

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037430.D
 Acq On : 13 Aug 2021 2:00
 Operator : SY/AP
 Sample : M3211-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 03:08:31 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	1328772	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3958271	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3431712	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2549820	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	55691	0.274	ppbv 99
3) Chlorodifluoromethane	2.99	51	76395	0.293	ppbv # 88
4) Chloromethane	3.14	50	47120	0.502	ppbv 96
7) Chloroethane	3.56	64	1552	0.045	ppbv # 40
9) Propene	3.01	41	174817	1.995	ppbv 90
10) Heptane	8.12	43	71180	0.334	ppbv # 84
13) Ethanol	3.61	45	520608	55.674	ppbv 89
15) Acetone	3.84	43	6136211	43.544	ppbv 100
16) 1,3-Butadiene	3.31	39	192640	2.037	ppbv # 29
17) tert-Butyl alcohol	4.31	59	27621	0.205	ppbv # 72
19) Isopropyl Alcohol	3.98	45	276877	3.376	ppbv # 1
20) Methylene Chloride	4.34	84	5584547	74.947	ppbv 98
21) Allyl Chloride	4.41	41	4083	0.037	ppbv # 20
23) Vinyl Acetate	5.06	43	146890	0.679	ppbv # 34
25) Ethyl Acetate	5.69	43	3501626	10.426	ppbv # 77
26) Hexane	5.69	57	4918595	28.379	ppbv # 46
27) Carbon Disulfide	4.55	76	480381	3.288	ppbv 99
29) Chloroform	5.75	83	57461	0.235	ppbv 97
30) Cyclohexane	7.13	84	77667	0.544	ppbv # 1
32) 1,1,1-Trichloroethane	6.51	97	65436	0.266	ppbv 94
34) 2-Butanone	5.24	43	3049422	18.660	ppbv 97
35) Carbon Tetrachloride	7.01	117	22886	0.094	ppbv 95
36) Benzene	6.89	78	236045	0.707	ppbv 95
38) Trichloroethene	7.83	130	16401	0.111	ppbv # 75
39) 1,2-Dichloropropane	7.18	63	920665	7.241	ppbv # 27
41) Tetrahydrofuran	6.04	42	4395518	58.570	ppbv 96
44) 2,2,4-Trimethylpentane	7.87	57	72744	0.130	ppbv # 1
50) 4-Methyl-2-Pentanone	8.75	43	22279	0.108	ppbv # 13
51) 2-Hexanone	10.14	43	47486	0.491	ppbv # 1
52) Tetrachloroethene	11.22	164	798137	5.676	ppbv 99
53) Toluene	9.80	91	652456	1.712	ppbv 99
57) Chlorobenzene	12.13	112	39140	0.141	ppbv # 27
58) Ethyl Benzene	12.70	91	88918	0.191	ppbv 94
59) m/p-Xylene	12.99	91	28198	0.069	ppbv # 31
60) o-Xylene	13.69	91	200690	0.528	ppbv 95
61) Styrene	13.52	104	8073	0.042	ppbv # 10
63) 1,1,2,2-Tetrachloroethane	13.66	83	128779	0.449	ppbv # 61
66) Benzyl Chloride	16.98	91	1717	0.077	ppbv # 65
67) sec-Butylbenzene	17.30	105	100354	0.151	ppbv 96
72) 4-Ethyltoluene	15.83	105	19030	0.043	ppbv # 54
73) 1,3,5-Trimethylbenzene	16.01	105	182409	0.438	ppbv # 80

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Instrument :
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Quant Time: Aug 13 03:08:31 2021
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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

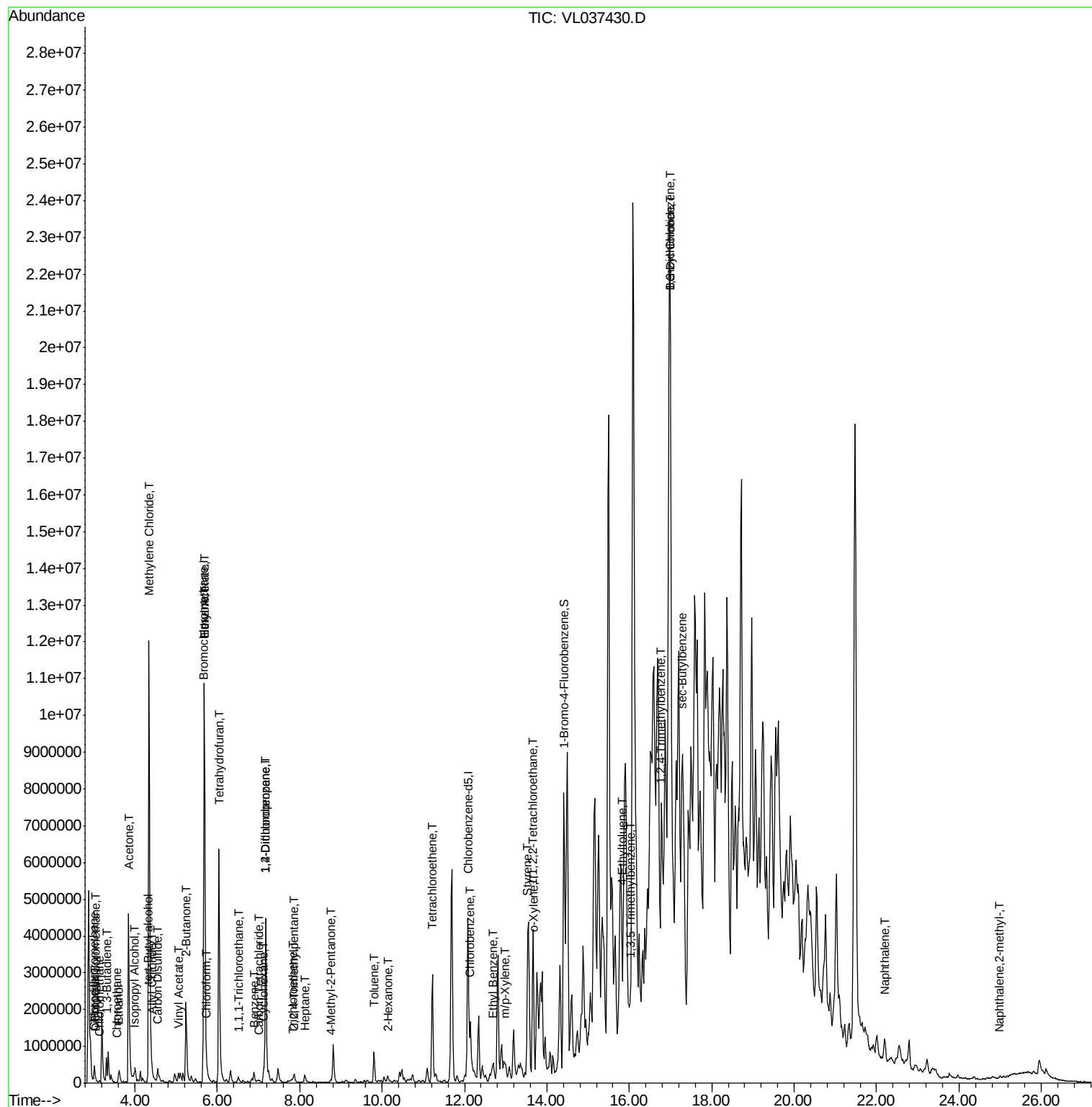
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.76	105	177398	0.416	ppbv #	63
75) 1,3-Dichlorobenzene	16.99	146	24795	0.095	ppbv #	1
79) Naphthalene	22.19	128	31942	0.138	ppbv #	91
80) Naphthalene,2-methyl-	24.96	142	1991	0.041	ppbv #	1

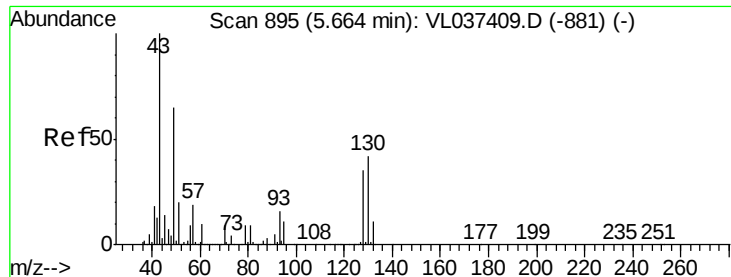
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :
MSVOA_L
ClientSampleId :

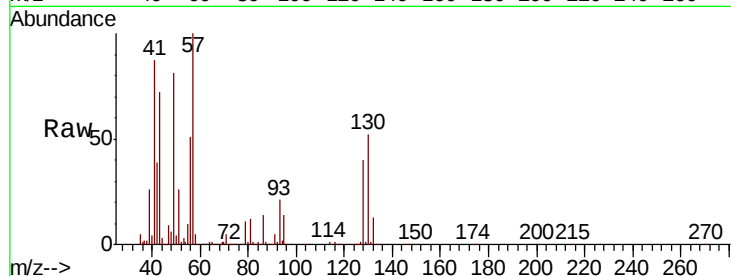
Tot Ion: 49 Resp: 1328772

Ion Ratio Lower Upper

49 100

128 51.4 27.9 83.6

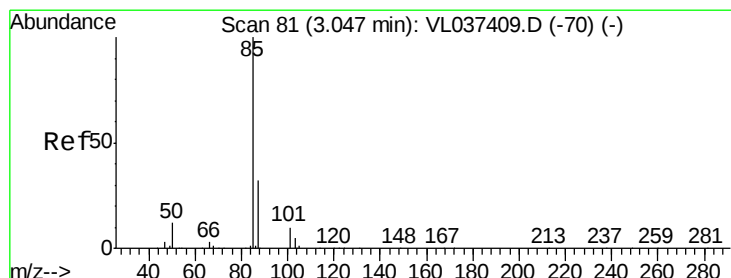
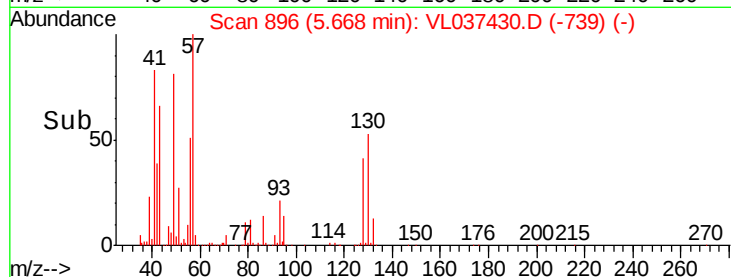
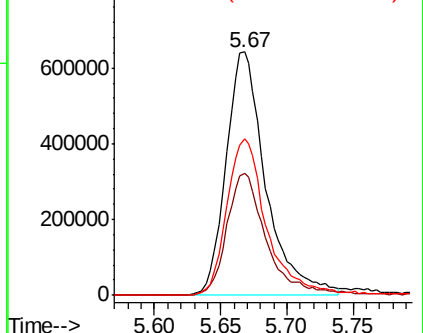
130 66.2 34.6 103.8



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: 0.274 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037430.D

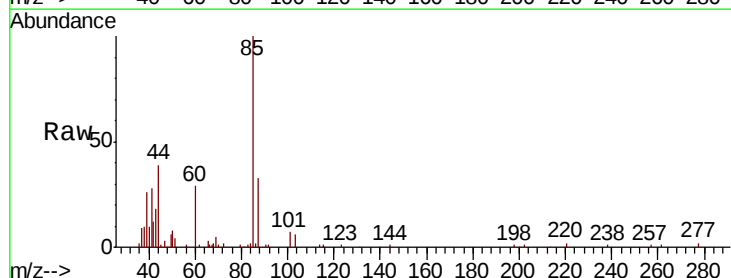
Acq: 13 Aug 2021 2:00

Tgt Ion: 85 Resp: 55691

Ion Ratio Lower Upper

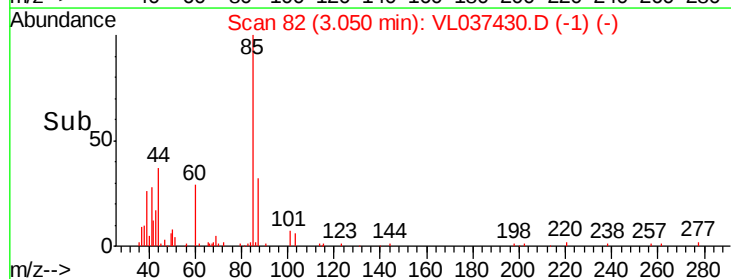
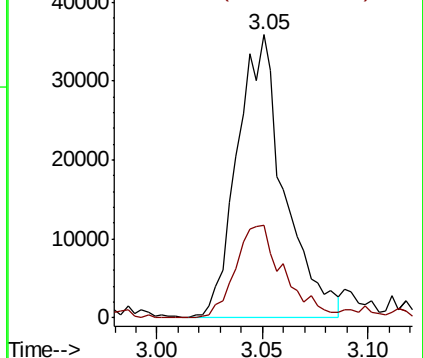
85 100

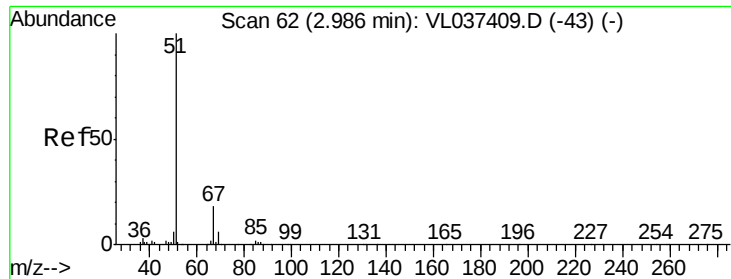
87 32.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

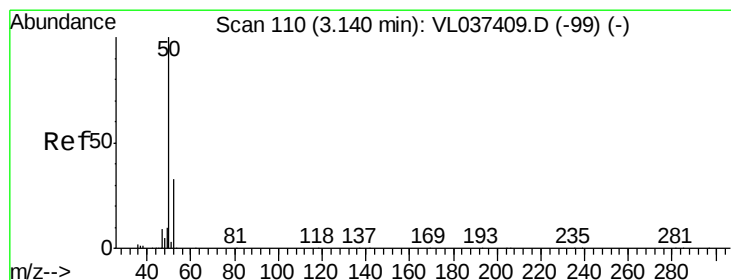
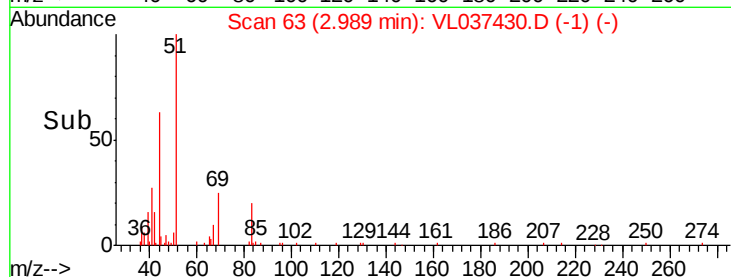
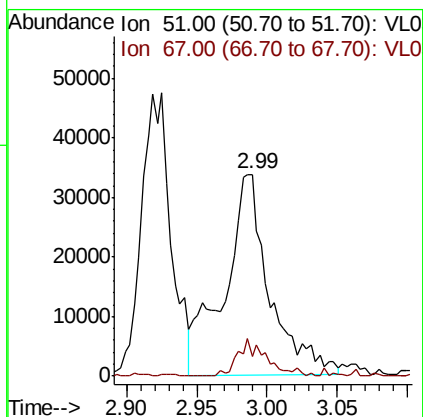
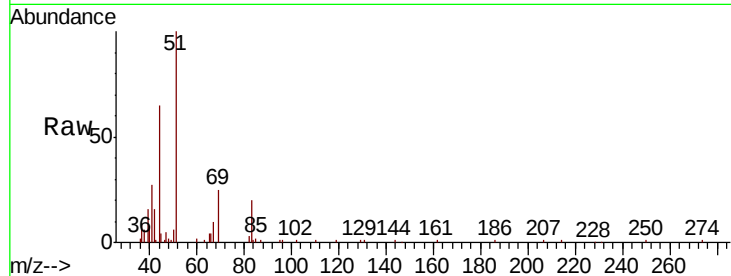




#3
 Chlorodifluoromethane
 Concen: 0.293 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: VL037430.D
 Acq: 13 Aug 2021 2:00

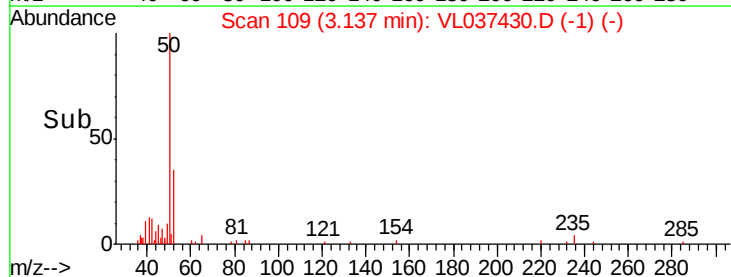
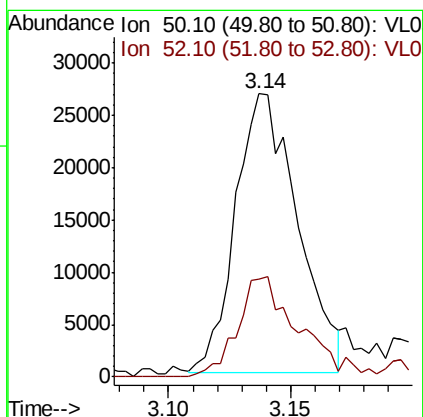
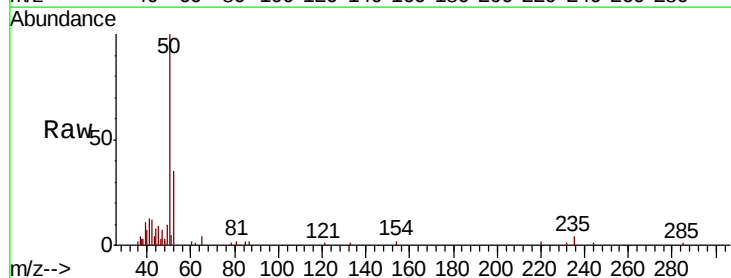
Instrument :
 MSVOA_L
 ClientSampleId :

