

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019504.D
 Acq On : 20 Nov 2020 18:36
 Operator : JC/MD
 Sample : L4836-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-02

Quant Time: Nov 21 03:49:33 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	272709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	448220	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	401203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	167277	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	169690	47.99	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.98%
35) Dibromofluoromethane	5.46	113	134318	47.74	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.48%
50) Toluene-d8	8.70	98	536837	49.10	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.20%
62) 4-Bromofluorobenzene	11.12	95	181194	46.06	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.12%

Target Compounds

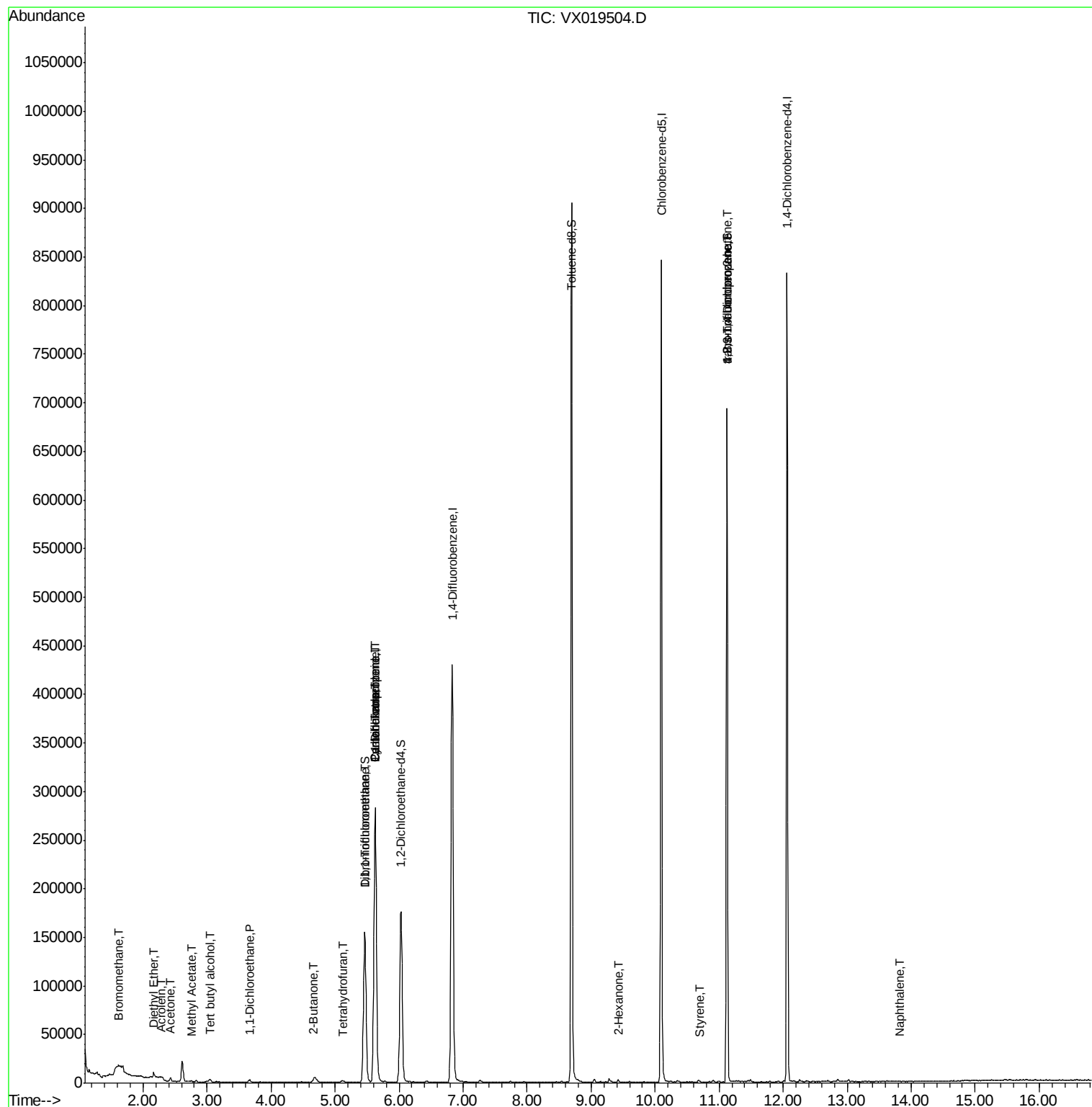
					Qvalue	
5) Bromomethane	1.62	94	420	0.338	ug/l #	52
6) Chloroethane	1.68	64	130	Below Cal	#	41
8) Diethyl Ether	2.17	74	1872	0.989	ug/l	98
11) Tert butyl alcohol	3.04	59	4099	6.125	ug/l #	82
13) Acrolein	2.28	56	450	1.000	ug/l #	27
16) Acetone	2.43	43	3774	2.760	ug/l	98
18) Methyl Acetate	2.75	43	1168	0.978	ug/l	99
24) 1,1-Dichloroethane	3.67	63	2846	0.530	ug/l #	91
25) 2-Butanone	4.65	43	463	0.225	ug/l #	45
29) Tetrahydrofuran	5.11	42	1638	1.250	ug/l #	64
31) Cyclohexane	5.63	56	5623	1.223	ug/l #	1
32) 1,1,1-Trichloroethane	5.46	97	1180	0.245	ug/l #	49
36) 1,1-Dichloropropene	5.62	75	21083	5.017	ug/l #	49
38) Carbon Tetrachloride	5.62	117	27254	6.701	ug/l #	17
59) 2-Hexanone	9.42	43	1450	0.494	ug/l #	20
70) Styrene	10.70	104	114	1.657	ug/l #	70
76) 1,2,3-Trichloropropane	11.12	75	90100	24.681	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	90100	65.251	ug/l #	12
95) Naphthalene	13.82	128	492	2.216	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

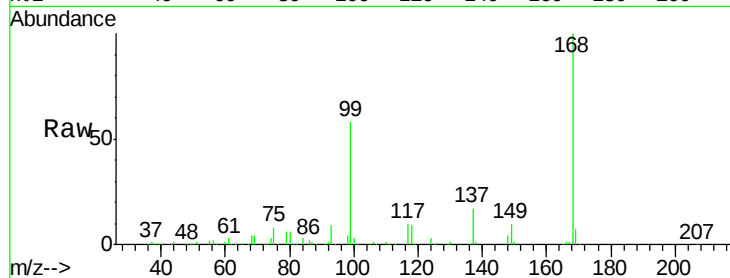
GW-02

Tot Ion:168 Resp: 272709

Ion Ratio Lower Upper

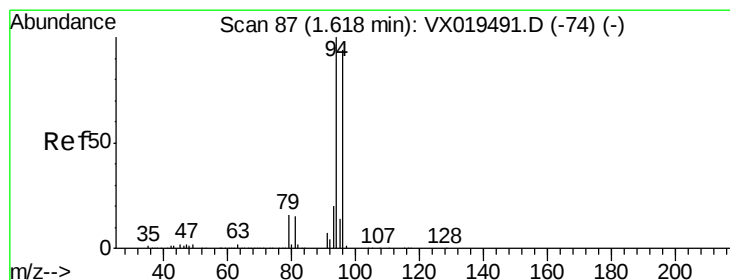
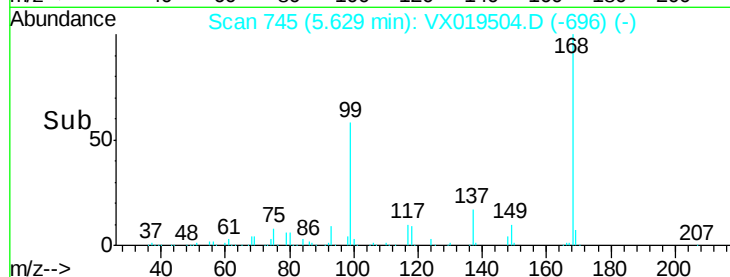
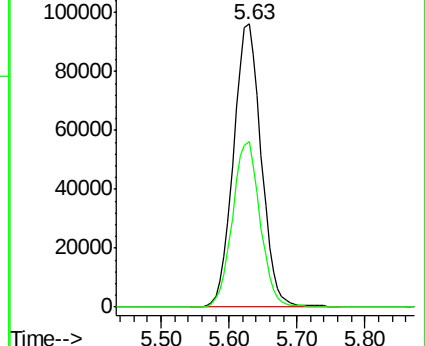
168 100

99 58.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.338 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019504.D

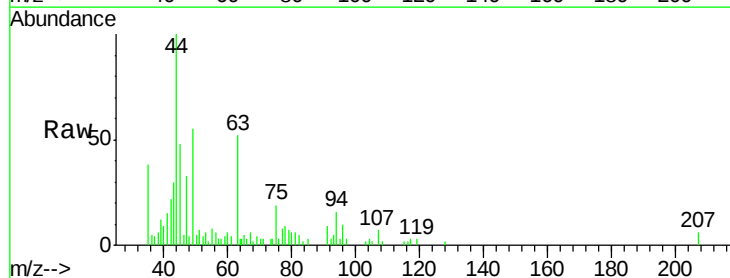
Acq: 20 Nov 2020 18:36

Tgt Ion: 94 Resp: 420

Ion Ratio Lower Upper

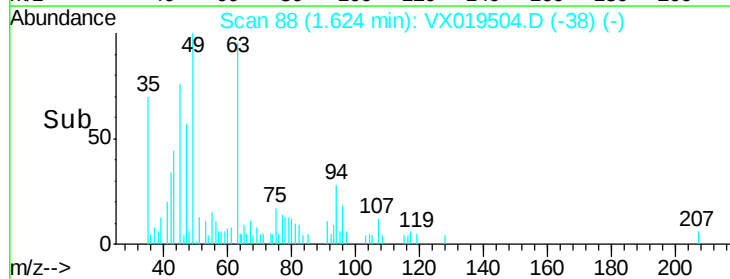
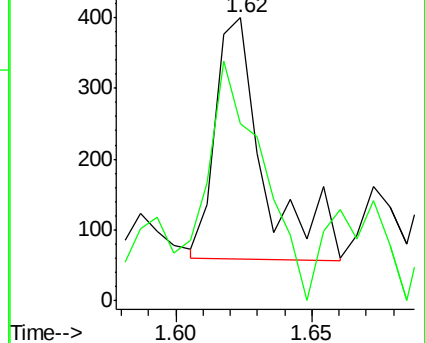
94 100

