

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006723.D
 Acq On : 21 Dec 2018 15:03
 Operator : JC/MD
 Sample : J6514-01DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 S49-0494DL

Quant Time: Dec 22 04:03:48 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	656860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1013389	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	905810	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	427278	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	346954	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
35) Dibromofluoromethane	5.51	113	307241	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
50) Toluene-d8	8.71	98	1178693	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
62) 4-Bromofluorobenzene	11.13	95	412381	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	

Target Compounds

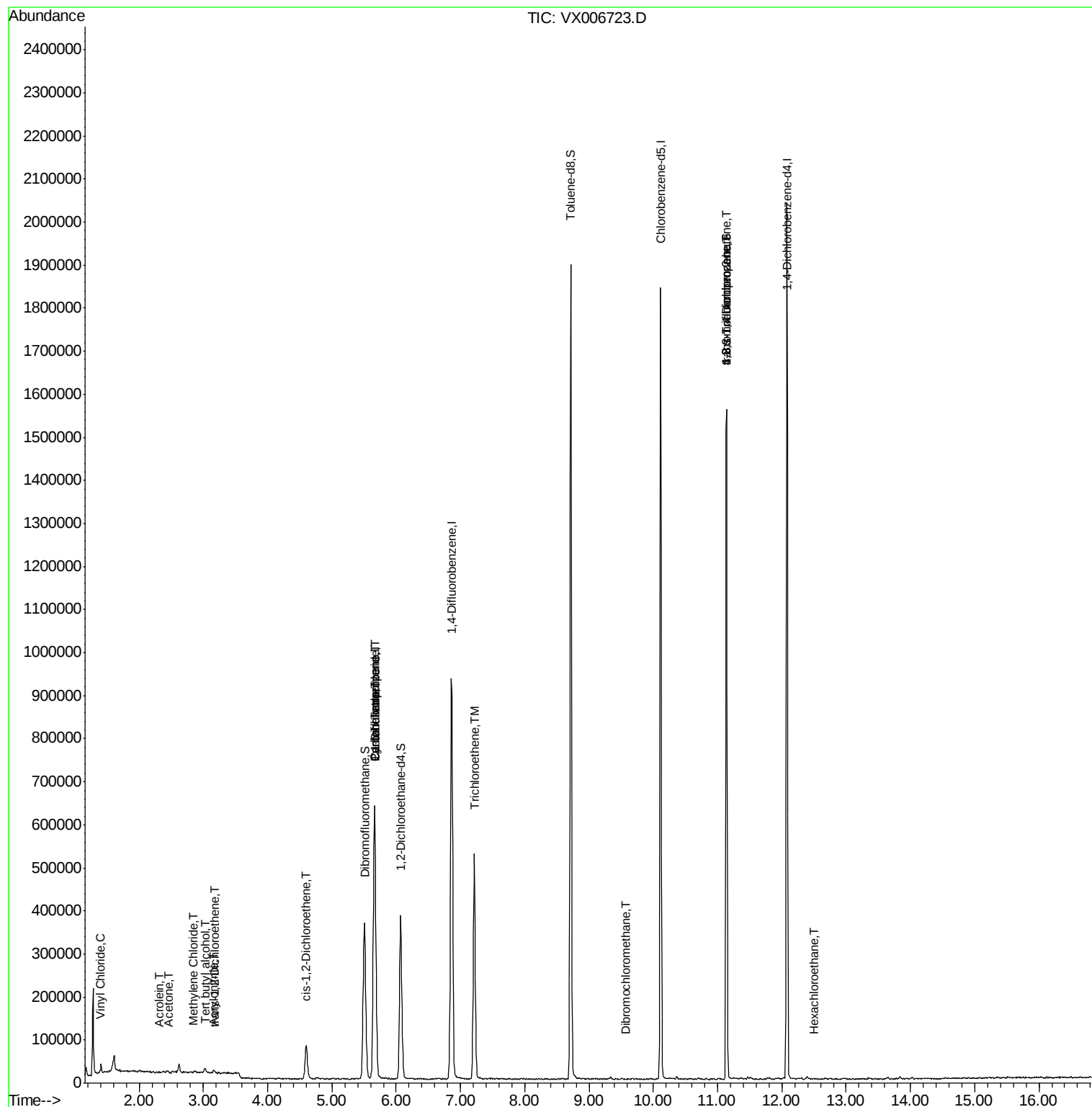
					Qvalue	
4) Vinyl Chloride	1.41	62	10857	1.606	ug/l	97
5) Bromomethane	1.65	94	1910	Below Cal		83
11) Tert butyl alcohol	3.03	59	7448	4.714	ug/l #	78
13) Acrolein	2.31	56	850	0.798	ug/l #	13
15) Acrylonitrile	3.15	53	824	0.235	ug/l #	48
16) Acetone	2.45	43	5463	1.680	ug/l #	83
20) Methylene Chloride	2.85	84	1850	0.275	ug/l #	82
21) trans-1,2-Dichloroethene	3.17	96	2977	0.458	ug/l #	59
27) cis-1,2-Dichloroethene	4.60	96	53306	7.430	ug/l	91
28) Bromochloromethane	5.01	49	147	Below Cal	#	55
31) Cyclohexane	5.67	56	9922	1.012	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	41968	5.000	ug/l #	39
38) Carbon Tetrachloride	5.67	117	60573	7.426	ug/l #	15
44) Trichloroethene	7.21	130	209378	27.115	ug/l	97
49) 1,4-Dioxane	7.77	88	326	Below Cal	#	12
60) Dibromochloromethane	9.57	129	117	2.340	ug/l	77
76) 1,2,3-Trichloropropane	11.13	75	193349	24.349	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	193349	72.062	ug/l #	10
90) Hexachloroethane	12.51	117	22	3.298	ug/l	94

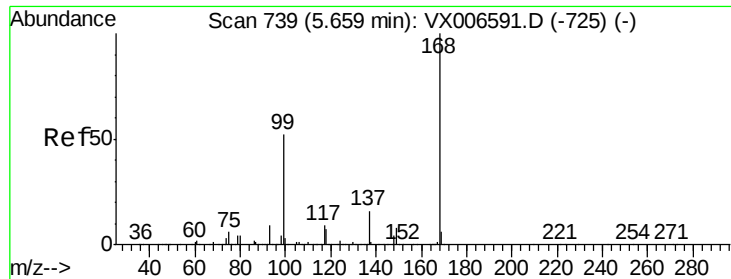
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

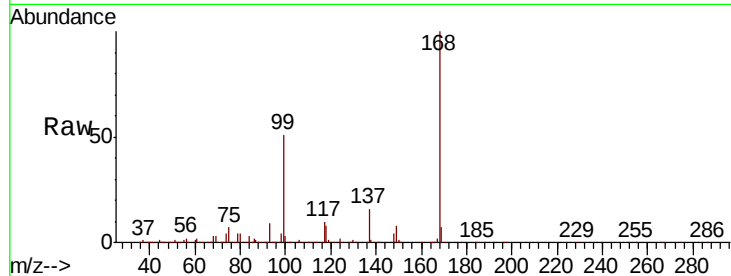
S49-0494DL

Tot Ion:168 Resp: 656860

Ion Ratio Lower Upper

168 100

99 51.2 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

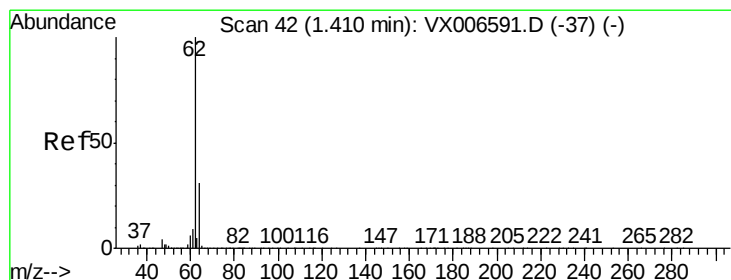
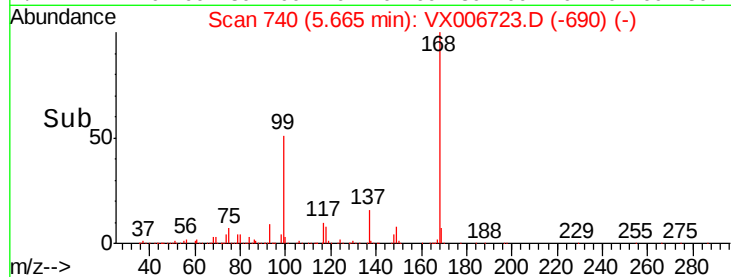
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.606 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006723.D

