

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052618\
 Data File : VX002028.D
 Acq On : 26 May 2018 19:26
 Operator : JC/MD
 Sample : J3118-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:35:06 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	313274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	437092	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	389406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	212025	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	264393	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	5.51	113	206123	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
50) Toluene-d8	8.72	98	778513	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	11.14	95	277112	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	265	Below Cal	#	41
5) Bromomethane	1.65	94	1186	Below Cal	#	56
10) Methyl Iodide	2.52	142	1198	0.23	ug/l	82
12) 1,1-Dichloroethene	2.37	96	1650	0.45	ug/l	81
13) Acrolein	2.28	56	339	0.71	ug/l	83
16) Acetone	2.45	43	3590	1.66	ug/l	95
18) Methyl Acetate	2.78	43	798	Below Cal	#	55
20) Methylene Chloride	2.85	84	181	Below Cal	#	29
21) trans-1,2-Dichloroethene	3.17	96	596	Below Cal	#	80
25) 2-Butanone	4.71	43	1901	0.48	ug/l	88
27) cis-1,2-Dichloroethene	4.60	96	9792	2.06	ug/l	32
28) Bromochloromethane	5.07	49	45	Below Cal	#	12
30) Chloroform	5.21	83	2817	0.34	ug/l	92
31) Cyclohexane	5.67	56	6248	0.81	ug/l	3
36) 1,1-Dichloropropene	5.67	75	20899	3.44	ug/l	53
38) Carbon Tetrachloride	5.67	117	28476	4.02	ug/l	15
41) Methacrylonitrile	5.09	41	358	Below Cal	#	55
44) Trichloroethene	7.22	130	28455	5.48	ug/l	93
60) Dibromochloromethane	9.34	129	8507	1.52	ug/l	11
64) Tetrachloroethene	9.34	164	9436	1.69	ug/l	98
74) N-amyl acetate	6.46	43	237	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.27	83	135	Below Cal	#	79
76) 1,2,3-Trichloropropane	11.14	75	146270	28.72	ug/l	33
79) 2-Chlorotoluene	11.43	91	138	Below Cal	#	89
81) trans-1,4-Dichloro-2-buten	11.14	75	146270	69.03	ug/l	10

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

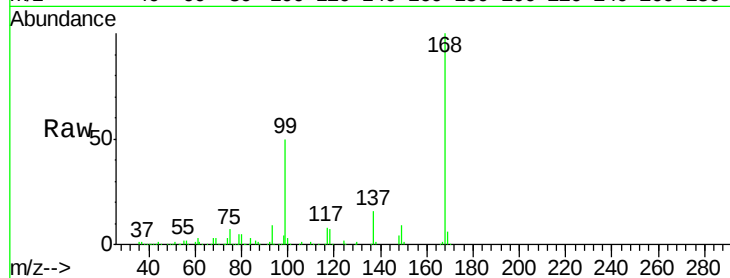
ClientSampleId :

Tot Ion:168 Resp: 313274

Ion Ratio Lower Upper

168 100

99 50.0 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

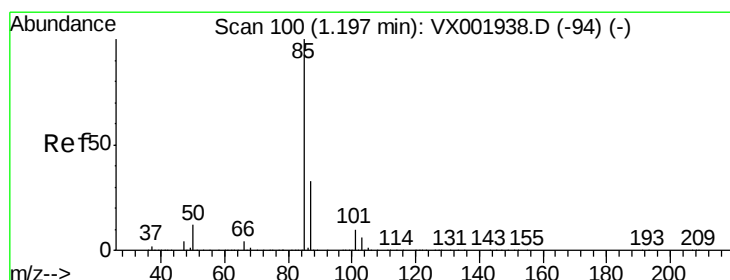
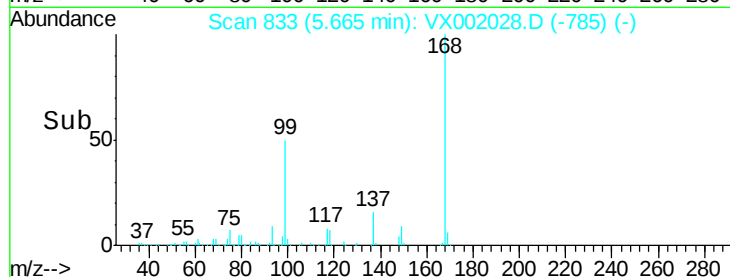
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002028.D

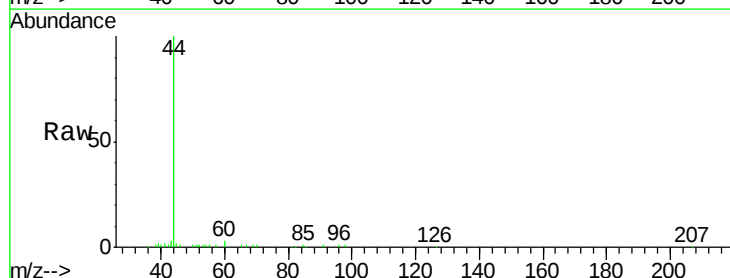
Acq: 26 May 2018 19:26

Tgt Ion: 85 Resp: 265

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

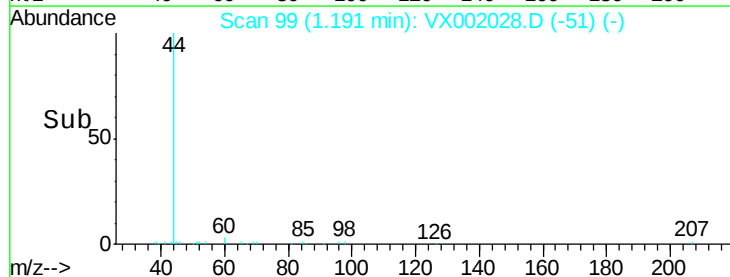
150

100

50

0

Time--> 1.15 1.20 1.25





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

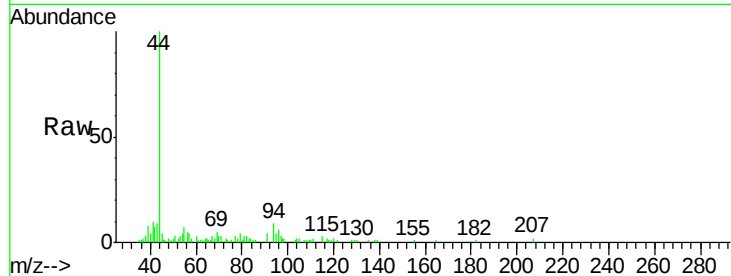
ClientSampleId :

Tot Ion: 94 Resp: 1186

Ion Ratio Lower Upper

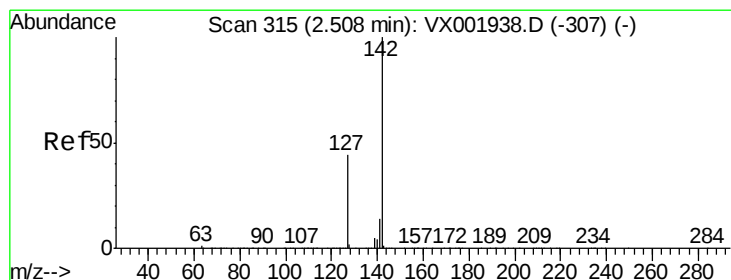
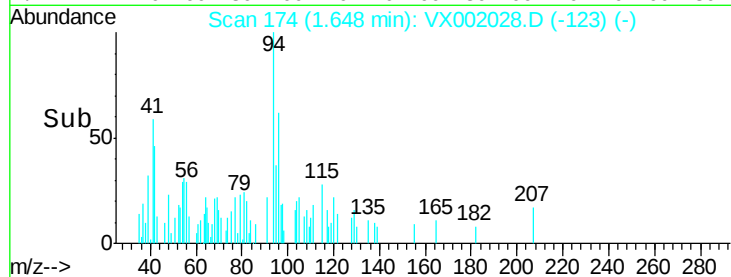
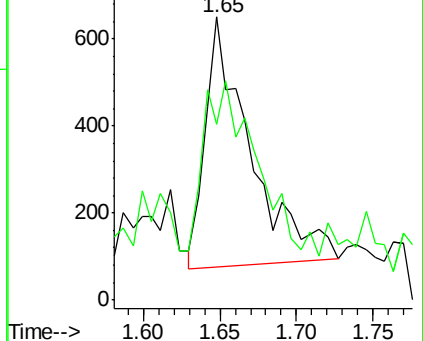
94 100

96 52.4 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.23 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

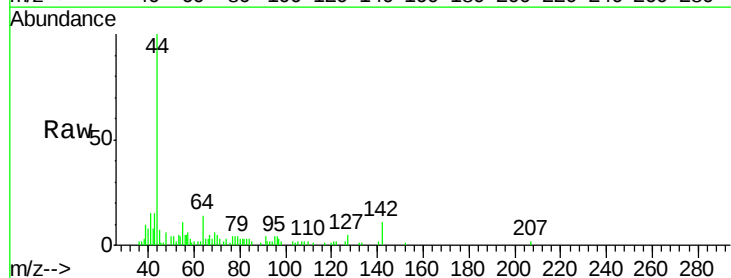
Tgt Ion:142 Resp: 1198

Ion Ratio Lower Upper

142 100

127 58.8 35.5 53.3#

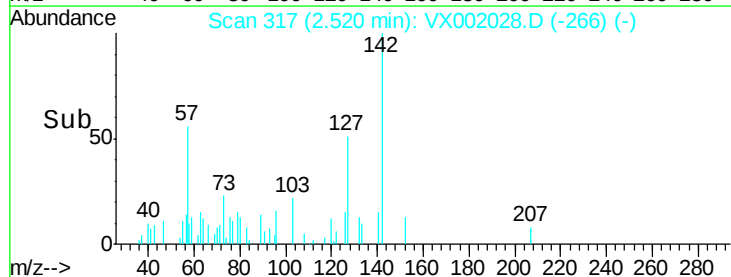
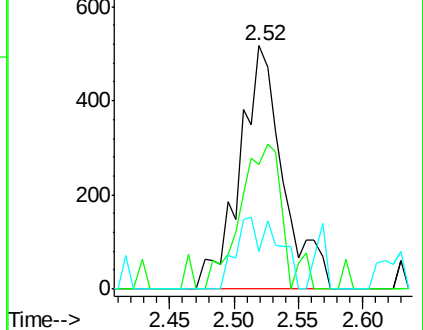
141 15.8 11.3 16.9

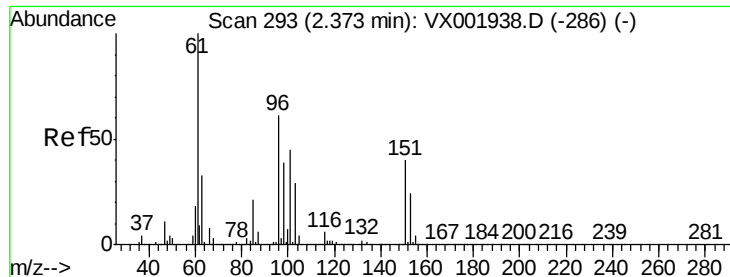


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.45 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

