

Data File : VX019603.D
Acq On : 24 Nov 2020 14:22
Operator : JC/MD
Sample : L4840-05 50X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
16858

Quant Time: Nov 25 04:02:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	307500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	503915	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	440833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	186269	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	190019	47.66	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.32%
35) Dibromofluoromethane	5.46	113	148269	46.87	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.74%
50) Toluene-d8	8.70	98	599356	48.76	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.52%
62) 4-Bromofluorobenzene	11.12	95	202580	45.81	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.62%

Target Compounds

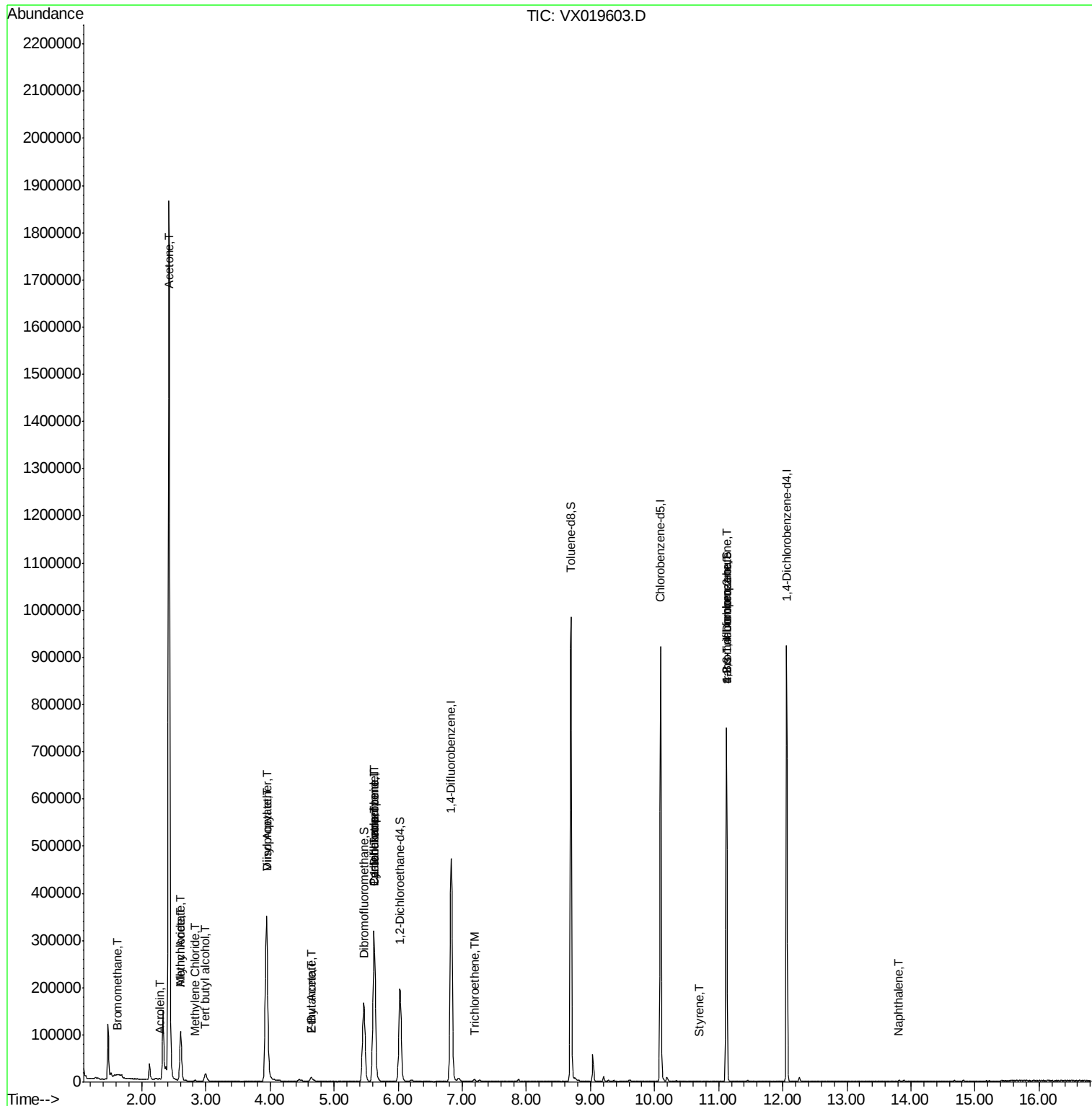
					Qvalue	
5) Bromomethane	1.62	94	289	0.207	ug/l #	68
6) Chloroethane	1.70	64	306	Below	Cal	91
11) Tert butyl alcohol	3.00	59	11783	15.616	ug/l #	77
13) Acrolein	2.28	56	651	1.284	ug/l #	77
14) Allyl chloride	2.61	41	11011	2.302	ug/l #	59
16) Acetone	2.42	43	1947910	1263.364	ug/l	99
18) Methyl Acetate	2.61	43	33167	9.296	ug/l #	47
20) Methylene Chloride	2.84	84	1034	0.268	ug/l #	85
22) Diisopropyl ether	3.95	45	25173	2.544	ug/l #	1
23) Vinyl Acetate	3.94	43	59523	7.173	ug/l #	68
25) 2-Butanone	4.64	43	13401	5.786	ug/l	93
31) Cyclohexane	5.62	56	5915	1.141	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22827	4.832	ug/l #	50
37) Ethyl Acetate	4.64	43	13362	3.013	ug/l #	65
38) Carbon Tetrachloride	5.62	117	30823	6.741	ug/l #	16
44) Trichloroethene	7.18	130	857	0.225	ug/l	87
70) Styrene	10.70	104	187	1.663	ug/l #	45
76) 1,2,3-Trichloropropane	11.12	75	99123	24.384	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	99123	64.518	ug/l #	12
95) Naphthalene	13.82	128	1761	2.301	ug/l #	91

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

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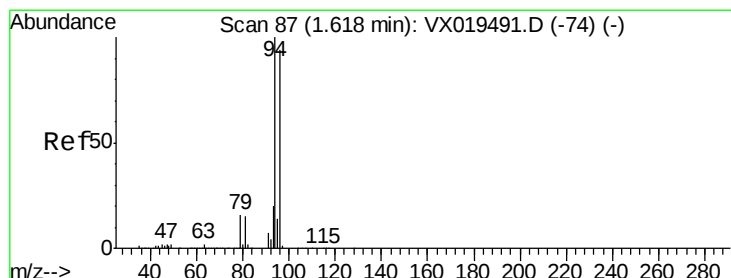
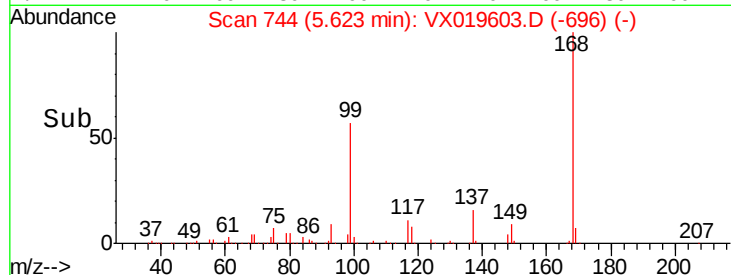
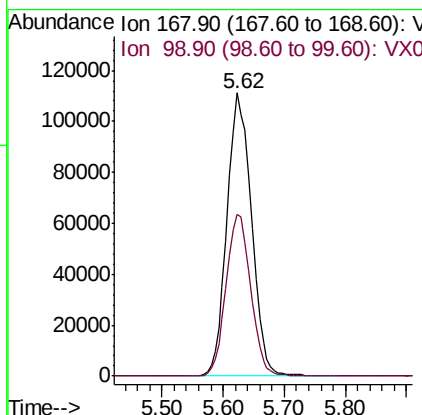
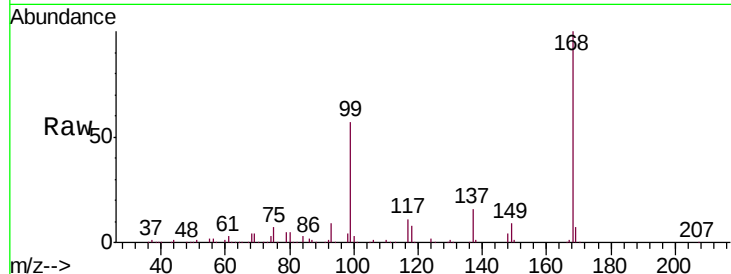




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.01 min
Lab File: VX019603.D
Acq: 24 Nov 2020 14:22

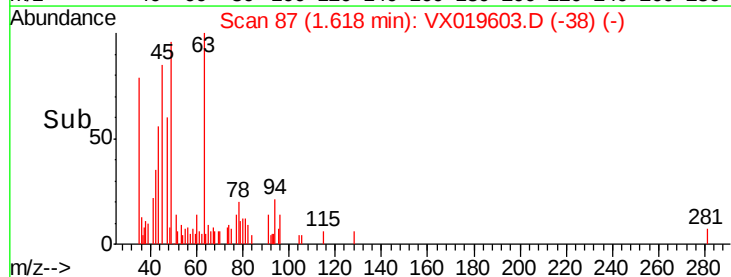
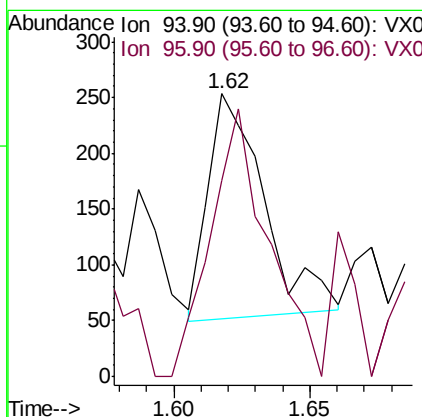
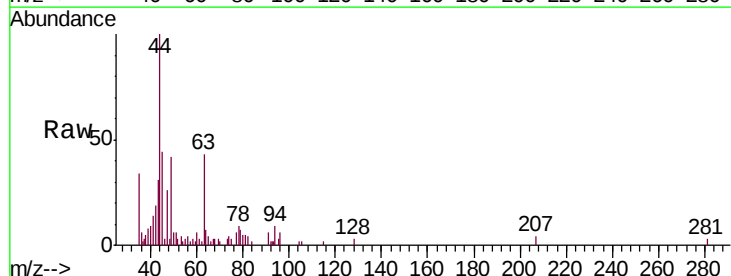
Instrument :
MSVOA_X
ClientSampleId :
16858

