

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080919\
 Data File : VX011417.D
 Acq On : 09 Aug 2019 18:02
 Operator : JC/SP
 Sample : K4278-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

Quant Time: Aug 11 00:04:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

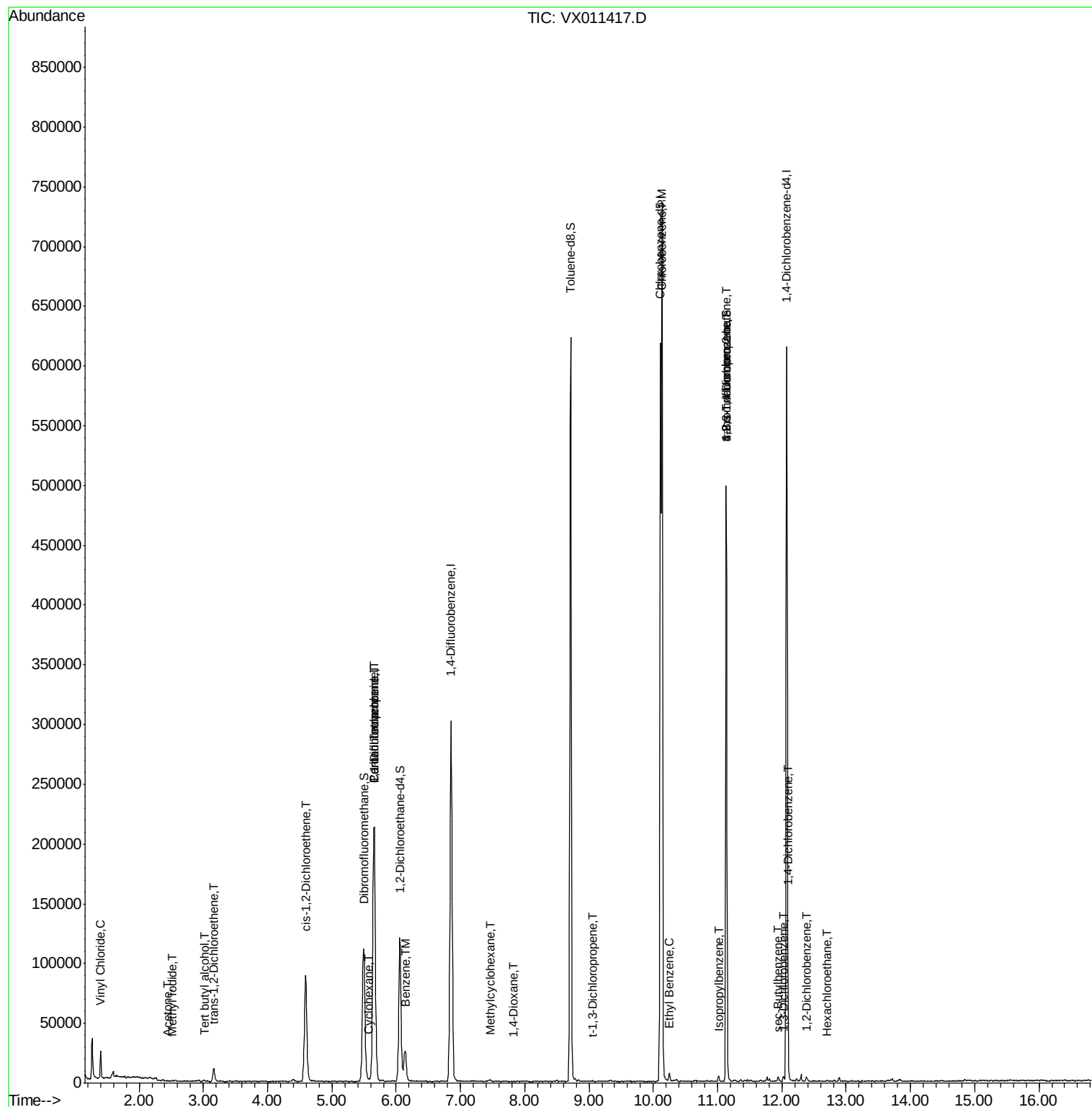
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	211597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	312594	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	277616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	130613	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	110703	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
35) Dibromofluoromethane	5.49	113	92869	45.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.00%	
50) Toluene-d8	8.71	98	367728	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	
62) 4-Bromofluorobenzene	11.13	95	123141	44.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.54%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	14691	7.277	ug/l	94
6) Chloroethane	1.64	64	2070	Below Cal	#	81
10) Methyl Iodide	2.51	142	746	0.305	ug/l #	91
11) Tert butyl alcohol	3.01	59	380	0.917	ug/l #	93
13) Acrolein	2.28	56	61	Below Cal	#	55
16) Acetone	2.44	43	684	0.674	ug/l #	33
21) trans-1,2-Dichloroethene	3.16	96	3945	1.937	ug/l	91
27) cis-1,2-Dichloroethene	4.59	96	58313	24.859	ug/l	94
31) Cyclohexane	5.57	56	991	0.361	ug/l #	84
36) 1,1-Dichloropropene	5.65	75	15028	5.506	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20121	7.328	ug/l #	14
39) Methylcyclohexane	7.46	83	727	0.225	ug/l #	72
40) Benzene	6.14	78	31237	3.835	ug/l	97
49) 1,4-Dioxane	7.82	88	54	0.904	ug/l #	41
53) t-1,3-Dichloropropene	9.06	75	77	2.862	ug/l #	43
65) Chlorobenzene	10.13	112	315598	53.020	ug/l	99
67) Ethyl Benzene	10.25	91	3662	0.367	ug/l	100
73) Isopropylbenzene	11.02	105	2003	0.224	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	62697	26.359	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	62697	68.539	ug/l #	10
85) sec-Butylbenzene	11.94	105	1810	0.205	ug/l	94
87) 1,3-Dichlorobenzene	12.02	146	1483	0.339	ug/l	96
88) 1,4-Dichlorobenzene	12.10	146	11823	2.620	ug/l	86
90) Hexachloroethane	12.70	117	346	0.289	ug/l #	8
91) 1,2-Dichlorobenzene	12.38	146	895	0.204	ug/l	96

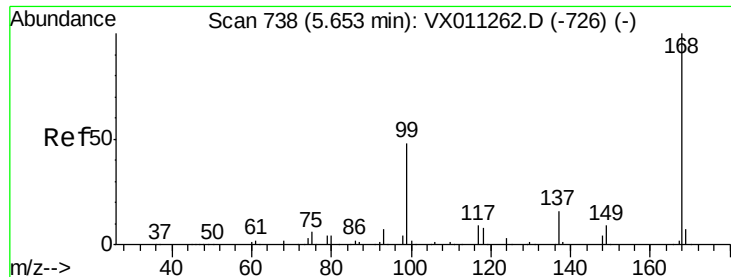
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

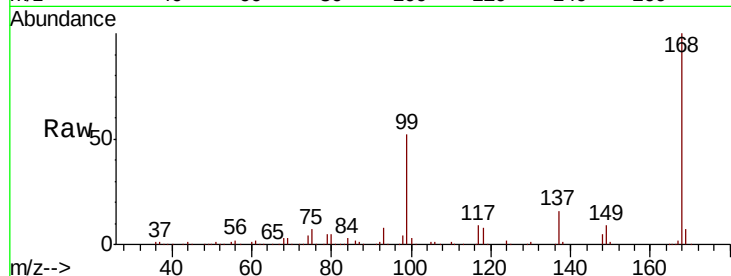
Z3-0691

Tgt Ion: 168 Resp: 211597

Ion Ratio Lower Upper

168 100

99 52.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

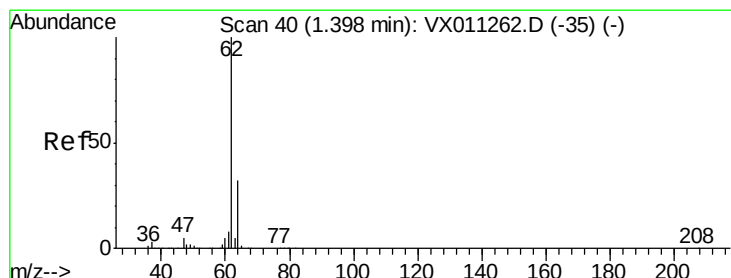
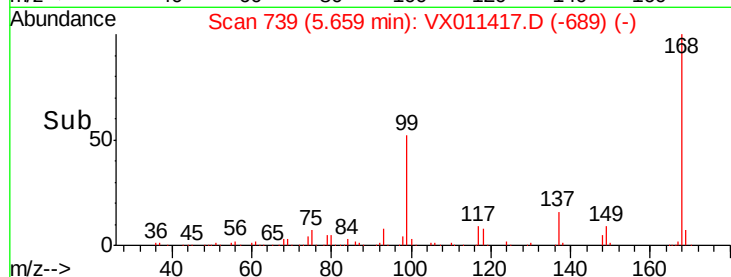
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 7.277 ug/l

