

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052720\
 Data File : VX016464.D
 Acq On : 27 May 2020 22:32
 Operator : JC/SP
 Sample : L2757-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C0AP3

Quant Time: May 28 07:49:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	284214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	465088	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	460413	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	252178	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	172623	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	5.47	113	137799	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
50) Toluene-d8	8.70	98	579342	51.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.96%	
62) 4-Bromofluorobenzene	11.12	95	259815	60.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.64%	

Target Compounds

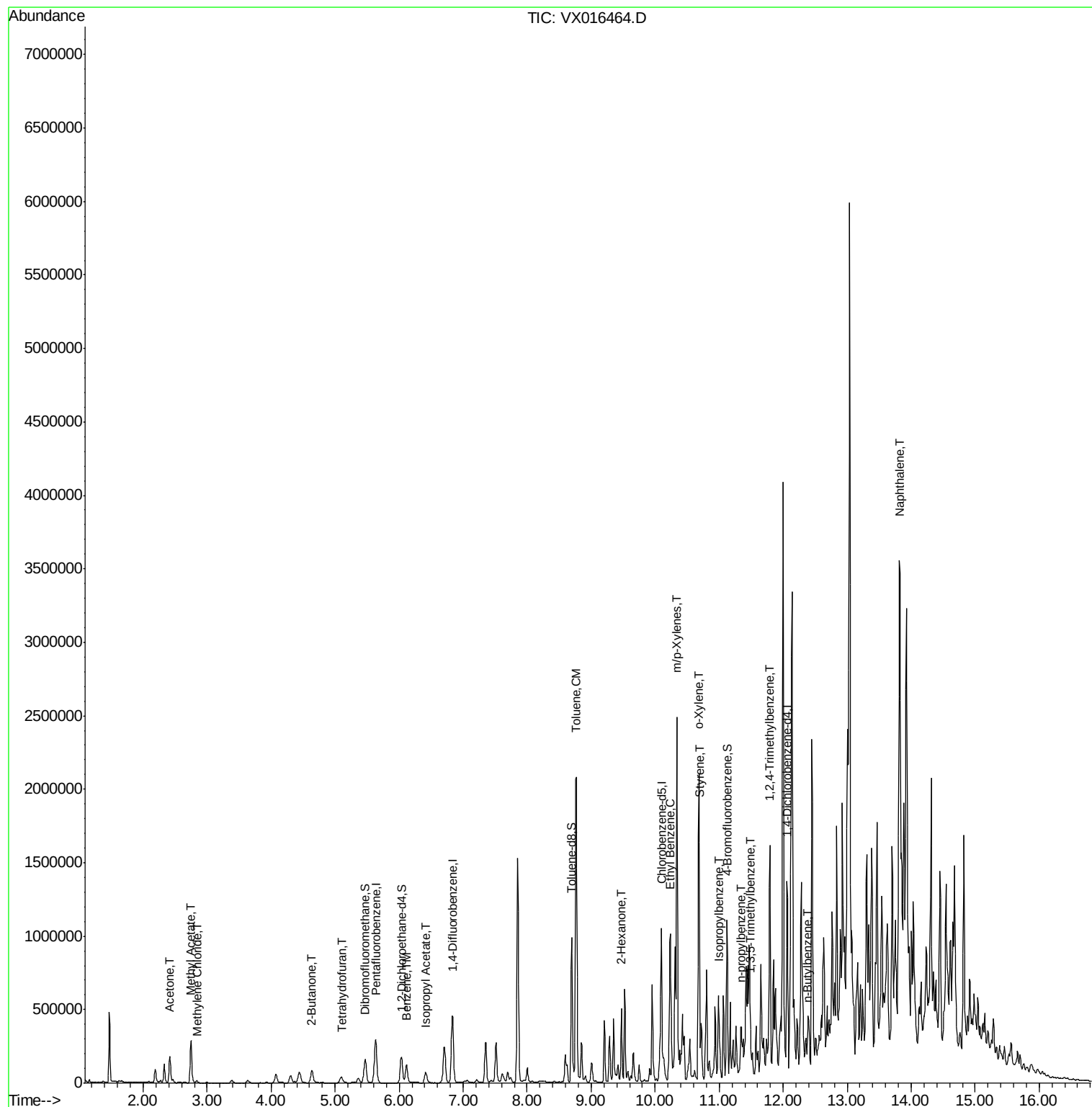
						Qvalue
16) Acetone	2.42	43	183057	118.377	ug/l	96
18) Methyl Acetate	2.75	43	343289	86.554	ug/l	100
20) Methylene Chloride	2.84	84	6378	1.994	ug/l	98
25) 2-Butanone	4.64	43	143470	54.753	ug/l	99
29) Tetrahydrofuran	5.10	42	35435	20.932	ug/l	99
40) Benzene	6.12	78	143710	10.959	ug/l	99
43) Isopropyl Acetate	6.42	43	90082	10.924	ug/l	97
52) Toluene	8.77	92	767720	92.841	ug/l	100
59) 2-Hexanone	9.48	43	247162	61.898	ug/l	95
67) Ethyl Benzene	10.24	91	571915	34.222	ug/l	100
68) m/p-Xylenes	10.34	106	558524	90.138	ug/l	99
69) o-Xylene	10.68	106	399684	66.604	ug/l	99
70) Styrene	10.70	104	97061	9.410	ug/l #	40
73) Isopropylbenzene	11.00	105	36631	2.096	ug/l	99
78) n-propylbenzene	11.34	91	114154	5.848	ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	131632	9.022	ug/l	99
84) 1,2,4-Trimethylbenzene	11.79	105	522890	35.439	ug/l	99
89) n-Butylbenzene	12.37	91	30626	2.510	ug/l #	59
95) Naphthalene	13.82	128	1569812	89.635	ug/l	97

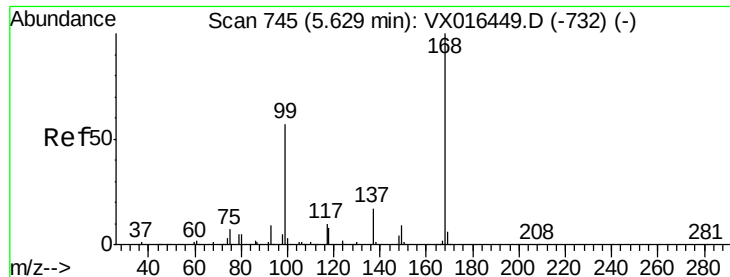
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

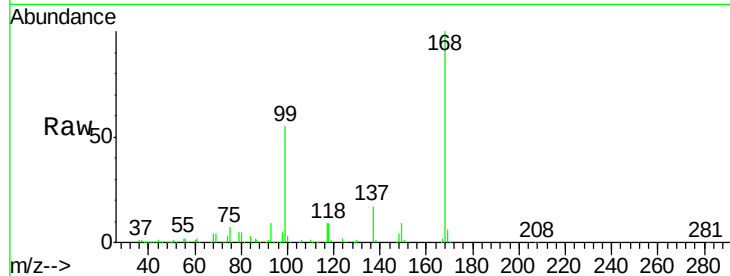
C0AP3

Tot Ion:168 Resp: 284214

Ion Ratio Lower Upper

168 100

99 54.6 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

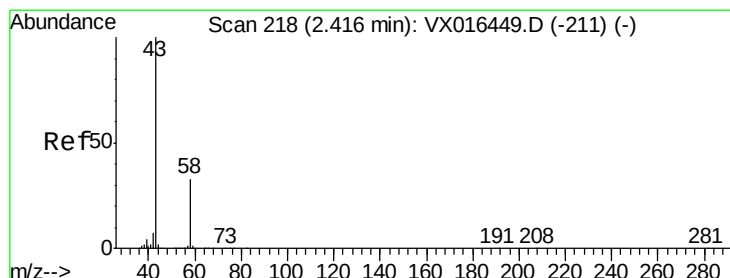
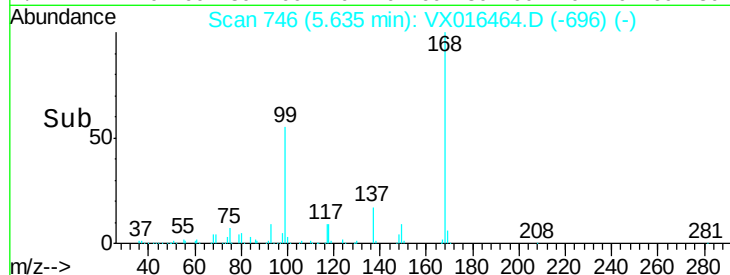
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 118.377 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016464.D

