

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082020\
 Data File : VX018037.D
 Acq On : 20 Aug 2020 16:04
 Operator : JC/SP
 Sample : L3721-04DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 E-LGC-6DL

Quant Time: Aug 21 01:26:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 05:36:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	581192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	910493	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	863761	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	423881	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	371841	43.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.28%	
35) Dibromofluoromethane	5.47	113	307952	45.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.84%	
50) Toluene-d8	8.70	98	1151453	48.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.08%	
62) 4-Bromofluorobenzene	11.12	95	419902	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	

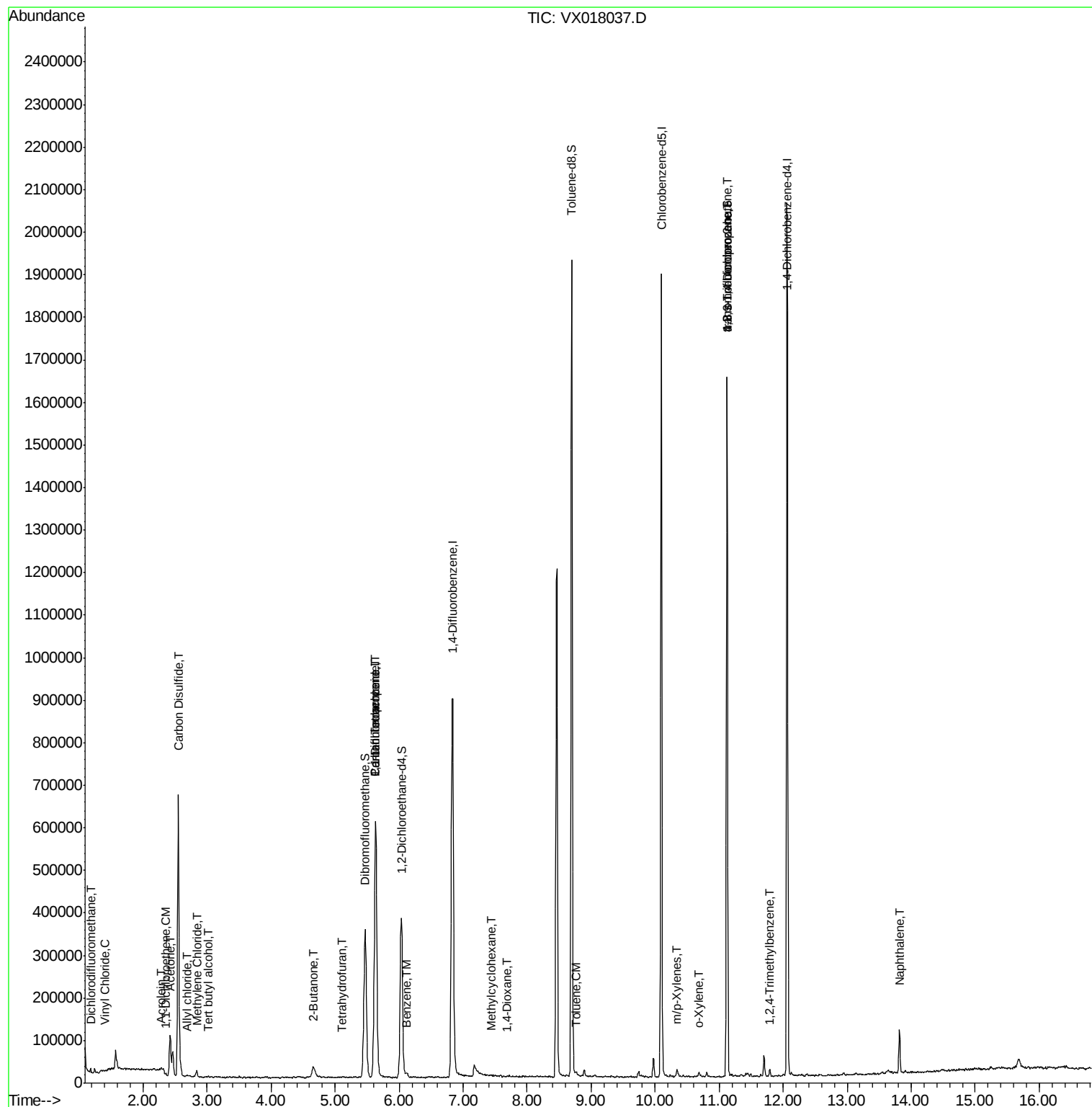
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.18	85	455	1.040	ug/l	87
4) Vinyl Chloride	1.40	62	272	2.291	ug/l #	32
11) Tert butyl alcohol	3.01	59	781	0.475	ug/l #	71
12) 1,1-Dichloroethene	2.36	96	1123	0.214	ug/l #	4
13) Acrolein	2.28	56	426	0.490	ug/l #	13
14) Allyl chloride	2.68	41	2813	0.301	ug/l #	62
16) Acetone	2.42	43	105054	31.343	ug/l	100
17) Carbon Disulfide	2.55	76	809702	63.704	ug/l	100
20) Methylene Chloride	2.84	84	5747	0.931	ug/l #	80
25) 2-Butanone	4.65	43	8645	1.704	ug/l #	89
29) Tetrahydrofuran	5.12	42	2279	0.723	ug/l #	84
36) 1,1-Dichloropropene	5.63	75	42463	5.572	ug/l #	52
38) Carbon Tetrachloride	5.63	117	55548	5.632	ug/l #	16
39) Methylcyclohexane	7.43	83	352	0.849	ug/l #	25
40) Benzene	6.12	78	10952	0.477	ug/l #	90
49) 1,4-Dioxane	7.68	88	80	0.536	ug/l #	1
52) Toluene	8.77	92	3106	0.207	ug/l	91
68) m/p-Xylenes	10.34	106	3745	0.344	ug/l	93
69) o-Xylene	10.68	106	2493	0.238	ug/l	83
76) 1,2,3-Trichloropropane	11.12	75	204930	22.734	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	204930	59.723	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	7356	0.297	ug/l	95
95) Naphthalene	13.82	128	60403	2.287	ug/l	98

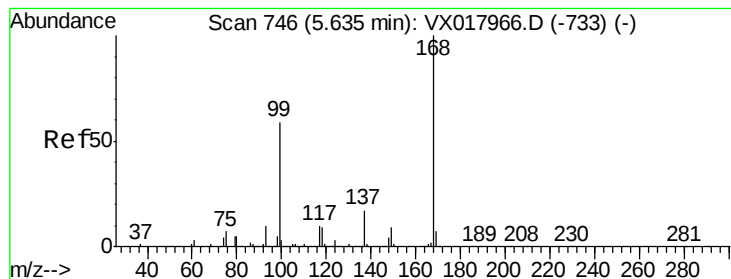
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 21 01:26:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 19 05:36:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

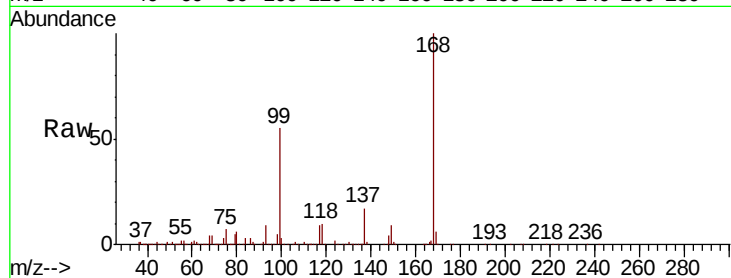
E-LGC-6DL

Tot Ion:168 Resp: 581192

Ion Ratio Lower Upper

168 100

99 55.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

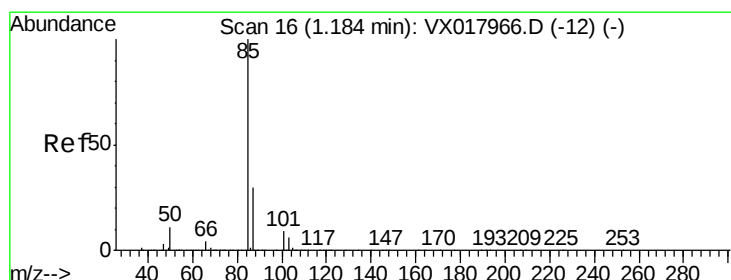
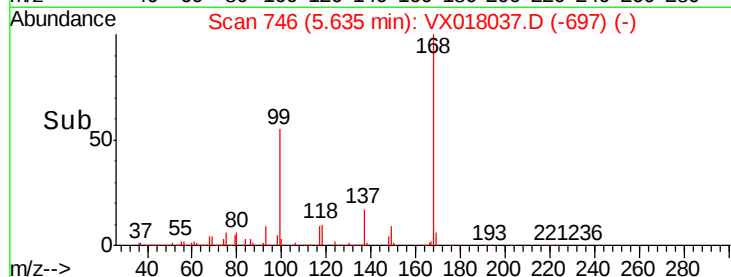
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.040 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018037.D

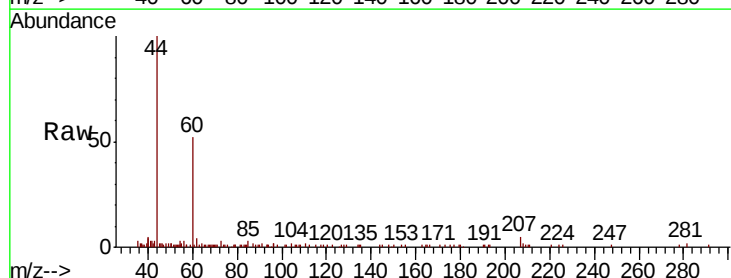
Acq: 20 Aug 2020 16:04

Tgt Ion: 85 Resp: 455

Ion Ratio Lower Upper

85 100

87 37.7 15.3 45.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

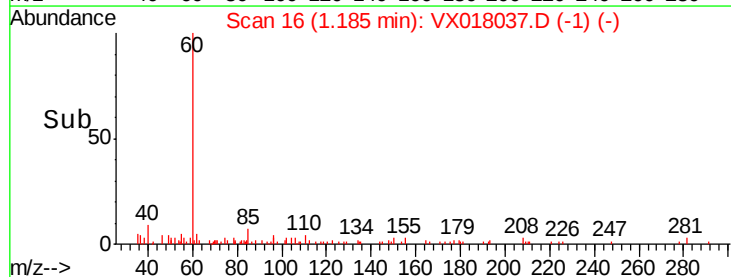
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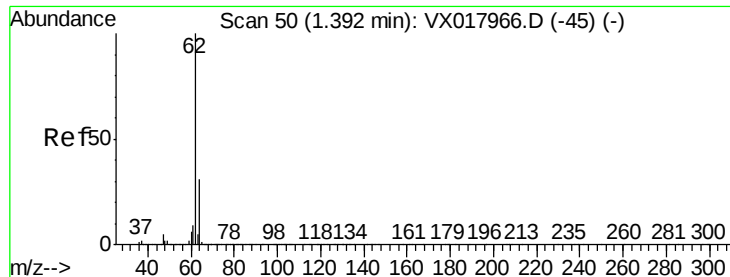
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 2.291 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