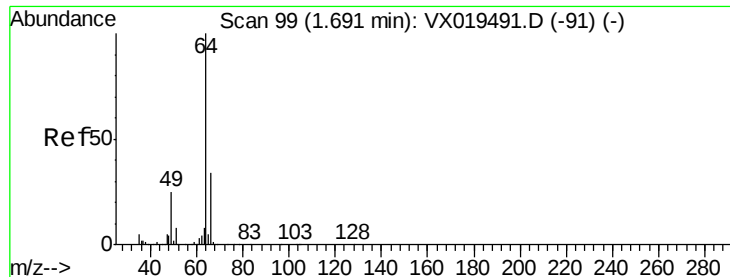
96 48.1 75.6 113.4#



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: 1.68 min Scan# 98

Delta R.T. -0.01 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

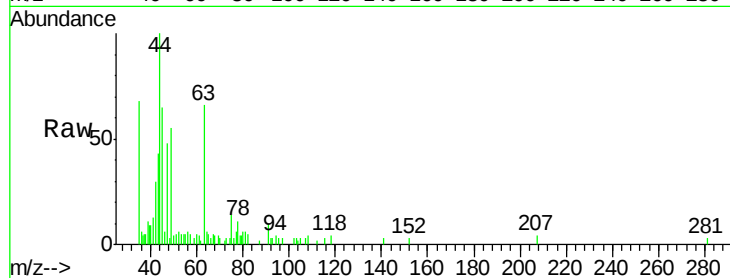
GW-02

Tot Ion: 64 Resp: 130

Ion Ratio Lower Upper

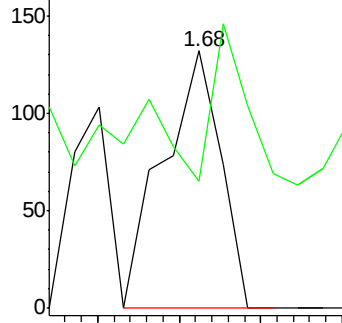
64 100

66 0.0 27.1 40.7#

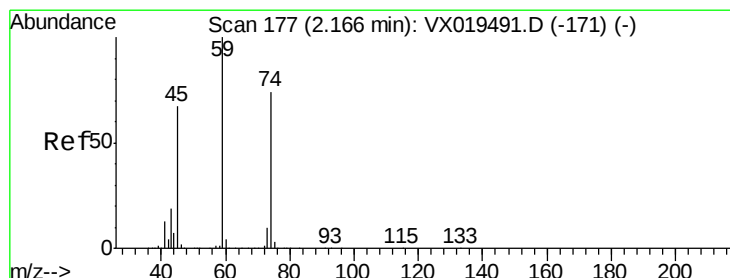
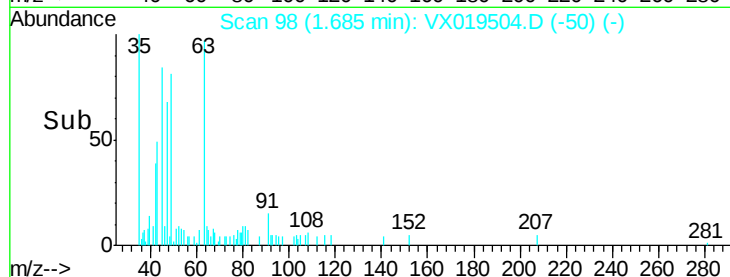


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#8

Diethyl Ether

Concen: 0.989 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX019504.D

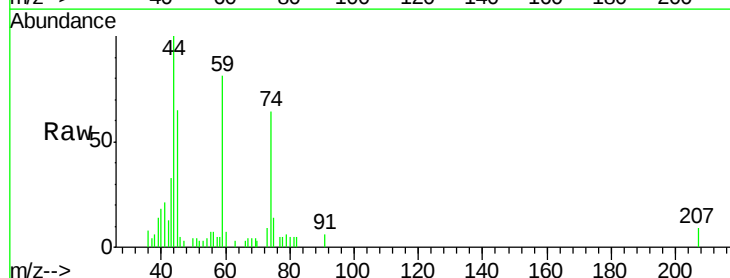
Acq: 20 Nov 2020 18:36

Tgt Ion: 74 Resp: 1872

Ion Ratio Lower Upper

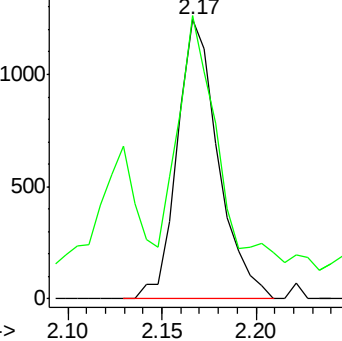
74 100

45 90.4 44.4 133.2

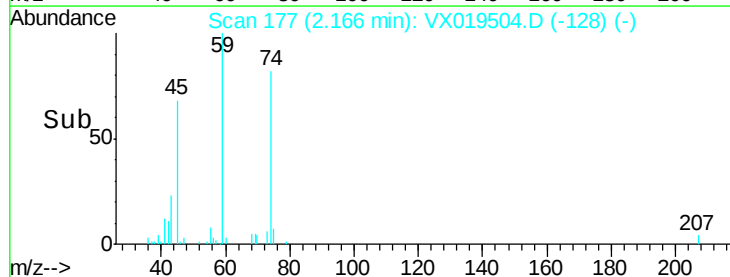


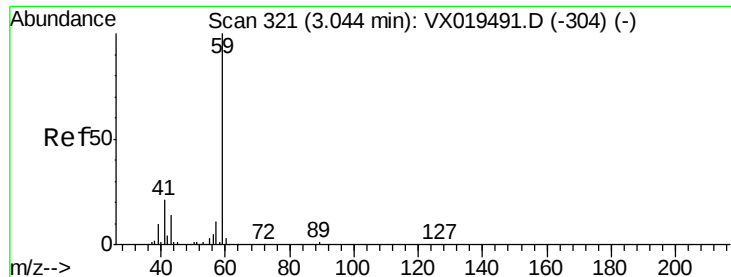
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->





#11

Tert butyl alcohol

Concen: 6.125 ug/l

RT: 3.04 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

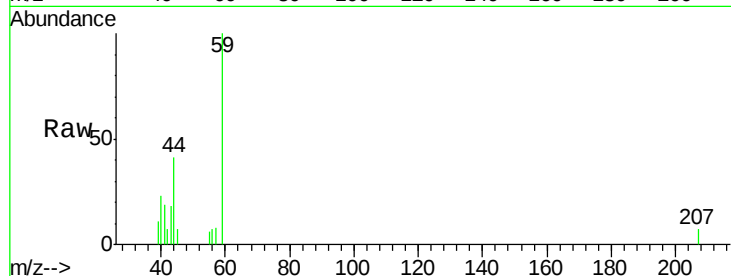
GW-02

Tot Ion: 59 Resp: 4099

Ion Ratio Lower Upper

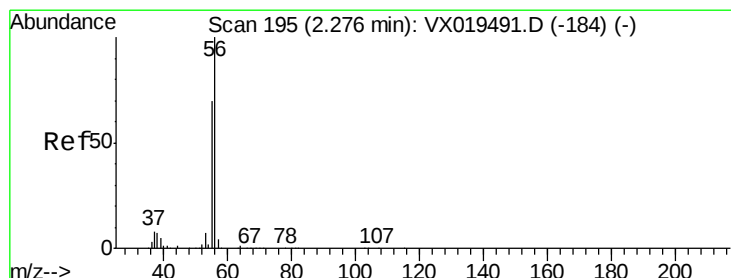
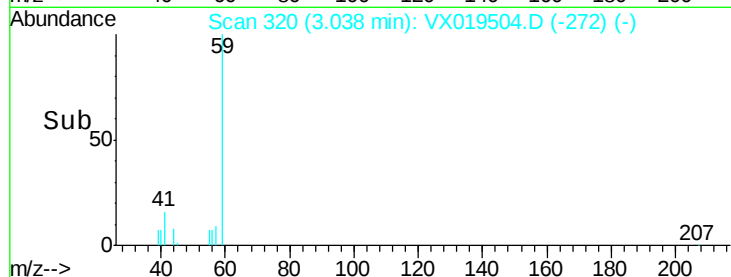
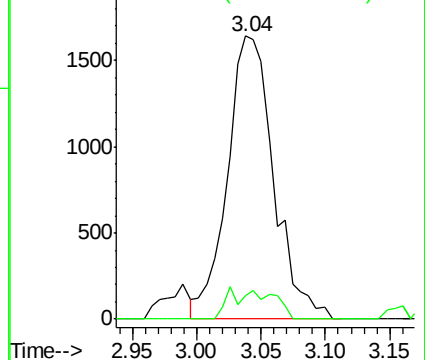
59 100

57 3.1 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 1.000 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX019504.D

