

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037422.D
 Acq On : 12 Aug 2021 20:45
 Operator : SY/AP
 Sample : M3239-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 03:06:29 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	5.67	49	1264179	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3860849	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3172348	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2243920	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

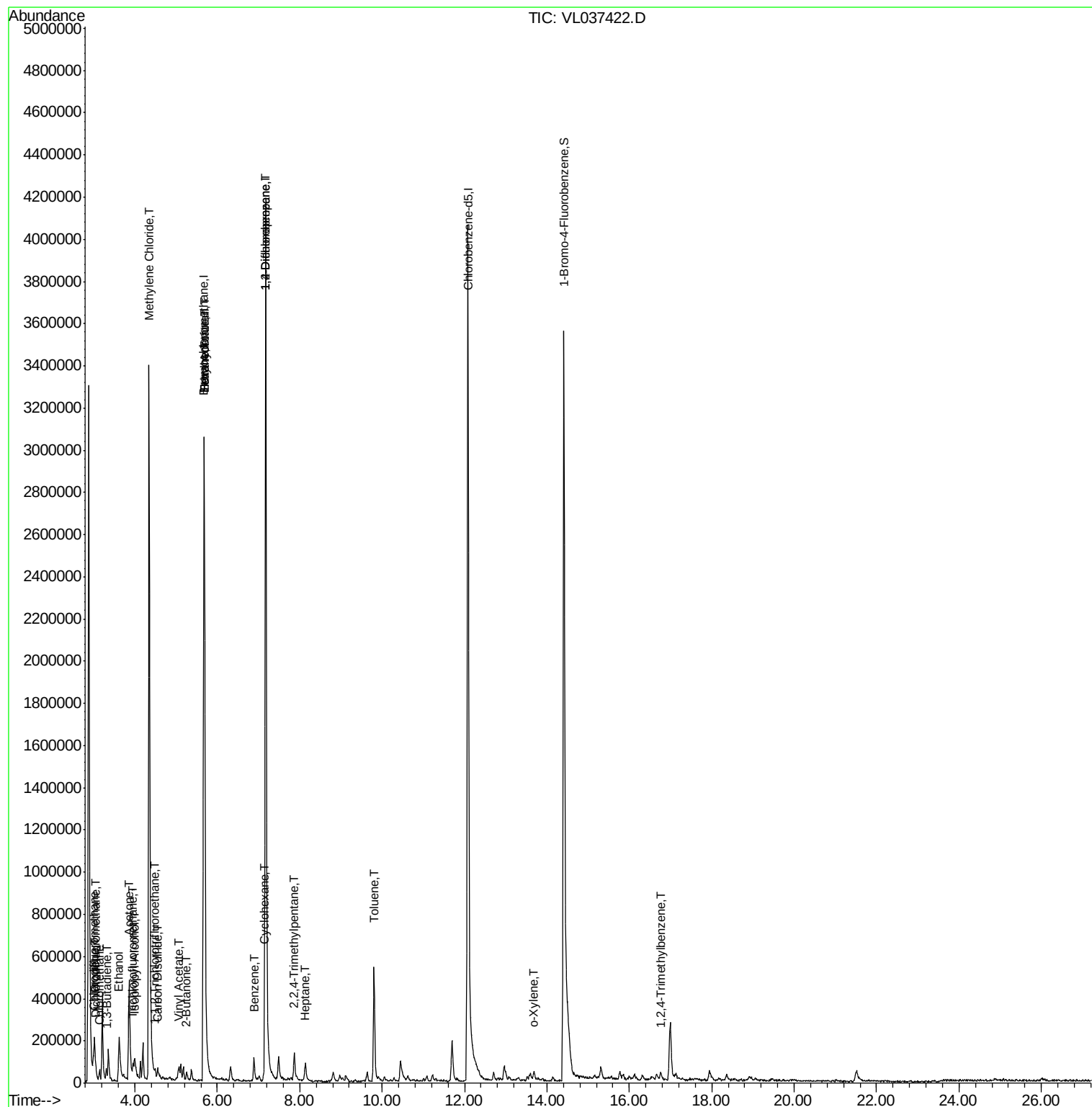
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	14375	0.074	ppbv 100
3) Chlorodifluoromethane	2.99	51	139240	0.561	ppbv # 90
4) Chloromethane	3.14	50	27671	0.310	ppbv # 86
9) Propene	3.02	41	60797	0.729	ppbv 94
10) Heptane	8.12	43	12070	0.060	ppbv # 49
11) Trichlorofluoromethane	3.95	101	29286	0.140	ppbv 88
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5767	0.039	ppbv # 41
13) Ethanol	3.62	45	238645	26.825	ppbv 78
15) Acetone	3.85	43	627520	4.681	ppbv 96
16) 1,3-Butadiene	3.33	39	5099	0.057	ppbv # 13
19) Isopropyl Alcohol	3.99	45	124304	1.593	ppbv # 1
20) Methylene Chloride	4.34	84	1494335	21.079	ppbv 99
23) Vinyl Acetate	5.07	43	13067	0.064	ppbv # 62
25) Ethyl Acetate	5.69	43	668081	2.091	ppbv # 78
26) Hexane	5.69	57	986169	5.981	ppbv # 45
27) Carbon Disulfide	4.55	76	48467	0.349	ppbv # 85
30) Cyclohexane	7.14	84	6190	0.046	ppbv # 1
34) 2-Butanone	5.25	43	17798	0.112	ppbv # 54
36) Benzene	6.89	78	50268	0.154	ppbv 97
39) 1,2-Dichloropropane	7.17	63	889870	7.175	ppbv # 26
41) Tetrahydrofuran	5.69	42	341257	4.662	ppbv # 48
44) 2,2,4-Trimethylpentane	7.87	57	116829	0.215	ppbv # 88
53) Toluene	9.80	91	240287	0.646	ppbv # 29
60) o-Xylene	13.68	91	10807	0.031	ppbv # 1
74) 1,2,4-Trimethylbenzene	16.75	105	12239	0.031	ppbv # 76

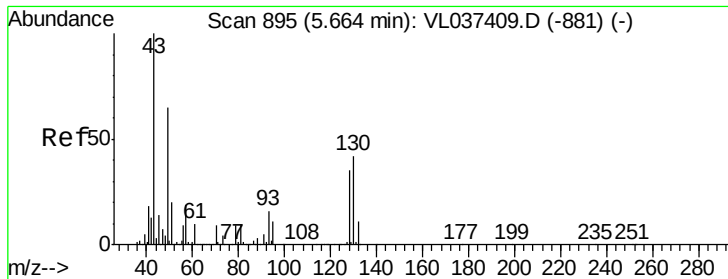
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL037422.D

Acq: 12 Aug 2021 20:45

Instrument :

MSVOA_L

ClientSampleId :

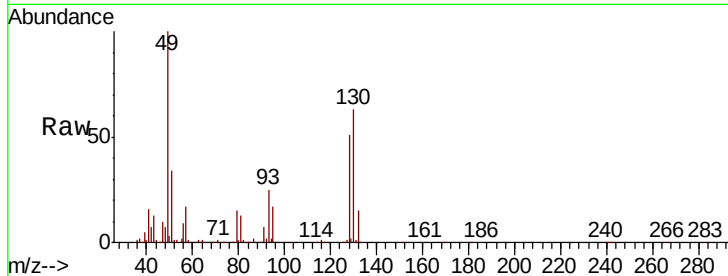
Tot Ion: 49 Resp: 1264179

Ion Ratio Lower Upper

49 100

128 54.1 27.9 83.6

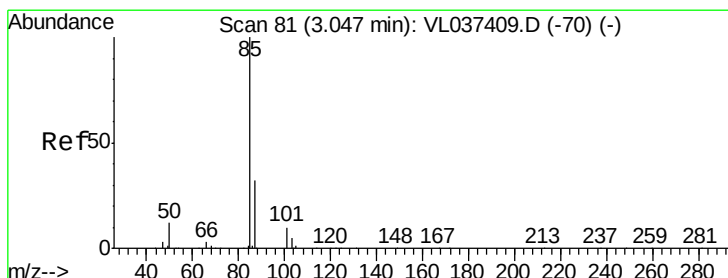
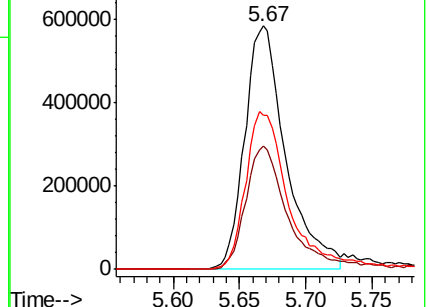
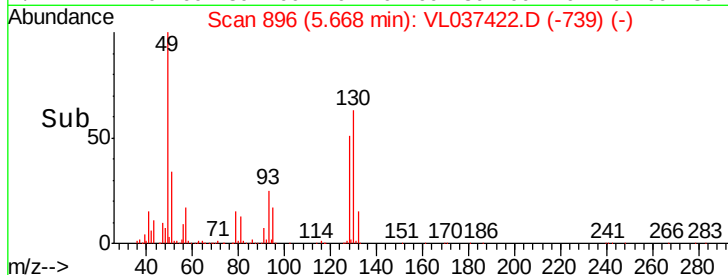
130 71.4 34.6 103.8



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: 0.074 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL037422.D

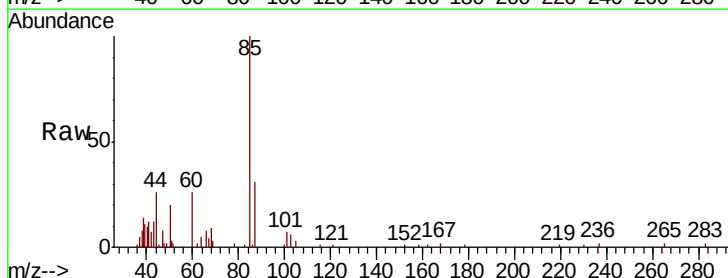
Acq: 12 Aug 2021 20:45

Tgt Ion: 85 Resp: 14375

Ion Ratio Lower Upper

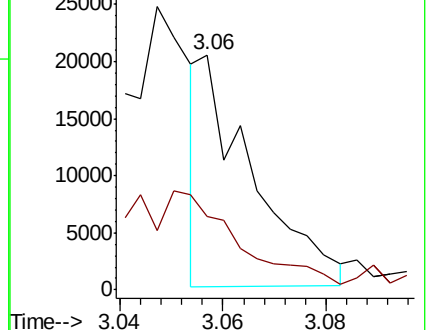
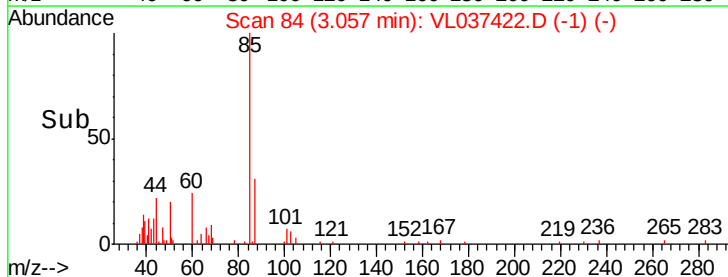
85 100