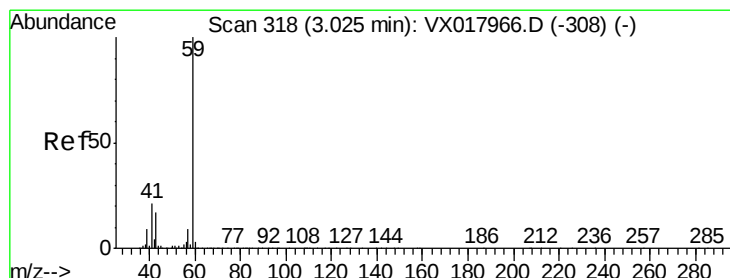
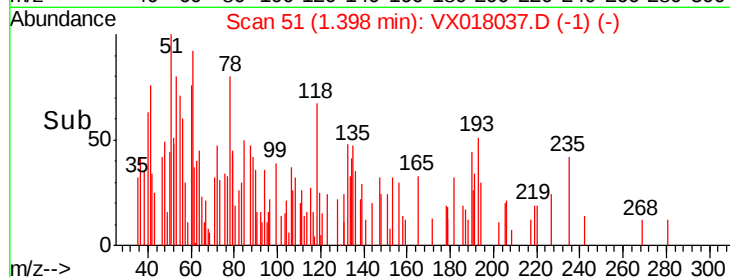
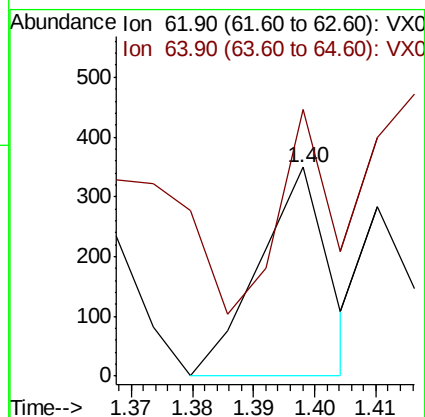
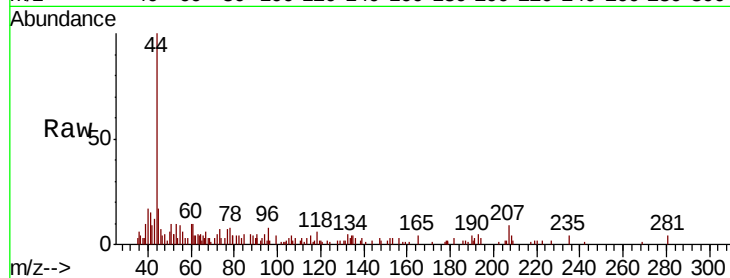
E-LGC-6DL

Tot Ion: 62 Resp: 272

Ion Ratio Lower Upper

62 100

64 68.5 24.7 37.1#



#11

Tert butyl alcohol

Concen: 0.475 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX018037.D

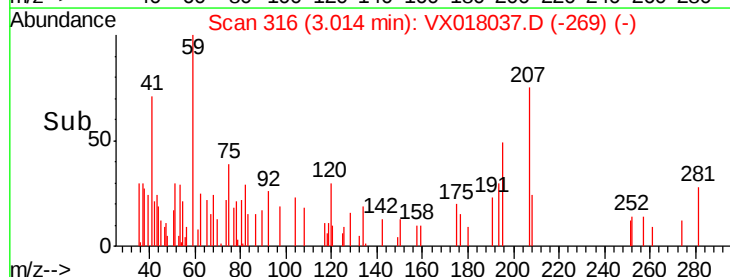
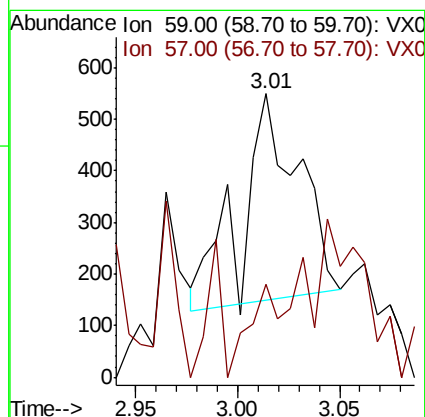
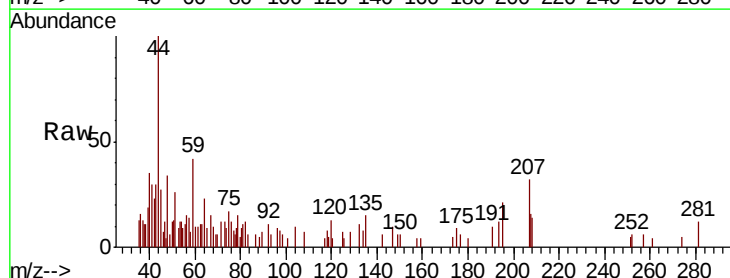
Acq: 20 Aug 2020 16:04

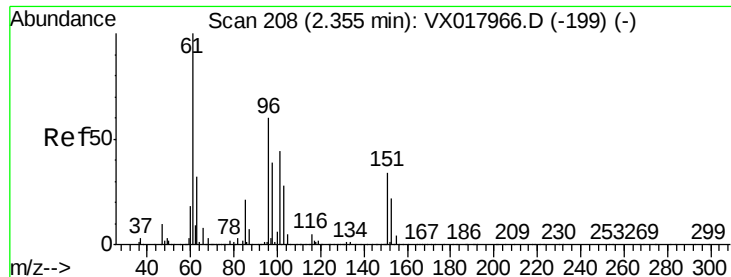
Tgt Ion: 59 Resp: 781

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#12

1,1-Dichloroethene

Concen: 0.214 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

E-LGC-6DL

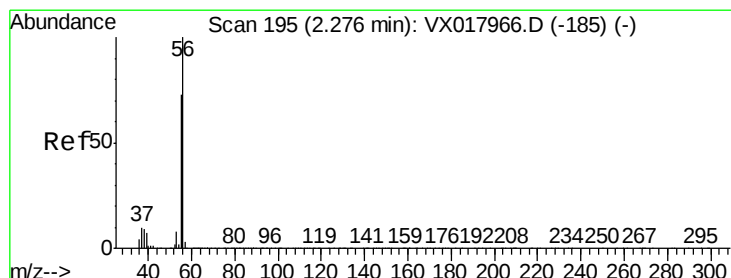
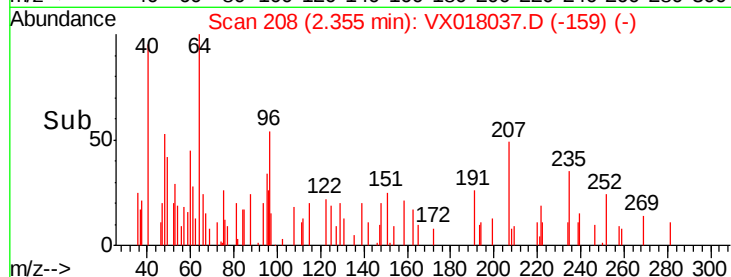
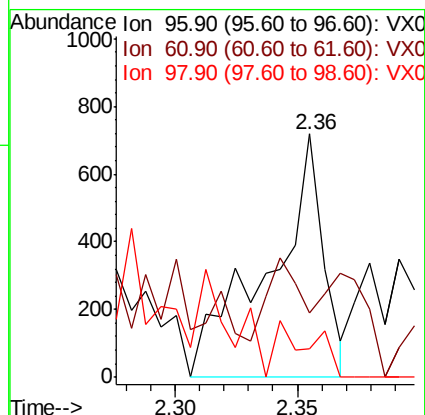
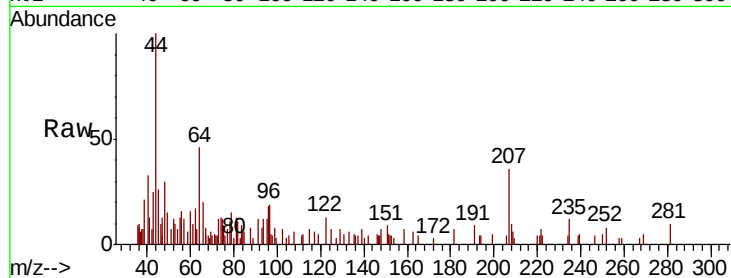
Tot Ion: 96 Resp: 1123

Ion Ratio Lower Upper

96 100

61 6.8 132.9 199.3#

98 32.8 51.6 77.4#



#13

Acrolein

Concen: 0.490 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018037.D

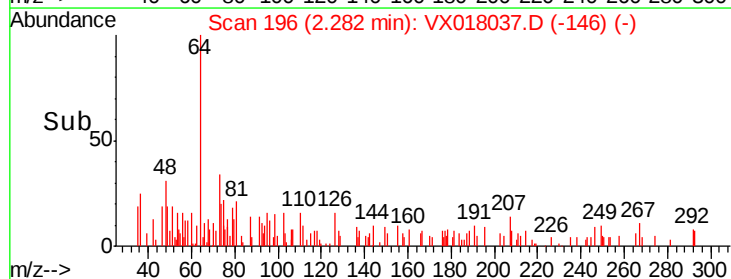
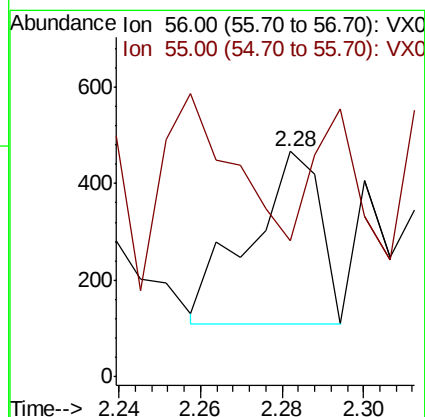
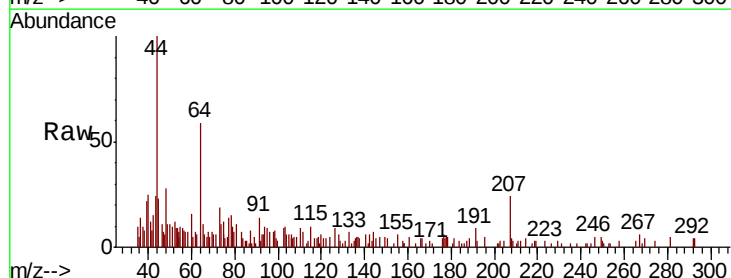
Acq: 20 Aug 2020 16:04