RT: 1.40 min Scan# 40

Delta R.T. 0.00 min

Lab File: VX011417.D

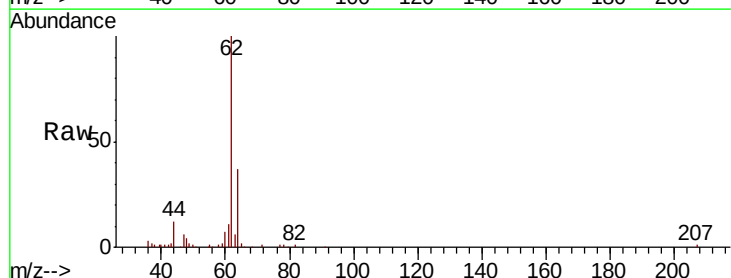
Acq: 09 Aug 2019 18:02

Tgt Ion: 62 Resp: 14691

Ion Ratio Lower Upper

62 100

64 35.7 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

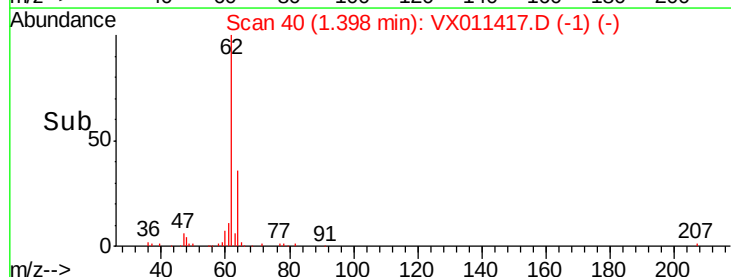
15000

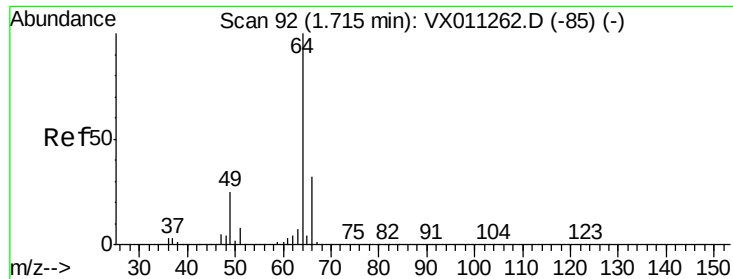
10000

5000

0

Time--> 1.35 1.40 1.45 1.50





#6

Chloroethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

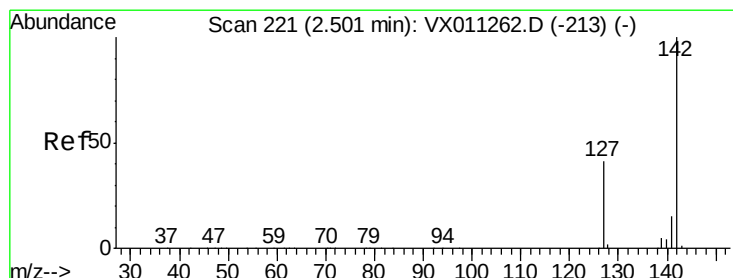
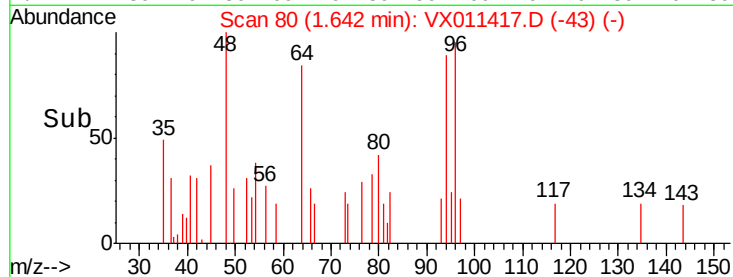
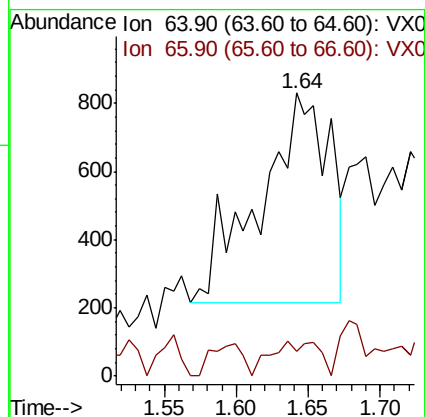
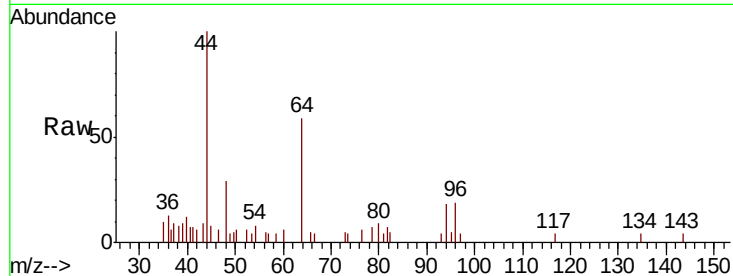
Z3-0691

Tgt Ion: 64 Resp: 2070

Ion Ratio Lower Upper

64 100

66 20.7 25.1 37.7#



#10

Methyl Iodide

Concen: 0.305 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

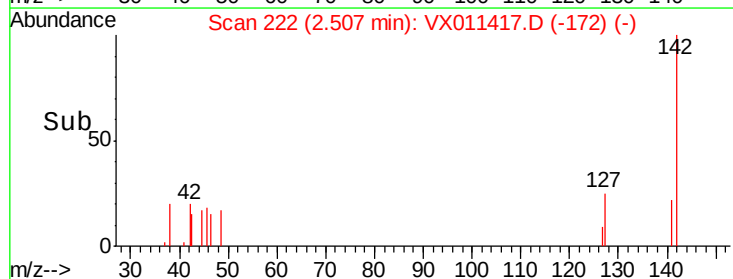
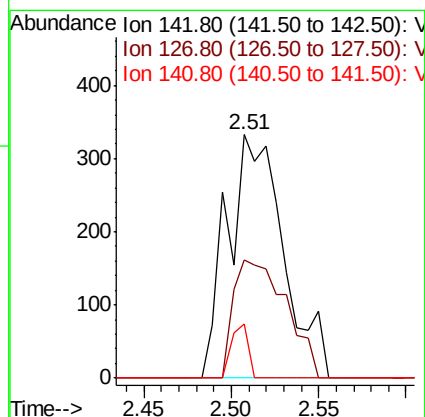
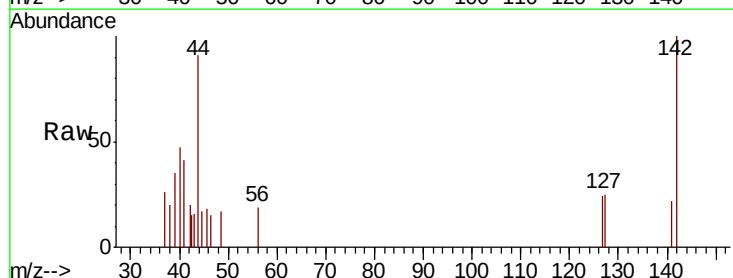
Tgt Ion: 142 Resp: 746

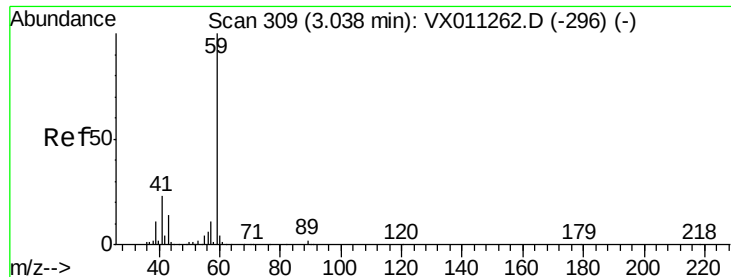
Ion Ratio Lower Upper

142 100

127 45.6 33.8 50.8

141 6.6 11.4 17.2#

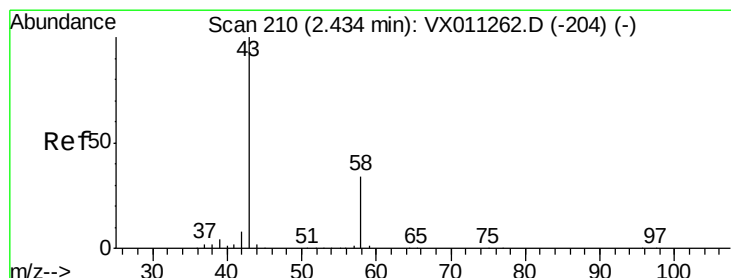
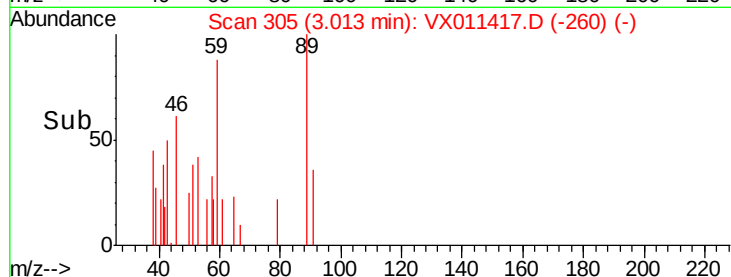
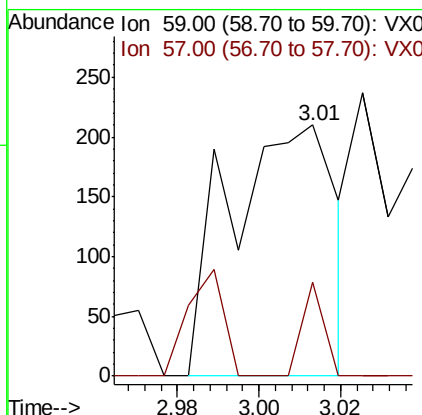
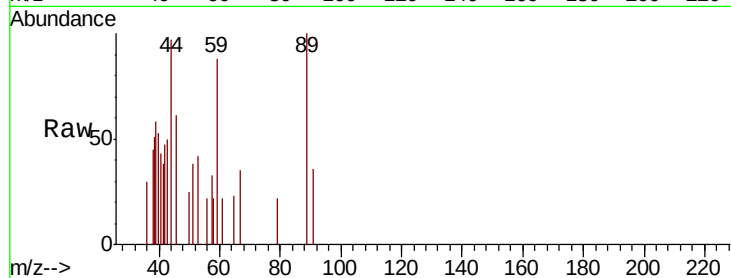




#11
Tert butyl alcohol
Concen: 0.917 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

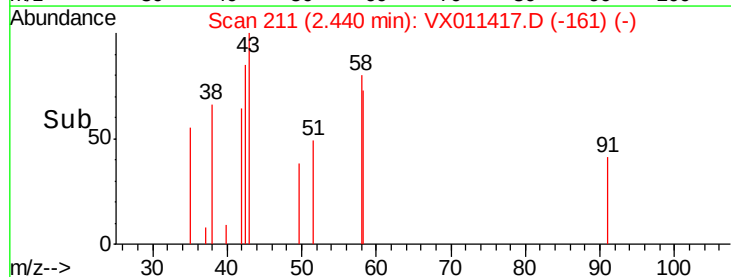
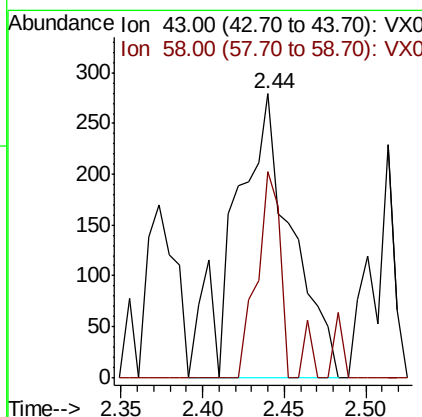
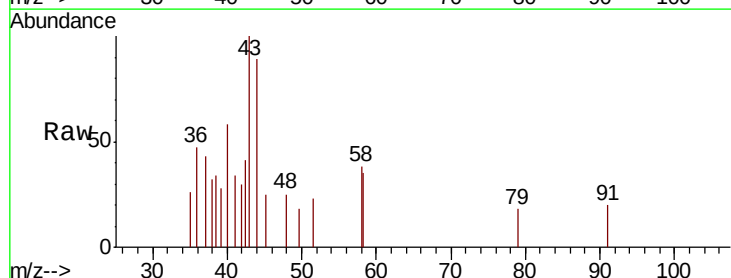
Instrument :
MSVOA_X
ClientSampleId :
Z3-0691

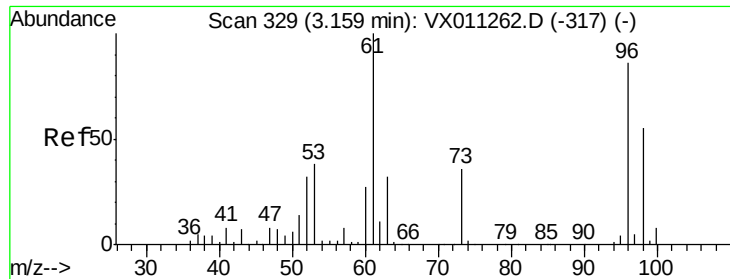
Tgt Ion: 59 Resp: 380
Ion Ratio Lower Upper
59 100
57 7.6 8.3 12.5#



#16
Acetone
Concen: 0.674 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.01 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Tgt Ion: 43 Resp: 684
Ion Ratio Lower Upper
43 100
58 72.8 27.4 41.0#

