

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037424.D
 Acq On : 12 Aug 2021 22:04
 Operator : SY/AP
 Sample : M3239-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 03:07:03 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1247614	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3779230	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3203954	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2112598	9.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

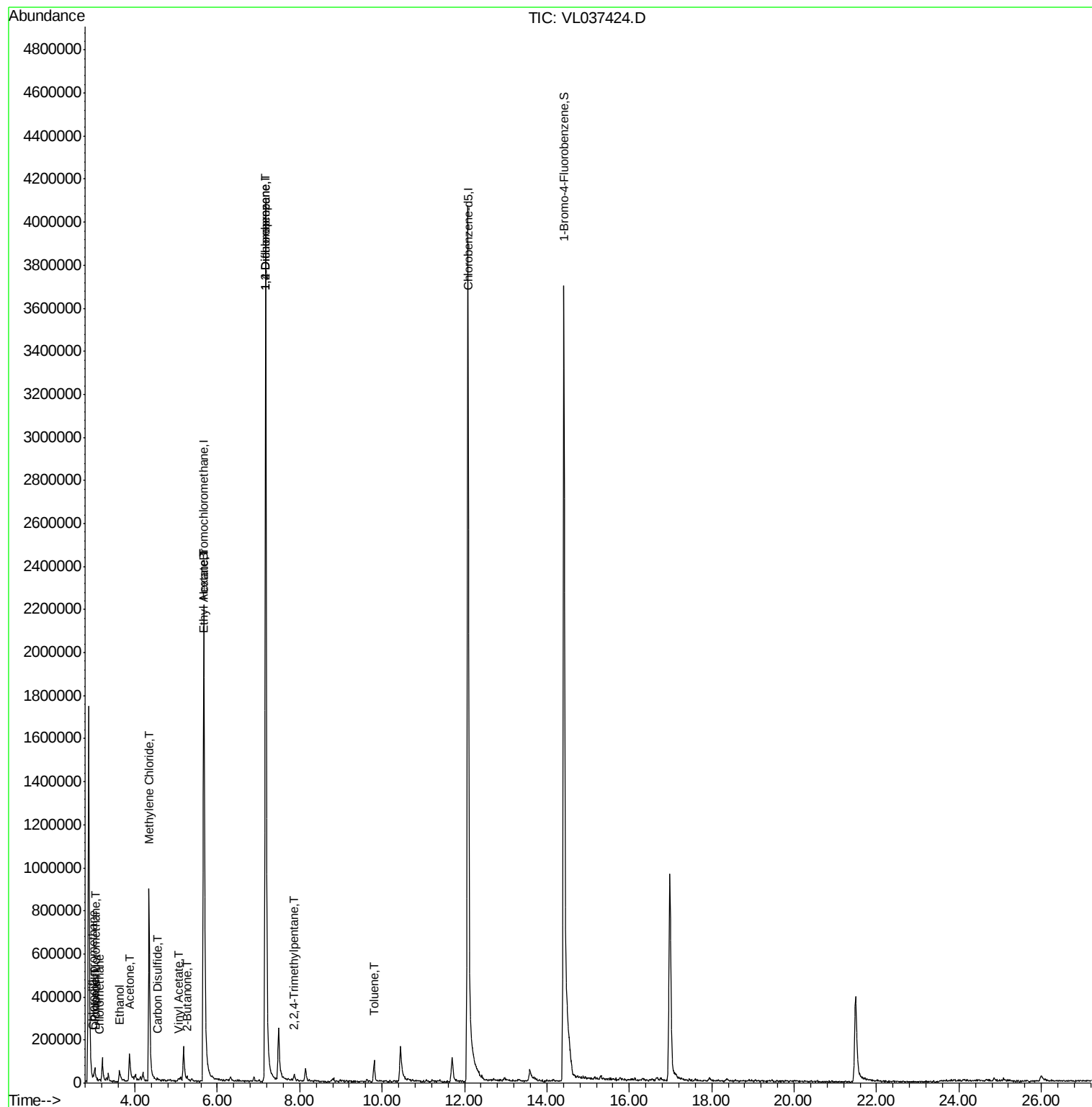
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	11320	0.059 ppbv	94
3) Chlorodifluoromethane	2.99	51	28894	0.118 ppbv	98
4) Chloromethane	3.14	50	7147	0.081 ppbv #	74
9) Propene	3.02	41	12324	0.150 ppbv #	79
13) Ethanol	3.63	45	39551	4.505 ppbv #	49
15) Acetone	3.86	43	135361	1.023 ppbv #	54
20) Methylene Chloride	4.35	84	387663	5.541 ppbv	98
23) Vinyl Acetate	5.07	43	6460	0.032 ppbv #	84
25) Ethyl Acetate	5.69	43	151248	0.480 ppbv #	79
26) Hexane	5.68	57	98135	0.603 ppbv #	1
27) Carbon Disulfide	4.55	76	4526	0.033 ppbv #	58
34) 2-Butanone	5.27	43	11877	0.076 ppbv #	19
39) 1,2-Dichloropropane	7.17	63	871790	7.182 ppbv #	26
44) 2,2,4-Trimethylpentane	7.87	57	22244	0.042 ppbv #	61
53) Toluene	9.80	91	67831	0.186 ppbv	91

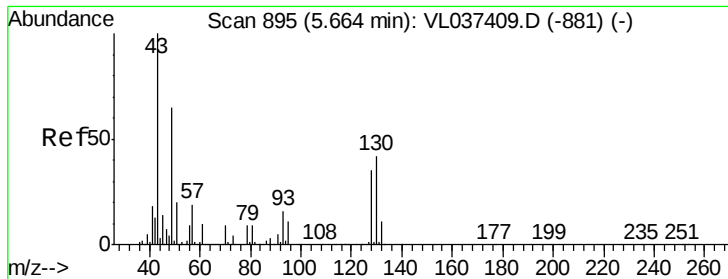
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
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QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

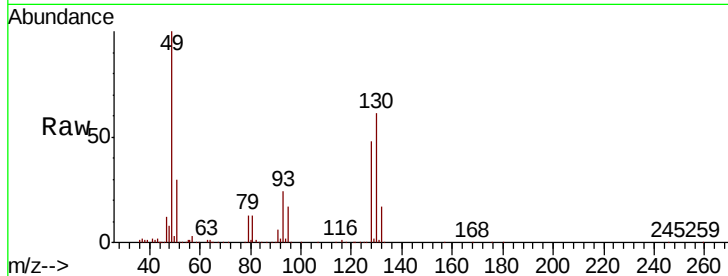
Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1247614

