

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037467.D
 Acq On : 16 Aug 2021 18:42
 Operator : SY/AP
 Sample : M3277-01DL 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:28 PM

Quant Time: Aug 17 11:23:25 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 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	1456052	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4360167	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3859348	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2750383	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	1386687	13.918	ppbv	89
11) Trichlorofluoromethane	3.94	101	2024831	9.233	ppbv	97
20) Methylene Chloride	4.33	84	692444	9.333	ppbv	96
24) 1,1-Dichloroethane	5.00	63	1197123	7.557	ppbv	99
26) Hexane	5.68	57	2157902	11.732	ppbv #	45
35) Carbon Tetrachloride	7.01	117	1211143	4.700	ppbv	98
39) 1,2-Dichloropropane	7.60	63	870976	6.184	ppbv	97
42) Bromodichloromethane	7.77	83	2869862	10.810	ppbv	98
72) 4-Ethyltoluene	15.82	105	6547853	12.703	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	4179194	8.197	ppbv #	66
77) 1,2-Dichlorobenzene	17.80	146	2019824m	6.684	ppbv	

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

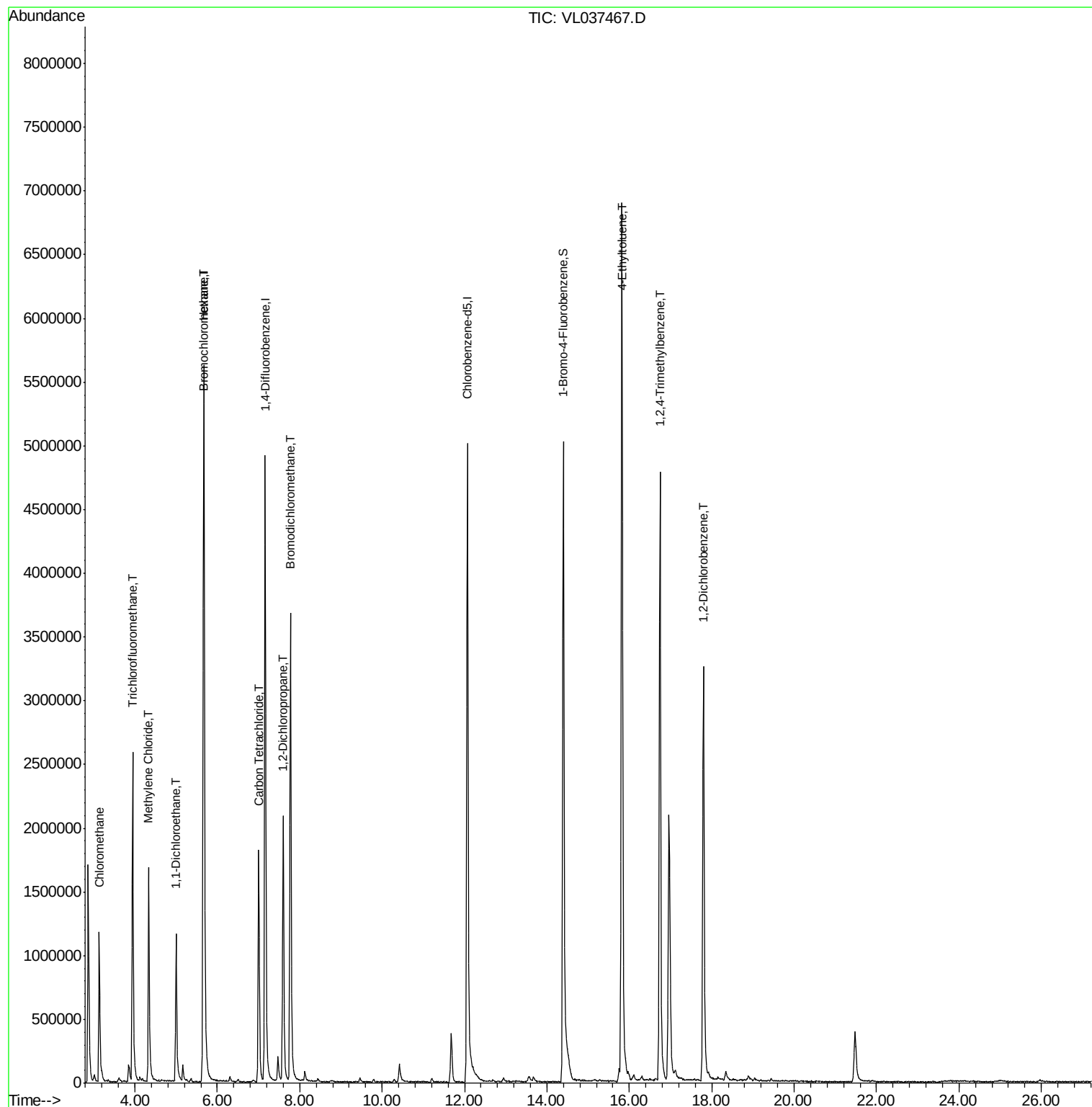
Data Path : Y:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081621\
Data File : VL037467.D
Acq On : 16 Aug 2021 18:42
Operator : SY/AP
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Misc : 400mL/MSVOA L
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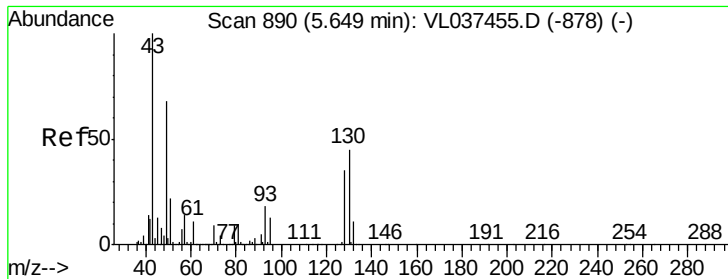
Instrument :
MSVOA_L
ClientSampleId :
E057-1100DL

