

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006695.D
 Acq On : 21 Dec 2018 00:41
 Operator : JC/MD
 Sample : J6514-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:38:14 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	5.67	168	619770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	981941	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	909773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	425701	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	337055	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
35) Dibromofluoromethane	5.50	113	294988	47.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.02%	
50) Toluene-d8	8.71	98	1163944	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	11.13	95	419356	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	

Target Compounds

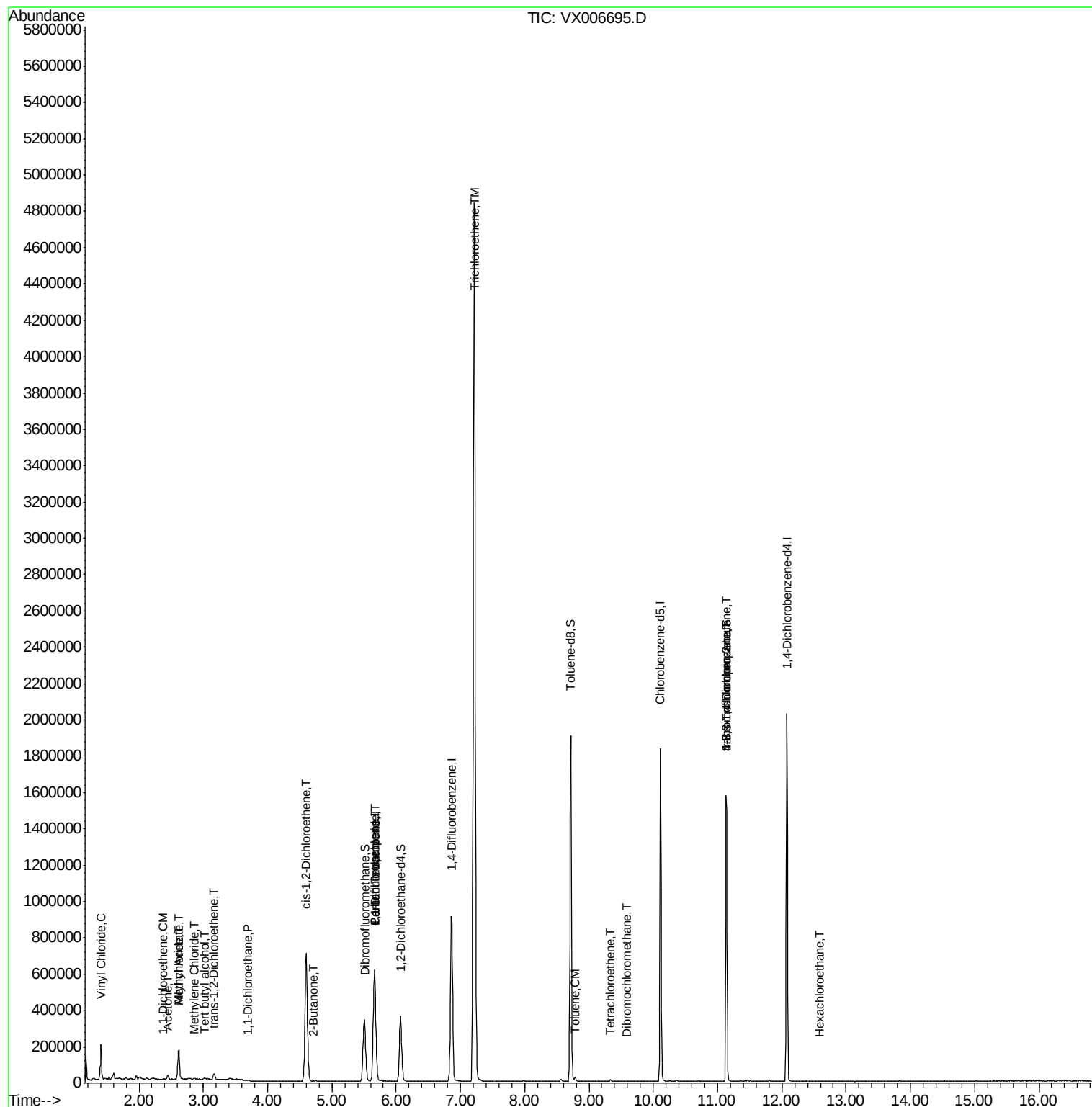
					Qvalue	
4) Vinyl Chloride	1.41	62	100638	15.775	ug/l	99
5) Bromomethane	1.65	94	1234	Below Cal	#	48
11) Tert butyl alcohol	3.03	59	4250	2.851	ug/l #	79
12) 1,1-Dichloroethene	2.38	96	1588	0.287	ug/l	90
14) Allyl chloride	2.62	41	15587	1.672	ug/l #	65
16) Acetone	2.45	43	24625	8.024	ug/l	100
18) Methyl Acetate	2.61	43	47388	5.251	ug/l #	54
20) Methylene Chloride	2.86	84	1581	0.249	ug/l #	61
21) trans-1,2-Dichloroethene	3.17	96	12715	2.072	ug/l	92
24) 1,1-Dichloroethane	3.70	63	4445	0.437	ug/l #	82
25) 2-Butanone	4.71	43	1678	0.389	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	469252	69.319	ug/l	93
28) Bromochloromethane	5.01	49	216	Below Cal	#	1
36) 1,1-Dichloropropene	5.66	75	42397	5.213	ug/l #	39
38) Carbon Tetrachloride	5.66	117	59243	7.496	ug/l #	14
44) Trichloroethene	7.21	130	1930873	258.062	ug/l	99
49) 1,4-Dioxane	7.74	88	75	Below Cal	#	1
52) Toluene	8.78	92	5876	0.368	ug/l	86
60) Dibromochloromethane	9.58	129	69	2.334	ug/l	100
64) Tetrachloroethene	9.34	164	1913	0.266	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	197790	25.001	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197790	73.877	ug/l #	10
90) Hexachloroethane	12.59	117	89	3.314	ug/l #	6

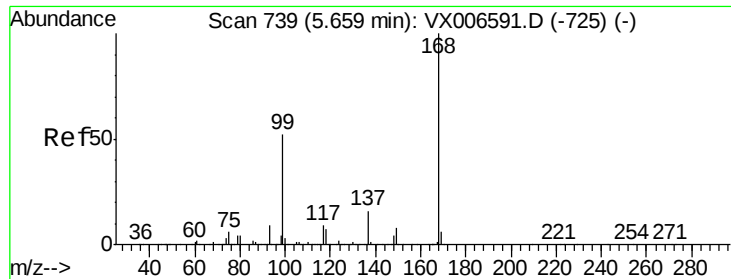
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 21 03:38:14 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

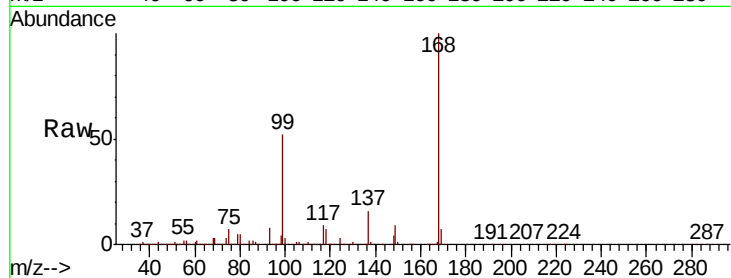
ClientSampleId :

Tot Ion:168 Resp: 619770

Ion Ratio Lower Upper

168 100

99 51.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

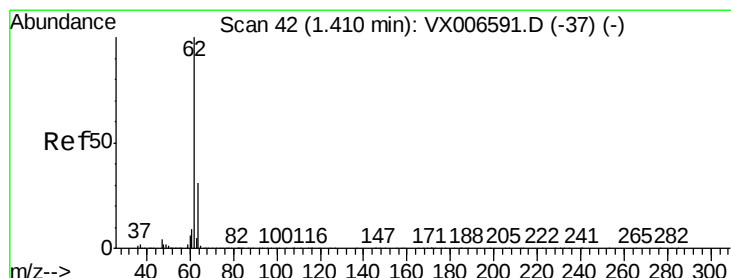
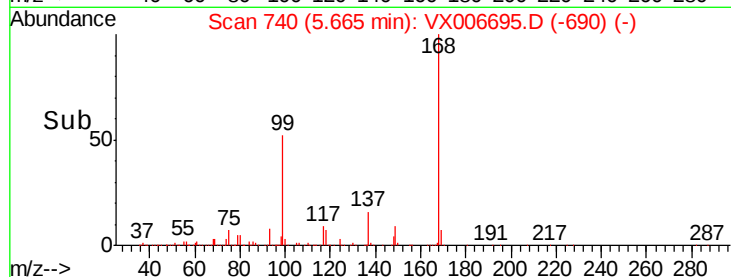
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 15.775 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006695.D

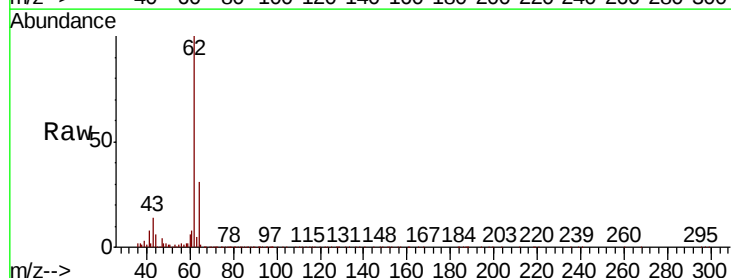
Acq: 21 Dec 2018 00:41

Tgt Ion: 62 Resp: 100638

Ion Ratio Lower Upper

62 100

64 30.8 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

100000

80000

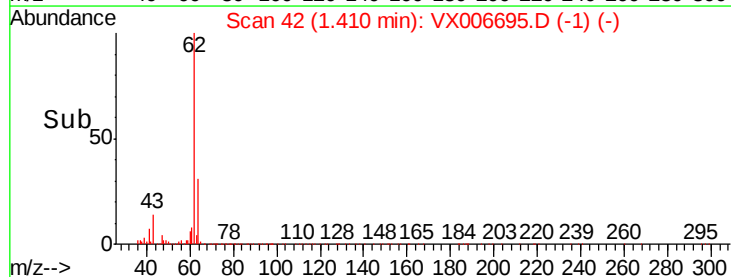
60000

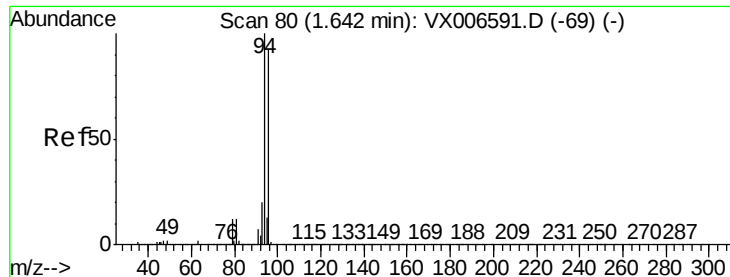
40000

20000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

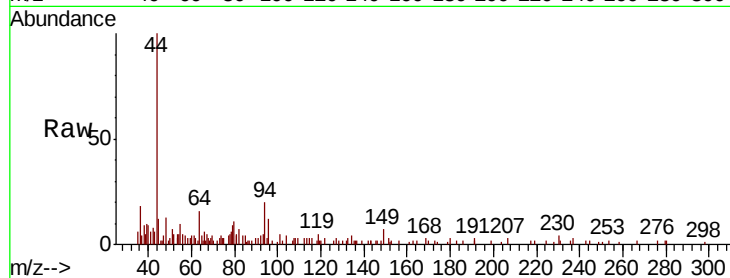
ClientSampled :

