

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037429.D
 Acq On : 13 Aug 2021 1:19
 Operator : SY/AP
 Sample : M3211-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

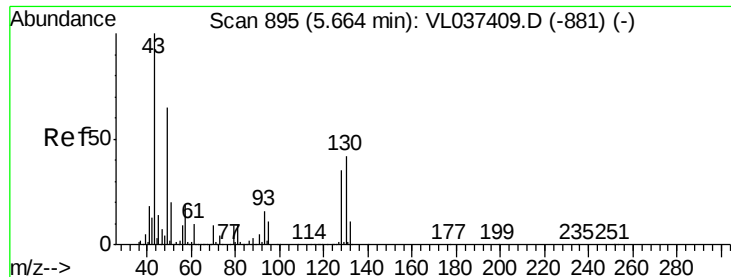
Quant Time: Aug 13 03:08:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1270429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3827466	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3139006	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2230536	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	8260	0.033	ppbv	97
9) Propene	3.01	41	6523	0.078	ppbv #	16
13) Ethanol	3.61	45	9837	1.100	ppbv #	31
15) Acetone	3.85	43	378761	2.811	ppbv #	86
20) Methylene Chloride	4.34	84	476399	6.687	ppbv	99
23) Vinyl Acetate	5.06	43	9011	0.044	ppbv #	76
25) Ethyl Acetate	5.69	43	266160	0.829	ppbv #	77
26) Hexane	5.68	57	371639	2.243	ppbv #	47
34) 2-Butanone	5.25	43	67044	0.424	ppbv #	54
38) Trichloroethene	7.83	130	20961	0.147	ppbv #	84
39) 1,2-Dichloropropane	7.17	63	902820	7.343	ppbv #	26
41) Tetrahydrofuran	6.05	42	224045	3.087	ppbv	94
52) Tetrachloroethene	11.22	164	106442	0.783	ppbv	96
53) Toluene	9.80	91	205745	0.558	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

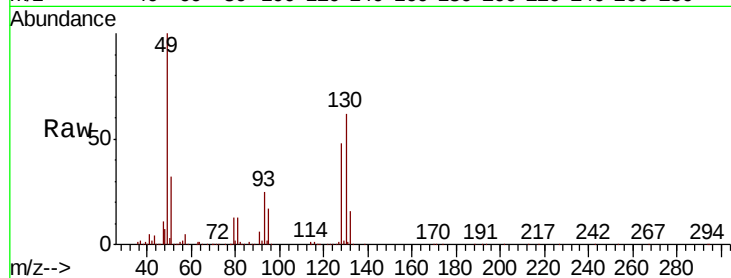
Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1270429

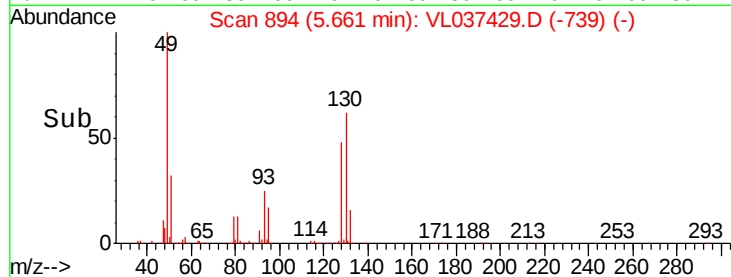
Ion	Ratio	Lower	Upper
49	100		
128	55.0	27.9	83.6
130	70.7	34.6	103.8



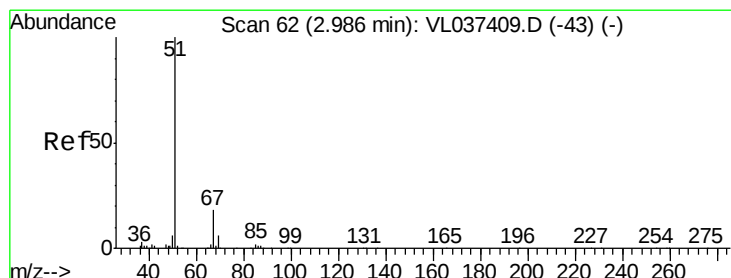
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 2.99 min Scan# 63

