

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002280.D
 Acq On : 05 Jun 2018 00:59
 Operator : JC/MD
 Sample : J3269-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4TB08-180529

Quant Time: Jun 05 06:09:09 2018
 Quant Method : Y:\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	254784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	373773	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	188290	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	180559	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
35) Dibromofluoromethane	5.51	113	129819	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	
50) Toluene-d8	8.72	98	528283	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
62) 4-Bromofluorobenzene	11.14	95	183638	42.27	ug/l	0.00
Spiked Amount			Recovery	=	84.54%	

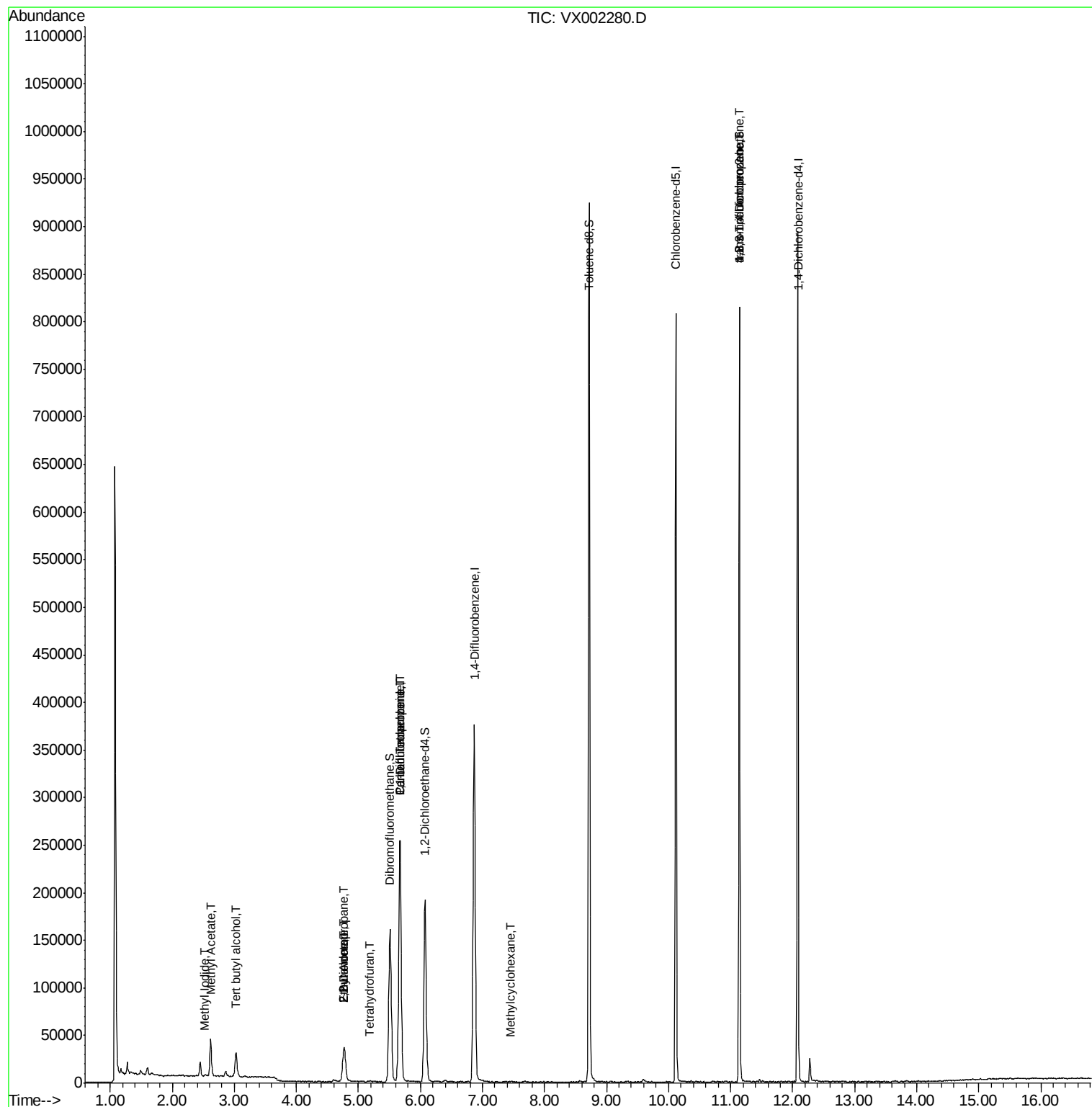
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	898	Below Cal	#	88
5) Bromomethane	1.67	94	1535	Below Cal	#	79
8) Diethyl Ether	2.20	74	32	Below Cal	#	1
10) Methyl Iodide	2.52	142	1888	0.49	ug/l	# 97
11) Tert butyl alcohol	3.03	59	16201	2.07	ug/l	# 76
13) Acrolein	2.31	56	309	Below Cal	#	52
15) Acrylonitrile	3.15	53	467	Below Cal	#	31
16) Acetone	2.45	43	15091	Below Cal		98
18) Methyl Acetate	2.62	43	11846	0.58	ug/l	# 55
19) Methyl tert-butyl Ether	3.24	73	73	Below Cal	#	1
20) Methylene Chloride	2.85	84	2480	Below Cal	#	95
22) Diisopropyl ether	3.87	45	131	Below Cal	#	53
25) 2-Butanone	4.77	43	3213	1.29	ug/l	# 74
26) 2,2-Dichloropropane	4.77	77	3163	0.70	ug/l	# 53
28) Bromochloromethane	5.01	49	61	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	499	0.31	ug/l	# 85
36) 1,1-Dichloropropene	5.67	75	18065	4.60	ug/l	# 51
37) Ethyl Acetate	4.77	43	3366	0.71	ug/l	# 12
38) Carbon Tetrachloride	5.67	117	23821	5.79	ug/l	# 15
39) Methylcyclohexane	7.45	83	76	0.28	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	99944	24.19	ug/l	# 32
81) trans-1,4-Dichloro-2-buten	11.14	75	99944	84.80	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: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

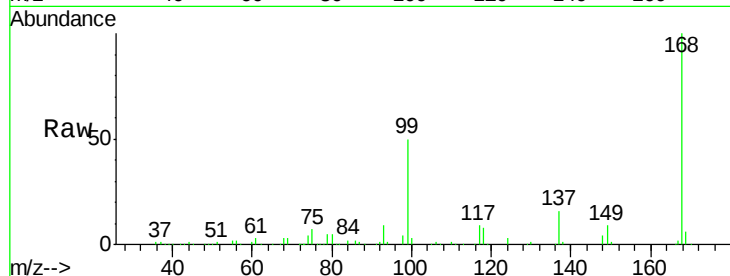
Z4TB08-180529

Tot Ion:168 Resp: 254784

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

5.67

100000

80000

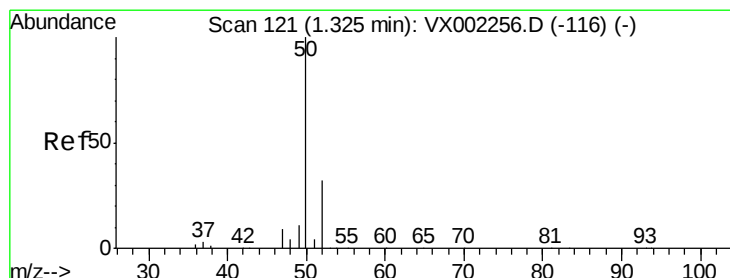
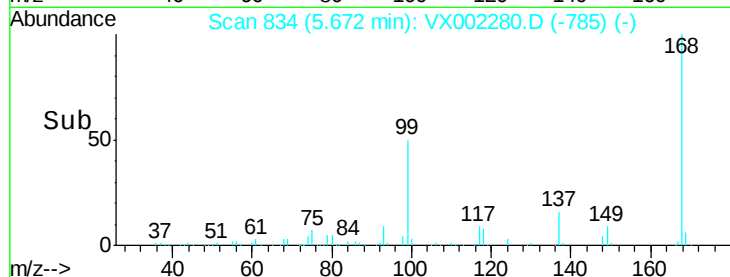
60000