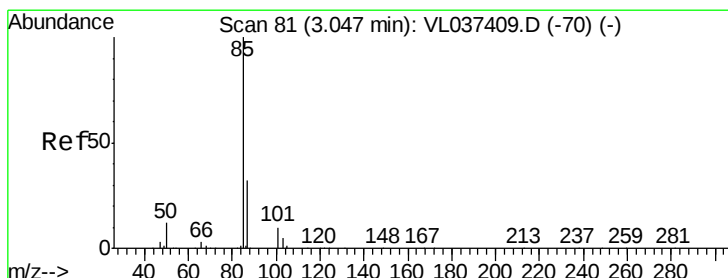
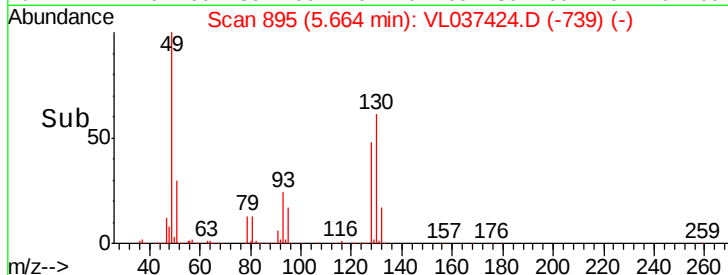
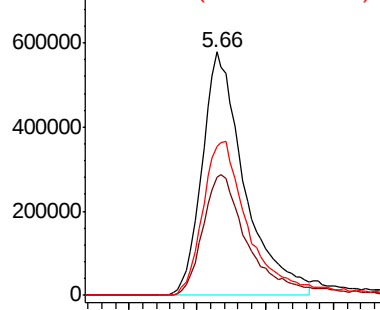
Ion	Ratio	Lower	Upper
49	100		
128	54.2	27.9	83.6
130	71.6	34.6	103.8



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



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.05 min Scan# 82

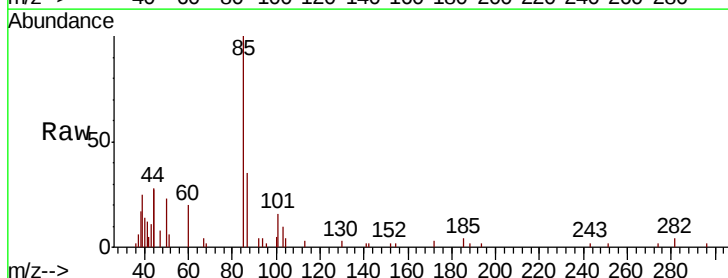
Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

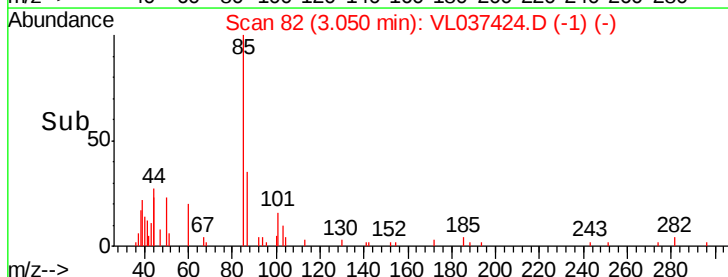
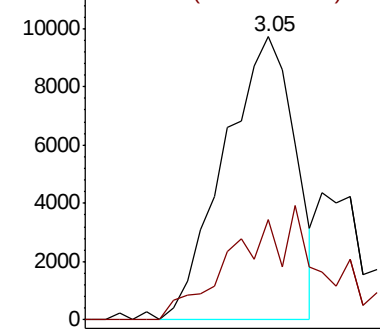
Tgt Ion: 85 Resp: 11320

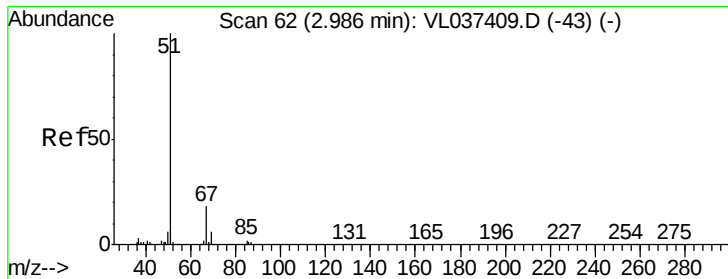
Ion	Ratio	Lower	Upper
85	100		
87	35.3	25.7	38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.118 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :

MSVOA_L

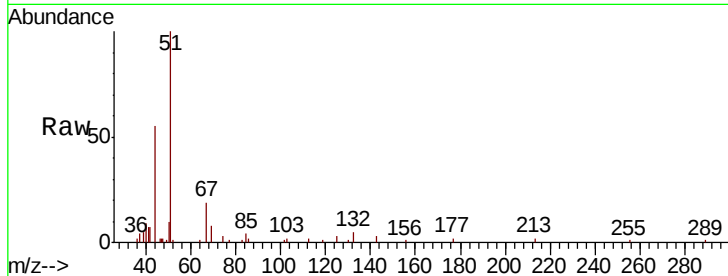
ClientSampleId :

Tot Ion: 51 Resp: 28894

Ion Ratio Lower Upper

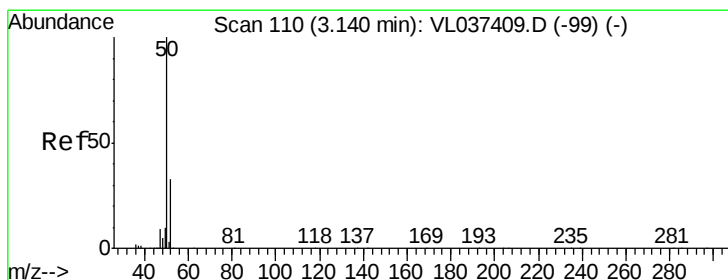
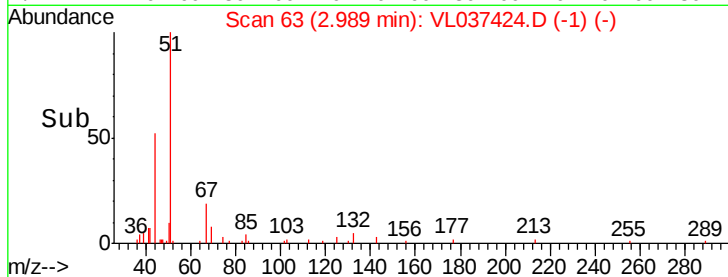
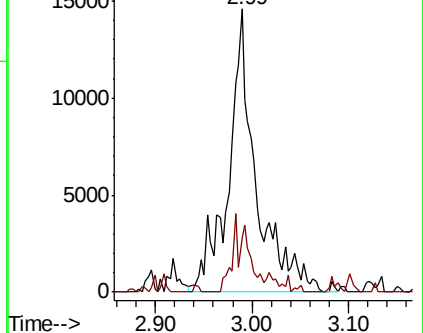
51 100

67 19.3 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.081 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037424.D

