

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019792.D
 Acq On : 09 Dec 2020 20:27
 Operator : JC/MD
 Sample : L4971-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-D-BOTTOM

Quant Time: Dec 10 05:42:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	323142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	536397	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	489090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214617	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	203445	47.90	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.80%
35) Dibromofluoromethane	5.46	113	165320	47.69	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.38%
50) Toluene-d8	8.70	98	657933	49.71	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.42%
62) 4-Bromofluorobenzene	11.12	95	227912	45.24	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.48%

Target Compounds

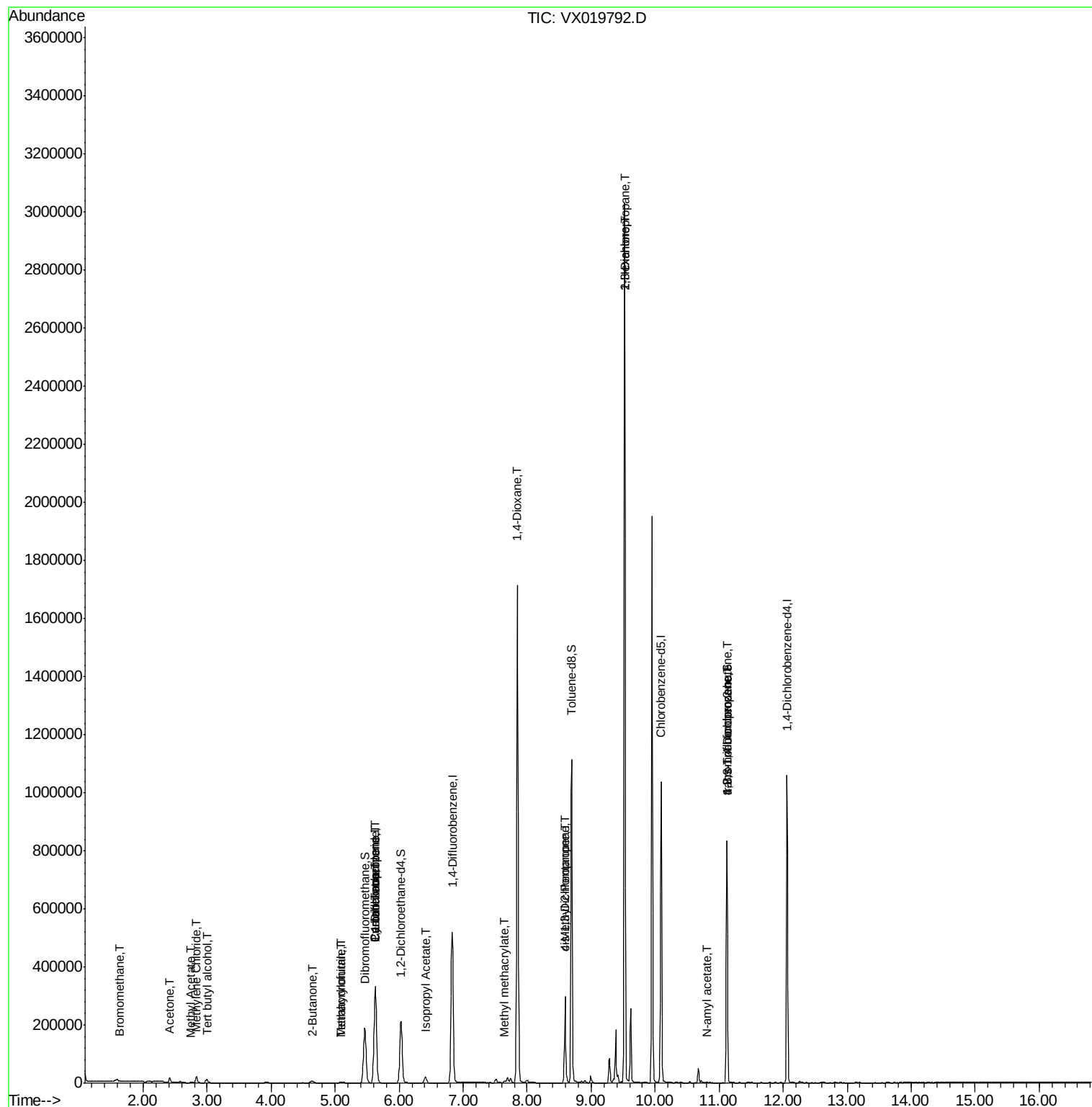
					Qvalue
5) Bromomethane	1.62	94	575	0.472 ug/l #	72
11) Tert butyl alcohol	3.00	59	7383	5.904 ug/l #	80
16) Acetone	2.42	43	16535	10.358 ug/l	96
18) Methyl Acetate	2.75	43	2074	0.531 ug/l	100
20) Methylene Chloride	2.83	84	9839	1.315 ug/l	98
25) 2-Butanone	4.64	43	7191	2.932 ug/l	99
29) Tetrahydrofuran	5.10	42	2876	1.820 ug/l	97
31) Cyclohexane	5.62	56	6082	1.151 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24316	5.017 ug/l #	49
38) Carbon Tetrachloride	5.62	117	31139	6.560 ug/l #	17
41) Methacrylonitrile	5.09	41	1888	0.703 ug/l #	43
43) Isopropyl Acetate	6.41	43	26772	3.365 ug/l	99
48) Methyl methacrylate	7.65	41	7237	1.849 ug/l #	10
49) 1,4-Dioxane	7.84	88	253	2.669 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	93156	19.177 ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	48794	8.162 ug/l #	60
57) 1,3-Dichloropropane	9.52	76	27388	4.298 ug/l #	43
59) 2-Hexanone	9.52	43	328834	87.331 ug/l #	46
74) N-amyl acetate	10.80	43	1224	0.208 ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	110156	22.885 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110156	66.156 ug/l #	12

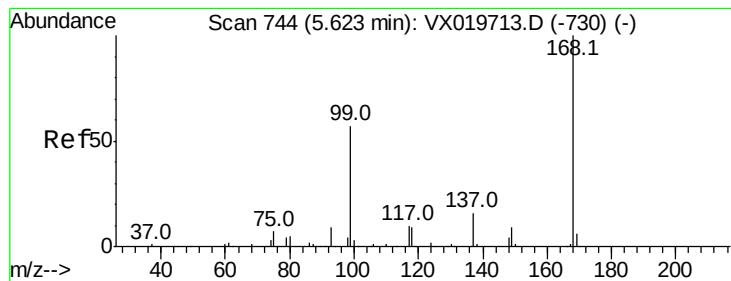
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

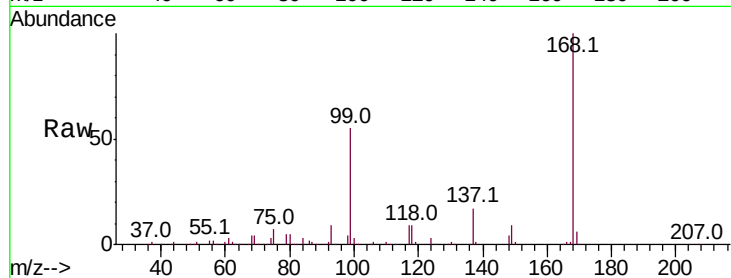
5S2-D-BOTTOM

Tot Ion:168 Resp: 323142

Ion Ratio Lower Upper

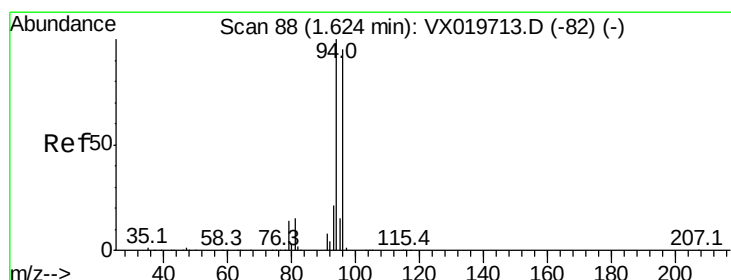
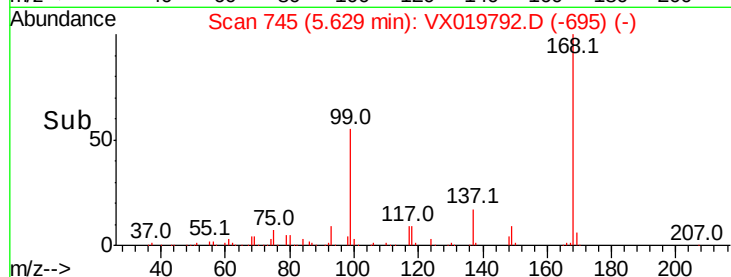
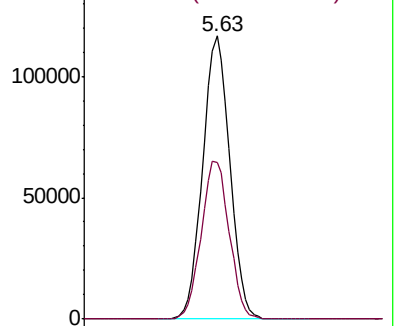
168 100

99 55.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.472 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX019792.D

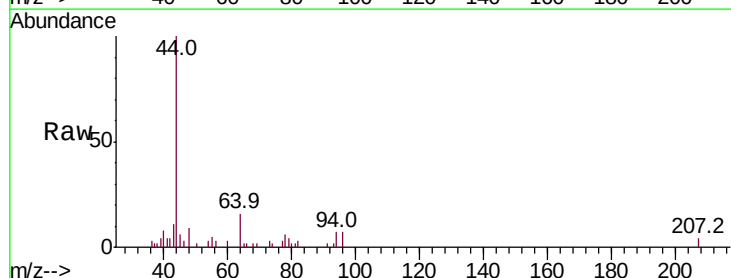
Acq: 09 Dec 2020 20:27

Tgt Ion: 94 Resp: 575

Ion Ratio Lower Upper

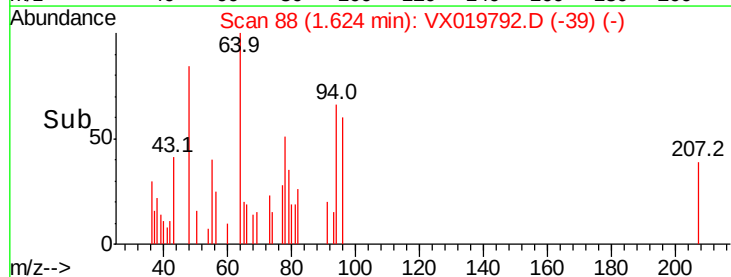
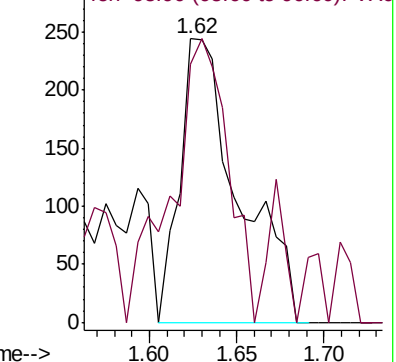
94 100

