

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019289.D
 Acq On : 04 Nov 2020 23:03
 Operator : JC/MD
 Sample : L4607-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-01

Quant Time: Nov 05 02:29:06 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	5.64	168	281866	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	493244	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	470933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	234731	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	198388	54.58	ug/l	0.00
Spiked Amount						
			Recovery	=	109.16%	
35) Dibromofluoromethane	5.46	113	158480	51.15	ug/l	0.00
Spiked Amount						
			Recovery	=	102.30%	
50) Toluene-d8	8.70	98	616439	52.78	ug/l	0.00
Spiked Amount						
			Recovery	=	105.56%	
62) 4-Bromofluorobenzene	11.12	95	233111	52.70	ug/l	0.00
Spiked Amount						
			Recovery	=	105.40%	

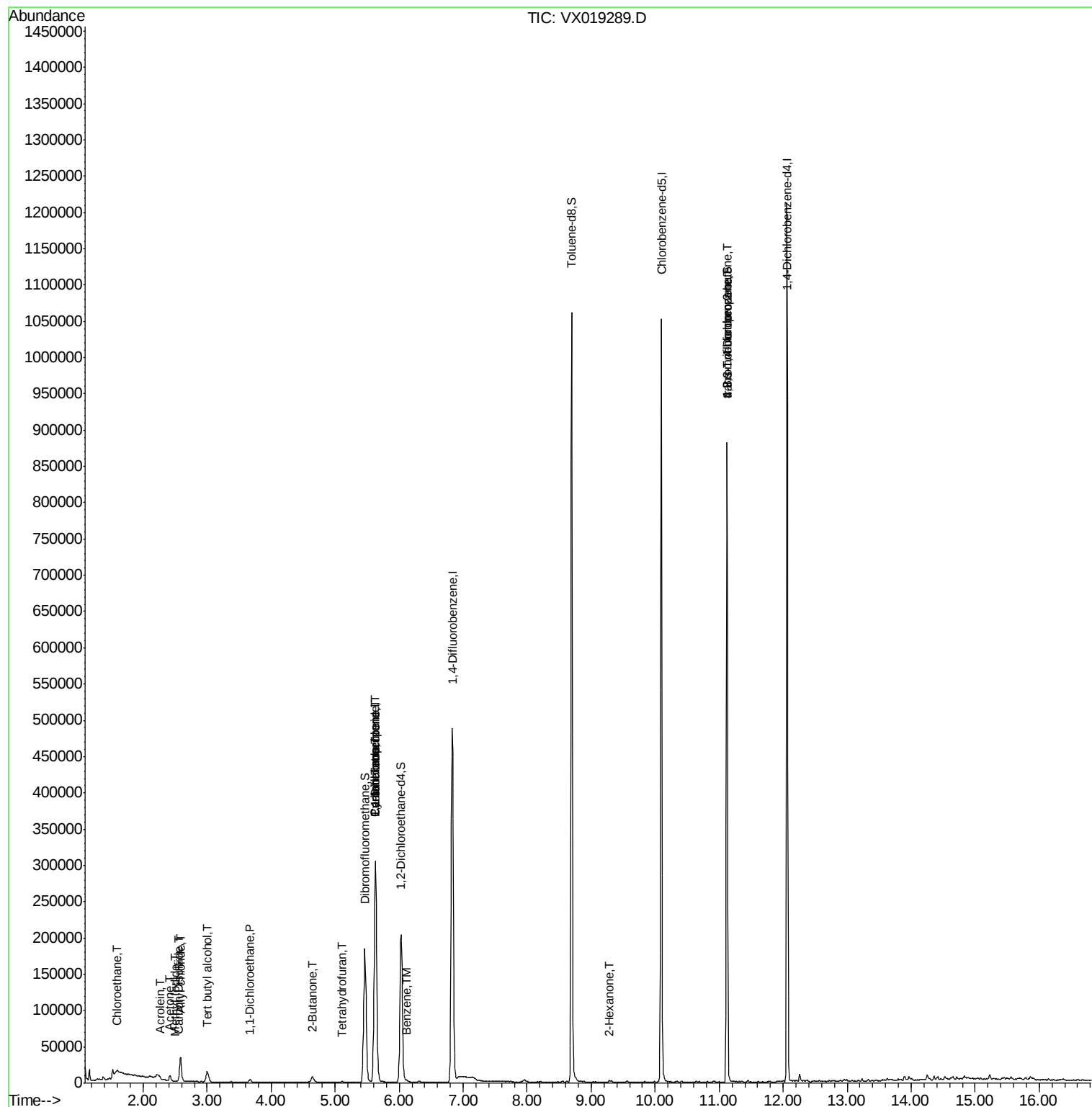
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.60	64	26953	13.866	ug/l #	49
10) Methyl Iodide	2.50	142	22	6.385	ug/l #	39
11) Tert butyl alcohol	3.01	59	16064	22.374	ug/l #	94
13) Acrolein	2.28	56	83	5.901	ug/l #	16
14) Allyl chloride	2.59	41	3653	0.883	ug/l #	59
16) Acetone	2.42	43	7775	6.200	ug/l	99
17) Carbon Disulfide	2.55	76	2074	1.022	ug/l	100
24) 1,1-Dichloroethane	3.67	63	4362	0.847	ug/l	96
25) 2-Butanone	4.64	43	1818	0.920	ug/l	89
29) Tetrahydrofuran	5.10	42	824	0.662	ug/l #	47
31) Cyclohexane	5.63	56	6520	1.419	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22990	5.047	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29816	6.422	ug/l #	16
40) Benzene	6.12	78	2945	0.228	ug/l #	83
59) 2-Hexanone	9.28	43	1330	0.429	ug/l	63
76) 1,2,3-Trichloropropane	11.12	75	120388	24.839	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	120388	65.401	ug/l #	12

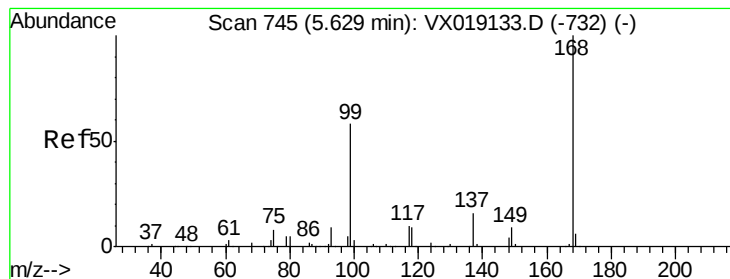
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampleId :

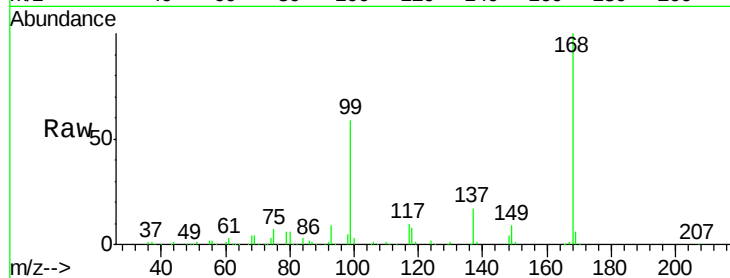
OW-01

Tot Ion:168 Resp: 281866

Ion Ratio Lower Upper

168 100

99 58.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

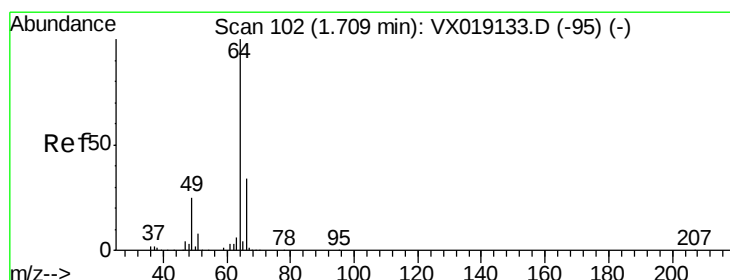
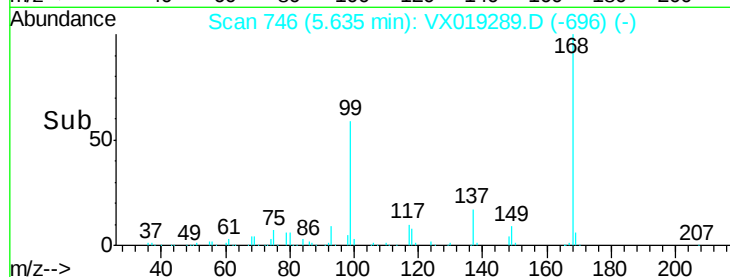
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 13.866 ug/l

