

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035437.D
 Acq On : 18 Aug 2020 9:22
 Operator : SY/AP
 Sample : L3510-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Quant Time: Aug 19 01:23:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1134280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5184479	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5117544	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3729620	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

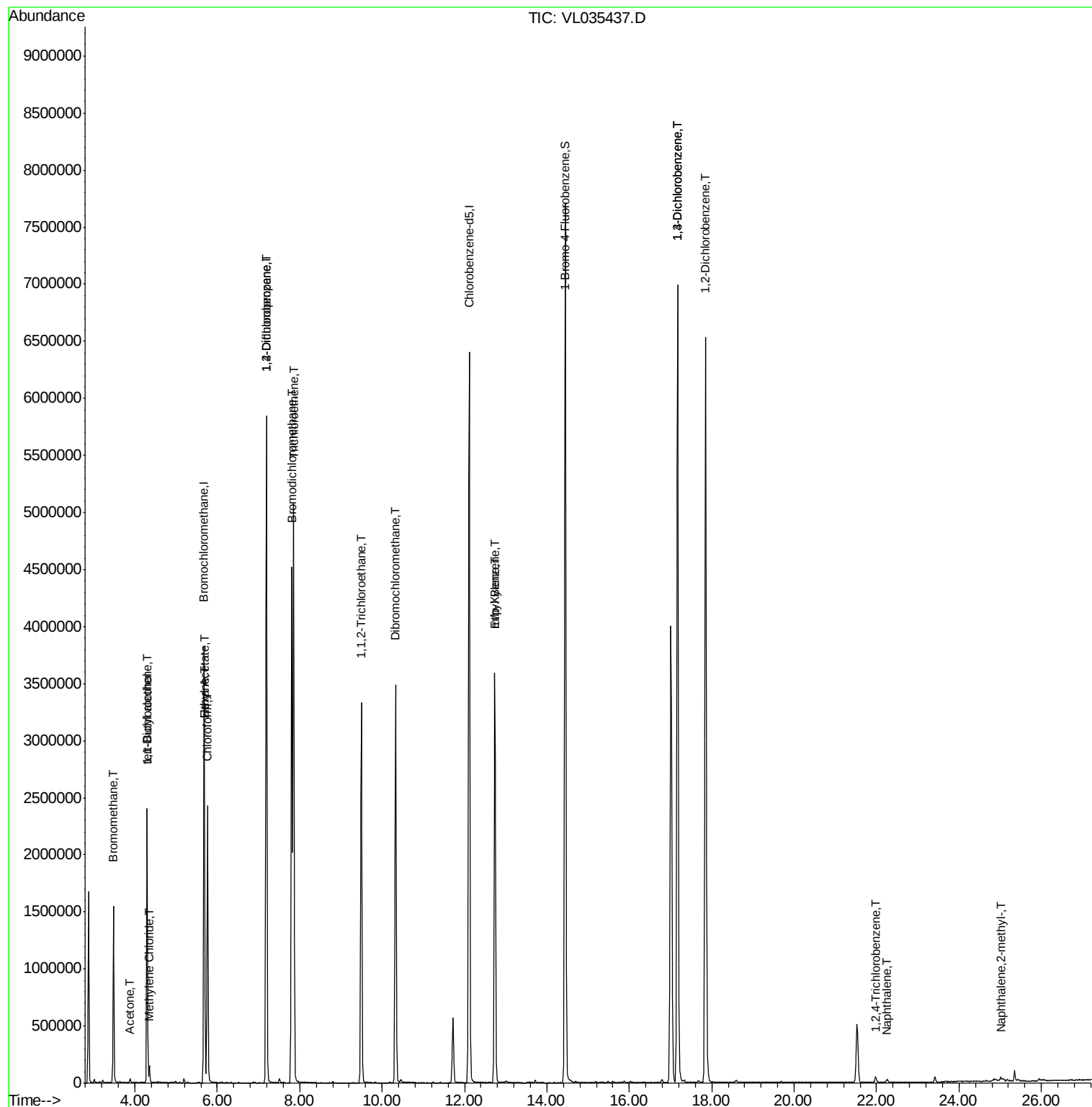
Target Compounds					Ovalue
6) Bromomethane	3.48	94	817358	10.555	ppbv 99
15) Acetone	3.88	43	26890	0.206	ppbv # 30
17) tert-Butyl alcohol	4.29	59	40699	0.241	ppbv # 71
18) 1,1-Dichloroethene	4.29	96	858802	7.913	ppbv # 60
20) Methylene Chloride	4.35	84	57205	0.543	ppbv # 62
25) Ethyl Acetate	5.70	43	21713	0.085	ppbv # 82
26) Hexane	5.70	57	36119	0.252	ppbv # 32
29) Chloroform	5.76	83	1716883	5.960	ppbv 99
38) Trichloroethene	7.85	130	1920074	9.071	ppbv # 82
39) 1,2-Dichloropropane	7.19	63	900378	7.180	ppbv # 23
42) Bromodichloromethane	7.81	83	3095523	10.638	ppbv # 98
47) 1,1,2-Trichloroethane	9.49	97	1317158	7.032	ppbv 92
48) Dibromochloromethane	10.33	129	2362555	7.519	ppbv 99
58) Ethyl Benzene	12.73	91	3535876	5.724	ppbv # 87
59) m/p-Xylene	12.73	91	3535876	6.771	ppbv 90
75) 1,3-Dichlorobenzene	17.17	146	4604642	8.853	ppbv 90
76) 1,4-Dichlorobenzene	17.17	146	4604642	8.983	ppbv 91
77) 1,2-Dichlorobenzene	17.85	146	4441180	8.718	ppbv 91
79) Naphthalene	22.25	128	35518	0.037	ppbv # 94
80) Naphthalene, 2-methyl-	25.01	142	18636	0.048	ppbv # 86
81) 1,2,4-Trichlorobenzene	21.98	180	20480	0.036	ppbv # 20

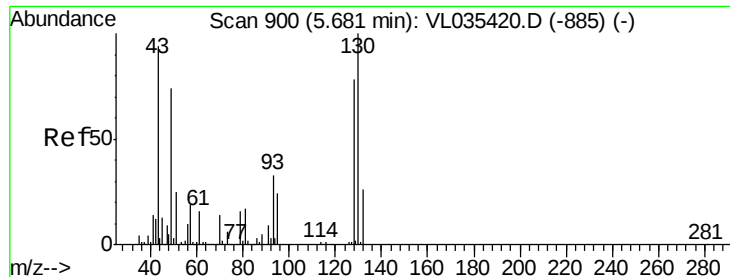
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

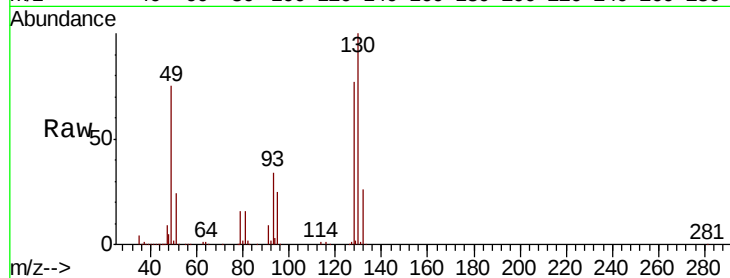
Tot Ion: 49 Resp: 1134280

Ion Ratio Lower Upper

49 100

128 105.7 20.9 62.7#

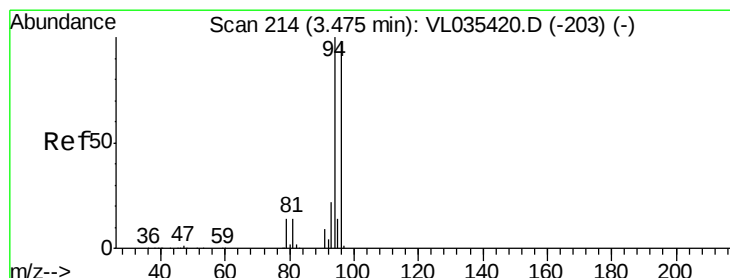
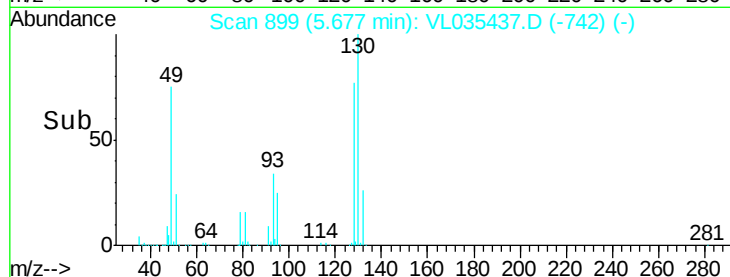
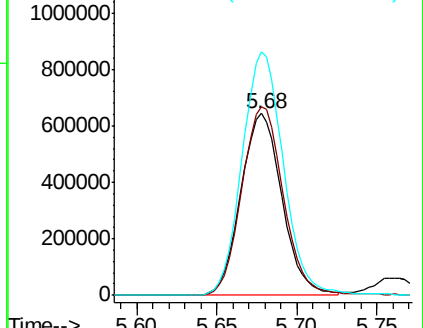
130 135.9 26.7 80.1#



