

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037622.D
 Acq On : 16 Sep 2021 19:27
 Operator : SY/AP
 Sample : M3277-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100

Quant Time: Sep 17 09:10:21 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	5.65	49	1672069	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4969438	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	5499856	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	5336719	13.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	134.30%

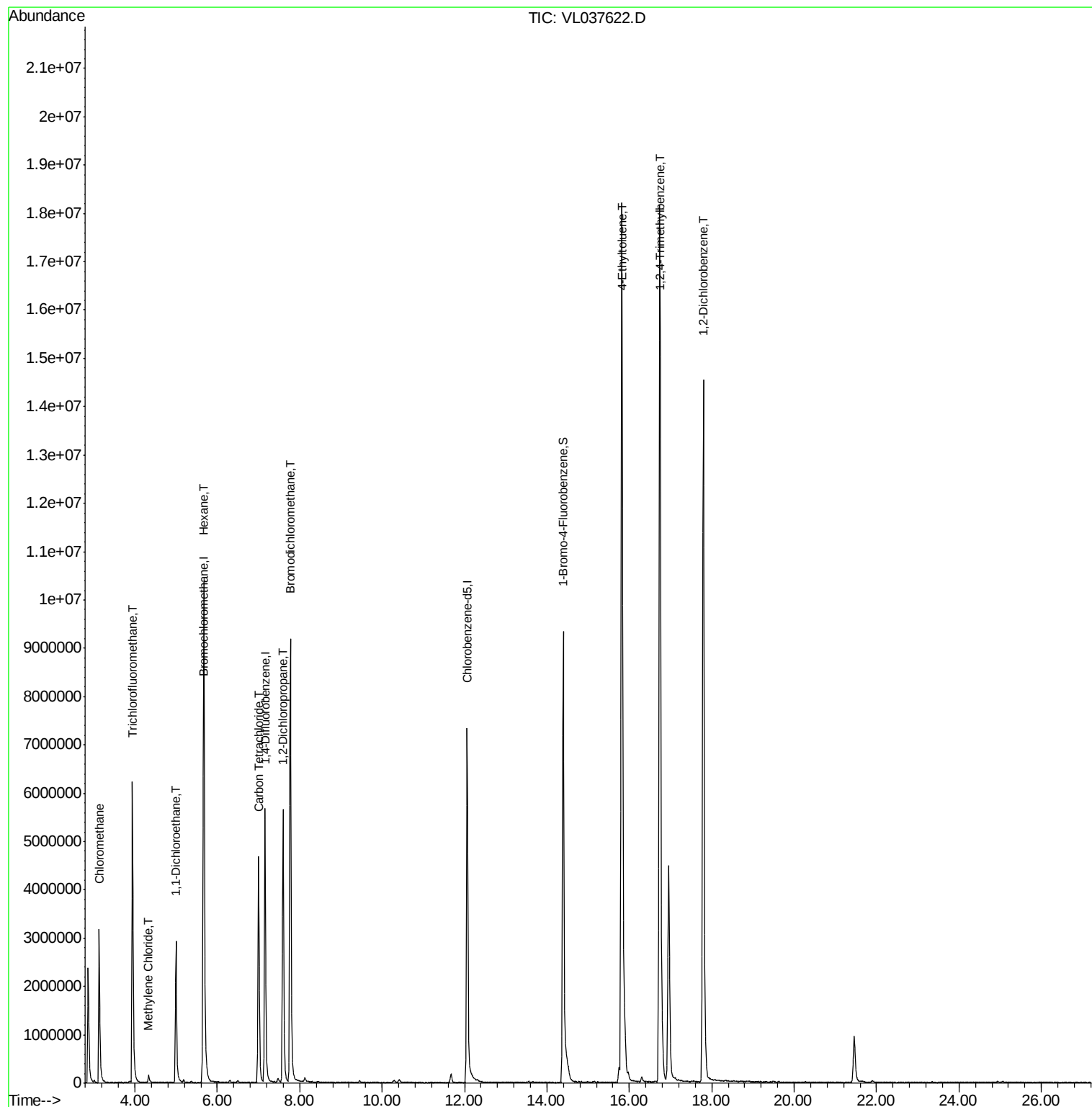
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	3717826	31.906	ppbv	98
11) Trichlorofluoromethane	3.94	101	5249947	21.612	ppbv	98
20) Methylene Chloride	4.33	84	49792	0.600	ppbv	98
24) 1,1-Dichloroethane	5.00	63	2948217	17.119	ppbv	98
26) Hexane	5.67	57	4520617	22.617	ppbv #	46
35) Carbon Tetrachloride	7.00	117	3279868	11.668	ppbv	98
39) 1,2-Dichloropropane	7.60	63	2441750	15.384	ppbv	98
42) Bromodichloromethane	7.77	83	7282256	24.930	ppbv	95
72) 4-Ethyltoluene	15.82	105	19051731	27.407	ppbv	93
74) 1,2,4-Trimethylbenzene	16.74	105	16845364	24.683	ppbv #	80
77) 1,2-Dichlorobenzene	17.80	146	9230206	22.951	ppbv	100

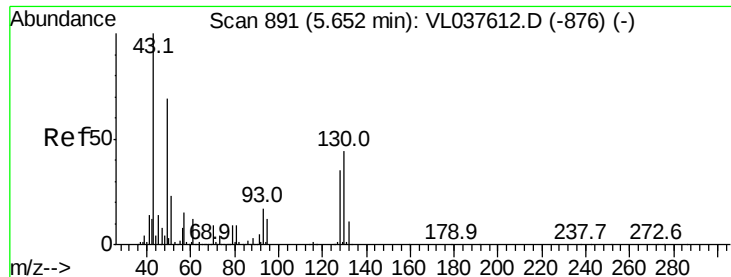
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :
E057-1100