RT: 1.60 min Scan# 84

Delta R.T. -0.11 min

Lab File: VX019289.D

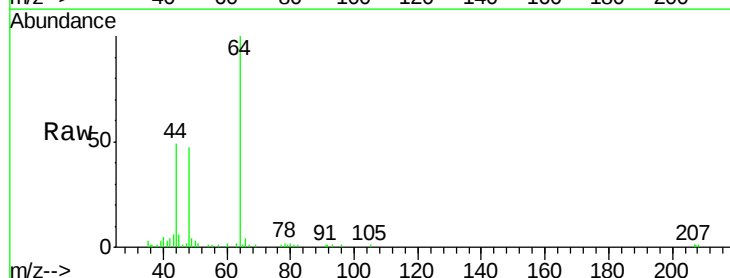
Acq: 04 Nov 2020 23:03

Tgt Ion: 64 Resp: 26953

Ion Ratio Lower Upper

64 100

66 4.5 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.60

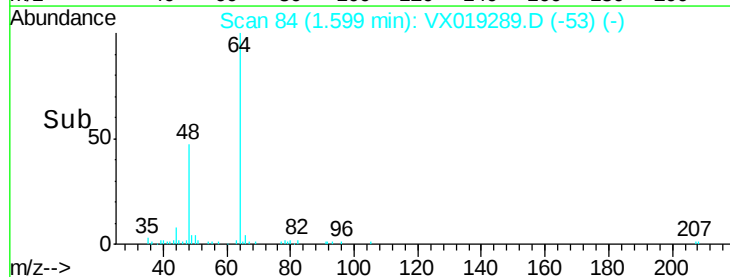
6000

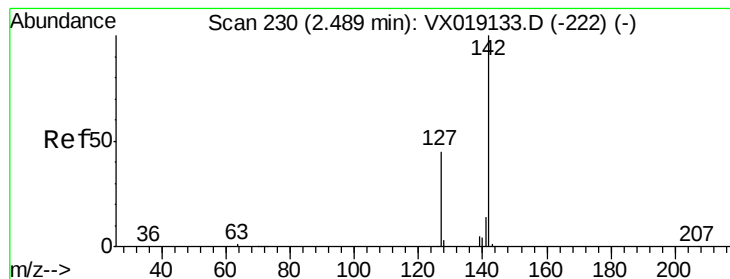
4000

2000

0

Time-->





#10

Methvl Iodide

Concen: 6.385 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampleId :

OW-01

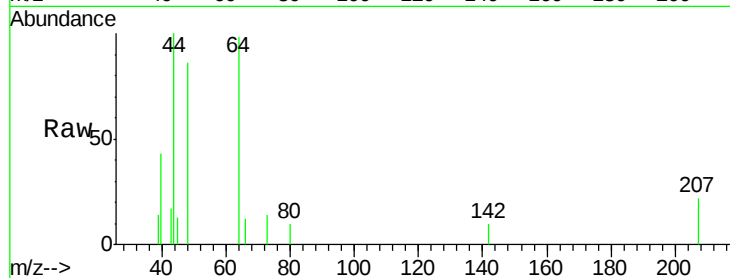
Tot Ion:142 Resp: 22

Ion Ratio Lower Upper

142 100

127 0.0 36.1 54.1#

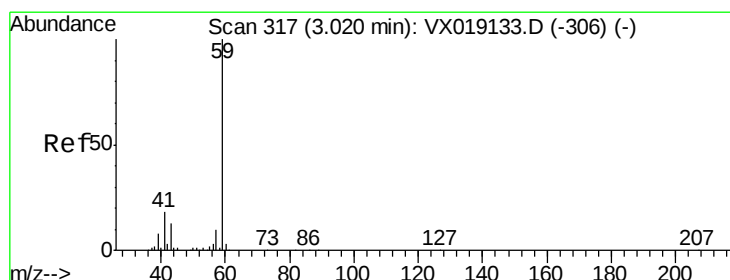
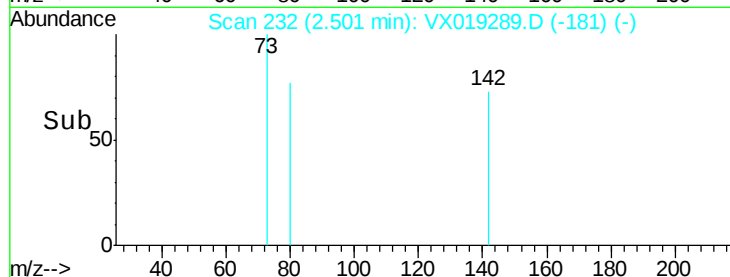
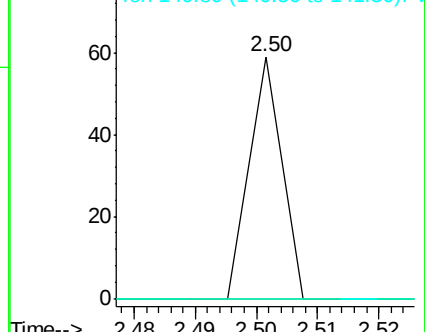
141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 22.374 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX019289.D

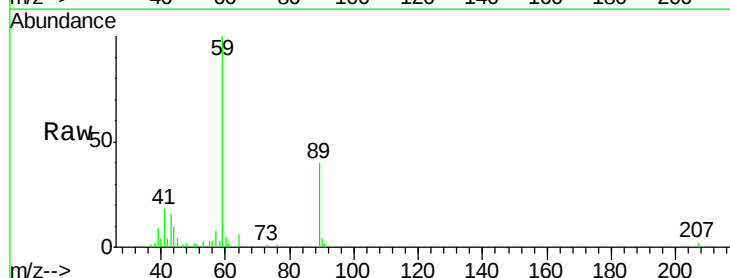
Acq: 04 Nov 2020 23:03

Tgt Ion: 59 Resp: 16064

Ion Ratio Lower Upper

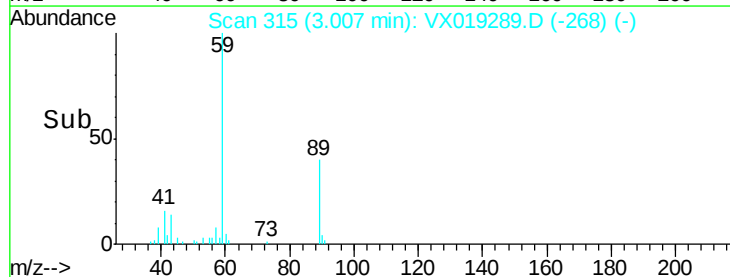
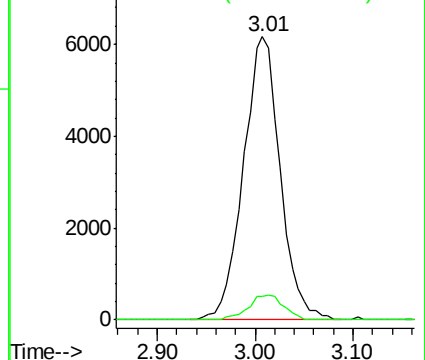
59 100

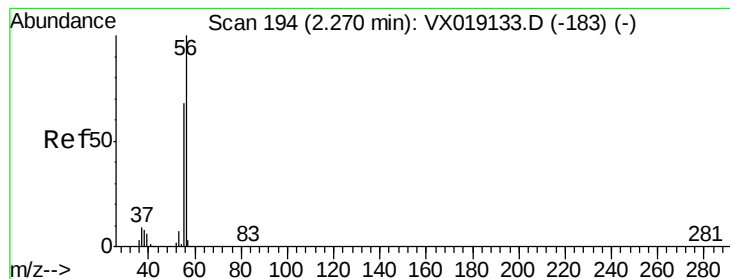
57 8.4 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 5.901 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampled :

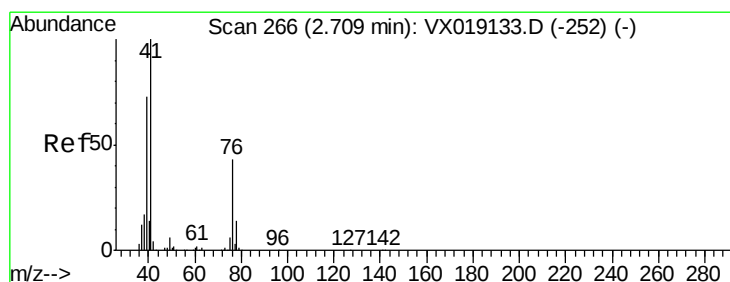
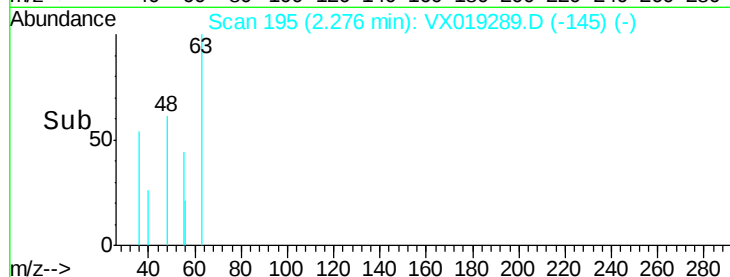
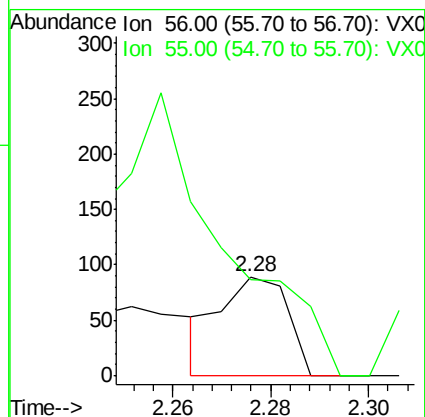
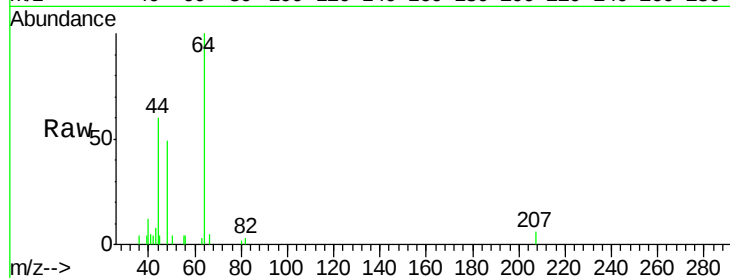
OW-01

