

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037707.D
 Acq On : 28 Sep 2021 18:09
 Operator : SY/AP
 Sample : M3896-01DL2 800X
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 29 03:41:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1318289	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3950021	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3437068	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2362170	9.51	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

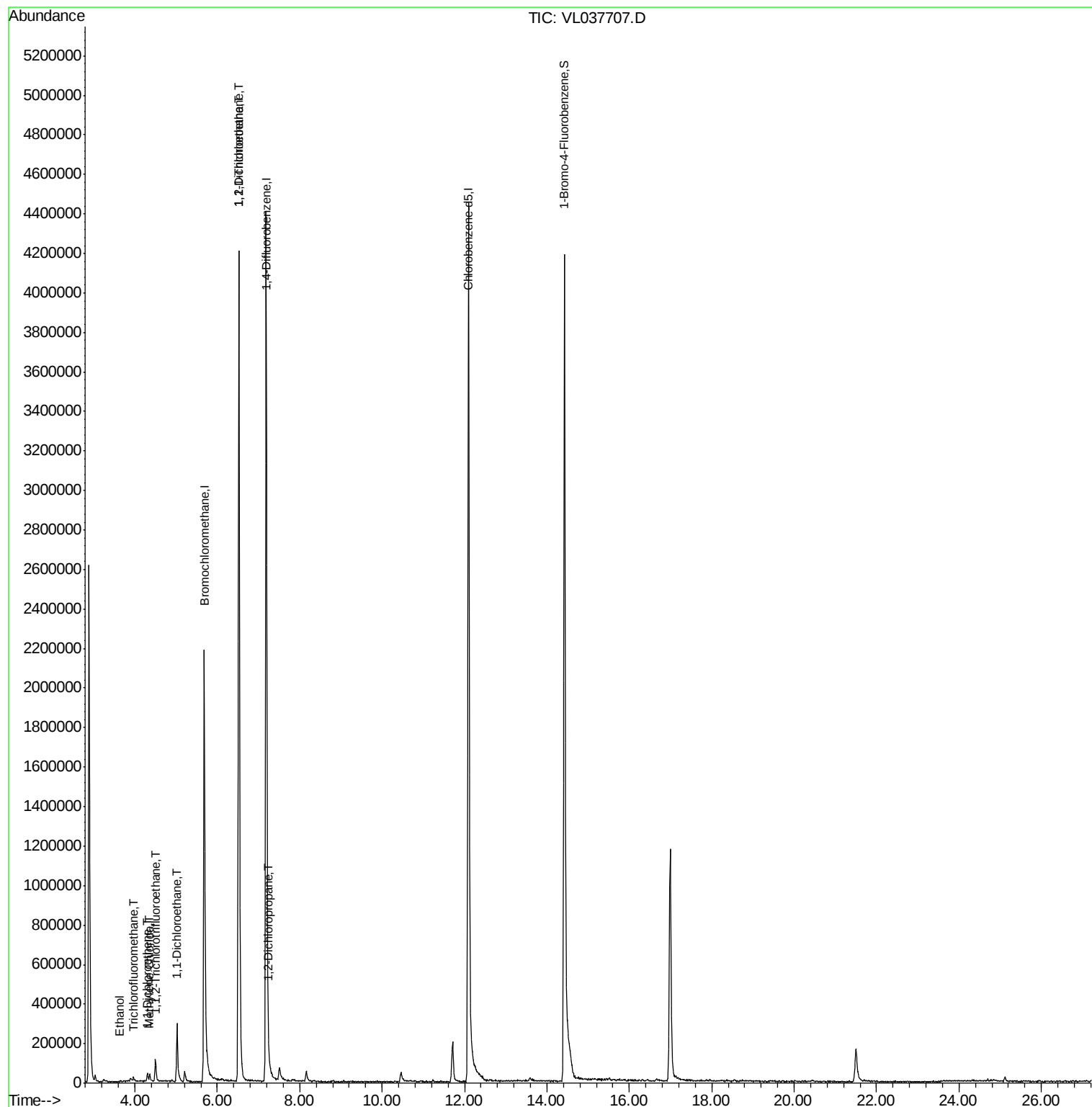
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
11) Trichlorofluoromethane	3.96	101	6481	0.034	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	25127	0.178	ppbv #	21
13) Ethanol	3.64	45	868	0.101	ppbv #	1
18) 1,1-Dichloroethene	4.30	96	8473	0.129	ppbv #	60
20) Methylene Chloride	4.36	84	7529	0.115	ppbv #	79
24) 1,1-Dichloroethane	5.02	63	280978	2.069	ppbv	100
32) 1,1,1-Trichloroethane	6.52	97	2981062	13.915	ppbv	99
37) 1,2-Dichloroethane	6.52	62	190782	1.178	ppbv #	1
39) 1,2-Dichloropropane	7.25	63	10235	0.081	ppbv #	23