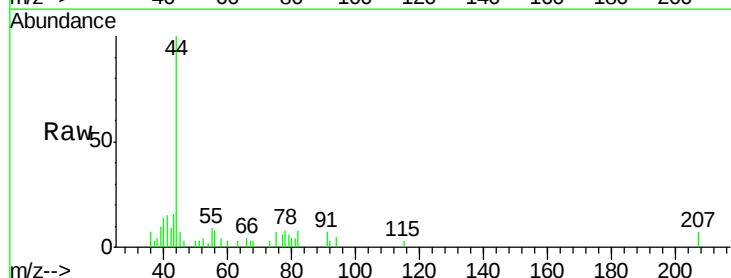
Acq: 20 Nov 2020 18:36

Tgt Ion: 56 Resp: 450

Ion Ratio Lower Upper

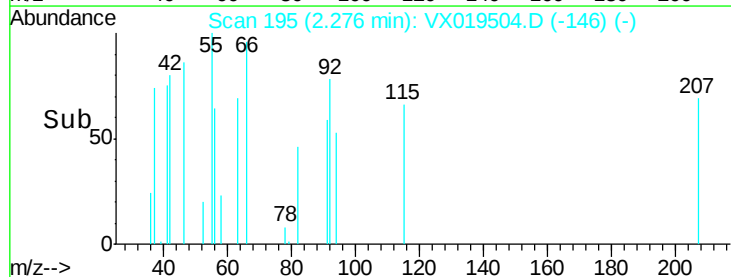
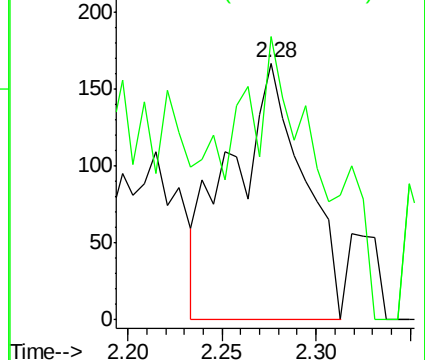
56 100

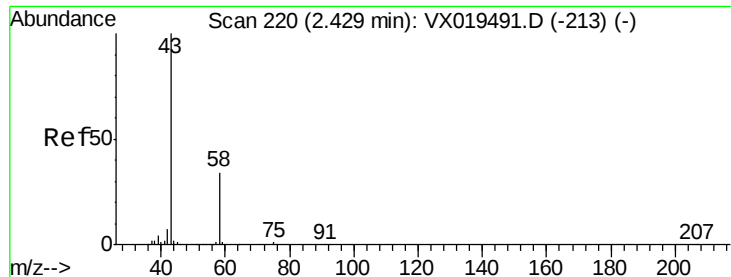
55 10.0 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.760 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

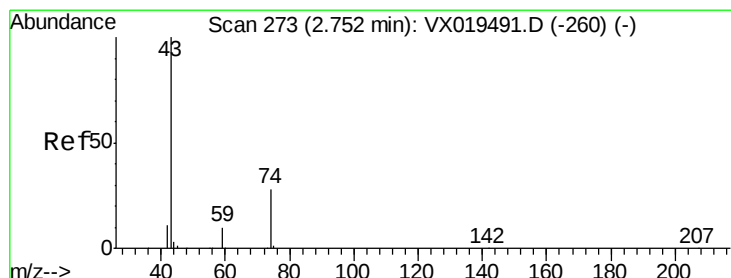
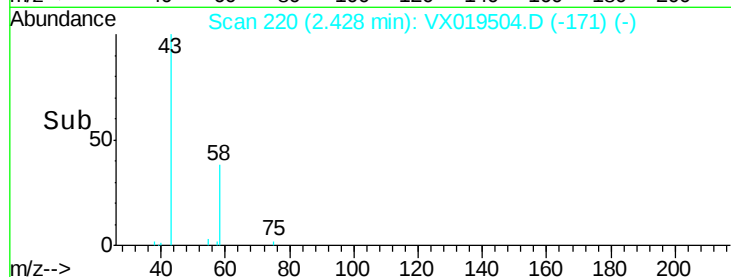
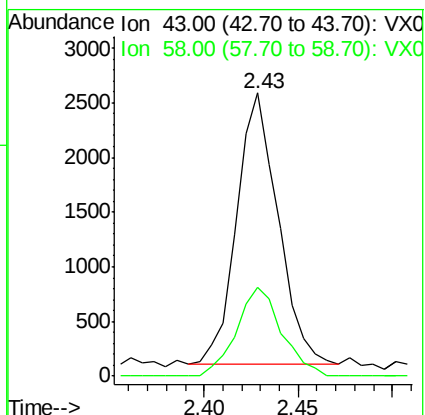
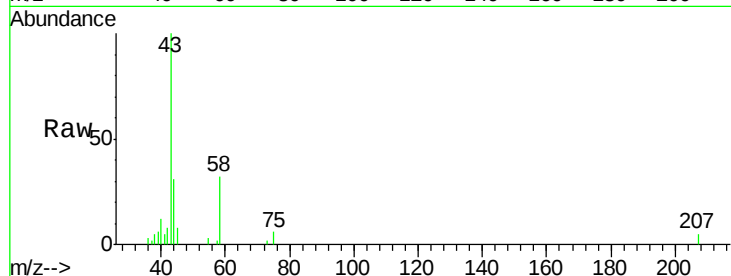
GW-02

Tot Ion: 43 Resp: 3774

Ion Ratio Lower Upper

43 100

58 32.9 27.4 41.2



#18

Methyl Acetate

Concen: 0.978 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019504.D

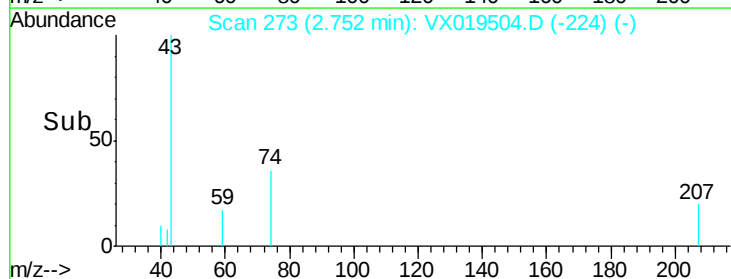
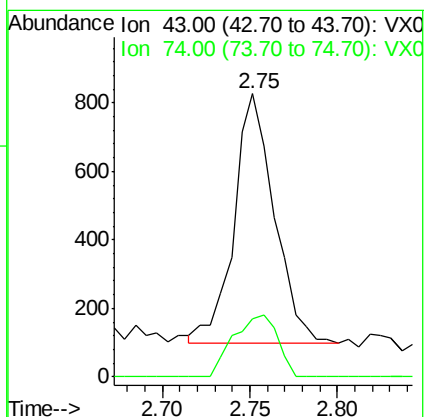
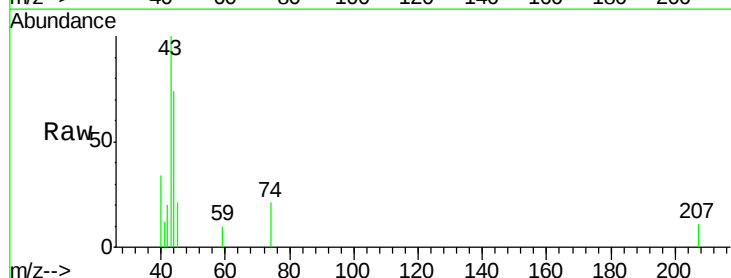
Acq: 20 Nov 2020 18:36

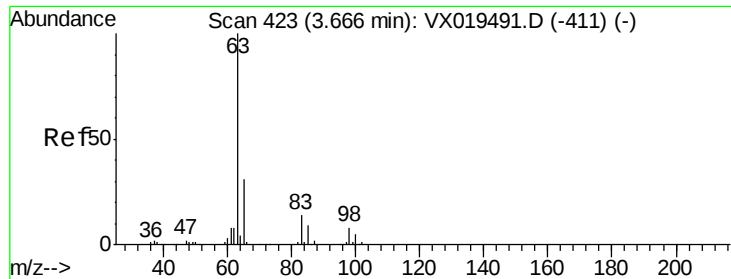
Tgt Ion: 43 Resp: 1168

Ion Ratio Lower Upper

43 100

74 27.1 22.2 33.4





#24

1,1-Dichloroethane

Concen: 0.530 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

GW-02

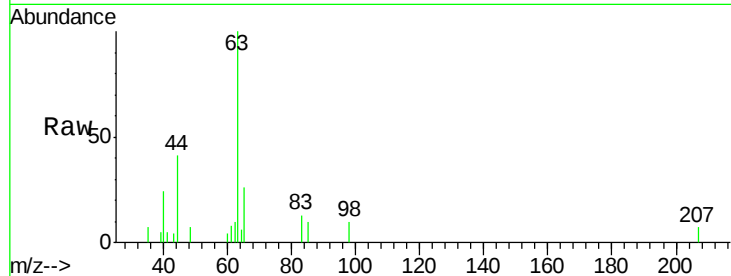
Tot Ion: 63 Resp: 2846

Ion Ratio Lower Upper

63 100

98 9.9 3.9 11.7

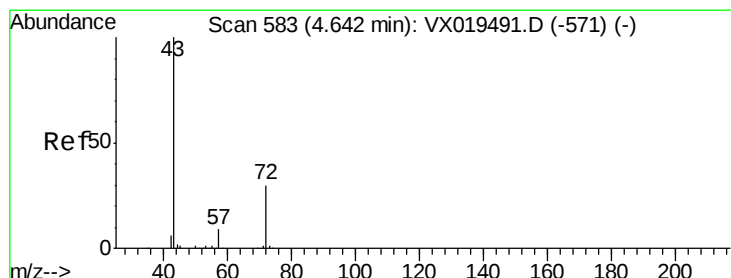
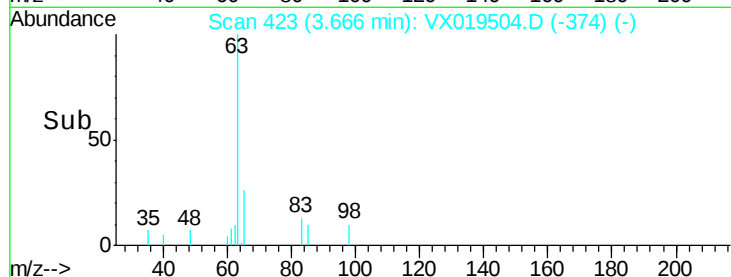
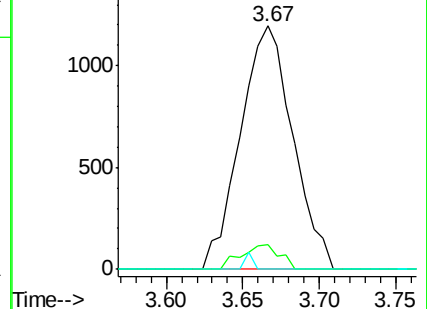
100 0.0 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.225 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX019504.D