Quant Time: Sep 17 09:10:21 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Instrument :

MSVOA_L

ClientSampleId :

E057-1100

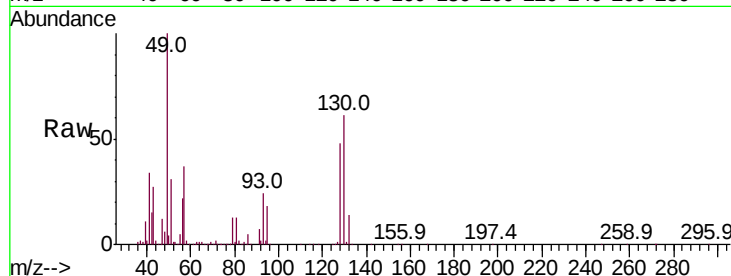
Tot Ion: 49 Resp: 1672069

Ion Ratio Lower Upper

49 100

128 53.1 27.9 83.6

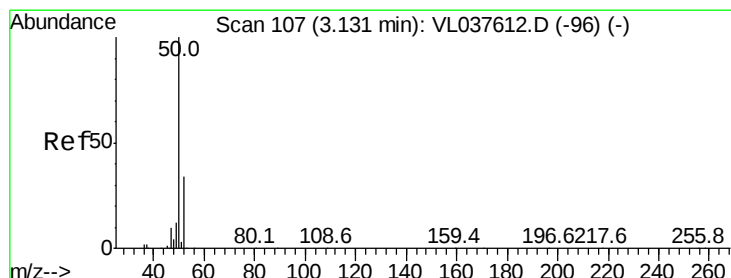
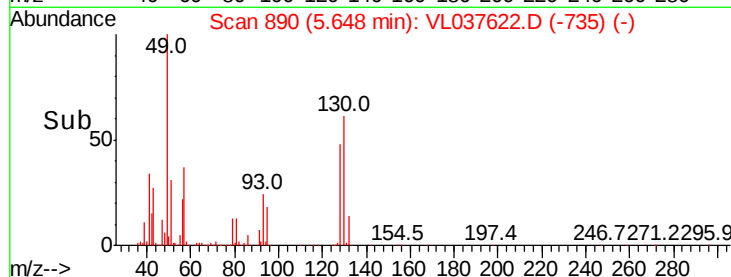
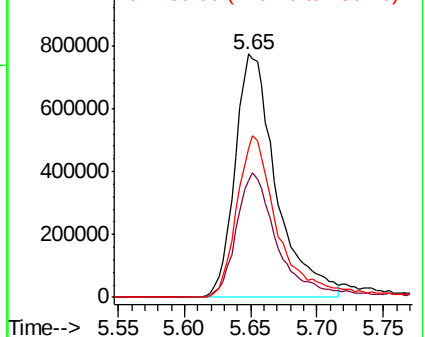
130 67.1 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 31.906 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL037622.D

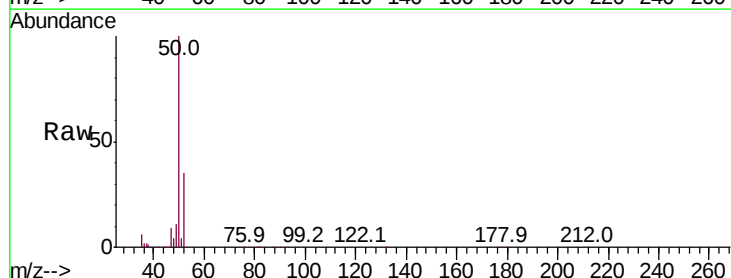
Acq: 16 Sep 2021 19:27

Tgt Ion: 50 Resp: 3717826

Ion Ratio Lower Upper

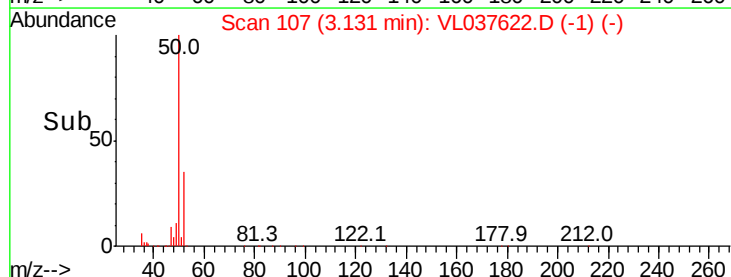
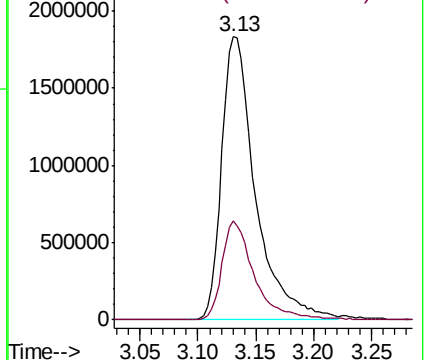
50 100

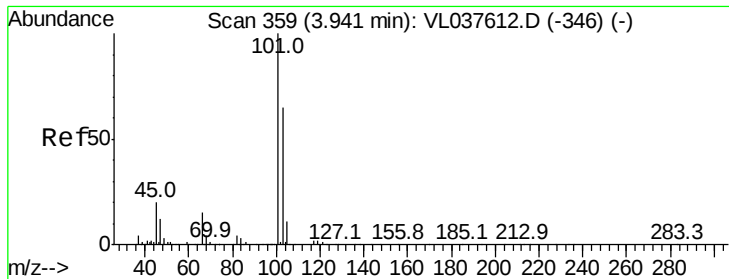
52 34.8 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

