

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037419.D
 Acq On : 12 Aug 2021 18:46
 Operator : SY/AP
 Sample : M3239-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 03:05:22 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	1298845	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3923310	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3393659	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2530617	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	196316	0.770 ppbv	# 90
4) Chloromethane	3.15	50	28287	0.309 ppbv	92
7) Chloroethane	3.56	64	3547	0.106 ppbv	# 65
9) Propene	3.02	41	97818	1.142 ppbv	88
10) Heptane	8.12	43	488649	2.346 ppbv	95
11) Trichlorofluoromethane	3.95	101	57266	0.267 ppbv	96
13) Ethanol	3.61	45	131581	14.395 ppbv	# 53
15) Acetone	3.85	43	3129590	22.720 ppbv	100
16) 1,3-Butadiene	3.34	39	4331	0.047 ppbv	# 1
17) tert-Butyl alcohol	4.31	59	73697	0.561 ppbv	# 88
19) Isopropyl Alcohol	3.98	45	38756	0.483 ppbv	# 92
20) Methylene Chloride	4.35	84	4157219	57.077 ppbv	97
21) Allyl Chloride	4.35	41	175496	1.626 ppbv	# 22
23) Vinyl Acetate	5.07	43	134435	0.636 ppbv	# 65
25) Ethyl Acetate	5.69	43	2568546	7.824 ppbv	# 77
26) Hexane	5.69	57	3583080	21.150 ppbv	# 46
27) Carbon Disulfide	4.55	76	36715	0.257 ppbv	# 77
29) Chloroform	5.75	83	330550	1.386 ppbv	99
30) Cyclohexane	7.14	84	15914	0.114 ppbv	# 1
32) 1,1,1-Trichloroethane	6.52	97	95899	0.398 ppbv	97
34) 2-Butanone	5.25	43	684821	4.228 ppbv	# 87
35) Carbon Tetrachloride	7.03	117	12044	0.050 ppbv	# 71
36) Benzene	6.90	78	89978	0.272 ppbv	# 90
39) 1,2-Dichloropropane	7.18	63	912687	7.242 ppbv	# 27
41) Tetrahydrofuran	6.32	42	17156	0.231 ppbv	# 37
44) 2,2,4-Trimethylpentane	7.87	57	132662	0.240 ppbv	# 1
50) 4-Methyl-2-Pentanone	8.74	43	19113	0.094 ppbv	# 1
51) 2-Hexanone	10.14	43	655354	6.836 ppbv	# 90
52) Tetrachloroethene	11.23	164	41077	0.295 ppbv	90
53) Toluene	9.81	91	2481599	6.570 ppbv	99
57) Chlorobenzene	12.15	112	71520	0.260 ppbv	# 30
58) Ethyl Benzene	12.71	91	277965	0.604 ppbv	94
59) m/p-Xylene	12.97	91	684893	1.694 ppbv	90
60) o-Xylene	13.70	91	396842	1.056 ppbv	100
61) Styrene	13.53	104	108001	0.569 ppbv	# 9
62) Isopropylbenzene	14.66	105	107084	0.199 ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.67	83	36292	0.128 ppbv	# 24
64) n-propylbenzene	15.57	120	42104	0.311 ppbv	# 1
65) tert-Butylbenzene	16.76	119	123265	0.254 ppbv	# 1
66) Benzyl Chloride	16.96	91	2519	0.114 ppbv	# 54
67) sec-Butylbenzene	17.30	105	250337	0.380 ppbv	100

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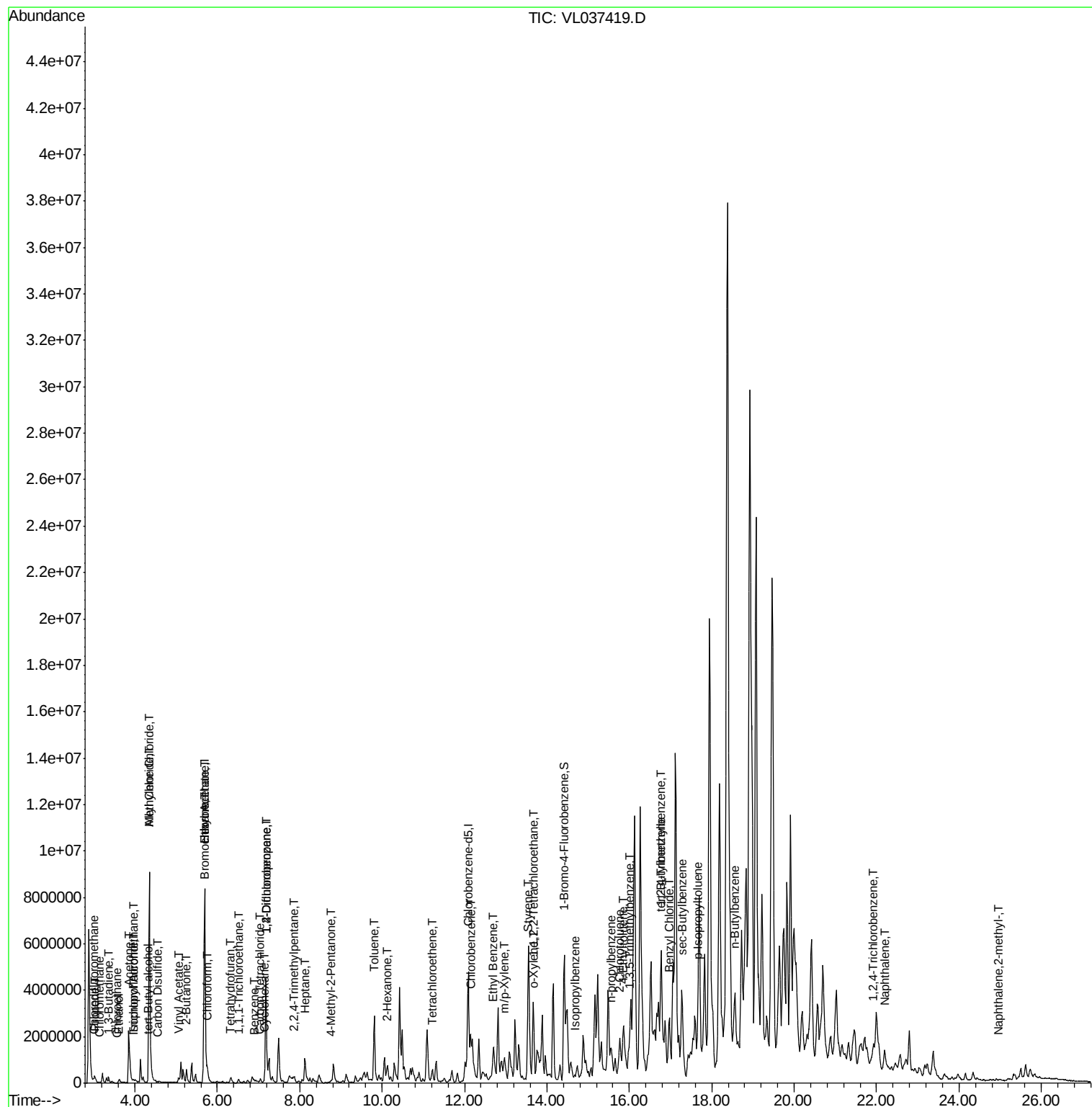
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.65	119	218983	0.405	ppbv #	91
70) n-Butylbenzene	18.56	91	250699	0.498	ppbv #	59
71) 2-Chlorotoluene	15.77	91	57560	0.151	ppbv	94
72) 4-Ethyltoluene	15.84	105	484163	1.110	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.00	105	305551	0.741	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	2155061	5.106	ppbv #	74
79) Naphthalene	22.19	128	77104	0.336	ppbv #	95
80) Naphthalene,2-methyl-	24.96	142	28254	0.583	ppbv	95
81) 1,2,4-Trichlorobenzene	21.91	180	5048	0.032	ppbv #	1

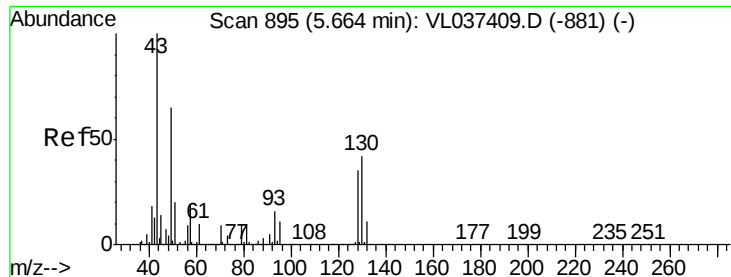
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

ClientSampleId :

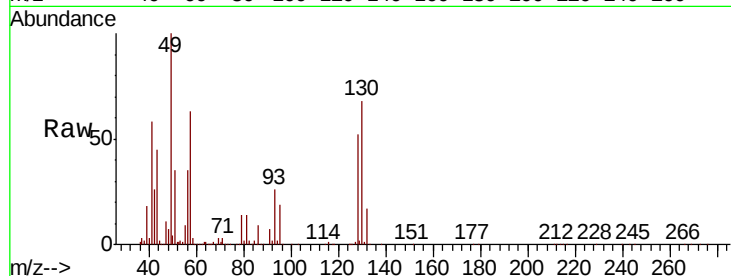
Tot Ion: 49 Resp: 1298845

Ion Ratio Lower Upper

49 100

128 53.5 27.9 83.6

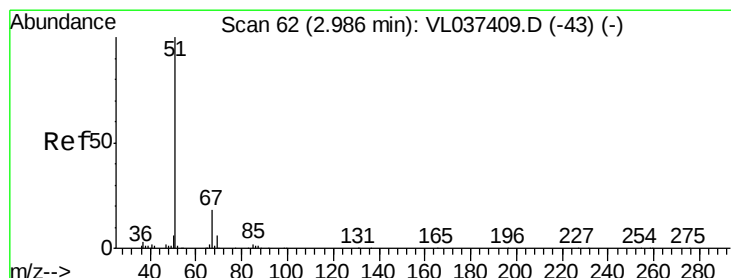
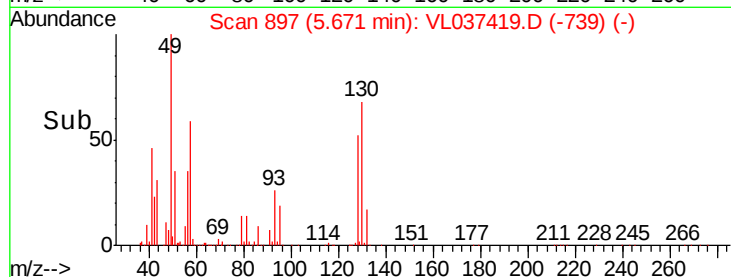
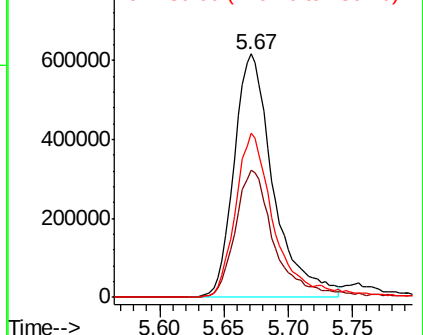
130 68.8 34.6 103.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.770 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037419.D

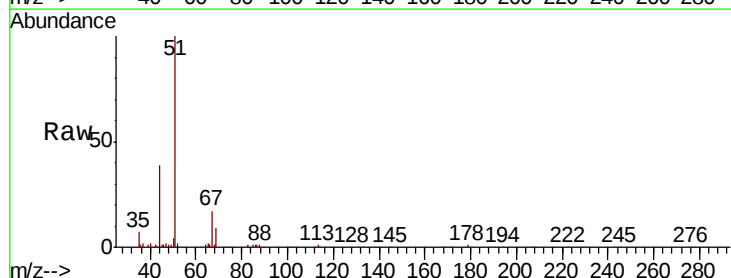
Acq: 12 Aug 2021 18:46

Tgt Ion: 51 Resp: 196316

Ion Ratio Lower Upper

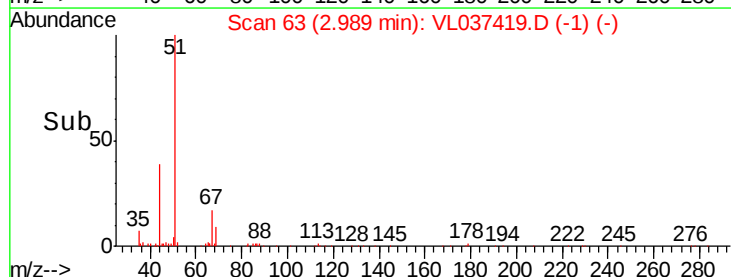
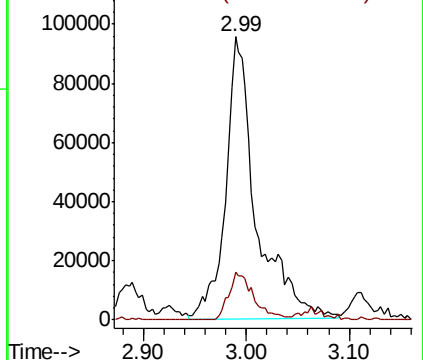
51 100

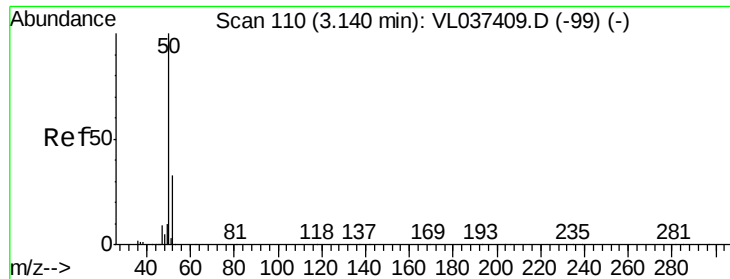
67 14.0 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

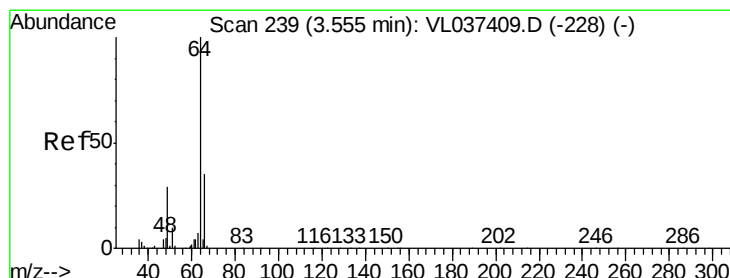
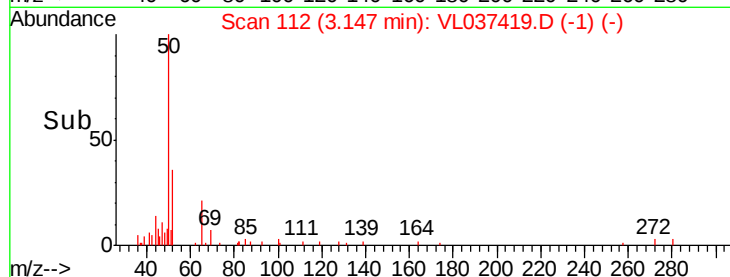
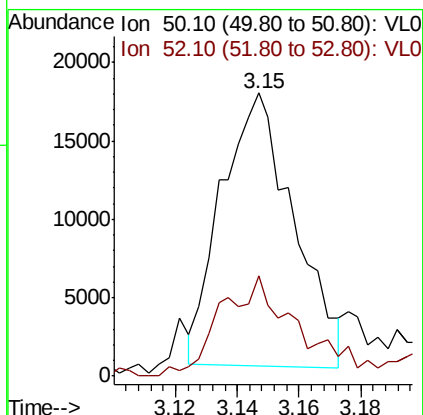
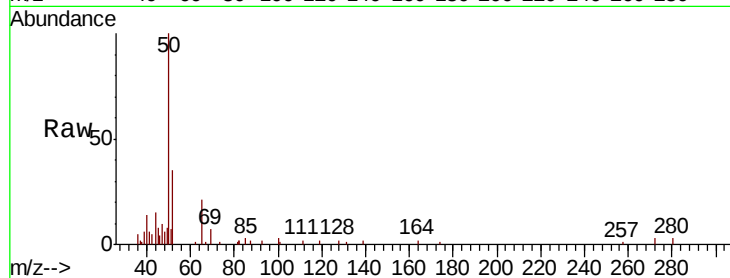




#4
Chloromethane
Concen: 0.309 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

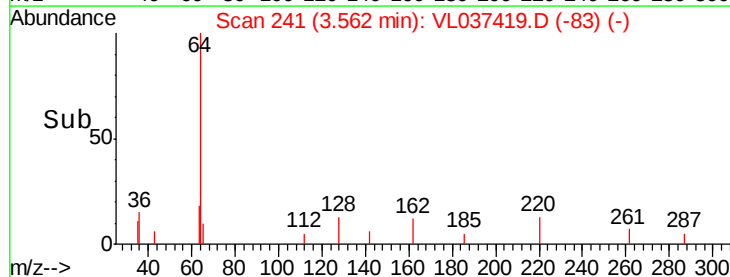
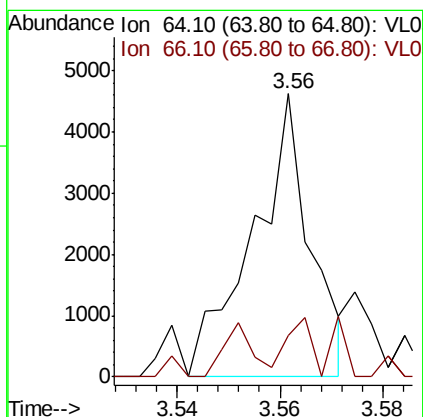
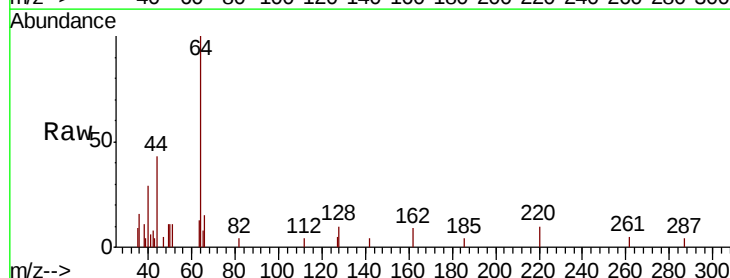
Instrument :
MSVOA_L
ClientSampleId :