Tot Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#14

Allyl chloride

Concen: 0.883 ug/l

RT: 2.59 min Scan# 246

Delta R.T. -0.12 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

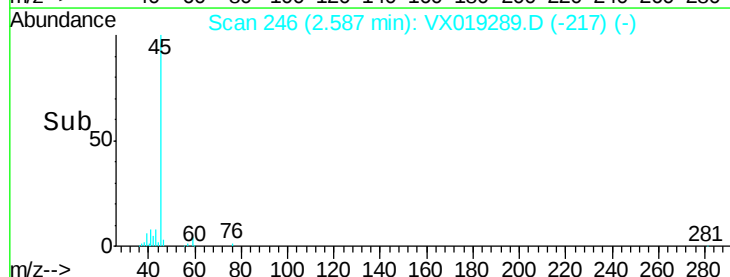
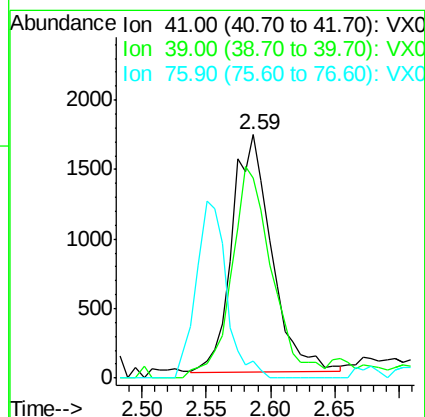
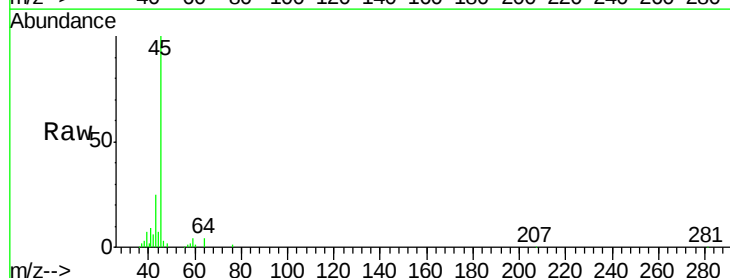
Tgt Ion: 41 Resp: 3653

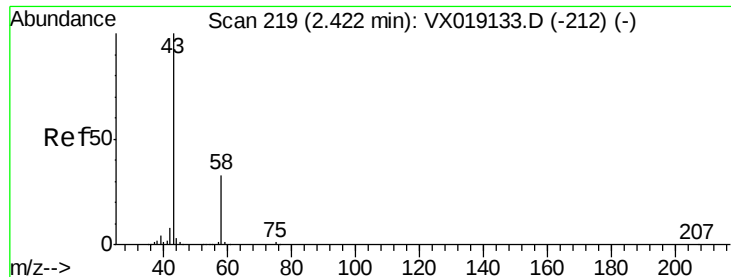
Ion Ratio Lower Upper

41 100

39 91.0 55.2 82.8#

76 0.0 31.5 47.3#





#16

Acetone

Concen: 6.200 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampled :

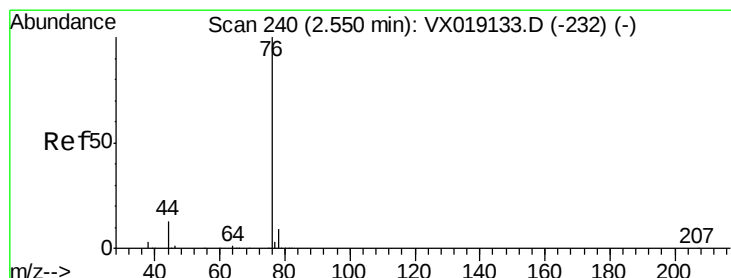
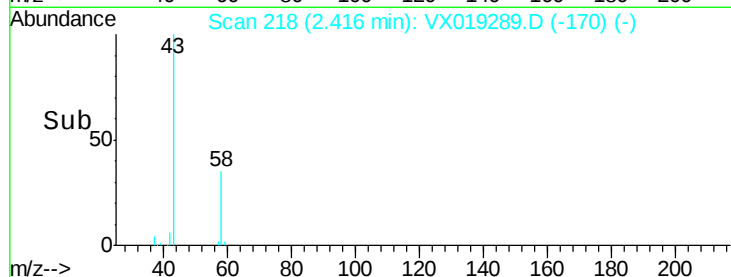
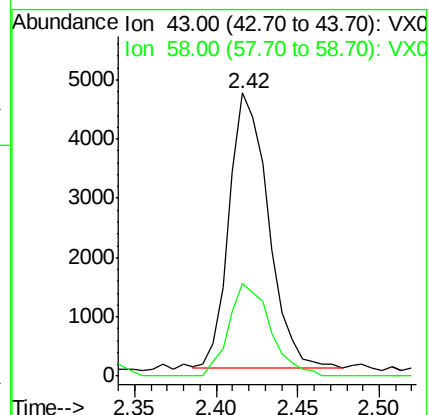
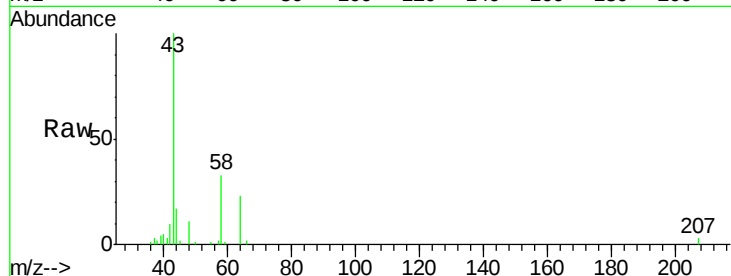
OW-01

Tot Ion: 43 Resp: 7775

Ion Ratio Lower Upper

43 100

58 33.6 26.3 39.5



#17

Carbon Disulfide

Concen: 1.022 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019289.D

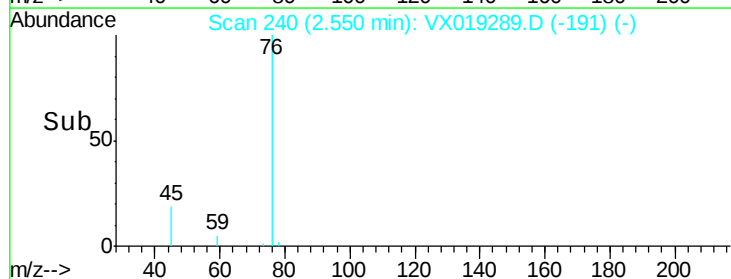
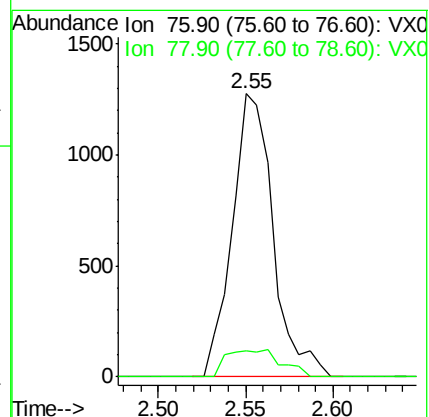
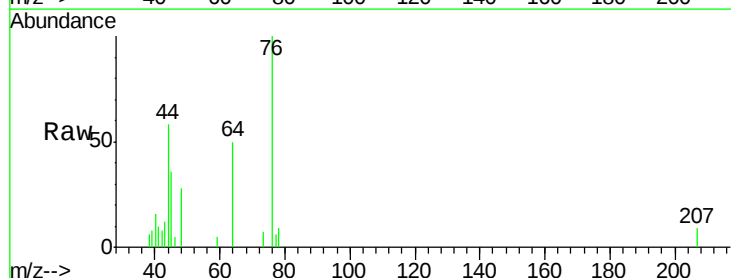
Acq: 04 Nov 2020 23:03

