

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073019\
 Data File : VX011202.D
 Acq On : 30 Jul 2019 18:03
 Operator : JC/SP
 Sample : K4026-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0673

Quant Time: Jul 31 09:00:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	222127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	317326	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	281415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	133214	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	109813	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
35) Dibromofluoromethane	5.50	113	94949	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	8.71	98	370299	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	11.13	95	123920	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	

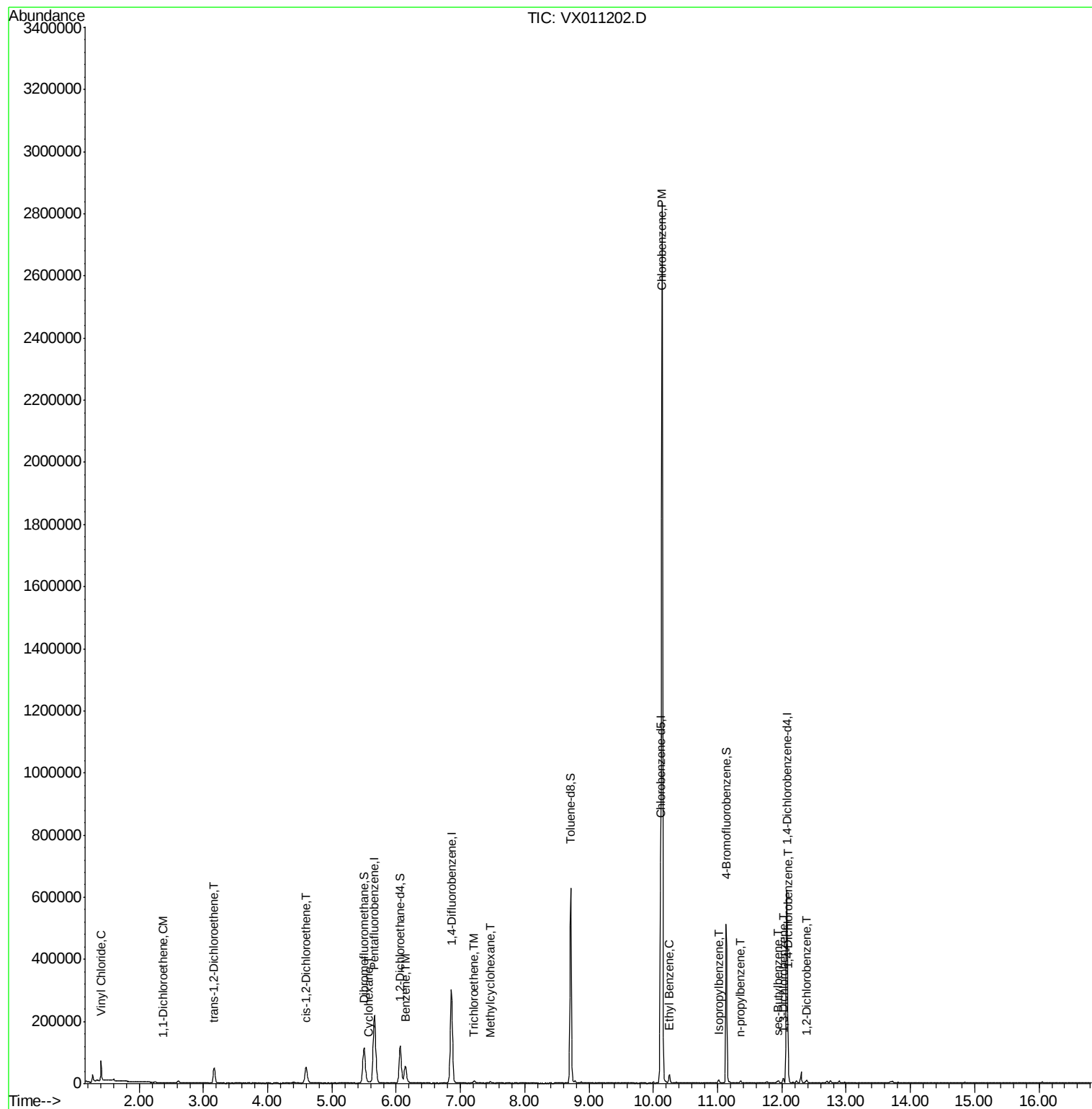
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	41279	19.812	ug/l	100
12) 1,1-Dichloroethene	2.37	96	819	0.414	ug/l #	78
21) trans-1,2-Dichloroethene	3.17	96	21913	10.438	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	34920	14.373	ug/l	88
31) Cyclohexane	5.58	56	2651	0.826	ug/l	100
39) Methylcyclohexane	7.46	83	1762	0.521	ug/l #	83
40) Benzene	6.15	78	66540	8.334	ug/l	95
44) Trichloroethene	7.21	130	2482	1.050	ug/l	98
65) Chlorobenzene	10.14	112	1289381	223.076	ug/l	100
67) Ethyl Benzene	10.25	91	15499	1.575	ug/l	99
73) Isopropylbenzene	11.02	105	5337	0.593	ug/l	99
78) n-propylbenzene	11.36	91	2089	0.210	ug/l	97
85) sec-Butylbenzene	11.94	105	3741	0.432	ug/l	98
87) 1,3-Dichlorobenzene	12.02	146	4910	1.140	ug/l	98
88) 1,4-Dichlorobenzene	12.10	146	41786	9.456	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	2169	0.508	ug/l	97

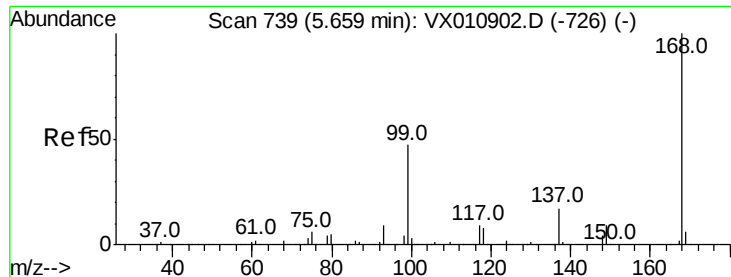
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 24 05:39:23 2019
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: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

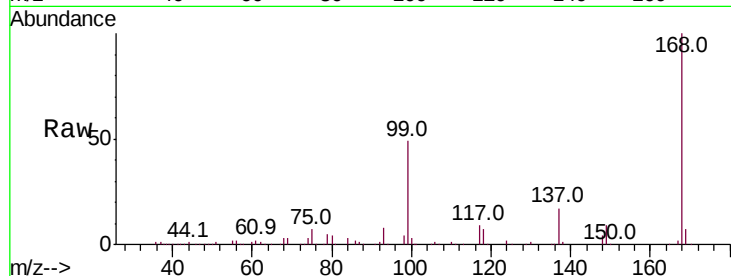
Z3-0673

Tot Ion:168 Resp: 222127

Ion Ratio Lower Upper

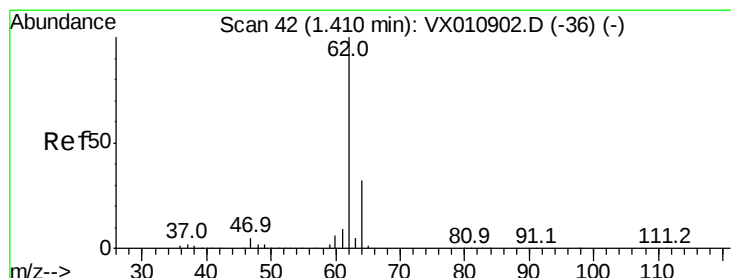
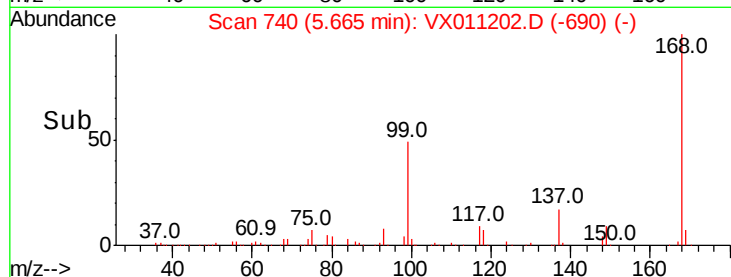
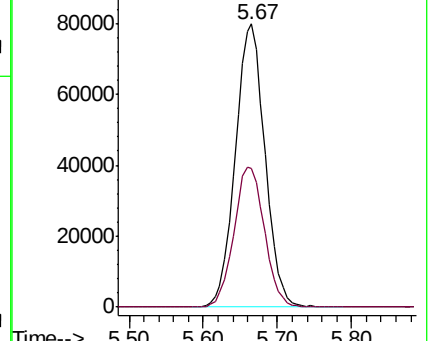
168 100

