

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006575.D
 Acq On : 17 Dec 2018 16:19
 Operator : JC/MD
 Sample : J6405-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 18 00:40:29 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	684486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1080661	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	990053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	473911	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	379110	54.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.52%	
35) Dibromofluoromethane	5.51	113	330764	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
50) Toluene-d8	8.71	98	1280996	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
62) 4-Bromofluorobenzene	11.13	95	474199	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	

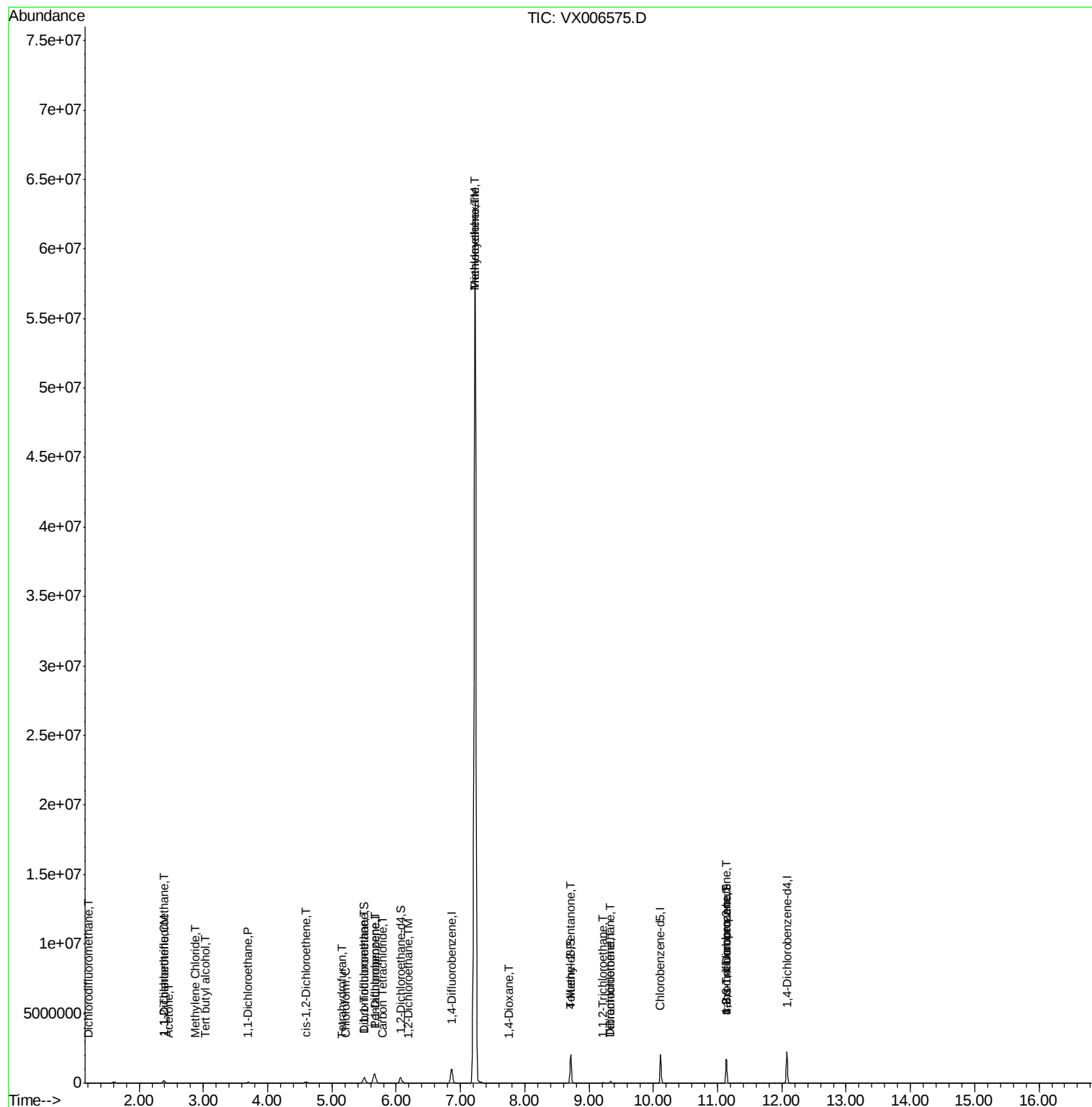
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1393	0.208	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.39	101	37823	5.846	ug/l	98
11) Tert butyl alcohol	3.04	59	1252	0.655	ug/l #	50
12) 1,1-Dichloroethene	2.38	96	34520	5.573	ug/l	97
16) Acetone	2.45	43	1174	0.358	ug/l #	45
20) Methylene Chloride	2.87	84	1424	0.204	ug/l #	61
24) 1,1-Dichloroethane	3.70	63	38813	3.553	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	53409	7.254	ug/l	91
29) Tetrahydrofuran	5.15	42	3876	1.192	ug/l #	69
30) Chloroform	5.21	83	29189	2.543	ug/l	96
32) 1,1,1-Trichloroethane	5.49	97	6639	0.608	ug/l #	37
36) 1,1-Dichloropropene	5.66	75	46461	5.105	ug/l #	48
38) Carbon Tetrachloride	5.79	117	11729	1.096	ug/l #	92
39) Methylcyclohexane	7.23	83	305742	25.883	ug/l #	1
42) 1,2-Dichloroethane	6.20	62	3478	0.390	ug/l	82
44) Trichloroethene	7.22	130	21562211	2611.368	ug/l	87
49) 1,4-Dioxane	7.76	88	2595	12.737	ug/l #	63
51) 4-Methyl-2-Pentanone	8.71	43	5611	0.567	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	9602	1.318	ug/l	96
60) Dibromochloromethane	9.34	129	24608	2.739	ug/l #	11
64) Tetrachloroethene	9.34	164	25367	3.402	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	220132	24.065	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	220132	56.475	ug/l #	15

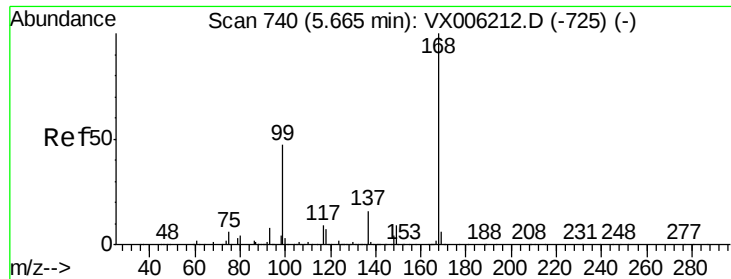
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Dec 18 00:40:29 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
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: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :

MSVOA_X

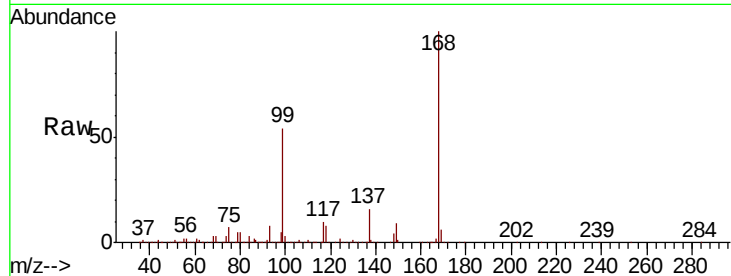
ClientSampleId :

Tot Ion:168 Resp: 684486

Ion Ratio Lower Upper

168 100

99 54.2 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): VX006575.D (-691) (-)

Ion 98.90 (98.60 to 99.60): VX006575.D (-691) (-)

5.67

250000

200000

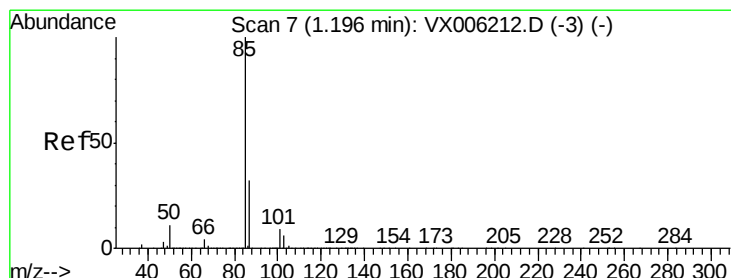
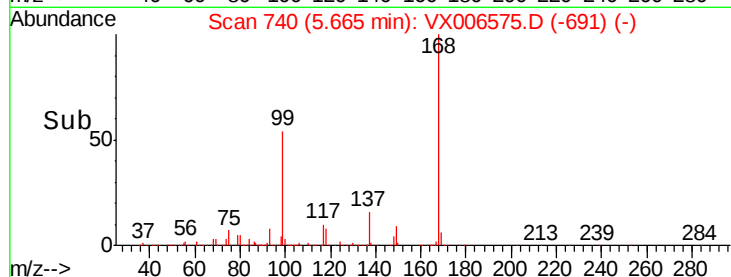
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.208 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006575.D

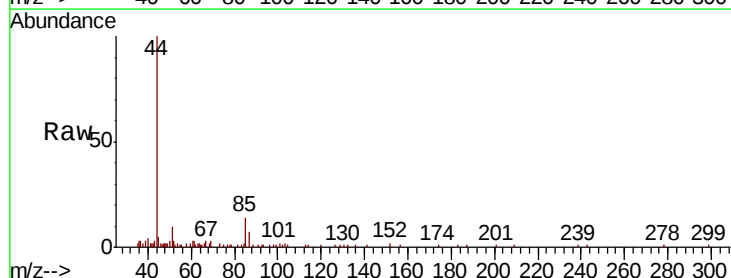
Acq: 17 Dec 2018 16:19

Tgt Ion: 85 Resp: 1393

Ion Ratio Lower Upper

85 100

87 39.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX006575.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VX006575.D (-1) (-)

1.20

1200

1000

800

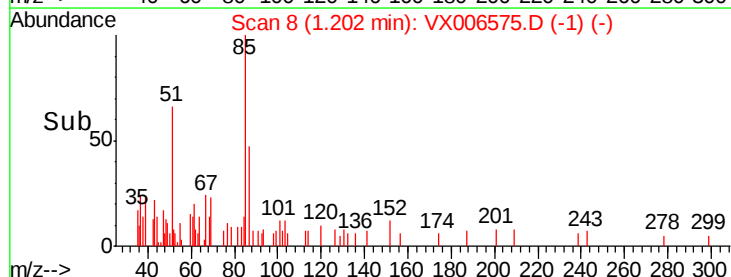
600

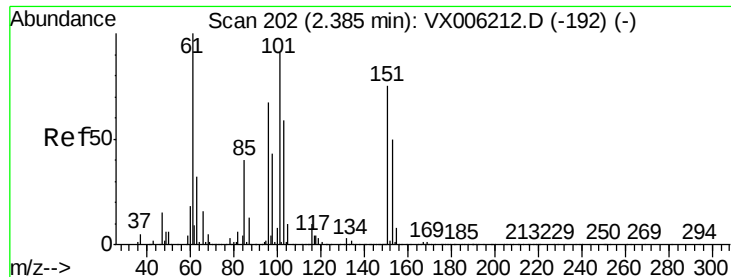
400

200

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.846 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :
MSVOA_X
ClientSampleId :

