

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\
 Data File : VX002434.D
 Acq On : 09 Jun 2018 21:03
 Operator : JC/MD
 Sample : J3394-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 11 04:11:18 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	216977	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	318084	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	293212	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161070	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	151207	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
35) Dibromofluoromethane	5.51	113	114503	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
50) Toluene-d8	8.72	98	455658	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
62) 4-Bromofluorobenzene	11.14	95	157410	42.58	ug/l	0.00
Spiked Amount			Recovery	=	85.16%	

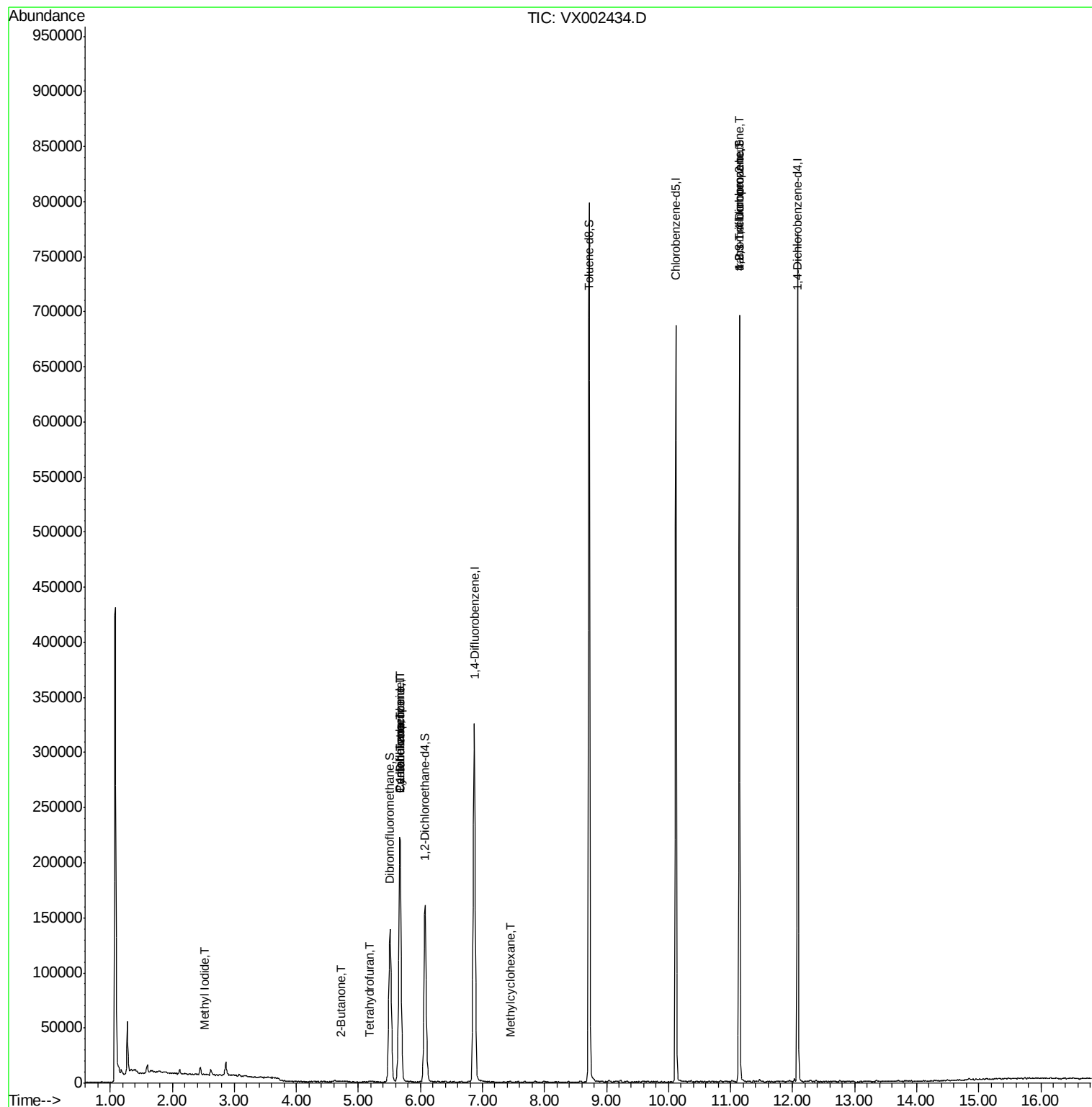
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	313	Below Cal	#	64
5) Bromomethane	1.66	94	1060	Below Cal	#	99
8) Diethyl Ether	2.20	74	160	Below Cal	#	1
10) Methyl Iodide	2.52	142	901	0.27	ug/l	85
11) Tert butyl alcohol	3.07	59	2317	Below Cal	#	92
13) Acrolein	2.29	56	50	Below Cal	#	1
15) Acrylonitrile	3.17	53	99	Below Cal	#	1
16) Acetone	2.45	43	7007	Below Cal	#	95
18) Methyl Acetate	2.78	43	469	Below Cal	#	73
19) Methyl tert-butyl Ether	3.19	73	184	Below Cal	#	1
20) Methylene Chloride	2.86	84	4910	Below Cal	#	95
22) Diisopropyl ether	3.87	45	74	Below Cal	#	69
25) 2-Butanone	4.71	43	481	0.23	ug/l	75
28) Bromochloromethane	5.00	49	50	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	550	0.40	ug/l	75
31) Cyclohexane	5.67	56	4649	1.19	ug/l	1
36) 1,1-Dichloropropene	5.67	75	15566	4.65	ug/l	50
38) Carbon Tetrachloride	5.67	117	20409	5.83	ug/l	15
39) Methylcyclohexane	7.46	83	102	0.29	ug/l	58
76) 1,2,3-Trichloropropane	11.14	75	84937	24.03	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84937	84.24	ug/l	6

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

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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# 834

Delta R.T. -0.00 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

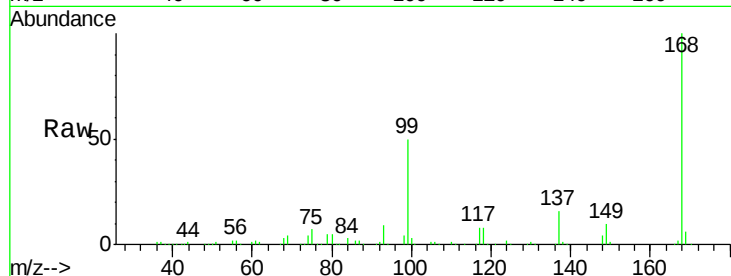
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 216977

Ion Ratio Lower Upper

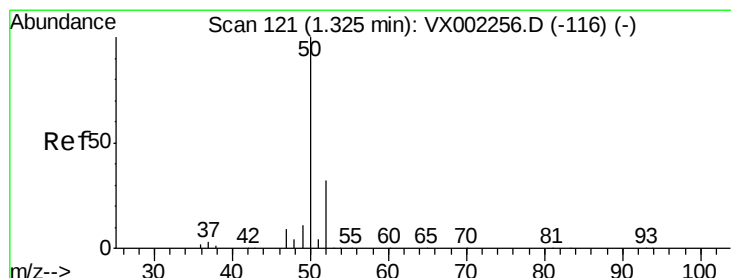
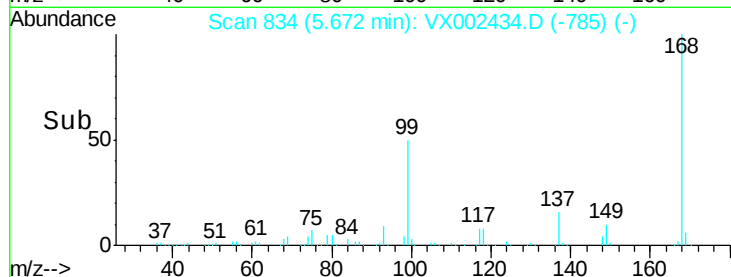
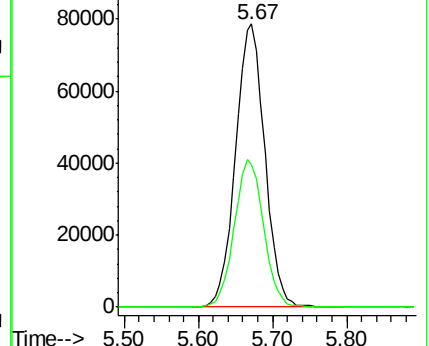
168 100

99 50.2 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: VX002434.D

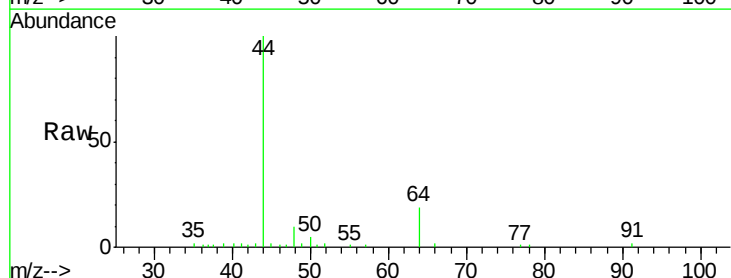
Acq: 09 Jun 2018 21:03

Tgt Ion: 50 Resp: 313

Ion Ratio Lower Upper

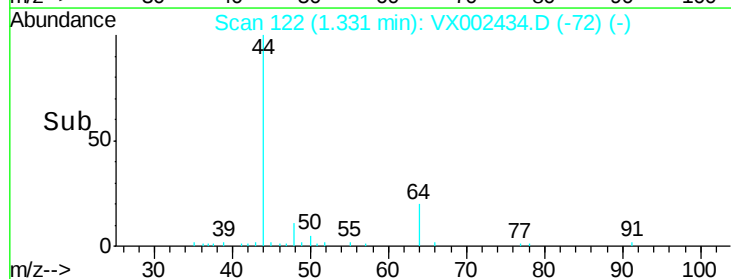
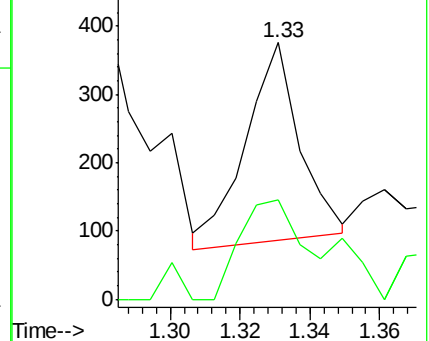
50 100

