

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019548.D
 Acq On : 23 Nov 2020 14:18
 Operator : JC/MD
 Sample : L4836-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-01

Quant Time: Nov 24 00:31:50 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	5.63	168	314586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	508396	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	434716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	190581	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	186696	45.77	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	91.54%	
35) Dibromofluoromethane		5.46	113	149960	46.99	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.98%	
50) Toluene-d8		8.70	98	588429	47.45	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	94.90%	
62) 4-Bromofluorobenzene		11.12	95	206682	46.32	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.64%	

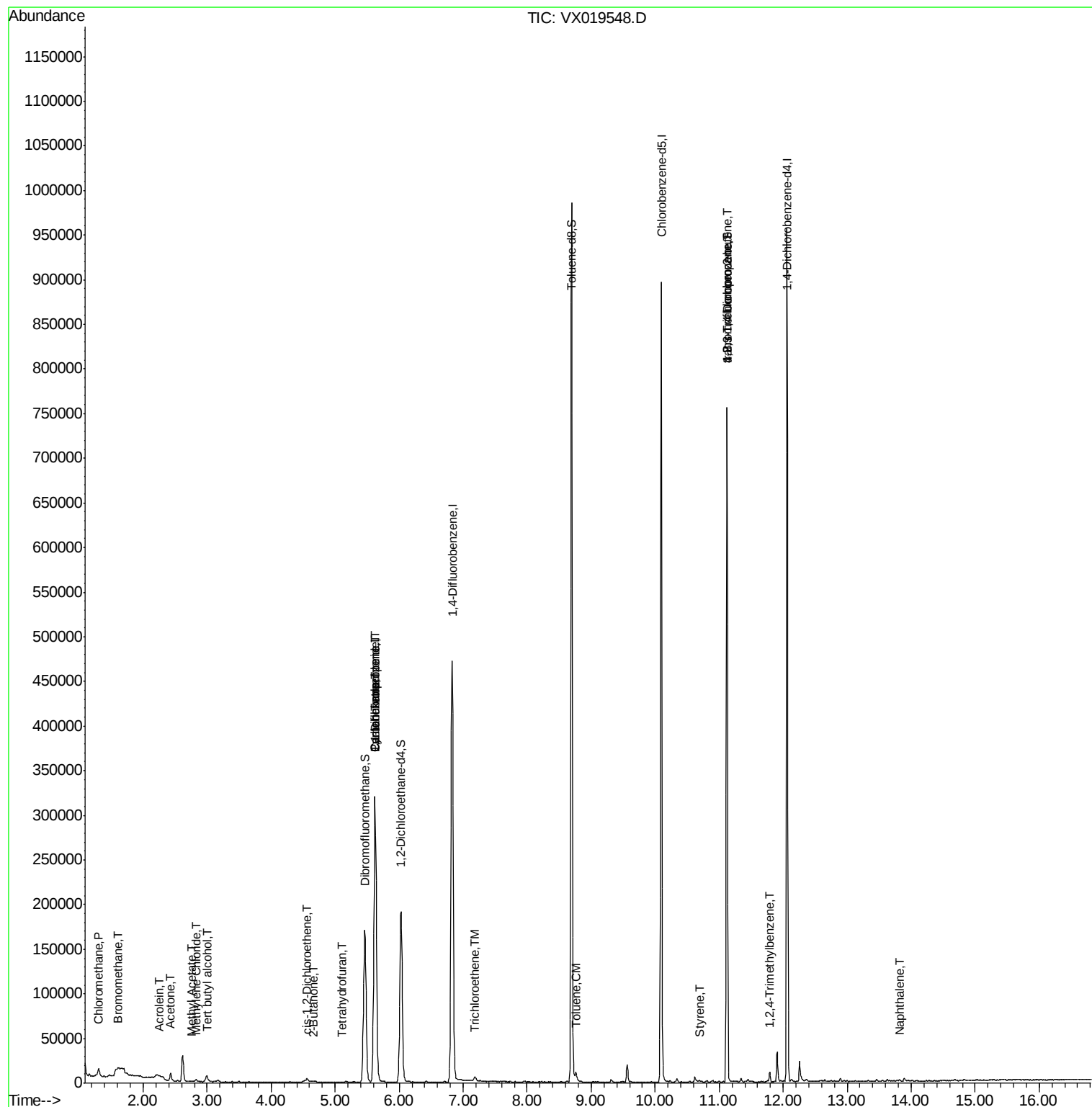
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1136	0.324	ug/l	97
5) Bromomethane	1.62	94	507	0.354	ug/l #	58
6) Chloroethane	1.72	64	1036	Below Cal	#	41
11) Tert butyl alcohol	3.00	59	5008	6.488	ug/l #	74
13) Acrolein	2.26	56	205	0.395	ug/l #	33
16) Acetone	2.43	43	8214	5.207	ug/l	99
18) Methyl Acetate	2.76	43	560	0.777	ug/l #	69
20) Methylene Chloride	2.83	84	1113	0.282	ug/l	89
25) 2-Butanone	4.66	43	1327	0.560	ug/l	96
27) cis-1,2-Dichloroethene	4.56	96	1968	0.484	ug/l #	1
29) Tetrahydrofuran	5.10	42	339	0.224	ug/l #	31
31) Cyclohexane	5.62	56	6015	1.134	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22944	4.814	ug/l #	50
38) Carbon Tetrachloride	5.63	117	31196	6.762	ug/l #	16
44) Trichloroethene	7.19	130	1216	0.317	ug/l	81
52) Toluene	8.76	92	3049	0.340	ug/l	95
70) Styrene	10.70	104	211	1.666	ug/l #	67
76) 1,2,3-Trichloropropane	11.12	75	100915	24.264	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	100915	64.219	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	4720	0.422	ug/l	98
95) Naphthalene	13.82	128	1437	2.276	ug/l #	93

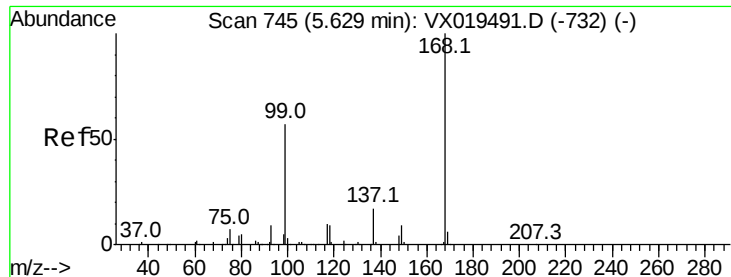
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampleId :

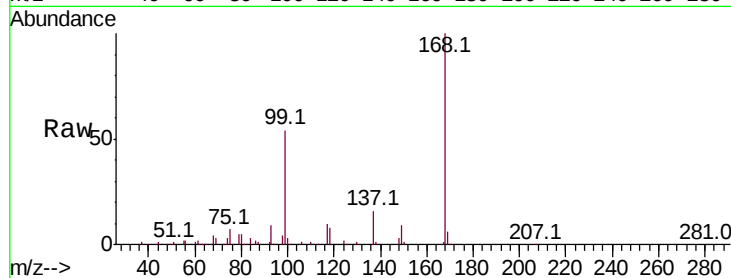
GW-01

Tot Ion:168 Resp: 314586

Ion Ratio Lower Upper

168 100

99 54.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

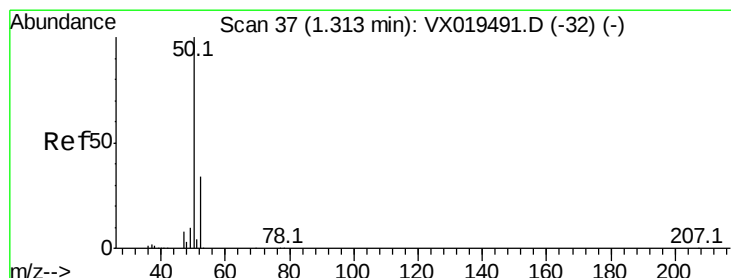
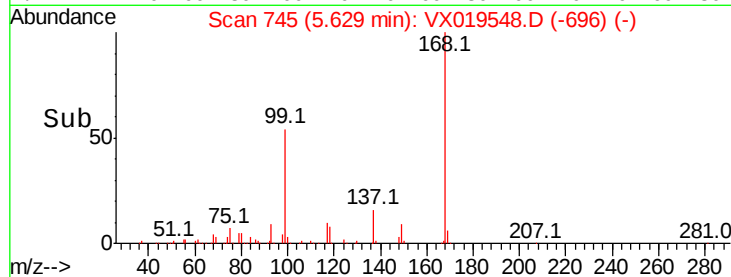
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.324 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019548.D

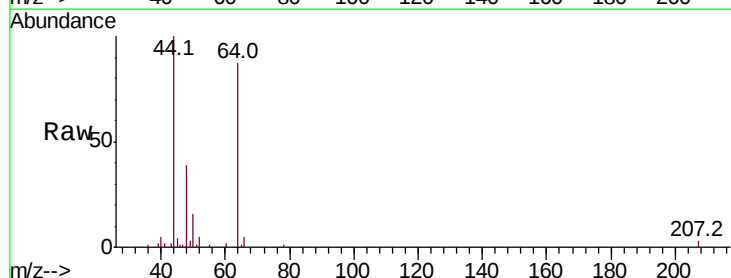
Acq: 23 Nov 2020 14:18

Tgt Ion: 50 Resp: 1136

Ion Ratio Lower Upper

50 100

52 31.8 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1000

800

600

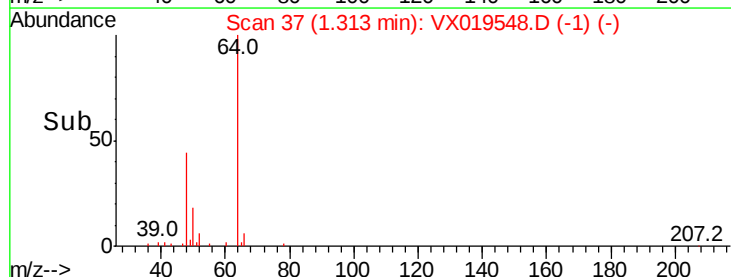
400

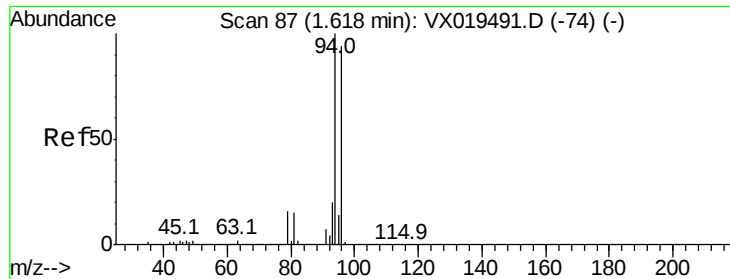
200

0

1.25 1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.354 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampleId :

