

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071620\
 Data File : VX017403.D
 Acq On : 16 Jul 2020 19:53
 Operator : JC/SP
 Sample : L3334-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-4

Quant Time: Jul 17 02:30:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	256022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	443318	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	474555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	262532	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	174134	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
35) Dibromofluoromethane	5.47	113	151823	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
50) Toluene-d8	8.70	98	563352	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
62) 4-Bromofluorobenzene	11.12	95	229419	53.62	ug/l	0.00
Spiked Amount			Recovery	=	107.24%	

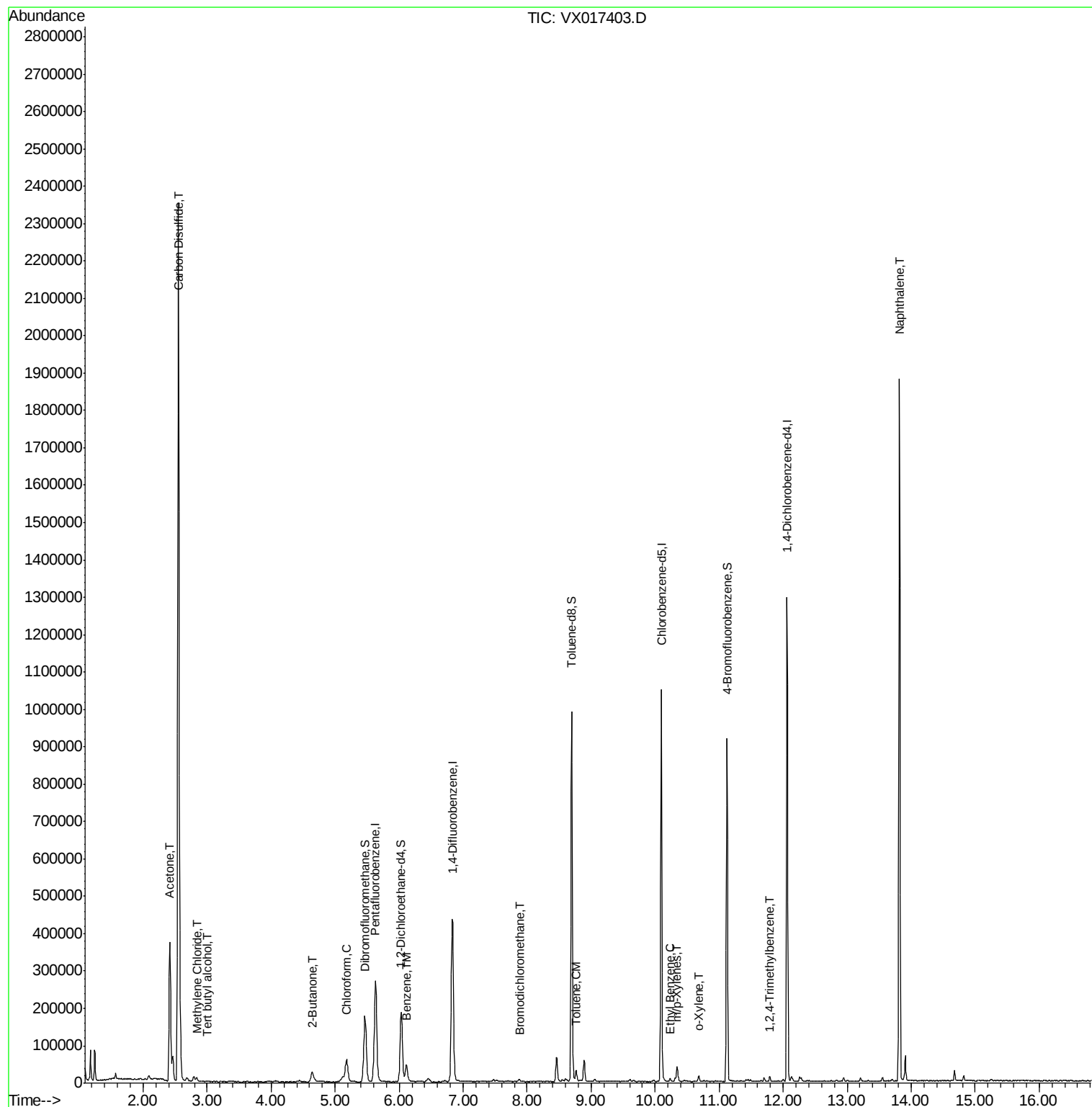
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	1903	3.515	ug/l #	72
16) Acetone	2.42	43	392808	342.655	ug/l	97
17) Carbon Disulfide	2.55	76	2916955	429.173	ug/l	100
20) Methylene Chloride	2.84	84	4658	1.665	ug/l	97
25) 2-Butanone	4.64	43	38959	21.397	ug/l	93
30) Chloroform	5.18	83	70462	14.491	ug/l	99
40) Benzene	6.11	78	53508	4.566	ug/l	93
47) Bromodichloromethane	7.87	83	3908	0.864	ug/l #	94
52) Toluene	8.77	92	9747	1.296	ug/l	98
67) Ethyl Benzene	10.23	91	4546	0.283	ug/l #	83
68) m/p-Xylenes	10.34	106	6994	1.145	ug/l	96
69) o-Xylene	10.68	106	3501	0.600	ug/l	94
84) 1,2,4-Trimethylbenzene	11.79	105	5340	0.378	ug/l	92
95) Naphthalene	13.82	128	1052029	65.414	ug/l	100

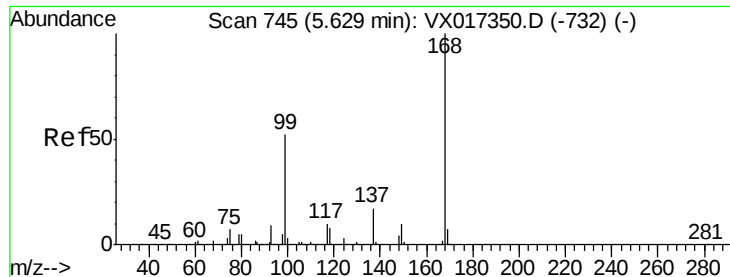
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampled :

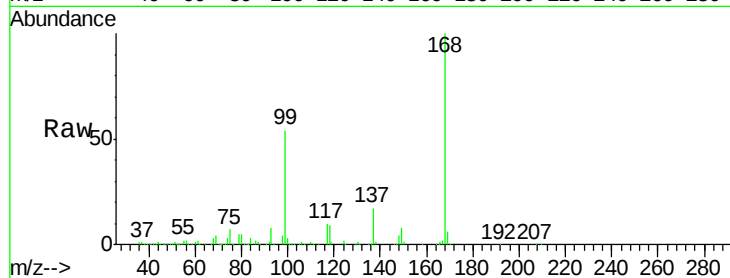
I-LGC-4

Tot Ion:168 Resp: 256022

Ion Ratio Lower Upper

168 100

99 53.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

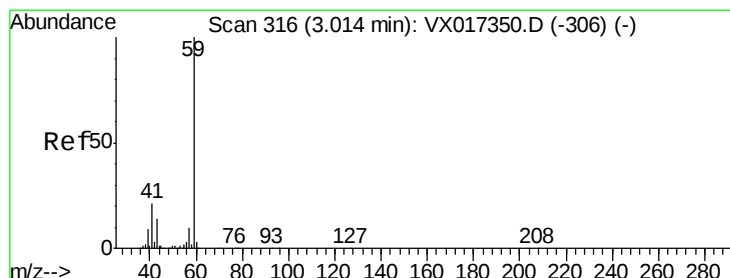
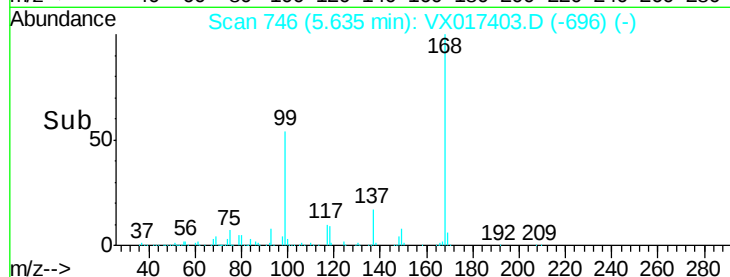
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.515 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017403.D

