

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006693.D
 Acq On : 20 Dec 2018 23:47
 Operator : JC/MD
 Sample : J6514-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2018-2

Quant Time: Dec 21 03:37:45 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	655585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1012538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	924989	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	437133	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	348069	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
35) Dibromofluoromethane	5.51	113	308001	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	8.71	98	1200215	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
62) 4-Bromofluorobenzene	11.13	95	426567	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	

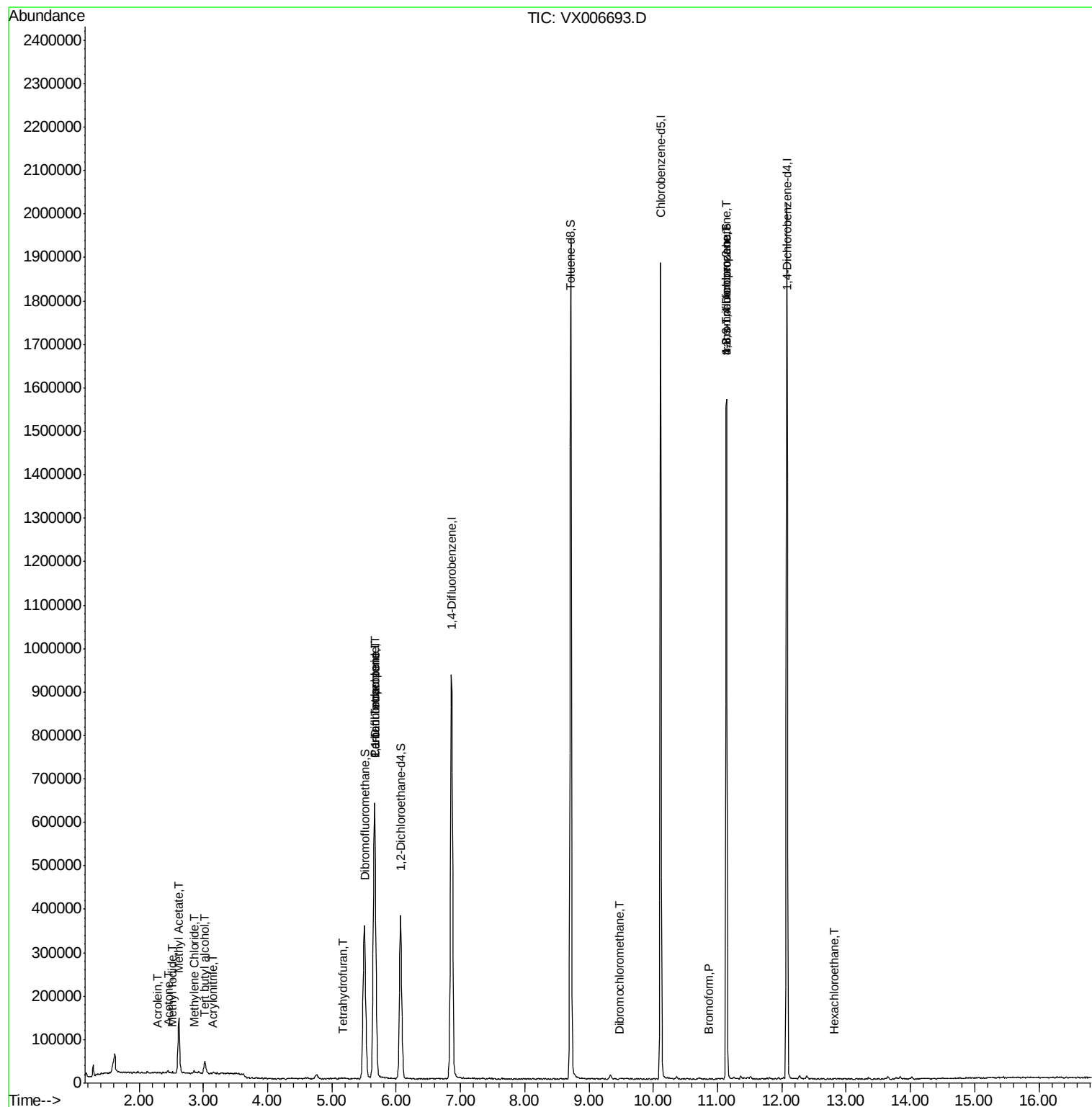
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1545	Below Cal	#	35
10) Methyl Iodide	2.52	142	2056	0.233	ug/l #	66
11) Tert butyl alcohol	3.02	59	16374	10.384	ug/l #	79
13) Acrolein	2.29	56	282	0.265	ug/l	90
15) Acrylonitrile	3.15	53	1241	0.354	ug/l #	79
16) Acetone	2.45	43	5390	1.660	ug/l	93
18) Methyl Acetate	2.62	43	37017	3.878	ug/l #	54
20) Methylene Chloride	2.87	84	2475	0.369	ug/l #	80
28) Bromochloromethane	5.01	49	267	Below Cal	#	45
29) Tetrahydrofuran	5.17	42	982	0.327	ug/l #	67
36) 1,1-Dichloropropene	5.67	75	42270	5.040	ug/l #	50
38) Carbon Tetrachloride	5.67	117	60790	7.459	ug/l #	14
49) 1,4-Dioxane	7.76	88	109	Below Cal	#	1
60) Dibromochloromethane	9.47	129	48	2.331	ug/l	94
71) Bromoform	10.86	173	116	4.479	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	198837	24.476	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	198837	72.415	ug/l #	10
90) Hexachloroethane	12.81	117	41	3.302	ug/l	87

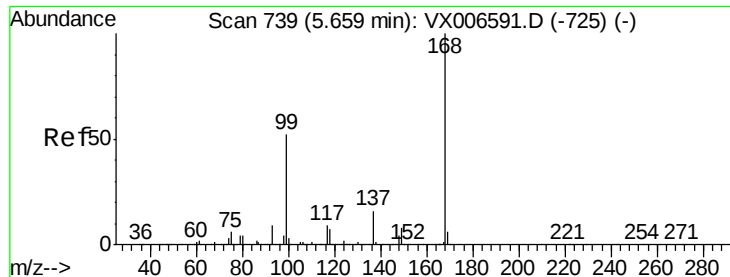
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006693.D

Acq: 20 Dec 2018 23:47

Instrument :

MSVOA_X

ClientSampled :

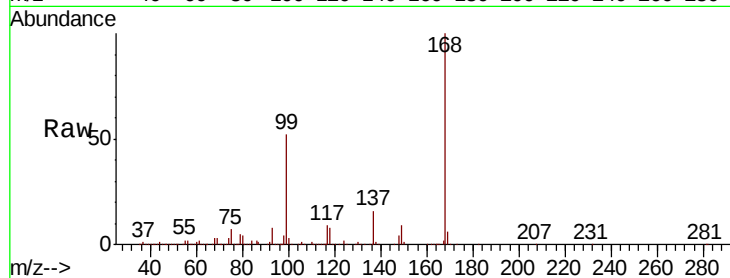
S49-TB-2018-2

Tot Ion:168 Resp: 655585

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

250000

200000

150000

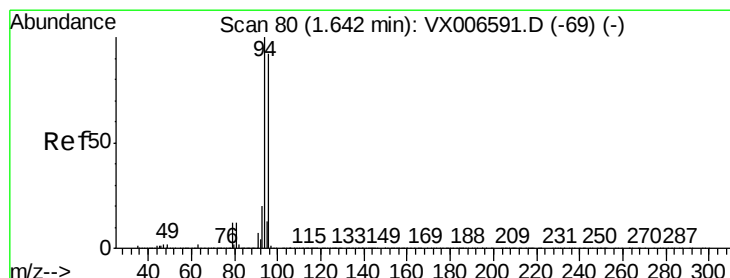
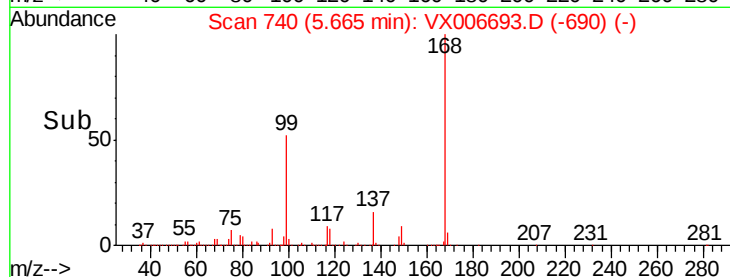
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006693.D

