

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002267.D
 Acq On : 04 Jun 2018 18:20
 Operator : JC/MD
 Sample : J3282-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 05:00:36 2018
 Quant Method : Y:\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	279970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	401366	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	363255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	206298	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	192290	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	5.51	113	141549	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
50) Toluene-d8	8.72	98	577199	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
62) 4-Bromofluorobenzene	11.14	95	201333	43.16	ug/l	0.00
Spiked Amount			Recovery	=	86.32%	

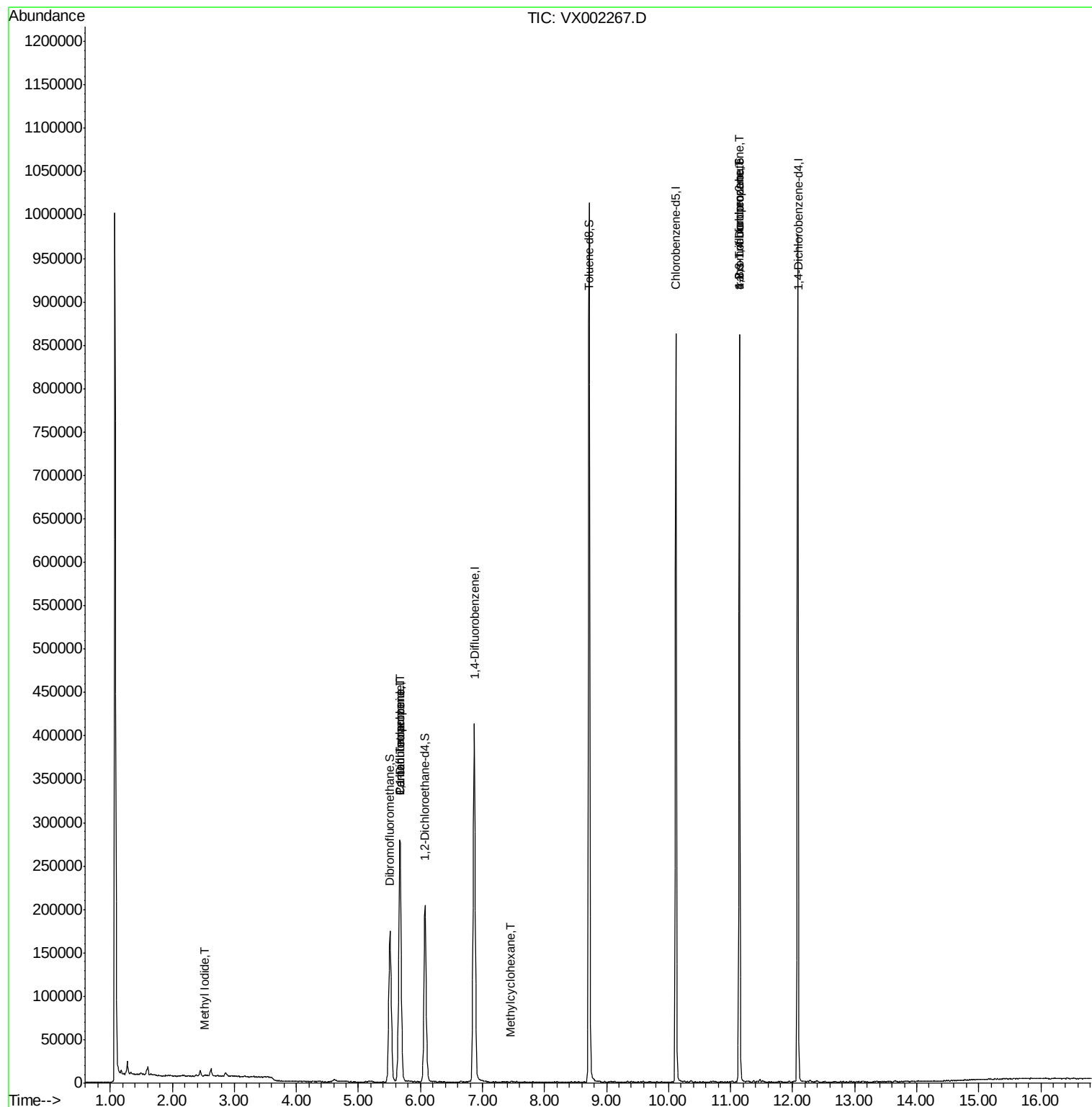
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	997	Below Cal	#	79
5) Bromomethane	1.65	94	1476	Below Cal		87
8) Diethyl Ether	2.24	74	84	Below Cal		82
10) Methyl Iodide	2.52	142	1840	0.43	ug/l	95
11) Tert butyl alcohol	3.06	59	77	Below Cal	#	1
13) Acrolein	2.29	56	59	Below Cal	#	1
15) Acrylonitrile	3.15	53	193	Below Cal	#	50
16) Acetone	2.45	43	6792	Below Cal		96
18) Methyl Acetate	2.79	43	481	Below Cal	#	55
19) Methyl tert-butyl Ether	3.19	73	153	Below Cal	#	54
20) Methylene Chloride	2.87	84	1700	Below Cal	#	87
22) Diisopropyl ether	3.86	45	98	Below Cal	#	79
28) Bromochloromethane	5.03	49	20	Below Cal	#	13
36) 1,1-Dichloropropene	5.67	75	19647	4.66	ug/l	51
38) Carbon Tetrachloride	5.67	117	25253	5.72	ug/l	15
39) Methylcyclohexane	7.46	83	193	0.30	ug/l	68
76) 1,2,3-Trichloropropane	11.14	75	109502	24.19	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	109502	84.79	ug/l	7

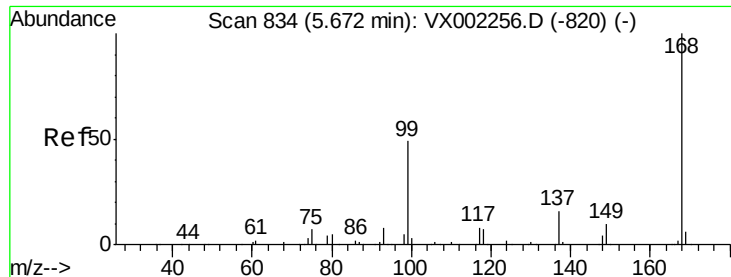
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

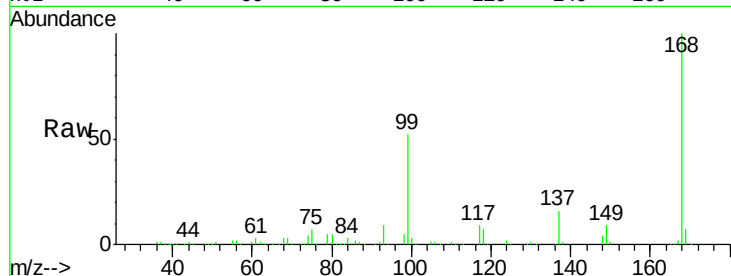
ClientSampled :

Tot Ion:168 Resp: 279970

Ion Ratio Lower Upper

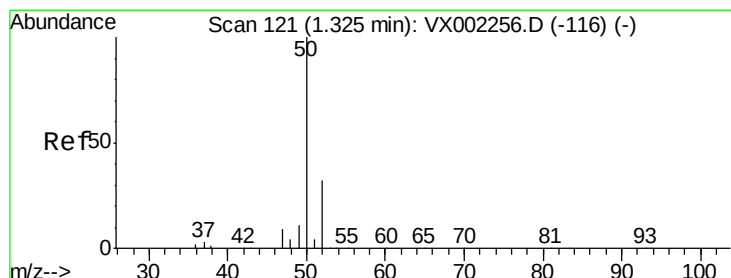
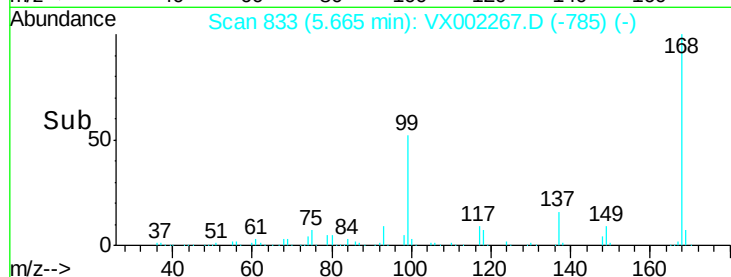
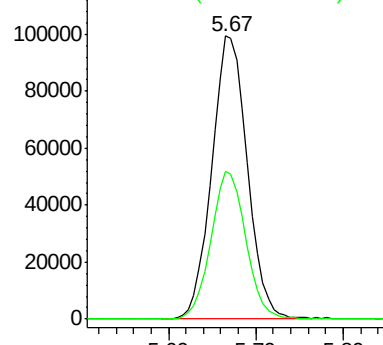
168 100

