

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\
 Data File : VX003971.D
 Acq On : 10 Aug 2018 12:44
 Operator : JC/MD
 Sample : J4387-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0557

Quant Time: Aug 11 01:43:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	324382	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	506409	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	463891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	263417	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	222664	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
35) Dibromofluoromethane	5.50	113	191302	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
50) Toluene-d8	8.72	98	714502	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.14	95	250514	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	

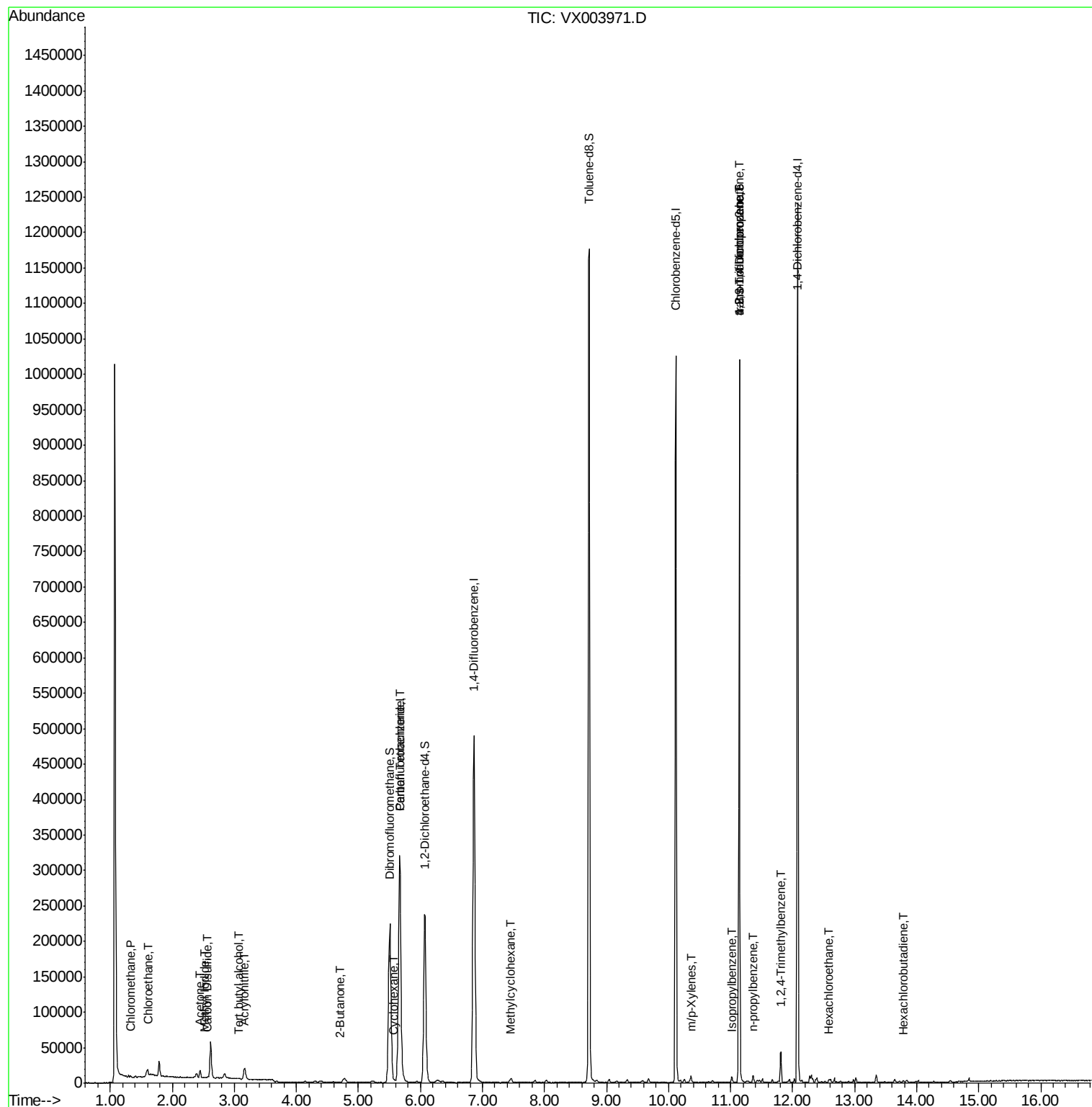
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1846	0.41	ug/l	98
5) Bromomethane	1.65	94	1691	Below Cal		84
6) Chloroethane	1.60	64	10760	3.77	ug/l #	53
10) Methyl Iodide	2.51	142	1340	0.29	ug/l	98
11) Tert butyl alcohol	3.07	59	508	0.49	ug/l #	73
13) Acrolein	2.29	56	352	Below Cal		84
15) Acrylonitrile	3.15	53	760	0.31	ug/l #	83
16) Acetone	2.45	43	11078	4.33	ug/l	99
17) Carbon Disulfide	2.57	76	2756	0.72	ug/l	97
20) Methylene Chloride	2.85	84	471	Below Cal	#	61
25) 2-Butanone	4.70	43	1086	0.28	ug/l #	48
31) Cyclohexane	5.57	56	1620	0.26	ug/l #	81
38) Carbon Tetrachloride	5.67	117	28055	5.20	ug/l #	15
39) Methylcyclohexane	7.46	83	2202	0.33	ug/l	92
68) m/p-Xylenes	10.36	106	2032	0.26	ug/l	88
73) Isopropylbenzene	11.02	105	3899	0.20	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	120672	20.74	ug/l #	36
78) n-propylbenzene	11.36	91	4511	0.21	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.14	75	120672	56.14	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	19684	1.23	ug/l	98
88) 1,4-Dichlorobenzene	12.03	146	1001	Below Cal		88
90) Hexachloroethane	12.58	117	544	0.20	ug/l #	4
94) Hexachlorobutadiene	13.79	225	576	0.62	ug/l	95

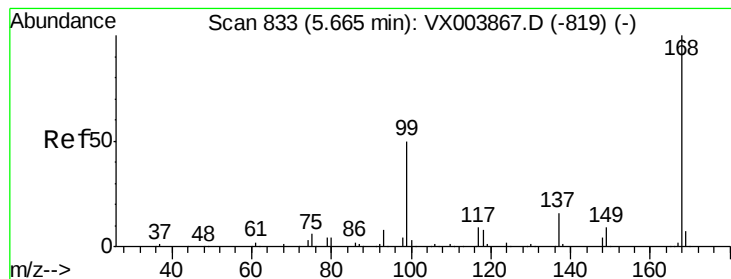
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:45:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampled :

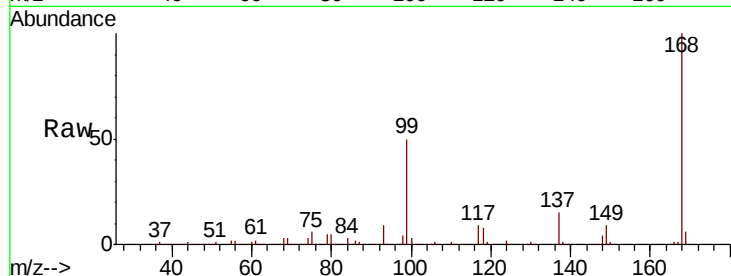
FL-0557

Tot Ion:168 Resp: 324382

Ion Ratio Lower Upper

168 100

99 50.1 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

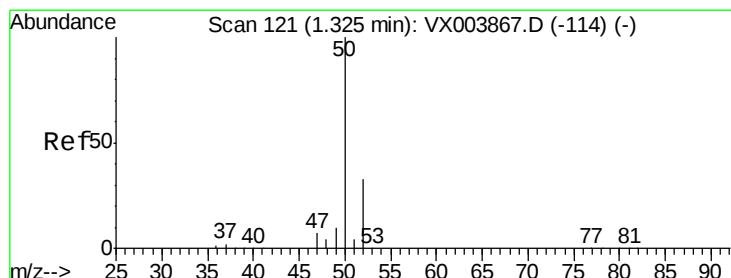
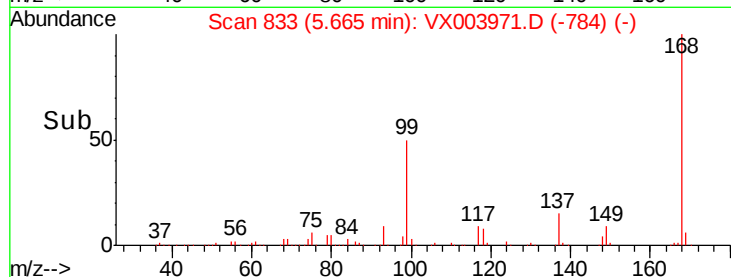
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.41 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003971.D

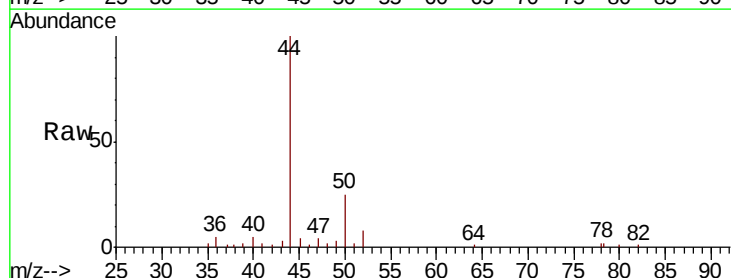
Acq: 10 Aug 2018 12:44

Tgt Ion: 50 Resp: 1846

Ion Ratio Lower Upper

50 100

52 32.3 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1500

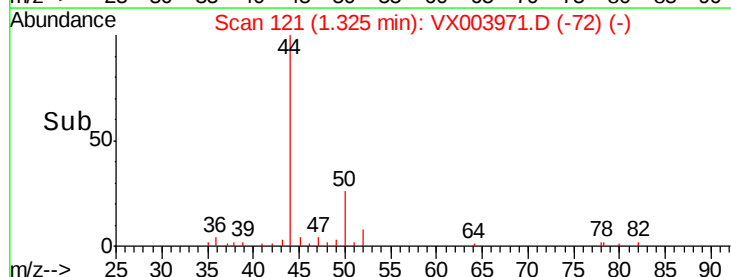
1000

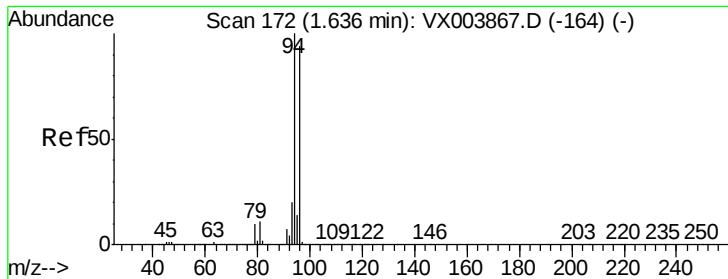
500

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampleId :

