

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071519\
 Data File : VX010876.D
 Acq On : 15 Jul 2019 11:59
 Operator : JC/SP
 Sample : K3779-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 390711759.3-VOA

Quant Time: Jul 16 11:16:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	233206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	365898	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	336754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	162520	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	121815	55.71	ug/l	0.00
Spiked Amount			Recovery	=	111.42%	
35) Dibromofluoromethane	5.50	113	115202	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
50) Toluene-d8	8.71	98	433770	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	11.13	95	155780	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	

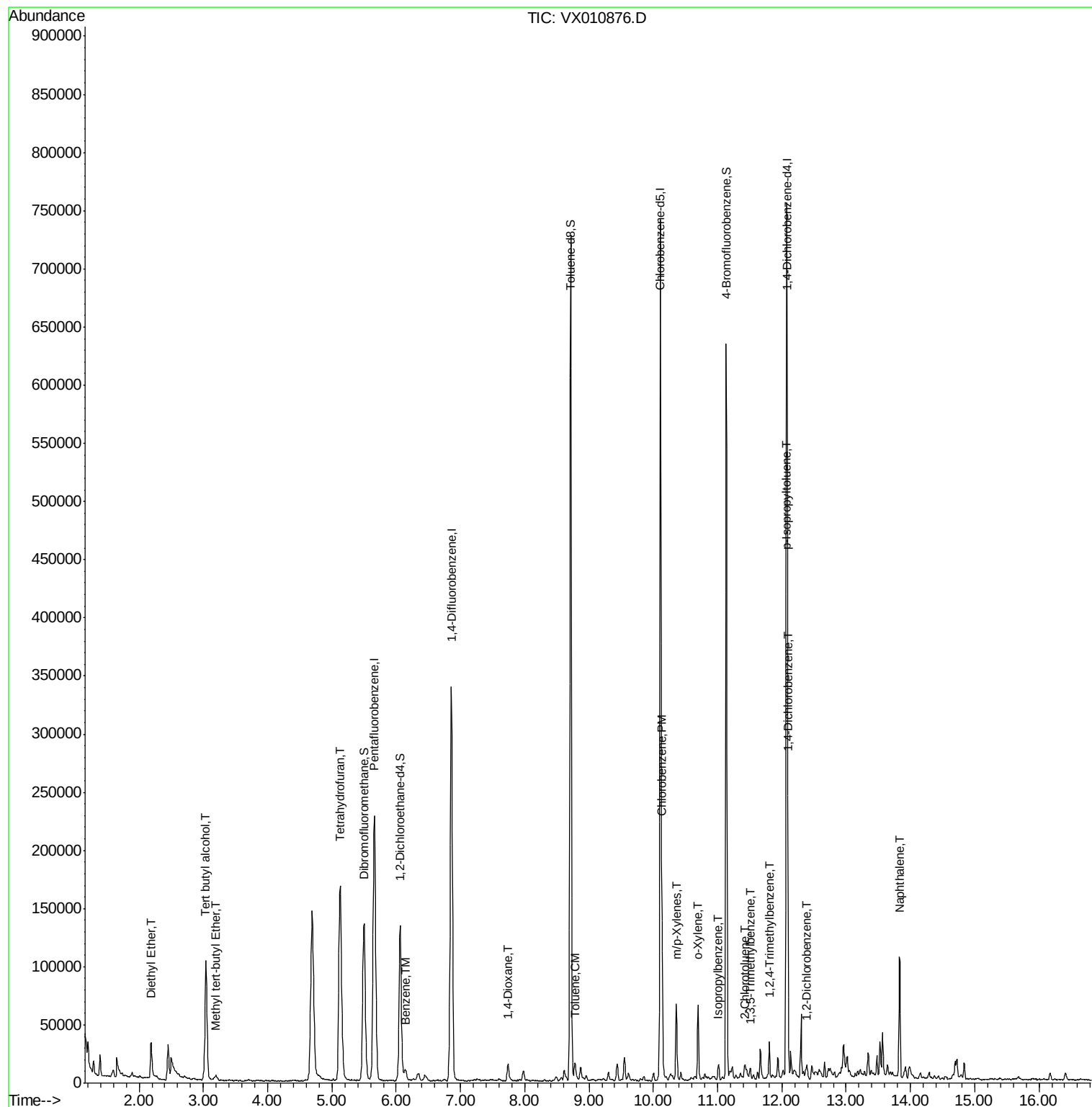
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	10716	9.116	ug/l	100
11) Tert butyl alcohol	3.04	59	126532	221.153	ug/l	98
19) Methyl tert-butyl Ether	3.20	73	4920	0.774	ug/l #	80
29) Tetrahydrofuran	5.13	42	153989	154.660	ug/l	98
40) Benzene	6.14	78	10968	1.211	ug/l	100
49) 1,4-Dioxane	7.74	88	12032	181.568	ug/l	96
52) Toluene	8.79	92	4066	0.682	ug/l	85
65) Chlorobenzene	10.13	112	50817	7.433	ug/l	97
68) m/p-Xylenes	10.36	106	14299	3.197	ug/l	99
69) o-Xylene	10.69	106	14162	3.220	ug/l	97
73) Isopropylbenzene	11.02	105	6276	0.570	ug/l	98
79) 2-Chlorotoluene	11.42	91	4264	0.591	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	2992	0.329	ug/l	91
84) 1,2,4-Trimethylbenzene	11.80	105	13392	1.468	ug/l	95
86) p-Isopropyltoluene	12.06	119	4345	0.439	ug/l #	81
88) 1,4-Dichlorobenzene	12.10	146	38430	7.030	ug/l	95
91) 1,2-Dichlorobenzene	12.39	146	2478	0.464	ug/l	90
95) Naphthalene	13.83	128	64794	5.697	ug/l	100

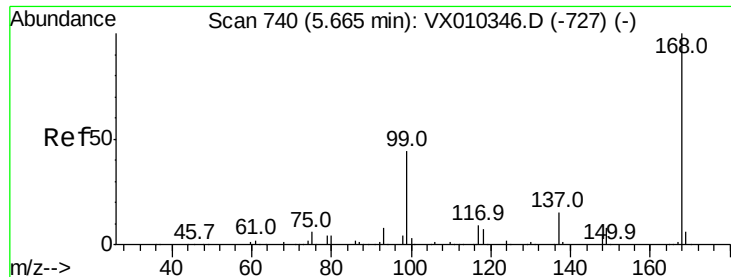
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