99 52.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002267.D

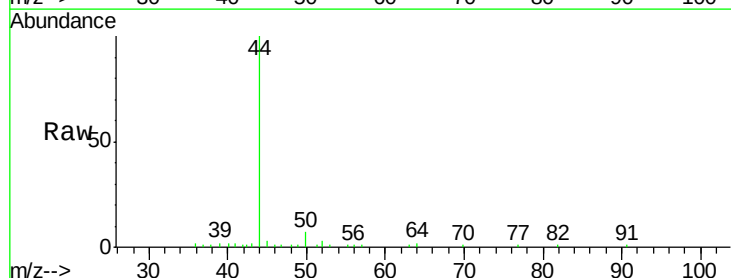
Acq: 04 Jun 2018 18:20

Tgt Ion: 50 Resp: 997

Ion Ratio Lower Upper

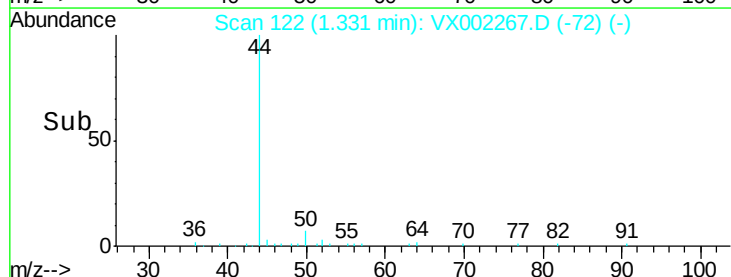
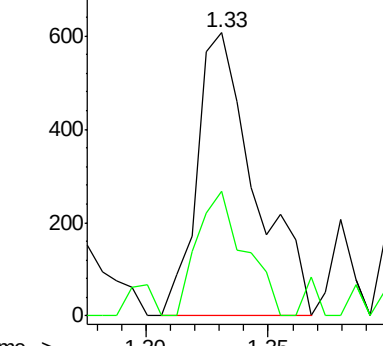
50 100

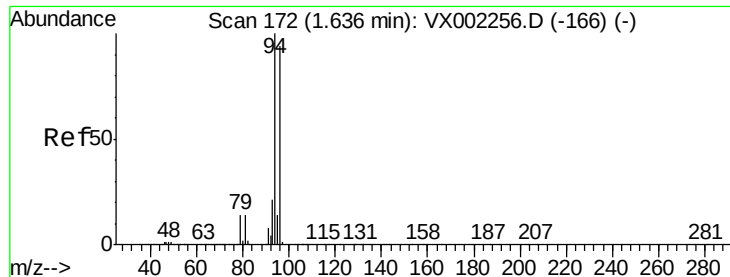
52 44.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

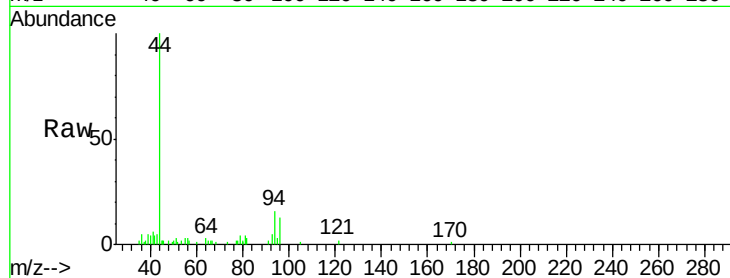
ClientSampled :

Tot Ion: 94 Resp: 1476

Ion Ratio Lower Upper

94 100

96 81.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

400

200

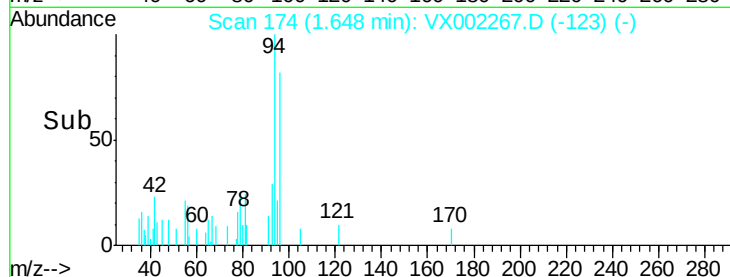
0

1.60

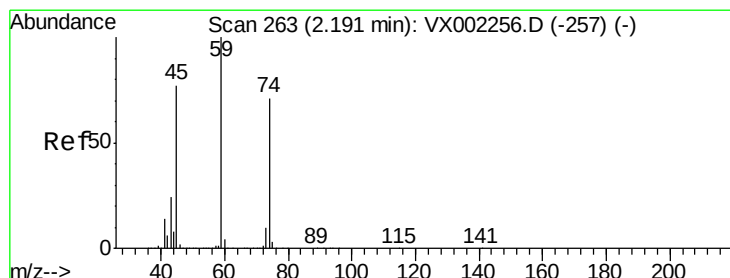
1.65

1.70

Time-->



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.24 min Scan# 271

Delta R.T. 0.05 min

Lab File: VX002267.D

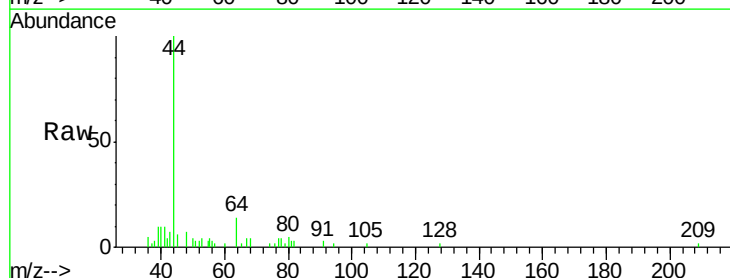
Acq: 04 Jun 2018 18:20

Tgt Ion: 74 Resp: 84

Ion Ratio Lower Upper

74 100

45 88.1 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

150

100

50

0

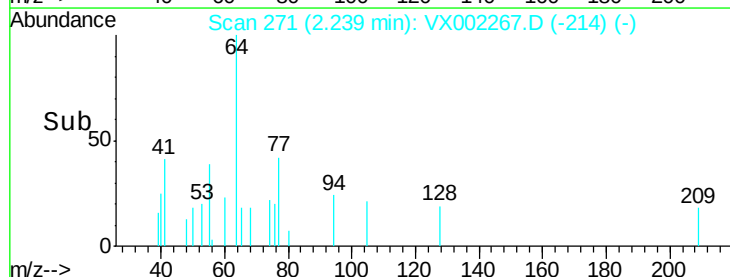
2.20

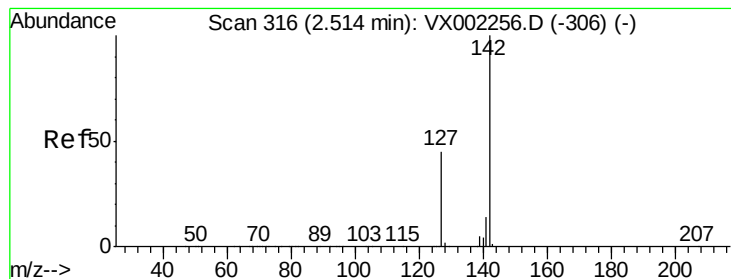
2.22

2.24

2.26

Time-->





#10

Methvl Iodide

Concen: 0.43 ua/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

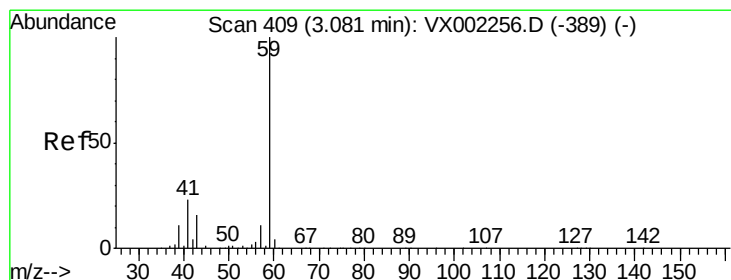
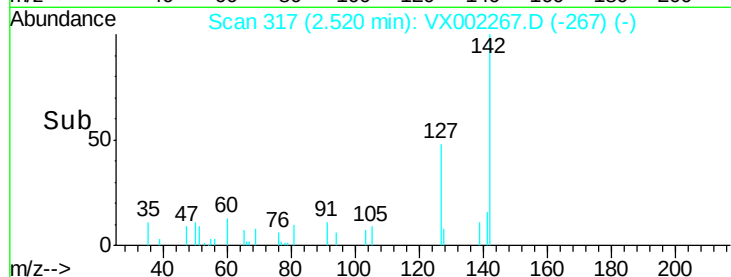
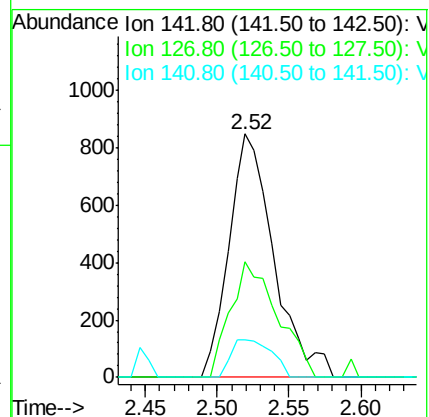
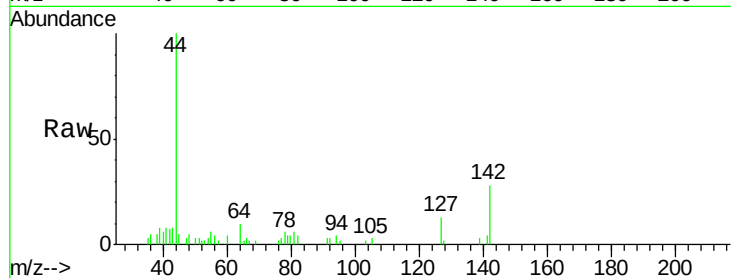
Tot Ion:142 Resp: 1840

