

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061920\
 Data File : VX016893.D
 Acq On : 19 Jun 2020 20:24
 Operator : JC/SP
 Sample : L3054-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 218

Quant Time: Jun 22 06:06:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 19 12:07:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	234344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	375311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	373843	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	229473	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	136144	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
35) Dibromofluoromethane	5.46	113	119625	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
50) Toluene-d8	8.70	98	459200	47.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.62%	
62) 4-Bromofluorobenzene	11.12	95	222870	60.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.12%	

Target Compounds

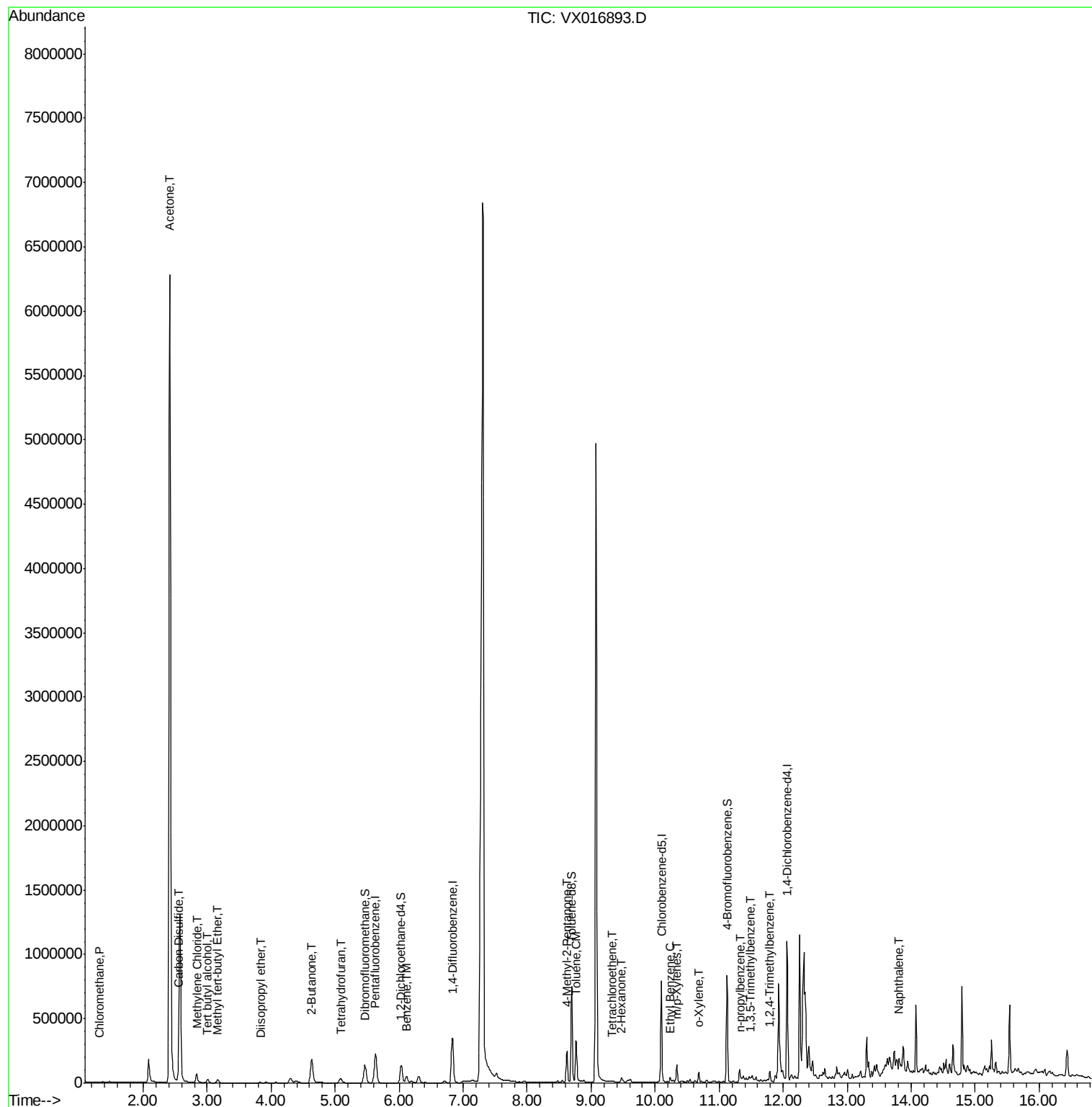
						Qvalue
3) Chloromethane	1.31	50	1102	0.378	ug/l	89
11) Tert butyl alcohol	3.00	59	33753	70.842	ug/l	100
16) Acetone	2.42	43	6806765	6652.889	ug/l	97
17) Carbon Disulfide	2.55	76	69314	10.710	ug/l	99
19) Methyl tert-butyl Ether	3.17	73	28444	3.986	ug/l	97
20) Methylene Chloride	2.84	84	35266	14.373	ug/l	98
22) Diisopropyl ether	3.83	45	3814	0.601	ug/l #	65
25) 2-Butanone	4.64	43	318979	226.533	ug/l	98
29) Tetrahydrofuran	5.09	42	2670	3.011	ug/l #	79
40) Benzene	6.12	78	65471	6.296	ug/l	99
51) 4-Methyl-2-Pentanone	8.62	43	133185	41.414	ug/l	100
52) Toluene	8.76	92	123930	17.966	ug/l	99
59) 2-Hexanone	9.48	43	16903	7.258	ug/l	99
64) Tetrachloroethene	9.32	164	863	0.249	ug/l	93
67) Ethyl Benzene	10.24	91	22183	1.737	ug/l	100
68) m/p-Xylenes	10.34	106	27044	5.441	ug/l	95
69) o-Xylene	10.68	106	17588	3.827	ug/l	97
78) n-propylbenzene	11.34	91	6606	0.401	ug/l	97
80) 1,3,5-Trimethylbenzene	11.49	105	7147	0.561	ug/l	94
84) 1,2,4-Trimethylbenzene	11.79	105	30203	2.300	ug/l	99
95) Naphthalene	13.82	128	40972	2.924	ug/l #	95

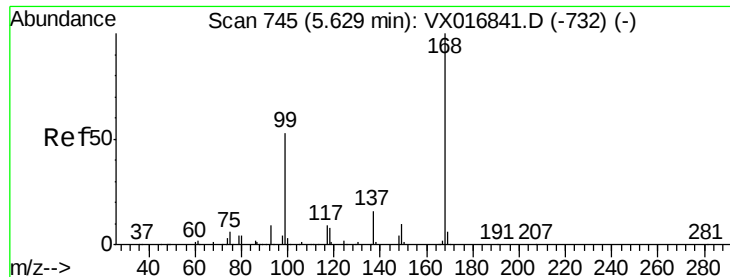
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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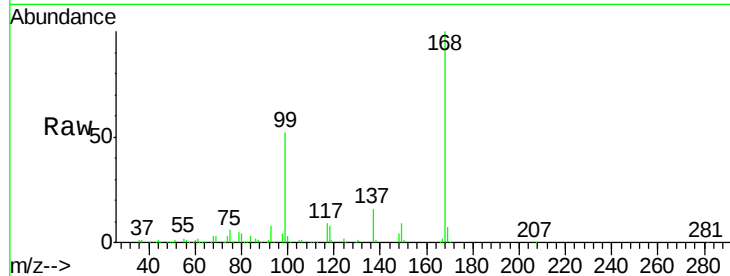


#1

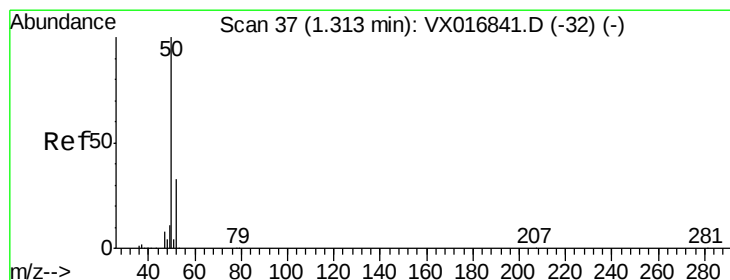
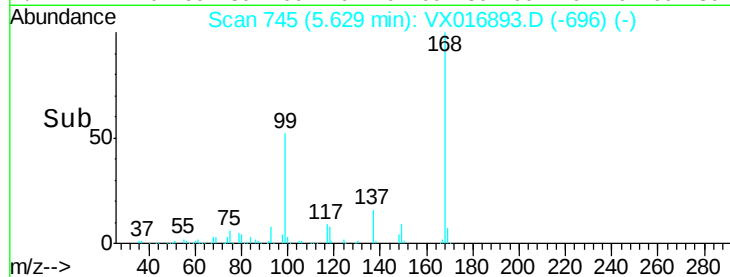
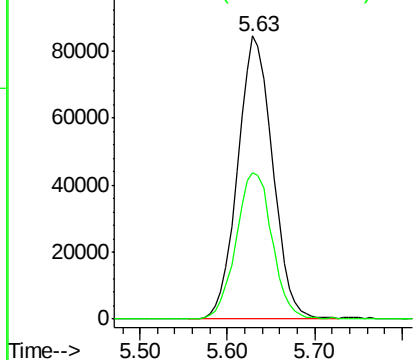
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VX016893.D
 Acq: 19 Jun 2020 20:24

Instrument :
 MSVOA_X
 ClientSampleId :
 218

Tot Ion:168 Resp: 234344
 Ion Ratio Lower Upper
 168 100
 99 51.6 42.2 63.2



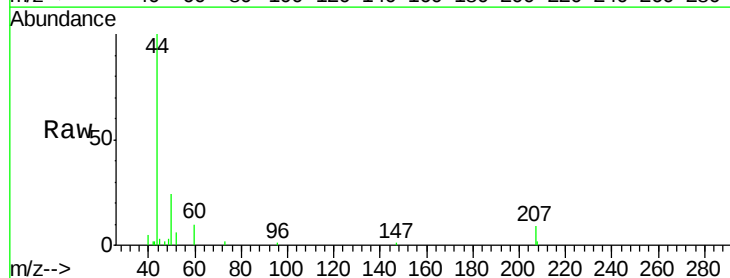
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