99 48.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 19.812 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX011202.D

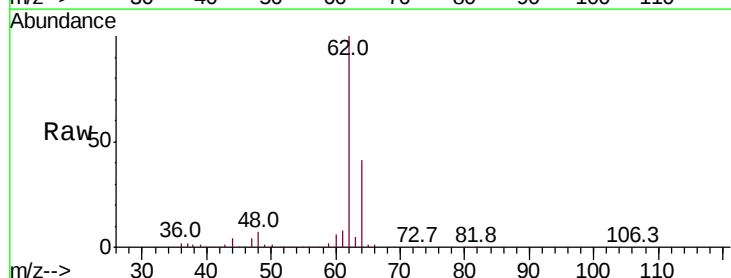
Acq: 30 Jul 2019 18:03

Tgt Ion: 62 Resp: 41279

Ion Ratio Lower Upper

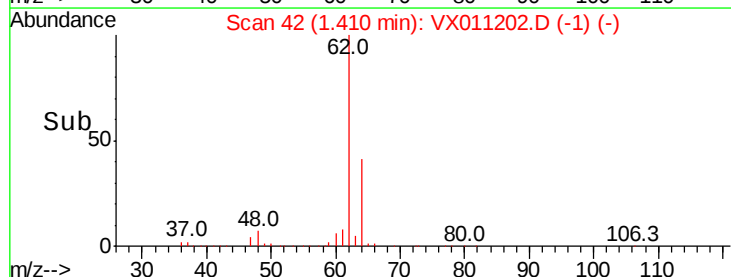
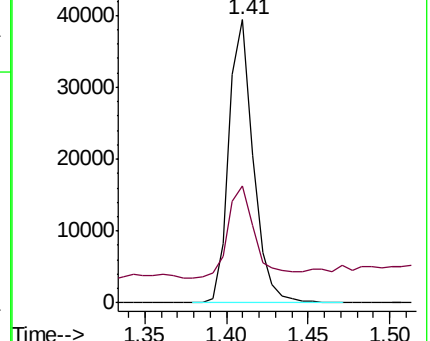
62 100

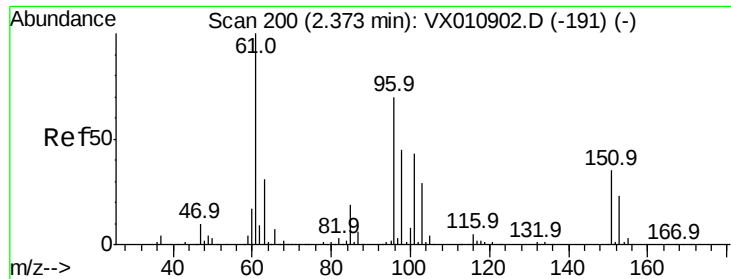
64 32.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#12

1,1-Dichloroethene

Concen: 0.414 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampled :

Z3-0673

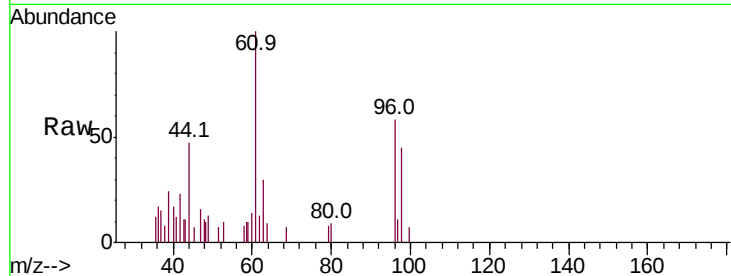
Tot Ion: 96 Resp: 819

Ion Ratio Lower Upper

96 100

61 173.7 115.0 172.4#

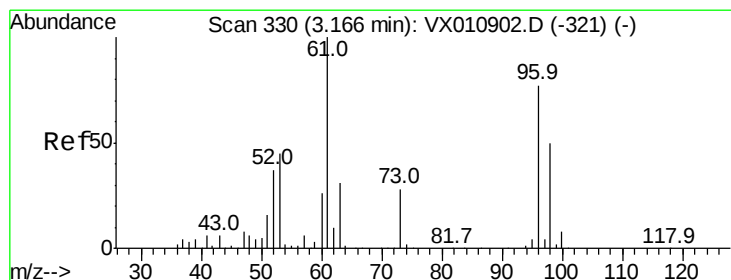
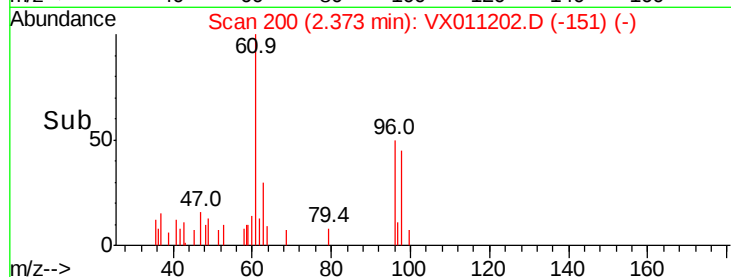
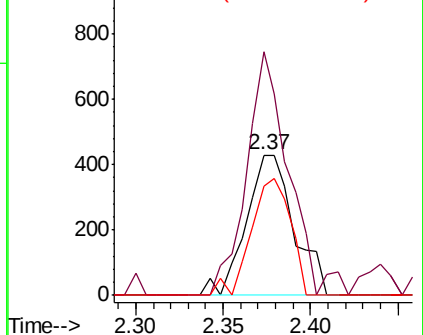
98 77.9 52.2 78.2



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



#21

trans-1,2-Dichloroethene

Concen: 10.438 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

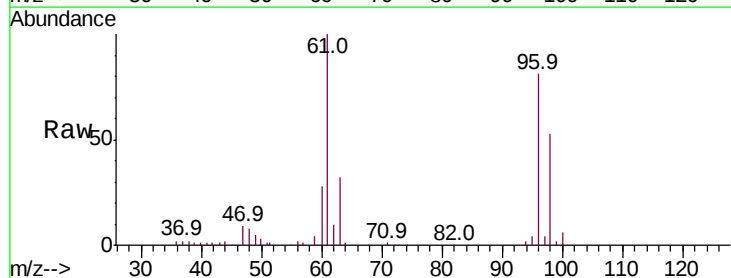
Tgt Ion: 96 Resp: 21913

Ion Ratio Lower Upper

96 100

61 124.2 104.2 156.2

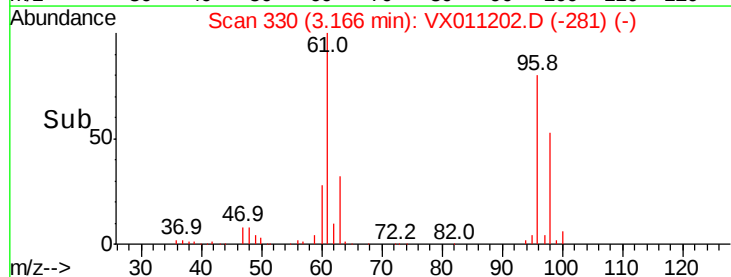
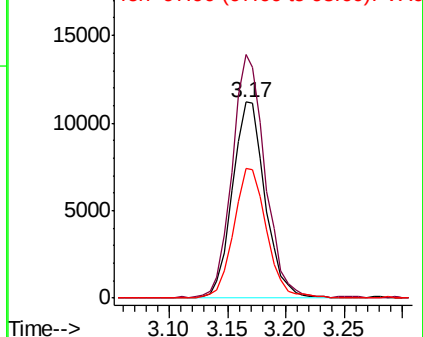
98 66.2 52.2 78.4