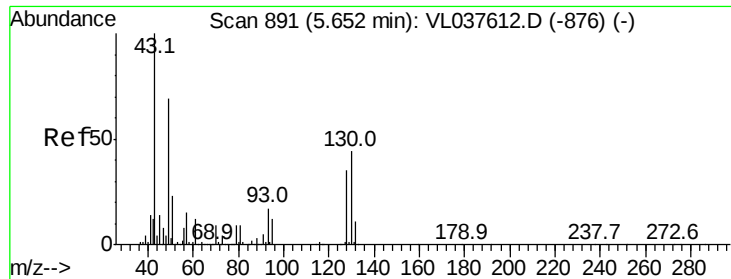
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 28 Sep 2021 18:09 ClientSampleId:

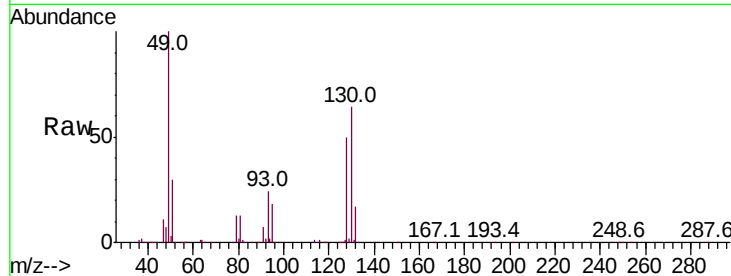
Tot Ion: 49 Resp: 1318289

Ion Ratio Lower Upper

49 100

128 55.0 27.9 83.6

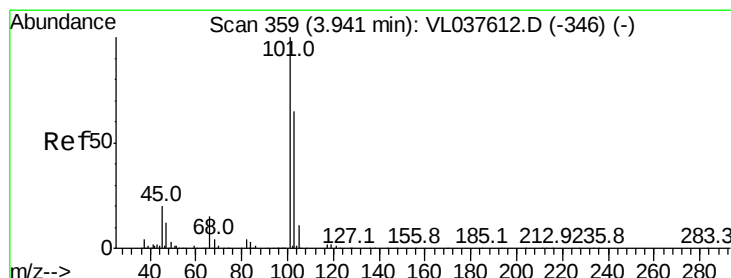
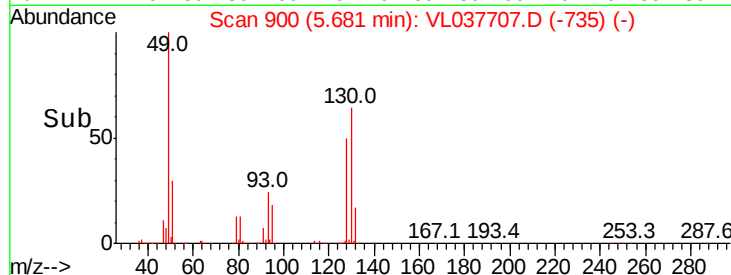
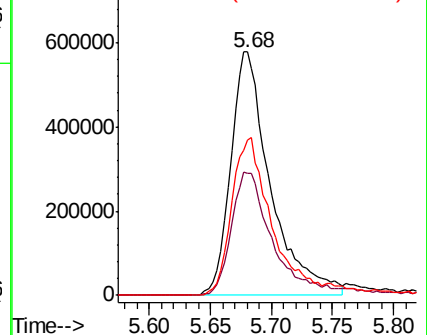
130 68.2 33.9 101.7



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



#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL037707.D

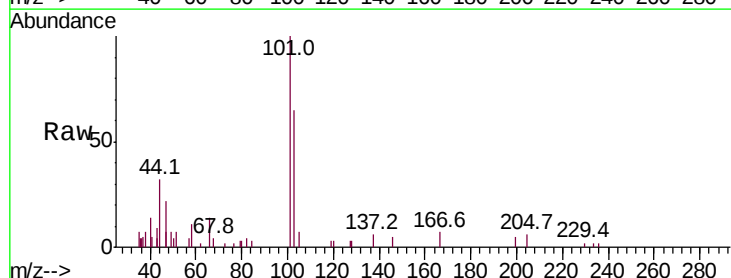
Acq: 28 Sep 2021 18:09

Tgt Ion:101 Resp: 6481

Ion Ratio Lower Upper

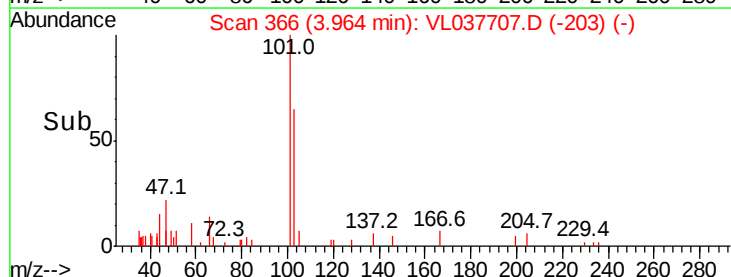
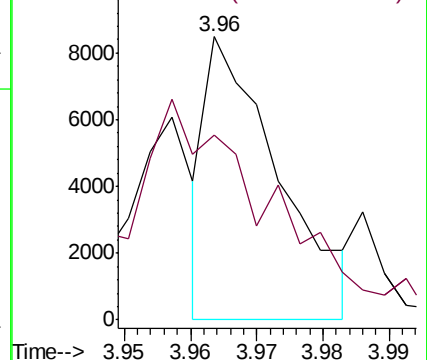
101 100