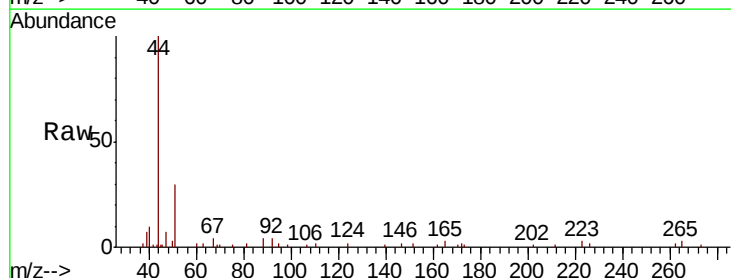
Delta R.T. 0.00 min

Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

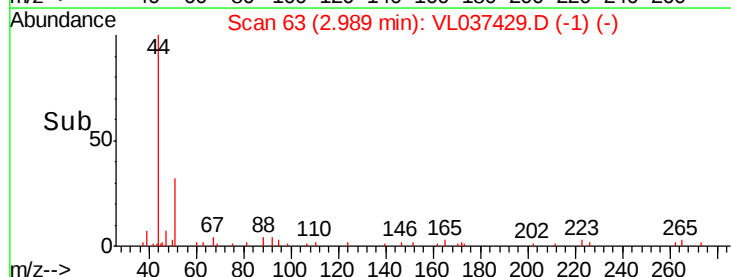
Tgt Ion: 51 Resp: 8260

Ion	Ratio	Lower	Upper
51	100		
67	19.6	14.7	22.1

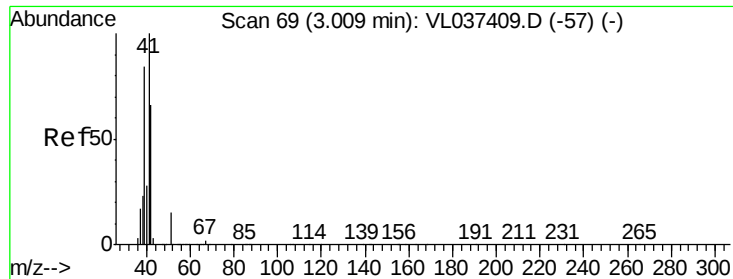


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



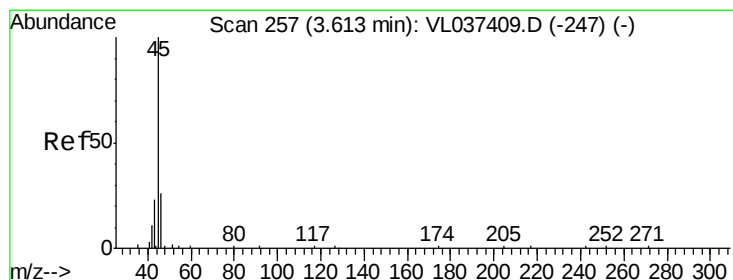
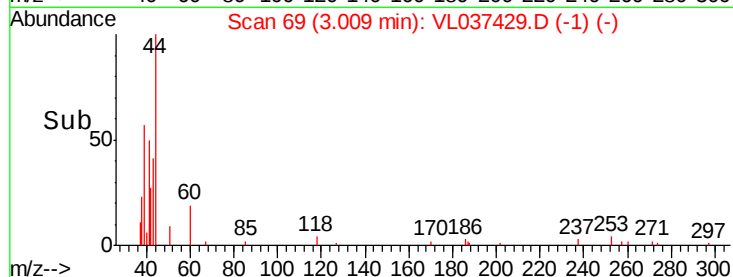
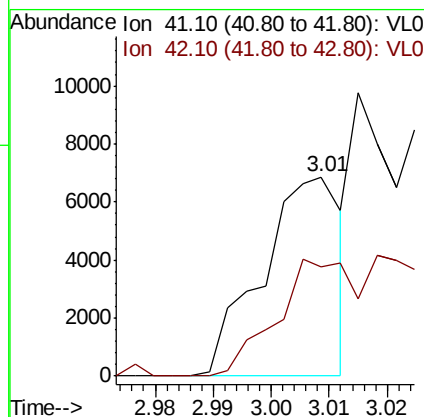
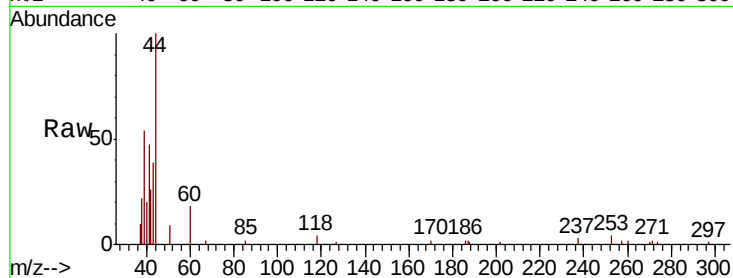
Time-->



#9
 Propene
 Concen: 0.078 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.00 min
 Lab File: VL037429.D
 Acq: 13 Aug 2021 1:19

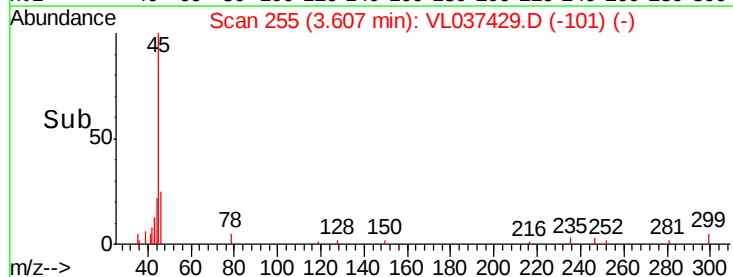
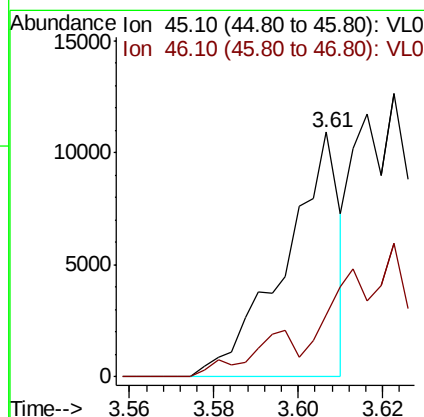
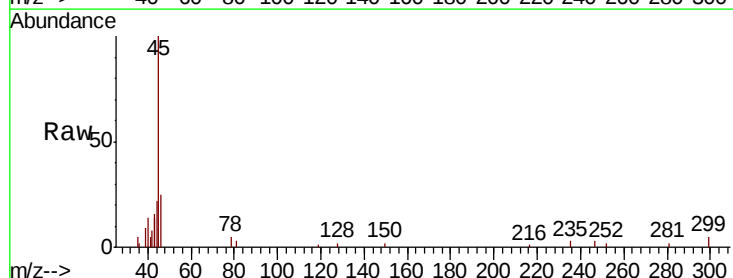
Instrument :
 MSVOA_L
 ClientSampleId :

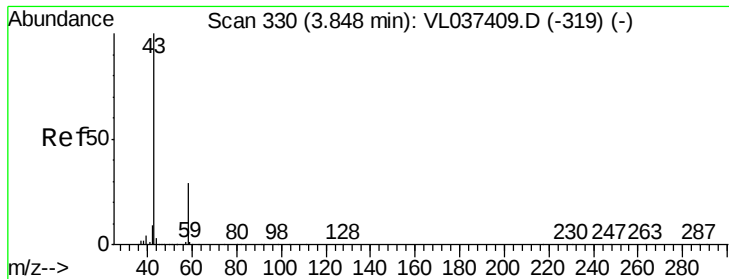
Tot Ion: 41 Resp: 6523
 Ion Ratio Lower Upper
 41 100
 42 0.0 53.8 80.8#



#13
 Ethanol
 Concen: 1.100 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.01 min
 Lab File: VL037429.D
 Acq: 13 Aug 2021 1:19

Tgt Ion: 45 Resp: 9837
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.0 72.2#





