

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006671.D
 Acq On : 20 Dec 2018 13:07
 Operator : JC/MD
 Sample : J6484-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:30:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	655690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1028967	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	946011	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	451641	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	351515	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
35) Dibromofluoromethane	5.50	113	306423	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	8.71	98	1223327	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
62) 4-Bromofluorobenzene	11.13	95	439927	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	

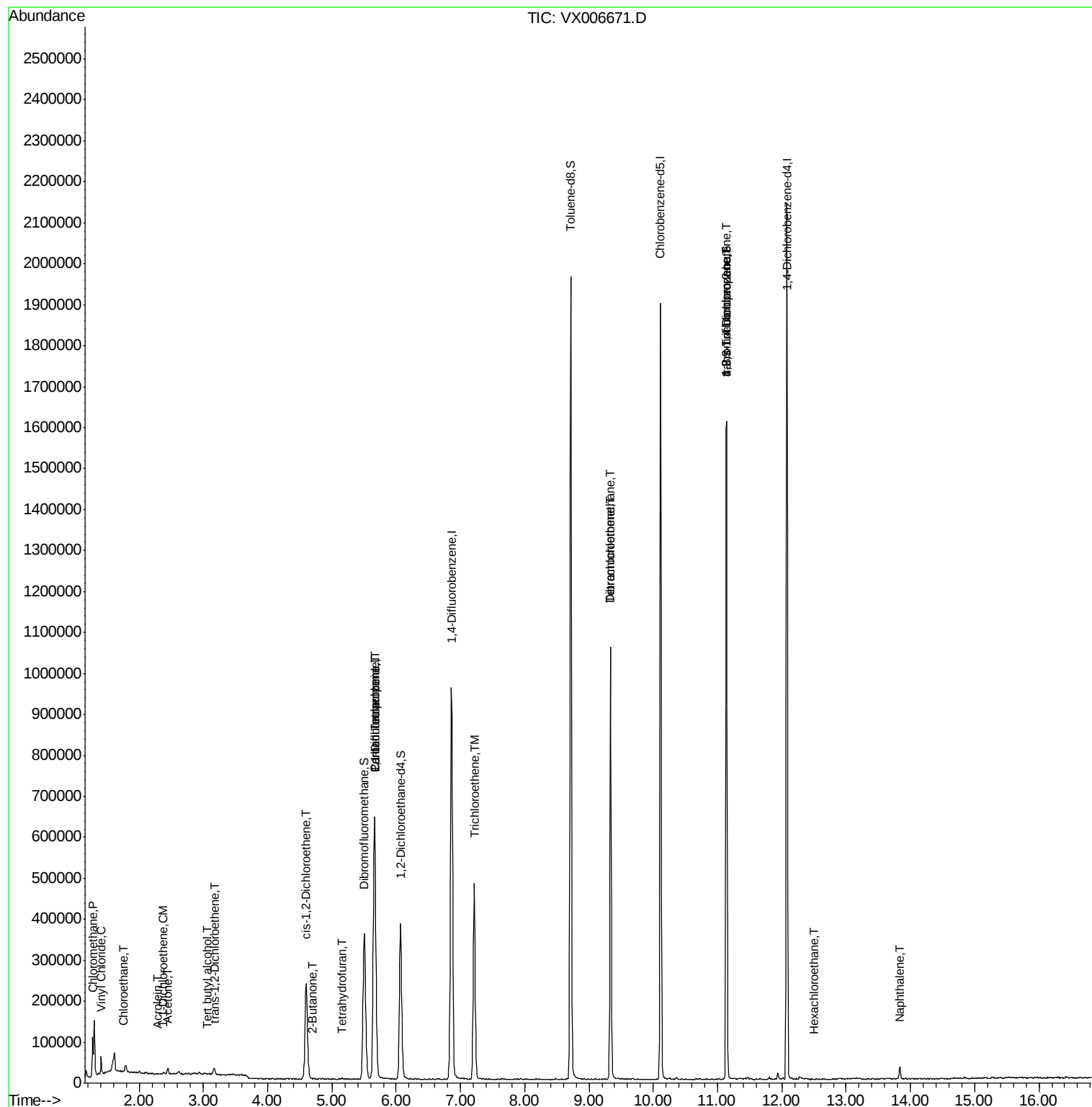
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.28	50	1981	0.307	ug/l #	53
4) Vinyl Chloride	1.41	62	8952	1.326	ug/l	97
5) Bromomethane	1.62	94	266	Below Cal	#	7
6) Chloroethane	1.76	64	2416	0.517	ug/l #	42
11) Tert butyl alcohol	3.06	59	1462	0.927	ug/l #	70
12) 1,1-Dichloroethene	2.37	96	1549	0.264	ug/l #	72
13) Acrolein	2.29	56	441	0.415	ug/l #	13
16) Acetone	2.45	43	12729	3.921	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	6972	1.074	ug/l	92
25) 2-Butanone	4.70	43	3062	0.670	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	161566	22.560	ug/l	92
28) Bromochloromethane	5.04	49	155	Below Cal	#	3
29) Tetrahydrofuran	5.16	42	2516	0.836	ug/l #	52
36) 1,1-Dichloropropene	5.67	75	42792	5.021	ug/l #	48
38) Carbon Tetrachloride	5.66	117	61413	7.415	ug/l #	15
44) Trichloroethene	7.21	130	194707	24.833	ug/l	99
49) 1,4-Dioxane	7.73	88	78	Below Cal	#	1
60) Dibromochloromethane	9.33	129	191480	27.808	ug/l #	10
64) Tetrachloroethene	9.33	164	207267	27.669	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	205121	24.438	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	205121	72.310	ug/l #	10
90) Hexachloroethane	12.51	117	40	3.302	ug/l	93
95) Naphthalene	13.83	128	22873	0.690	ug/l	97

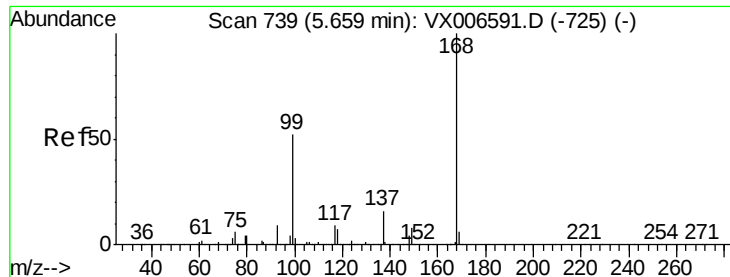
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Dec 21 03:30:02 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
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Response via : Initial Calibration



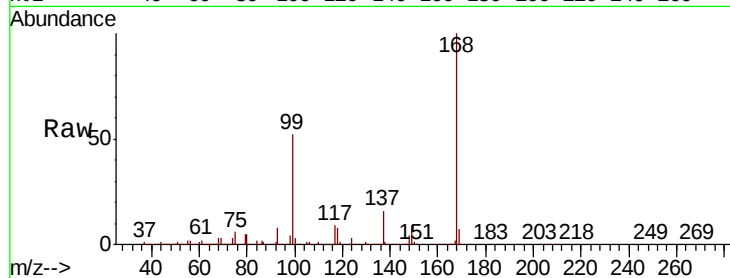


#1

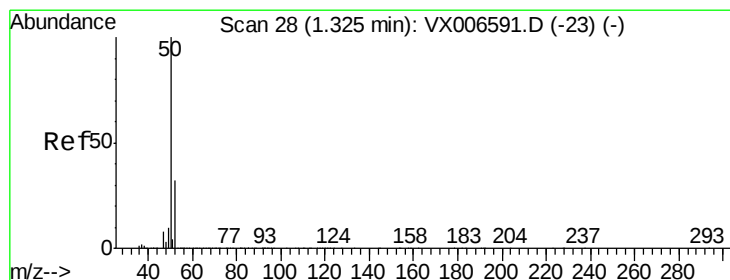
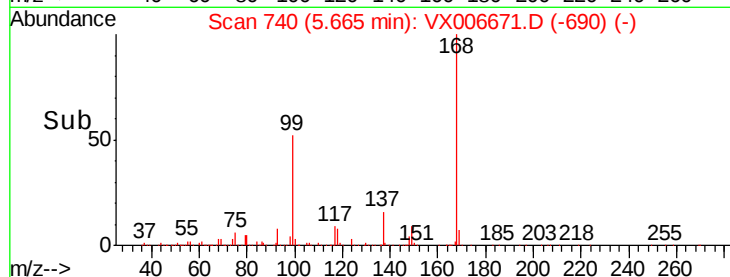
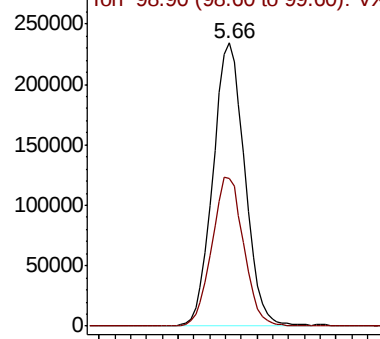
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: VX006671.D
 Acq: 20 Dec 2018 13:07

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:168 Resp: 655690
 Ion Ratio Lower Upper
 168 100
 99 52.1 41.8 62.8



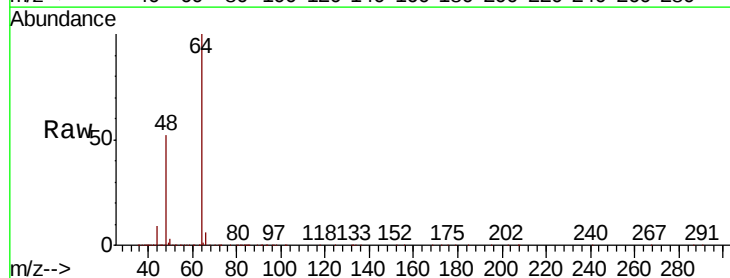
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



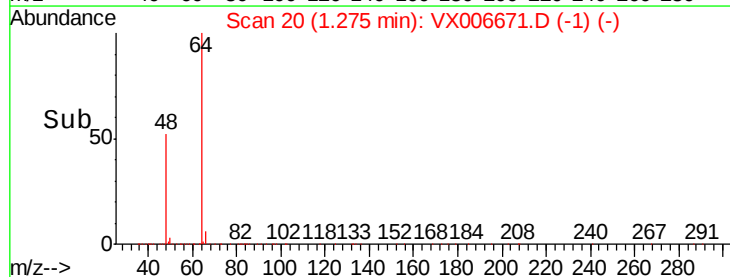
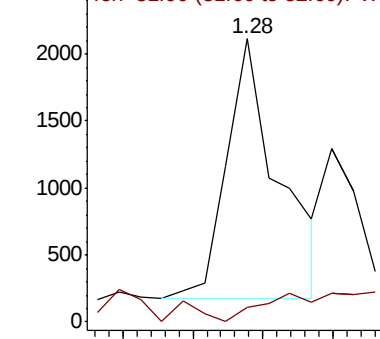
#3