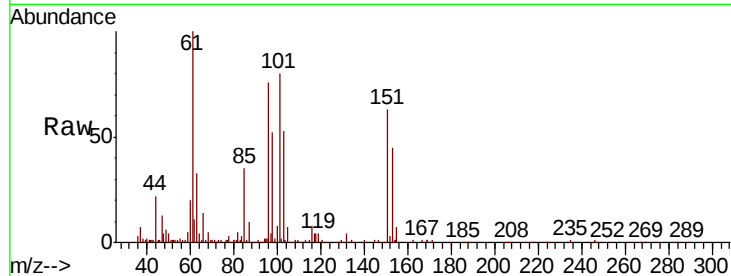
Tot Ion:101 Resp: 37823

Ion Ratio Lower Upper

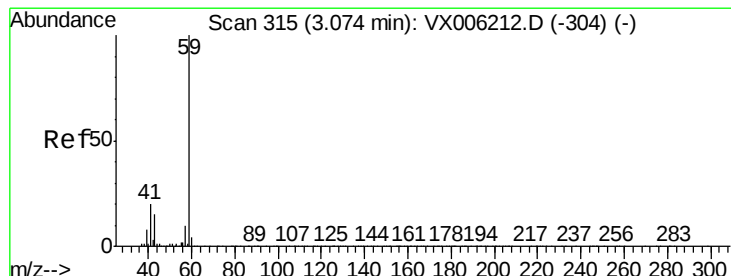
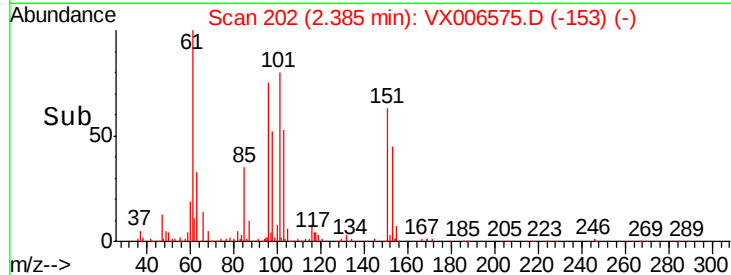
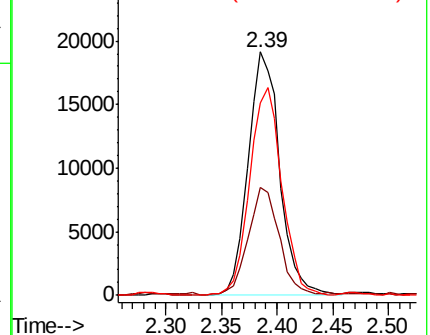
101 100

85 42.5 35.5 53.3

151 87.2 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: 0.655 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.04 min

Lab File: VX006575.D

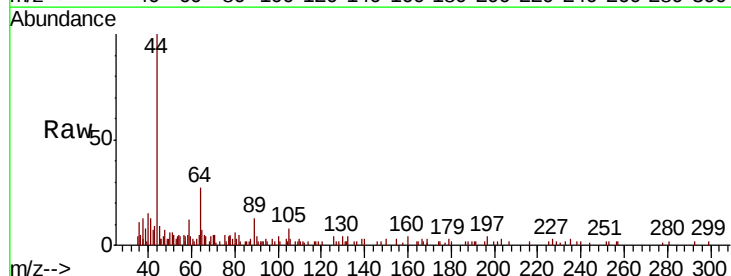
Acq: 17 Dec 2018 16:19

Tgt Ion: 59 Resp: 1252

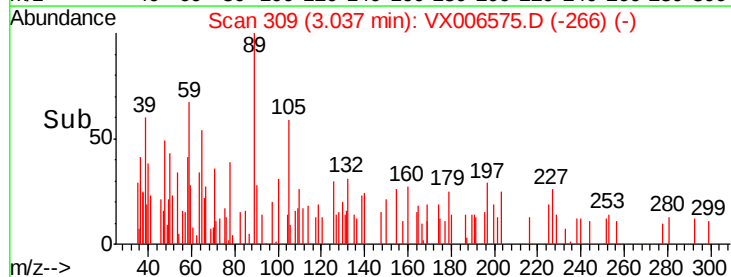
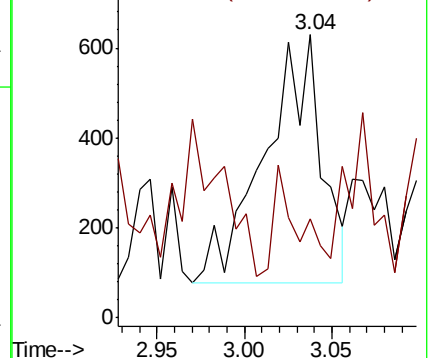
Ion Ratio Lower Upper

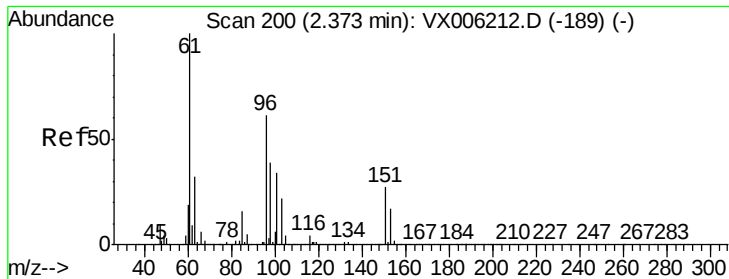
59 100

57 28.7 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: 5.573 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :

MSVOA_X

ClientSampleId :

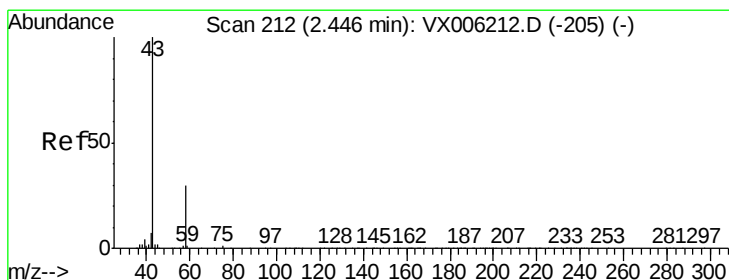
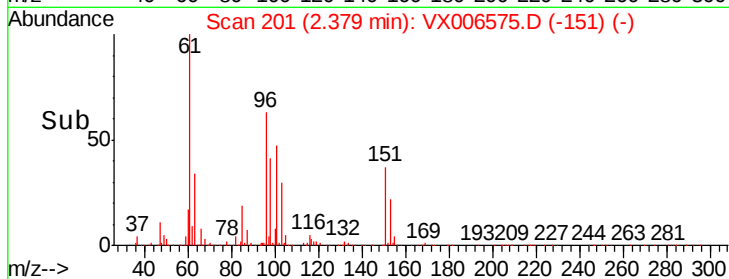
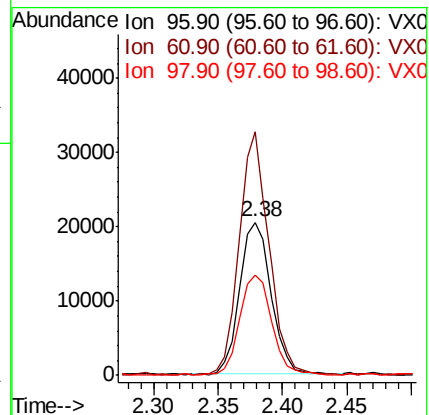
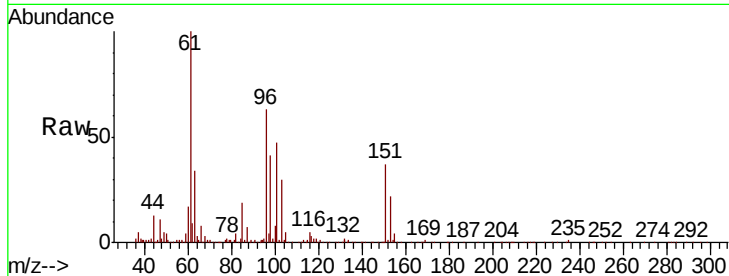
Tot Ion: 96 Resp: 34520

Ion Ratio Lower Upper

96 100

61 159.6 131.7 197.5

98 65.1 51.8 77.6



#16

Acetone

Concen: 0.358 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006575.D

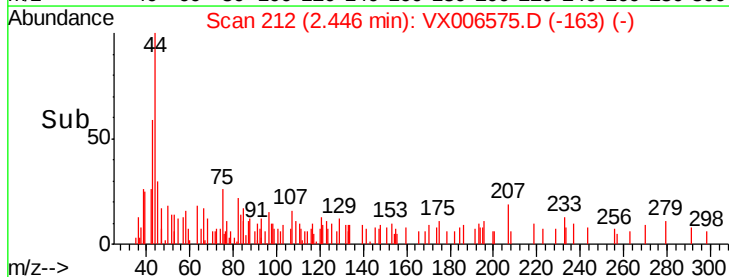
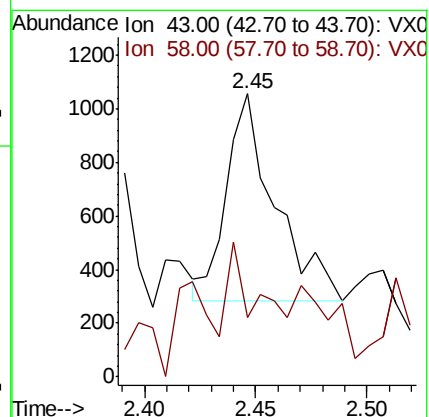
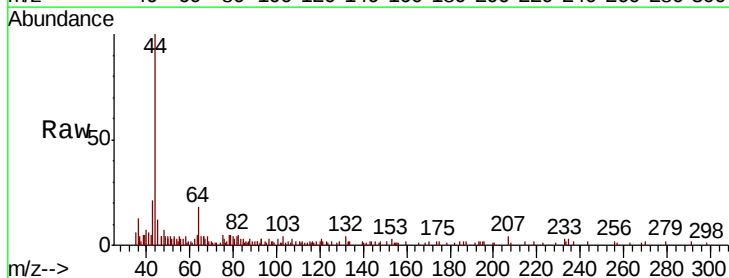
Acq: 17 Dec 2018 16:19