#15

Acetone

Concen: 2.811 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

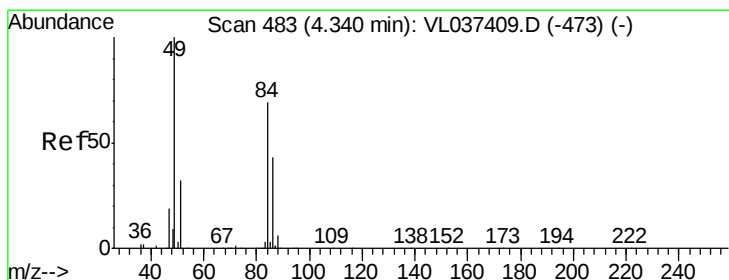
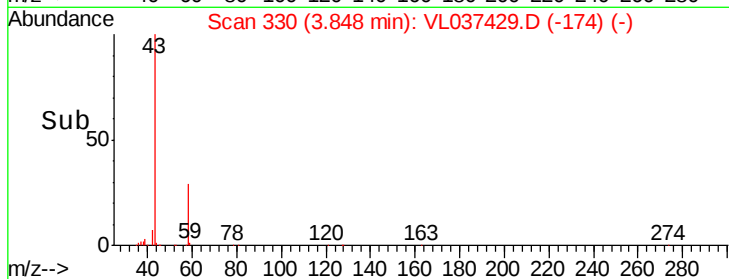
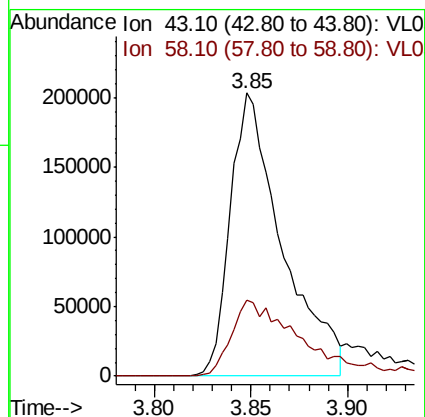
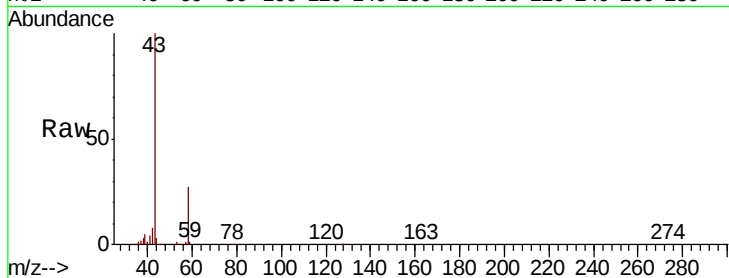
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 378761

Ion Ratio Lower Upper

43 100

58 38.4 24.4 36.6#



#20

Methylene Chloride

Concen: 6.687 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

Tgt Ion: 84 Resp: 476399

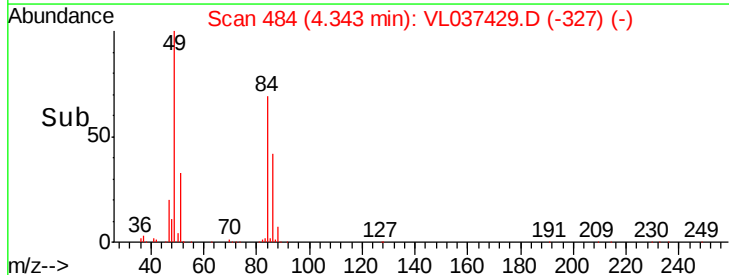
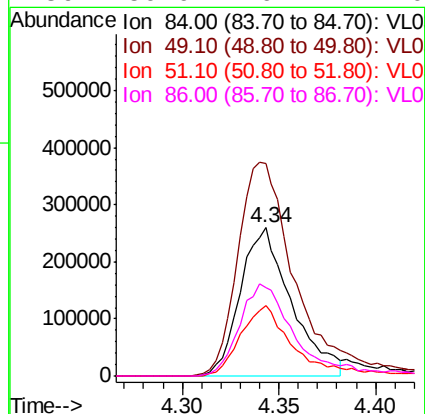
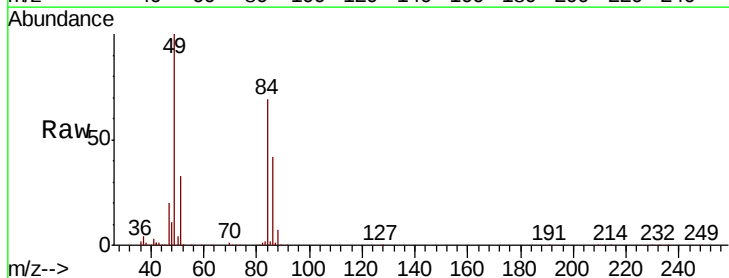
Ion Ratio Lower Upper