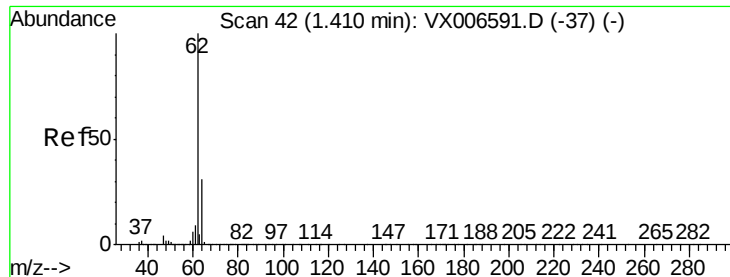
Chloromethane
 Concen: 0.307 ug/l
 RT: 1.28 min Scan# 20
 Delta R.T. -0.05 min
 Lab File: VX006671.D
 Acq: 20 Dec 2018 13:07

Tgt Ion: 50 Resp: 1981
 Ion Ratio Lower Upper
 50 100
 52 5.6 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.326 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

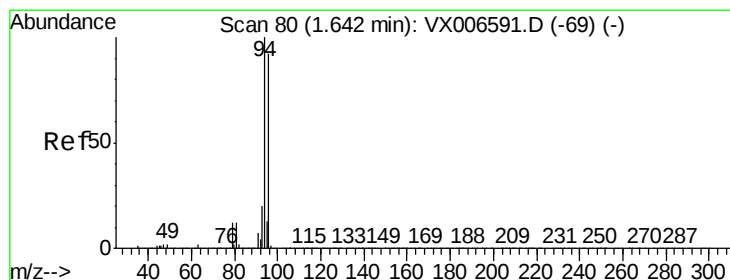
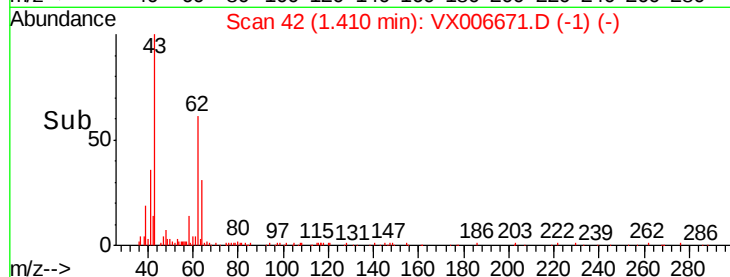
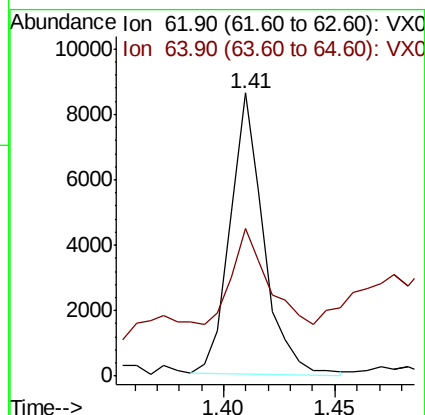
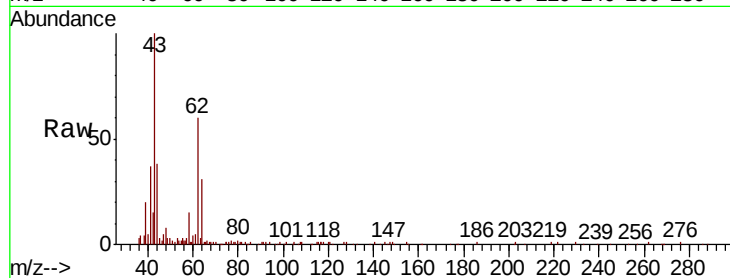
ClientSampled :

Tot Ion: 62 Resp: 8952

Ion Ratio Lower Upper

62 100

64 33.2 25.1 37.7



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 77

Delta R.T. -0.02 min

Lab File: VX006671.D

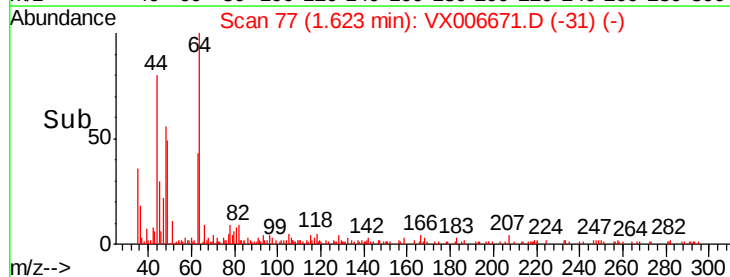
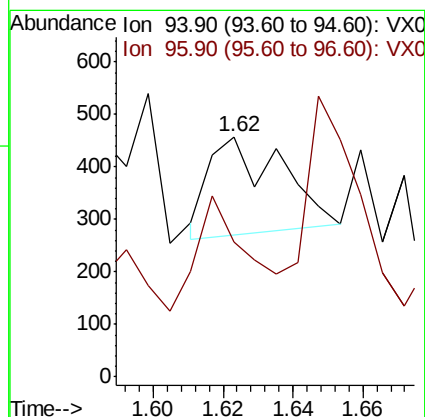
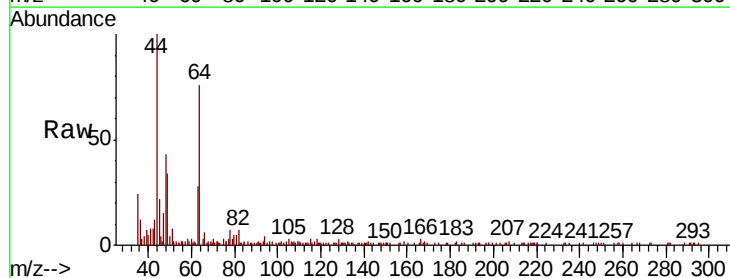
Acq: 20 Dec 2018 13:07

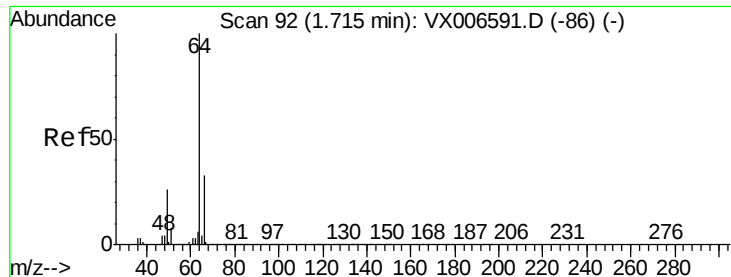
Tgt Ion: 94 Resp: 266

Ion Ratio Lower Upper

94 100

96 3.6 73.4 110.2#





#6

Chloroethane

Concen: 0.517 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

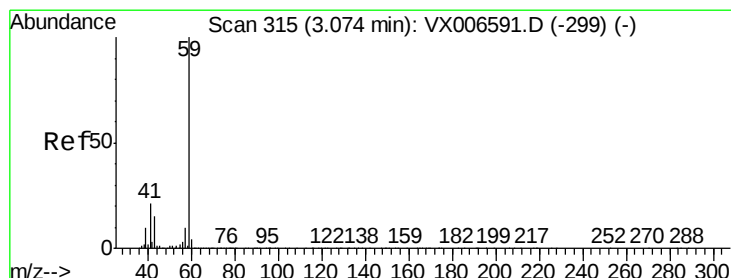
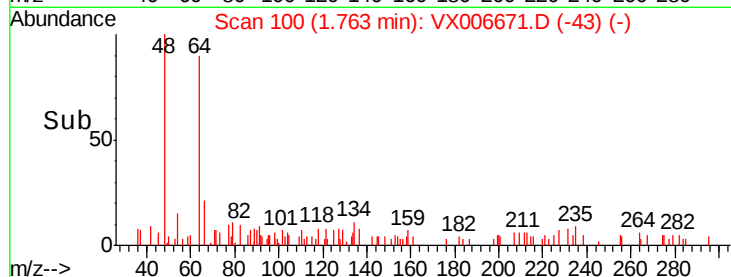
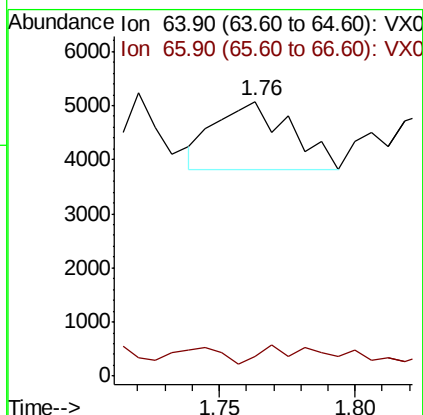
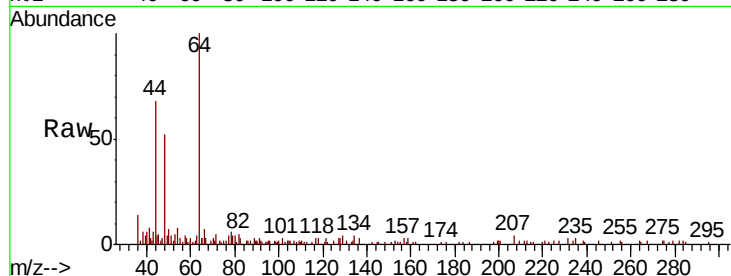
ClientSampleId :

Tot Ion: 64 Resp: 2416

Ion Ratio Lower Upper

64 100

66 0.1 26.4 39.6#



#11

Tert butyl alcohol

Concen: 0.927 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006671.D

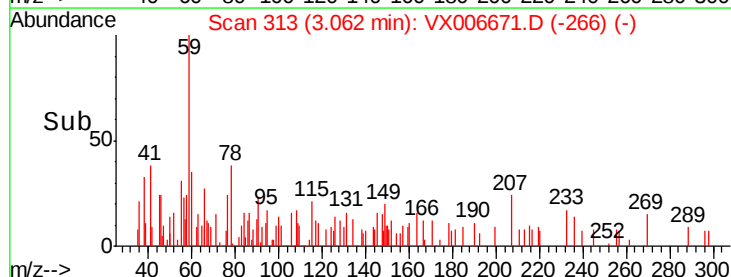
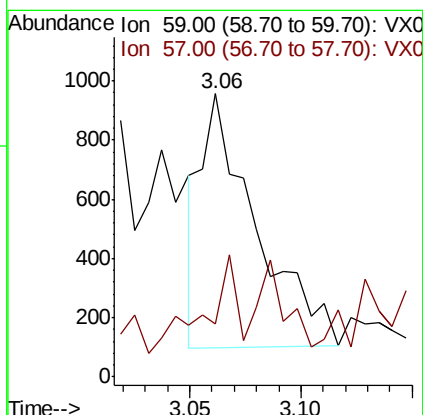
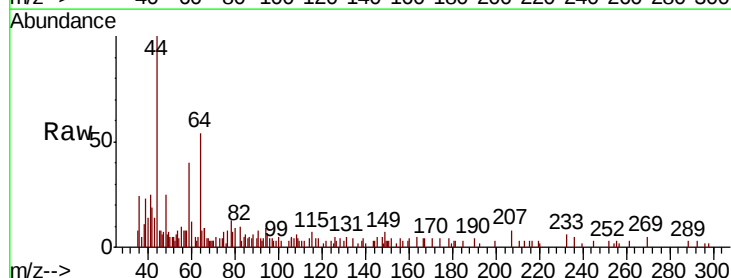
Acq: 20 Dec 2018 13:07

