

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006569.D
 Acq On : 17 Dec 2018 13:39
 Operator : JC/MD
 Sample : J6405-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 18 00:38:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	687418	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1094448	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	993086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	459996	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	375865	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
35) Dibromofluoromethane	5.51	113	331943	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	8.71	98	1289897	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	11.13	95	463500	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	

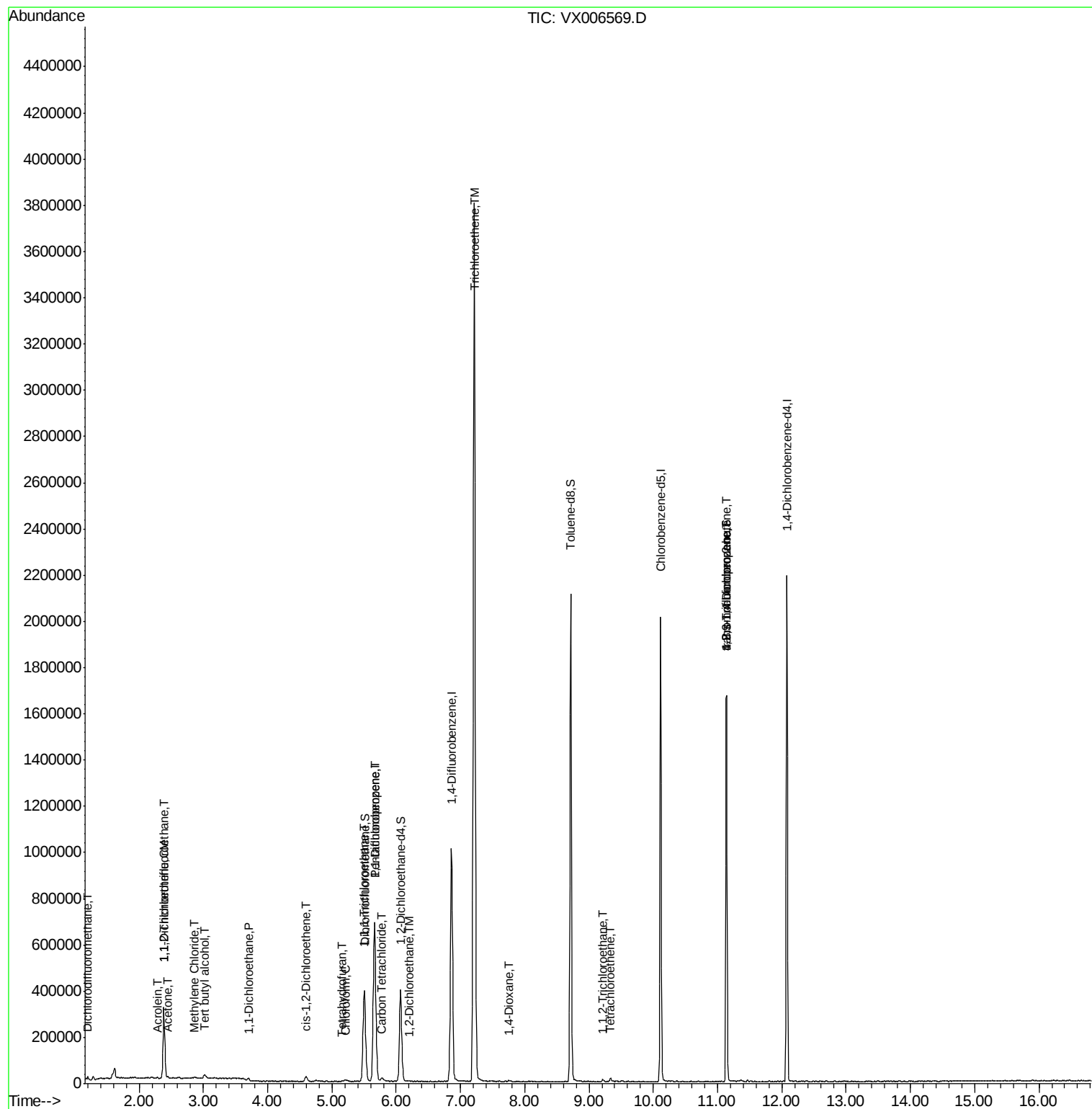
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	6221	0.924	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	95570	14.708	ug/l	98
11) Tert butyl alcohol	3.02	59	9489	4.944	ug/l	98
12) 1,1-Dichloroethene	2.38	96	34472	5.542	ug/l	94
13) Acrolein	2.29	56	389	0.371	ug/l #	1
16) Acetone	2.44	43	4904	1.489	ug/l #	86
20) Methylene Chloride	2.86	84	2991	0.427	ug/l #	69
24) 1,1-Dichloroethane	3.70	63	12198	1.112	ug/l #	94
27) cis-1,2-Dichloroethene	4.60	96	14293	1.933	ug/l	89
29) Tetrahydrofuran	5.16	42	862	0.264	ug/l #	16
30) Chloroform	5.21	83	9656	0.838	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	5134	0.468	ug/l #	45
36) 1,1-Dichloropropene	5.66	75	46905	5.089	ug/l #	48
38) Carbon Tetrachloride	5.78	117	11485	1.059	ug/l	89
42) 1,2-Dichloroethane	6.21	62	2129	0.236	ug/l #	67
44) Trichloroethene	7.21	130	1489795	178.154	ug/l	90
49) 1,4-Dioxane	7.75	88	3968	19.231	ug/l #	86
55) 1,1,2-Trichloroethane	9.21	97	3936	0.533	ug/l	95
64) Tetrachloroethene	9.34	164	2370	0.317	ug/l #	81
76) 1,2,3-Trichloropropane	11.13	75	220898	24.880	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	220898	58.386	ug/l #	15

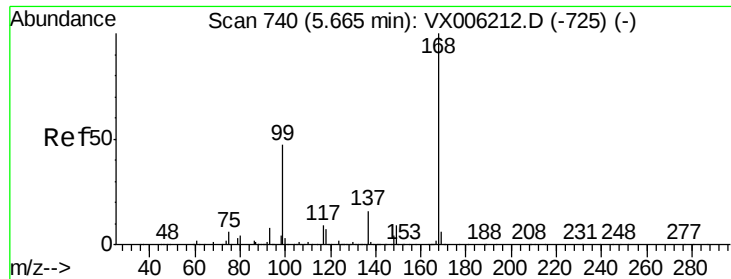
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

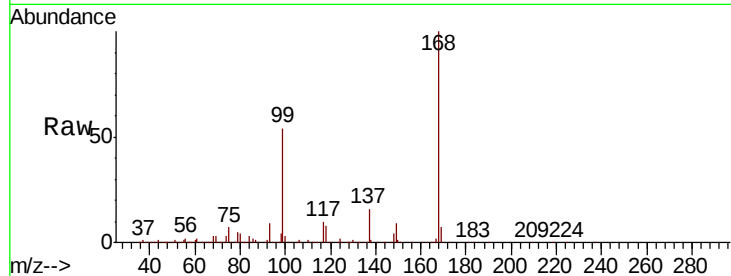
ClientSampleId :

Tot Ion:168 Resp: 687418

Ion Ratio Lower Upper

168 100

99 54.0 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

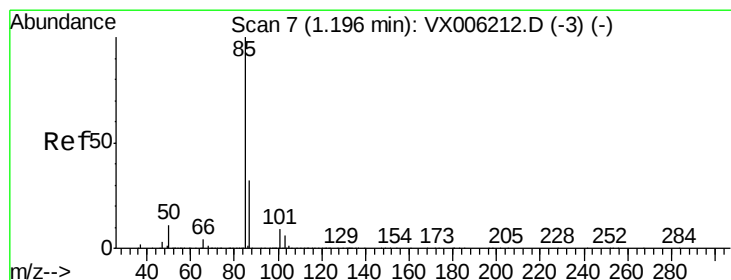
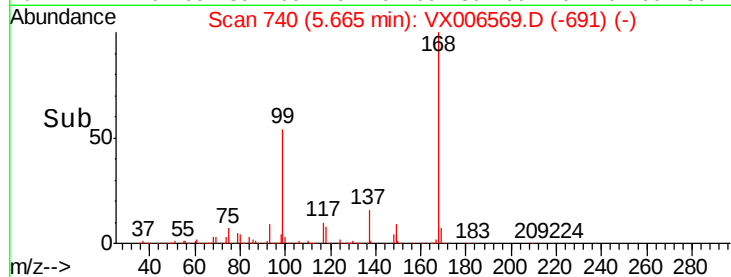
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.924 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006569.D

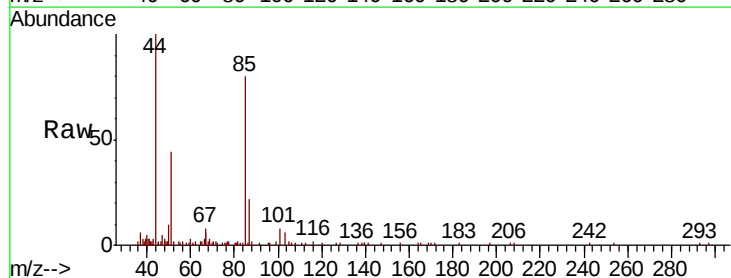
Acq: 17 Dec 2018 13:39

Tgt Ion: 85 Resp: 6221

Ion Ratio Lower Upper

85 100

87 27.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

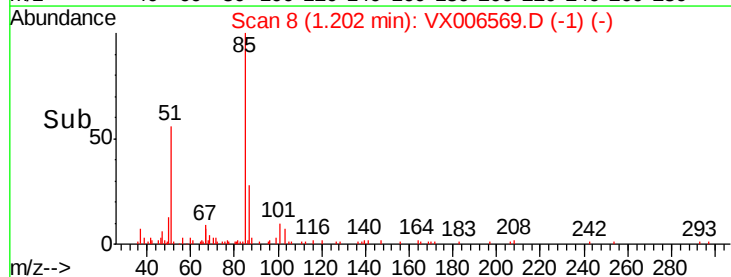
6000

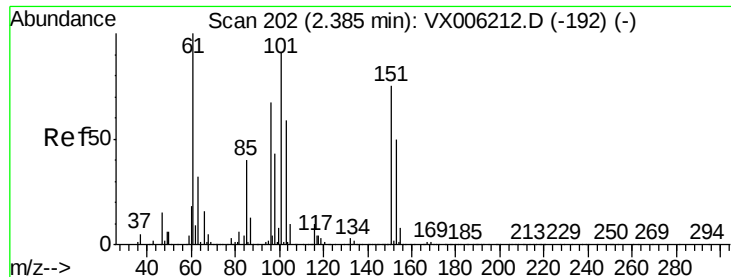
4000

2000

0

Time--> 1.15 1.20 1.25





#9

1,1,2-Trichlorotrifluoroethane

Concen: 14.708 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

ClientSampleId :

