

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037213.D
 Acq On : 17 Jun 2021 22:36
 Operator : SY/AP
 Sample : M2742-04DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Jun 18 01:25:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1398030	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4071841	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3548814	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2568128	9.55	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

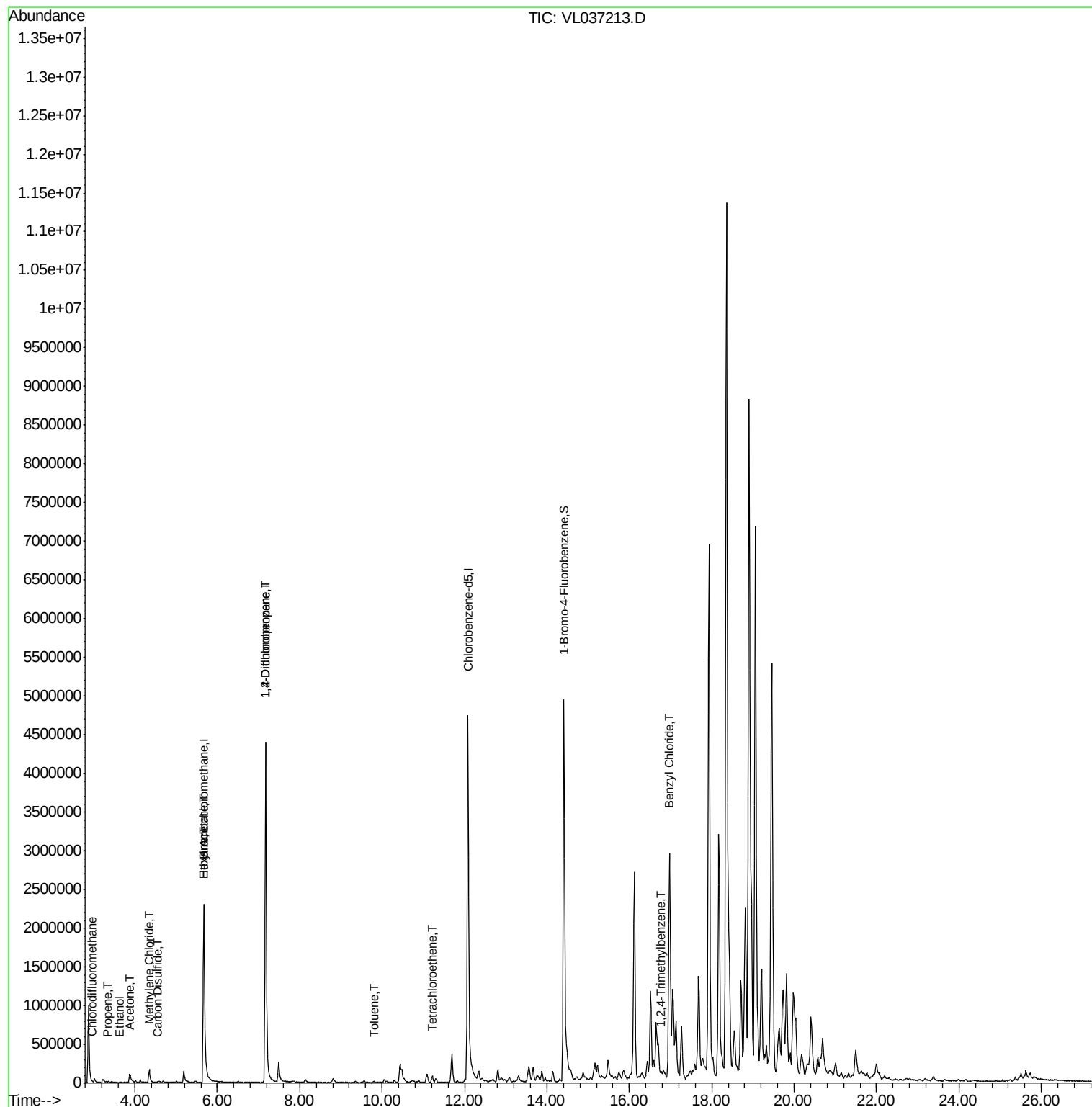
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	16256	0.060	ppbv #	69
9) Propene	3.35	41	4529	0.052	ppbv	90
13) Ethanol	3.61	45	691	0.051	ppbv #	7
15) Acetone	3.87	43	142567	0.904	ppbv #	51
20) Methylene Chloride	4.34	84	28479	0.302	ppbv	96
25) Ethyl Acetate	5.68	43	72968	0.214	ppbv #	77
26) Hexane	5.68	57	113296	0.657	ppbv #	47
27) Carbon Disulfide	4.56	76	14140	0.084	ppbv #	79
39) 1,2-Dichloropropane	7.17	63	980934	8.017	ppbv #	23
52) Tetrachloroethene	11.22	164	10946	0.072	ppbv #	75
53) Toluene	9.81	91	8733	0.022	ppbv #	62
66) Benzyl Chloride	16.98	91	793	0.038	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.75	105	11730	0.026	ppbv #	63

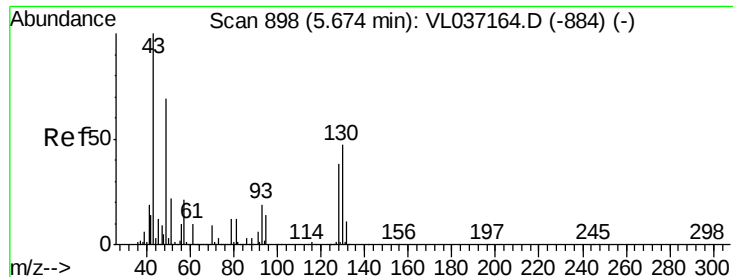
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037213.D

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MSVOA_L

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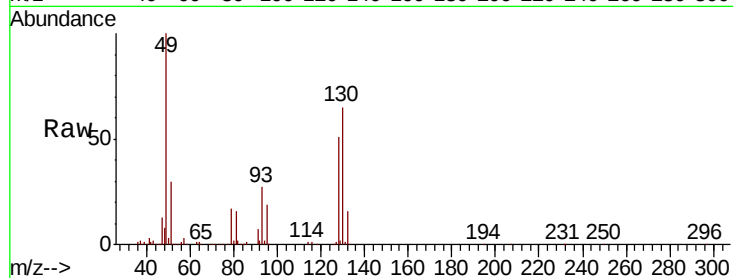
Tot Ion: 49 Resp: 1398030