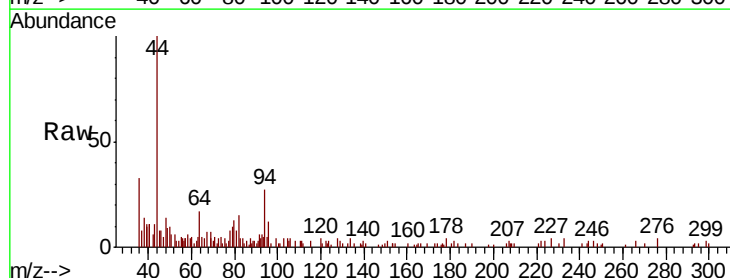
Acq: 20 Dec 2018 23:47

Tgt Ion: 94 Resp: 1545

Ion Ratio Lower Upper

94 100

96 29.5 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

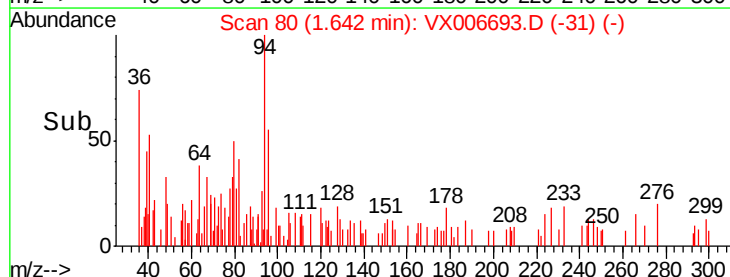
400

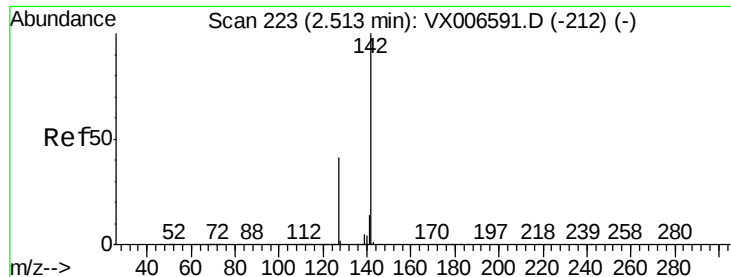
200

0

1.60 1.65

Time-->

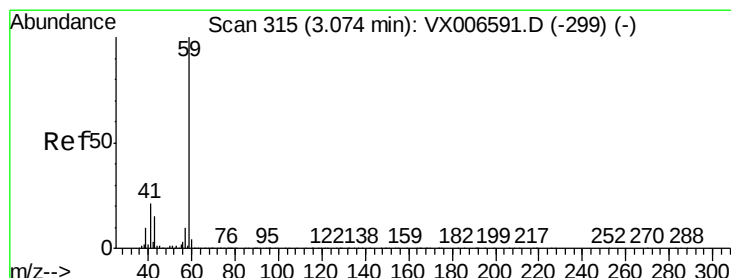
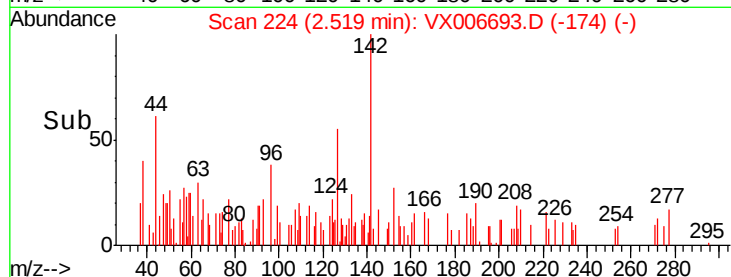
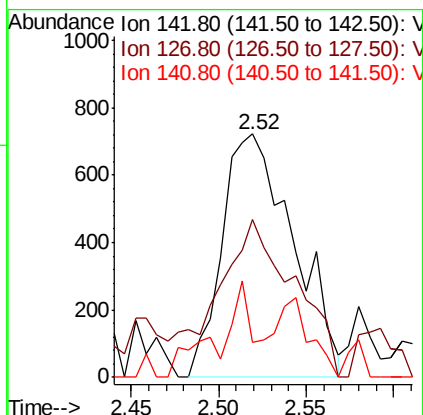
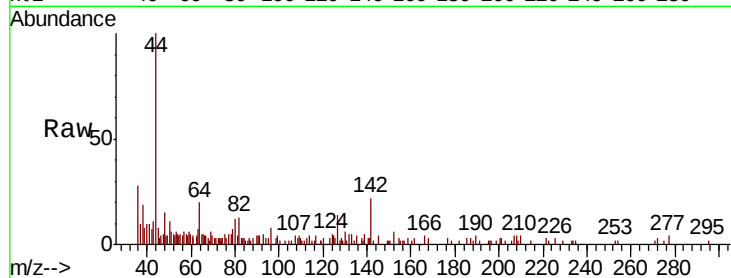




#10
Methyl Iodide
Concen: 0.233 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

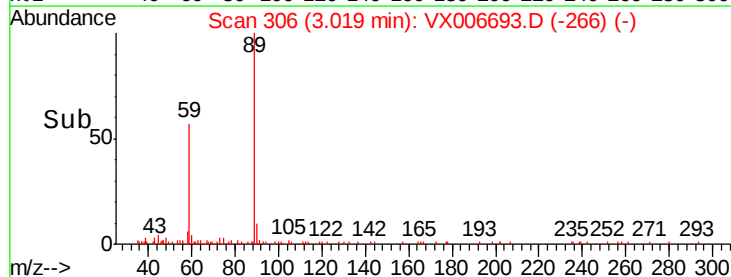
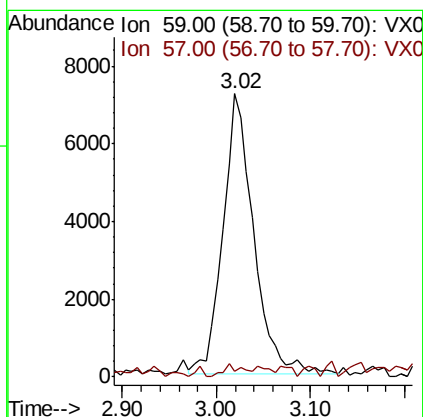
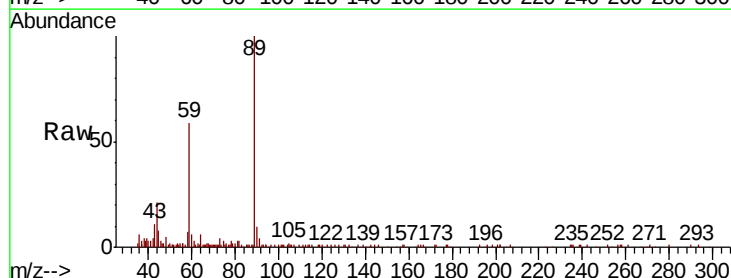
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2018-2

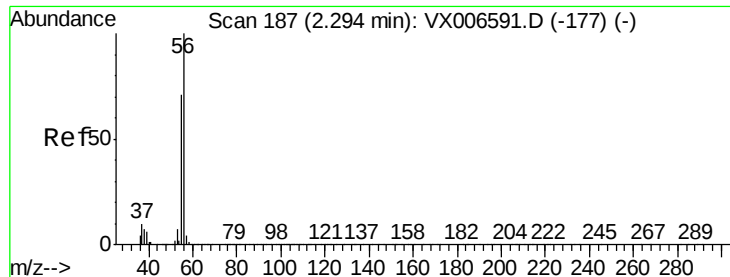
Tot Ion:142 Resp: 2056
Ion Ratio Lower Upper
142 100
127 68.2 33.9 50.9#
141 19.7 11.4 17.0#



#11
Tert butyl alcohol
Concen: 10.384 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

Tgt Ion: 59 Resp: 16374
Ion Ratio Lower Upper
59 100
57 2.8 8.5 12.7#

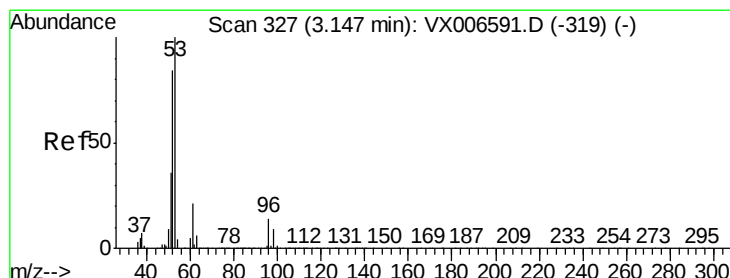
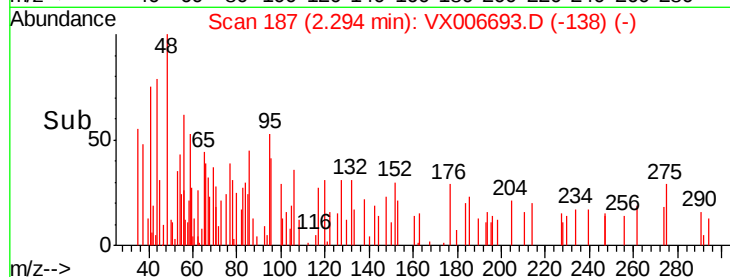
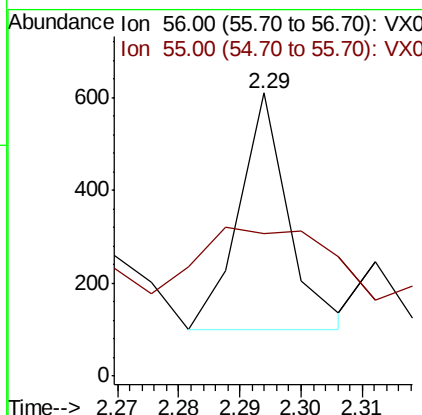
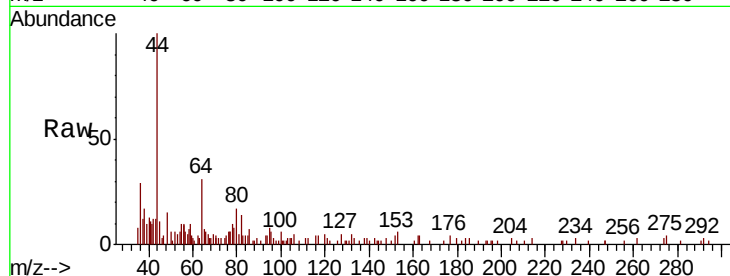




