

Data File : VX019598.D
Acq On : 24 Nov 2020 12:25
Operator : JC/MD
Sample : L4839-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B1-GW

Quant Time: Nov 25 04:00:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	335898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	545394	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	491073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	201707	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	204213	46.89	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.78%
35) Dibromofluoromethane	5.46	113	163214	47.68	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.36%
50) Toluene-d8	8.70	98	657792	49.45	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.90%
62) 4-Bromofluorobenzene	11.12	95	221608	46.30	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.60%

Target Compounds

					Qvalue	
5) Bromomethane	1.62	94	733	0.480	ug/l	90
6) Chloroethane	1.70	64	247	Below Cal	#	85
11) Tert butyl alcohol	2.99	59	6836	8.294	ug/l #	74
13) Acrolein	2.27	56	308	0.556	ug/l	94
15) Acrylonitrile	3.12	53	594	0.306	ug/l #	90
16) Acetone	2.42	43	5482	3.255	ug/l	93
17) Carbon Disulfide	2.54	76	2796	0.312	ug/l #	91
18) Methyl Acetate	2.75	43	1429	0.976	ug/l #	85
20) Methylene Chloride	2.83	84	1290	0.306	ug/l #	82
25) 2-Butanone	4.65	43	1163	0.460	ug/l #	79
29) Tetrahydrofuran	5.09	42	399	0.247	ug/l #	88
31) Cyclohexane	5.62	56	6714	1.185	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24861	4.862	ug/l #	49
38) Carbon Tetrachloride	5.62	117	32523	6.572	ug/l #	16
44) Trichloroethene	7.20	130	1294	0.314	ug/l	87
49) 1,4-Dioxane	7.73	88	52	0.606	ug/l #	1
59) 2-Hexanone	9.48	43	1095	0.307	ug/l	67
70) Styrene	10.70	104	682	1.702	ug/l	87