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Quant Time: Aug 17 11:23:25 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion: 49 Resp: 1456052

Ion Ratio Lower Upper

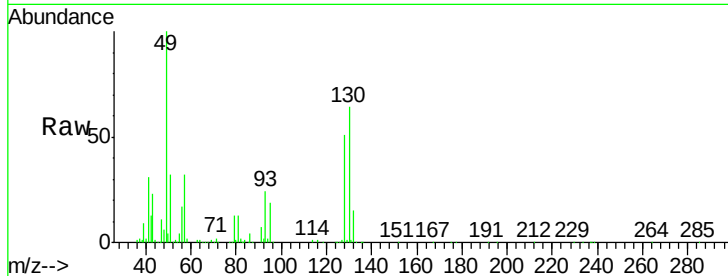
49 100

128 55.4 27.5 82.4

130 69.9 34.0 101.8

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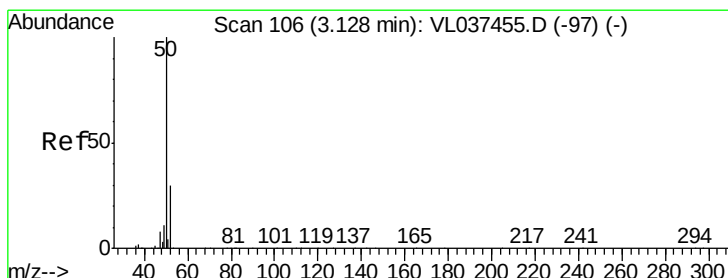
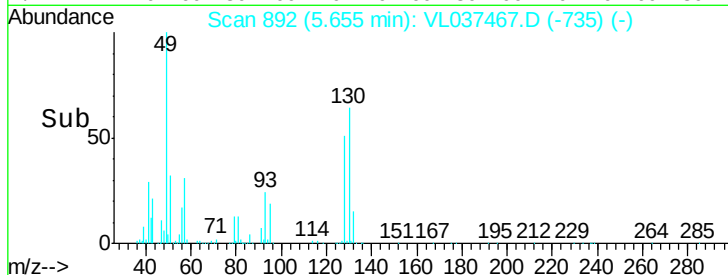
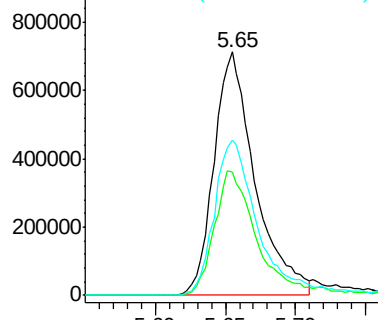
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 13.918 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037467.D

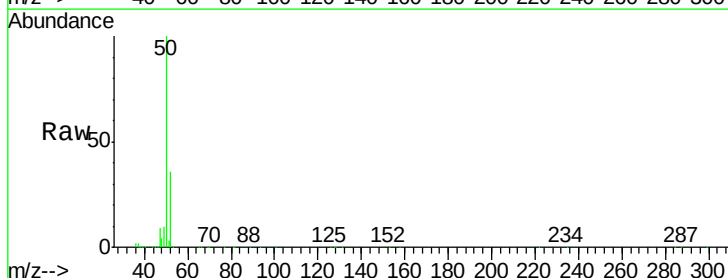
Acq: 16 Aug 2021 18:42

Tgt Ion: 50 Resp: 1386687

Ion Ratio Lower Upper

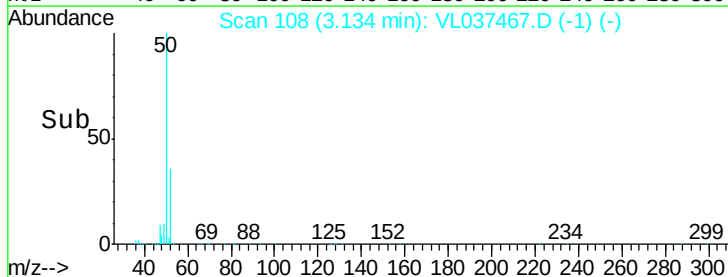
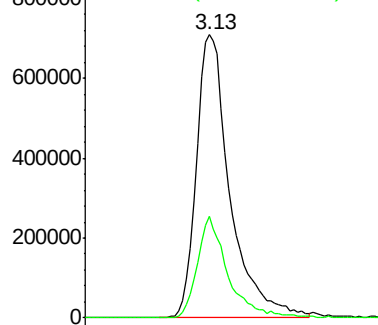
50 100

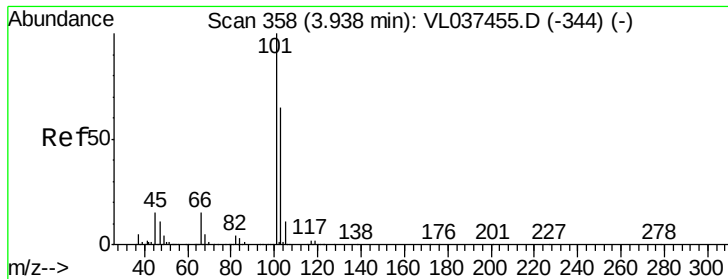
52 35.7 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#11

Trichlorofluoromethane

Concen: 9.233 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Tot Ion: 101 Resp: 2024831

Ion Ratio Lower Upper

101 100

103 62.6 51.8 77.6

Instrument :

MSVOA_L

ClientSampleId :

