

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040419\
 Data File : VX008648.D
 Acq On : 04 Apr 2019 20:00
 Operator : JC/SP
 Sample : K2275-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0713

Quant Time: Apr 05 08:46:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	213320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	352974	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	310616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134051	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	144768	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	
35) Dibromofluoromethane	5.50	113	106920	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	8.71	98	446760	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
62) 4-Bromofluorobenzene	11.13	95	154111	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	

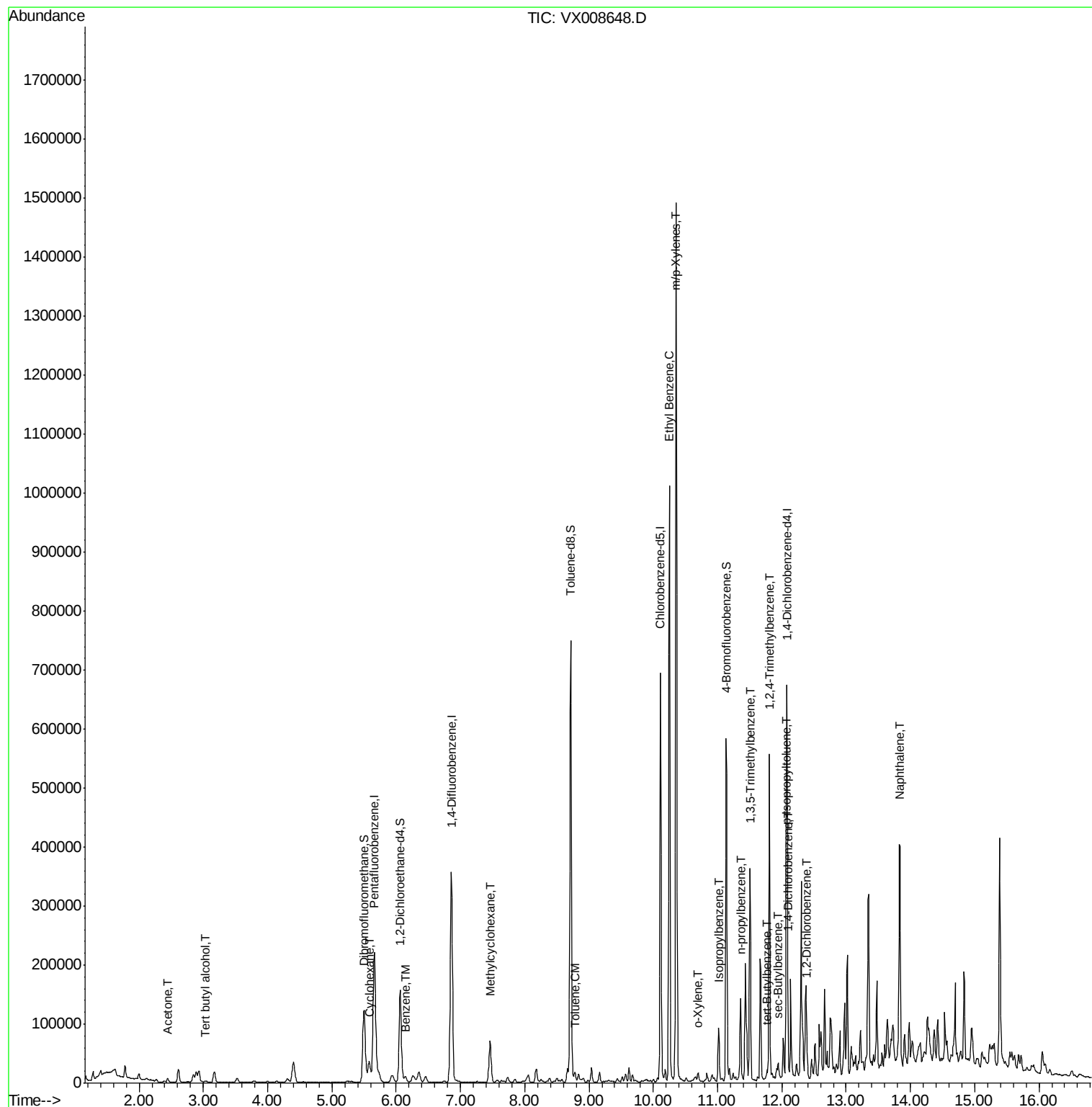
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.04	59	2438	3.347	ug/l #	72
16) Acetone	2.45	43	6004	3.350	ug/l	99
31) Cyclohexane	5.58	56	25360	4.717	ug/l	97
39) Methylcyclohexane	7.46	83	30522	6.404	ug/l	97
40) Benzene	6.14	78	10644	0.926	ug/l	100
52) Toluene	8.78	92	2482	0.366	ug/l	96
67) Ethyl Benzene	10.25	91	566645	44.135	ug/l	100
68) m/p-Xylenes	10.35	106	335386	72.652	ug/l	100
69) o-Xylene	10.70	106	2294	0.513	ug/l	94
73) Isopropylbenzene	11.02	105	45557	4.101	ug/l	100
78) n-propylbenzene	11.36	91	66682	5.155	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	149471	16.029	ug/l	100
83) tert-Butylbenzene	11.77	119	5133	0.572	ug/l	82
84) 1,2,4-Trimethylbenzene	11.80	105	230596	24.421	ug/l	99
85) sec-Butylbenzene	11.94	105	12383	1.162	ug/l	95
86) p-Isopropyltoluene	12.06	119	8675	0.907	ug/l	94
88) 1,4-Dichlorobenzene	12.10	146	11622	2.401	ug/l	89
91) 1,2-Dichlorobenzene	12.39	146	13483	2.840	ug/l	97
95) Naphthalene	13.83	128	231432	20.980	ug/l	99

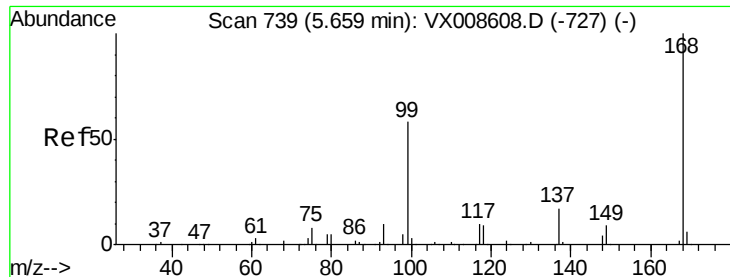
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

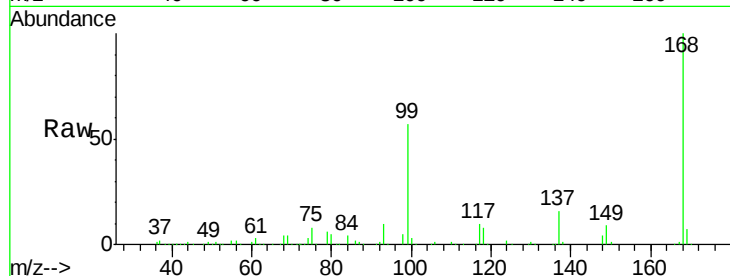
S8-0713

Tot Ion:168 Resp: 213320

Ion Ratio Lower Upper

168 100

99 56.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

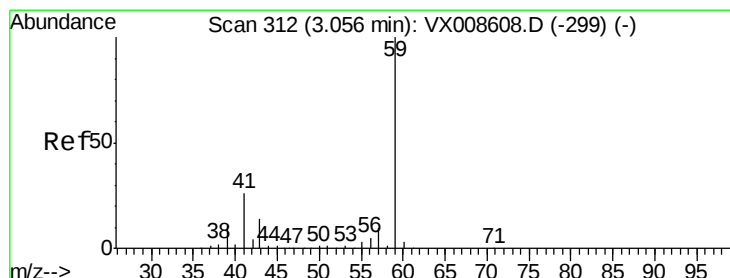
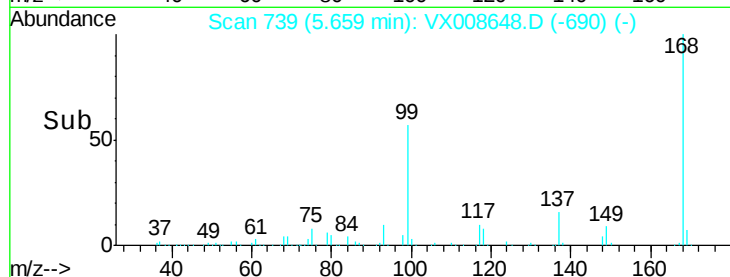
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 3.347 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX008648.D