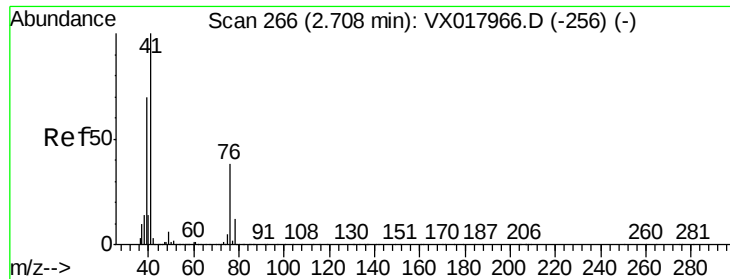
Tgt Ion: 56 Resp: 426

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#

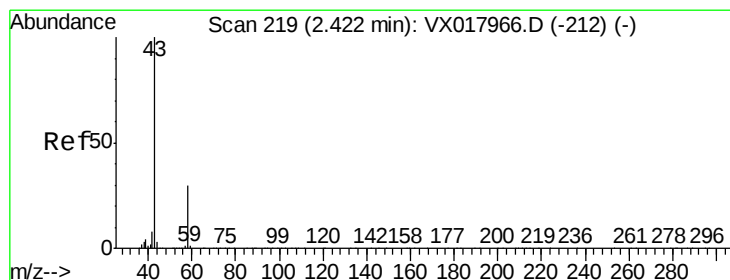
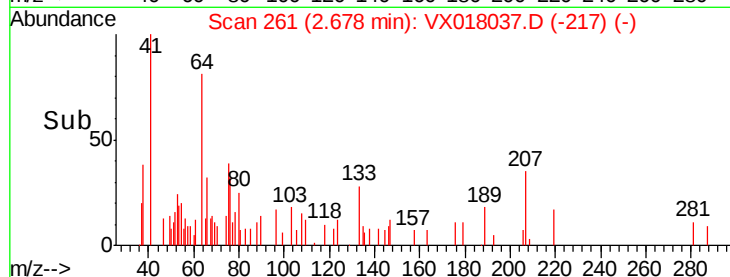
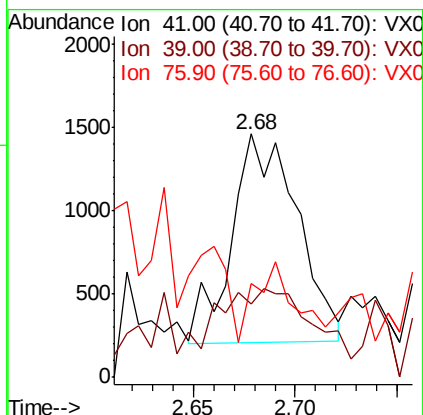
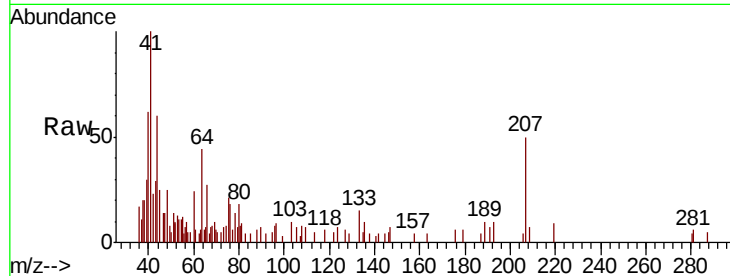




#14
Allvl chloride
Concen: 0.301 ug/l
RT: 2.68 min Scan# 261
Delta R.T. -0.03 min
Lab File: VX018037.D
Acq: 20 Aug 2020 16:04

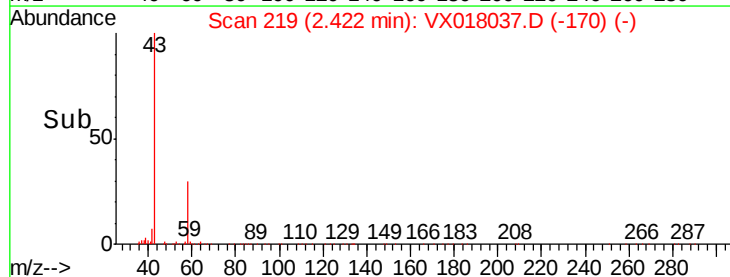
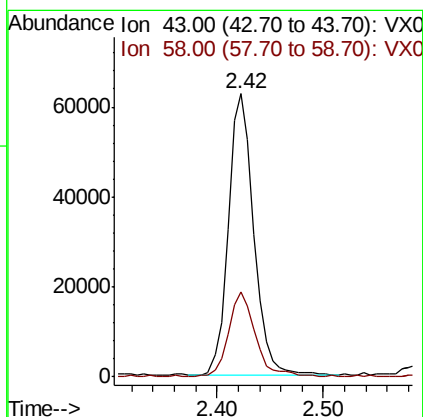
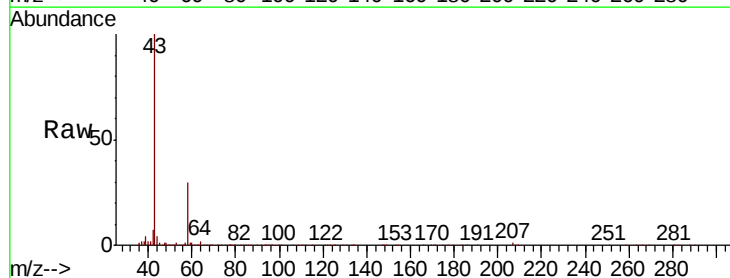
Instrument :
MSVOA_X
ClientSampleId :
E-LGC-6DL

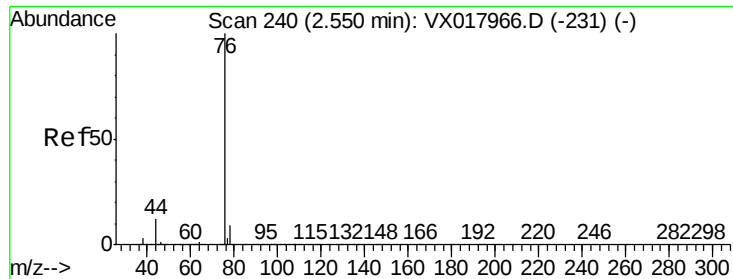
Tot Ion: 41 Resp: 2813
Ion Ratio Lower Upper
41 100
39 43.1 51.7 77.5#
76 0.0 26.3 39.5#



#16
Acetone
Concen: 31.343 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX018037.D
Acq: 20 Aug 2020 16:04

Tgt Ion: 43 Resp: 105054
Ion Ratio Lower Upper
43 100
58 30.1 23.8 35.8

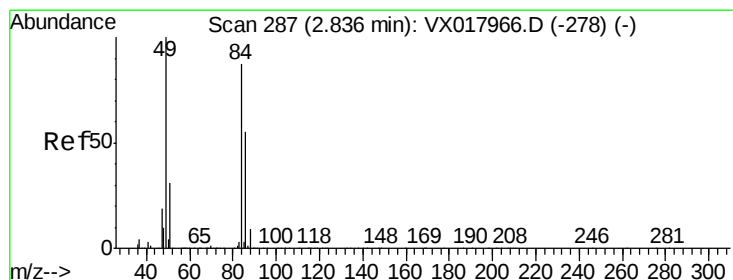
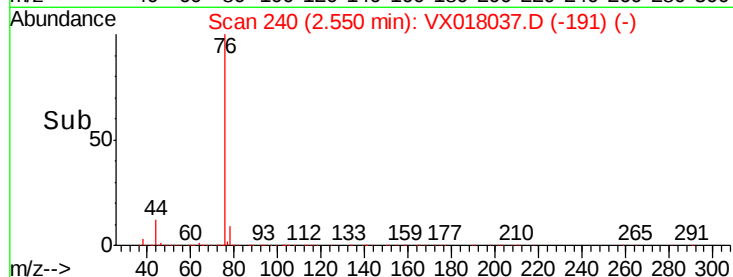
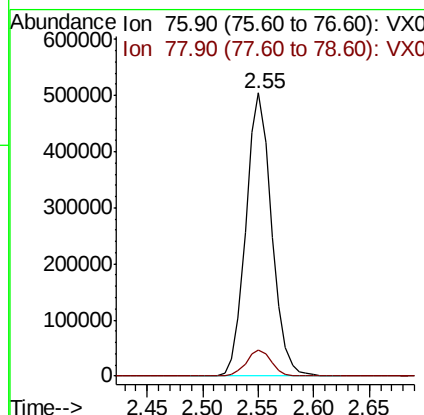
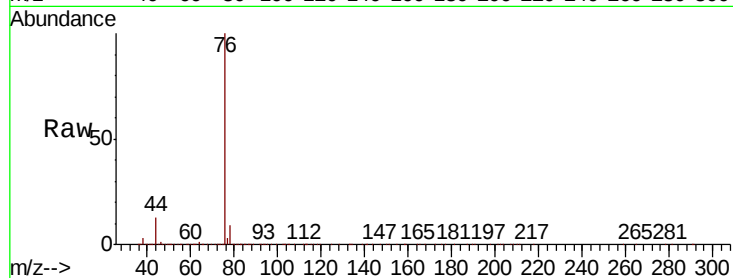




#17
Carbon Disulfide
Concen: 63.704 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX018037.D
Acq: 20 Aug 2020 16:04

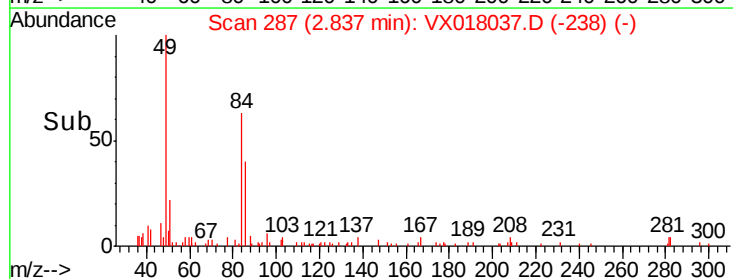
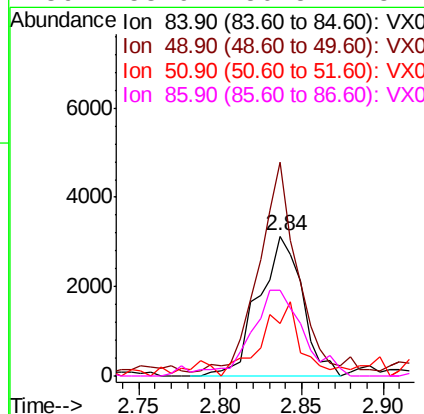
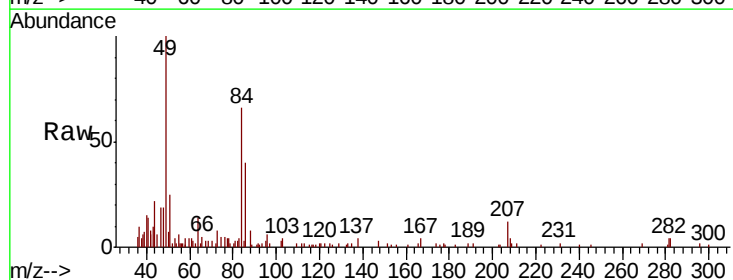
Instrument :
MSVOA_X
ClientSampled :
E-LGC-6DL

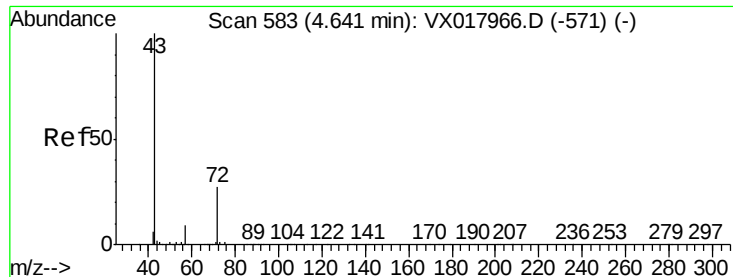
Tot Ion: 76 Resp: 809702
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9



