

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002082.D
 Acq On : 27 May 2018 21:17
 Operator : JC/MD
 Sample : J3114-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 03:02:16 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	329299	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	463192	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	431518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	248140	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	216787	36.83	ug/l	0.00
Spiked Amount			Recovery	=	73.66%	
35) Dibromofluoromethane	5.51	113	168973	36.48	ug/l	0.00
Spiked Amount			Recovery	=	72.96%	
50) Toluene-d8	8.72	98	666613	39.75	ug/l	0.00
Spiked Amount			Recovery	=	79.50%	
62) 4-Bromofluorobenzene	11.14	95	247081	37.66	ug/l	0.00
Spiked Amount			Recovery	=	75.32%	

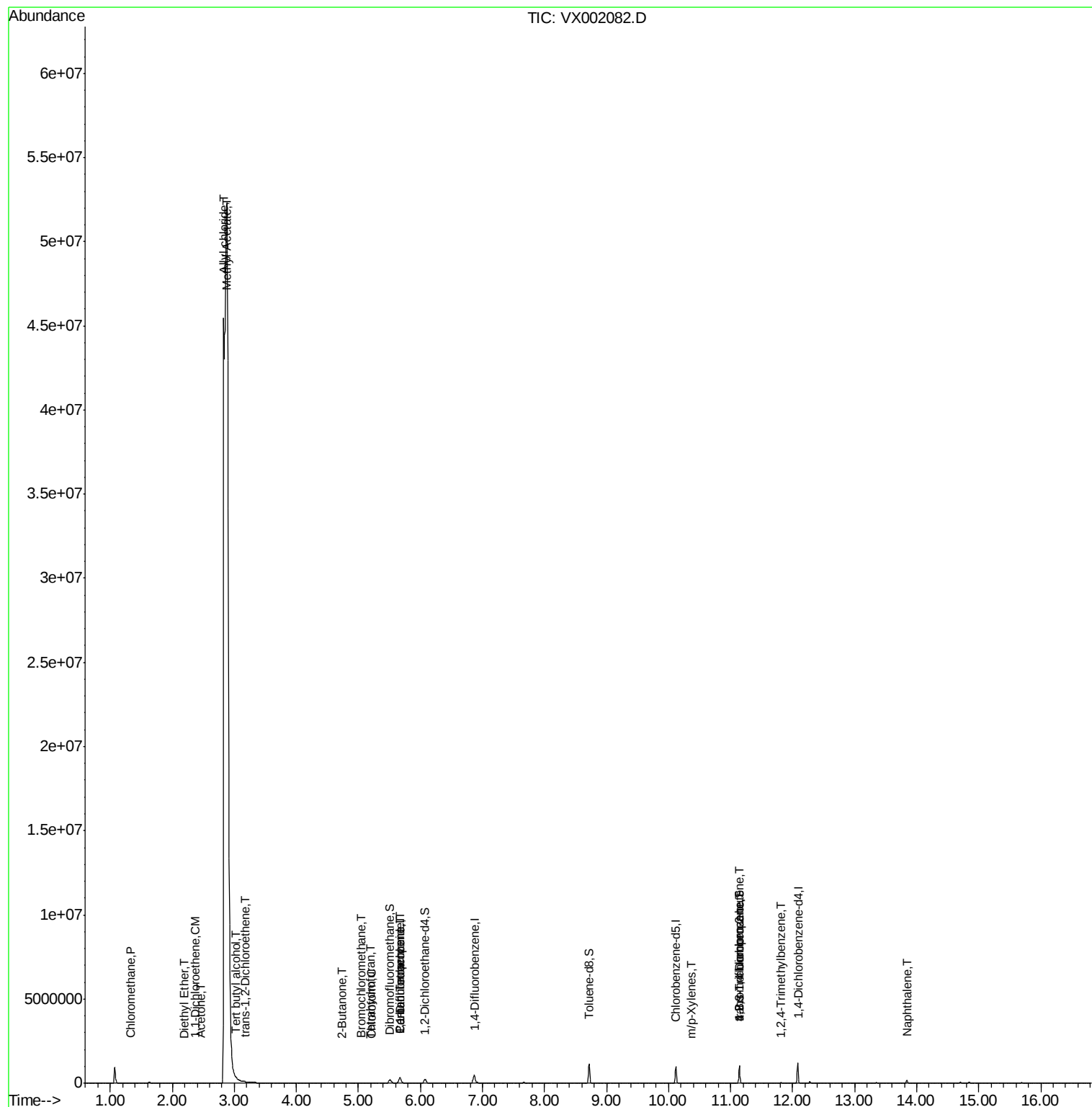
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	80	Below Cal	#	41
3) Chloromethane	1.32	50	11814	2.33	ug/l	94
5) Bromomethane	1.64	94	482	Below Cal		93
8) Diethyl Ether	2.20	74	747	0.28	ug/l	79
11) Tert butyl alcohol	3.03	59	3845	3.33	ug/l	# 86
12) 1,1-Dichloroethene	2.37	96	2579	0.67	ug/l	89
14) Allyl chloride	2.82	41	388534	48.22	ug/l	# 28
16) Acetone	2.45	43	18557	8.17	ug/l	95
18) Methyl Acetate	2.89	43	270633	49.44	ug/l	# 85
21) trans-1,2-Dichloroethene	3.17	96	7390	0.41	ug/l	88
25) 2-Butanone	4.73	43	4620	1.11	ug/l	96
28) Bromochloromethane	5.04	49	23071	5.22	ug/l	98
29) Tetrahydrofuran	5.18	42	917	0.34	ug/l	# 80
30) Chloroform	5.22	83	5485	0.63	ug/l	97
36) 1,1-Dichloropropene	5.67	75	23034	3.58	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	30413	4.05	ug/l	# 14
41) Methacrylonitrile	5.07	41	126	Below Cal	#	22
68) m/p-Xylenes	10.36	106	1883	0.21	ug/l	90
74) N-amyl acetate	6.46	43	411	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.29	83	86	Below Cal	#	71
76) 1,2,3-Trichloropropane	11.14	75	129003	21.64	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	1813	Below Cal	#	56
81) trans-1,4-Dichloro-2-buten	11.14	75	129003	52.02	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	12339	0.66	ug/l	97
95) Naphthalene	13.84	128	98485	4.39	ug/l	99

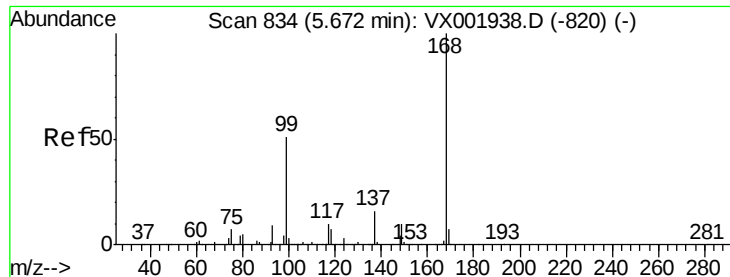
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

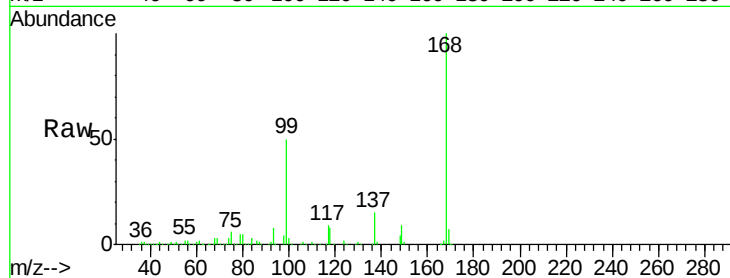
ClientSampleId :

Tot Ion:168 Resp: 329299

Ion Ratio Lower Upper

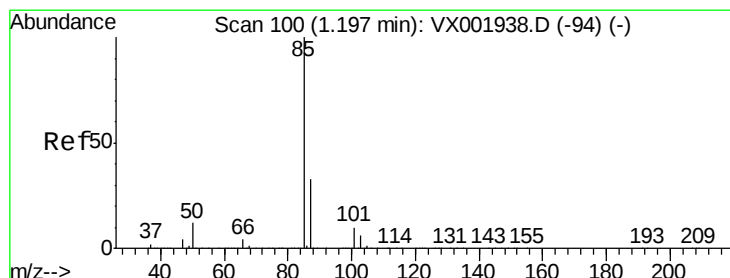
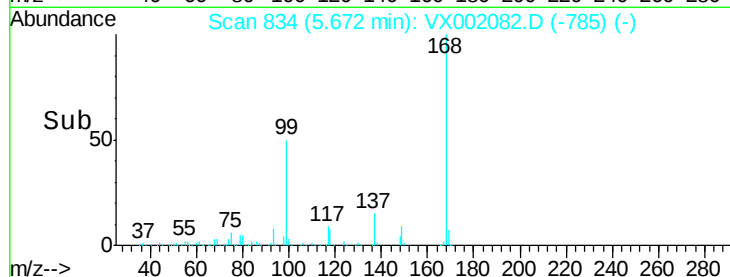
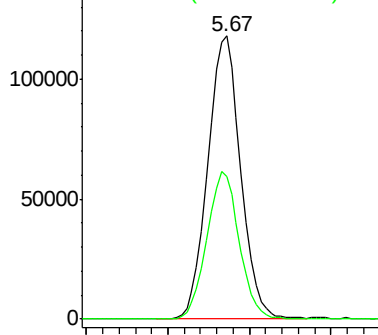
168 100

99 50.3 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002082.D

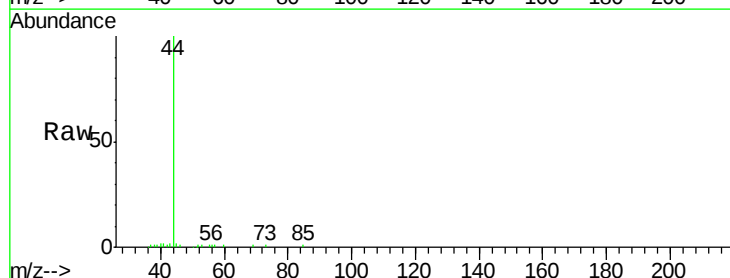
Acq: 27 May 2018 21:17

Tgt Ion: 85 Resp: 80

Ion Ratio Lower Upper

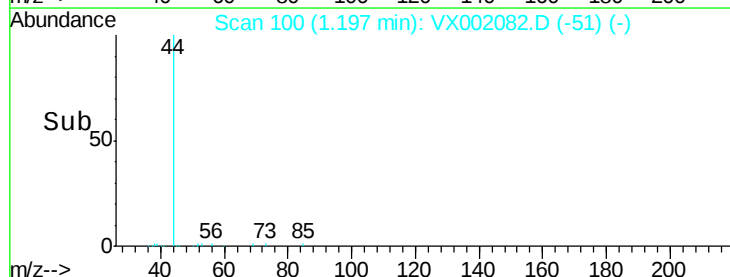
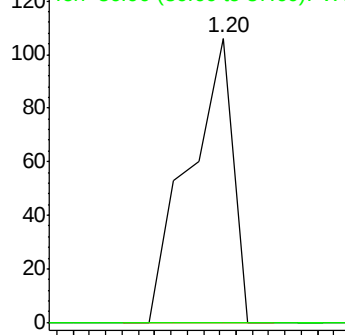
85 100

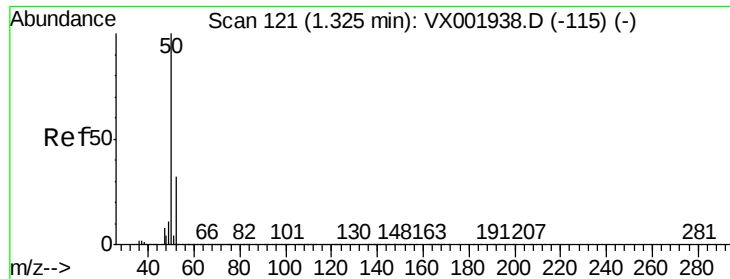
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 2.33 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