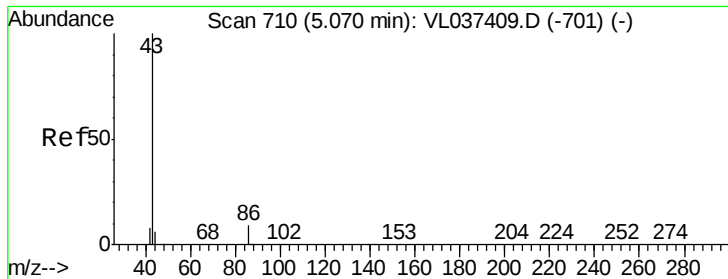
84 100

49 143.9 116.0 174.0

51 47.1 37.1 55.7

86 59.9 49.4 74.0





#23

Vinyl Acetate

Concen: 0.044 ppbv

RT: 5.06 min Scan# 707

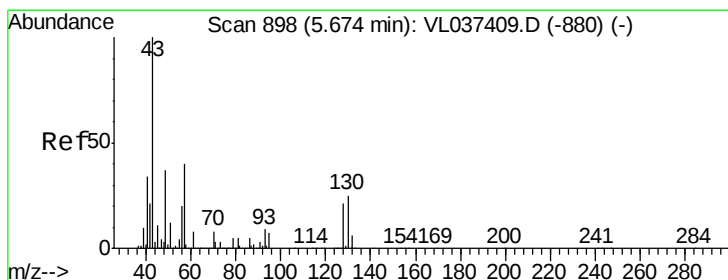
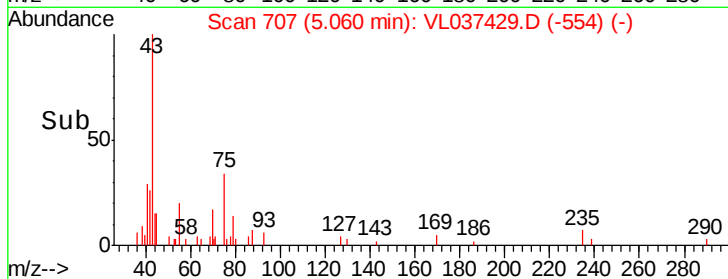
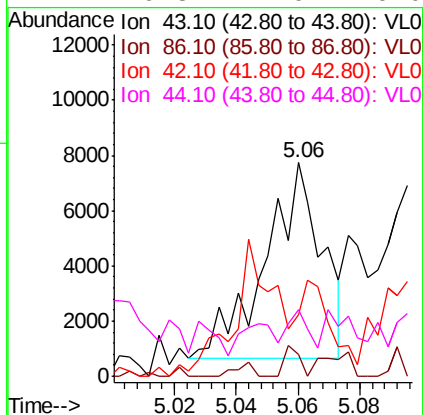
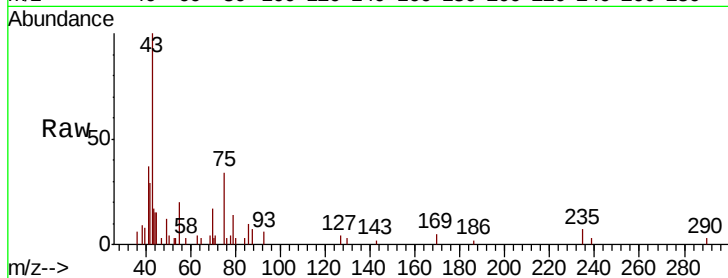
Delta R.T. -0.01 min

Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	9011
Ion	Ratio	Lower	Upper
43	100		
86	9.2	5.8	8.8#
42	24.7	7.7	11.5#
44	10.8	4.0	6.0#



#25

Ethyl Acetate

Concen: 0.829 ppbv

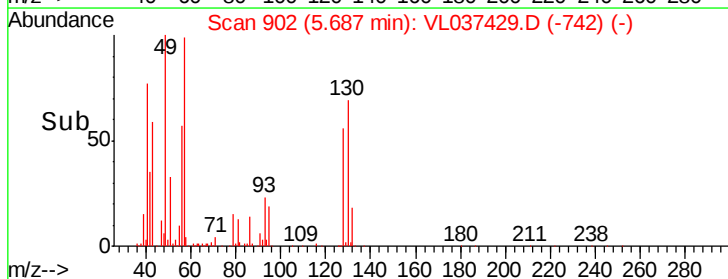
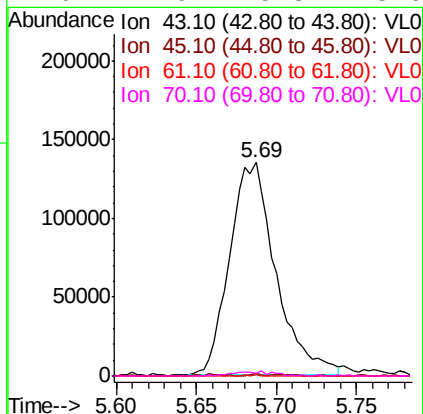
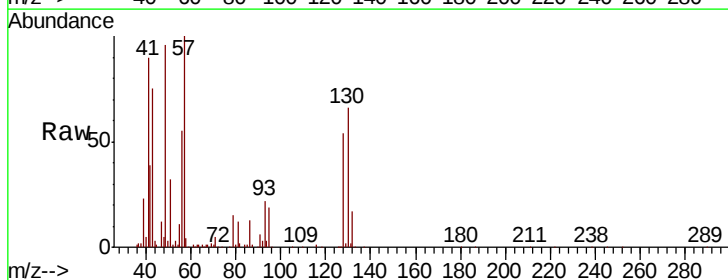
RT: 5.69 min Scan# 902

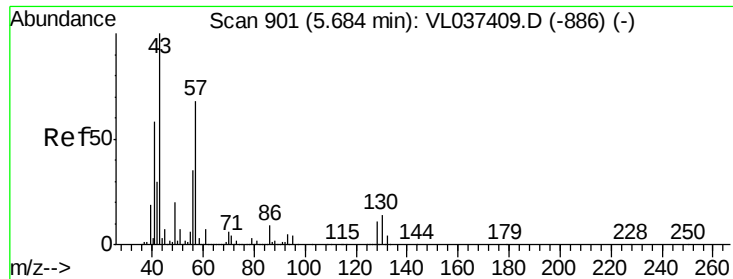
Delta R.T. 0.01 min

Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

Tgt Ion:	43	Resp:	266160
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.9	11.9#
61	0.2	7.7	11.5#
70	1.9	5.8	8.6#

