

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019290.D
 Acq On : 04 Nov 2020 23:25
 Operator : JC/MD
 Sample : L4607-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-02

Quant Time: Nov 05 02:29:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	279644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	501716	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	482558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	237238	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	200015	55.46	ug/l	0.00
Spiked Amount			Recovery	=	110.92%	
35) Dibromofluoromethane	5.46	113	156835	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
50) Toluene-d8	8.70	98	627898	52.85	ug/l	0.00
Spiked Amount			Recovery	=	105.70%	
62) 4-Bromofluorobenzene	11.12	95	238566	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	

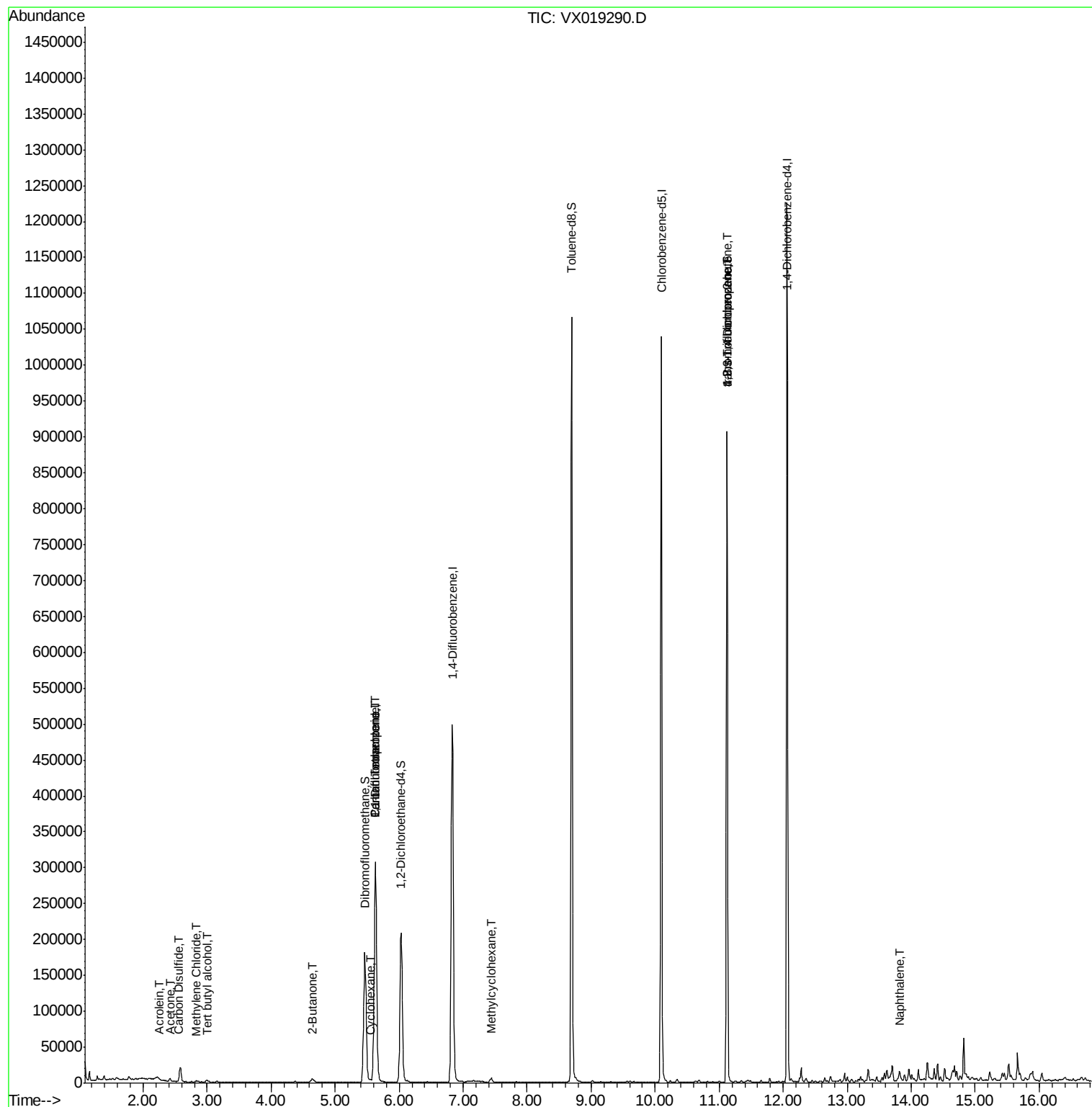
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	2474	3.473	ug/l #	75
13) Acrolein	2.26	56	26	5.728	ug/l #	1
16) Acetone	2.42	43	4739	3.809	ug/l	97
17) Carbon Disulfide	2.55	76	681	0.847	ug/l #	75
20) Methylene Chloride	2.83	84	785	0.251	ug/l	89
25) 2-Butanone	4.65	43	1225	0.625	ug/l #	85
31) Cyclohexane	5.56	56	2031	0.446	ug/l	90
36) 1,1-Dichloropropene	5.63	75	23077	4.981	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29570	6.262	ug/l #	17
39) Methylcyclohexane	7.44	83	2505	0.452	ug/l #	92
76) 1,2,3-Trichloropropane	11.12	75	123049	25.120	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	123049	66.141	ug/l #	12
95) Naphthalene	13.82	128	8718	0.494	ug/l #	88

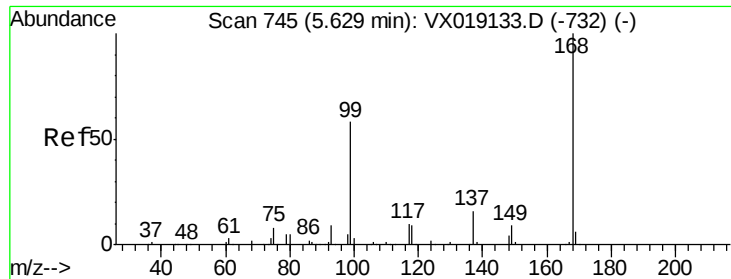
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampleId :

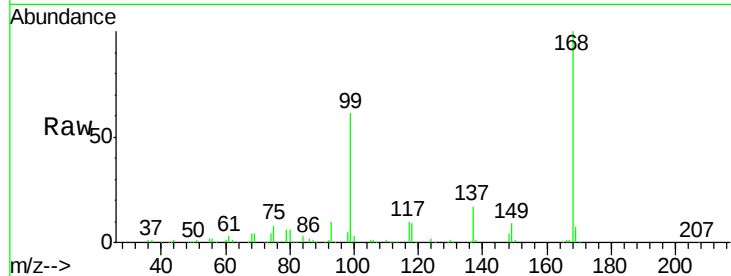
OW-02

Tot Ion:168 Resp: 279644

Ion Ratio Lower Upper

168 100

99 61.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

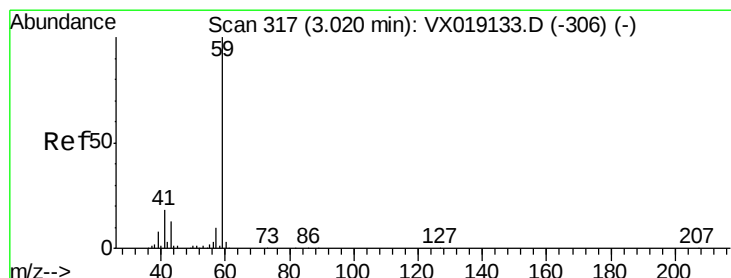
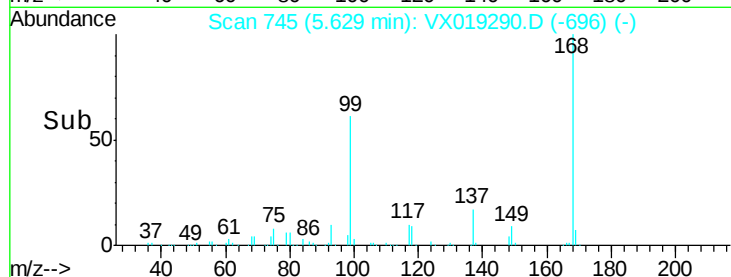
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#11