76) 1,2,3-Trichloropropane	11.12	75	108648	24.682	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	108648	65.253	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	993	0.235	ug/l	97
94) Hexachlorobutadiene	13.76	225	585	0.304	ug/l	95
95) Naphthalene	13.82	128	2413	2.333	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.00	180	977	0.232	ug/l	87

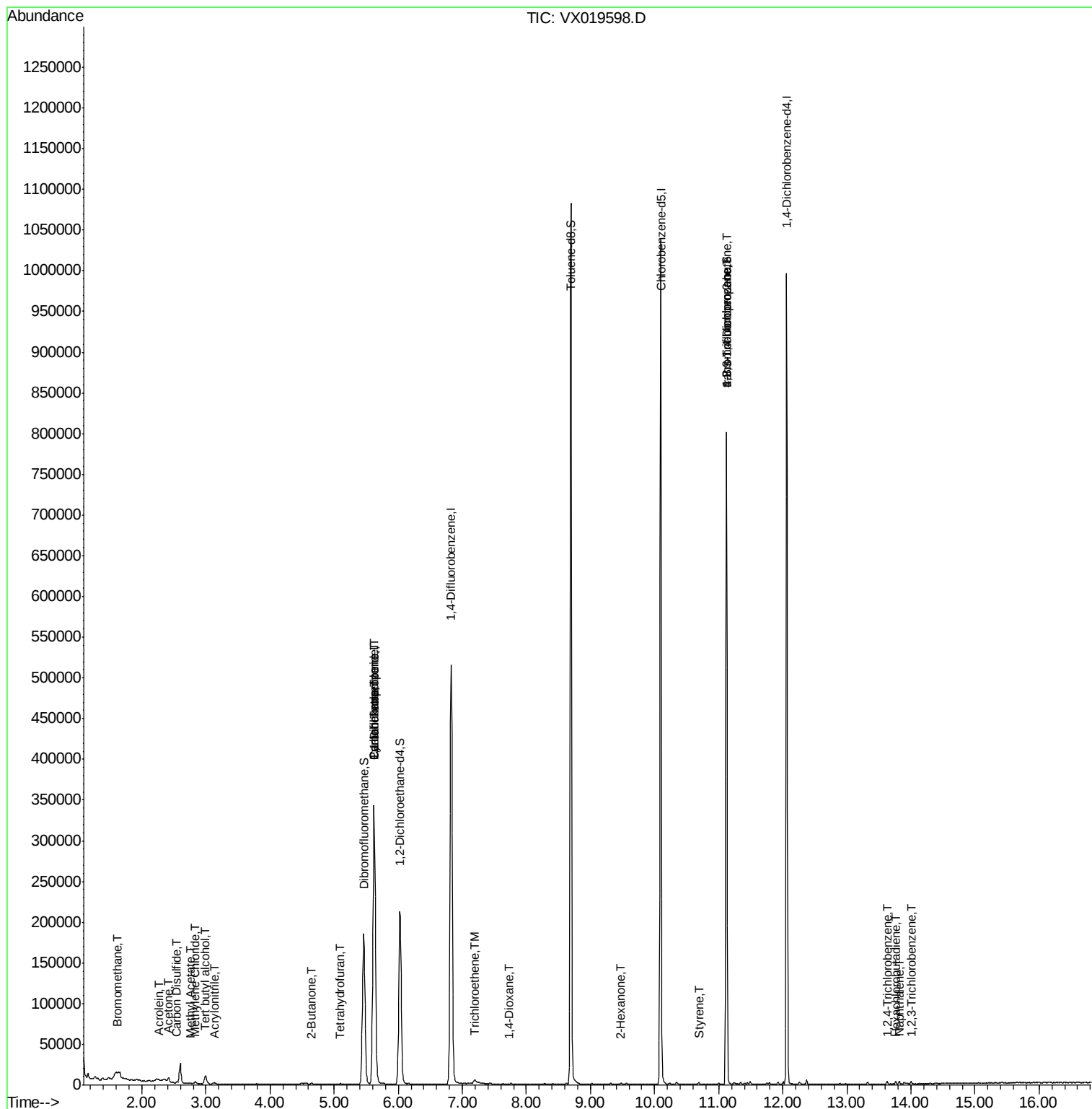
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VX019598.D

```
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Operator    : JC/MD
Sample      : L4839-03
Misc       : 5.0mL/MSV0A_X/WATER
ALS Vial    : 6      Sample Multiplier: 1
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Instrument :
MSVOA_X
ClientSampleId :
B1-GW

Quant Time: Nov 25 04:00:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

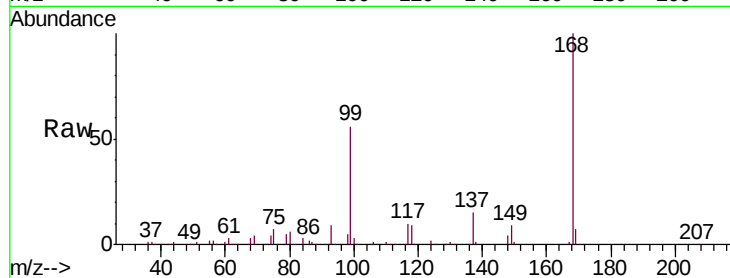
B1-GW

Tgt Ion:168 Resp: 335898

Ion Ratio Lower Upper

168 100

99 56.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

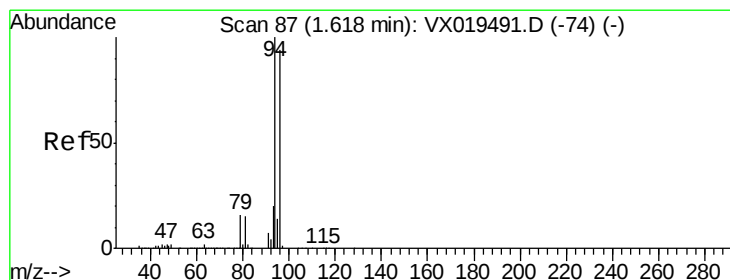
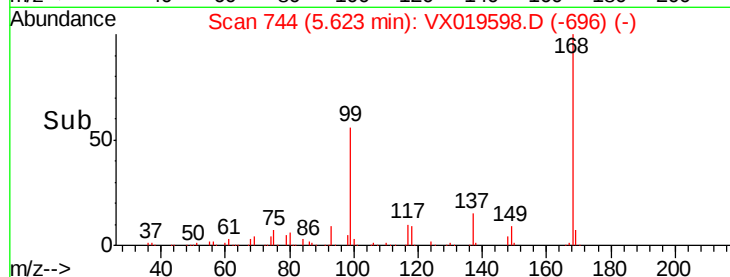
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.480 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019598.D

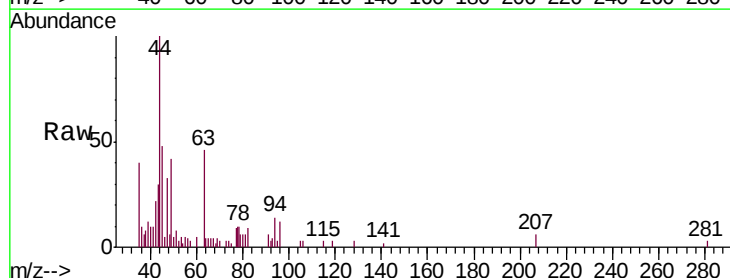
Acq: 24 Nov 2020 12:25

Tgt Ion: 94 Resp: 733

Ion Ratio Lower Upper

94 100

96 85.0 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

400

300

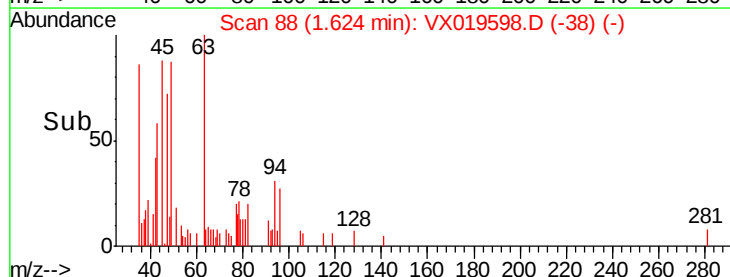
200

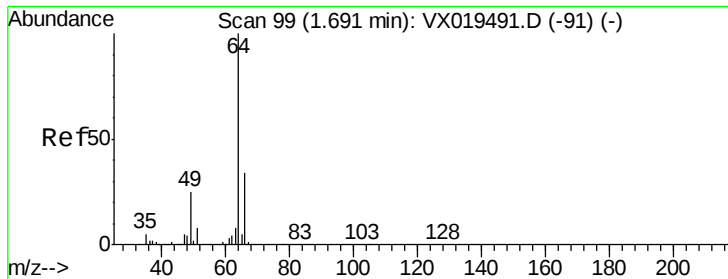
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. 0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampled :

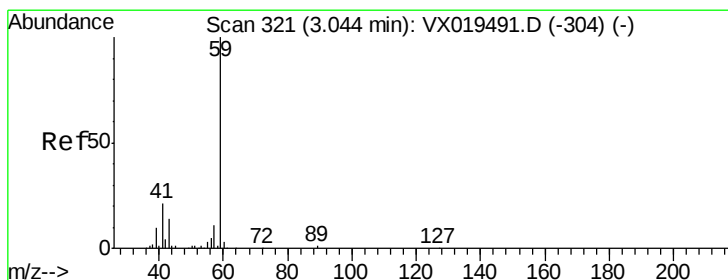
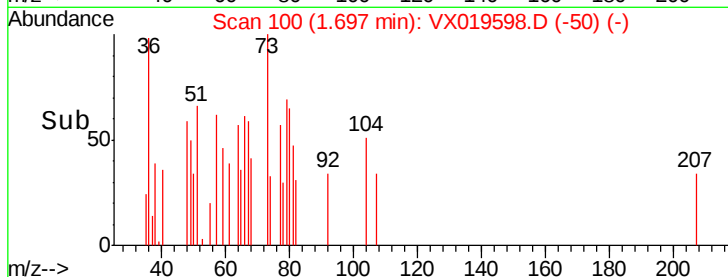
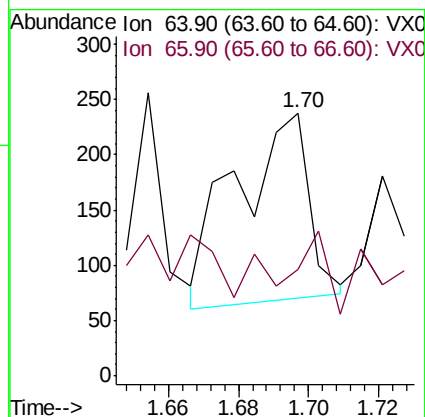
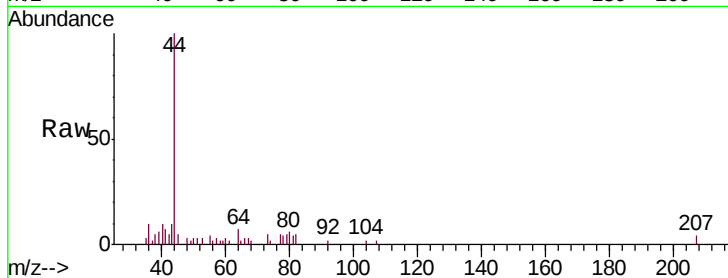
B1-GW

Tgt Ion: 64 Resp: 247

Ion Ratio Lower Upper

64 100

66 25.5 27.1 40.7#



#11

Tert butyl alcohol

