

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037469.D
 Acq On : 16 Aug 2021 20:01
 Operator : SY/AP
 Sample : M3277-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DUP

Quant Time: Aug 17 11:25:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1267201	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3915961	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3289548	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2575757	11.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.20%

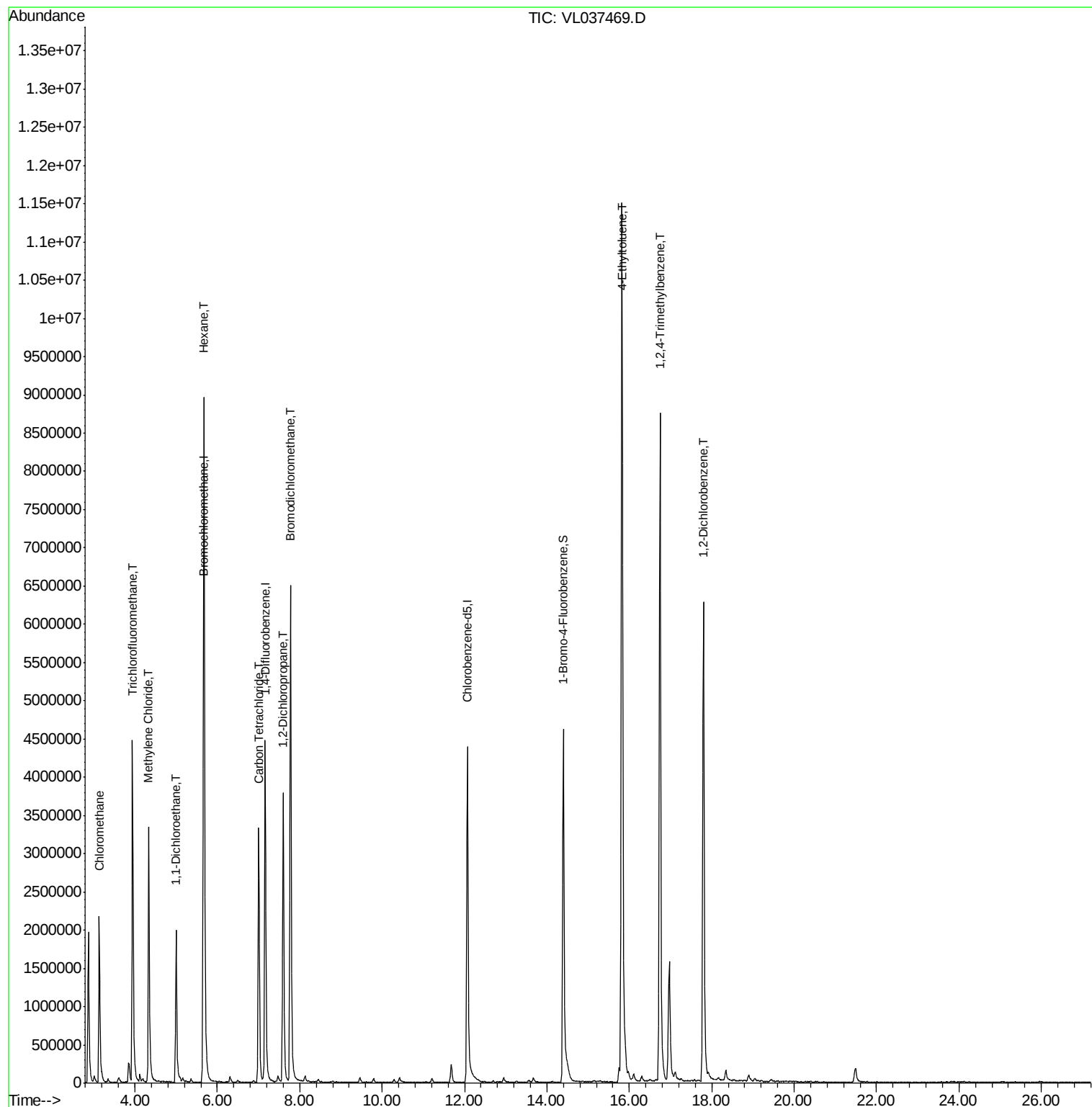
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	2504729	28.885	ppbv	95
11) Trichlorofluoromethane	3.94	101	3695293	19.362	ppbv	99
20) Methylene Chloride	4.33	84	1432158	22.180	ppbv	96
24) 1,1-Dichloroethane	5.00	63	2035189	14.762	ppbv	99
26) Hexane	5.68	57	3985595	24.899	ppbv #	45
35) Carbon Tetrachloride	7.01	117	2276276	9.836	ppbv	99
39) 1,2-Dichloropropane	7.60	63	1614879	12.766	ppbv	97
42) Bromodichloromethane	7.78	83	5074258	21.281	ppbv	94
72) 4-Ethyltoluene	15.82	105	11526168	26.235	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	7750296	17.834	ppbv #	69
77) 1,2-Dichlorobenzene	17.80	146	3858953	14.981	ppbv	99

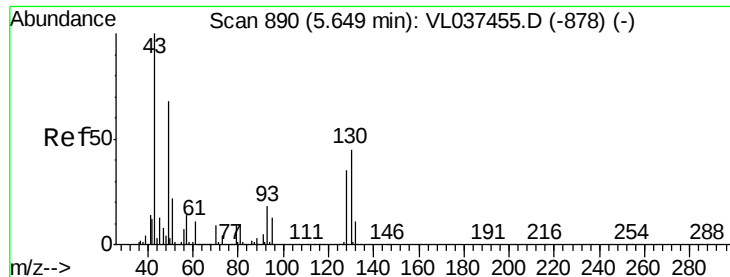
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 17 11:25:34 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037469.D