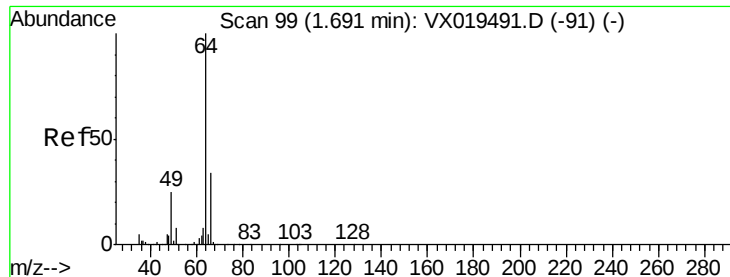
Tgt Ion: 168 Resp: 307500
Ion Ratio Lower Upper
168 100
99 57.1 45.8 68.6



#5
Bromomethane
Concen: 0.207 ug/l
RT: 1.62 min Scan# 87
Delta R.T. -0.00 min
Lab File: VX019603.D
Acq: 24 Nov 2020 14:22

Tgt Ion: 94 Resp: 289
Ion Ratio Lower Upper
94 100
96 63.7 75.6 113.4#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. 0.01 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

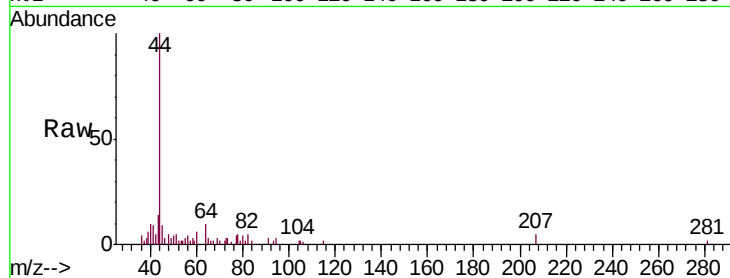
16858

Tgt Ion: 64 Resp: 306

Ion Ratio Lower Upper

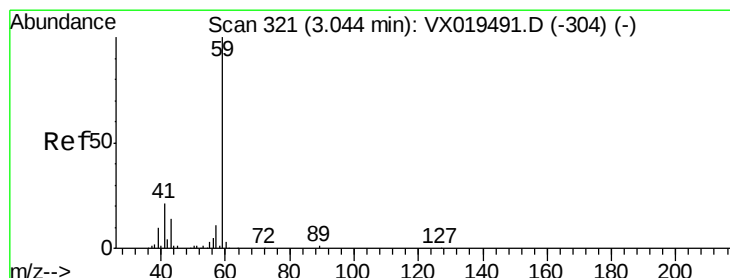
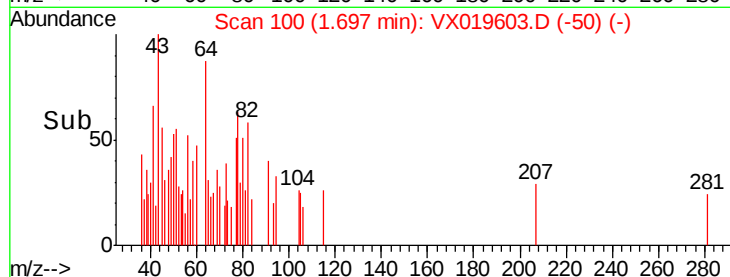
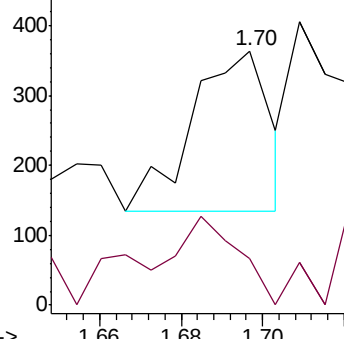
64 100

66 28.7 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: 15.616 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019603.D

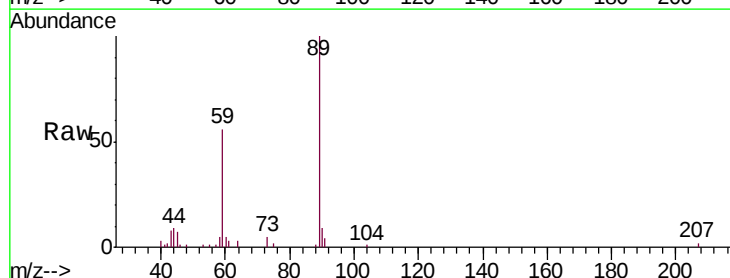
Acq: 24 Nov 2020 14:22

Tgt Ion: 59 Resp: 11783

Ion Ratio Lower Upper

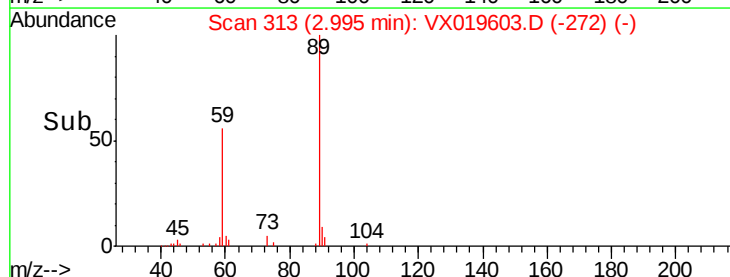
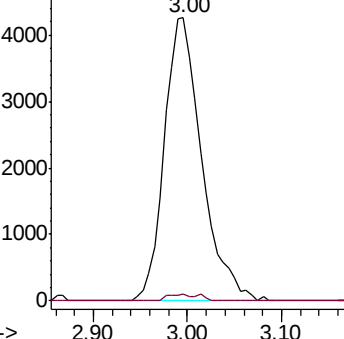
59 100

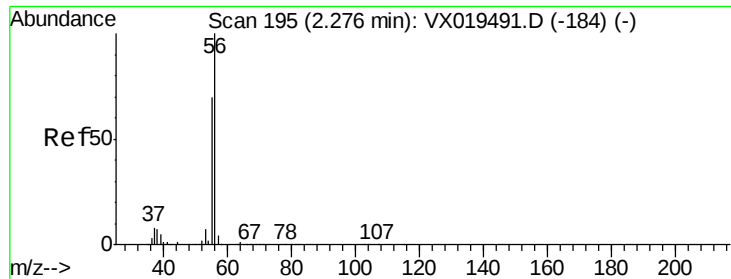
57 1.2 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.284 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

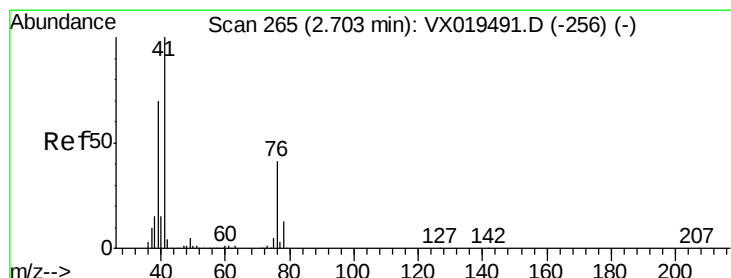
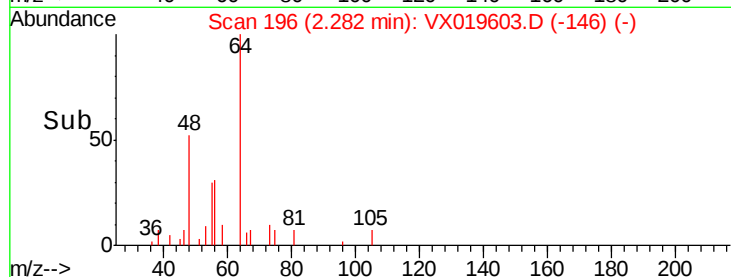
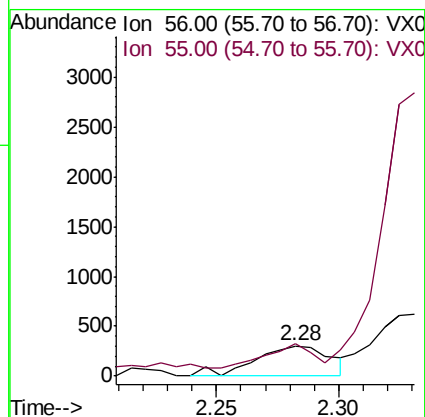
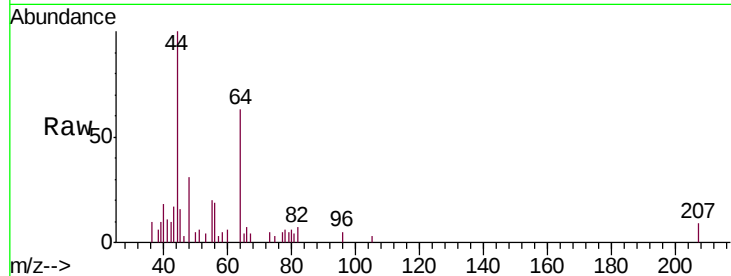
16858