Tot Ion: 94 Resp: 1234

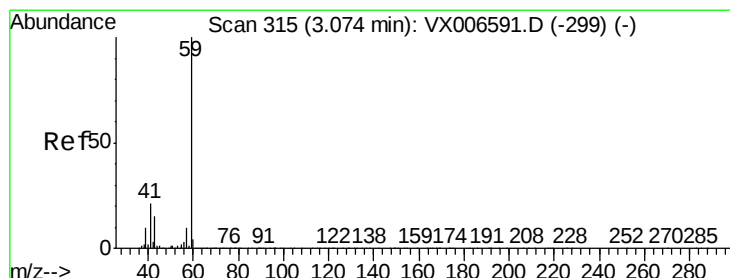
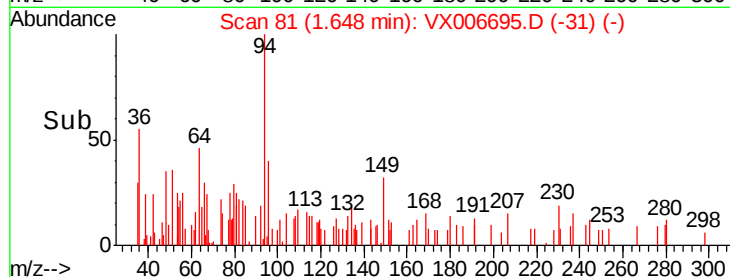
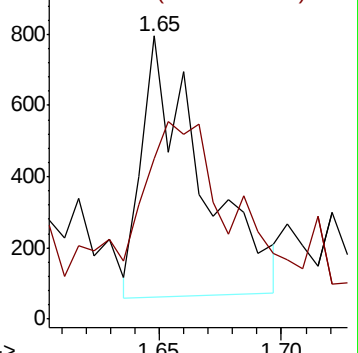
Ion Ratio Lower Upper

94 100

96 42.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#11

Tert butyl alcohol

Concen: 2.851 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006695.D

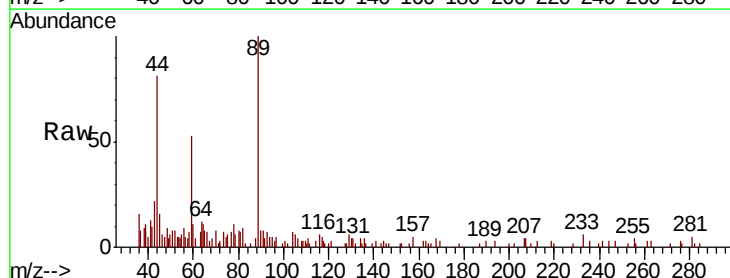
Acq: 21 Dec 2018 00:41

Tgt Ion: 59 Resp: 4250

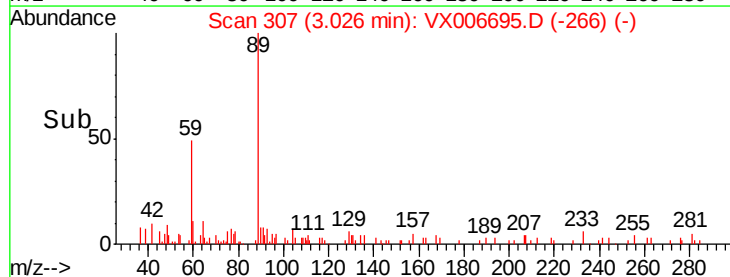
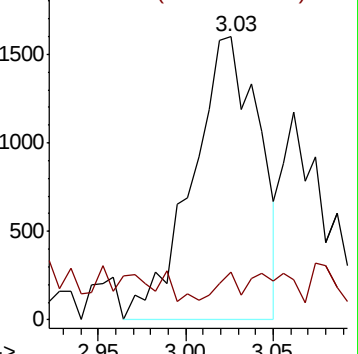
Ion Ratio Lower Upper

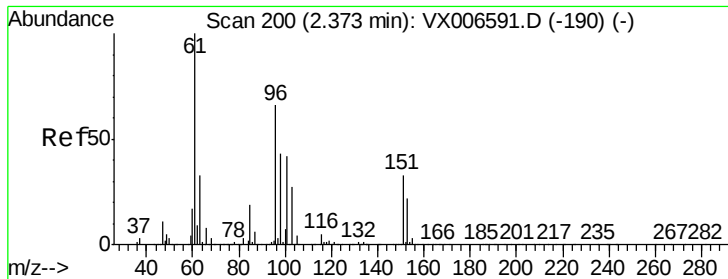
59 100

57 2.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0





#12

1,1-Dichloroethene

Concen: 0.287 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

ClientSampleId :

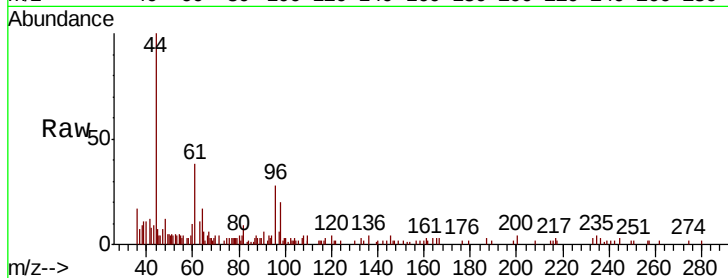
Tot Ion: 96 Resp: 1588

Ion Ratio Lower Upper

96 100

61 142.2 121.4 182.2

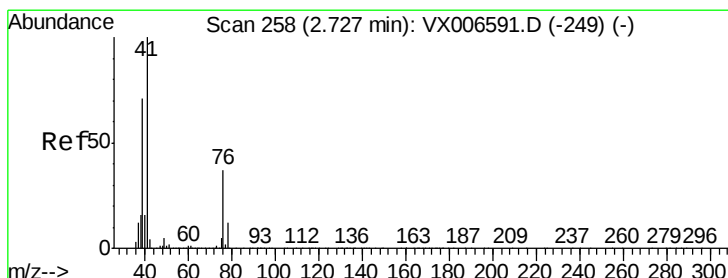
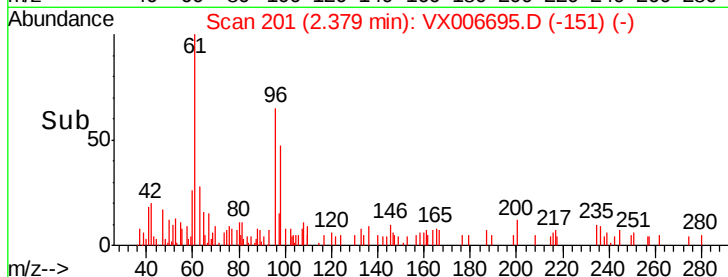
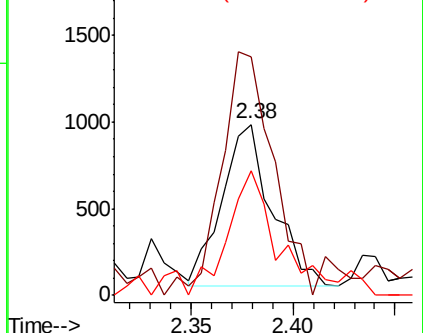
98 76.9 51.9 77.9



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



#14

Allyl chloride

Concen: 1.672 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

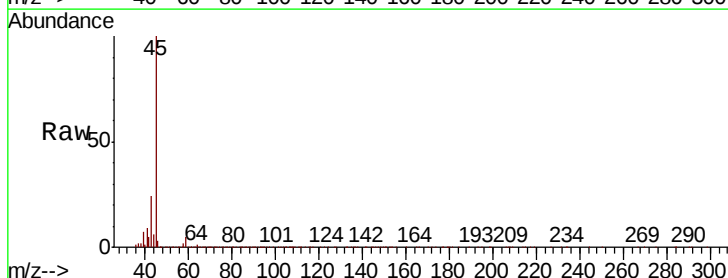
Tgt Ion: 41 Resp: 15587

Ion Ratio Lower Upper

41 100

39 85.7 53.6 80.4#

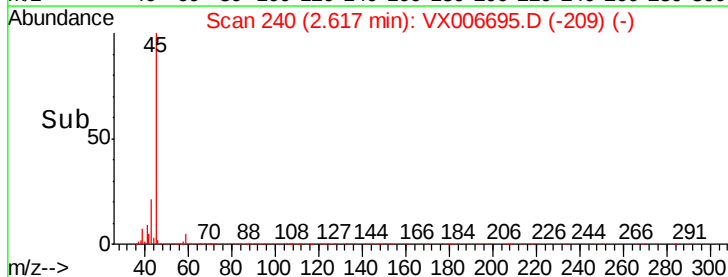
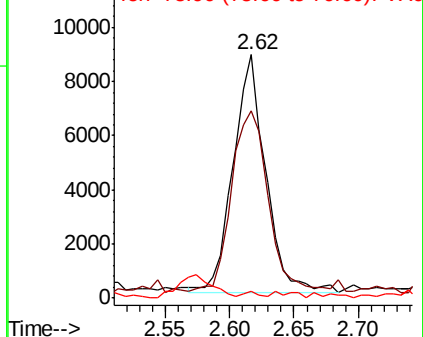
76 0.9 27.4 41.2#