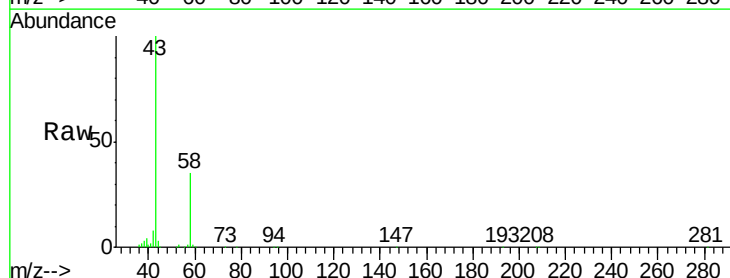
Acq: 27 May 2020 22:32

Tgt Ion: 43 Resp: 183057

Ion Ratio Lower Upper

43 100

58 35.0 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

120000

100000

80000

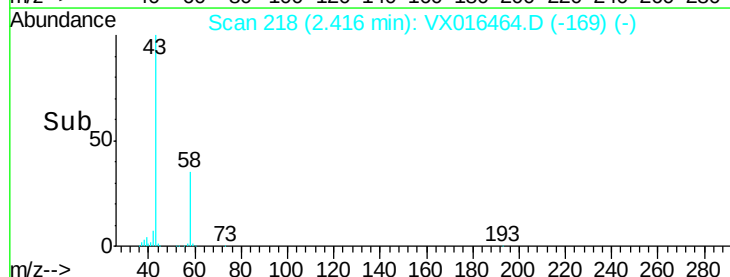
60000

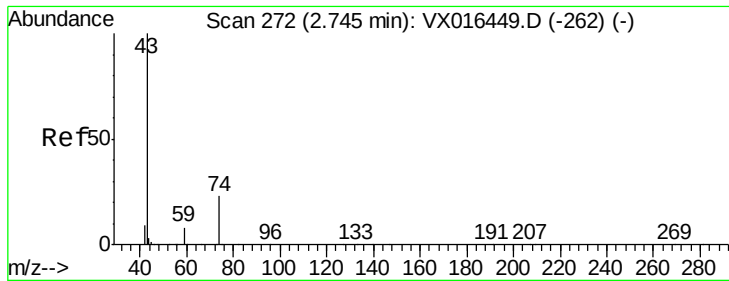
40000

20000

0

Time-->

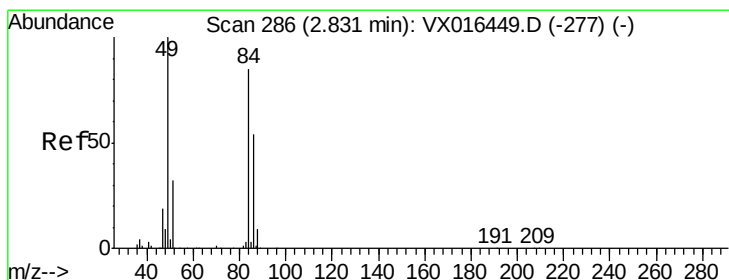
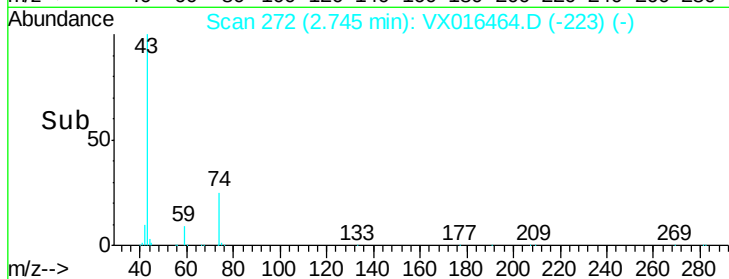
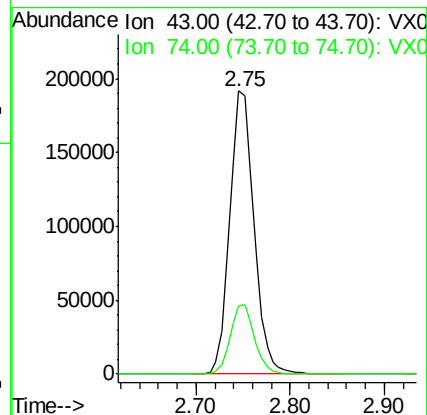
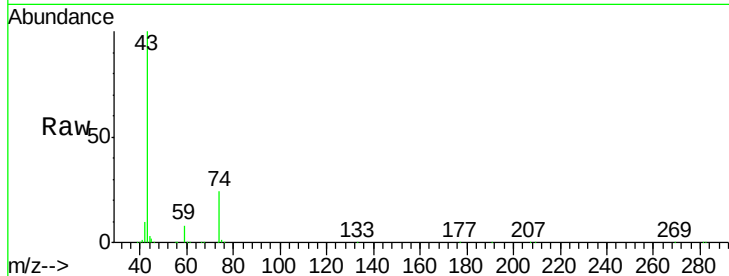




#18
Methyl Acetate
Concen: 86.554 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX016464.D
Acq: 27 May 2020 22:32

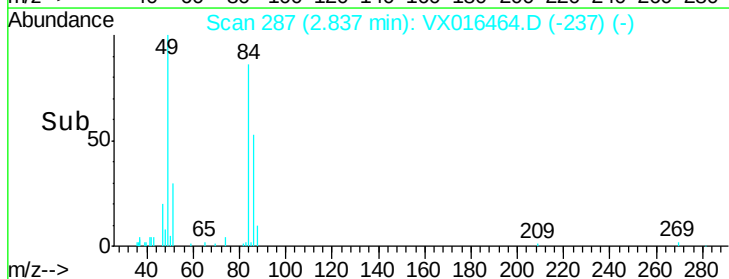
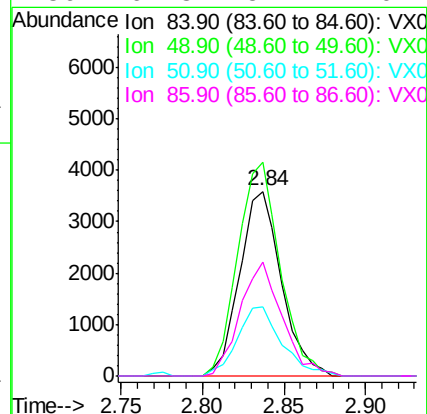
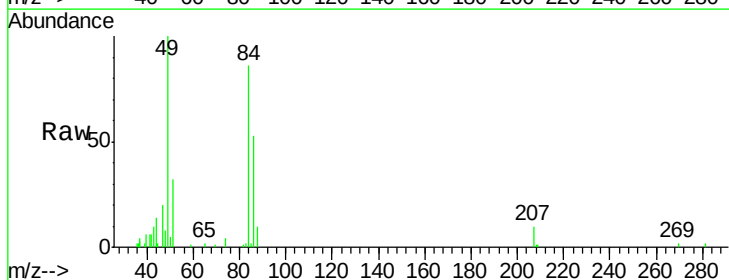
Instrument :
MSVOA_X
ClientSampleId :
C0AP3

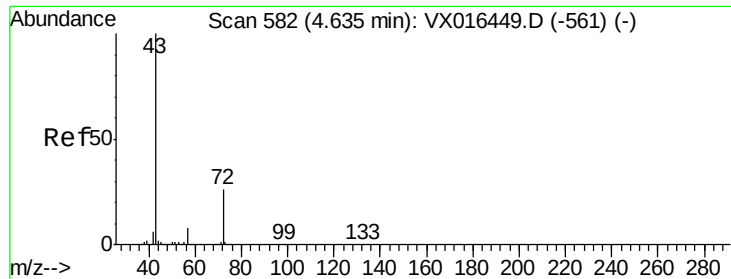
Tot Ion: 43 Resp: 343289
Ion Ratio Lower Upper
43 100
74 24.4 19.7 29.5



#20
Methylene Chloride
Concen: 1.994 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX016464.D
Acq: 27 May 2020 22:32

Tgt Ion: 84 Resp: 6378
Ion Ratio Lower Upper
84 100
49 115.6 94.5 141.7
51 37.4 30.2 45.4
86 61.8 51.1 76.7





#25

2-Butanone

Concen: 54.753 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

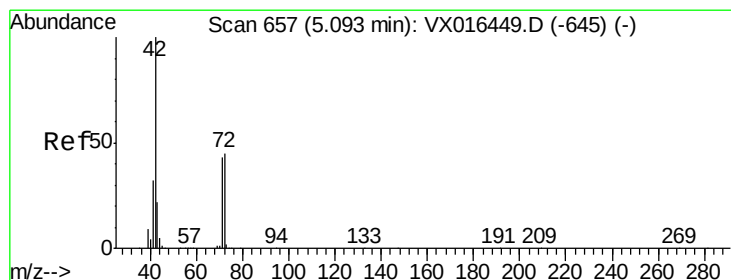
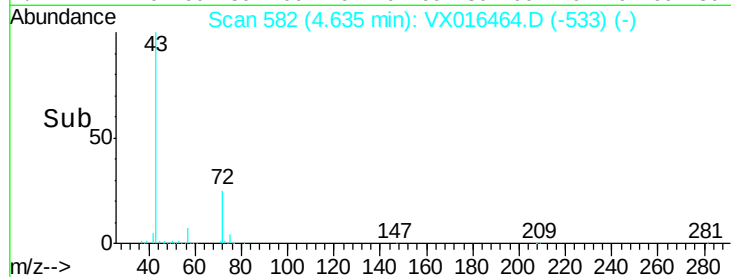
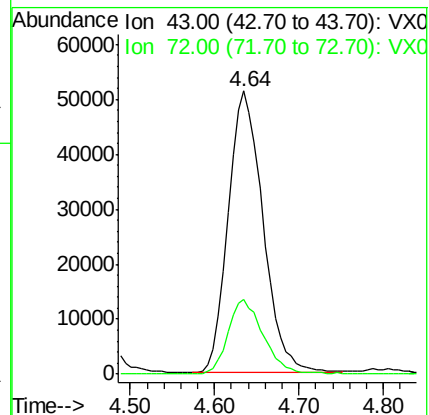
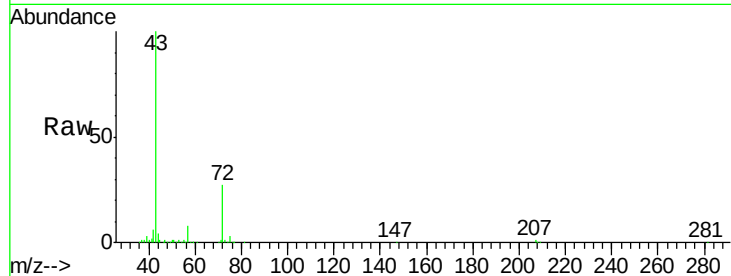
C0AP3

