

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002559.D
 Acq On : 14 Jun 2018 18:32
 Operator : JC/MD
 Sample : PB110227ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 01:34:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257624	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	369253	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	344348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198333	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	175716	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
35) Dibromofluoromethane	5.51	113	135033	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
50) Toluene-d8	8.72	98	529514	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
62) 4-Bromofluorobenzene	11.14	95	191807	44.69	ug/l	0.00
Spiked Amount			Recovery	=	89.38%	

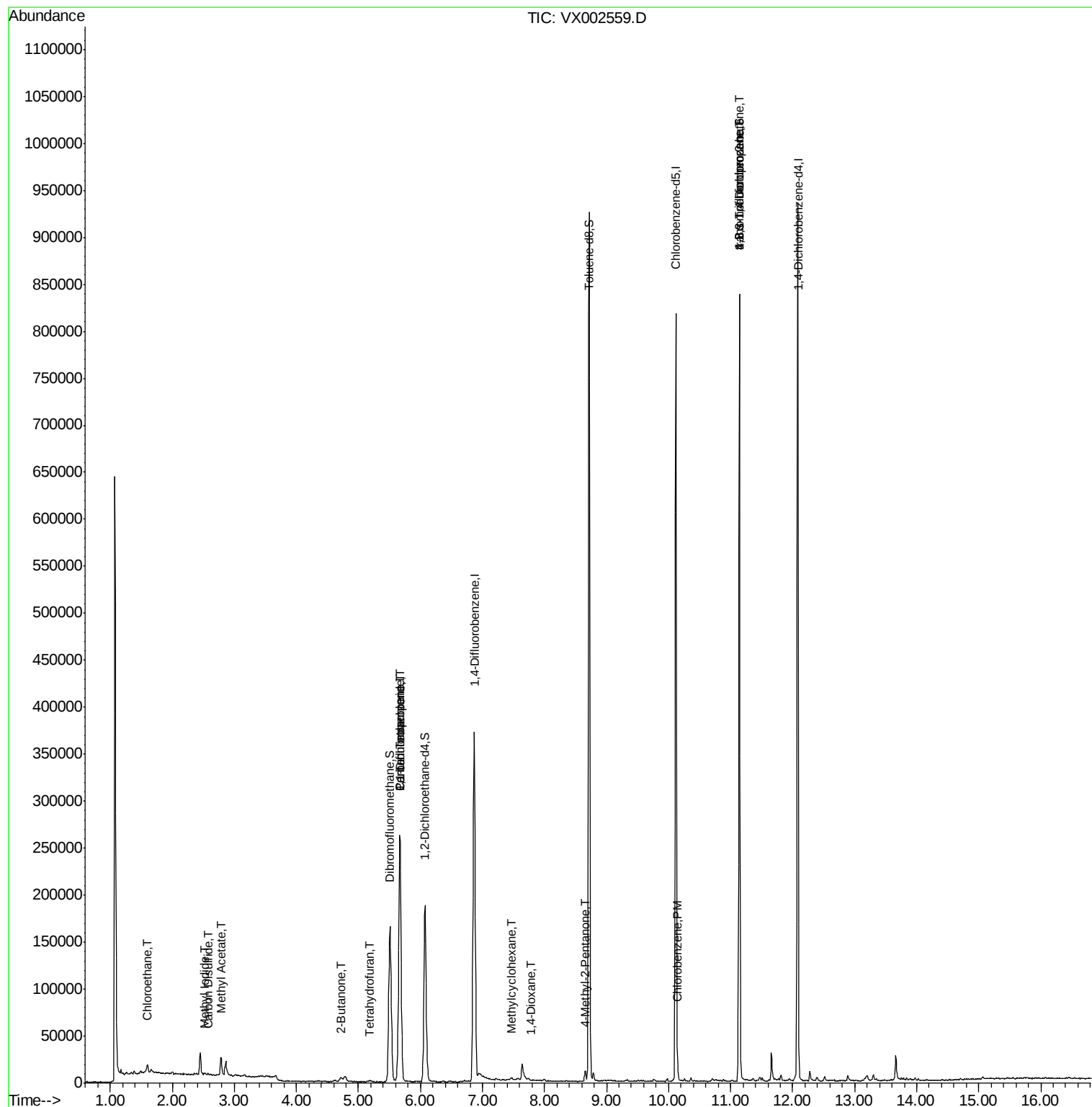
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	844	Below Cal	#	84
5) Bromomethane	1.66	94	2145	Below Cal		98
6) Chloroethane	1.59	64	5820	2.67	ug/l #	57
8) Diethyl Ether	2.26	74	130	Below Cal		86
10) Methyl Iodide	2.52	142	2343	0.60	ug/l	98
11) Tert butyl alcohol	3.07	59	534	Below Cal	#	73
13) Acrolein	2.31	56	258	Below Cal	#	17
15) Acrylonitrile	3.15	53	184	Below Cal	#	1
16) Acetone	2.45	43	26870	Below Cal		98
17) Carbon Disulfide	2.57	76	1633	0.23	ug/l #	44
18) Methyl Acetate	2.78	43	23126	3.77	ug/l	95
19) Methyl tert-butyl Ether	3.20	73	154	Below Cal	#	89
20) Methylene Chloride	2.86	84	6190	Below Cal		95
22) Diisopropyl ether	3.88	45	119	Below Cal	#	45
25) 2-Butanone	4.71	43	8476	3.36	ug/l	98
28) Bromochloromethane	5.03	49	22	Below Cal	#	5
29) Tetrahydrofuran	5.17	42	948	0.58	ug/l #	63
36) 1,1-Dichloropropene	5.67	75	17995	4.64	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23852	5.87	ug/l #	14
39) Methylcyclohexane	7.46	83	731	0.41	ug/l #	86
49) 1,4-Dioxane	7.77	88	19	0.26	ug/l #	52
51) 4-Methyl-2-Pentanone	8.65	43	6782	1.37	ug/l	97
65) Chlorobenzene	10.15	112	3779	0.44	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	101578	23.34	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	101578	81.82	ug/l #	7

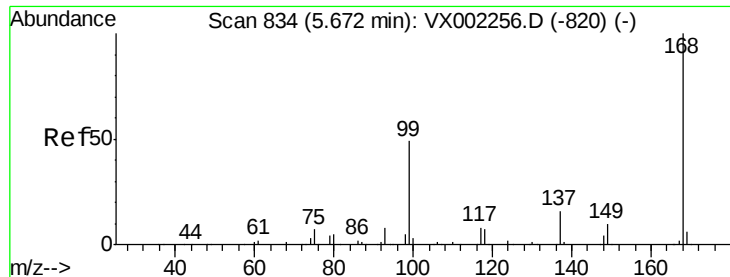
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061418\
Data File : VX002559.D
Acq On : 14 Jun 2018 18:32
Operator : JC/MD
Sample : PB110227ZHE#03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 15 01:34:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

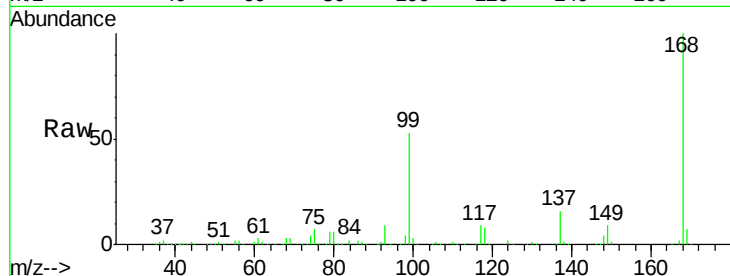
ClientSampleId :

Tot Ion:168 Resp: 257624

Ion Ratio Lower Upper

168 100

99 52.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

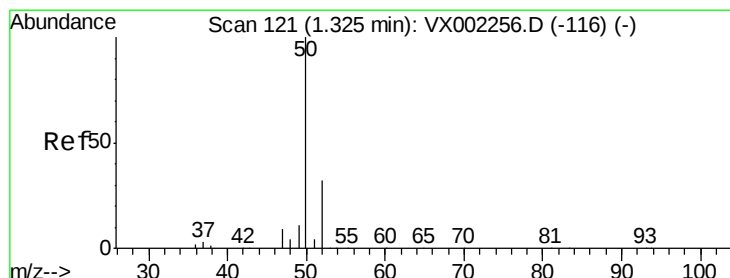
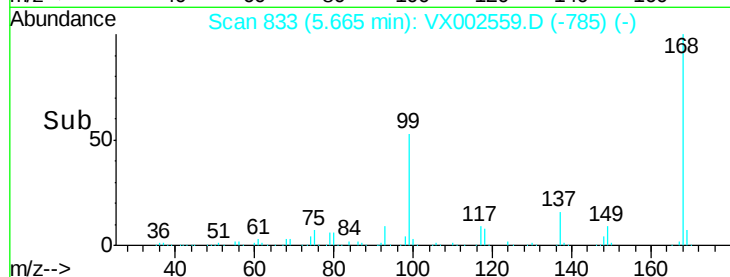
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002559.D

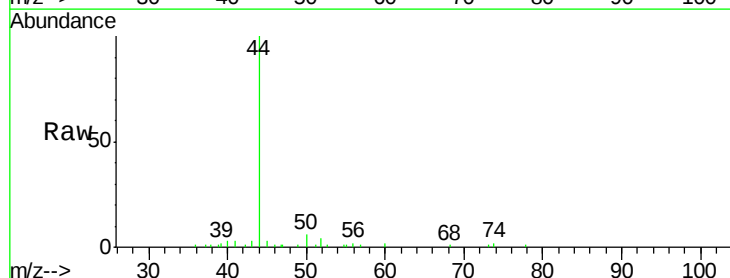
Acq: 14 Jun 2018 18:32

Tgt Ion: 50 Resp: 844

Ion Ratio Lower Upper

50 100

52 40.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

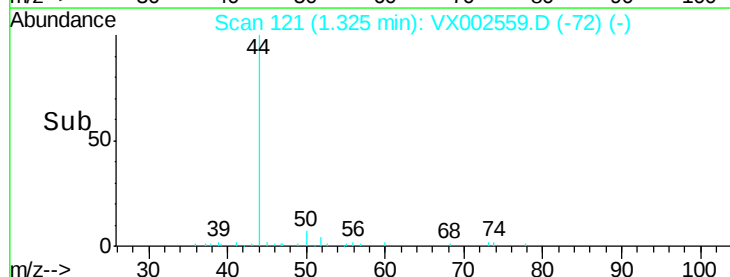
300

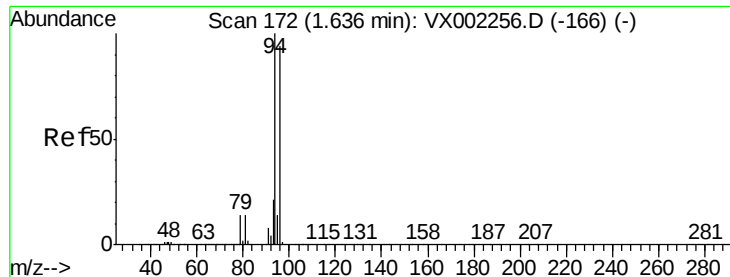
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

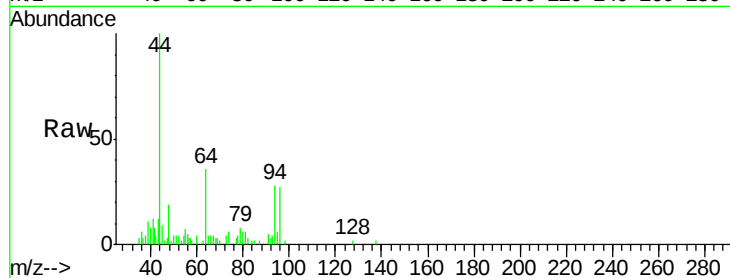
ClientSampled :