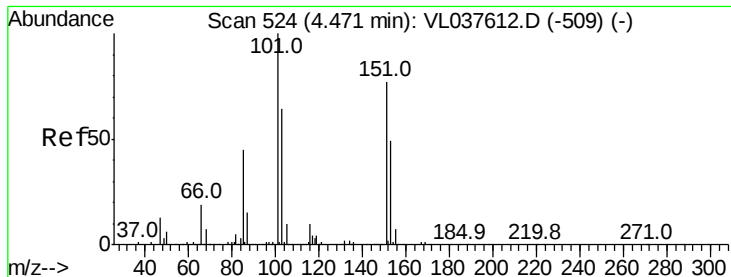
103 63.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.178 ppbv

RT: 4.50 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

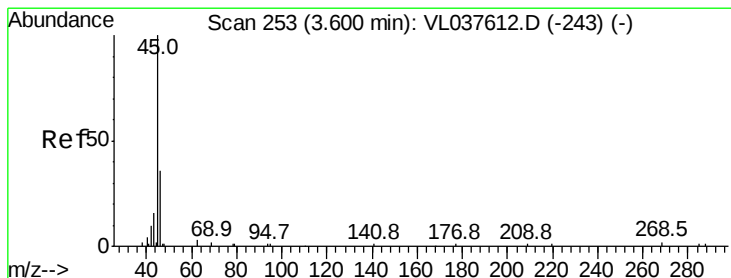
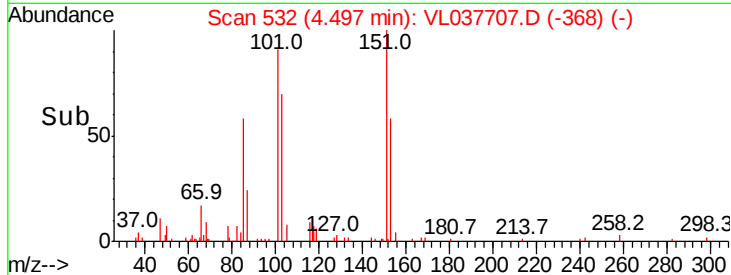
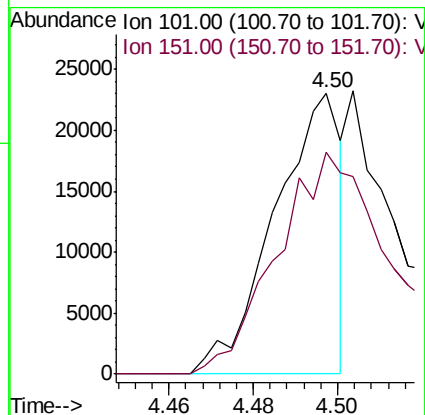
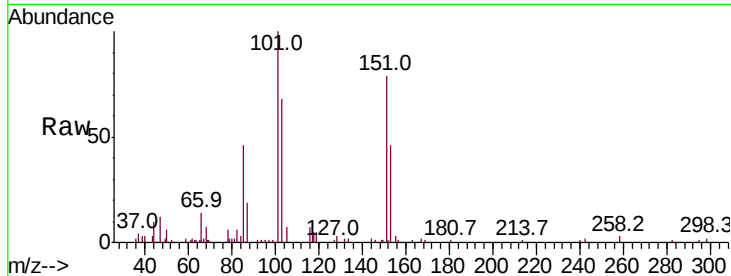
Acq: 28 Sep 2021 18:09