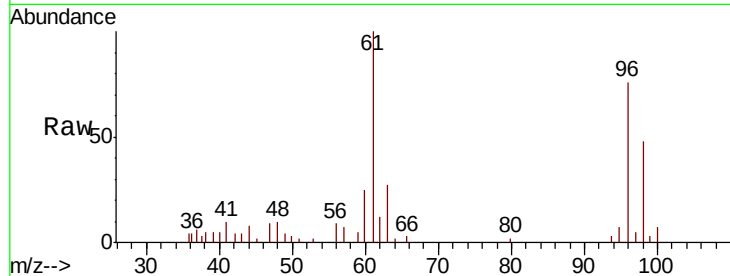




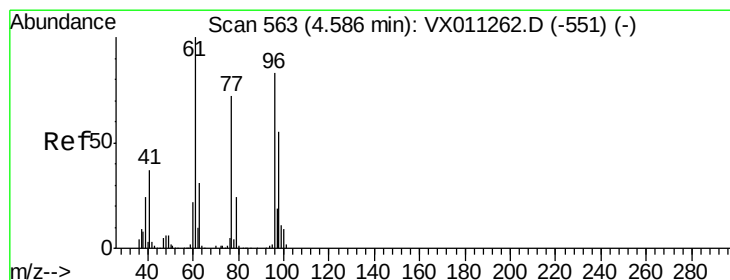
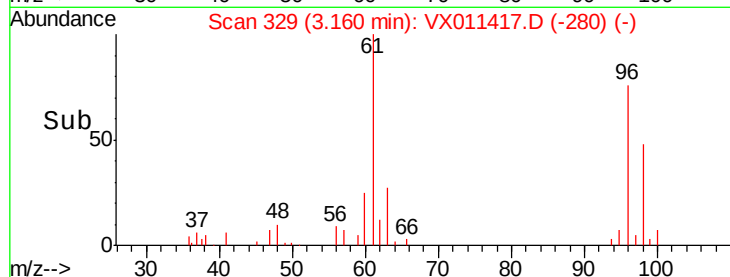
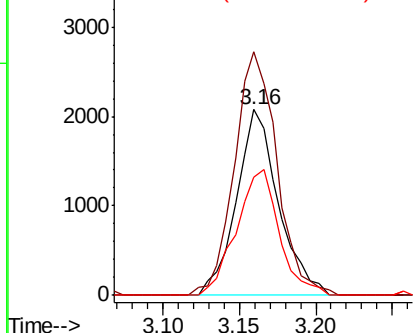
#21
trans-1,2-Dichloroethene
Concen: 1.937 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Instrument :
MSVOA_X
ClientSampleId :
Z3-0691

Tgt Ion: 96 Resp: 3945
Ion Ratio Lower Upper
96 100
61 131.0 92.8 139.2
98 63.2 51.2 76.8

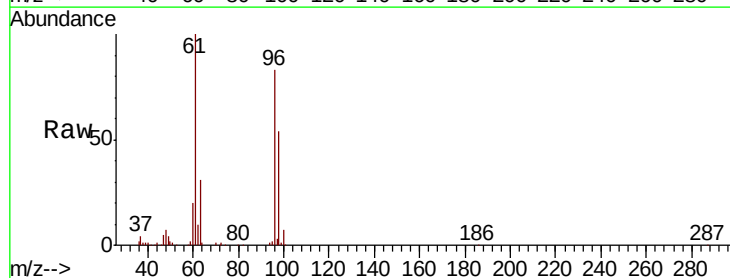


Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

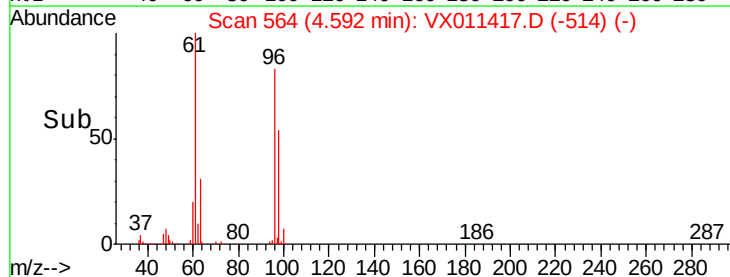
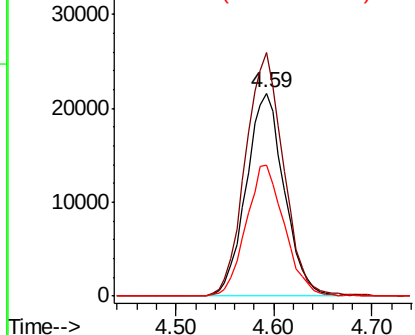


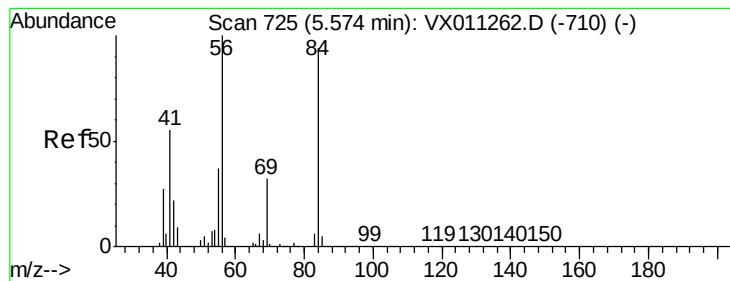
#27
cis-1,2-Dichloroethene
Concen: 24.859 ug/l
RT: 4.59 min Scan# 564
Delta R.T. 0.01 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Tgt Ion: 96 Resp: 58313
Ion Ratio Lower Upper
96 100
61 119.8 0.0 260.2
98 65.2 0.0 133.2



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





#31

Cyclohexane

Concen: 0.361 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

Instrument :

MSVOA_X

ClientSampled :

Z3-0691

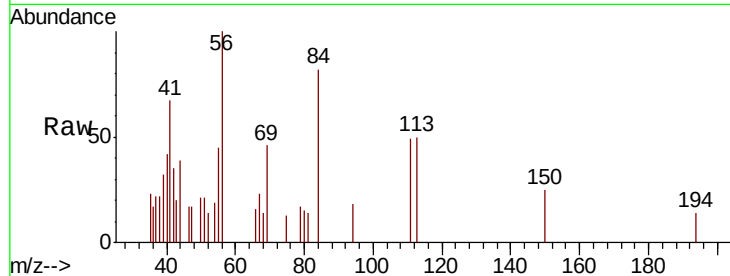
Tgt Ion: 56 Resp: 991

Ion Ratio Lower Upper

56 100

69 45.9 25.5 38.3#

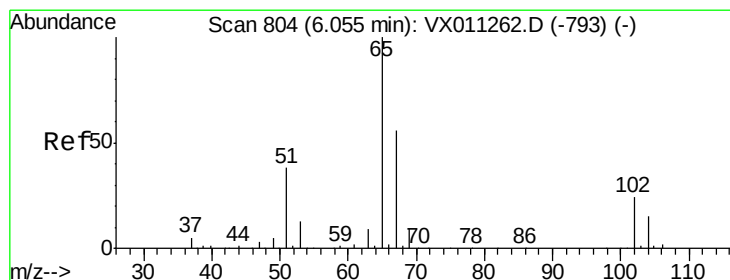
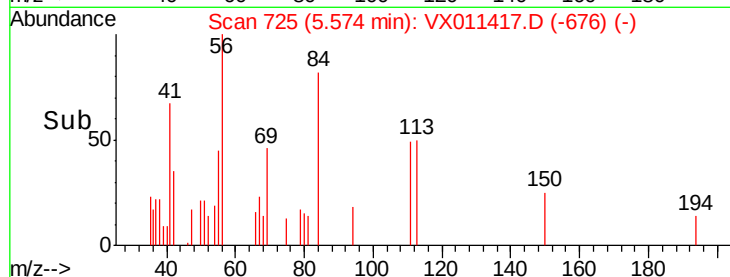
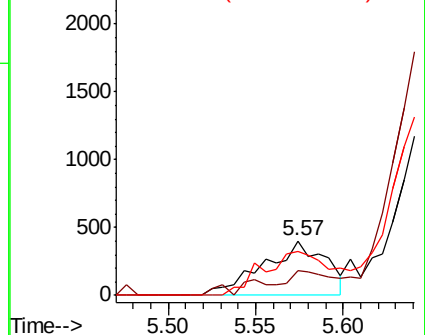
84 81.8 75.0 112.4



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



#33

1,2-Dichloroethane-d4

Concen: 51.951 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011417.D

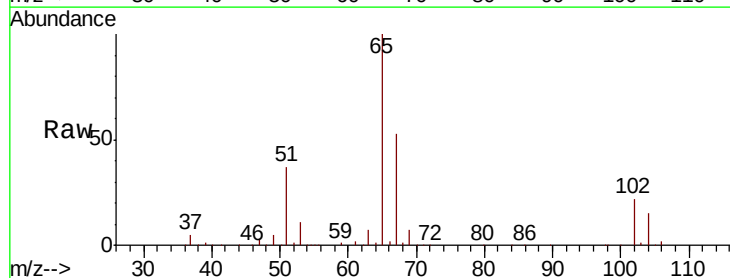
Acq: 09 Aug 2019 18:02

Tgt Ion: 65 Resp: 110703

Ion Ratio Lower Upper

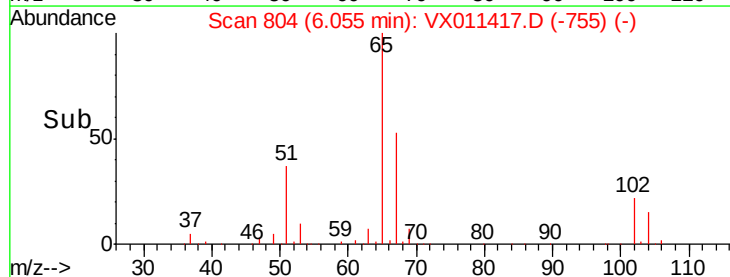
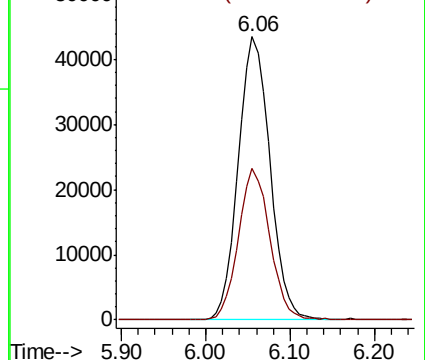
65 100

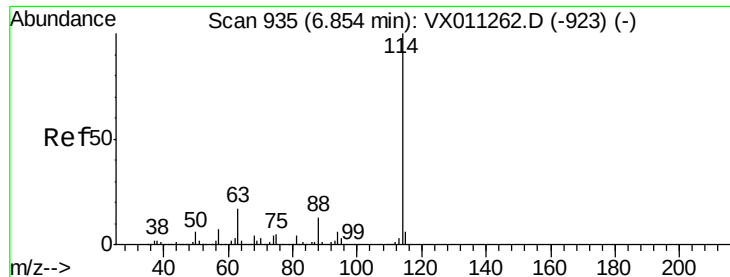
67 53.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