Concen: 8.294 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019598.D

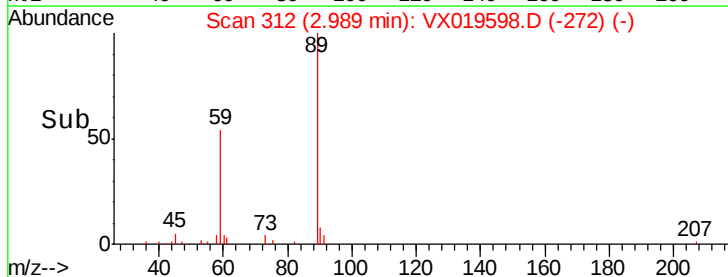
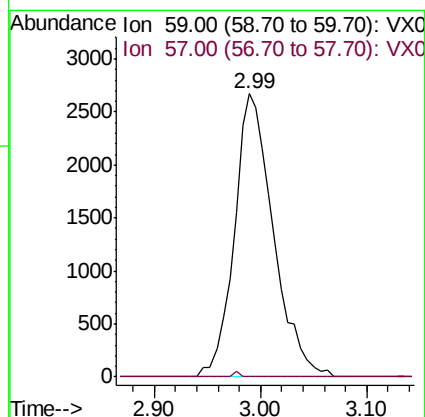
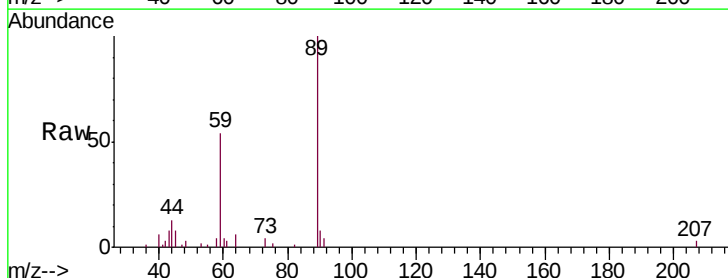
Acq: 24 Nov 2020 12:25

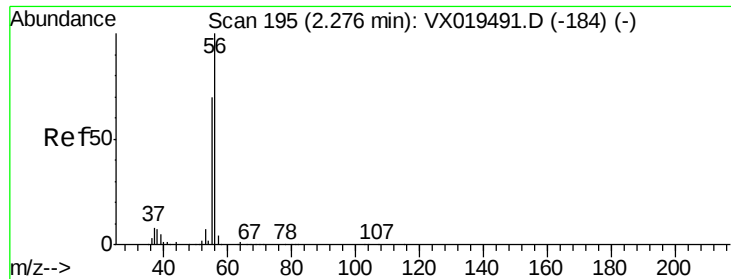
Tgt Ion: 59 Resp: 6836

Ion Ratio Lower Upper

59 100

57 0.3 7.9 11.9#





#13

Acrolein

Concen: 0.556 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

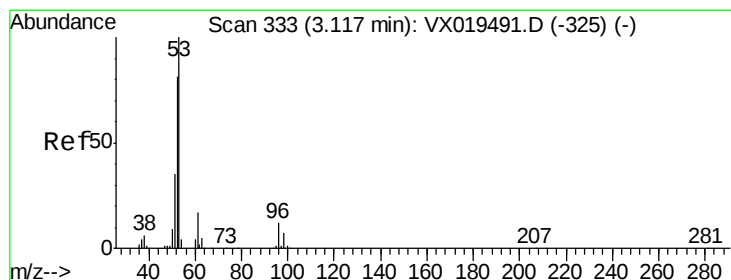
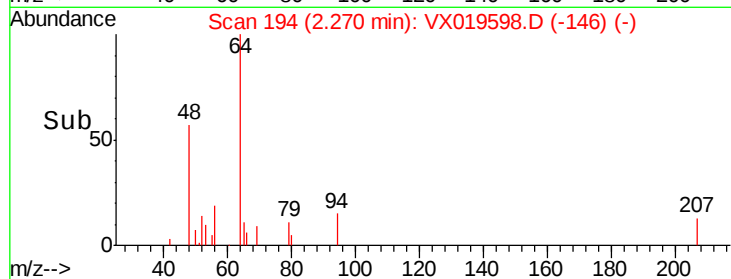
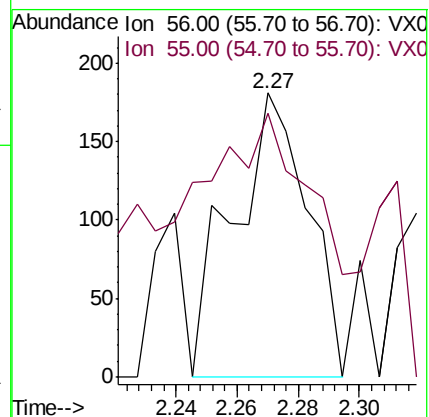
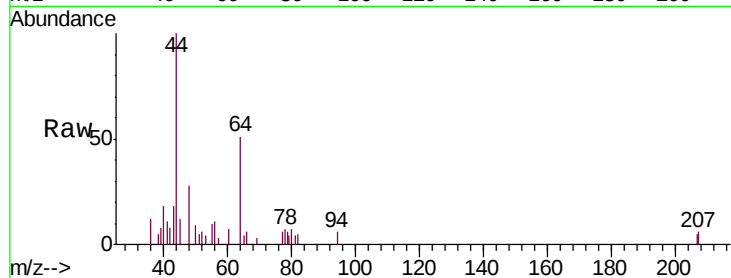
B1-GW

Tgt Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 64.6 55.5 83.3



#15

Acrylonitrile

Concen: 0.306 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

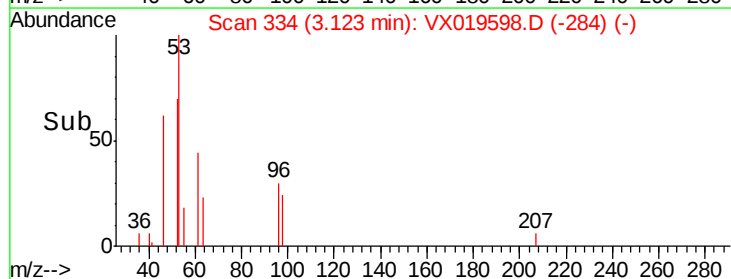
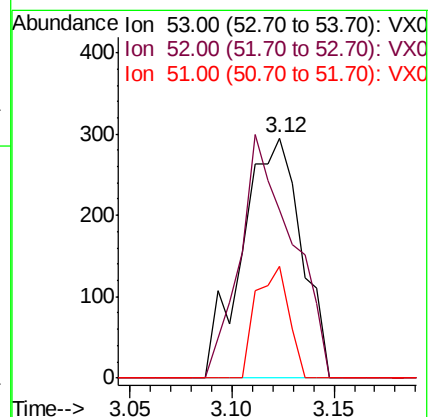
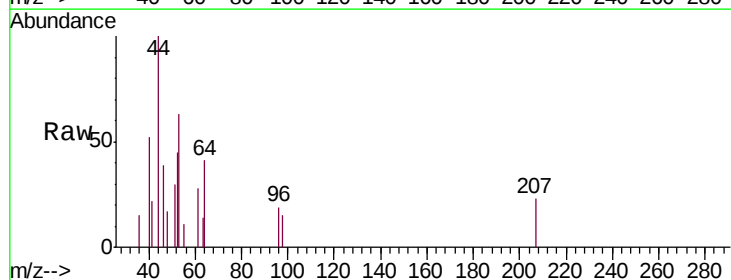
Tgt Ion: 53 Resp: 594

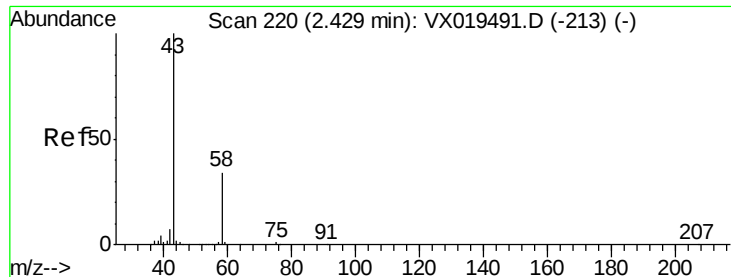
Ion Ratio Lower Upper

53 100

52 89.4 66.2 99.2

51 25.9 28.5 42.7#





#16

Acetone

Concen: 3.255 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

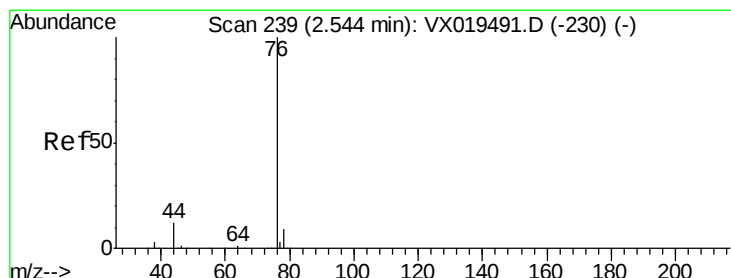
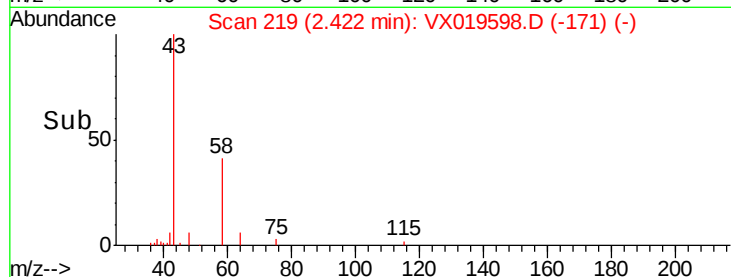
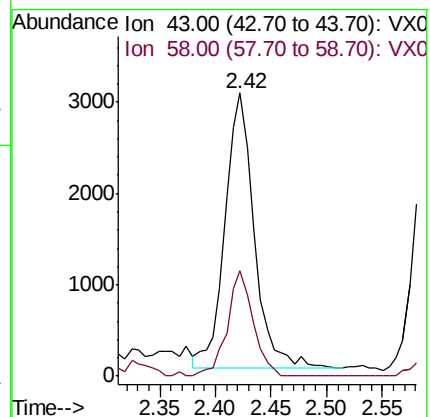
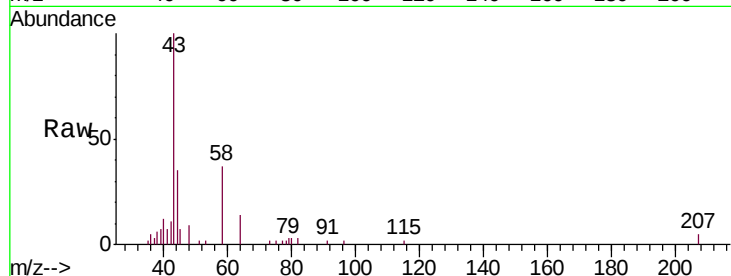
B1-GW

Tgt Ion: 43 Resp: 5482

Ion Ratio Lower Upper

43 100

58 38.1 27.4 41.2



#17

Carbon Disulfide

Concen: 0.312 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.00 min

Lab File: VX019598.D

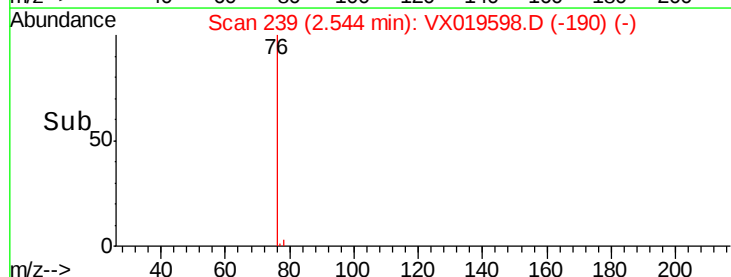
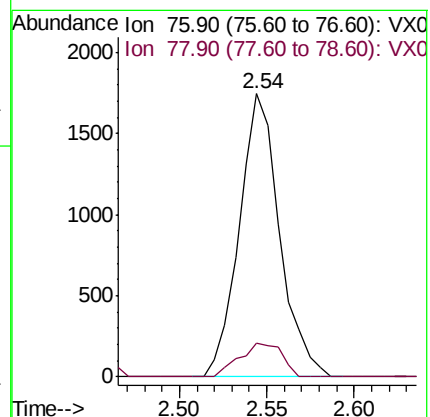
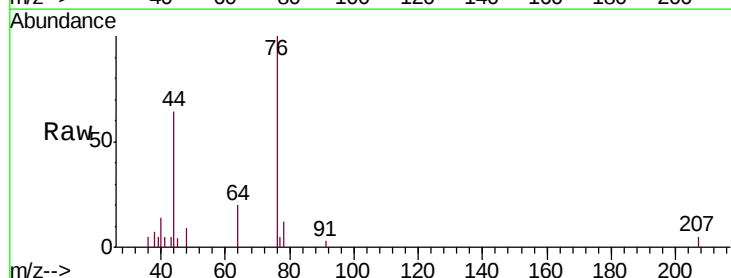
Acq: 24 Nov 2020 12:25

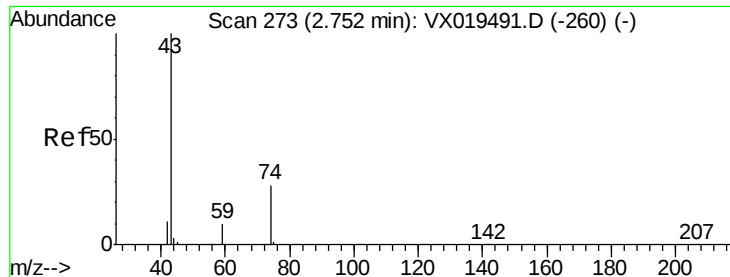
Tgt Ion: 76 Resp: 2796

Ion Ratio Lower Upper

76 100

78 12.1 7.2 10.8#

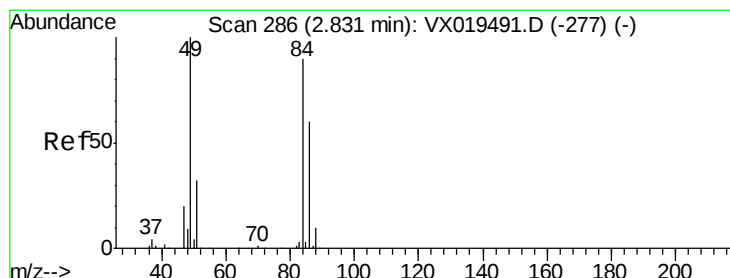
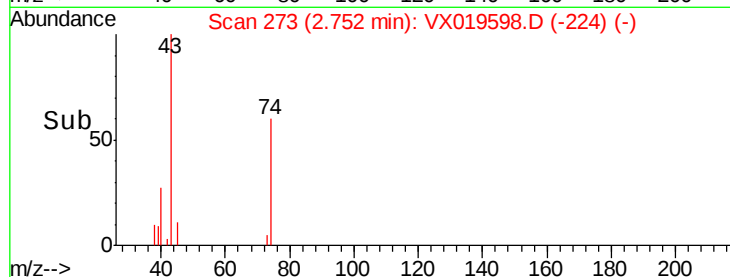
