

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\
 Data File : VX002418.D
 Acq On : 09 Jun 2018 11:37
 Operator : JC/MD
 Sample : VX0609WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 11 04:04:35 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	238217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	351733	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	325410	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	184771	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	186198	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
35) Dibromofluoromethane	5.51	113	141874	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
50) Toluene-d8	8.72	98	545111	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
62) 4-Bromofluorobenzene	11.14	95	191053	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	

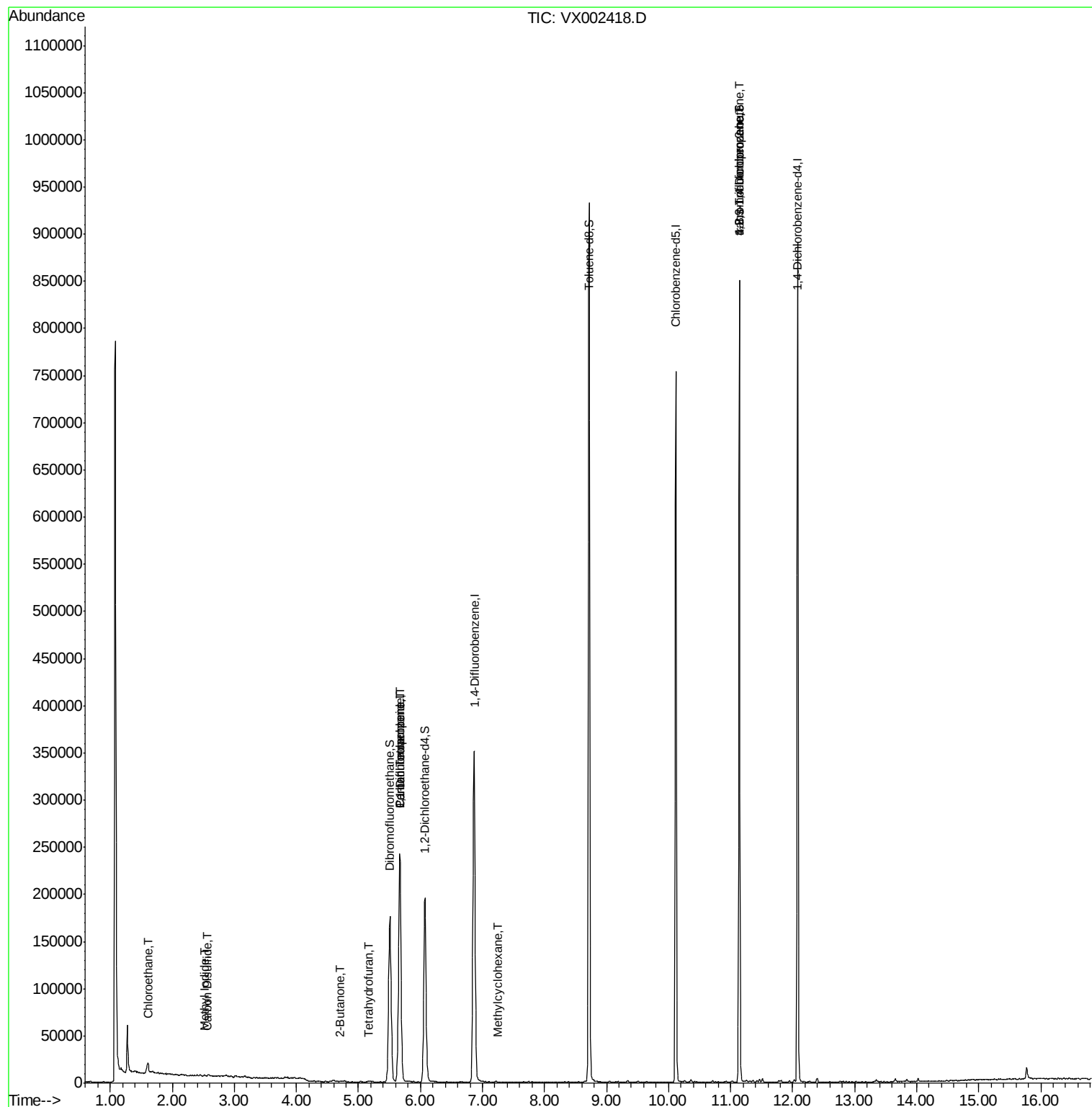
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	436	Below Cal		98
5) Bromomethane	1.65	94	799	Below Cal	#	77
6) Chloroethane	1.61	64	3614	1.79	ug/l	# 60
8) Diethyl Ether	2.19	74	211	Below Cal		81
10) Methyl Iodide	2.51	142	1192	0.33	ug/l	# 85
11) Tert butyl alcohol	3.02	59	1168	Below Cal	#	76
13) Acrolein	2.29	56	275	Below Cal	#	58
15) Acrylonitrile	3.14	53	877	Below Cal		96
16) Acetone	2.44	43	1114	Below Cal		97
17) Carbon Disulfide	2.57	76	1684	0.25	ug/l	95
18) Methyl Acetate	2.78	43	858	Below Cal	#	61
19) Methyl tert-butyl Ether	3.21	73	330	Below Cal	#	84
20) Methylene Chloride	2.87	84	555	Below Cal		84
22) Diisopropyl ether	3.85	45	299	Below Cal	#	57
25) 2-Butanone	4.71	43	664	0.28	ug/l	96
28) Bromochloromethane	5.01	49	64	Below Cal	#	13
29) Tetrahydrofuran	5.16	42	627	0.42	ug/l	# 90
36) 1,1-Dichloropropene	5.66	75	16610	4.49	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	22064	5.70	ug/l	# 16
39) Methylcyclohexane	7.24	83	20	0.27	ug/l	# 58
76) 1,2,3-Trichloropropane	11.14	75	104130	25.68	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	104130	90.03	ug/l	# 7

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

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ClientSampleId :

Quant Time: Jun 11 04:04:35 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: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

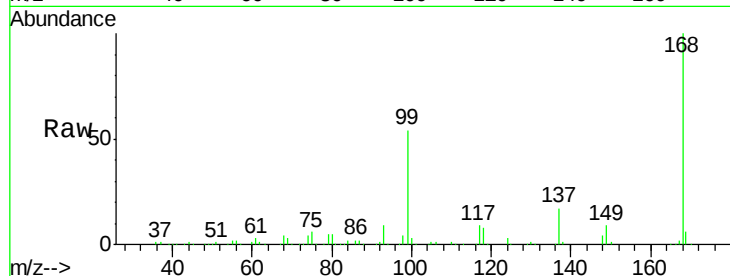
ClientSampled :

Tot Ion:168 Resp: 238217

Ion Ratio Lower Upper

168 100

99 53.5 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

80000

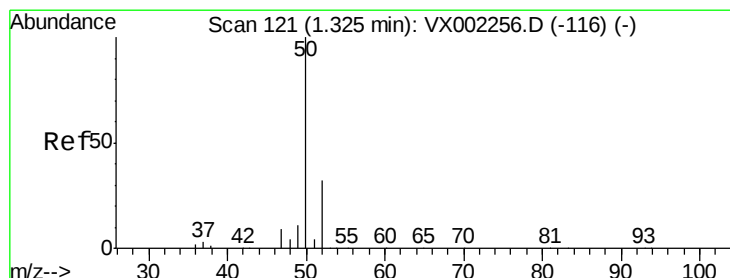
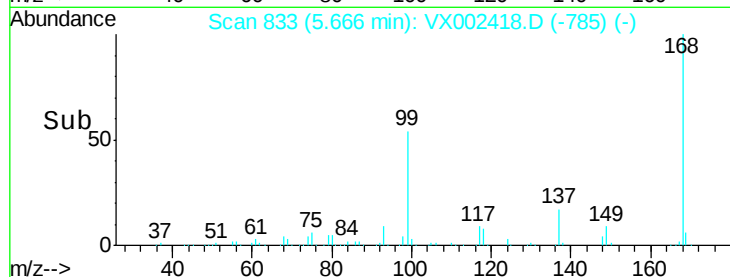
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.34 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX002418.D

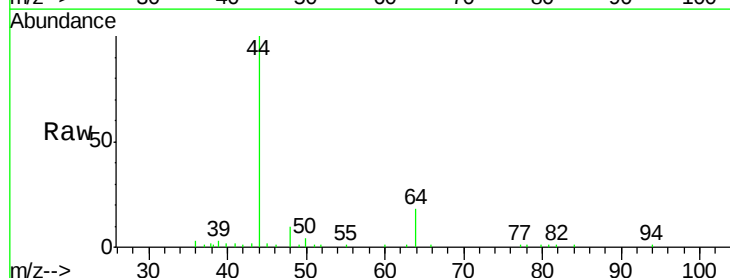
Acq: 09 Jun 2018 11:37

Tgt Ion: 50 Resp: 436

Ion Ratio Lower Upper

50 100

52 33.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

400

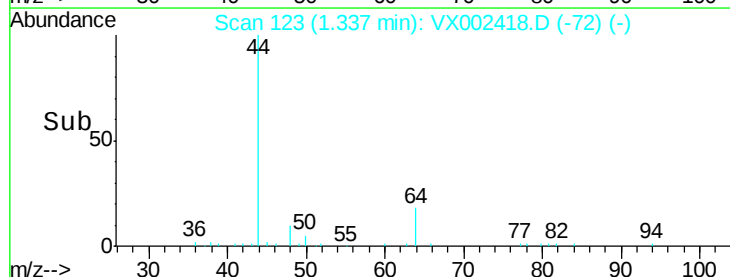
300

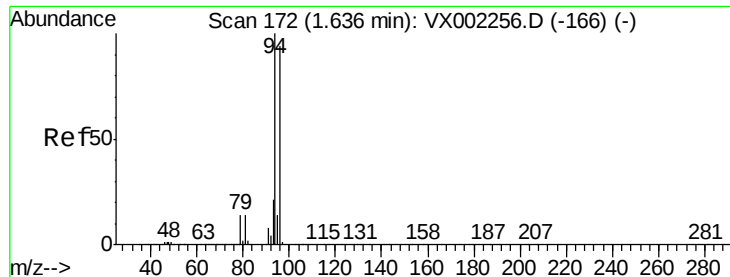
200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

