

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060518\
 Data File : VX002333.D
 Acq On : 06 Jun 2018 04:24
 Operator : JC/MD
 Sample : J3308-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-20

Quant Time: Jun 06 07:38:02 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	235702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	352914	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	332460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	194553	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	170525	50.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.28%	
35) Dibromofluoromethane	5.51	113	124914	45.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.02%	
50) Toluene-d8	8.72	98	506513	47.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.22%	
62) 4-Bromofluorobenzene	11.14	95	182826	44.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.14%	

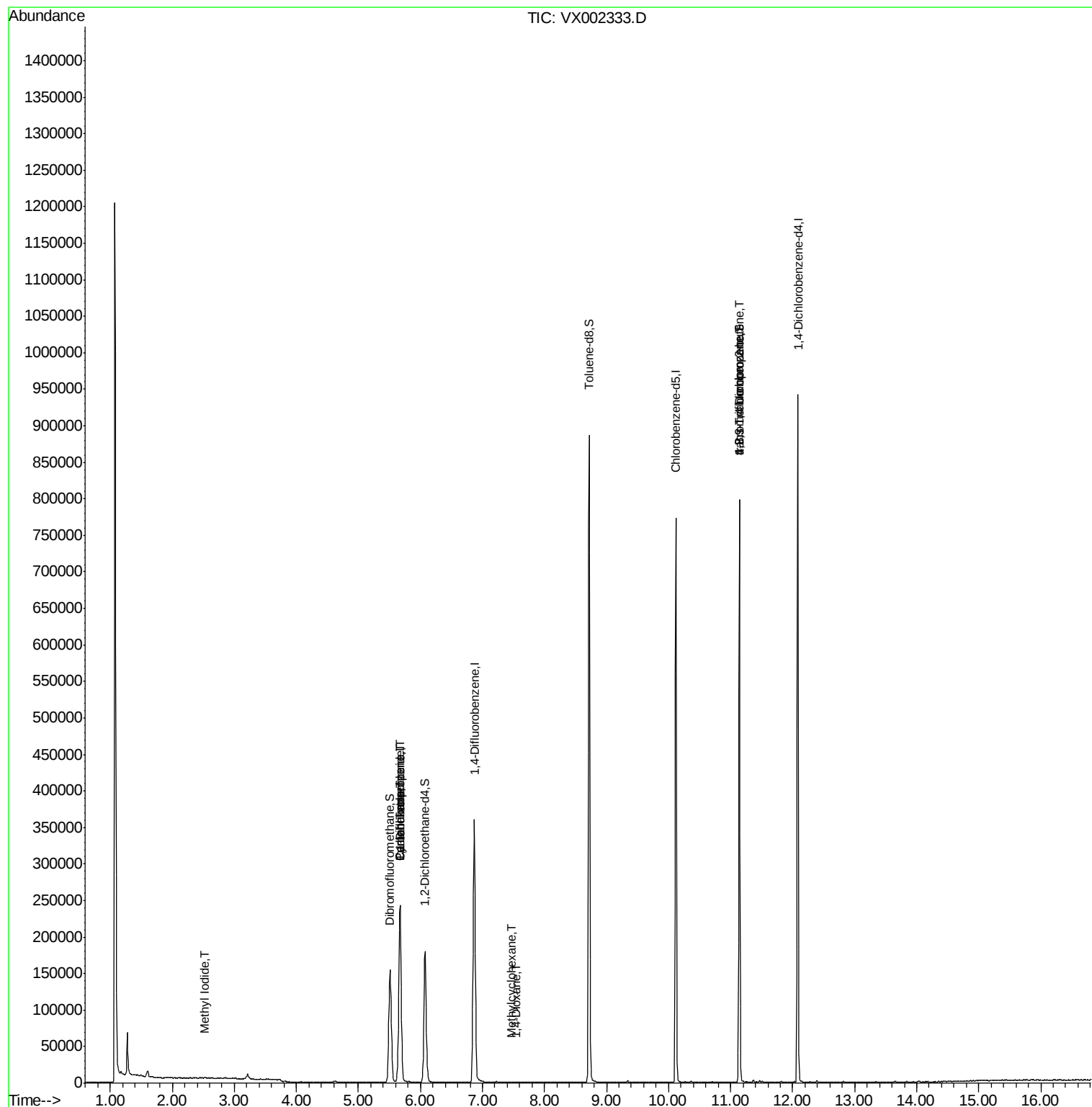
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	400	Below Cal	#	69
5) Bromomethane	1.65	94	963	Below Cal	#	95
8) Diethyl Ether	2.19	74	35	Below Cal	#	1
10) Methyl Iodide	2.53	142	766	0.21 ug/l	#	81
11) Tert butyl alcohol	3.07	59	495	Below Cal	#	96
13) Acrolein	2.30	56	65	Below Cal	#	1
15) Acrylonitrile	3.15	53	299	Below Cal	#	79
16) Acetone	2.45	43	1402	Below Cal	#	79
18) Methyl Acetate	2.79	43	158	Below Cal	#	55
19) Methyl tert-butyl Ether	3.21	73	6868	Below Cal	#	90
20) Methylene Chloride	2.86	84	474	Below Cal	#	83
22) Diisopropyl ether	3.85	45	55	Below Cal	#	73
28) Bromochloromethane	5.02	49	67	Below Cal	#	13
31) Cyclohexane	5.67	56	5584	1.31 ug/l	#	18
36) 1,1-Dichloropropene	5.67	75	17117	4.61 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	22637	5.83 ug/l	#	15
39) Methylcyclohexane	7.47	83	59	0.28 ug/l	#	33
49) 1,4-Dioxane	7.55	88	24	0.34 ug/l	#	1
76) 1,2,3-Trichloropropane	11.14	75	98653	23.11 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	98653	81.01 ug/l	#	6

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

Instrument :

MSVOA_X

ClientSampleId :

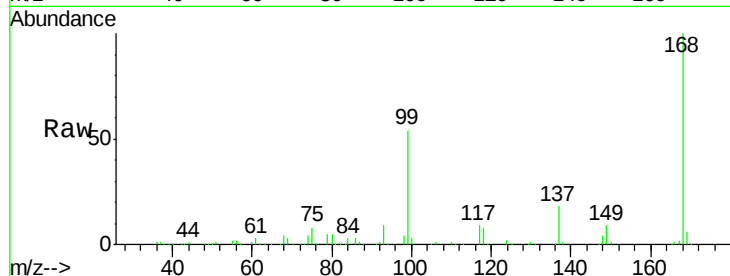
MW-20

Tgt Ion:168 Resp: 235702

Ion Ratio Lower Upper

168 100

99 54.2 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

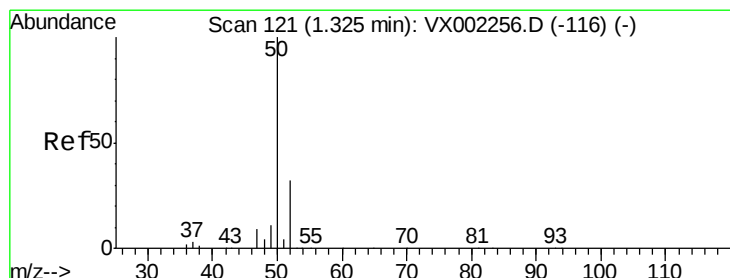
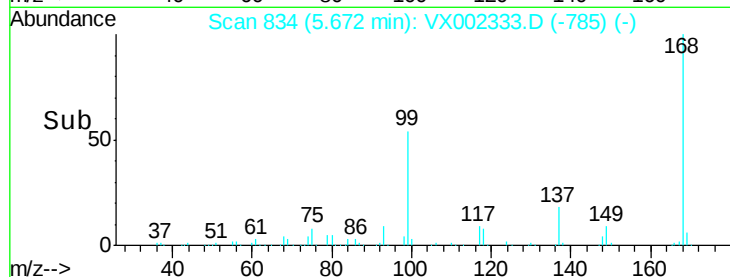
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002333.D

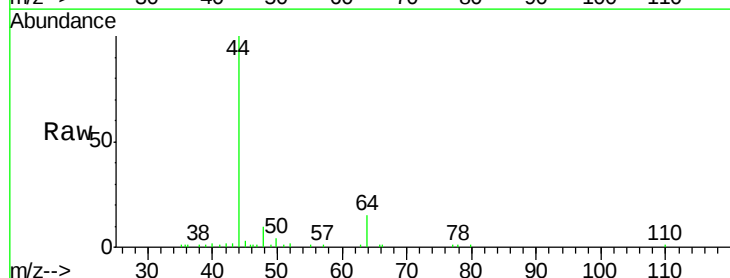
Acq: 06 Jun 2018 04:24

Tgt Ion: 50 Resp: 400

Ion Ratio Lower Upper

50 100

52 49.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1000

800

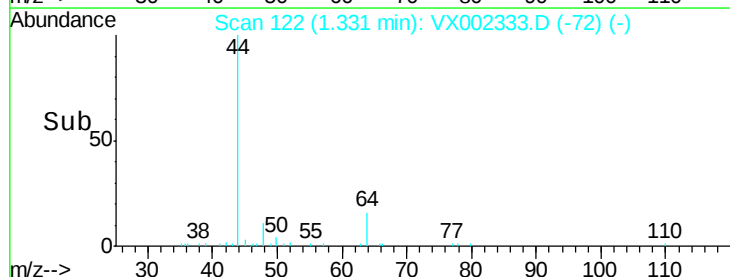
600

400

200

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: VX002333.D

Acq: 06 Jun 2018 04:24

Instrument :

MSVOA_X

ClientSampled :