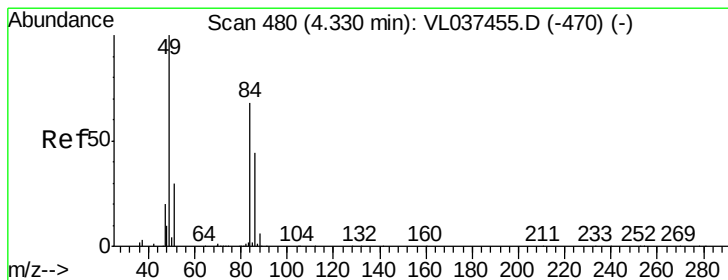
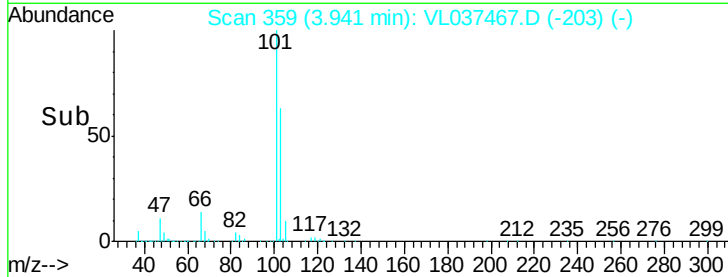
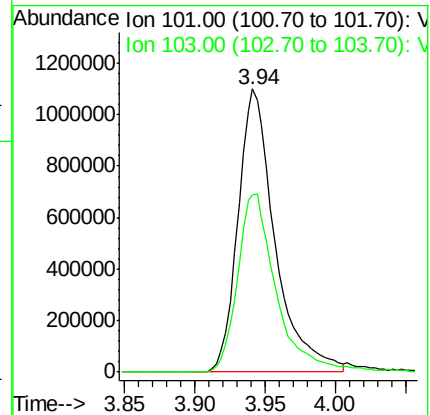
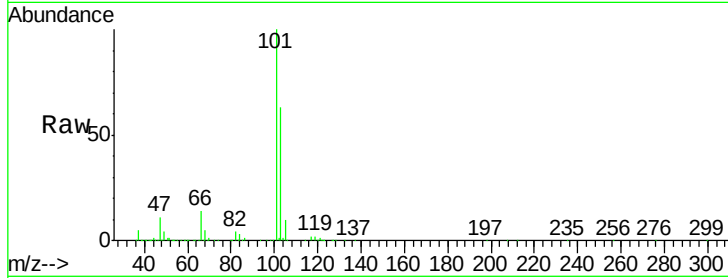
E057-1100DL

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#20

Methylene Chloride

Concen: 9.333 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Tgt Ion: 84 Resp: 692444

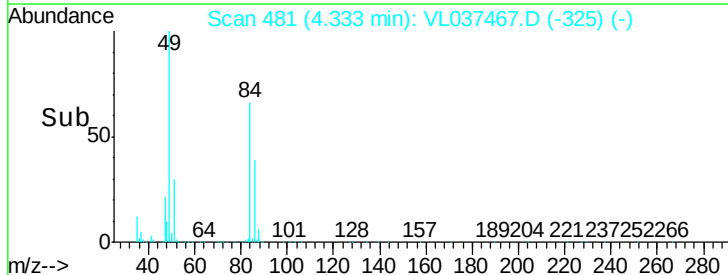
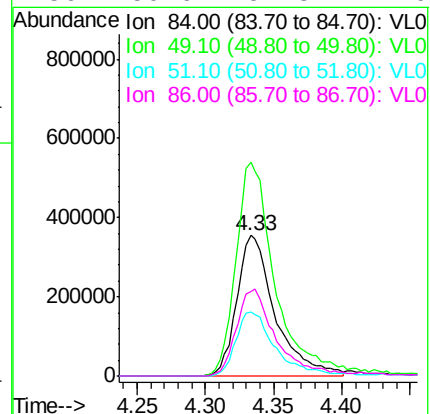
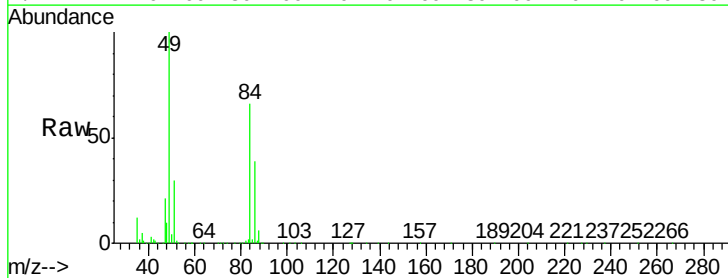
Ion Ratio Lower Upper

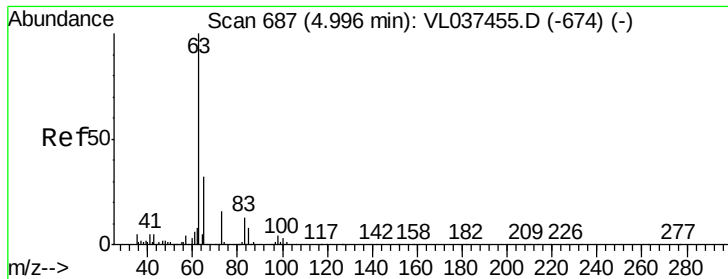
84 100

49 152.3 118.2 177.2

51 45.4 36.6 55.0

86 59.9 51.8 77.6





#24

1,1-Dichloroethane

Concen: 7.557 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.01 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Instrument :