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#6

Bromomethane

Concen: 10.555 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL035437.D

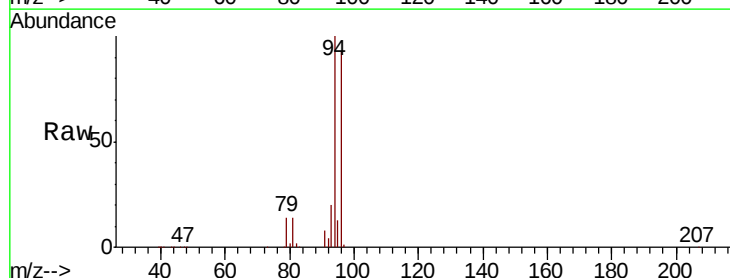
Acq: 18 Aug 2020 9:22

Tgt Ion: 94 Resp: 817358

Ion Ratio Lower Upper

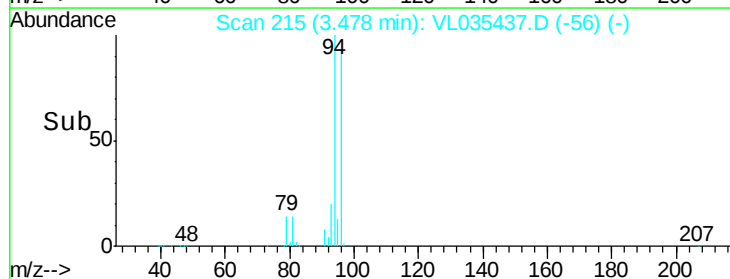
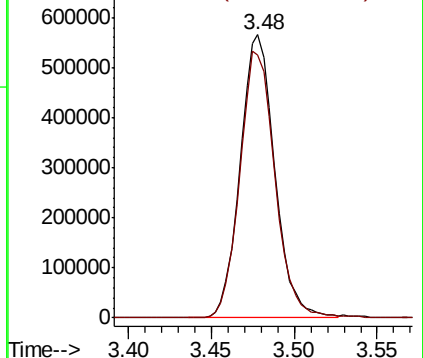
94 100

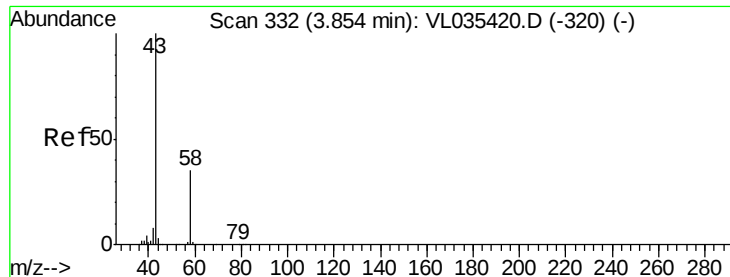
96 92.9 75.0 112.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#15

Acetone

Concen: 0.206 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.03 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

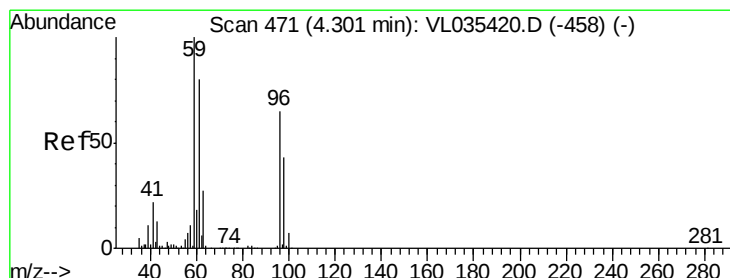
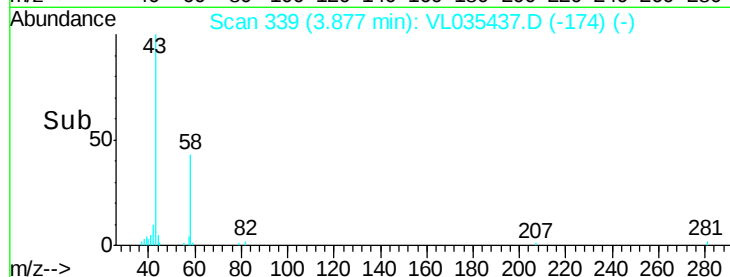
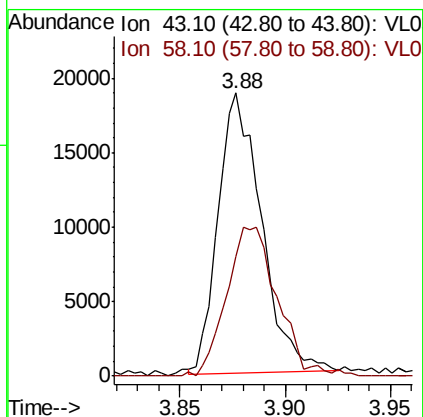
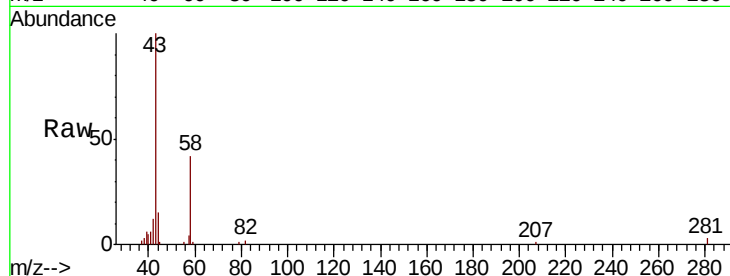
E053-1100DL

Tot Ion: 43 Resp: 26890

Ion Ratio Lower Upper

43 100

58 62.3 21.0 31.6#



#17

tert-Butyl alcohol

Concen: 0.241 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL035437.D

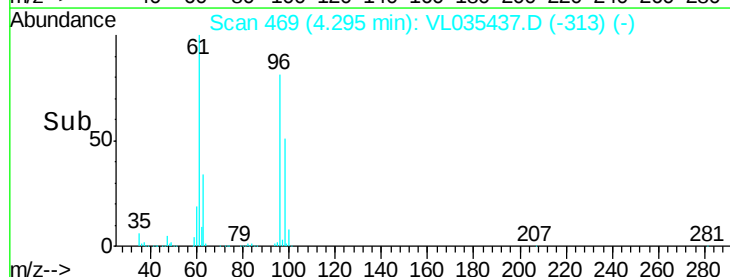
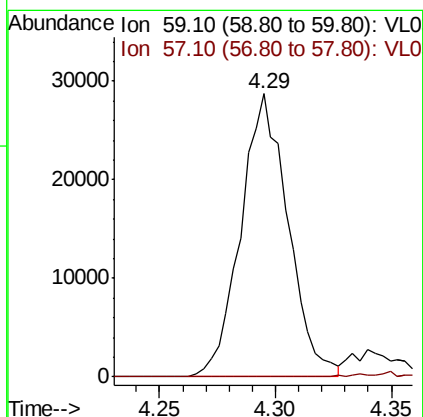
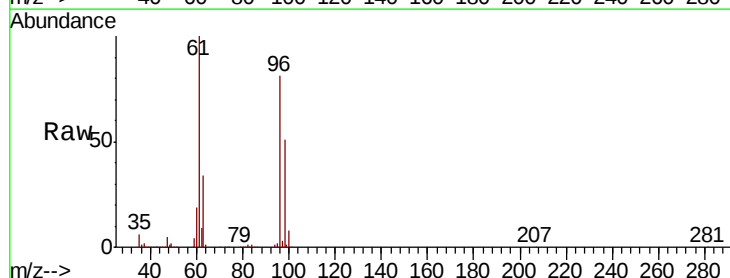
Acq: 18 Aug 2020 9:22