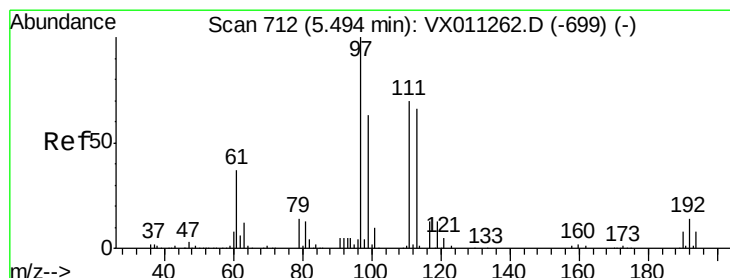
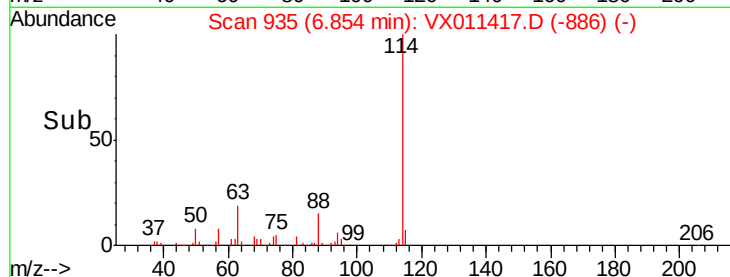
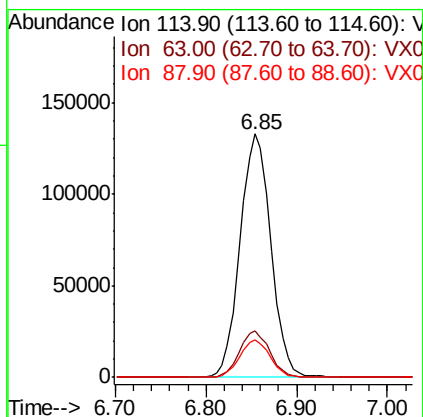
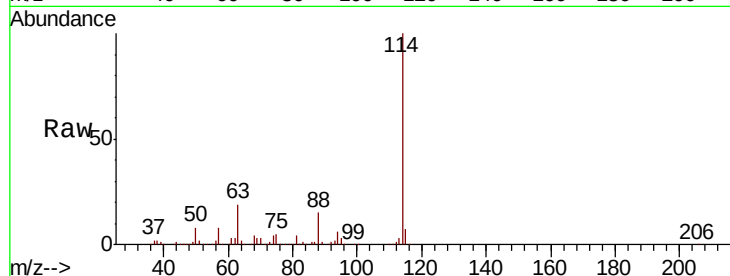




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

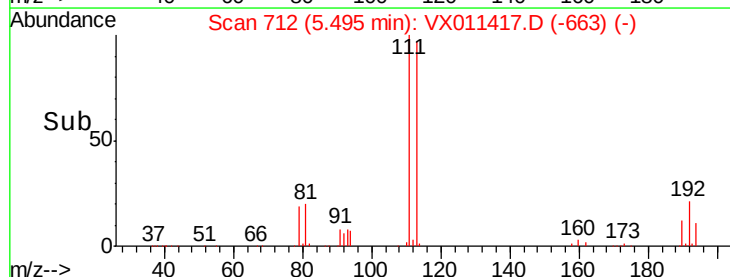
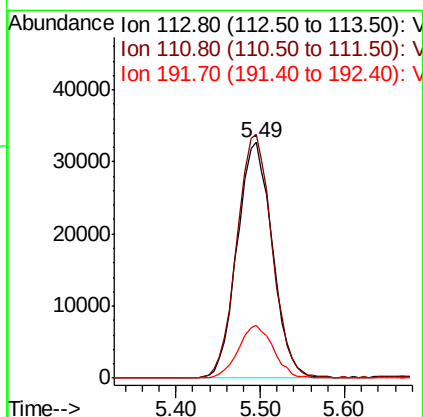
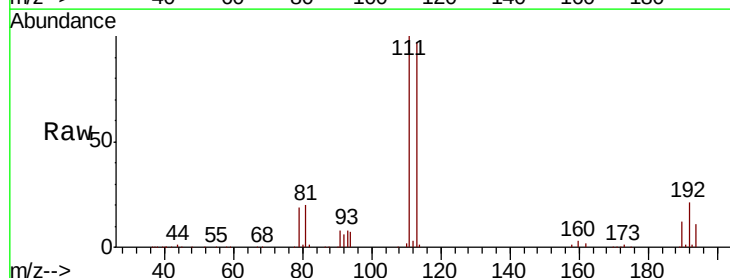
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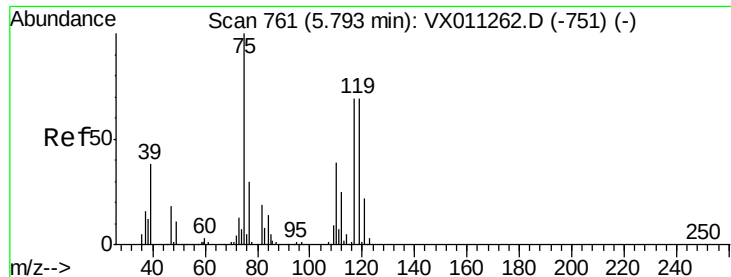
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	34.0
88	15.3	0.0	26.4



#35
 Dibromofluoromethane
 Concen: 45.505 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.9	122.9
192	22.1	17.8	26.8

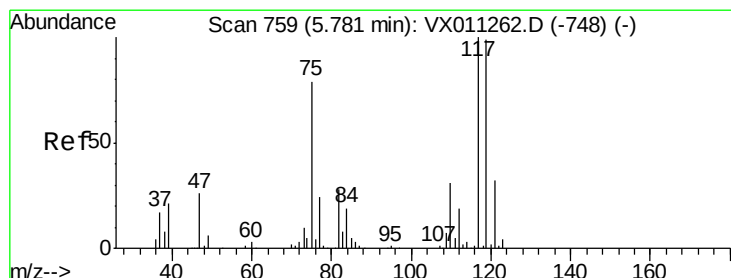
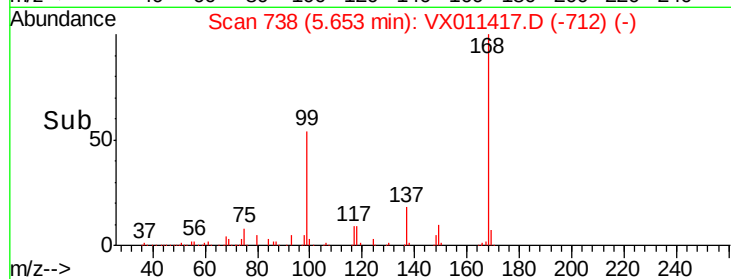
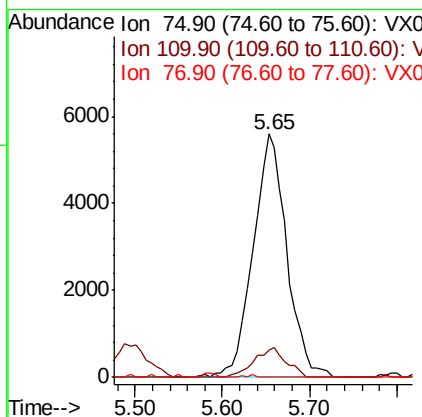
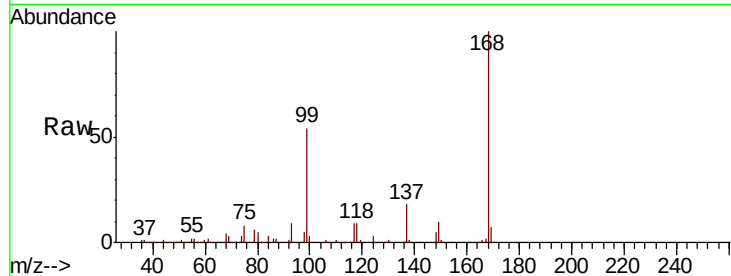




#36
 1,1-Dichloropropene
 Concen: 5.506 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

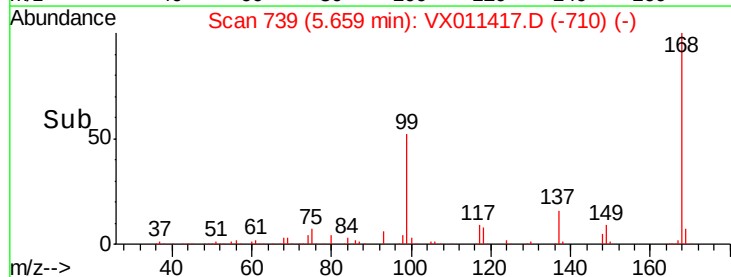
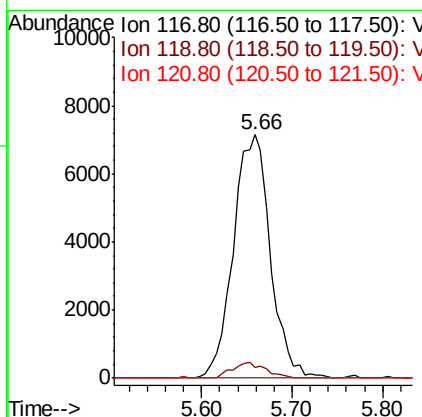
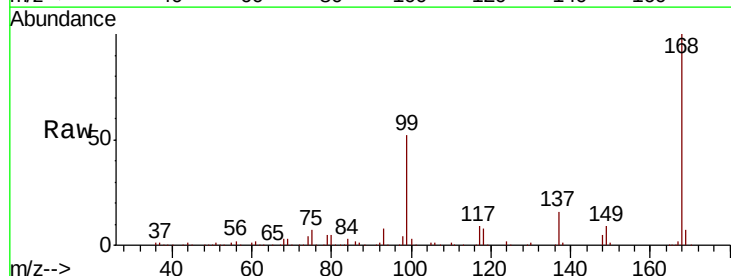
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

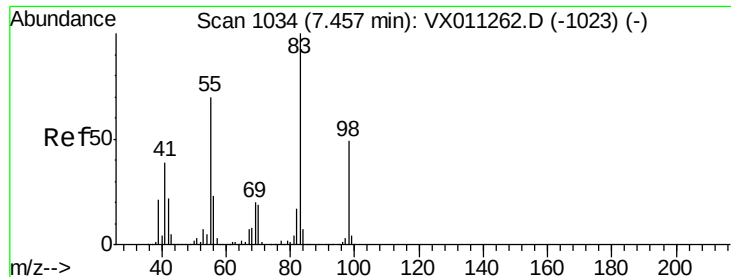
Tgt Ion: 75 Resp: 15028
 Ion Ratio Lower Upper
 75 100
 110 11.6 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.328 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

Tgt Ion: 117 Resp: 20121
 Ion Ratio Lower Upper
 117 100
 119 4.2 79.0 118.4#
 121 0.0 25.9 38.9#

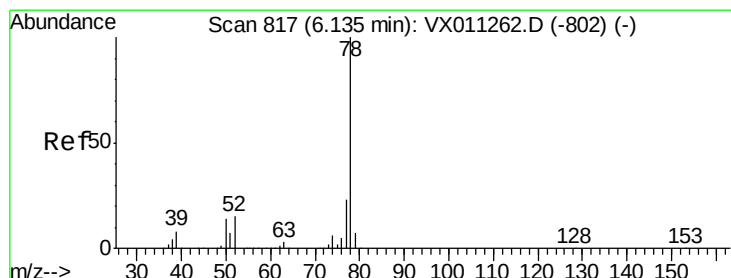
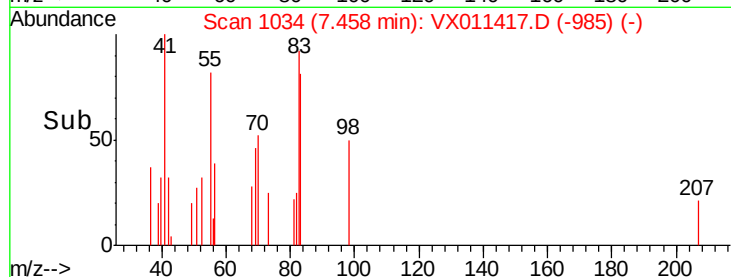
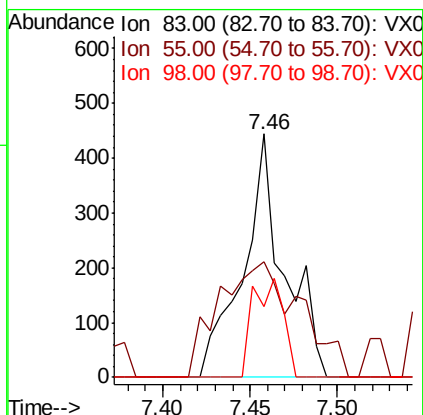
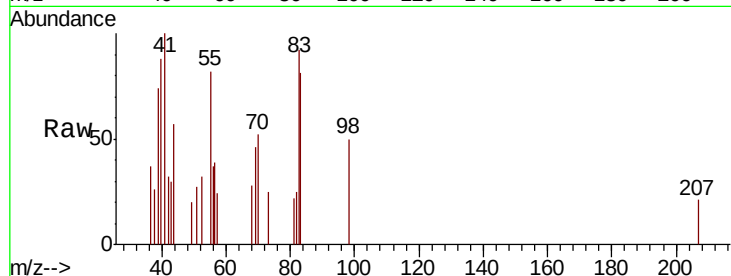