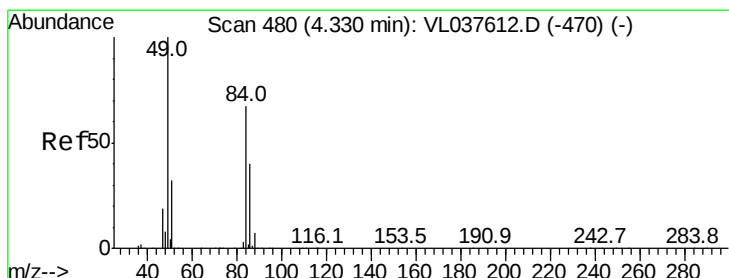
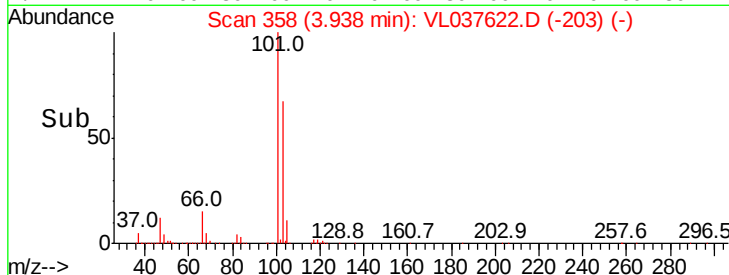
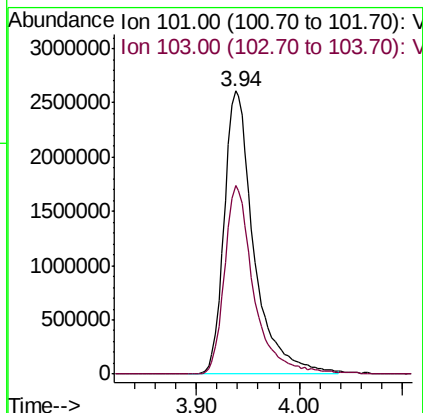
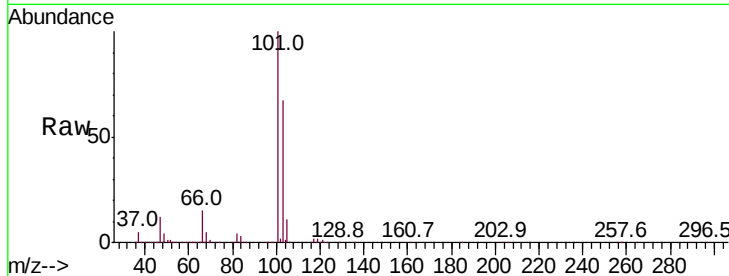




#11
 Trichlorofluoromethane
 Concen: 21.612 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL037622.D
 Acq: 16 Sep 2021 19:27

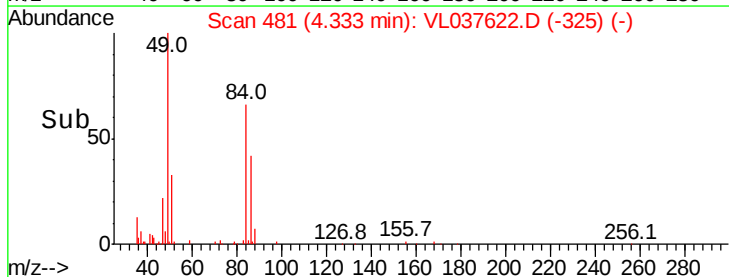
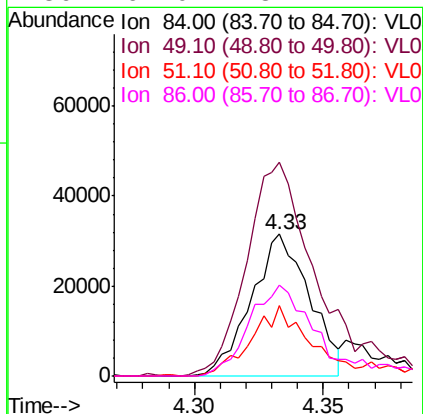
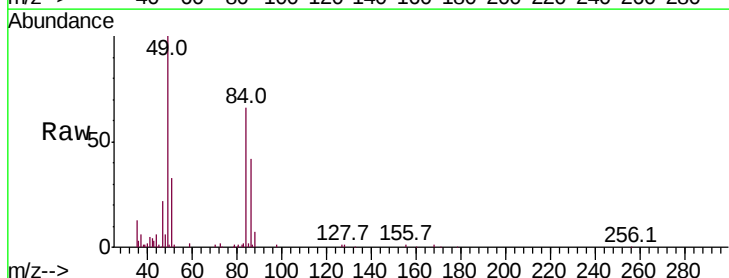
Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100

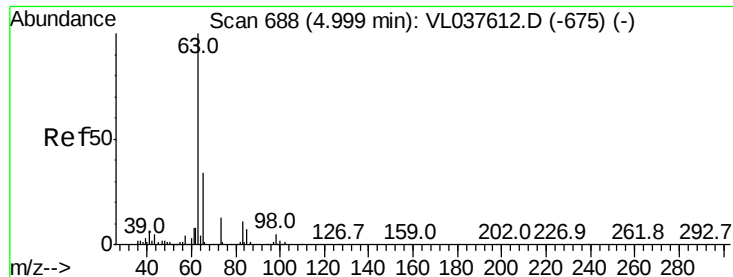
Tot Ion:101 Resp: 5249947
 Ion Ratio Lower Upper
 101 100
 103 66.6 51.9 77.9



#20
 Methylene Chloride
 Concen: 0.600 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL037622.D
 Acq: 16 Sep 2021 19:27

Tgt Ion: 84 Resp: 49792
 Ion Ratio Lower Upper
 84 100
 49 149.6 120.0 180.0
 51 50.2 38.0 57.0
 86 64.0 48.2 72.2