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: VX002280.D

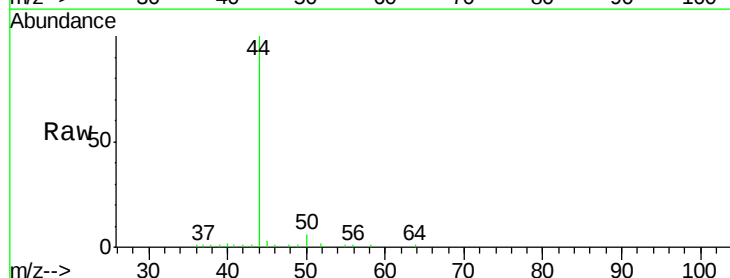
Acq: 05 Jun 2018 00:59

Tgt Ion: 50 Resp: 898

Ion Ratio Lower Upper

50 100

52 38.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

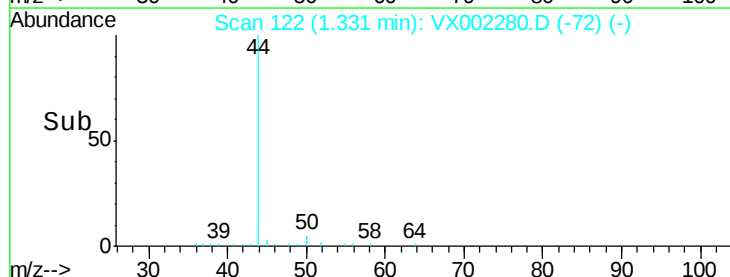
300

200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

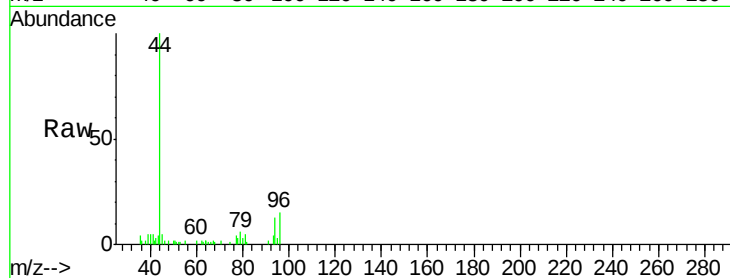
Z4TB08-180529

Tot Ion: 94 Resp: 1535

Ion Ratio Lower Upper

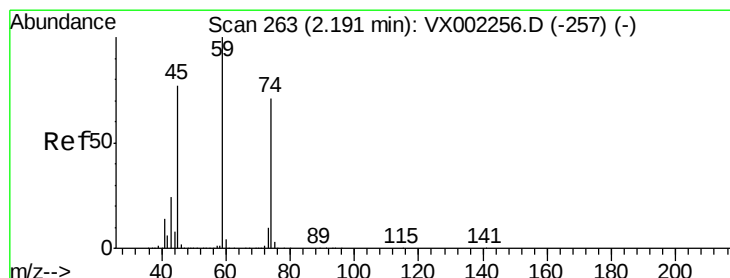
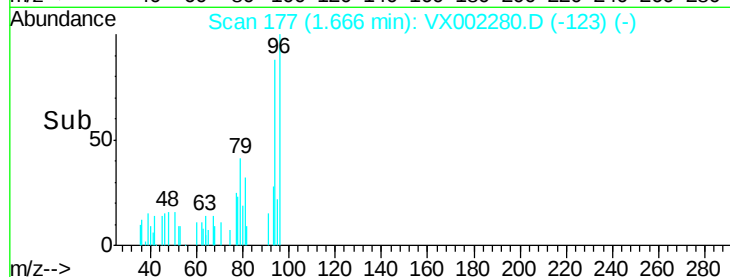
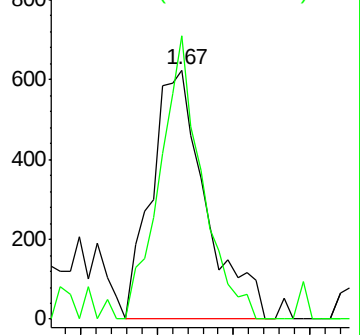
94 100

96 113.6 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: VX002280.D

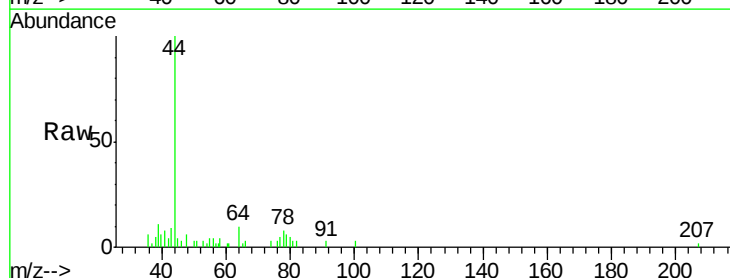
Acq: 05 Jun 2018 00:59

Tgt Ion: 74 Resp: 32

Ion Ratio Lower Upper

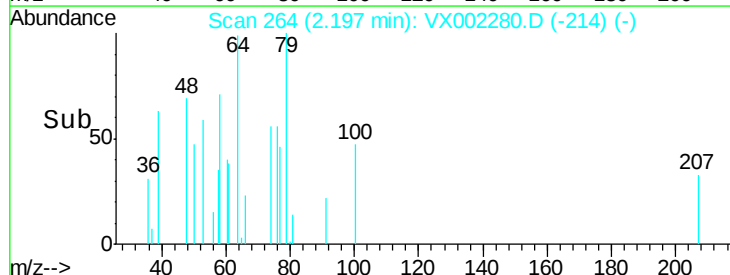
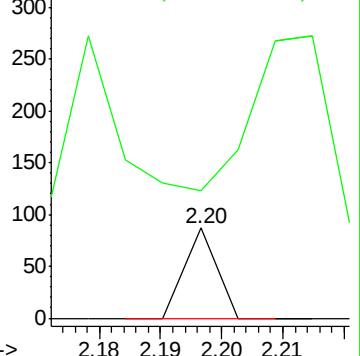
74 100

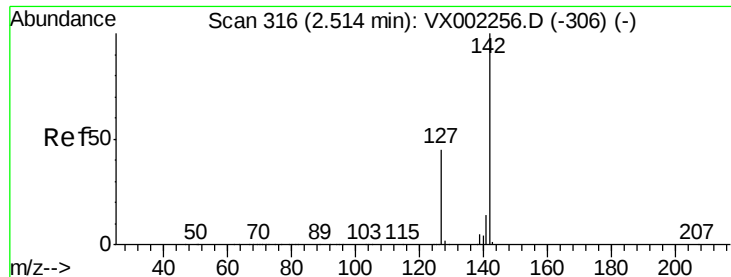
45 384.4 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

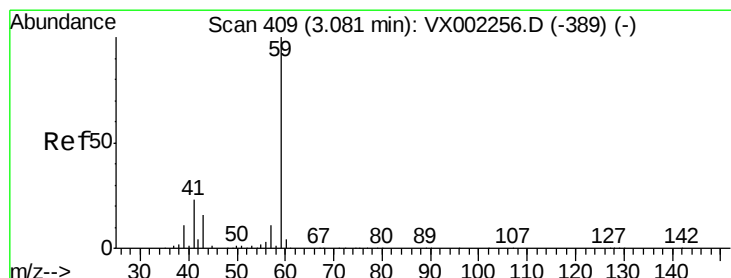
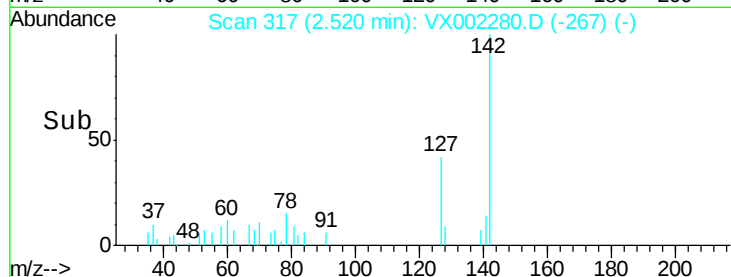
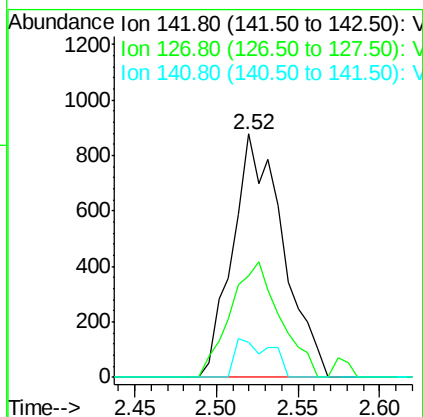
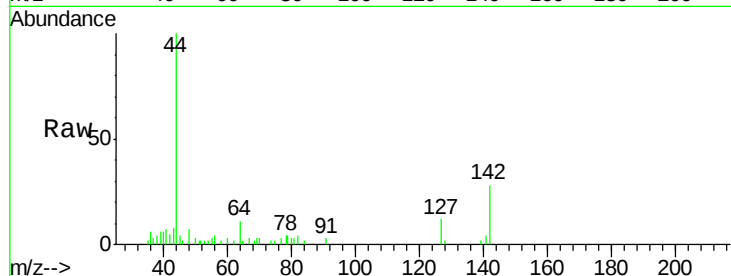




#10
Methvl Iodide
Concen: 0.49 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

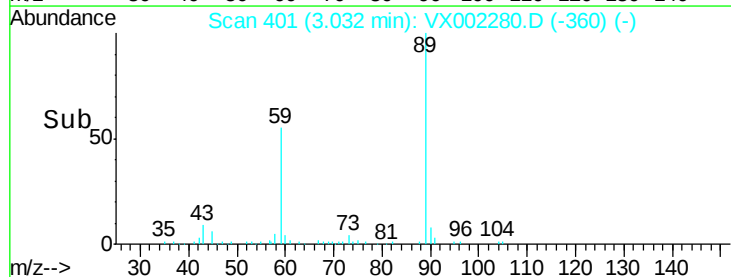
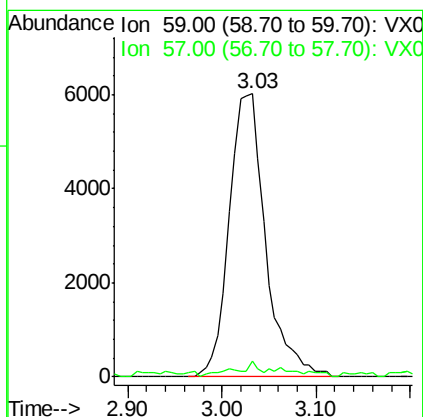
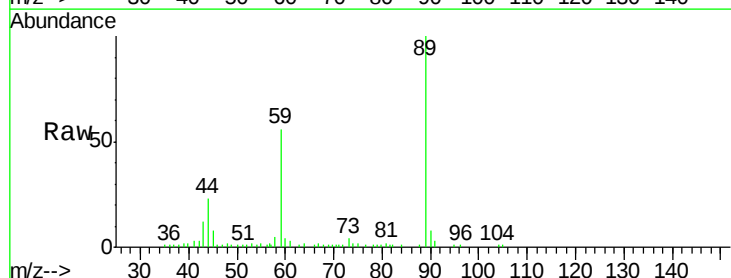
Instrument :
MSVOA_X
ClientSampleId :
Z4TB08-180529

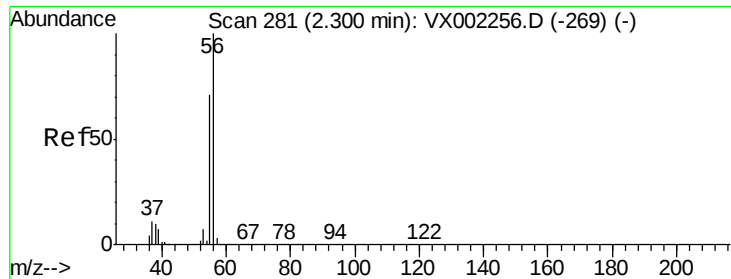
Tot Ion:142 Resp: 1888
Ion Ratio Lower Upper
142 100
127 47.0 36.6 55.0
141 11.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 2.07 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Tgt Ion: 59 Resp: 16201
Ion Ratio Lower Upper
59 100
57 1.1 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 283

Delta R.T. 0.01 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampled :

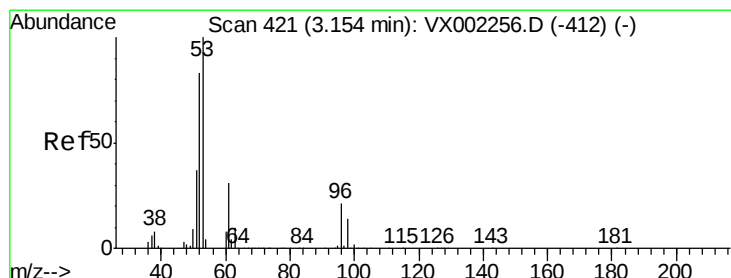
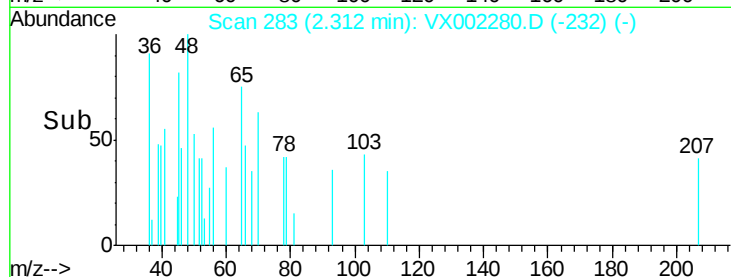
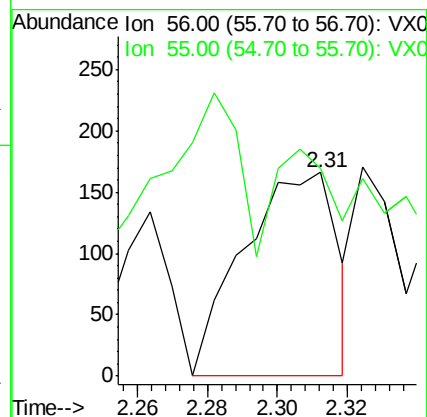
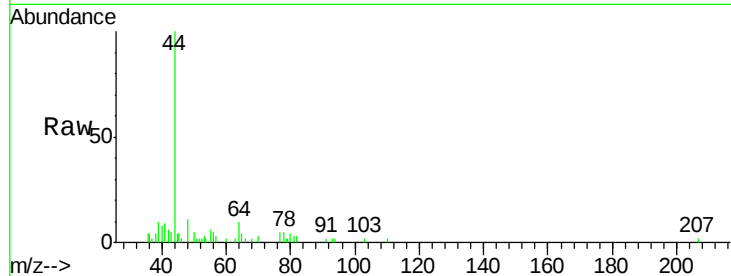
Z4TB08-180529

Tot Ion: 56 Resp: 309

Ion Ratio Lower Upper

56 100

55 31.1 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

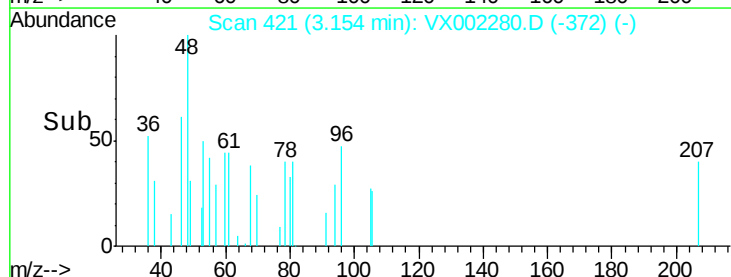
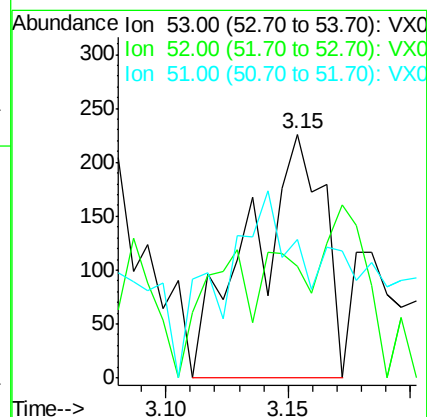
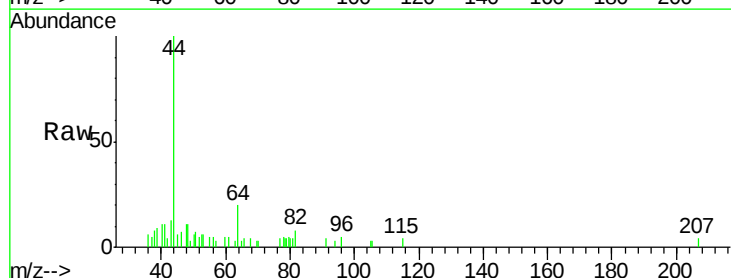
Tgt Ion: 53 Resp: 467

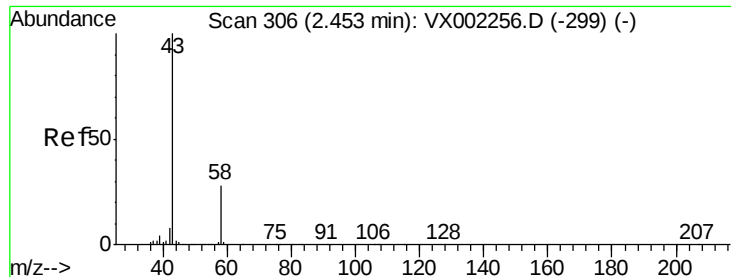
Ion Ratio Lower Upper

53 100

52 20.6 66.7 100.1#

51 78.6 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

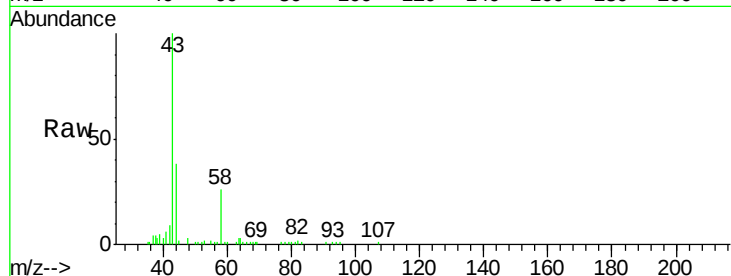
Z4TB08-180529

Tot Ion: 43 Resp: 15091

Ion Ratio Lower Upper

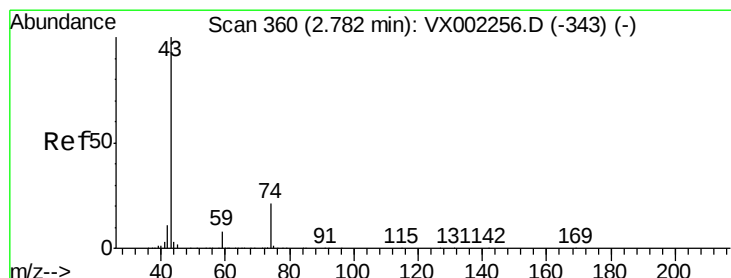
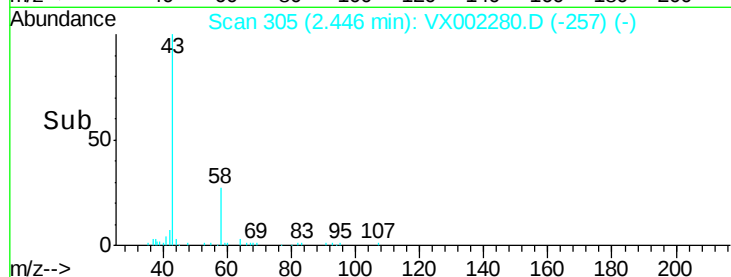
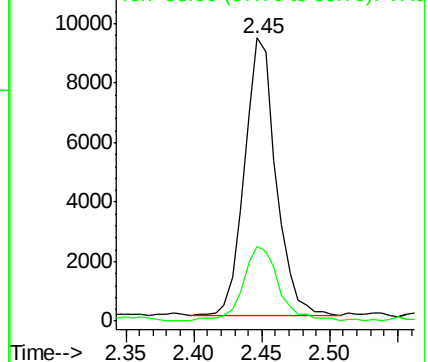
43 100

58 26.8 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: 0.58 ug/l

RT: 2.62 min Scan# 333

Delta R.T. -0.16 min

Lab File: VX002280.D

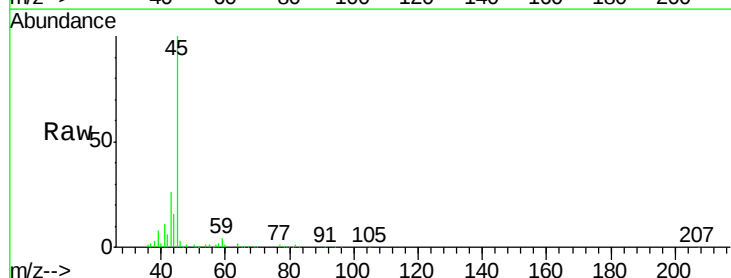
Acq: 05 Jun 2018 00:59

Tgt Ion: 43 Resp: 11846

Ion Ratio Lower Upper

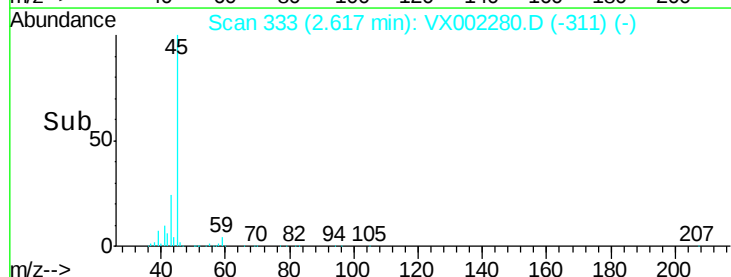
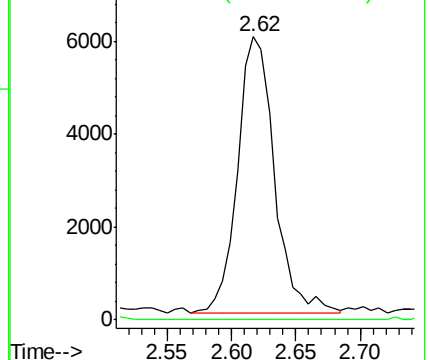
43 100