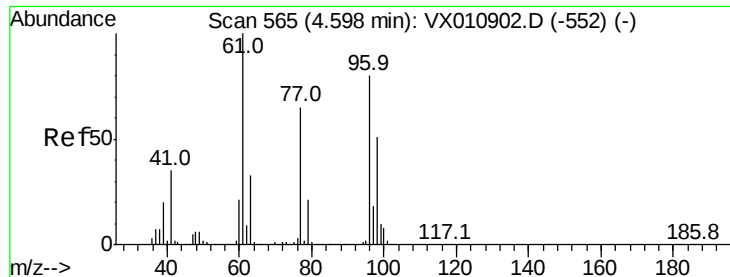


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



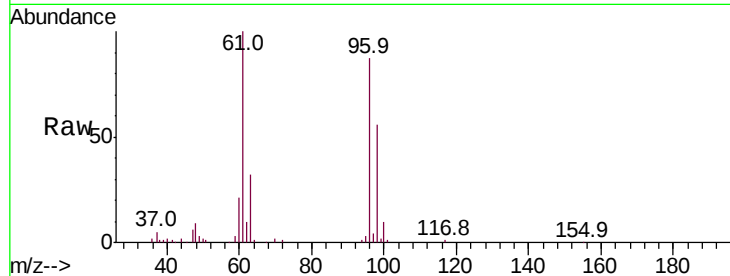


#27

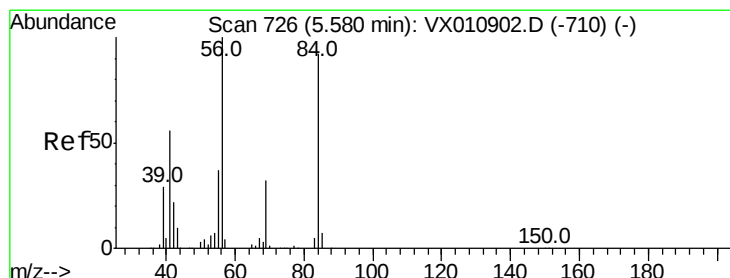
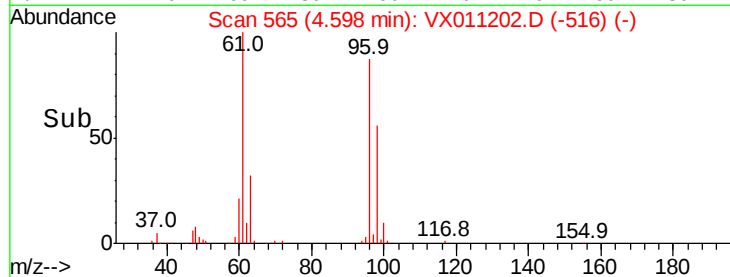
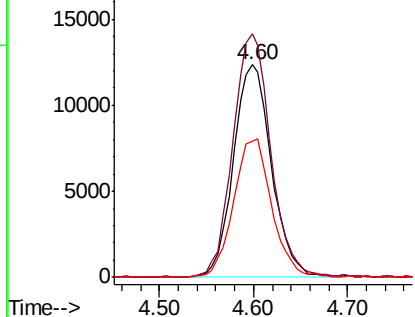
cis-1,2-Dichloroethene
 Concen: 14.373 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX011202.D
 Acq: 30 Jul 2019 18:03

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0673

Tot Ion	96	Resp	34920
Ion	Ratio	Lower	Upper
96	100		
61	114.2	0.0	269.0
98	65.1	0.0	131.4



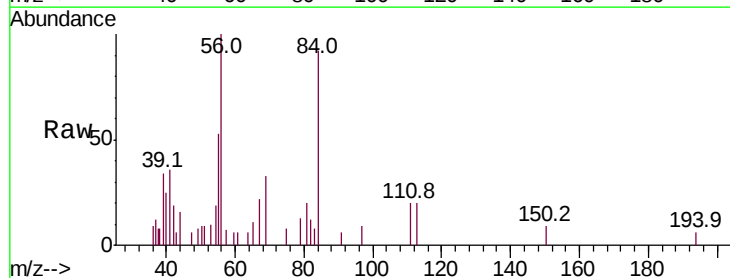
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



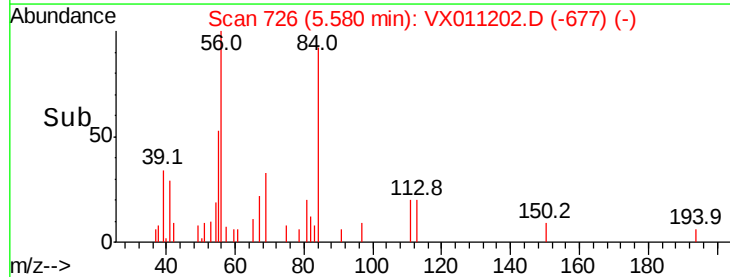
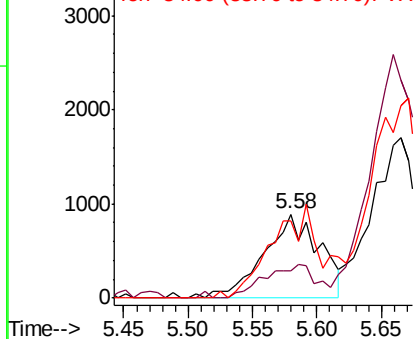
#31

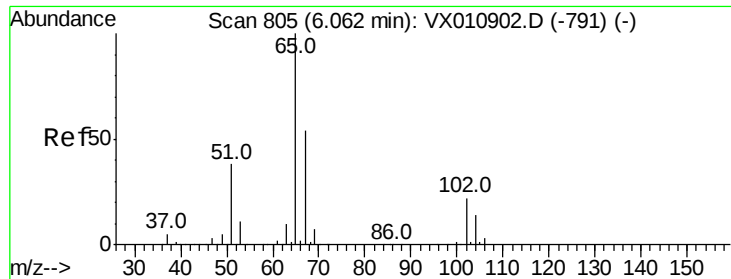
Cyclohexane
 Concen: 0.826 ug/l
 RT: 5.58 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VX011202.D
 Acq: 30 Jul 2019 18:03

Tgt Ion	56	Resp	2651
Ion	Ratio	Lower	Upper
56	100		
69	32.7	25.8	38.8
84	92.3	73.8	110.6



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: 46.470 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

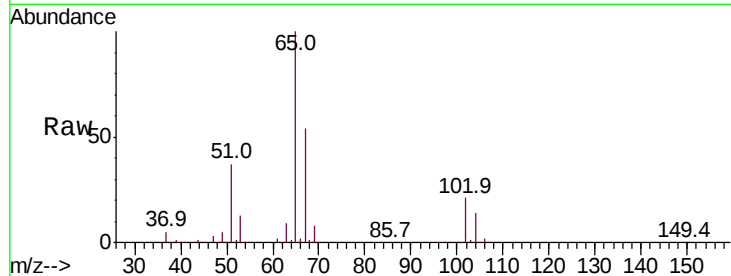
Z3-0673

Tot Ion: 65 Resp: 109813

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX011202.D (-887) (-)

Ion 66.90 (66.60 to 67.60): VX011202.D (-887) (-)

6.06

40000

30000

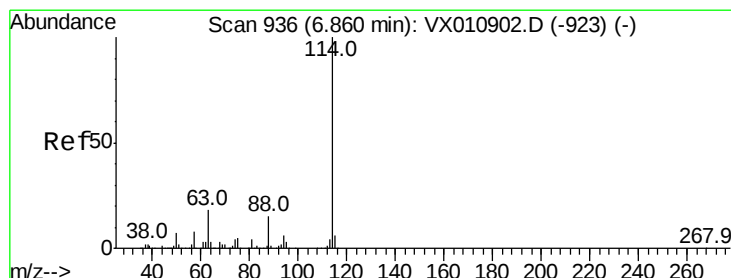
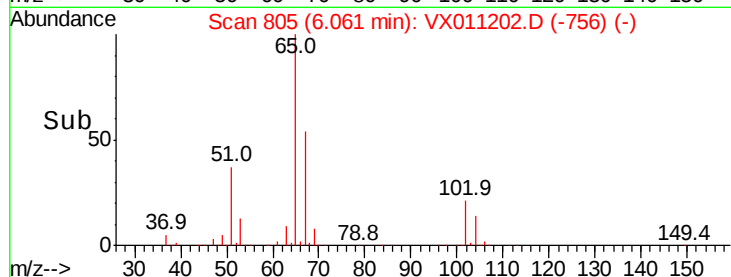
20000

10000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

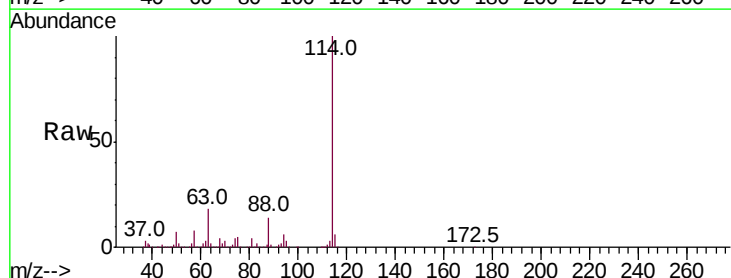
Tgt Ion: 114 Resp: 317326

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

88 14.1 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): VX011202.D (-887) (-)

Ion 63.00 (62.70 to 63.70): VX011202.D (-887) (-)

Ion 87.90 (87.60 to 88.60): VX011202.D (-887) (-)