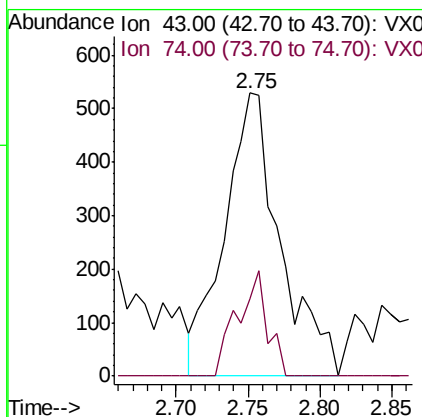
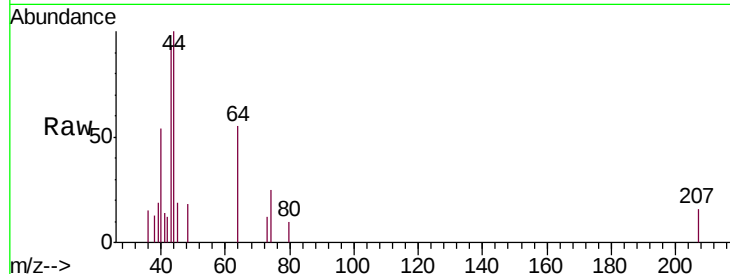




#18
Methyl Acetate
Concen: 0.976 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

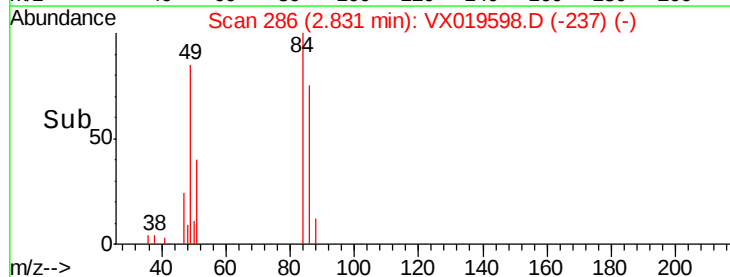
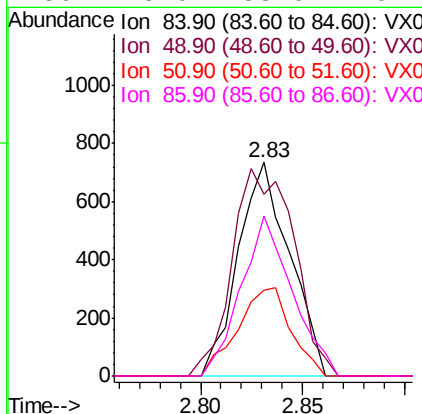
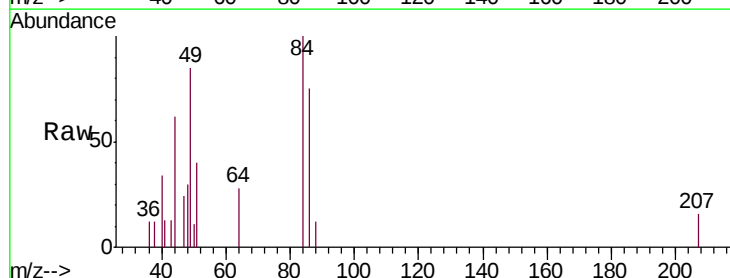
Instrument :
MSVOA_X
ClientSampled :
B1-GW

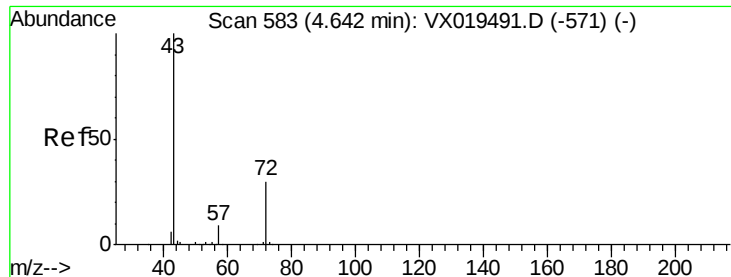
Tgt Ion: 43 Resp: 1429
Ion Ratio Lower Upper
43 100
74 19.9 22.2 33.4#



#20
Methylene Chloride
Concen: 0.306 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Tgt Ion: 84 Resp: 1290
Ion Ratio Lower Upper
84 100
49 85.0 88.5 132.7#
51 40.1 28.0 42.0
86 75.0 53.0 79.4





#25

2-Butanone

Concen: 0.460 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

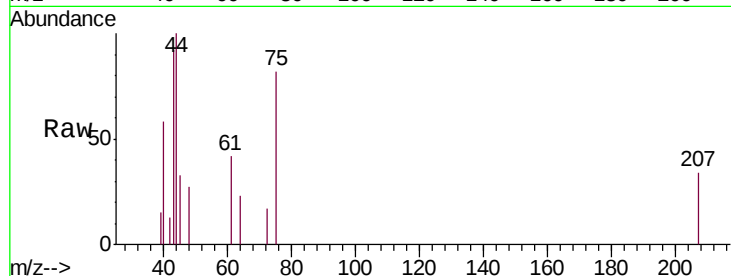
B1-GW

Tgt Ion: 43 Resp: 1163

Ion Ratio Lower Upper

43 100

72 18.9 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.65

400

300

200

100

0

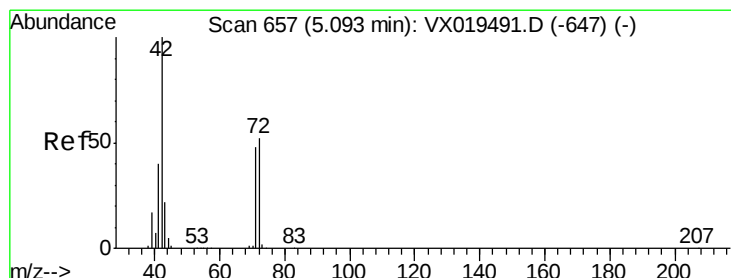
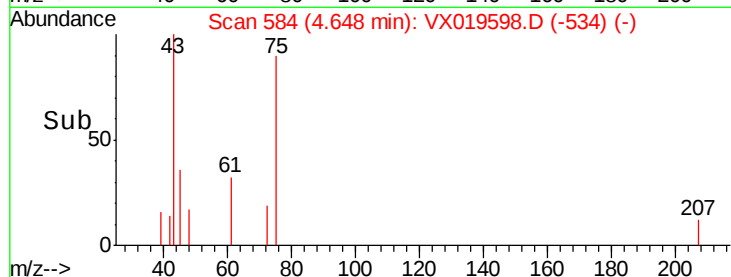
4.55

4.60

4.65

4.70

Time-->



#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 5.09 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

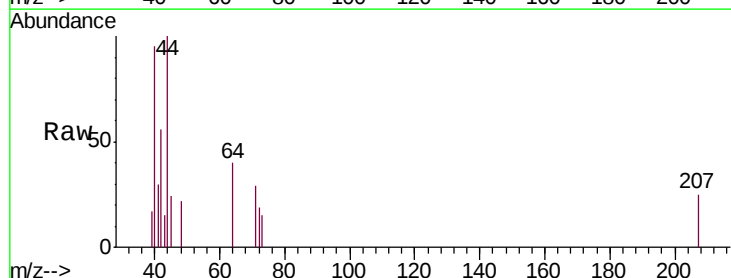
Tgt Ion: 42 Resp: 399

Ion Ratio Lower Upper

42 100

72 55.9 42.6 63.8

71 33.8 39.0 58.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

250

200

150

100

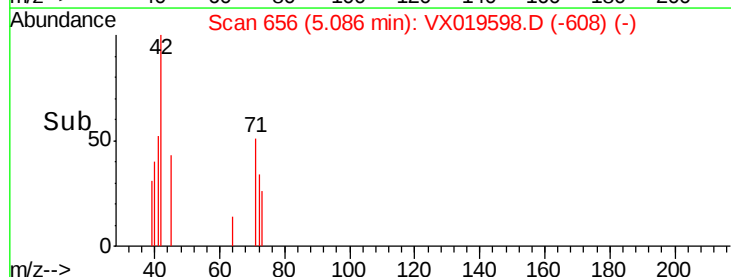
50

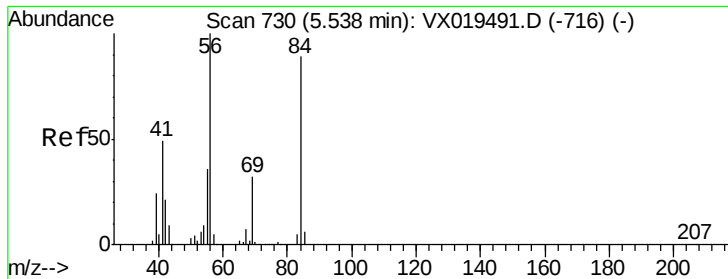
0

5.05

5.10

Time-->

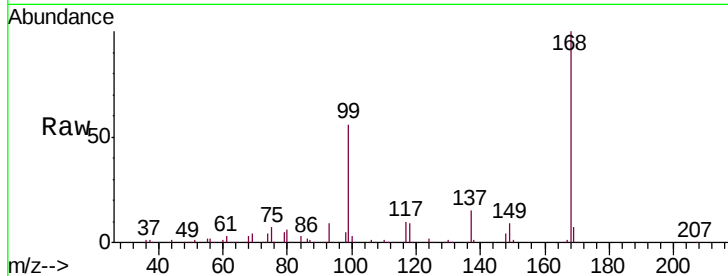




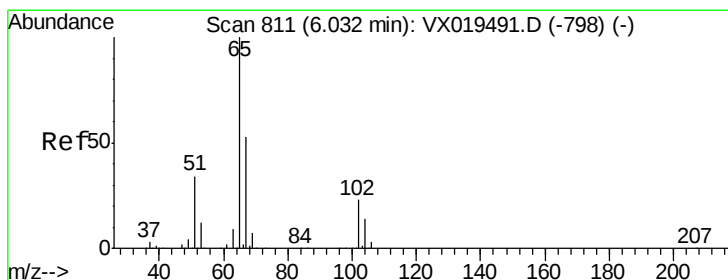
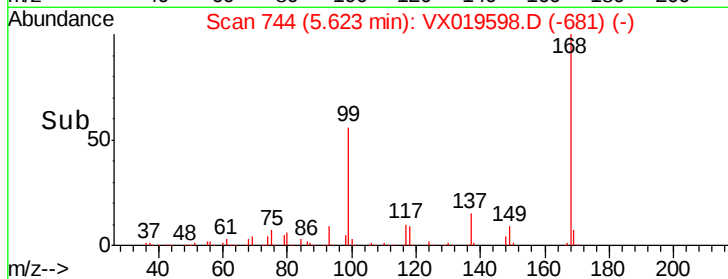
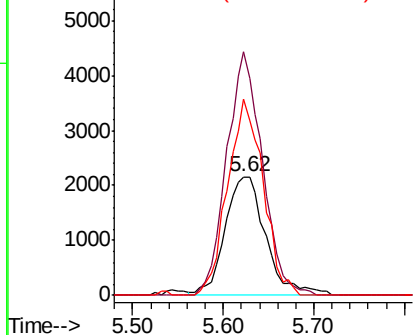
#31
Cyclohexane
Concen: 1.185 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Instrument :
MSVOA_X
ClientSampleId :