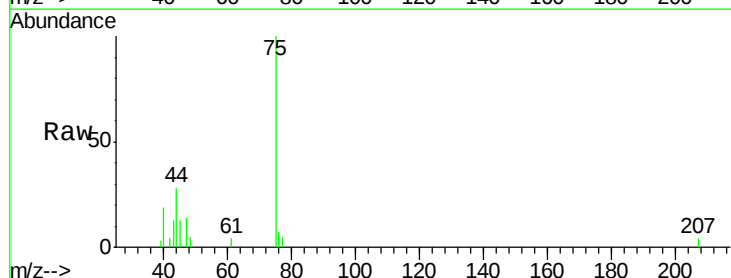
Acq: 20 Nov 2020 18:36

Tgt Ion: 43 Resp: 463

Ion Ratio Lower Upper

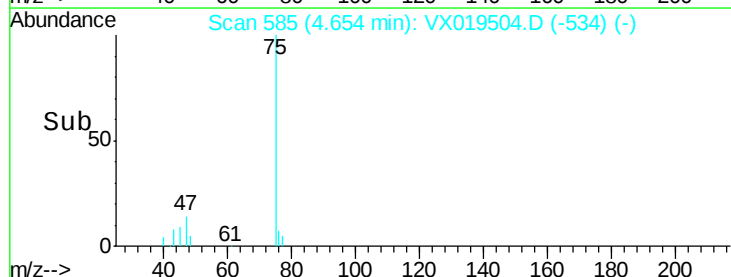
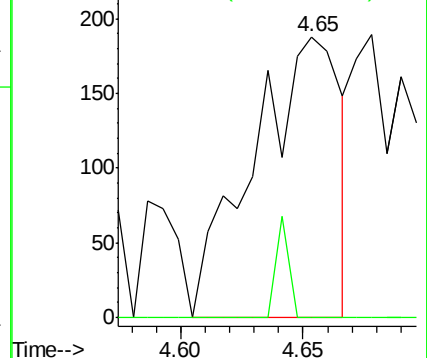
43 100

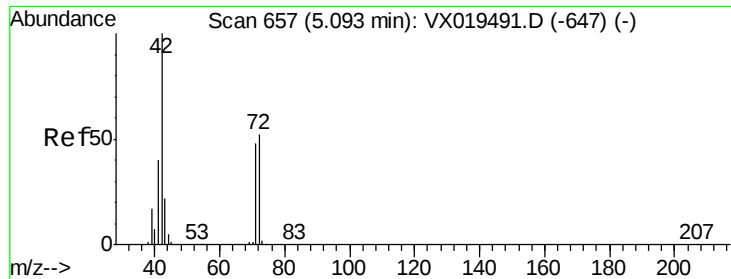
72 0.0 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

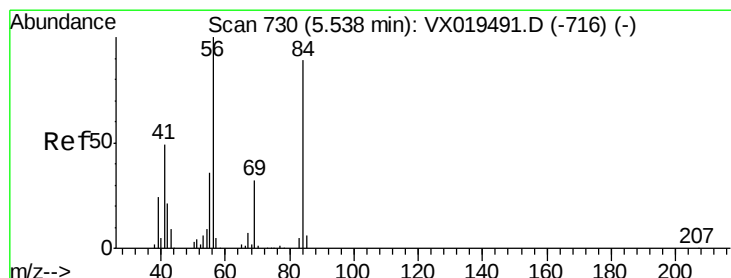
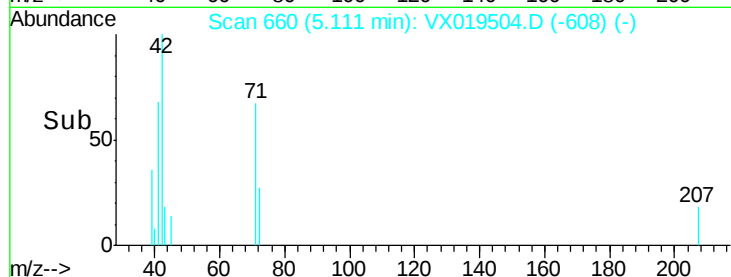
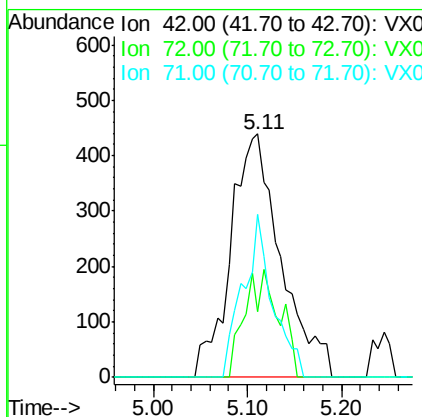
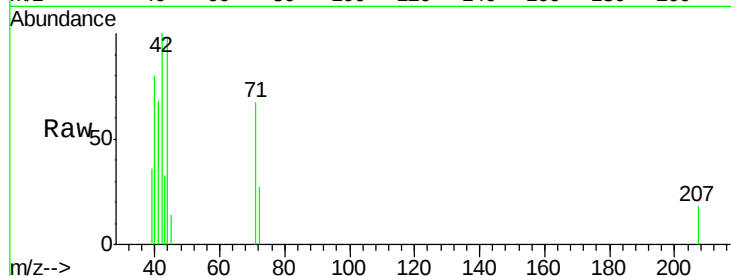




#29
Tetrahydrofuran
Concen: 1.250 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX019504.D
Acq: 20 Nov 2020 18:36

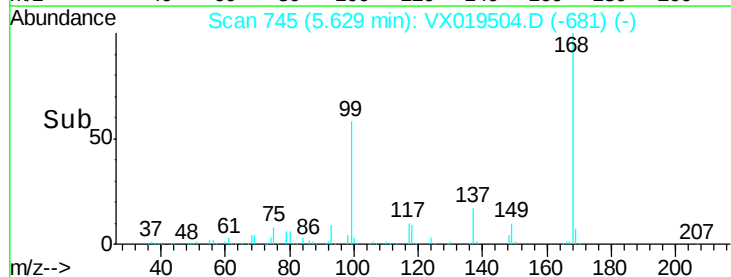
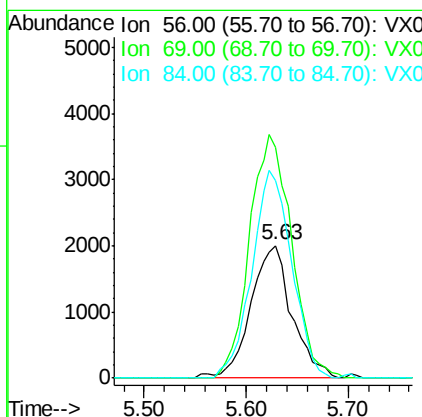
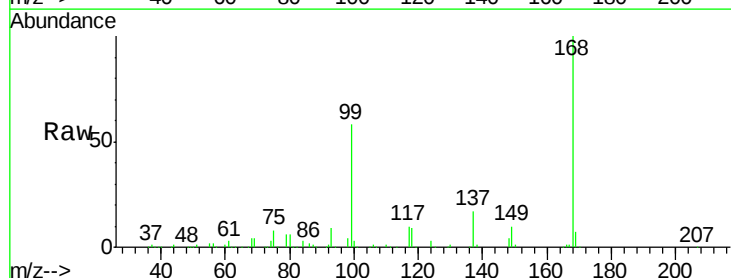
Instrument :
MSVOA_X
ClientSampleId :
GW-02

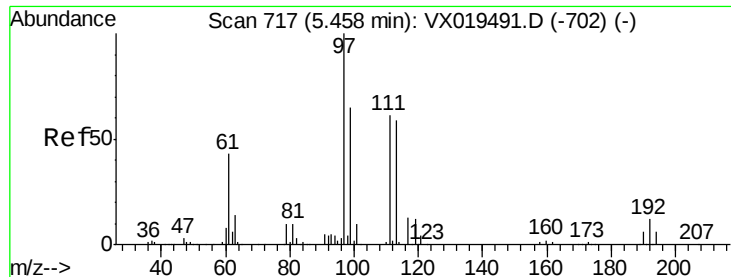
Tot Ion: 42 Resp: 1638
Ion Ratio Lower Upper
42 100
72 13.3 42.6 63.8#
71 39.4 39.0 58.6



#31
Cyclohexane
Concen: 1.223 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019504.D
Acq: 20 Nov 2020 18:36

