

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101618\
 Data File : VX005356.D
 Acq On : 16 Oct 2018 08:40
 Operator : JC/MD
 Sample : VX1016WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1016WBL01

Quant Time: Oct 17 04:53:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

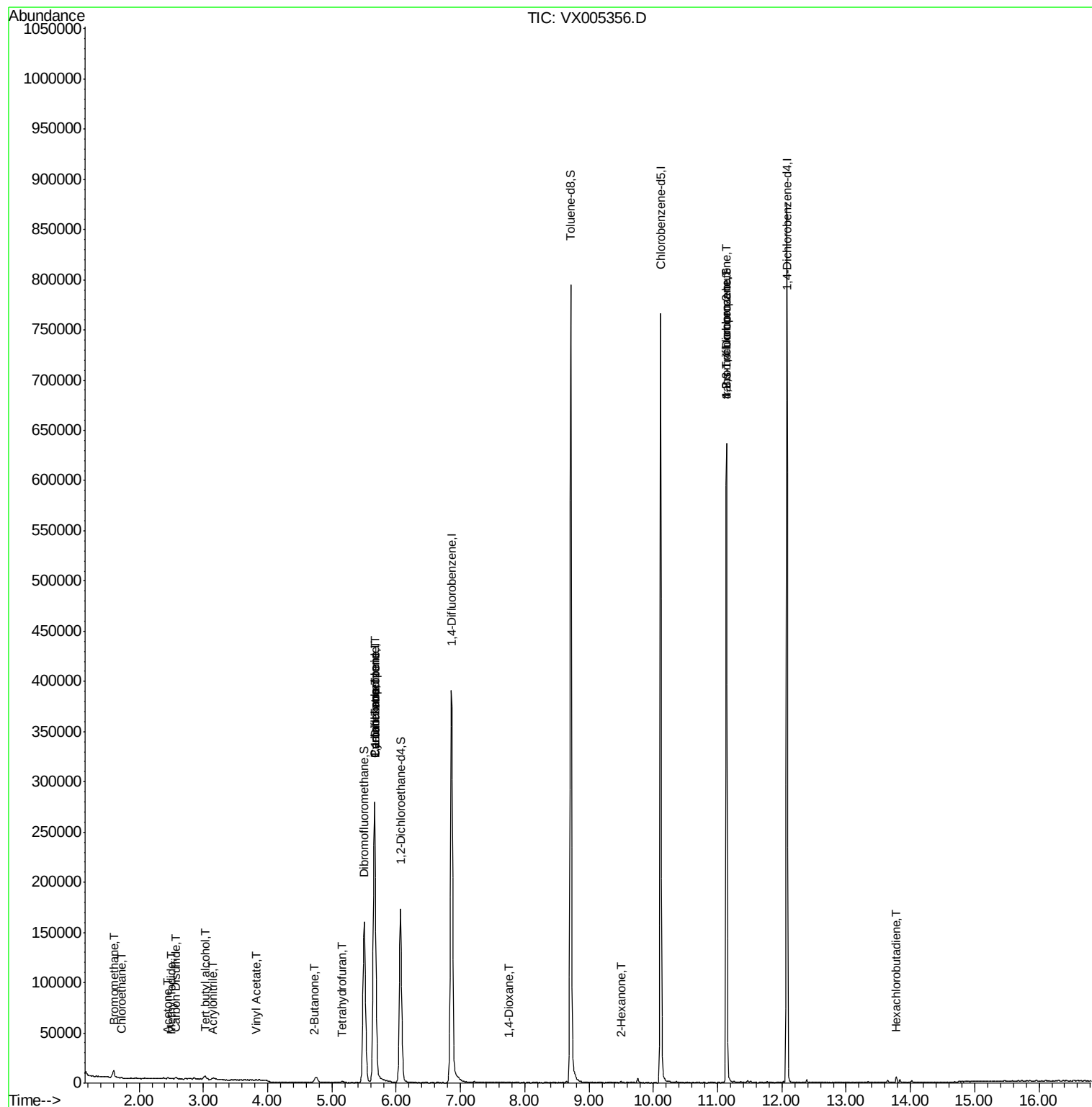
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	289553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	414319	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	371704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181371	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	166070	51.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.36%	
35) Dibromofluoromethane	5.50	113	134970	49.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.36%	
50) Toluene-d8	8.71	98	497707	52.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.66%	
62) 4-Bromofluorobenzene	11.14	95	161021	45.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.00%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.62	94	236	0.709	ug/l #	3
6) Chloroethane	1.73	64	158	0.407	ug/l #	23
10) Methyl Iodide	2.51	142	334	2.602	ug/l #	94
11) Tert butyl alcohol	3.03	59	2702	2.981	ug/l #	72
13) Acrolein	2.30	56	323	Below Cal	#	67
15) Acrylonitrile	3.14	53	959	0.467	ug/l	92
16) Acetone	2.44	43	1267	0.682	ug/l	98
17) Carbon Disulfide	2.57	76	1792	0.233	ug/l	98
20) Methylene Chloride	2.85	84	391	Below Cal		92
23) Vinyl Acetate	3.82	43	1738	0.213	ug/l #	71
25) 2-Butanone	4.71	43	856	0.315	ug/l	98
29) Tetrahydrofuran	5.16	42	1159	0.668	ug/l #	86
31) Cyclohexane	5.67	56	5330	1.207	ug/l #	11
36) 1,1-Dichloropropene	5.67	75	18813	4.688	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25326	6.281	ug/l #	17
44) Trichloroethene	7.21	130	119	Below Cal		66
49) 1,4-Dioxane	7.76	88	120	1.459	ug/l #	1
59) 2-Hexanone	9.50	43	877	0.229	ug/l	62
76) 1,2,3-Trichloropropane	11.13	75	79562	22.615	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	79562	68.716	ug/l #	10
94) Hexachlorobutadiene	13.78	225	991	0.435	ug/l	84

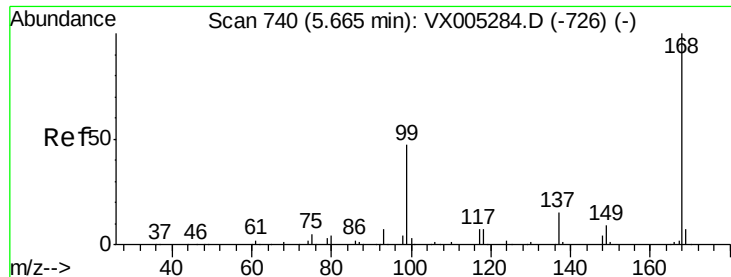
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

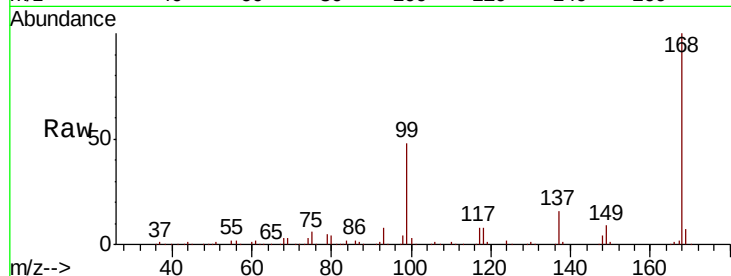
VX1016WBL01

Tgt Ion: 168 Resp: 289553

Ion Ratio Lower Upper

168 100

99 48.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX005284.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX005284.D (-726) (-)

5.67

120000

100000

80000

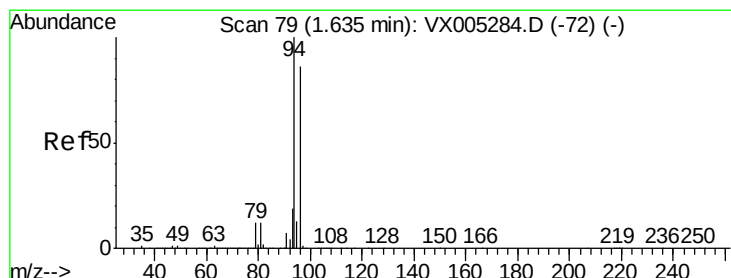
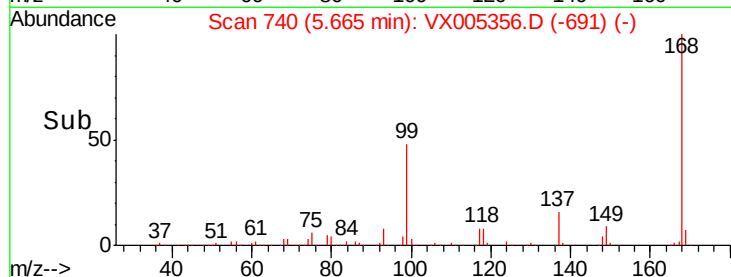
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.709 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.02 min

Lab File: VX005356.D

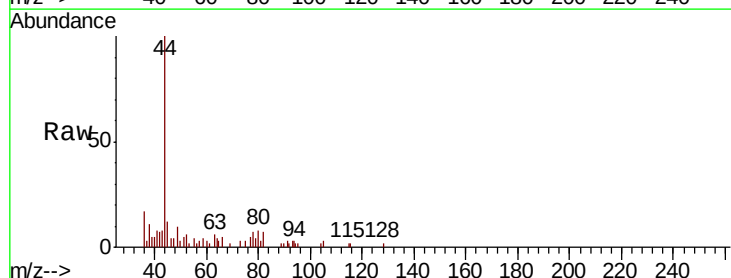
Acq: 16 Oct 2018 08:40

Tgt Ion: 94 Resp: 236

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX005284.D (-72) (-)

Ion 95.90 (95.60 to 96.60): VX005284.D (-72) (-)