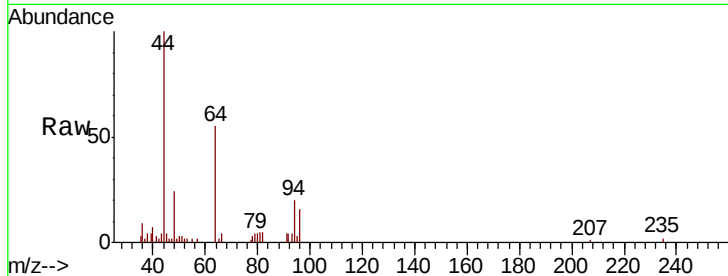
FL-0557

Tot Ion: 94 Resp: 1691

Ion Ratio Lower Upper

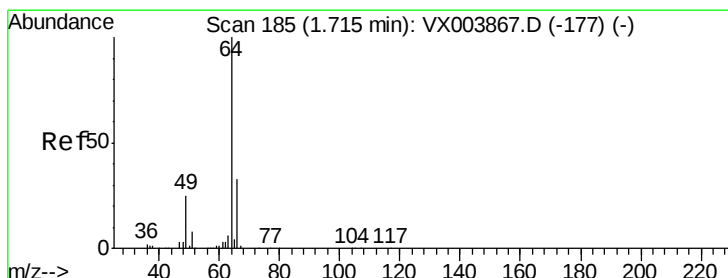
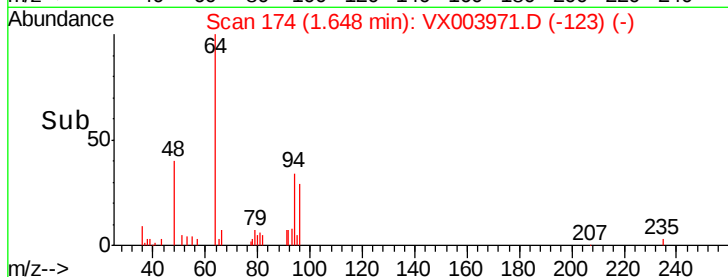
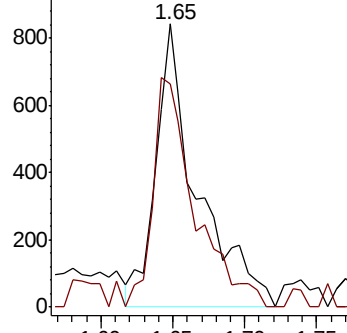
94 100

96 78.6 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.77 ug/l

RT: 1.60 min Scan# 166

Delta R.T. -0.12 min

Lab File: VX003971.D

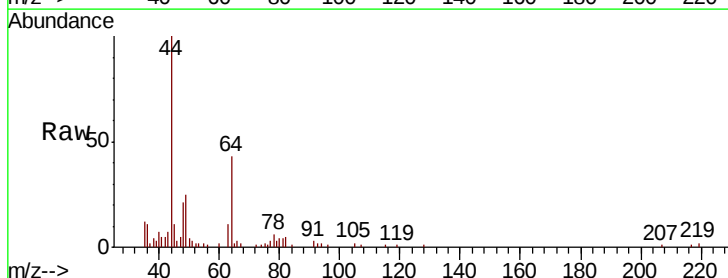
Acq: 10 Aug 2018 12:44

Tgt Ion: 64 Resp: 10760

Ion Ratio Lower Upper

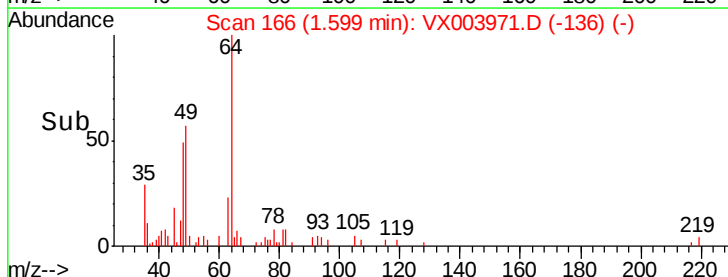
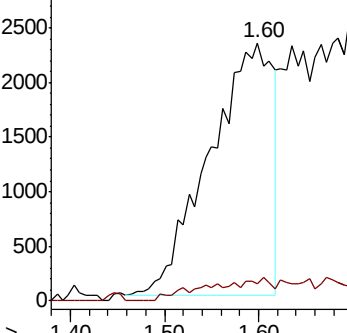
64 100

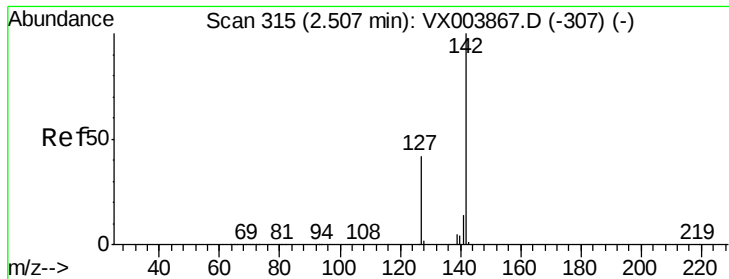
66 6.7 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

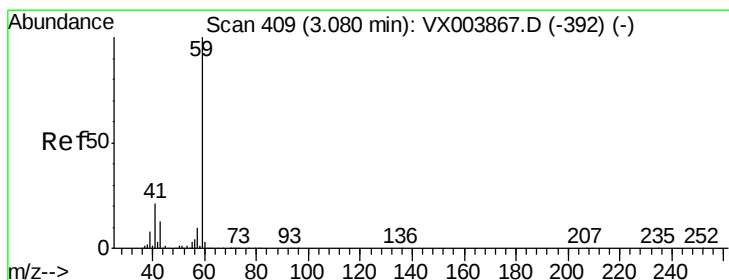
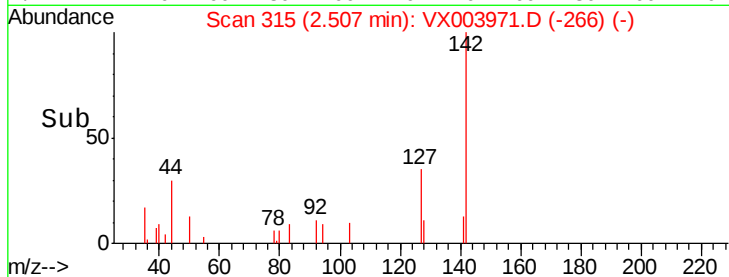
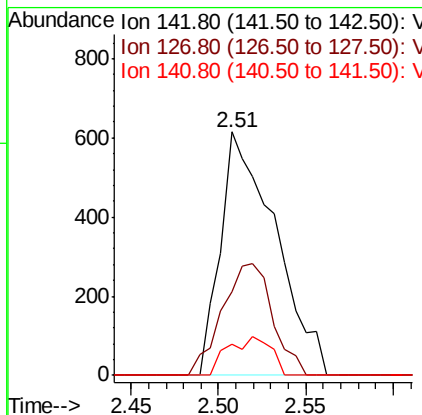
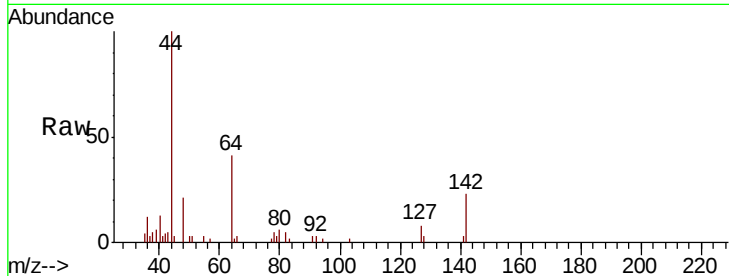




#10
Methvl Iodide
Concen: 0.29 ug/l
RT: 2.51 min Scan# 315
Delta R.T. 0.00 min
Lab File: VX003971.D
Acq: 10 Aug 2018 12:44

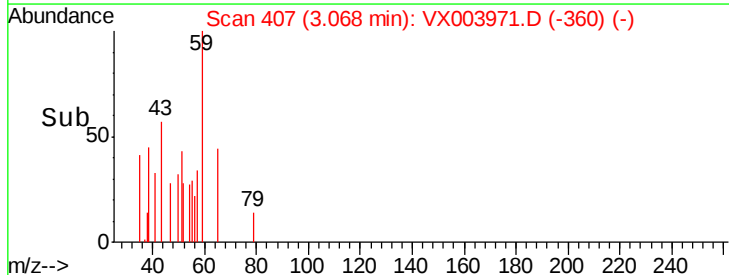
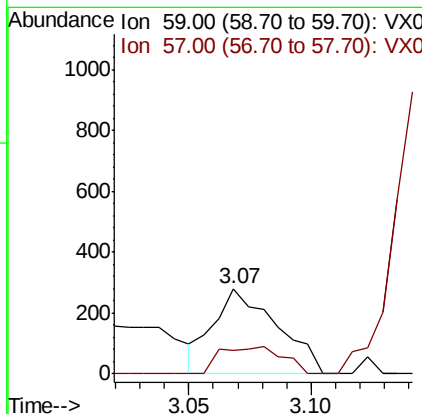
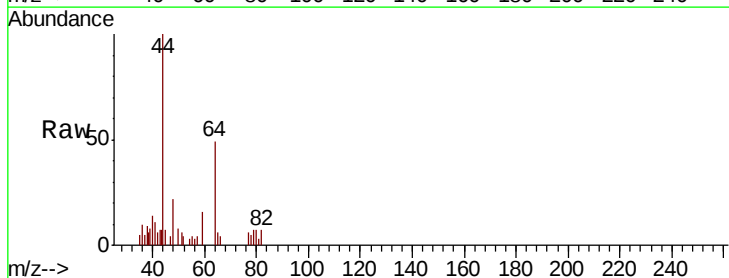
Instrument :
MSVOA_X
ClientSampleId :
FL-0557

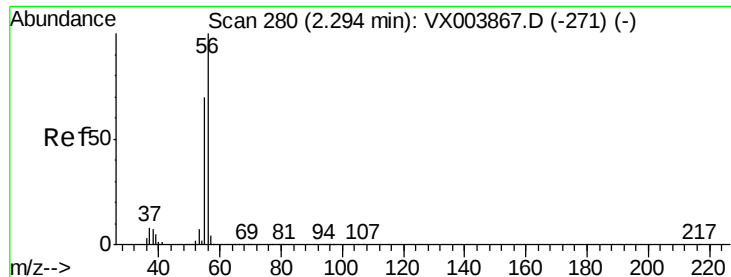
Tot Ion:142 Resp: 1340
Ion Ratio Lower Upper
142 100
127 42.2 33.1 49.7
141 12.5 11.1 16.7