6.86

150000

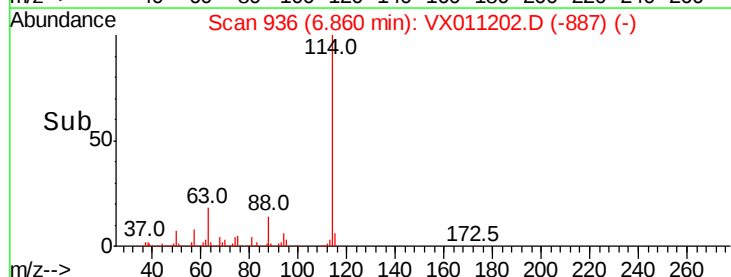
100000

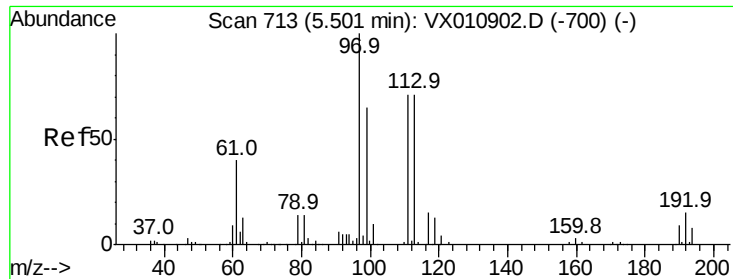
50000

0

6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 47.141 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

Z3-0673

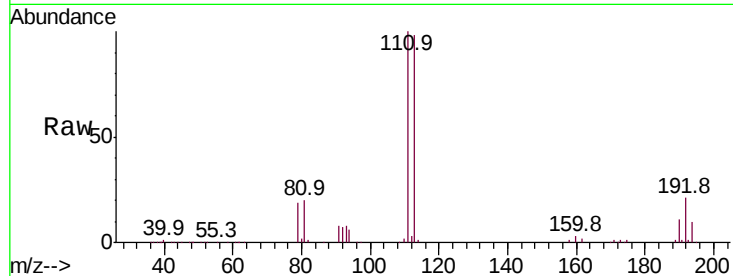
Tot Ion:113 Resp: 94949

Ion Ratio Lower Upper

113 100

111 102.5 82.3 123.5

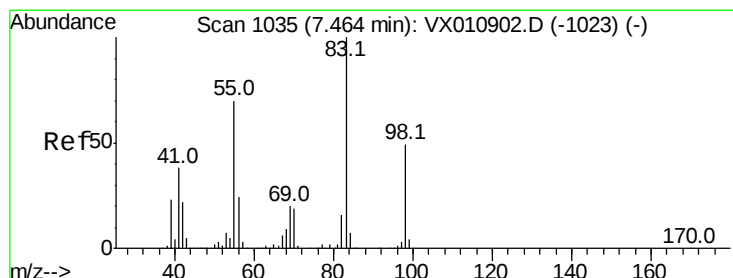
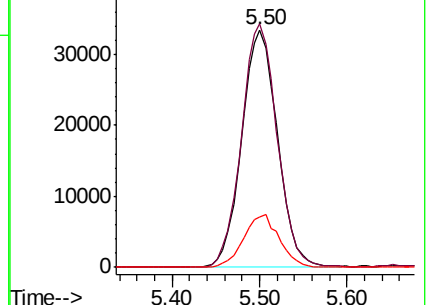
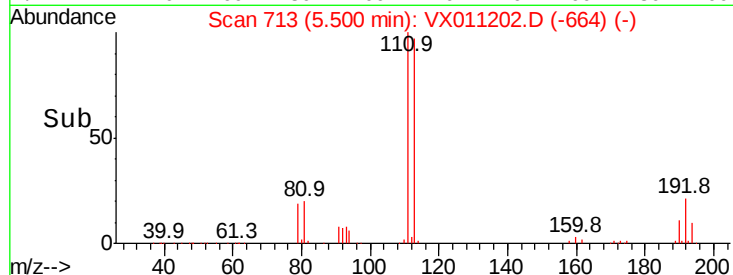
192 22.0 17.4 26.2



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



#39

Methylcyclohexane

Concen: 0.521 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

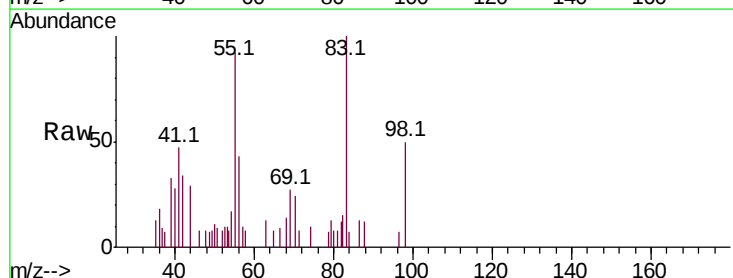
Tgt Ion: 83 Resp: 1762

Ion Ratio Lower Upper

83 100

55 92.1 56.2 84.4#

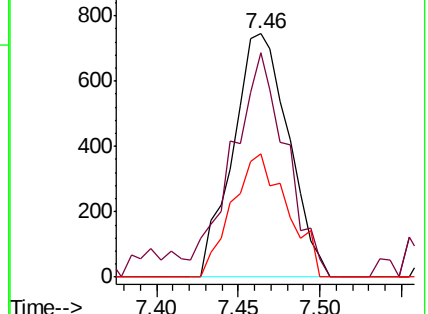
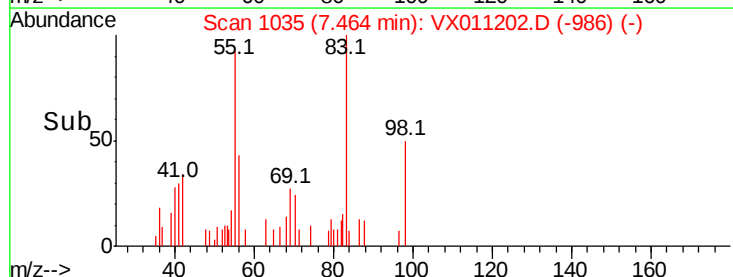
98 50.5 39.0 58.4

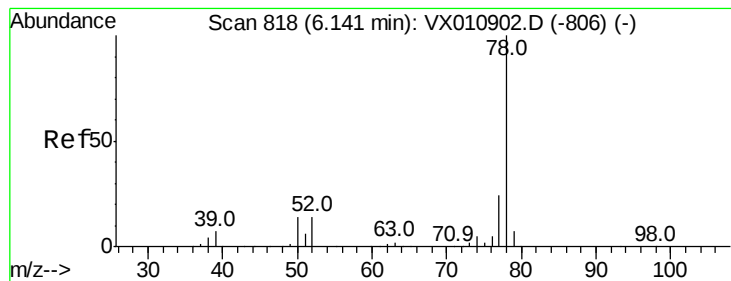


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 8.334 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

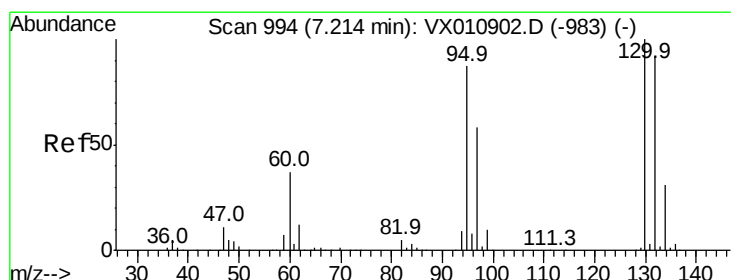
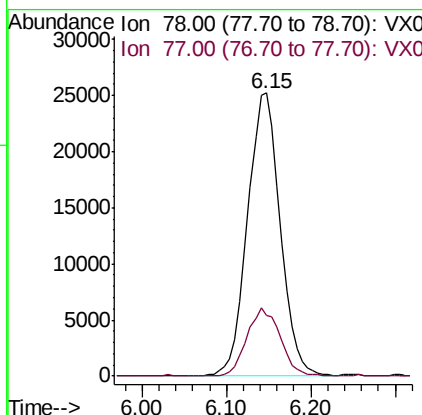
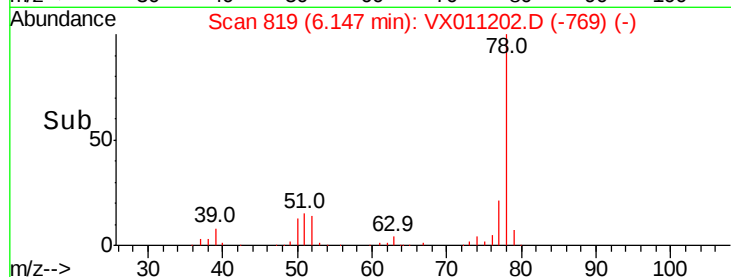
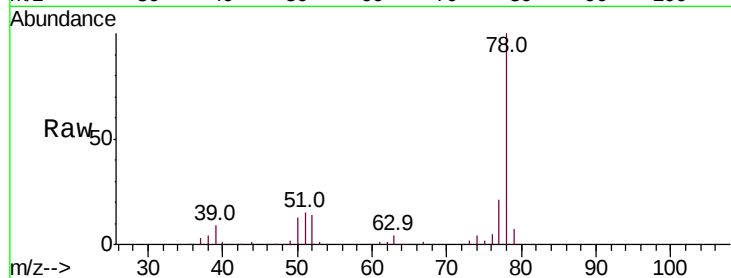
Z3-0673