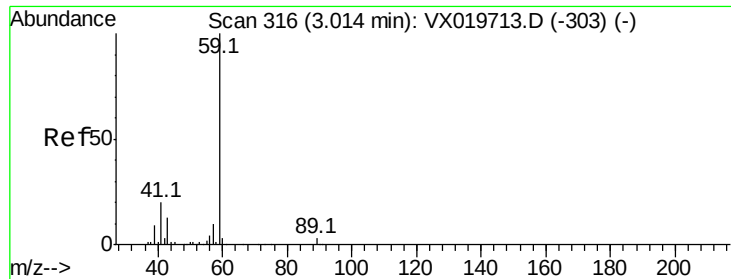
96 68.0 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#11

Tert butyl alcohol

Concen: 5.904 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

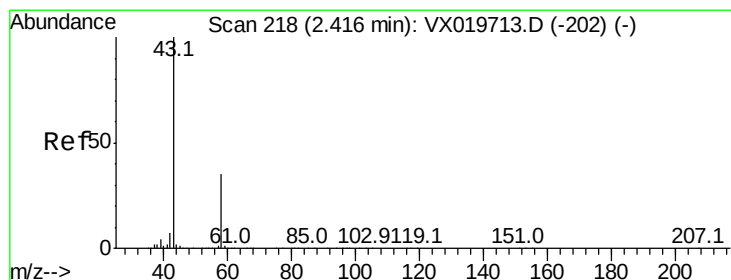
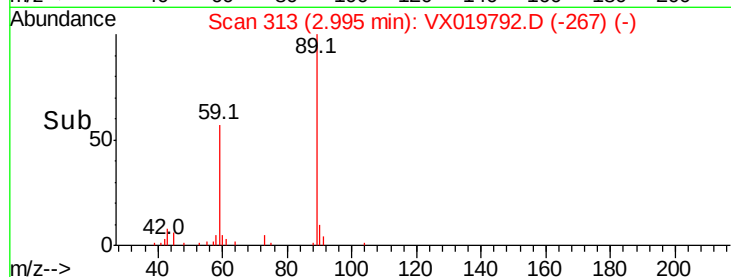
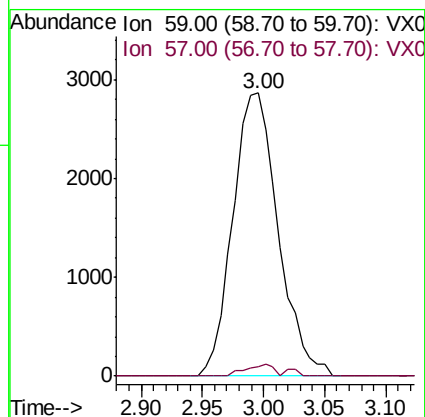
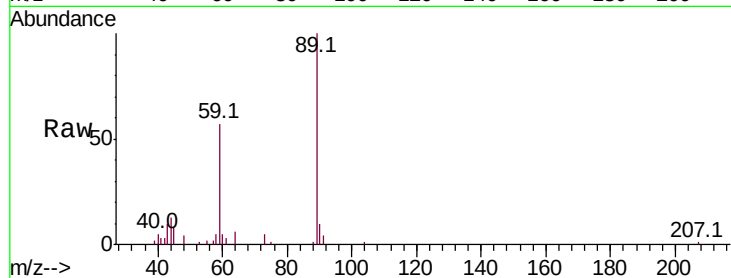
5S2-D-BOTTOM

Tot Ion: 59 Resp: 7383

Ion Ratio Lower Upper

59 100

57 2.5 7.8 11.8#



#16

Acetone

Concen: 10.358 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019792.D

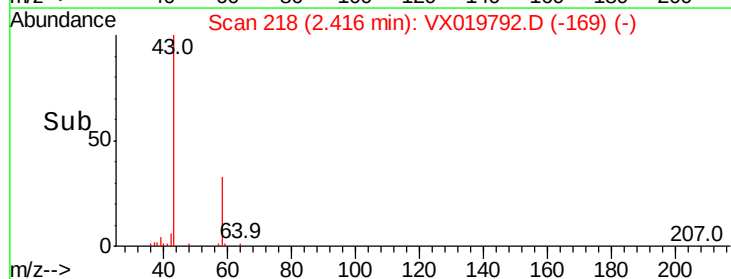
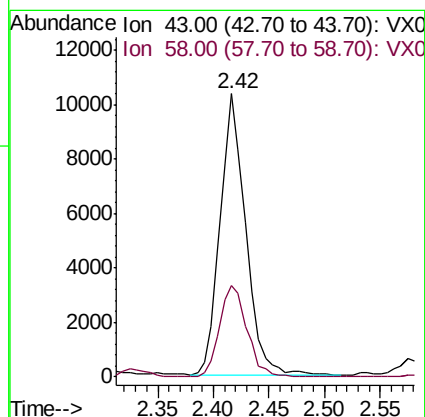
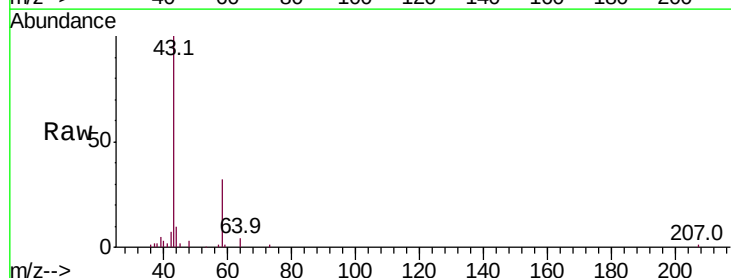
Acq: 09 Dec 2020 20:27

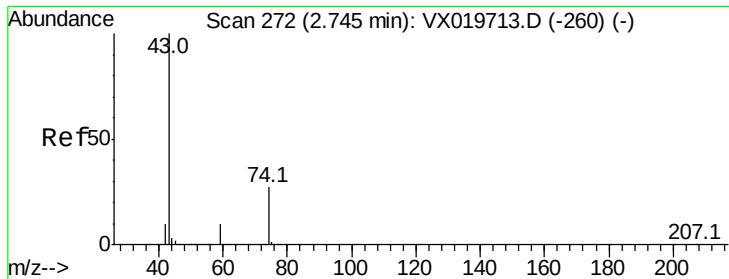
Tgt Ion: 43 Resp: 16535

Ion Ratio Lower Upper

43 100

58 32.7 27.8 41.8

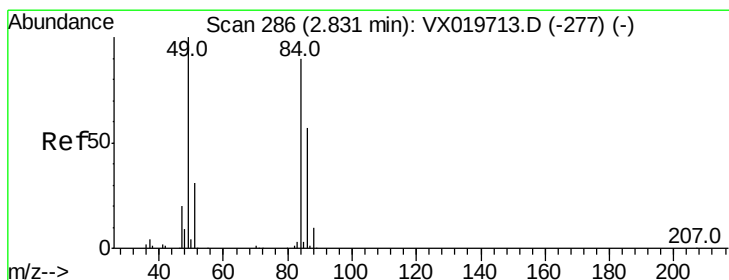
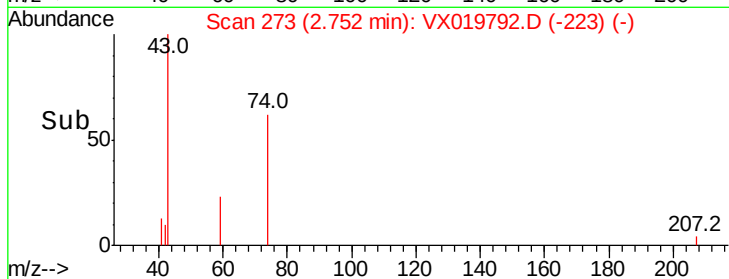
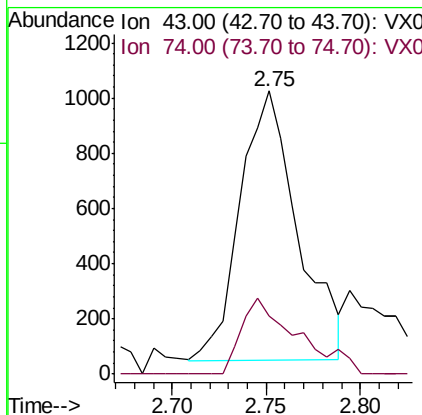
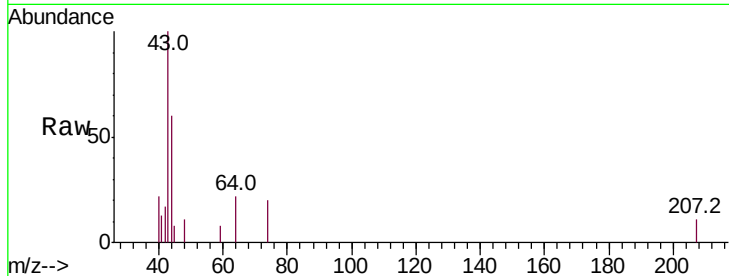




#18
Methyl Acetate
Concen: 0.531 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