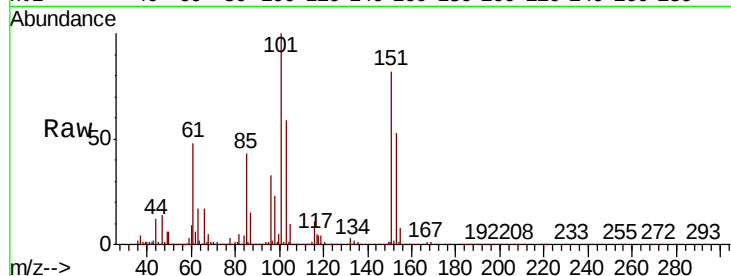
Tot Ion:101 Resp: 95570

Ion Ratio Lower Upper

101 100

85 42.6 35.5 53.3

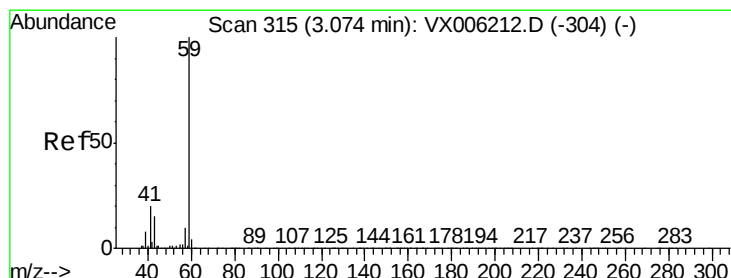
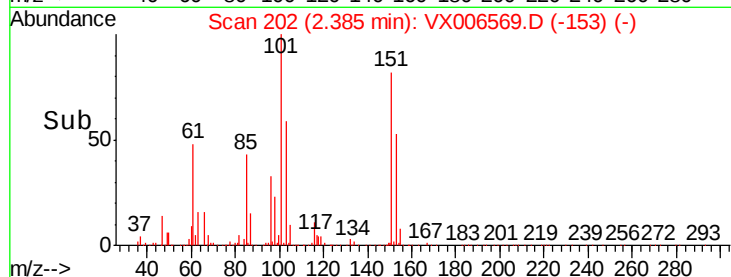
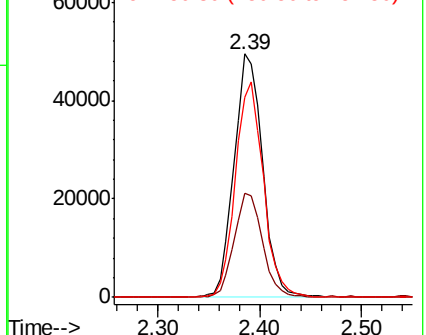
151 86.8 68.6 103.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 4.944 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006569.D

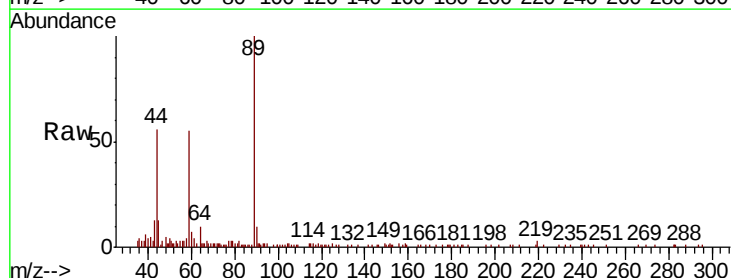
Acq: 17 Dec 2018 13:39

Tgt Ion: 59 Resp: 9489

Ion Ratio Lower Upper

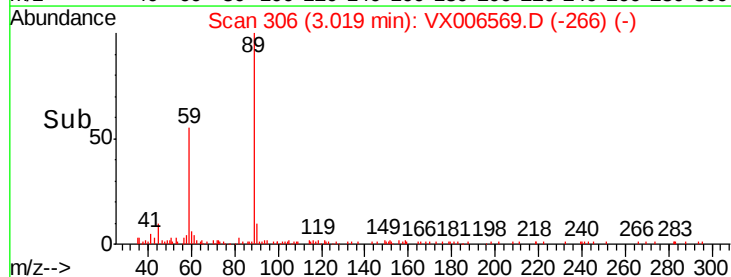
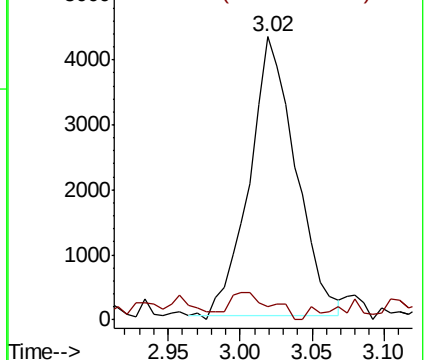
59 100

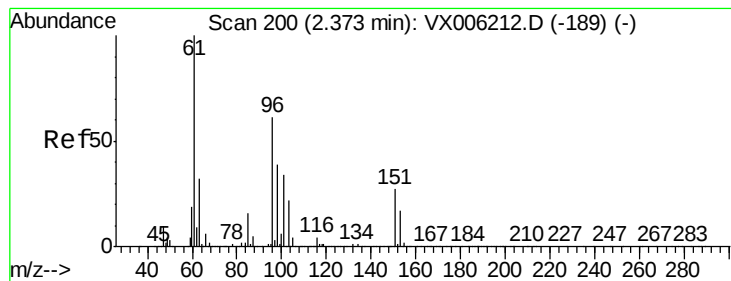
57 9.4 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 5.542 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

ClientSampleId :

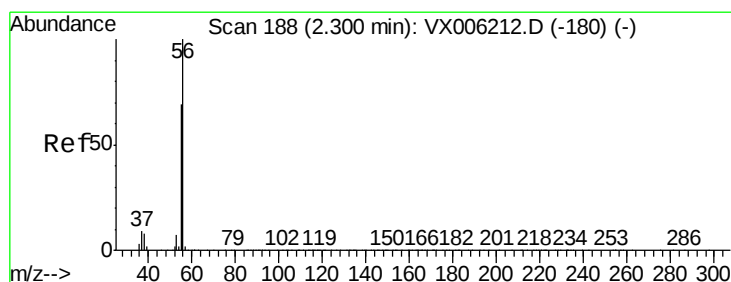
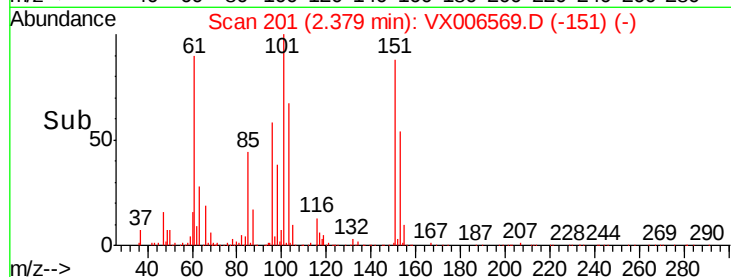
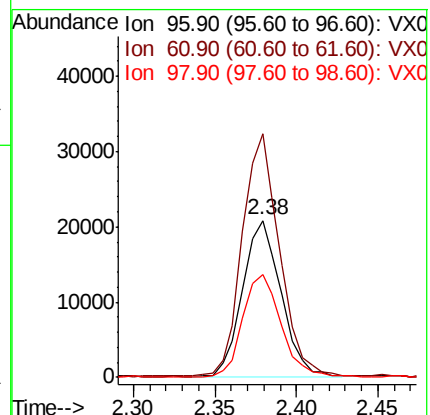
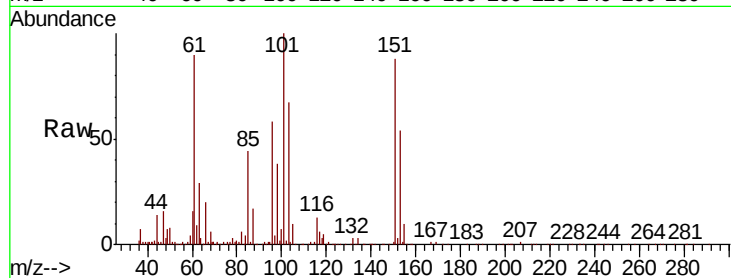
Tot Ion: 96 Resp: 34472

Ion Ratio Lower Upper

96 100

61 154.4 131.7 197.5

98 65.2 51.8 77.6



#13

Acrolein

Concen: 0.371 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX006569.D

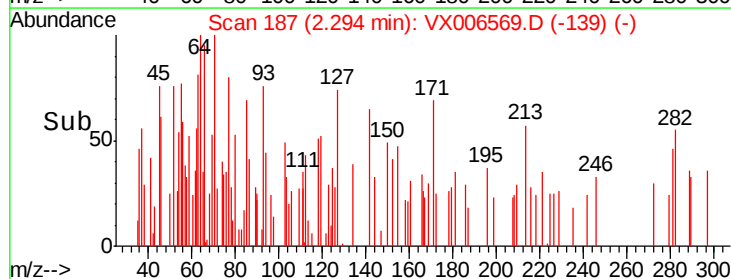
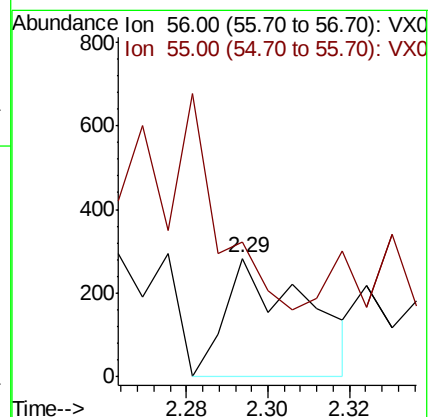
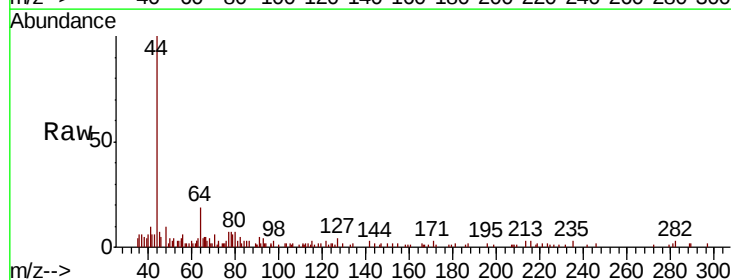
Acq: 17 Dec 2018 13:39