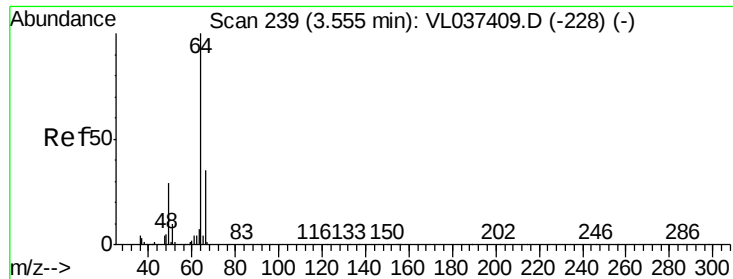
Tot Ion: 51 Resp: 76395
 Ion Ratio Lower Upper
 51 100
 67 13.0 14.7 22.1#



#4
 Chloromethane
 Concen: 0.502 ppbv
 RT: 3.14 min Scan# 109
 Delta R.T. -0.00 min
 Lab File: VL037430.D
 Acq: 13 Aug 2021 2:00

Tgt Ion: 50 Resp: 47120
 Ion Ratio Lower Upper
 50 100
 52 35.2 26.2 39.4





#7

Chloroethane

Concen: 0.045 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

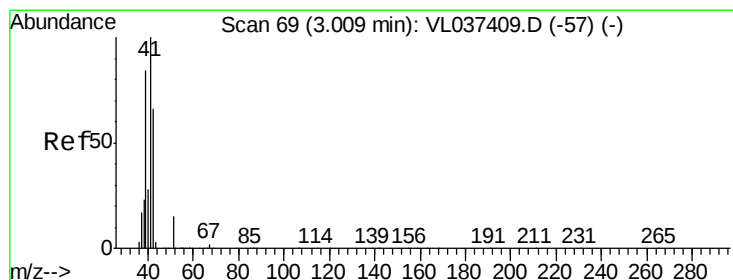
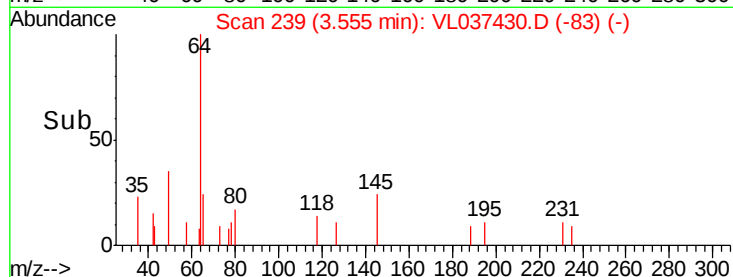
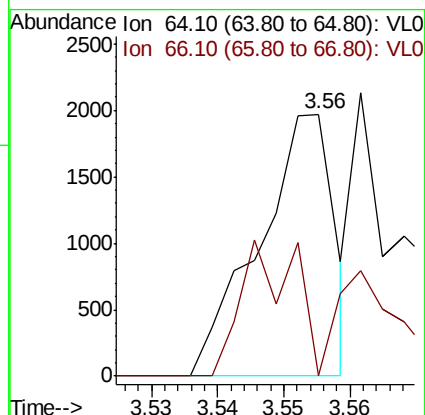
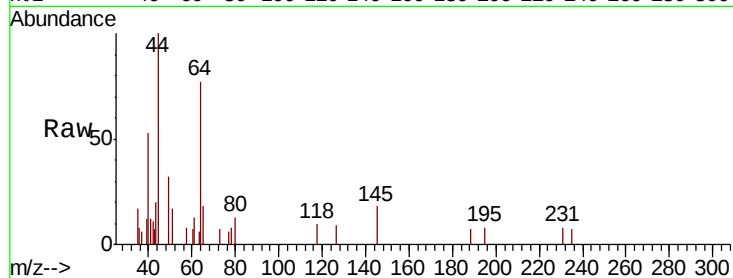
ClientSampled :

Tot Ion: 64 Resp: 1552

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



#9

Propene

Concen: 1.995 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037430.D

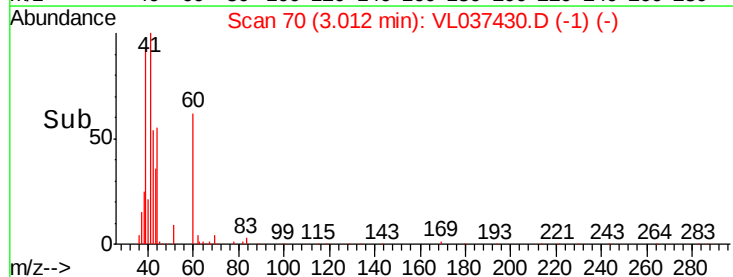
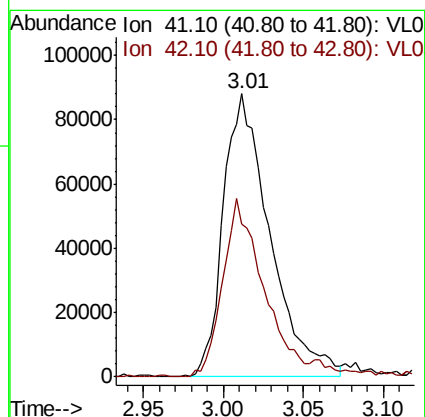
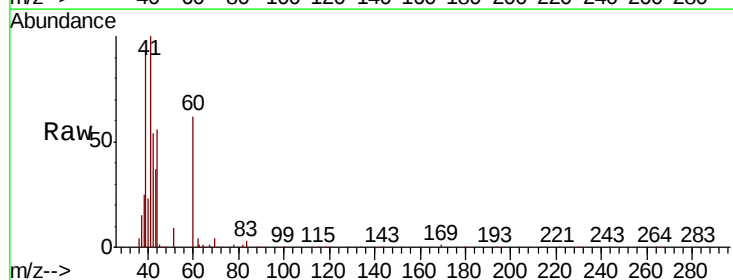
Acq: 13 Aug 2021 2:00

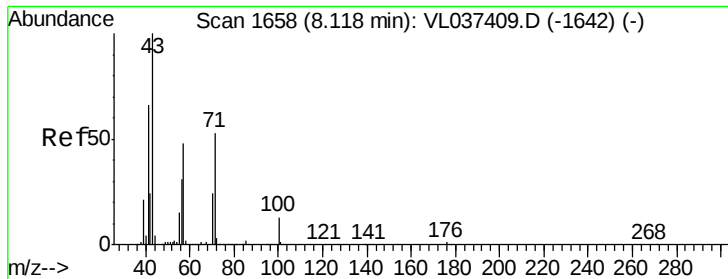
Tgt Ion: 41 Resp: 174817

Ion Ratio Lower Upper

41 100

42 59.4 53.8 80.8

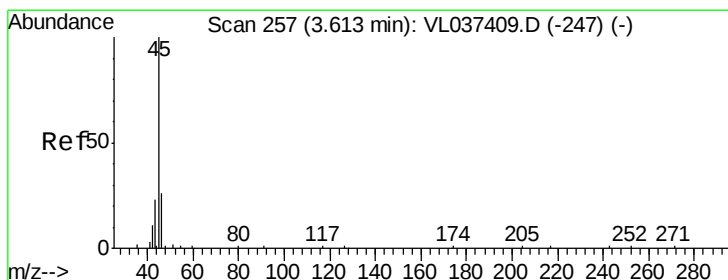
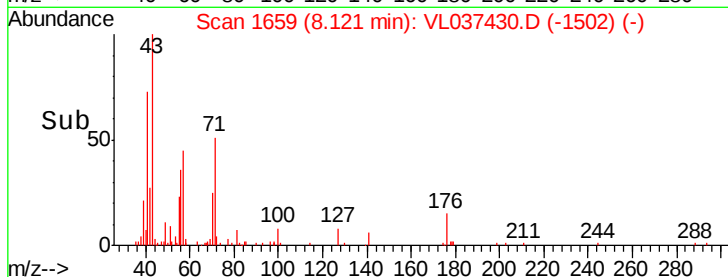
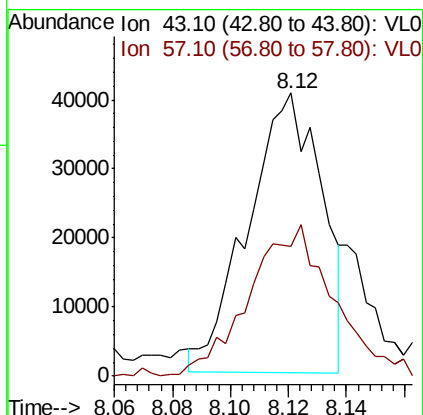
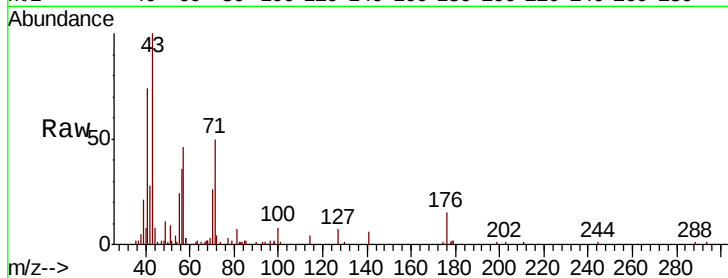




#10
Heptane
Concen: 0.334 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

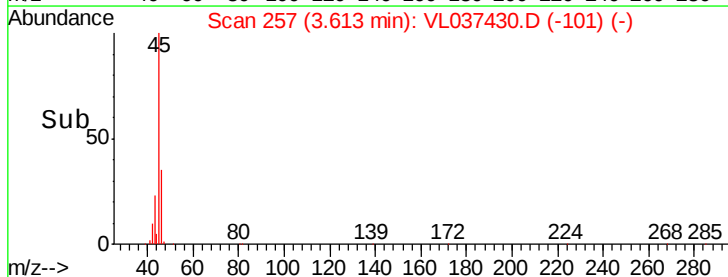
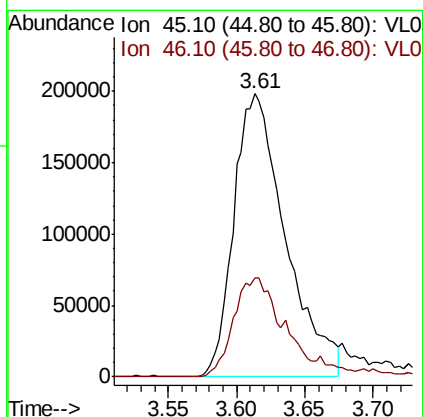
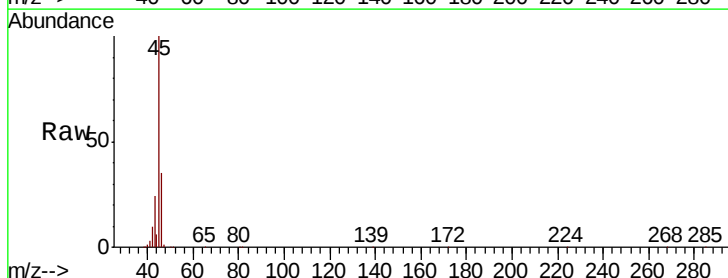
Instrument :
MSVOA_L
ClientSampleId :

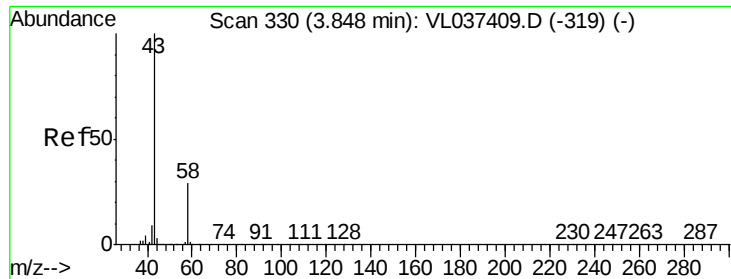
Tot Ion: 43 Resp: 71180
Ion Ratio Lower Upper
43 100
57 61.7 40.3 60.5#



#13
Ethanol
Concen: 55.674 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 45 Resp: 520608
Ion Ratio Lower Upper
45 100
46 37.7 18.0 72.2





#15

Acetone

Concen: 43.544 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

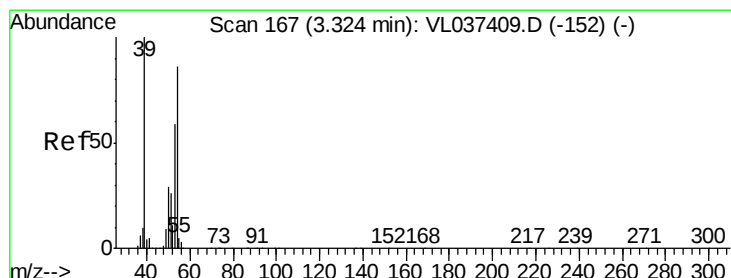
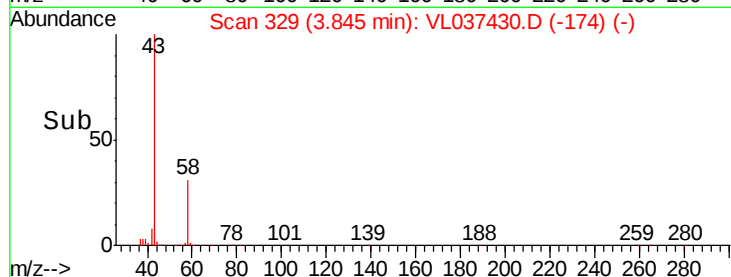
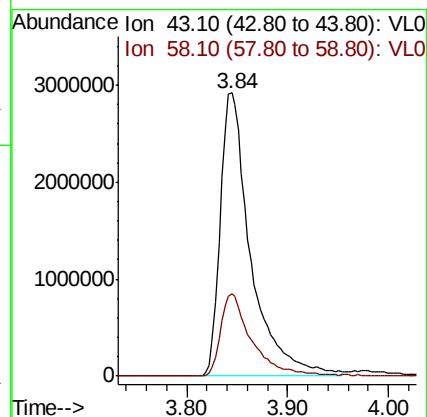
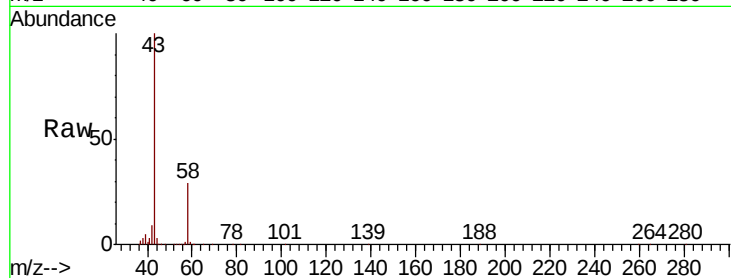
ClientSampleId :

Tot Ion: 43 Resp: 6136211

Ion Ratio Lower Upper

43 100

58 30.4 24.4 36.6



#16

1,3-Butadiene

Concen: 2.037 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL037430.D

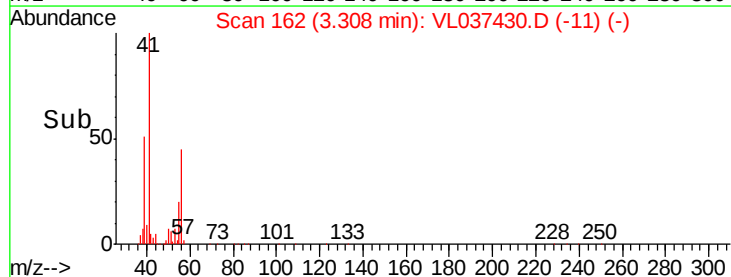
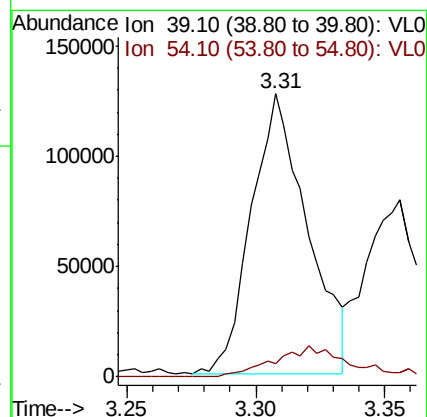
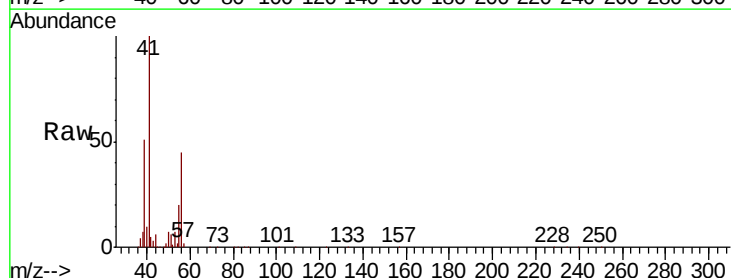
Acq: 13 Aug 2021 2:00