Tgt Ion: 56 Resp: 651

Ion Ratio Lower Upper

56 100

55 50.2 55.5 83.3#



#14

Allyl chloride

Concen: 2.302 ug/l

RT: 2.61 min Scan# 249

Delta R.T. -0.10 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

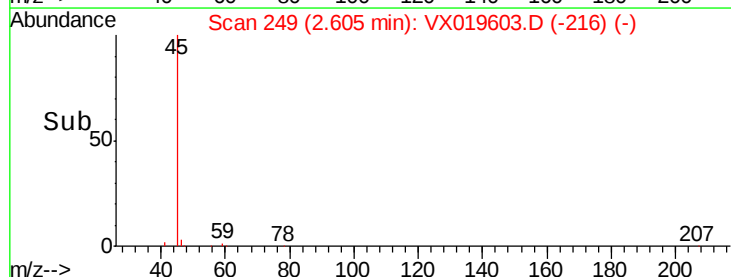
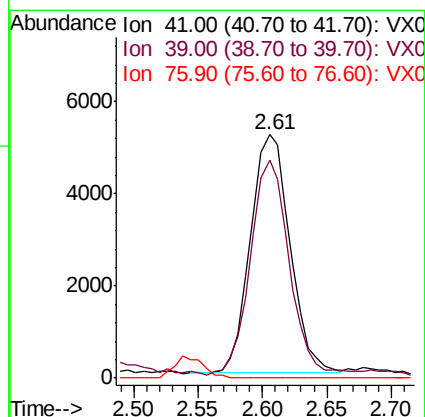
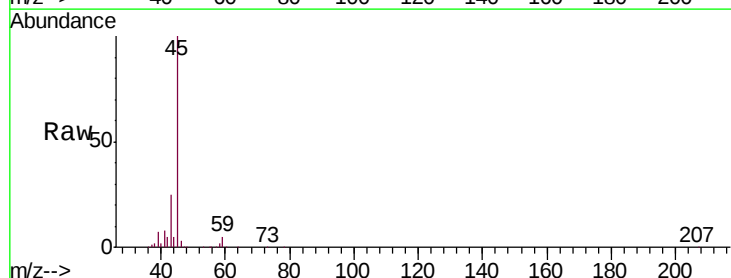
Tgt Ion: 41 Resp: 11011

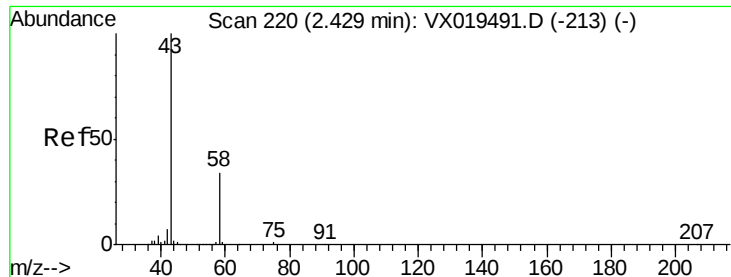
Ion Ratio Lower Upper

41 100

39 88.0 53.0 79.4#

76 0.0 31.0 46.6#





#16

Acetone

Concen: 1263.364 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

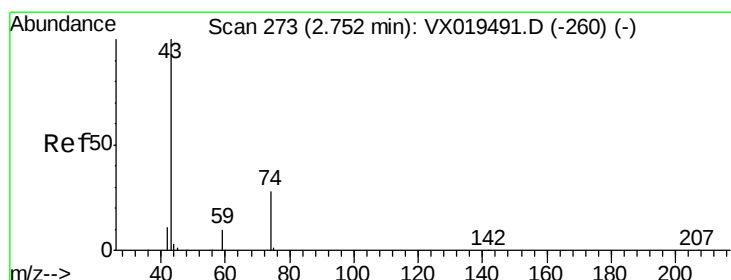
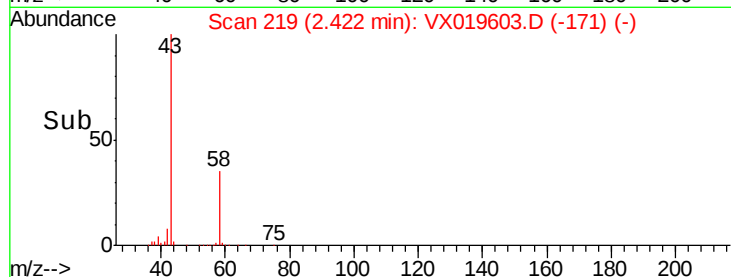
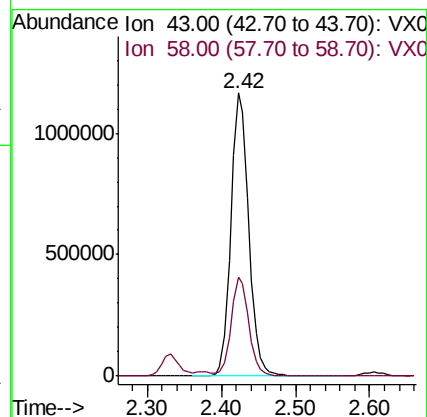
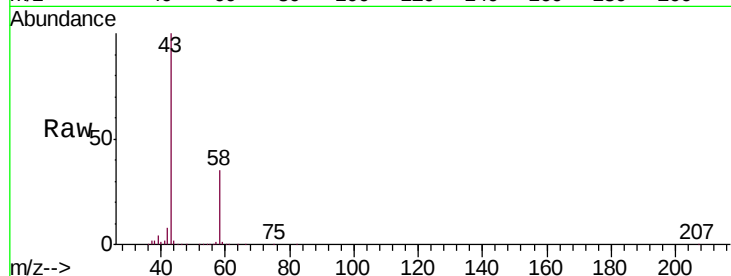
16858

Tgt Ion: 43 Resp: 1947910

Ion Ratio Lower Upper

43 100

58 34.9 27.4 41.2



#18

Methyl Acetate

Concen: 9.296 ug/l

RT: 2.61 min Scan# 249

Delta R.T. -0.15 min

Lab File: VX019603.D

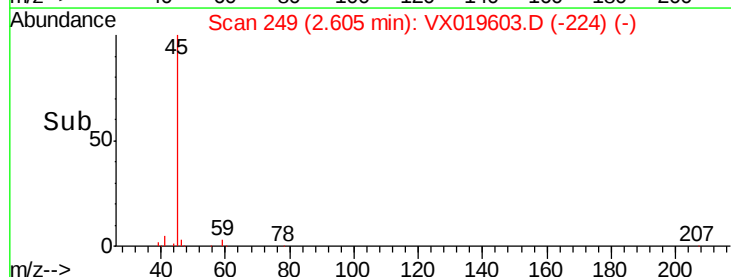
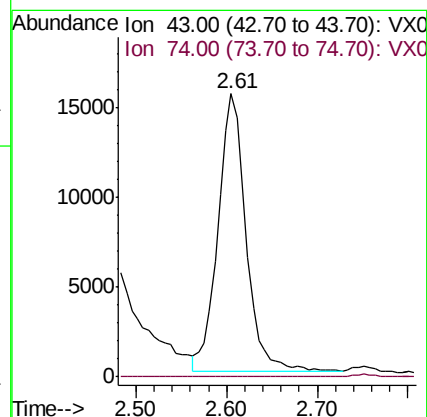
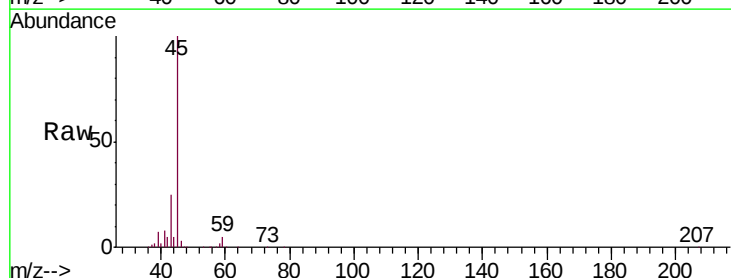
Acq: 24 Nov 2020 14:22

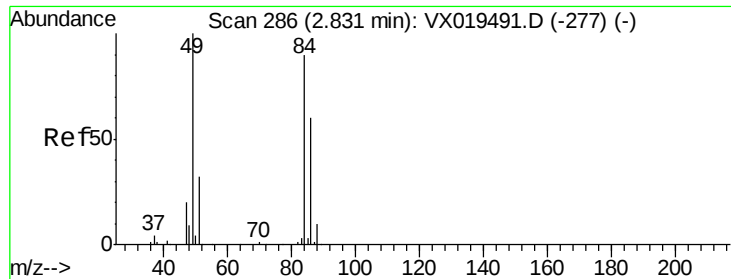
Tgt Ion: 43 Resp: 33167

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.4#

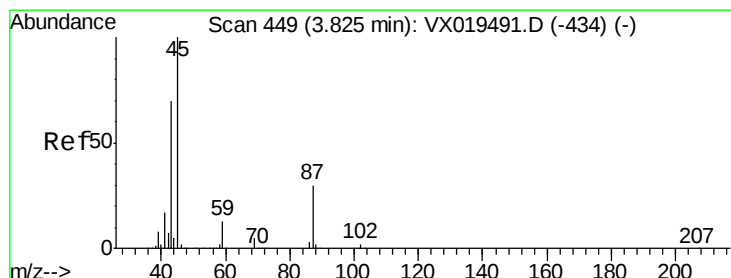
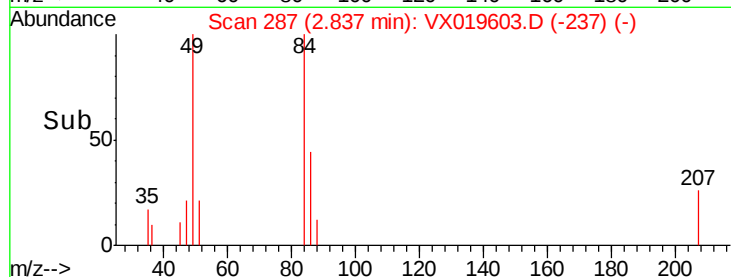
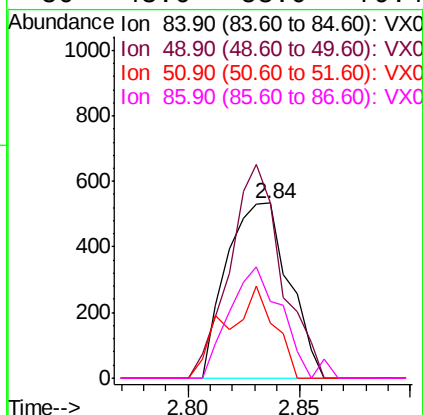
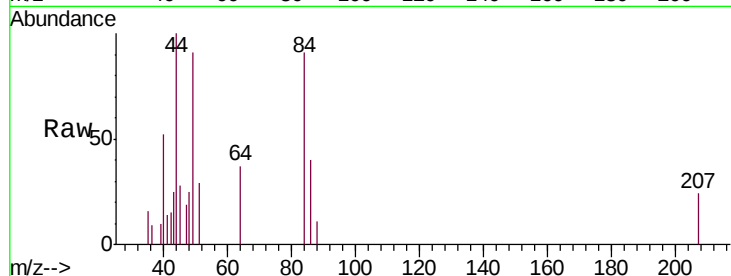