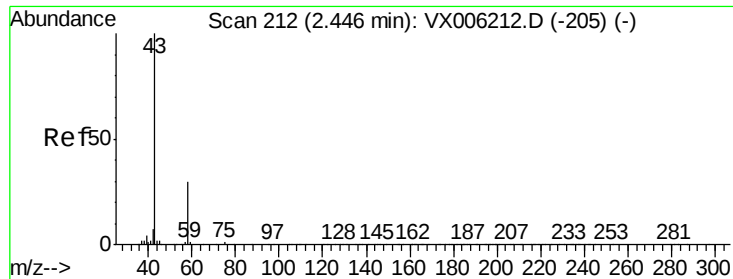
Tgt Ion: 56 Resp: 389

Ion Ratio Lower Upper

56 100

55 168.1 57.8 86.6#

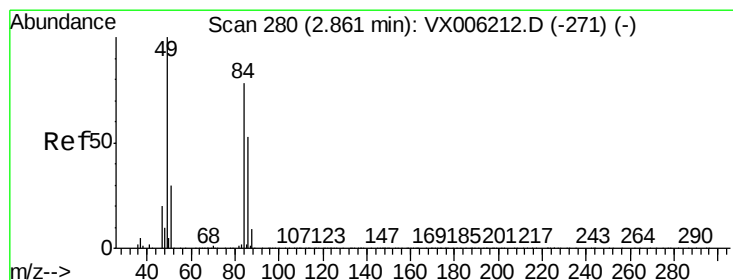
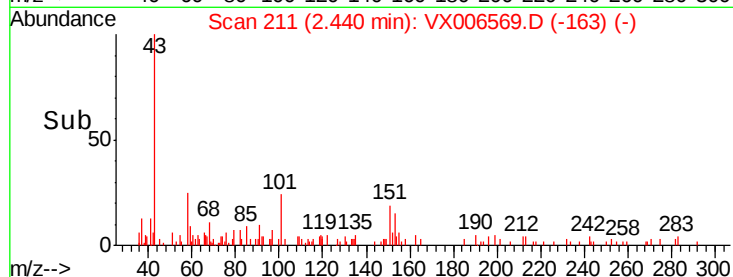
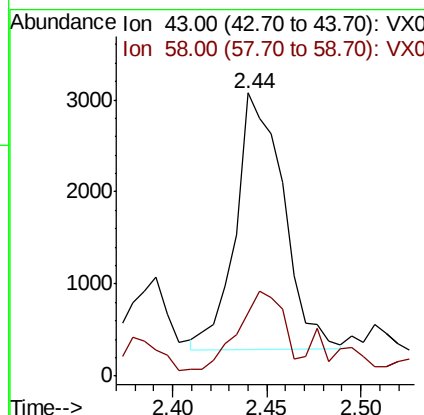
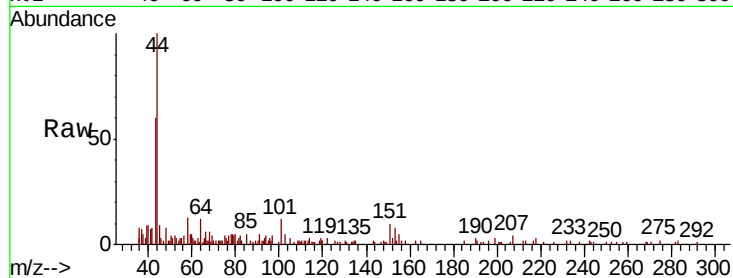




#16
Acetone
Concen: 1.489 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

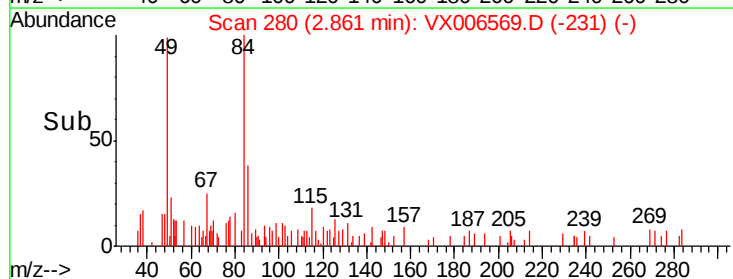
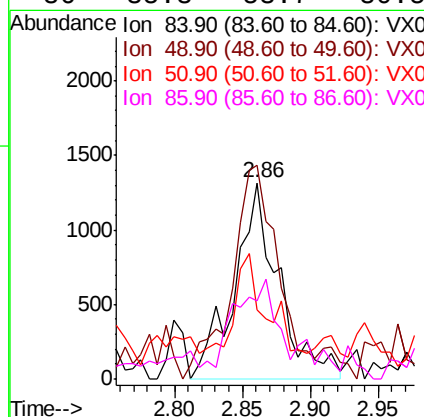
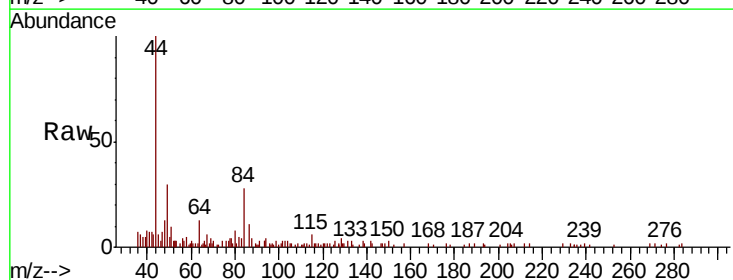
Instrument :
MSVOA_X
ClientSampleId :

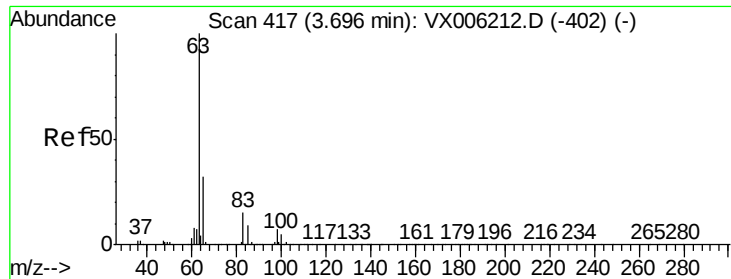
Tot Ion: 43 Resp: 4904
Ion Ratio Lower Upper
43 100
58 22.5 24.0 36.0#



#20
Methylene Chloride
Concen: 0.427 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Tgt Ion: 84 Resp: 2991
Ion Ratio Lower Upper
84 100
49 101.7 102.2 153.4#
51 13.5 31.1 46.7#
86 35.3 53.7 80.5#





#24

1,1-Dichloroethane

Concen: 1.112 ug/l

RT: 3.70 min Scan# 418

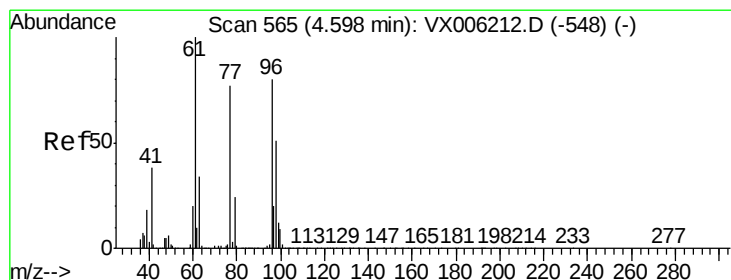
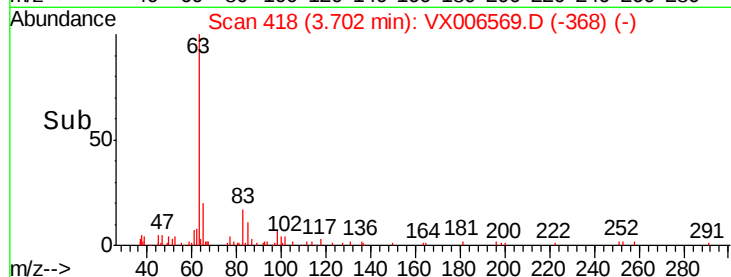
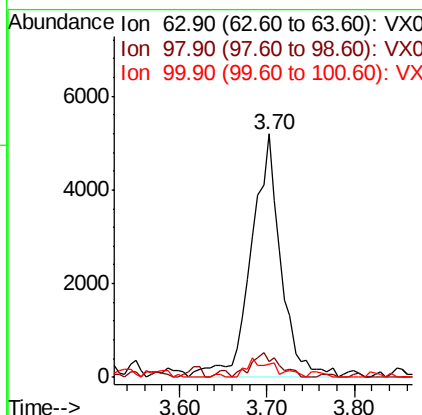
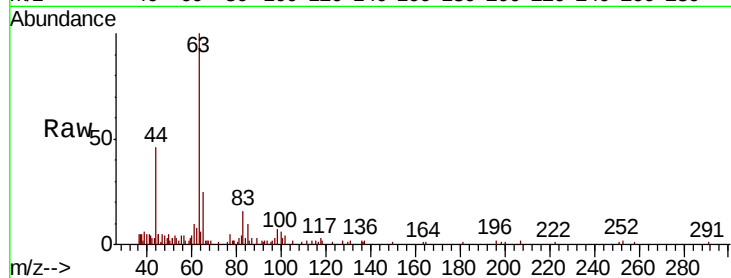
Delta R.T. 0.01 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	63	Resp:	12198
Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.8	11.4
100	8.3	2.5	7.4#