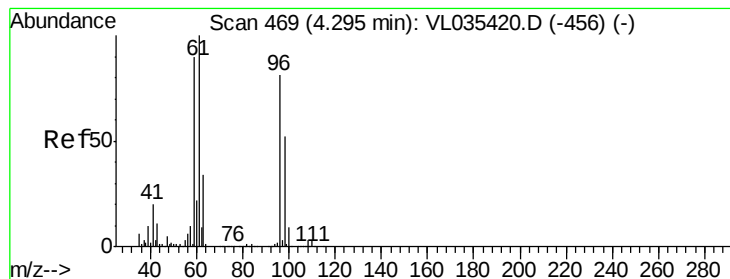
Tgt Ion: 59 Resp: 40699

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#





#18

1,1-Dichloroethene

Concen: 7.913 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

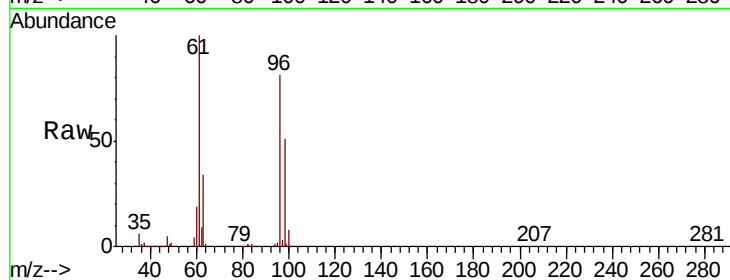
Tot Ion: 96 Resp: 858802

Ion Ratio Lower Upper

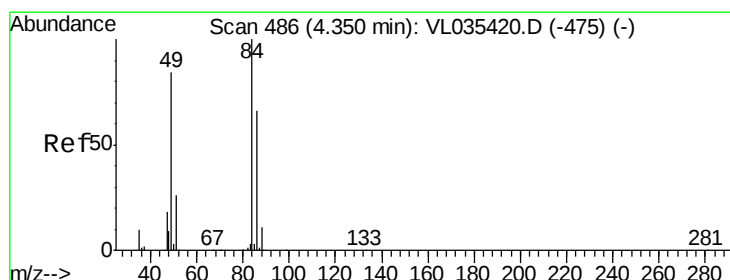
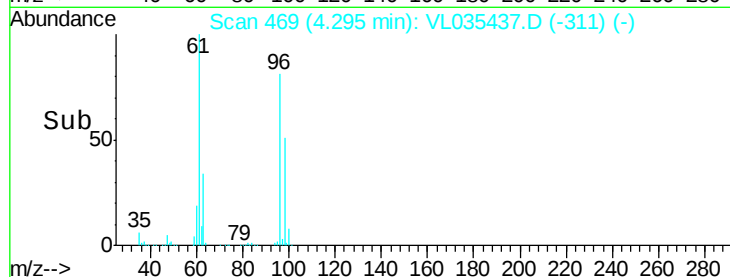
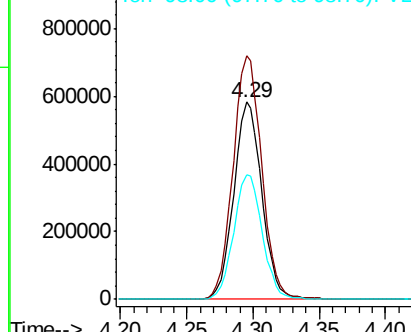
96 100

61 123.6 161.8 242.6#

98 63.2 49.3 73.9



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.543 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Tgt Ion: 84 Resp: 57205

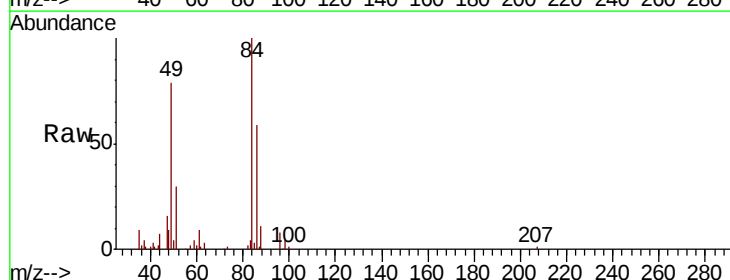
Ion Ratio Lower Upper

84 100

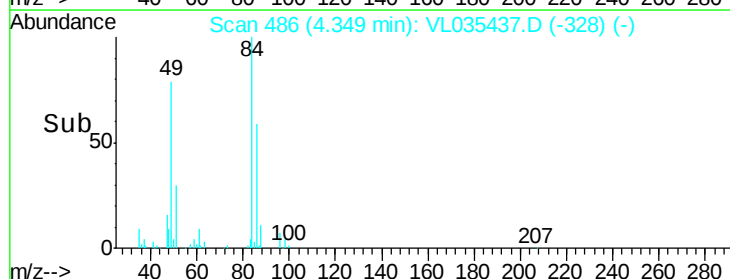
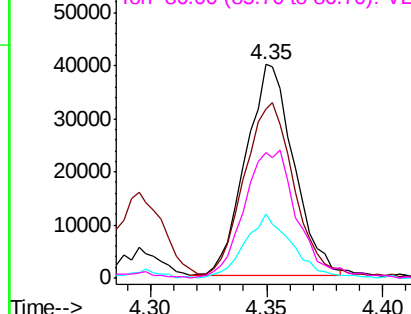
49 75.9 118.6 177.8#

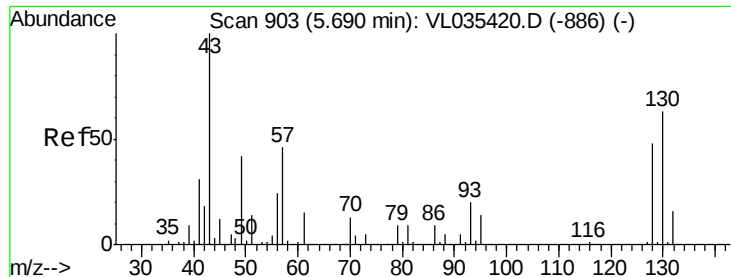
51 29.8 36.4 54.6#

86 59.8 50.2 75.4



Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

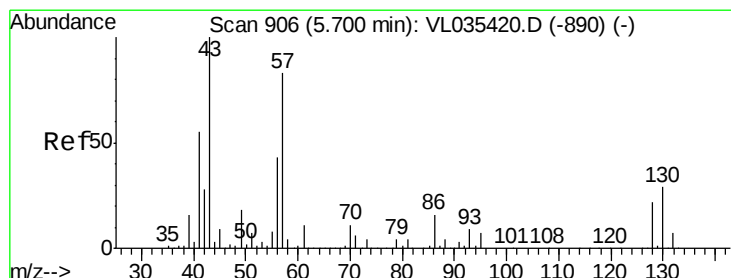
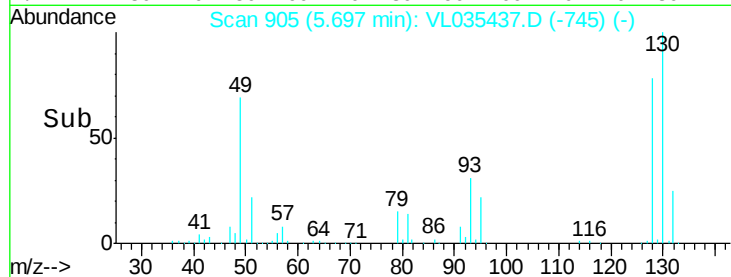
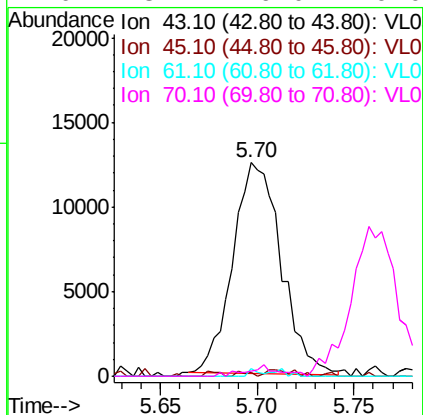
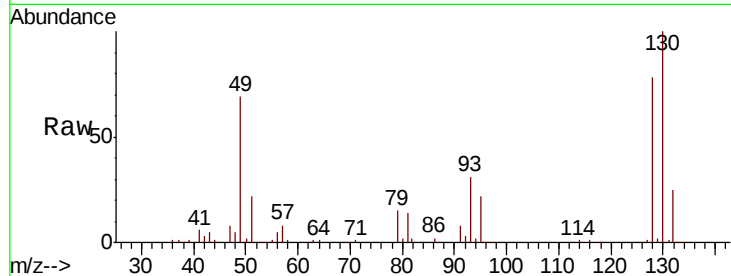




#25
Ethyl Acetate
Concen: 0.085 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL035437.D
Acq: 18 Aug 2020 9:22

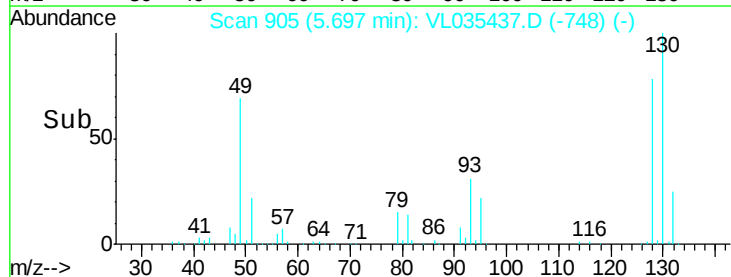
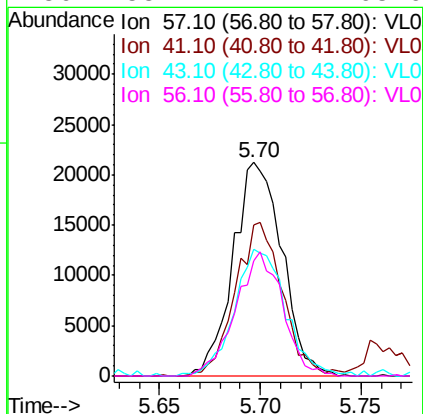
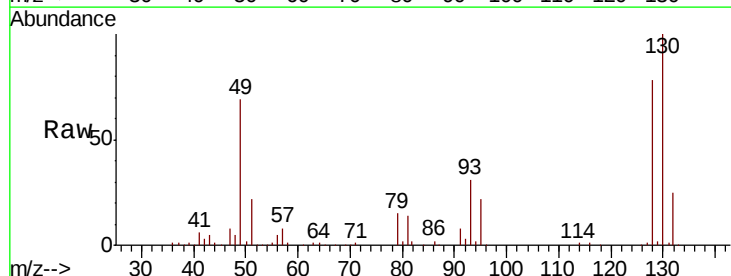
Instrument :
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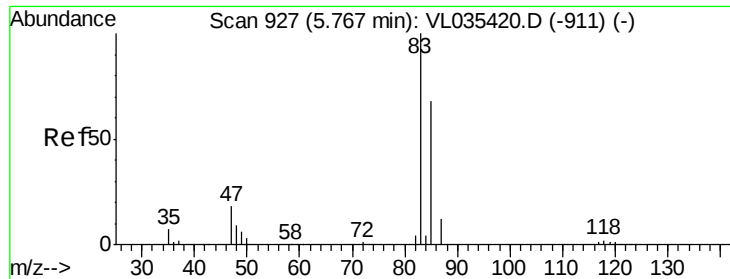
Tot Ion:	43	Resp:	21713
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.3	12.5#
61	1.8	7.6	11.4#
70	3.4	6.0	9.0#