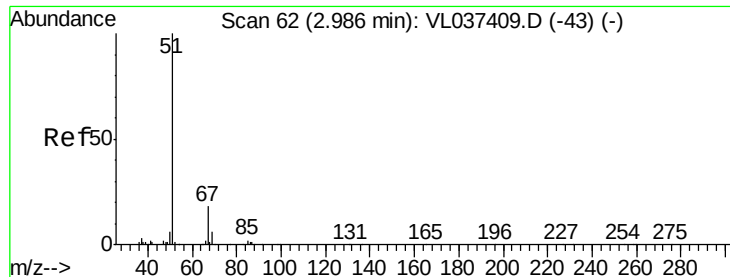
87 32.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.561 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL037422.D

Acq: 12 Aug 2021 20:45

Instrument :

MSVOA_L

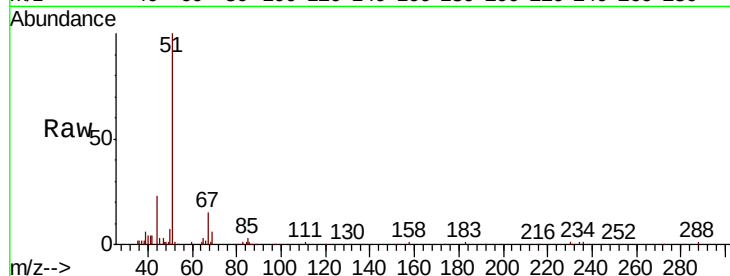
ClientSampleId :

Tot Ion: 51 Resp: 139240

Ion Ratio Lower Upper

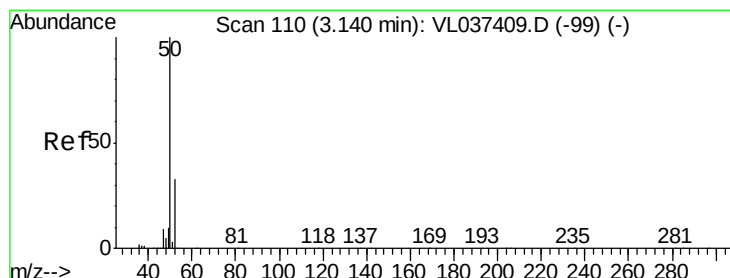
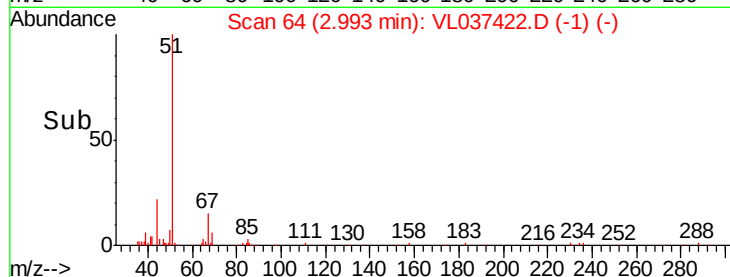
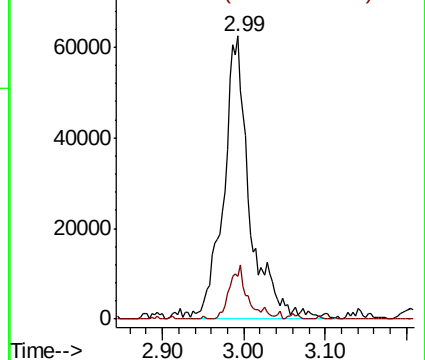
51 100

67 13.9 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: 0.310 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037422.D

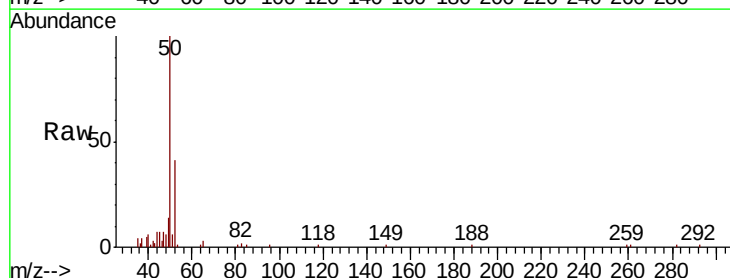
Acq: 12 Aug 2021 20:45

Tgt Ion: 50 Resp: 27671

Ion Ratio Lower Upper

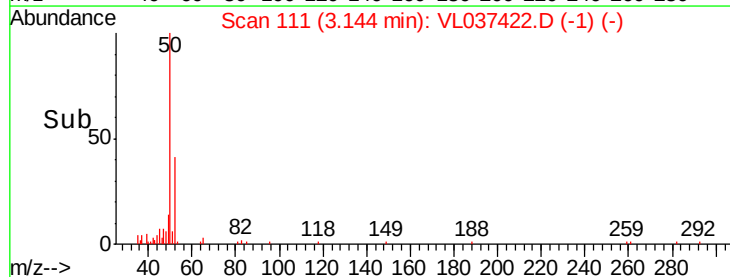
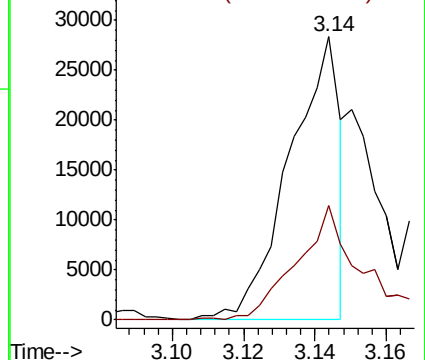
50 100

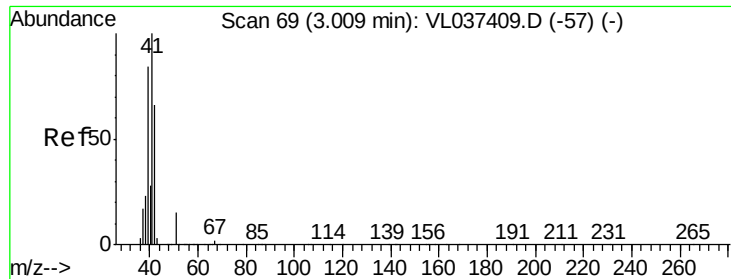
52 40.5 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.729 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037422.D

Acq: 12 Aug 2021 20:45

Instrument :

MSVOA_L

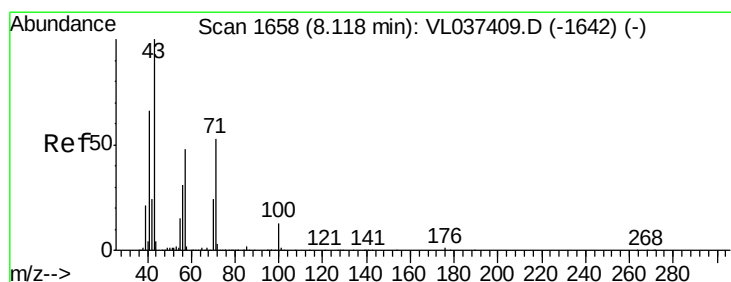
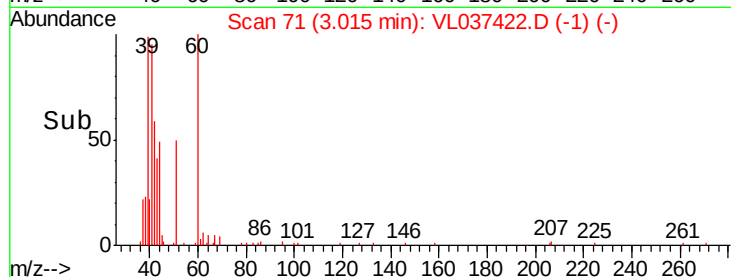
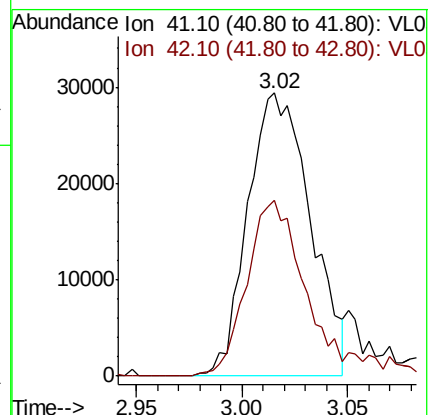
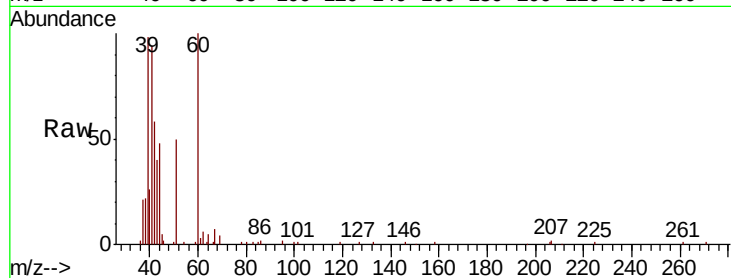
ClientSampleId :

Tot Ion: 41 Resp: 60797

Ion Ratio Lower Upper

41 100

42 62.7 53.8 80.8



#10

Heptane

Concen: 0.060 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VL037422.D

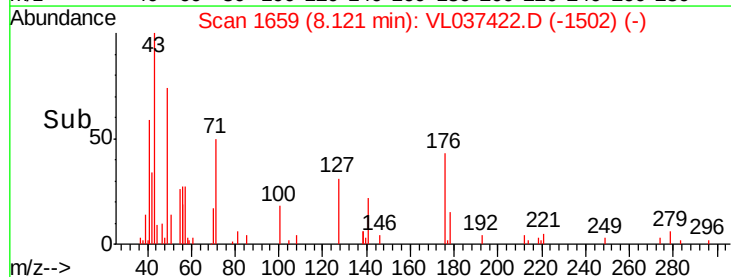
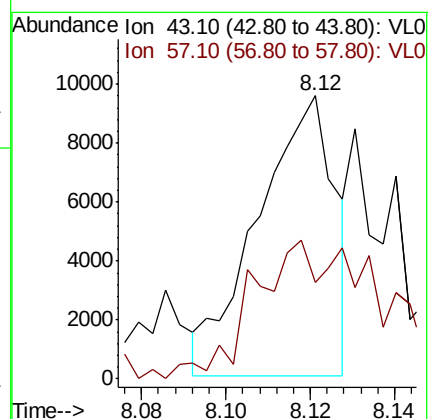
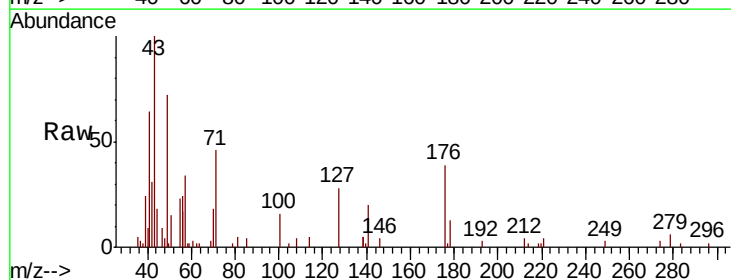
Acq: 12 Aug 2021 20:45