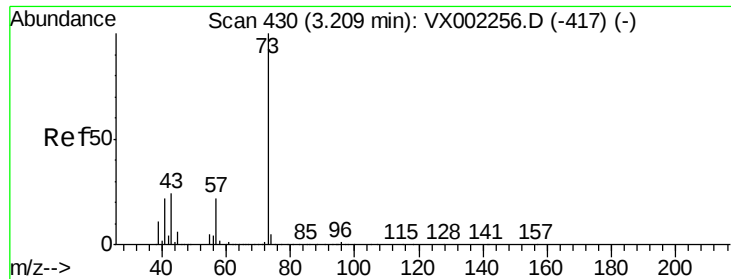
74 0.0 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

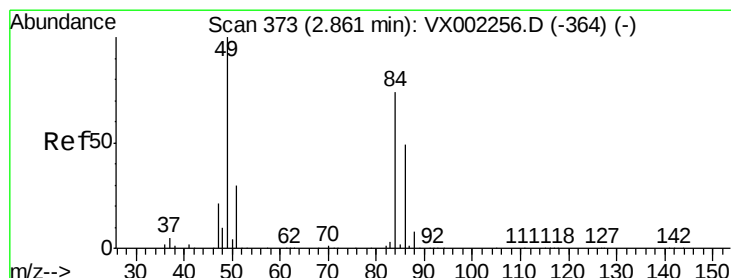
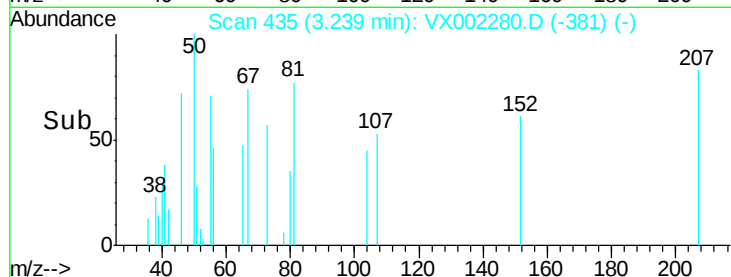
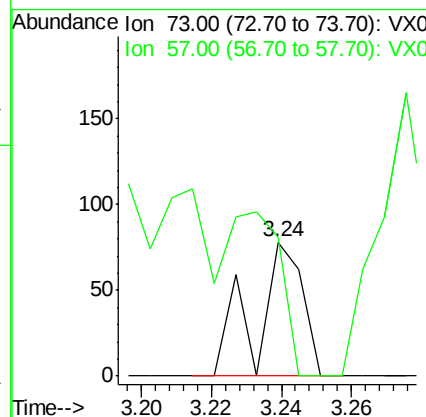
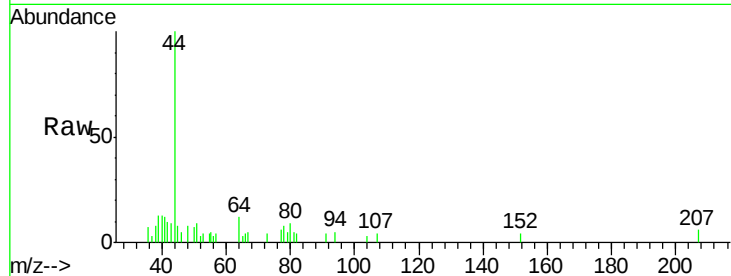




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.24 min Scan# 435
Delta R.T. 0.03 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

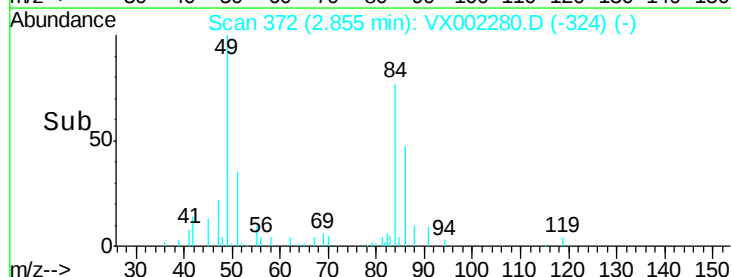
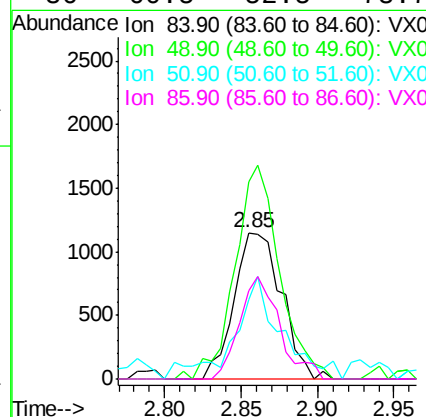
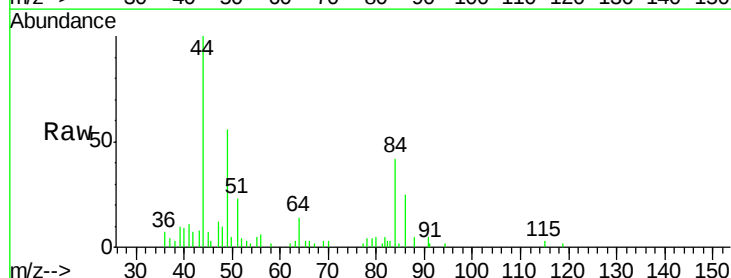
Instrument :
MSVOA_X
ClientSampleId :
Z4TB08-180529

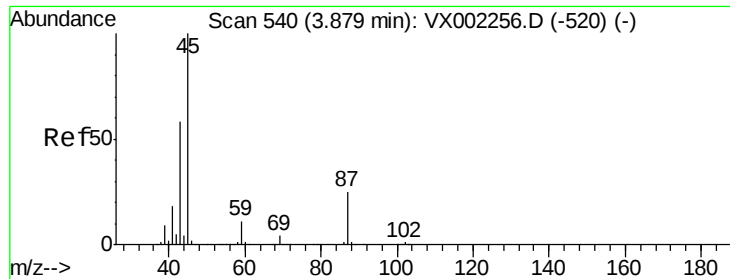
Tot Ion: 73 Resp: 73
Ion Ratio Lower Upper
73 100
57 103.8 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Tgt Ion: 84 Resp: 2480
Ion Ratio Lower Upper
84 100
49 134.7 107.8 161.6
51 54.1 32.8 49.2#
86 60.5 52.5 78.7



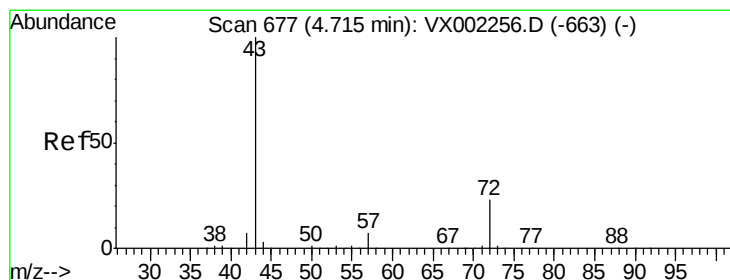
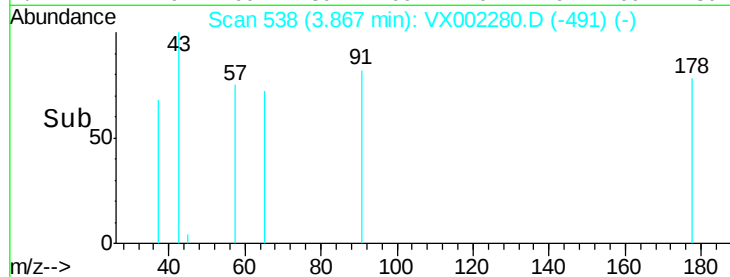
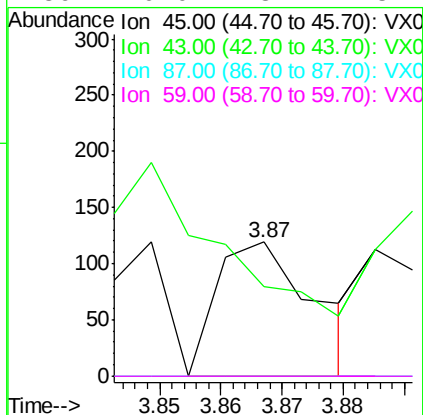
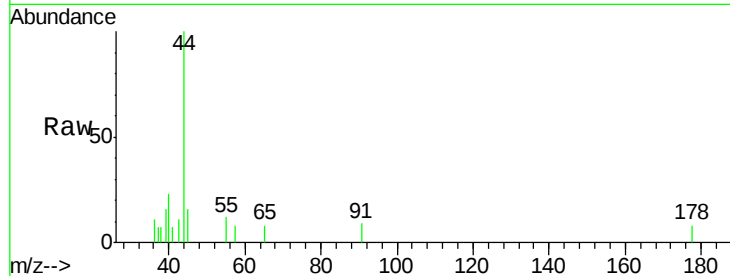


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Instrument :
MSVOA_X
ClientSampleId :
Z4TB08-180529

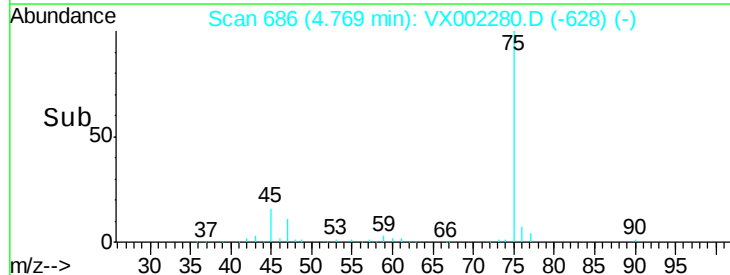
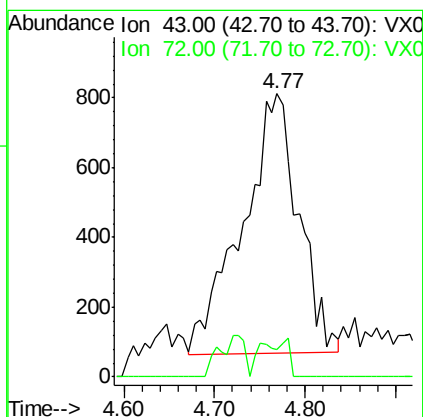
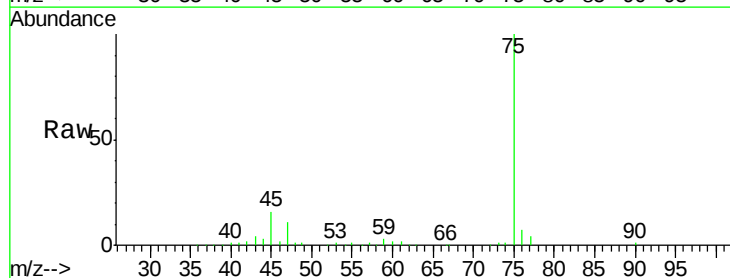
Tot Ion:	45	Resp:	131
Ion	Ratio	Lower	Upper
45	100		
43	21.8	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