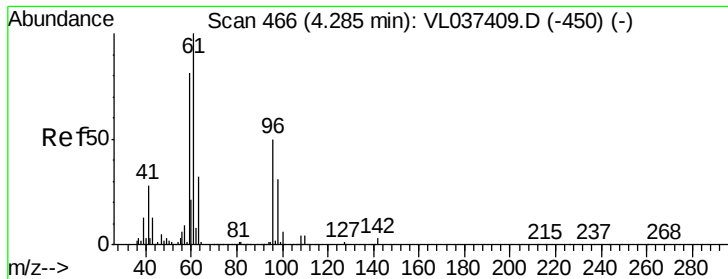
Tgt Ion: 39 Resp: 192640

Ion Ratio Lower Upper

39 100

54 15.4 61.4 92.0#



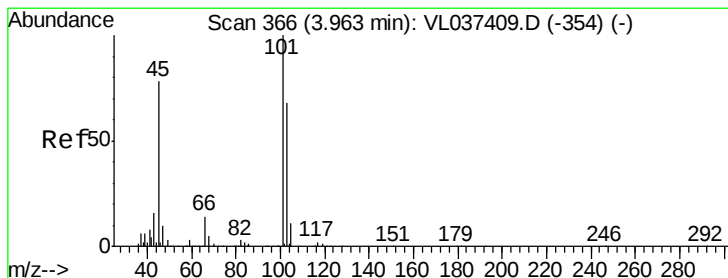
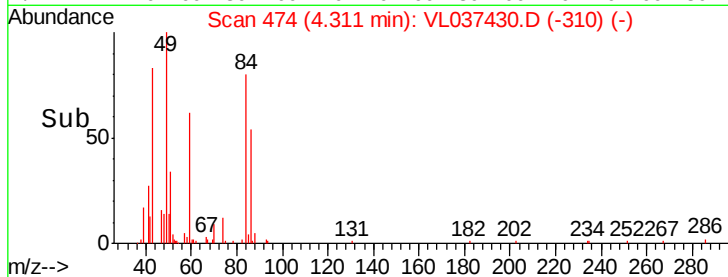
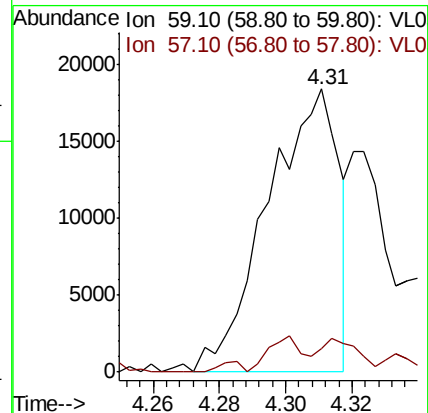
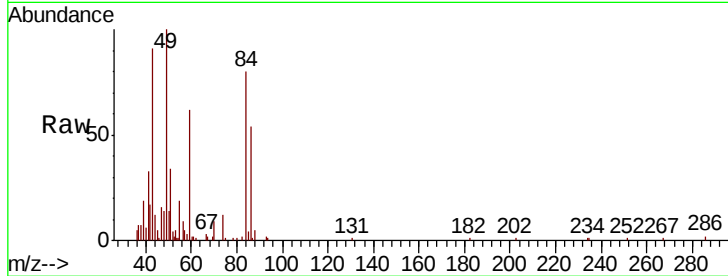


#17

tert-Butyl alcohol
Concen: 0.205 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.03 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Instrument :
MSVOA_L
ClientSampled :

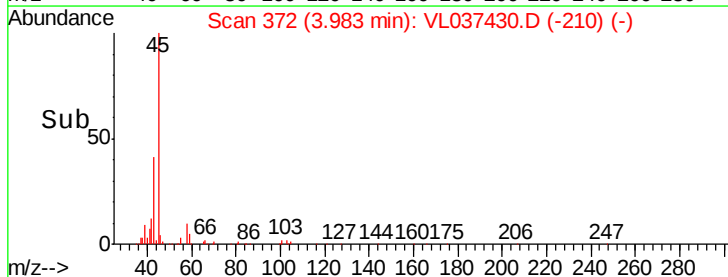
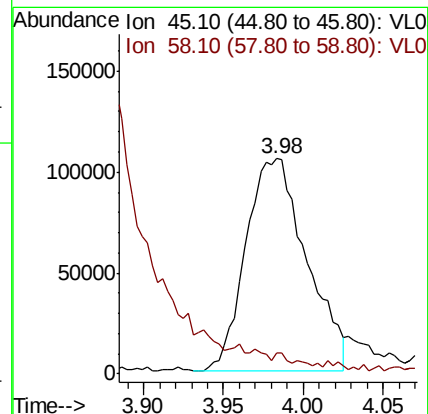
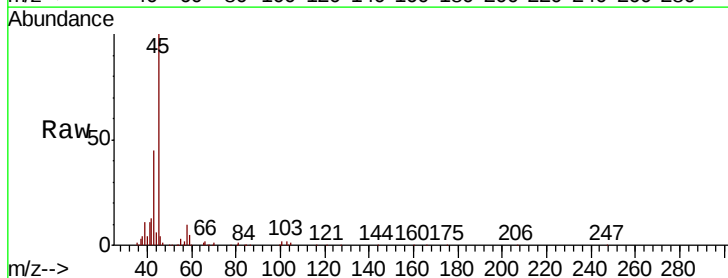
Tot Ion: 59 Resp: 27621
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

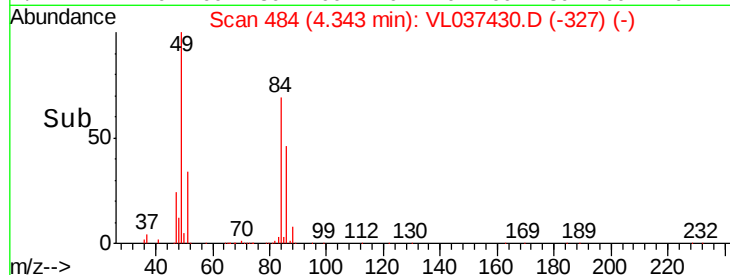
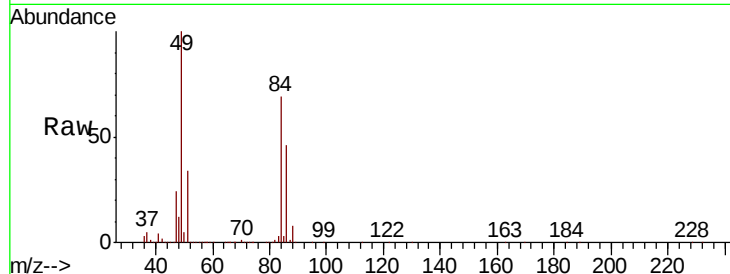
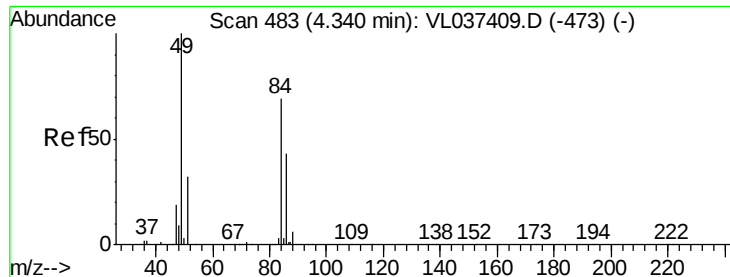


#19

Isopropyl Alcohol
Concen: 3.376 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.02 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 45 Resp: 276877
Ion Ratio Lower Upper
45 100
58 673.7 2.2 3.4#

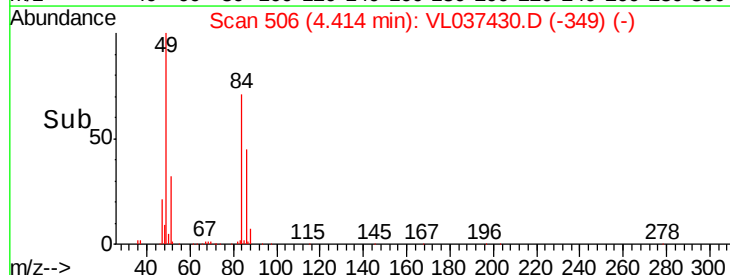
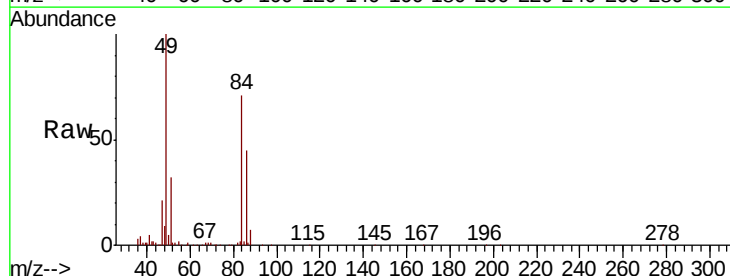
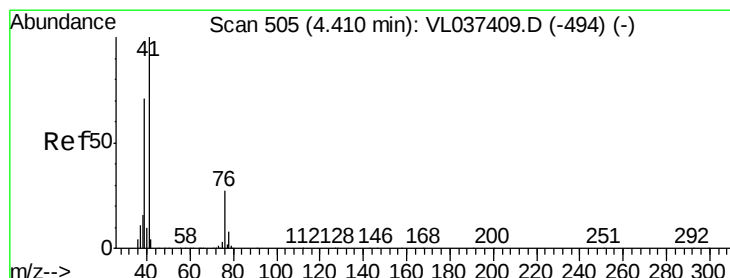
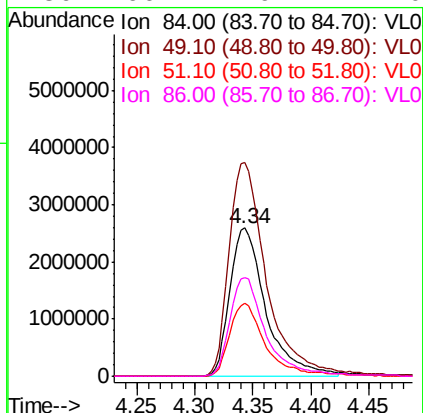




#20
Methylene Chloride
Concen: 74.947 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tot Ion: 84 Resp: 5584547

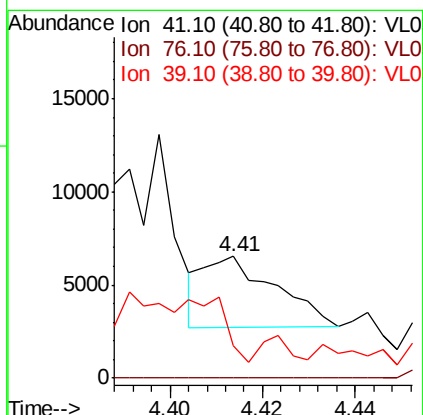
Ion	Ratio	Lower	Upper
84	100		
49	144.4	116.0	174.0
51	49.0	37.1	55.7
86	66.2	49.4	74.0

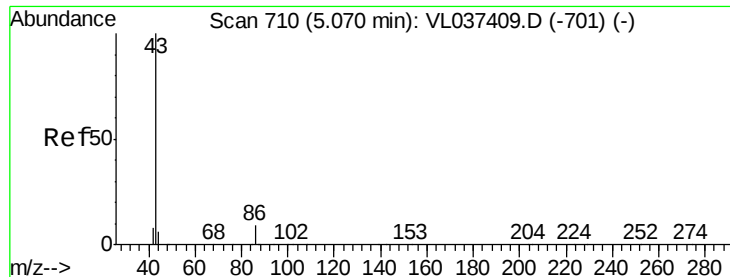


#21
Allyl Chloride
Concen: 0.037 ppbv
RT: 4.41 min Scan# 506
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 41 Resp: 4083

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	0.0	62.3	93.5#





#23

Vinyl Acetate

Concen: 0.679 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 146890

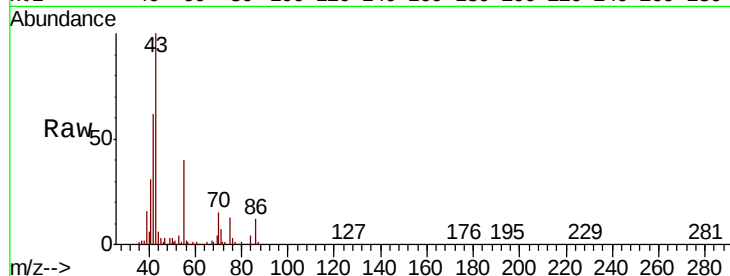
Ion Ratio Lower Upper

43 100

86 10.8 5.8 8.8#

42 60.8 7.7 11.5#

44 3.0 4.0 6.0#

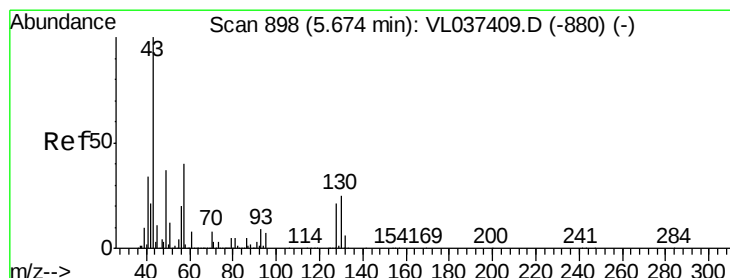
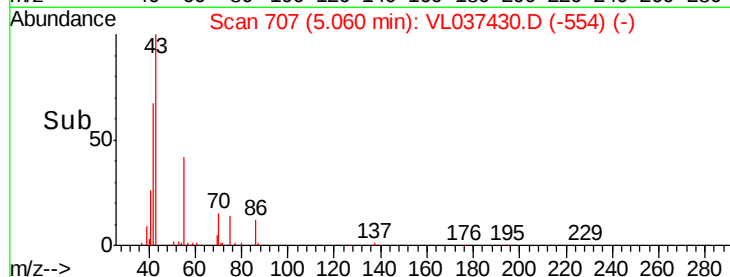
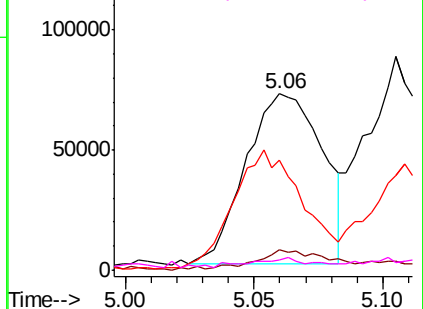


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.426 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Tgt Ion: 43 Resp: 3501626

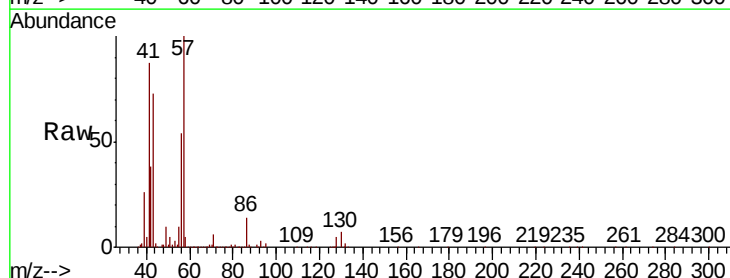
Ion Ratio Lower Upper

43 100

45 0.2 7.9 11.9#

61 0.3 7.7 11.5#

70 1.4 5.8 8.6#

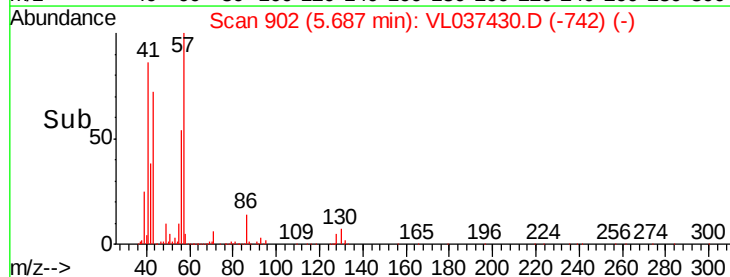
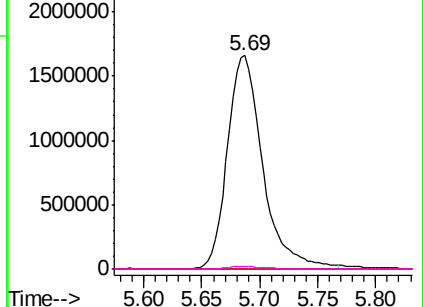


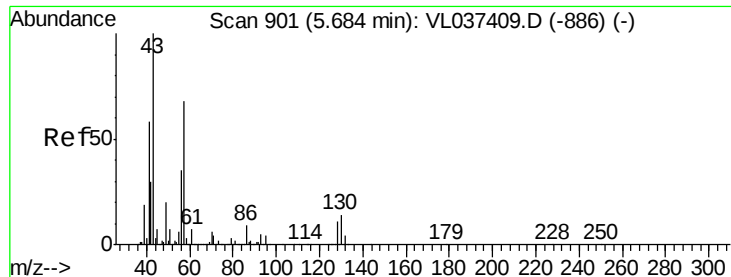
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