#20
Methylene Chloride
Concen: 0.268 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019603.D
Acq: 24 Nov 2020 14:22

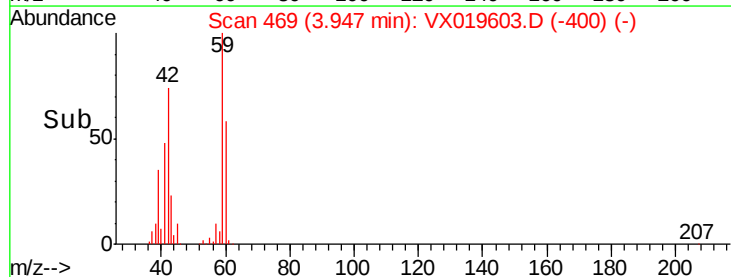
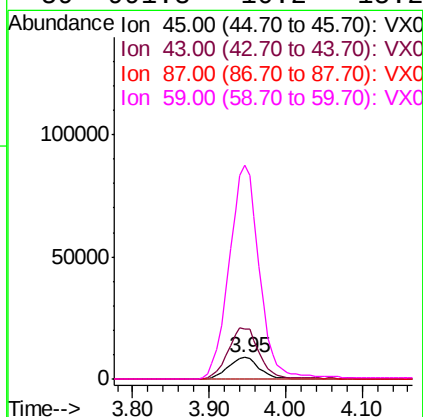
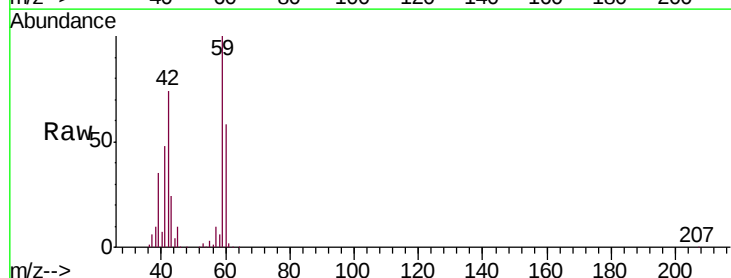
Instrument :
MSVOA_X
ClientSampleId :
16858

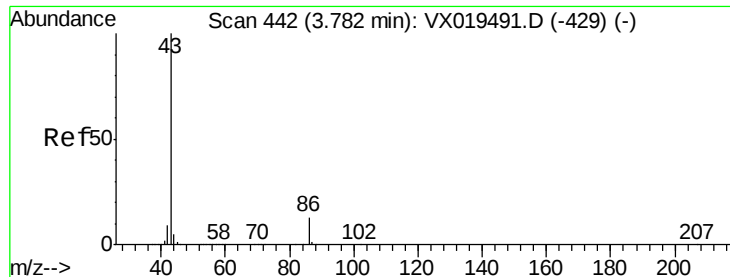
Tgt Ion:	84	Resp:	1034
Ion	Ratio	Lower	Upper
84	100		
49	99.8	88.5	132.7
51	31.6	28.0	42.0
86	43.6	53.0	79.4#



#22
Diisopropyl ether
Concen: 2.544 ug/l
RT: 3.95 min Scan# 469
Delta R.T. 0.12 min
Lab File: VX019603.D
Acq: 24 Nov 2020 14:22

Tgt Ion:	45	Resp:	25173
Ion	Ratio	Lower	Upper
45	100		
43	233.2	56.1	84.1#
87	0.0	24.2	36.2#
59	991.8	10.2	15.2#





#23

Vinyl Acetate

Concen: 7.173 ug/l

RT: 3.94 min Scan# 468

Delta R.T. 0.16 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

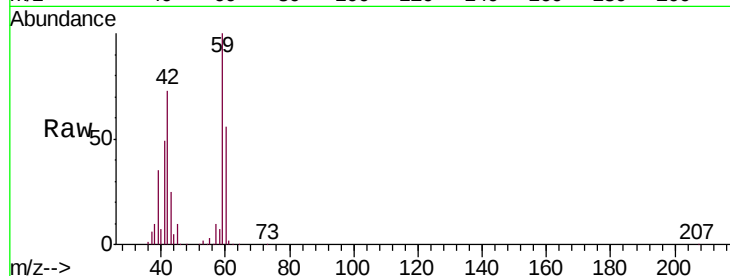
16858

Tgt Ion: 43 Resp: 59523

Ion Ratio Lower Upper

43 100

86 0.0 10.2 15.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

25000

20000

15000

10000

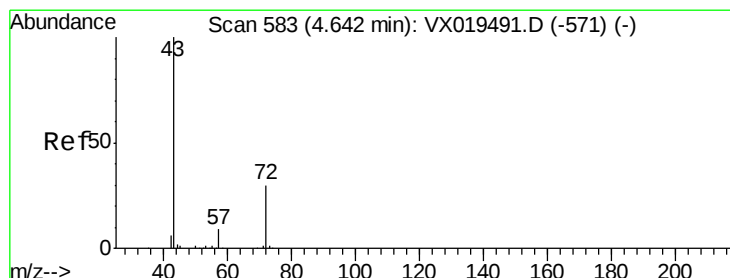
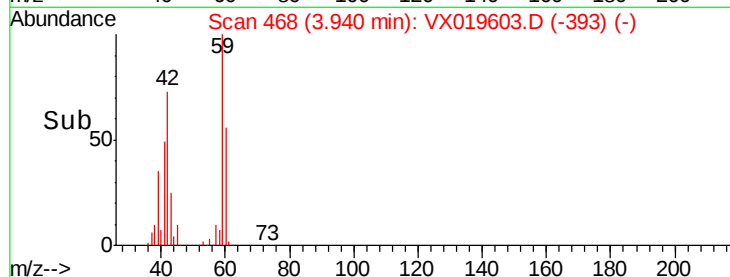
5000

0

3.80 3.90 4.00 4.10

Time-->

3.94



#25

2-Butanone

Concen: 5.786 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.00 min

Lab File: VX019603.D

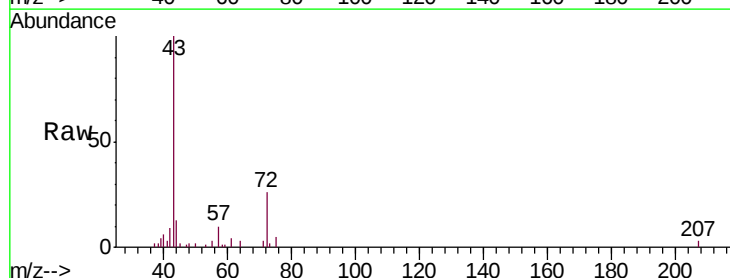
Acq: 24 Nov 2020 14:22

Tgt Ion: 43 Resp: 13401

Ion Ratio Lower Upper

43 100

72 26.3 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

5000

4000

3000

2000

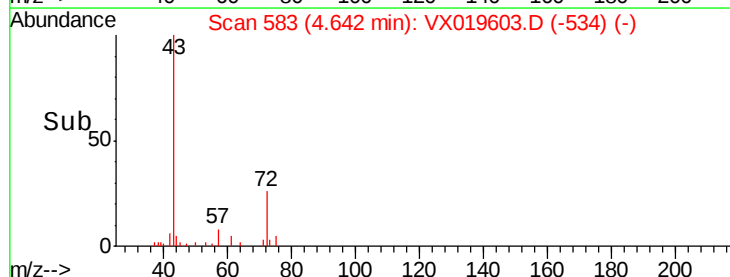
1000

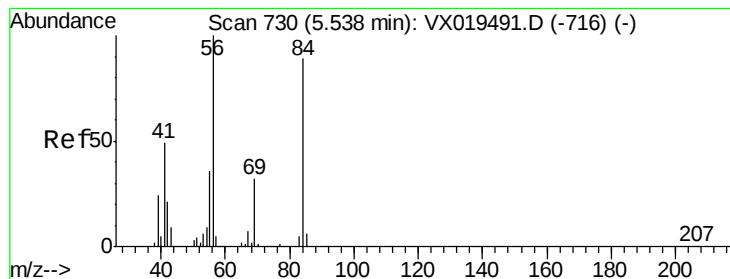
0

4.60 4.70

Time-->

4.64





#31

Cyclohexane

Concen: 1.141 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.09 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampled :

16858

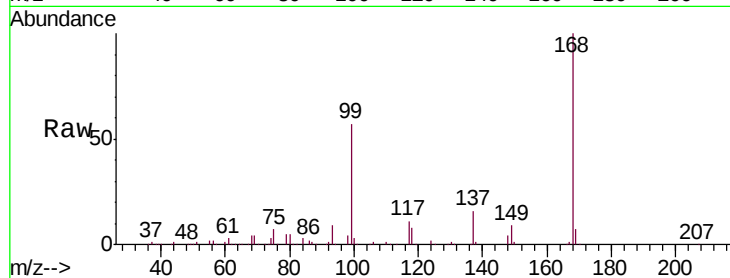
Tgt Ion: 56 Resp: 5915

Ion Ratio Lower Upper

56 100

69 188.1 25.5 38.3#

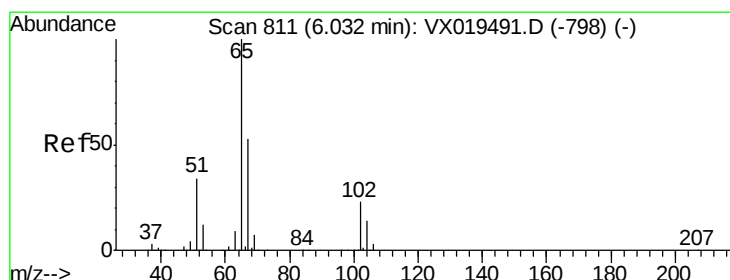
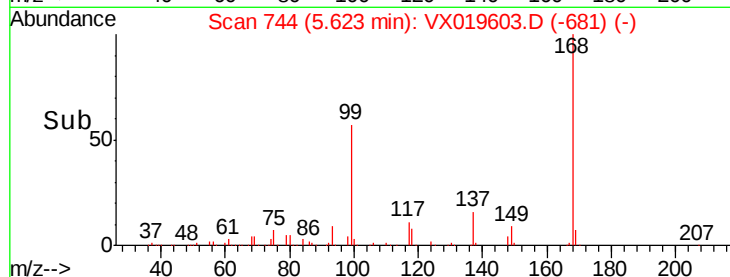
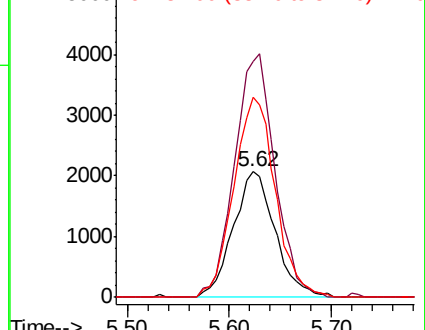
84 159.7 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.660 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019603.D

