

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062618\
 Data File : VX002904.D
 Acq On : 26 Jun 2018 19:45
 Operator : JC/MD
 Sample : VX0626MBL02
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

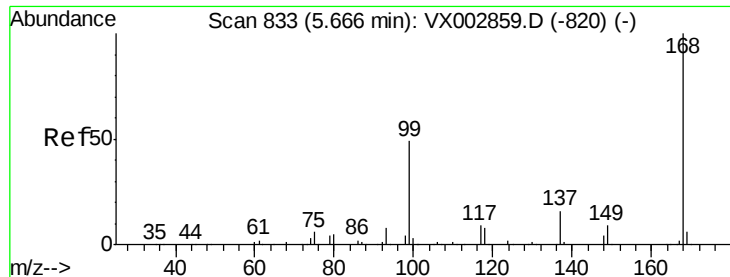
Quant Time: Jun 27 02:40:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232904	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	323406	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	297509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165106	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	156541	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
35) Dibromofluoromethane	5.51	113	124151	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	8.72	98	455550	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	11.14	95	155853	43.21	ug/l	0.00
Spiked Amount			Recovery	=	86.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	219	Below Cal	#	39
3) Chloromethane	1.33	50	720	Below Cal		99
5) Bromomethane	1.66	94	1898	Below Cal		96
6) Chloroethane	1.73	64	1183	Below Cal	#	62
10) Methyl Iodide	2.53	142	4711	7.81	ug/l	98
11) Tert butyl alcohol	3.03	59	2383	3.72	ug/l	# 81
12) 1,1-Dichloroethene	2.38	96	483	0.21	ug/l	# 44
13) Acrolein	2.30	56	457	5.49	ug/l	85
15) Acrylonitrile	3.15	53	1045	0.76	ug/l	# 80
16) Acetone	2.45	43	948	0.71	ug/l	94
17) Carbon Disulfide	2.57	76	3425	0.56	ug/l	95
20) Methylene Chloride	2.85	84	858	0.33	ug/l	# 84
21) trans-1,2-Dichloroethene	3.17	96	765	0.31	ug/l	# 92
25) 2-Butanone	4.71	43	1093	0.55	ug/l	97
29) Tetrahydrofuran	5.18	42	1299	1.02	ug/l	# 81
38) Carbon Tetrachloride	5.67	117	21487	5.52	ug/l	# 17
49) 1,4-Dioxane	7.77	88	19	0.30	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	8.32	63	479	0.25	ug/l	# 48
68) m/p-Xylenes	10.36	106	967	0.20	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	82417	27.56	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	82417	77.94	ug/l	# 7
87) 1,3-Dichlorobenzene	12.03	146	1172	0.20	ug/l	87
93) 1,2,4-Trichlorobenzene	13.65	180	1417	0.33	ug/l	95
94) Hexachlorobutadiene	13.79	225	665	0.31	ug/l	95
95) Naphthalene	13.84	128	3285	0.29	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1505	0.36	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

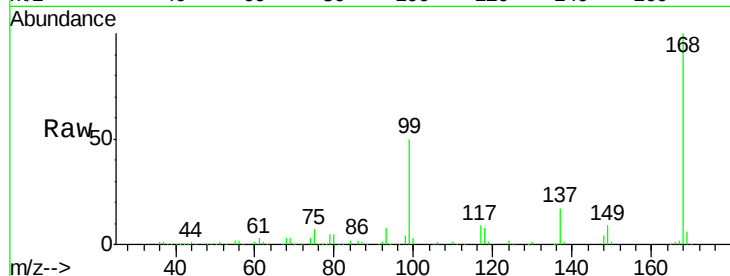
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 232904

Ion Ratio Lower Upper

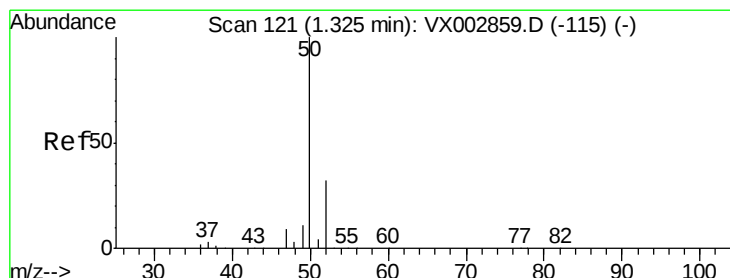
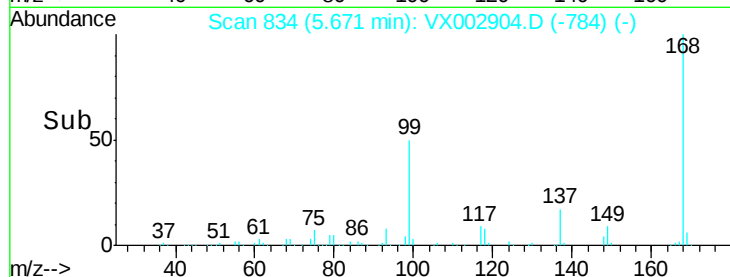
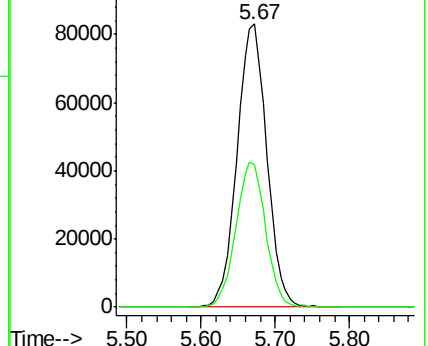
168 100

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



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002904.D

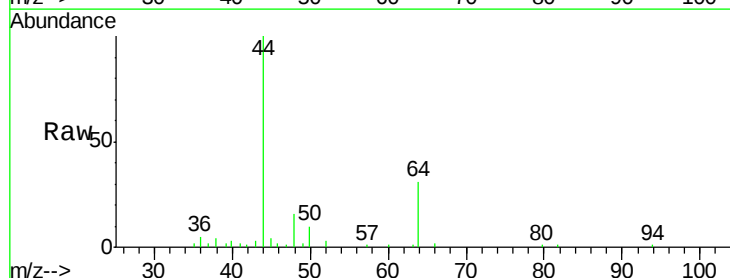
Acq: 26 Jun 2018 19:45

Tgt Ion: 50 Resp: 720

Ion Ratio Lower Upper

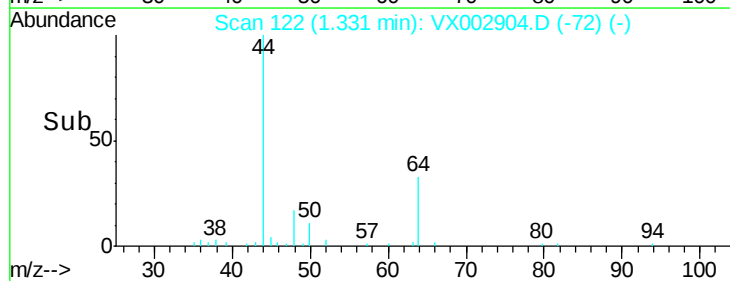
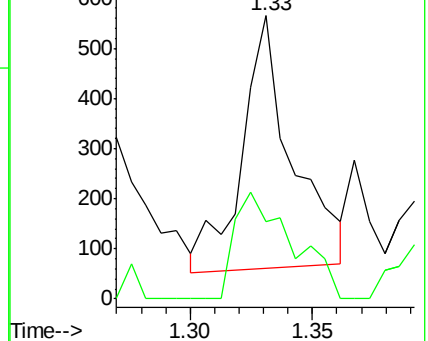
50 100

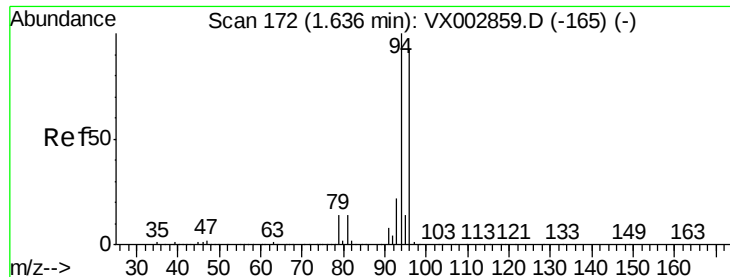
52 32.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

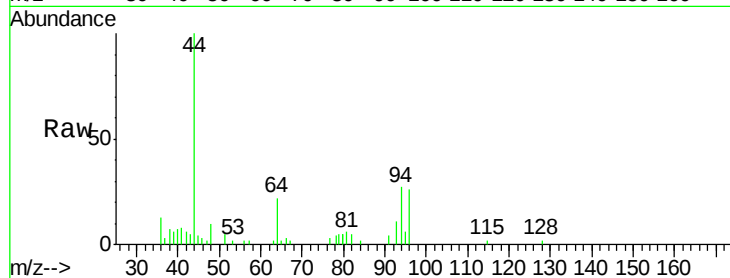
ClientSampleId :

Tot Ion: 94 Resp: 1898

Ion Ratio Lower Upper

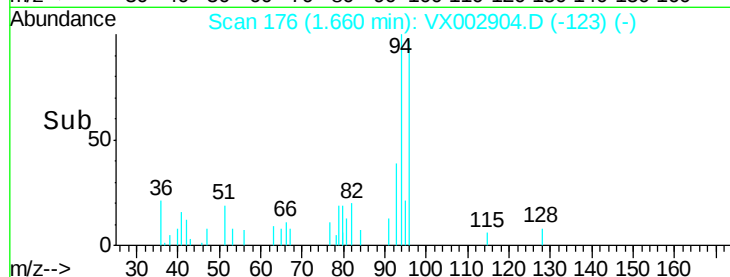
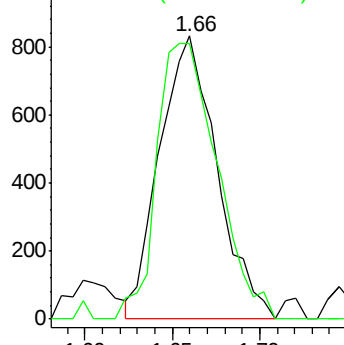
94 100