Tot Ion: 94 Resp: 2145

Ion Ratio Lower Upper

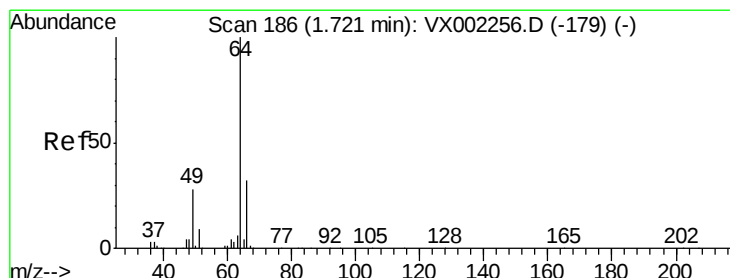
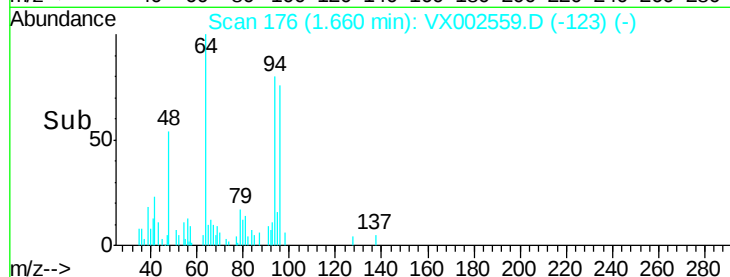
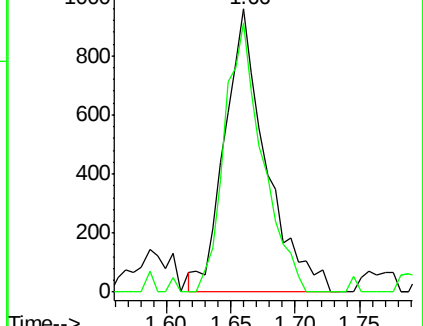
94 100

96 95.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.67 ug/l

RT: 1.59 min Scan# 165

Delta R.T. -0.13 min

Lab File: VX002559.D

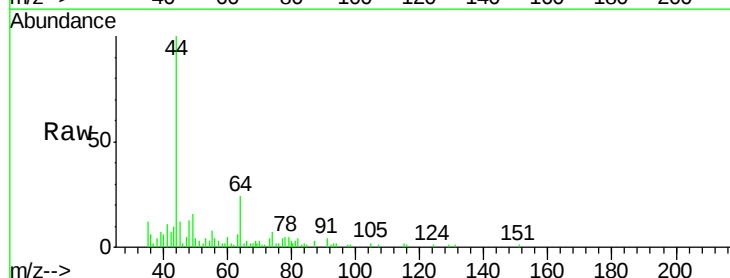
Acq: 14 Jun 2018 18:32

Tgt Ion: 64 Resp: 5820

Ion Ratio Lower Upper

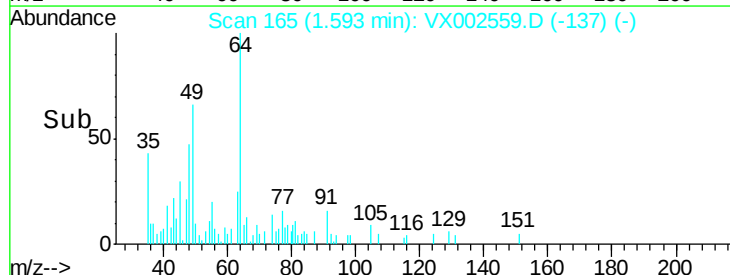
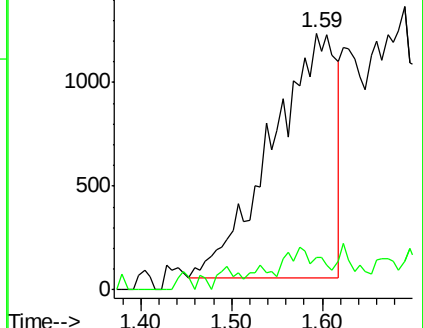
64 100

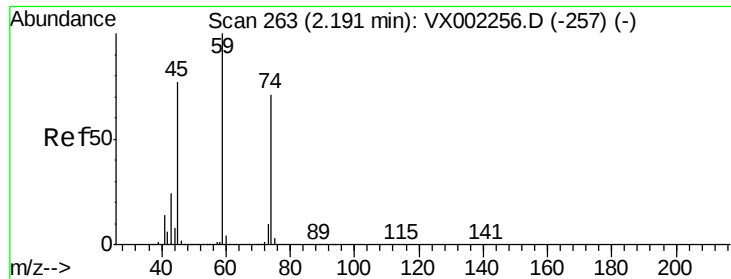
66 7.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.26 min Scan# 274

Delta R.T. 0.07 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

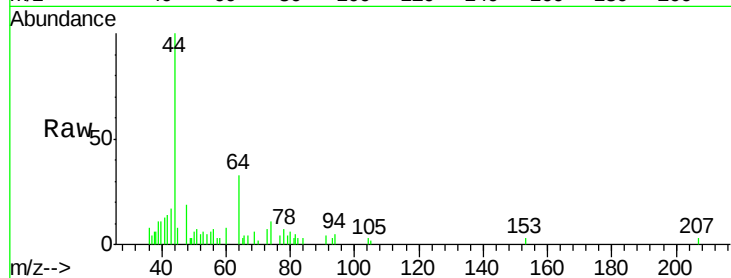
ClientSampleId :

Tot Ion: 74 Resp: 130

Ion Ratio Lower Upper

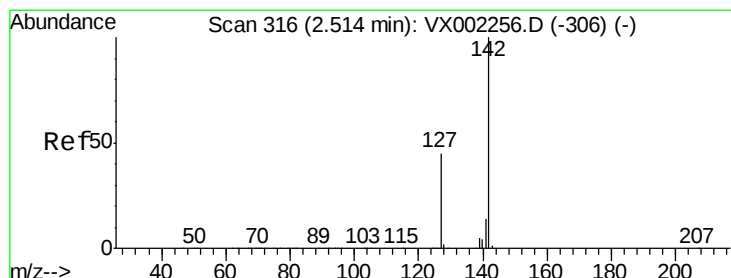
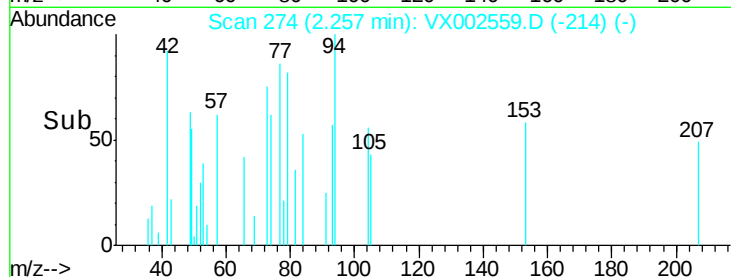
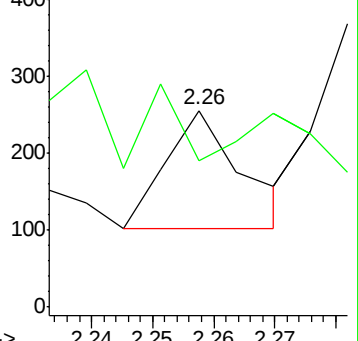
74 100

45 92.3 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.60 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

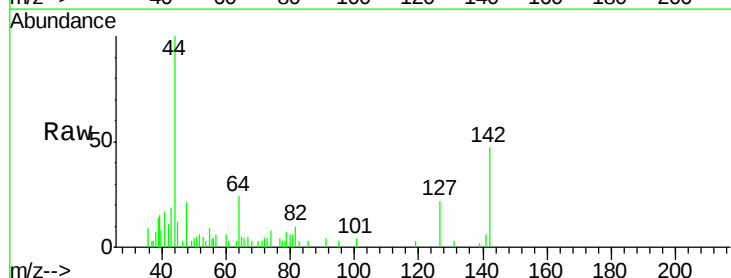
Tgt Ion: 142 Resp: 2343

Ion Ratio Lower Upper

142 100

127 44.5 36.6 55.0

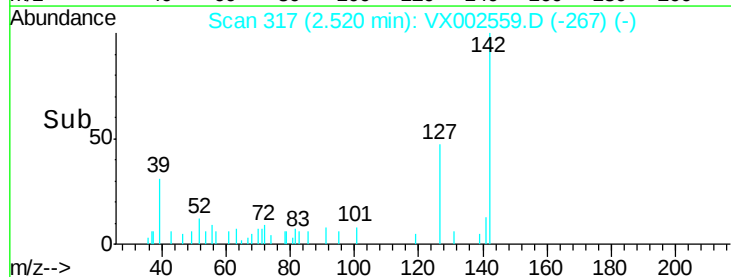
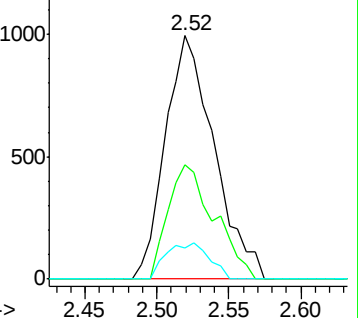
141 13.0 11.3 16.9

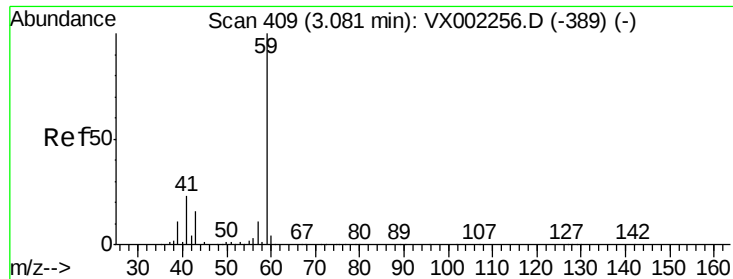


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



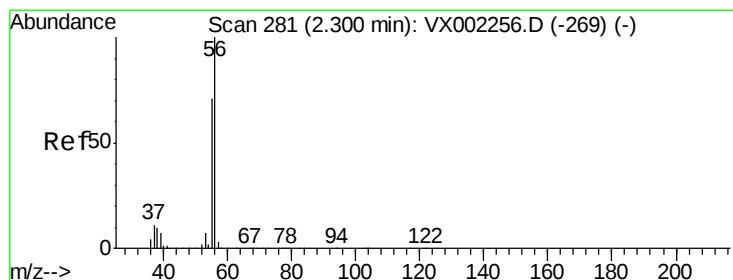
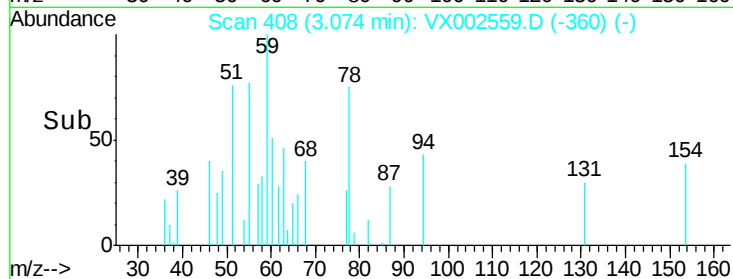
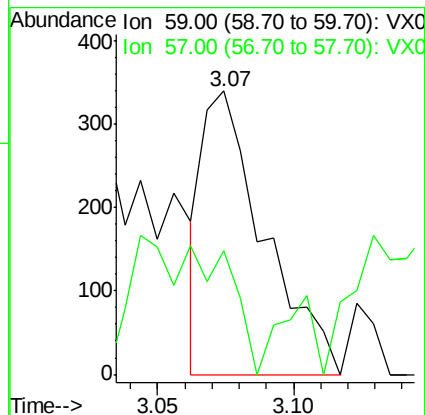
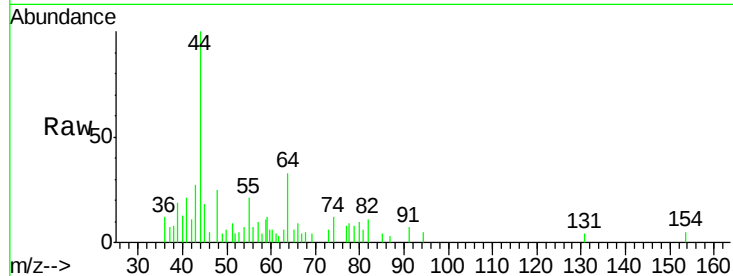


