
Acq: 05 Nov 2020 18:18

Tgt Ion	Ratio	Lower	Upper
56	100		
69	170.1	25.9	38.9#
84	148.4	73.4	110.2#





#33

1,2-Dichloroethane-d4

Concen: 56.661 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

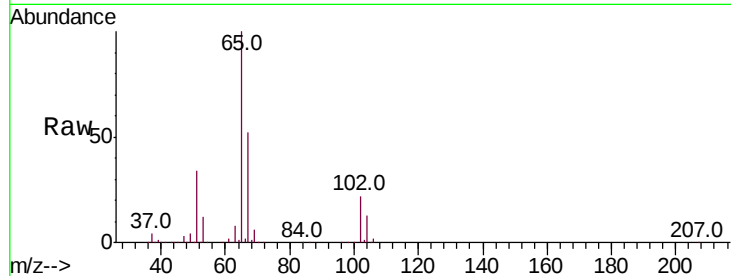
ClientSampleId :

Tot Ion: 65 Resp: 196350

Ion Ratio Lower Upper

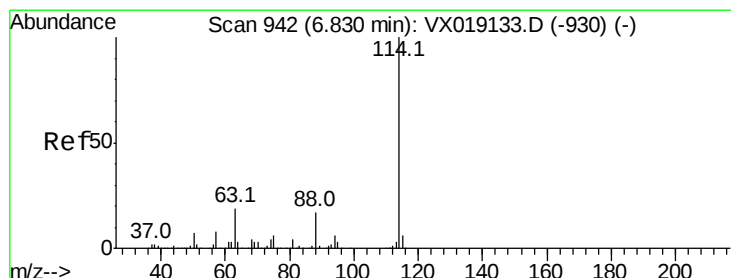
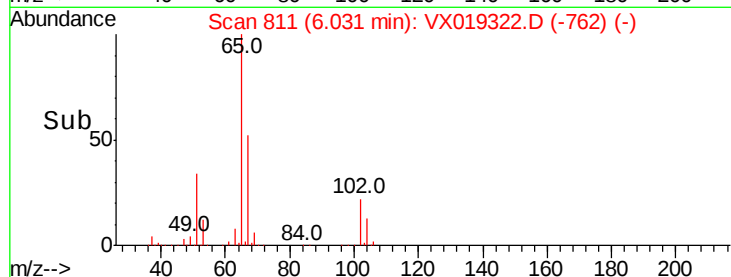
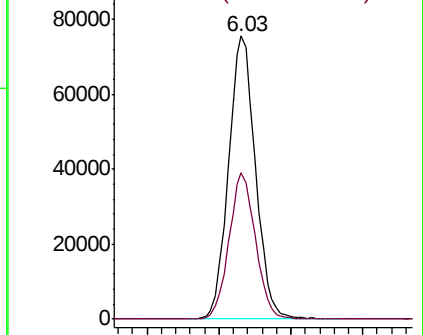
65 100

67 50.9 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: VX019322.D

Acq: 05 Nov 2020 18:18

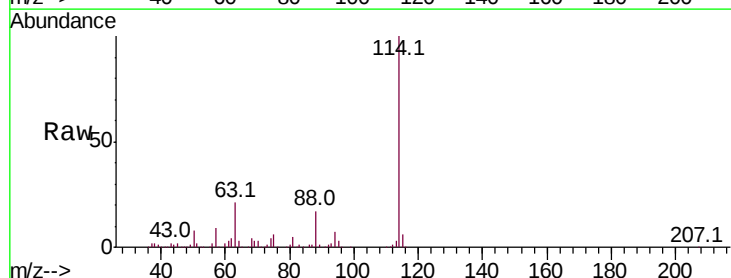
Tgt Ion: 114 Resp: 476787

Ion Ratio Lower Upper

114 100

63 21.5 0.0 38.8

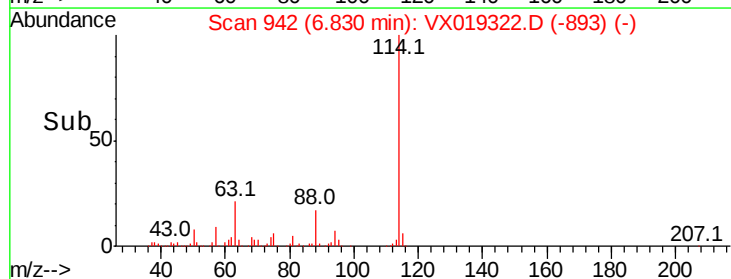
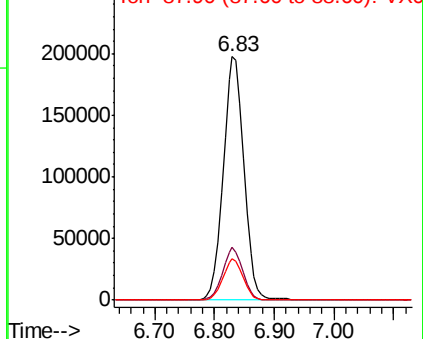
88 16.9 0.0 34.2

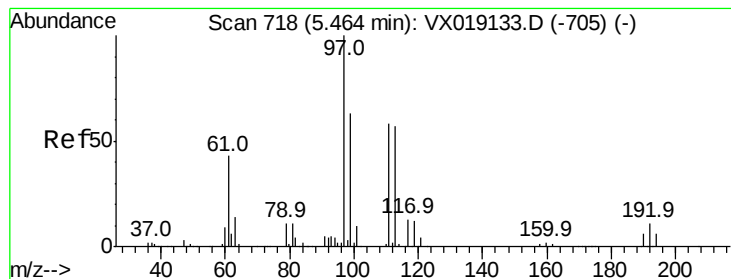


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.281 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