300

250

200

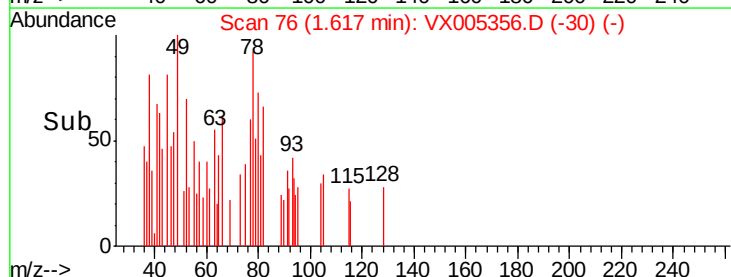
150

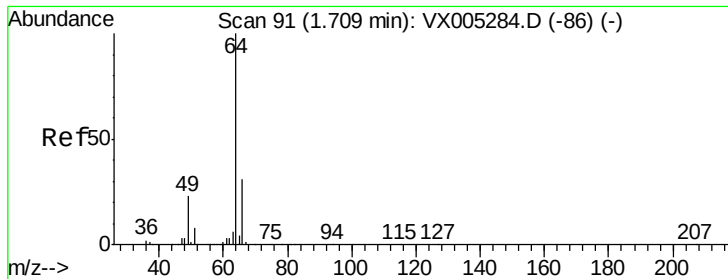
100

50

0

Time--> 1.58 1.60 1.62 1.64





#6

Chloroethane

Concen: 0.407 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampled :

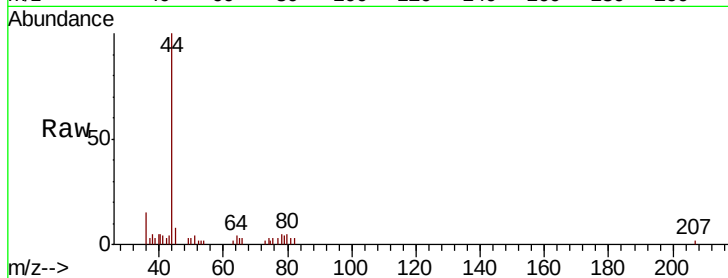
VX1016WBL01

Tgt Ion: 64 Resp: 158

Ion Ratio Lower Upper

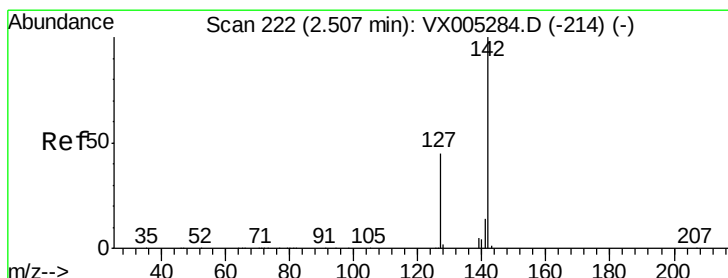
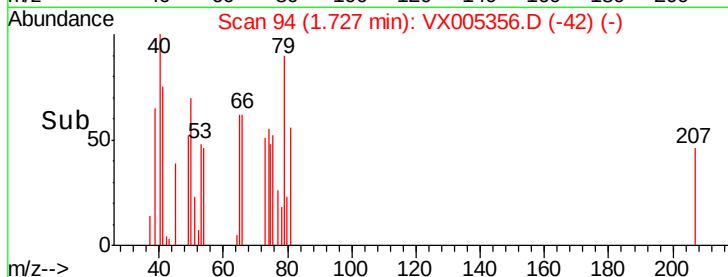
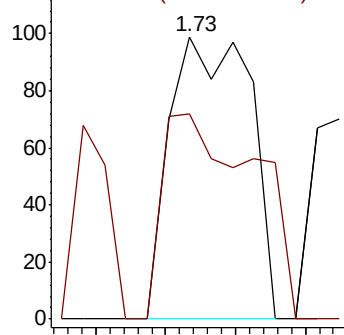
64 100

66 72.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.602 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

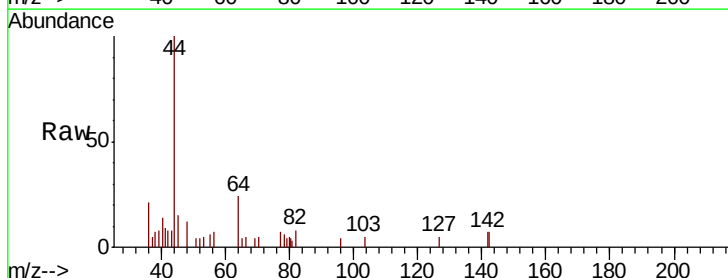
Tgt Ion: 142 Resp: 334

Ion Ratio Lower Upper

142 100

127 42.8 33.8 50.6

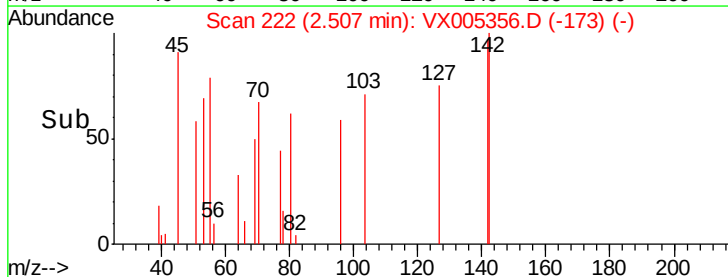
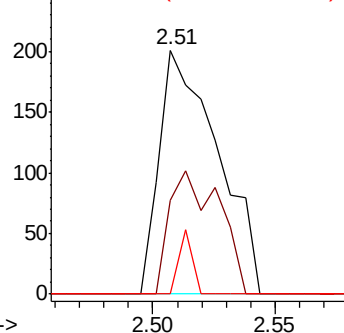
141 5.7 11.4 17.0#

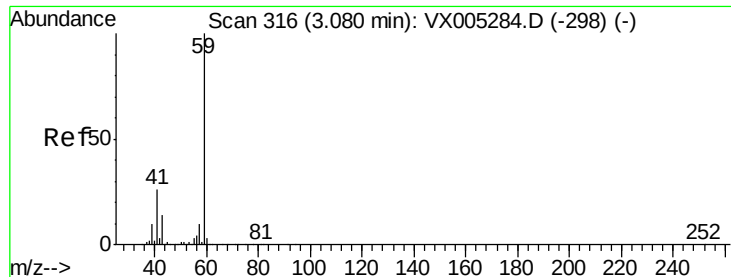


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

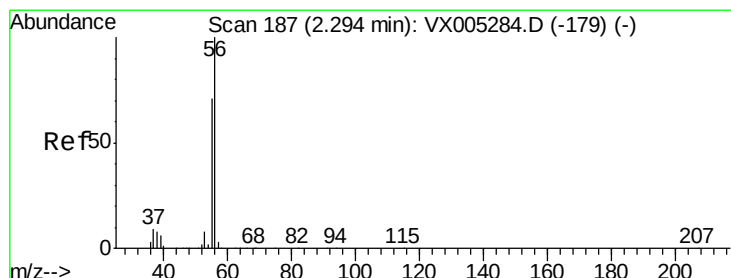
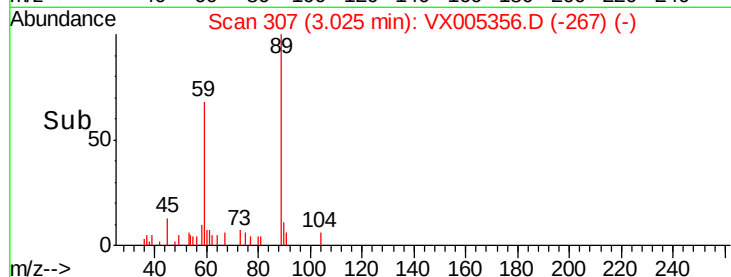
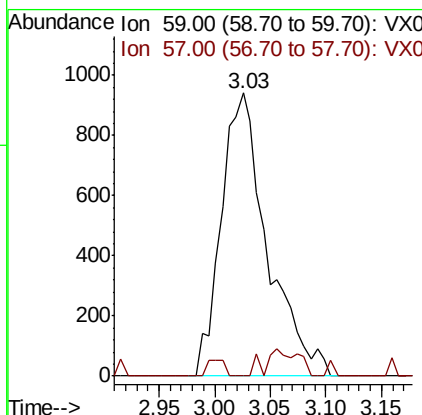
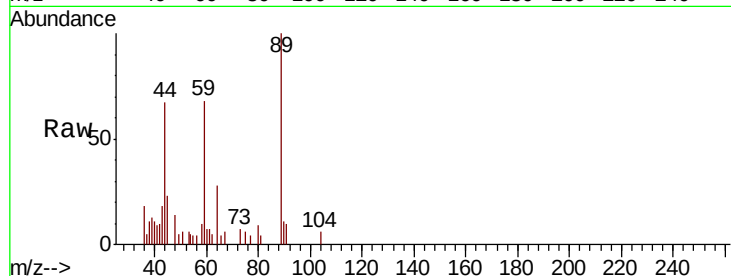




#11
Tert butyl alcohol
Concen: 2.981 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

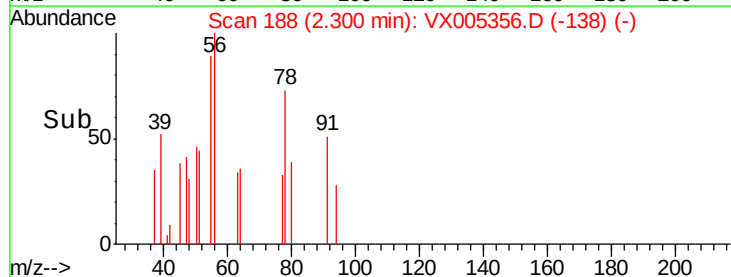
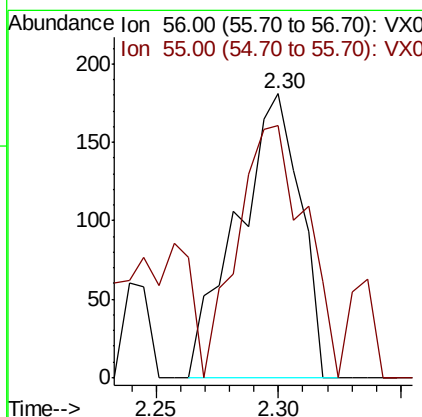
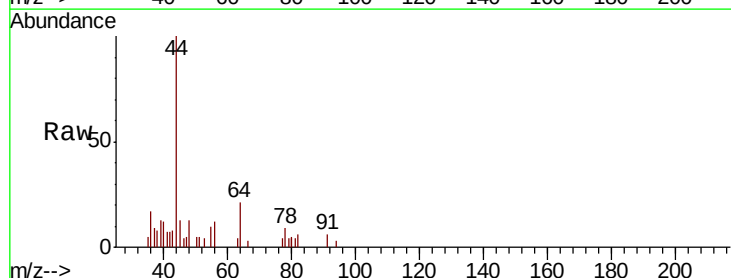
Instrument :
MSVOA_X
ClientSampled :
VX1016WBL01