Ion Ratio Lower Upper

49 100

128 54.5 29.3 88.0

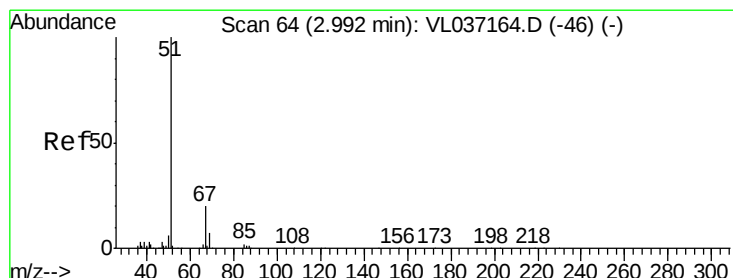
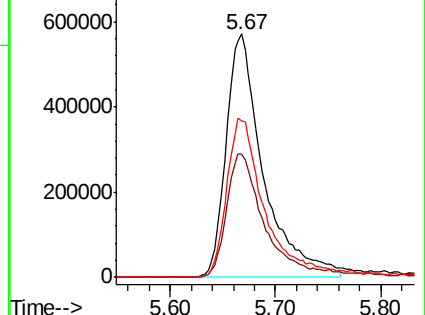
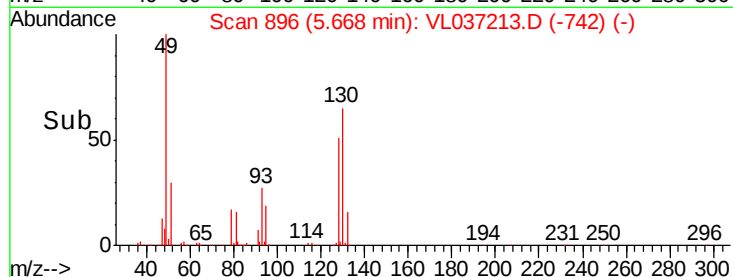
130 70.4 35.9 107.8



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



#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL037213.D

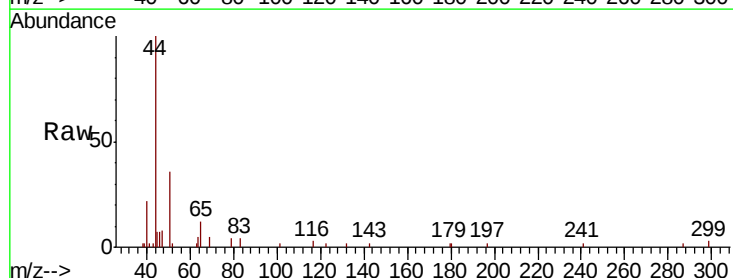
Acq: 17 Jun 2021 22:36

Tgt Ion: 51 Resp: 16256

Ion Ratio Lower Upper

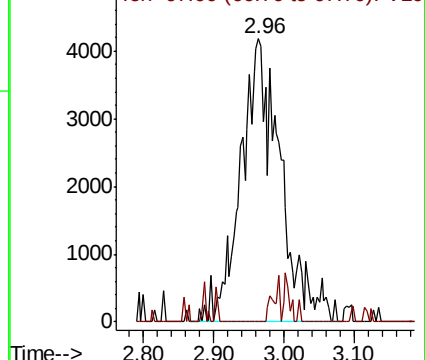
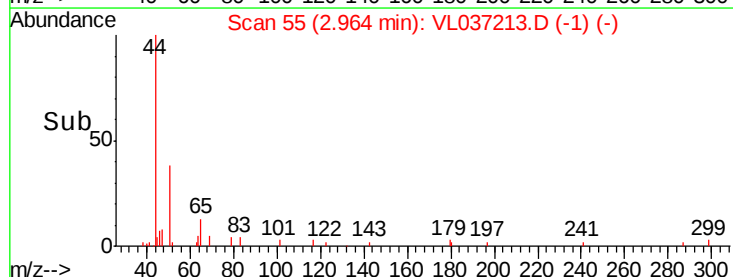
51 100

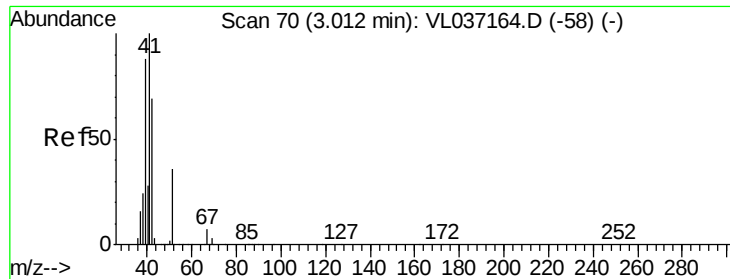
67 5.3 15.8 23.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.052 ppbv

RT: 3.35 min Scan# 176

Delta R.T. 0.34 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampleId :

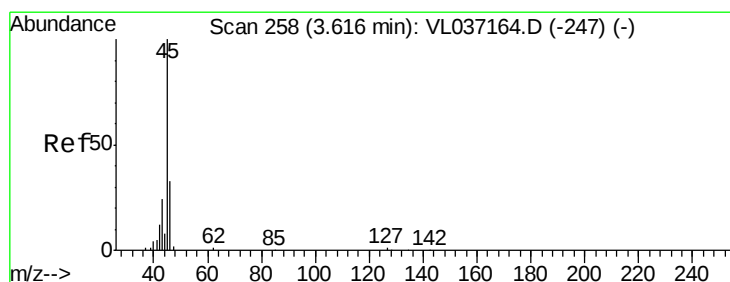
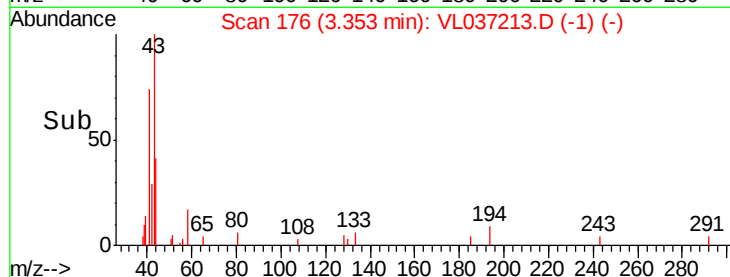
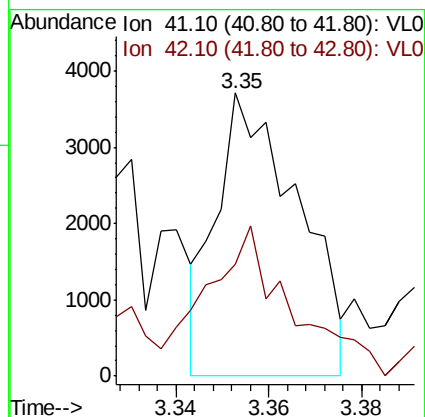
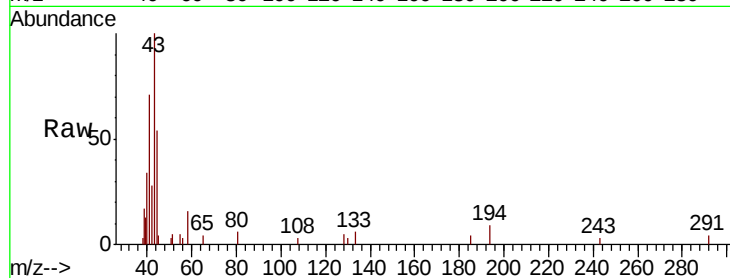
SV2DL