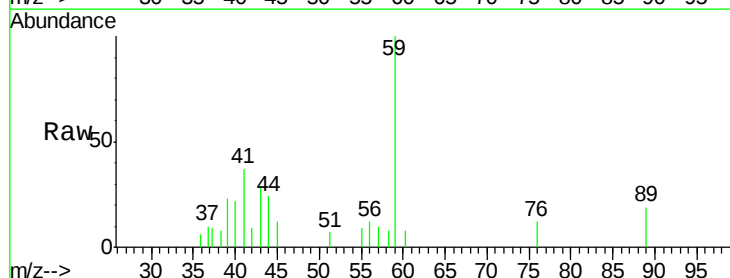
Acq: 04 Apr 2019 20:00

Tgt Ion: 59 Resp: 2438

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

5000

4000

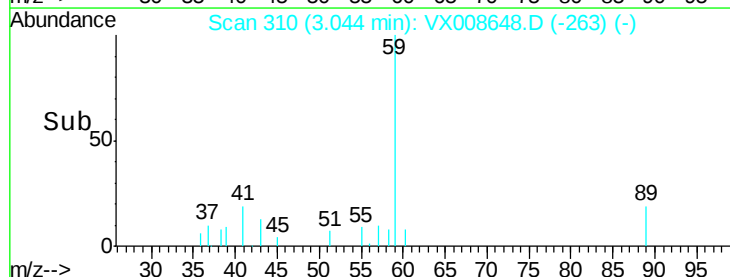
3000

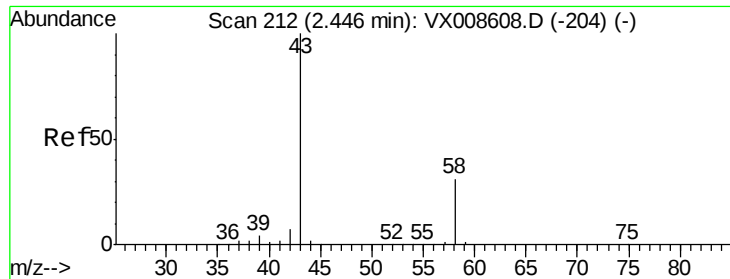
2000

1000

0

Time--> 2.95 3.00 3.05 3.10 3.15





#16

Acetone

Concen: 3.350 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

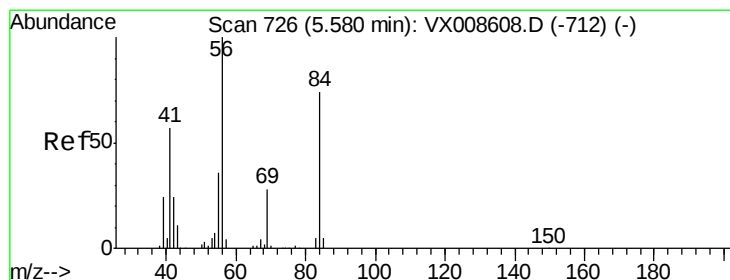
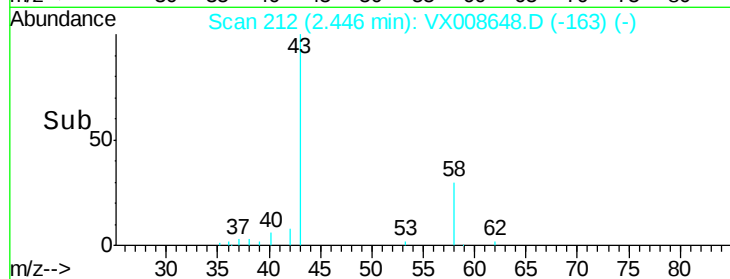
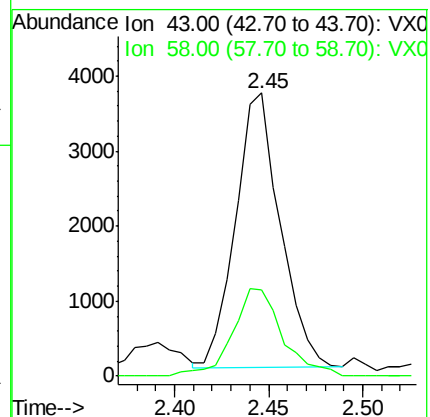
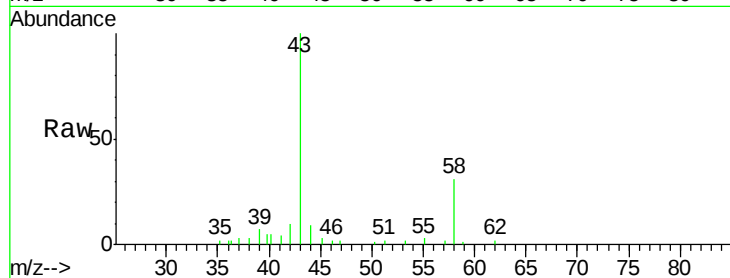
S8-0713

Tot Ion: 43 Resp: 6004

Ion Ratio Lower Upper

43 100

58 31.7 24.8 37.2



#31

Cyclohexane

Concen: 4.717 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

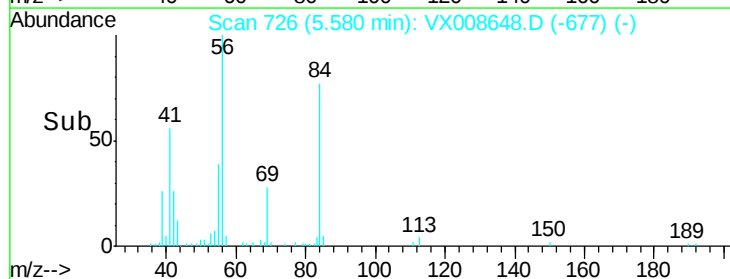
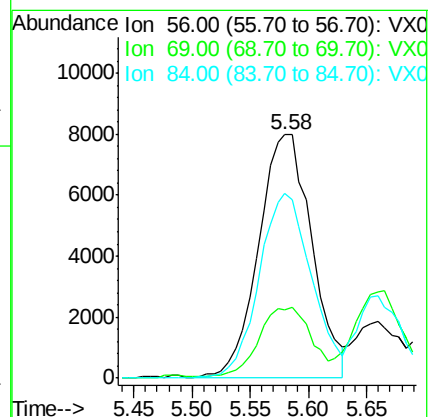
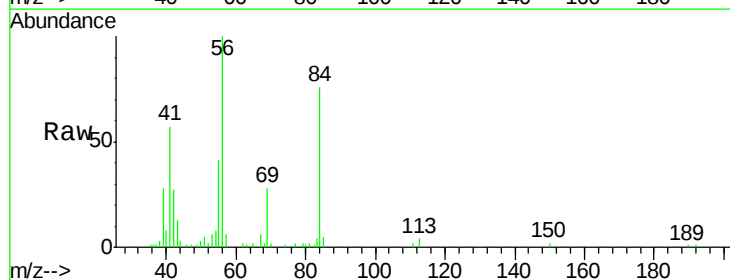
Tgt Ion: 56 Resp: 25360

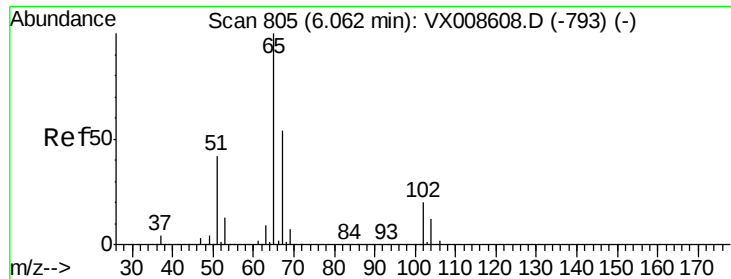
Ion Ratio Lower Upper

56 100

69 27.2 22.6 33.8

84 76.6 59.3 88.9





#33

1,2-Dichloroethane-d4

Concen: 46.528 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

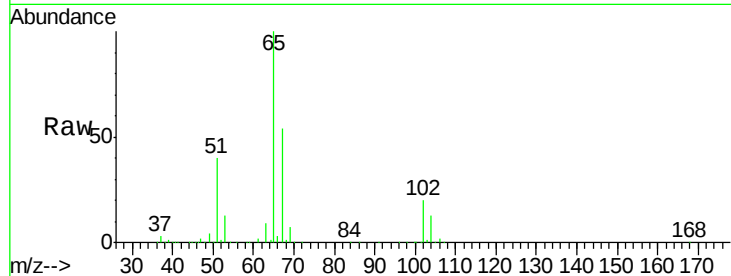
S8-0713

Tot Ion: 65 Resp: 144768

Ion Ratio Lower Upper

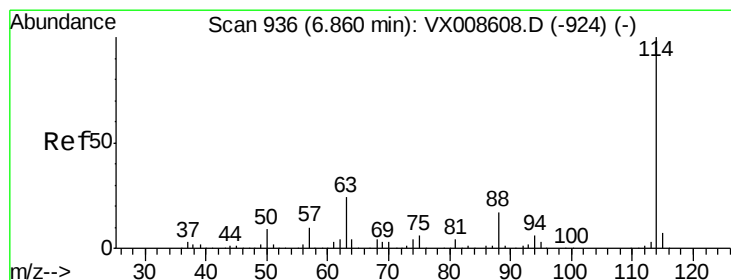
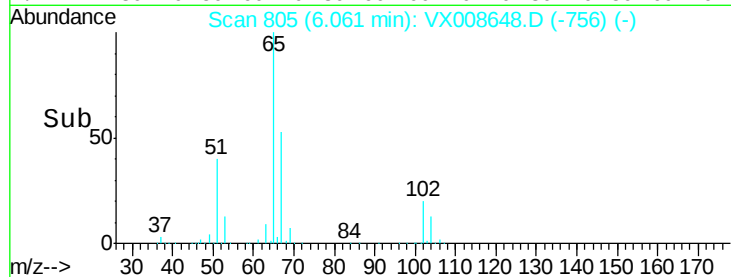
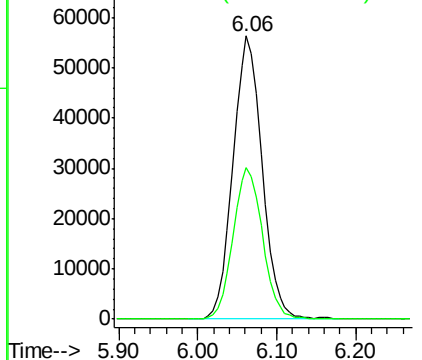
65 100