#11
Tert butyl alcohol
Concen: 0.49 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003971.D
Acq: 10 Aug 2018 12:44

Tgt Ion: 59 Resp: 508
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

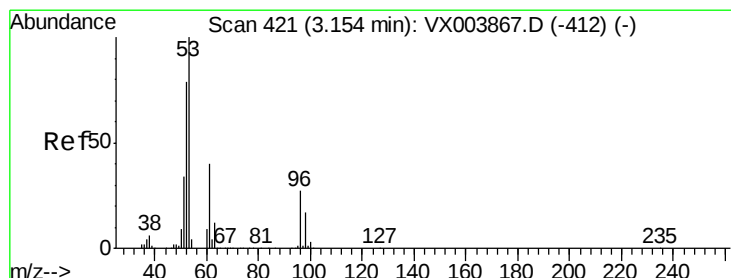
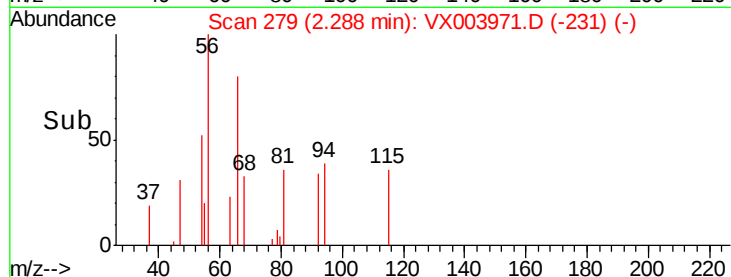
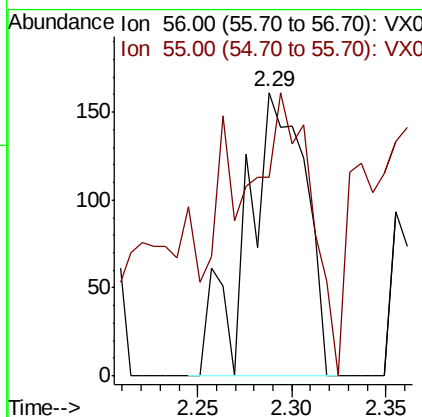
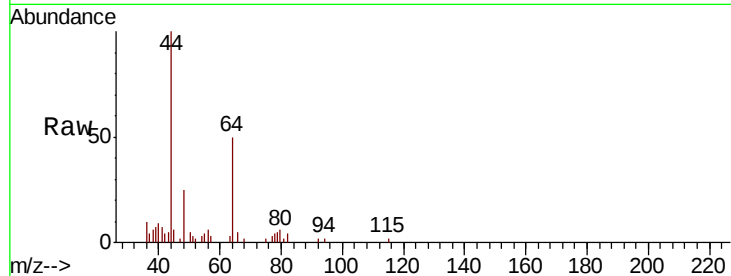




#13
 Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX003971.D
 Acq: 10 Aug 2018 12:44

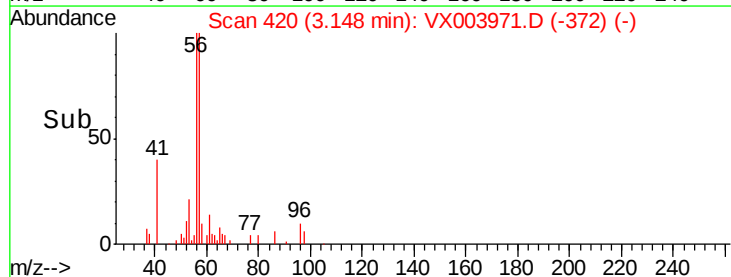
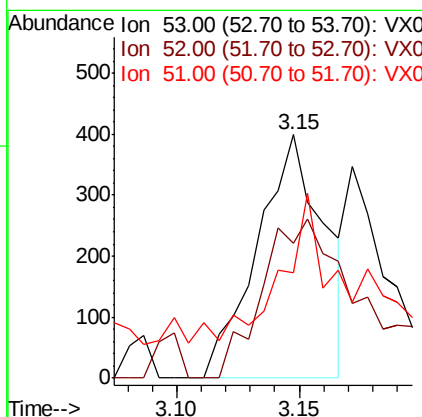
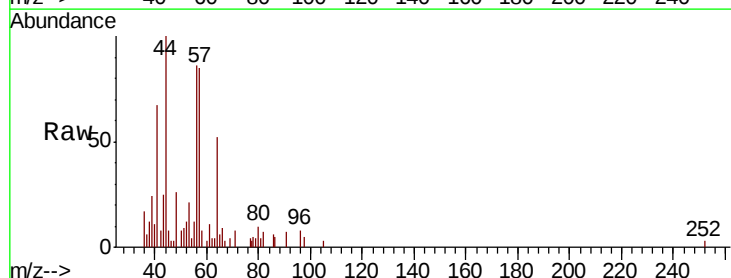
Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0557

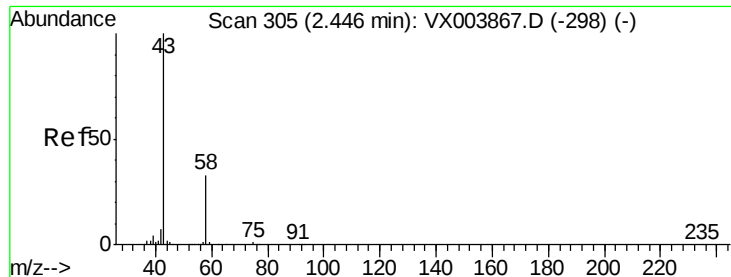
Tot Ion: 56 Resp: 352
 Ion Ratio Lower Upper
 56 100
 55 83.0 56.1 84.1



#15
 Acrylonitrile
 Concen: 0.31 ug/l
 RT: 3.15 min Scan# 420
 Delta R.T. -0.01 min
 Lab File: VX003971.D
 Acq: 10 Aug 2018 12:44

Tgt Ion: 53 Resp: 760
 Ion Ratio Lower Upper
 53 100
 52 99.1 65.3 97.9#
 51 41.1 27.9 41.9





#16

Acetone

Concen: 4.33 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampleId :

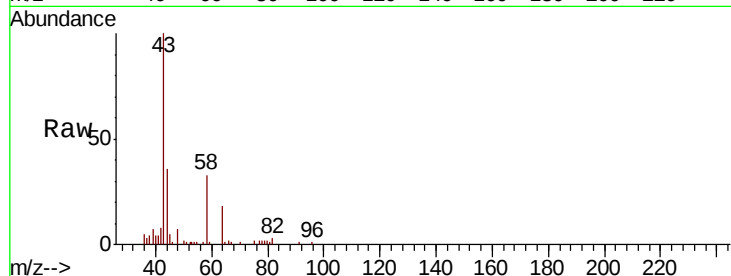
FL-0557

Tot Ion: 43 Resp: 11078

Ion Ratio Lower Upper

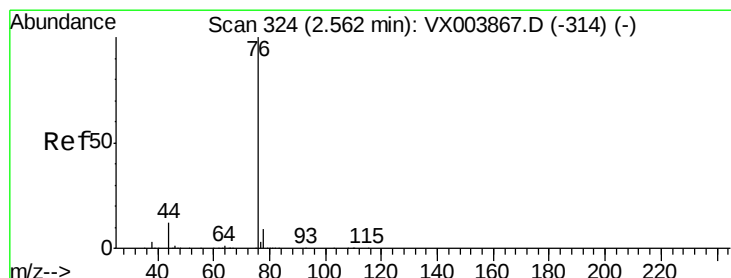
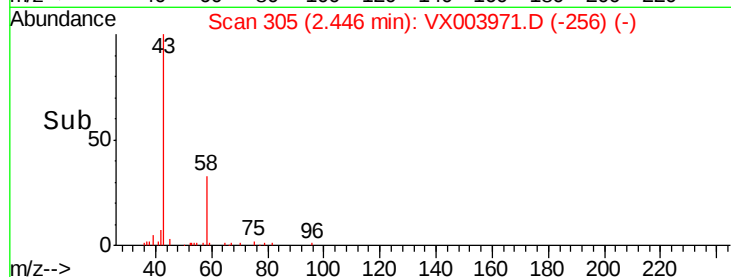
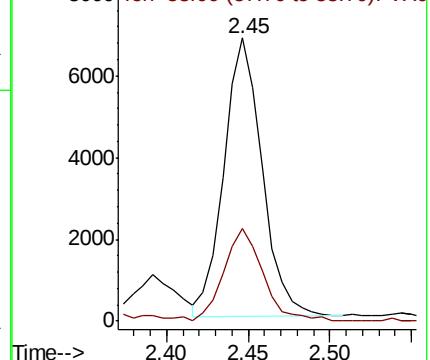
43 100

58 33.4 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.72 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003971.D

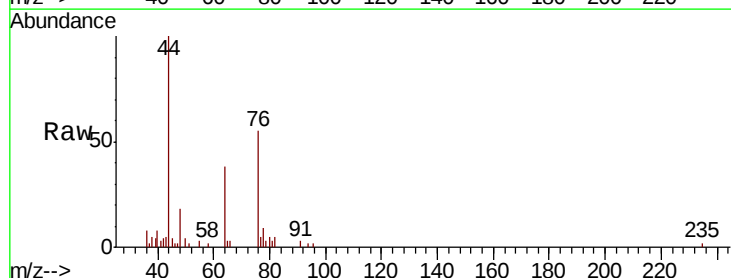
Acq: 10 Aug 2018 12:44

Tgt Ion: 76 Resp: 2756

Ion Ratio Lower Upper

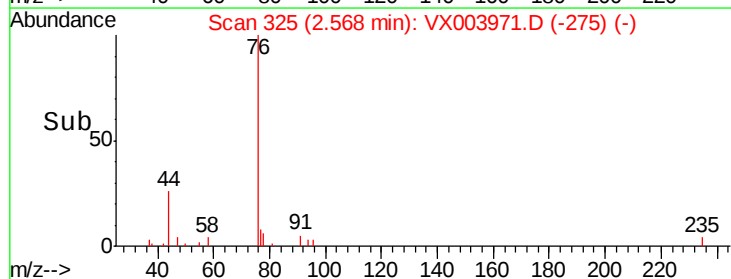
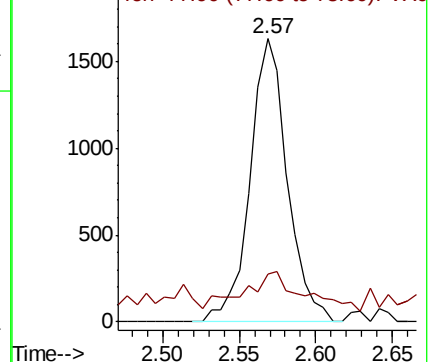
76 100