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Instrument :
MSVOA_X
ClientSampled :

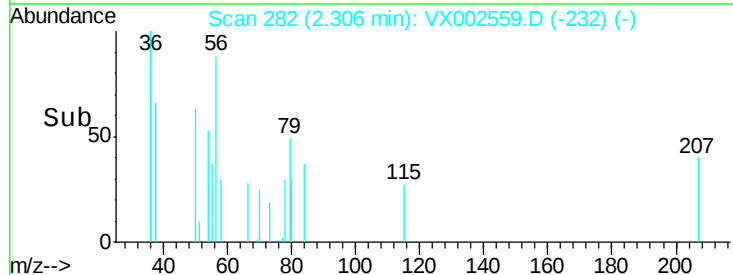
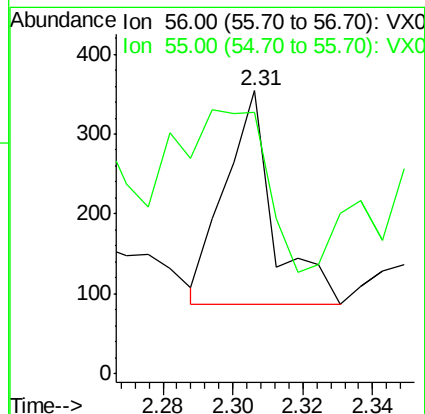
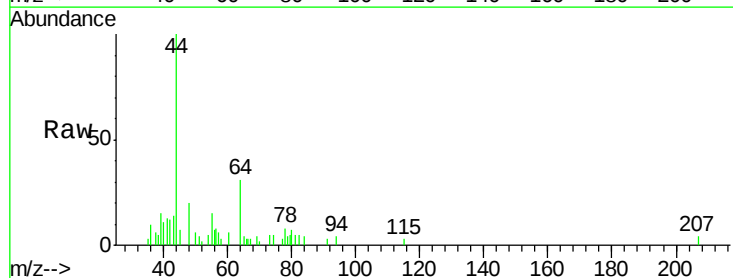
Tot Ion: 59 Resp: 534
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

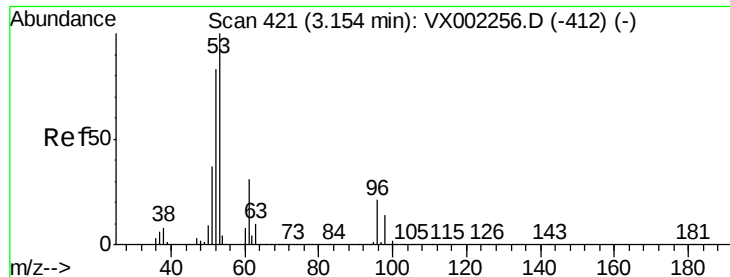


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Tgt Ion: 56 Resp: 258
Ion Ratio Lower Upper
56 100
55 139.9 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

ClientSampleId :

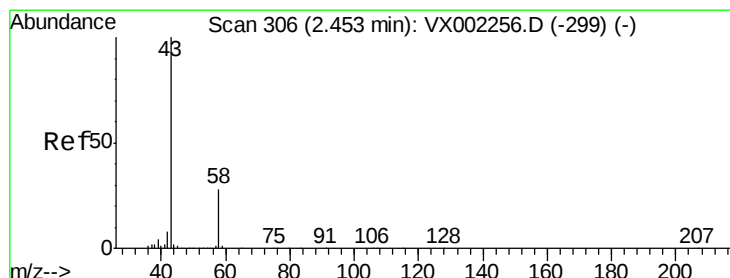
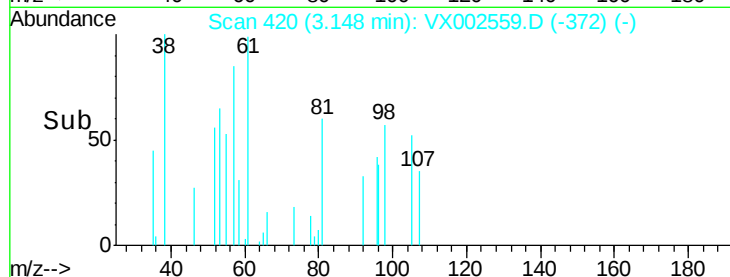
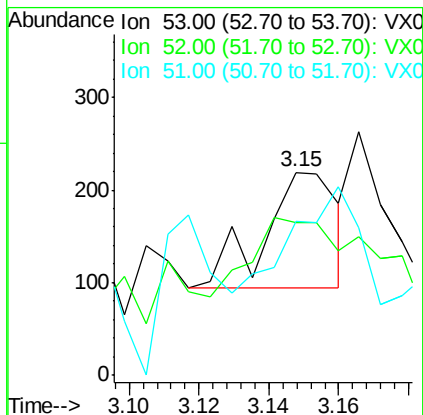
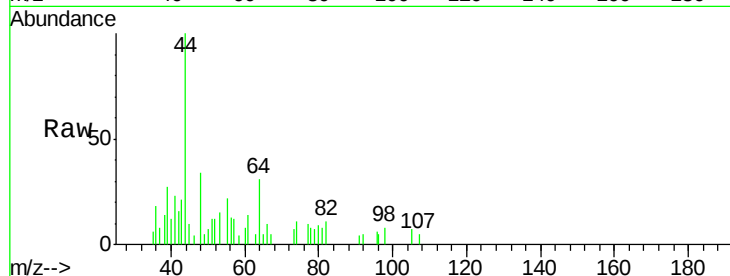
Tot Ion: 53 Resp: 184

Ion Ratio Lower Upper

53 100

52 303.8 66.7 100.1#

51 104.9 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002559.D

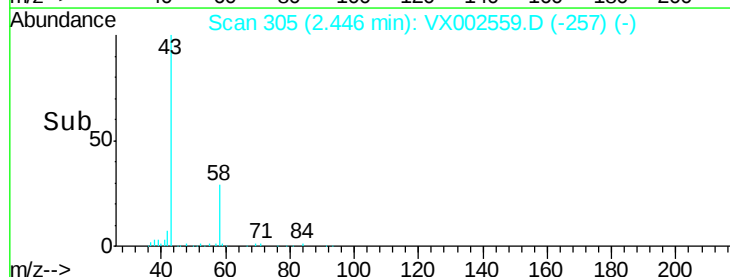
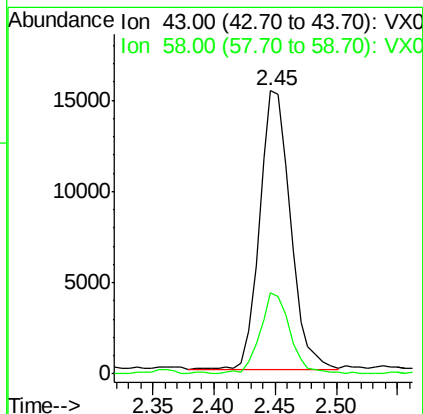
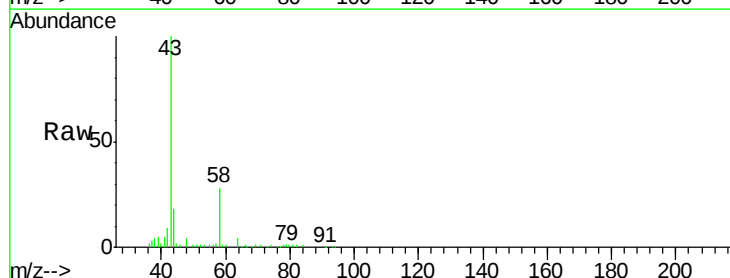
Acq: 14 Jun 2018 18:32

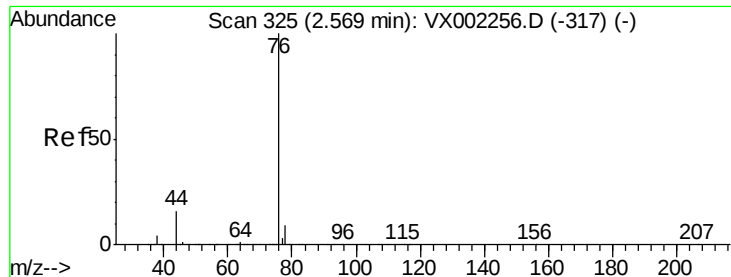
Tgt Ion: 43 Resp: 26870

Ion Ratio Lower Upper

43 100

58 28.6 22.1 33.1





#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

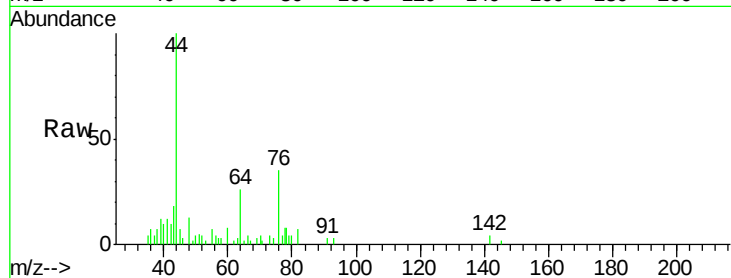
ClientSampleId :

Tot Ion: 76 Resp: 1633

Ion Ratio Lower Upper

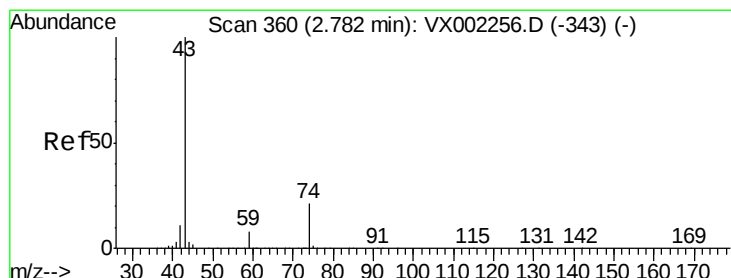
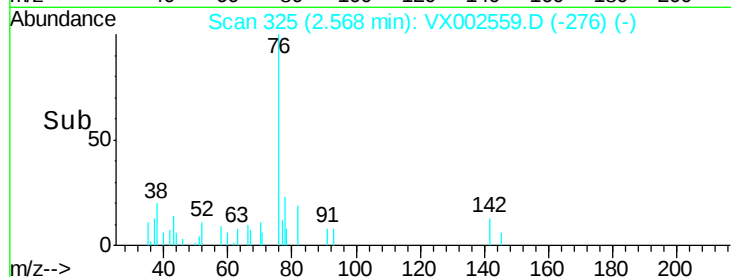
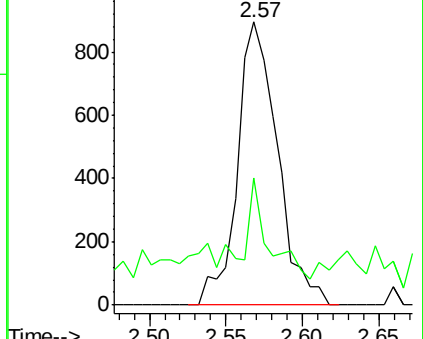
76 100