Tert butyl alcohol

Concen: 3.473 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX019290.D

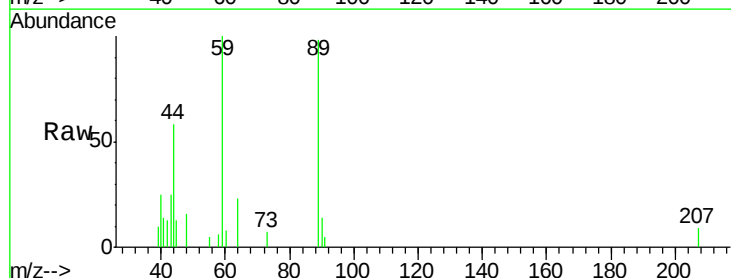
Acq: 04 Nov 2020 23:25

Tgt Ion: 59 Resp: 2474

Ion Ratio Lower Upper

59 100

57 1.1 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

1000

800

600

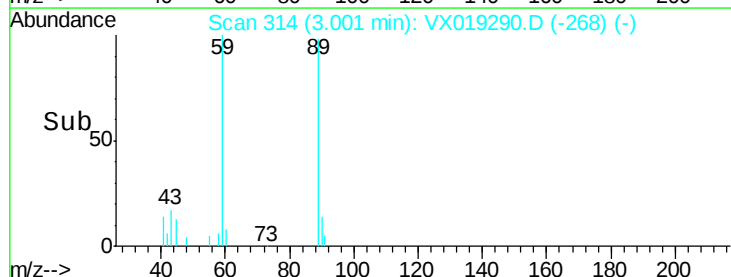
400

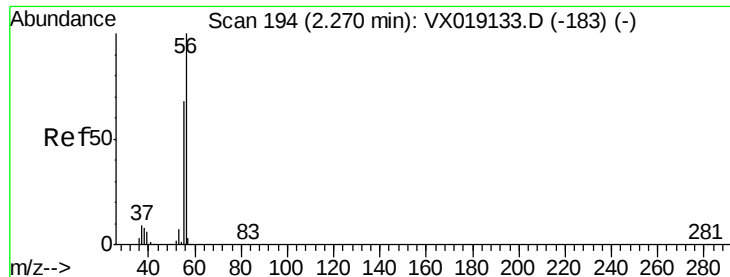
200

0

2.90 2.95 3.00 3.05 3.10

Time-->





#13

Acrolein

Concen: 5.728 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampled :

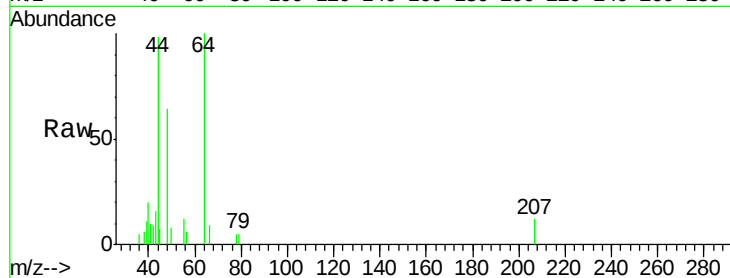
OW-02

Tot Ion: 56 Resp: 26

Ion Ratio Lower Upper

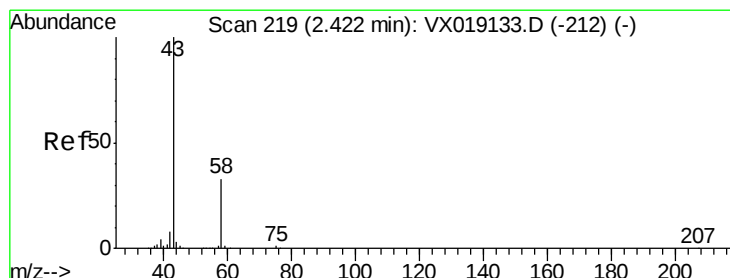
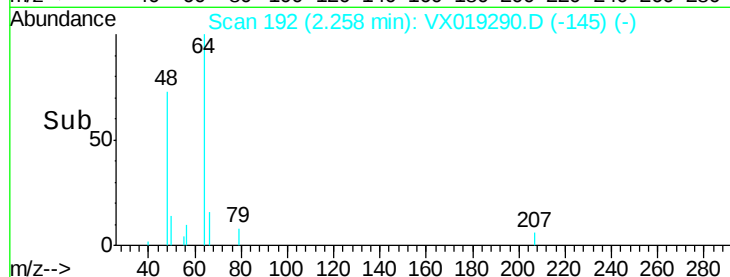
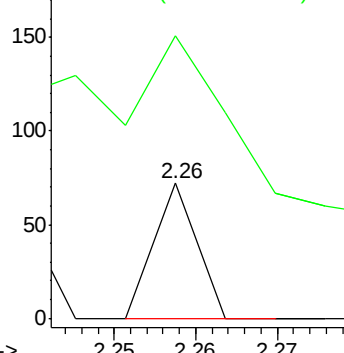
56 100

55 434.6 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.809 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX019290.D

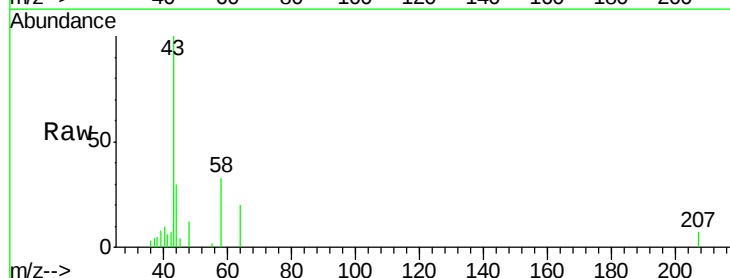
Acq: 04 Nov 2020 23:25

Tgt Ion: 43 Resp: 4739

Ion Ratio Lower Upper

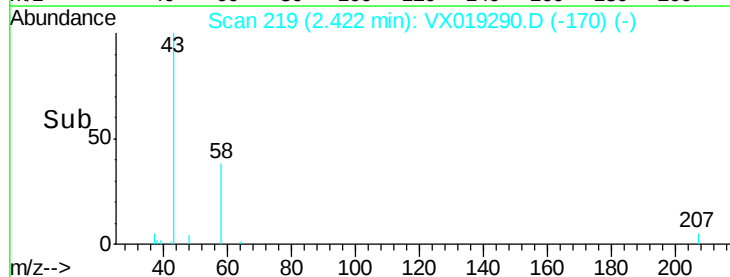
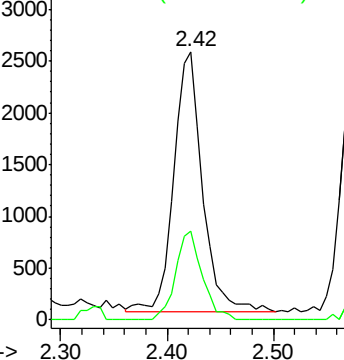
43 100

