

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006716.D
 Acq On : 21 Dec 2018 11:56
 Operator : JC/MD
 Sample : J6514-05RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0500

Quant Time: Dec 22 04:01:41 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	669055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1032934	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	928640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438178	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	349993	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
35) Dibromofluoromethane	5.50	113	312259	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
50) Toluene-d8	8.71	98	1208532	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	11.14	95	430550	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

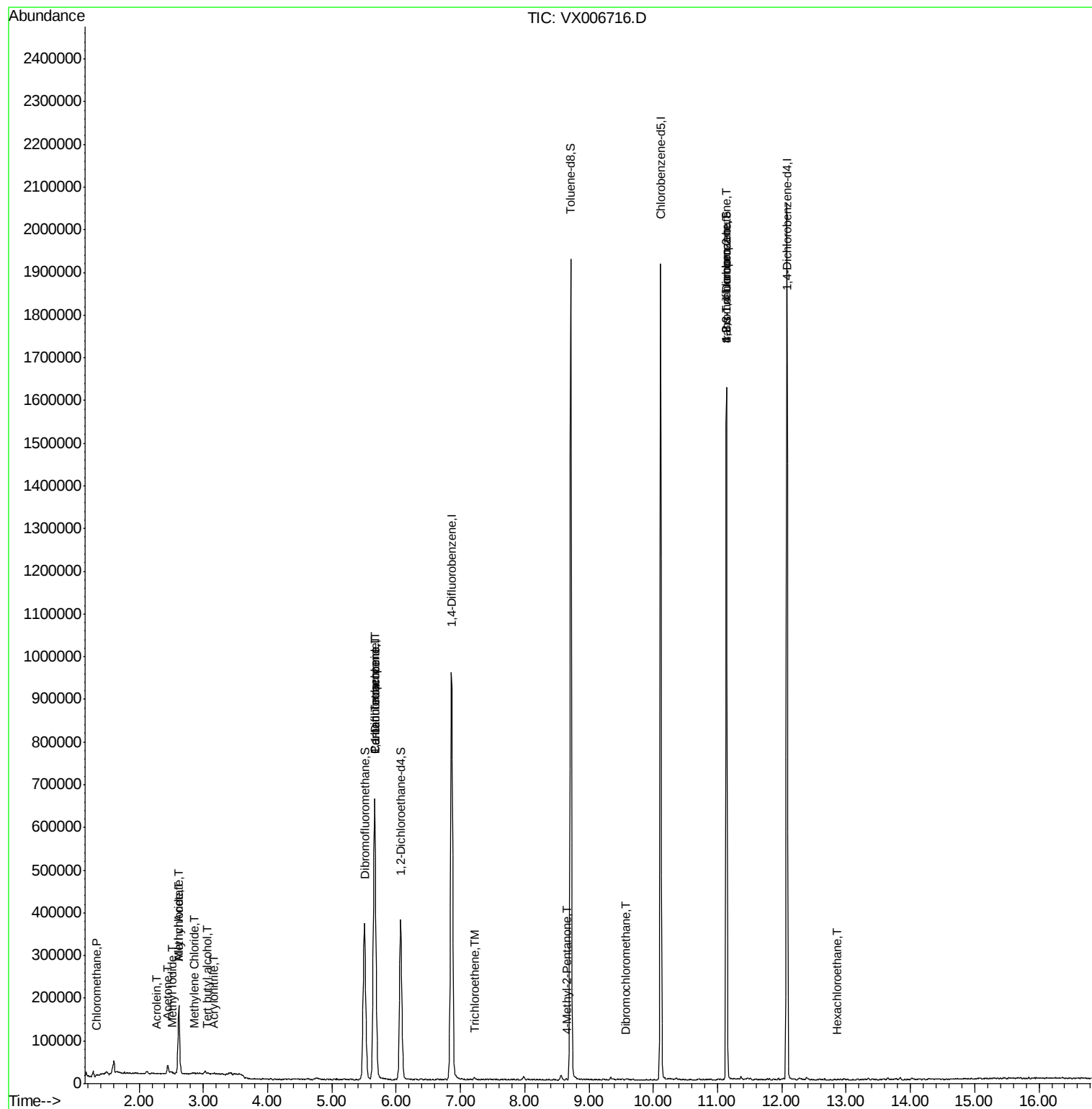
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	1698	0.258	ug/l #	59
5) Bromomethane	1.65	94	2009	Below Cal		90
10) Methyl Iodide	2.52	142	3047	0.338	ug/l	98
11) Tert butyl alcohol	3.07	59	2300	1.429	ug/l #	90
13) Acrolein	2.28	56	336	0.310	ug/l #	13
14) Allyl chloride	2.62	41	15185	1.509	ug/l #	64
15) Acrylonitrile	3.16	53	1454	0.407	ug/l #	35
16) Acetone	2.45	43	23418	7.069	ug/l	96
18) Methyl Acetate	2.62	43	44756	4.594	ug/l #	52
20) Methylene Chloride	2.86	84	1814	0.265	ug/l #	72
28) Bromochloromethane	5.04	49	161	Below Cal	#	51
36) 1,1-Dichloropropene	5.67	75	44845	5.242	ug/l #	49
38) Carbon Tetrachloride	5.67	117	62422	7.508	ug/l #	15
44) Trichloroethene	7.22	130	1678	0.213	ug/l	72
49) 1,4-Dioxane	7.77	88	384	Below Cal	#	34
51) 4-Methyl-2-Pentanone	8.65	43	2119	0.246	ug/l	94
60) Dibromochloromethane	9.57	129	88	2.336	ug/l	69
76) 1,2,3-Trichloropropane	11.13	75	201265	24.716	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201265	73.082	ug/l #	10
90) Hexachloroethane	12.86	117	95	3.315	ug/l	80

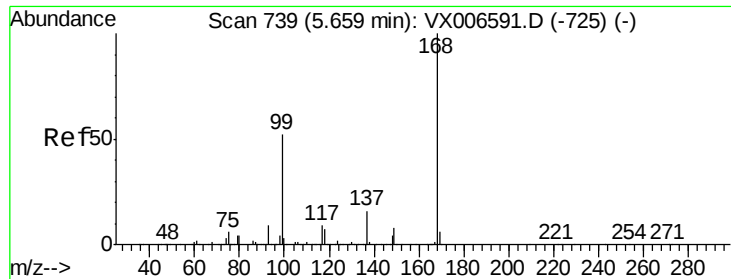
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX122118\
Data File : VX006716.D
Acq On : 21 Dec 2018 11:56
Operator : JC/MD
Sample : J6514-05RE
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
S49-0500

Quant Time: Dec 22 04:01:41 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: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

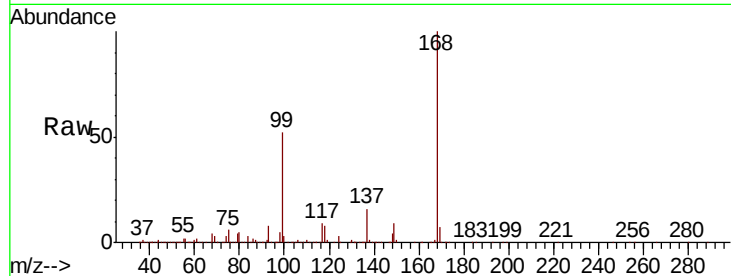
S49-0500

Tot Ion:168 Resp: 669055

Ion Ratio Lower Upper

168 100

99 51.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

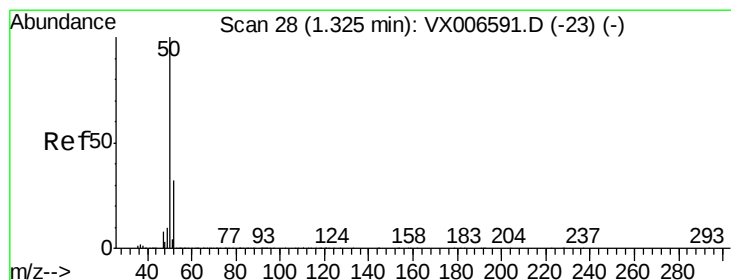
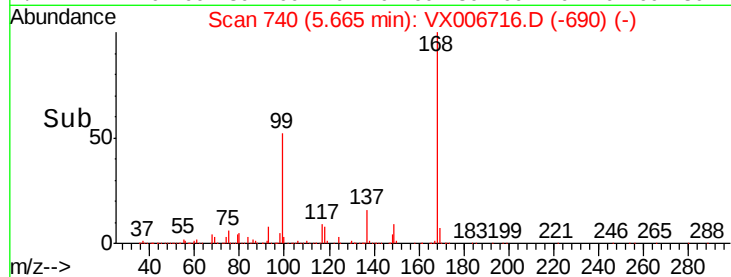
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.258 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX006716.D

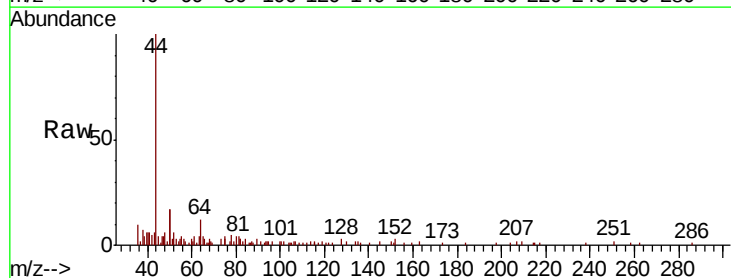
Acq: 21 Dec 2018 11:56

Tgt Ion: 50 Resp: 1698

Ion Ratio Lower Upper

50 100

52 8.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

2000

1500

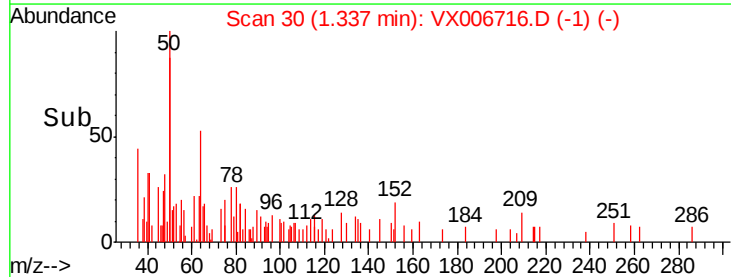
1000

500

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampled :

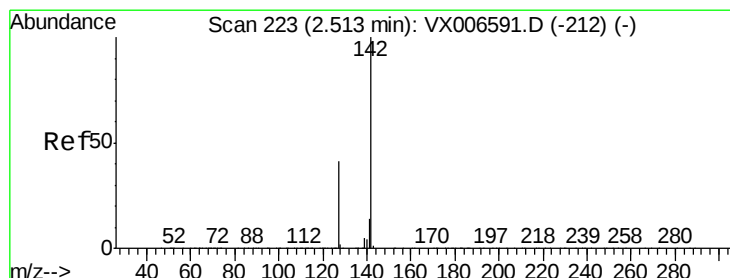
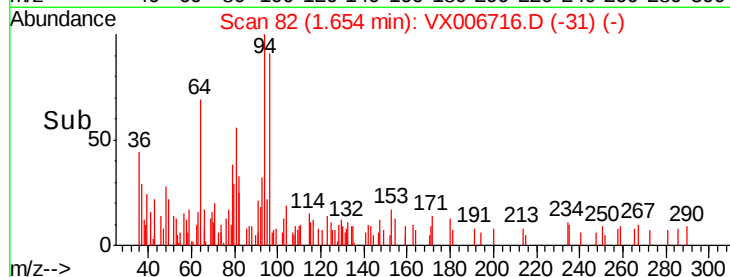
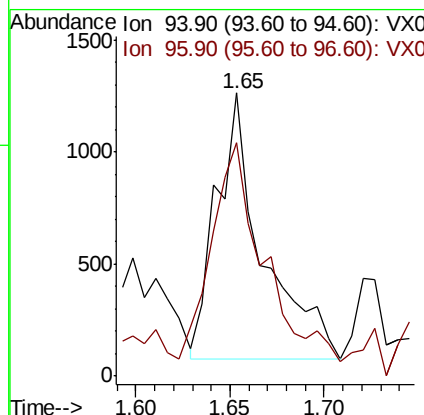
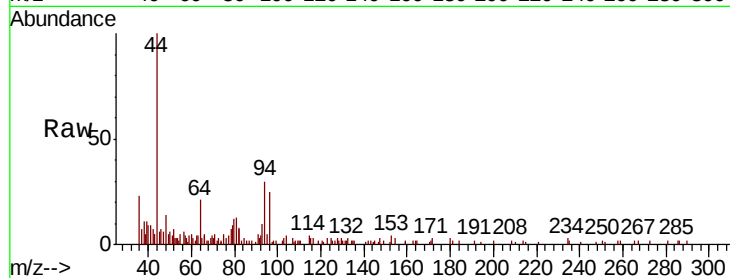
S49-0500

Tot Ion: 94 Resp: 2009

Ion Ratio Lower Upper

94 100

96 82.6 73.4 110.2



#10

Methyl Iodide

Concen: 0.338 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

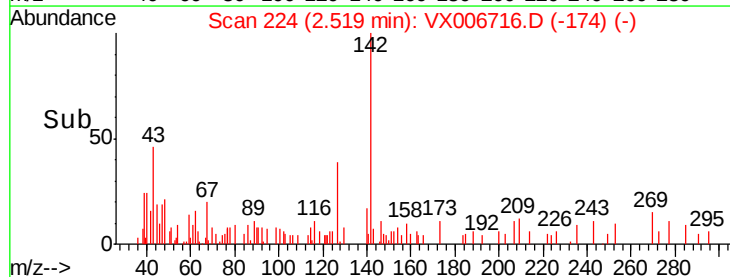
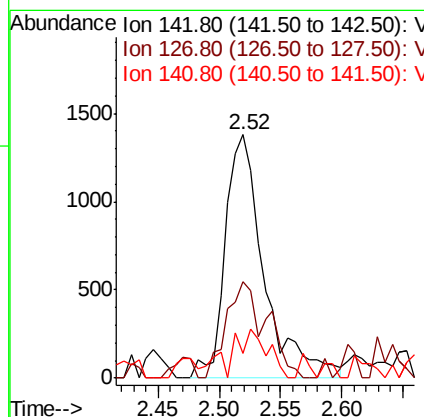
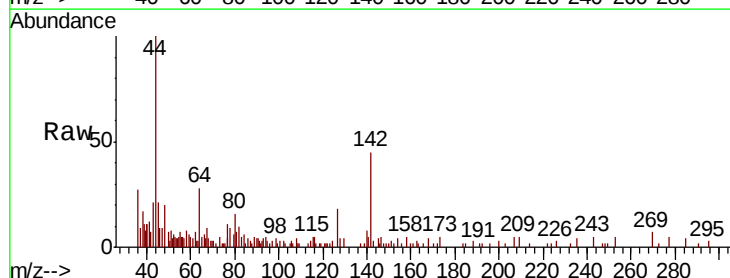
Tgt Ion: 142 Resp: 3047

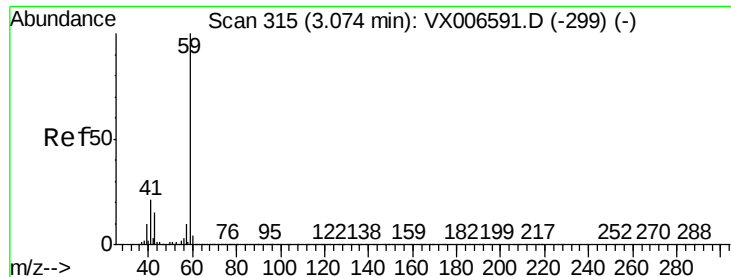
Ion Ratio Lower Upper

142 100

127 41.1 33.9 50.9

141 15.4 11.4 17.0

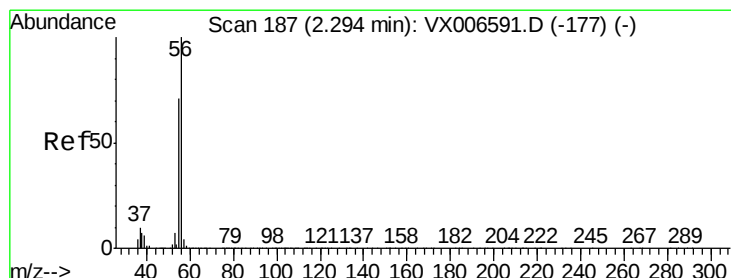
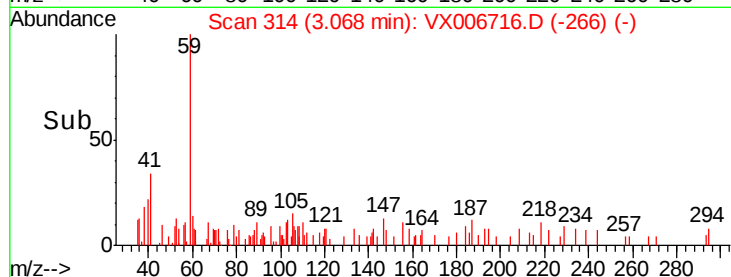
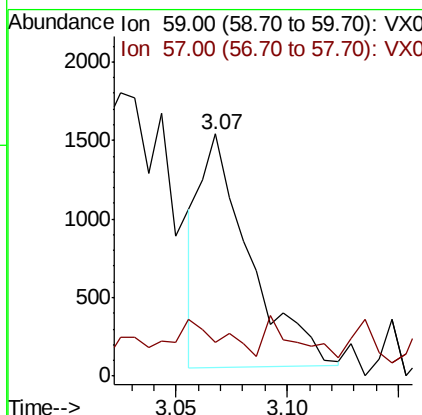
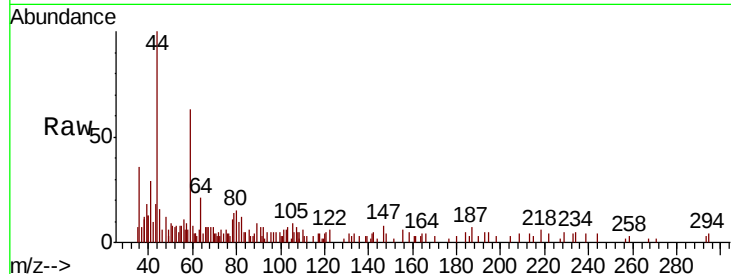




#11
Tert butyl alcohol
Concen: 1.429 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX006716.D
Acq: 21 Dec 2018 11:56

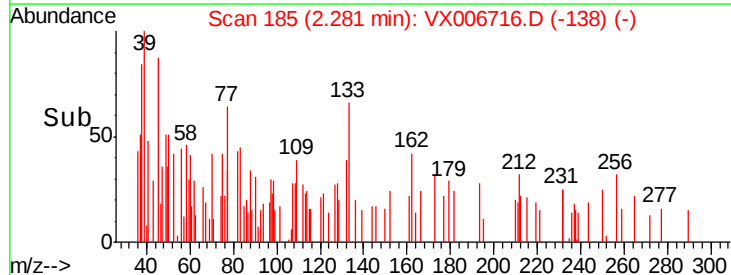
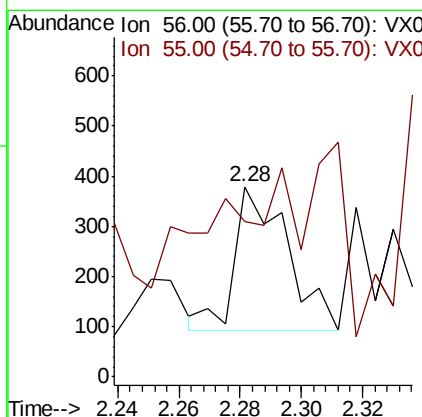
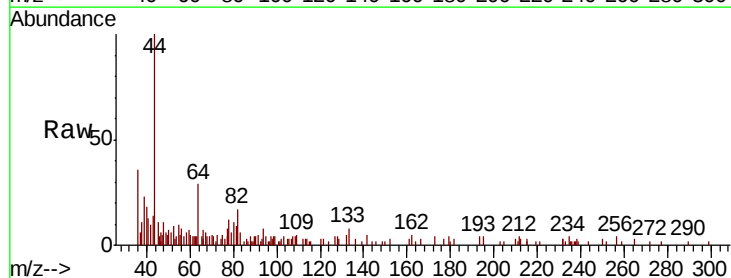
Instrument :
MSVOA_X
ClientSampleId :
S49-0500