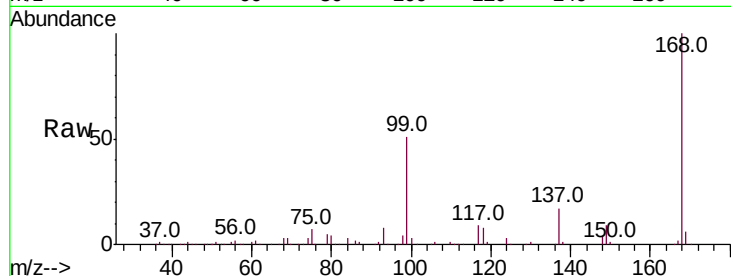
390711759.3-VOA

Tot Ion:168 Resp: 233206

Ion Ratio Lower Upper

168 100

99 50.7 35.5 53.3

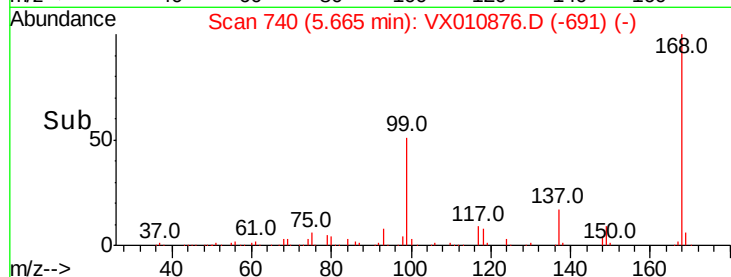


Abundance Ion 167.90 (167.60 to 168.60): V

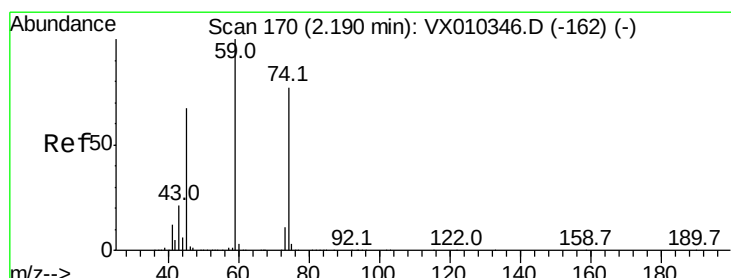
Ion 98.90 (98.60 to 99.60): VX0

5.67

Time-->



Time-->



#8

Diethyl Ether

Concen: 9.116 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010876.D

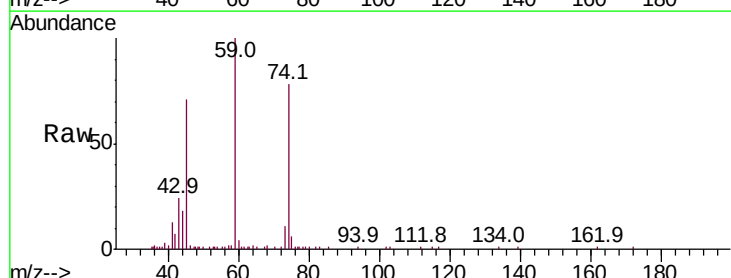
Acq: 15 Jul 2019 11:59

Tgt Ion: 74 Resp: 10716

Ion Ratio Lower Upper

74 100

45 90.0 44.8 134.4

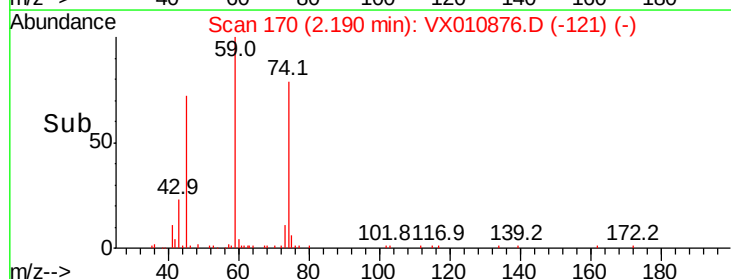


Abundance Ion 74.00 (73.70 to 74.70): VX0

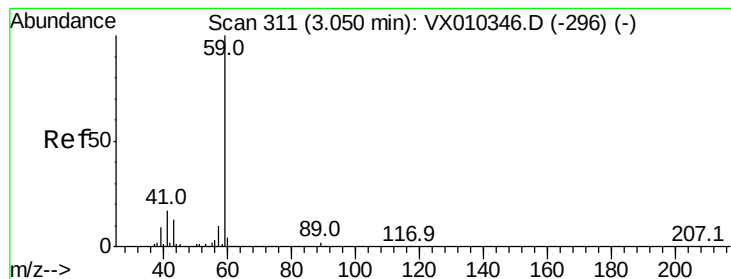
Ion 45.00 (44.70 to 45.70): VX0

2.19

Time-->



Time-->



#11

Tert butyl alcohol

Concen: 221.153 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

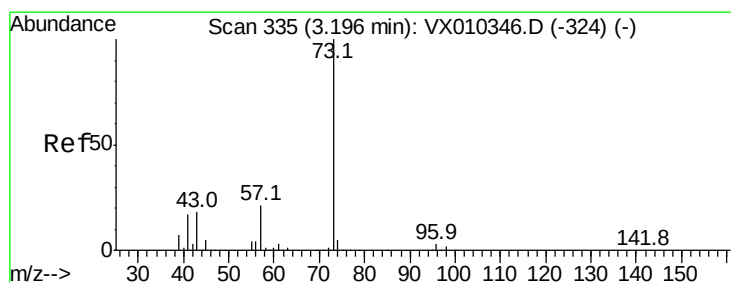
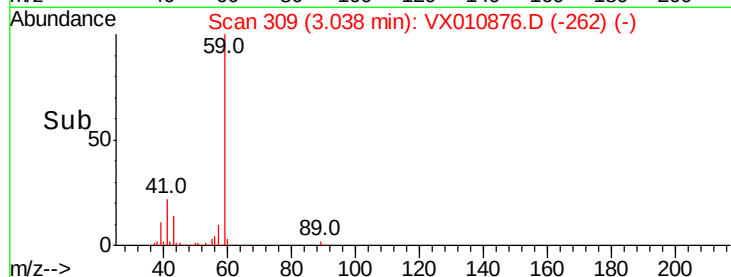
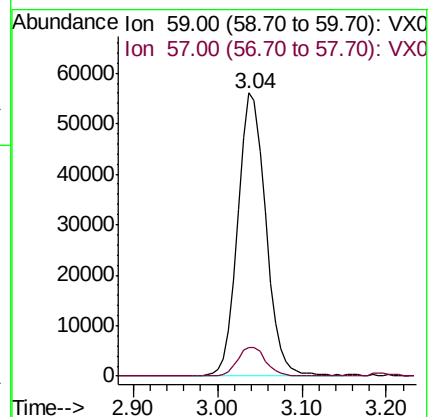
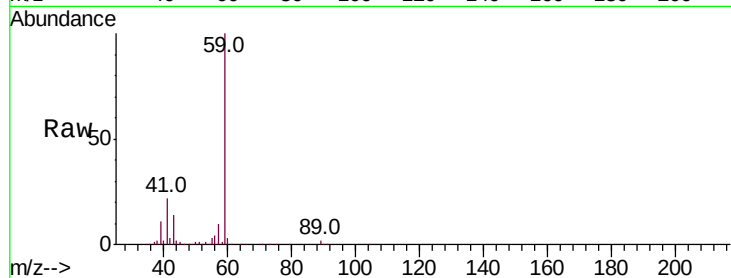
390711759.3-VOA

Tot Ion: 59 Resp: 126532

Ion Ratio Lower Upper

59 100

57 10.5 7.7 11.5



#19

Methyl tert-butyl Ether

Concen: 0.774 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.00 min

Lab File: VX010876.D

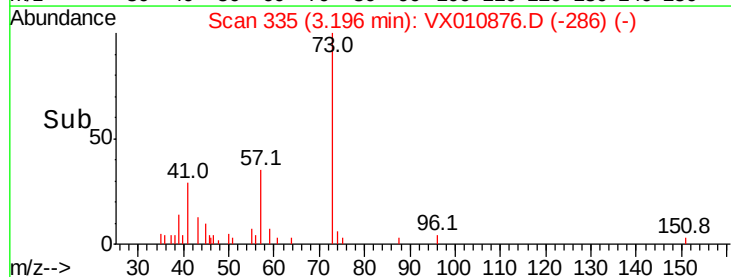
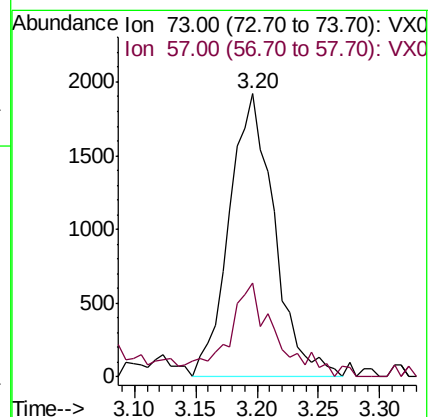
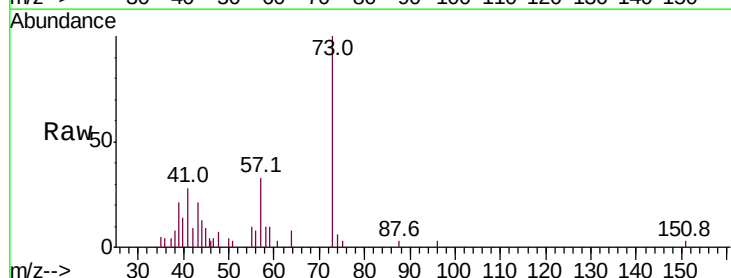
Acq: 15 Jul 2019 11:59

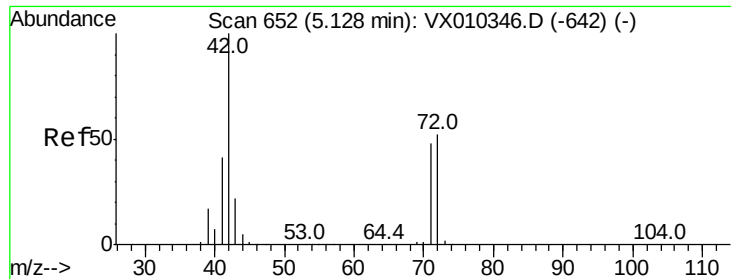
Tgt Ion: 73 Resp: 4920

Ion Ratio Lower Upper

73 100

57 29.6 16.4 24.6#





#29

Tetrahydrofuran

Concen: 154.660 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

390711759.3-VOA

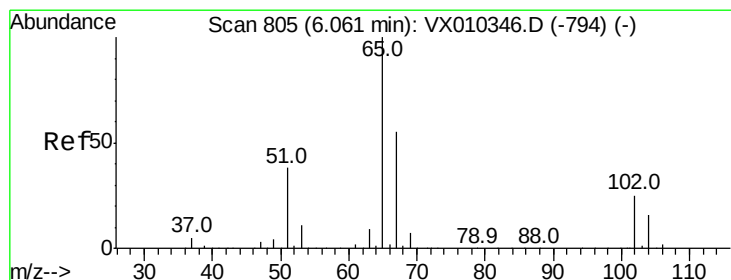
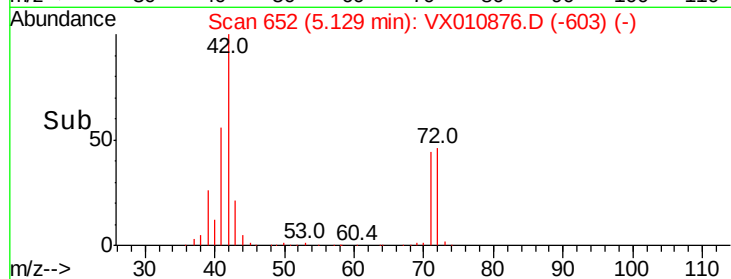
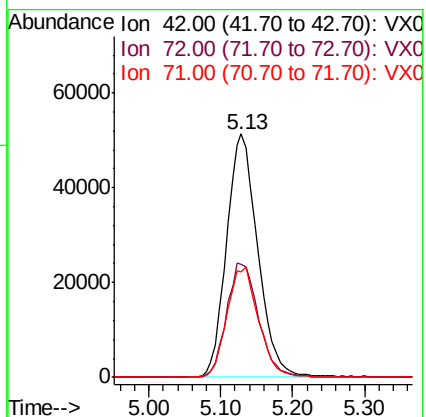
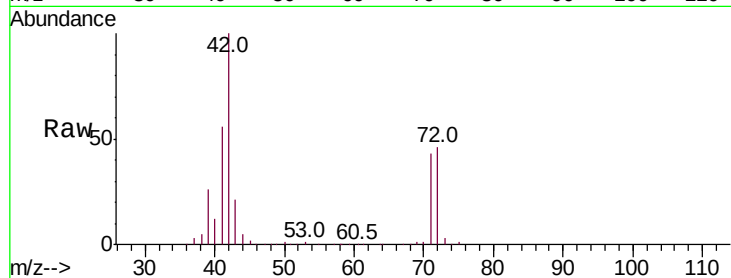
Tot Ion: 42 Resp: 153989