#13
Acrolein
Concen: 0.265 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

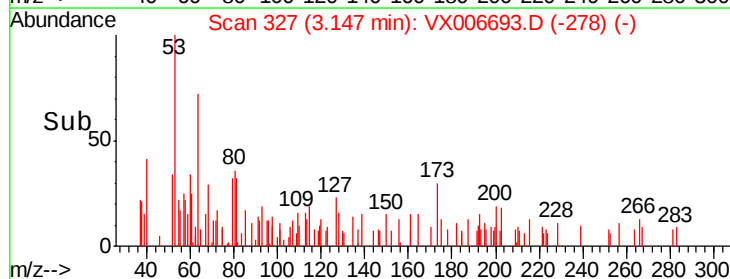
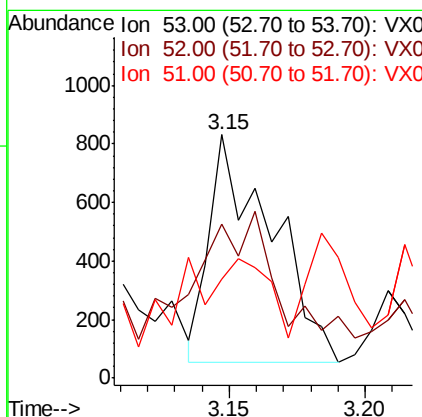
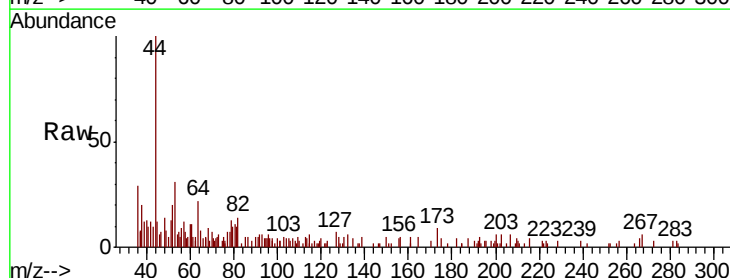
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2018-2

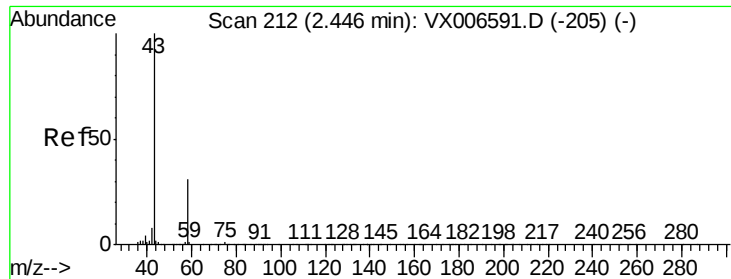
Tot Ion: 56 Resp: 282
Ion Ratio Lower Upper
56 100
55 80.9 58.2 87.4



#15
Acrylonitrile
Concen: 0.354 ug/l
RT: 3.15 min Scan# 327
Delta R.T. -0.00 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

Tgt Ion: 53 Resp: 1241
Ion Ratio Lower Upper
53 100
52 79.8 66.0 99.0
51 0.0 28.6 42.8#





#16

Acetone

Concen: 1.660 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006693.D

Acq: 20 Dec 2018 23:47

Instrument :

MSVOA_X

ClientSampleId :

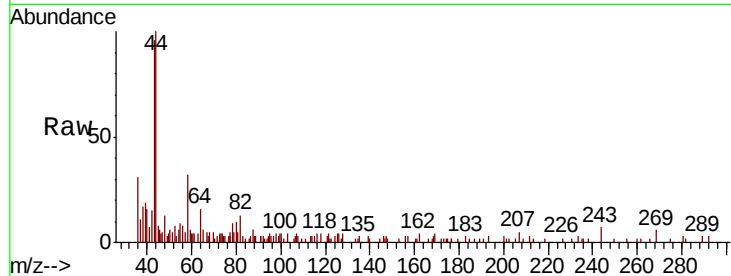
S49-TB-2018-2

Tot Ion: 43 Resp: 5390

Ion Ratio Lower Upper

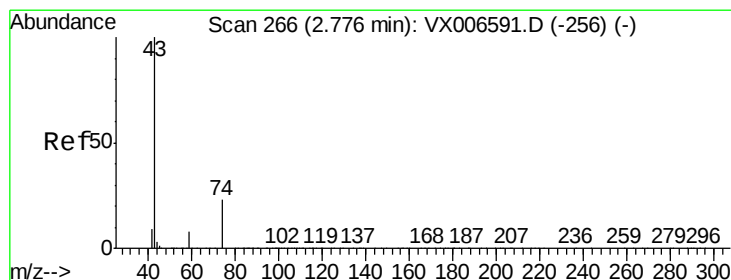
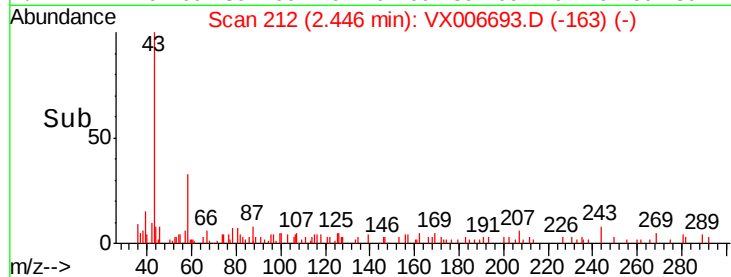
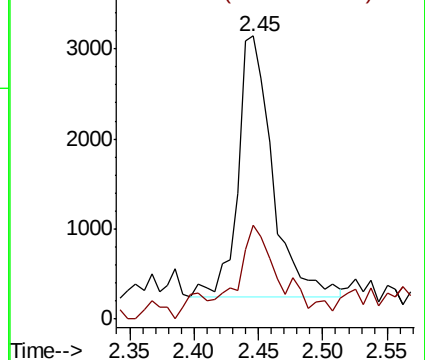
43 100

58 27.6 25.0 37.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 3.878 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.16 min

Lab File: VX006693.D

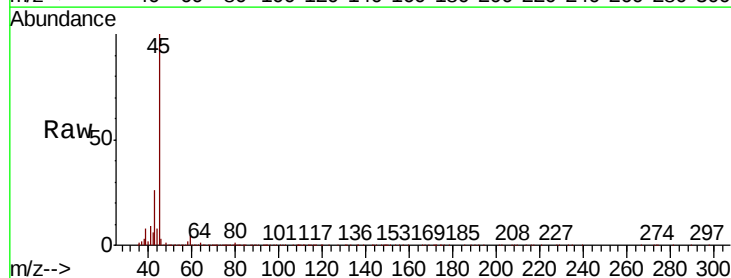
Acq: 20 Dec 2018 23:47

Tgt Ion: 43 Resp: 37017

Ion Ratio Lower Upper

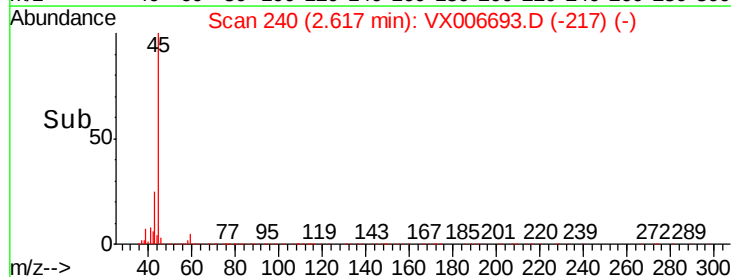
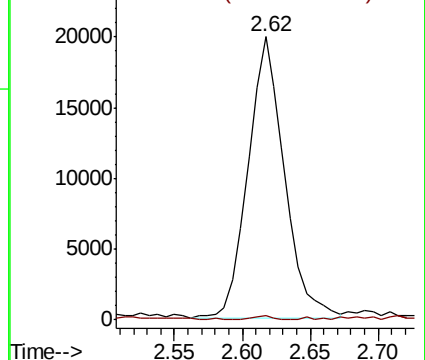
43 100

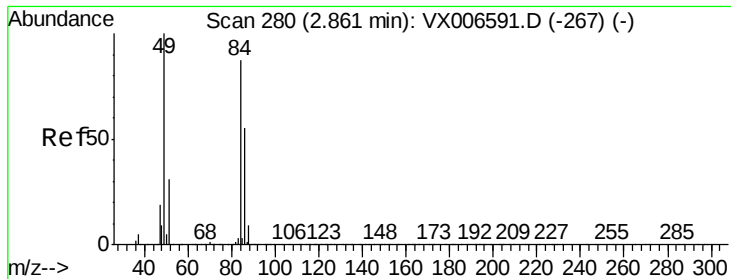
74 0.9 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