78 28.5 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 3.77 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002559.D

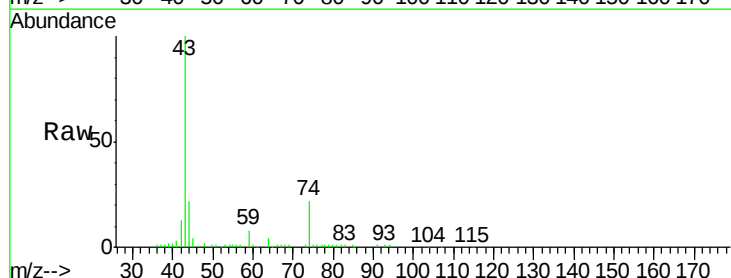
Acq: 14 Jun 2018 18:32

Tgt Ion: 43 Resp: 23126

Ion Ratio Lower Upper

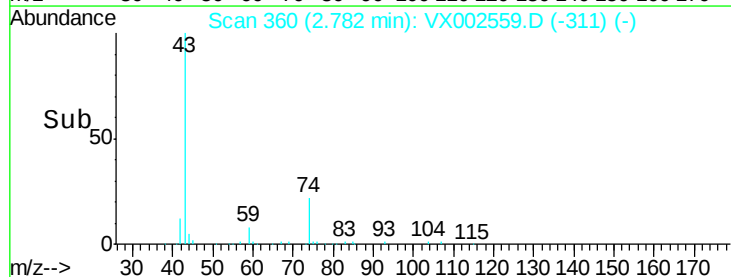
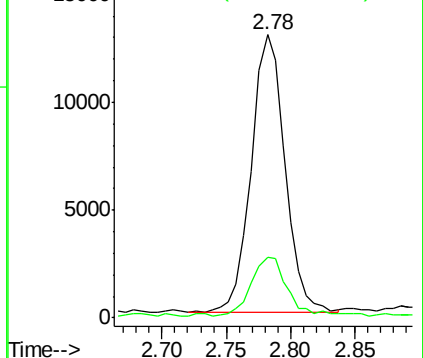
43 100

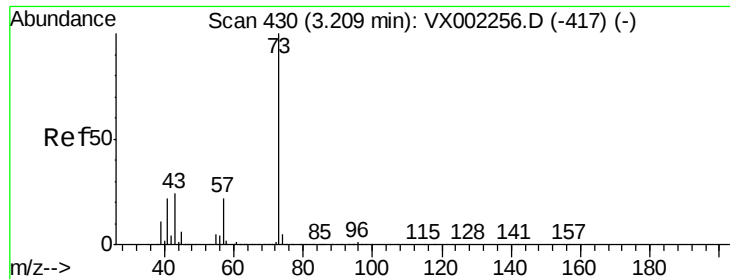
74 23.1 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

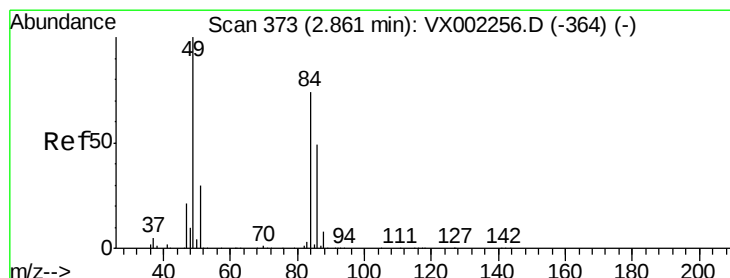
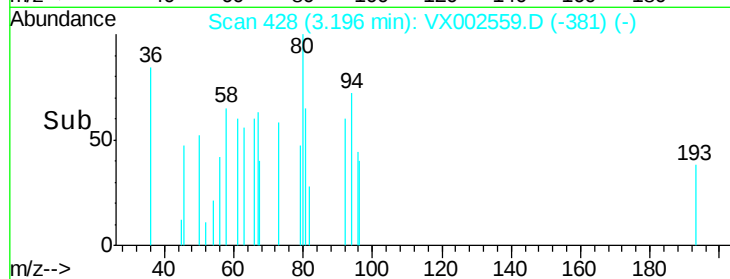
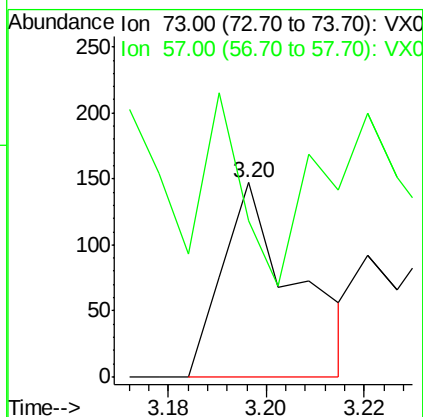
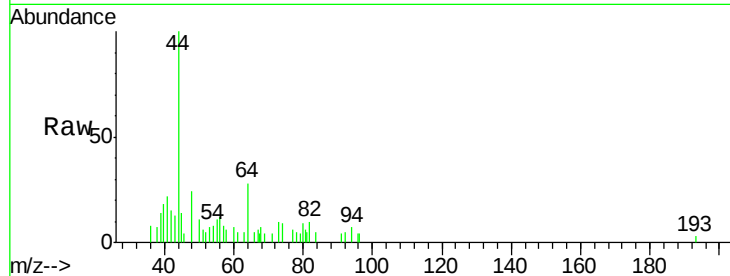




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

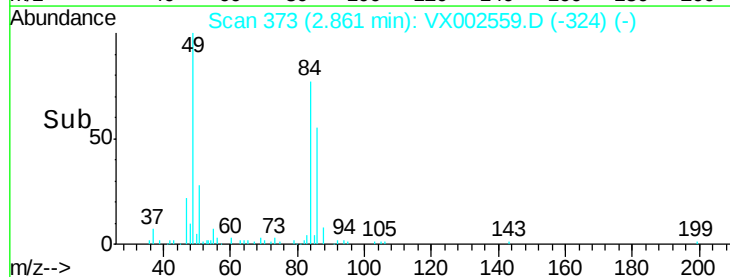
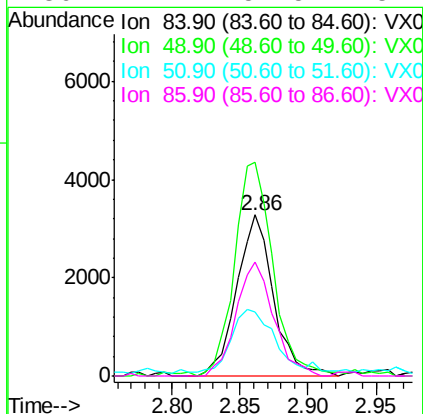
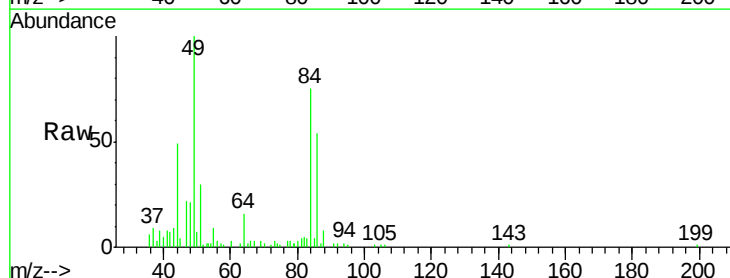
Instrument :
MSVOA_X
ClientSampled :

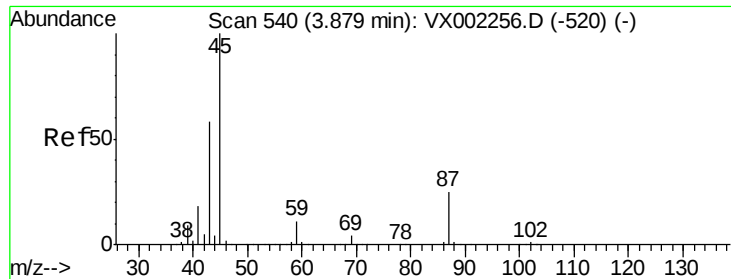
Tot Ion: 73 Resp: 154
Ion Ratio Lower Upper
73 100
57 17.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Tgt Ion: 84 Resp: 6190
Ion Ratio Lower Upper
84 100
49 130.8 107.8 161.6
51 37.2 32.8 49.2
86 71.1 52.5 78.7





#22

Diisopropyl ether

Concen: Below Cal

RT: 3.88 min Scan# 540

Delta R.T. 0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 45 Resp: 119

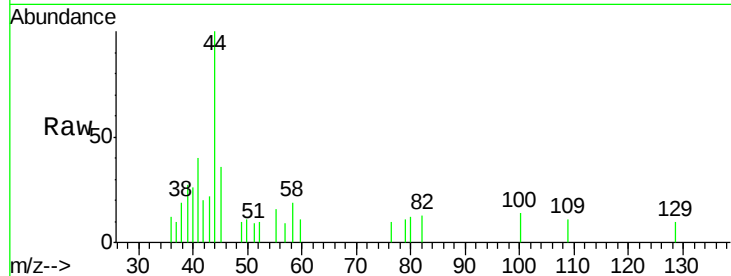
Ion Ratio Lower Upper

45 100

43 12.0 46.8 70.2#

87 0.0 20.2 30.4#

59 0.0 8.7 13.1#

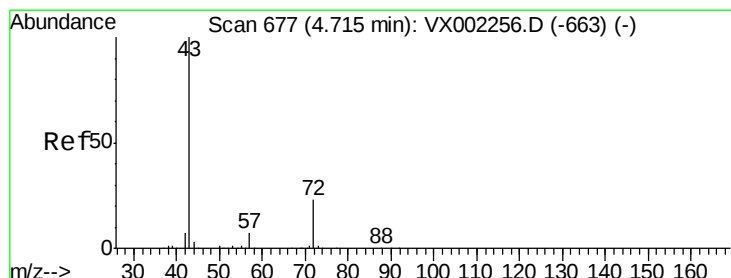
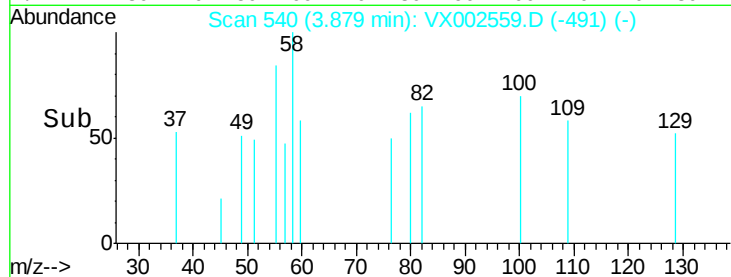
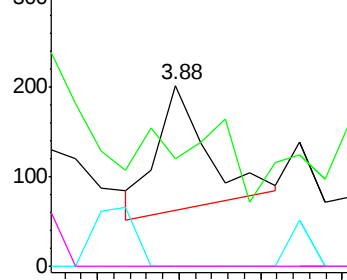