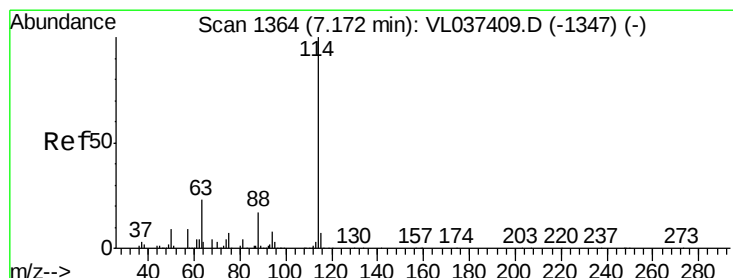
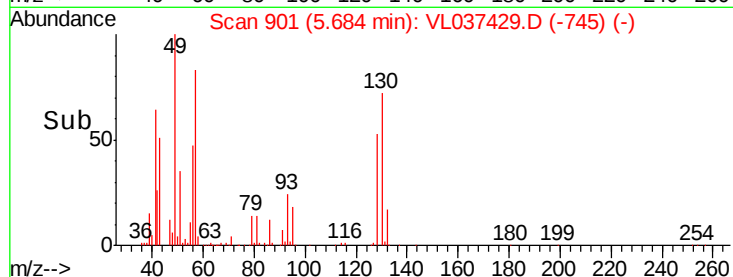
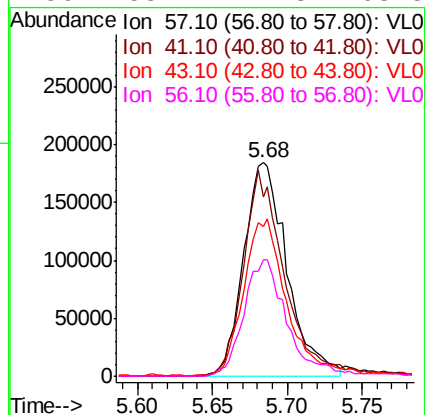
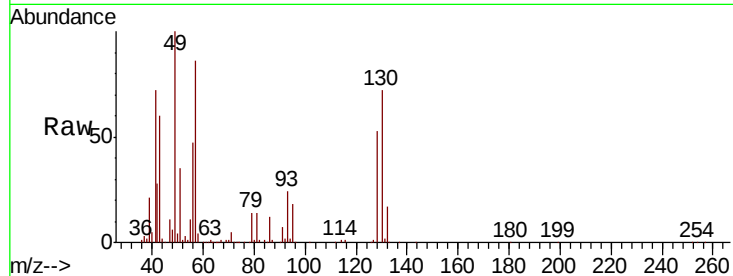




#26
Hexane
Concen: 2.243 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037429.D
Acq: 13 Aug 2021 1:19

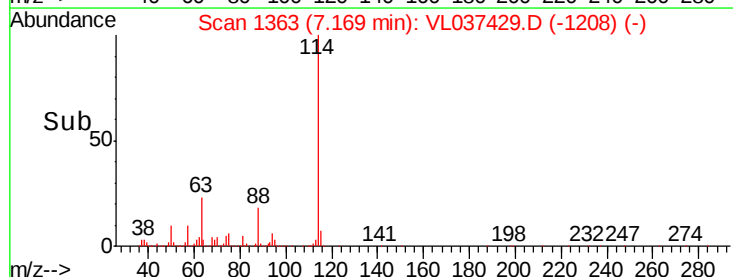
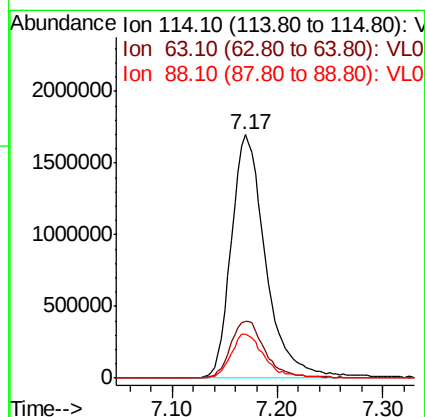
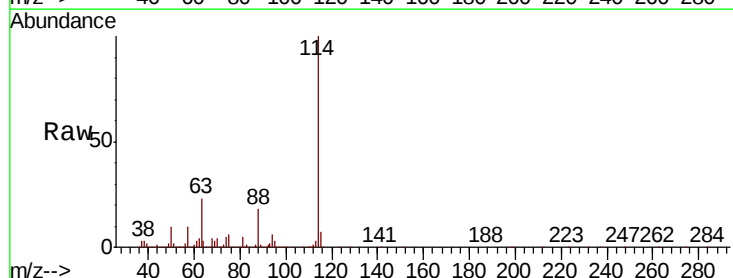
Instrument :
MSVOA_L
ClientSampleId :

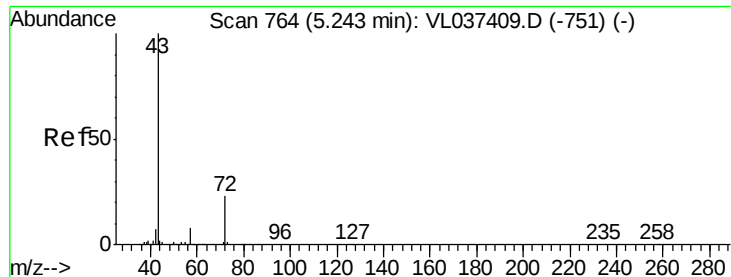
Tot Ion	Ratio	Lower	Upper
57	100		
41	93.0	72.5	108.7
43	73.9	169.3	253.9#
56	55.2	42.3	63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL037429.D
Acq: 13 Aug 2021 1:19

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.2
88	17.8	14.2	21.4

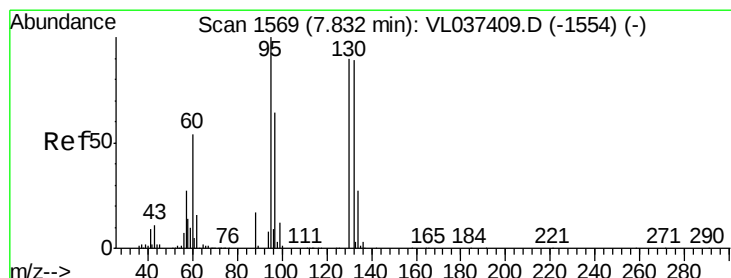
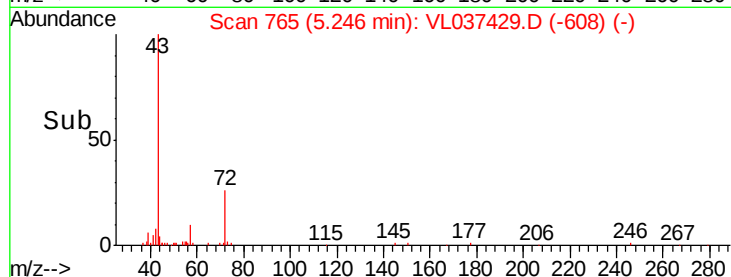
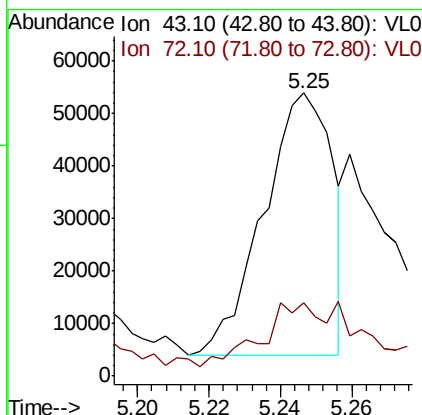
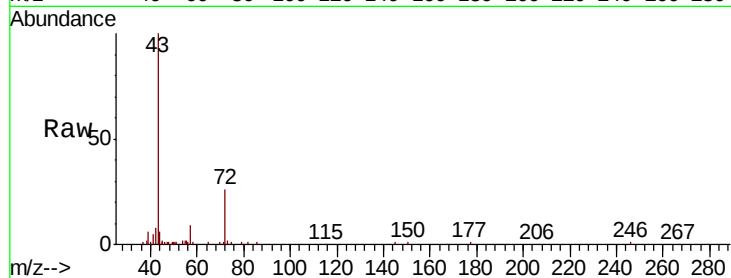