Acq: 16 Aug 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DUP

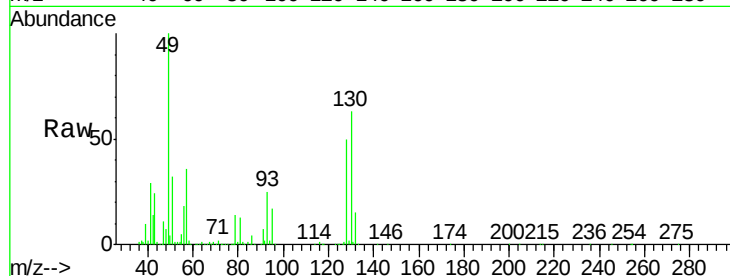
Tot Ion: 49 Resp: 1267201

Ion Ratio Lower Upper

49 100

128 55.7 27.5 82.4

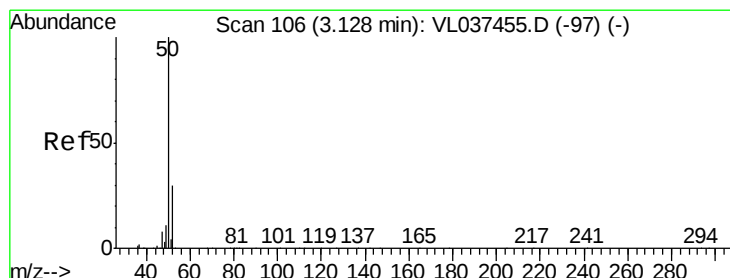
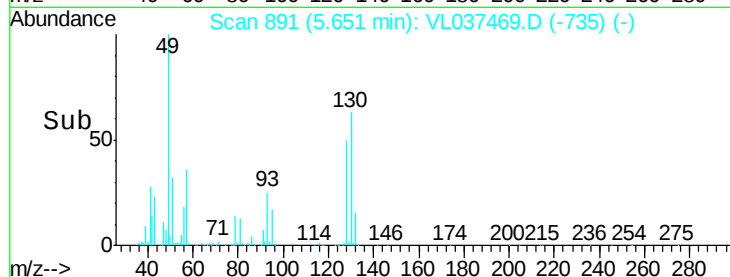
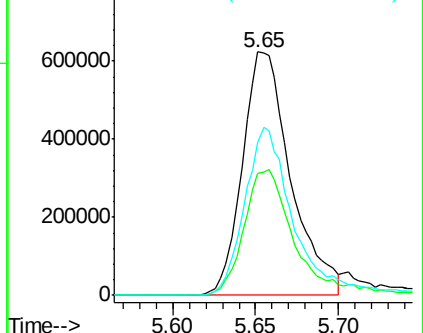
130 71.1 34.0 101.8



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



#4

Chloromethane

Concen: 28.885 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037469.D

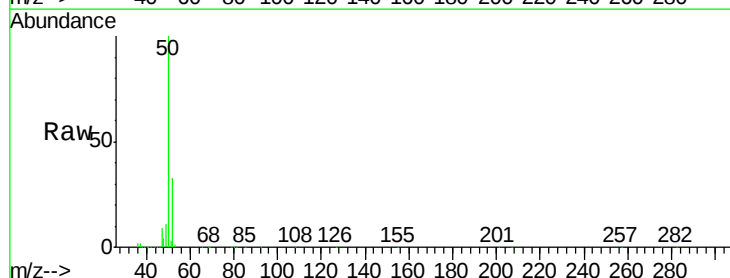
Acq: 16 Aug 2021 20:01

Tgt Ion: 50 Resp: 2504729

Ion Ratio Lower Upper

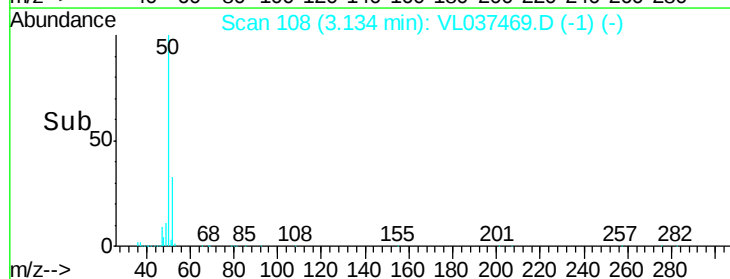
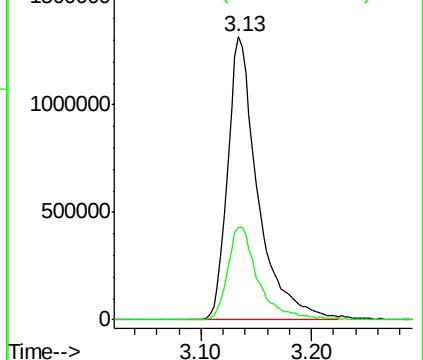
50 100

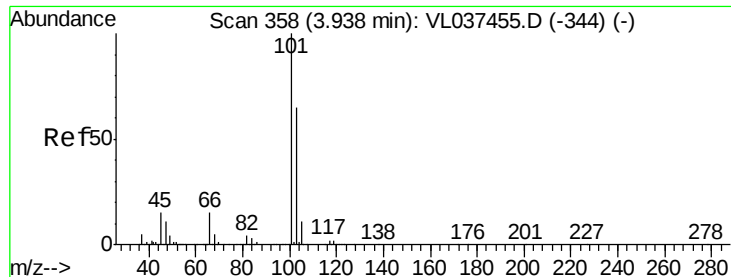
52 32.9 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