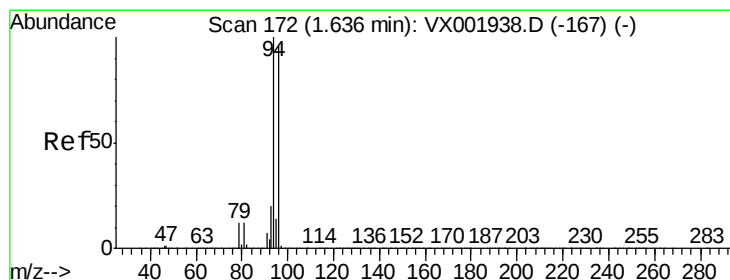
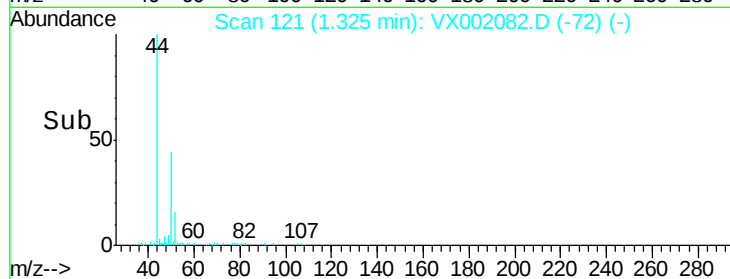
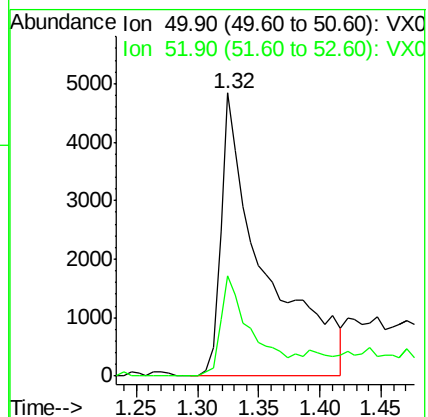
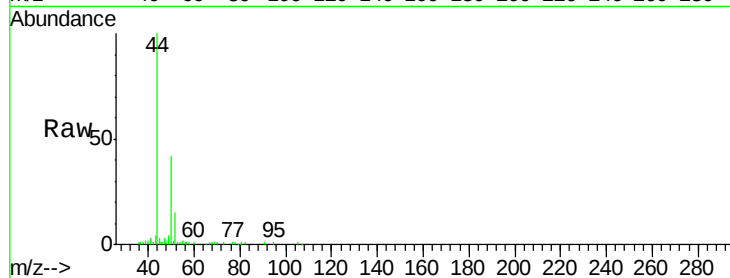
ClientSampled :

Tot Ion: 50 Resp: 11814

Ion Ratio Lower Upper

50 100

52 35.6 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX002082.D

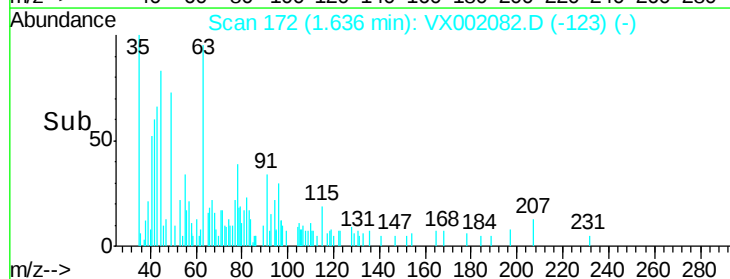
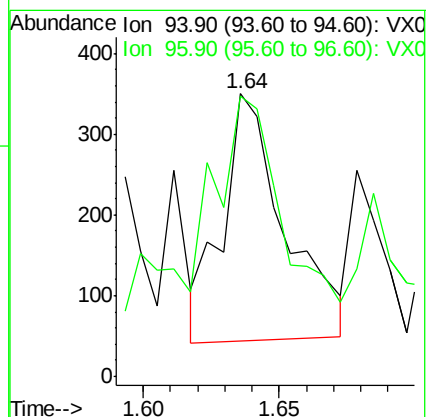
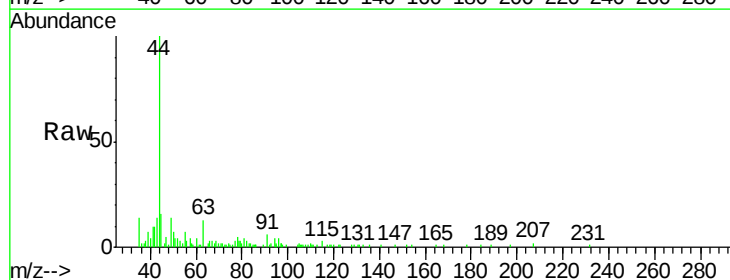
Acq: 27 May 2018 21:17

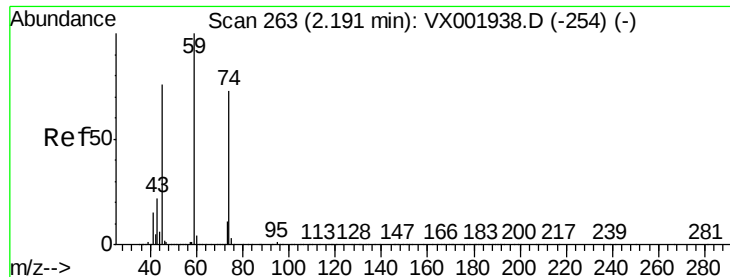
Tgt Ion: 94 Resp: 482

Ion Ratio Lower Upper

94 100

96 102.0 75.9 113.9





#8

Diethyl Ether

Concen: 0.28 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

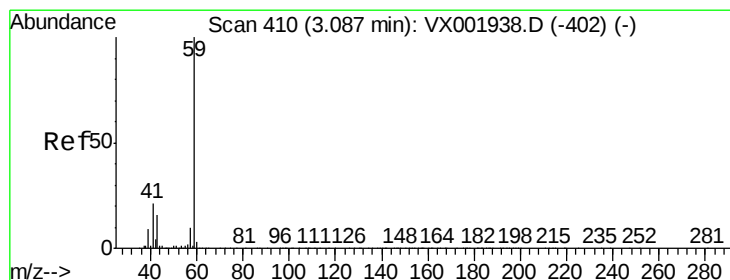
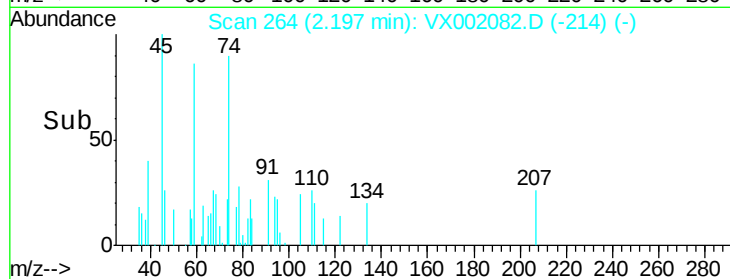
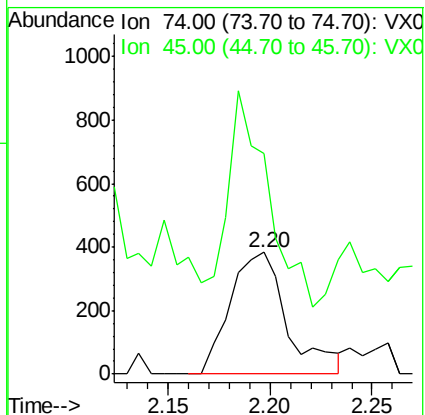
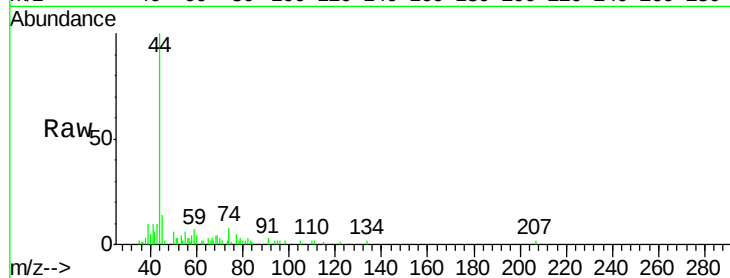
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 74 Resp: 747

Ion Ratio Lower Upper

74 100

45 124.5 51.5 154.7



#11

Tert butyl alcohol

Concen: 3.33 ug/l

RT: 3.03 min Scan# 401

Delta R.T. -0.05 min

Lab File: VX002082.D

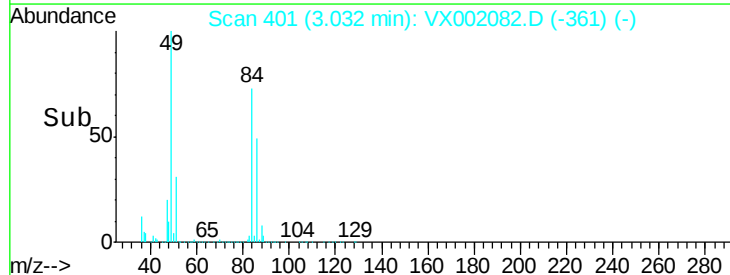
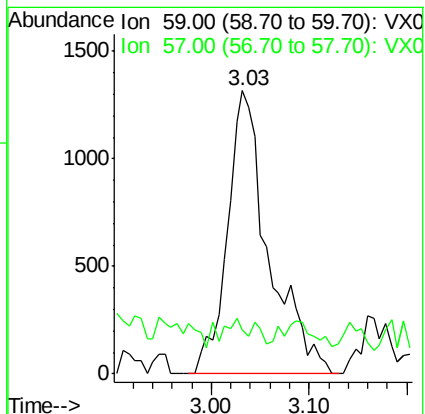
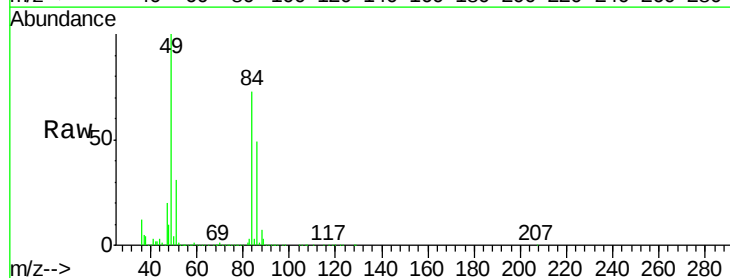
Acq: 27 May 2018 21:17

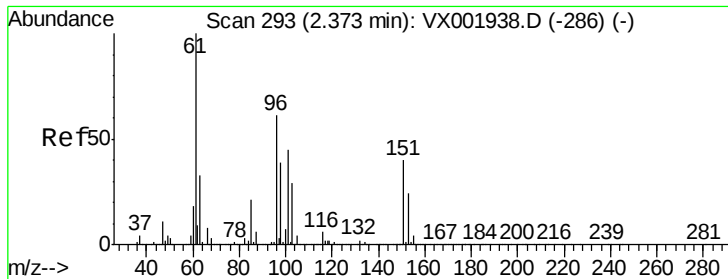
Tgt Ion: 59 Resp: 3845

Ion Ratio Lower Upper

59 100

57 5.7 8.9 13.3#





#12

1,1-Dichloroethene

Concen: 0.67 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :
MSVOA_X
ClientSampleId :