MSVOA_L

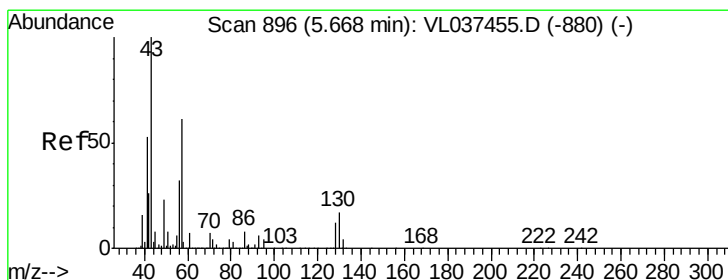
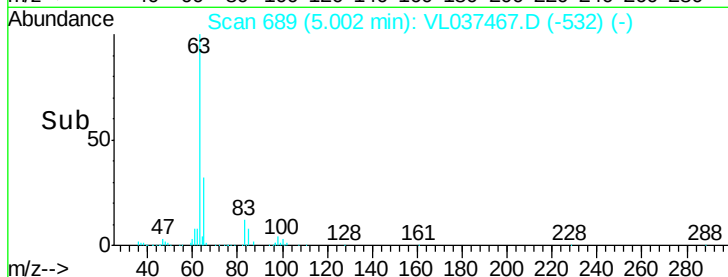
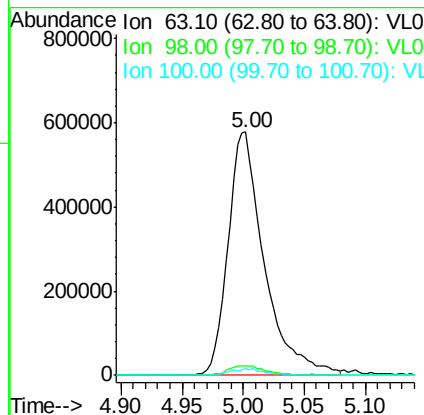
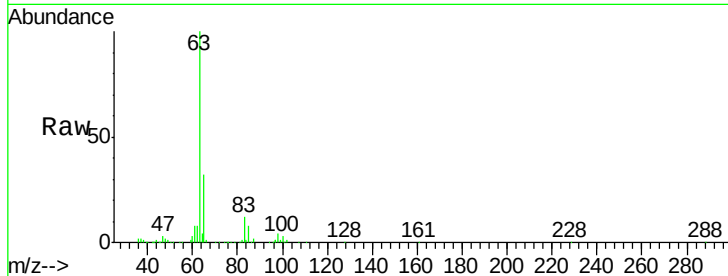
ClientSampleId :

E057-1100DL

Tot Ion:	63	Resp:	1197123
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.1	6.3
100	2.6	1.6	4.7

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#26

Hexane

Concen: 11.732 ppbv

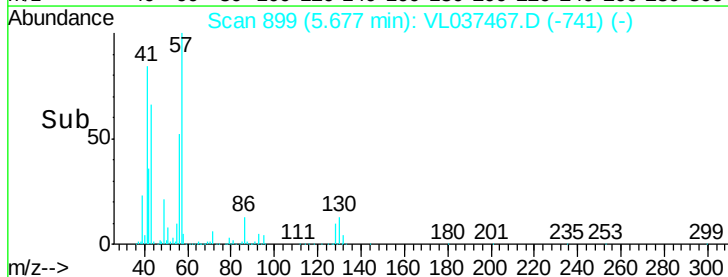
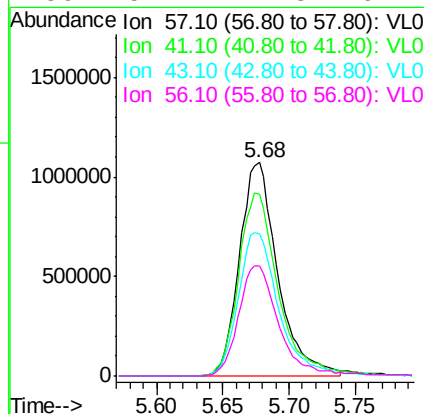
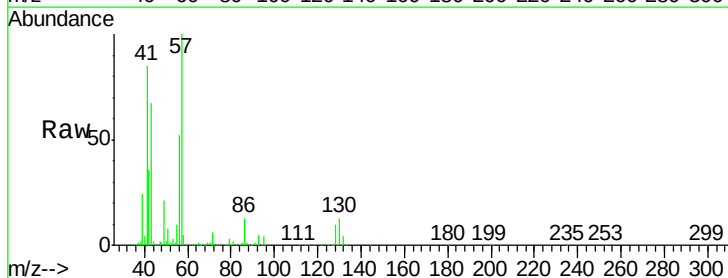
RT: 5.68 min Scan# 899

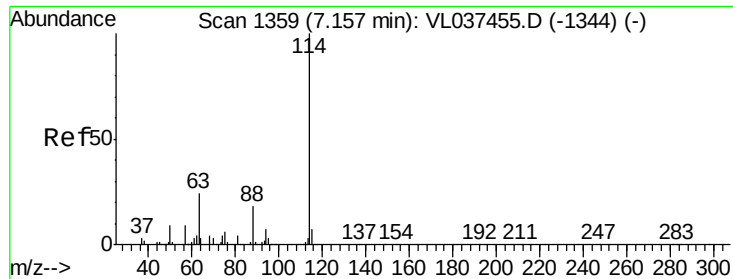
Delta R.T. 0.01 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Tgt Ion:	57	Resp:	2157902
Ion	Ratio	Lower	Upper
57	100		
41	89.7	72.3	108.5
43	71.6	172.3	258.5#
56	54.7	42.8	64.2