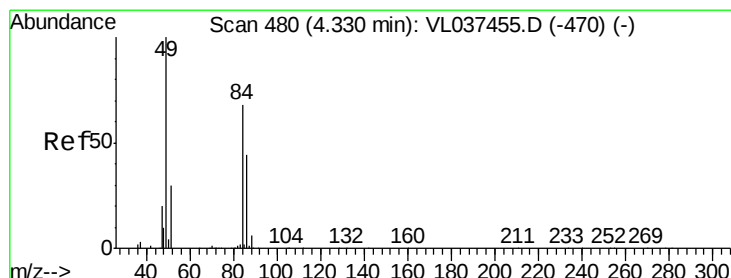
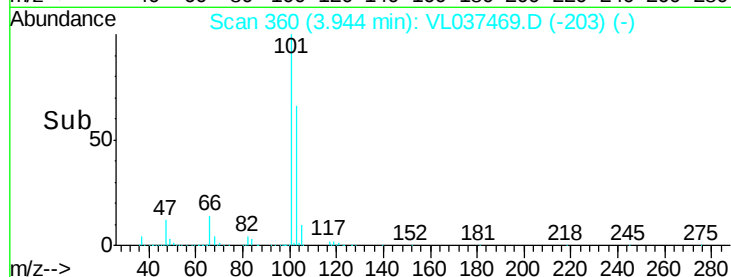
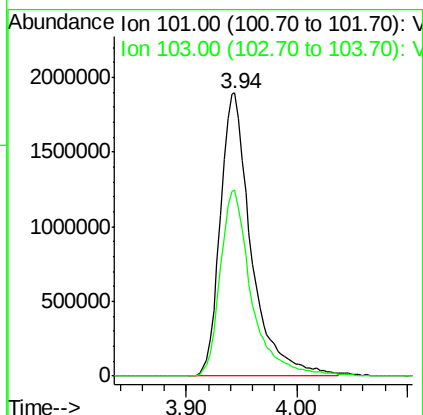
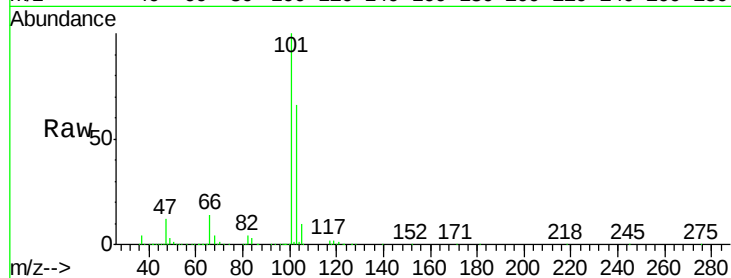




#11
 Trichlorofluoromethane
 Concen: 19.362 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.01 min
 Lab File: VL037469.D
 Acq: 16 Aug 2021 20:01

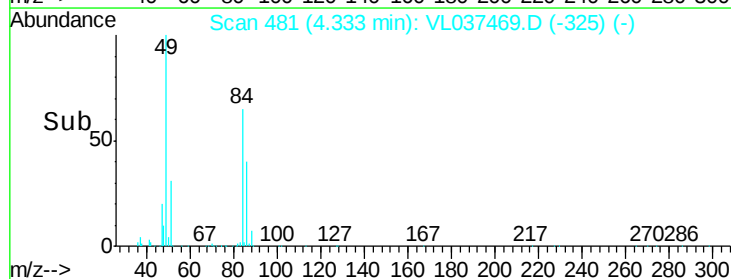
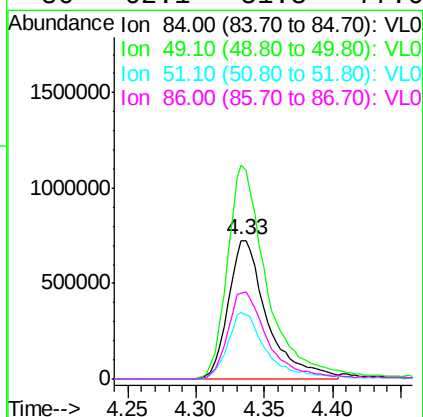
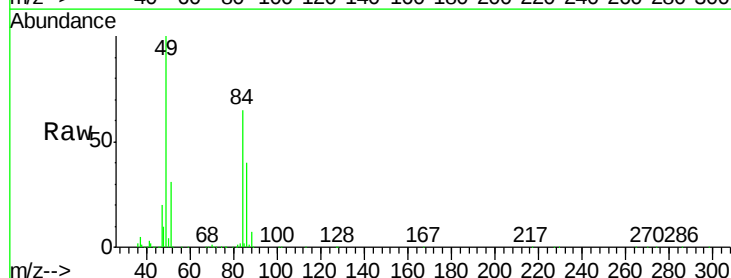
Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DUP

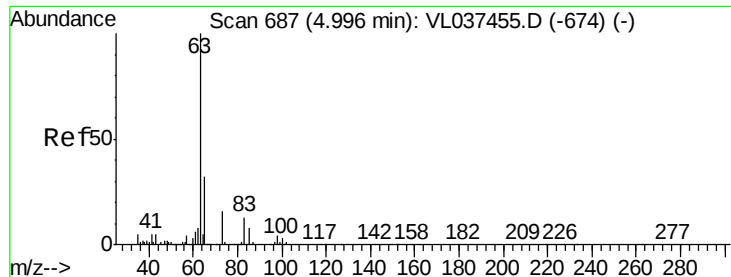
Tot Ion:101 Resp: 3695293
 Ion Ratio Lower Upper
 101 100
 103 65.8 51.8 77.6



#20
 Methylene Chloride
 Concen: 22.180 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL037469.D
 Acq: 16 Aug 2021 20:01

Tgt Ion: 84 Resp: 1432158
 Ion Ratio Lower Upper
 84 100
 49 154.0 118.2 177.2
 51 47.6 36.6 55.0
 86 62.1 51.8 77.6