Tgt Ion: 56 Resp: 5623
Ion Ratio Lower Upper
56 100
69 174.0 25.5 38.3#
84 149.1 71.1 106.7#





#32

1,1,1-Trichloroethane

Concen: 0.245 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

GW-02

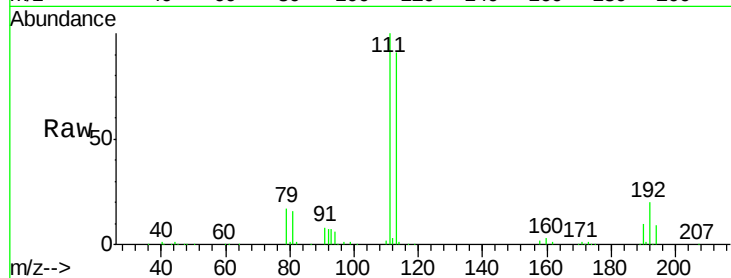
Tot Ion: 97 Resp: 1180

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

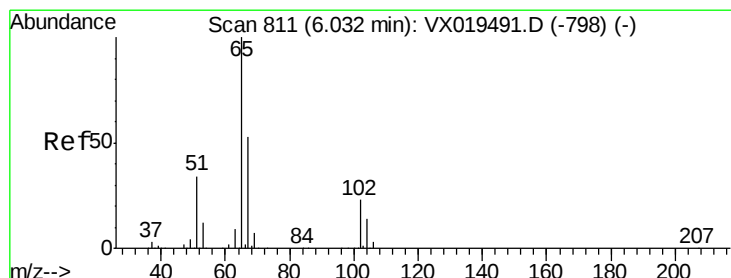
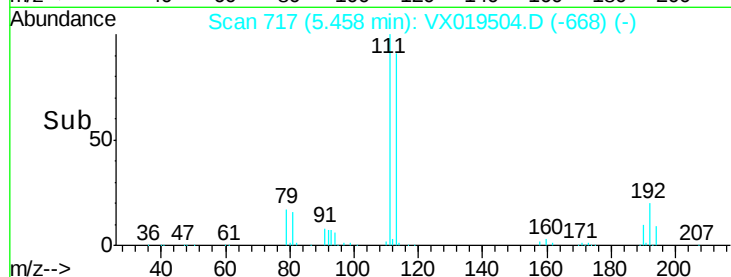
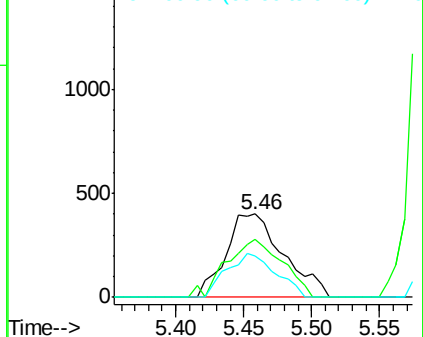
61 45.2 34.2 51.2



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.991 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019504.D

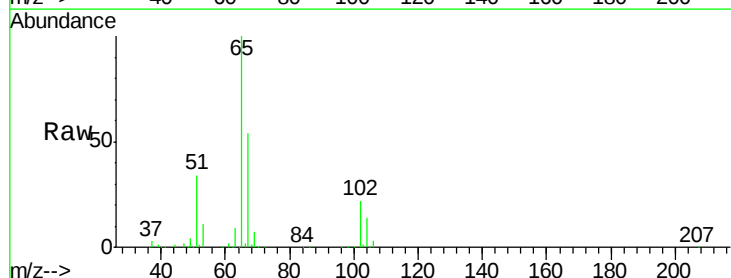
Acq: 20 Nov 2020 18:36

Tgt Ion: 65 Resp: 169690

Ion Ratio Lower Upper

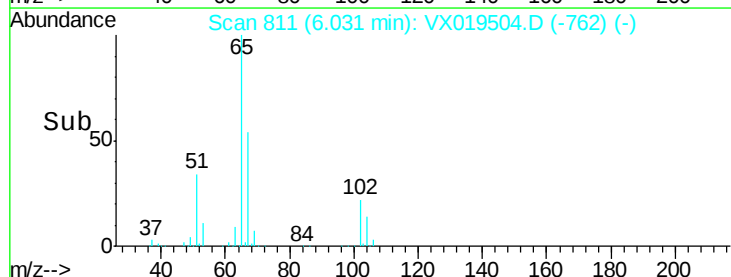
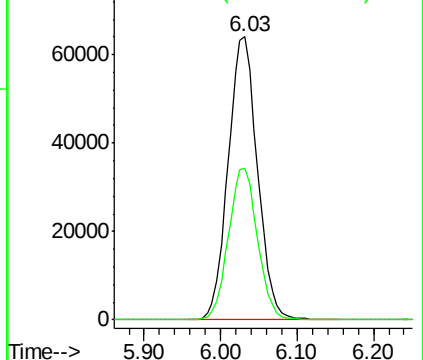
65 100

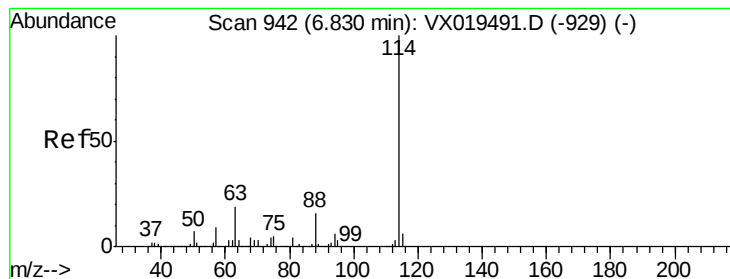
67 53.3 0.0 105.0



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: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

GW-02

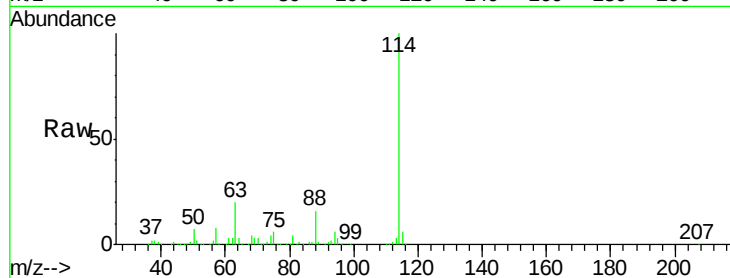
Tot Ion:114 Resp: 448220

Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.8

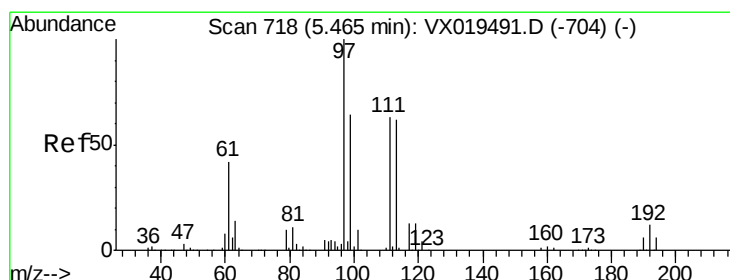
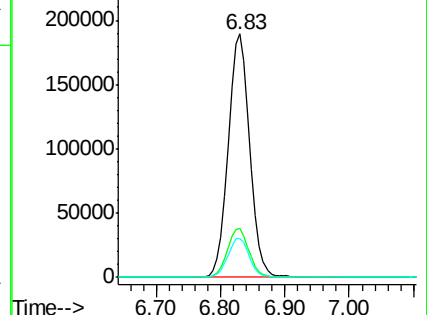
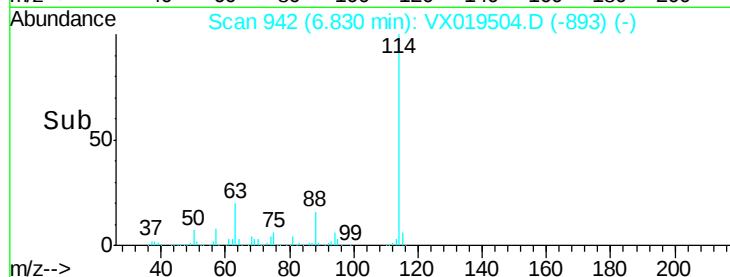
88 16.2 0.0 31.6



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: 47.741 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

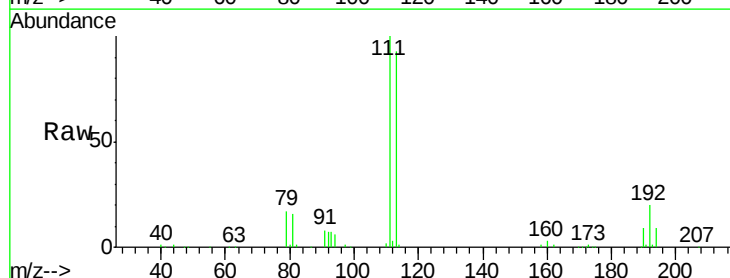
Tgt Ion:113 Resp: 134318

Ion Ratio Lower Upper

113 100

111 103.4 81.5 122.3

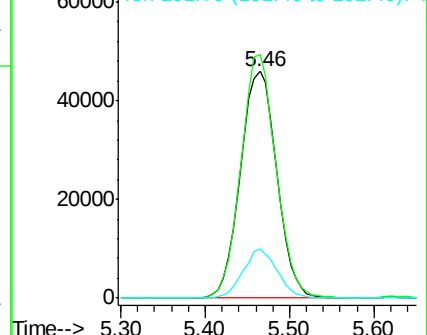
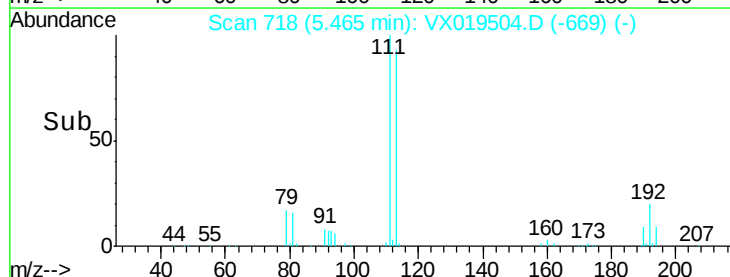
192 20.5 16.2 24.2