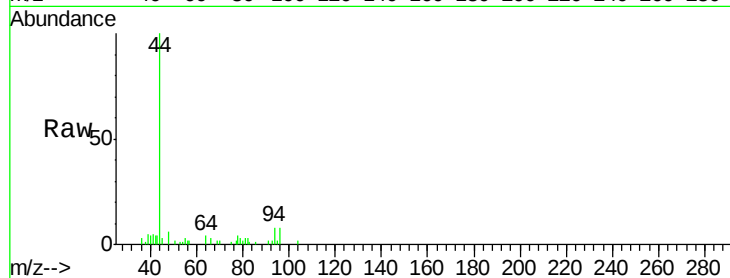
MW-20

Tgt Ion: 94 Resp: 963

Ion Ratio Lower Upper

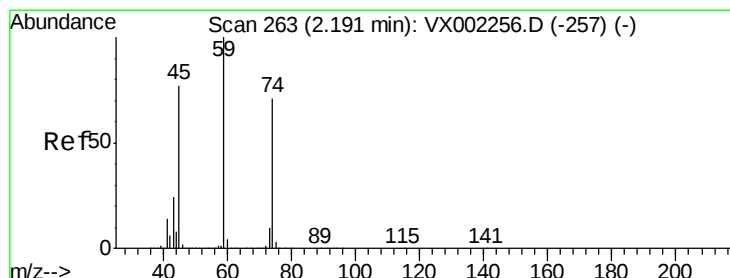
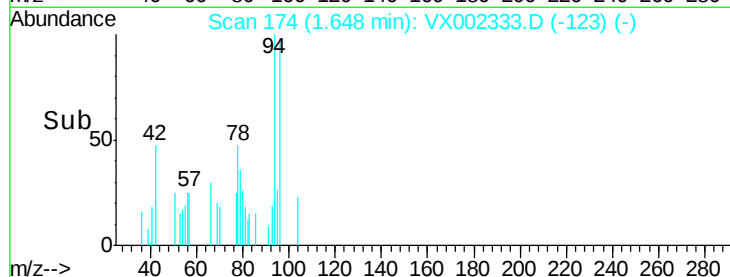
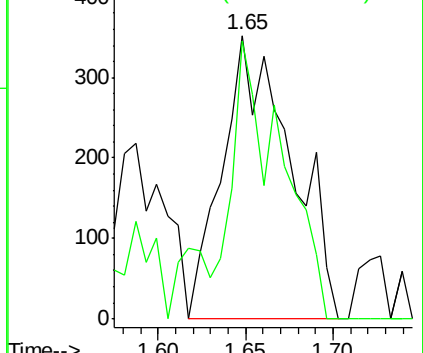
94 100

96 98.0 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: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002333.D

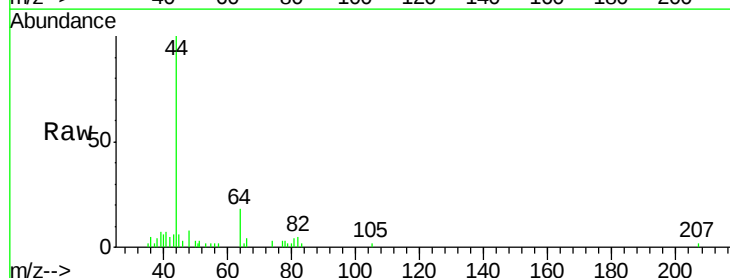
Acq: 06 Jun 2018 04:24

Tgt Ion: 74 Resp: 35

Ion Ratio Lower Upper

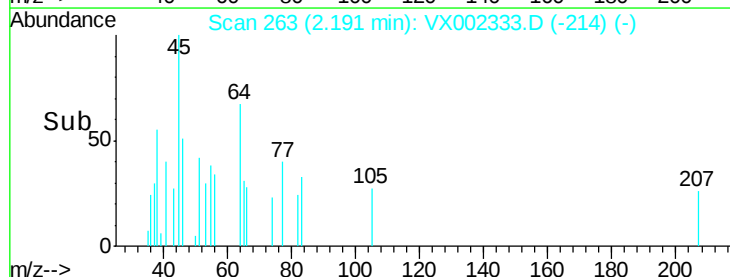
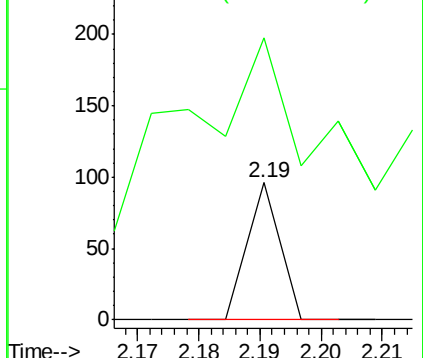
74 100

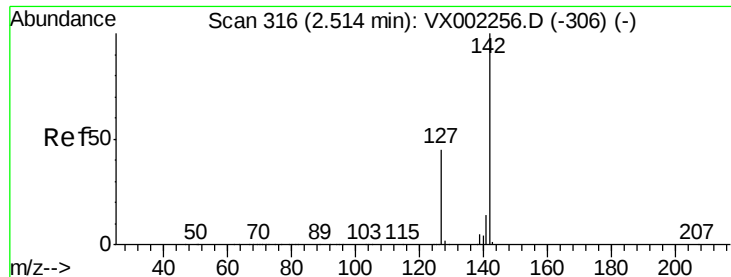
45 628.6 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

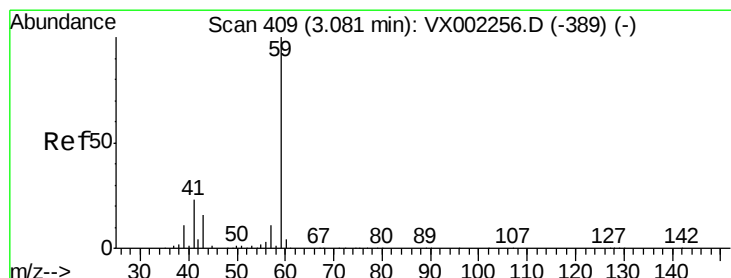
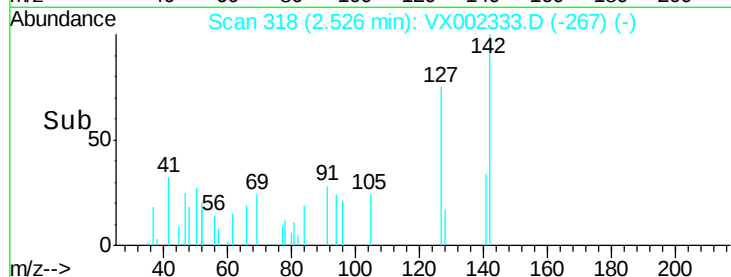
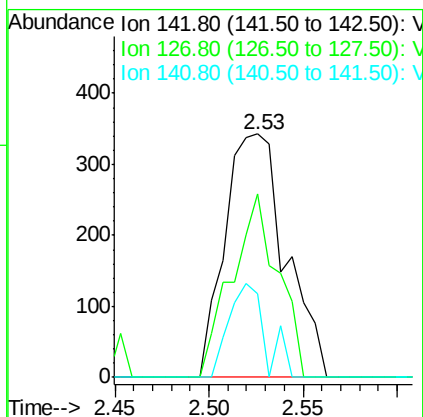
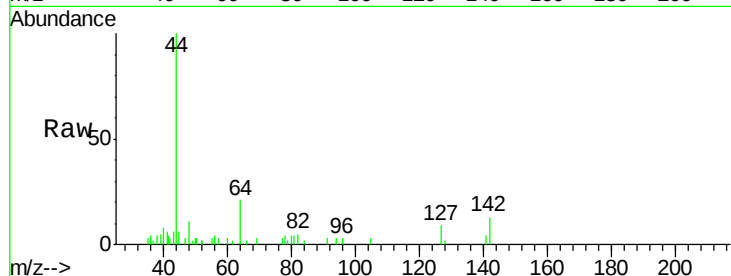




#10
Methyl Iodide
Concen: 0.21 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

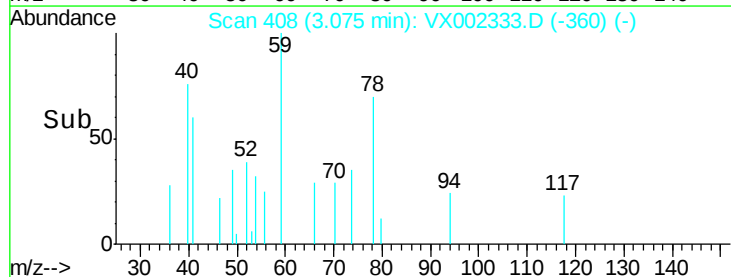
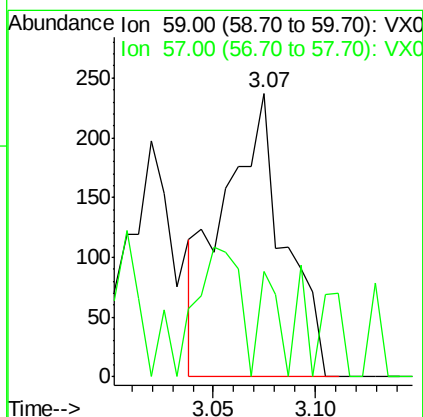
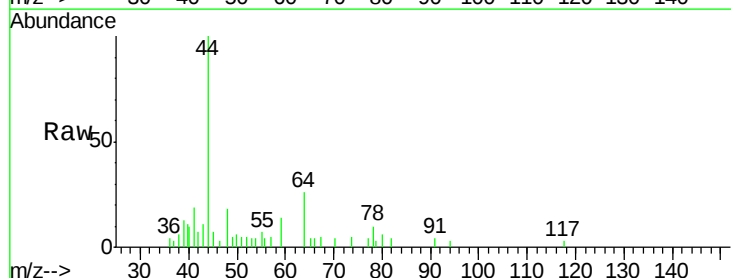
Instrument :
MSVOA_X
ClientSampled :
MW-20