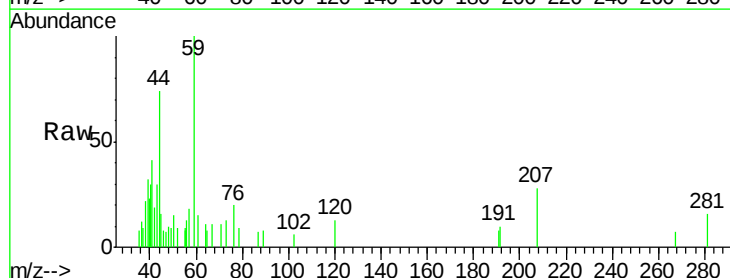
Acq: 16 Jul 2020 19:53

Tgt Ion: 59 Resp: 1903

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

3.01

800

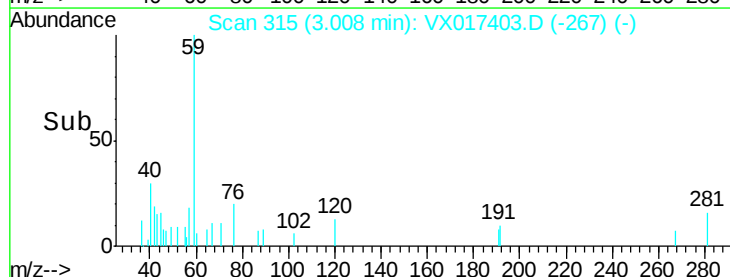
600

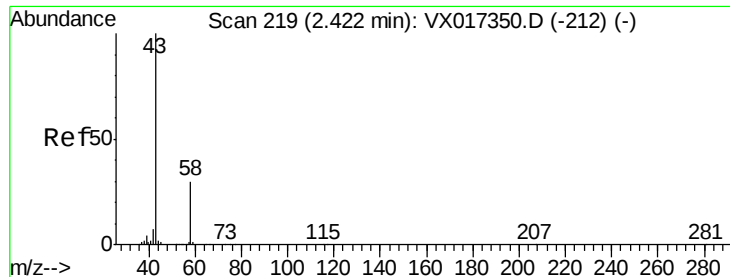
400

200

0

Time-->





#16

Acetone

Concen: 342.655 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampled :

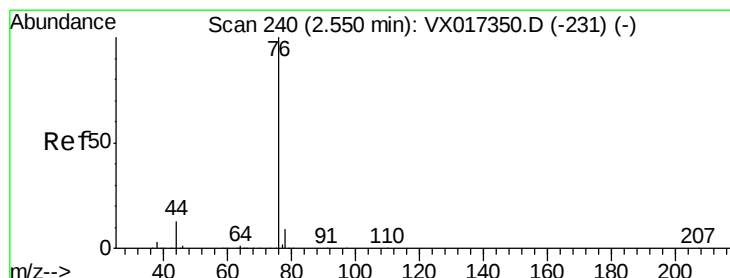
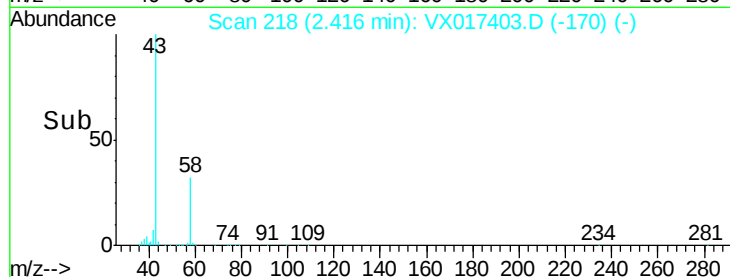
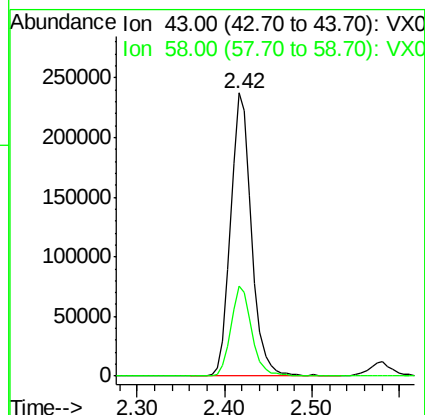
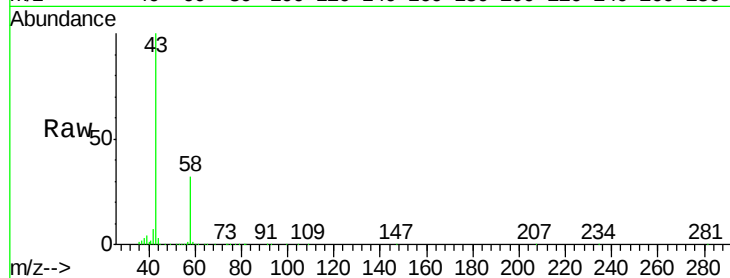
I-LGC-4

Tot Ion: 43 Resp: 392808

Ion Ratio Lower Upper

43 100

58 31.8 24.2 36.2



#17

Carbon Disulfide

Concen: 429.173 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017403.D

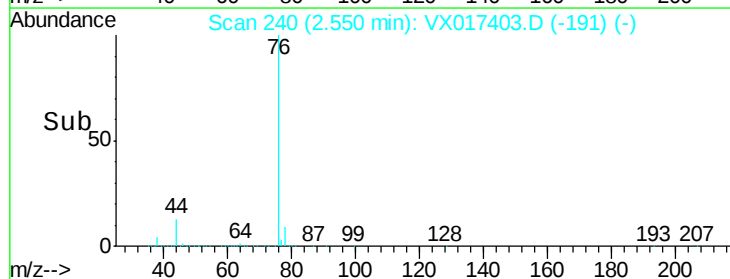
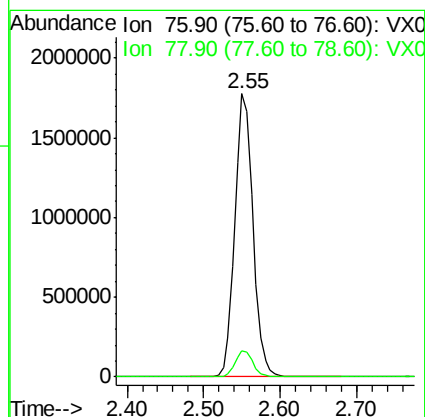
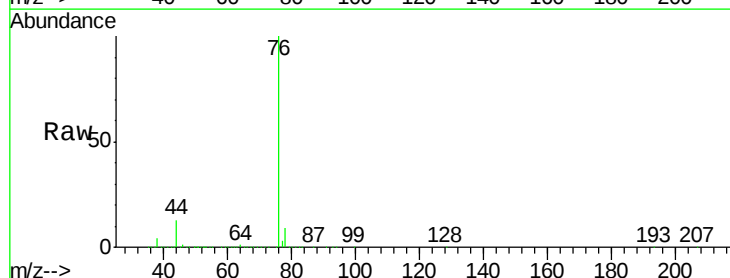
Acq: 16 Jul 2020 19:53