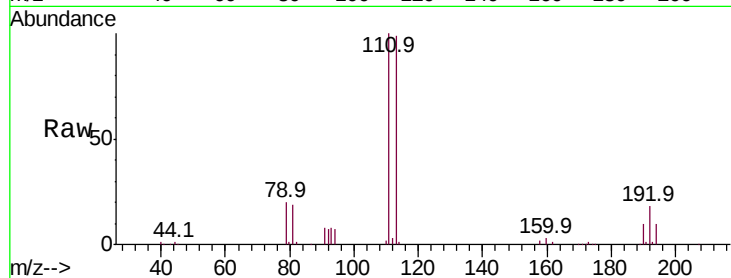
Tot Ion:113 Resp: 153580

Ion Ratio Lower Upper

113 100

111 102.8 82.3 123.5

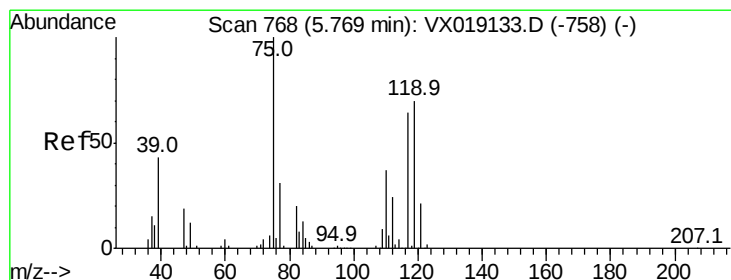
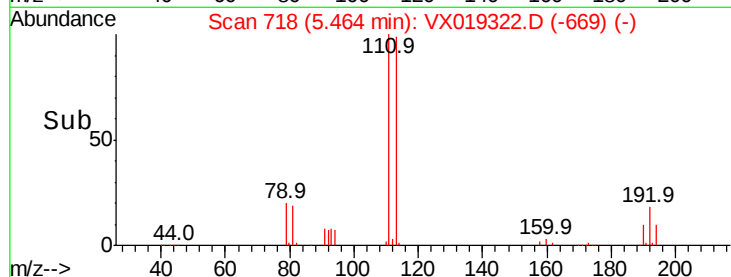
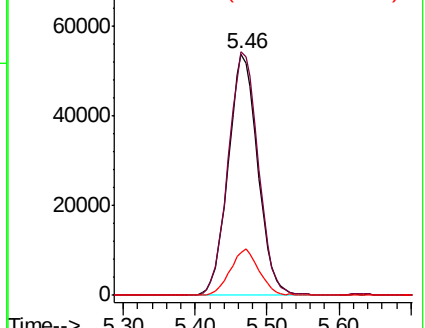
192 18.8 16.2 24.2



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: 5.088 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

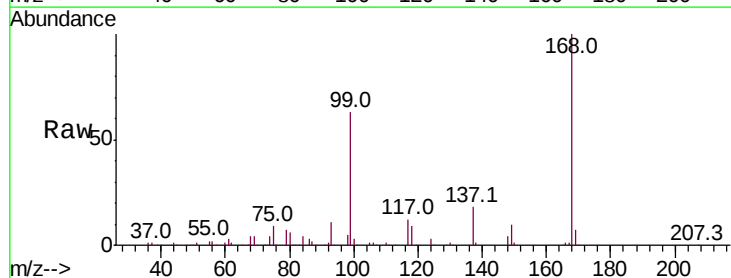
Tgt Ion: 75 Resp: 22401

Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.9#

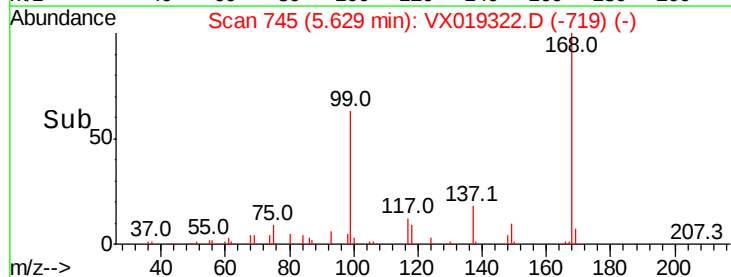
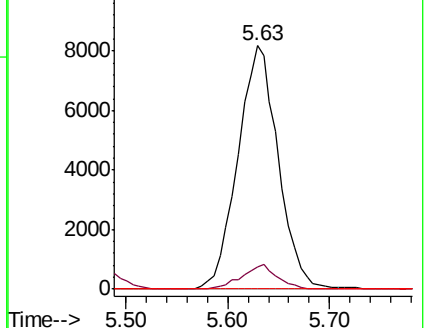
77 0.0 24.9 37.3#

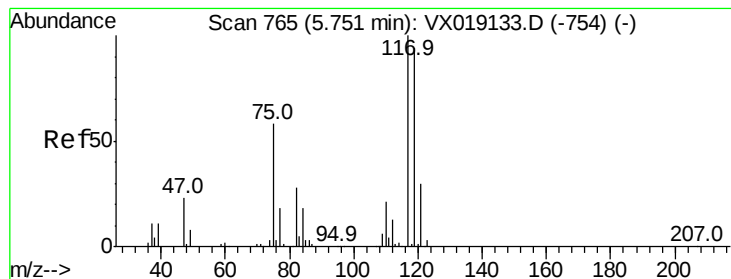


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.372 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

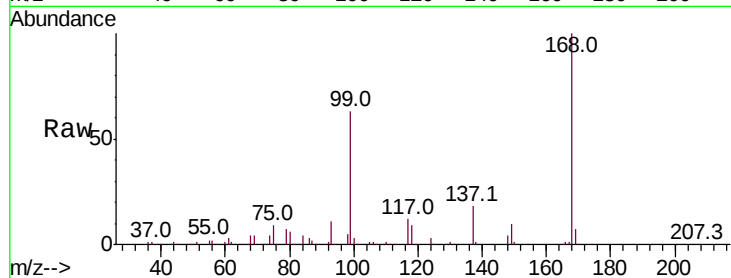
Tot Ion:117 Resp: 28594

Ion Ratio Lower Upper

117 100

119 3.4 75.0 112.6#

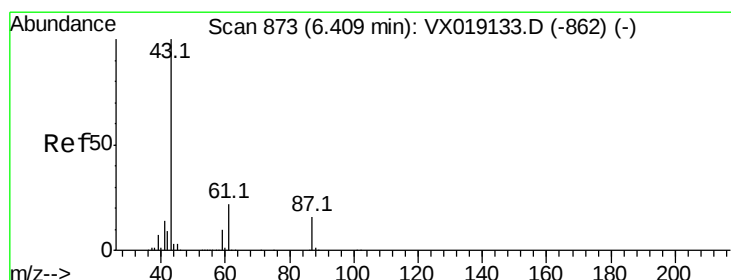
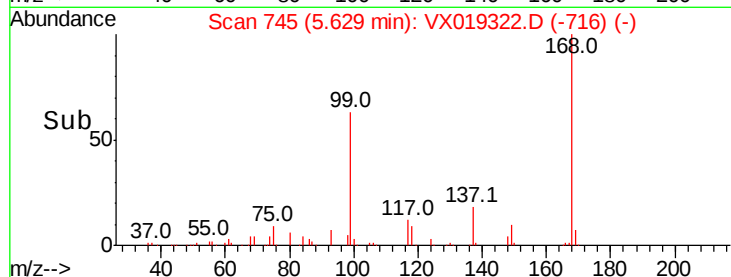
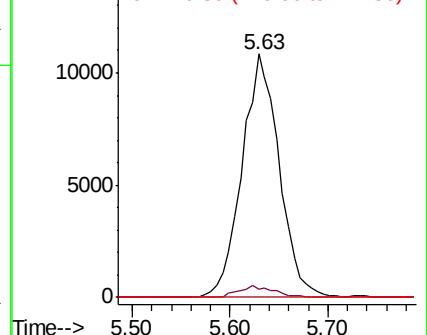
121 0.0 23.9 35.9#



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: 11.220 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