Tot Ion: 43 Resp: 143470

Ion Ratio Lower Upper

43 100

72 26.7 21.0 31.6



#29

Tetrahydrofuran

Concen: 20.932 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

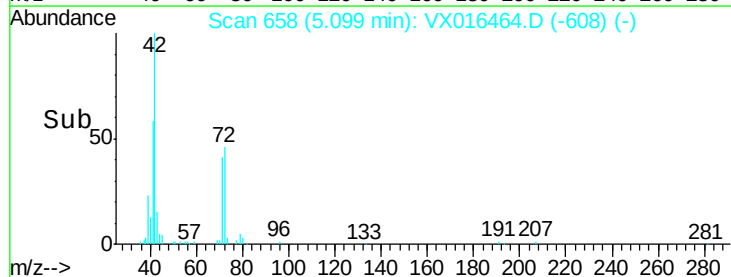
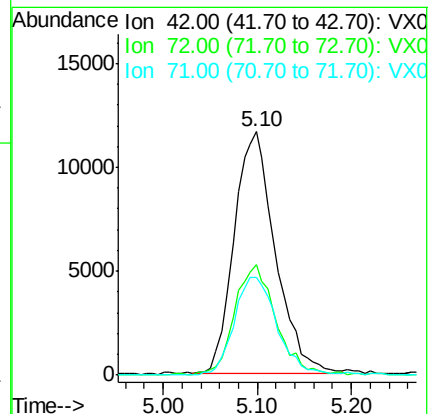
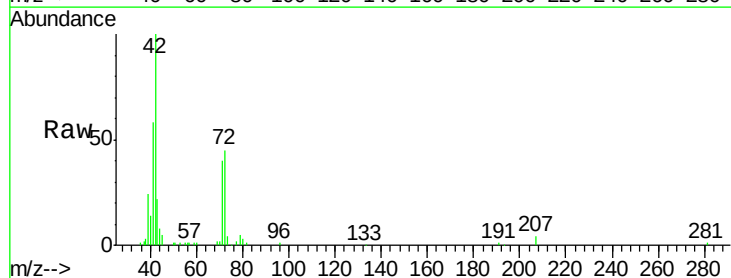
Tgt Ion: 42 Resp: 35435

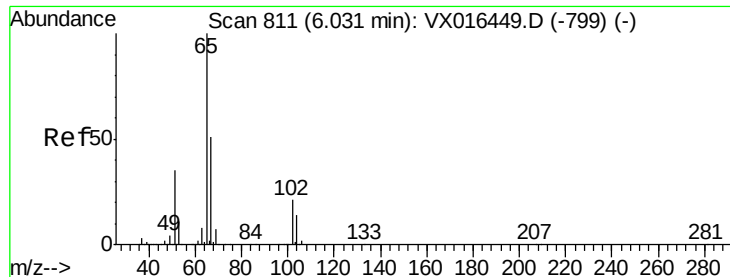
Ion Ratio Lower Upper

42 100

72 45.9 37.0 55.4

71 42.1 34.1 51.1

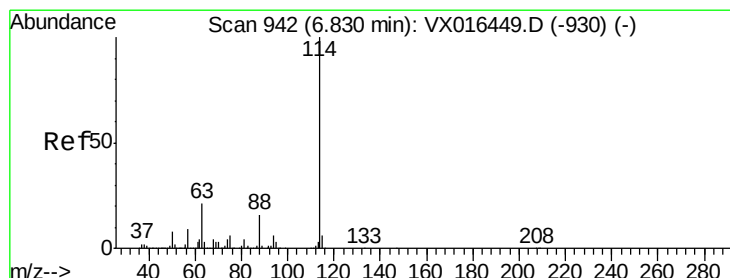
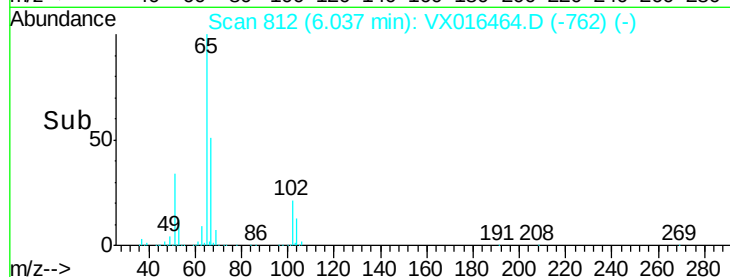
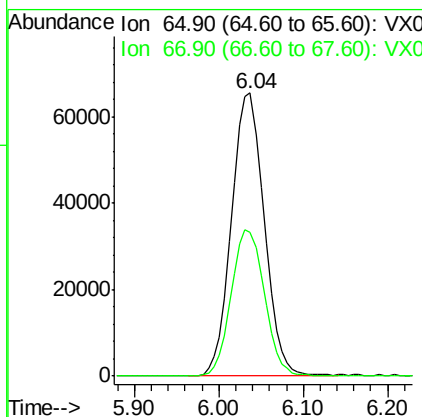
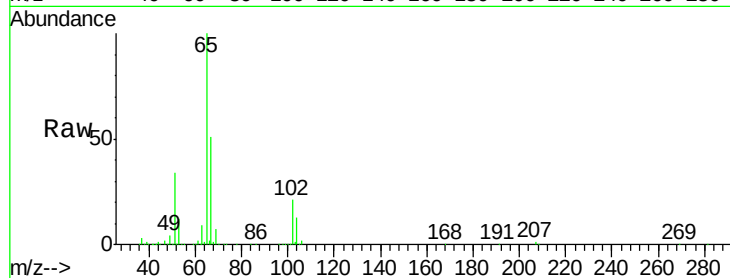




#33
 1,2-Dichloroethane-d4
 Concen: 48.908 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX016464.D
 Acq: 27 May 2020 22:32

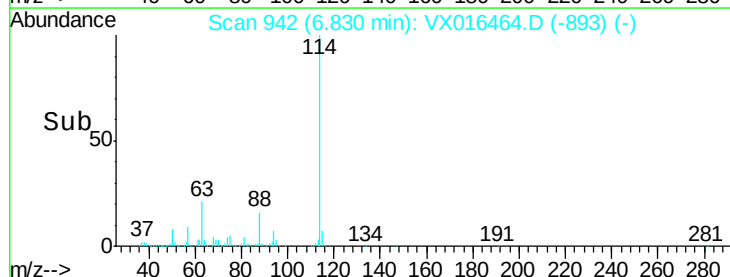
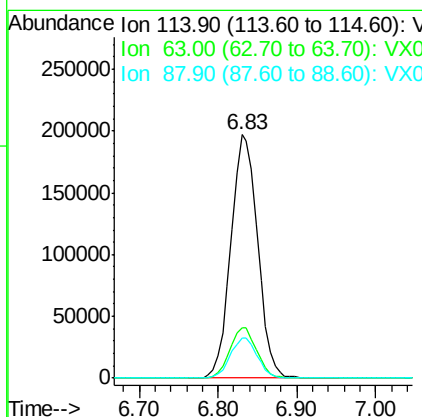
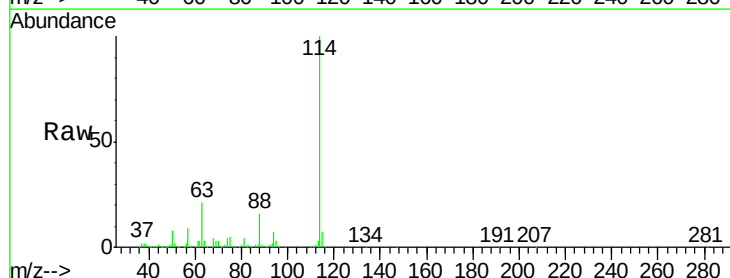
Instrument :
 MSVOA_X
 ClientSampleId :
 C0AP3

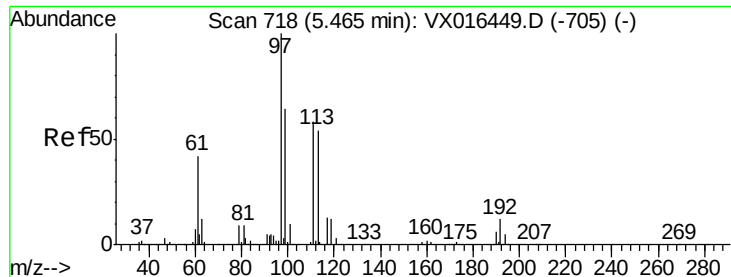
Tot Ion: 65 Resp: 172623
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016464.D
 Acq: 27 May 2020 22:32

Tgt Ion: 114 Resp: 465088
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.6
 88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.118 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