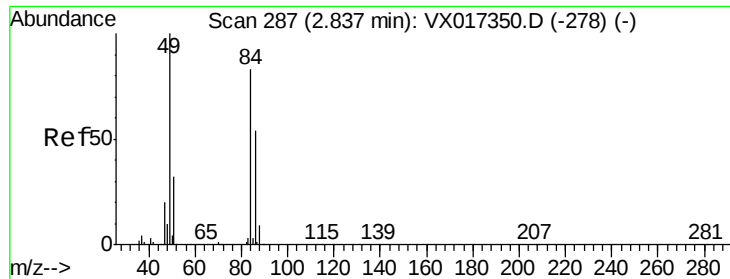
Tgt Ion: 76 Resp: 2916955

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

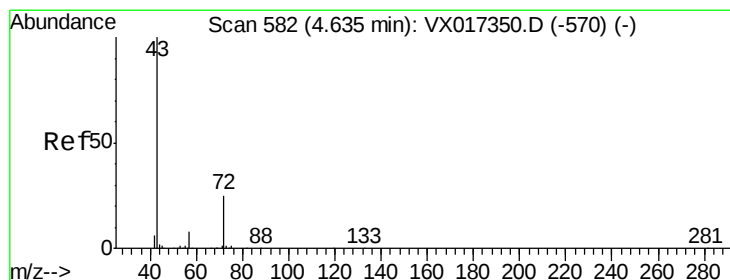
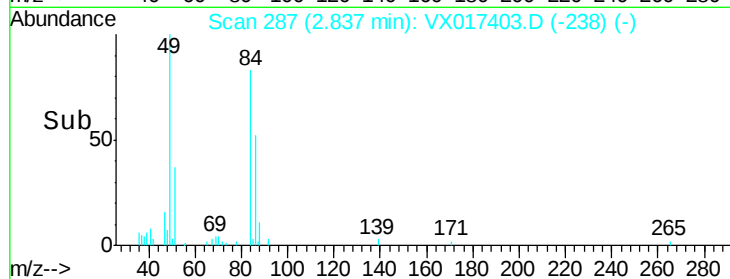
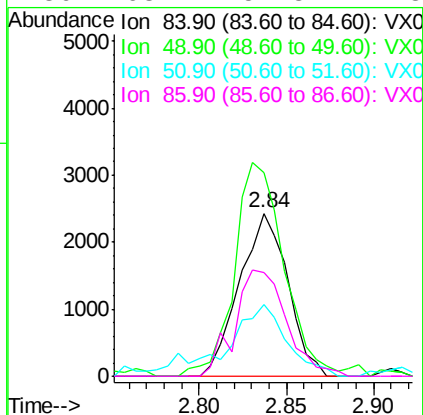
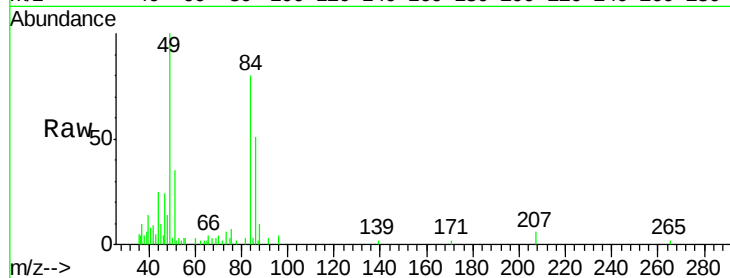




#20
Methvlene Chloride
Concen: 1.665 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017403.D
Acq: 16 Jul 2020 19:53

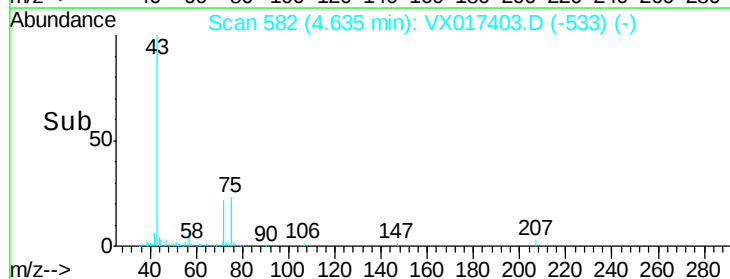
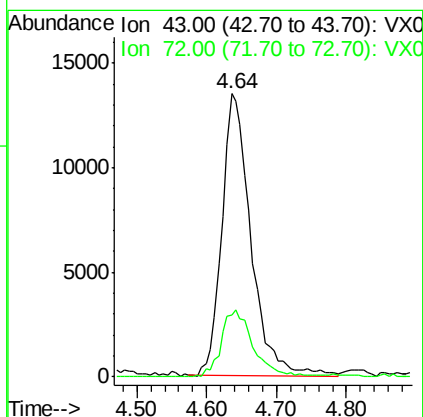
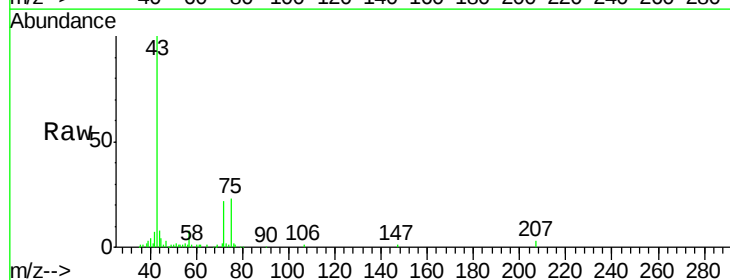
Instrument :
MSVOA_X
ClientSampleId :
I-LGC-4

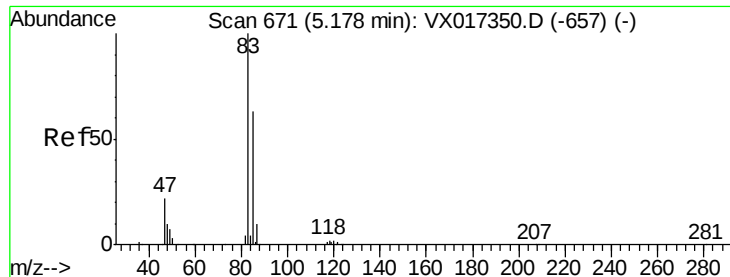
Tot Ion:	84	Resp:	4658
Ion	Ratio	Lower	Upper
84	100		
49	121.7	95.8	143.8
51	44.3	31.0	46.4
86	63.4	51.8	77.8



#25
2-Butanone
Concen: 21.397 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX017403.D
Acq: 16 Jul 2020 19:53

Tgt Ion:	43	Resp:	38959
Ion	Ratio	Lower	Upper
43	100		
72	22.1	20.4	30.6

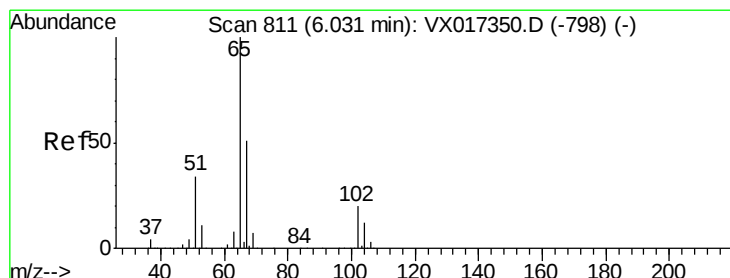
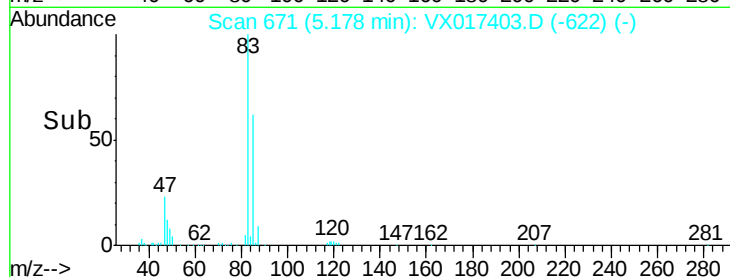
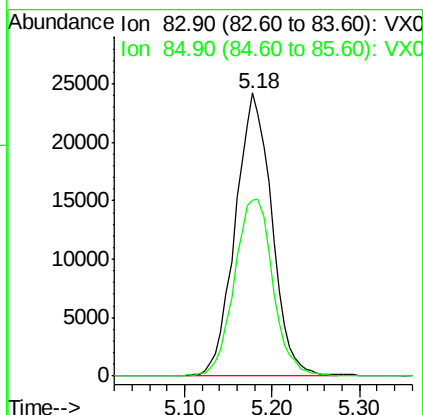
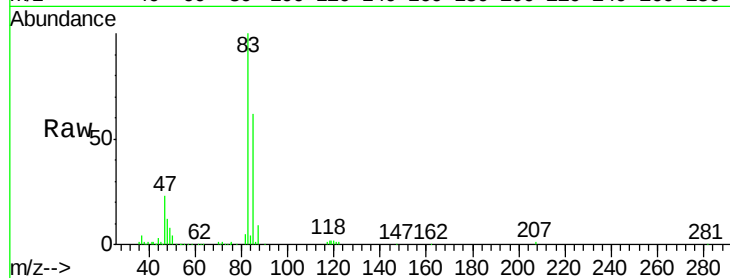