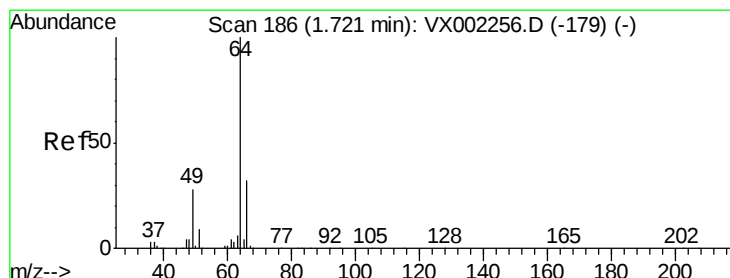
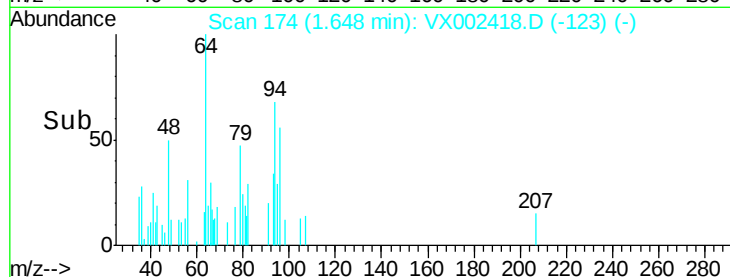
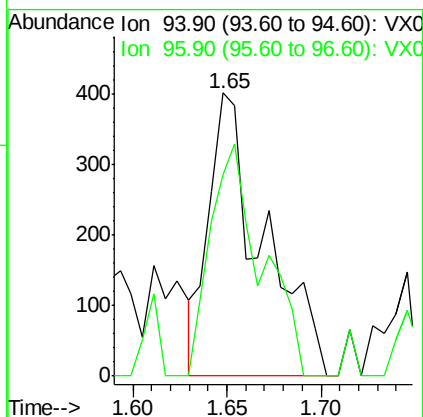
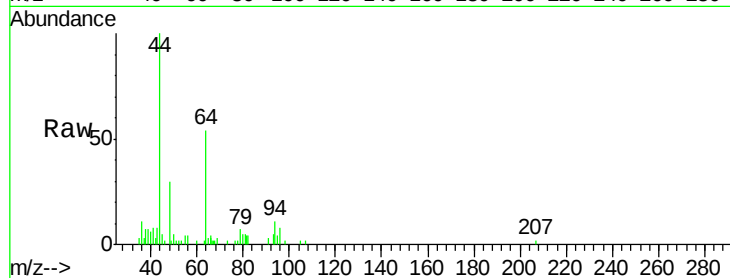
ClientSampleId :

Tot Ion: 94 Resp: 799

Ion Ratio Lower Upper

94 100

96 71.1 74.9 112.3#



#6

Chloroethane

Concen: 1.79 ug/l

RT: 1.61 min Scan# 168

Delta R.T. -0.11 min

Lab File: VX002418.D

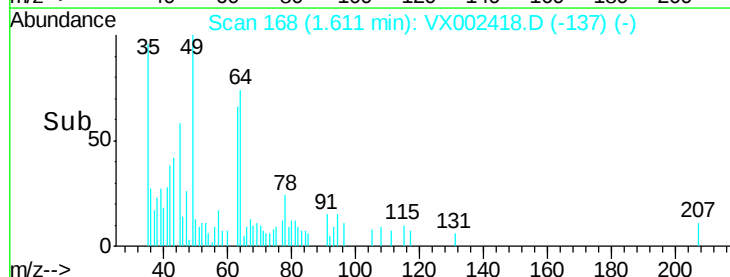
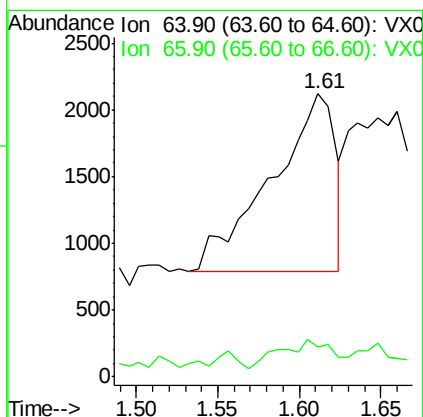
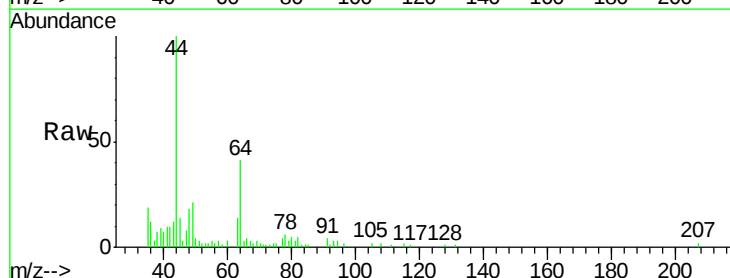
Acq: 09 Jun 2018 11:37

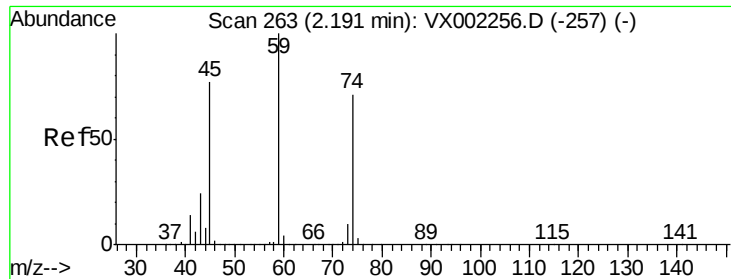
Tgt Ion: 64 Resp: 3614

Ion Ratio Lower Upper

64 100

66 9.5 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

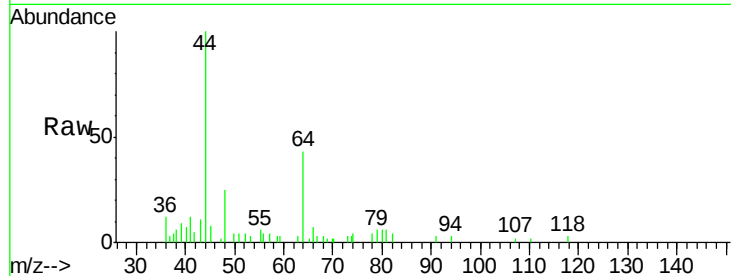
ClientSampleId :

Tot Ion: 74 Resp: 211

Ion Ratio Lower Upper

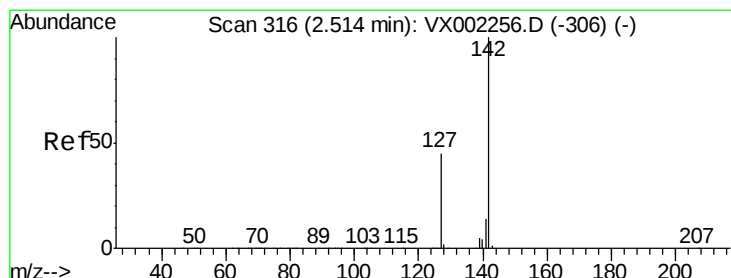
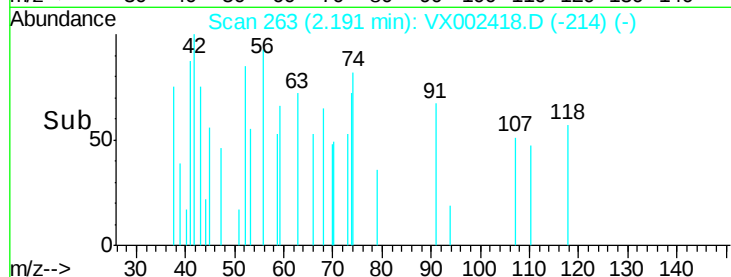
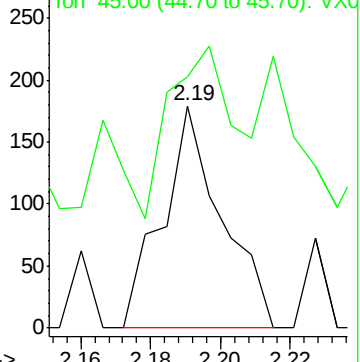
74 100

45 86.3 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: 0.33 ug/l

RT: 2.51 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

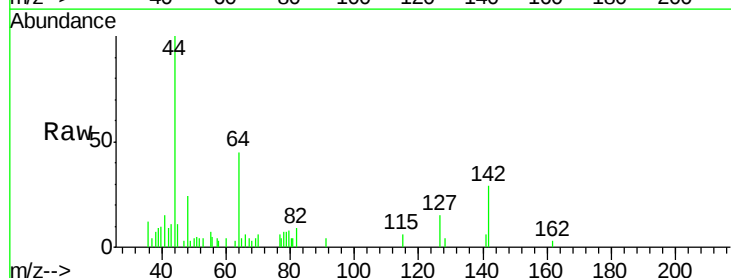
Tgt Ion: 142 Resp: 1192

Ion Ratio Lower Upper

142 100

127 57.6 36.6 55.0#

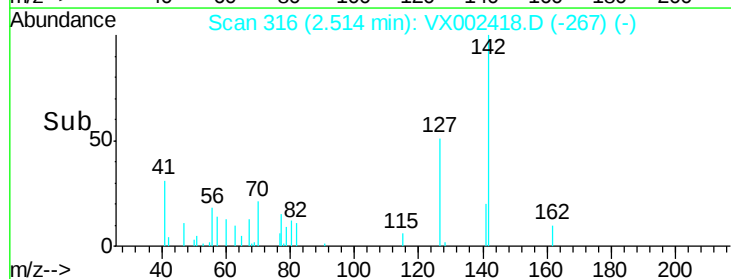
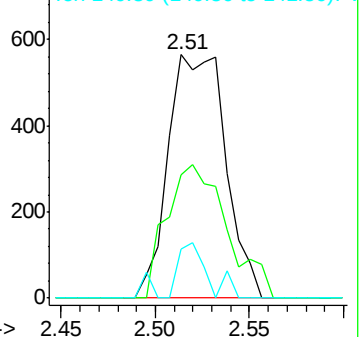
141 11.6 11.3 16.9