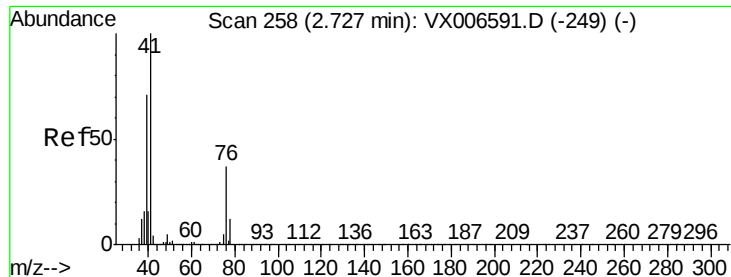
Tot Ion: 59 Resp: 2300
Ion Ratio Lower Upper
59 100
57 14.5 8.5 12.7#



#13
Acrolein
Concen: 0.310 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX006716.D
Acq: 21 Dec 2018 11:56

Tgt Ion: 56 Resp: 336
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#





#14

Allvl chloride

Concen: 1.509 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampled :

S49-0500

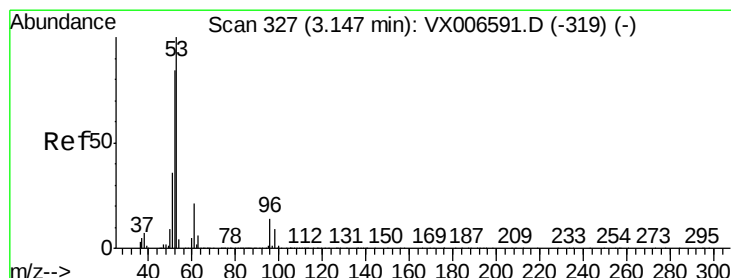
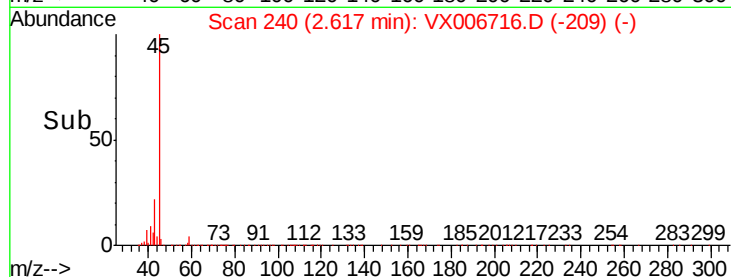
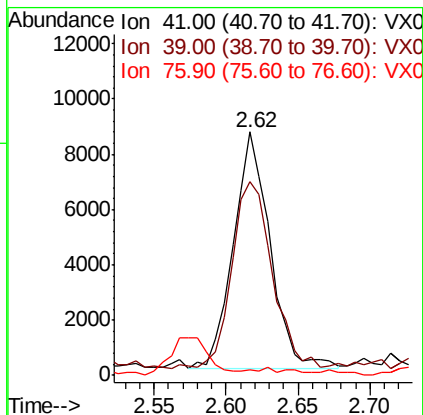
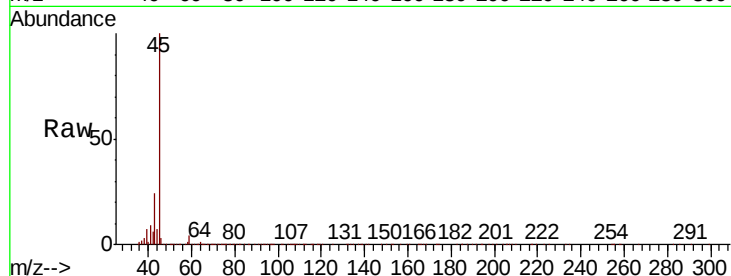
Tot Ion: 41 Resp: 15185

Ion Ratio Lower Upper

41 100

39 87.0 53.6 80.4#

76 1.8 27.4 41.2#



#15

Acrylonitrile

Concen: 0.407 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

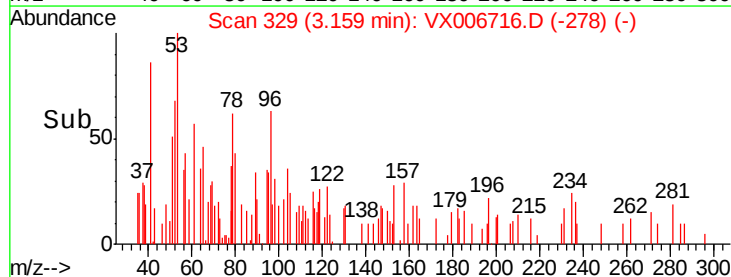
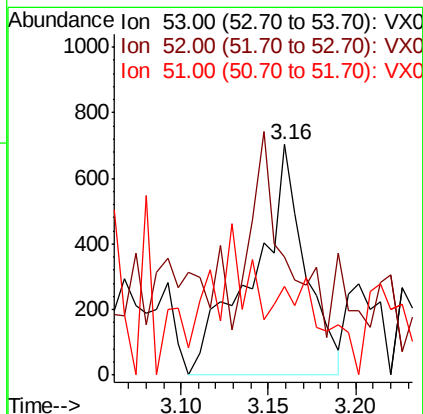
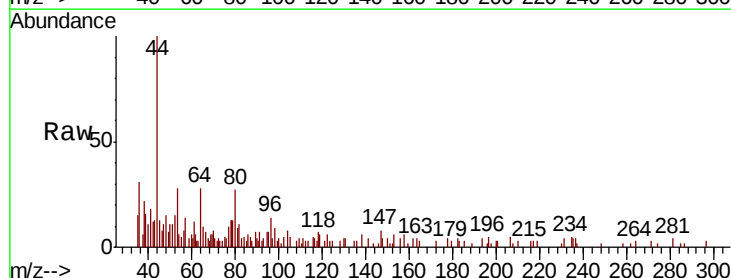
Tgt Ion: 53 Resp: 1454

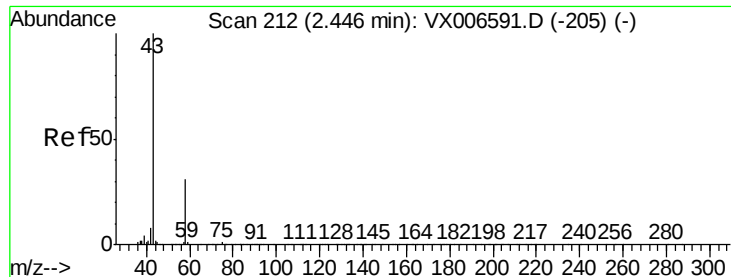
Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

51 33.8 28.6 42.8

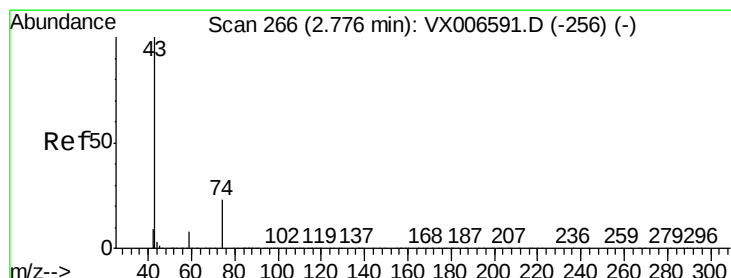
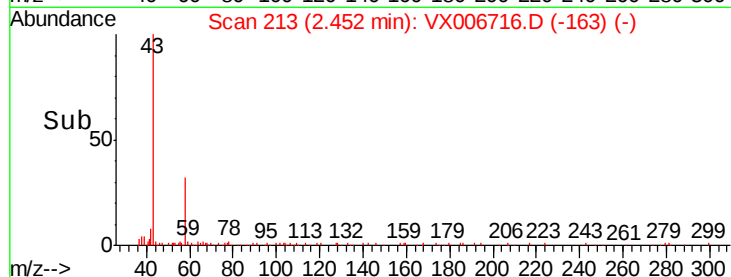
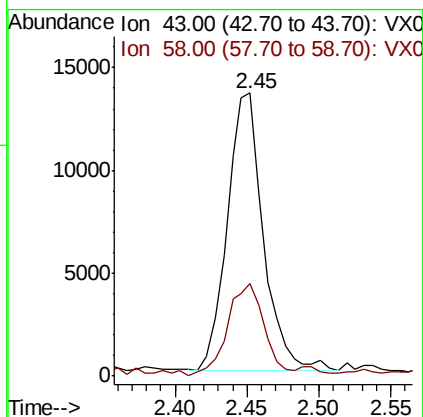
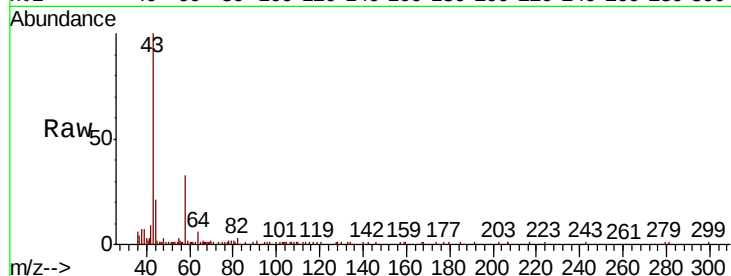