C0AP3

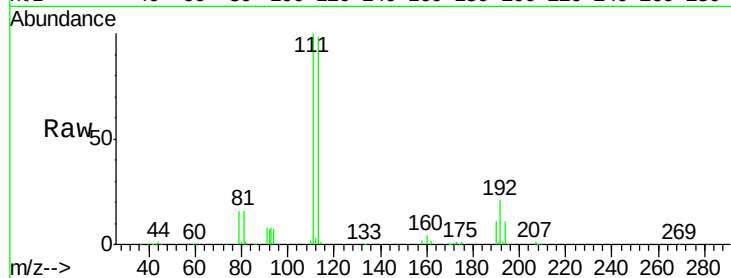
Tot Ion:113 Resp: 137799

Ion Ratio Lower Upper

113 100

111 102.8 83.0 124.6

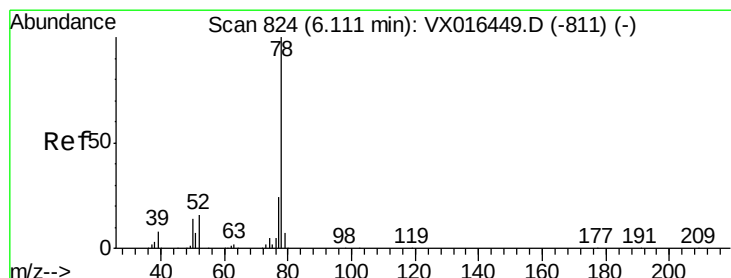
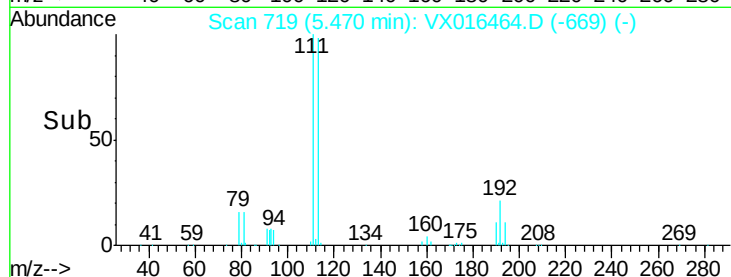
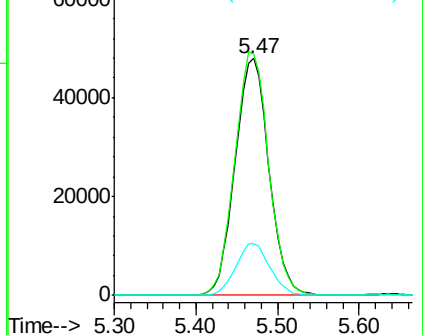
192 21.9 17.7 26.5



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: 10.959 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX016464.D

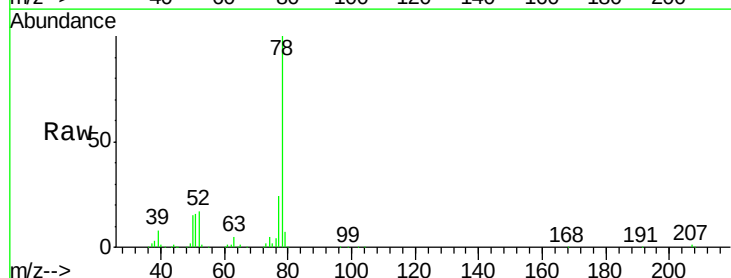
Acq: 27 May 2020 22:32

Tgt Ion: 78 Resp: 143710

Ion Ratio Lower Upper

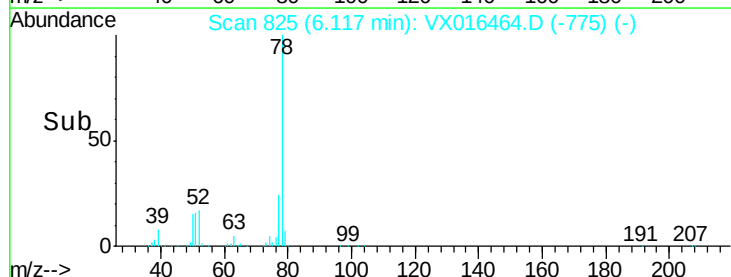
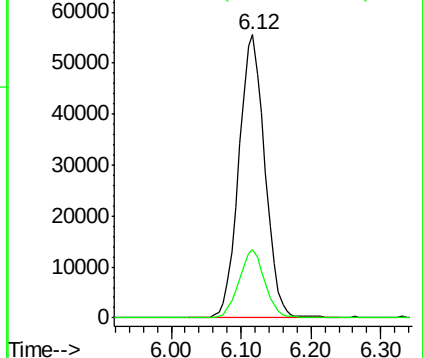
78 100

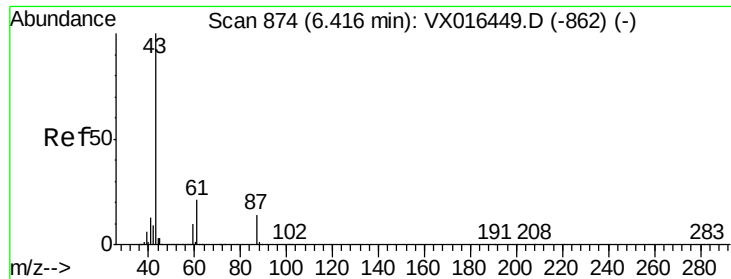
77 24.2 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 10.924 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

C0AP3

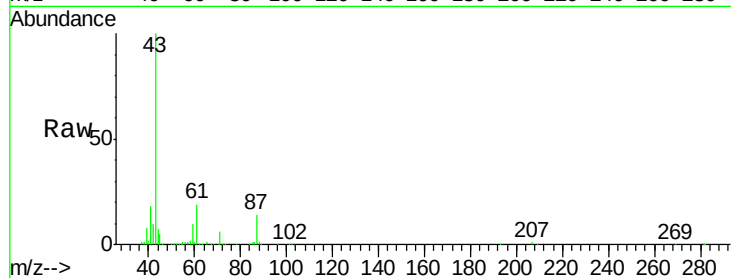
Tot Ion: 43 Resp: 90082

Ion Ratio Lower Upper

43 100

61 19.7 16.8 25.2

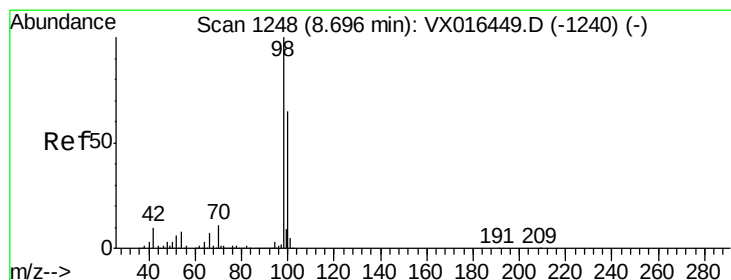
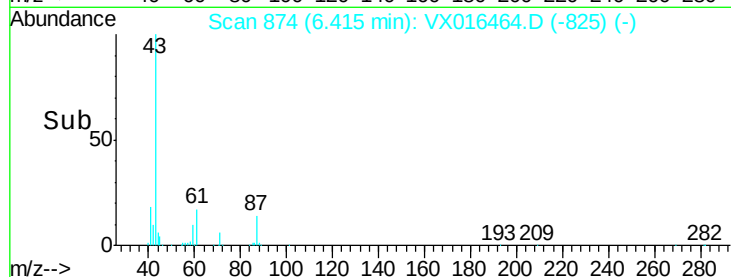
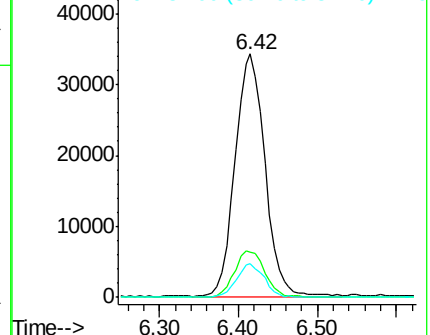
87 13.0 11.2 16.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 51.976 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016464.D

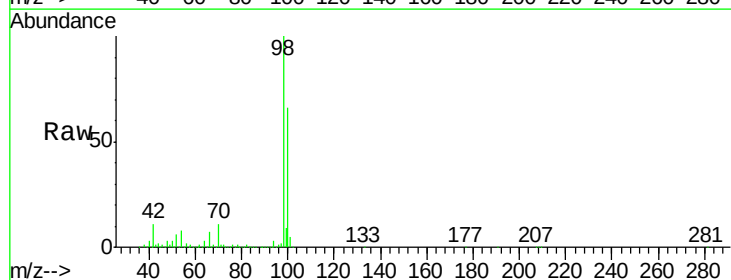
Acq: 27 May 2020 22:32

Tgt Ion: 98 Resp: 579342

Ion Ratio Lower Upper

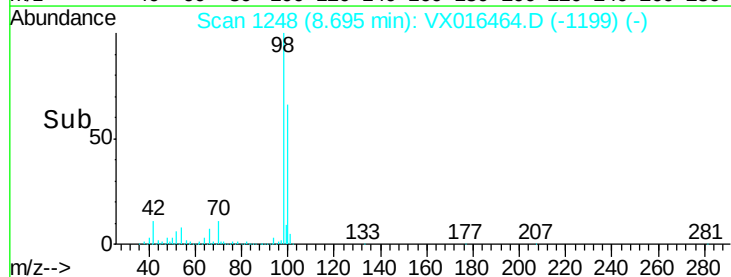
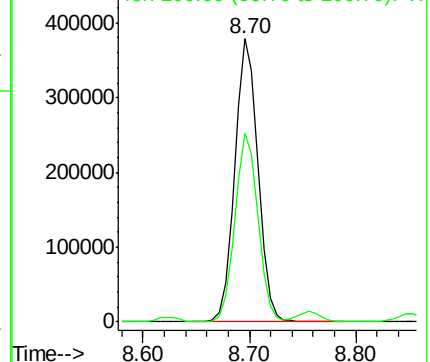
98 100

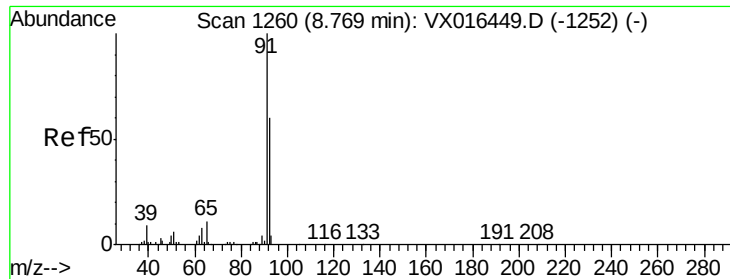
100 66.0 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 92.841 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