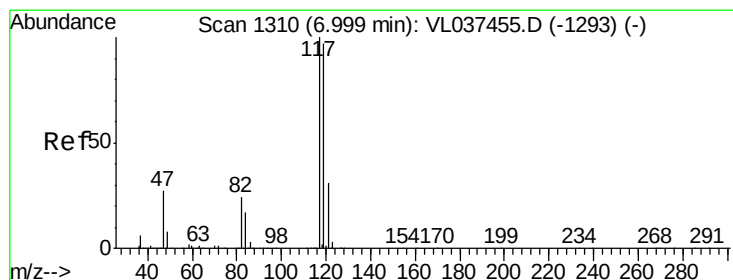
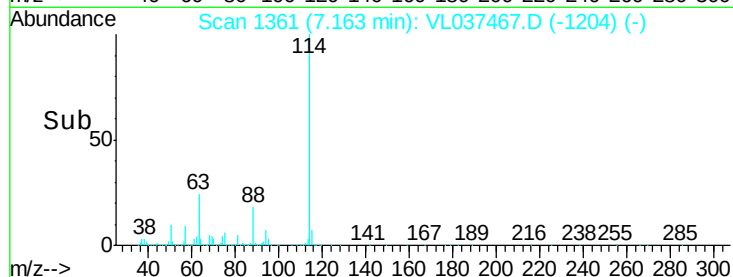
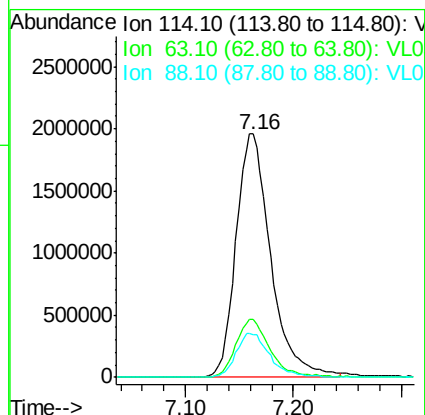
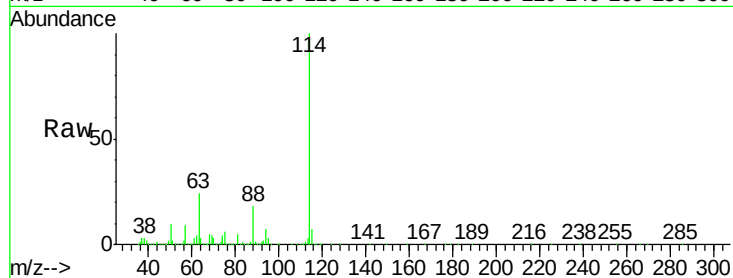
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VL037467.D
 Acq: 16 Aug 2021 18:42

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.3	28.9
88	17.9	14.2	21.4

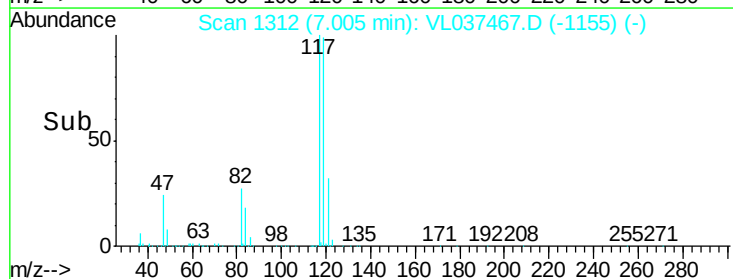
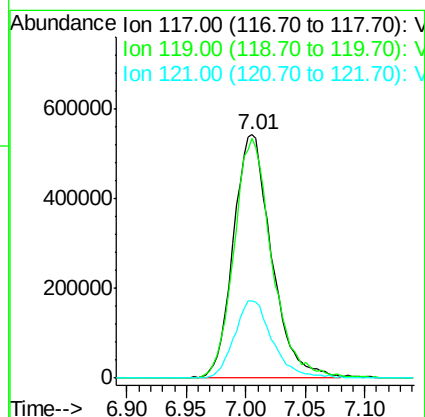
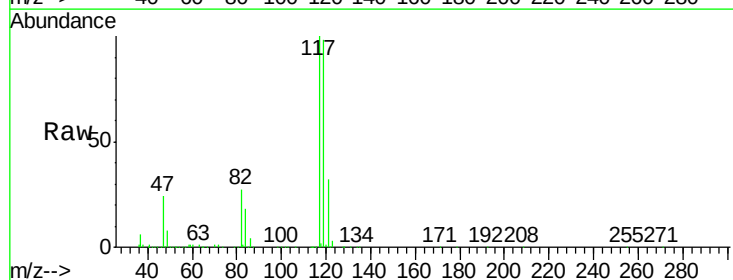
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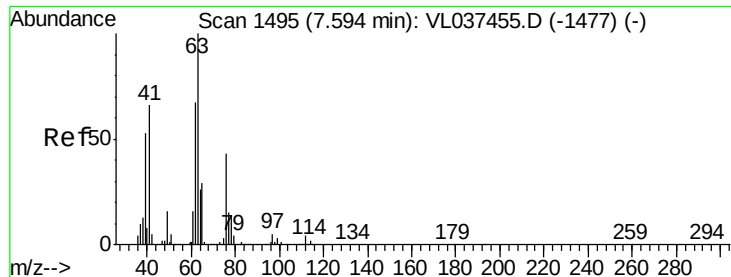
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#35
 Carbon Tetrachloride
 Concen: 4.700 ppbv
 RT: 7.01 min Scan# 1312
 Delta R.T. 0.01 min
 Lab File: VL037467.D
 Acq: 16 Aug 2021 18:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	77.3	115.9
121	31.8	25.2	37.8





#39

1,2-Dichloropropane

Concen: 6.184 ppbv

RT: 7.60 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Instrument :