#26
Hexane
Concen: 0.252 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL035437.D
Acq: 18 Aug 2020 9:22

Tgt Ion:	57	Resp:	36119
Ion	Ratio	Lower	Upper
57	100		
41	68.8	75.5	113.3#
43	62.6	181.7	272.5#
56	55.7	42.4	63.6

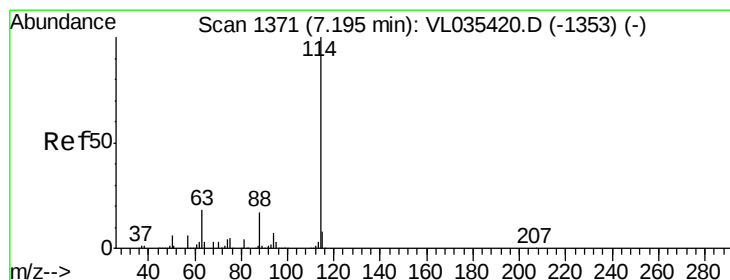
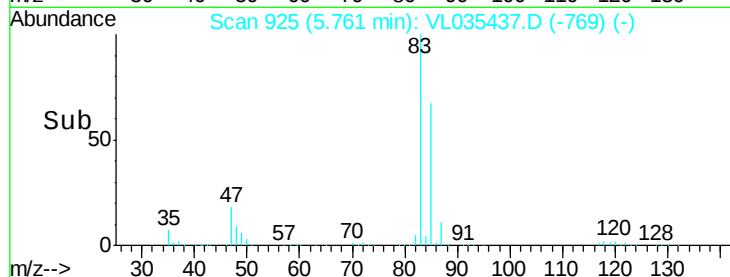
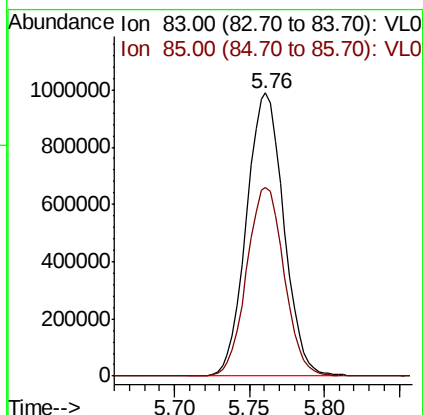
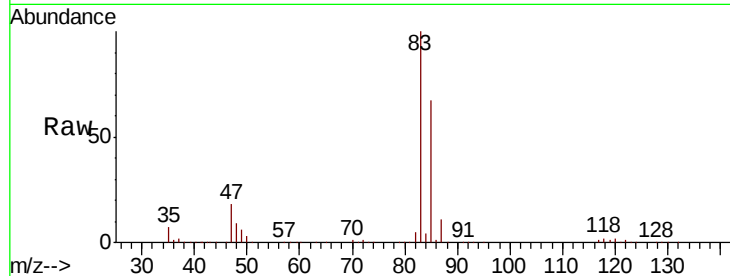




#29
Chloroform
Concen: 5.960 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.00 min
Lab File: VL035437.D
Acq: 18 Aug 2020 9:22

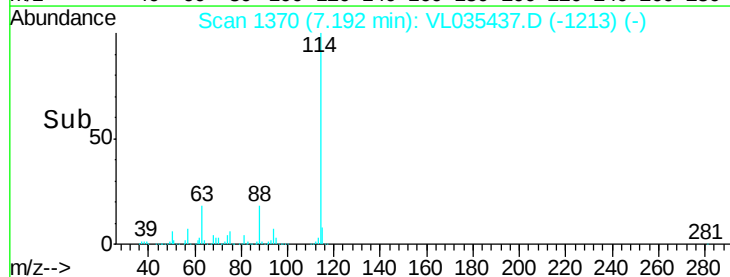
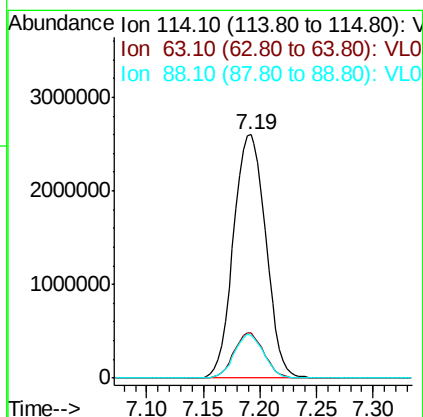
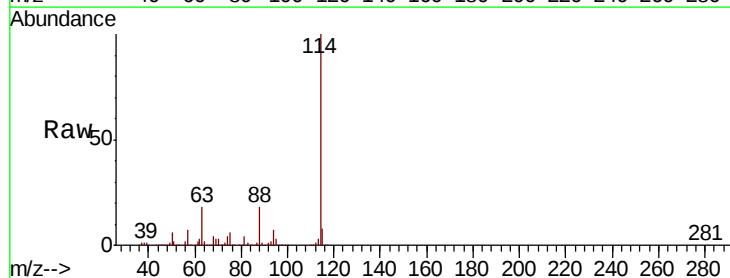
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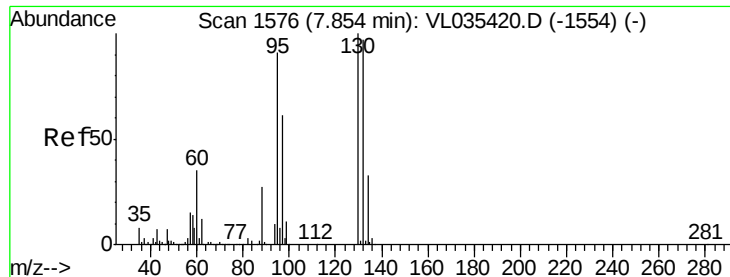
Tot Ion: 83 Resp: 1716883
Ion Ratio Lower Upper
83 100
85 66.7 52.7 79.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.00 min
Lab File: VL035437.D
Acq: 18 Aug 2020 9:22

Tgt Ion: 114 Resp: 5184479
Ion Ratio Lower Upper
114 100
63 17.4 23.1 34.7#
88 16.5 15.9 23.9

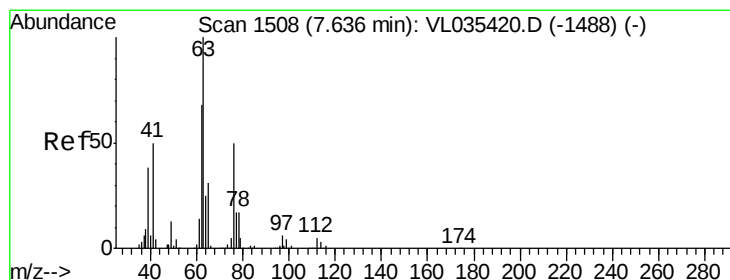
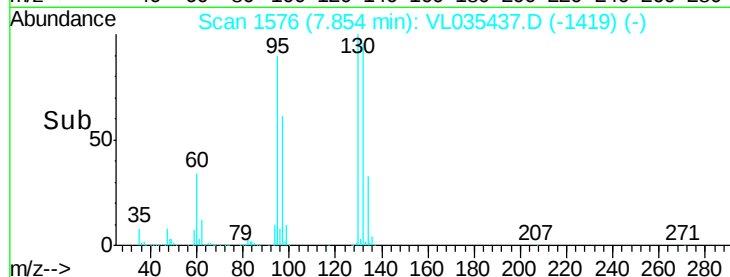
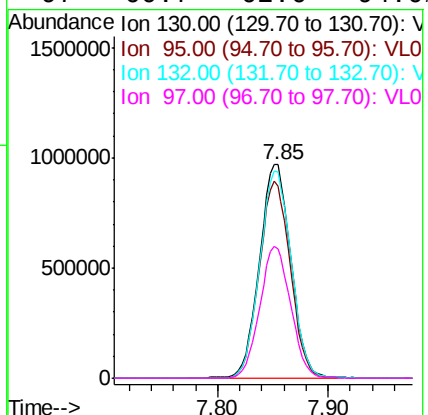
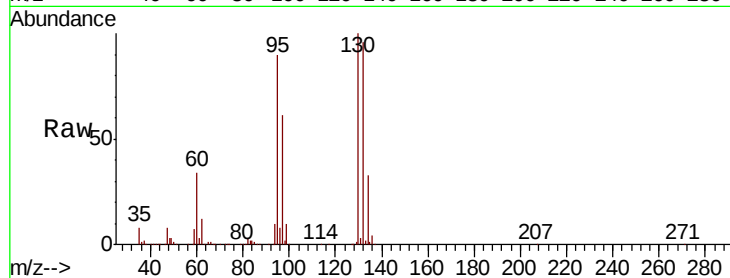