Ion Ratio Lower Upper

42 100

72 48.6 40.6 60.8

71 46.3 37.8 56.8



#33

1,2-Dichloroethane-d4

Concen: 55.711 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010876.D

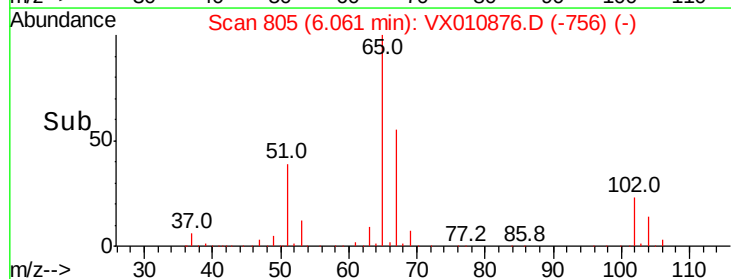
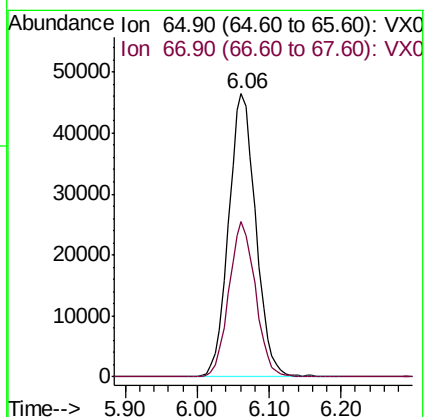
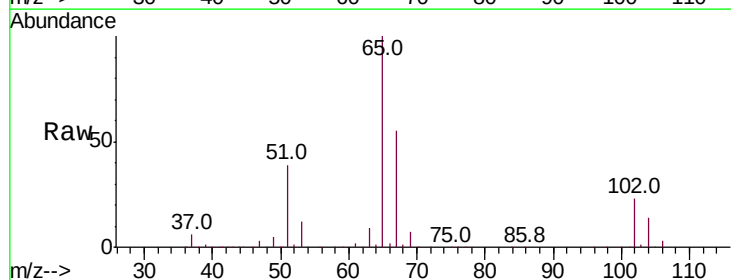
Acq: 15 Jul 2019 11:59

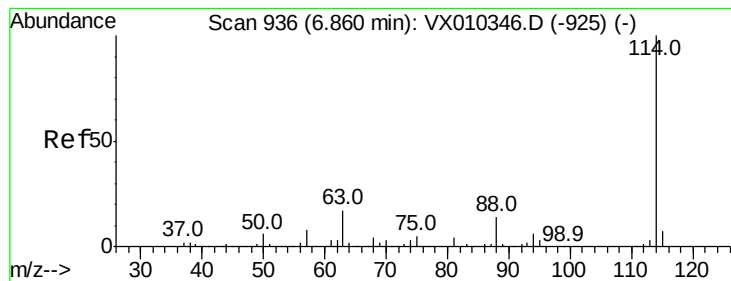
Tgt Ion: 65 Resp: 121815

Ion Ratio Lower Upper

65 100

67 53.5 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

390711759.3-VOA

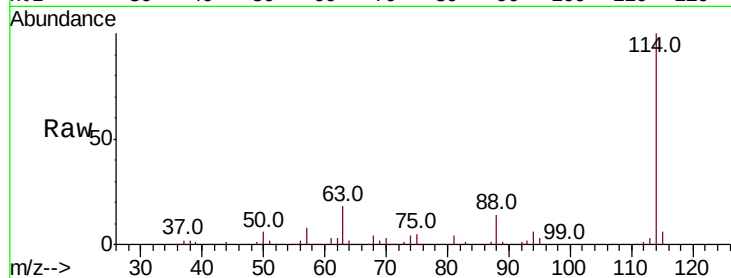
Tot Ion:114 Resp: 365898

Ion Ratio Lower Upper

114 100

63 18.2 0.0 33.8

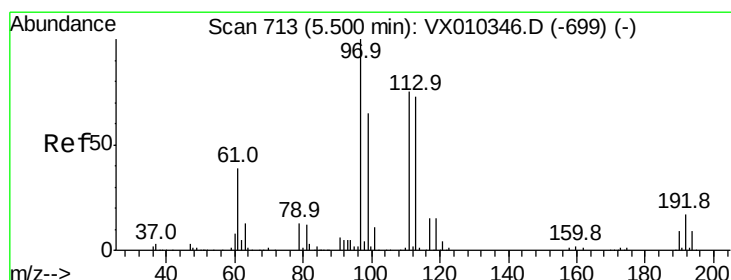
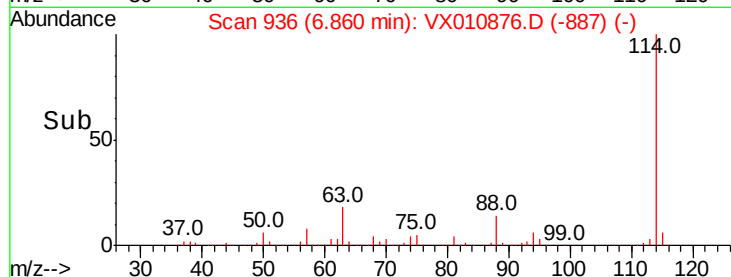
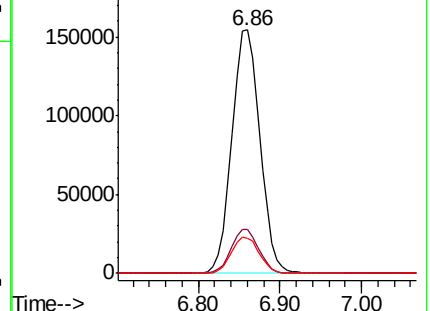
88 14.5 0.0 27.6



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: 51.459 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

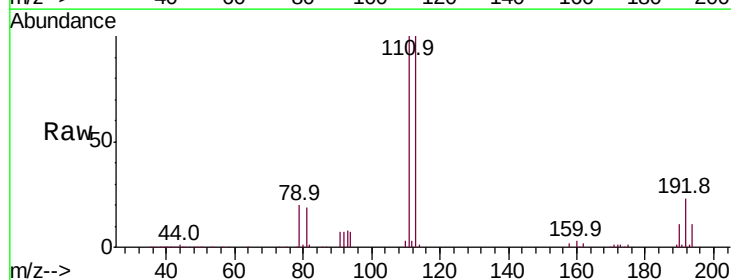
Tgt Ion:113 Resp: 115202

Ion Ratio Lower Upper

113 100

111 101.7 81.2 121.8

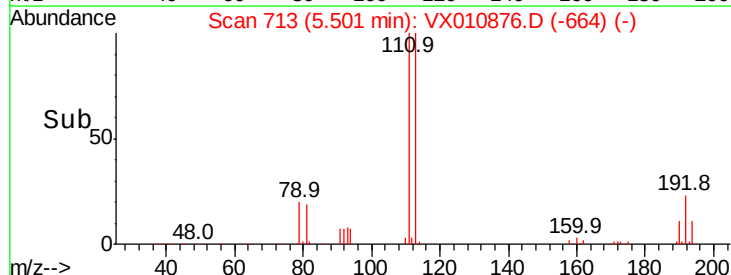
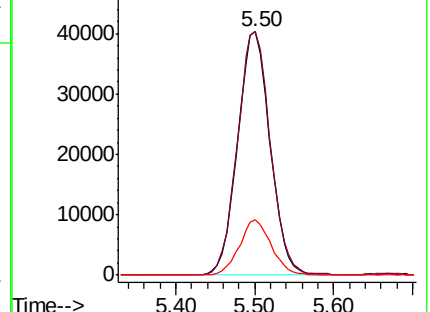
192 22.3 18.6 27.8

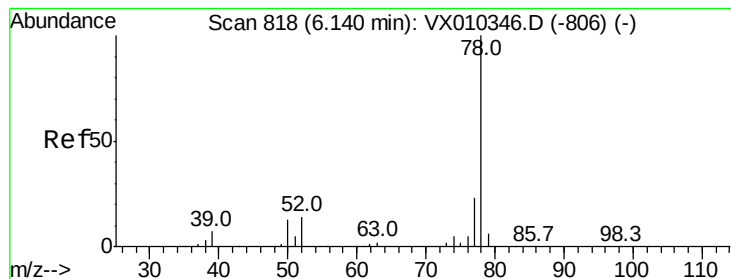


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 1.211 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

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ClientSampleId :