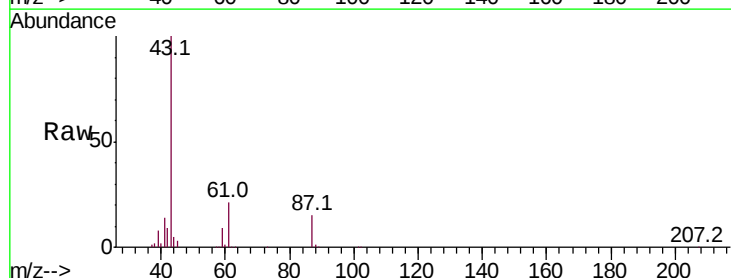
Tgt Ion: 43 Resp: 76799

Ion Ratio Lower Upper

43 100

61 21.6 17.8 26.6

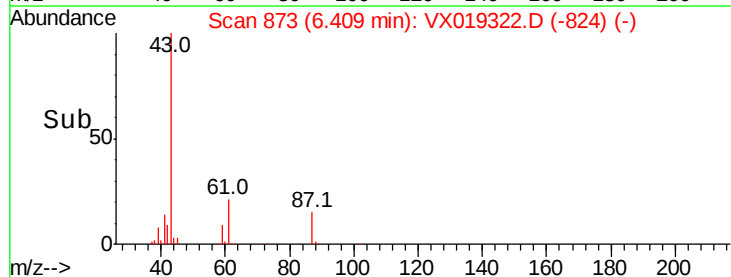
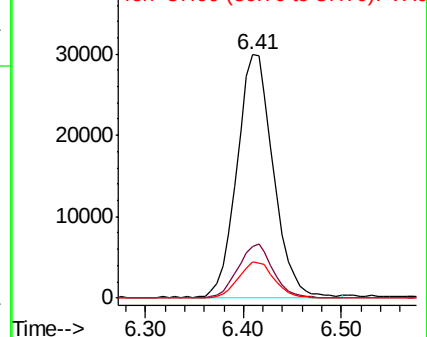
87 14.8 12.6 19.0

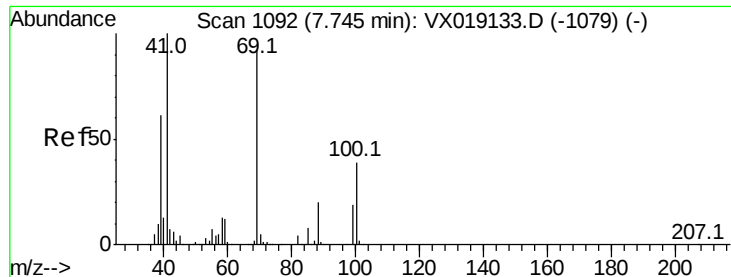


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

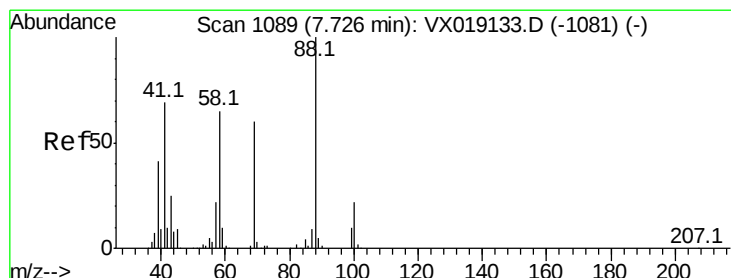
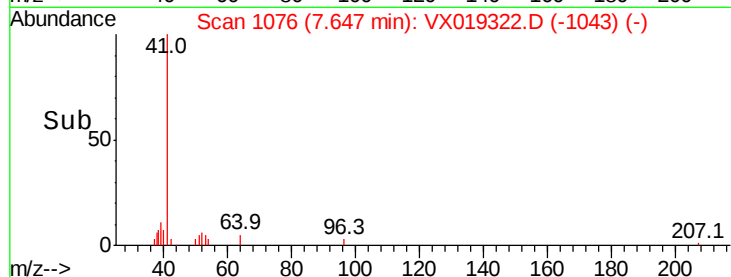
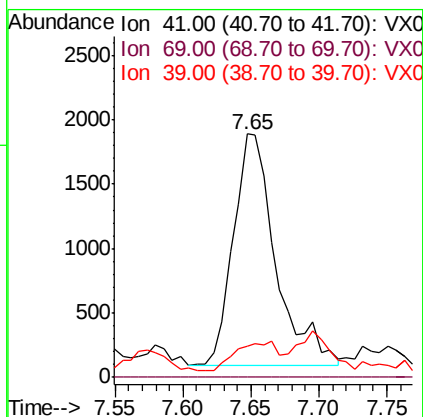
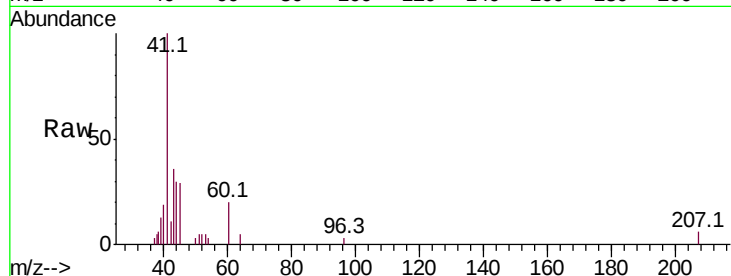




#48
Methvl methacrylate
Concen: 1.197 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX019322.D
Acq: 05 Nov 2020 18:18

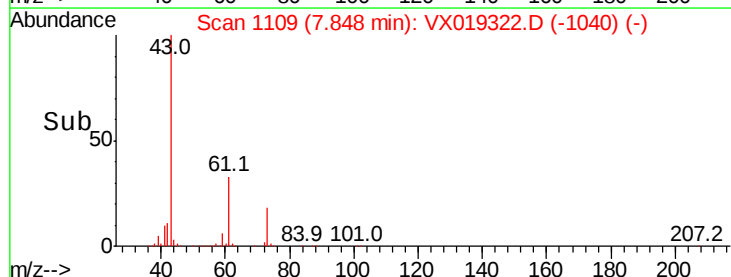
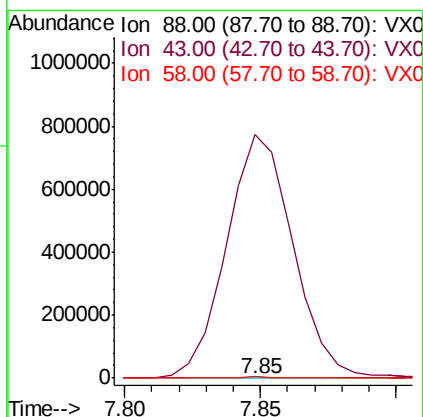
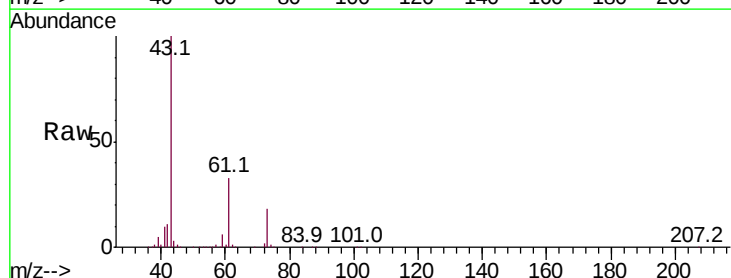
Instrument :
MSVOA_X
ClientSampleId :