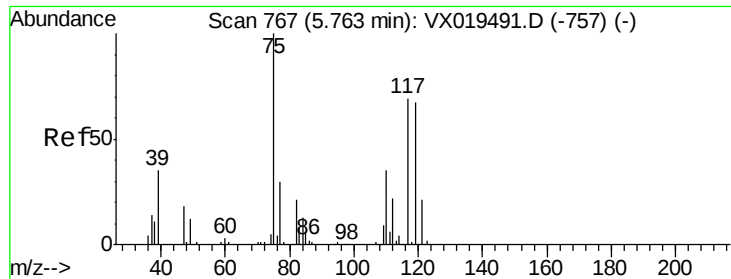


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.017 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

GW-02

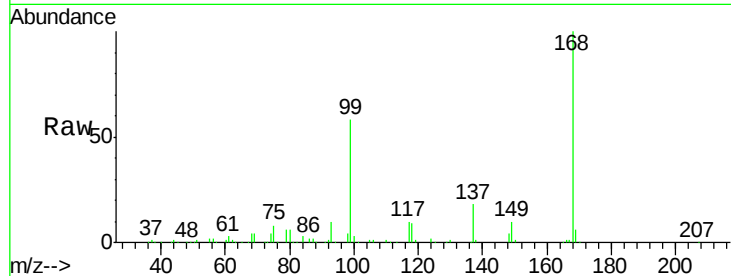
Tot Ion: 75 Resp: 21083

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.3#

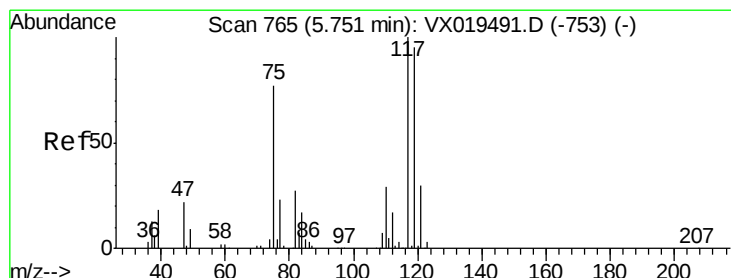
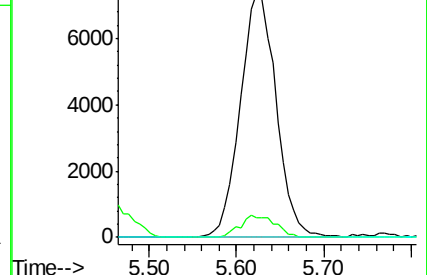
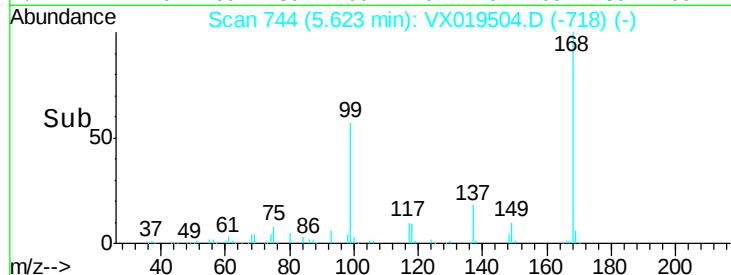
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VX019504.D (-718) (-)

Ion 109.90 (109.60 to 110.60): VX019504.D (-718) (-)

Ion 76.90 (76.60 to 77.60): VX019504.D (-718) (-)



#38

Carbon Tetrachloride

Concen: 6.701 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

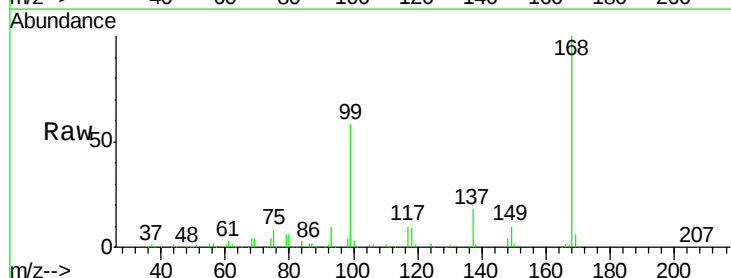
Tgt Ion: 117 Resp: 27254

Ion Ratio Lower Upper

117 100

119 5.3 75.9 113.9#

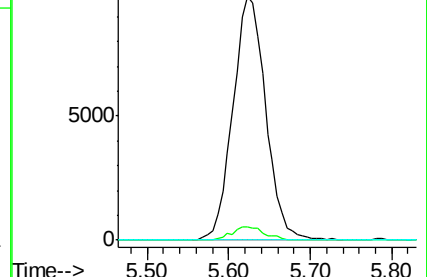
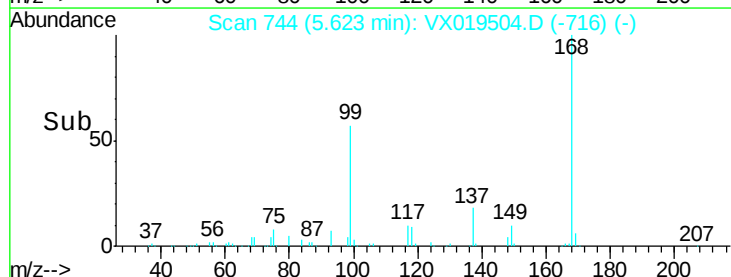
121 0.0 24.0 36.0#

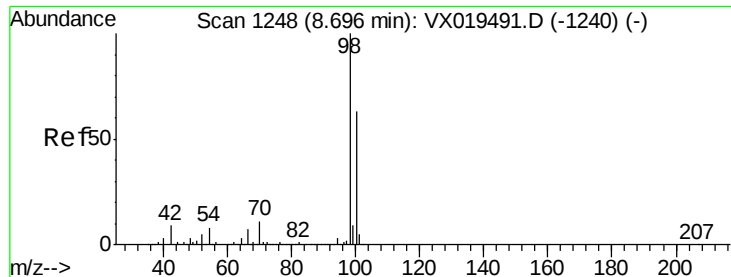


Abundance Ion 116.80 (116.50 to 117.50): VX019504.D (-716) (-)

Ion 118.80 (118.50 to 119.50): VX019504.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX019504.D (-716) (-)





#50

Toluene-d8

Concen: 49.103 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

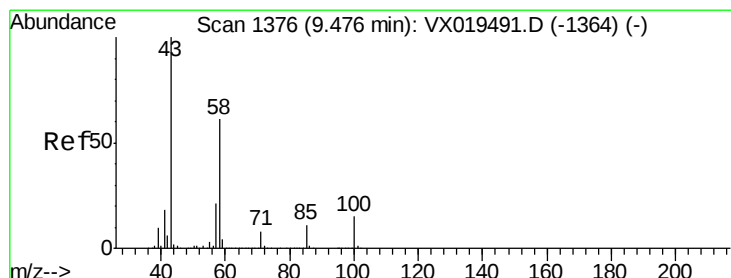
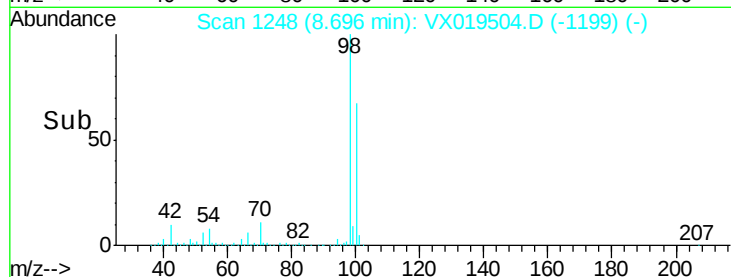
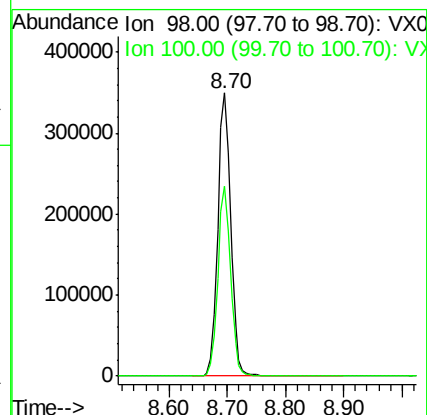
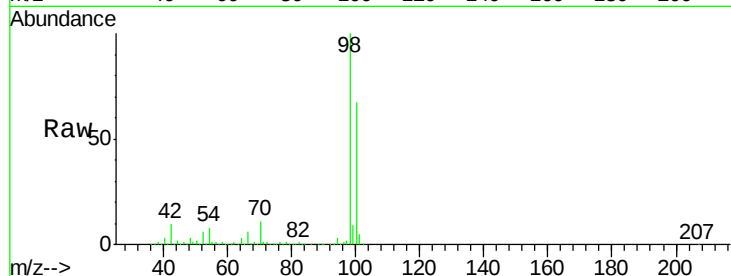
GW-02