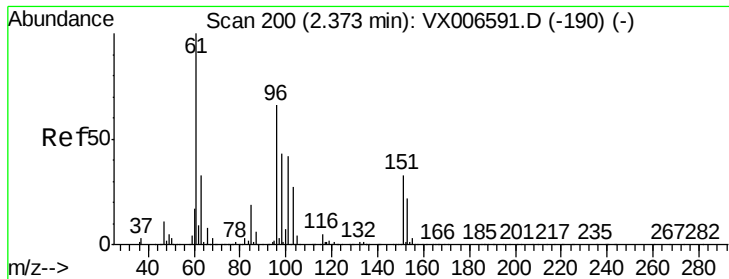
Tgt Ion: 59 Resp: 1462

Ion Ratio Lower Upper

59 100

57 21.9 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.264 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

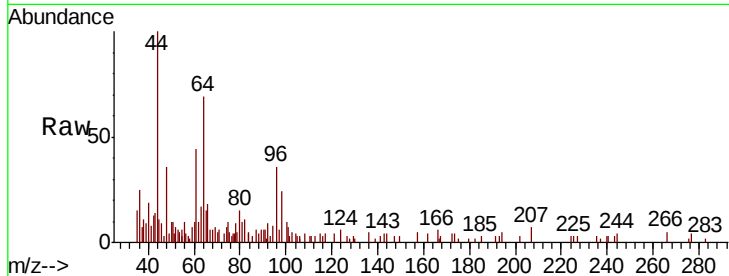
Tot Ion: 96 Resp: 1549

Ion Ratio Lower Upper

96 100

61 105.5 121.4 182.2#

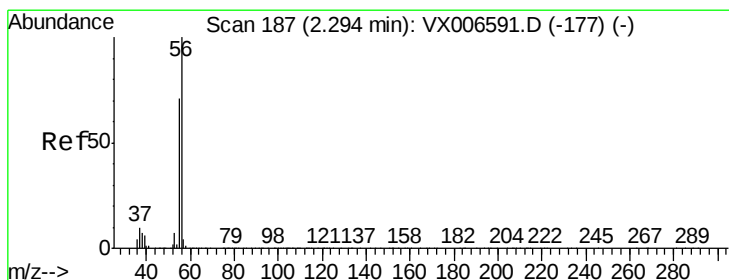
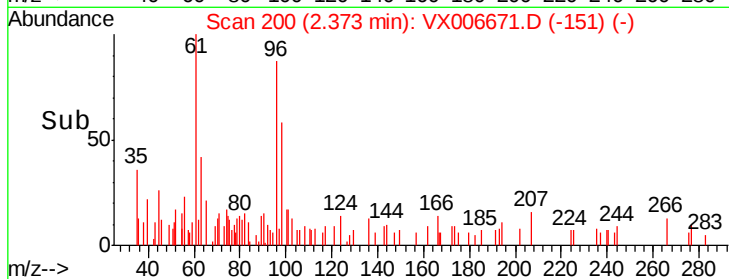
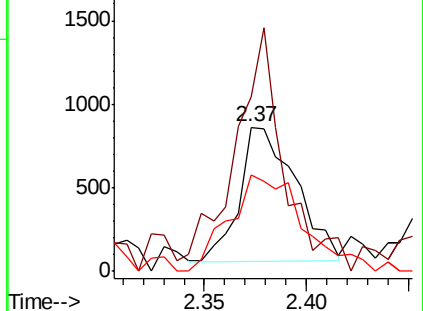
98 71.5 51.9 77.9



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: 0.415 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX006671.D

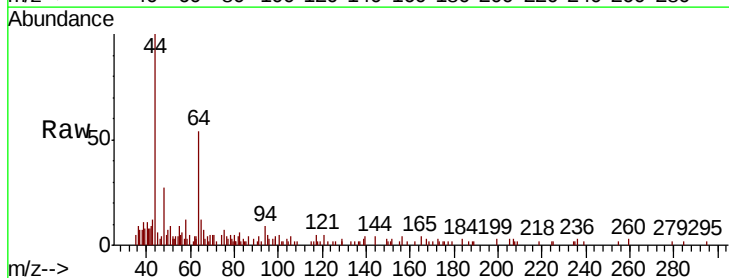
Acq: 20 Dec 2018 13:07

Tgt Ion: 56 Resp: 441

Ion Ratio Lower Upper

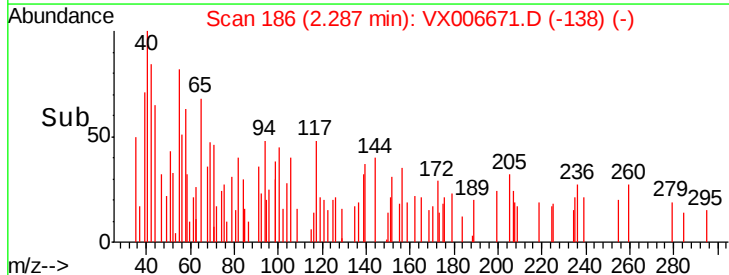
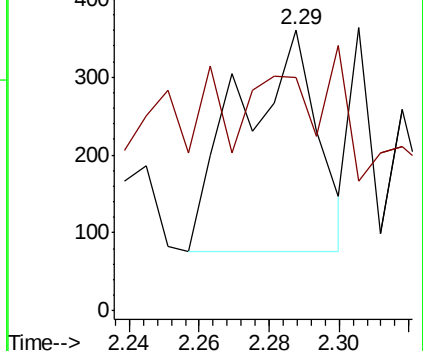
56 100

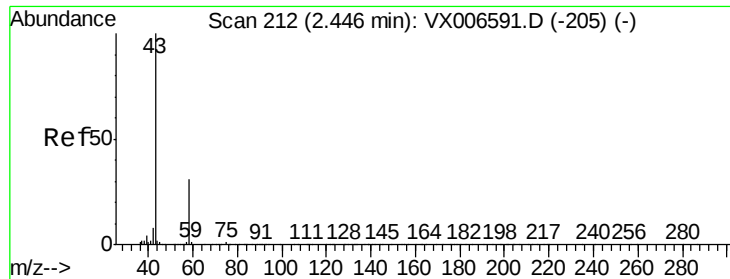
55 0.0 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

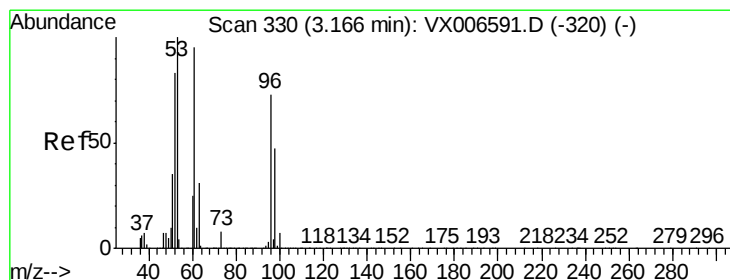
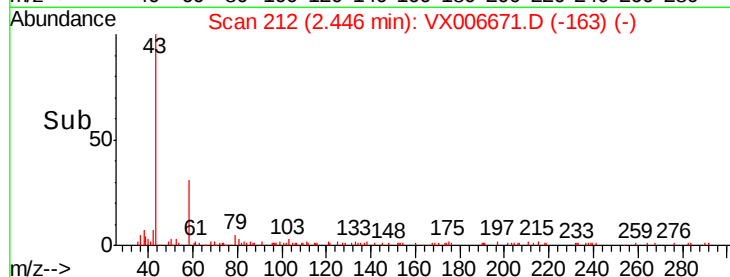
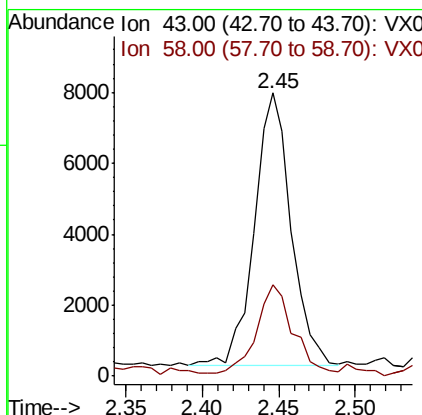
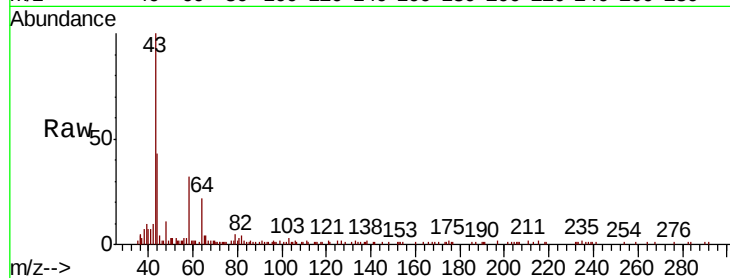




#16
Acetone
Concen: 3.921 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

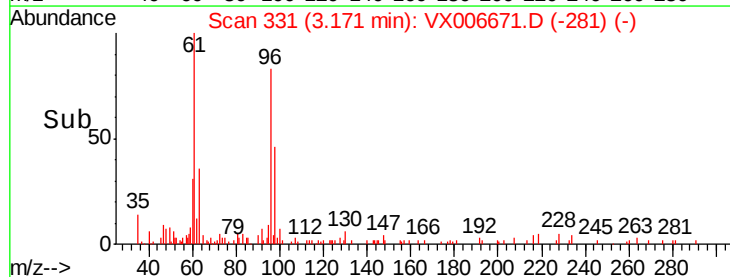
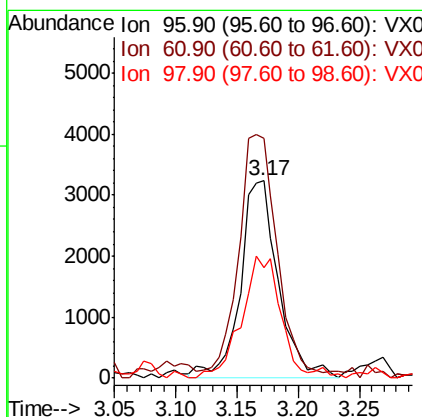
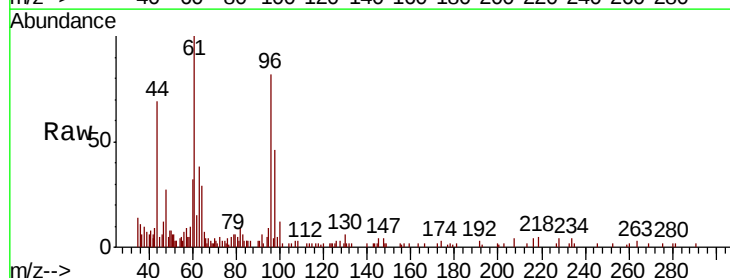
Instrument :
MSVOA_X
ClientSampleId :