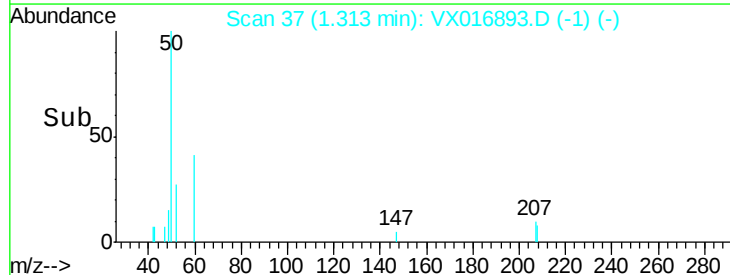
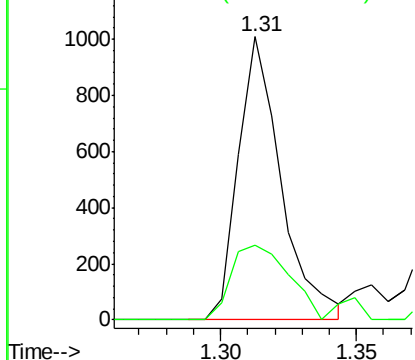
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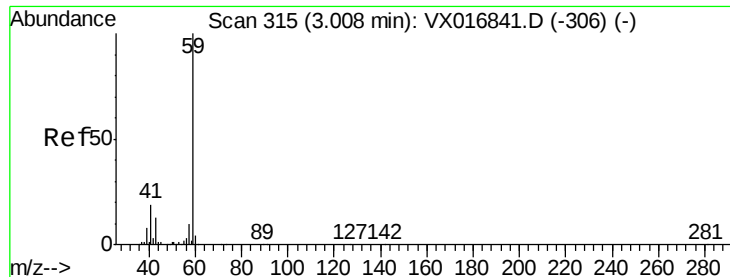
Chloromethane
 Concen: 0.378 ug/l
 RT: 1.31 min Scan# 37
 Delta R.T. -0.00 min
 Lab File: VX016893.D
 Acq: 19 Jun 2020 20:24

Tgt Ion: 50 Resp: 1102
 Ion Ratio Lower Upper
 50 100
 52 26.6 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0



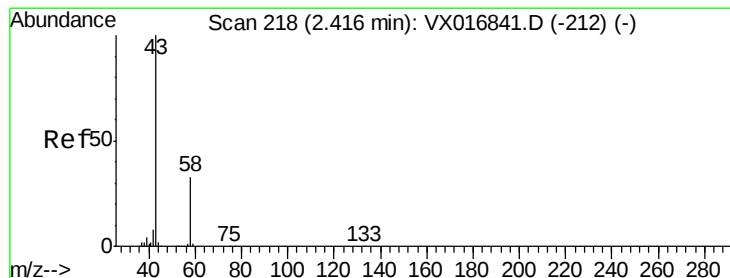
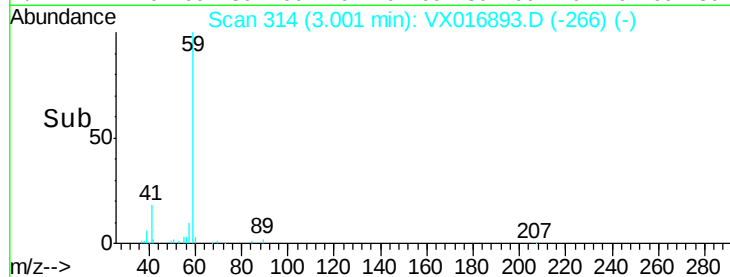
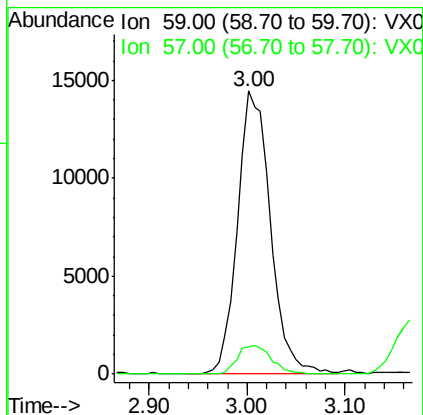
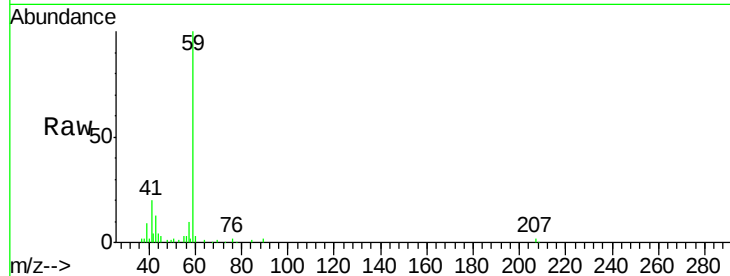


#11

Tert butyl alcohol
 Concen: 70.842 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX016893.D
 Acq: 19 Jun 2020 20:24

Instrument :
 MSVOA_X
 ClientSampleId :
 218

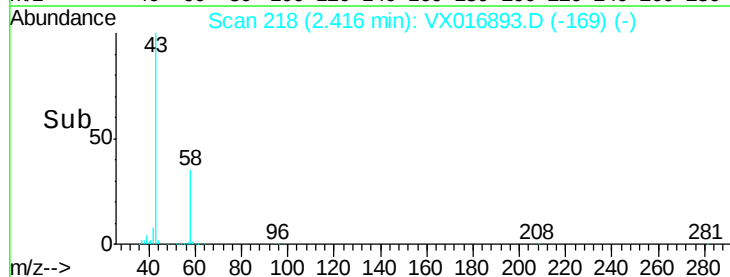
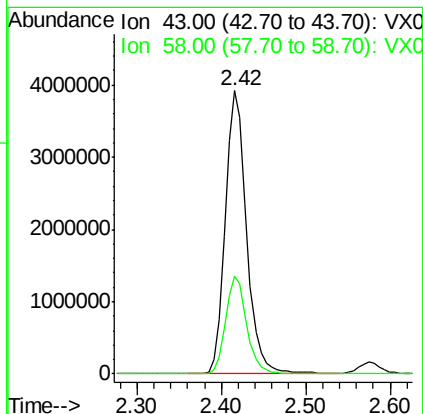
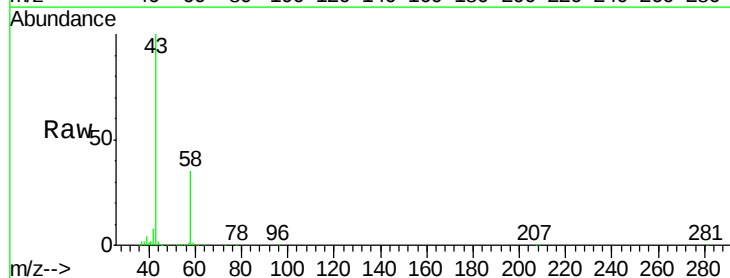
Tot Ion: 59 Resp: 33753
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.4 12.6

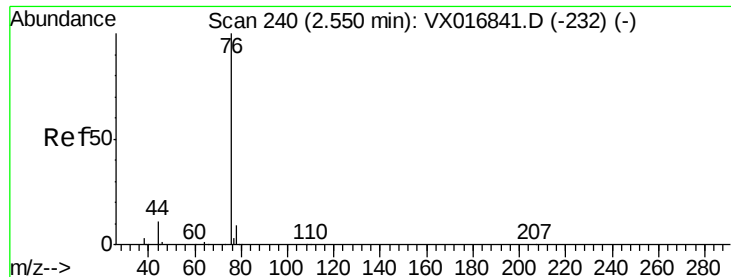


#16

Acetone
 Concen: 6652.889 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. 0.00 min
 Lab File: VX016893.D
 Acq: 19 Jun 2020 20:24

Tgt Ion: 43 Resp: 6806765
 Ion Ratio Lower Upper
 43 100
 58 34.7 26.6 39.8





#17

Carbon Disulfide

Concen: 10.710 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

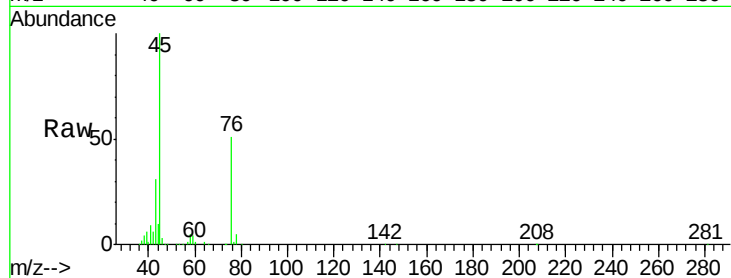
218

Tot Ion: 76 Resp: 69314

Ion Ratio Lower Upper

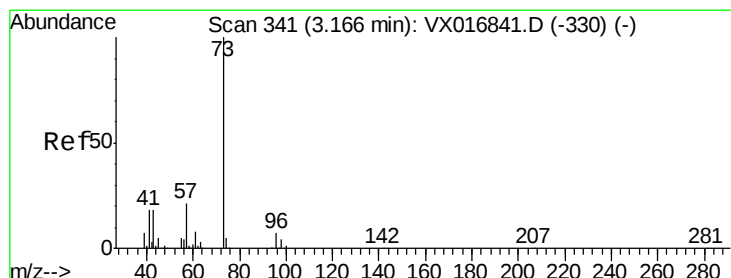
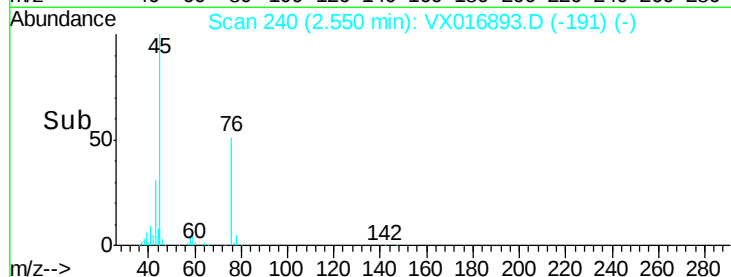
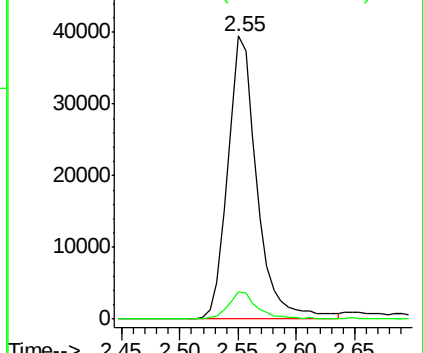
76 100