#16
Acetone
Concen: 7.069 ug/l
RT: 2.45 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX006716.D
Acq: 21 Dec 2018 11:56

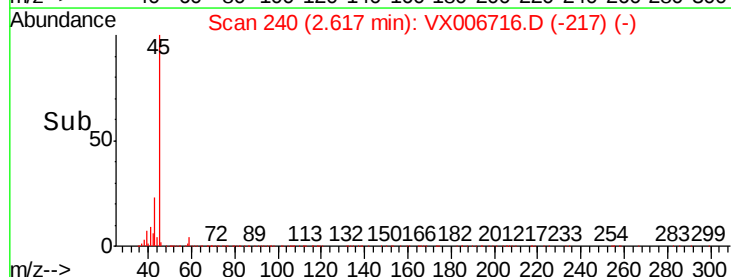
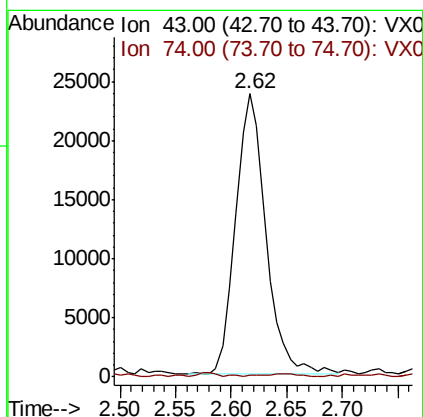
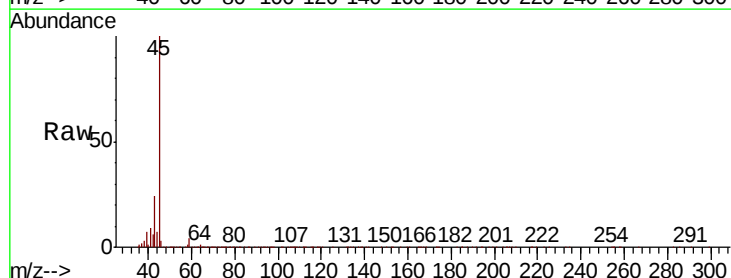
Instrument :
MSVOA_X
ClientSampleId :
S49-0500

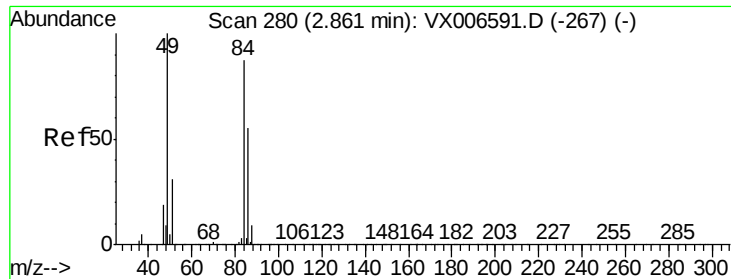
Tot Ion: 43 Resp: 23418
Ion Ratio Lower Upper
43 100
58 33.3 25.0 37.6



#18
Methyl Acetate
Concen: 4.594 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.16 min
Lab File: VX006716.D
Acq: 21 Dec 2018 11:56

Tgt Ion: 43 Resp: 44756
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#

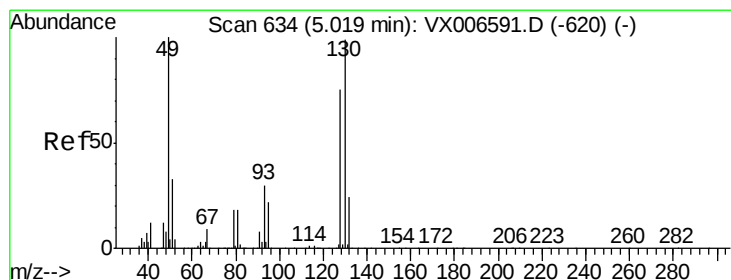
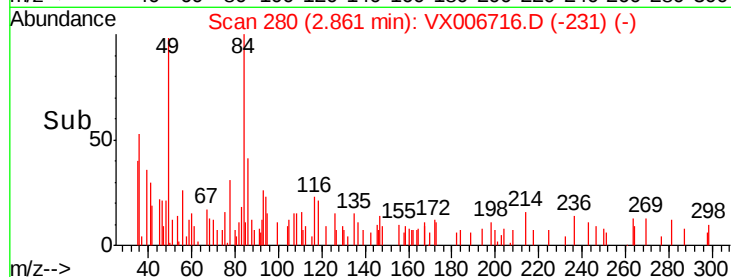
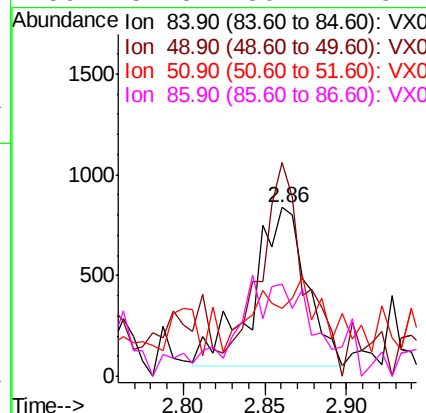
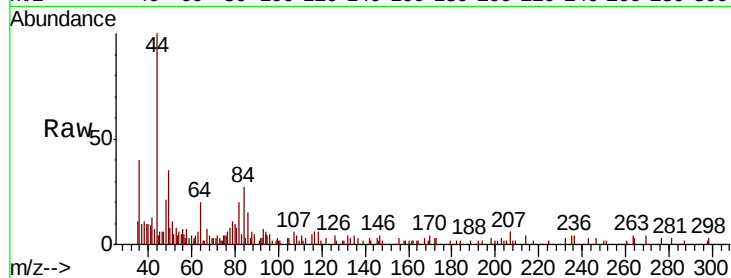




#20
Methvlene Chloride
Concen: 0.265 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006716.D
Acq: 21 Dec 2018 11:56

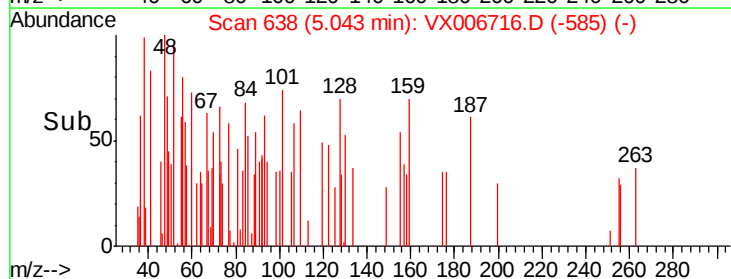
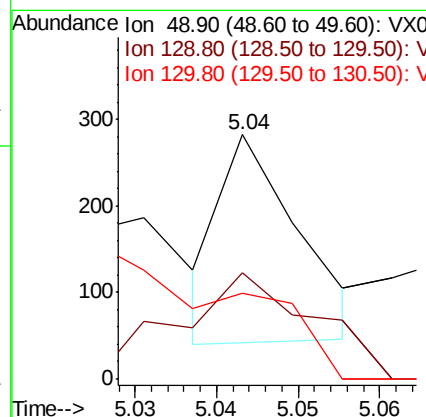
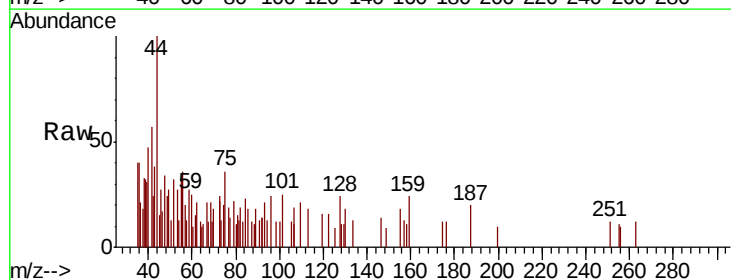
Instrument :
MSVOA_X
ClientSampleId :
S49-0500

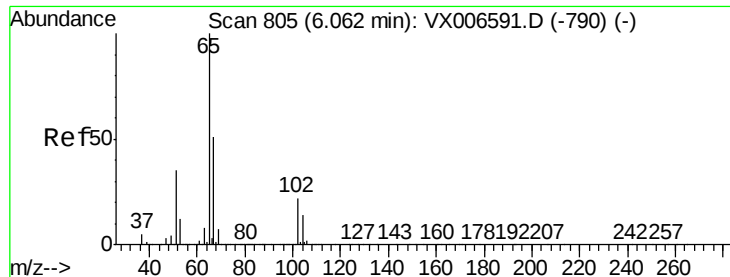
Tot Ion: 84 Resp: 1814
Ion Ratio Lower Upper
84 100
49 146.2 91.8 137.6#
51 3.6 28.5 42.7#
86 54.3 50.2 75.2



#28
Bromochloromethane
Concen: Below Cal
RT: 5.04 min Scan# 638
Delta R.T. 0.02 min
Lab File: VX006716.D
Acq: 21 Dec 2018 11:56

Tgt Ion: 49 Resp: 161
Ion Ratio Lower Upper
49 100
129 88.2 0.0 5.4#
130 139.8 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 48.537 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampled :

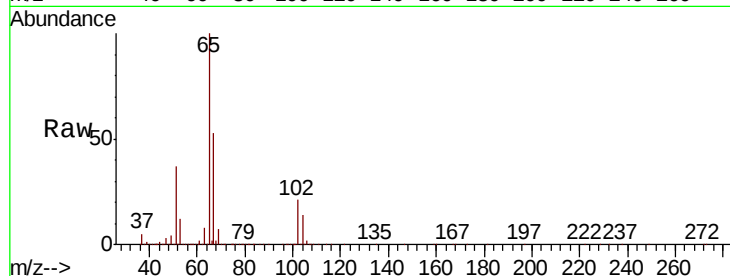
S49-0500

Tot Ion: 65 Resp: 349993

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

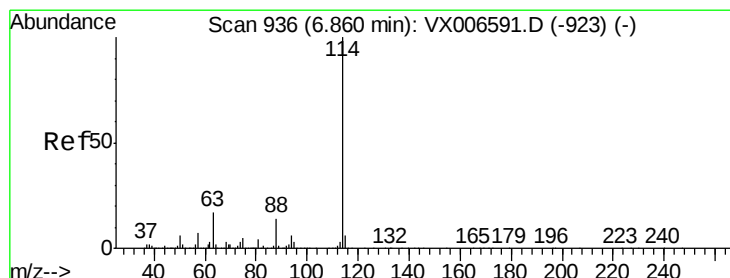
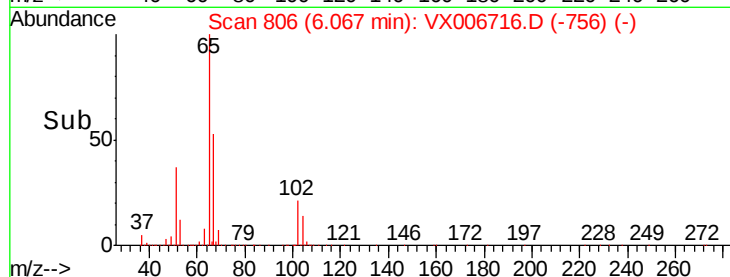
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

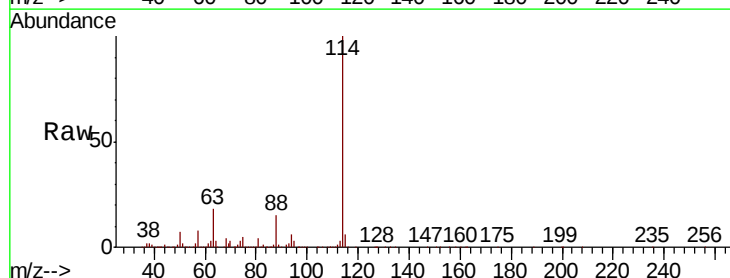
Tgt Ion: 114 Resp: 1032934

Ion Ratio Lower Upper

114 100

63 17.8 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

6.86

600000

500000

400000

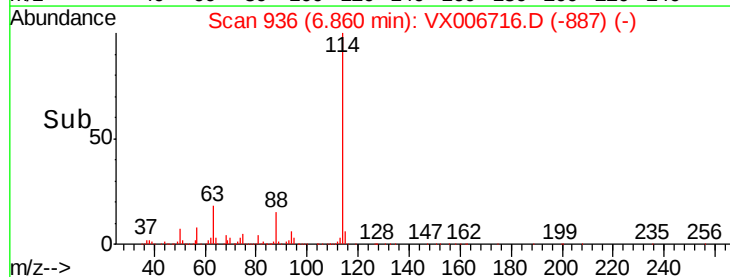
300000

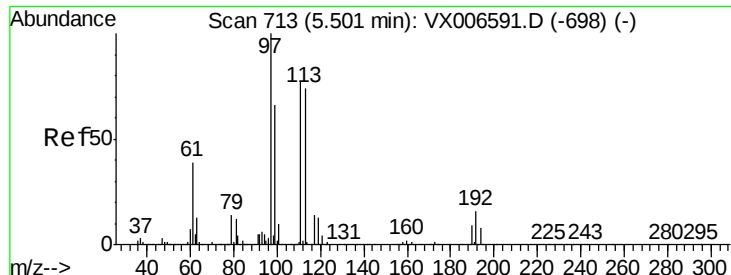
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.804 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0500

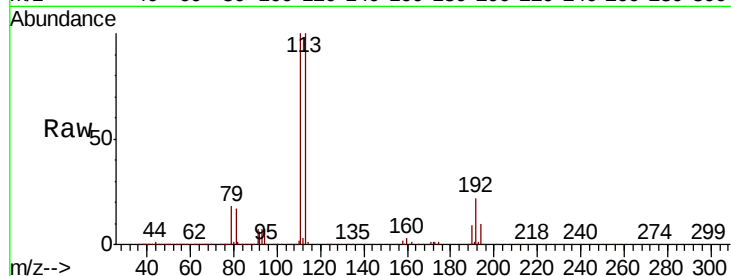
Tot Ion:113 Resp: 312259

Ion Ratio Lower Upper

113 100

111 100.6 81.6 122.4

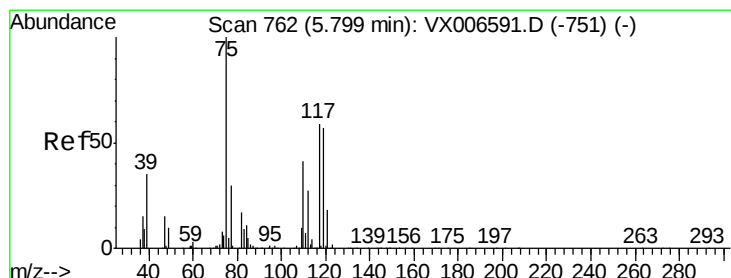
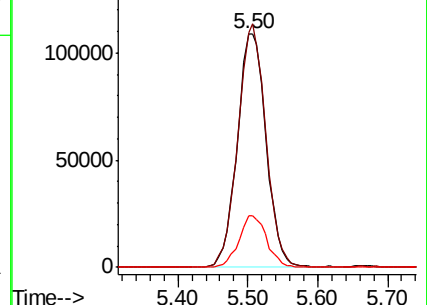
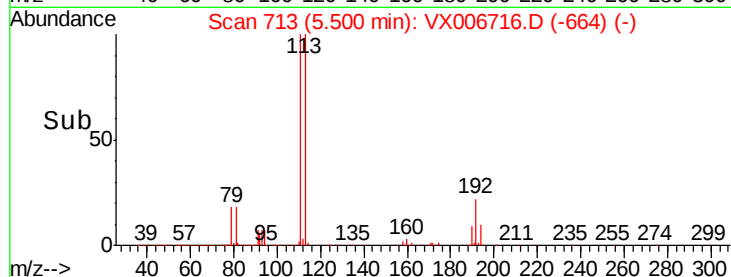
192 21.3 16.7 25.1



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: 5.242 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

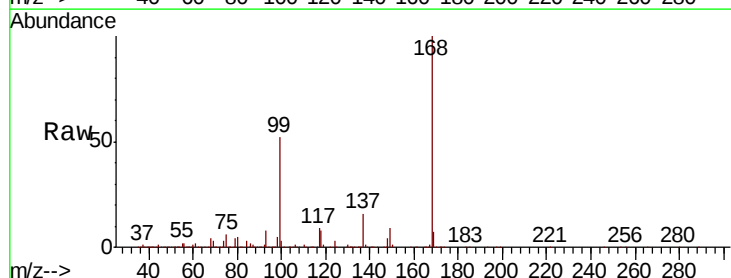
Tgt Ion: 75 Resp: 44845

Ion Ratio Lower Upper

75 100

110 11.0 20.2 60.5#

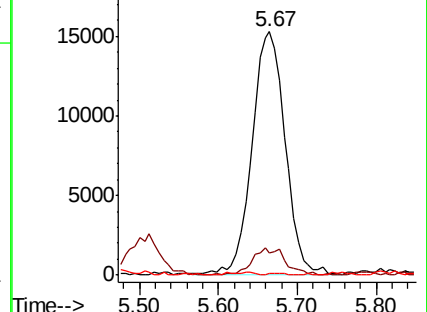
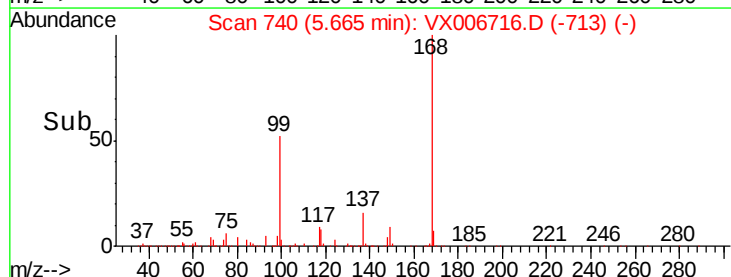
77 0.4 24.8 37.2#

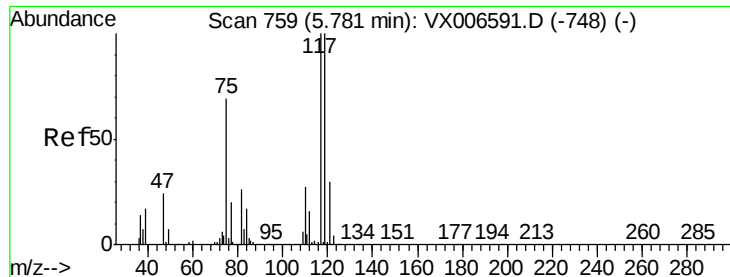


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.508 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0500