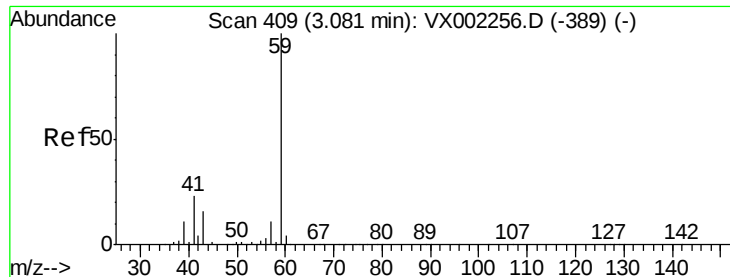


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



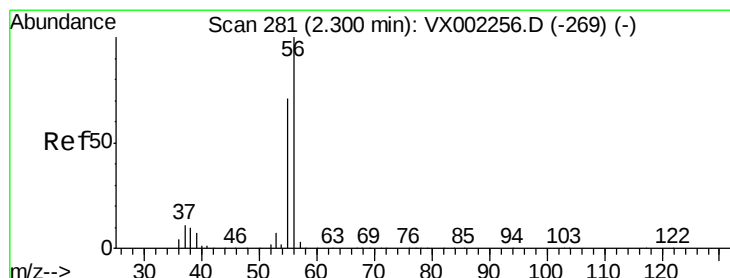
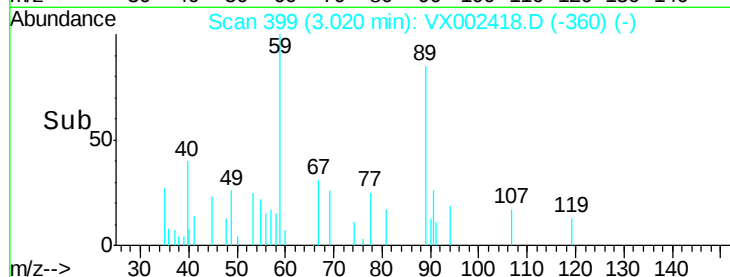
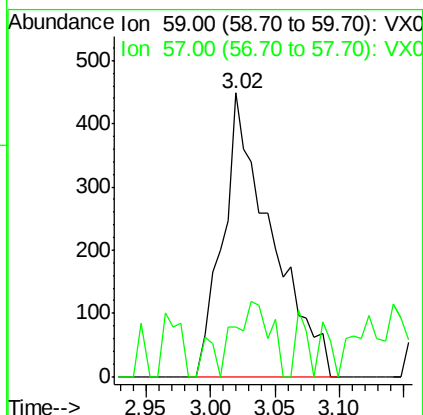
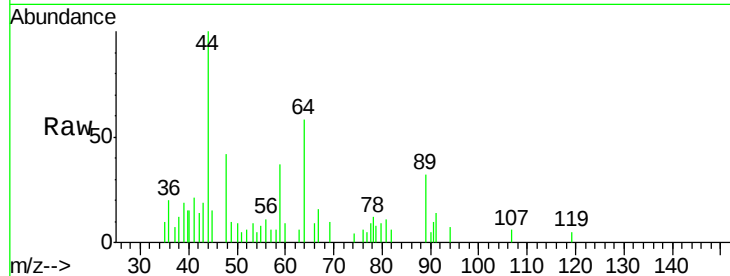


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002418.D
Acq: 09 Jun 2018 11:37

Instrument :
MSVOA_X
ClientSampled :

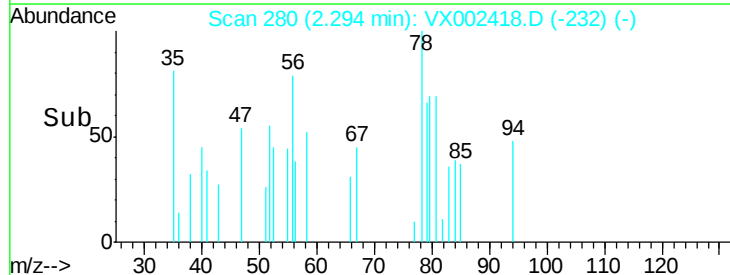
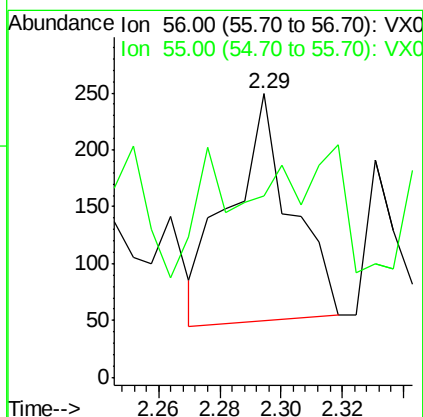
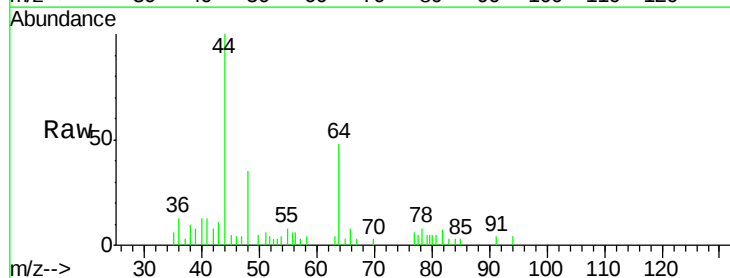
Tot Ion: 59 Resp: 1168
Ion Ratio Lower Upper
59 100
57 19.1 8.2 12.2#

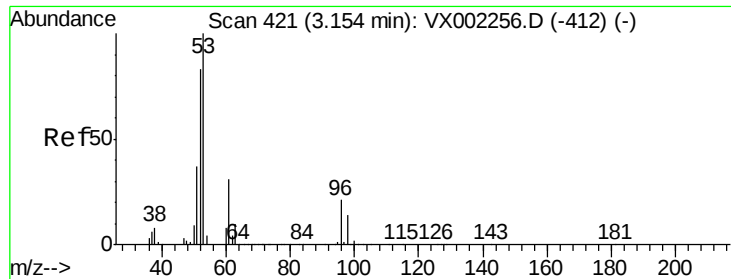


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002418.D
Acq: 09 Jun 2018 11:37

Tgt Ion: 56 Resp: 275
Ion Ratio Lower Upper
56 100
55 36.4 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

ClientSampled :

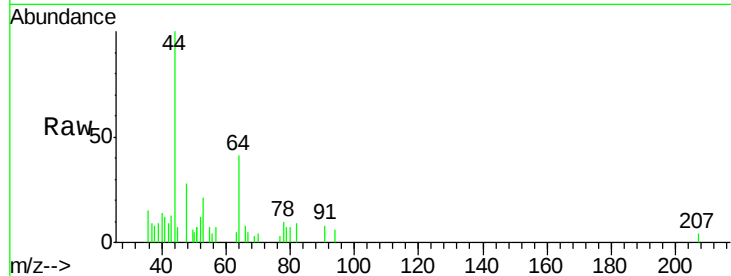
Tot Ion: 53 Resp: 877

Ion Ratio Lower Upper

53 100

52 84.9 66.7 100.1

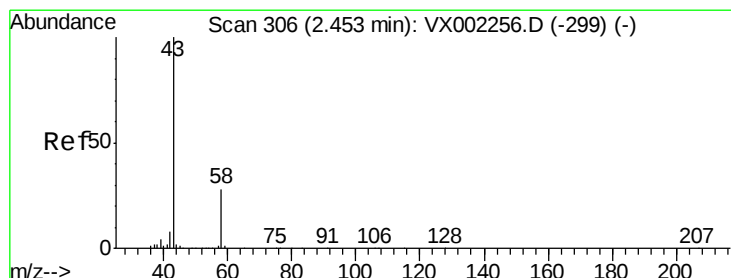
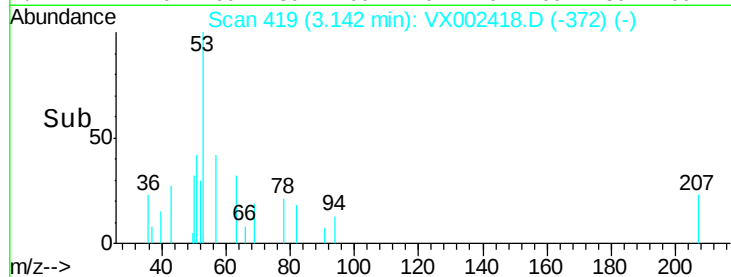
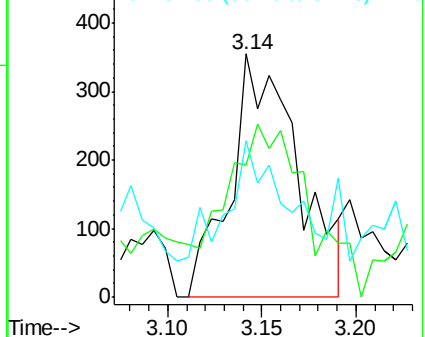
51 42.1 29.9 44.9



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX002418.D

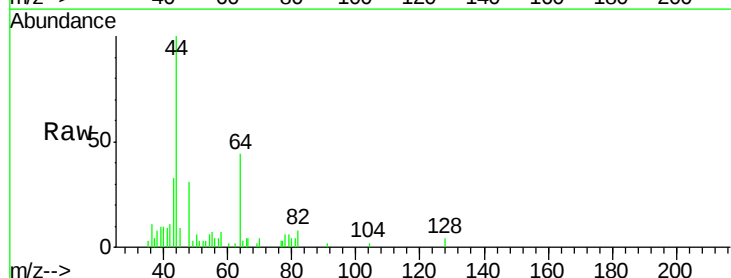
Acq: 09 Jun 2018 11:37

Tgt Ion: 43 Resp: 1114

Ion Ratio Lower Upper

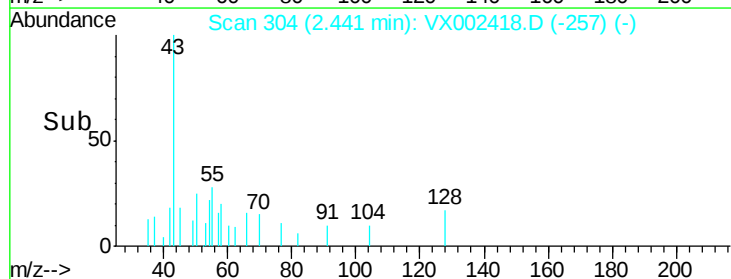
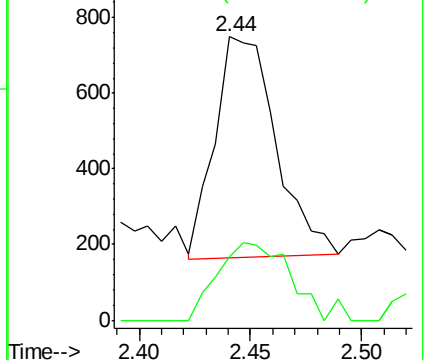
43 100