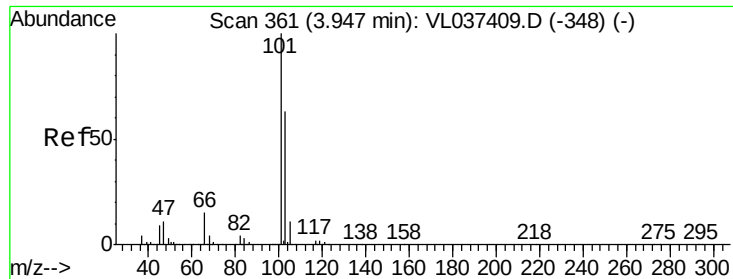
Tgt Ion: 43 Resp: 12070

Ion Ratio Lower Upper

43 100

57 85.7 40.3 60.5#

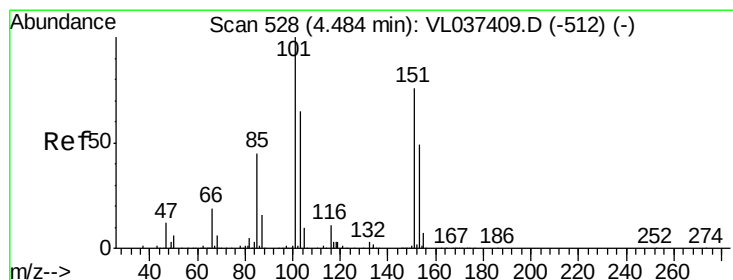
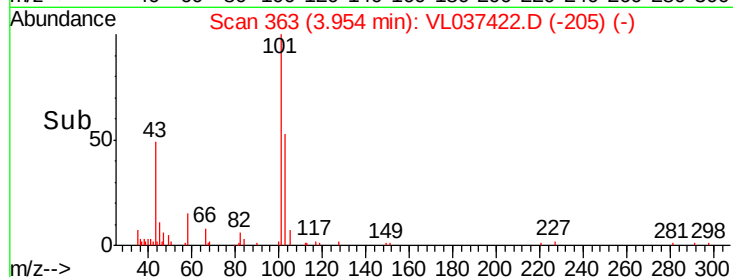
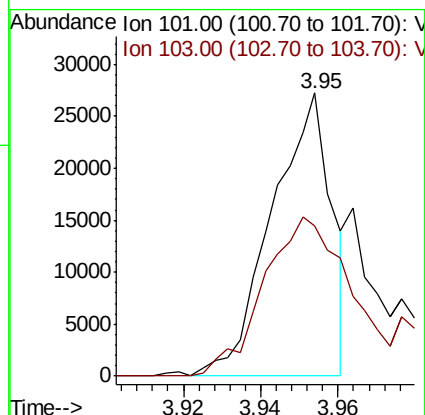
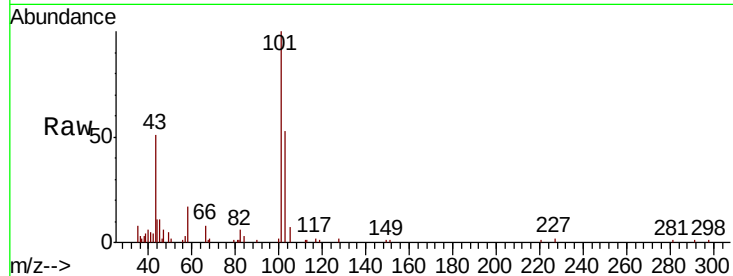




#11
 Trichlorofluoromethane
 Concen: 0.140 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

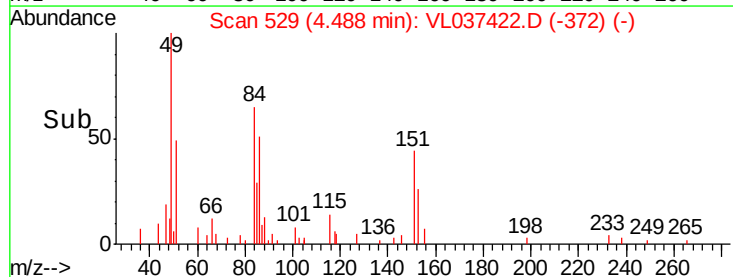
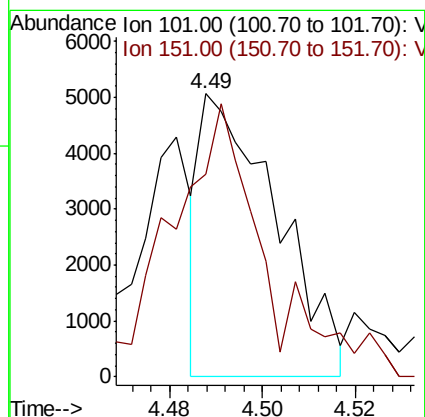
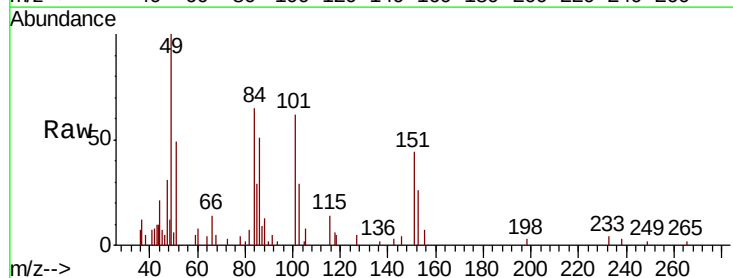
Instrument :
 MSVOA_L
 ClientSampleId :

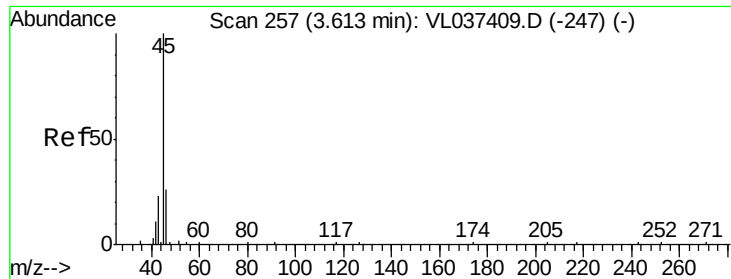
Tot Ion:101 Resp: 29286
 Ion Ratio Lower Upper
 101 100
 103 53.1 50.2 75.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

Tgt Ion:101 Resp: 5767
 Ion Ratio Lower Upper
 101 100
 151 127.4 61.2 91.8#

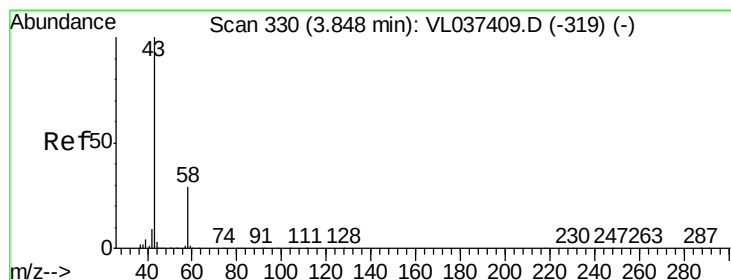
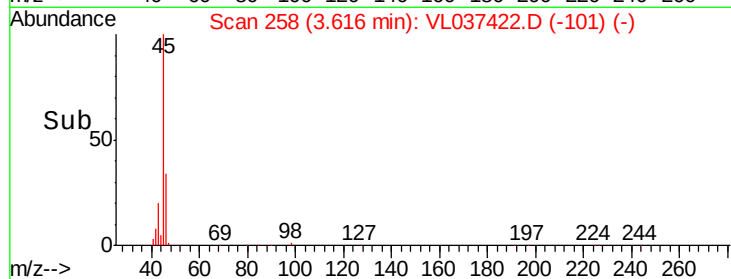
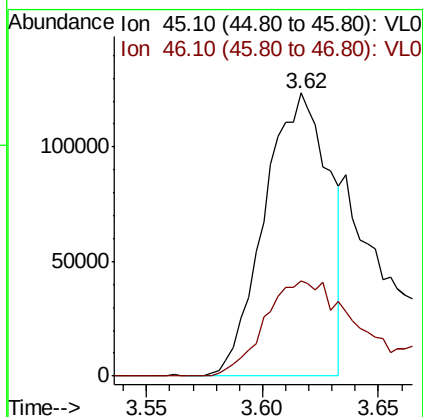
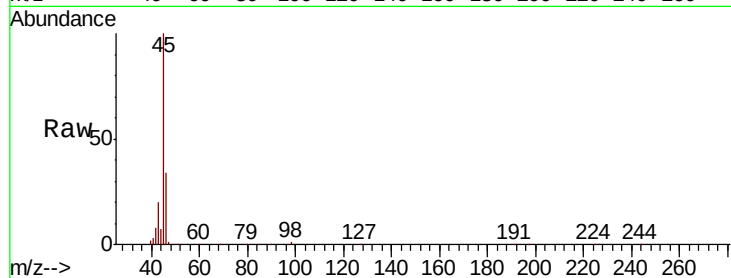




#13
Ethanol
Concen: 26.825 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.00 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