#20
Methylene Chloride
Concen: 0.931 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018037.D
Acq: 20 Aug 2020 16:04

Tgt Ion: 84 Resp: 5747
Ion Ratio Lower Upper
84 100
49 149.8 91.8 137.6#
51 33.3 27.8 41.8
86 58.9 50.5 75.7





#25

2-Butanone

Concen: 1.704 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

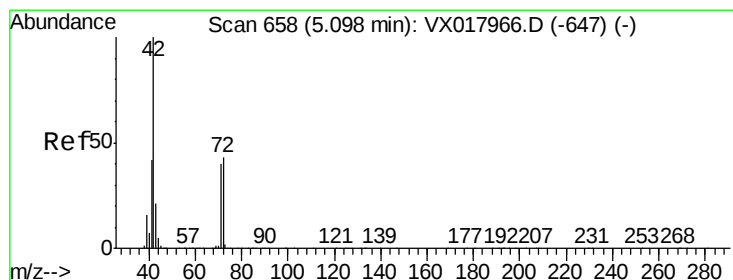
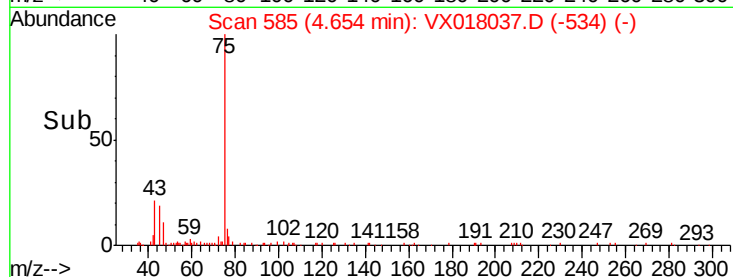
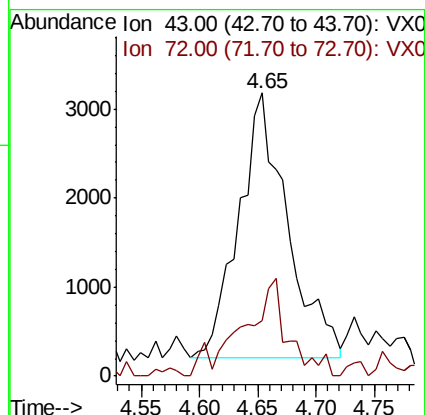
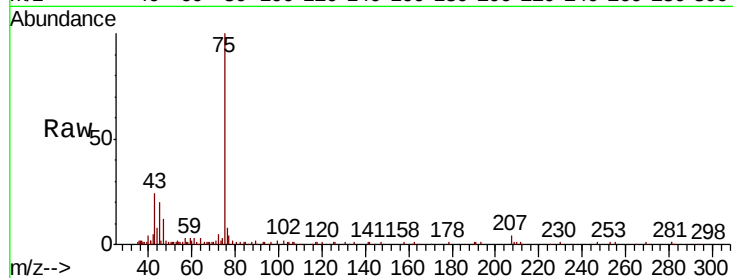
E-LGC-6DL

Tot Ion: 43 Resp: 8645

Ion Ratio Lower Upper

43 100

72 21.0 21.4 32.2#



#29

Tetrahydrofuran

Concen: 0.723 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

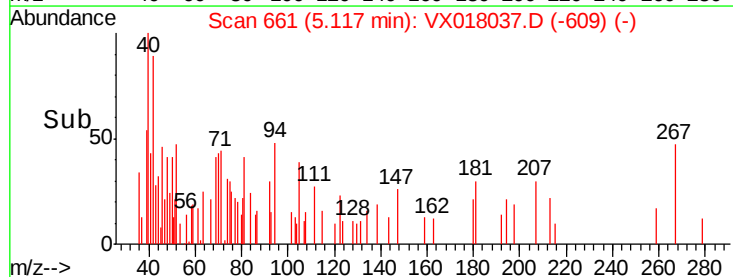
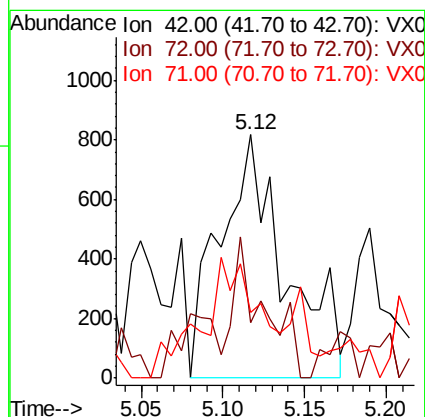
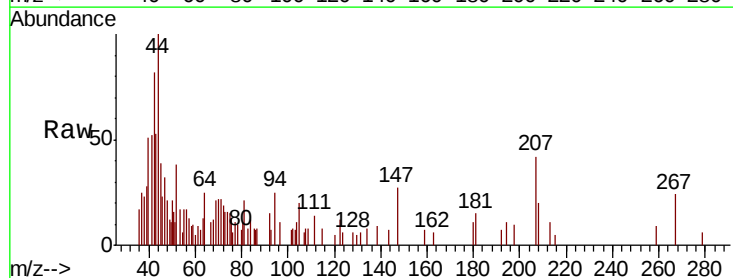
Tgt Ion: 42 Resp: 2279

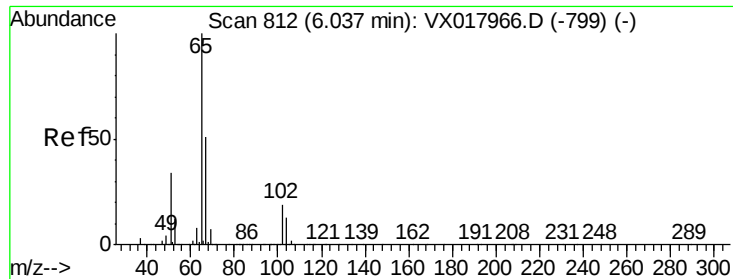
Ion Ratio Lower Upper

42 100

72 27.2 35.9 53.9#

71 43.4 33.0 49.4

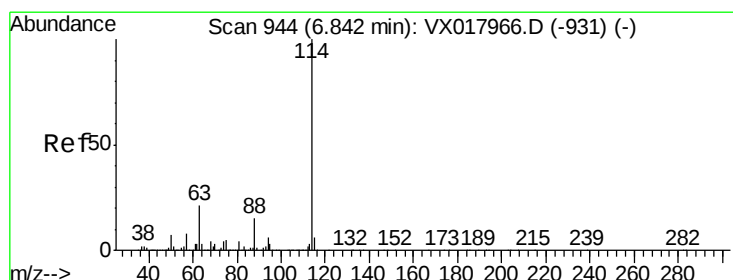
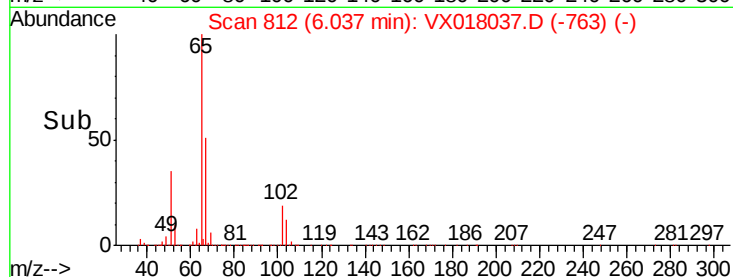
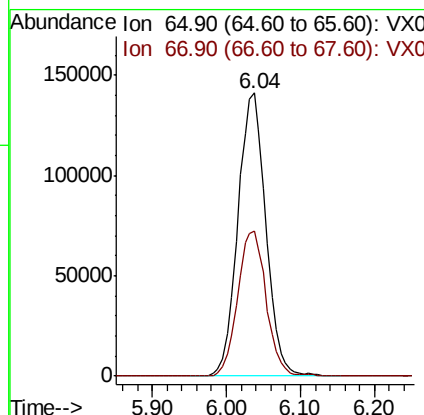
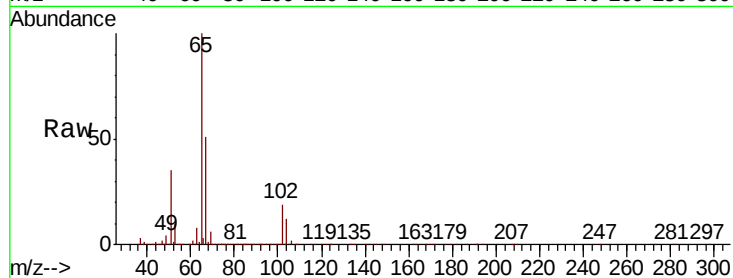




#33
 1,2-Dichloroethane-d4
 Concen: 43.644 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: VX018037.D
 Acq: 20 Aug 2020 16:04

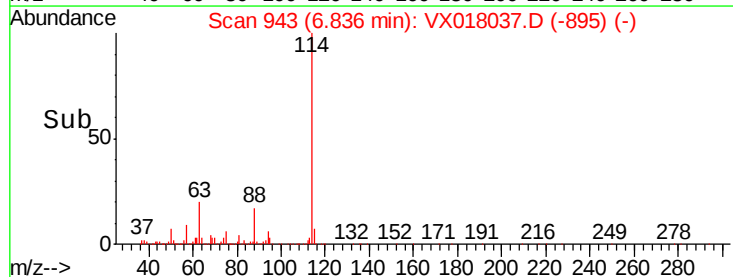
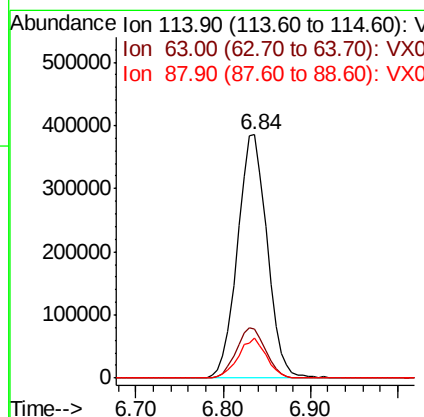
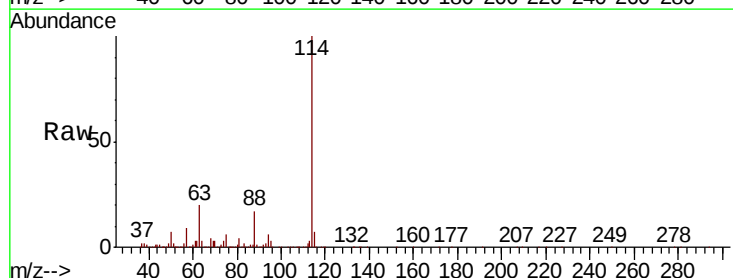
Instrument :
 MSVOA_X
 ClientSampleId :
 E-LGC-6DL