96 97.2 74.9 112.3

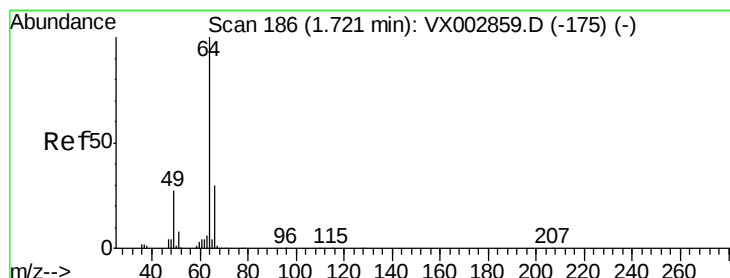


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX002904.D

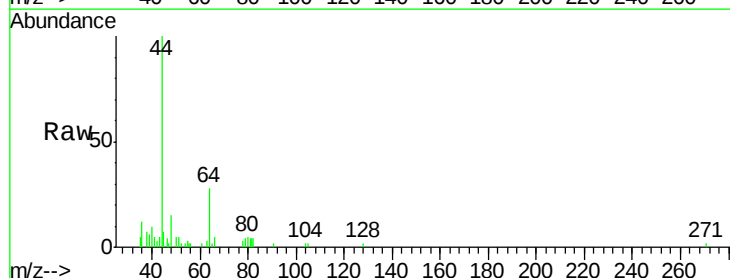
Acq: 26 Jun 2018 19:45

Tgt Ion: 64 Resp: 1183

Ion Ratio Lower Upper

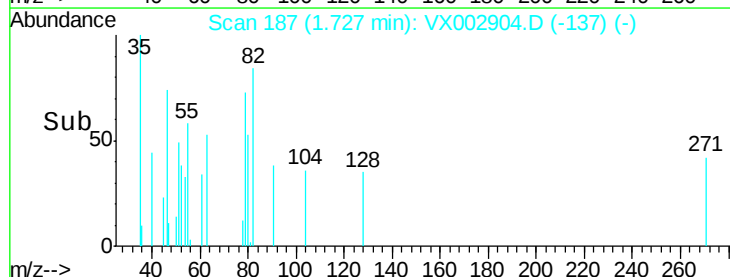
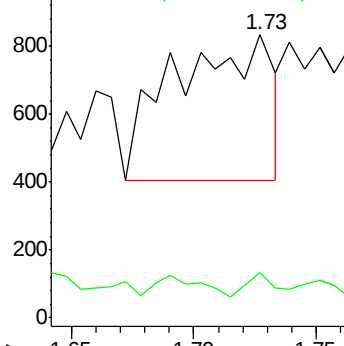
64 100

66 10.7 25.5 38.3#

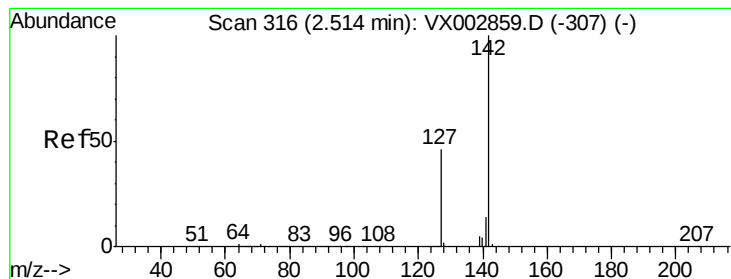


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#10

Methyl Iodide

Concen: 7.81 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampled :

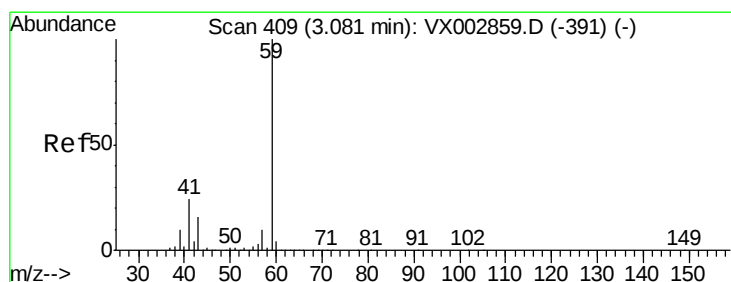
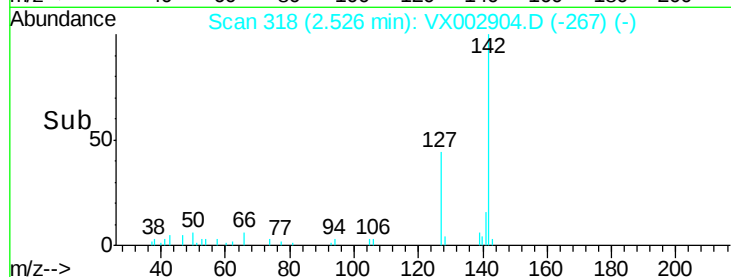
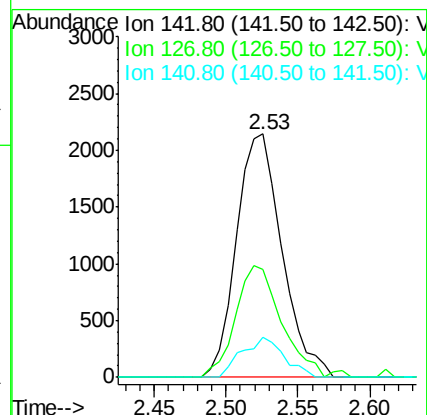
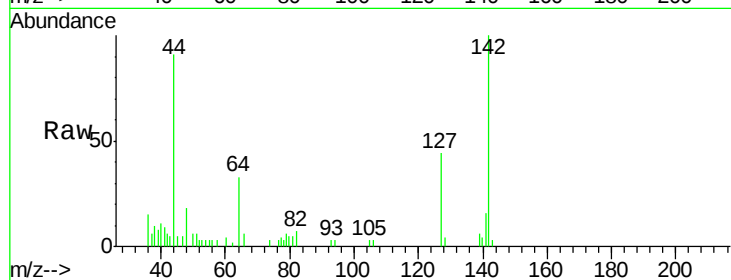
Tot Ion:142 Resp: 4711

Ion Ratio Lower Upper

142 100

127 46.9 36.6 55.0

141 15.3 11.3 16.9



#11

Tert butyl alcohol

Concen: 3.72 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.06 min

Lab File: VX002904.D

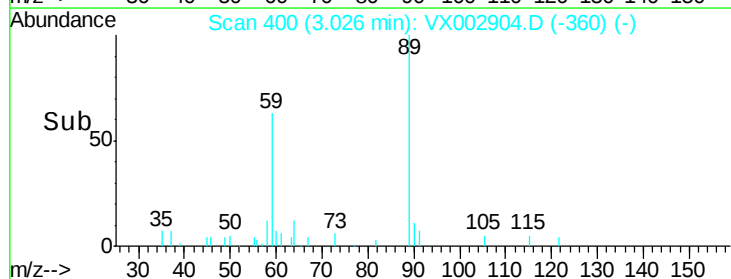
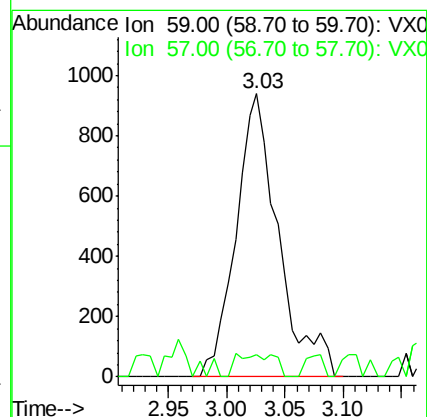
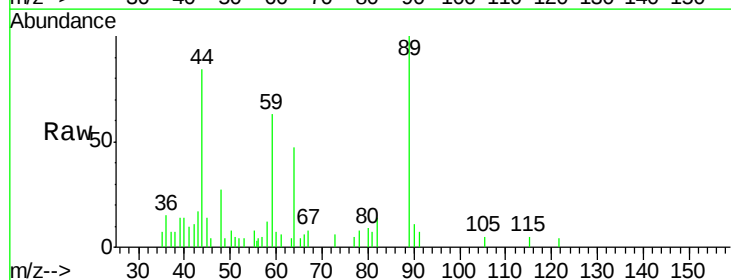
Acq: 26 Jun 2018 19:45

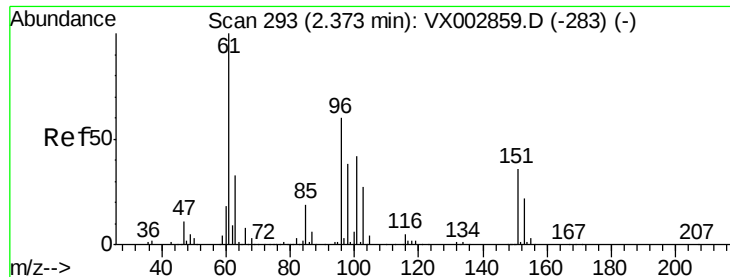
Tgt Ion: 59 Resp: 2383

Ion Ratio Lower Upper

59 100

57 3.2 8.2 12.2#

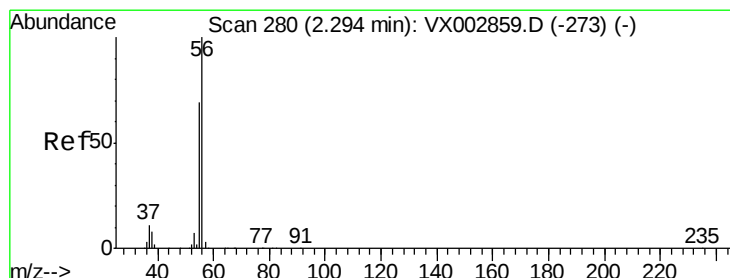
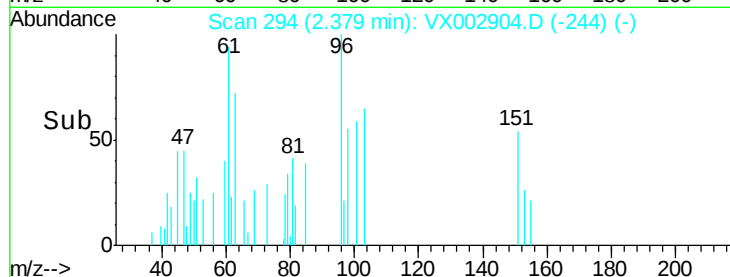
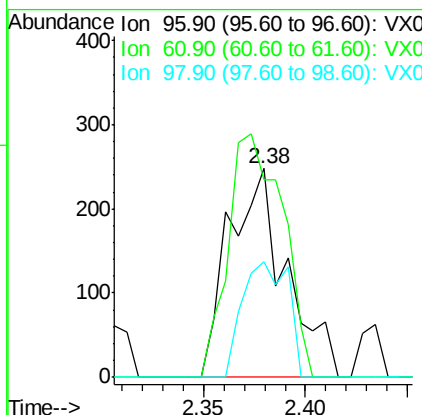
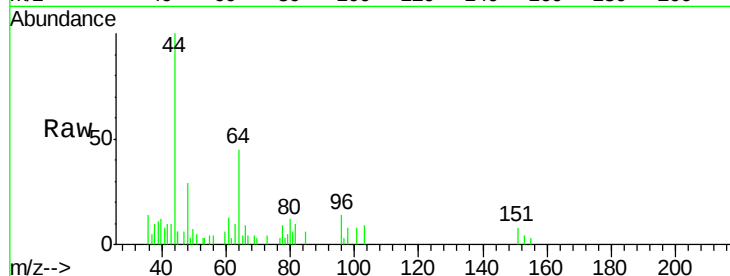




#12
 1,1-Dichloroethene
 Concen: 0.21 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX002904.D
 Acq: 26 Jun 2018 19:45