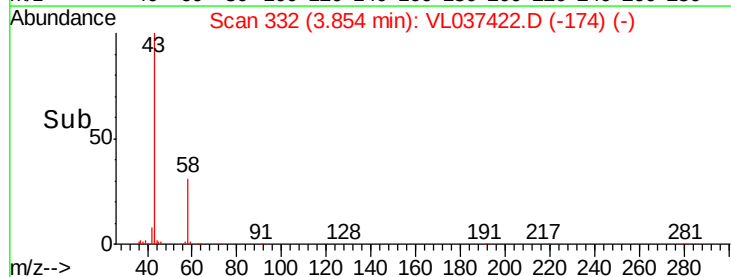
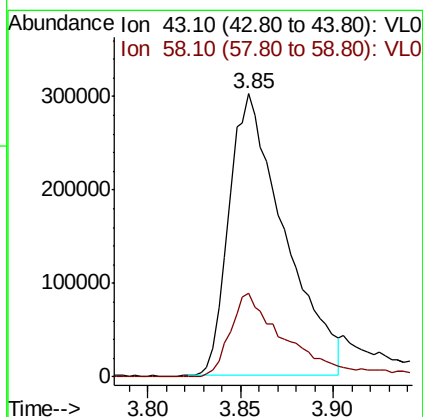
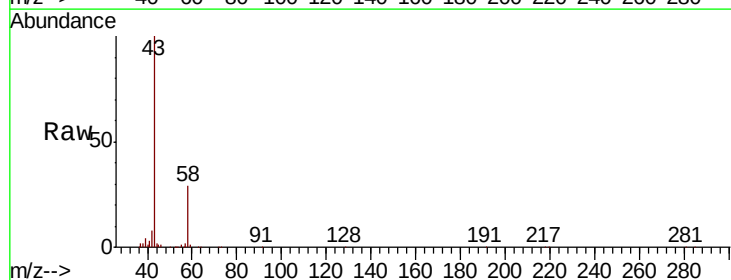
Instrument :
MSVOA_L
ClientSampleId :

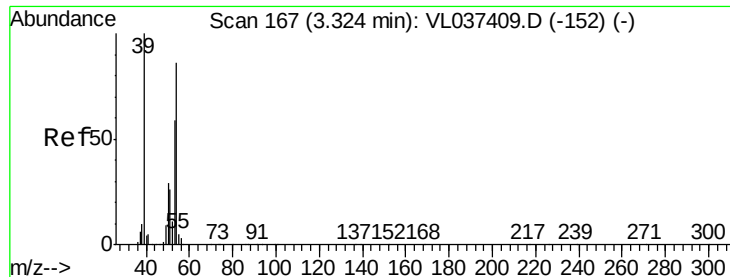
Tot Ion: 45 Resp: 238645
Ion Ratio Lower Upper
45 100
46 59.6 18.0 72.2



#15
Acetone
Concen: 4.681 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Tgt Ion: 43 Resp: 627520
Ion Ratio Lower Upper
43 100
58 32.8 24.4 36.6

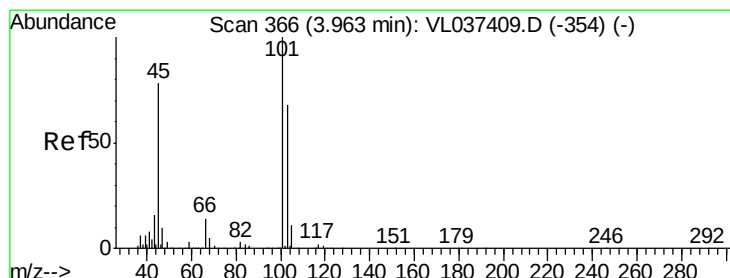
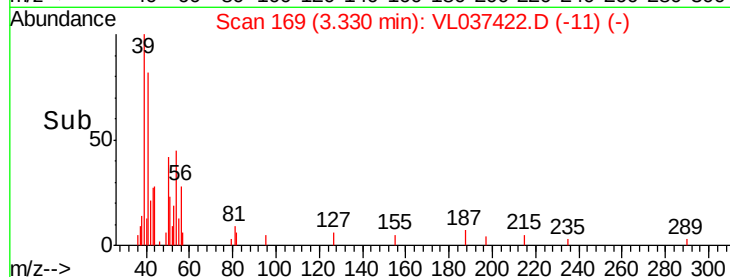
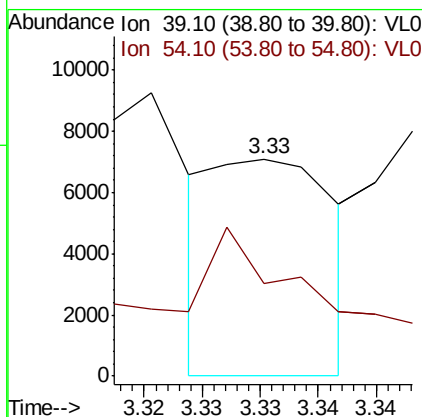
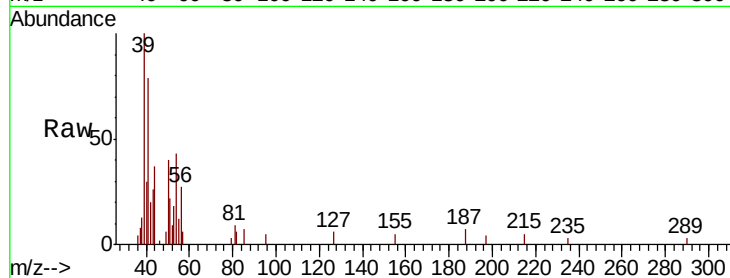




#16
 1,3-Butadiene
 Concen: 0.057 ppbv
 RT: 3.33 min Scan# 169
 Delta R.T. 0.01 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

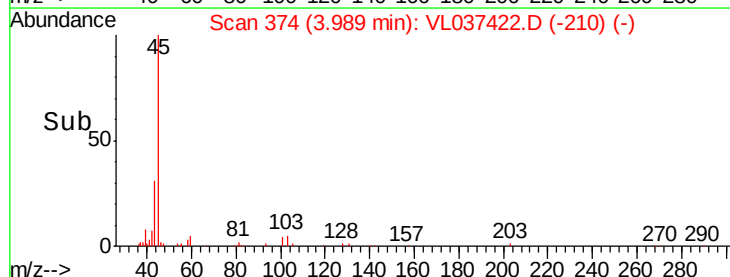
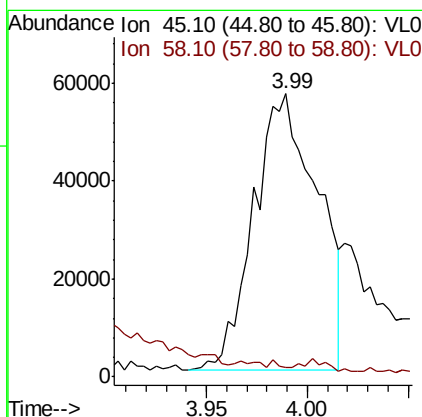
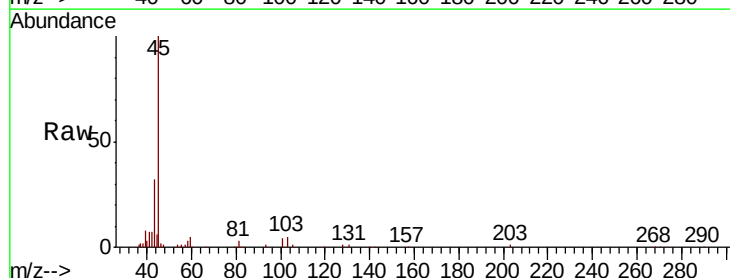
Instrument :
 MSVOA_L
 ClientSampled :

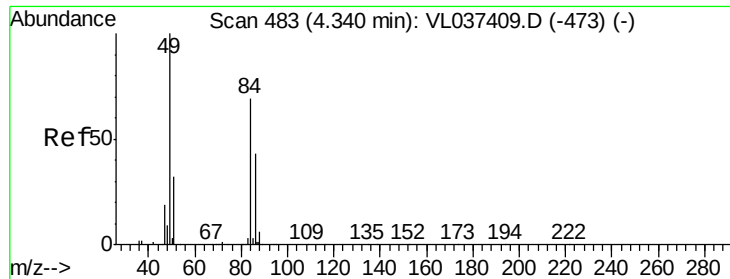
Tot Ion: 39 Resp: 5099
 Ion Ratio Lower Upper
 39 100
 54 152.0 61.4 92.0#



#19
 Isopropyl Alcohol
 Concen: 1.593 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.03 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

Tgt Ion: 45 Resp: 124304
 Ion Ratio Lower Upper
 45 100
 58 165.7 2.2 3.4#



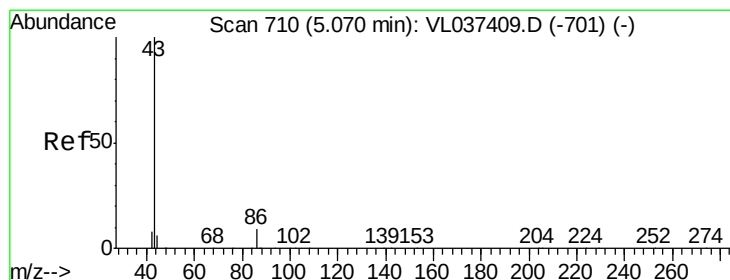
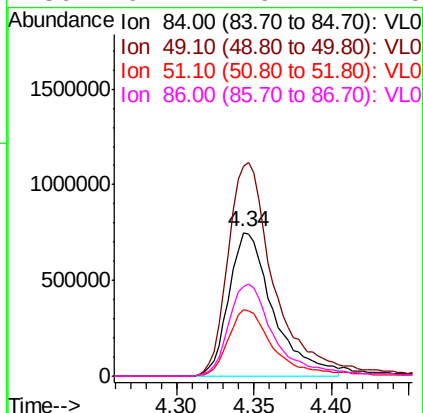
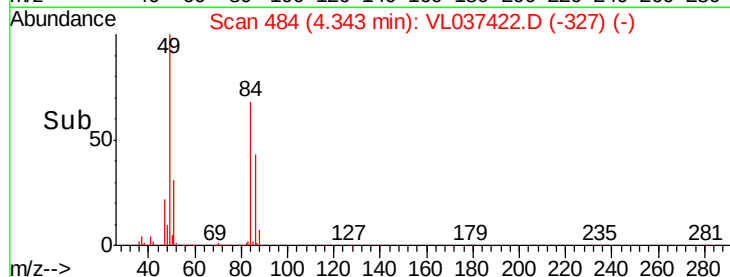
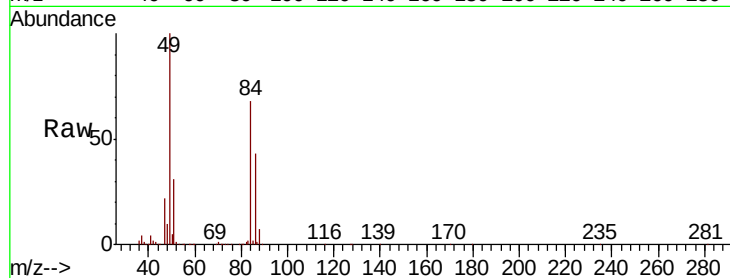


#20
Methylene Chloride
Concen: 21.079 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 1494335