#39
Methylcyclohexane
Concen: 0.225 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

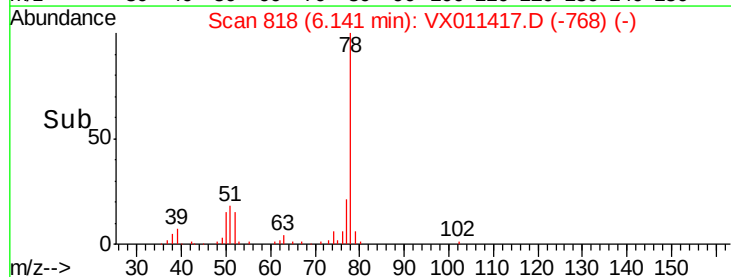
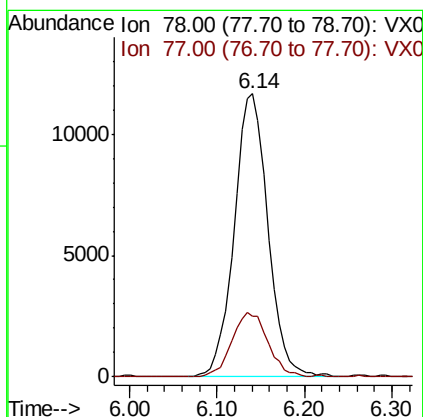
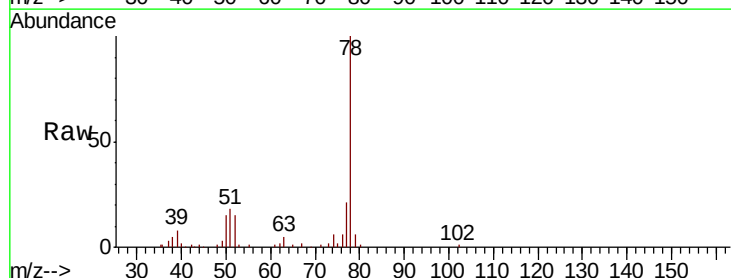
Instrument :
MSVOA_X
ClientSampled :
Z3-0691

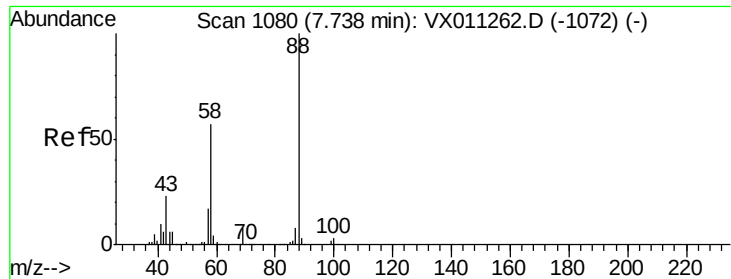
Tgt Ion: 83 Resp: 727
Ion Ratio Lower Upper
83 100
55 47.5 56.1 84.1#
98 29.1 39.0 58.4#



#40
Benzene
Concen: 3.835 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.01 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Tgt Ion: 78 Resp: 31237
Ion Ratio Lower Upper
78 100
77 21.2 18.2 27.2





#49

1,4-Dioxane

Concen: 0.904 ug/l

RT: 7.82 min Scan# 1093

Delta R.T. 0.08 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

Z3-0691

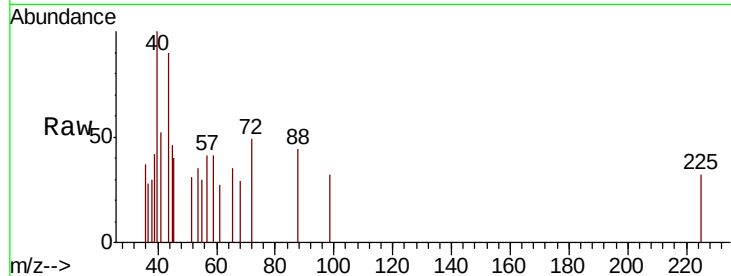
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 35.2 22.2 33.2#

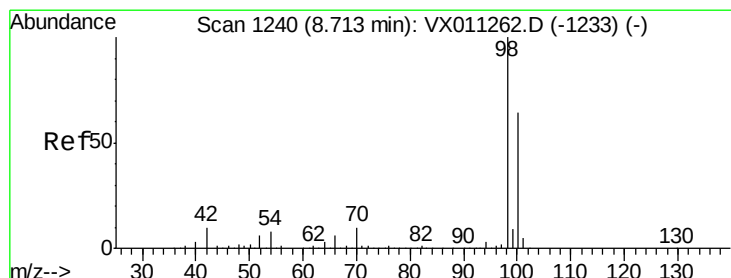
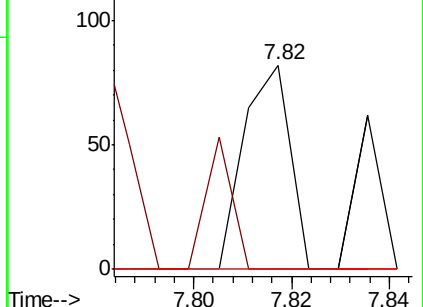
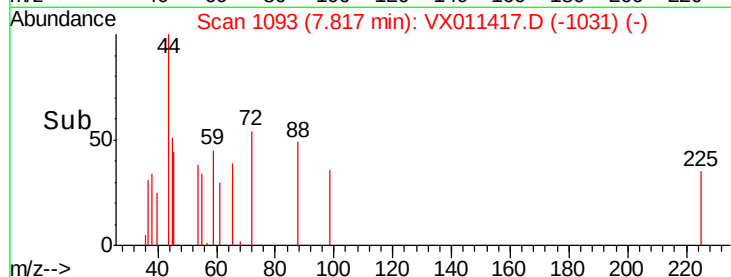
58 0.0 47.8 71.8#



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: 47.734 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011417.D

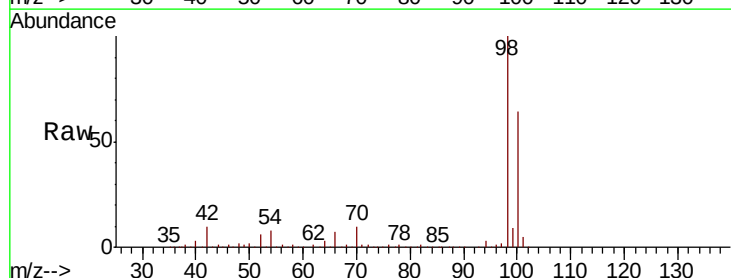
Acq: 09 Aug 2019 18:02

Tgt Ion: 98 Resp: 367728

Ion Ratio Lower Upper

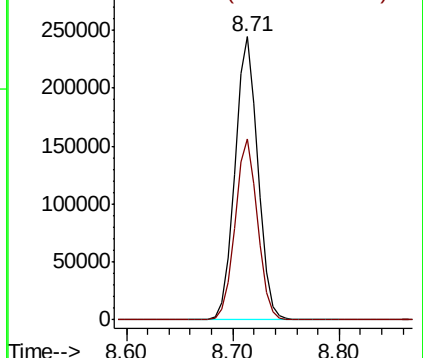
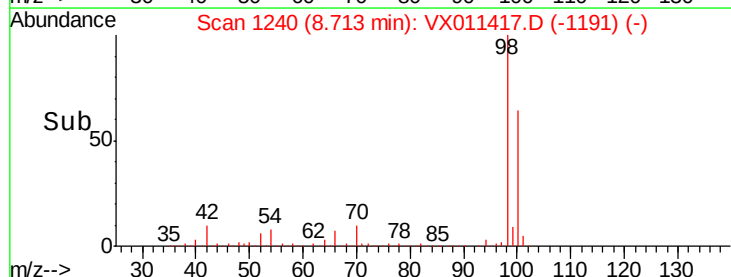
98 100

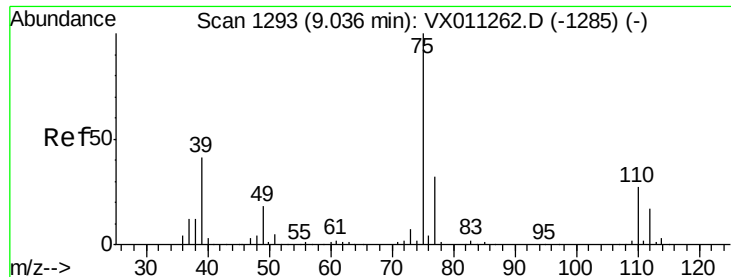
100 63.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

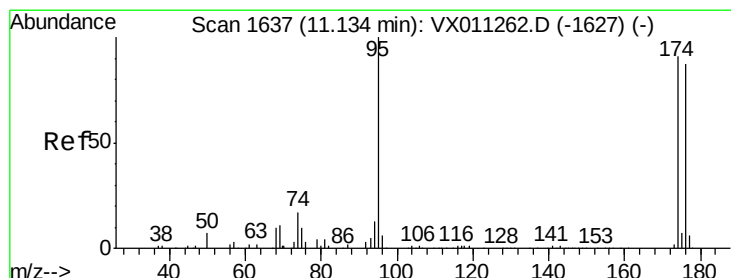
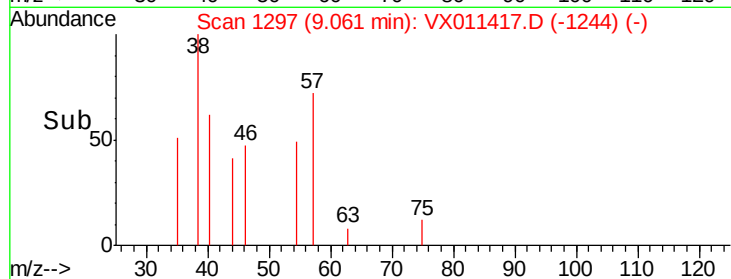
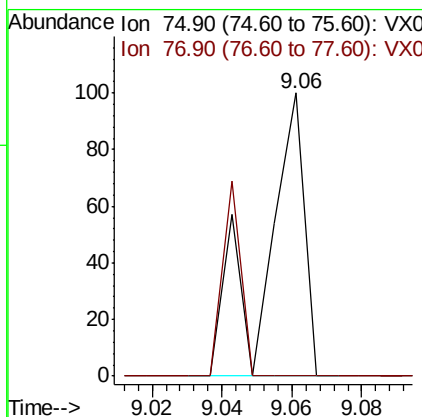
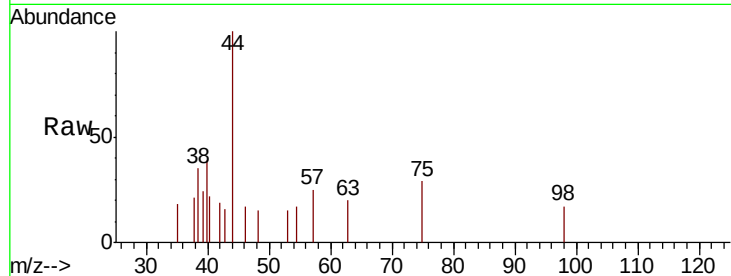