78 9.7 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 3.986 ug/l

RT: 3.17 min Scan# 341

Delta R.T. -0.00 min

Lab File: VX016893.D

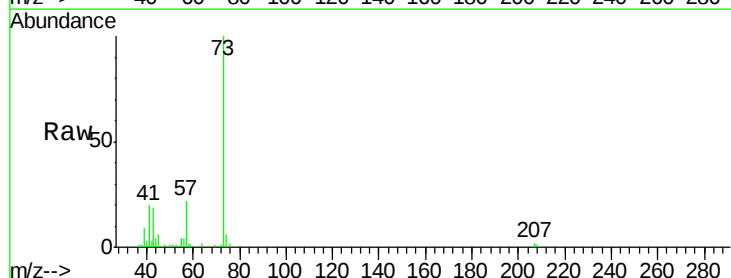
Acq: 19 Jun 2020 20:24

Tgt Ion: 73 Resp: 28444

Ion Ratio Lower Upper

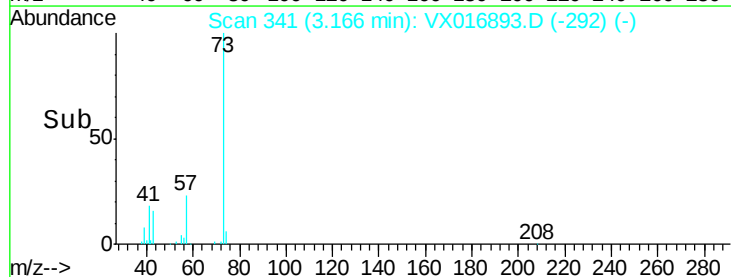
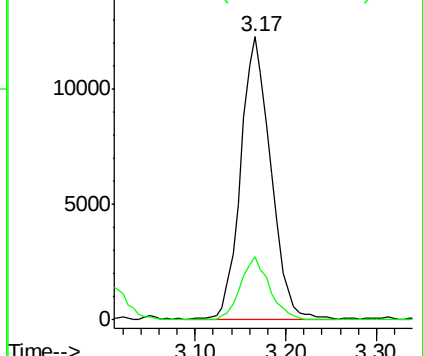
73 100

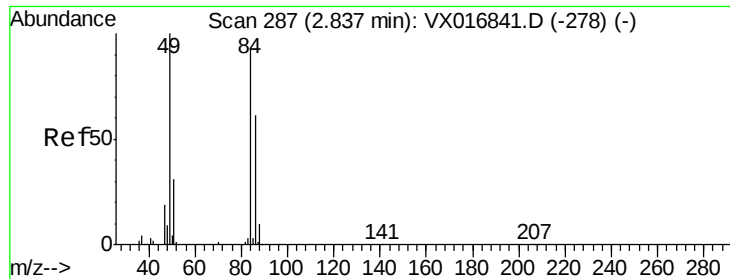
57 22.4 16.9 25.3



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

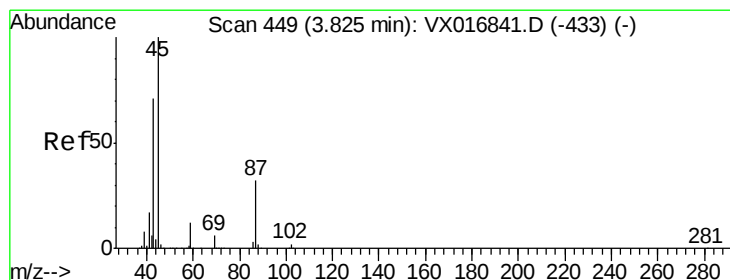
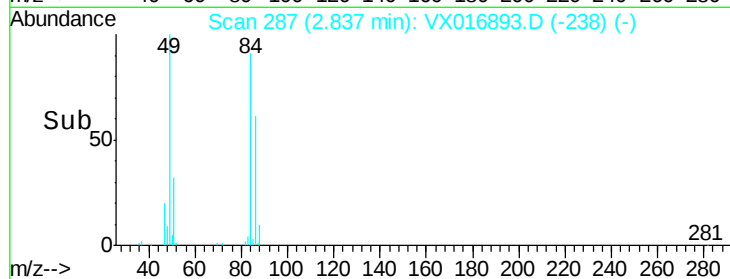
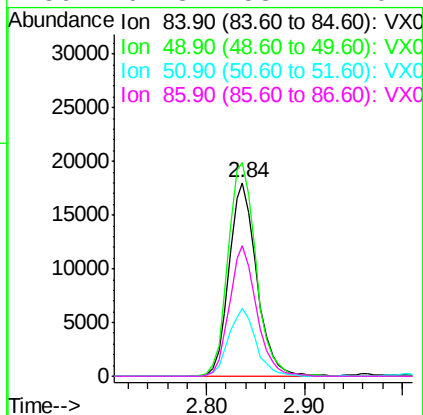
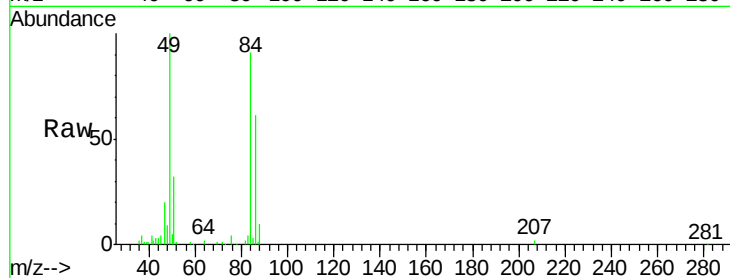




#20
Methvlene Chloride
Concen: 14.373 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016893.D
Acq: 19 Jun 2020 20:24

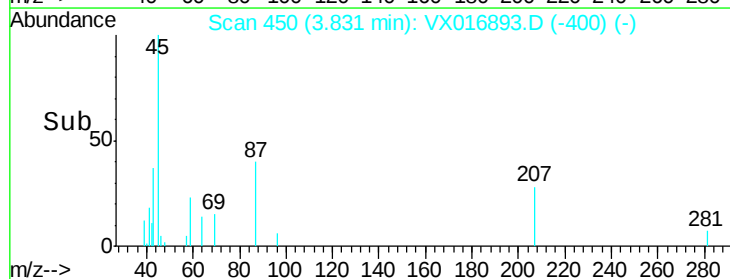
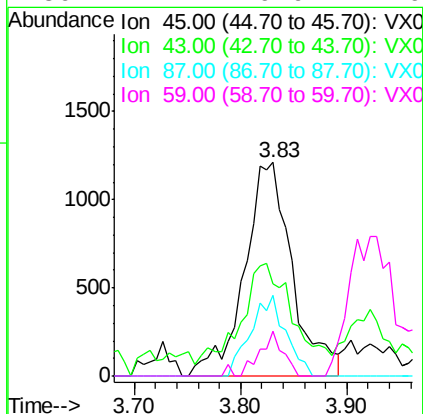
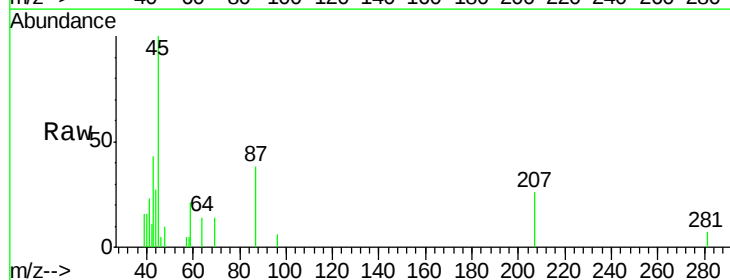
Instrument :
MSVOA_X
ClientSampled :
218

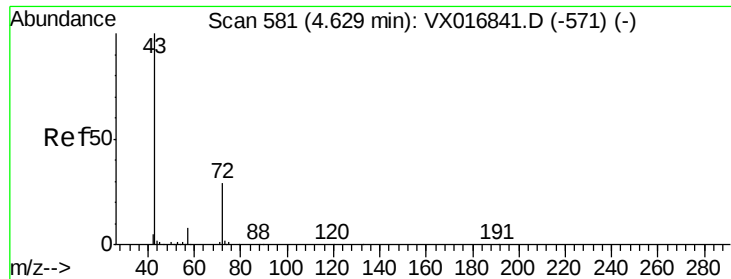
Tot Ion:	84	Resp:	35266
Ion	Ratio	Lower	Upper
84	100		
49	110.4	86.6	129.8
51	35.0	27.1	40.7
86	67.3	53.1	79.7



#22
Diisopropyl ether
Concen: 0.601 ug/l
RT: 3.83 min Scan# 450
Delta R.T. 0.01 min
Lab File: VX016893.D
Acq: 19 Jun 2020 20:24

Tgt Ion:	45	Resp:	3814
Ion	Ratio	Lower	Upper
45	100		
43	31.9	57.0	85.4#
87	37.5	25.2	37.8
59	21.1	9.9	14.9#





#25

2-Butanone

Concen: 226.533 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

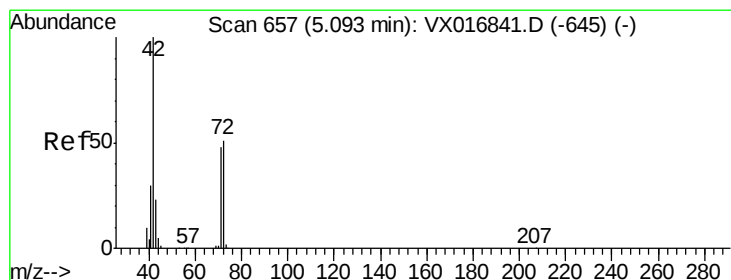
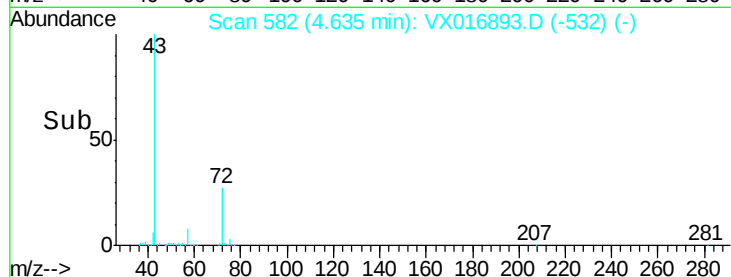
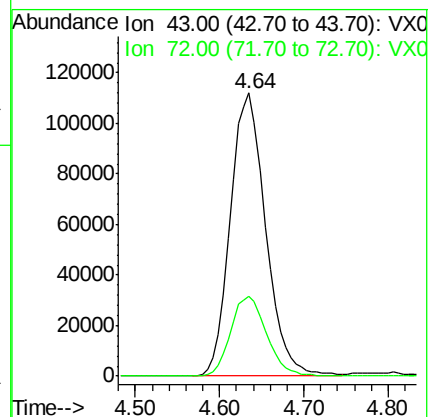
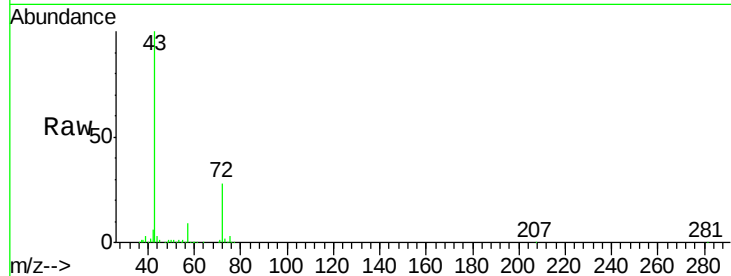
218