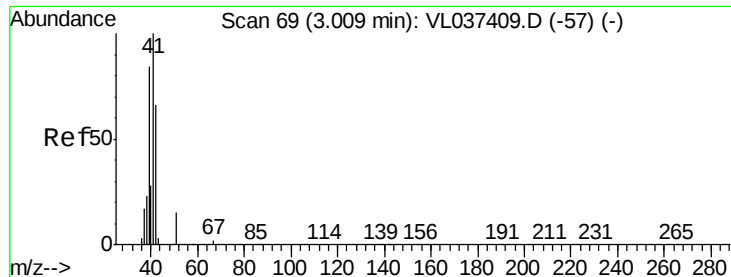
Tot Ion: 50 Resp: 28287
Ion Ratio Lower Upper
50 100
52 37.6 26.2 39.4



#7
Chloroethane
Concen: 0.106 ppbv
RT: 3.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 64 Resp: 3547
Ion Ratio Lower Upper
64 100
66 14.7 27.8 41.8#





#9

Propene

Concen: 1.142 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

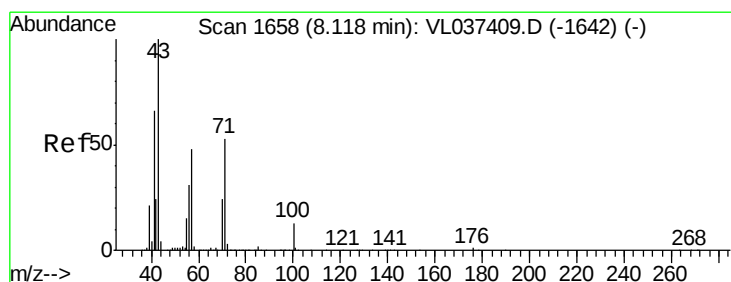
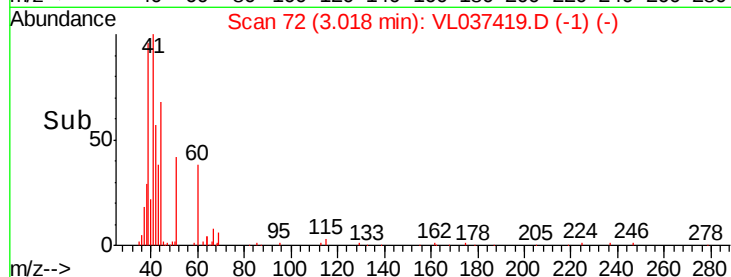
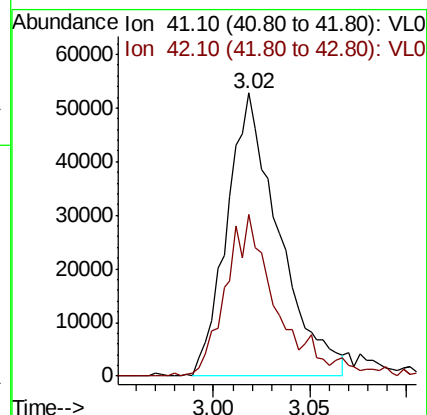
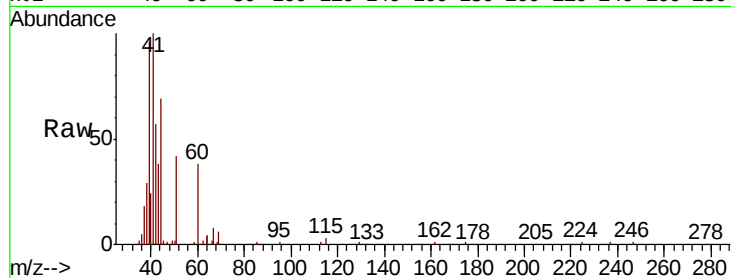
ClientSampleId :

Tot Ion: 41 Resp: 97818

Ion Ratio Lower Upper

41 100

42 58.0 53.8 80.8



#10

Heptane

Concen: 2.346 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL037419.D

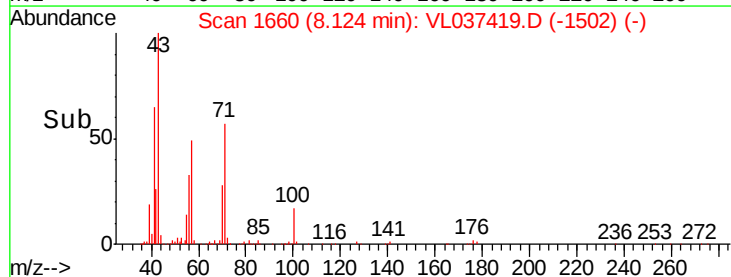
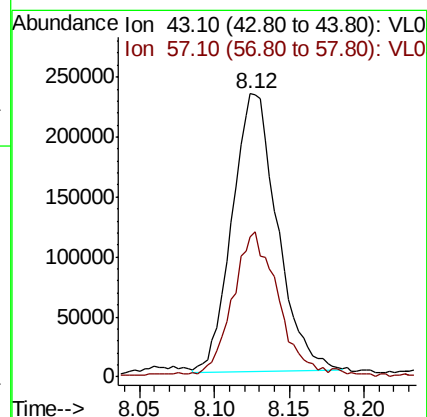
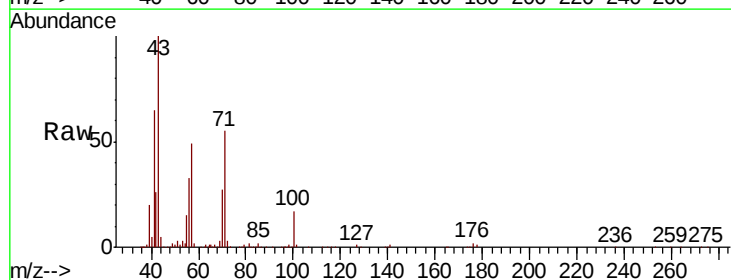
Acq: 12 Aug 2021 18:46

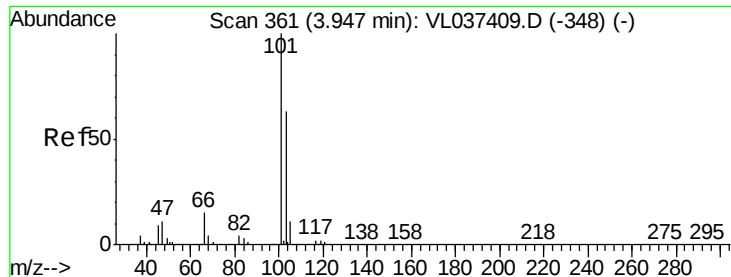
Tgt Ion: 43 Resp: 488649

Ion Ratio Lower Upper

43 100

57 53.8 40.3 60.5

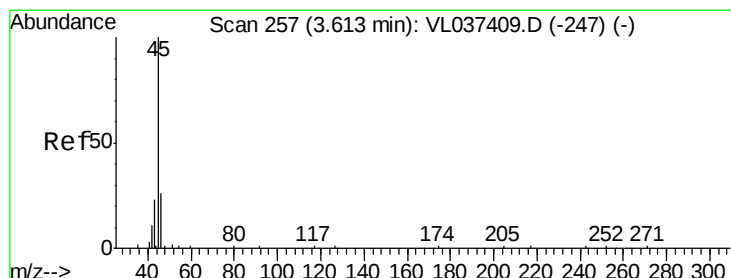
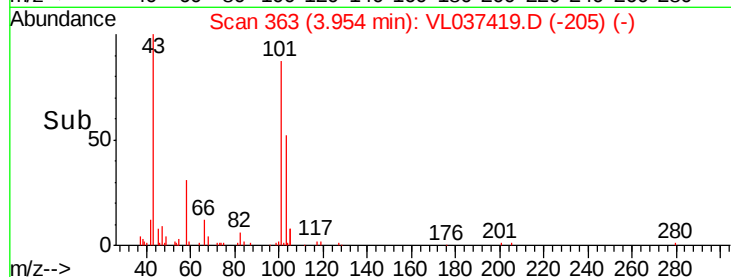
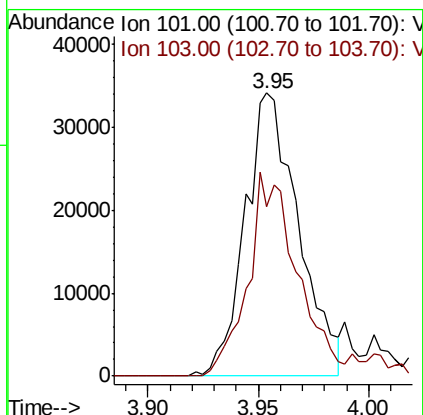
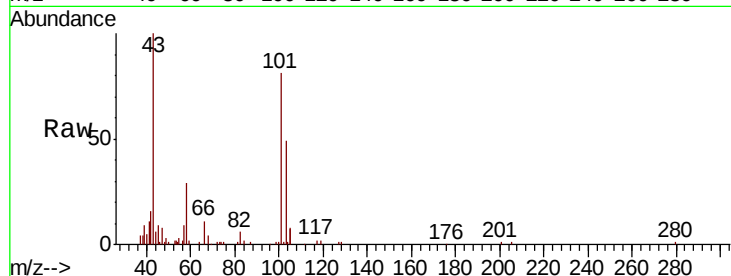




#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VL037419.D
 Acq: 12 Aug 2021 18:46

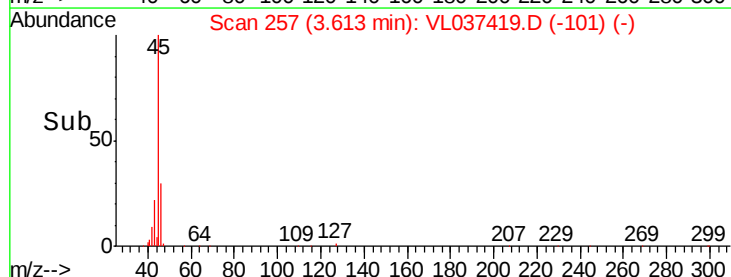
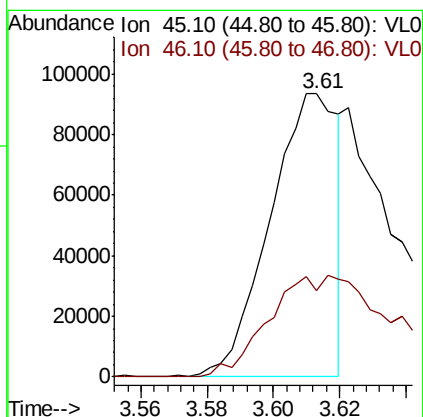
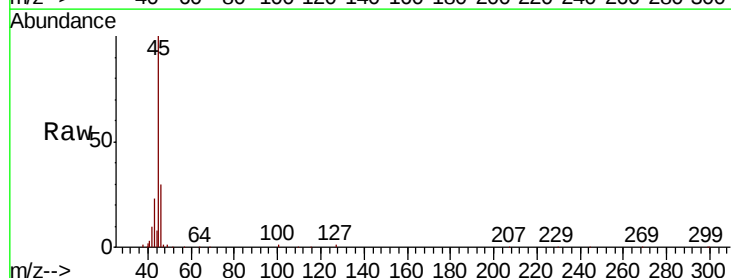
Instrument :
 MSVOA_L
 ClientSampleId :

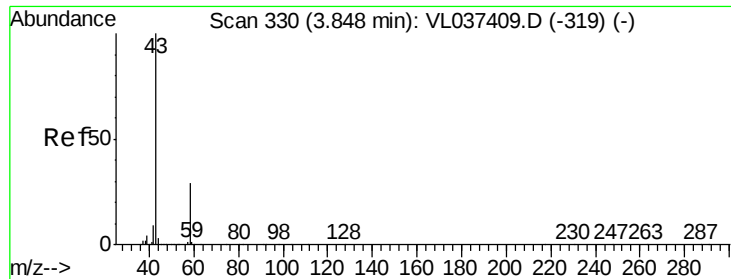
Tot Ion:101 Resp: 57266
 Ion Ratio Lower Upper
 101 100
 103 59.8 50.2 75.4



#13
 Ethanol
 Concen: 14.395 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.00 min
 Lab File: VL037419.D
 Acq: 12 Aug 2021 18:46

Tgt Ion: 45 Resp: 131581
 Ion Ratio Lower Upper
 45 100
 46 75.6 18.0 72.2#

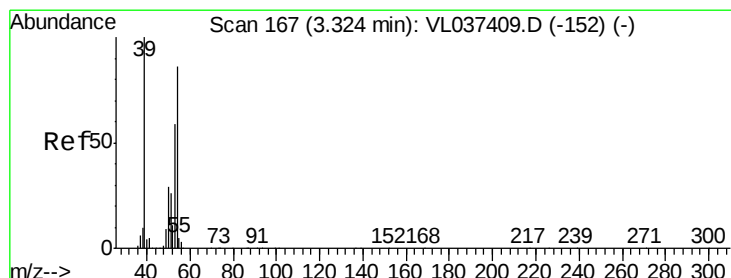
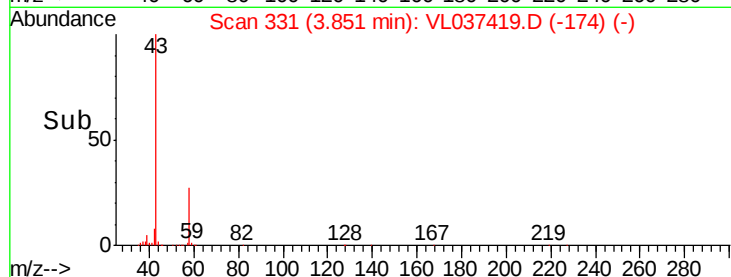
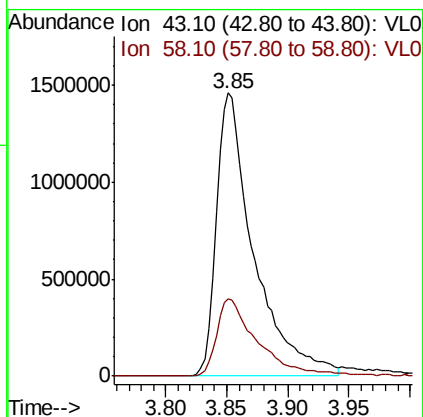
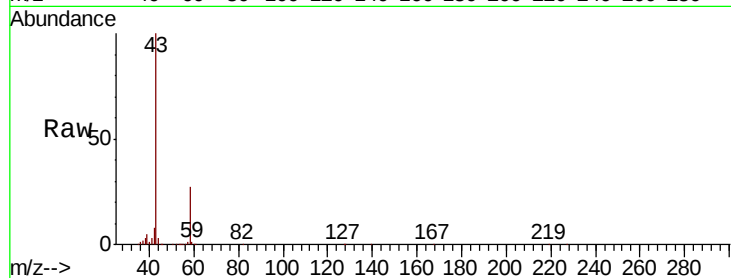




#15
Acetone
Concen: 22.720 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

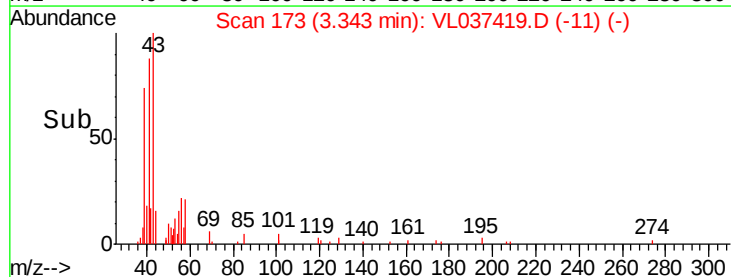
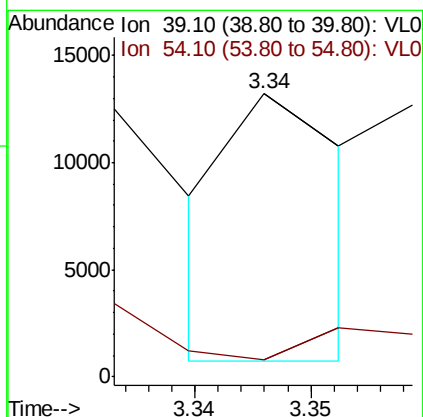
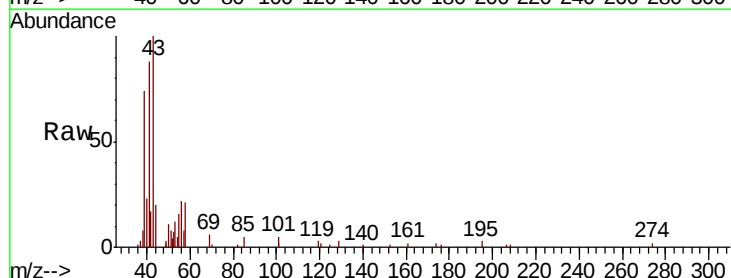
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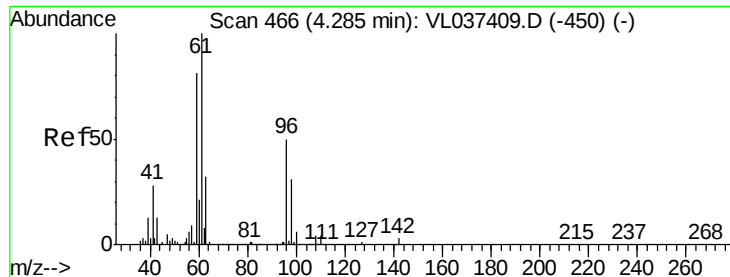
Tot Ion: 43 Resp: 3129590
Ion Ratio Lower Upper
43 100
58 30.7 24.4 36.6



#16
1,3-Butadiene
Concen: 0.047 ppbv
RT: 3.34 min Scan# 173
Delta R.T. 0.02 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 39 Resp: 4331
Ion Ratio Lower Upper
39 100
54 188.8 61.4 92.0#