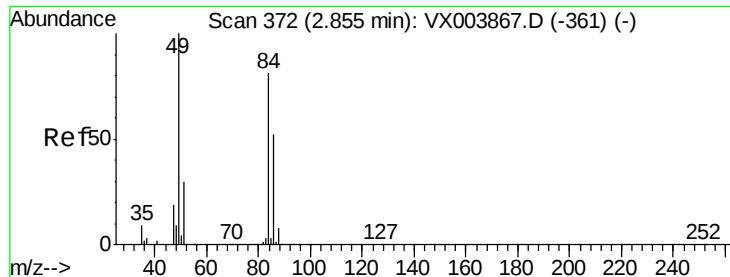
78 10.5 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampleId :

FL-0557

Tot Ion: 84 Resp: 471

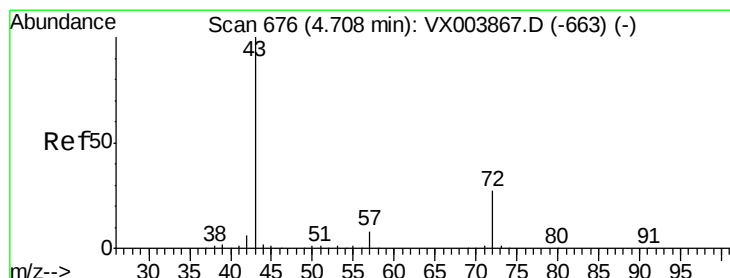
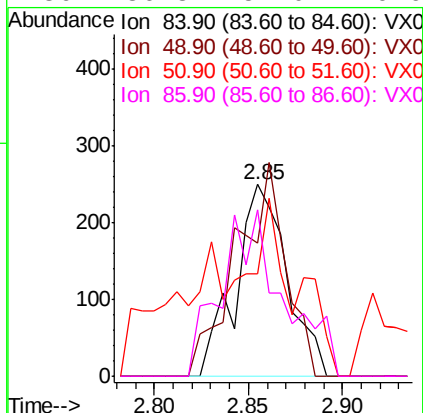
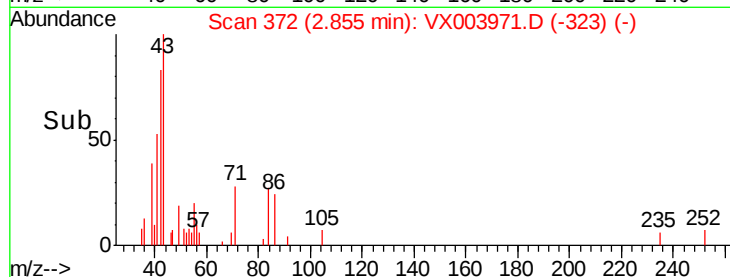
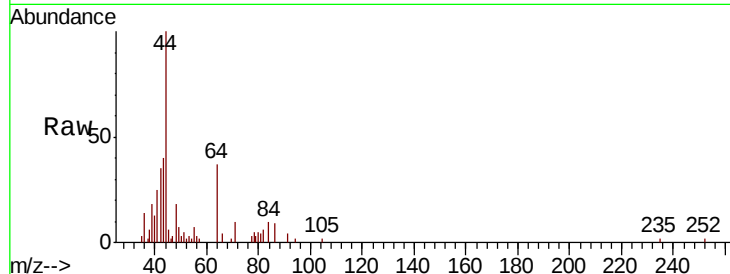
Ion Ratio Lower Upper

84 100

49 69.6 98.9 148.3#

51 53.6 29.9 44.9#

86 86.8 51.0 76.6#



#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX003971.D

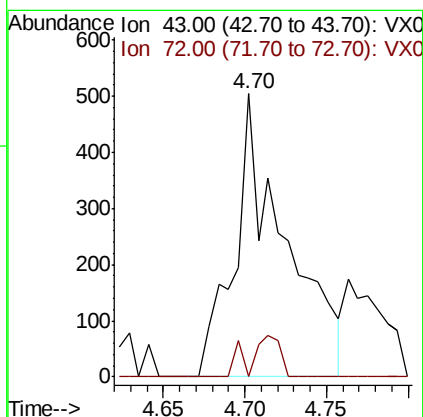
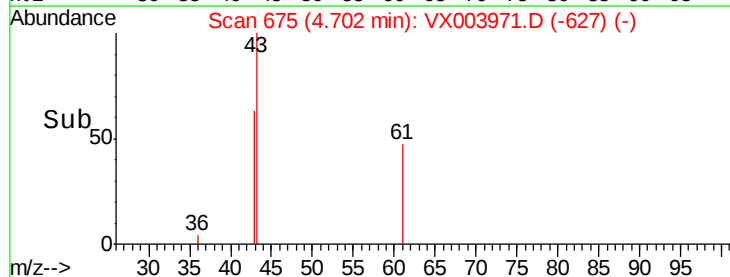
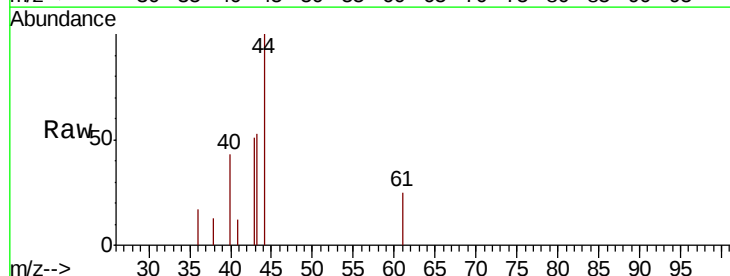
Acq: 10 Aug 2018 12:44

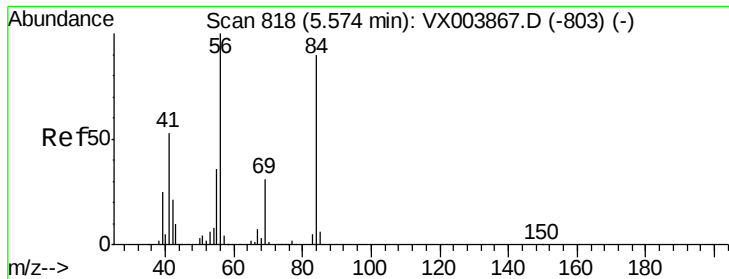
Tgt Ion: 43 Resp: 1086

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#





#31

Cyclohexane

Concen: 0.26 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

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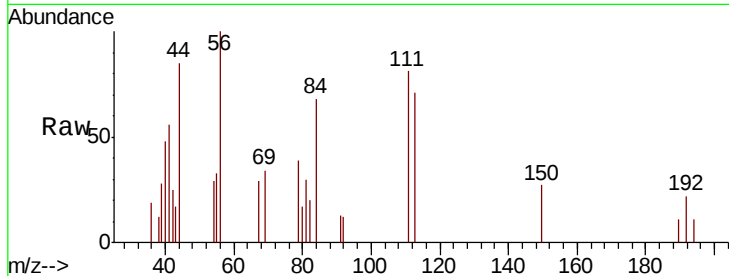
Tot Ion: 56 Resp: 1620

Ion Ratio Lower Upper

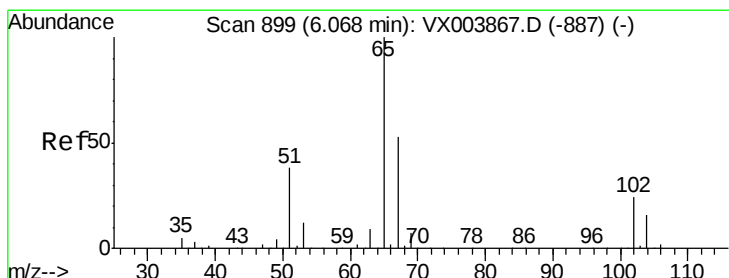
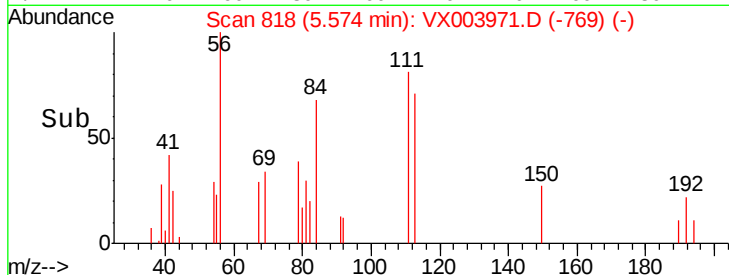
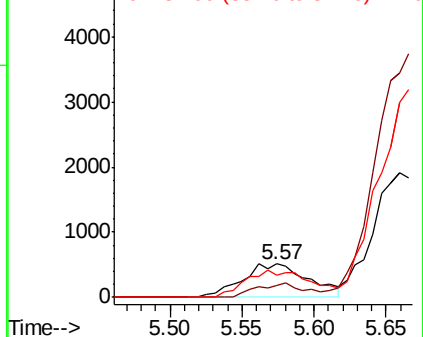
56 100

69 34.4 24.9 37.3

84 68.0 71.7 107.5#



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: 51.78 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003971.D

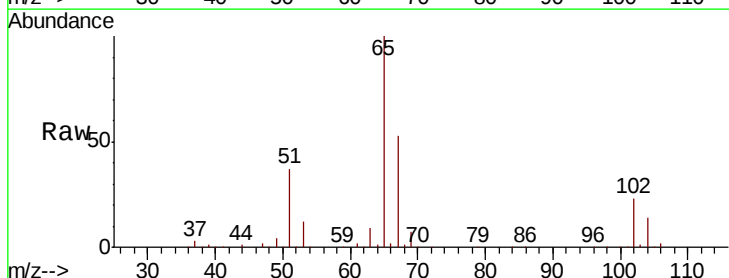
Acq: 10 Aug 2018 12:44

Tgt Ion: 65 Resp: 222664

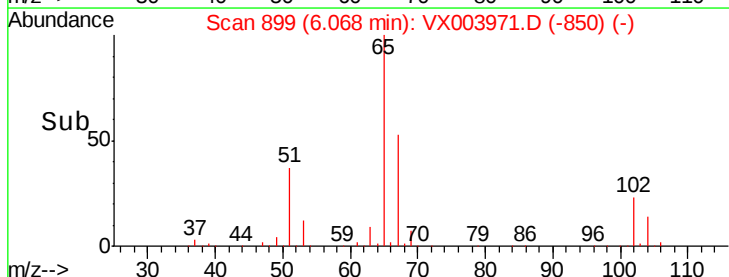
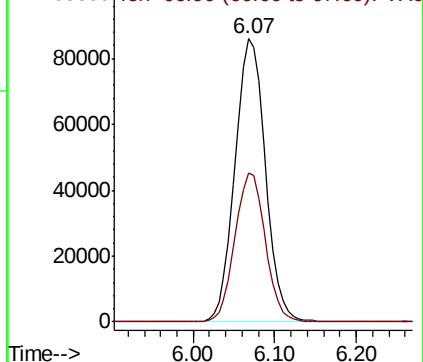
Ion Ratio Lower Upper