Tot Ion: 41 Resp: 4529

Ion Ratio Lower Upper

41 100

42 76.5 54.5 81.7



#13

Ethanol

Concen: 0.051 ppbv

RT: 3.61 min Scan# 257

Delta R.T. -0.00 min

Lab File: VL037213.D

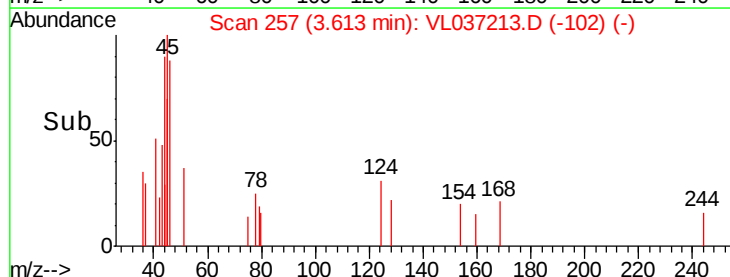
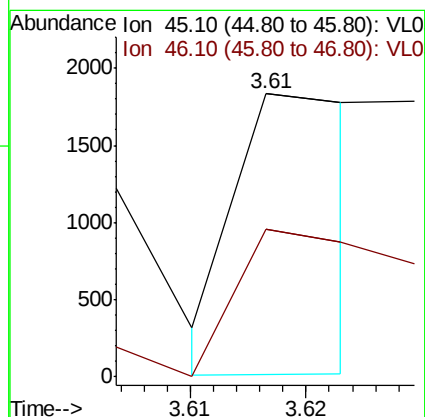
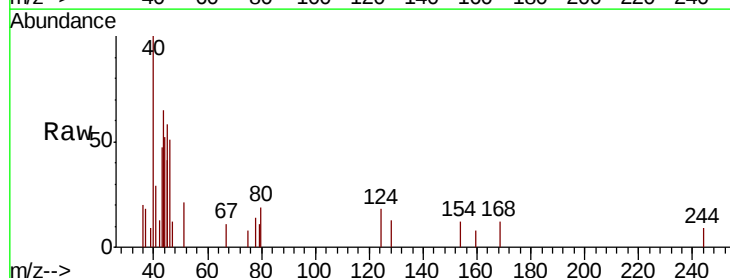
Acq: 17 Jun 2021 22:36

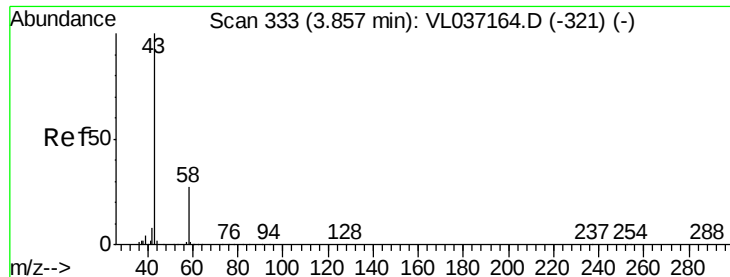
Tgt Ion: 45 Resp: 691

Ion Ratio Lower Upper

45 100

46 0.0 34.2 137.0#

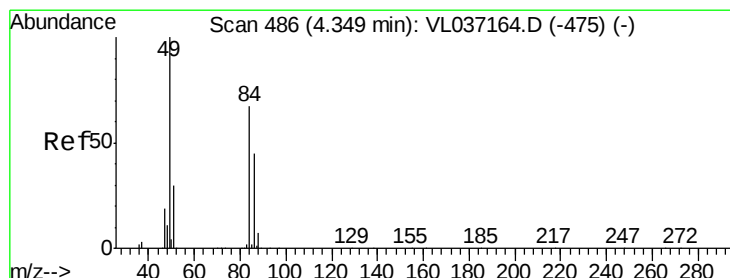
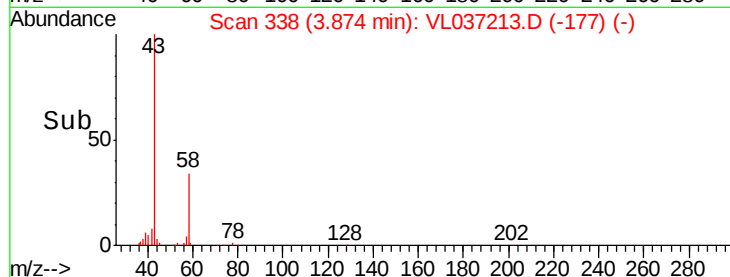
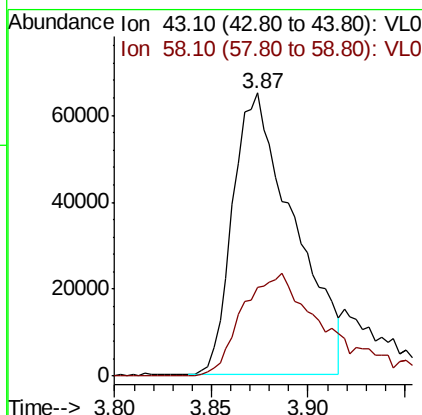
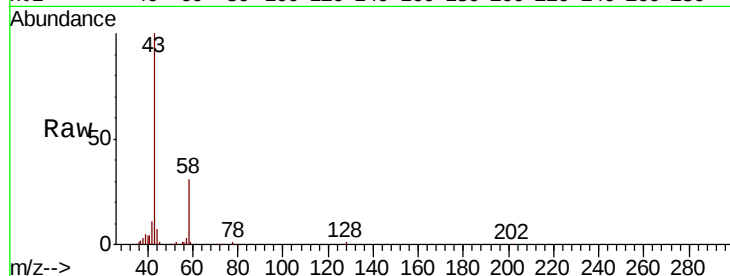