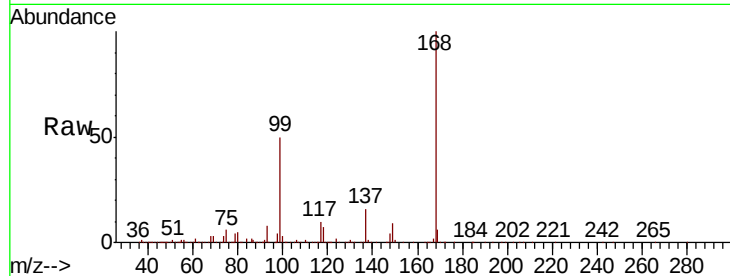
Tot Ion:117 Resp: 62422

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

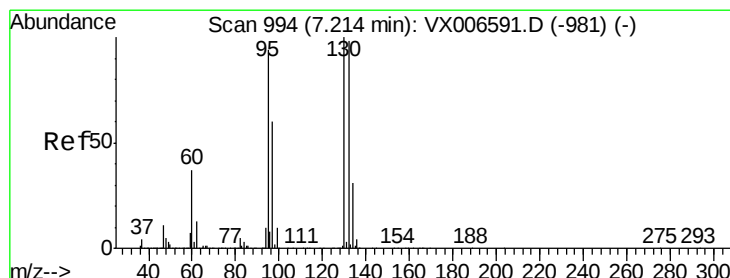
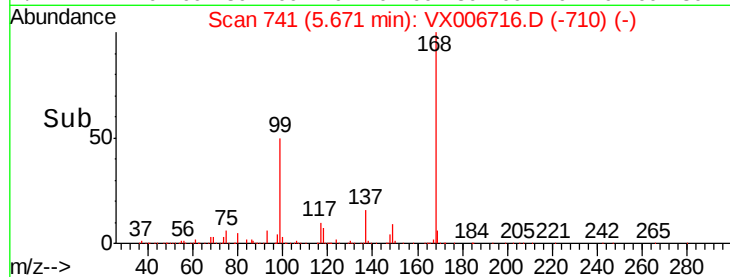
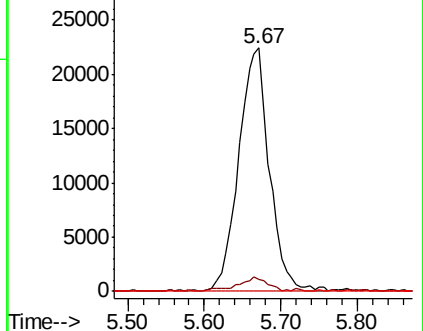
121 0.3 24.0 36.0#



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: 0.213 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006716.D

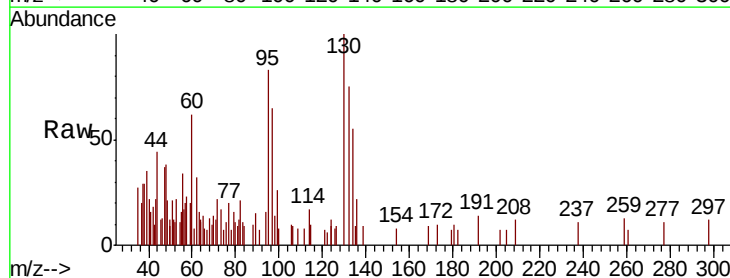
Acq: 21 Dec 2018 11:56

Tgt Ion:130 Resp: 1678

Ion Ratio Lower Upper

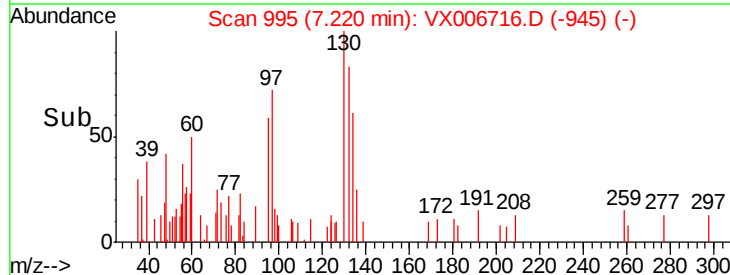
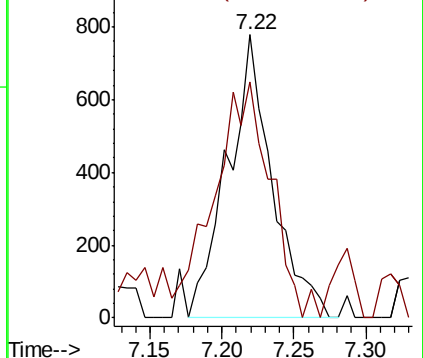
130 100

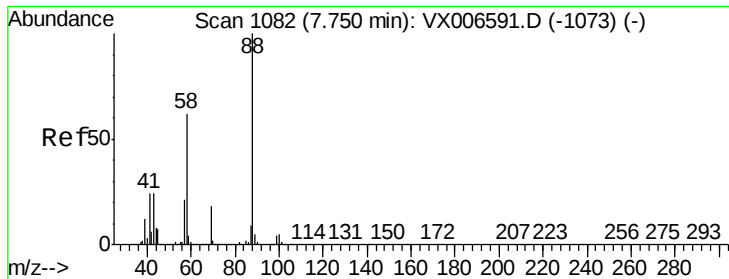
95 66.2 0.0 187.0



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: 7.77 min Scan# 1086

Delta R.T. 0.02 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0500

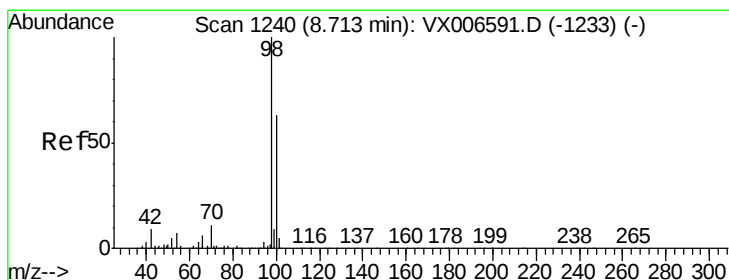
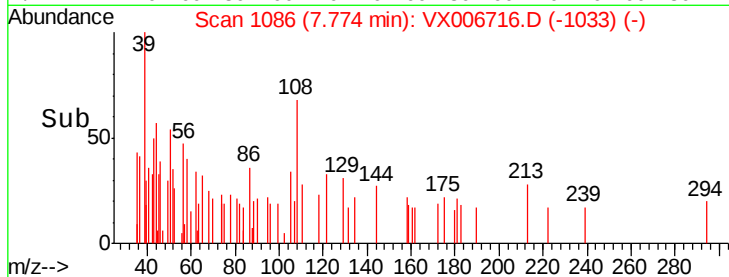
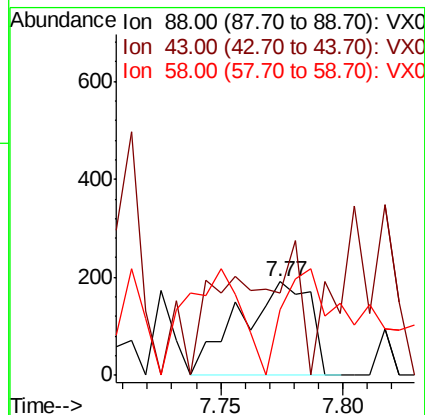
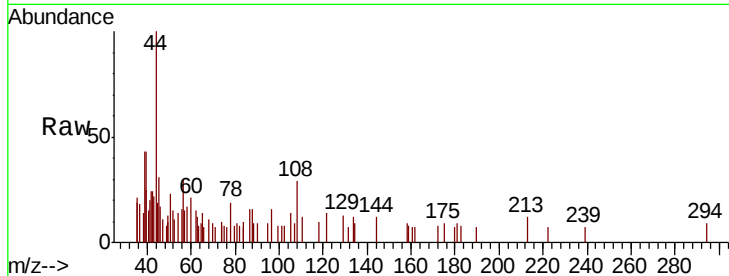
Tot Ion: 88 Resp: 384

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 119.3 51.0 76.4#



#50

Toluene-d8

Concen: 49.075 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006716.D

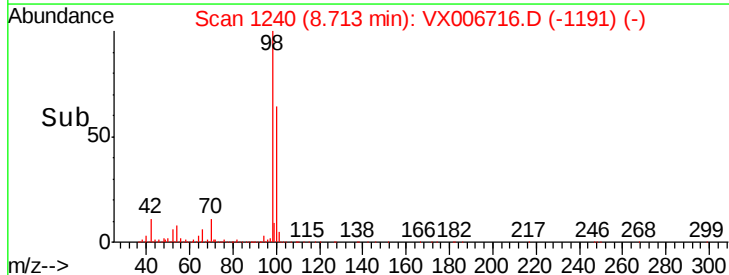
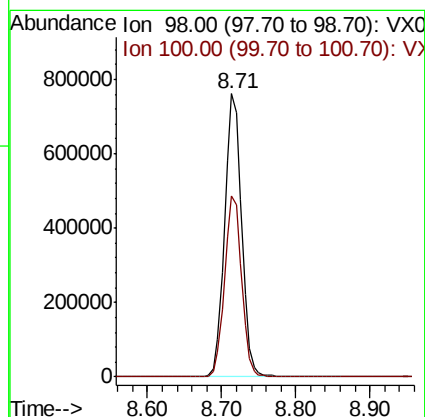
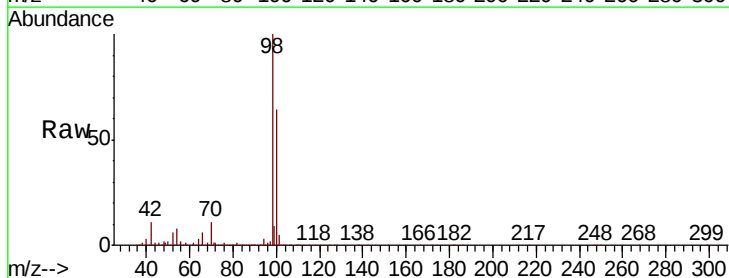
Acq: 21 Dec 2018 11:56

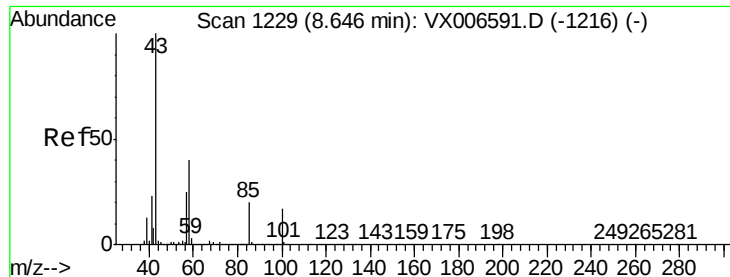
Tgt Ion: 98 Resp: 1208532

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.246 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