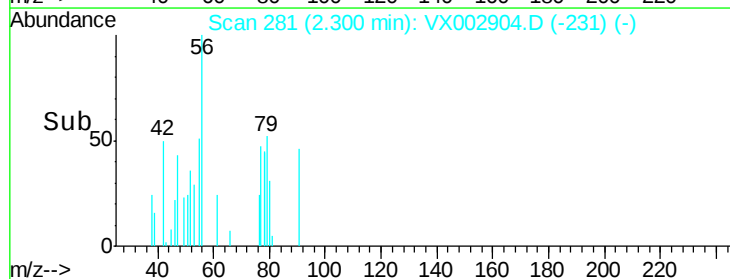
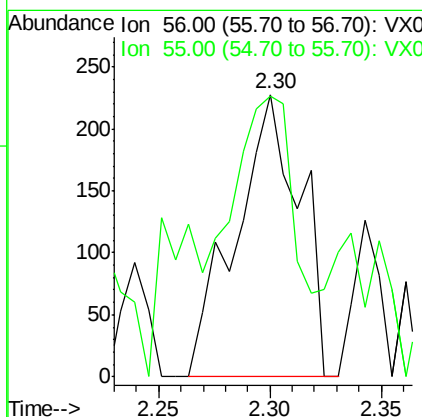
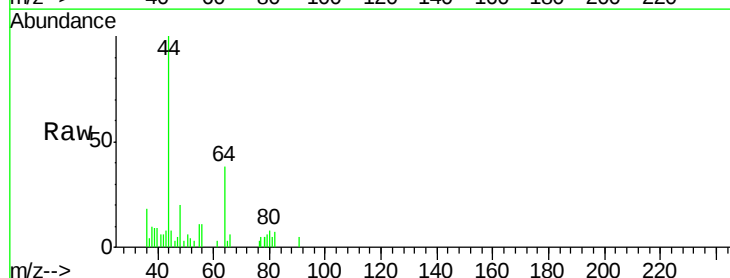
Instrument :
 MSVOA_X
 ClientSampleId :

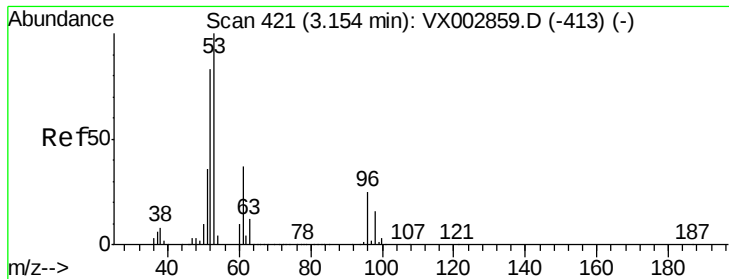
Tot Ion	Ratio	Lower	Upper
96	100		
61	77.7	137.9	206.9#
98	45.5	51.6	77.4#



#13
 Acrolein
 Concen: 5.49 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX002904.D
 Acq: 26 Jun 2018 19:45

Tgt Ion	Ratio	Lower	Upper
56	100		
55	83.4	57.0	85.4





#15

Acrylonitrile

Concen: 0.76 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampled :

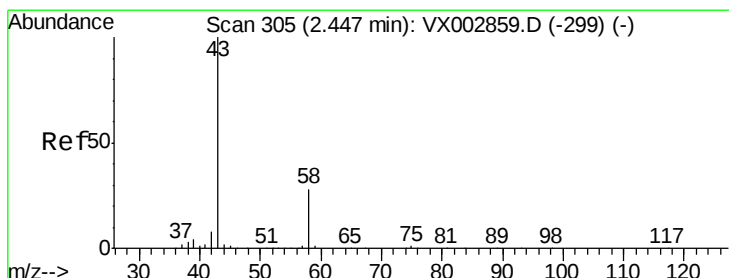
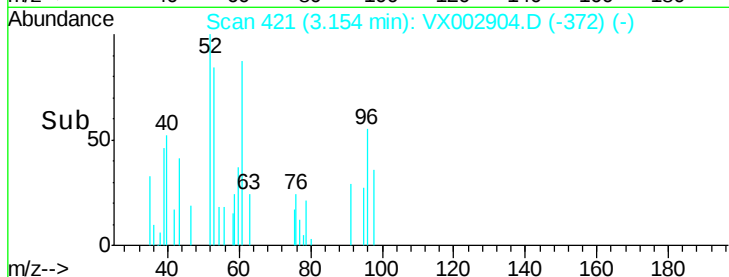
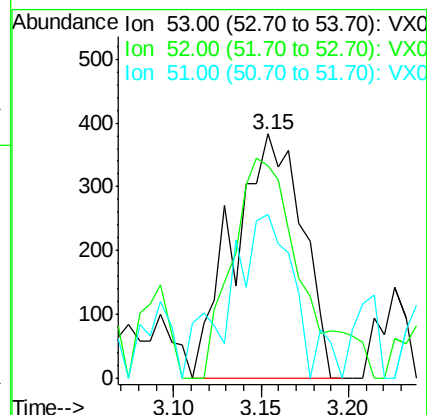
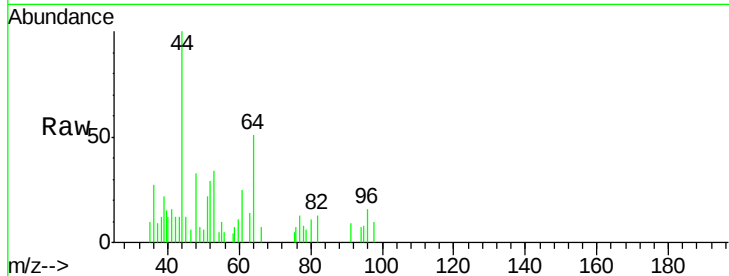
Tot Ion: 53 Resp: 1045

Ion Ratio Lower Upper

53 100

52 90.8 66.7 100.1

51 64.9 29.9 44.9#



#16

Acetone

Concen: 0.71 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002904.D

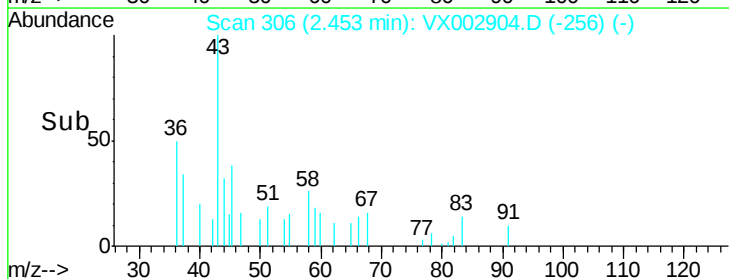
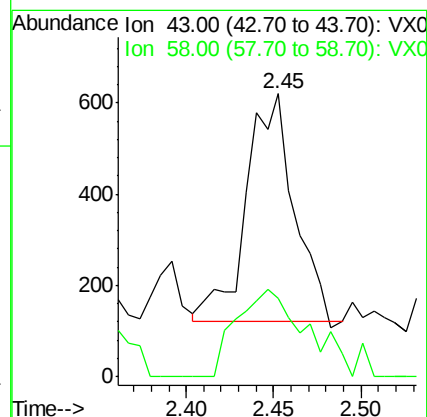
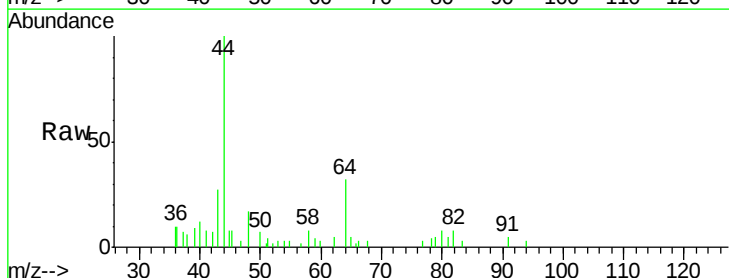
Acq: 26 Jun 2018 19:45

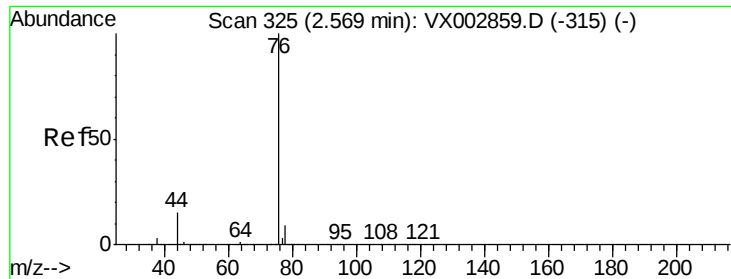
Tgt Ion: 43 Resp: 948

Ion Ratio Lower Upper

43 100

58 24.3 22.1 33.1

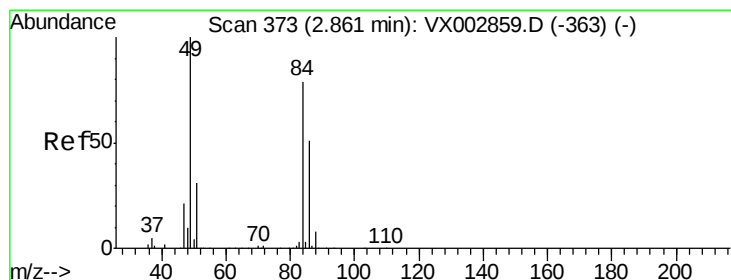
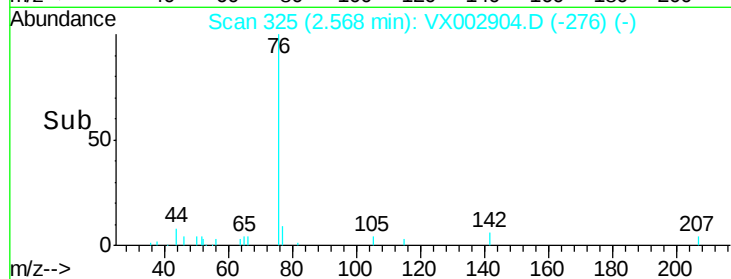
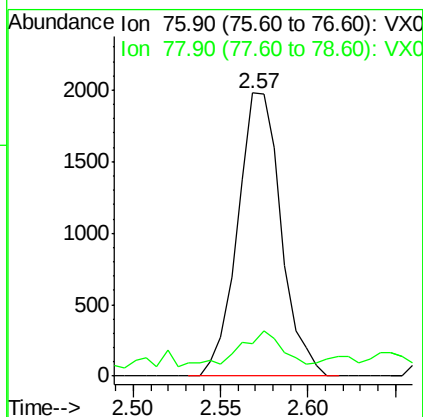
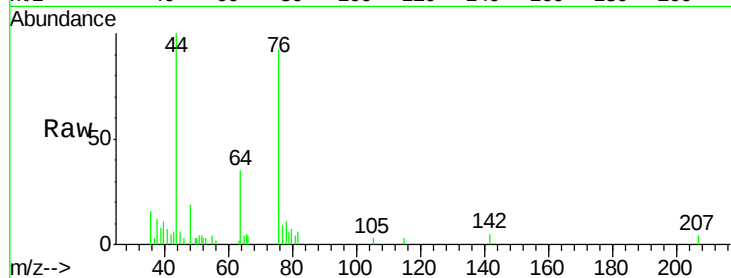




#17
Carbon Disulfide
Concen: 0.56 ug/l
RT: 2.57 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