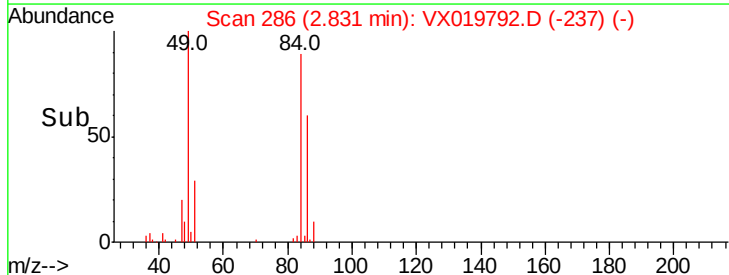
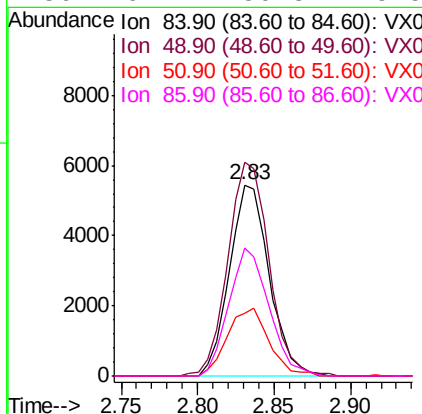
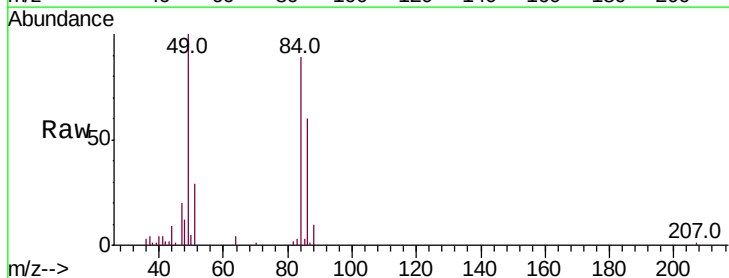
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

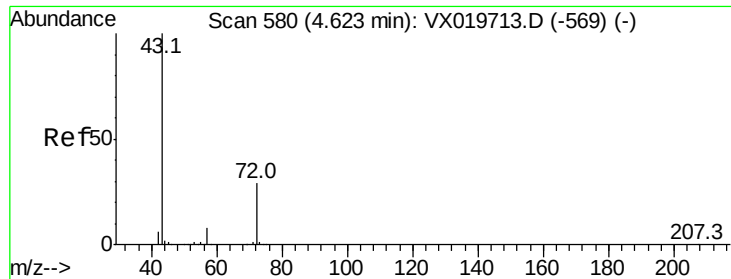
Tot Ion: 43 Resp: 2074
Ion Ratio Lower Upper
43 100
74 27.6 21.9 32.9



#20
Methylene Chloride
Concen: 1.315 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion: 84 Resp: 9839
Ion Ratio Lower Upper
84 100
49 111.9 88.6 132.8
51 33.0 27.0 40.6
86 67.1 50.3 75.5





#25

2-Butanone

Concen: 2.932 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

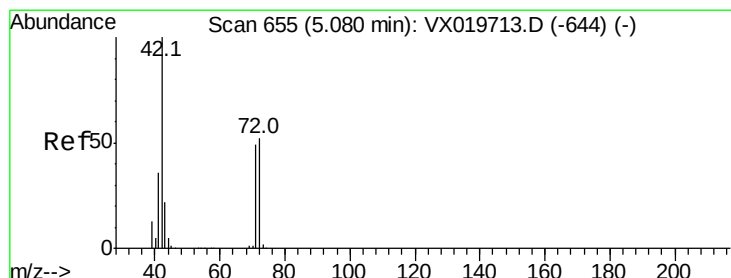
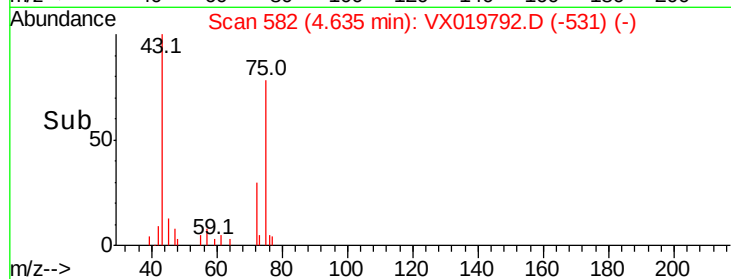
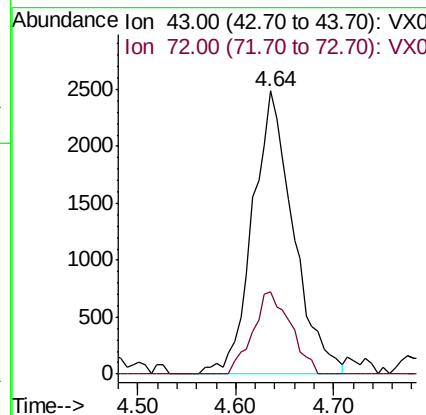
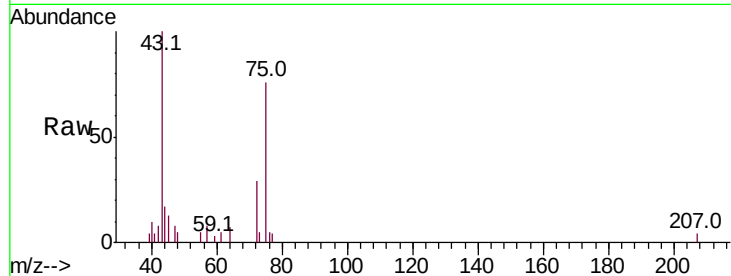
5S2-D-BOTTOM

Tot Ion: 43 Resp: 7191

Ion Ratio Lower Upper

43 100

72 29.0 23.7 35.5



#29

Tetrahydrofuran

Concen: 1.820 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

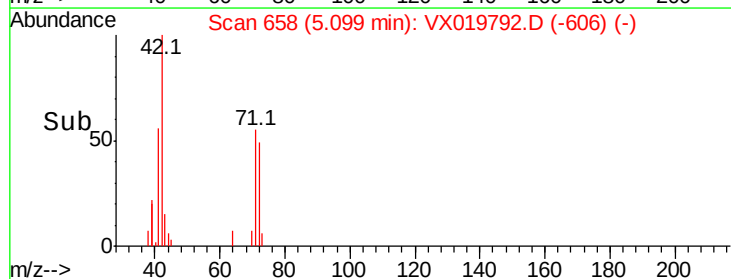
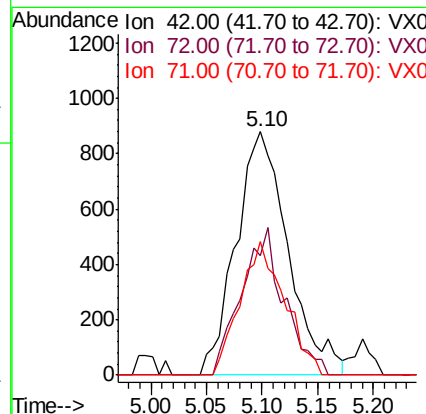
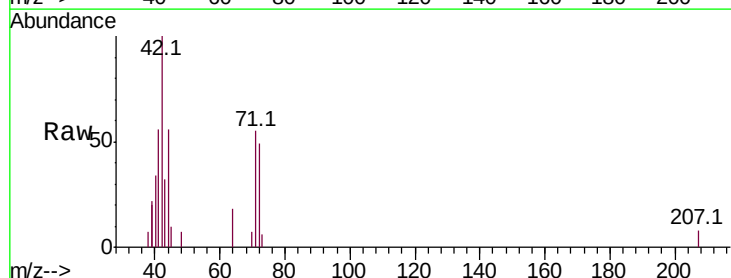
Tgt Ion: 42 Resp: 2876

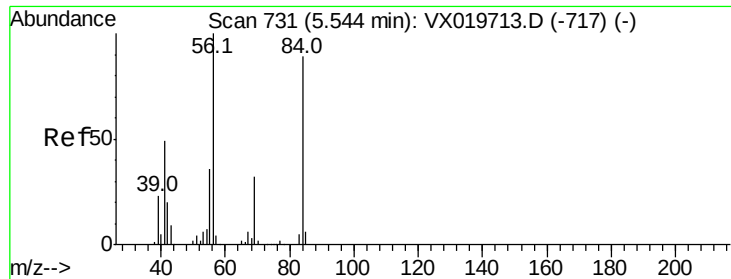
Ion Ratio Lower Upper

42 100

72 49.6 41.7 62.5

71 46.5 38.4 57.6

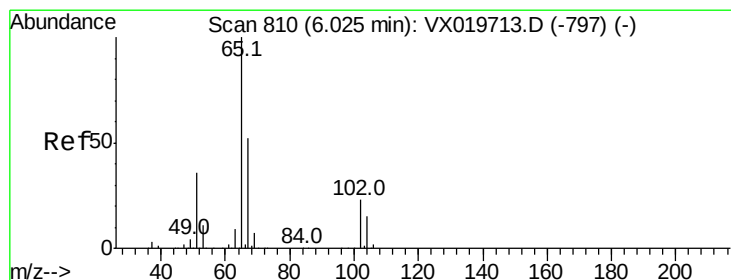
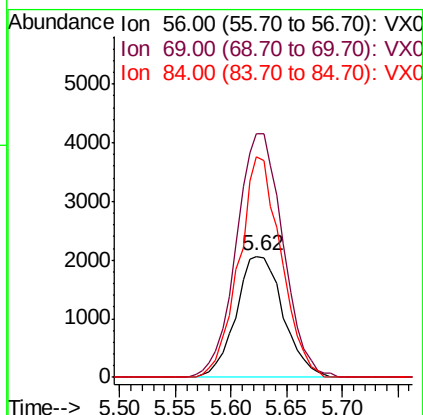
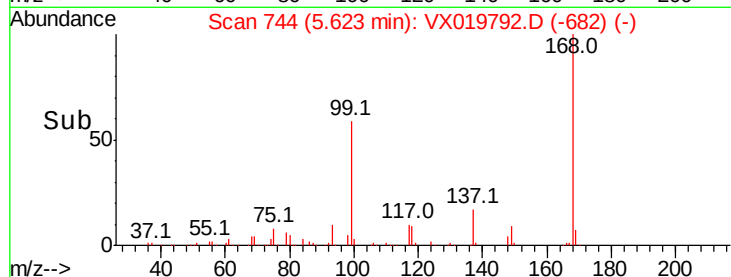
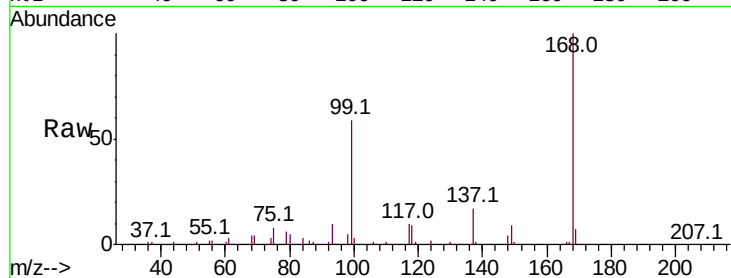




#31
Cyclohexane
Concen: 1.151 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