#24

1,1-Dichloroethane

Concen: 17.119 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Instrument :

MSVOA_L

ClientSampleId :

E057-1100

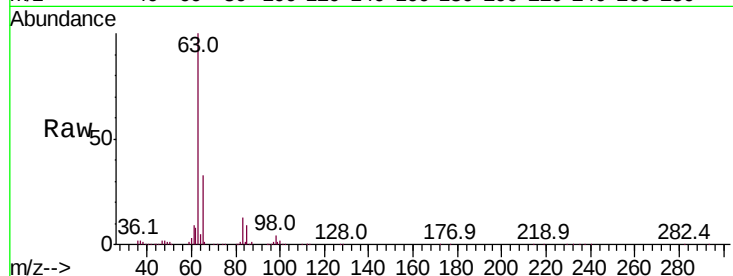
Tot Ion: 63 Resp: 2948217

Ion Ratio Lower Upper

63 100

98 3.9 2.4 7.2

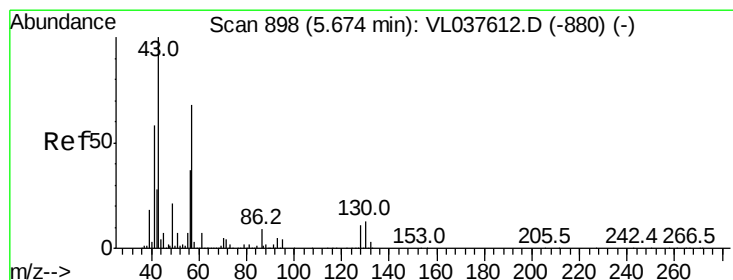
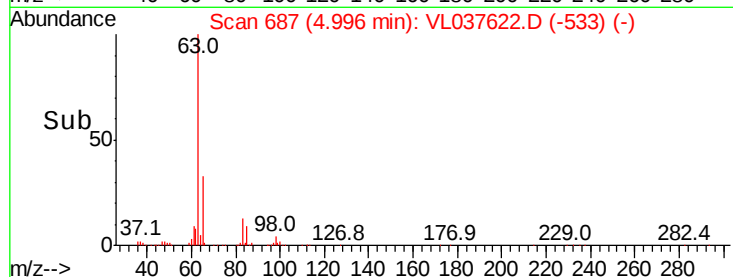
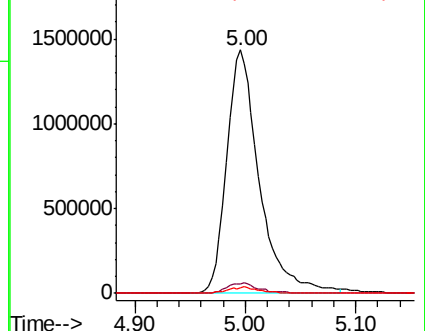
100 2.4 1.1 3.5



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



#26

Hexane

Concen: 22.617 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Tgt Ion: 57 Resp: 4520617

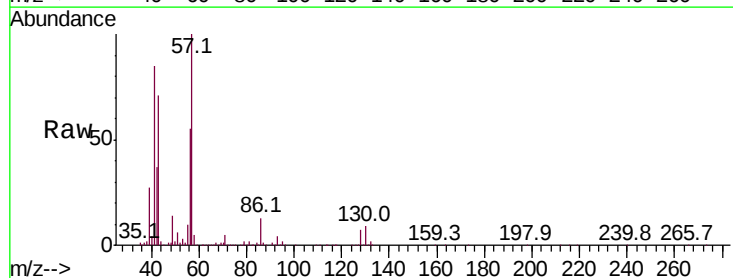
Ion Ratio Lower Upper

57 100

41 88.1 70.9 106.3

43 71.6 170.4 255.6#

56 53.8 42.6 64.0

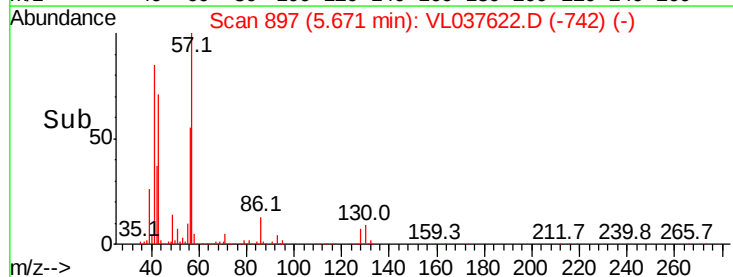
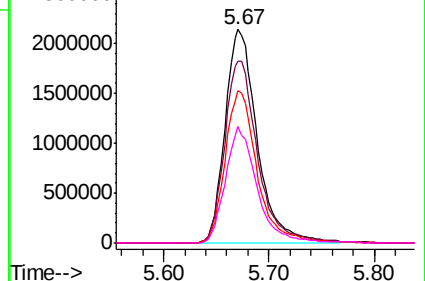


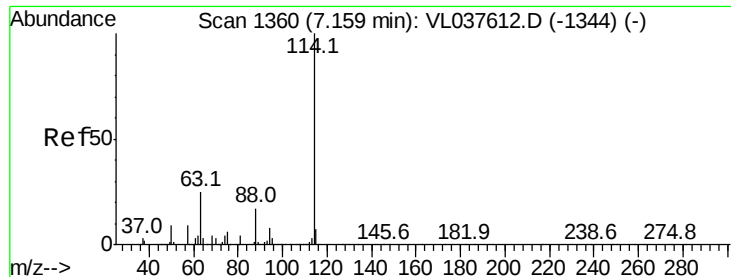
Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1359

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Instrument :

MSVOA_L

ClientSampleId :