Tot Ion:101 Resp: 25127

Ion Ratio Lower Upper

101 100

151 148.5 63.5 95.3#



#13

Ethanol

Concen: 0.101 ppbv

RT: 3.64 min Scan# 264

Delta R.T. 0.04 min

Lab File: VL037707.D

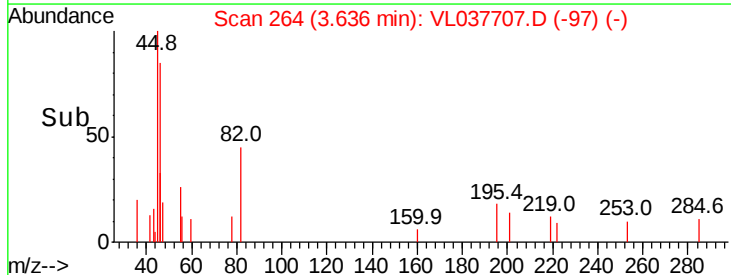
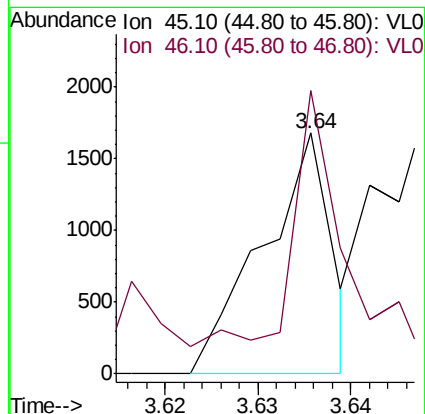
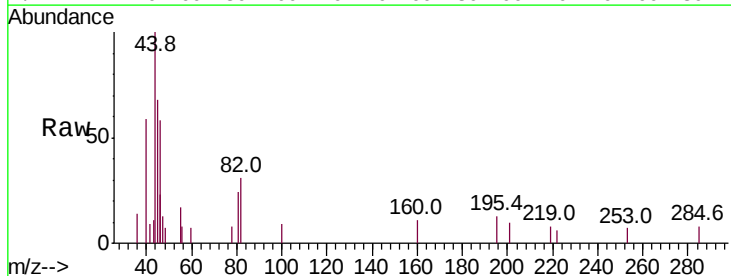
Acq: 28 Sep 2021 18:09

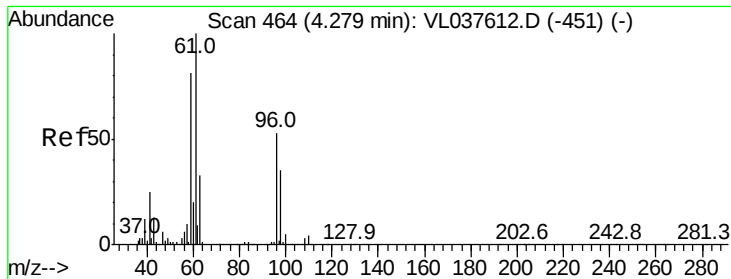
Tgt Ion: 45 Resp: 868

Ion Ratio Lower Upper

45 100

46 190.0 17.2 68.8#





#18

1,1-Dichloroethene

Concen: 0.129 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Sep 2021 18:09

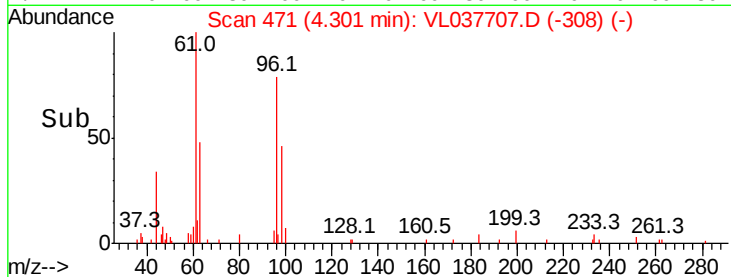
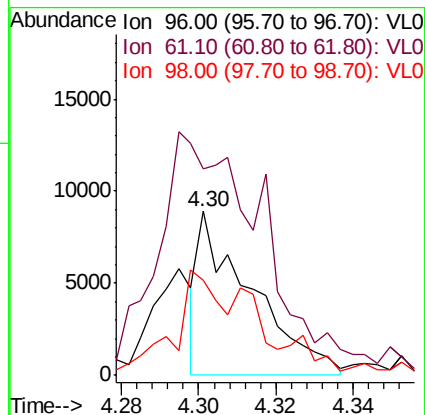
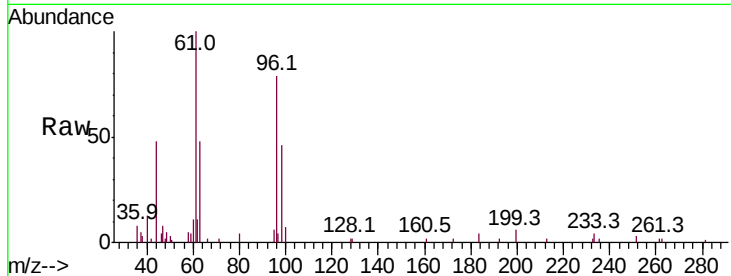
Tot Ion: 96 Resp: 8473