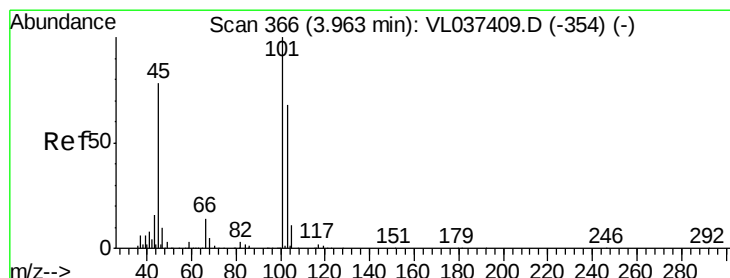
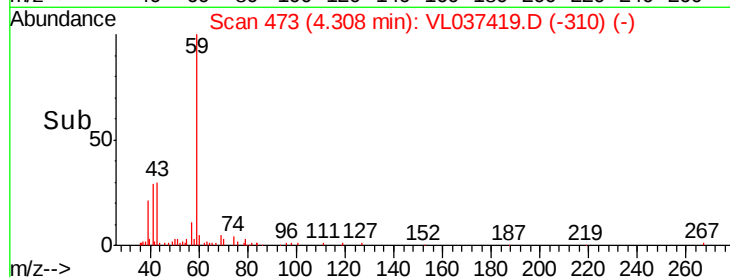
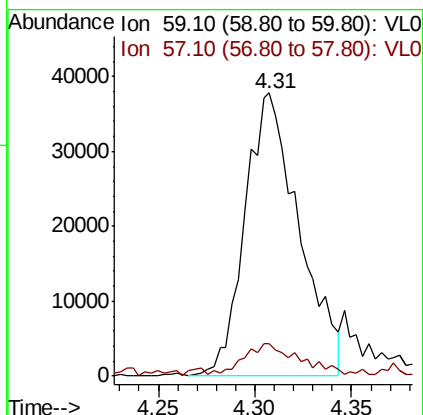
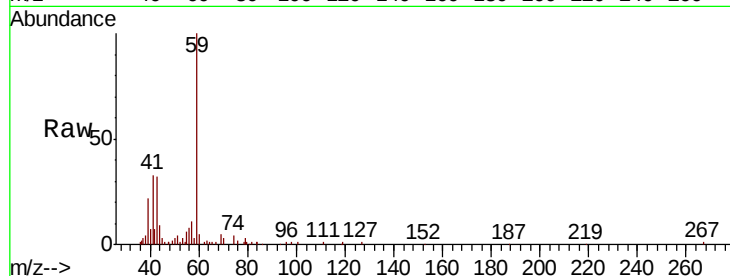


#17

tert-Butyl alcohol
Concen: 0.561 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.02 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

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MSVOA_L
ClientSampleId :

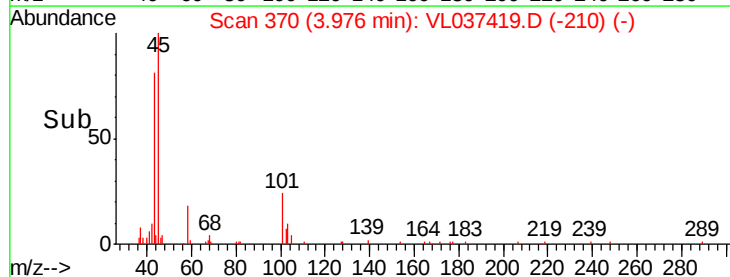
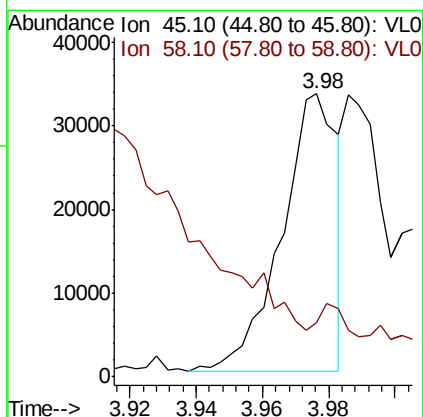
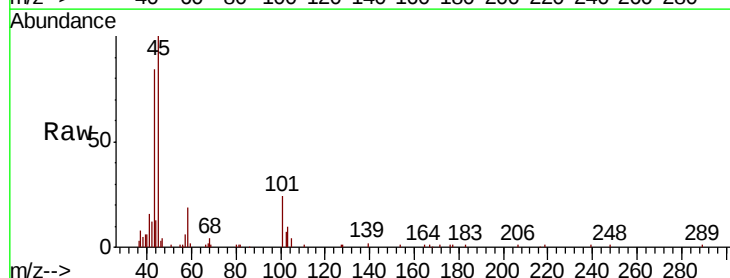
Tot Ion: 59 Resp: 73697
Ion Ratio Lower Upper
59 100
57 15.0 8.5 12.7#

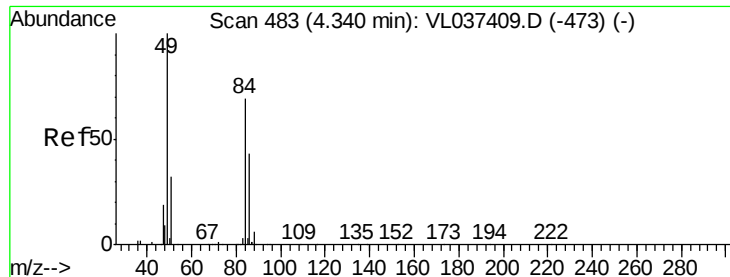


#19

Isopropyl Alcohol
Concen: 0.483 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 45 Resp: 38756
Ion Ratio Lower Upper
45 100
58 0.0 2.2 3.4#

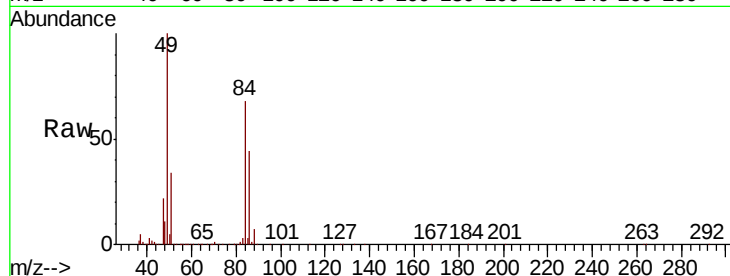




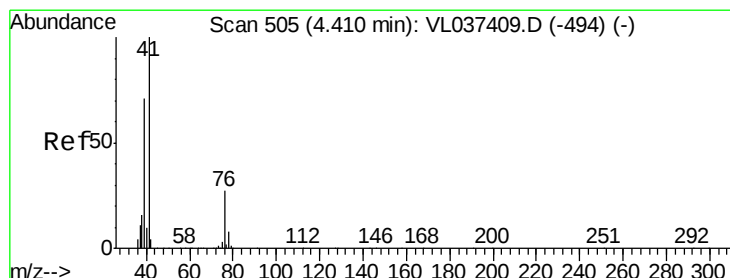
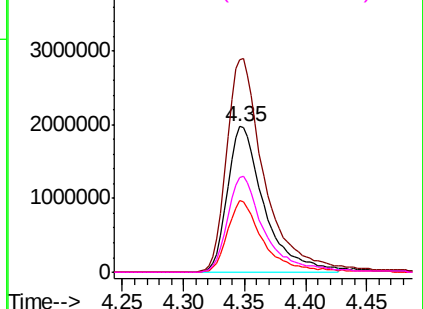
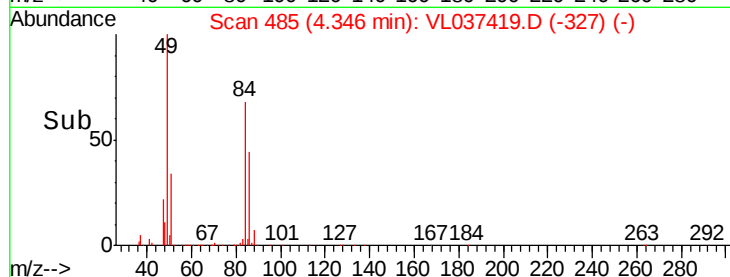
#20
Methylene Chloride
Concen: 57.077 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 84 Resp: 4157219
Ion Ratio Lower Upper
84 100
49 146.5 116.0 174.0
51 49.0 37.1 55.7
86 65.1 49.4 74.0

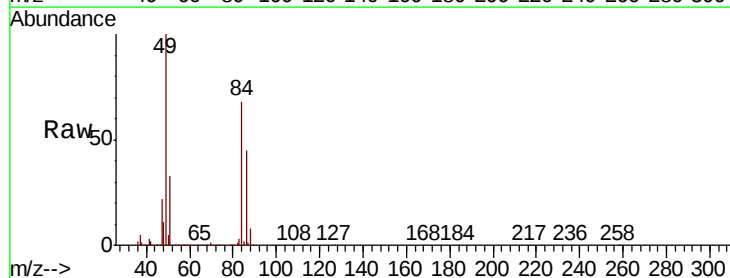


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

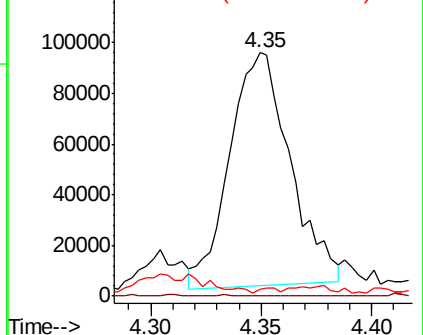
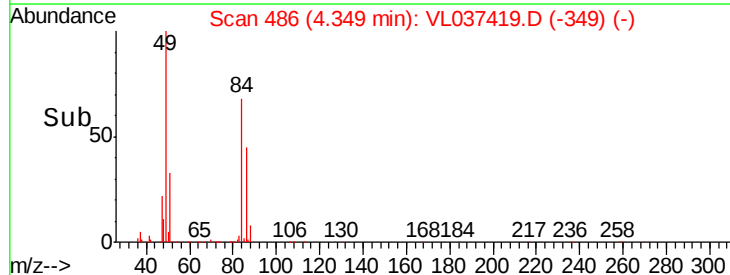


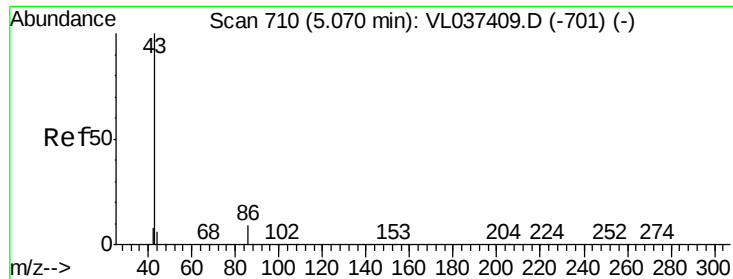
#21
Allyl Chloride
Concen: 1.626 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.06 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 41 Resp: 175496
Ion Ratio Lower Upper
41 100
76 0.0 23.7 35.5#
39 2.1 62.3 93.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.636 ppbv

RT: 5.07 min Scan# 709

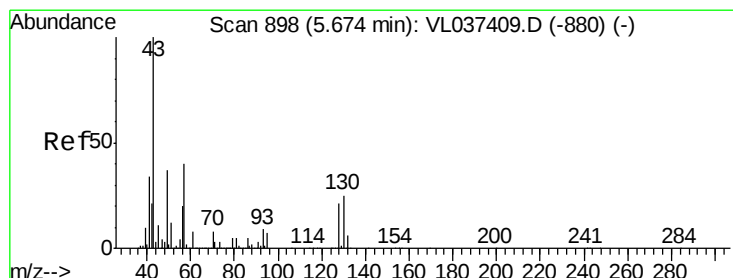
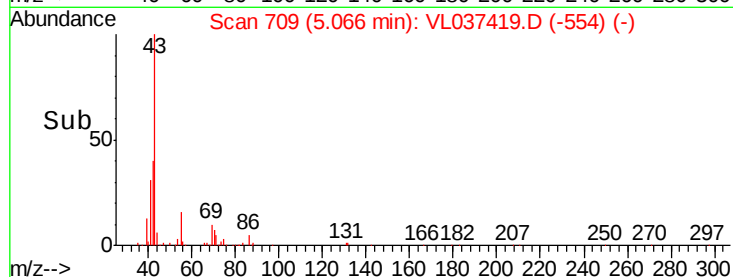
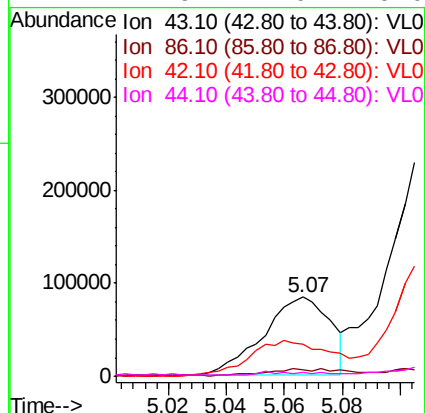
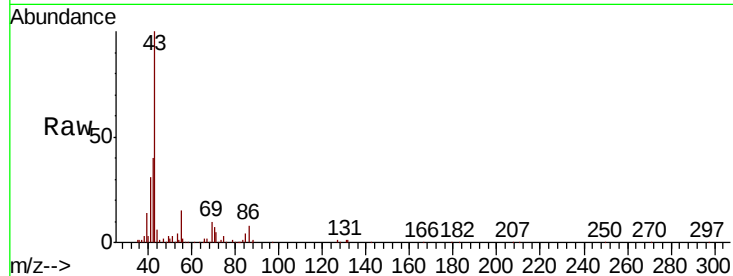
Delta R.T. -0.00 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	134435
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.8	8.8
42	38.6	7.7	11.5#
44	4.6	4.0	6.0



#25

Ethyl Acetate

Concen: 7.824 ppbv

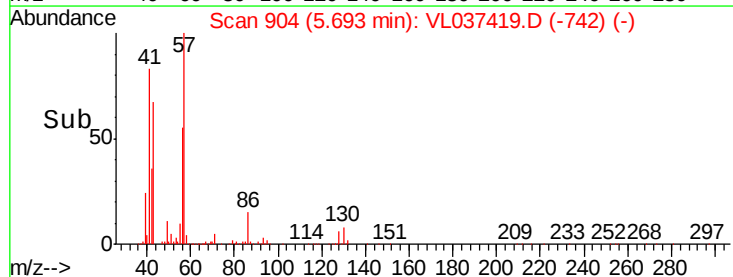
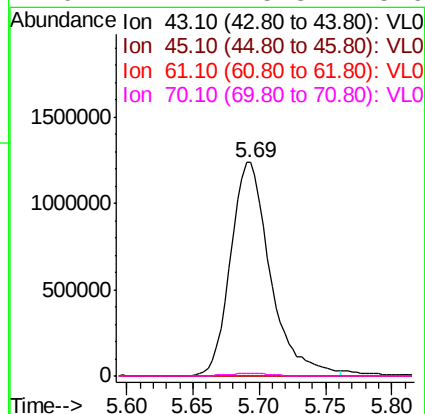
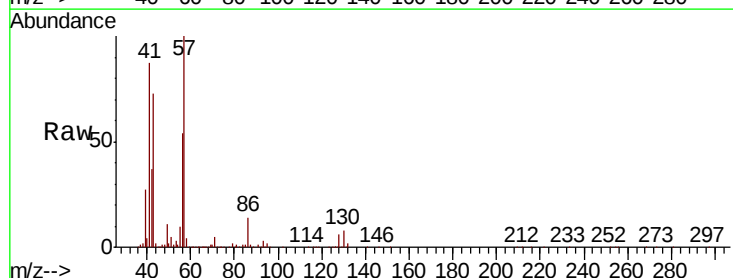
RT: 5.69 min Scan# 904

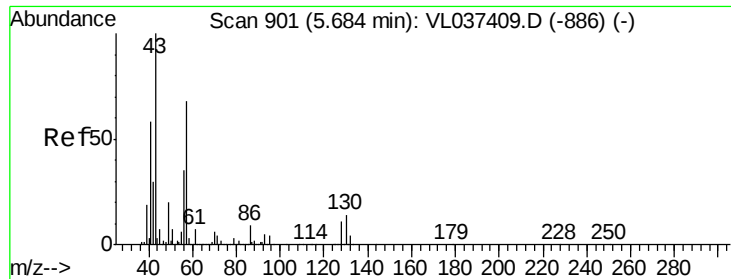
Delta R.T. 0.02 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Tgt Ion:	43	Resp:	2568546
Ion	Ratio	Lower	Upper
43	100		
45	0.3	7.9	11.9#
61	0.3	7.7	11.5#
70	1.4	5.8	8.6#





#26

Hexane

Concen: 21.150 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

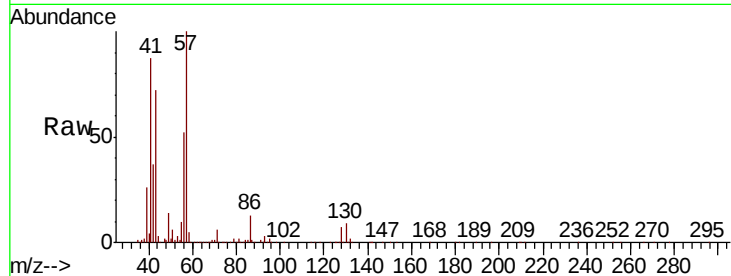
Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

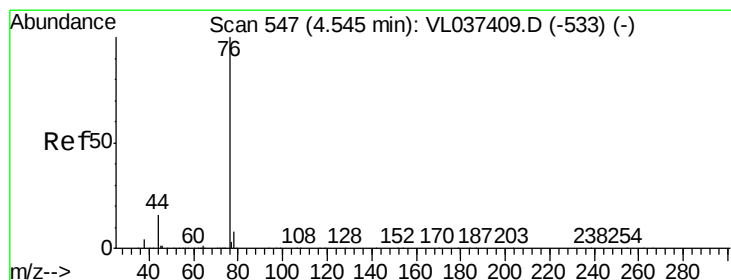
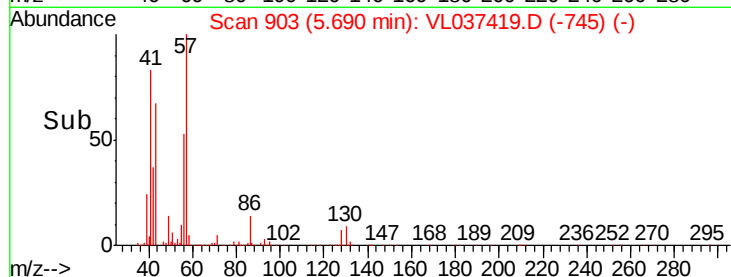
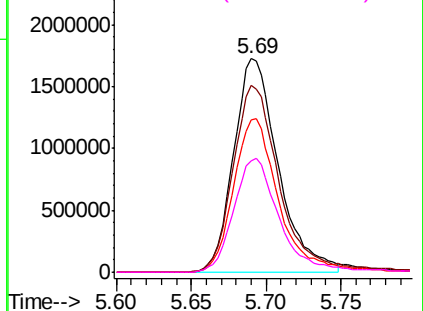
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 3583080