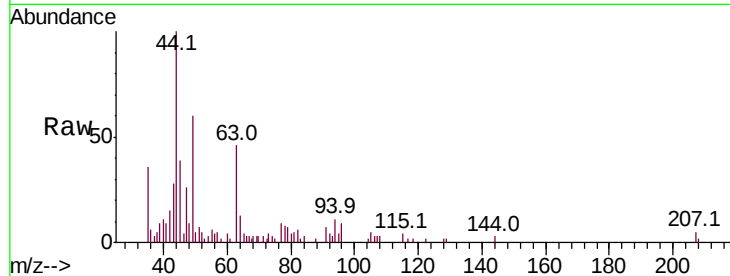
GW-01

Tot Ion: 94 Resp: 507

Ion Ratio Lower Upper

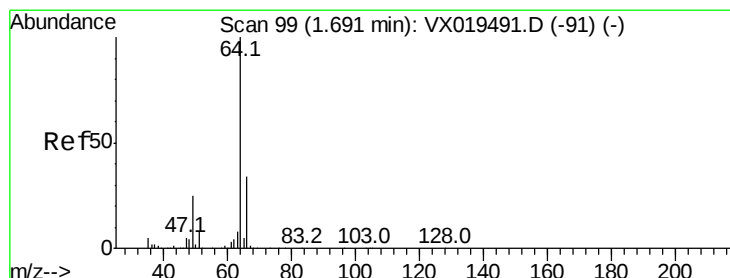
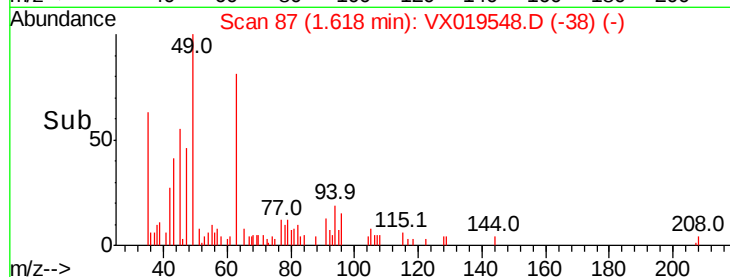
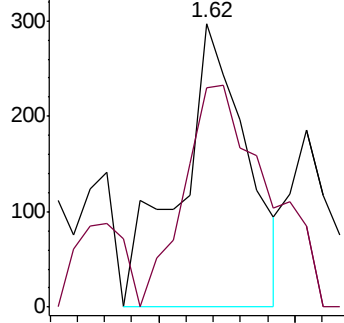
94 100

96 53.5 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.03 min

Lab File: VX019548.D

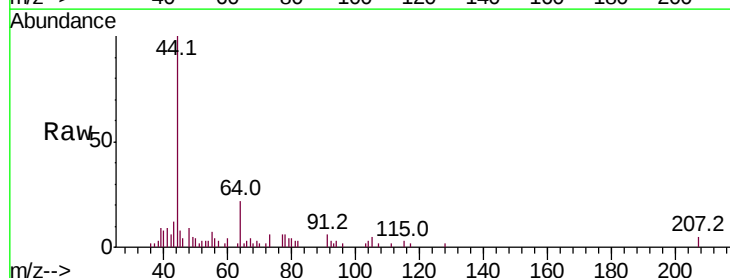
Acq: 23 Nov 2020 14:18

Tgt Ion: 64 Resp: 1036

Ion Ratio Lower Upper

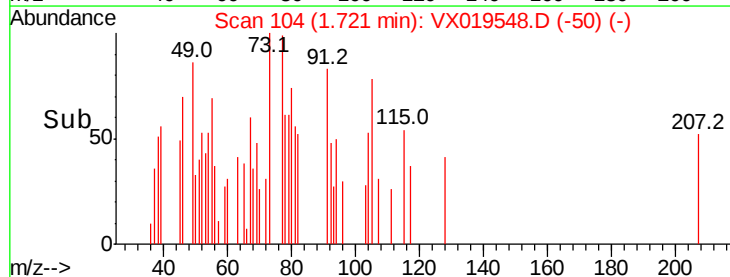
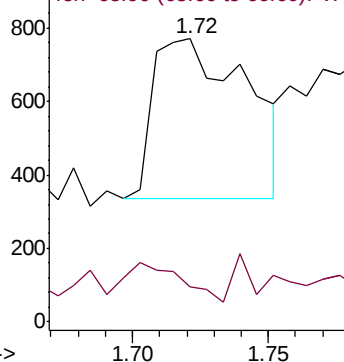
64 100

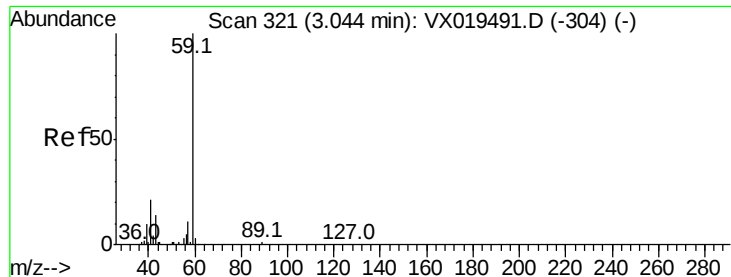
66 0.0 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

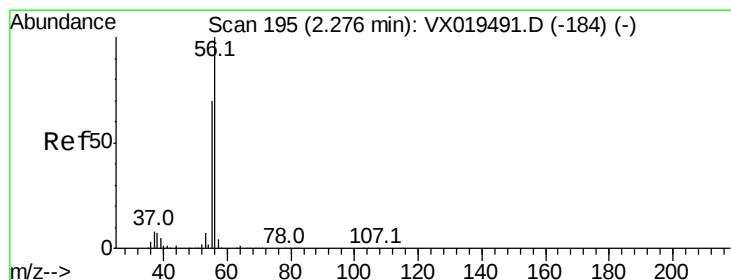
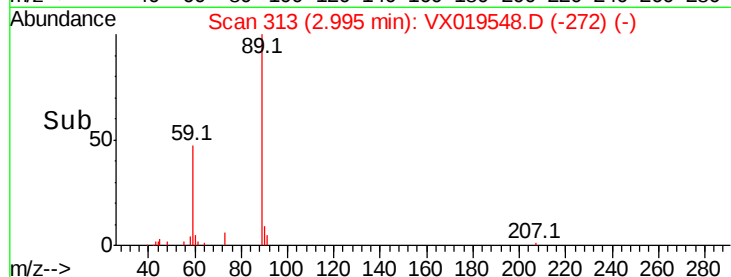
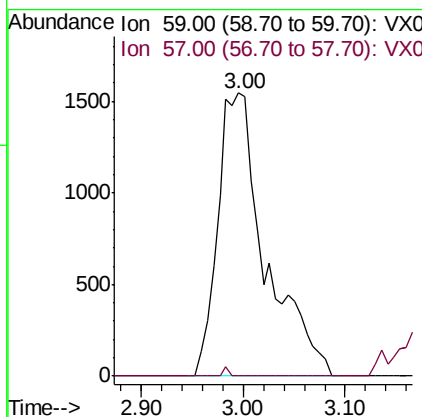
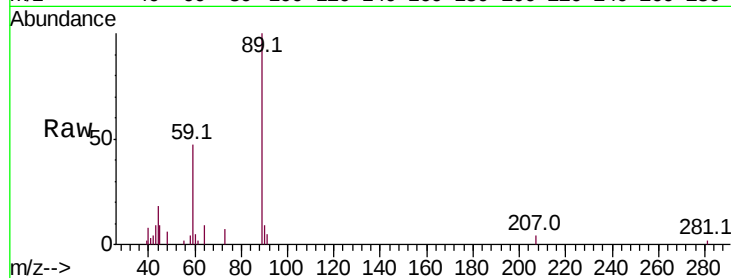




#11
Tert butyl alcohol
Concen: 6.488 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.05 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

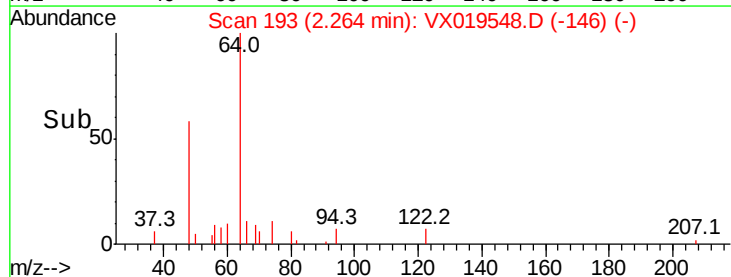
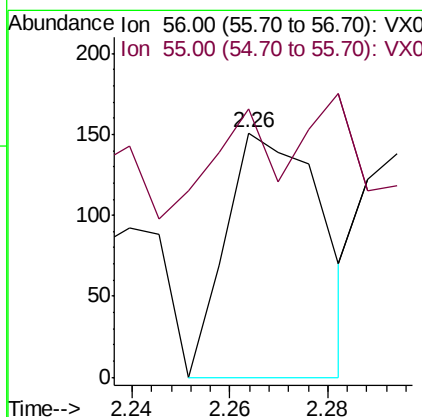
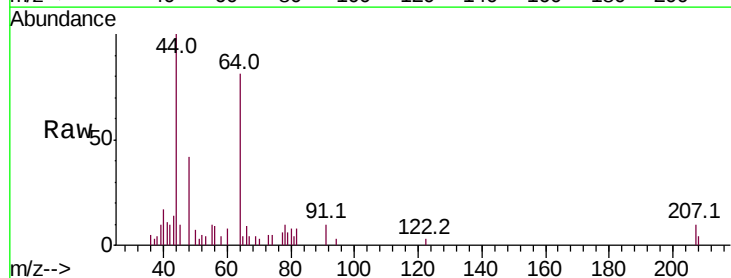
Instrument :
MSVOA_X
ClientSampleId :
GW-01