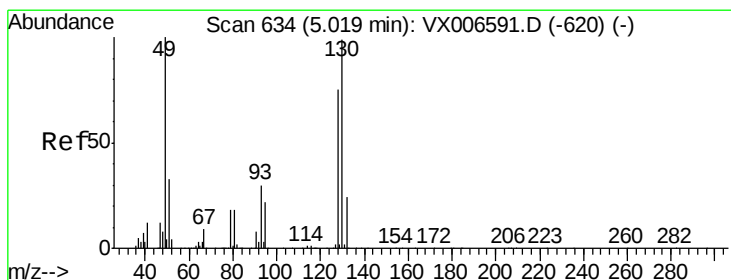
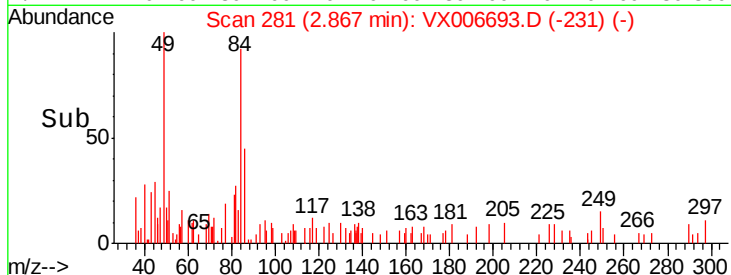
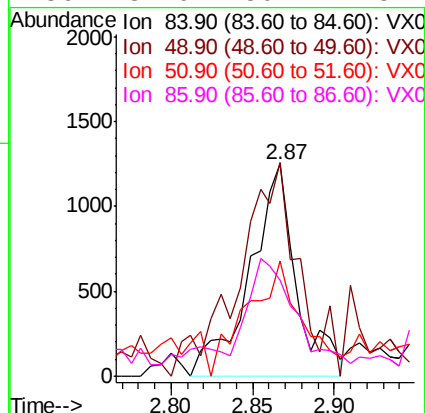
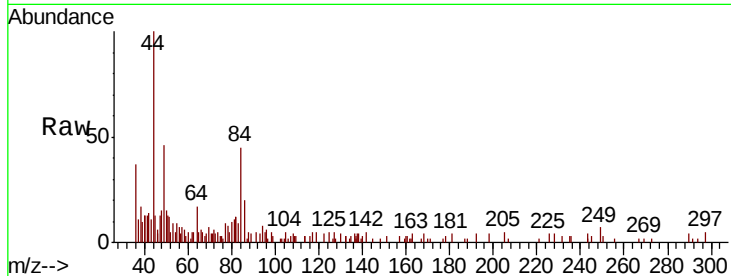




#20
Methvlene Chloride
Concen: 0.369 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

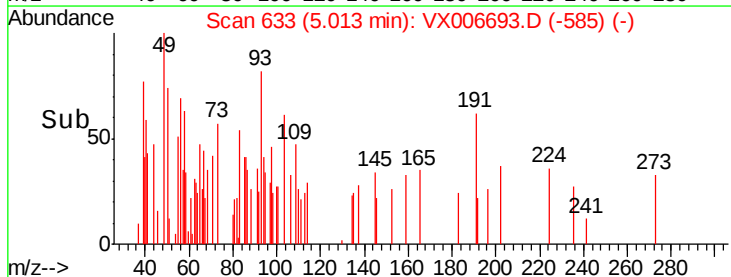
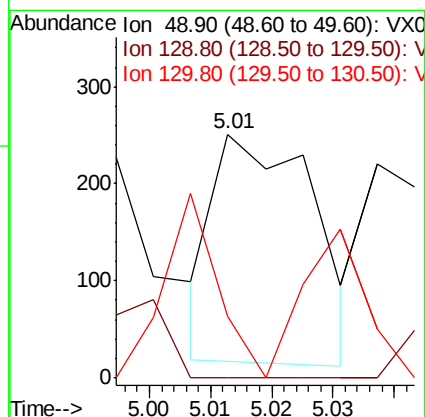
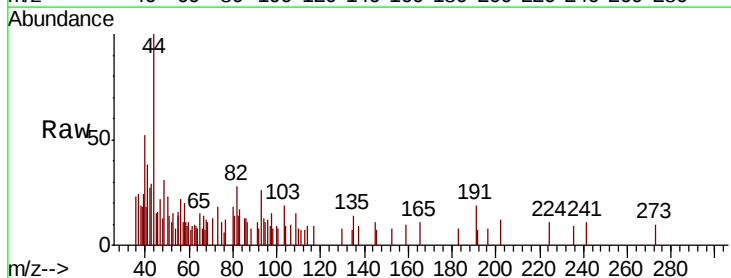
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2018-2

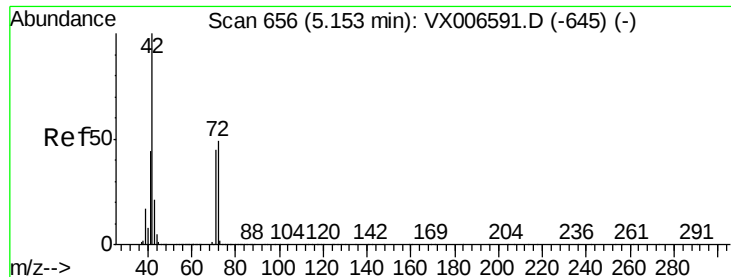
Tot Ion: 84 Resp: 2475
Ion Ratio Lower Upper
84 100
49 100.6 91.8 137.6
51 45.0 28.5 42.7#
86 34.9 50.2 75.2#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

Tgt Ion: 49 Resp: 267
Ion Ratio Lower Upper
49 100
129 19.9 0.0 5.4#
130 43.1 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.327 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006693.D

Acq: 20 Dec 2018 23:47

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2018-2

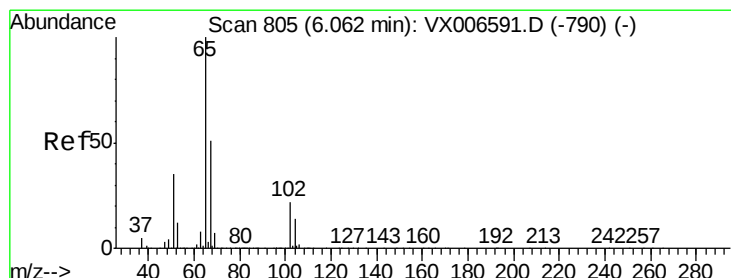
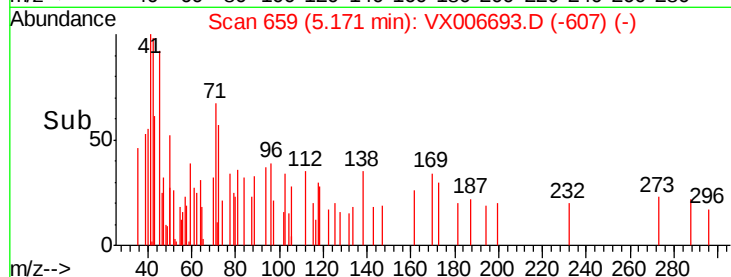
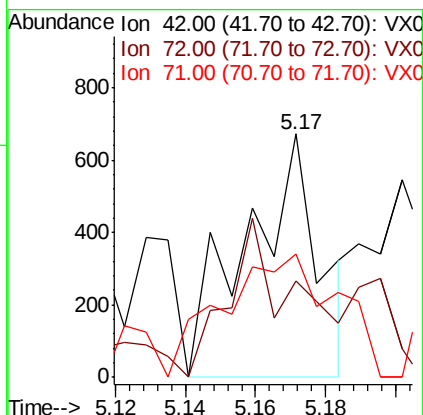
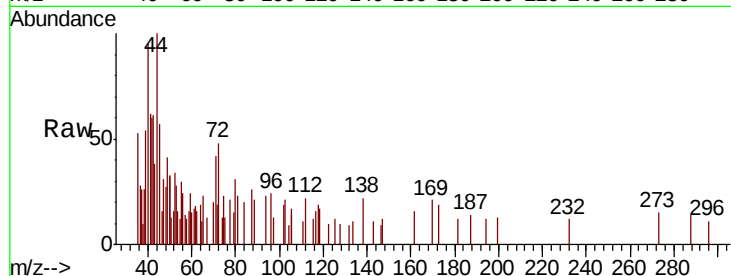
Tot Ion: 42 Resp: 982

Ion Ratio Lower Upper

42 100

72 59.7 38.9 58.3#

71 78.5 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 49.262 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006693.D

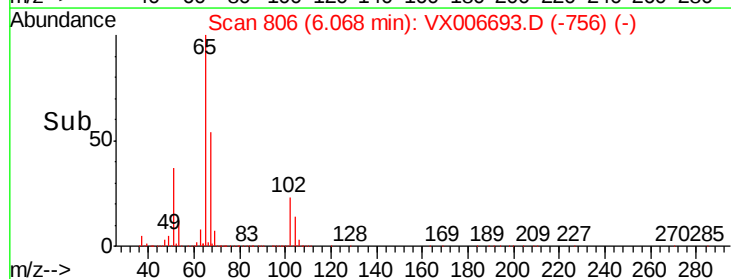
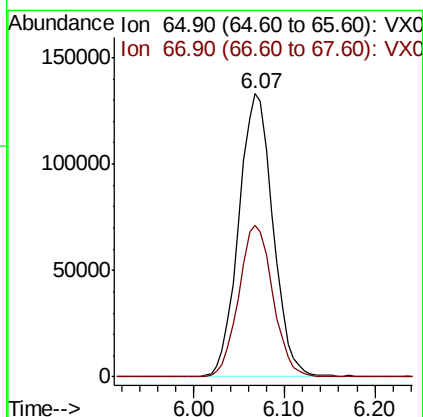
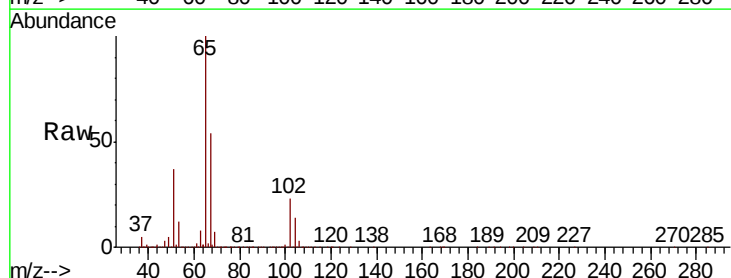
Acq: 20 Dec 2018 23:47