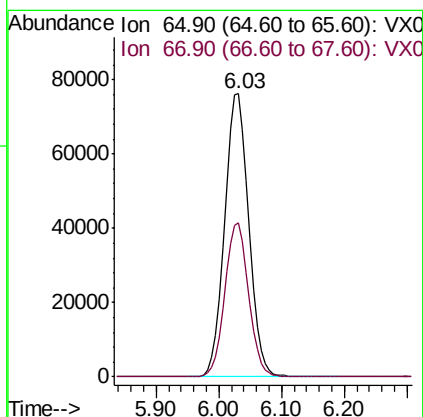
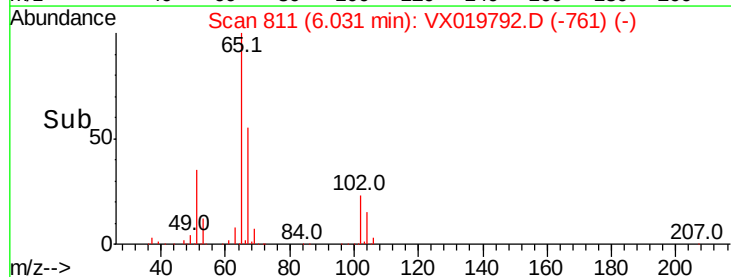
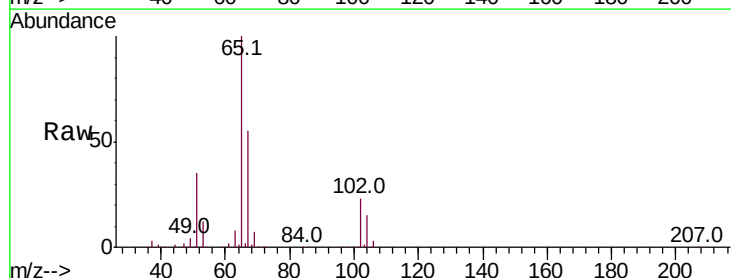
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

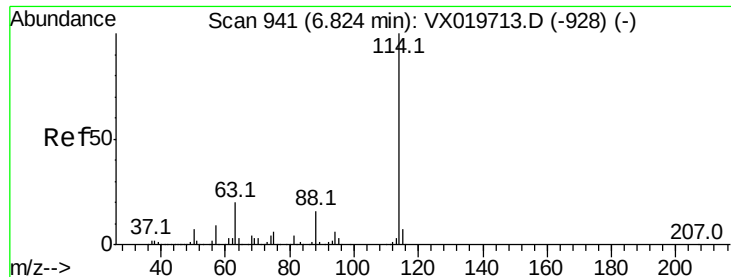
Tot Ion: 56 Resp: 6082
Ion Ratio Lower Upper
56 100
69 200.9 25.3 37.9#
84 181.6 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 47.903 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion: 65 Resp: 203445
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-BOTTOM

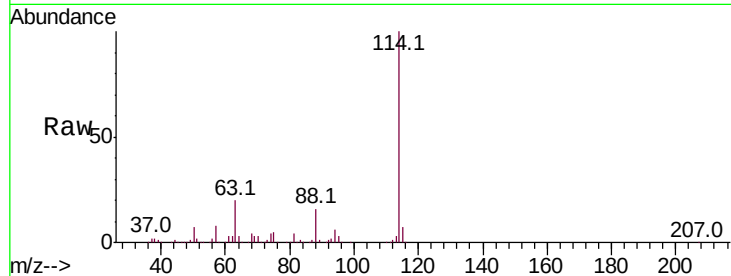
Tot Ion:114 Resp: 536397

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

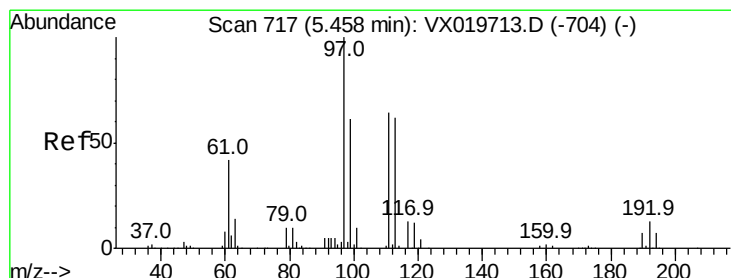
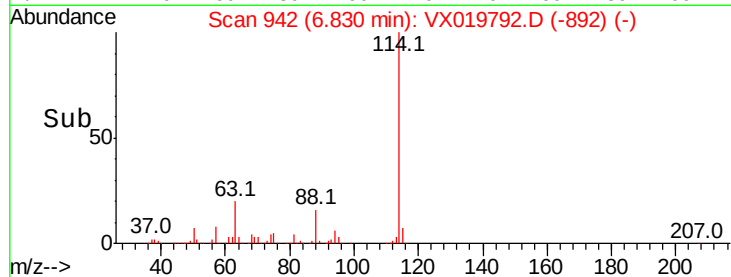
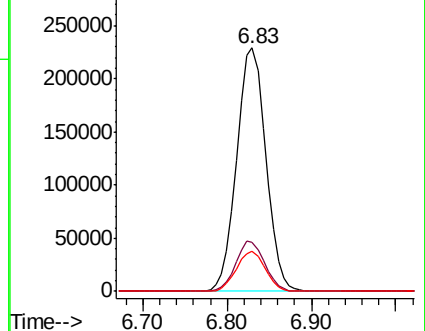
88 16.4 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.689 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

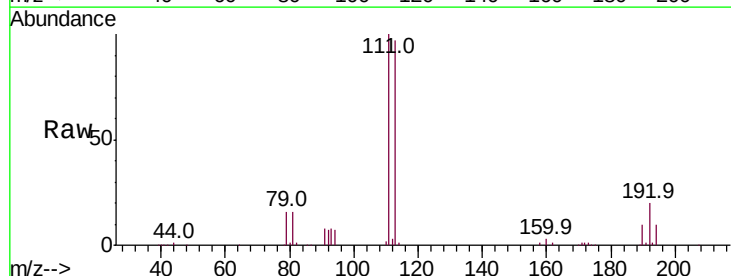
Tgt Ion:113 Resp: 165320

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

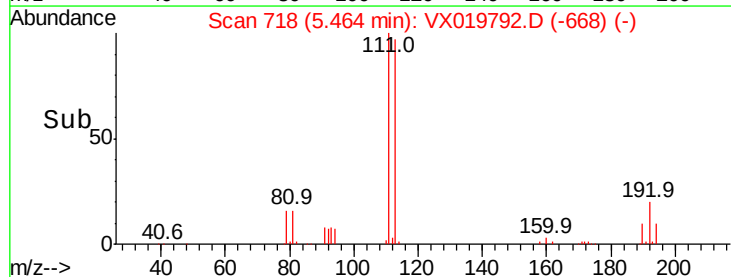
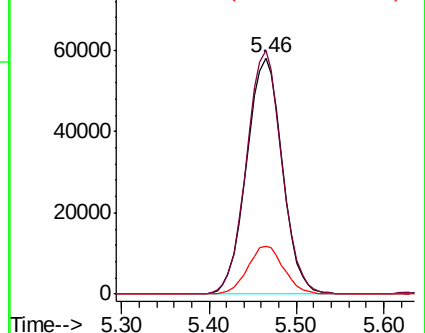
192 20.4 16.7 25.1

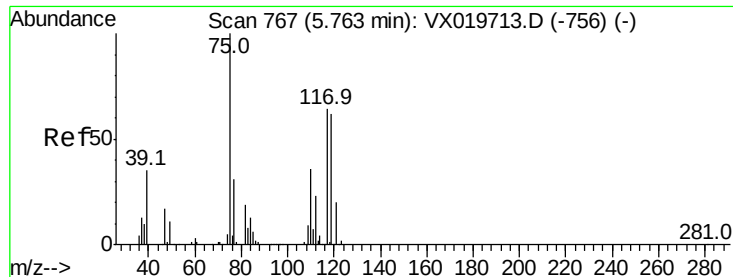


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.017 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-BOTTOM

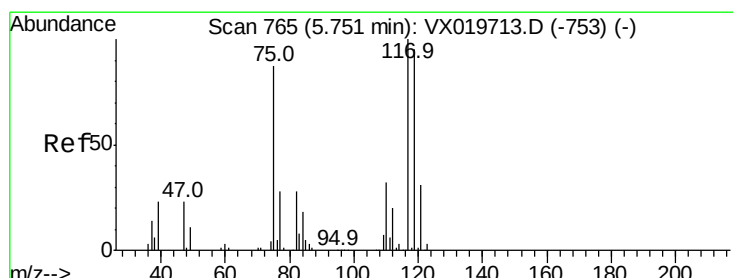
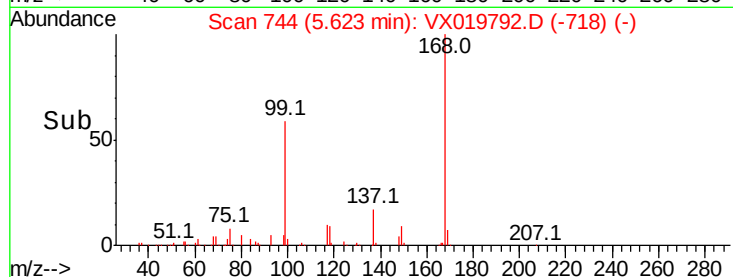
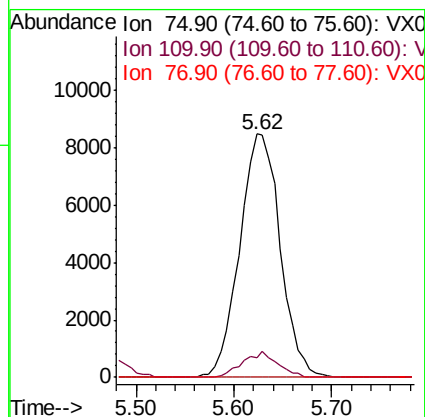
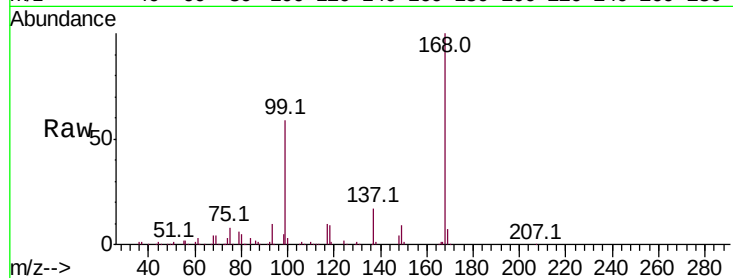
Tot Ion: 75 Resp: 24316