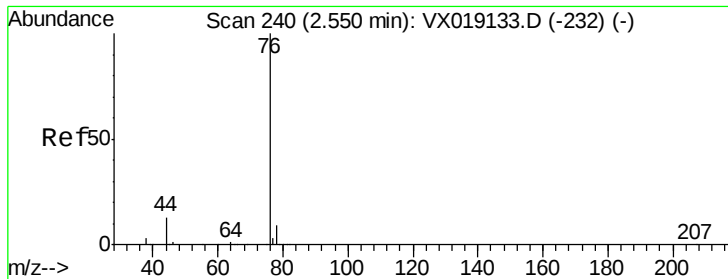
58 34.4 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.847 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampled :

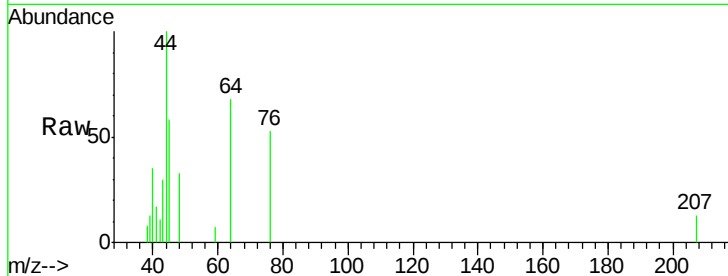
OW-02

Tot Ion: 76 Resp: 681

Ion Ratio Lower Upper

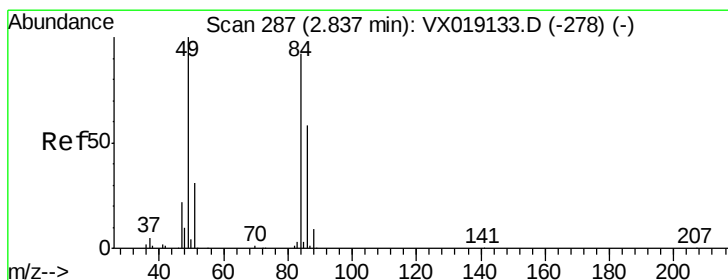
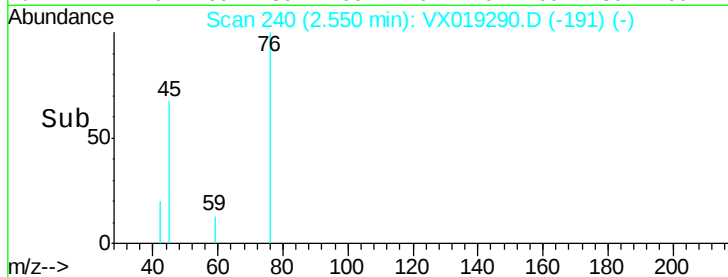
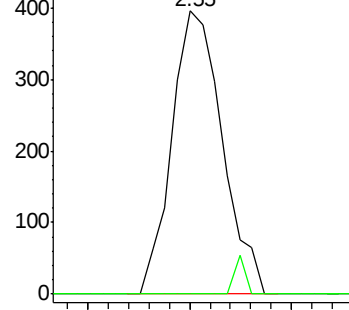
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.251 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Tgt Ion: 84 Resp: 785

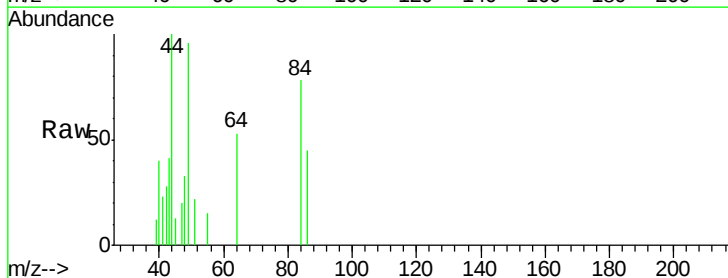
Ion Ratio Lower Upper

84 100

49 123.4 86.8 130.2

51 28.6 27.3 40.9

86 57.4 50.6 76.0

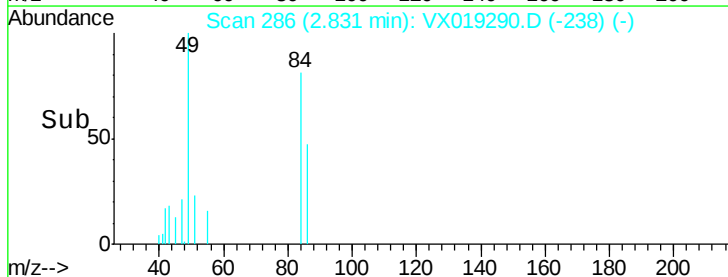
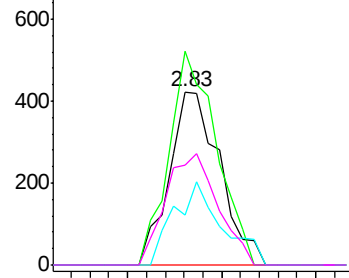


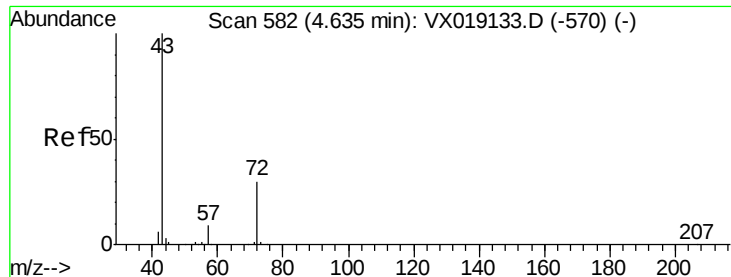
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.625 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampled :

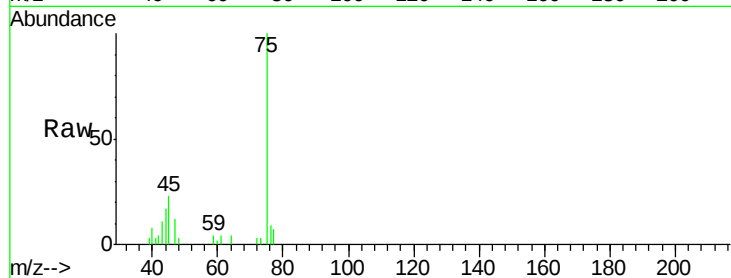
OW-02

Tot Ion: 43 Resp: 1225

Ion Ratio Lower Upper

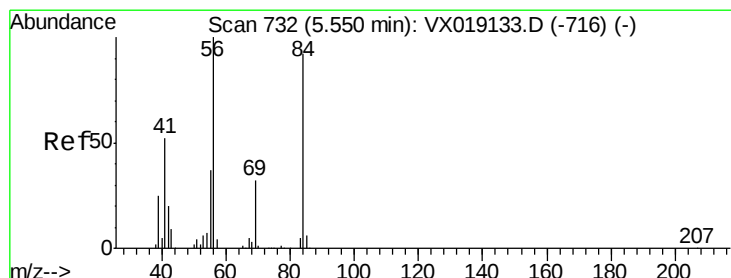
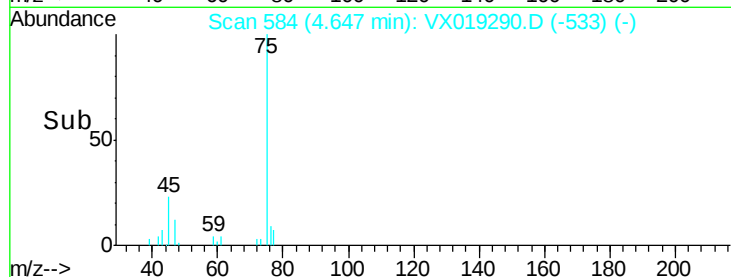
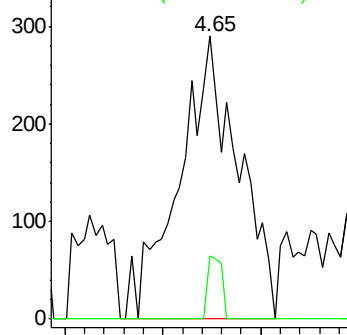
43 100