#15
Acetone
Concen: 0.904 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.02 min
Lab File: VL037213.D
Acq: 17 Jun 2021 22:36

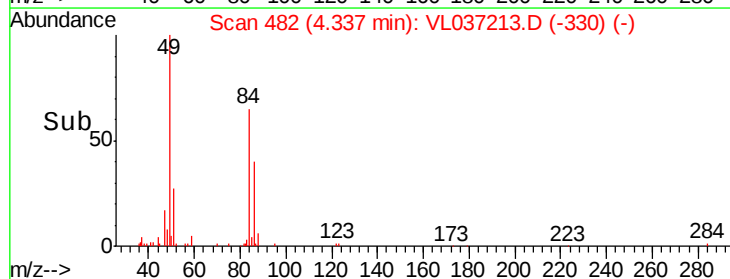
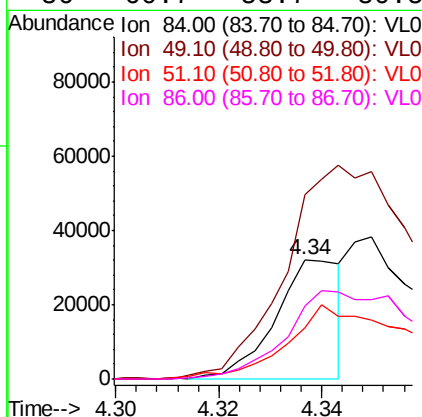
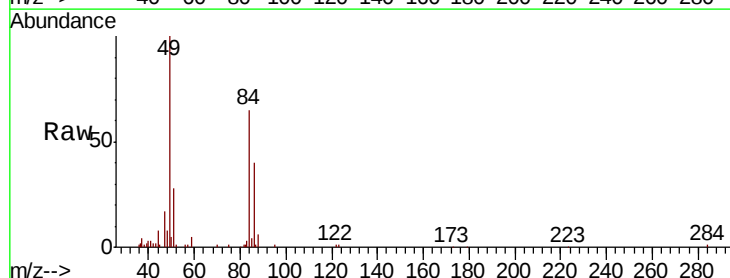
Instrument :
MSVOA_L
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SV2DL

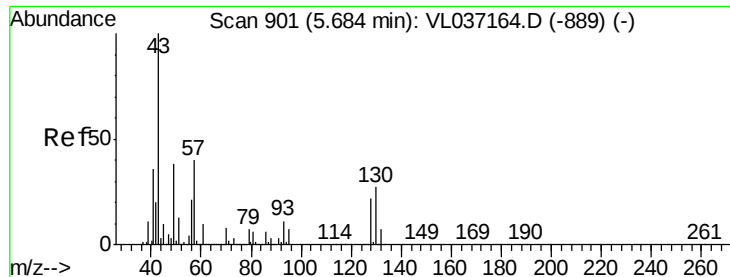
Tot Ion: 43 Resp: 142567
Ion Ratio Lower Upper
43 100
58 55.9 23.7 35.5#



#20
Methylene Chloride
Concen: 0.302 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037213.D
Acq: 17 Jun 2021 22:36

Tgt Ion: 84 Resp: 28479
Ion Ratio Lower Upper
84 100
49 151.2 119.7 179.5
51 40.4 36.1 54.1
86 60.7 53.7 80.5

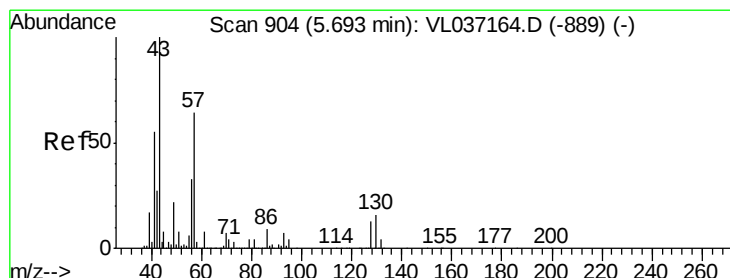
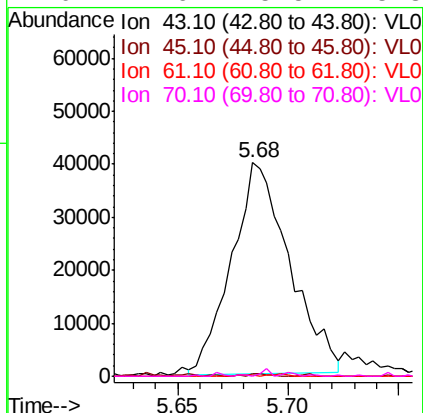
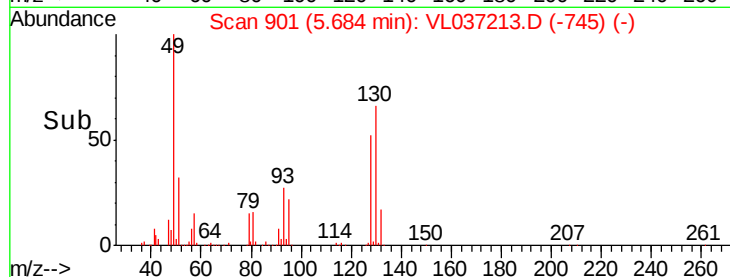
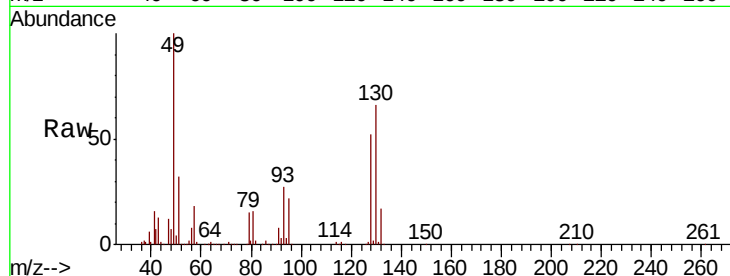