#24

1,1-Dichloroethane

Concen: 14.762 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.00 min

Lab File: VL037469.D

Acq: 16 Aug 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DUP

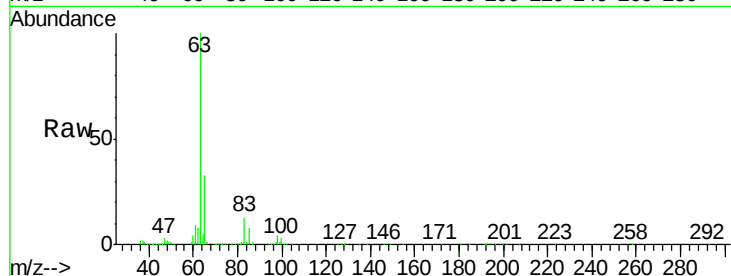
Tot Ion: 63 Resp: 2035189

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

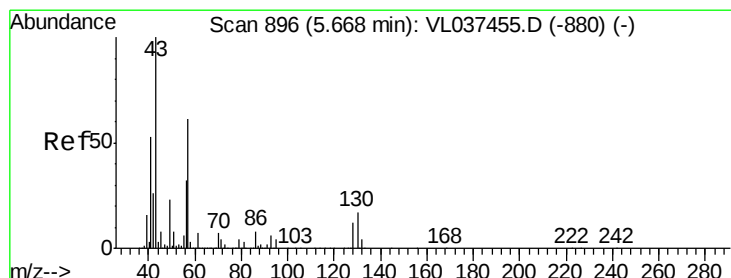
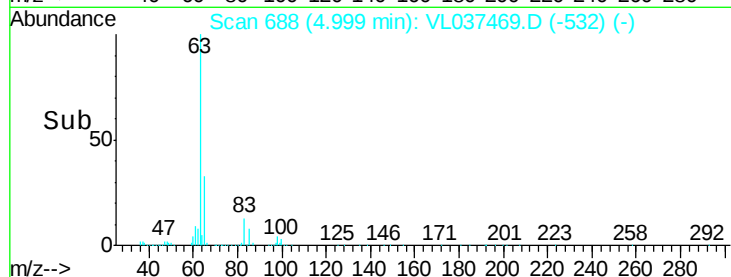
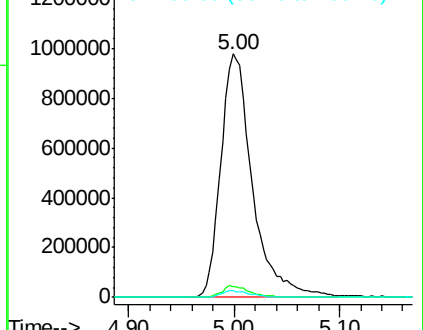
100 2.6 1.6 4.7



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



#26

Hexane

Concen: 24.899 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL037469.D

Acq: 16 Aug 2021 20:01

Tgt Ion: 57 Resp: 3985595

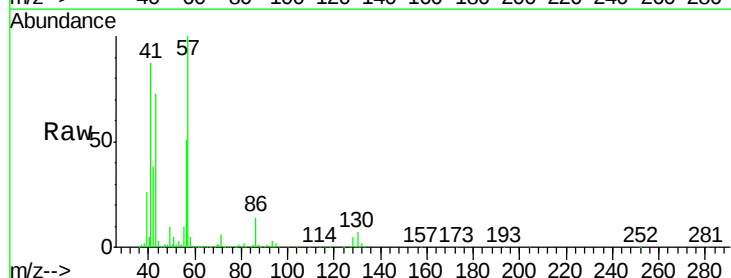
Ion Ratio Lower Upper

57 100

41 88.2 72.3 108.5

43 71.4 172.3 258.5#

56 53.3 42.8 64.2

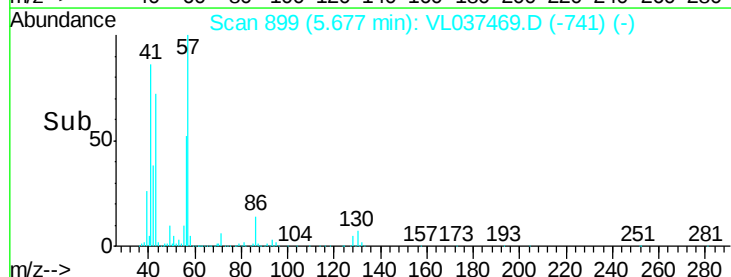
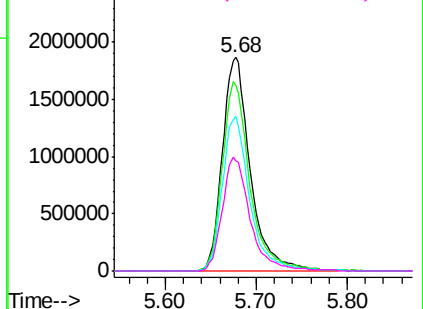


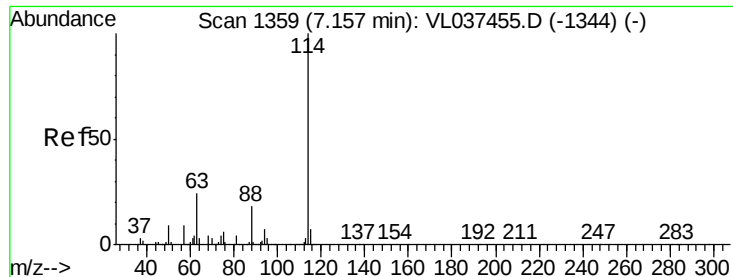
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