#27

cis-1,2-Dichloroethene

Concen: 1.933 ug/l

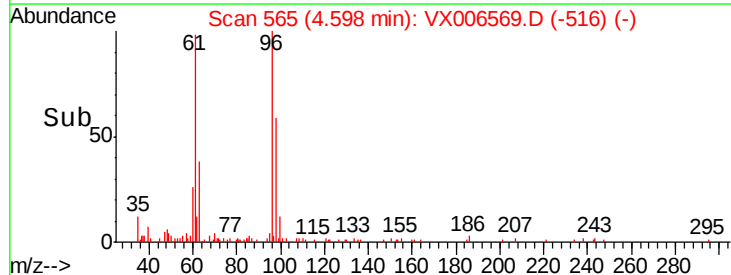
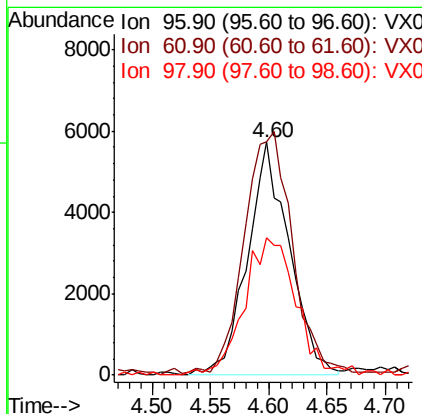
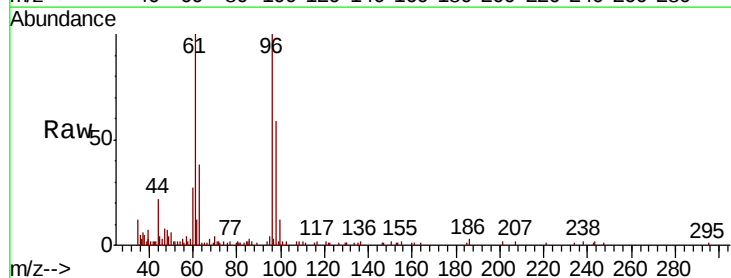
RT: 4.60 min Scan# 565

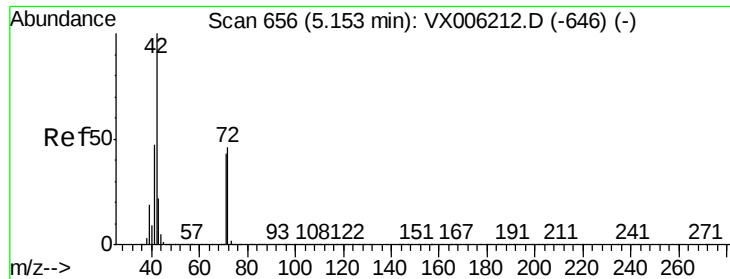
Delta R.T. 0.00 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Tgt Ion:	96	Resp:	14293
Ion	Ratio	Lower	Upper
96	100		
61	118.2	0.0	265.0
98	71.7	0.0	130.2

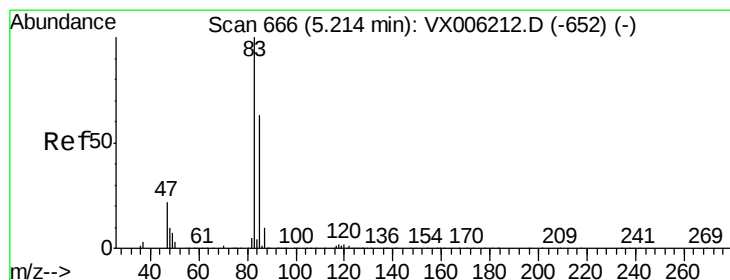
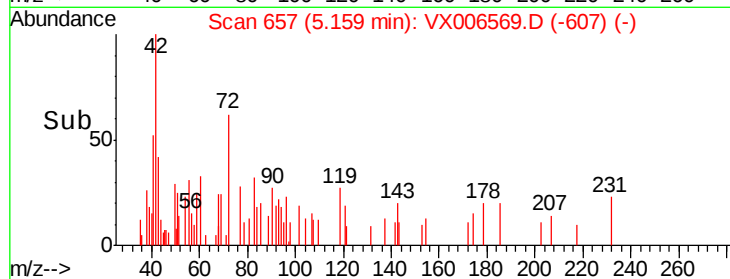
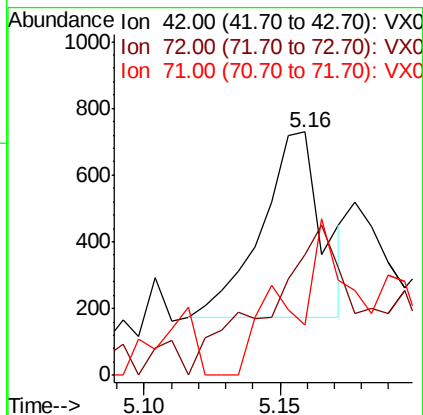
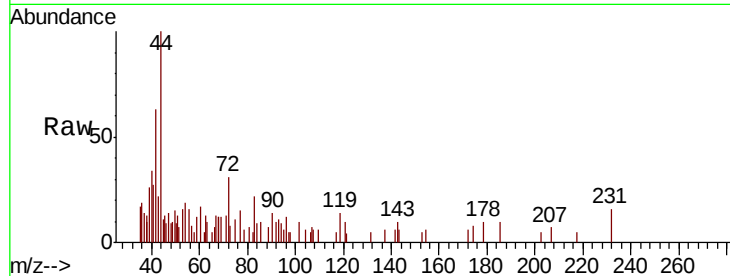




#29
Tetrahydrofuran
Concen: 0.264 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

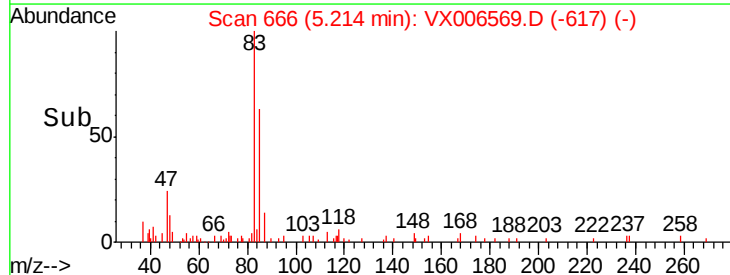
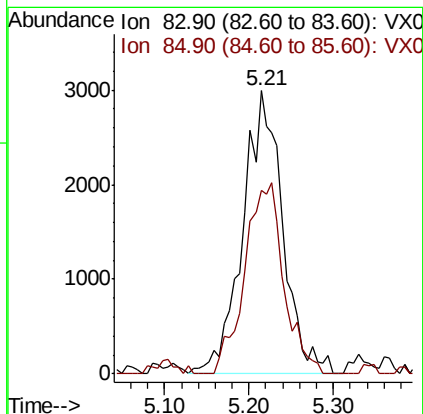
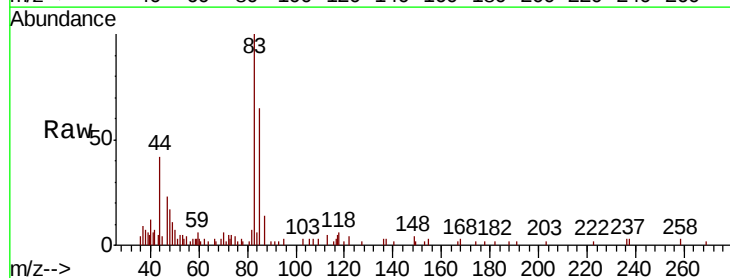
Instrument :
MSVOA_X
ClientSampleId :

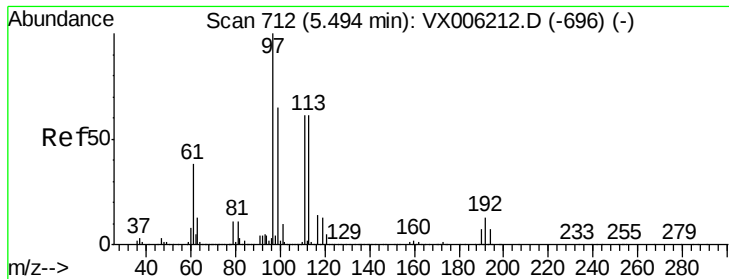
Tot Ion: 42 Resp: 862
Ion Ratio Lower Upper
42 100
72 117.9 37.8 56.8#
71 84.0 35.2 52.8#



#30
Chloroform
Concen: 0.838 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Tgt Ion: 83 Resp: 9656
Ion Ratio Lower Upper
83 100
85 65.0 50.3 75.5





#32

1,1,1-Trichloroethane

Concen: 0.468 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

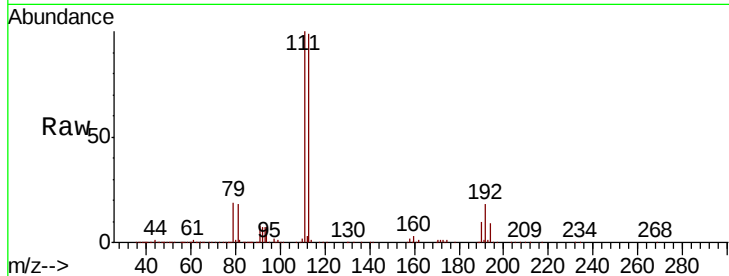
Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

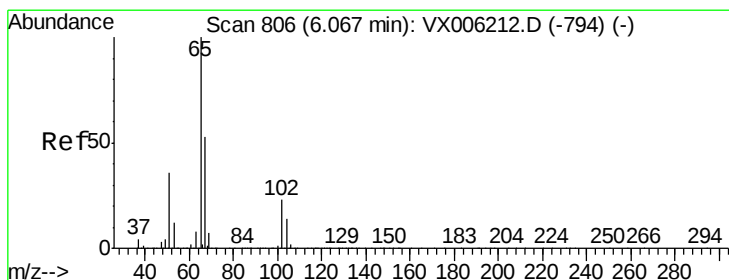
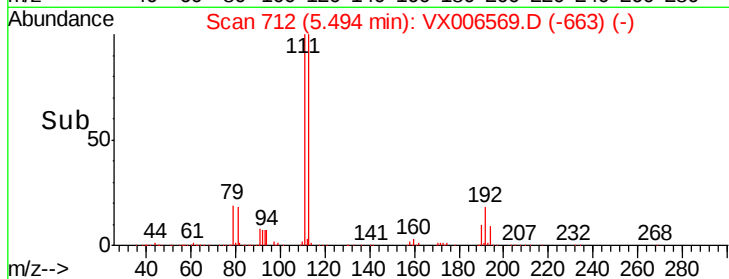
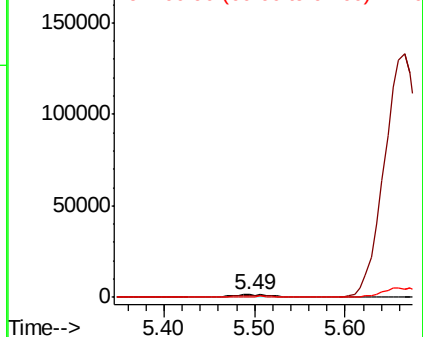
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 97 Resp: 5134