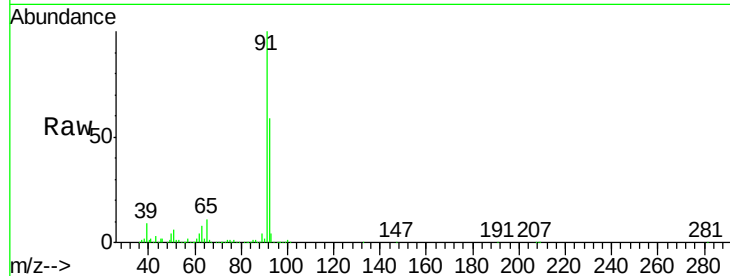
C0AP3

Tot Ion: 92 Resp: 767720

Ion Ratio Lower Upper

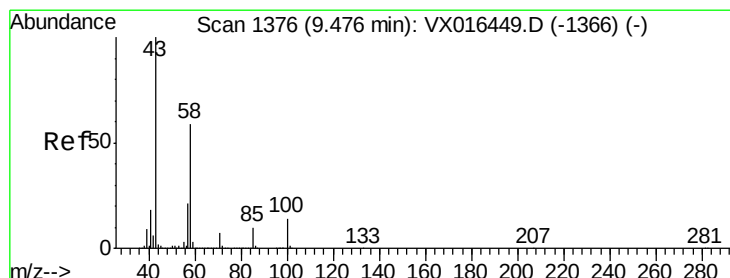
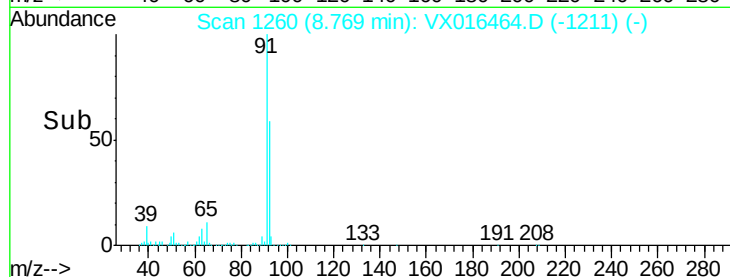
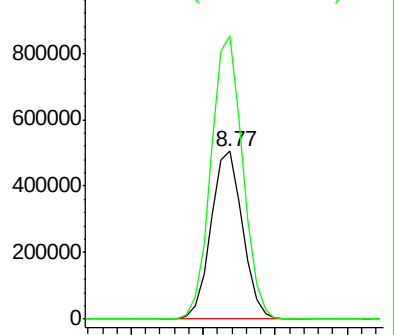
92 100

91 168.9 135.0 202.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 61.898 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX016464.D

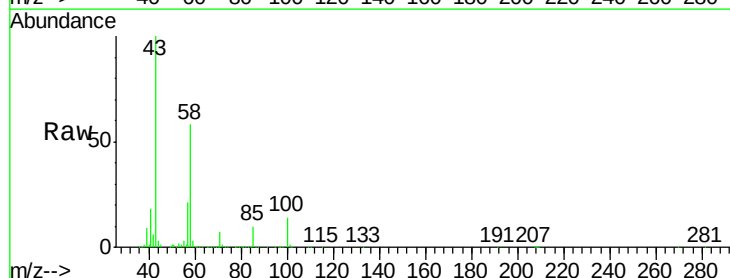
Acq: 27 May 2020 22:32

Tgt Ion: 43 Resp: 247162

Ion Ratio Lower Upper

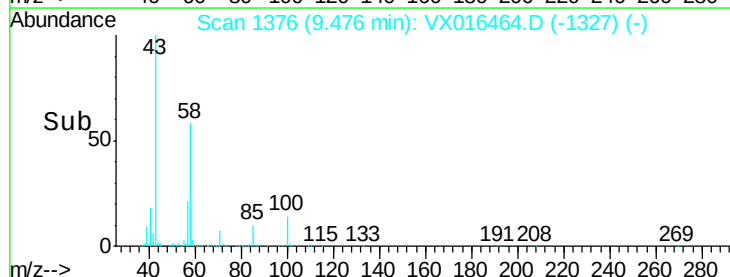
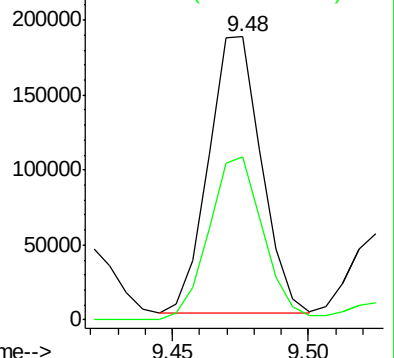
43 100

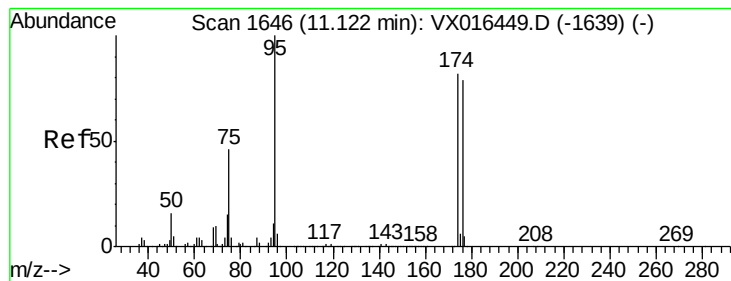
58 61.0 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 60.325 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampled :

C0AP3

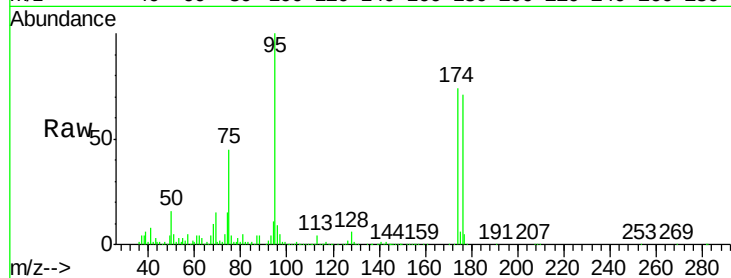
Tot Ion: 95 Resp: 259815

Ion Ratio Lower Upper

95 100

174 76.5 0.0 163.0

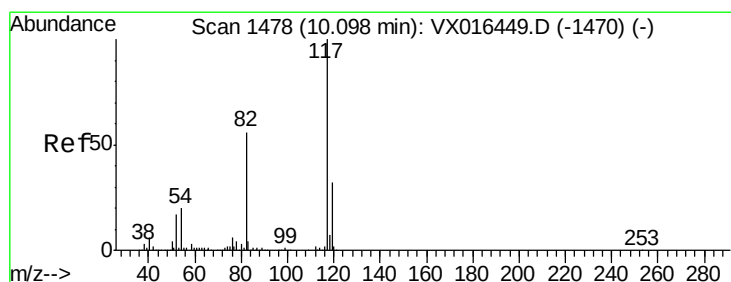
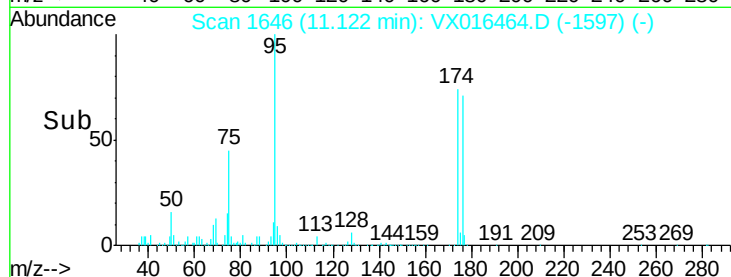
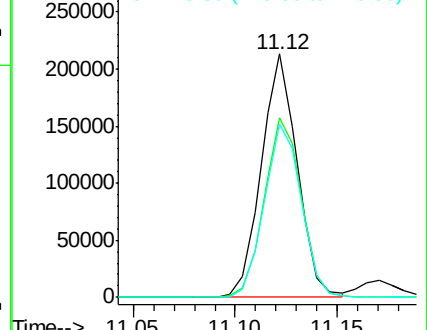
176 74.0 0.0 156.8



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: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

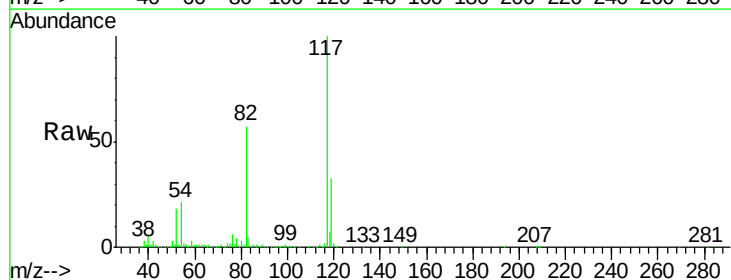
Tgt Ion: 117 Resp: 460413

Ion Ratio Lower Upper

117 100

82 56.5 45.0 67.6

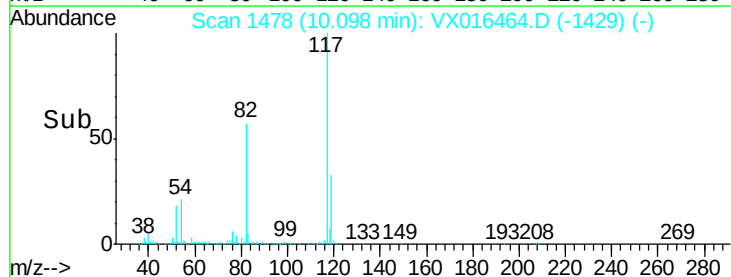
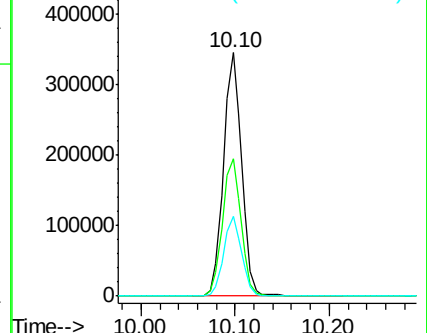
119 32.8 25.8 38.8