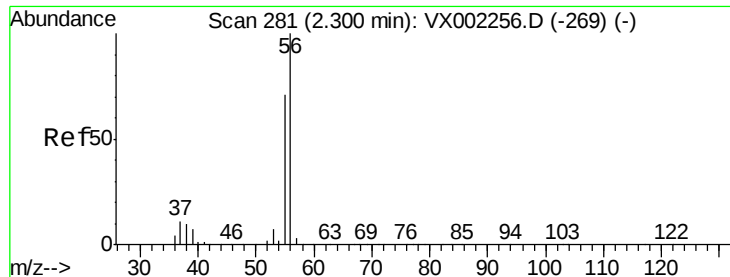
Tgt Ion: 142 Resp: 766
Ion Ratio Lower Upper
142 100
127 57.3 36.6 55.0#
141 23.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

Tgt Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 11.5 8.2 12.2





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

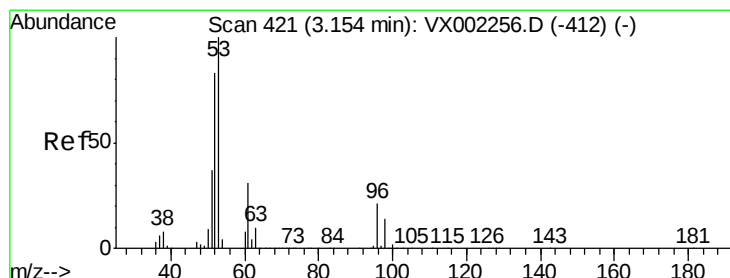
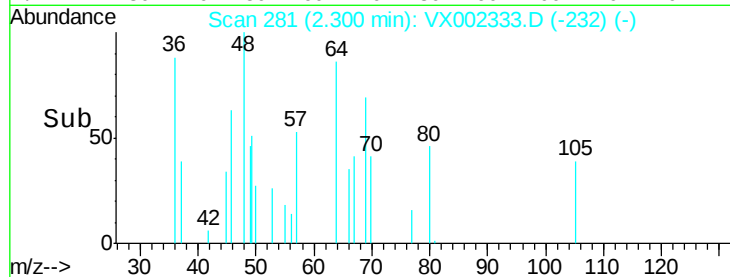
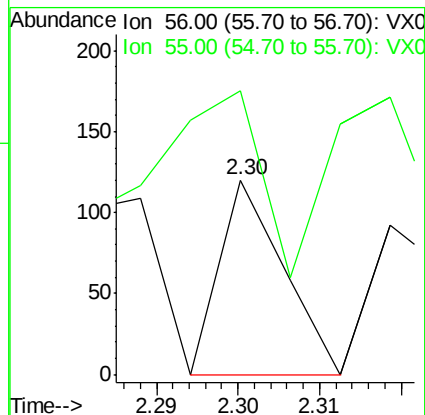
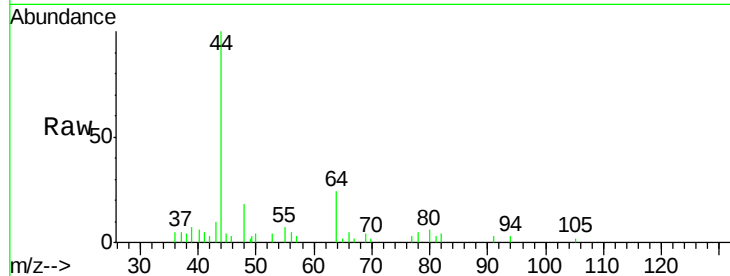
Instrument :
MSVOA_X
ClientSampled :
MW-20

Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 189.2 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

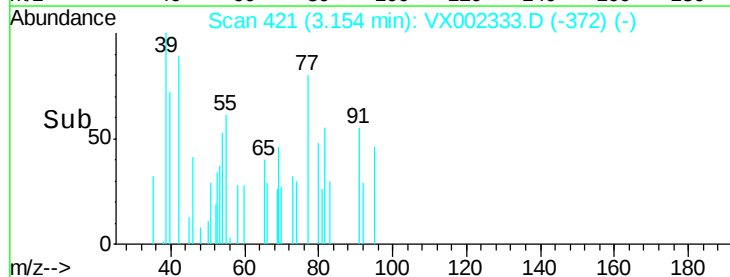
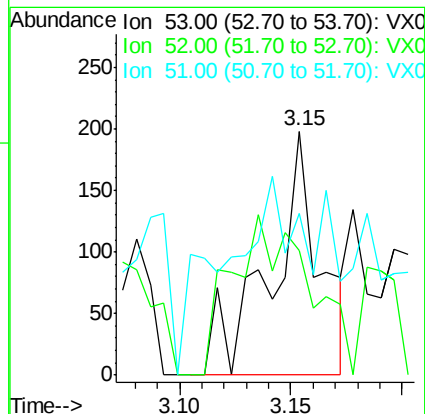
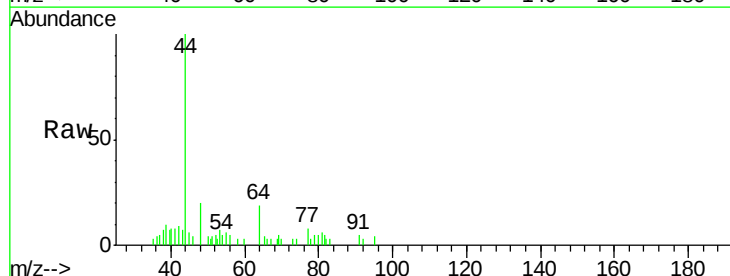
Tgt Ion: 53 Resp: 299

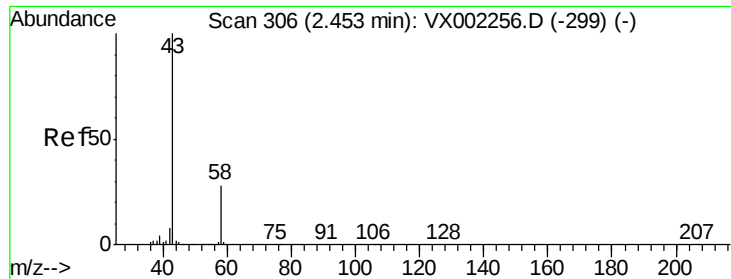
Ion Ratio Lower Upper

53 100

52 104.7 66.7 100.1#

51 27.4 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

Instrument :

MSVOA_X

ClientSampleId :

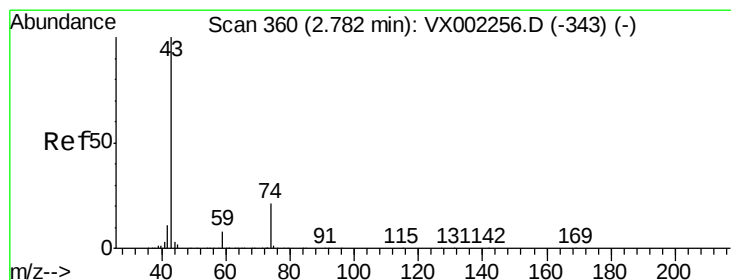
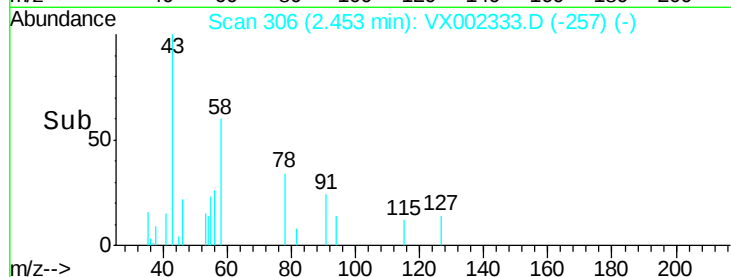
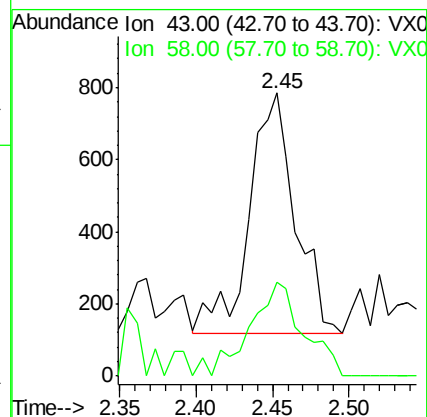
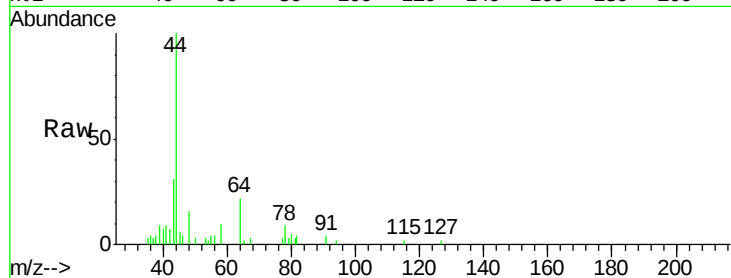
MW-20