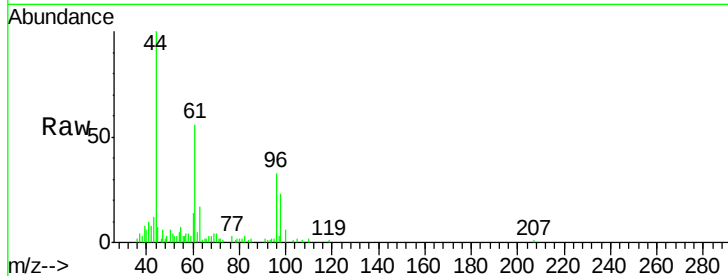
Tot Ion: 96 Resp: 2579

Ion Ratio Lower Upper

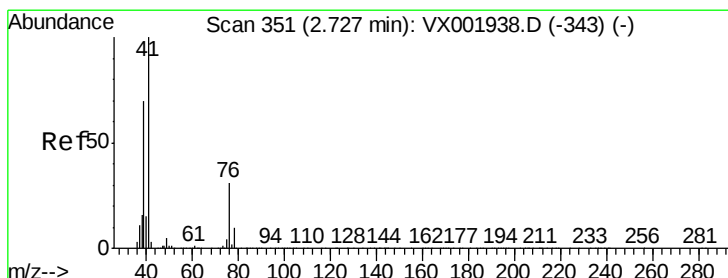
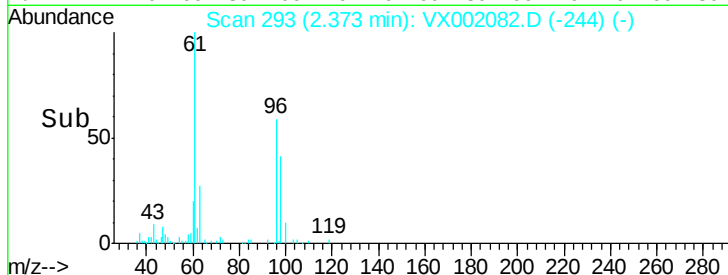
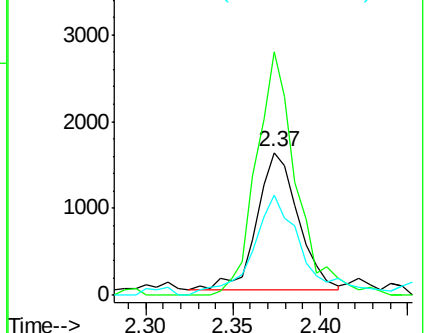
96 100

61 178.5 131.7 197.5

98 73.7 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



#14

Allyl chloride

Concen: 48.22 ug/l

RT: 2.82 min Scan# 367

Delta R.T. 0.10 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

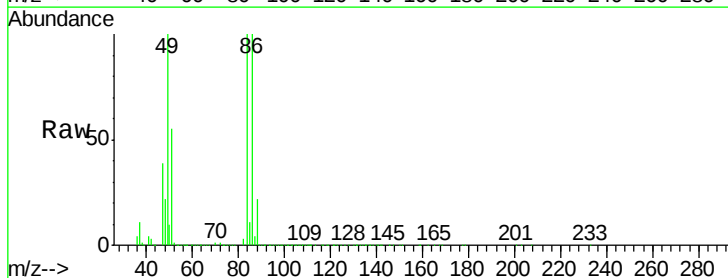
Tgt Ion: 41 Resp: 388534

Ion Ratio Lower Upper

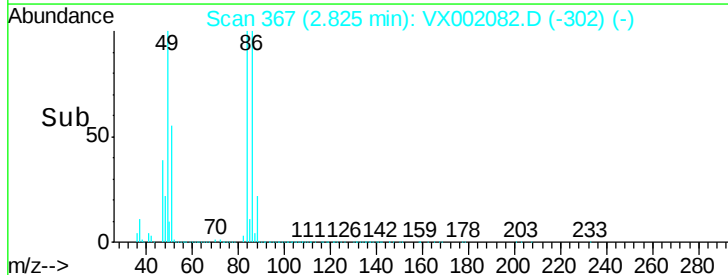
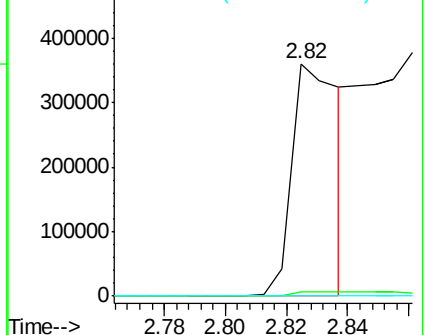
41 100

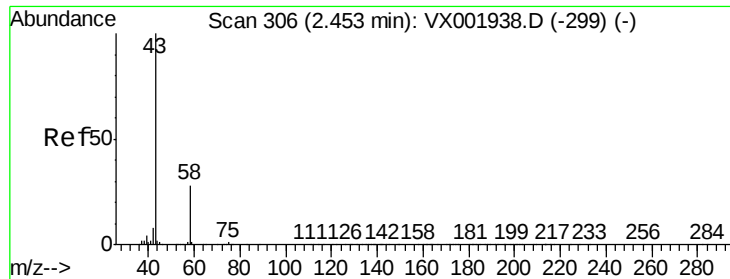
39 3.9 54.3 81.5#

76 0.1 24.2 36.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 75.90 (75.60 to 76.60): VX0

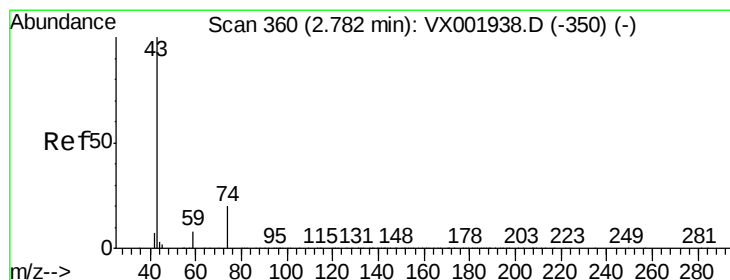
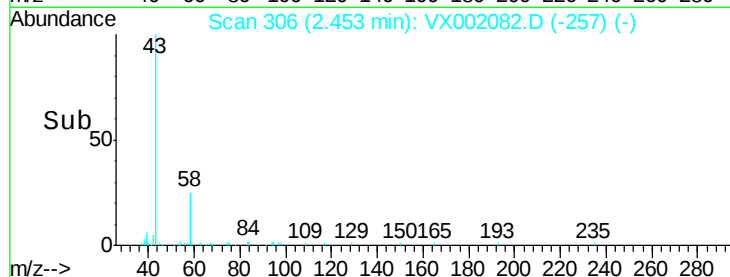
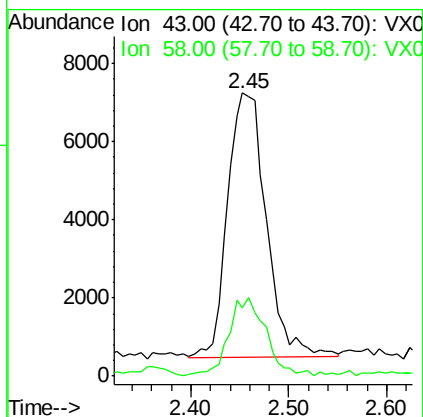
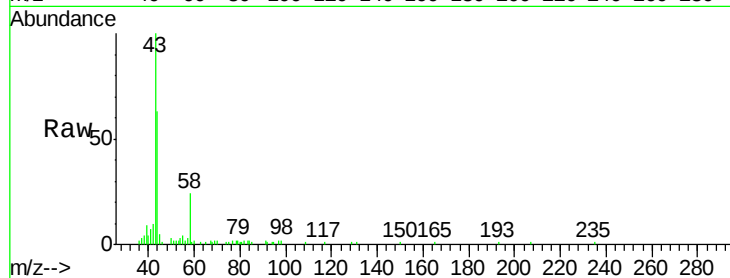




#16
Acetone
Concen: 8.17 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX002082.D
Acq: 27 May 2018 21:17

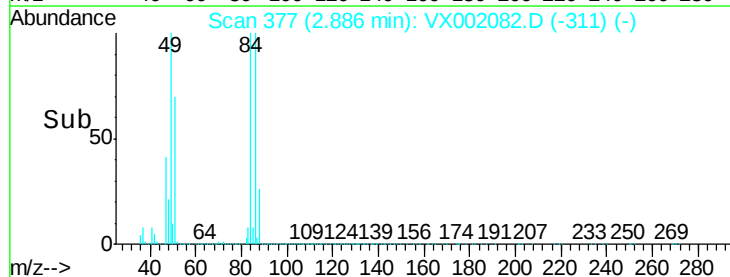
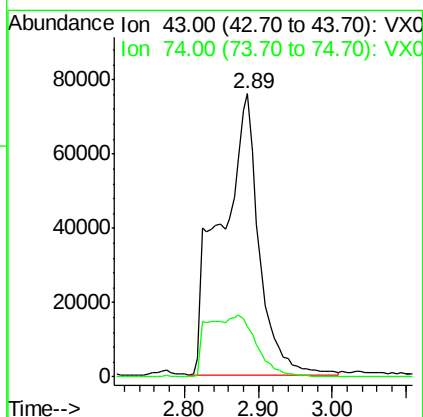
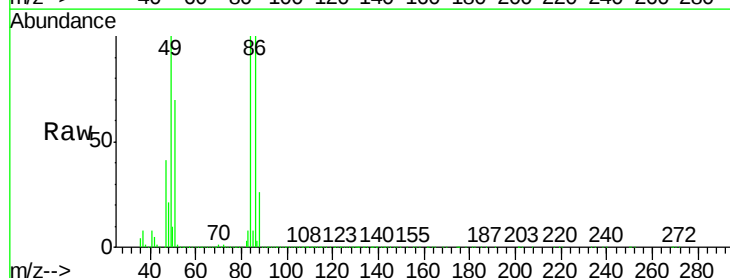
Instrument :
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ClientSampleId :

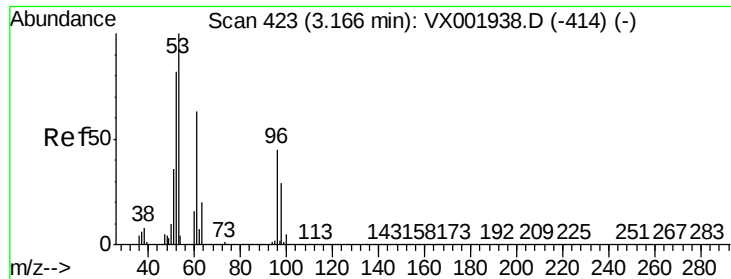
Tot Ion: 43 Resp: 18557
Ion Ratio Lower Upper
43 100
58 25.2 22.3 33.5



#18
Methyl Acetate
Concen: 49.44 ug/l
RT: 2.89 min Scan# 377
Delta R.T. 0.10 min
Lab File: VX002082.D
Acq: 27 May 2018 21:17

Tgt Ion: 43 Resp: 270633
Ion Ratio Lower Upper
43 100
74 28.1 16.8 25.2#





#21

trans-1,2-Dichloroethene

Concen: 0.41 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

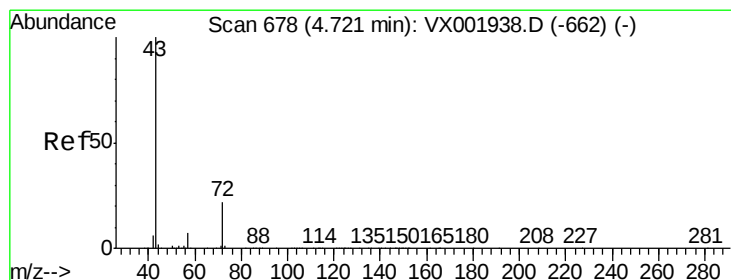
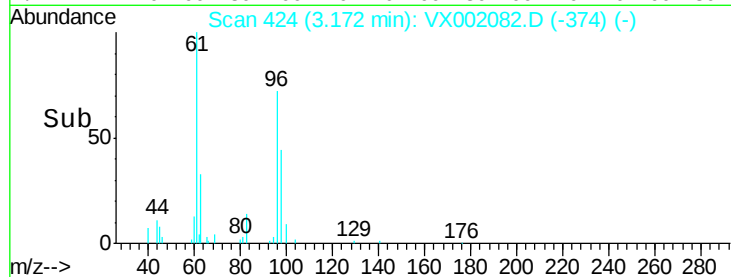
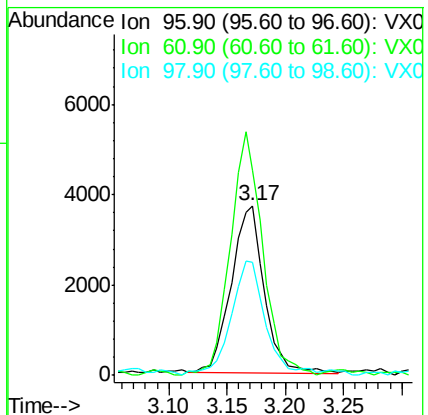
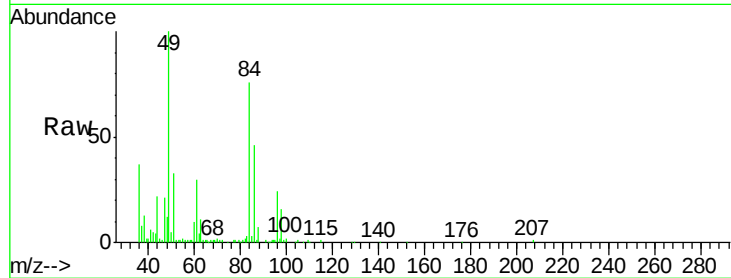
Tot Ion: 96 Resp: 7390