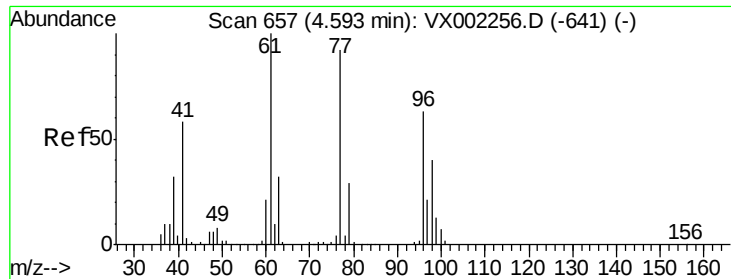


#25

2-Butanone
Concen: 1.29 ug/l
RT: 4.77 min Scan# 686
Delta R.T. 0.05 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Tgt Ion:	43	Resp:	3213
Ion	Ratio	Lower	Upper
43	100		
72	10.6	18.5	27.7#





#26

2,2-Dichloropropane

Concen: 0.70 ug/l

RT: 4.77 min Scan# 686

Delta R.T. 0.18 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

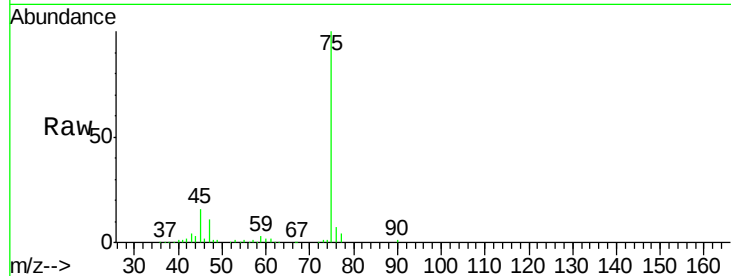
Z4TB08-180529

Tot Ion: 77 Resp: 3163

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.77

800

600

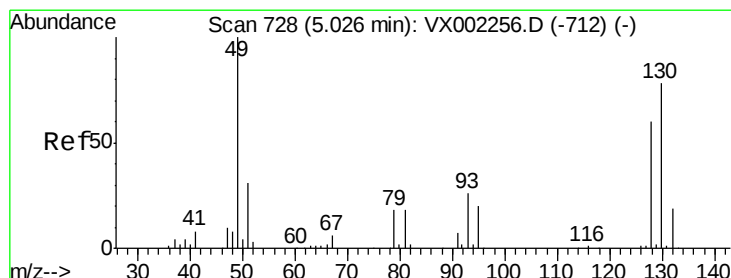
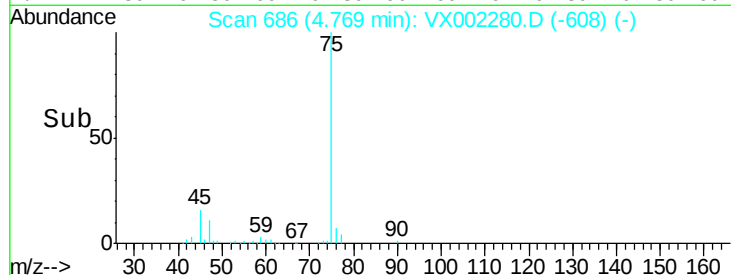
400

200

0

4.70 4.80 4.90

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 725

Delta R.T. -0.02 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

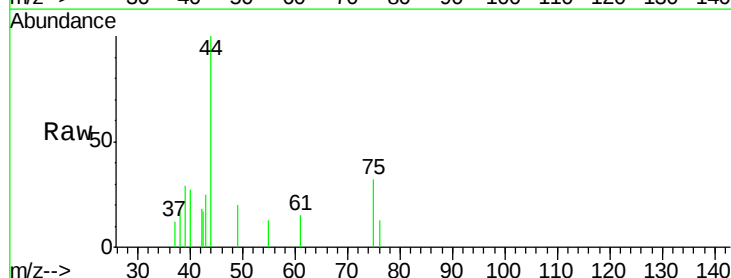
Tgt Ion: 49 Resp: 61

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

5.01

120

100

80

60

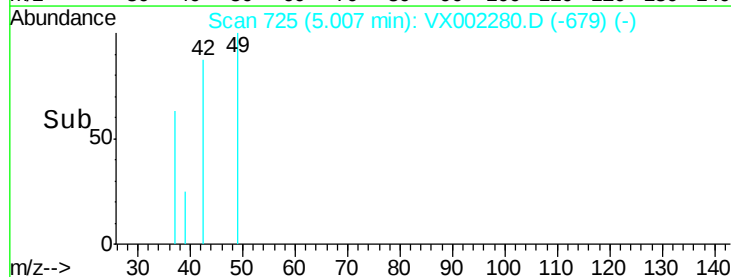
40

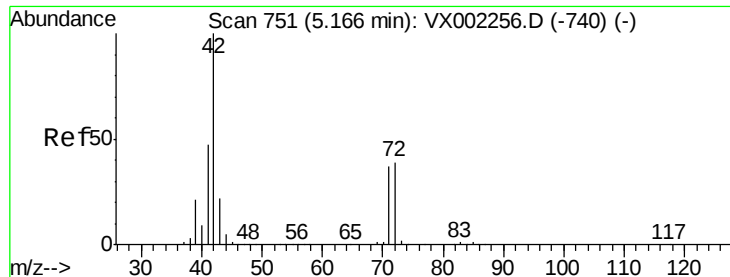
20

0

4.99 5.00 5.01 5.02 5.03

Time-->





#29

Tetrahydrofuran

Concen: 0.31 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

Z4TB08-180529

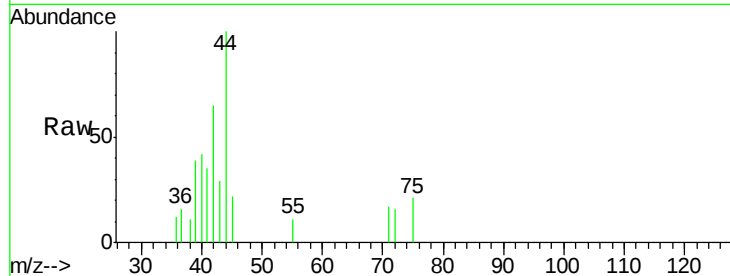
Tot Ion: 42 Resp: 499

Ion Ratio Lower Upper

42 100

72 51.7 32.0 48.0#

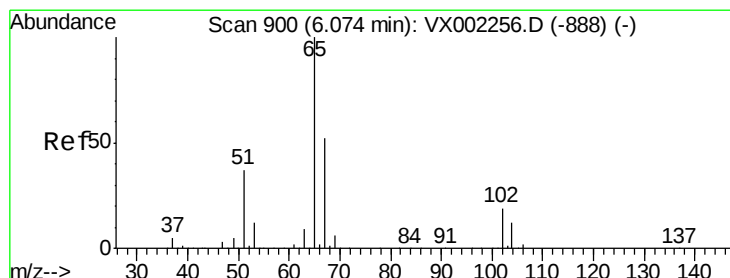
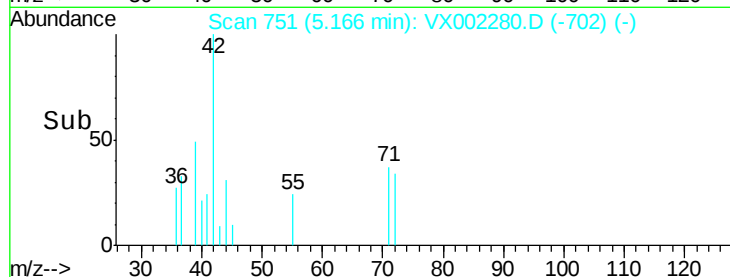
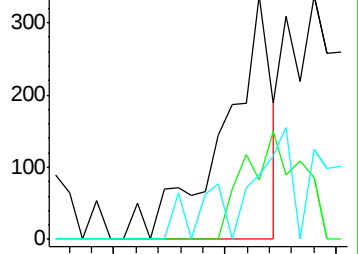
71 31.7 30.1 45.1



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



#33

1,2-Dichloroethane-d4

Concen: 49.52 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002280.D

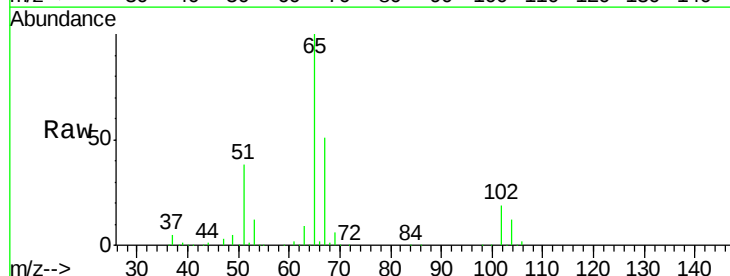
Acq: 05 Jun 2018 00:59

Tgt Ion: 65 Resp: 180559

Ion Ratio Lower Upper

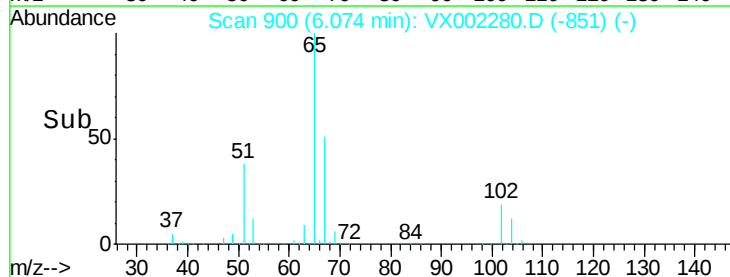
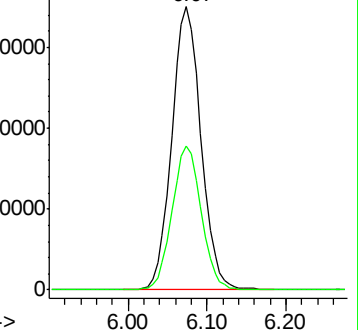
65 100