#38
 Trichloroethene
 Concen: 9.071 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VL035437.D
 Acq: 18 Aug 2020 9:22

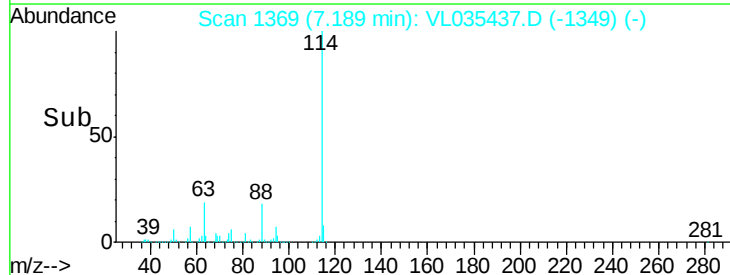
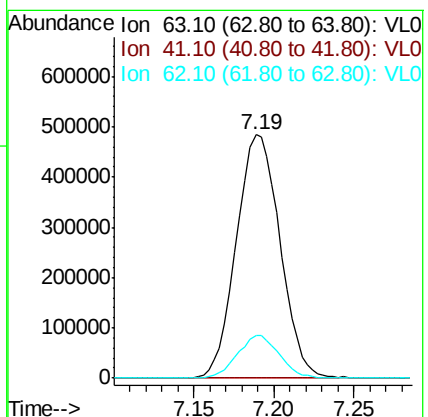
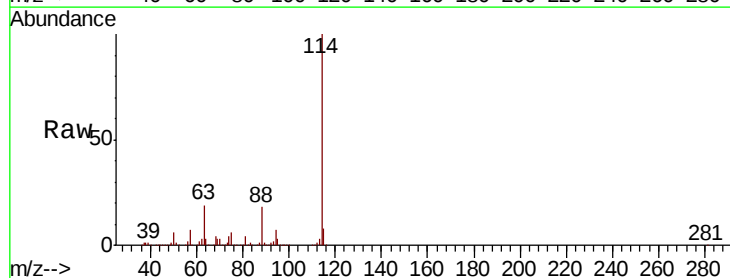
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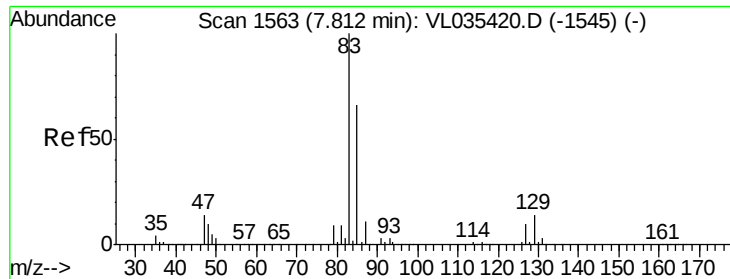
Tot Ion:130 Resp: 1920074
 Ion Ratio Lower Upper
 130 100
 95 90.2 95.8 143.8#
 132 96.5 74.3 111.5
 97 60.7 62.6 94.0#



#39
 1,2-Dichloropropane
 Concen: 7.180 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.44 min
 Lab File: VL035437.D
 Acq: 18 Aug 2020 9:22

Tgt Ion: 63 Resp: 900378
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.1 91.7#
 62 17.4 55.3 82.9#





#42

Bromodichloromethane

Concen: 10.638 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

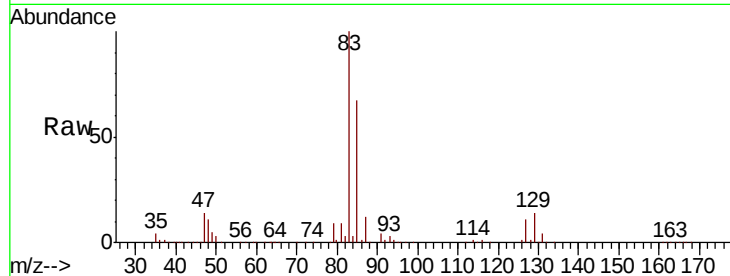
Tot Ion: 83 Resp: 3095523

Ion Ratio Lower Upper

83 100

85 67.4 54.8 82.2

127 10.8 6.1 9.1#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0

7.81

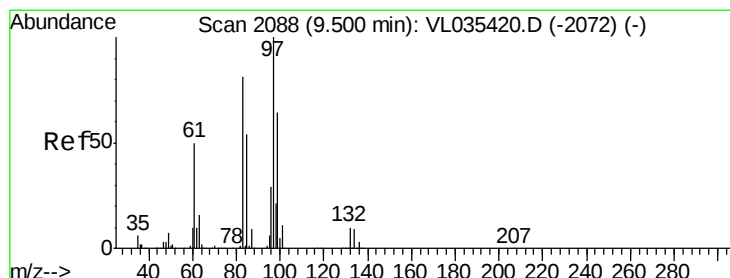
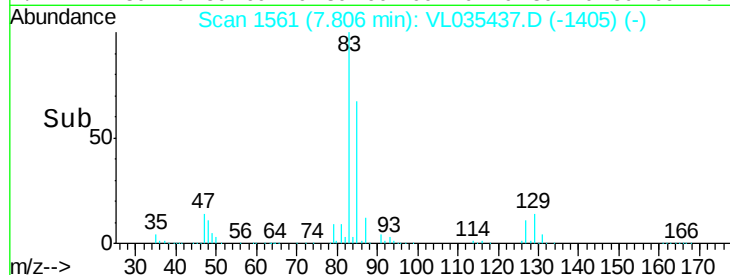
1500000

1000000

500000

0

Time--> 7.70 7.75 7.80 7.85 7.90



#47

1,1,2-Trichloroethane

Concen: 7.032 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Tgt Ion: 97 Resp: 1317158