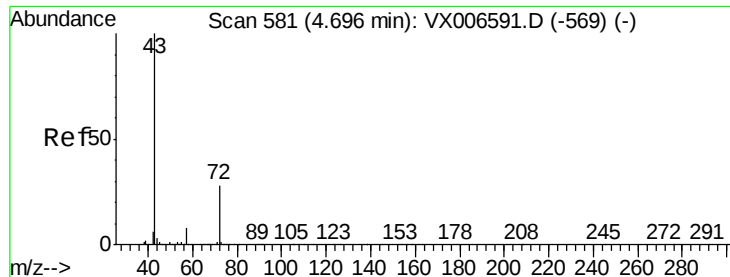
Tot Ion: 43 Resp: 12729
Ion Ratio Lower Upper
43 100
58 31.8 25.0 37.6



#21
trans-1,2-Dichloroethene
Concen: 1.074 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

Tgt Ion: 96 Resp: 6972
Ion Ratio Lower Upper
96 100
61 120.4 103.7 155.5
98 57.2 51.0 76.6





#25

2-Butanone

Concen: 0.670 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

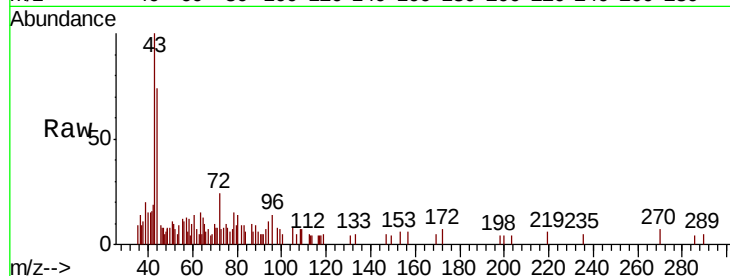
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 3062

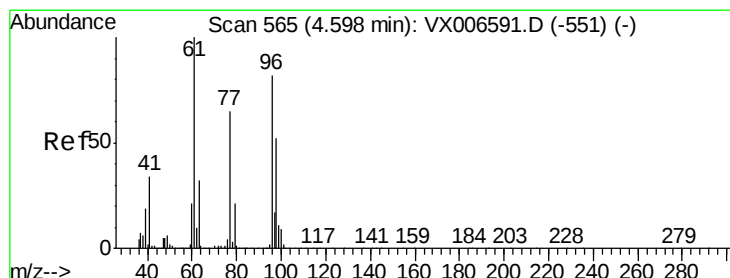
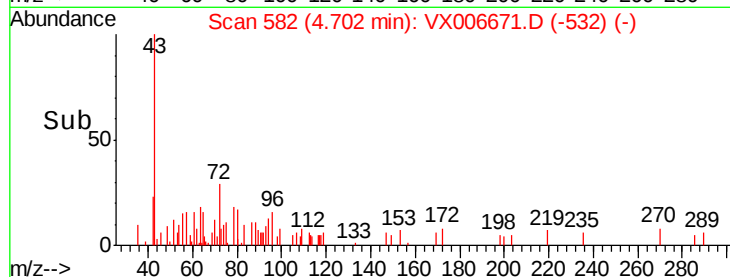
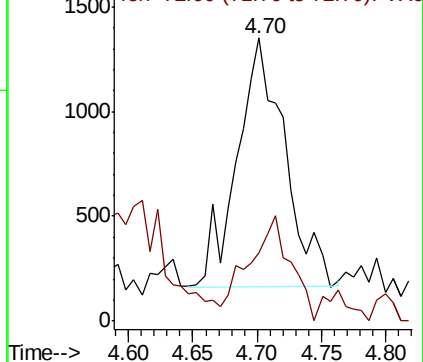
Ion Ratio Lower Upper

43 100

72 16.6 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 22.560 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

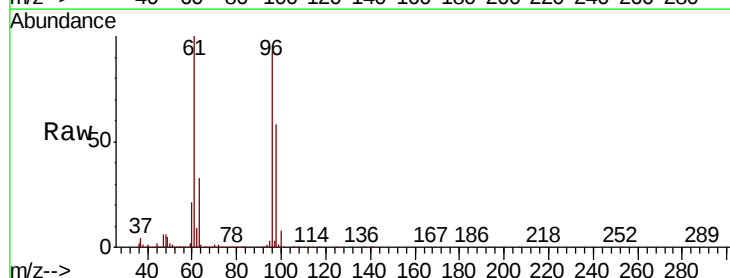
Tgt Ion: 96 Resp: 161566

Ion Ratio Lower Upper

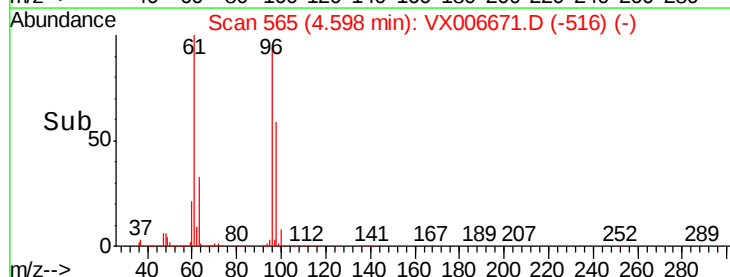
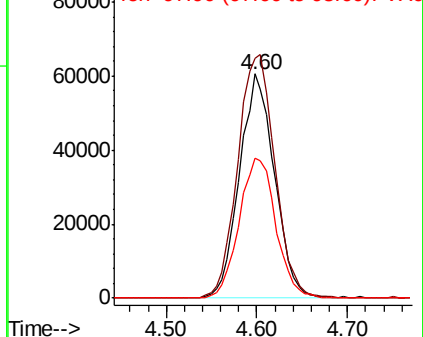
96 100

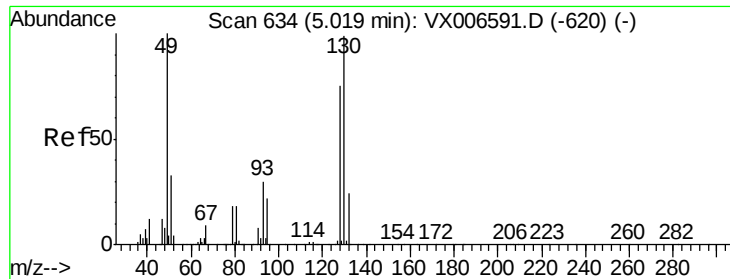
61 115.7 0.0 258.6

98 65.4 0.0 132.0



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

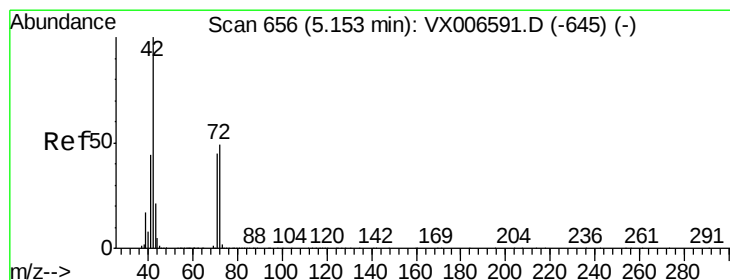
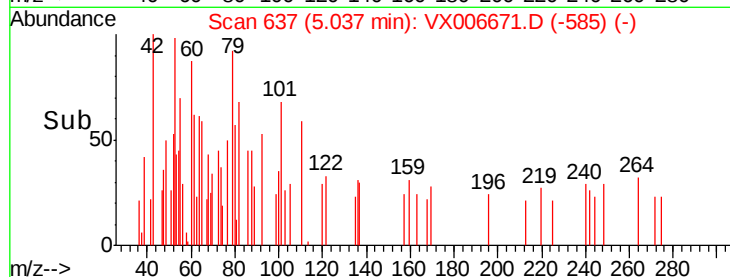
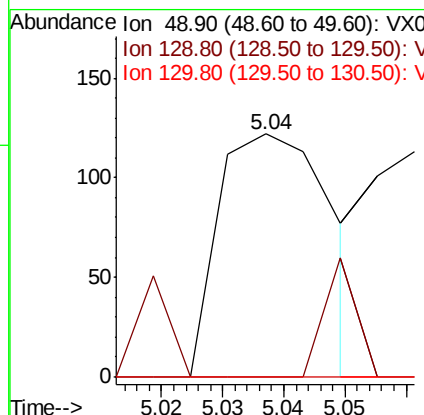
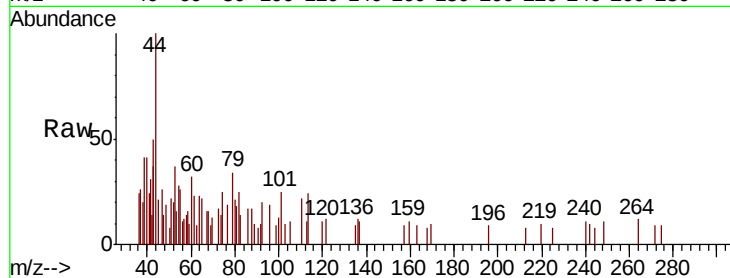
Delta R.T. 0.02 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 155
Ion Ratio Lower Upper
49 100
129 14.2 0.0 5.4#
130 0.0 77.7 116.5#



#29

Tetrahydrofuran

Concen: 0.836 ug/l

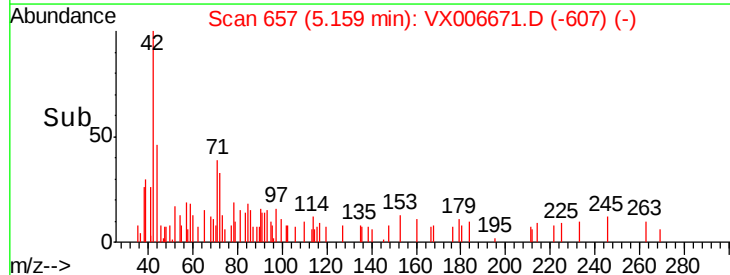
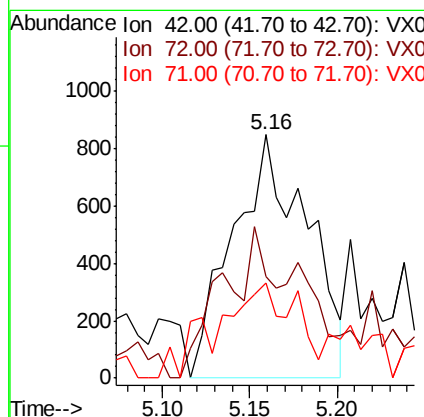
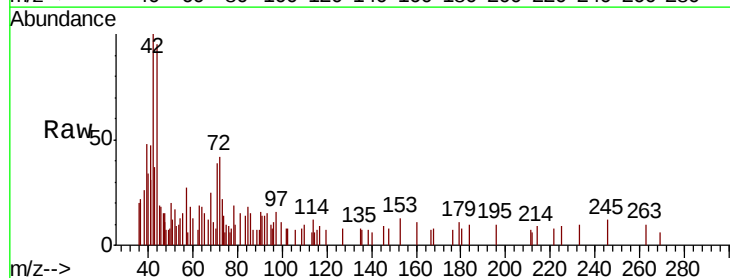
RT: 5.16 min Scan# 657