ClientSampled :

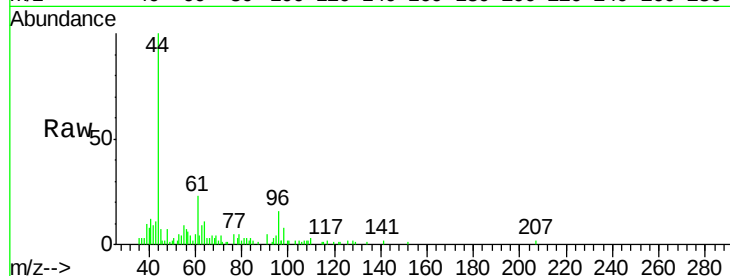
Tot Ion: 96 Resp: 1650

Ion Ratio Lower Upper

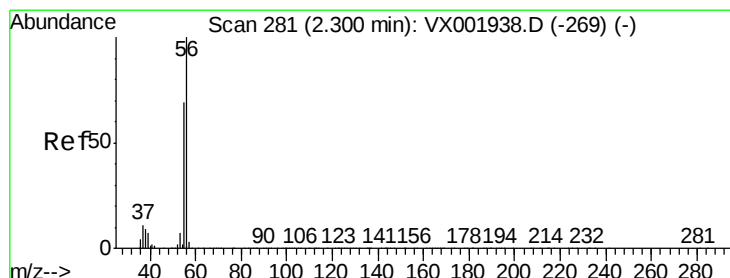
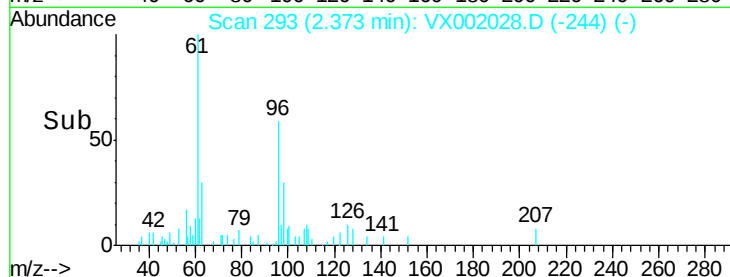
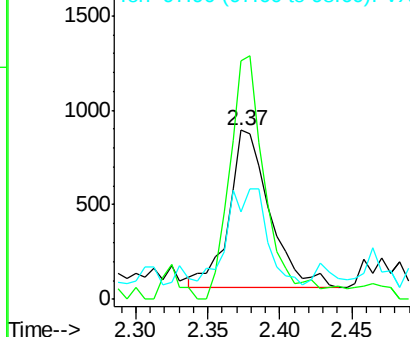
96 100

61 144.2 131.7 197.5

98 42.4 51.6 77.4#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.71 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.02 min

Lab File: VX002028.D

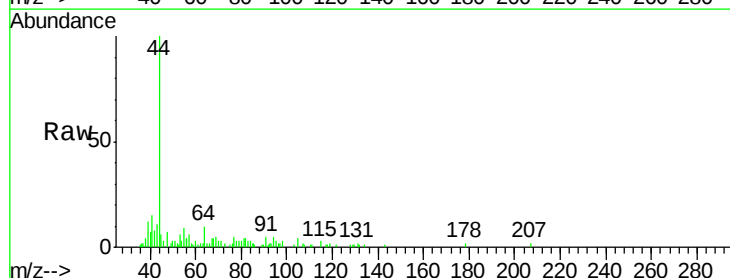
Acq: 26 May 2018 19:26

Tgt Ion: 56 Resp: 339

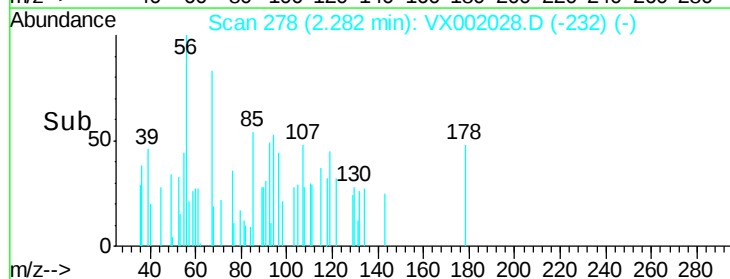
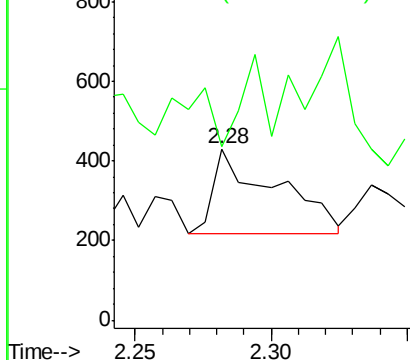
Ion Ratio Lower Upper

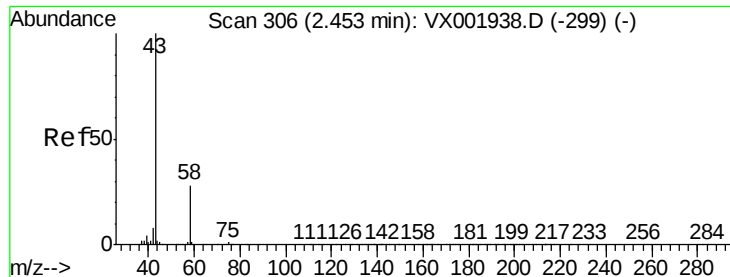
56 100

55 56.9 56.8 85.2



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.66 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

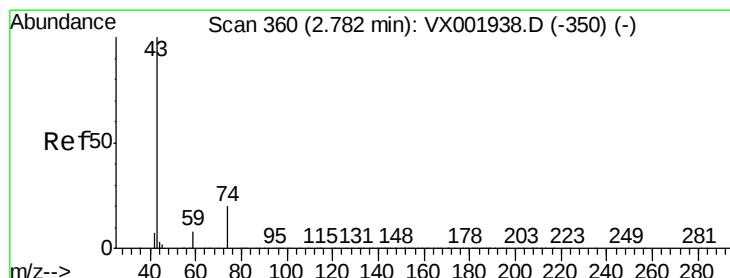
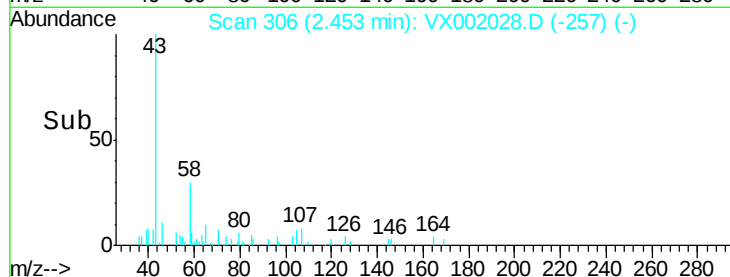
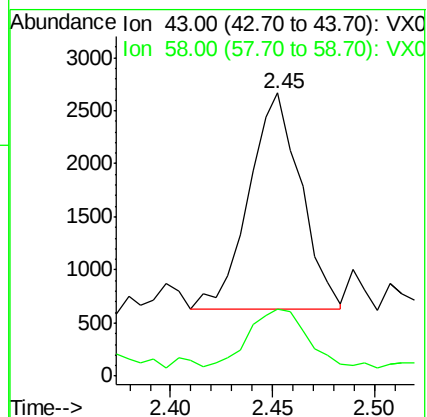
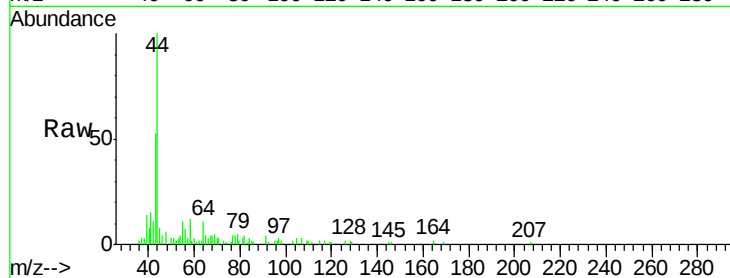
ClientSampleId :

Tot Ion: 43 Resp: 3590

Ion Ratio Lower Upper

43 100

58 25.3 22.3 33.5



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002028.D

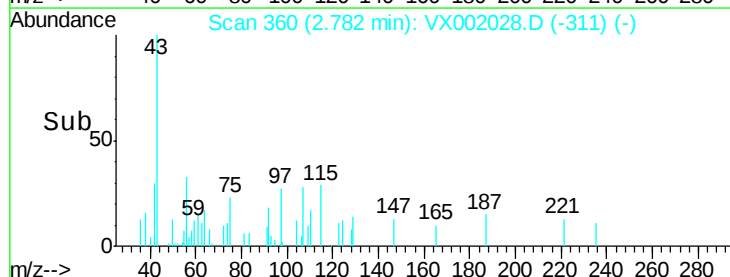
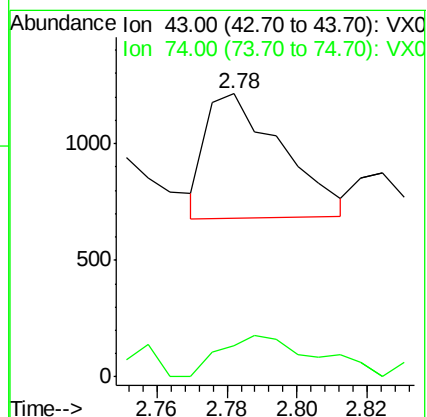
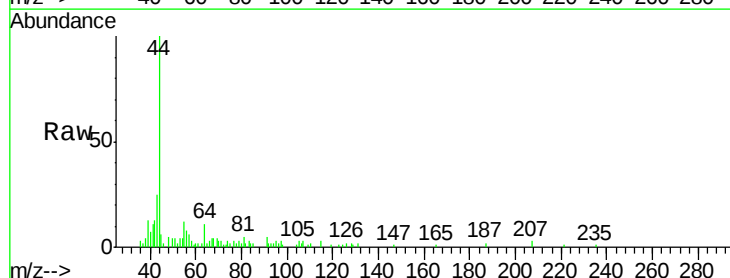
Acq: 26 May 2018 19:26