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	44.1	30.6	46.0



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.562 ug/l

RT: 6.07 min Scan# 806

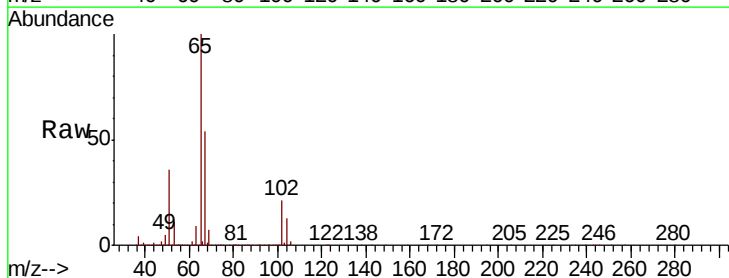
Delta R.T. 0.00 min

Lab File: VX006569.D

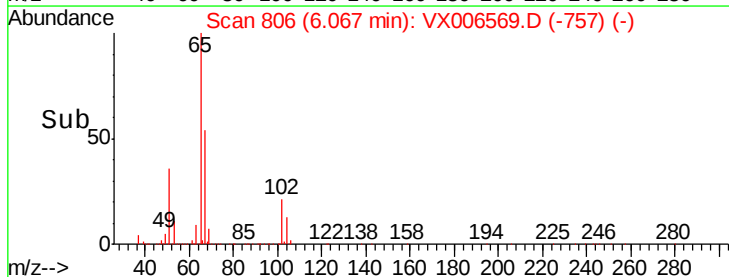
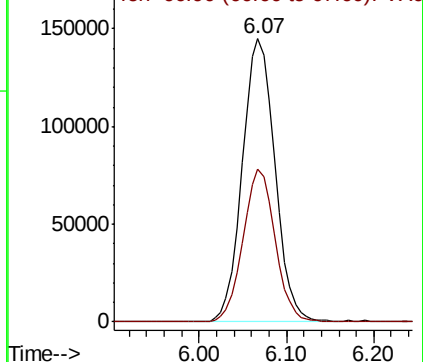
Acq: 17 Dec 2018 13:39

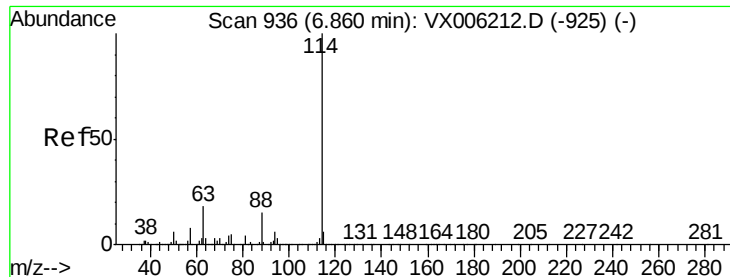
Tgt Ion: 65 Resp: 375865

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	107.2



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: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

ClientSampleId :

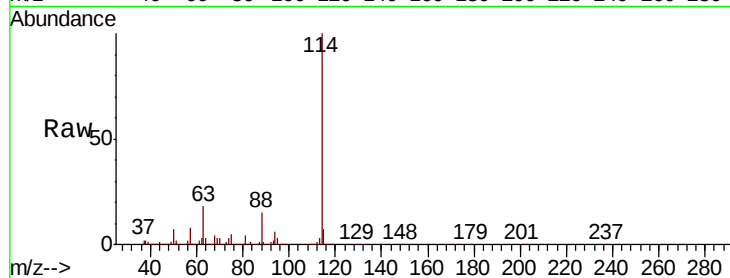
Tot Ion:114 Resp: 1094448

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.6

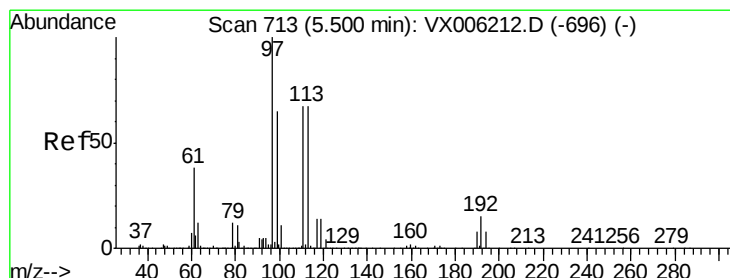
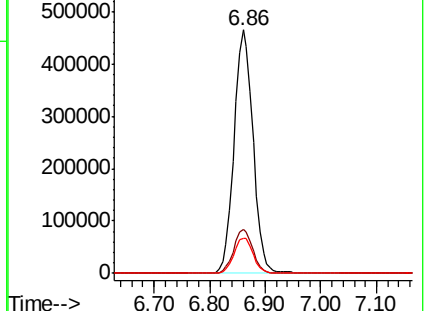
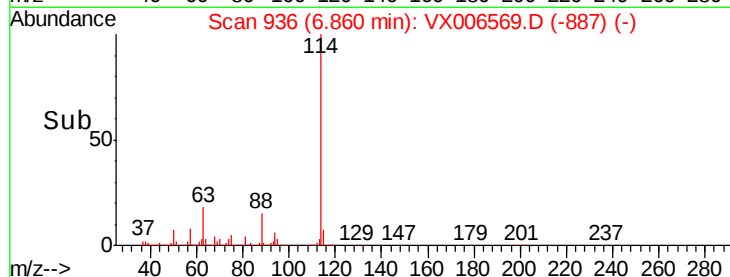
88 14.5 0.0 29.0



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: 46.844 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

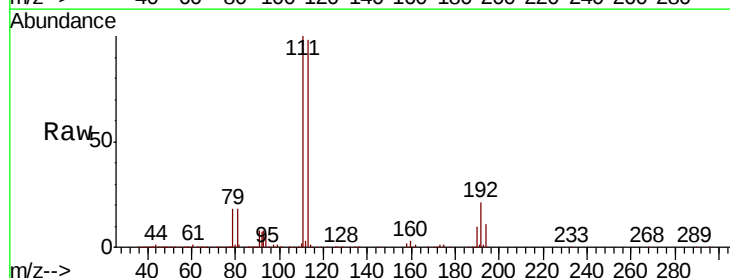
Tgt Ion:113 Resp: 331943

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

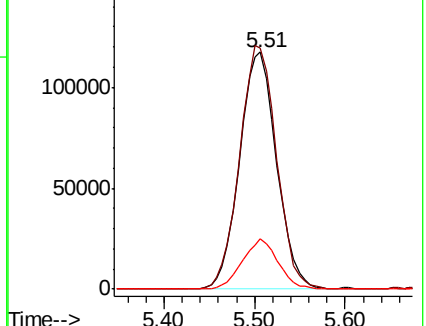
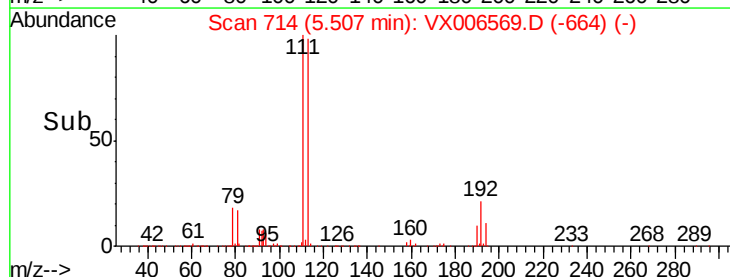
192 20.5 18.2 27.2

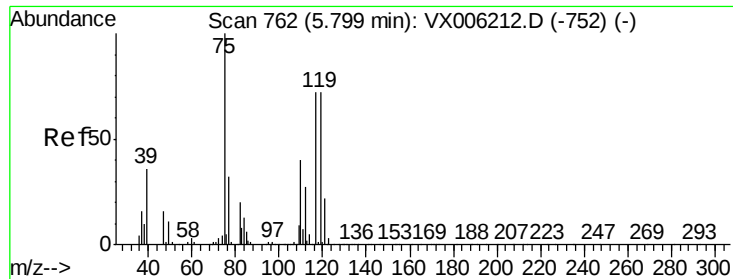


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

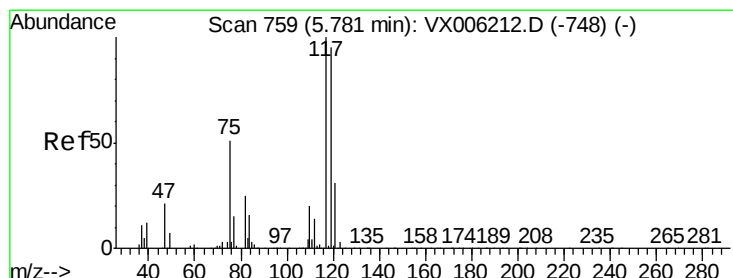
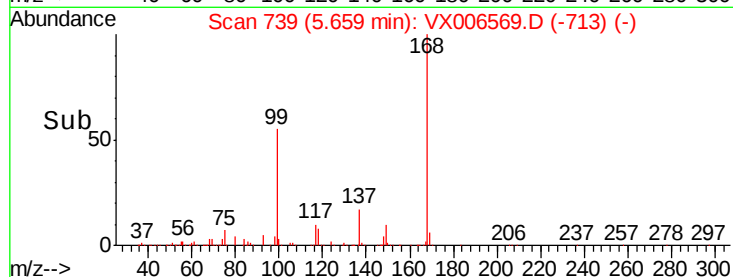
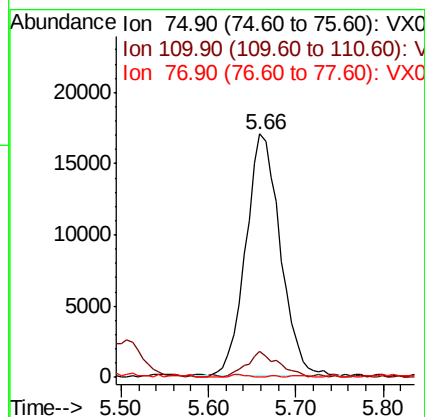
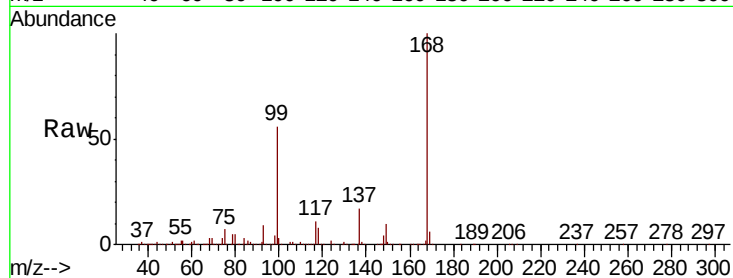