Tot Ion: 78 Resp: 66540

Ion Ratio Lower Upper

78 100

77 21.4 19.0 28.6



#44

Trichloroethene

Concen: 1.050 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX011202.D

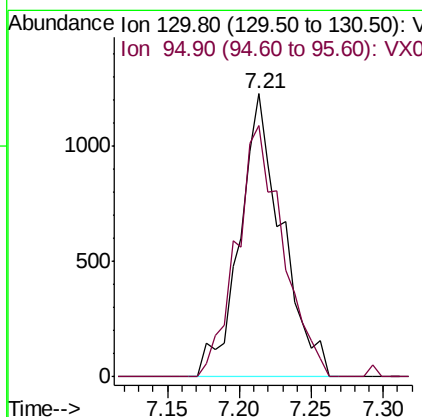
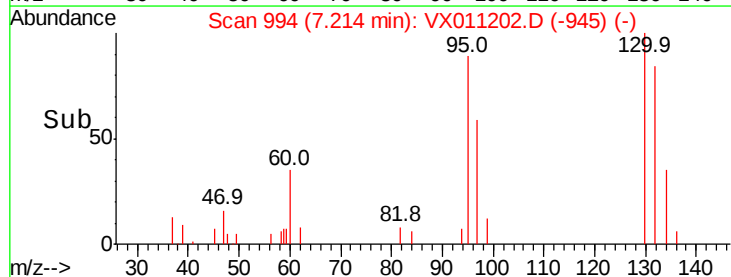
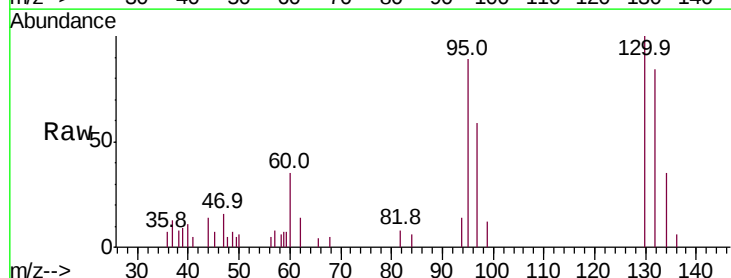
Acq: 30 Jul 2019 18:03

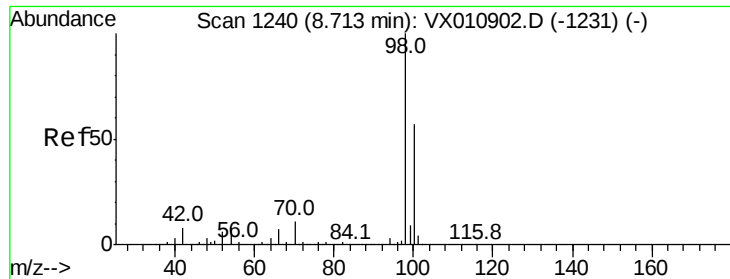
Tgt Ion:130 Resp: 2482

Ion Ratio Lower Upper

130 100

95 88.9 0.0 174.8





#50

Toluene-d8

Concen: 49.018 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampled :

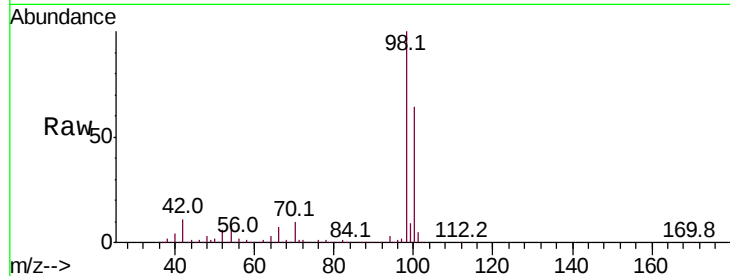
Z3-0673

Tot Ion: 98 Resp: 370299

Ion Ratio Lower Upper

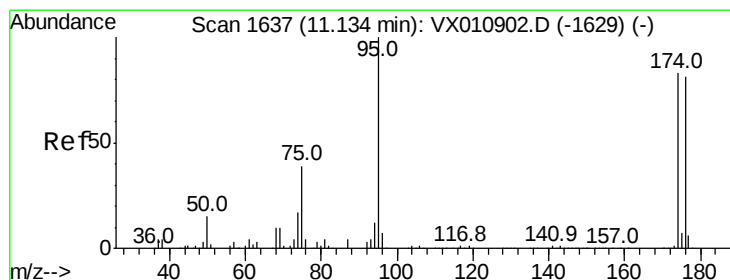
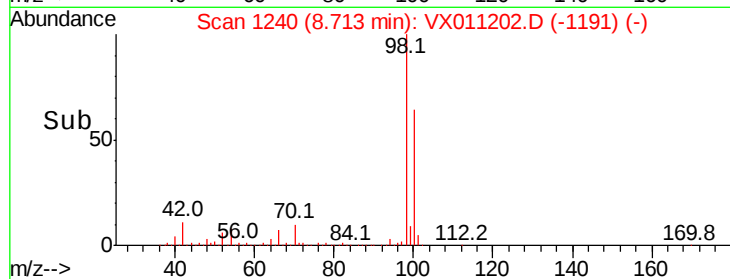
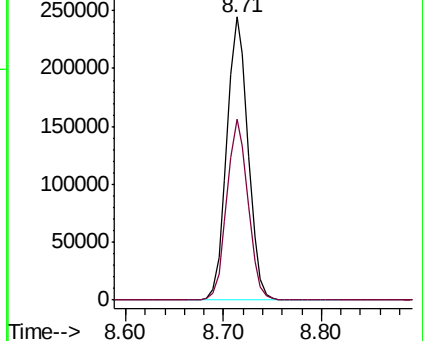
98 100

100 63.8 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V>



#62

4-Bromofluorobenzene

Concen: 44.628 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

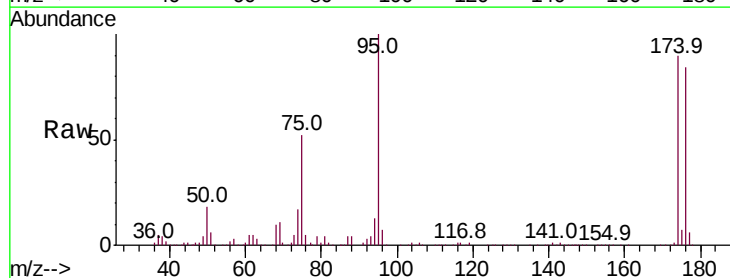
Tgt Ion: 95 Resp: 123920

Ion Ratio Lower Upper

95 100

174 91.2 0.0 180.6

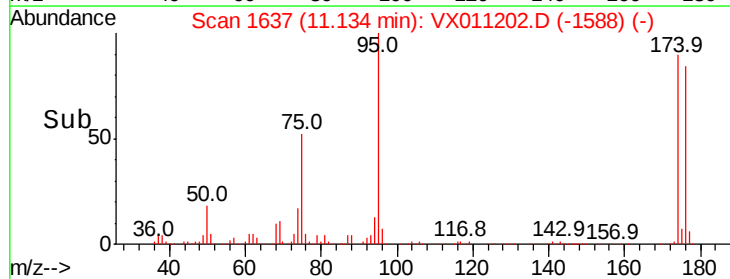
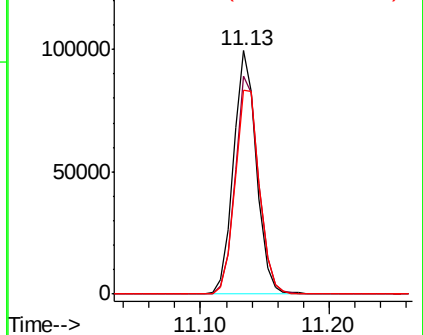
176 89.0 0.0 173.8