Tgt Ion: 43 Resp: 1402

Ion Ratio Lower Upper

43 100

58 38.8 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002333.D

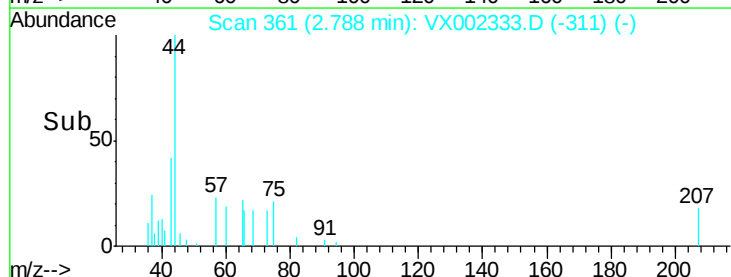
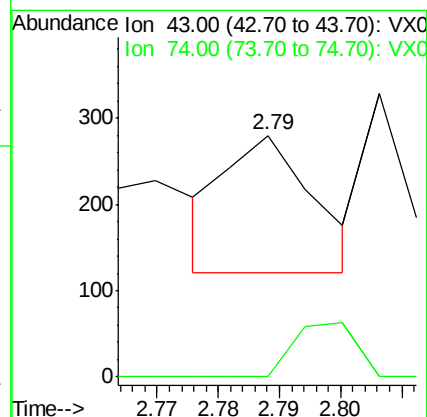
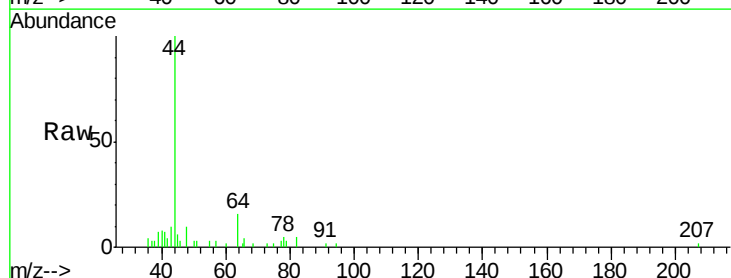
Acq: 06 Jun 2018 04:24

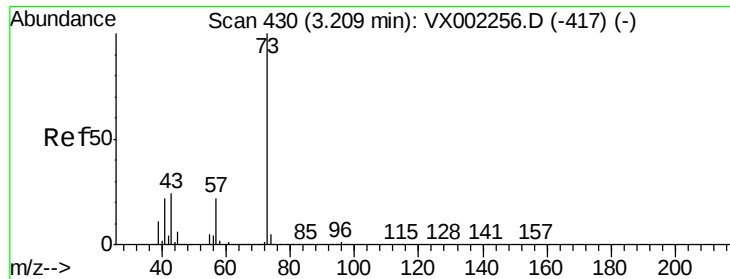
Tgt Ion: 43 Resp: 158

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#

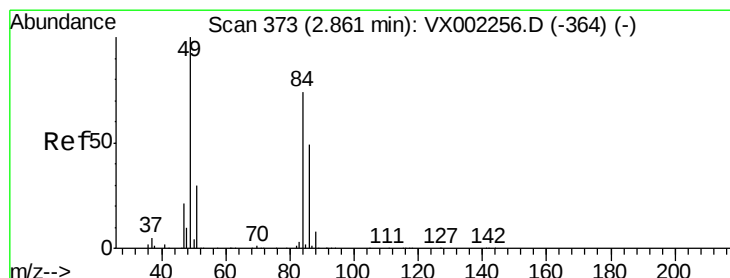
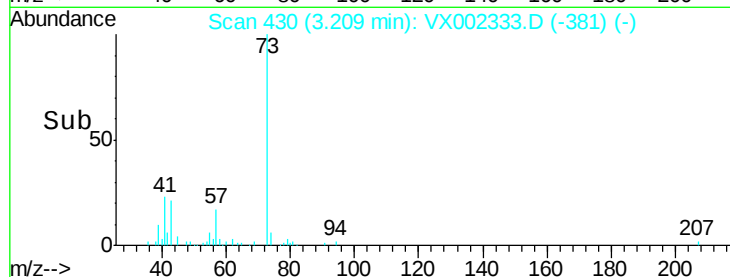
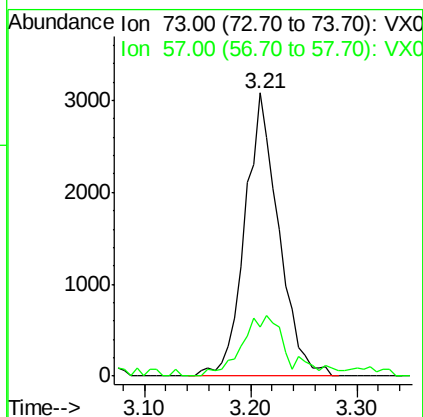
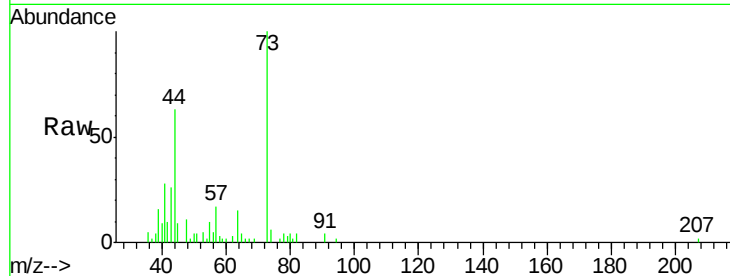




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

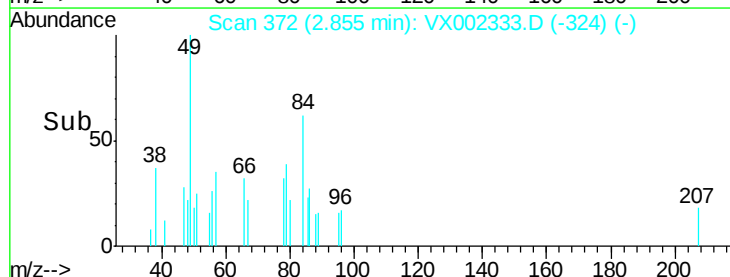
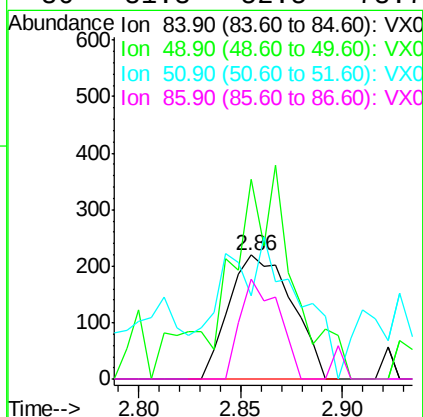
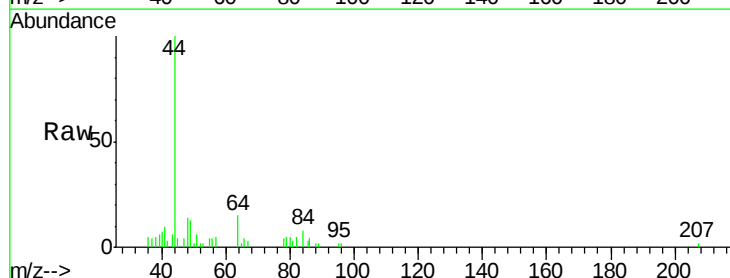
Instrument :
MSVOA_X
ClientSampleId :
MW-20

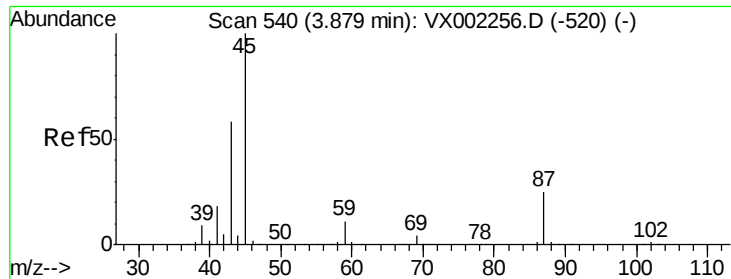
Tgt Ion: 73 Resp: 6868
Ion Ratio Lower Upper
73 100
57 17.5 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

Tgt Ion: 84 Resp: 474
Ion Ratio Lower Upper
84 100
49 125.6 107.8 161.6
51 67.6 32.8 49.2#
86 81.3 52.5 78.7#



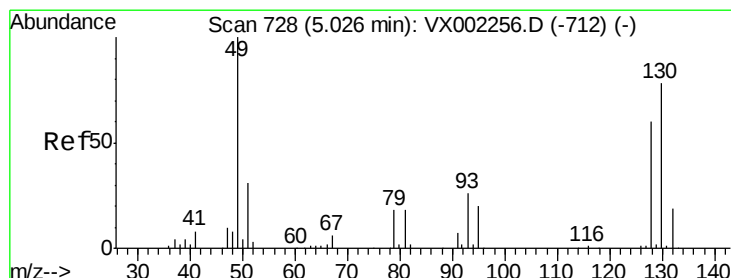
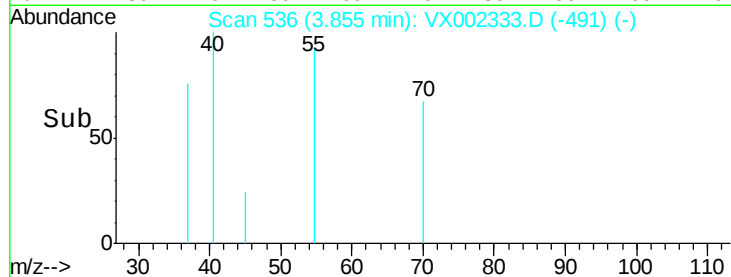
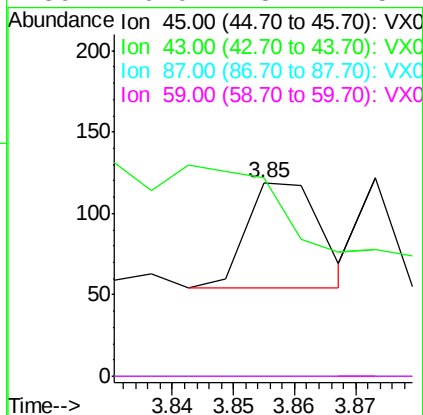
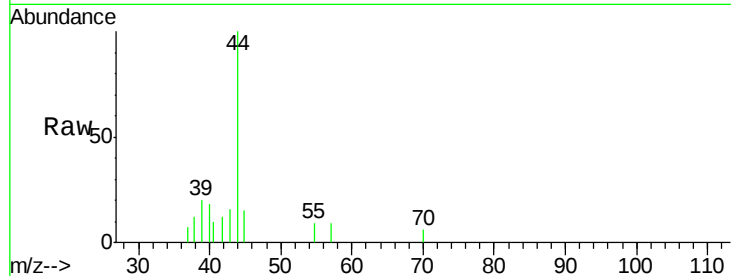