#53
t-1,3-Dichloropropene
Concen: 2.862 ug/l
RT: 9.06 min Scan# 1297
Delta R.T. 0.02 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

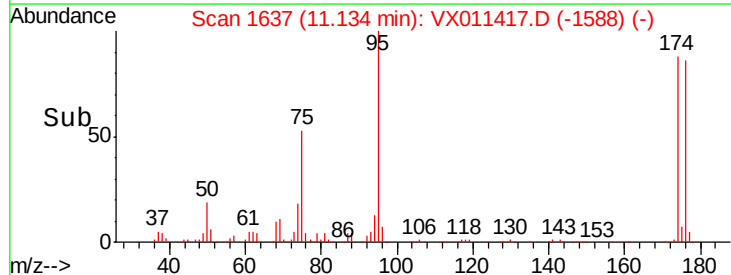
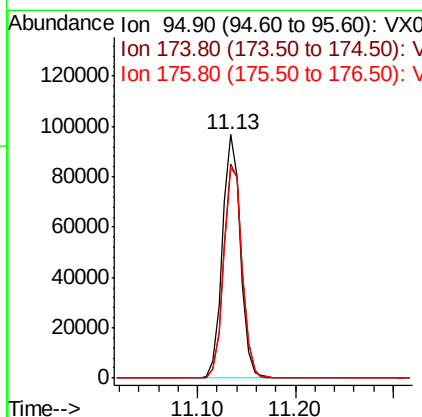
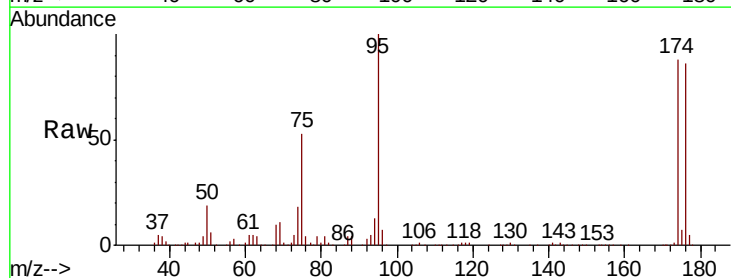
Instrument :
MSVOA_X
ClientSampleId :
Z3-0691

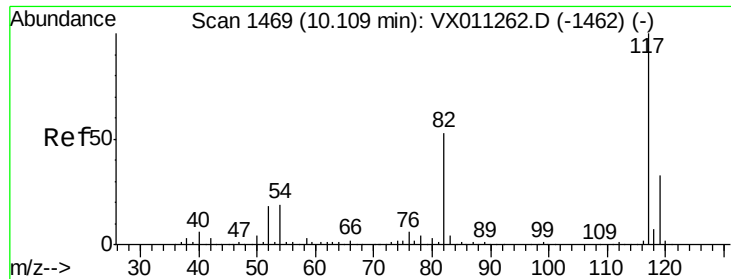
Tgt Ion: 75 Resp: 77
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#62
4-Bromofluorobenzene
Concen: 44.772 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Tgt Ion: 95 Resp: 123141
Ion Ratio Lower Upper
95 100
174 89.9 0.0 191.2
176 88.8 0.0 184.8

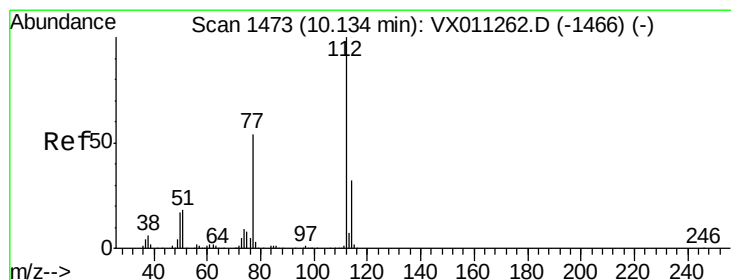
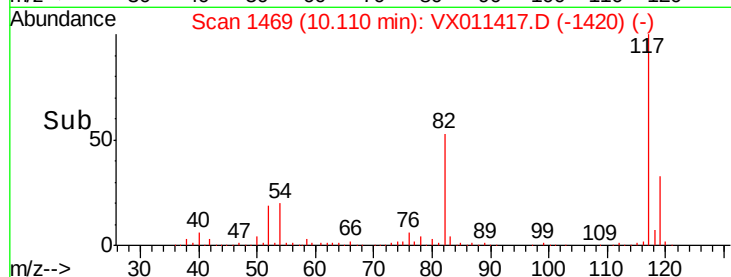
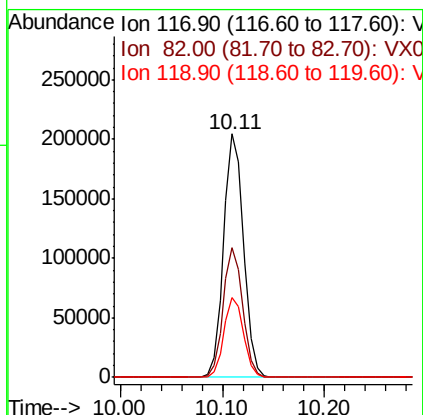
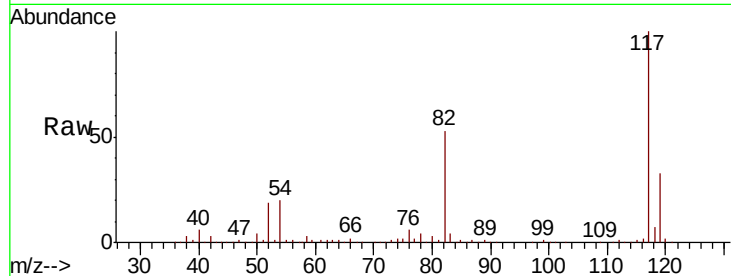




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

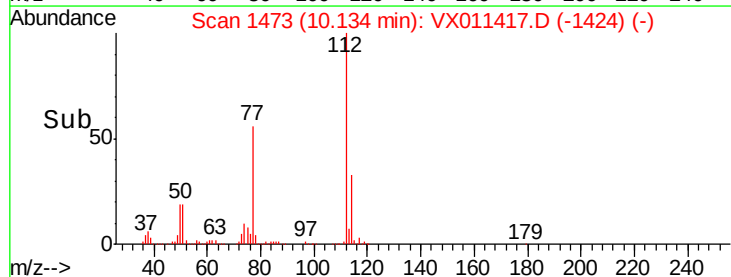
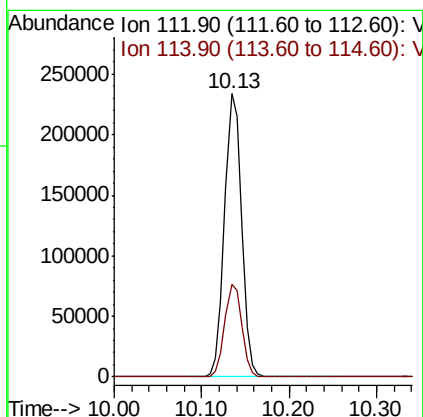
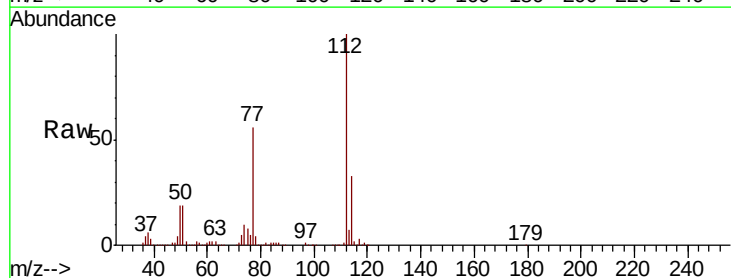
Instrument :
MSVOA_X
ClientSampled :
Z3-0691

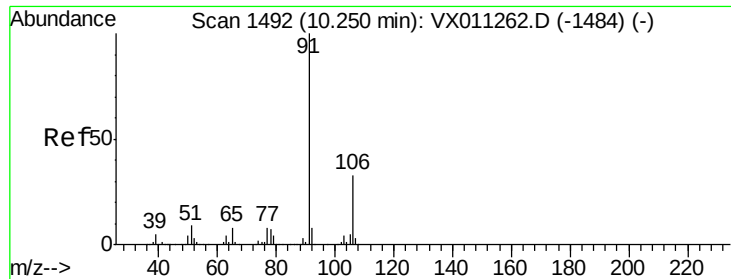
Tgt Ion:117 Resp: 277616
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.2
119 32.9 26.6 39.8



#65
Chlorobenzene
Concen: 53.020 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Tgt Ion:112 Resp: 315598
Ion Ratio Lower Upper
112 100
114 32.8 25.9 38.9

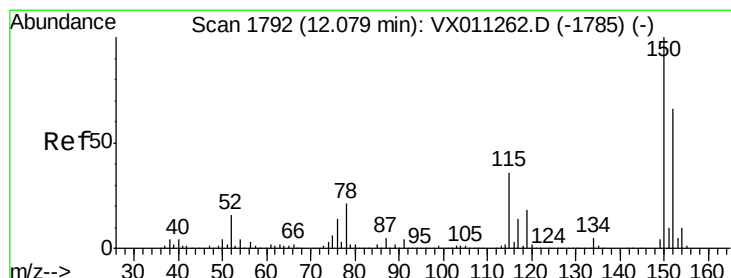
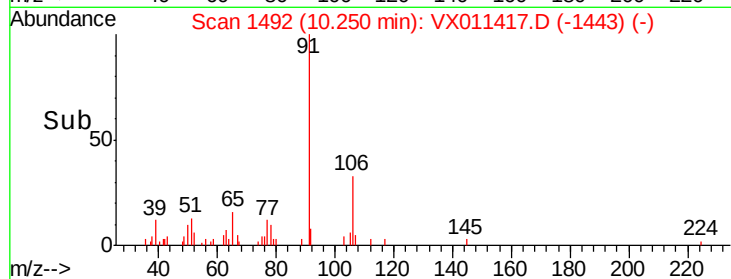
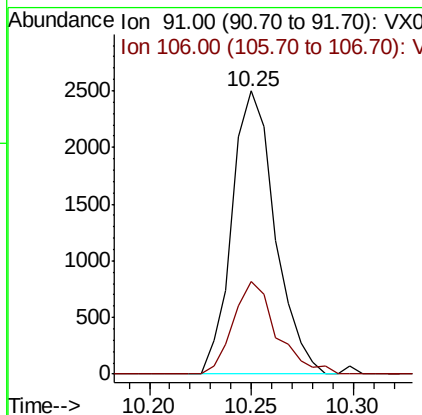
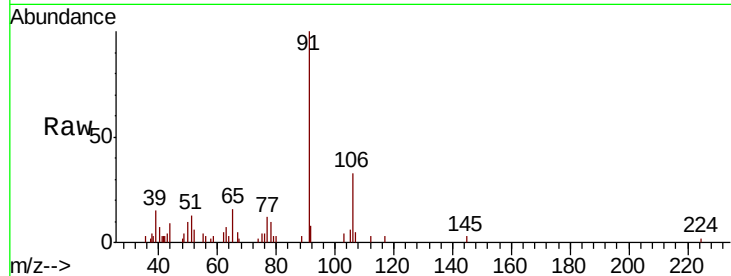