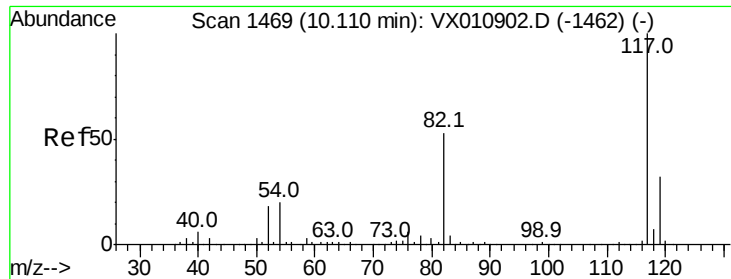


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

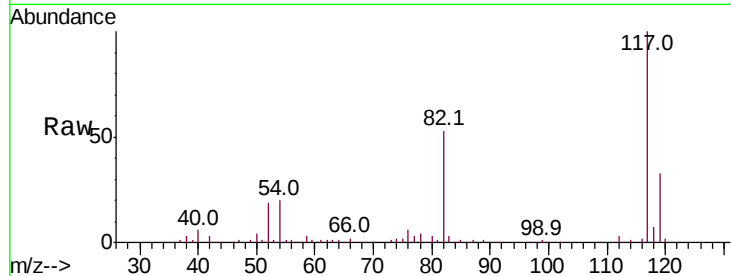




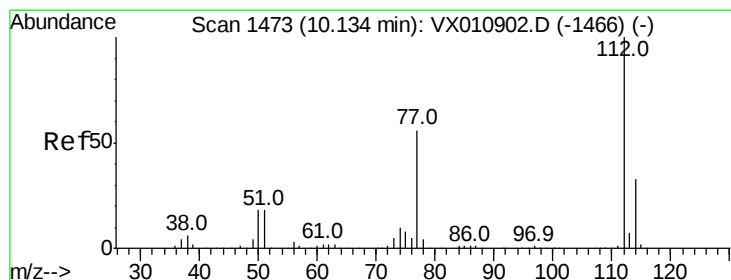
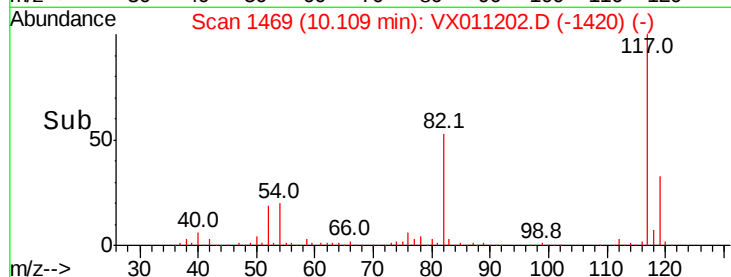
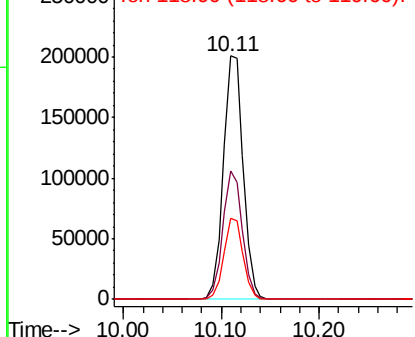
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011202.D
Acq: 30 Jul 2019 18:03

Instrument :
MSVOA_X
ClientSampleId :
Z3-0673

Tot Ion:117 Resp: 281415
Ion Ratio Lower Upper
117 100
82 53.0 42.6 63.8
119 33.1 25.9 38.9

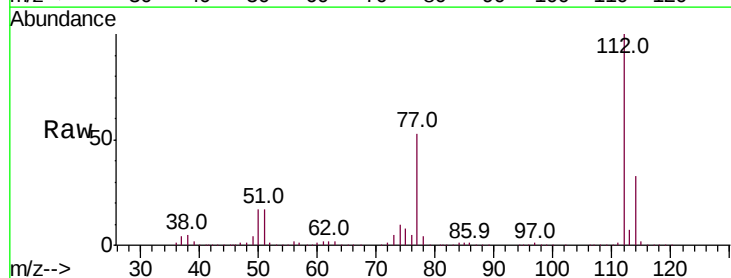


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

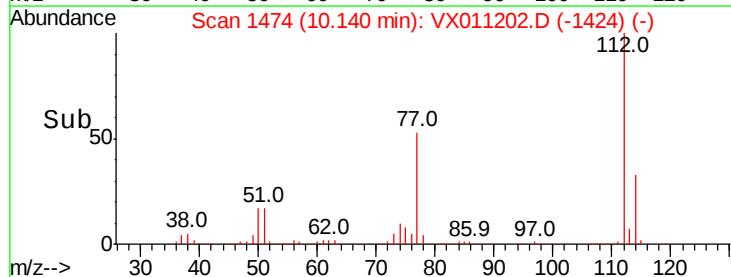
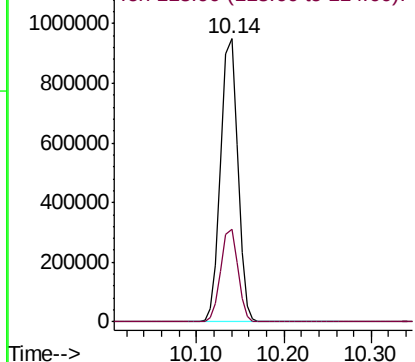


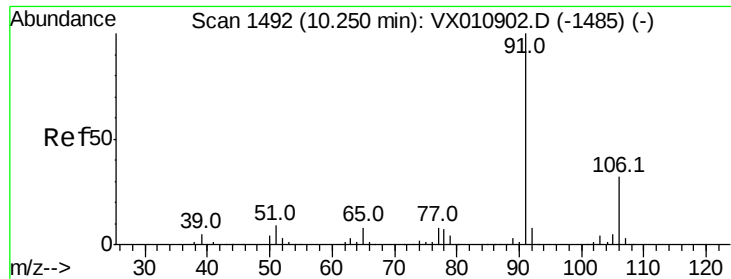
#65
Chlorobenzene
Concen: 223.076 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX011202.D
Acq: 30 Jul 2019 18:03

Tgt Ion:112 Resp: 1289381
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 1.575 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampled :

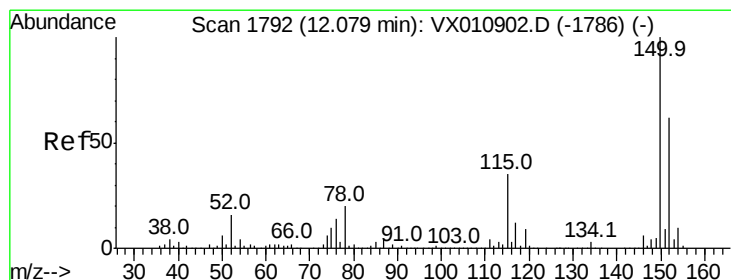
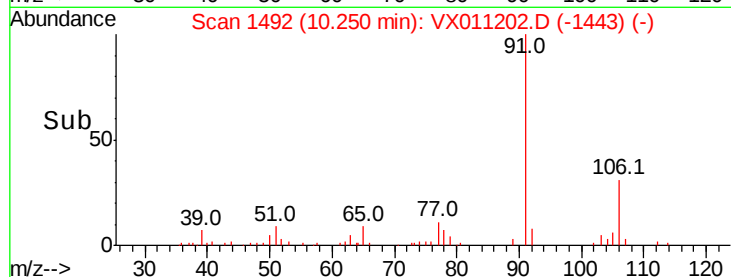
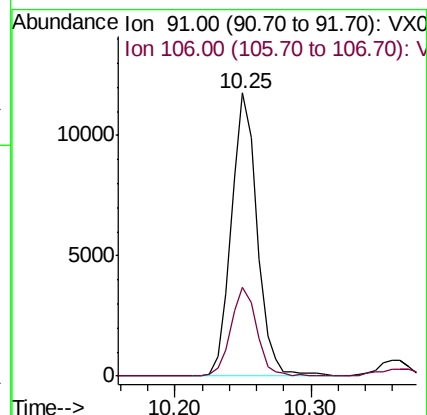
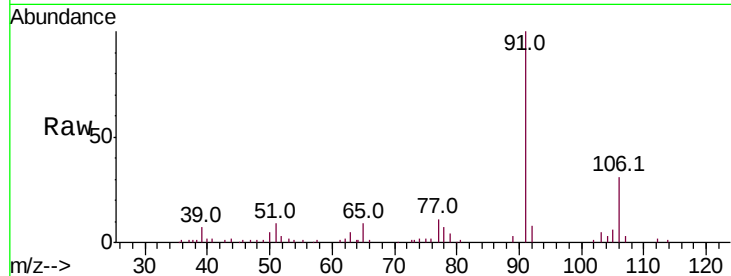
Z3-0673