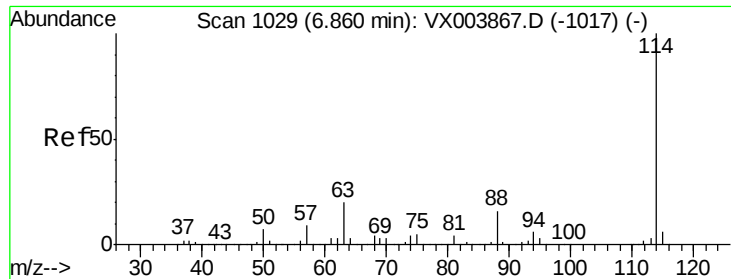
65 100

67 52.6 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

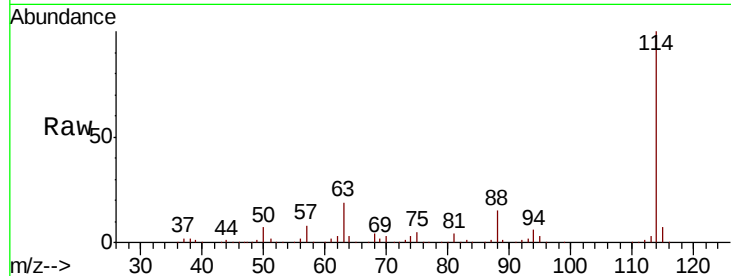




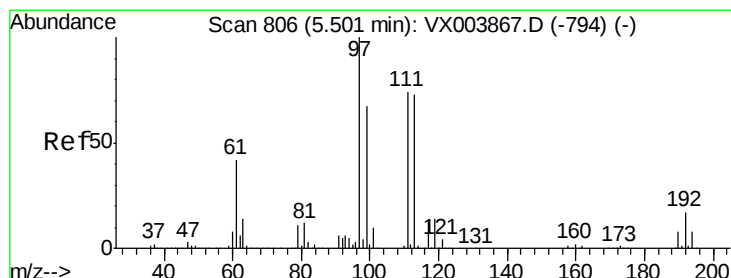
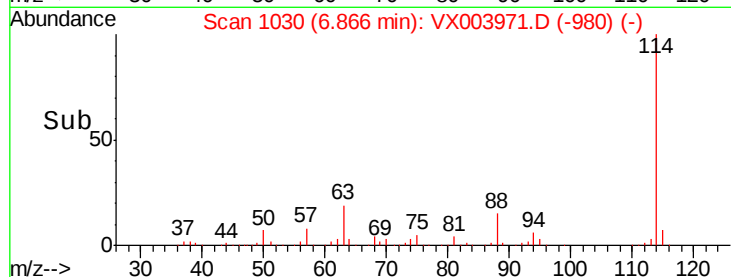
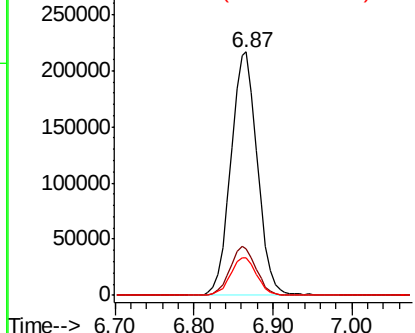
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003971.D
 Acq: 10 Aug 2018 12:44

Instrument :
 MSVOA_X
 ClientSampled :
 FL-0557

Tot Ion:114 Resp: 506409
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.4 0.0 32.0

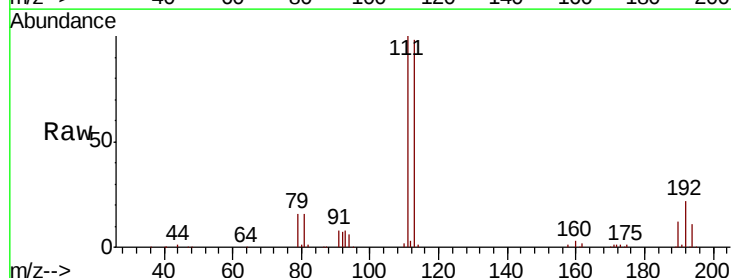


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

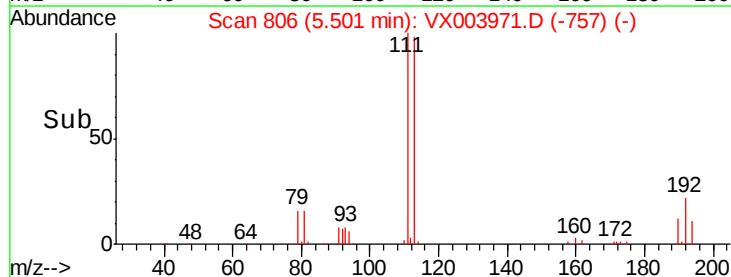
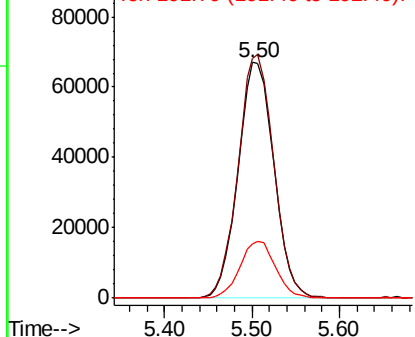


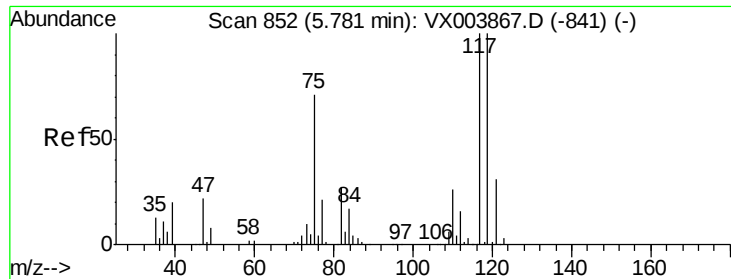
#35
 Dibromofluoromethane
 Concen: 49.86 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX003971.D
 Acq: 10 Aug 2018 12:44

Tgt Ion:113 Resp: 191302
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.0 123.0
 192 23.8 19.0 28.4



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

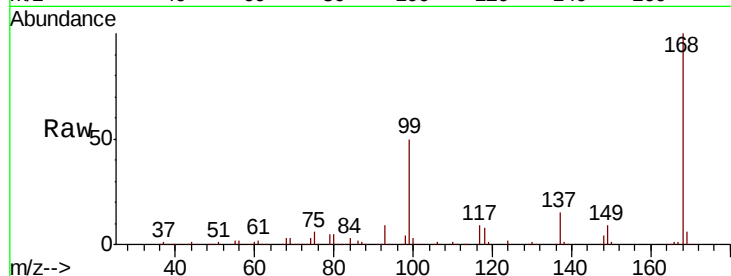




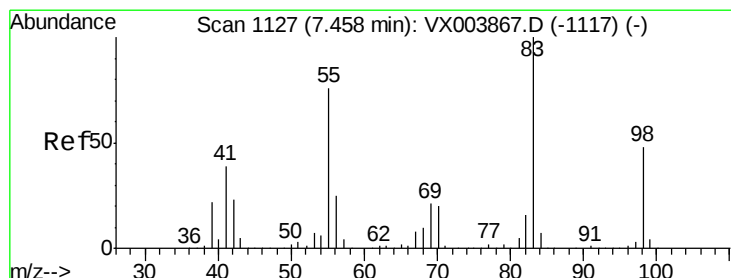
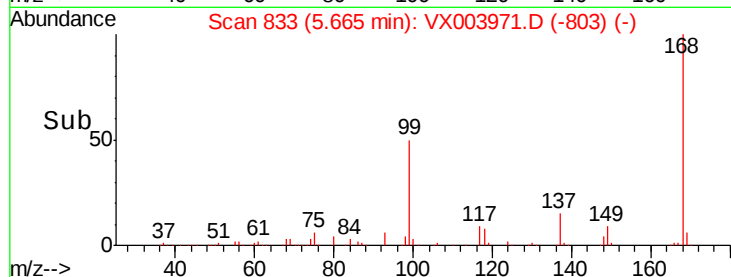
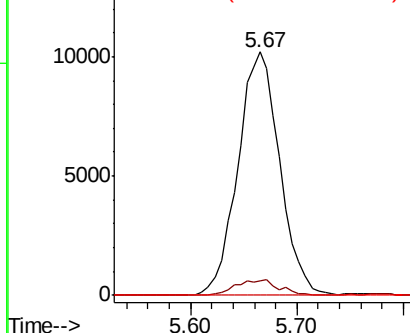
#38
Carbon Tetrachloride
Concen: 5.20 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003971.D
Acq: 10 Aug 2018 12:44

Instrument :
MSVOA_X
ClientSampled :
FL-0557

Tot Ion:117 Resp: 28055
Ion Ratio Lower Upper
117 100
119 6.1 79.5 119.3#
121 0.0 25.0 37.4#

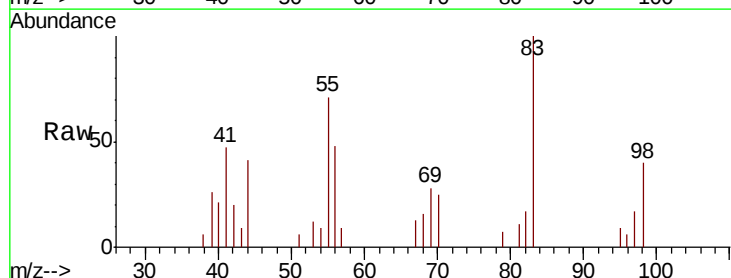


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

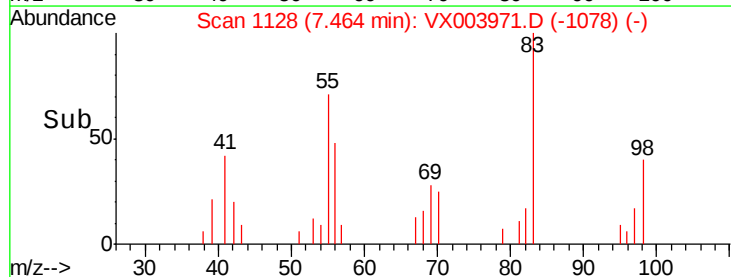
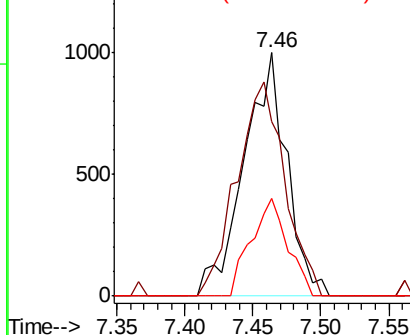