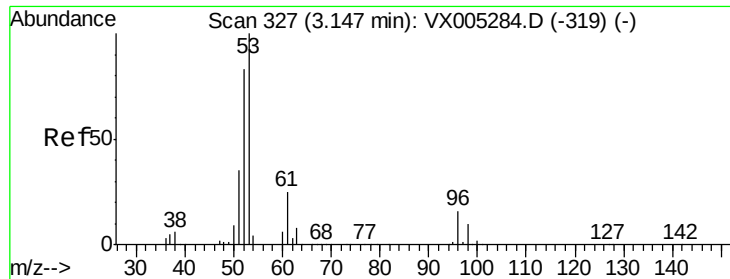
Tgt Ion: 59 Resp: 2702
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

Tgt Ion: 56 Resp: 323
Ion Ratio Lower Upper
56 100
55 95.4 54.7 82.1#





#15

Acrylonitrile

Concen: 0.467 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

VX1016WBL01

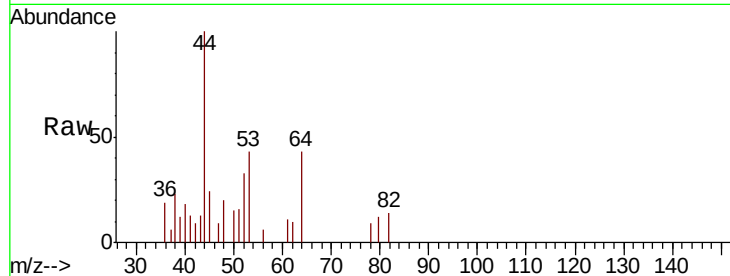
Tgt Ion: 53 Resp: 959

Ion Ratio Lower Upper

53 100

52 88.0 65.2 97.8

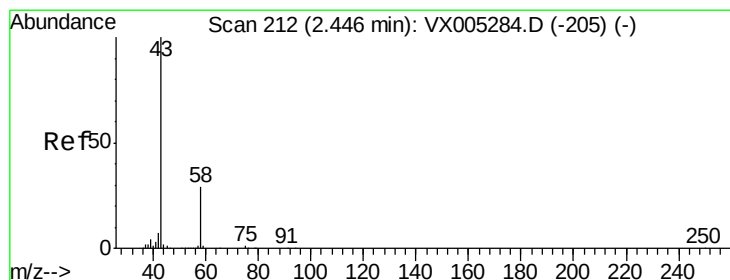
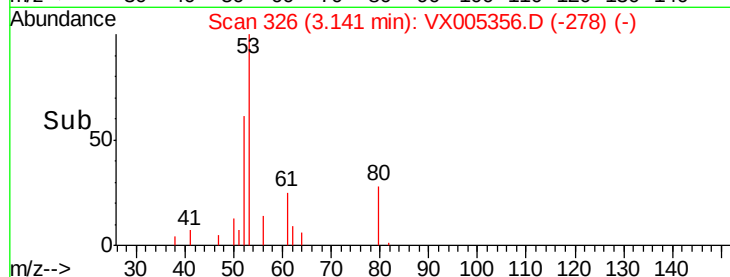
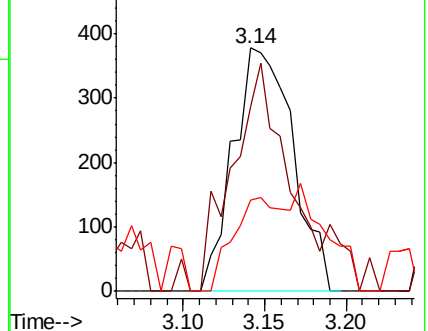
51 30.2 28.2 42.2



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: 0.682 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005356.D

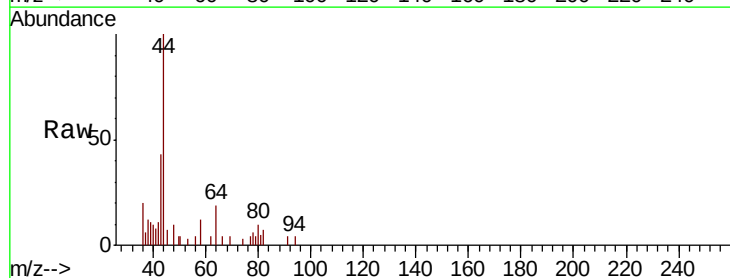
Acq: 16 Oct 2018 08:40

Tgt Ion: 43 Resp: 1267

Ion Ratio Lower Upper

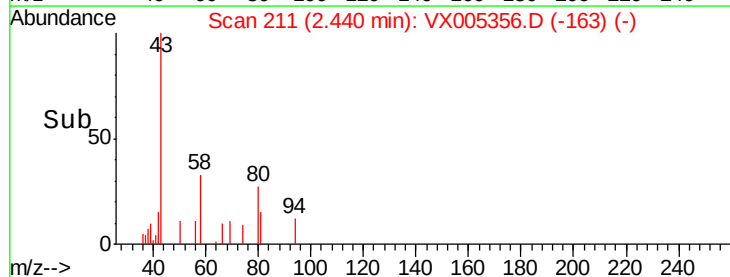
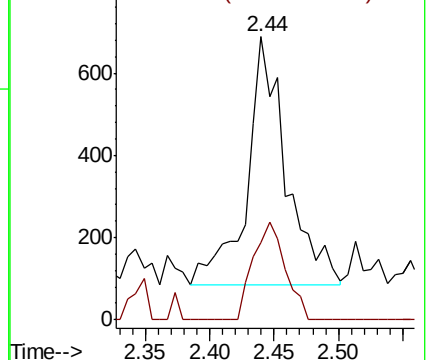
43 100

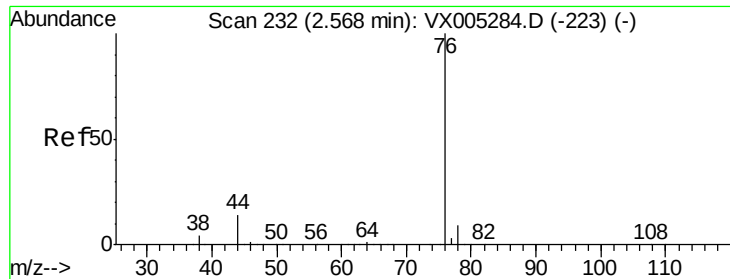
58 31.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.233 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

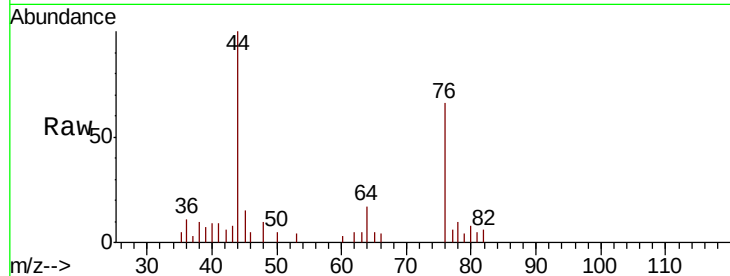
VX1016WBL01

Tgt Ion: 76 Resp: 1792

Ion Ratio Lower Upper

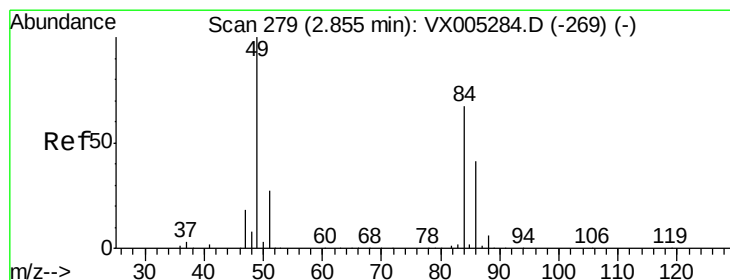
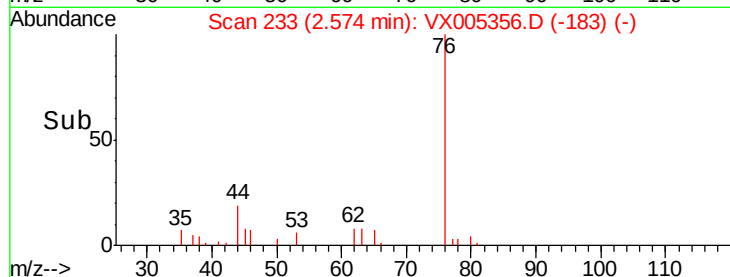
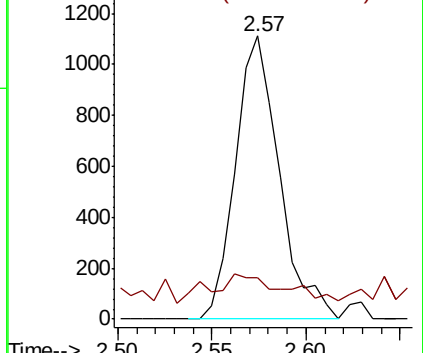
76 100

78 8.0 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Tgt Ion: 84 Resp: 391

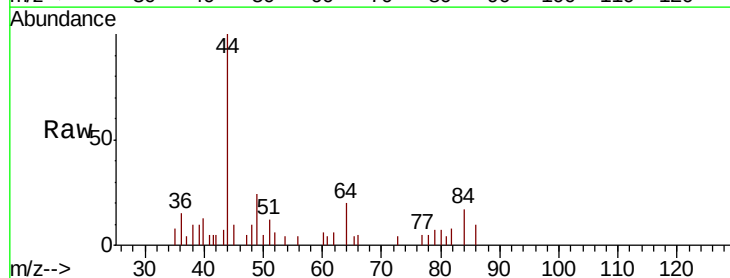
Ion Ratio Lower Upper

84 100

49 115.8 101.2 151.8

51 41.3 29.5 44.3

86 59.9 52.3 78.5

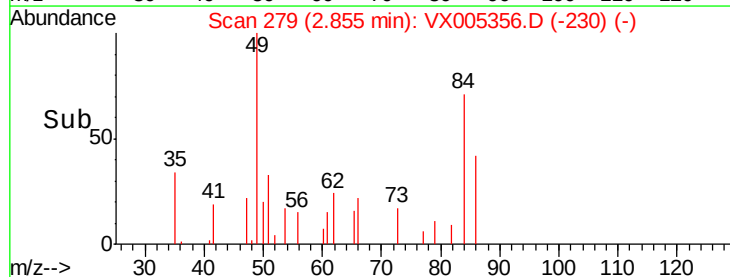
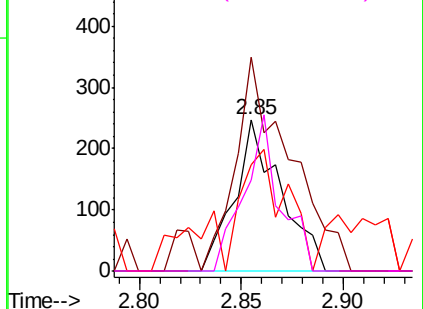