52 52.1 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: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :

MSVOA_X

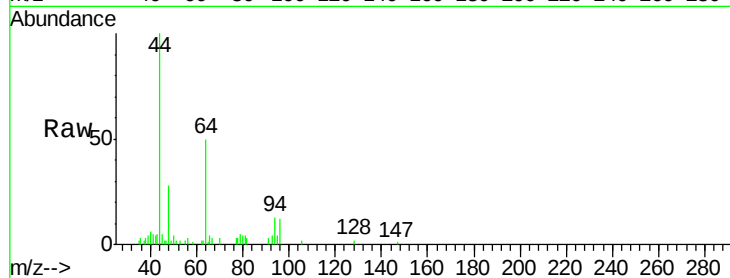
ClientSampleId :

Tot Ion: 94 Resp: 1060

Ion Ratio Lower Upper

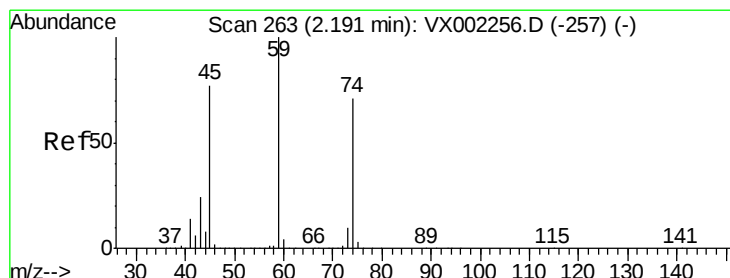
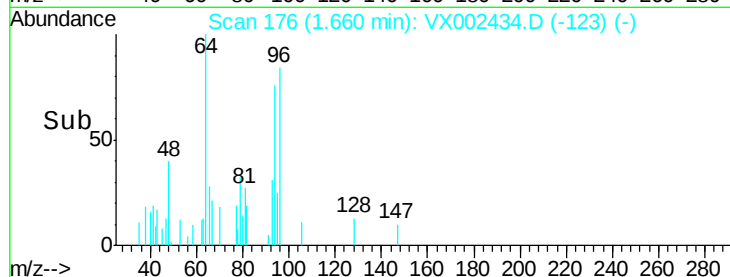
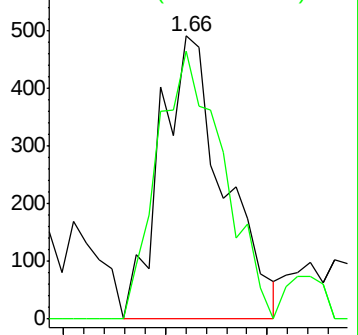
94 100

96 94.5 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: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002434.D

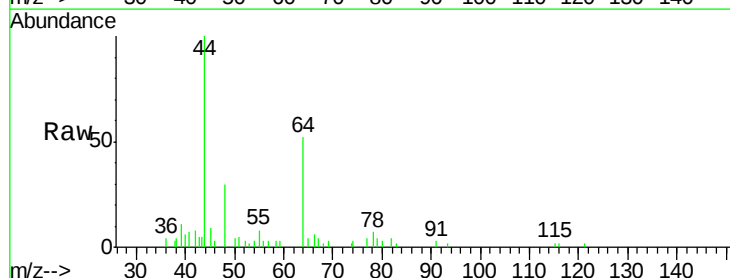
Acq: 09 Jun 2018 21:03

Tgt Ion: 74 Resp: 160

Ion Ratio Lower Upper

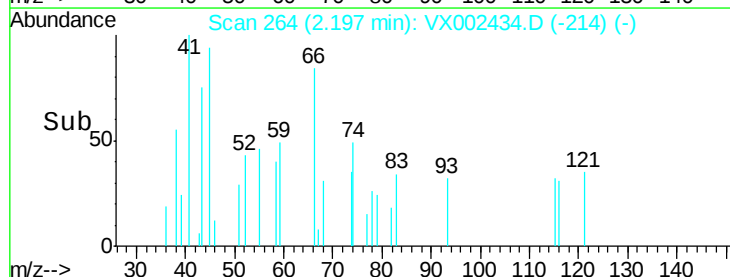
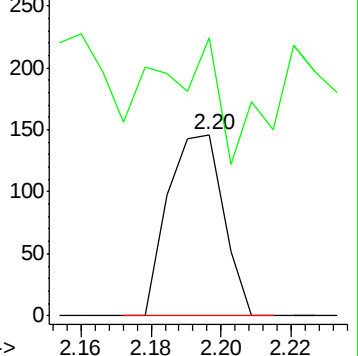
74 100

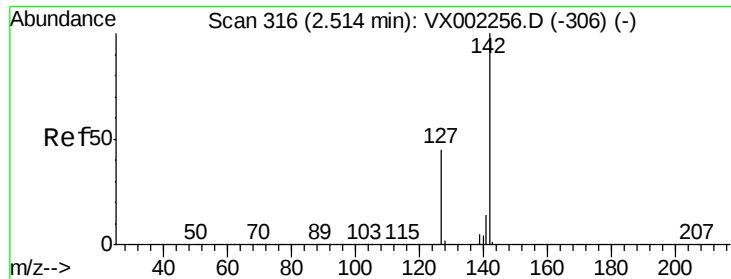
45 0.0 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

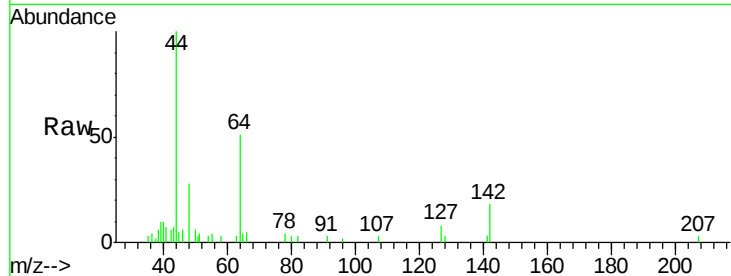




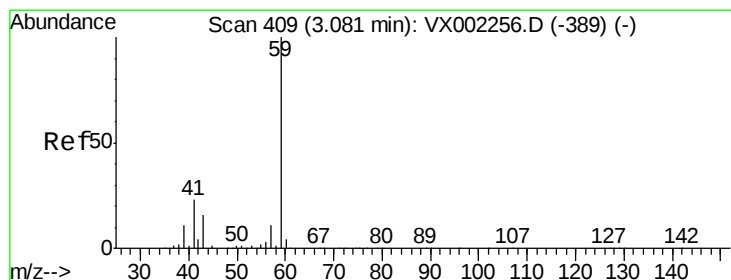
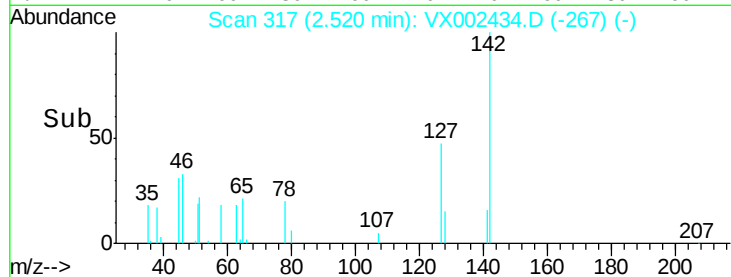
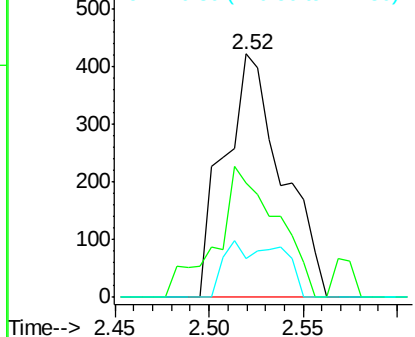
#10
Methyl Iodide
Concen: 0.27 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 901
Ion Ratio Lower Upper
142 100
127 56.0 36.6 55.0#
141 9.5 11.3 16.9#

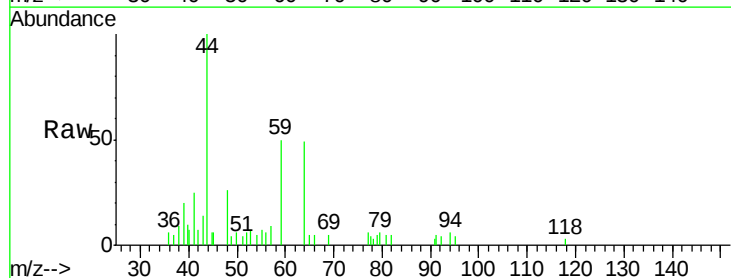


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

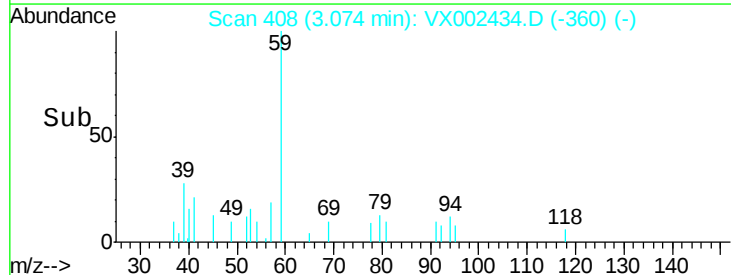
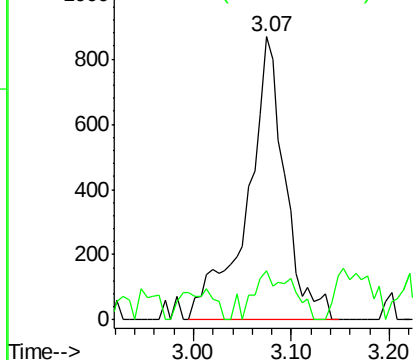