Ion Ratio Lower Upper

96 100

61 114.6 150.4 225.6#

98 57.4 52.1 78.1



#20

Methylene Chloride

Concen: 0.115 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL037707.D

Acq: 28 Sep 2021 18:09

Tgt Ion: 84 Resp: 7529

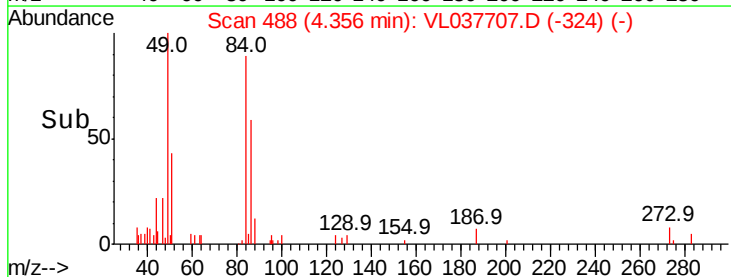
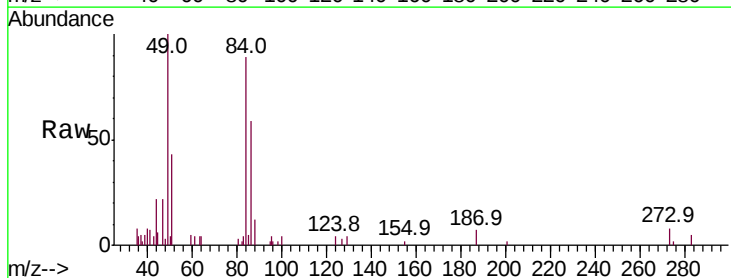
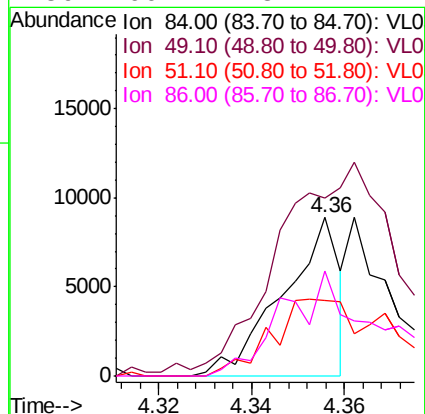
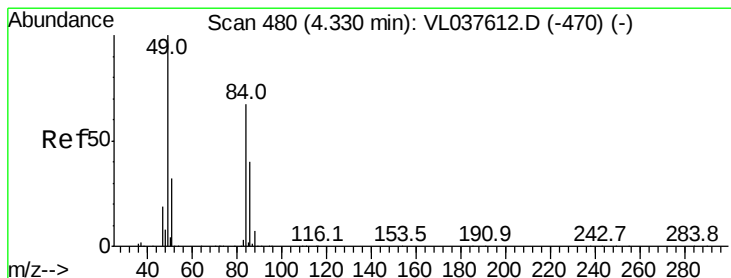
Ion Ratio Lower Upper

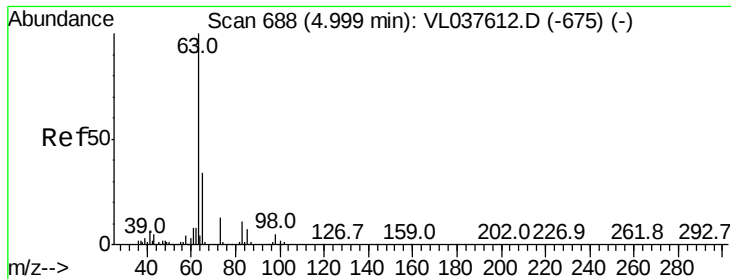
84 100

49 108.0 120.0 180.0#

51 48.1 38.0 57.0

86 66.7 48.2 72.2





#24

1,1-Dichloroethane

Concen: 2.069 ppbv

RT: 5.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 18:09

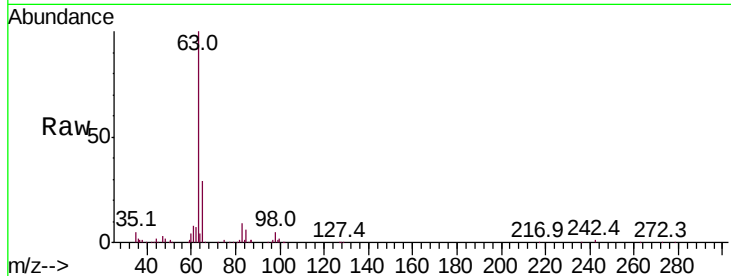
Tot Ion: 63 Resp: 280978

Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.2

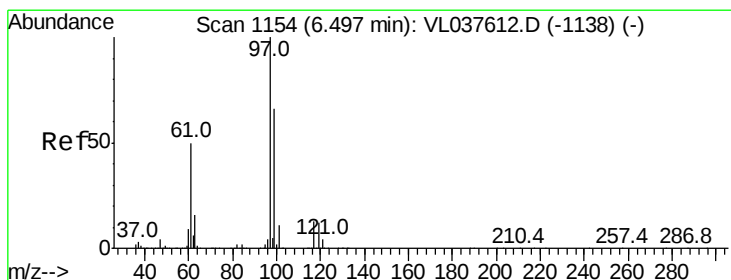
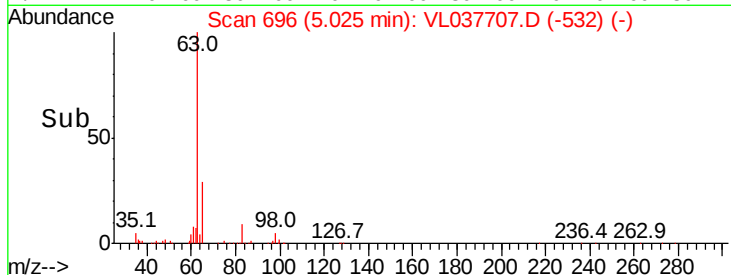
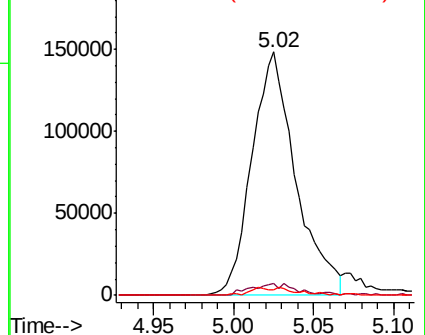
100 2.3 1.1 3.5