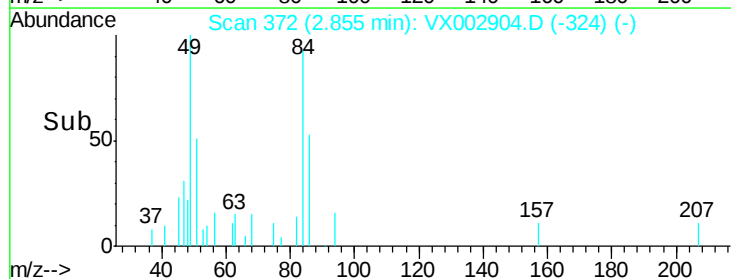
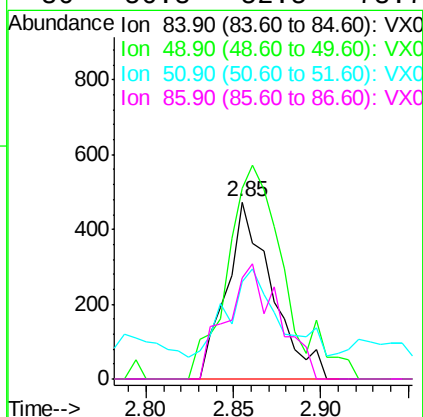
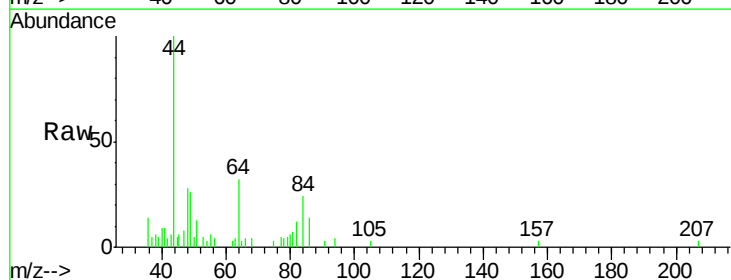
Instrument :
MSVOA_X
ClientSampleId :

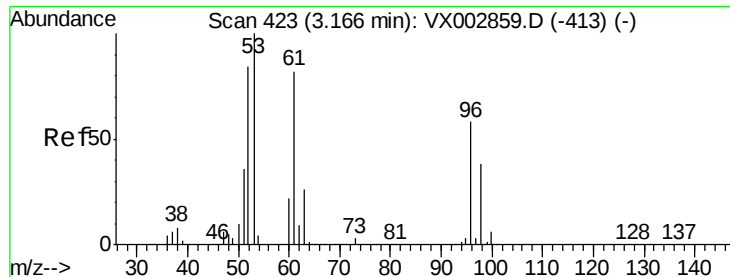
Tot Ion: 76 Resp: 3425
Ion Ratio Lower Upper
76 100
78 6.9 6.9 10.3



#20
Methylene Chloride
Concen: 0.33 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

Tgt Ion: 84 Resp: 858
Ion Ratio Lower Upper
84 100
49 107.6 107.8 161.6#
51 42.2 32.8 49.2
86 56.8 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.31 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampleId :

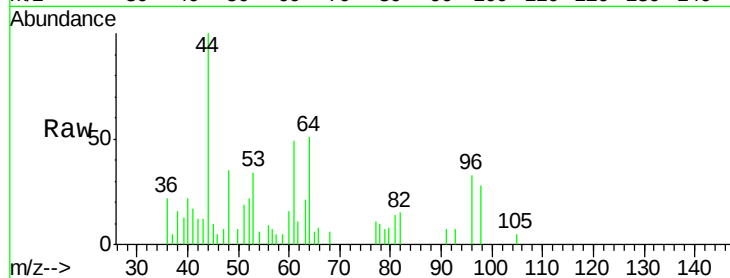
Tot Ion: 96 Resp: 765

Ion Ratio Lower Upper

96 100

61 146.5 117.0 175.4

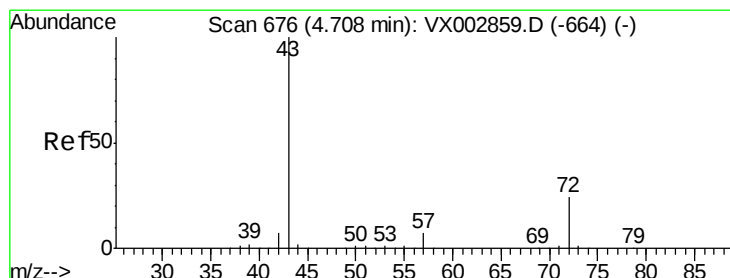
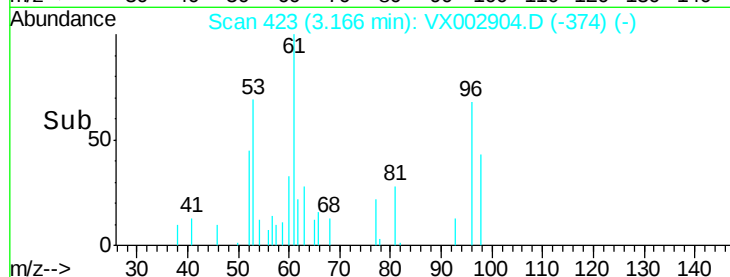
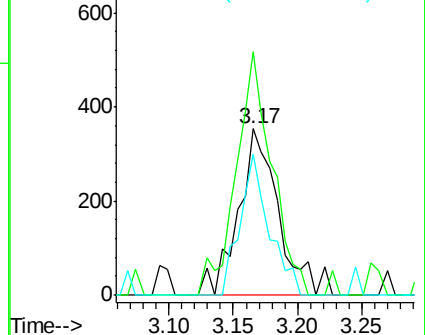
98 84.7 52.4 78.6#



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



#25

2-Butanone

Concen: 0.55 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX002904.D

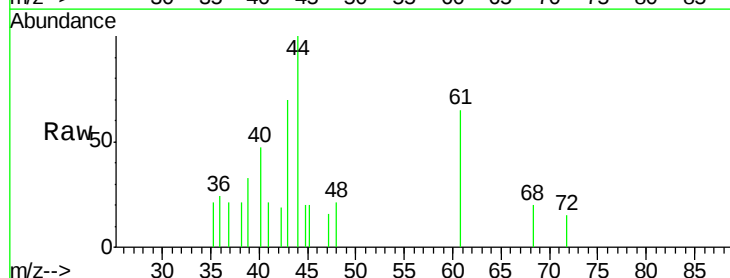
Acq: 26 Jun 2018 19:45

Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

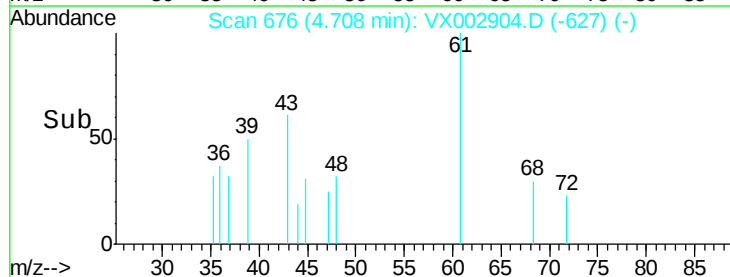
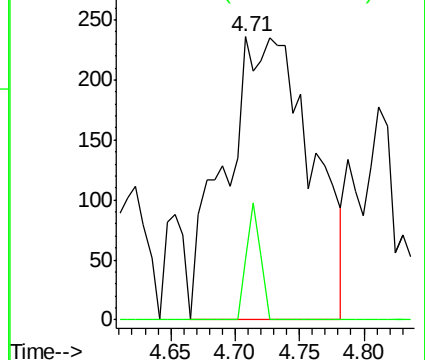
43 100

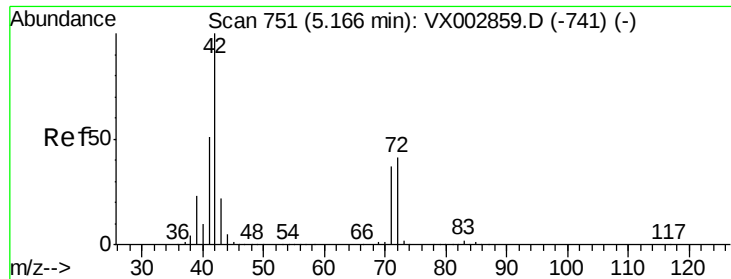
72 21.6 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

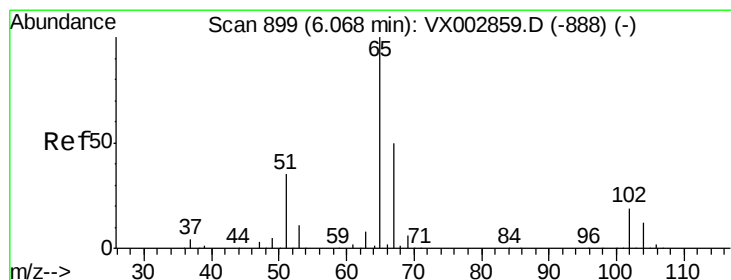
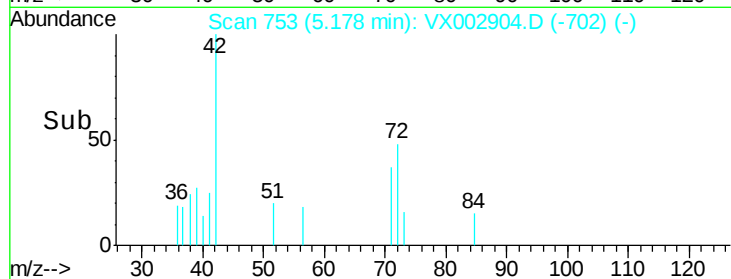
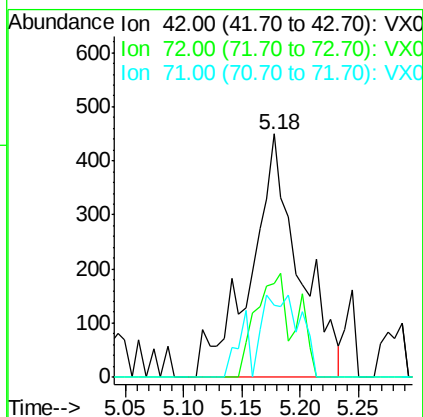
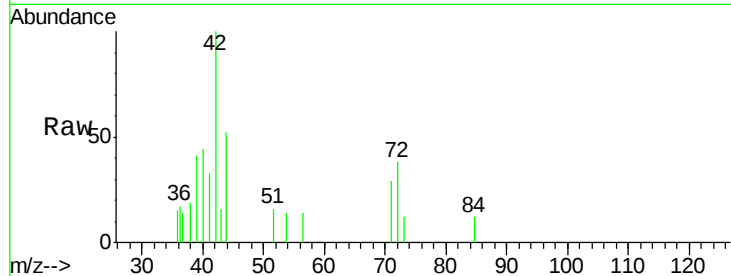




#29
Tetrahydrofuran
Concen: 1.02 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