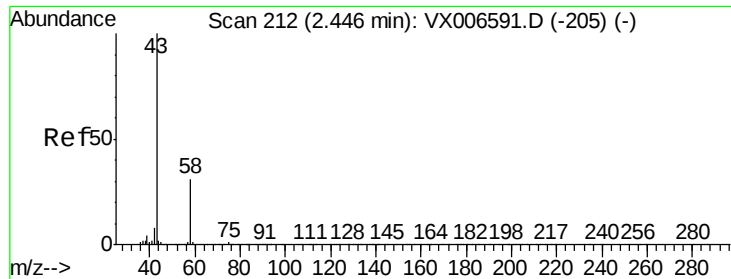


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

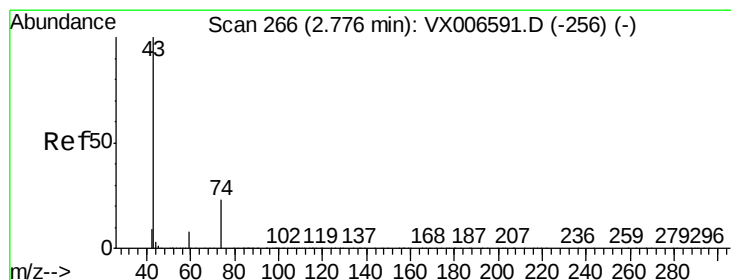
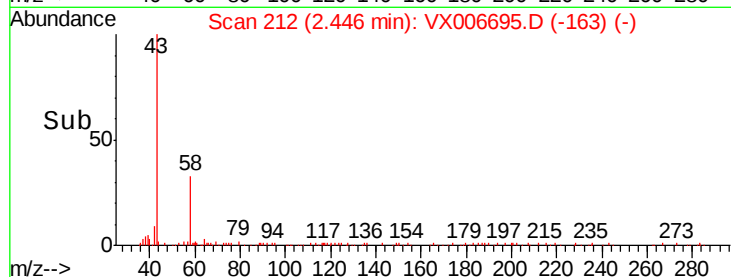
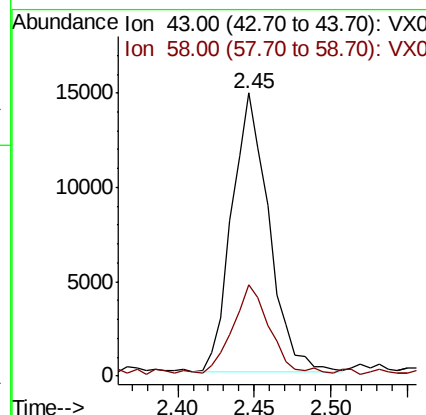
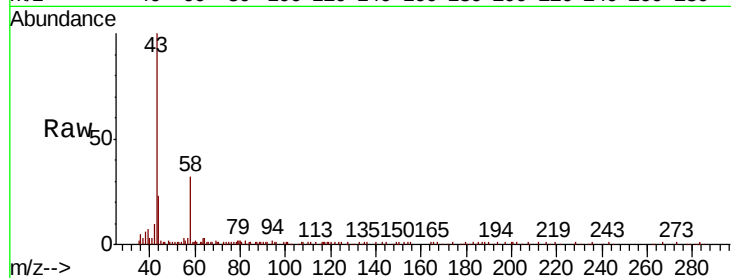




#16
Acetone
Concen: 8.024 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

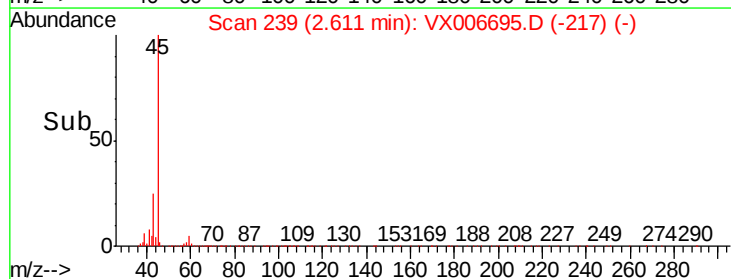
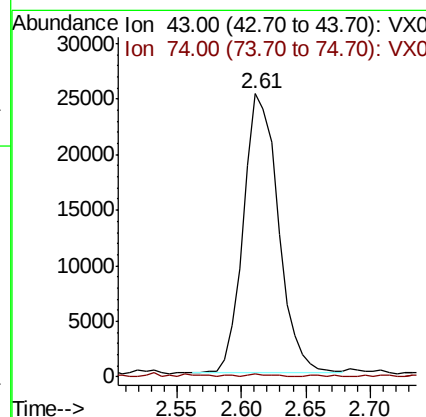
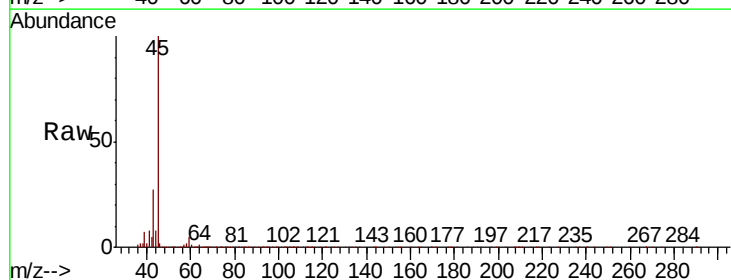
Instrument :
MSVOA_X
ClientSampleId :

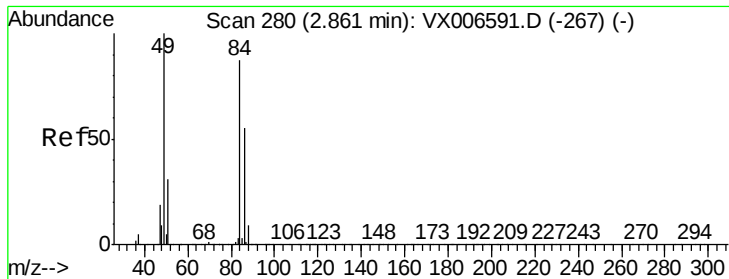
Tot Ion: 43 Resp: 24625
Ion Ratio Lower Upper
43 100
58 31.5 25.0 37.6



#18
Methyl Acetate
Concen: 5.251 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.16 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

Tgt Ion: 43 Resp: 47388
Ion Ratio Lower Upper
43 100
74 0.8 18.6 28.0#

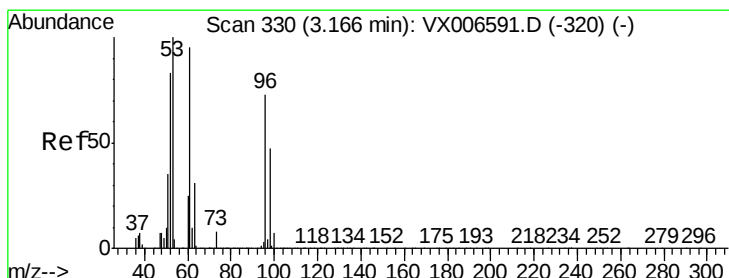
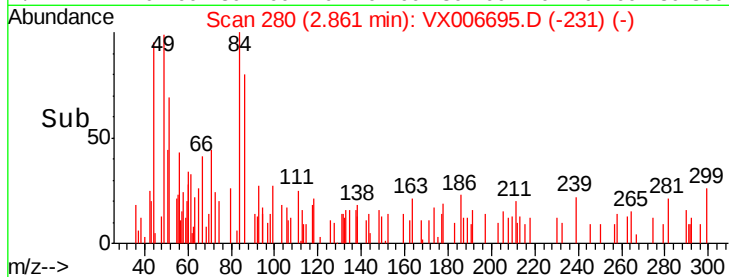
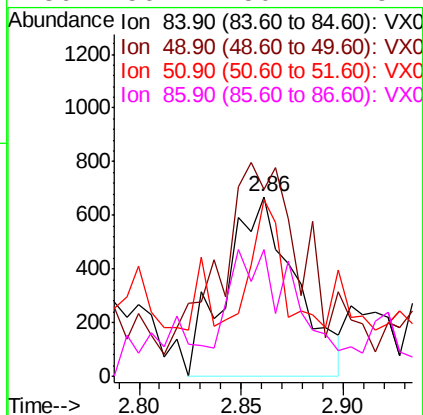
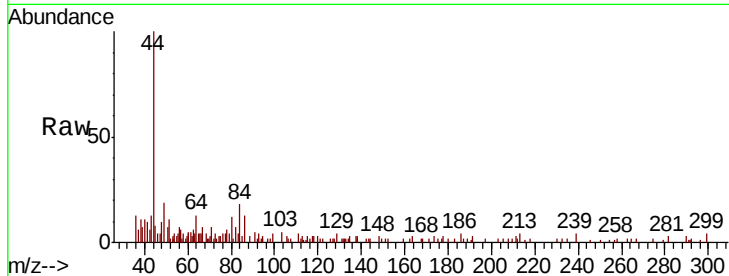




#20
Methylene Chloride
Concen: 0.249 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

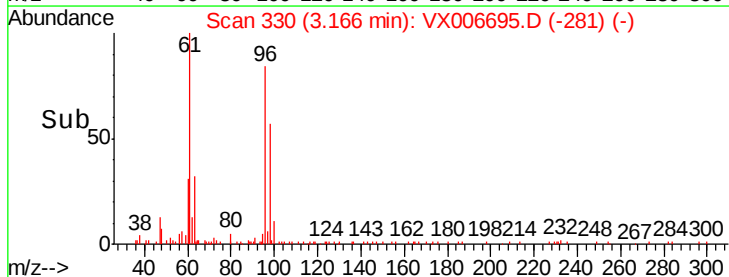
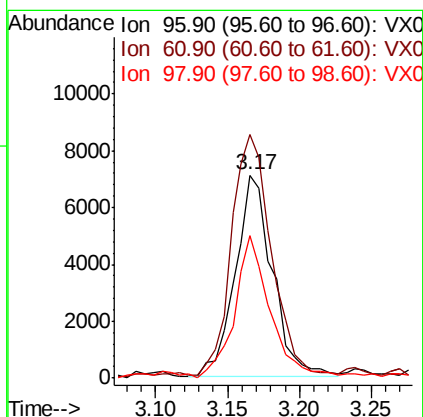
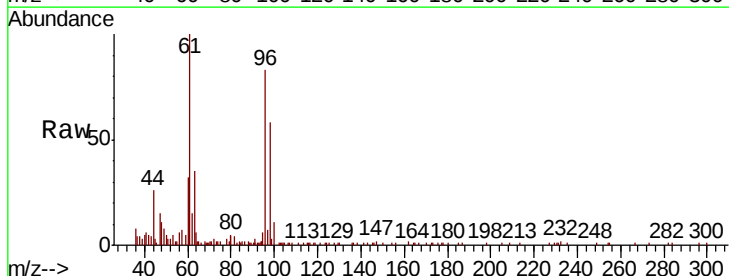
Instrument :
MSVOA_X
ClientSampled :

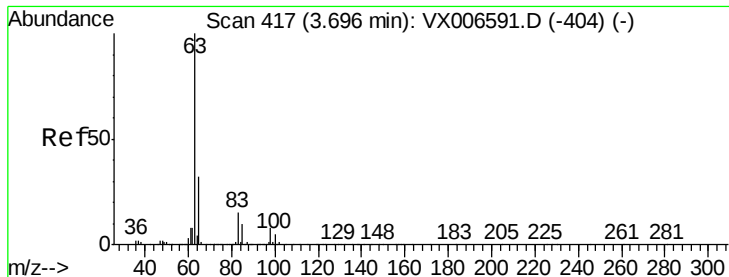
Tot Ion:	84	Resp:	1581
Ion	Ratio	Lower	Upper
84	100		
49	63.5	91.8	137.6#
51	72.9	28.5	42.7#
86	56.1	50.2	75.2



#21
trans-1,2-Dichloroethene
Concen: 2.072 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

Tgt Ion:	96	Resp:	12715
Ion	Ratio	Lower	Upper
96	100		
61	118.7	103.7	155.5
98	68.9	51.0	76.6