Tot Ion: 43 Resp: 318979

Ion Ratio Lower Upper

43 100

72 28.2 23.5 35.3



#29

Tetrahydrofuran

Concen: 3.011 ug/l

RT: 5.09 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

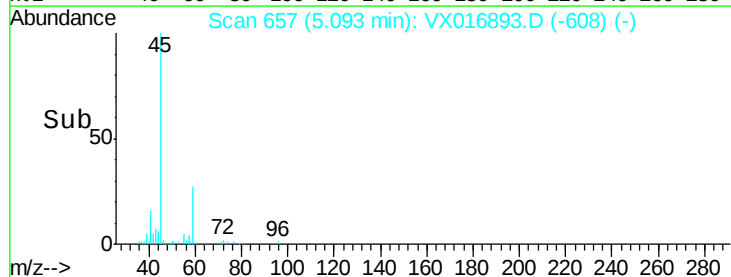
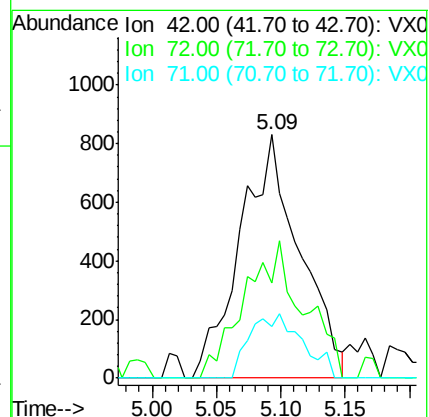
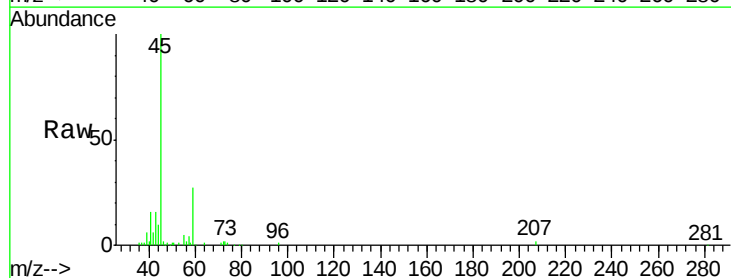
Tgt Ion: 42 Resp: 2670

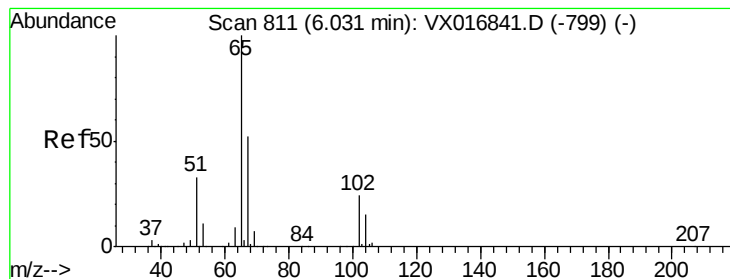
Ion Ratio Lower Upper

42 100

72 55.5 41.1 61.7

71 23.0 38.4 57.6#





#33

1,2-Dichloroethane-d4

Concen: 48.305 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

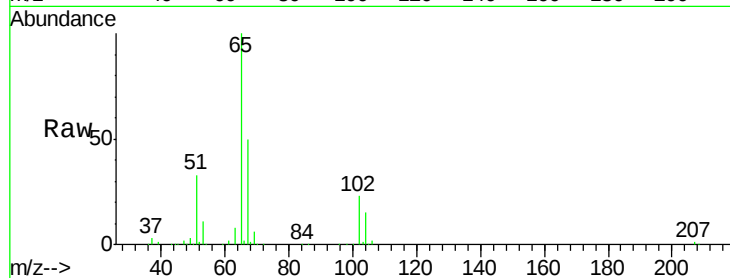
218

Tot Ion: 65 Resp: 136144

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

50000

40000

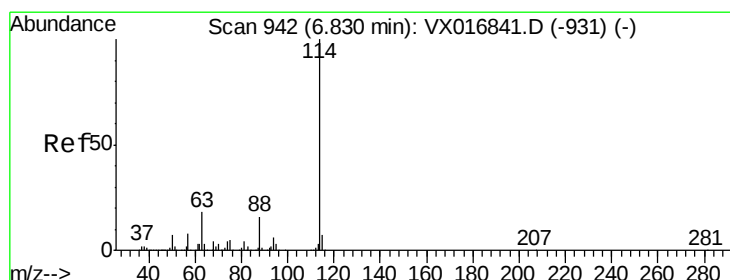
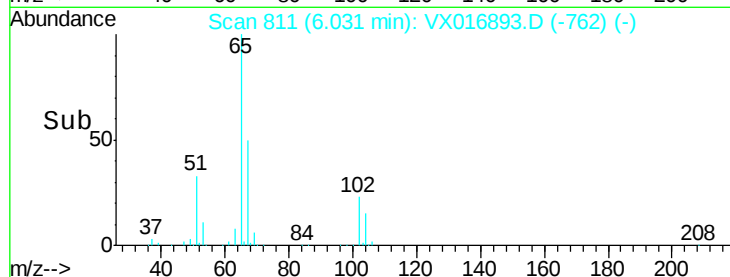
30000

20000

10000

0

Time--> 5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

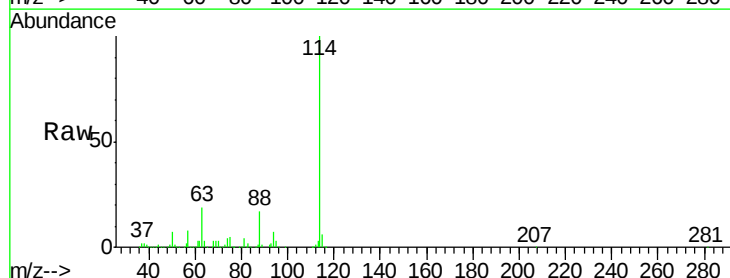
Tgt Ion: 114 Resp: 375311

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.0

88 16.5 0.0 32.0



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

200000

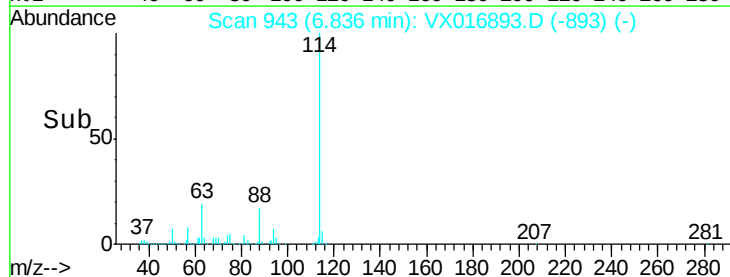
150000

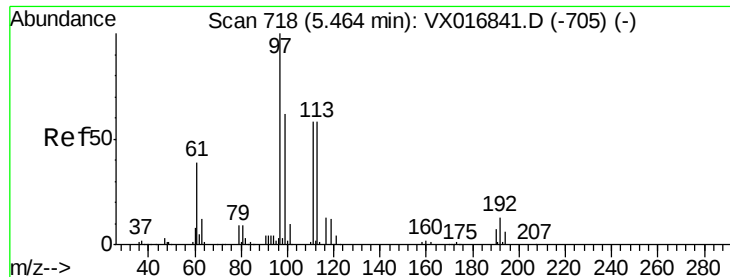
100000

50000

0

Time--> 6.70 6.80 6.90 7.00

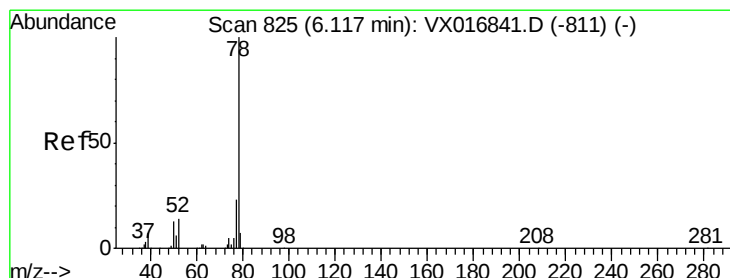
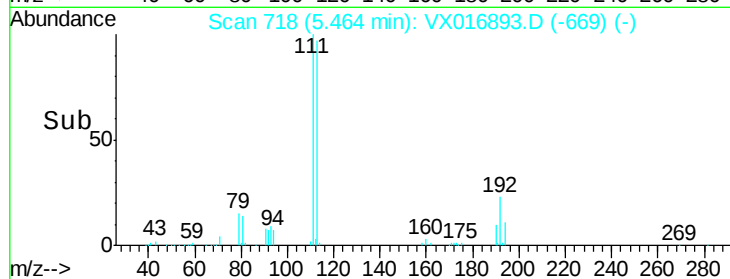
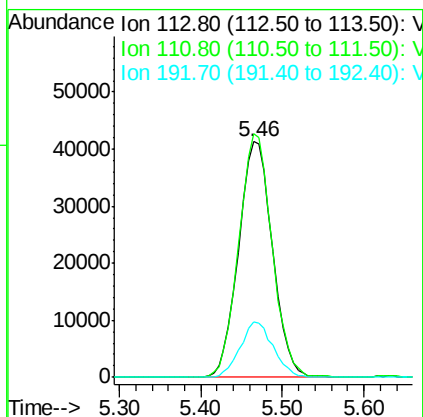
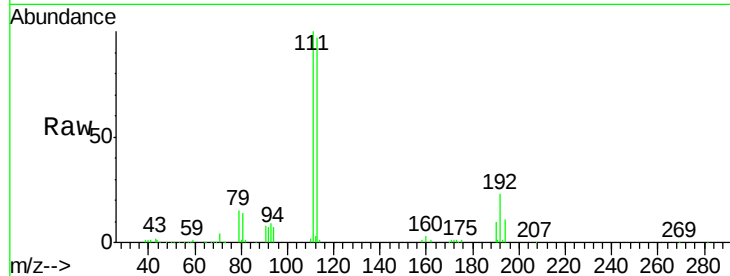




#35
 Dibromofluoromethane
 Concen: 49.826 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX016893.D
 Acq: 19 Jun 2020 20:24