#30
Chloroform
Concen: 14.491 ug/l
RT: 5.18 min Scan# 671
Delta R.T. 0.00 min
Lab File: VX017403.D
Acq: 16 Jul 2020 19:53

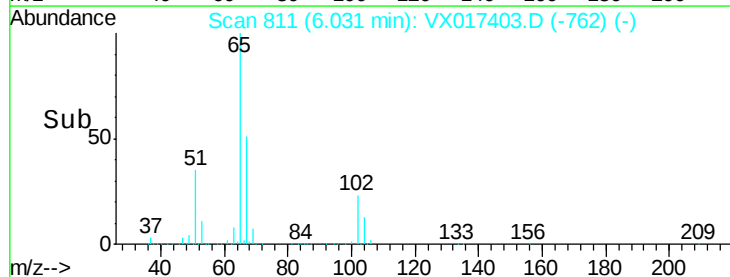
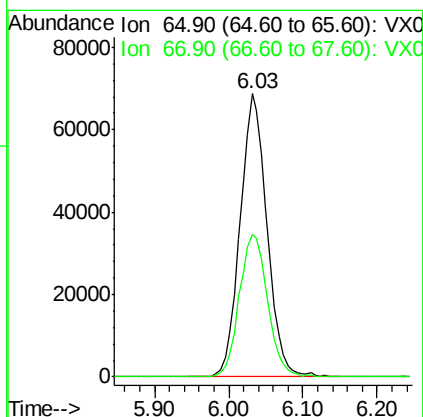
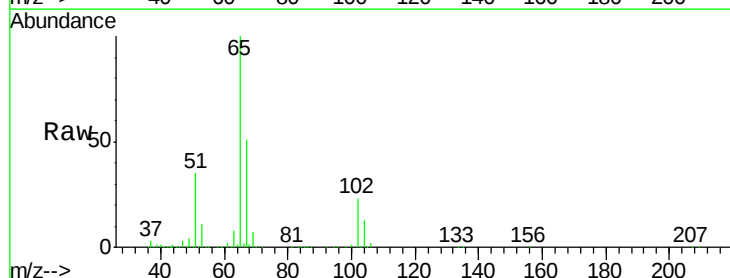
Instrument :
MSVOA_X
ClientSampled :
I-LGC-4

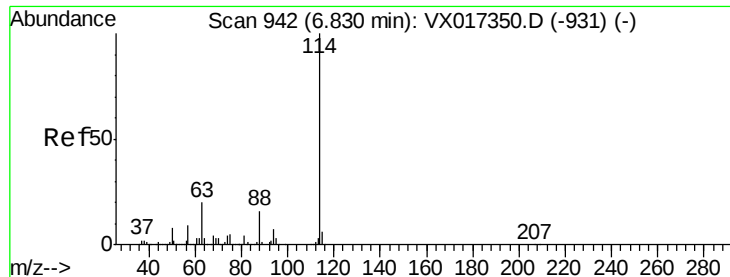
Tot Ion: 83 Resp: 70462
Ion Ratio Lower Upper
83 100
85 62.1 50.2 75.4



#33
1,2-Dichloroethane-d4
Concen: 54.192 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX017403.D
Acq: 16 Jul 2020 19:53

Tgt Ion: 65 Resp: 174134
Ion Ratio Lower Upper
65 100
67 53.1 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-4

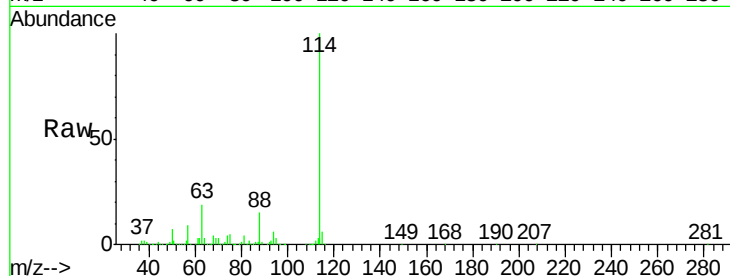
Tot Ion:114 Resp: 443318

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 14.8 0.0 32.8



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

250000

200000

150000

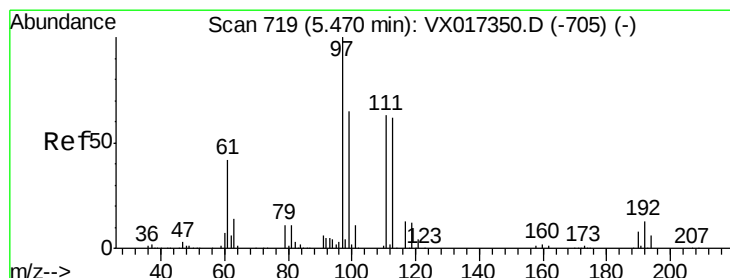
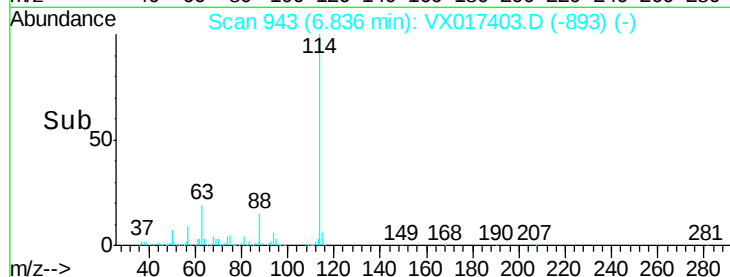
100000

50000

0

6.70 6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 50.840 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

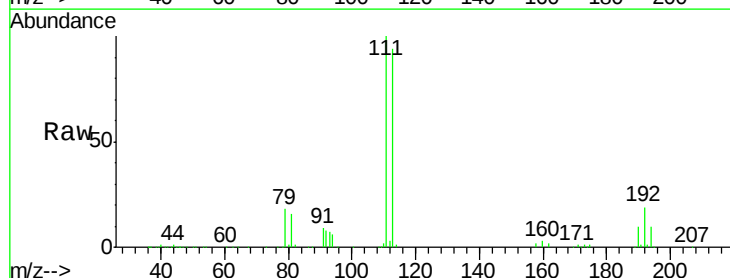
Tgt Ion:113 Resp: 151823

Ion Ratio Lower Upper

113 100

111 105.1 82.4 123.6

192 21.0 17.2 25.8



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

60000

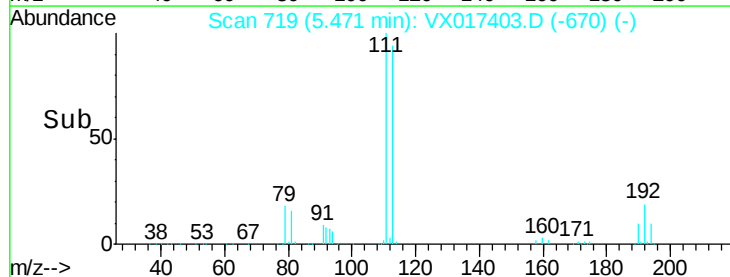
40000

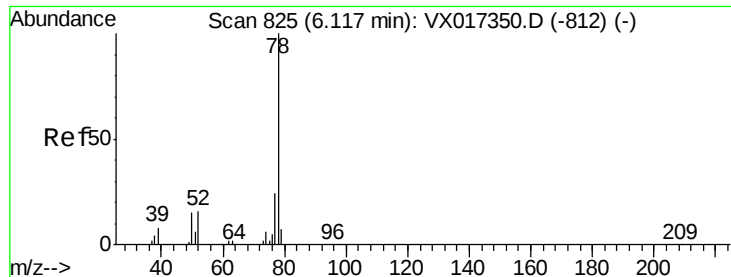
20000

0

5.40 5.50

Time-->





#40

Benzene

Concen: 4.566 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.01 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampled :

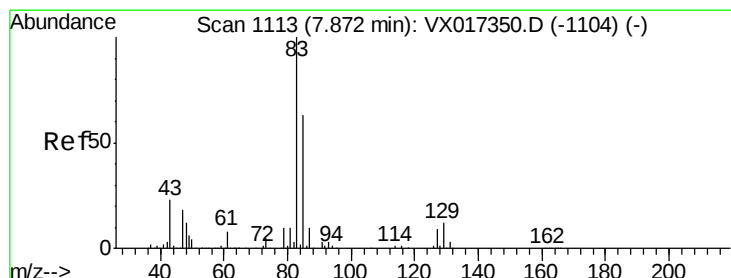
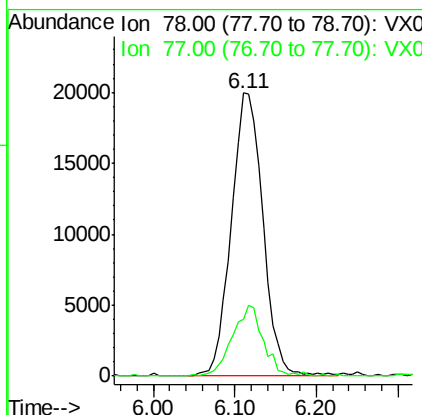
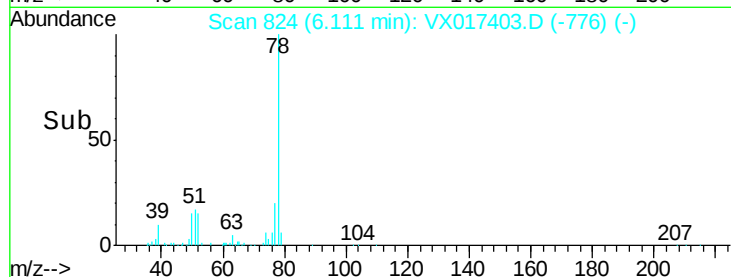
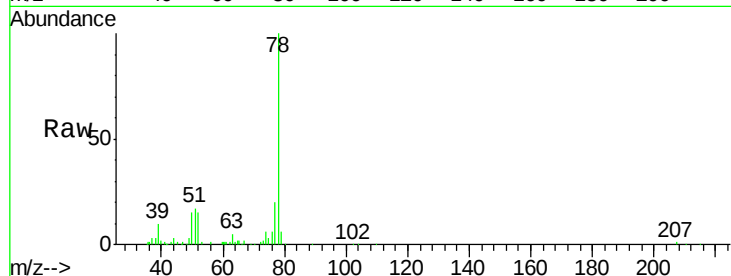
I-LGC-4

Tot Ion: 78 Resp: 53508

Ion Ratio Lower Upper

78 100

77 19.9 18.9 28.3



#47

Bromodichloromethane

Concen: 0.864 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

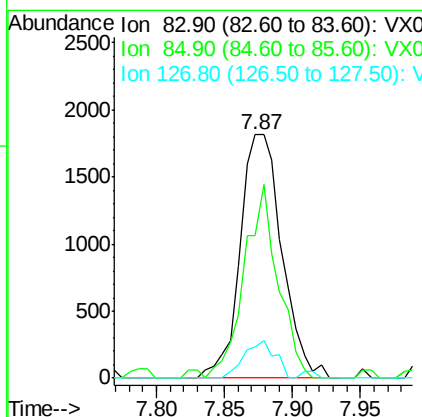
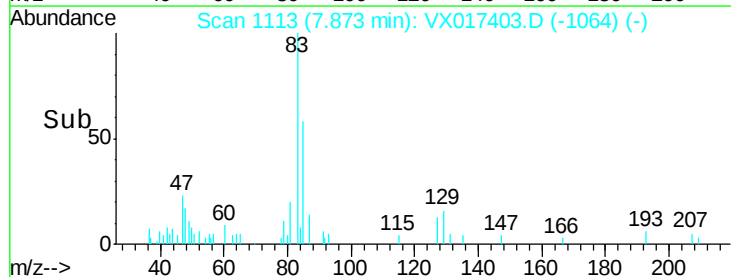
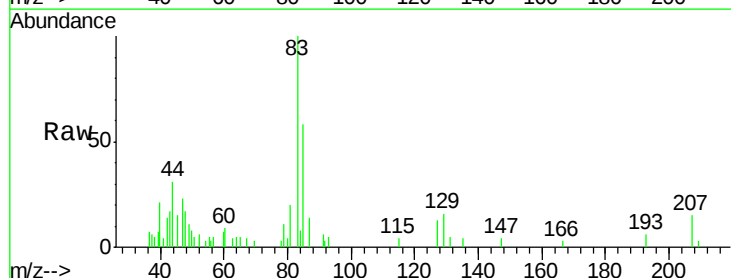
Tgt Ion: 83 Resp: 3908

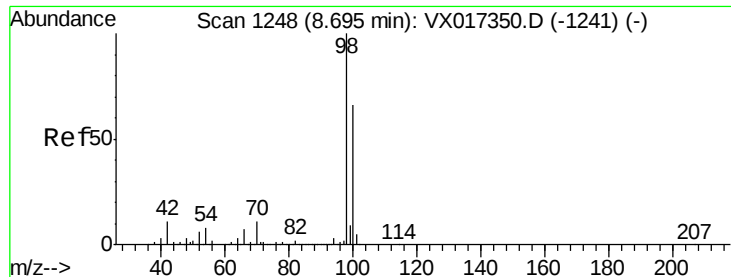
Ion Ratio Lower Upper

83 100

85 58.3 50.2 75.4

127 13.0 7.1 10.7#





#50

Toluene-d8

Concen: 52.298 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

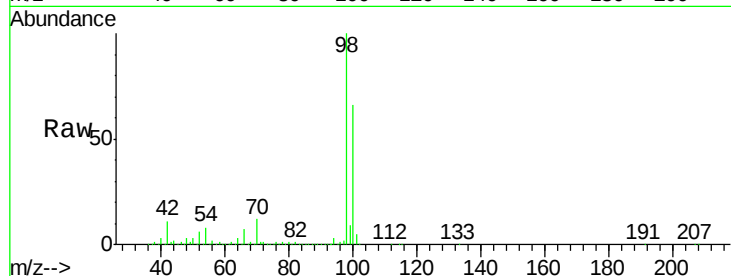
I-LGC-4

Tot Ion: 98 Resp: 563352

Ion Ratio Lower Upper

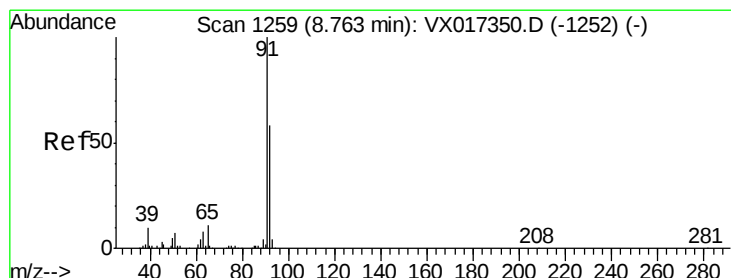
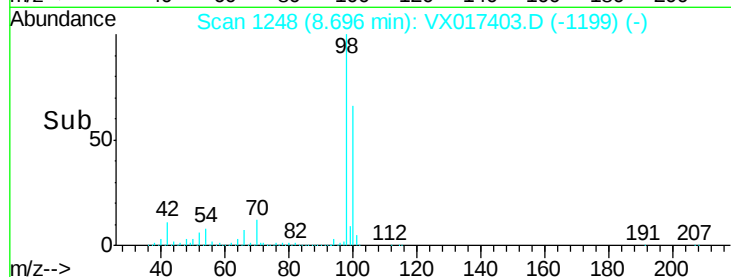
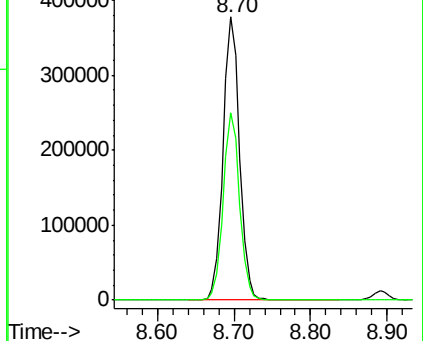
98 100