72 22.4 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 0.446 ug/l

RT: 5.56 min Scan# 733

Delta R.T. 0.01 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

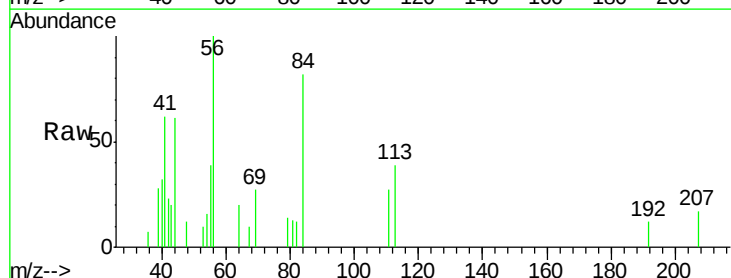
Tgt Ion: 56 Resp: 2031

Ion Ratio Lower Upper

56 100

69 26.5 25.9 38.9

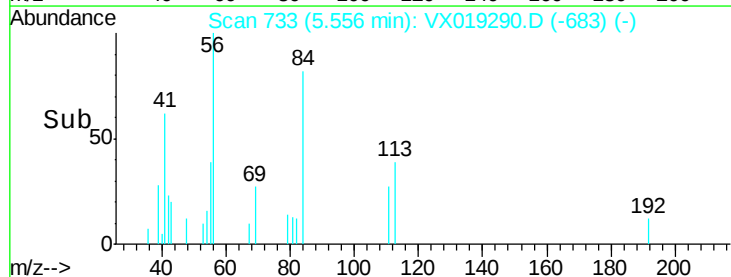
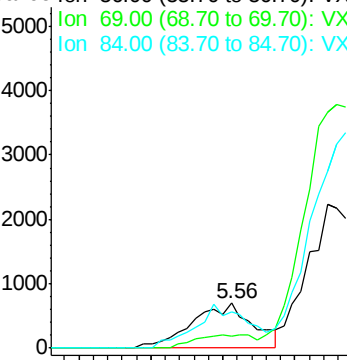
84 81.8 73.4 110.2

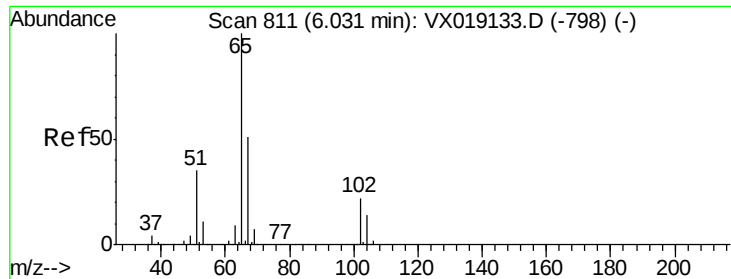


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

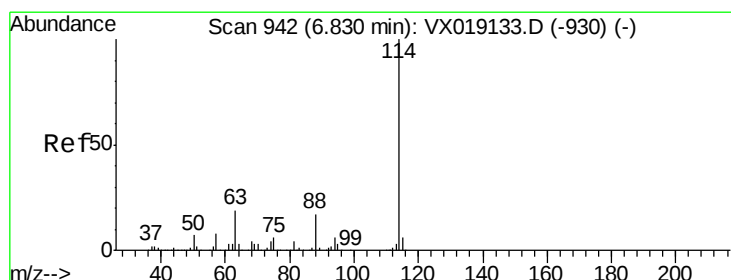
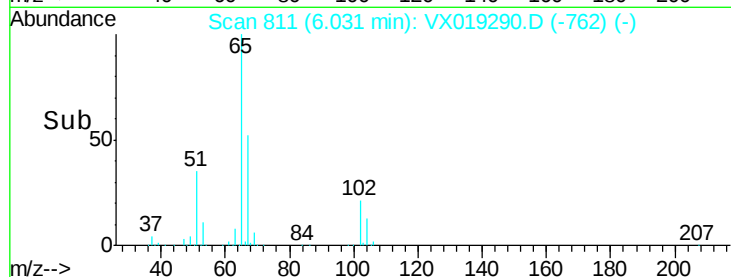
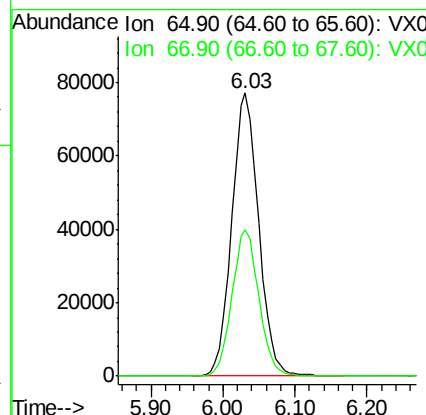
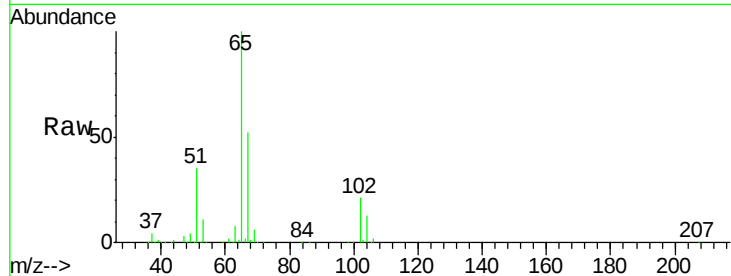




#33
 1,2-Dichloroethane-d4
 Concen: 55.462 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019290.D
 Acq: 04 Nov 2020 23:25

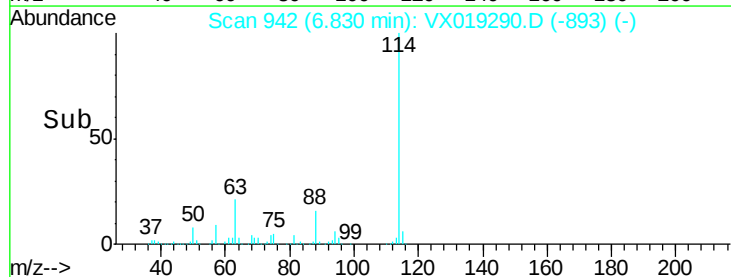
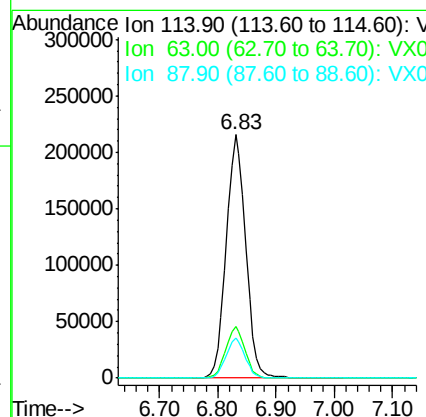
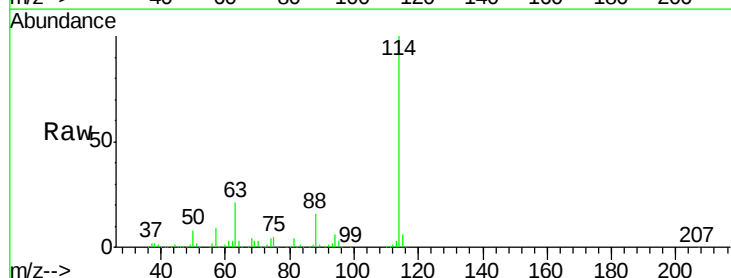
Instrument :
 MSVOA_X
 ClientSampleId :
 OW-02