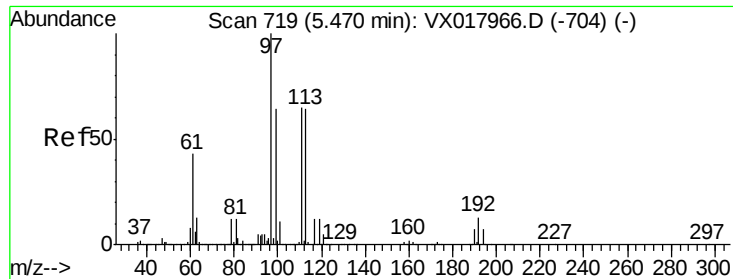
Tot Ion: 65 Resp: 371841
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.01 min
 Lab File: VX018037.D
 Acq: 20 Aug 2020 16:04

Tgt Ion: 114 Resp: 910493
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 42.6
 88 16.5 0.0 30.2

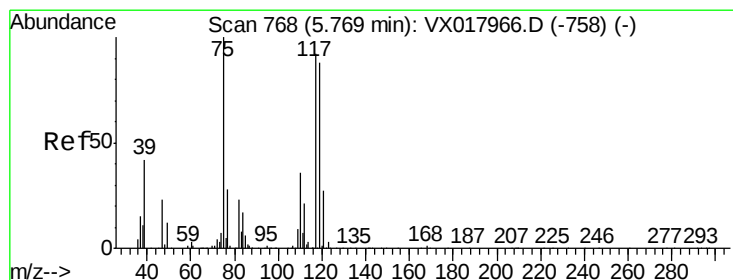
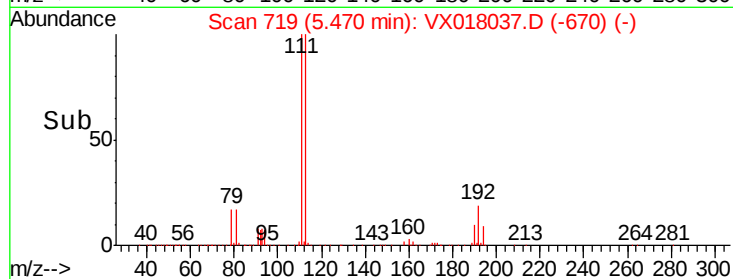
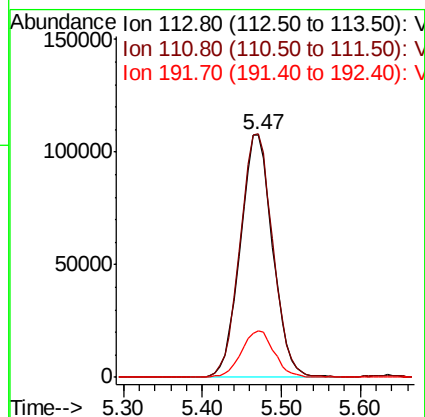
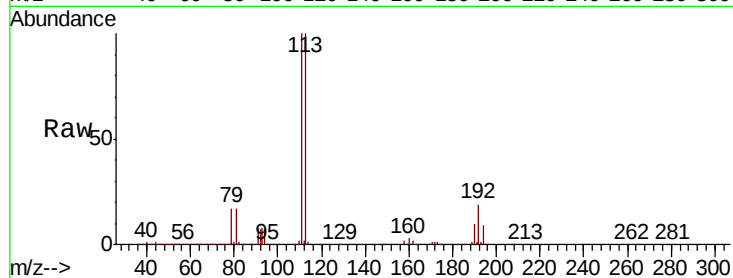




#35
 Dibromofluoromethane
 Concen: 45.419 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX018037.D
 Acq: 20 Aug 2020 16:04

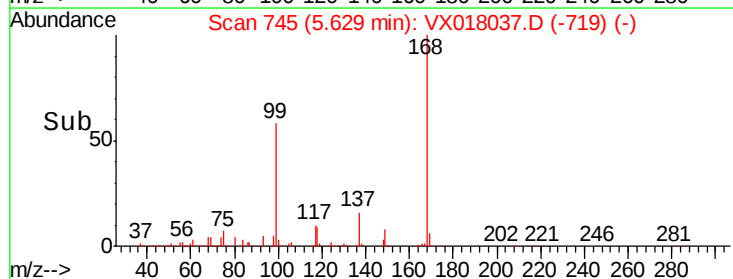
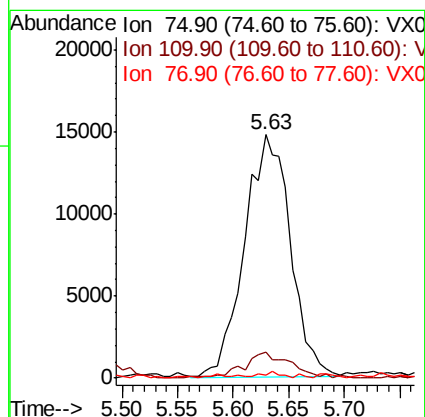
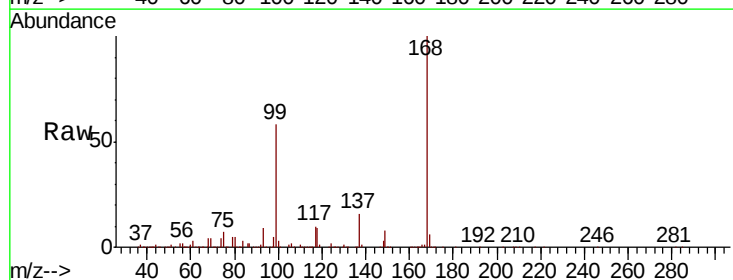
Instrument :
 MSVOA_X
 ClientSampleId :
 E-LGC-6DL

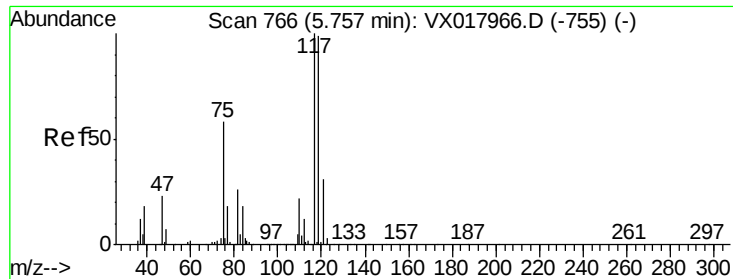
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.5	125.3
192	19.6	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 5.572 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018037.D
 Acq: 20 Aug 2020 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.7	56.1#
77	1.4	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 5.632 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

E-LGC-6DL

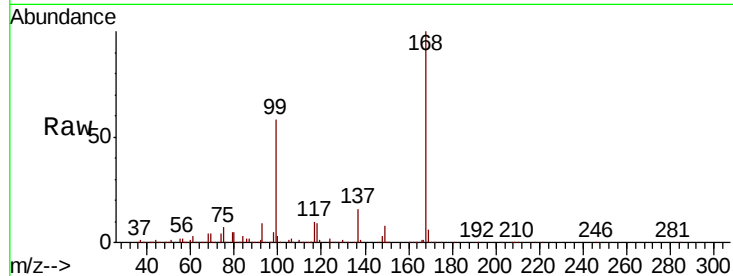
Tot Ion:117 Resp: 55548

Ion Ratio Lower Upper

117 100

119 6.2 79.0 118.6#

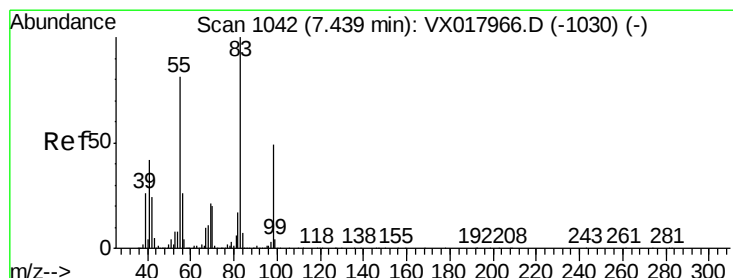
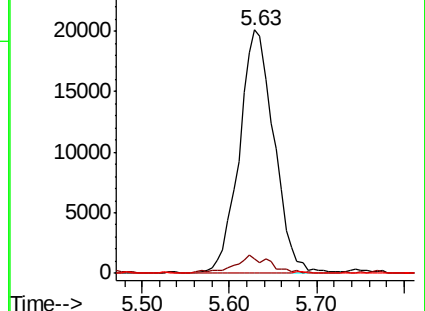
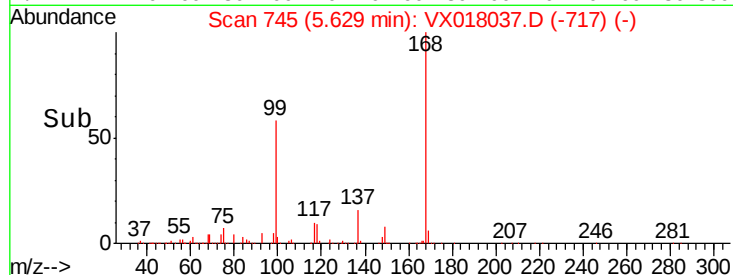
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.849 ug/l

RT: 7.43 min Scan# 1041

Delta R.T. -0.01 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

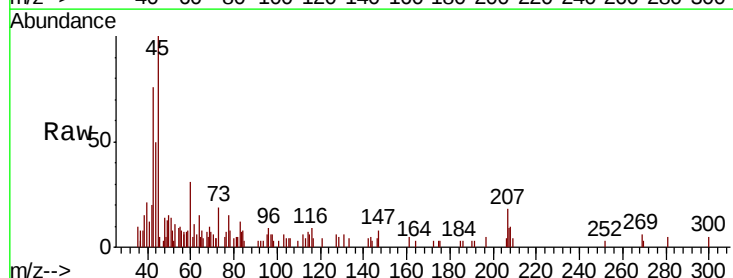
Tgt Ion: 83 Resp: 352

Ion Ratio Lower Upper

83 100

55 0.0 64.5 96.7#

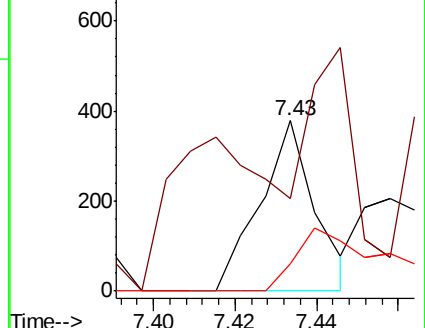
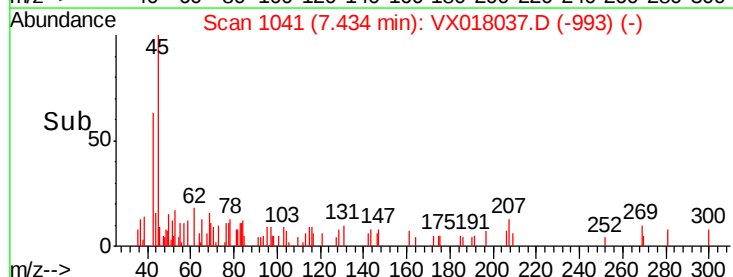
98 16.1 39.0 58.6#