#25
Ethyl Acetate
Concen: 0.214 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037213.D
Acq: 17 Jun 2021 22:36

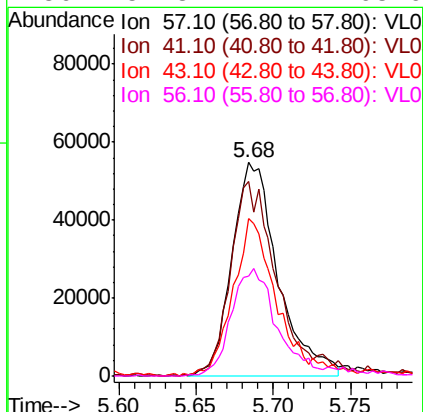
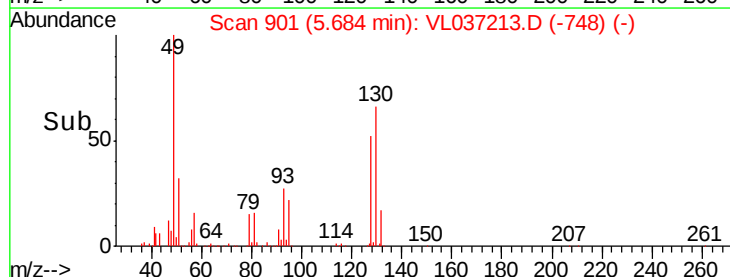
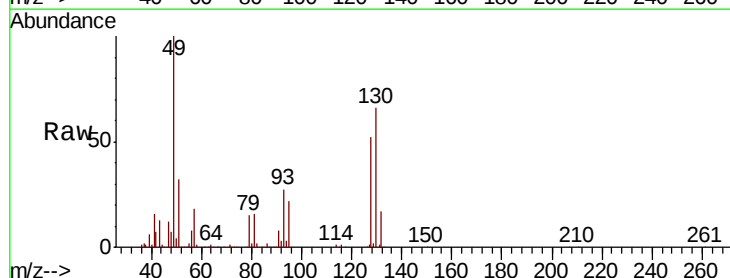
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

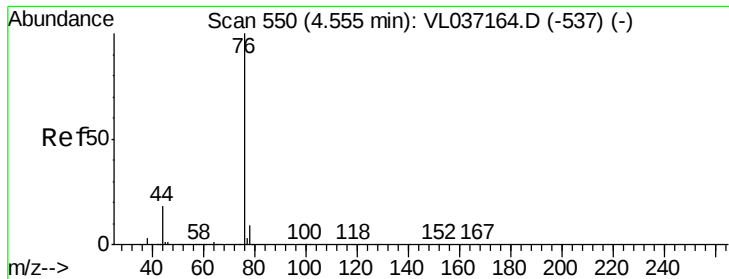
Tot Ion:	43	Resp:	72968
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.0	12.0#
61	0.6	8.1	12.1#
70	1.6	5.5	8.3#



#26
Hexane
Concen: 0.657 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037213.D
Acq: 17 Jun 2021 22:36

Tgt Ion:	57	Resp:	113296
Ion	Ratio	Lower	Upper
57	100		
41	93.2	73.5	110.3
43	74.8	170.7	256.1#
56	52.8	42.4	63.6





#27

Carbon Disulfide

Concen: 0.084 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

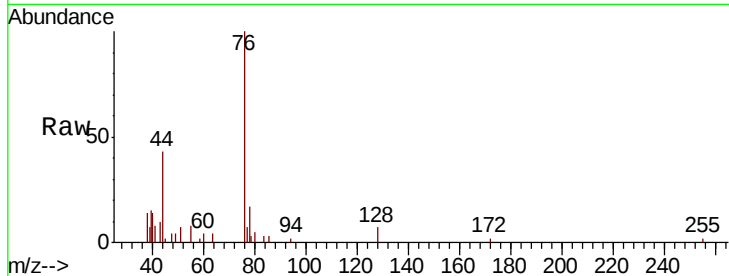
Tot Ion: 76 Resp: 14140

Ion Ratio Lower Upper

76 100

44 29.2 15.4 23.2#

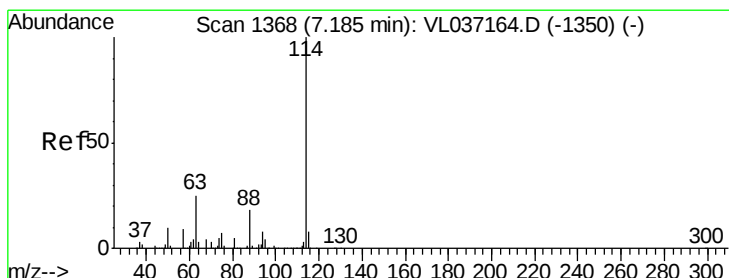
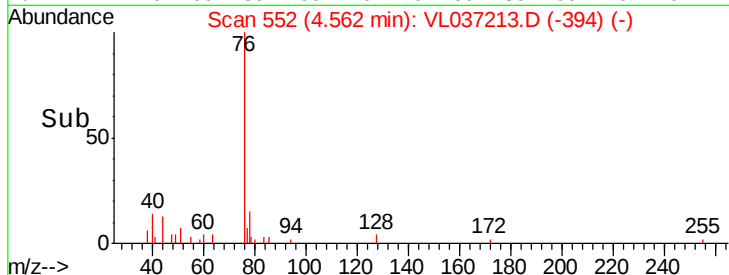
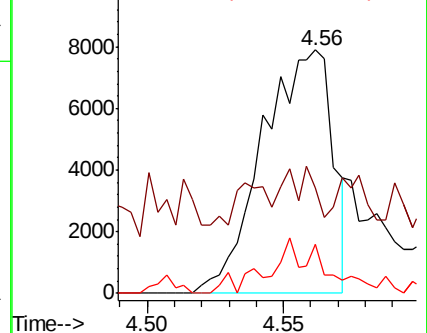
78 17.0 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