Tot Ion: 91 Resp: 15499

Ion Ratio Lower Upper

91 100

106 31.5 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

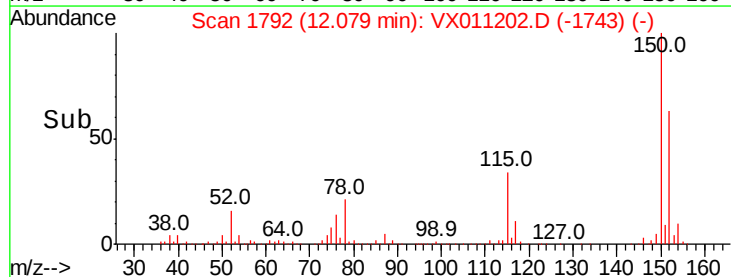
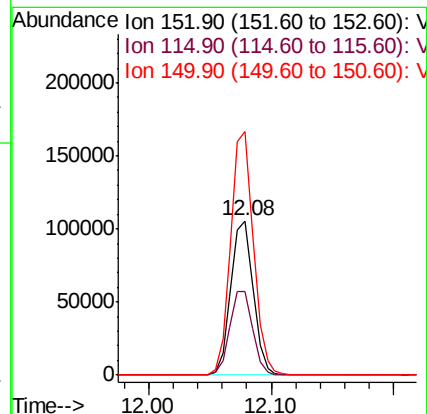
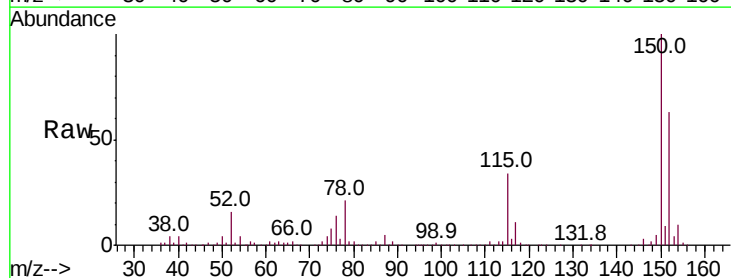
Tgt Ion: 152 Resp: 133214

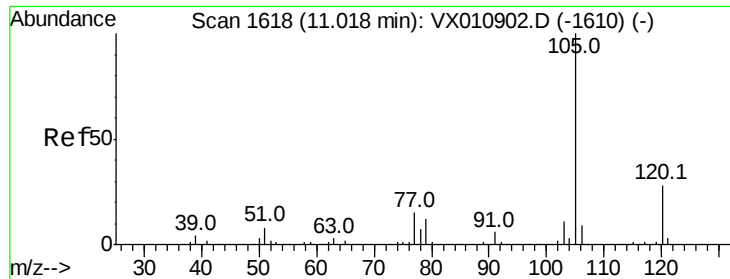
Ion Ratio Lower Upper

152 100

115 55.7 39.7 119.1

150 159.9 0.0 345.6





#73

Isopropylbenzene

Concen: 0.593 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampled :

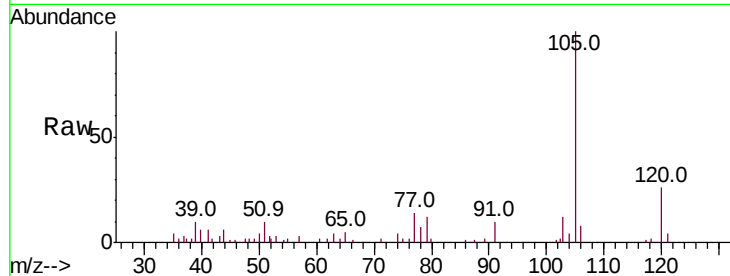
Z3-0673

Tot Ion:105 Resp: 5337

Ion Ratio Lower Upper

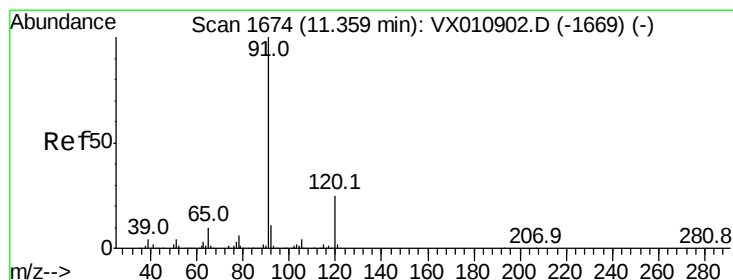
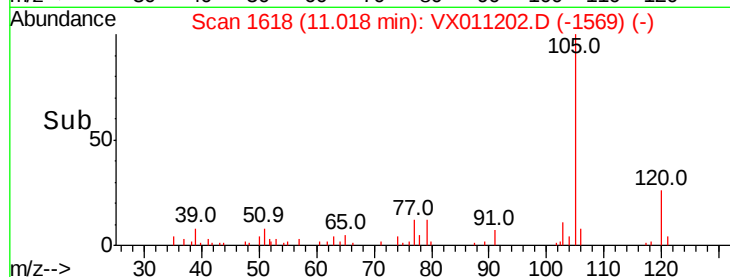
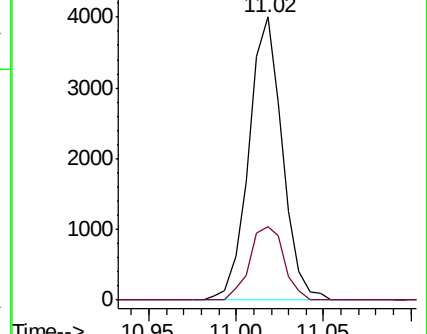
105 100

120 26.7 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 0.210 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX011202.D

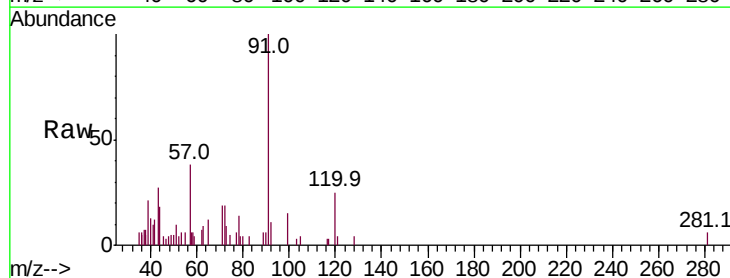
Acq: 30 Jul 2019 18:03

Tgt Ion: 91 Resp: 2089

Ion Ratio Lower Upper

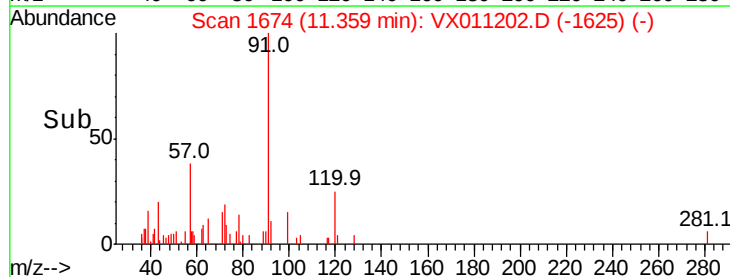
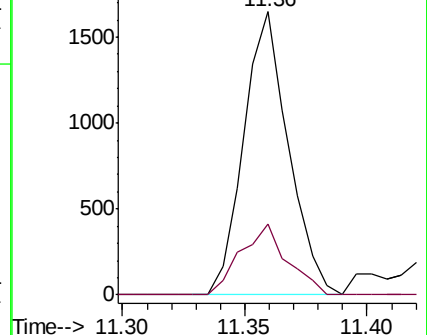
91 100

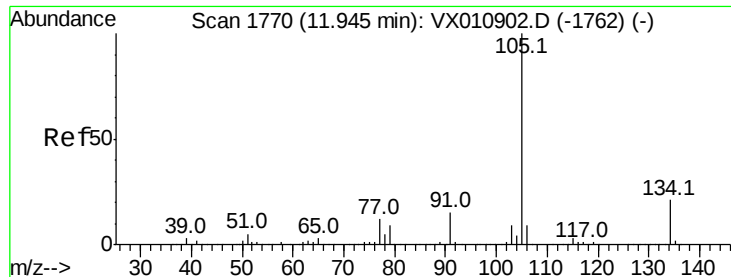
120 26.2 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.432 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