B1-GW

Tgt Ion: 56 Resp: 6714
Ion Ratio Lower Upper
56 100
69 205.8 25.5 38.3#
84 166.2 71.1 106.7#

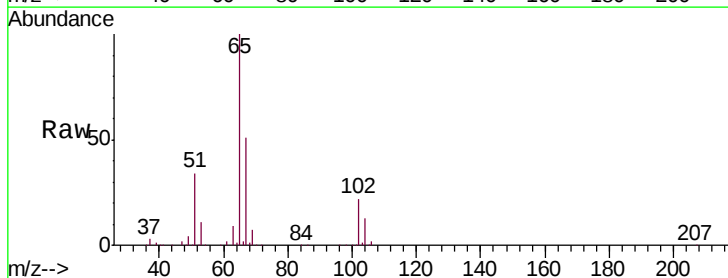


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

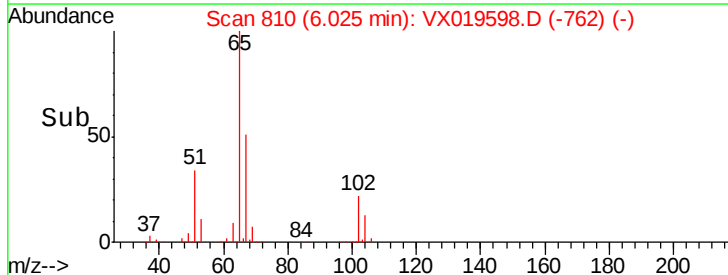
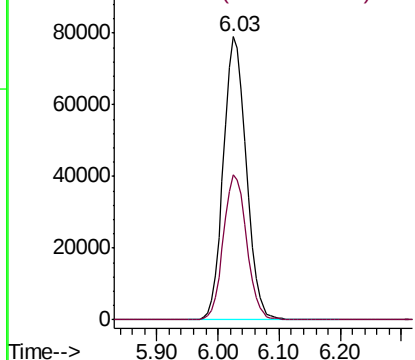


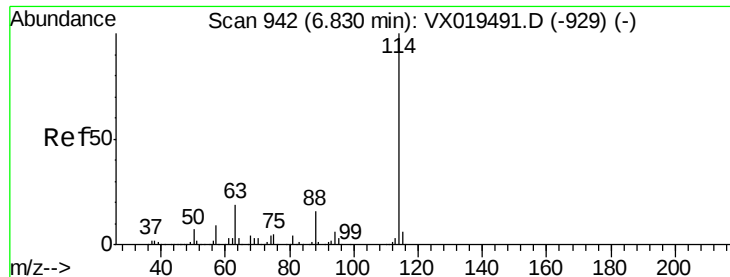
#33
1,2-Dichloroethane-d4
Concen: 46.889 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.01 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Tgt Ion: 65 Resp: 204213
Ion Ratio Lower Upper
65 100
67 52.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

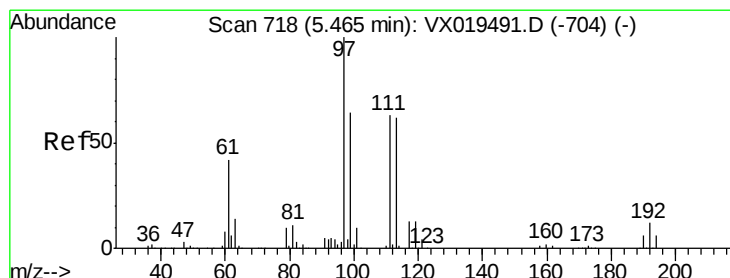
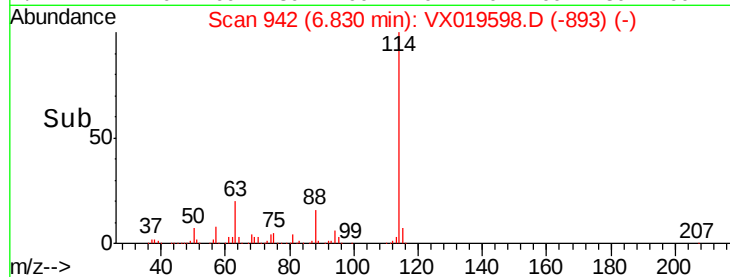
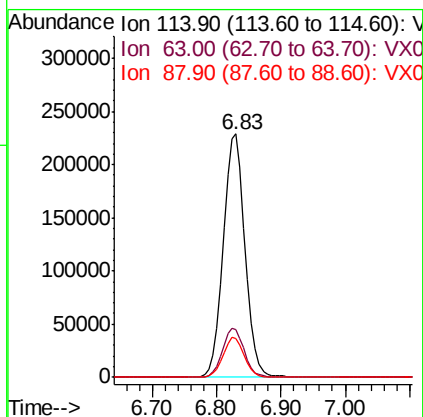
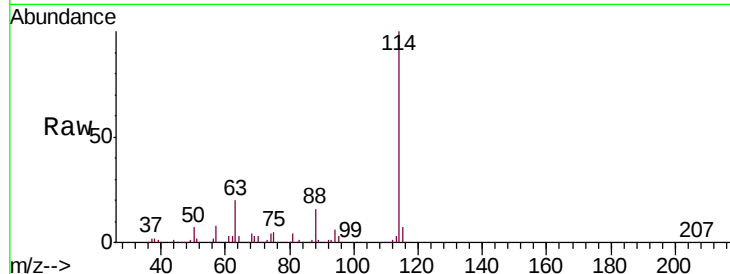




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

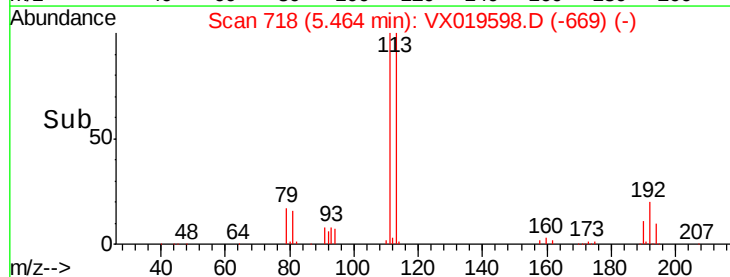
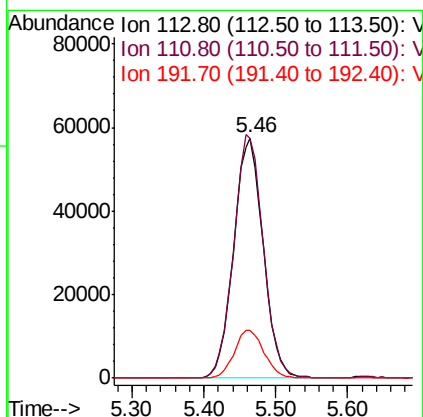
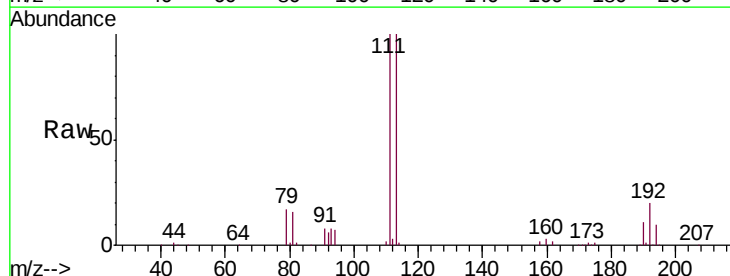
Instrument :
 MSVOA_X
 ClientSampleId :
 B1-GW

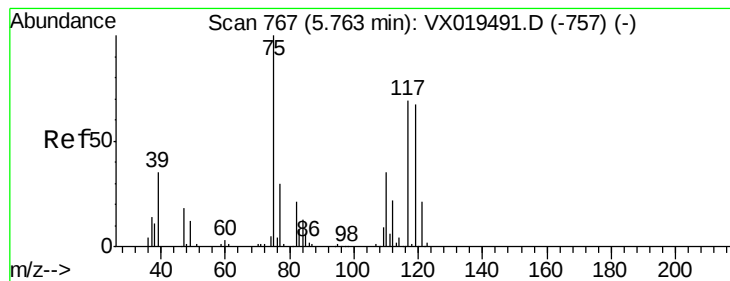
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.8
88	16.0	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 47.675 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.5	122.3
192	20.2	16.2	24.2





#36

1,1-Dichloropropene

Concen: 4.862 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

B1-GW

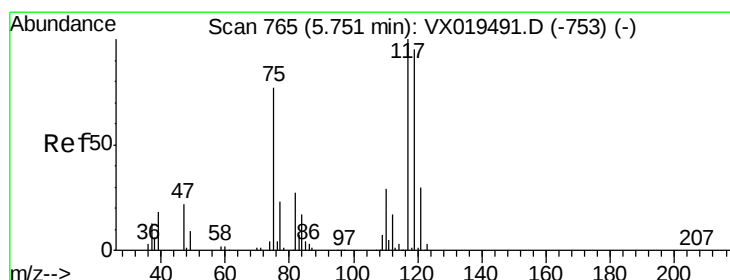
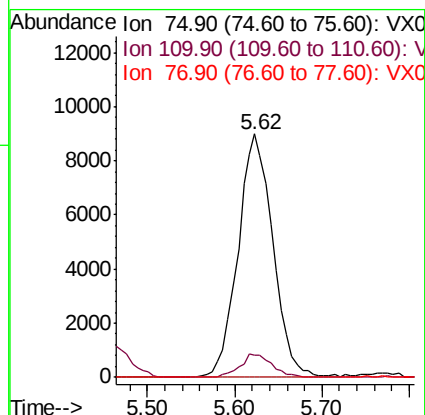
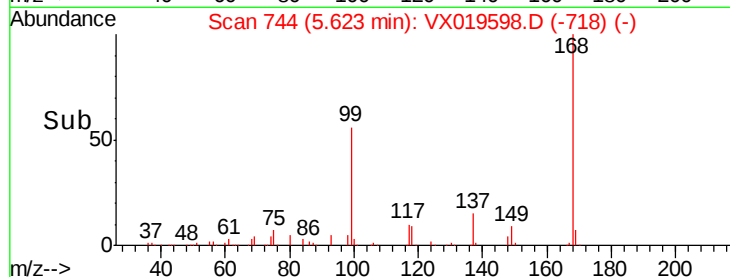
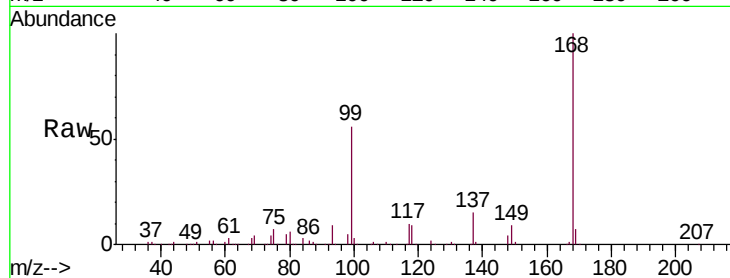
Tgt Ion: 75 Resp: 24861

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 6.572 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

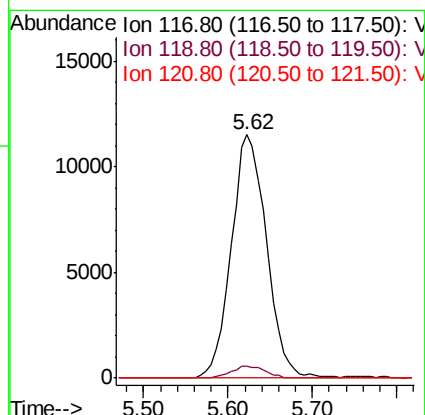
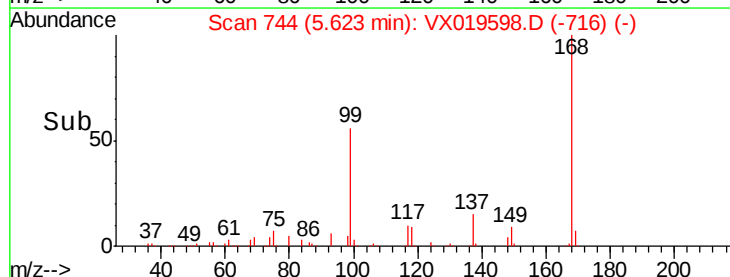
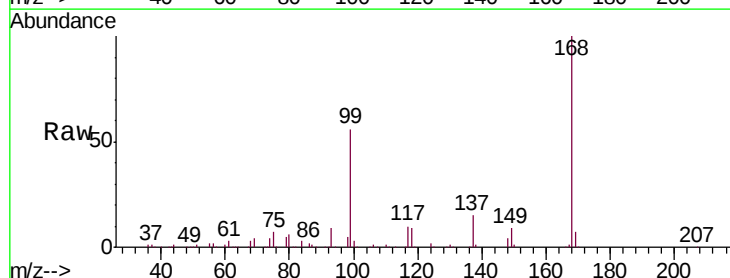
Tgt Ion: 117 Resp: 32523