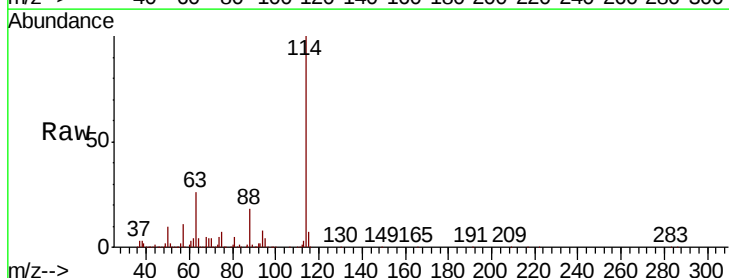
Tgt Ion: 114 Resp: 4071841

Ion Ratio Lower Upper

114 100

63 24.6 19.6 29.4

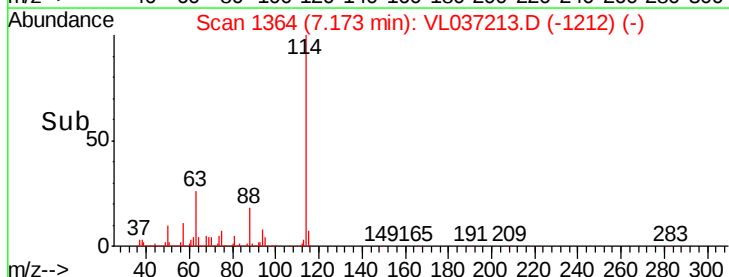
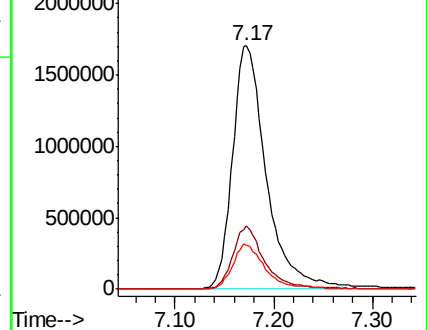
88 18.0 14.2 21.2

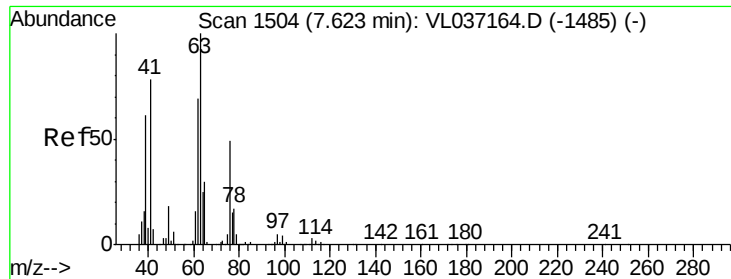


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 8.017 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

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SV2DL

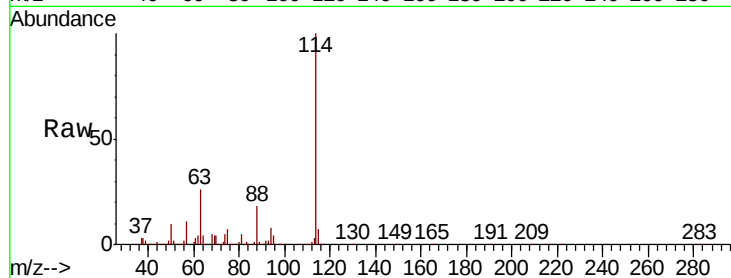
Tot Ion: 63 Resp: 980934

Ion Ratio Lower Upper

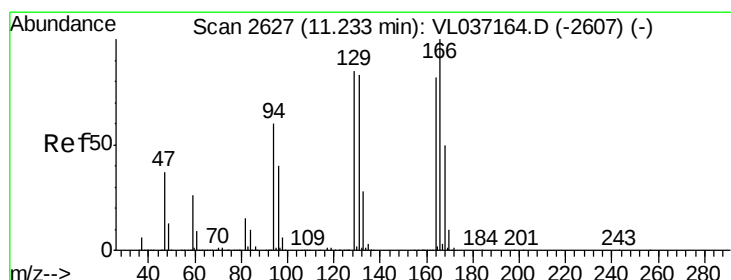
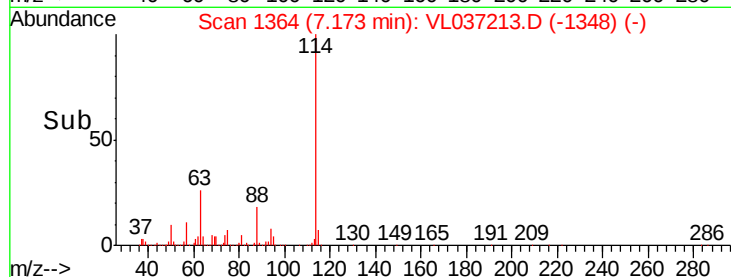
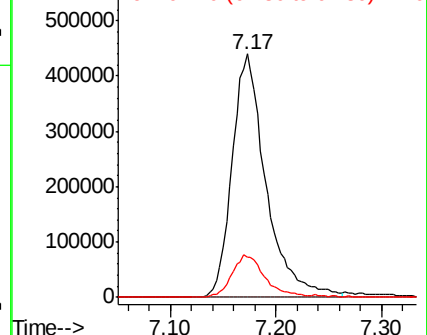
63 100

41 0.3 62.0 93.0#

62 16.7 54.9 82.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 0.072 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

Tgt Ion:164 Resp: 10946

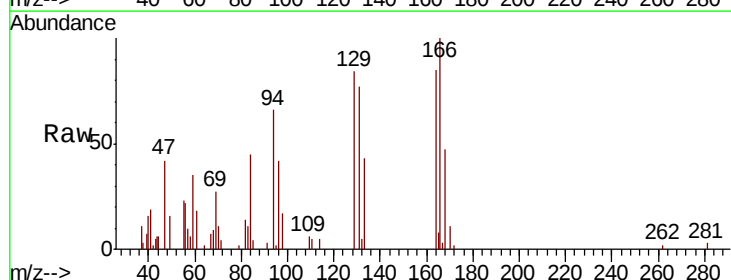
Ion Ratio Lower Upper

164 100

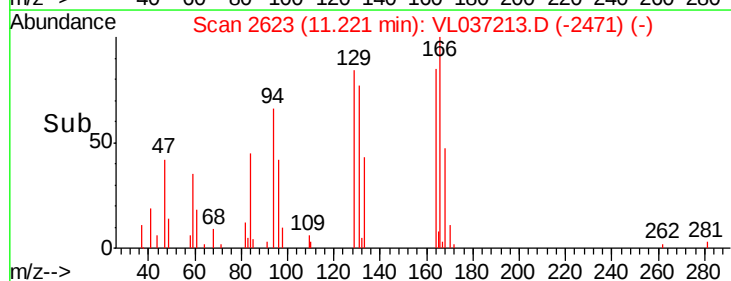
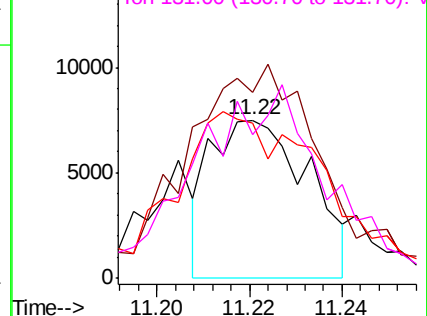
166 110.2 97.6 146.4