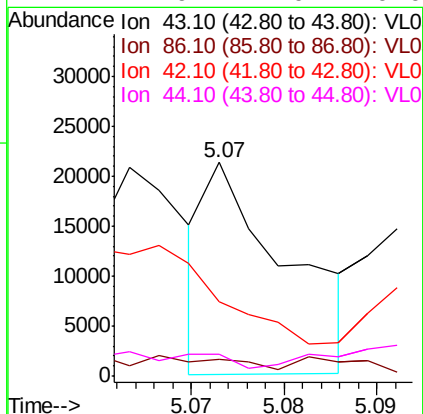
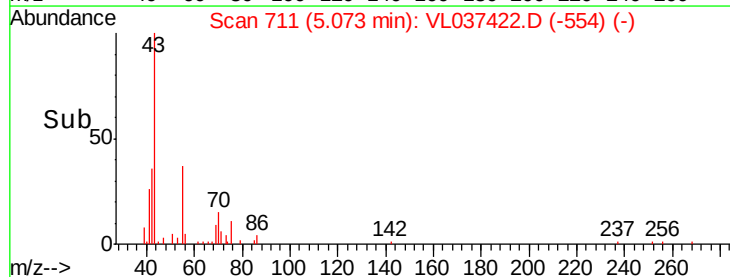
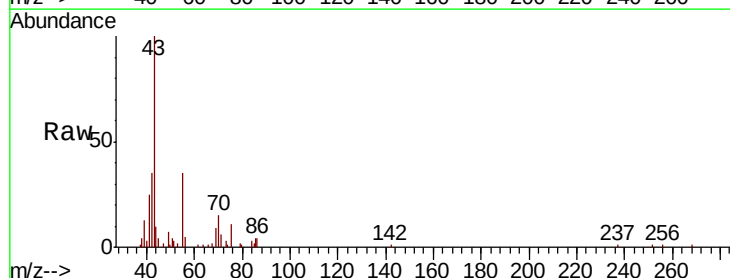
Ion	Ratio	Lower	Upper
84	100		
49	146.0	116.0	174.0
51	45.9	37.1	55.7
86	62.4	49.4	74.0

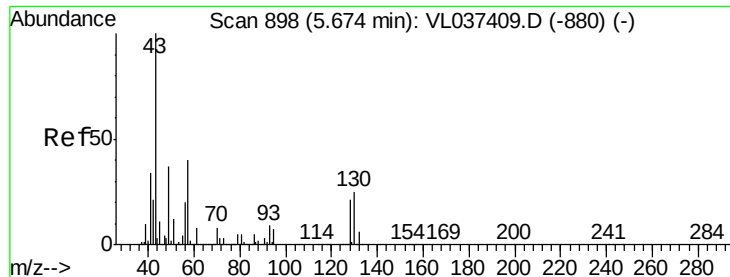


#23
Vinyl Acetate
Concen: 0.064 ppbv
RT: 5.07 min Scan# 711
Delta R.T. 0.00 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Tgt Ion: 43 Resp: 13067

Ion	Ratio	Lower	Upper
43	100		
86	3.1	5.8	8.8#
42	37.1	7.7	11.5#
44	2.9	4.0	6.0#

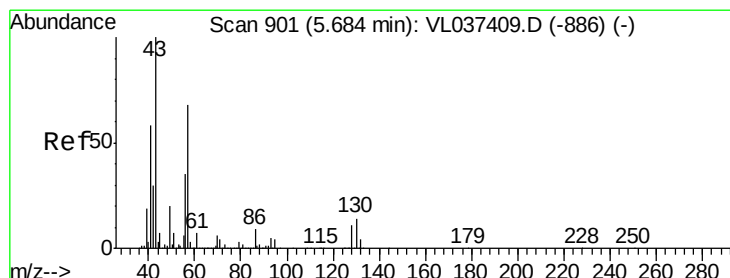
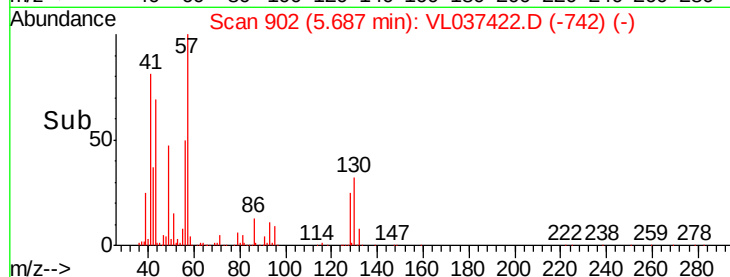
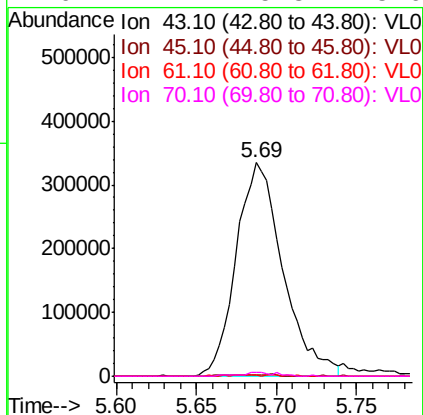
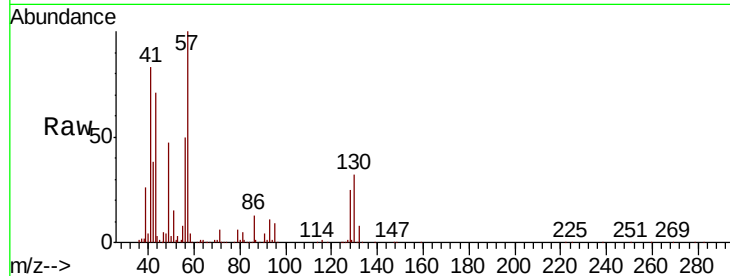




#25
Ethyl Acetate
Concen: 2.091 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

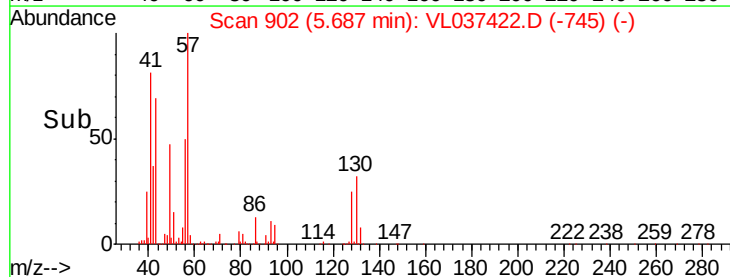
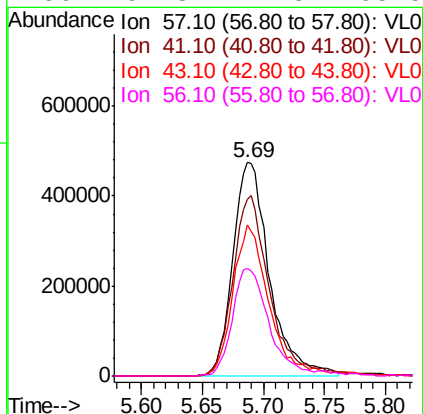
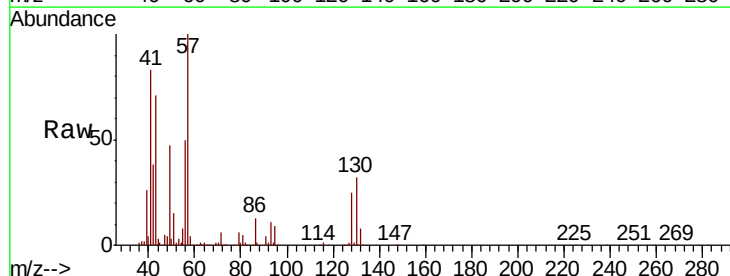
Instrument :
MSVOA_L
ClientSampled :

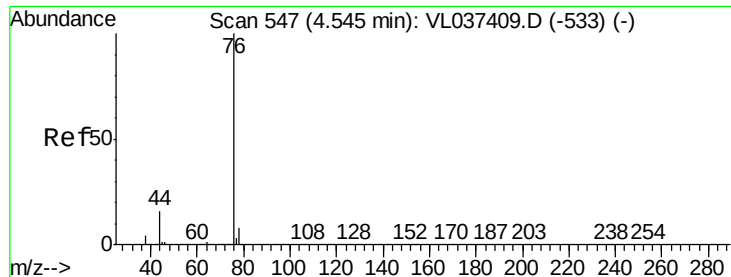
Tot Ion:	43	Resp:	668081
Ion	Ratio	Lower	Upper
43	100		
45	1.3	7.9	11.9#
61	0.8	7.7	11.5#
70	1.7	5.8	8.6#



#26
Hexane
Concen: 5.981 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Tgt Ion:	57	Resp:	986169
Ion	Ratio	Lower	Upper
57	100		
41	86.4	72.5	108.7
43	70.3	169.3	253.9#
56	51.8	42.3	63.5





#27

Carbon Disulfide

Concen: 0.349 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL037422.D

Acq: 12 Aug 2021 20:45

Instrument :

MSVOA_L

ClientSampleId :

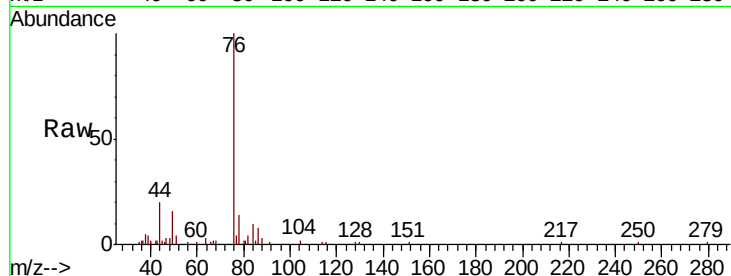
Tot Ion: 76 Resp: 48467

Ion Ratio Lower Upper

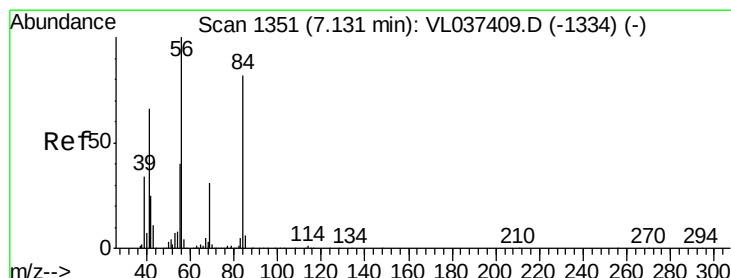
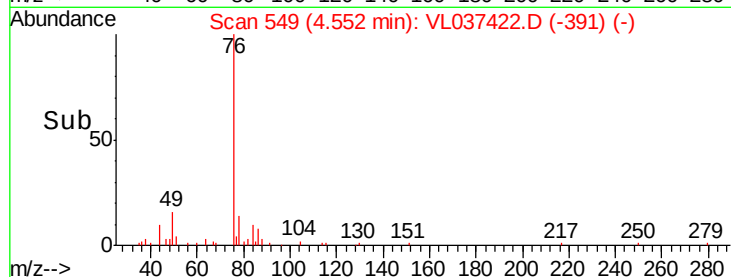
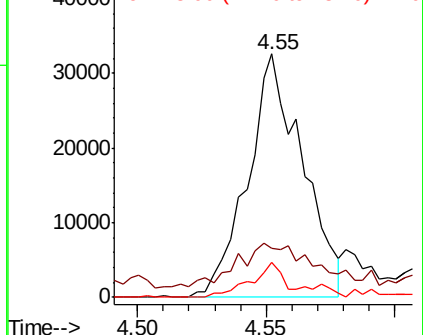
76 100