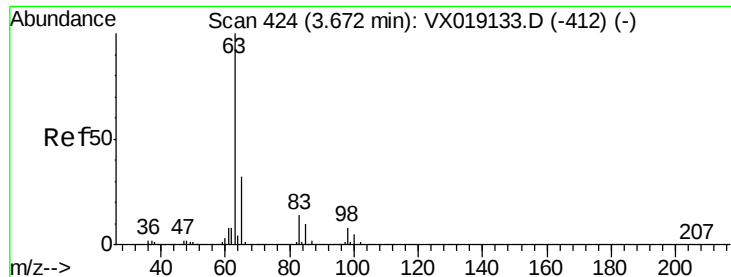
Tgt Ion: 76 Resp: 2074

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





#24

1,1-Dichloroethane

Concen: 0.847 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampled :

OW-01

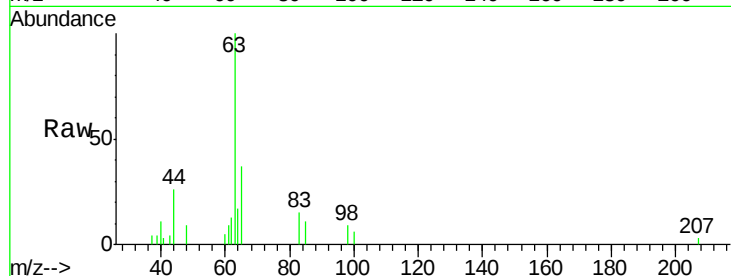
Tot Ion: 63 Resp: 4362

Ion Ratio Lower Upper

63 100

98 9.3 3.8 11.4

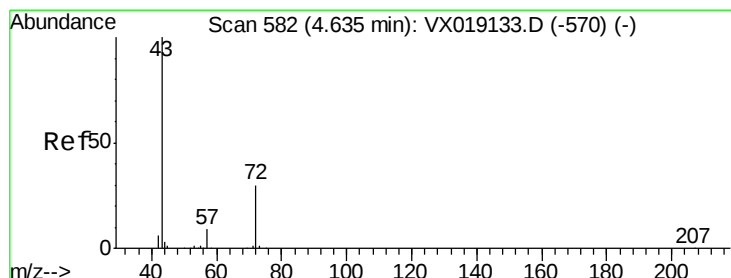
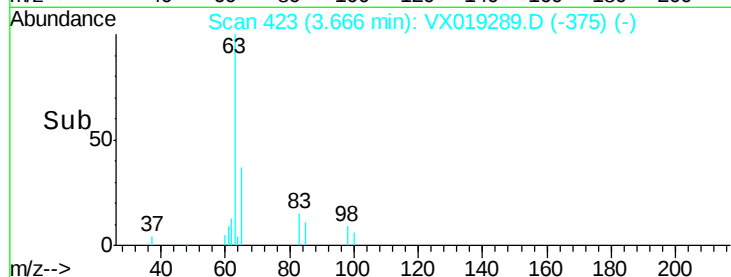
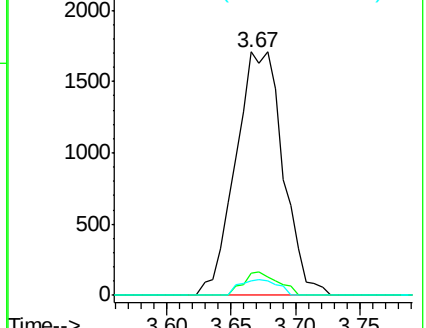
100 6.0 2.4 7.2



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: 0.920 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX019289.D

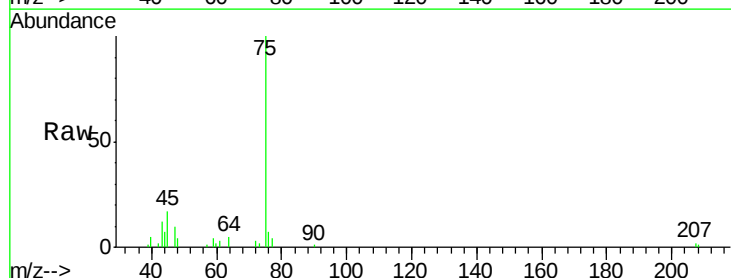
Acq: 04 Nov 2020 23:03

Tgt Ion: 43 Resp: 1818

Ion Ratio Lower Upper

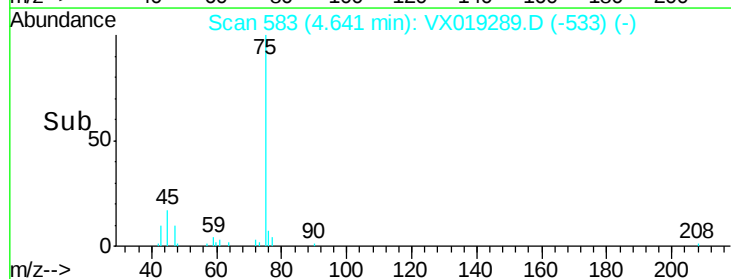
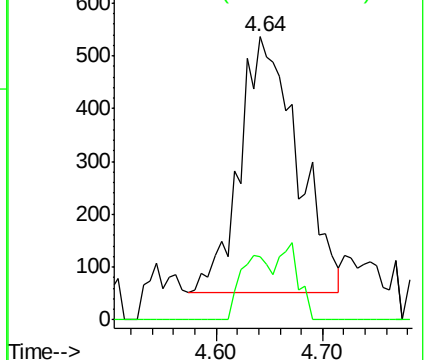
43 100

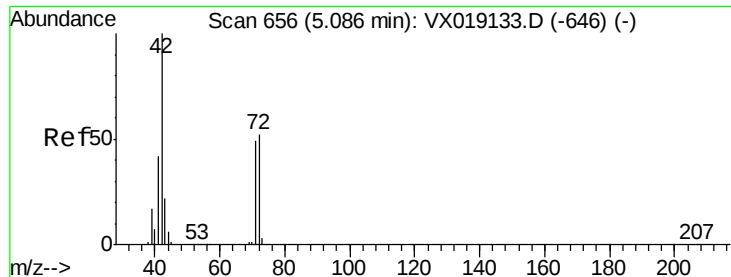
72 24.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

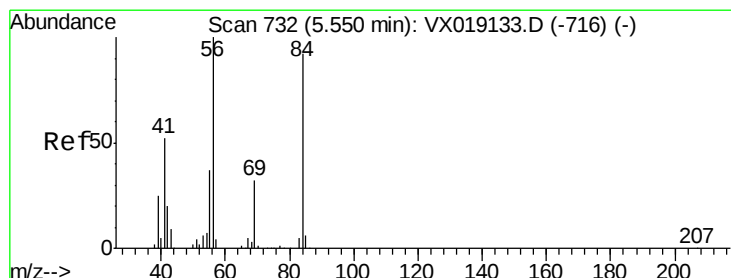
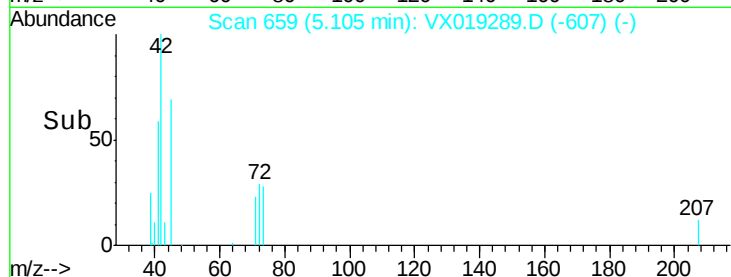
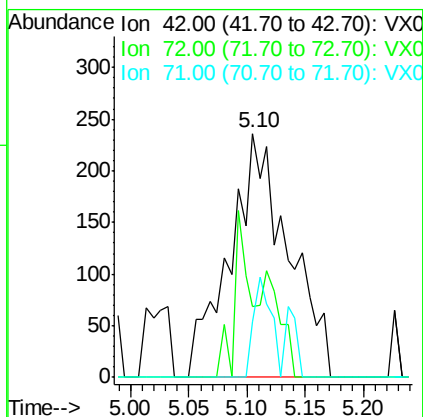
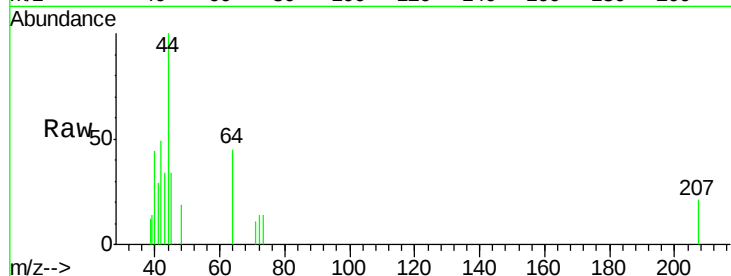




#29
Tetrahydrofuran
Concen: 0.662 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019289.D
Acq: 04 Nov 2020 23:03