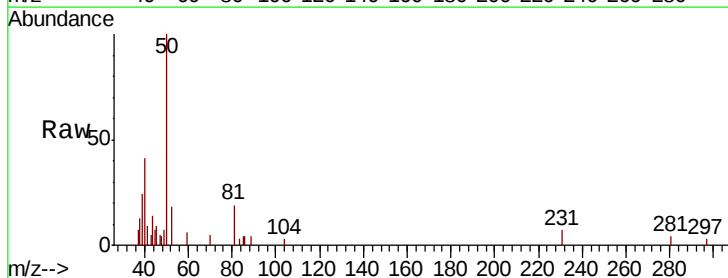
Acq: 12 Aug 2021 22:04

Tgt Ion: 50 Resp: 7147

Ion Ratio Lower Upper

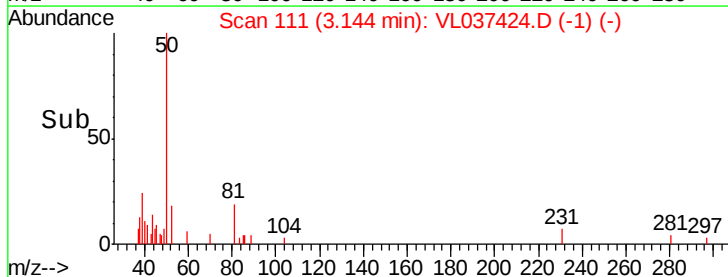
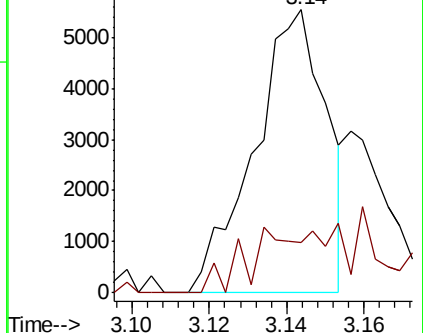
50 100

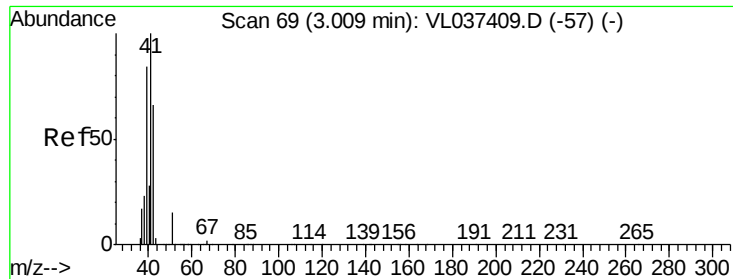
52 17.9 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

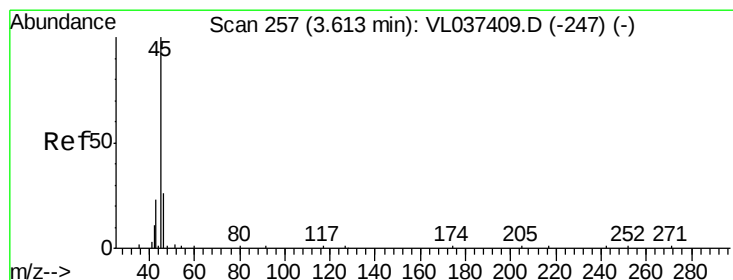
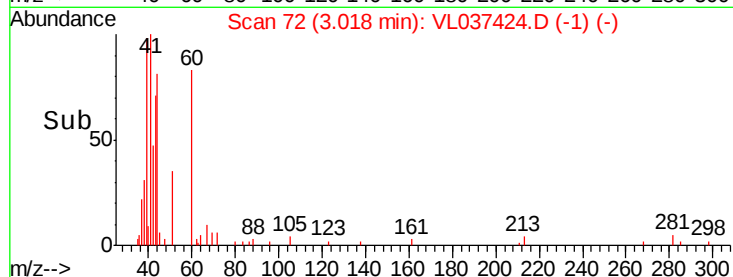
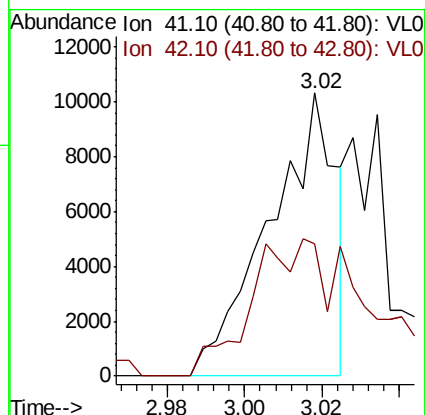
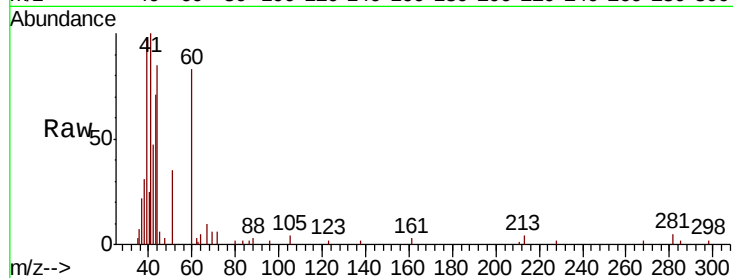




#9
 Propene
 Concen: 0.150 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL037424.D
 Acq: 12 Aug 2021 22:04

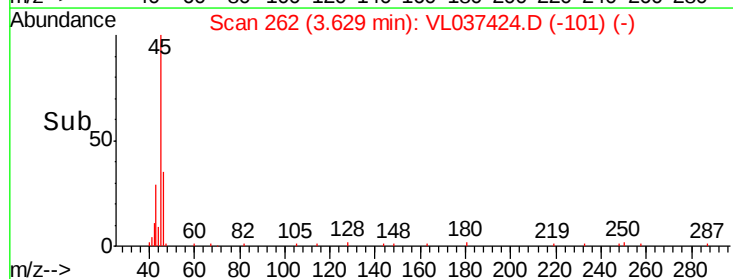
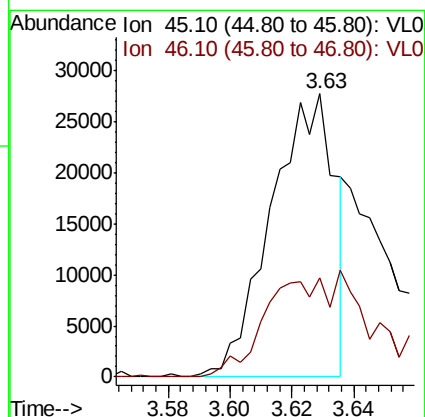
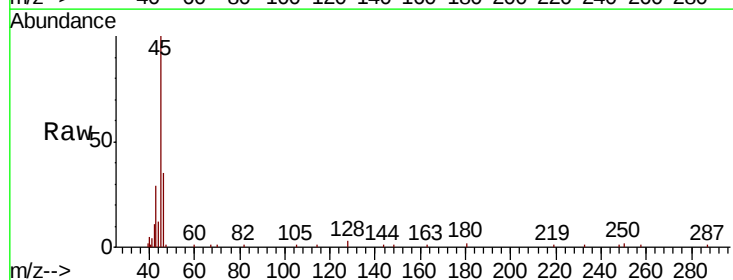
Instrument :
 MSVOA_L
 ClientSampleId :