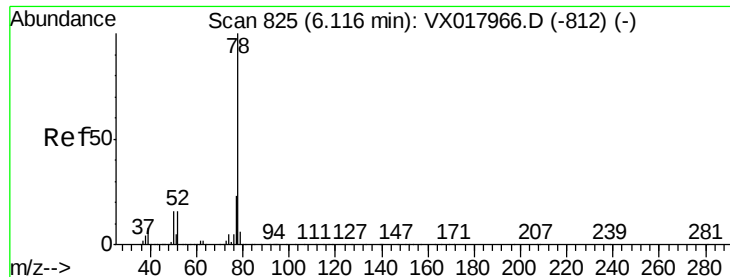


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 0.477 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.00 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

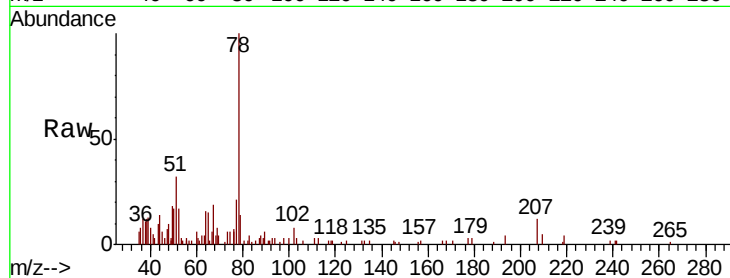
E-LGC-6DL

Tot Ion: 78 Resp: 10952

Ion Ratio Lower Upper

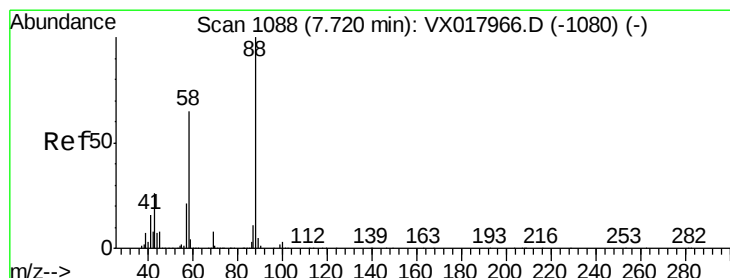
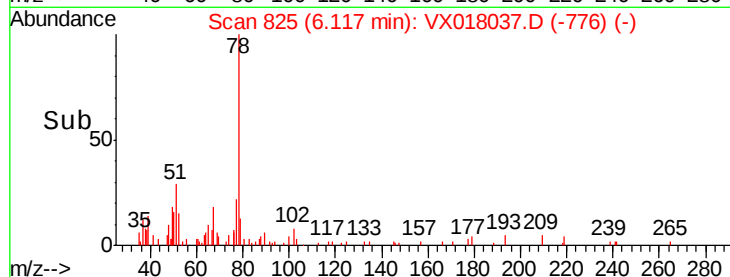
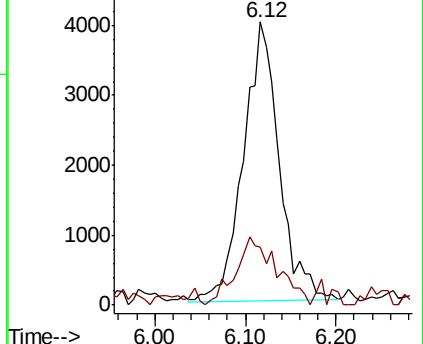
78 100

77 18.5 18.8 28.2#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#49

1,4-Dioxane

Concen: 0.536 ug/l

RT: 7.68 min Scan# 1081

Delta R.T. -0.04 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

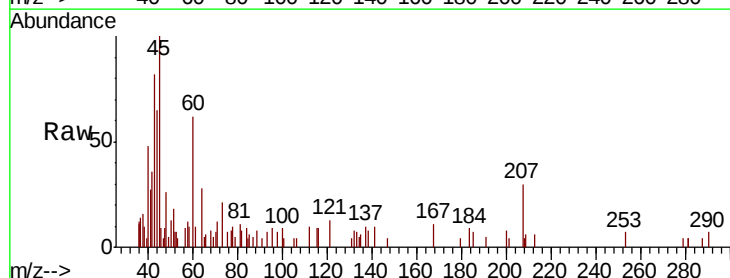
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 242.5 27.3 40.9#

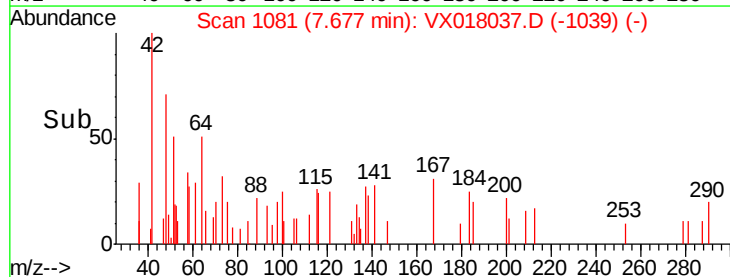
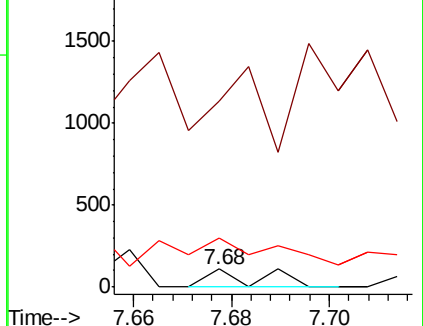
58 0.0 57.7 86.5#

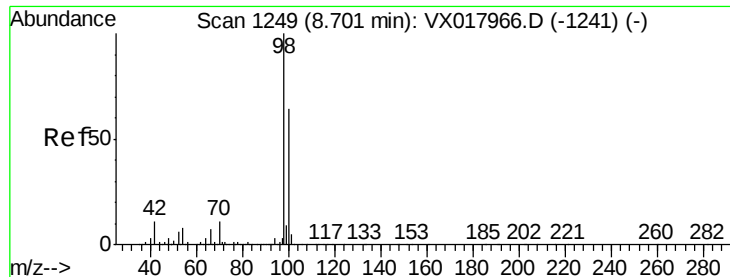


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.044 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

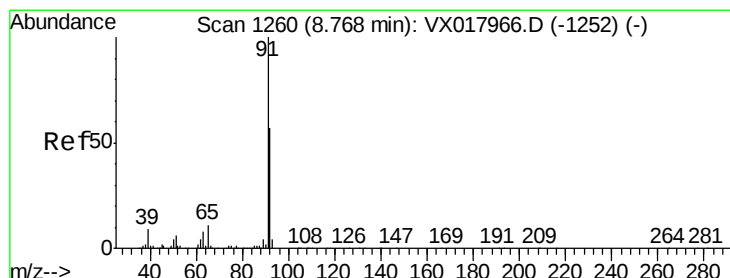
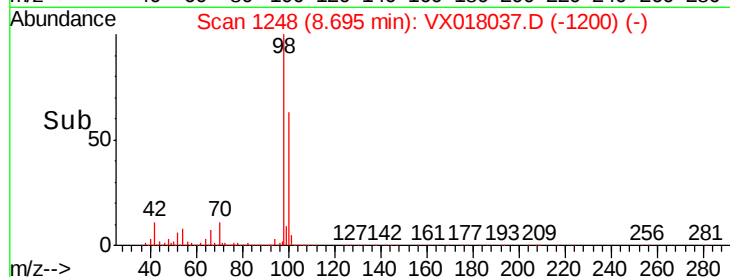
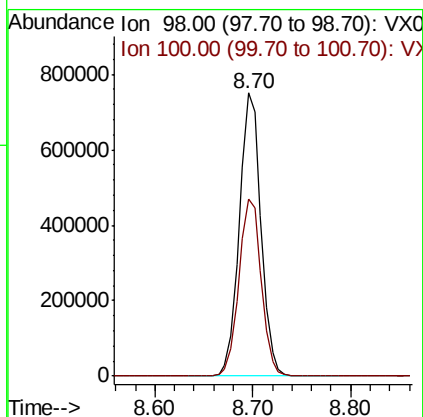
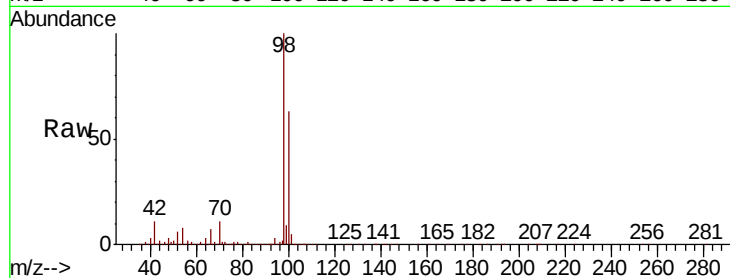
E-LGC-6DL

Tot Ion: 98 Resp: 1151453

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.2



#52

Toluene

Concen: 0.207 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VX018037.D

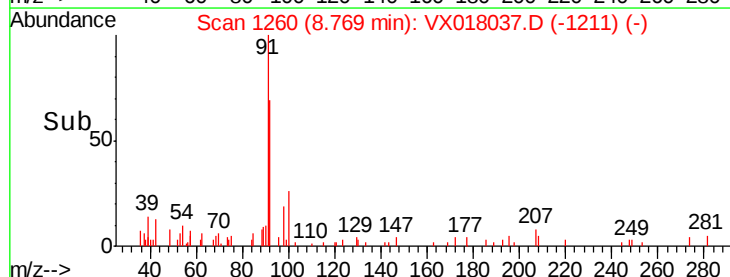
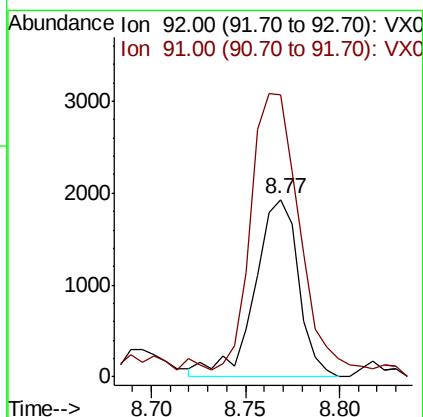
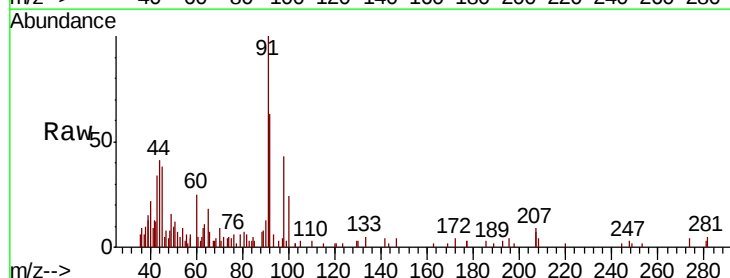
Acq: 20 Aug 2020 16:04