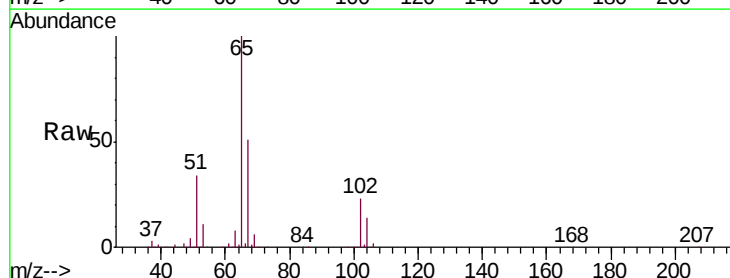
Acq: 24 Nov 2020 14:22

Tgt Ion: 65 Resp: 190019

Ion Ratio Lower Upper

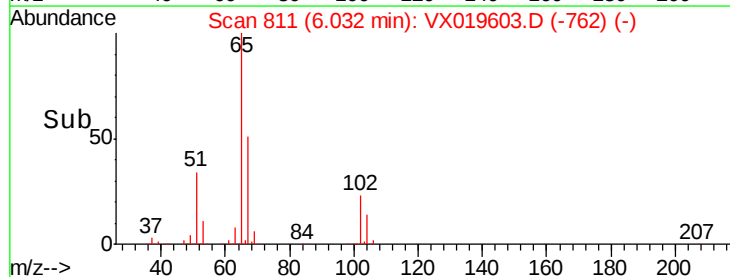
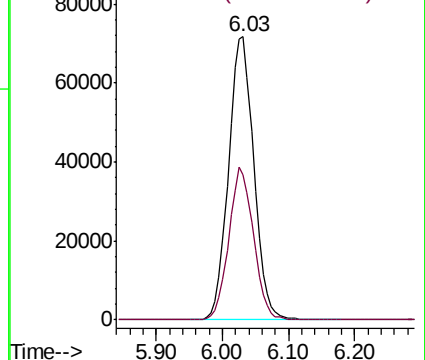
65 100

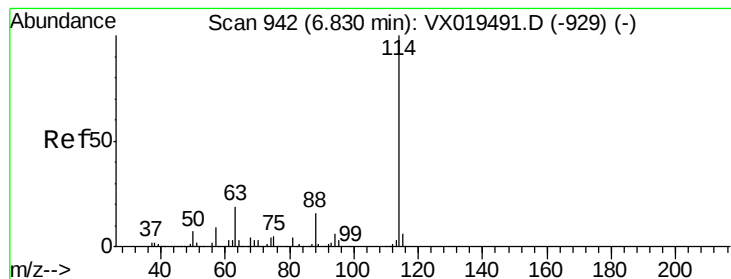
67 52.5 0.0 105.0



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: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampled :

16858

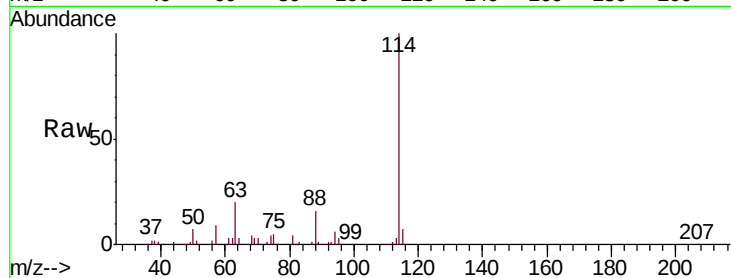
Tgt Ion:114 Resp: 503915

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.8

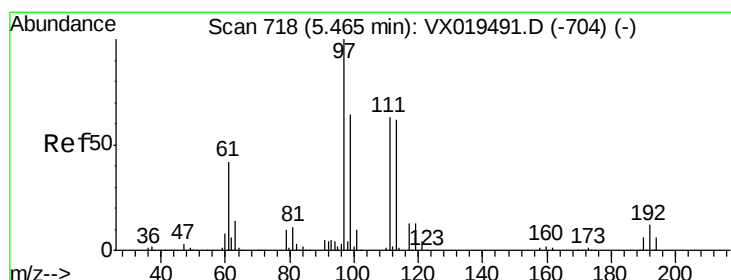
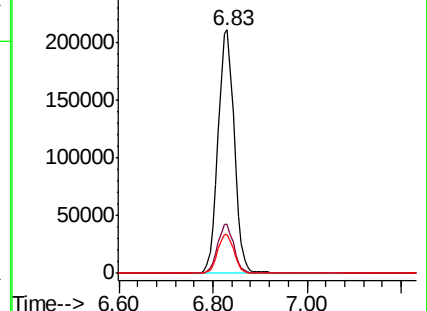
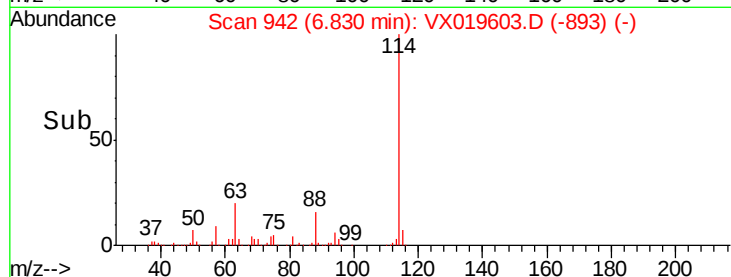
88 15.7 0.0 31.6



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: 46.875 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

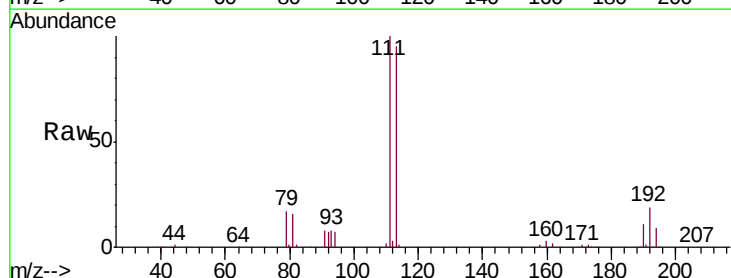
Tgt Ion:113 Resp: 148269

Ion Ratio Lower Upper

113 100

111 102.4 81.5 122.3

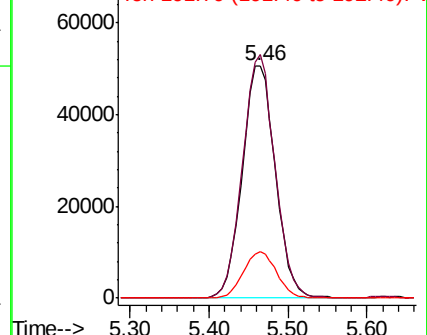
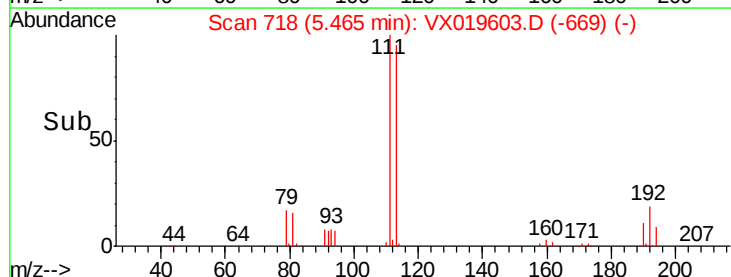
192 20.0 16.2 24.2

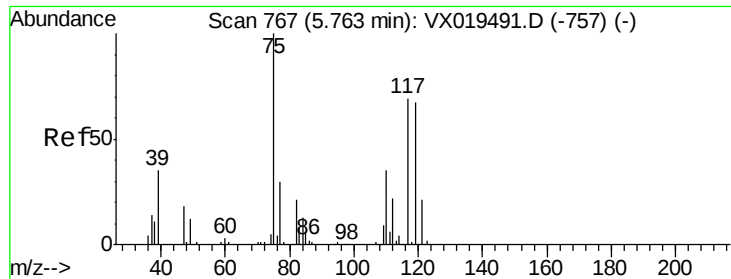


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.832 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampled :

16858

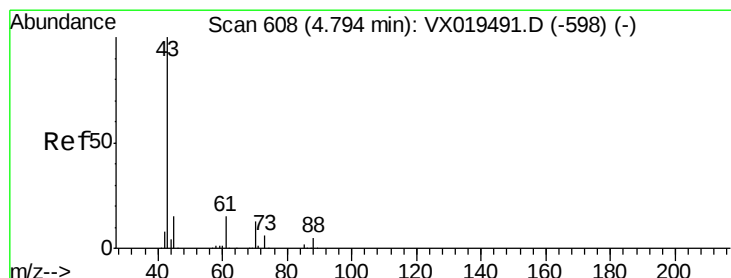
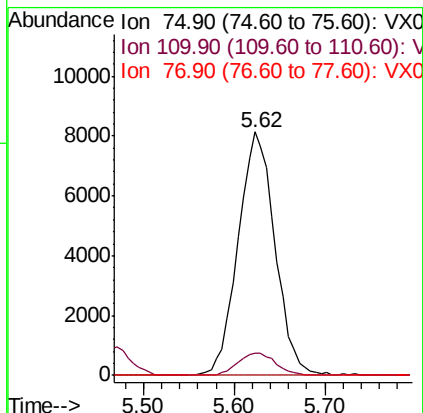
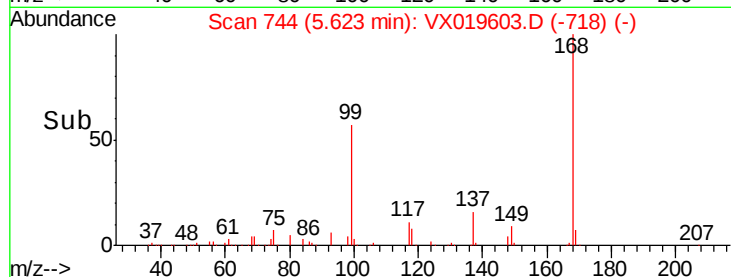
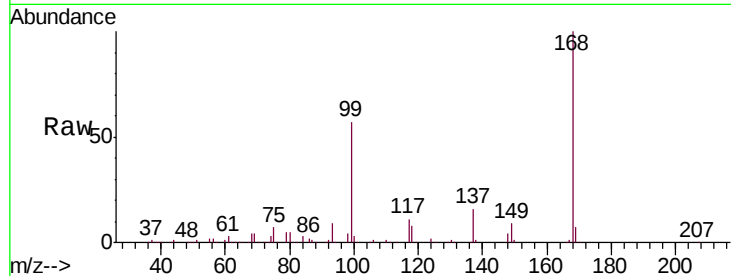
Tgt Ion: 75 Resp: 22827

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.3#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 3.013 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

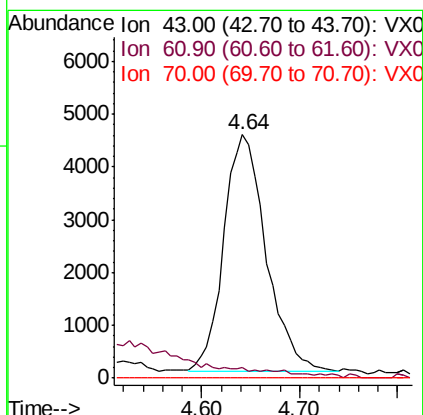
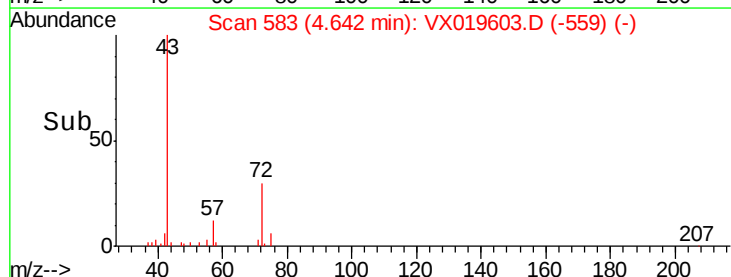
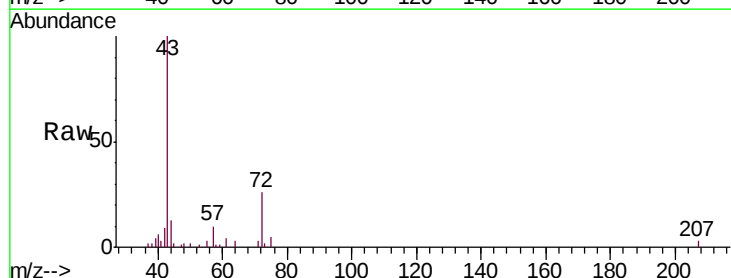
Tgt Ion: 43 Resp: 13362

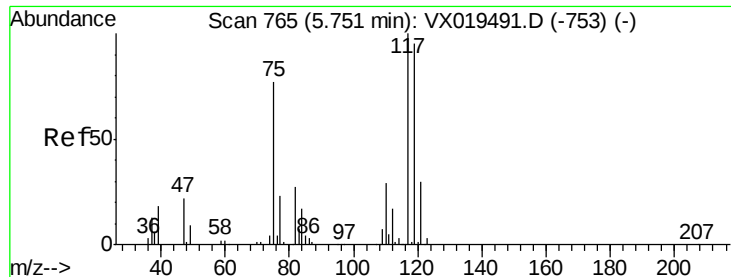
Ion Ratio Lower Upper

43 100

61 0.0 12.7 19.1#

70 0.0 10.2 15.2#





#38

Carbon Tetrachloride

Concen: 6.741 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

16858

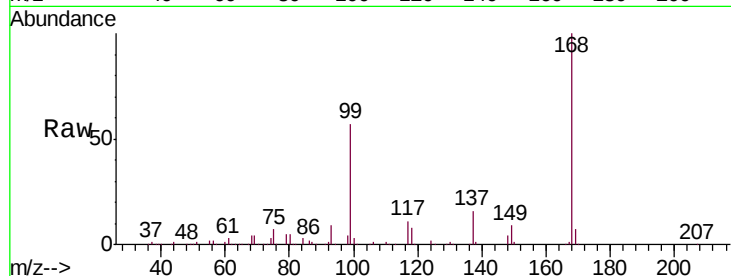
Tgt Ion:117 Resp: 30823

Ion Ratio Lower Upper

117 100

119 4.0 75.9 113.9#

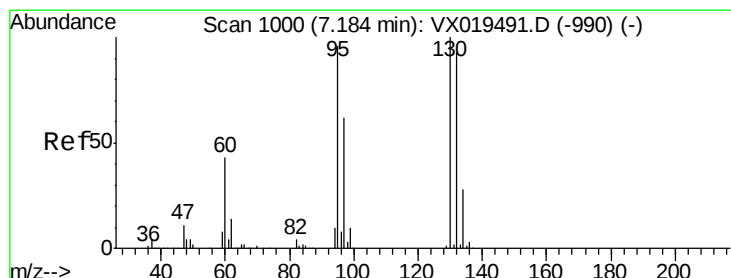
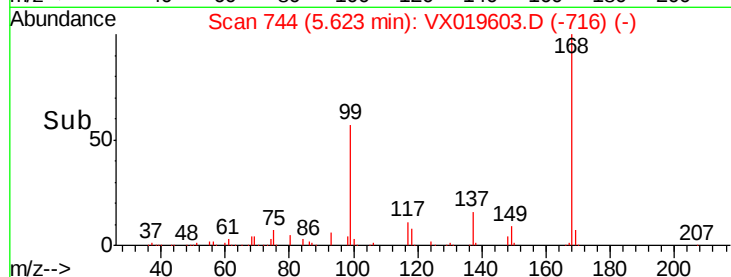
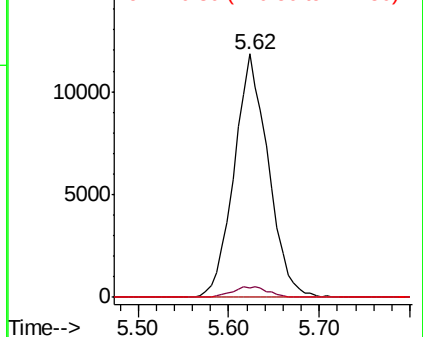
121 0.0 24.0 36.0#



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



#44

Trichloroethene

Concen: 0.225 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019603.D

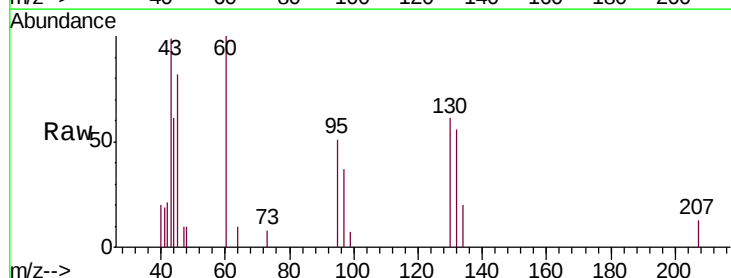
Acq: 24 Nov 2020 14:22

Tgt Ion:130 Resp: 857

Ion Ratio Lower Upper

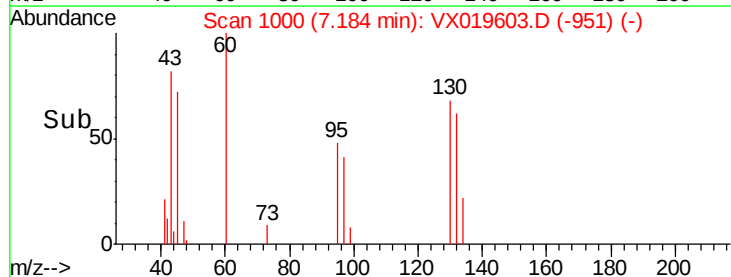
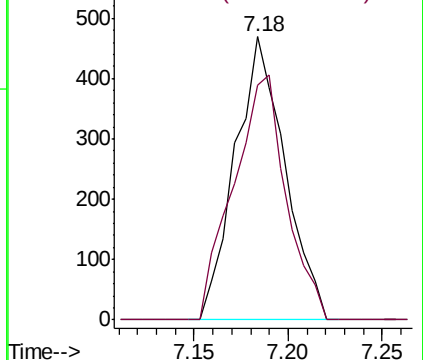
130 100

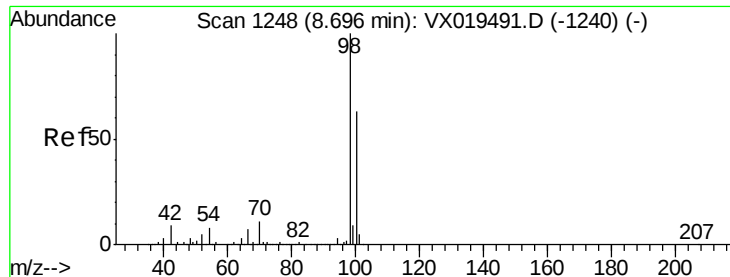
95 83.2 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 48.762 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