Ion Ratio Lower Upper

96 100

61 120.4 113.3 169.9

98 65.2 51.7 77.5



#25

2-Butanone

Concen: 1.11 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX002082.D

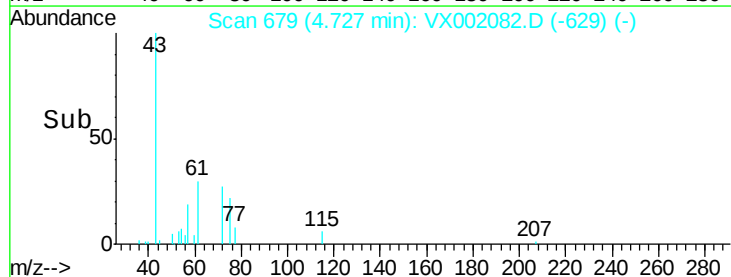
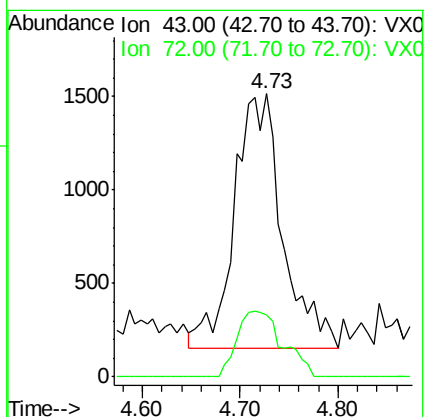
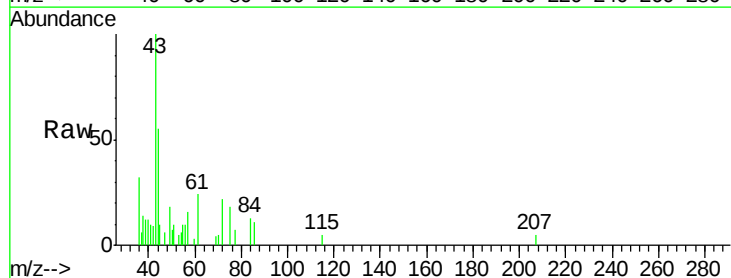
Acq: 27 May 2018 21:17

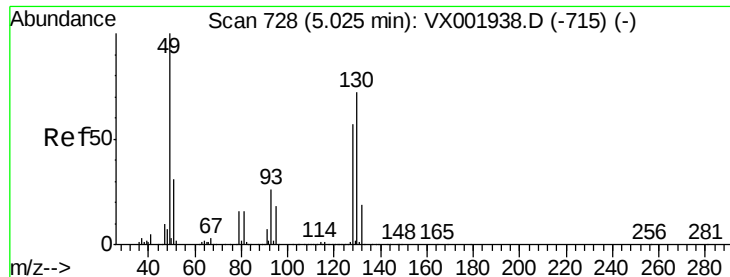
Tgt Ion: 43 Resp: 4620

Ion Ratio Lower Upper

43 100

72 24.2 17.9 26.9





#28

Bromochloromethane

Concen: 5.22 ug/l

RT: 5.04 min Scan# 731

Delta R.T. 0.02 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :
MSVOA_X
ClientSampleId :

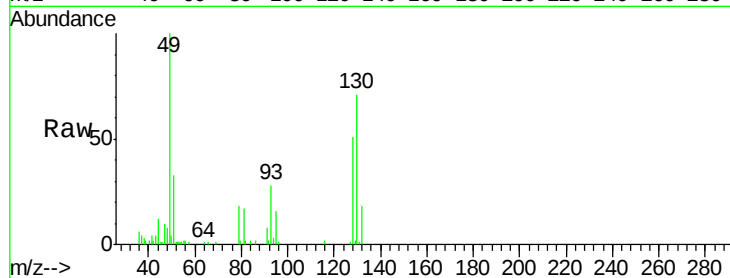
Tot Ion: 49 Resp: 23071

Ion Ratio Lower Upper

49 100

129 1.0 0.0 3.8

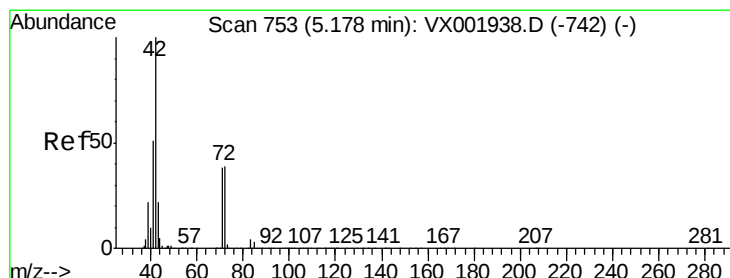
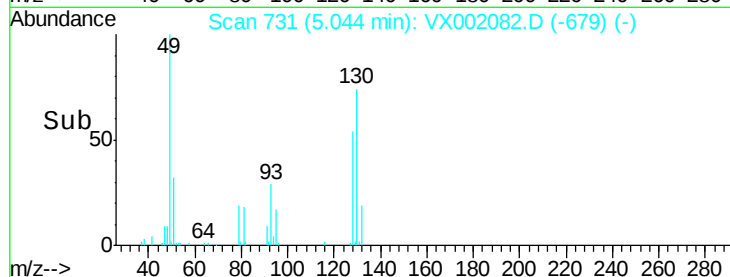
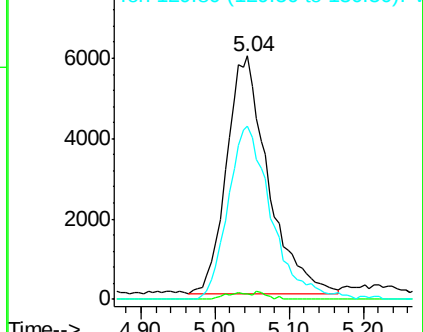
130 76.1 59.4 89.2



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



#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

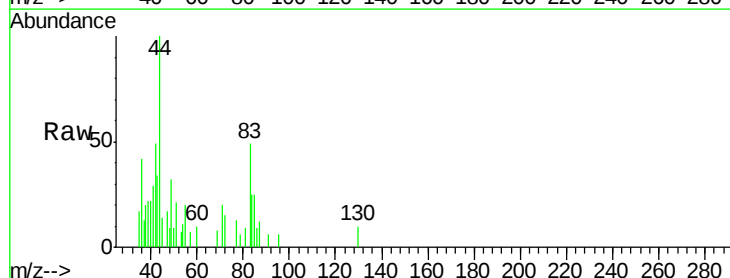
Tgt Ion: 42 Resp: 917

Ion Ratio Lower Upper

42 100

72 54.9 31.4 47.0#

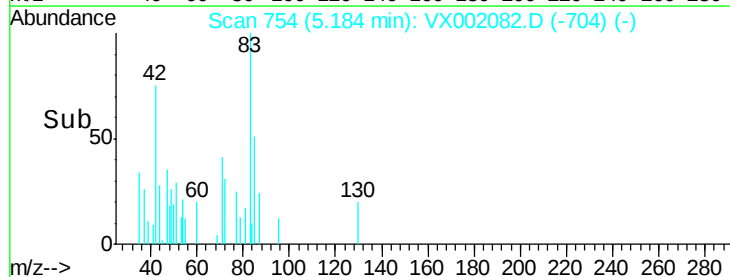
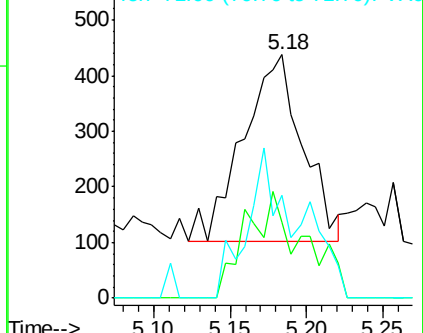
71 45.8 29.5 44.3#

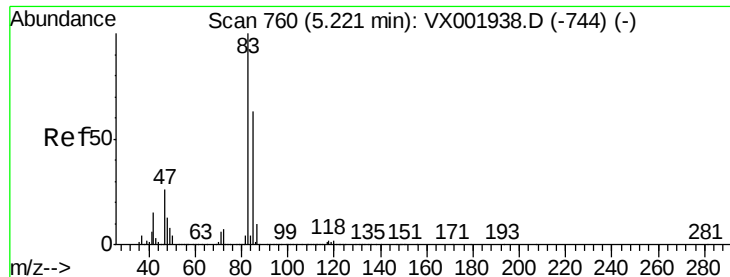


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

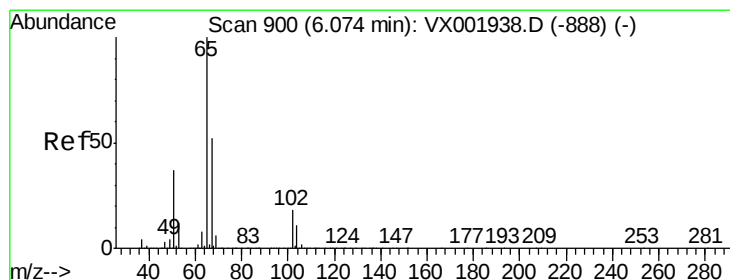
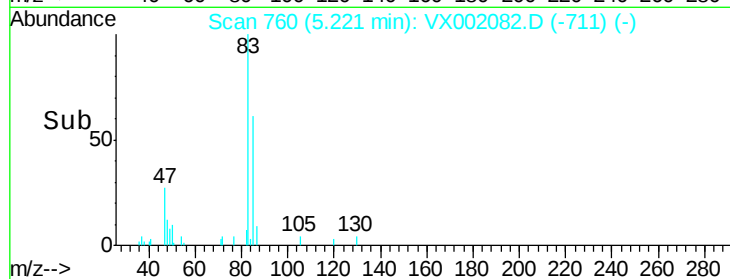
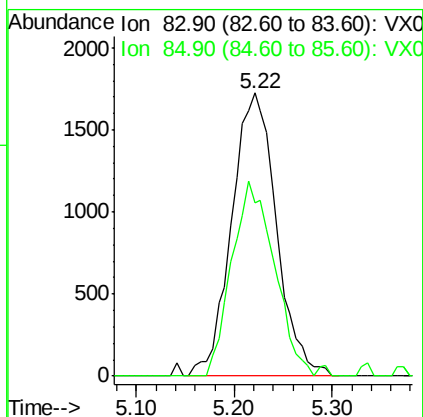
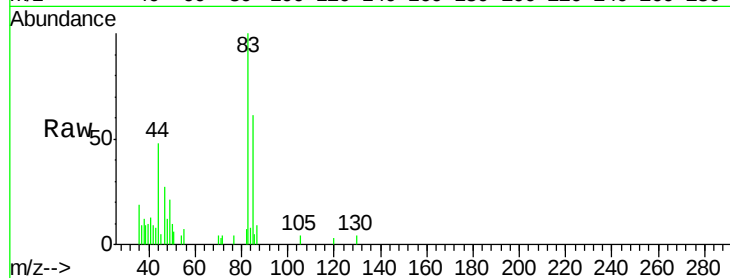