Ion Ratio Lower Upper

142 100

127 50.0 36.6 55.0

141 14.1 11.3 16.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.06 min Scan# 405

Delta R.T. -0.02 min

Lab File: VX002267.D

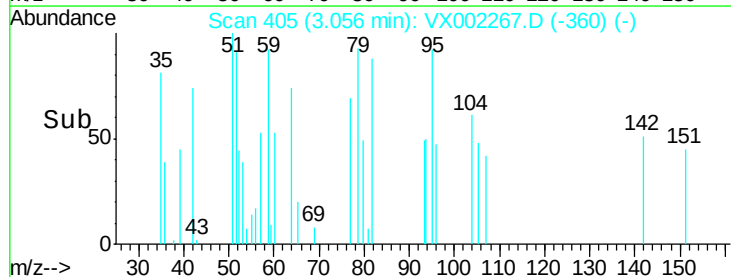
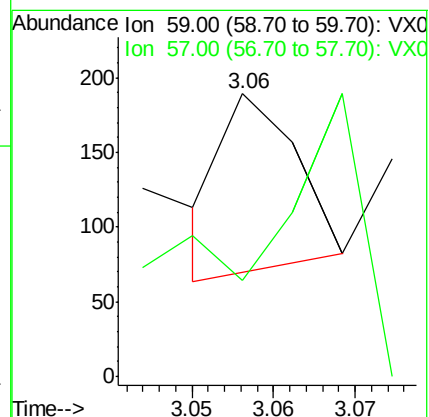
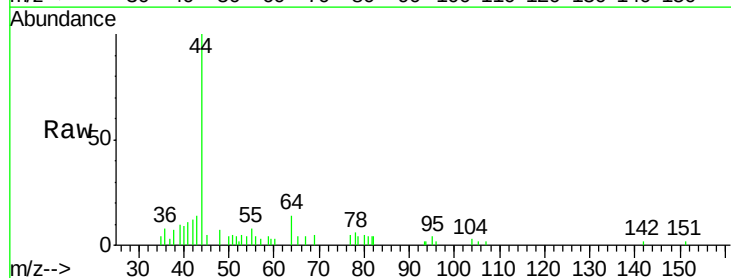
Acq: 04 Jun 2018 18:20

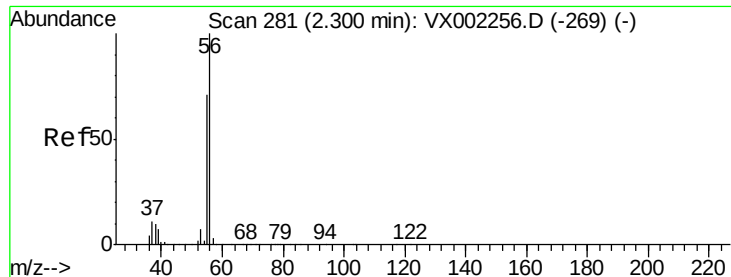
Tgt Ion: 59 Resp: 77

Ion Ratio Lower Upper

59 100

57 251.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

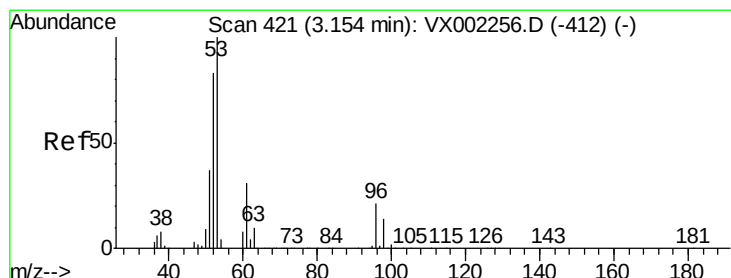
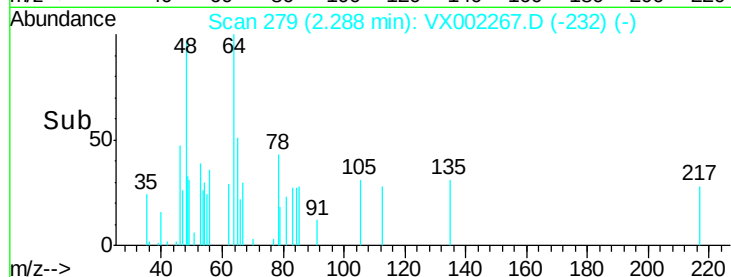
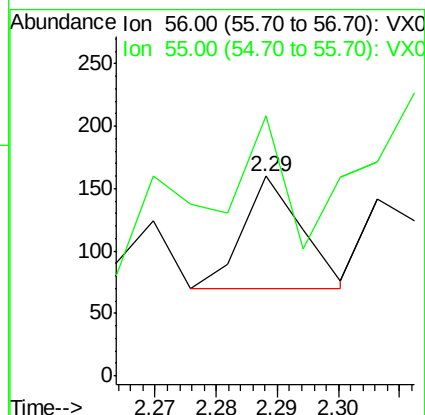
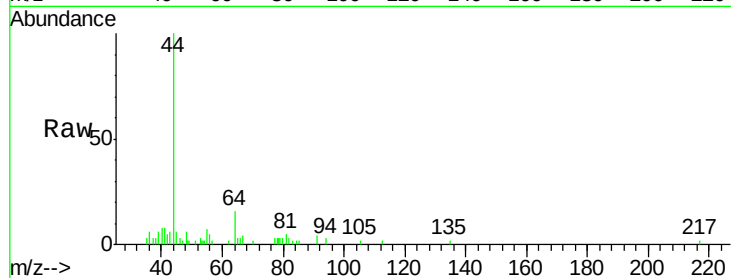
ClientSampled :

Tot Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 210.2 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

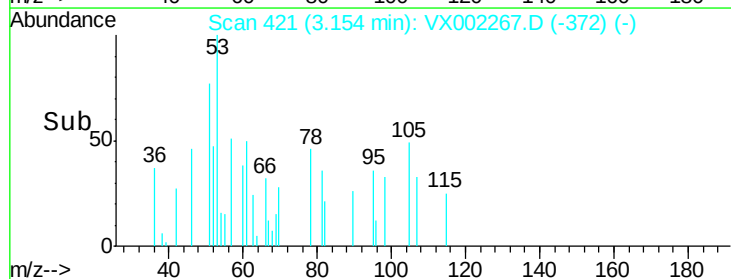
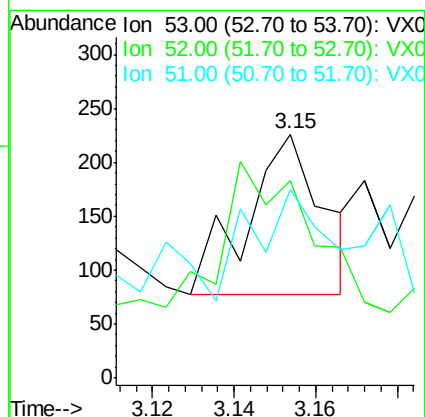
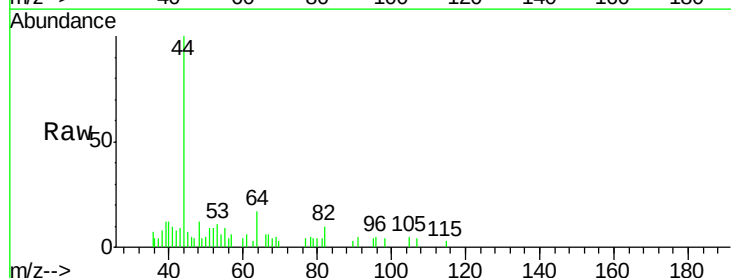
Tgt Ion: 53 Resp: 193

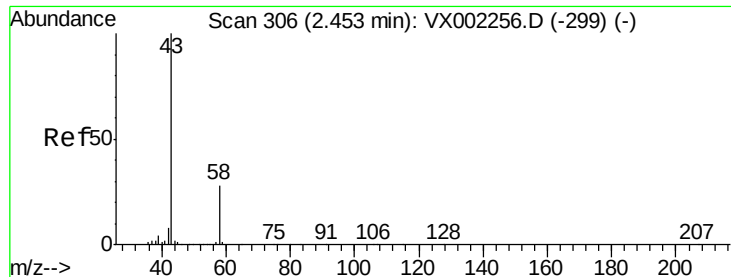
Ion Ratio Lower Upper

53 100

52 105.2 66.7 100.1#

51 101.6 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

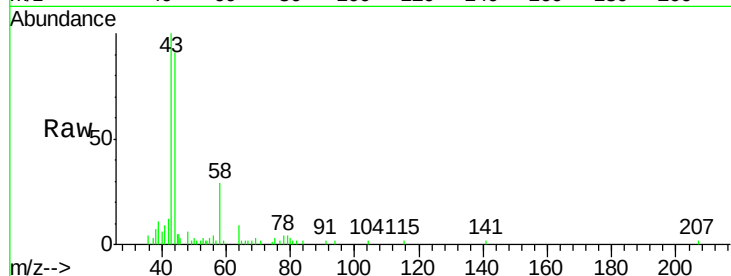
ClientSampleId :