Ion	Ratio	Lower	Upper
57	100		
41	92.6	72.5	108.7
43	73.5	169.3	253.9#
56	55.5	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: 0.257 ppbv

RT: 4.55 min Scan# 549

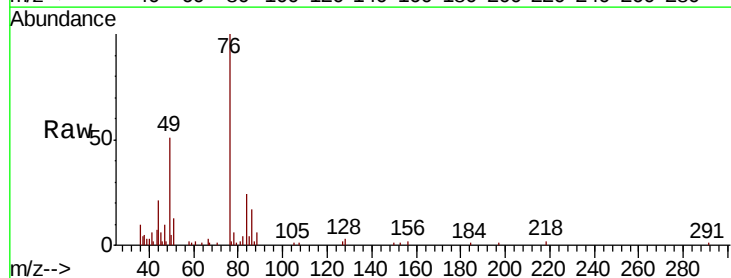
Delta R.T. 0.01 min

Lab File: VL037419.D

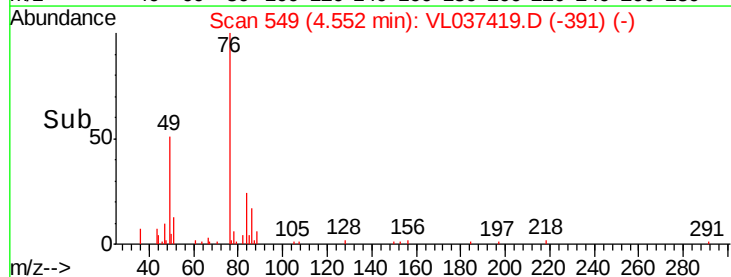
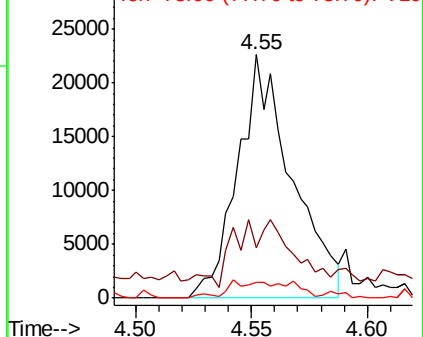
Acq: 12 Aug 2021 18:46

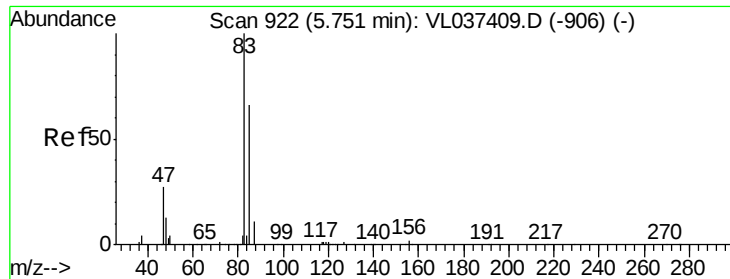
Tgt Ion: 76 Resp: 36715

Ion	Ratio	Lower	Upper
76	100		
44	33.4	14.4	21.6#
78	10.4	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

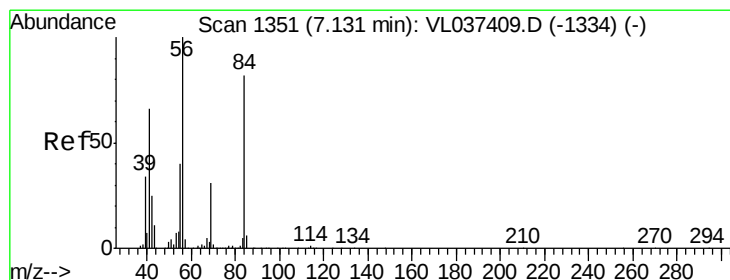
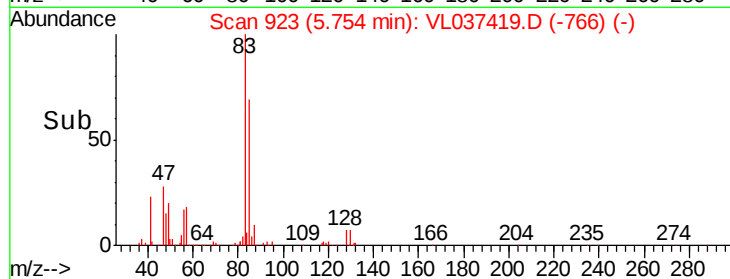
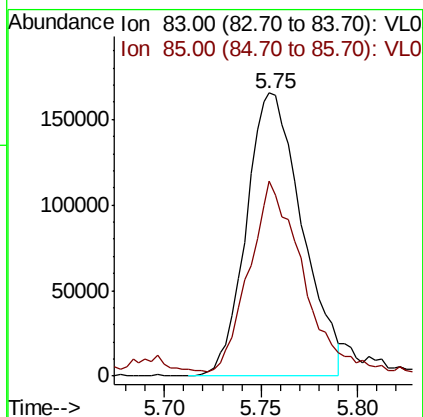
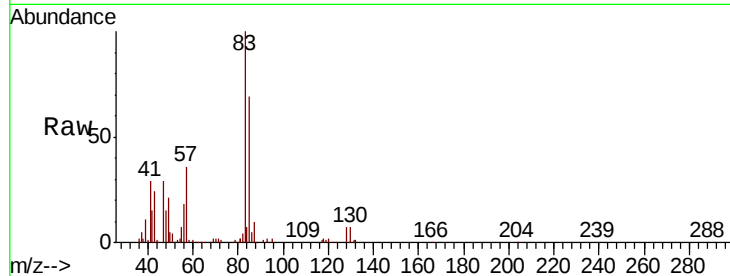




#29
Chloroform
Concen: 1.386 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

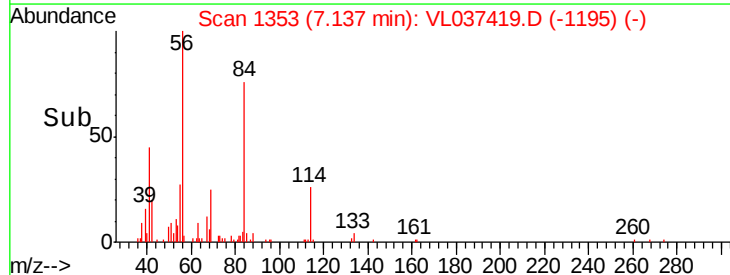
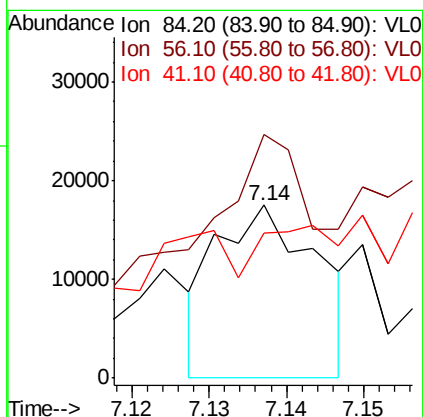
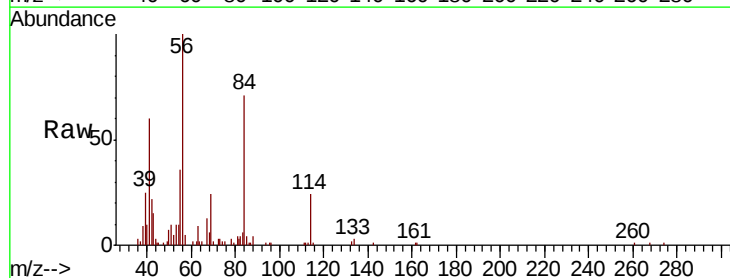
Instrument :
MSVOA_L
ClientSampleId :

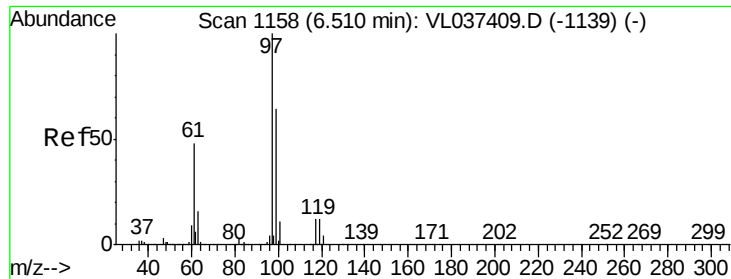
Tot Ion: 83 Resp: 330550
Ion Ratio Lower Upper
83 100
85 66.2 52.4 78.6



#30
Cyclohexane
Concen: 0.114 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 84 Resp: 15914
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: 0.398 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

ClientSampleId :

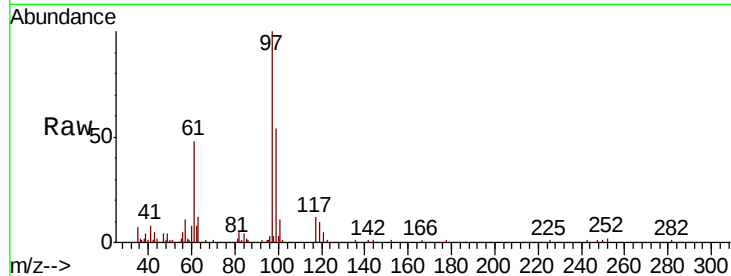
Tot Ion: 97 Resp: 95899

Ion Ratio Lower Upper

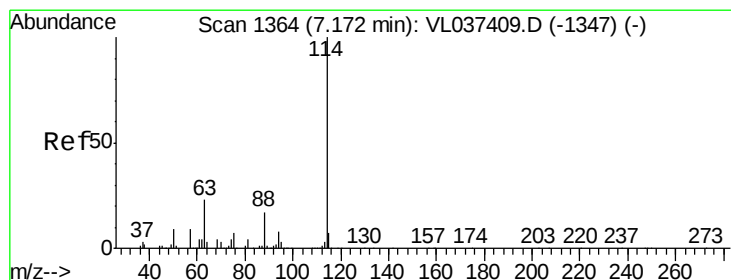
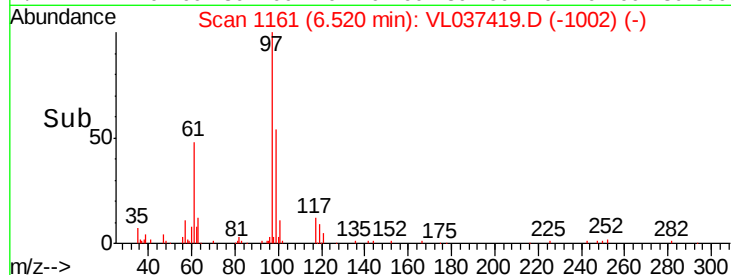
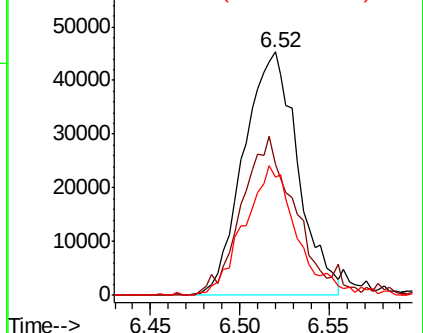
97 100

99 67.3 52.3 78.5

61 52.4 40.1 60.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

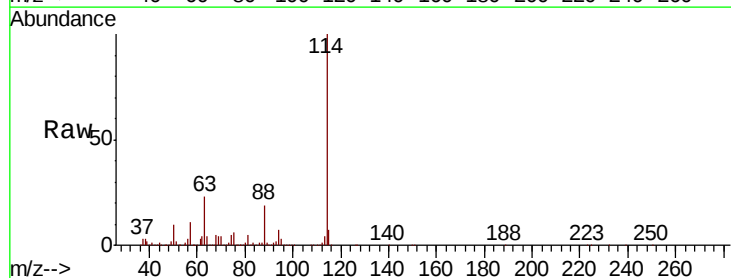
Tgt Ion: 114 Resp: 3923310

Ion Ratio Lower Upper

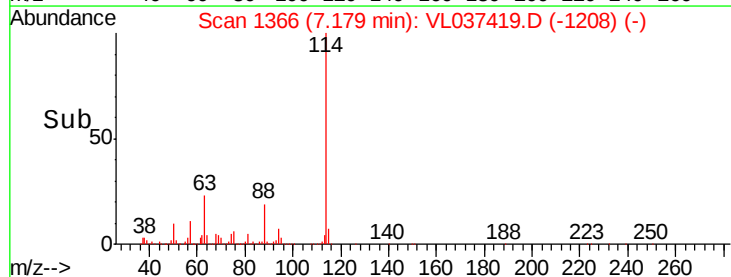
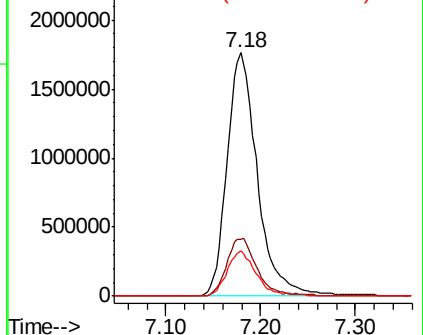
114 100

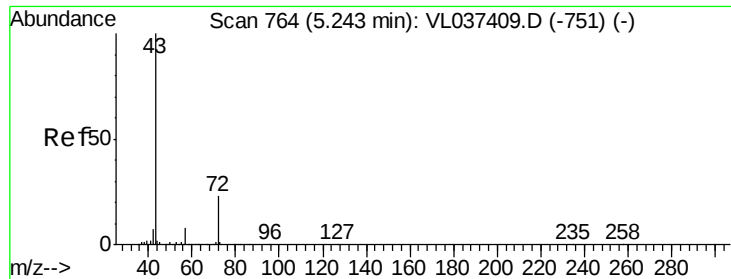
63 24.1 19.4 29.2

88 18.0 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

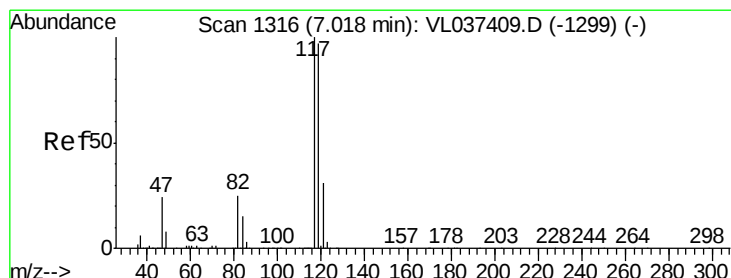
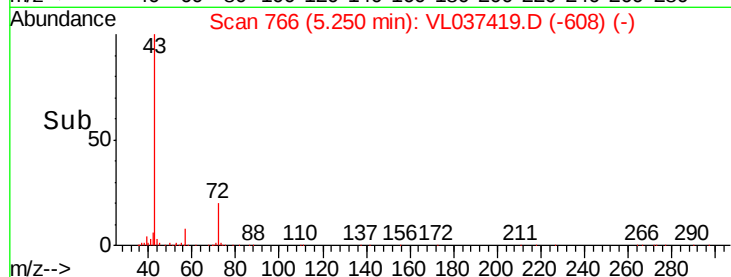
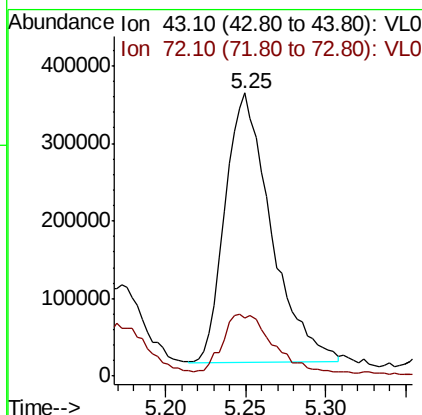
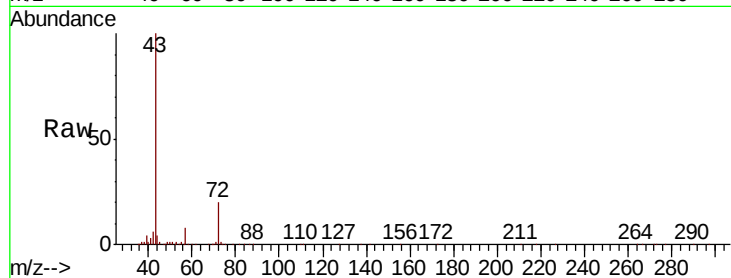




#34
2-Butanone
Concen: 4.228 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

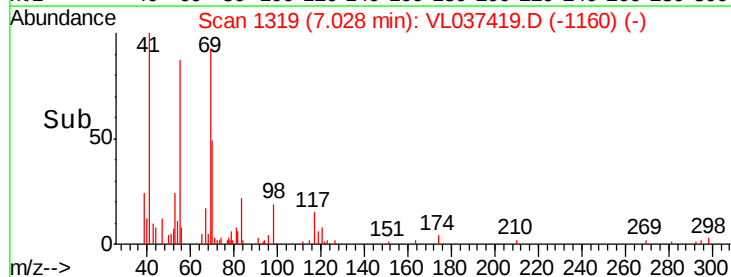
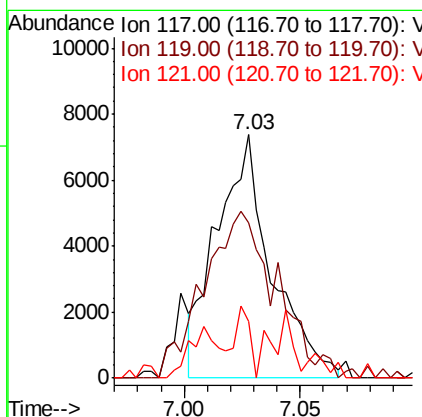
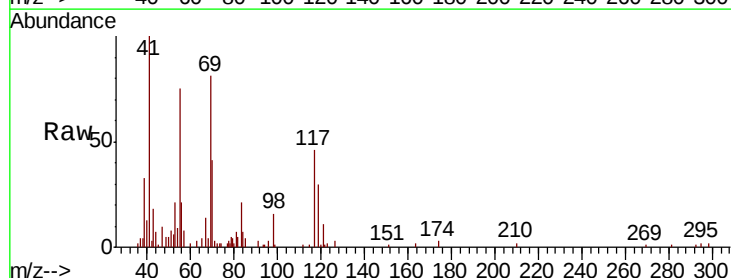
Instrument :
MSVOA_L
ClientSampled :