Tot Ion: 98 Resp: 536837

Ion Ratio Lower Upper

98 100

100 66.1 52.4 78.6



#59

2-Hexanone

Concen: 0.494 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019504.D

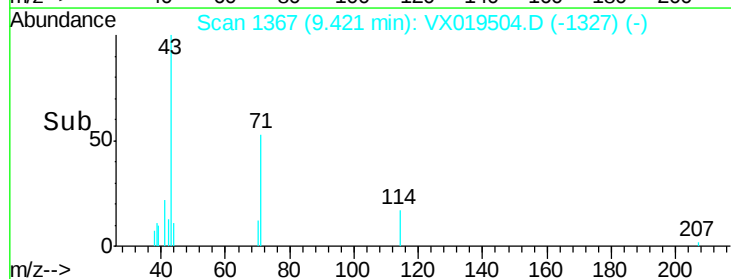
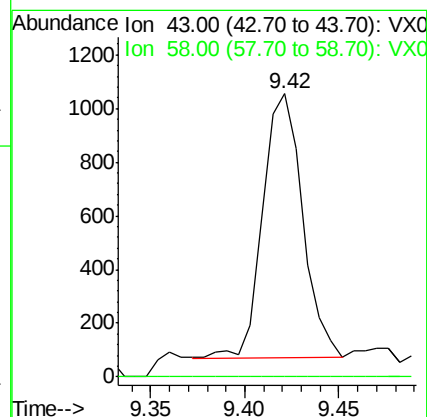
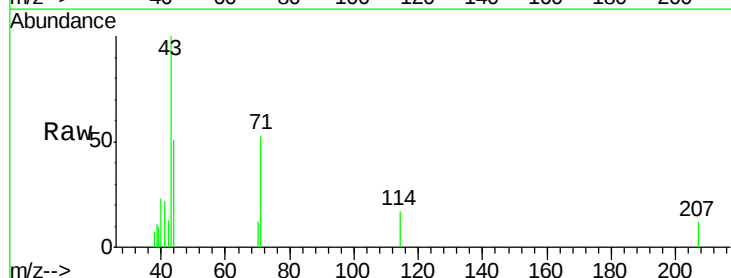
Acq: 20 Nov 2020 18:36

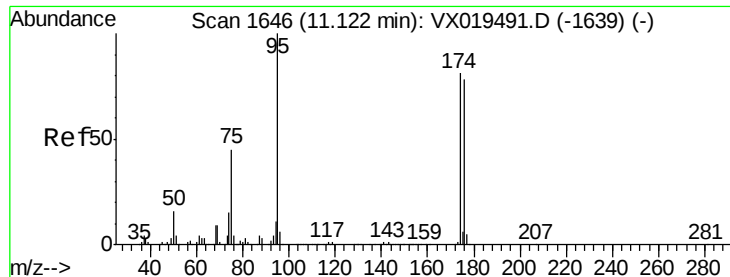
Tgt Ion: 43 Resp: 1450

Ion Ratio Lower Upper

43 100

58 0.0 30.6 91.6#





#62

4-Bromofluorobenzene

Concen: 46.064 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

GW-02

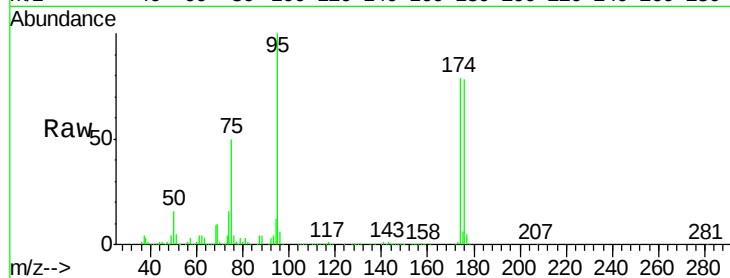
Tot Ion: 95 Resp: 181194

Ion Ratio Lower Upper

95 100

174 78.7 0.0 156.2

176 76.1 0.0 151.4



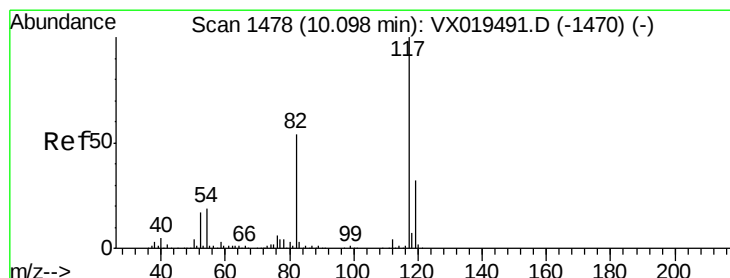
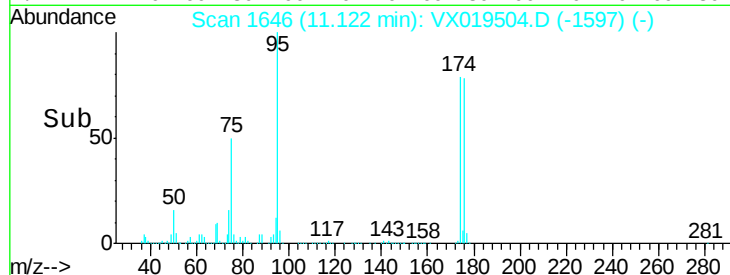
Abundance Ion 94.90 (94.60 to 95.60): VX019491.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019491.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019491.D (-1639) (-)

11.12

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

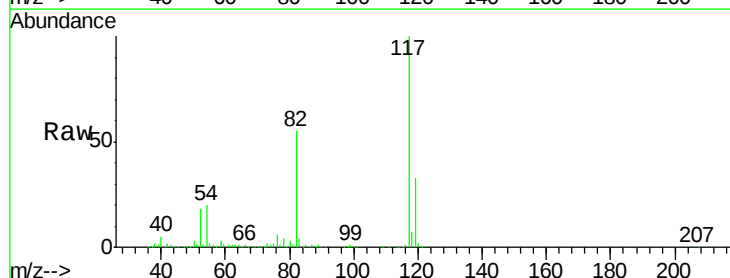
Tgt Ion: 117 Resp: 401203

Ion Ratio Lower Upper

117 100

82 55.3 43.0 64.4

119 32.6 25.6 38.4



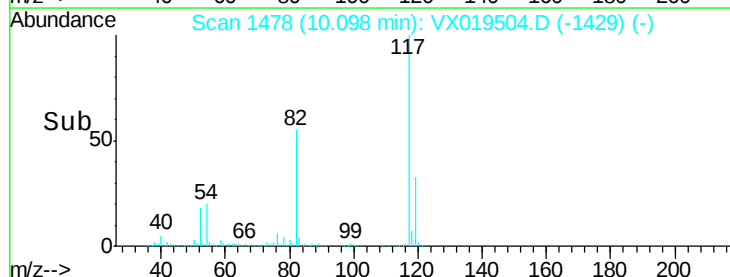
Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

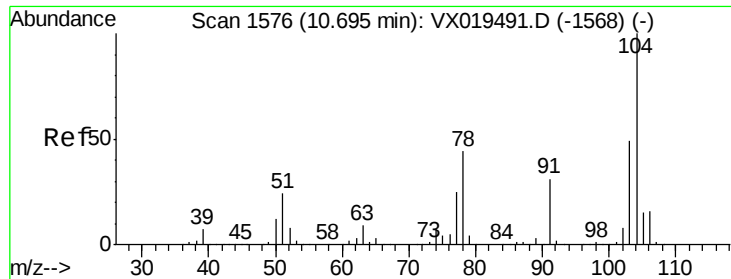
Ion 82.00 (81.70 to 82.70): VX019491.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019491.D (-1470) (-)

10.10

Time-->

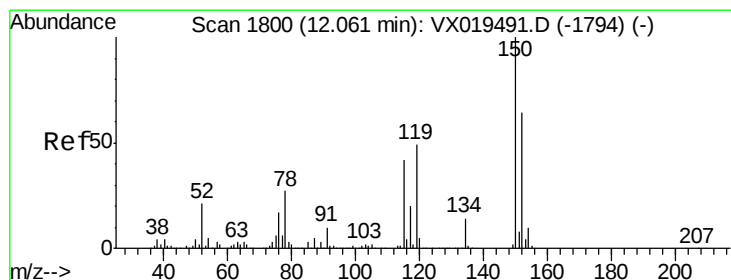
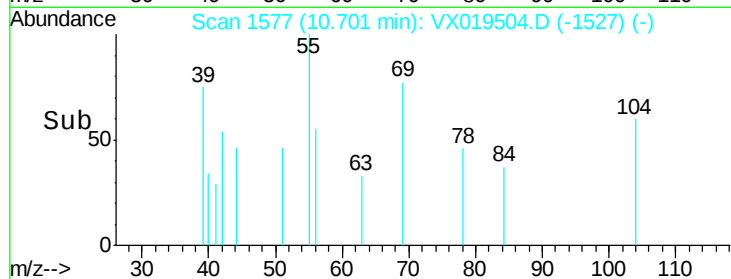
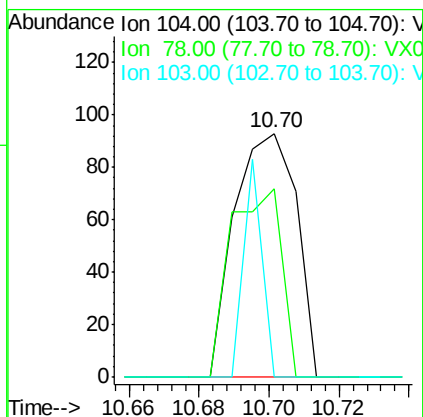
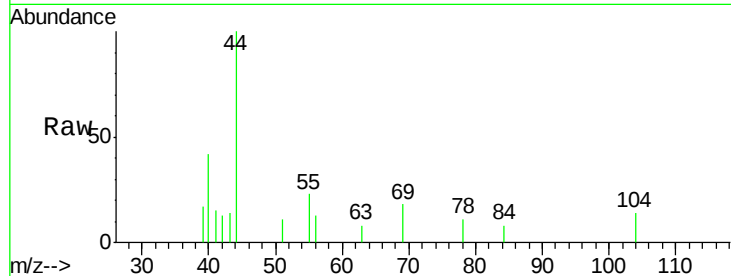




