

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002548.D
 Acq On : 14 Jun 2018 10:55
 Operator : JC/MD
 Sample : VX0614WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 01:29:15 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	266160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	378444	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	342098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	195631	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	191196	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	5.51	113	143360	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	8.72	98	571605	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.14	95	205772	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	

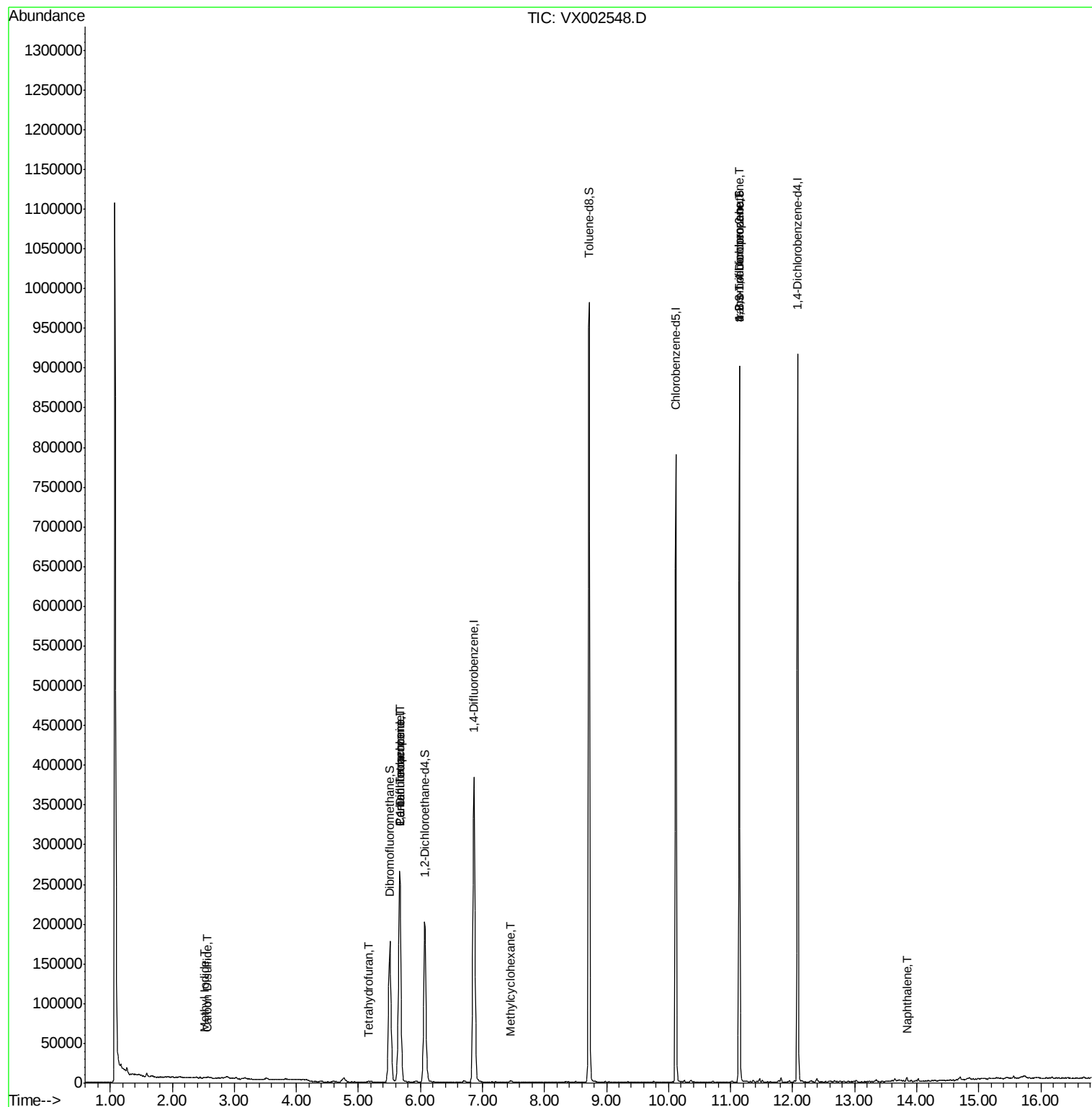
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	460	Below Cal	#	75
5) Bromomethane	1.65	94	557	Below Cal	#	66
8) Diethyl Ether	2.18	74	65	Below Cal		82
10) Methyl Iodide	2.51	142	947	0.23	ug/l	89
11) Tert butyl alcohol	3.11	59	22	Below Cal	#	1
13) Acrolein	2.29	56	292	Below Cal	#	36
15) Acrylonitrile	3.14	53	1035	Below Cal	#	30
16) Acetone	2.45	43	1132	Below Cal		92
17) Carbon Disulfide	2.57	76	1536	0.21	ug/l	# 64
18) Methyl Acetate	2.78	43	203	Below Cal	#	20
19) Methyl tert-butyl Ether	3.20	73	176	Below Cal	#	42
20) Methylene Chloride	2.87	84	779	Below Cal	#	78
22) Diisopropyl ether	3.88	45	106	Below Cal	#	54
28) Bromochloromethane	5.03	49	66	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	688	0.41	ug/l	# 63
36) 1,1-Dichloropropene	5.67	75	18451	4.64	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	24194	5.81	ug/l	# 15
39) Methylcyclohexane	7.46	83	724	0.41	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	107771	25.11	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	107771	88.00	ug/l	# 6
95) Naphthalene	13.83	128	3060	0.21	ug/l	96

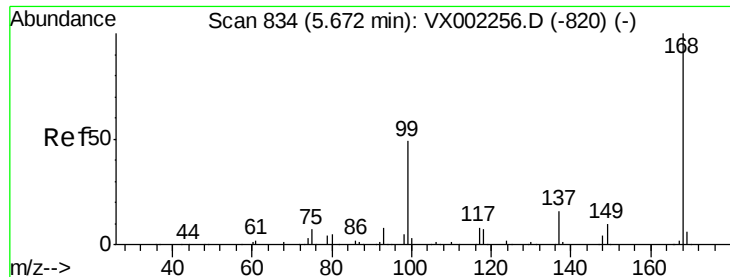
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :

Quant Time: Jun 15 01:29:15 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: VX002548.D

Acq: 14 Jun 2018 10:55

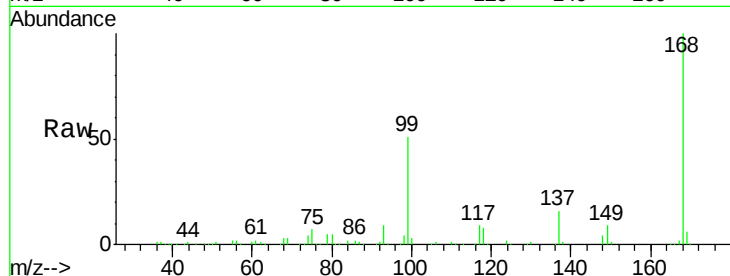
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 266160

Ion Ratio Lower Upper

168 100

99 50.6 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

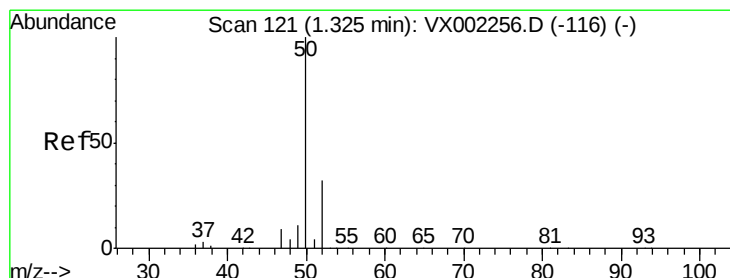
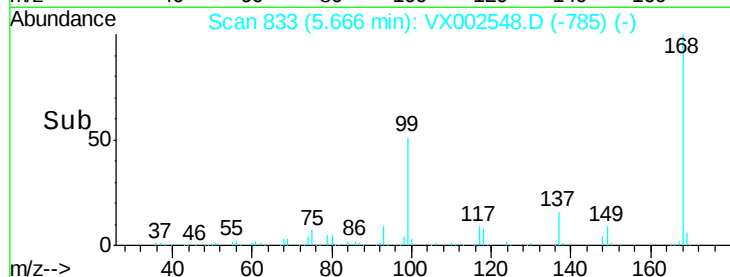
60000

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: VX002548.D

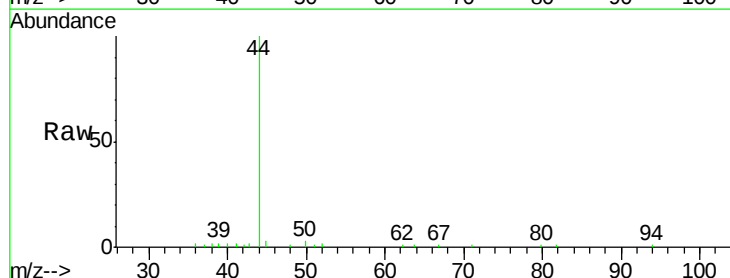
Acq: 14 Jun 2018 10:55

Tgt Ion: 50 Resp: 460

Ion Ratio Lower Upper

50 100

52 46.2 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

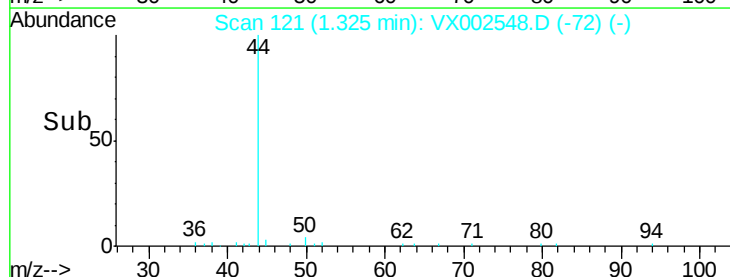
300

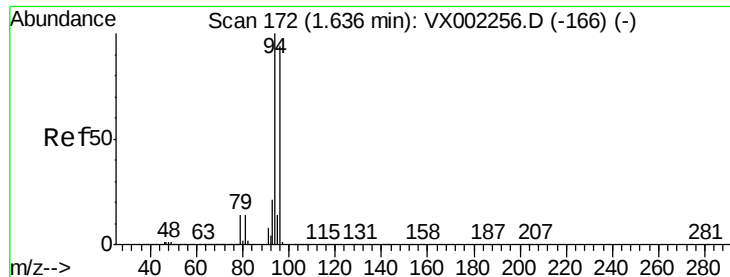
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