Tot Ion: 43 Resp: 6792

Ion Ratio Lower Upper

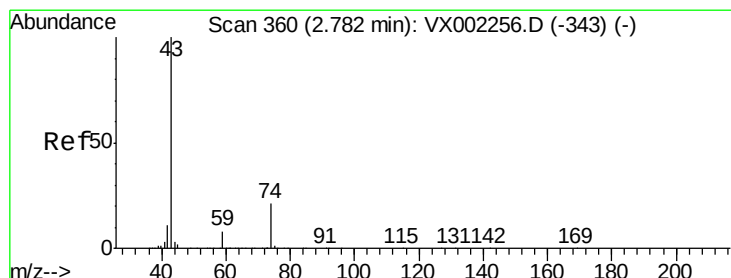
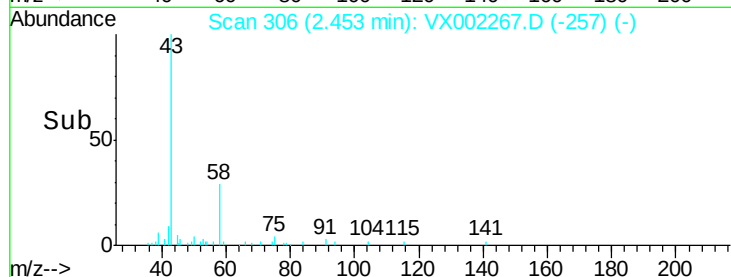
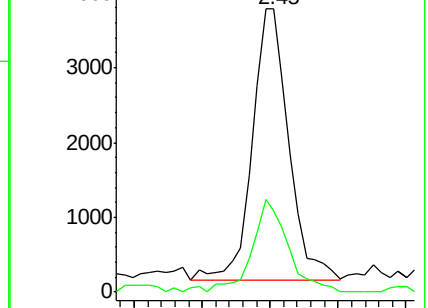
43 100

58 29.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002267.D

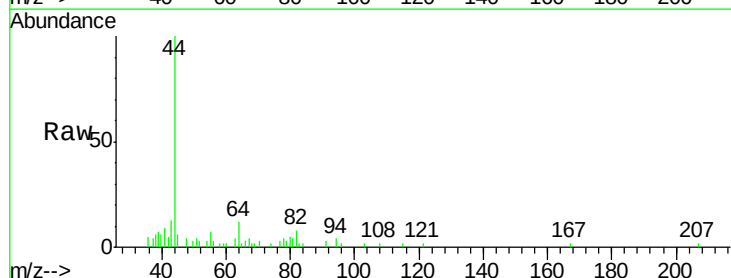
Acq: 04 Jun 2018 18:20

Tgt Ion: 43 Resp: 481

Ion Ratio Lower Upper

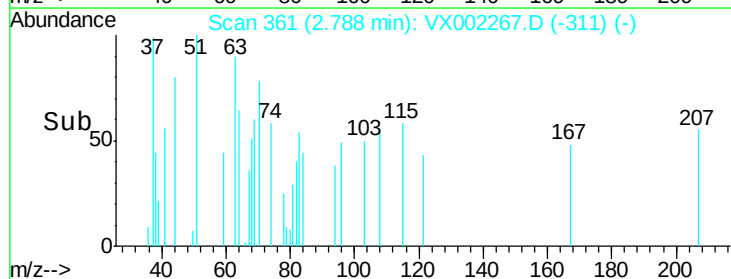
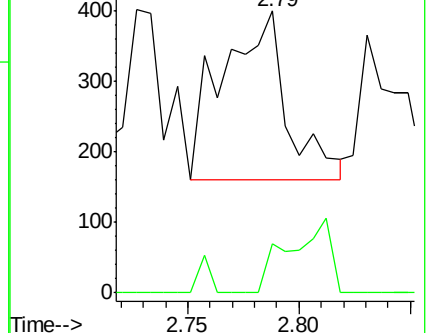
43 100

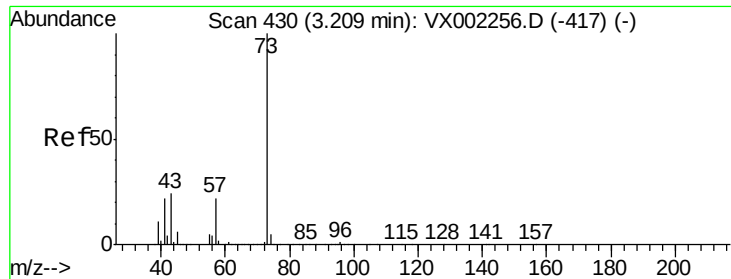
74 0.0 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



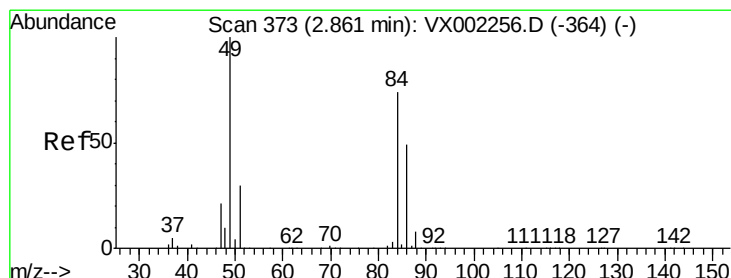
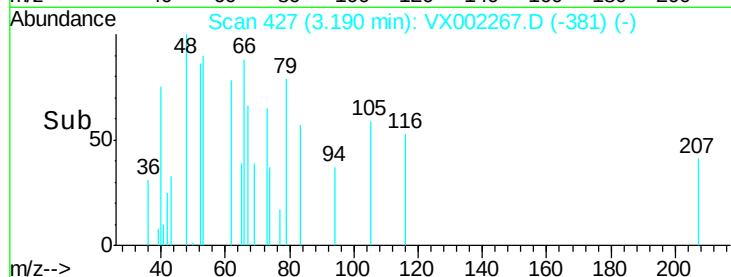
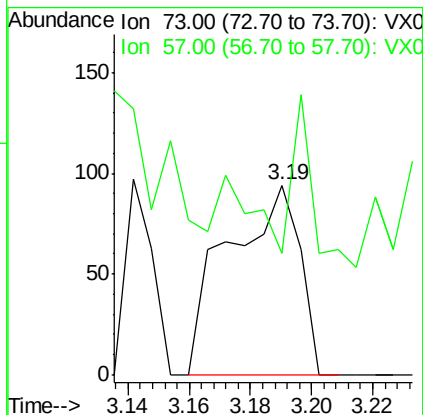
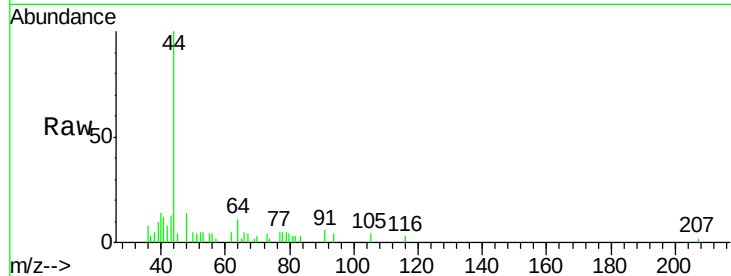


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.19 min Scan# 427
Delta R.T. -0.02 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Instrument :
MSVOA_X
ClientSampleId :

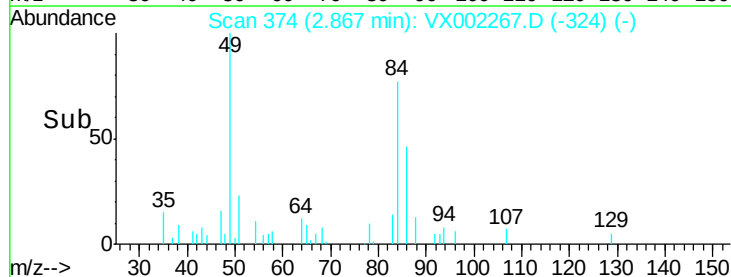
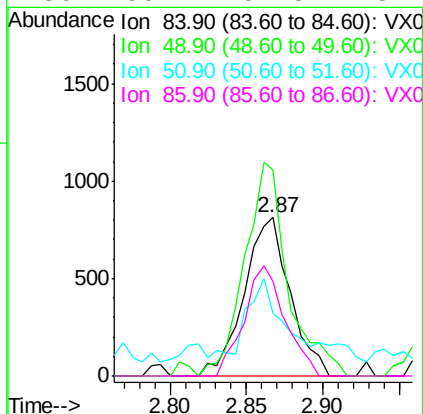
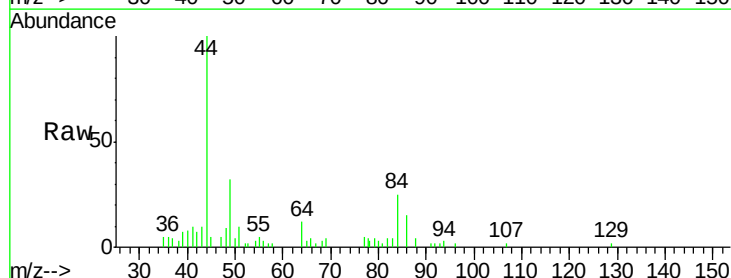
Tot Ion: 73 Resp: 153
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