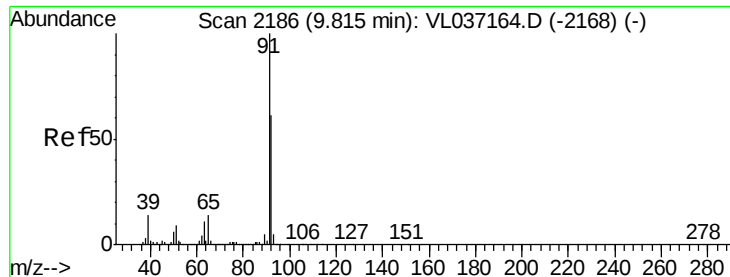
129 88.9 82.9 124.3

131 47.7 80.6 120.8#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.022 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

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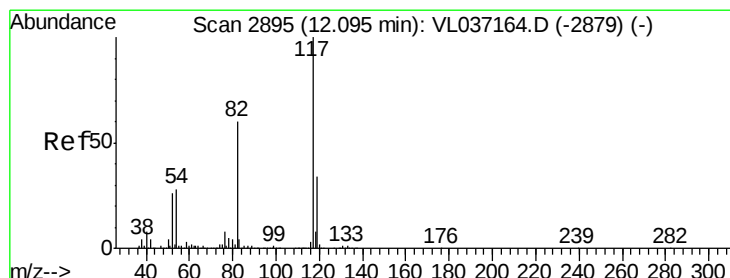
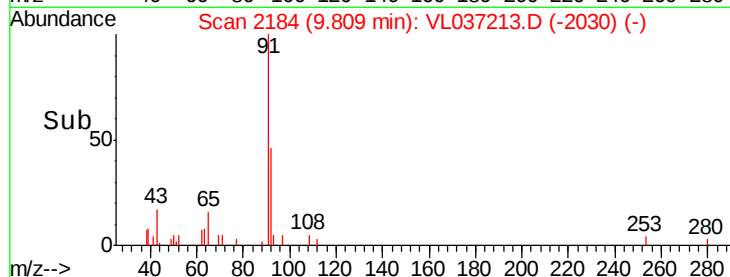
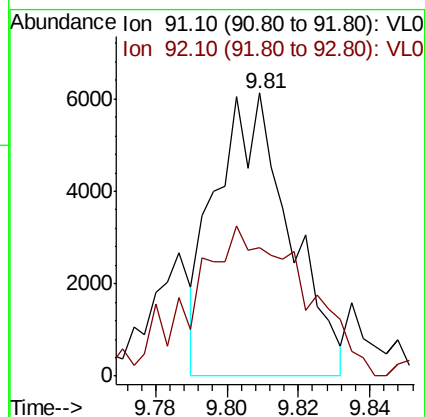
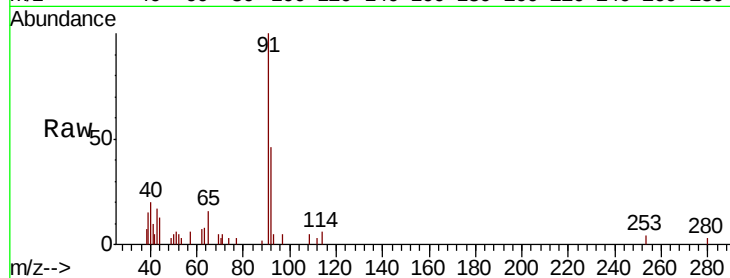
SV2DL

Tot Ion: 91 Resp: 8733

Ion Ratio Lower Upper

91 100

92 89.3 48.3 72.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

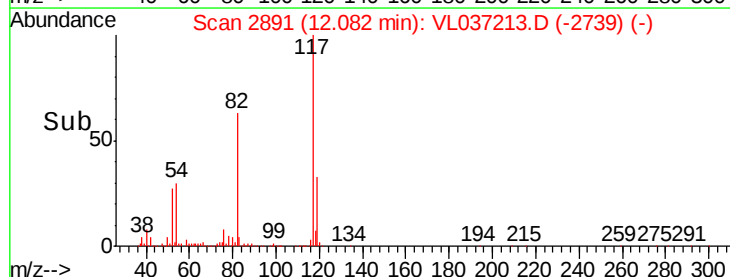
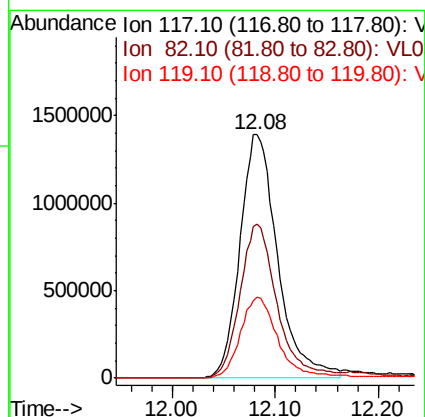
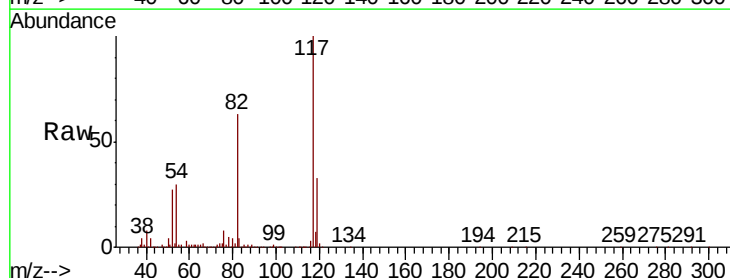
Tgt Ion: 117 Resp: 3548814