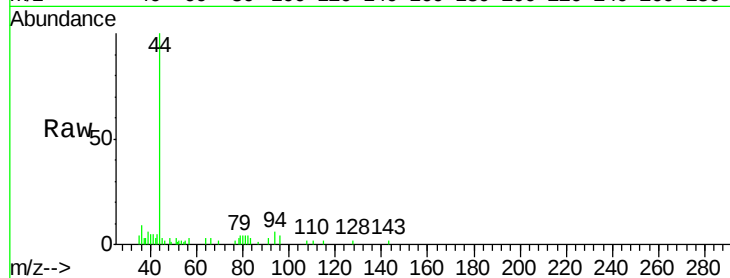
ClientSampled :

Tot Ion: 94 Resp: 557

Ion Ratio Lower Upper

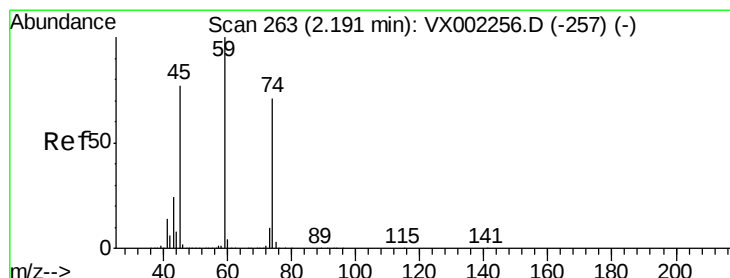
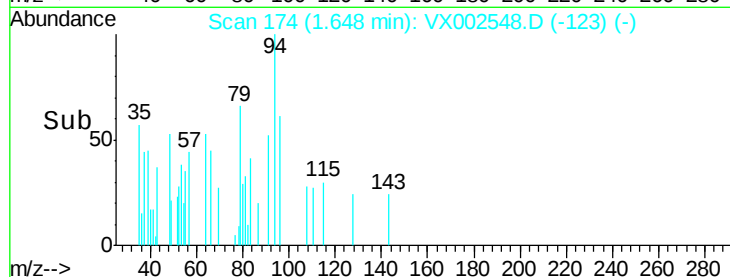
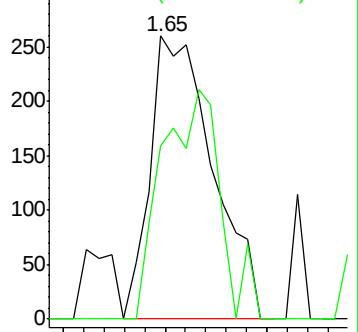
94 100

96 61.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002548.D

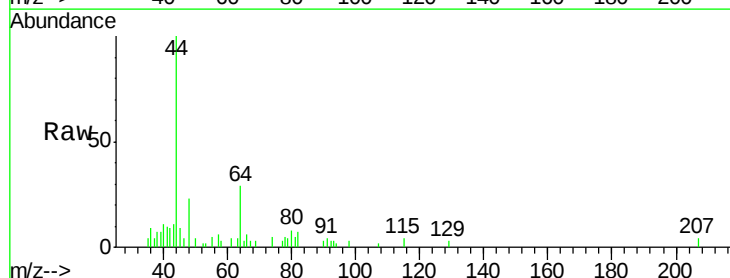
Acq: 14 Jun 2018 10:55

Tgt Ion: 74 Resp: 65

Ion Ratio Lower Upper

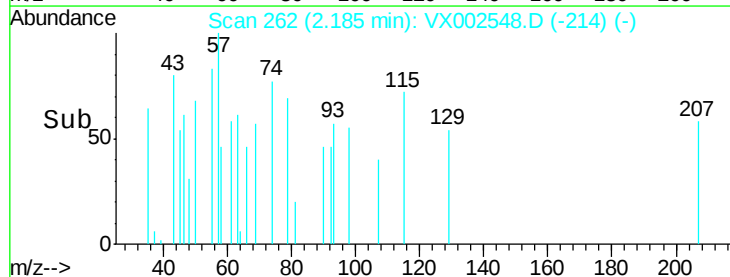
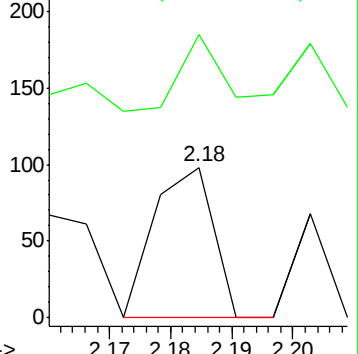
74 100

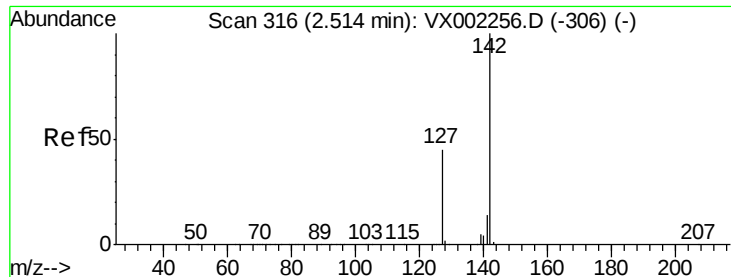
45 124.6 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

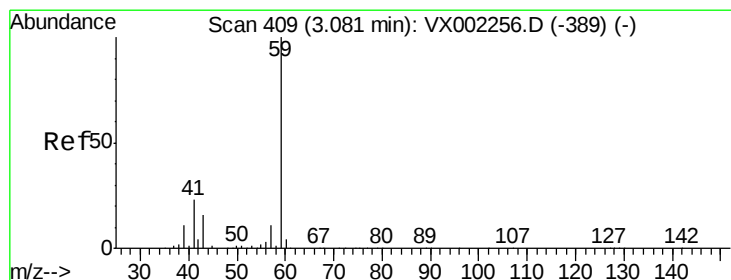
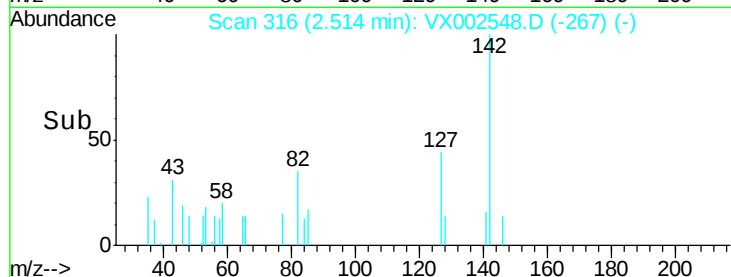
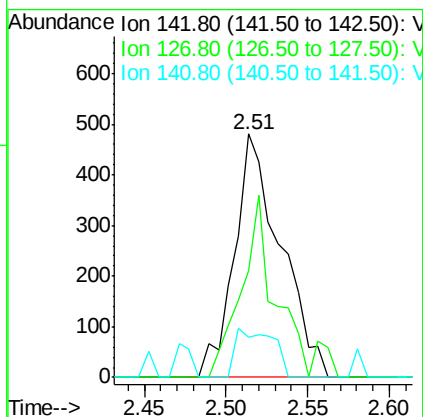
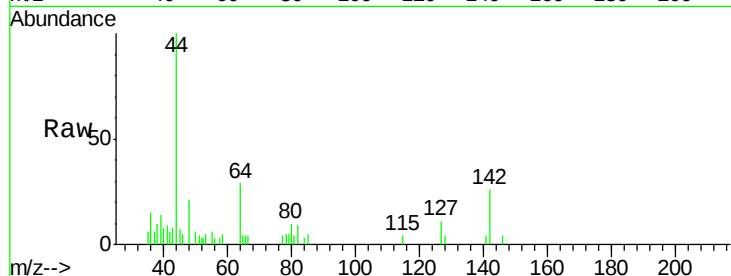




#10
Methvl Iodide
Concen: 0.23 ua/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

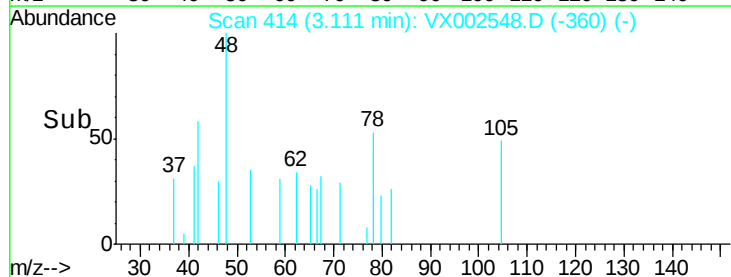
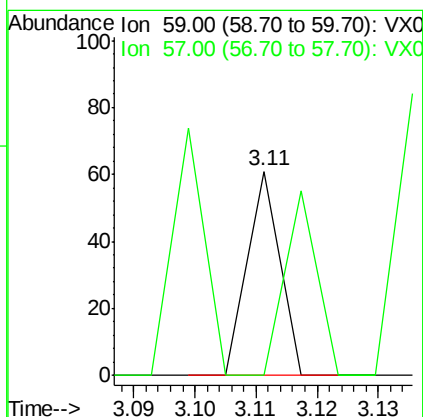
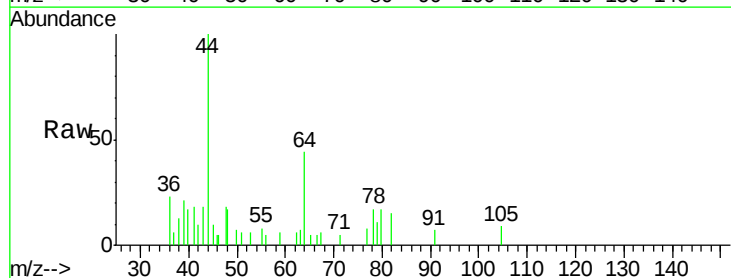
Instrument :
MSVOA_X
ClientSampled :