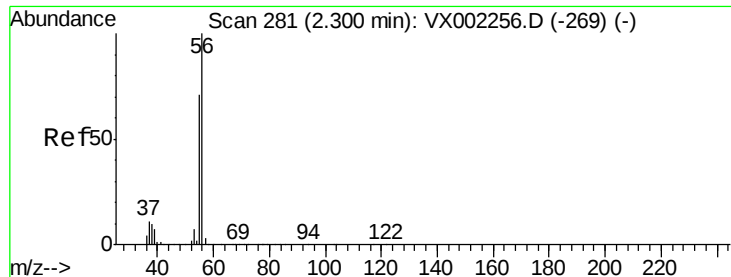
#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Tgt Ion: 59 Resp: 2317
Ion Ratio Lower Upper
59 100
57 13.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

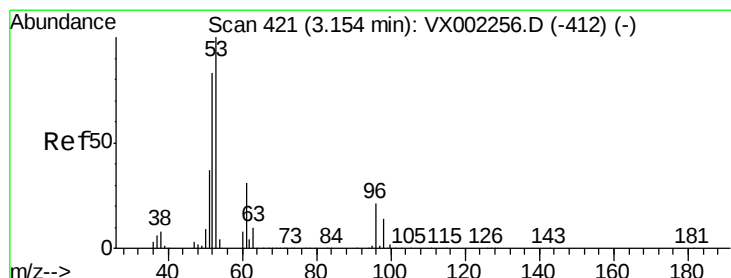
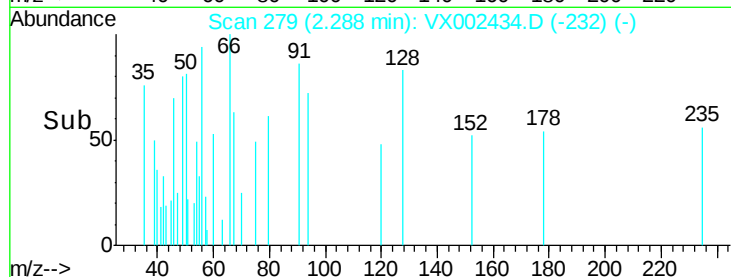
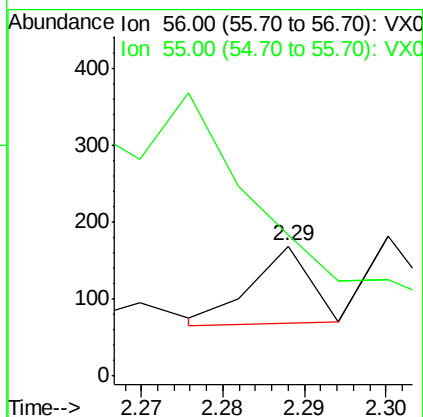
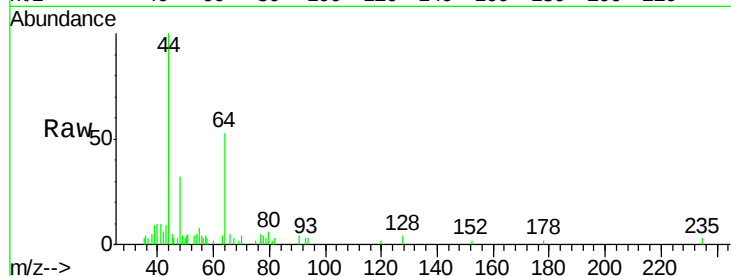
Delta R.T. -0.01 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 50
Ion Ratio Lower Upper
56 100
55 1100.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

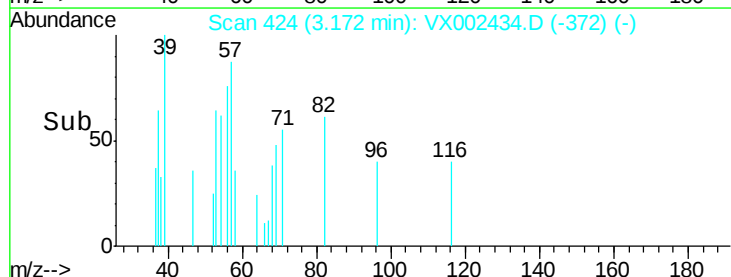
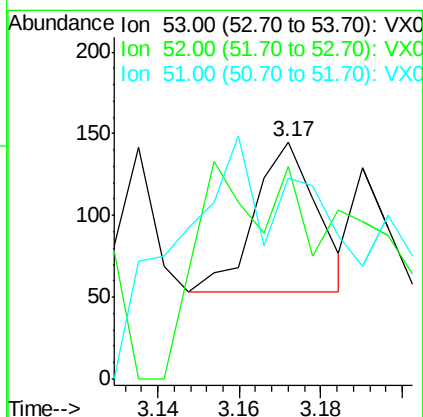
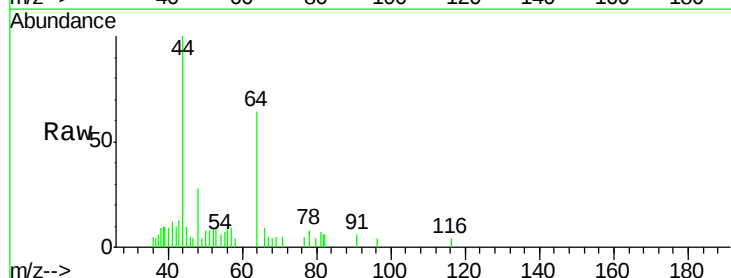
RT: 3.17 min Scan# 424

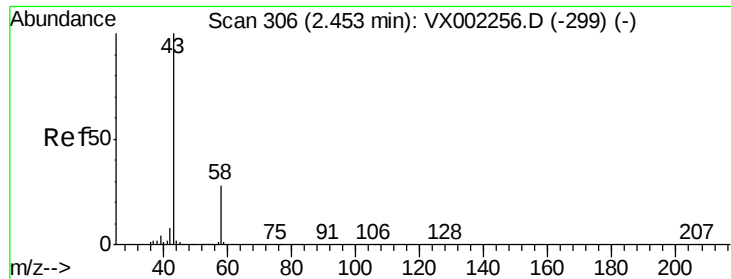
Delta R.T. 0.02 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Tgt Ion: 53 Resp: 99
Ion Ratio Lower Upper
53 100
52 146.5 66.7 100.1#
51 213.1 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

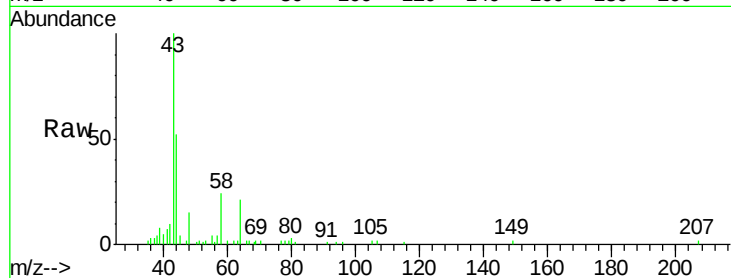
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 7007

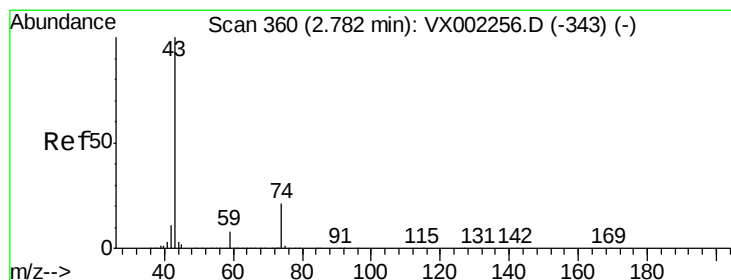
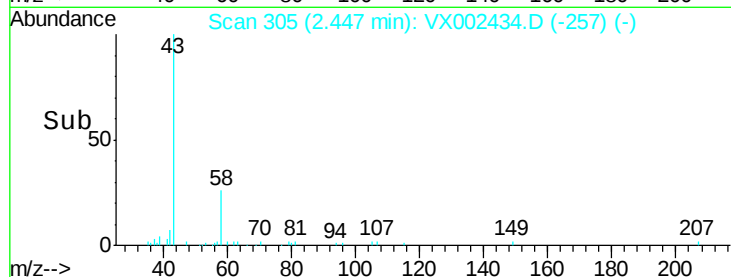
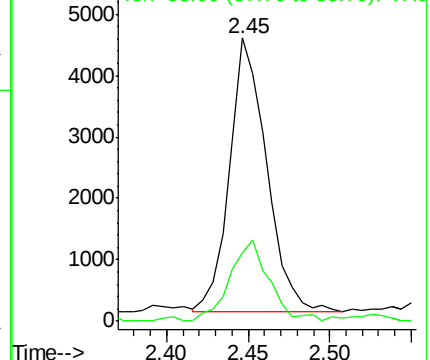
Ion Ratio Lower Upper

43 100

58 25.1 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: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002434.D

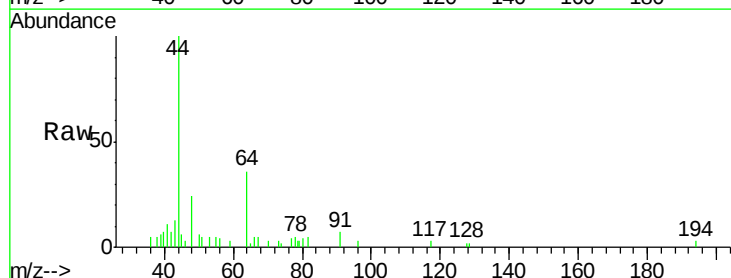
Acq: 09 Jun 2018 21:03

Tgt Ion: 43 Resp: 469

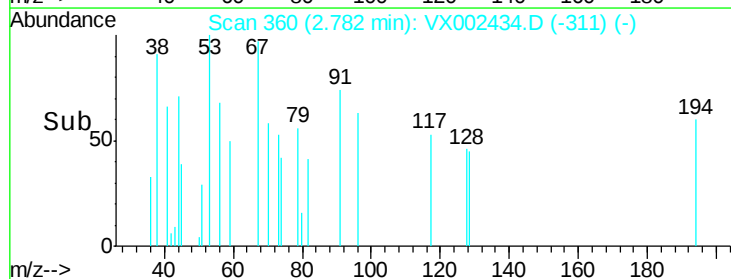
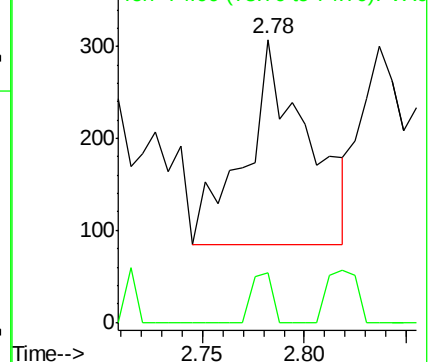
Ion Ratio Lower Upper