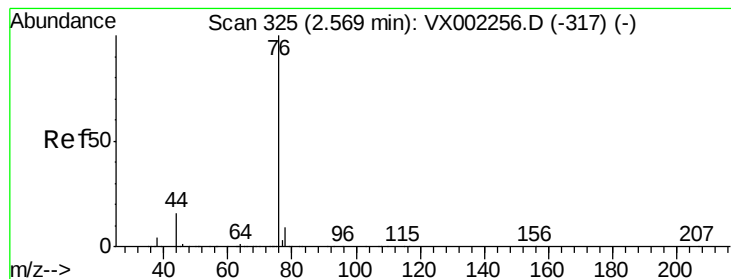
58 29.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

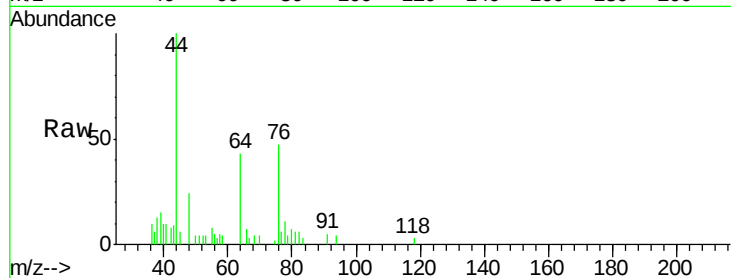
ClientSampleId :

Tot Ion: 76 Resp: 1684

Ion Ratio Lower Upper

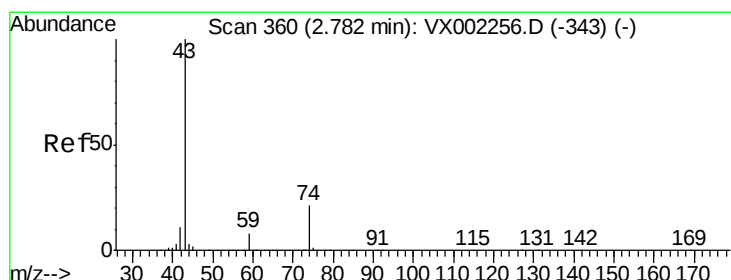
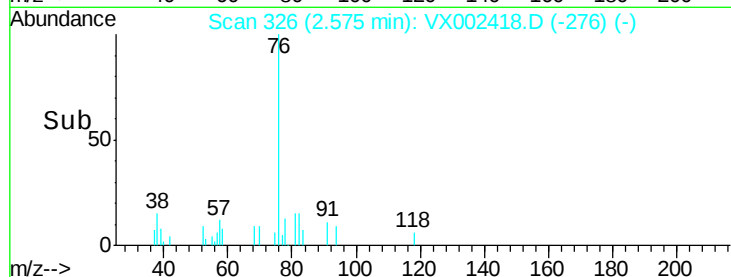
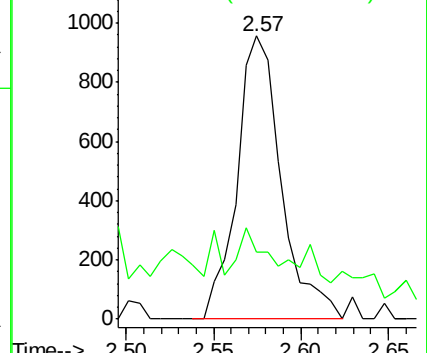
76 100

78 6.9 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: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002418.D

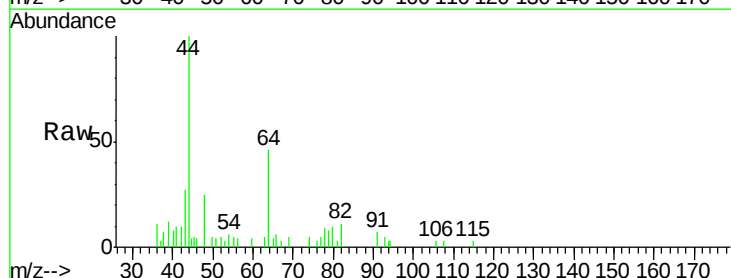
Acq: 09 Jun 2018 11:37

Tgt Ion: 43 Resp: 858

Ion Ratio Lower Upper

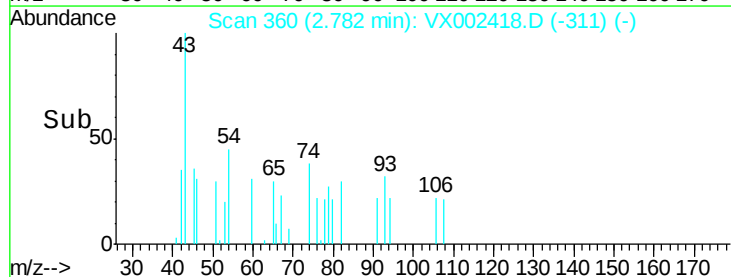
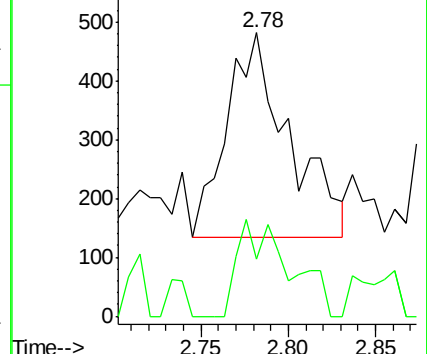
43 100

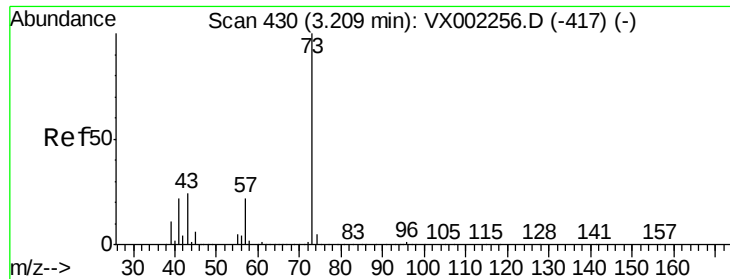
74 39.0 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

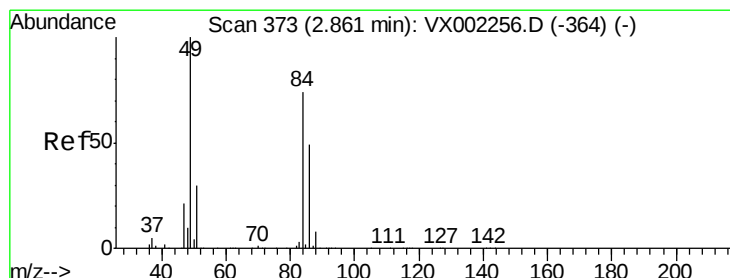
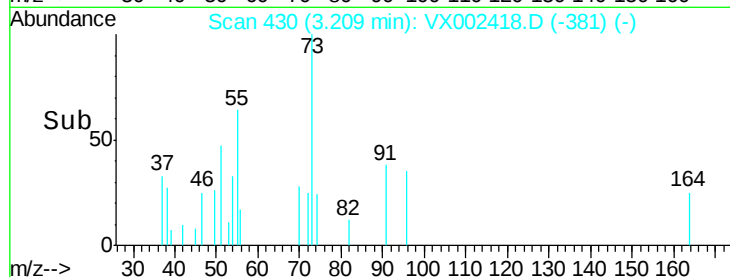
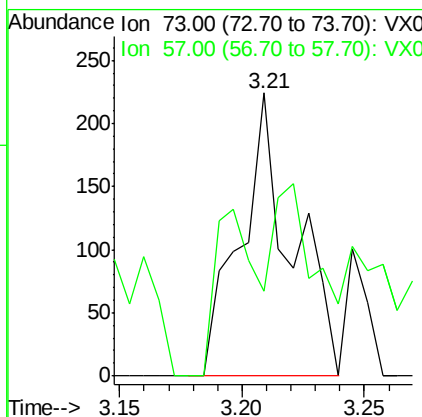
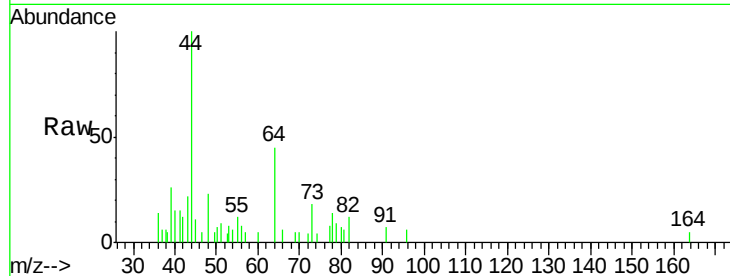




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002418.D
Acq: 09 Jun 2018 11:37

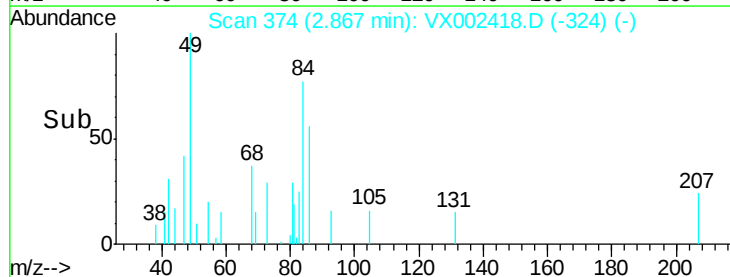
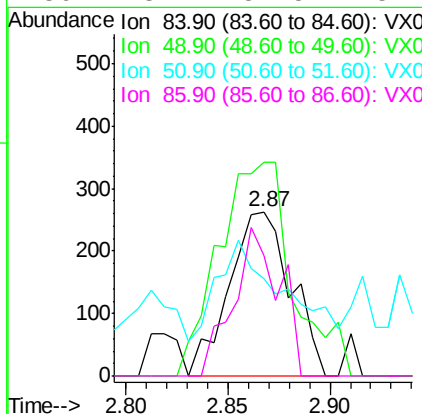
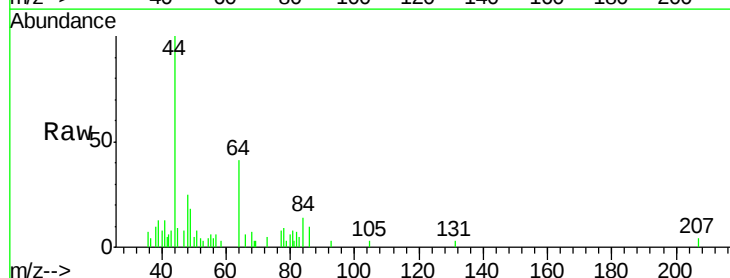
Instrument :
MSVOA_X
ClientSampleId :