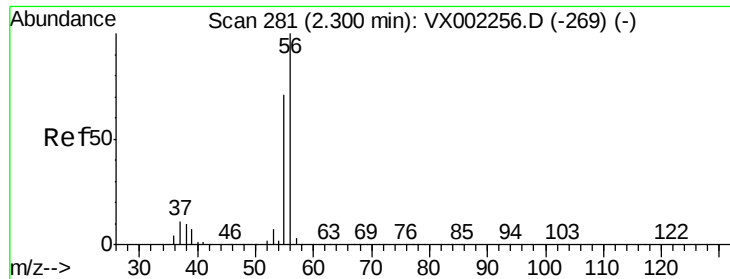
Tot Ion:142 Resp: 947
Ion Ratio Lower Upper
142 100
127 54.1 36.6 55.0
141 16.1 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.11 min Scan# 414
Delta R.T. 0.03 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

Tgt Ion: 59 Resp: 22
Ion Ratio Lower Upper
59 100
57 90.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

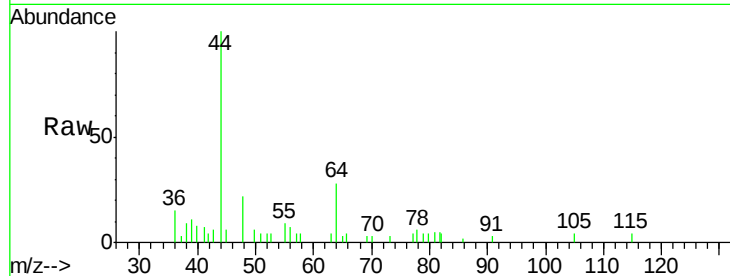
ClientSampled :

Tot Ion: 56 Resp: 292

Ion Ratio Lower Upper

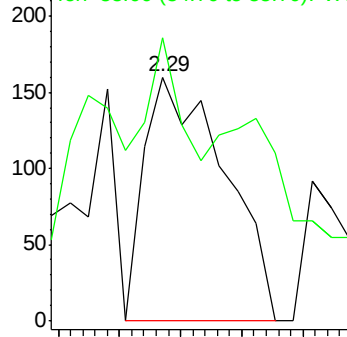
56 100

55 18.5 57.0 85.4#

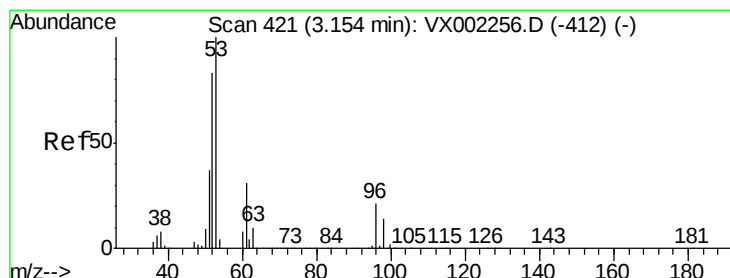
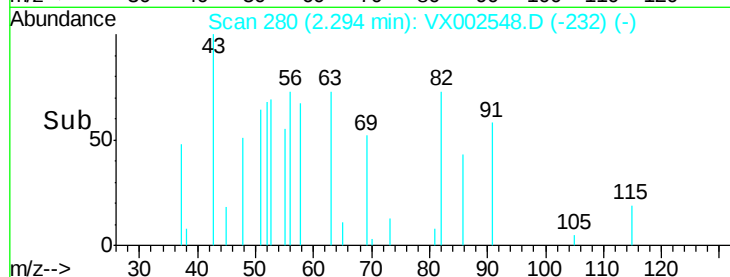


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

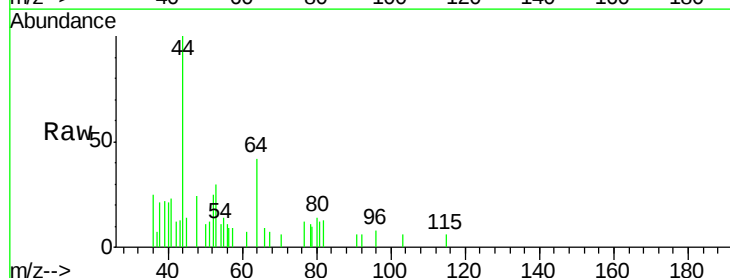
Tgt Ion: 53 Resp: 1035

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

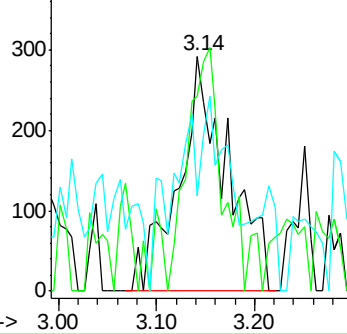
51 25.9 29.9 44.9#



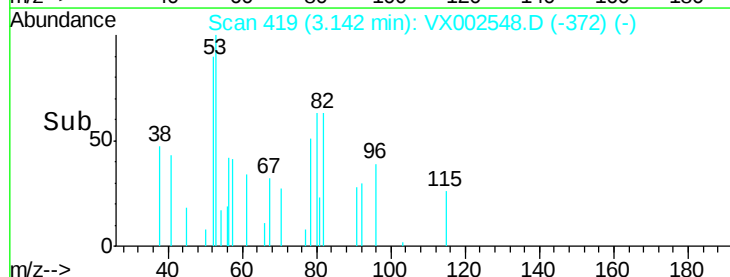
Abundance Ion 53.00 (52.70 to 53.70): VX0

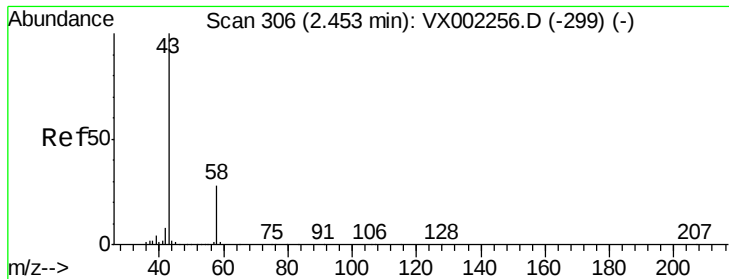
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

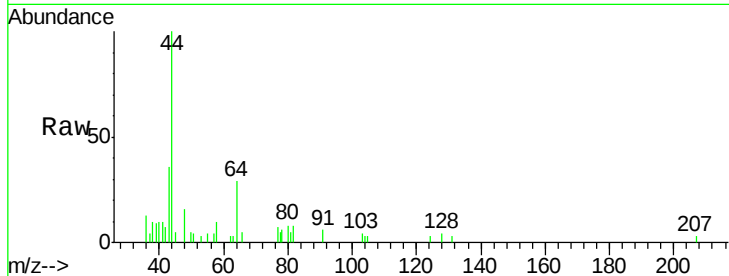
ClientSampled :

Tot Ion: 43 Resp: 1132

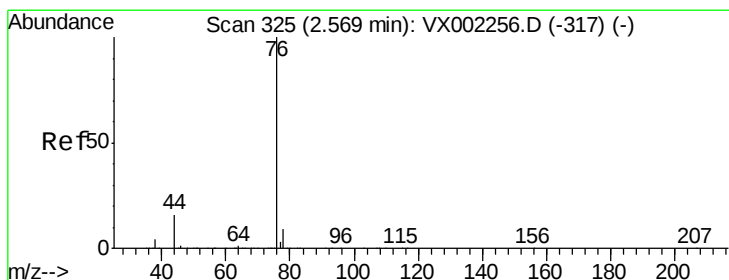
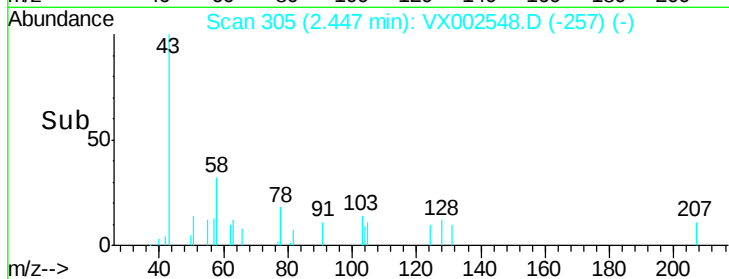
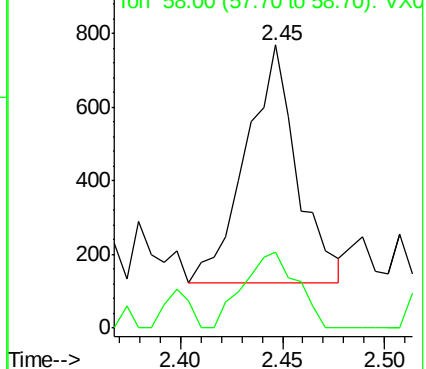
Ion Ratio Lower Upper

43 100

58 31.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002548.D

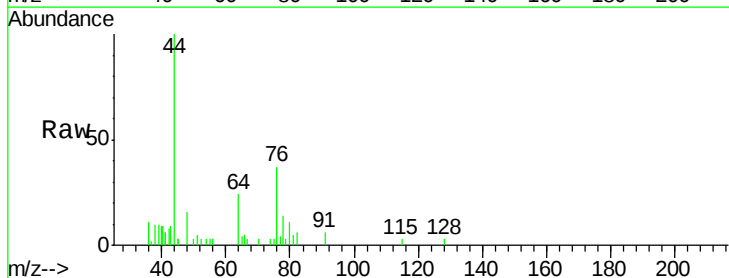
Acq: 14 Jun 2018 10:55

Tgt Ion: 76 Resp: 1536

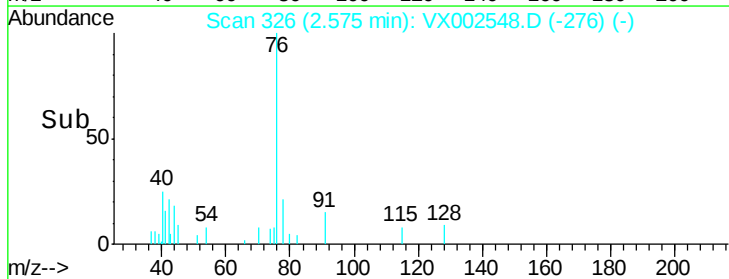
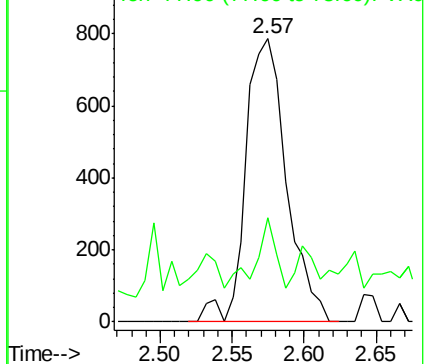
Ion Ratio Lower Upper