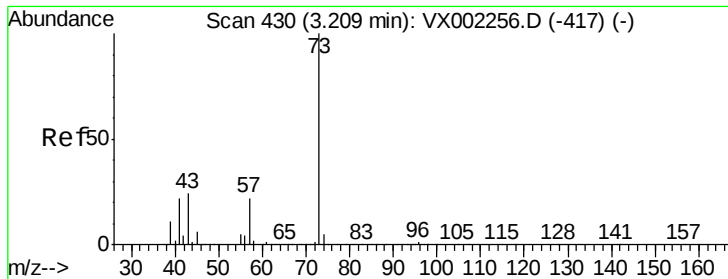
43 100

74 8.1 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 74.00 (73.70 to 74.70): VX0



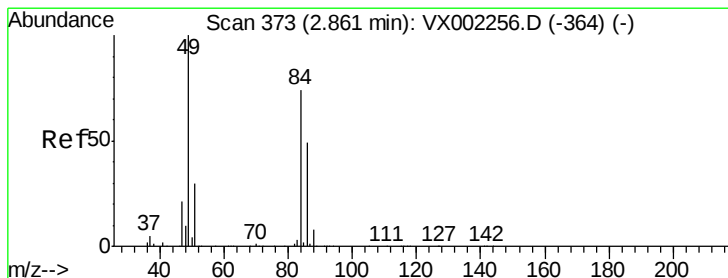
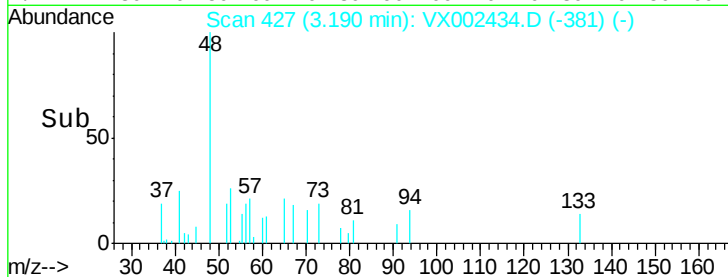
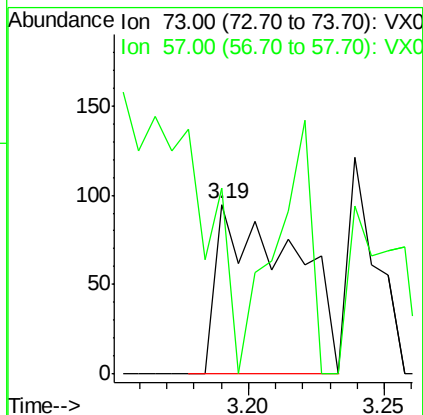
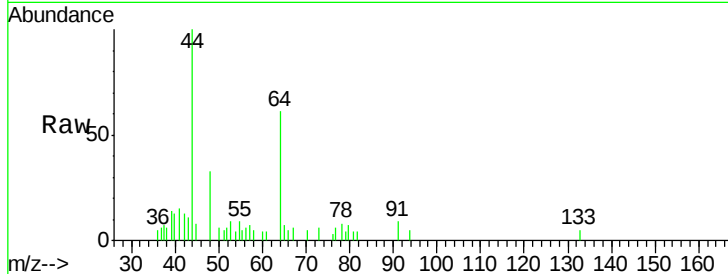


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.19 min Scan# 427
Delta R.T. -0.02 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampleId :

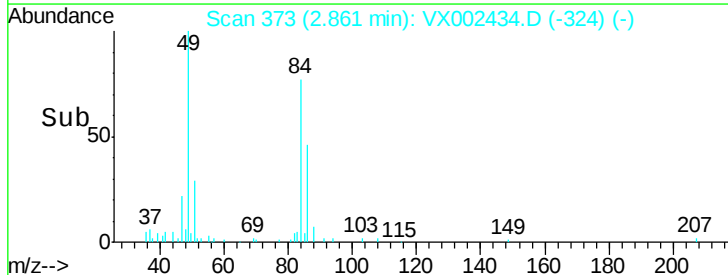
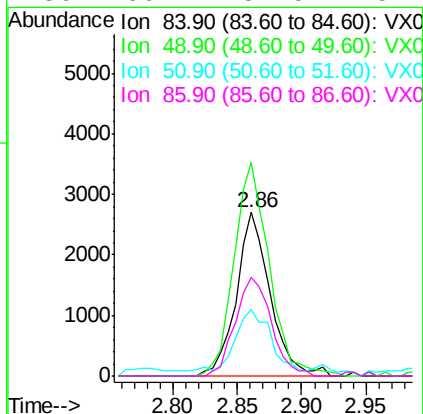
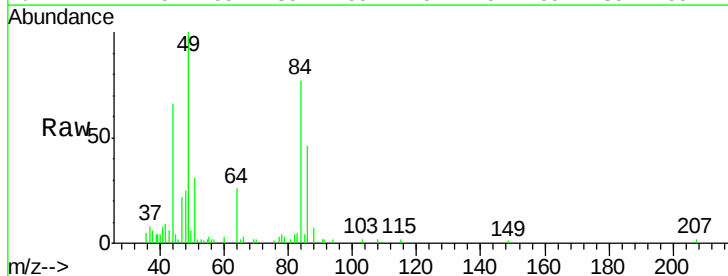
Tot Ion: 73 Resp: 184
Ion Ratio Lower Upper
73 100
57 109.5 17.7 26.5#

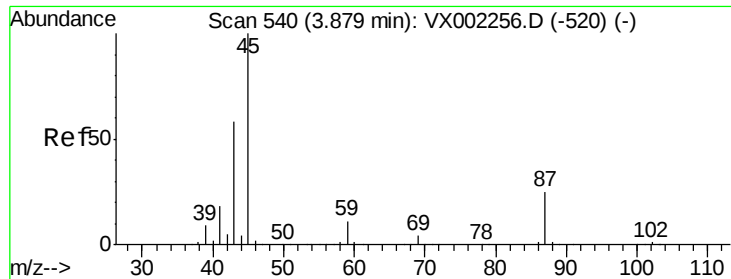


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Tgt Ion: 84 Resp: 4910
Ion Ratio Lower Upper
84 100
49 130.5 107.8 161.6
51 38.2 32.8 49.2
86 60.1 52.5 78.7



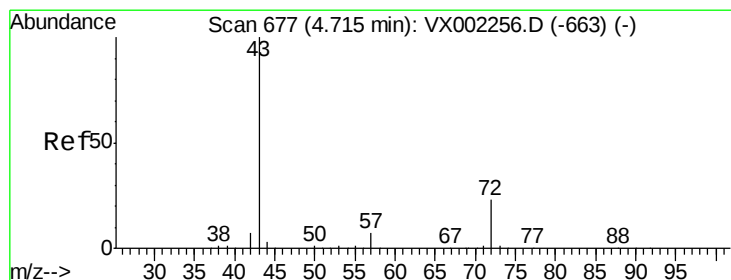
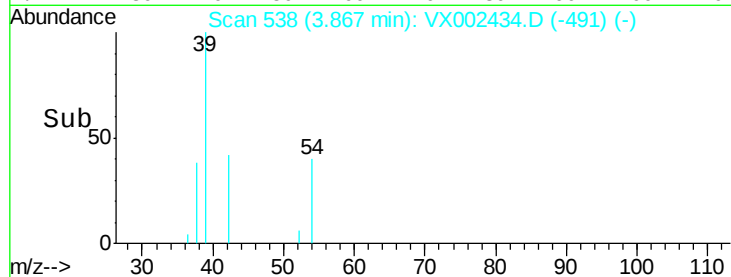
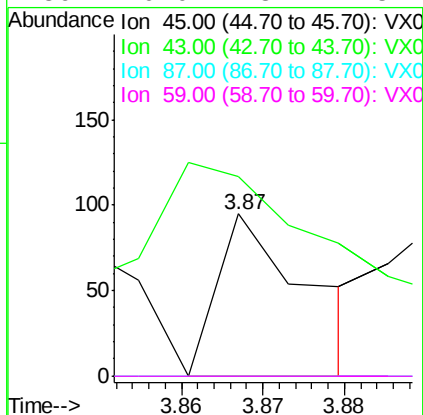
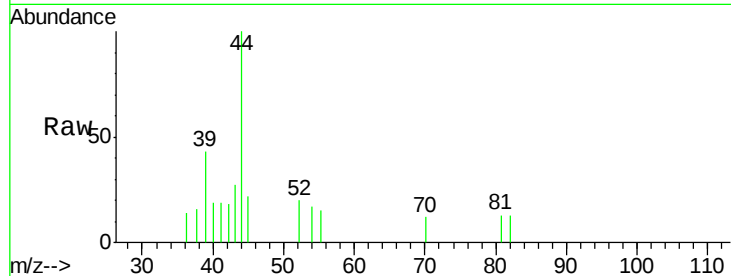


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampled :

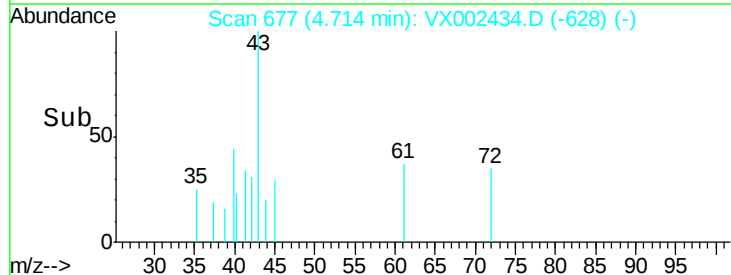
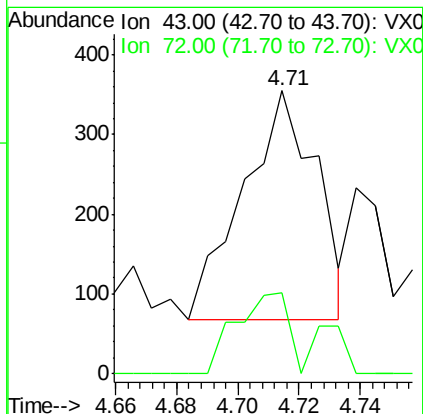
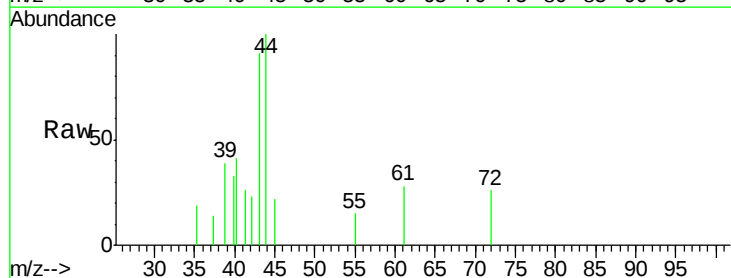
Tot Ion:	45	Resp:	74
Ion	Ratio	Lower	Upper
45	100		
43	41.1	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

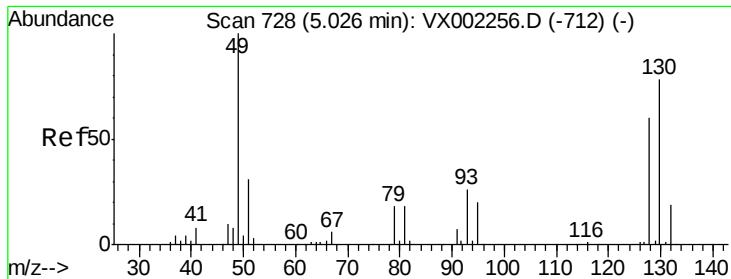


#25

2-Butanone
Concen: 0.23 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Tgt Ion:	43	Resp:	481
Ion	Ratio	Lower	Upper
43	100		
72	35.4	18.5	27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 724

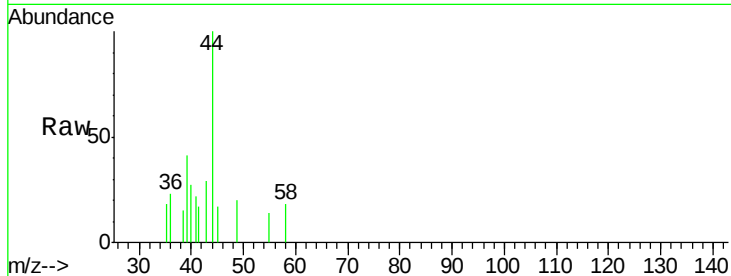
Delta R.T. -0.02 min

Lab File: VX002434.D

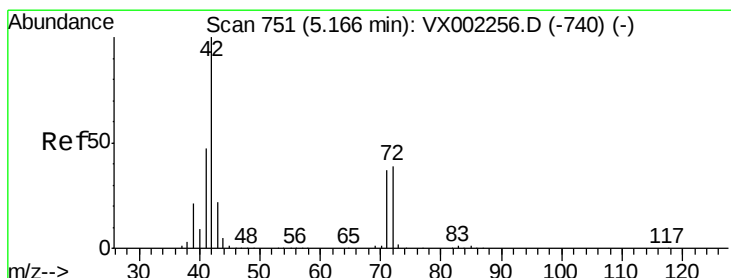
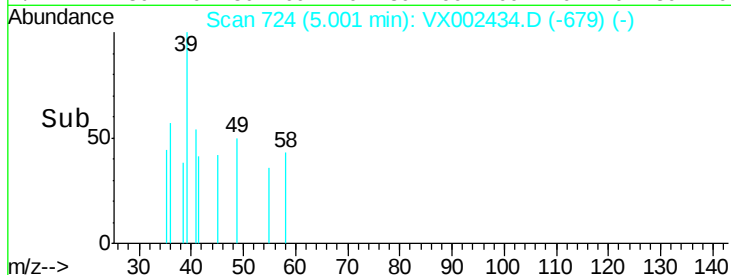
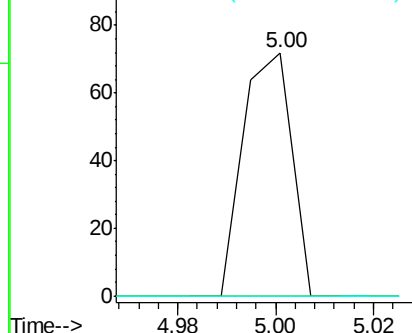
Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 50
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.40 ug/l

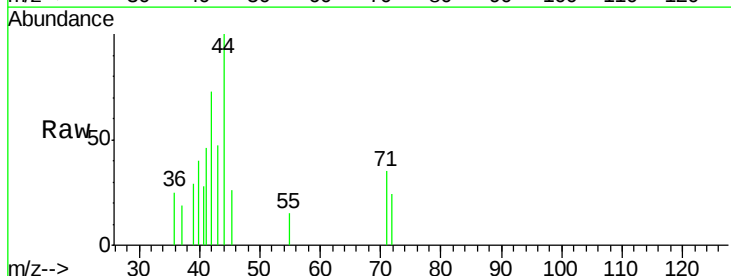
RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

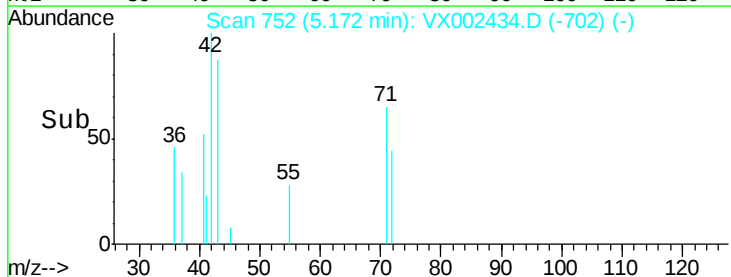
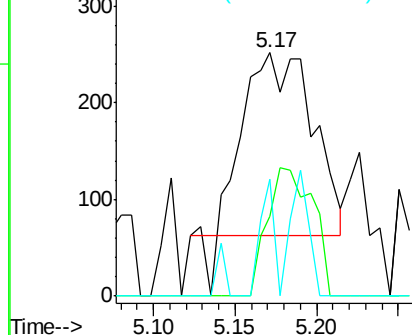
Lab File: VX002434.D

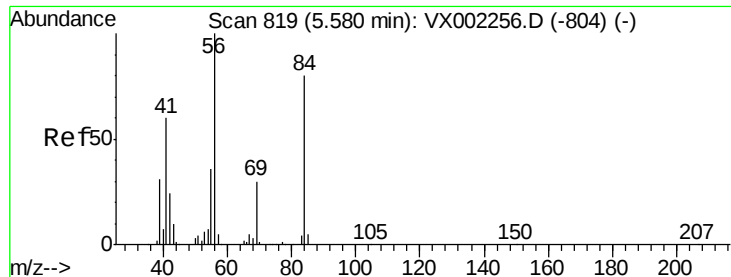
Acq: 09 Jun 2018 21:03

Tgt Ion: 42 Resp: 550
Ion Ratio Lower Upper
42 100
72 46.5 32.0 48.0
71 13.3 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

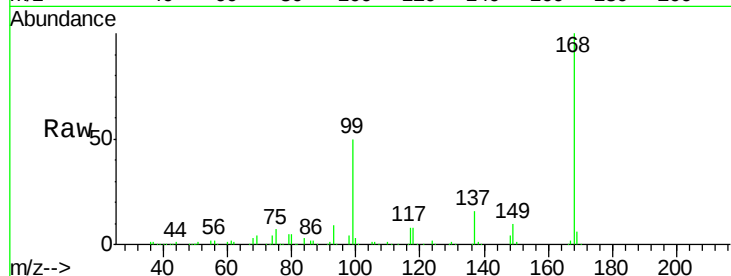




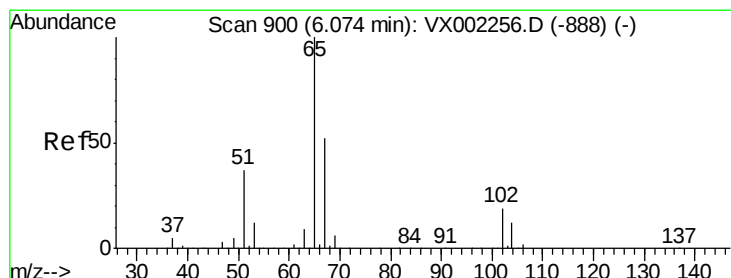
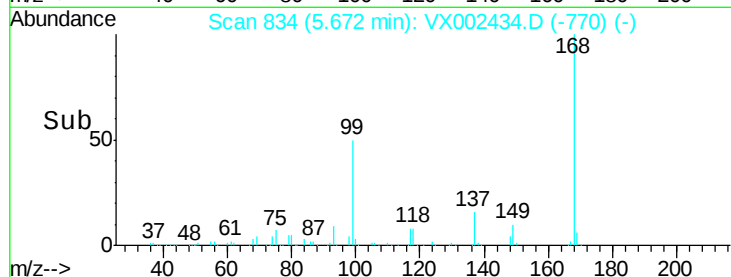
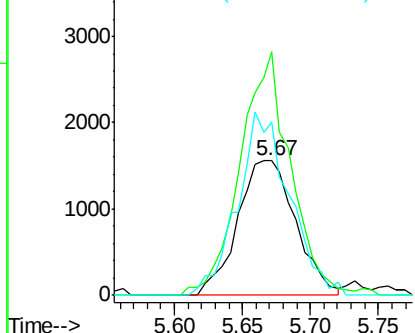
#31
Cyclohexane
Concen: 1.19 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 4649
Ion Ratio Lower Upper
56 100
69 175.7 23.7 35.5#
84 128.3 64.1 96.1#