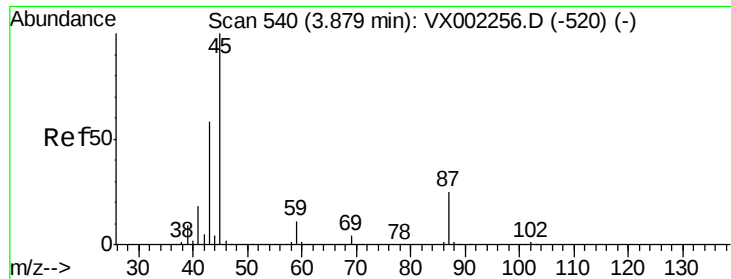
Tot Ion: 73 Resp: 330
Ion Ratio Lower Upper
73 100
57 29.9 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002418.D
Acq: 09 Jun 2018 11:37

Tgt Ion: 84 Resp: 555
Ion Ratio Lower Upper
84 100
49 109.1 107.8 161.6
51 37.6 32.8 49.2
86 73.4 52.5 78.7



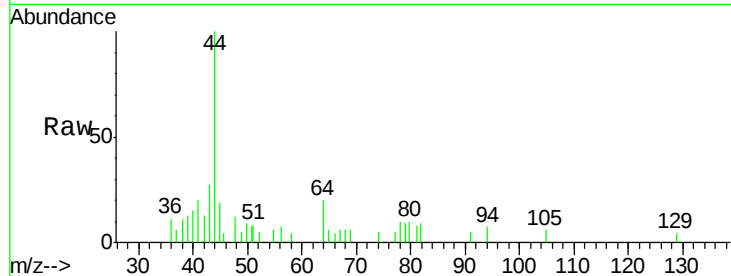


#22

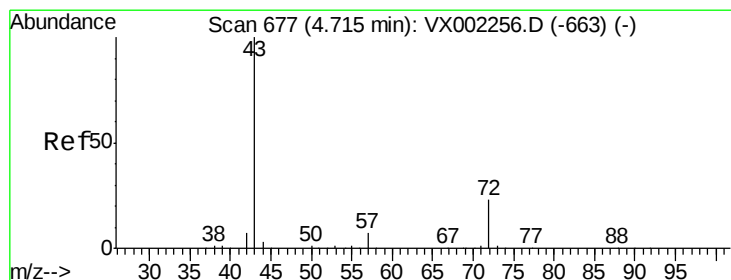
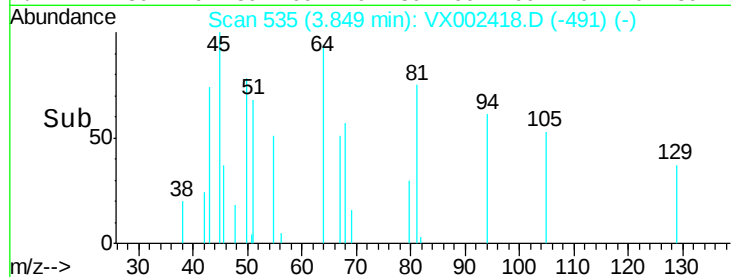
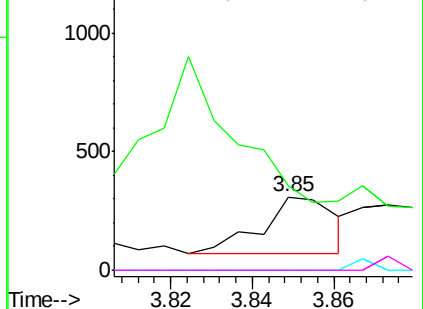
Diisopropyl ether
 Concen: Below Cal
 RT: 3.85 min Scan# 535
 Delta R.T. -0.03 min
 Lab File: VX002418.D
 Acq: 09 Jun 2018 11:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:	45	Resp:	299
Ion	Ratio	Lower	Upper
45	100		
43	27.3	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



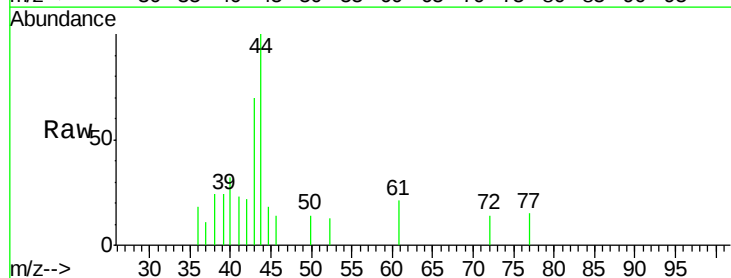
Abundance Ion 45.00 (44.70 to 45.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0
 Ion 59.00 (58.70 to 59.70): VX0



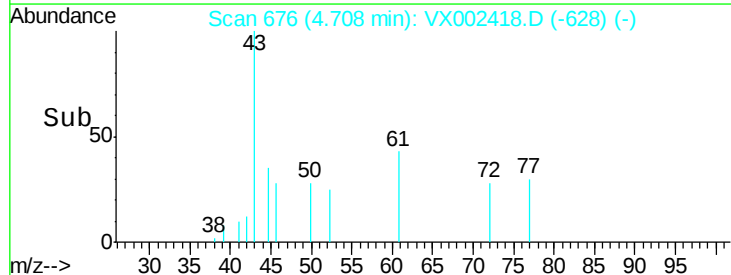
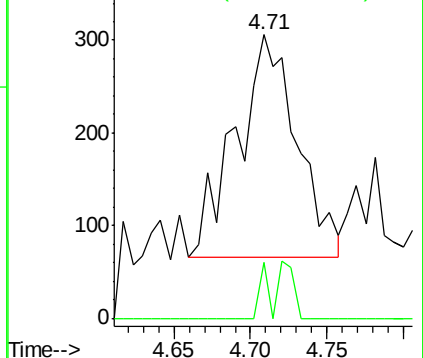
#25

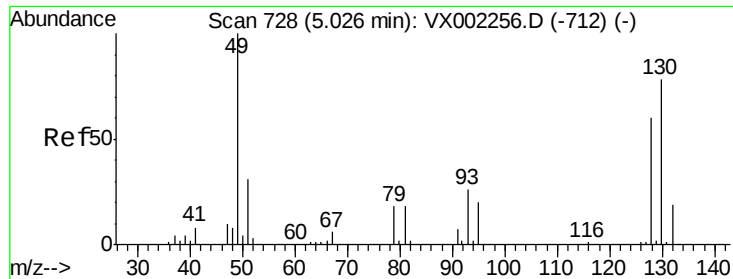
2-Butanone
 Concen: 0.28 ug/l
 RT: 4.71 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VX002418.D
 Acq: 09 Jun 2018 11:37

Tgt Ion:	43	Resp:	664
Ion	Ratio	Lower	Upper
43	100		
72	25.0	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: 5.01 min Scan# 726

Delta R.T. -0.01 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

ClientSampled :

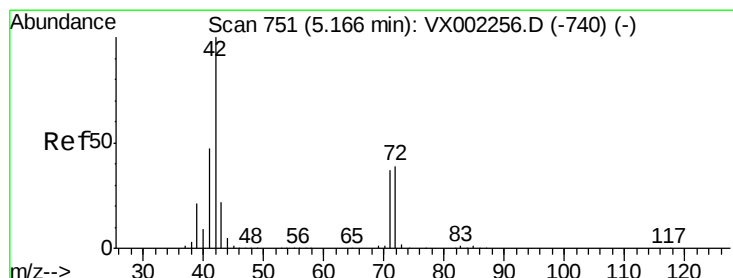
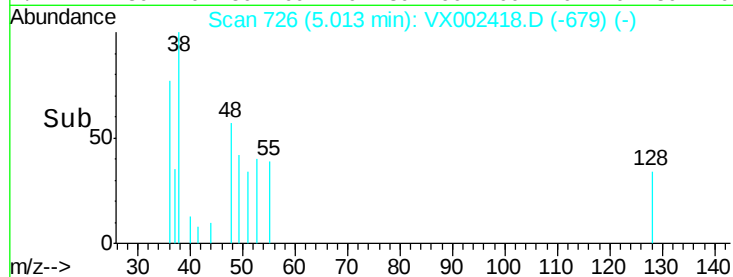
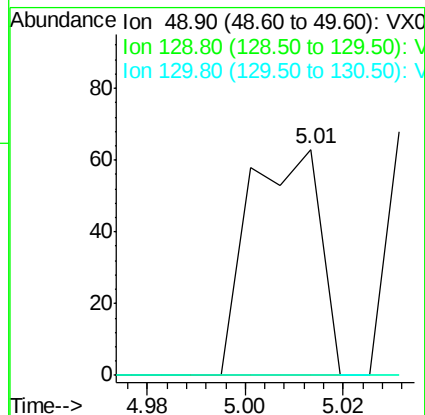
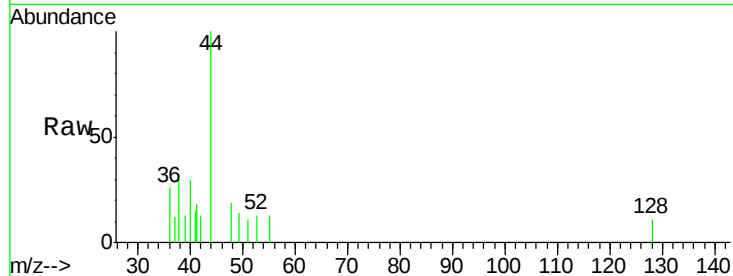
Tot Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.42 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