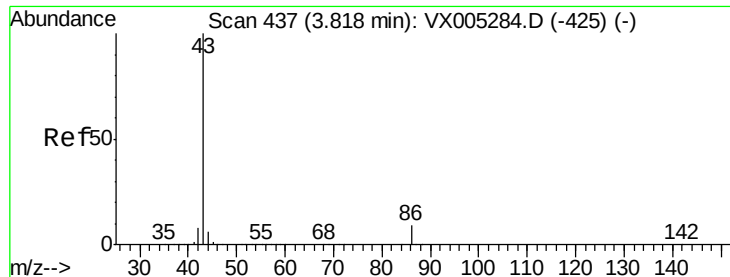
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#23

Vinyl Acetate

Concen: 0.213 ug/l

RT: 3.82 min Scan# 437

Delta R.T. -0.00 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

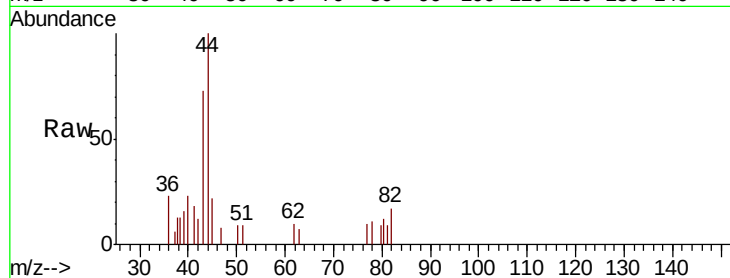
VX1016WBL01

Tgt Ion: 43 Resp: 1738

Ion Ratio Lower Upper

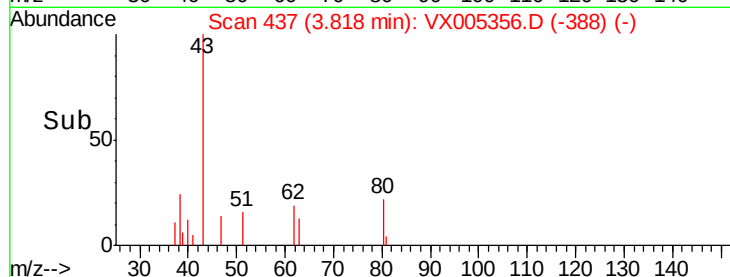
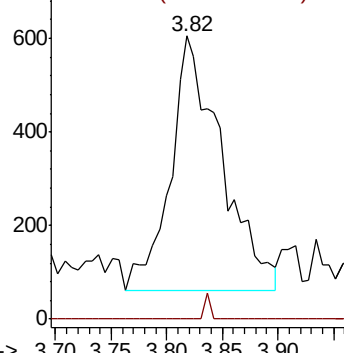
43 100

86 0.0 8.9 13.3#

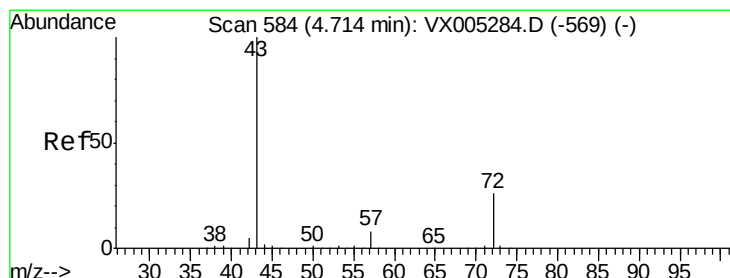


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



Time-->



#25

2-Butanone

Concen: 0.315 ug/l

RT: 4.71 min Scan# 584

Delta R.T. -0.00 min

Lab File: VX005356.D

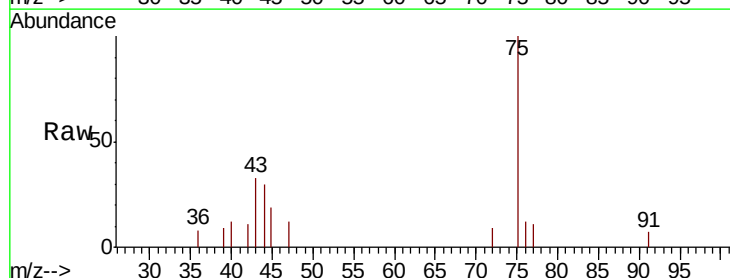
Acq: 16 Oct 2018 08:40

Tgt Ion: 43 Resp: 856

Ion Ratio Lower Upper

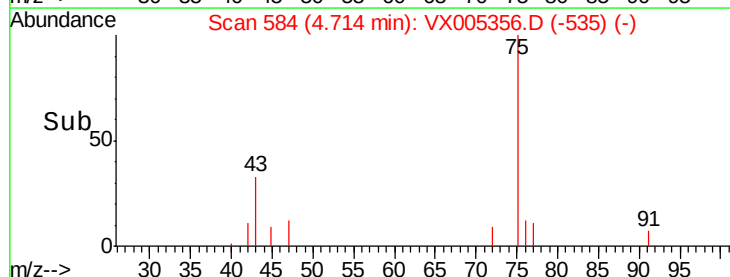
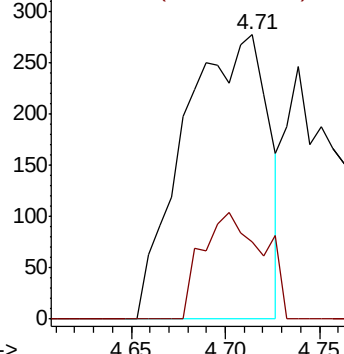
43 100

72 26.7 22.0 33.0

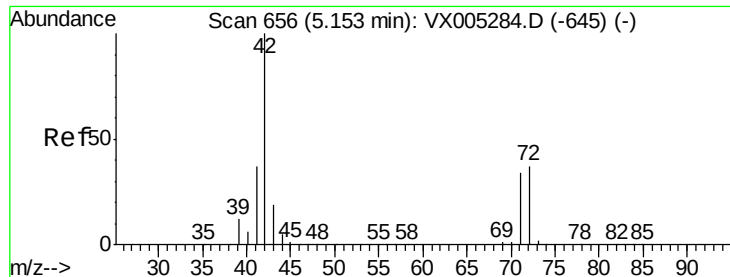


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.668 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

VX1016WBL01

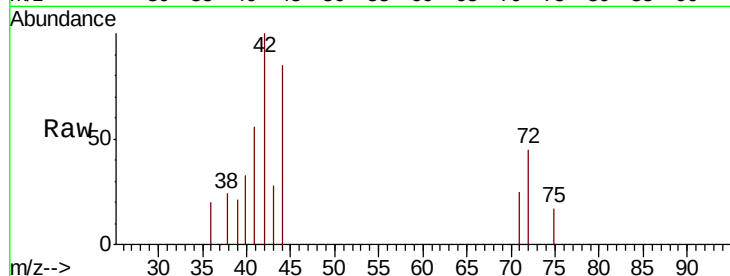
Tgt Ion: 42 Resp: 1159

Ion Ratio Lower Upper

42 100

72 44.5 37.4 56.0

71 27.0 34.5 51.7#



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

5.16

5.16

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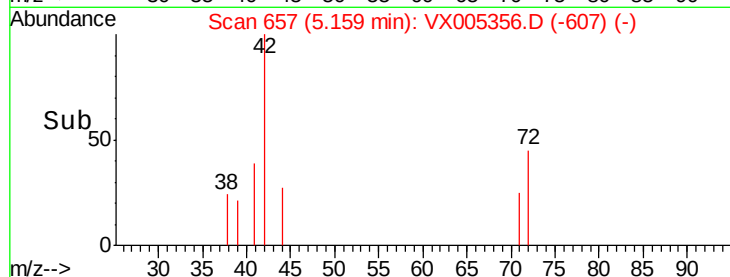
5.16

5.16

5.16

5.16

5.16



#31

Cyclohexane

Concen: 1.207 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

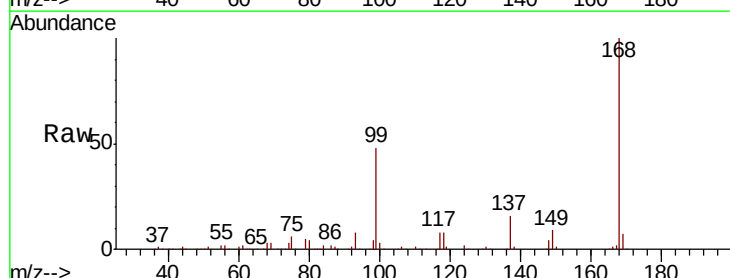
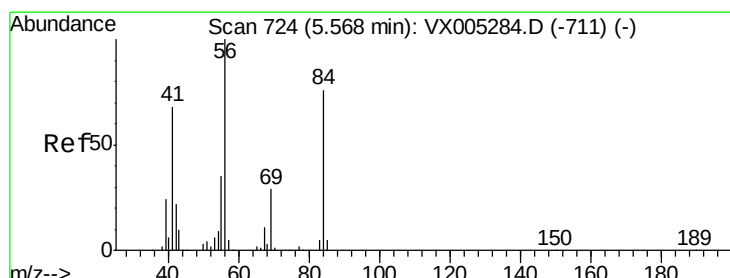
Tgt Ion: 56 Resp: 5330