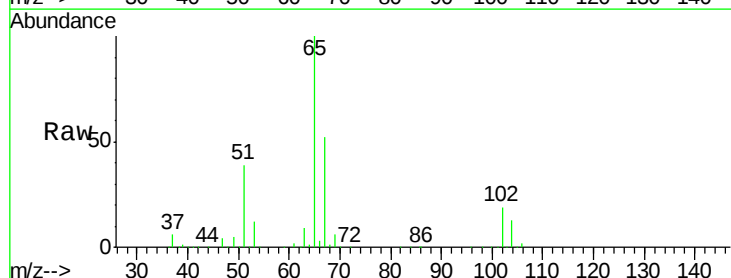


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

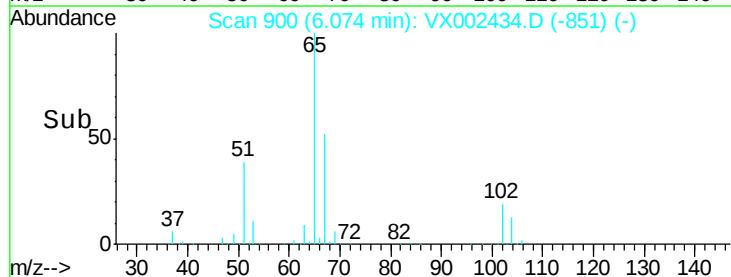
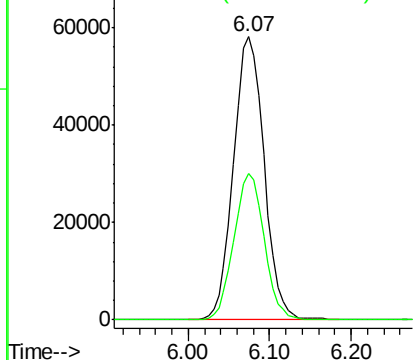


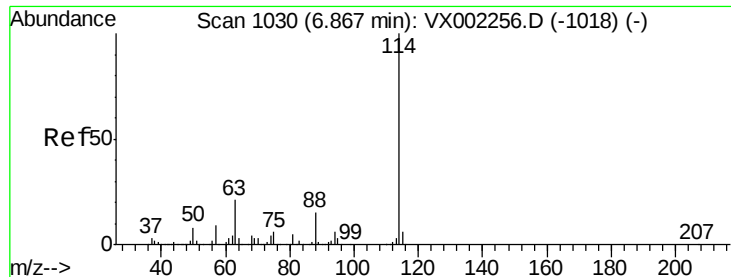
#33
1,2-Dichloroethane-d4
Concen: 48.64 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002434.D
Acq: 09 Jun 2018 21:03

Tgt Ion: 65 Resp: 151207
Ion Ratio Lower Upper
65 100
67 51.2 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: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampleId :

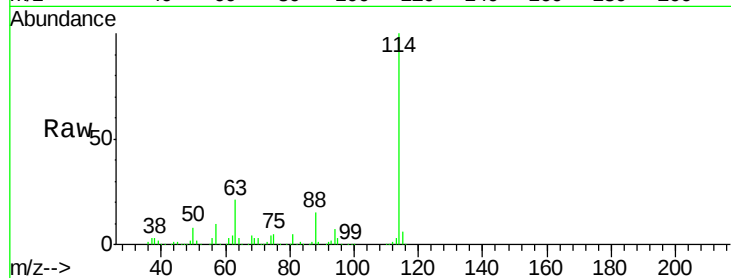
Tot Ion:114 Resp: 318084

Ion Ratio Lower Upper

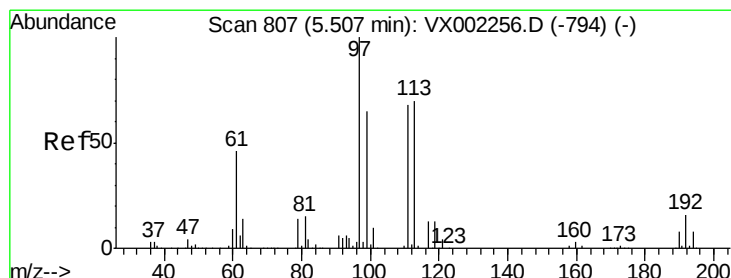
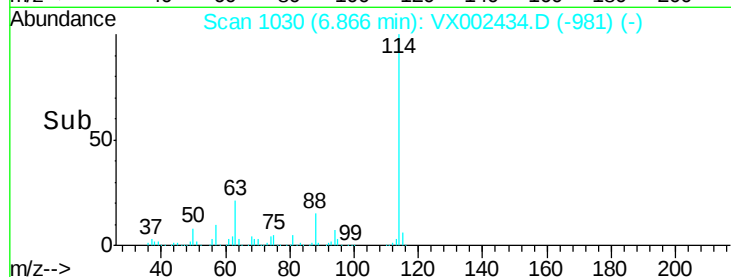
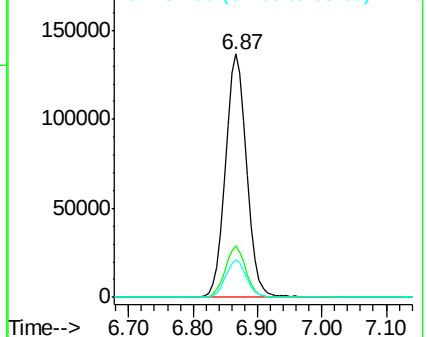
114 100

63 21.1 0.0 41.4

88 15.2 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: 45.77 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

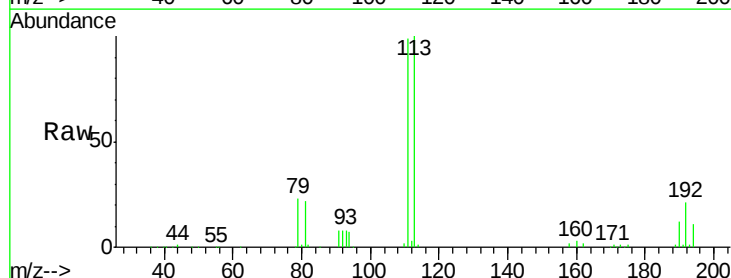
Tgt Ion:113 Resp: 114503

Ion Ratio Lower Upper

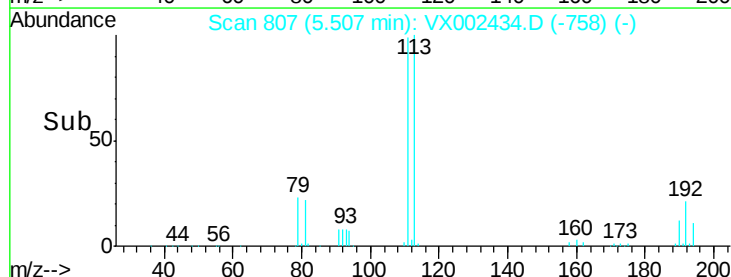
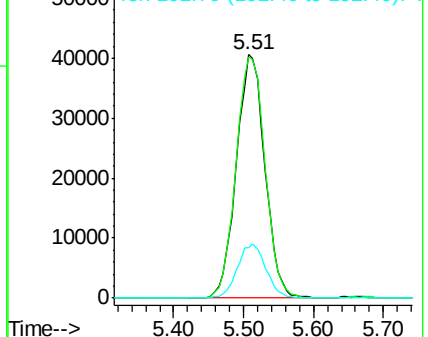
113 100

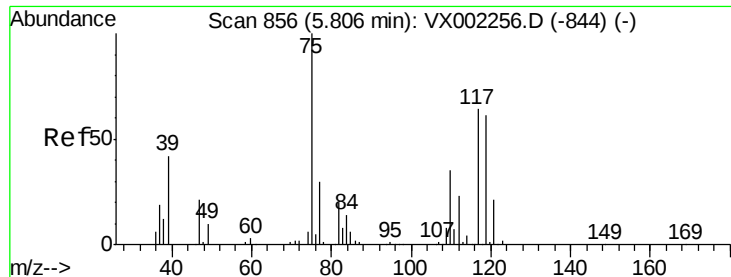
111 101.6 81.4 122.0

192 22.4 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

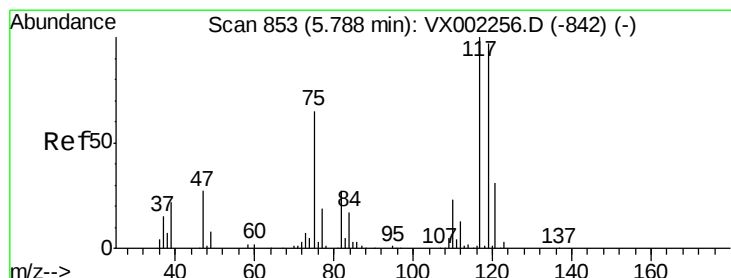
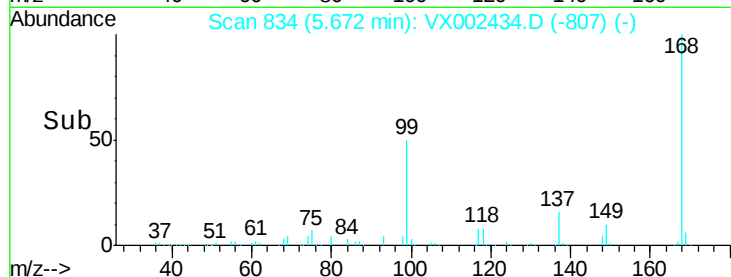
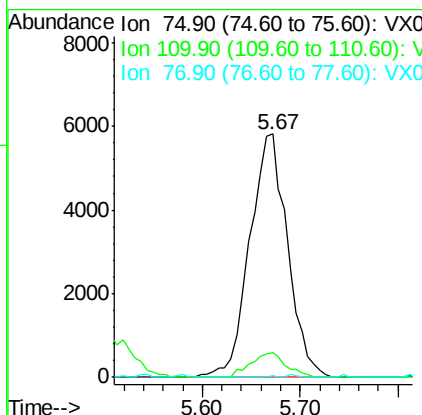
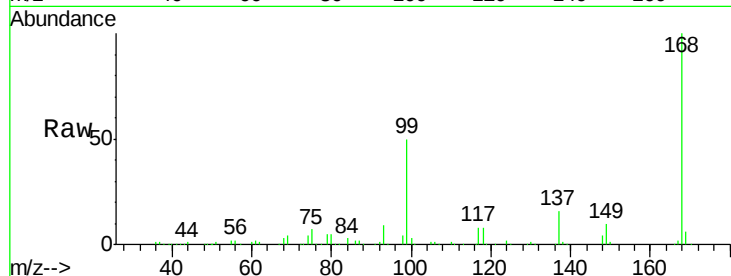