#24

1,1-Dichloroethane

Concen: 0.437 ug/l

RT: 3.70 min Scan# 417

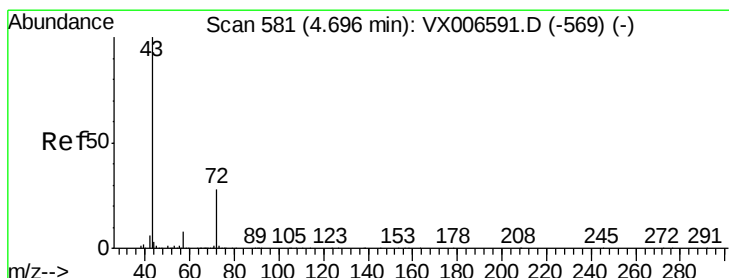
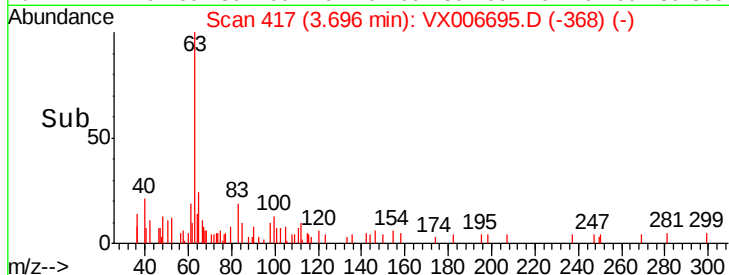
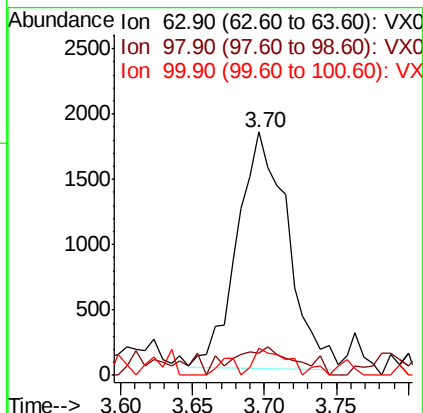
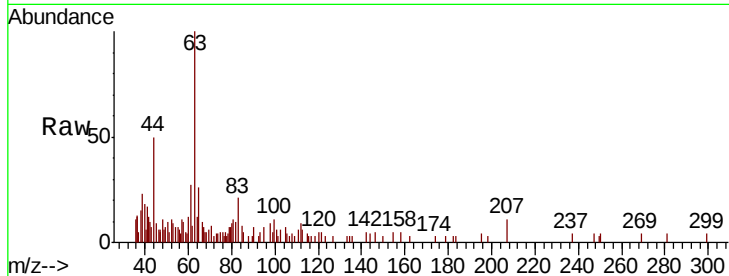
Delta R.T. 0.00 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	63	Resp:	4445
Ion	Ratio	Lower	Upper
63	100		
98	9.3	3.9	11.5
100	18.3	2.4	7.2#



#25

2-Butanone

Concen: 0.389 ug/l

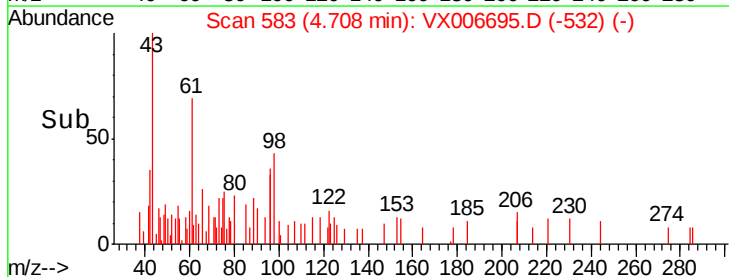
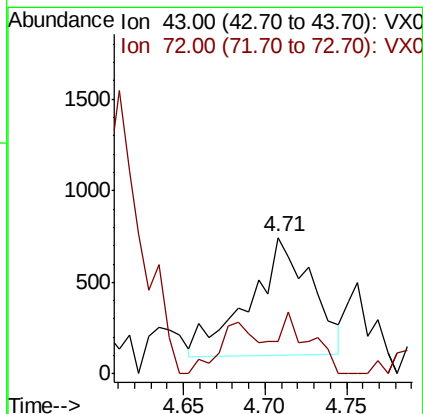
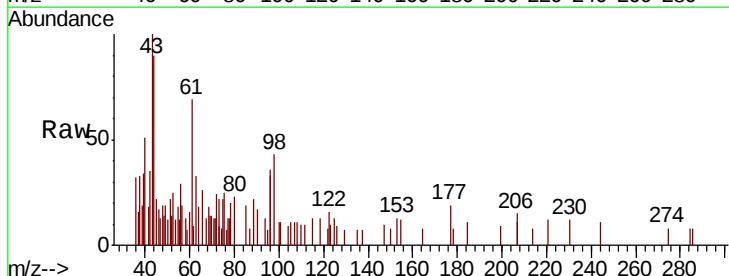
RT: 4.71 min Scan# 583

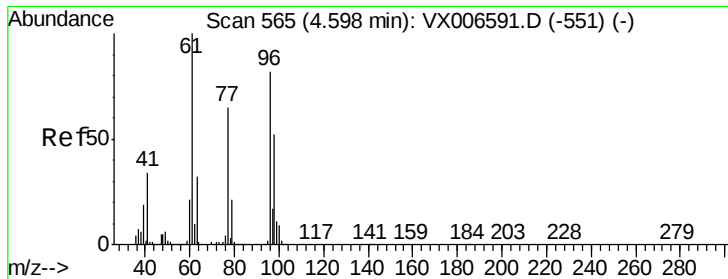
Delta R.T. 0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Tgt Ion:	43	Resp:	1678
Ion	Ratio	Lower	Upper
43	100		
72	29.3	22.4	33.6



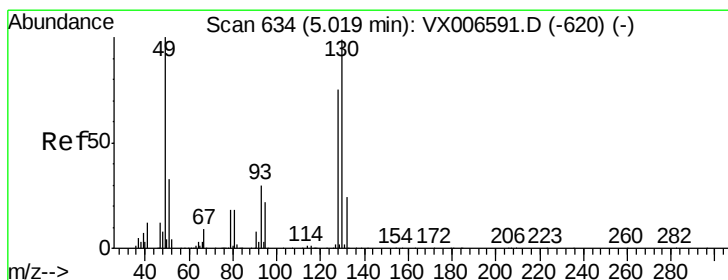
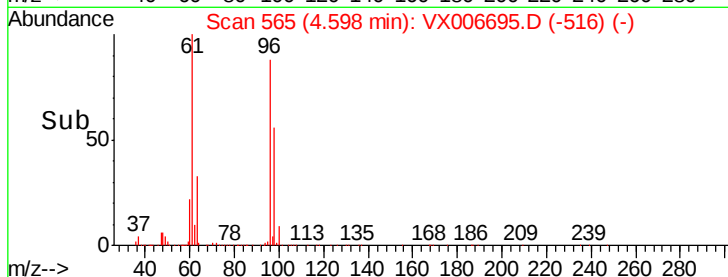
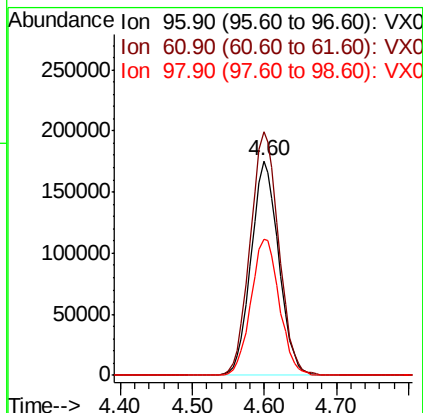
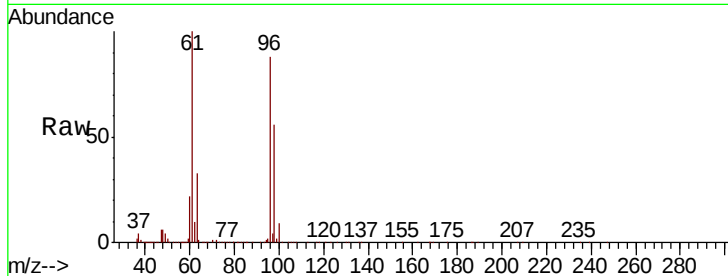


#27

cis-1,2-Dichloroethene
 Concen: 69.319 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX006695.D
 Acq: 21 Dec 2018 00:41

Instrument :
 MSVOA_X
 ClientSampled :

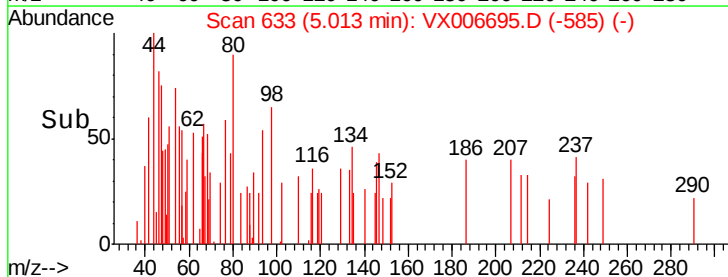
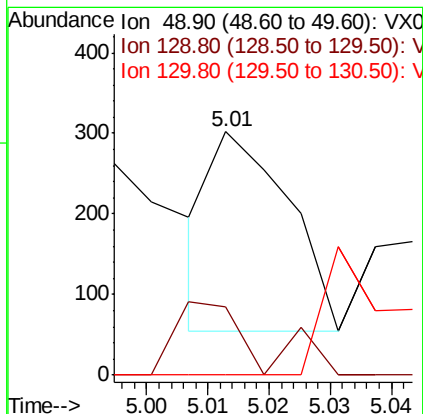
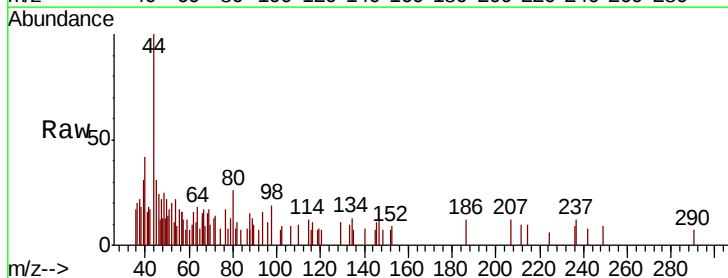
Tot Ion	96	Resp	469252
Ion Ratio	Lower	Upper	
96	100		
61	116.8	0.0	258.6
98	65.3	0.0	132.0

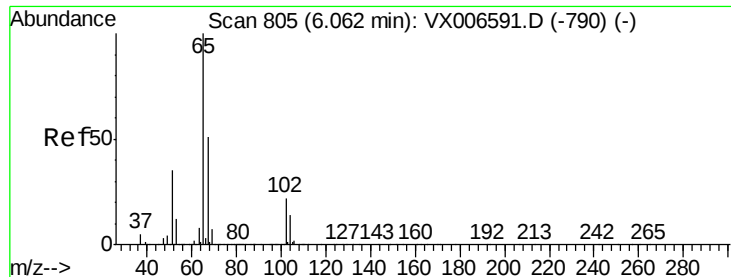


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VX006695.D
 Acq: 21 Dec 2018 00:41