E057-1100

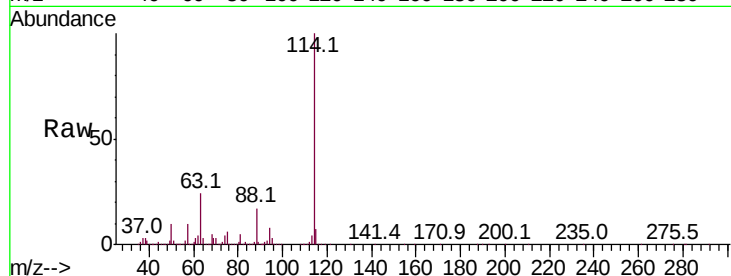
Tot Ion:114 Resp: 4969438

Ion Ratio Lower Upper

114 100

63 24.0 19.6 29.4

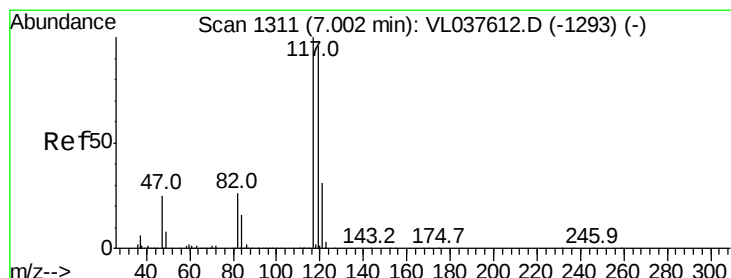
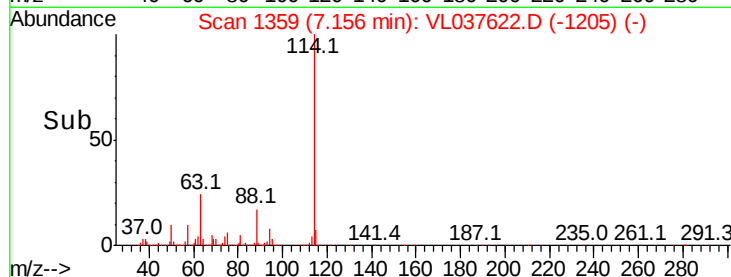
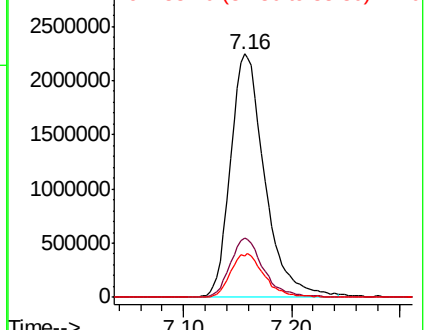
88 17.9 14.2 21.4



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



#35

Carbon Tetrachloride

Concen: 11.668 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

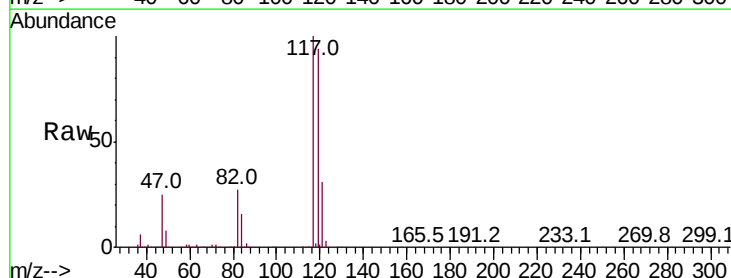
Tgt Ion:117 Resp: 3279868

Ion Ratio Lower Upper

117 100

119 94.2 77.0 115.6

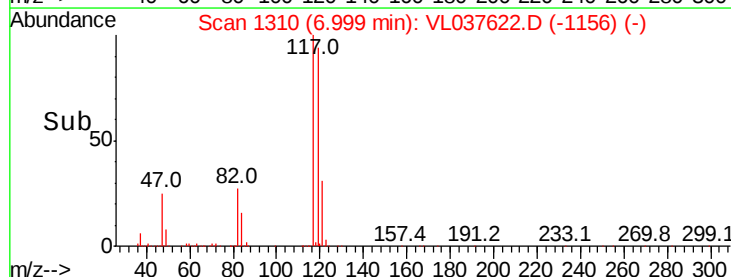
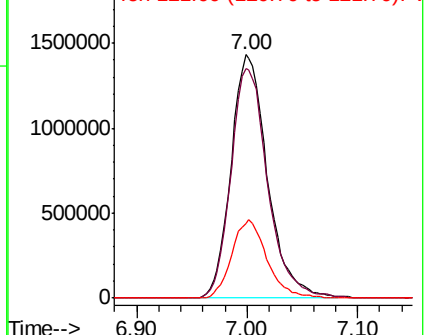
121 30.7 24.5 36.7

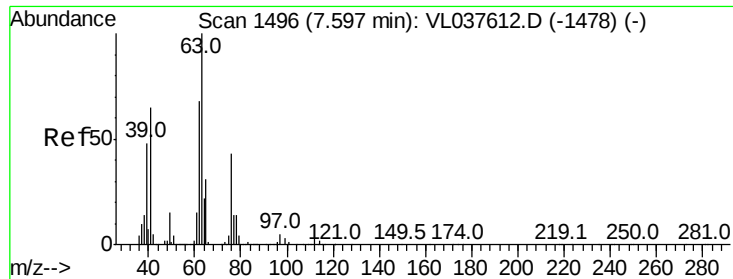


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#39

1,2-Dichloropropane

Concen: 15.384 ppbv

RT: 7.60 min Scan# 1496

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Instrument :

MSVOA_L

ClientSampled :