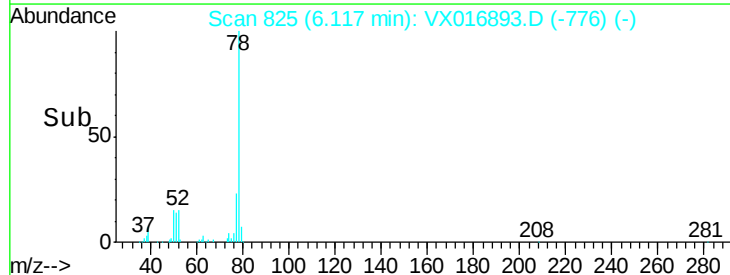
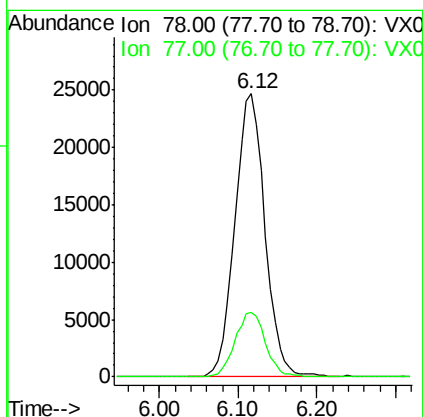
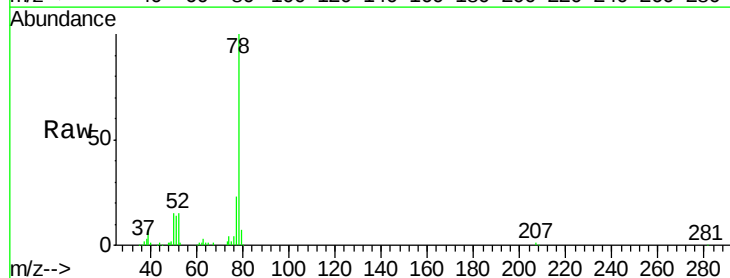
Instrument :
 MSVOA_X
 ClientSampleId :
 218

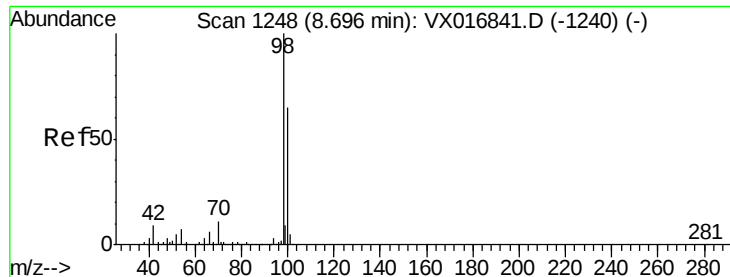
Tot Ion:113 Resp: 119625
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.0 121.4
 192 22.9 18.5 27.7



#40
 Benzene
 Concen: 6.296 ug/l
 RT: 6.12 min Scan# 825
 Delta R.T. -0.00 min
 Lab File: VX016893.D
 Acq: 19 Jun 2020 20:24

Tgt Ion: 78 Resp: 65471
 Ion Ratio Lower Upper
 78 100
 77 22.6 18.6 27.8

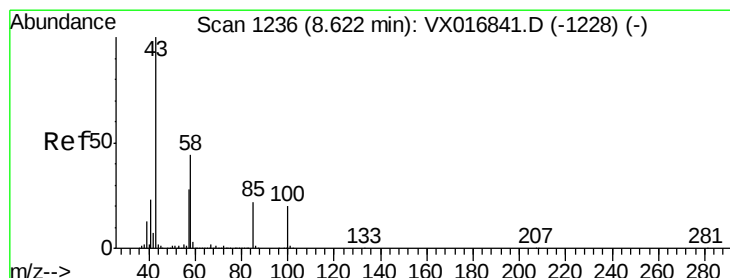
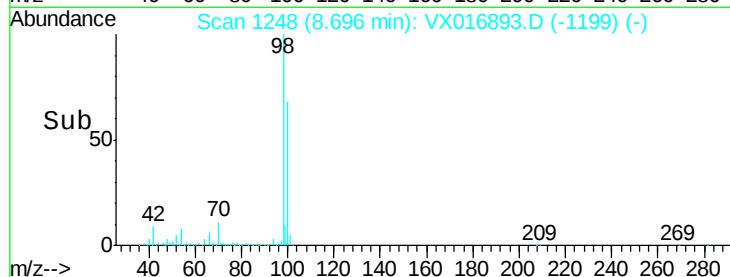
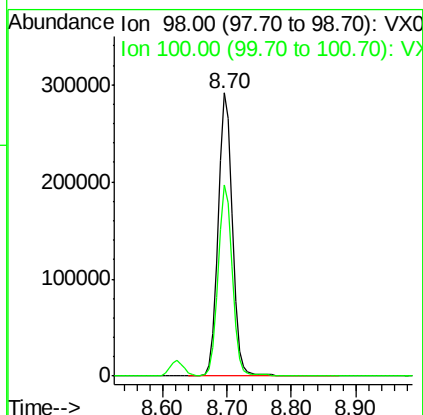
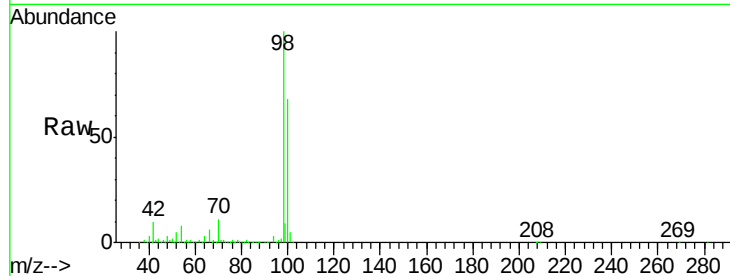




#50
Toluene-d8
Concen: 47.806 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016893.D
Acq: 19 Jun 2020 20:24

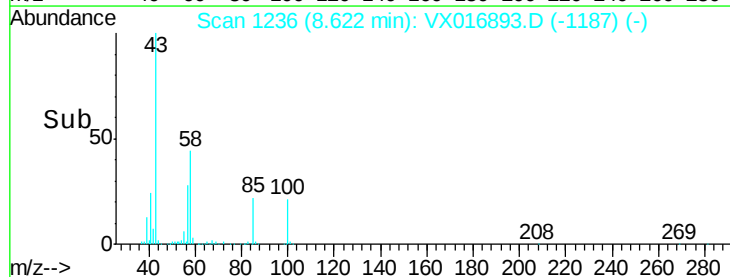
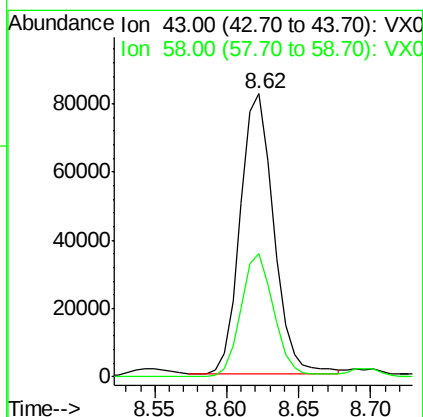
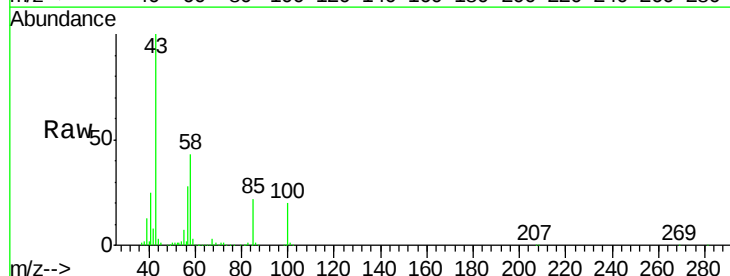
Instrument :
MSVOA_X
ClientSampleId :
218

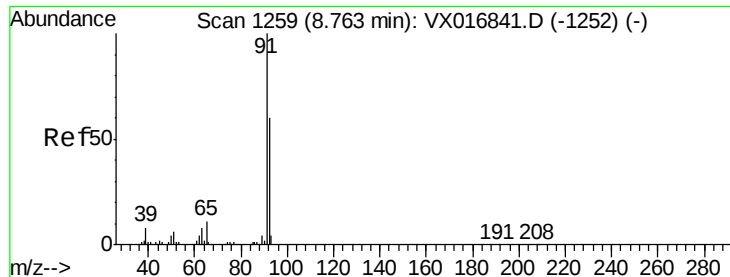
Tot Ion: 98 Resp: 459200
Ion Ratio Lower Upper
98 100
100 67.3 54.0 81.0



#51
4-Methyl-2-Pentanone
Concen: 41.414 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX016893.D
Acq: 19 Jun 2020 20:24

Tgt Ion: 43 Resp: 133185
Ion Ratio Lower Upper
43 100
58 42.9 34.3 51.5





#52

Toluene

Concen: 17.966 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

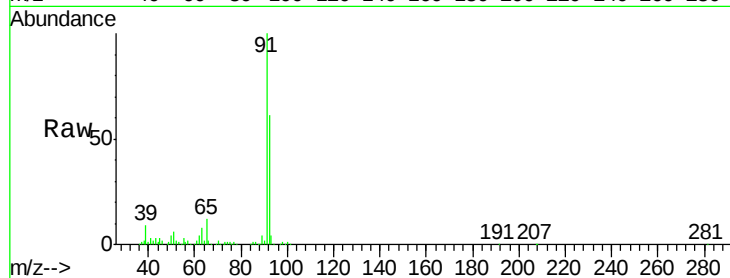
218

Tot Ion: 92 Resp: 123930

Ion Ratio Lower Upper

92 100

91 168.6 134.2 201.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

150000

100000

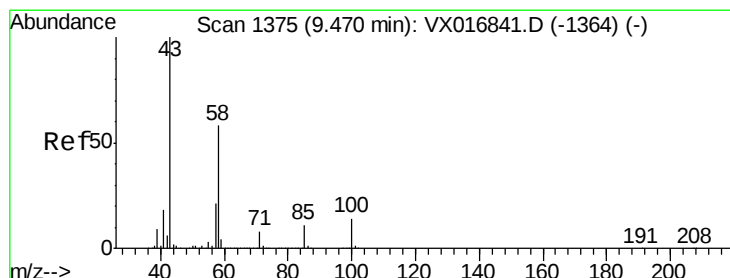
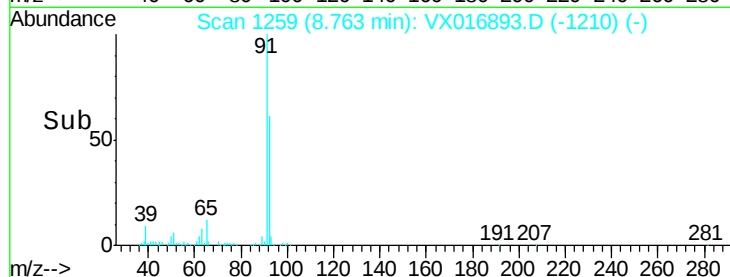
50000