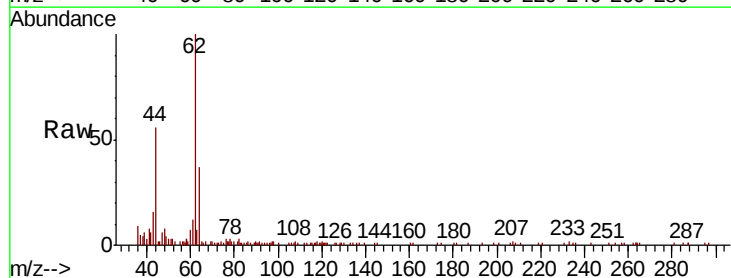
Acq: 21 Dec 2018 15:03

Tgt Ion: 62 Resp: 10857

Ion Ratio Lower Upper

62 100

64 29.6 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

12000

10000

8000

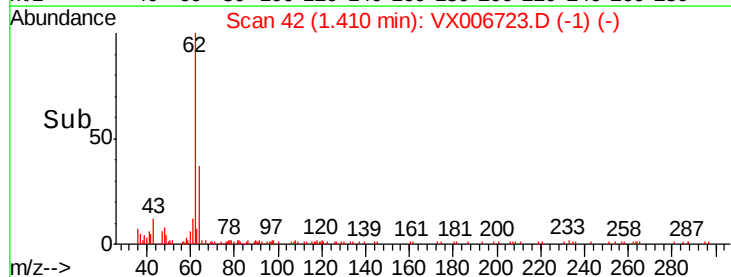
6000

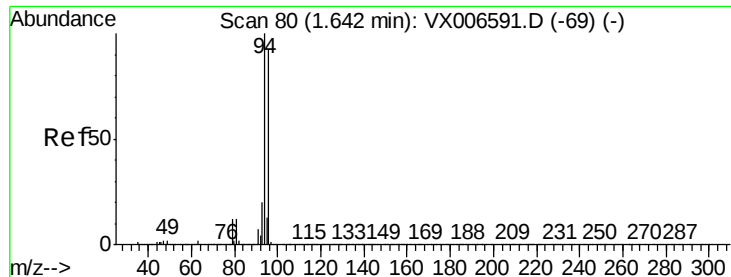
4000

2000

0

Time--> 1.30 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampled :

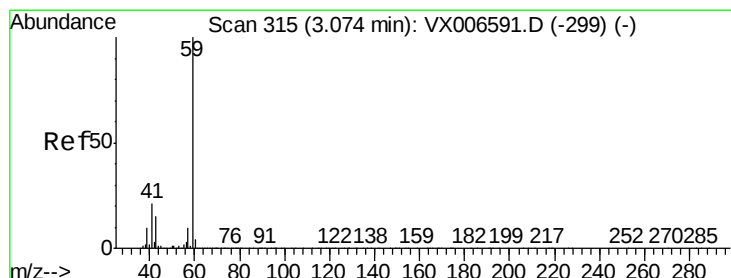
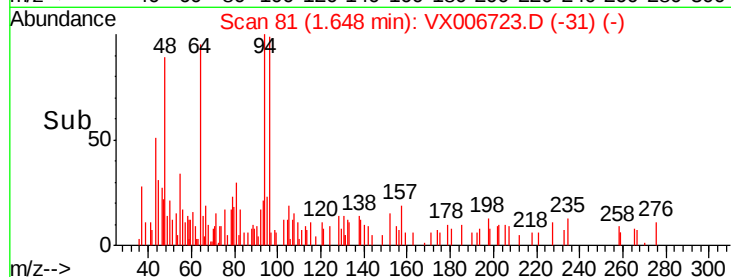
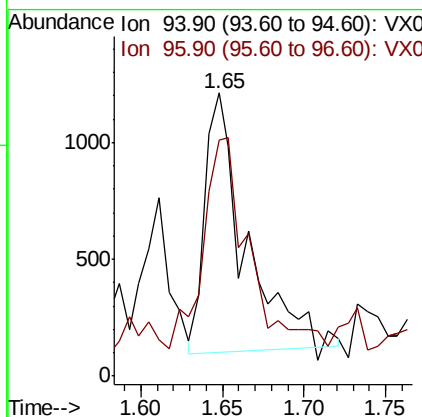
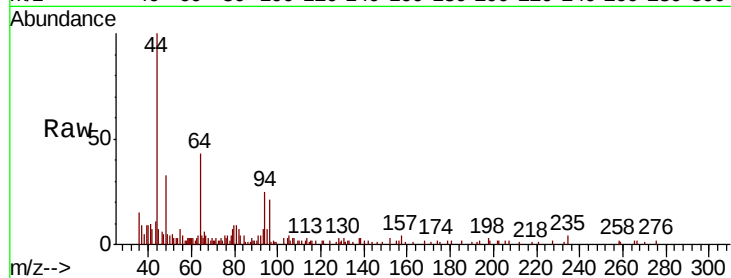
S49-0494DL

Tot Ion: 94 Resp: 1910

Ion Ratio Lower Upper

94 100

96 75.4 73.4 110.2



#11

Tert butyl alcohol

Concen: 4.714 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006723.D

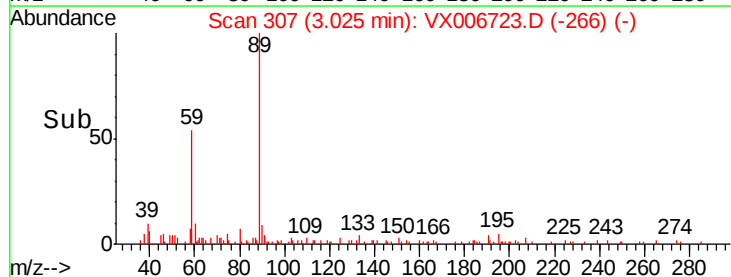
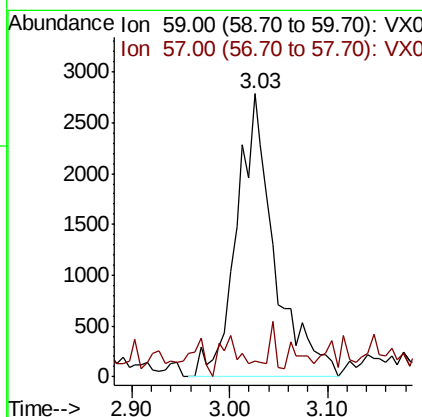
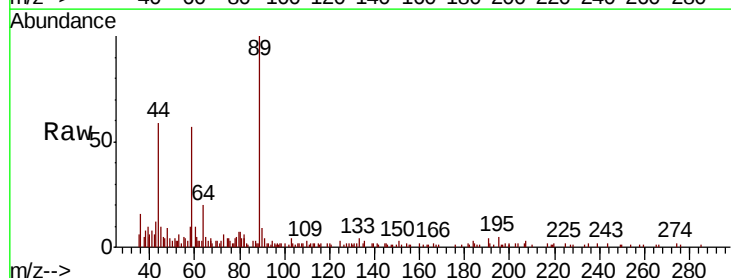
Acq: 21 Dec 2018 15:03

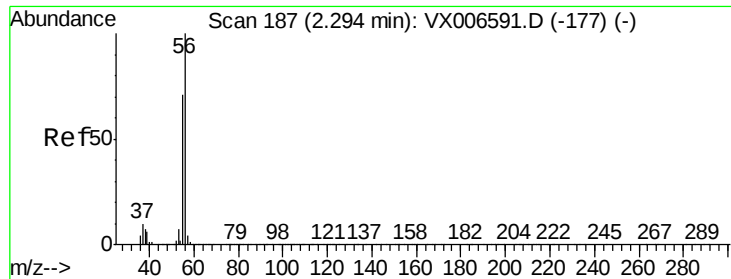
Tgt Ion: 59 Resp: 7448

Ion Ratio Lower Upper

59 100

57 2.5 8.5 12.7#





#13

Acrolein

Concen: 0.798 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampled :

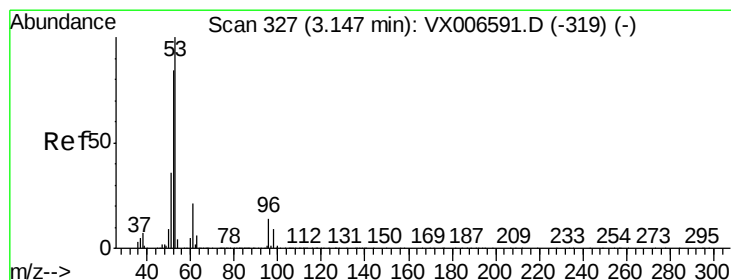
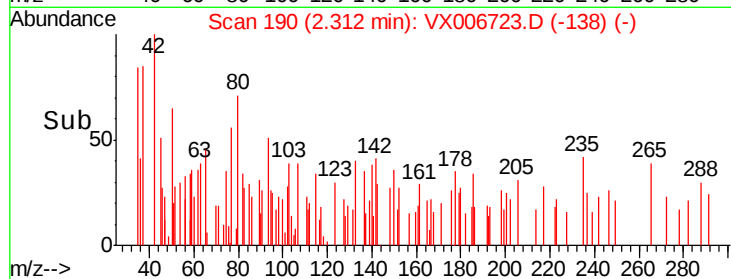
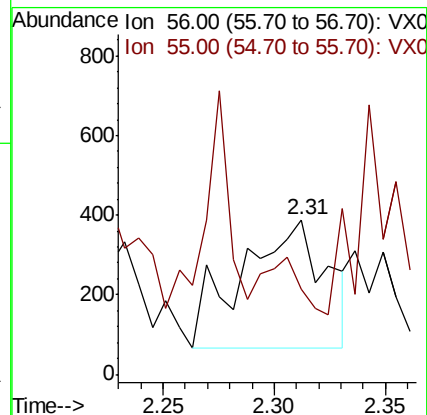
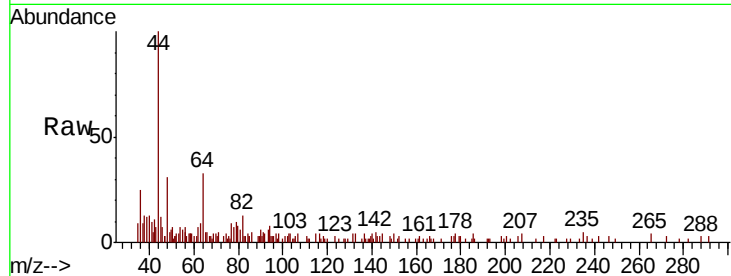
S49-0494DL