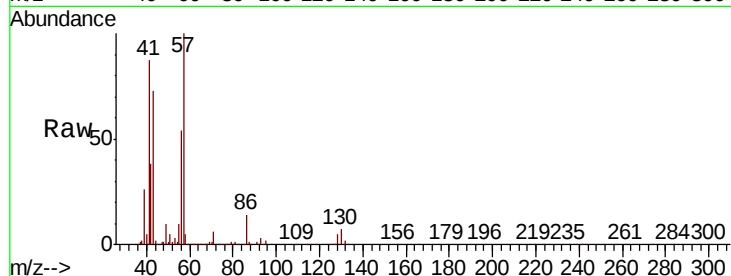




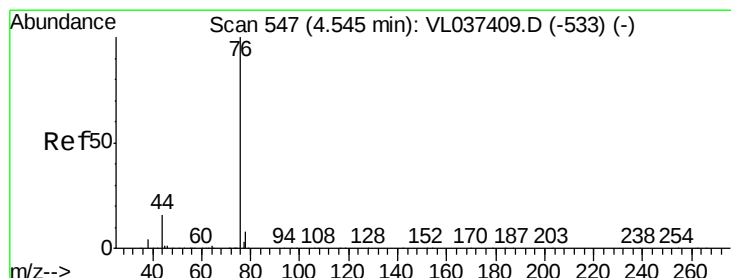
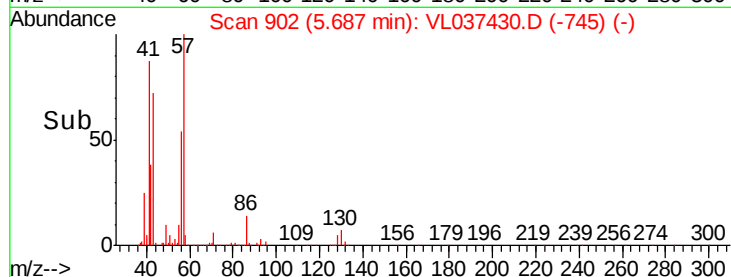
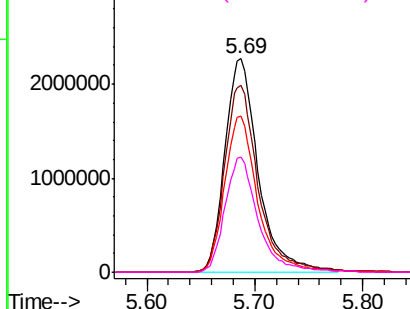
#26
Hexane
Concen: 28.379 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 4918595
Ion Ratio Lower Upper
57 100
41 88.9 72.5 108.7
43 72.1 169.3 253.9#
56 53.6 42.3 63.5

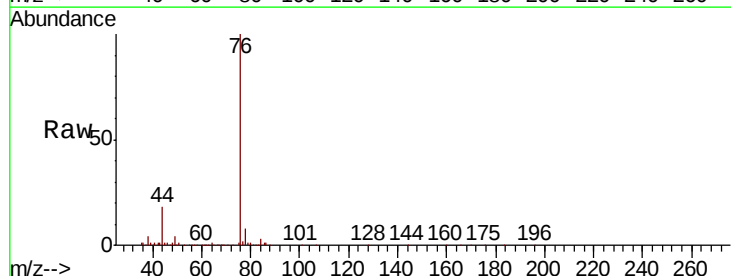


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

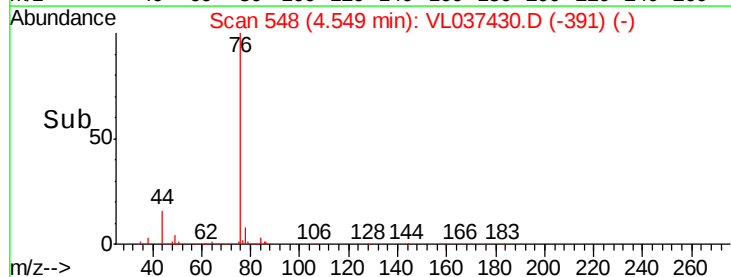
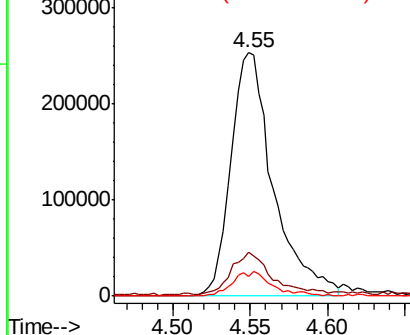


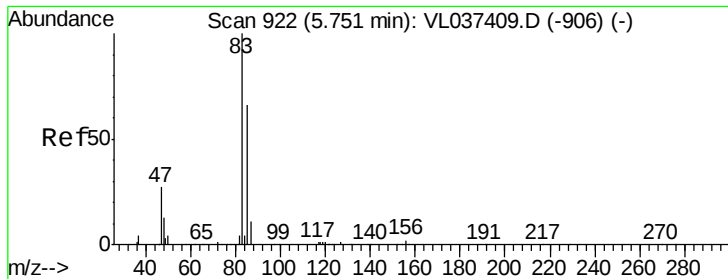
#27
Carbon Disulfide
Concen: 3.288 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 76 Resp: 480381
Ion Ratio Lower Upper
76 100
44 18.4 14.4 21.6
78 9.9 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

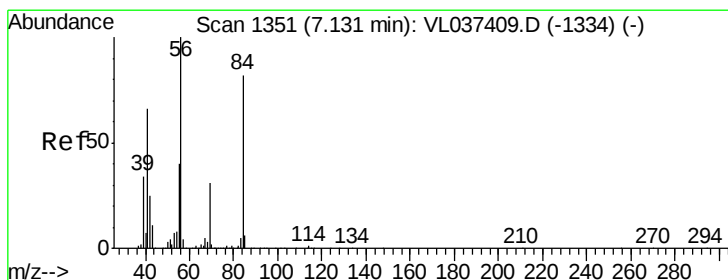
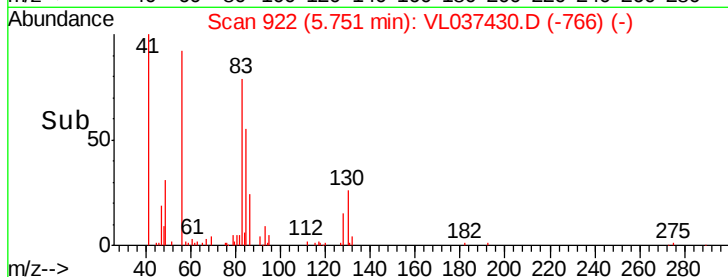
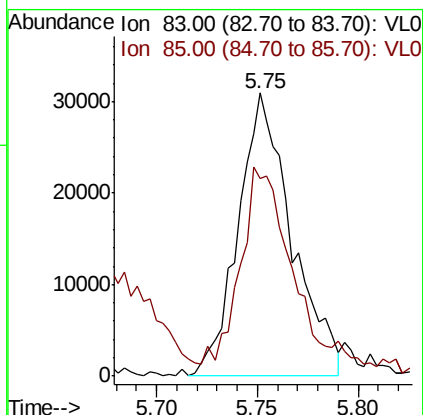
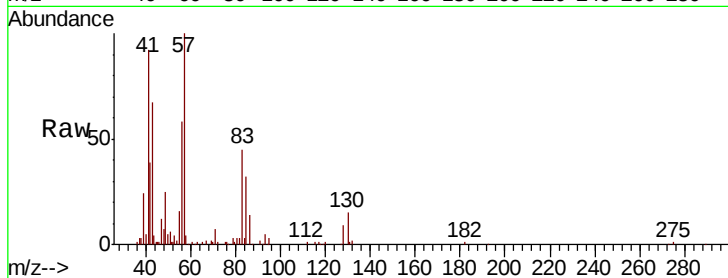




#29
Chloroform
Concen: 0.235 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

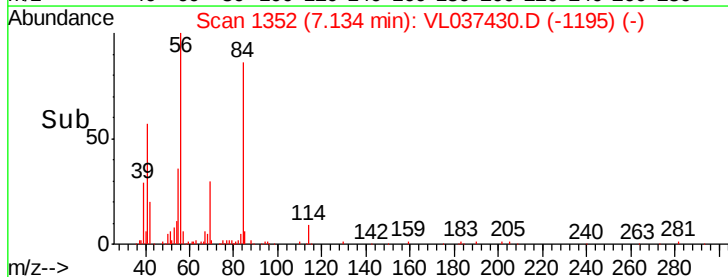
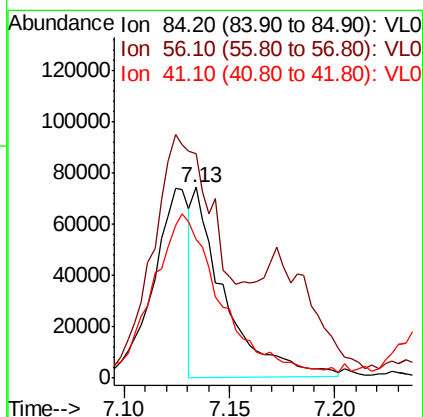
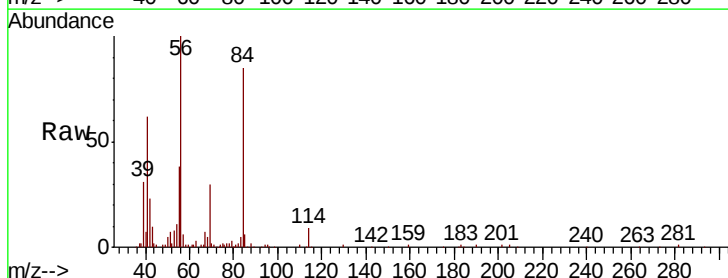
Instrument :
MSVOA_L
ClientSampleId :

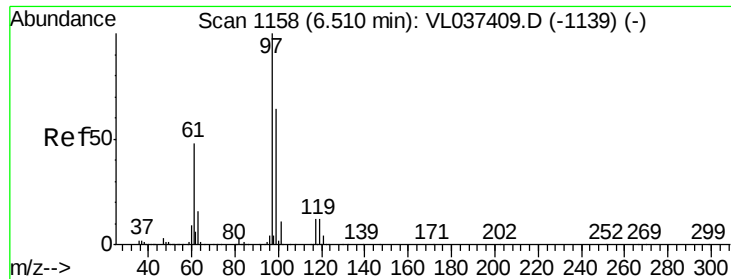
Tot Ion: 83 Resp: 57461
Ion Ratio Lower Upper
83 100
85 63.5 52.4 78.6



#30
Cyclohexane
Concen: 0.544 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 84 Resp: 77667
Ion Ratio Lower Upper
84 100
56 0.0 109.6 164.4#
41 0.0 66.6 99.8#

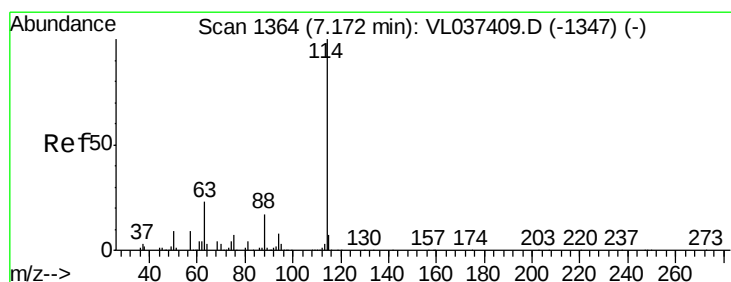
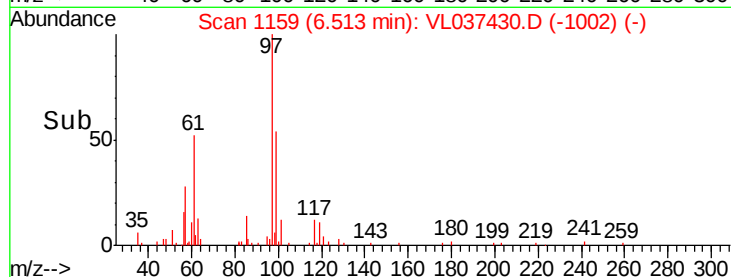
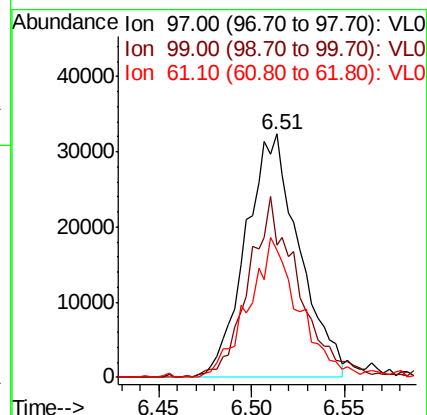
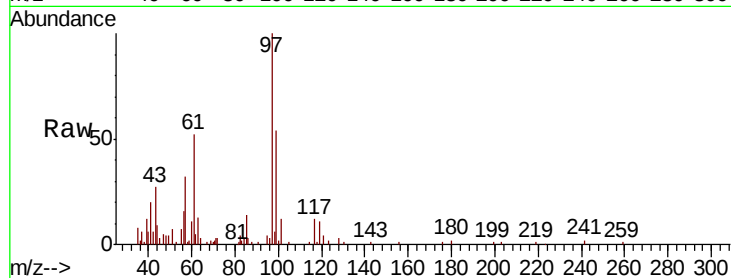




#32
 1,1,1-Trichloroethane
 Concen: 0.266 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. 0.00 min
 Lab File: VL037430.D
 Acq: 13 Aug 2021 2:00

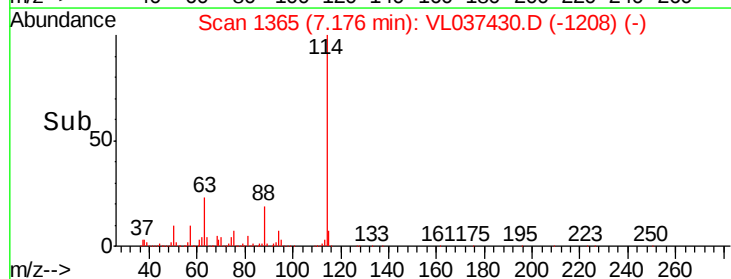
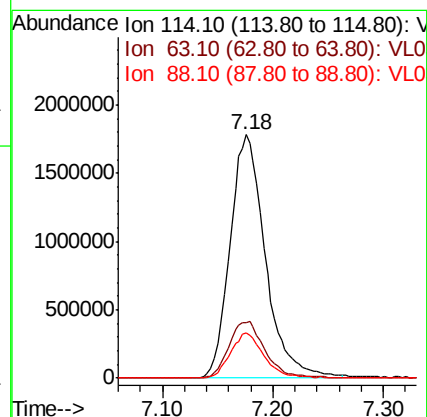
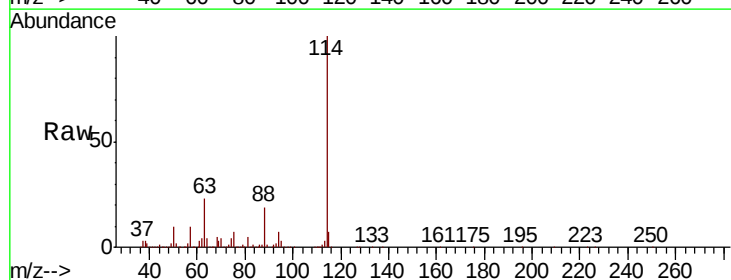
Instrument :
 MSVOA_L
 ClientSampleId :

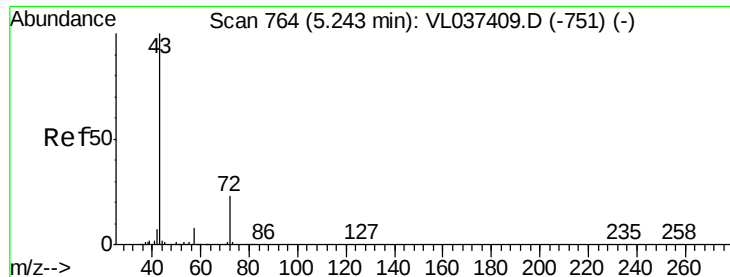
Tot Ion	Ratio	Lower	Upper
97	100		
99	69.6	52.3	78.5
61	55.4	40.1	60.1



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL037430.D
 Acq: 13 Aug 2021 2:00

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.2
88	18.0	14.2	21.4

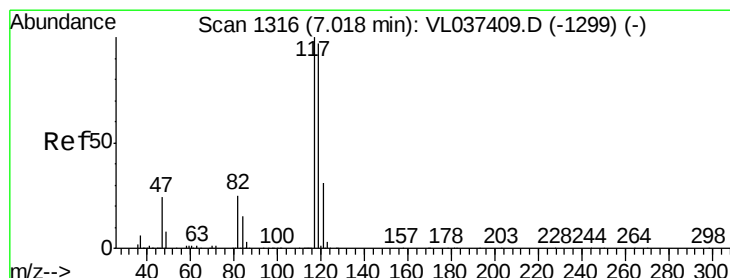
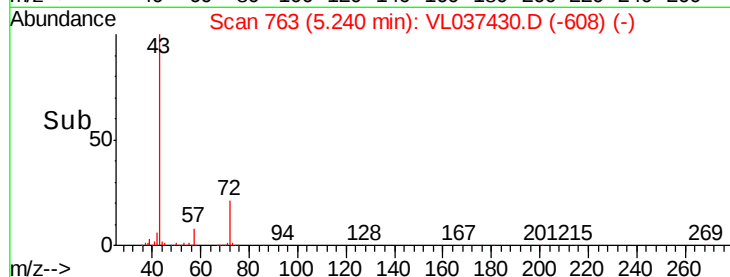
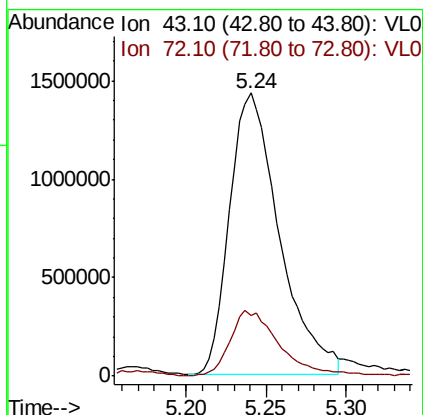
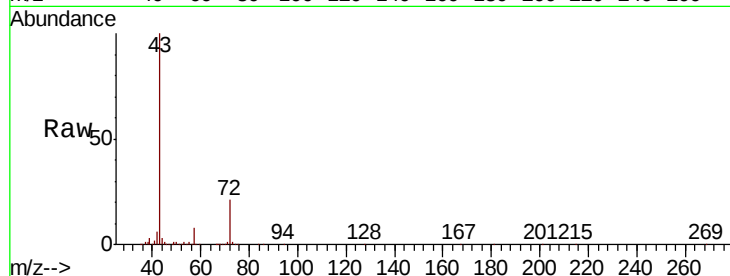