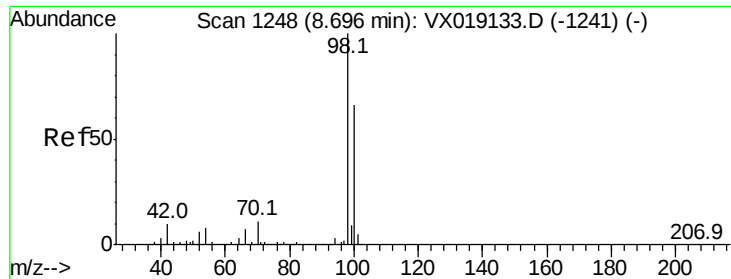
Tot Ion: 41 Resp: 3945
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.713 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.12 min
Lab File: VX019322.D
Acq: 05 Nov 2020 18:18

Tgt Ion: 88 Resp: 272
Ion Ratio Lower Upper
88 100
43 485371.0 23.0 34.6#
58 2298.9 52.2 78.2#





#50

Toluene-d8

Concen: 53.019 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

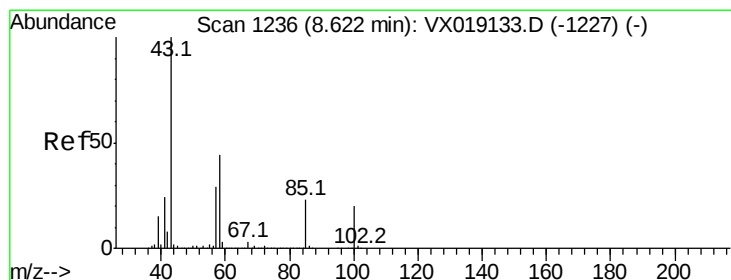
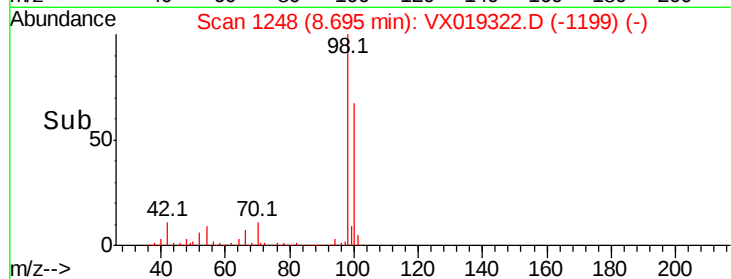
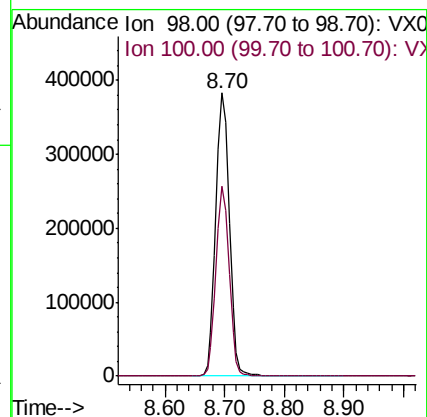
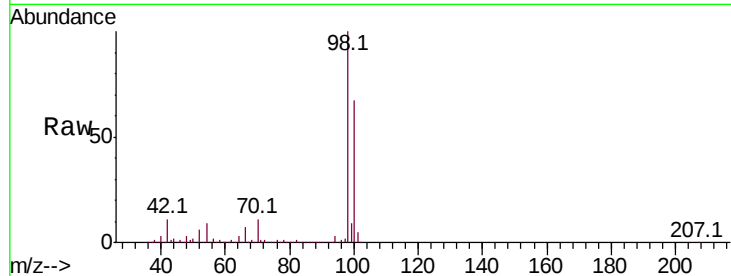
ClientSampleId :

Tot Ion: 98 Resp: 598561

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 19.190 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019322.D

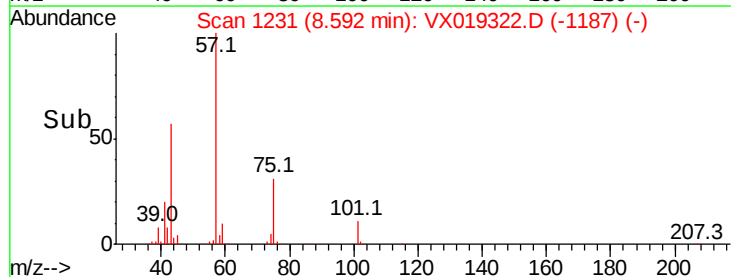
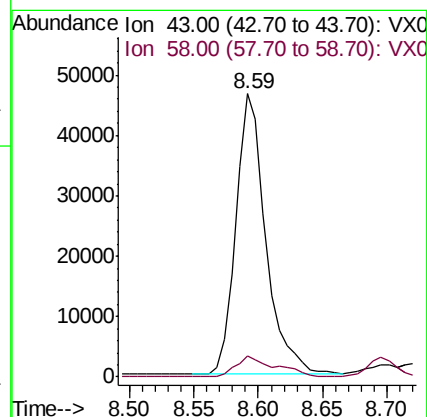
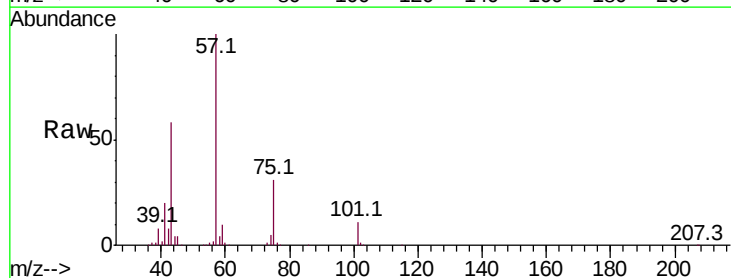
Acq: 05 Nov 2020 18:18