Tot Ion: 56 Resp: 850

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#15

Acrylonitrile

Concen: 0.235 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

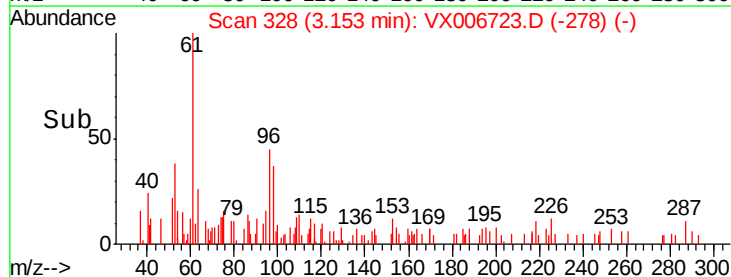
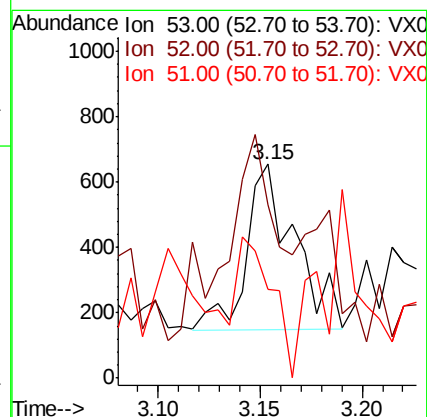
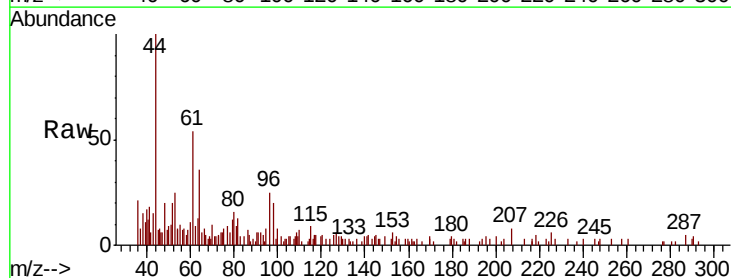
Tgt Ion: 53 Resp: 824

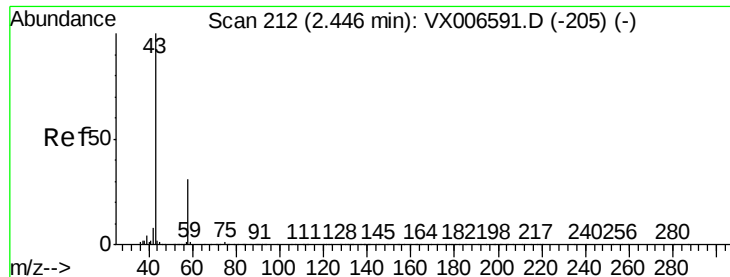
Ion Ratio Lower Upper

53 100

52 132.9 66.0 99.0#

51 60.6 28.6 42.8#

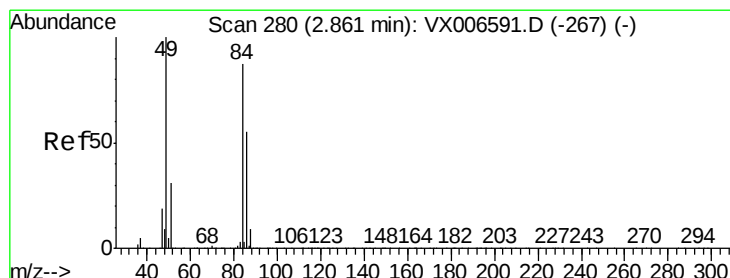
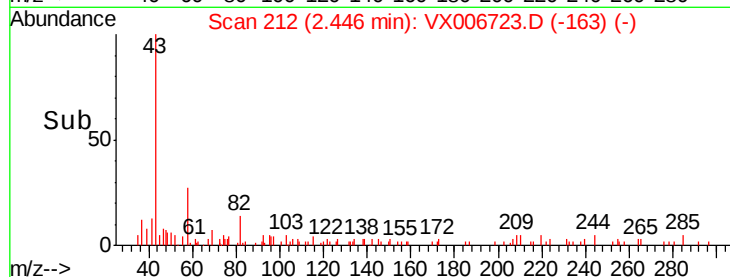
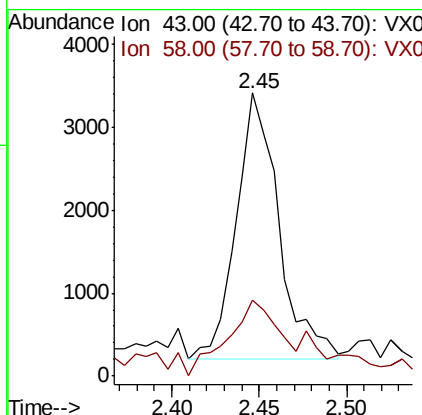
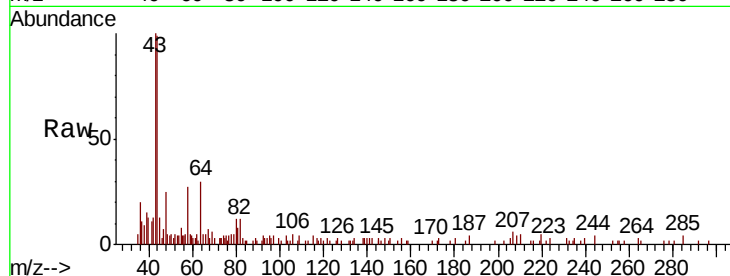




#16
Acetone
Concen: 1.680 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006723.D
Acq: 21 Dec 2018 15:03

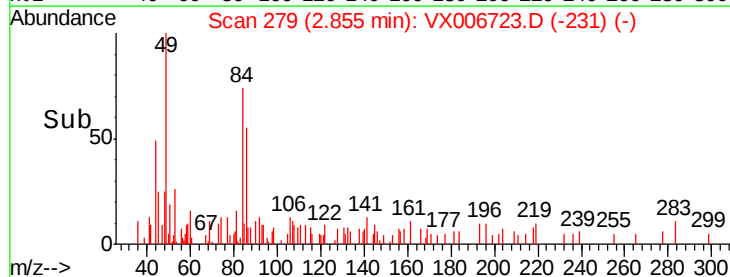
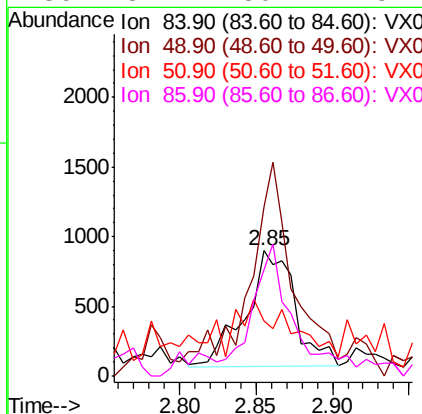
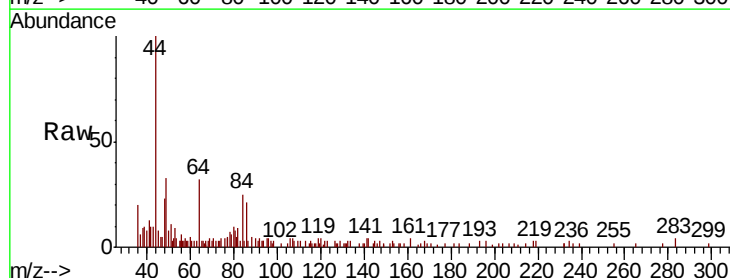
Instrument :
MSVOA_X
ClientSampleId :
S49-0494DL

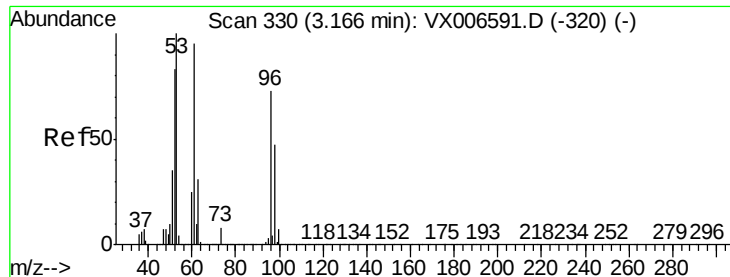
Tot Ion: 43 Resp: 5463
Ion Ratio Lower Upper
43 100
58 22.0 25.0 37.6#



#20
Methylene Chloride
Concen: 0.275 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006723.D
Acq: 21 Dec 2018 15:03

Tgt Ion: 84 Resp: 1850
Ion Ratio Lower Upper
84 100
49 133.1 91.8 137.6
51 30.6 28.5 42.7
86 82.7 50.2 75.2#