#30
Chloroform
Concen: 0.63 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002082.D
Acq: 27 May 2018 21:17

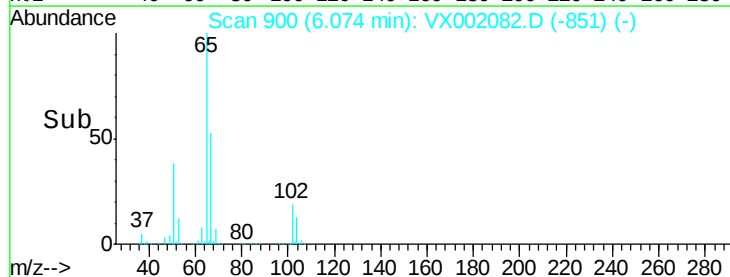
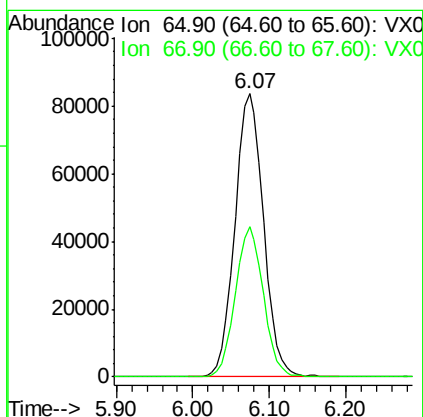
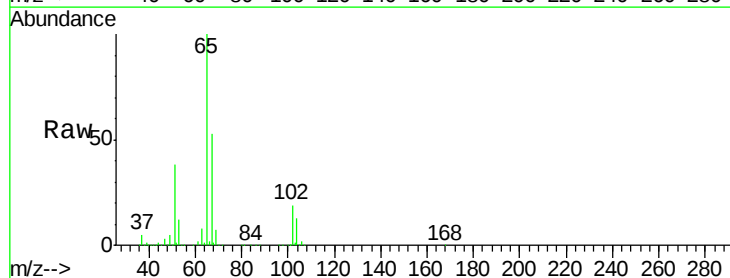
Instrument :
MSVOA_X
ClientSampled :

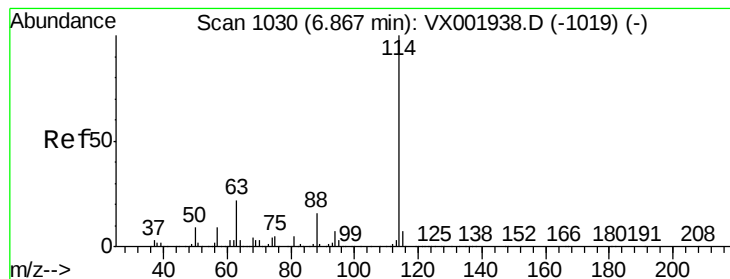
Tot Ion: 83 Resp: 5485
Ion Ratio Lower Upper
83 100
85 61.3 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 36.83 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002082.D
Acq: 27 May 2018 21:17

Tgt Ion: 65 Resp: 216787
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

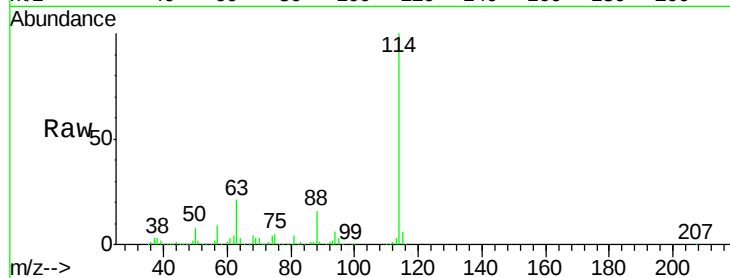
Tot Ion:114 Resp: 463192

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.2

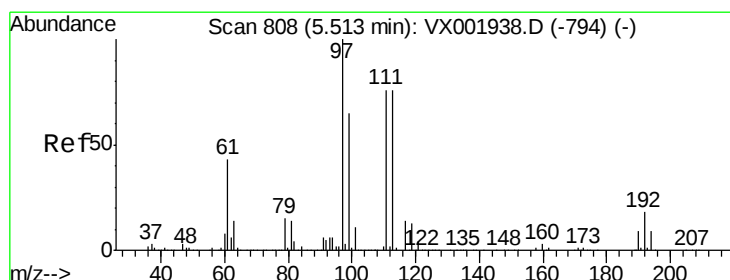
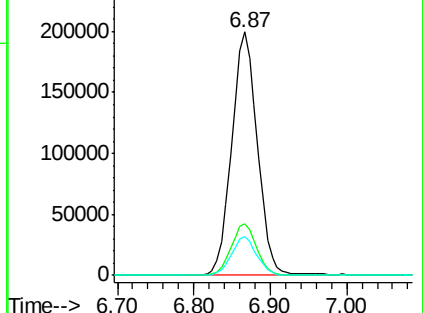
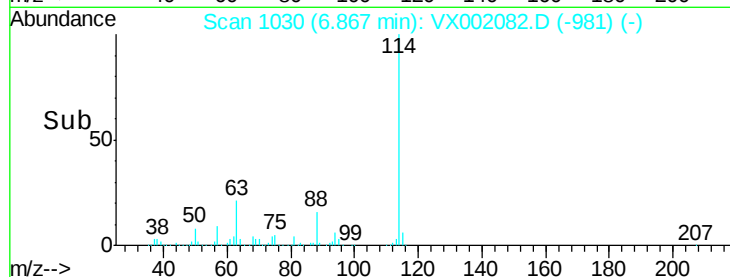
88 15.7 0.0 31.6



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: 36.48 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

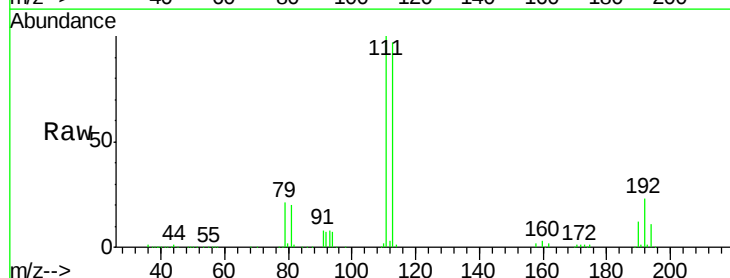
Tgt Ion:113 Resp: 168973

Ion Ratio Lower Upper

113 100

111 101.3 82.0 123.0

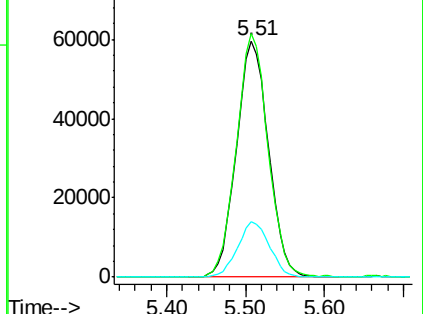
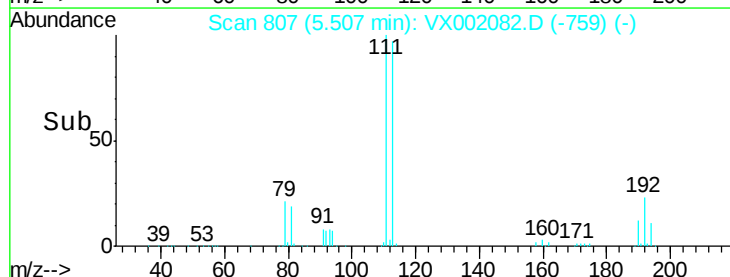
192 23.2 18.9 28.3

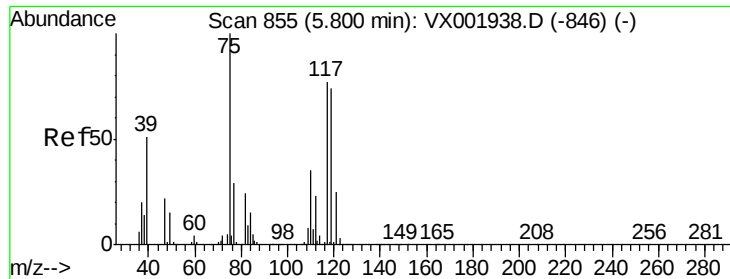


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

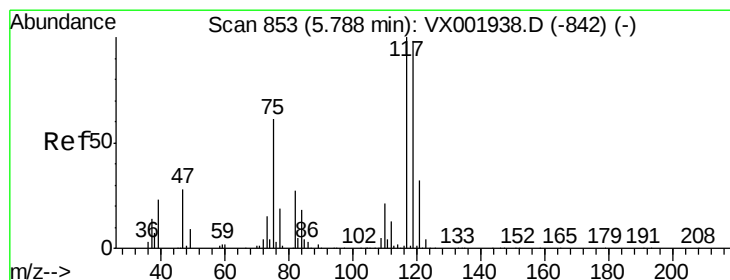
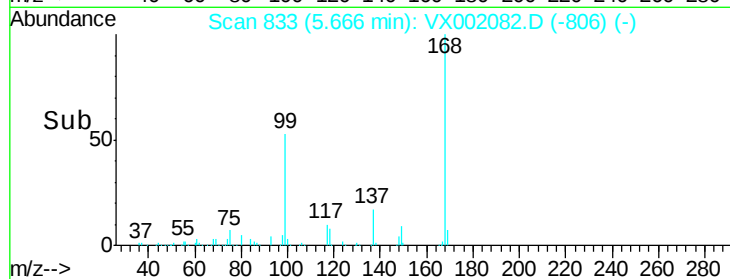
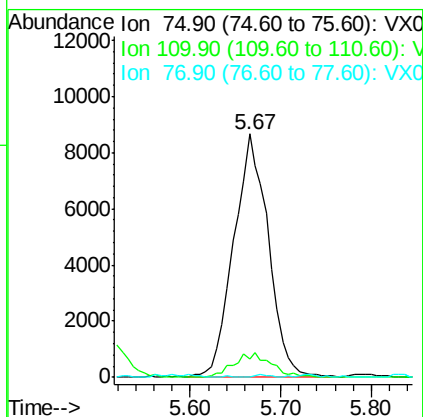
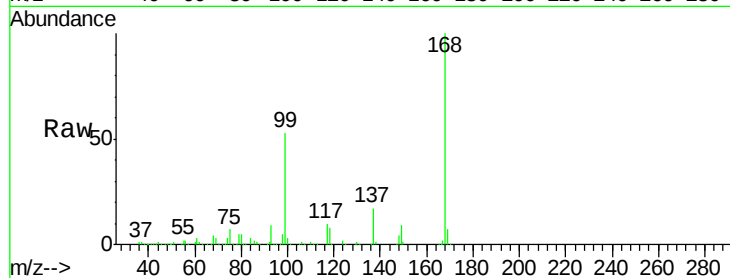




#36
 1,1-Dichloropropene
 Concen: 3.58 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002082.D
 Acq: 27 May 2018 21:17