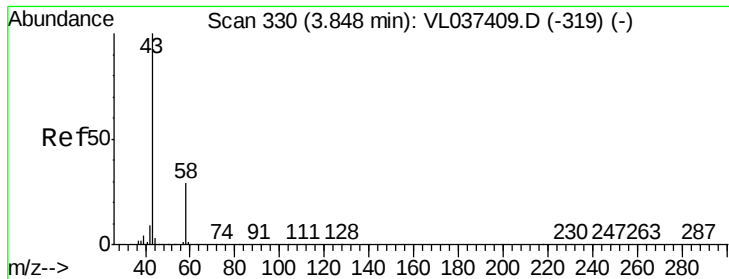
Tot Ion: 41 Resp: 12324
 Ion Ratio Lower Upper
 41 100
 42 84.2 53.8 80.8#



#13
 Ethanol
 Concen: 4.505 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T. 0.02 min
 Lab File: VL037424.D
 Acq: 12 Aug 2021 22:04

Tgt Ion: 45 Resp: 39551
 Ion Ratio Lower Upper
 45 100
 46 78.7 18.0 72.2#





#15

Acetone

Concen: 1.023 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.02 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :

MSVOA_L

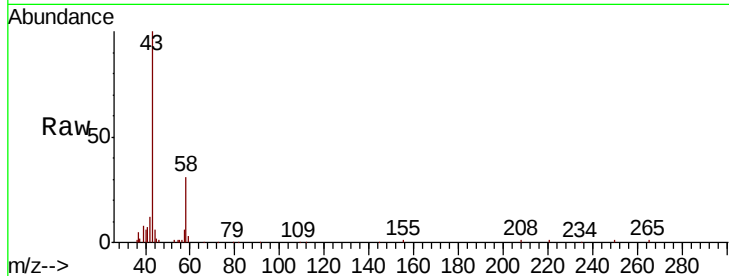
ClientSampleId :

Tot Ion: 43 Resp: 135361

Ion Ratio Lower Upper

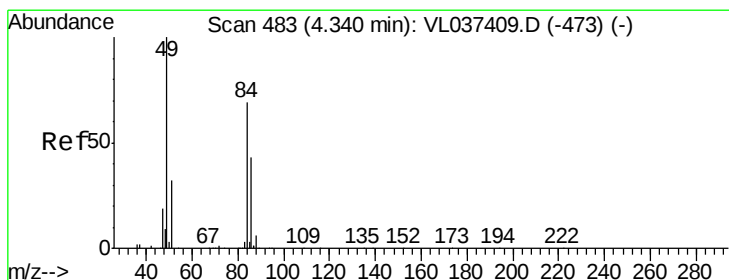
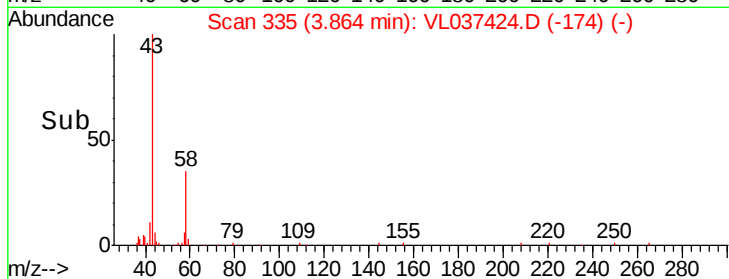
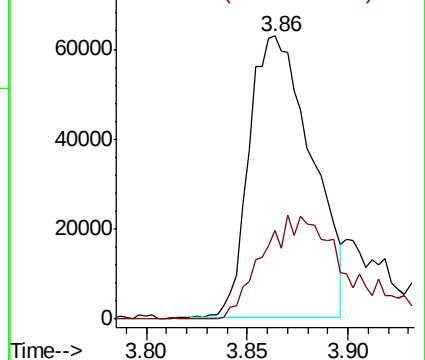
43 100

58 55.8 24.4 36.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 5.541 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Tgt Ion: 84 Resp: 387663

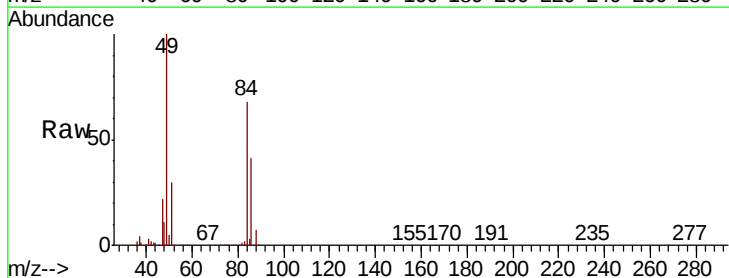
Ion Ratio Lower Upper

84 100

49 146.2 116.0 174.0

51 44.2 37.1 55.7

86 59.9 49.4 74.0

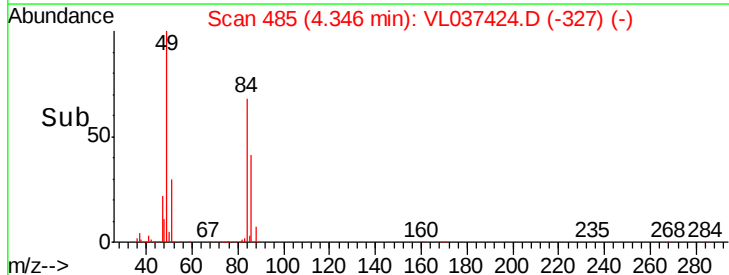
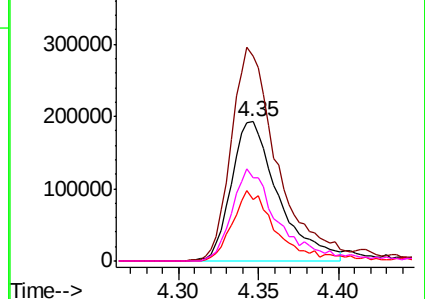


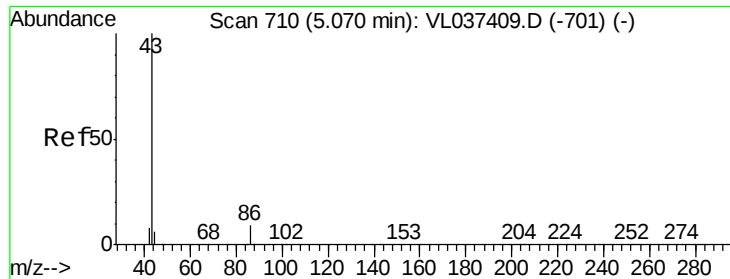
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.032 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 6460