#21

trans-1,2-Dichloroethene

Concen: 0.458 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

S49-0494DL

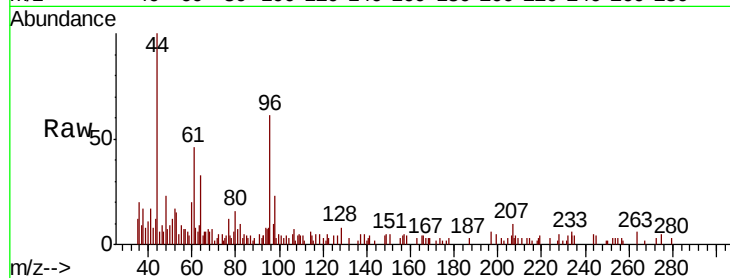
Tot Ion: 96 Resp: 2977

Ion Ratio Lower Upper

96 100

61 75.9 103.7 155.5#

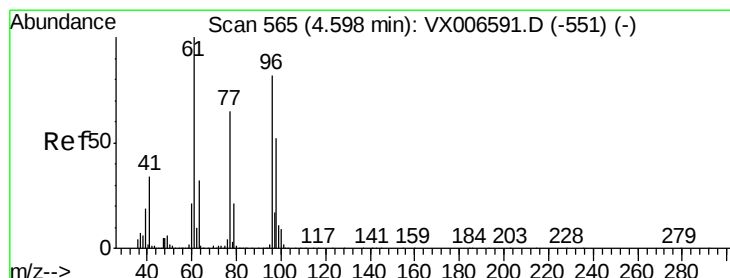
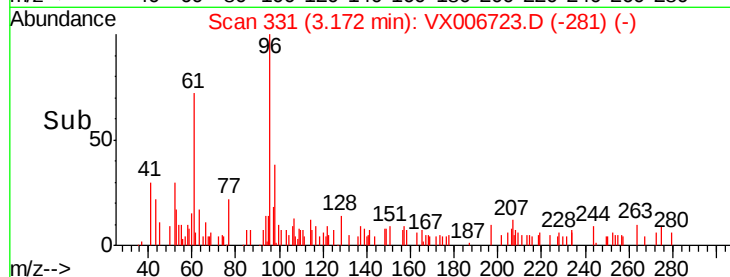
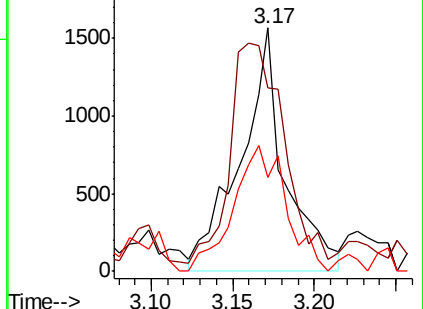
98 40.8 51.0 76.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 7.430 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

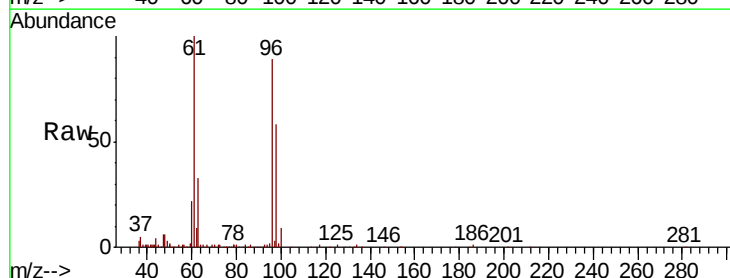
Tgt Ion: 96 Resp: 53306

Ion Ratio Lower Upper

96 100

61 114.5 0.0 258.6

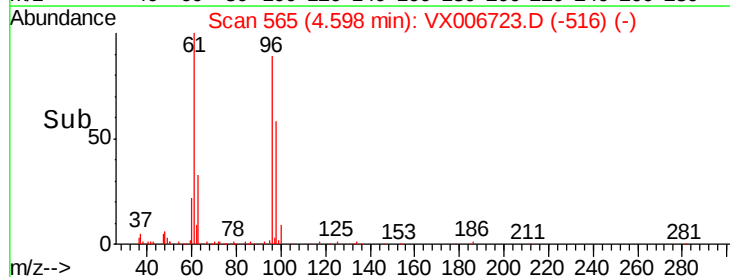
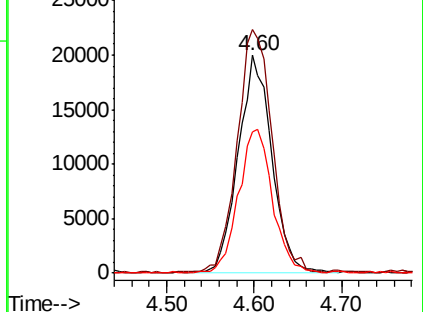
98 66.8 0.0 132.0

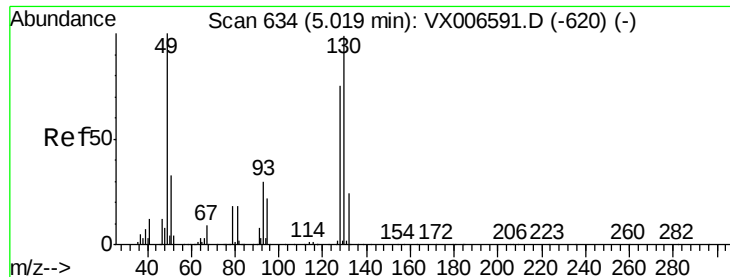


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleID :

S49-0494DL

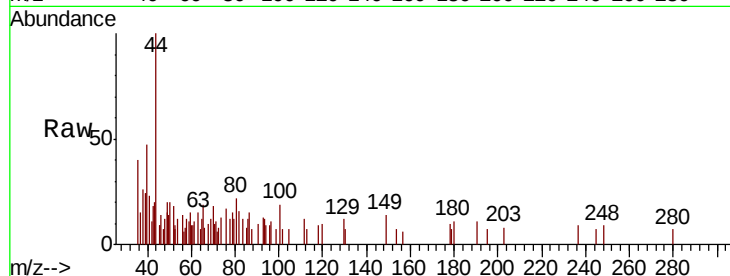
Tot Ion: 49 Resp: 147

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

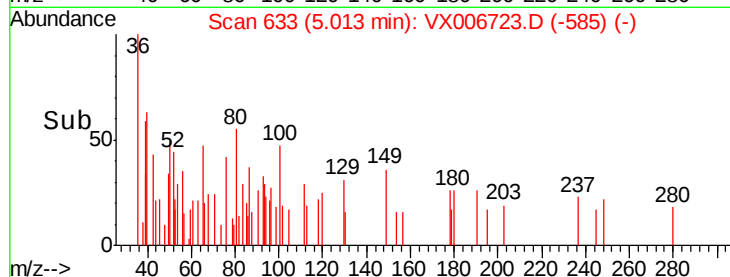
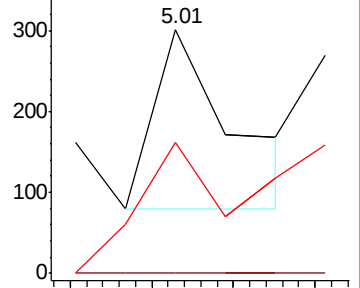
130 142.2 77.7 116.5#



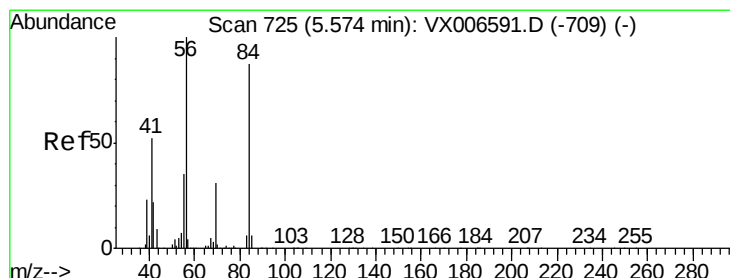
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#31

Cyclohexane

Concen: 1.012 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

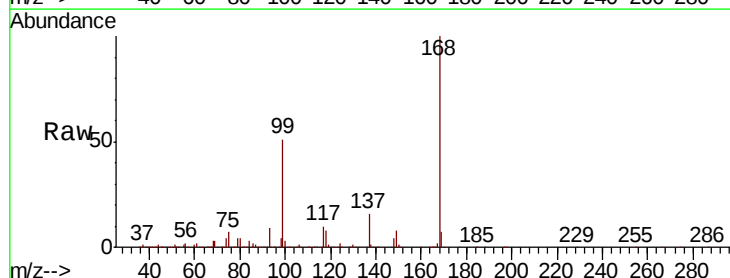
Tgt Ion: 56 Resp: 9922

Ion Ratio Lower Upper

56 100

69 178.0 24.4 36.6#

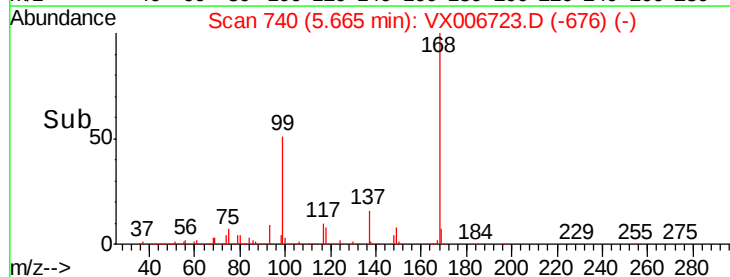
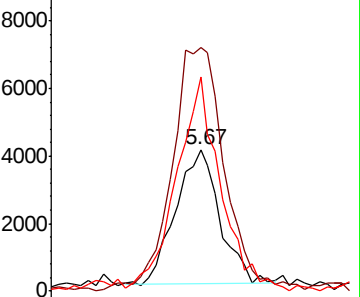
84 158.6 70.0 105.0#



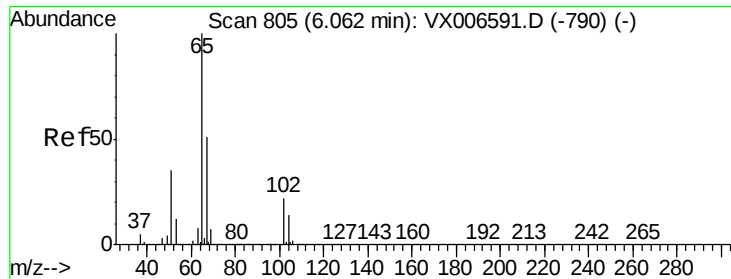
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