0

8.76

8.70 8.80 8.90 9.00

Time-->



#59

2-Hexanone

Concen: 7.258 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. 0.01 min

Lab File: VX016893.D

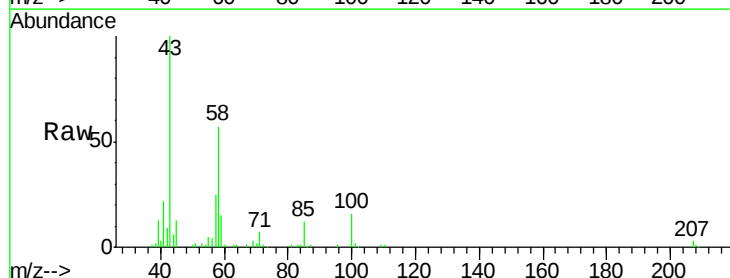
Acq: 19 Jun 2020 20:24

Tgt Ion: 43 Resp: 16903

Ion Ratio Lower Upper

43 100

58 59.1 29.8 89.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

10000

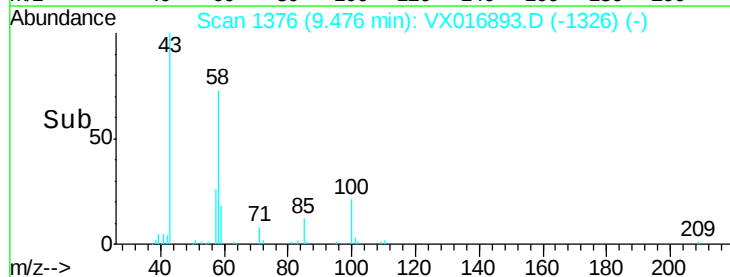
5000

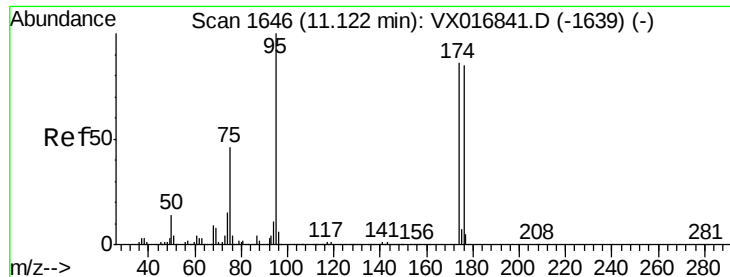
0

9.48

9.45 9.50

Time-->





#62

4-Bromofluorobenzene

Concen: 60.558 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

218

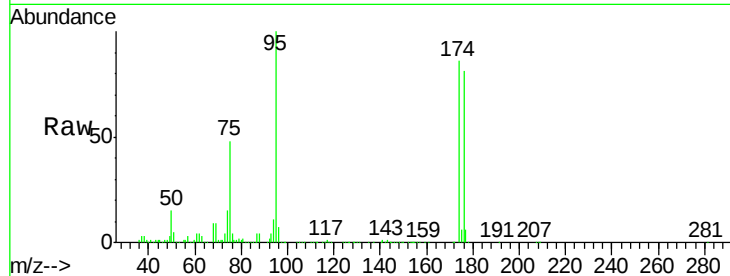
Tot Ion: 95 Resp: 222870

Ion Ratio Lower Upper

95 100

174 86.0 0.0 174.2

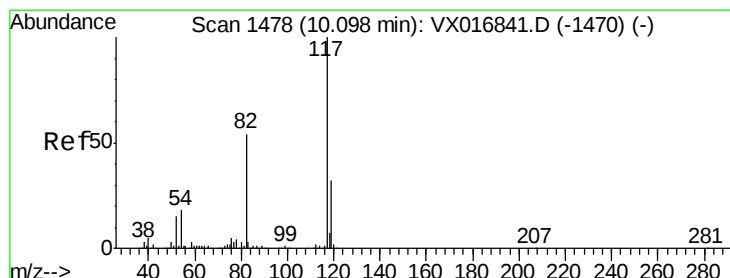
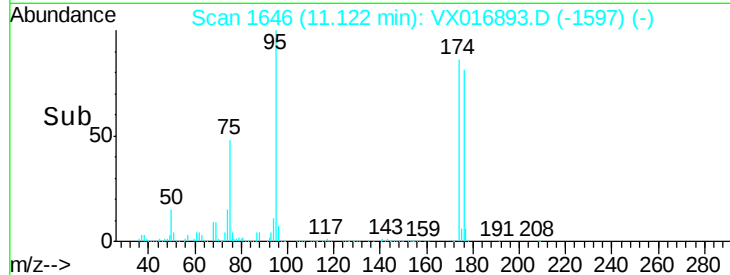
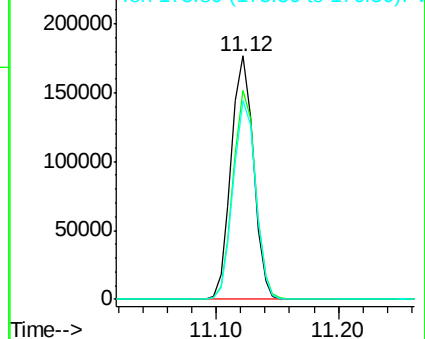
176 81.7 0.0 170.0



Abundance Ion 94.90 (94.60 to 95.60): VX016893.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016893.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016893.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

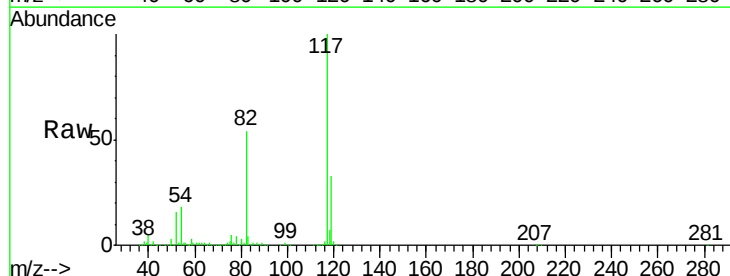
Tgt Ion: 117 Resp: 373843

Ion Ratio Lower Upper

117 100

82 53.8 43.4 65.0

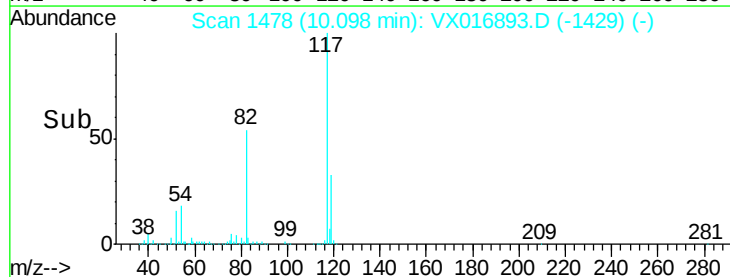
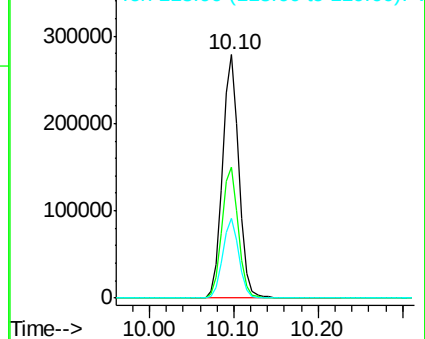
119 32.6 25.7 38.5

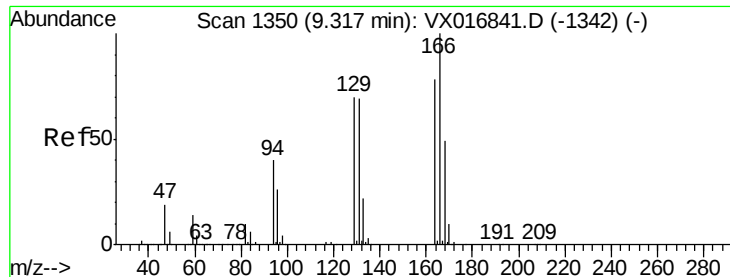


Abundance Ion 116.90 (116.60 to 117.60): VX016893.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016893.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016893.D (-1429) (-)





#64

Tetrachloroethene

Concen: 0.249 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

218

Tot Ion:164 Resp: 863

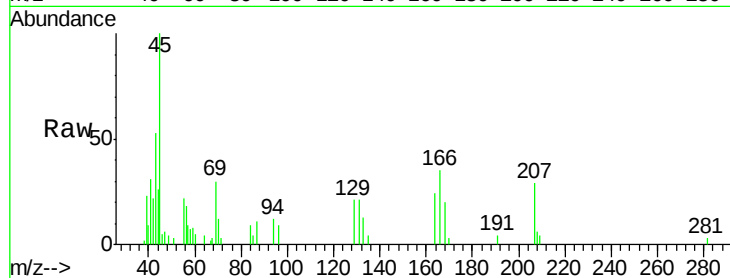
Ion Ratio Lower Upper

164 100

166 145.2 102.6 153.8

129 87.4 72.2 108.2

131 89.5 70.8 106.2

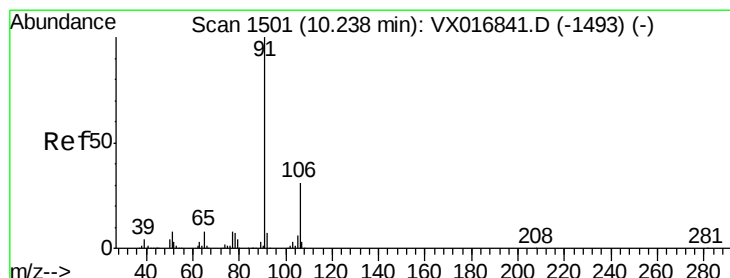
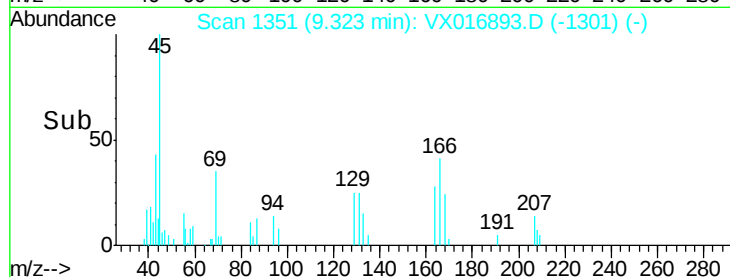
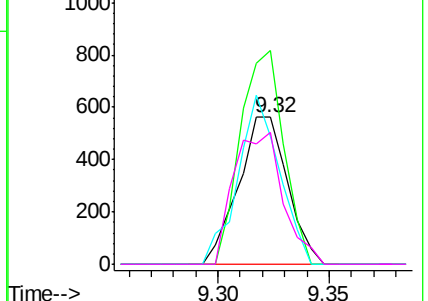