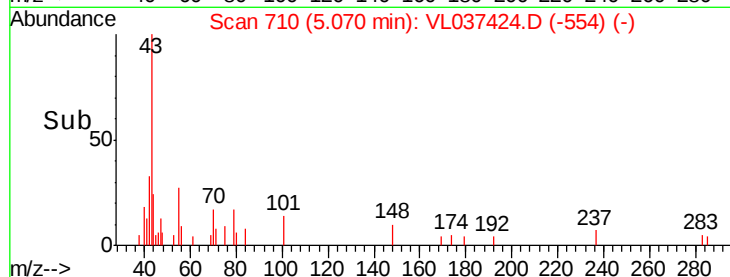
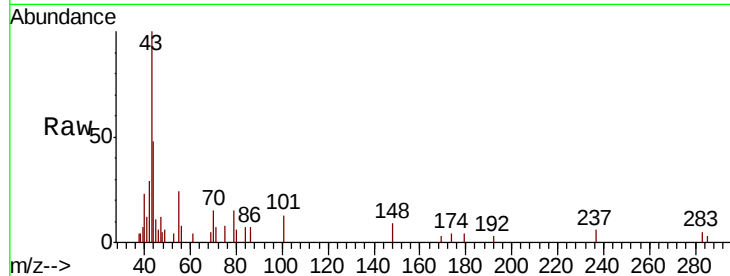
Ion Ratio Lower Upper

43 100

86 6.4 5.8 8.8

42 17.5 7.7 11.5#

44 13.1 4.0 6.0#

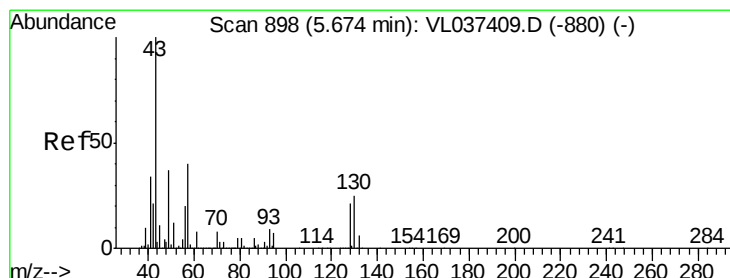
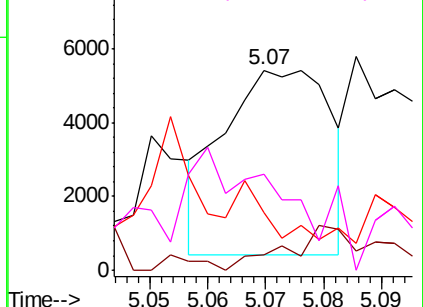


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.480 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Tgt Ion: 43 Resp: 151248

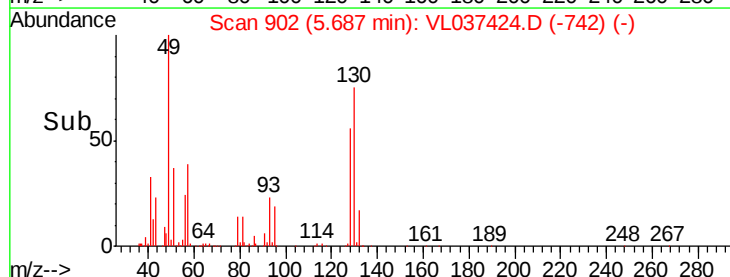
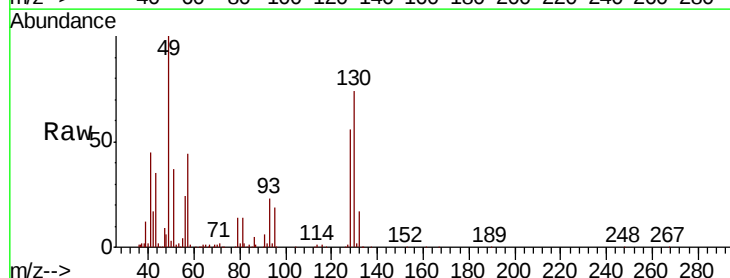
Ion Ratio Lower Upper

43 100

45 1.4 7.9 11.9#

61 0.5 7.7 11.5#

70 2.2 5.8 8.6#

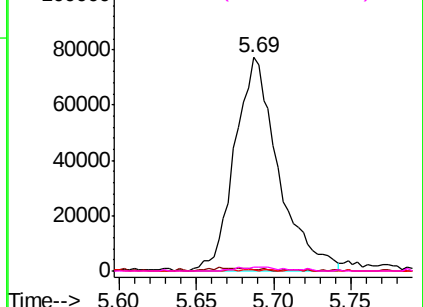


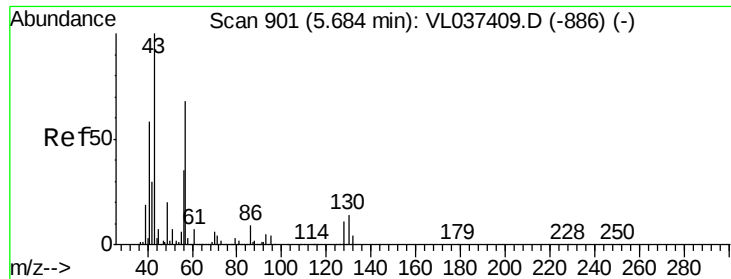
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

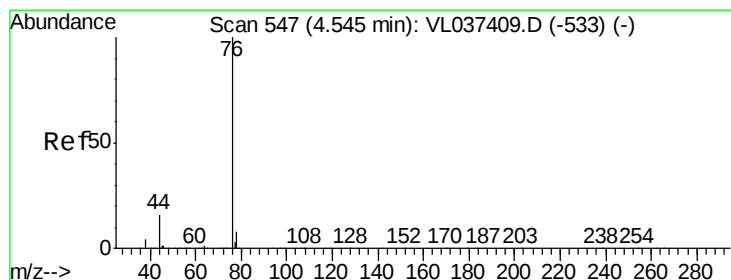
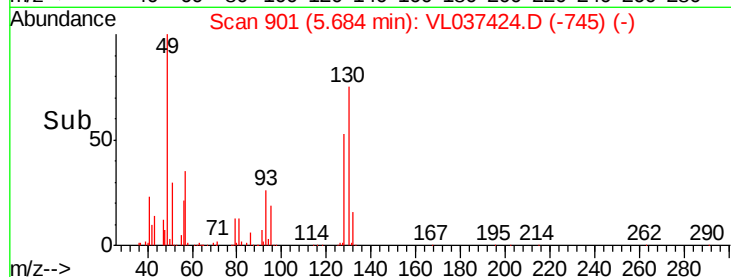
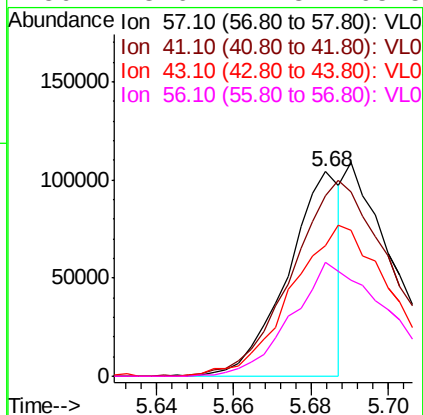
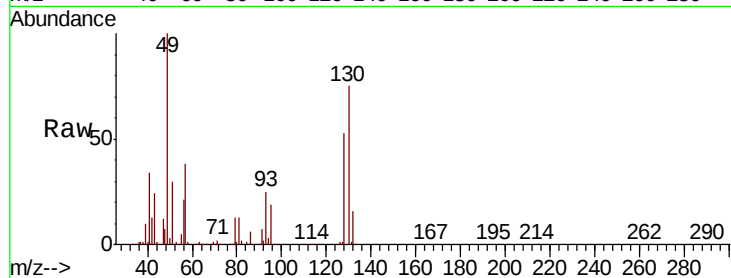