67 54.2 0.0 107.2



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

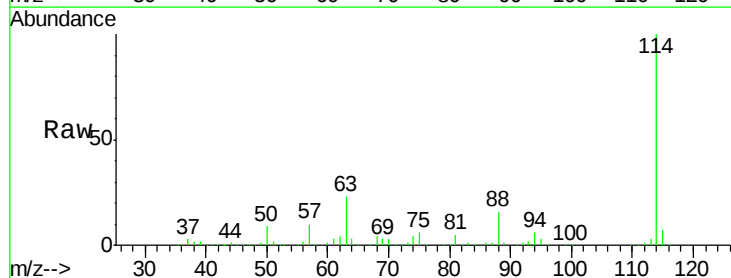
Tgt Ion: 114 Resp: 352974

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.2

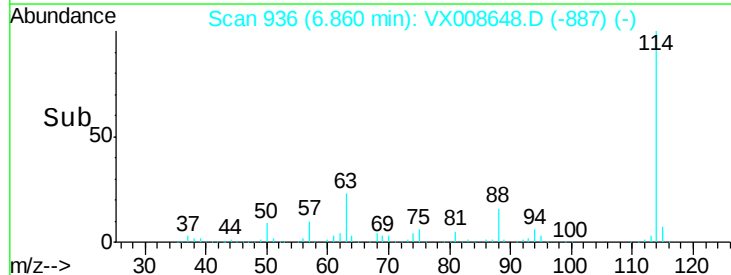
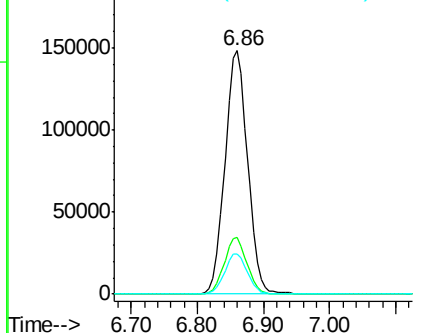
88 16.5 0.0 34.0

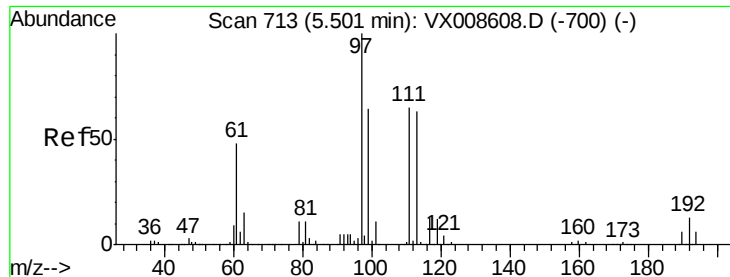


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

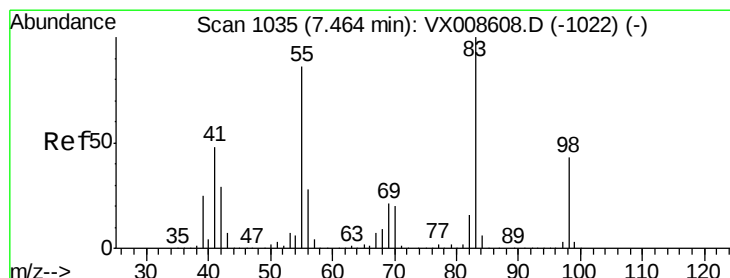
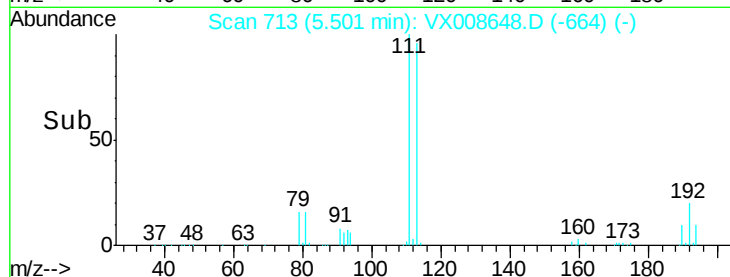
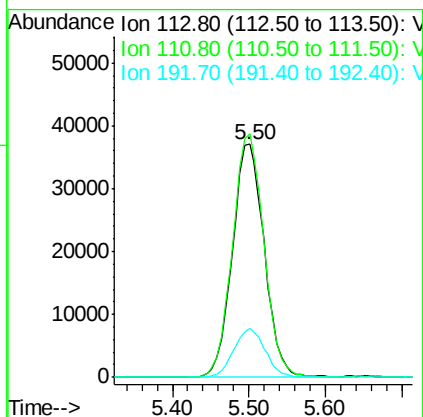
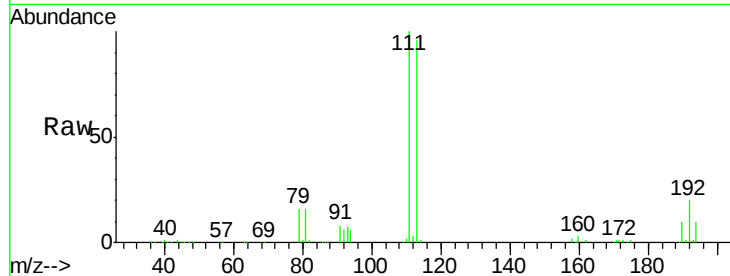




#35
Dibromofluoromethane
Concen: 47.377 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

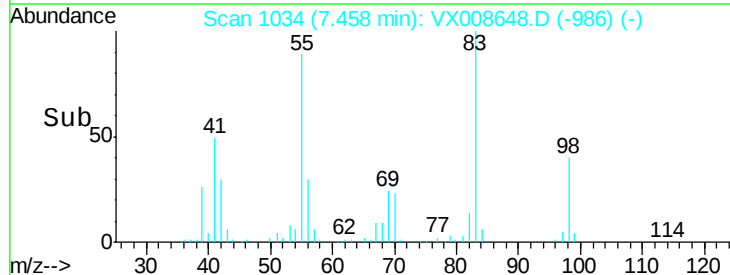
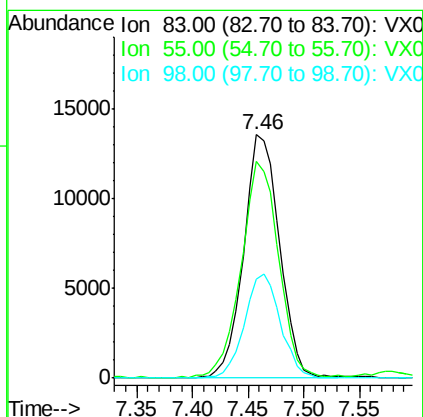
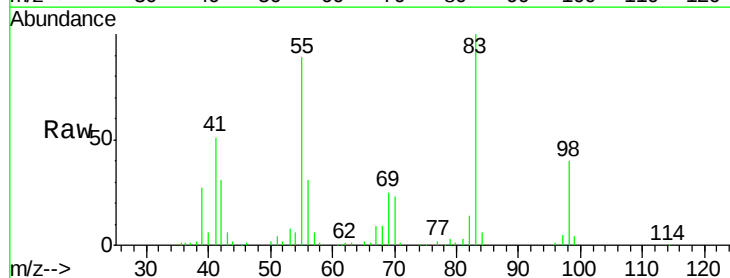
Instrument :
MSVOA_X
ClientSampleId :
S8-0713

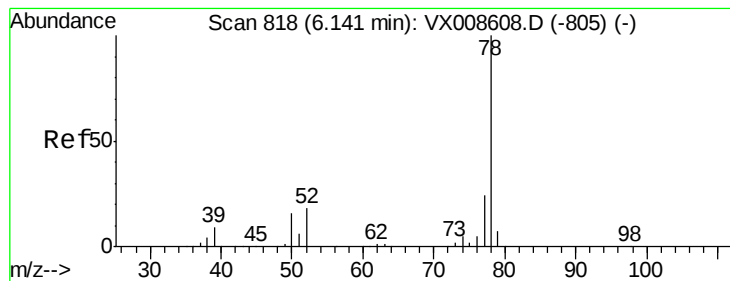
Tot Ion:113 Resp: 106920
Ion Ratio Lower Upper
113 100
111 103.1 83.4 125.2
192 20.7 16.1 24.1



#39
Methylcyclohexane
Concen: 6.404 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

Tgt Ion: 83 Resp: 30522
Ion Ratio Lower Upper
83 100
55 89.2 69.0 103.6
98 40.4 34.4 51.6





#40

Benzene

Concen: 0.926 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

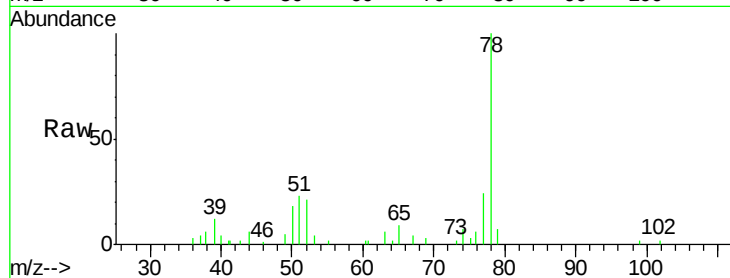
S8-0713

Tot Ion: 78 Resp: 10644

Ion Ratio Lower Upper

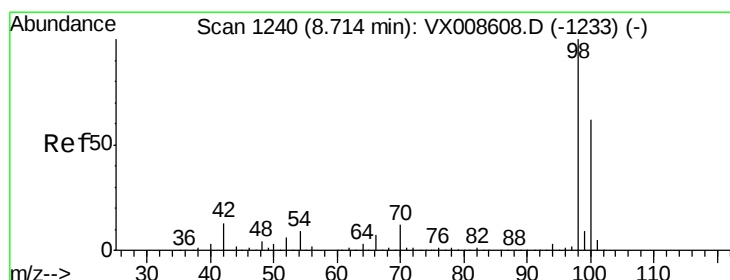
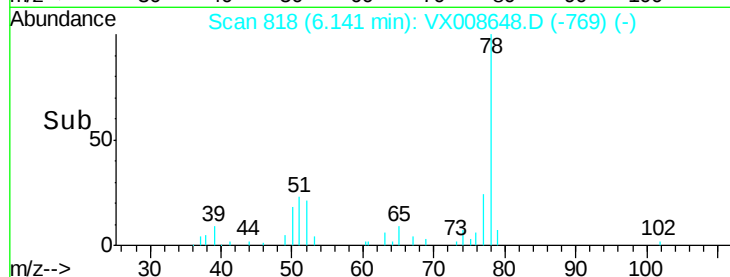
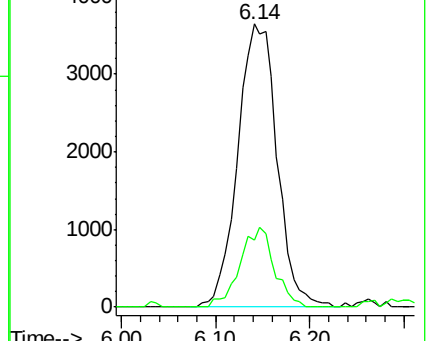
78 100