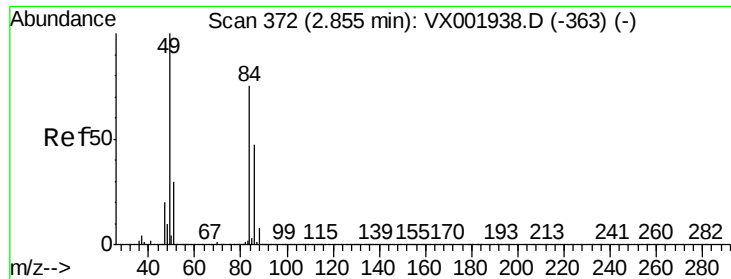
Tgt Ion: 43 Resp: 798

Ion Ratio Lower Upper

43 100

74 41.9 16.8 25.2#

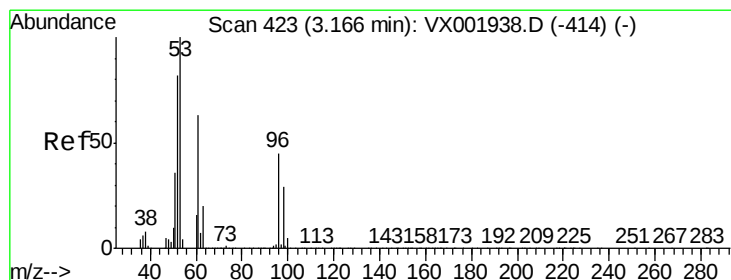
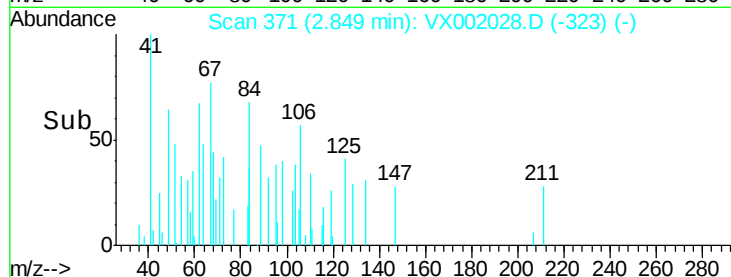
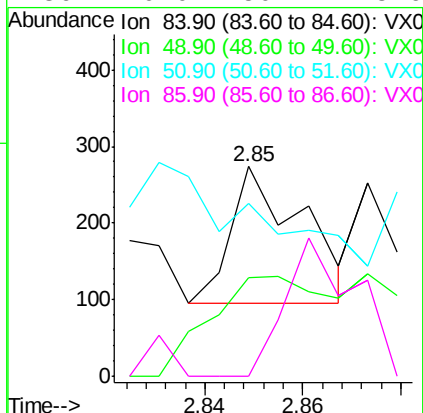
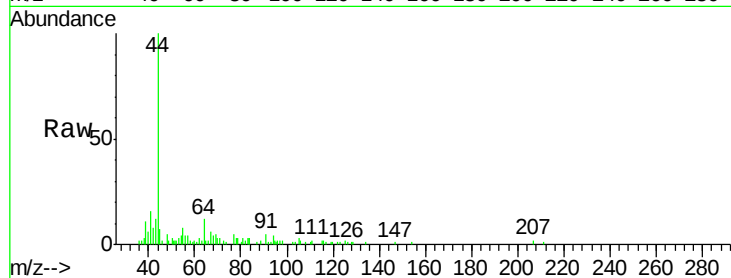




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 371
Delta R.T. -0.01 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

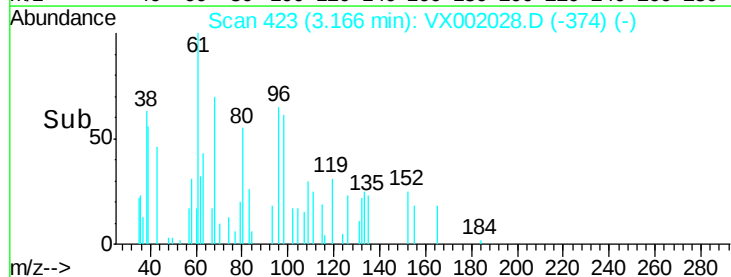
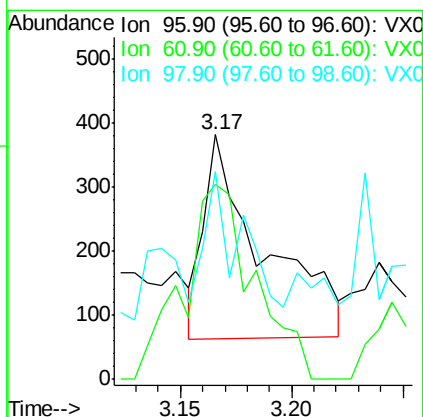
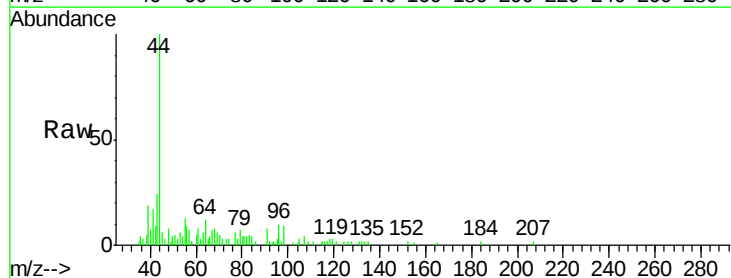
Instrument :
MSVOA_X
ClientSampled :

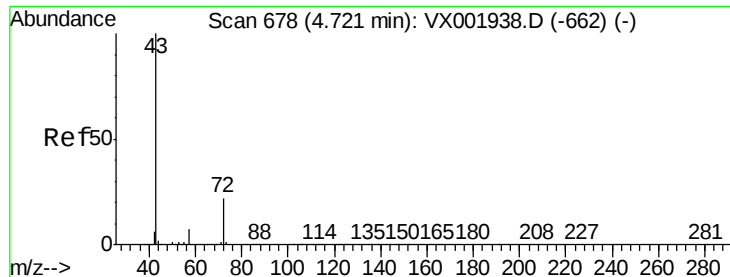
Tot Ion:	84	Resp:	181
Ion	Ratio	Lower	Upper
84	100		
49	39.3	107.2	160.8#
51	23.6	32.4	48.6#
86	0.0	50.4	75.6#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

Tgt Ion:	96	Resp:	596
Ion	Ratio	Lower	Upper
96	100		
61	116.5	113.3	169.9
98	79.6	51.7	77.5#





#25

2-Butanone

Concen: 0.48 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

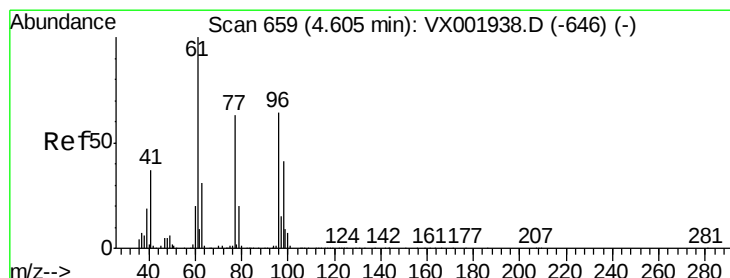
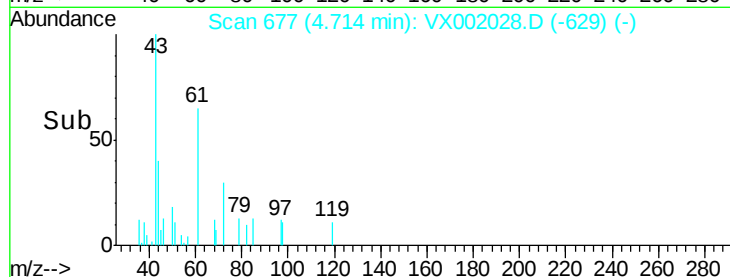
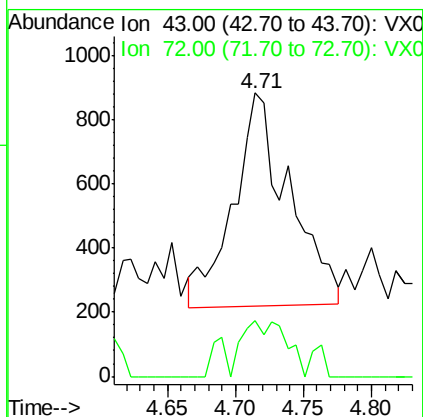
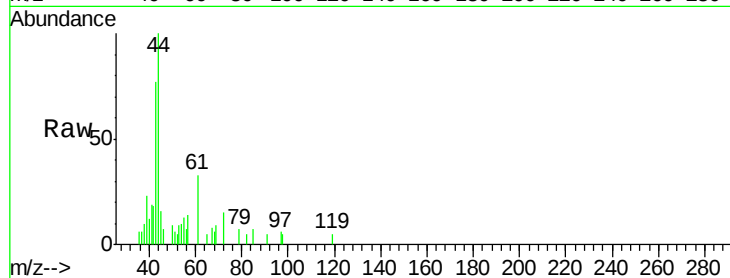
ClientSampleId :

Tot Ion: 43 Resp: 1901

Ion Ratio Lower Upper

43 100

72 28.3 17.9 26.9#



#27

cis-1,2-Dichloroethene

Concen: 2.06 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

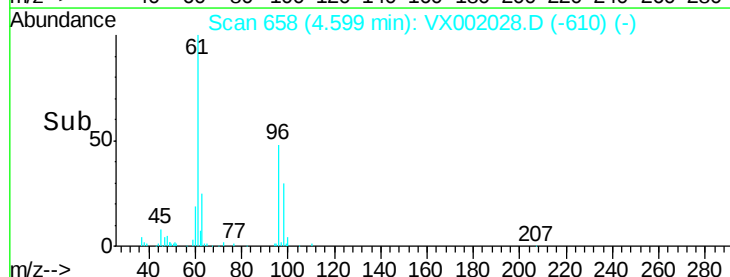
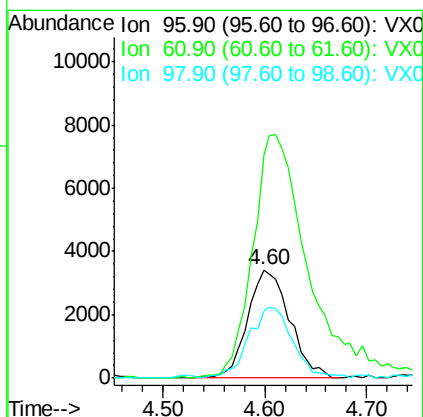
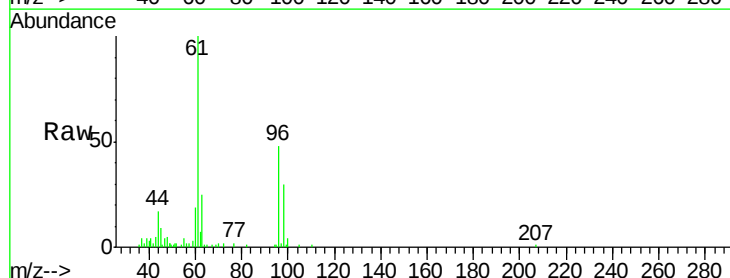
Tgt Ion: 96 Resp: 9792