#36
 1,1-Dichloropropene
 Concen: 5.089 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006569.D
 Acq: 17 Dec 2018 13:39

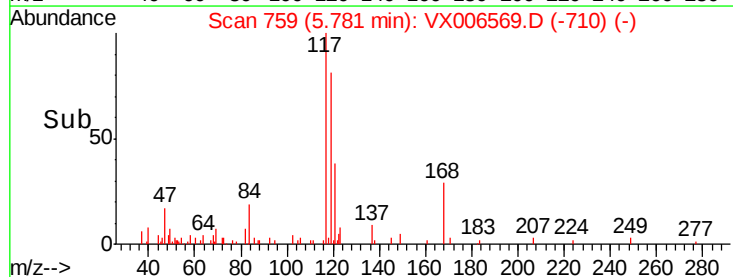
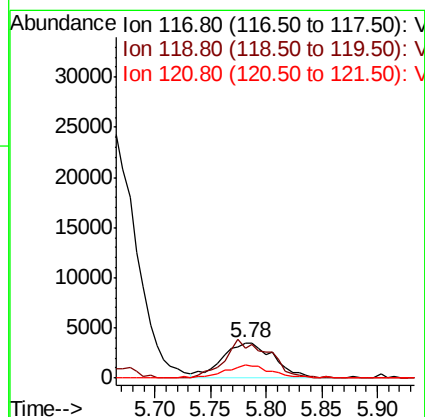
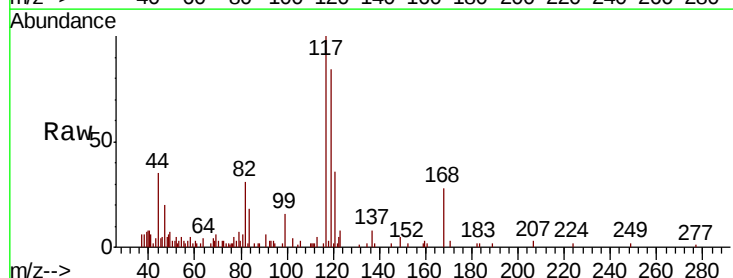
Instrument :
 MSVOA_X
 ClientSampleId :

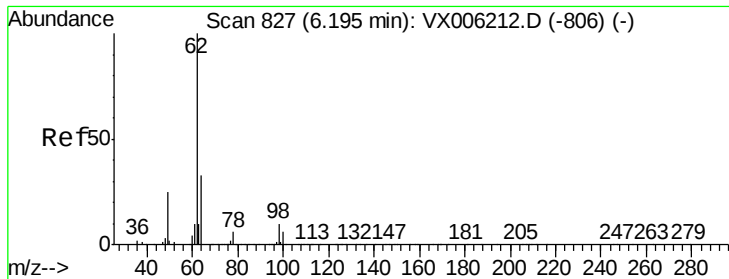
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.0	20.4	61.3#
77	0.2	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 1.059 ug/l
 RT: 5.78 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VX006569.D
 Acq: 17 Dec 2018 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	83.8	75.8	113.8
121	36.3	24.6	37.0





#42

1,2-Dichloroethane

Concen: 0.236 ug/l

RT: 6.21 min Scan# 829

Delta R.T. 0.01 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

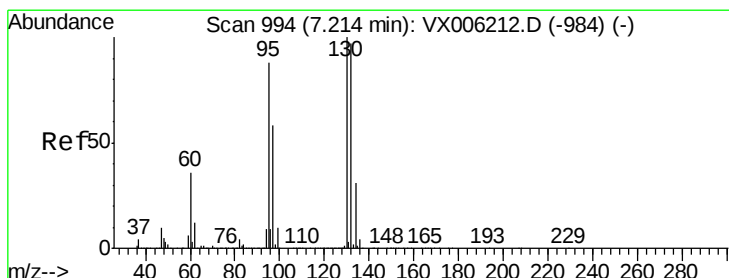
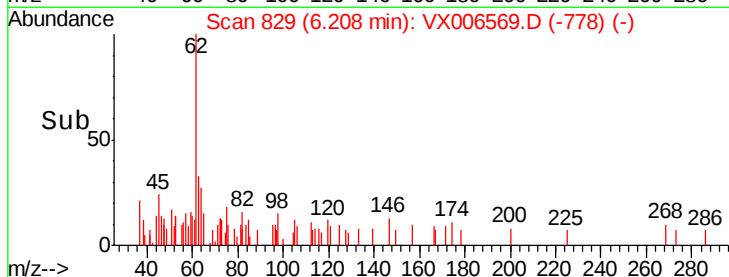
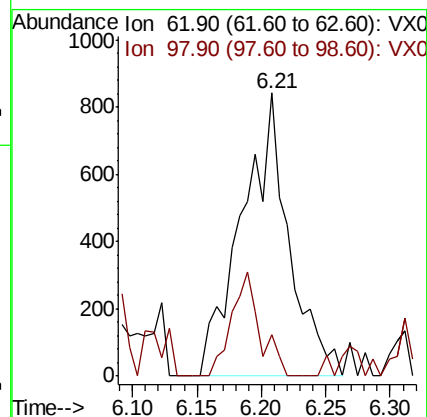
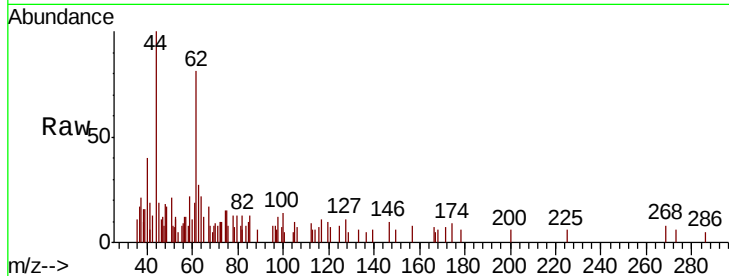
ClientSampleId :

Tot Ion: 62 Resp: 2129

Ion Ratio Lower Upper

62 100

98 22.5 0.0 20.2#



#44

Trichloroethene

Concen: 178.154 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006569.D

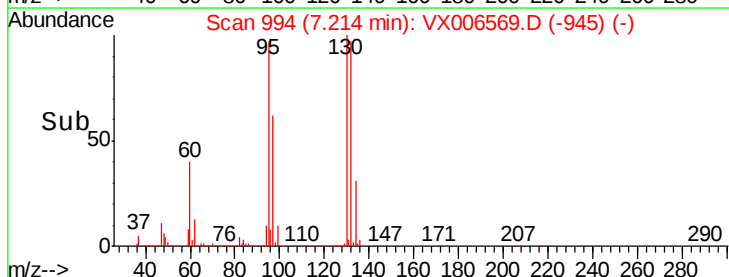
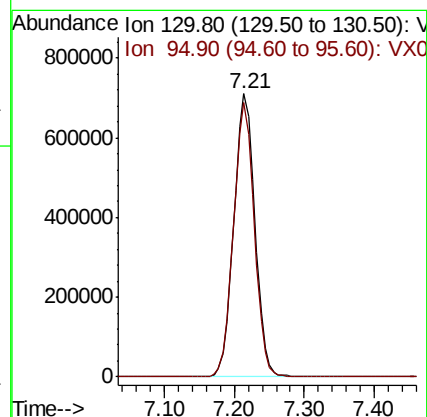
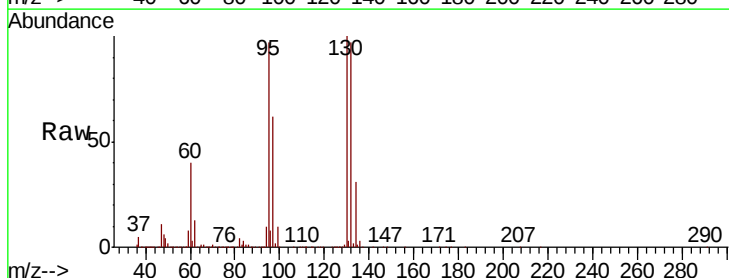
Acq: 17 Dec 2018 13:39

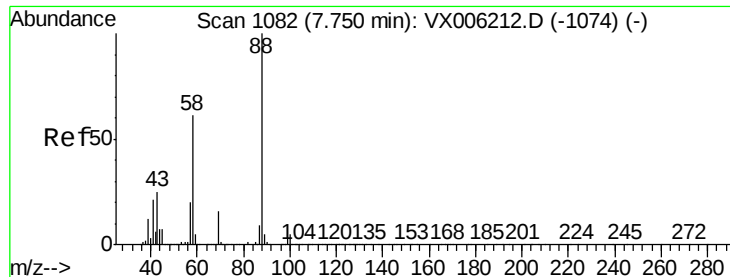
Tgt Ion:130 Resp: 1489795

Ion Ratio Lower Upper

130 100

95 96.7 0.0 175.8

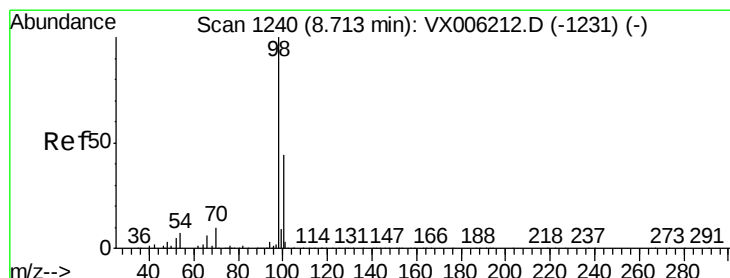
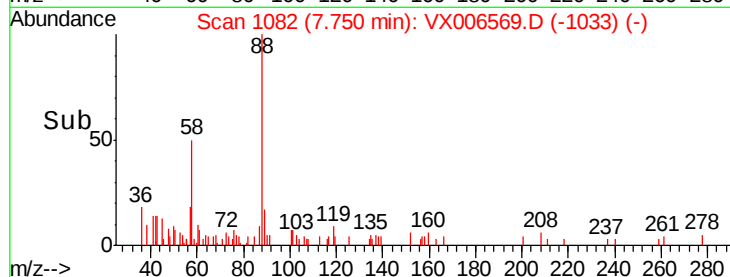
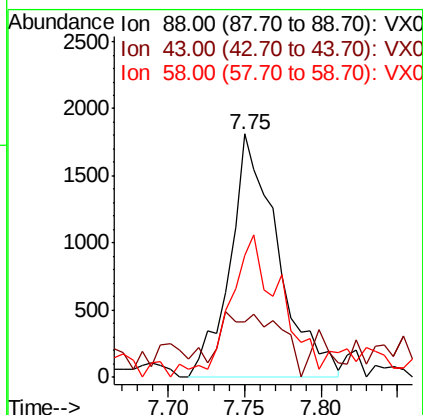
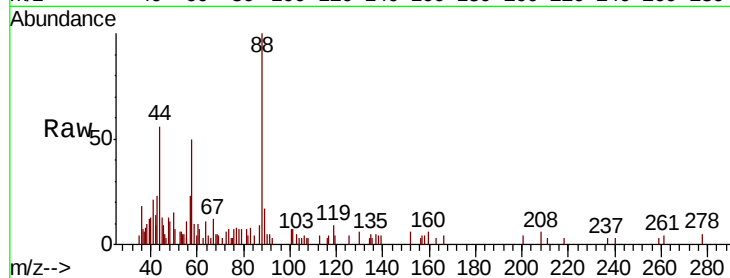