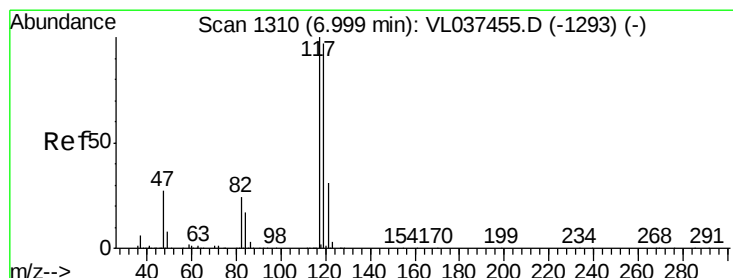
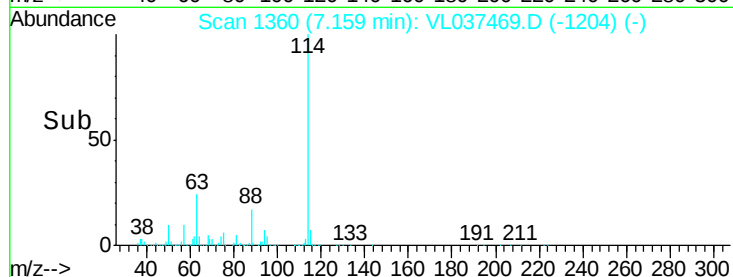
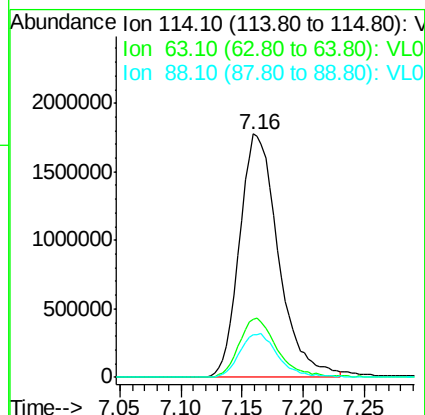
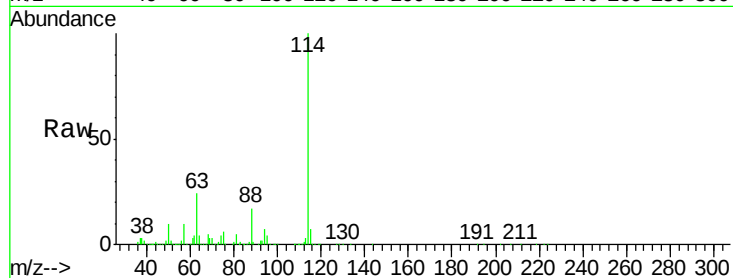




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037469.D
 Acq: 16 Aug 2021 20:01

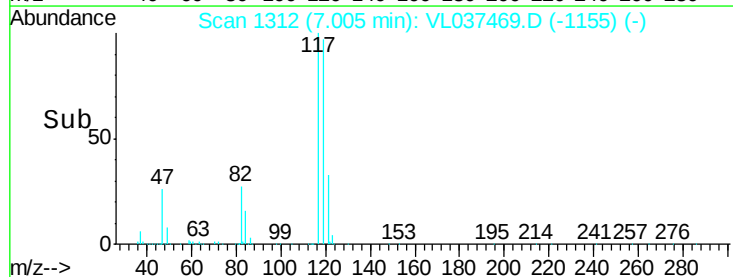
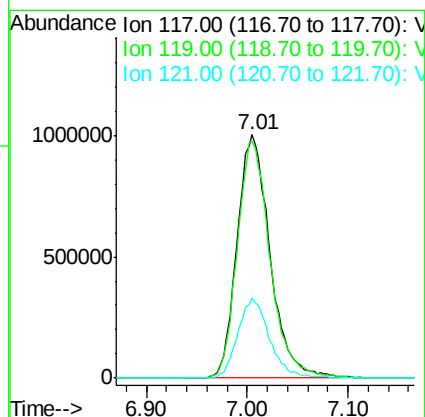
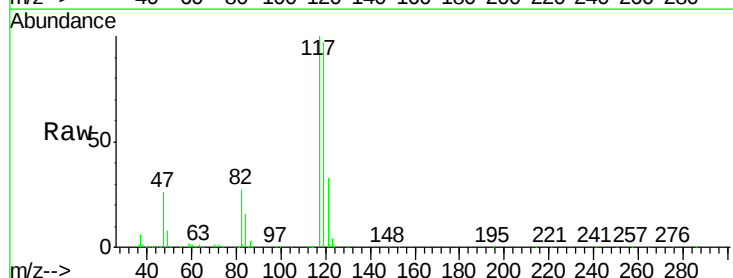
Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DUP

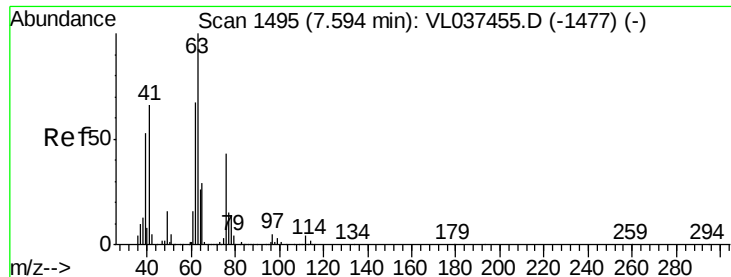
Tot Ion:114 Resp: 3915961
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.3 28.9
 88 18.2 14.2 21.4



#35
 Carbon Tetrachloride
 Concen: 9.836 ppbv
 RT: 7.01 min Scan# 1312
 Delta R.T. 0.01 min
 Lab File: VL037469.D
 Acq: 16 Aug 2021 20:01

Tgt Ion:117 Resp: 2276276
 Ion Ratio Lower Upper
 117 100
 119 97.4 77.3 115.9
 121 32.6 25.2 37.8