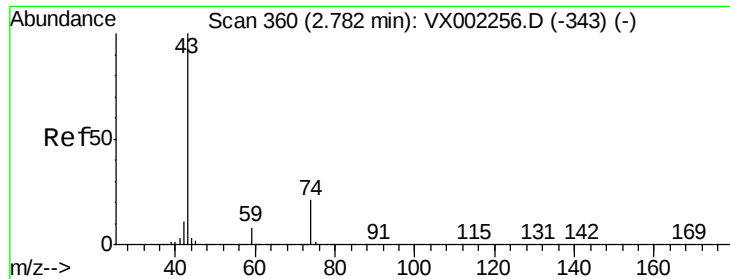
76 100

78 21.5 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

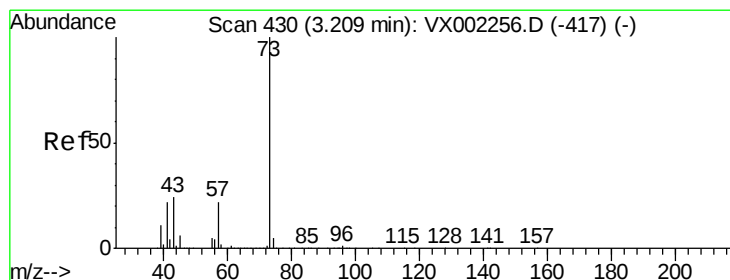
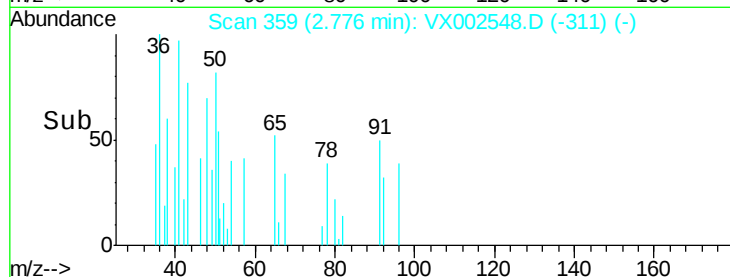
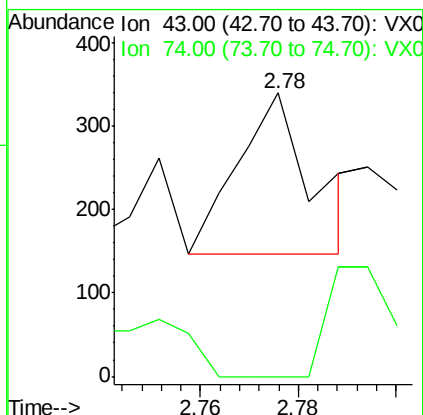
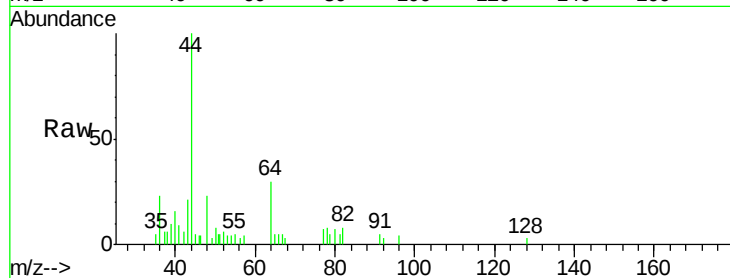




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

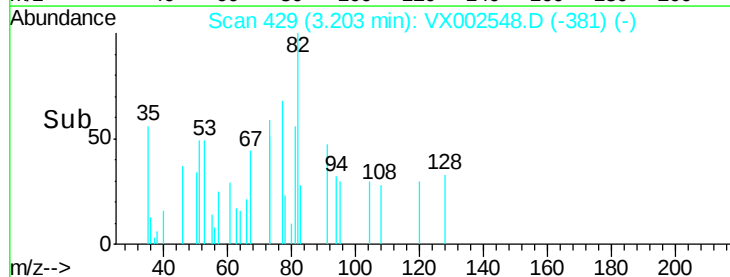
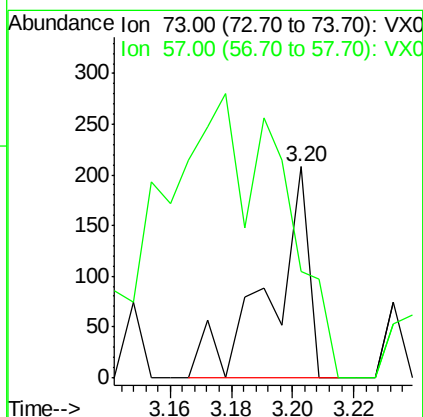
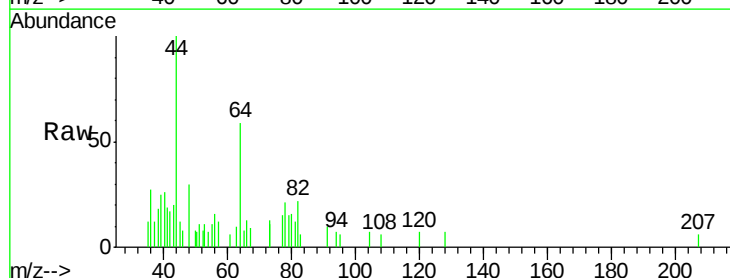
Instrument :
MSVOA_X
ClientSampled :

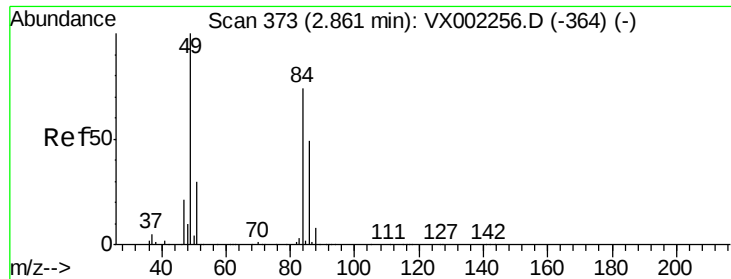
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
74 58.1 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

Tgt Ion: 73 Resp: 176
Ion Ratio Lower Upper
73 100
57 50.0 17.7 26.5#



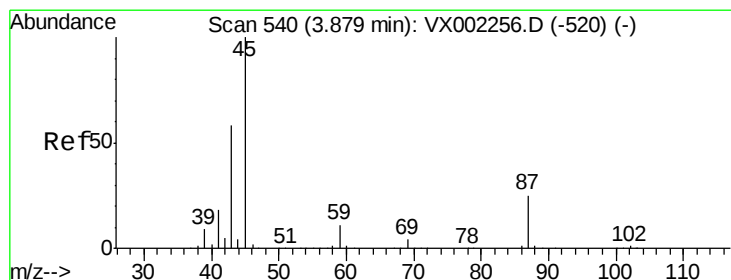
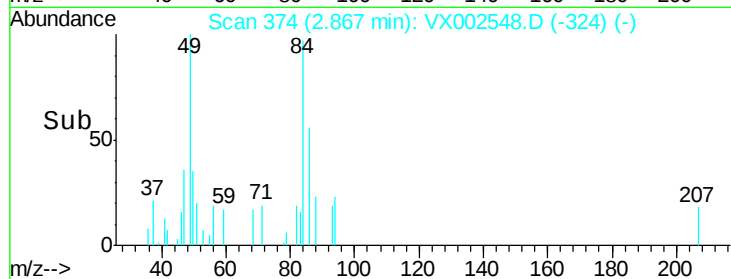
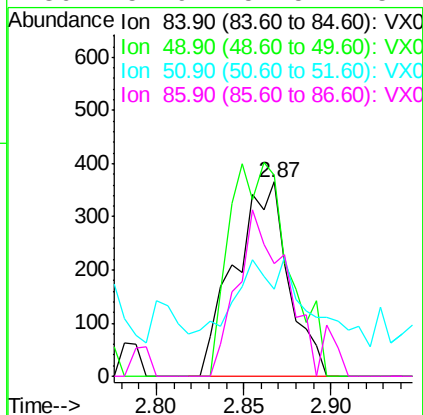
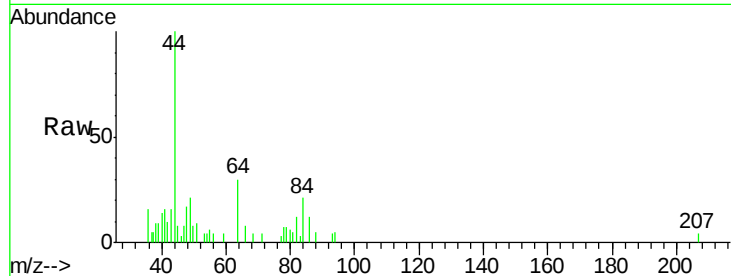


#20

Methvlene Chloride
 Concen: Below Cal
 RT: 2.87 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VX002548.D
 Acq: 14 Jun 2018 10:55

Instrument :
 MSVOA_X
 ClientSampleId :