#49
1,4-Dioxane
Concen: 19.231 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

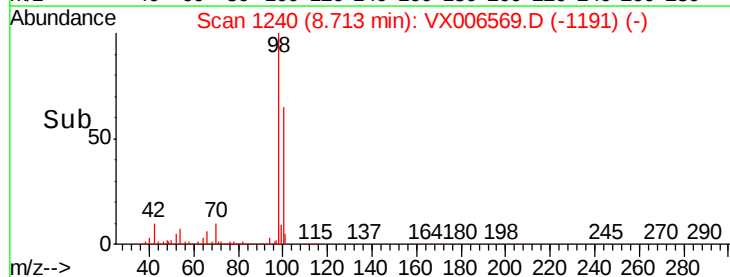
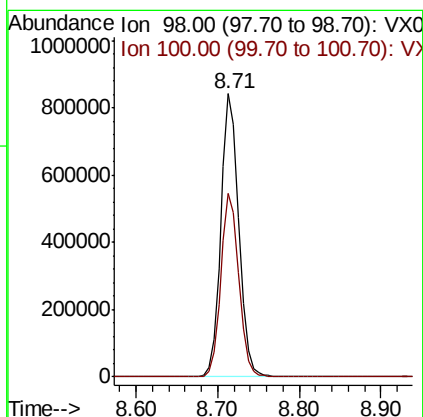
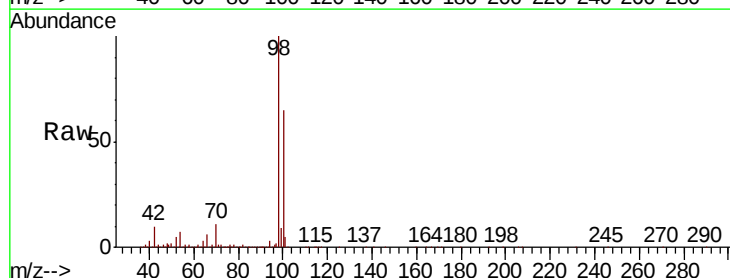
Instrument :
MSVOA_X
ClientSampleId :

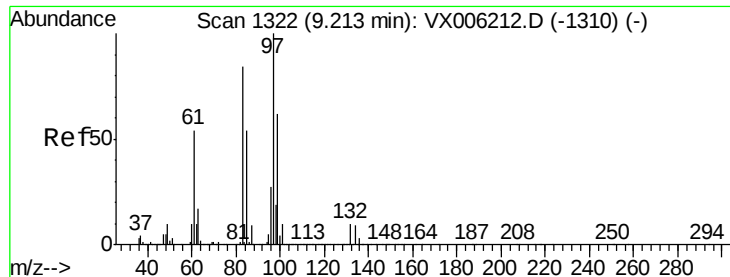
Tot Ion	88	Resp	3968
Ion	Ratio	Lower	Upper
88	100		
43	10.1	23.2	34.8#
58	61.3	51.4	77.0



#50
Toluene-d8
Concen: 50.044 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Tgt Ion	98	Resp	1289897
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#55

1,1,2-Trichloroethane

Concen: 0.533 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 97 Resp: 3936

Ion	Ratio	Lower	Upper
97	100		
83	82.3	67.1	100.7
85	46.9	43.2	64.8
99	57.9	49.8	74.6

Abundance

Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Time-->

9.15 9.20 9.25 9.30

3000

2000

1000

0

9.21

9.15 9.20 9.25 9.30

Time-->

9.15 9.20 9.25 9.30

Time-->

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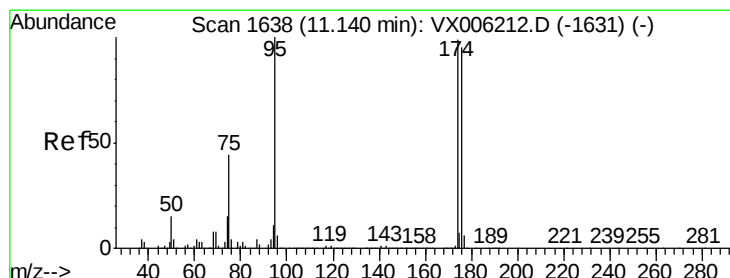
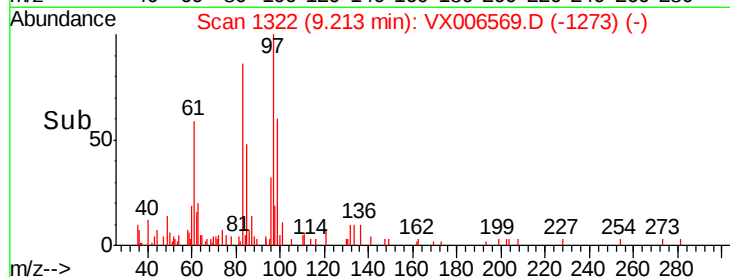
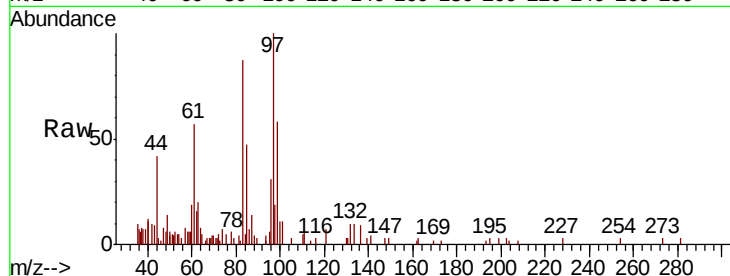
Time-->

Time-->

Time-->

Time-->

Time-->



#62

4-Bromofluorobenzene

Concen: 47.720 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Tgt Ion: 95 Resp: 463500

Ion	Ratio	Lower	Upper
95	100		
174	86.2	0.0	187.0
176	83.3	0.0	181.8

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

Time-->

11.10 11.13 11.16 11.19 11.22 11.25 11.28 11.31 11.34 11.37 11.40 11.43 11.46 11.49 11.52 11.55 11.58 11.61 11.64 11.67 11.70 11.73 11.76 11.79 11.82 11.85 11.88 11.91 11.94 11.97 12.00

500000

400000

300000

200000

100000

0

11.10 11.13 11.16 11.19 11.22 11.25 11.28 11.31 11.34 11.37 11.40 11.43 11.46 11.49 11.52 11.55 11.58 11.61 11.64 11.67 11.70 11.73 11.76 11.79 11.82 11.85 11.88 11.91 11.94 11.97 12.00

Time-->

Time-->

Time-->

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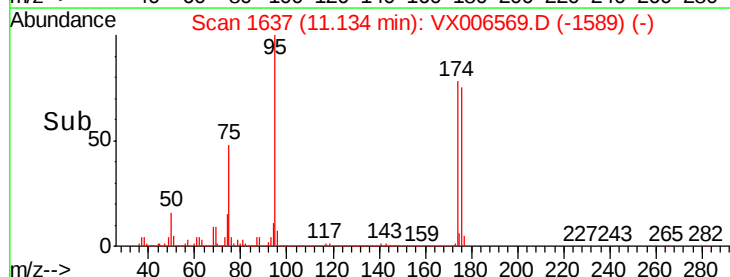
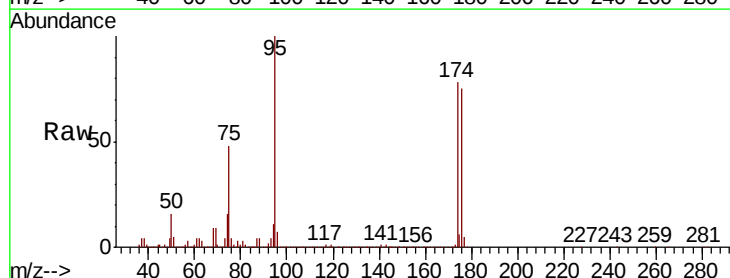
Time-->

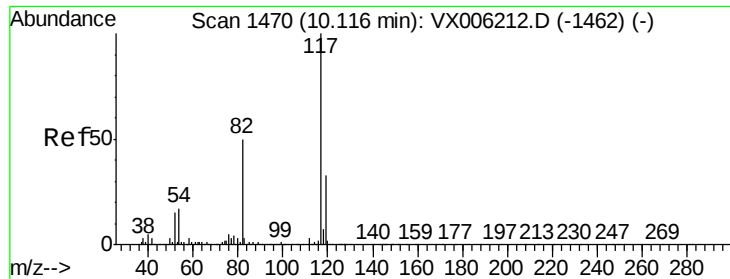
Time-->

Time-->

Time-->

Time-->

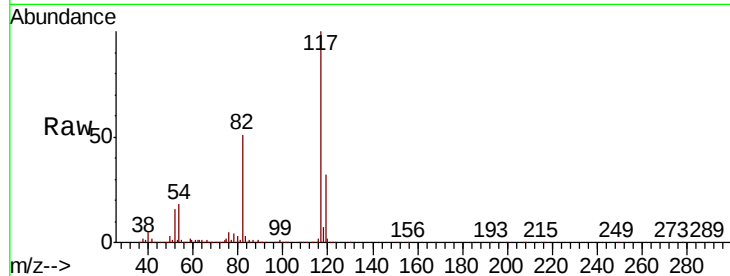




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.8	39.6	59.4
119	31.7	26.3	39.5