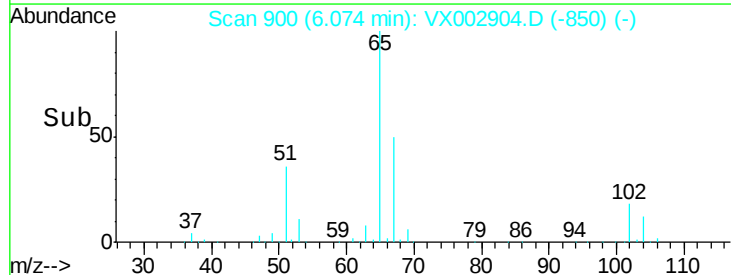
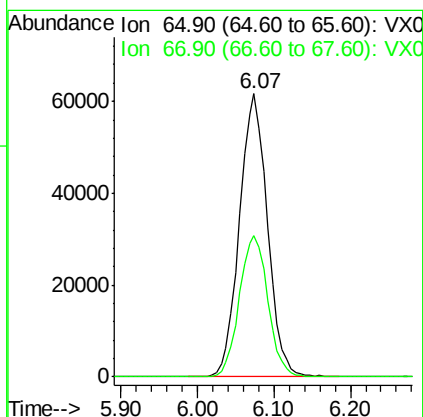
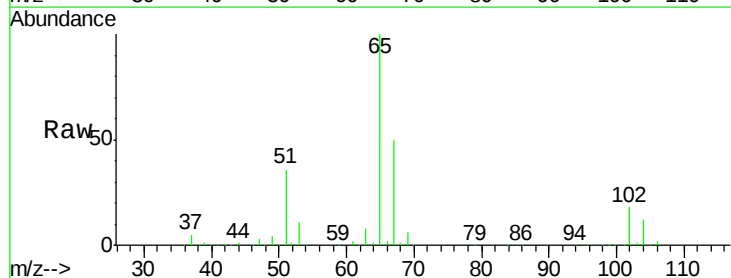
Instrument :
MSVOA_X
ClientSampleId :

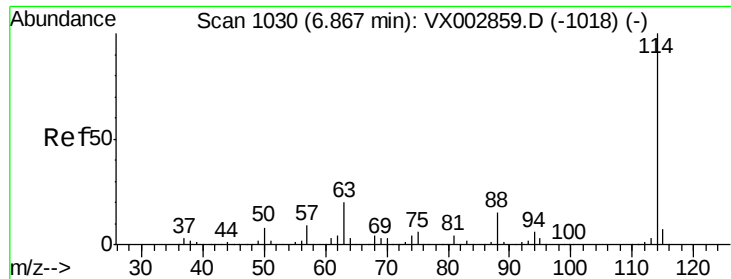
Tot Ion: 42 Resp: 1299
Ion Ratio Lower Upper
42 100
72 28.3 32.0 48.0#
71 26.3 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 48.63 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

Tgt Ion: 65 Resp: 156541
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampleId :

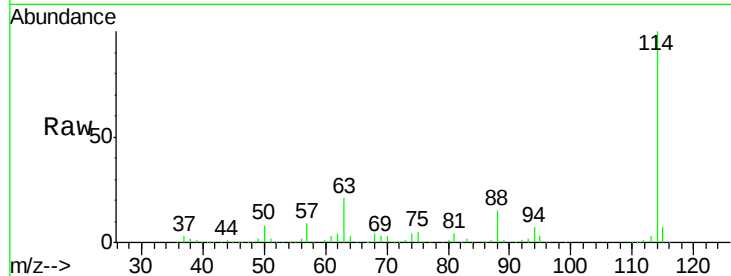
Tot Ion:114 Resp: 323406

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.4

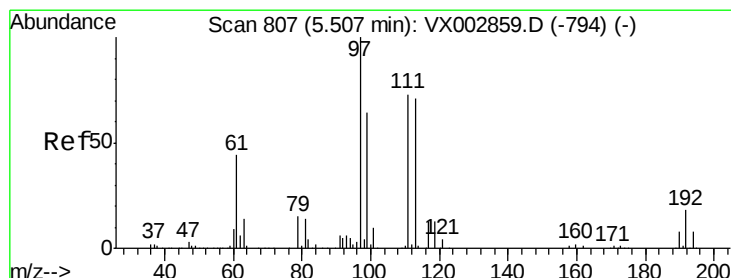
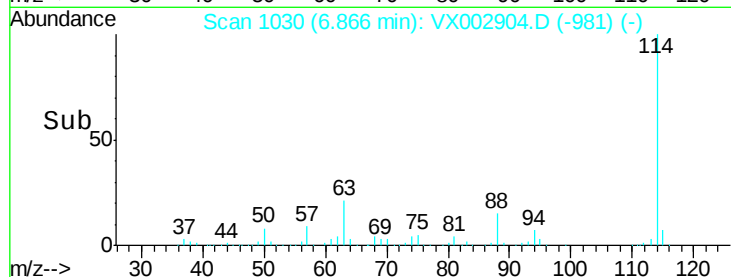
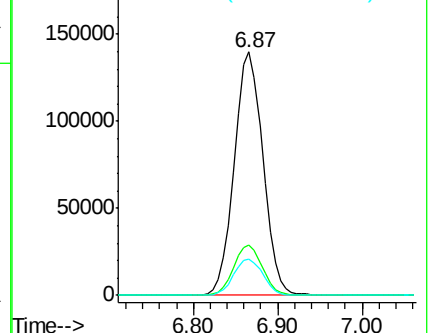
88 14.9 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.48 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

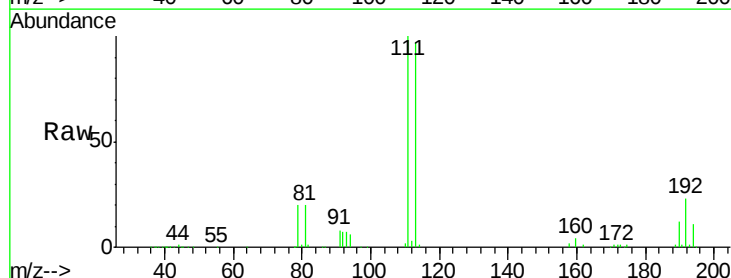
Tgt Ion:113 Resp: 124151

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

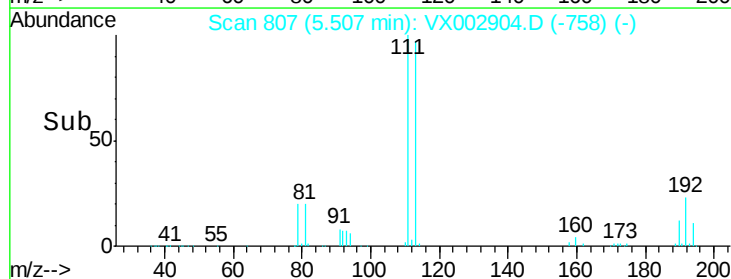
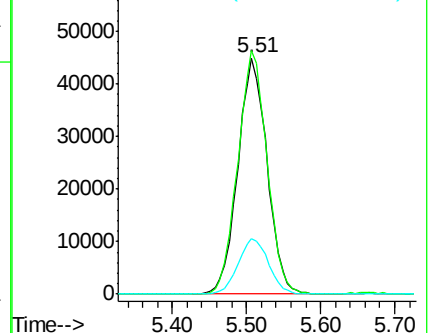
192 24.2 19.1 28.7

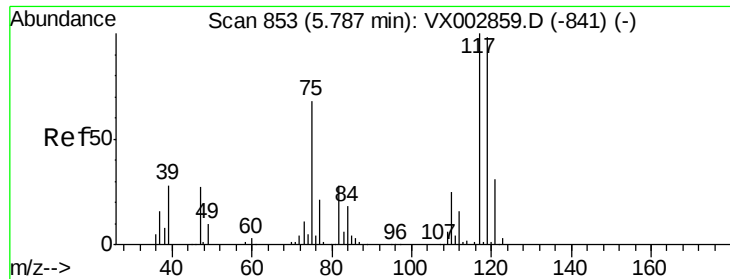


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.52 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampleId :

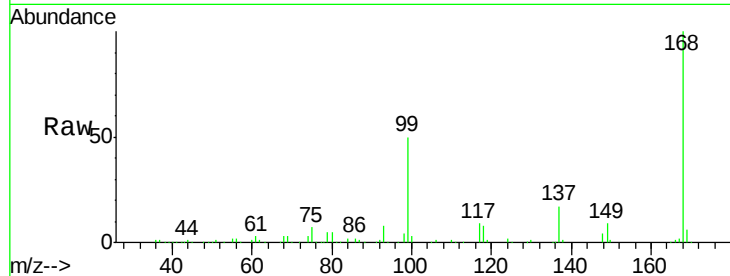
Tot Ion:117 Resp: 21487

Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

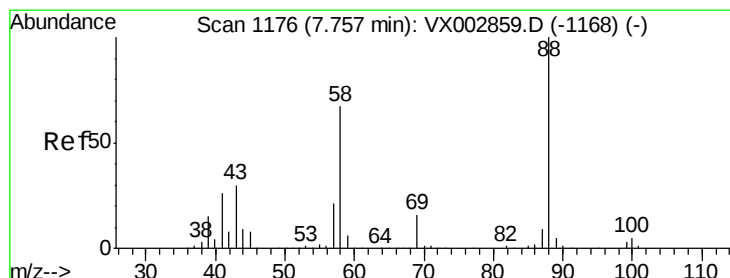
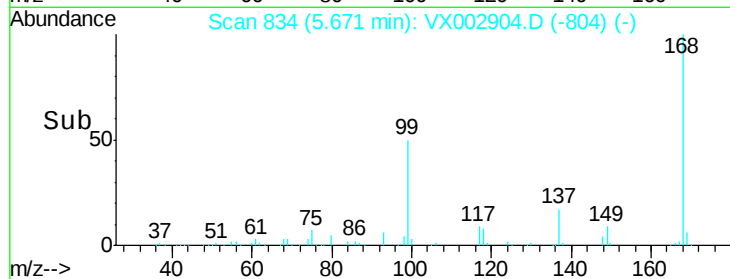
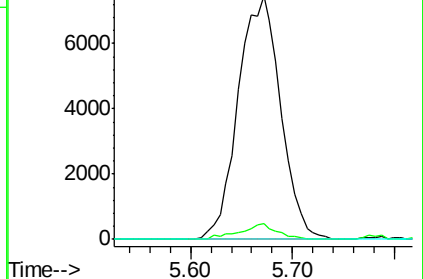
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.30 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

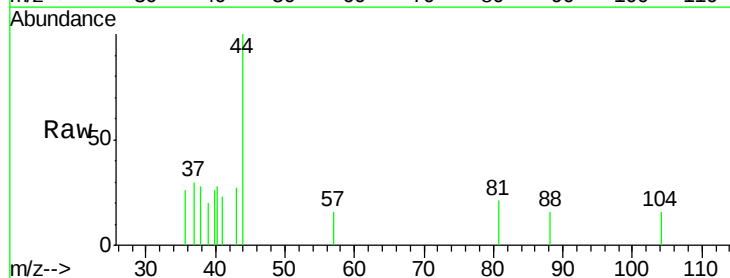
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1768.4 29.8 44.6#

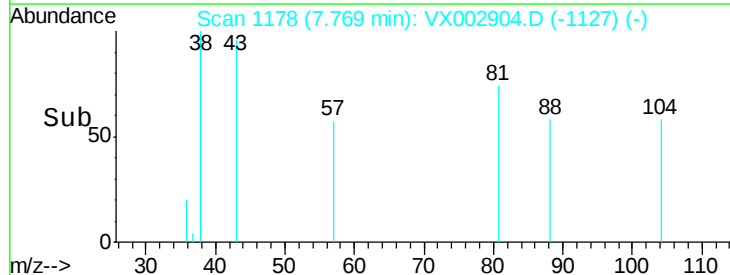
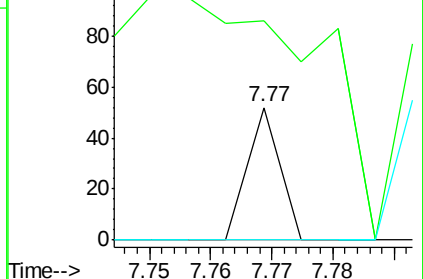
58 0.0 57.1 85.7#