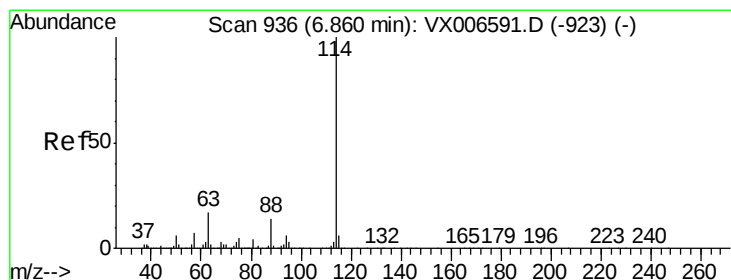
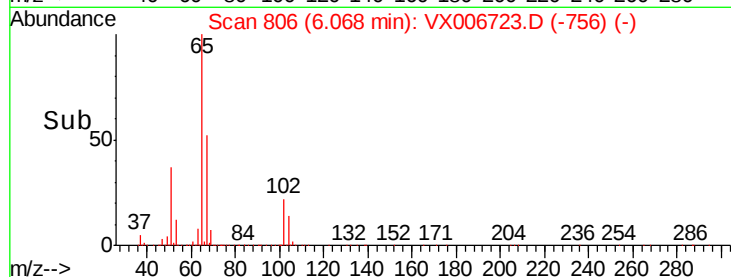
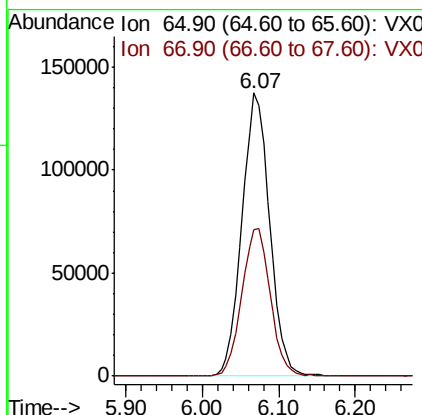
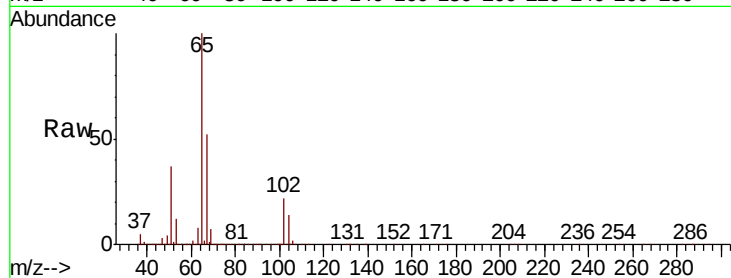
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 49.009 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX006723.D
 Acq: 21 Dec 2018 15:03

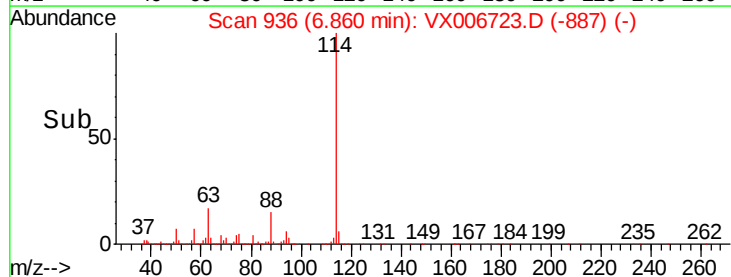
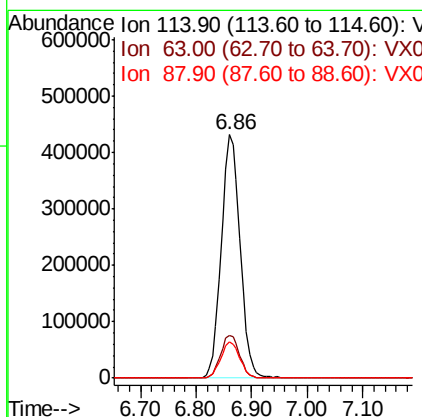
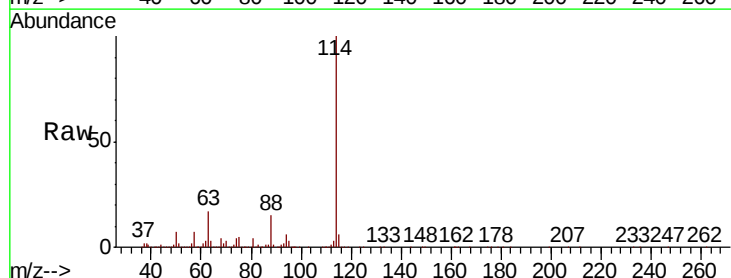
Instrument :
 MSVOA_X
 ClientSampleID :
 S49-0494DL

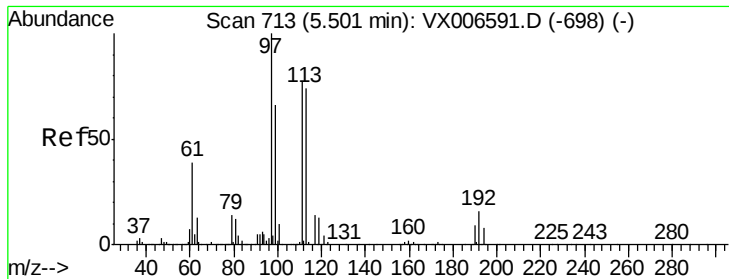
Tot Ion: 65 Resp: 346954
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006723.D
 Acq: 21 Dec 2018 15:03

Tgt Ion: 114 Resp: 1013389
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 34.8
 88 14.8 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.943 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

S49-0494DL

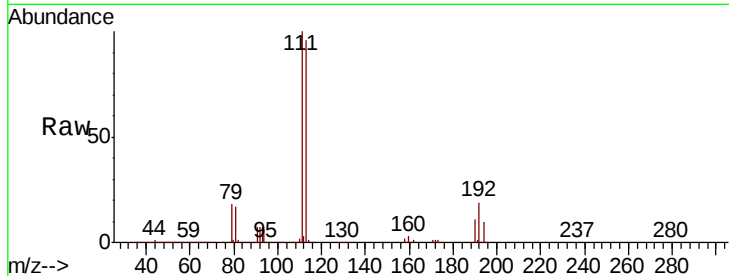
Tot Ion:113 Resp: 307241

Ion Ratio Lower Upper

113 100

111 102.8 81.6 122.4

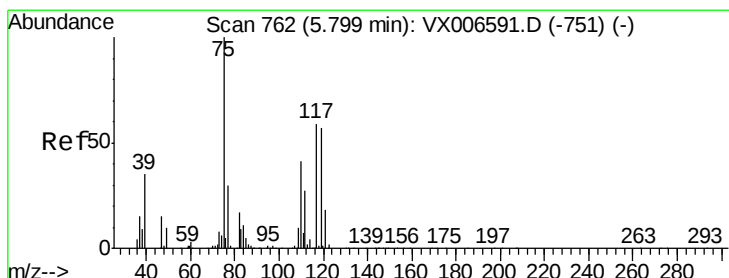
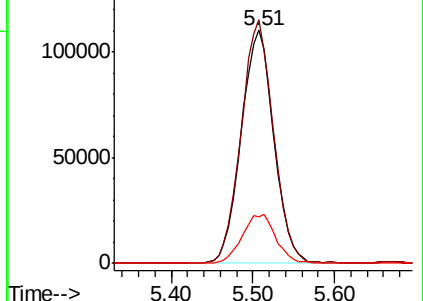
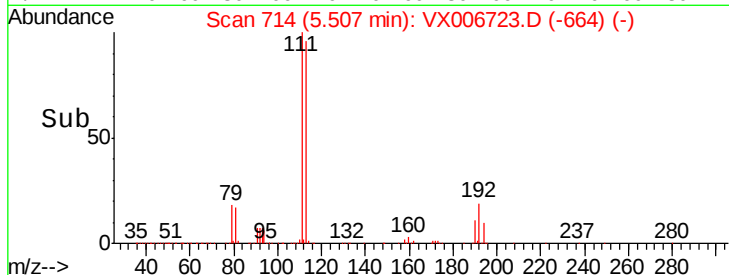
192 21.7 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

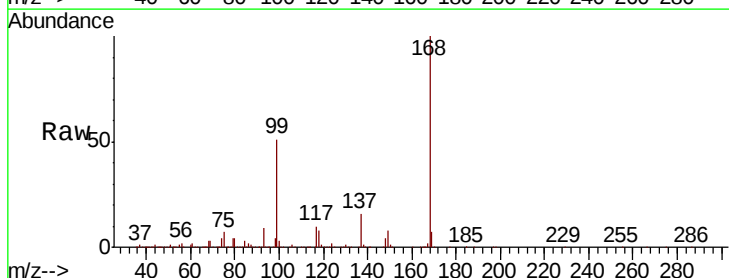
Tgt Ion: 75 Resp: 41968

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

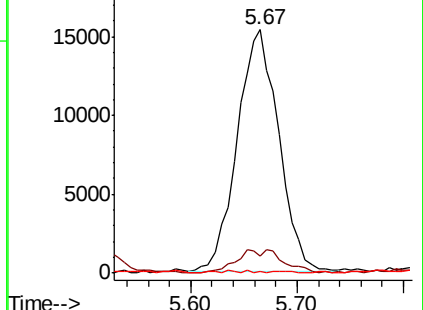
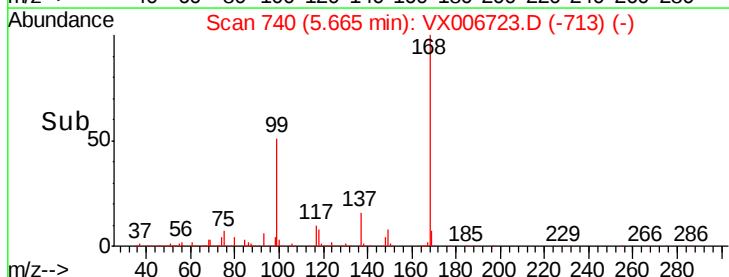
77 0.3 24.8 37.2#