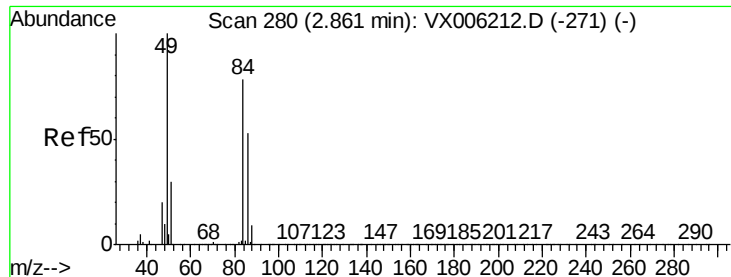
Tgt Ion: 43 Resp: 1174

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#





#20

Methylene Chloride

Concen: 0.204 ug/l

RT: 2.87 min Scan# 281

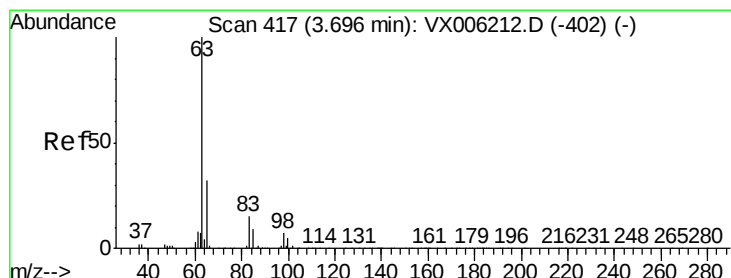
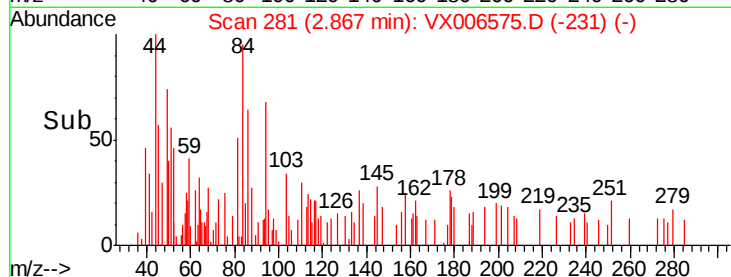
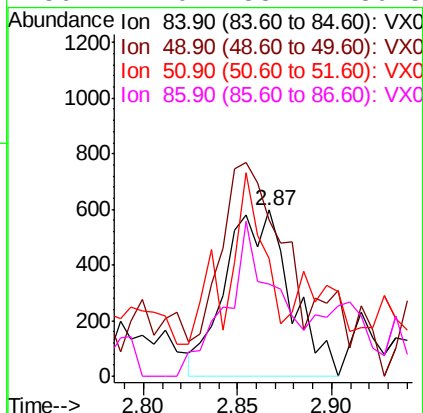
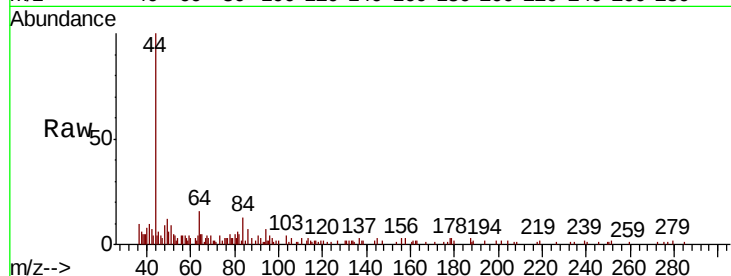
Delta R.T. 0.01 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	1424
Ion	Ratio	Lower	Upper
84	100		
49	73.1	102.2	153.4#
51	51.5	31.1	46.7#
86	41.0	53.7	80.5#



#24

1,1-Dichloroethane

Concen: 3.553 ug/l

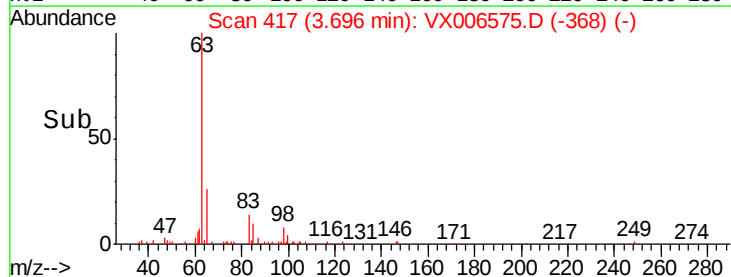
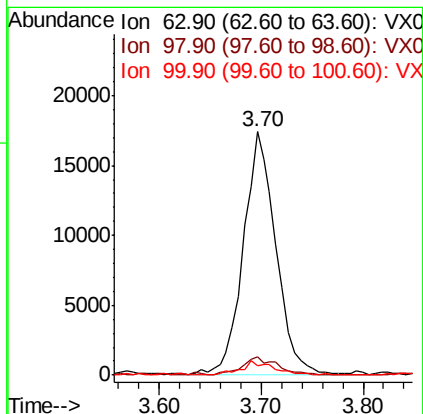
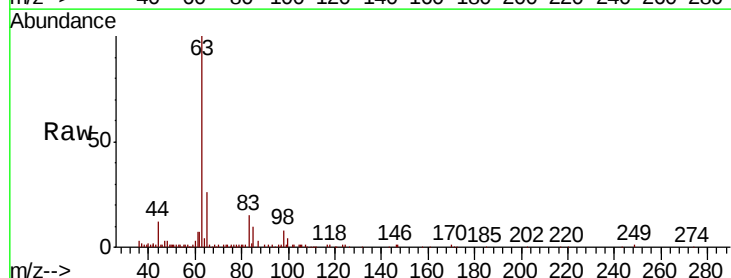
RT: 3.70 min Scan# 417

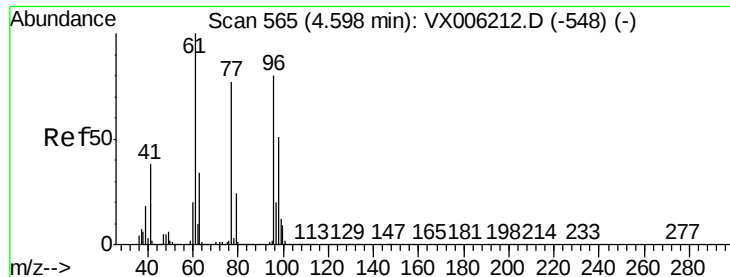
Delta R.T. -0.00 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Tgt Ion:	63	Resp:	38813
Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.4
100	3.6	2.5	7.4



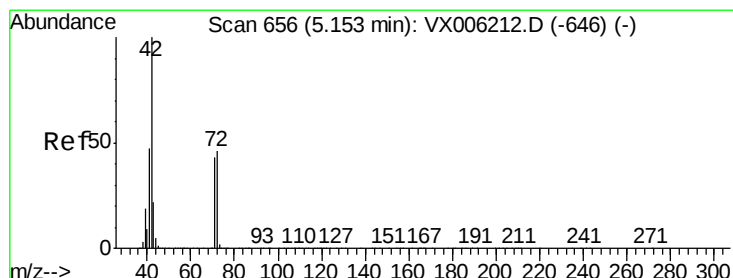
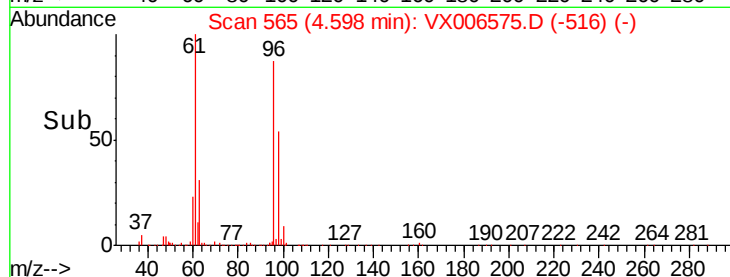
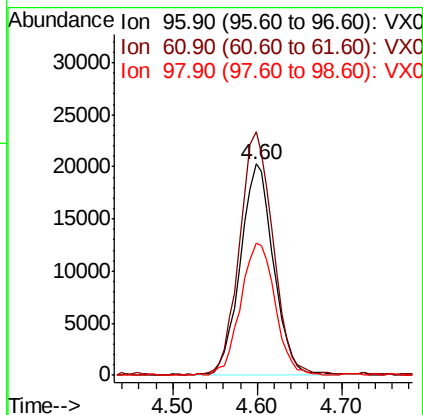
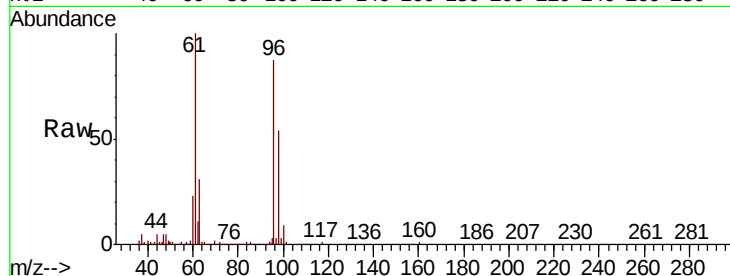


#27

cis-1,2-Dichloroethene
 Concen: 7.254 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX006575.D
 Acq: 17 Dec 2018 16:19

Instrument :
 MSVOA_X
 ClientSampleId :

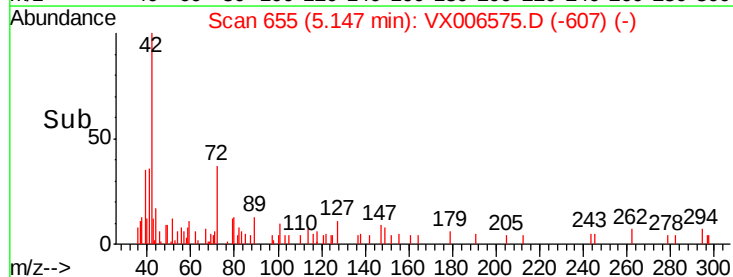
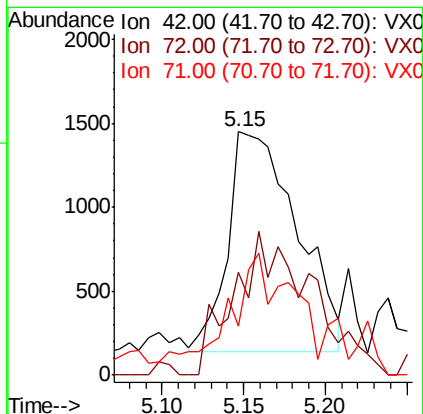
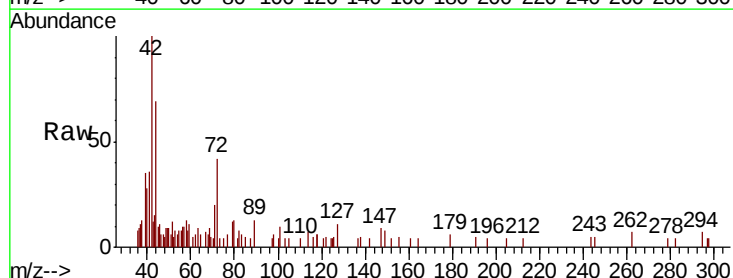
Tot Ion	Ratio	Lower	Upper
96	100		
61	116.2	0.0	265.0
98	65.7	0.0	130.2