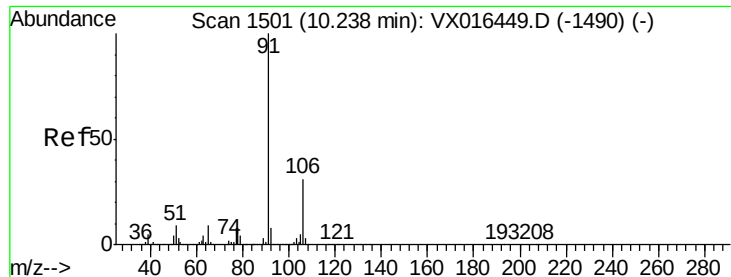


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 34.222 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

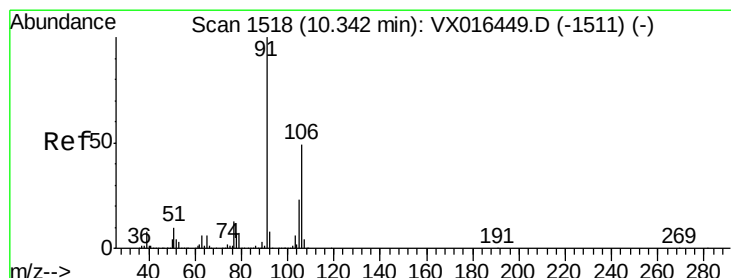
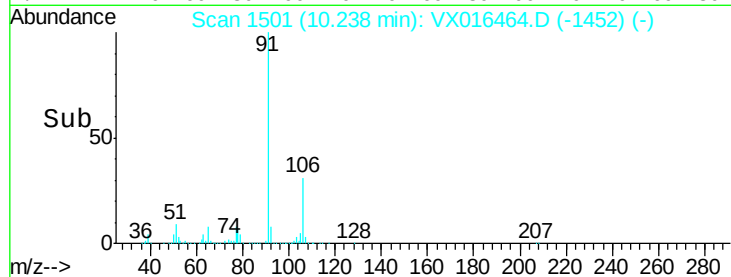
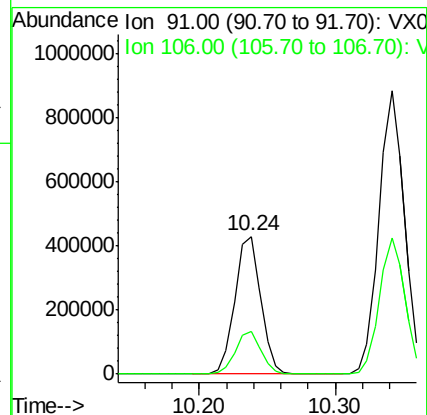
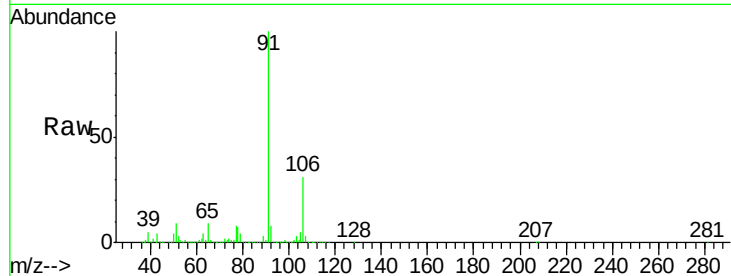
C0AP3

Tot Ion: 91 Resp: 571915

Ion Ratio Lower Upper

91 100

106 31.2 25.0 37.4



#68

m/p-Xylenes

Concen: 90.138 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016464.D

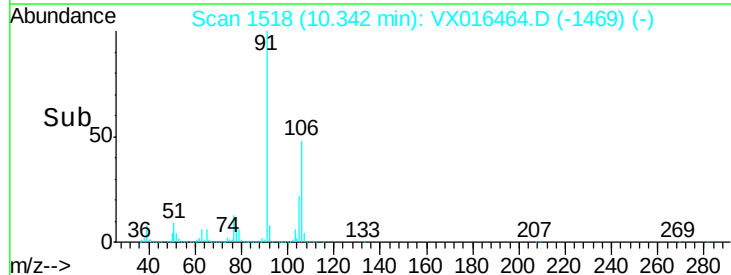
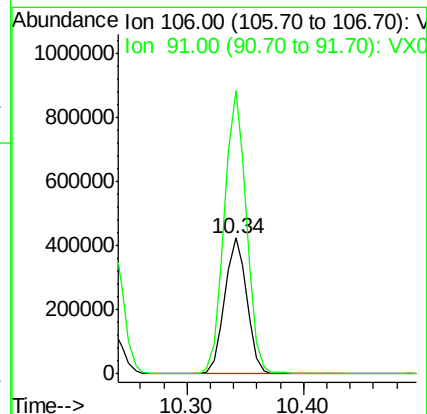
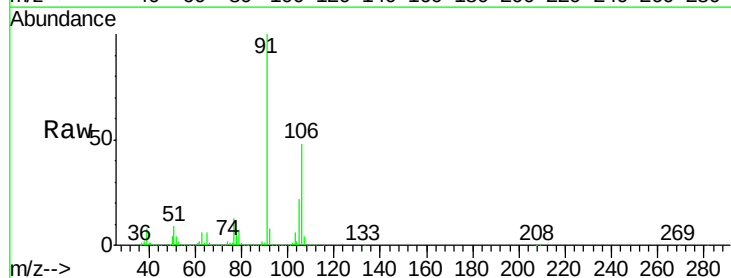
Acq: 27 May 2020 22:32

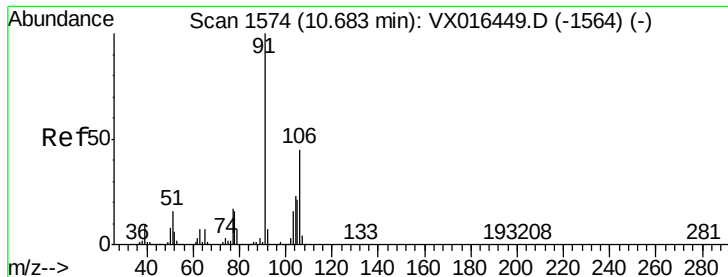
Tgt Ion: 106 Resp: 558524

Ion Ratio Lower Upper

106 100

91 206.6 163.8 245.8





#69

o-Xylene

Concen: 66.604 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

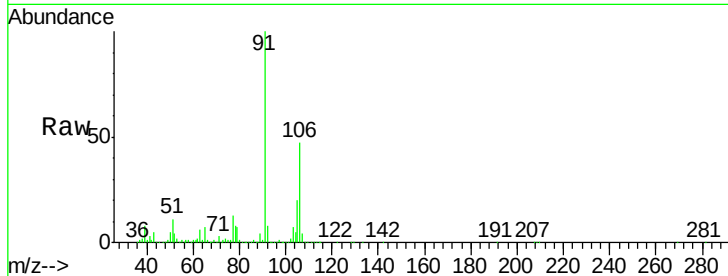
C0AP3

Tot Ion:106 Resp: 399684

Ion Ratio Lower Upper

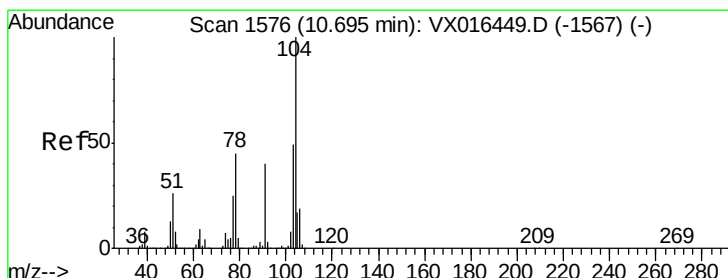
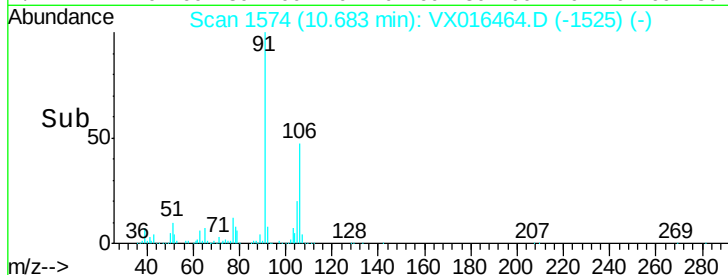
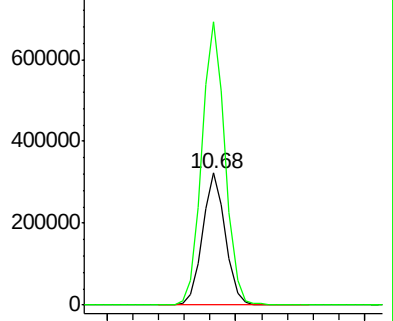
106 100