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#25

2-Butanone

Concen: 3.36 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX002559.D

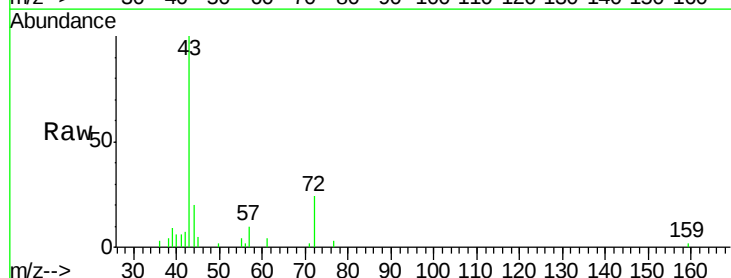
Acq: 14 Jun 2018 18:32

Tgt Ion: 43 Resp: 8476

Ion Ratio Lower Upper

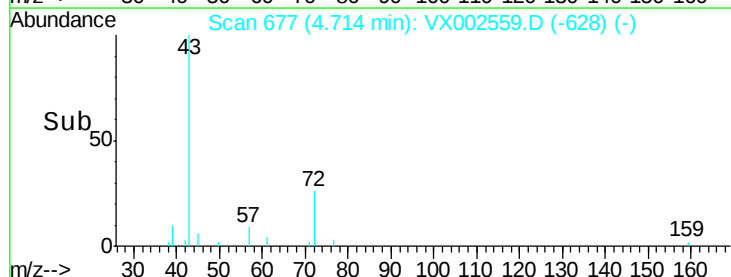
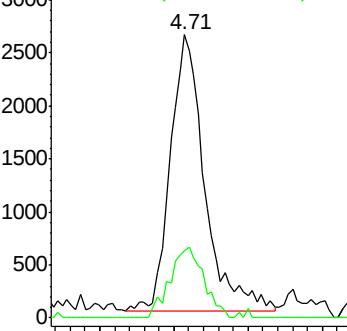
43 100

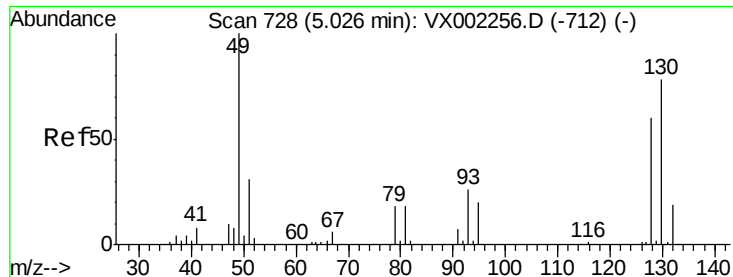
72 24.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

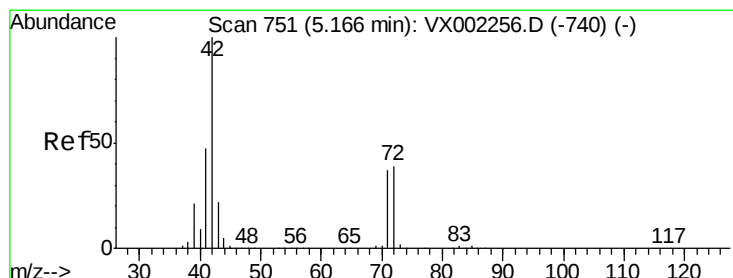
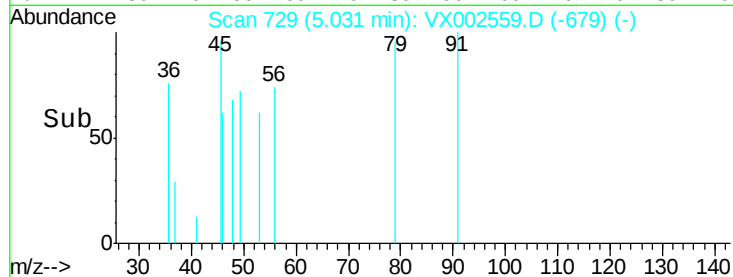
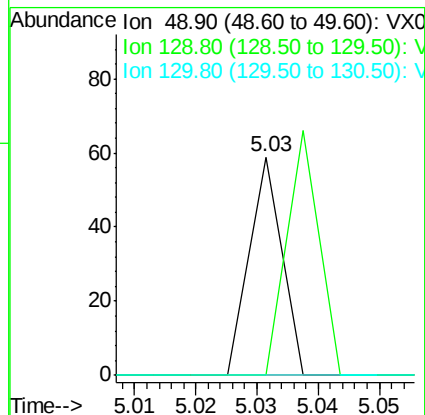
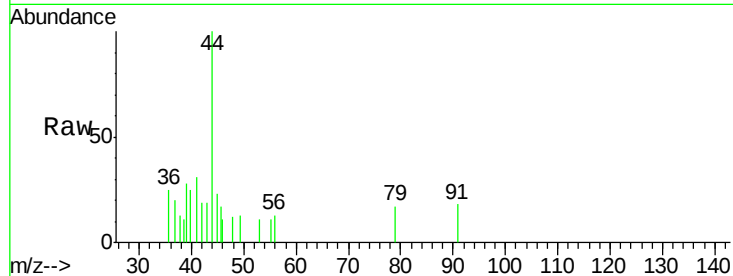
Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 22

Ion	Ratio	Lower	Upper
49	100		
129	109.1	0.0	4.2#
130	0.0	61.2	91.8#



#29

Tetrahydrofuran

Concen: 0.58 ug/l

RT: 5.17 min Scan# 752

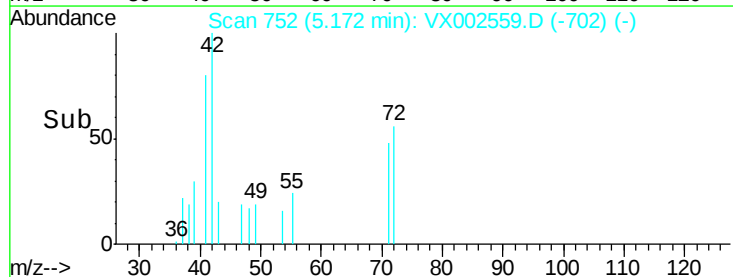
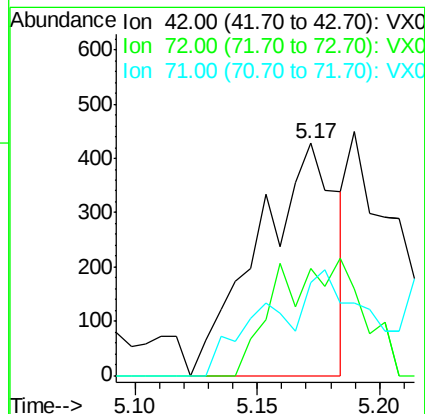
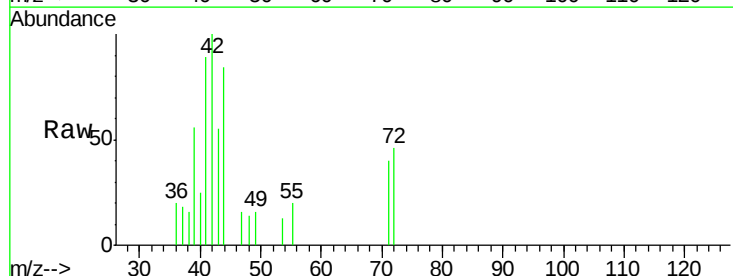
Delta R.T. 0.01 min

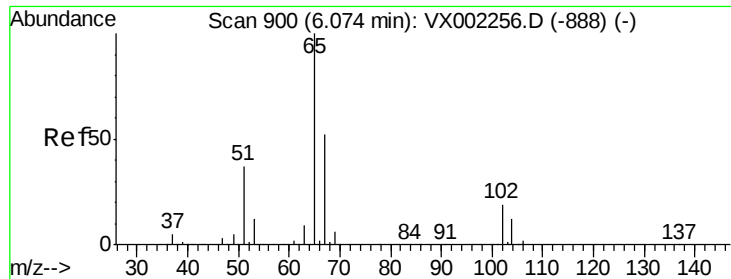
Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Tgt Ion: 42 Resp: 948

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	42.3	30.1	45.1





#33

1,2-Dichloroethane-d4

Concen: 47.53 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

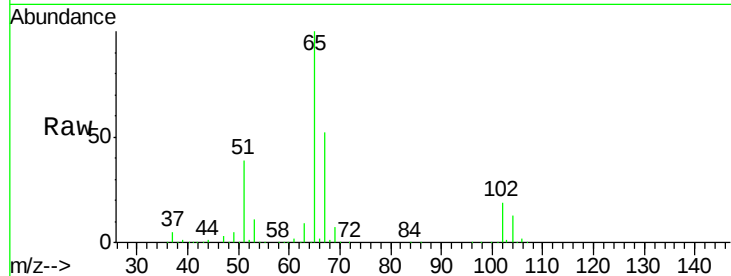
ClientSampleId :

Tot Ion: 65 Resp: 175716

Ion Ratio Lower Upper

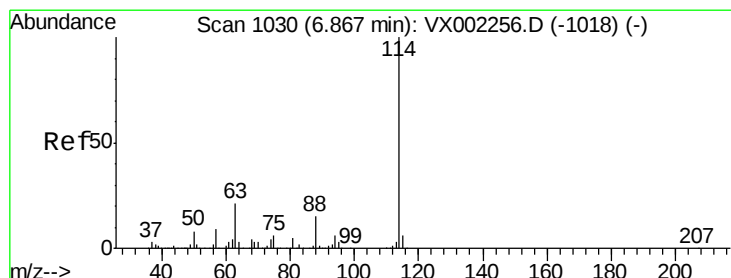
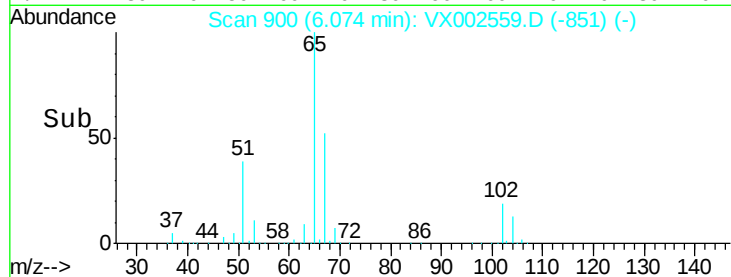
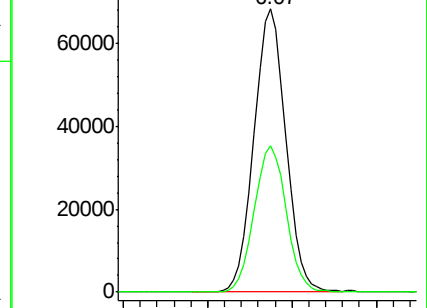
65 100

67 52.3 0.0 102.6



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. -0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