Ion Ratio Lower Upper

56 100

69 168.4 25.4 38.2#

84 120.7 71.4 107.2#



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

5.67

5.67

5.67

5.67

5.67

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5.67

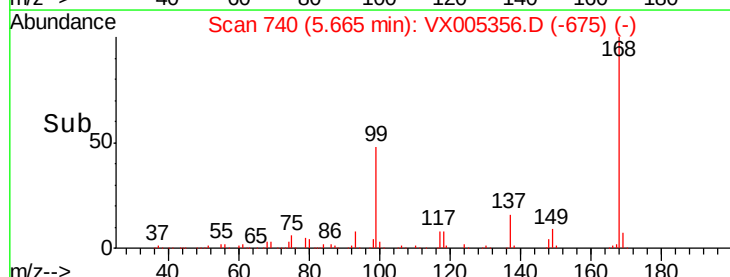
5.67

5.67

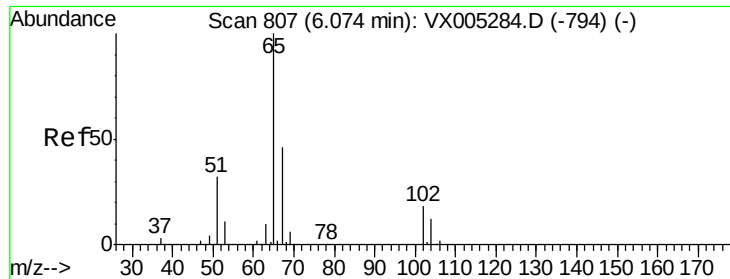
5.67

5.67

5.67



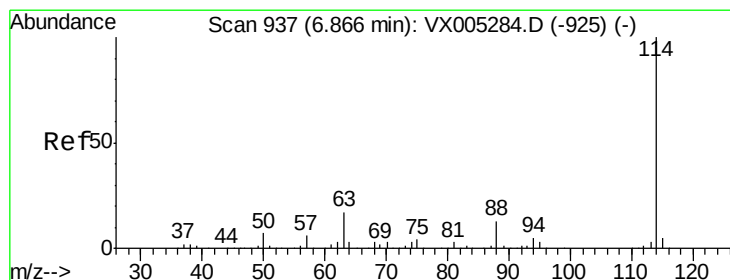
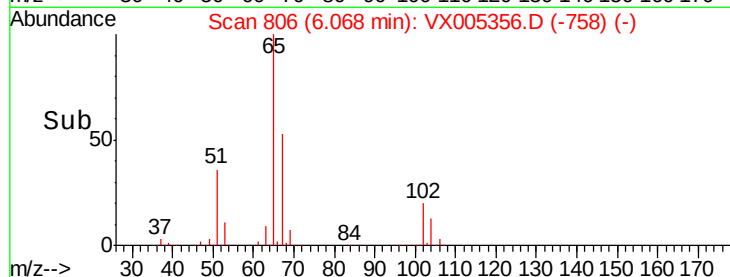
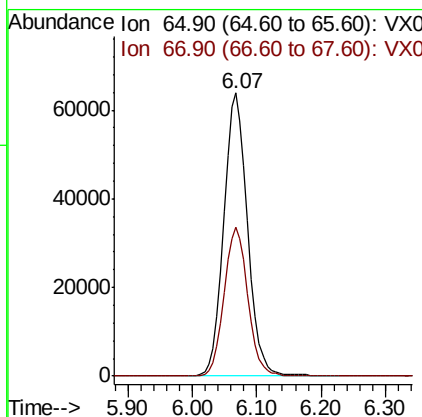
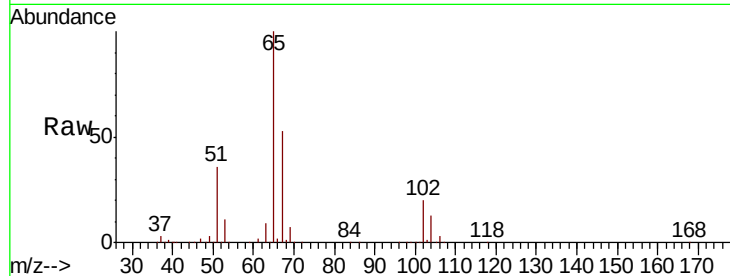
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 51.677 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005356.D
 Acq: 16 Oct 2018 08:40

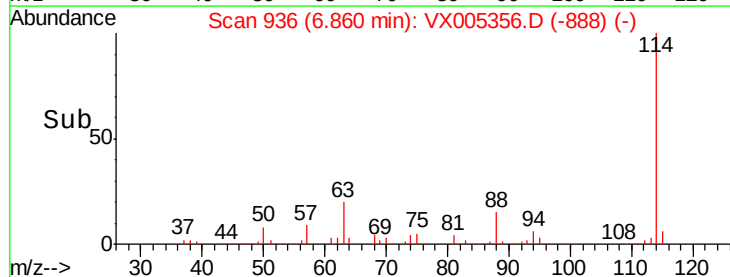
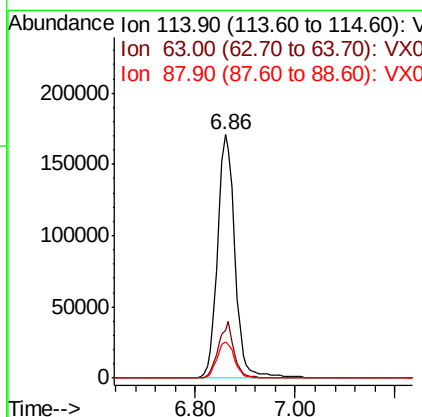
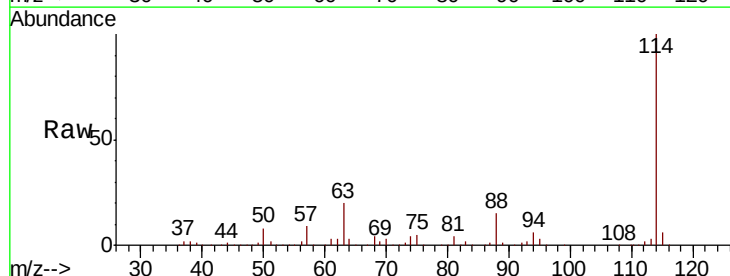
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1016WBL01

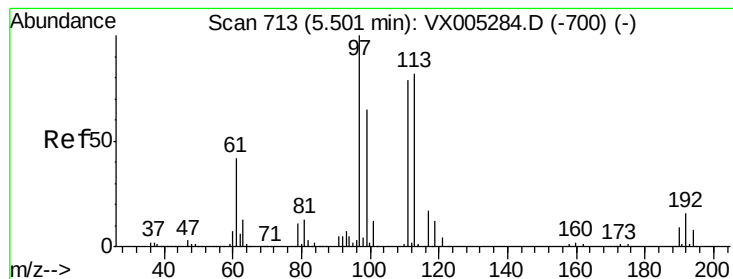
Tgt Ion: 65 Resp: 166070
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005356.D
 Acq: 16 Oct 2018 08:40

Tgt Ion: 114 Resp: 414319
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.185 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

VX1016WBL01

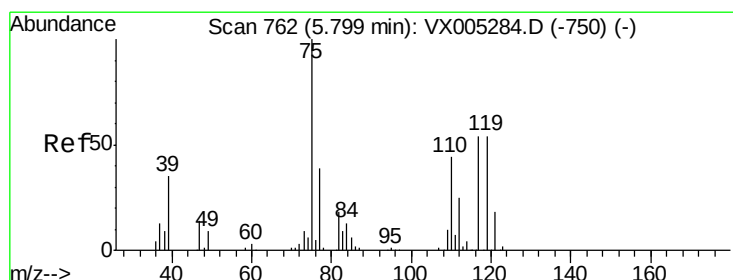
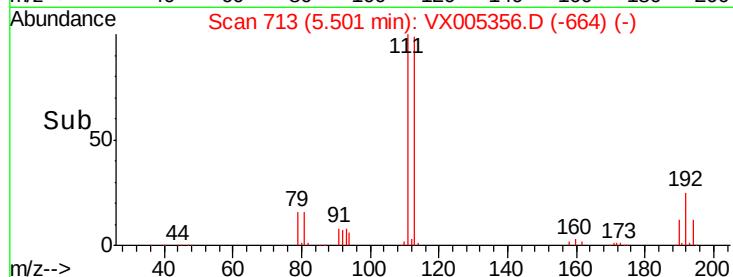
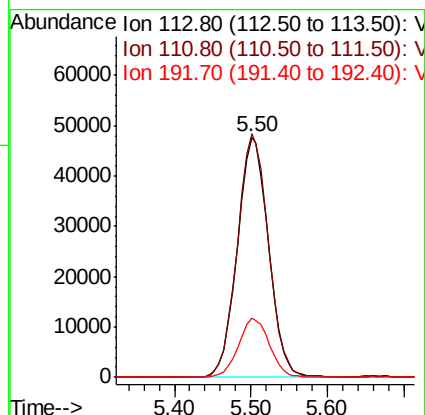
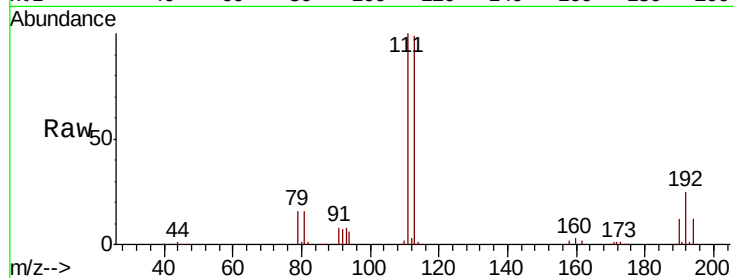
Tgt Ion:113 Resp: 134970