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.560 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

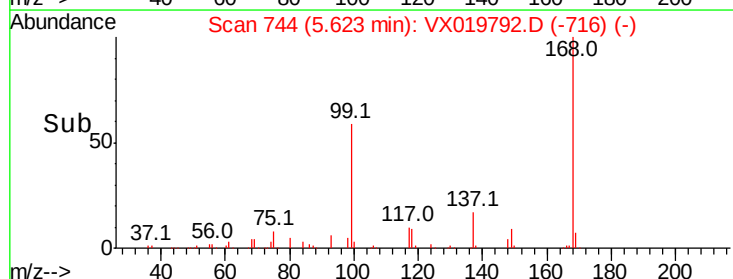
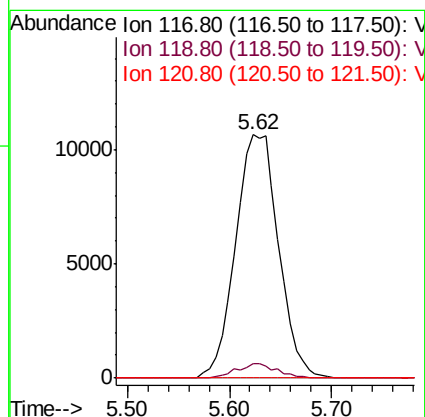
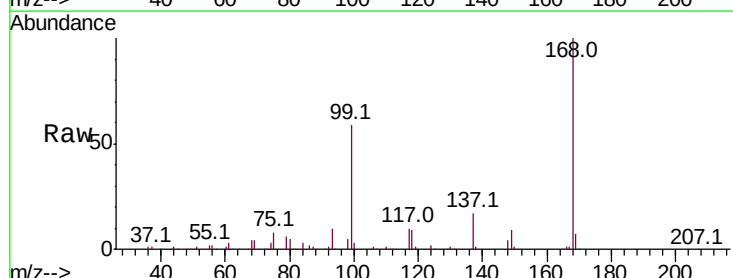
Tgt Ion: 117 Resp: 31139

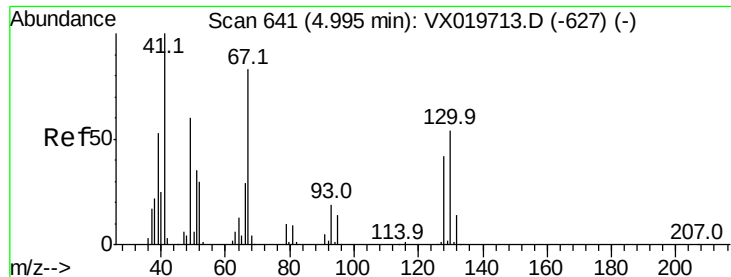
Ion Ratio Lower Upper

117 100

119 6.0 76.2 114.2#

121 0.0 24.8 37.2#

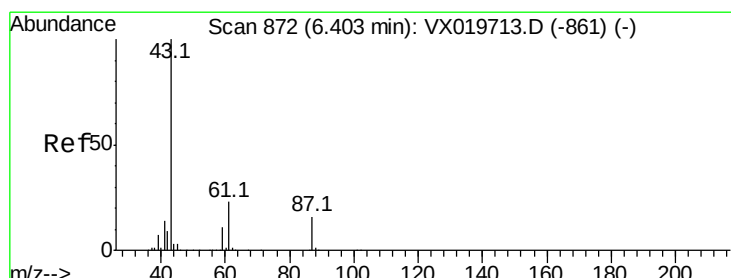
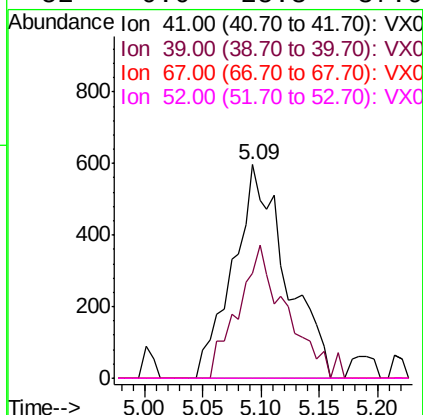
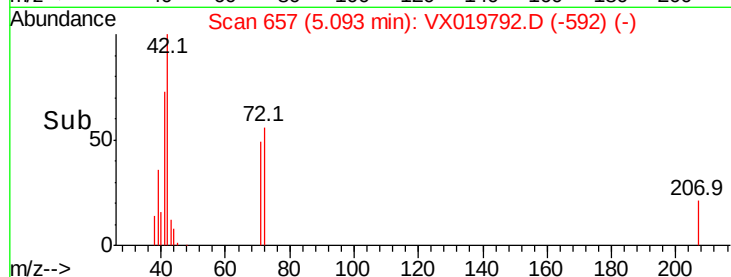
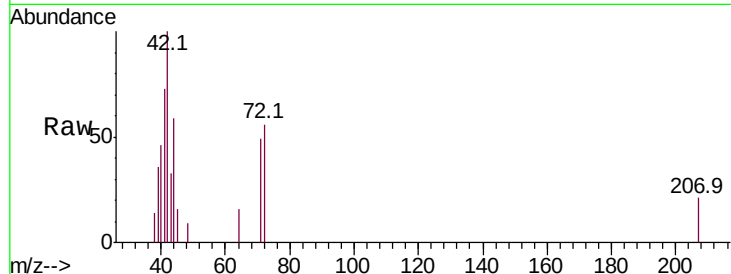




#41
Methacrylonitrile
Concen: 0.703 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

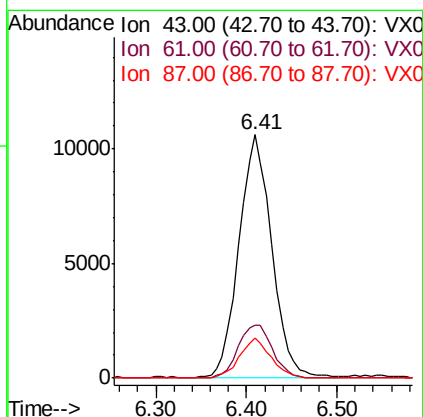
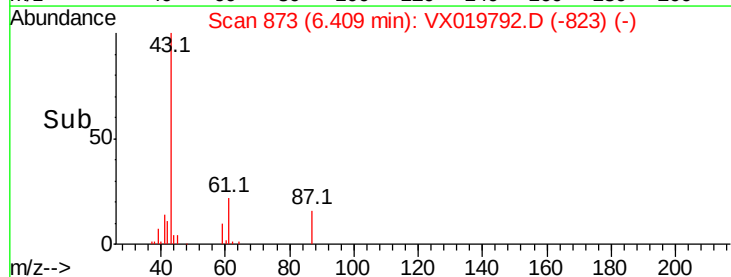
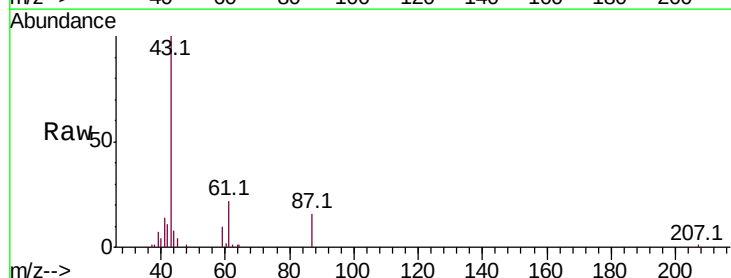
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

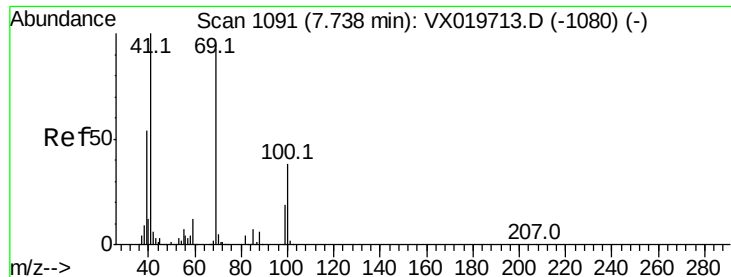
Tot Ion: 41 Resp: 1888
Ion Ratio Lower Upper
41 100
39 57.2 42.5 63.7
67 0.0 65.0 97.6#
52 0.0 25.3 37.9#



#43
Isopropyl Acetate
Concen: 3.365 ug/l
RT: 6.41 min Scan# 873
Delta R.T. 0.01 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion: 43 Resp: 26772
Ion Ratio Lower Upper
43 100
61 22.6 18.2 27.4
87 15.2 12.5 18.7

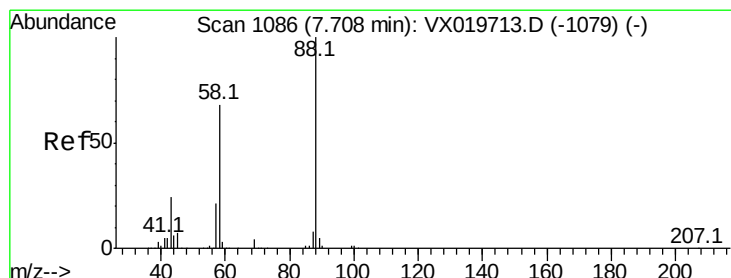
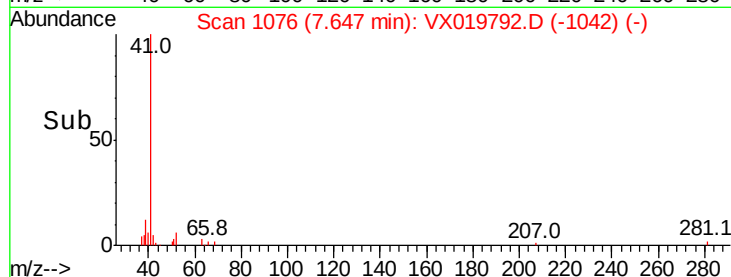
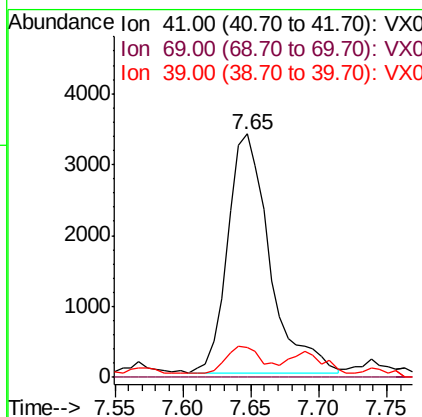
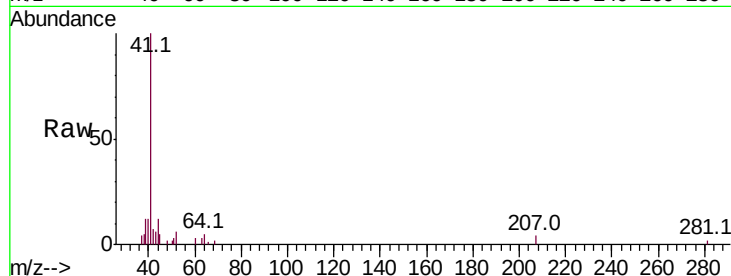