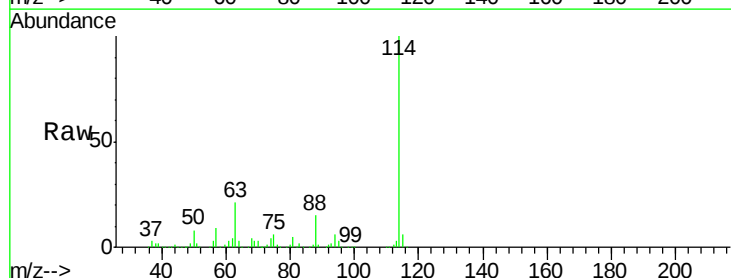
Tgt Ion: 114 Resp: 369253

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

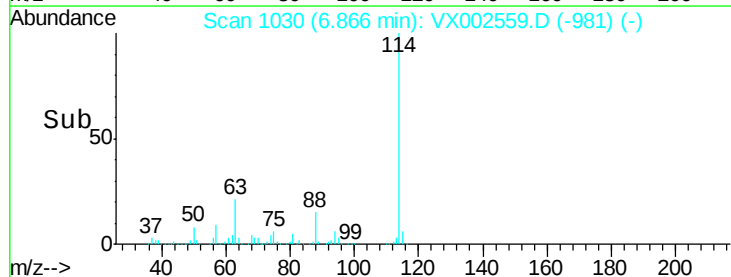
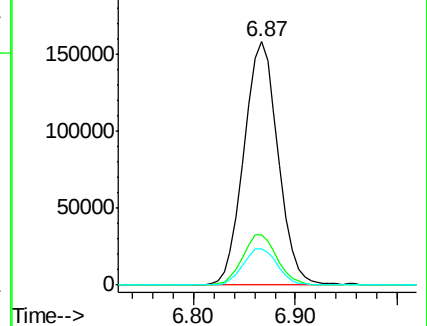
88 15.1 0.0 30.0

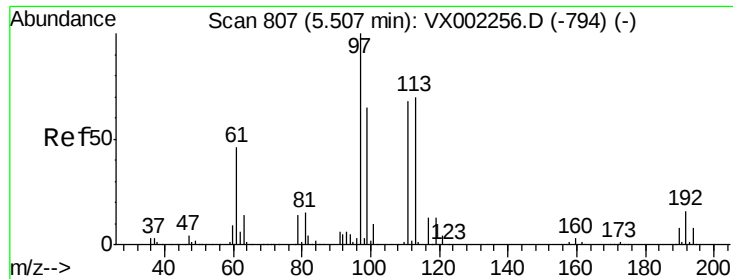


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

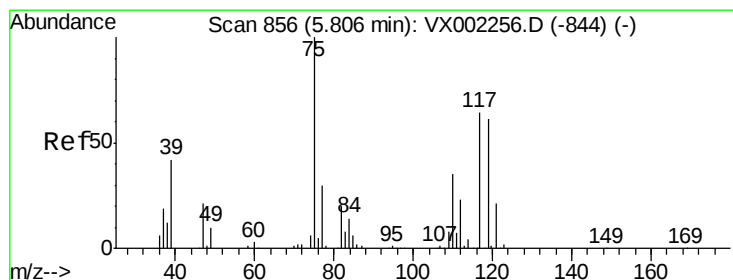
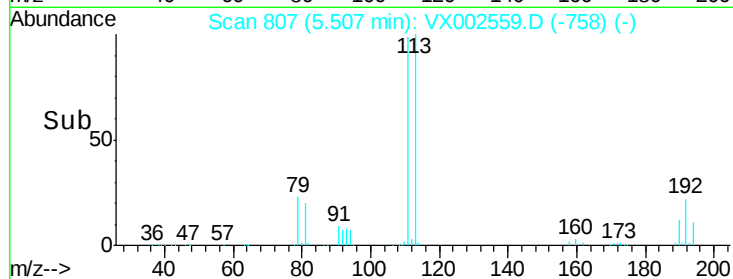
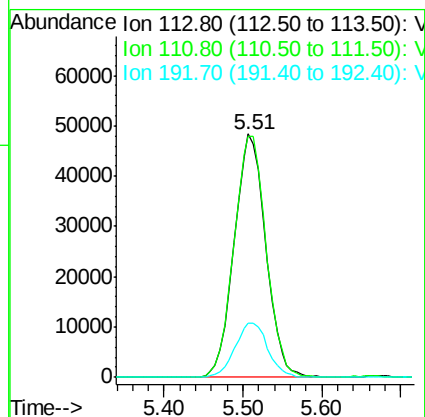
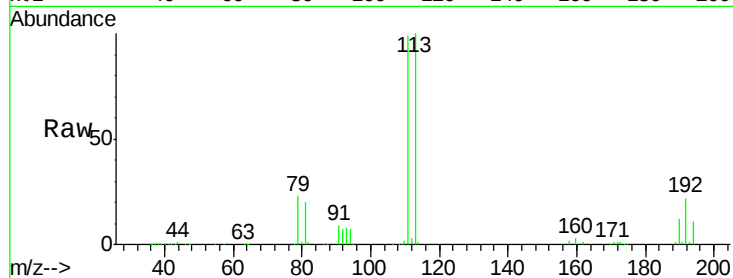




#35
 Dibromofluoromethane
 Concen: 46.50 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002559.D
 Acq: 14 Jun 2018 18:32

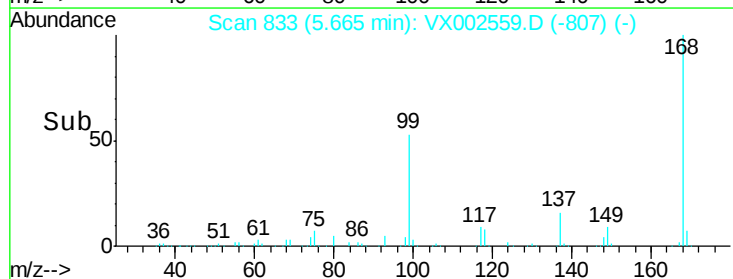
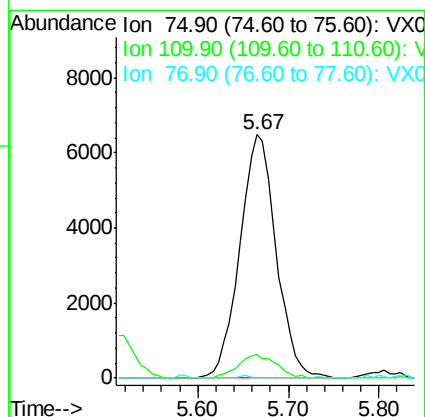
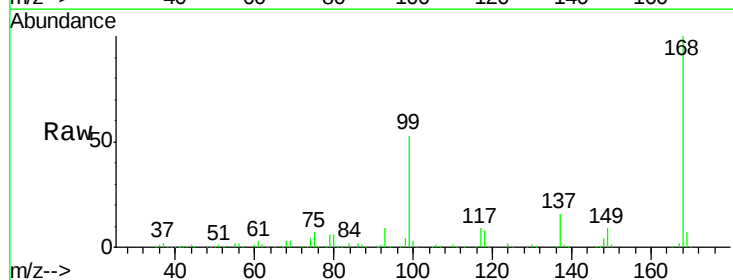
Instrument :
 MSVOA_X
 ClientSampleId :

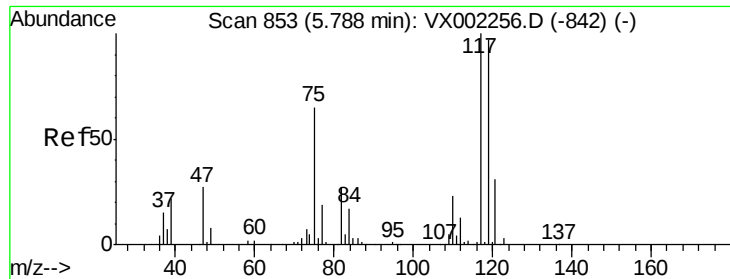
Tot Ion:113 Resp: 135033
 Ion Ratio Lower Upper
 113 100
 111 100.9 81.4 122.0
 192 23.3 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.64 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002559.D
 Acq: 14 Jun 2018 18:32

Tgt Ion: 75 Resp: 17995
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.1 54.4#
 77 0.3 24.3 36.5#

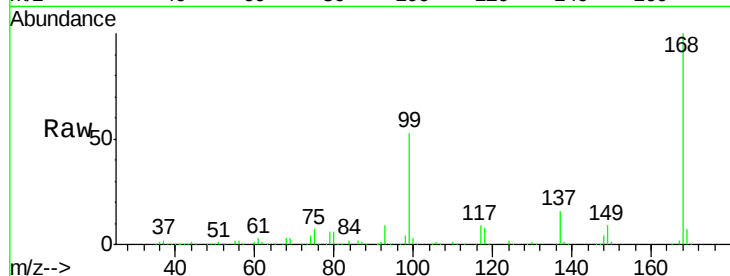




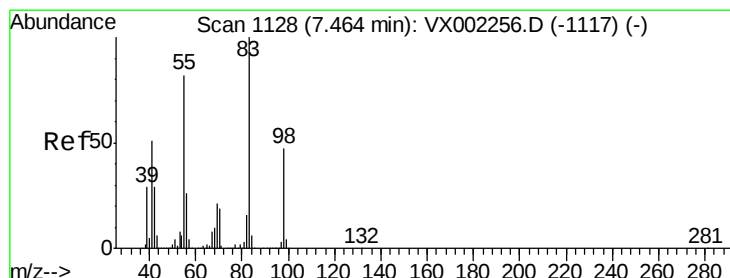
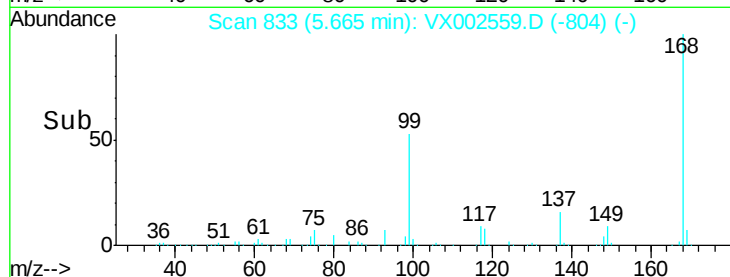
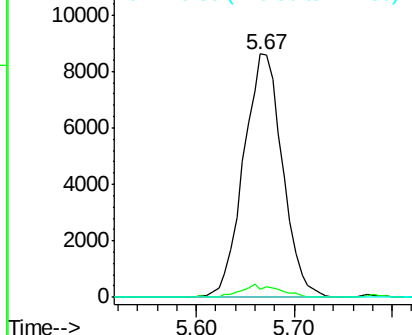
#38
Carbon Tetrachloride
Concen: 5.87 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 23852
Ion Ratio Lower Upper
117 100
119 3.3 77.4 116.0#
121 0.0 24.4 36.6#

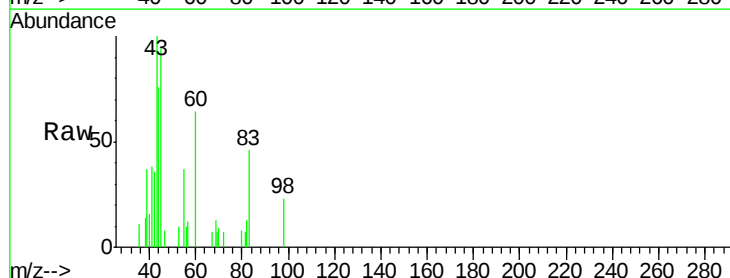


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

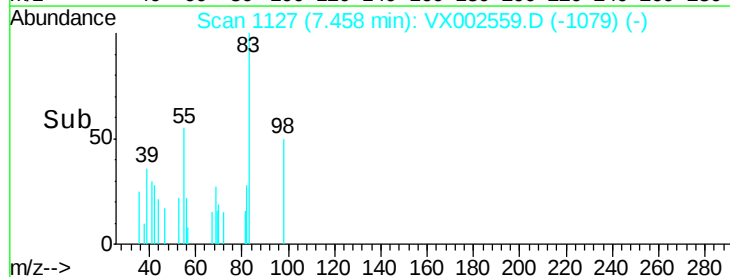
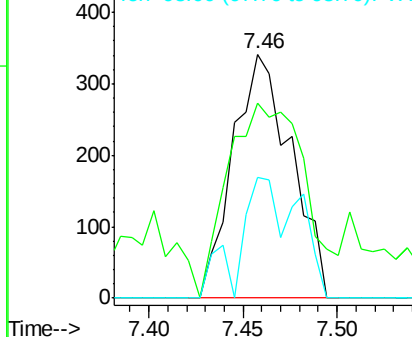