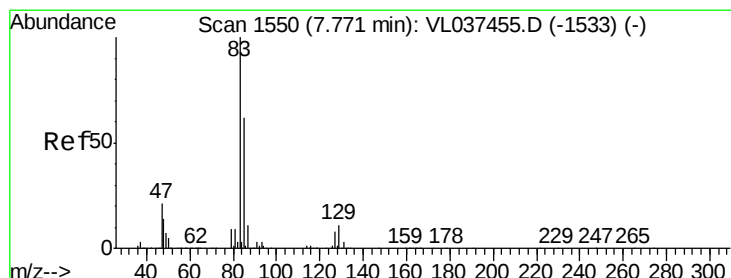
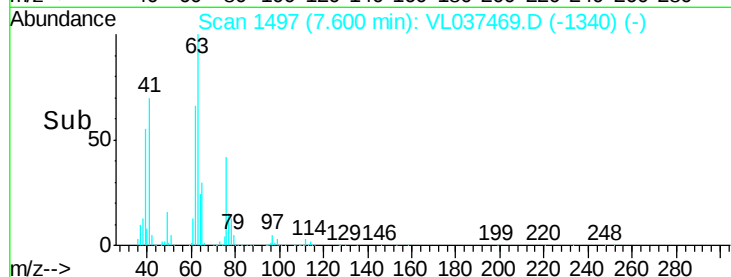
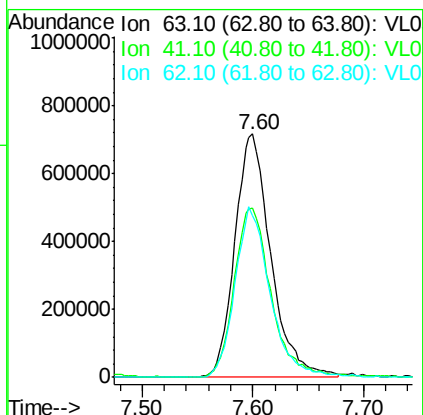
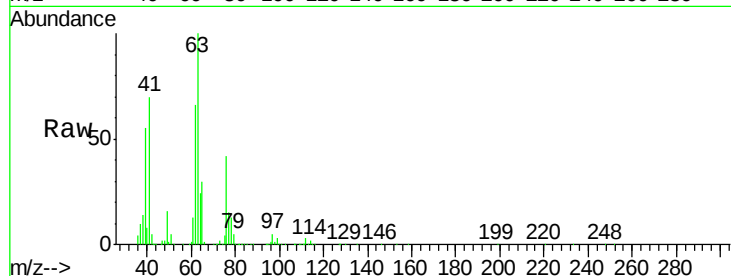




#39
 1,2-Dichloropropane
 Concen: 12.766 ppbv
 RT: 7.60 min Scan# 1497
 Delta R.T. 0.01 min
 Lab File: VL037469.D
 Acq: 16 Aug 2021 20:01

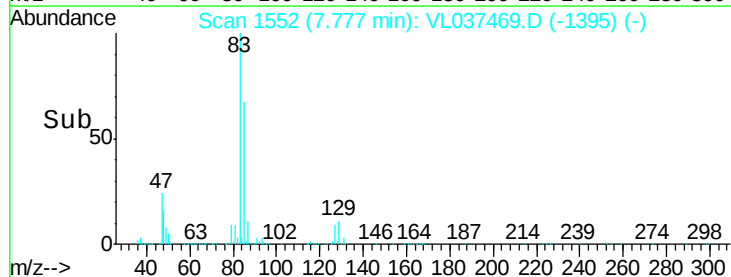
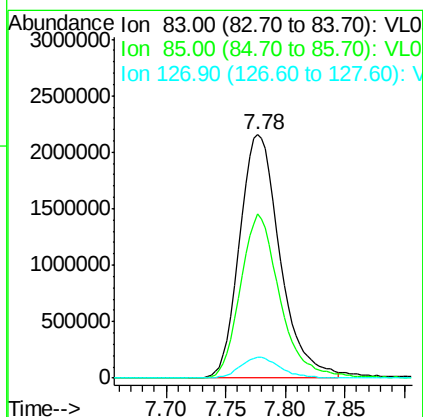
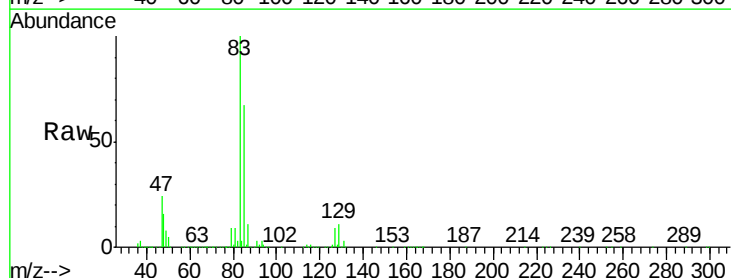
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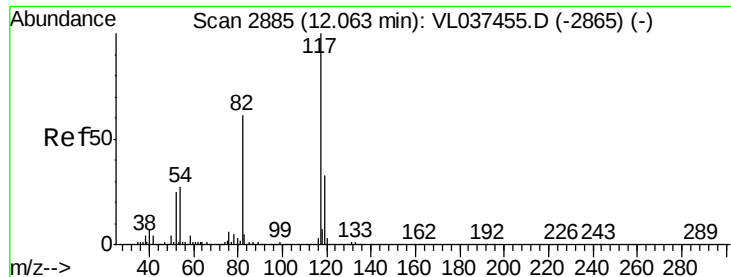
Tot Ion: 63 Resp: 1614879
 Ion Ratio Lower Upper
 63 100
 41 69.8 52.4 78.6
 62 66.4 53.6 80.4



#42
 Bromodichloromethane
 Concen: 21.281 ppbv
 RT: 7.78 min Scan# 1552
 Delta R.T. 0.01 min
 Lab File: VL037469.D
 Acq: 16 Aug 2021 20:01

Tgt Ion: 83 Resp: 5074258
 Ion Ratio Lower Upper
 83 100
 85 67.3 49.5 74.3
 127 8.6 6.3 9.5