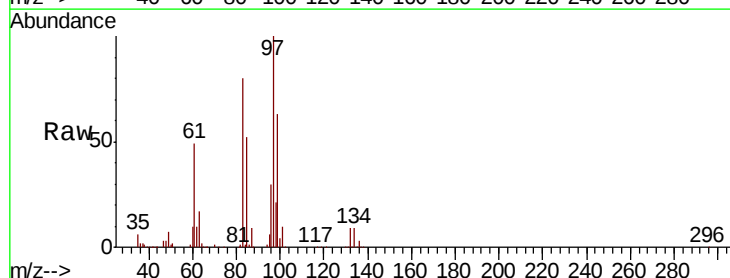
Ion Ratio Lower Upper

97 100

83 80.2 72.1 108.1

85 51.9 46.8 70.2

99 63.1 48.6 73.0



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

9.49

1000000

800000

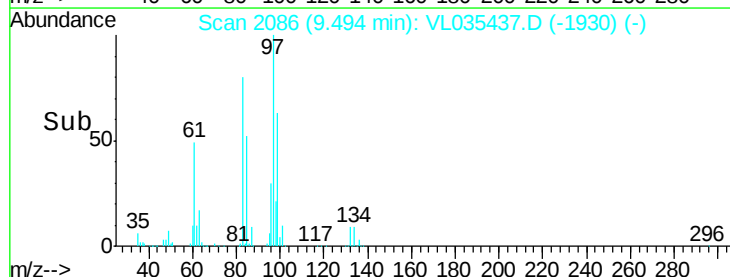
600000

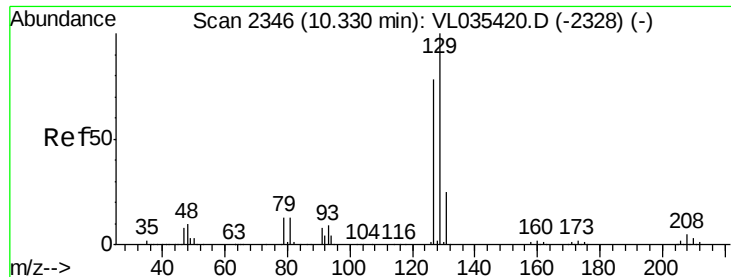
400000

200000

0

Time--> 9.40 9.45 9.50 9.55 9.60

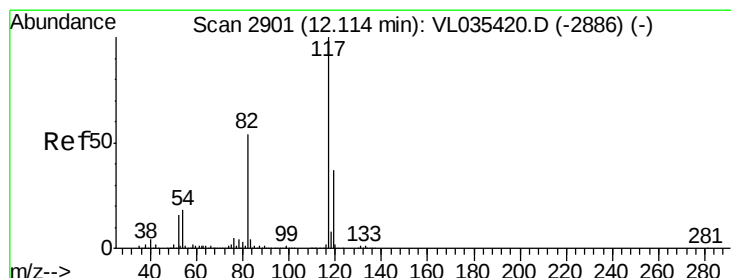
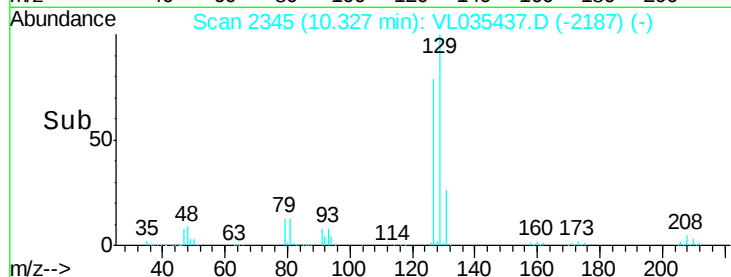
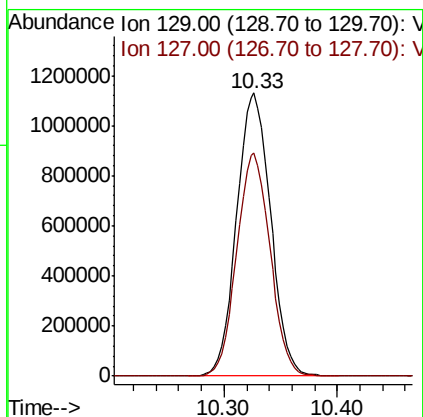
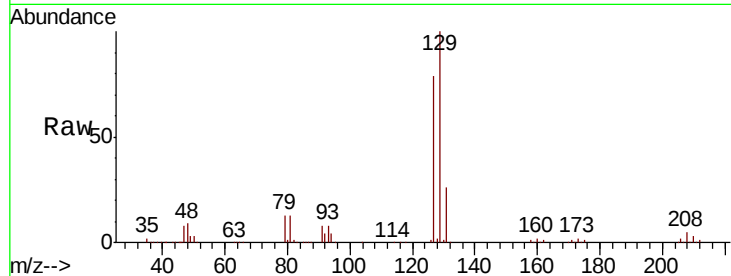




#48
 Dibromochloromethane
 Concen: 7.519 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. 0.01 min
 Lab File: VL035437.D
 Acq: 18 Aug 2020 9:22

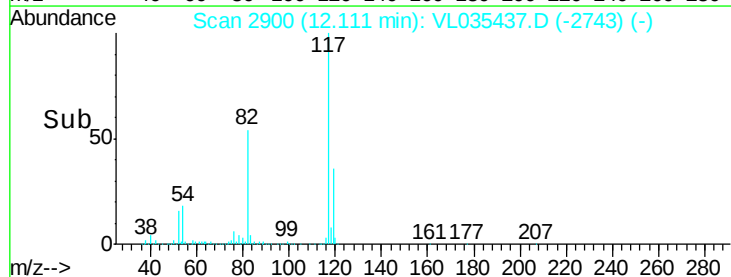
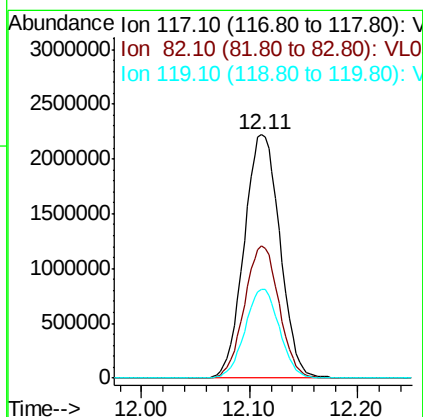
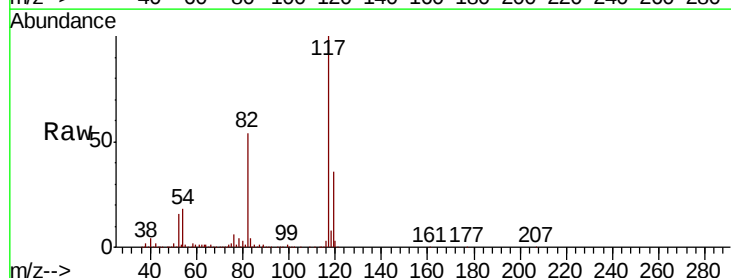
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

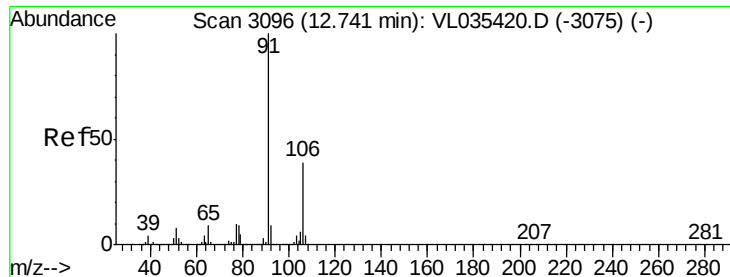
Tot Ion:129 Resp: 2362555
 Ion Ratio Lower Upper
 129 100
 127 77.7 39.5 118.5



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VL035437.D
 Acq: 18 Aug 2020 9:22

Tgt Ion:117 Resp: 5117544
 Ion Ratio Lower Upper
 117 100
 82 52.8 57.4 86.0#
 119 35.3 28.4 42.6





#58

Ethyl Benzene

Concen: 5.724 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

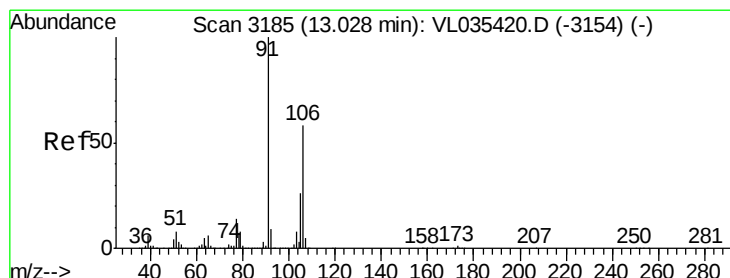
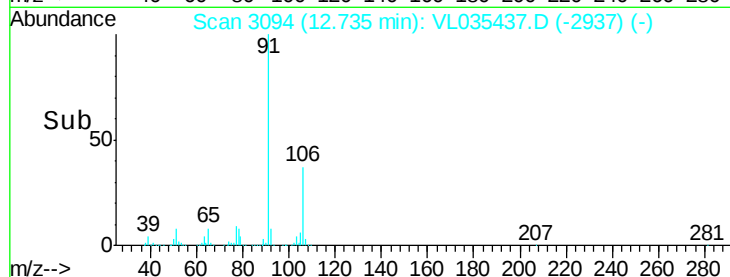
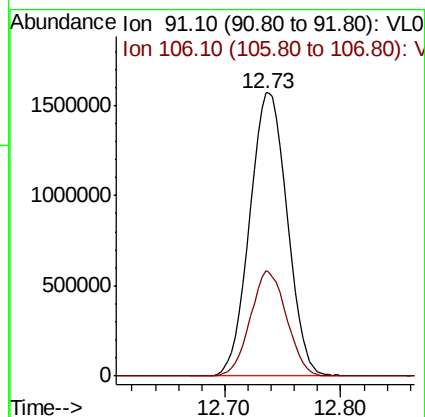
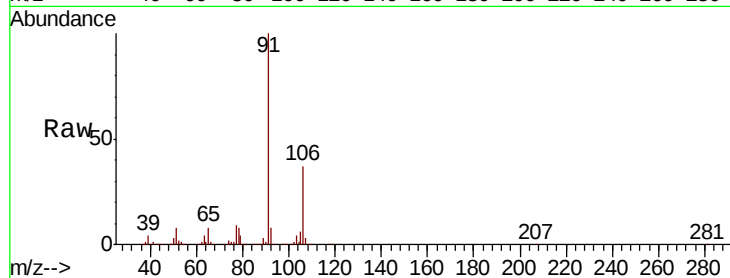
E053-1100DL

Tot Ion: 91 Resp: 3535876

Ion Ratio Lower Upper

91 100

106 37.1 24.1 36.1#



#59

m/p-Xylene

Concen: 6.771 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. -0.29 min

Lab File: VL035437.D

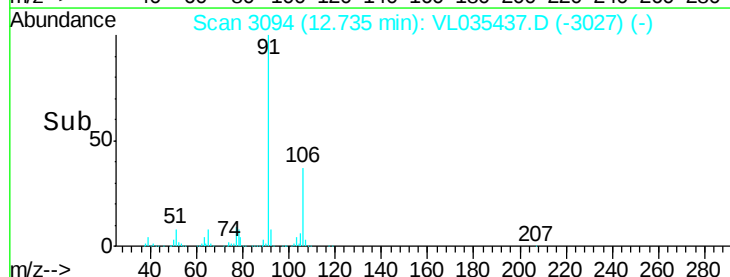
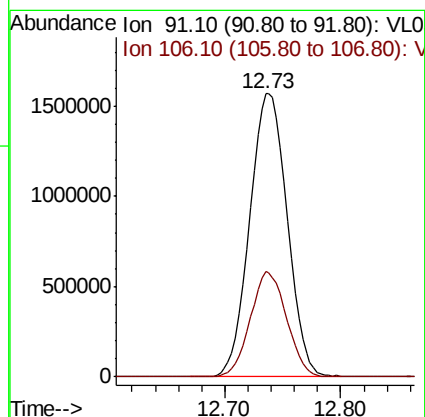
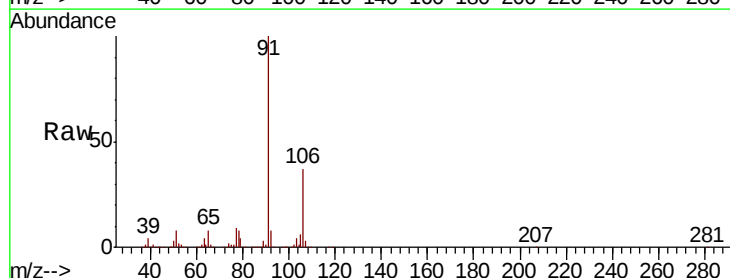
Acq: 18 Aug 2020 9:22