#36
 1,1-Dichloropropene
 Concen: 4.65 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002434.D
 Acq: 09 Jun 2018 21:03

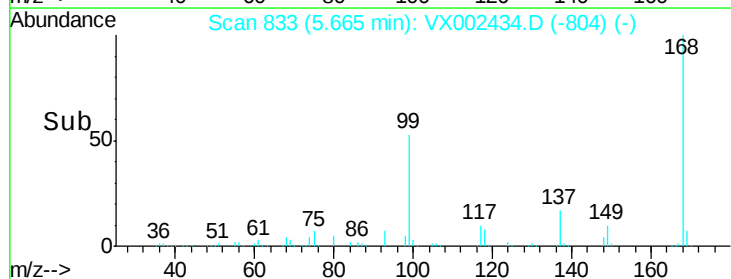
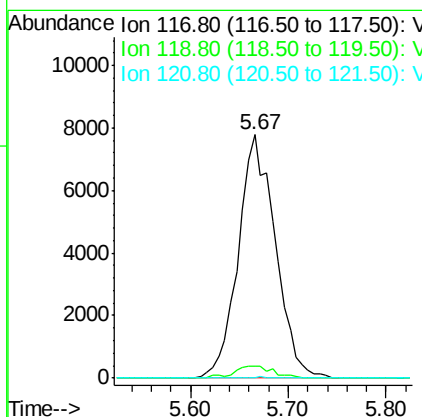
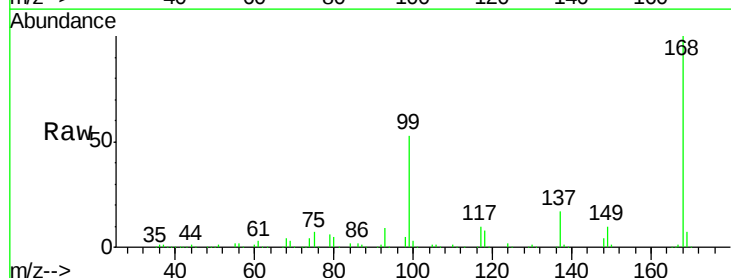
Instrument :
 MSVOA_X
 ClientSampleId :

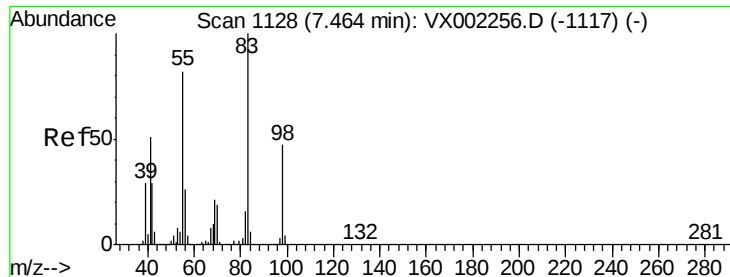
Tot Ion	75	Resp	15566
Ion Ratio	100	Lower	Upper
75	100		
110	9.6	18.1	54.4#
77	0.1	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.83 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002434.D
 Acq: 09 Jun 2018 21:03

Tgt Ion	117	Resp	20409
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.8	77.4	116.0#
121	0.0	24.4	36.6#





#39

Methylcyclohexane

Concen: 0.29 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

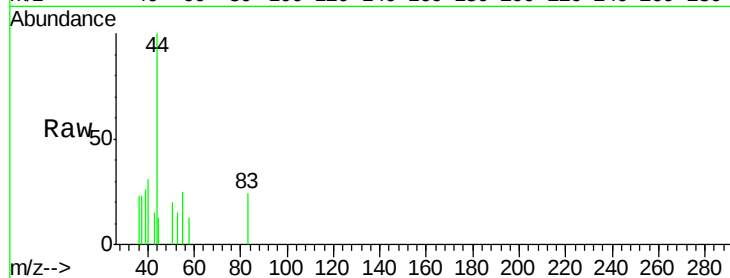
Tot Ion: 83 Resp: 102

Ion Ratio Lower Upper

83 100

55 104.3 65.4 98.0#

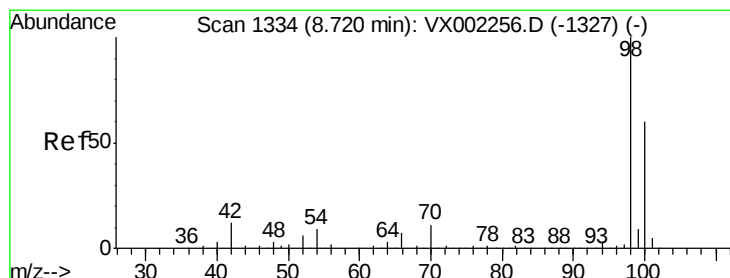
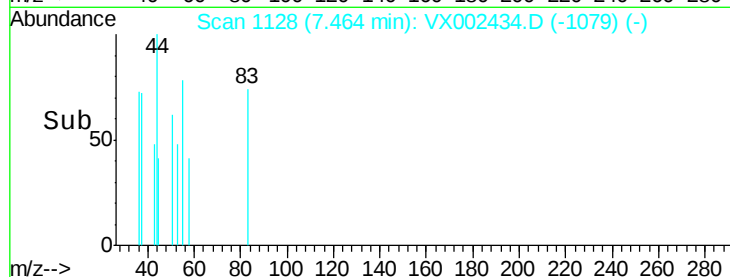
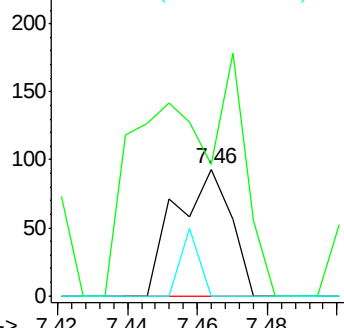
98 0.0 37.4 56.0#



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: 47.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002434.D

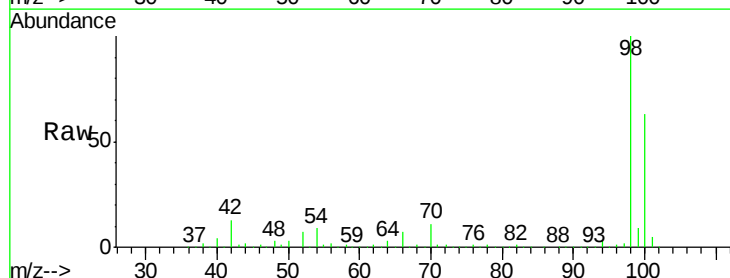
Acq: 09 Jun 2018 21:03

Tgt Ion: 98 Resp: 455658

Ion Ratio Lower Upper

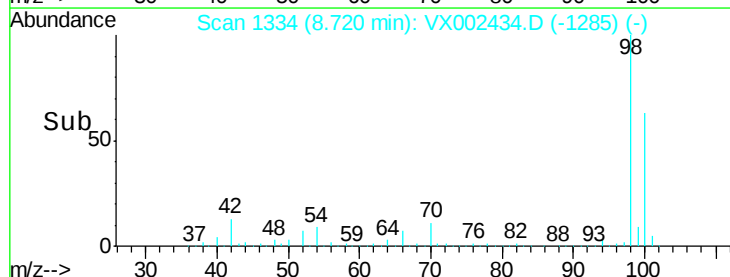
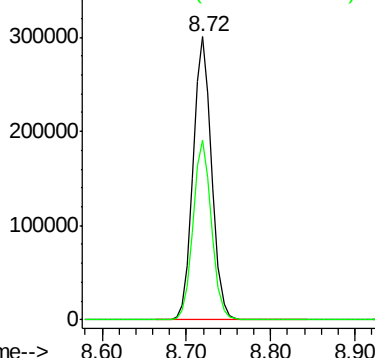
98 100

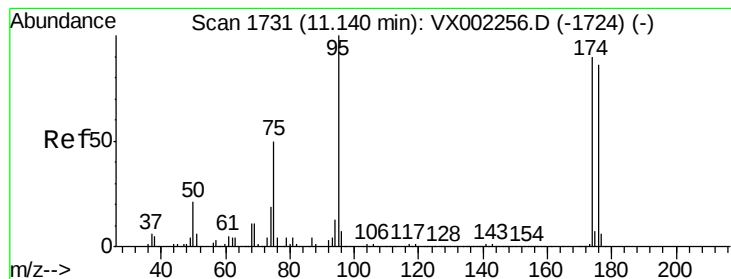
100 62.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampleId :

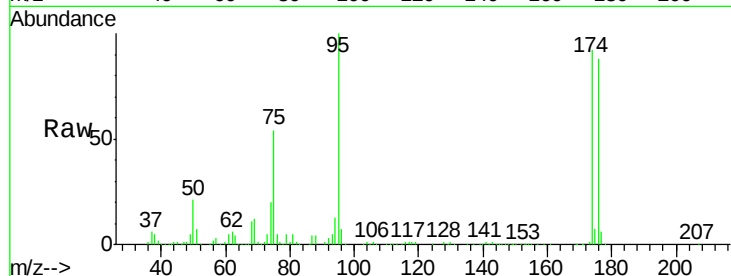
Tot Ion: 95 Resp: 157410

Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.4

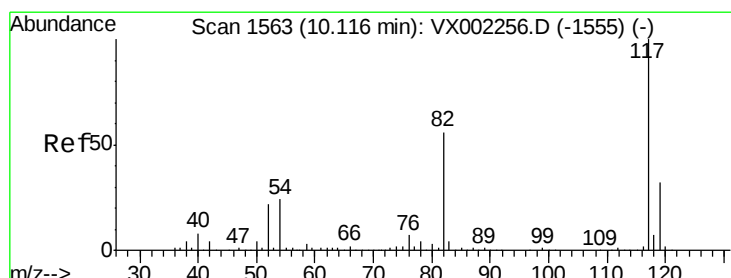
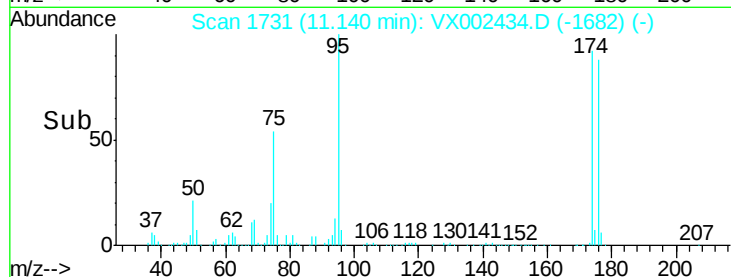
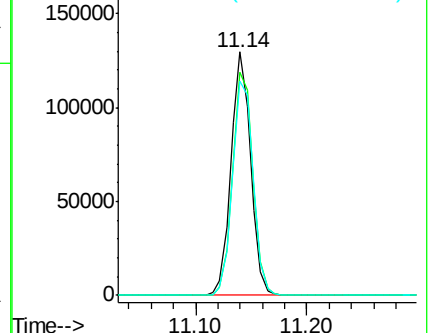
176 93.2 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