Ion Ratio Lower Upper

113 100

111 101.2 82.4 123.6

192 24.6 19.4 29.2



#36

1,1-Dichloropropene

Concen: 4.688 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

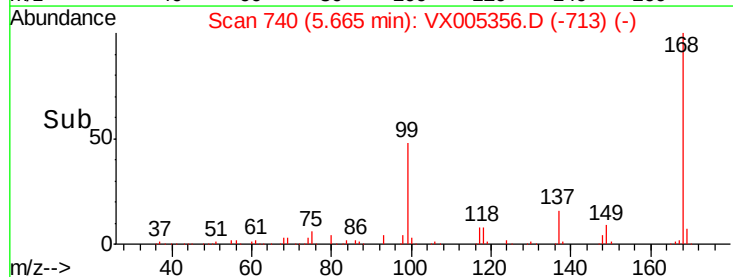
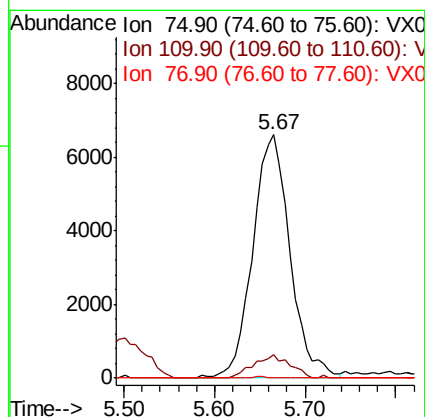
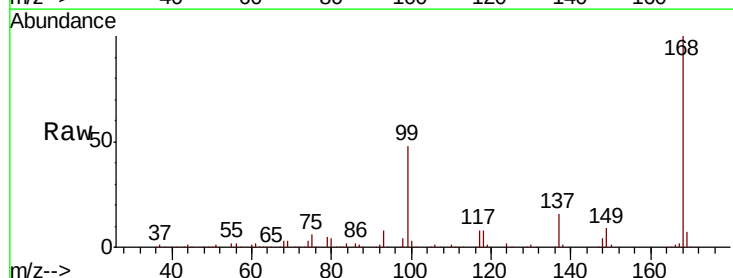
Tgt Ion: 75 Resp: 18813

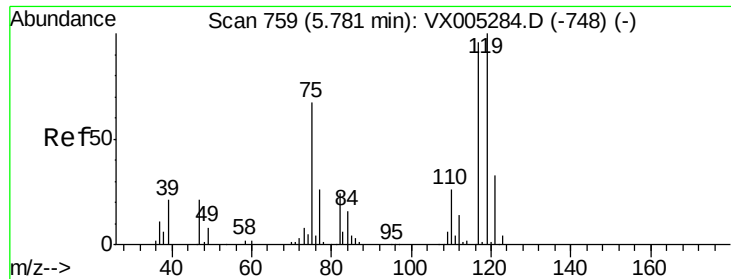
Ion Ratio Lower Upper

75 100

110 9.3 18.0 54.0#

77 0.2 24.6 36.8#

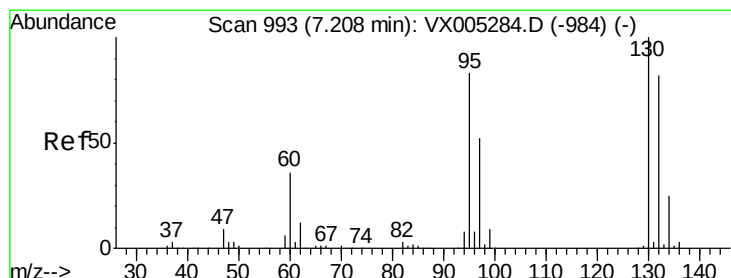
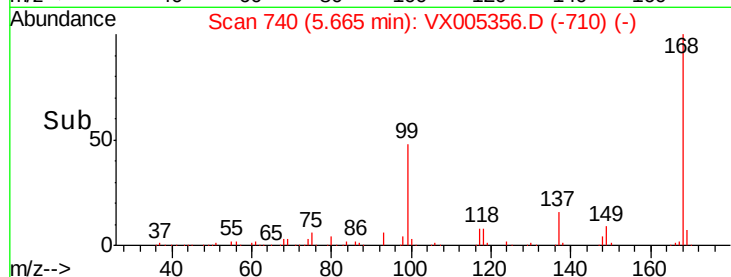
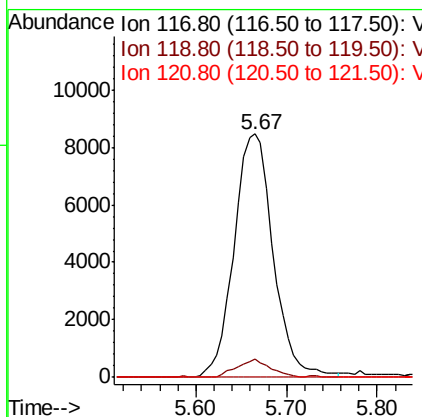
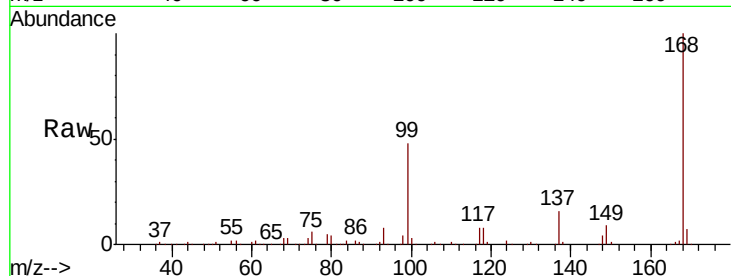




#38
Carbon Tetrachloride
Concen: 6.281 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

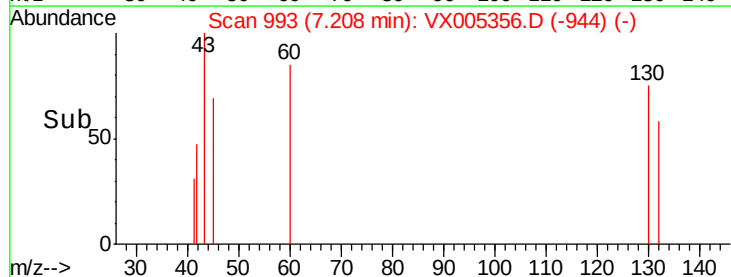
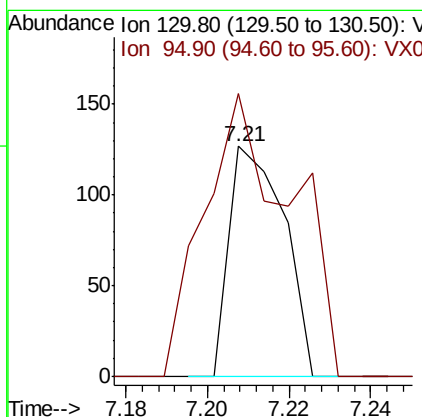
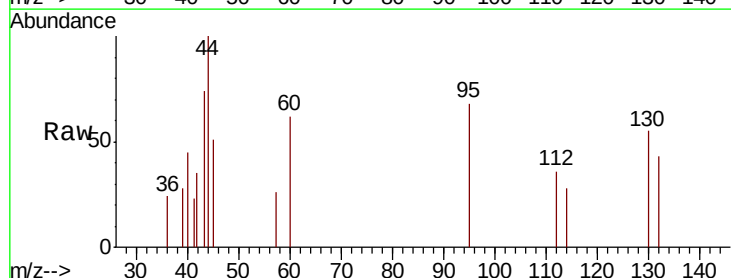
Instrument :
MSVOA_X
ClientSampleId :
VX1016WBL01

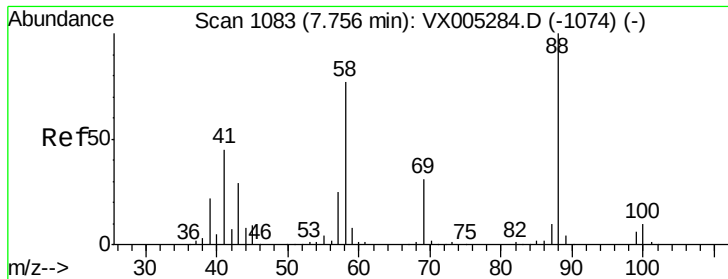
Tgt Ion:117 Resp: 25326
Ion Ratio Lower Upper
117 100
119 7.4 78.8 118.2#
121 0.0 24.9 37.3#



#44
Trichloroethene
Concen: Below Cal
RT: 7.21 min Scan# 993
Delta R.T. 0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

Tgt Ion:130 Resp: 119
Ion Ratio Lower Upper
130 100
95 122.8 0.0 181.6

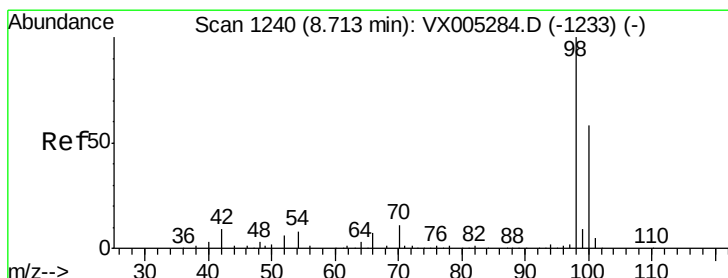
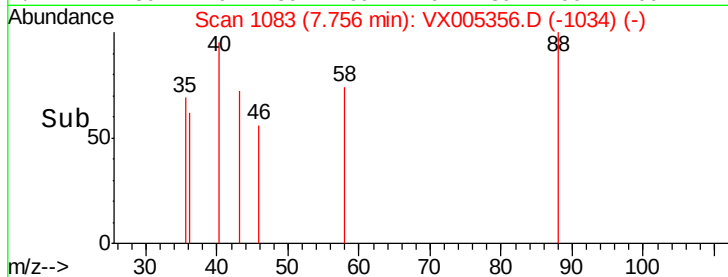
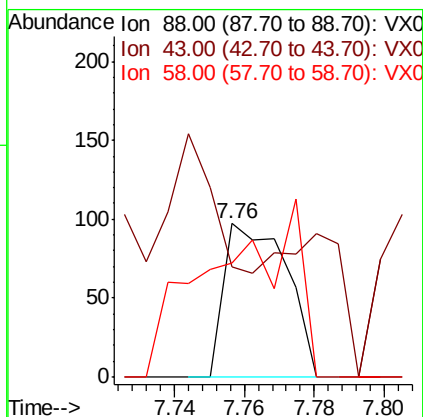
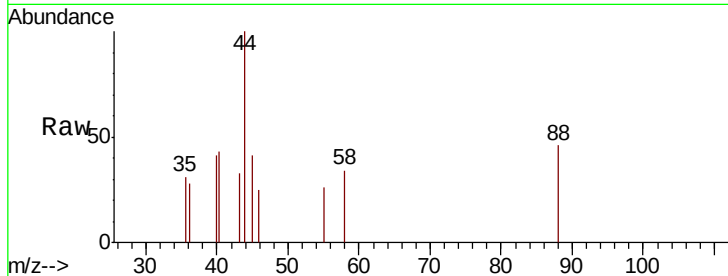