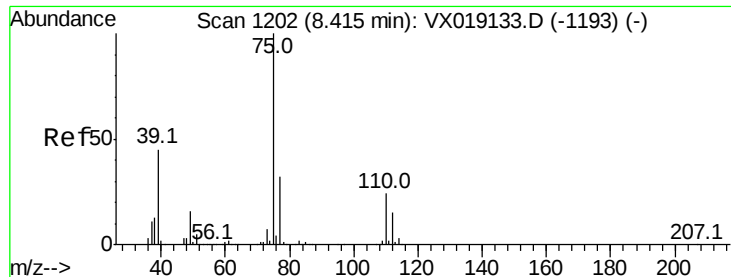
Tgt Ion: 43 Resp: 75494

Ion Ratio Lower Upper

43 100

58 9.9 35.0 52.4#





#54

cis-1,3-Dichloropropene

Concen: 7.061 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

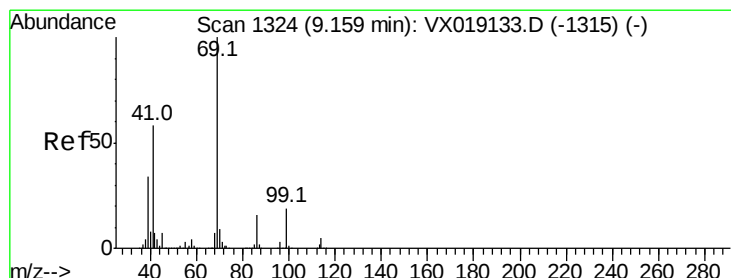
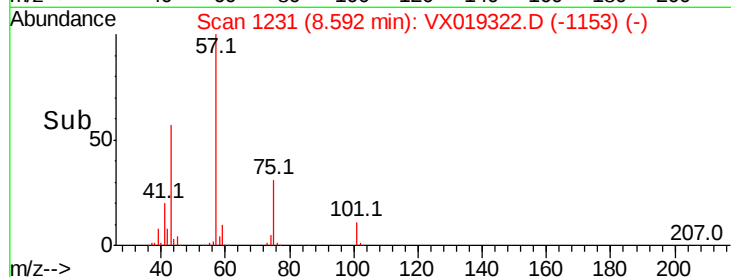
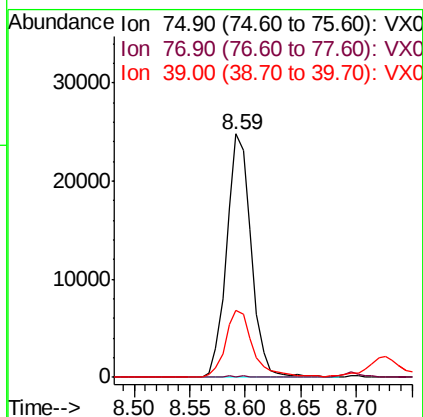
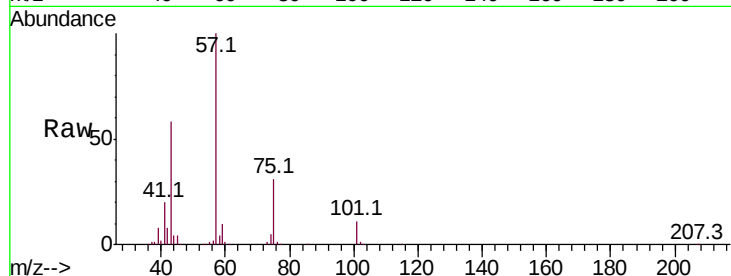
Tot Ion: 75 Resp: 37795

Ion Ratio Lower Upper

75 100

77 0.4 25.5 38.3#

39 27.4 36.2 54.2#



#56

Ethyl methacrylate

Concen: 0.265 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

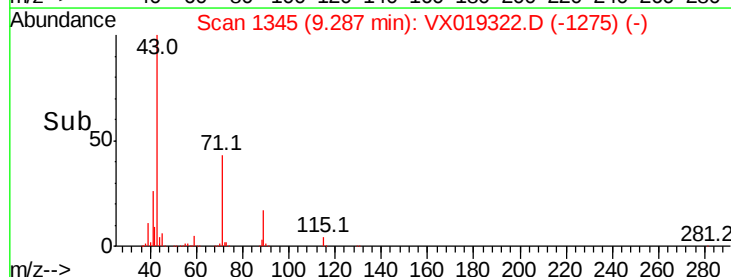
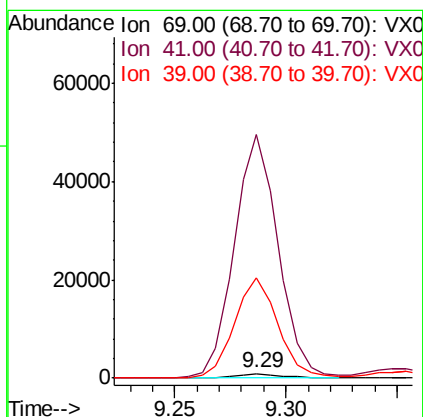
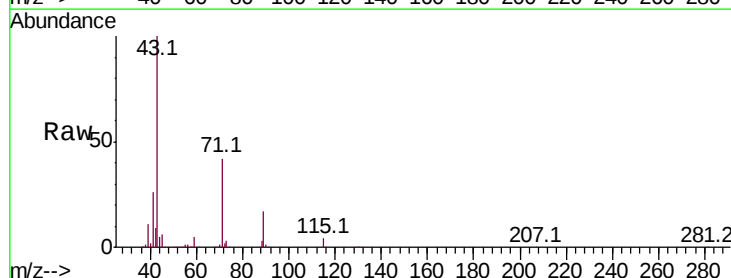
Tgt Ion: 69 Resp: 1271

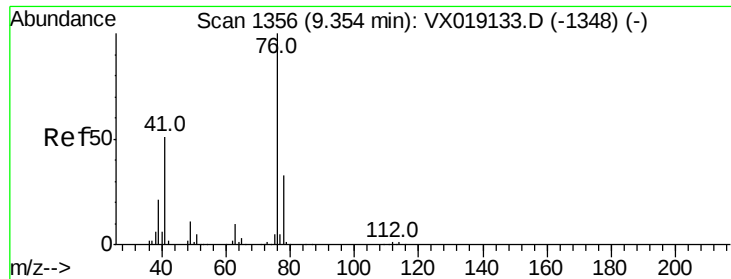
Ion Ratio Lower Upper

69 100

41 5389.0 46.5 69.7#

39 2210.2 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.243 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