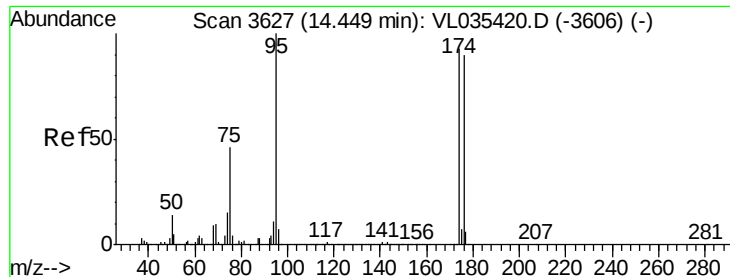
Tgt Ion: 91 Resp: 3535876

Ion Ratio Lower Upper

91 100

106 36.0 34.0 51.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.410 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.01 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

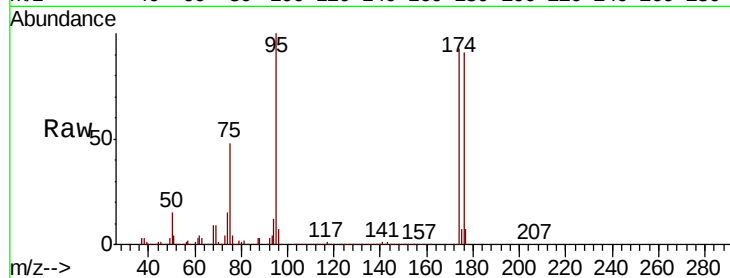
Tot Ion: 95 Resp: 3729620

Ion Ratio Lower Upper

95 100

174 93.9 44.0 66.0#

175 7.0 3.2 4.8#



Abundance Ion 95.10 (94.80 to 95.80): VL035420.D (-3606) (-)

Ion 174.00 (173.70 to 174.70): VL035420.D (-3606) (-)

Ion 175.00 (174.70 to 175.70): VL035420.D (-3606) (-)

14.45

1500000

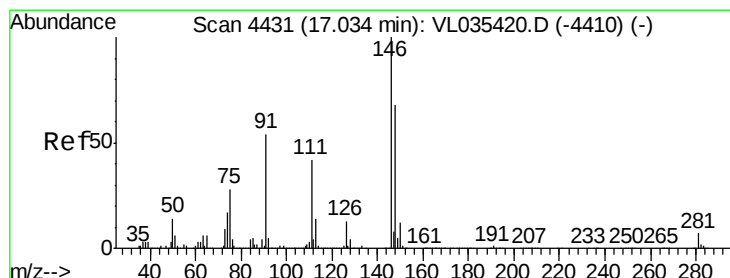
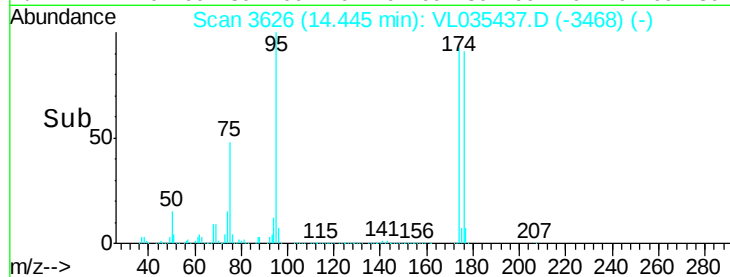
1000000

500000

0

14.40 14.50

Time-->



#75

1,3-Dichlorobenzene

Concen: 8.853 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. 0.15 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

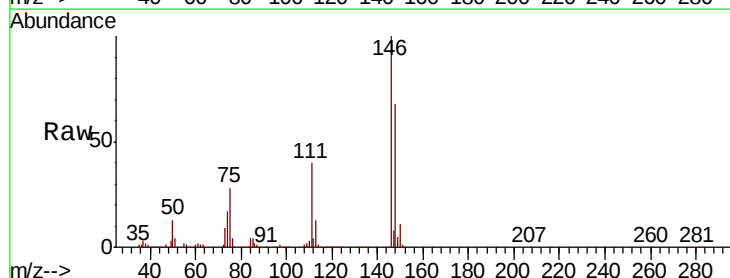
Tgt Ion: 146 Resp: 4604642

Ion Ratio Lower Upper

146 100

111 38.4 25.6 76.8

148 66.6 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): VL035420.D (-4410) (-)

Ion 111.10 (110.80 to 111.80): VL035420.D (-4410) (-)

Ion 148.00 (147.70 to 148.70): VL035420.D (-4410) (-)

17.17

2500000

2000000

1500000

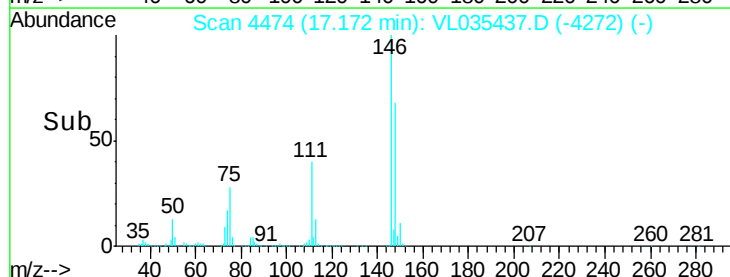
1000000

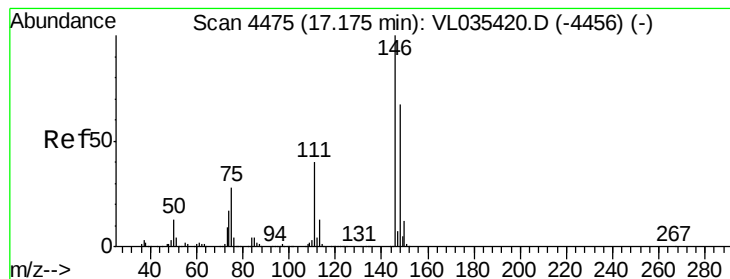
500000

0

17.10 17.20 17.30

Time-->





#76

1,4-Dichlorobenzene

Concen: 8.983 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. 0.01 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

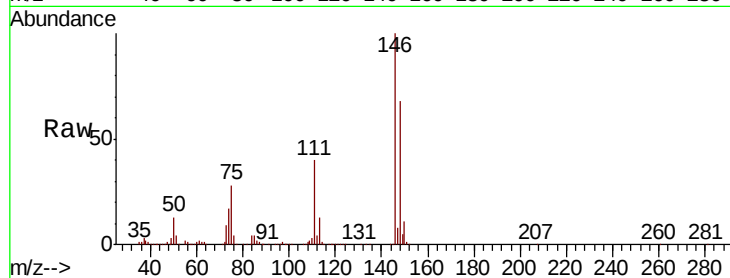
Tot Ion:146 Resp: 4604642

Ion Ratio Lower Upper

146 100

111 38.5 24.8 74.4

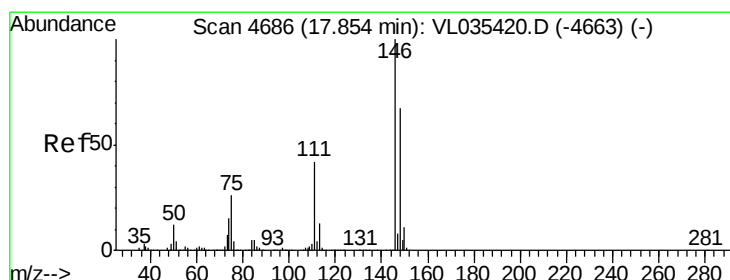
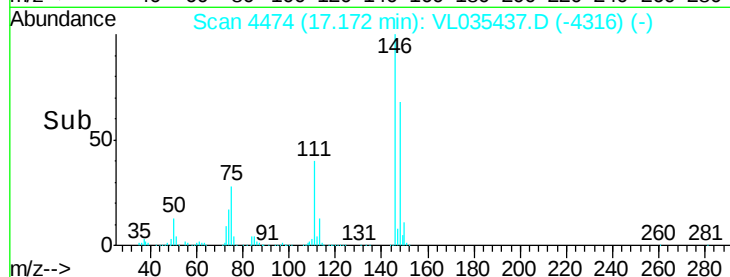
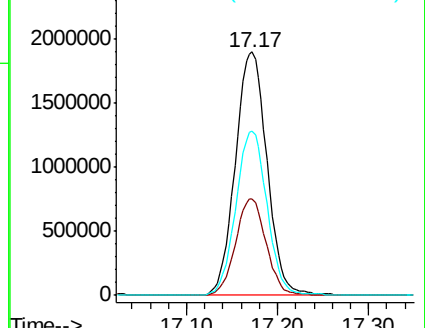
148 66.6 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 8.718 ppbv