#34
2-Butanone
Concen: 0.424 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.00 min
Lab File: VL037429.D
Acq: 13 Aug 2021 1:19

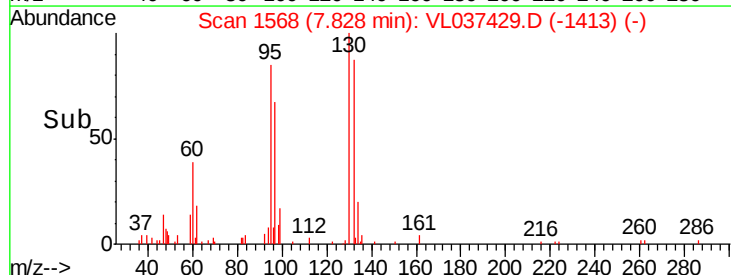
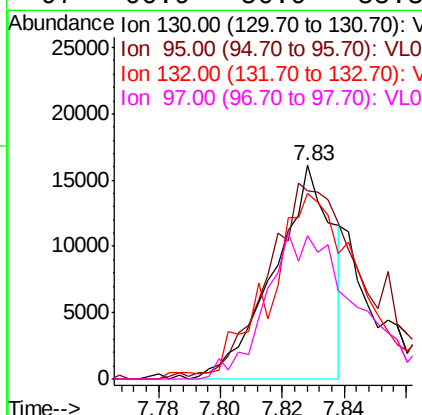
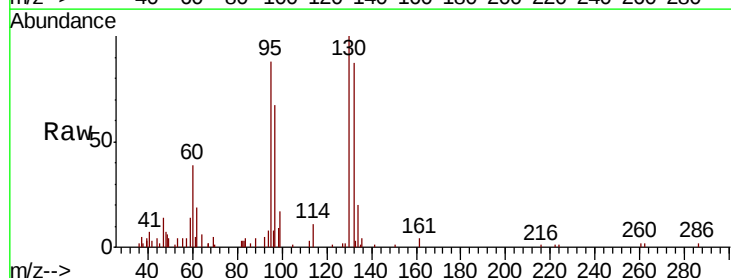
Instrument :
MSVOA_L
ClientSampleId :

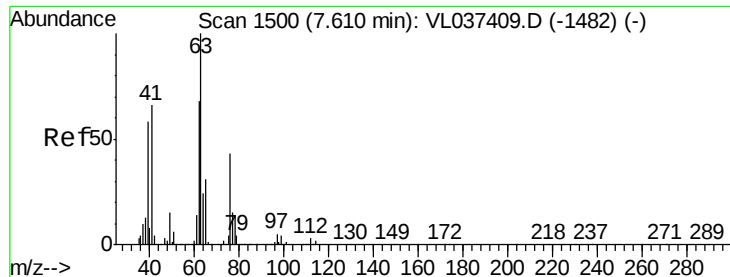
Tot Ion: 43 Resp: 67044
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#



#38
Trichloroethene
Concen: 0.147 ppbv
RT: 7.83 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL037429.D
Acq: 13 Aug 2021 1:19

Tgt Ion:130 Resp: 20961
Ion Ratio Lower Upper
130 100
95 86.7 88.6 132.8#
132 83.7 79.2 118.8
97 66.9 56.9 85.3

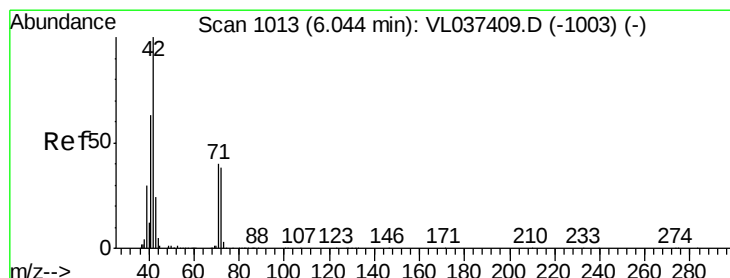
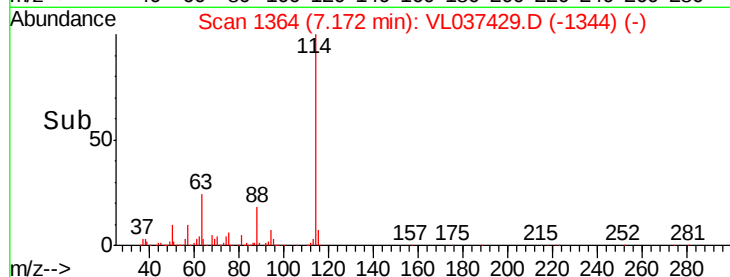
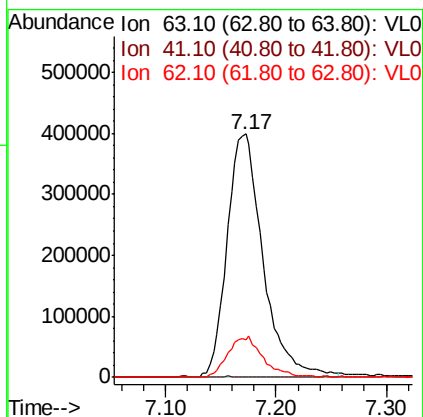
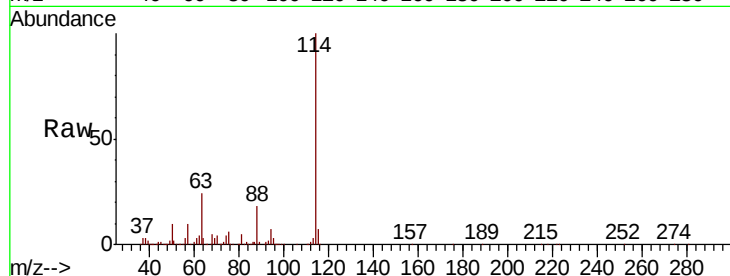