77 23.9 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 49.718 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008648.D

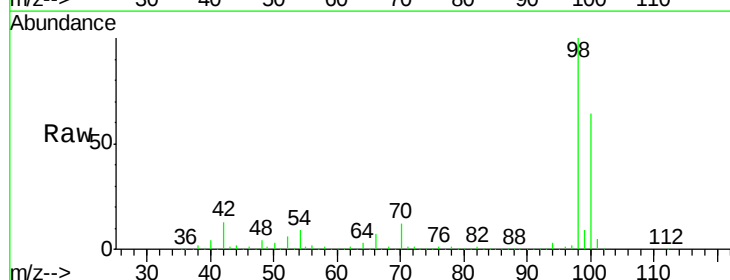
Acq: 04 Apr 2019 20:00

Tgt Ion: 98 Resp: 446760

Ion Ratio Lower Upper

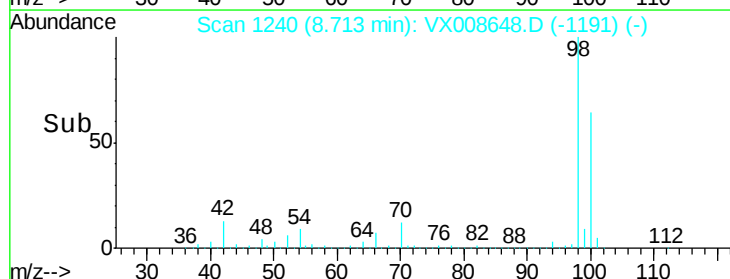
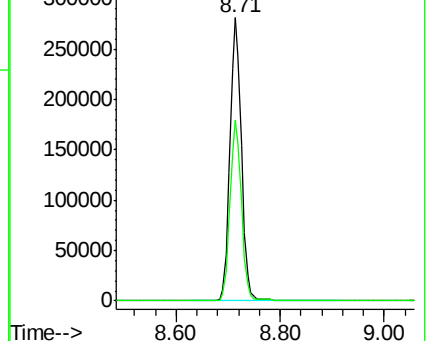
98 100

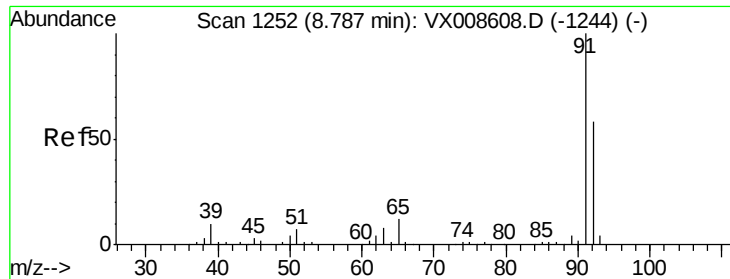
100 63.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 0.366 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

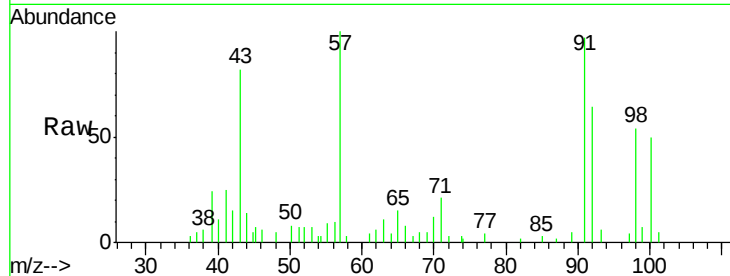
S8-0713

Tot Ion: 92 Resp: 2482

Ion Ratio Lower Upper

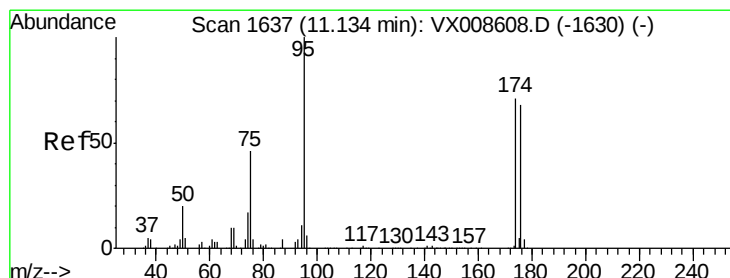
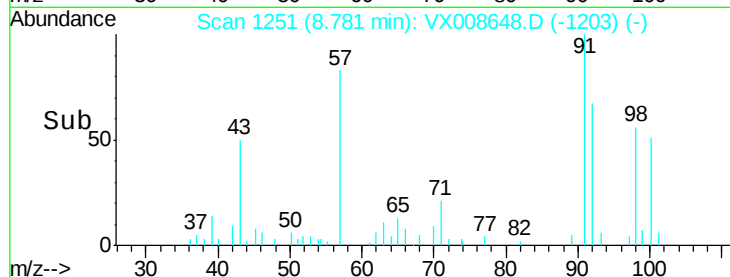
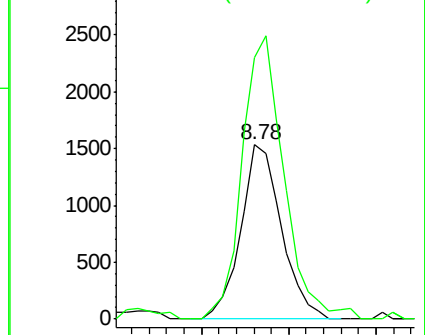
92 100

91 167.0 138.5 207.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

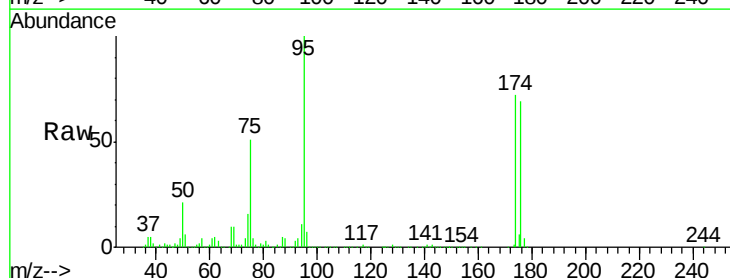
Tgt Ion: 95 Resp: 154111

Ion Ratio Lower Upper

95 100

174 75.7 0.0 151.8

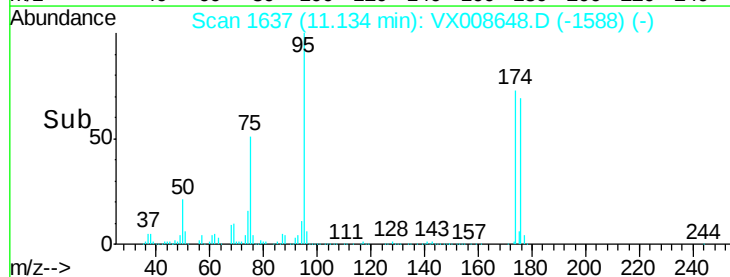
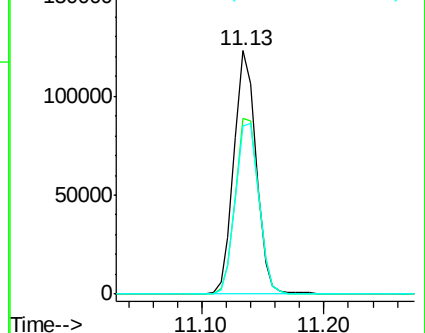
176 74.4 0.0 145.8

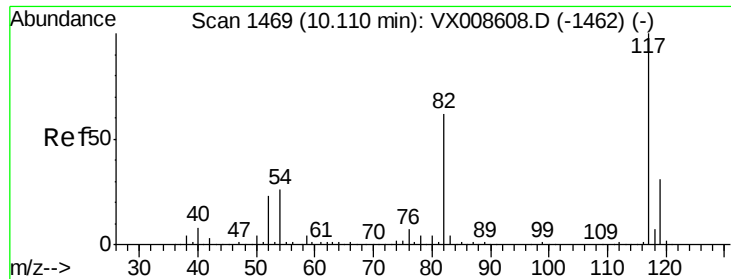


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

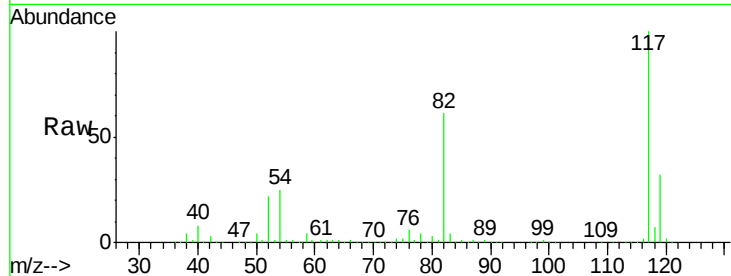




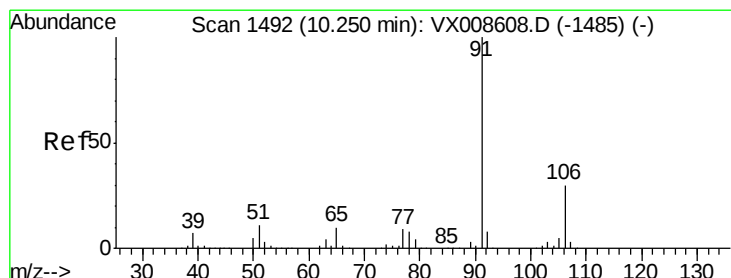
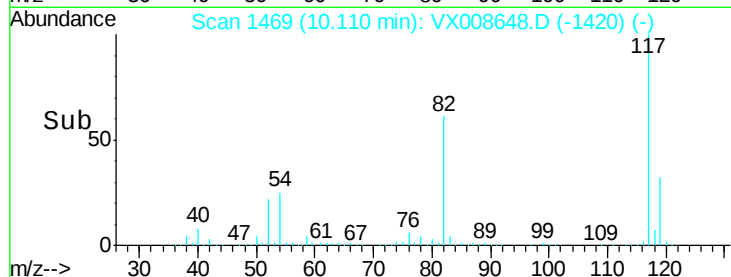
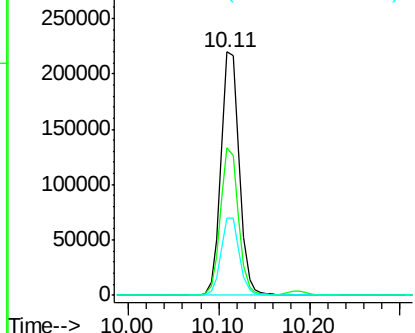
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