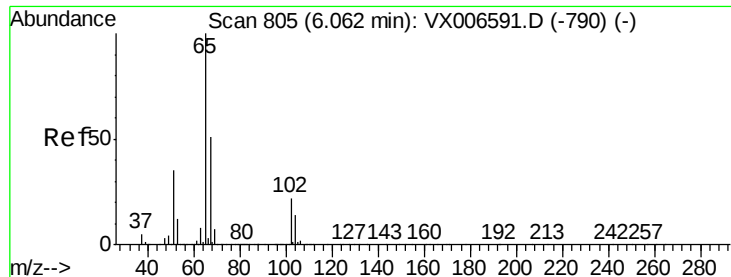
Delta R.T. 0.01 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Tgt Ion: 42 Resp: 2516
Ion Ratio Lower Upper
42 100
72 5.7 38.9 58.3#
71 24.0 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 49.742 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

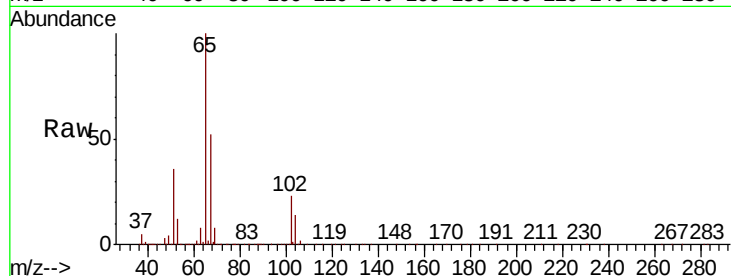
ClientSampleId :

Tot Ion: 65 Resp: 351515

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

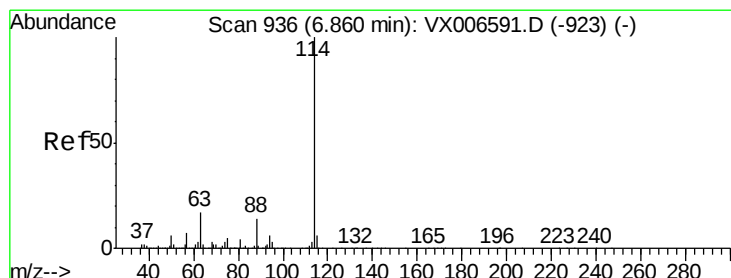
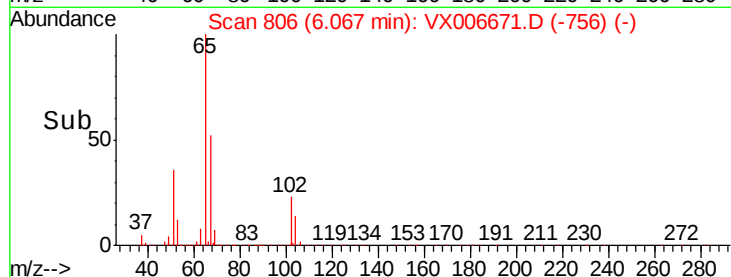
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

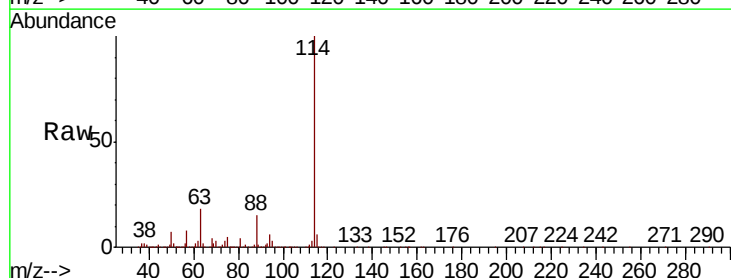
Tgt Ion: 114 Resp: 1028967

Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.8

88 14.9 0.0 28.8



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

600000

500000

400000

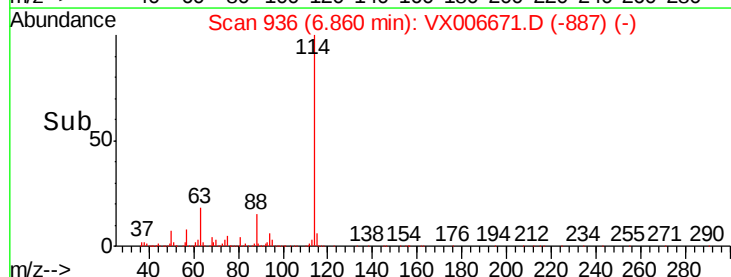
300000

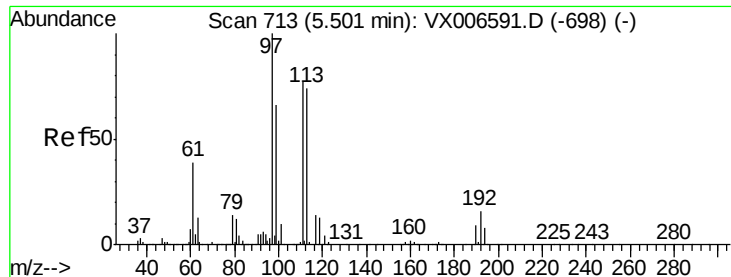
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.091 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :

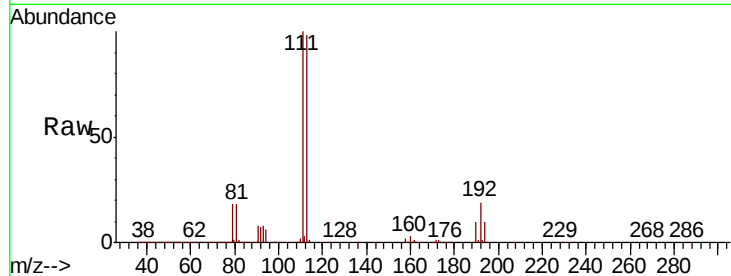
Tot Ion:113 Resp: 306423

Ion Ratio Lower Upper

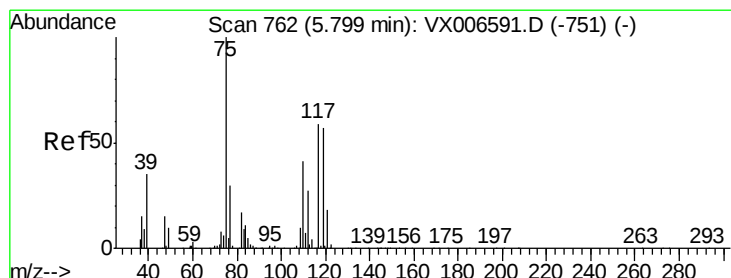
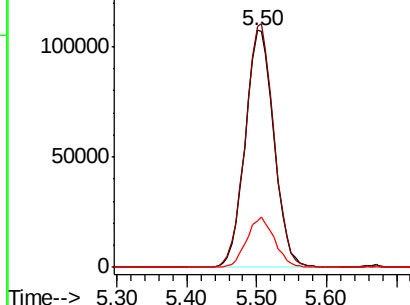
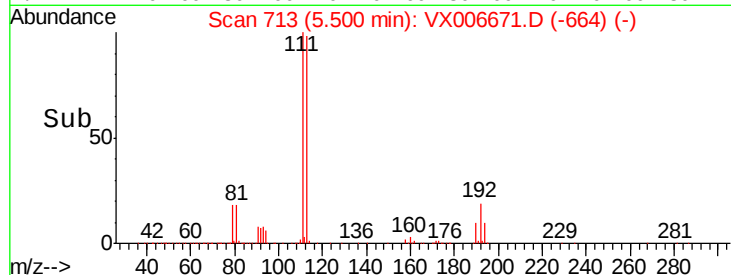
113 100

111 101.7 81.6 122.4

192 20.6 16.7 25.1



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: 5.021 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

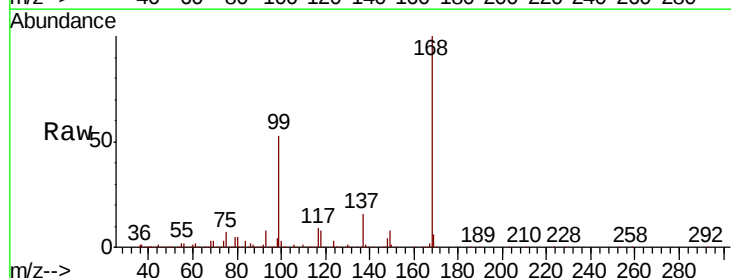
Tgt Ion: 75 Resp: 42792

Ion Ratio Lower Upper

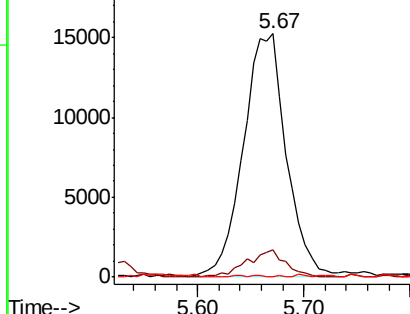
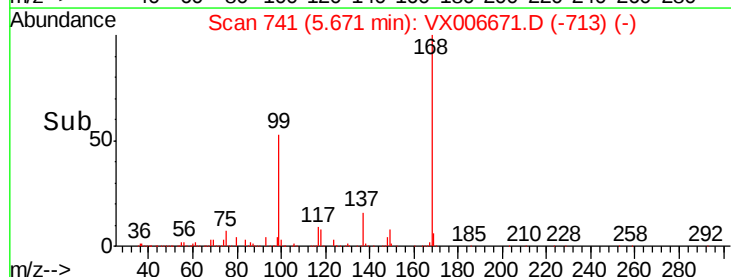
75 100

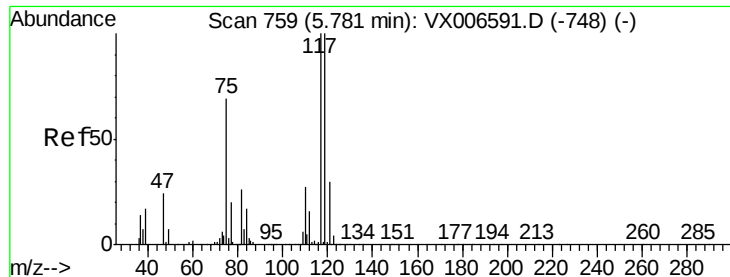
110 10.2 20.2 60.5#

77 0.1 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.415 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