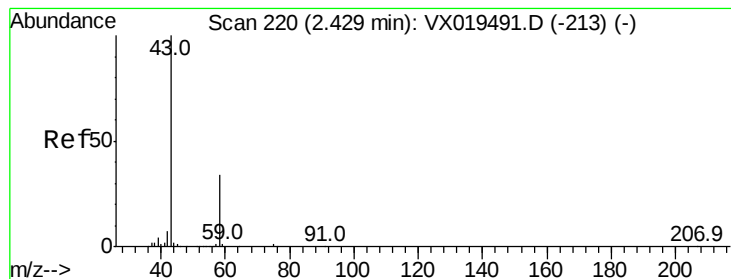
Tot Ion: 59 Resp: 5008
Ion Ratio Lower Upper
59 100
57 0.4 7.9 11.9#



#13
Acrolein
Concen: 0.395 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

Tgt Ion: 56 Resp: 205
Ion Ratio Lower Upper
56 100
55 14.6 55.5 83.3#





#16

Acetone

Concen: 5.207 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampled :

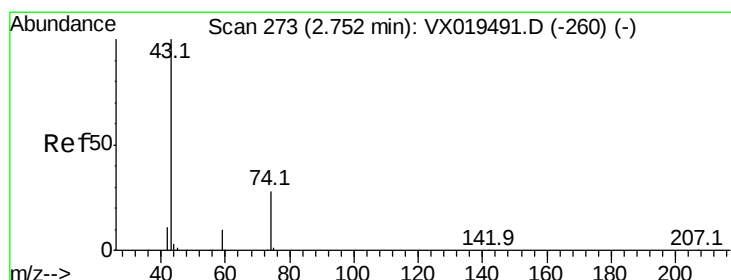
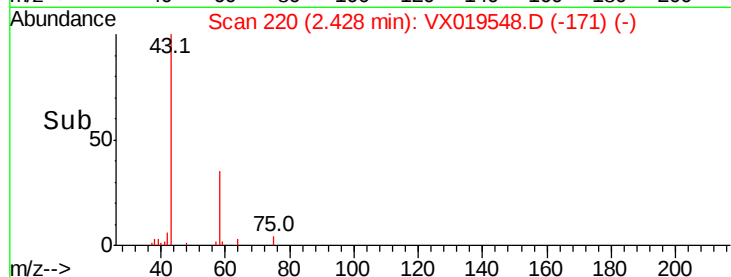
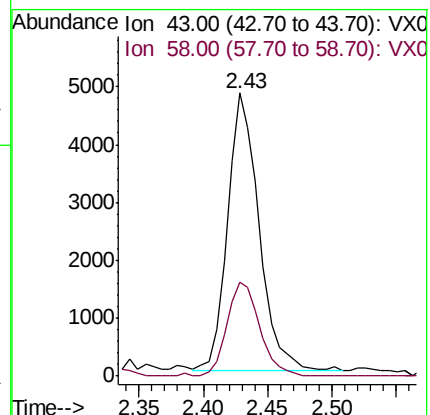
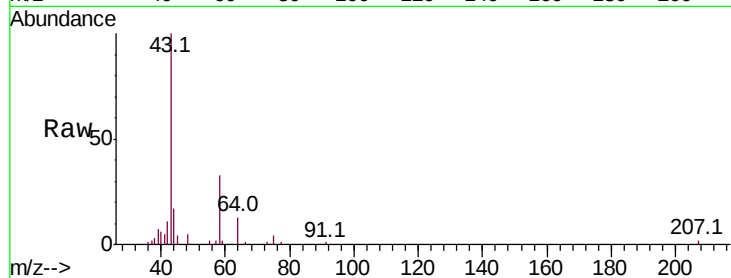
GW-01

Tot Ion: 43 Resp: 8214

Ion Ratio Lower Upper

43 100

58 33.7 27.4 41.2



#18

Methyl Acetate

Concen: 0.777 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX019548.D

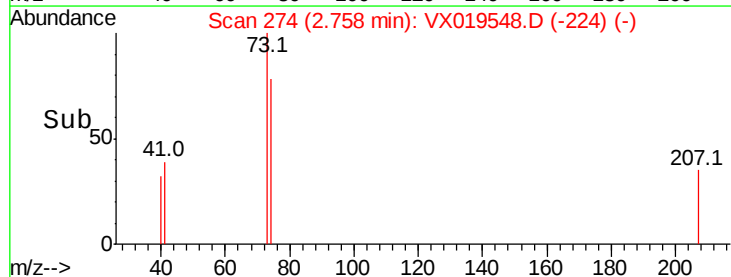
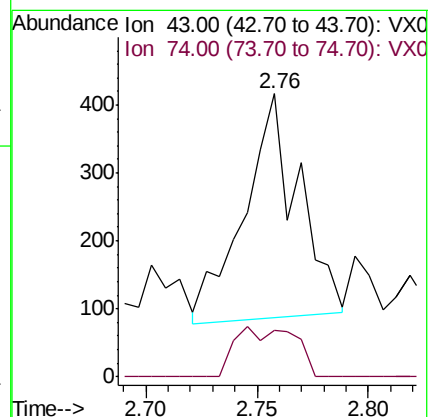
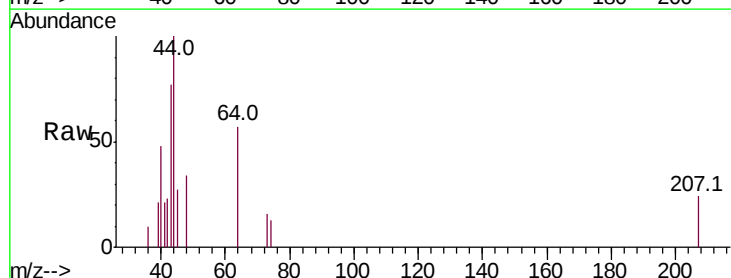
Acq: 23 Nov 2020 14:18

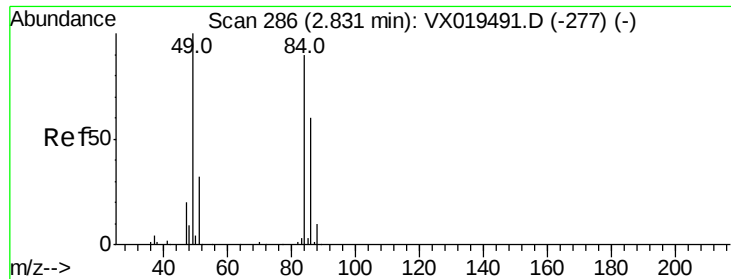
Tgt Ion: 43 Resp: 560

Ion Ratio Lower Upper

43 100

74 11.8 22.2 33.4#

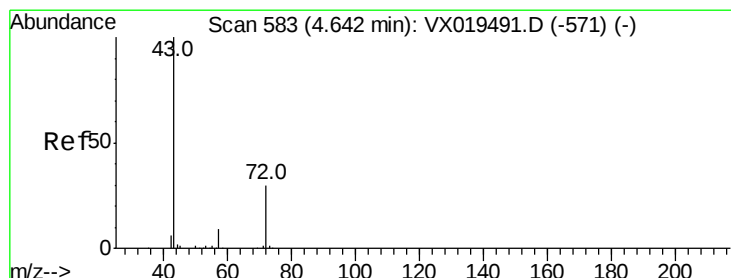
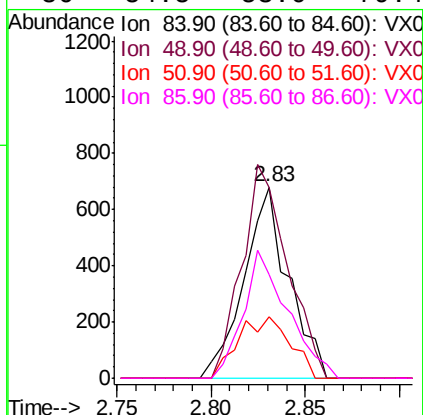
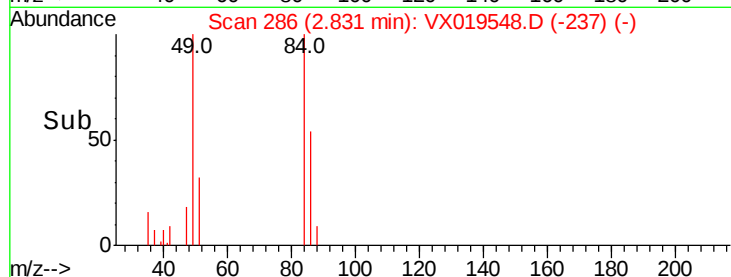
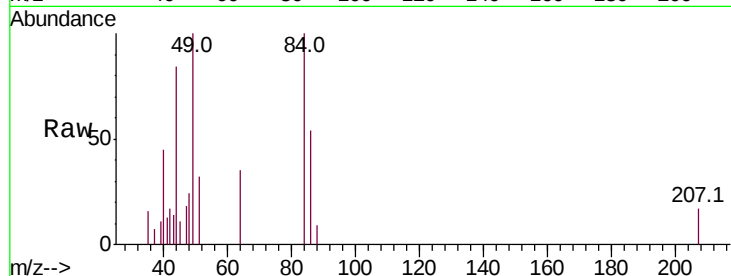




#20
Methvlene Chloride
Concen: 0.282 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