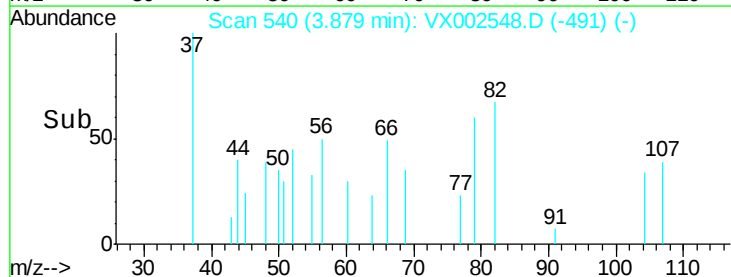
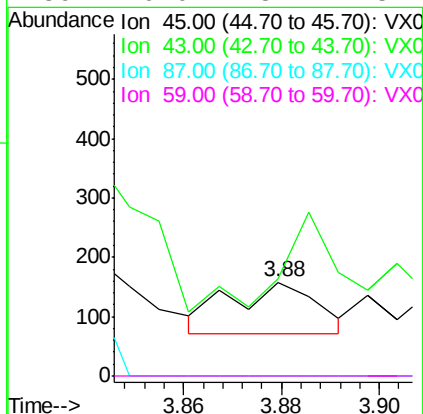
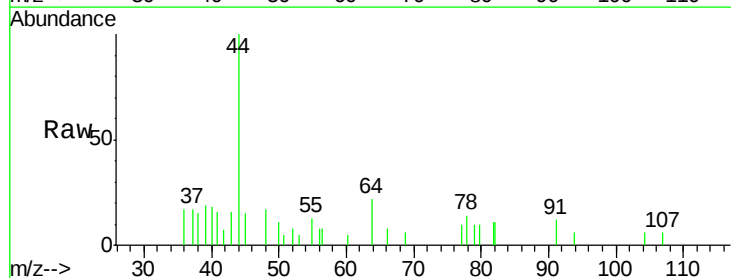
Tot Ion	Ratio	Lower	Upper
84	100		
49	103.0	107.8	161.6#
51	23.0	32.8	49.2#
86	57.9	52.5	78.7

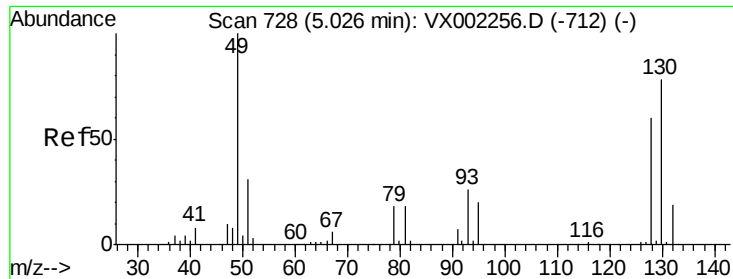


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.88 min Scan# 540
 Delta R.T. 0.00 min
 Lab File: VX002548.D
 Acq: 14 Jun 2018 10:55

Tgt Ion	Ratio	Lower	Upper
45	100		
43	93.3	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

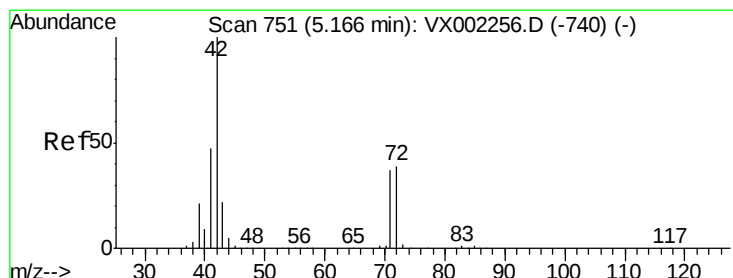
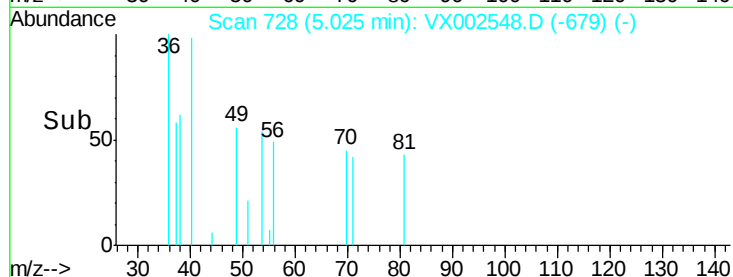
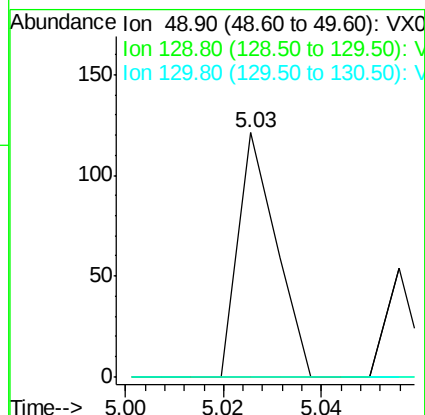
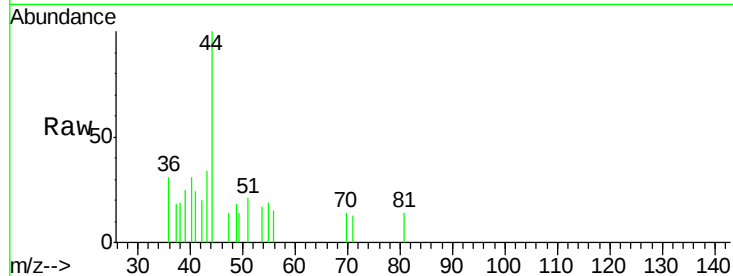
Delta R.T. 0.00 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 66
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.41 ug/l

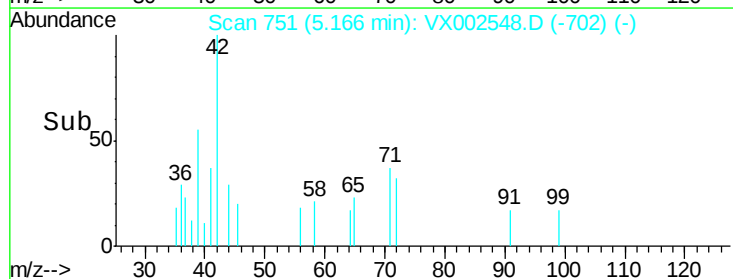
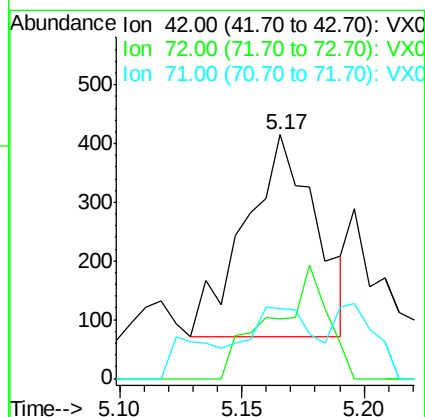
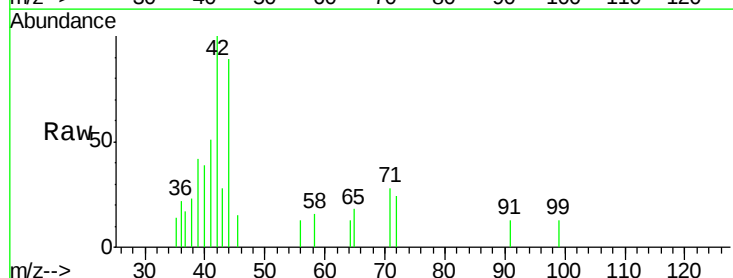
RT: 5.17 min Scan# 751

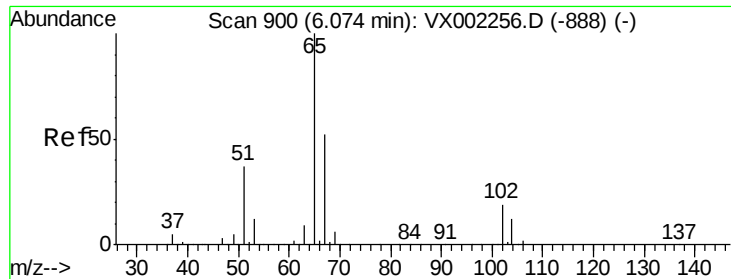
Delta R.T. 0.00 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Tgt Ion: 42 Resp: 688
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 32.7 30.1 45.1

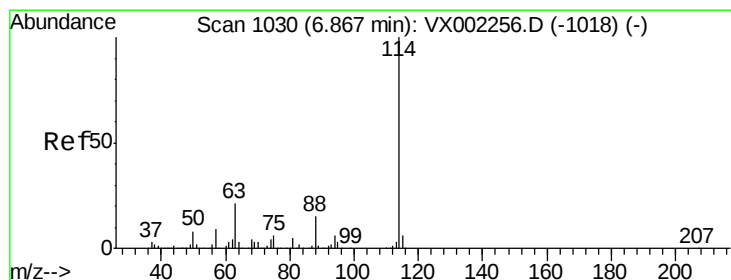
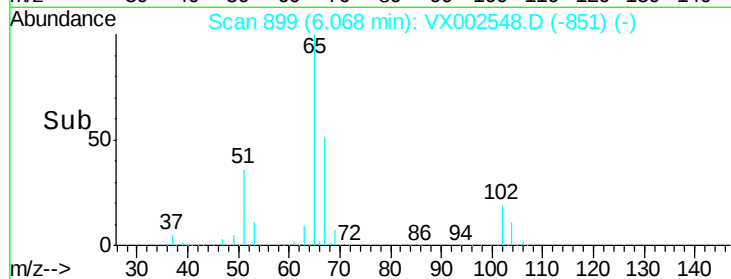
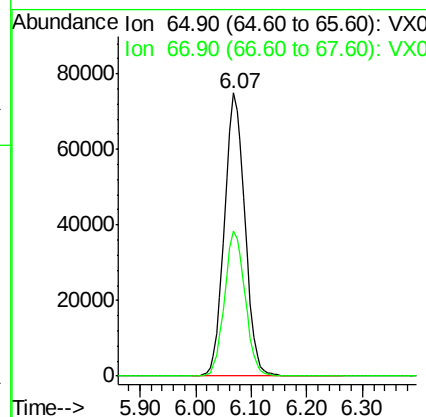
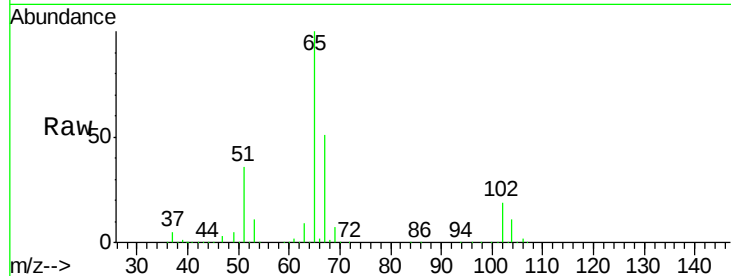