Instrument :
MSVOA_X
ClientSampled :
S8-0713

Tot Ion:117 Resp: 310616
Ion Ratio Lower Upper
117 100
82 60.6 49.6 74.4
119 31.5 25.0 37.4

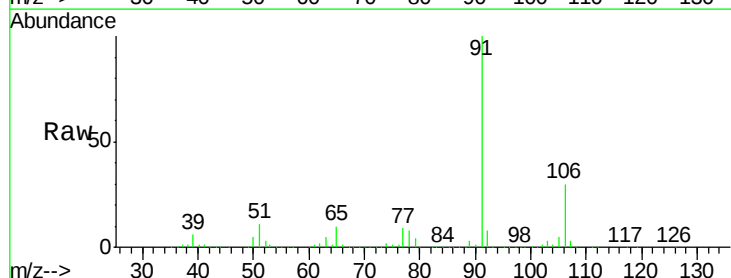


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

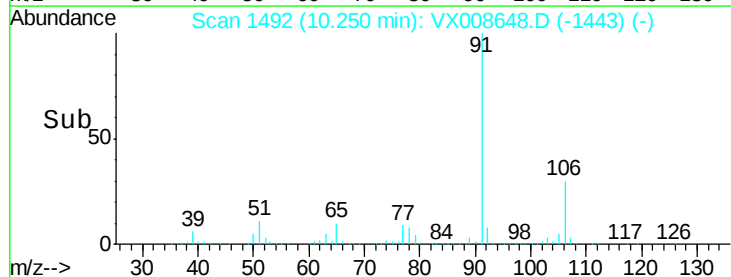
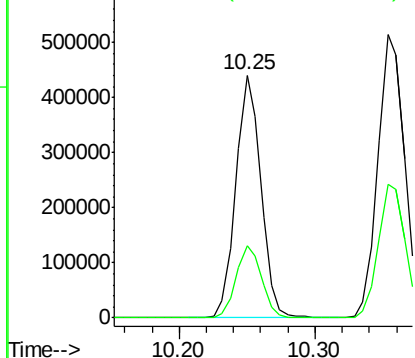


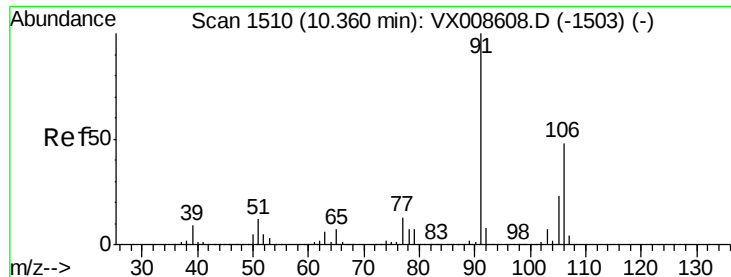
#67
Ethyl Benzene
Concen: 44.135 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

Tgt Ion: 91 Resp: 566645
Ion Ratio Lower Upper
91 100
106 29.6 23.7 35.5



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

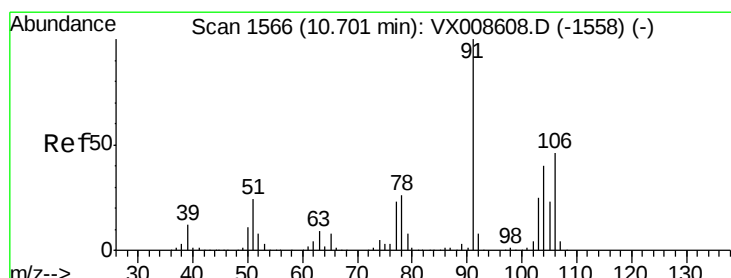
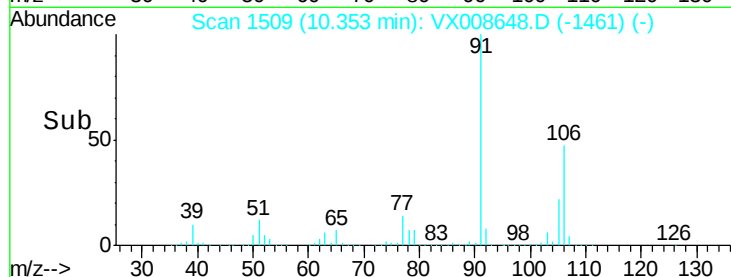
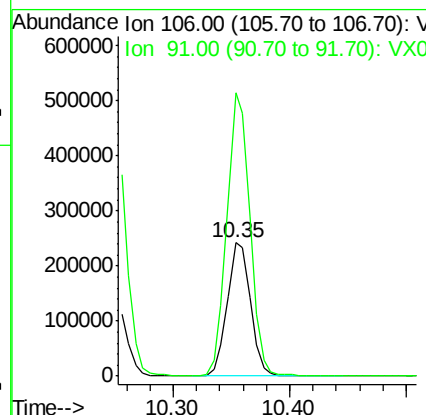
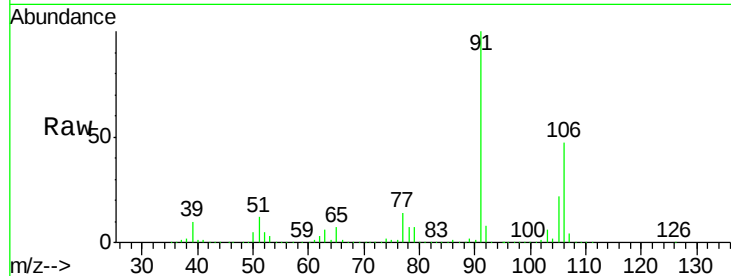




#68
m/p-Xylenes
Concen: 72.652 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

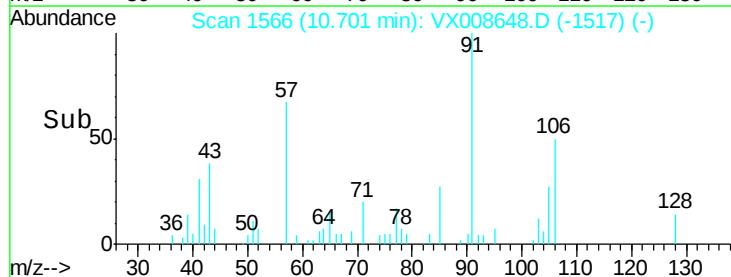
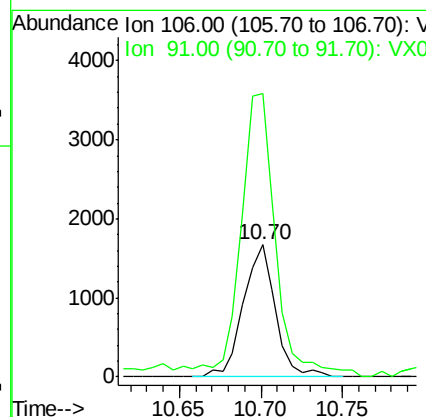
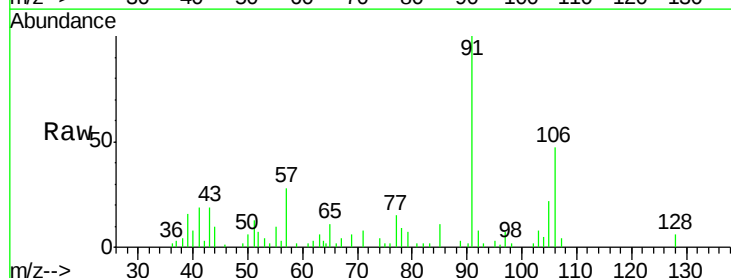
Instrument :
MSVOA_X
ClientSampled :
S8-0713

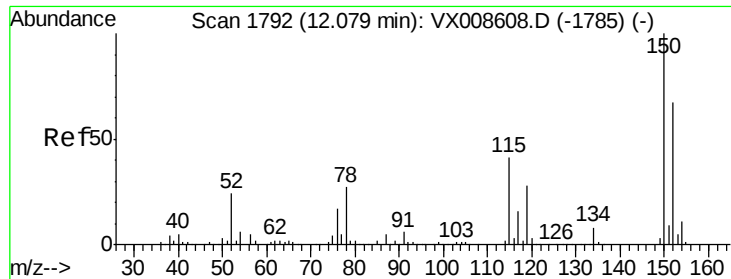
Tot Ion:106 Resp: 335386
Ion Ratio Lower Upper
106 100
91 210.4 168.5 252.7



#69
o-Xylene
Concen: 0.513 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

Tgt Ion:106 Resp: 2294
Ion Ratio Lower Upper
106 100
91 232.7 111.5 334.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampled :