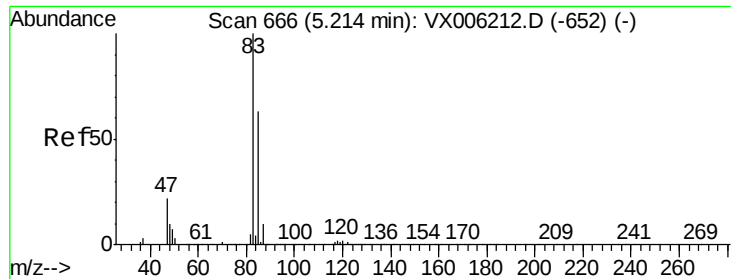


#29

Tetrahydrofuran
 Concen: 1.192 ug/l
 RT: 5.15 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: VX006575.D
 Acq: 17 Dec 2018 16:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	72.7	37.8	56.8#
71	28.8	35.2	52.8#

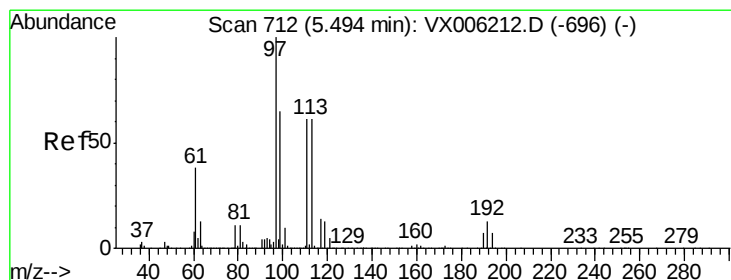
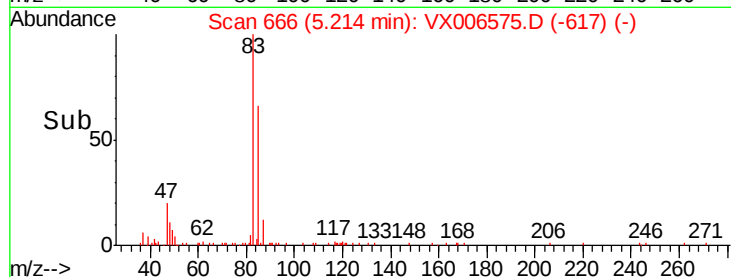
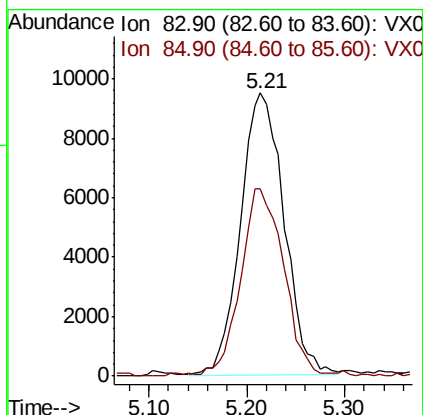
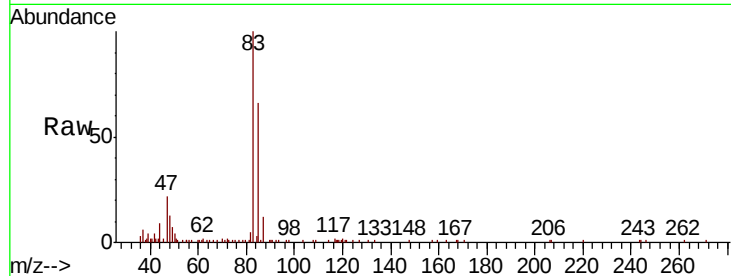




#30
Chloroform
Concen: 2.543 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

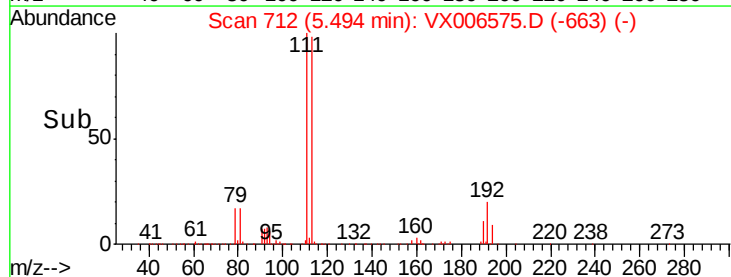
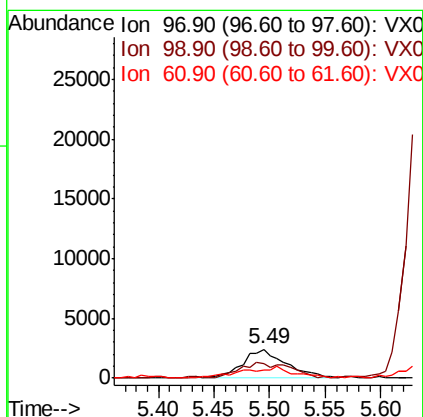
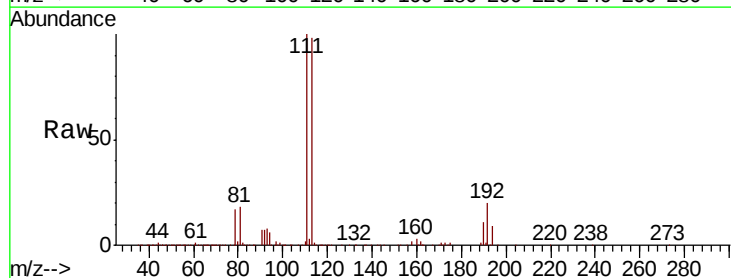
Instrument :
MSVOA_X
ClientSampled :

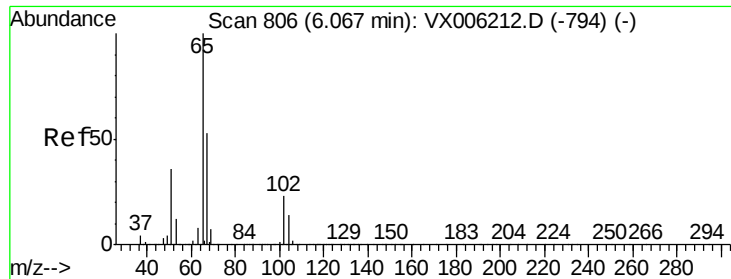
Tot Ion: 83 Resp: 29189
Ion Ratio Lower Upper
83 100
85 65.9 50.3 75.5



#32
1,1,1-Trichloroethane
Concen: 0.608 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Tgt Ion: 97 Resp: 6639
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 19.8 30.6 46.0#





#33

1,2-Dichloroethane-d4

Concen: 54.255 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :

MSVOA_X

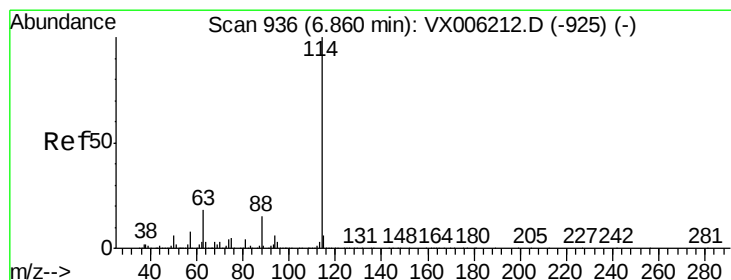
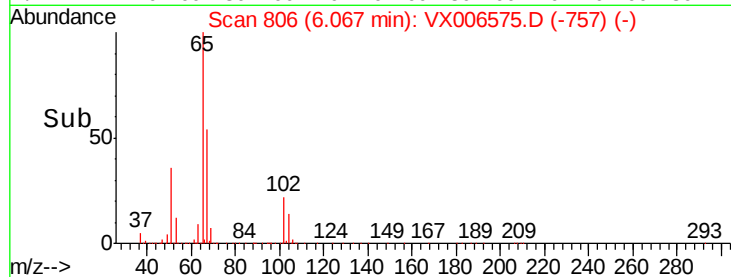
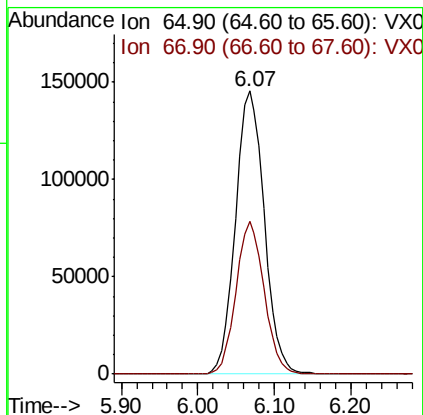
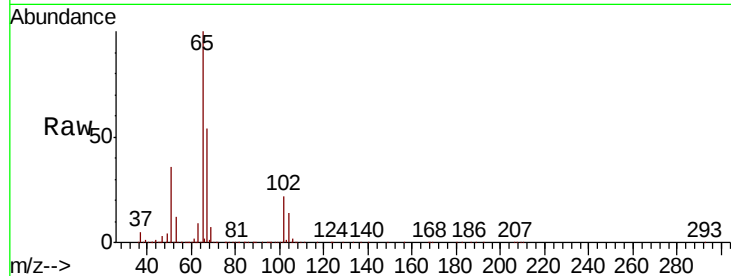
ClientSampleId :

Tot Ion: 65 Resp: 379110

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

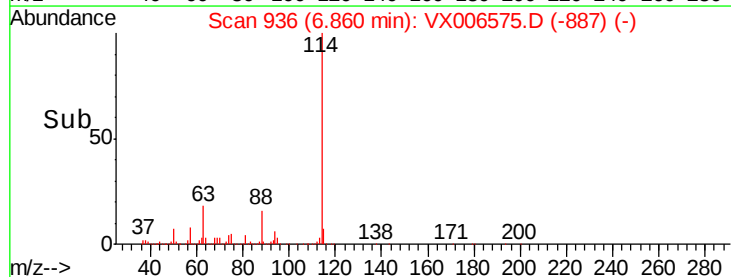
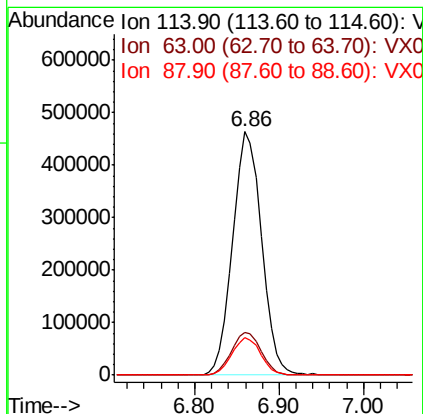
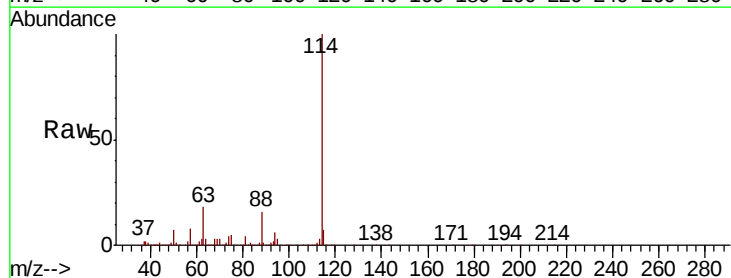
Tgt Ion: 114 Resp: 1080661