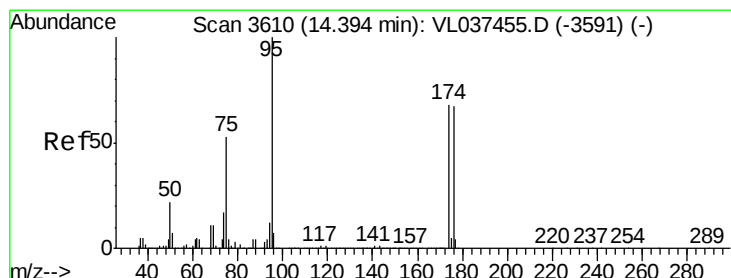
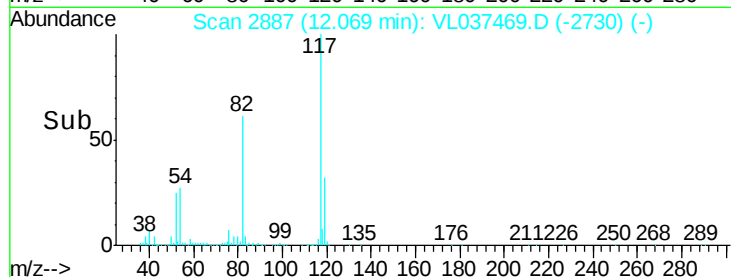
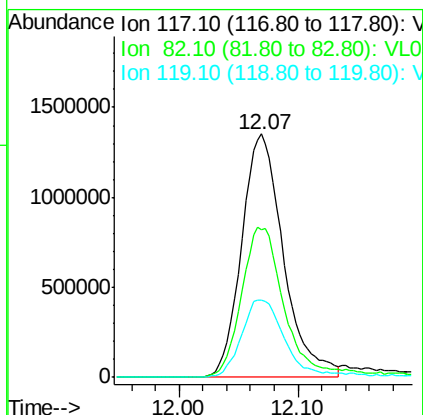
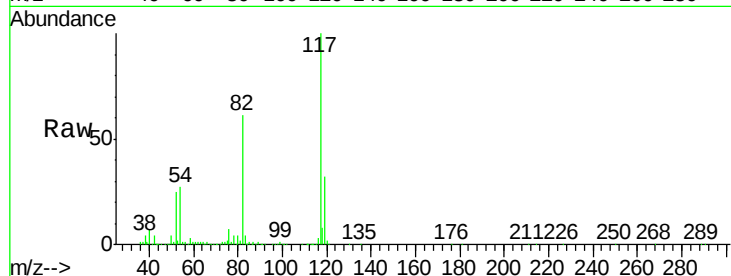




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037469.D
Acq: 16 Aug 2021 20:01

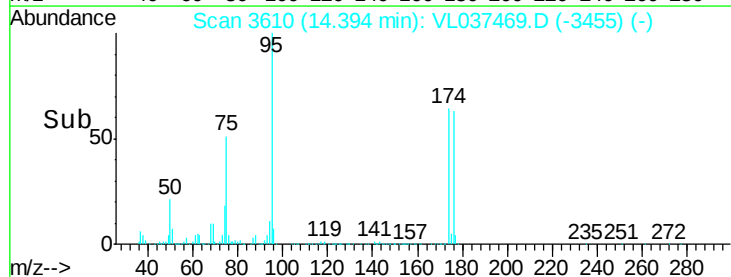
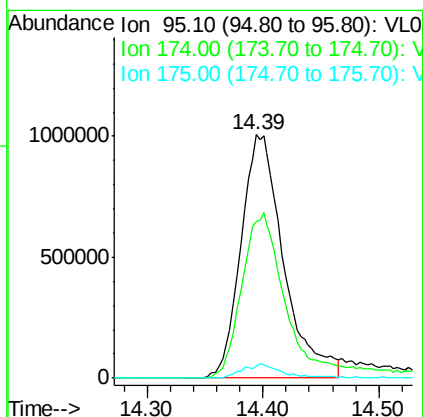
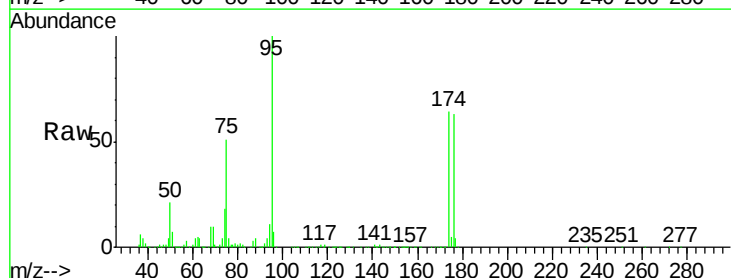
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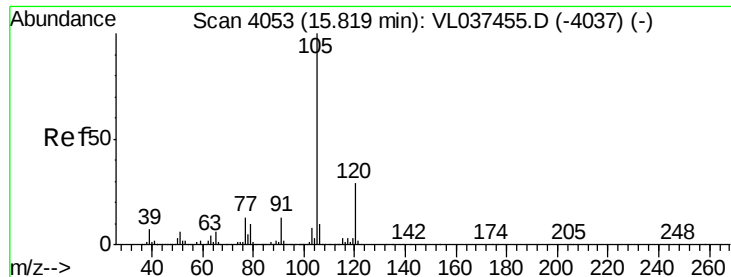
Tot Ion:117 Resp: 3289548
Ion Ratio Lower Upper
117 100
82 67.2 52.9 79.3
119 34.4 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 11.021 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL037469.D
Acq: 16 Aug 2021 20:01

Tgt Ion: 95 Resp: 2575757
Ion Ratio Lower Upper
95 100
174 75.1 59.6 89.4
175 5.8 4.6 7.0