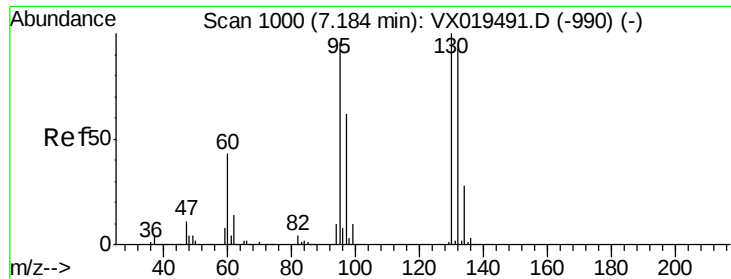
Ion Ratio Lower Upper

117 100

119 5.0 75.9 113.9#

121 0.0 24.0 36.0#

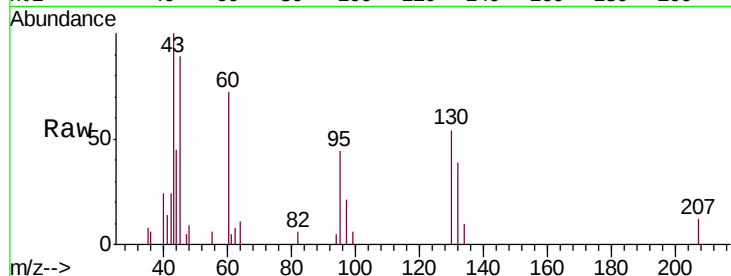




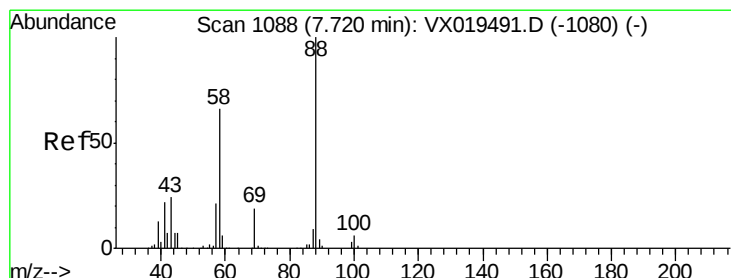
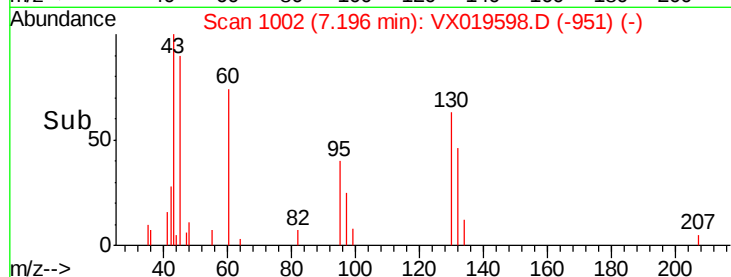
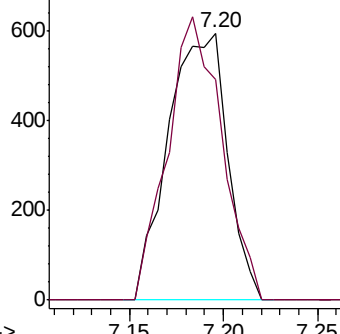
#44
 Trichloroethene
 Concen: 0.314 ug/l
 RT: 7.20 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

Instrument :
 MSVOA_X
 ClientSampleId :
 B1-GW

Tgt Ion: 130 Resp: 1294
 Ion Ratio Lower Upper
 130 100
 95 82.6 0.0 191.2

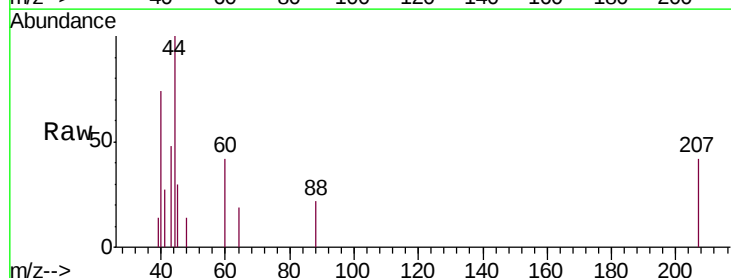


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

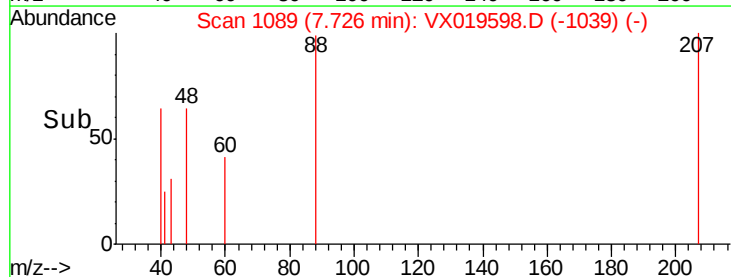
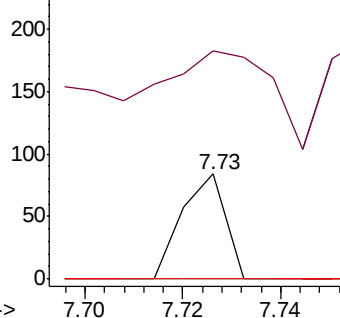


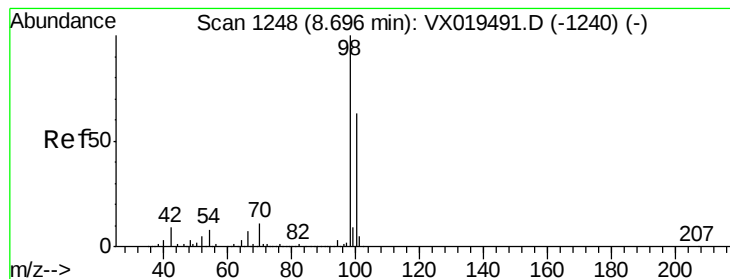
#49
 1,4-Dioxane
 Concen: 0.606 ug/l
 RT: 7.73 min Scan# 1089
 Delta R.T. 0.01 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

Tgt Ion: 88 Resp: 52
 Ion Ratio Lower Upper
 88 100
 43 226.9 23.8 35.6#
 58 0.0 54.2 81.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.446 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019598.D

Acq: 24 Nov 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

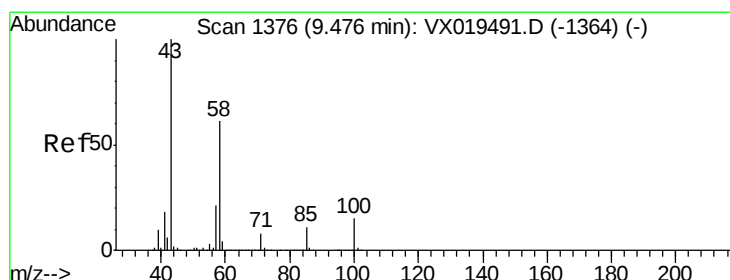
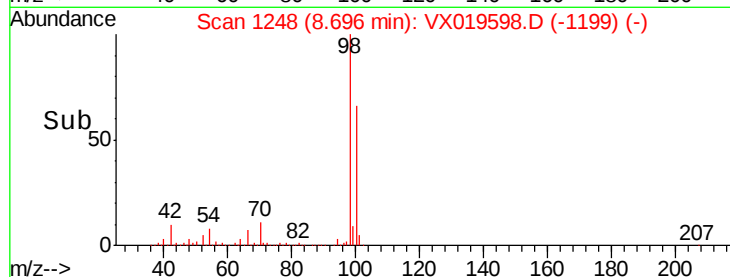
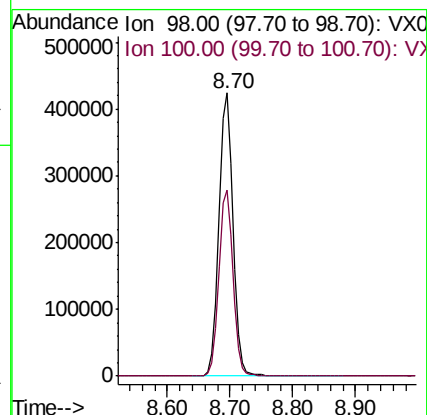
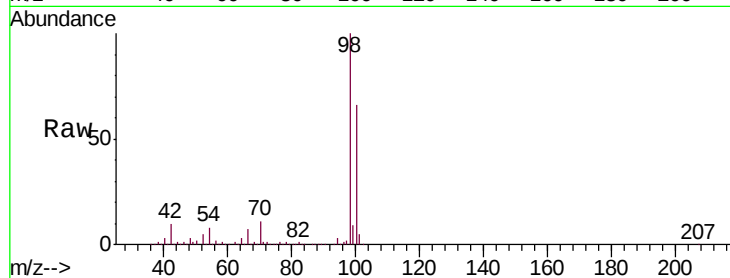
B1-GW

Tgt Ion: 98 Resp: 657792

Ion Ratio Lower Upper

98 100

100 66.1 52.4 78.6



#59

2-Hexanone

Concen: 0.307 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX019598.D

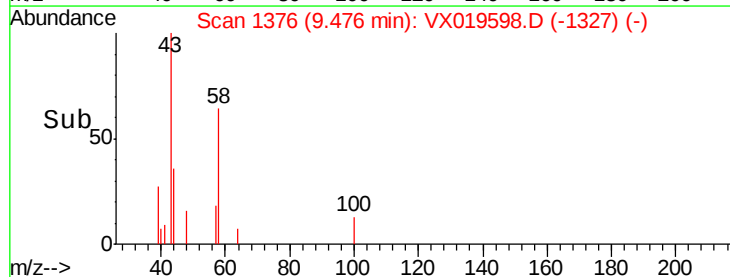
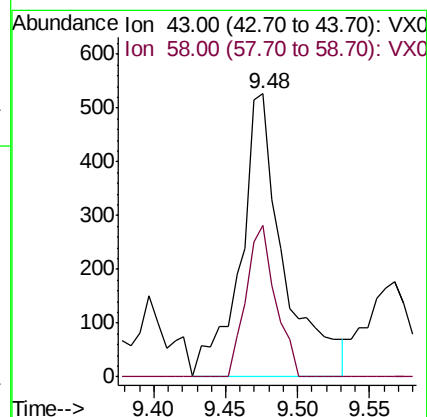
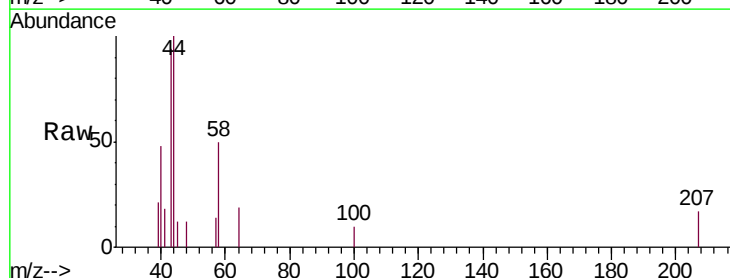
Acq: 24 Nov 2020 12:25

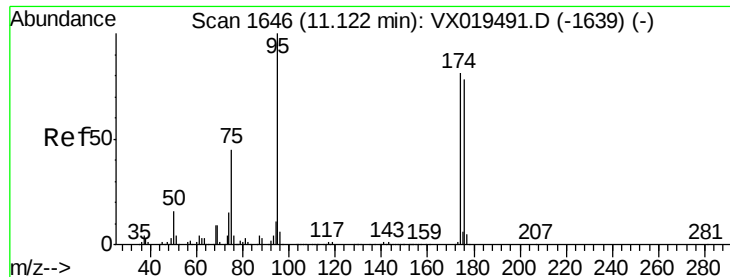
Tgt Ion: 43 Resp: 1095

Ion Ratio Lower Upper

43 100

58 36.3 30.6 91.6

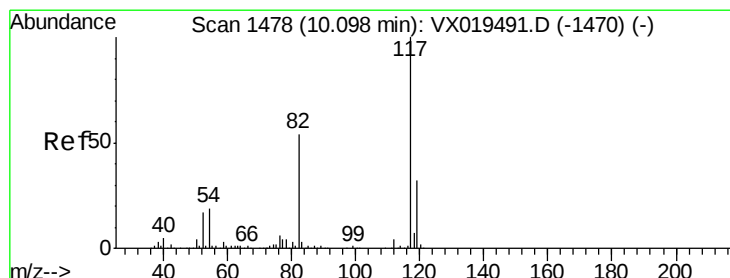