Tgt Ion	49	Resp	216
Ion Ratio	Lower	Upper	
49	100		
129	39.8	0.0	5.4#
130	0.0	77.7	116.5#





#33

1,2-Dichloroethane-d4

Concen: 50.460 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

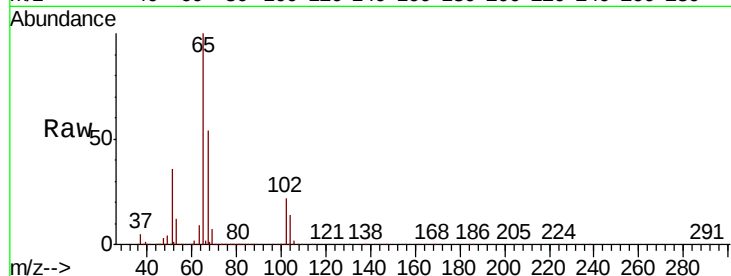
ClientSampled :

Tot Ion: 65 Resp: 337055

Ion Ratio Lower Upper

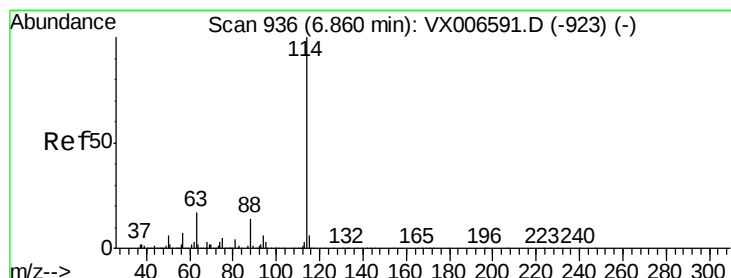
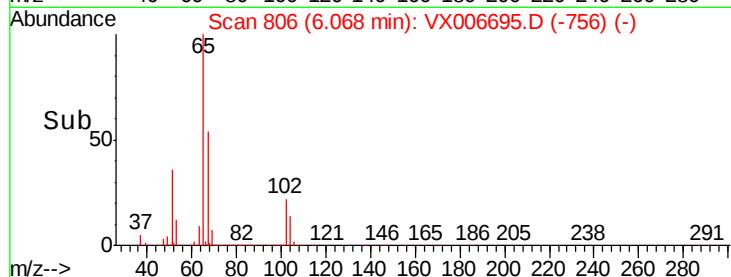
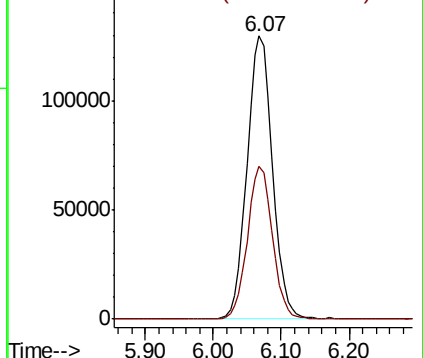
65 100

67 53.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

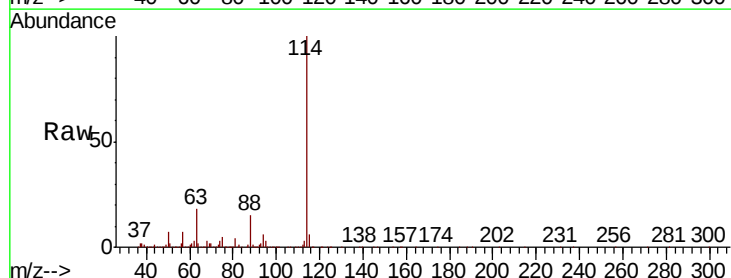
Tgt Ion: 114 Resp: 981941

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

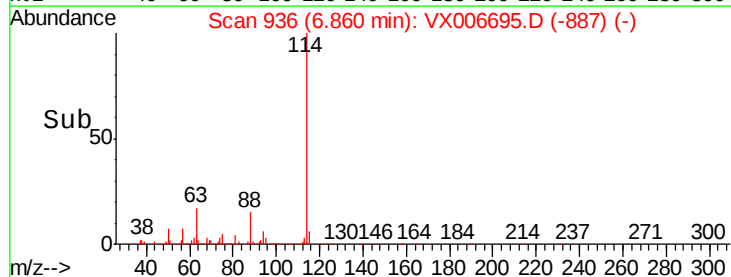
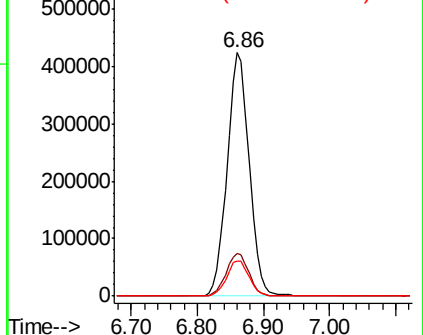
88 14.6 0.0 28.8

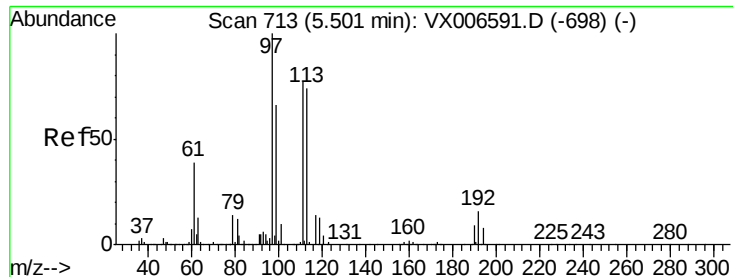


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

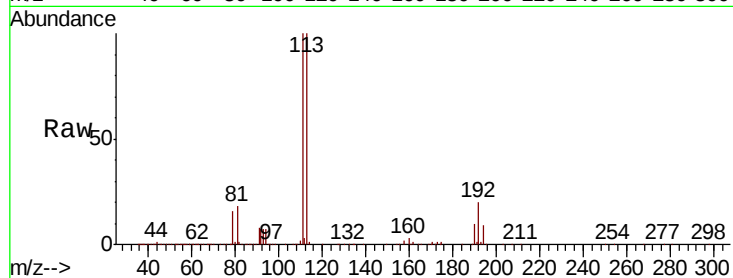




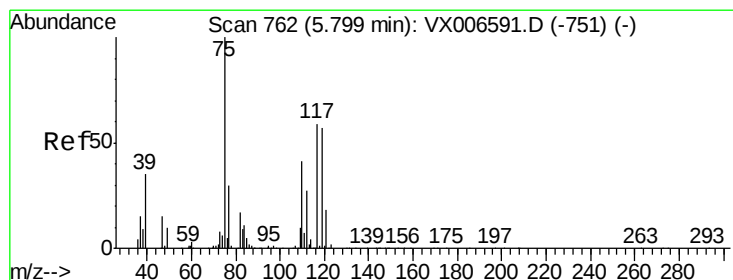
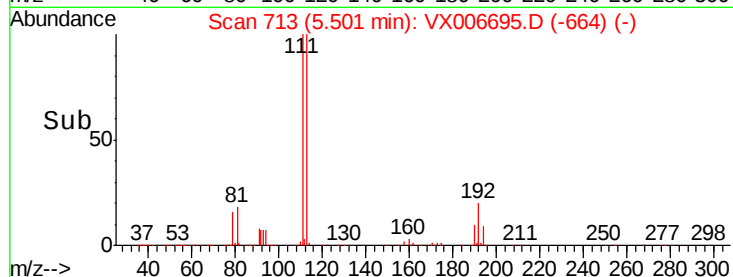
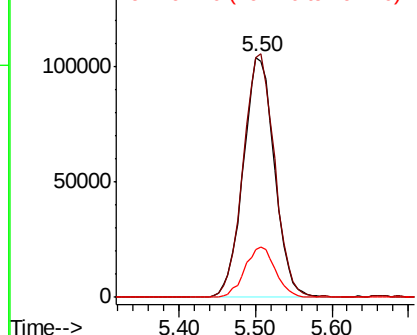
#35
 Dibromofluoromethane
 Concen: 47.505 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX006695.D
 Acq: 21 Dec 2018 00:41

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.6	122.4
192	20.7	16.7	25.1

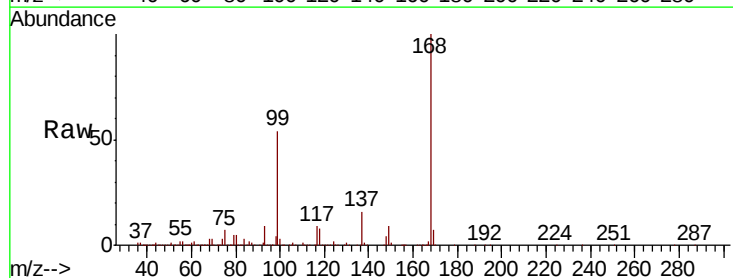


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

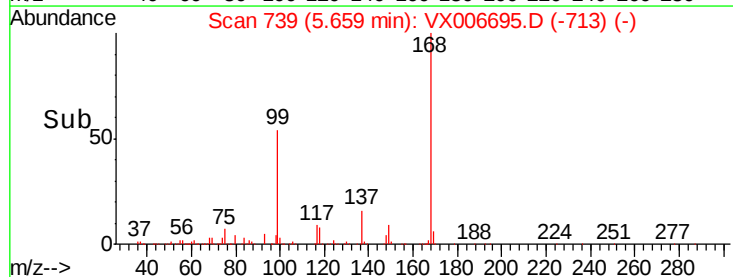
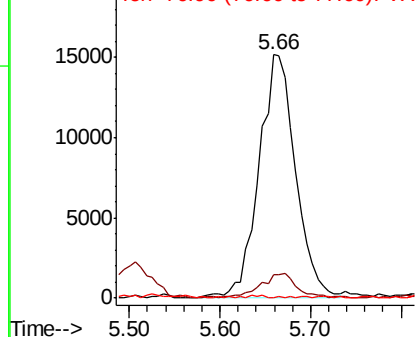


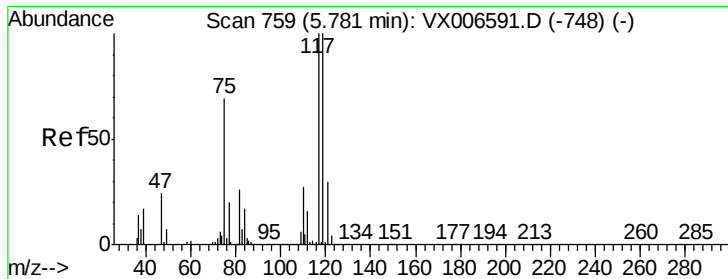
#36
 1,1-Dichloropropene
 Concen: 5.213 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006695.D
 Acq: 21 Dec 2018 00:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.2	60.5#
77	0.5	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: 7.496 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

ClientSampleId :