E057-1100

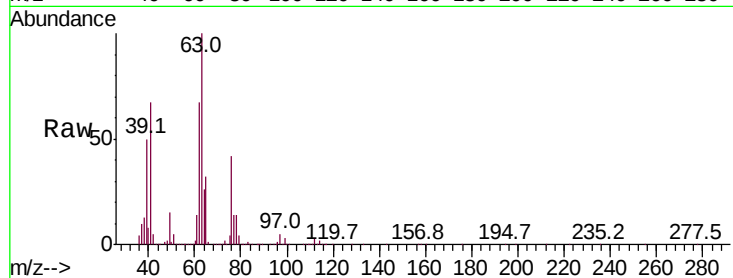
Tot Ion: 63 Resp: 2441750

Ion Ratio Lower Upper

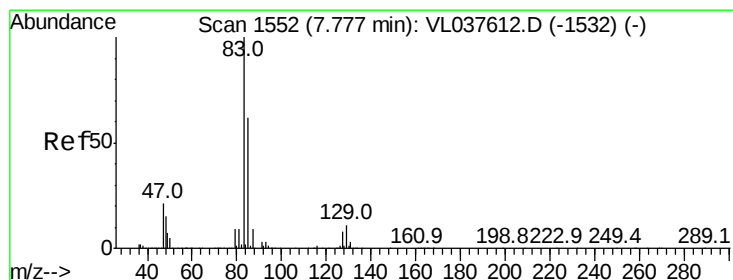
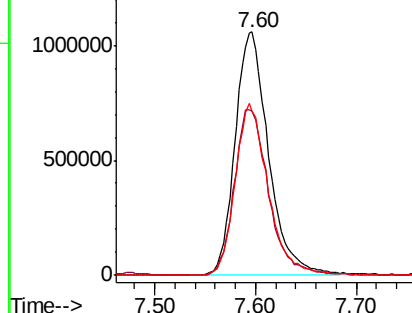
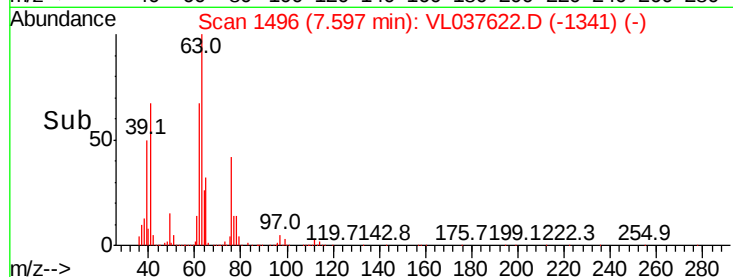
63 100

41 67.3 51.6 77.4

62 67.1 54.6 81.8



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



#42

Bromodichloromethane

Concen: 24.930 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.01 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

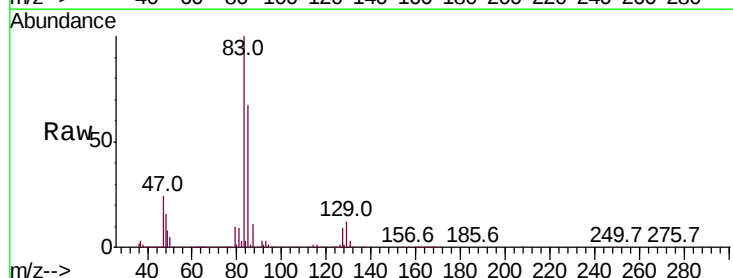
Tgt Ion: 83 Resp: 7282256

Ion Ratio Lower Upper

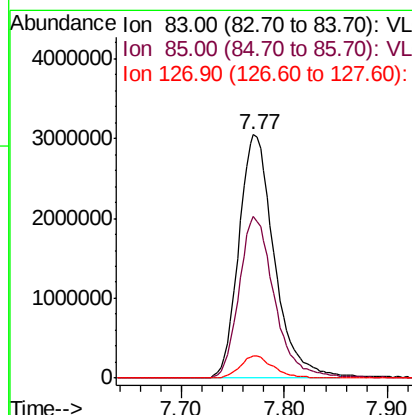
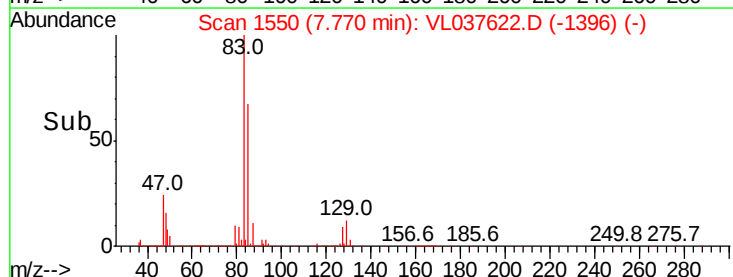
83 100