#26
Hexane
Concen: 0.603 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037424.D
Acq: 12 Aug 2021 22:04

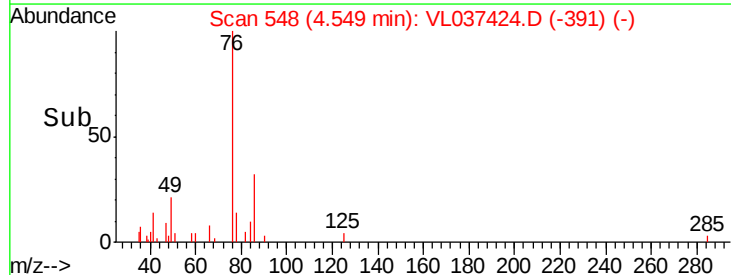
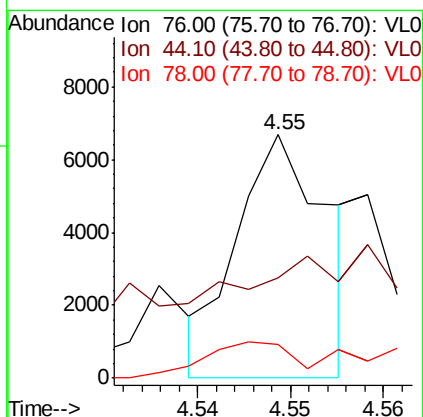
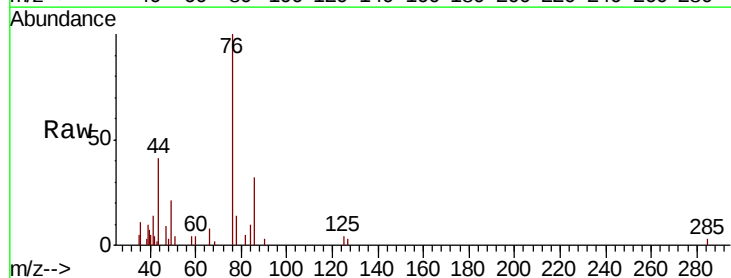
Instrument :
MSVOA_L
ClientSampleId :

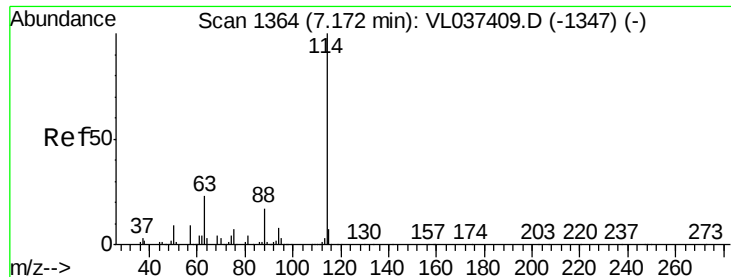
Tot Ion: 57 Resp: 98135
Ion Ratio Lower Upper
57 100
41 0.0 72.5 108.7#
43 0.0 169.3 253.9#
56 113.6 42.3 63.5#



#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.00 min
Lab File: VL037424.D
Acq: 12 Aug 2021 22:04

Tgt Ion: 76 Resp: 4526
Ion Ratio Lower Upper
76 100
44 0.0 14.4 21.6#
78 26.9 8.0 12.0#

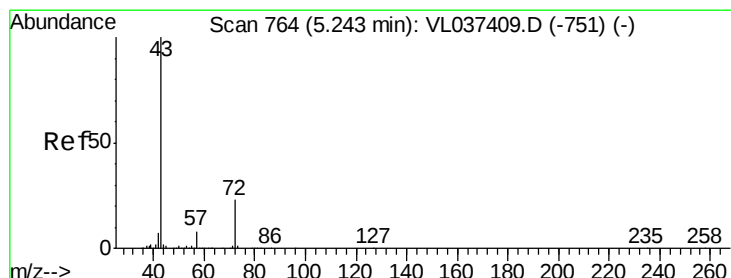
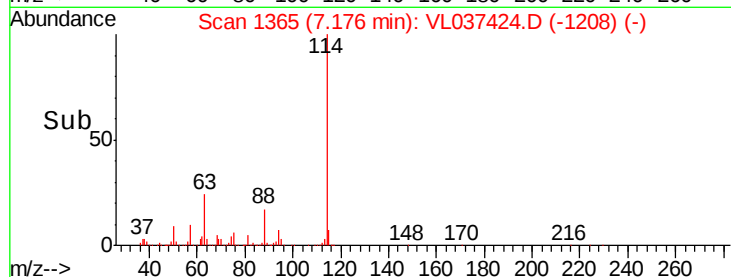
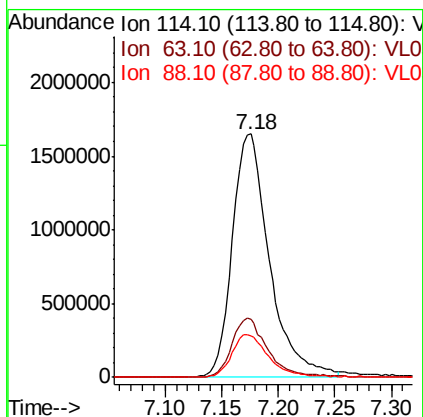
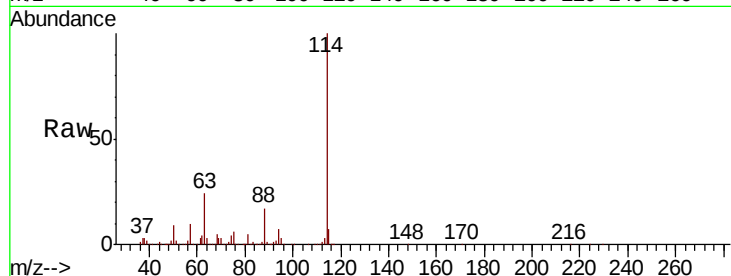




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL037424.D
 Acq: 12 Aug 2021 22:04