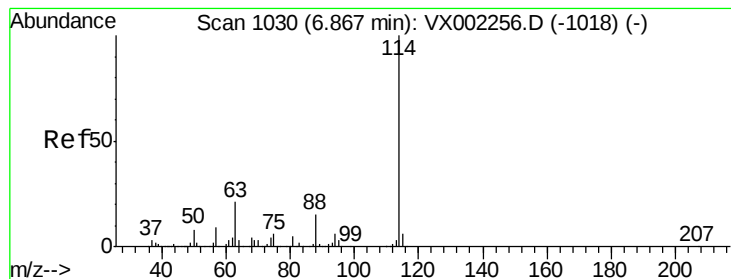
67 50.9 0.0 102.6



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: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

Z4TB08-180529

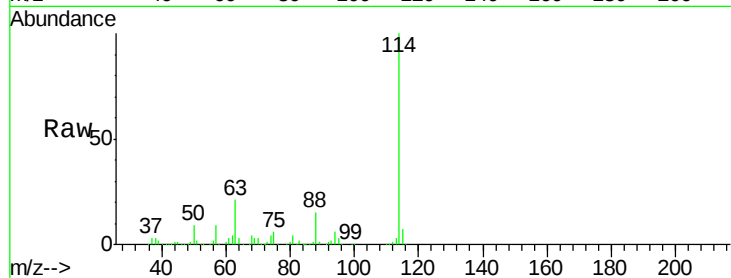
Tot Ion:114 Resp: 373773

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

88 15.0 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

200000

150000

100000

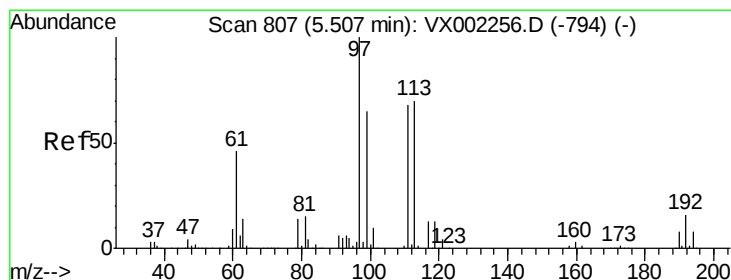
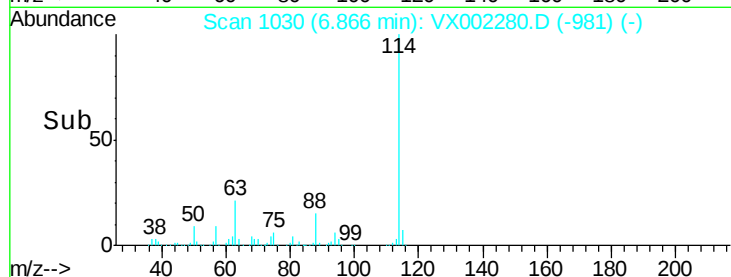
50000

0

6.87

6.70 6.80 6.90 7.00 7.10

Time-->



#35

Dibromofluoromethane

Concen: 44.17 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

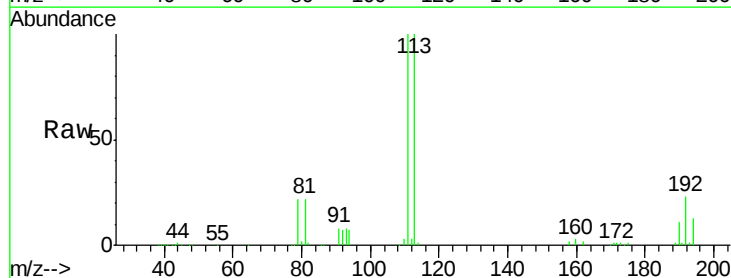
Tgt Ion:113 Resp: 129819

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

192 23.7 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

60000

50000

40000

30000

20000

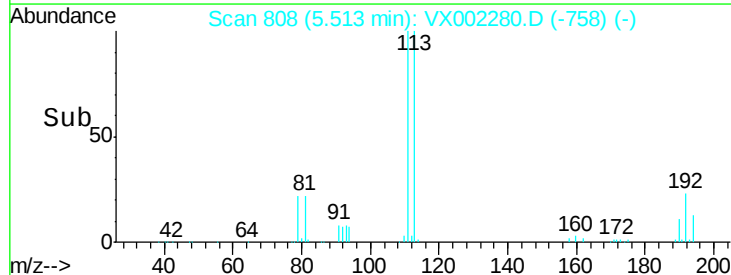
10000

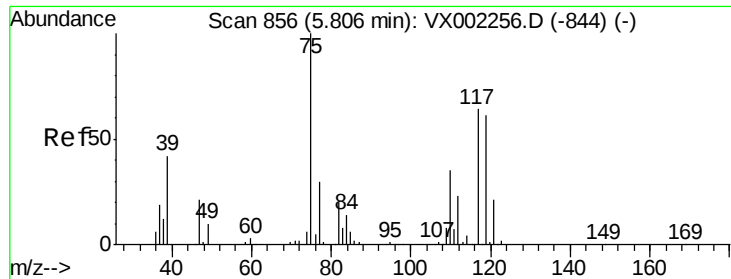
0

5.51

5.40 5.50 5.60

Time-->

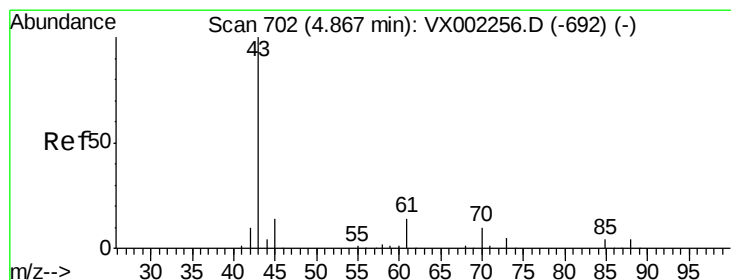
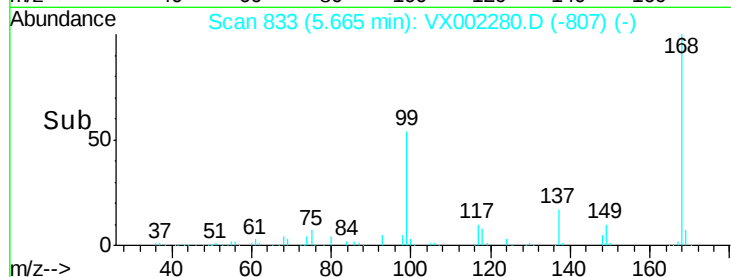
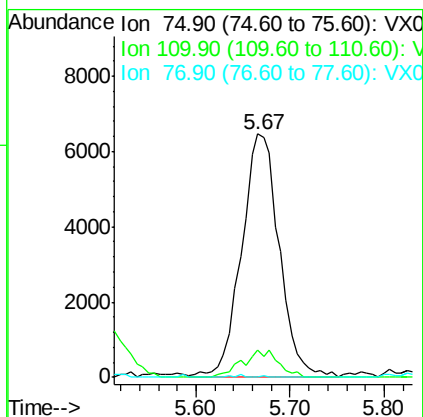
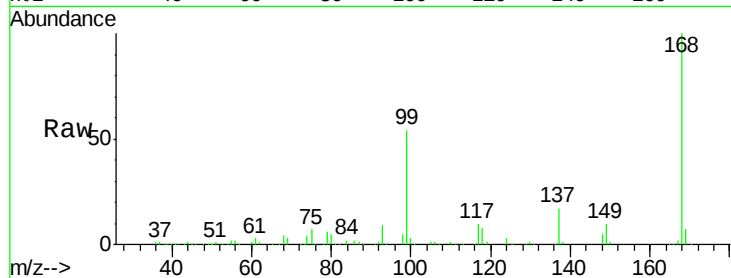




#36
 1,1-Dichloropropene
 Concen: 4.60 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002280.D
 Acq: 05 Jun 2018 00:59

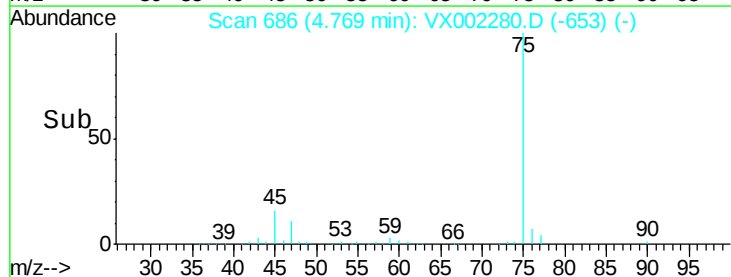
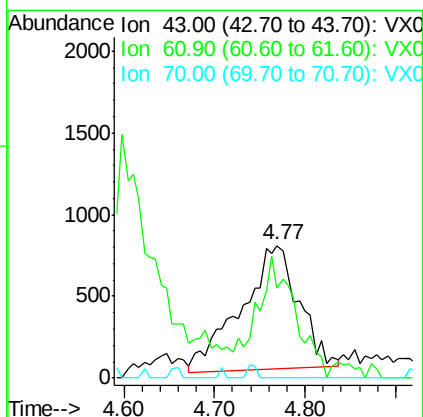
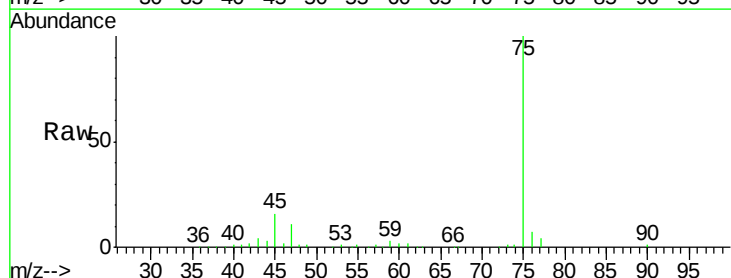
Instrument :
 MSVOA_X
 ClientSampleId :
 Z4TB08-180529