#33
 1,2-Dichloroethane-d4
 Concen: 50.25 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VX002548.D
 Acq: 14 Jun 2018 10:55

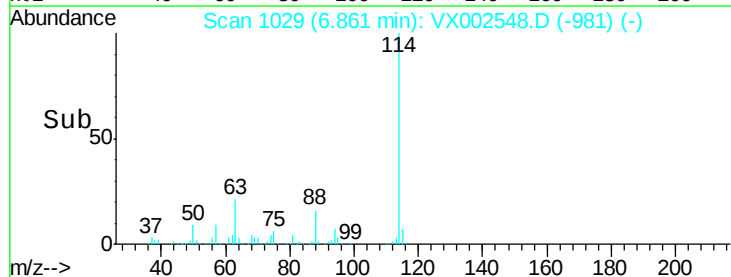
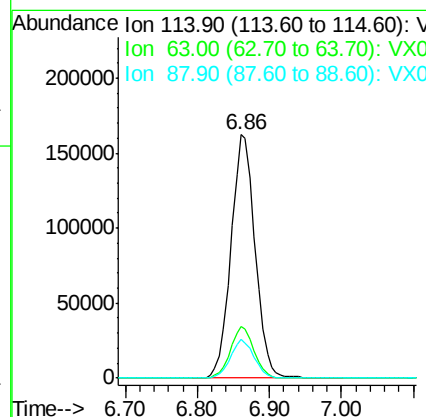
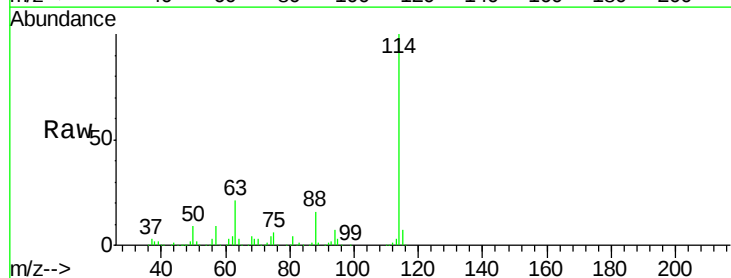
Instrument :
 MSVOA_X
 ClientSampleId :

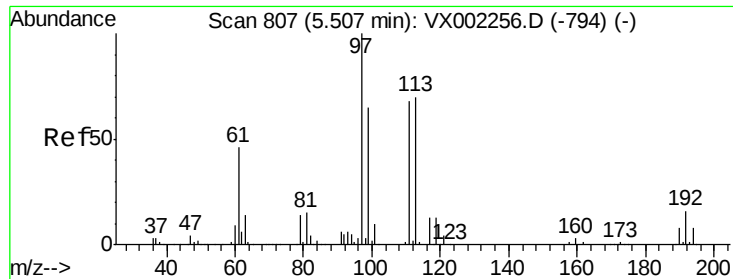
Tot Ion: 65 Resp: 191196
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX002548.D
 Acq: 14 Jun 2018 10:55

Tgt Ion: 114 Resp: 378444
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 41.4
 88 15.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.17 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

ClientSampleId :

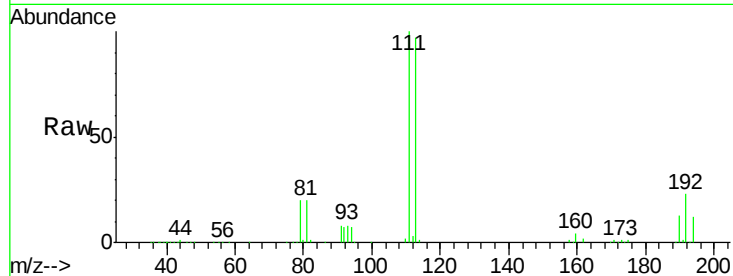
Tot Ion:113 Resp: 143360

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

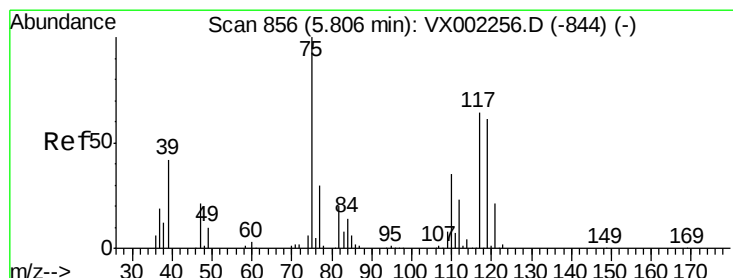
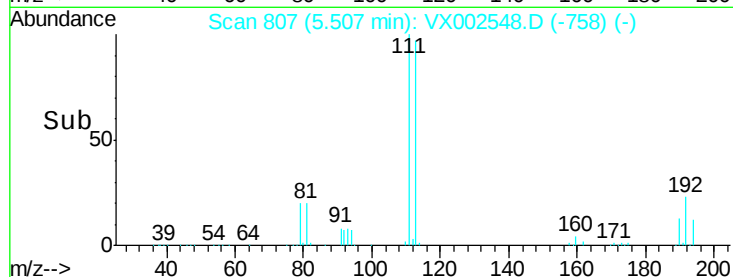
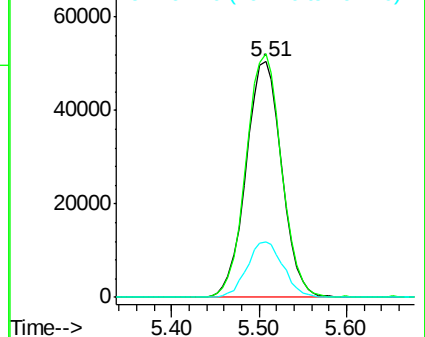
192 23.9 19.1 28.7



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: 4.64 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

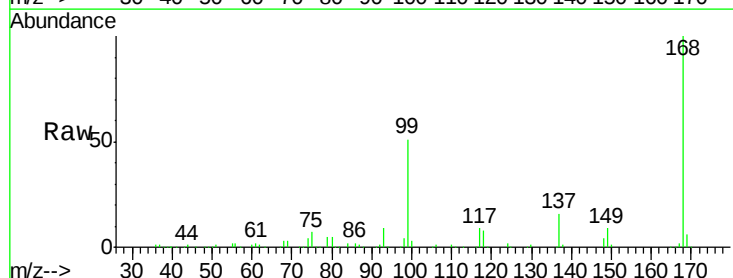
Tgt Ion: 75 Resp: 18451

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

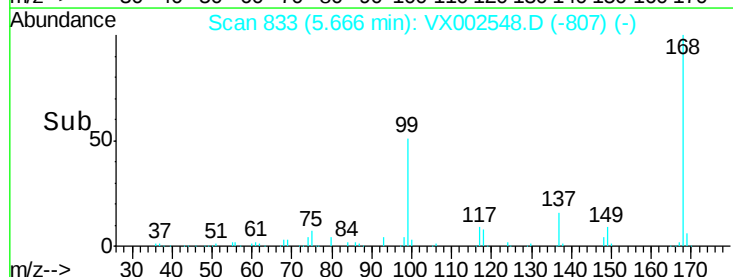
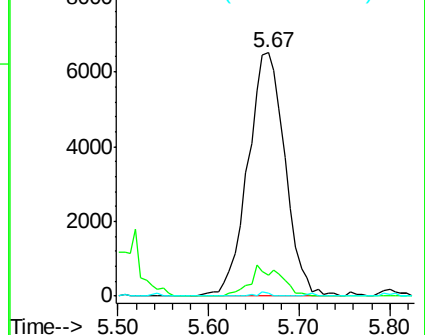
77 0.5 24.3 36.5#

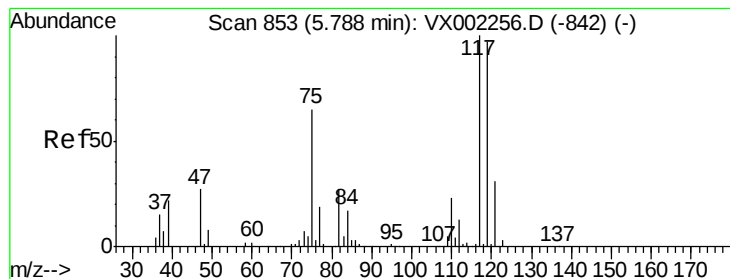


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.81 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

ClientSampled :