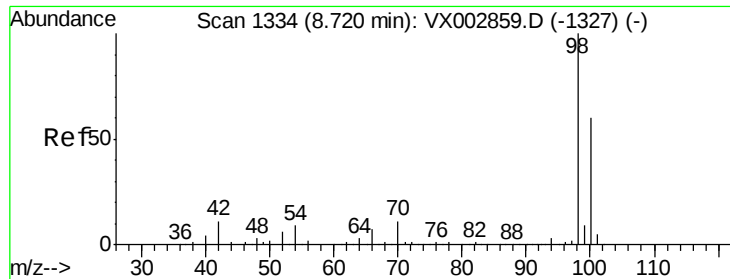


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

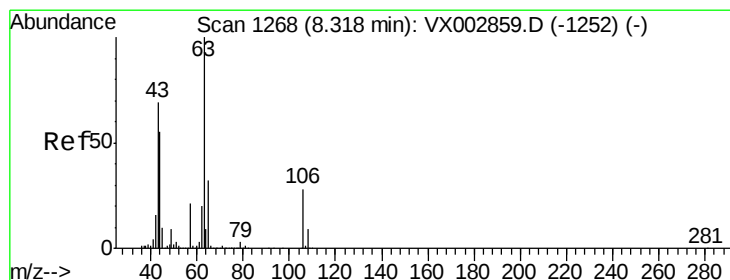
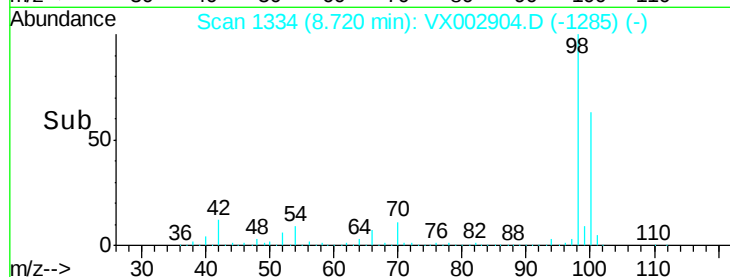
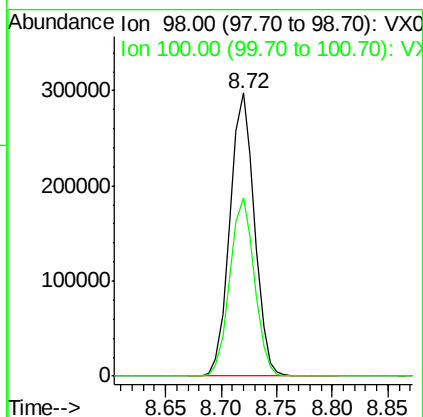
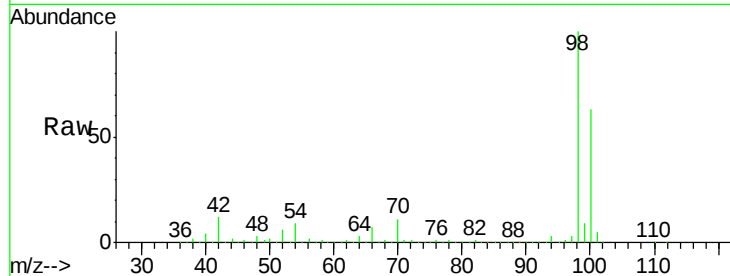




#50
Toluene-d8
Concen: 48.71 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

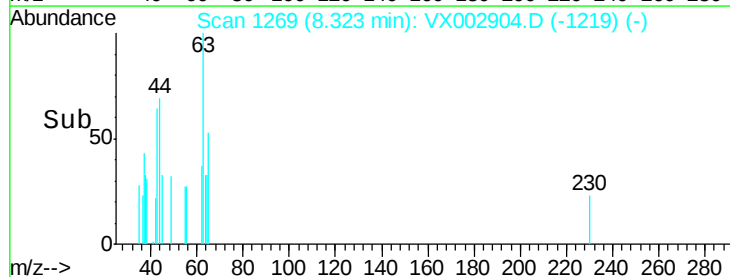
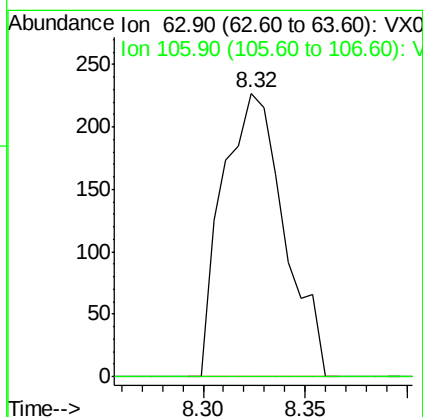
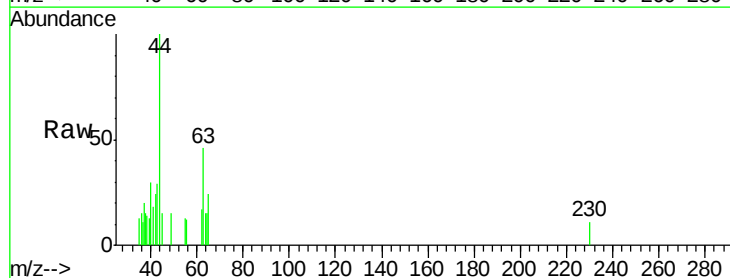
Instrument :
MSVOA_X
ClientSampleId :

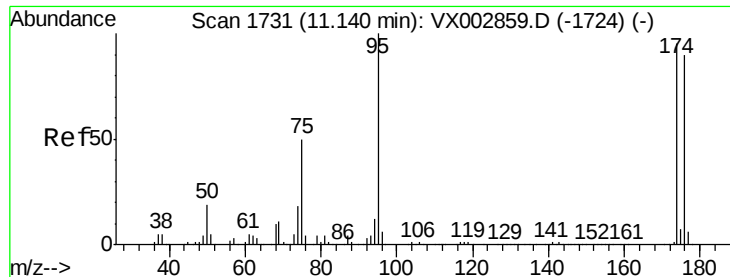
Tot Ion: 98 Resp: 455550
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



#58
2-Chloroethyl Vinyl ether
Concen: 0.25 ug/l
RT: 8.32 min Scan# 1269
Delta R.T. 0.01 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

Tgt Ion: 63 Resp: 479
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.8#

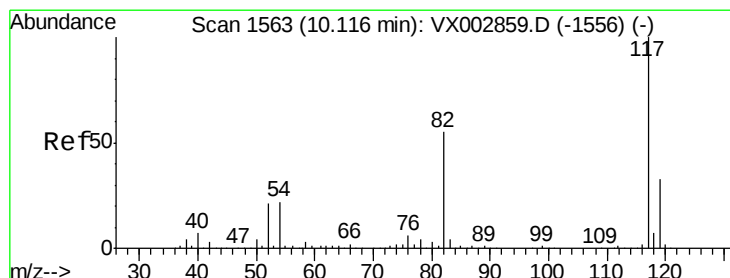
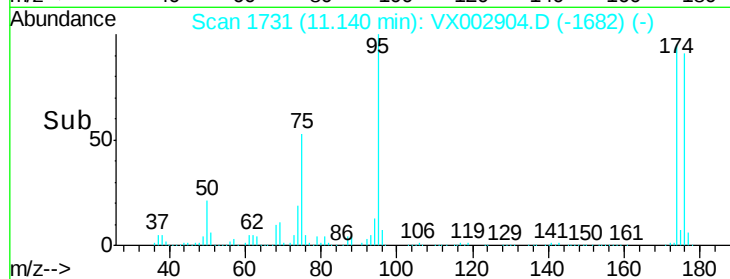
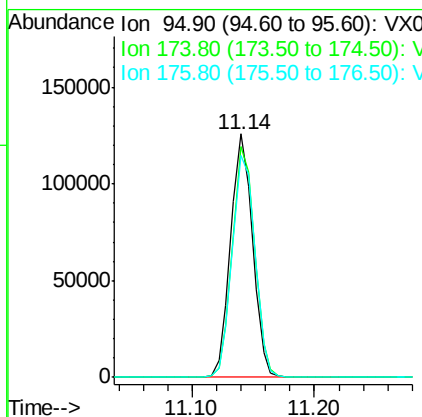
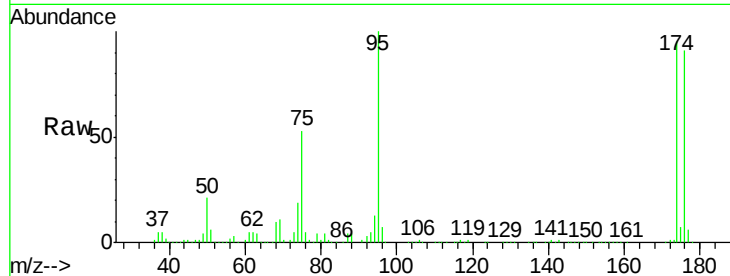




#62
4-Bromofluorobenzene
Concen: 43.21 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

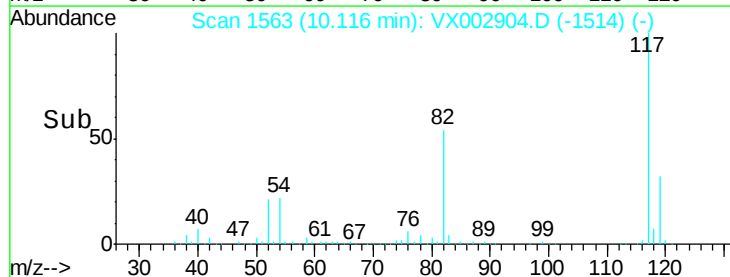
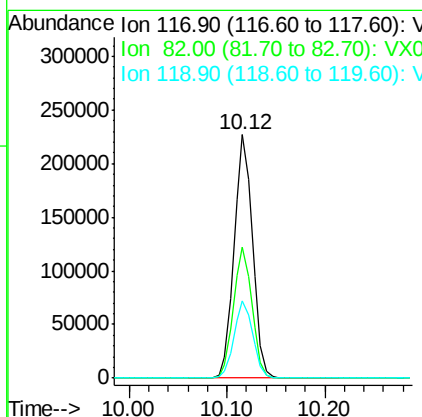
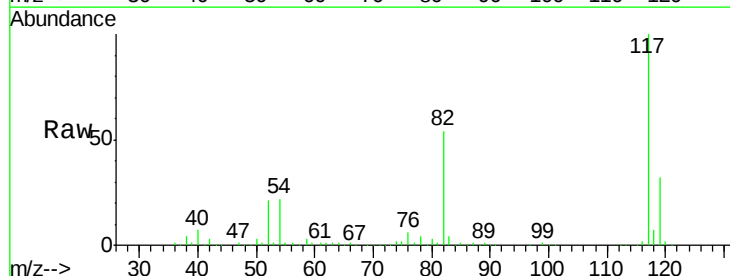
Instrument :
MSVOA_X
ClientSampleId :