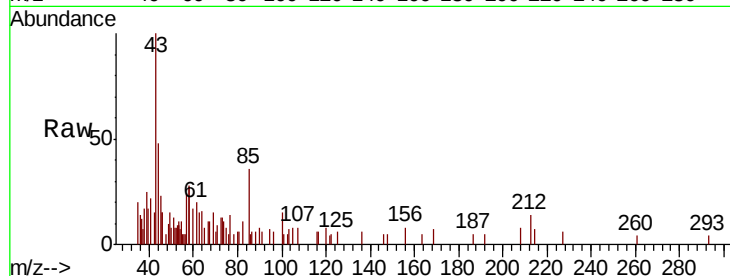
S49-0500

Tot Ion: 43 Resp: 2119

Ion Ratio Lower Upper

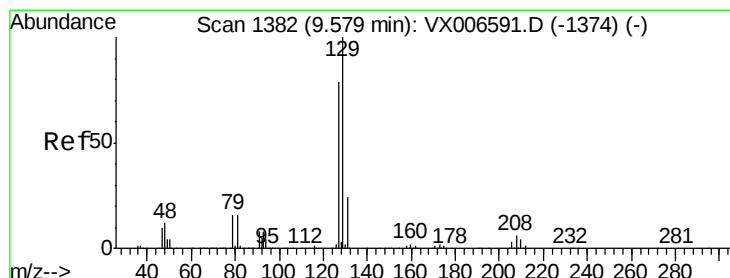
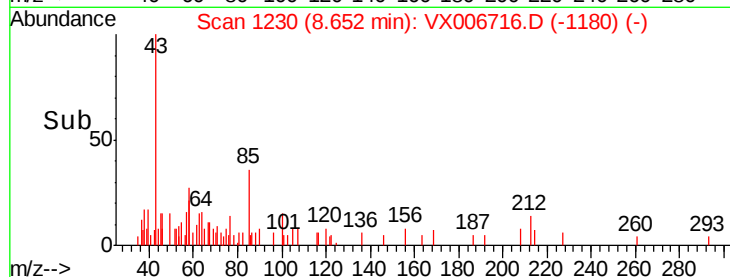
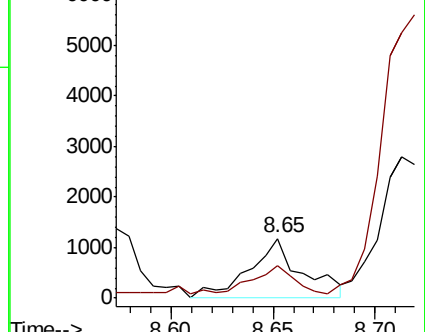
43 100

58 36.1 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 2.336 ug/l

RT: 9.57 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VX006716.D

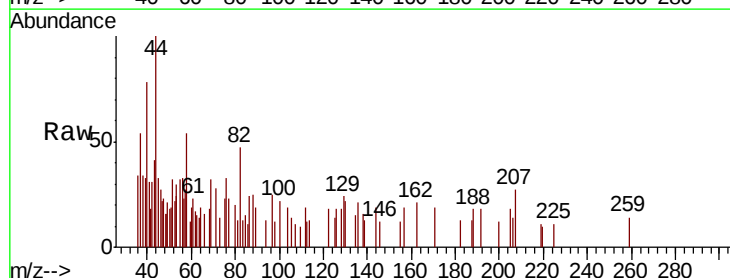
Acq: 21 Dec 2018 11:56

Tgt Ion:129 Resp: 88

Ion Ratio Lower Upper

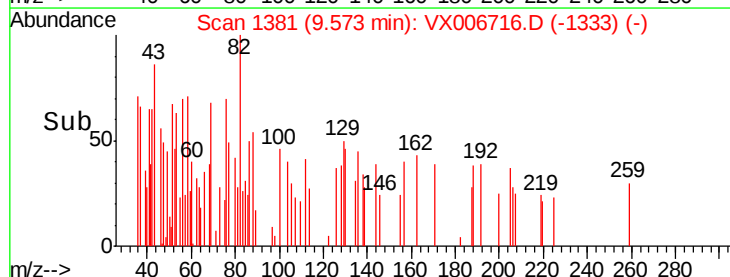
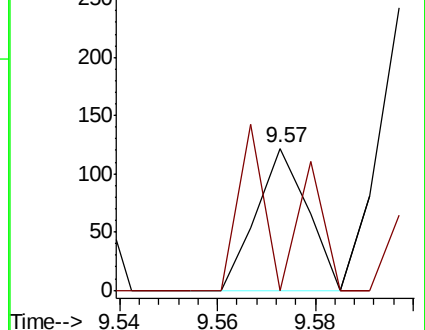
129 100

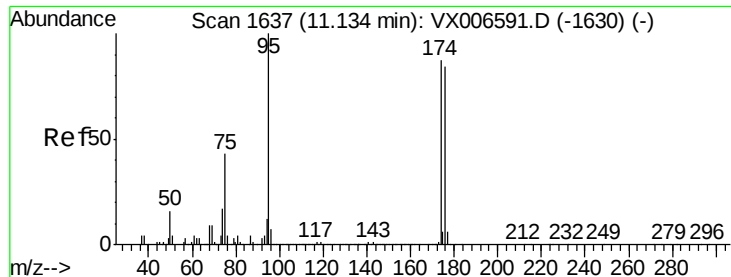
127 105.7 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 47.737 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0500

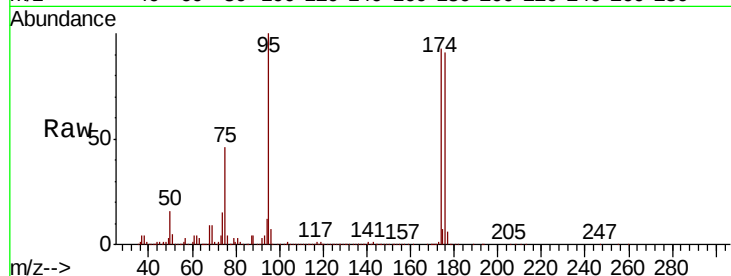
Tot Ion: 95 Resp: 430550

Ion Ratio Lower Upper

95 100

174 87.2 0.0 182.2

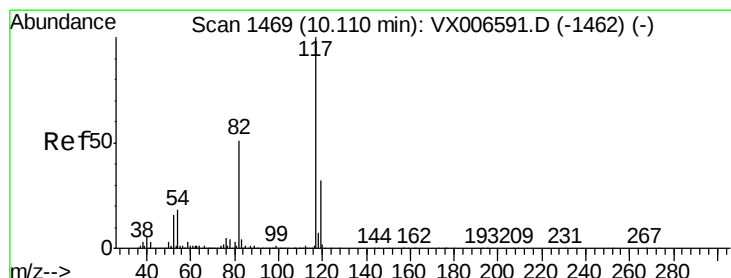
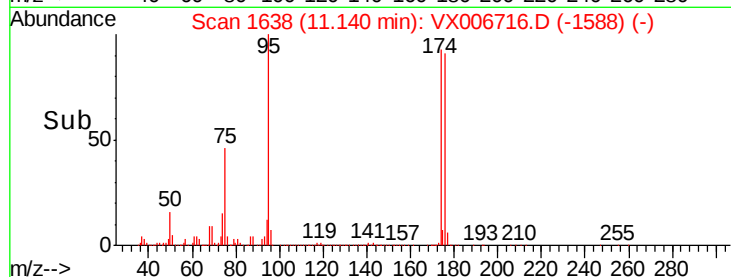
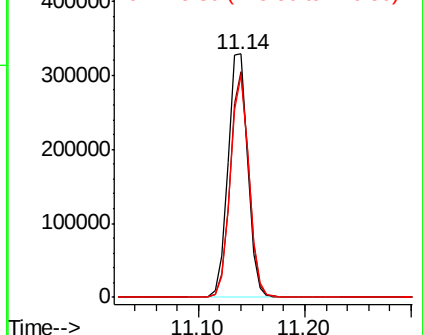
176 85.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

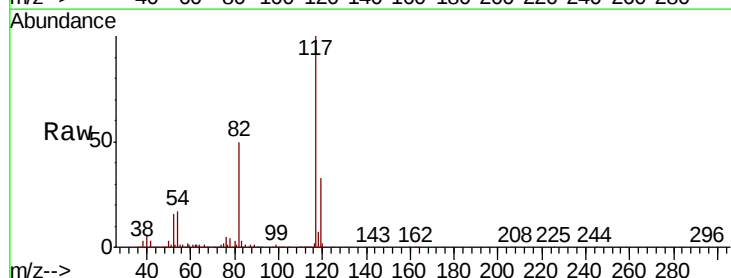
Tgt Ion: 117 Resp: 928640

Ion Ratio Lower Upper

117 100

82 50.4 41.0 61.6

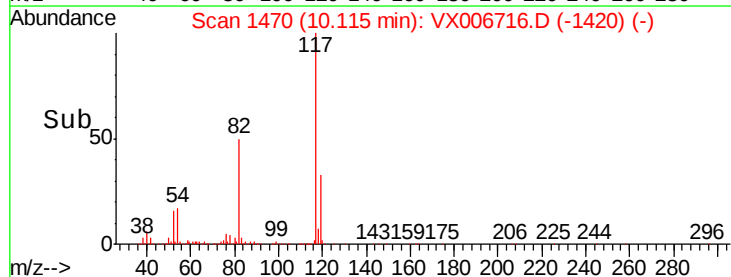
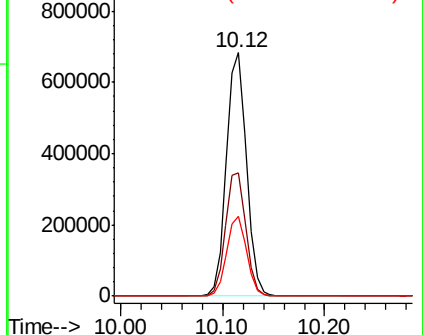
119 32.8 25.4 38.0