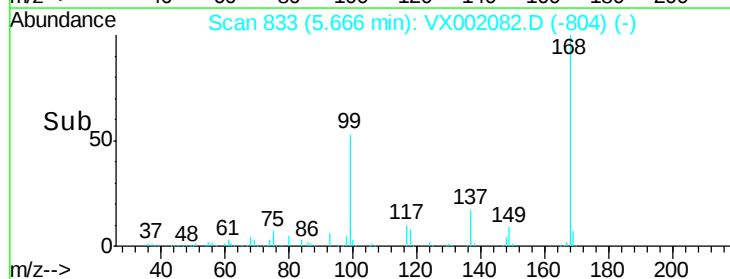
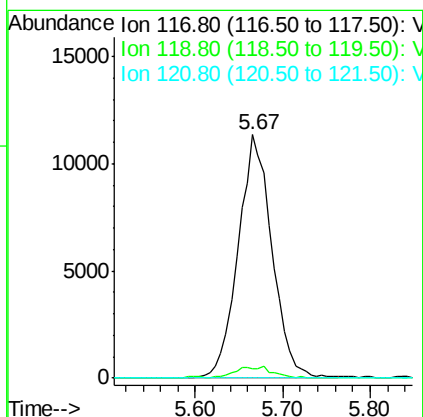
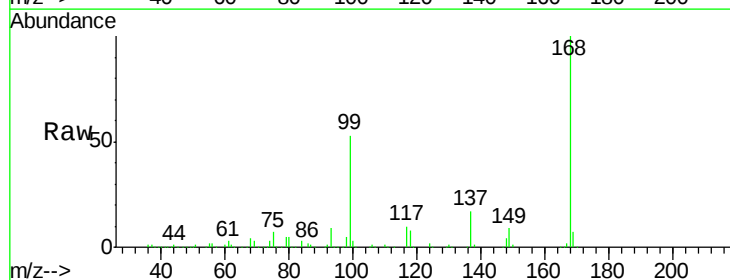
Instrument :
 MSVOA_X
 ClientSampleId :

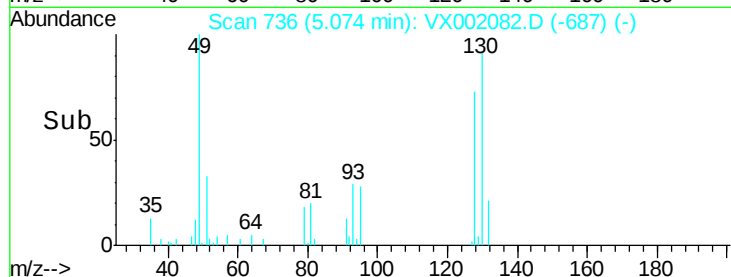
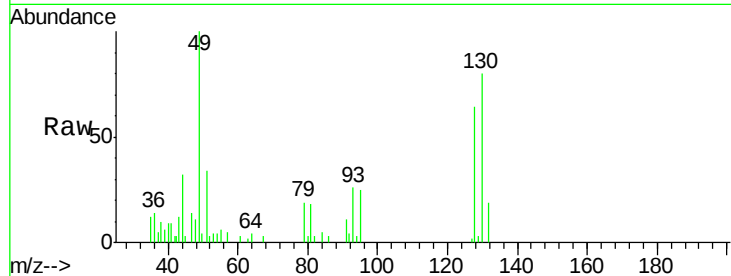
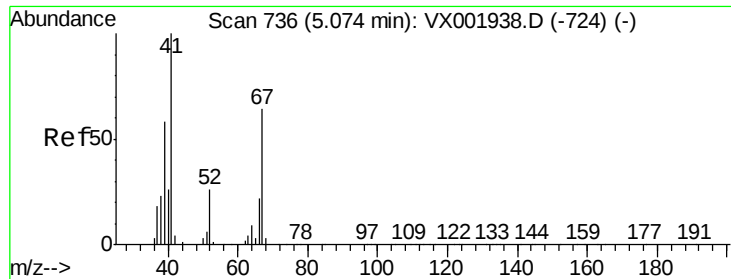
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	17.4	52.2#
77	0.5	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.05 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002082.D
 Acq: 27 May 2018 21:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	78.5	117.7#
121	0.0	25.5	38.3#

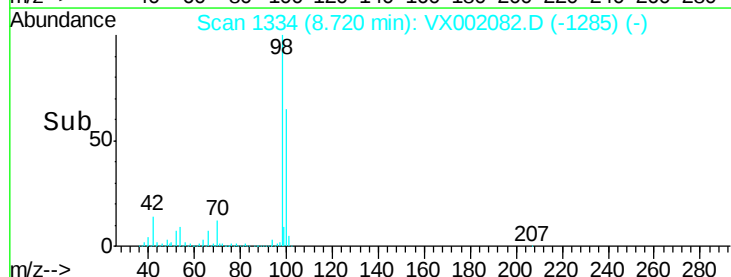
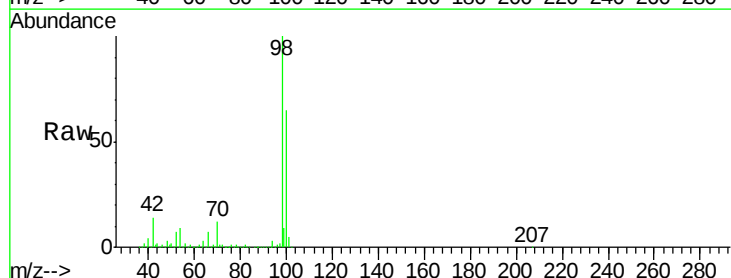
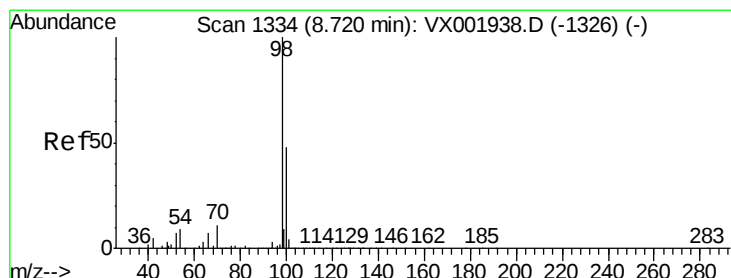
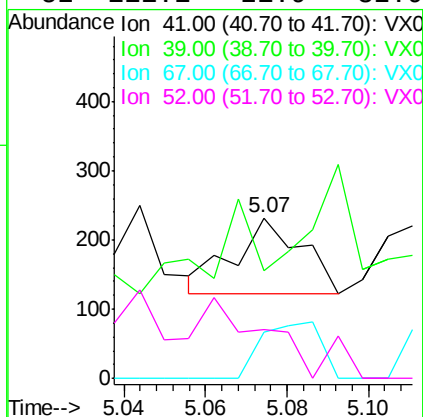




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.07 min Scan# 736
Delta R.T. 0.00 min
Lab File: VX002082.D
Acq: 27 May 2018 21:17

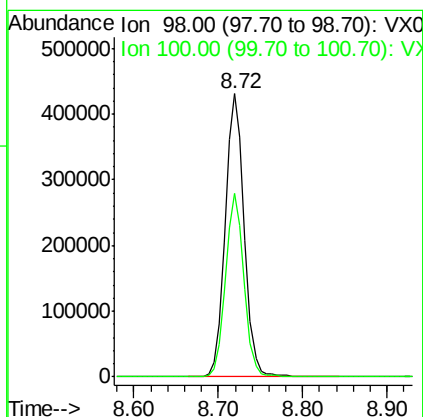
Instrument :
MSVOA_X
ClientSampled :

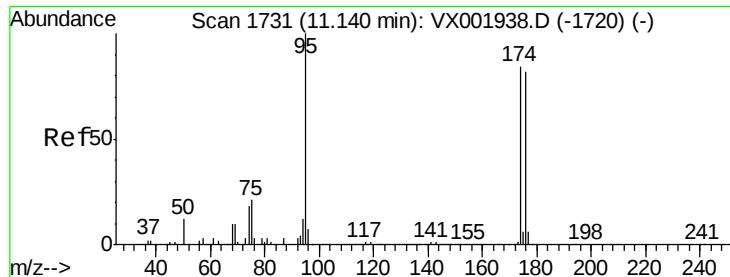
Tot Ion:	41	Resp:	126
Ion	Ratio	Lower	Upper
41	100		
39	84.1	46.0	69.0#
67	0.0	50.6	75.8#
52	111.1	21.9	32.9#



#50
Toluene-d8
Concen: 39.75 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002082.D
Acq: 27 May 2018 21:17

Tgt Ion:	98	Resp:	666613
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 37.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

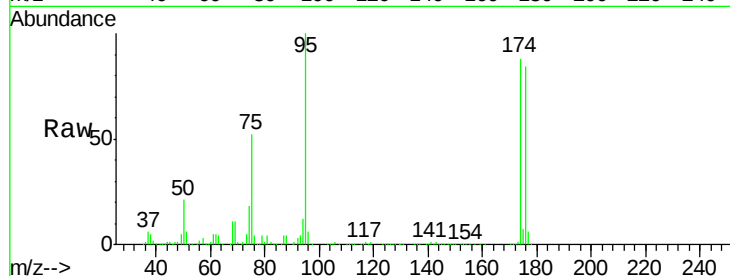
Tot Ion: 95 Resp: 247081

Ion Ratio Lower Upper

95 100

174 92.7 0.0 178.8

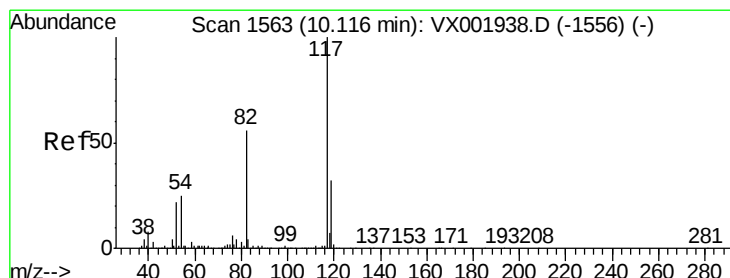
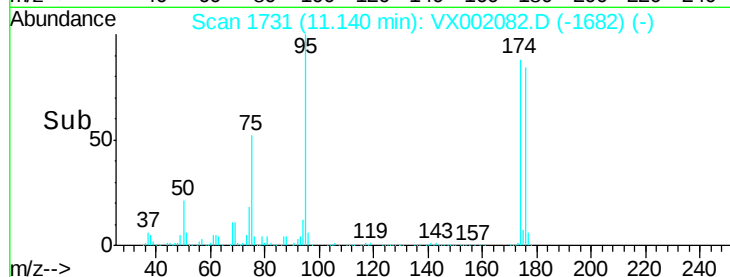
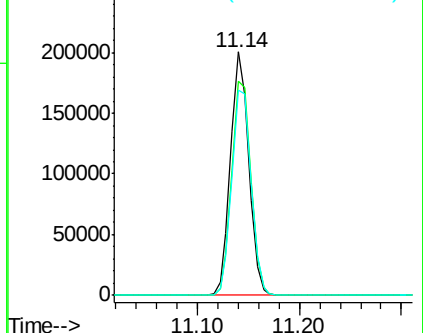
176 89.7 0.0 175.6



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

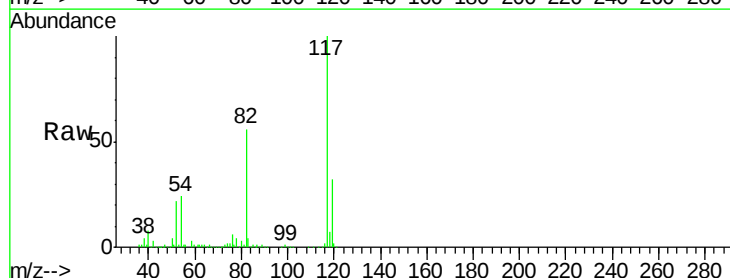
Tgt Ion: 117 Resp: 431518

Ion Ratio Lower Upper

117 100

82 55.8 44.8 67.2

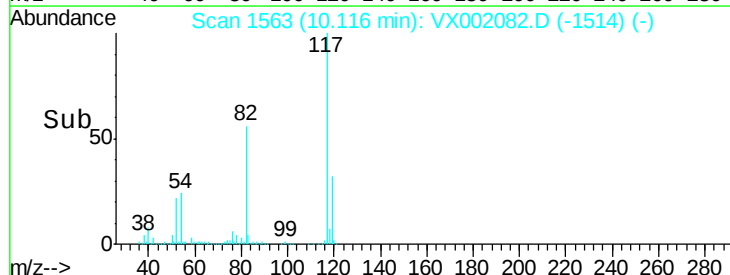
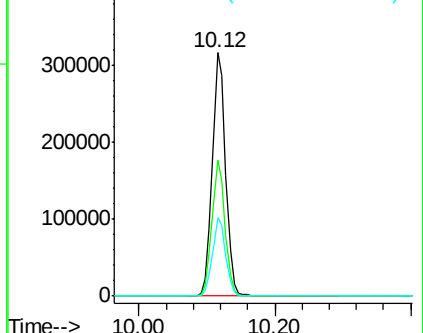
119 32.1 25.5 38.3