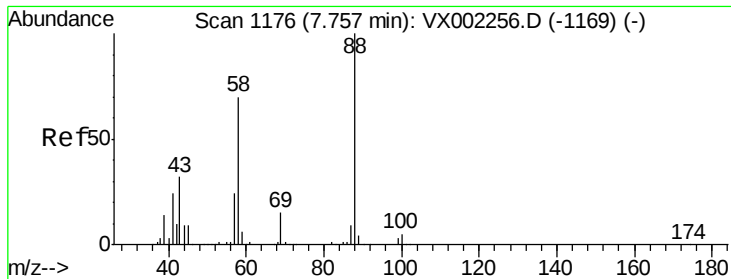
#39
Methylcyclohexane
Concen: 0.41 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Tgt Ion: 83 Resp: 731
Ion Ratio Lower Upper
83 100
55 64.5 65.4 98.0#
98 49.6 37.4 56.0



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

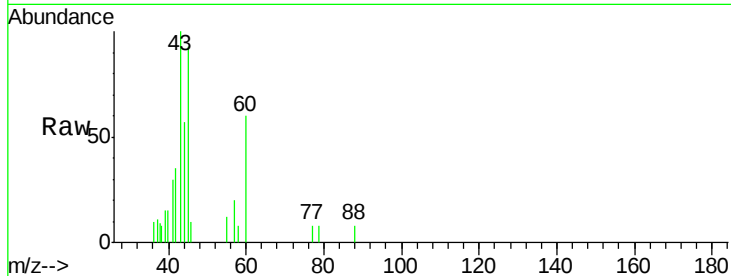




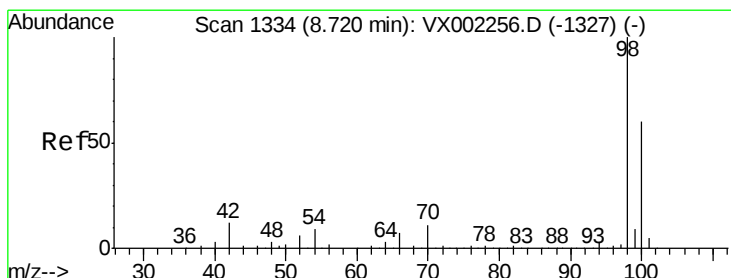
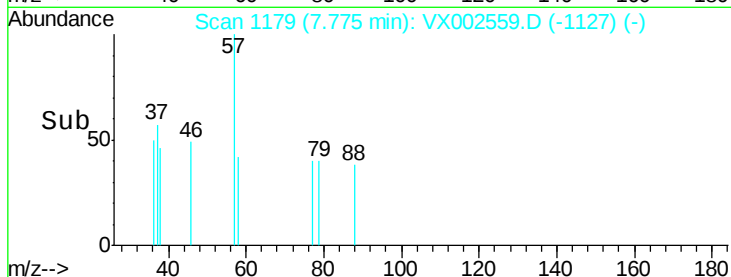
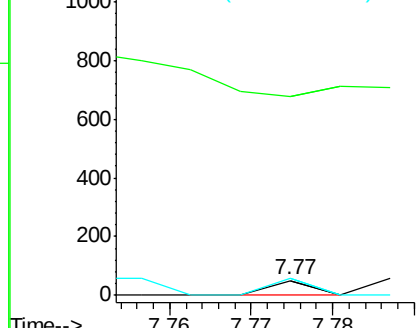
#49
1,4-Dioxane
Concen: 0.26 ug/l
RT: 7.77 min Scan# 1179
Delta R.T. 0.02 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 105.3 57.1 85.7#

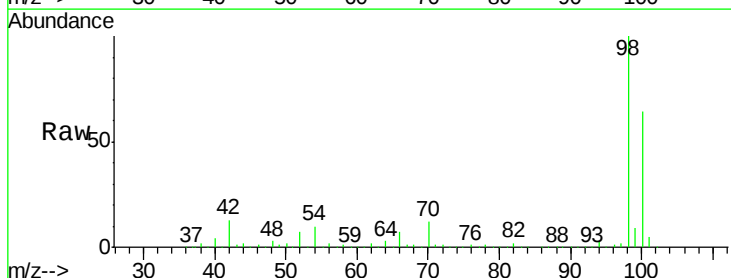


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

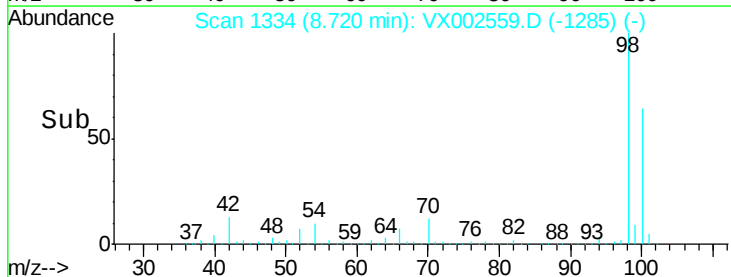
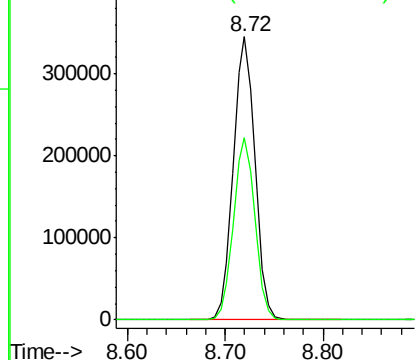


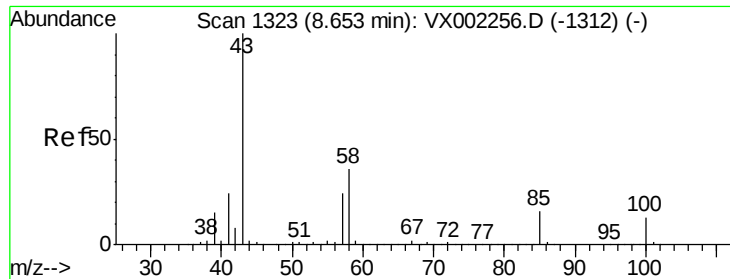
#50
Toluene-d8
Concen: 47.57 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Tgt Ion: 98 Resp: 529514
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 1.37 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

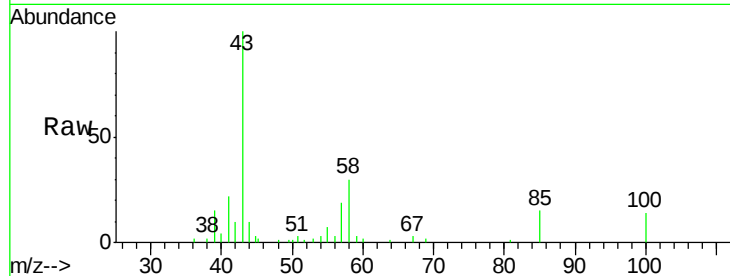
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 6782

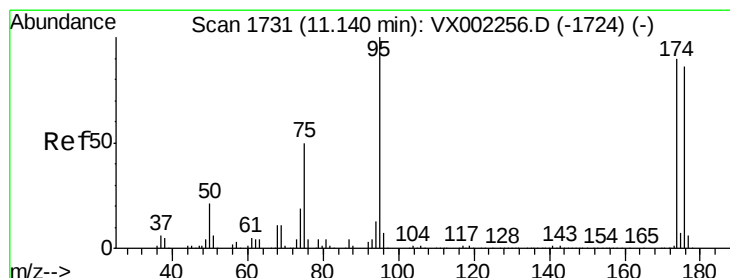
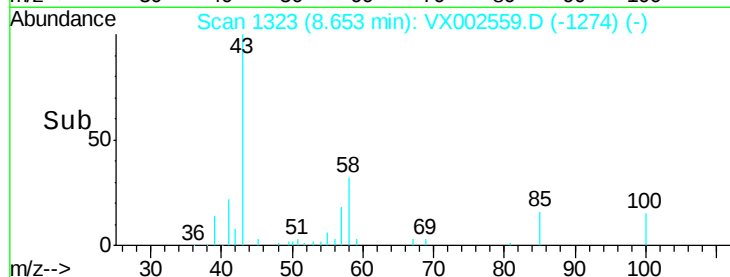
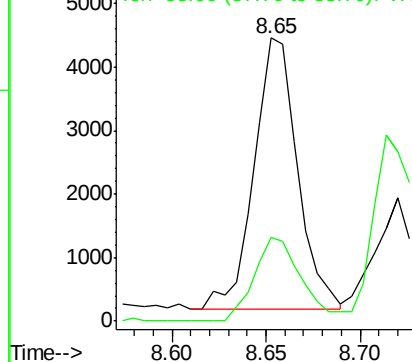
Ion Ratio Lower Upper

43 100

58 33.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

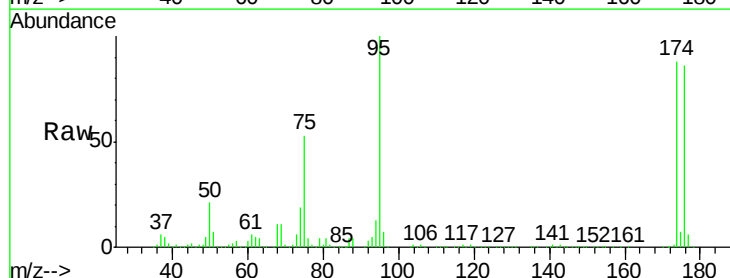
Tgt Ion: 95 Resp: 191807

Ion Ratio Lower Upper

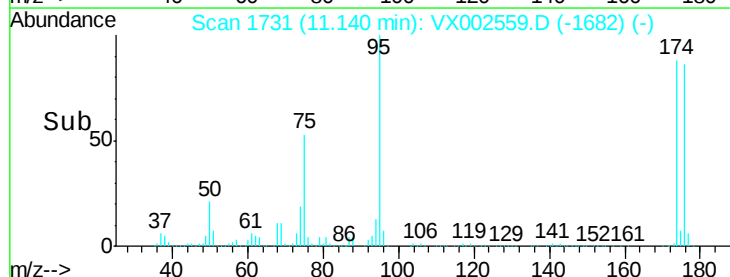
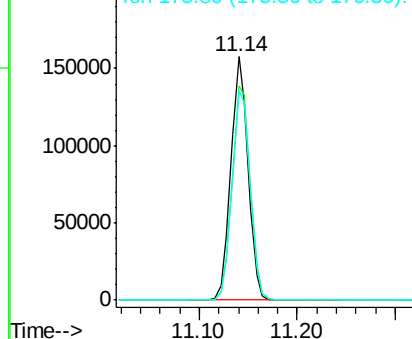
95 100