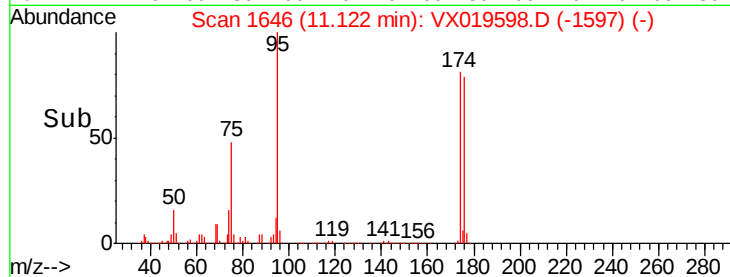
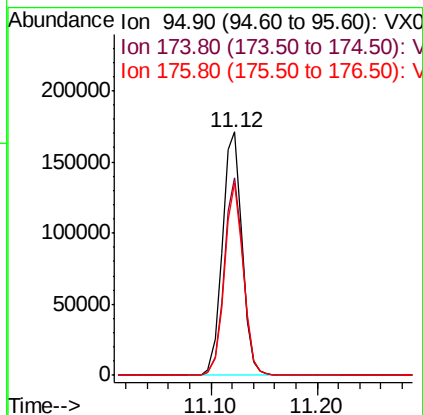
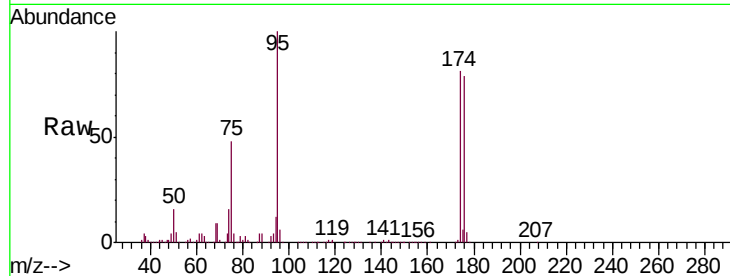




#62
4-Bromofluorobenzene
Concen: 46.301 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

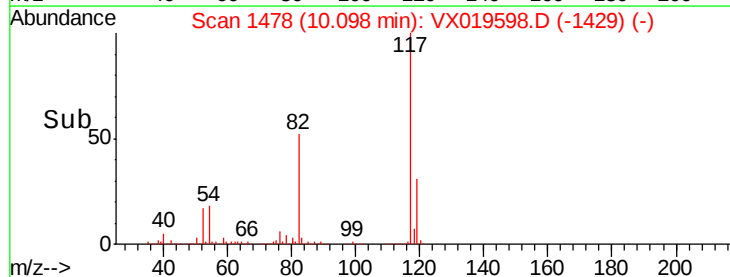
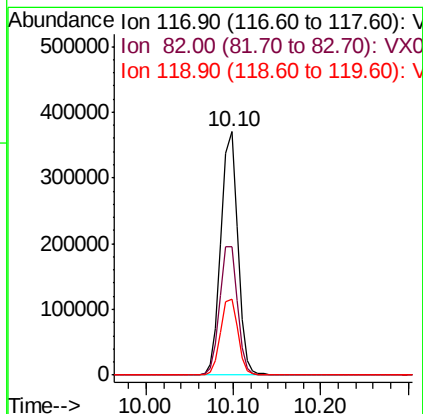
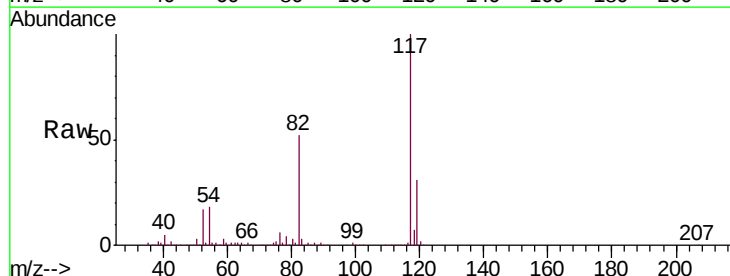
Instrument :
MSVOA_X
ClientSampleId :
B1-GW

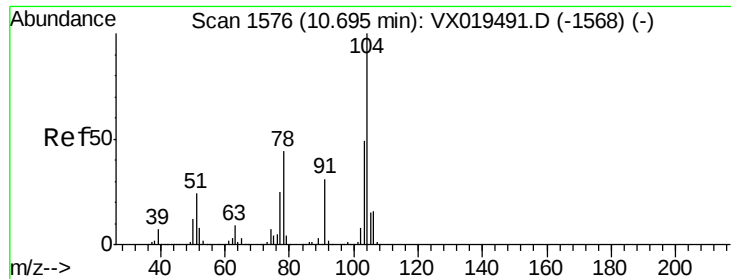
Tgt Ion: 95 Resp: 221608
Ion Ratio Lower Upper
95 100
174 78.1 0.0 156.2
176 75.6 0.0 151.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Tgt Ion: 117 Resp: 491073
Ion Ratio Lower Upper
117 100
82 52.5 43.0 64.4
119 31.1 25.6 38.4

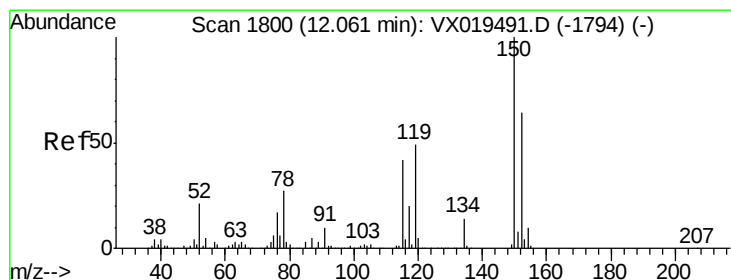
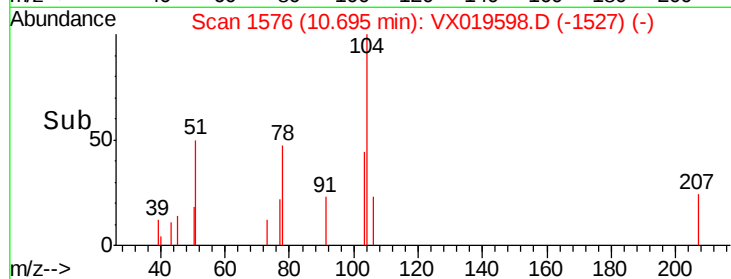
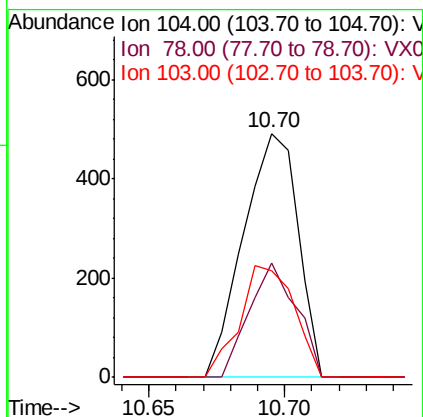
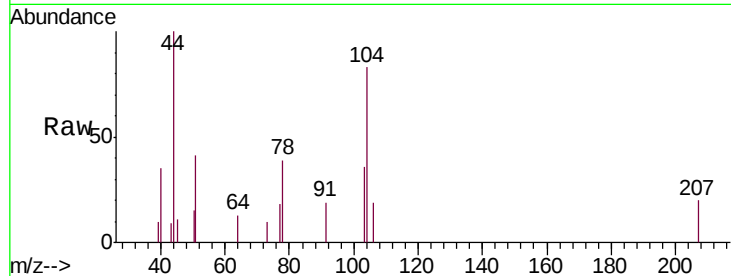




#70
Styrene
Concen: 1.702 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

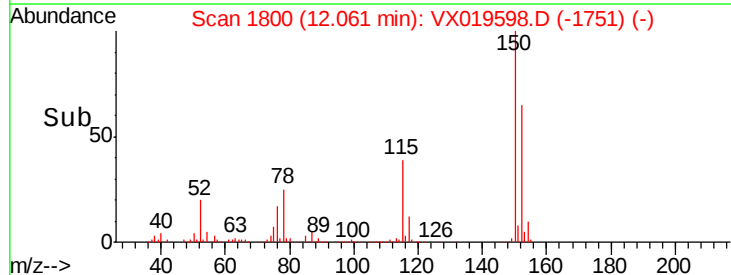
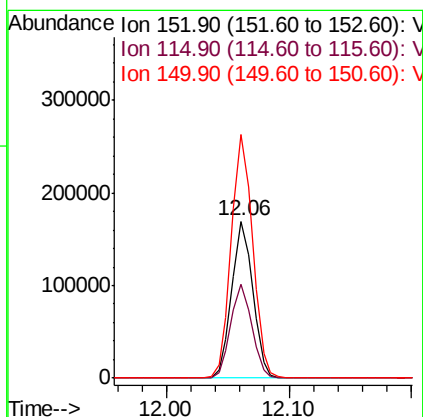
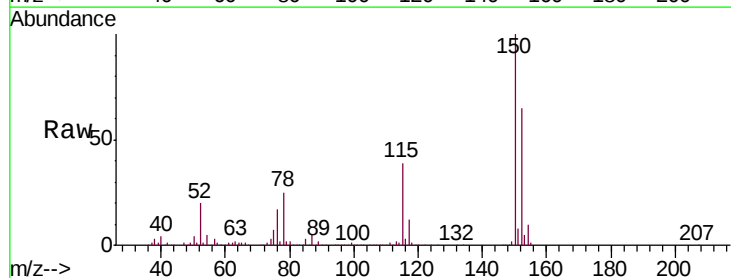
Instrument :
MSVOA_X
ClientSampleId :
B1-GW

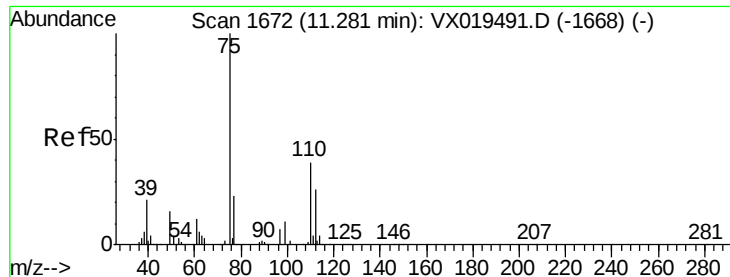
Tgt Ion:104 Resp: 682
Ion Ratio Lower Upper
104 100
78 40.3 39.5 59.3
103 45.6 43.6 65.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Tgt Ion:152 Resp: 201707
Ion Ratio Lower Upper
152 100
115 59.7 41.8 125.4
150 156.6 0.0 348.2

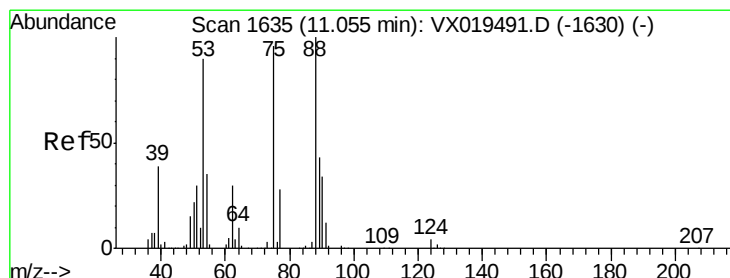
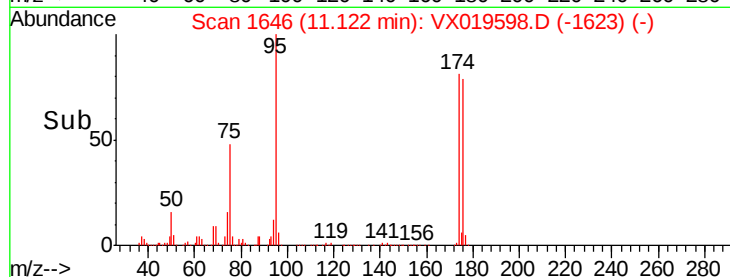
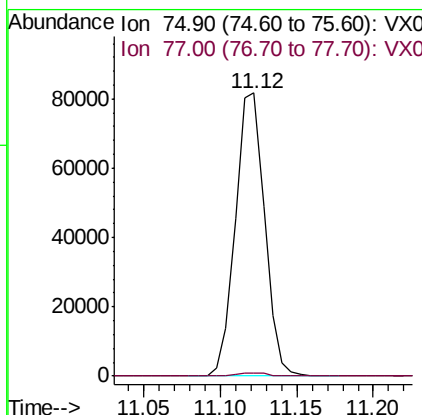
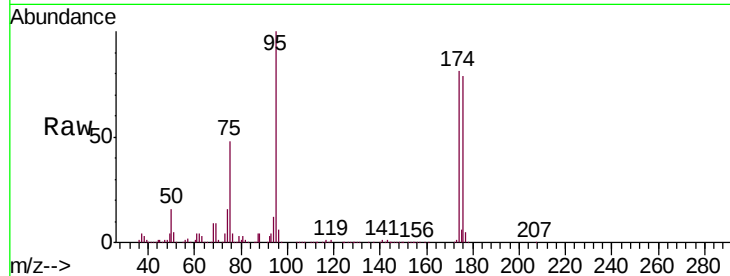




#76
 1,2,3-Trichloropropane
 Concen: 24.682 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

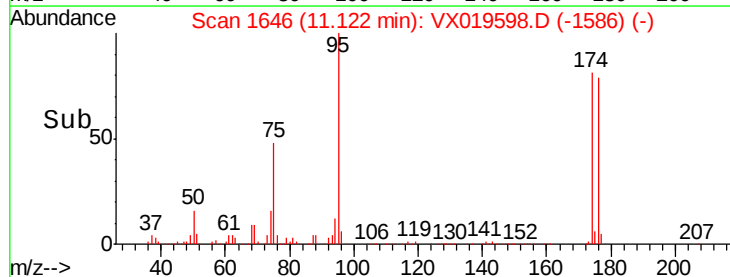
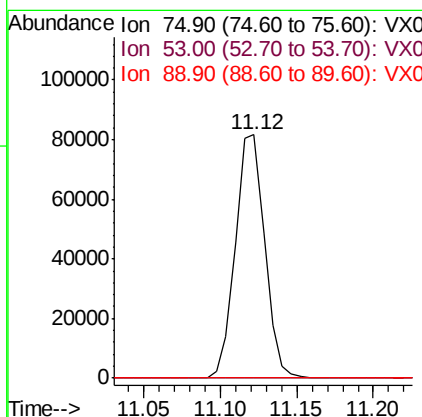
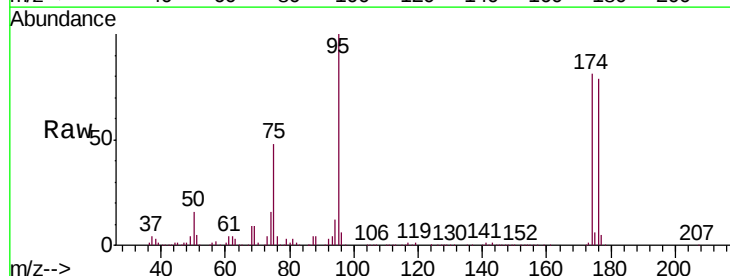
Instrument :
 MSVOA_X
 ClientSampleId :