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#32

1,1,1-Trichloroethane

Concen: 13.915 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.03 min

Lab File: VL037707.D

Acq: 28 Sep 2021 18:09

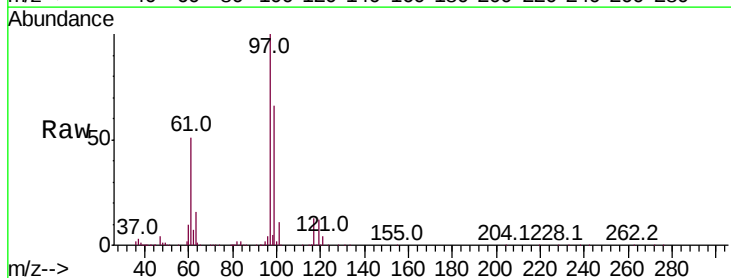
Tgt Ion: 97 Resp: 2981062

Ion Ratio Lower Upper

97 100

99 65.5 52.3 78.5

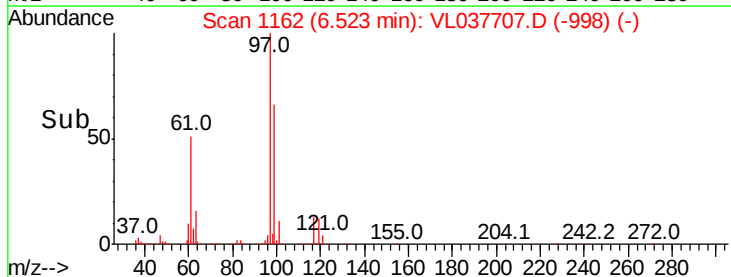
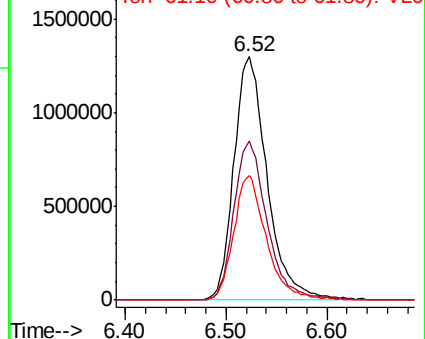
61 50.6 39.5 59.3