#34
2-Butanone
Concen: 18.660 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

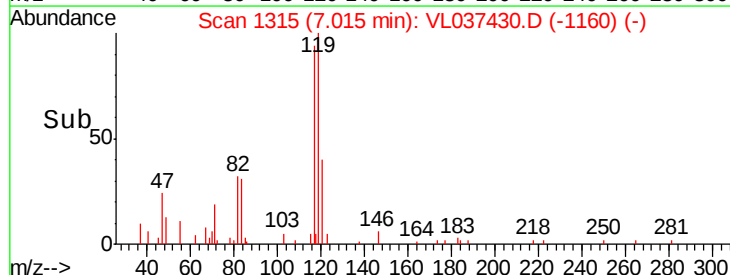
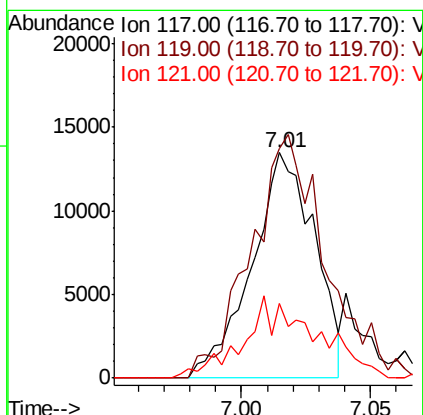
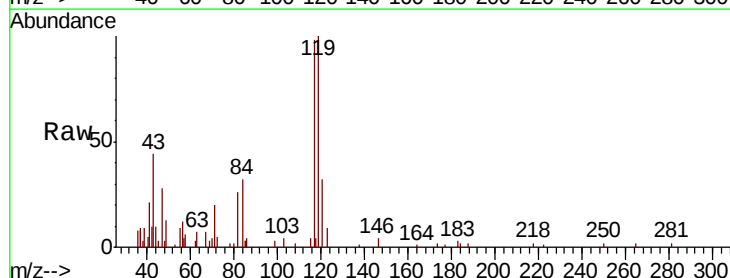
Instrument :
MSVOA_L
ClientSampleId :

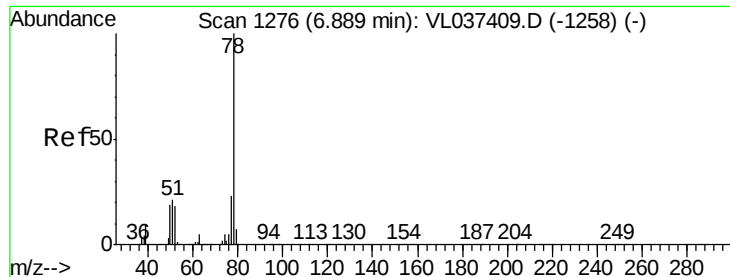
Tot Ion: 43 Resp: 3049422
Ion Ratio Lower Upper
43 100
72 23.4 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.094 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 117 Resp: 22886
Ion Ratio Lower Upper
117 100
119 101.9 77.5 116.3
121 29.0 24.7 37.1





#36

Benzene

Concen: 0.707 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

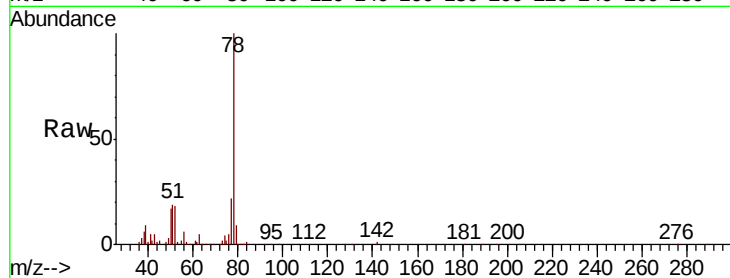
Tot Ion: 78 Resp: 236045

Ion Ratio Lower Upper

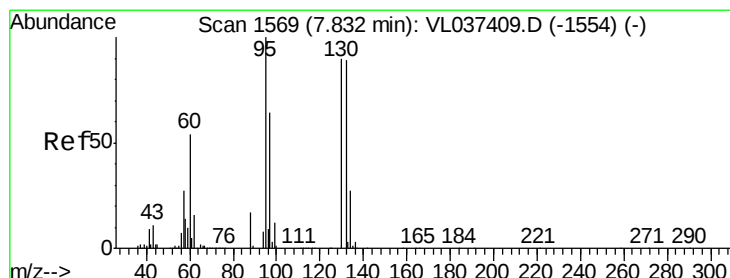
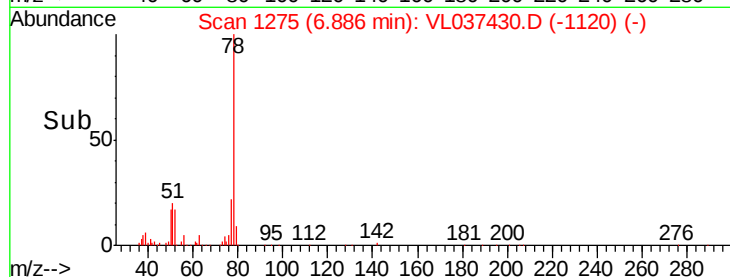
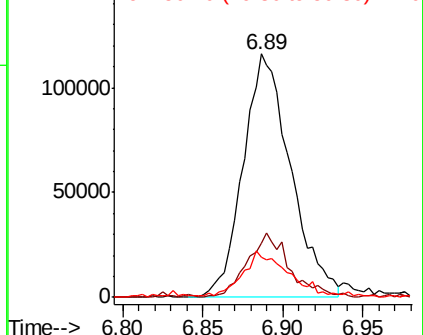
78 100

77 21.2 18.6 27.8

50 15.9 14.9 22.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.111 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Tgt Ion: 130 Resp: 16401

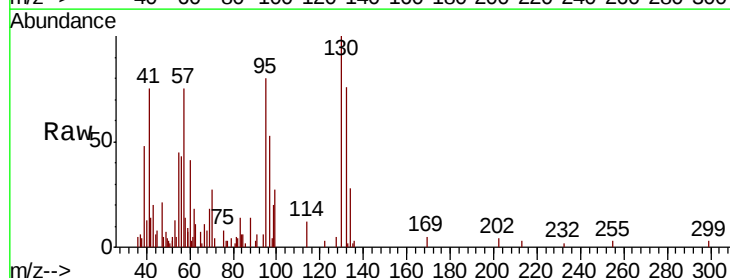
Ion Ratio Lower Upper

130 100

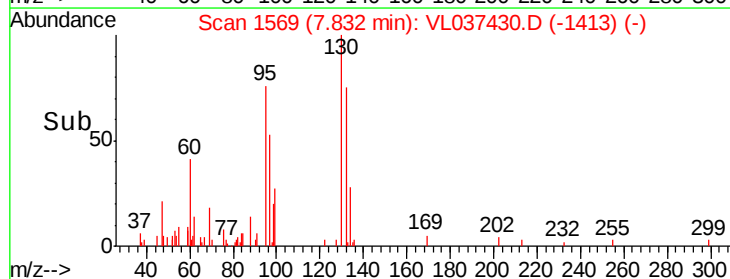
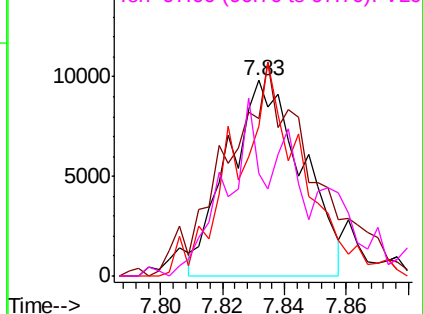
95 79.0 88.6 132.8#

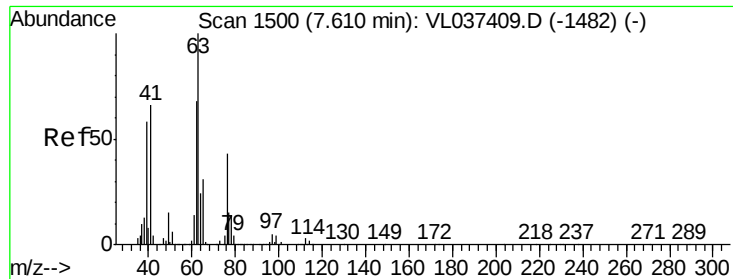
132 80.4 79.2 118.8

97 49.8 56.9 85.3#



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.241 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.43 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

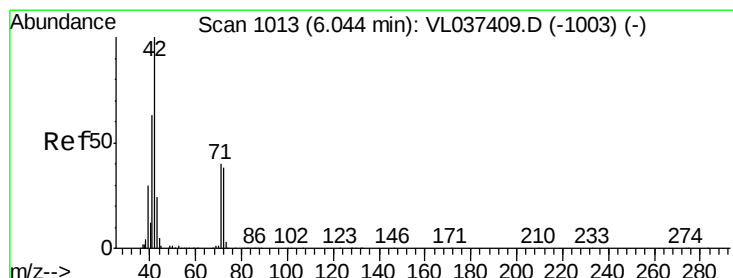
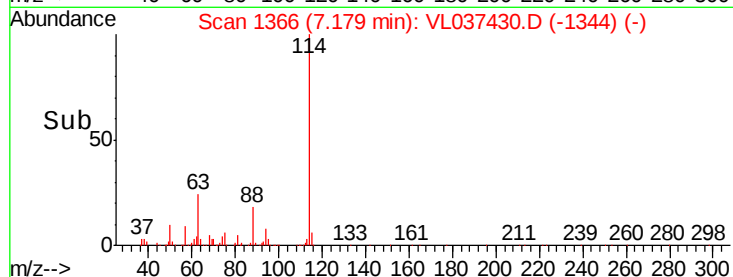
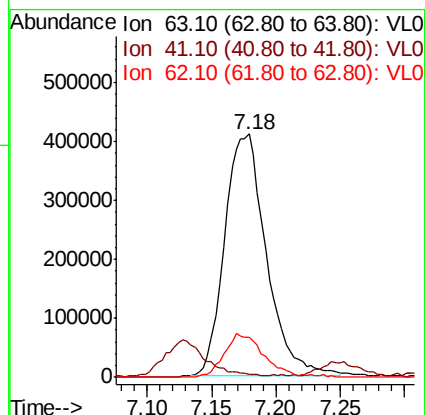
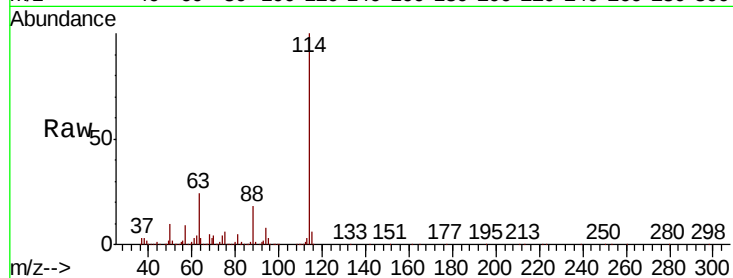
Tot Ion: 63 Resp: 920665

Ion Ratio Lower Upper

63 100

41 0.0 53.0 79.6#

62 16.3 54.5 81.7#



#41

Tetrahydrofuran

Concen: 58.570 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

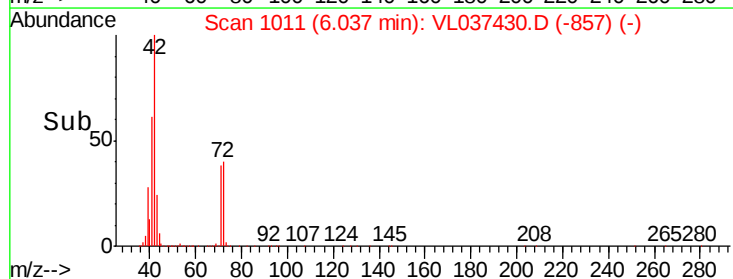
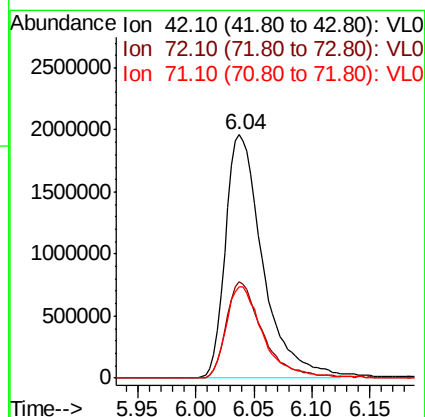
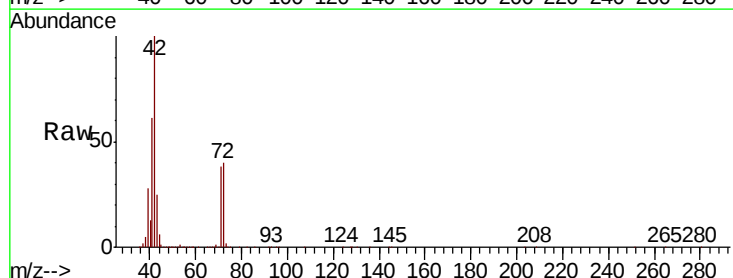
Tgt Ion: 42 Resp: 4395518

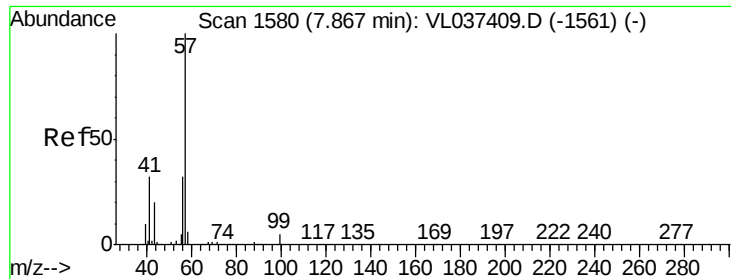
Ion Ratio Lower Upper

42 100

72 39.4 33.5 50.3

71 38.4 32.6 48.8

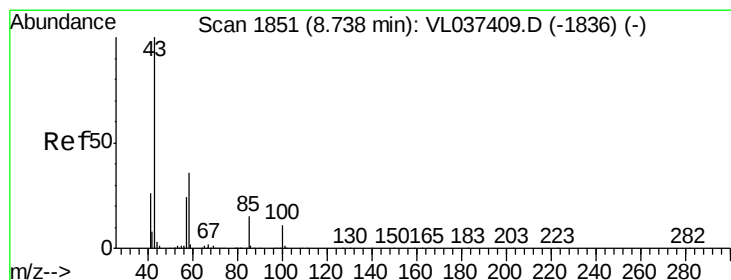
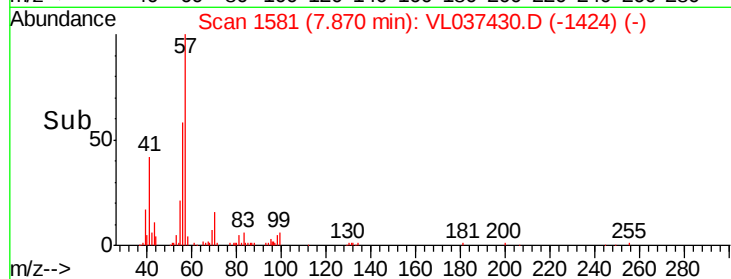
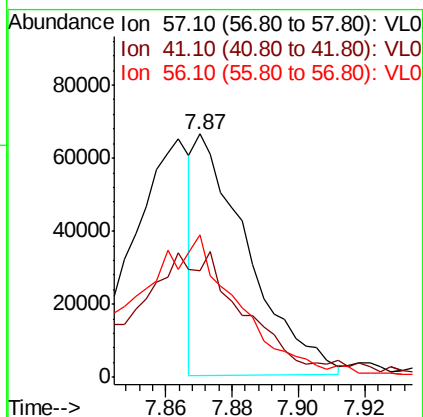
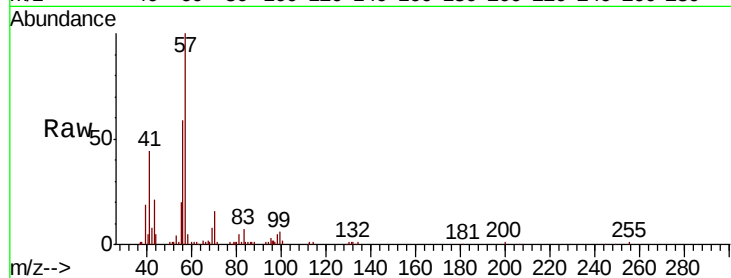




#44
 2,2,4-Trimethylpentane
 Concen: 0.130 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VL037430.D
 Acq: 13 Aug 2021 2:00