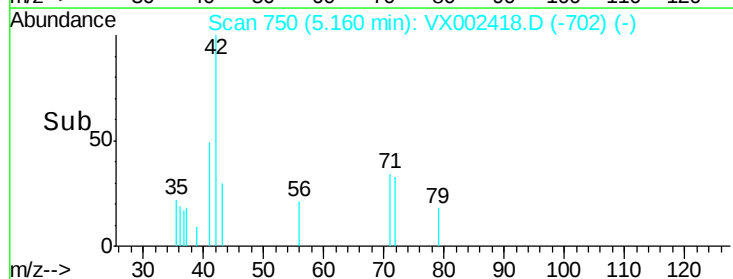
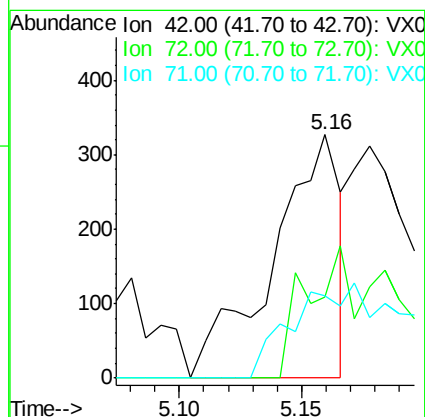
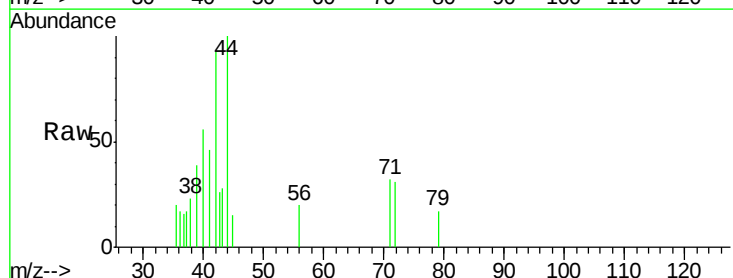
Tgt Ion: 42 Resp: 627

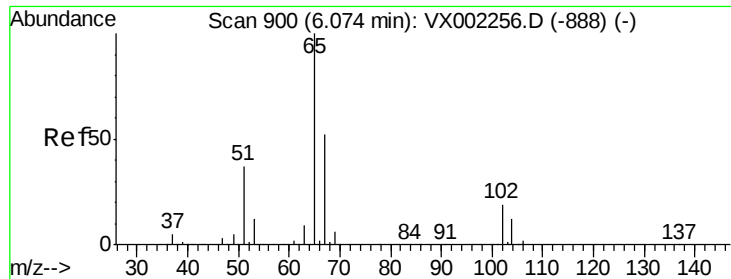
Ion Ratio Lower Upper

42 100

72 35.4 32.0 48.0

71 29.8 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 55.01 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

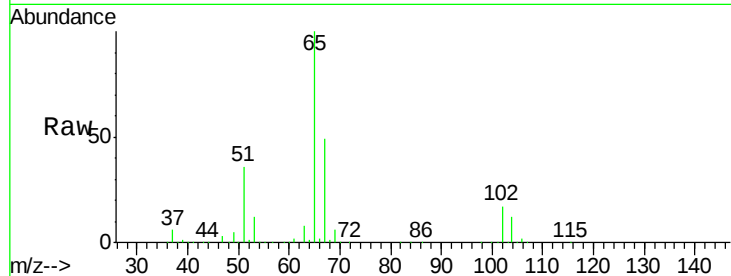
ClientSampleId :

Tot Ion: 65 Resp: 186198

Ion Ratio Lower Upper

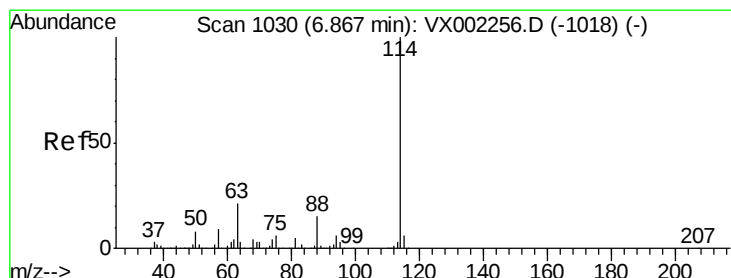
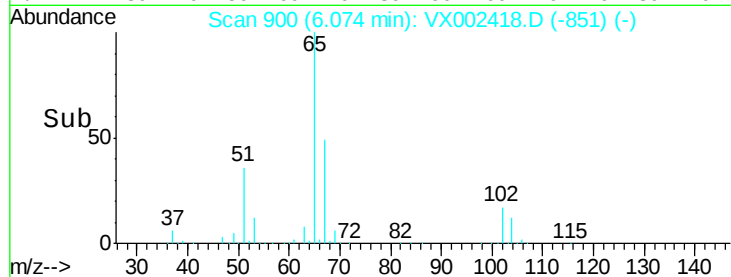
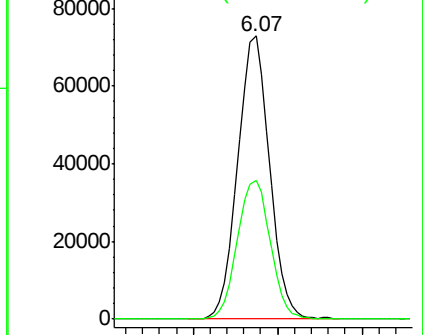
65 100

67 51.0 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: VX002418.D

Acq: 09 Jun 2018 11:37

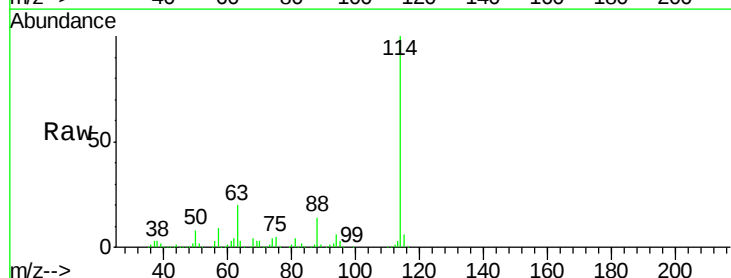
Tgt Ion: 114 Resp: 351733

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

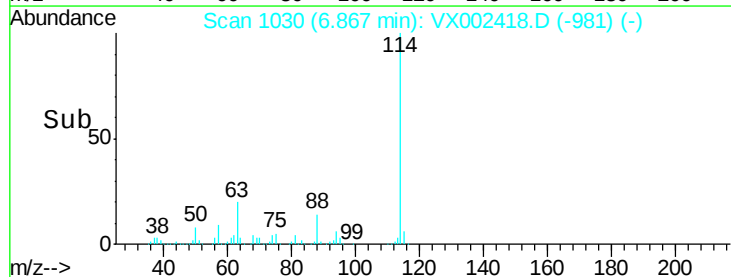
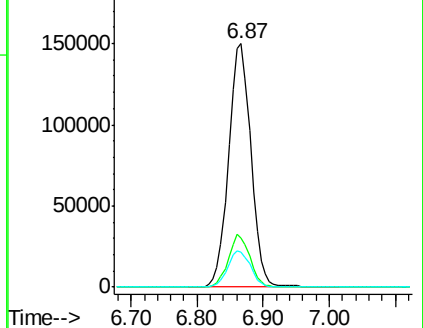
88 14.3 0.0 30.0

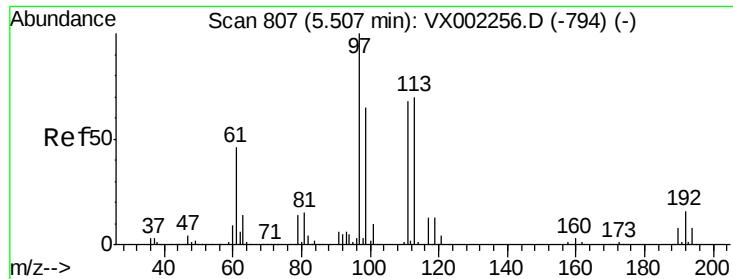


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.29 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :
MSVOA_X
ClientSampleId :

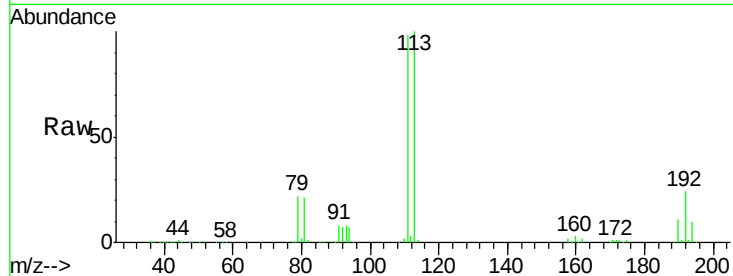
Tot Ion:113 Resp: 141874

Ion Ratio Lower Upper

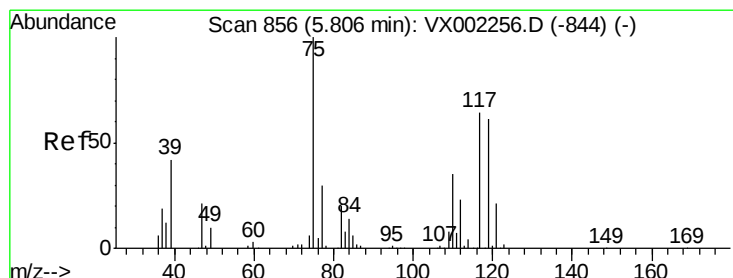
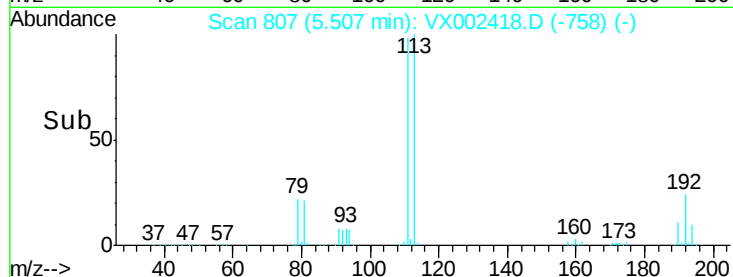
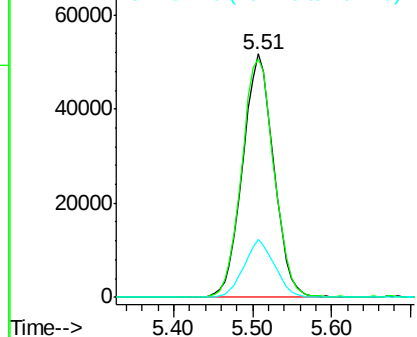
113 100

111 101.9 81.4 122.0

192 23.3 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: 4.49 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.15 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