MSVOA_L

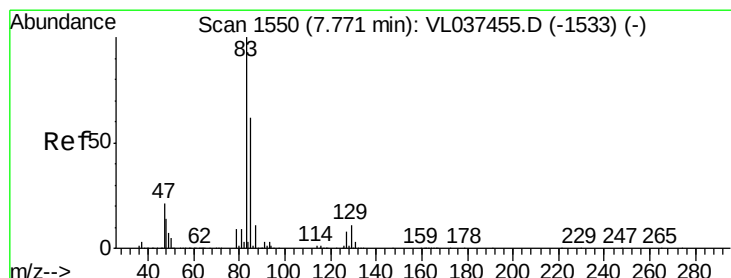
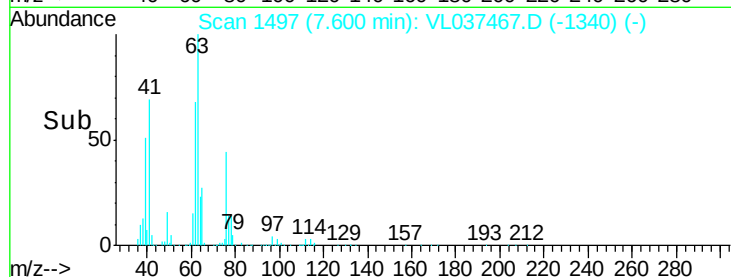
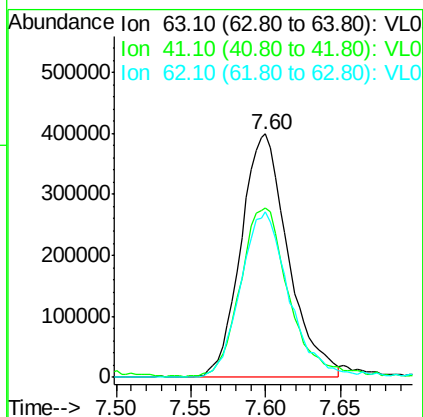
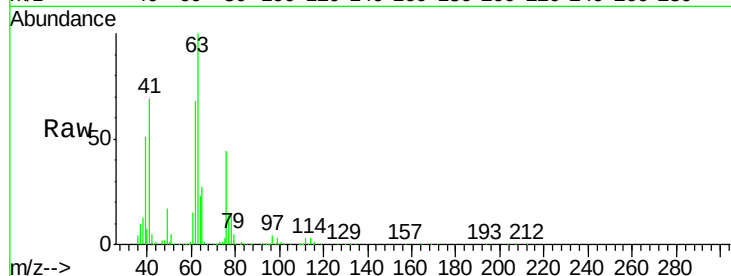
ClientSampleId :

E057-1100DL

Tot Ion:	63	Resp:	870976
Ion Ratio	Lower	Upper	
63	100		
41	69.0	52.4	78.6
62	67.9	53.6	80.4

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#42

Bromodichloromethane

Concen: 10.810 ppbv

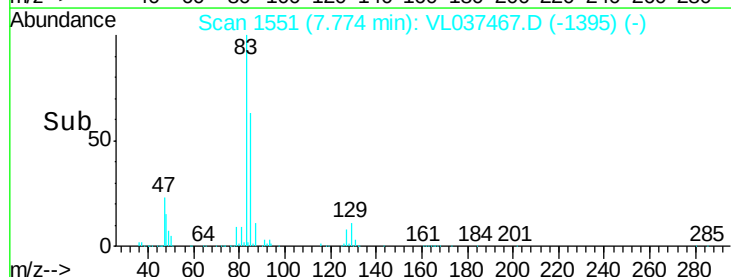
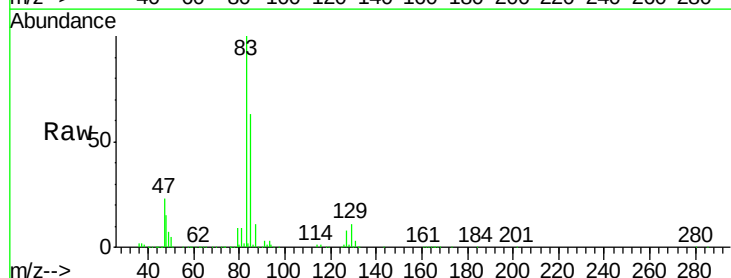
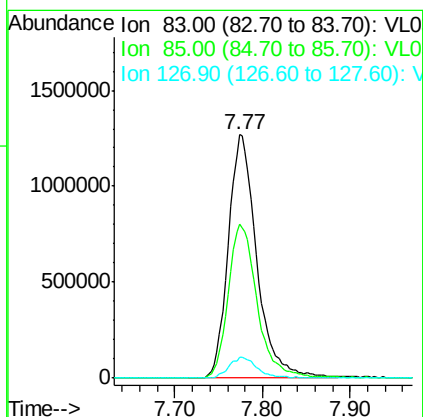
RT: 7.77 min Scan# 1551

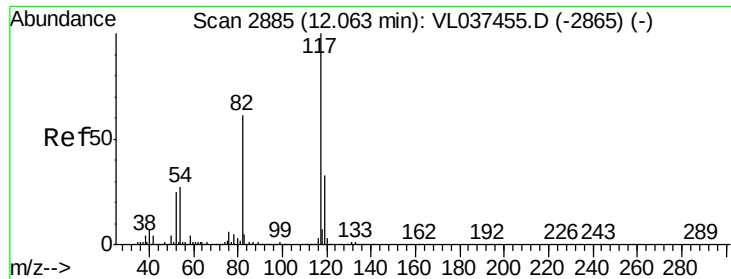
Delta R.T. 0.00 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Tgt Ion:	83	Resp:	2869862
Ion Ratio	Lower	Upper	
83	100		
85	63.2	49.5	74.3
127	8.3	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: VL037467.D