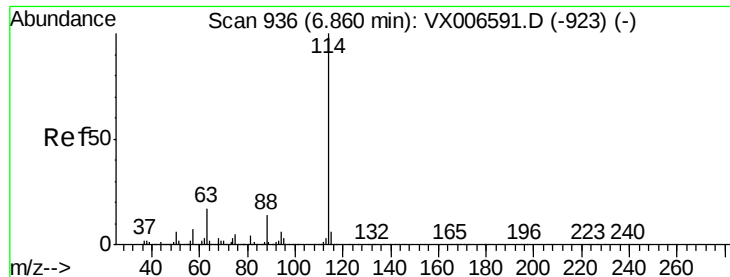
Tgt Ion: 65 Resp: 348069

Ion Ratio Lower Upper

65 100

67 53.4 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: VX006693.D

Acq: 20 Dec 2018 23:47

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2018-2

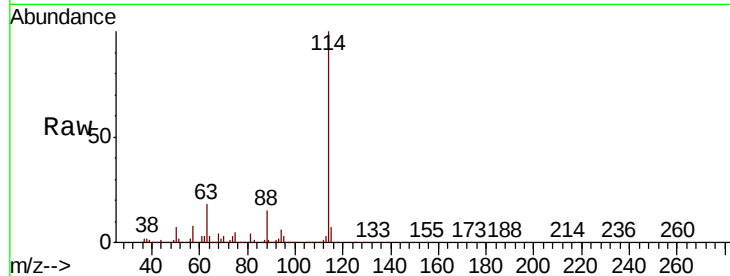
Tot Ion:114 Resp: 1012538

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

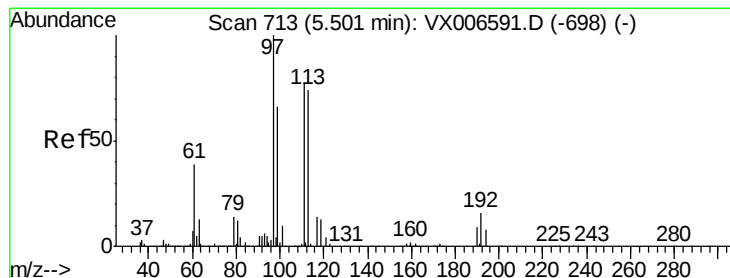
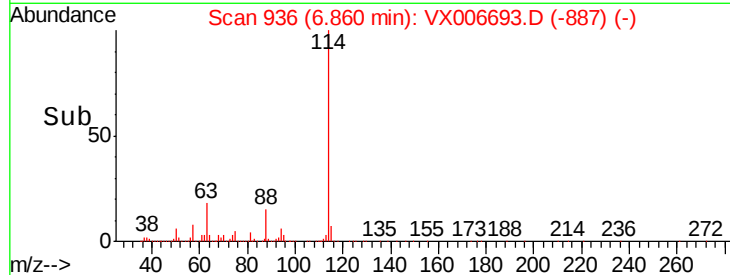
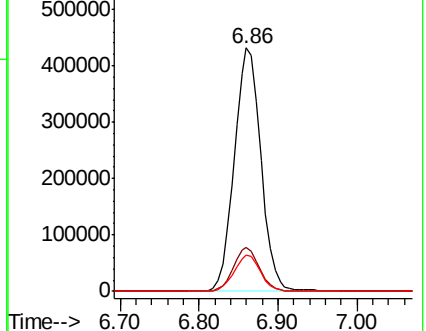
88 15.0 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.102 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006693.D

Acq: 20 Dec 2018 23:47

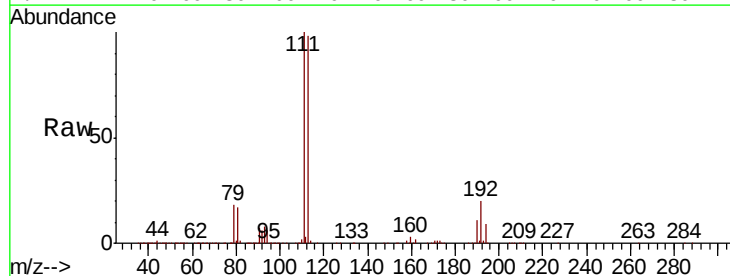
Tgt Ion:113 Resp: 308001

Ion Ratio Lower Upper

113 100

111 100.5 81.6 122.4

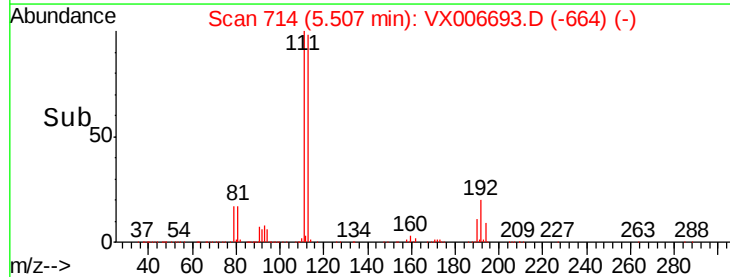
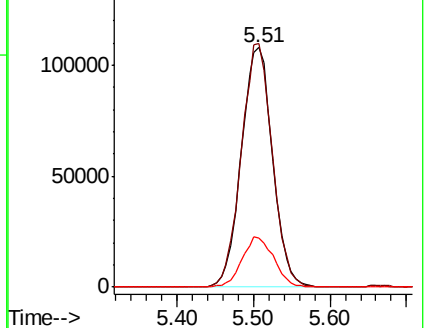
192 21.0 16.7 25.1

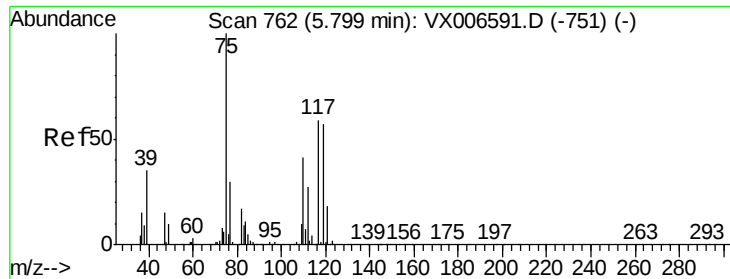


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

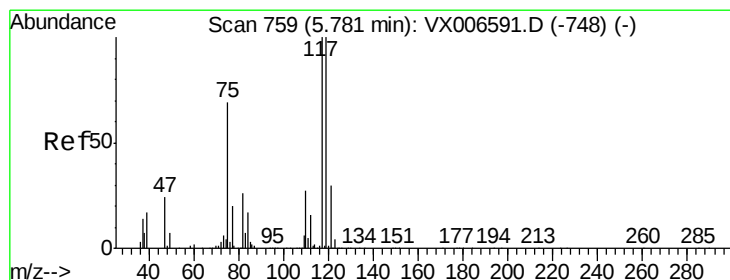
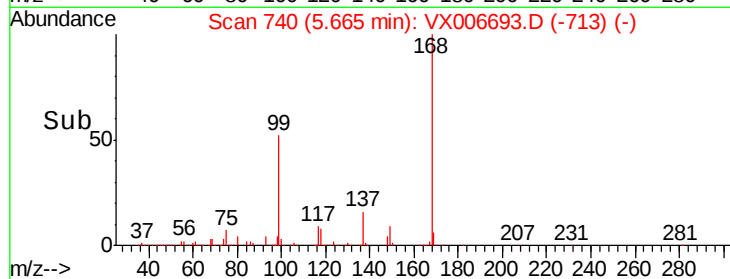
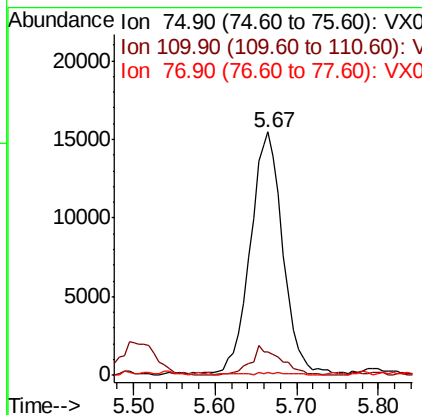
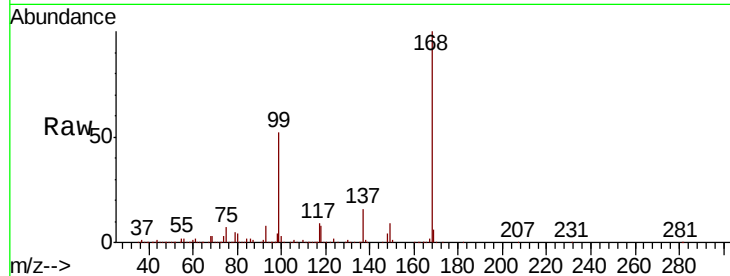




#36
 1,1-Dichloropropene
 Concen: 5.040 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006693.D
 Acq: 20 Dec 2018 23:47