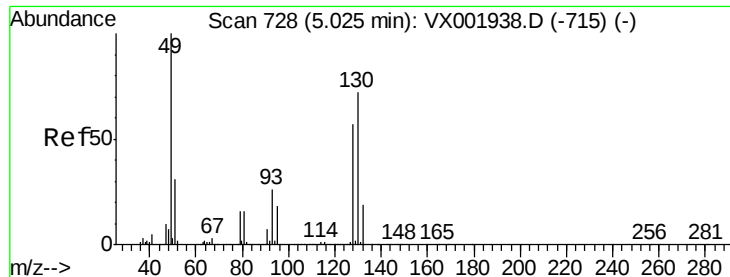
Ion Ratio Lower Upper

96 100

61 301.6 0.0 348.4

98 68.8 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.07 min Scan# 736

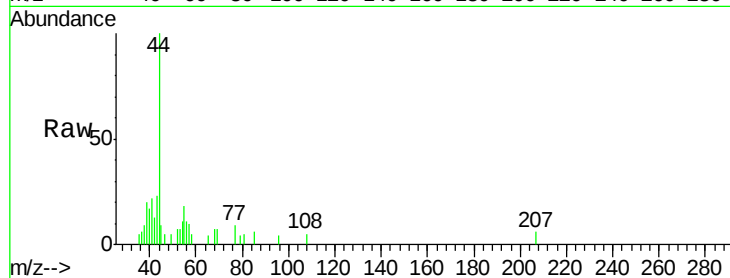
Delta R.T. 0.05 min

Lab File: VX002028.D

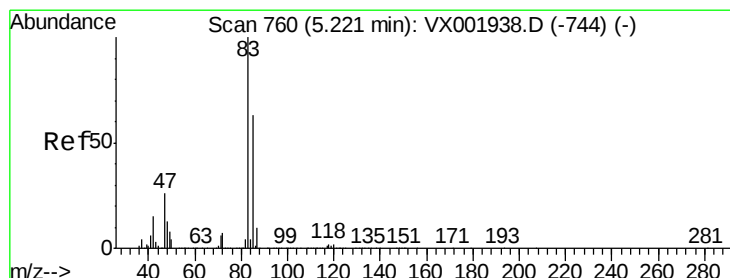
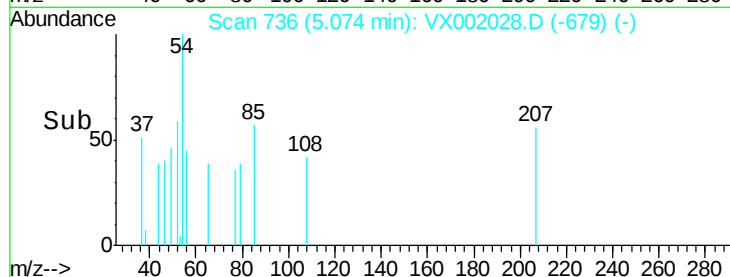
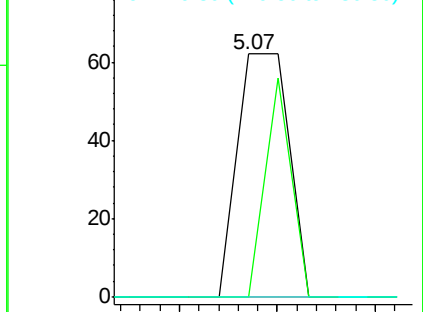
Acq: 26 May 2018 19:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 45
Ion Ratio Lower Upper
49 100
129 44.4 0.0 3.8#
130 0.0 59.4 89.2#



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



#30

Chloroform

Concen: 0.34 ug/l

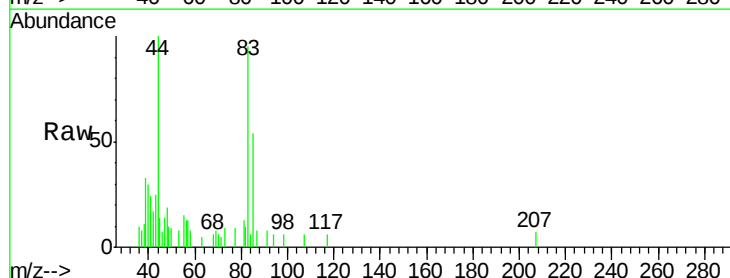
RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

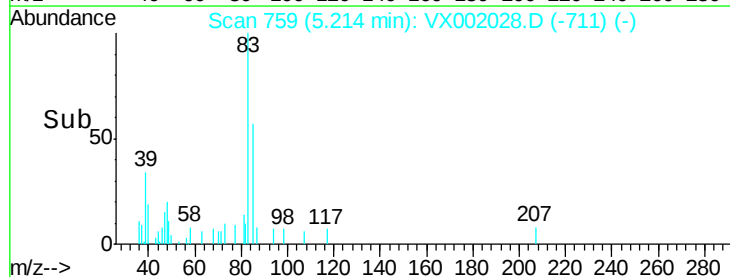
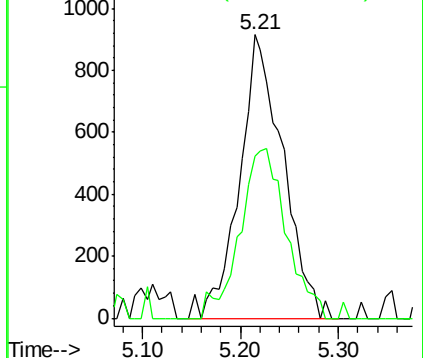
Lab File: VX002028.D

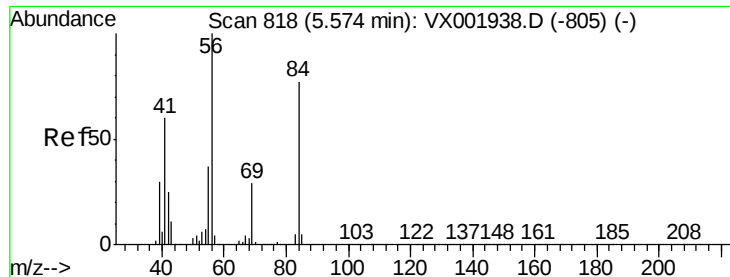
Acq: 26 May 2018 19:26

Tgt Ion: 83 Resp: 2817
Ion Ratio Lower Upper
83 100
85 57.4 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

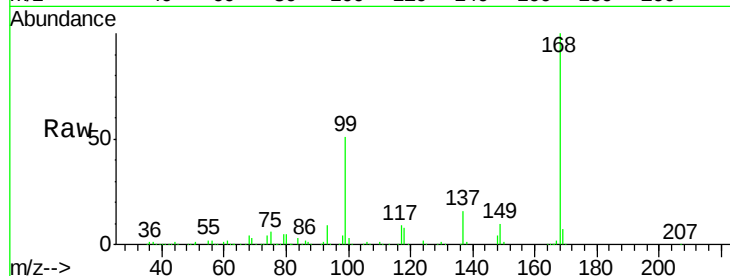




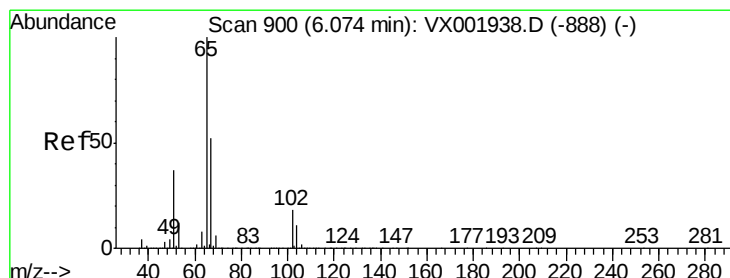
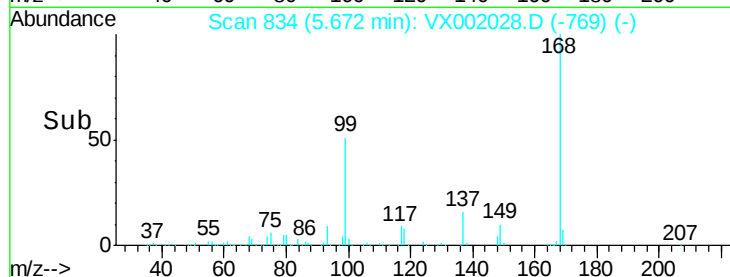
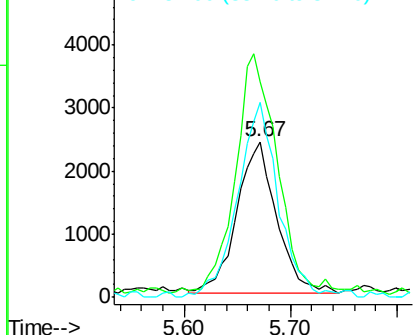
#31
Cyclohexane
Concen: 0.81 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 6248
Ion Ratio Lower Upper
56 100
69 138.0 23.1 34.7#
84 127.0 62.0 93.0#

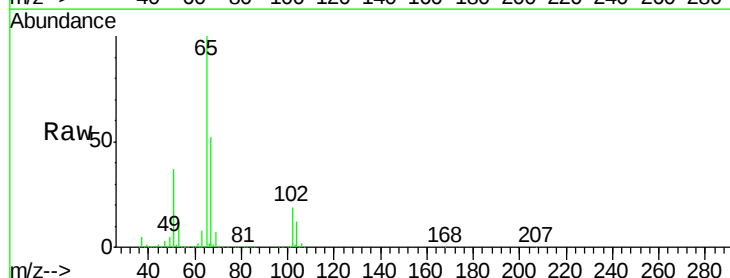


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

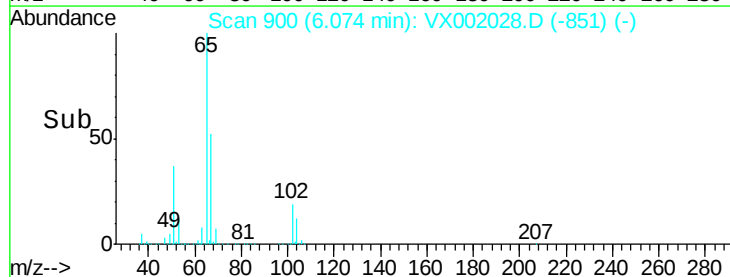
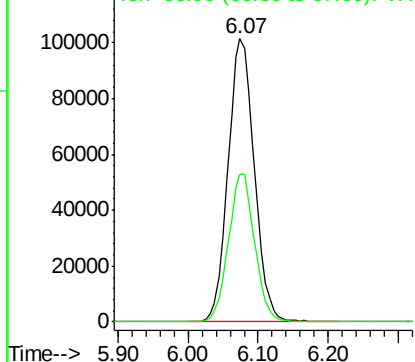


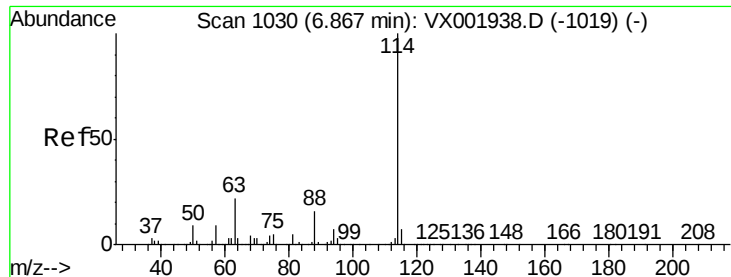
#33
1,2-Dichloroethane-d4
Concen: 47.21 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