#49
1,4-Dioxane
Concen: 1.459 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. -0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

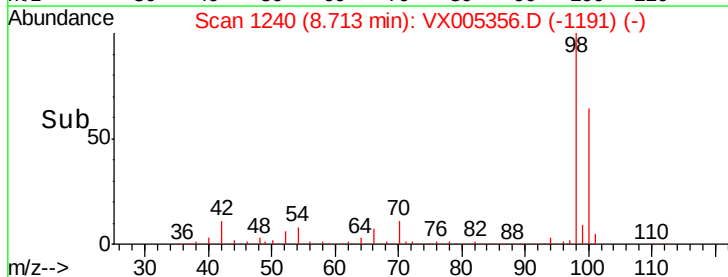
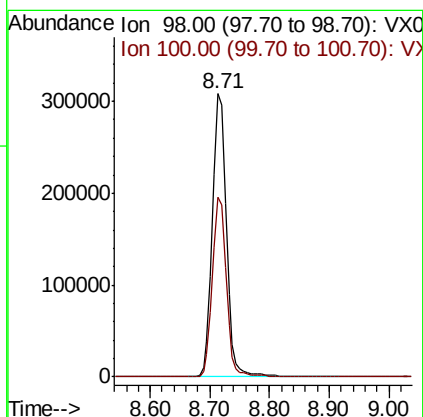
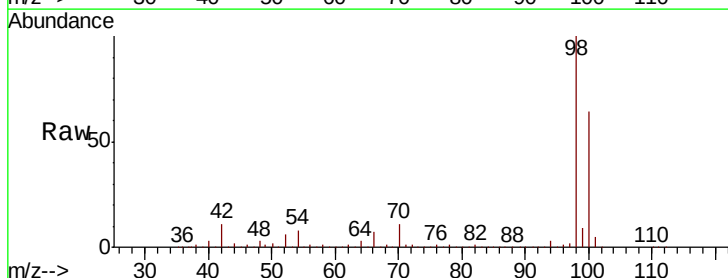
Instrument :
MSVOA_X
ClientSampleId :
VX1016WBL01

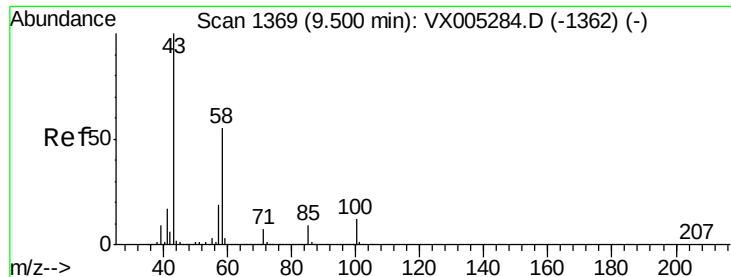
Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 131.7 24.7 37.1#
58 0.0 55.3 82.9#



#50
Toluene-d8
Concen: 52.831 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

Tgt Ion: 98 Resp: 497707
Ion Ratio Lower Upper
98 100
100 63.5 52.9 79.3

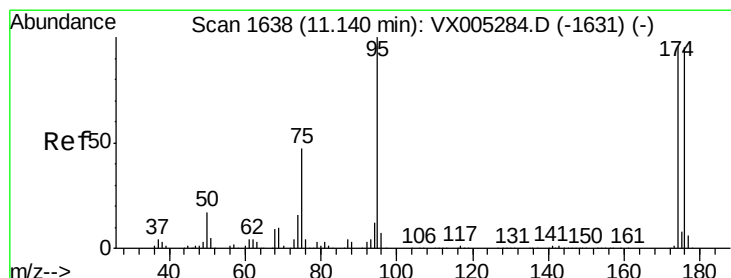
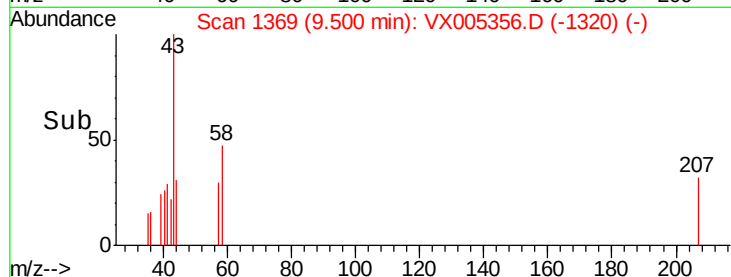
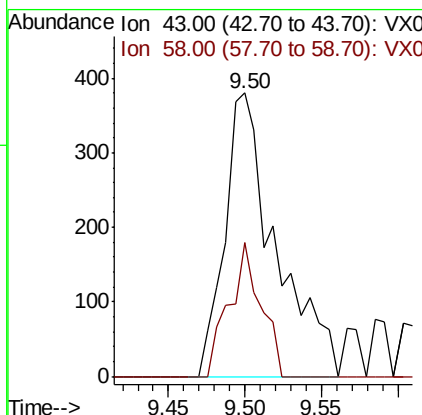
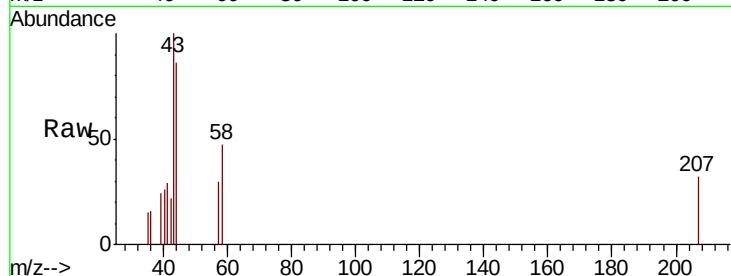




#59
2-Hexanone
Concen: 0.229 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

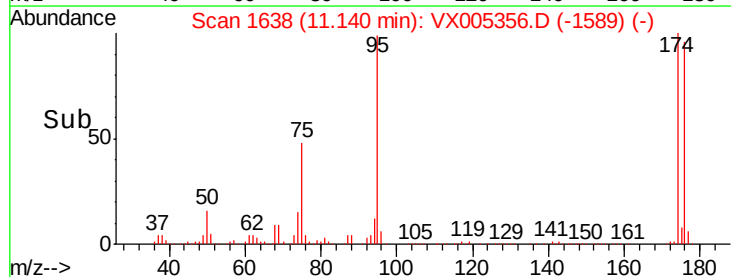
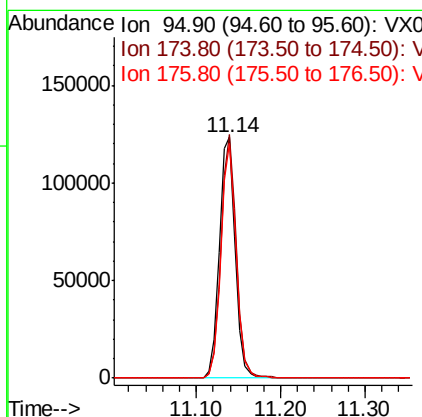
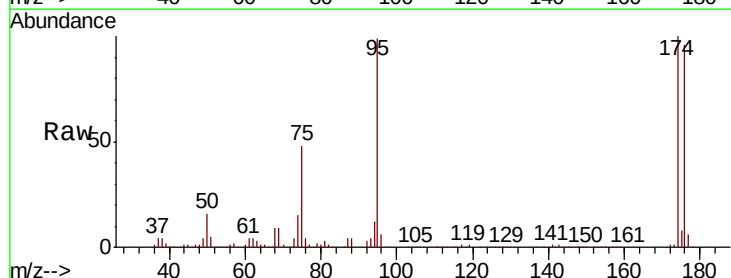
Instrument :
MSVOA_X
ClientSampleId :
VX1016WBL01

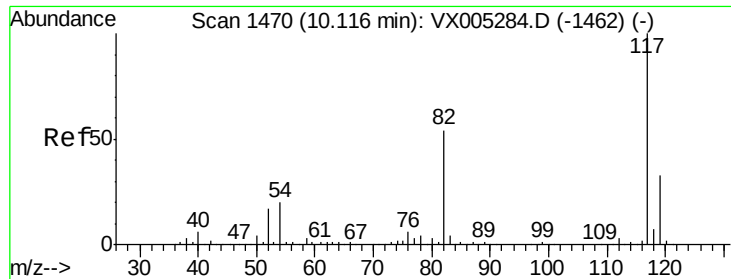
Tgt Ion: 43 Resp: 877
Ion Ratio Lower Upper
43 100
58 29.5 29.0 87.0



#62
4-Bromofluorobenzene
Concen: 45.498 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

Tgt Ion: 95 Resp: 161021
Ion Ratio Lower Upper
95 100
174 97.7 0.0 185.2
176 93.3 0.0 178.6

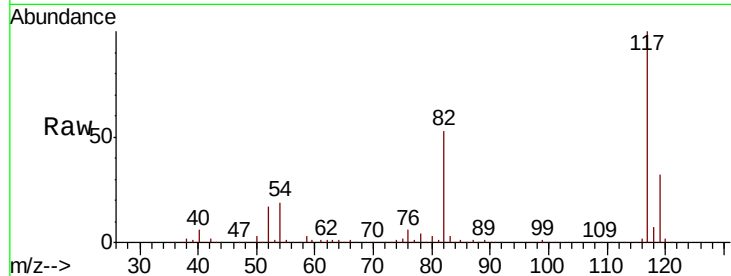




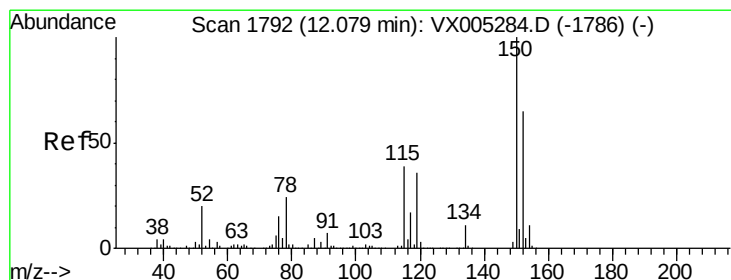
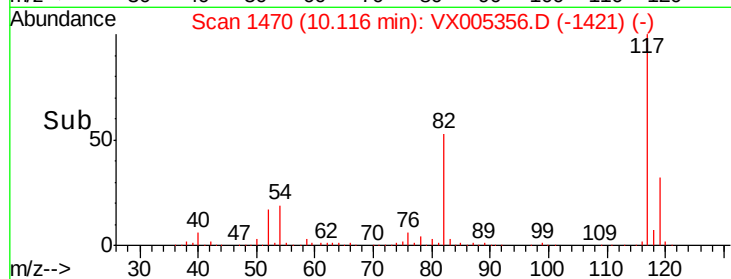
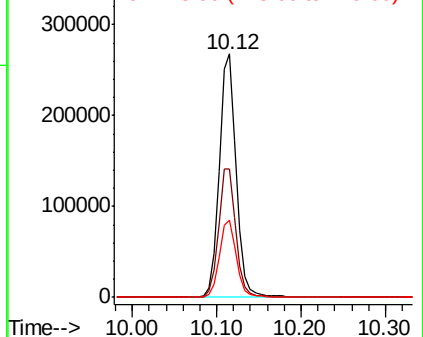
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