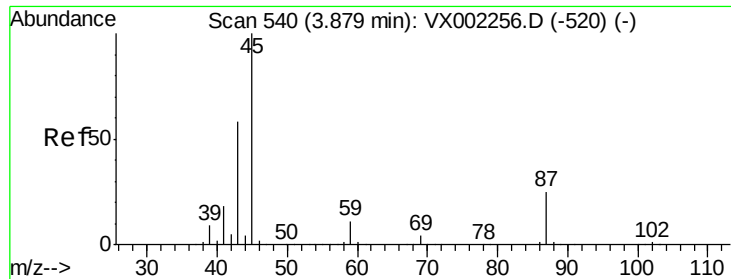


#20

Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Tgt Ion: 84 Resp: 1700
Ion Ratio Lower Upper
84 100
49 123.5 107.8 161.6
51 20.0 32.8 49.2#
86 59.7 52.5 78.7



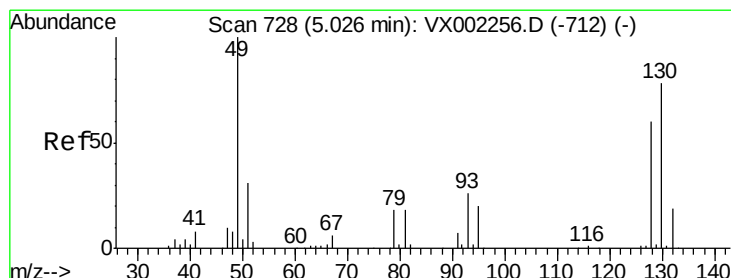
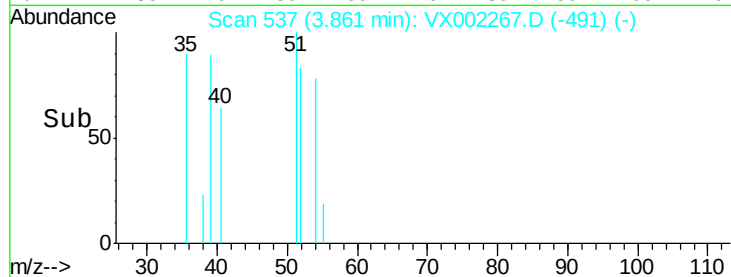
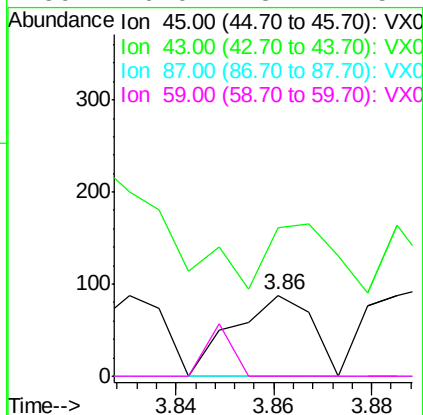
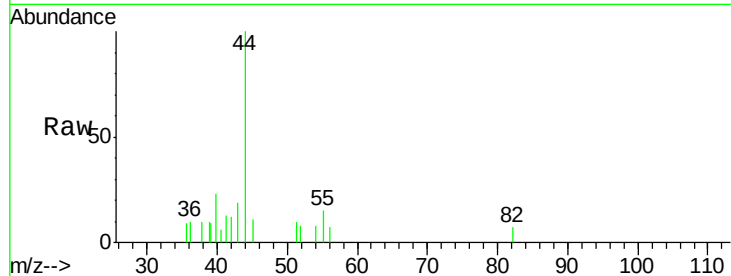


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.86 min Scan# 537
Delta R.T. -0.02 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Instrument :
MSVOA_X
ClientSampled :

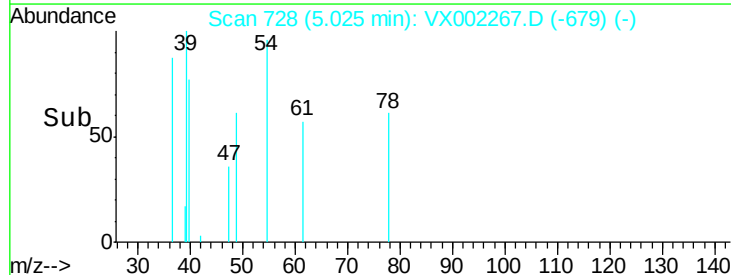
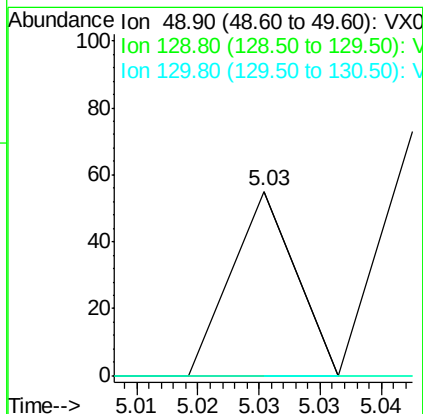
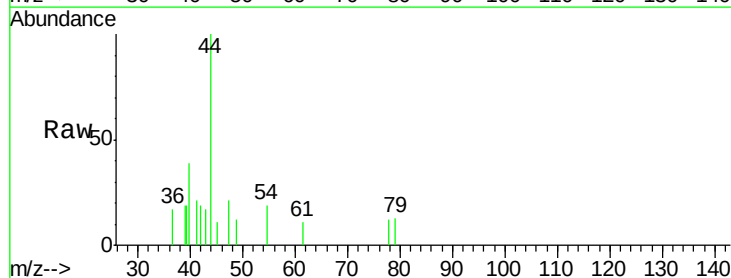
Tot Ion:	45	Resp:	98
Ion	Ratio	Lower	Upper
45	100		
43	53.4	46.8	70.2
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

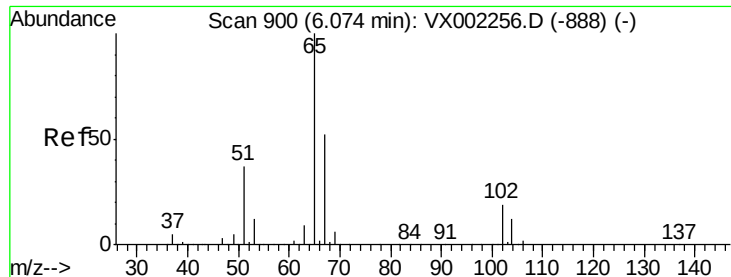


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 728
Delta R.T. 0.00 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Tgt Ion:	49	Resp:	20
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#

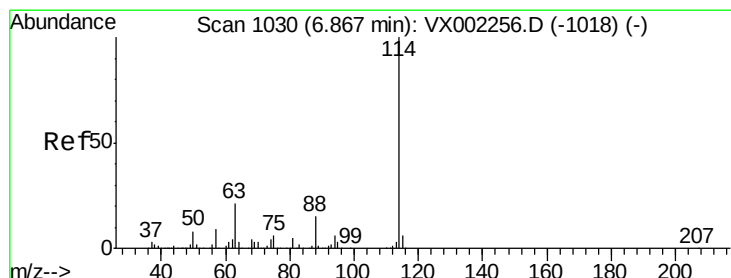
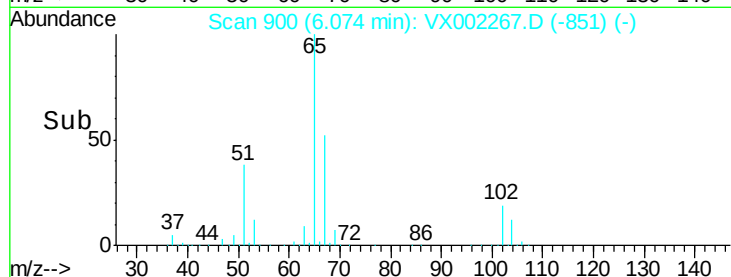
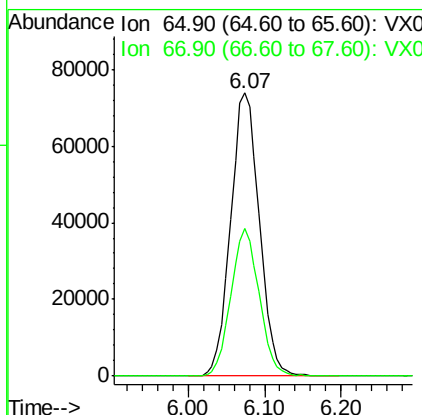
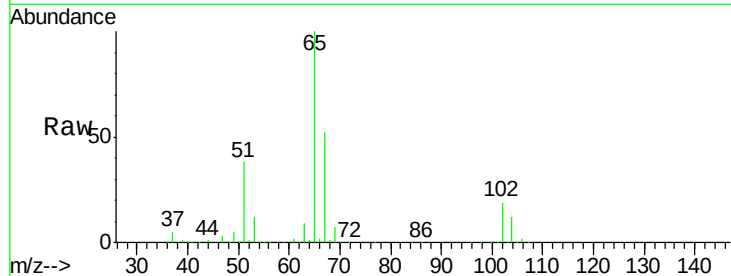