#70
Stvrene
Concen: 1.657 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019504.D
Acq: 20 Nov 2020 18:36

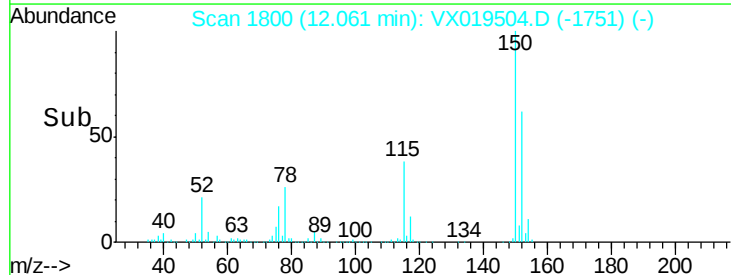
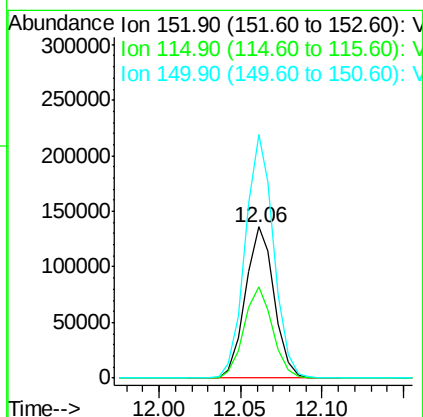
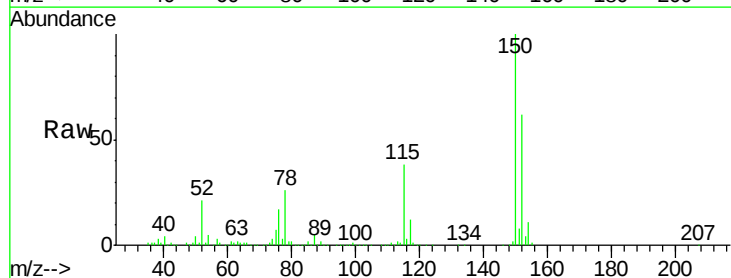
Instrument :
MSVOA_X
ClientSampleId :
GW-02

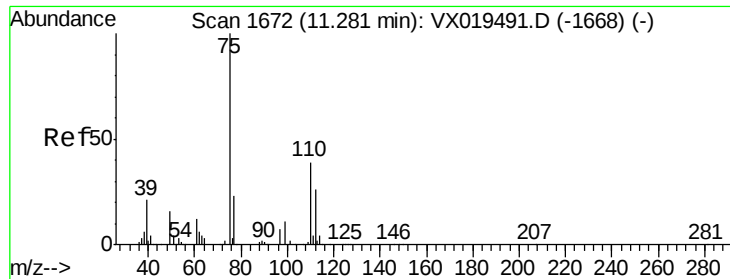
Tot Ion:104 Resp: 114
Ion Ratio Lower Upper
104 100
78 63.2 39.5 59.3#
103 26.3 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019504.D
Acq: 20 Nov 2020 18:36

Tgt Ion:152 Resp: 167277
Ion Ratio Lower Upper
152 100
115 60.0 41.8 125.4
150 158.5 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 24.681 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

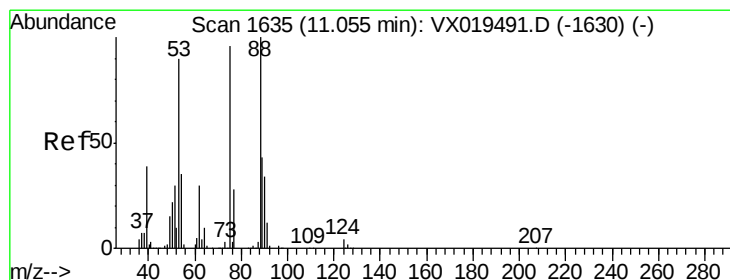
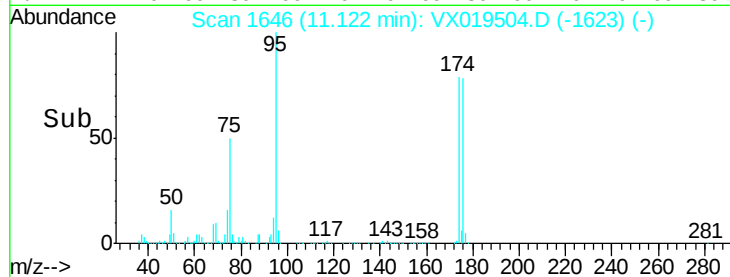
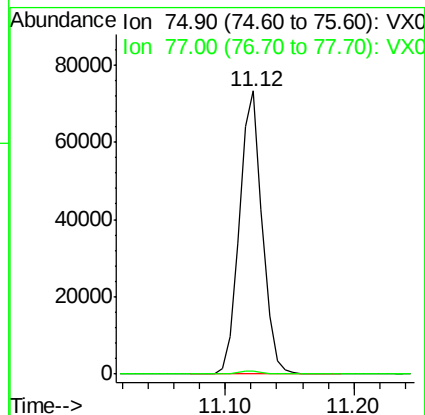
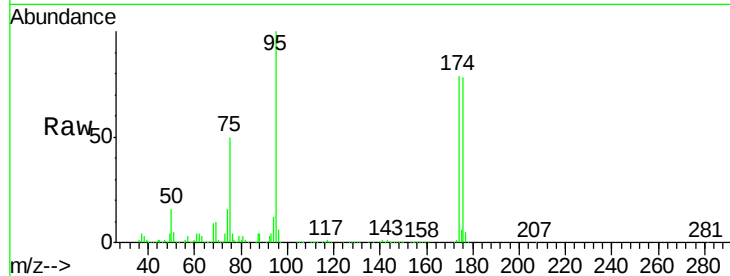
GW-02

Tot Ion: 75 Resp: 90100

Ion Ratio Lower Upper

75 100

77 1.2 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.251 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

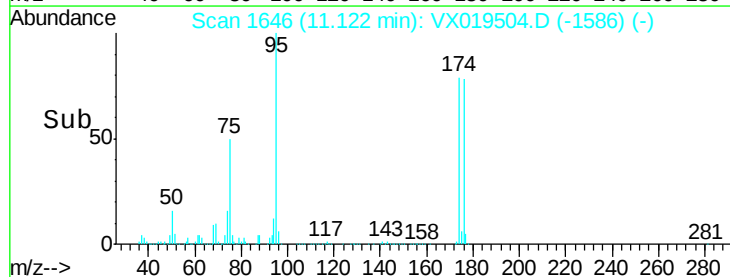
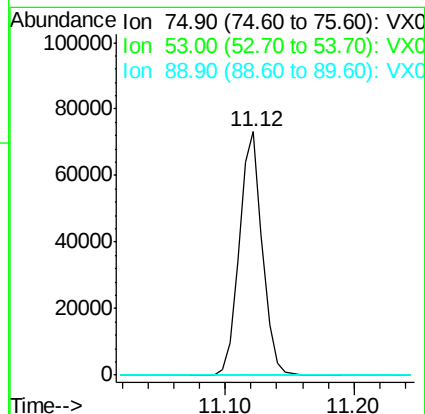
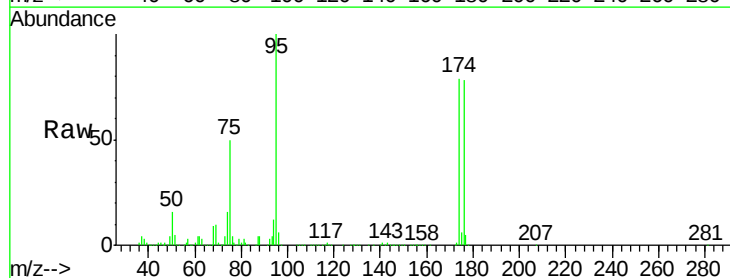
Tgt Ion: 75 Resp: 90100

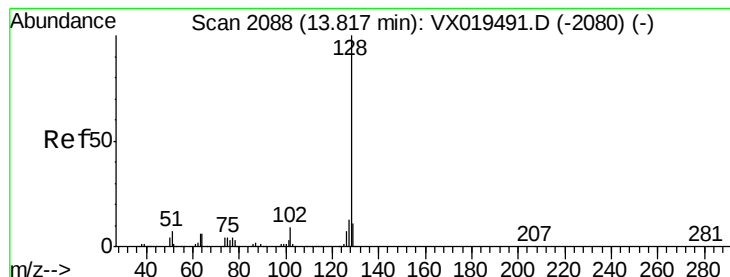
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.216 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019504.D

Acq: 20 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

GW-02

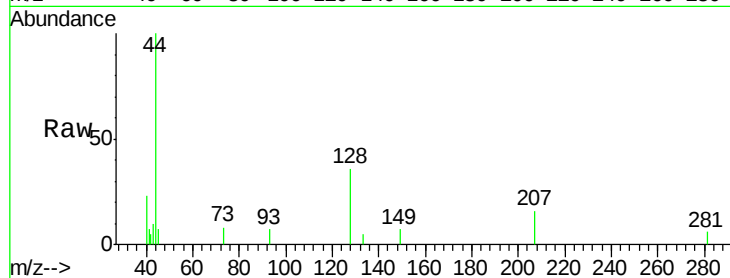
Tot Ion:128 Resp: 492

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