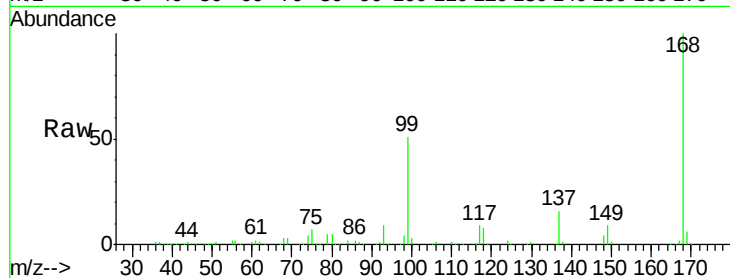
Tot Ion:117 Resp: 24194

Ion Ratio Lower Upper

117 100

119 3.7 77.4 116.0#

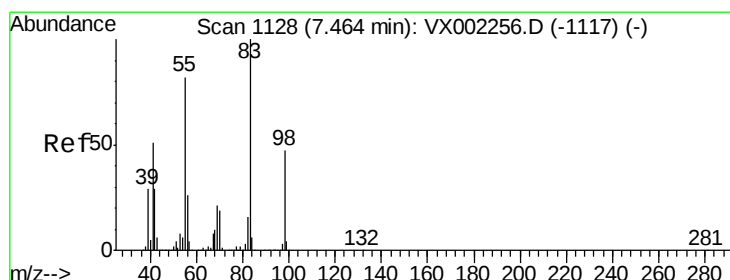
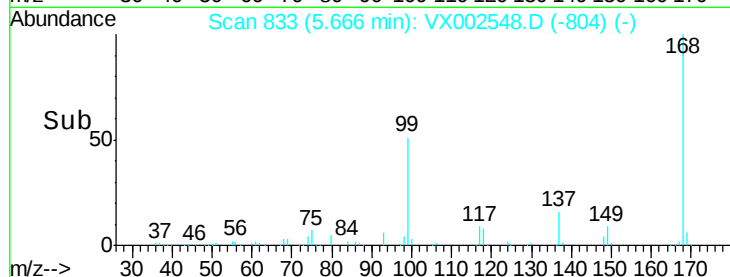
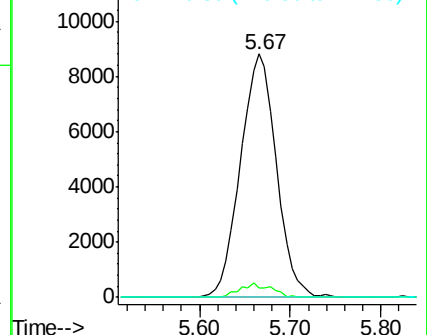
121 0.0 24.4 36.6#



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# 1128

Delta R.T. 0.00 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

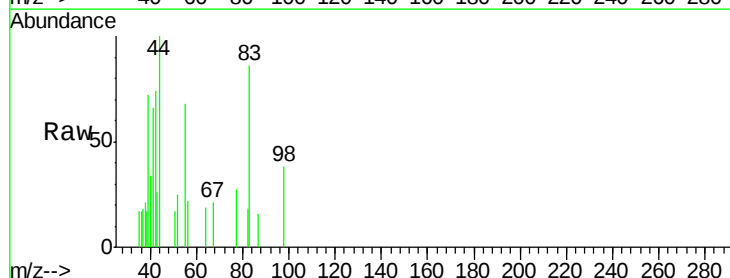
Tgt Ion: 83 Resp: 724

Ion Ratio Lower Upper

83 100

55 78.1 65.4 98.0

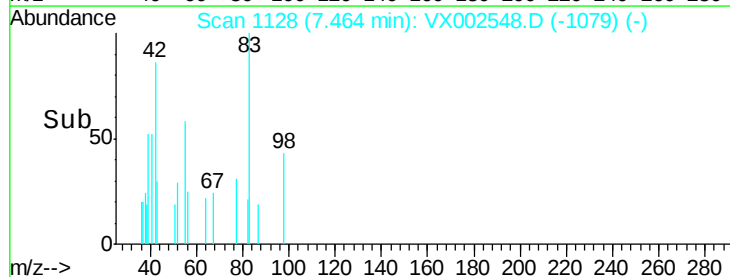
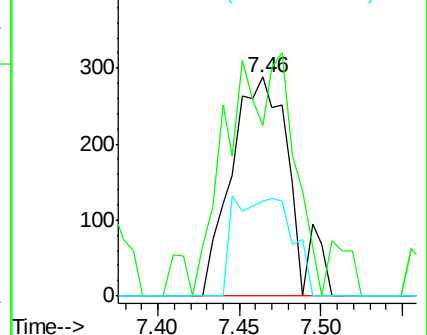
98 43.4 37.4 56.0

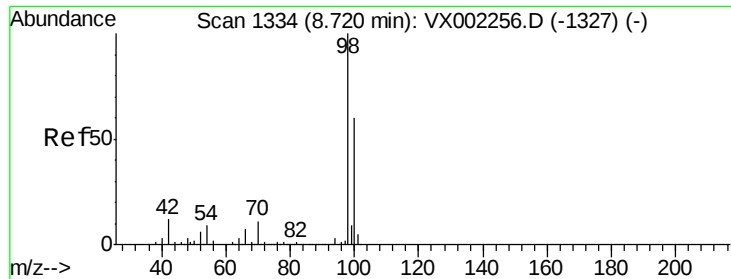


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 50.11 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

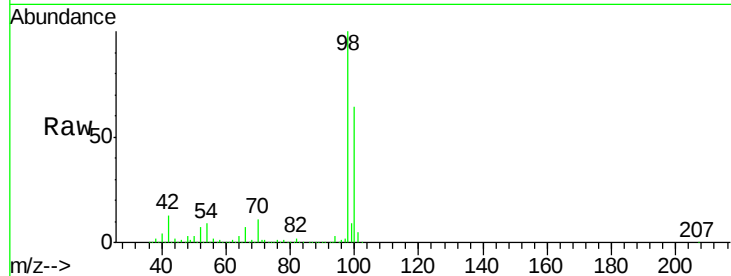
ClientSampleId :

Tot Ion: 98 Resp: 571605

Ion Ratio Lower Upper

98 100

100 63.6 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

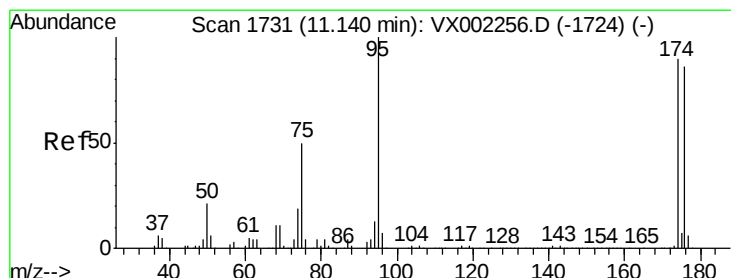
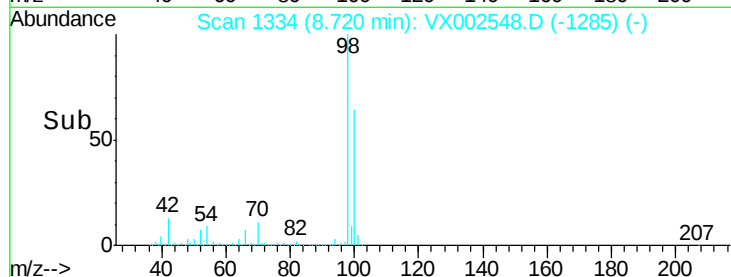
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

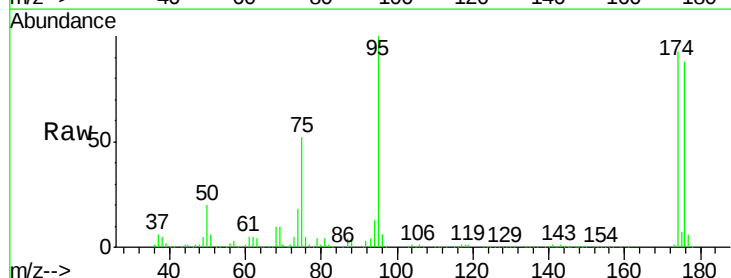
Tgt Ion: 95 Resp: 205772

Ion Ratio Lower Upper

95 100

174 94.4 0.0 187.4

176 91.1 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

11.14

200000

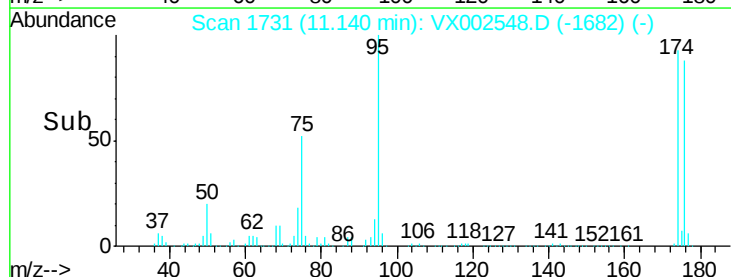
150000

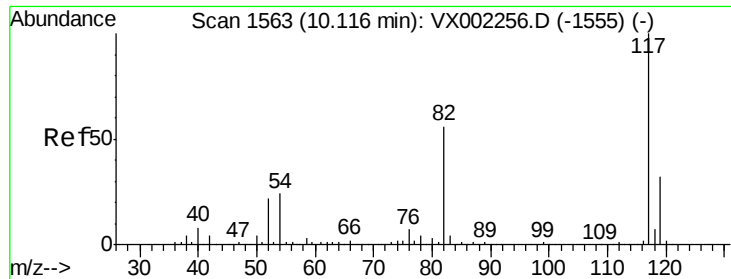
100000

50000

0

Time--> 11.10 11.20

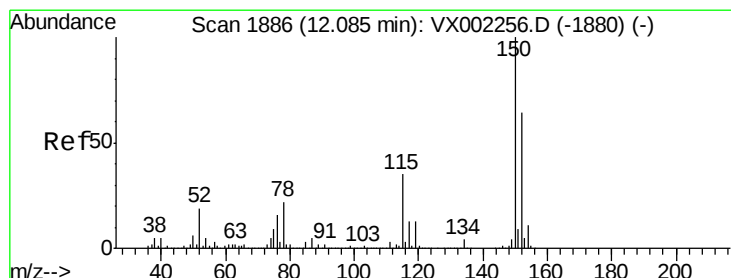
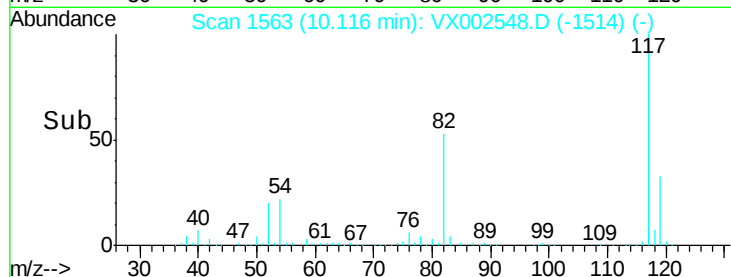
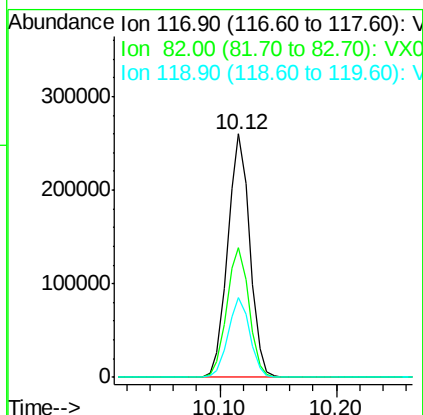
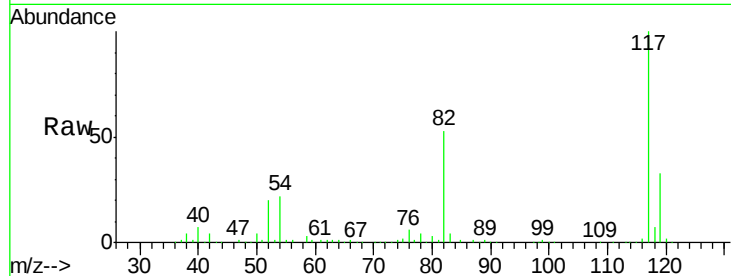