RT: 17.85 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

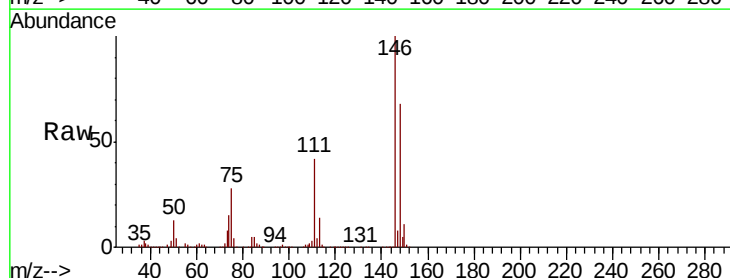
Tgt Ion:146 Resp: 4441180

Ion Ratio Lower Upper

146 100

111 40.7 26.3 78.9

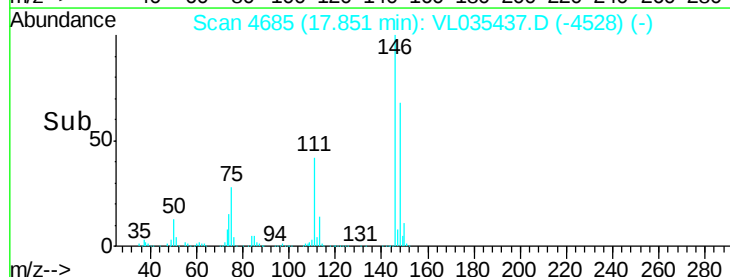
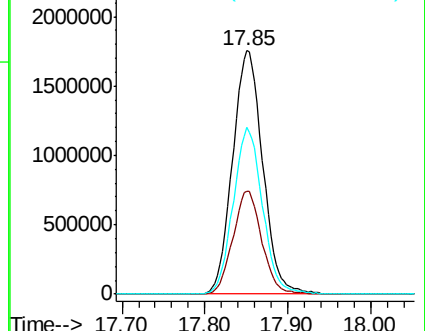
148 66.4 32.0 96.0

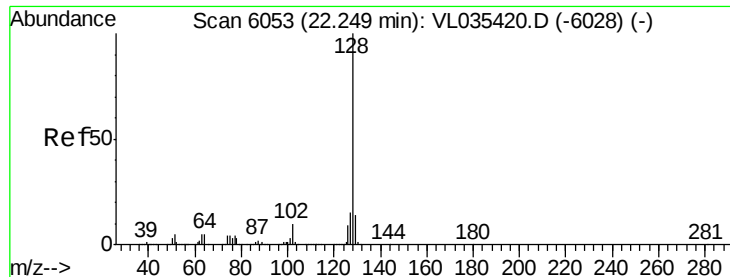


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.037 ppbv

RT: 22.25 min Scan# 6053

Delta R.T. 0.01 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

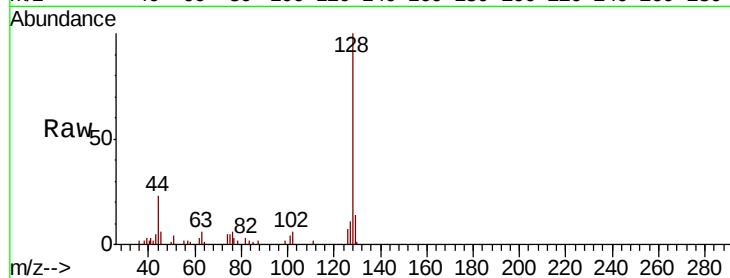
Tot Ion:128 Resp: 35518

Ion Ratio Lower Upper

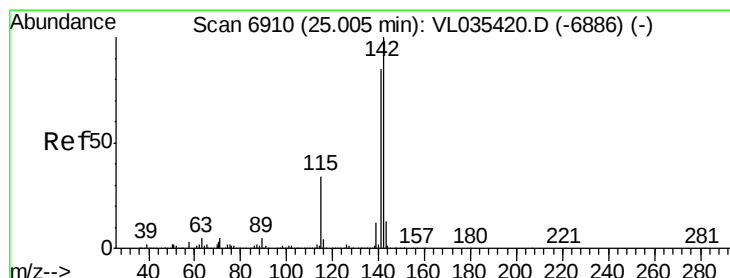
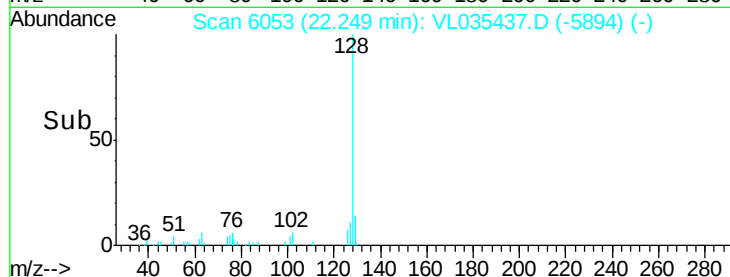
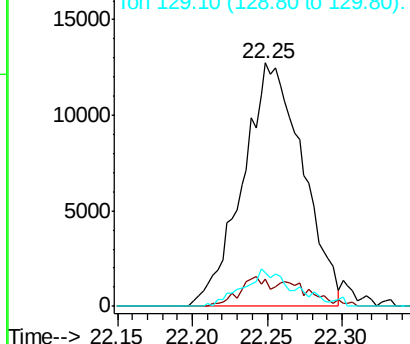
128 100

127 11.1 11.4 17.0#

129 13.9 9.5 14.3



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.048 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. 0.01 min

Lab File: VL035437.D

Acq: 18 Aug 2020 9:22

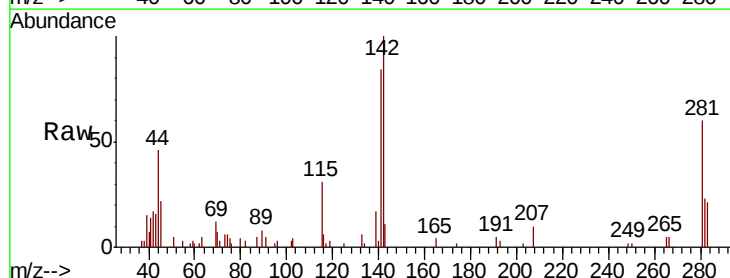
Tgt Ion:142 Resp: 18636

Ion Ratio Lower Upper

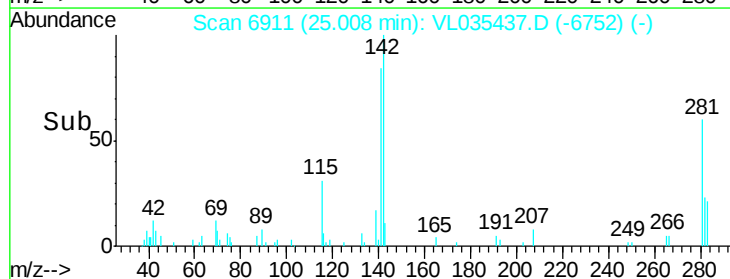
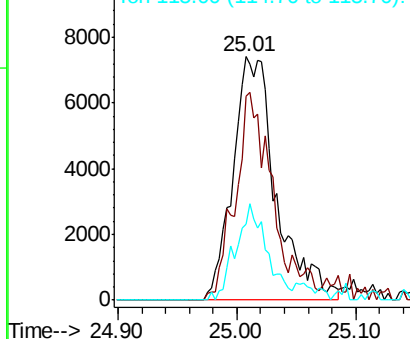
142 100

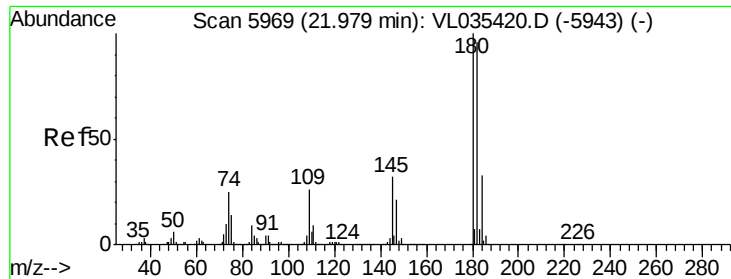
141 73.9 67.1 100.7

115 33.2 36.1 54.1#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

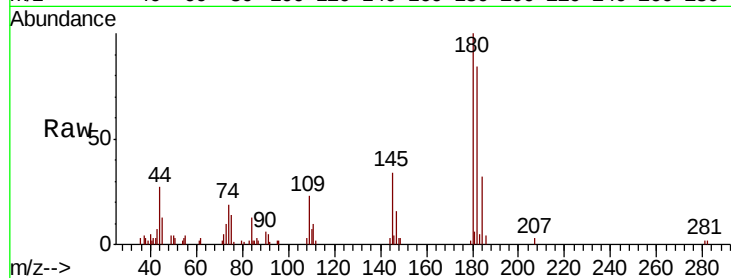




#81
 1,2,4-Trichlorobenzene
 Concen: 0.036 ppbv
 RT: 21.98 min Scan# 5969
 Delta R.T. 0.01 min
 Lab File: VL035437.D
 Acq: 18 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.6	115.0#
184	44.7	24.8	37.2#



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