 B1-GW

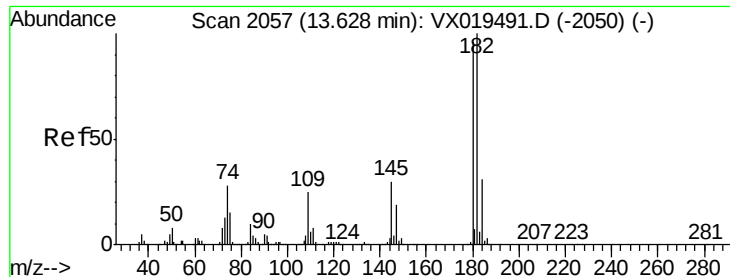
Tgt Ion: 75 Resp: 108648
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.0 60.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.253 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

Tgt Ion: 75 Resp: 108648
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.9 110.9#
 89 0.0 37.3 55.9#

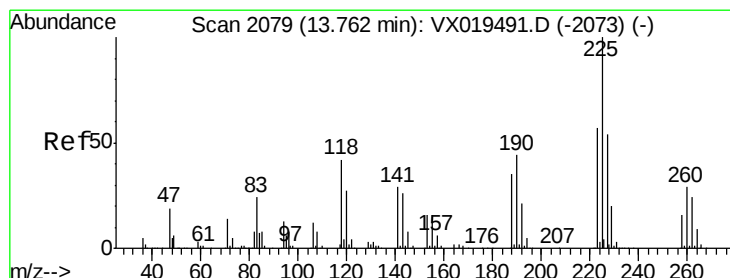
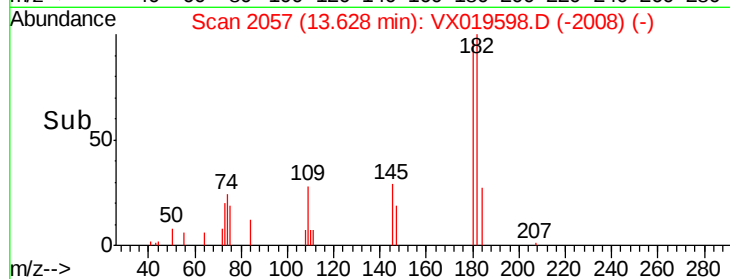
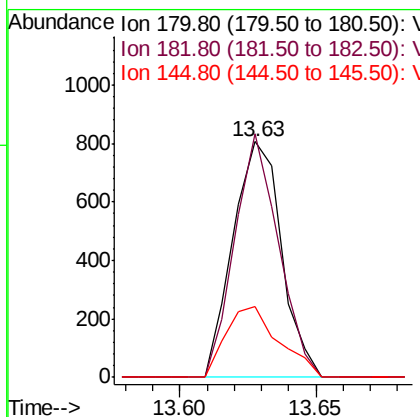
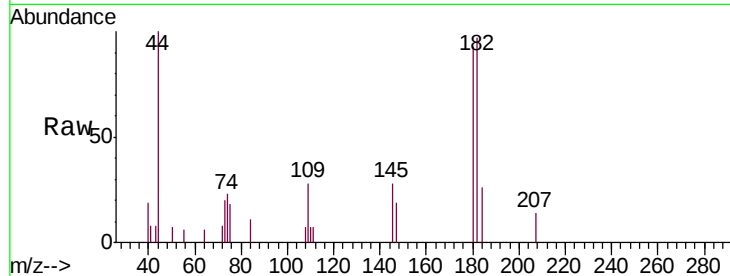




#93
 1,2,4-Trichlorobenzene
 Concen: 0.235 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

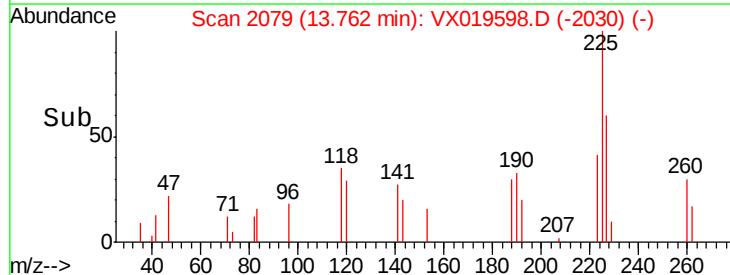
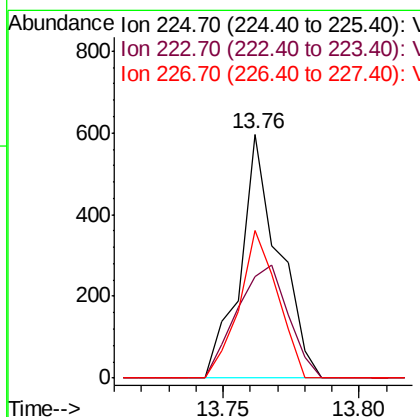
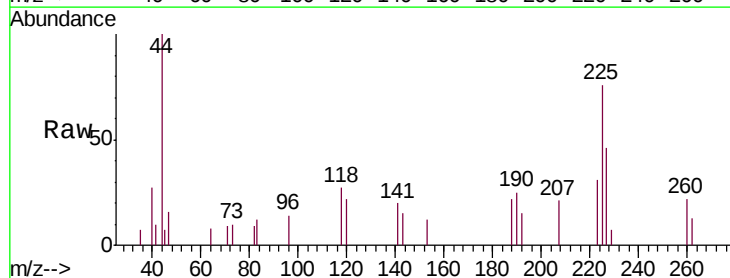
Instrument :
 MSVOA_X
 ClientSampled :
 B1-GW

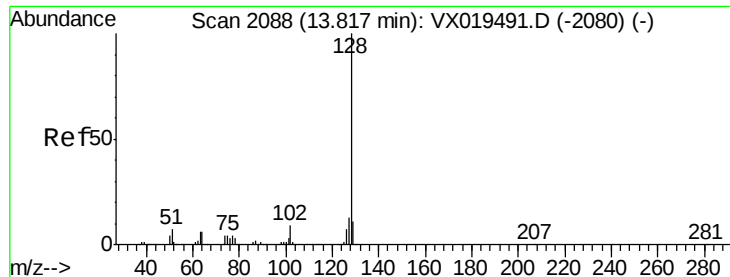
Tgt Ion:180 Resp: 993
 Ion Ratio Lower Upper
 180 100
 182 93.5 48.6 145.9
 145 32.9 15.9 47.7



#94
 Hexachlorobutadiene
 Concen: 0.304 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VX019598.D
 Acq: 24 Nov 2020 12:25

Tgt Ion:225 Resp: 585
 Ion Ratio Lower Upper
 225 100
 223 61.5 32.5 97.5
 227 60.3 32.8 98.3

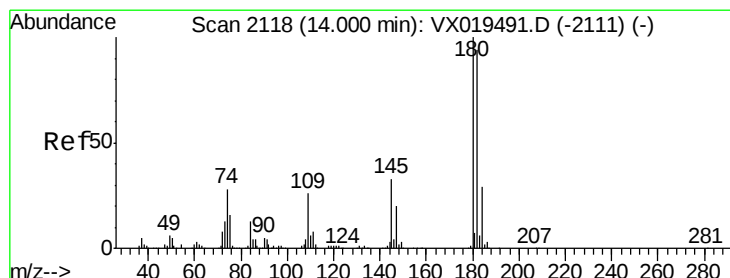
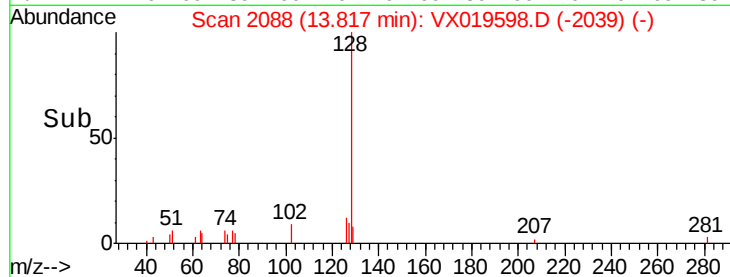
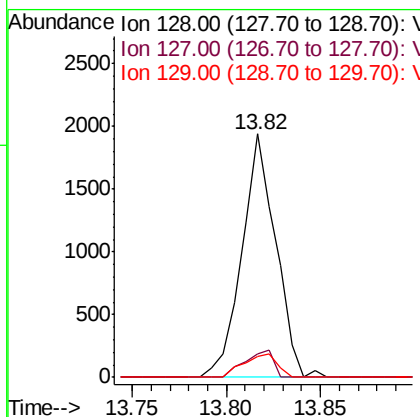
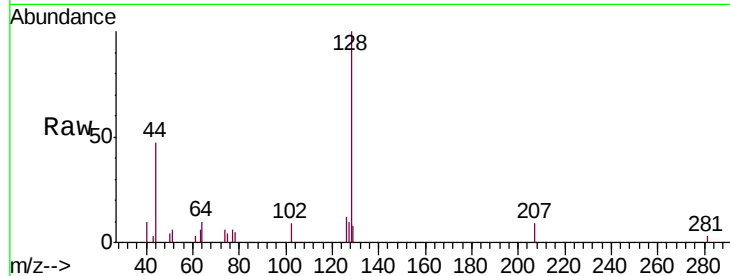




#95
Naphthalene
Concen: 2.333 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Instrument :
MSVOA_X
ClientSampled :
B1-GW

Tgt Ion:128 Resp: 2413
Ion Ratio Lower Upper
128 100
127 9.4 10.3 15.5#
129 9.7 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.232 ug/l
RT: 14.00 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VX019598.D
Acq: 24 Nov 2020 12:25

Tgt Ion:180 Resp: 977
Ion Ratio Lower Upper
180 100
182 82.3 48.1 144.3
145 28.8 16.6 49.8