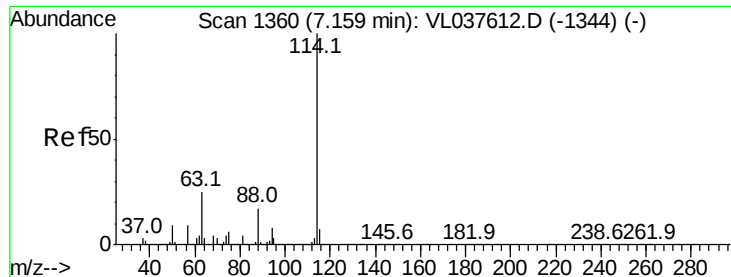


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Sep 2021 18:09

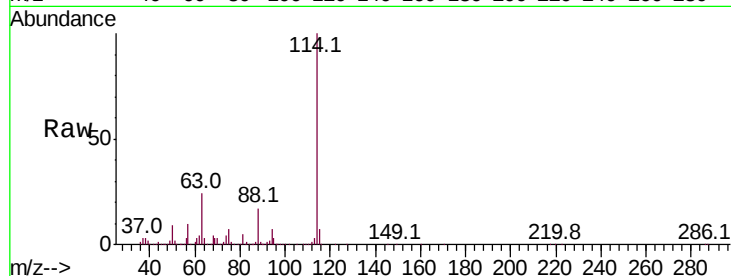
Tot Ion: 114 Resp: 3950021

Ion Ratio Lower Upper

114 100

63 24.0 19.6 29.4

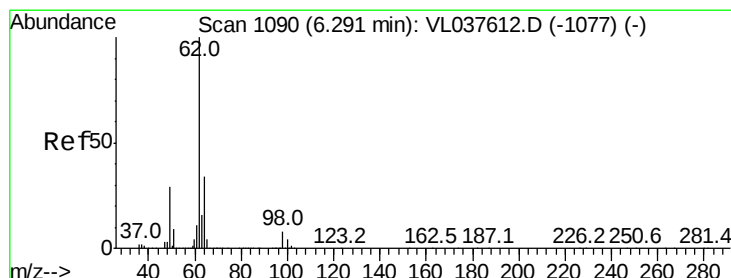
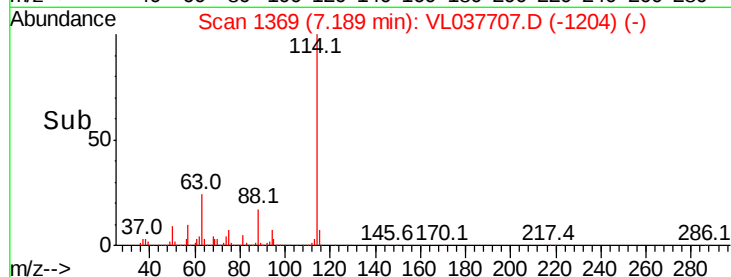
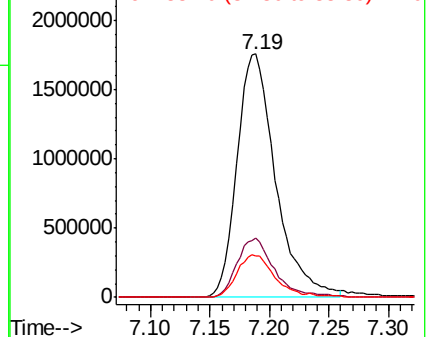
88 17.9 14.2 21.4



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



#37

1,2-Dichloroethane

Concen: 1.178 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.23 min

Lab File: VL037707.D

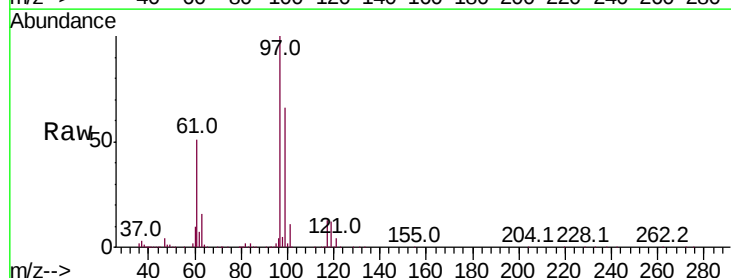
Acq: 28 Sep 2021 18:09

Tgt Ion: 62 Resp: 190782

Ion Ratio Lower Upper

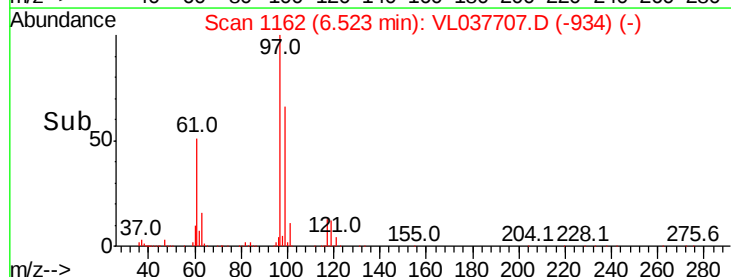
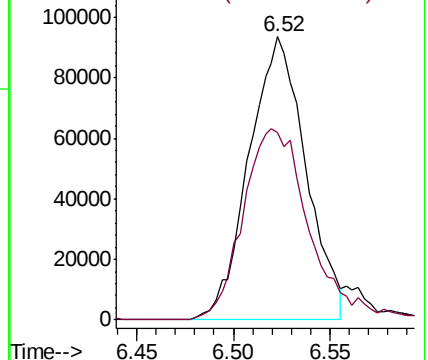
62 100

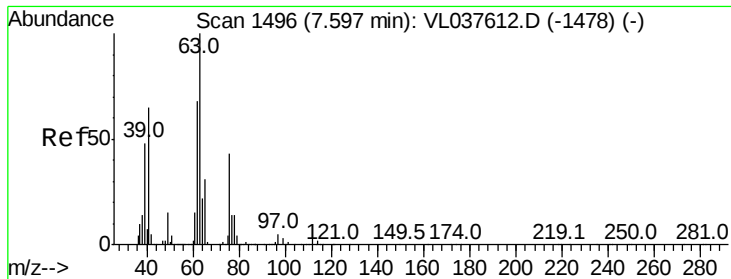
98 79.9 6.1 9.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 0.081 ppbv