Tgt Ion: 65 Resp: 264393
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.0



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: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

ClientSampleId :

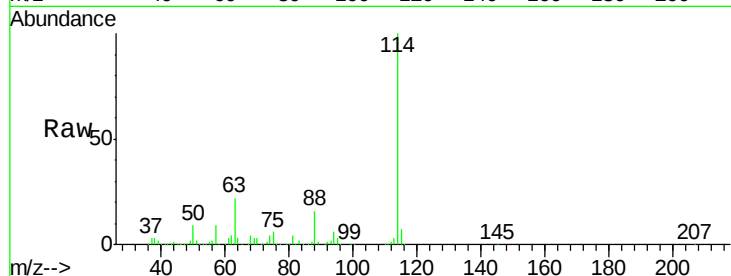
Tot Ion:114 Resp: 437092

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.2

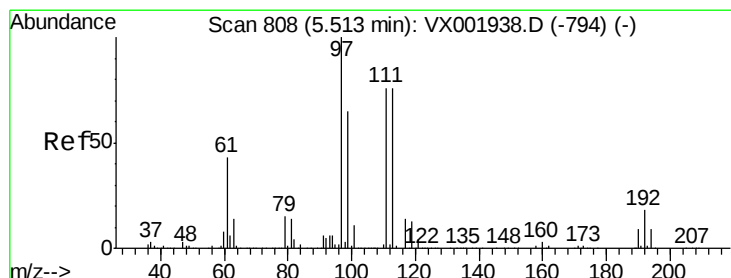
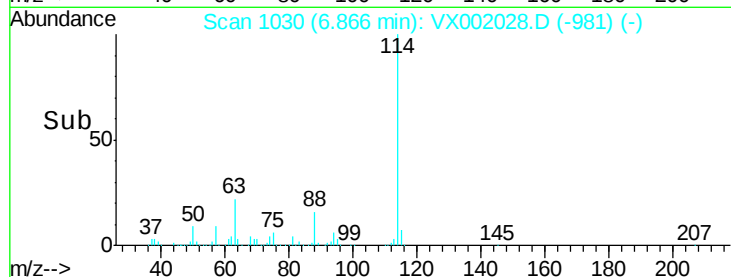
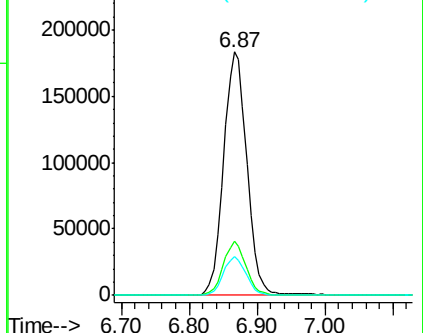
88 15.8 0.0 31.6



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: 47.16 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

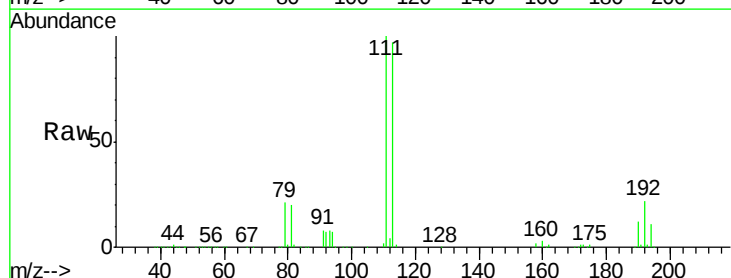
Tgt Ion:113 Resp: 206123

Ion Ratio Lower Upper

113 100

111 101.6 82.0 123.0

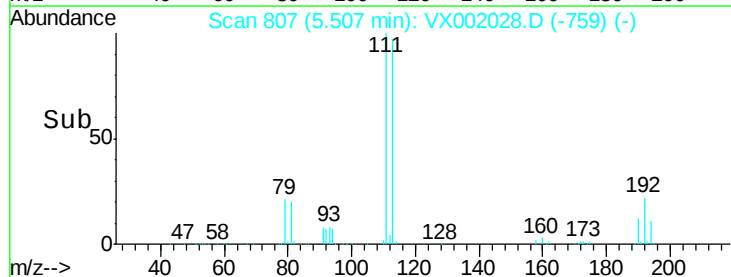
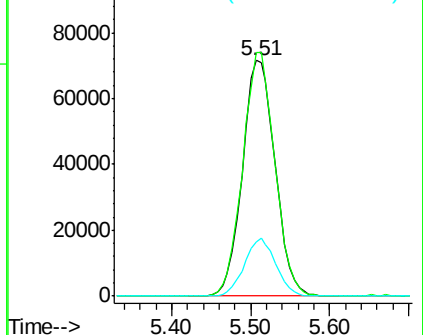
192 23.6 18.9 28.3

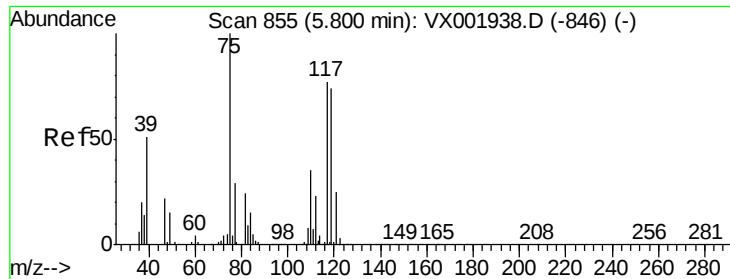


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

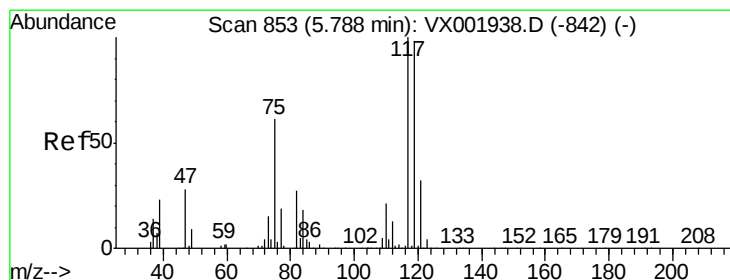
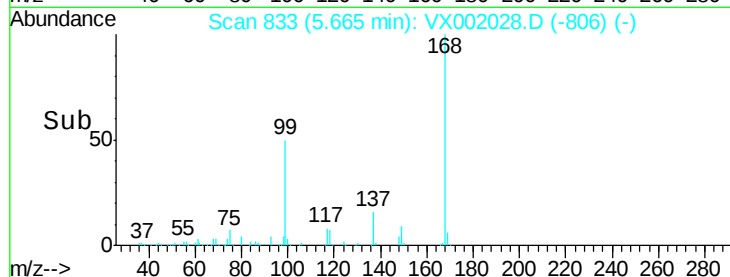
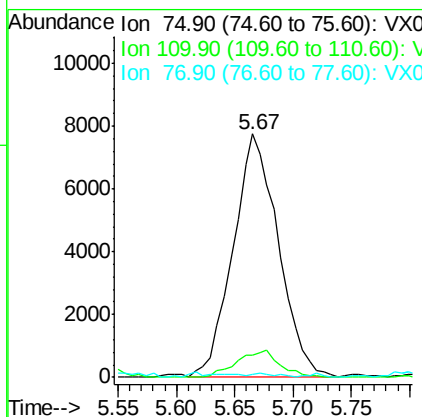
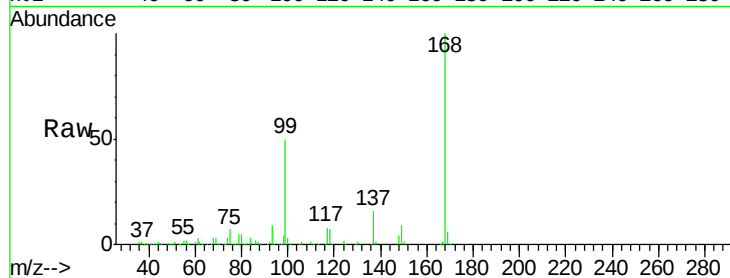




#36
 1,1-Dichloropropene
 Concen: 3.44 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002028.D
 Acq: 26 May 2018 19:26

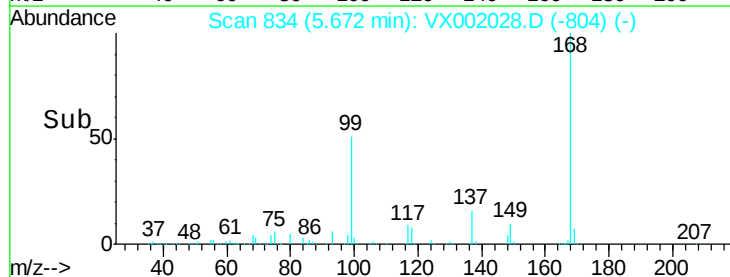
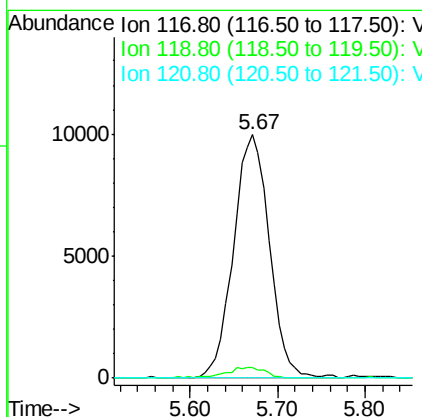
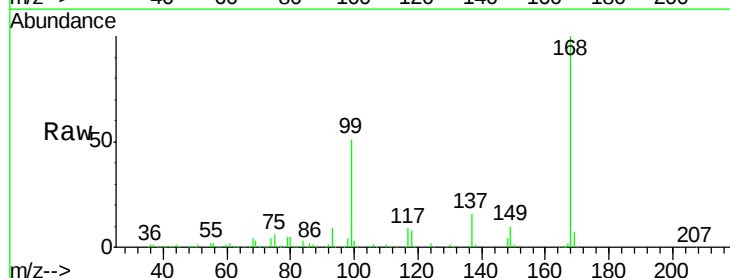
Instrument :
 MSVOA_X
 ClientSampled :

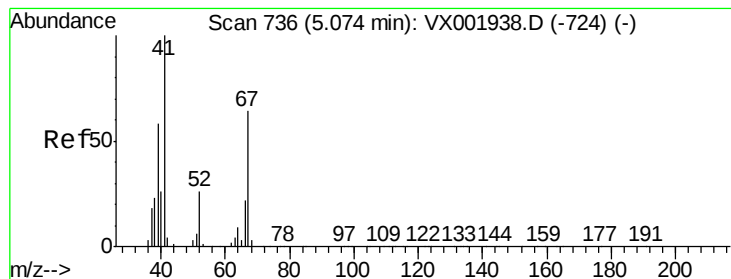
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.4	52.2#
77	0.9	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.02 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002028.D
 Acq: 26 May 2018 19:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	78.5	117.7#
121	0.0	25.5	38.3#