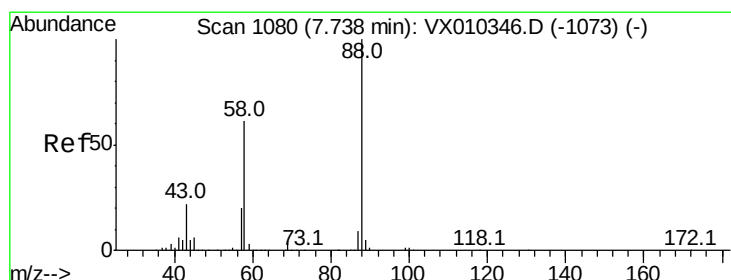
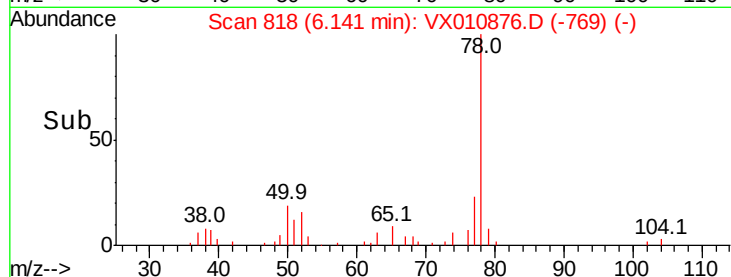
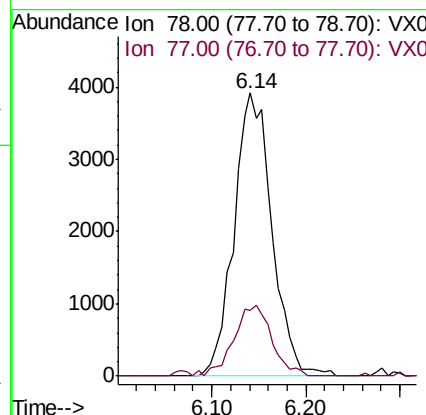
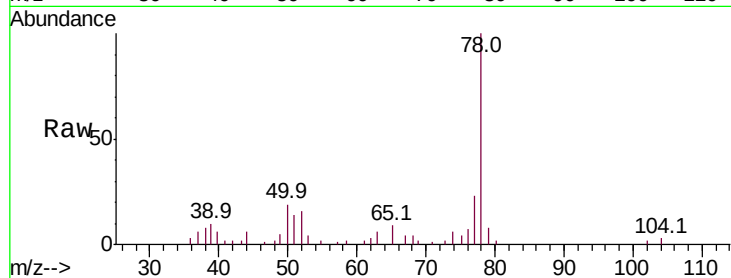
390711759.3-VOA

Tot Ion: 78 Resp: 10968

Ion Ratio Lower Upper

78 100

77 23.4 18.6 28.0



#49

1,4-Dioxane

Concen: 181.568 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

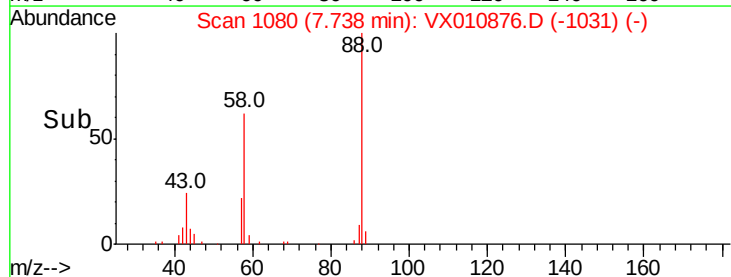
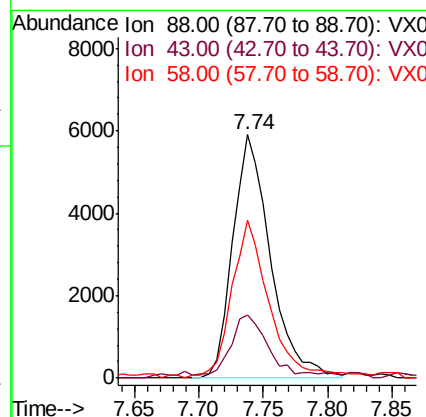
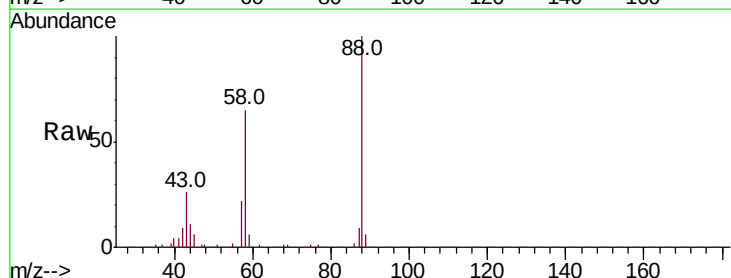
Tgt Ion: 88 Resp: 12032

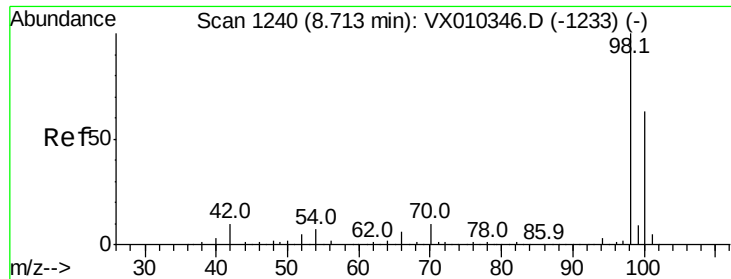
Ion Ratio Lower Upper

88 100

43 24.0 20.2 30.2

58 65.5 49.5 74.3

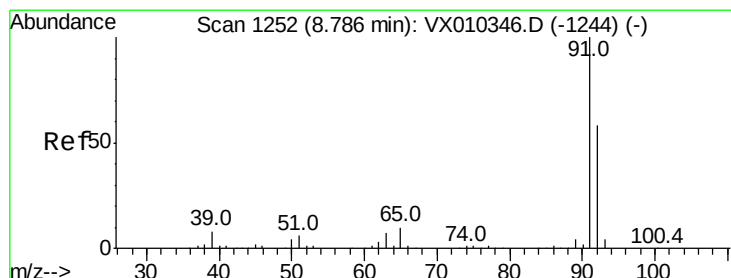
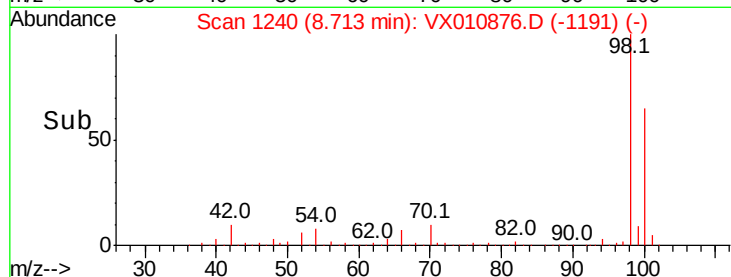
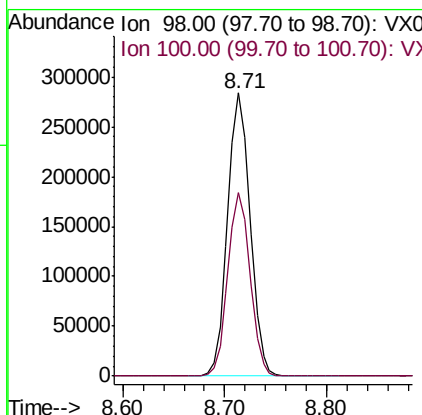
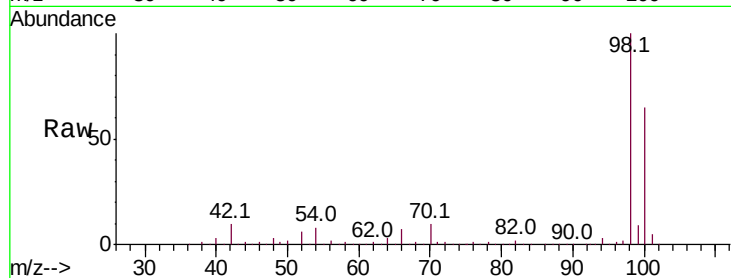




#50
Toluene-d8
Concen: 50.646 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010876.D
Acq: 15 Jul 2019 11:59

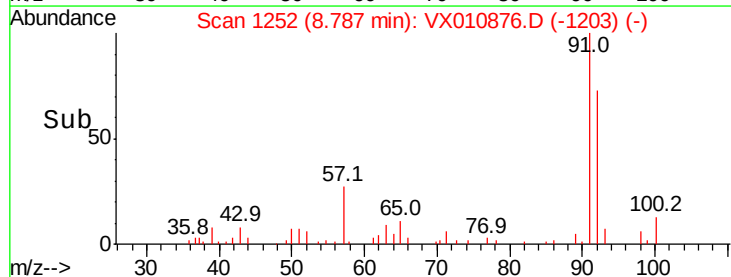
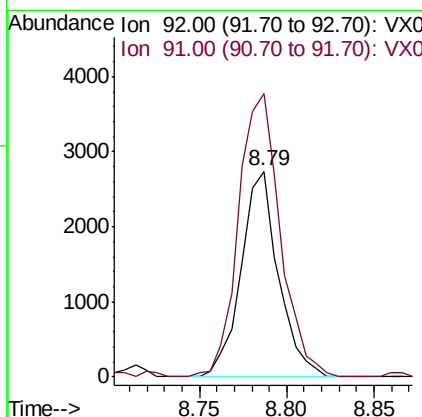
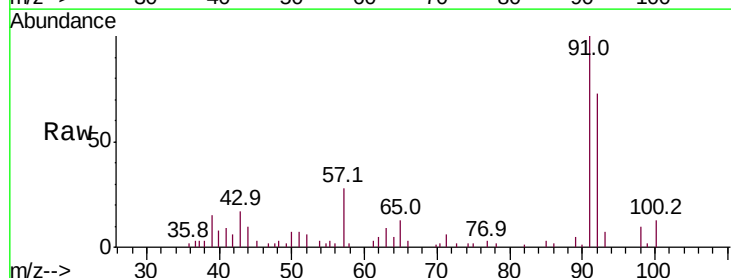
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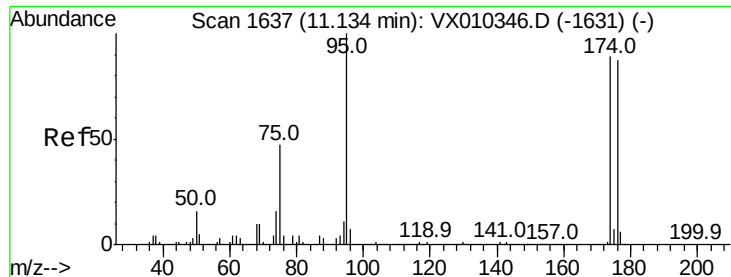
Tot Ion: 98 Resp: 433770
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