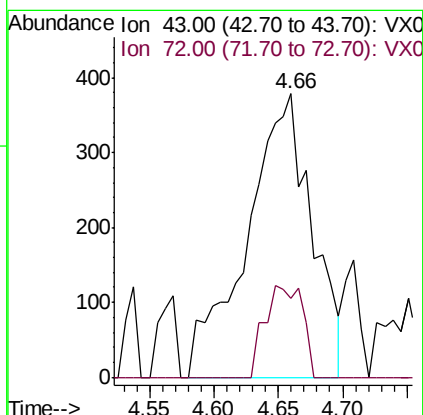
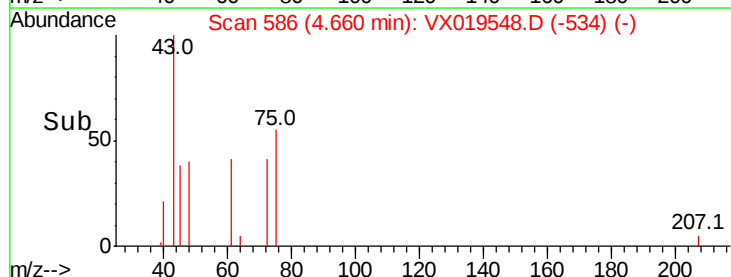
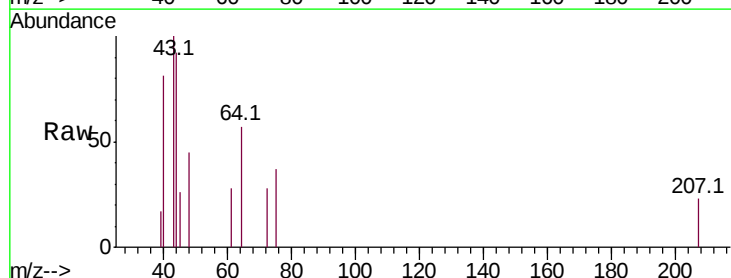
Instrument :
MSVOA_X
ClientSampleId :
GW-01

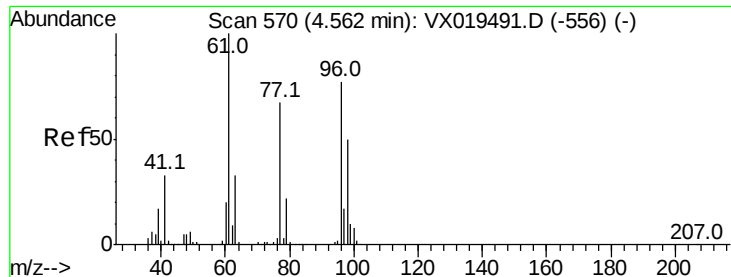
Tot Ion:	84	Resp:	1113
Ion	Ratio	Lower	Upper
84	100		
49	100.1	88.5	132.7
51	32.0	28.0	42.0
86	54.5	53.0	79.4



#25
2-Butanone
Concen: 0.560 ug/l
RT: 4.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

Tgt Ion:	43	Resp:	1327
Ion	Ratio	Lower	Upper
43	100		
72	28.0	24.0	36.0

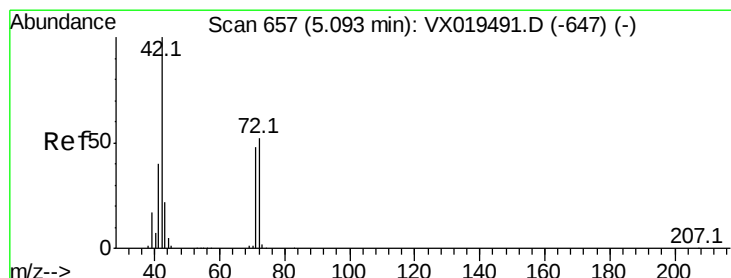
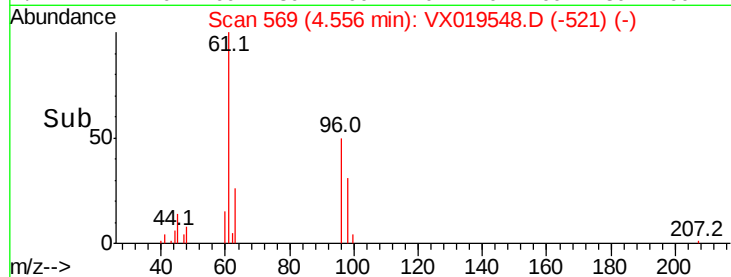
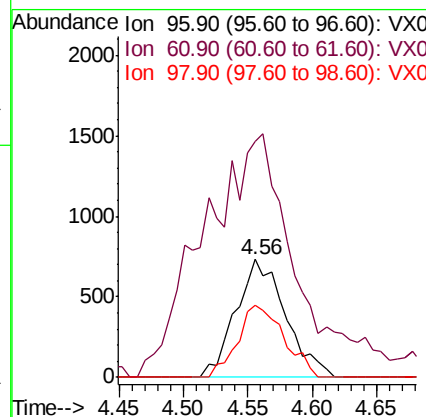
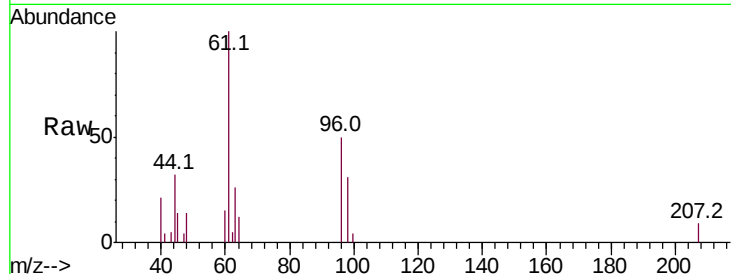




#27
 cis-1,2-Dichloroethene
 Concen: 0.484 ug/l
 RT: 4.56 min Scan# 569
 Delta R.T. -0.01 min
 Lab File: VX019548.D
 Acq: 23 Nov 2020 14:18

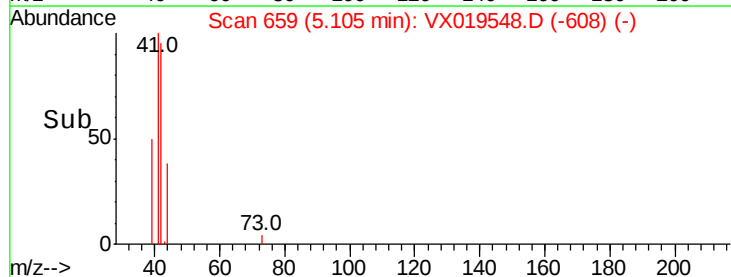
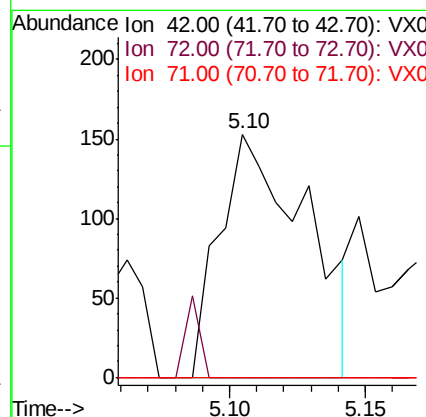
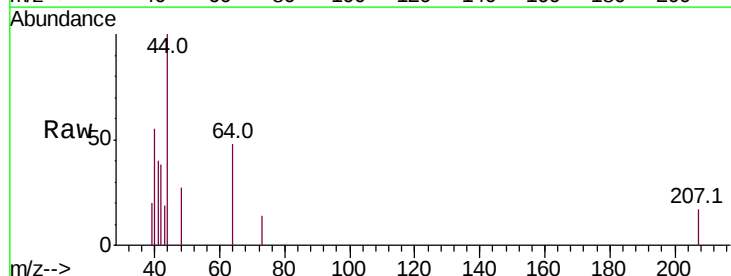
Instrument :
 MSVOA_X
 ClientSampled :
 GW-01

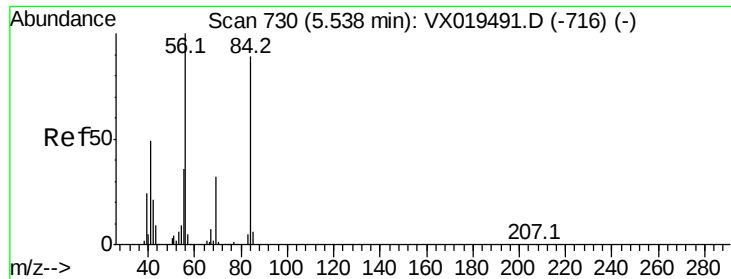
Tot Ion: 96 Resp: 1968
 Ion Ratio Lower Upper
 96 100
 61 386.0 0.0 279.2#
 98 56.8 0.0 129.8



#29
 Tetrahydrofuran
 Concen: 0.224 ug/l
 RT: 5.10 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX019548.D
 Acq: 23 Nov 2020 14:18

Tgt Ion: 42 Resp: 339
 Ion Ratio Lower Upper
 42 100
 72 5.6 42.6 63.8#
 71 0.0 39.0 58.6#

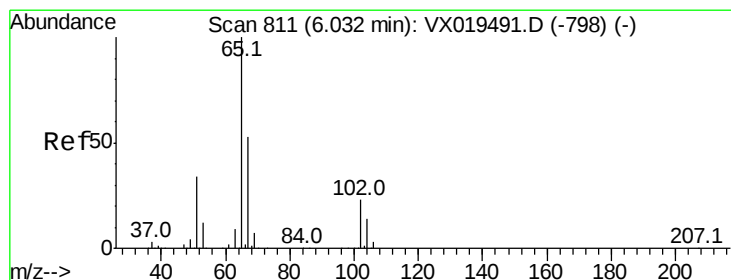
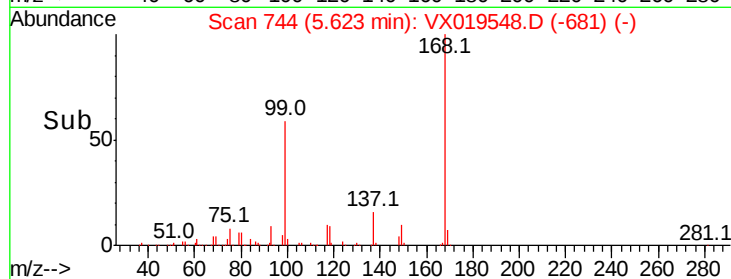
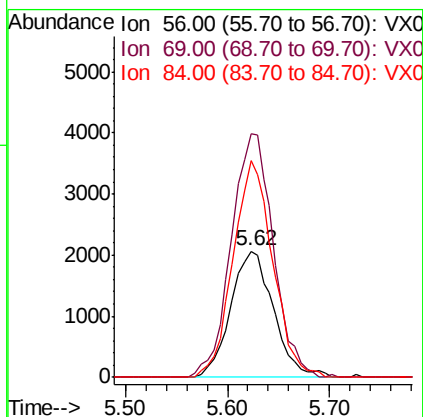
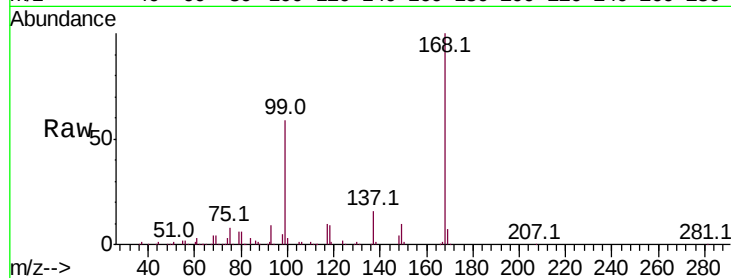