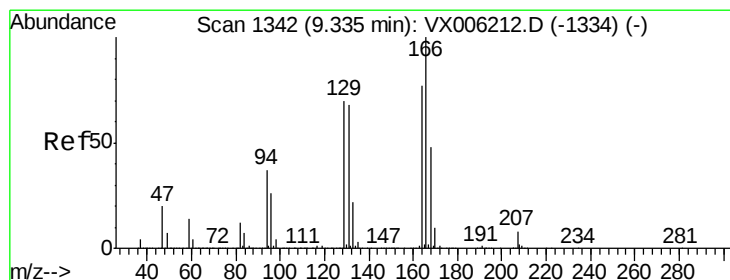
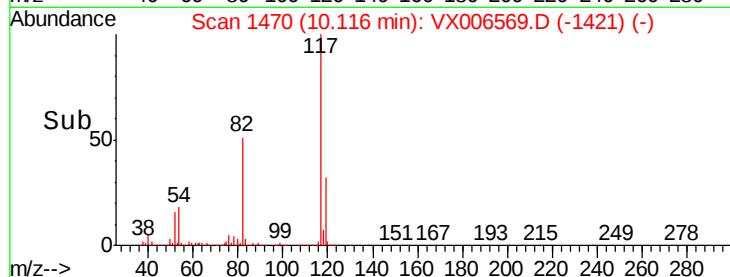
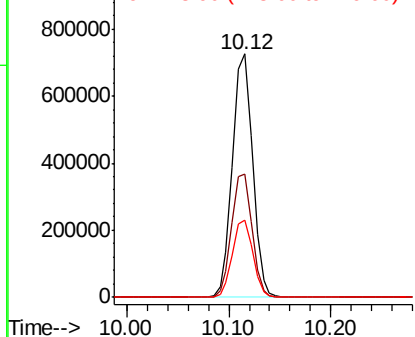


Abundance

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: 0.317 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	99.9	104.2	156.2#
129	72.2	72.6	108.8#
131	96.8	70.3	105.5

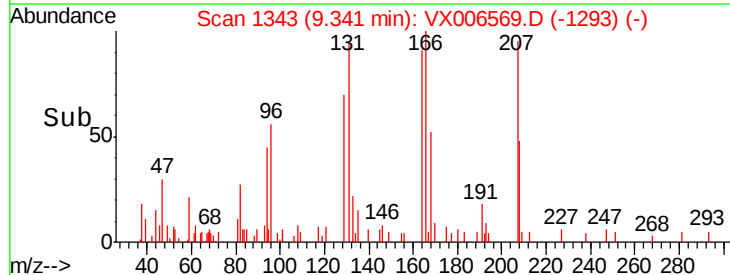
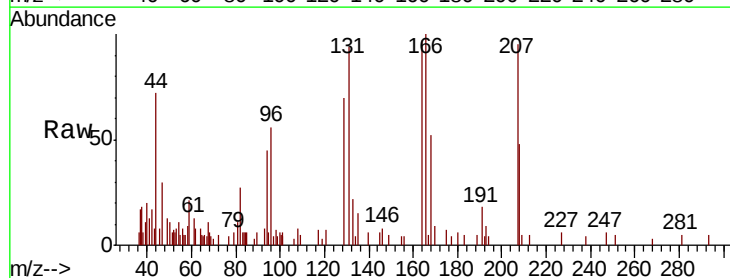
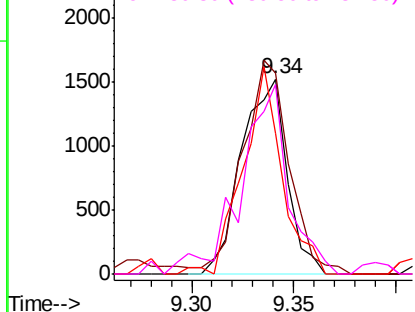
Abundance

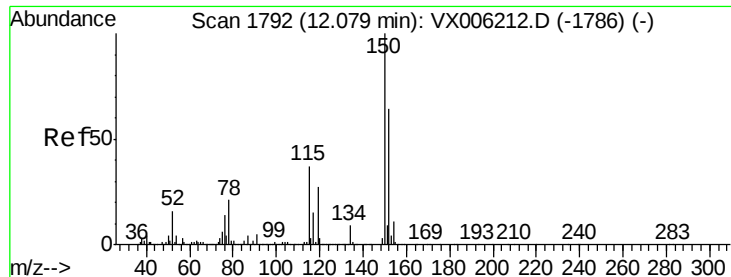
Ion 163.80 (163.50 to 164.50): V

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



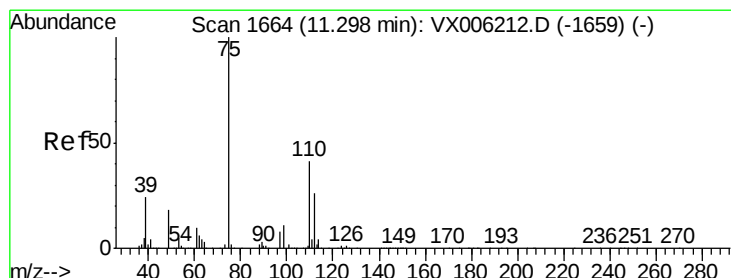
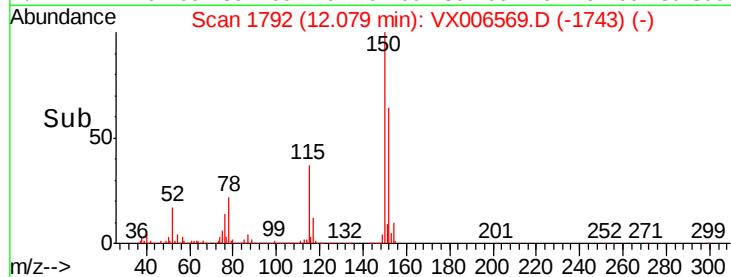
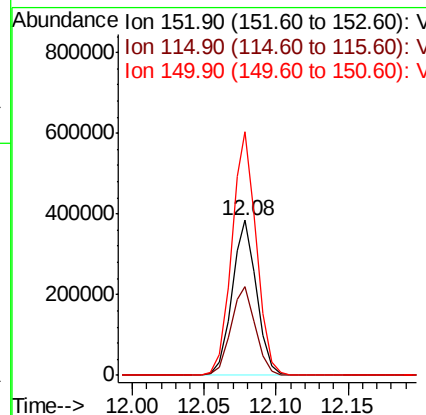
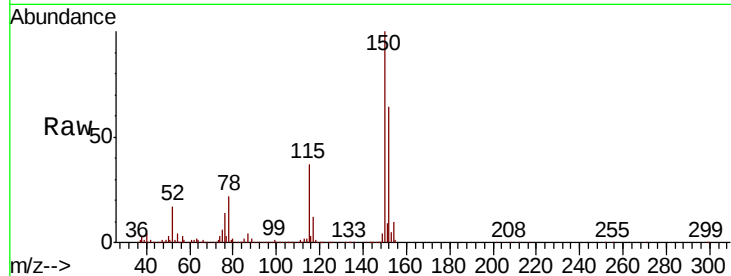


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Instrument :
MSVOA_X
ClientSampleId :

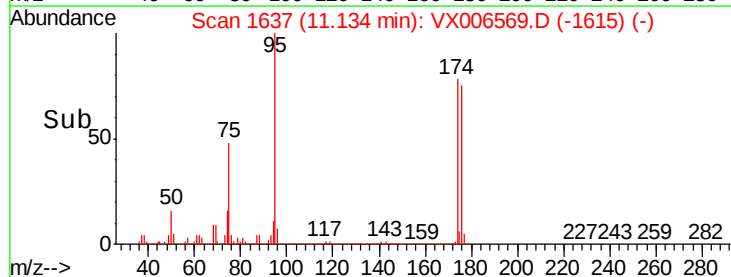
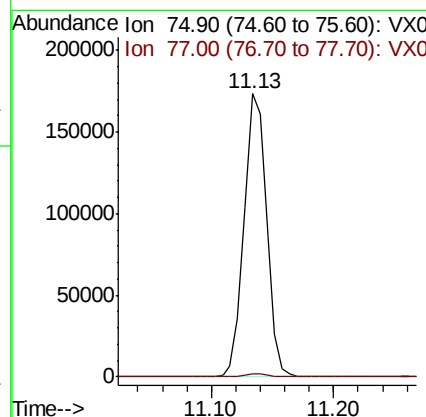
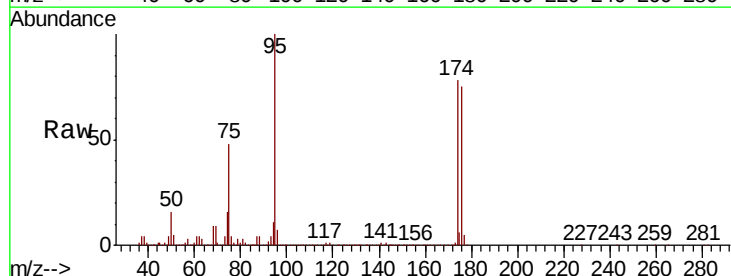
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.8	39.0	116.9
150	157.1	0.0	345.8

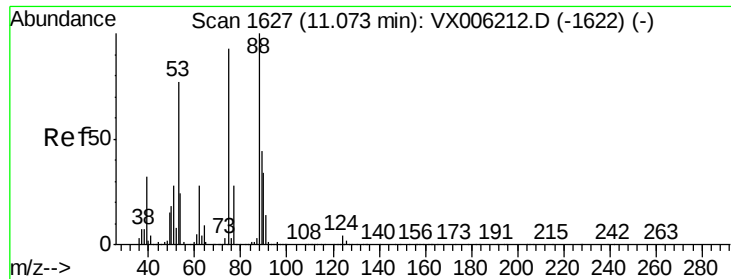


#76

1,2,3-Trichloropropane
Concen: 24.880 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006569.D
Acq: 17 Dec 2018 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.9	59.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 58.386 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006569.D

Acq: 17 Dec 2018 13:39

Instrument :

MSVOA_X

ClientSampleId :

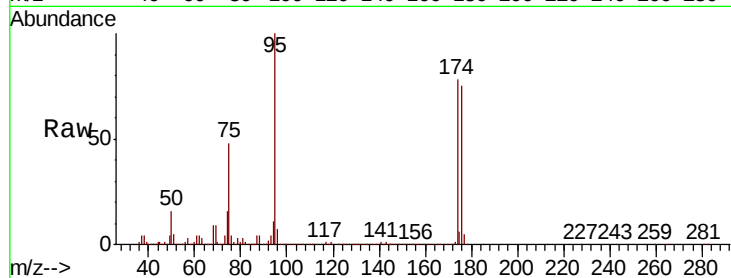
Tot Ion: 75 Resp: 220898

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.0 44.2 66.4#



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