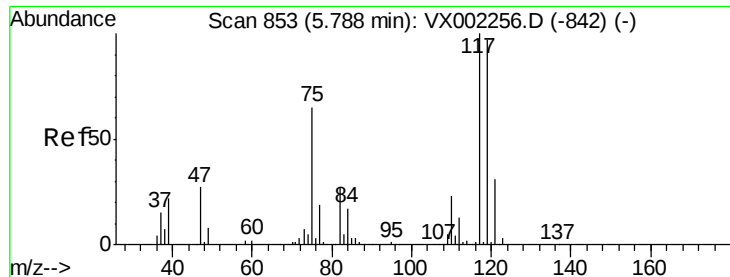
Tot Ion: 75 Resp: 18065
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.1 54.4#
 77 0.1 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 0.71 ug/l
 RT: 4.77 min Scan# 686
 Delta R.T. -0.10 min
 Lab File: VX002280.D
 Acq: 05 Jun 2018 00:59

Tgt Ion: 43 Resp: 3366
 Ion Ratio Lower Upper
 43 100
 61 65.8 10.4 15.6#
 70 0.0 7.6 11.4#

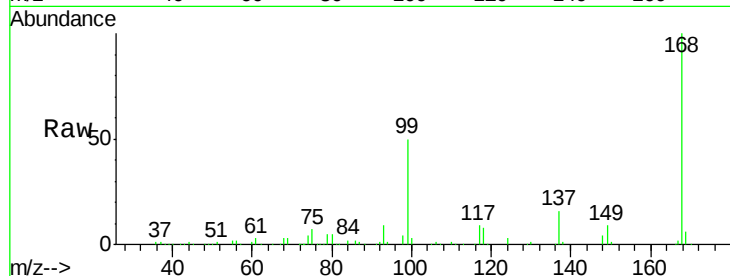




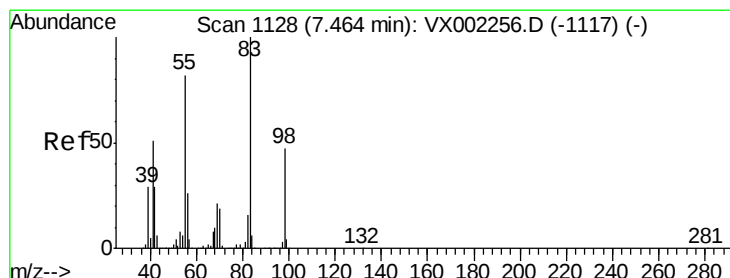
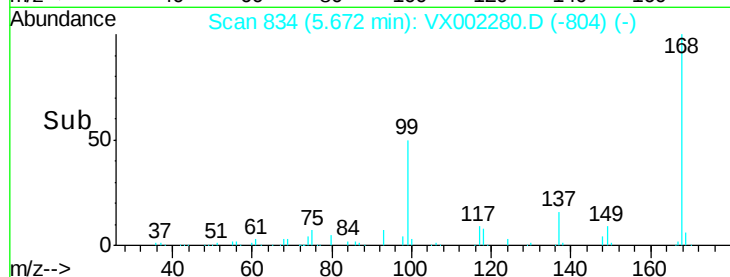
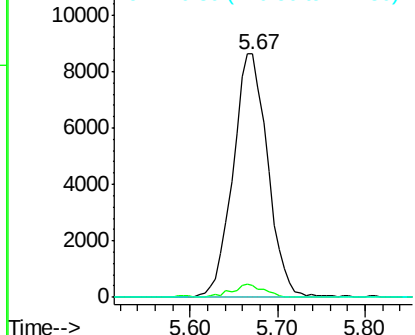
#38
Carbon Tetrachloride
Concen: 5.79 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Instrument :
MSVOA_X
ClientSampleId :
Z4TB08-180529

Tot Ion:117 Resp: 23821
Ion Ratio Lower Upper
117 100
119 4.8 77.4 116.0#
121 0.0 24.4 36.6#

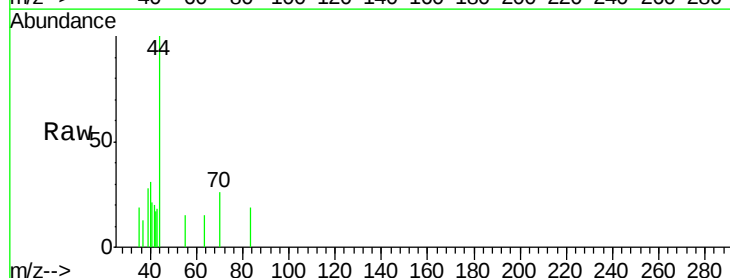


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

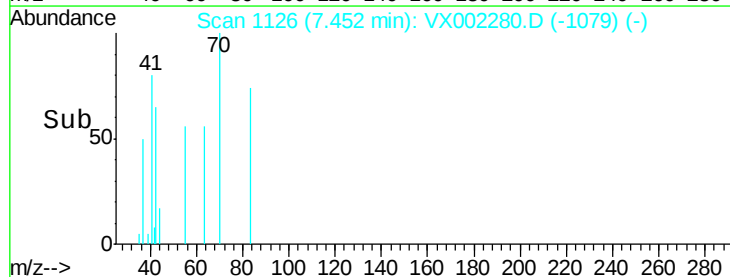
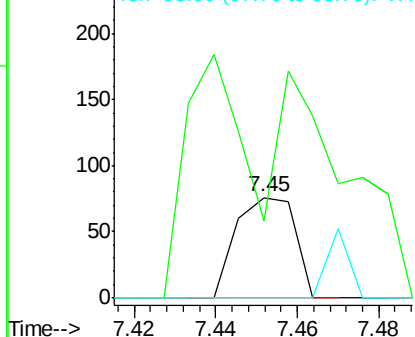


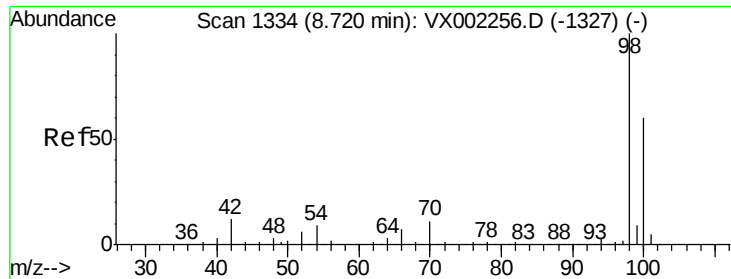
#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Tgt Ion: 83 Resp: 76
Ion Ratio Lower Upper
83 100
55 0.0 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: 46.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

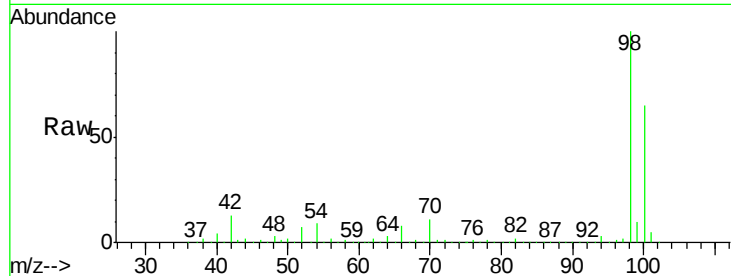
Z4TB08-180529

Tot Ion: 98 Resp: 528283

Ion Ratio Lower Upper

98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

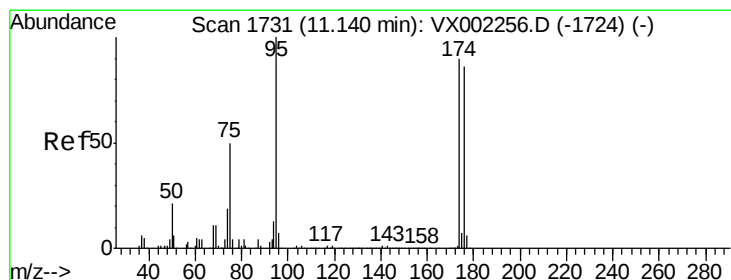
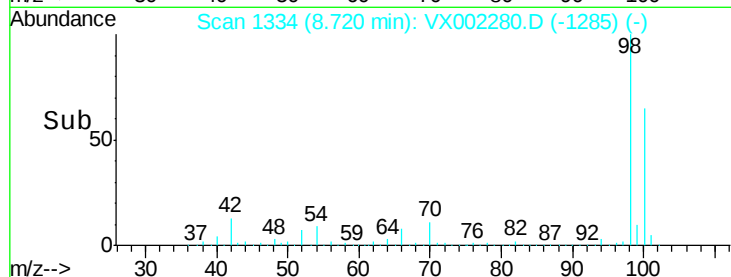
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