S8-0713

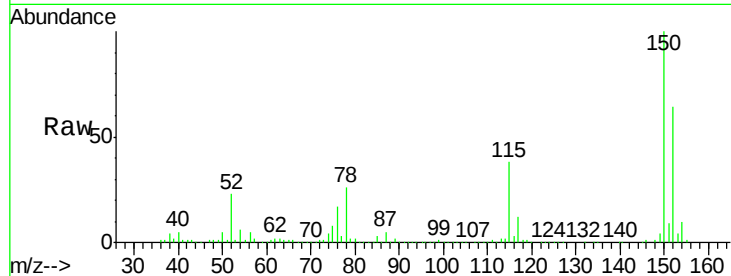
Tot Ion:152 Resp: 134051

Ion Ratio Lower Upper

152 100

115 60.9 43.5 130.5

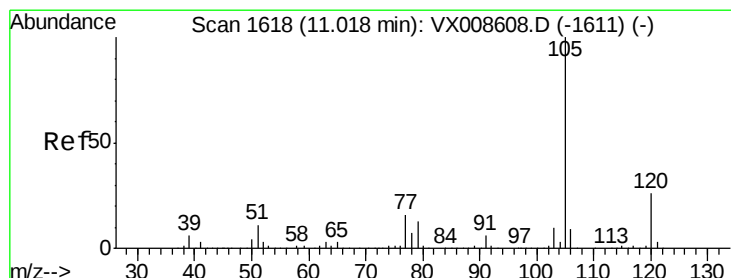
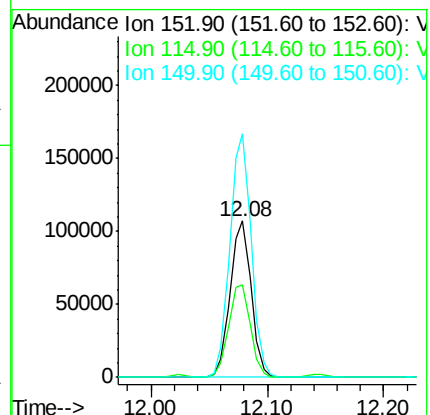
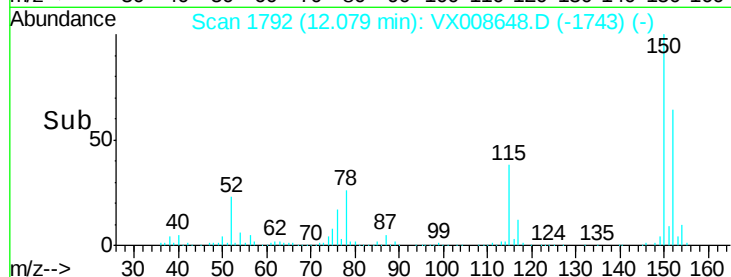
150 157.8 0.0 348.8



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



#73

Isopropylbenzene

Concen: 4.101 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008648.D

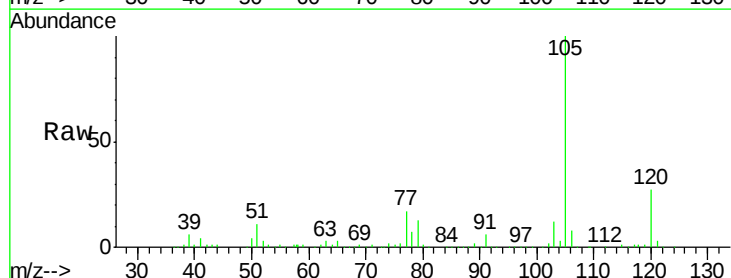
Acq: 04 Apr 2019 20:00

Tgt Ion:105 Resp: 45557

Ion Ratio Lower Upper

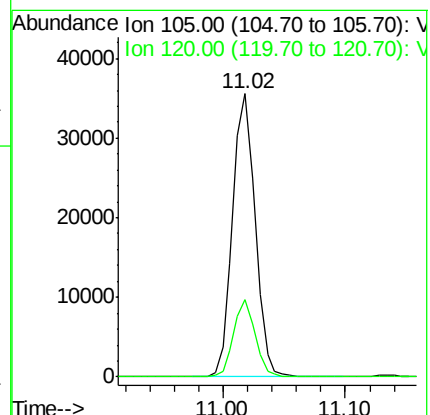
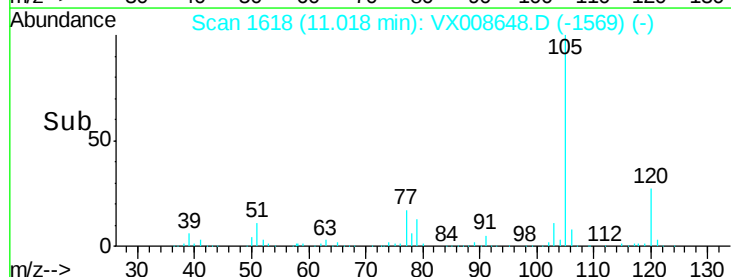
105 100

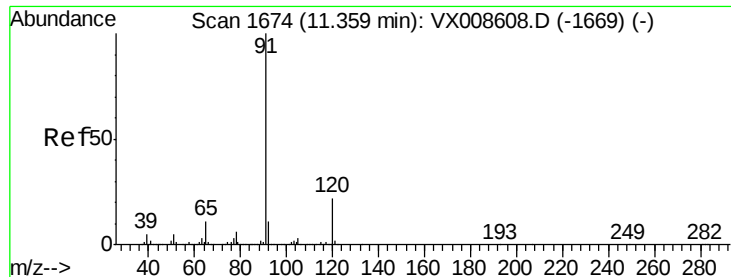
120 25.9 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.155 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampled :

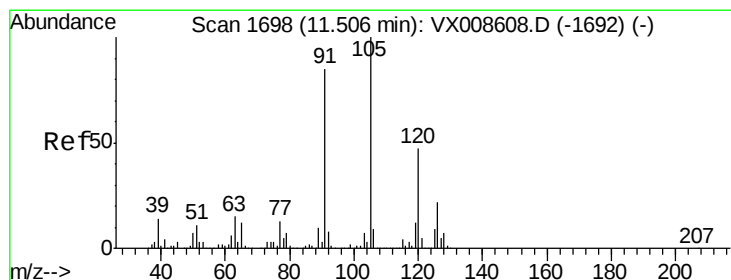
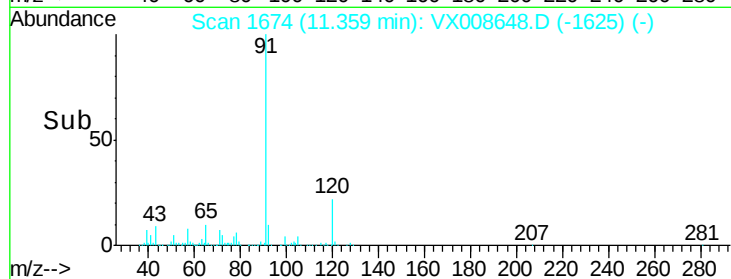
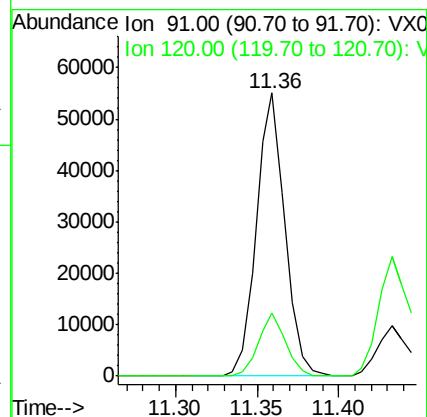
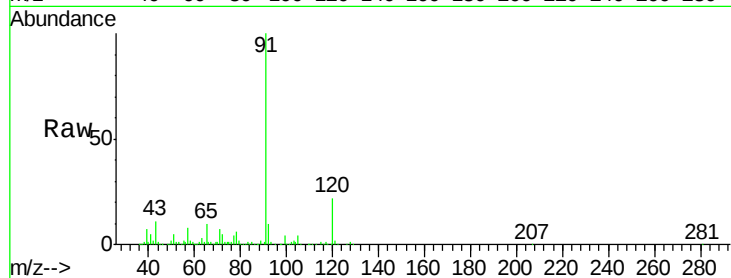
S8-0713

Tot Ion: 91 Resp: 66682

Ion Ratio Lower Upper

91 100

120 21.2 10.9 32.7



#80

1,3,5-Trimethylbenzene

Concen: 16.029 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX008648.D

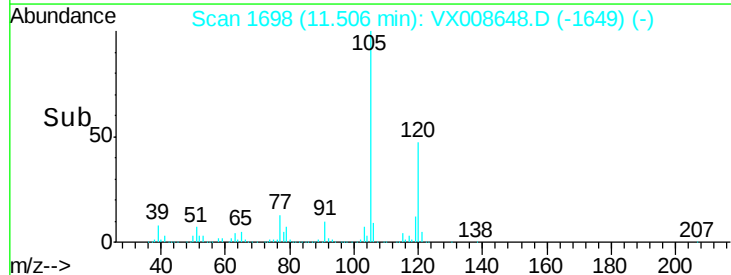
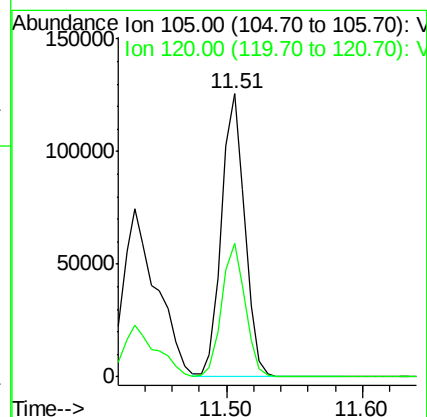
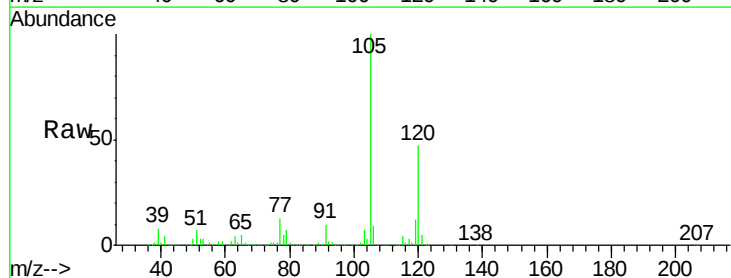
Acq: 04 Apr 2019 20:00