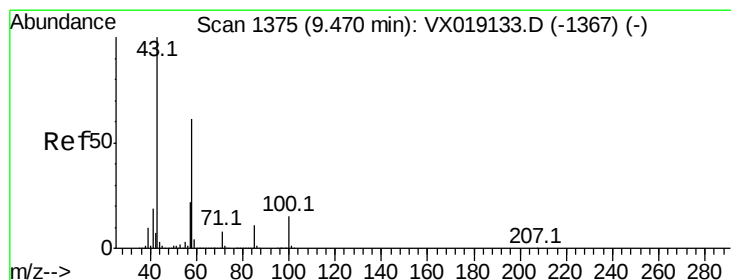
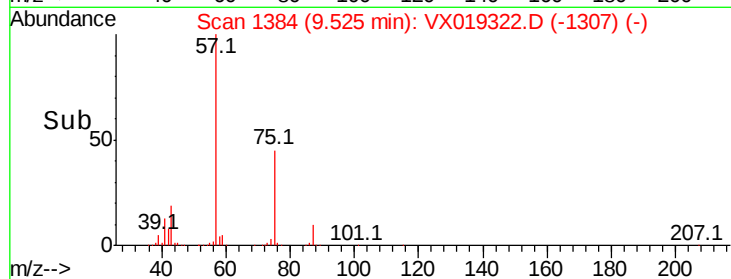
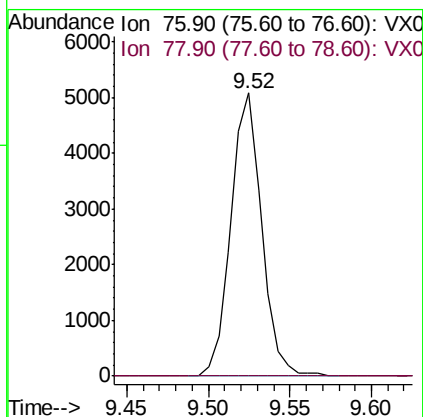
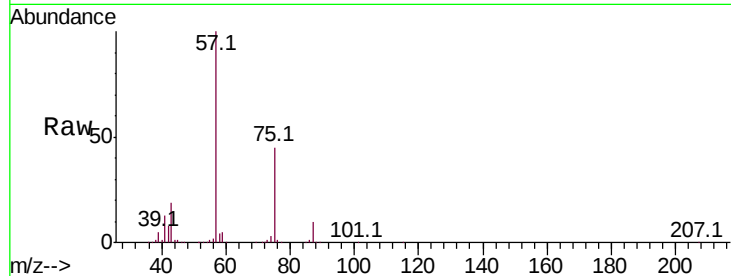
ClientSampleId :

Tot Ion: 76 Resp: 6658

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 24.170 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019322.D

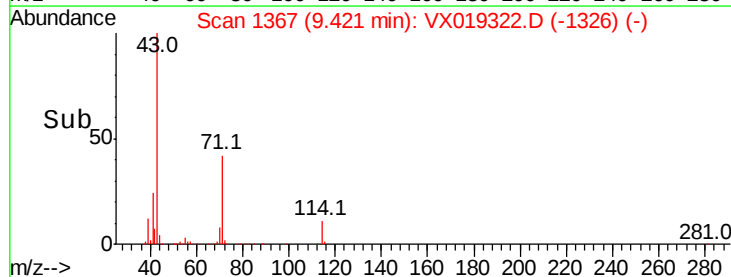
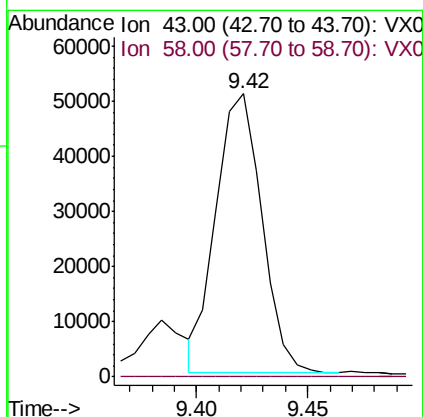
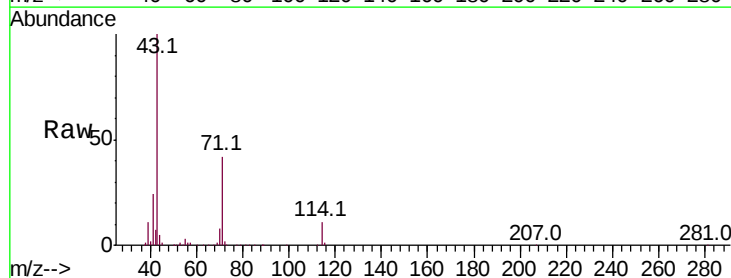
Acq: 05 Nov 2020 18:18

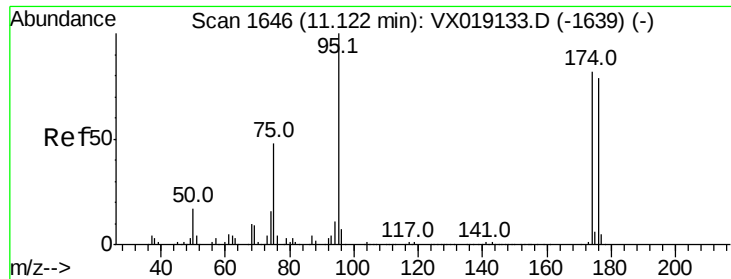
Tgt Ion: 43 Resp: 72381

Ion Ratio Lower Upper

43 100

58 0.0 30.5 91.5#





#62

4-Bromofluorobenzene

Concen: 52.555 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

ClientSampled :

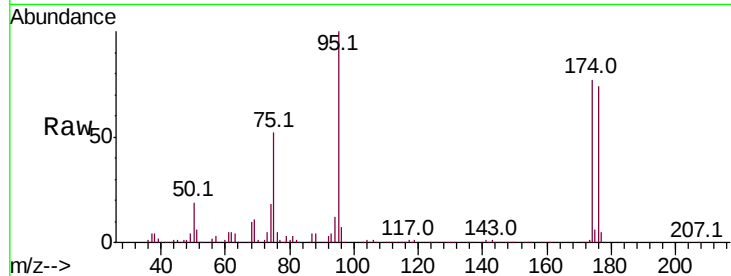
Tot Ion: 95 Resp: 224695

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.0

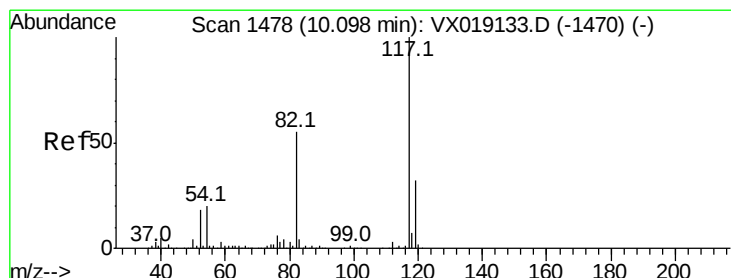
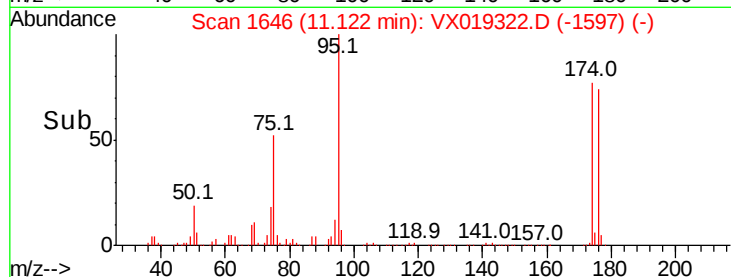
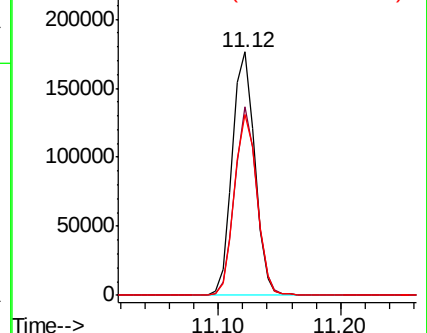
176 74.4 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