ClientSampled :

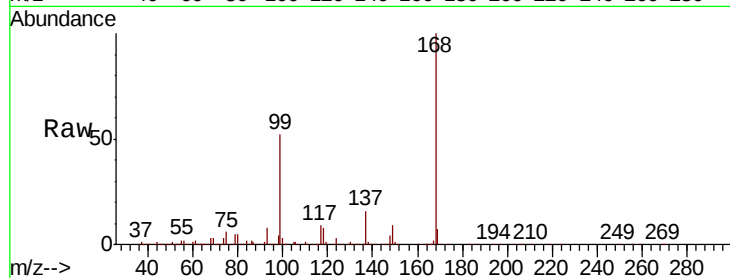
Tot Ion:117 Resp: 61413

Ion Ratio Lower Upper

117 100

119 5.5 79.4 119.2#

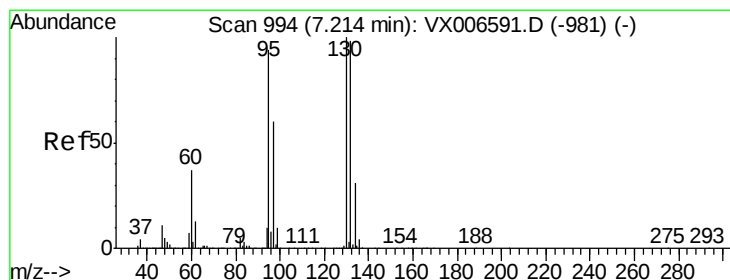
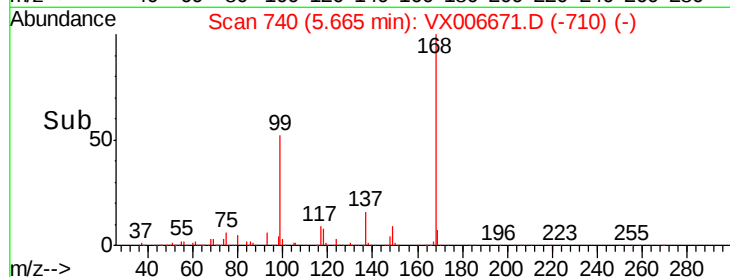
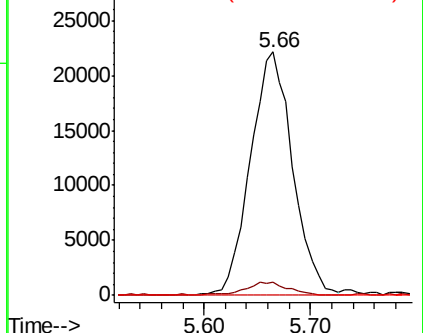
121 0.0 24.0 36.0#



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



#44

Trichloroethene

Concen: 24.833 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006671.D

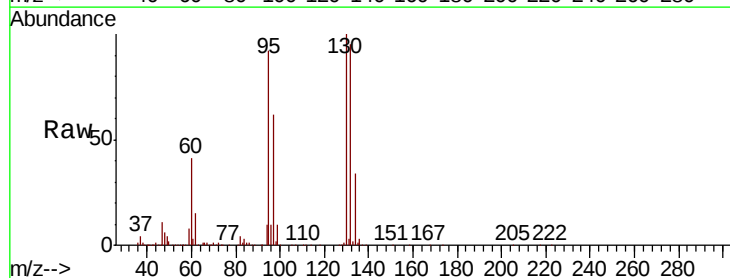
Acq: 20 Dec 2018 13:07

Tgt Ion:130 Resp: 194707

Ion Ratio Lower Upper

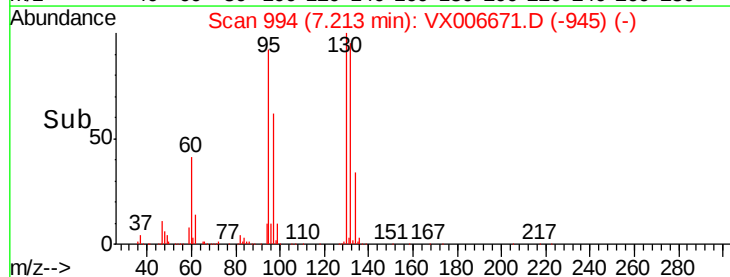
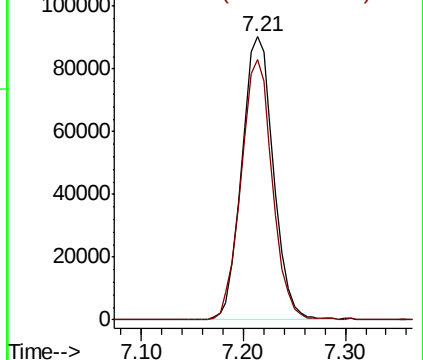
130 100

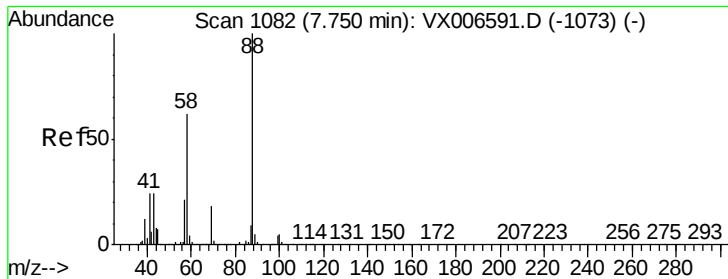
95 92.1 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

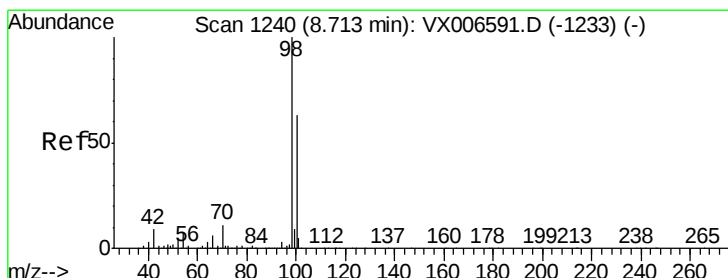
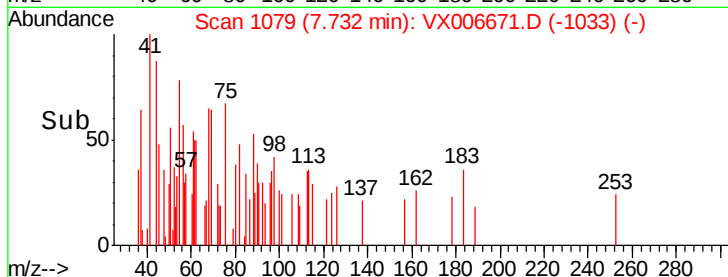
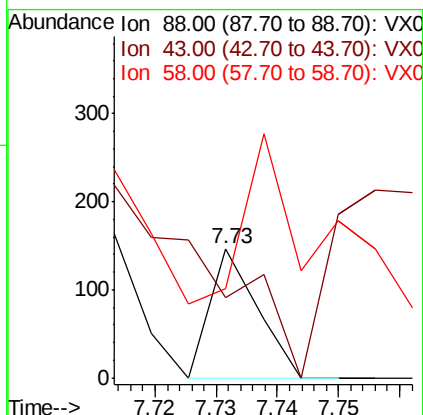
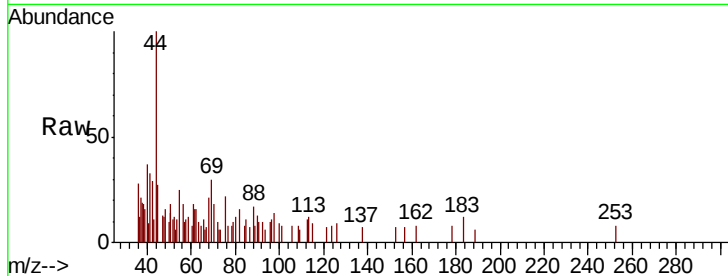




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.73 min Scan# 1079
Delta R.T. -0.02 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

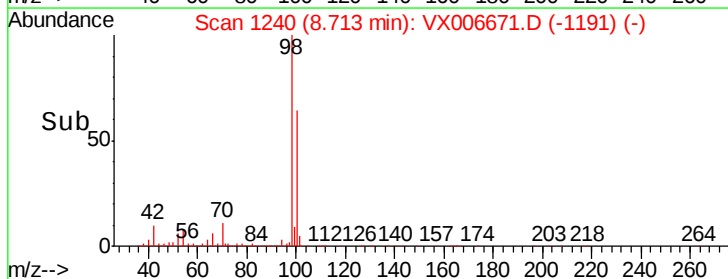
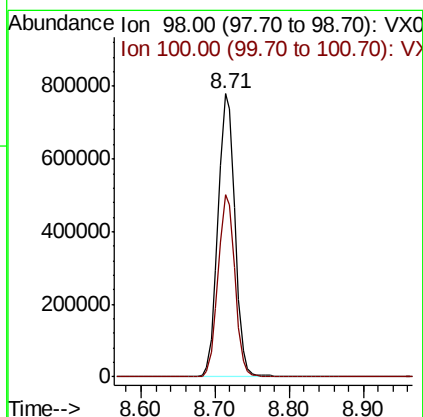
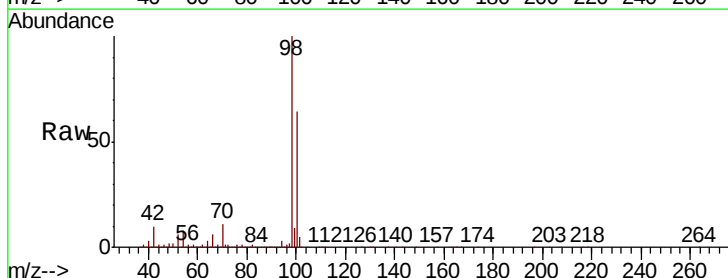
Instrument :
MSVOA_X
ClientSampleId :

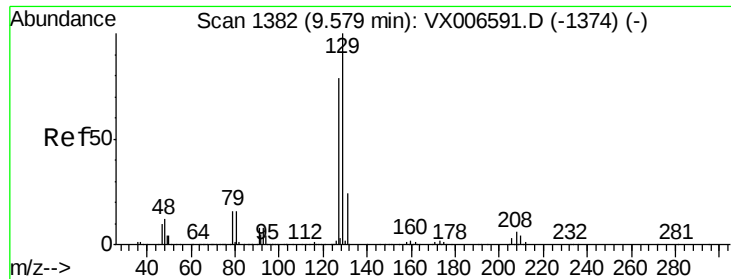
Tot Ion: 88 Resp: 78
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 461.5 51.0 76.4#