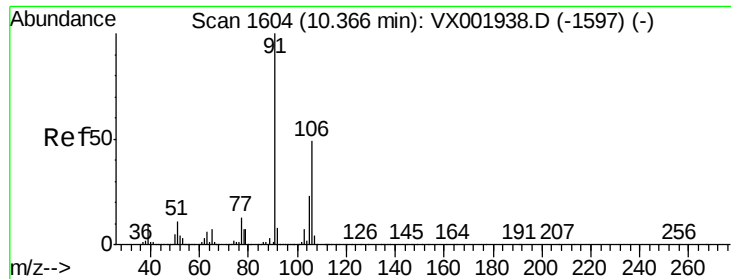


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xvlenes

Concen: 0.21 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.01 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

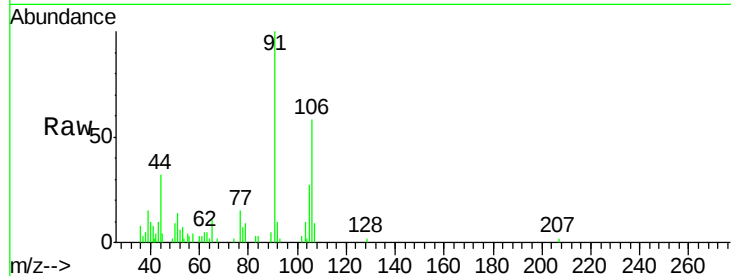
ClientSampleId :

Tot Ion:106 Resp: 1883

Ion Ratio Lower Upper

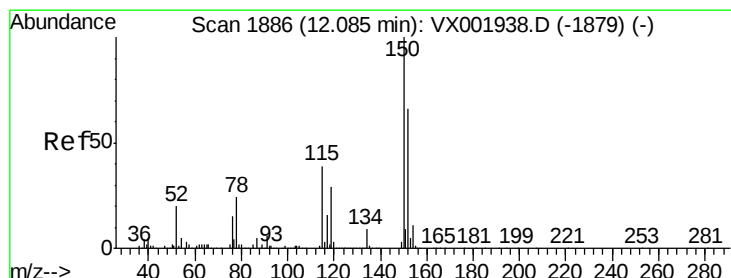
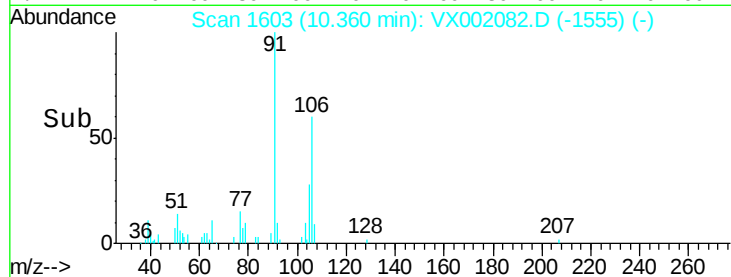
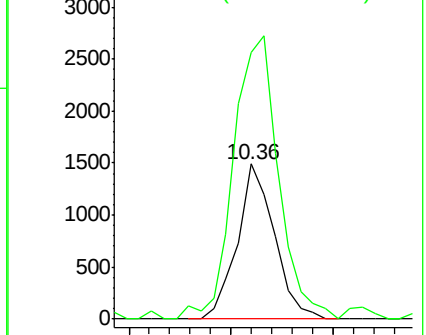
106 100

91 221.3 165.0 247.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

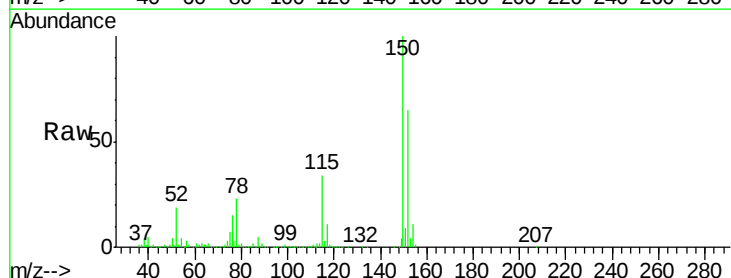
Tgt Ion:152 Resp: 248140

Ion Ratio Lower Upper

152 100

115 54.5 42.3 126.8

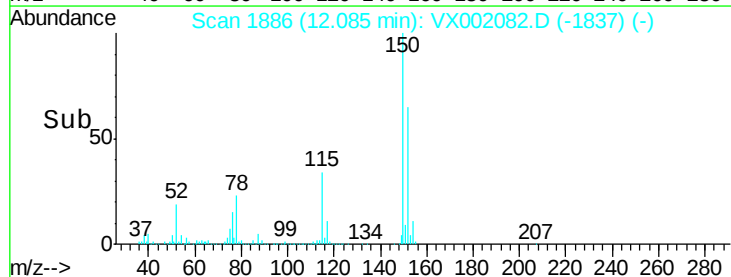
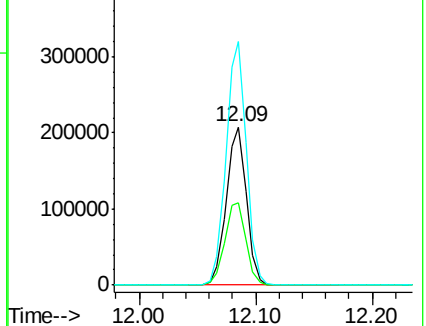
150 154.9 0.0 351.0

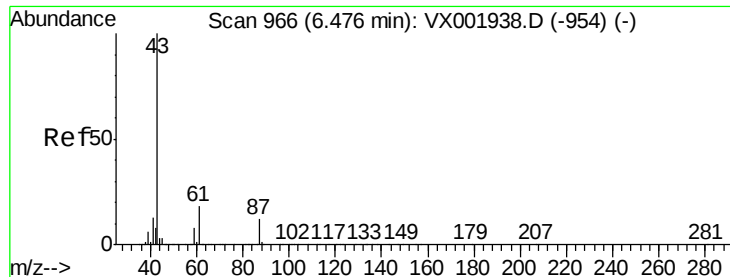


Abundance Ion 151.90 (151.60 to 152.60): V

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# 963

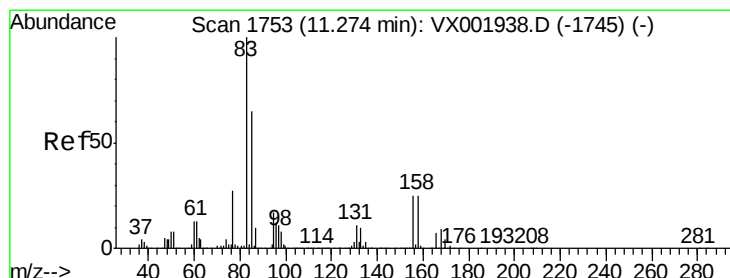
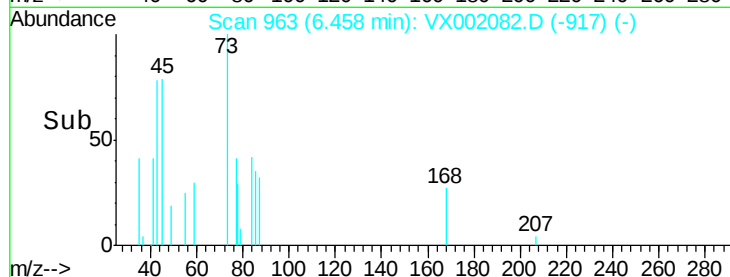
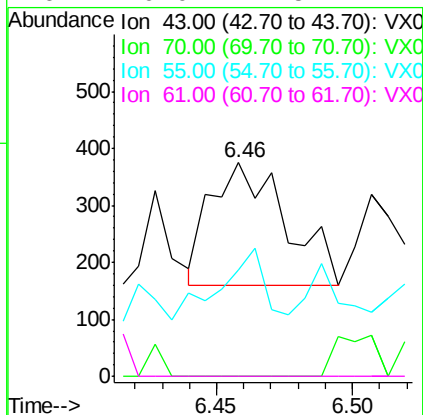
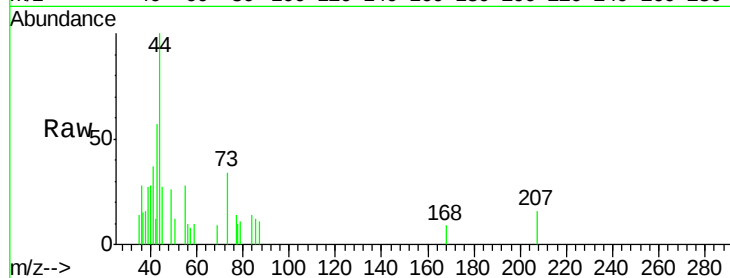
Delta R.T. -0.02 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	43	Resp:	411
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	32.8	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

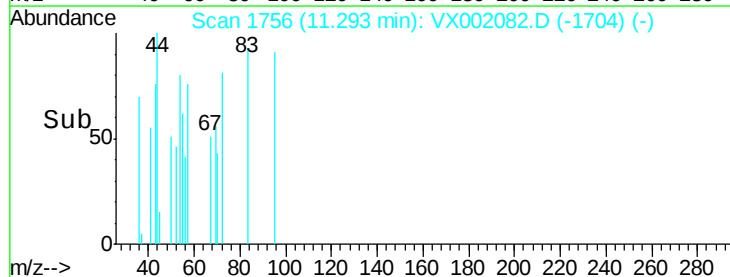
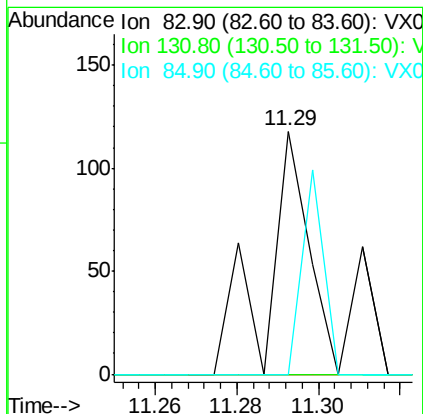
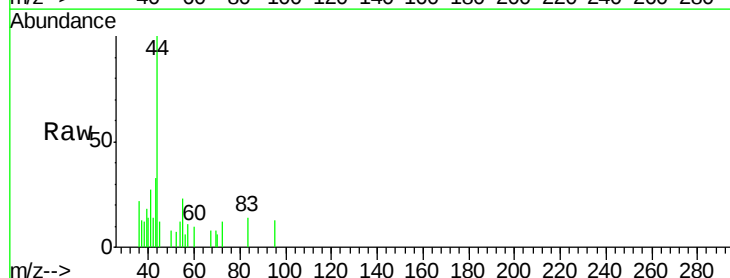
RT: 11.29 min Scan# 1756

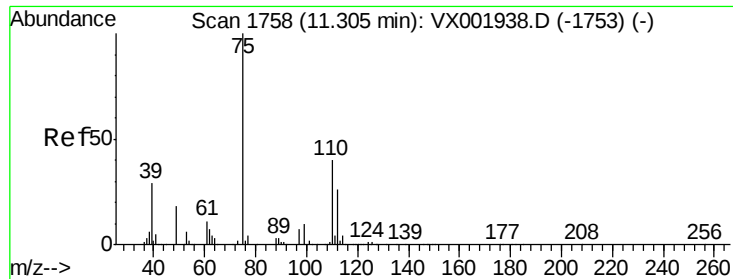
Delta R.T. 0.02 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Tgt Ion:	83	Resp:	86
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	41.9	32.6	97.7