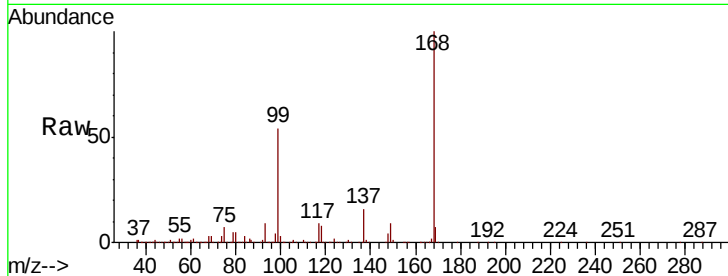
Tot Ion:117 Resp: 59243

Ion Ratio Lower Upper

117 100

119 4.3 79.4 119.2#

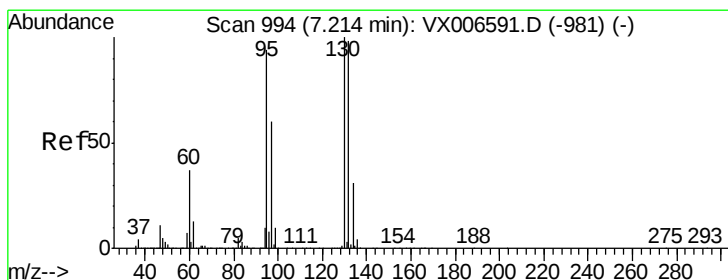
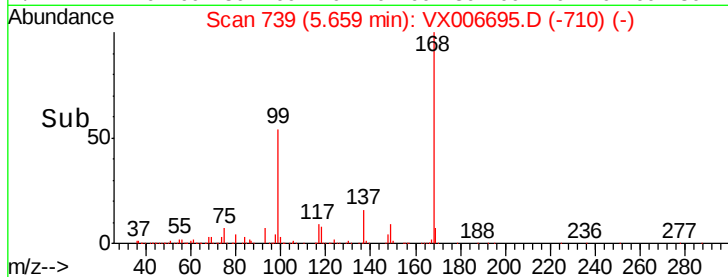
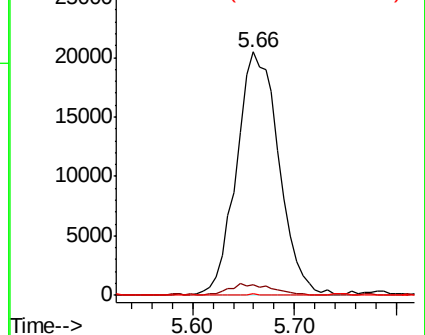
121 0.7 24.0 36.0#



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: 258.062 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006695.D

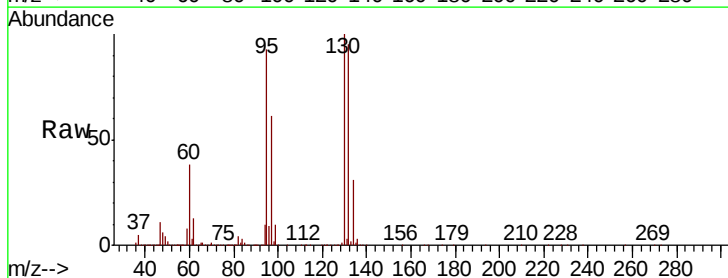
Acq: 21 Dec 2018 00:41

Tgt Ion:130 Resp: 1930873

Ion Ratio Lower Upper

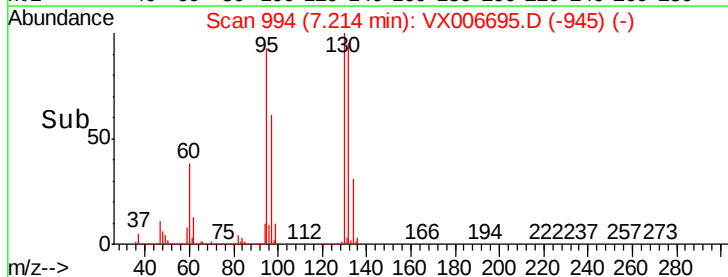
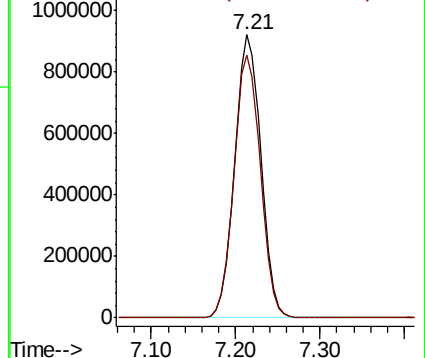
130 100

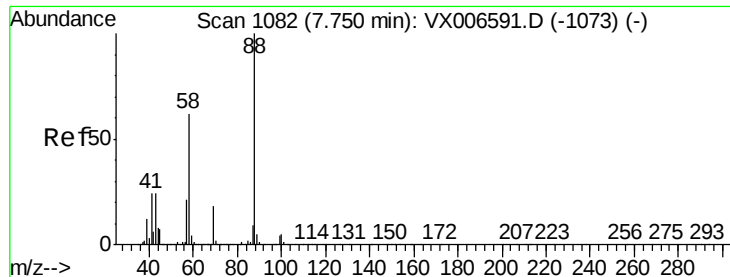
95 92.9 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

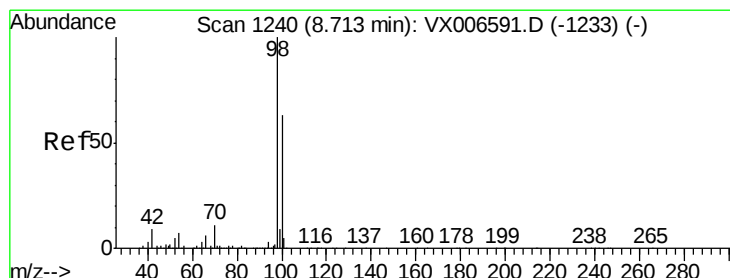
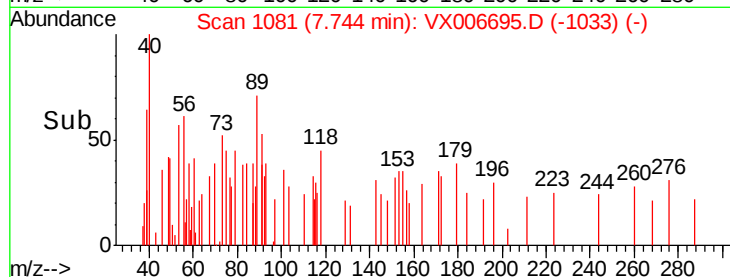
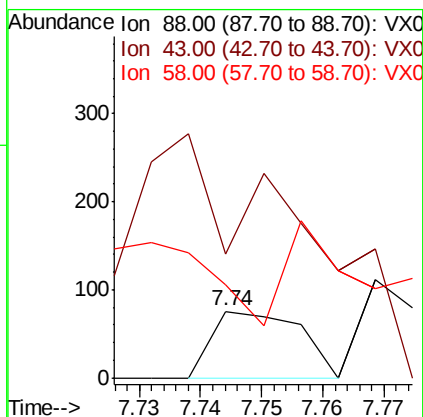
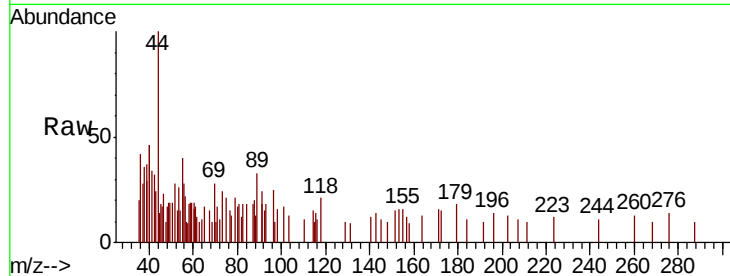




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

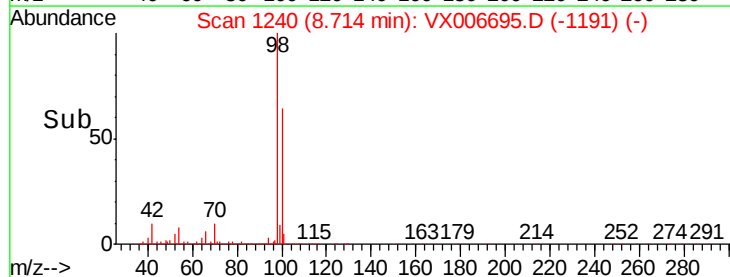
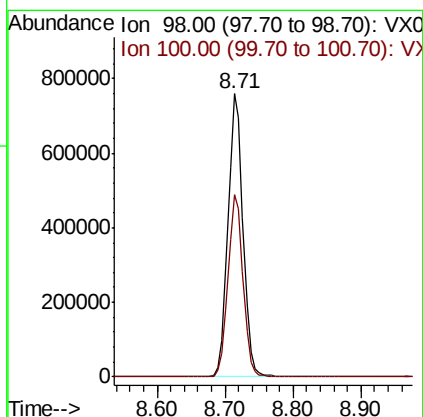
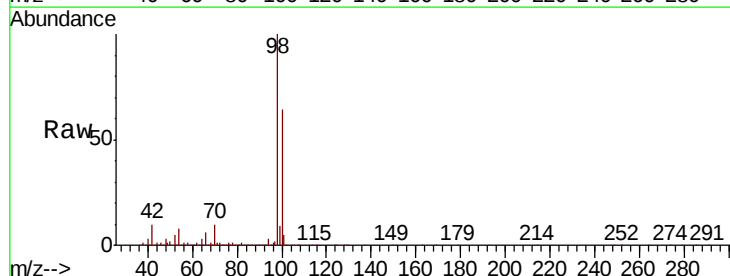
Instrument :
MSVOA_X
ClientSampleId :

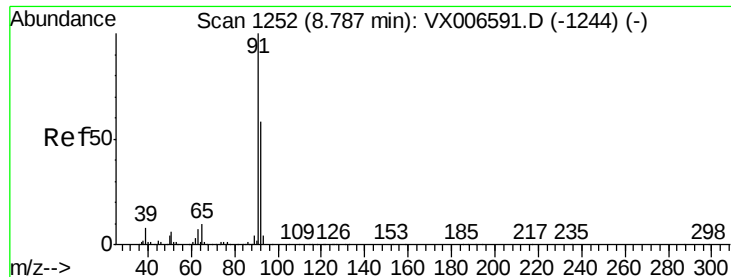
Tot Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 810.7 22.2 33.4#
58 401.3 51.0 76.4#



#50
Toluene-d8
Concen: 49.719 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