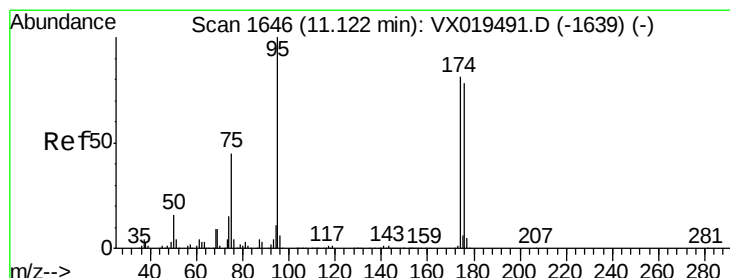
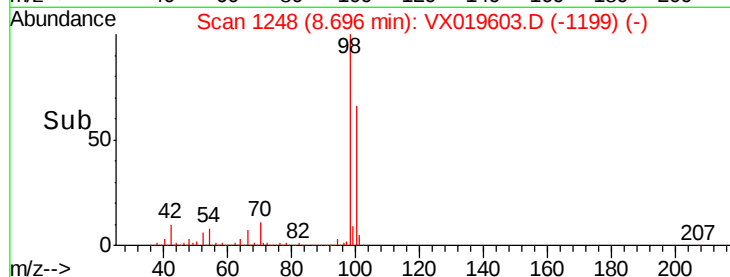
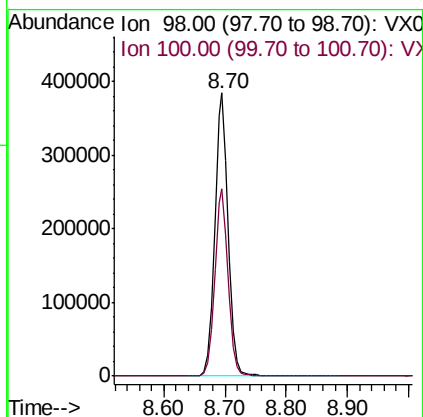
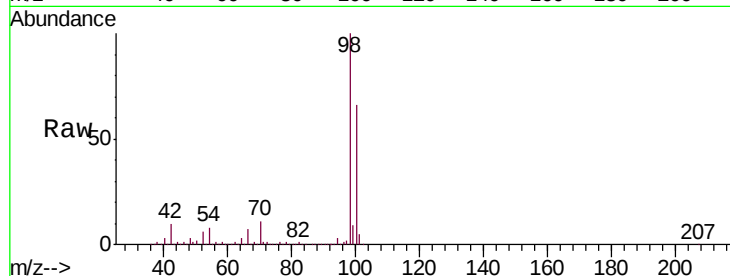
16858

Tgt Ion: 98 Resp: 599356

Ion Ratio Lower Upper

98 100

100 66.1 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 45.809 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

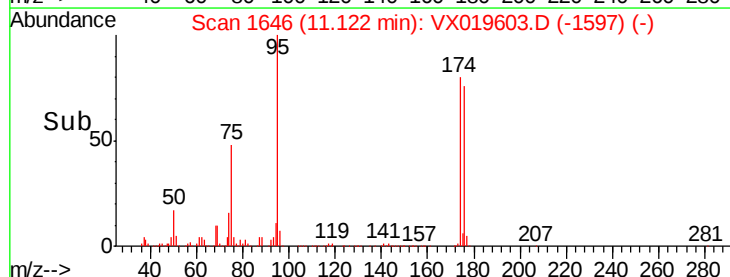
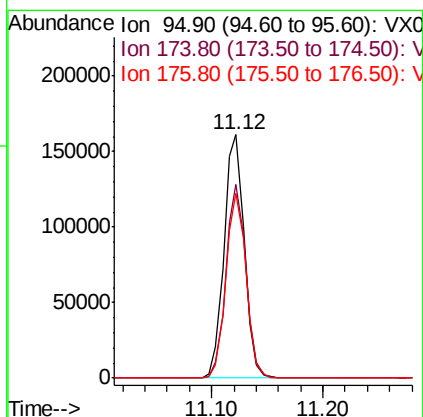
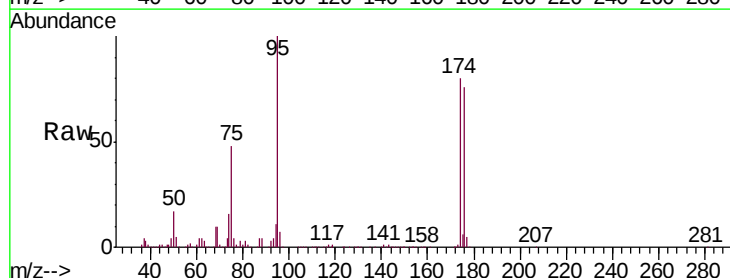
Tgt Ion: 95 Resp: 202580

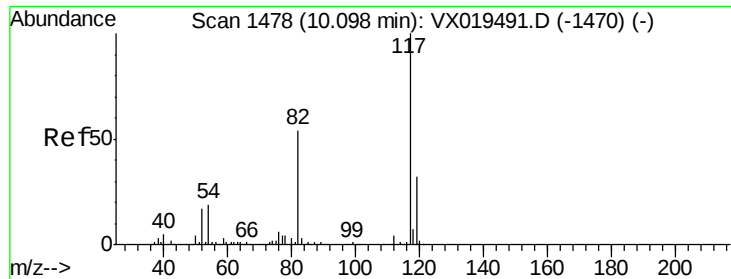
Ion Ratio Lower Upper

95 100

174 78.0 0.0 156.2

176 75.4 0.0 151.4

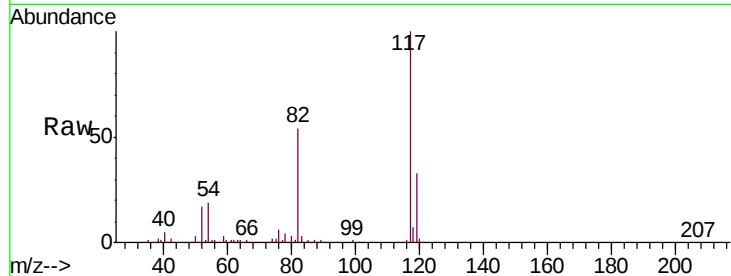




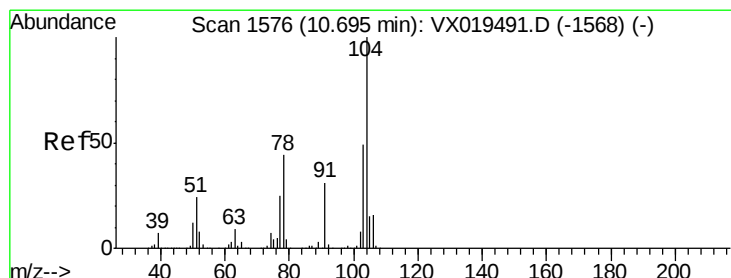
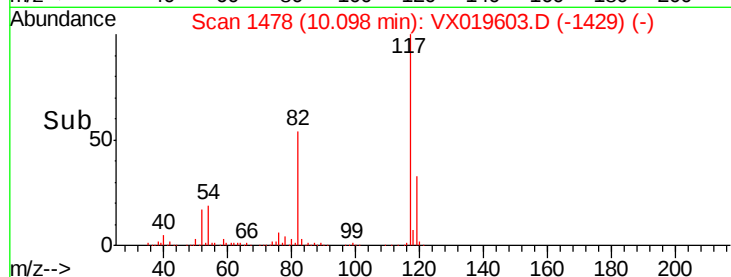
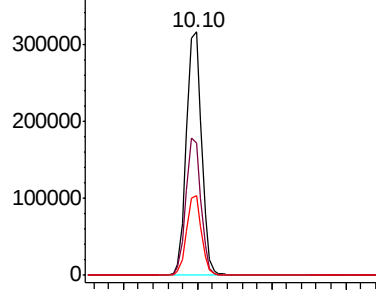
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019603.D
Acq: 24 Nov 2020 14:22

Instrument :
MSVOA_X
ClientSampled :
16858

Tgt Ion:117 Resp: 440833
Ion Ratio Lower Upper
117 100
82 54.4 43.0 64.4
119 32.9 25.6 38.4

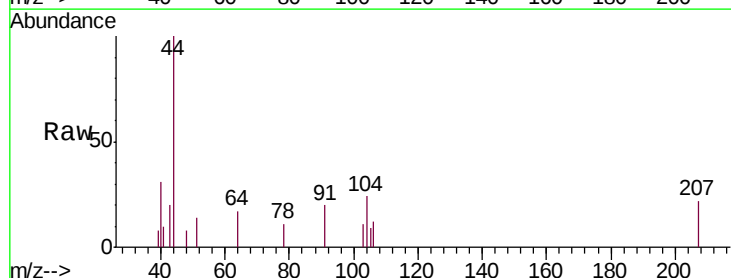


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

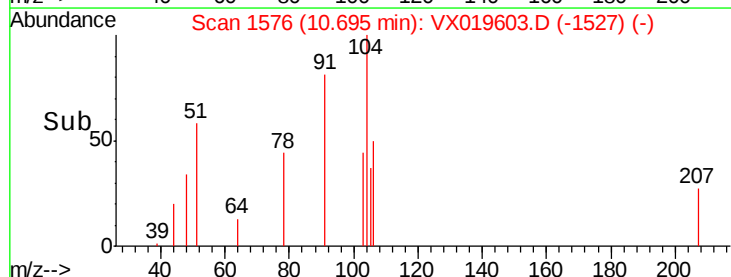
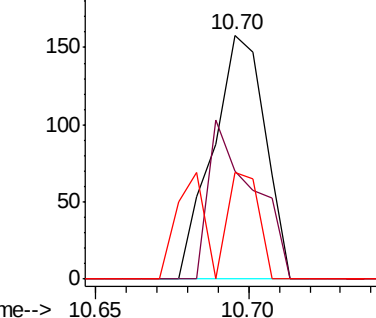