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

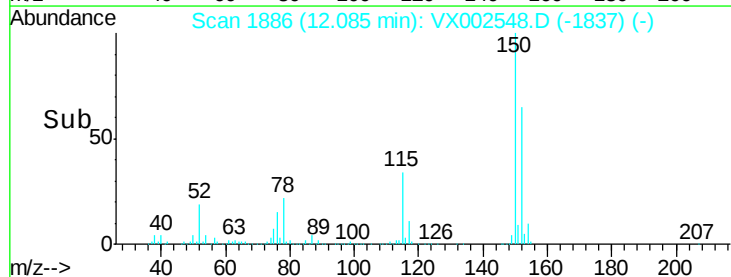
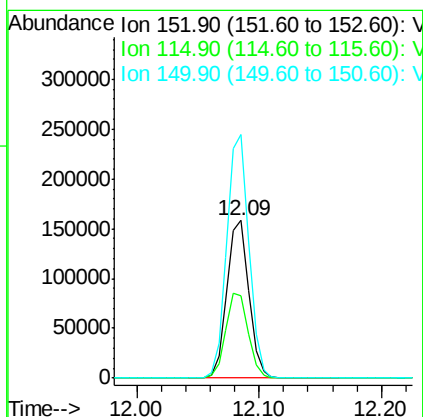
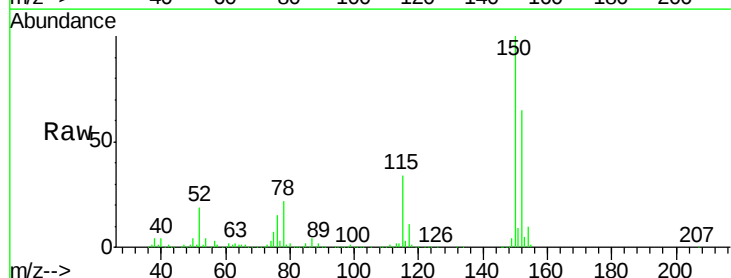
Instrument :
MSVOA_X
ClientSampleId :

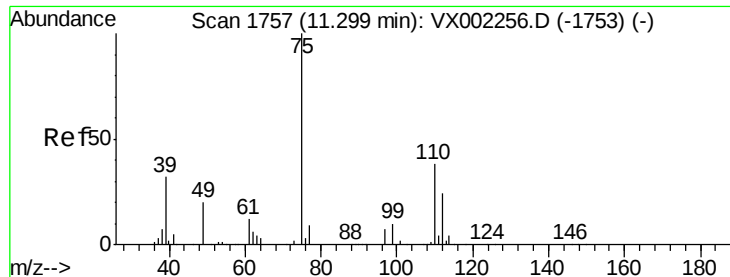
Tot Ion:117 Resp: 342098
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 32.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

Tgt Ion:152 Resp: 195631
Ion Ratio Lower Upper
152 100
115 54.9 40.1 120.2
150 155.2 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 25.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

Instrument :

MSVOA_X

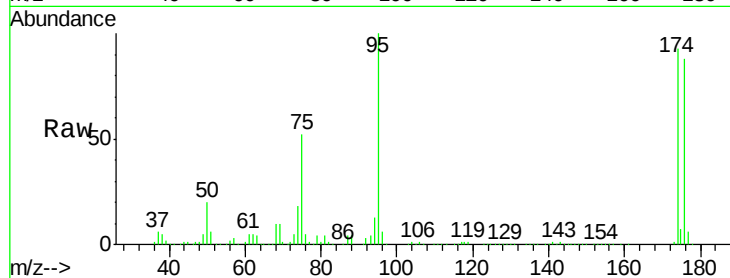
ClientSampled :

Tot Ion: 75 Resp: 107771

Ion Ratio Lower Upper

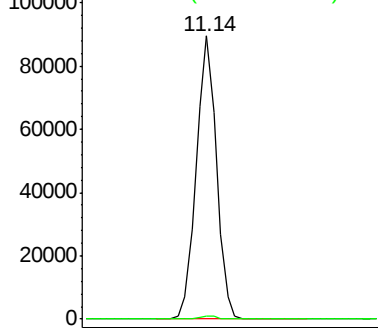
75 100

77 1.2 22.8 68.3#

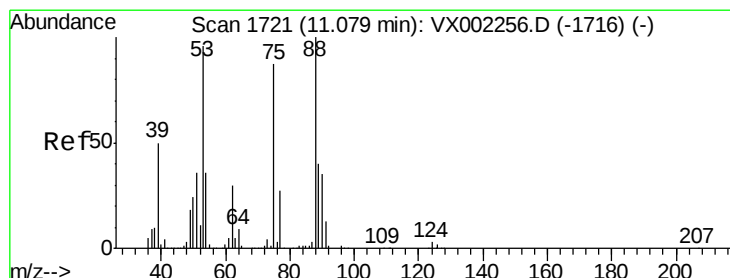
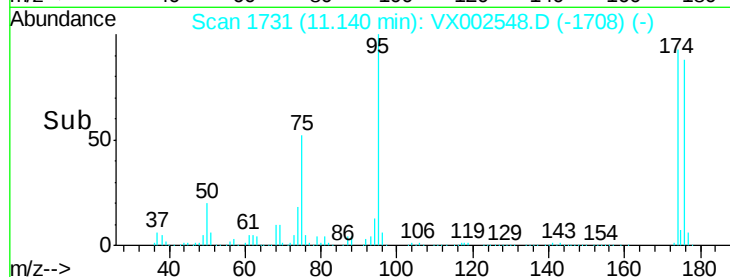


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 88.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002548.D

Acq: 14 Jun 2018 10:55

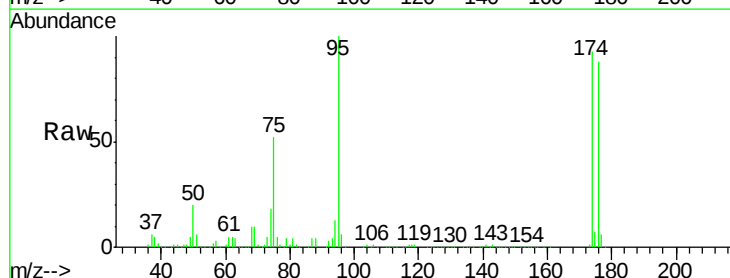
Tgt Ion: 75 Resp: 107771

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

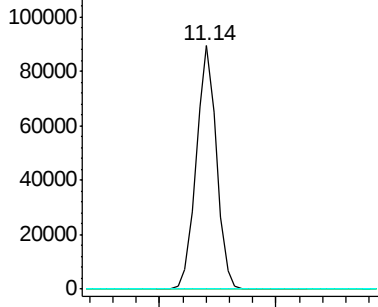
89 0.0 38.2 57.2#



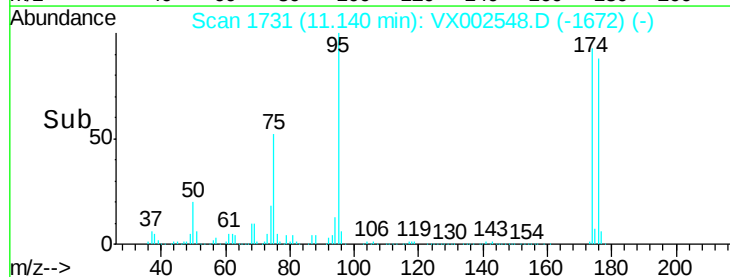
Abundance Ion 74.90 (74.60 to 75.60): VX0

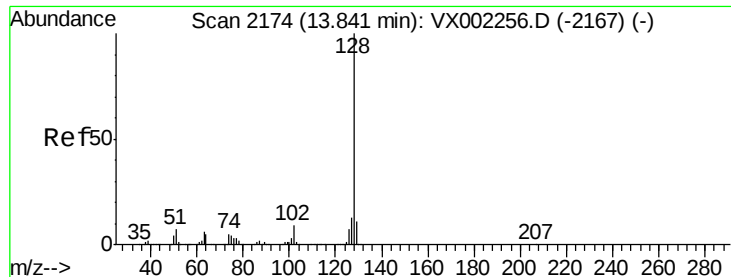
Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time--> 11.10 11.20

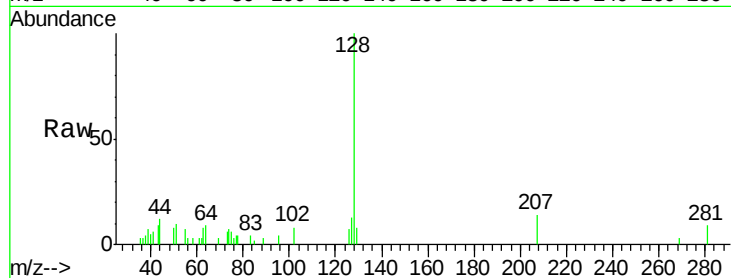




#95
Naphthalene
Concen: 0.21 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. -0.01 min
Lab File: VX002548.D
Acq: 14 Jun 2018 10:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 3060
Ion Ratio Lower Upper
128 100
127 14.2 10.4 15.6
129 12.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