100 65.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 1.296 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017403.D

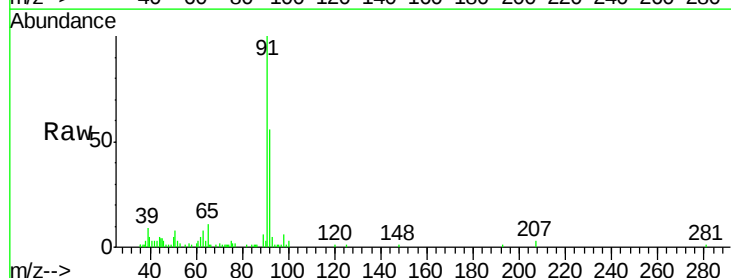
Acq: 16 Jul 2020 19:53

Tgt Ion: 92 Resp: 9747

Ion Ratio Lower Upper

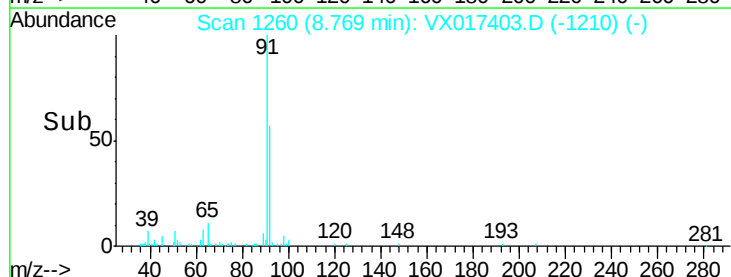
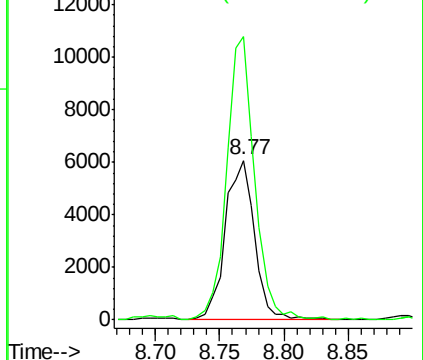
92 100

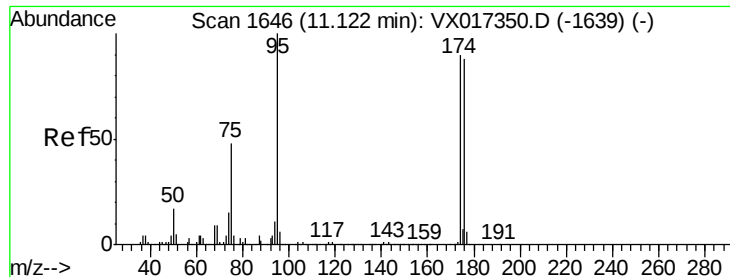
91 168.3 136.7 205.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.618 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-4

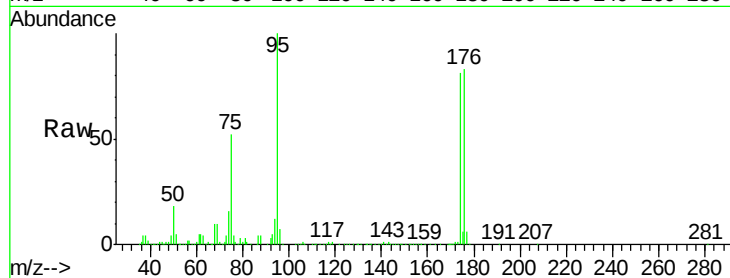
Tot Ion: 95 Resp: 229419

Ion Ratio Lower Upper

95 100

174 83.2 0.0 175.8

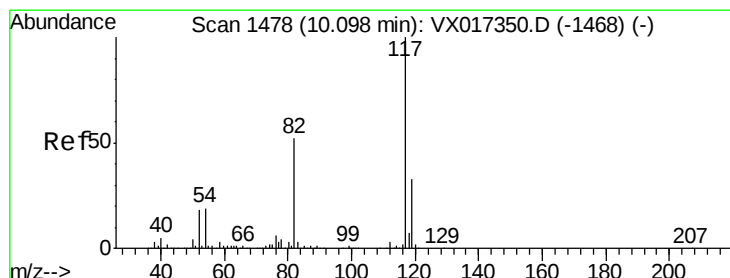
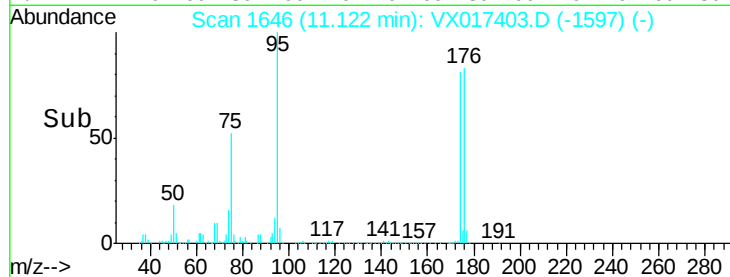
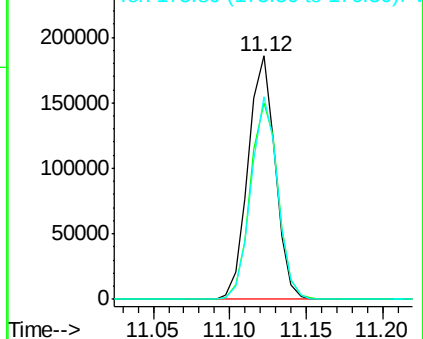
176 81.7 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX017350.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017350.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017350.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

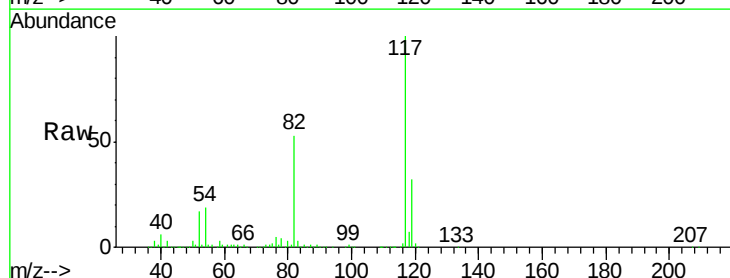
Tgt Ion: 117 Resp: 474555

Ion Ratio Lower Upper

117 100

82 52.7 42.0 63.0

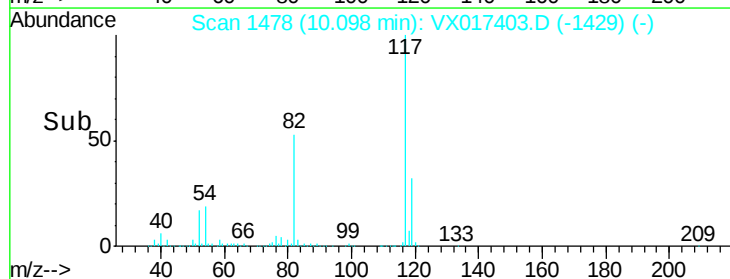
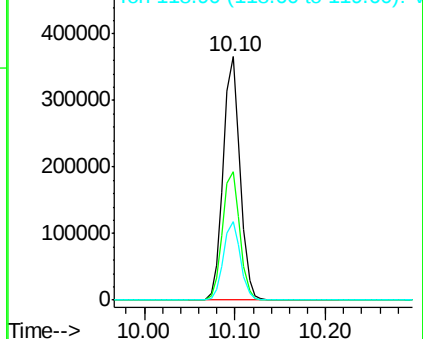
119 32.0 26.3 39.5