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 536
Delta R.T. -0.02 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

Instrument :
MSVOA_X
ClientSampled :
MW-20

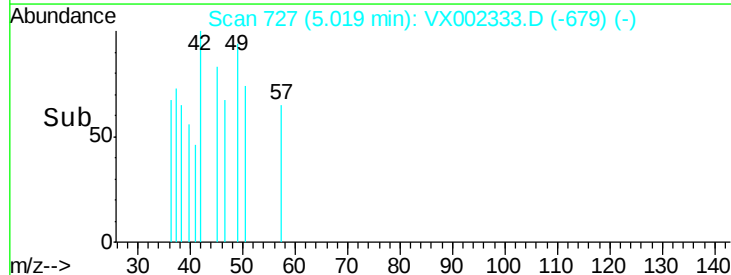
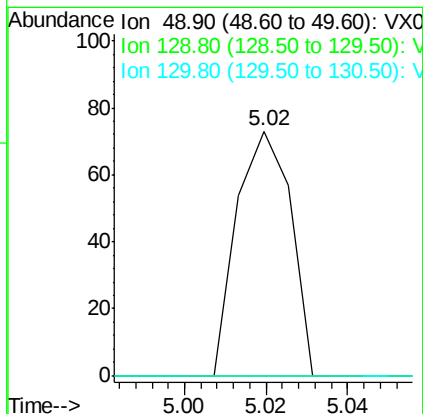
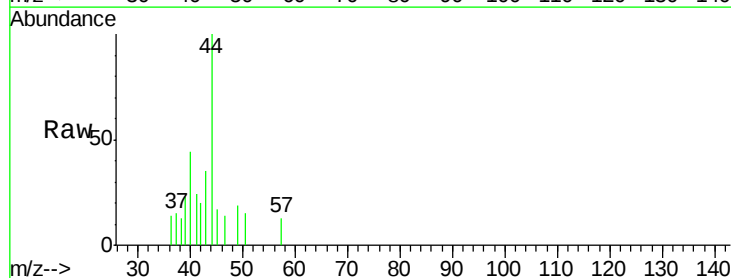
Tgt Ion:	45	Resp:	55
Ion	Ratio	Lower	Upper
45	100		
43	70.8	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

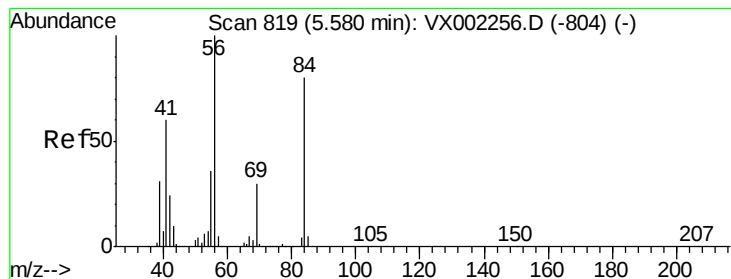


#28

Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 727
Delta R.T. -0.01 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

Tgt Ion:	49	Resp:	67
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#





#31

Cyclohexane

Concen: 1.31 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

Instrument :

MSVOA_X

ClientSampleId :

MW-20

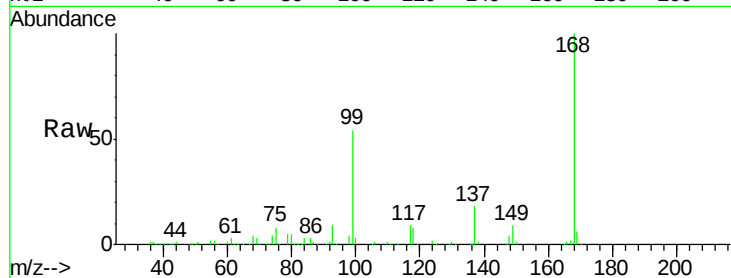
Tgt Ion: 56 Resp: 5584

Ion Ratio Lower Upper

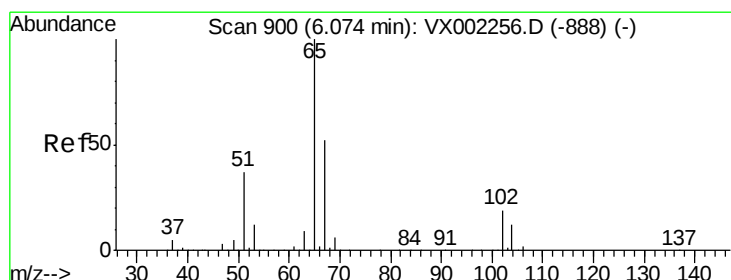
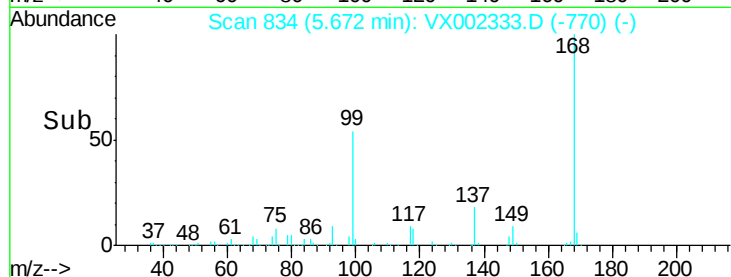
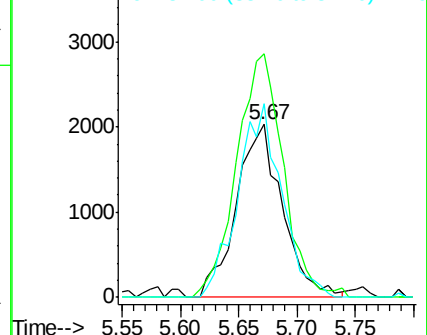
56 100

69 140.8 23.7 35.5#

84 111.9 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: 50.64 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002333.D

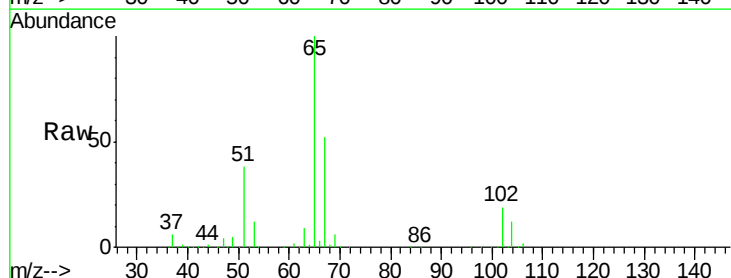
Acq: 06 Jun 2018 04:24

Tgt Ion: 65 Resp: 170525

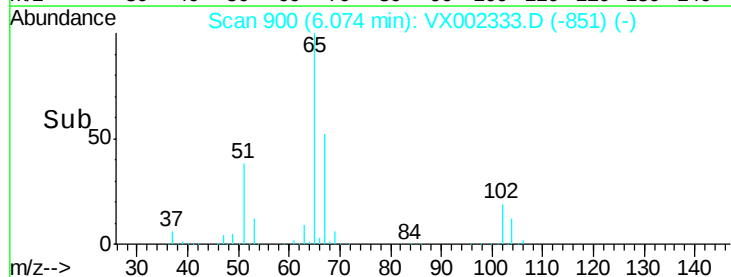
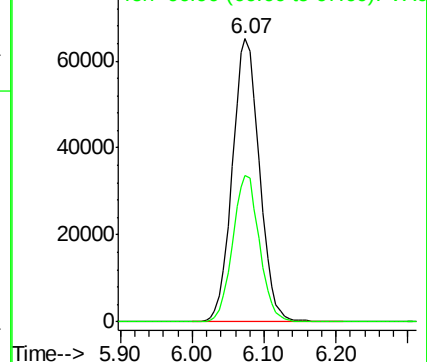
Ion Ratio Lower Upper

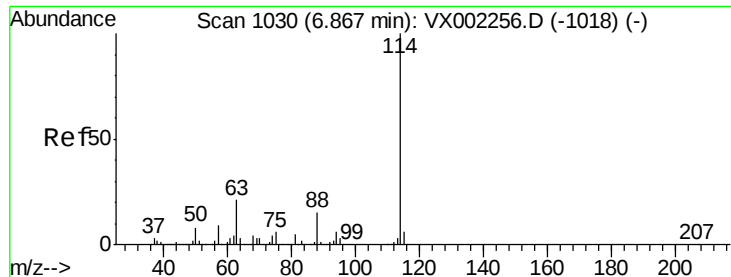
65 100

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: VX002333.D

Acq: 06 Jun 2018 04:24

Instrument :

MSVOA_X

ClientSampleId :