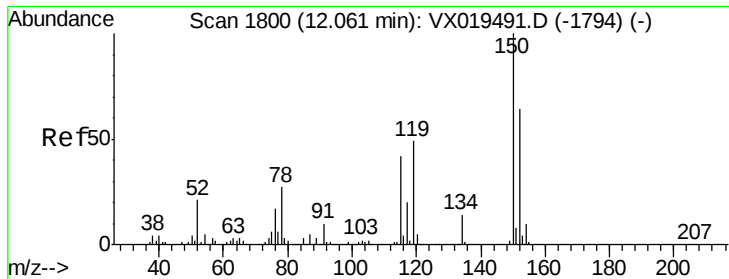
#70
Styrene
Concen: 1.663 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019603.D
Acq: 24 Nov 2020 14:22

Tgt Ion:104 Resp: 187
Ion Ratio Lower Upper
104 100
78 0.0 39.5 59.3#
103 26.2 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: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

16858

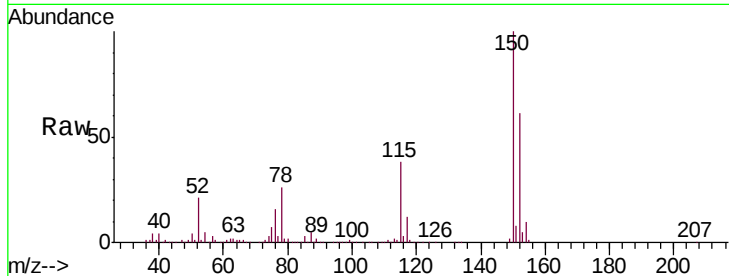
Tgt Ion:152 Resp: 186269

Ion Ratio Lower Upper

152 100

115 60.5 41.8 125.4

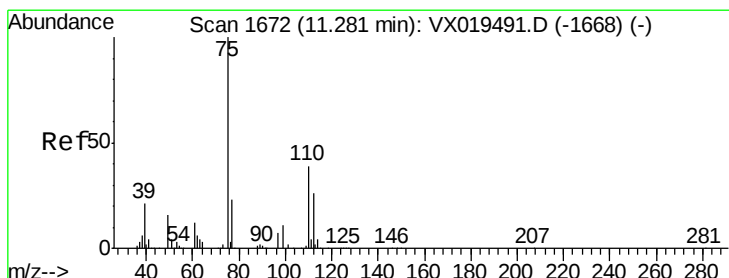
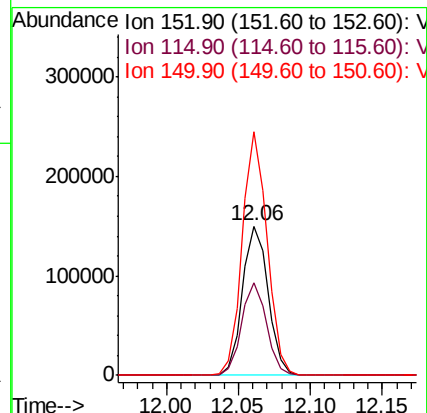
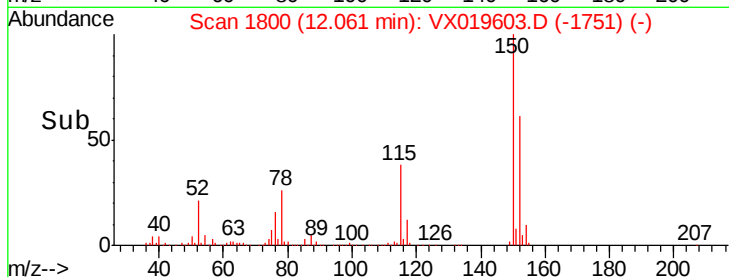
150 157.8 0.0 348.2



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: 24.384 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019603.D

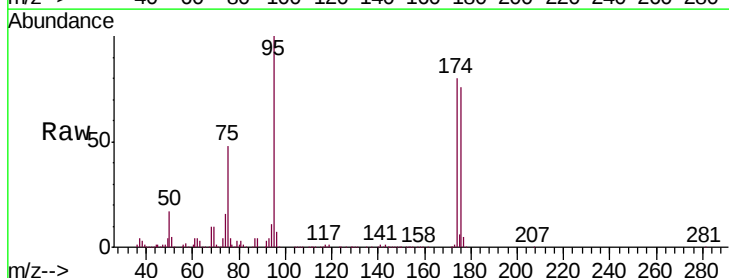
Acq: 24 Nov 2020 14:22

Tgt Ion: 75 Resp: 99123

Ion Ratio Lower Upper

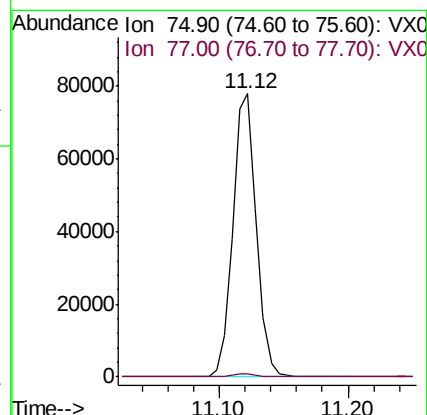
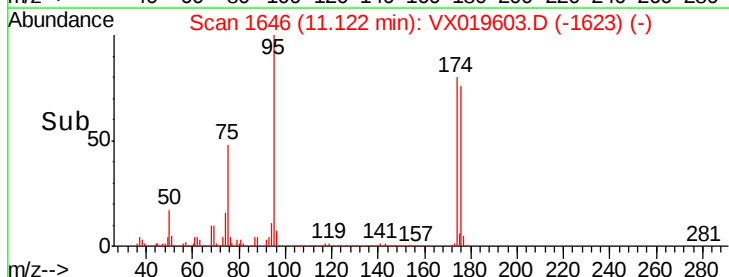
75 100

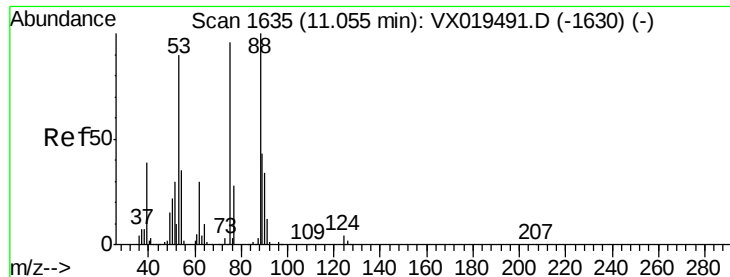
77 1.2 20.0 60.0#



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: 64.518 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

Instrument :

MSVOA_X

ClientSampleId :

16858

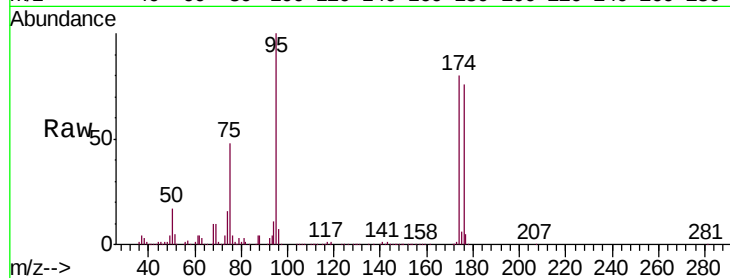
Tgt Ion: 75 Resp: 99123

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

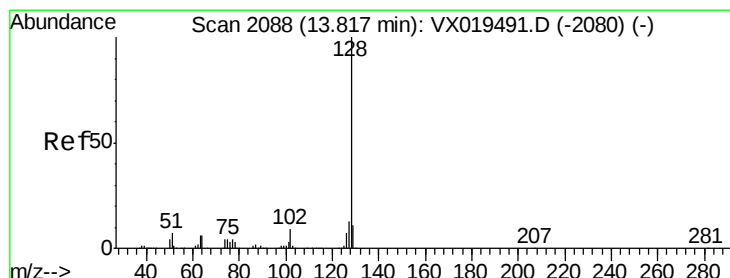
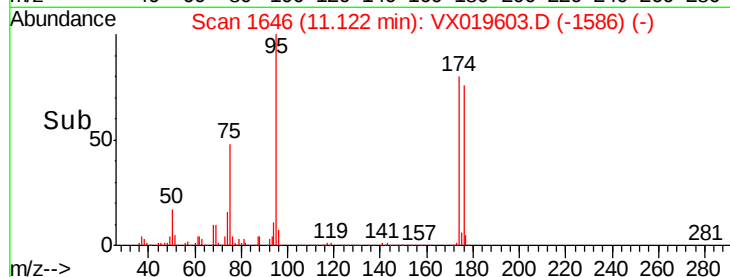
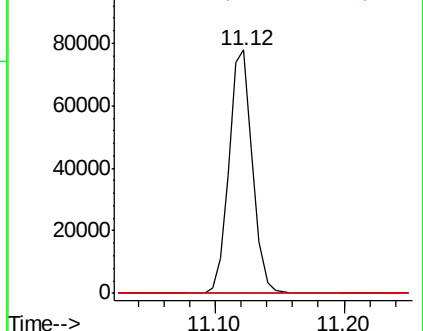
89 0.0 37.3 55.9#



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



#95

Naphthalene

Concen: 2.301 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019603.D

Acq: 24 Nov 2020 14:22

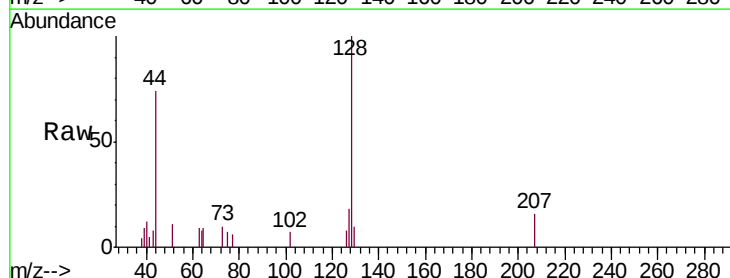
Tgt Ion: 128 Resp: 1761

Ion Ratio Lower Upper

128 100

127 17.8 10.3 15.5#

129 9.0 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