#52
Toluene
Concen: 0.682 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VX010876.D
Acq: 15 Jul 2019 11:59

Tgt Ion: 92 Resp: 4066
Ion Ratio Lower Upper
92 100
91 154.2 139.8 209.6

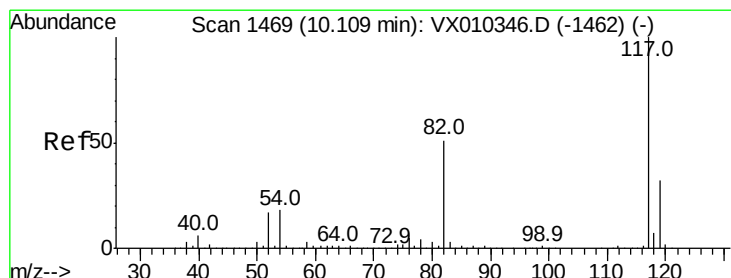
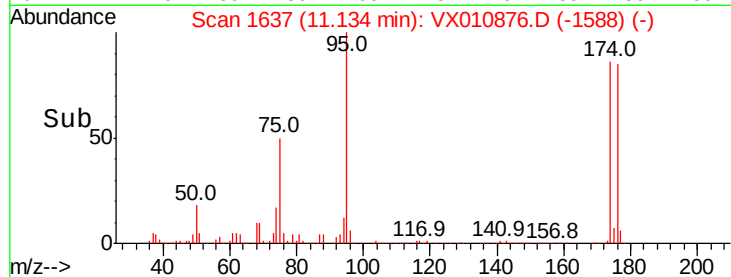
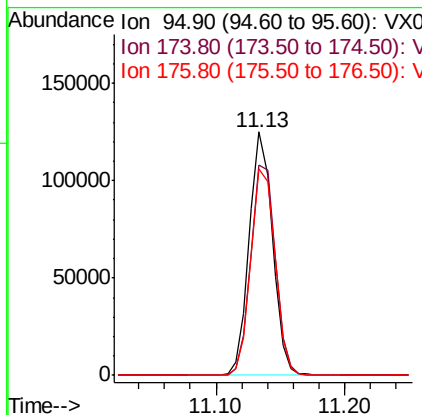
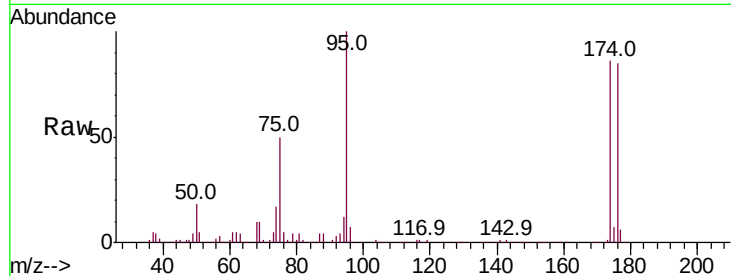




#62
4-Bromofluorobenzene
Concen: 50.379 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010876.D
Acq: 15 Jul 2019 11:59

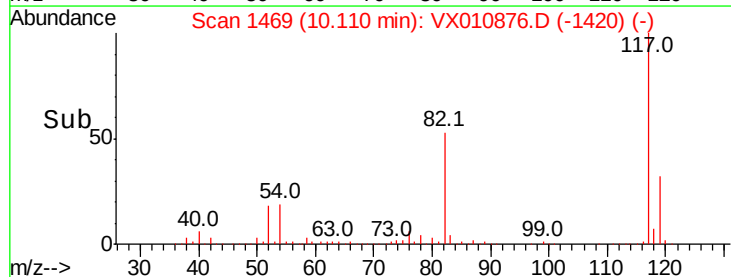
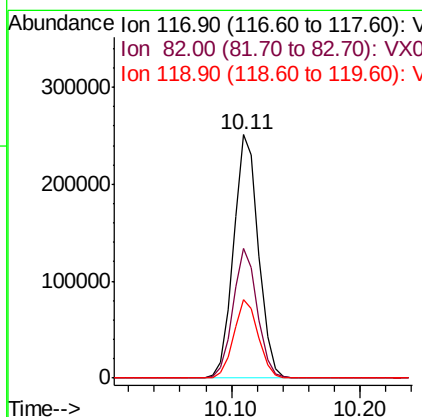
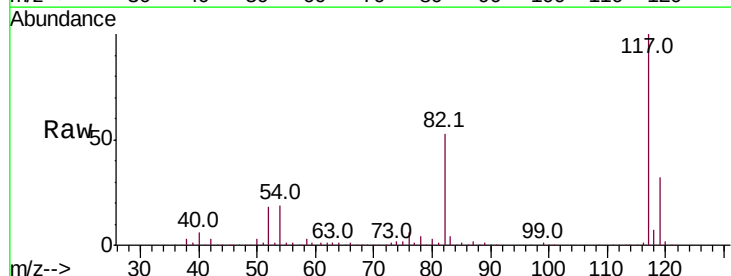
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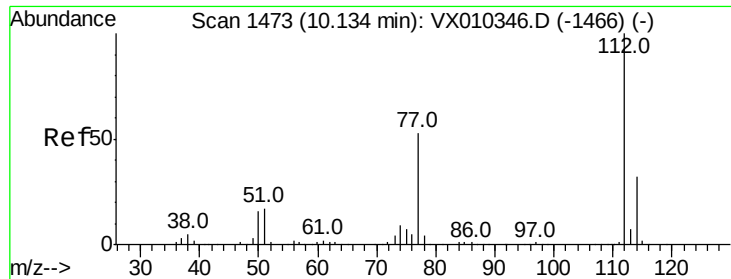
Tot Ion: 95 Resp: 155780
Ion Ratio Lower Upper
95 100
174 90.9 0.0 187.6
176 88.3 0.0 184.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010876.D
Acq: 15 Jul 2019 11:59

Tgt Ion: 117 Resp: 336754
Ion Ratio Lower Upper
117 100
82 53.3 41.2 61.8
119 32.1 25.5 38.3





#65

Chlorobenzene

Concen: 7.433 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

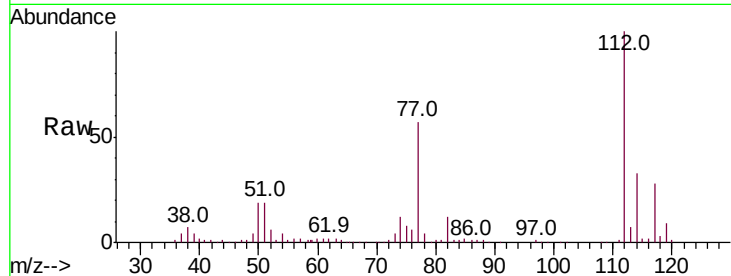
390711759.3-VOA

Tot Ion:112 Resp: 50817

Ion Ratio Lower Upper

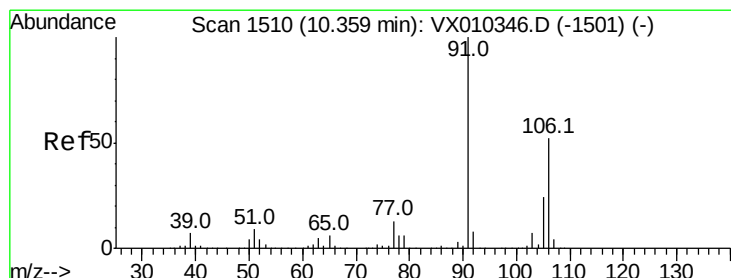
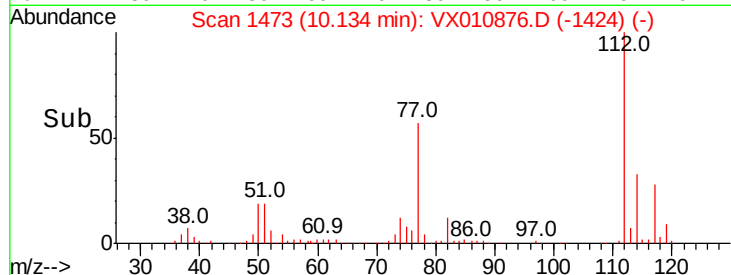
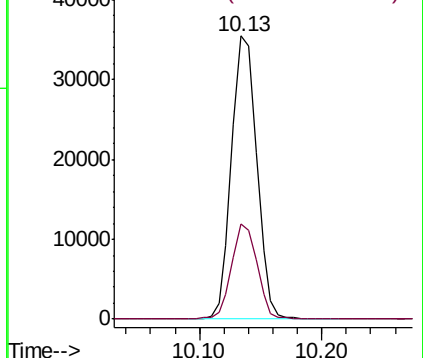
112 100