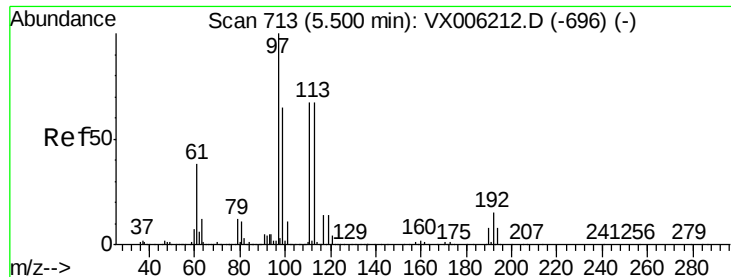
Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.6

88 15.6 0.0 29.0

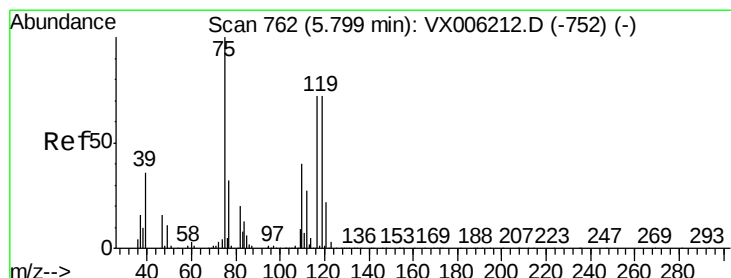
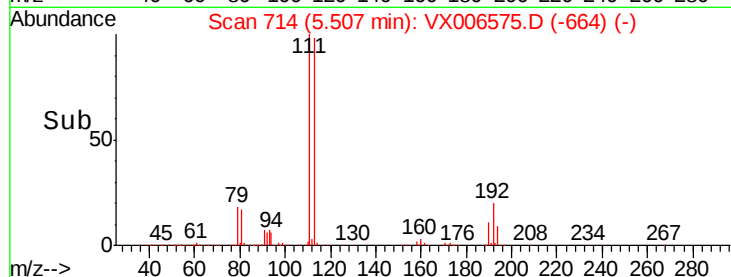
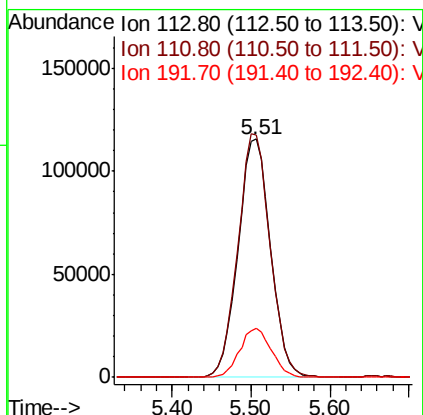
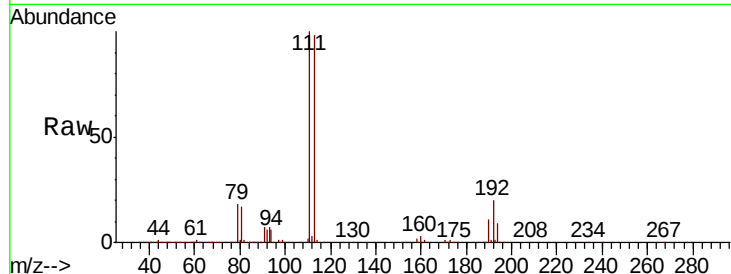




#35
 Dibromofluoromethane
 Concen: 47.273 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX006575.D
 Acq: 17 Dec 2018 16:19

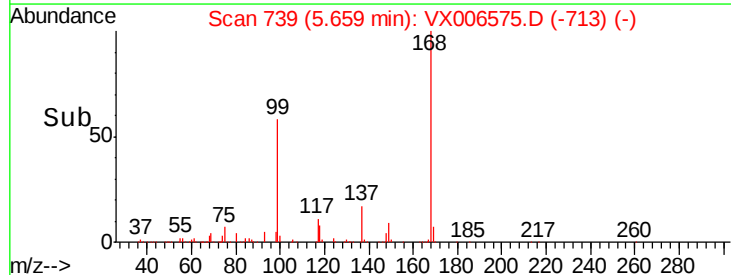
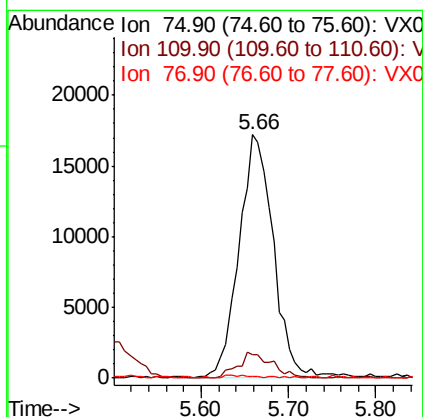
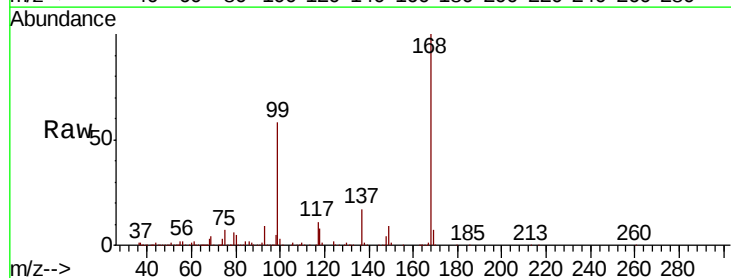
Instrument :
 MSVOA_X
 ClientSampleId :

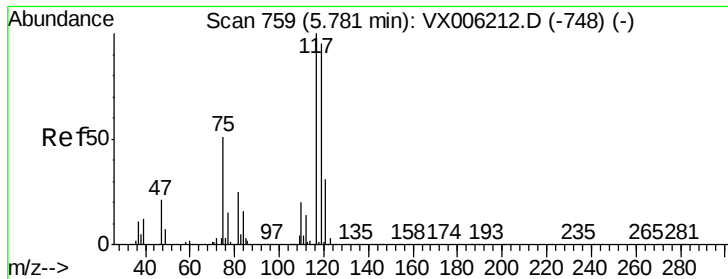
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.1	121.7
192	20.1	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 5.105 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006575.D
 Acq: 17 Dec 2018 16:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.4	61.3#
77	0.0	24.9	37.3#

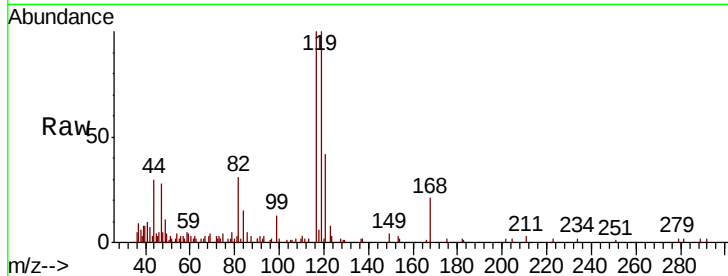




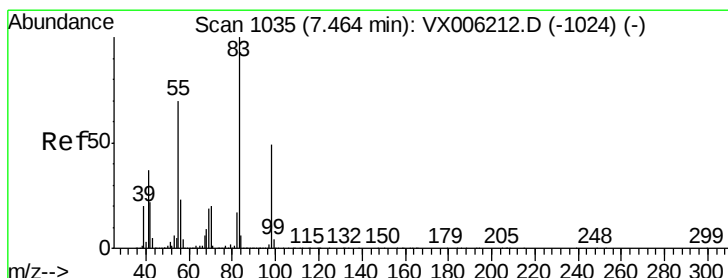
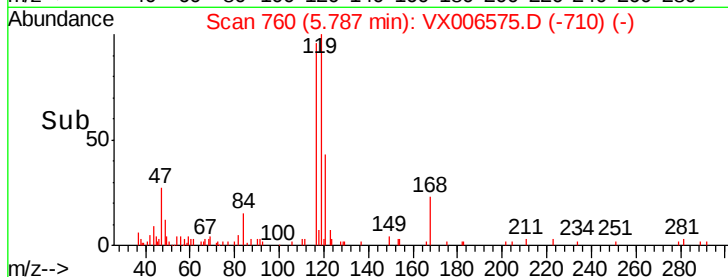
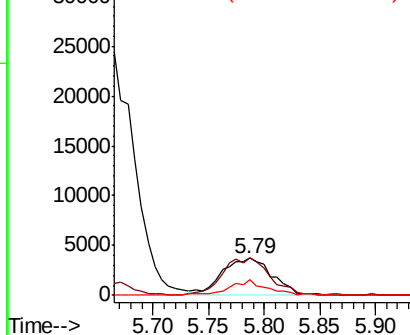
#38
Carbon Tetrachloride
Concen: 1.096 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 11729
Ion Ratio Lower Upper
117 100
119 100.3 75.8 113.8
121 39.0 24.6 37.0#

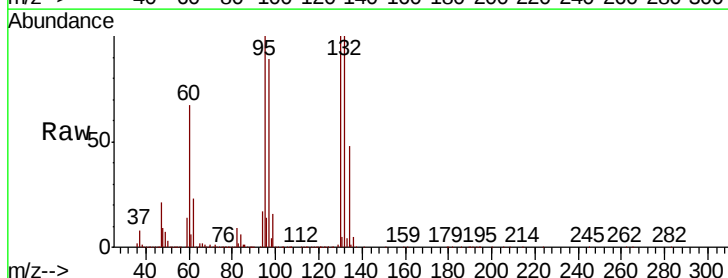


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

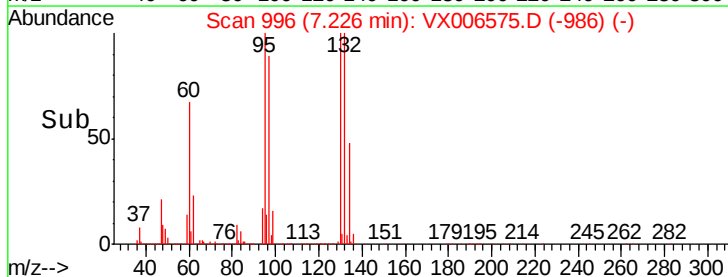
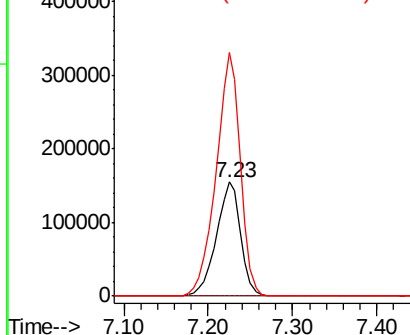