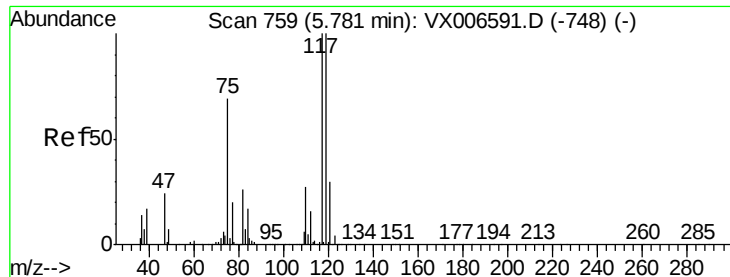


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.426 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

S49-0494DL

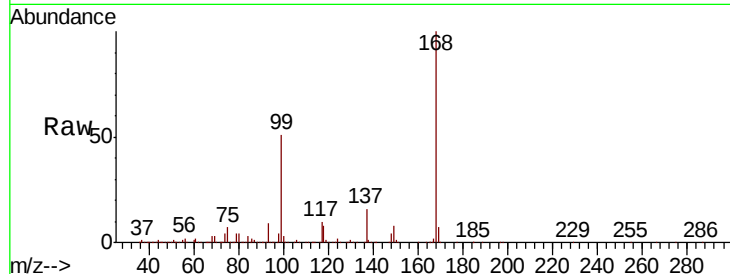
Tot Ion:117 Resp: 60573

Ion Ratio Lower Upper

117 100

119 5.3 79.4 119.2#

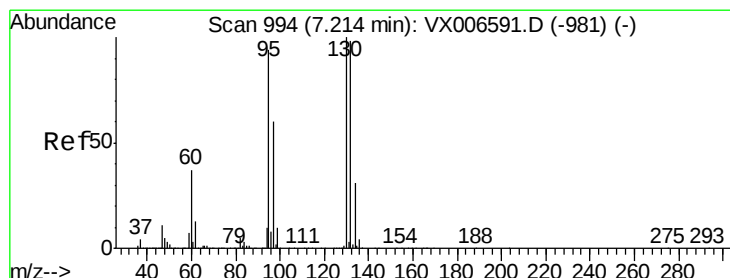
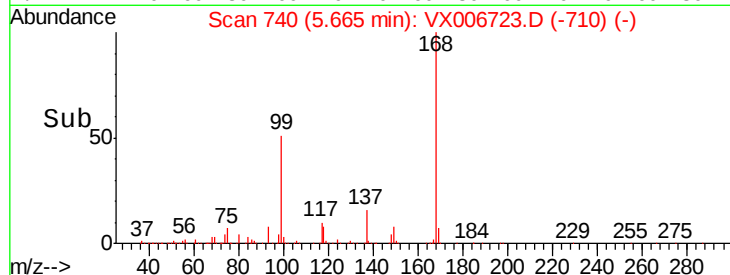
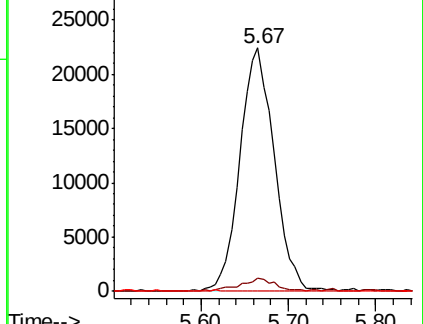
121 0.1 24.0 36.0#



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: 27.115 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006723.D

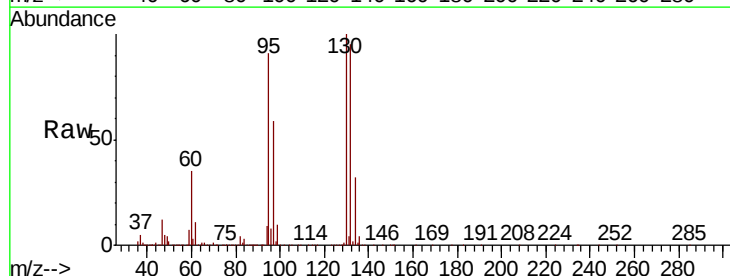
Acq: 21 Dec 2018 15:03

Tgt Ion:130 Resp: 209378

Ion Ratio Lower Upper

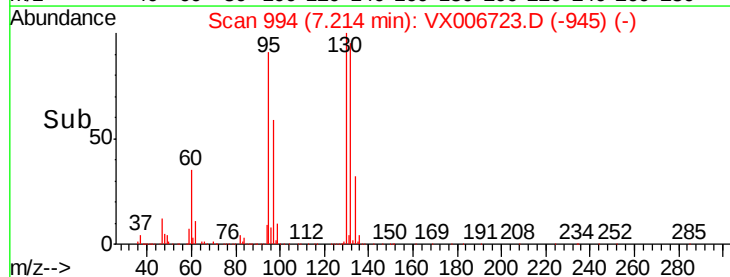
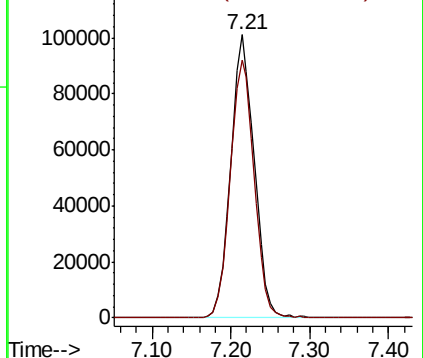
130 100

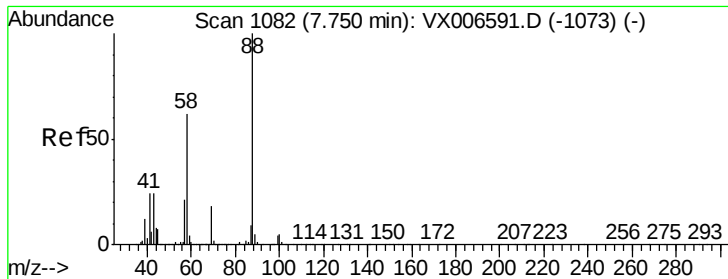
95 90.9 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

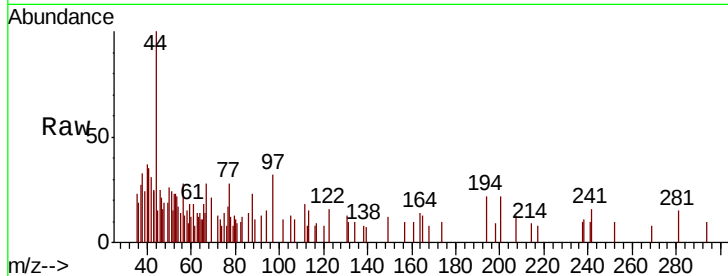




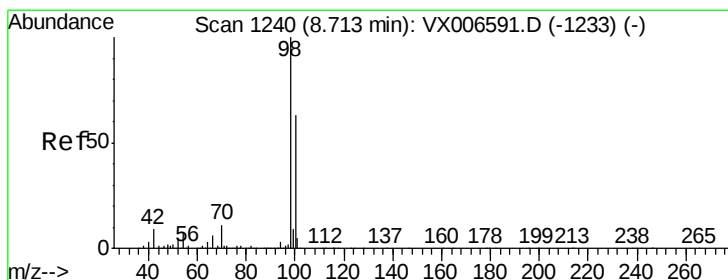
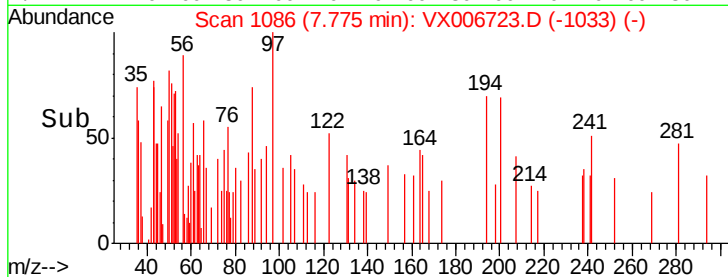
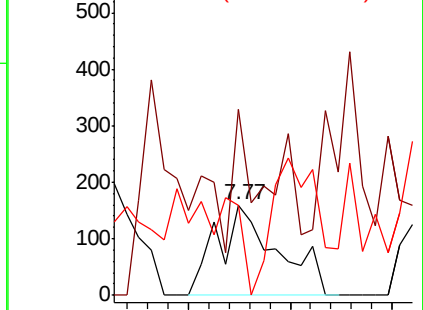
#49
1,4-Dioxane
Concen: Below Cal
RT: 7.77 min Scan# 1086
Delta R.T. 0.02 min
Lab File: VX006723.D
Acq: 21 Dec 2018 15:03

Instrument :
MSVOA_X
ClientSampled :
S49-0494DL

Tot Ion: 88 Resp: 326
Ion Ratio Lower Upper
88 100
43 82.2 22.2 33.4#
58 0.0 51.0 76.4#