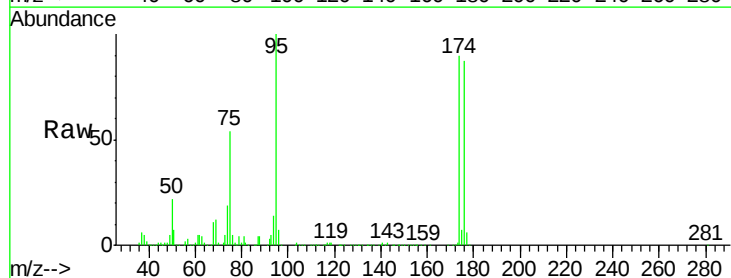
Tgt Ion: 95 Resp: 183638

Ion Ratio Lower Upper

95 100

174 94.6 0.0 187.4

176 92.3 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

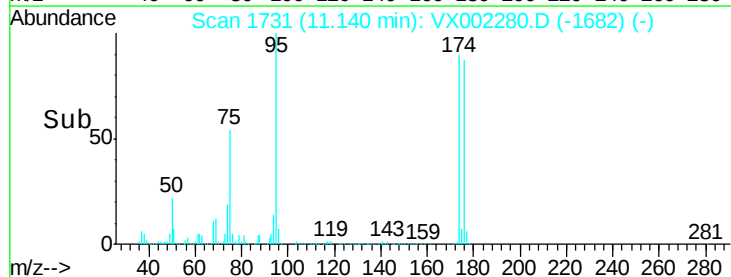
150000

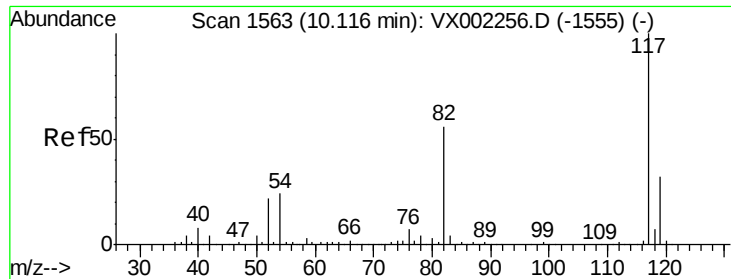
100000

50000

0

Time-->

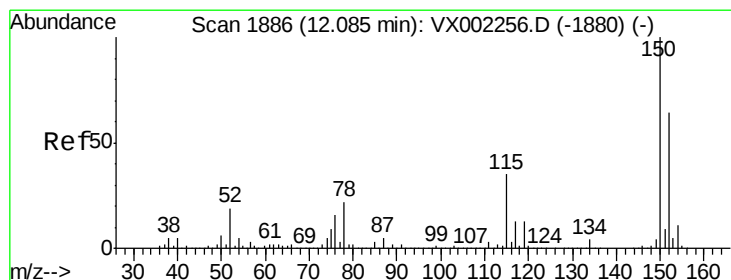
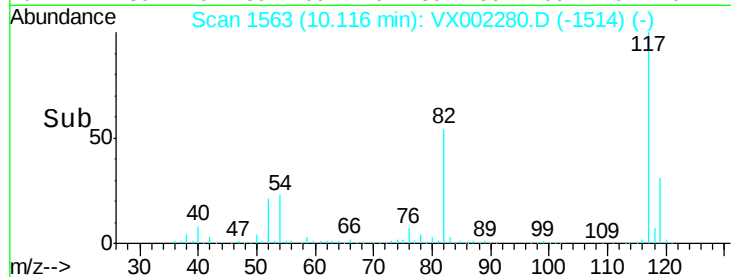
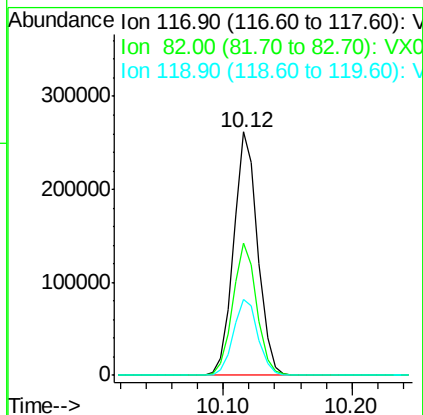
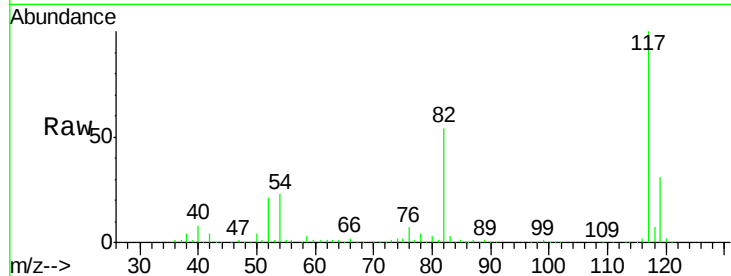




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

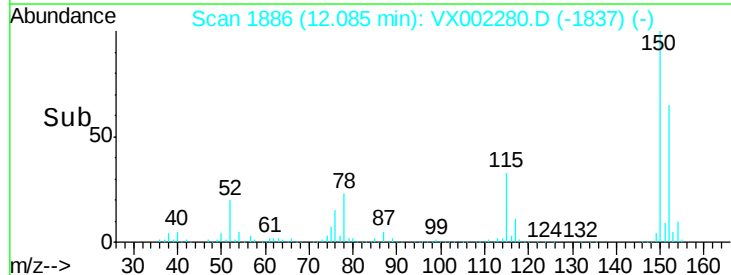
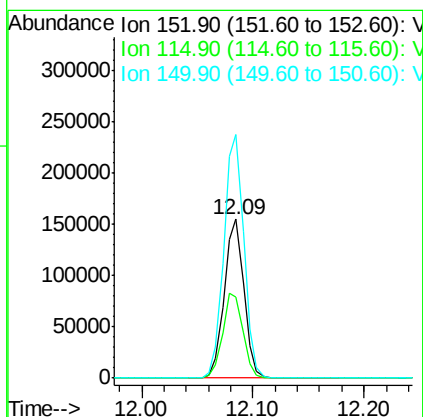
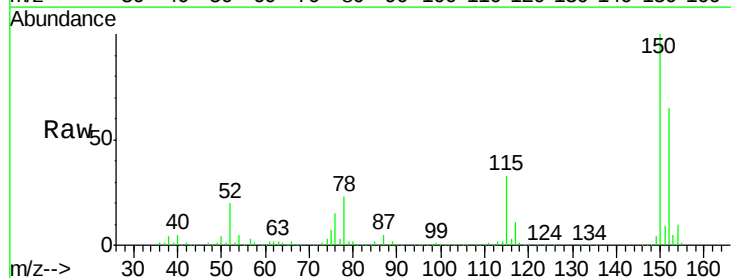
Instrument :
MSVOA_X
ClientSampleId :
Z4TB08-180529

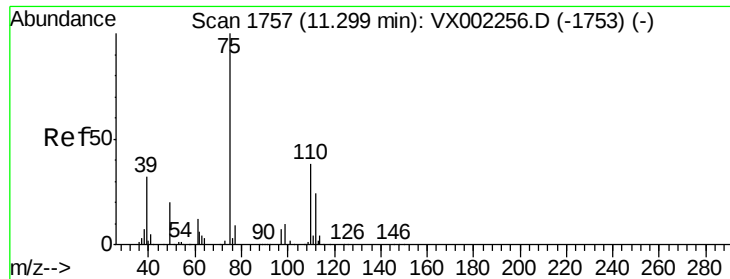
Tot Ion:117 Resp: 340373
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 31.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002280.D
Acq: 05 Jun 2018 00:59

Tgt Ion:152 Resp: 188290
Ion Ratio Lower Upper
152 100
115 55.1 40.1 120.2
150 156.7 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 24.19 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

Instrument :

MSVOA_X

ClientSampleId :

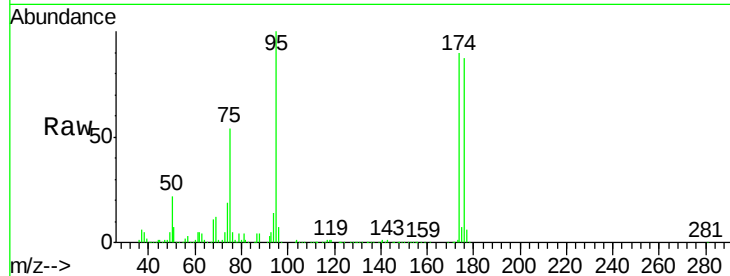
Z4TB08-180529

Tot Ion: 75 Resp: 99944

Ion Ratio Lower Upper

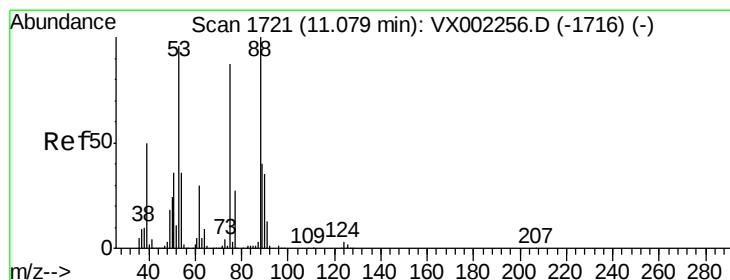
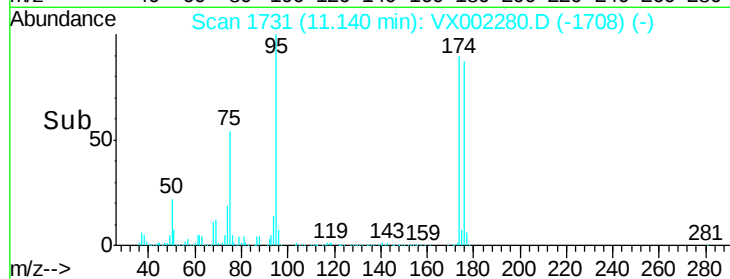
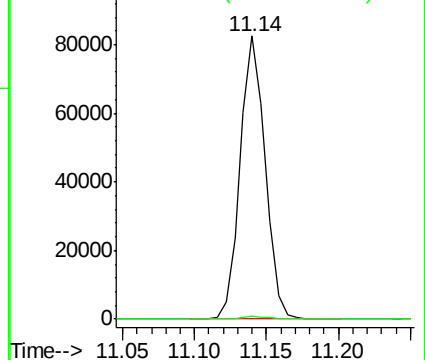
75 100

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: 84.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002280.D

Acq: 05 Jun 2018 00:59

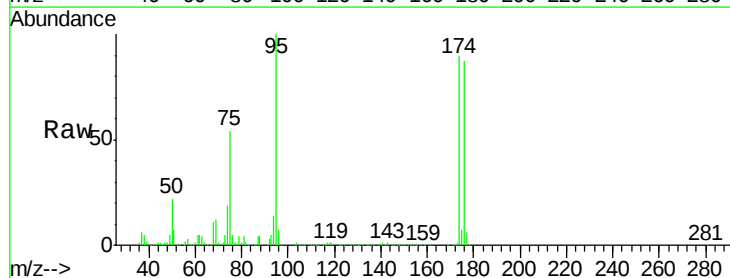
Tgt Ion: 75 Resp: 99944

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