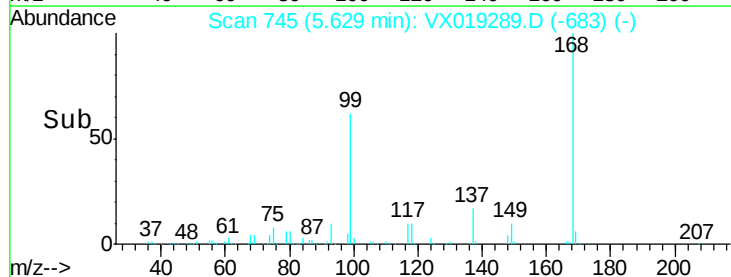
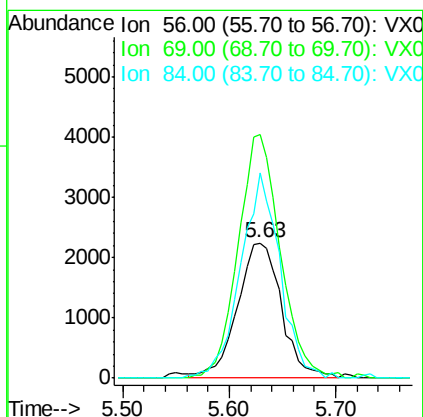
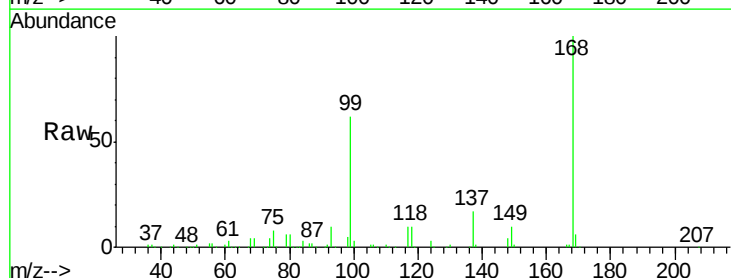
Instrument :
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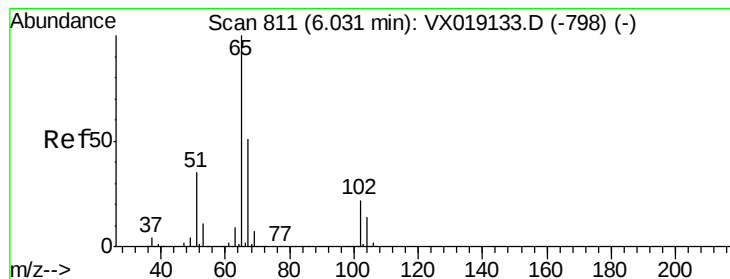
Tot Ion: 42 Resp: 824
Ion Ratio Lower Upper
42 100
72 16.7 42.6 63.8#
71 12.4 39.7 59.5#



#31
Cyclohexane
Concen: 1.419 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019289.D
Acq: 04 Nov 2020 23:03

Tgt Ion: 56 Resp: 6520
Ion Ratio Lower Upper
56 100
69 179.9 25.9 38.9#
84 151.8 73.4 110.2#





#33

1,2-Dichloroethane-d4

Concen: 54.577 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampleId :

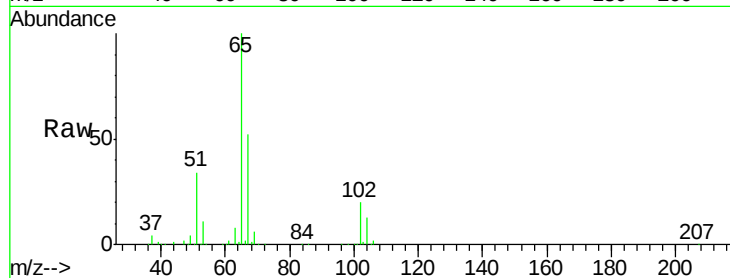
OW-01

Tot Ion: 65 Resp: 198388

Ion Ratio Lower Upper

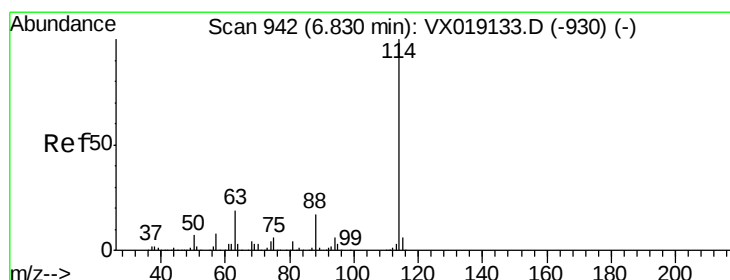
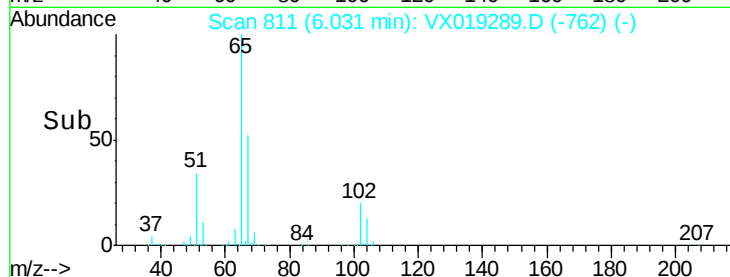
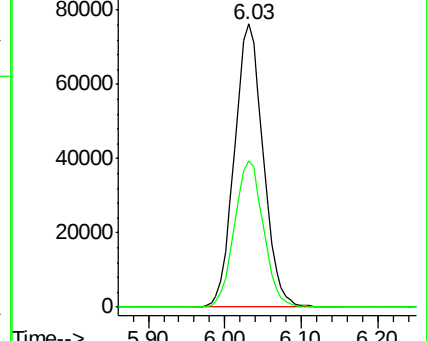
65 100

67 52.1 0.0 103.0



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: VX019289.D

Acq: 04 Nov 2020 23:03

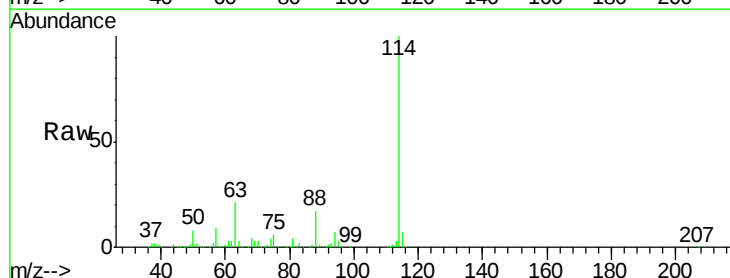
Tgt Ion: 114 Resp: 493244

Ion Ratio Lower Upper

114 100

63 21.2 0.0 38.8

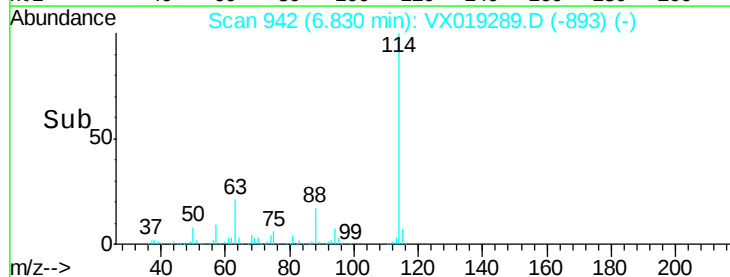
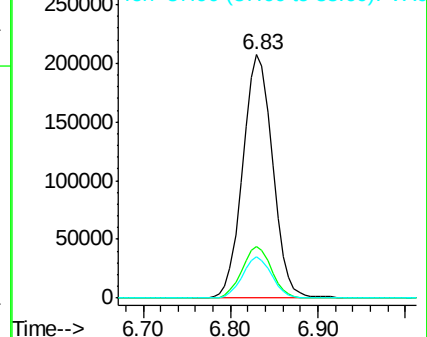
88 16.8 0.0 34.2