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 1.737 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VX016893.D

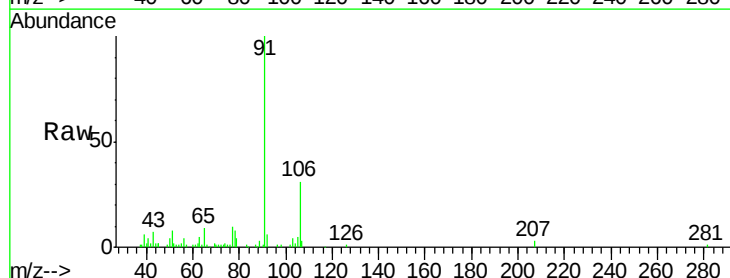
Acq: 19 Jun 2020 20:24

Tgt Ion: 91 Resp: 22183

Ion Ratio Lower Upper

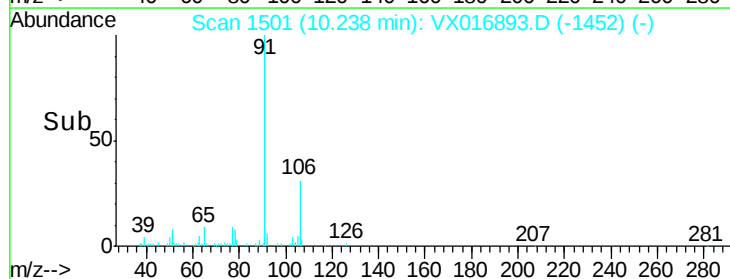
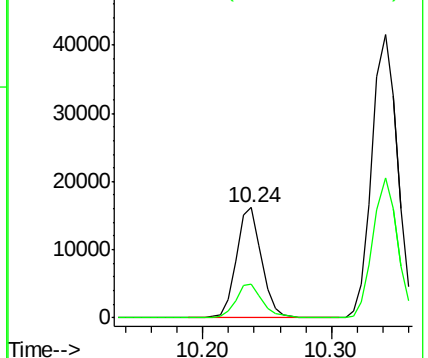
91 100

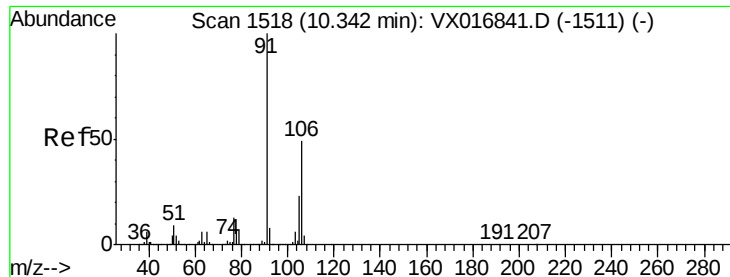
106 31.3 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

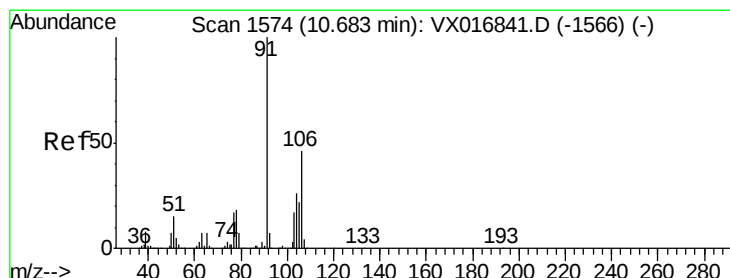
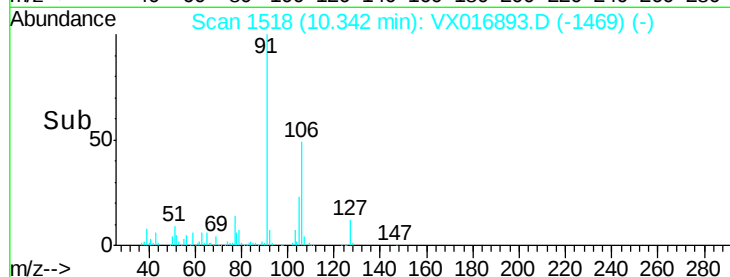
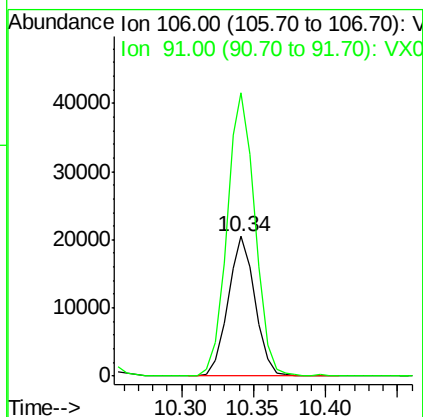
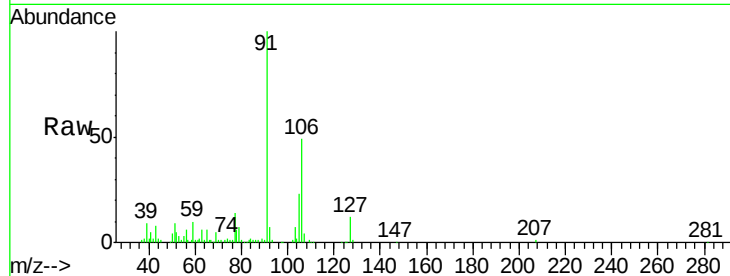




#68
m/p-Xylenes
Concen: 5.441 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX016893.D
Acq: 19 Jun 2020 20:24

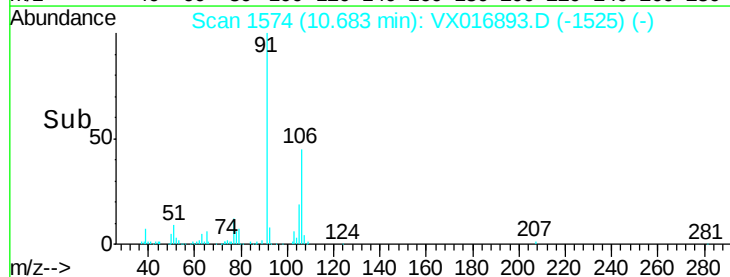
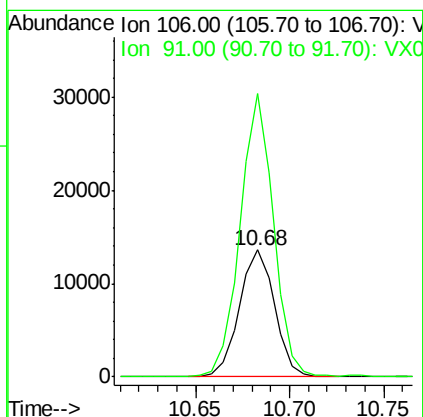
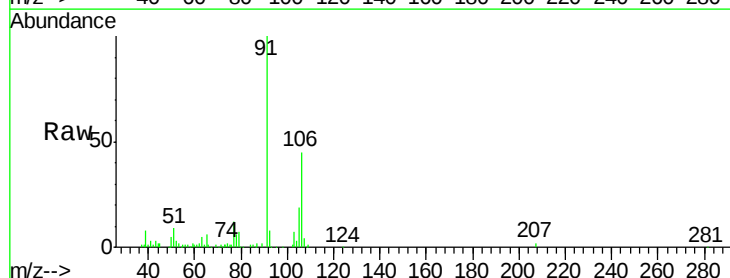
Instrument :
MSVOA_X
ClientSampleId :
218

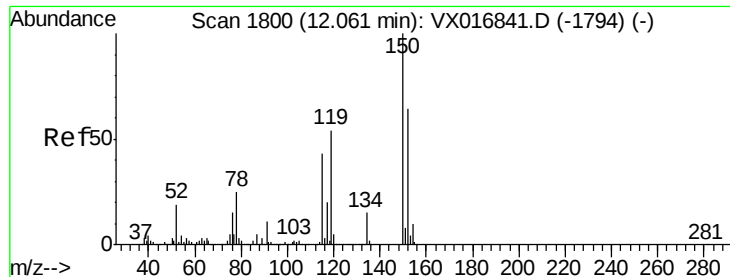
Tot Ion:106 Resp: 27044
Ion Ratio Lower Upper
106 100
91 209.1 161.5 242.3



#69
o-Xylene
Concen: 3.827 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX016893.D
Acq: 19 Jun 2020 20:24

Tgt Ion:106 Resp: 17588
Ion Ratio Lower Upper
106 100
91 211.7 107.9 323.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

218

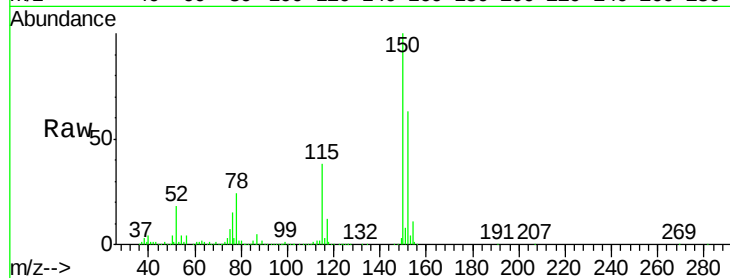
Tot Ion:152 Resp: 229473

Ion Ratio Lower Upper

152 100

115 57.3 40.9 122.8

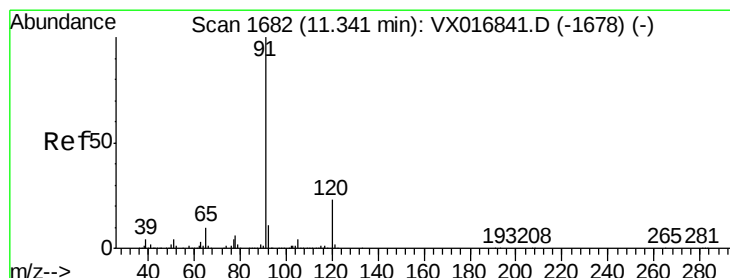
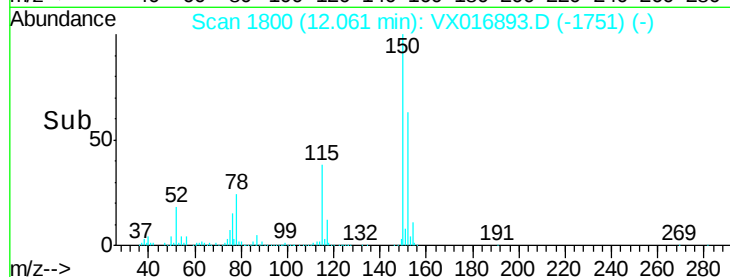
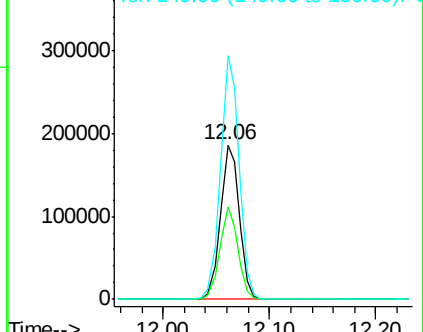
150 156.3 0.0 344.2