44 26.4 14.4 21.6#

78 12.7 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.046 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. 0.01 min

Lab File: VL037422.D

Acq: 12 Aug 2021 20:45

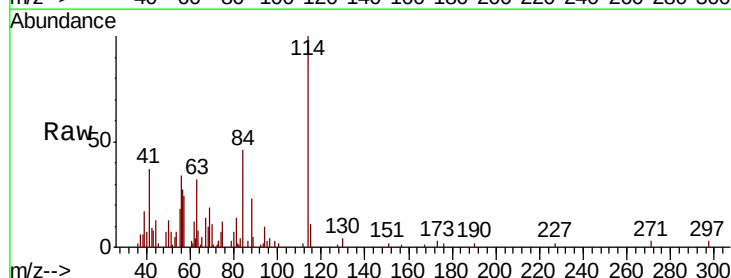
Tgt Ion: 84 Resp: 6190

Ion Ratio Lower Upper

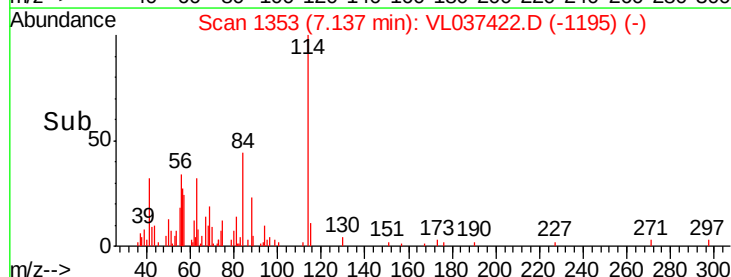
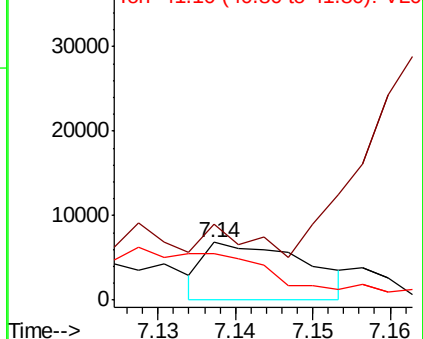
84 100

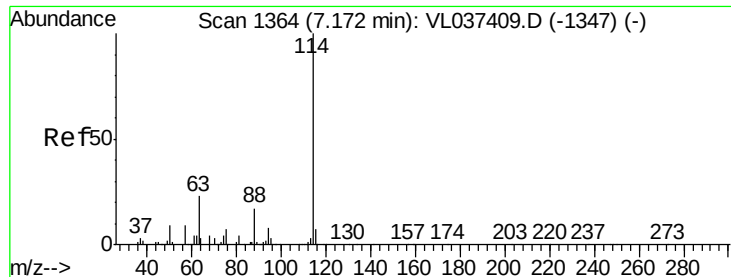
56 0.0 109.6 164.4#

41 0.0 66.6 99.8#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

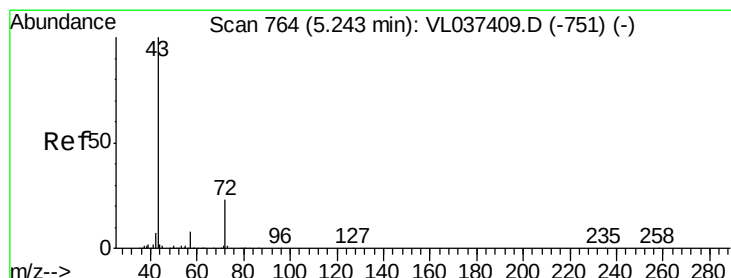
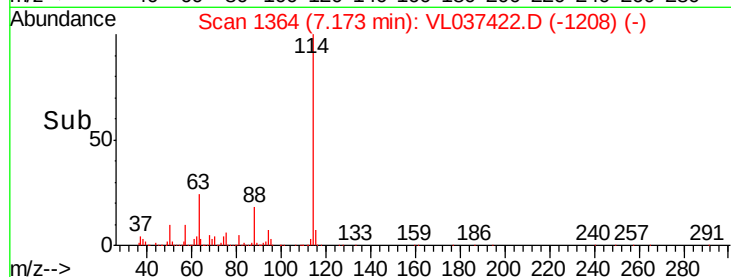
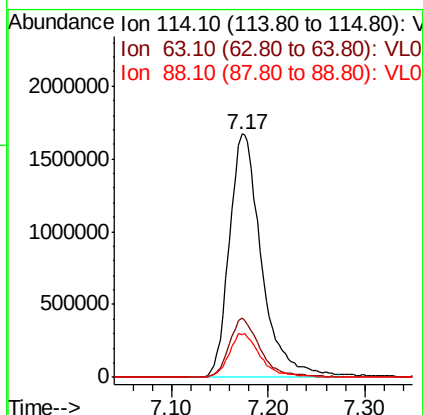
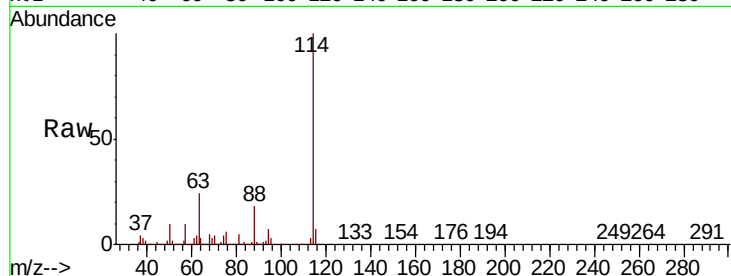




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

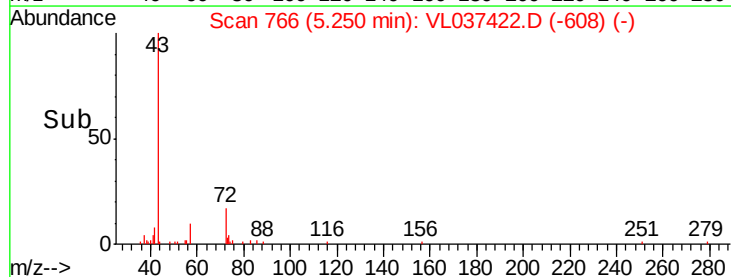
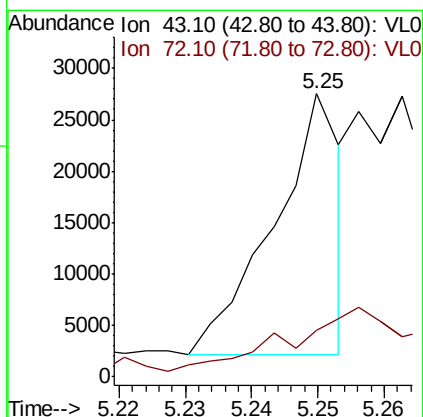
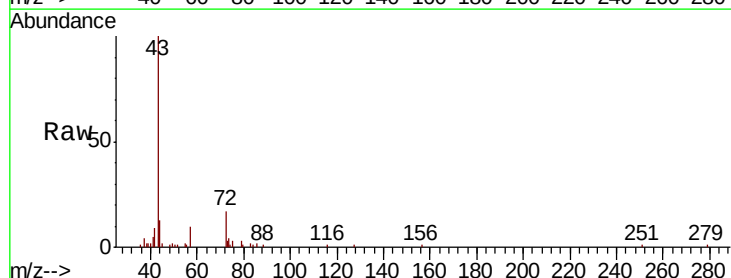
Instrument :
 MSVOA_L
 ClientSampleId :

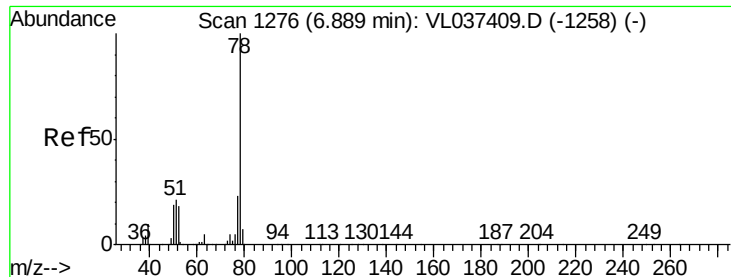
Tot Ion:114 Resp: 3860849
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.4 29.2
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 0.112 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

Tgt Ion: 43 Resp: 17798
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.7 26.5#

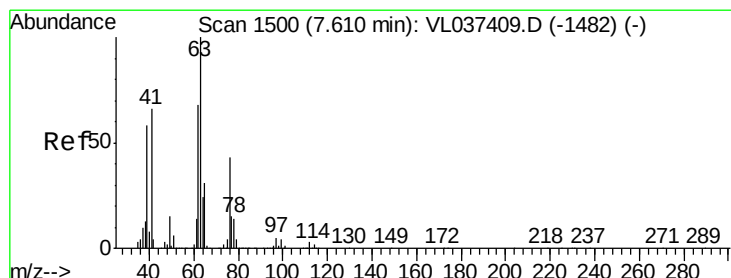
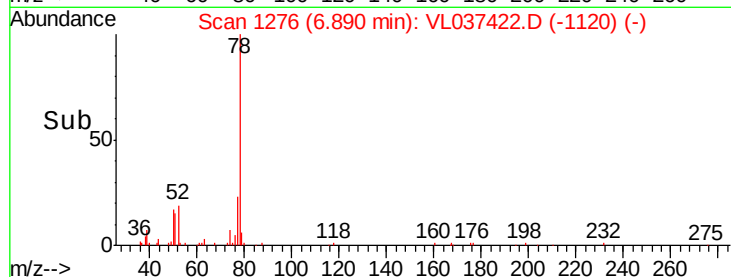
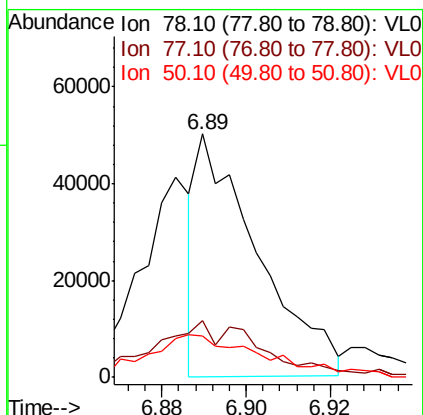
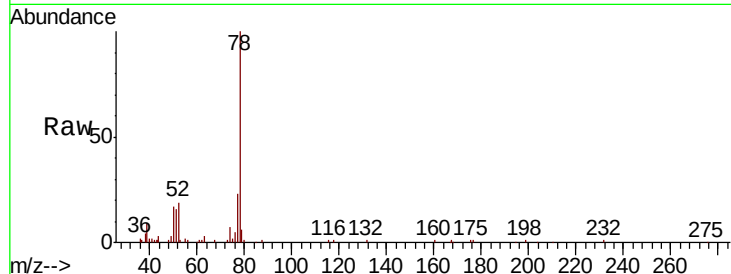