#48
Methvl methacrylate
Concen: 1.849 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

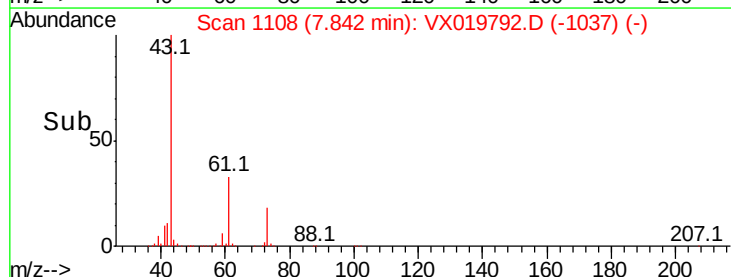
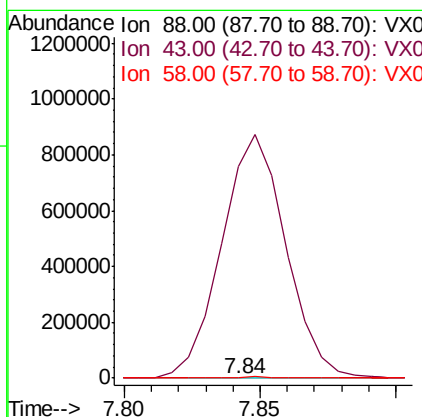
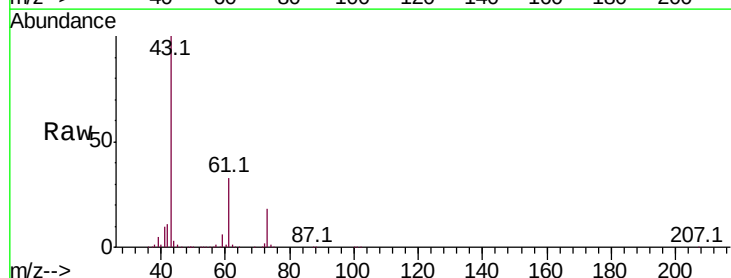
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

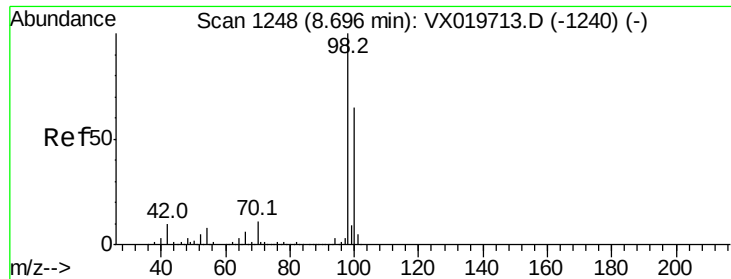
Tot Ion: 41 Resp: 7237
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.669 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion: 88 Resp: 253
Ion Ratio Lower Upper
88 100
43 566442.7 23.2 34.8#
58 2849.8 55.0 82.4#

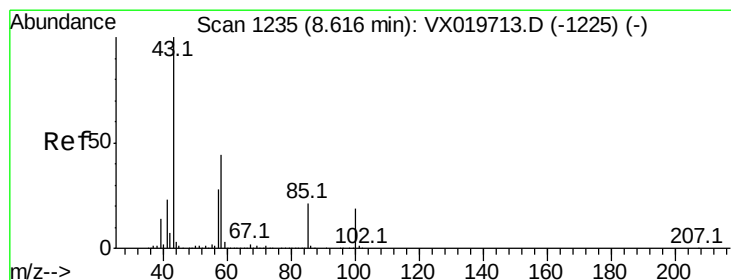
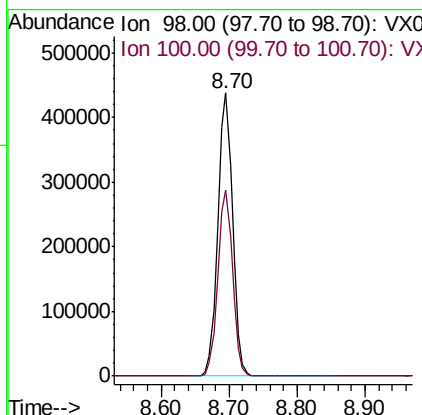
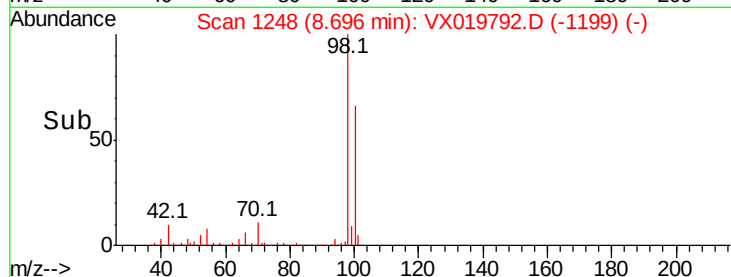
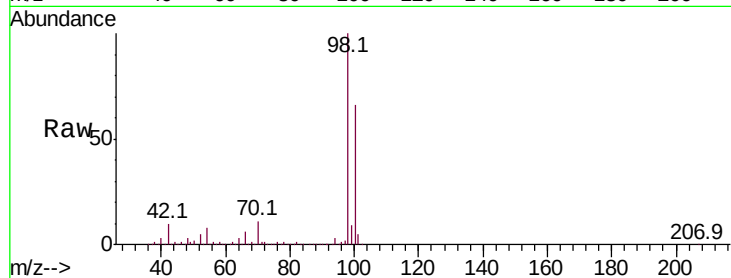




#50
Toluene-d8
Concen: 49.712 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

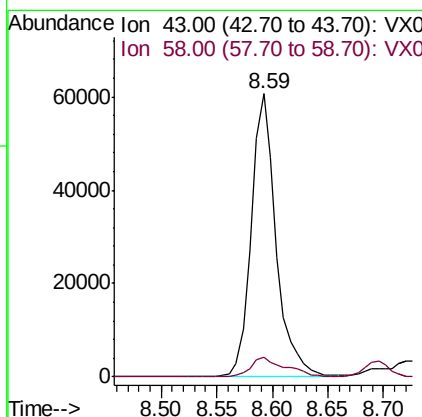
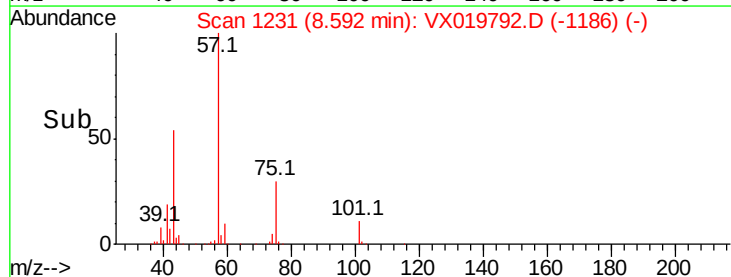
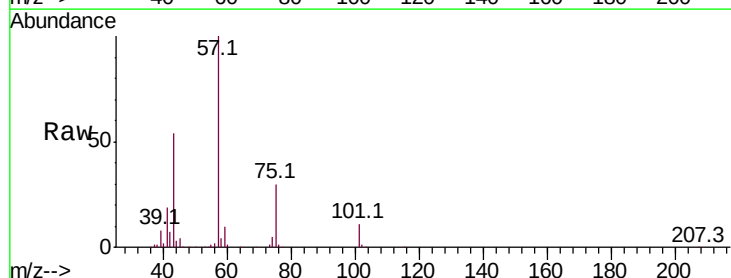
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

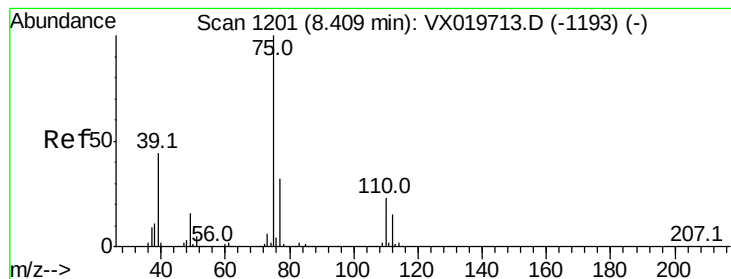
Tot Ion: 98 Resp: 657933
Ion Ratio Lower Upper
98 100
100 65.6 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 19.177 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion: 43 Resp: 93156
Ion Ratio Lower Upper
43 100
58 9.6 35.4 53.0#