#31
Cyclohexane
Concen: 1.134 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

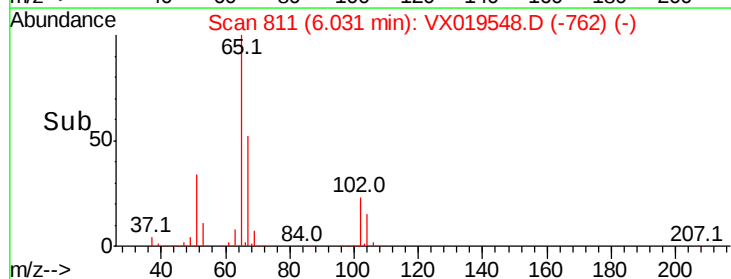
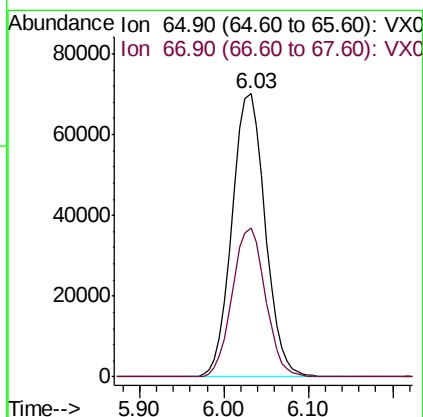
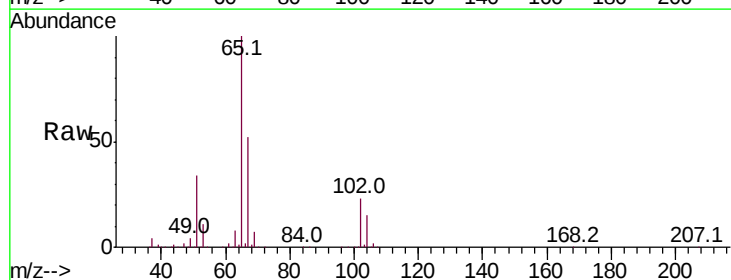
Instrument :
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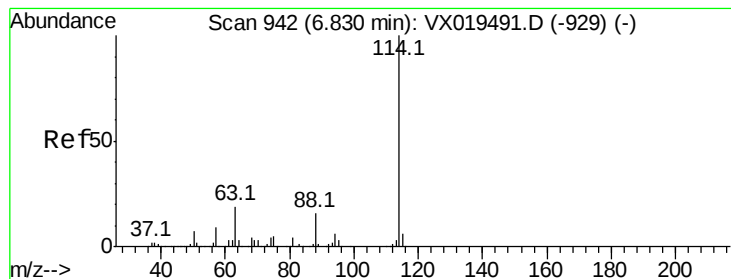
Tot Ion: 56 Resp: 6015
Ion Ratio Lower Upper
56 100
69 192.7 25.5 38.3#
84 171.3 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 45.771 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

Tgt Ion: 65 Resp: 186696
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampled :

GW-01

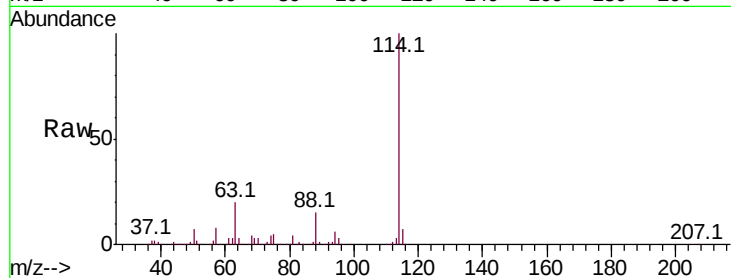
Tot Ion:114 Resp: 508396

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.8

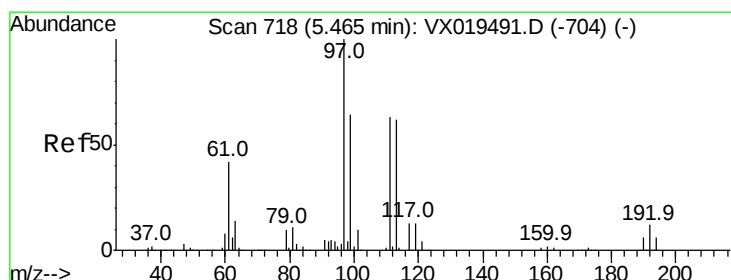
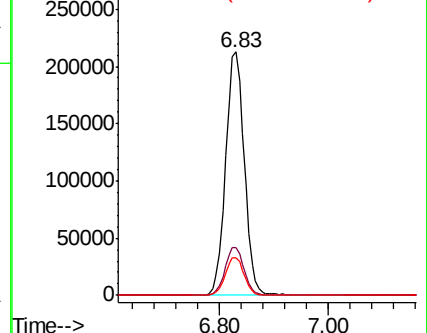
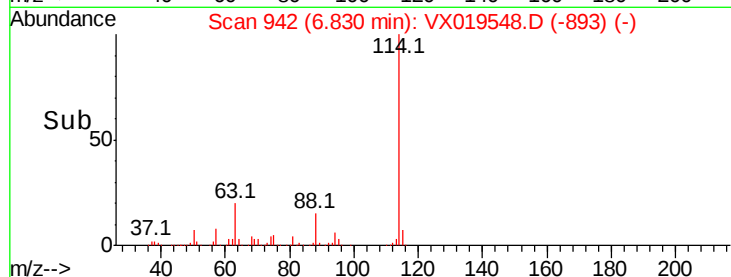
88 15.5 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.992 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

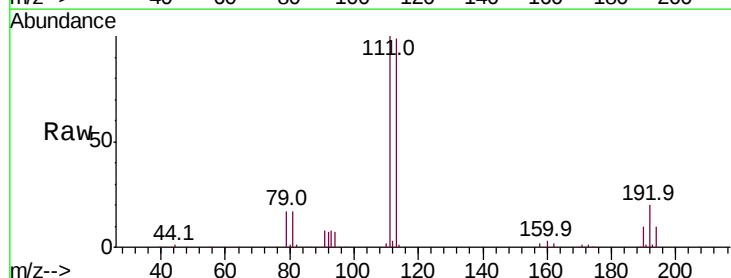
Tgt Ion:113 Resp: 149960

Ion Ratio Lower Upper

113 100

111 101.6 81.5 122.3

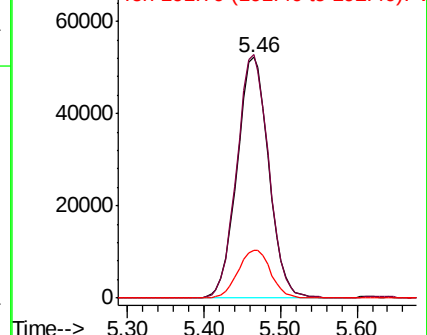
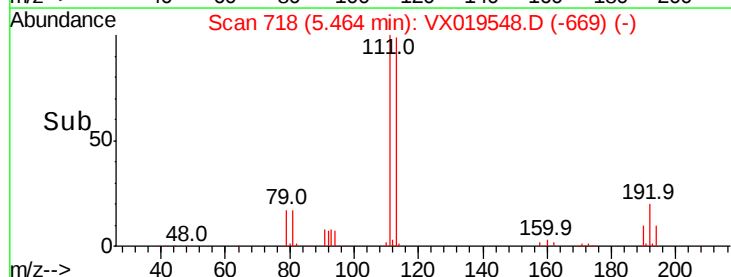
192 20.5 16.2 24.2

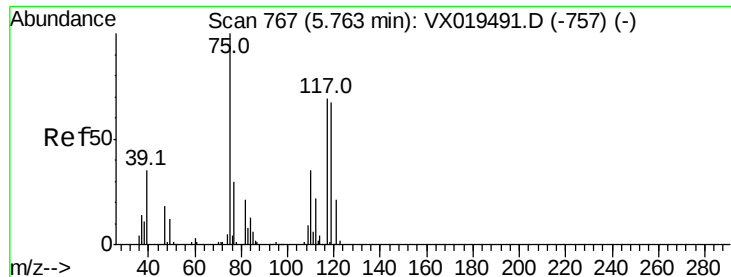


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

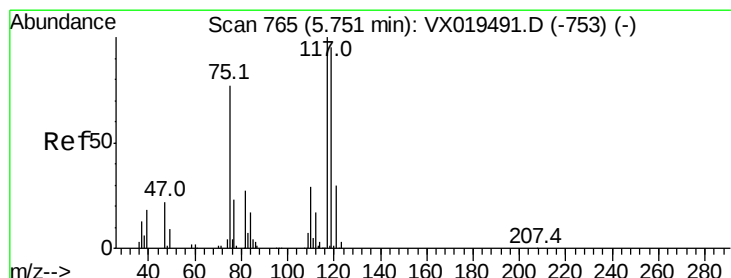
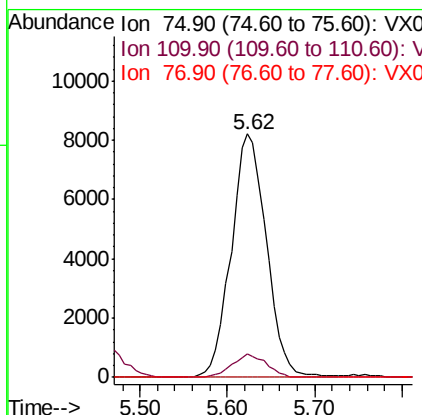
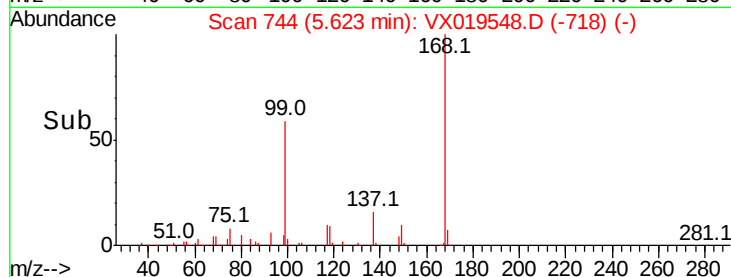
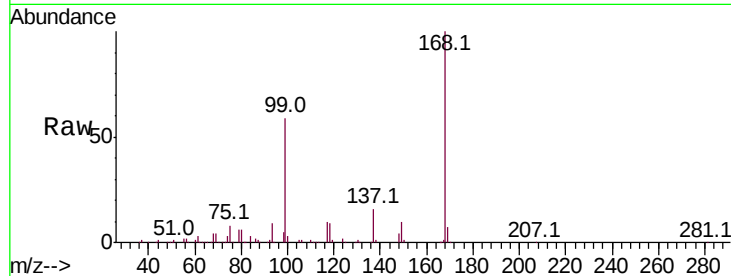