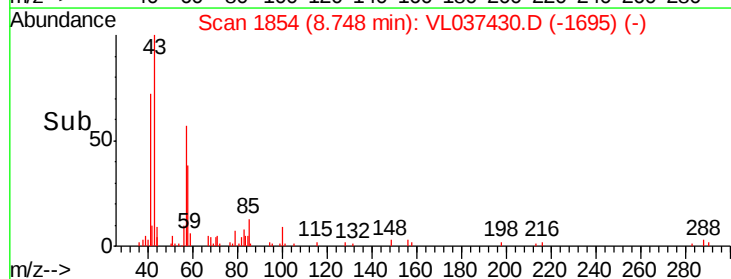
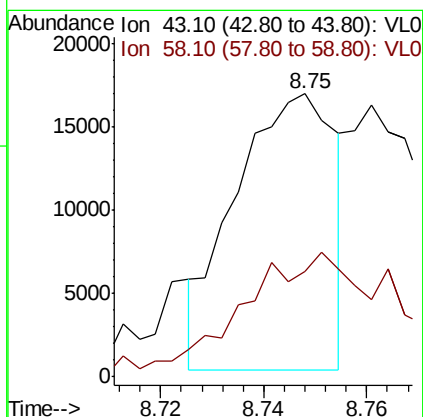
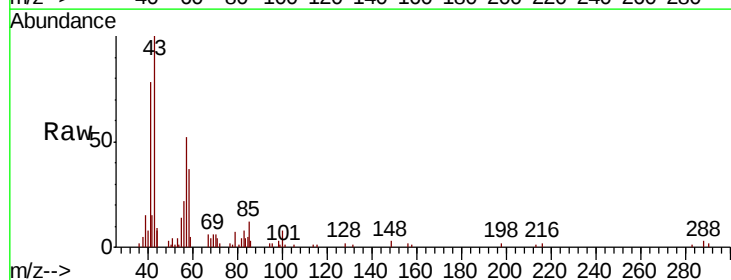
Instrument :
 MSVOA_L
 ClientSampleId :

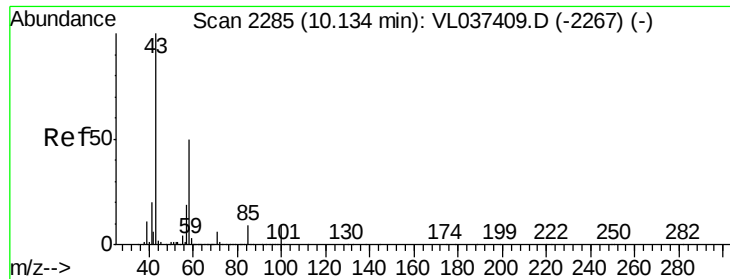
Tot Ion: 57 Resp: 72744
 Ion Ratio Lower Upper
 57 100
 41 106.5 26.4 39.6#
 56 114.6 25.0 37.4#



#50
 4-Methyl-2-Pentanone
 Concen: 0.108 ppbv
 RT: 8.75 min Scan# 1854
 Delta R.T. 0.01 min
 Lab File: VL037430.D
 Acq: 13 Aug 2021 2:00

Tgt Ion: 43 Resp: 22279
 Ion Ratio Lower Upper
 43 100
 58 89.5 29.9 44.9#

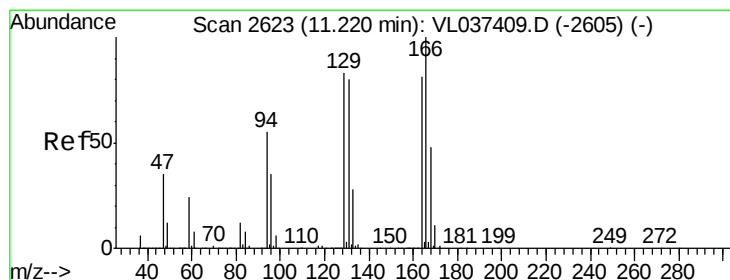
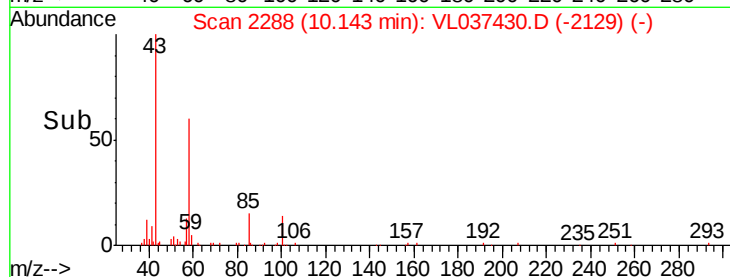
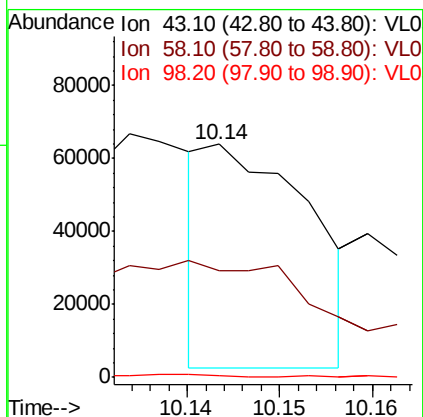
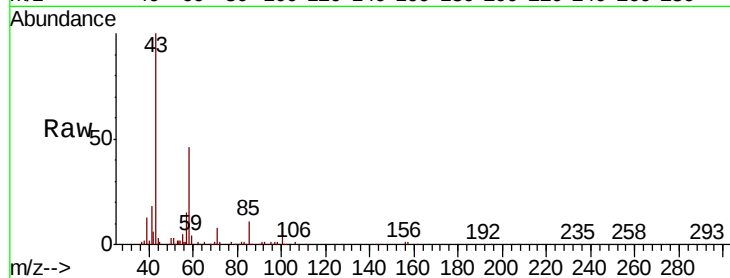




#51
2-Hexanone
Concen: 0.491 ppbv
RT: 10.14 min Scan# 2288
Delta R.T. 0.01 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

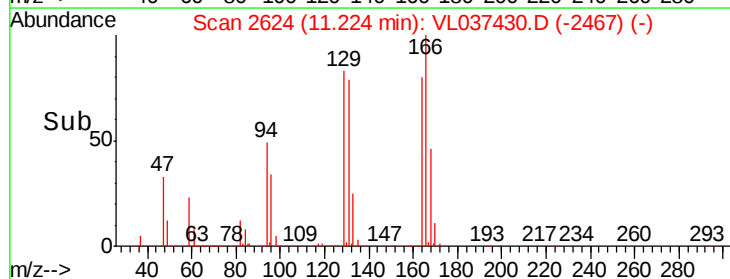
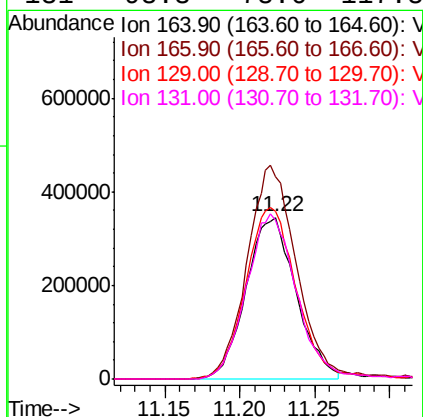
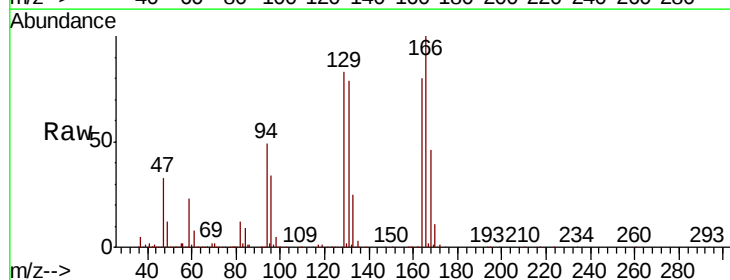
Instrument :
MSVOA_L
ClientSampleId :

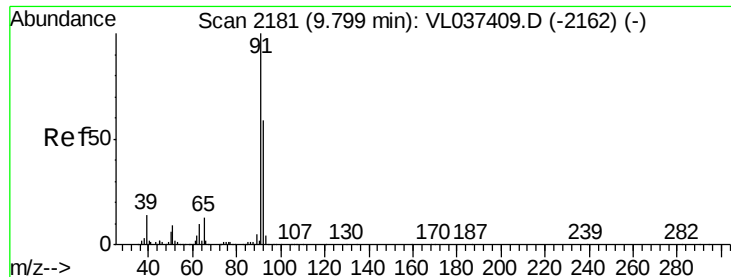
Tot Ion: 43 Resp: 47486
Ion Ratio Lower Upper
43 100
58 167.2 39.9 59.9#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 5.676 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 164 Resp: 798137
Ion Ratio Lower Upper
164 100
166 124.9 98.6 147.8
129 103.6 82.0 123.0
131 98.3 78.6 117.8





#53

Toluene

Concen: 1.712 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

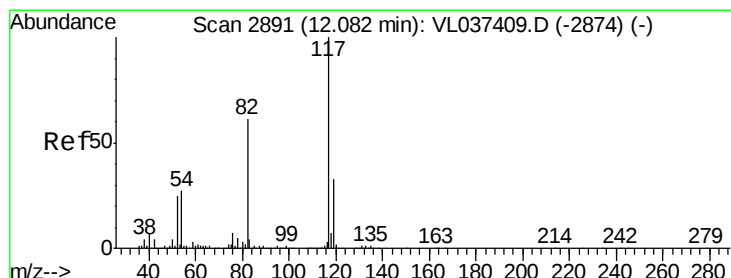
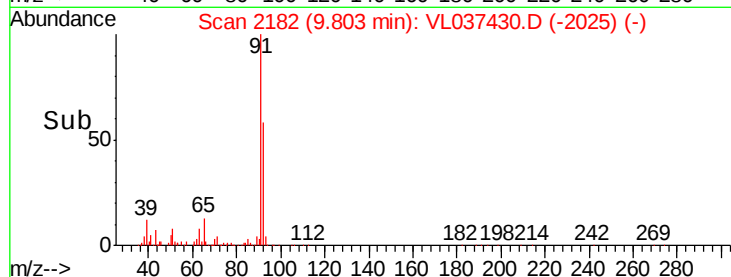
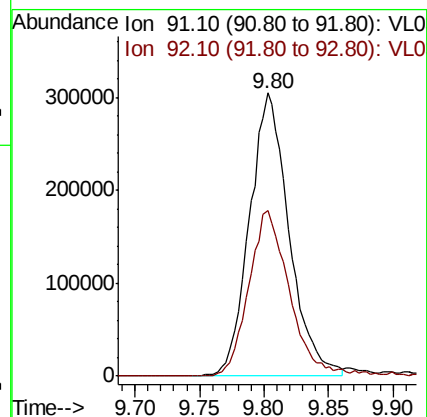
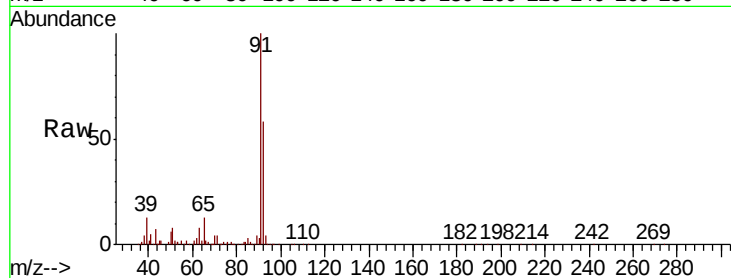
ClientSampled :

Tot Ion: 91 Resp: 652456

Ion Ratio Lower Upper

91 100

92 60.6 49.0 73.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

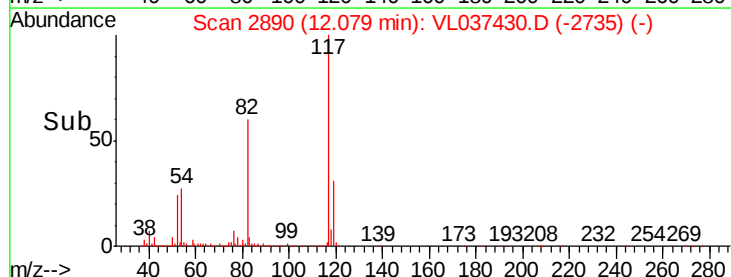
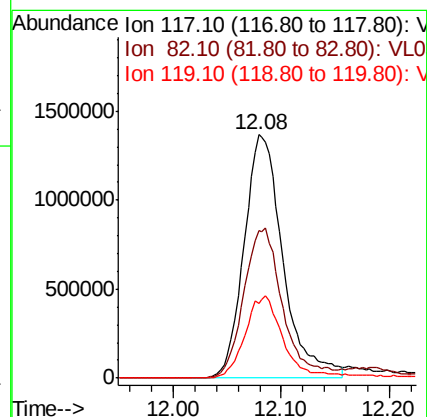
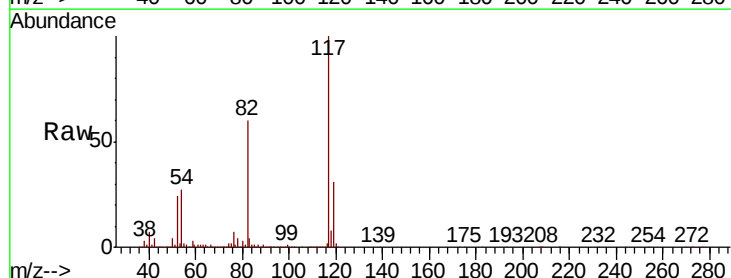
Tgt Ion: 117 Resp: 3431712

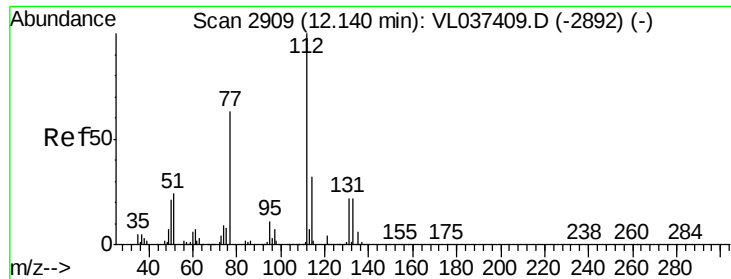
Ion Ratio Lower Upper

117 100

82 61.4 53.1 79.7

119 35.8 28.0 42.0





#57

Chlorobenzene

Concen: 0.141 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

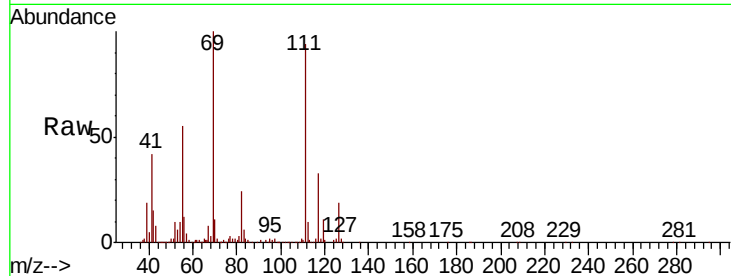
Tot Ion: 112 Resp: 39140

Ion Ratio Lower Upper

112 100

77 0.0 50.0 75.0#

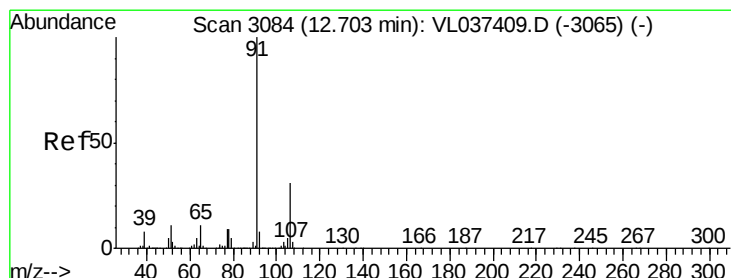
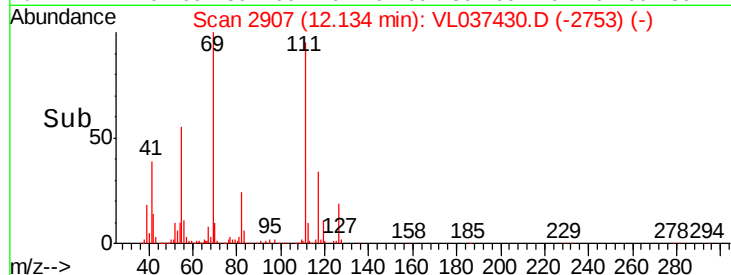
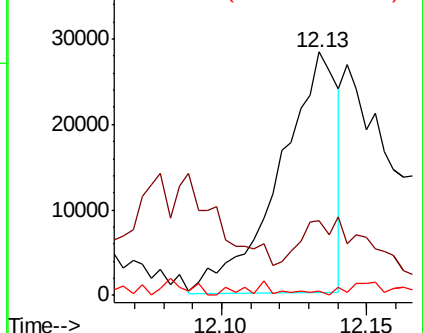
114 0.2 28.5 34.9#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.191 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL037430.D

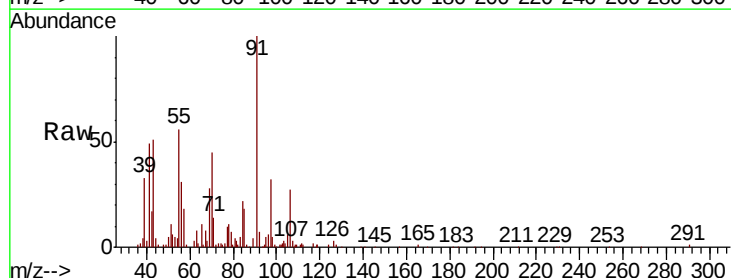
Acq: 13 Aug 2021 2:00

Tgt Ion: 91 Resp: 88918

Ion Ratio Lower Upper

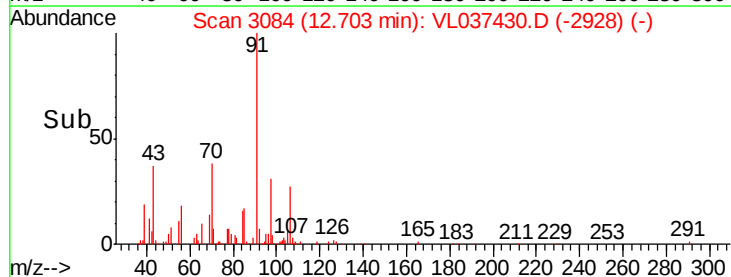
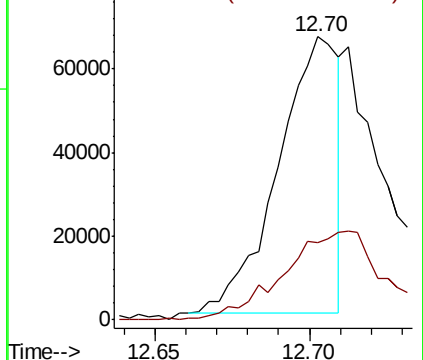
91 100