Instrument :
MSVOA_X
ClientSampleId :
VX1016WBL01

Tgt Ion:117 Resp: 371704
Ion Ratio Lower Upper
117 100
82 52.8 47.8 71.6
119 31.9 29.3 43.9

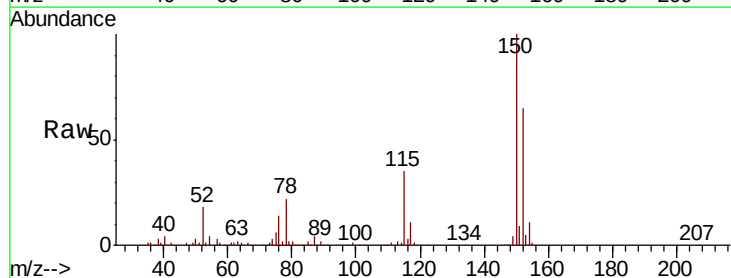


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

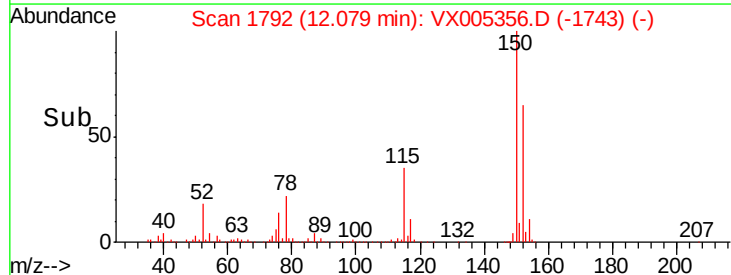
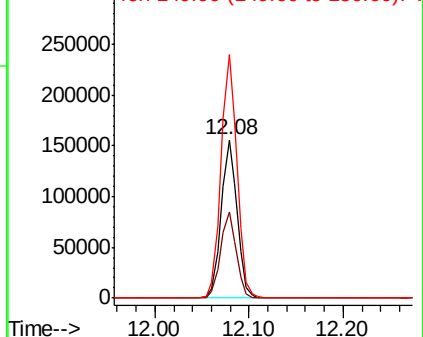


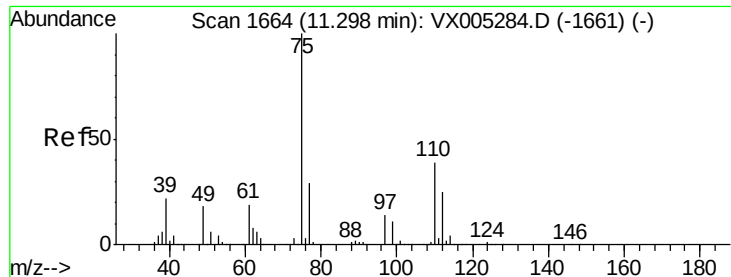
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005356.D
Acq: 16 Oct 2018 08:40

Tgt Ion:152 Resp: 181371
Ion Ratio Lower Upper
152 100
115 54.4 39.0 117.0
150 156.0 0.0 351.0



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: 22.615 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

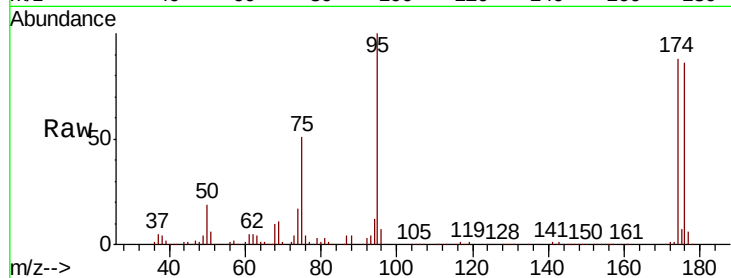
VX1016WBL01

Tgt Ion: 75 Resp: 79562

Ion Ratio Lower Upper

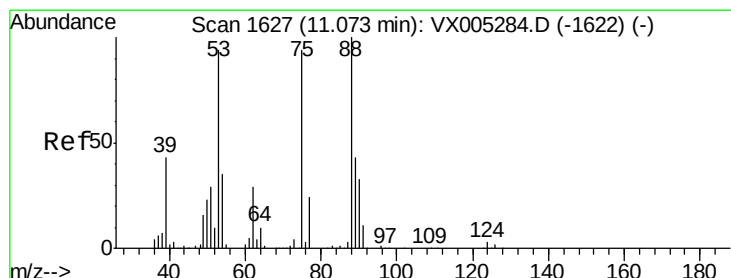
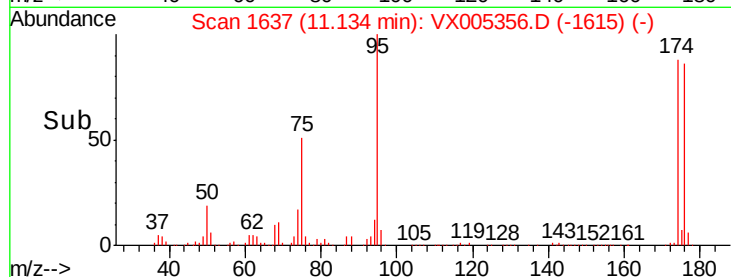
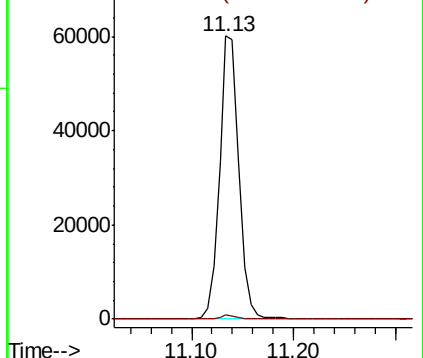
75 100

77 1.2 20.2 60.6#



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: 68.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

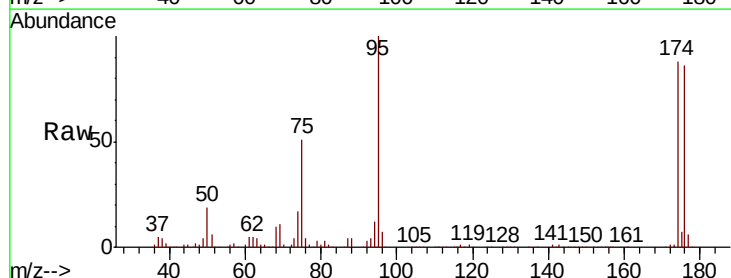
Tgt Ion: 75 Resp: 79562

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

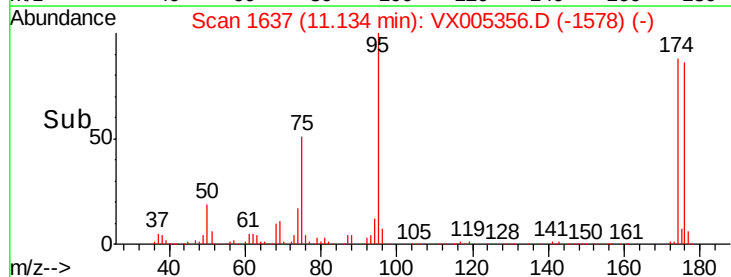
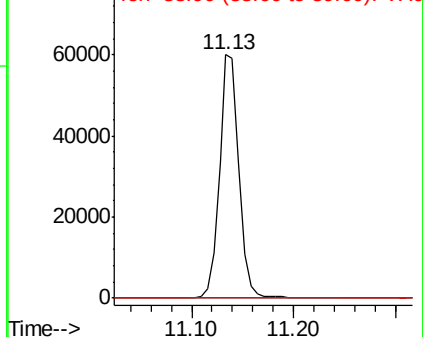
89 0.0 37.2 55.8#

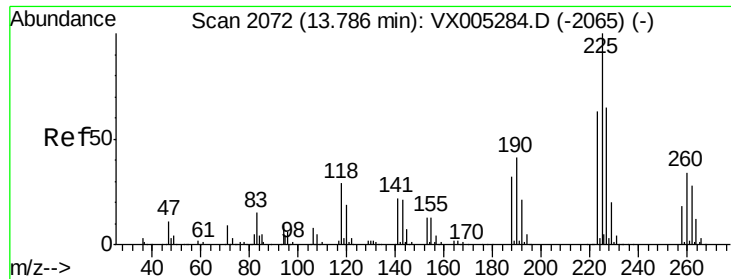


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.435 ug/l

RT: 13.78 min Scan# 2071

Delta R.T. -0.01 min

Lab File: VX005356.D

Acq: 16 Oct 2018 08:40

Instrument :

MSVOA_X

ClientSampleId :

VX1016WBL01

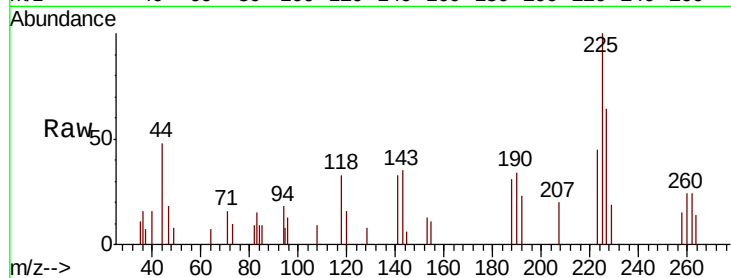
Tgt Ion: 225 Resp: 991

Ion Ratio Lower Upper

225 100

223 50.6 30.1 90.5

227 75.6 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