RT: 7.25 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 18:09

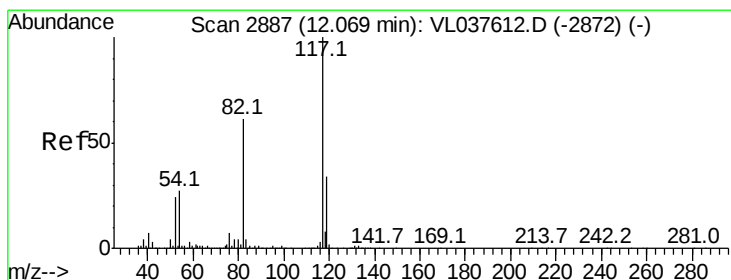
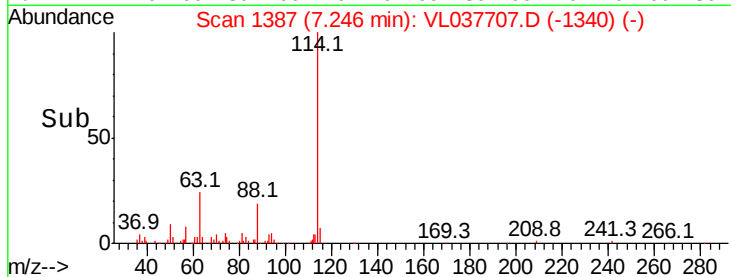
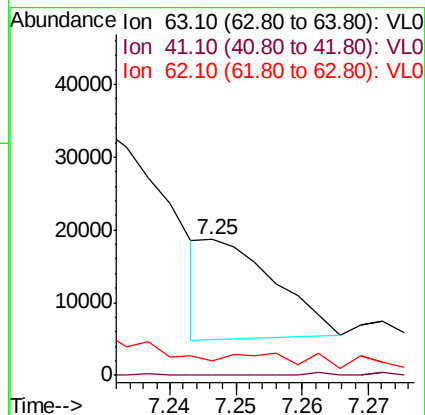
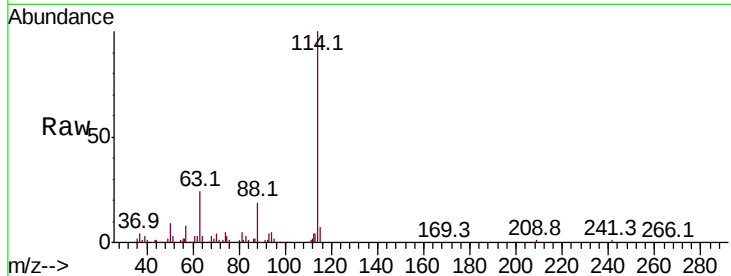
Tot Ion: 63 Resp: 10235

Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 9.1 54.6 81.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.03 min

Lab File: VL037707.D

Acq: 28 Sep 2021 18:09

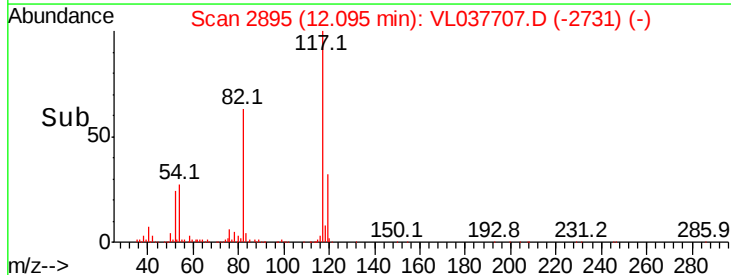
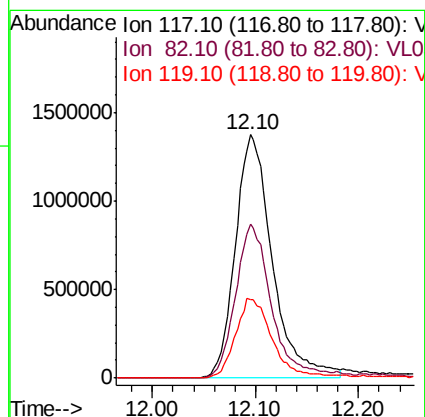
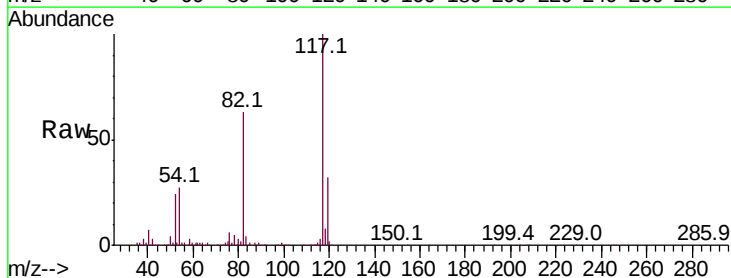
Tgt Ion: 117 Resp: 3437068

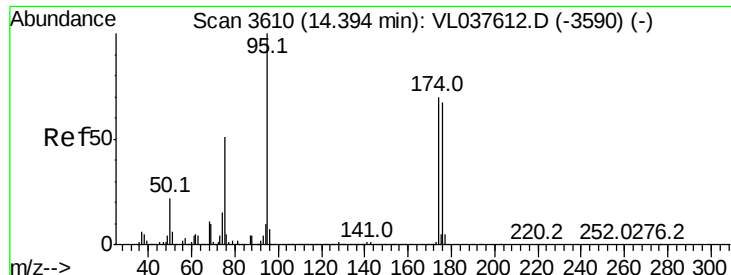
Ion Ratio Lower Upper

117 100

82 62.2 50.6 75.8

119 33.8 26.2 39.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.510 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 18:09

Tot Ion: 95 Resp: 2362170

Ion Ratio Lower Upper

95 100

174 78.2 56.3 84.5

175 5.7 4.4 6.6