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



#78

n-propylbenzene

Concen: 0.401 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX016893.D

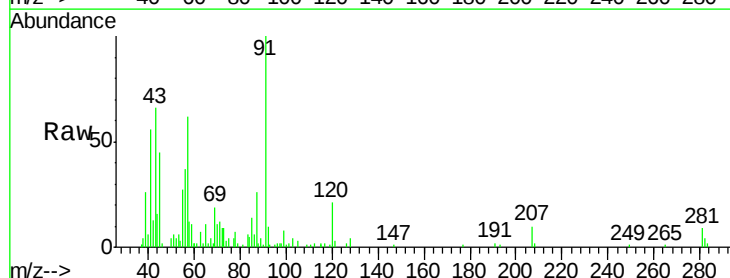
Acq: 19 Jun 2020 20:24

Tgt Ion: 91 Resp: 6606

Ion Ratio Lower Upper

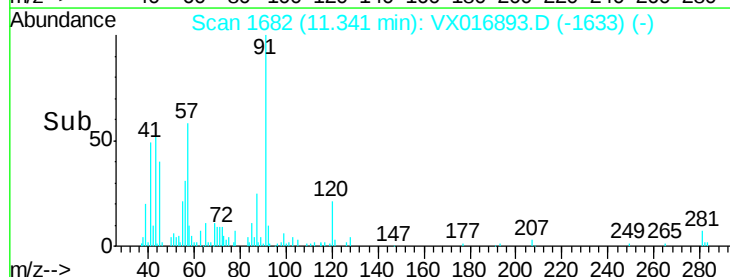
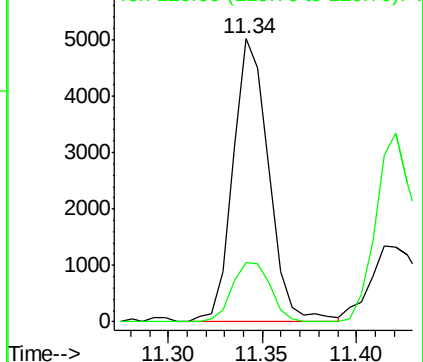
91 100

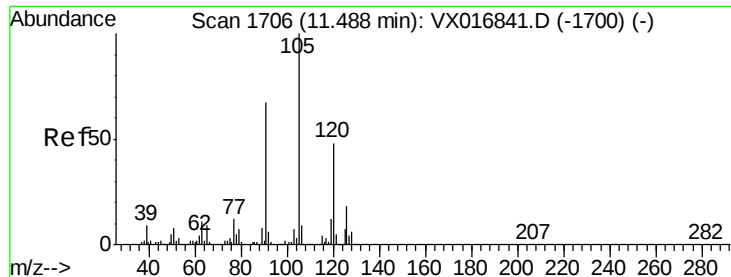
120 22.4 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.561 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

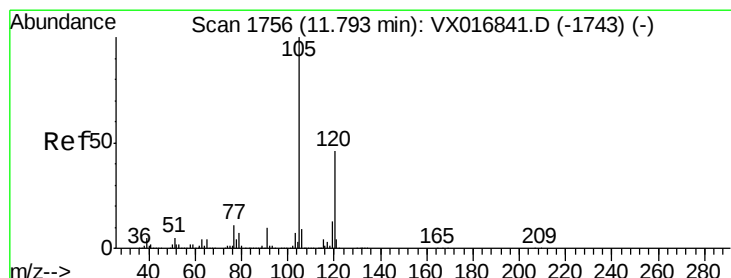
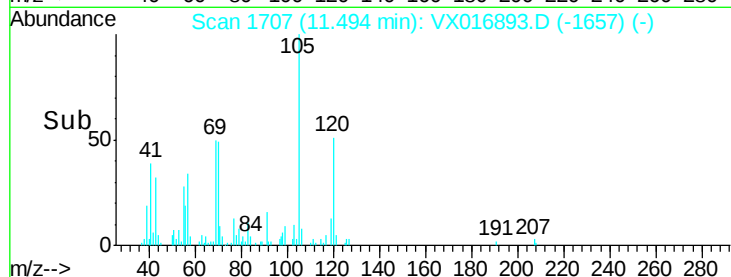
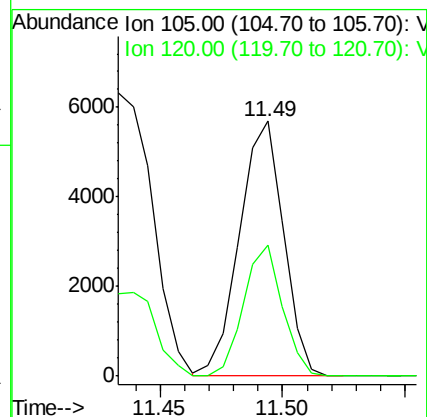
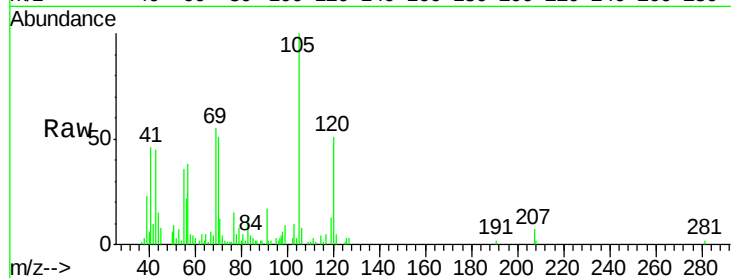
218

Tot Ion:105 Resp: 7147

Ion Ratio Lower Upper

105 100

120 45.3 24.6 74.0



#84

1,2,4-Trimethylbenzene

Concen: 2.300 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016893.D

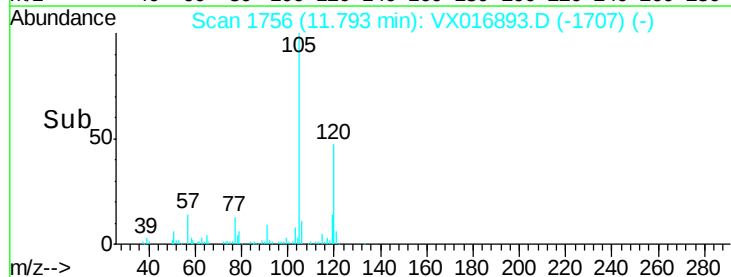
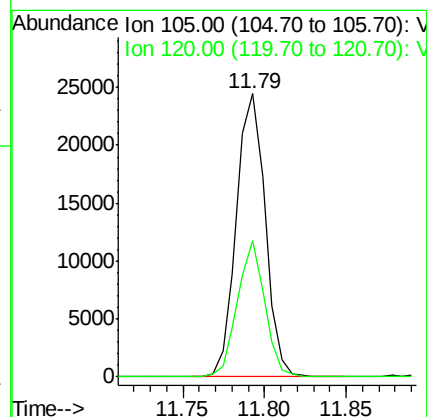
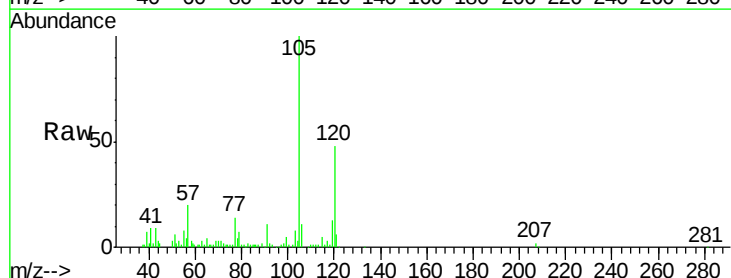
Acq: 19 Jun 2020 20:24

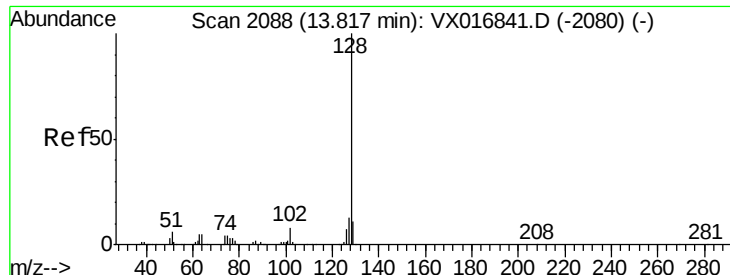
Tgt Ion:105 Resp: 30203

Ion Ratio Lower Upper

105 100

120 45.0 22.3 66.9





#95

Naphthalene

Concen: 2.924 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016893.D

Acq: 19 Jun 2020 20:24

Instrument :

MSVOA_X

ClientSampleId :

218

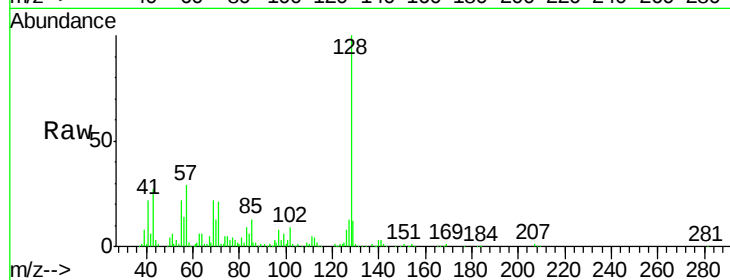
Tot Ion:128 Resp: 40972

Ion Ratio Lower Upper

128 100

127 14.2 10.4 15.6

129 13.9 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