#33
 1,2-Dichloroethane-d4
 Concen: 47.88 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002267.D
 Acq: 04 Jun 2018 18:20

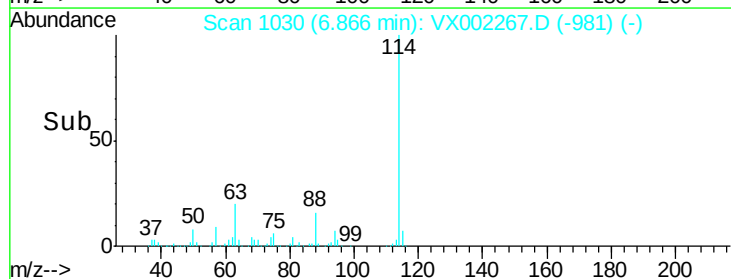
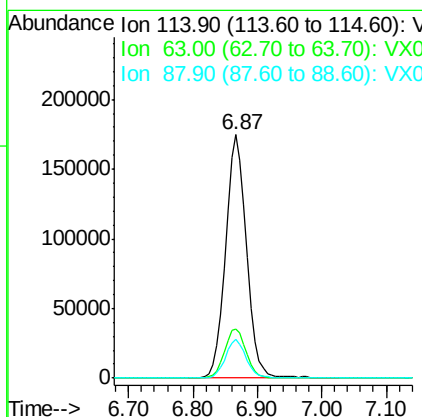
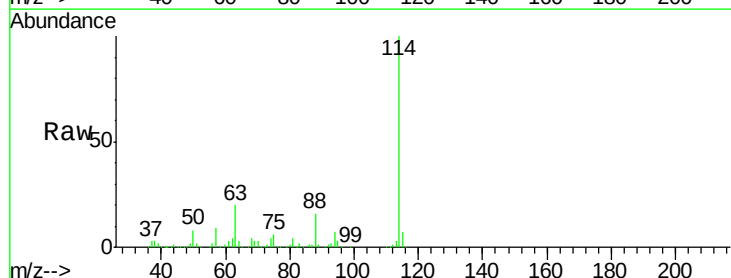
Instrument :
 MSVOA_X
 ClientSampleId :

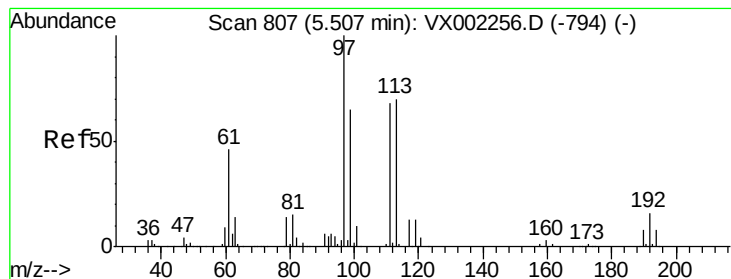
Tot Ion: 65 Resp: 192290
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002267.D
 Acq: 04 Jun 2018 18:20

Tgt Ion: 114 Resp: 401366
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 44.85 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

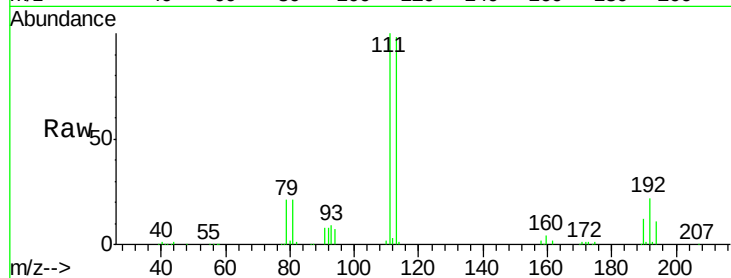
Tot Ion:113 Resp: 141549

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

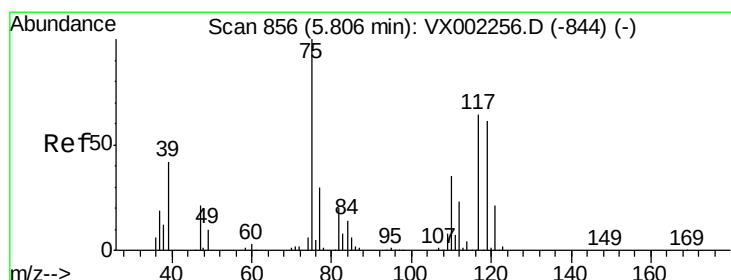
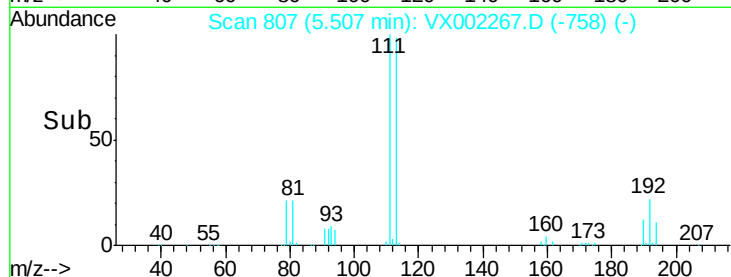
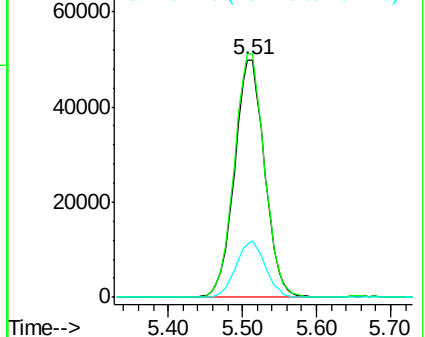
192 23.2 19.1 28.7



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: 4.66 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

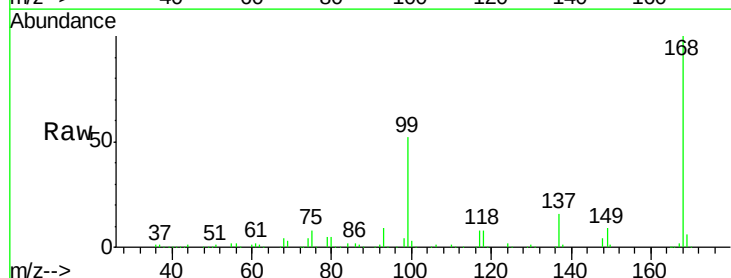
Tgt Ion: 75 Resp: 19647

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

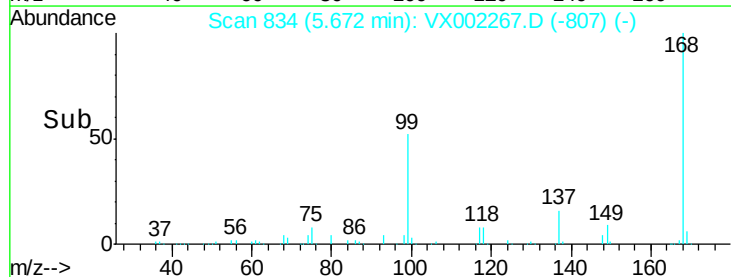
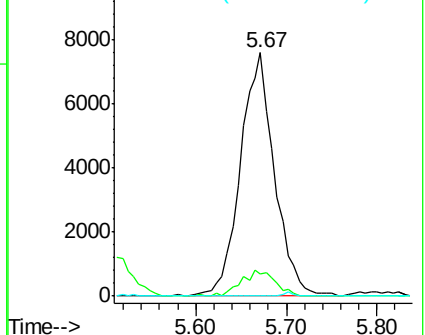
77 0.0 24.3 36.5#