#36
Benzene
Concen: 0.154 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

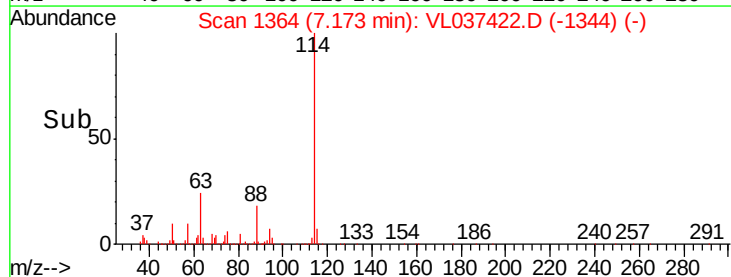
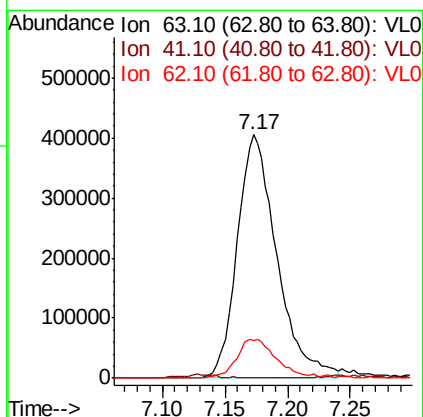
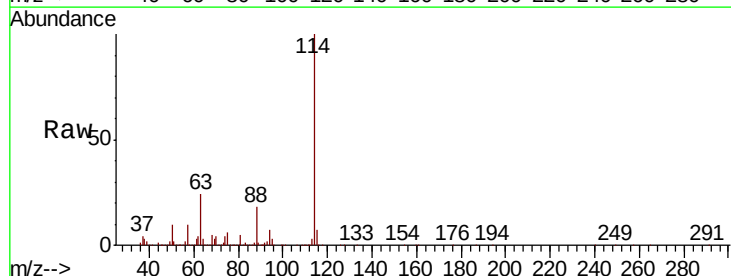
Instrument :
MSVOA_L
ClientSampleId :

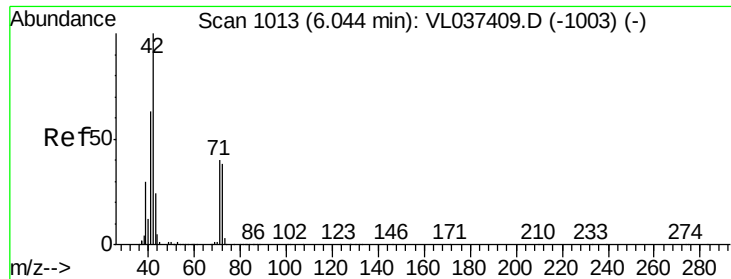
Tot Ion: 78 Resp: 50268
Ion Ratio Lower Upper
78 100
77 22.6 18.6 27.8
50 16.1 14.9 22.3



#39
1,2-Dichloropropane
Concen: 7.175 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.44 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Tgt Ion: 63 Resp: 889870
Ion Ratio Lower Upper
63 100
41 0.0 53.0 79.6#
62 15.7 54.5 81.7#

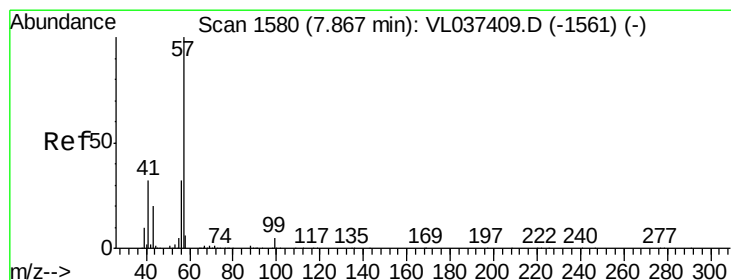
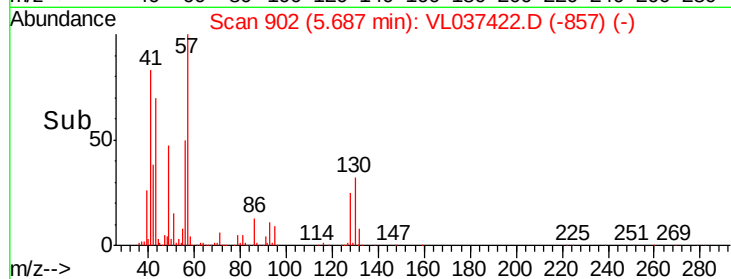
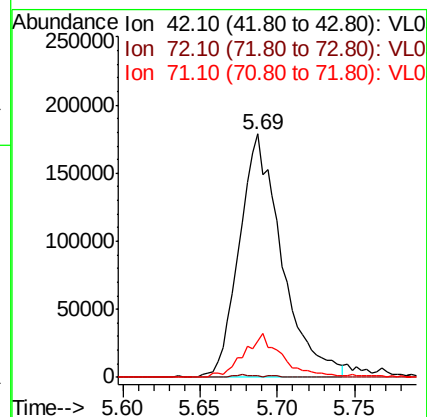
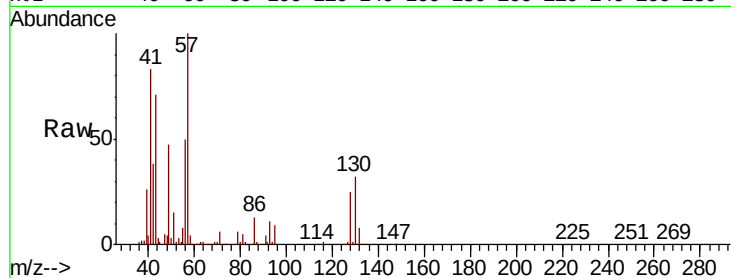




#41
Tetrahydrofuran
Concen: 4.662 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.36 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

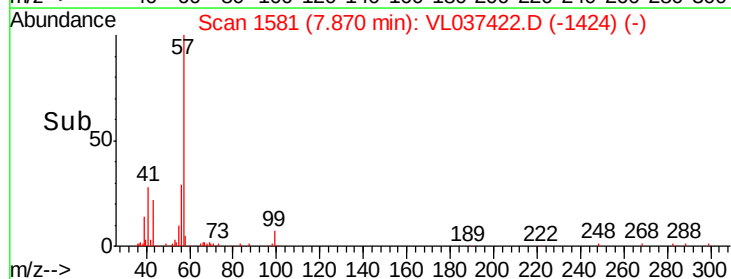
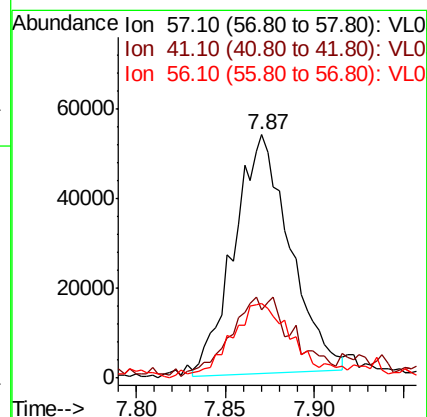
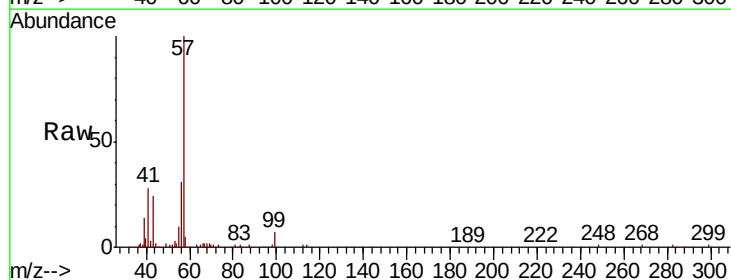
Instrument :
MSVOA_L
ClientSampled :

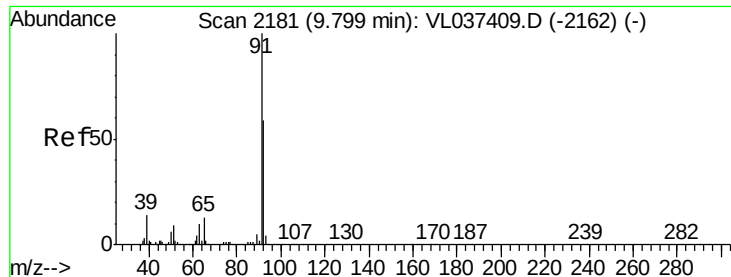
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.8	33.5	50.3#
71	17.0	32.6	48.8#



#44
2,2,4-Trimethylpentane
Concen: 0.215 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.8	26.4	39.6#
56	35.0	25.0	37.4





#53

Toluene

Concen: 0.646 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL037422.D

Acq: 12 Aug 2021 20:45

Instrument :