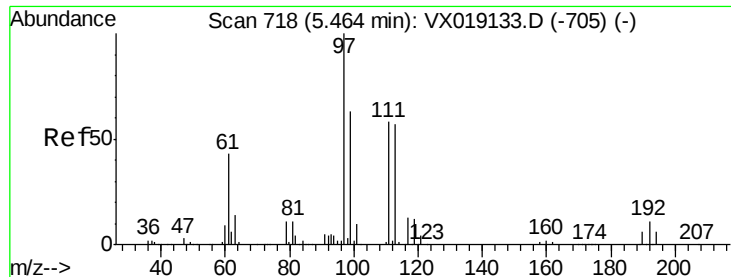


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

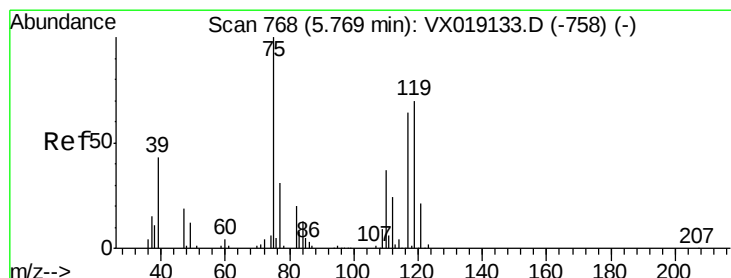
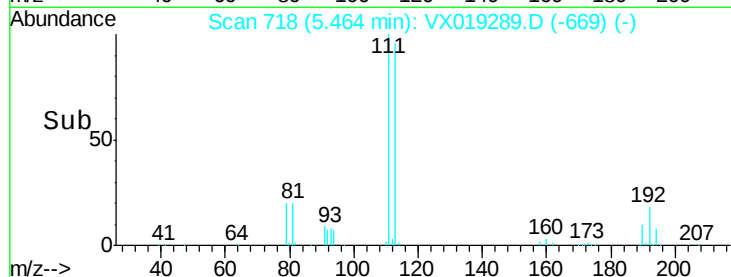
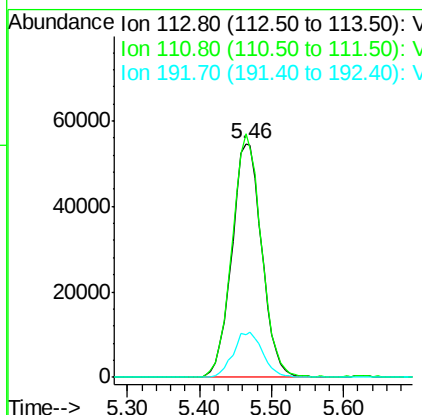
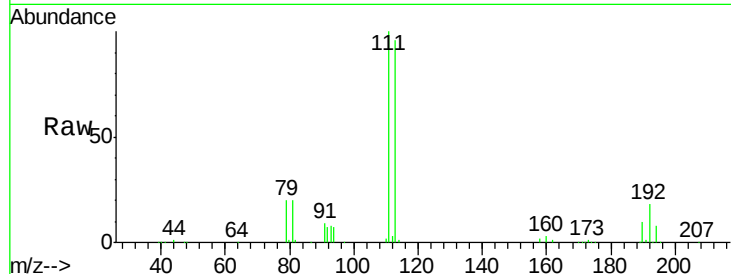




#35
 Dibromofluoromethane
 Concen: 51.152 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019289.D
 Acq: 04 Nov 2020 23:03

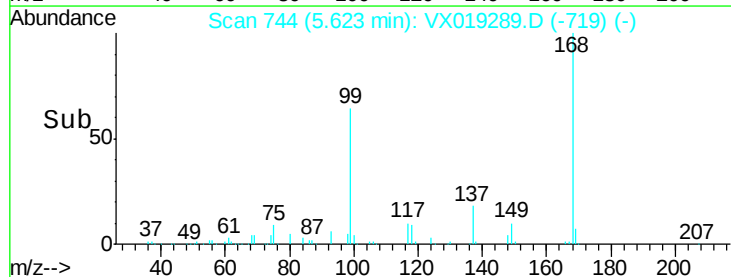
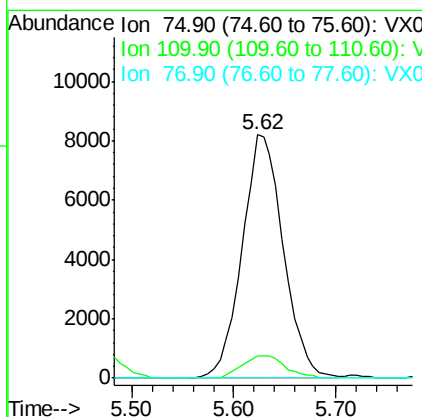
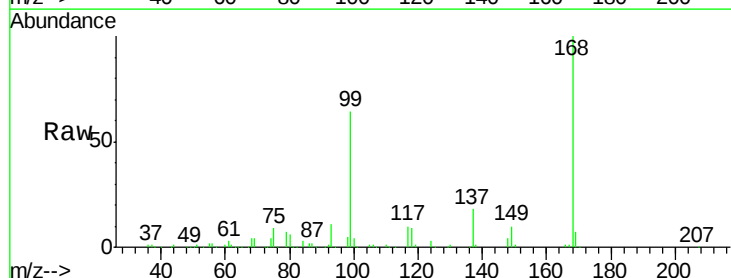
Instrument :
 MSVOA_X
 ClientSampleId :
 OW-01

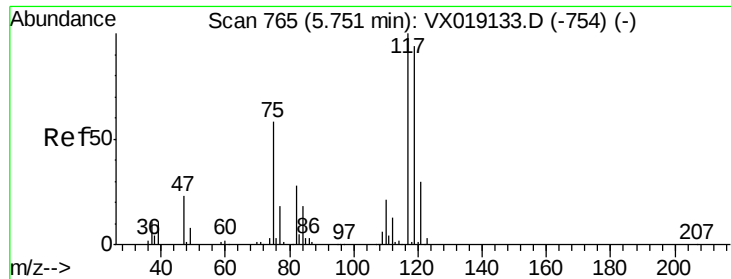
Tot Ion:113 Resp: 158480
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.3 123.5
 192 19.0 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.047 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX019289.D
 Acq: 04 Nov 2020 23:03

Tgt Ion: 75 Resp: 22990
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.3 54.9#
 77 0.0 24.9 37.3#

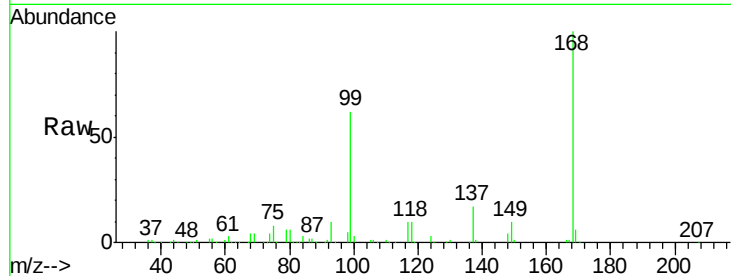




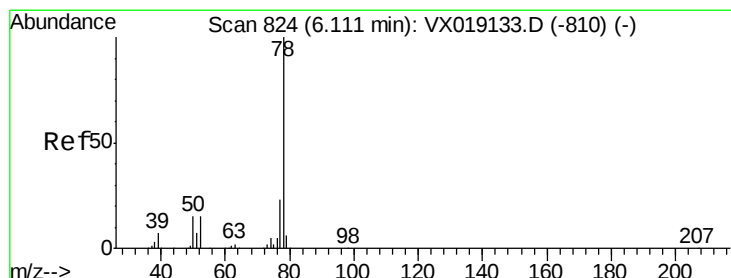
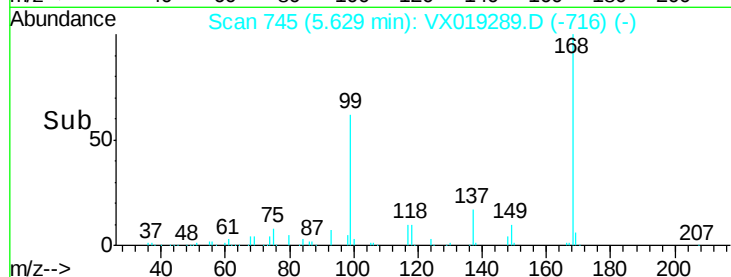
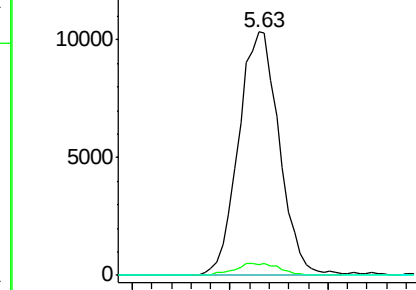
#38
Carbon Tetrachloride
Concen: 6.422 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019289.D
Acq: 04 Nov 2020 23:03

Instrument :
MSVOA_X
ClientSampled :
OW-01

Tot Ion:117 Resp: 29816
Ion Ratio Lower Upper
117 100
119 4.5 75.0 112.6#
121 0.0 23.9 35.9#

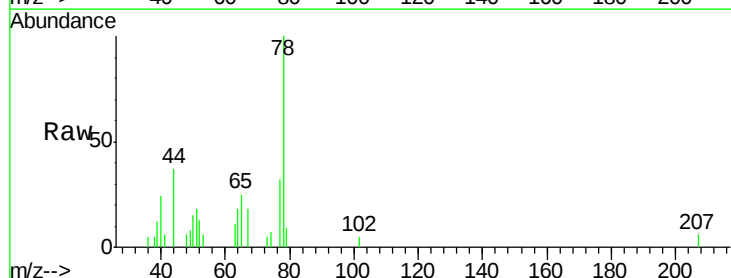


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

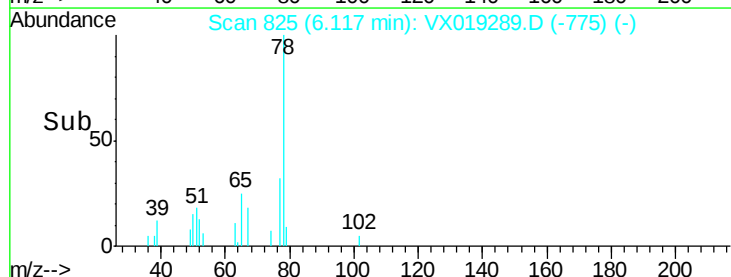
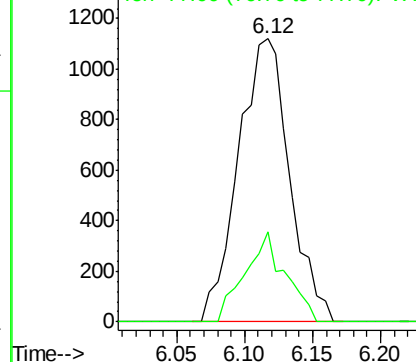