91 217.4 109.6 328.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#70

Styrene

Concen: 9.410 ug/l

RT: 10.70 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

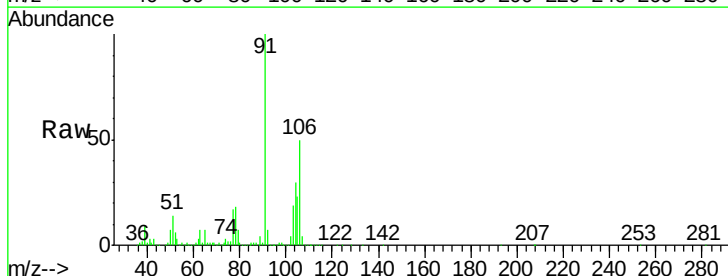
Tgt Ion:104 Resp: 97061

Ion Ratio Lower Upper

104 100

78 96.0 40.2 60.2#

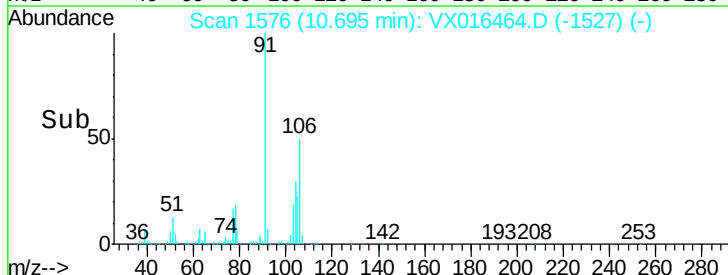
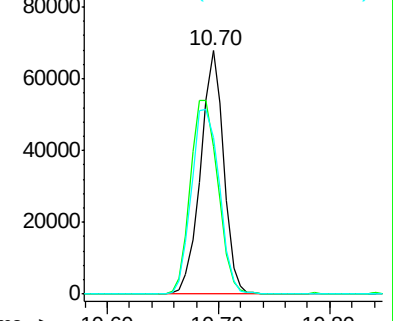
103 92.7 43.1 64.7#

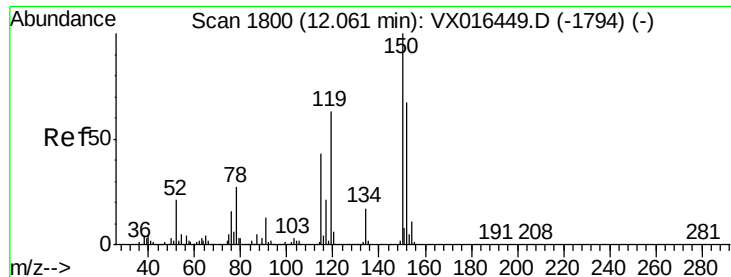


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

C0AP3

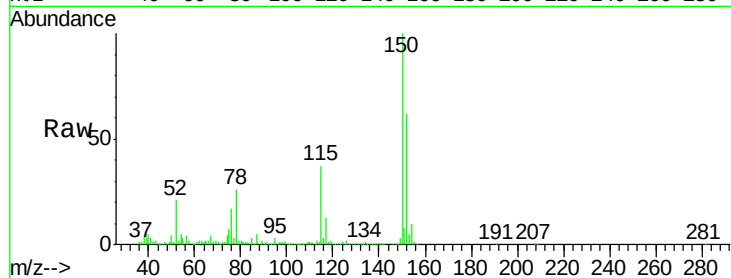
Tot Ion:152 Resp: 252178

Ion Ratio Lower Upper

152 100

115 59.6 39.9 119.6

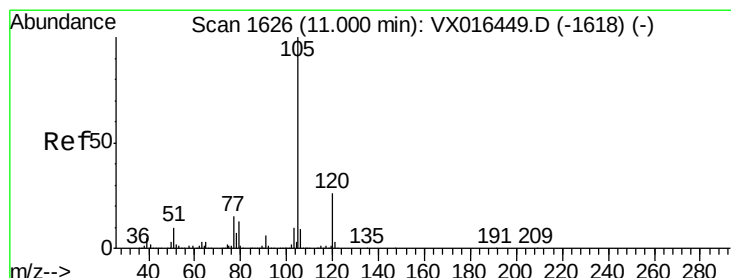
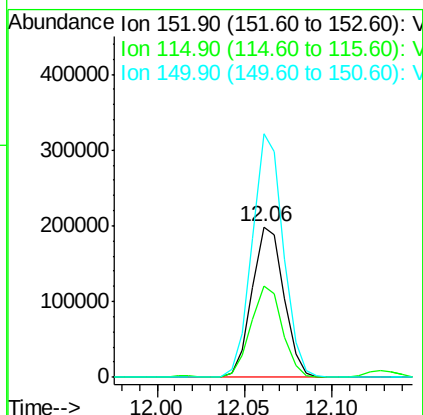
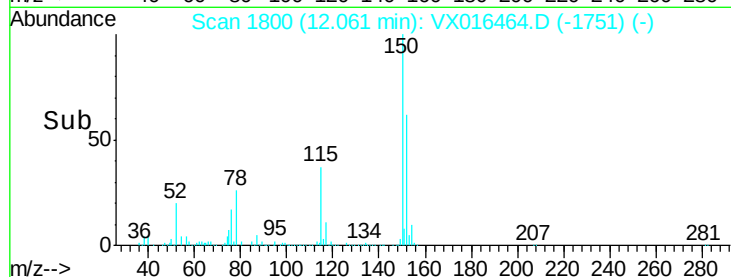
150 157.6 0.0 341.0



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: 2.096 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX016464.D

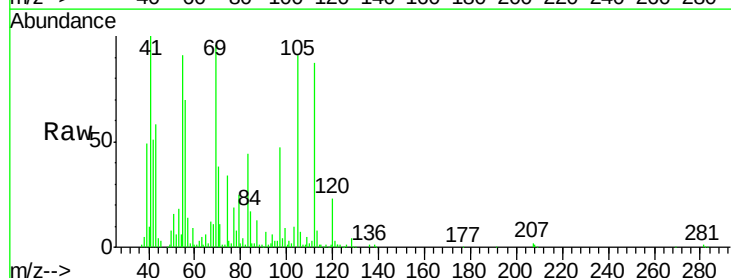
Acq: 27 May 2020 22:32

Tgt Ion:105 Resp: 36631

Ion Ratio Lower Upper

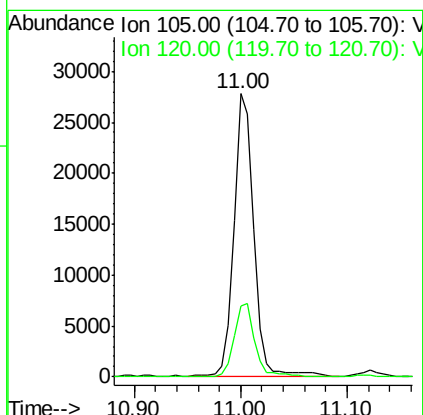
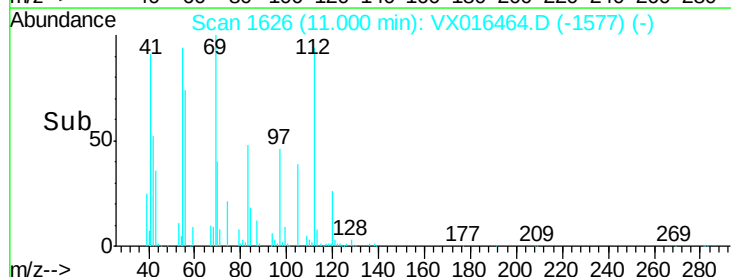
105 100

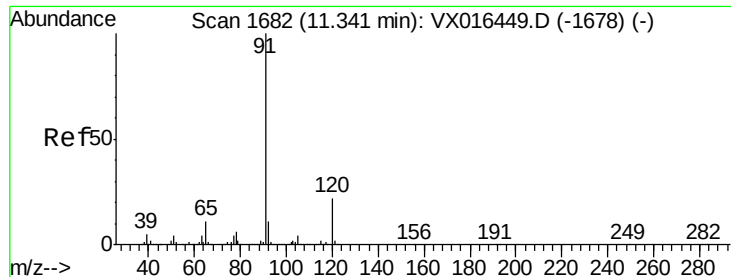
120 27.0 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.848 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampled :

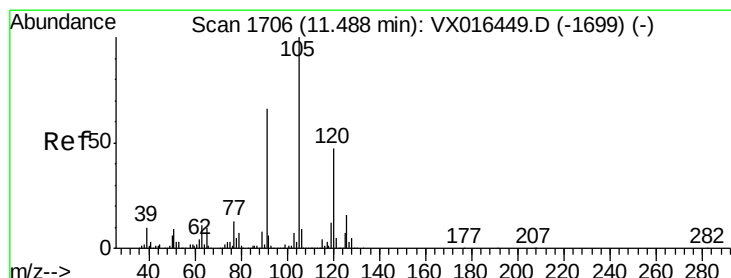
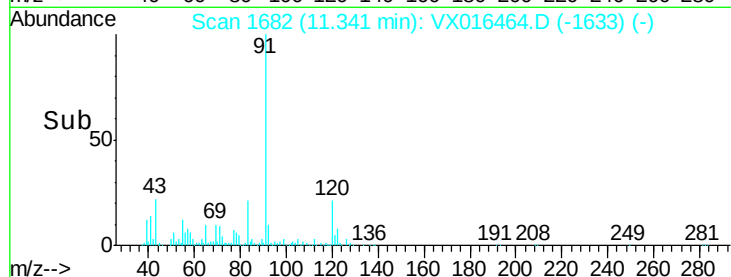
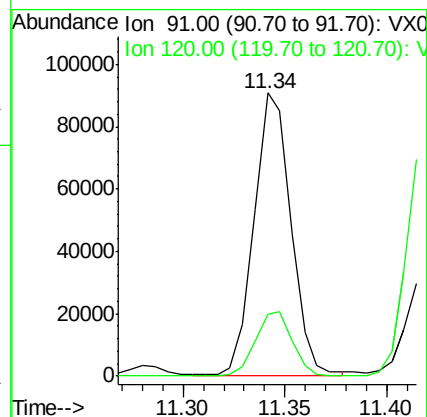
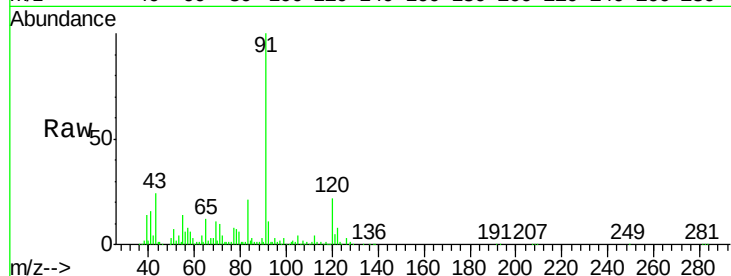
C0AP3