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.09 min Scan# 738

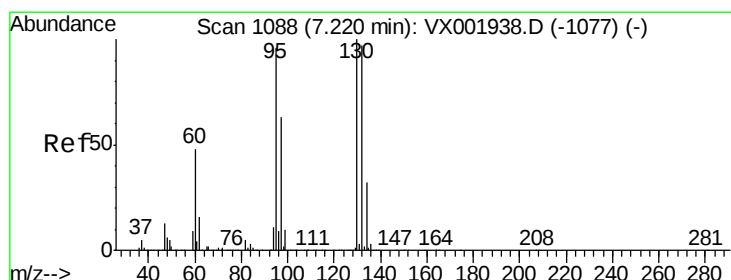
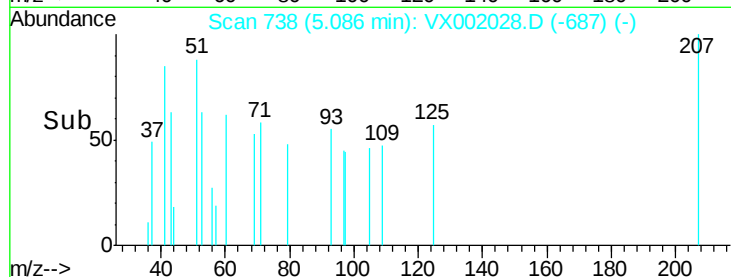
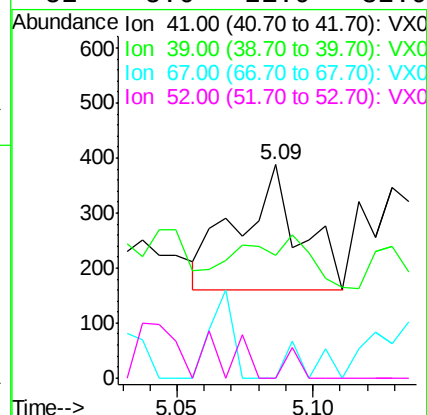
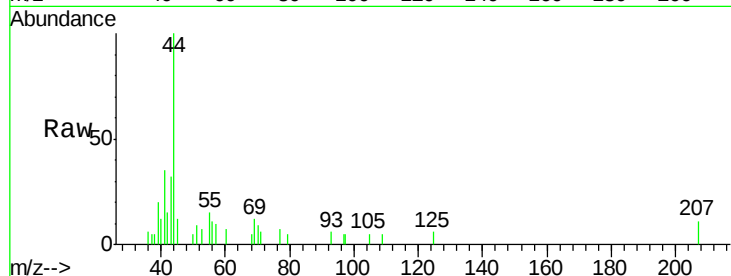
Delta R.T. 0.01 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	41	Resp:	358
Ion	Ratio	Lower	Upper
41	100		
39	46.1	46.0	69.0
67	7.0	50.6	75.8#
52	5.6	21.9	32.9#



#44

Trichloroethene

Concen: 5.48 ug/l

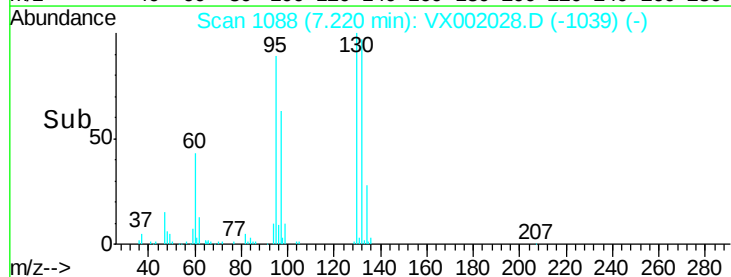
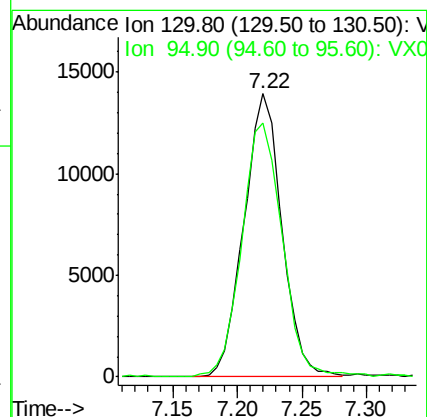
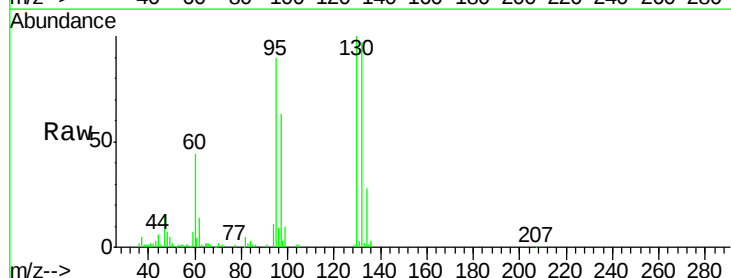
RT: 7.22 min Scan# 1088

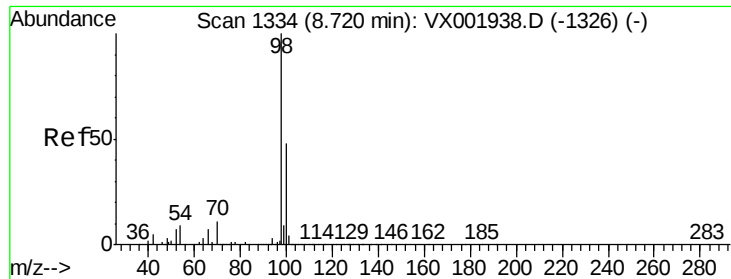
Delta R.T. -0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Tgt Ion:	130	Resp:	28455
Ion	Ratio	Lower	Upper
130	100		
95	89.6	0.0	192.0

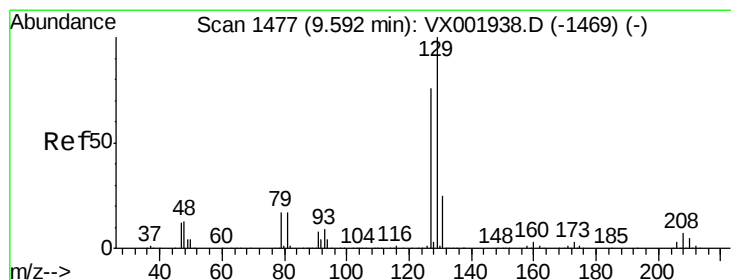
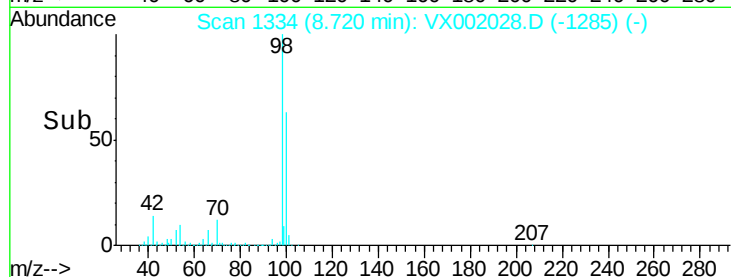
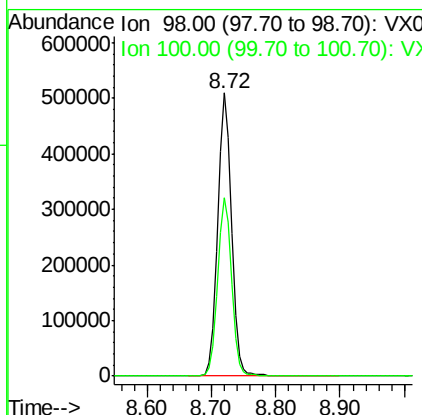
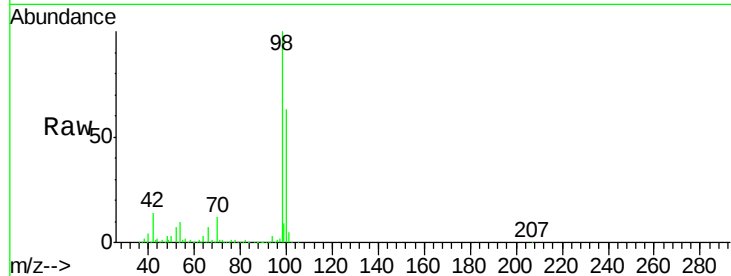




#50
Toluene-d8
Concen: 49.20 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

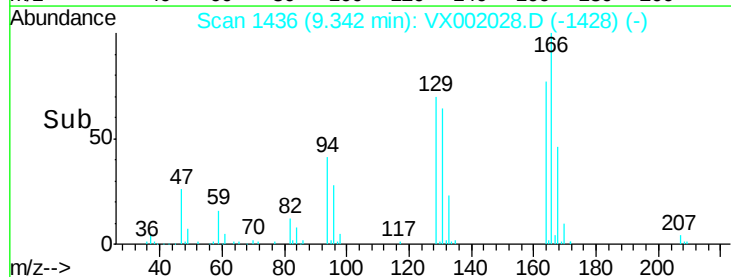
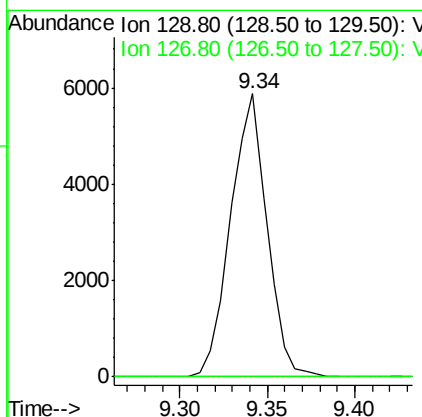
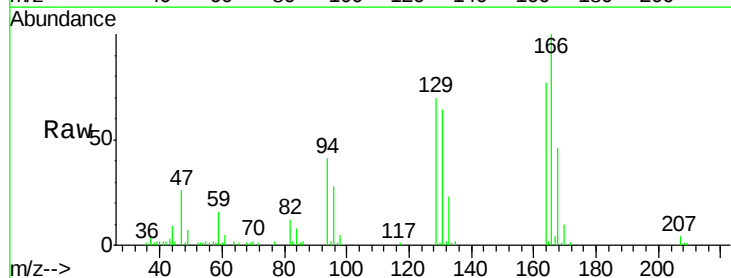
Instrument :
MSVOA_X
ClientSampleId :

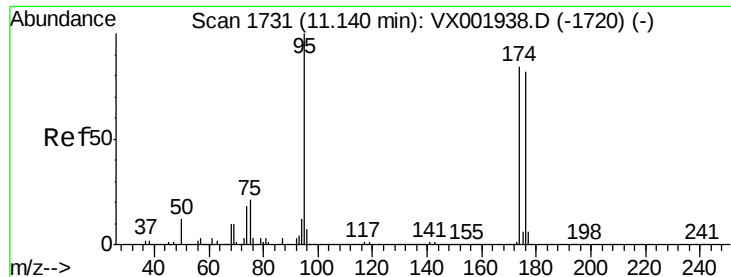
Tot Ion: 98 Resp: 778513
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



#60
Dibromochloromethane
Concen: 1.52 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