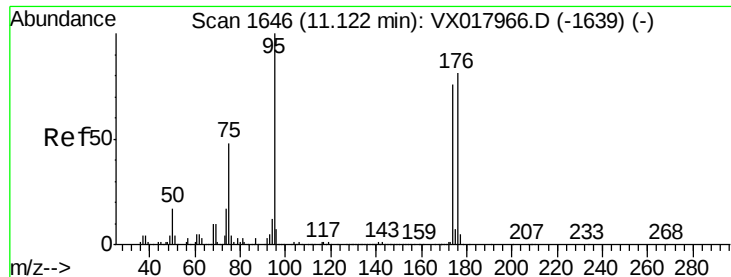
Tgt Ion: 92 Resp: 3106

Ion Ratio Lower Upper

92 100

91 185.5 138.4 207.6





#62

4-Bromofluorobenzene

Concen: 47.436 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

E-LGC-6DL

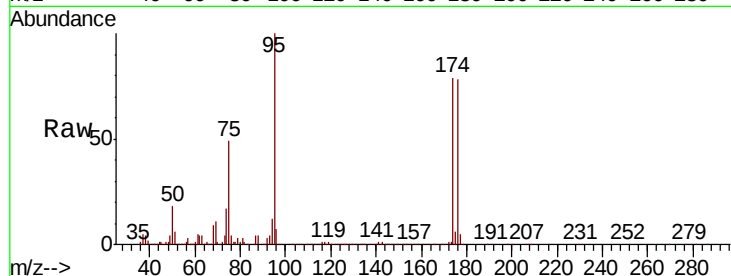
Tot Ion: 95 Resp: 419902

Ion Ratio Lower Upper

95 100

174 80.3 0.0 166.0

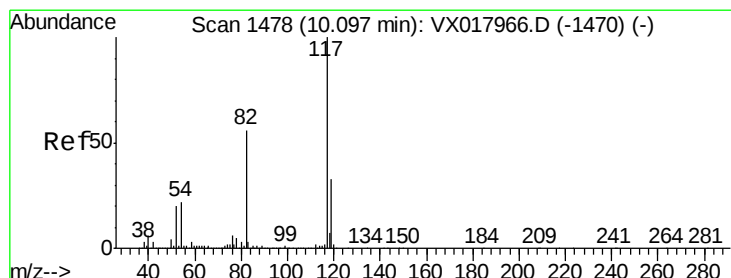
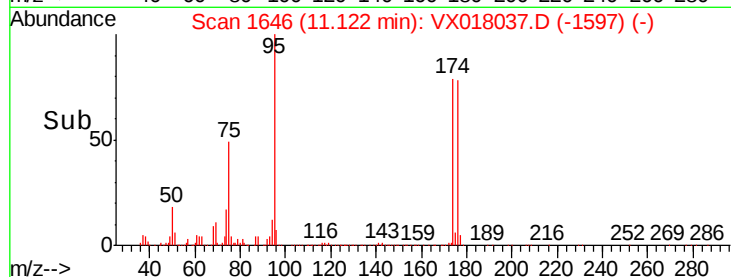
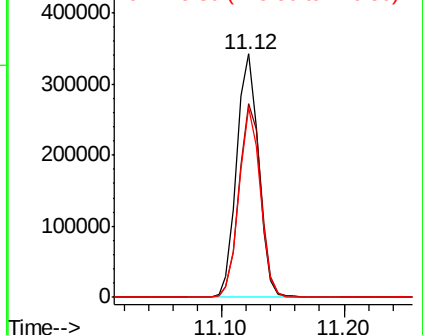
176 76.2 0.0 161.0



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: VX018037.D

Acq: 20 Aug 2020 16:04

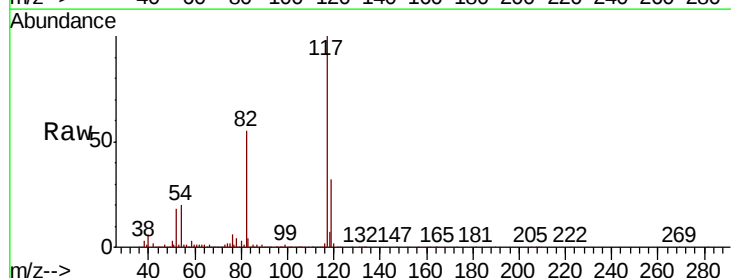
Tgt Ion: 117 Resp: 863761

Ion Ratio Lower Upper

117 100

82 55.3 44.6 66.8

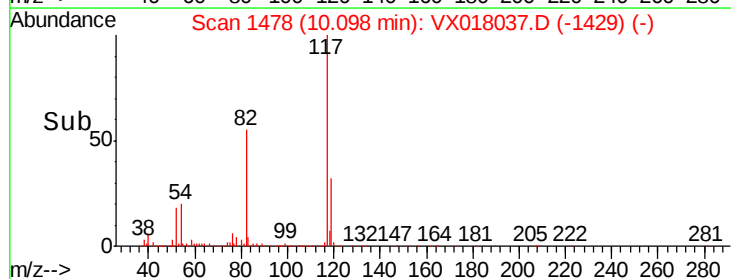
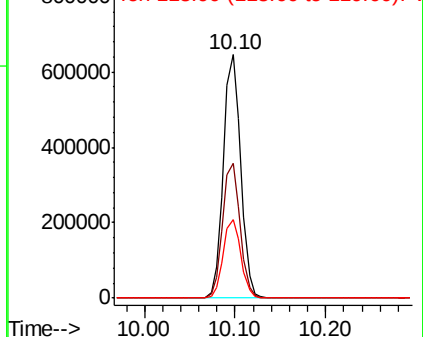
119 32.3 26.2 39.4

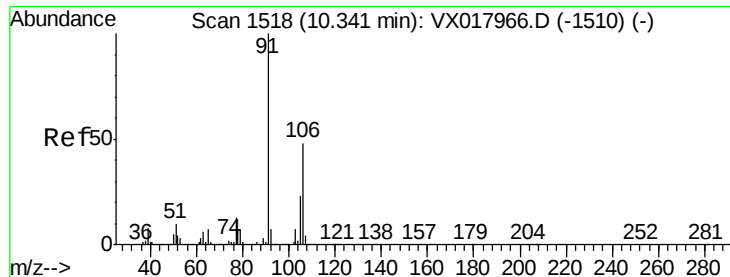


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xylenes

Concen: 0.344 ug/l

RT: 10.34 min Scan# 1517

Delta R.T. -0.01 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

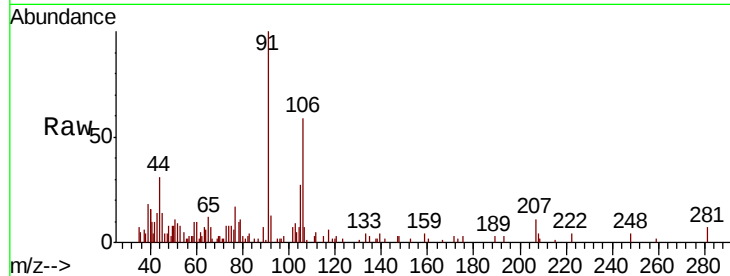
E-LGC-6DL

Tot Ion:106 Resp: 3745

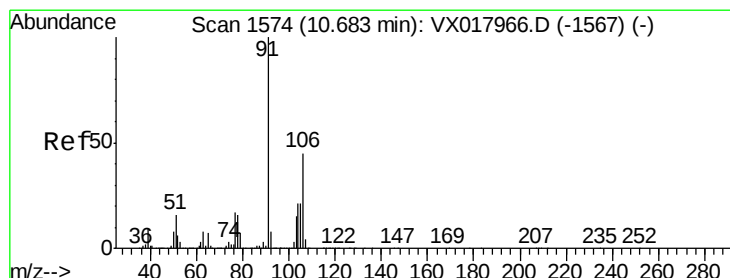
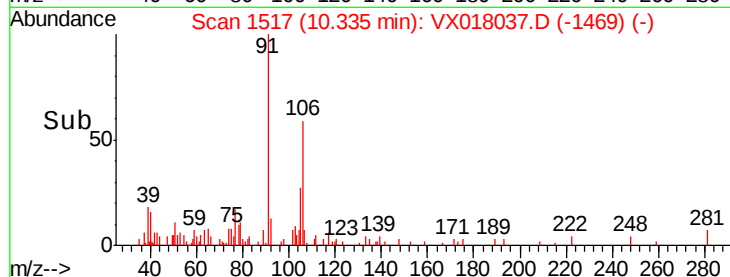
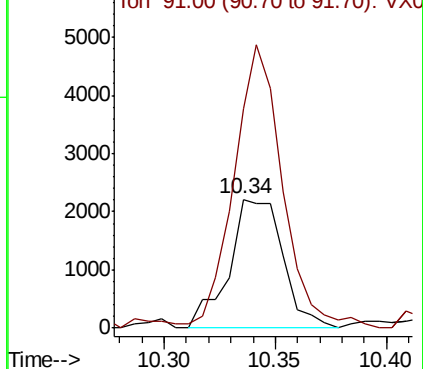
Ion Ratio Lower Upper

106 100

91 197.8 167.4 251.2



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 0.238 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018037.D

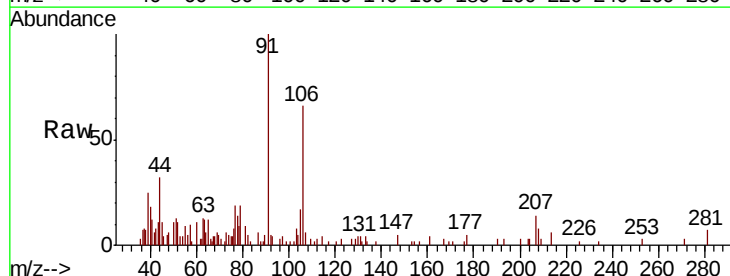
Acq: 20 Aug 2020 16:04

Tgt Ion:106 Resp: 2493

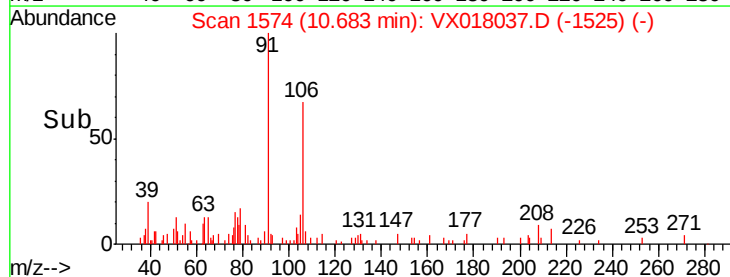
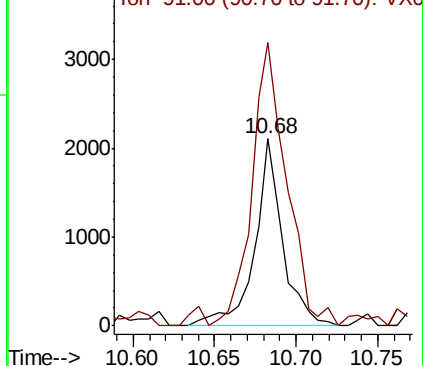
Ion Ratio Lower Upper

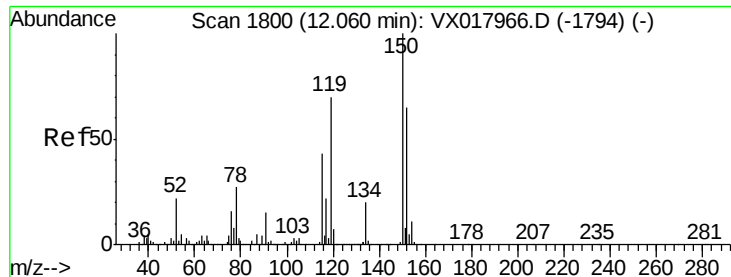
106 100

91 188.5 108.1 324.2



Abundance Ion 106.00 (105.70 to 106.70): 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: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