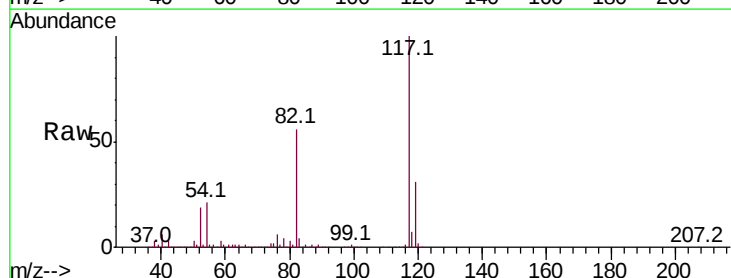
Tgt Ion: 117 Resp: 458953

Ion Ratio Lower Upper

117 100

82 56.2 43.6 65.4

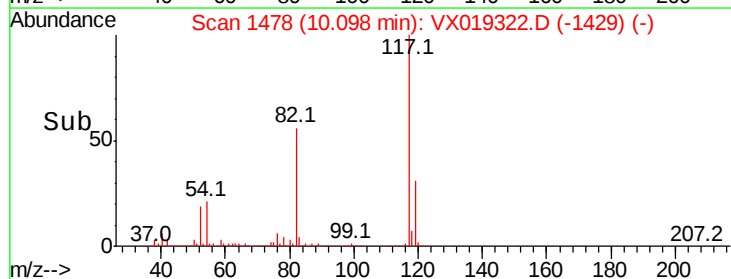
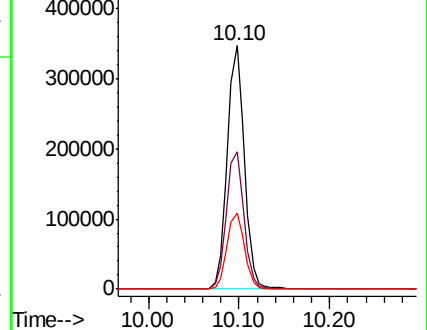
119 31.4 25.5 38.3

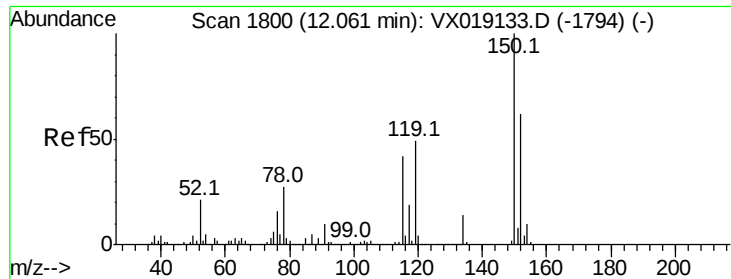


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

ClientSampleId :

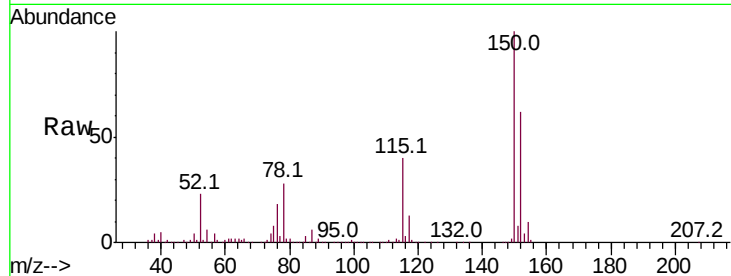
Tot Ion:152 Resp: 227884

Ion Ratio Lower Upper

152 100

115 61.4 41.9 125.7

150 158.1 0.0 347.8

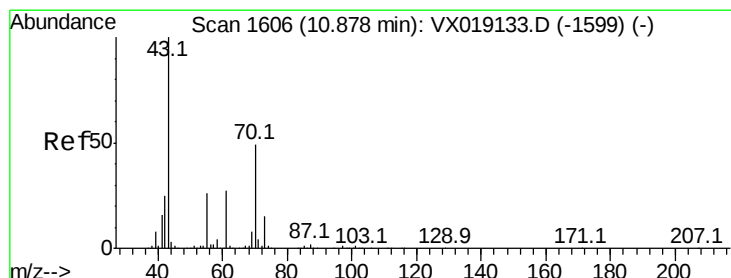
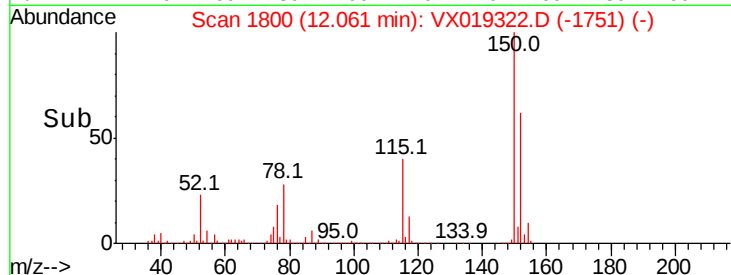
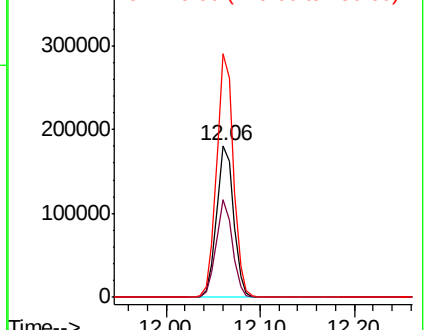


Abundance

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



#74

N-ethyl acetate

Concen: 0.530 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Tgt Ion: 43 Resp: 3128

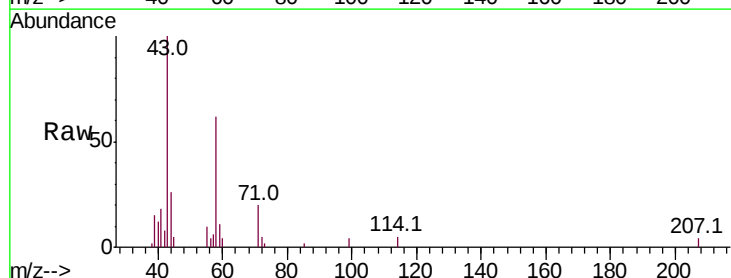
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 12.9 20.7 31.1#

61 0.0 21.9 32.9#



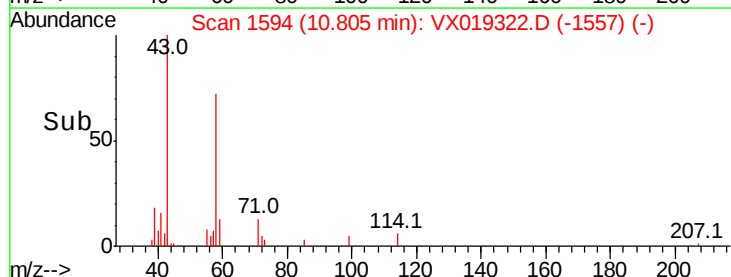
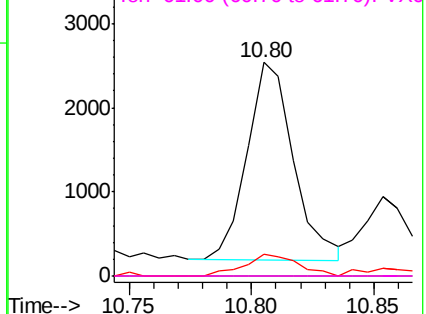
Abundance