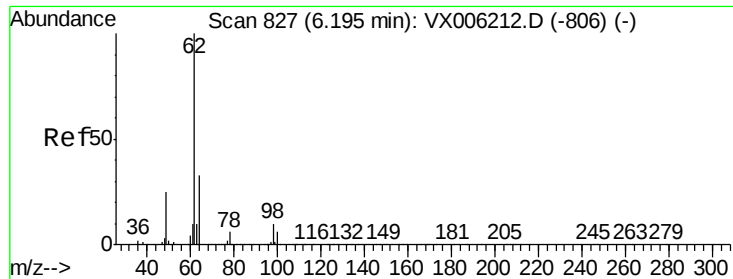
#39
Methylcyclohexane
Concen: 25.883 ug/l
RT: 7.23 min Scan# 996
Delta R.T. -0.24 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Tgt Ion: 83 Resp: 305742
Ion Ratio Lower Upper
83 100
55 0.1 56.4 84.6#
98 214.1 39.0 58.6#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.390 ug/l

RT: 6.20 min Scan# 827

Delta R.T. -0.00 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :

MSVOA_X

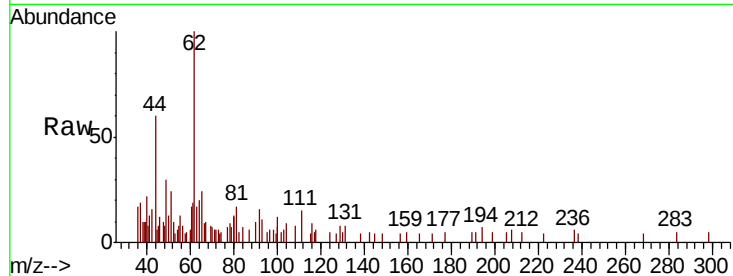
ClientSampleId :

Tot Ion: 62 Resp: 3478

Ion Ratio Lower Upper

62 100

98 3.4 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.20

1500

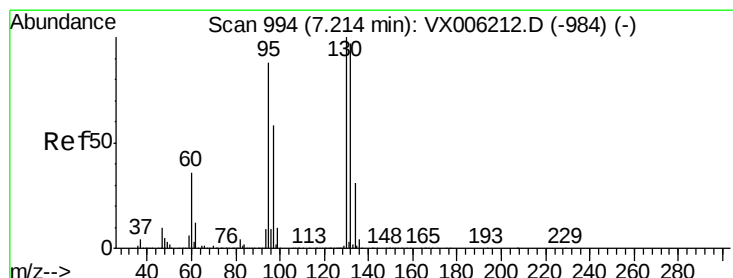
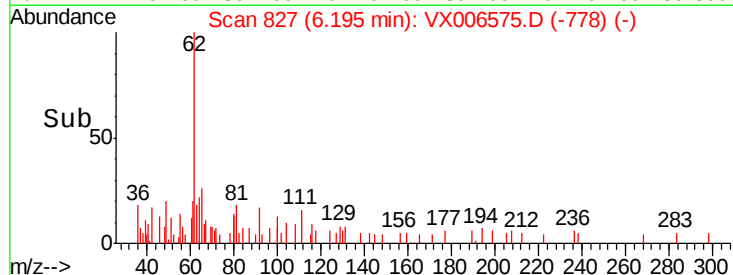
1000

500

0

6.10 6.15 6.20 6.25 6.30

Time-->



#44

Trichloroethene

Concen: 2611.368 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006575.D

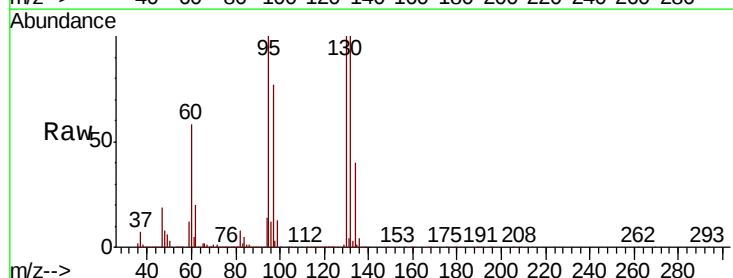
Acq: 17 Dec 2018 16:19

Tgt Ion:130 Resp:21562211

Ion Ratio Lower Upper

130 100

95 100.0 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

1e+07

8000000

6000000

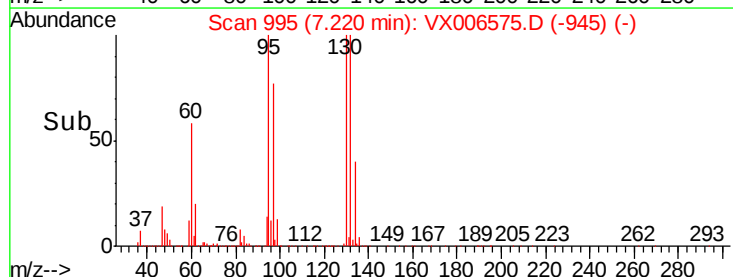
4000000

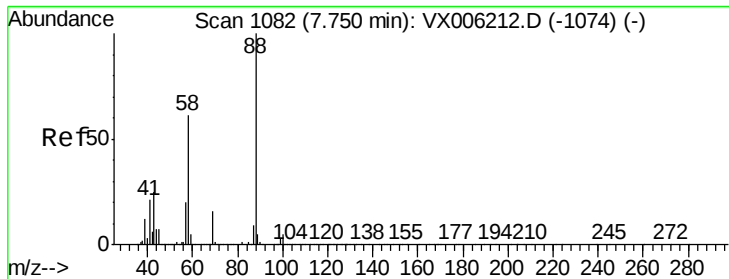
2000000

0

7.00 7.20 7.40

Time-->

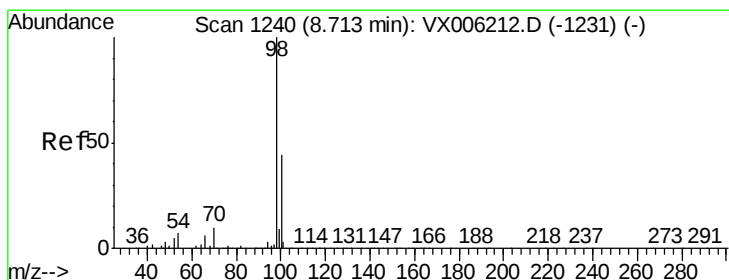
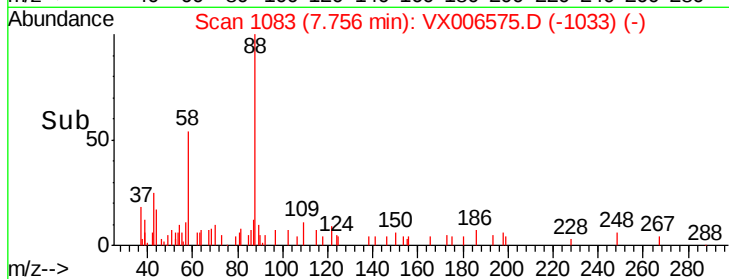
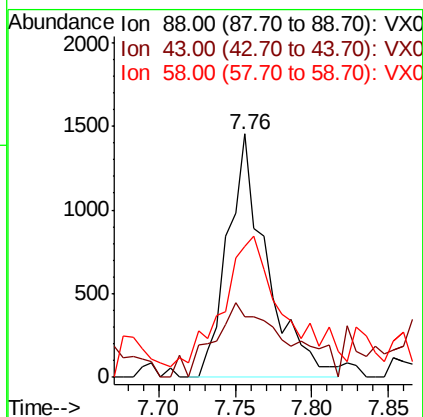
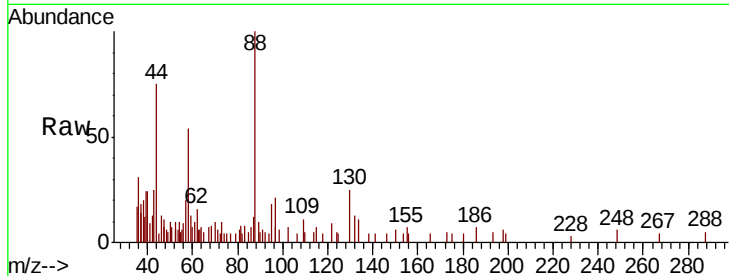




#49
1,4-Dioxane
Concen: 12.737 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

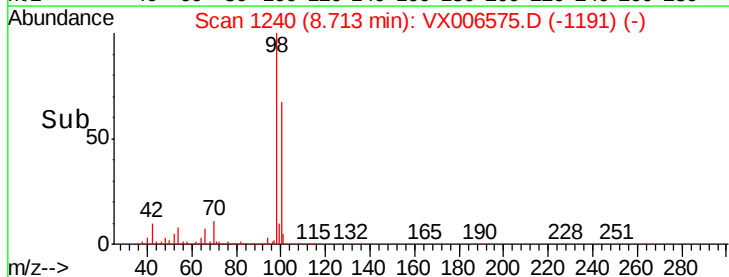
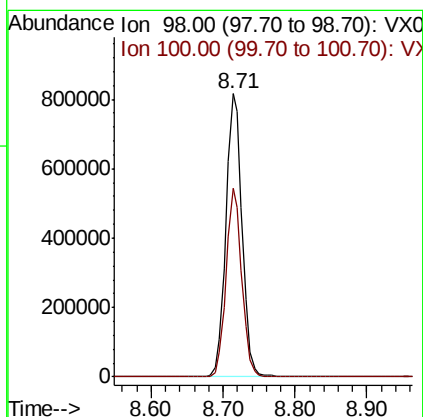
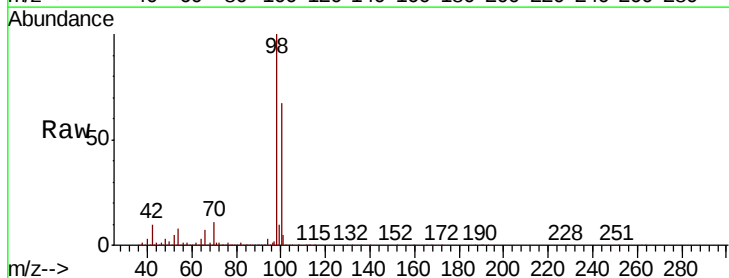
Instrument :
MSVOA_X
ClientSampleId :

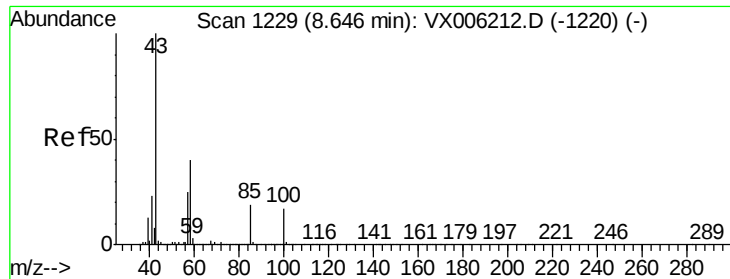
Tot Ion	Ratio	Lower	Upper
88	100		
43	57.0	23.2	34.8#
58	88.2	51.4	77.0#