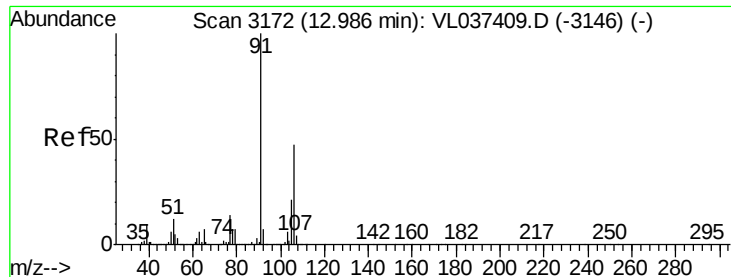
106 27.4 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

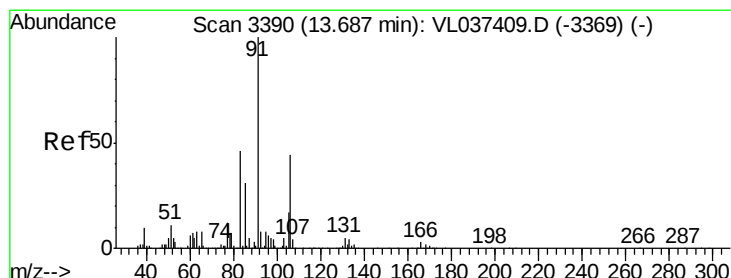
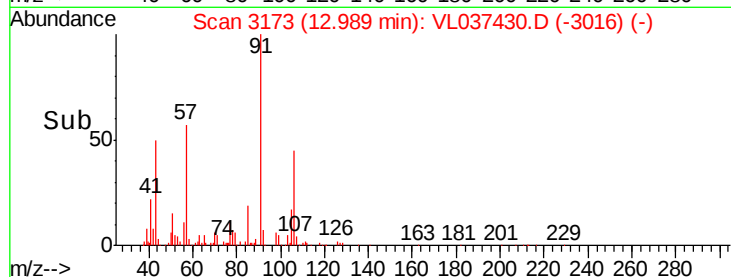
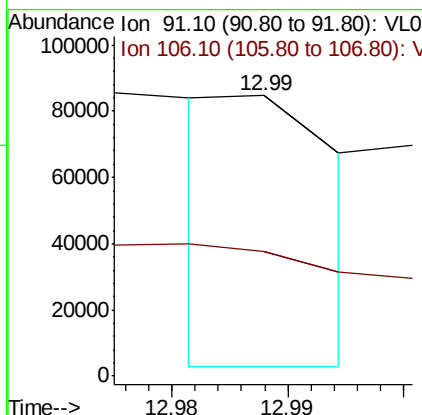
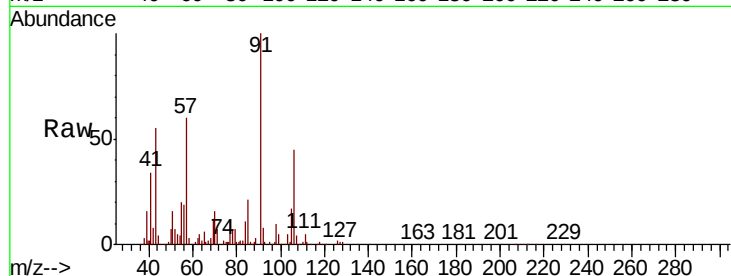




#59
m/p-Xylene
Concen: 0.069 ppbv
RT: 12.99 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

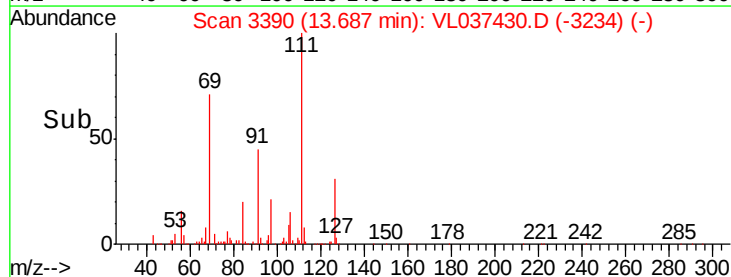
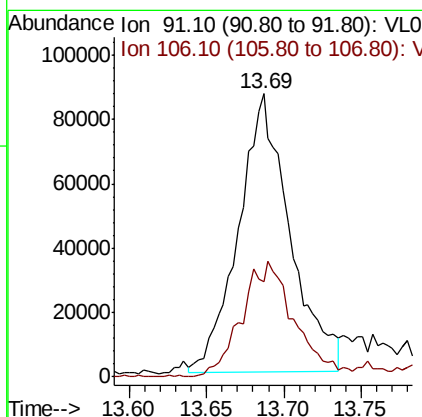
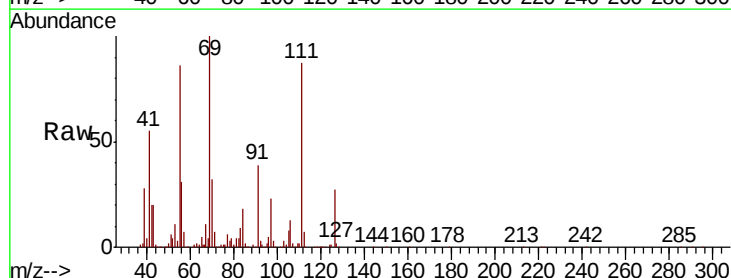
Instrument :
MSVOA_L
ClientSampleId :

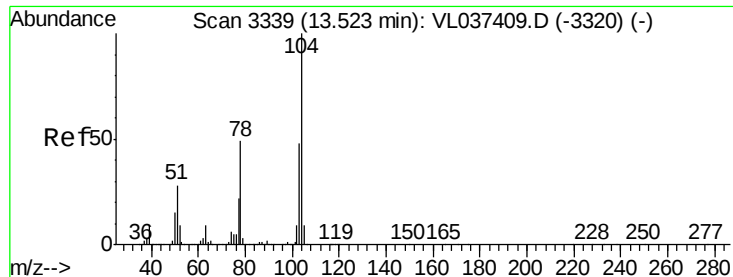
Tot Ion: 91 Resp: 28198
Ion Ratio Lower Upper
91 100
106 0.0 36.6 54.8#



#60
o-Xylene
Concen: 0.528 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 91 Resp: 200690
Ion Ratio Lower Upper
91 100
106 44.8 24.1 72.2





#61

Stvrene

Concen: 0.042 ppbv

RT: 13.52 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

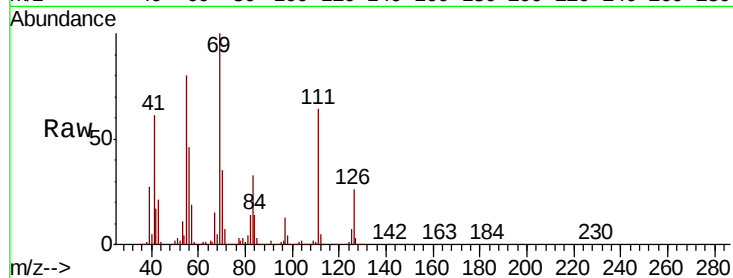
Tot Ion:104 Resp: 8073

Ion Ratio Lower Upper

104 100

78 0.0 41.5 62.3#

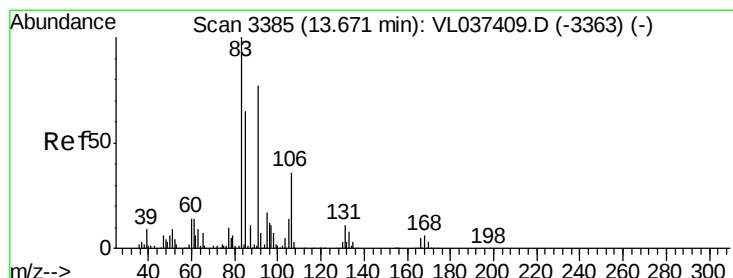
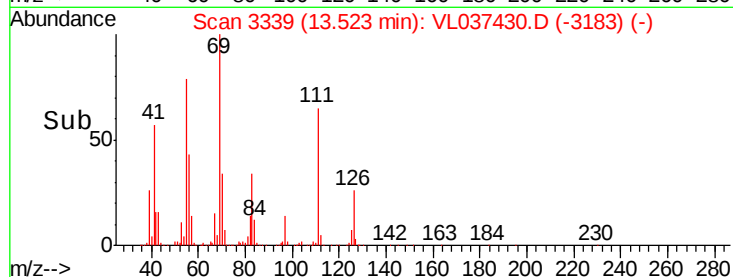
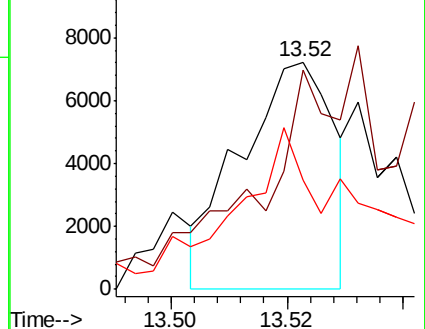
103 124.2 40.2 60.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.449 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

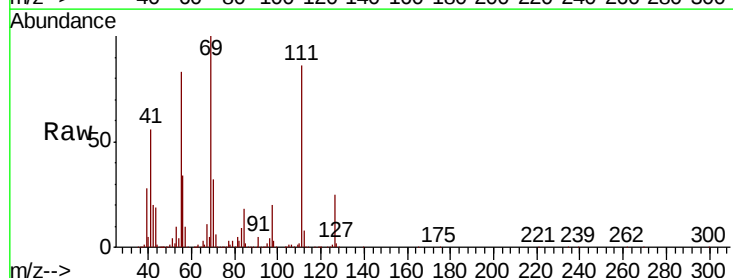
Tgt Ion: 83 Resp: 128779

Ion Ratio Lower Upper

83 100

131 0.1 5.1 15.4#

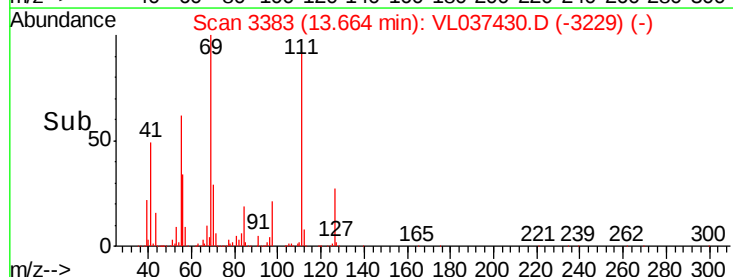
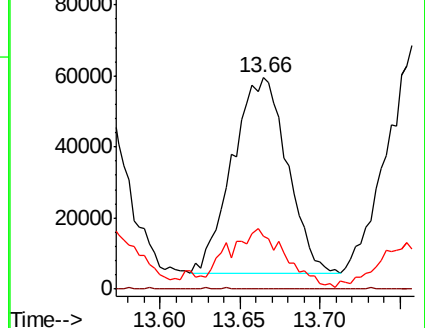
85 34.0 33.4 100.2

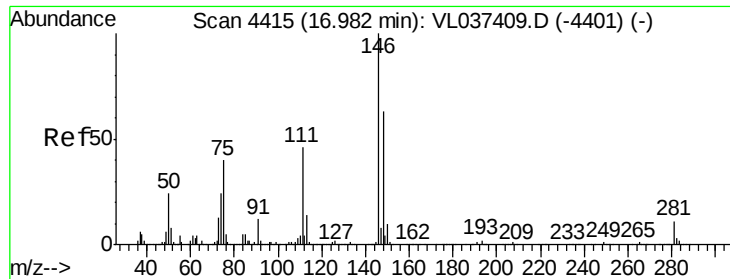


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

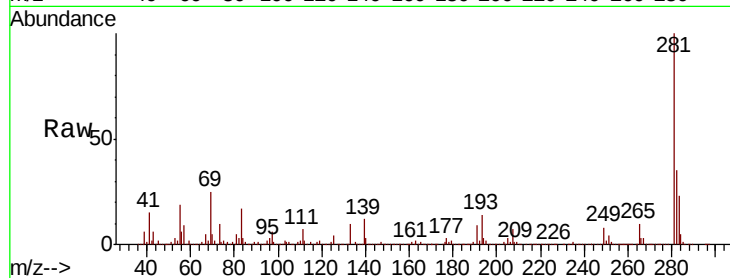




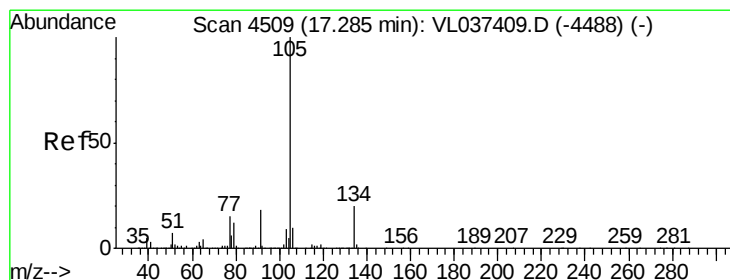
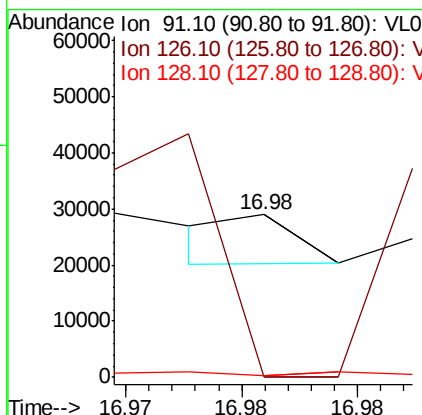
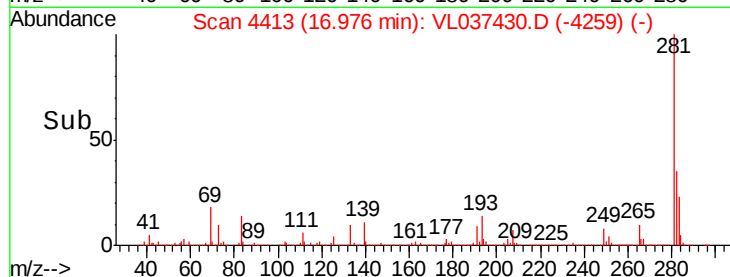
#66
Benzyl Chloride
Concen: 0.077 ppbv
RT: 16.98 min Scan# 4413
Delta R.T. -0.01 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 1717
Ion Ratio Lower Upper
91 100
126 0.0 14.3 21.5#
128 0.0 4.6 7.0#

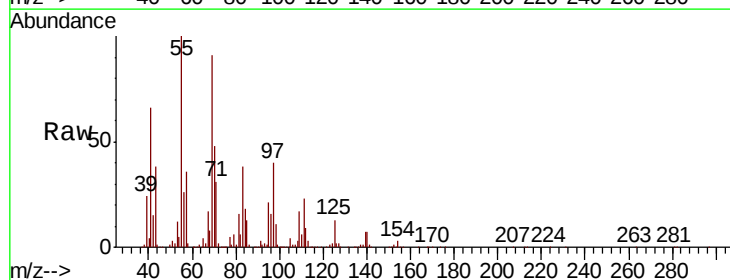


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

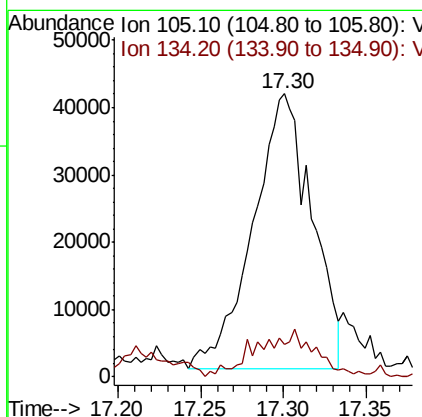
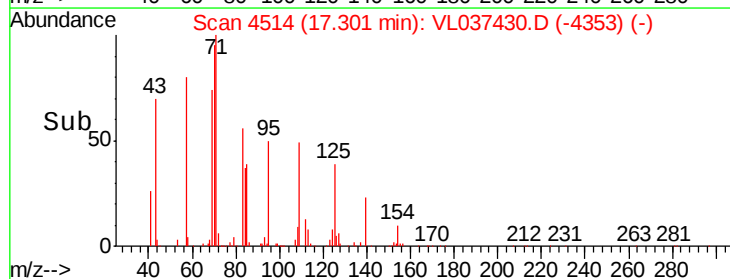


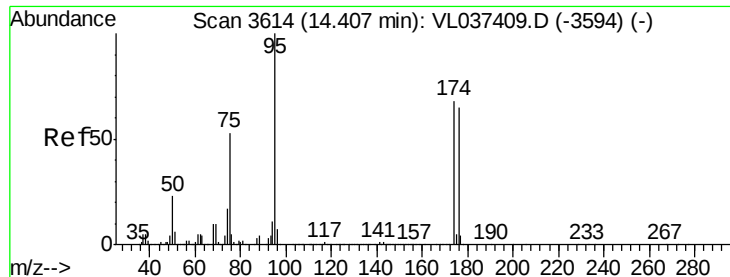
#67
sec-Butylbenzene
Concen: 0.151 ppbv
RT: 17.30 min Scan# 4514
Delta R.T. 0.02 min
Lab File: VL037430.D
Acq: 13 Aug 2021 2:00