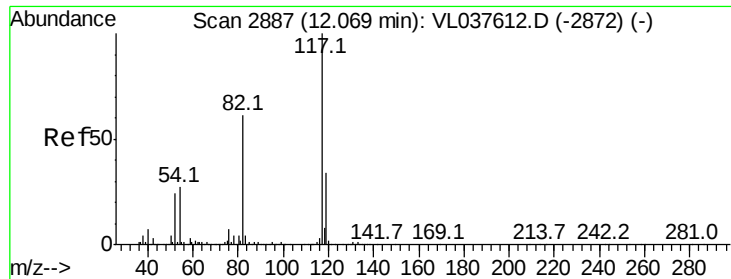
85 66.7 49.8 74.6

127 8.9 6.4 9.6



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): V

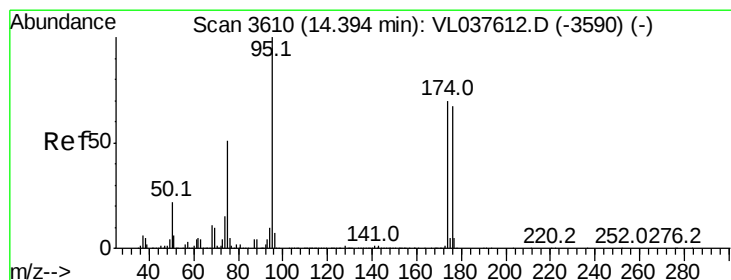
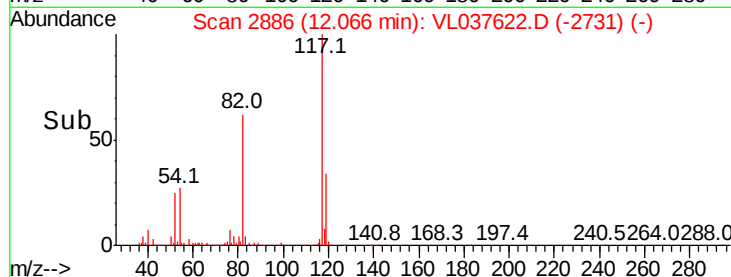
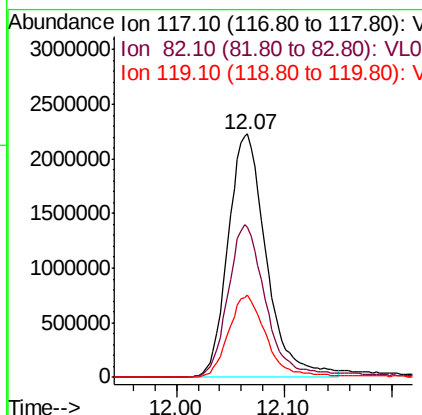
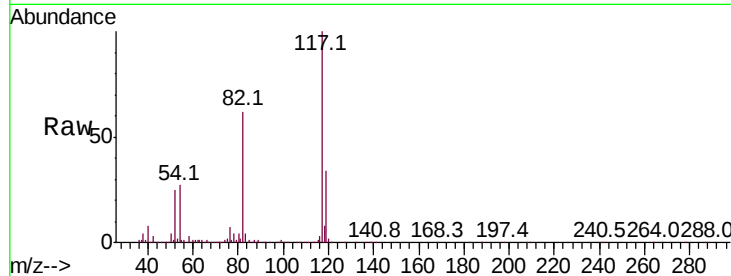




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.00 min
Lab File: VL037622.D
Acq: 16 Sep 2021 19:27

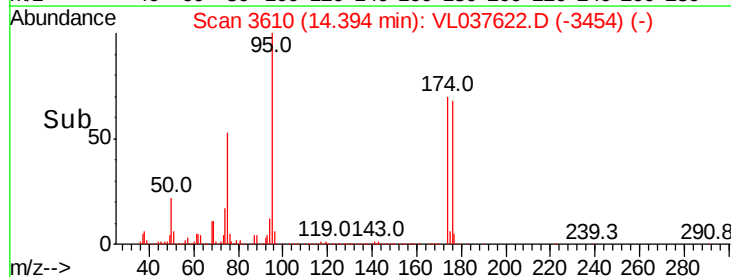
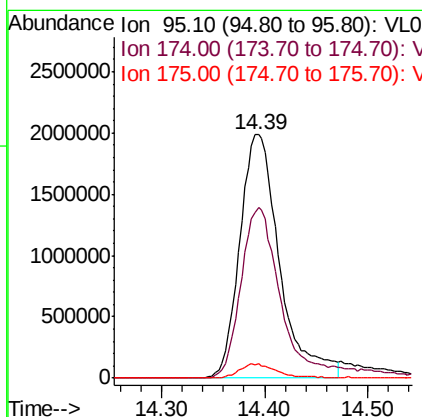
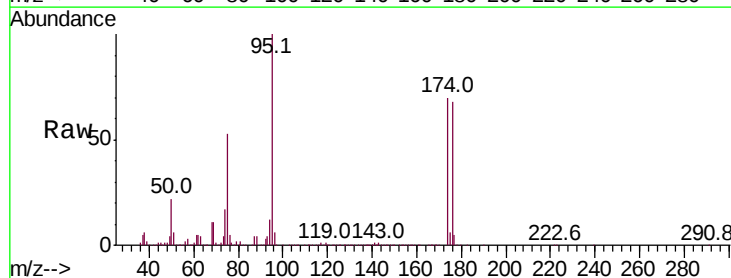
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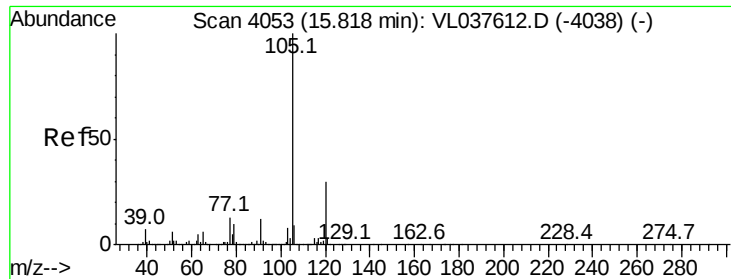
Tot Ion:117 Resp: 5499856
Ion Ratio Lower Upper
117 100
82 64.3 50.6 75.8
119 34.9 26.2 39.2



#68
1-Bromo-4-Fluorobenzene
Concen: 13.427 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL037622.D
Acq: 16 Sep 2021 19:27

Tgt Ion: 95 Resp: 5336719
Ion Ratio Lower Upper
95 100
174 74.7 56.3 84.5
175 5.9 4.4 6.6





#72

4-Ethyltoluene

Concen: 27.407 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. 0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Instrument :

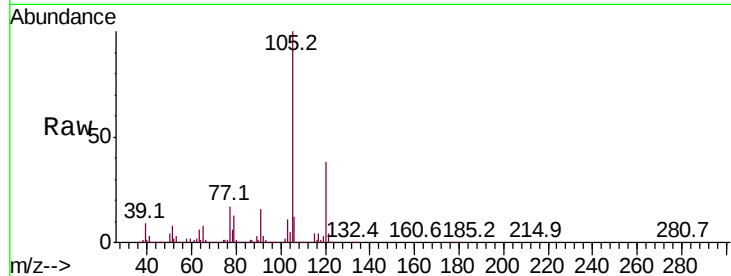
MSVOA_L

ClientSampleId :