#67
Ethyl Benzene
Concen: 0.367 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

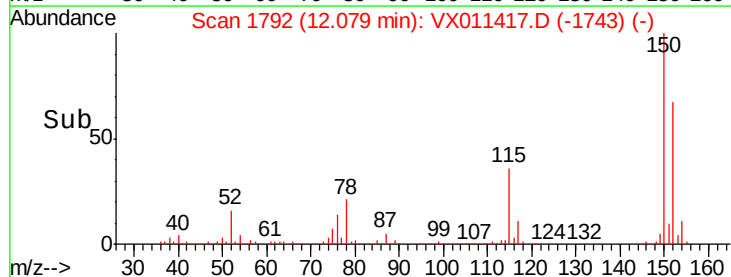
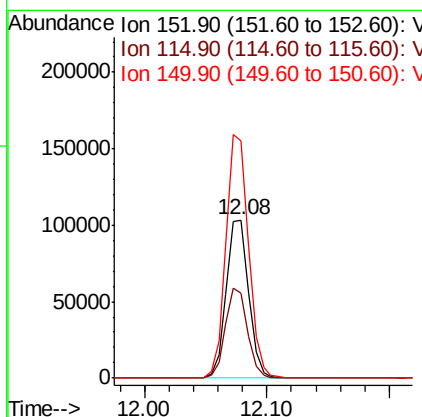
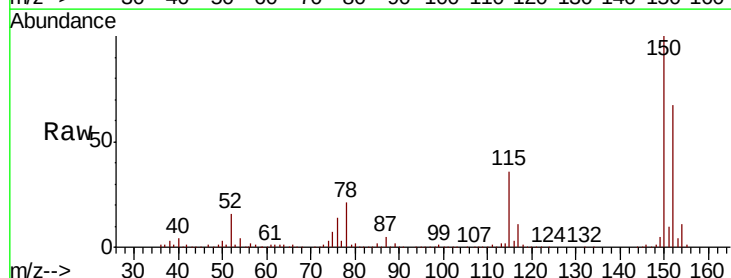
Instrument :
MSVOA_X
ClientSampled :
Z3-0691

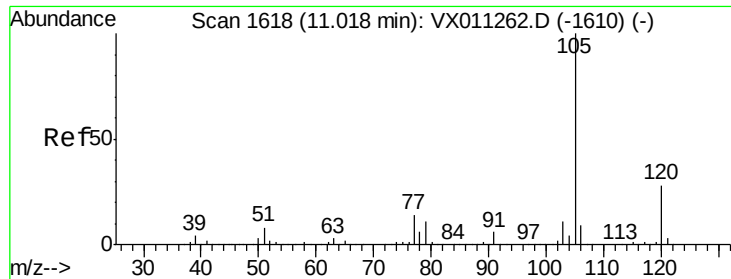
Tgt Ion: 91 Resp: 3662
Ion Ratio Lower Upper
91 100
106 32.8 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011417.D
Acq: 09 Aug 2019 18:02

Tgt Ion: 152 Resp: 130613
Ion Ratio Lower Upper
152 100
115 56.1 40.0 119.9
150 155.3 0.0 350.4





#73

Isopropylbenzene

Concen: 0.224 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

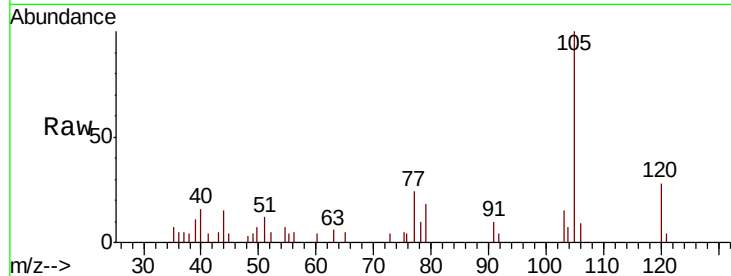
Z3-0691

Tgt Ion: 105 Resp: 2003

Ion Ratio Lower Upper

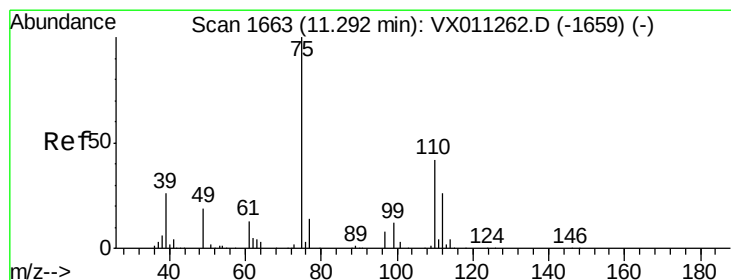
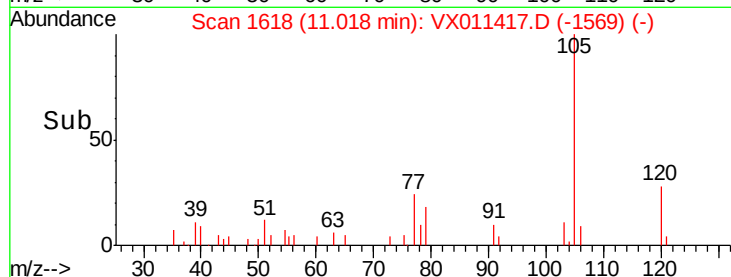
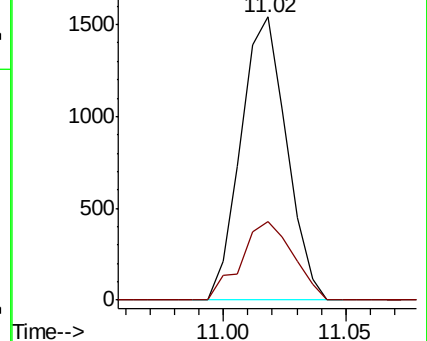
105 100

120 31.4 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 26.359 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011417.D

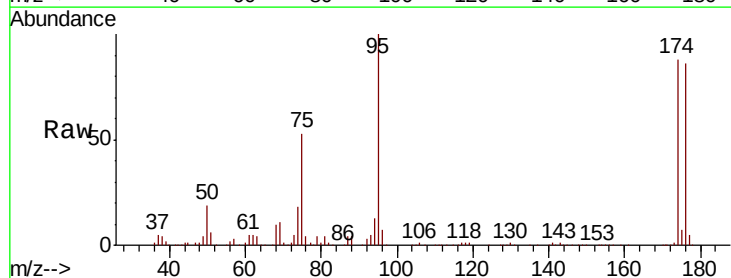
Acq: 09 Aug 2019 18:02

Tgt Ion: 75 Resp: 62697

Ion Ratio Lower Upper

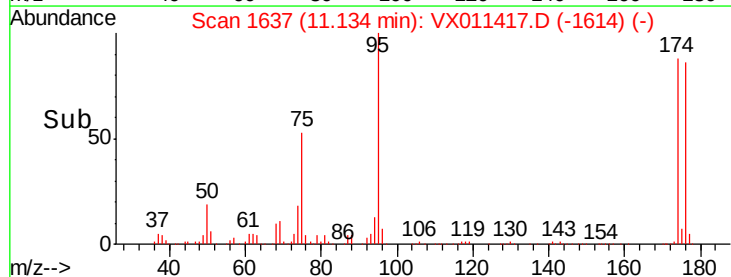
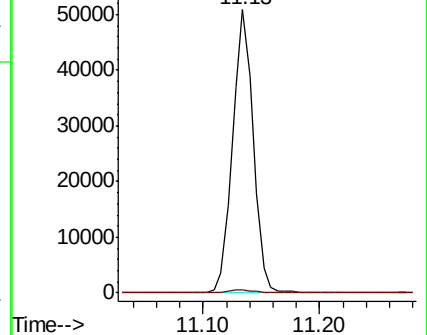
75 100

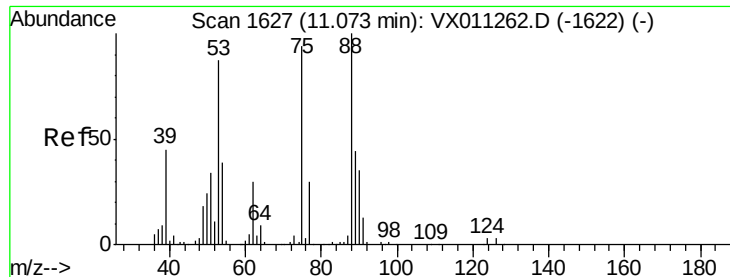
77 1.2 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

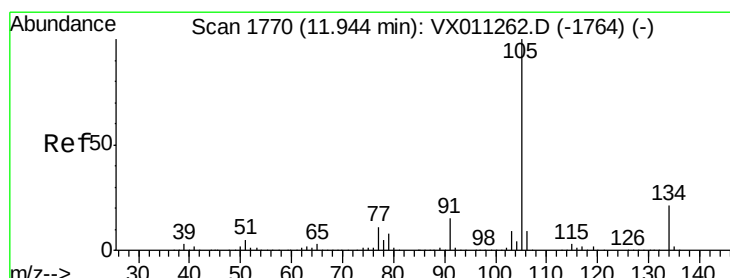
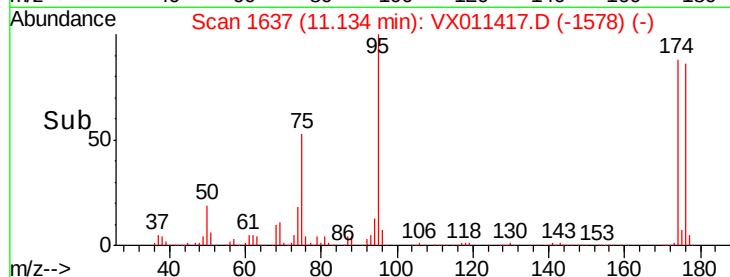
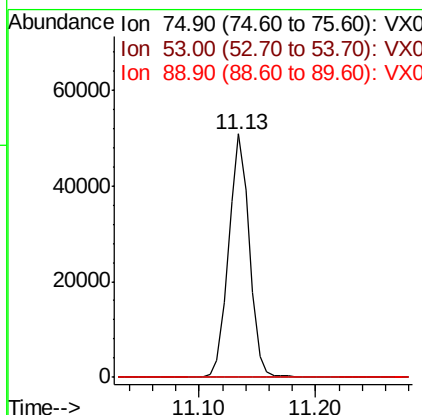
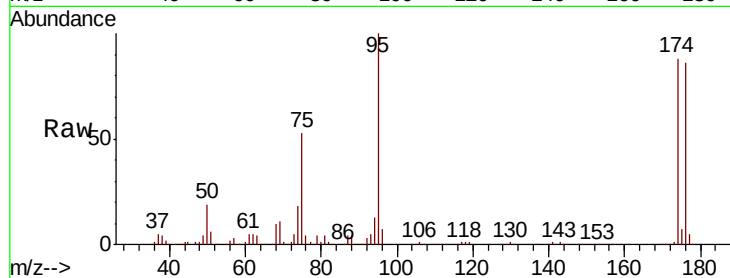




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.539 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