Tgt Ion: 129 Resp: 8507
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#





#62

4-Bromofluorobenzene

Concen: 44.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

ClientSampleId :

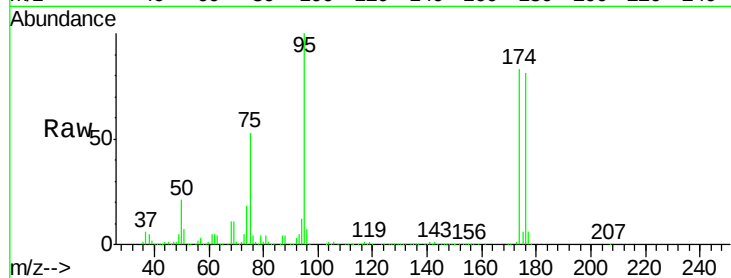
Tot Ion: 95 Resp: 277112

Ion Ratio Lower Upper

95 100

174 90.8 0.0 178.8

176 88.6 0.0 175.6

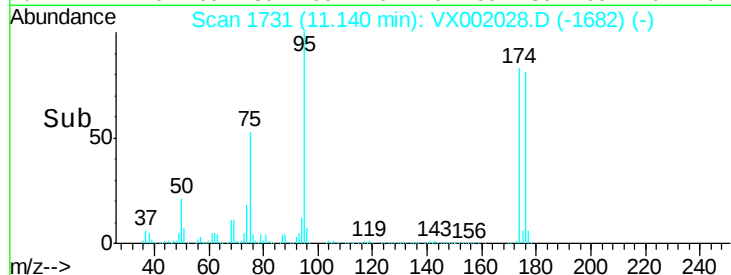


Abundance Ion 94.90 (94.60 to 95.60): VX001938.D (-1720) (-)

Ion 173.80 (173.50 to 174.50): VX001938.D (-1720) (-)

Ion 175.80 (175.50 to 176.50): VX001938.D (-1720) (-)

Time-->



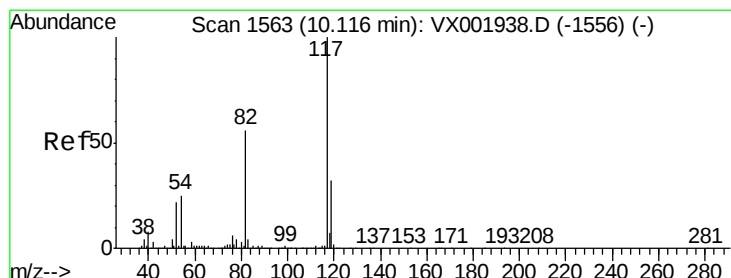
Abundance

Ion 94.90 (94.60 to 95.60): VX002028.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002028.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002028.D (-1682) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

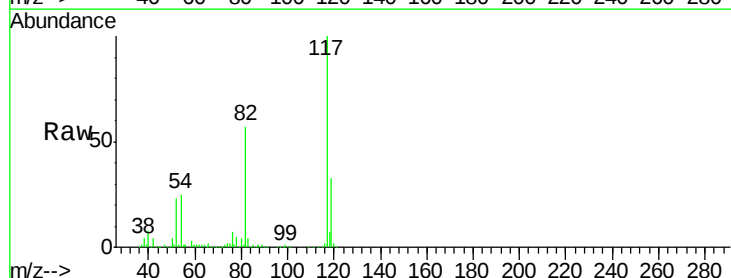
Tgt Ion: 117 Resp: 389406

Ion Ratio Lower Upper

117 100

82 57.1 44.8 67.2

119 32.6 25.5 38.3

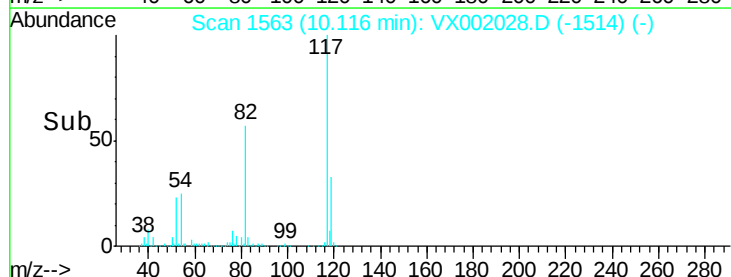


Abundance Ion 116.90 (116.60 to 117.60): VX001938.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX001938.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX001938.D (-1556) (-)

Time-->



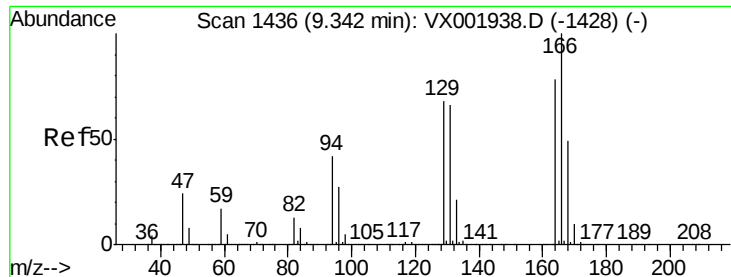
Abundance

Ion 116.90 (116.60 to 117.60): VX002028.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002028.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002028.D (-1514) (-)

Time-->



#64

Tetrachloroethene

Concen: 1.69 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 9436

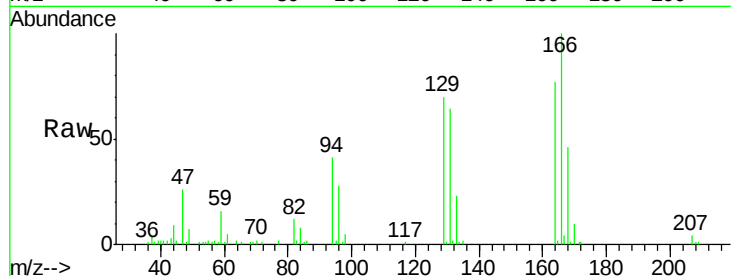
Ion Ratio Lower Upper

164 100

166 129.1 102.7 154.1

129 89.9 70.3 105.5

131 82.6 68.2 102.4

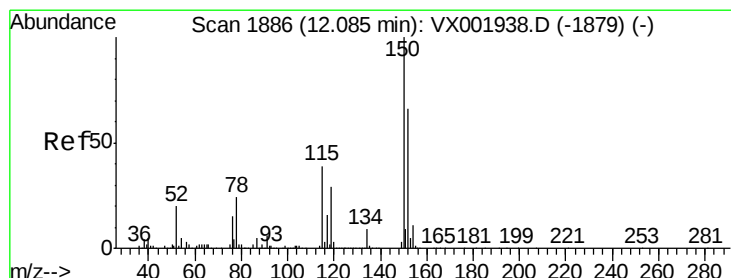
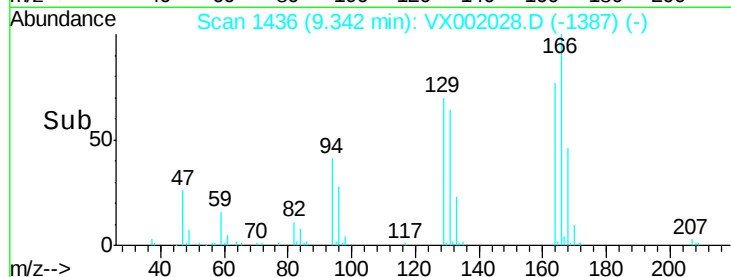
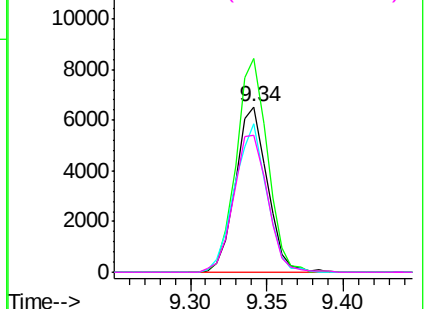


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

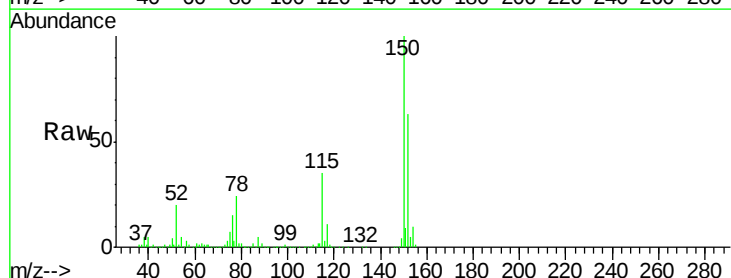
Tgt Ion:152 Resp: 212025

Ion Ratio Lower Upper

152 100

115 56.0 42.3 126.8

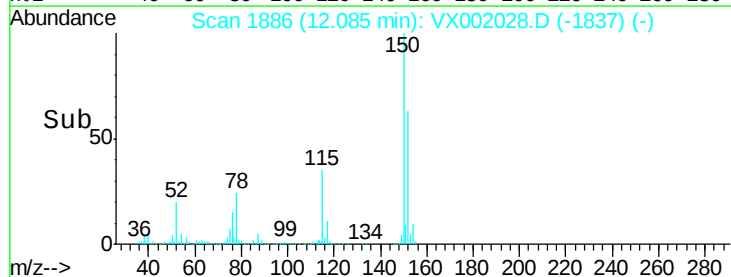
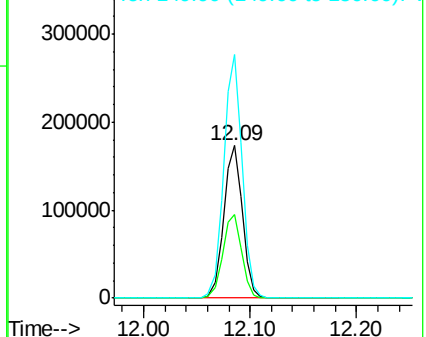
150 157.2 0.0 351.0