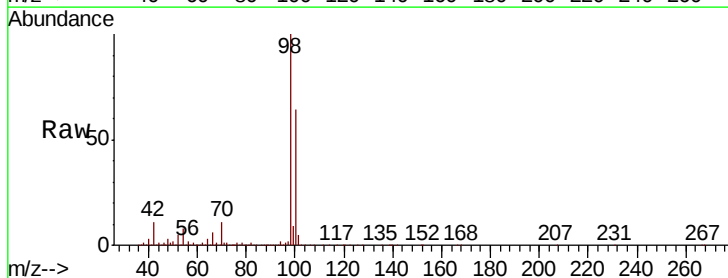


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

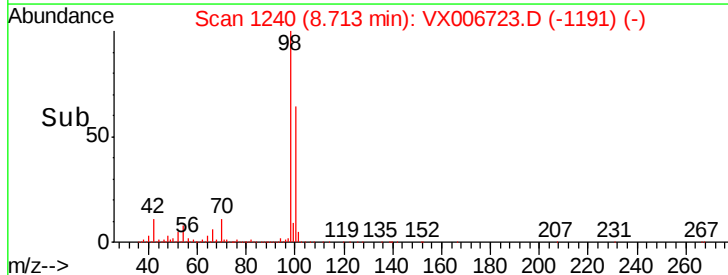
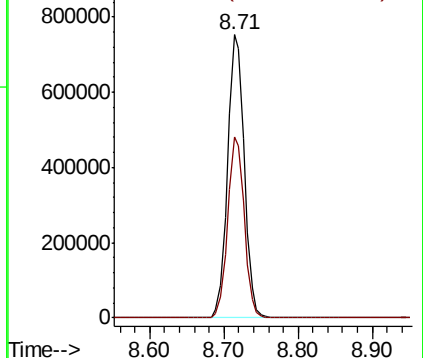


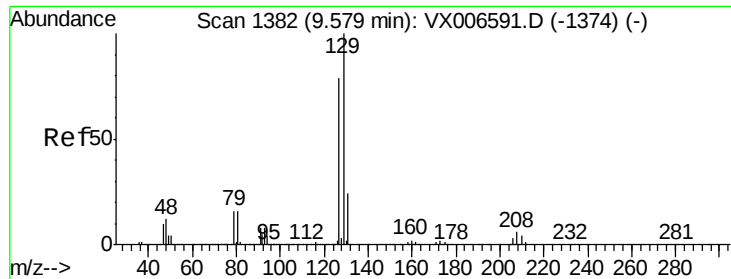
#50
Toluene-d8
Concen: 48.787 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006723.D
Acq: 21 Dec 2018 15:03

Tgt Ion: 98 Resp: 1178693
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.340 ug/l

RT: 9.57 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleID :

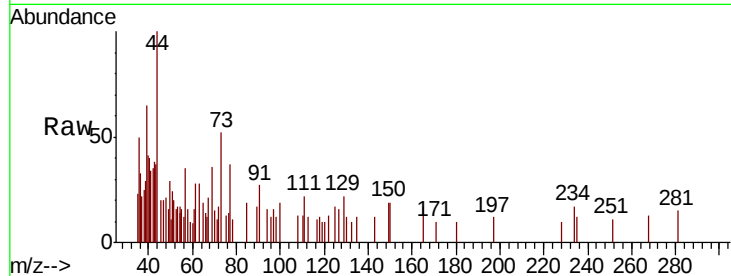
S49-0494DL

Tot Ion:129 Resp: 117

Ion Ratio Lower Upper

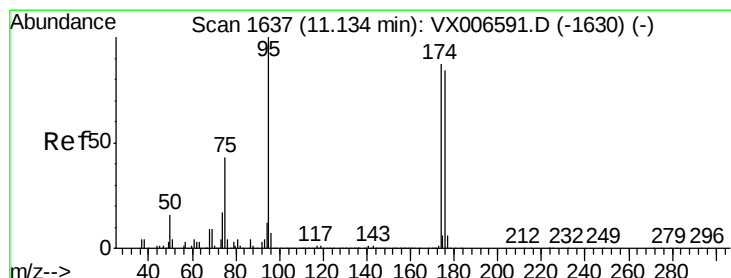
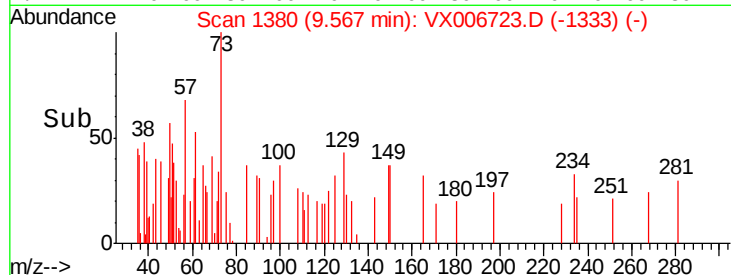
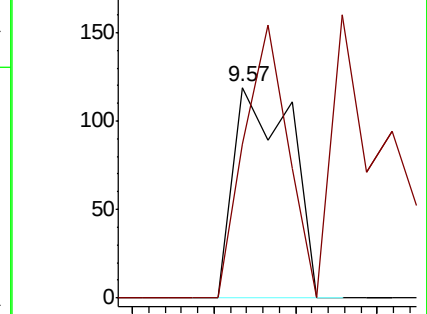
129 100

127 98.3 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: 46.605 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

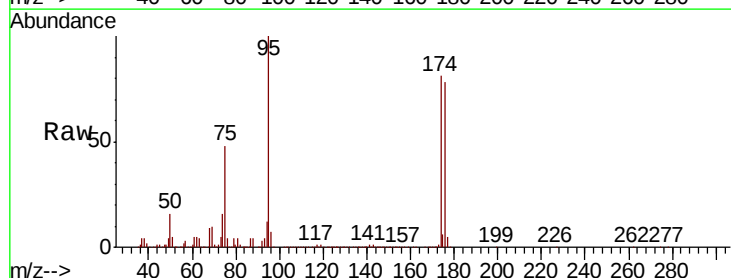
Tgt Ion: 95 Resp: 412381

Ion Ratio Lower Upper

95 100

174 88.7 0.0 182.2

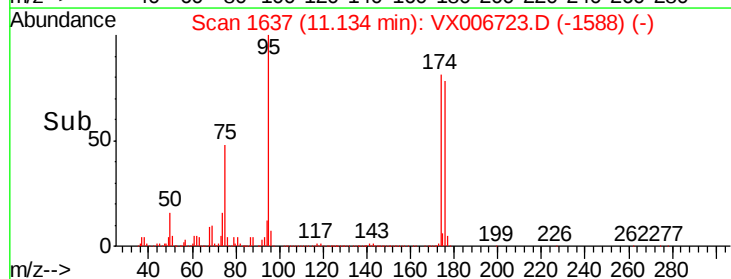
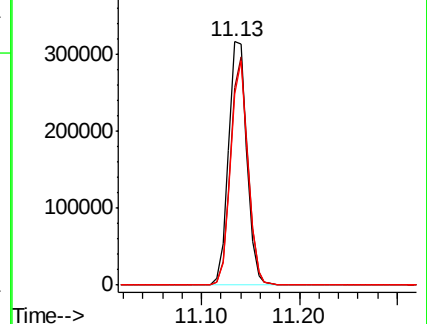
176 86.9 0.0 178.8

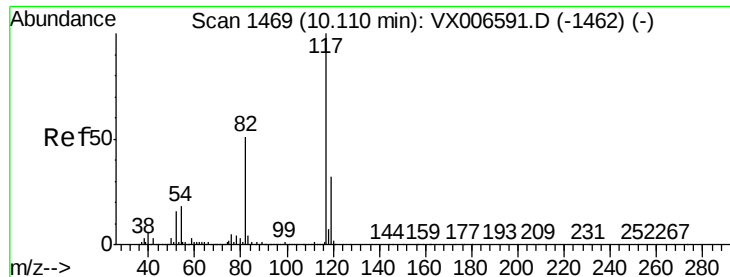


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampled :

S49-0494DL

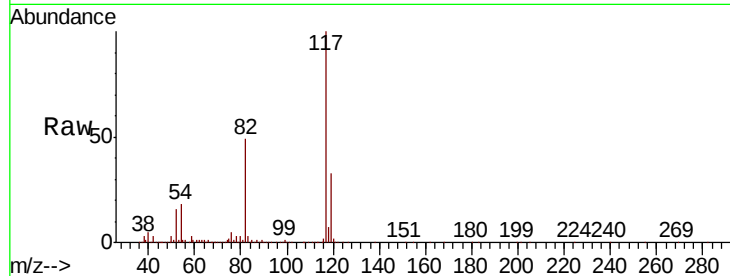
Tot Ion:117 Resp: 905810

Ion Ratio Lower Upper

117 100

82 49.4 41.0 61.6

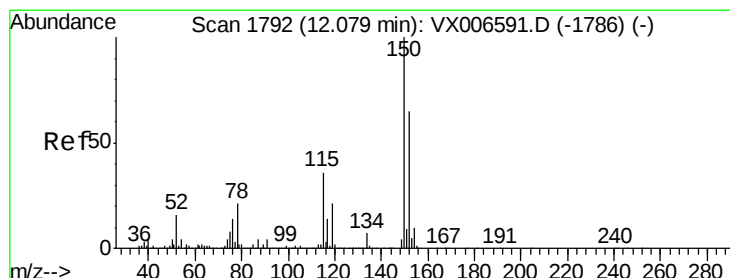
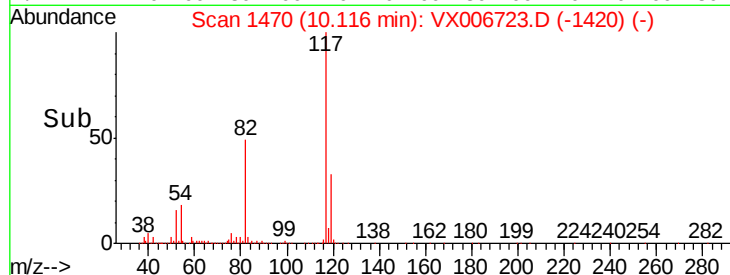
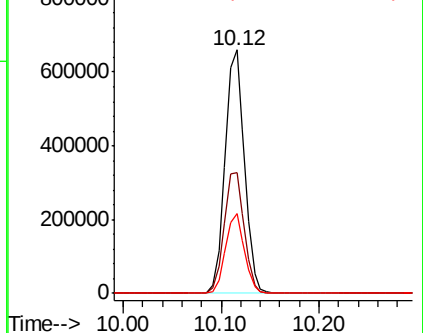
119 32.5 25.4 38.0