#72

4-Ethyltoluene

Concen: 26.235 ppbv

RT: 15.82 min Scan# 4055

Delta R.T. 0.01 min

Lab File: VL037469.D

Acq: 16 Aug 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DUP

Tot Ion:105 Resp:11526168

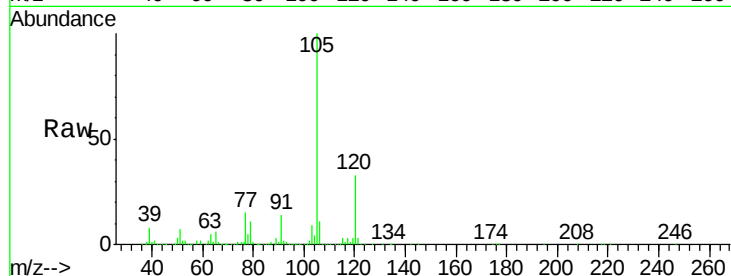
Ion Ratio Lower Upper

105 100

120 32.4 24.7 37.1

91 13.1 9.8 14.8

77 14.5 10.6 15.8

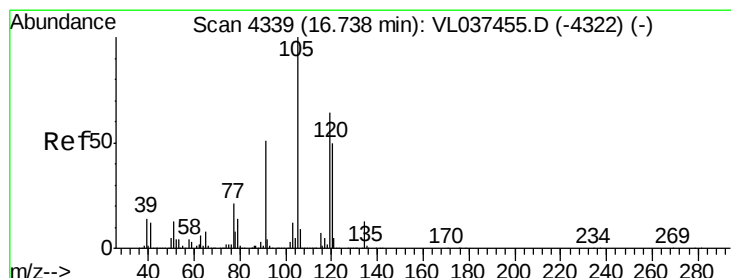
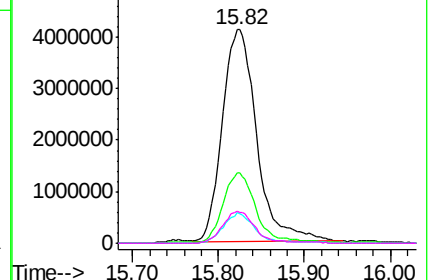
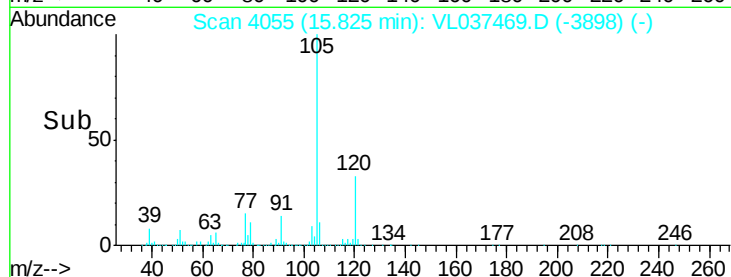


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#74

1,2,4-Trimethylbenzene

Concen: 17.834 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.01 min

Lab File: VL037469.D

Acq: 16 Aug 2021 20:01

Tgt Ion:105 Resp: 7750296

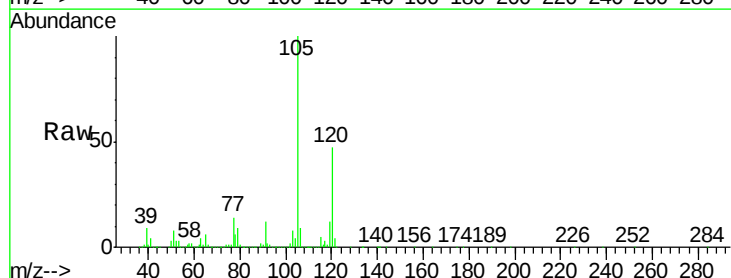
Ion Ratio Lower Upper

105 100

120 46.5 40.4 60.6

91 11.7 44.6 67.0#

77 14.4 17.8 26.6#

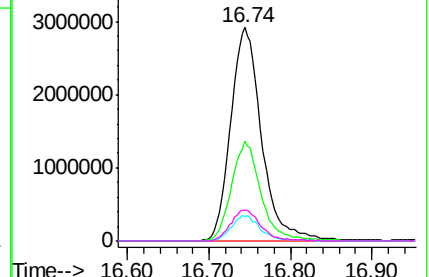
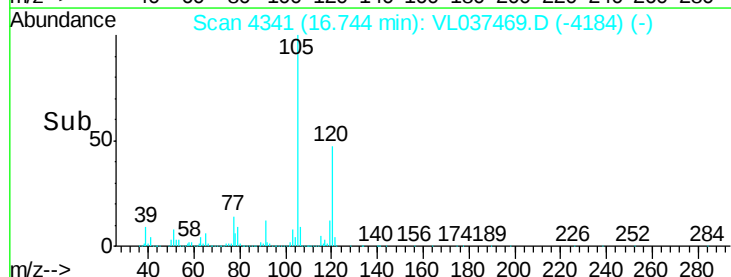


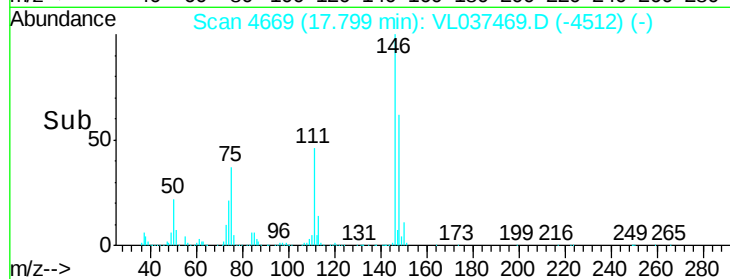
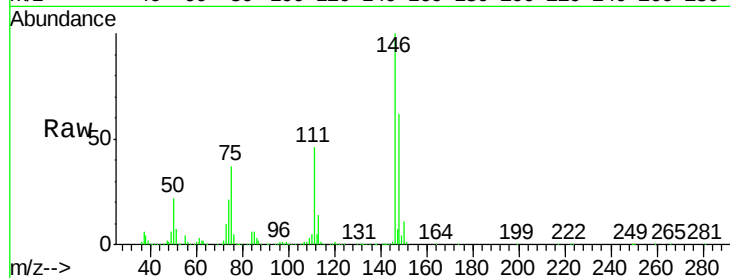
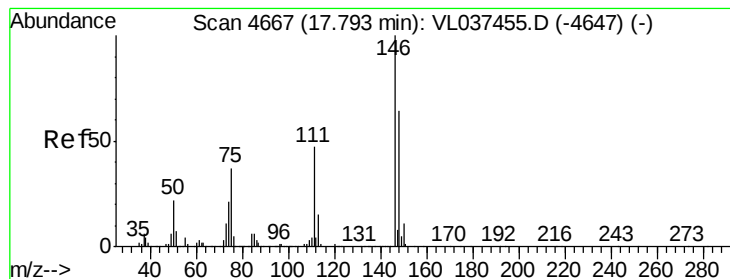
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#77

1,2-Dichlorobenzene

Concen: 14.981 ppbv

RT: 17.80 min Scan# 4669

Delta R.T. 0.01 min

Lab File: VL037469.D

Acq: 16 Aug 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DUP

Tot Ion:146 Resp: 3858953

Ion Ratio Lower Upper

146 100

111 48.0 23.4 70.3

148 65.2 32.5 97.5