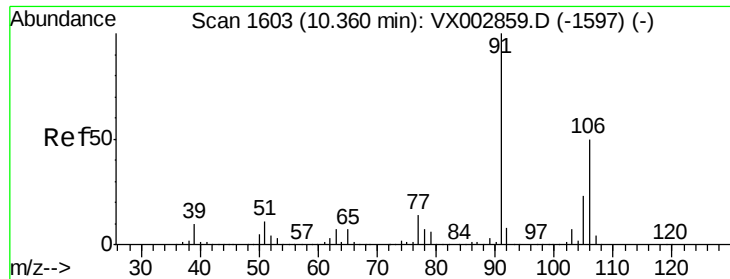
Tot Ion: 95 Resp: 155853
Ion Ratio Lower Upper
95 100
174 96.7 0.0 187.4
176 94.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

Tgt Ion: 117 Resp: 297509
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 31.5 25.8 38.6

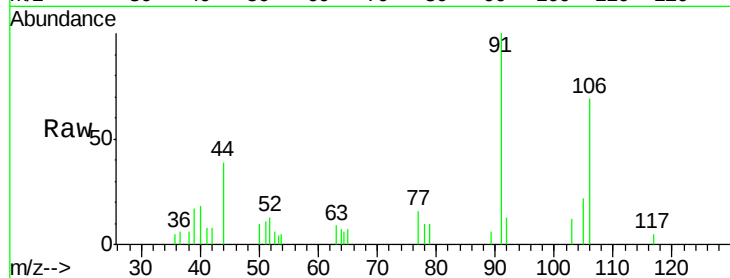




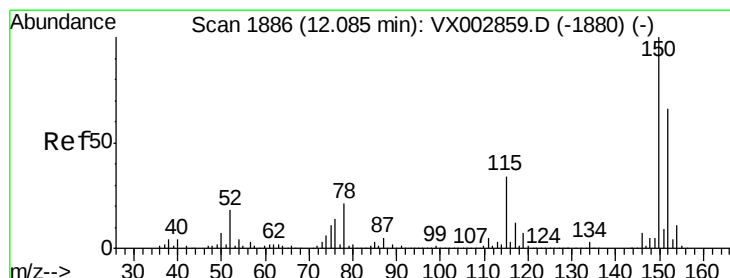
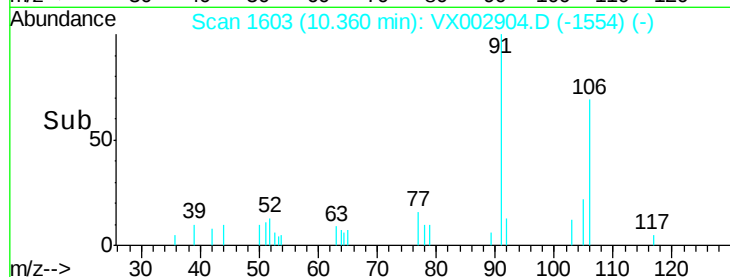
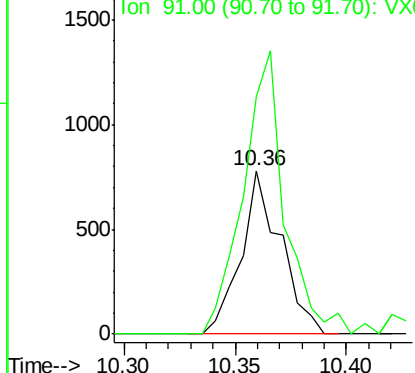
#68
m/p-Xvlenes
Concen: 0.20 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:106 Resp: 967
Ion Ratio Lower Upper
106 100
91 184.0 163.4 245.2

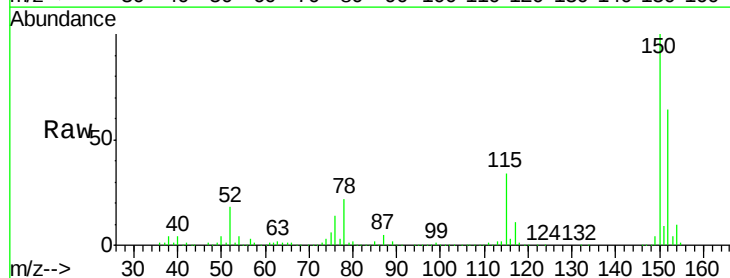


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

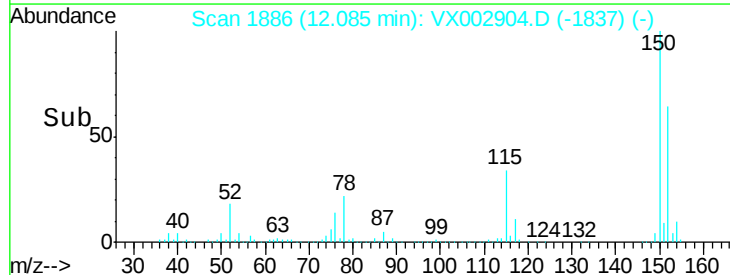
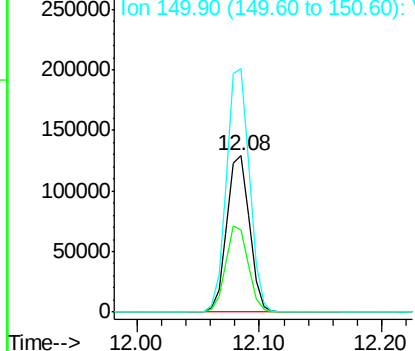


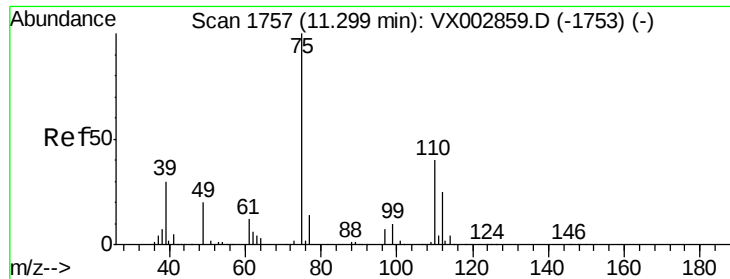
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002904.D
Acq: 26 Jun 2018 19:45

Tgt Ion:152 Resp: 165106
Ion Ratio Lower Upper
152 100
115 54.9 40.1 120.2
150 157.1 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

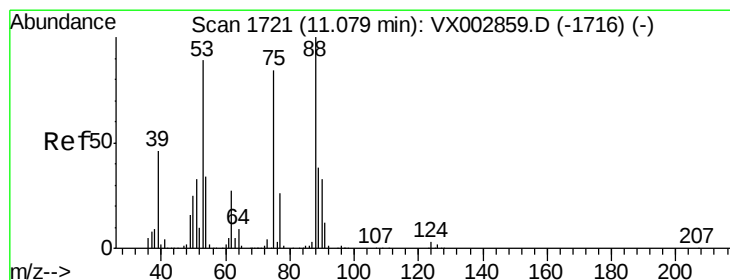
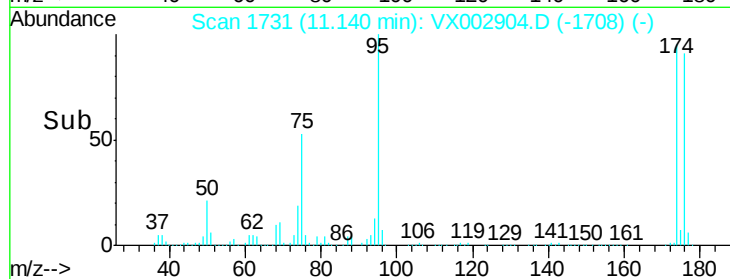
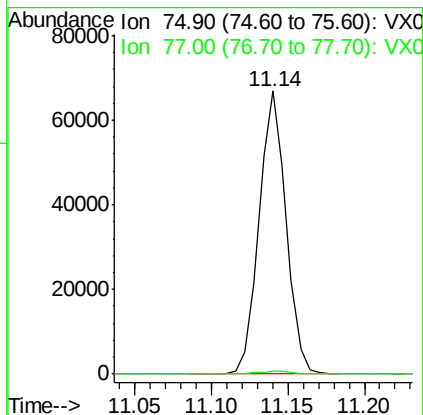
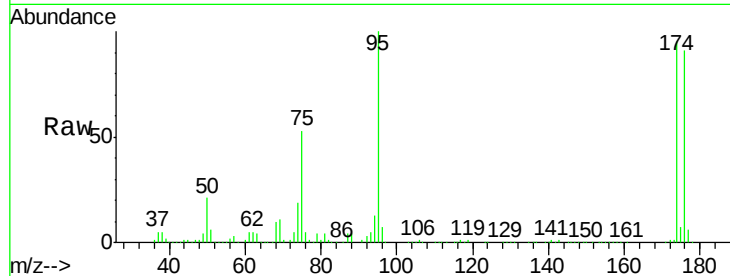




#76
 1,2,3-Trichloropropane
 Concen: 27.56 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002904.D
 Acq: 26 Jun 2018 19:45

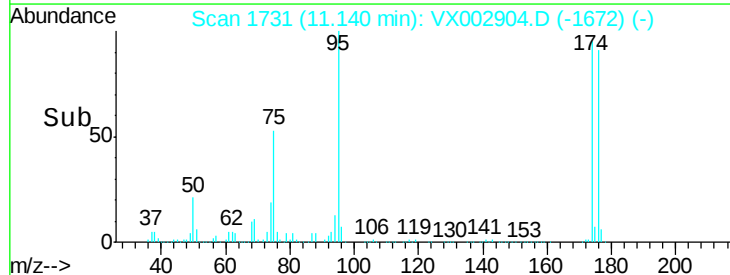
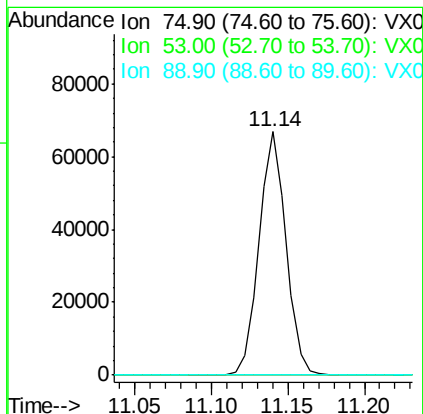
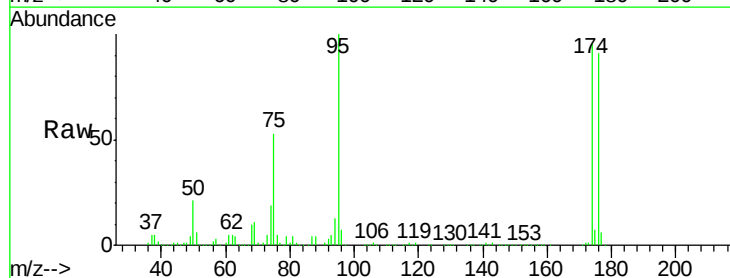
Instrument :
 MSVOA_X
 ClientSampleId :