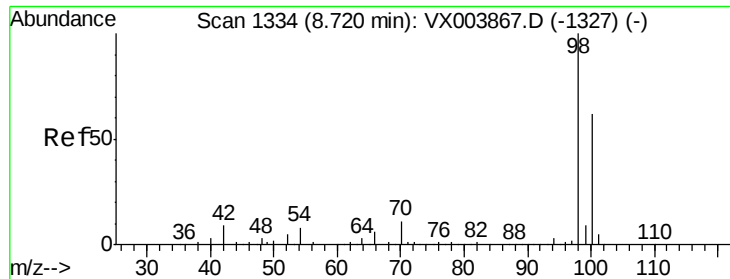
#39
Methylcyclohexane
Concen: 0.33 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VX003971.D
Acq: 10 Aug 2018 12:44

Tgt Ion: 83 Resp: 2202
Ion Ratio Lower Upper
83 100
55 71.4 61.0 91.6
98 40.1 38.6 57.8



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: 47.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampled :

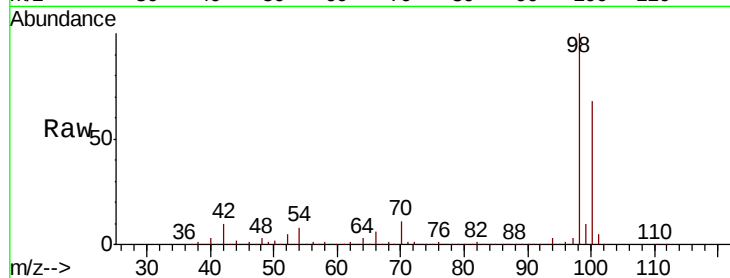
FL-0557

Tot Ion: 98 Resp: 714502

Ion Ratio Lower Upper

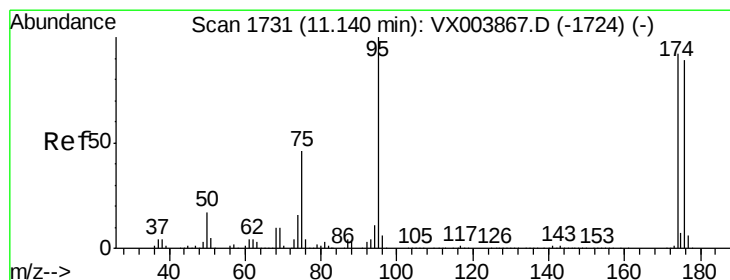
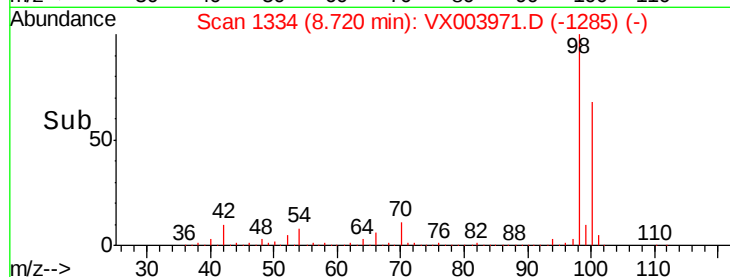
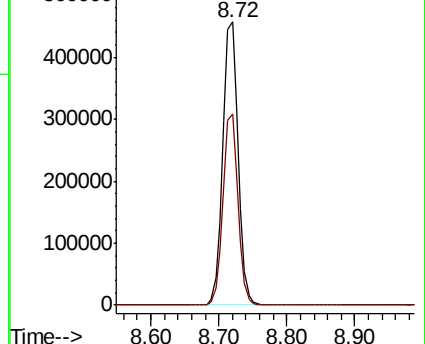
98 100

100 66.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 51.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

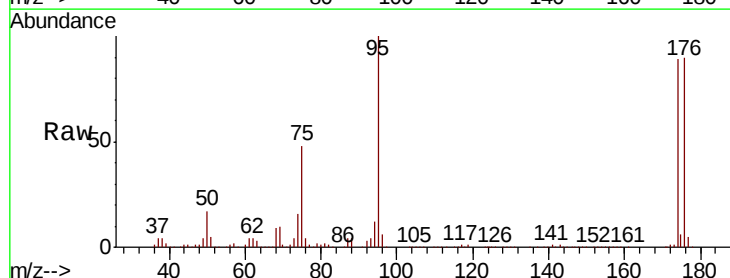
Tgt Ion: 95 Resp: 250514

Ion Ratio Lower Upper

95 100

174 90.8 0.0 182.8

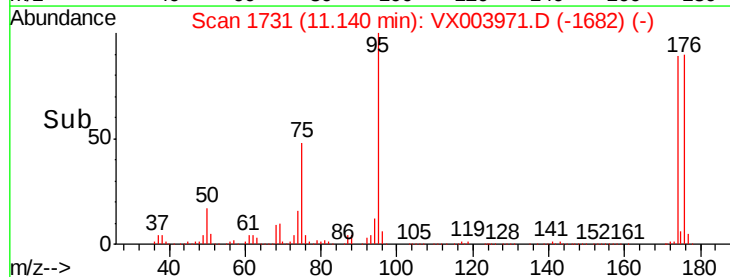
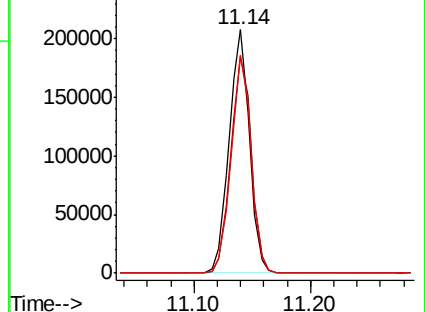
176 88.6 0.0 179.0

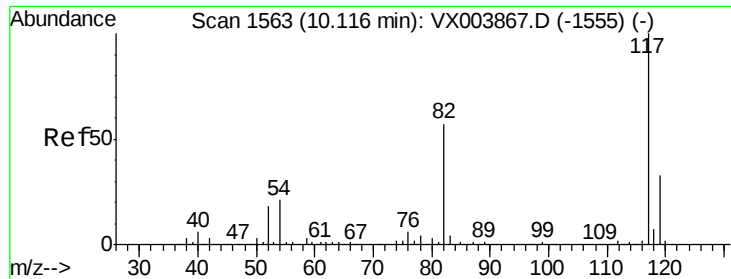


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

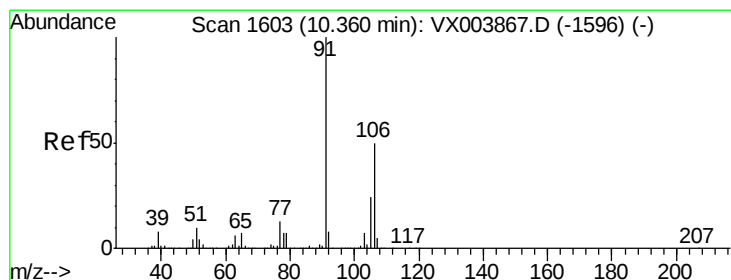
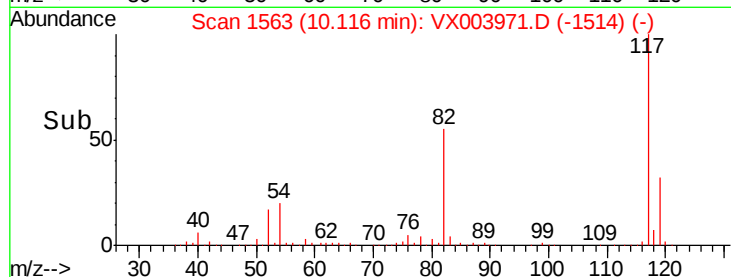
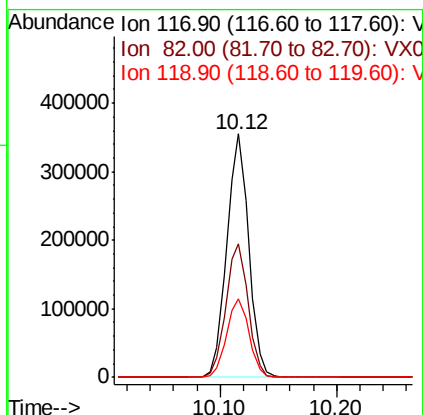
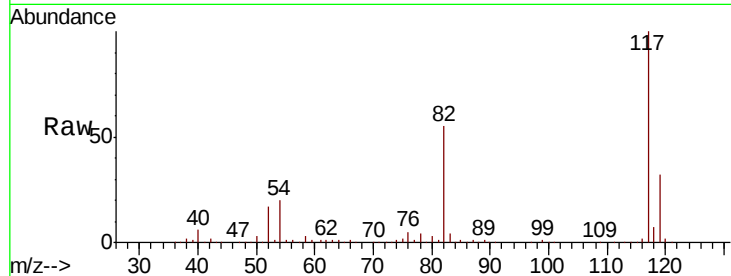




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003971.D
Acq: 10 Aug 2018 12:44

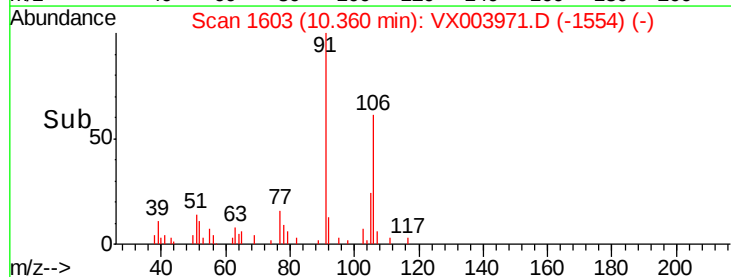
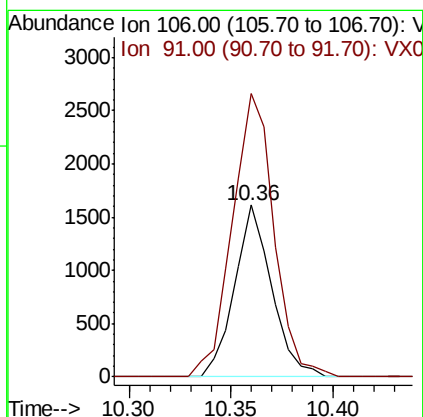
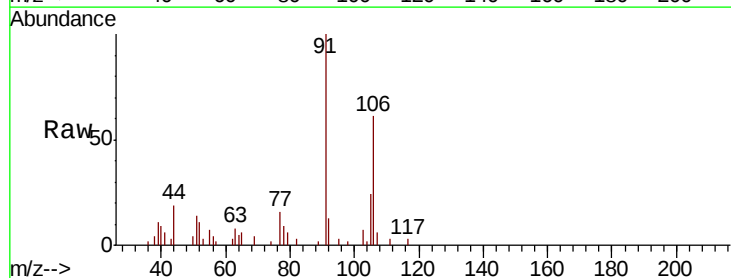
Instrument :
MSVOA_X
ClientSampleId :
FL-0557