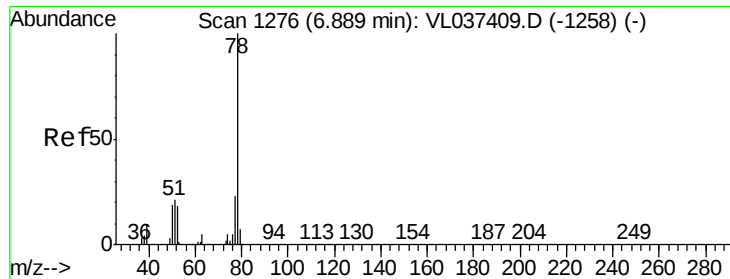
Tot Ion: 43 Resp: 684821
Ion Ratio Lower Upper
43 100
72 28.3 17.7 26.5#



#35
Carbon Tetrachloride
Concen: 0.050 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 117 Resp: 12044
Ion Ratio Lower Upper
117 100
119 66.1 77.5 116.3#
121 20.1 24.7 37.1#





#36

Benzene

Concen: 0.272 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

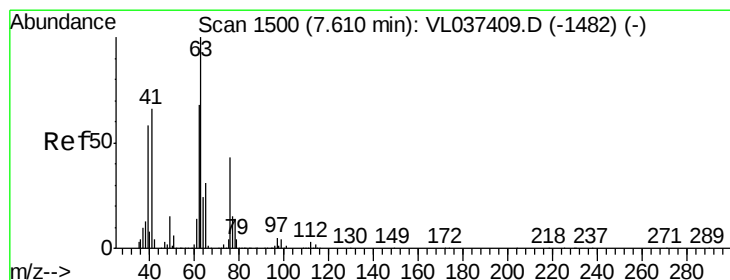
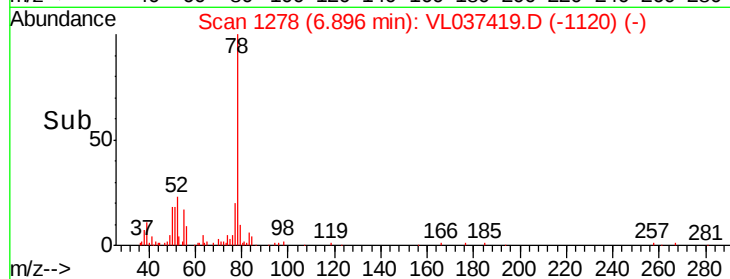
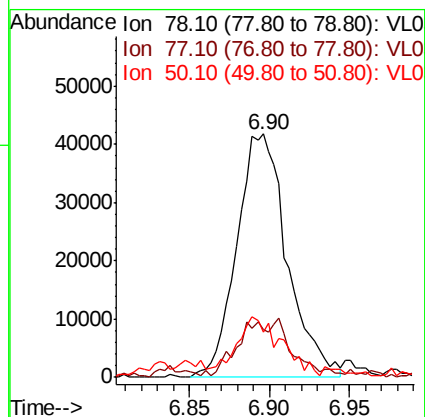
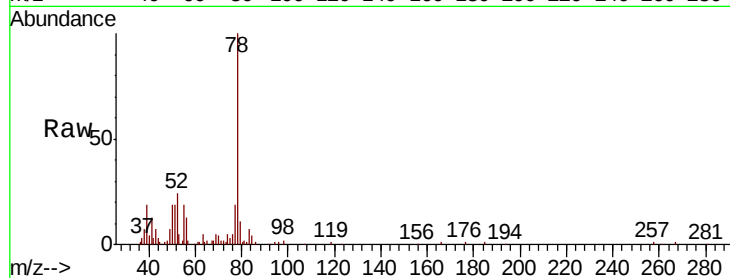
Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 78 Resp: 89978

Ion	Ratio	Lower	Upper
78	100		
77	17.6	18.6	27.8#
50	15.3	14.9	22.3



#39

1,2-Dichloropropane

Concen: 7.242 ppbv

RT: 7.18 min Scan# 1367

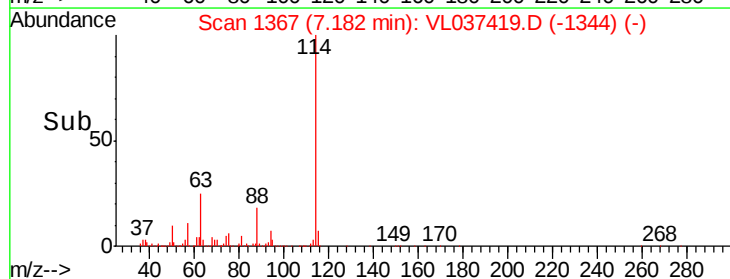
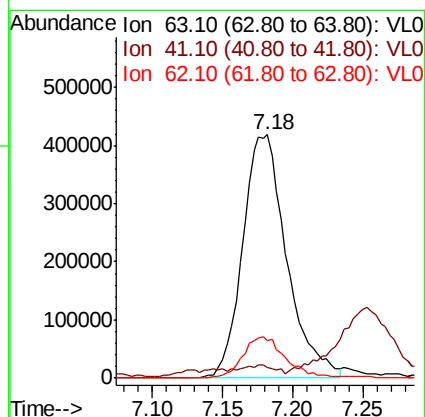
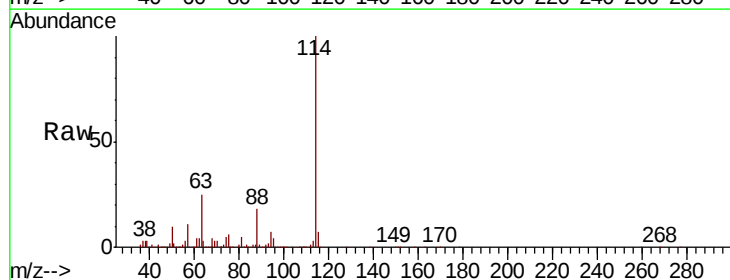
Delta R.T. -0.43 min

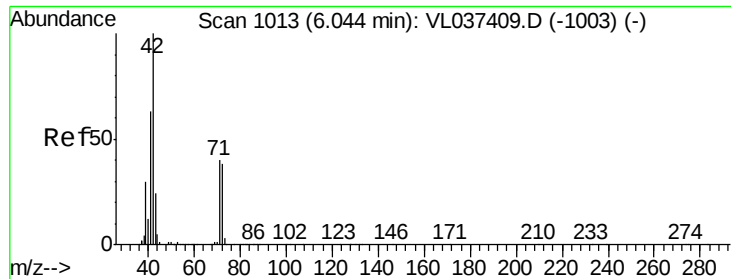
Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Tgt Ion: 63 Resp: 912687

Ion	Ratio	Lower	Upper
63	100		
41	1.2	53.0	79.6#
62	15.6	54.5	81.7#

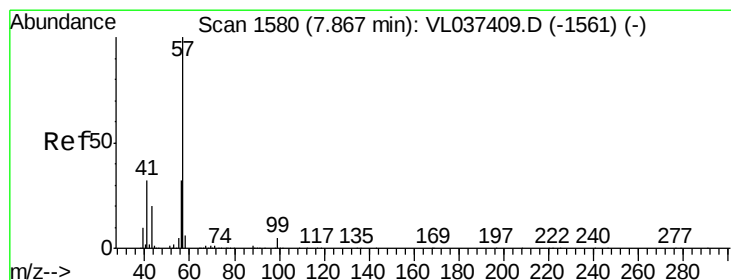
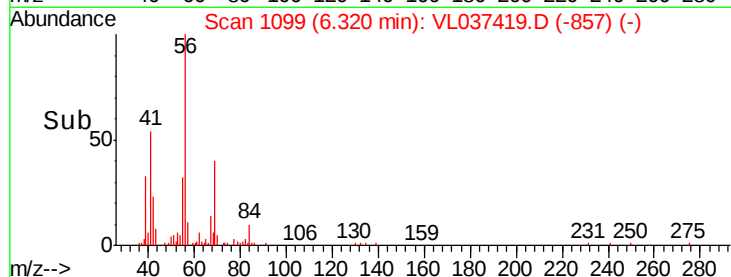
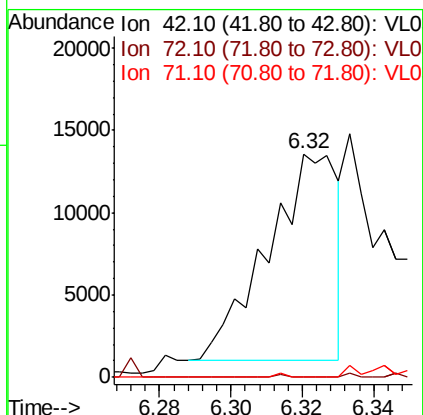
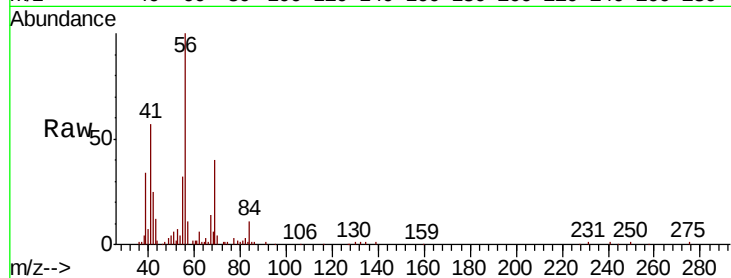




#41
Tetrahydrofuran
Concen: 0.231 ppbv
RT: 6.32 min Scan# 1099
Delta R.T. 0.28 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

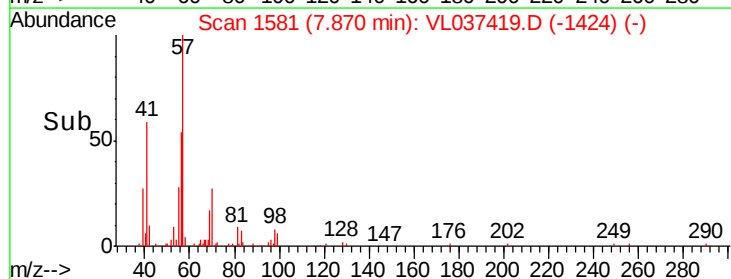
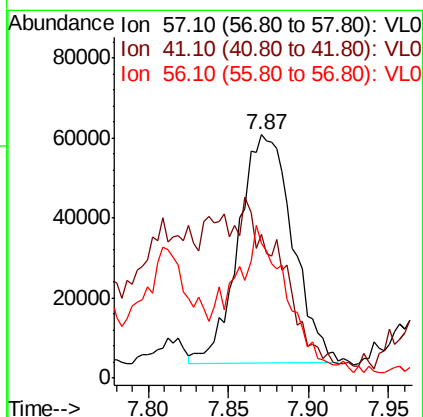
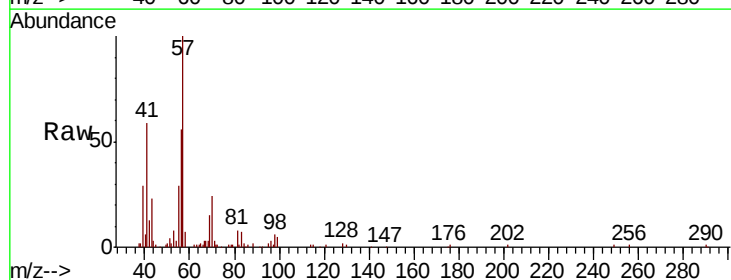
Instrument :
MSVOA_L
ClientSampleId :

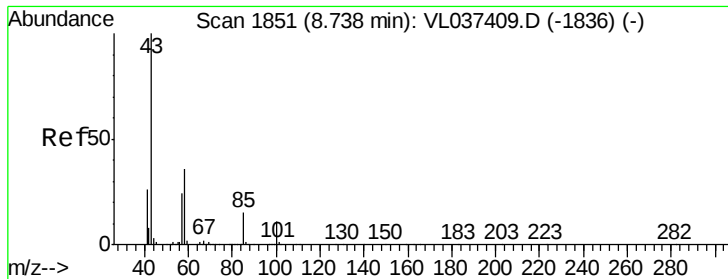
Tot Ion	Ratio	Lower	Upper
42	100		
72	3.8	33.5	50.3#
71	0.0	32.6	48.8#



#44
2,2,4-Trimethylpentane
Concen: 0.240 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	153.0	26.4	39.6#
56	66.3	25.0	37.4#





#50

4-Methyl-2-Pentanone

Concen: 0.094 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

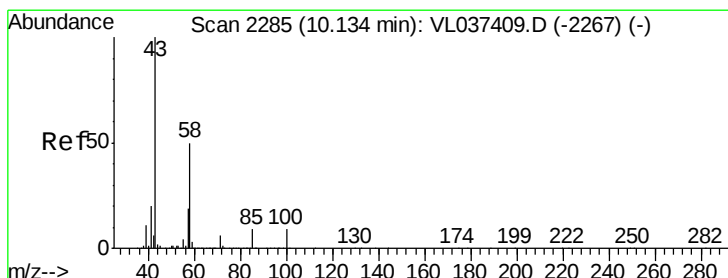
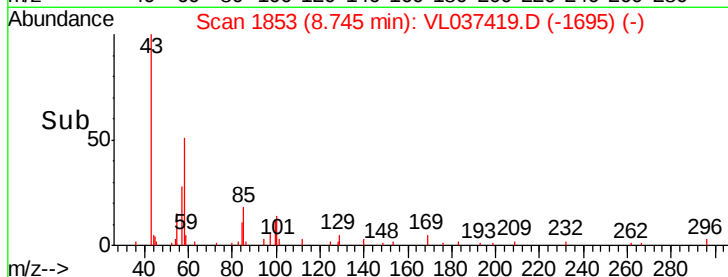
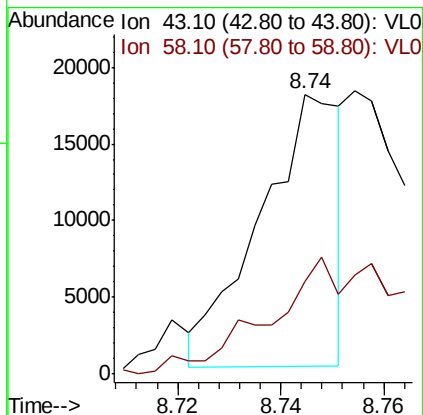
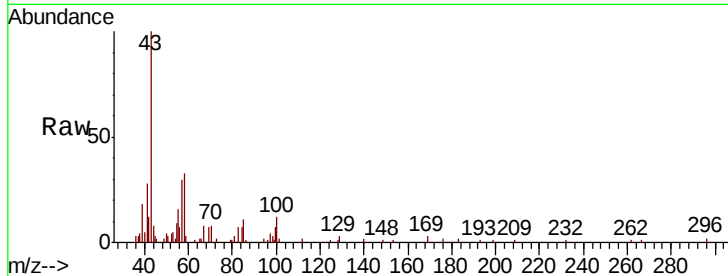
ClientSampleId :

Tot Ion: 43 Resp: 19113

Ion Ratio Lower Upper

43 100

58 106.1 29.9 44.9#



#51

2-Hexanone

Concen: 6.836 ppbv

RT: 10.14 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

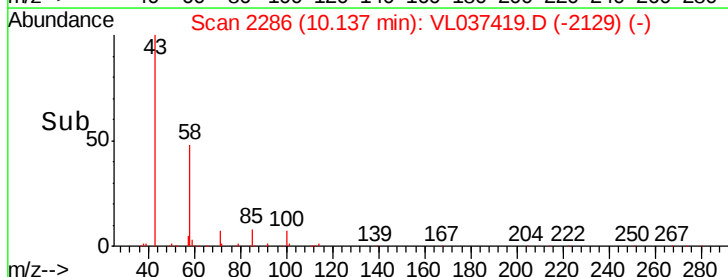
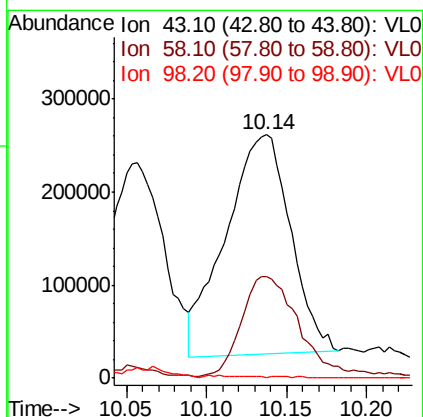
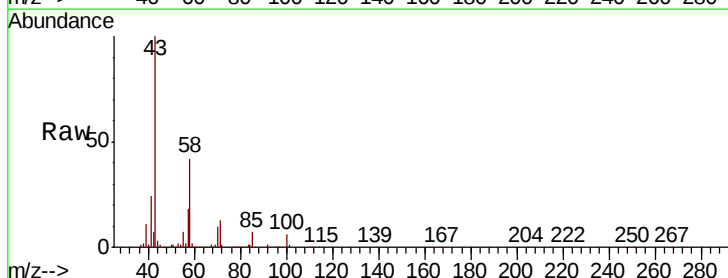
Tgt Ion: 43 Resp: 655354

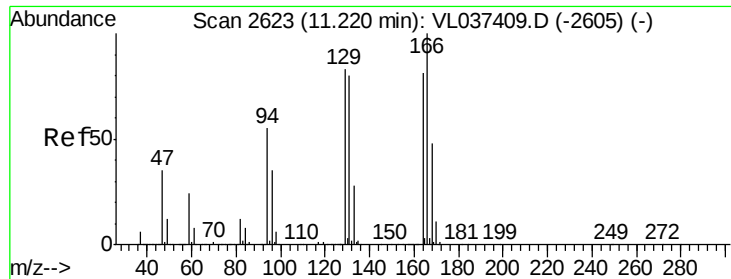
Ion Ratio Lower Upper

43 100

58 42.7 39.9 59.9

98 1.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.295 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 41077