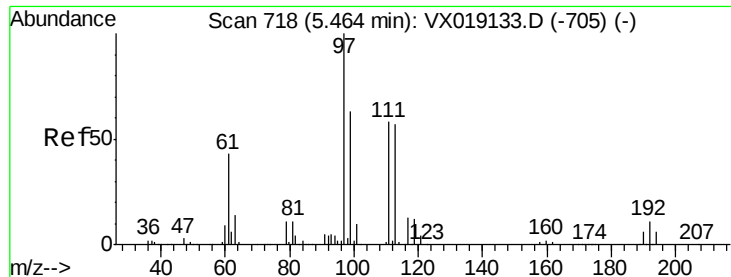
Tot Ion: 65 Resp: 200015
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019290.D
 Acq: 04 Nov 2020 23:25

Tgt Ion: 114 Resp: 501716
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 38.8
 88 16.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.766 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampleId :

OW-02

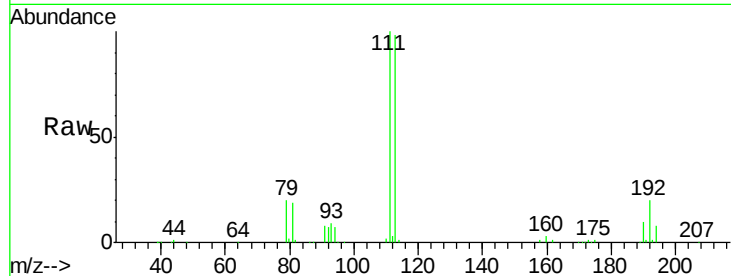
Tot Ion:113 Resp: 156835

Ion Ratio Lower Upper

113 100

111 103.5 82.3 123.5

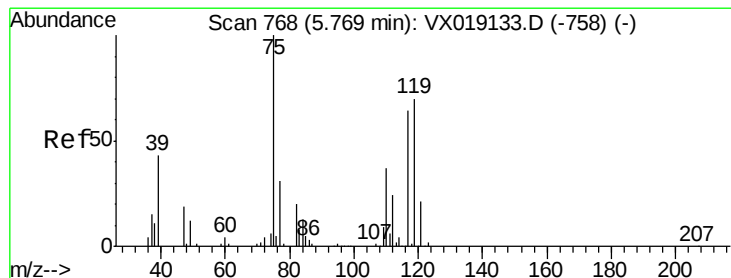
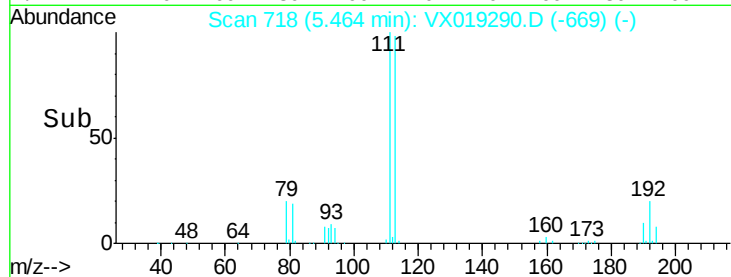
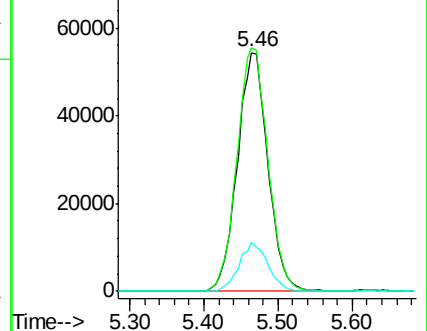
192 19.4 16.2 24.2



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: 4.981 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

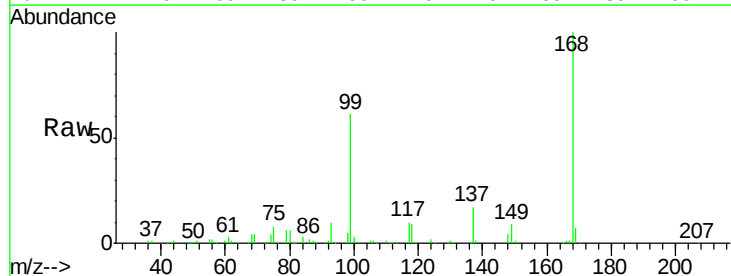
Tgt Ion: 75 Resp: 23077

Ion Ratio Lower Upper

75 100

110 9.5 18.3 54.9#

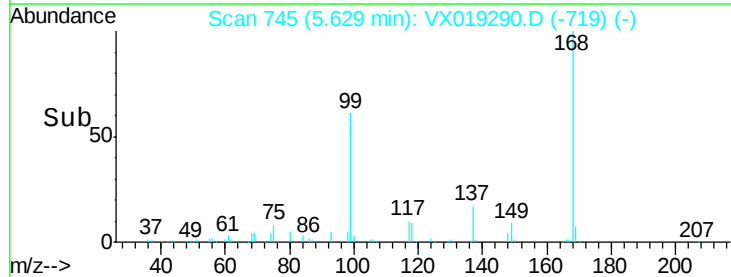
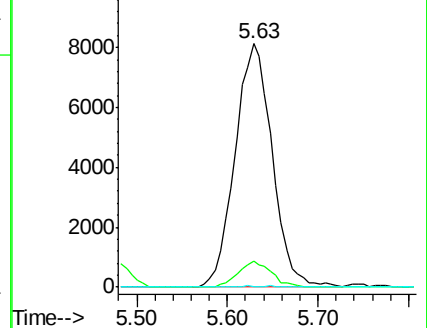
77 0.1 24.9 37.3#

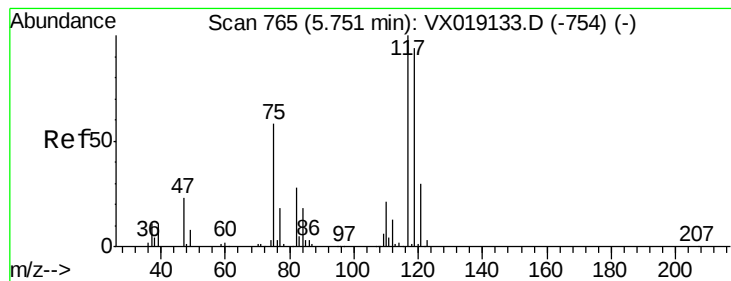


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.262 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampleId :

OW-02

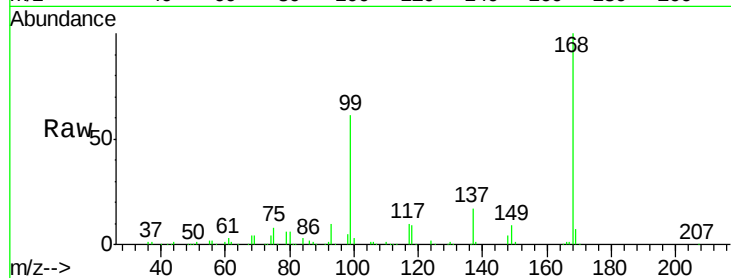
Tot Ion:117 Resp: 29570

Ion Ratio Lower Upper

117 100

119 4.9 75.0 112.6#

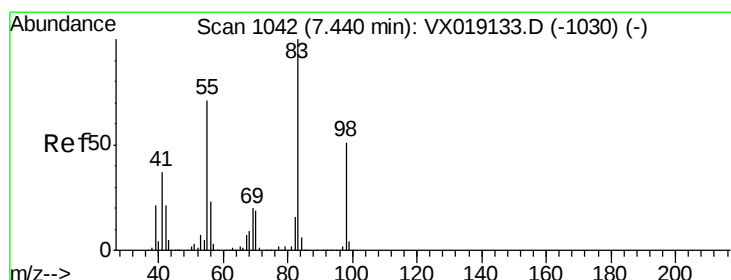
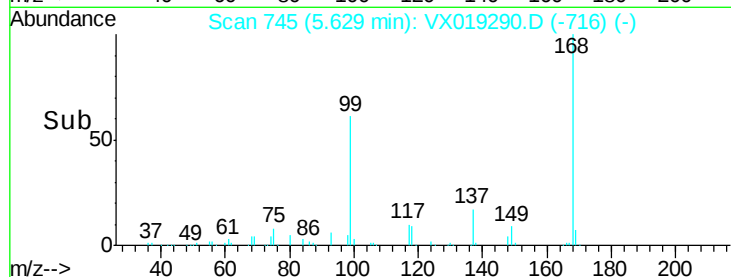
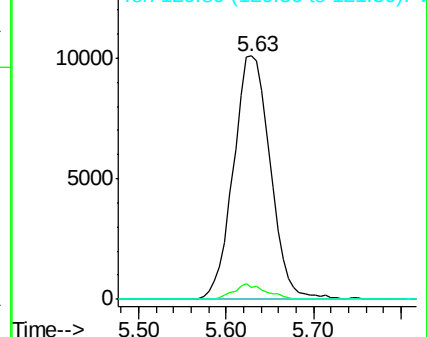
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.452 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

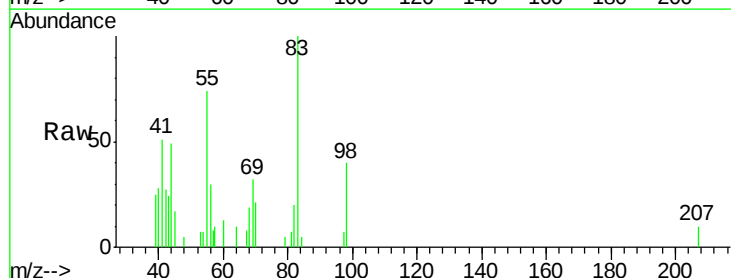
Tgt Ion: 83 Resp: 2505

Ion Ratio Lower Upper

83 100

55 73.9 57.0 85.6

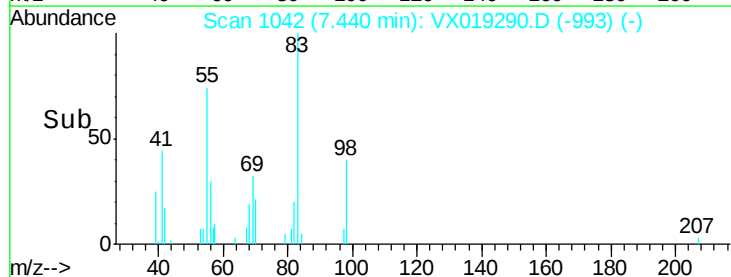
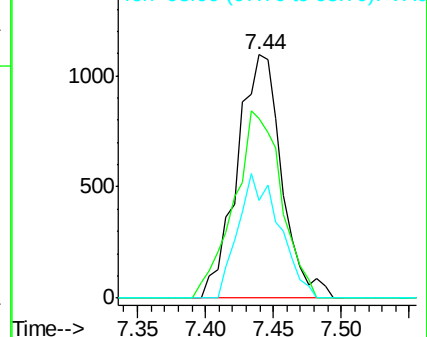
98 39.9 40.5 60.7#

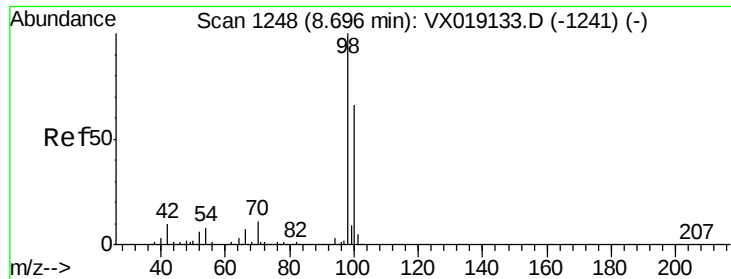


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 52.854 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampleId :

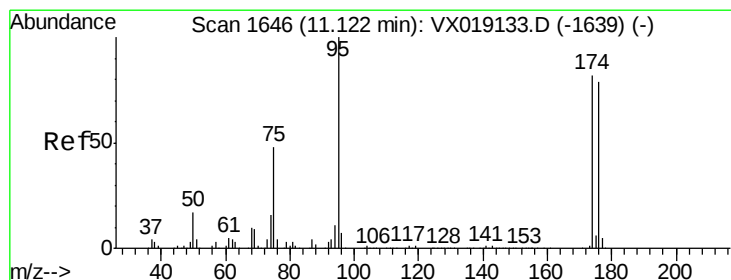
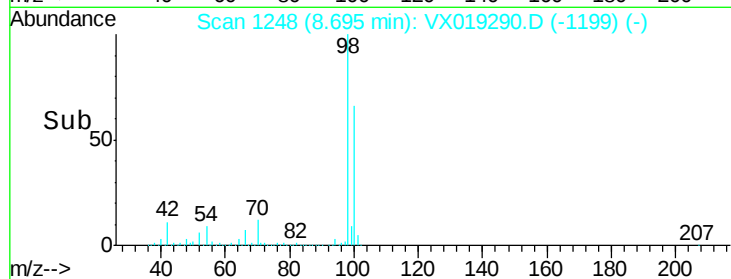
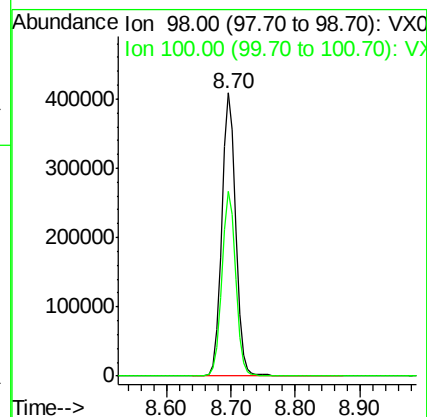
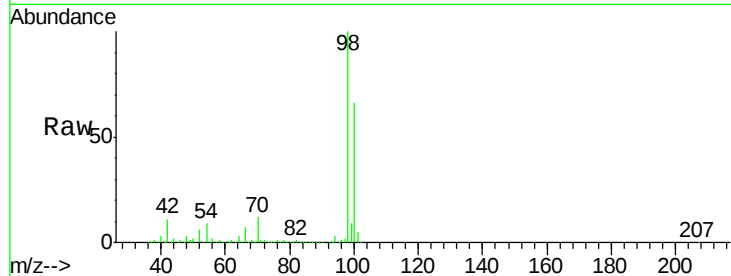
OW-02