114 33.3 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#68

m/p-Xylenes

Concen: 3.197 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX010876.D

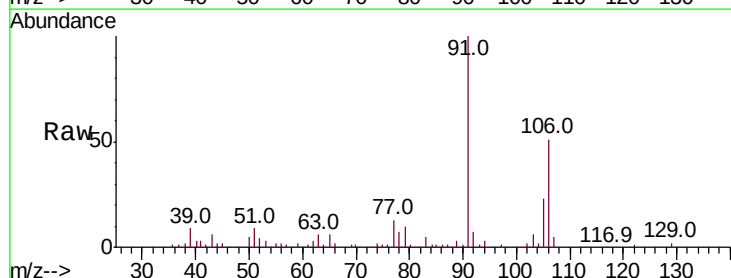
Acq: 15 Jul 2019 11:59

Tgt Ion:106 Resp: 14299

Ion Ratio Lower Upper

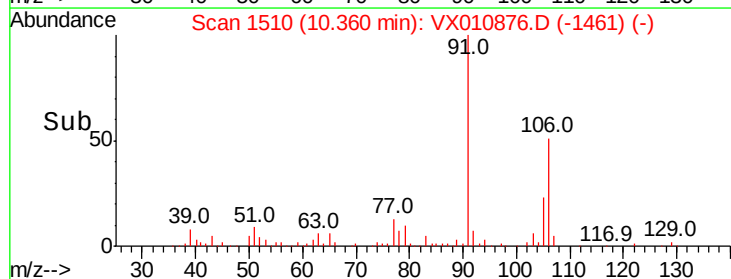
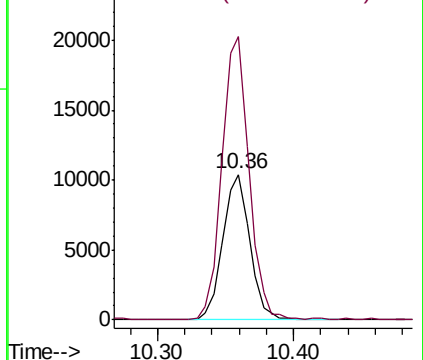
106 100

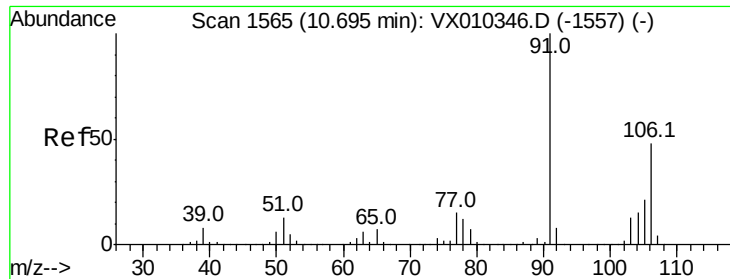
91 196.2 155.3 232.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

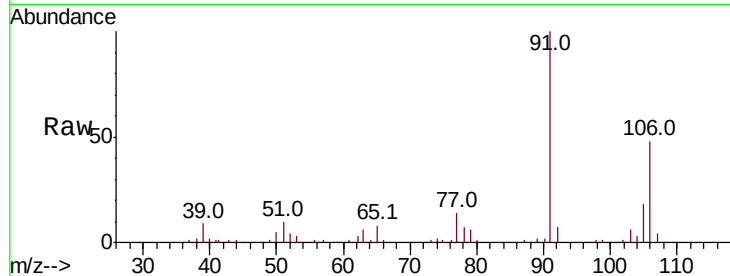




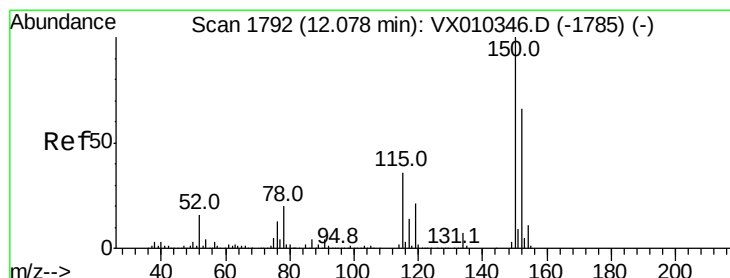
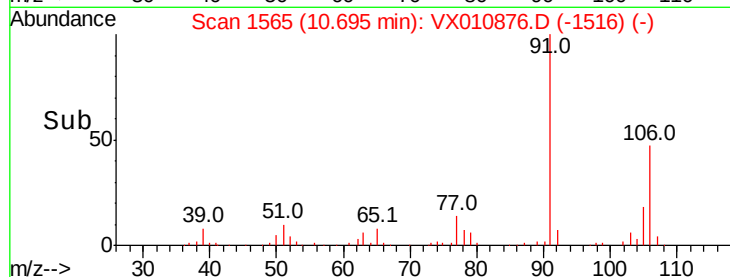
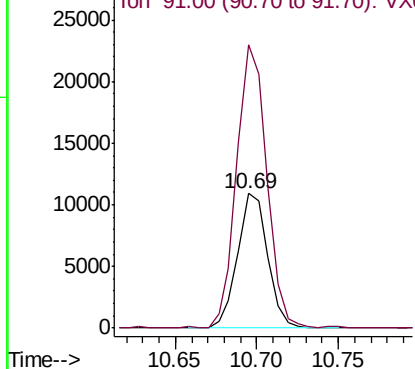
#69
o-Xylene
Concen: 3.220 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX010876.D
Acq: 15 Jul 2019 11:59

Instrument :
MSVOA_X
ClientSampleId :
390711759.3-VOA

Tot Ion:106 Resp: 14162
Ion Ratio Lower Upper
106 100
91 210.0 102.7 308.1

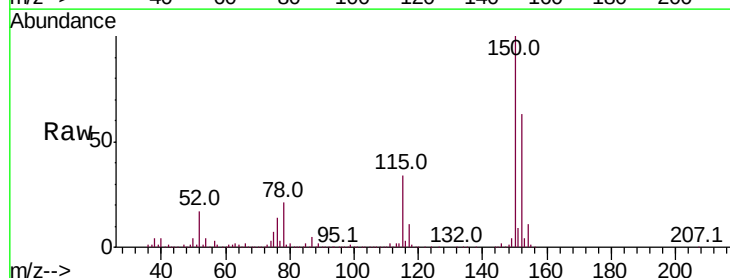


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

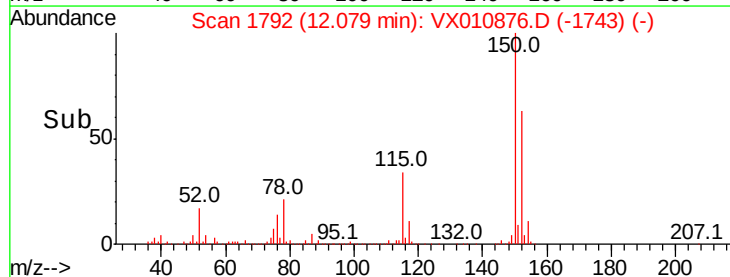
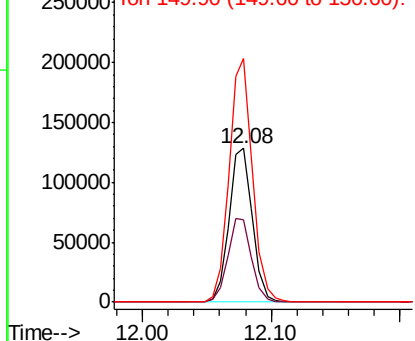


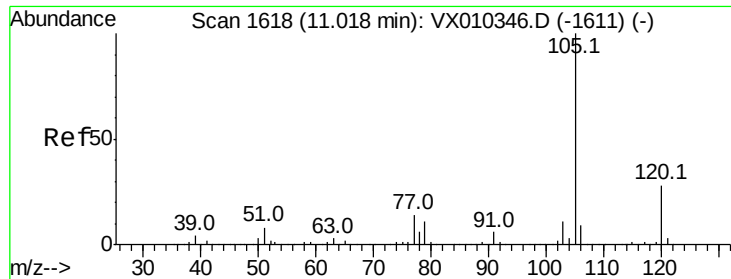
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010876.D
Acq: 15 Jul 2019 11:59

Tgt Ion:152 Resp: 162520
Ion Ratio Lower Upper
152 100
115 55.1 38.6 115.7
150 158.7 0.0 347.4



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





#73

Isopropylbenzene

Concen: 0.570 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

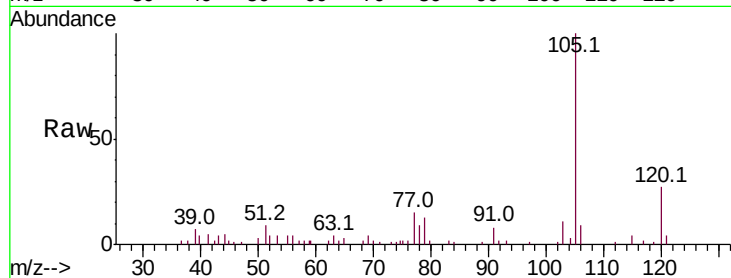
390711759.3-VOA

Tot Ion:105 Resp: 6276

Ion Ratio Lower Upper

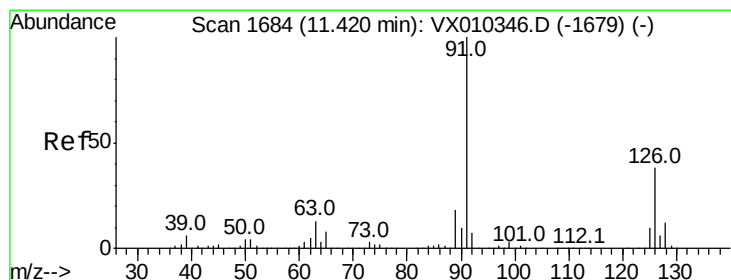
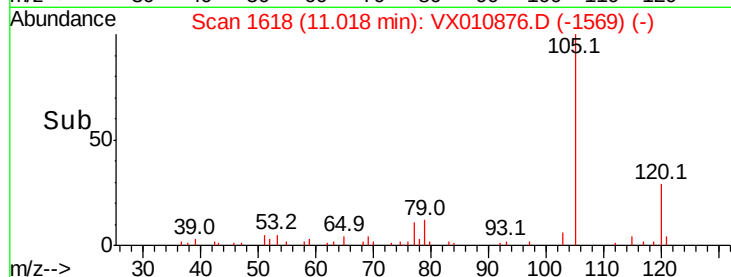
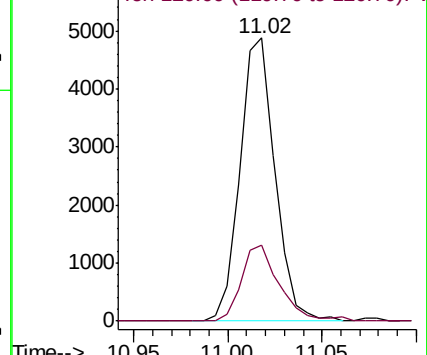
105 100