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: VX006723.D

Acq: 21 Dec 2018 15:03

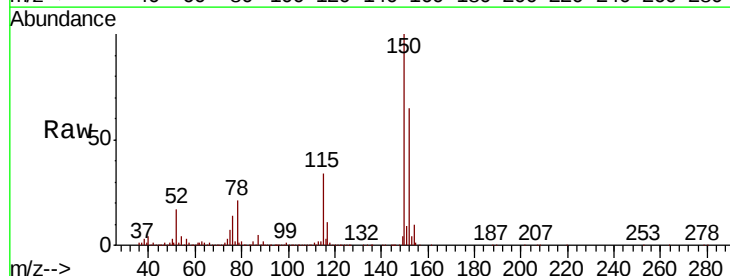
Tgt Ion:152 Resp: 427278

Ion Ratio Lower Upper

152 100

115 54.2 39.1 117.2

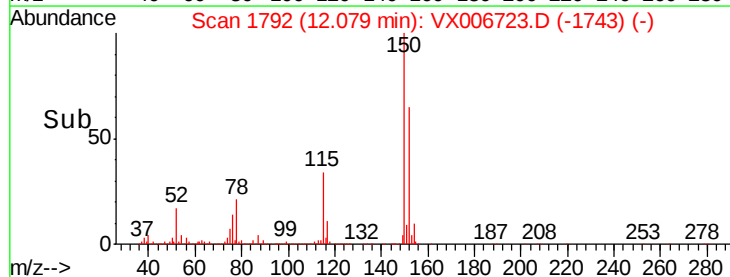
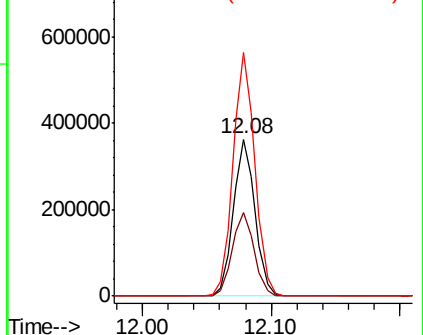
150 156.2 0.0 344.8

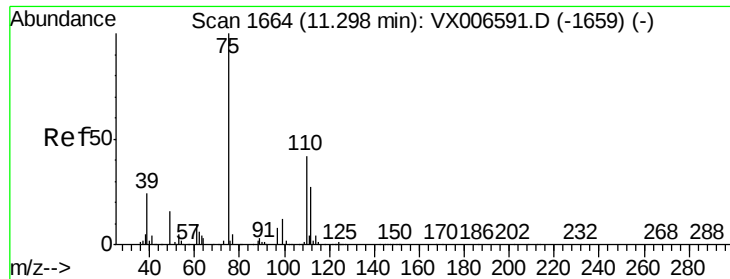


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

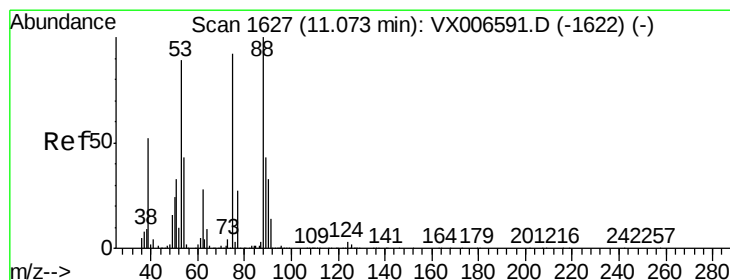
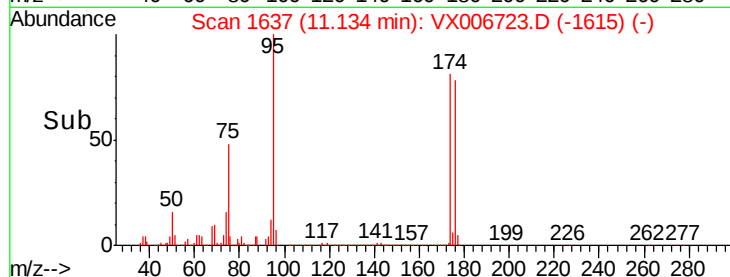
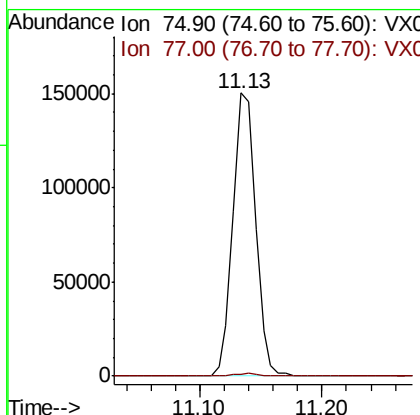
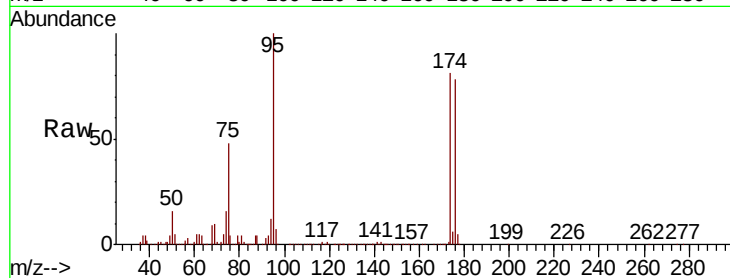




#76
 1,2,3-Trichloropropane
 Concen: 24.349 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006723.D
 Acq: 21 Dec 2018 15:03

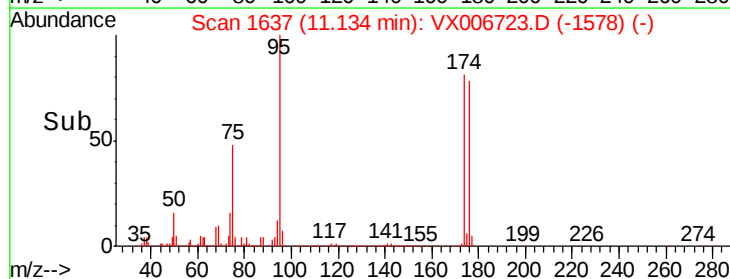
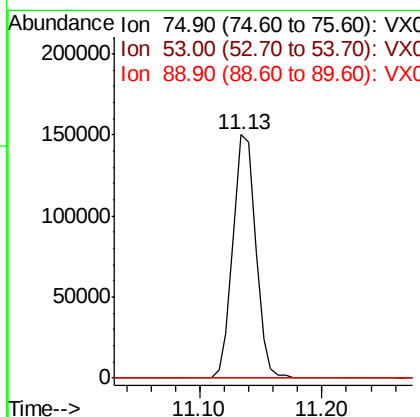
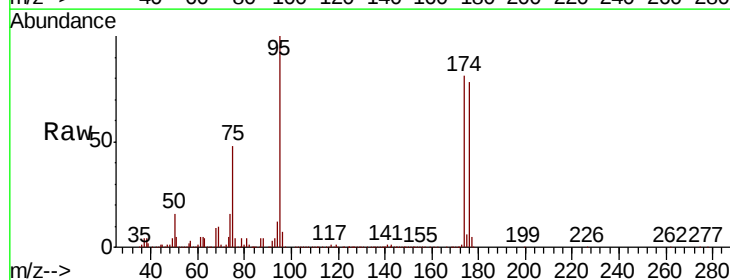
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0494DL

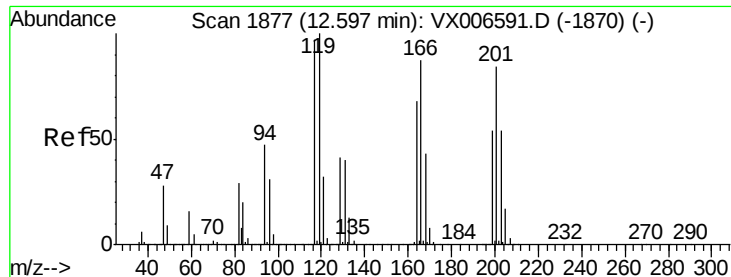
Tot Ion: 75 Resp: 193349
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.062 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006723.D
 Acq: 21 Dec 2018 15:03

Tgt Ion: 75 Resp: 193349
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.298 ug/l

RT: 12.51 min Scan# 1862

Delta R.T. -0.09 min

Lab File: VX006723.D

Acq: 21 Dec 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

S49-0494DL

Tot Ion:117 Resp: 22

Ion Ratio Lower Upper

117 100

201 90.9 42.9 128.7