Tot Ion: 98 Resp: 627898

Ion Ratio Lower Upper

98 100

100 65.2 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 53.027 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

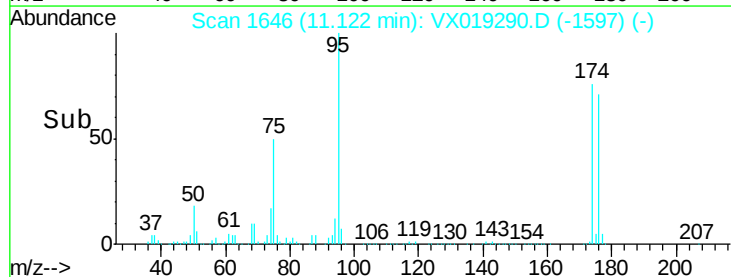
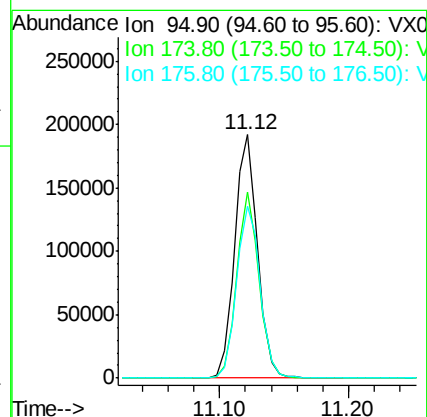
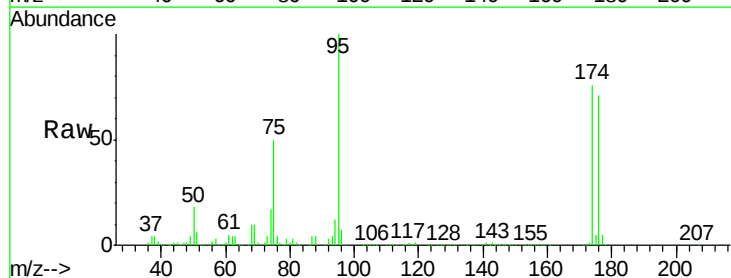
Tgt Ion: 95 Resp: 238566

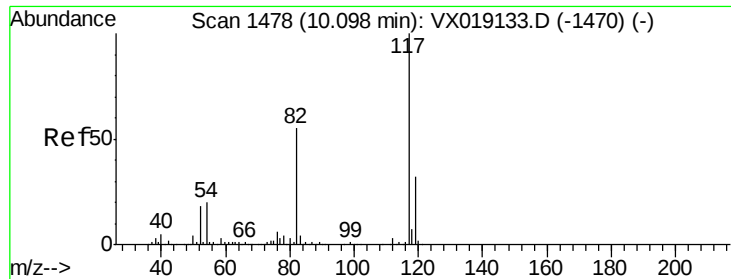
Ion Ratio Lower Upper

95 100

174 74.3 0.0 156.0

176 72.8 0.0 149.8

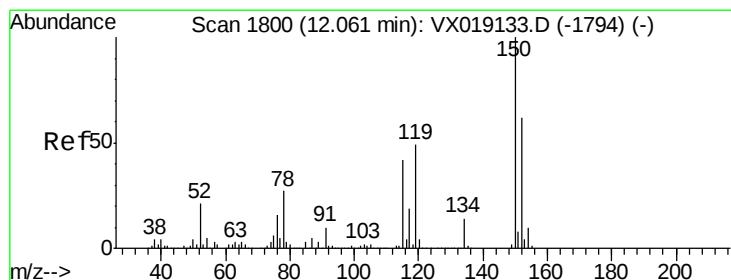
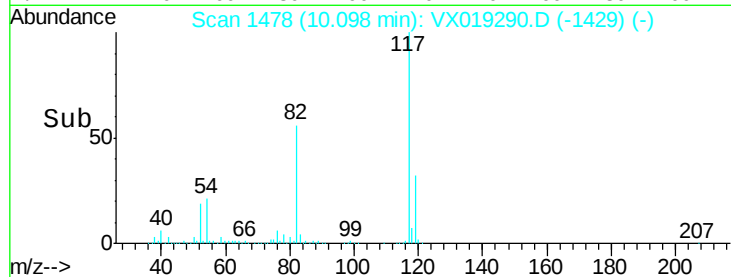
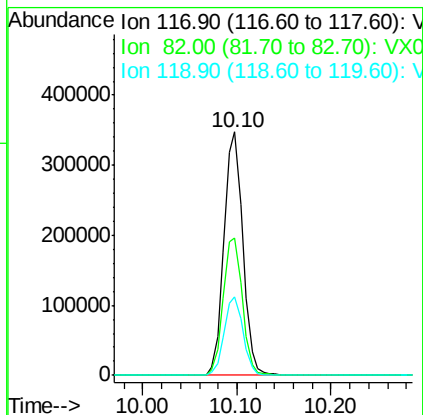
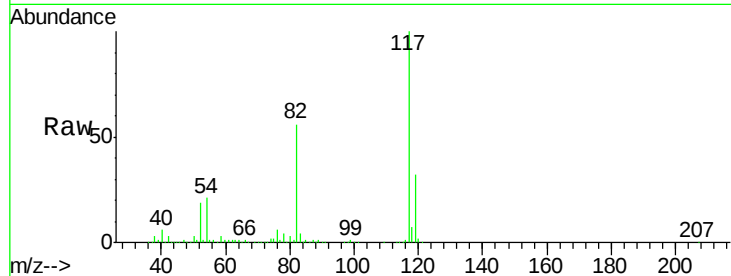




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019290.D
Acq: 04 Nov 2020 23:25

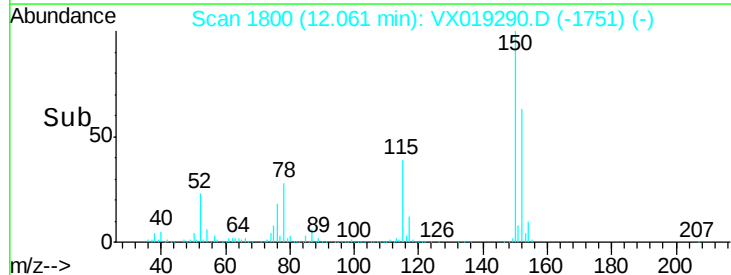
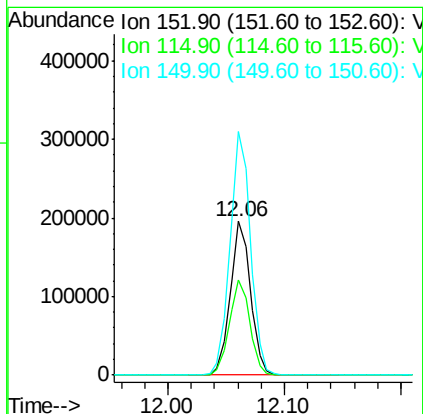
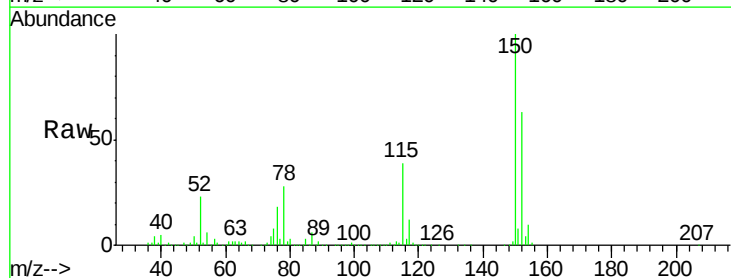
Instrument :
MSVOA_X
ClientSampleId :
OW-02