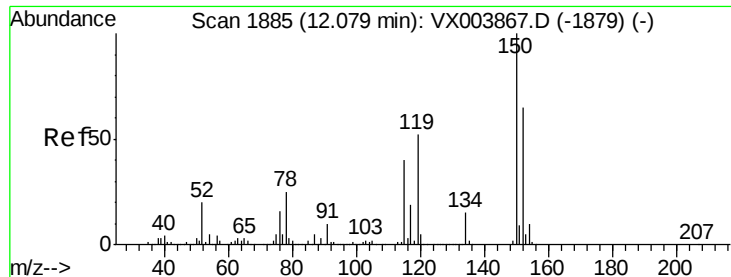
Tot Ion:117 Resp: 463891
Ion Ratio Lower Upper
117 100
82 54.8 45.4 68.0
119 32.1 26.6 40.0



#68
m/p-Xylenes
Concen: 0.26 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX003971.D
Acq: 10 Aug 2018 12:44

Tgt Ion:106 Resp: 2032
Ion Ratio Lower Upper
106 100
91 185.0 162.3 243.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampled :

FL-0557

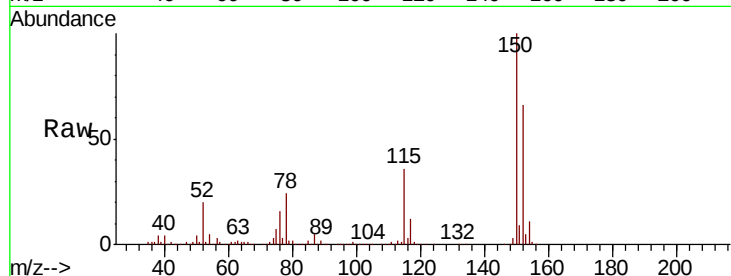
Tot Ion:152 Resp: 263417

Ion Ratio Lower Upper

152 100

115 53.7 39.1 117.3

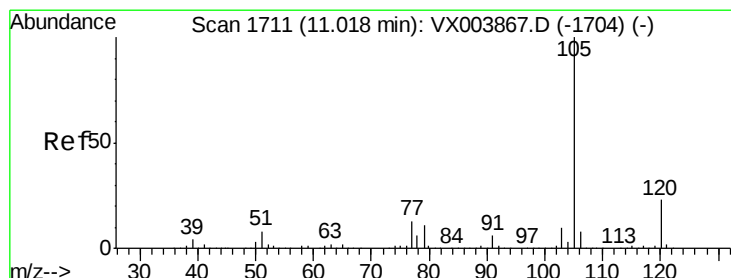
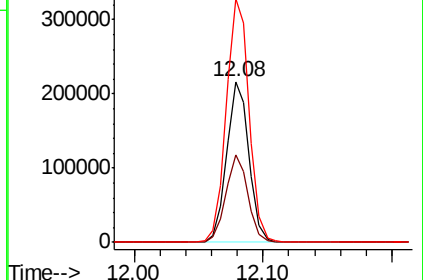
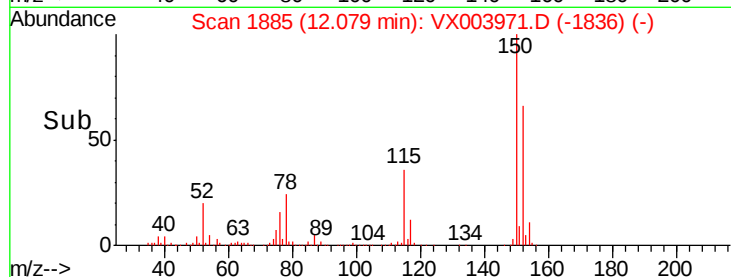
150 155.2 0.0 349.2



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



#73

Isopropylbenzene

Concen: 0.20 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX003971.D

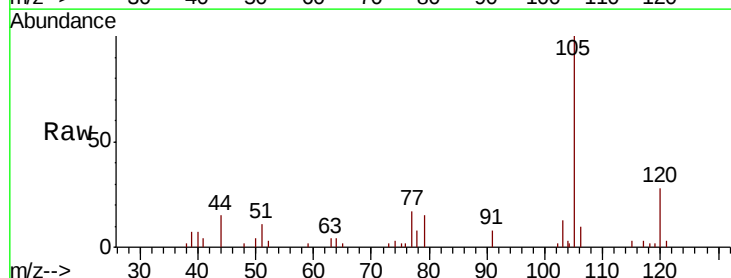
Acq: 10 Aug 2018 12:44

Tgt Ion:105 Resp: 3899

Ion Ratio Lower Upper

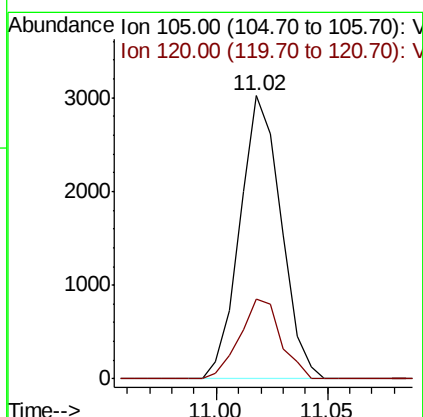
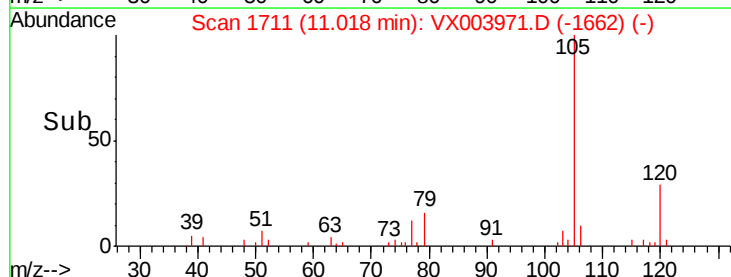
105 100

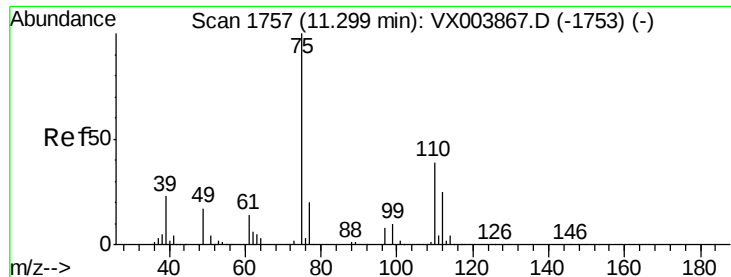
120 27.9 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 20.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampled :

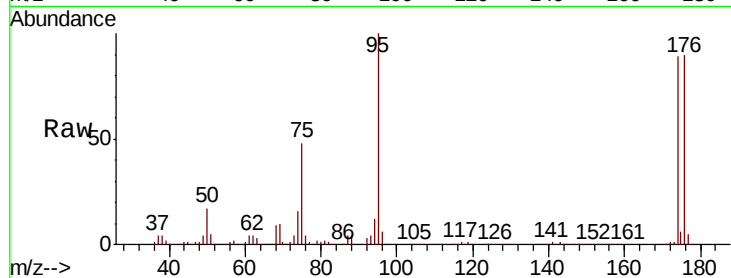
FL-0557

Tot Ion: 75 Resp: 120672

Ion Ratio Lower Upper

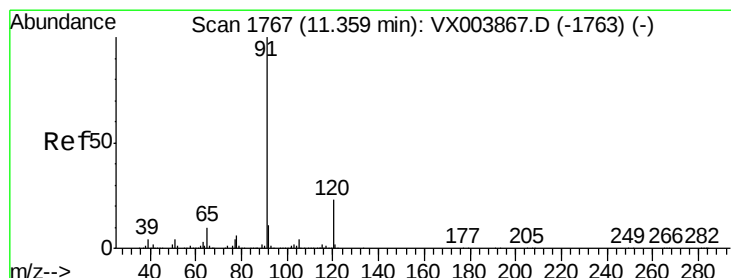
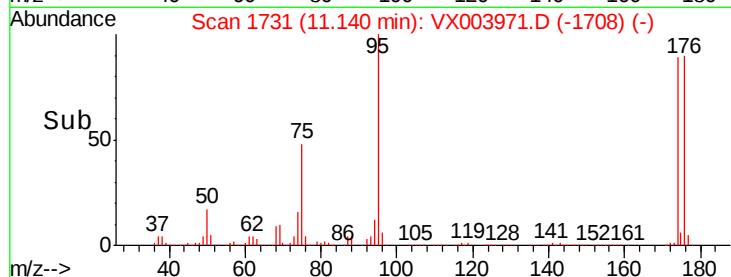
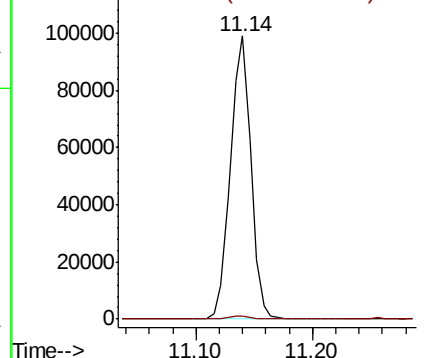
75 100