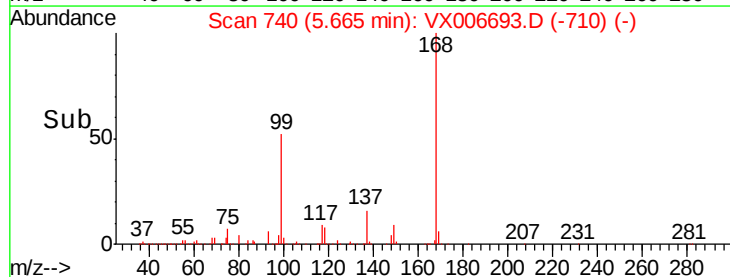
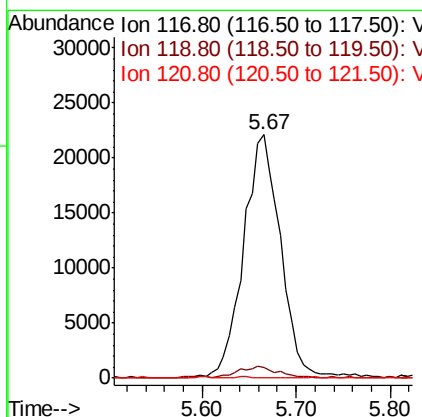
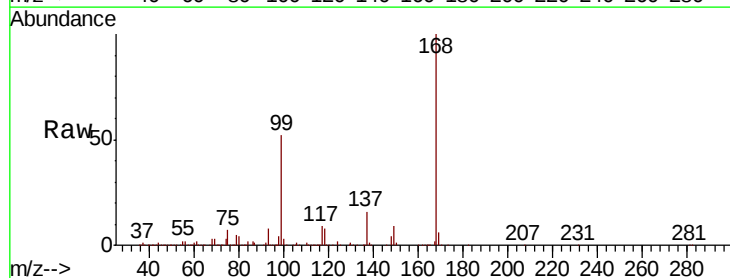
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2018-2

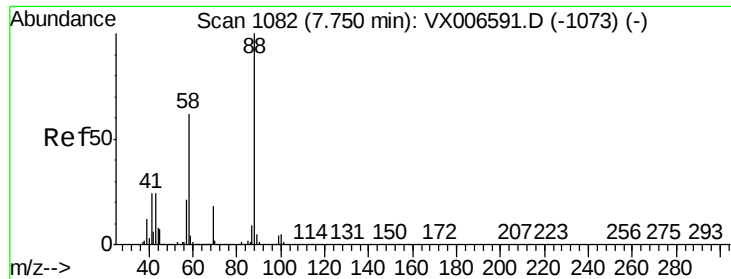
Tot Ion: 75 Resp: 42270
 Ion Ratio Lower Upper
 75 100
 110 11.5 20.2 60.5#
 77 0.7 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.459 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006693.D
 Acq: 20 Dec 2018 23:47

Tgt Ion: 117 Resp: 60790
 Ion Ratio Lower Upper
 117 100
 119 4.2 79.4 119.2#
 121 0.0 24.0 36.0#

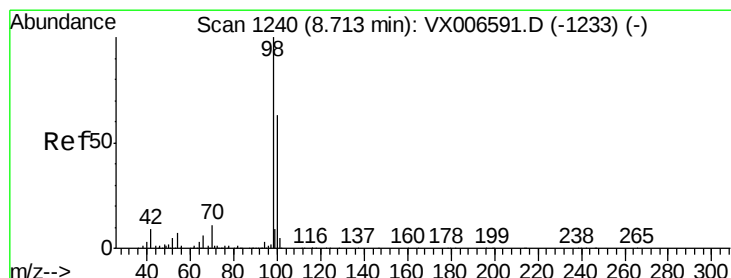
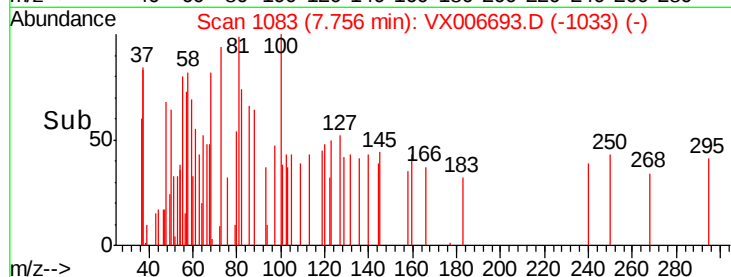
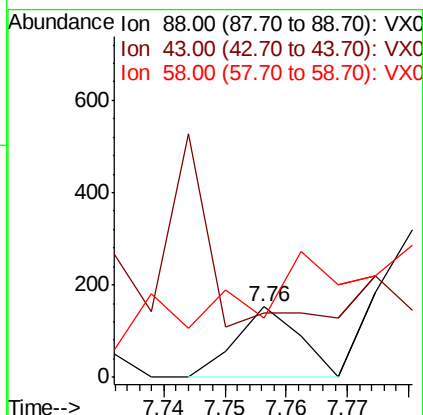
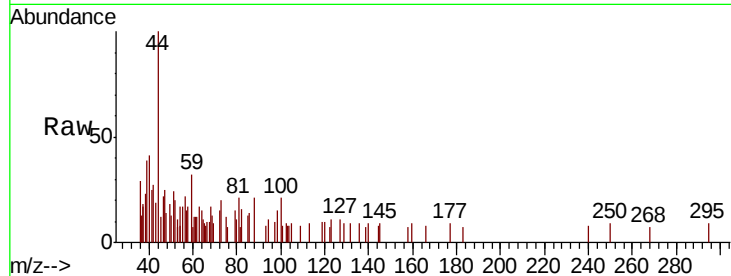




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

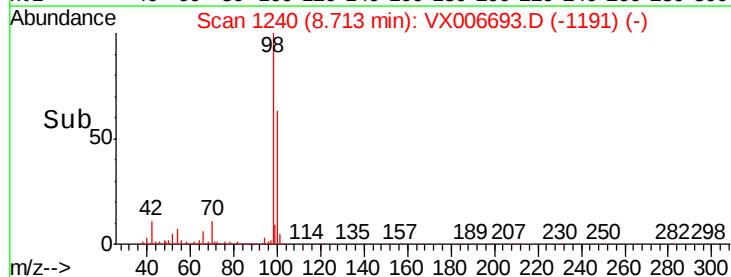
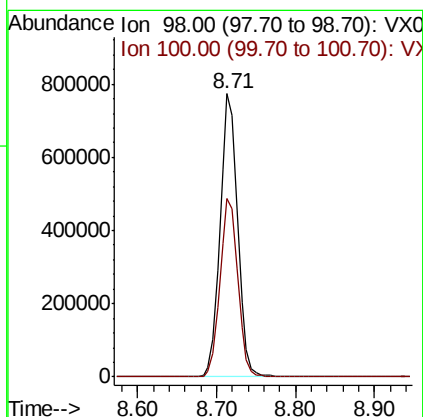
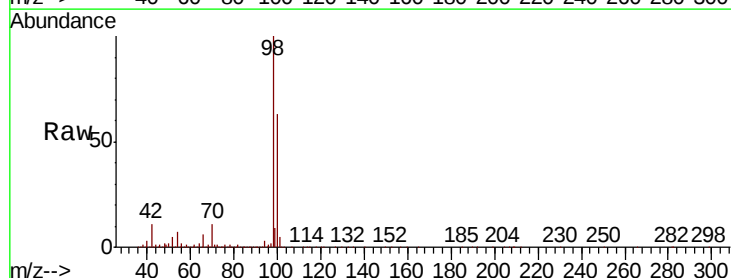
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2018-2

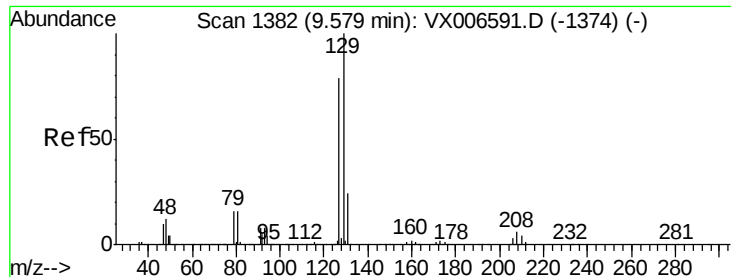
Tot Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 182.6 22.2 33.4#
58 0.0 51.0 76.4#



#50
Toluene-d8
Concen: 49.719 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

Tgt Ion: 98 Resp: 1200215
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0

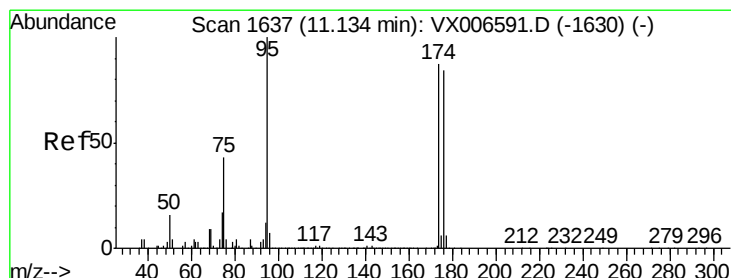
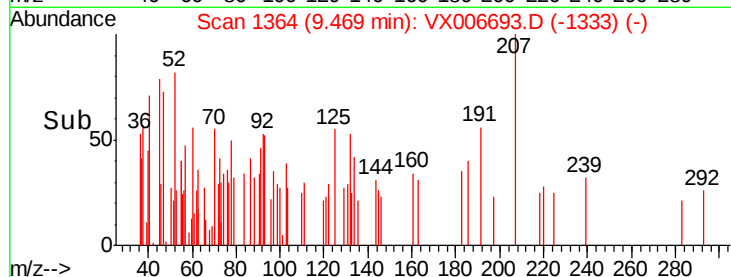
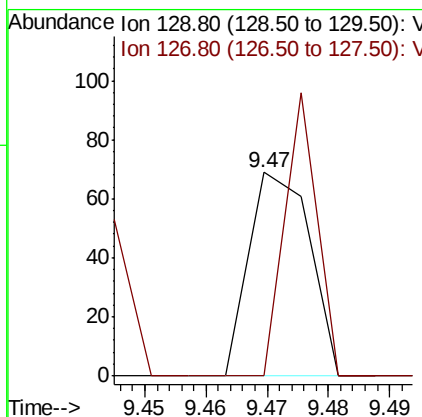
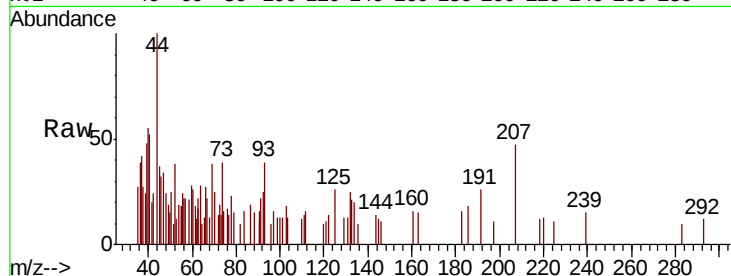