#36
 1,1-Dichloropropene
 Concen: 4.814 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019548.D
 Acq: 23 Nov 2020 14:18

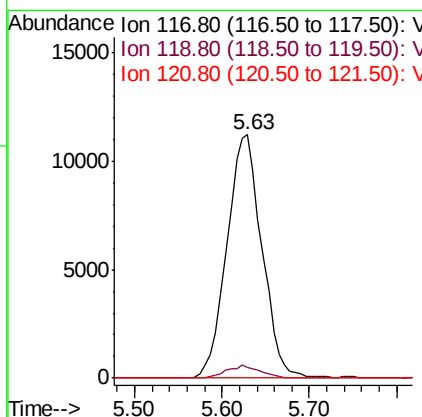
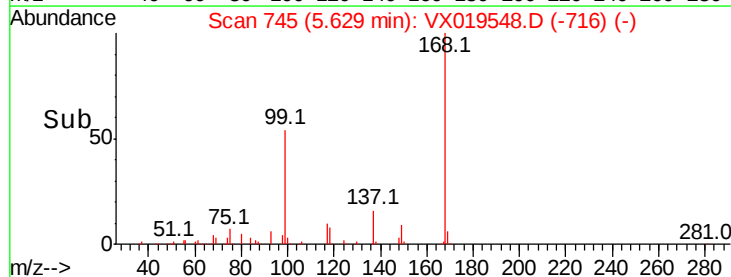
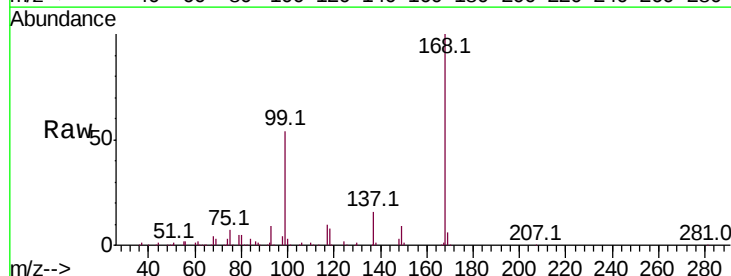
Instrument :
 MSVOA_X
 ClientSampleId :
 GW-01

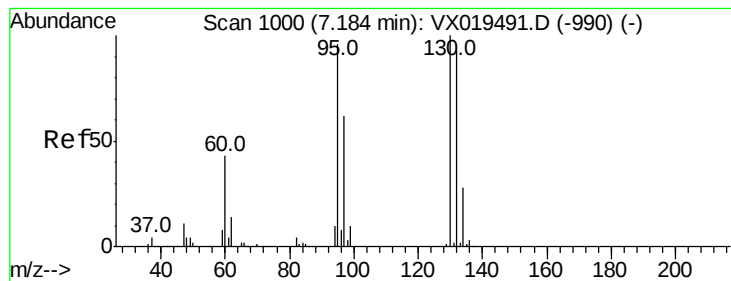
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.3#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 6.762 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019548.D
 Acq: 23 Nov 2020 14:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.9	113.9#
121	0.0	24.0	36.0#





#44

Trichloroethene

Concen: 0.317 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampleId :

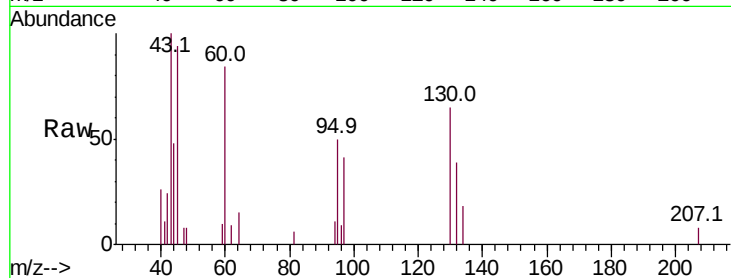
GW-01

Tot Ion:130 Resp: 1216

Ion Ratio Lower Upper

130 100

95 76.6 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

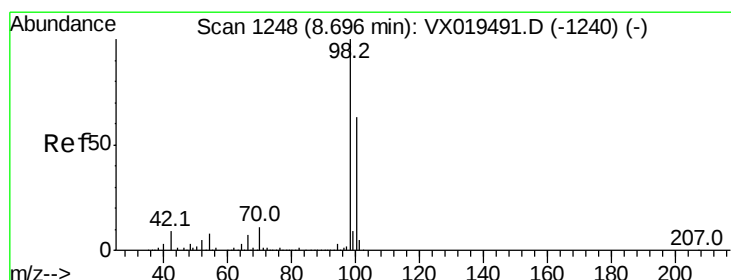
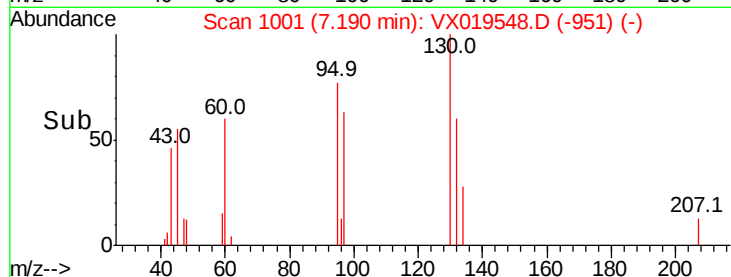
600

400

200

0

Time--> 7.10 7.15 7.20 7.25



#50

Toluene-d8

Concen: 47.451 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019548.D

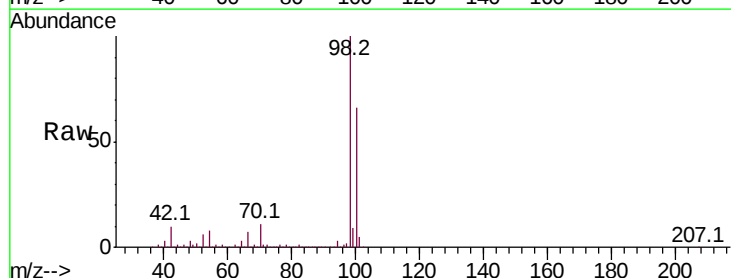
Acq: 23 Nov 2020 14:18

Tgt Ion: 98 Resp: 588429

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

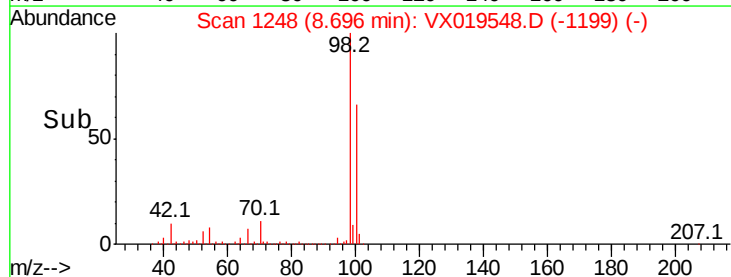
300000

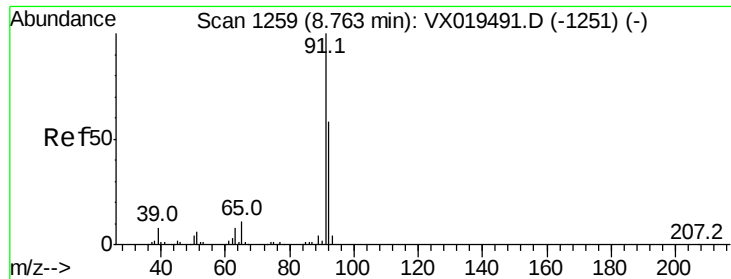
200000

100000

0

Time--> 8.60 8.70 8.80 8.90





#52

Toluene

Concen: 0.340 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampleId :

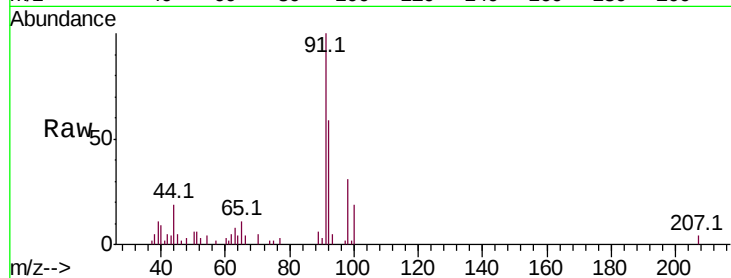
GW-01

Tot Ion: 92 Resp: 3049

Ion Ratio Lower Upper

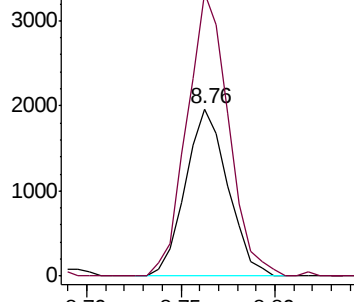
92 100

91 166.3 138.1 207.1

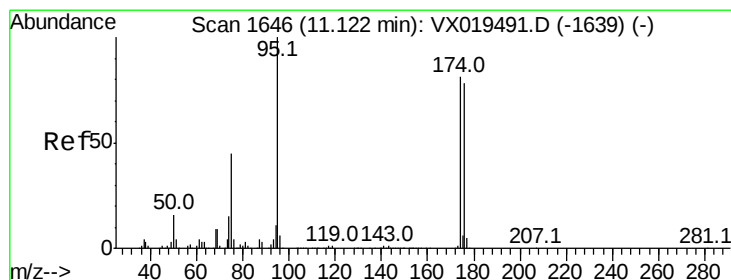
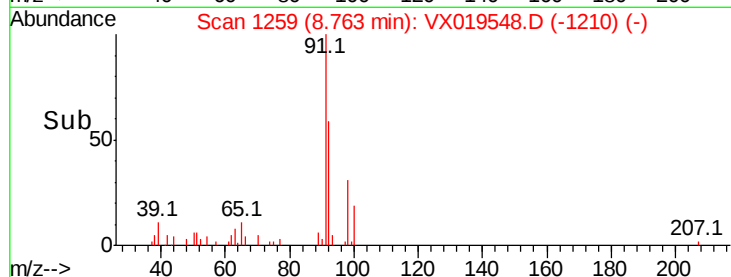


Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



Time-->



#62

4-Bromofluorobenzene

Concen: 46.325 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

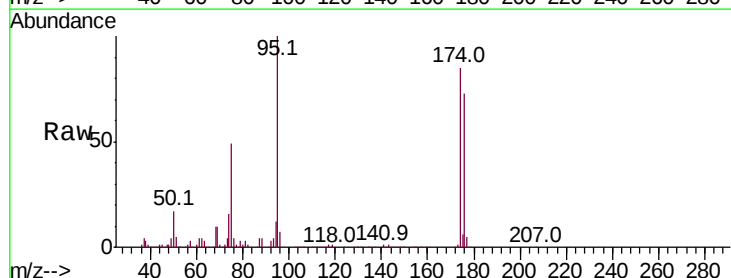
Tgt Ion: 95 Resp: 206682

Ion Ratio Lower Upper

95 100

174 78.2 0.0 156.2

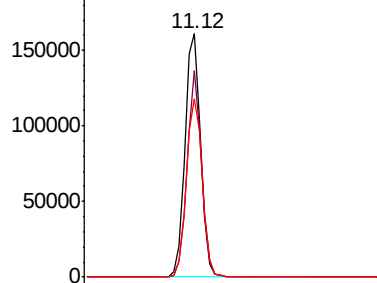
176 74.3 0.0 151.4



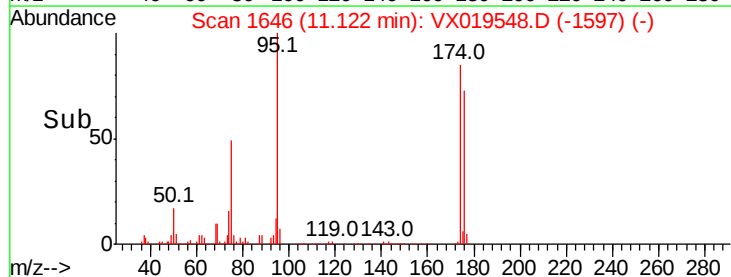
Abundance Ion 94.90 (94.60 to 95.60): VX0

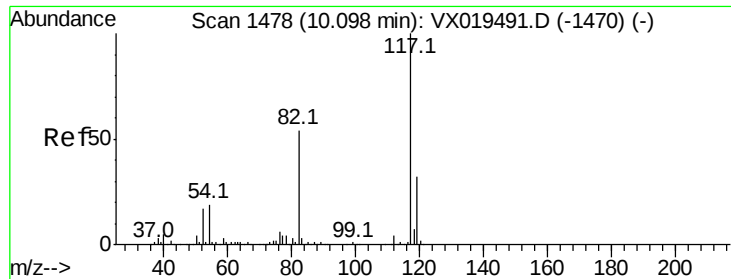
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

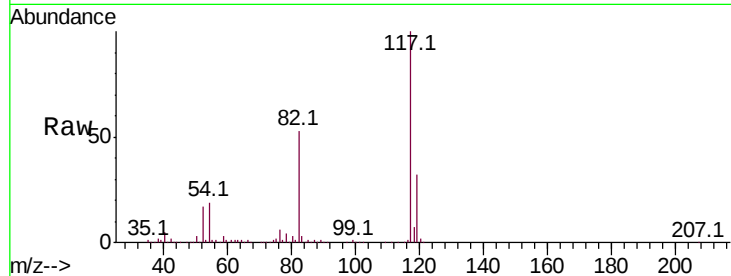




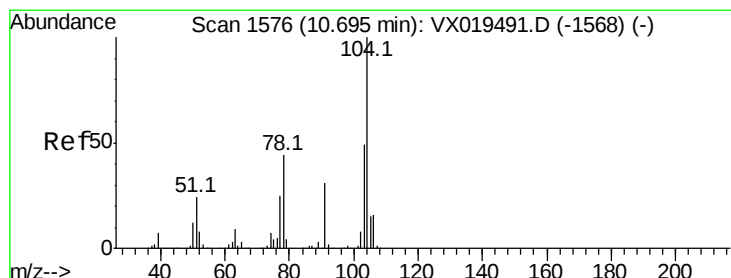
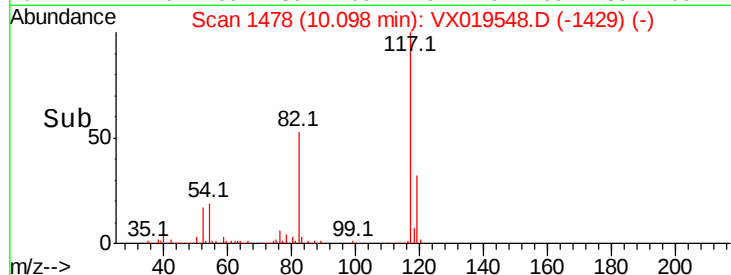
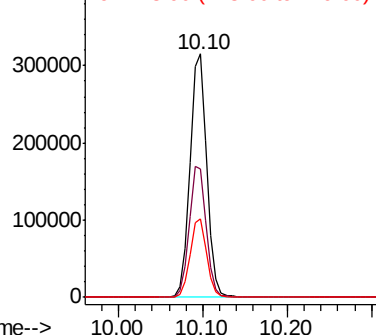
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

Instrument :
MSVOA_X
ClientSampleId :
GW-01

Tot Ion:117 Resp: 434716
Ion Ratio Lower Upper
117 100
82 52.8 43.0 64.4
119 32.2 25.6 38.4

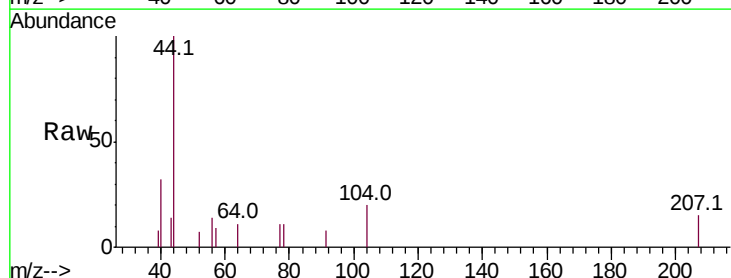


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

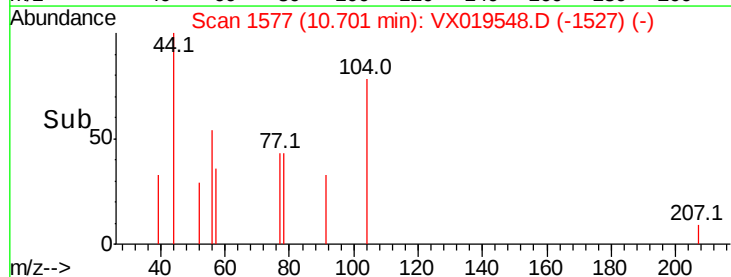
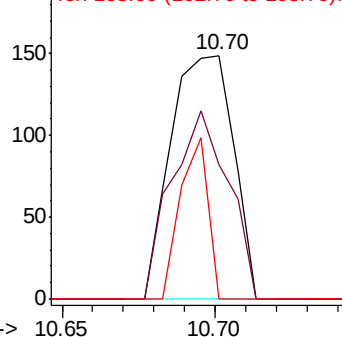


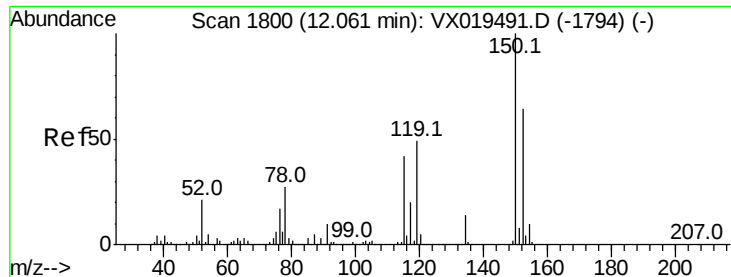
#70
Styrene
Concen: 1.666 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019548.D
Acq: 23 Nov 2020 14:18

Tgt Ion:104 Resp: 211
Ion Ratio Lower Upper
104 100
78 70.1 39.5 59.3#
103 29.4 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampleId :

GW-01

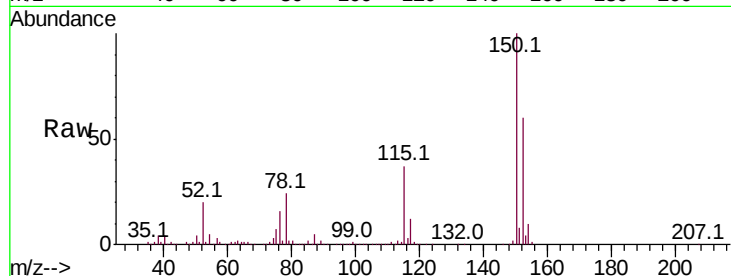
Tot Ion:152 Resp: 190581

Ion Ratio Lower Upper

152 100

115 60.6 41.8 125.4

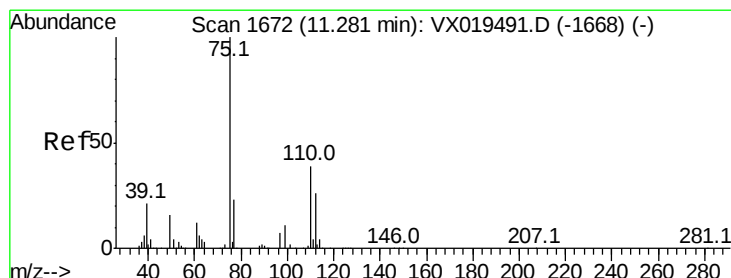
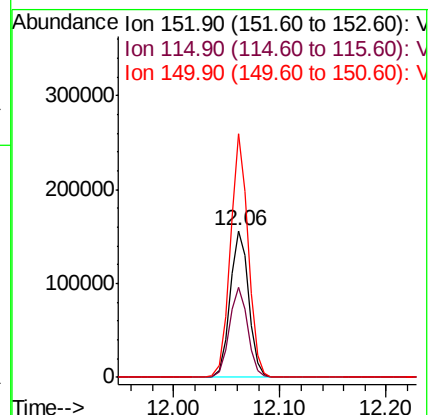
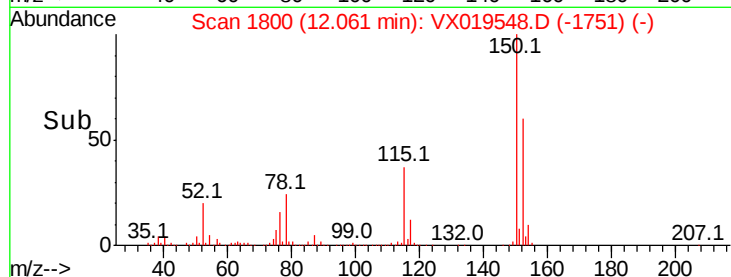
150 159.0 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.264 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019548.D