Acq: 16 Aug 2021 18:42

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion:117 Resp: 3859348

Ion Ratio Lower Upper

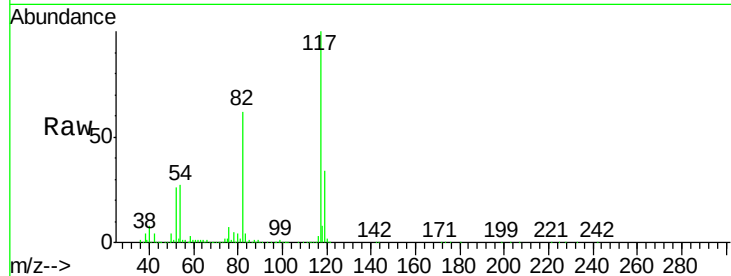
117 100

82 63.5 52.9 79.3

119 34.1 24.8 37.2

Manual Integrations
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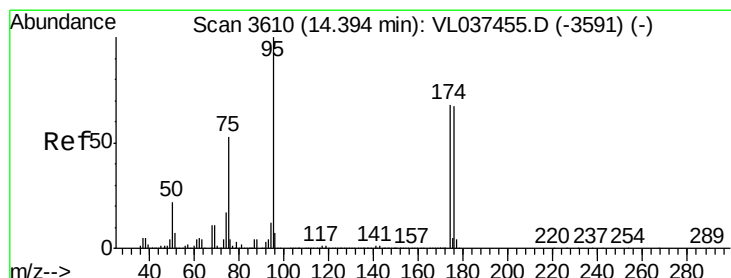
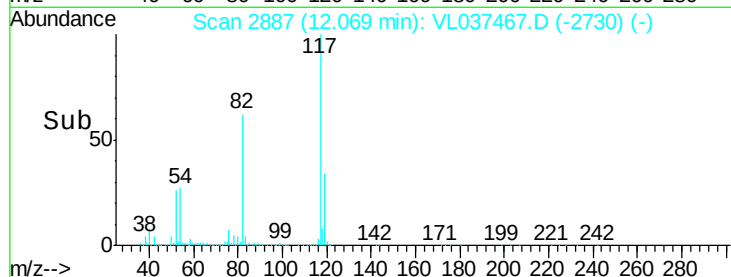
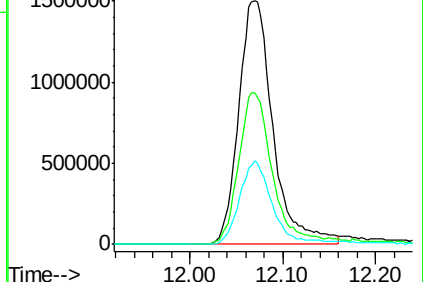
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.031 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

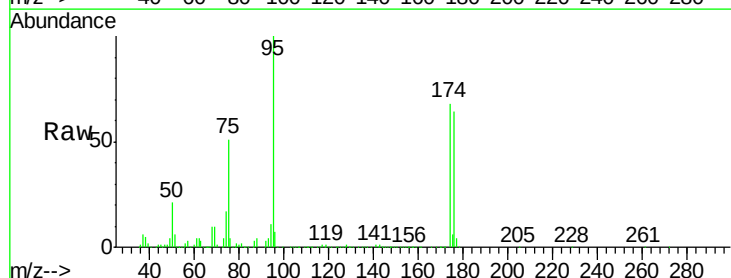
Tgt Ion: 95 Resp: 2750383

Ion Ratio Lower Upper

95 100

174 76.7 59.6 89.4

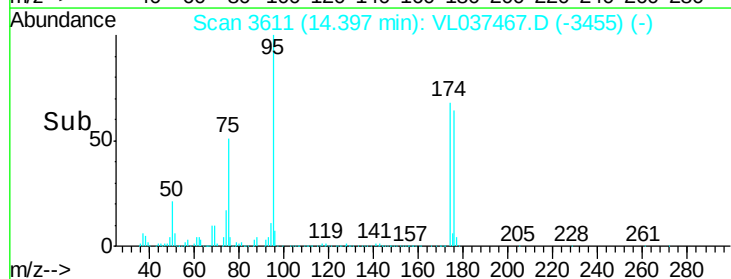
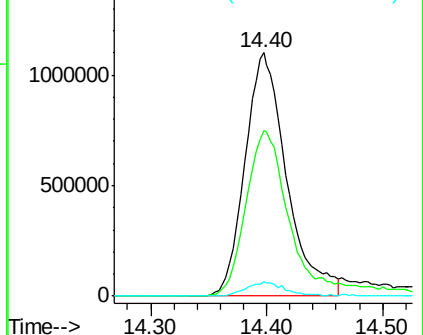
175 5.8 4.6 7.0

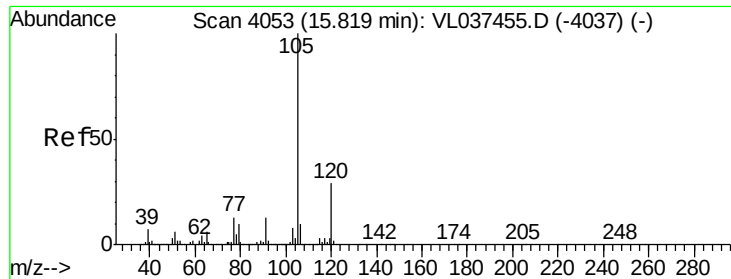


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 12.703 ppbv

RT: 15.82 min Scan# 4055

Delta R.T. 0.01 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion:105 Resp: 6547853