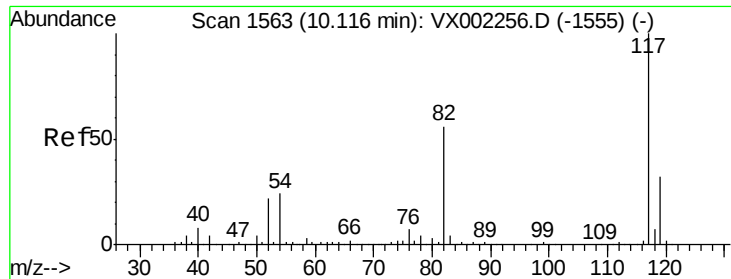
174 93.1 0.0 187.4

176 89.9 0.0 181.0



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

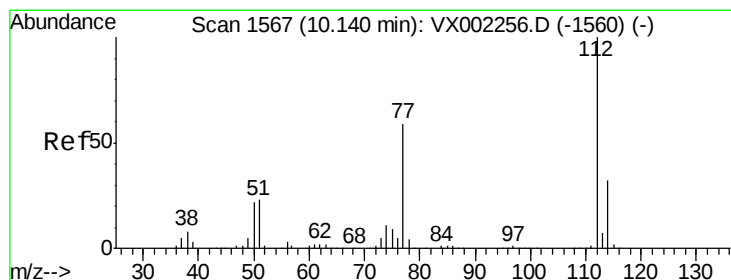
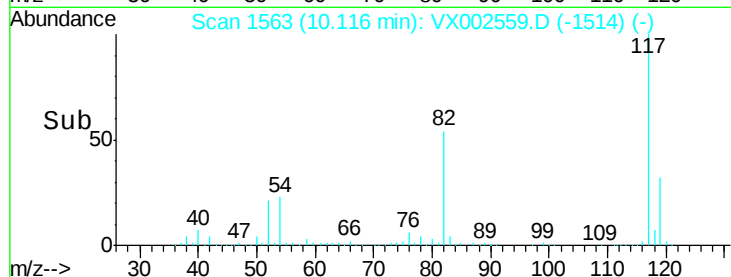
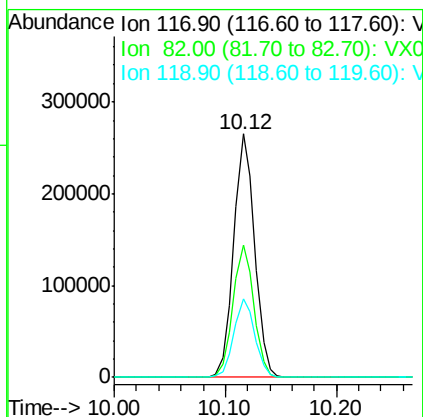
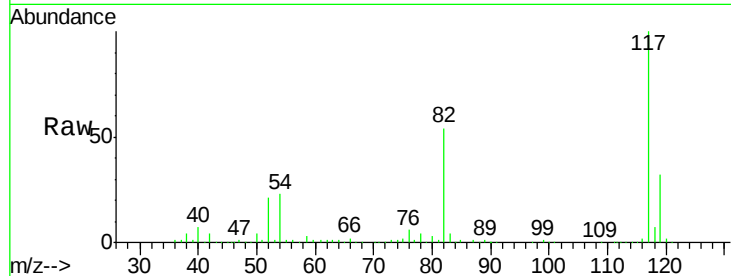




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

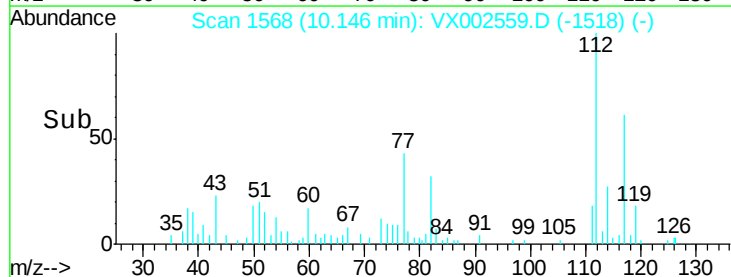
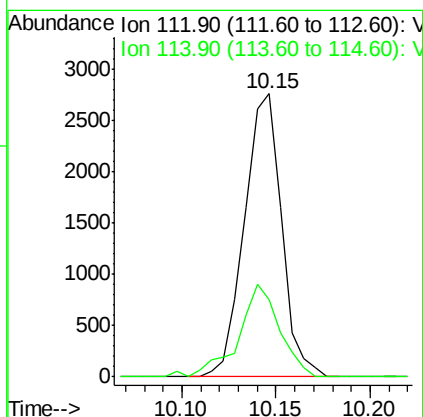
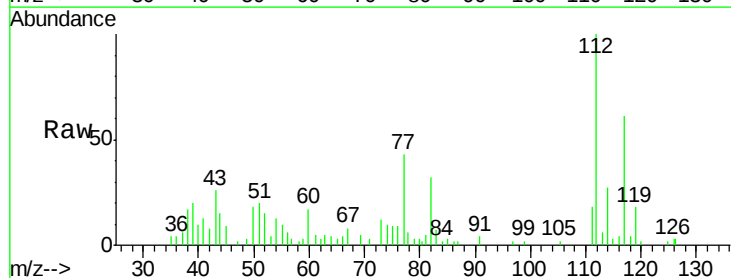
Instrument :
MSVOA_X
ClientSampleId :

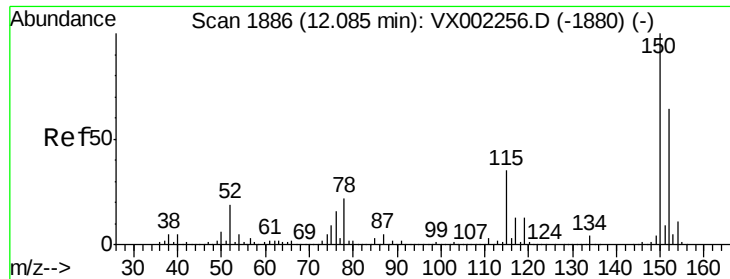
Tot Ion:117 Resp: 344348
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.1 25.8 38.6



#65
Chlorobenzene
Concen: 0.44 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002559.D
Acq: 14 Jun 2018 18:32

Tgt Ion:112 Resp: 3779
Ion Ratio Lower Upper
112 100
114 27.3 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

ClientSampleId :

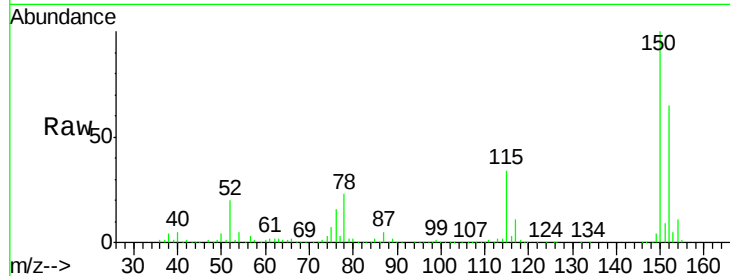
Tot Ion:152 Resp: 198333

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

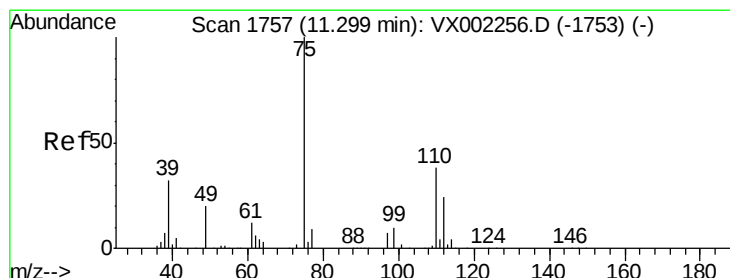
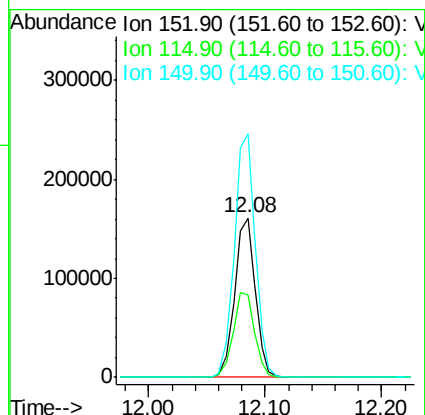
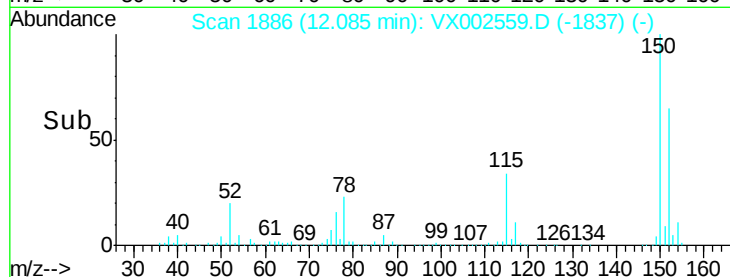
150 155.7 0.0 347.2



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: 23.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002559.D

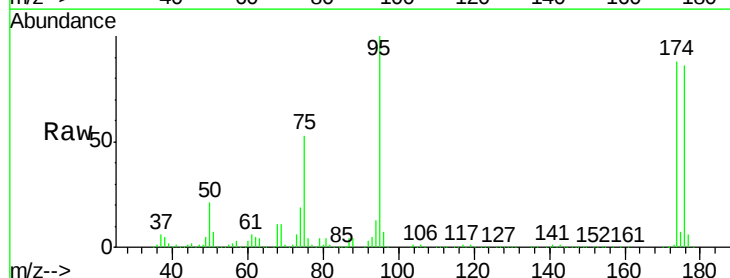
Acq: 14 Jun 2018 18:32

Tgt Ion: 75 Resp: 101578

Ion Ratio Lower Upper

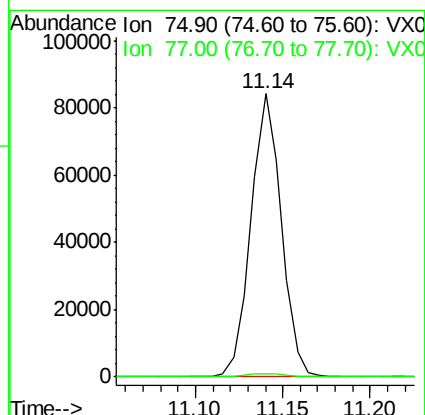
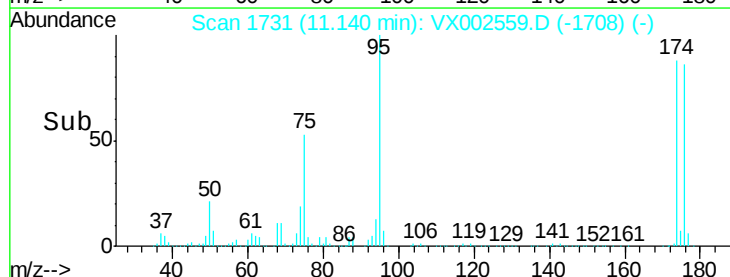
75 100

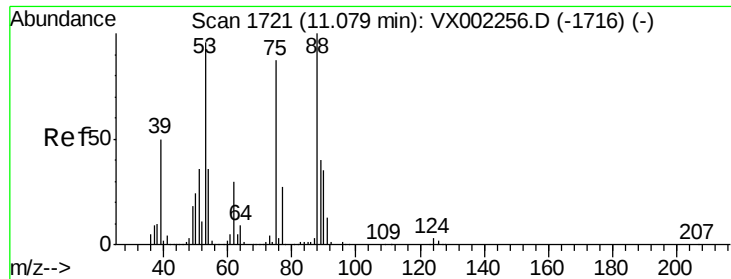
77 1.3 22.8 68.3#



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: 81.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002559.D

Acq: 14 Jun 2018 18:32

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 101578

Ion Ratio Lower Upper

75 100

53 0.5 86.8 130.2#

89 0.0 38.2 57.2#