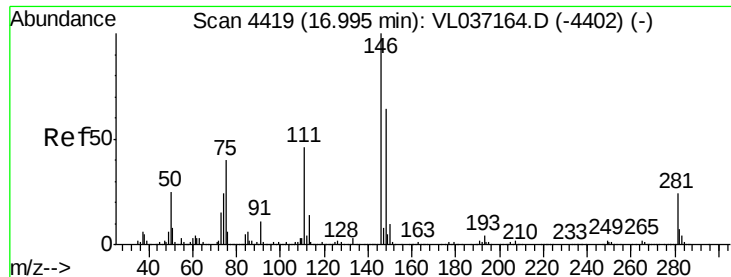
Ion Ratio Lower Upper

117 100

82 66.3 51.7 77.5

119 34.3 47.6 71.4#





#66

Benzyl Chloride

Concen: 0.038 ppbv

RT: 16.98 min Scan# 4414

Delta R.T. -0.02 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

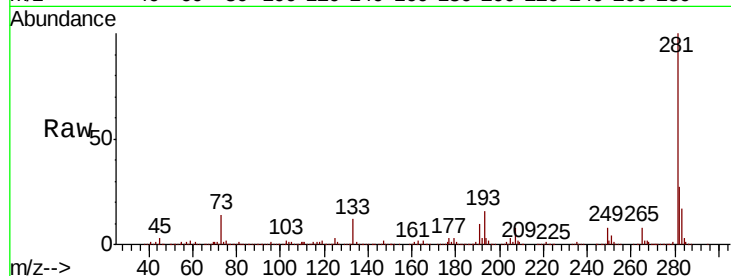
Tot Ion: 91 Resp: 793

Ion Ratio Lower Upper

91 100

126 1321.3 15.5 23.3#

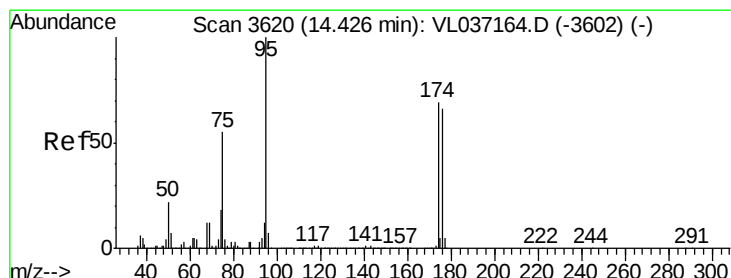
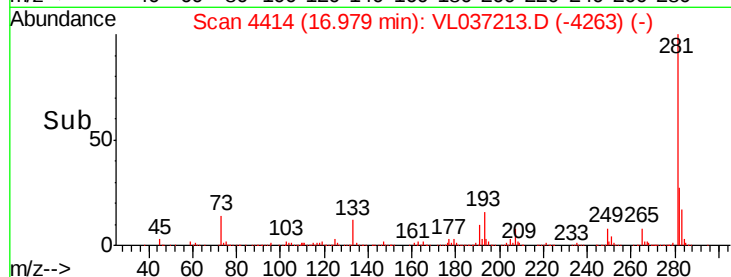
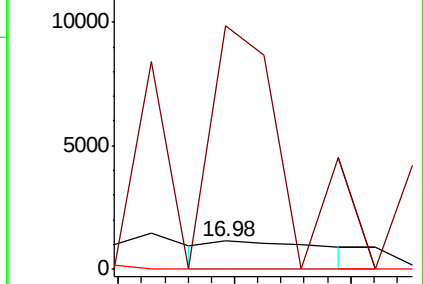
128 0.0 5.7 8.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.550 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL037213.D

Acq: 17 Jun 2021 22:36

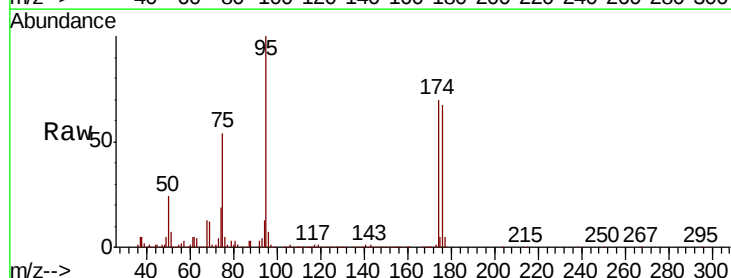
Tgt Ion: 95 Resp: 2568128

Ion Ratio Lower Upper

95 100

174 73.5 57.0 85.4

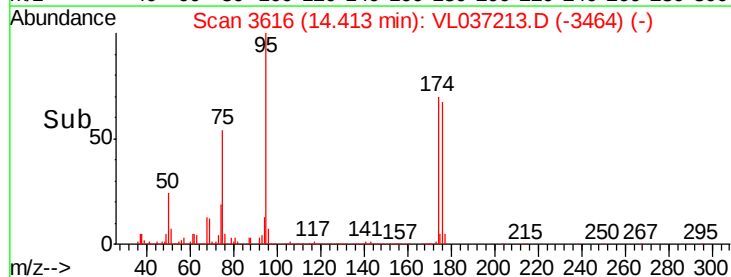
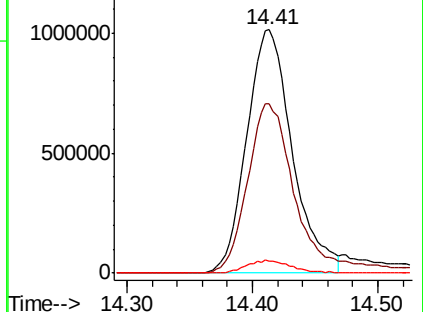
175 5.2 4.4 6.6

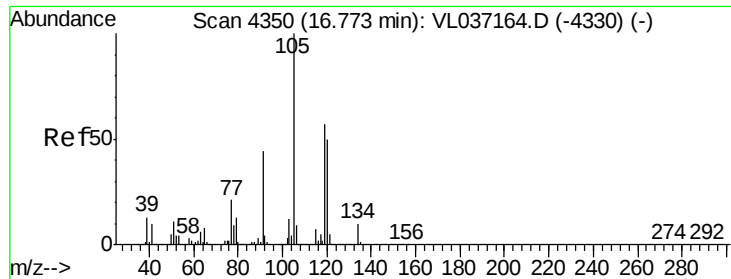


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.026 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.02 min
 Lab File: VL037213.D
 Acq: 17 Jun 2021 22:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion:	105	Resp:	11730
Ion	Ratio	Lower	Upper
105	100		
120	37.0	39.8	59.8#
91	10.7	37.0	55.4#
77	1.0	17.0	25.4#