#50
Toluene-d8
Concen: 50.333 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 0.567 ug/l

RT: 8.71 min Scan# 1239

Delta R.T. 0.06 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :

MSVOA_X

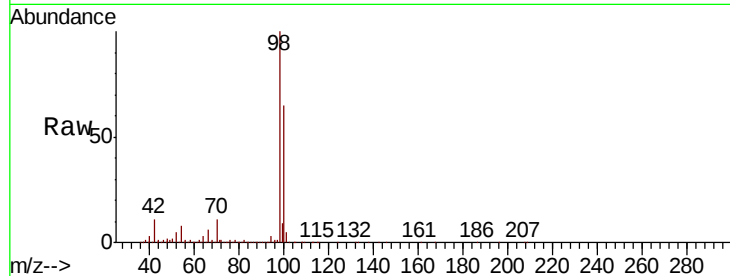
ClientSampleId :

Tot Ion: 43 Resp: 5611

Ion Ratio Lower Upper

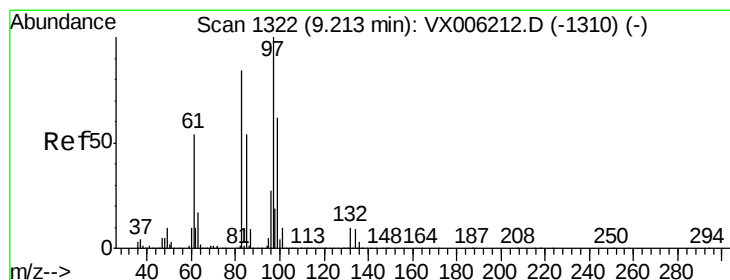
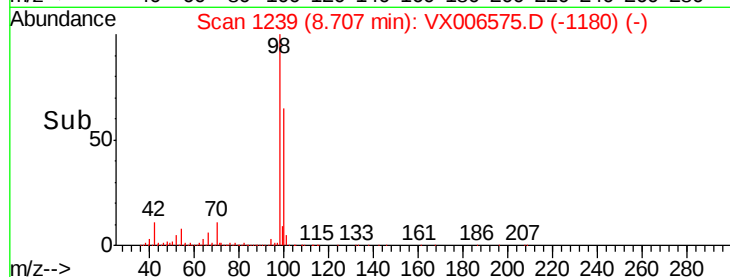
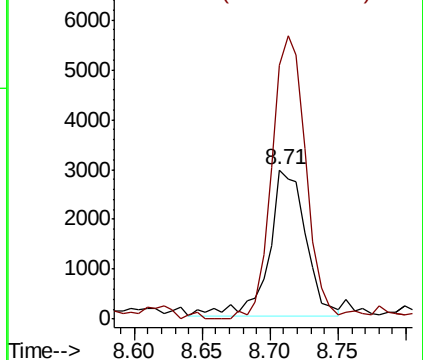
43 100

58 176.4 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#55

1,1,2-Trichloroethane

Concen: 1.318 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Tgt Ion: 97 Resp: 9602

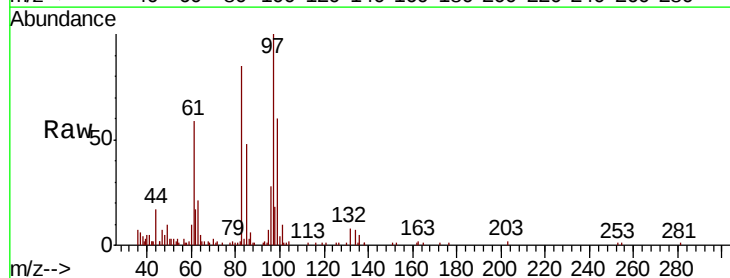
Ion Ratio Lower Upper

97 100

83 83.9 67.1 100.7

85 46.8 43.2 64.8

99 59.2 49.8 74.6

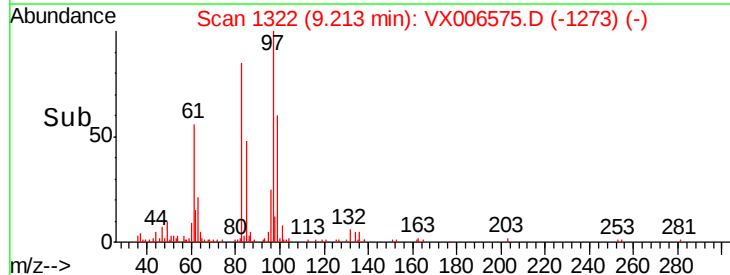
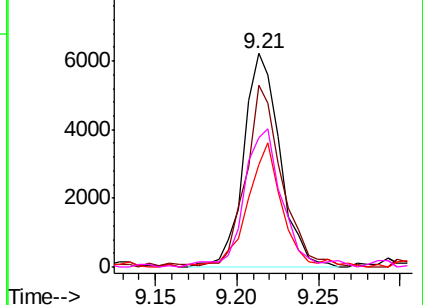


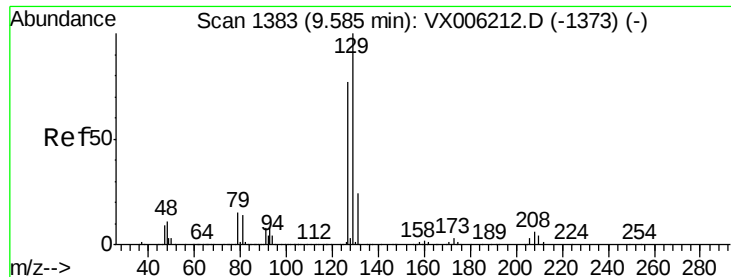
Abundance Ion 96.90 (96.60 to 97.60): VX0

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





#60

Dibromochloromethane

Concen: 2.739 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

Instrument :

MSVOA_X

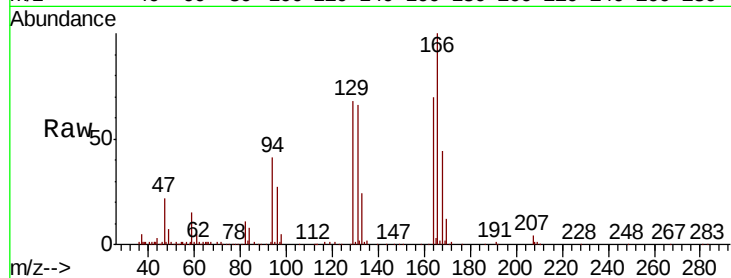
ClientSampled :

Tot Ion:129 Resp: 24608

Ion Ratio Lower Upper

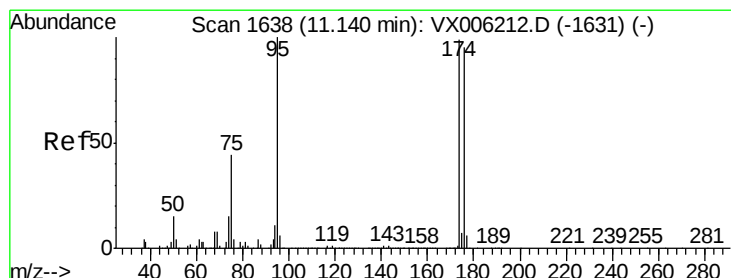
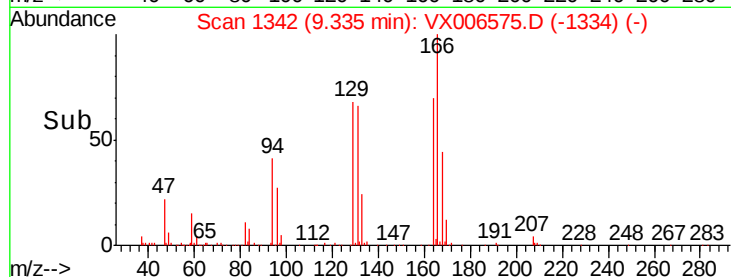
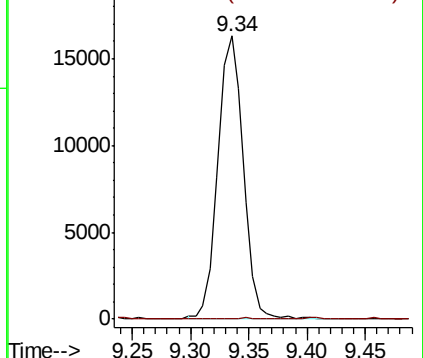
129 100

127 0.2 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.445 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006575.D

Acq: 17 Dec 2018 16:19

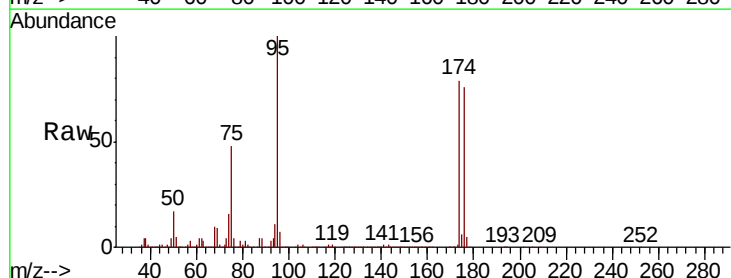
Tgt Ion: 95 Resp: 474199

Ion Ratio Lower Upper

95 100

174 84.2 0.0 187.0

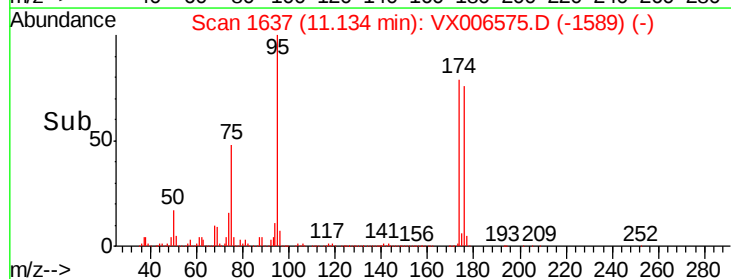
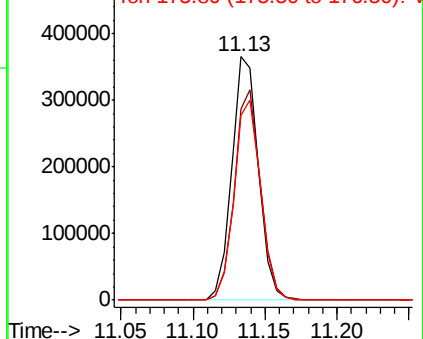
176 81.6 0.0 181.8