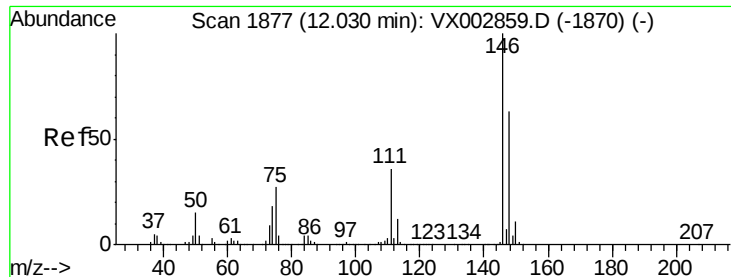
Tot Ion: 75 Resp: 82417
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.94 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002904.D
 Acq: 26 Jun 2018 19:45

Tgt Ion: 75 Resp: 82417
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#





#87

1,3-Dichlorobenzene

Concen: 0.20 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampled :

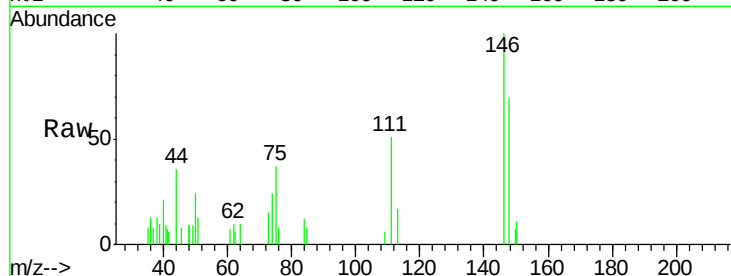
Tot Ion:146 Resp: 1172

Ion Ratio Lower Upper

146 100

111 50.8 18.9 56.7

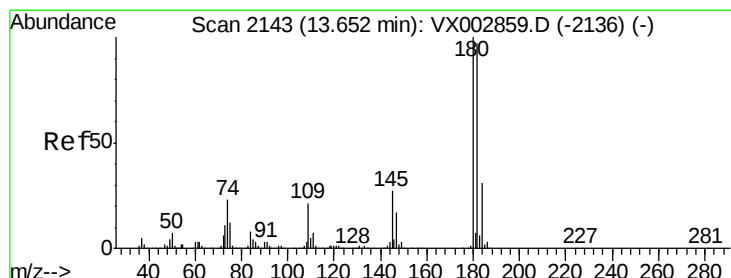
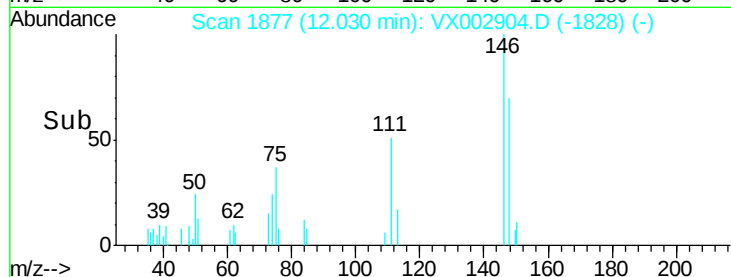
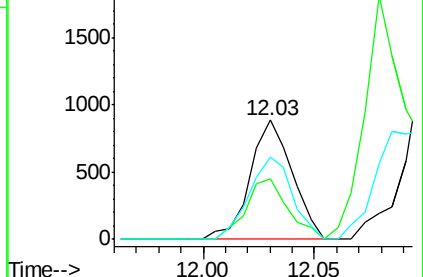
148 70.6 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.33 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.01 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

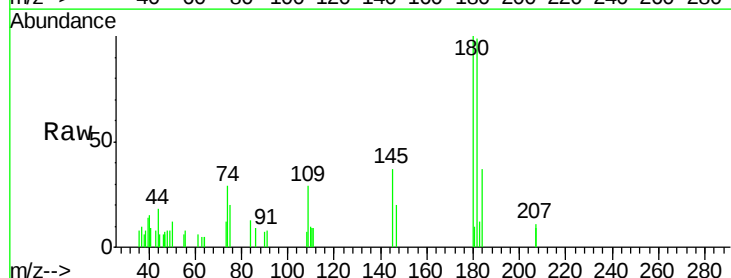
Tgt Ion:180 Resp: 1417

Ion Ratio Lower Upper

180 100

182 98.2 47.7 143.1

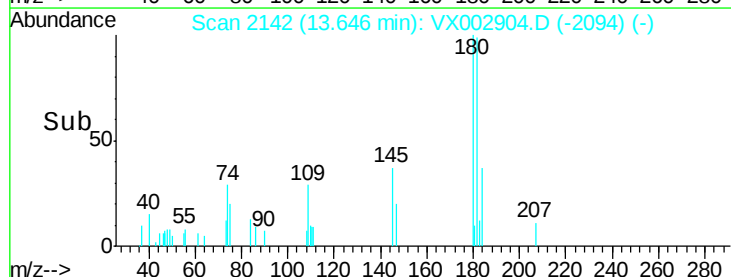
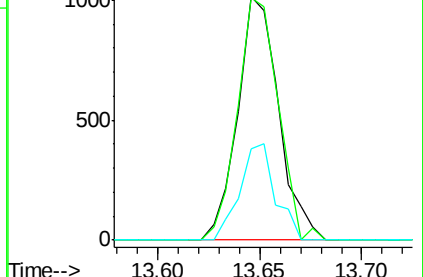
145 34.2 14.1 42.4

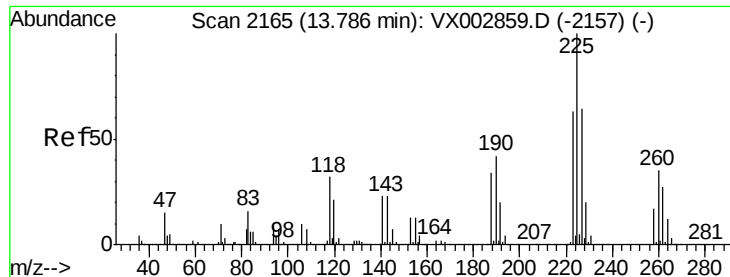


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.31 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

Instrument :

MSVOA_X

ClientSampleId :

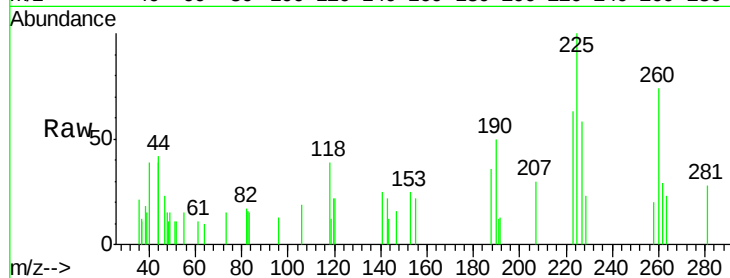
Tot Ion:225 Resp: 665

Ion Ratio Lower Upper

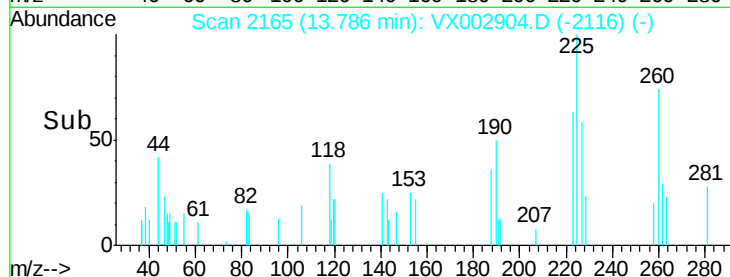
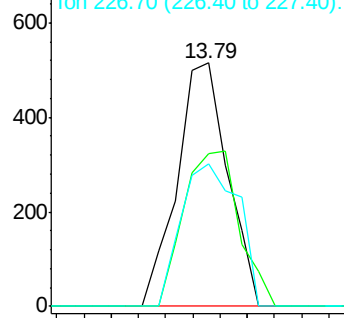
225 100

223 70.2 31.6 95.0

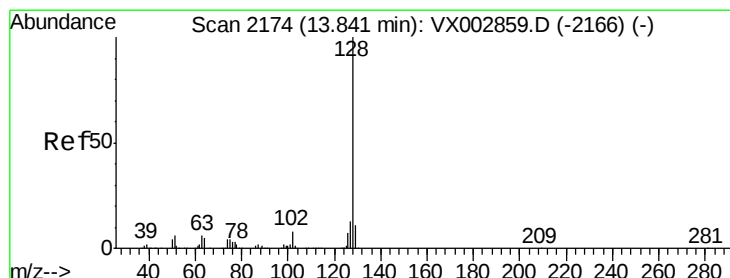
227 65.7 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 0.29 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002904.D

Acq: 26 Jun 2018 19:45

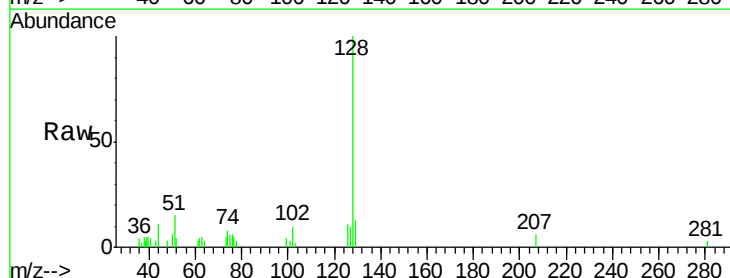
Tgt Ion:128 Resp: 3285

Ion Ratio Lower Upper

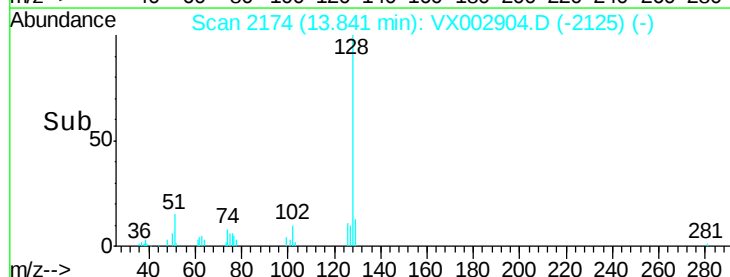
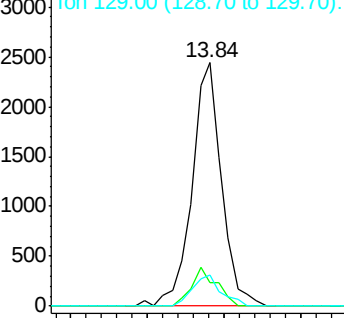
128 100

127 13.5 10.4 15.6

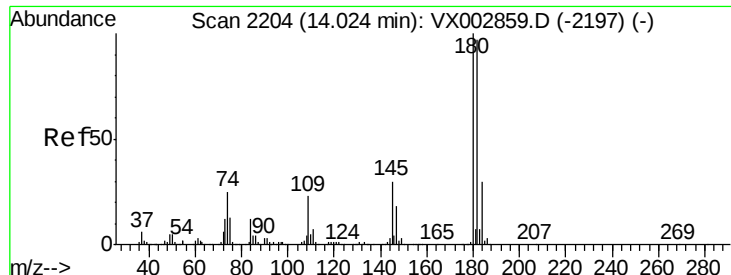
129 12.4 8.6 13.0



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



Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 0.36 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VX002904.D
 Acq: 26 Jun 2018 19:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.6	48.0	144.0
145	28.3	14.8	44.3