E-LGC-6DL

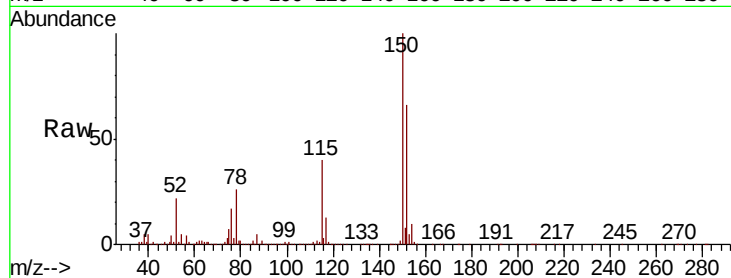
Tot Ion:152 Resp: 423881

Ion Ratio Lower Upper

152 100

115 59.0 40.6 121.7

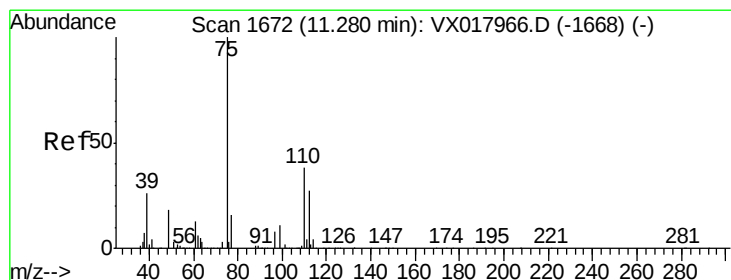
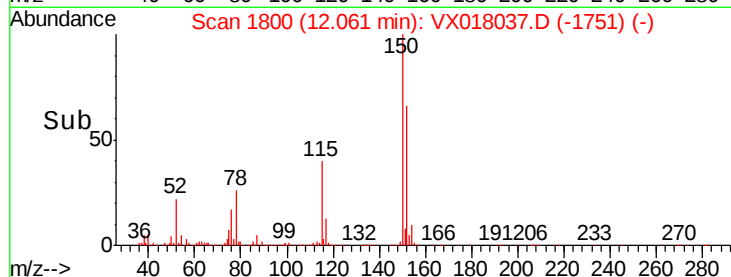
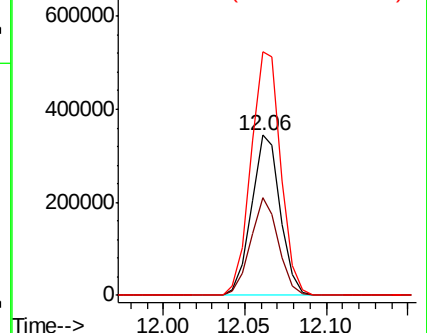
150 157.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.734 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018037.D

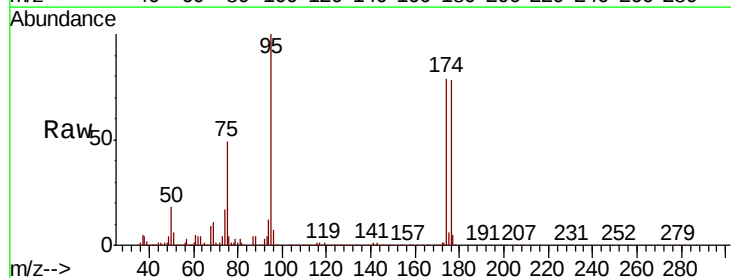
Acq: 20 Aug 2020 16:04

Tgt Ion: 75 Resp: 204930

Ion Ratio Lower Upper

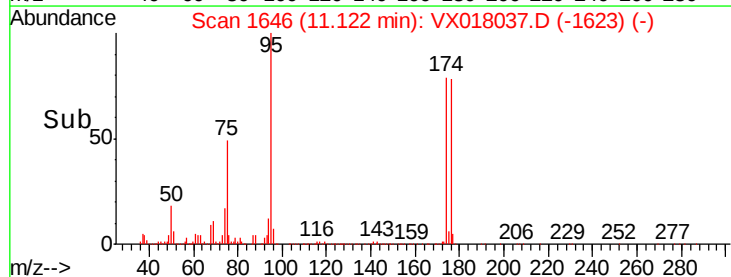
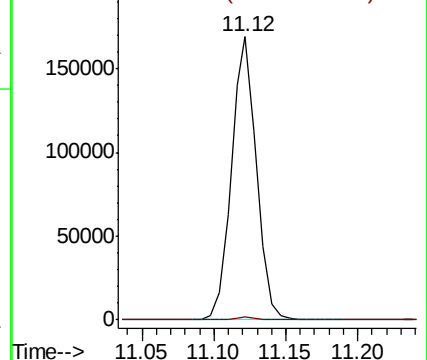
75 100

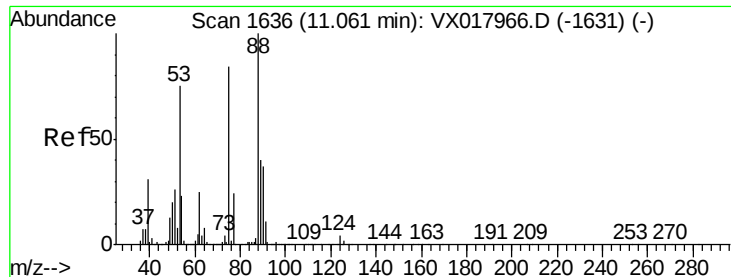
77 1.2 21.1 63.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.723 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018037.D

Acq: 20 Aug 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

E-LGC-6DL

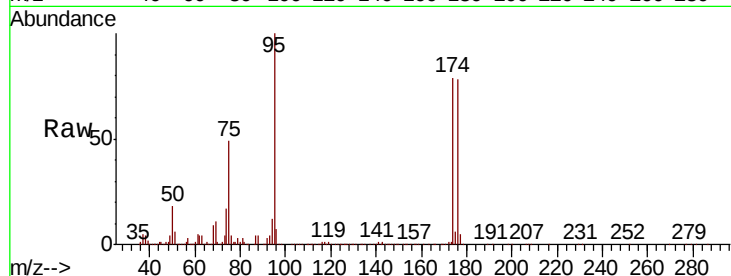
Tot Ion: 75 Resp: 204930

Ion Ratio Lower Upper

75 100

53 0.6 75.2 112.8#

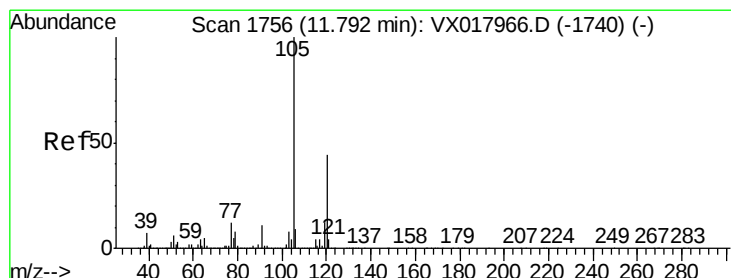
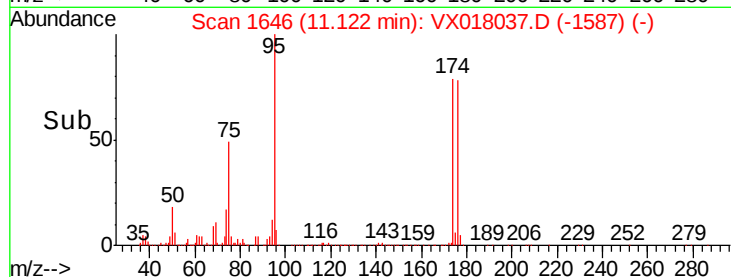
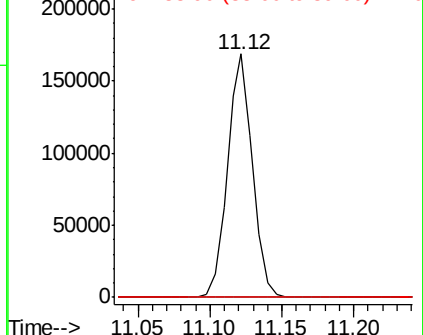
89 0.0 38.4 57.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.297 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018037.D

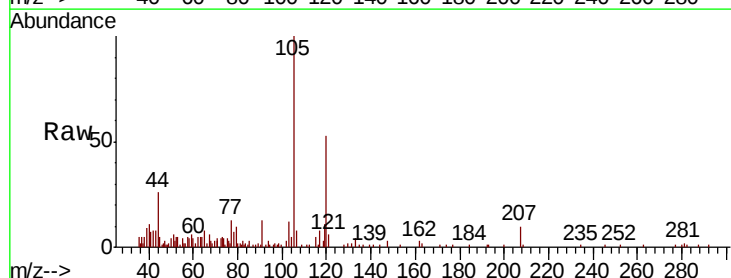
Acq: 20 Aug 2020 16:04

Tgt Ion: 105 Resp: 7356

Ion Ratio Lower Upper

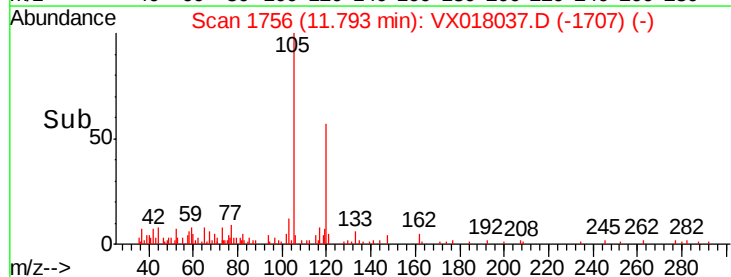
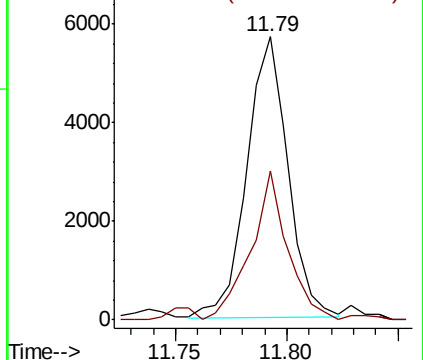
105 100

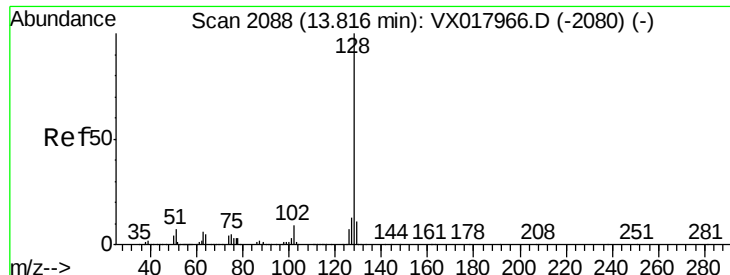
120 47.1 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 2.287 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018037.D
Acq: 20 Aug 2020 16:04

Instrument :
MSVOA_X
ClientSampleId :
E-LGC-6DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.7	16.1
129	12.1	8.6	13.0