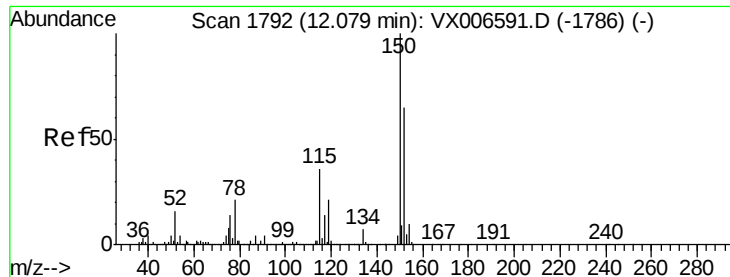


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0500

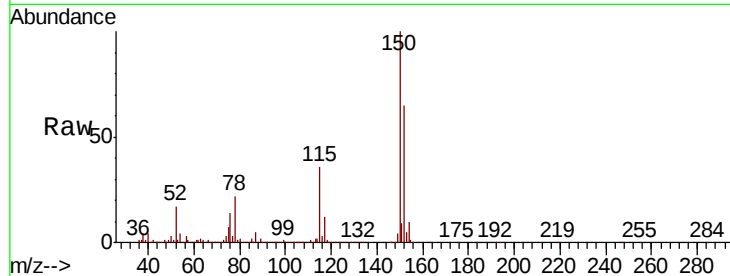
Tot Ion:152 Resp: 438178

Ion Ratio Lower Upper

152 100

115 56.7 39.1 117.2

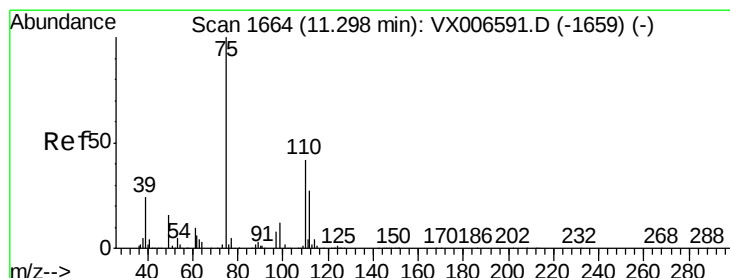
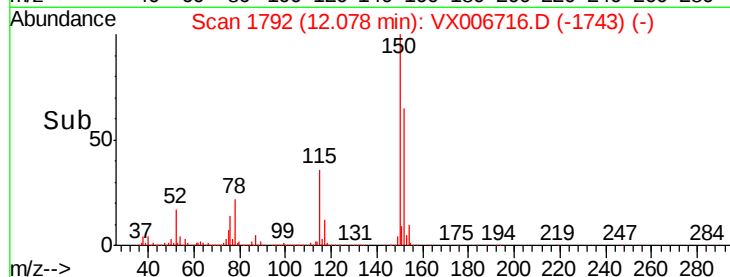
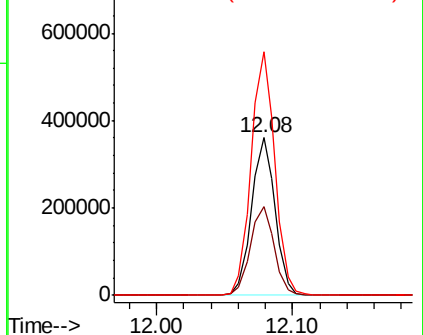
150 156.0 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006716.D

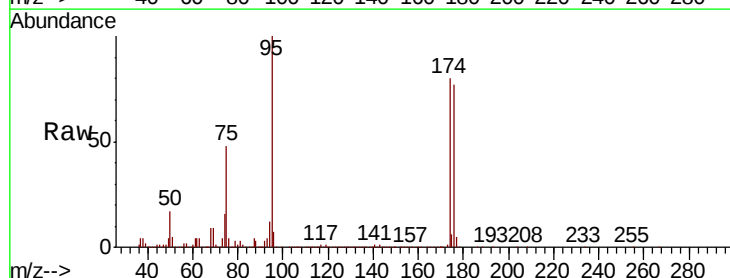
Acq: 21 Dec 2018 11:56

Tgt Ion: 75 Resp: 201265

Ion Ratio Lower Upper

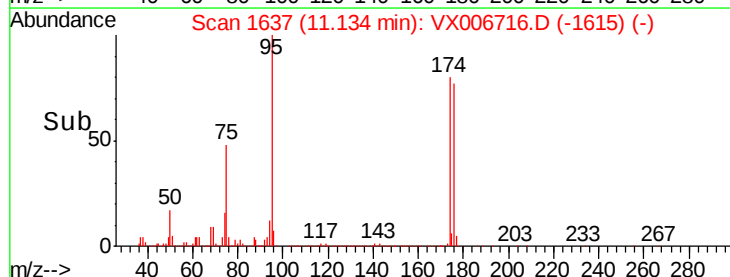
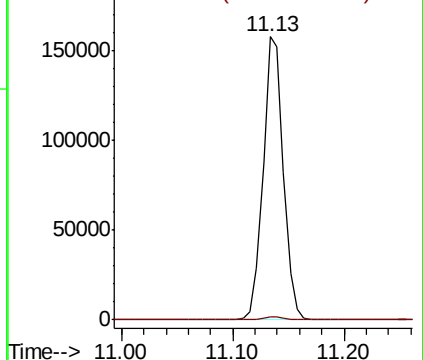
75 100

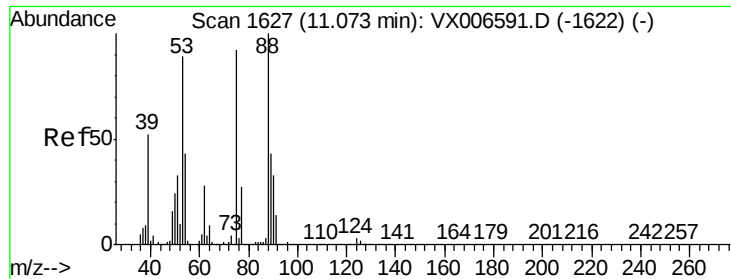
77 1.4 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.082 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006716.D

Acq: 21 Dec 2018 11:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0500

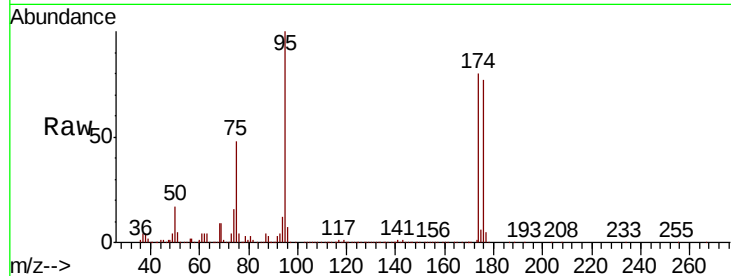
Tot Ion: 75 Resp: 201265

Ion Ratio Lower Upper

75 100

53 0.3 79.7 119.5#

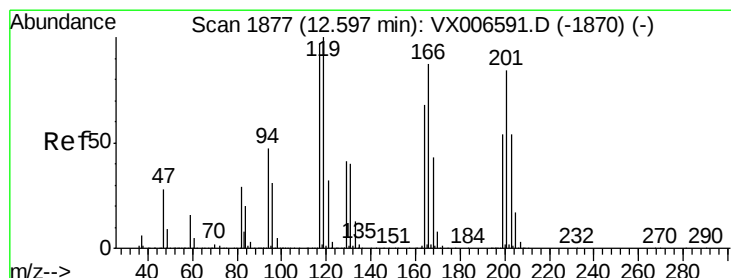
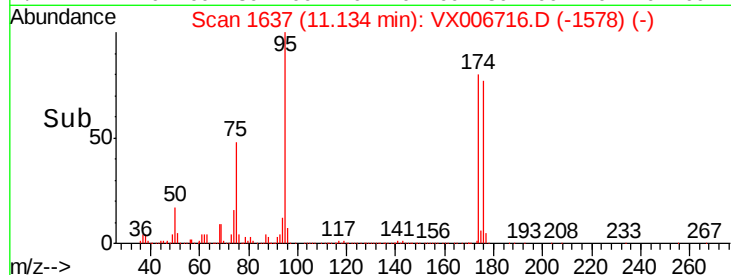
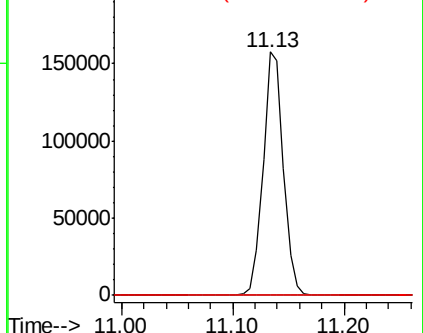
89 0.1 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 3.315 ug/l

RT: 12.86 min Scan# 1920

Delta R.T. 0.26 min

Lab File: VX006716.D

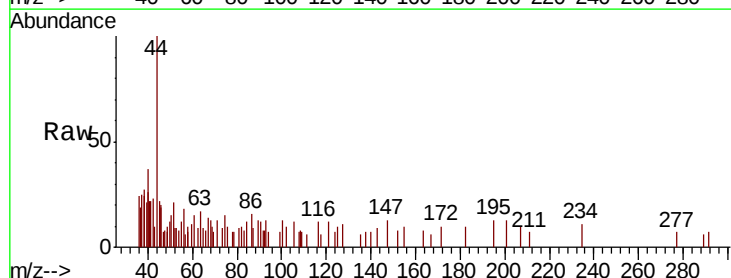
Acq: 21 Dec 2018 11:56

Tgt Ion: 117 Resp: 95

Ion Ratio Lower Upper

117 100

201 104.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