MW-20

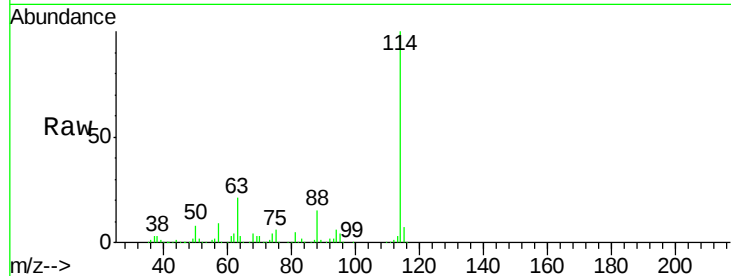
Tgt Ion:114 Resp: 352914

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

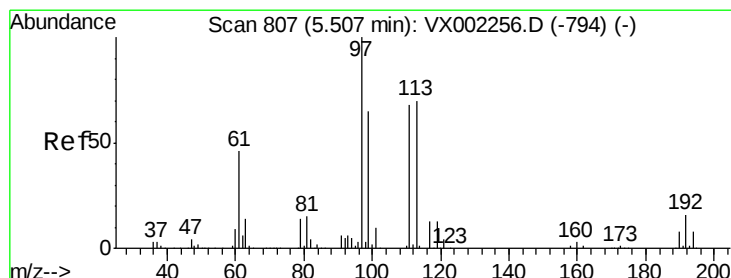
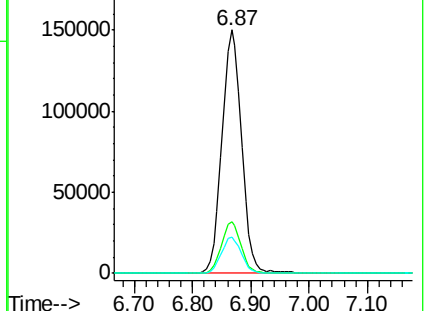
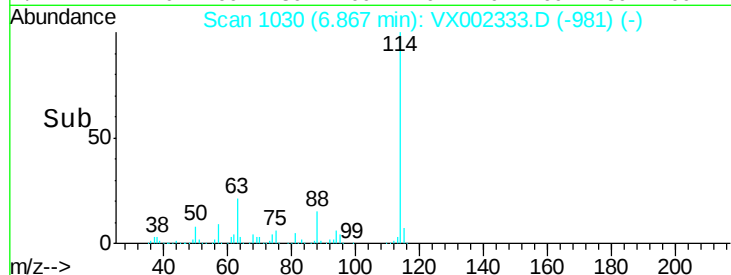
88 15.1 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.01 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

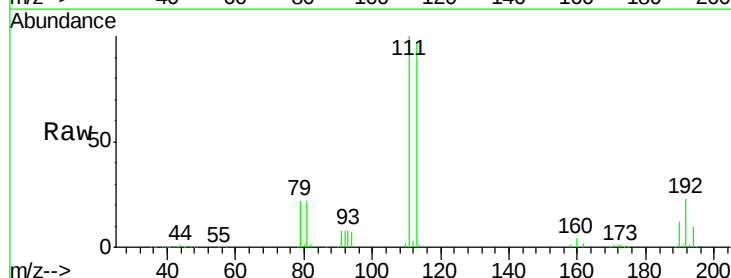
Tgt Ion:113 Resp: 124914

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

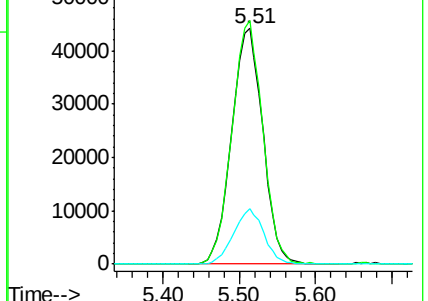
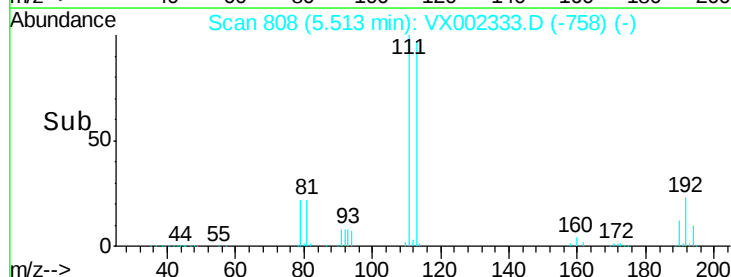
192 22.8 19.1 28.7

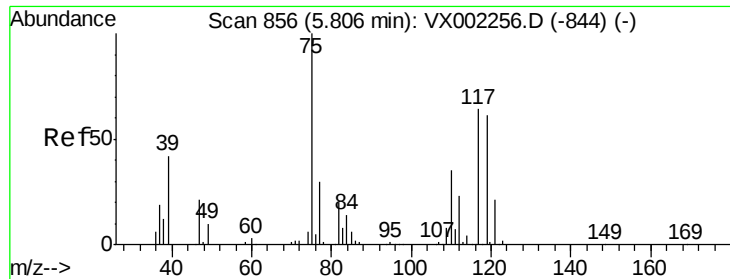


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

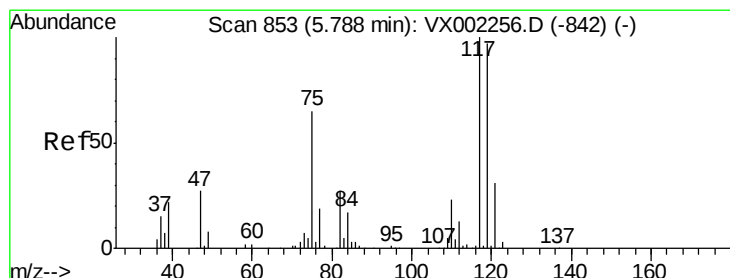
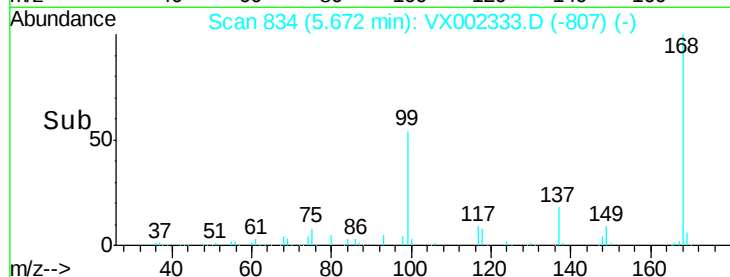
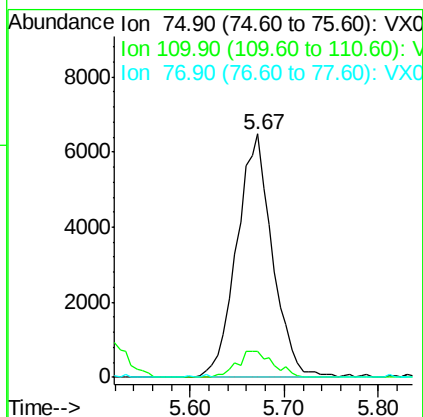
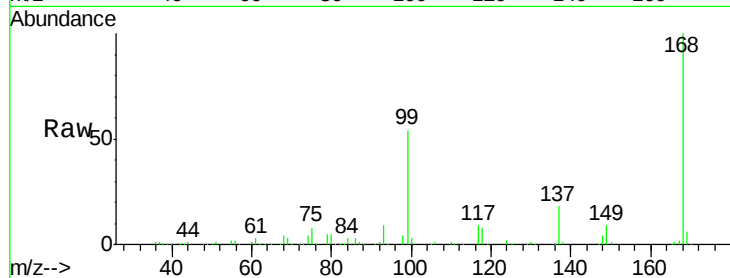




#36
 1,1-Dichloropropene
 Concen: 4.61 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002333.D
 Acq: 06 Jun 2018 04:24

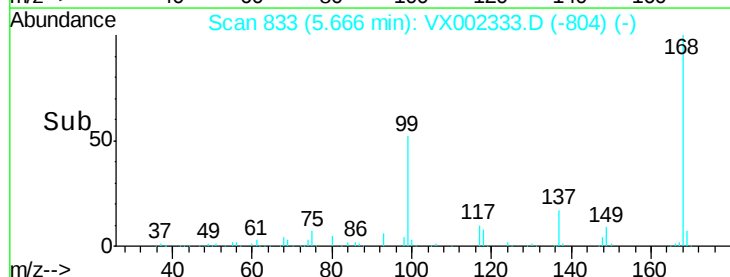
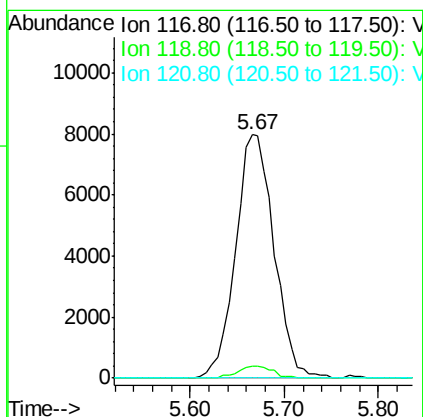
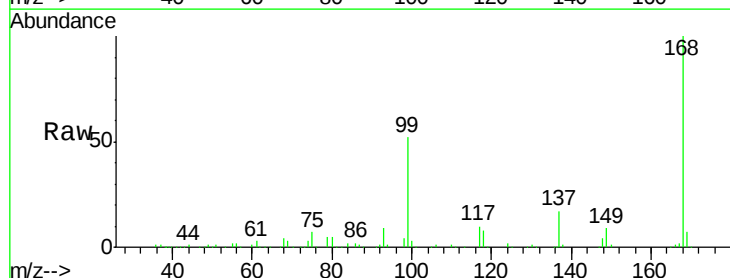
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-20