#60
 Dibromochloromethane
 Concen: 2.331 ug/l
 RT: 9.47 min Scan# 1364
 Delta R.T. -0.11 min
 Lab File: VX006693.D
 Acq: 20 Dec 2018 23:47

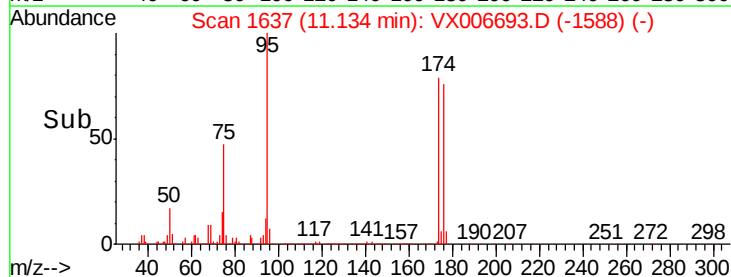
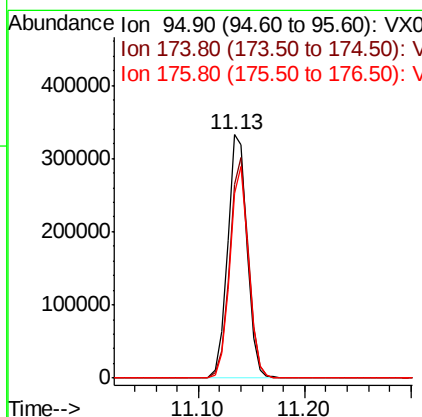
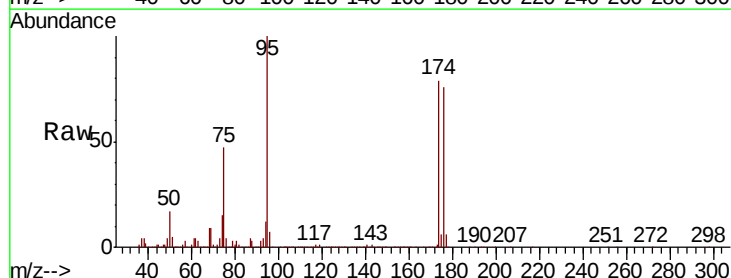
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2018-2

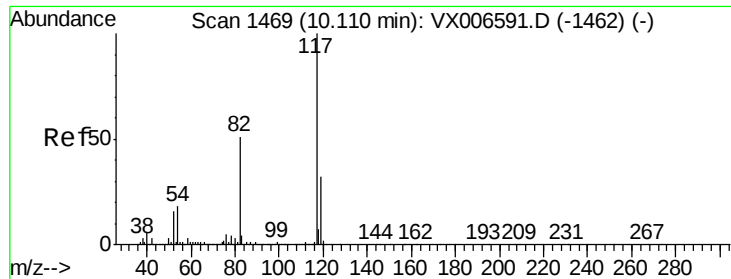
Tot Ion:129 Resp: 48
 Ion Ratio Lower Upper
 129 100
 127 72.9 39.3 117.8



#62
 4-Bromofluorobenzene
 Concen: 48.249 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX006693.D
 Acq: 20 Dec 2018 23:47

Tgt Ion: 95 Resp: 426567
 Ion Ratio Lower Upper
 95 100
 174 88.2 0.0 182.2
 176 84.0 0.0 178.8

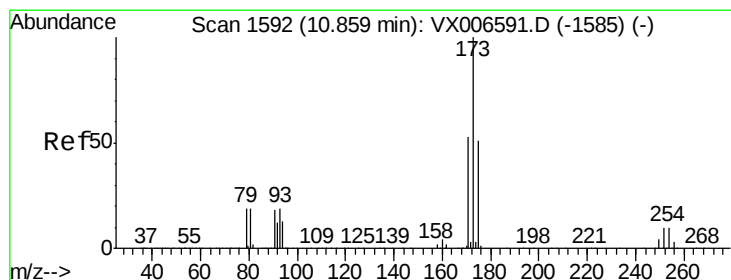
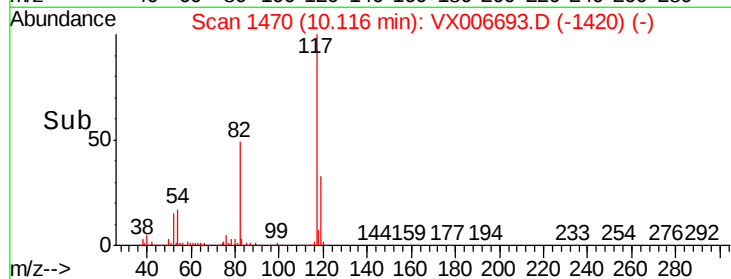
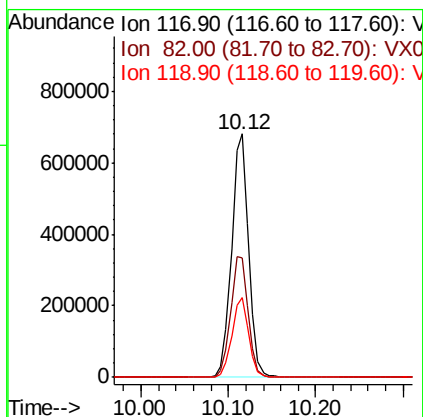
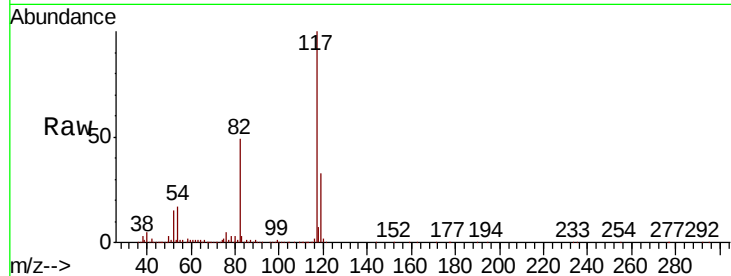




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

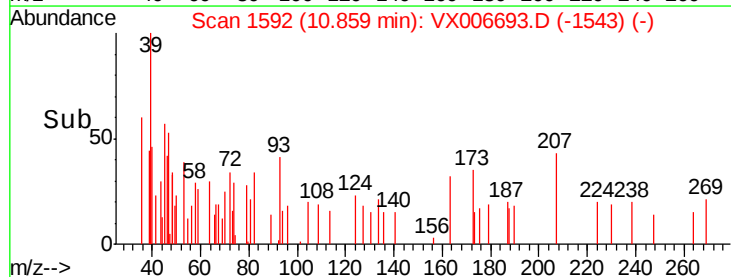
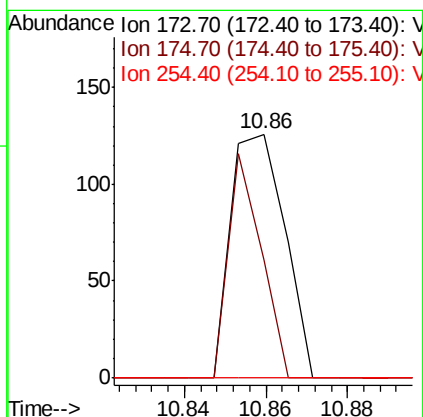
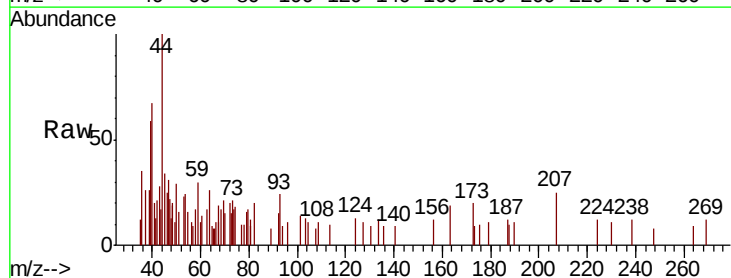
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2018-2

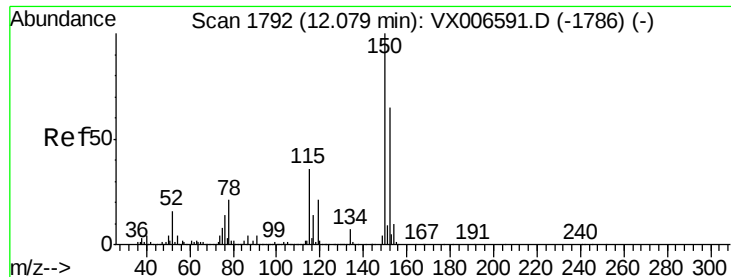
Tot Ion:117 Resp: 924989
Ion Ratio Lower Upper
117 100
82 49.3 41.0 61.6
119 32.6 25.4 38.0