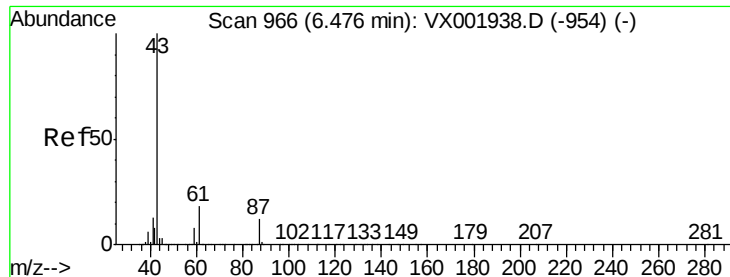


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

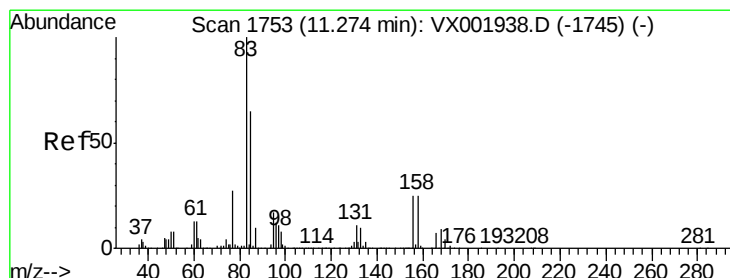
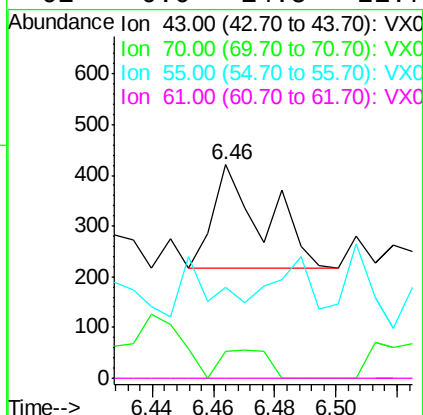
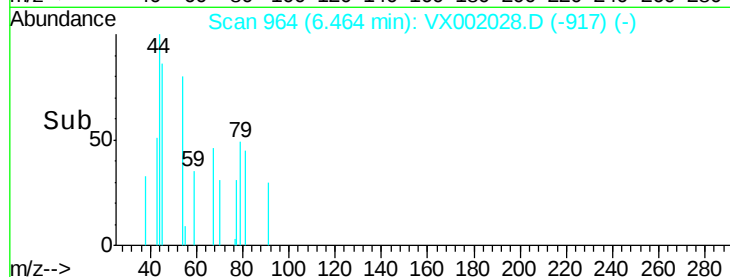
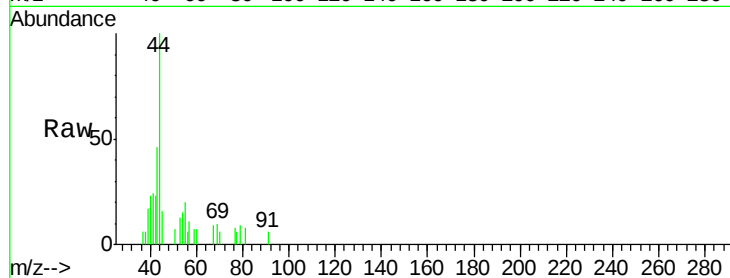




#74
N-amvl acetate
Concen: Below Cal
RT: 6.46 min Scan# 964
Delta R.T. -0.01 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

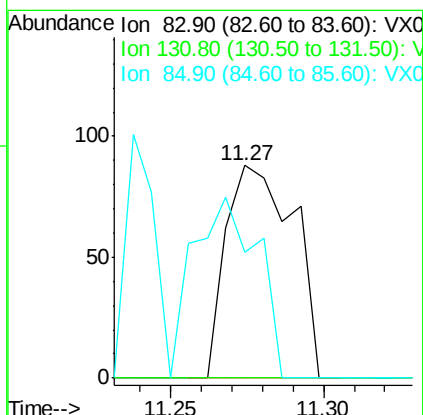
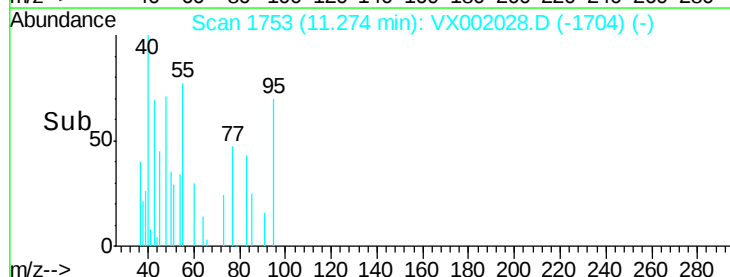
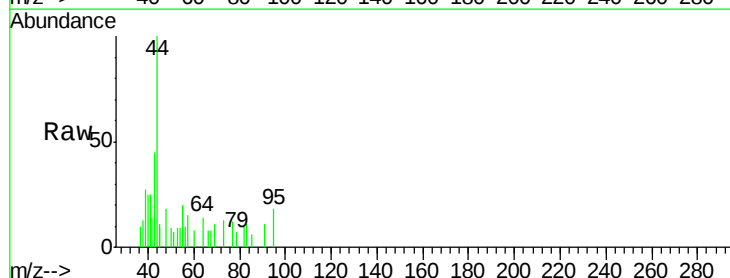
Instrument :
MSVOA_X
ClientSampled :

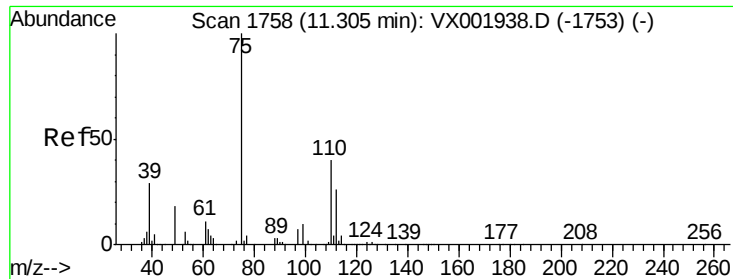
Tot Ion: 43 Resp: 237
Ion Ratio Lower Upper
43 100
70 24.9 0.1 0.1#
55 35.4 0.1 0.1#
61 0.0 14.5 21.7#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 11.27 min Scan# 1753
Delta R.T. 0.00 min
Lab File: VX002028.D
Acq: 26 May 2018 19:26

Tgt Ion: 83 Resp: 135
Ion Ratio Lower Upper
83 100
131 0.0 5.7 17.0#
85 80.7 32.6 97.7

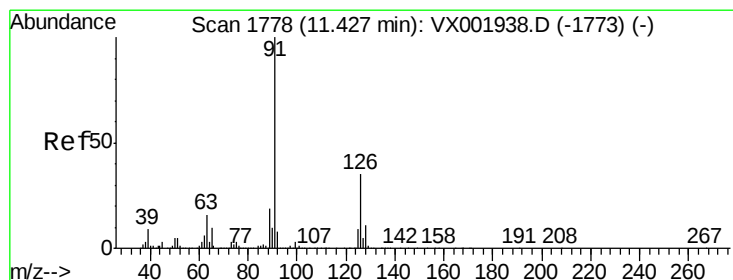
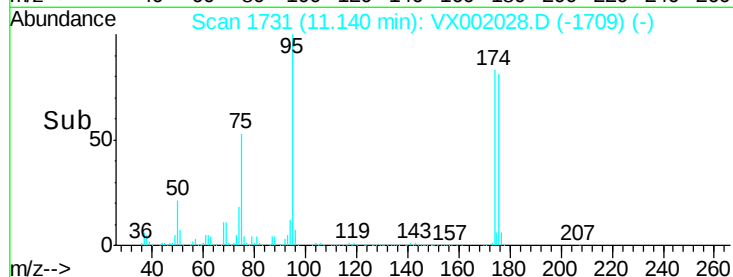
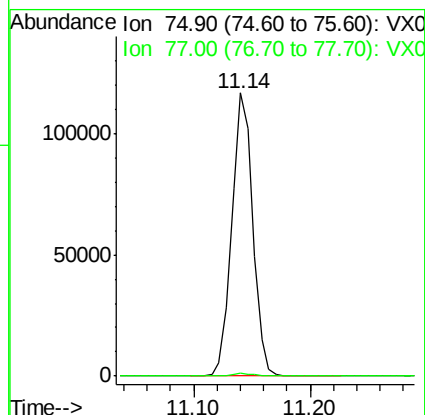
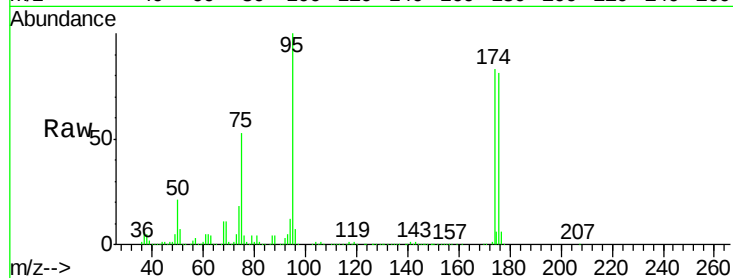




#76
 1,2,3-Trichloropropane
 Concen: 28.72 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002028.D
 Acq: 26 May 2018 19:26

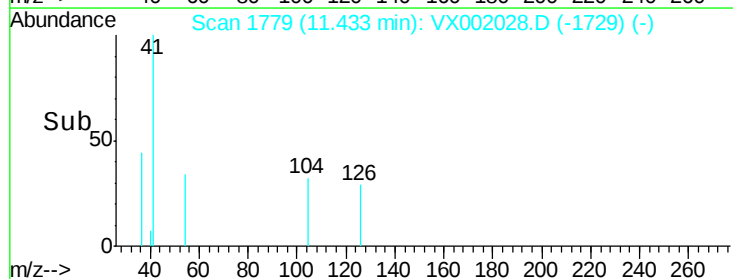
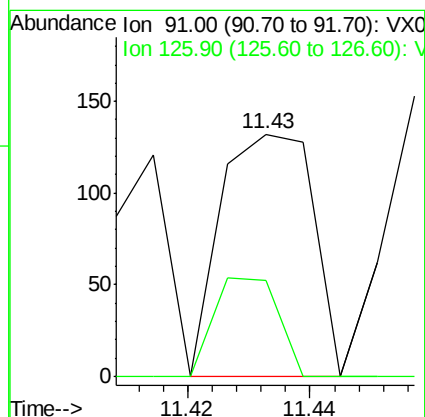
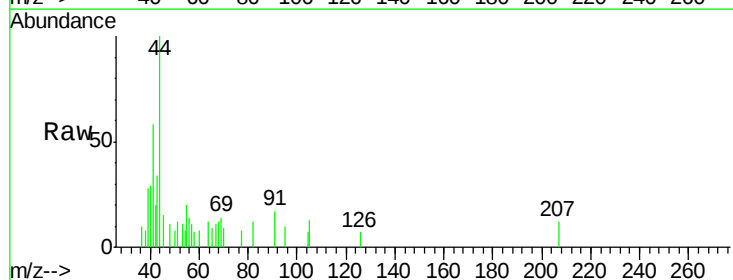
Instrument :
 MSVOA_X
 ClientSampleId :

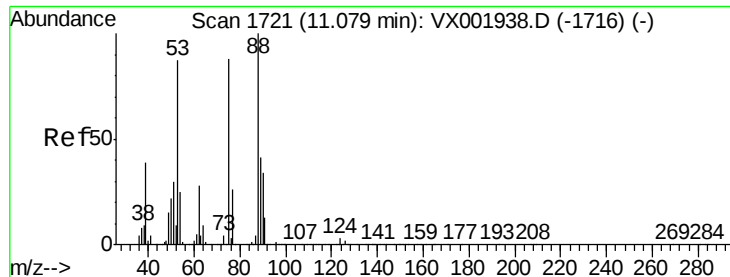
Tot Ion: 75 Resp: 146270
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.43 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: VX002028.D
 Acq: 26 May 2018 19:26

Tgt Ion: 91 Resp: 138
 Ion Ratio Lower Upper
 91 100
 126 28.3 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 69.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002028.D

Acq: 26 May 2018 19:26

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 146270

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