#39
 1,2-Dichloropropane
 Concen: 7.343 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.44 min
 Lab File: VL037429.D
 Acq: 13 Aug 2021 1:19

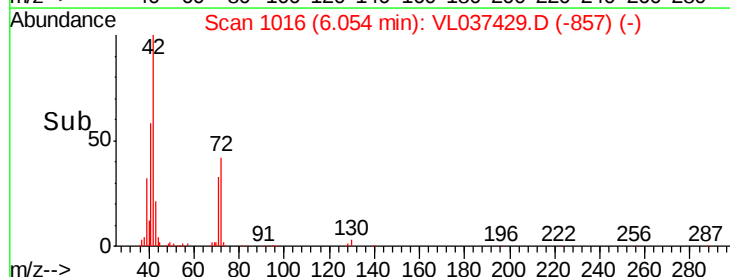
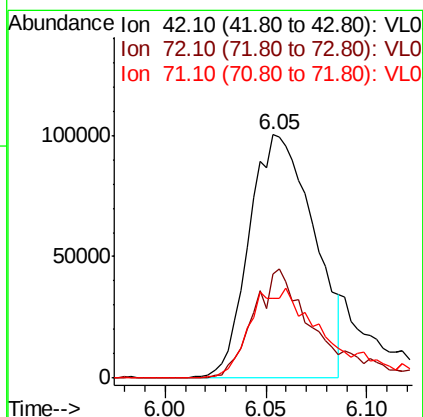
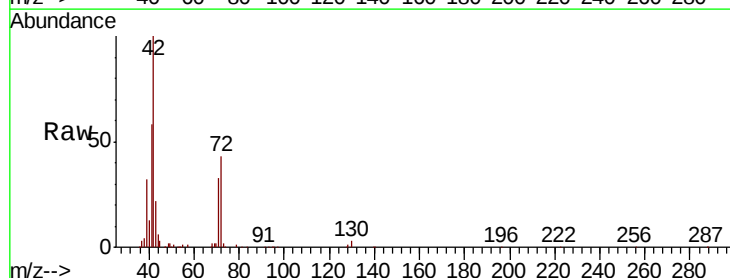
Instrument :
 MSVOA_L
 ClientSampled :

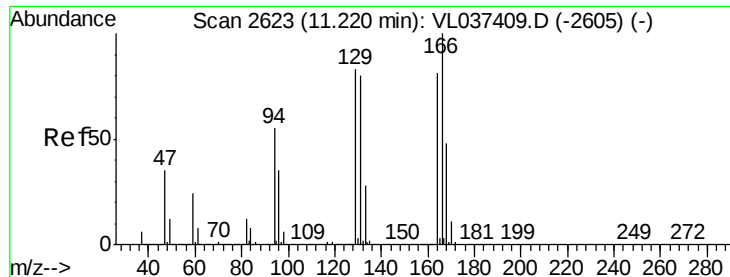
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	15.3	54.5	81.7#



#41
 Tetrahydrofuran
 Concen: 3.087 ppbv
 RT: 6.05 min Scan# 1016
 Delta R.T. 0.01 min
 Lab File: VL037429.D
 Acq: 13 Aug 2021 1:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	46.2	33.5	50.3
71	44.0	32.6	48.8





#52

Tetrachloroethene

Concen: 0.783 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL037429.D

Acq: 13 Aug 2021 1:19

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 106442

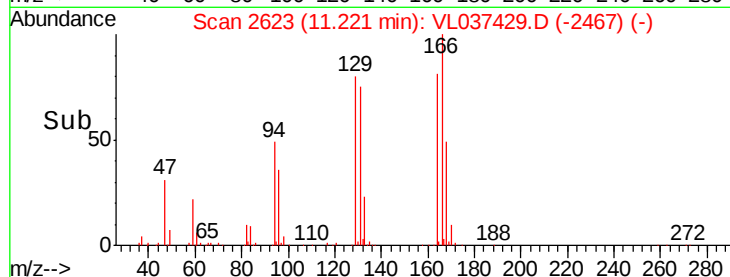
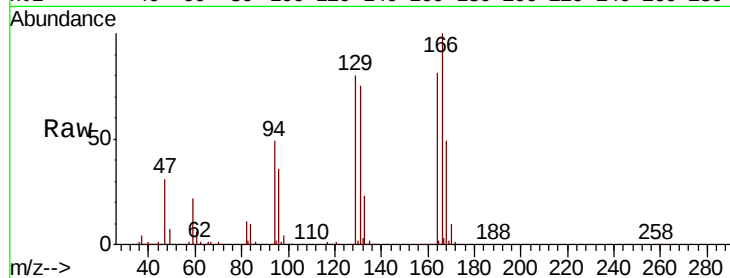
Ion Ratio Lower Upper

164 100

166 122.4 98.6 147.8

129 99.1 82.0 123.0

131 88.9 78.6 117.8

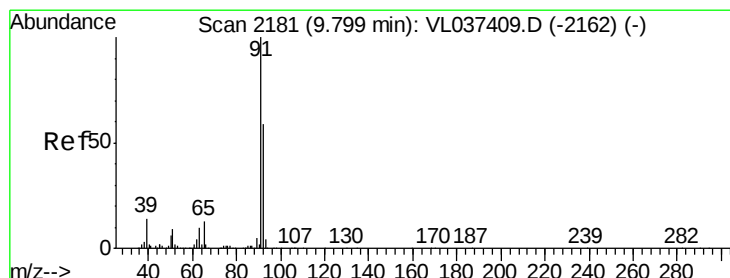
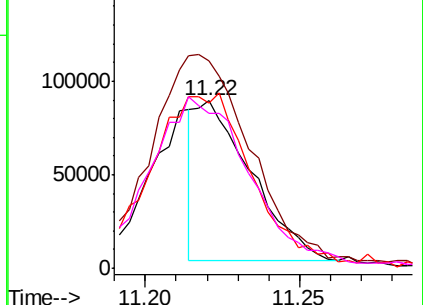