Tot Ion: 91 Resp: 114154

Ion Ratio Lower Upper

91 100

120 22.9 11.6 34.7



#80

1,3,5-Trimethylbenzene

Concen: 9.022 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX016464.D

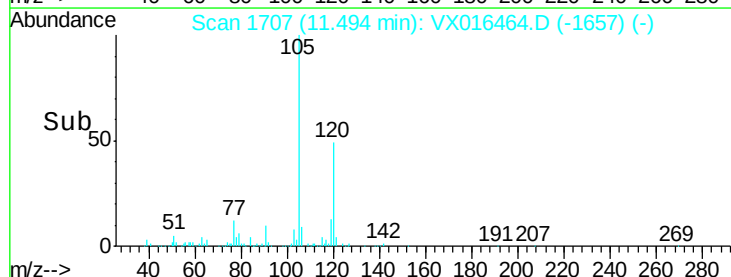
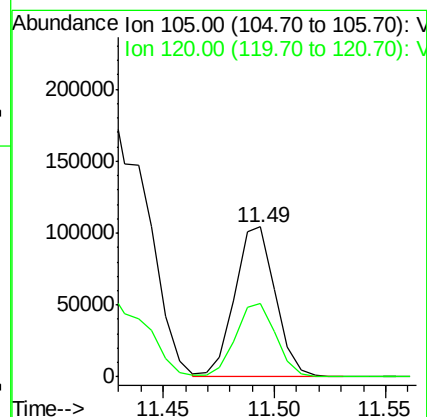
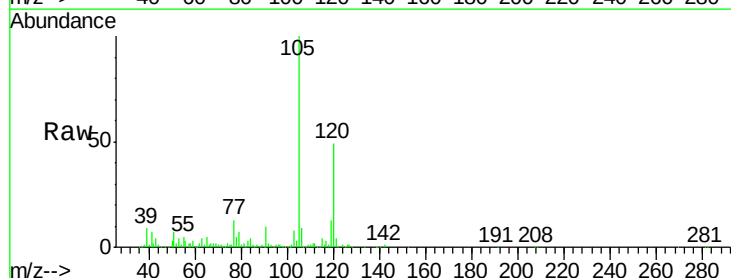
Acq: 27 May 2020 22:32

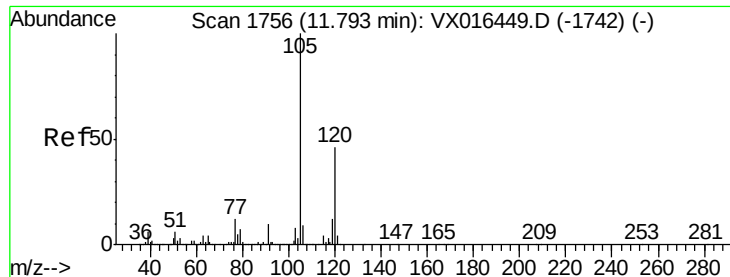
Tgt Ion: 105 Resp: 131632

Ion Ratio Lower Upper

105 100

120 49.2 24.3 72.8





#84

1,2,4-Trimethylbenzene

Concen: 35.439 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampled :

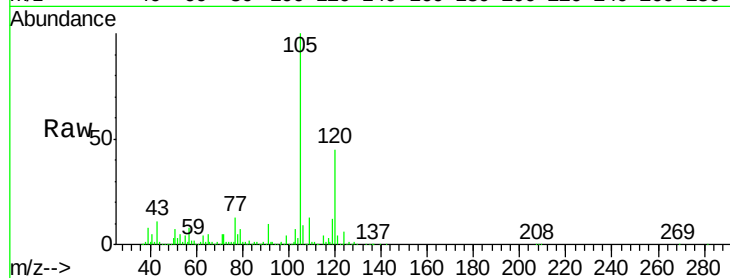
C0AP3

Tot Ion:105 Resp: 522890

Ion Ratio Lower Upper

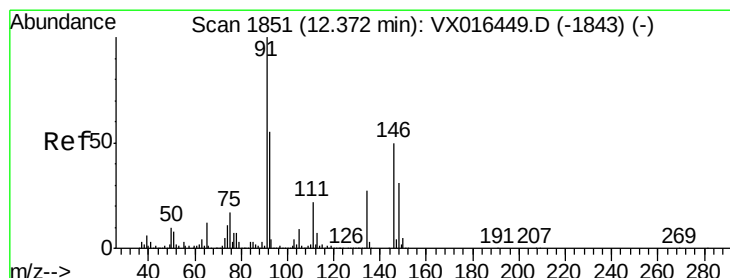
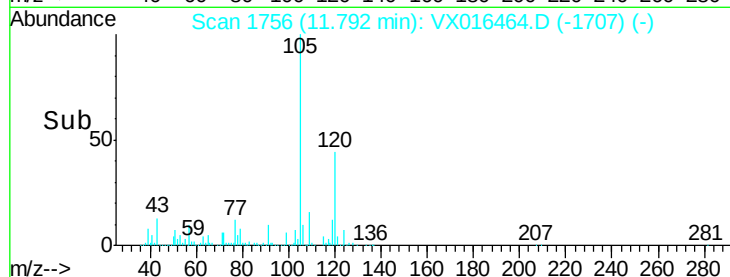
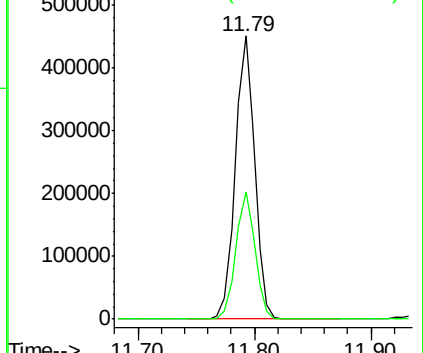
105 100

120 44.7 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#89

n-Butylbenzene

Concen: 2.510 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

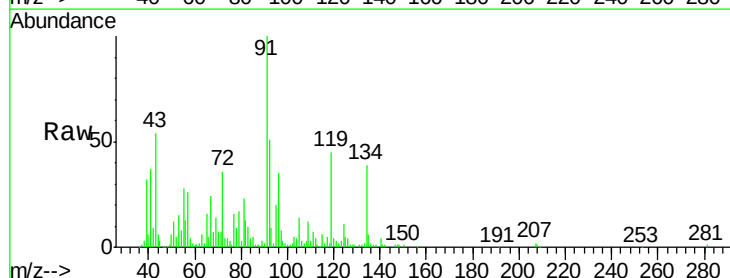
Tgt Ion: 91 Resp: 30626

Ion Ratio Lower Upper

91 100

92 47.9 27.2 81.5

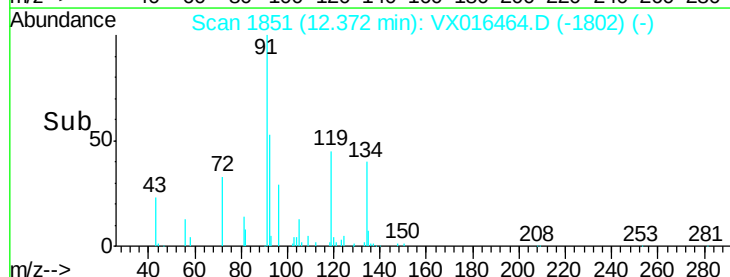
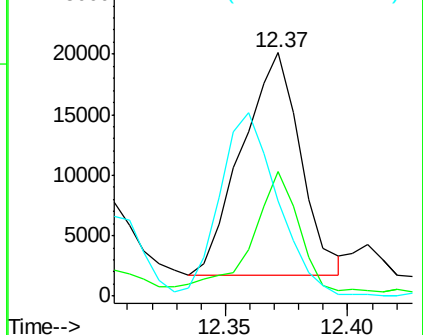
134 80.9 13.1 39.3#

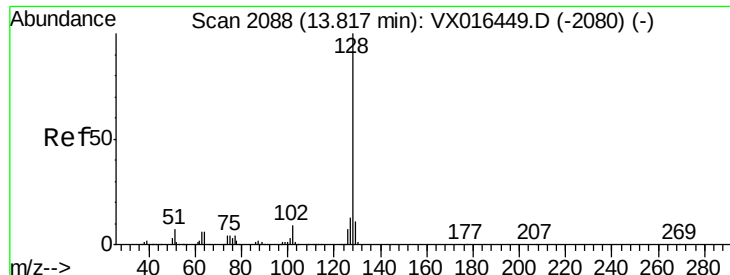


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 89.635 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016464.D

Acq: 27 May 2020 22:32

Instrument :

MSVOA_X

ClientSampleId :

C0AP3

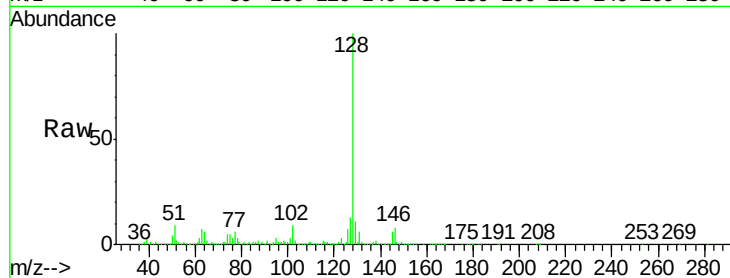
Tot Ion:128 Resp: 1569812

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

129 12.8 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