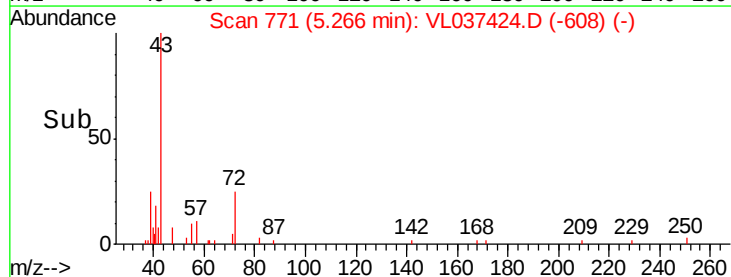
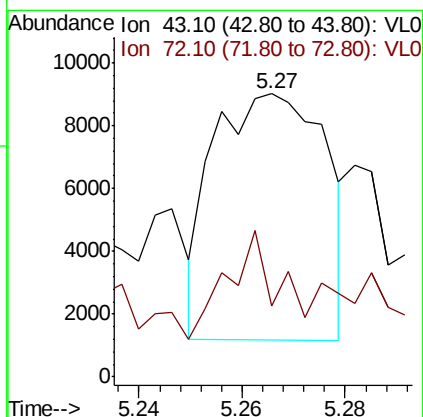
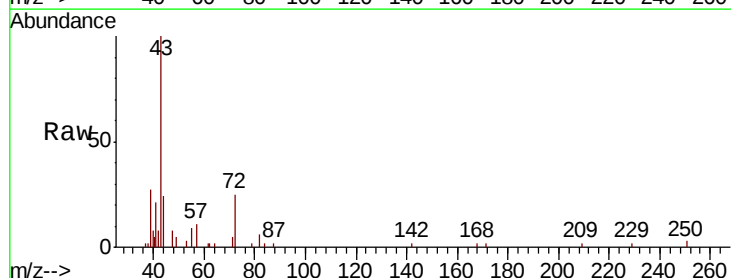
Instrument :
 MSVOA_L
 ClientSampleId :

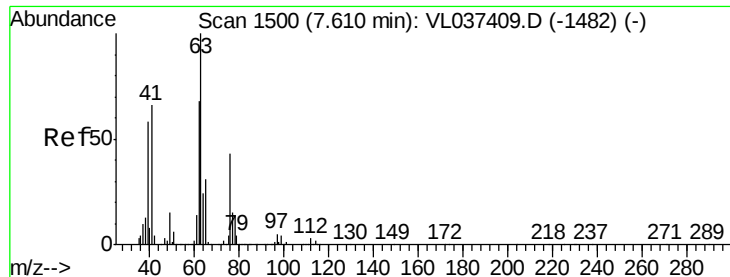
Tot Ion:114 Resp: 3779230
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.4 29.2
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 0.076 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL037424.D
 Acq: 12 Aug 2021 22:04

Tgt Ion: 43 Resp: 11877
 Ion Ratio Lower Upper
 43 100
 72 60.8 17.7 26.5#





#39

1,2-Dichloropropane

Concen: 7.182 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :

MSVOA_L

ClientSampleId :

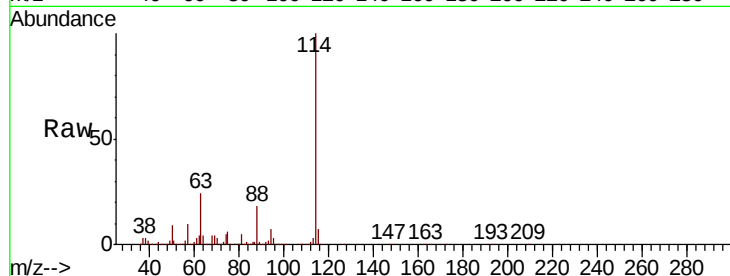
Tot Ion: 63 Resp: 871790

Ion Ratio Lower Upper

63 100

41 0.0 53.0 79.6#

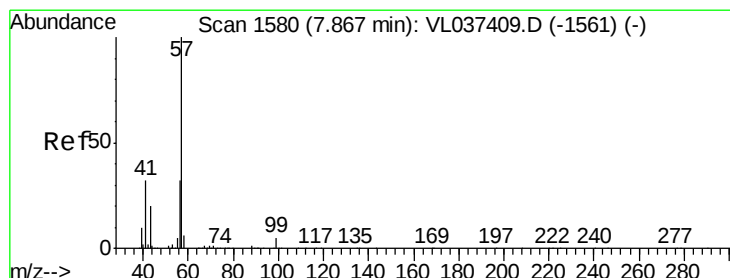
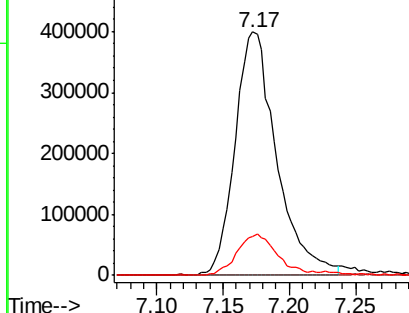
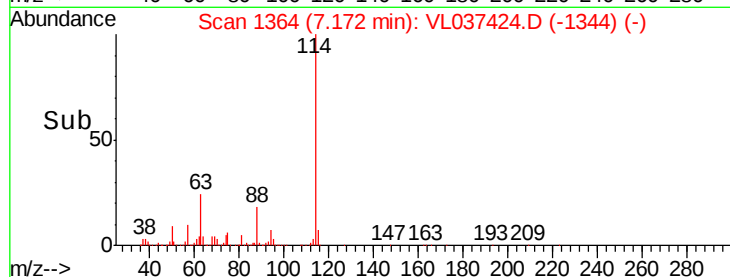
62 15.8 54.5 81.7#



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



#44

2,2,4-Trimethylpentane

Concen: 0.042 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

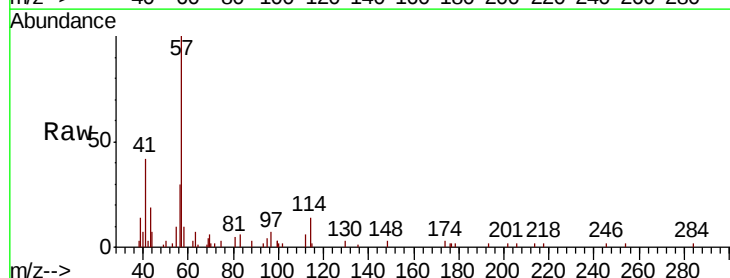
Tgt Ion: 57 Resp: 22244

Ion Ratio Lower Upper

57 100

41 62.0 26.4 39.6#

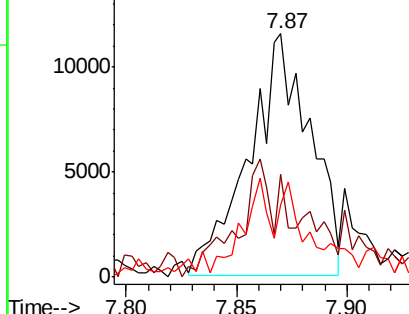
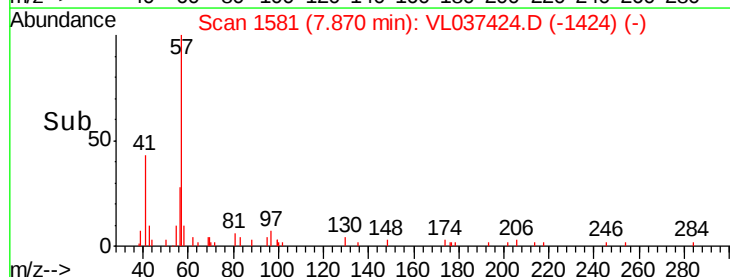
56 45.0 25.0 37.4#