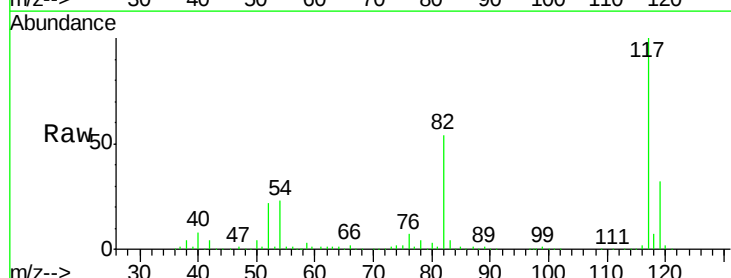
Tgt Ion: 117 Resp: 293212

Ion Ratio Lower Upper

117 100

82 53.7 45.0 67.4

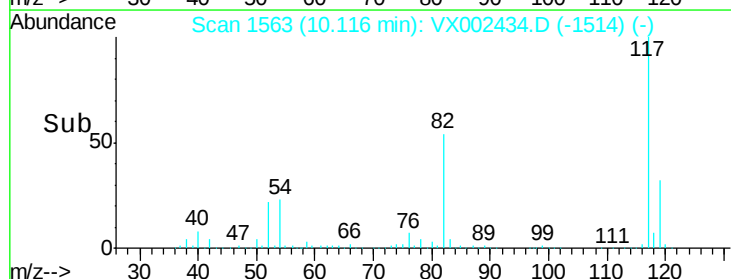
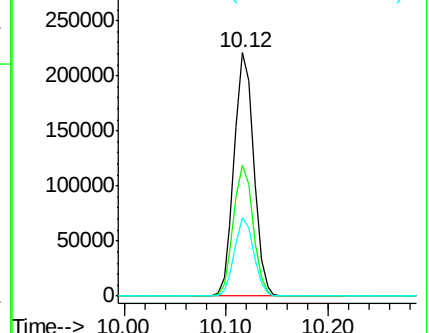
119 32.2 25.8 38.6

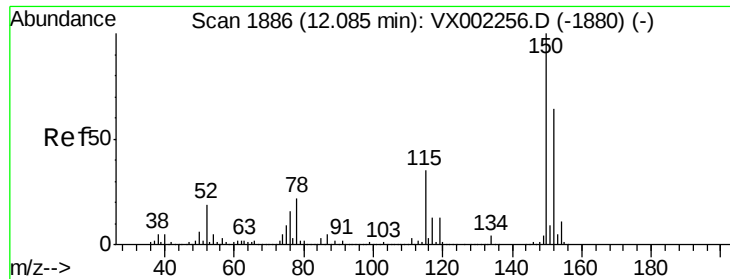


Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

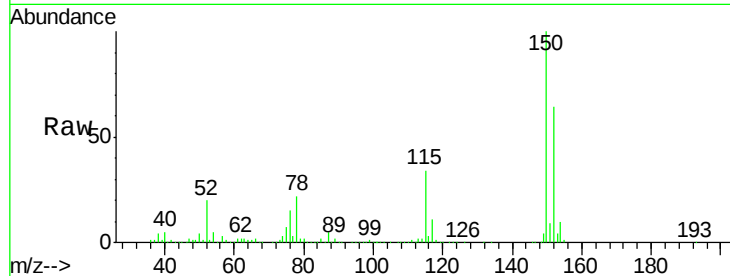
Tot Ion:152 Resp: 161070

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

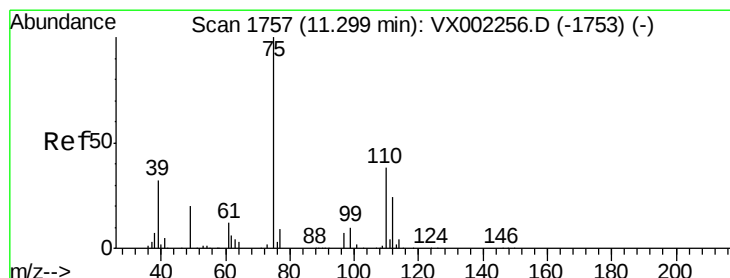
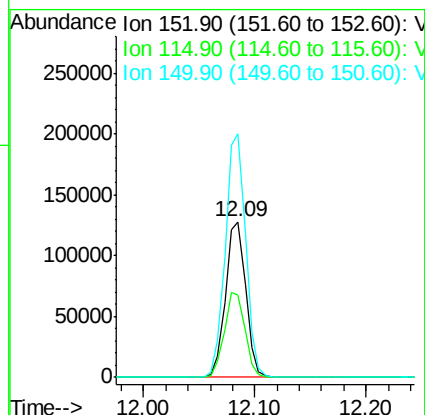
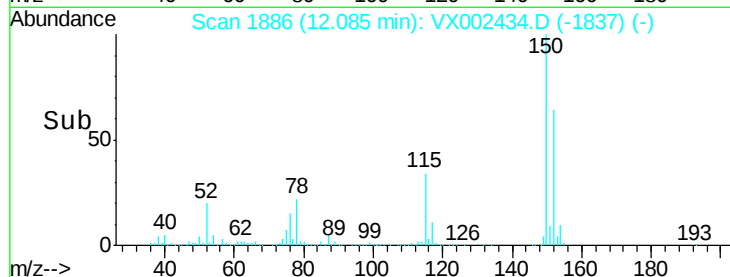
150 156.7 0.0 347.2



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: 24.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002434.D

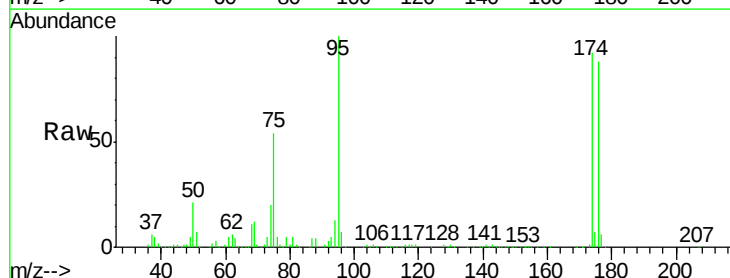
Acq: 09 Jun 2018 21:03

Tgt Ion: 75 Resp: 84937

Ion Ratio Lower Upper

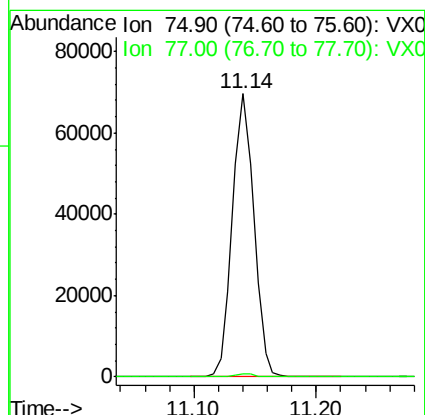
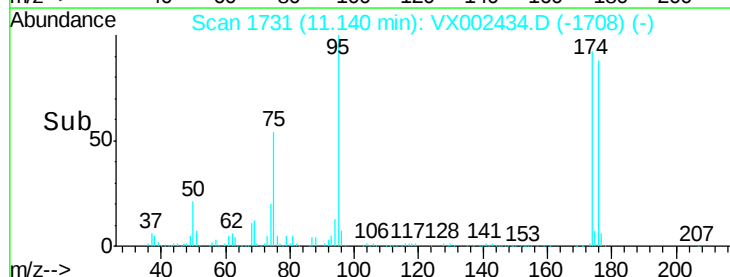
75 100

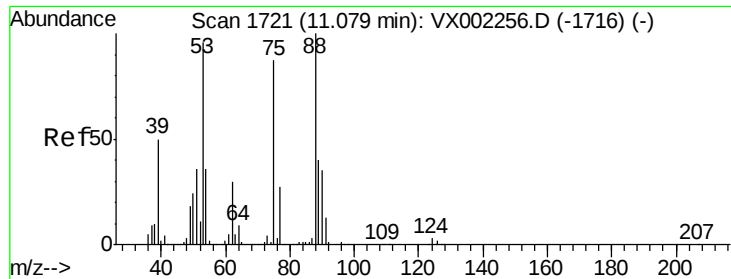
77 1.1 22.8 68.3#



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: 84.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

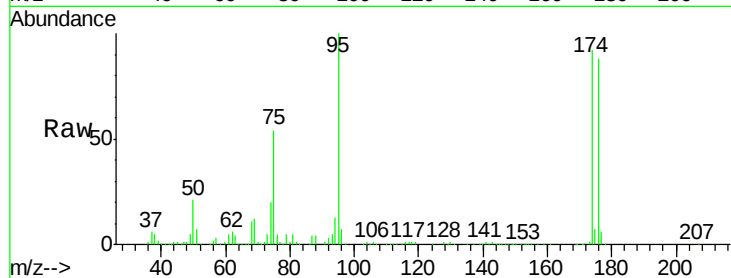
Lab File: VX002434.D

Acq: 09 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampleId :



Tot Ion: 75 Resp: 84937

Ion	Ratio	Lower	Upper
75	100		
53	0.0	86.8	130.2#
89	0.0	38.2	57.2#