E057-1100

Tot Ion:105 Resp:19051731

Ion	Ratio	Lower	Upper
105	100		
120	35.2	24.7	37.1
91	14.9	9.9	14.9
77	15.6	10.5	15.7

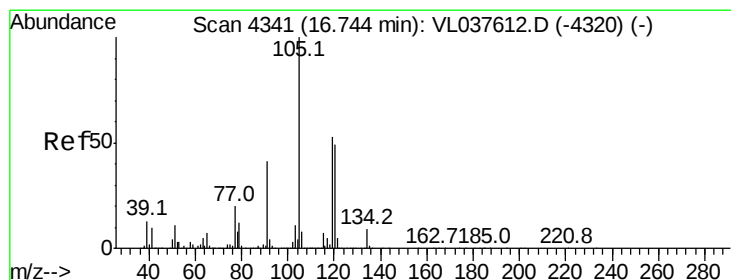
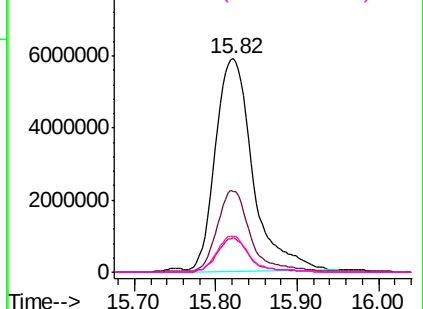
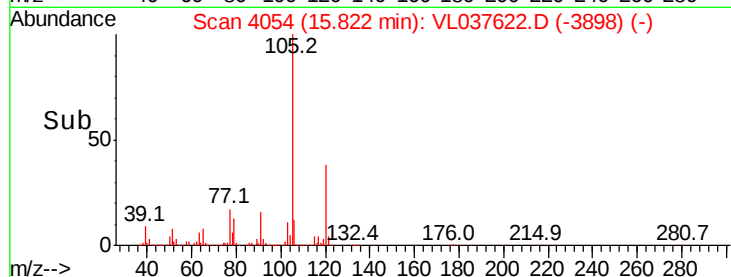


Abundance Ion 105.10 (104.80 to 105.80): V

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: 24.683 ppbv

RT: 16.74 min Scan# 4340

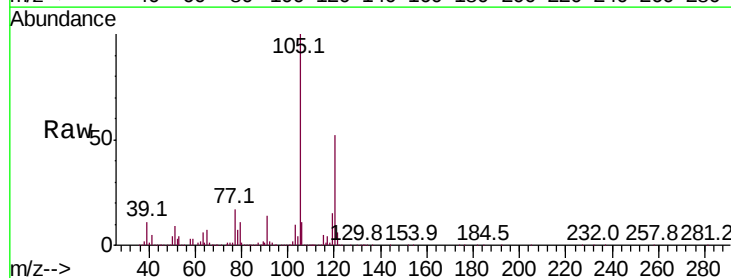
Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Tgt Ion:105 Resp:16845364

Ion	Ratio	Lower	Upper
105	100		
120	52.5	39.4	59.0
91	13.8	33.3	49.9
77	17.3	15.7	23.5

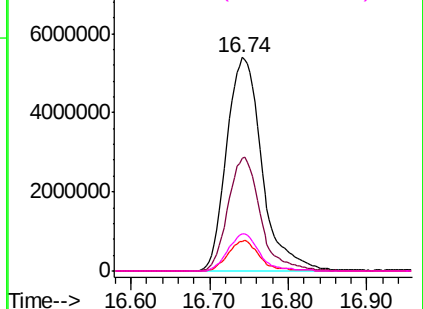
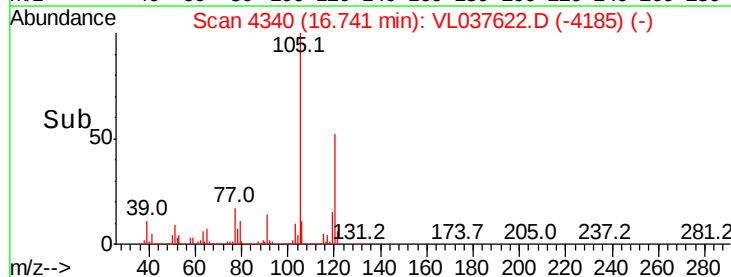


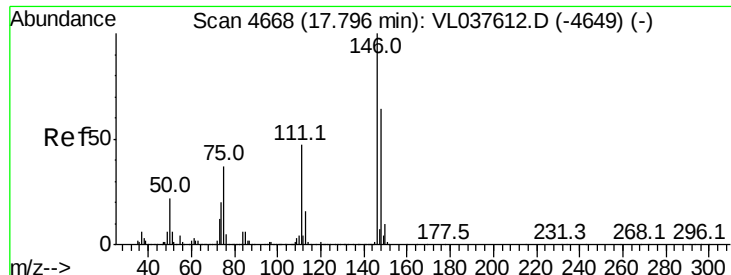
Abundance Ion 105.10 (104.80 to 105.80): V

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: 22.951 ppbv

RT: 17.80 min Scan# 4668

Delta R.T. -0.00 min

Lab File: VL037622.D

Acq: 16 Sep 2021 19:27

Instrument :

MSVOA_L

ClientSampleId :

E057-1100

Tot Ion:146 Resp: 9230206

Ion Ratio Lower Upper

146 100

111 47.9 24.0 72.0

148 65.5 32.8 98.3