77 1.2 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#78

n-propylbenzene

Concen: 0.21 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX003971.D

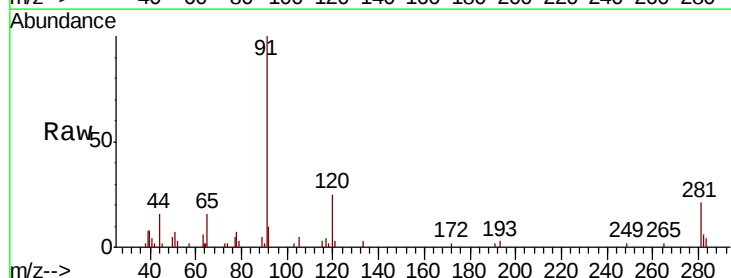
Acq: 10 Aug 2018 12:44

Tgt Ion: 91 Resp: 4511

Ion Ratio Lower Upper

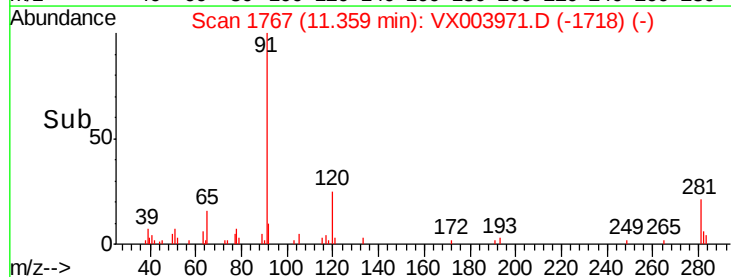
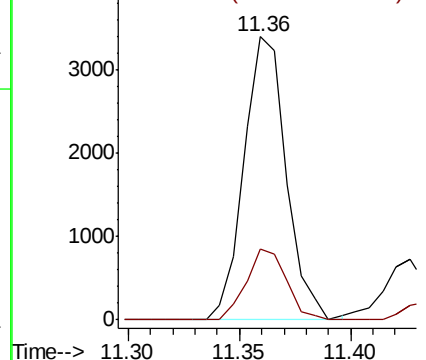
91 100

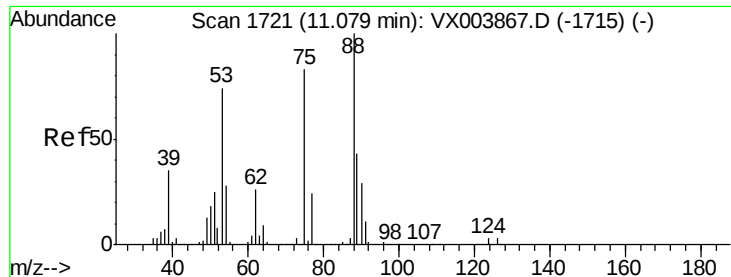
120 23.8 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 56.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampled :

FL-0557

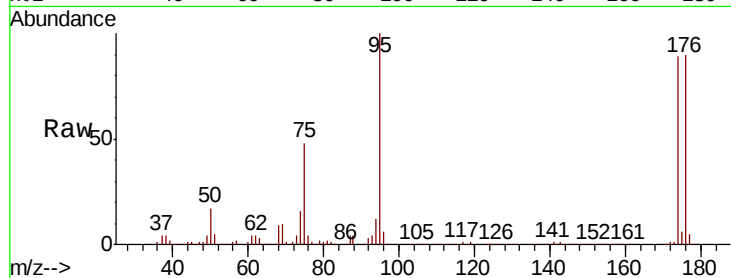
Tot Ion: 75 Resp: 120672

Ion Ratio Lower Upper

75 100

53 0.1 80.3 120.5#

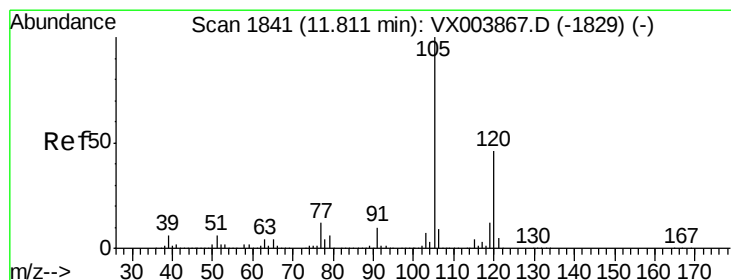
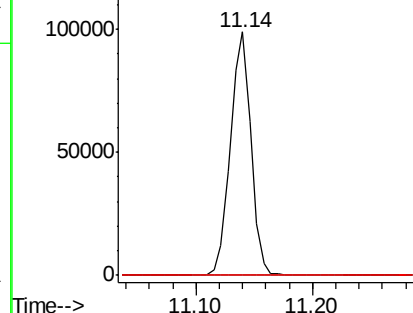
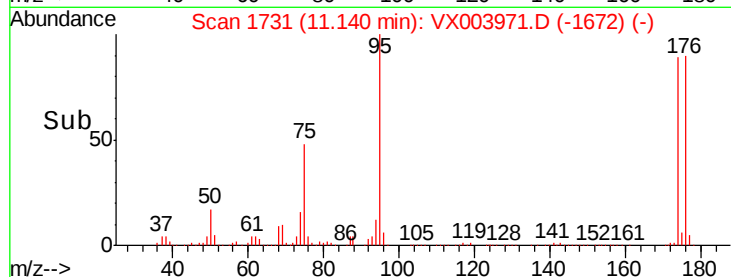
89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 1.23 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX003971.D

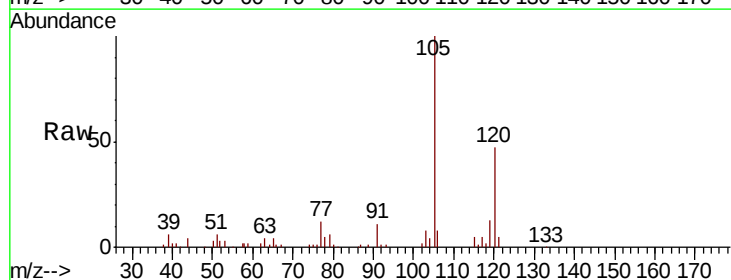
Acq: 10 Aug 2018 12:44

Tgt Ion:105 Resp: 19684

Ion Ratio Lower Upper

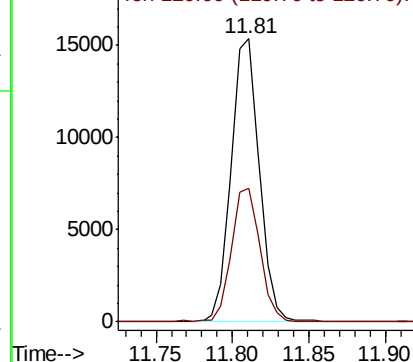
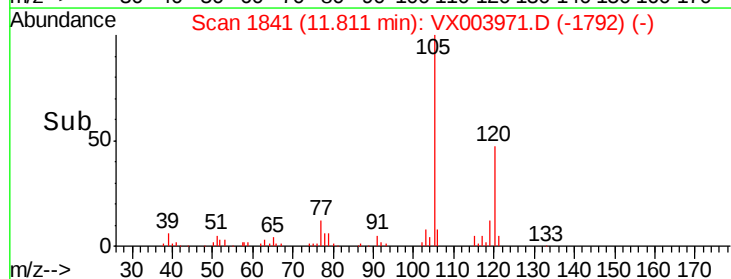
105 100

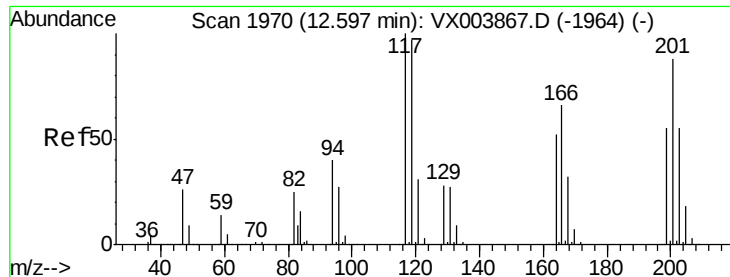
120 47.7 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 0.20 ug/l

RT: 12.58 min Scan# 1968

Delta R.T. -0.01 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

Instrument :

MSVOA_X

ClientSampleId :

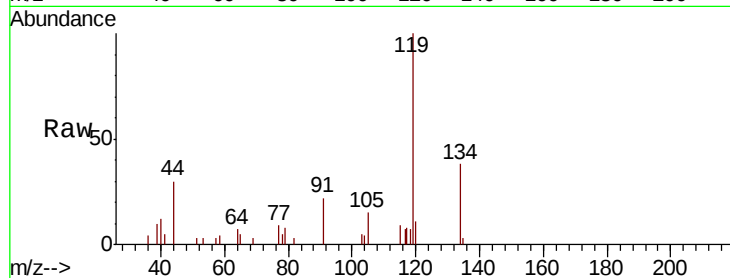
FL-0557

Tot Ion:117 Resp: 544

Ion Ratio Lower Upper

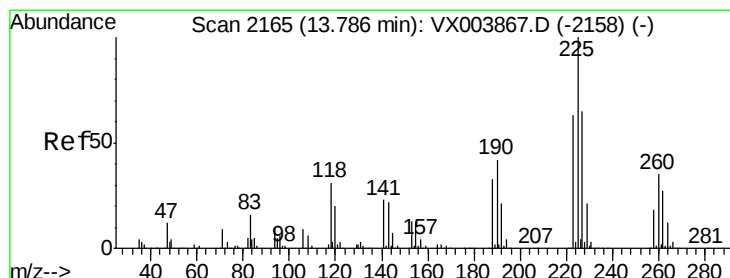
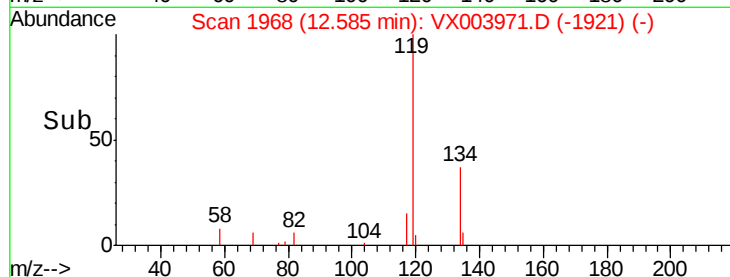
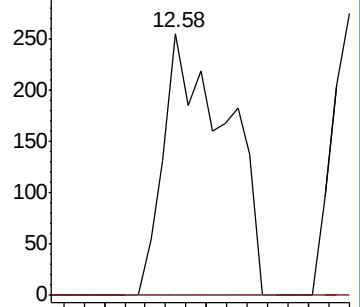
117 100

201 0.0 46.1 138.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#94

Hexachlorobutadiene

Concen: 0.62 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003971.D

Acq: 10 Aug 2018 12:44

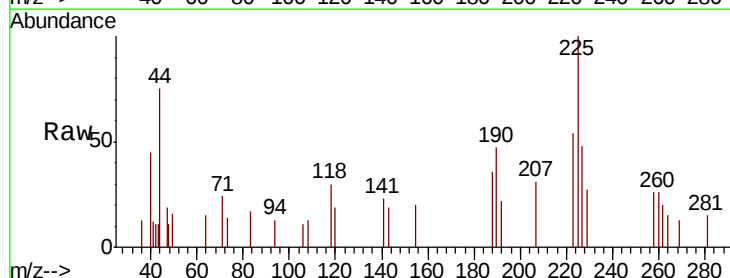
Tgt Ion:225 Resp: 576

Ion Ratio Lower Upper

225 100

223 69.1 31.4 94.0

227 65.3 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