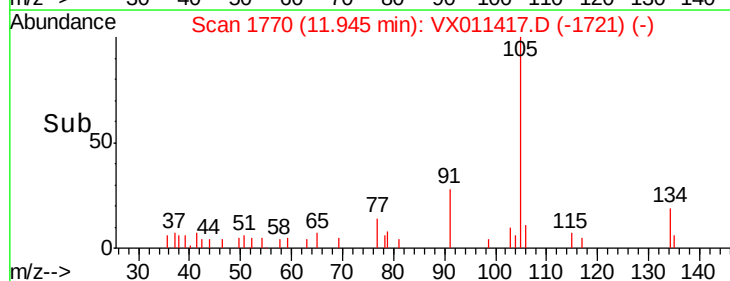
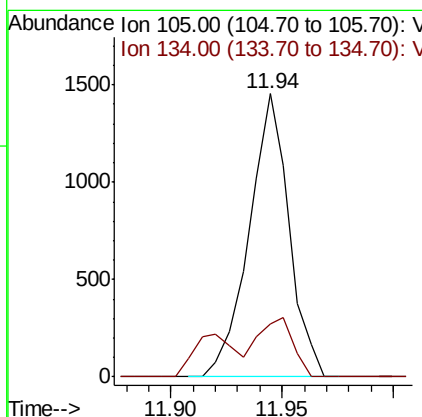
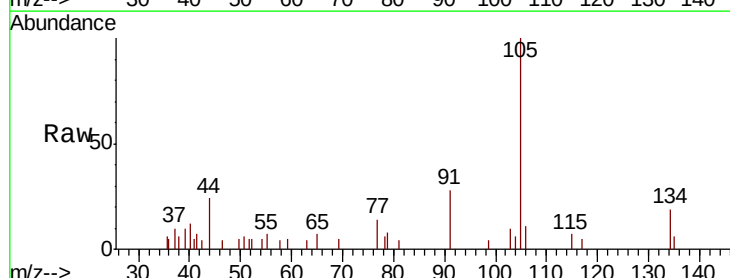
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

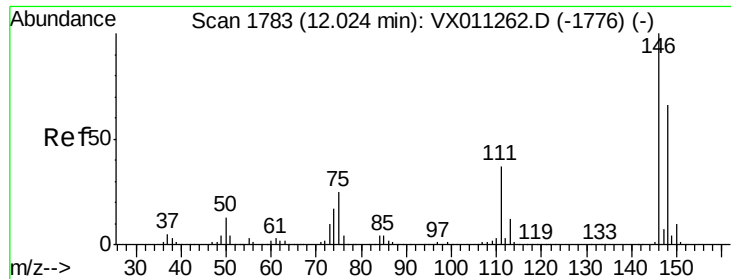
Tgt Ion: 75 Resp: 62697
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.4#
 89 0.1 37.9 56.9#



#85
 sec-Butylbenzene
 Concen: 0.205 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

Tgt Ion: 105 Resp: 1810
 Ion Ratio Lower Upper
 105 100
 134 18.1 10.4 31.4

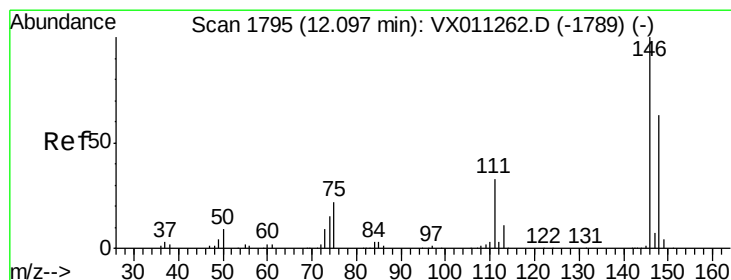
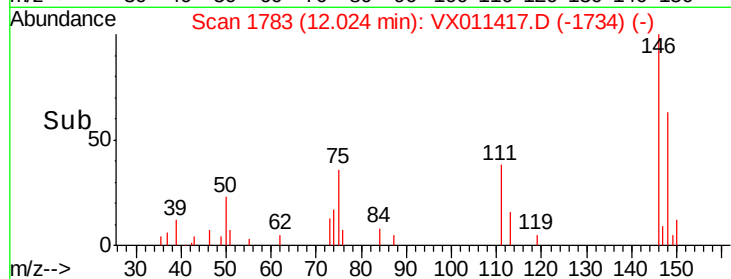
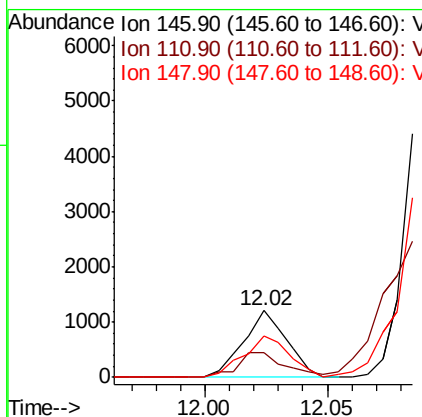
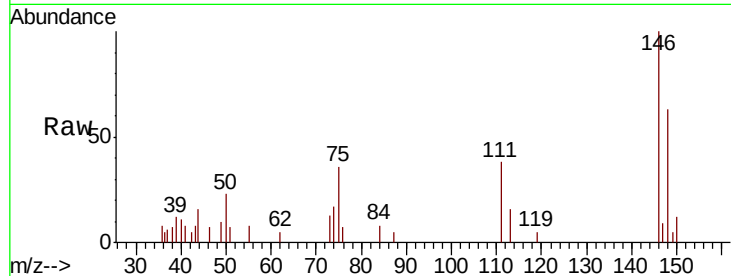




#87
 1,3-Dichlorobenzene
 Concen: 0.339 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

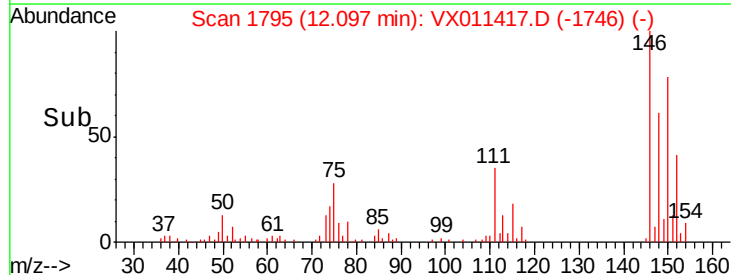
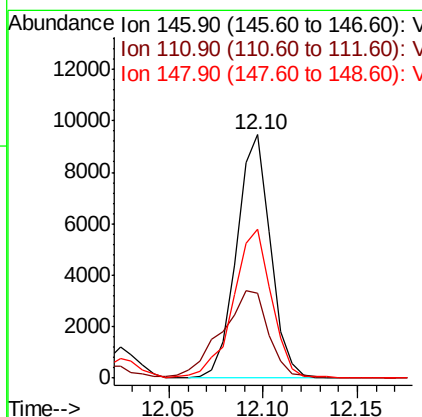
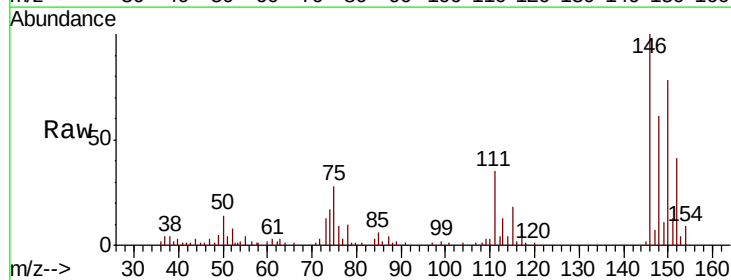
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

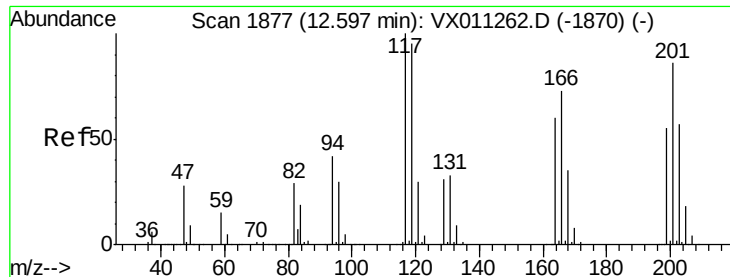
Tgt Ion:146 Resp: 1483
 Ion Ratio Lower Upper
 146 100
 111 41.5 18.6 55.8
 148 66.3 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 2.620 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX011417.D
 Acq: 09 Aug 2019 18:02

Tgt Ion:146 Resp: 11823
 Ion Ratio Lower Upper
 146 100
 111 49.9 17.8 53.4
 148 69.4 31.8 95.3





#90

Hexachloroethane

Concen: 0.289 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

Instrument :

MSVOA_X

ClientSampled :

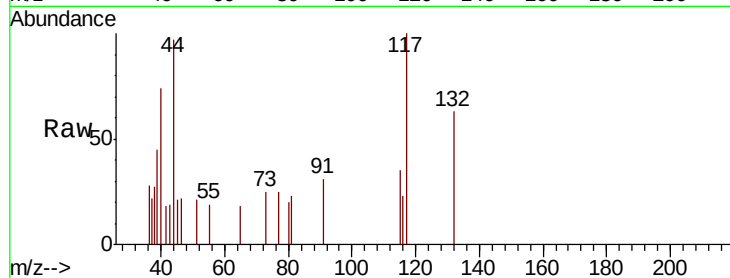
Z3-0691

Tgt Ion:117 Resp: 346

Ion Ratio Lower Upper

117 100

201 0.0 41.8 125.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.70

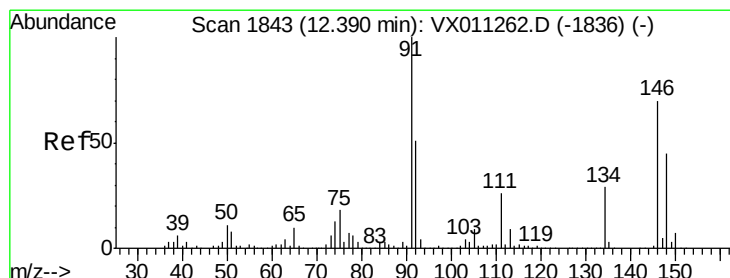
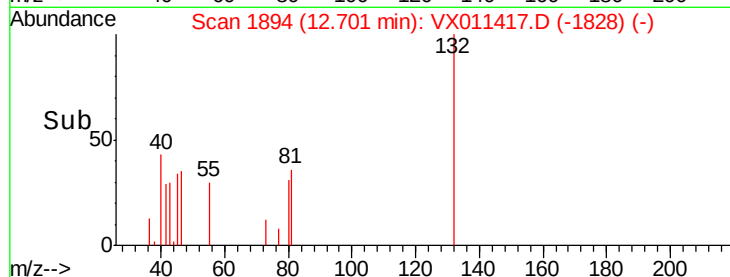
300

200

100

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.204 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VX011417.D

Acq: 09 Aug 2019 18:02

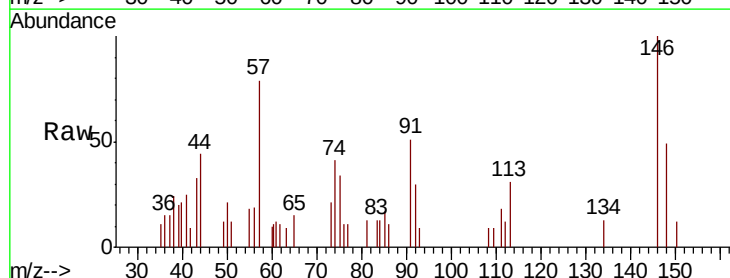
Tgt Ion:146 Resp: 895

Ion Ratio Lower Upper

146 100

111 42.0 19.1 57.1

148 66.1 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

800

600

400

200

0

Time-->