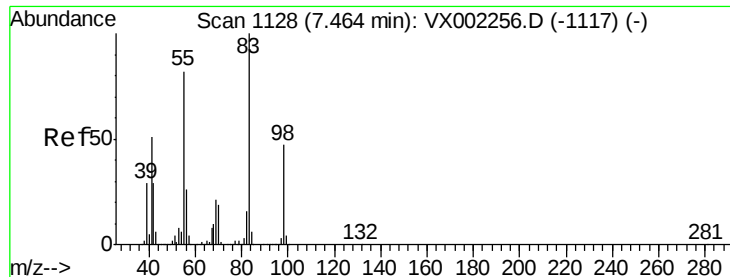
Tgt Ion: 75 Resp: 17117
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.83 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002333.D
 Acq: 06 Jun 2018 04:24

Tgt Ion: 117 Resp: 22637
 Ion Ratio Lower Upper
 117 100
 119 4.7 77.4 116.0#
 121 0.0 24.4 36.6#

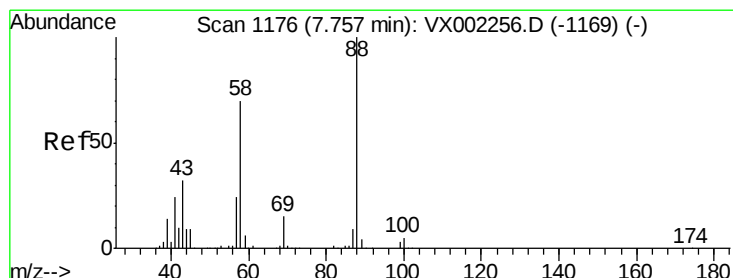
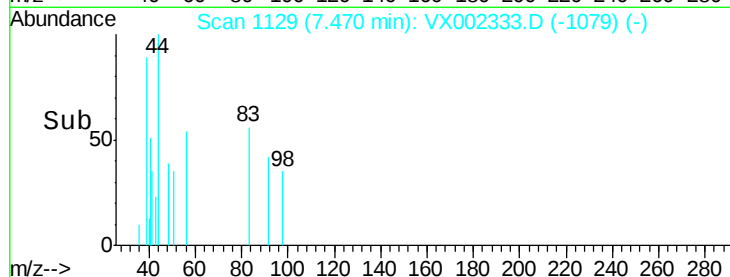
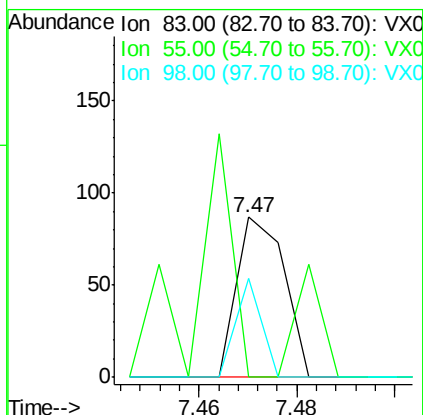
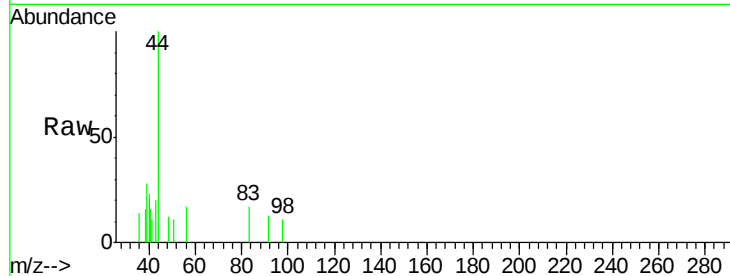




#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

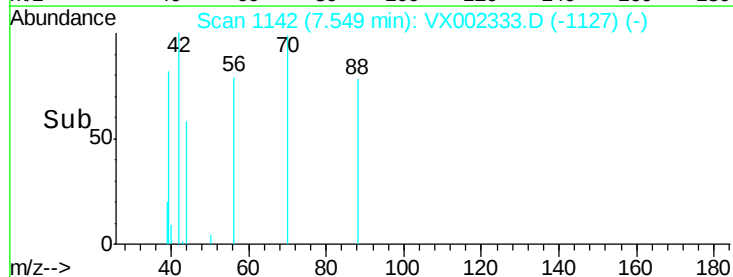
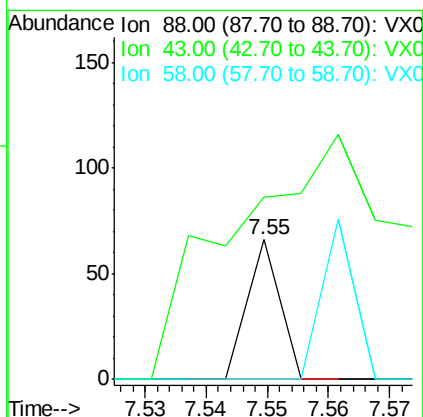
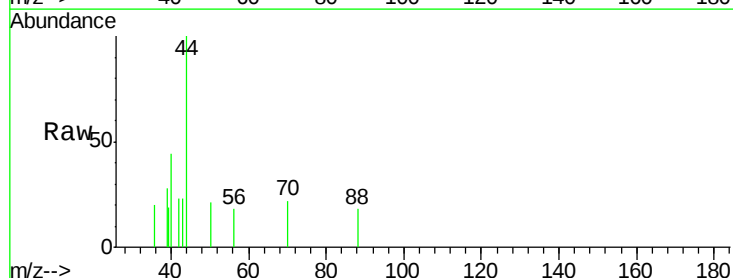
Instrument :
MSVOA_X
ClientSampleId :
MW-20

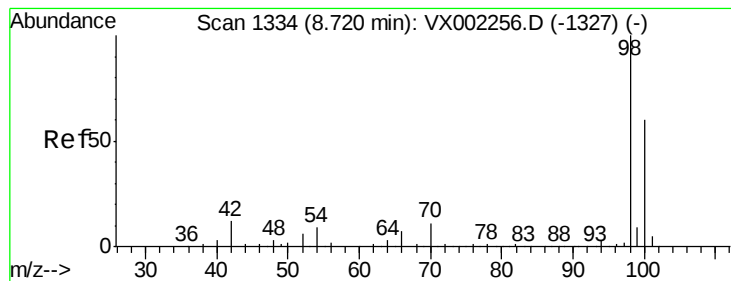
Tgt Ion: 83 Resp: 59
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 62.1 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.34 ug/l
RT: 7.55 min Scan# 1142
Delta R.T. -0.21 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 866.7 29.8 44.6#
58 116.7 57.1 85.7#





#50

Toluene-d8

Concen: 47.61 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

Instrument :

MSVOA_X

ClientSampled :

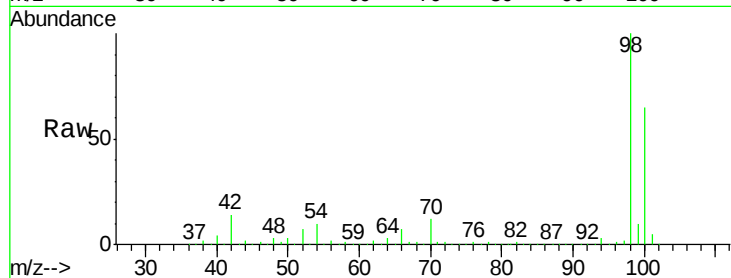
MW-20

Tgt Ion: 98 Resp: 506513

Ion Ratio Lower Upper

98 100

100 63.9 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

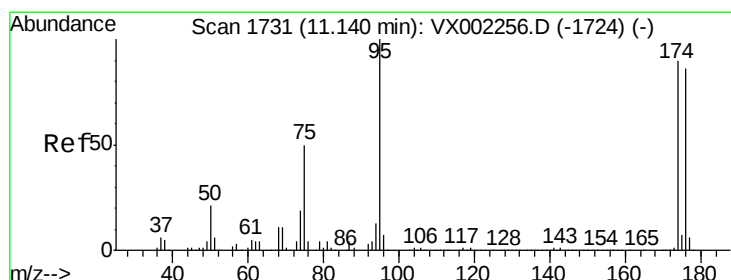
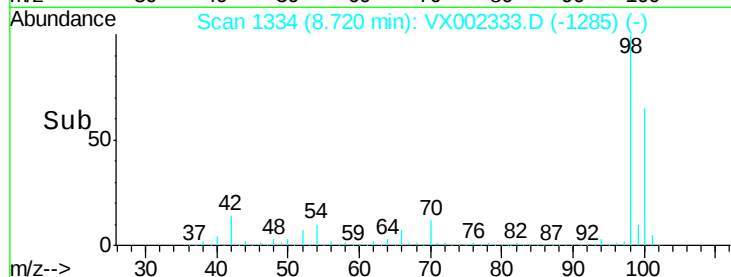
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 44.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002333.D