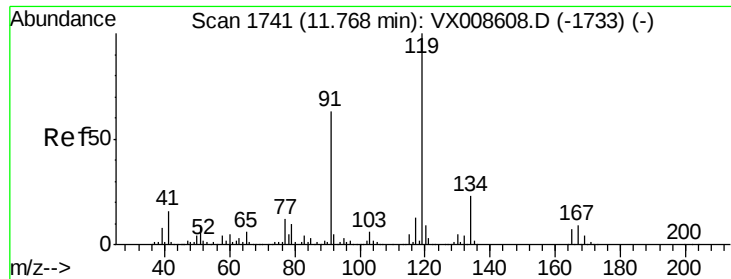
Tgt Ion: 105 Resp: 149471

Ion Ratio Lower Upper

105 100

120 47.2 23.5 70.6

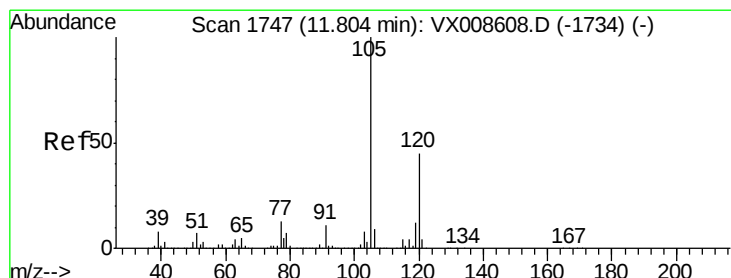
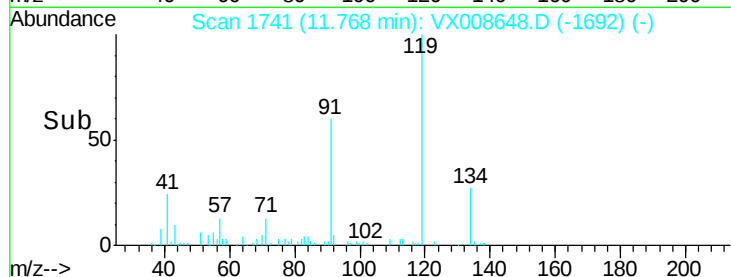
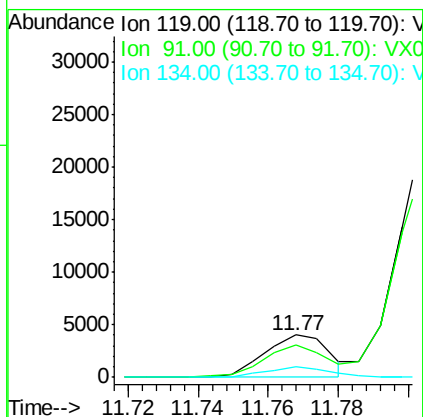
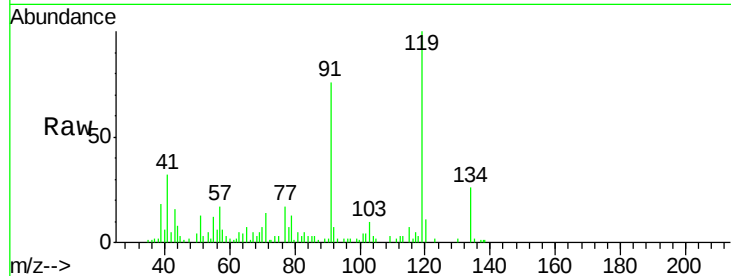




#83
tert-Butylbenzene
Concen: 0.572 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

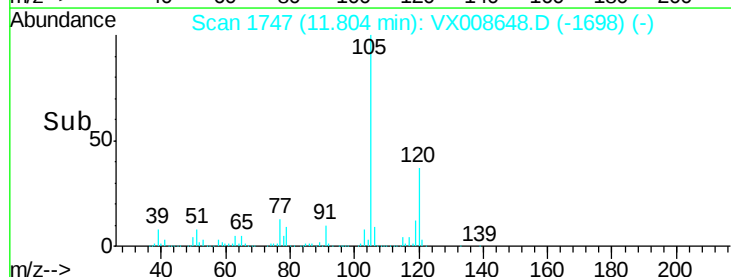
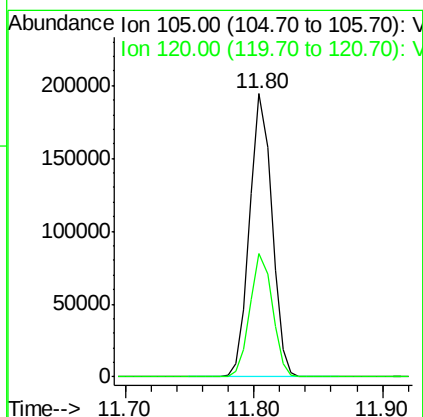
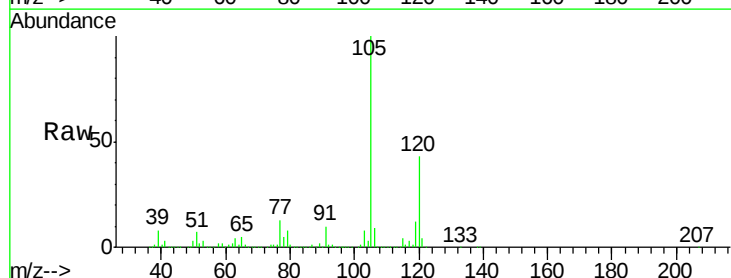
Instrument :
MSVOA_X
ClientSampled :
S8-0713

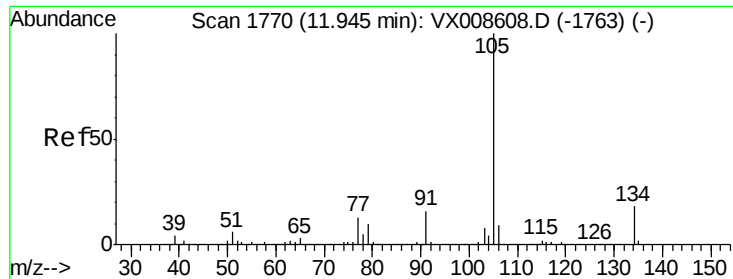
Tot Ion:119 Resp: 5133
Ion Ratio Lower Upper
119 100
91 76.3 30.0 90.1
134 25.6 11.1 33.3



#84
1,2,4-Trimethylbenzene
Concen: 24.421 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX008648.D
Acq: 04 Apr 2019 20:00

Tgt Ion:105 Resp: 230596
Ion Ratio Lower Upper
105 100
120 44.2 21.8 65.3

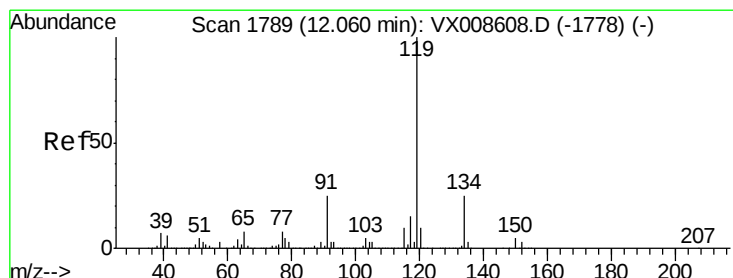
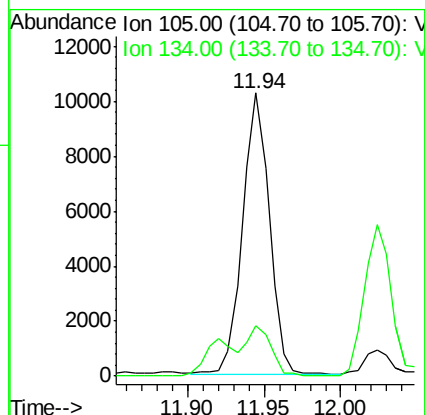
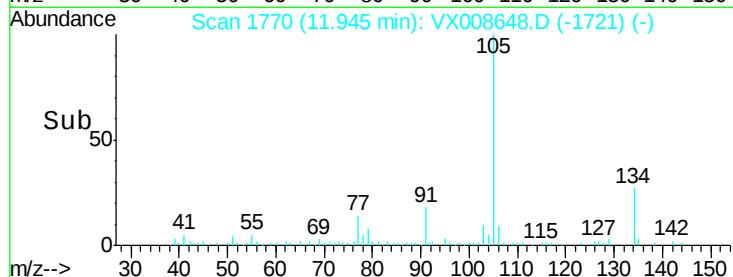
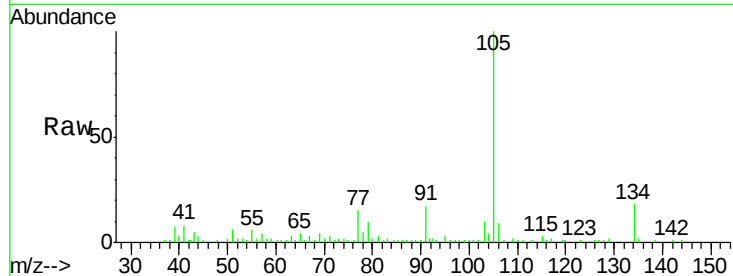