Tgt Ion: 98 Resp: 1163944
Ion Ratio Lower Upper
98 100
100 64.6 52.0 78.0





#52

Toluene

Concen: 0.368 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

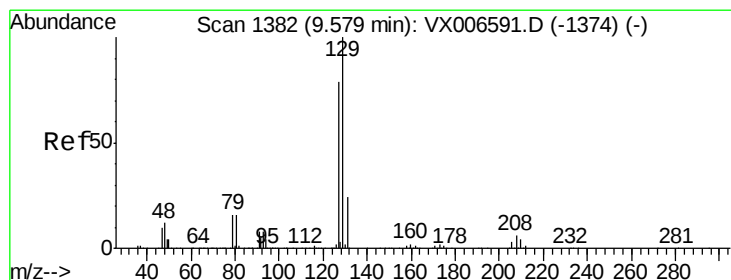
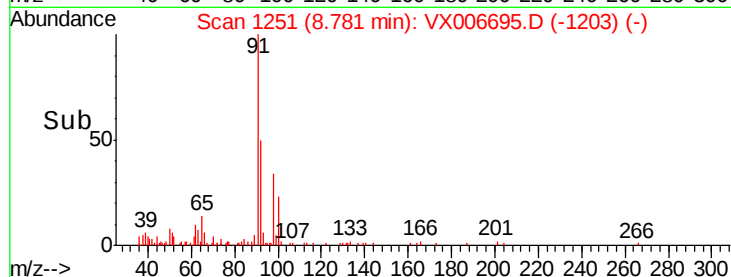
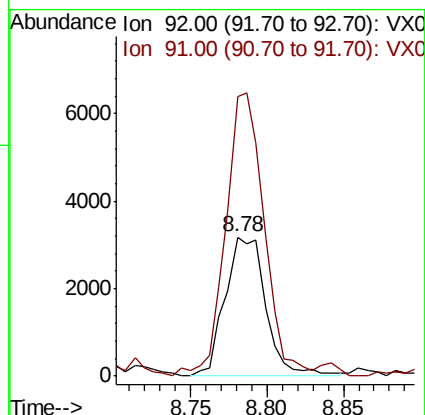
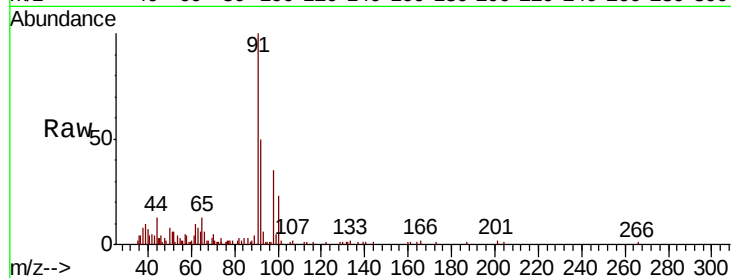
ClientSampleId :

Tot Ion: 92 Resp: 5876

Ion Ratio Lower Upper

92 100

91 191.1 137.6 206.4



#60

Dibromochloromethane

Concen: 2.334 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VX006695.D

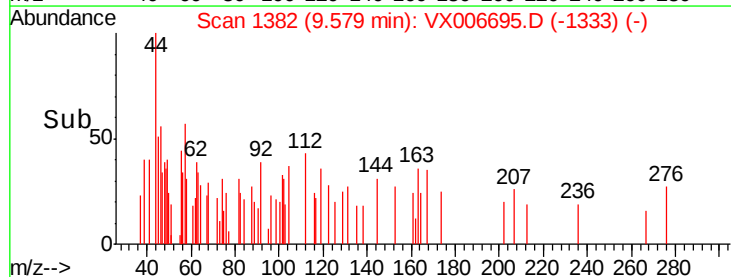
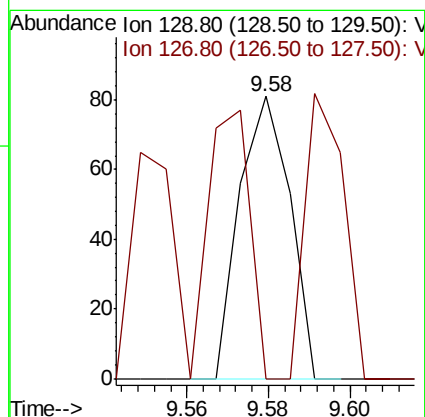
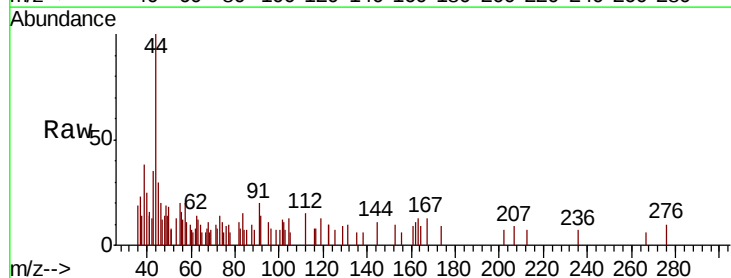
Acq: 21 Dec 2018 00:41

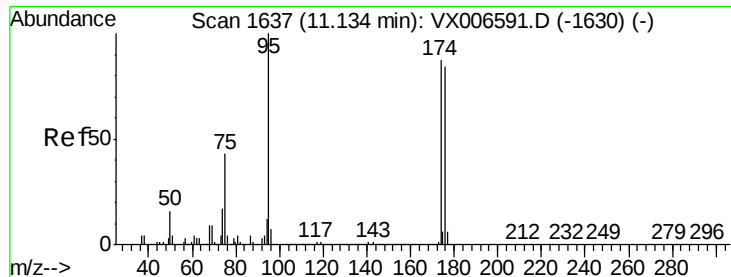
Tgt Ion: 129 Resp: 69

Ion Ratio Lower Upper

129 100

127 78.3 39.3 117.8

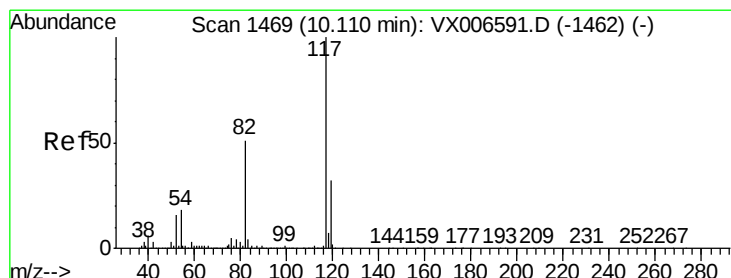
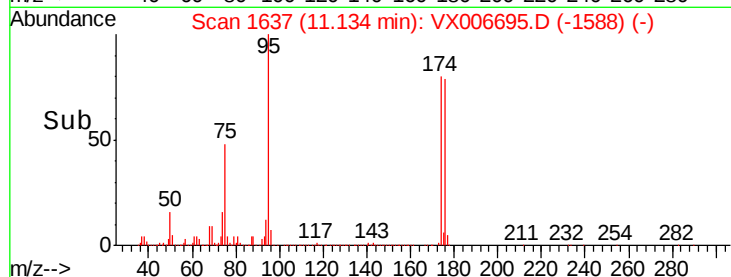
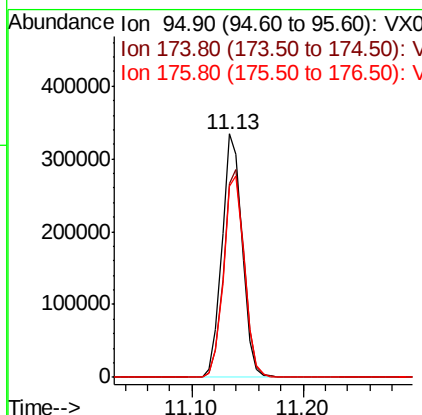
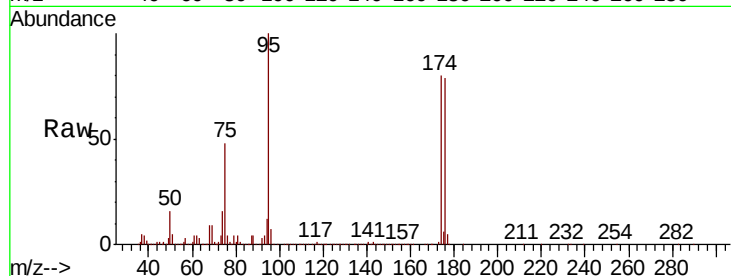




#62
4-Bromofluorobenzene
Concen: 48.911 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

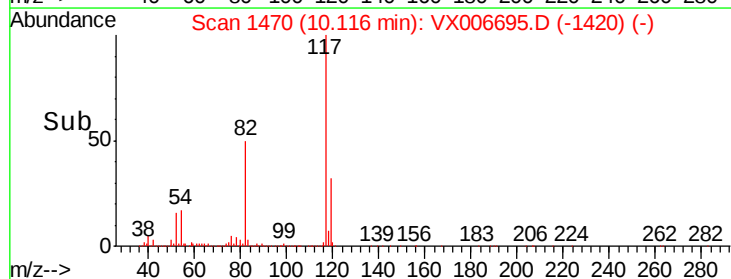
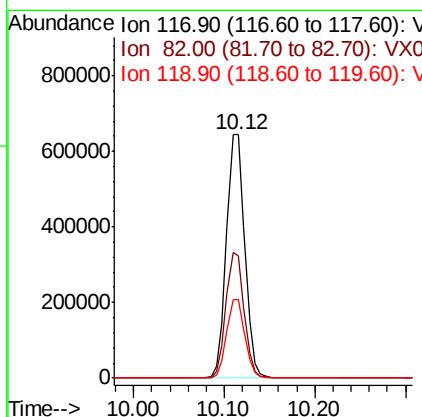
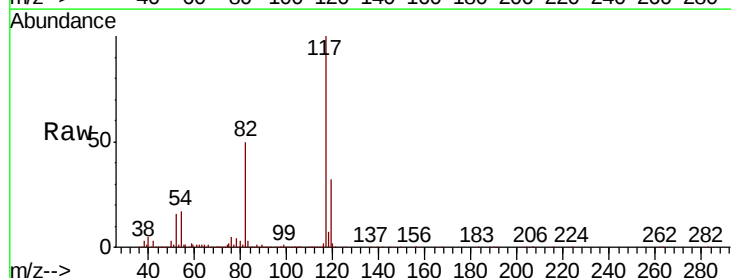
Instrument :
MSVOA_X
ClientSampleId :

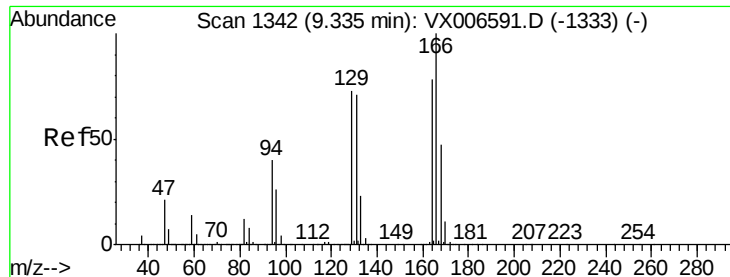
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	182.2
176	85.0	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.0	41.0	61.6
119	32.1	25.4	38.0