#50
Toluene-d8
Concen: 49.867 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

Tgt Ion: 98 Resp: 1223327
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0





#60

Dibromochloromethane

Concen: 27.808 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

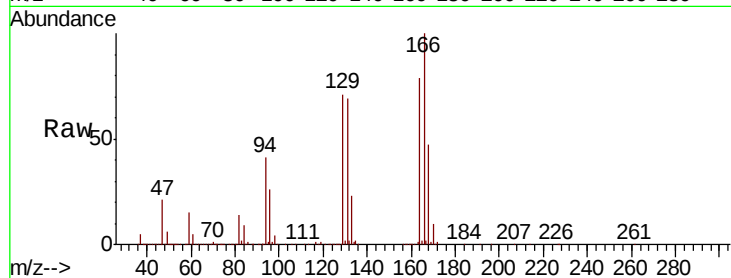
ClientSampleId :

Tot Ion:129 Resp: 191480

Ion Ratio Lower Upper

129 100

127 0.2 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

150000

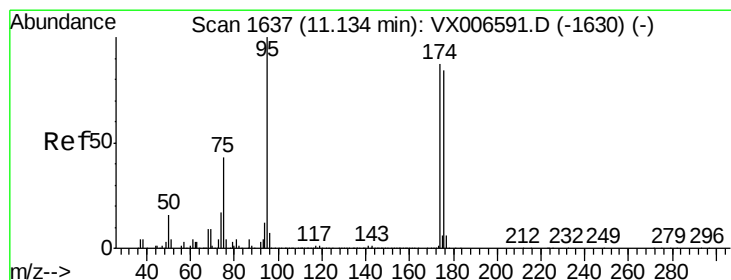
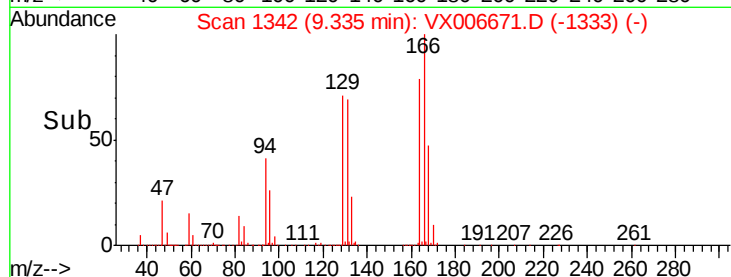
100000

50000

0

9.25 9.30 9.35 9.40 9.45

Time-->



#62

4-Bromofluorobenzene

Concen: 48.965 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

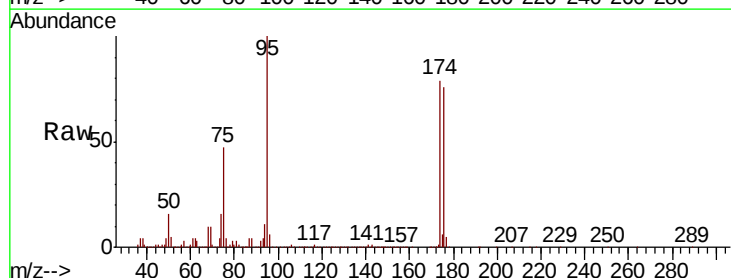
Tgt Ion: 95 Resp: 439927

Ion Ratio Lower Upper

95 100

174 87.6 0.0 182.2

176 84.7 0.0 178.8



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

400000

300000

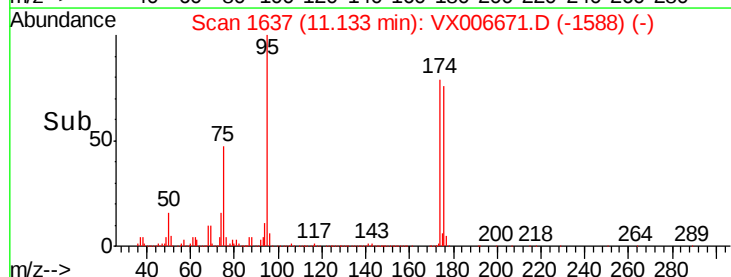
200000

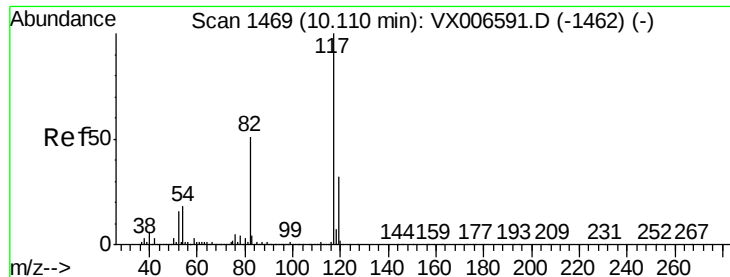
100000

0

11.10 11.13 11.16

Time-->

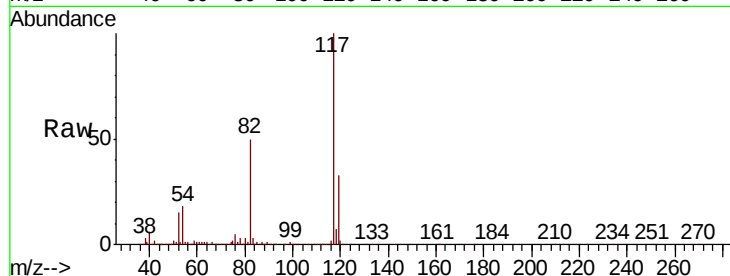




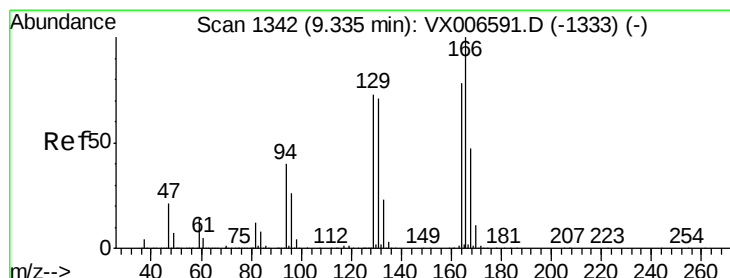
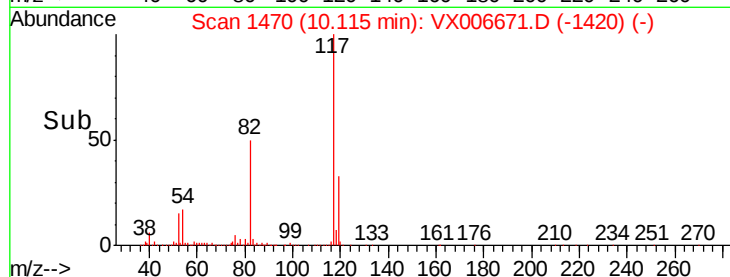
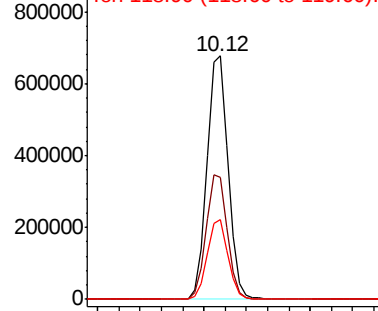
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 946011
Ion Ratio Lower Upper
117 100
82 50.3 41.0 61.6
119 32.7 25.4 38.0

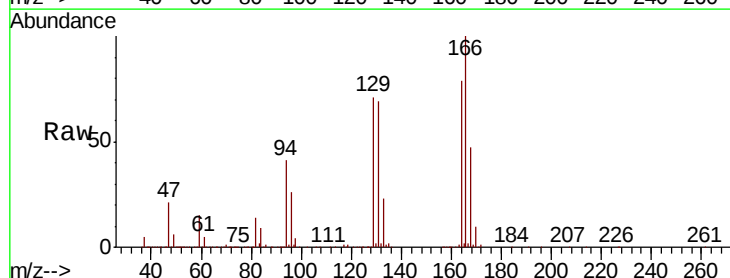


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

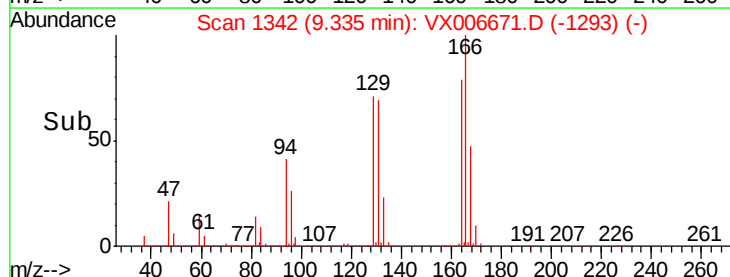
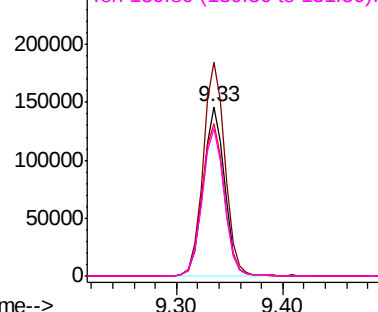


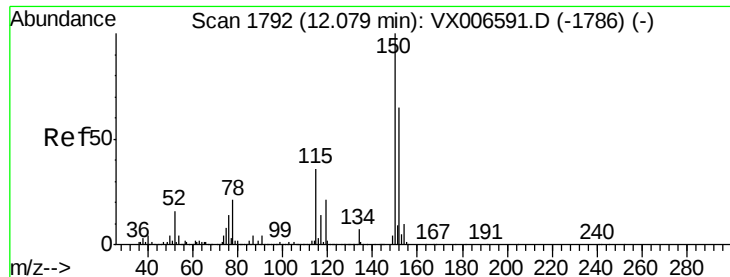
#64
Tetrachloroethene
Concen: 27.669 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

Tgt Ion:164 Resp: 207267
Ion Ratio Lower Upper
164 100
166 126.3 102.5 153.7
129 89.8 75.1 112.7
131 87.2 72.7 109.1