Acq: 06 Jun 2018 04:24

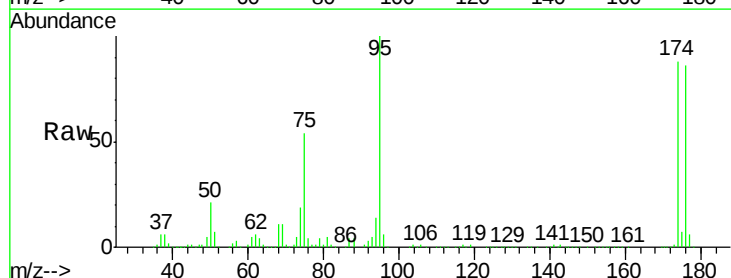
Tgt Ion: 95 Resp: 182826

Ion Ratio Lower Upper

95 100

174 92.9 0.0 187.4

176 90.7 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

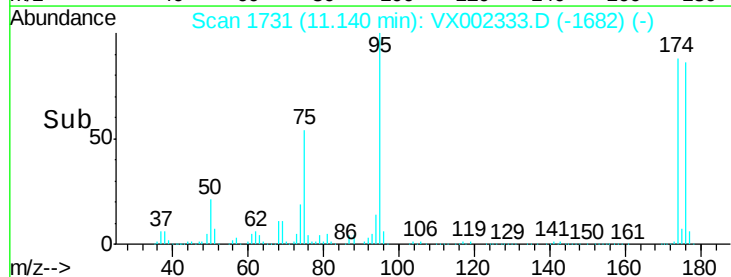
150000

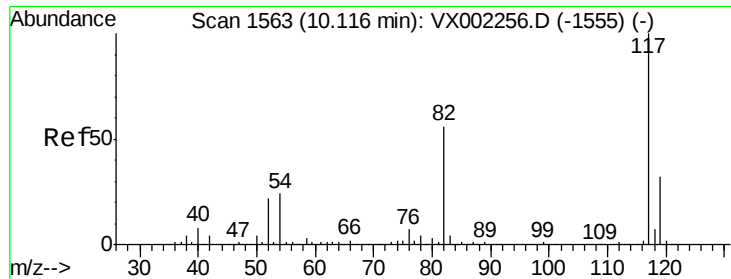
100000

50000

0

Time--> 11.10 11.20

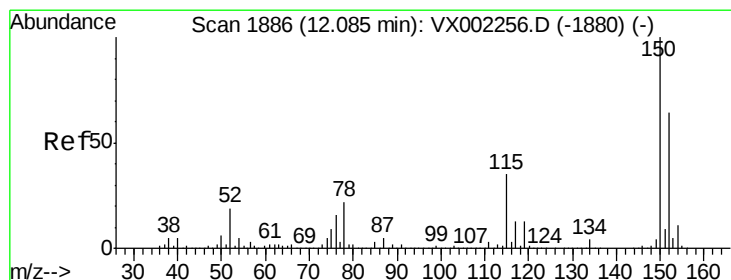
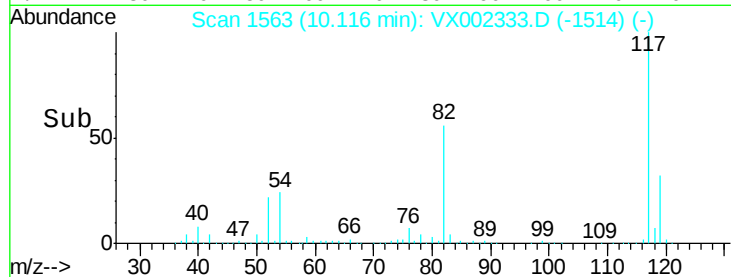
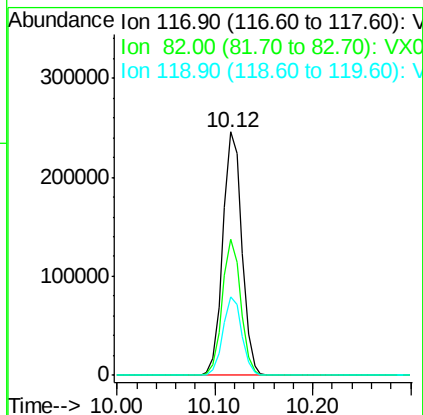
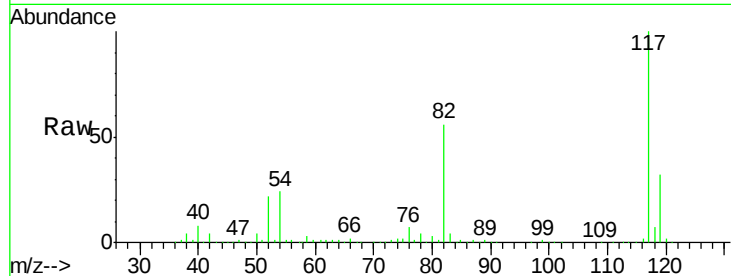




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

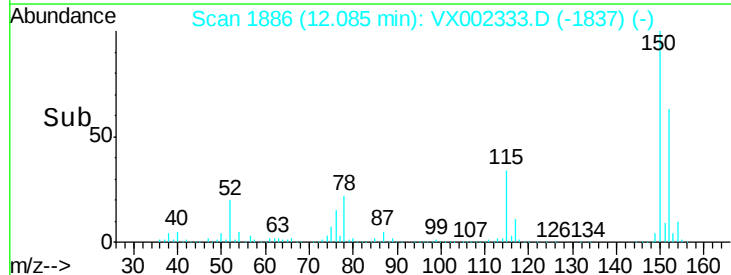
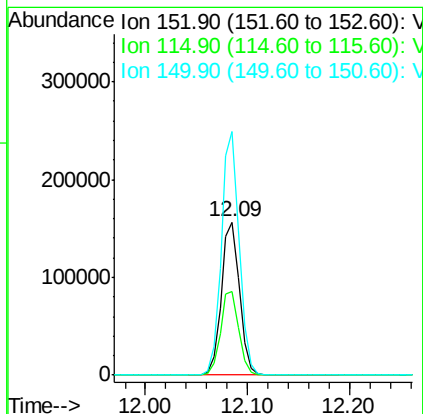
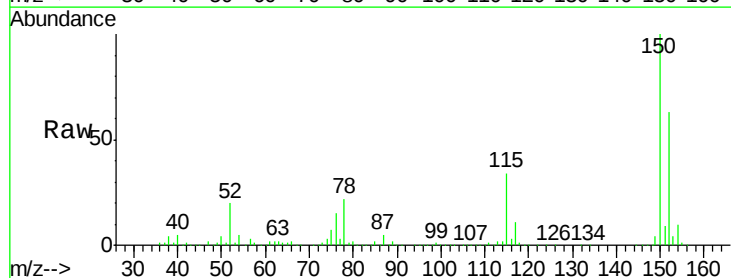
Instrument :
MSVOA_X
ClientSampled :
MW-20

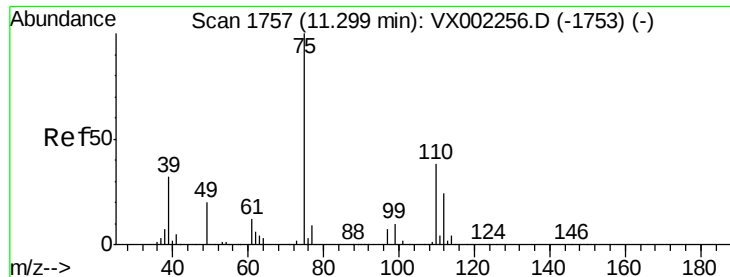
Tgt Ion:117 Resp: 332460
Ion Ratio Lower Upper
117 100
82 55.7 45.0 67.4
119 32.0 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002333.D
Acq: 06 Jun 2018 04:24

Tgt Ion:152 Resp: 194553
Ion Ratio Lower Upper
152 100
115 55.4 40.1 120.2
150 156.3 0.0 347.2

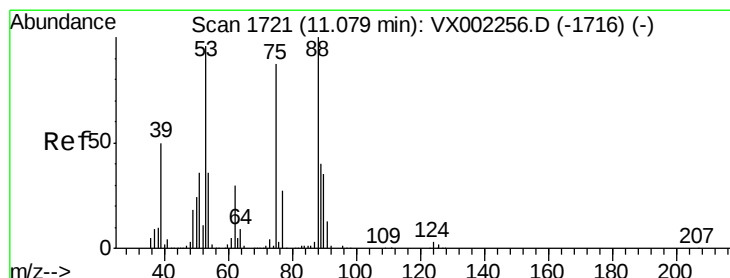
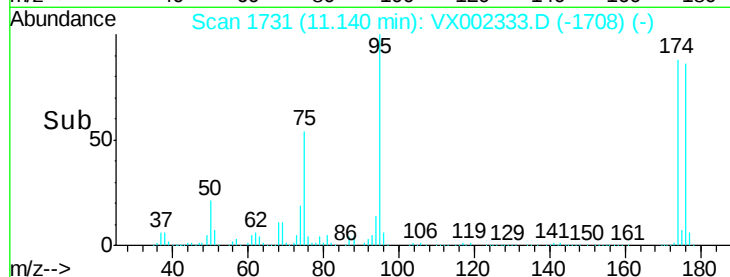
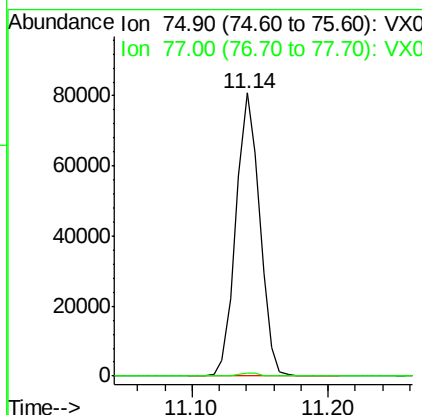
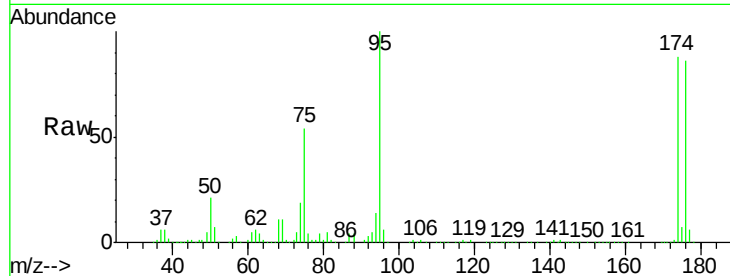




#76
 1,2,3-Trichloropropane
 Concen: 23.11 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002333.D
 Acq: 06 Jun 2018 04:24

Instrument :
 MSVOA_X
 ClientSampled :
 MW-20

Tgt Ion: 75 Resp: 98653
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.01 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002333.D
 Acq: 06 Jun 2018 04:24

Tgt Ion: 75 Resp: 98653
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