120 29.3 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.591 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX010876.D

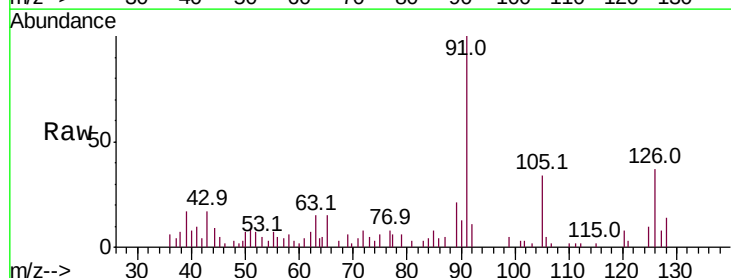
Acq: 15 Jul 2019 11:59

Tgt Ion: 91 Resp: 4264

Ion Ratio Lower Upper

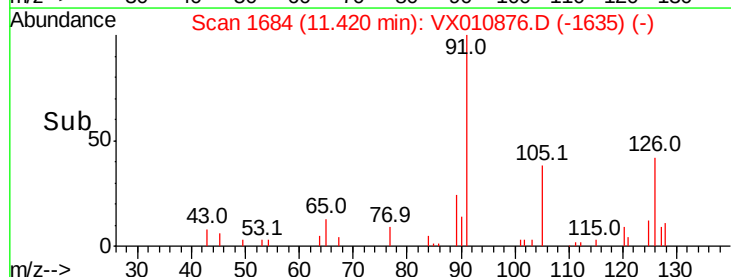
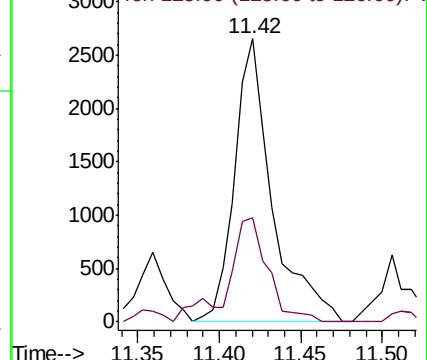
91 100

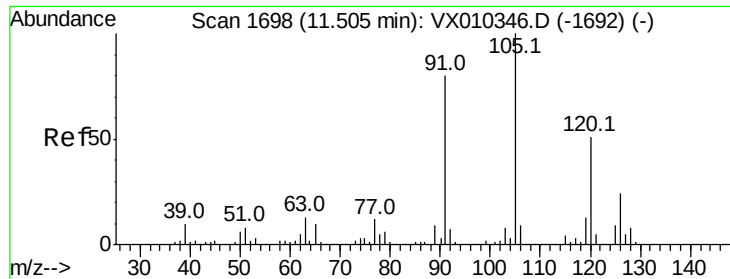
126 38.8 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

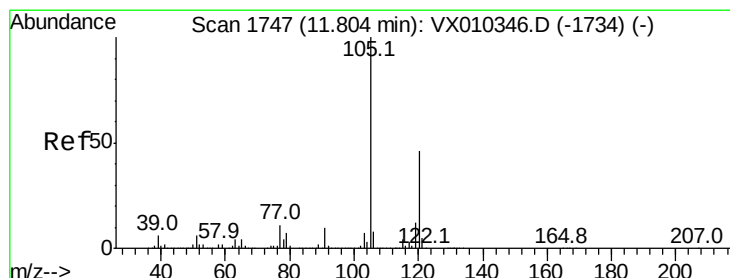
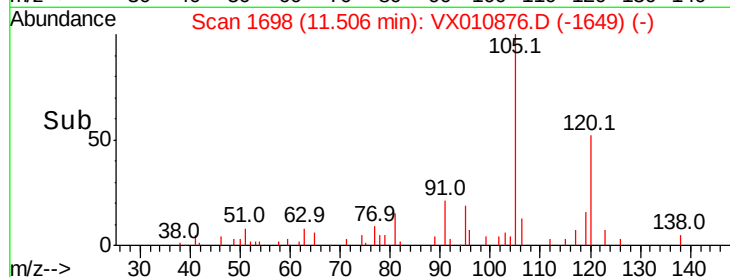
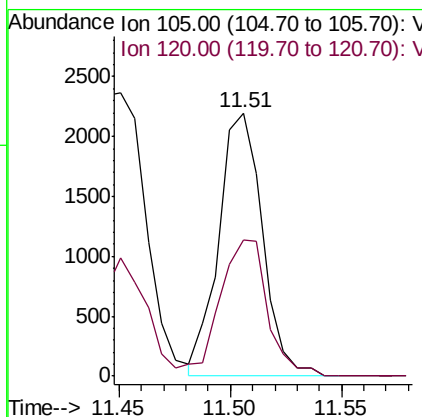
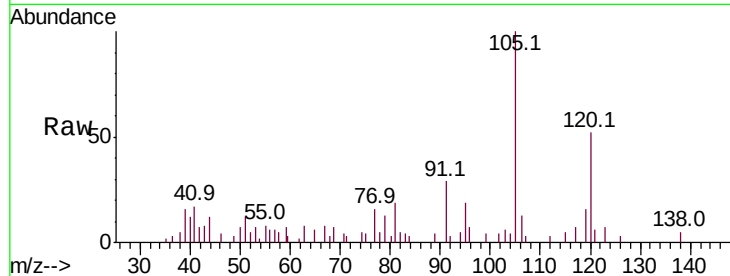




#80
 1,3,5-Trimethylbenzene
 Concen: 0.329 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX010876.D
 Acq: 15 Jul 2019 11:59

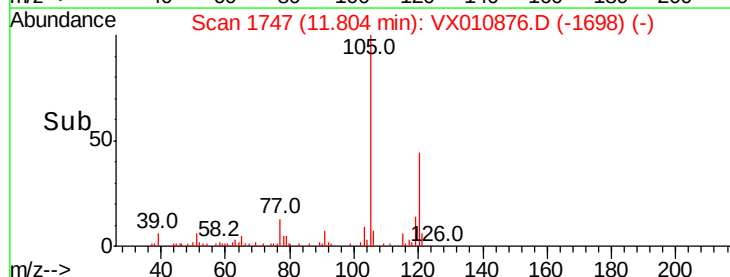
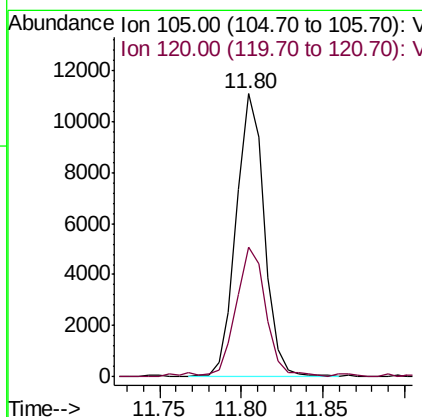
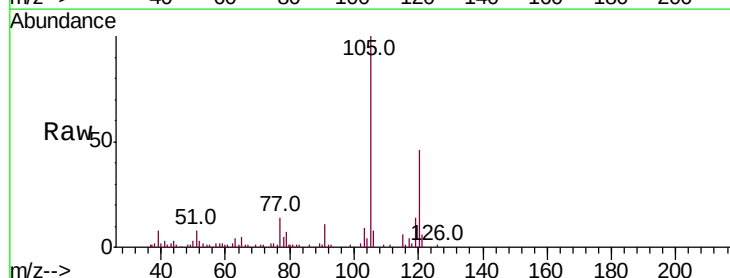
Instrument :
 MSVOA_X
 ClientSampleId :
 390711759.3-VOA

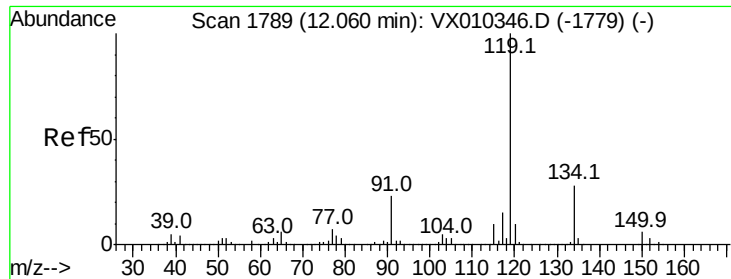
Tot Ion:105 Resp: 2992
 Ion Ratio Lower Upper
 105 100
 120 56.9 25.2 75.6



#84
 1,2,4-Trimethylbenzene
 Concen: 1.468 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX010876.D
 Acq: 15 Jul 2019 11:59