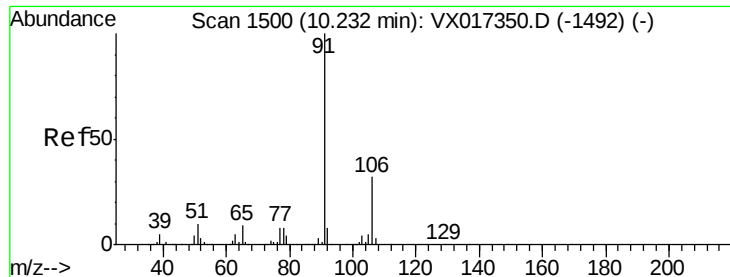


Abundance Ion 116.90 (116.60 to 117.60): VX017350.D (-1468) (-)

Ion 82.00 (81.70 to 82.70): VX017350.D (-1468) (-)

Ion 118.90 (118.60 to 119.60): VX017350.D (-1468) (-)





#67

Ethyl Benzene

Concen: 0.283 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX017403.D

Acq: 16 Jul 2020 19:53

Instrument :

MSVOA_X

ClientSampled :

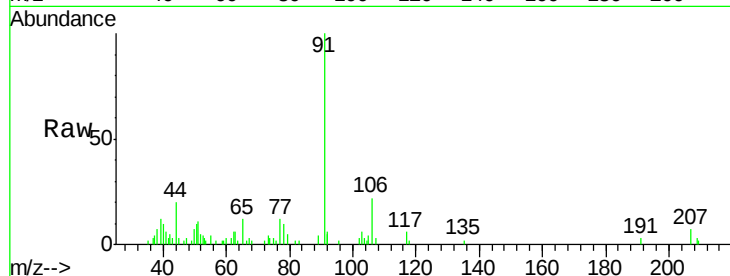
I-LGC-4

Tot Ion: 91 Resp: 4546

Ion Ratio Lower Upper

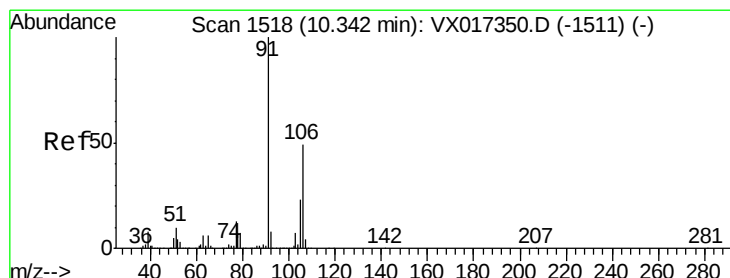
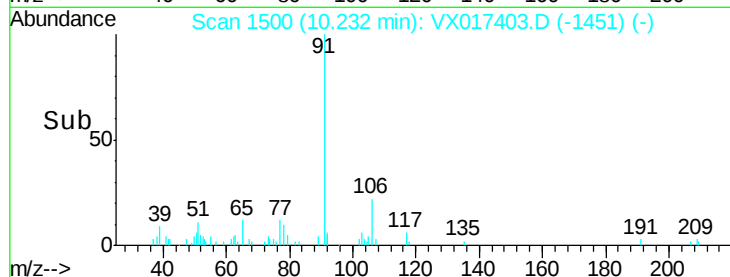
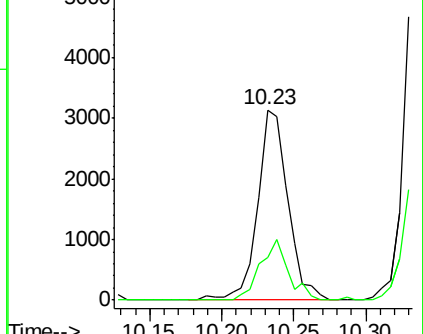
91 100

106 22.5 25.7 38.5#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 1.145 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX017403.D

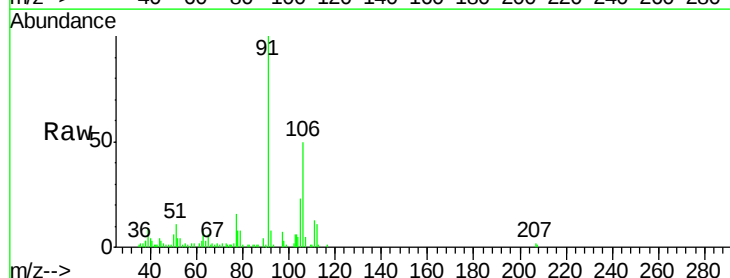
Acq: 16 Jul 2020 19:53

Tgt Ion: 106 Resp: 6994

Ion Ratio Lower Upper

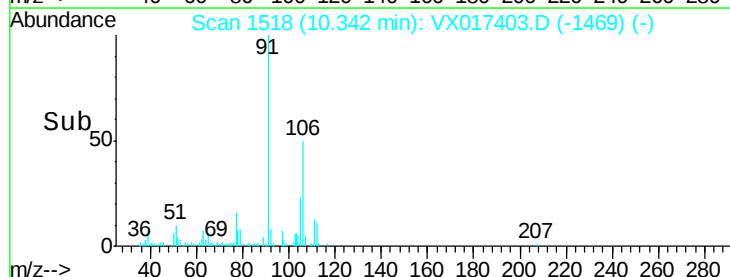
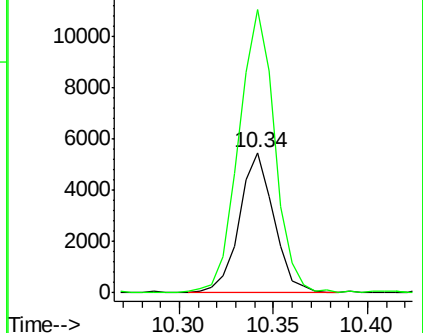
106 100

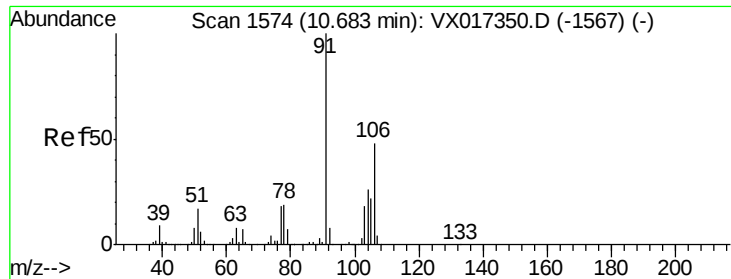
91 209.9 162.5 243.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