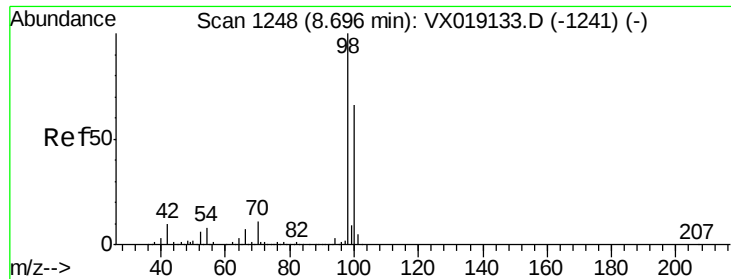
#40
Benzene
Concen: 0.228 ug/l
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX019289.D
Acq: 04 Nov 2020 23:03

Tgt Ion: 78 Resp: 2945
Ion Ratio Lower Upper
78 100
77 31.9 18.7 28.1#



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 52.780 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampleId :

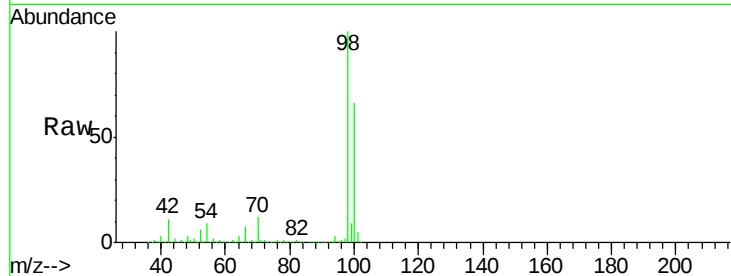
OW-01

Tot Ion: 98 Resp: 616439

Ion Ratio Lower Upper

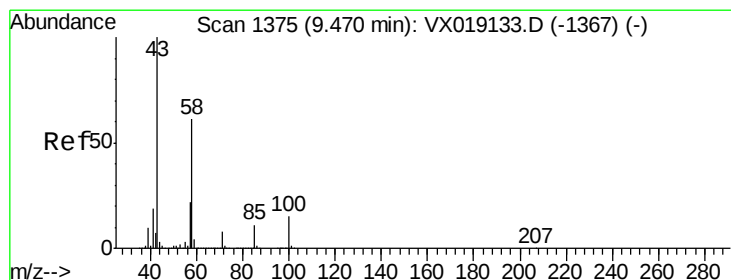
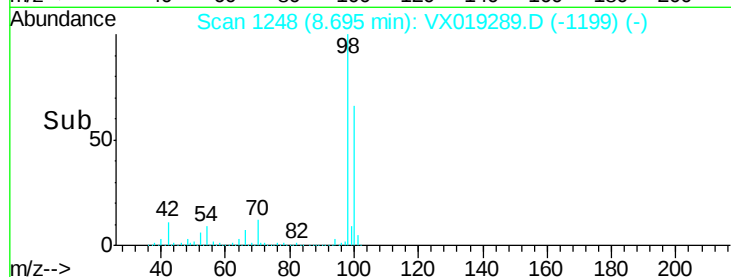
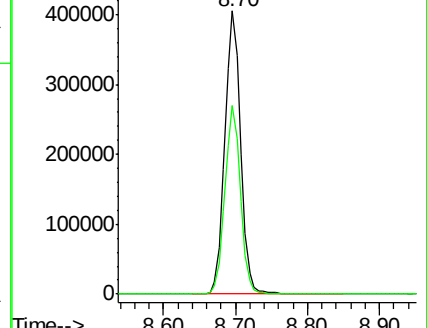
98 100

100 65.9 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#59

2-Hexanone

Concen: 0.429 ug/l

RT: 9.28 min Scan# 1344

Delta R.T. -0.19 min

Lab File: VX019289.D

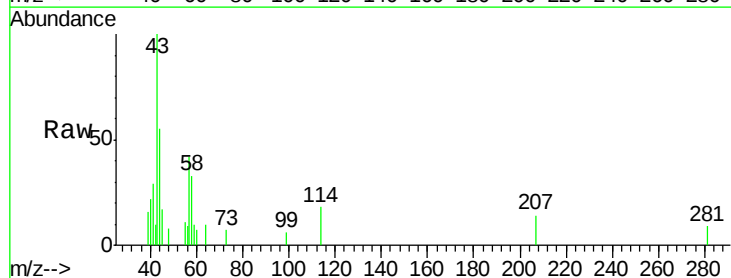
Acq: 04 Nov 2020 23:03

Tgt Ion: 43 Resp: 1330

Ion Ratio Lower Upper

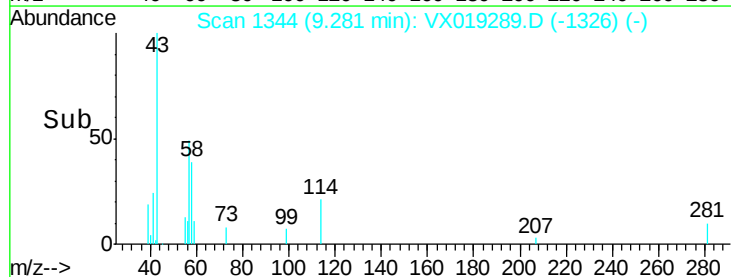
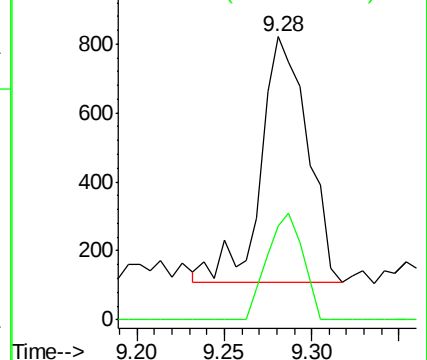
43 100

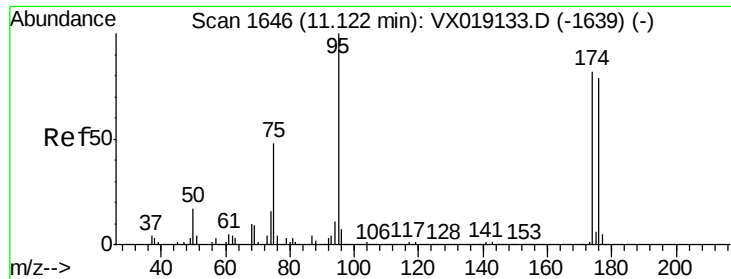
58 32.9 30.5 91.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

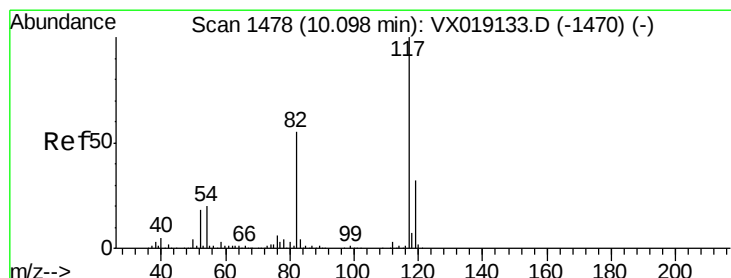
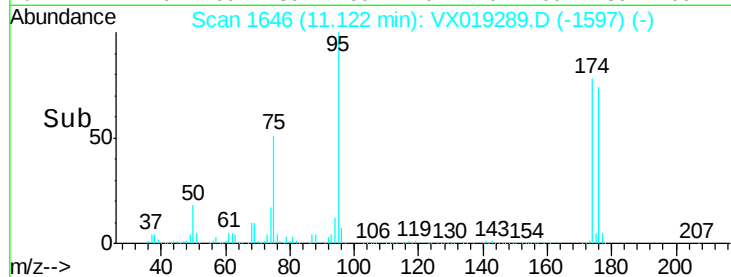
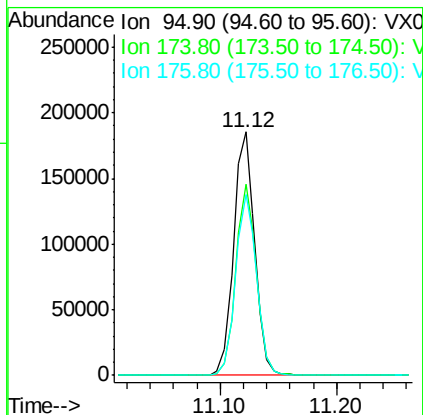
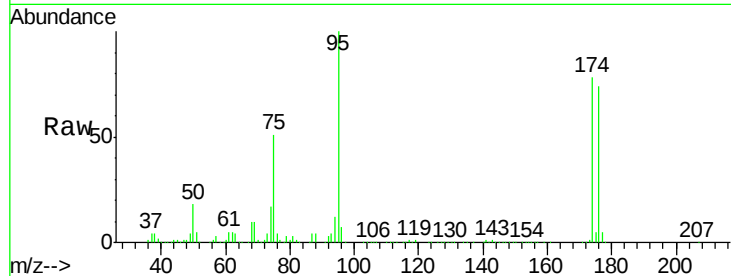