MSVOA_L

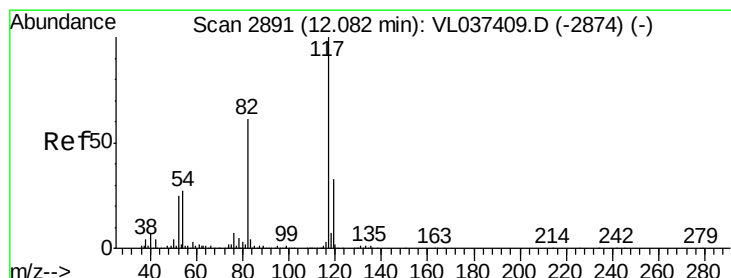
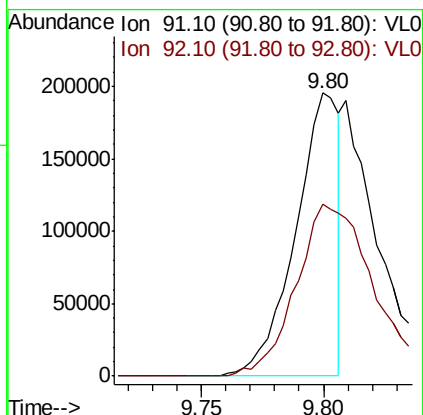
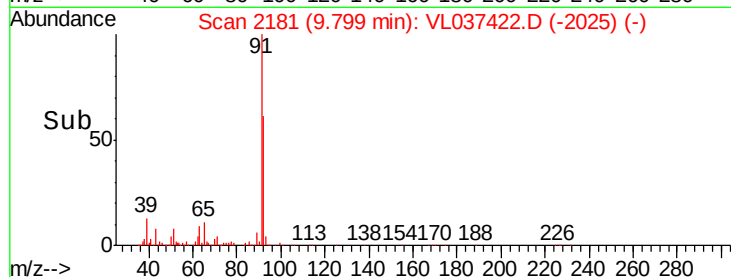
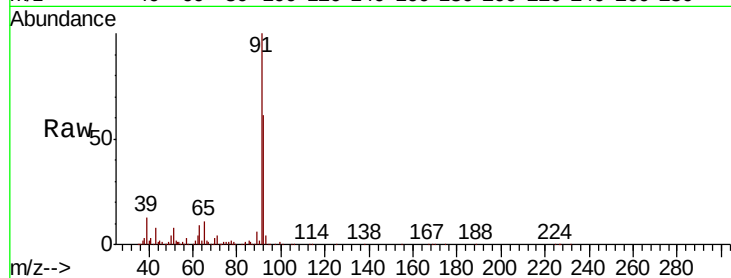
ClientSampleId :

Tot Ion: 91 Resp: 240287

Ion Ratio Lower Upper

91 100

92 115.2 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: VL037422.D

Acq: 12 Aug 2021 20:45

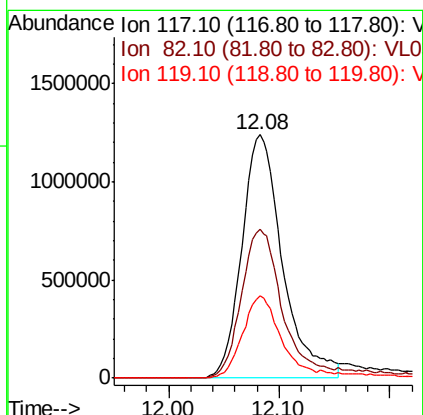
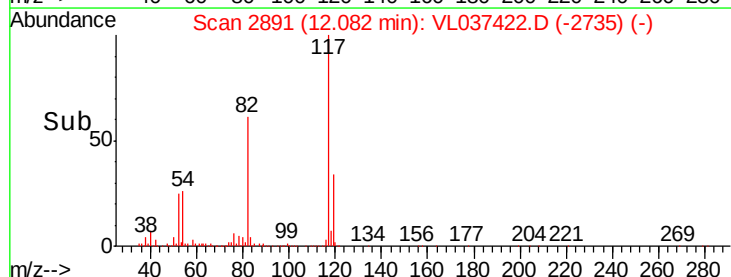
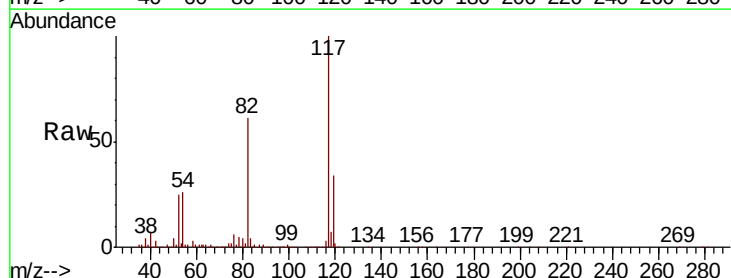
Tgt Ion: 117 Resp: 3172348

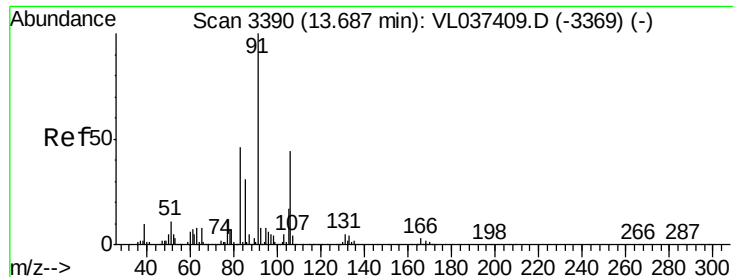
Ion Ratio Lower Upper

117 100

82 68.0 53.1 79.7

119 36.0 28.0 42.0

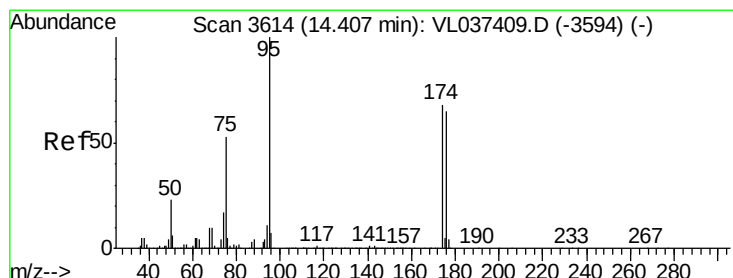
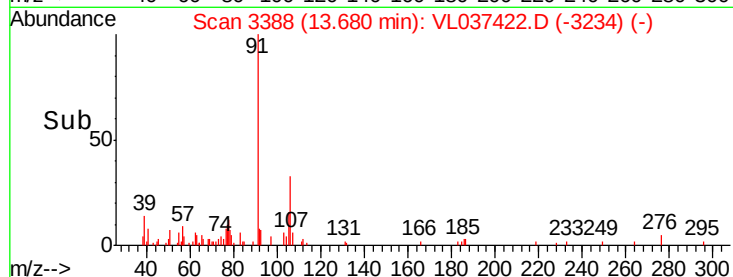
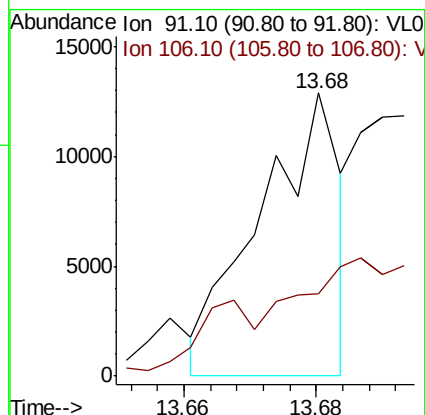
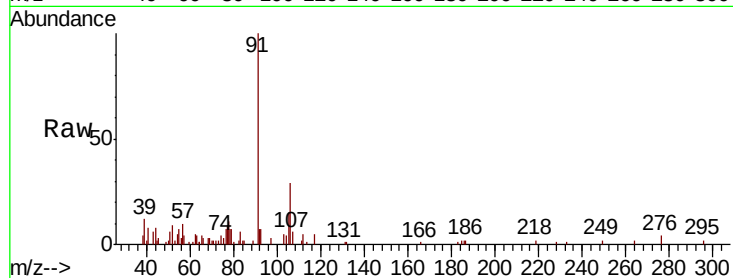




#60
o-Xylene
Concen: 0.031 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

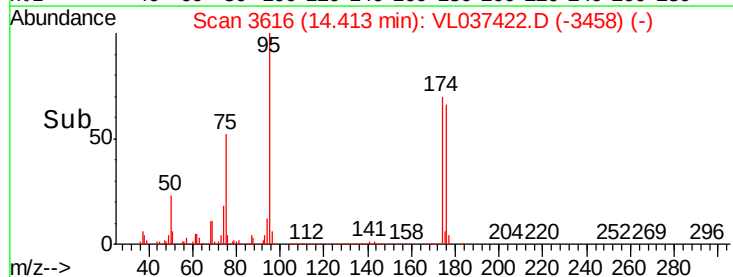
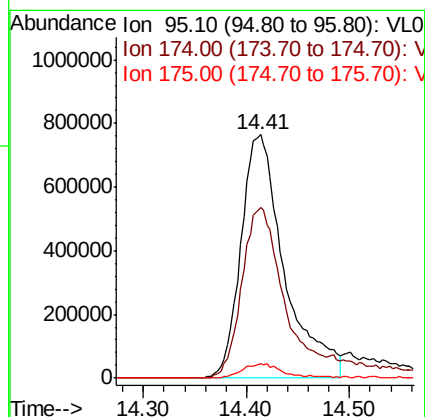
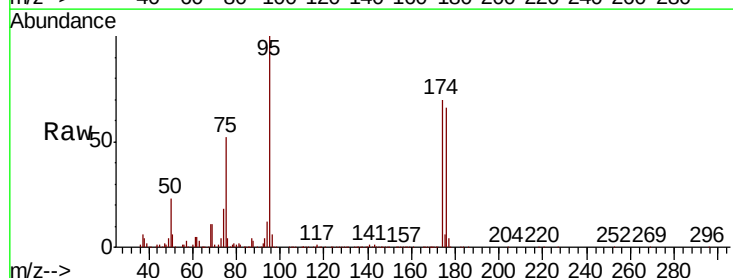
Instrument :
MSVOA_L
ClientSampled :

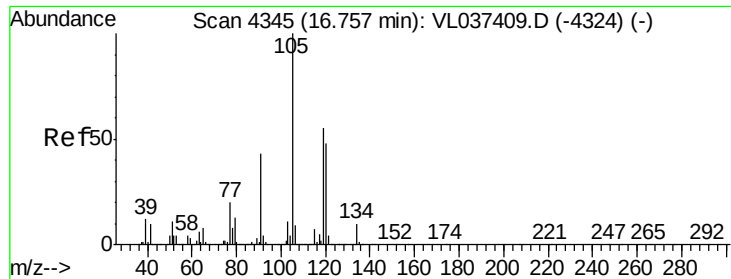
Tot Ion: 91 Resp: 10807
Ion Ratio Lower Upper
91 100
106 135.4 24.1 72.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.01 min
Lab File: VL037422.D
Acq: 12 Aug 2021 20:45

Tgt Ion: 95 Resp: 2243920
Ion Ratio Lower Upper
95 100
174 78.7 59.6 89.4
175 5.9 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL037422.D
 Acq: 12 Aug 2021 20:45

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	12239
Ion	Ratio	Lower	Upper
105	100		
120	60.9	38.2	57.2#
91	20.8	35.4	53.2#
77	16.0	16.2	24.2#