#85
 sec-Butylbenzene
 Concen: 1.162 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX008648.D
 Acq: 04 Apr 2019 20:00

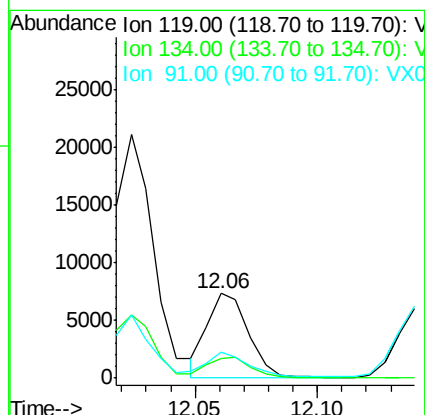
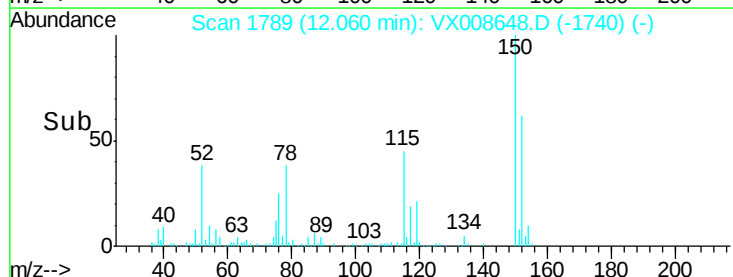
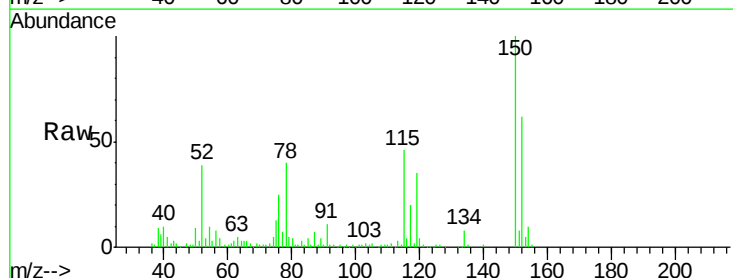
Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0713

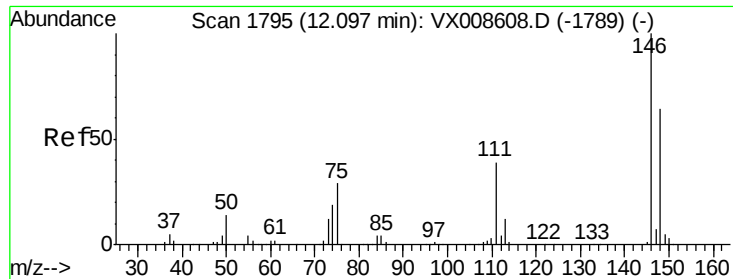
Tot Ion:105 Resp: 12383
 Ion Ratio Lower Upper
 105 100
 134 16.6 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 0.907 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX008648.D
 Acq: 04 Apr 2019 20:00

Tgt Ion:119 Resp: 8675
 Ion Ratio Lower Upper
 119 100
 134 25.5 12.8 38.4
 91 30.3 12.2 36.6

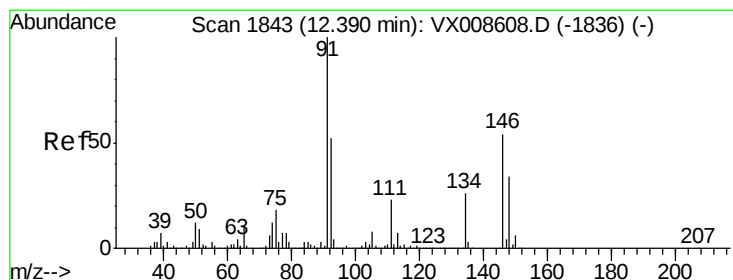
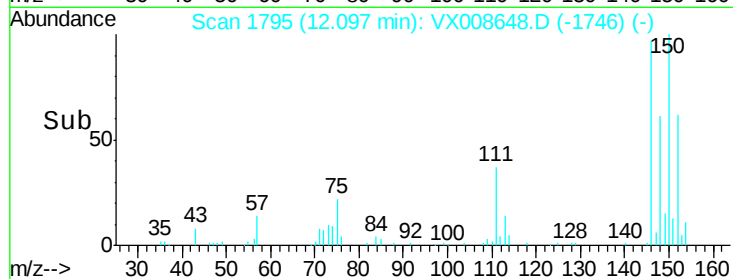
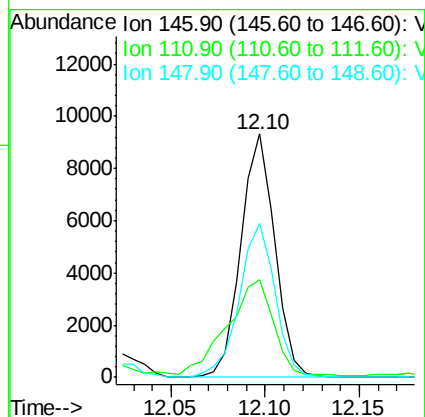
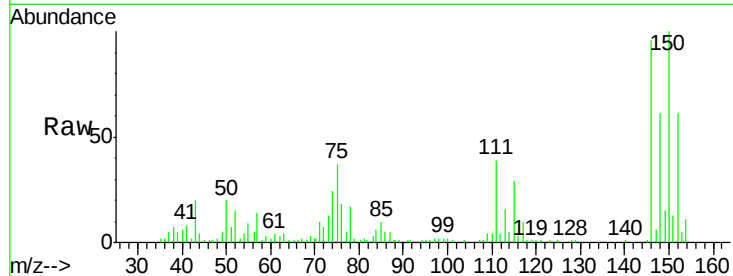




#88
 1,4-Dichlorobenzene
 Concen: 2.401 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX008648.D
 Acq: 04 Apr 2019 20:00

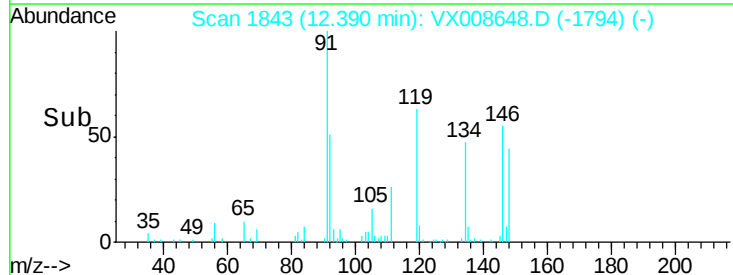
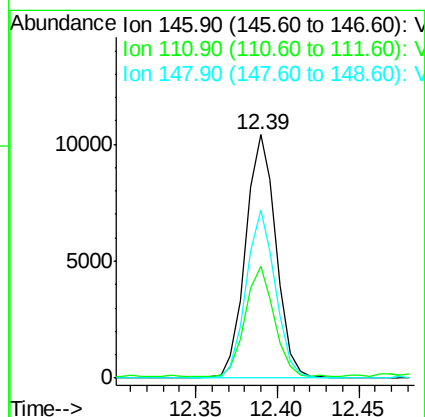
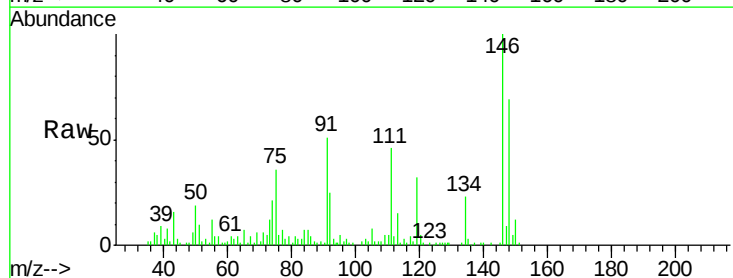
Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0713

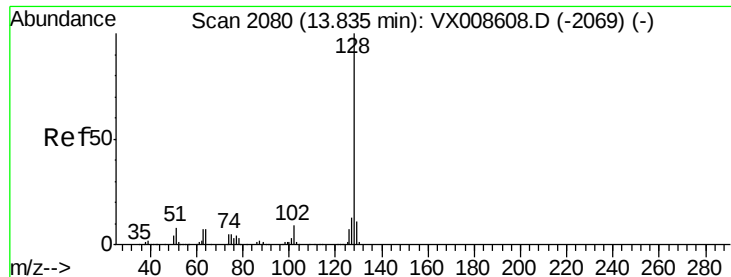
Tot Ion:146 Resp: 11622
 Ion Ratio Lower Upper
 146 100
 111 53.8 20.2 60.6
 148 66.9 32.0 96.0



#91
 1,2-Dichlorobenzene
 Concen: 2.840 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX008648.D
 Acq: 04 Apr 2019 20:00

Tgt Ion:146 Resp: 13483
 Ion Ratio Lower Upper
 146 100
 111 43.5 21.3 63.9
 148 66.5 31.7 95.1





#95

Naphthalene

Concen: 20.980 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008648.D

Acq: 04 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

S8-0713

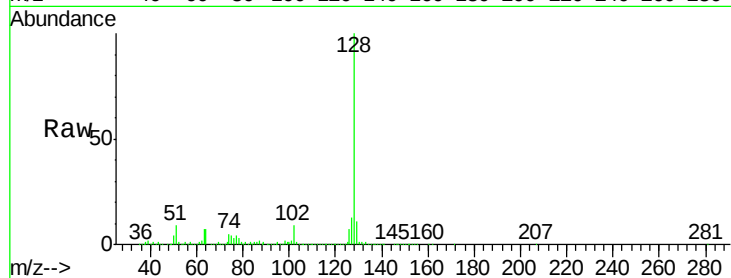
Tot Ion:128 Resp: 231432

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 11.2 8.6 13.0



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