#54

cis-1,3-Dichloropropene

Concen: 8.162 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-BOTTOM

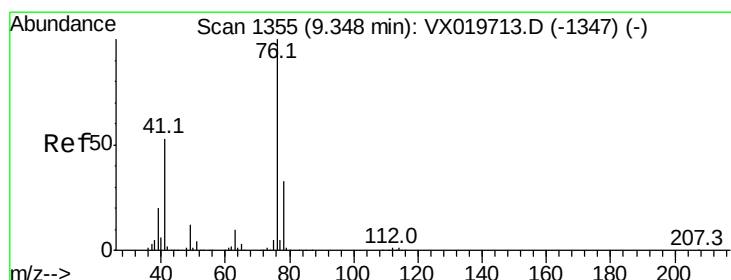
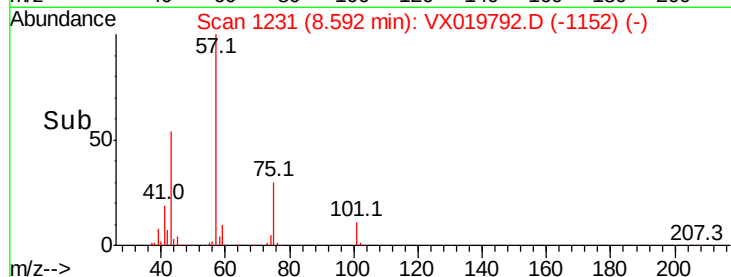
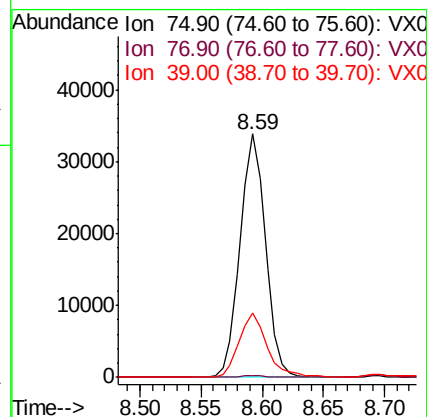
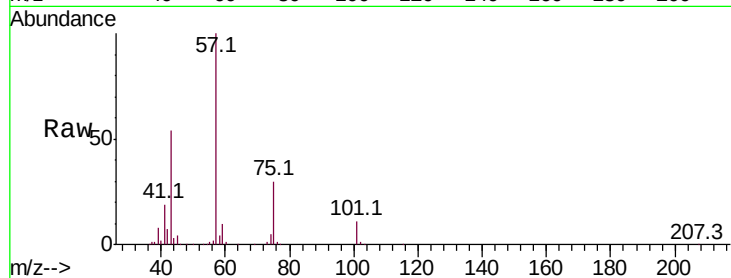
Tot Ion: 75 Resp: 48794

Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 26.4 35.1 52.7#



#57

1,3-Dichloropropane

Concen: 4.298 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.17 min

Lab File: VX019792.D

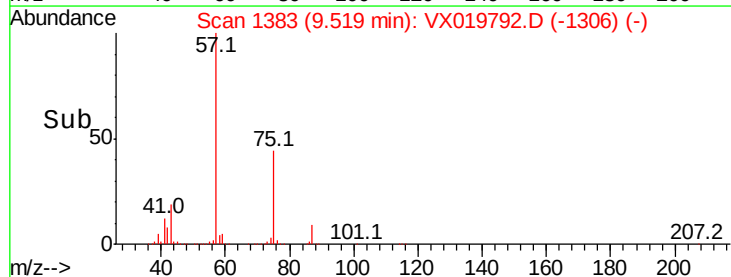
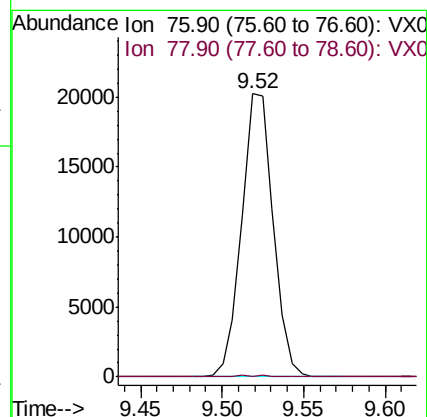
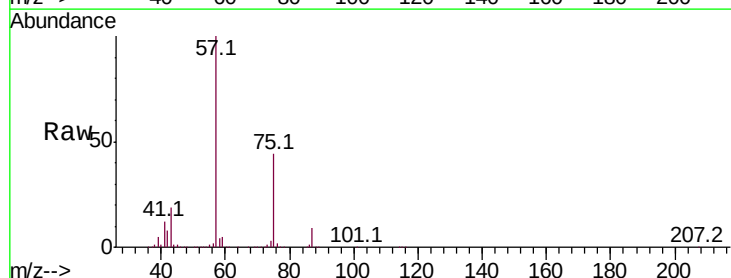
Acq: 09 Dec 2020 20:27

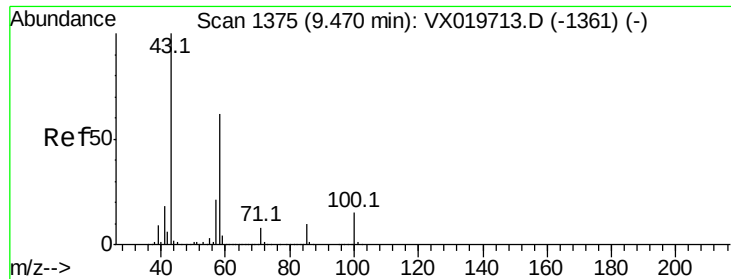
Tgt Ion: 76 Resp: 27388

Ion Ratio Lower Upper

76 100

78 0.6 26.2 39.2#

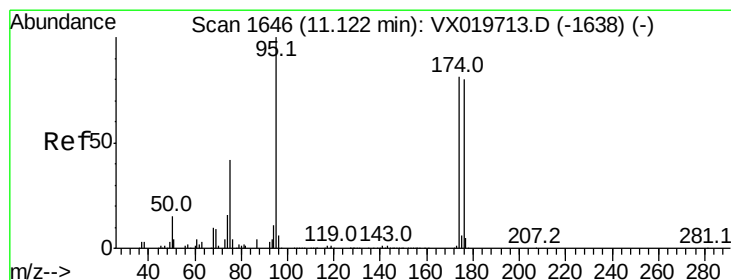
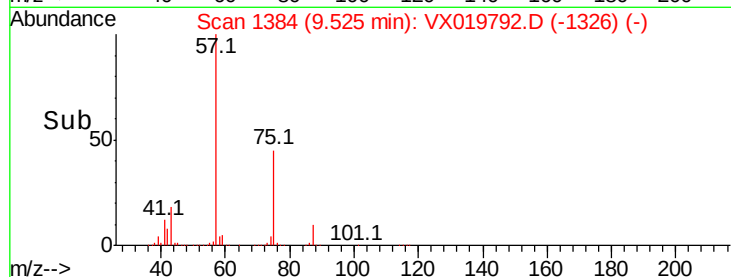
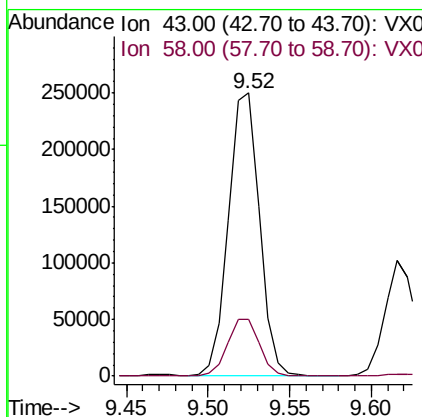
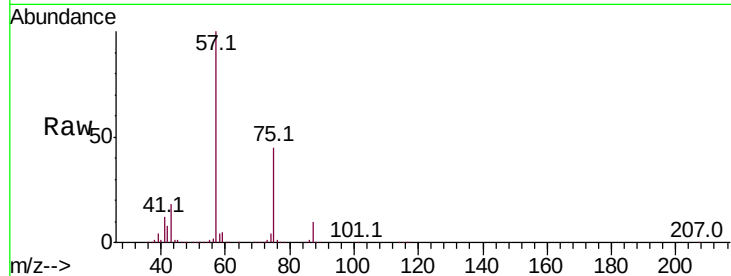




#59
2-Hexanone
Concen: 87.331 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

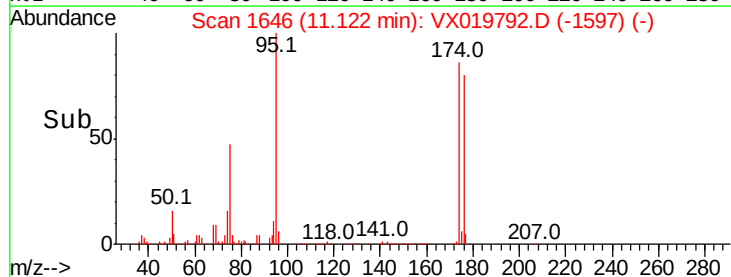
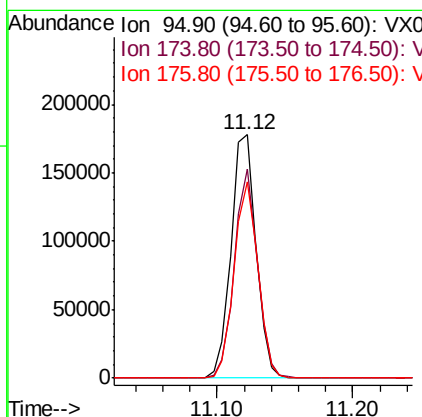
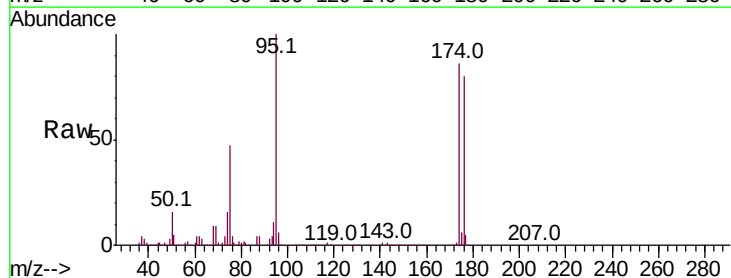
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

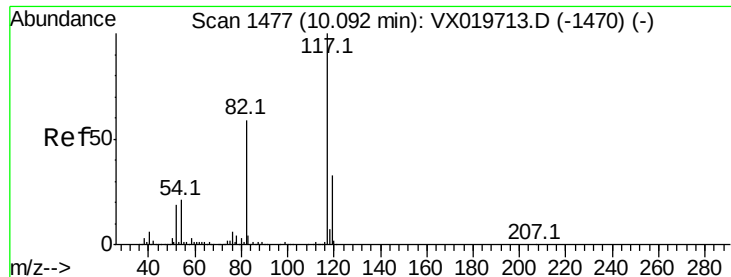
Tot Ion: 43 Resp: 328834
Ion Ratio Lower Upper
43 100
58 20.8 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 45.245 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion: 95 Resp: 227912
Ion Ratio Lower Upper
95 100
174 79.3 0.0 154.6
176 76.9 0.0 155.8