Tgt Ion: 105 Resp: 100354
Ion Ratio Lower Upper
105 100
134 17.3 15.4 23.0



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.358 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

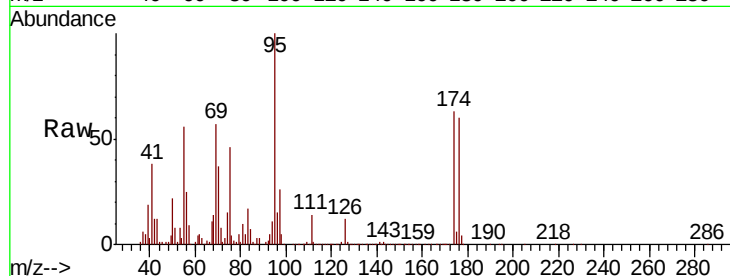
Tot Ion: 95 Resp: 2549820

Ion Ratio Lower Upper

95 100

174 72.2 59.6 89.4

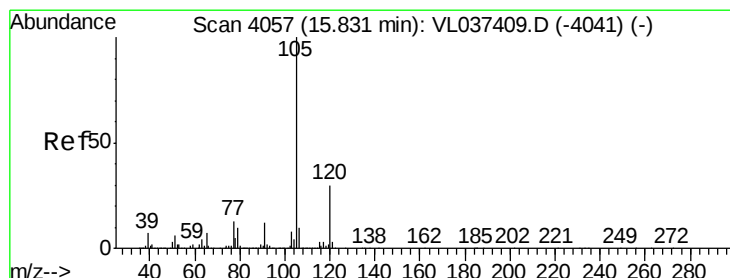
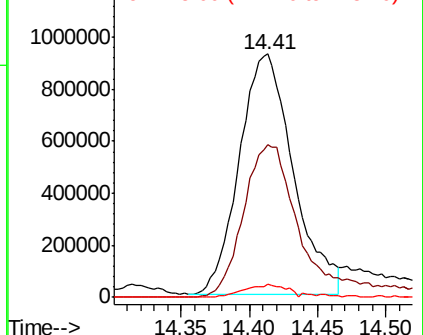
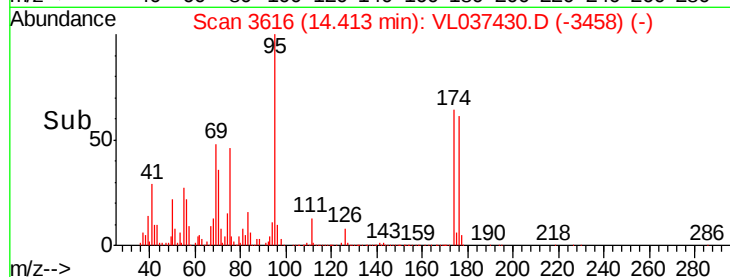
175 5.1 4.3 6.5



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: 0.043 ppbv

RT: 15.83 min Scan# 4056

Delta R.T. -0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Tgt Ion: 105 Resp: 19030

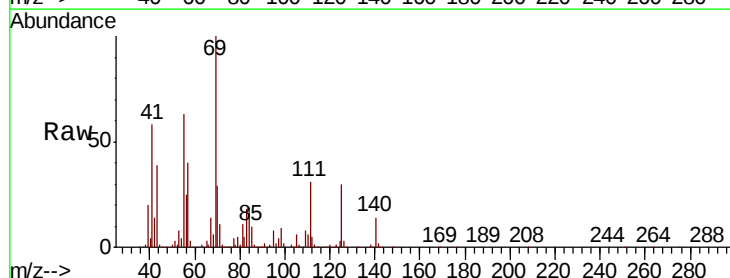
Ion Ratio Lower Upper

105 100

120 0.0 25.0 37.4#

91 0.0 11.2 16.8#

77 0.0 11.2 16.8#

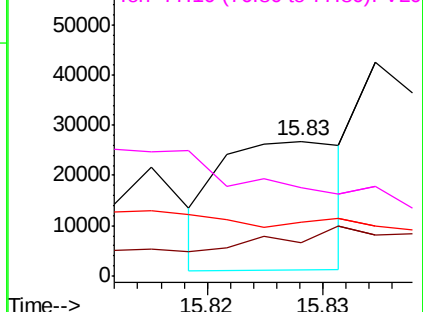
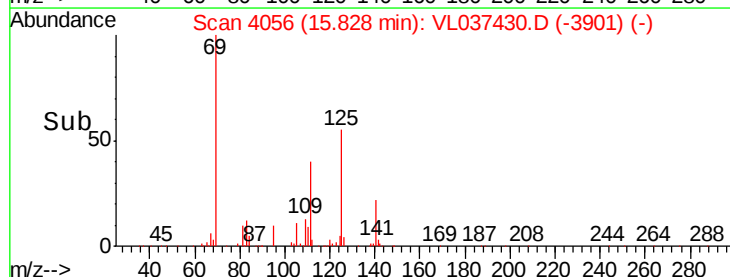


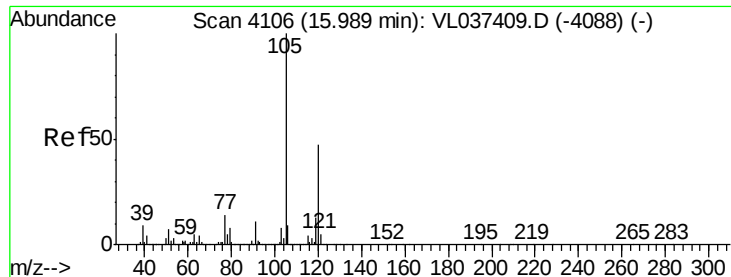
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.438 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. 0.02 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

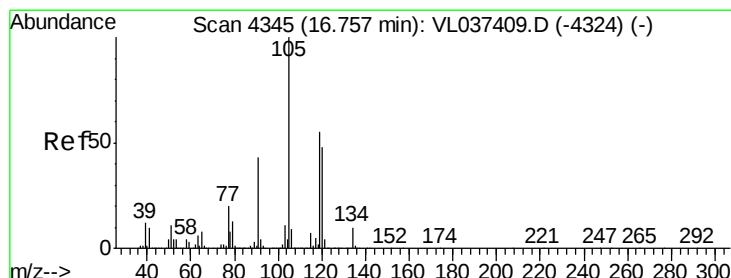
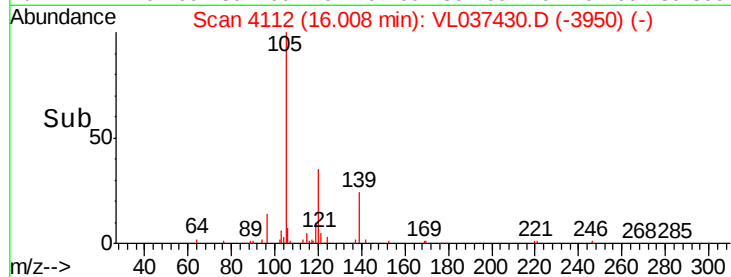
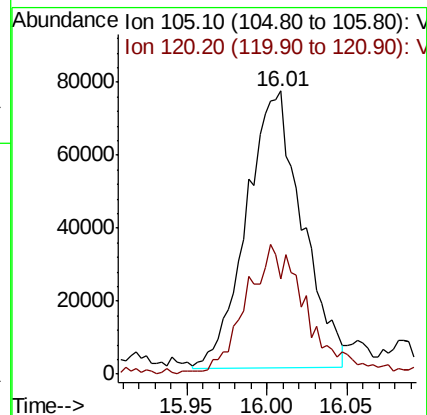
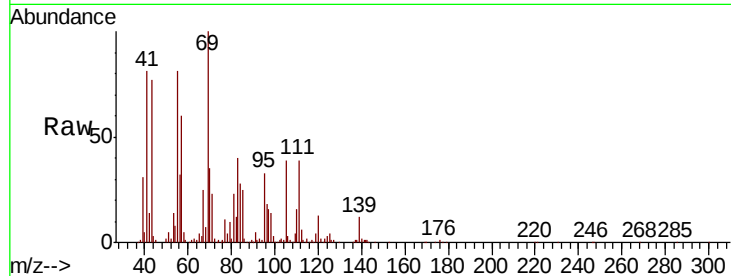
ClientSampleId :

Tot Ion:105 Resp: 182409

Ion Ratio Lower Upper

105 100

120 33.5 37.4 56.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.416 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Tgt Ion:105 Resp: 177398

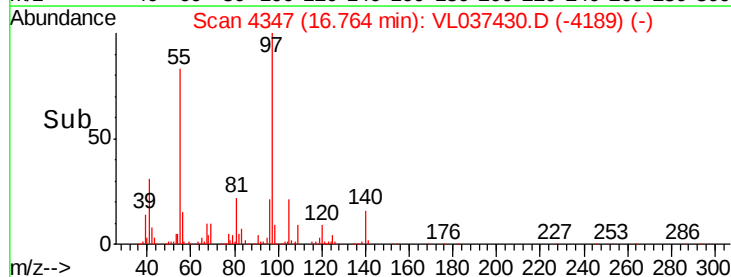
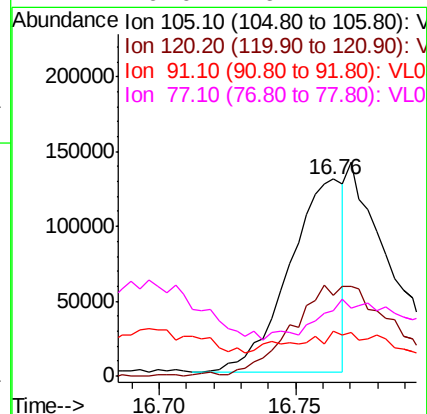
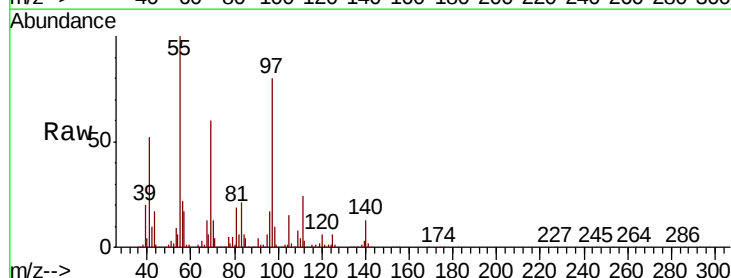
Ion Ratio Lower Upper

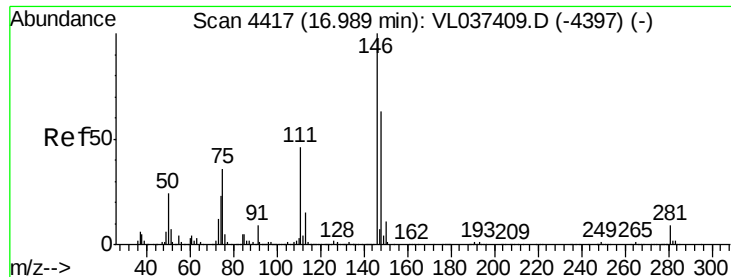
105 100

120 41.4 38.2 57.2

91 3.3 35.4 53.2#

77 0.0 16.2 24.2#





#75

1,3-Dichlorobenzene

Concen: 0.095 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

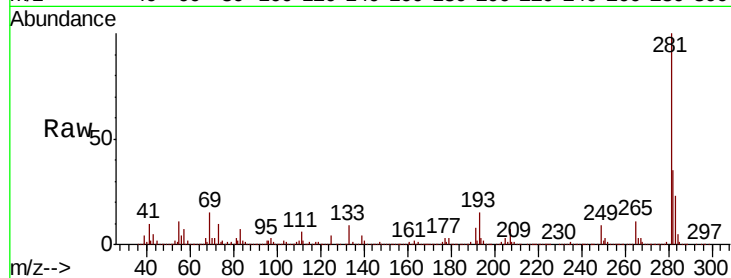
Tot Ion:146 Resp: 24795

Ion Ratio Lower Upper

146 100

111 3780.5 22.9 68.7#

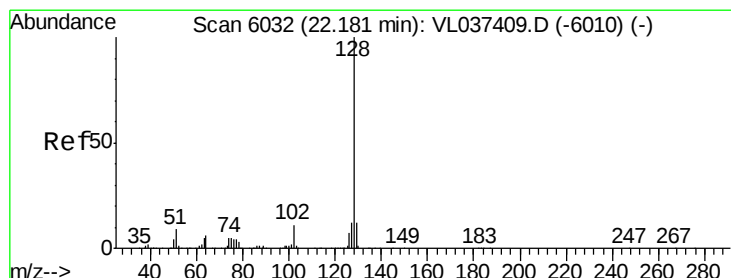
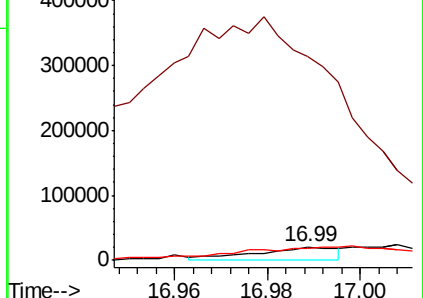
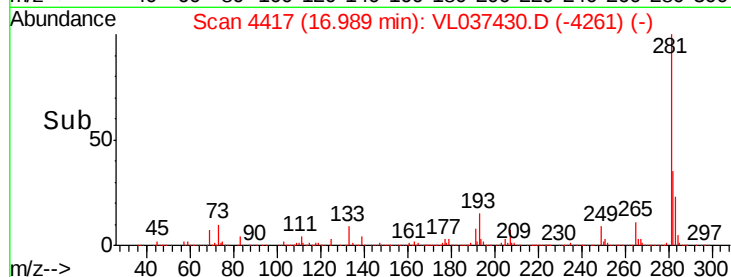
148 0.0 32.0 96.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.138 ppbv

RT: 22.19 min Scan# 6034

Delta R.T. 0.01 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

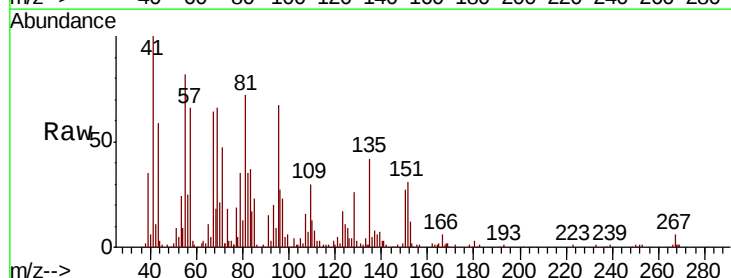
Tgt Ion:128 Resp: 31942

Ion Ratio Lower Upper

128 100

127 10.6 9.9 14.9

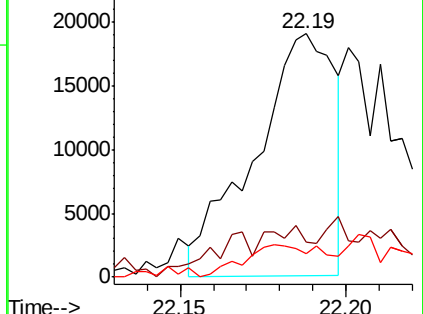
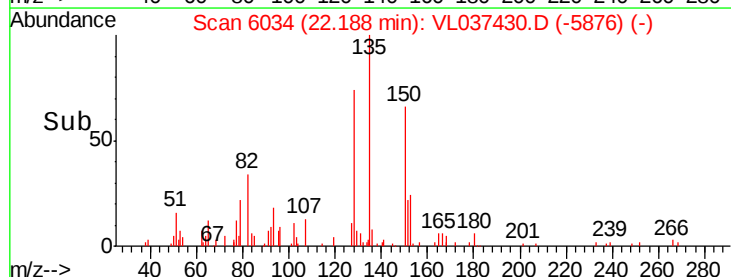
129 6.7 9.4 14.0#

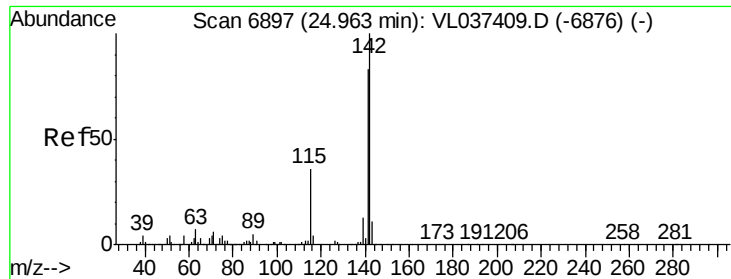


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.041 ppbv

RT: 24.96 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL037430.D

Acq: 13 Aug 2021 2:00

Instrument :

MSVOA_L

ClientSampleId :

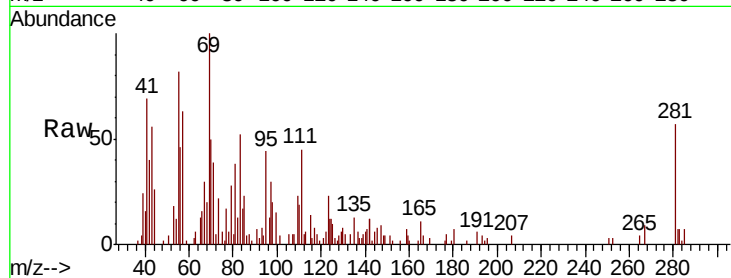
Tot Ion:142 Resp: 1991

Ion Ratio Lower Upper

142 100

141 221.3 68.7 103.1#

115 322.8 32.7 49.1#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