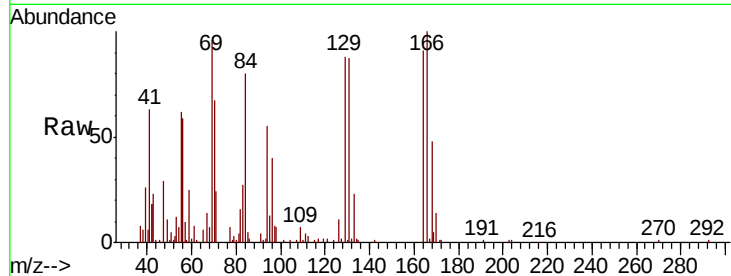
Ion Ratio Lower Upper

164 100

166 105.5 98.6 147.8

129 95.0 82.0 123.0

131 93.4 78.6 117.8

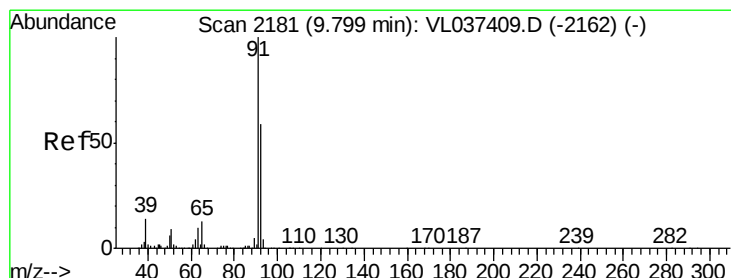
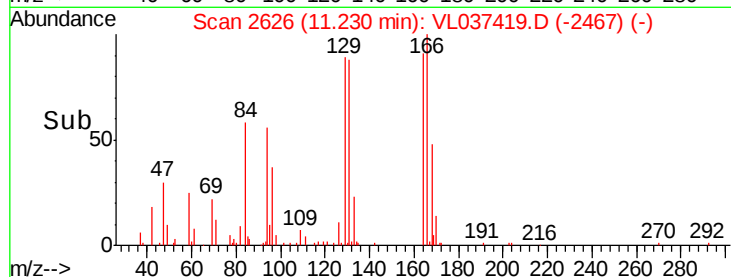
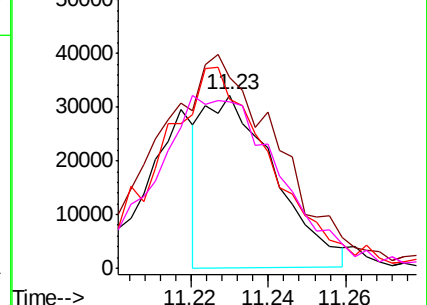


Abundance Ion 163.90 (163.60 to 164.60): V

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: 6.570 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL037419.D

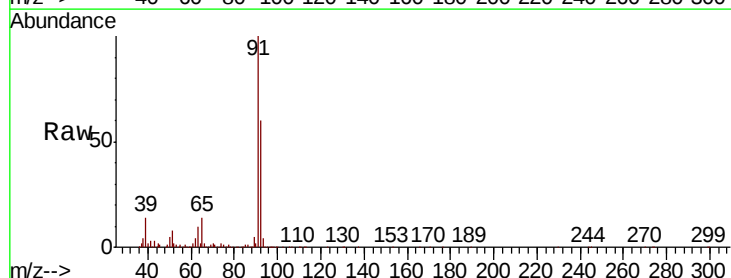
Acq: 12 Aug 2021 18:46

Tgt Ion: 91 Resp: 2481599

Ion Ratio Lower Upper

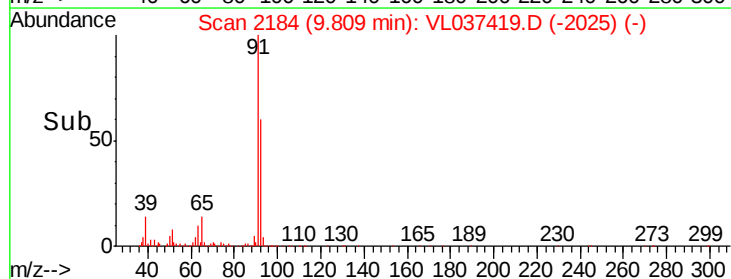
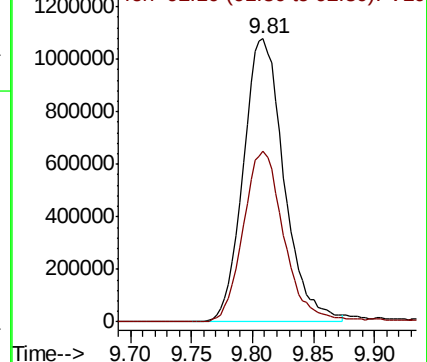
91 100

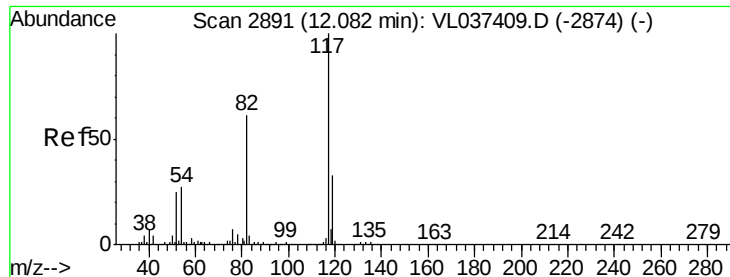
92 61.8 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

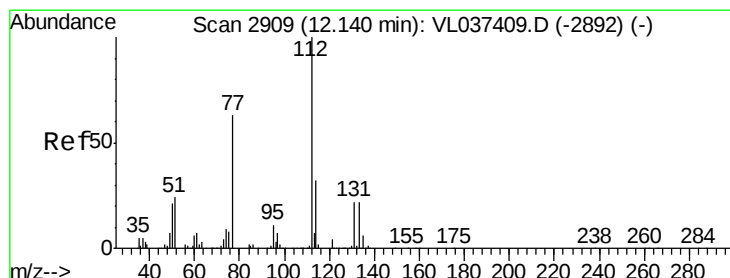
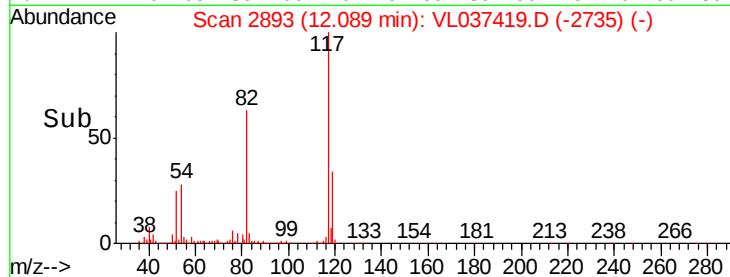
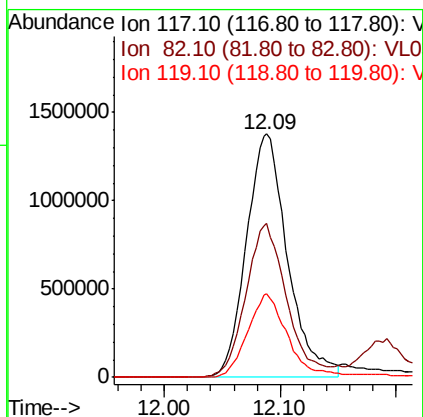
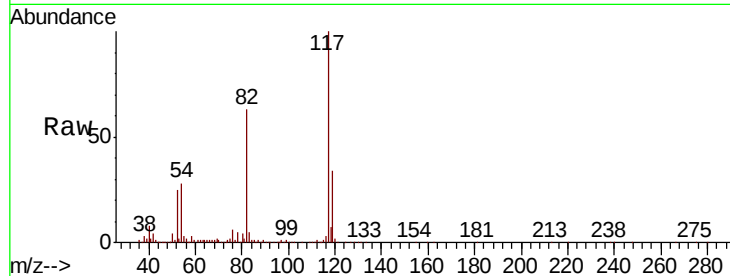




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

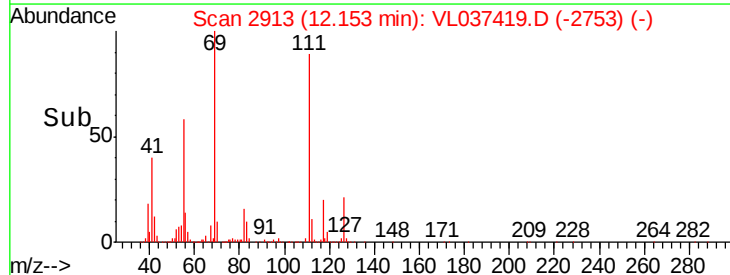
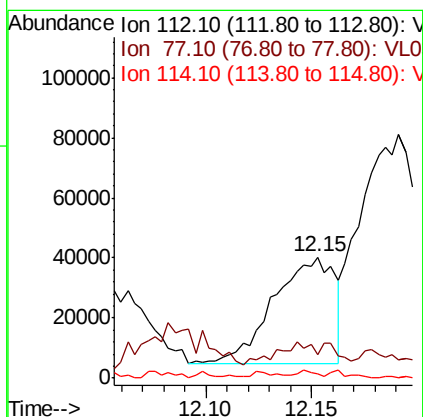
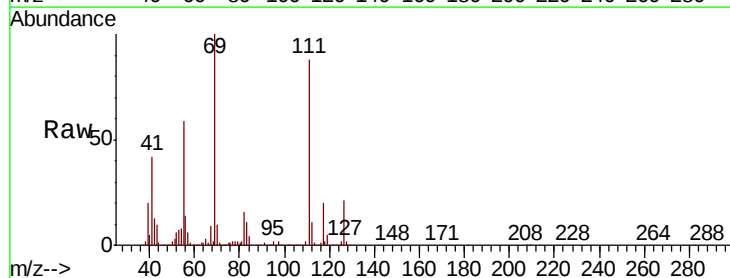
Instrument :
MSVOA_L
ClientSampleId :

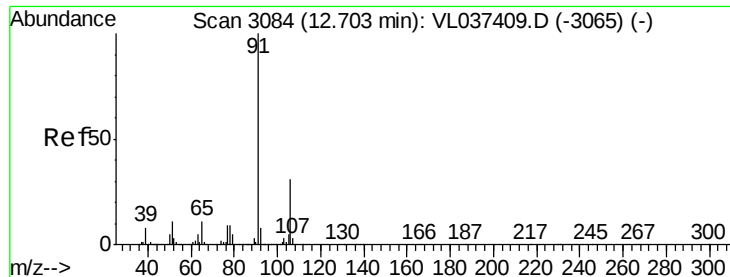
Tot Ion:117 Resp: 3393659
Ion Ratio Lower Upper
117 100
82 63.6 53.1 79.7
119 36.1 28.0 42.0



#57
Chlorobenzene
Concen: 0.260 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion:112 Resp: 71520
Ion Ratio Lower Upper
112 100
77 0.5 50.0 75.0#
114 4.8 28.5 34.9#





#58

Ethyl Benzene

Concen: 0.604 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

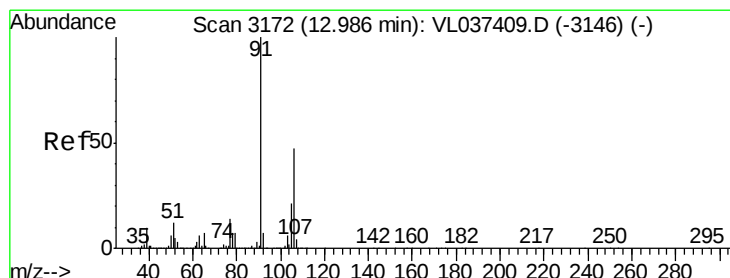
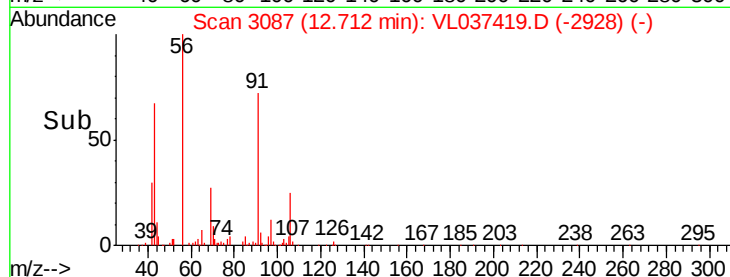
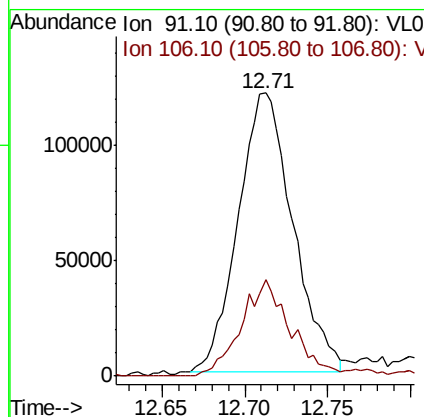
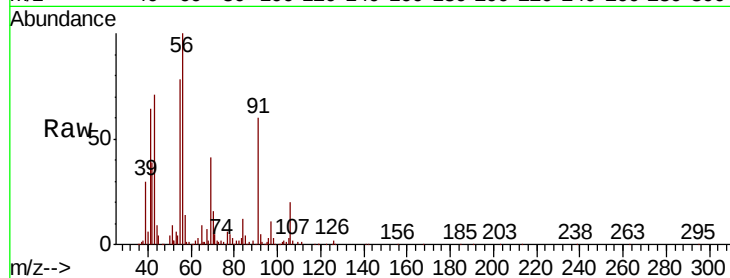
ClientSampled :

Tot Ion: 91 Resp: 277965

Ion Ratio Lower Upper

91 100

106 34.2 24.7 37.1



#59

m/p-Xylene

Concen: 1.694 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL037419.D

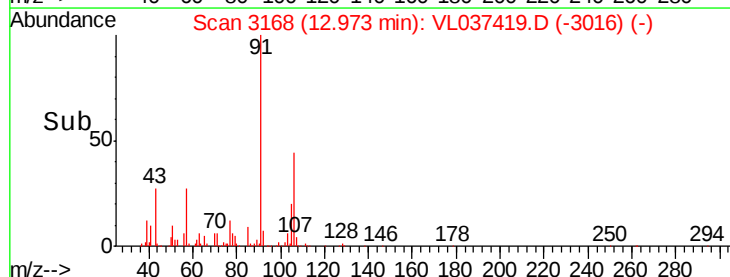
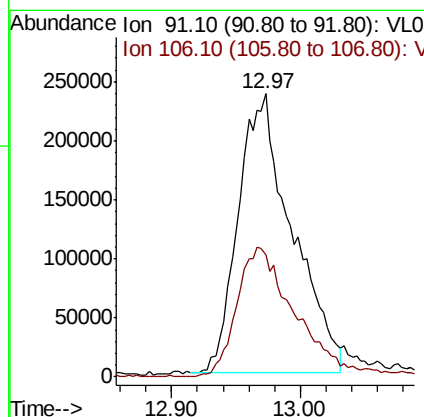
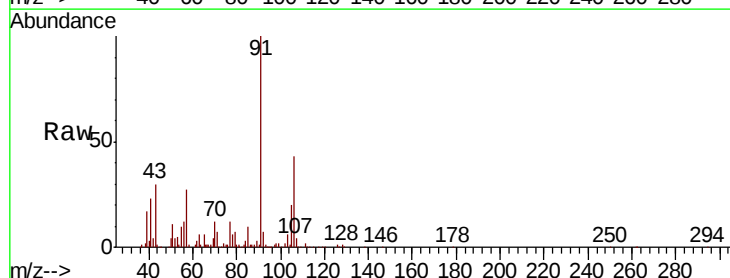
Acq: 12 Aug 2021 18:46

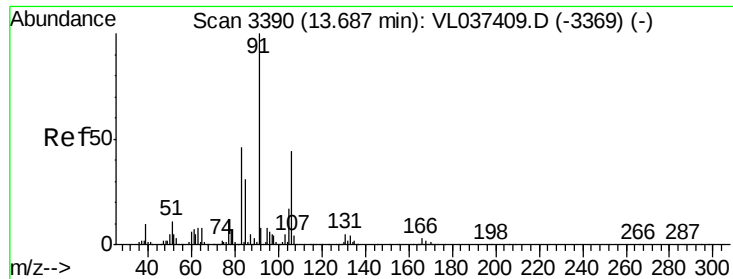
Tgt Ion: 91 Resp: 684893

Ion Ratio Lower Upper

91 100

106 52.1 36.6 54.8

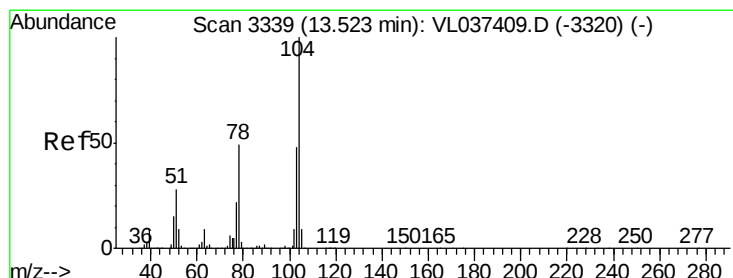
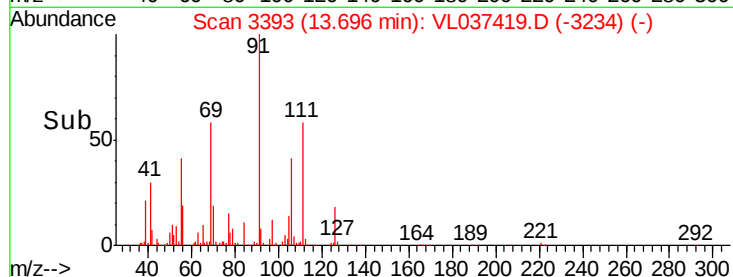
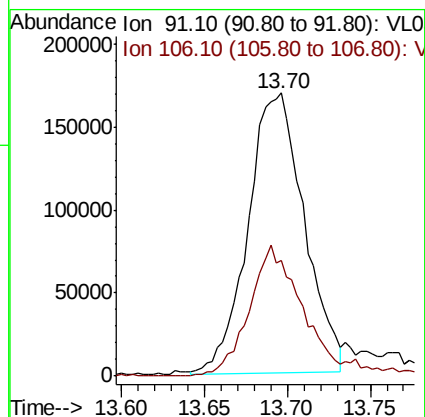
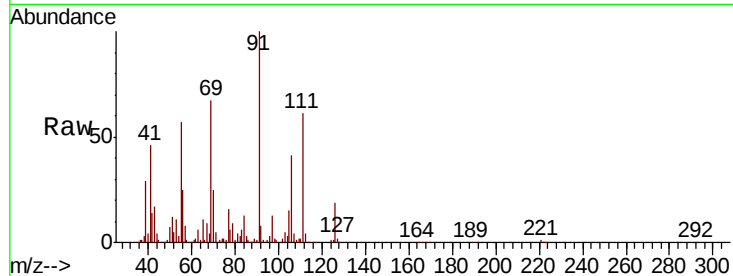