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.558 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL037429.D

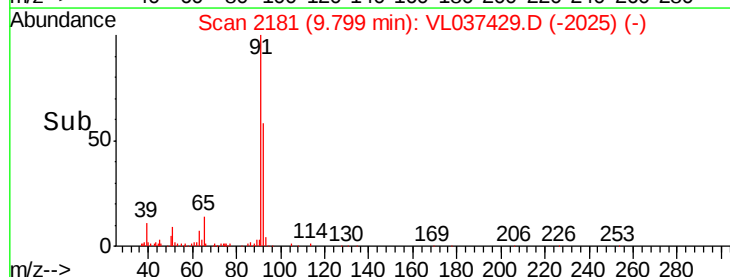
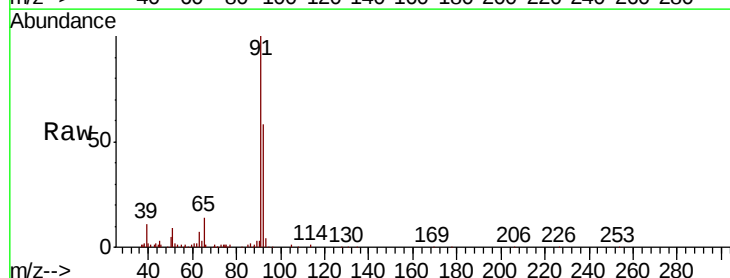
Acq: 13 Aug 2021 1:19

Tgt Ion: 91 Resp: 205745

Ion Ratio Lower Upper

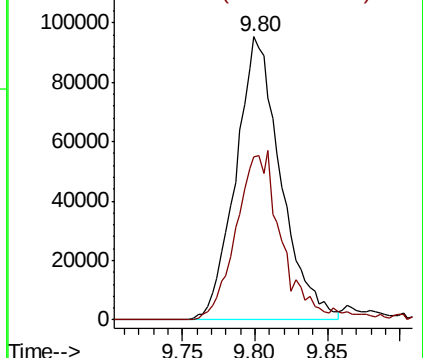
91 100

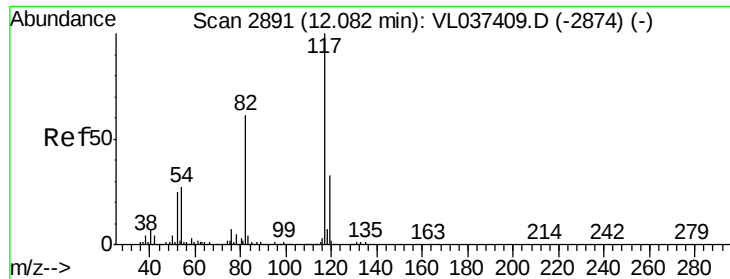
92 61.0 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

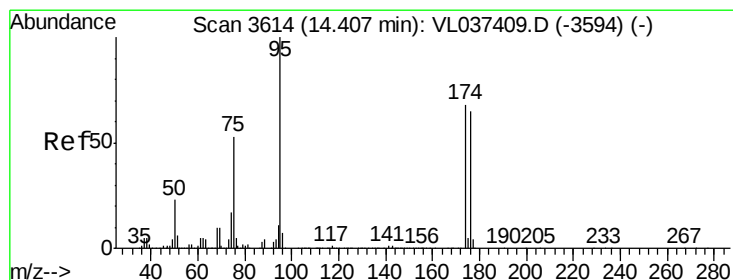
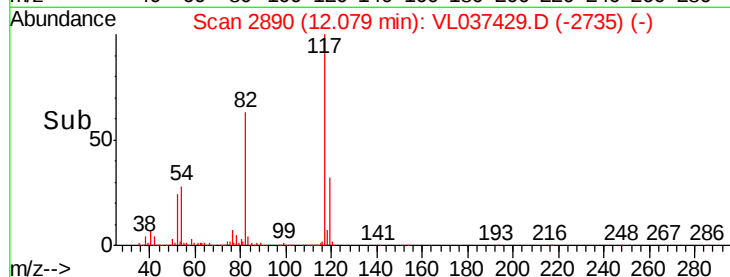
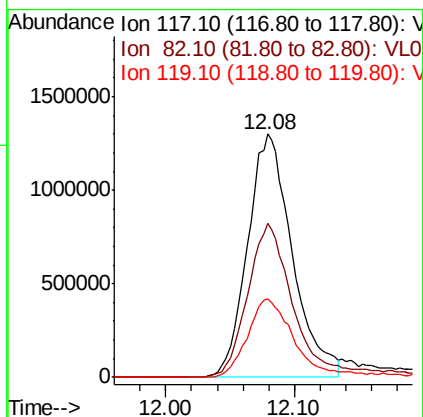
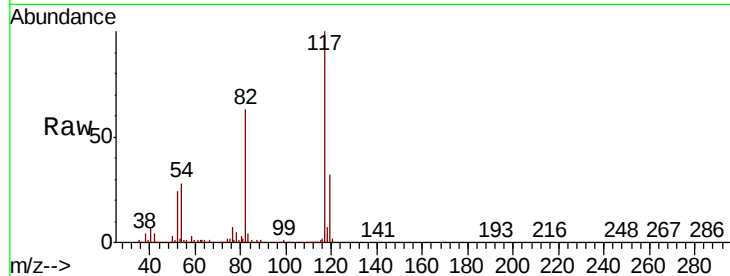




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL037429.D
Acq: 13 Aug 2021 1:19

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3139006
Ion Ratio Lower Upper
117 100
82 70.3 53.1 79.7
119 34.3 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.00 min
Lab File: VL037429.D
Acq: 13 Aug 2021 1:19

Tgt Ion: 95 Resp: 2230536
Ion Ratio Lower Upper
95 100
174 79.5 59.6 89.4
175 5.9 4.3 6.5