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

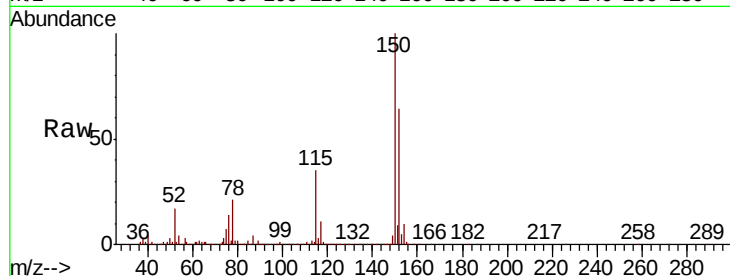
Tot Ion:152 Resp: 451641

Ion Ratio Lower Upper

152 100

115 56.4 39.1 117.2

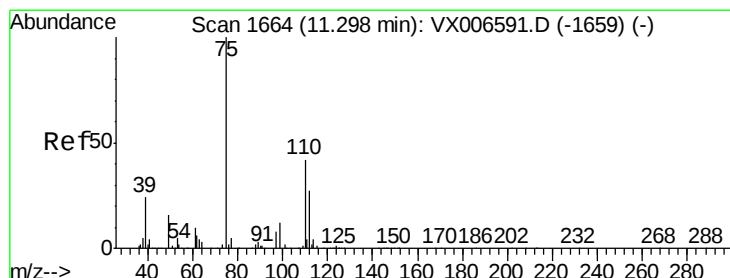
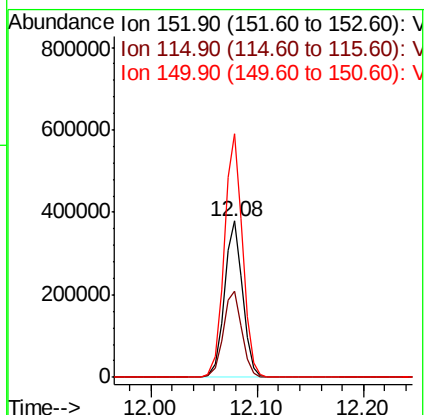
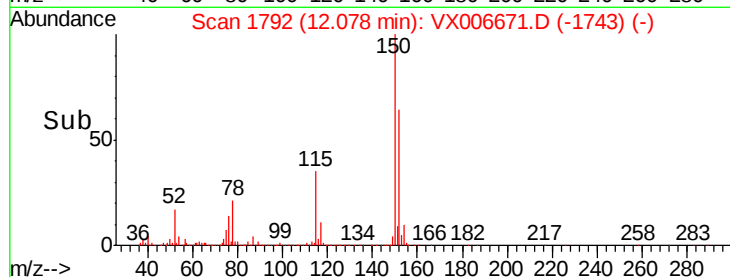
150 155.9 0.0 344.8



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: 24.438 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006671.D

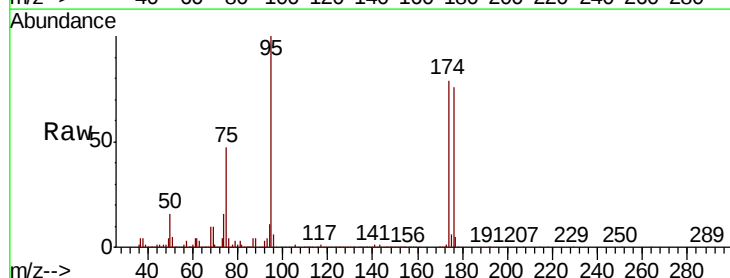
Acq: 20 Dec 2018 13:07

Tgt Ion: 75 Resp: 205121

Ion Ratio Lower Upper

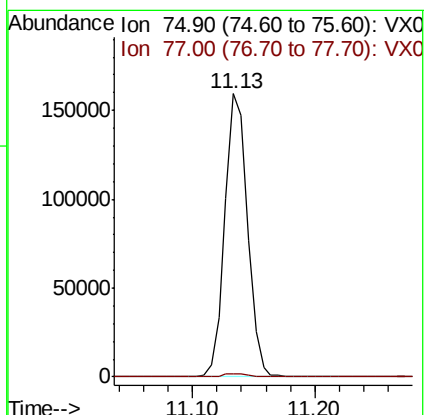
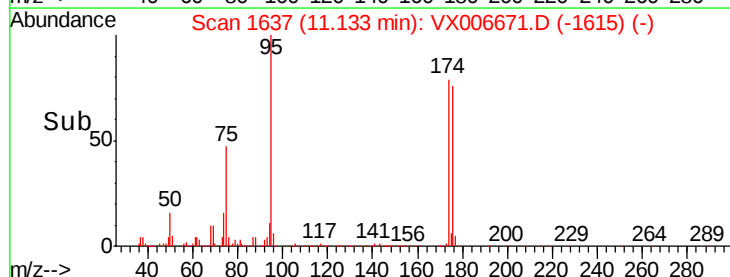
75 100

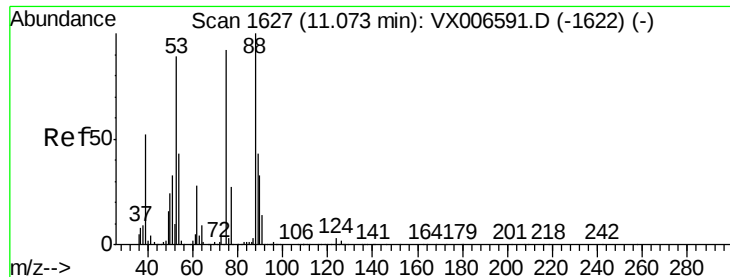
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.310 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006671.D

Acq: 20 Dec 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

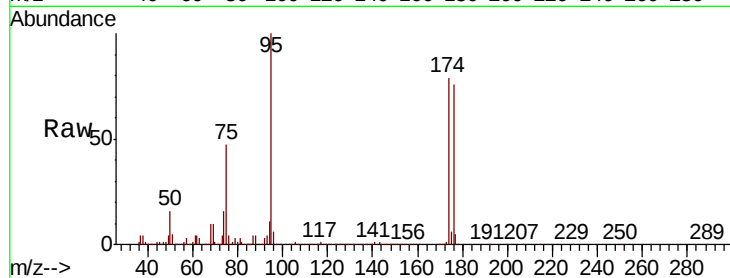
Tot Ion: 75 Resp: 205121

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

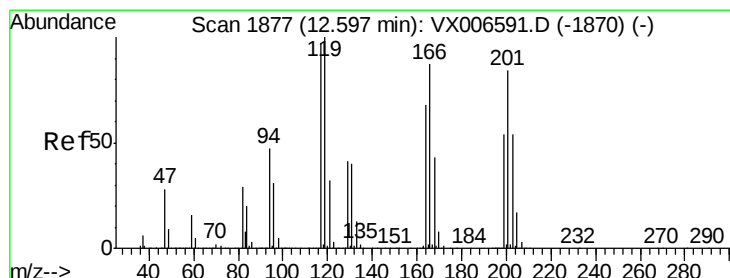
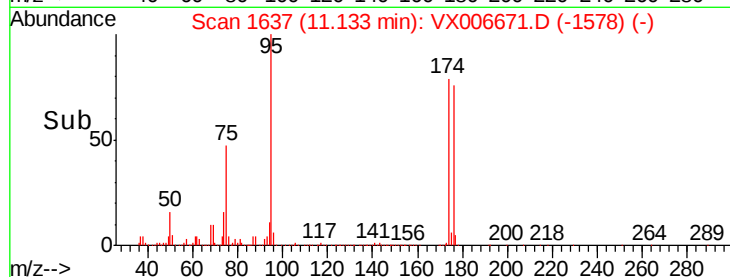
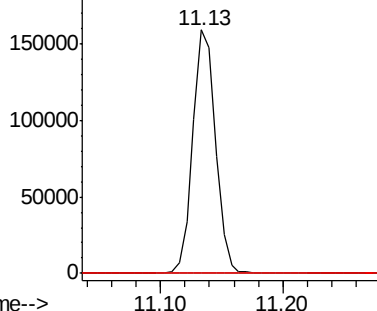
89 0.0 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.302 ug/l

RT: 12.51 min Scan# 1862

Delta R.T. -0.09 min

Lab File: VX006671.D

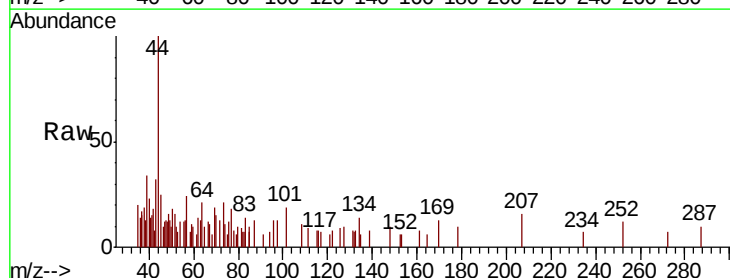
Acq: 20 Dec 2018 13:07

Tgt Ion: 117 Resp: 40

Ion Ratio Lower Upper

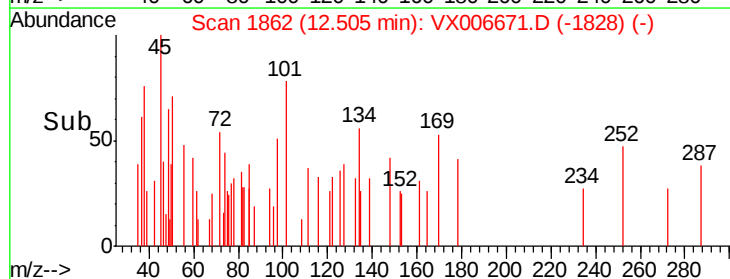
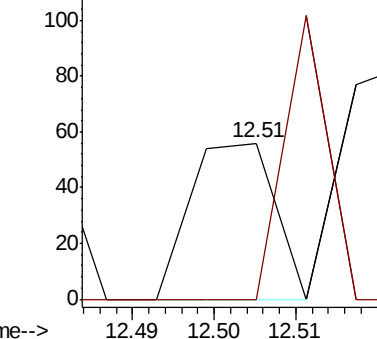
117 100

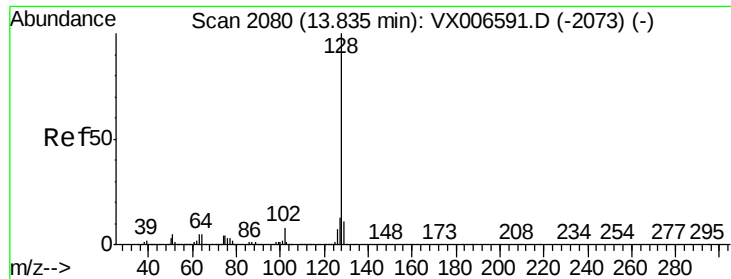
201 92.5 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

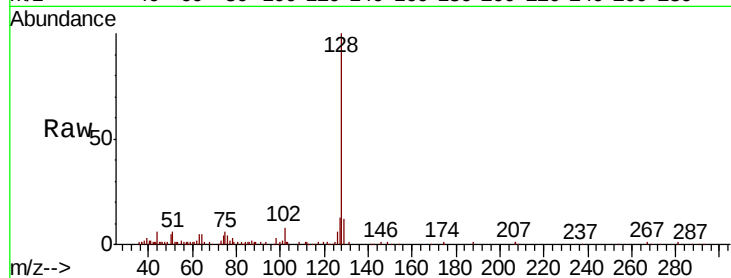




#95
Naphthalene
Concen: 0.690 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006671.D
Acq: 20 Dec 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.1	15.1
129	11.9	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