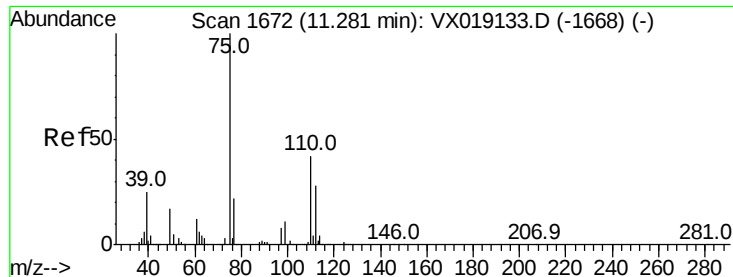
Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 25.016 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019322.D

Acq: 05 Nov 2020 18:18

Instrument :

MSVOA_X

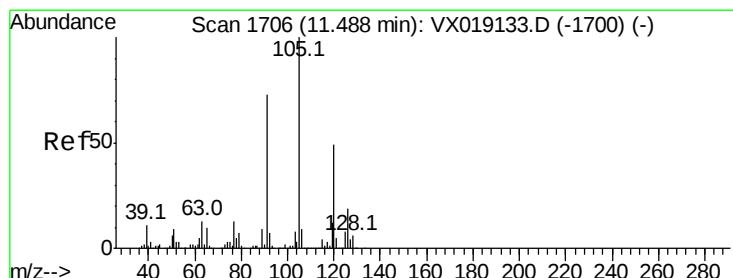
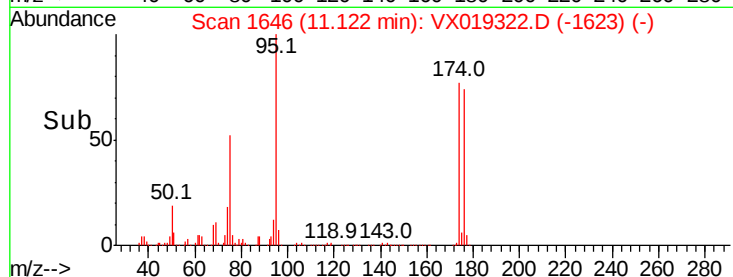
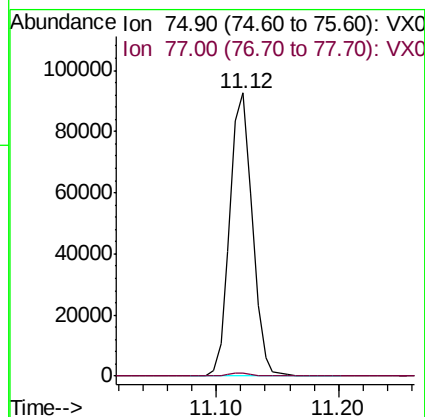
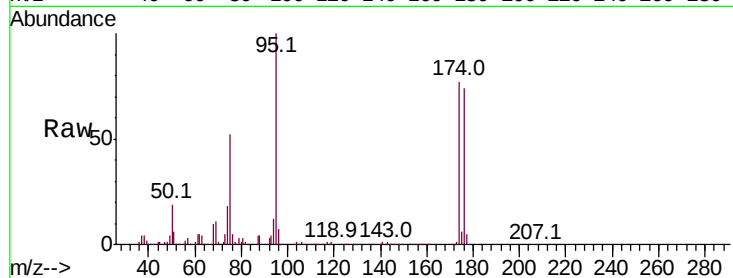
ClientSampleId :

Tot Ion: 75 Resp: 117710

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.854 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019322.D

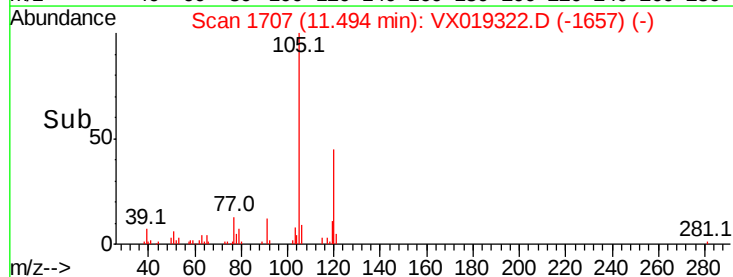
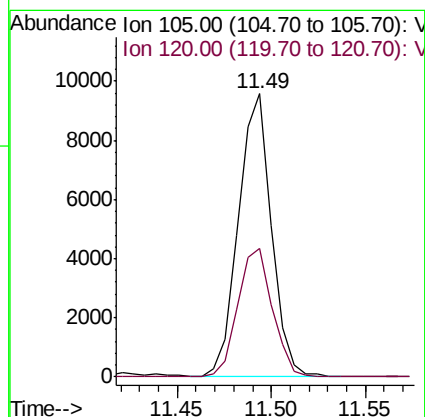
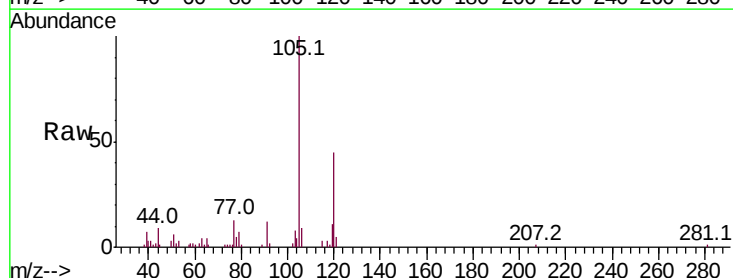
Acq: 05 Nov 2020 18:18

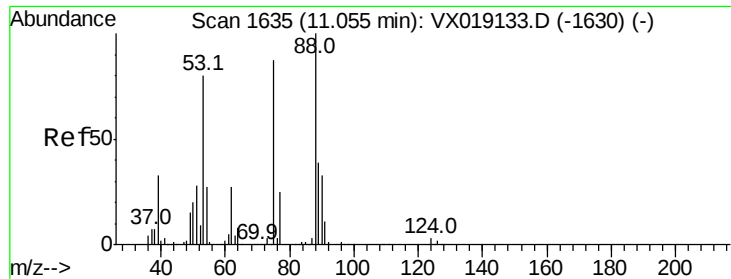
Tgt Ion: 105 Resp: 11632

Ion Ratio Lower Upper

105 100

120 47.6 24.3 72.8





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.868 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019322.D
 Acq: 05 Nov 2020 18:18

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 117710
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.3 109.9#
 89 0.0 38.2 57.2#