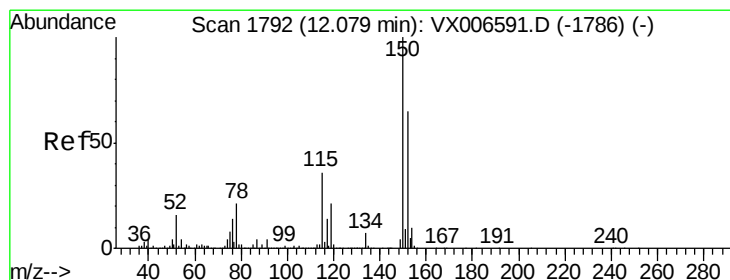
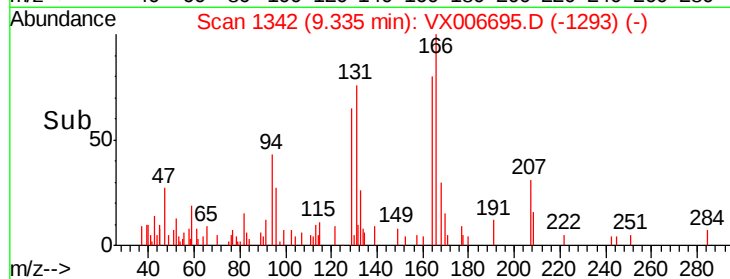
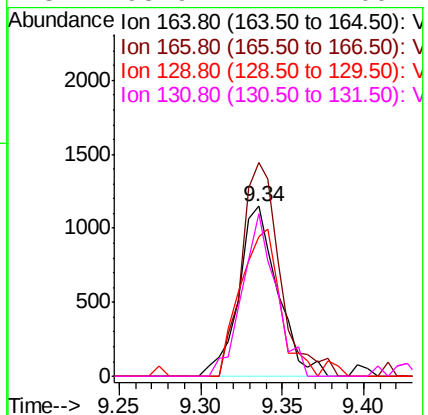
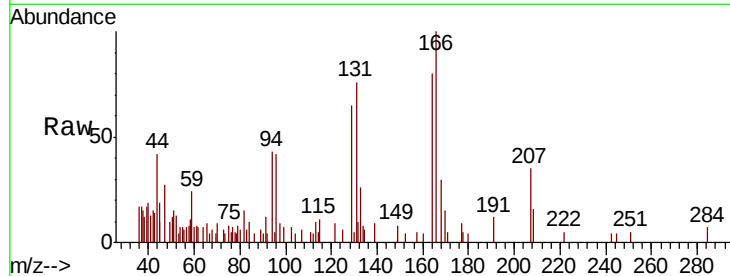




#64
Tetrachloroethene
Concen: 0.266 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

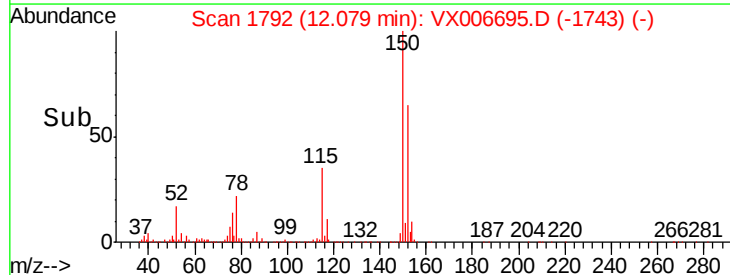
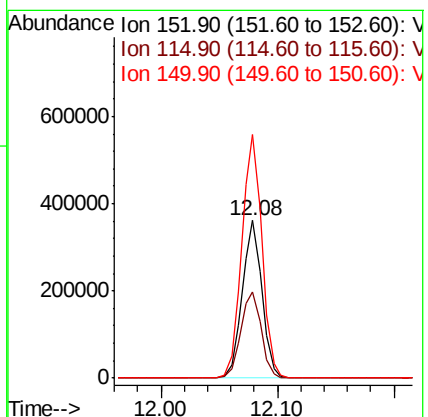
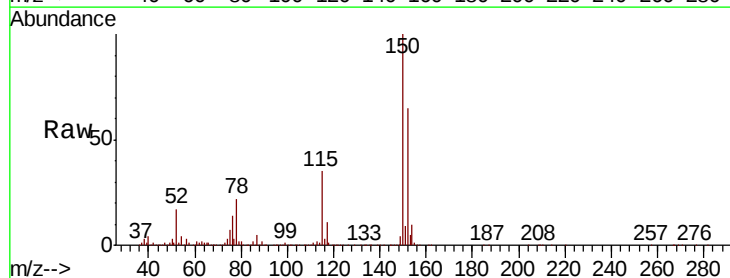
Instrument :
MSVOA_X
ClientSampleId :

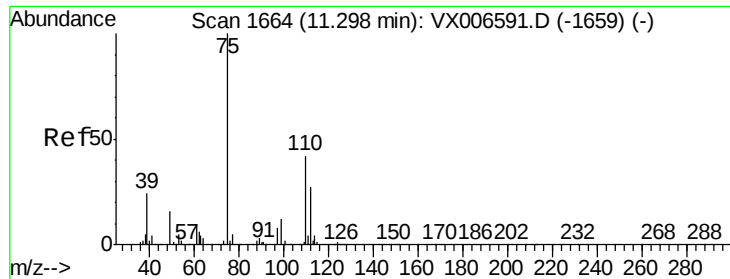
Tot Ion:164 Resp: 1913
Ion Ratio Lower Upper
164 100
166 125.6 102.5 153.7
129 82.1 75.1 112.7
131 95.9 72.7 109.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006695.D
Acq: 21 Dec 2018 00:41

Tgt Ion:152 Resp: 425701
Ion Ratio Lower Upper
152 100
115 56.8 39.1 117.2
150 158.1 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 25.001 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

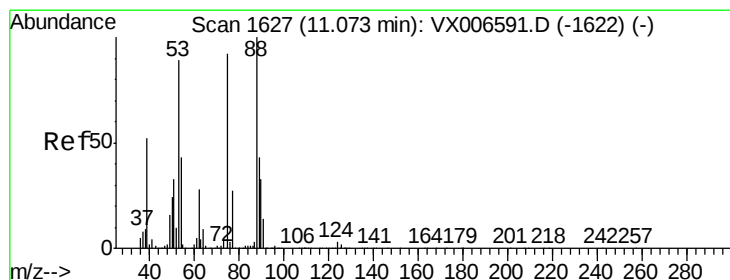
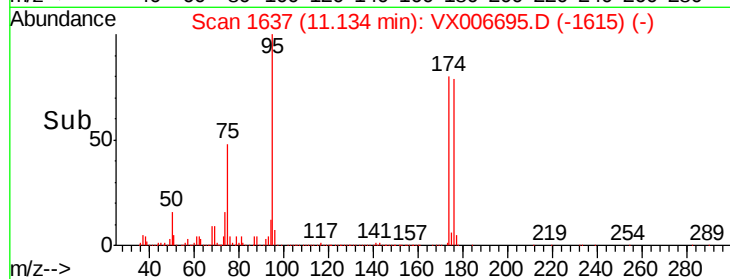
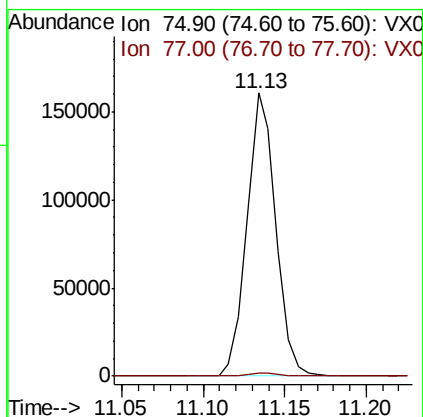
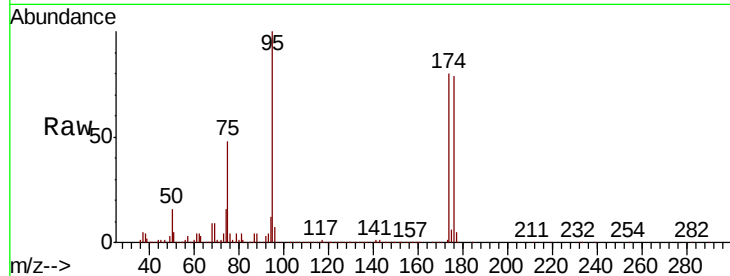
ClientSampleId :

Tot Ion: 75 Resp: 197790

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.877 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

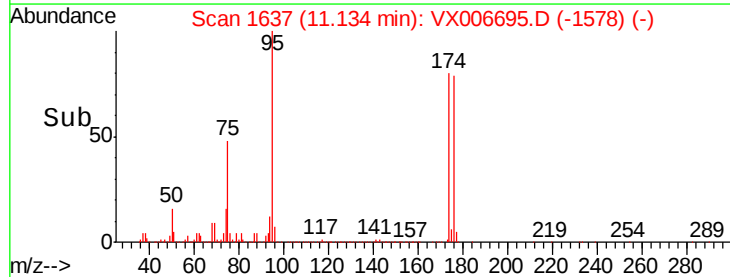
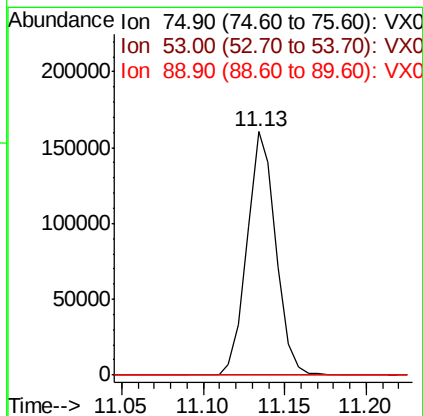
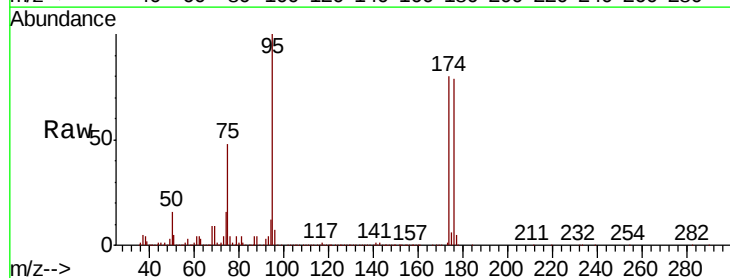
Tgt Ion: 75 Resp: 197790

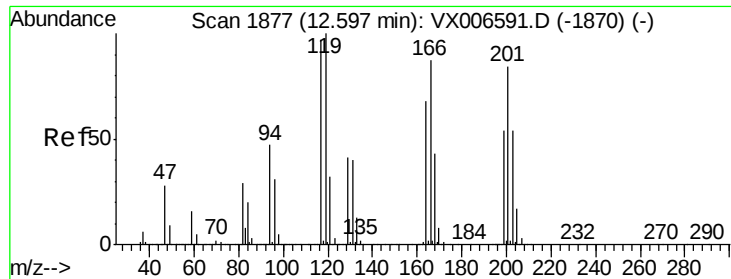
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.314 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006695.D

Acq: 21 Dec 2018 00:41

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 89

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#