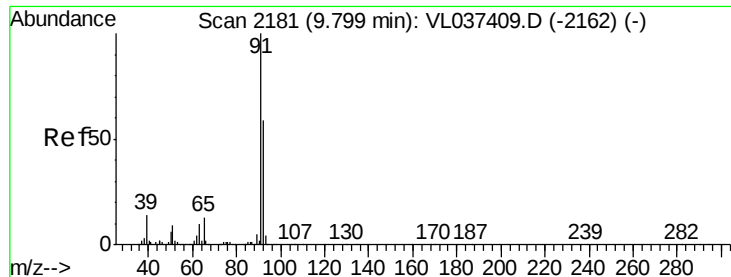


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.186 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :

MSVOA_L

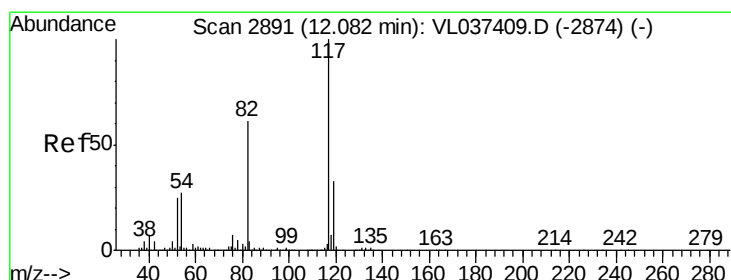
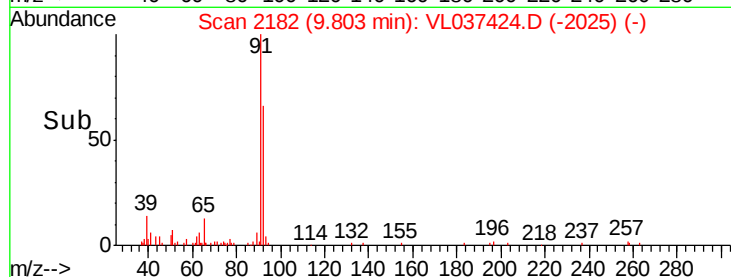
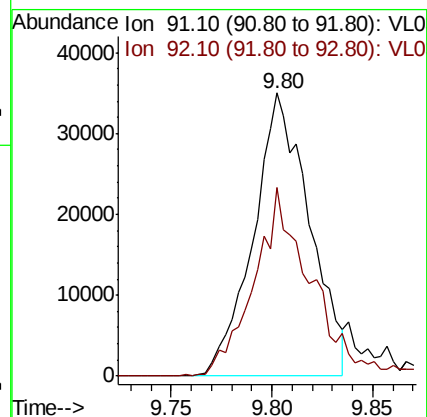
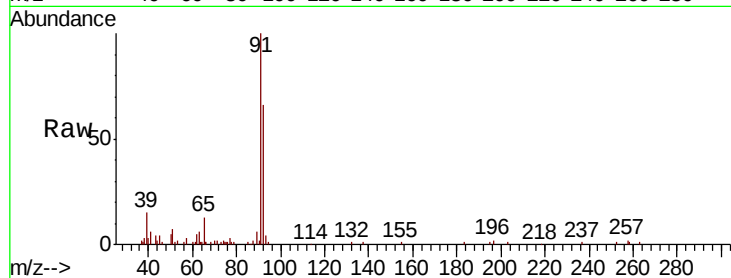
ClientSampleId :

Tot Ion: 91 Resp: 67831

Ion Ratio Lower Upper

91 100

92 68.1 49.0 73.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

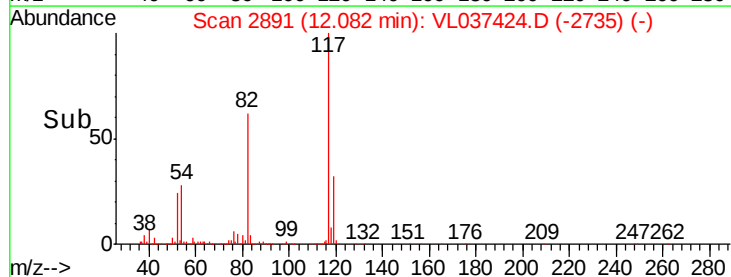
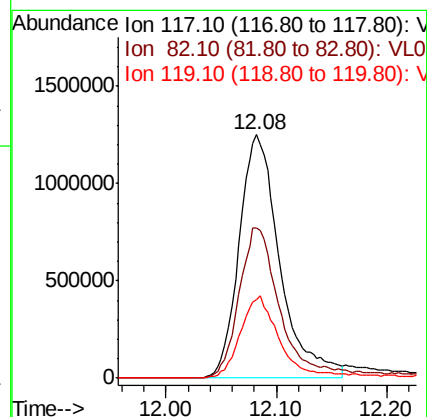
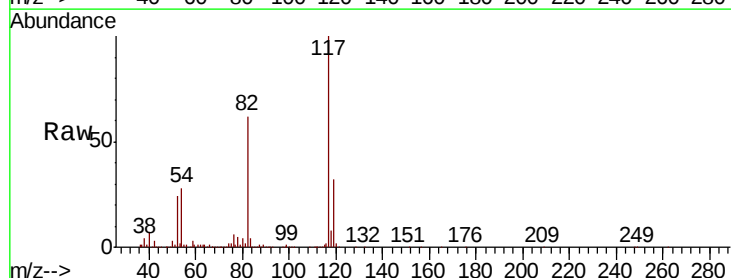
Tgt Ion: 117 Resp: 3203954

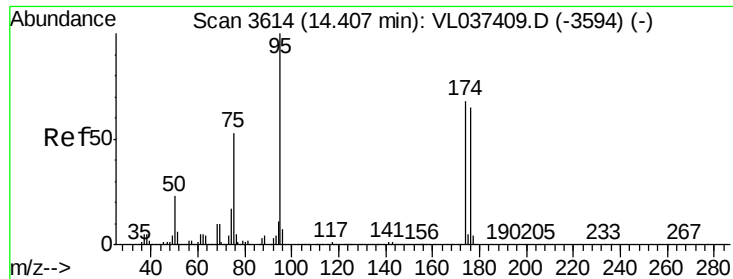
Ion Ratio Lower Upper

117 100

82 67.7 53.1 79.7

119 33.2 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.192 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.00 min

Lab File: VL037424.D

Acq: 12 Aug 2021 22:04

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2112598

Ion Ratio Lower Upper

95 100

174 83.4 59.6 89.4

175 6.1 4.3 6.5