#71
Bromoform
Concen: 4.479 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VX006693.D
Acq: 20 Dec 2018 23:47

Tgt Ion:173 Resp: 116
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006693.D

Acq: 20 Dec 2018 23:47

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2018-2

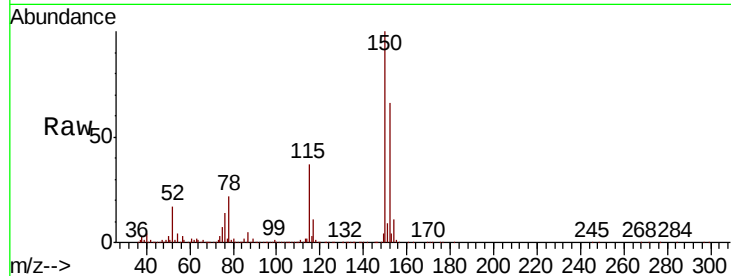
Tot Ion:152 Resp: 437133

Ion Ratio Lower Upper

152 100

115 56.6 39.1 117.2

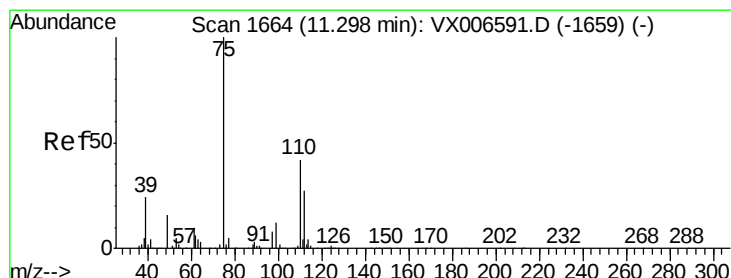
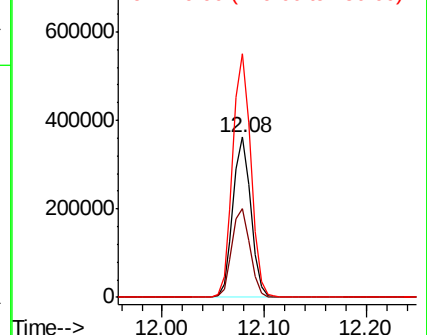
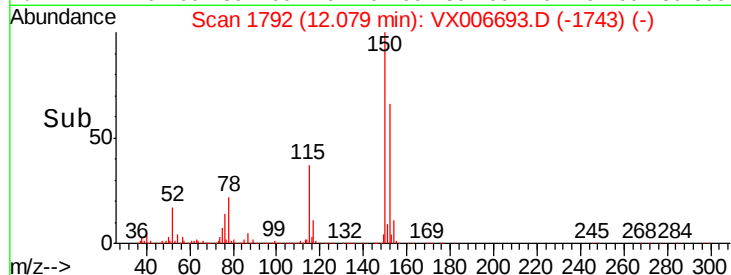
150 154.7 0.0 344.8



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: 24.476 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006693.D

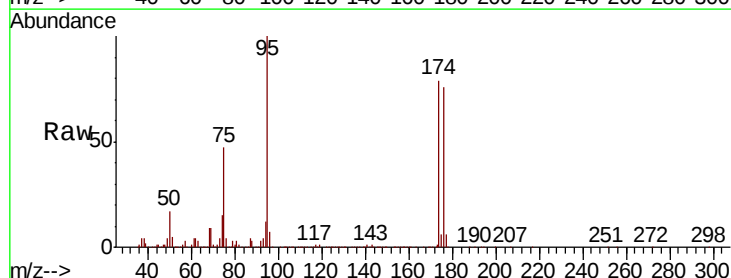
Acq: 20 Dec 2018 23:47

Tgt Ion: 75 Resp: 198837

Ion Ratio Lower Upper

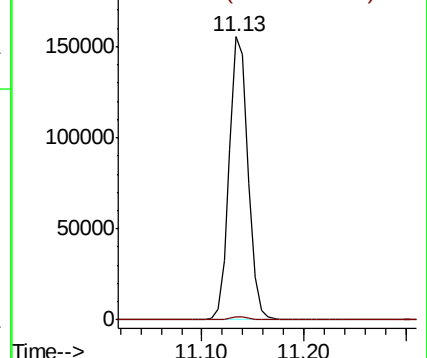
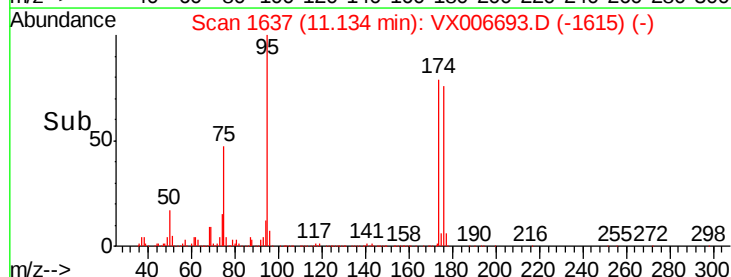
75 100

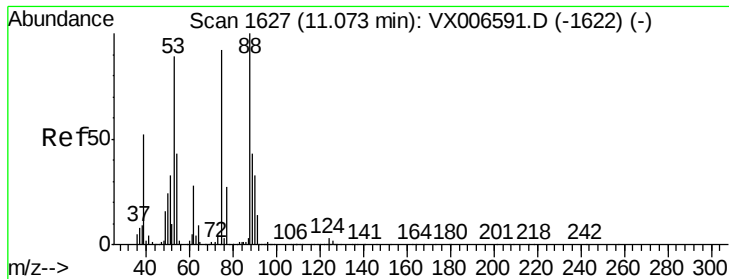
77 1.2 18.5 55.5#



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: 72.415 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006693.D

Acq: 20 Dec 2018 23:47

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2018-2

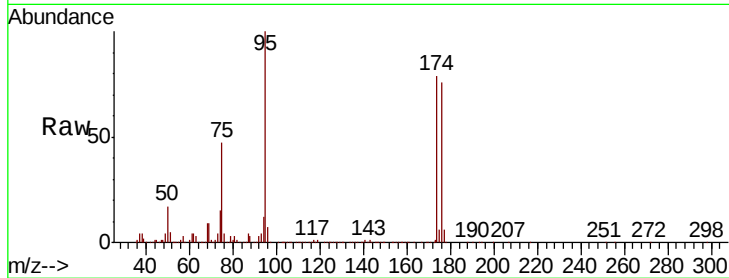
Tot Ion: 75 Resp: 198837

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

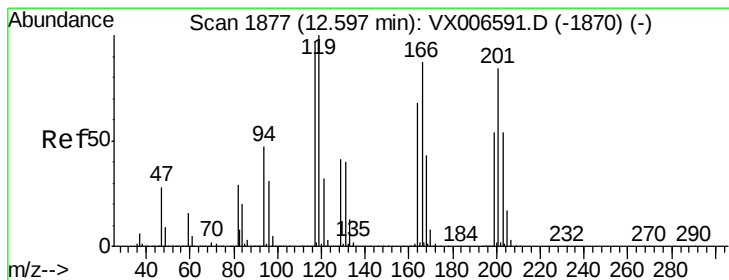
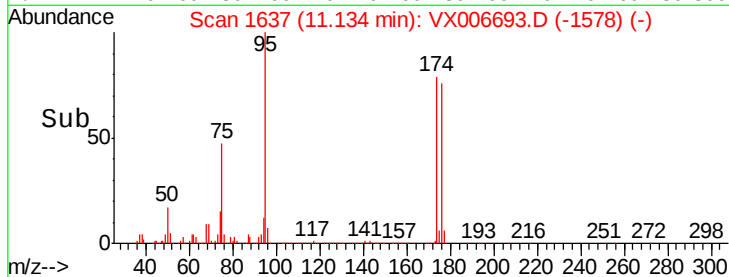
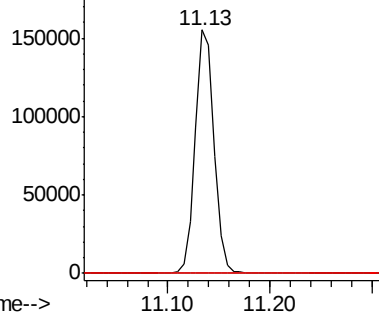
89 0.1 38.0 57.0#



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: 3.302 ug/l

RT: 12.81 min Scan# 1912

Delta R.T. 0.21 min

Lab File: VX006693.D

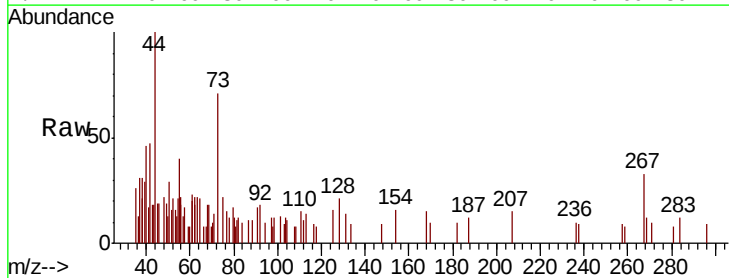
Acq: 20 Dec 2018 23:47

Tgt Ion: 117 Resp: 41

Ion Ratio Lower Upper

117 100

201 97.6 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