#60
o-Xylene
Concen: 1.056 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

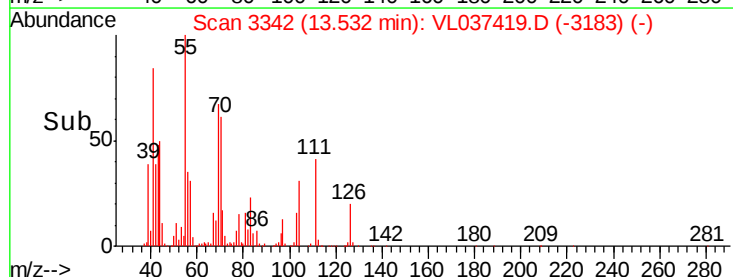
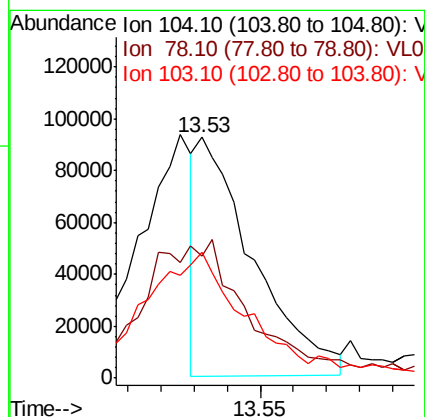
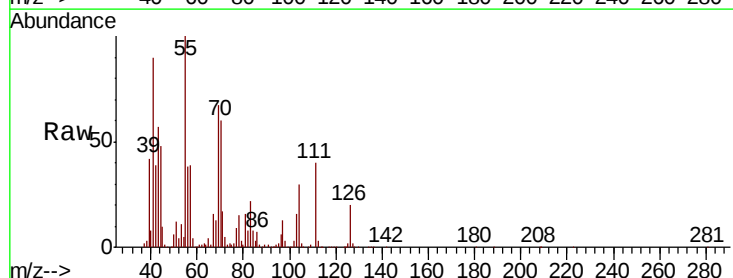
Instrument :
MSVOA_L
ClientSampled :

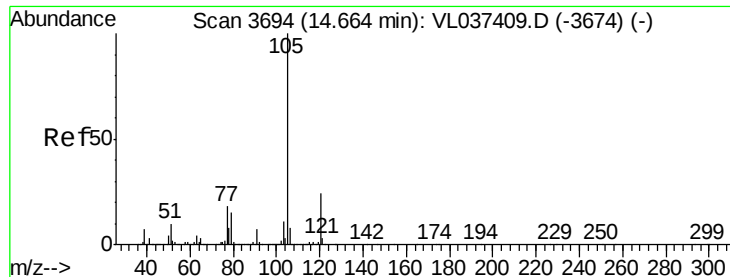
Tot Ion: 91 Resp: 396842
Ion Ratio Lower Upper
91 100
106 48.4 24.1 72.2



#61
Styrene
Concen: 0.569 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 104 Resp: 108001
Ion Ratio Lower Upper
104 100
78 123.6 41.5 62.3#
103 105.1 40.2 60.2#





#62

Isopropylbenzene

Concen: 0.199 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

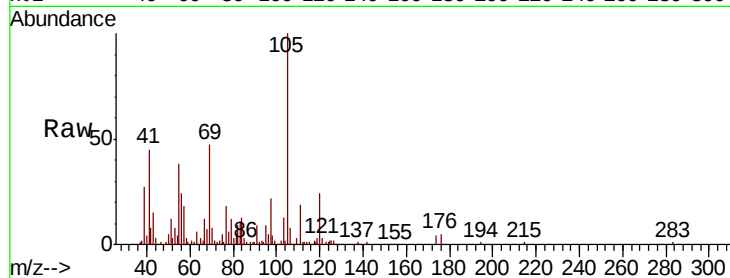
ClientSampleId :

Tot Ion:105 Resp: 107084

Ion Ratio Lower Upper

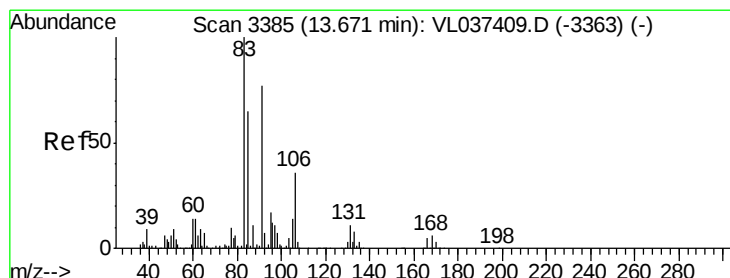
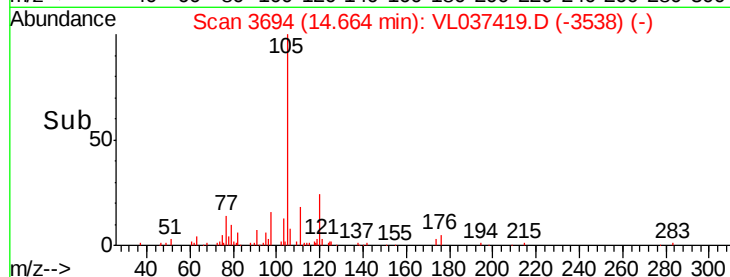
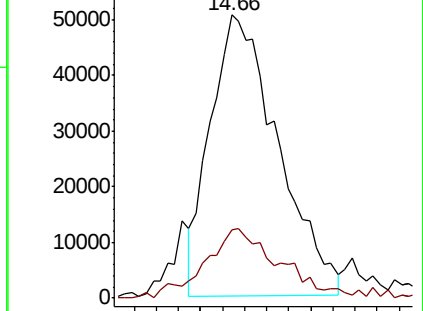
105 100

120 28.3 21.6 32.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.128 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

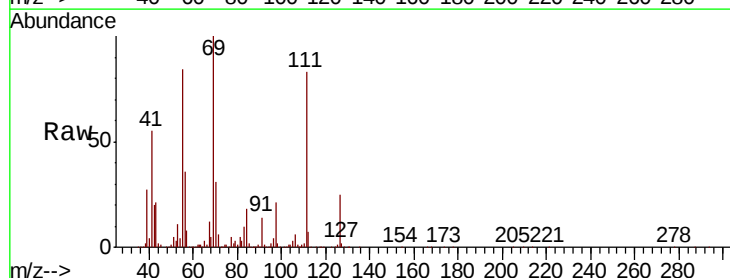
Tgt Ion: 83 Resp: 36292

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

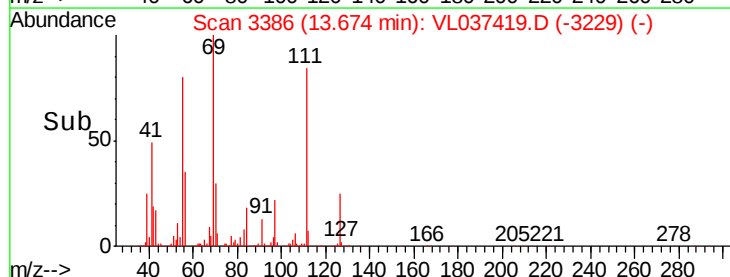
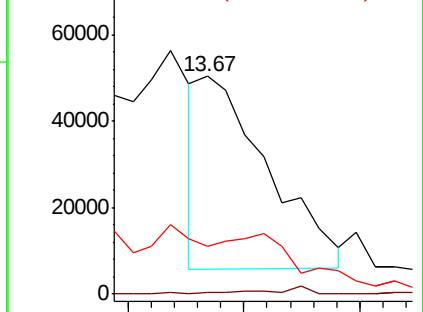
85 0.0 33.4 100.2#

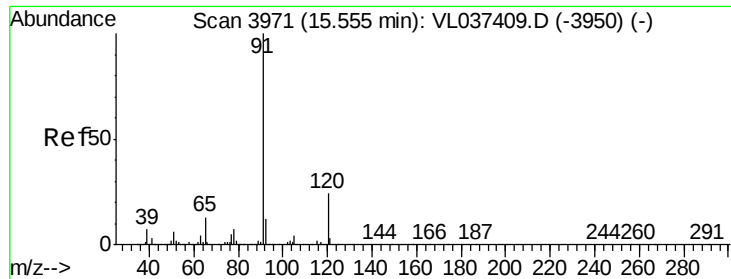


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.311 ppbv

RT: 15.57 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

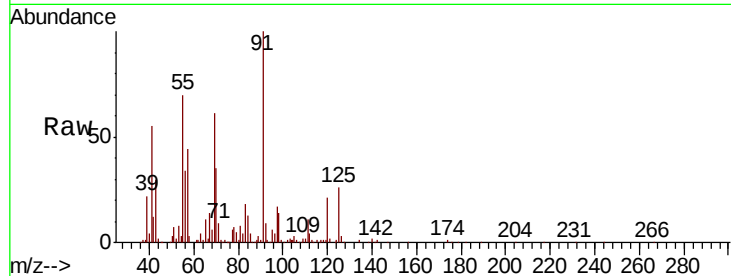
ClientSampleId :

Tot Ion:120 Resp: 42104

Ion Ratio Lower Upper

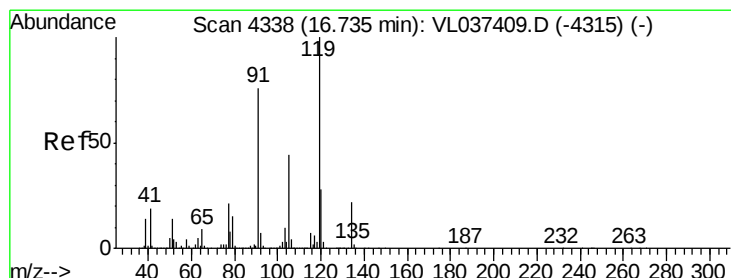
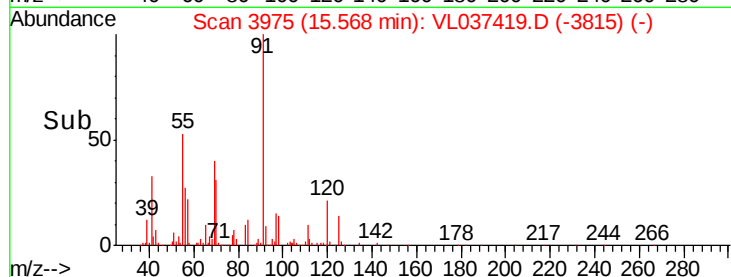
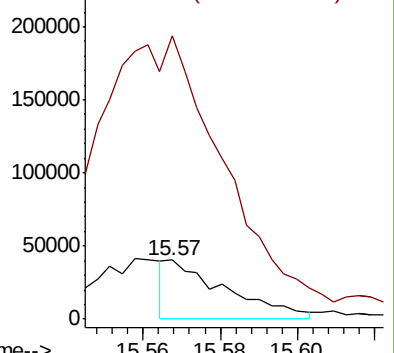
120 100

91 1200.3 388.4 582.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.254 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.02 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

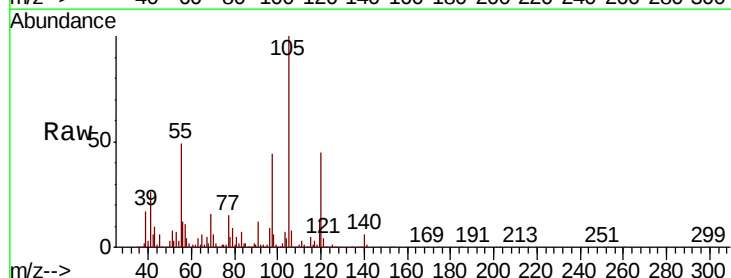
Tgt Ion:119 Resp: 123265

Ion Ratio Lower Upper

119 100

91 207.0 62.2 93.4#

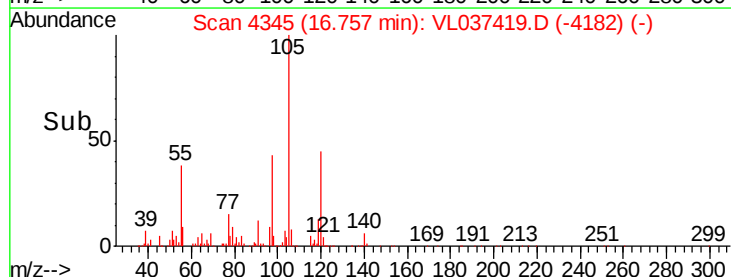
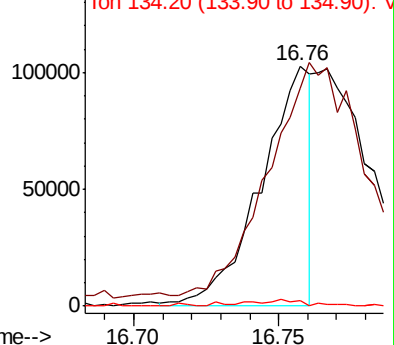
134 3.6 16.1 24.1#

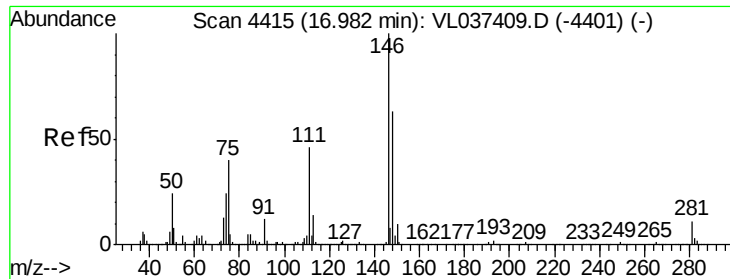


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

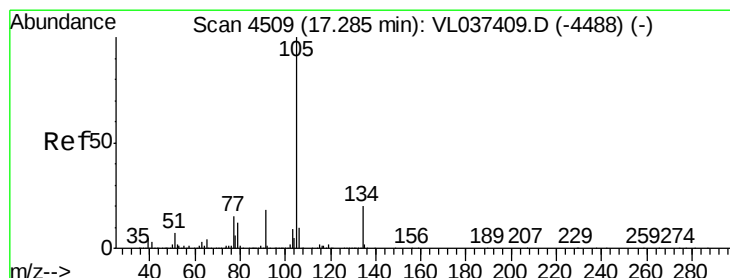
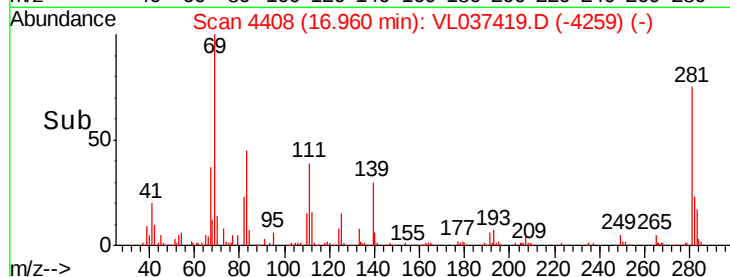
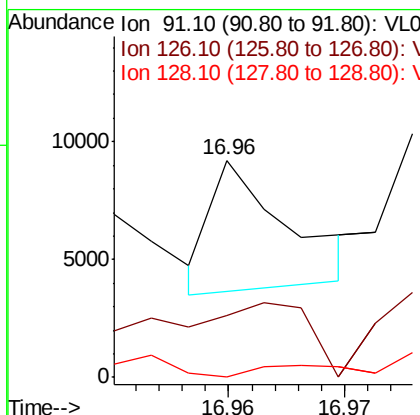
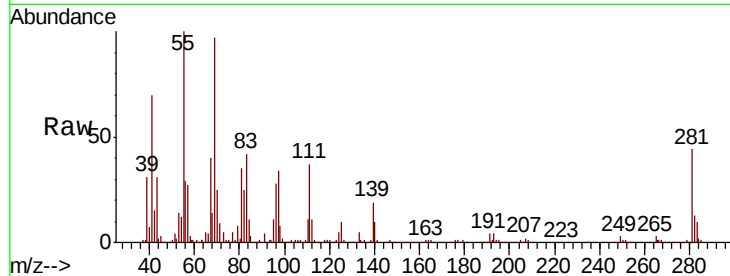




#66
Benzyl Chloride
Concen: 0.114 ppbv
RT: 16.96 min Scan# 4408
Delta R.T. -0.02 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

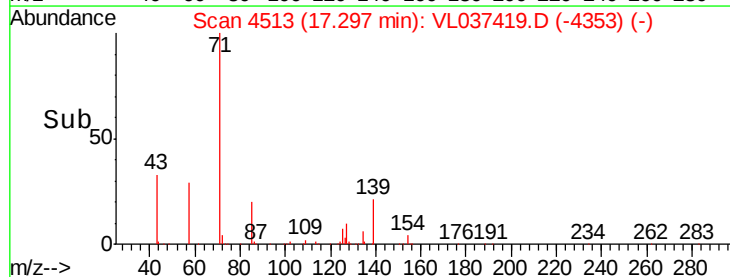
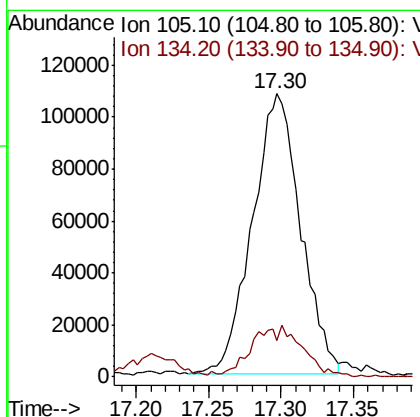
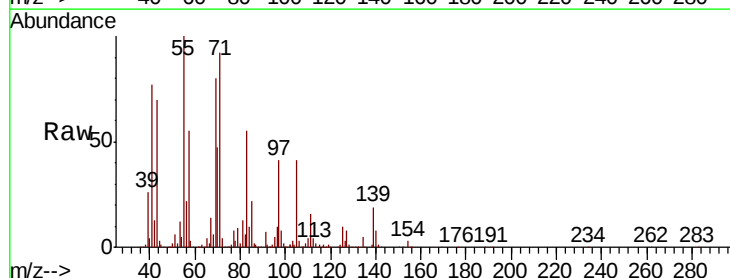
Instrument :
MSVOA_L
ClientSampled :

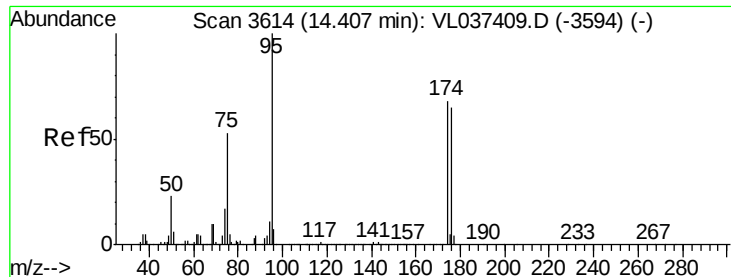
Tot Ion: 91 Resp: 2519
Ion Ratio Lower Upper
91 100
126 0.0 14.3 21.5#
128 26.8 4.6 7.0#