Tgt Ion:105 Resp: 13392
 Ion Ratio Lower Upper
 105 100
 120 49.4 23.1 69.2

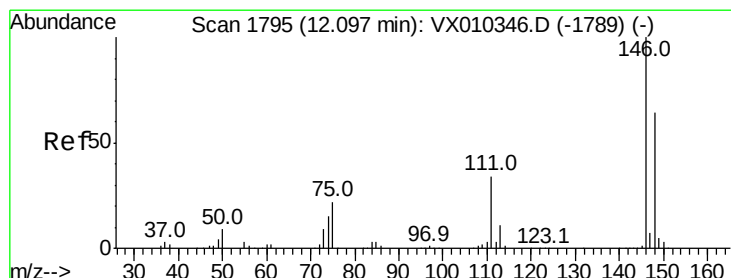
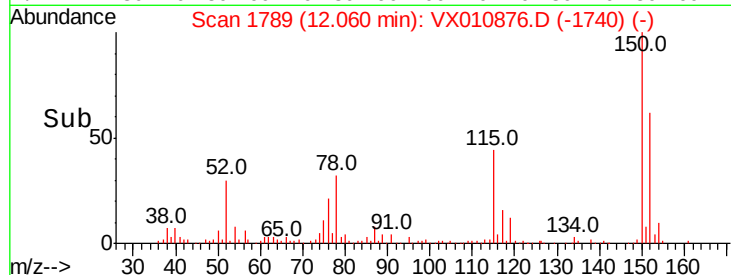
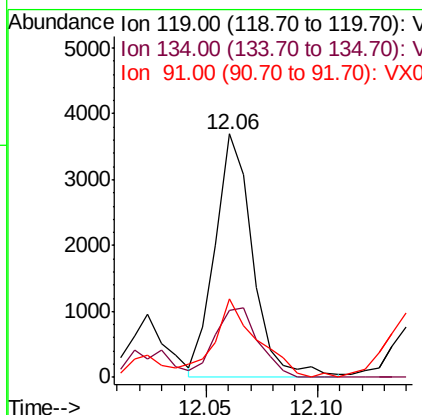
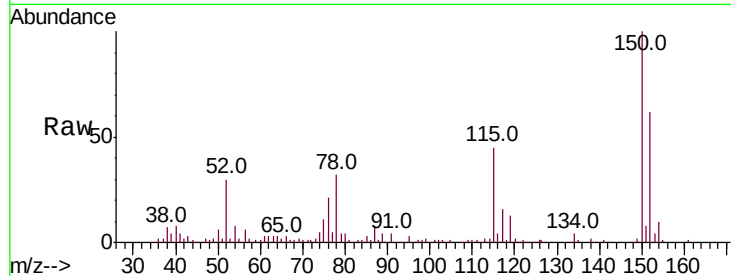




#86
 p-Isopropyltoluene
 Concen: 0.439 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX010876.D
 Acq: 15 Jul 2019 11:59

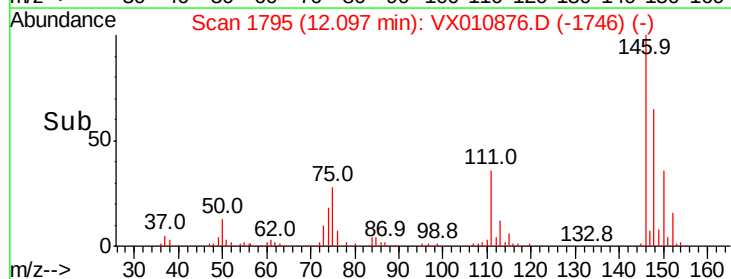
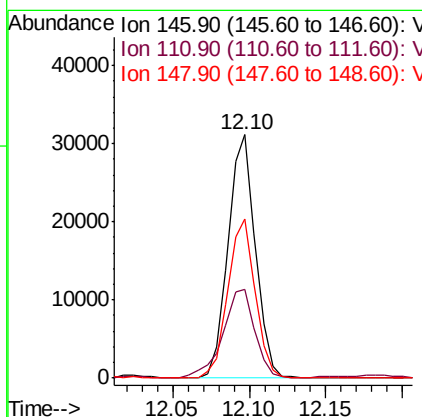
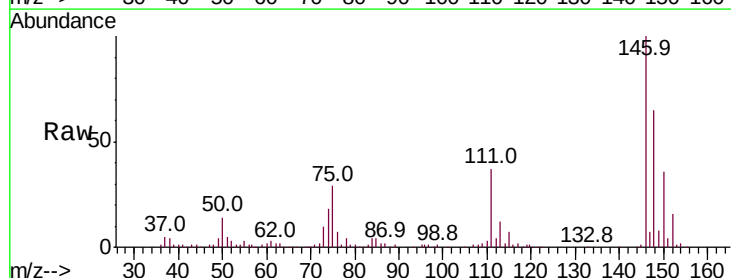
Instrument :
 MSVOA_X
 ClientSampleId :
 390711759.3-VOA

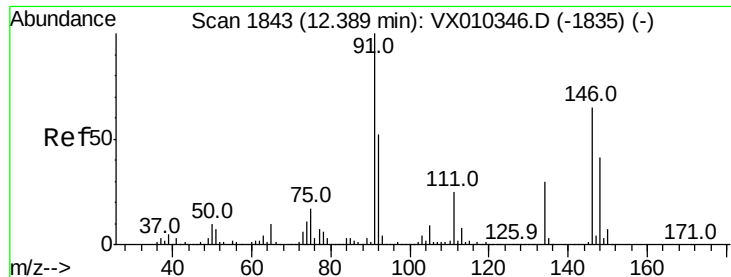
Tot Ion:119 Resp: 4345
 Ion Ratio Lower Upper
 119 100
 134 33.2 13.7 41.1
 91 36.5 11.3 33.8#



#88
 1,4-Dichlorobenzene
 Concen: 7.030 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010876.D
 Acq: 15 Jul 2019 11:59

Tgt Ion:146 Resp: 38430
 Ion Ratio Lower Upper
 146 100
 111 43.3 18.1 54.3
 148 65.5 32.1 96.3





#91

1,2-Dichlorobenzene

Concen: 0.464 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

390711759.3-VOA

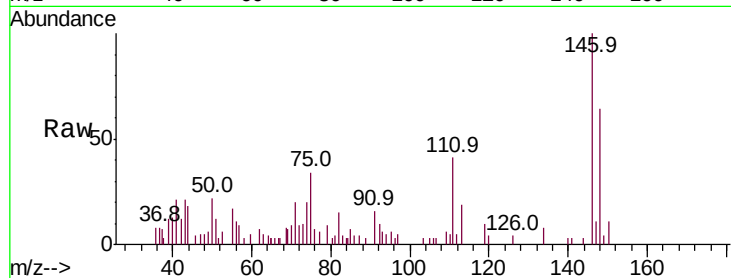
Tot Ion:146 Resp: 2478

Ion Ratio Lower Upper

146 100

111 45.5 19.2 57.6

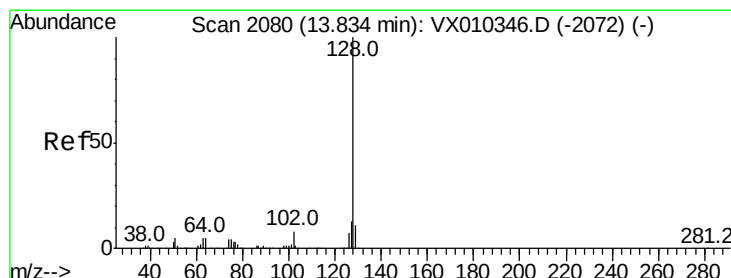
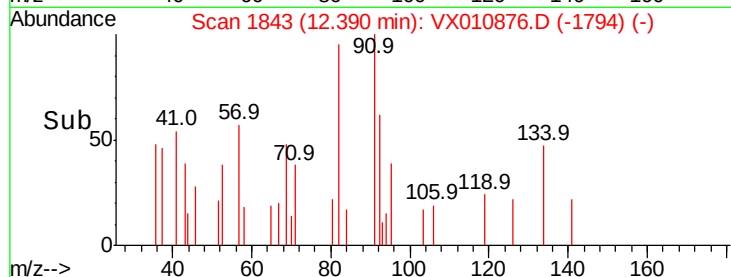
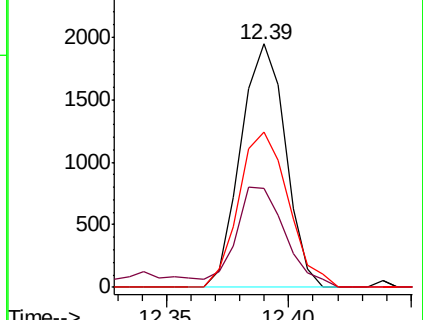
148 71.3 32.0 96.0



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



#95

Naphthalene

Concen: 5.697 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX010876.D

Acq: 15 Jul 2019 11:59

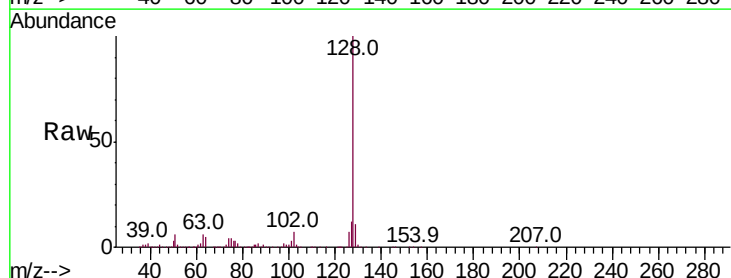
Tgt Ion:128 Resp: 64794

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 11.1 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