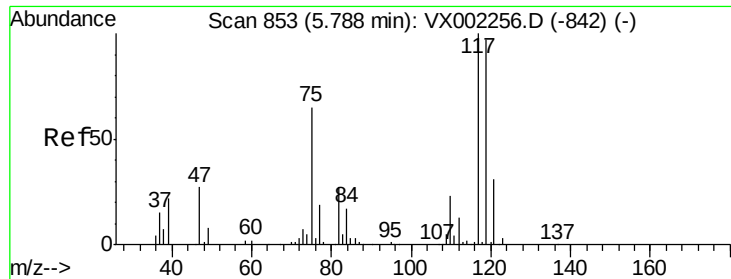


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

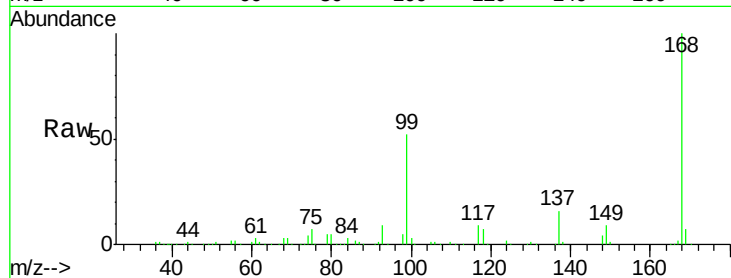




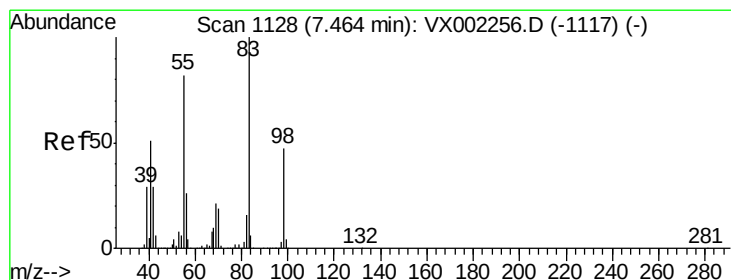
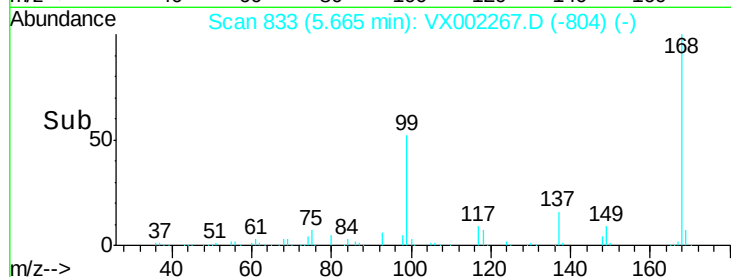
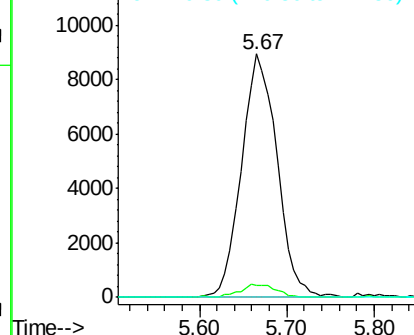
#38
Carbon Tetrachloride
Concen: 5.72 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 25253
Ion Ratio Lower Upper
117 100
119 4.8 77.4 116.0#
121 0.0 24.4 36.6#

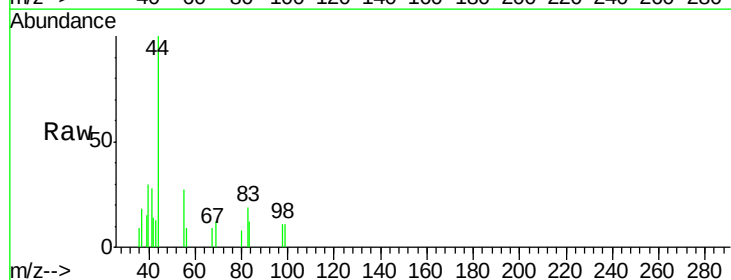


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

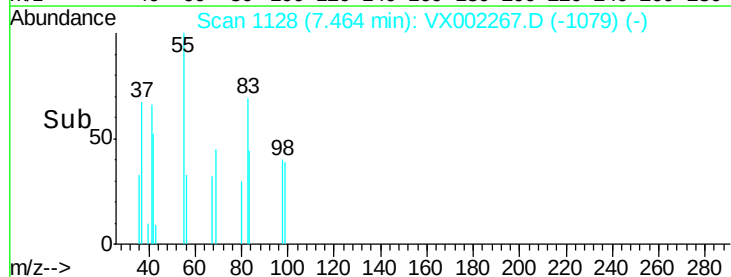
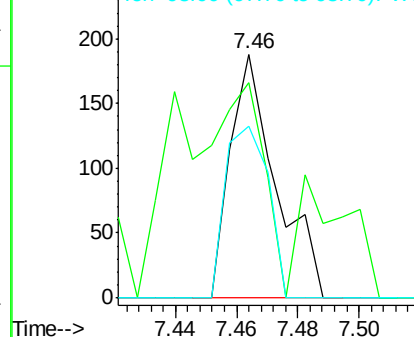


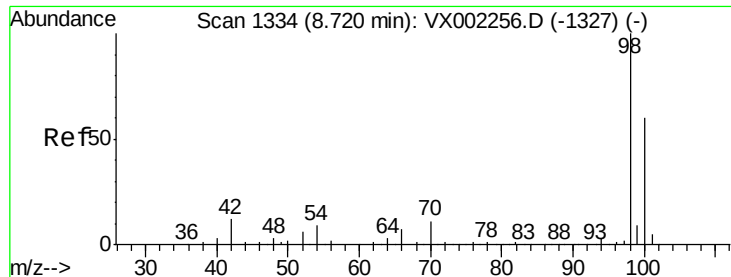
#39
Methylcyclohexane
Concen: 0.30 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Tgt Ion: 83 Resp: 193
Ion Ratio Lower Upper
83 100
55 55.3 65.4 98.0#
98 70.2 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

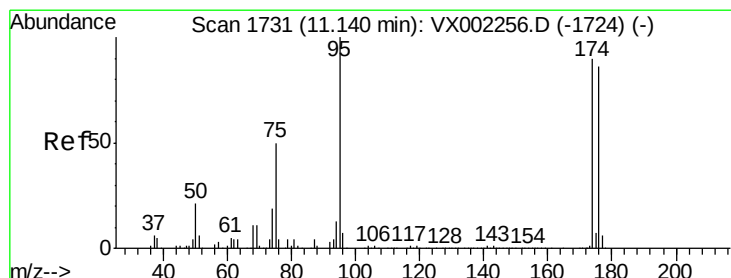
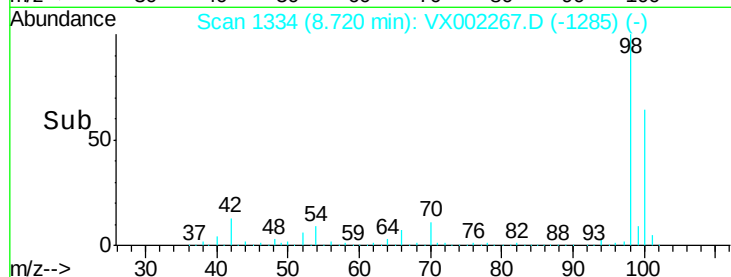
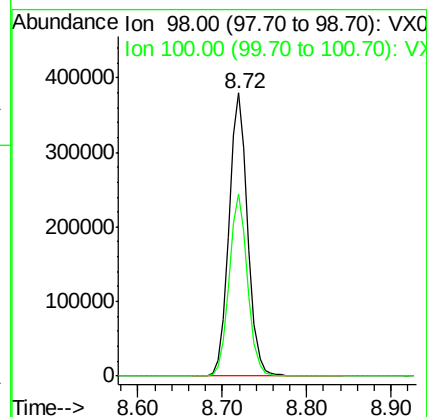
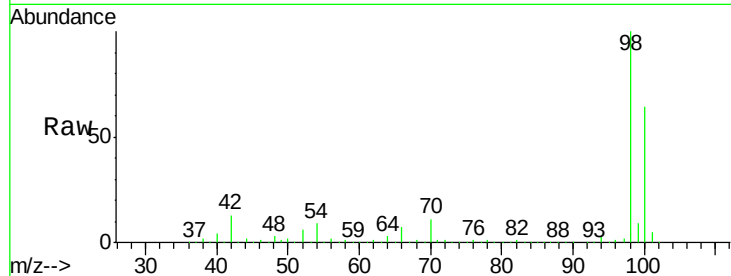




#50
Toluene-d8
Concen: 47.71 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

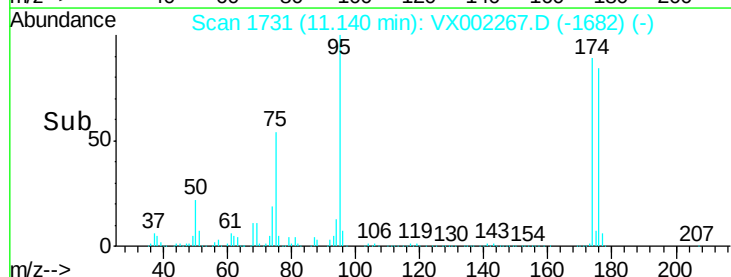
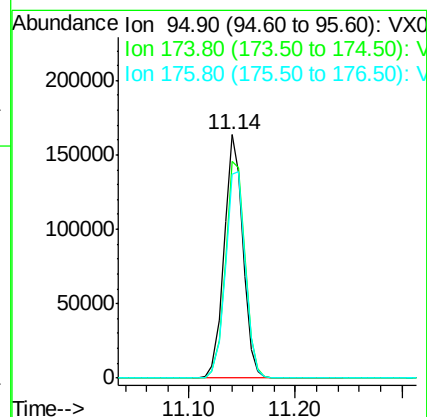
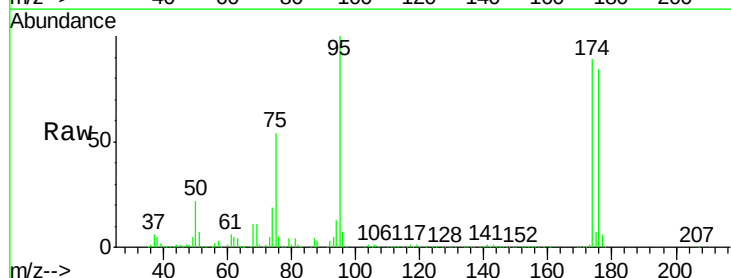
Instrument :
MSVOA_X
ClientSampleId :