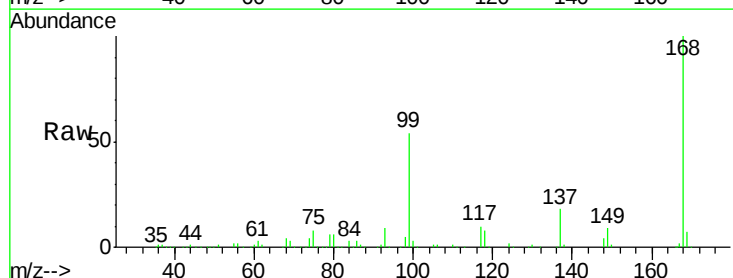
Tgt Ion: 75 Resp: 16610

Ion Ratio Lower Upper

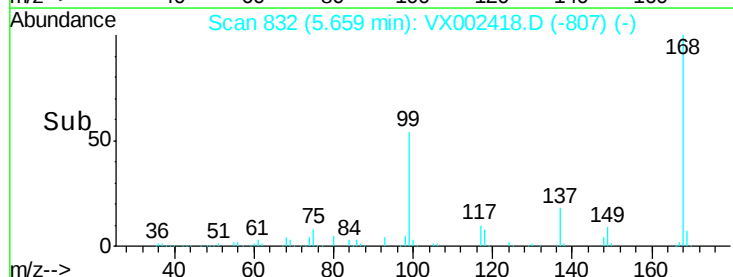
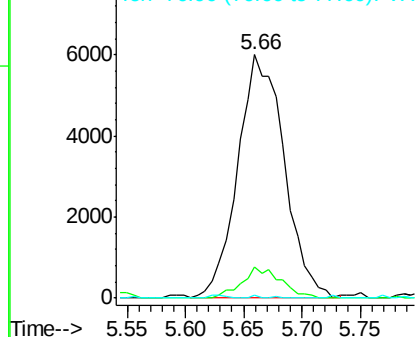
75 100

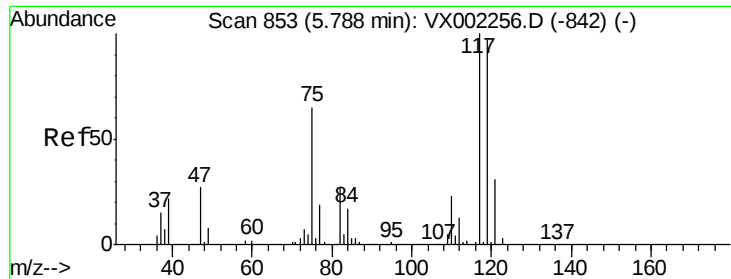
110 10.7 18.1 54.4#

77 0.1 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: 5.70 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

ClientSampled :

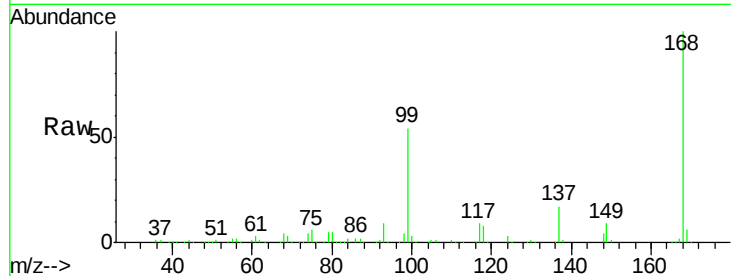
Tot Ion:117 Resp: 22064

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

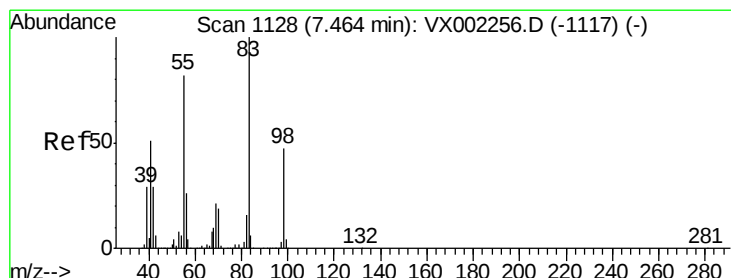
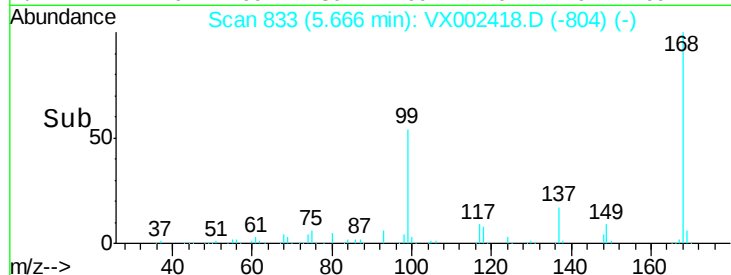
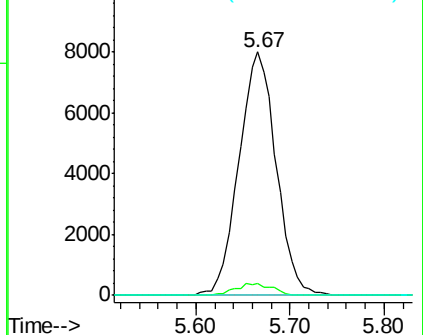
121 0.0 24.4 36.6#



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: 0.27 ug/l

RT: 7.24 min Scan# 1091

Delta R.T. -0.23 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

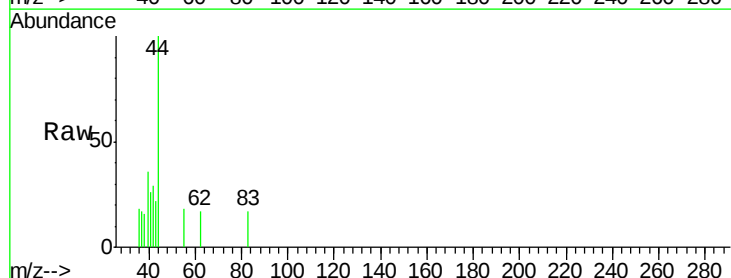
Tgt Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

55 105.4 65.4 98.0#

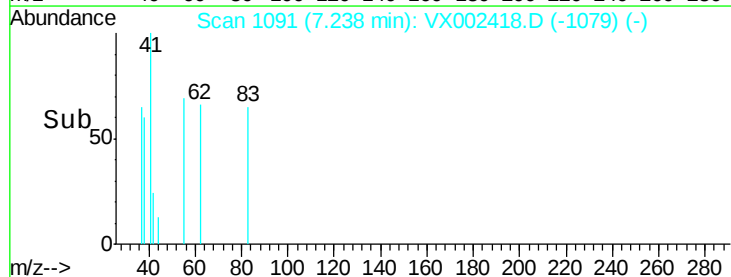
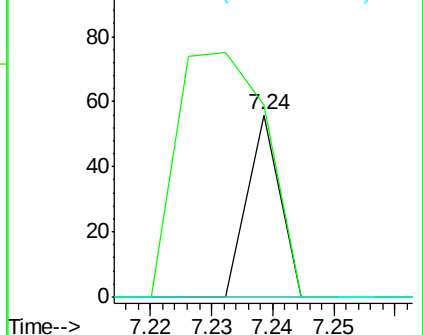
98 0.0 37.4 56.0#

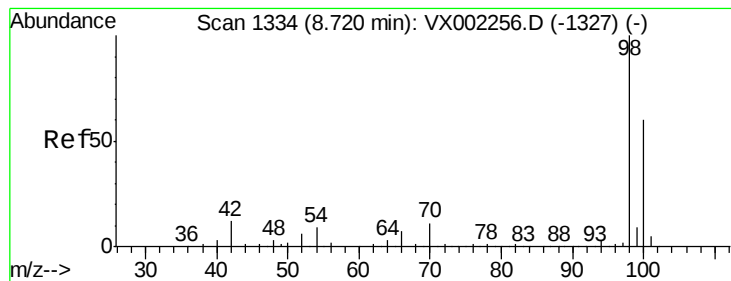


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 51.42 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

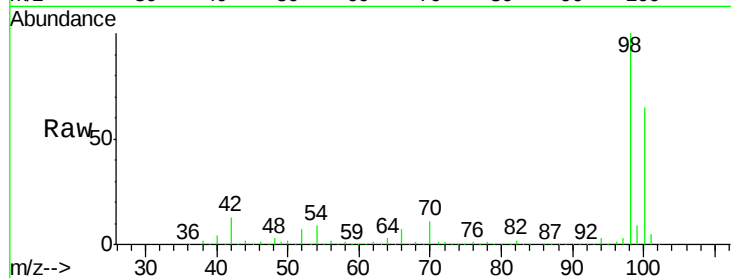
ClientSampleId :

Tot Ion: 98 Resp: 545111

Ion Ratio Lower Upper

98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

300000

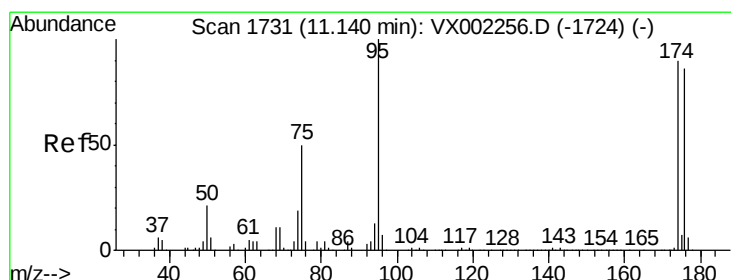
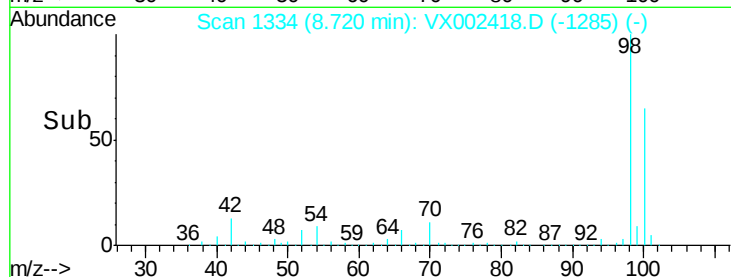
200000