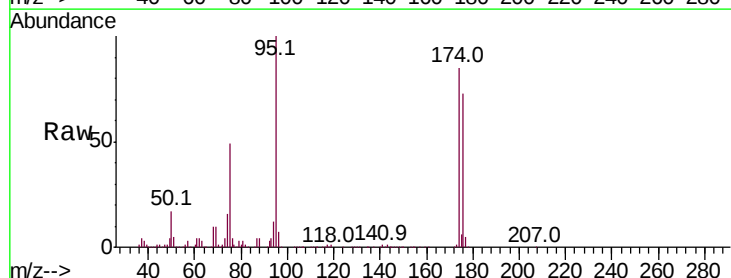
Acq: 23 Nov 2020 14:18

Tgt Ion: 75 Resp: 100915

Ion Ratio Lower Upper

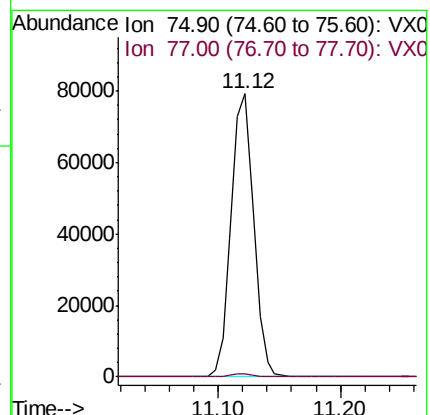
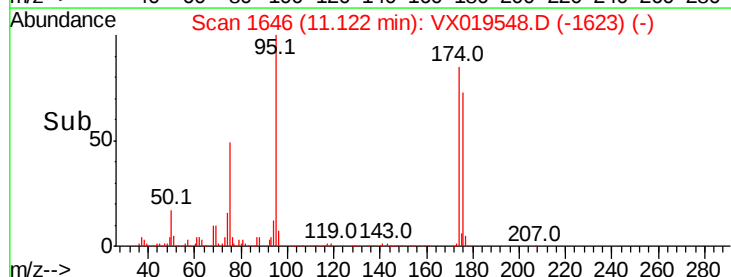
75 100

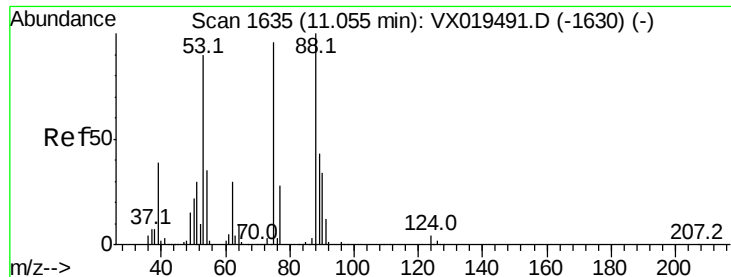
77 1.1 20.0 60.0#



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: 64.219 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampled :

GW-01

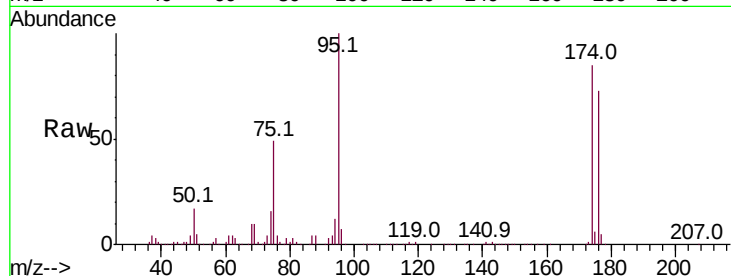
Tot Ion: 75 Resp: 100915

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

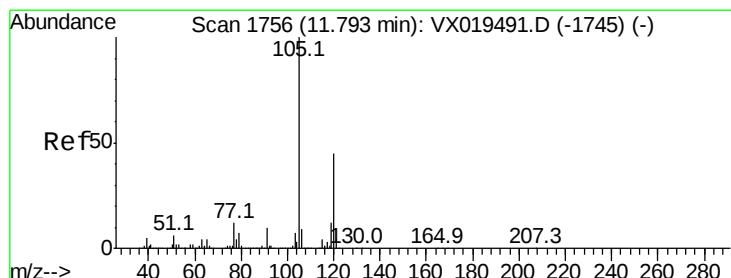
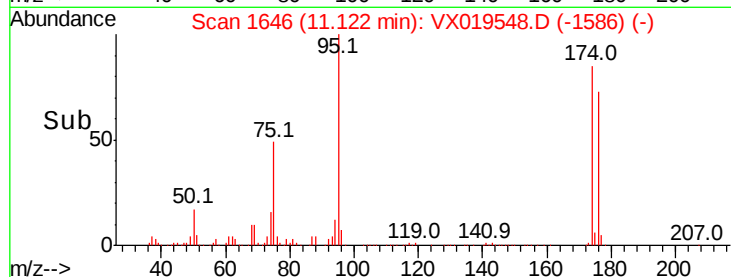
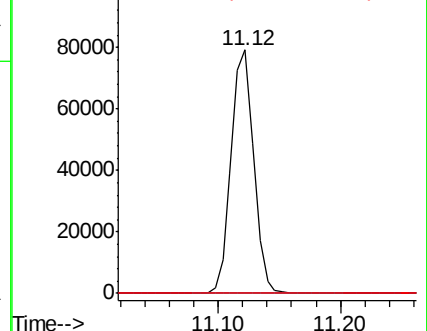
89 0.0 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.422 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019548.D

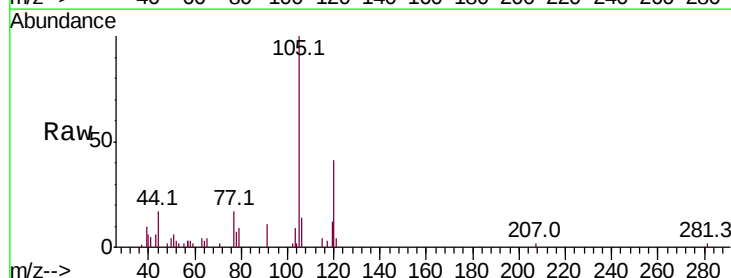
Acq: 23 Nov 2020 14:18

Tgt Ion: 105 Resp: 4720

Ion Ratio Lower Upper

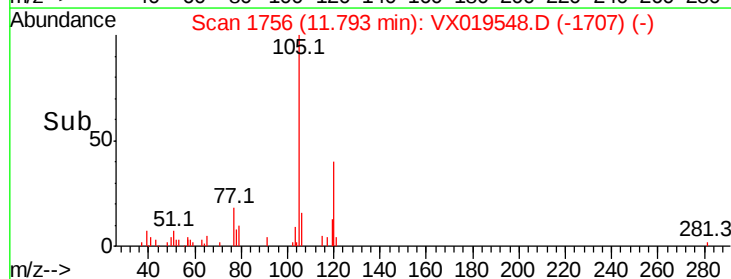
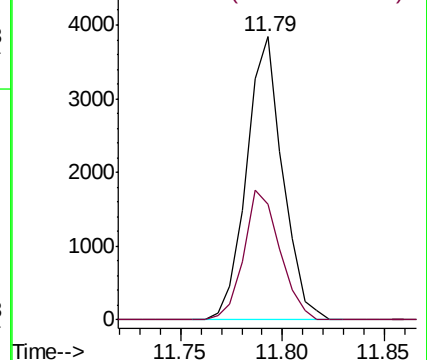
105 100

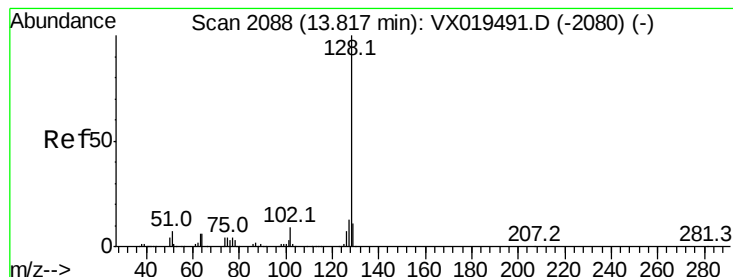
120 45.6 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 2.276 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019548.D

Acq: 23 Nov 2020 14:18

Instrument :

MSVOA_X

ClientSampleId :

GW-01

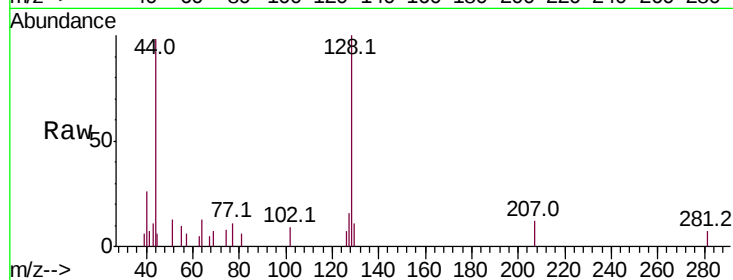
Tot Ion:128 Resp: 1437

Ion Ratio Lower Upper

128 100

127 10.9 10.3 15.5

129 7.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