#62
4-Bromofluorobenzene
Concen: 52.704 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019289.D
Acq: 04 Nov 2020 23:03

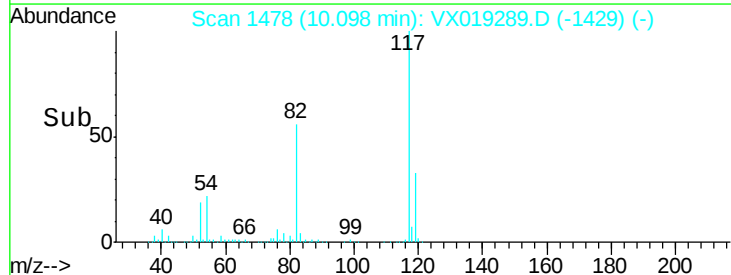
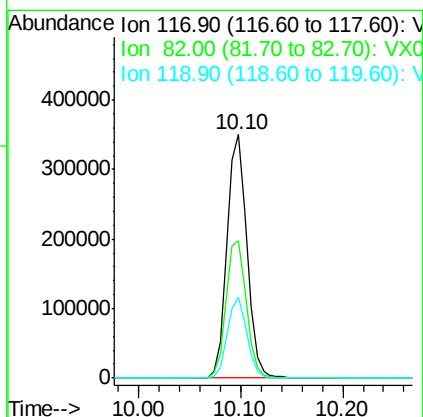
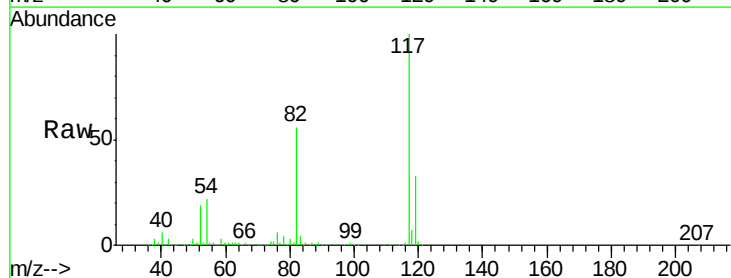
Instrument :
MSVOA_X
ClientSampled :
OW-01

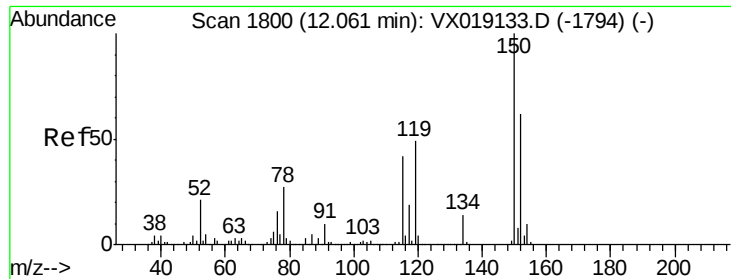
Tot Ion: 95 Resp: 233111
Ion Ratio Lower Upper
95 100
174 76.5 0.0 156.0
176 74.3 0.0 149.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019289.D
Acq: 04 Nov 2020 23:03

Tgt Ion: 117 Resp: 470933
Ion Ratio Lower Upper
117 100
82 56.5 43.6 65.4
119 33.2 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: VX019289.D

Acq: 04 Nov 2020 23:03

Instrument :

MSVOA_X

ClientSampleId :

OW-01

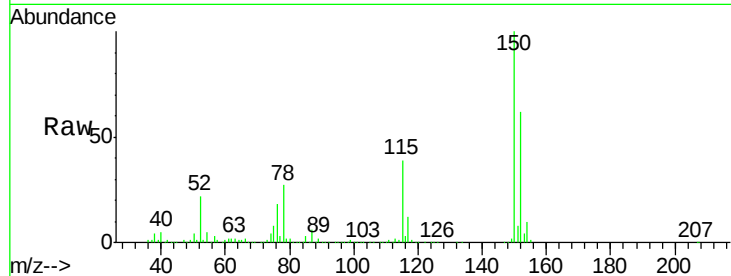
Tot Ion:152 Resp: 234731

Ion Ratio Lower Upper

152 100

115 60.9 41.9 125.7

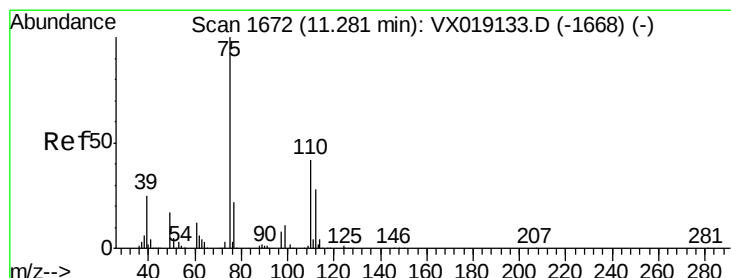
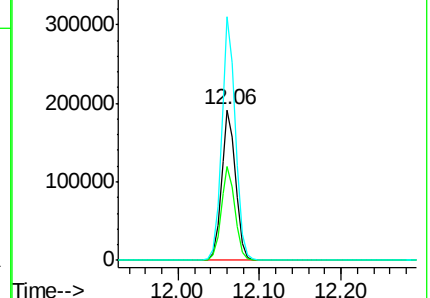
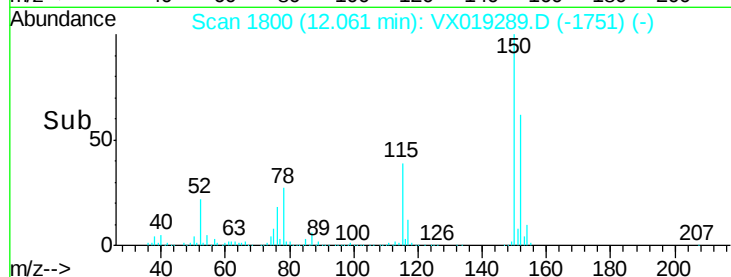
150 157.2 0.0 347.8



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: 24.839 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019289.D

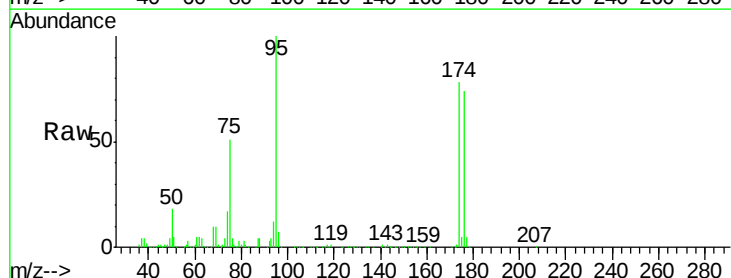
Acq: 04 Nov 2020 23:03

Tgt Ion: 75 Resp: 120388

Ion Ratio Lower Upper

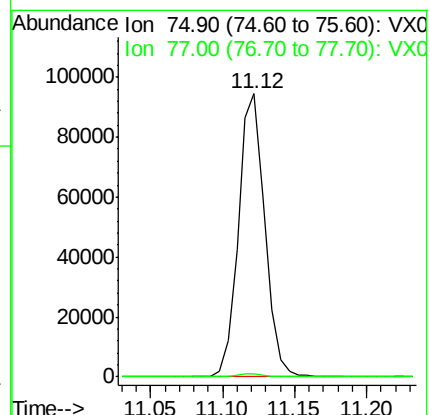
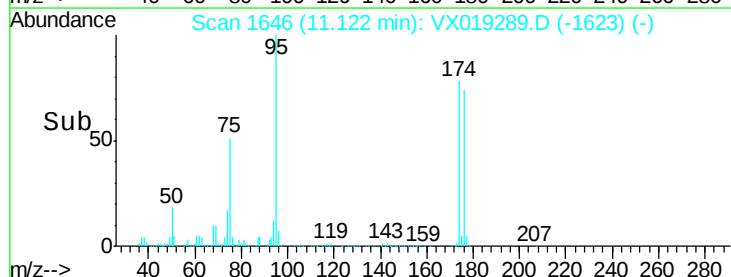
75 100

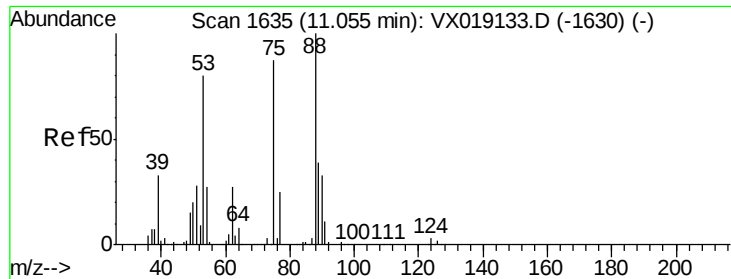
77 1.2 20.3 60.9#



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: 65.401 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019289.D
 Acq: 04 Nov 2020 23:03

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-01

Tot Ion: 75 Resp: 120388
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.3 109.9#
 89 0.0 38.2 57.2#