100000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

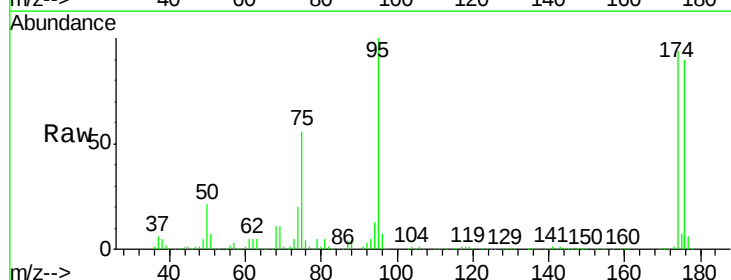
Tgt Ion: 95 Resp: 191053

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.4

176 92.1 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

200000

150000

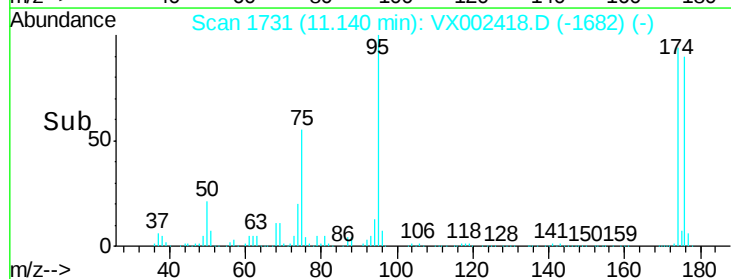
100000

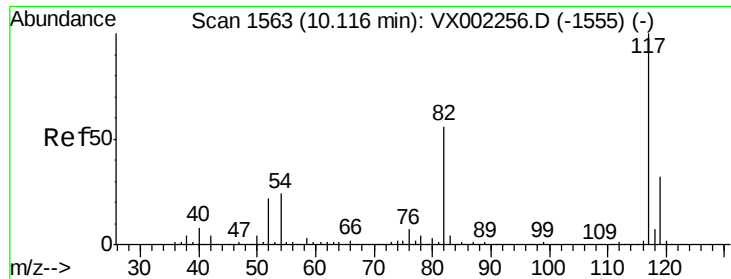
50000

0

Time-->

11.10 11.20

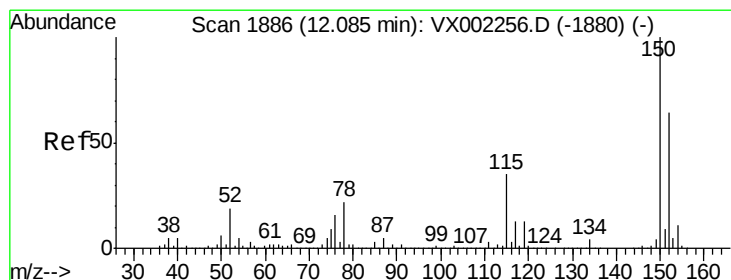
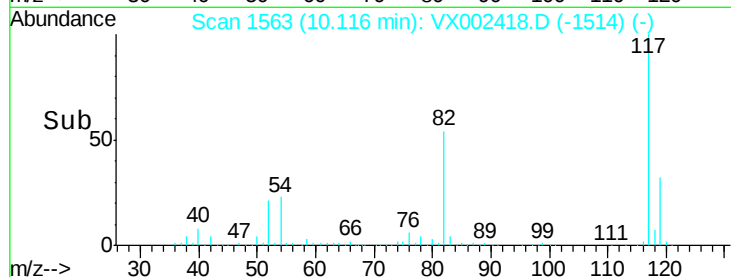
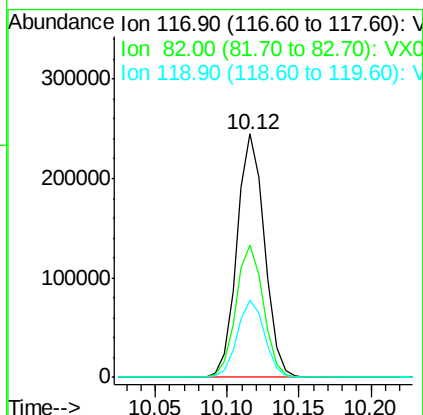
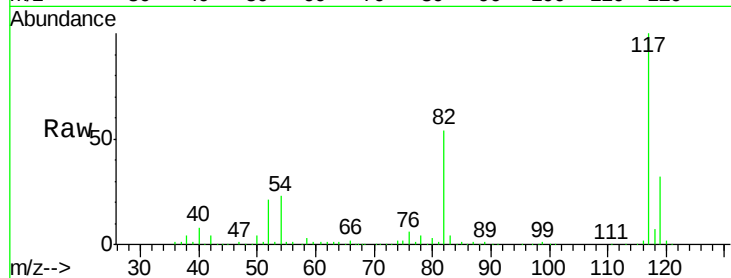




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002418.D
Acq: 09 Jun 2018 11:37

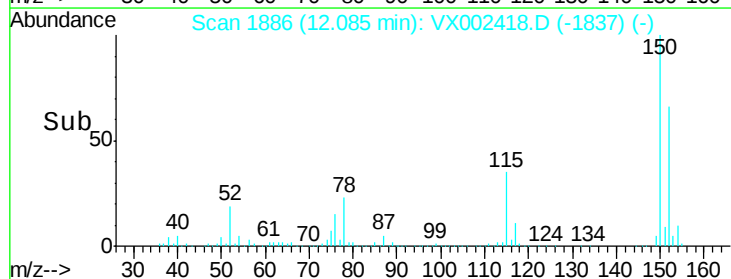
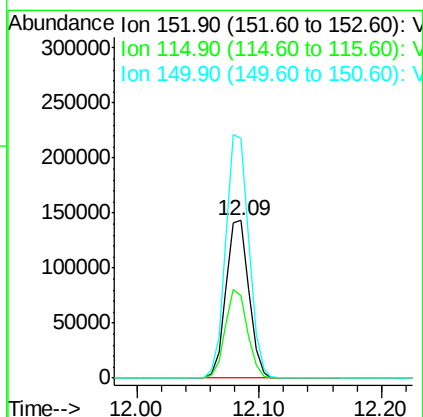
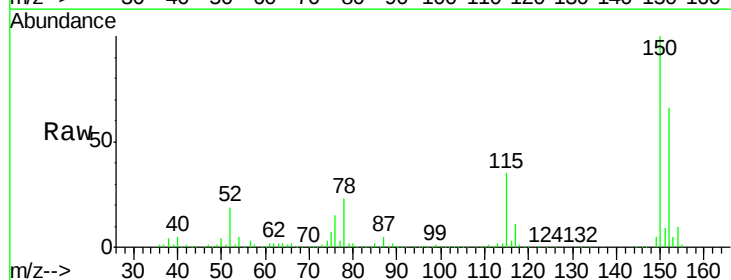
Instrument :
MSVOA_X
ClientSampleId :

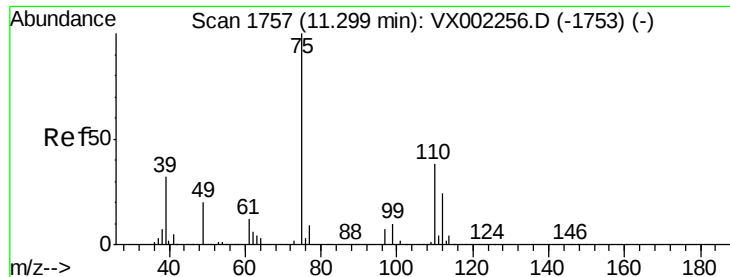
Tot Ion:117 Resp: 325410
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 31.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002418.D
Acq: 09 Jun 2018 11:37

Tgt Ion:152 Resp: 184771
Ion Ratio Lower Upper
152 100
115 54.7 40.1 120.2
150 155.5 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 25.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

Instrument :

MSVOA_X

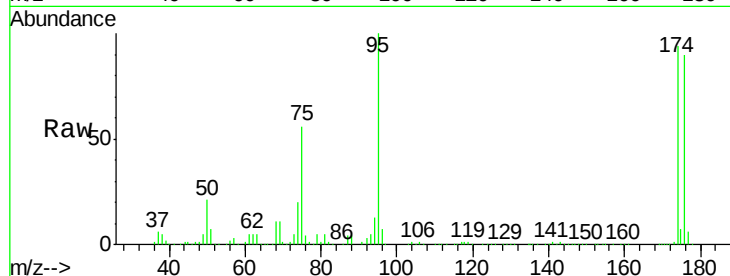
ClientSampleId :

Tot Ion: 75 Resp: 104130

Ion Ratio Lower Upper

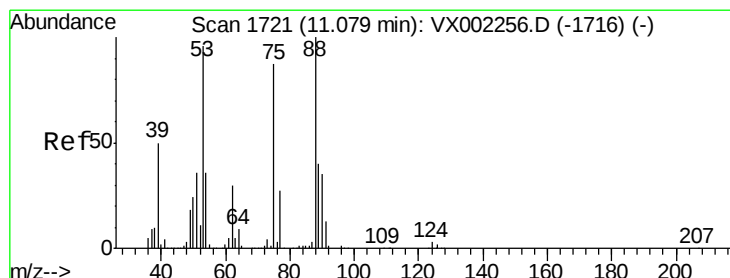
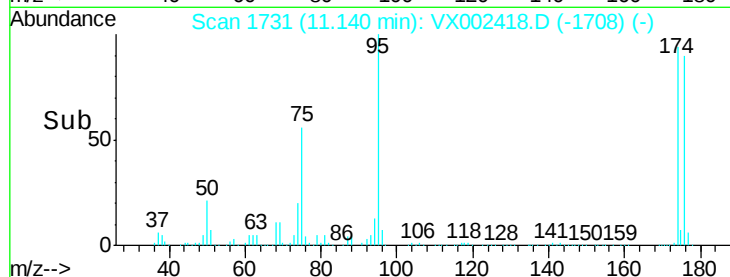
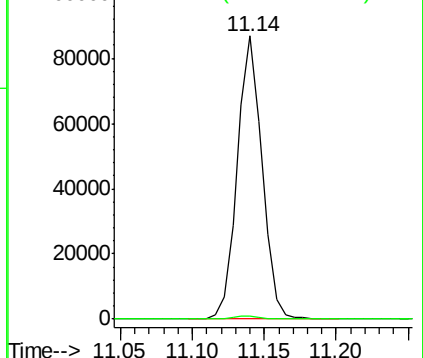
75 100

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: 90.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002418.D

Acq: 09 Jun 2018 11:37

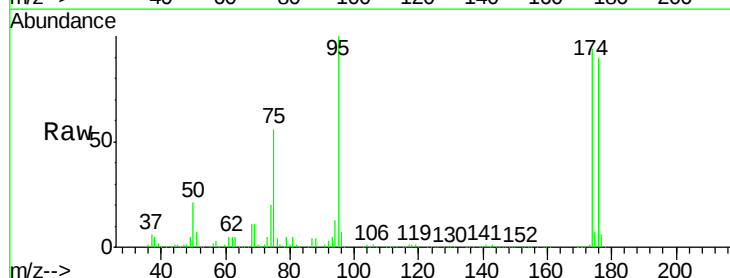
Tgt Ion: 75 Resp: 104130

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