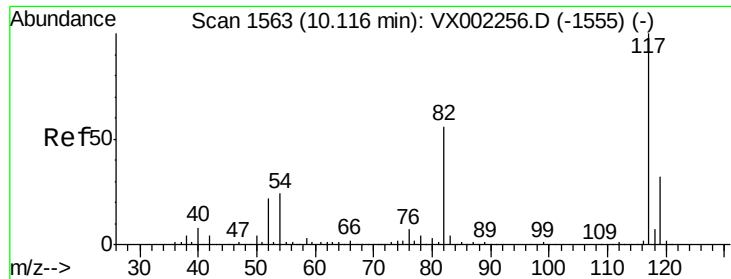
Tot Ion: 98 Resp: 577199
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.16 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002267.D
Acq: 04 Jun 2018 18:20

Tgt Ion: 95 Resp: 201333
Ion Ratio Lower Upper
95 100
174 93.5 0.0 187.4
176 90.0 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

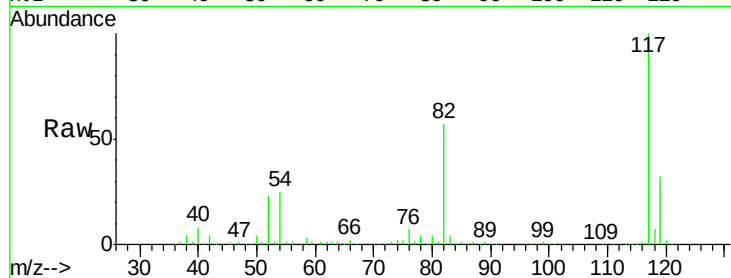
Tot Ion:117 Resp: 363255

Ion Ratio Lower Upper

117 100

82 57.5 45.0 67.4

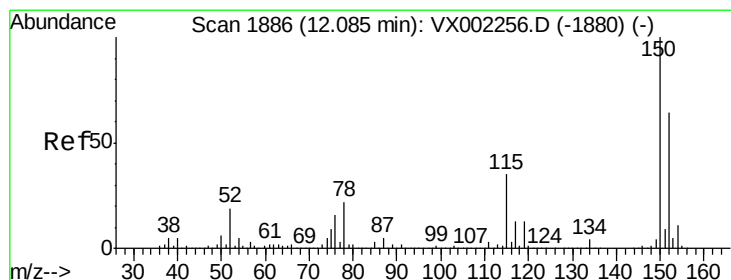
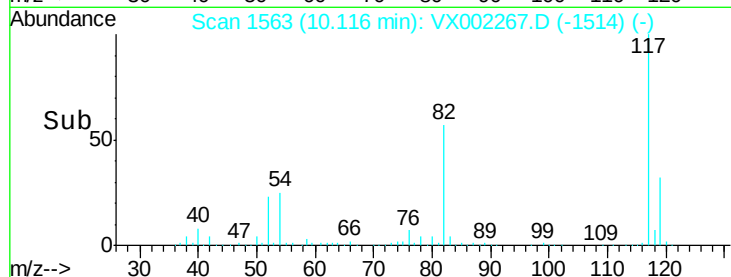
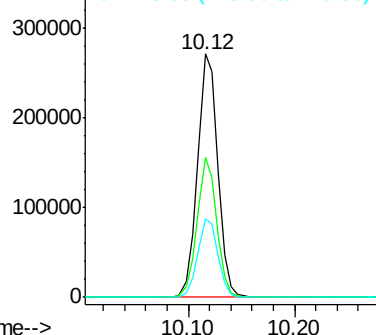
119 32.1 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002267.D

Acq: 04 Jun 2018 18:20

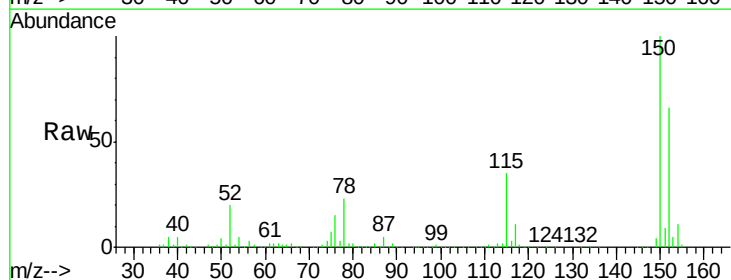
Tgt Ion:152 Resp: 206298

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

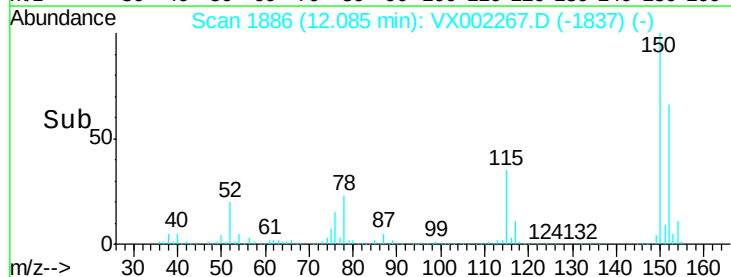
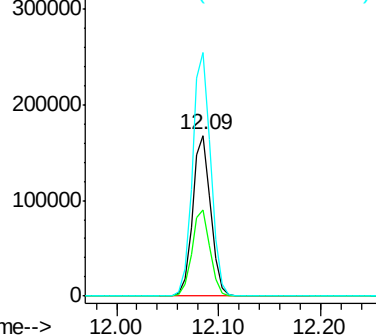
150 153.8 0.0 347.2

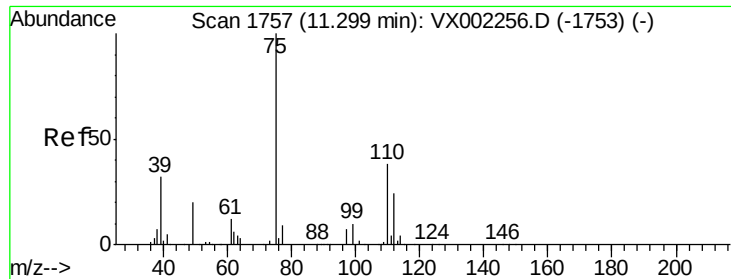


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

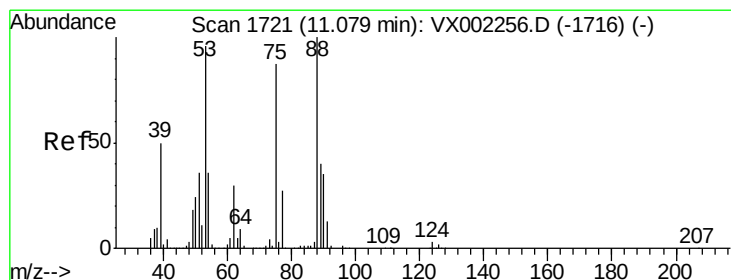
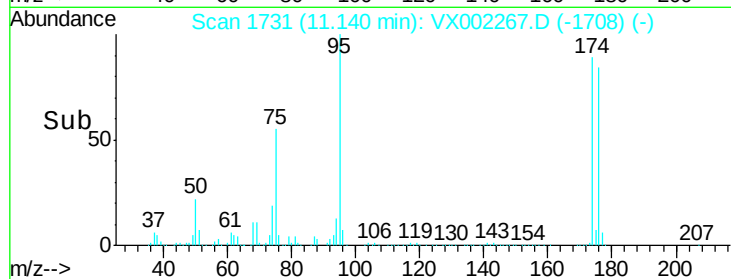
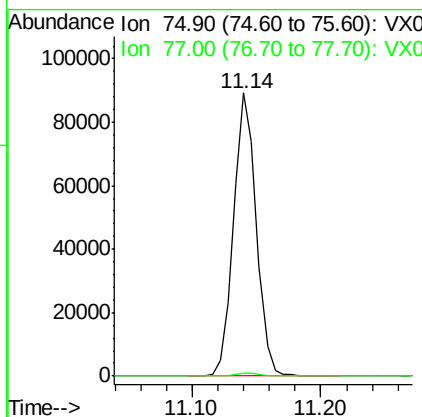
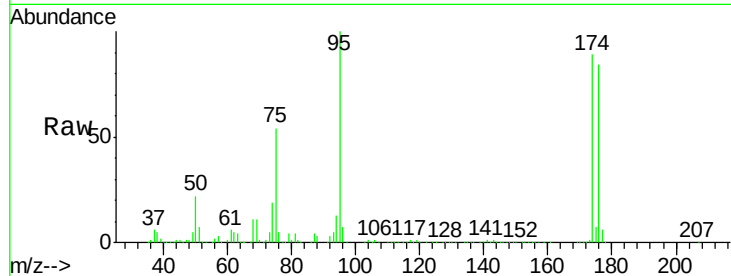




#76
 1,2,3-Trichloropropane
 Concen: 24.19 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002267.D
 Acq: 04 Jun 2018 18:20

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 109502
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.79 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002267.D
 Acq: 04 Jun 2018 18:20

Tgt Ion: 75 Resp: 109502
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