Ion Ratio Lower Upper

105 100

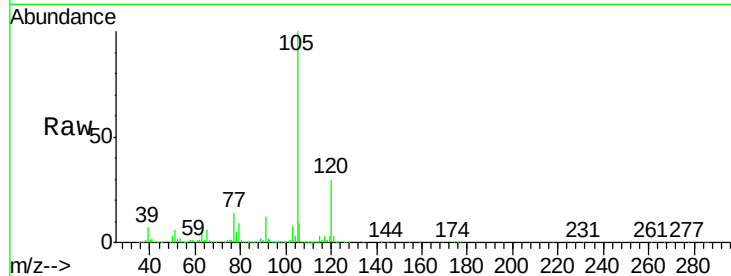
120 31.3 24.7 37.1

91 13.4 9.8 14.8

77 14.0 10.6 15.8

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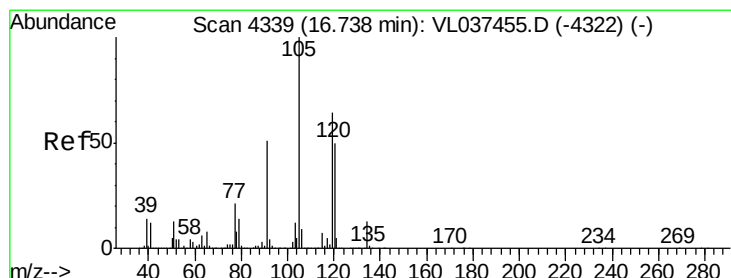
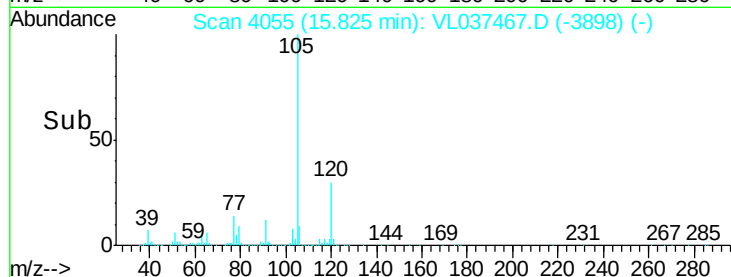
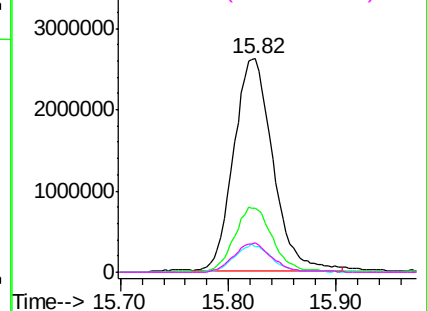


Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.197 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.01 min

Lab File: VL037467.D

Acq: 16 Aug 2021 18:42

Tgt Ion:105 Resp: 4179194

Ion Ratio Lower Upper

105 100

120 44.2 40.4 60.6

91 10.8 44.6 67.0#

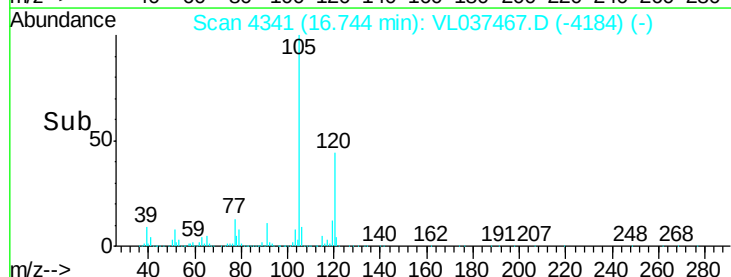
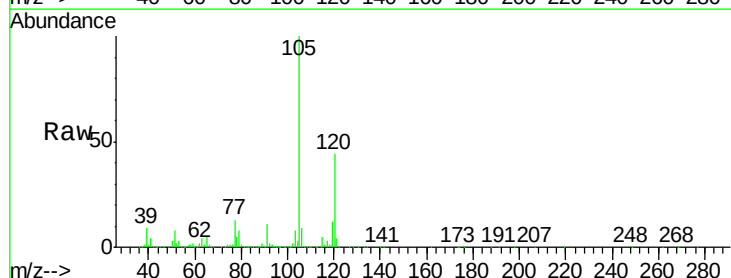
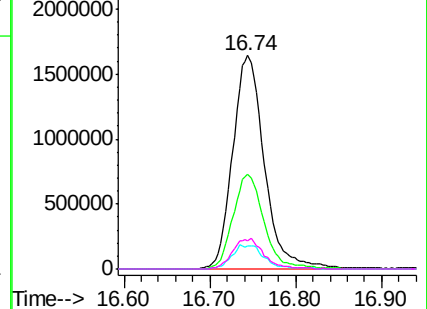
77 13.3 17.8 26.6#

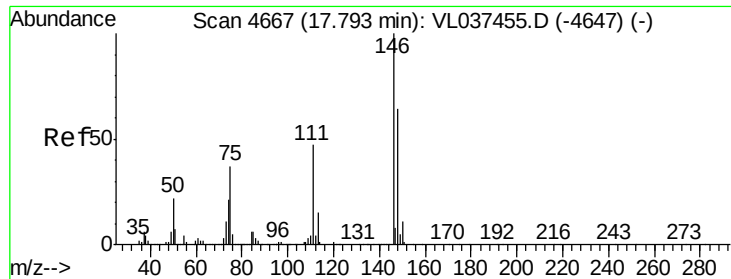
Abundance Ion 105.10 (104.80 to 105.80): V

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: 6.684 ppbv m
 RT: 17.80 min Scan# 4668
 Delta R.T. 0.00 min
 Lab File: VL037467.D
 Acq: 16 Aug 2021 18:42

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.4	70.3
148	0.0	32.5	97.5#

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:28 PM