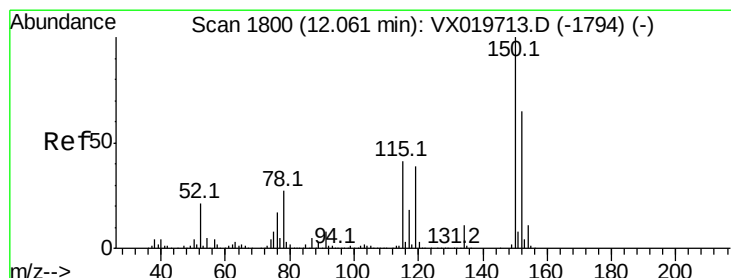
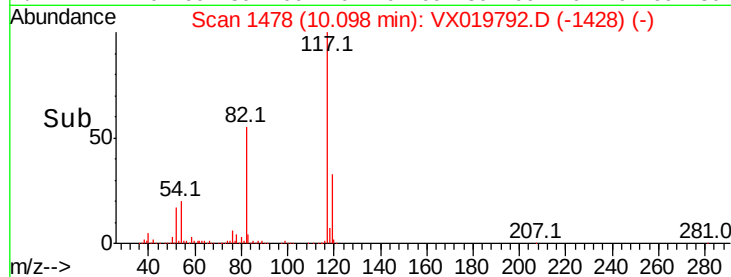
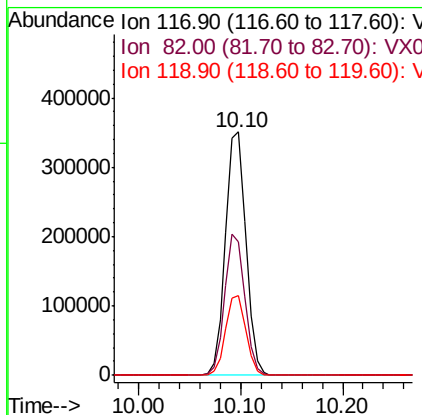
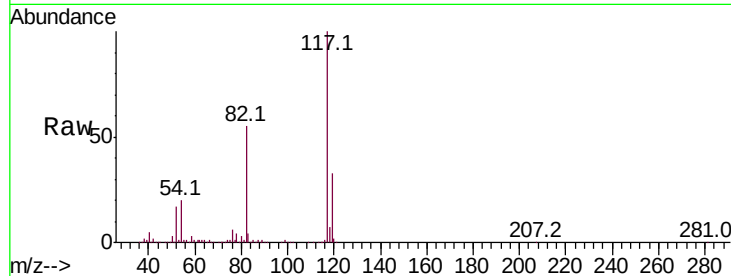




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

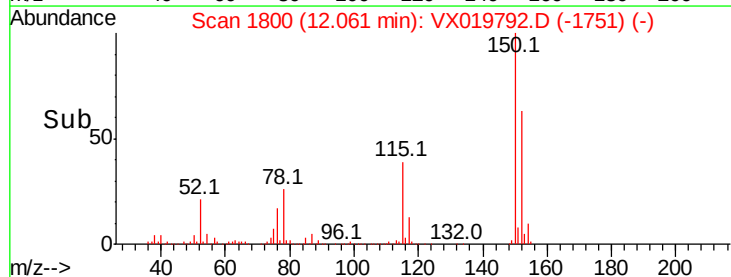
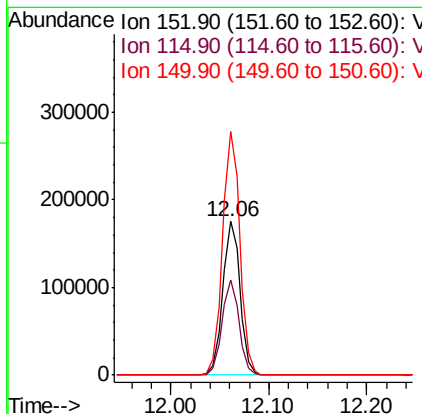
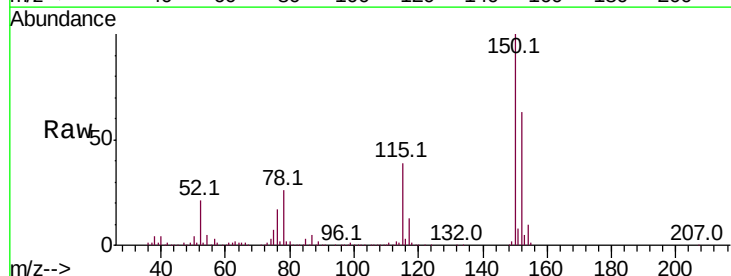
Instrument :
MSVOA_X
ClientSampleId :
5S2-D-BOTTOM

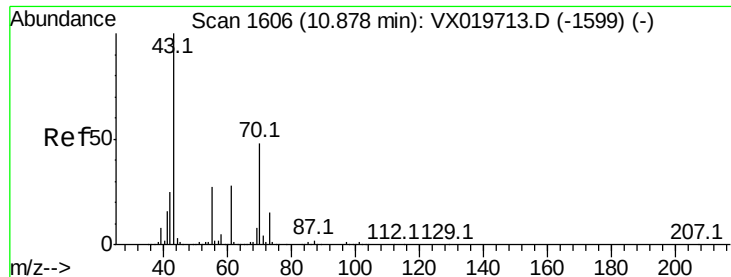
Tot Ion:117 Resp: 489090
Ion Ratio Lower Upper
117 100
82 55.0 47.4 71.2
119 32.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019792.D
Acq: 09 Dec 2020 20:27

Tgt Ion:152 Resp: 214617
Ion Ratio Lower Upper
152 100
115 60.3 41.1 123.3
150 158.7 0.0 349.0





#74

N-amvl acetate

Concen: 0.208 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-BOTTOM

Tot Ion: 43 Resp: 1224

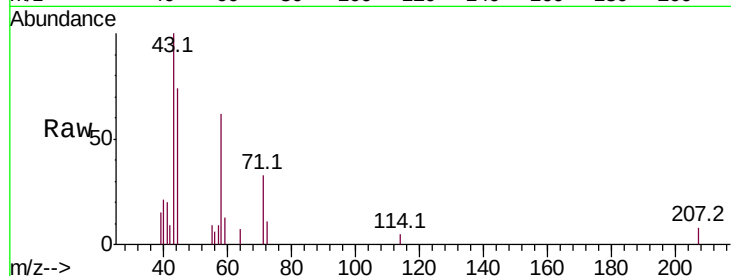
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 10.1 21.5 32.3#

61 0.0 22.1 33.1#

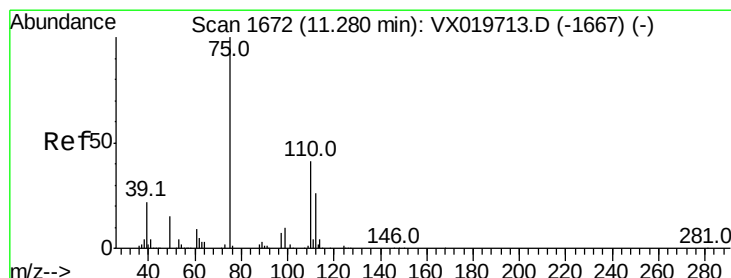
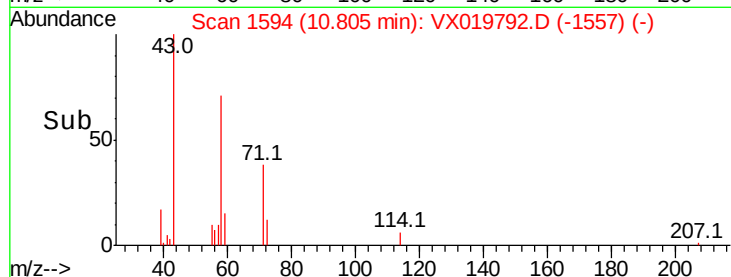
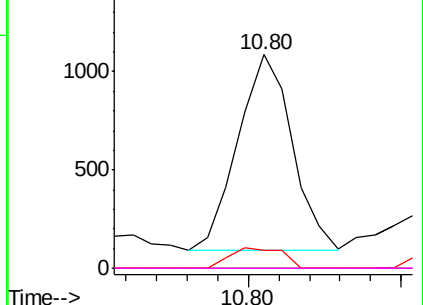


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.885 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019792.D

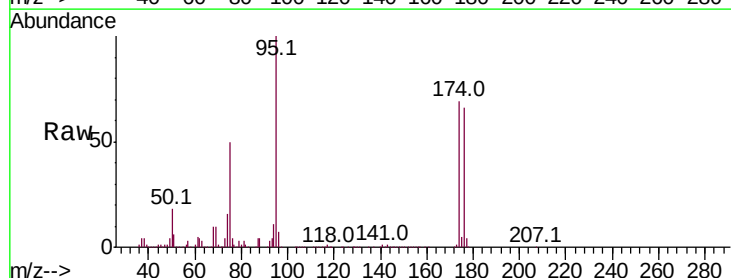
Acq: 09 Dec 2020 20:27

Tgt Ion: 75 Resp: 110156

Ion Ratio Lower Upper

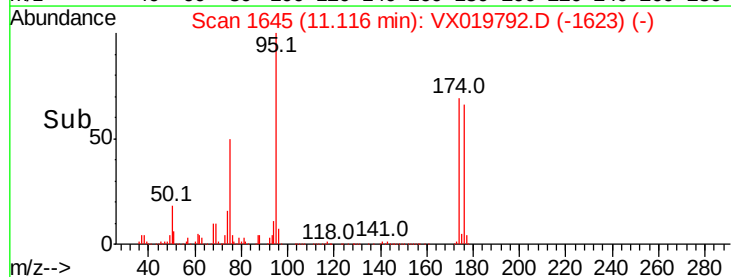
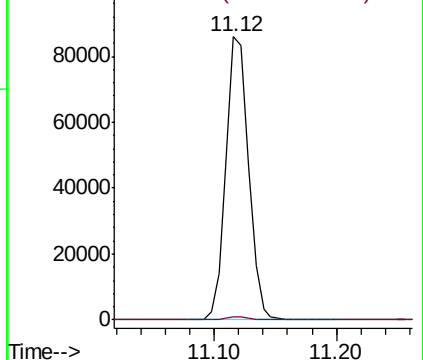
75 100

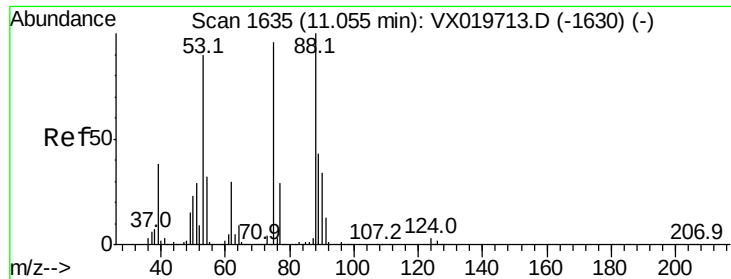
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.156 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019792.D

Acq: 09 Dec 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

5S2-D-BOTTOM

Tot Ion: 75 Resp: 110156

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