#76

1,2,3-Trichloropropane

Concen: 21.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

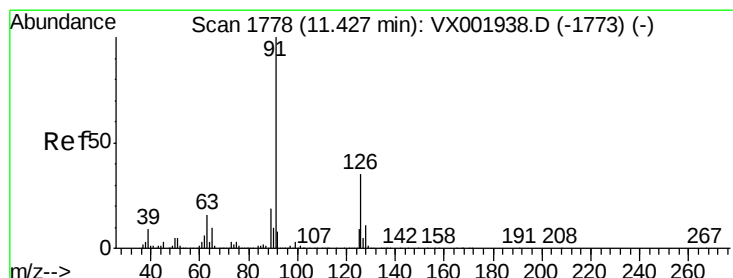
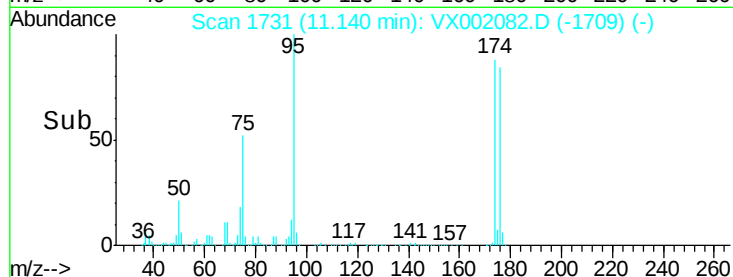
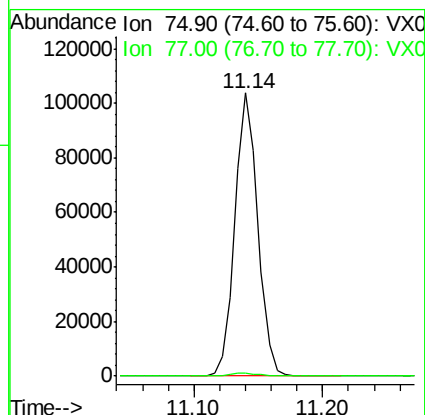
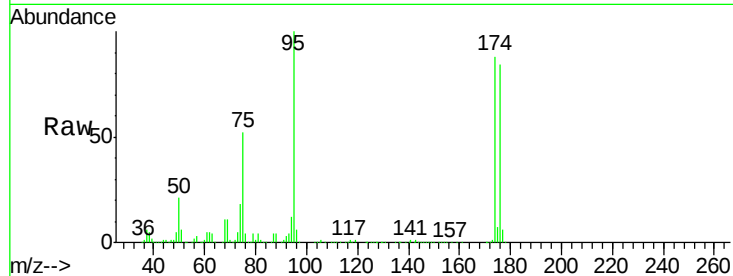
ClientSampleId :

Tot Ion: 75 Resp: 129003

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX002082.D

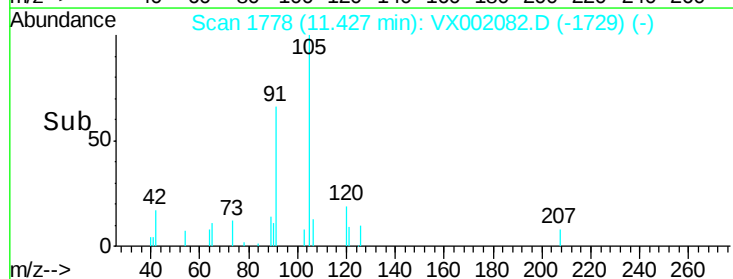
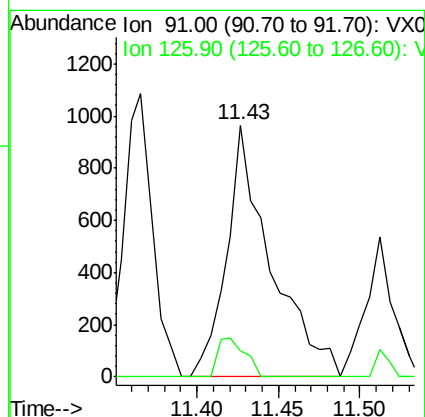
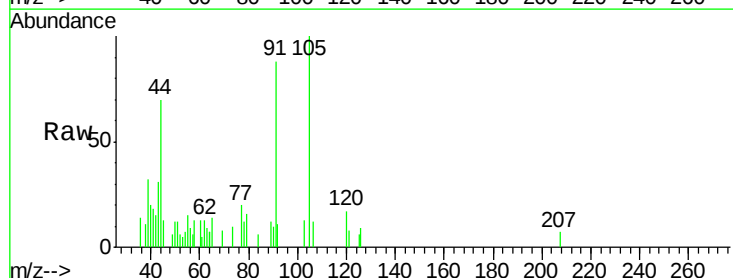
Acq: 27 May 2018 21:17

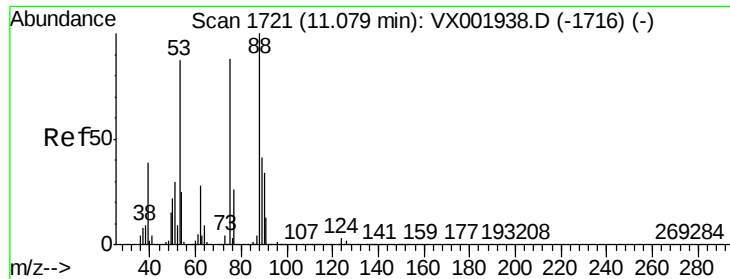
Tgt Ion: 91 Resp: 1813

Ion Ratio Lower Upper

91 100

126 9.5 17.4 52.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 52.02 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

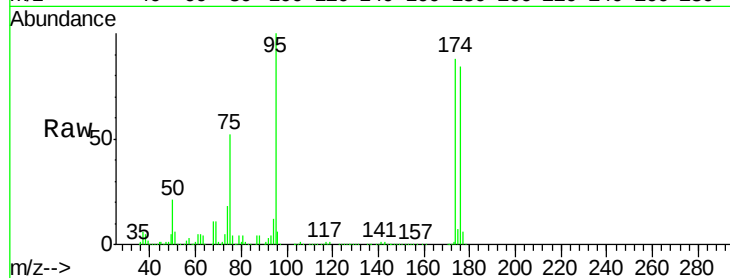
Tot Ion: 75 Resp: 129003

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

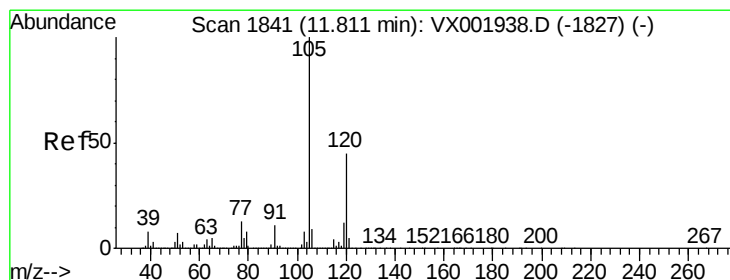
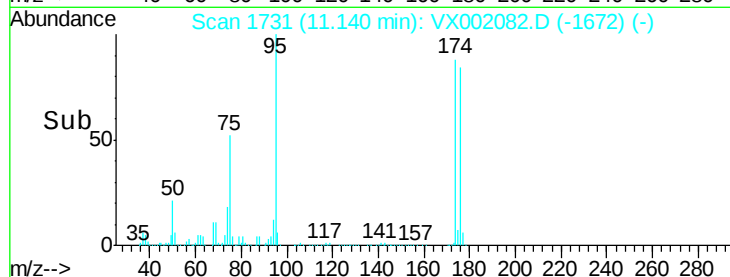
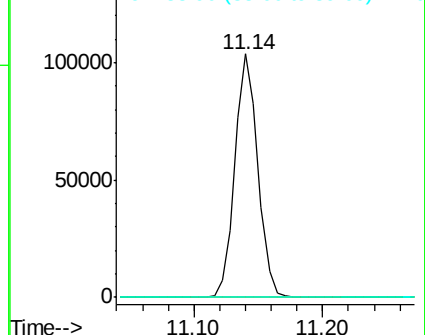
89 0.0 39.4 59.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.66 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002082.D

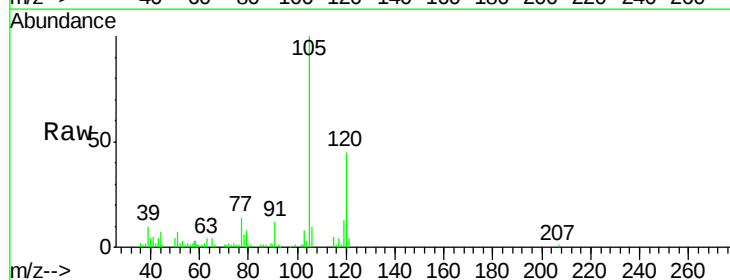
Acq: 27 May 2018 21:17

Tgt Ion: 105 Resp: 12339

Ion Ratio Lower Upper

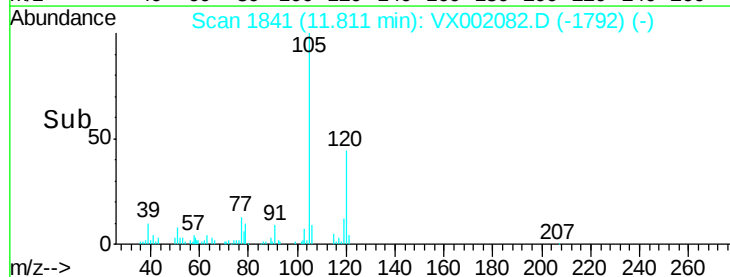
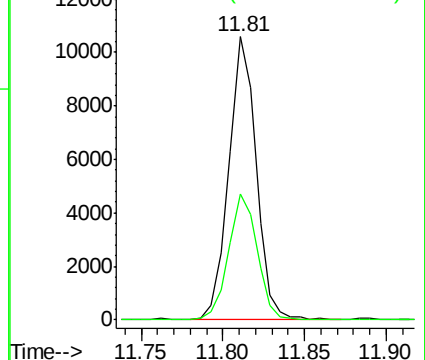
105 100

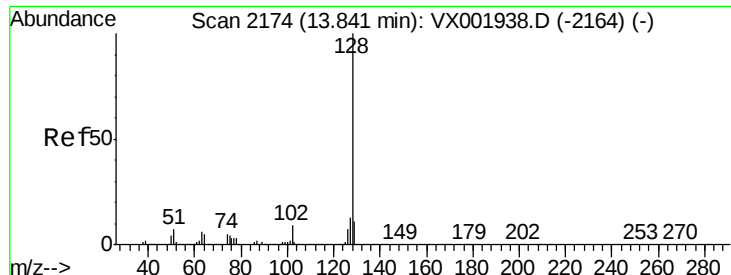
120 46.5 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 4.39 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002082.D

Acq: 27 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

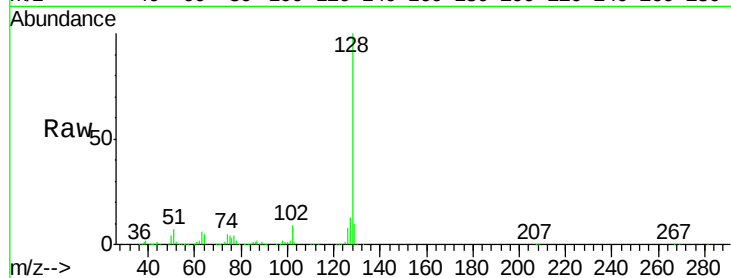
Tot Ion:128 Resp: 98485

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 11.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