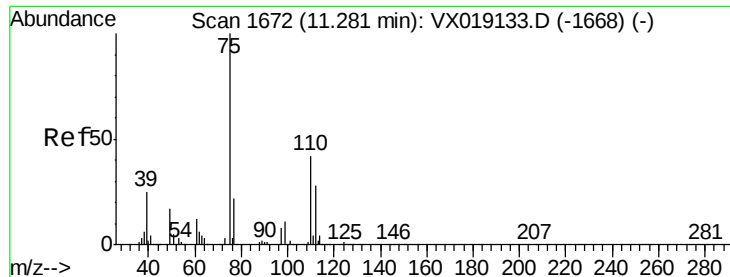
Tot Ion:117 Resp: 482558
Ion Ratio Lower Upper
117 100
82 56.4 43.6 65.4
119 32.2 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019290.D
Acq: 04 Nov 2020 23:25

Tgt Ion:152 Resp: 237238
Ion Ratio Lower Upper
152 100
115 62.6 41.9 125.7
150 160.7 0.0 347.8





#76

1,2,3-Trichloropropane

Concen: 25.120 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampled :

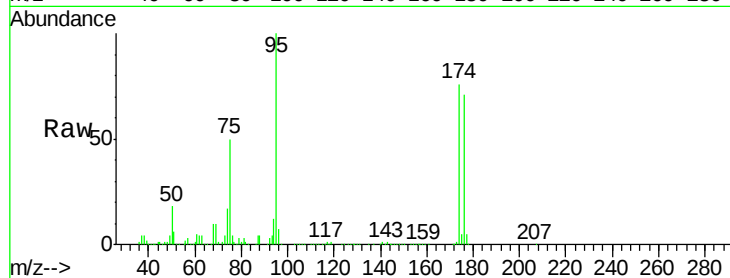
OW-02

Tot Ion: 75 Resp: 123049

Ion Ratio Lower Upper

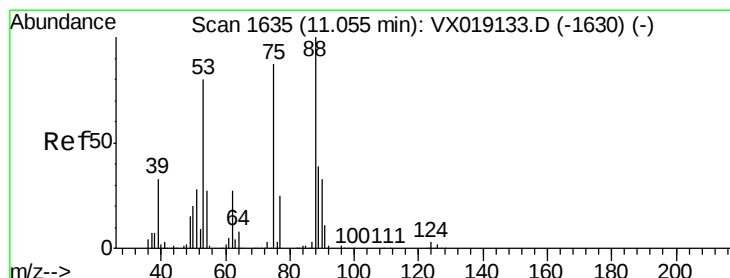
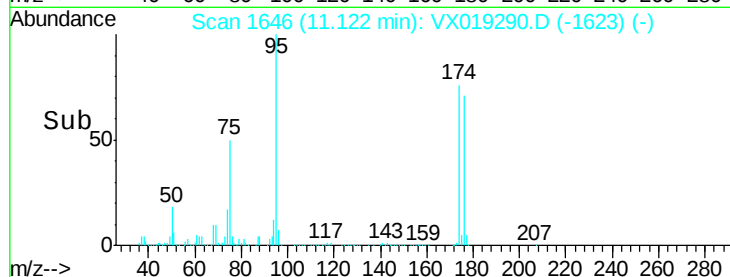
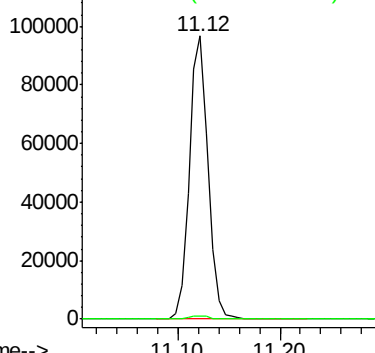
75 100

77 1.2 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.141 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

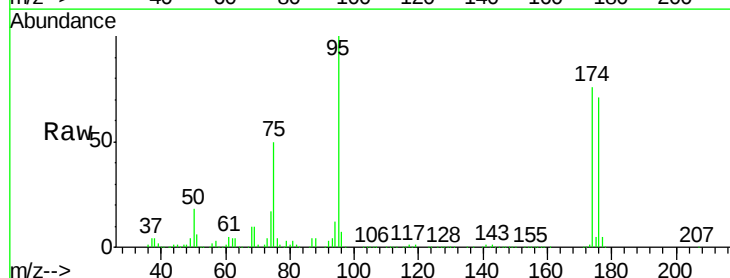
Tgt Ion: 75 Resp: 123049

Ion Ratio Lower Upper

75 100

53 0.1 73.3 109.9#

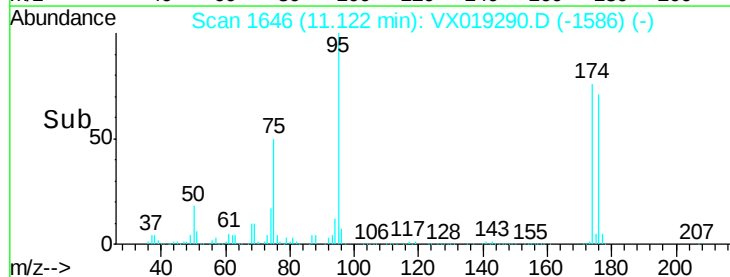
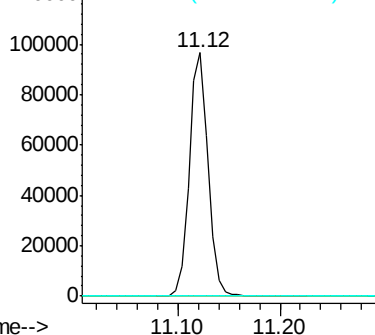
89 0.0 38.2 57.2#

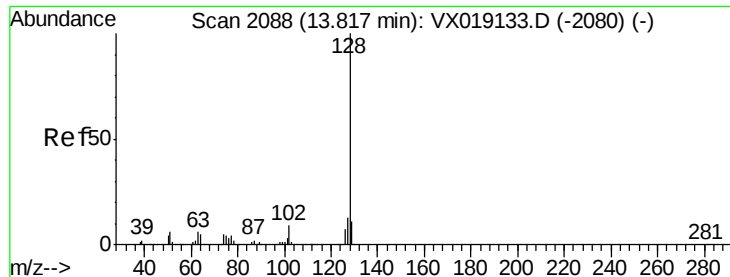


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.494 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019290.D

Acq: 04 Nov 2020 23:25

Instrument :

MSVOA_X

ClientSampleId :

OW-02

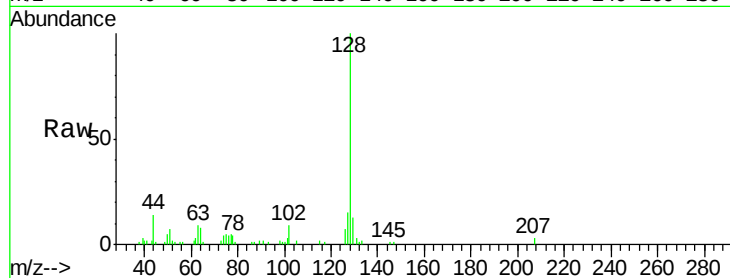
Tot Ion:128 Resp: 8718

Ion Ratio Lower Upper

128 100

127 15.9 10.3 15.5#

129 17.1 8.6 13.0#



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