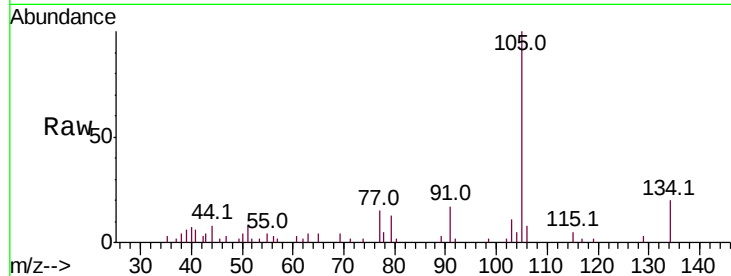
Z3-0673

Tot Ion:105 Resp: 3741

Ion Ratio Lower Upper

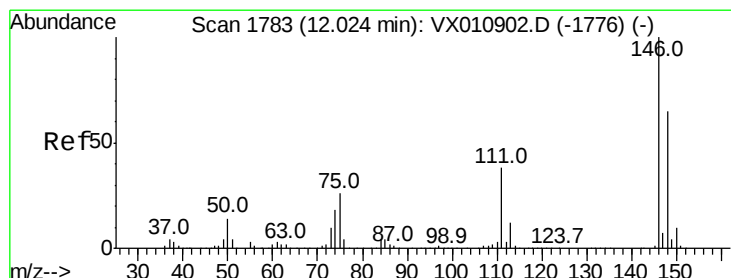
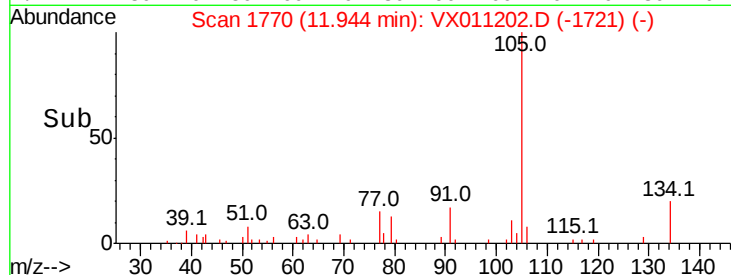
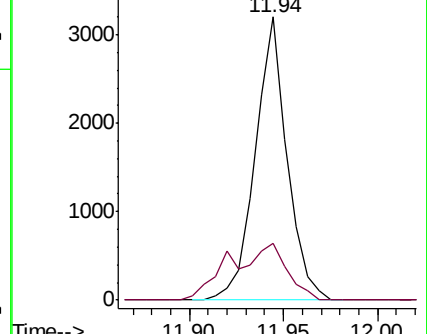
105 100

134 21.9 10.4 31.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 1.140 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

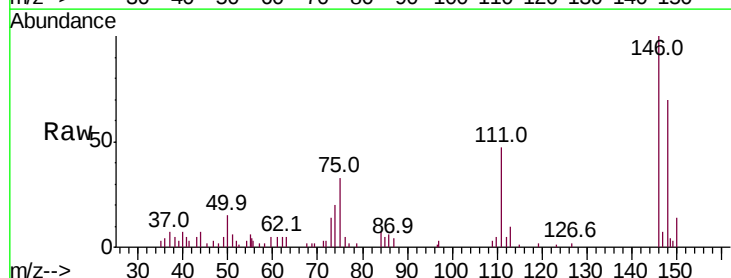
Tgt Ion:146 Resp: 4910

Ion Ratio Lower Upper

146 100

111 41.0 18.9 56.9

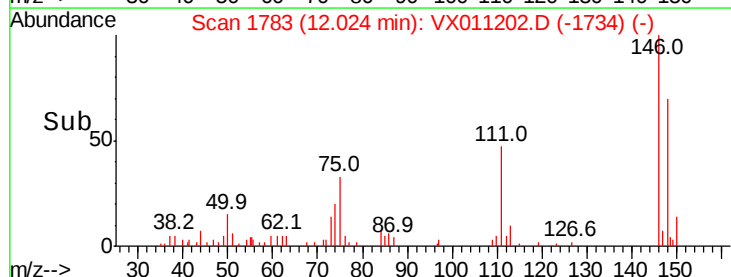
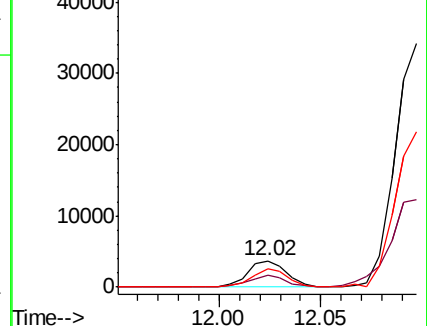
148 64.8 32.2 96.6

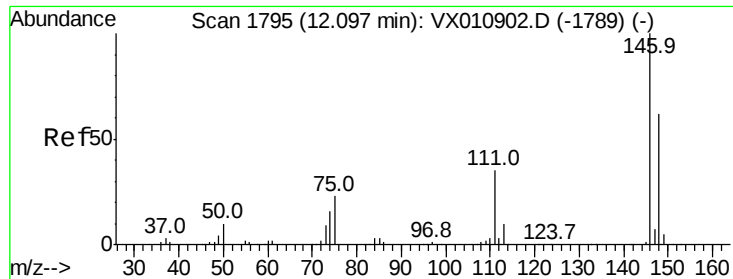


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 9.456 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

Z3-0673

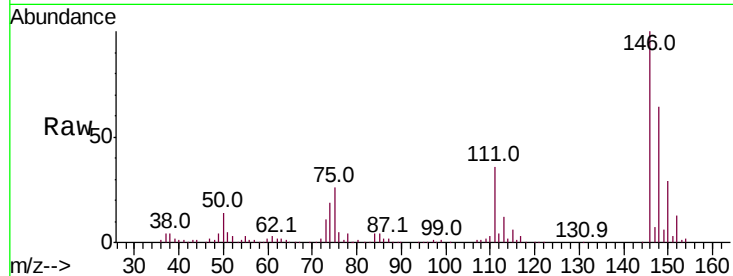
Tot Ion:146 Resp: 41786

Ion Ratio Lower Upper

146 100

111 41.1 18.6 55.8

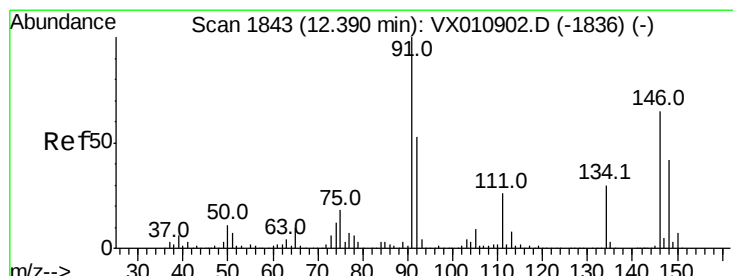
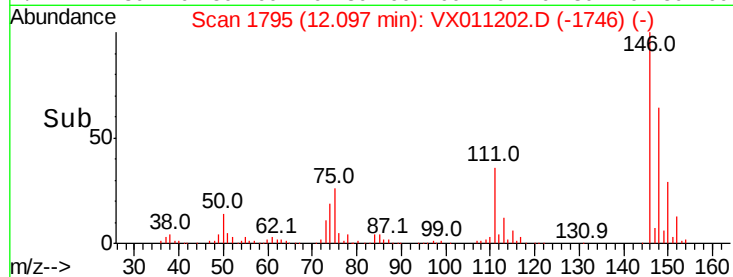
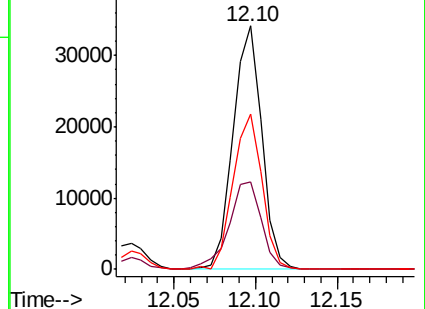
148 64.3 31.6 94.7



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



#91

1,2-Dichlorobenzene

Concen: 0.508 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX011202.D

Acq: 30 Jul 2019 18:03

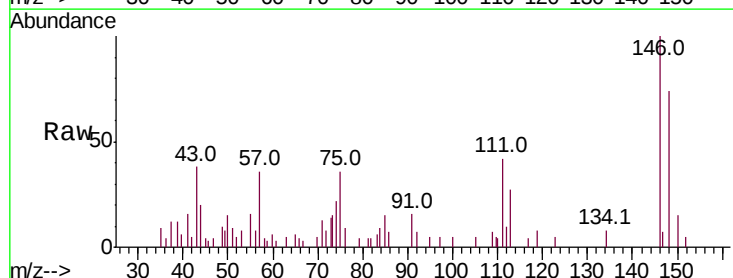
Tgt Ion:146 Resp: 2169

Ion Ratio Lower Upper

146 100

111 38.9 19.9 59.7

148 61.4 32.0 96.2



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