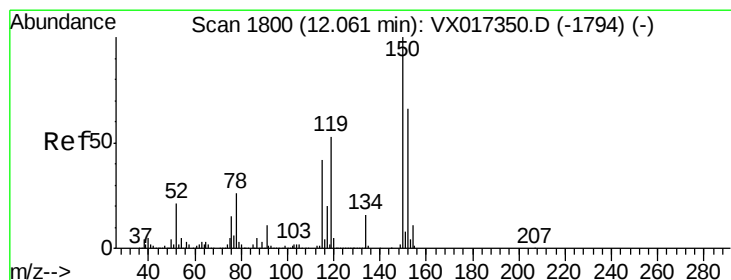
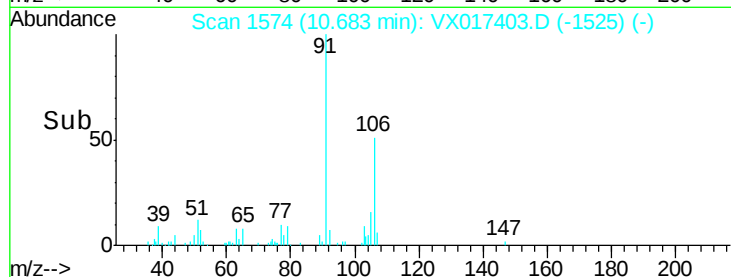
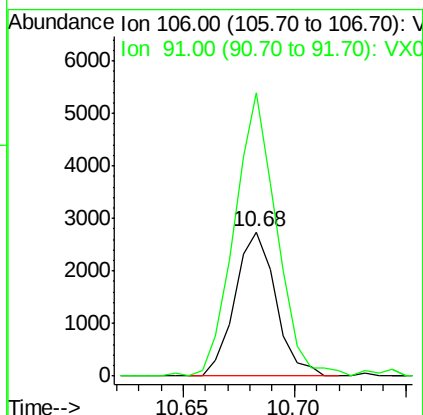
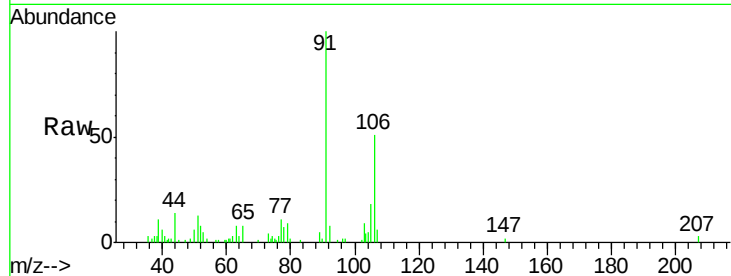




#69
o-Xylene
Concen: 0.600 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX017403.D
Acq: 16 Jul 2020 19:53

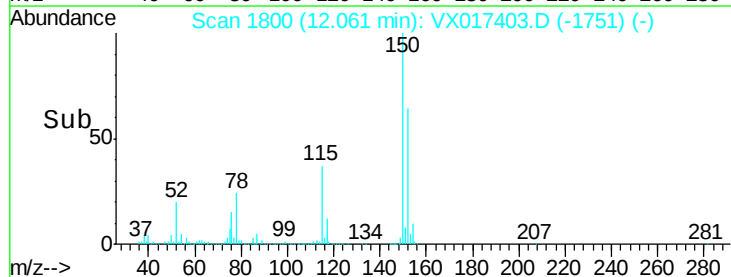
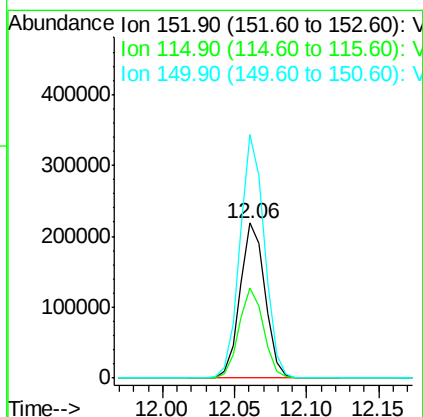
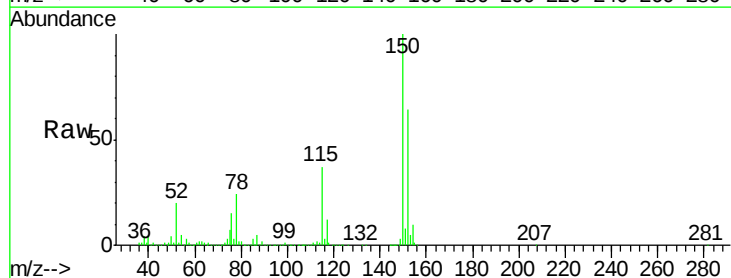
Instrument :
MSVOA_X
ClientSampled :
I-LGC-4

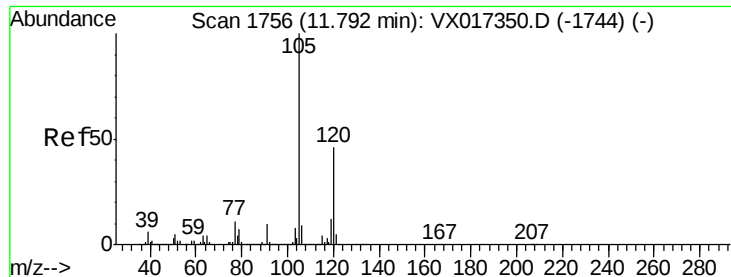
Tot Ion:106 Resp: 3501
Ion Ratio Lower Upper
106 100
91 202.5 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017403.D
Acq: 16 Jul 2020 19:53

Tgt Ion:152 Resp: 262532
Ion Ratio Lower Upper
152 100
115 57.1 39.9 119.7
150 154.4 0.0 343.4

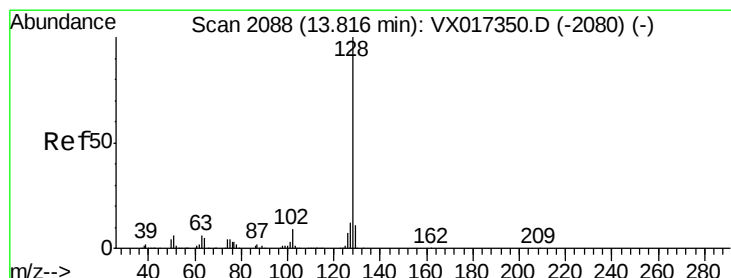
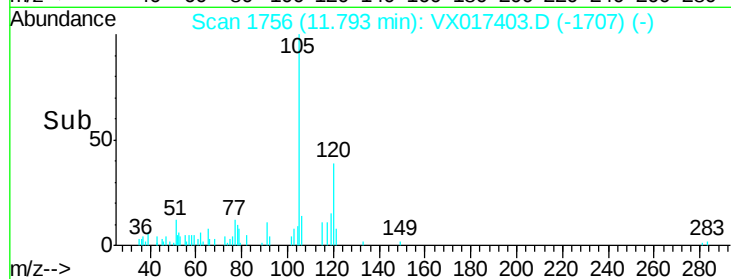
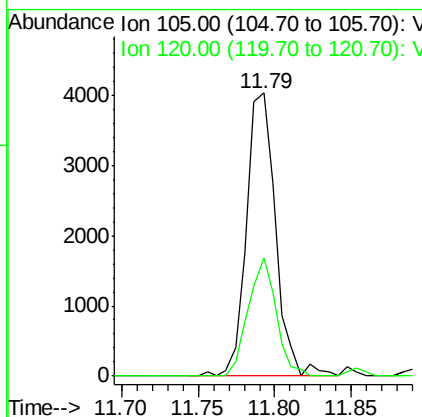
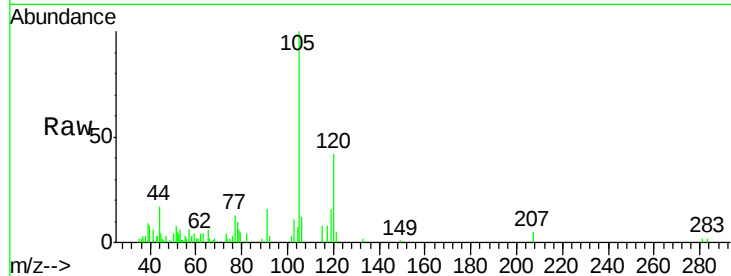




#84
 1,2,4-Trimethylbenzene
 Concen: 0.378 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX017403.D
 Acq: 16 Jul 2020 19:53

Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-4

Tot Ion:105 Resp: 5340
 Ion Ratio Lower Upper
 105 100
 120 40.0 22.8 68.4



#95
 Naphthalene
 Concen: 65.414 ug/l
 RT: 13.82 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VX017403.D
 Acq: 16 Jul 2020 19:53

Tgt Ion:128 Resp: 1052029
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.2 15.4
 129 10.9 8.9 13.3