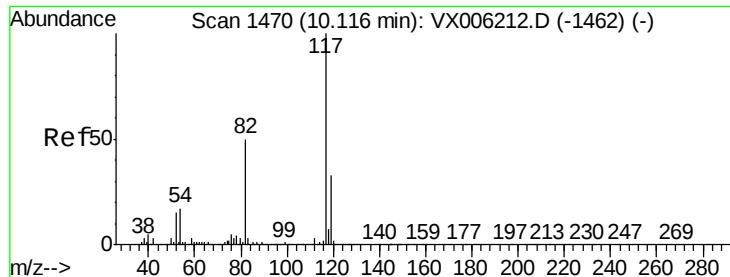


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

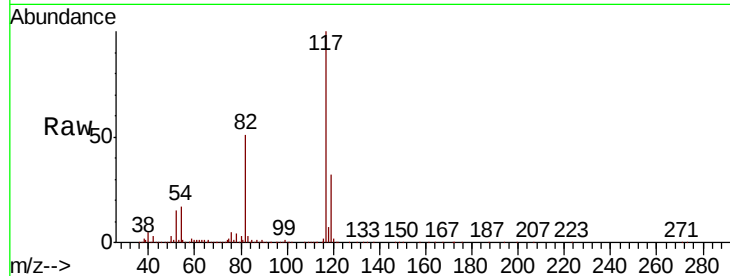




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.9	39.6	59.4
119	32.3	26.3	39.5

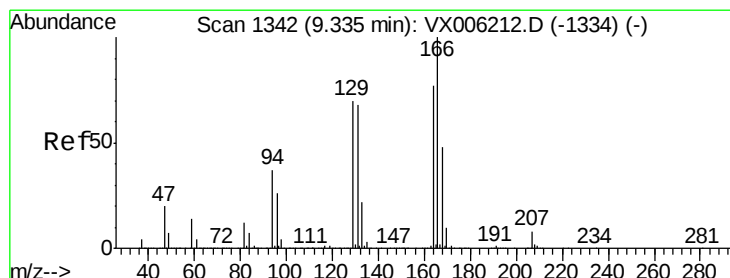
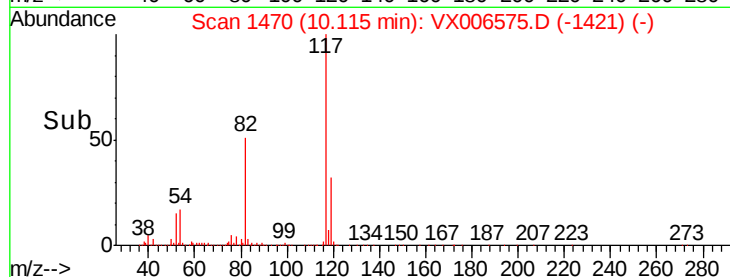
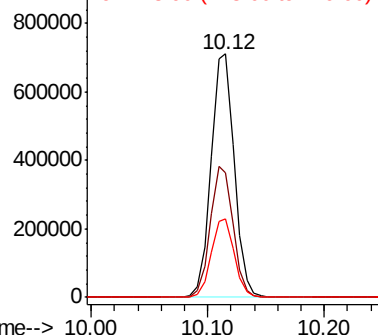


Abundance

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: 3.402 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	143.2	104.2	156.2
129	97.8	72.6	108.8
131	94.6	70.3	105.5

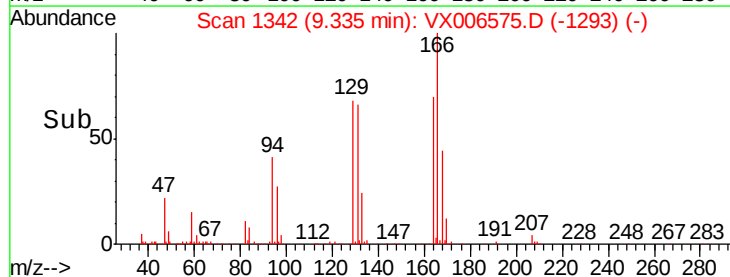
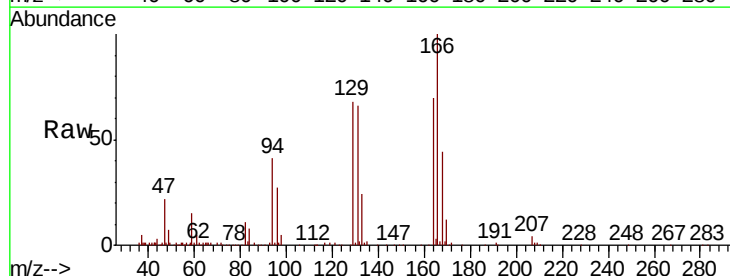
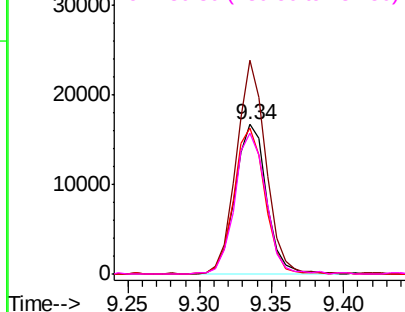
Abundance

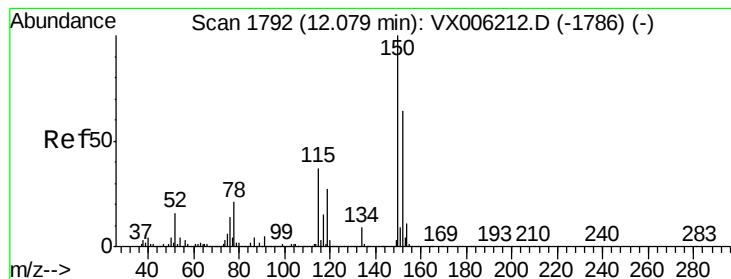
Ion 163.80 (163.50 to 164.50): V

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



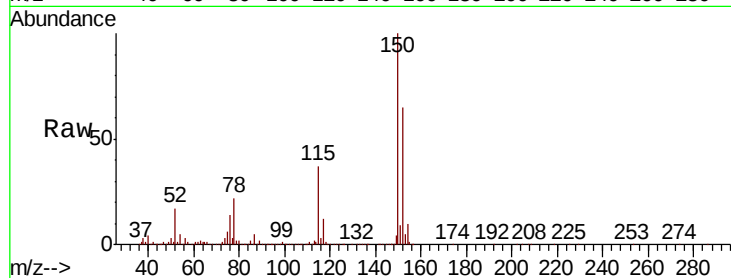


#72

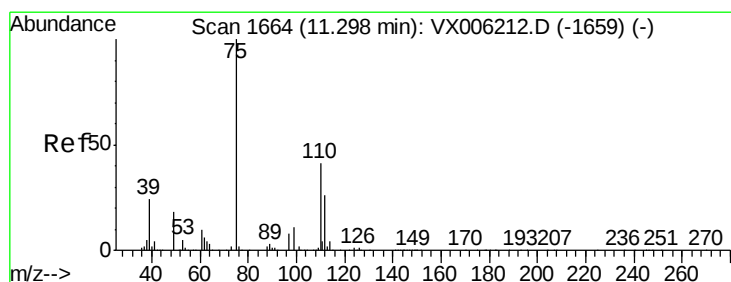
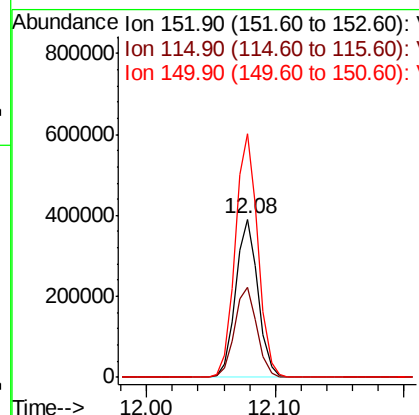
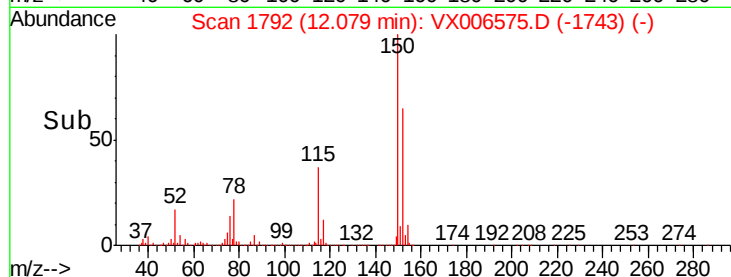
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.3	39.0	116.9
150	156.3	0.0	345.8



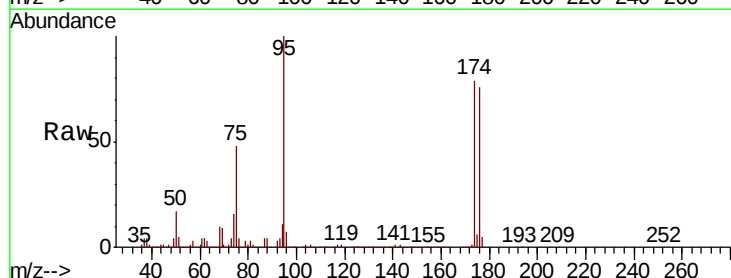
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



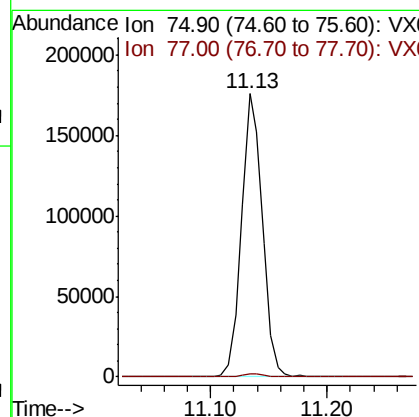
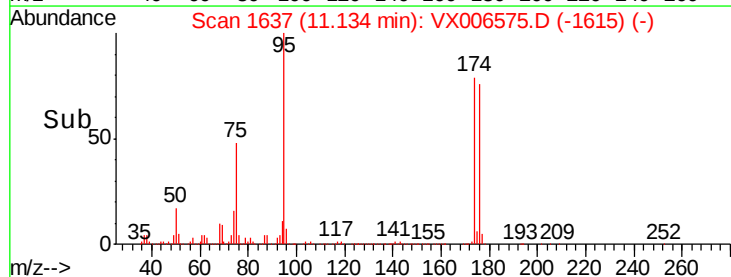
#76

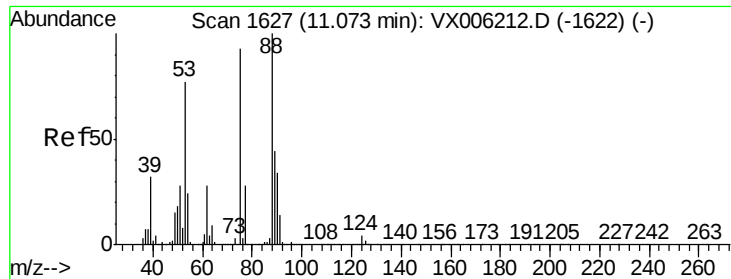
1,2,3-Trichloropropane
Concen: 24.065 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	19.9	59.7



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: 56.475 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006575.D
Acq: 17 Dec 2018 16:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 220132
Ion Ratio Lower Upper
75 100
53 0.1 64.4 96.6#
89 0.1 44.2 66.4#