#67
sec-Butylbenzene
Concen: 0.380 ppbv
RT: 17.30 min Scan# 4513
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 105 Resp: 250337
Ion Ratio Lower Upper
105 100
134 19.3 15.4 23.0

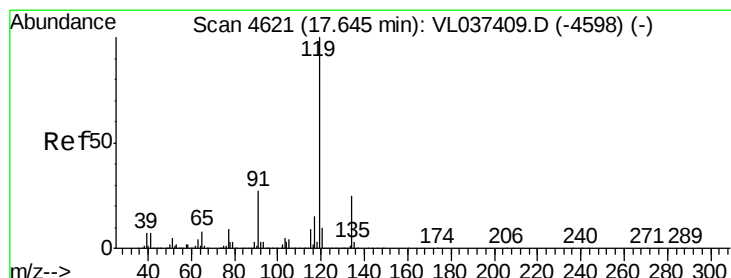
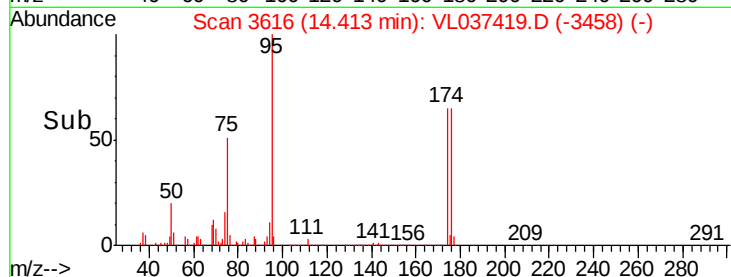
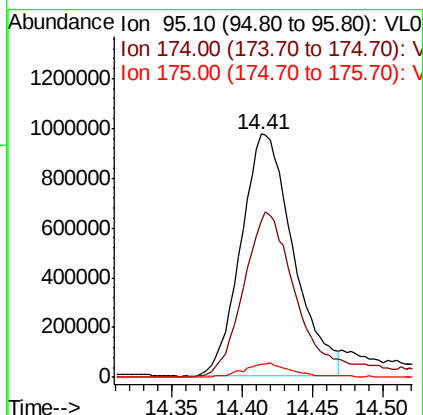
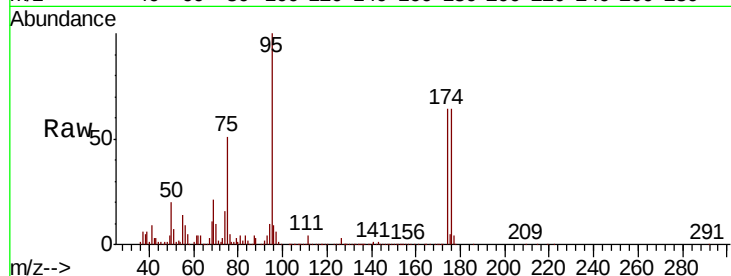




#68
1-Bromo-4-Fluorobenzene
Concen: 10.395 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

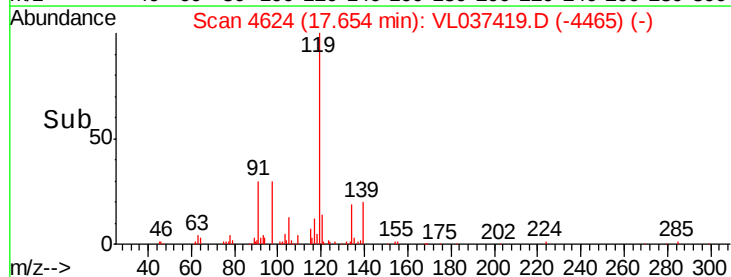
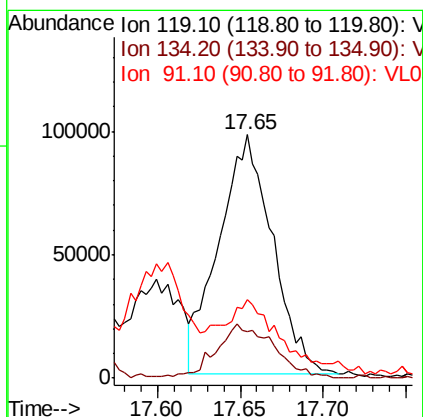
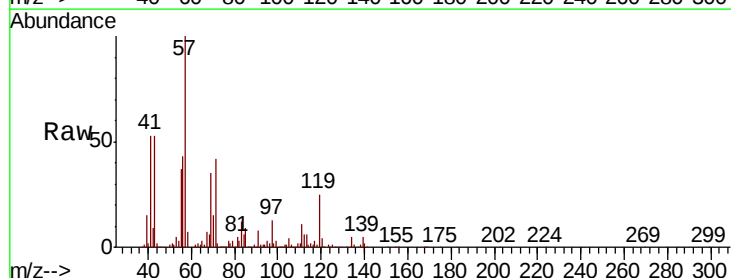
Instrument :
MSVOA_L
ClientSampleId :

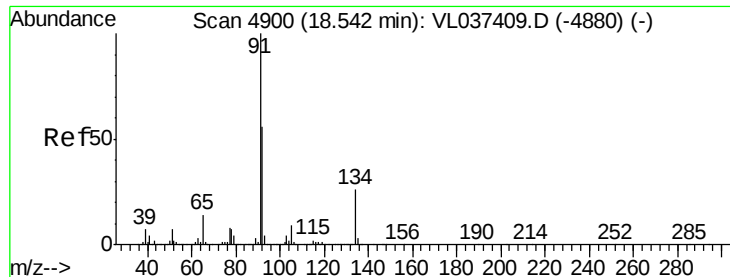
Tot Ion: 95 Resp: 2530617
Ion Ratio Lower Upper
95 100
174 75.6 59.6 89.4
175 5.5 4.3 6.5



#69
p-Isopropyltoluene
Concen: 0.405 ppbv
RT: 17.65 min Scan# 4624
Delta R.T. 0.01 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 119 Resp: 218983
Ion Ratio Lower Upper
119 100
134 24.7 20.6 31.0
91 36.2 22.4 33.6#

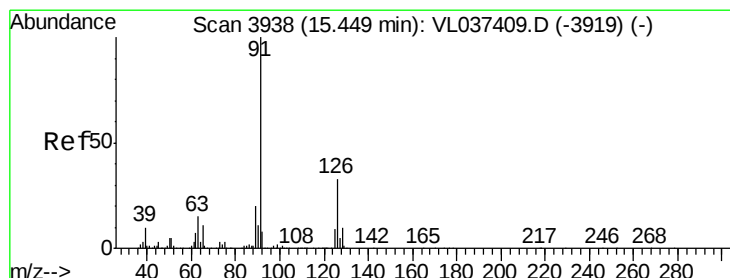
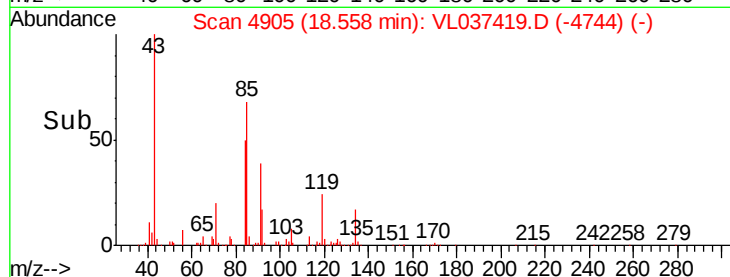
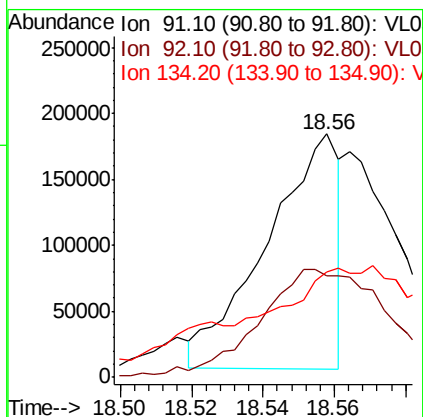
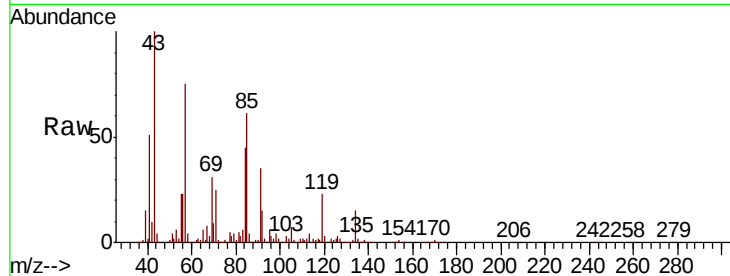




#70
n-Butylbenzene
Concen: 0.498 ppbv
RT: 18.56 min Scan# 4905
Delta R.T. 0.02 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

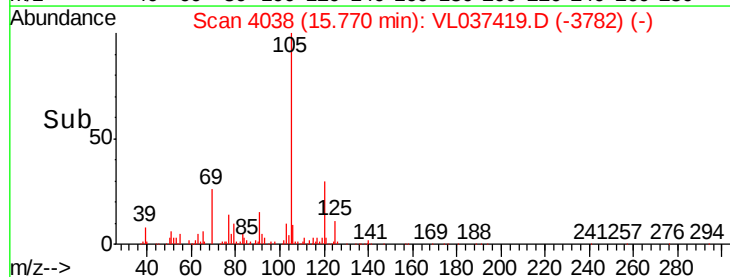
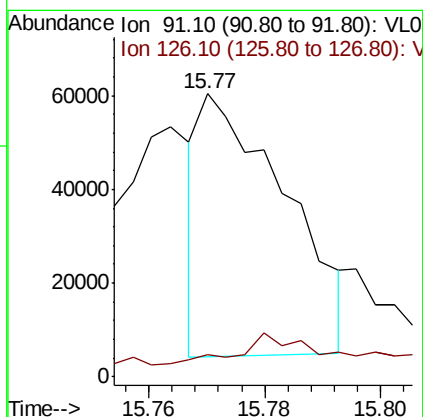
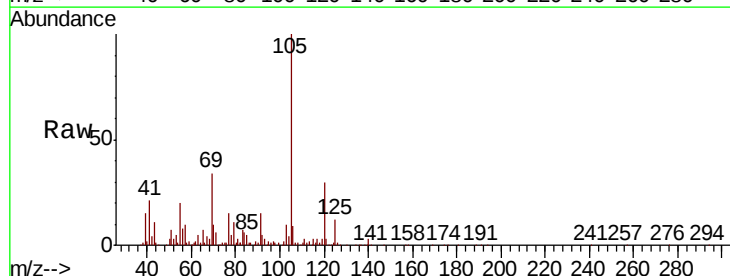
Instrument :
MSVOA_L
ClientSampleId :

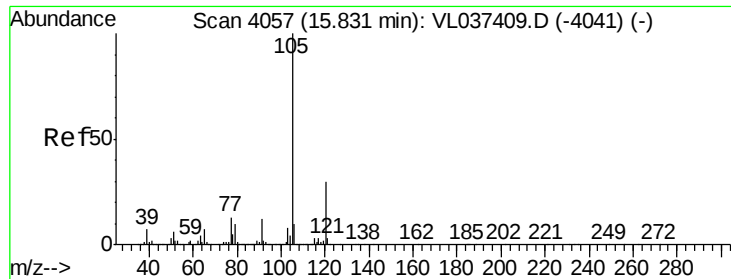
Tot Ion: 91 Resp: 250699
Ion Ratio Lower Upper
91 100
92 82.4 44.2 66.2#
134 0.0 19.5 29.3#



#71
2-Chlorotoluene
Concen: 0.151 ppbv
RT: 15.77 min Scan# 4038
Delta R.T. 0.32 min
Lab File: VL037419.D
Acq: 12 Aug 2021 18:46

Tgt Ion: 91 Resp: 57560
Ion Ratio Lower Upper
91 100
126 30.5 13.5 53.9





#72

4-Ethyltoluene

Concen: 1.110 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. 0.01 min

Lab File: VL037419.D

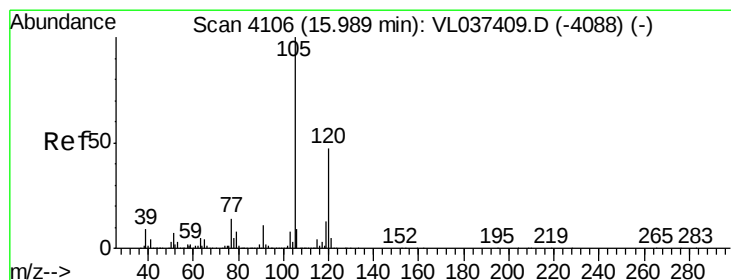
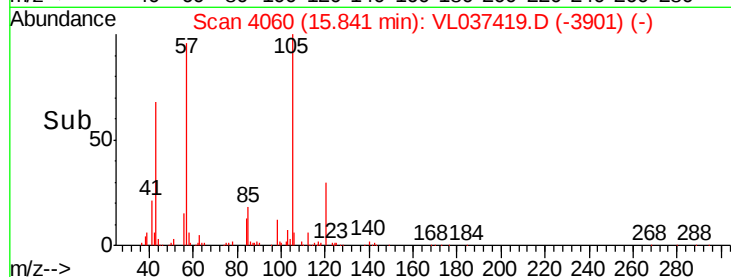
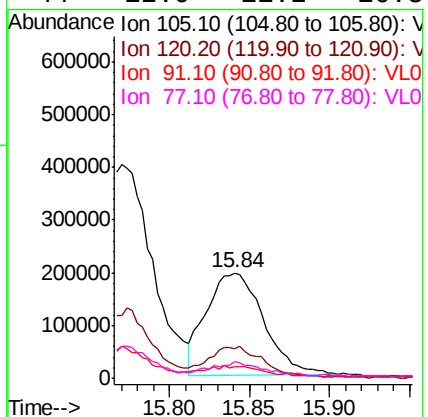
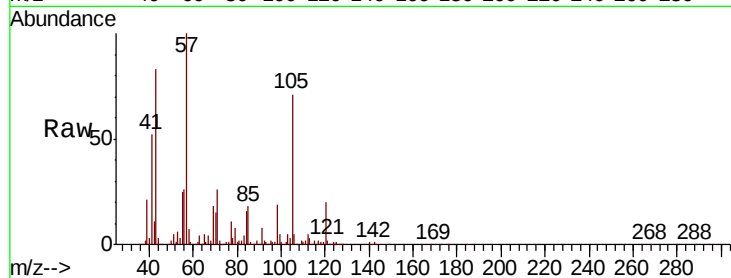
Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	484163
Ion	Ratio	Lower	Upper
105	100		
120	31.0	25.0	37.4
91	9.4	11.2	16.8
77	12.9	11.2	16.8



#73

1,3,5-Trimethylbenzene

Concen: 0.741 ppbv

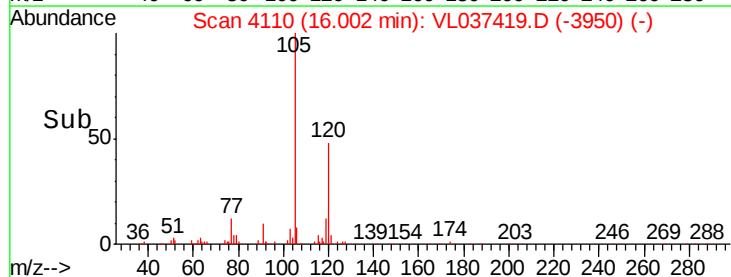
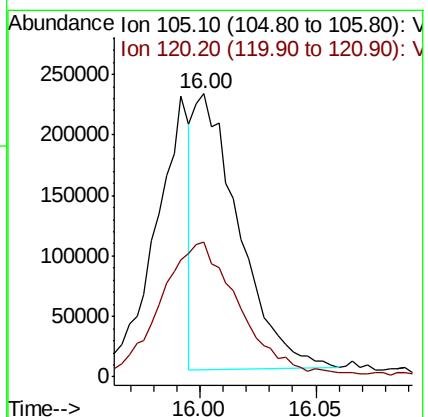
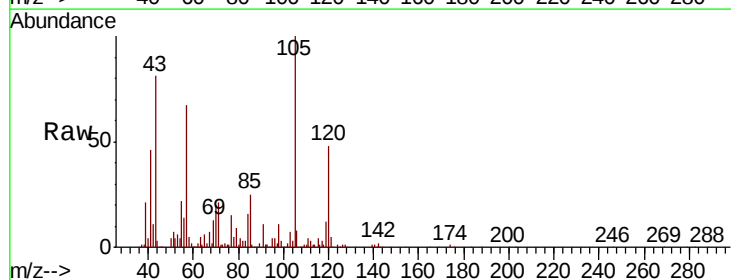
RT: 16.00 min Scan# 4110

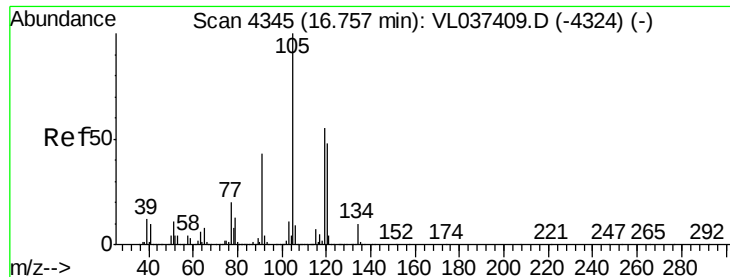
Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Tgt Ion:	105	Resp:	305551
Ion	Ratio	Lower	Upper
105	100		
120	47.7	37.4	56.0





#74

1,2,4-Trimethylbenzene

Concen: 5.106 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 2155061

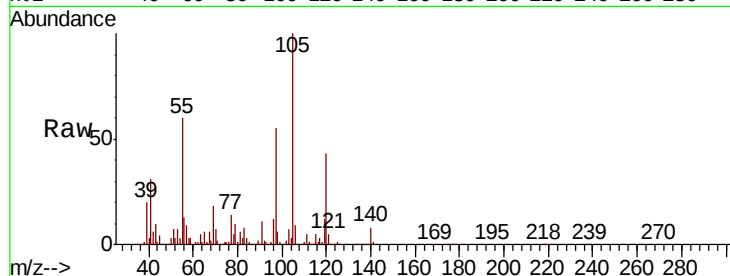
Ion Ratio Lower Upper

105 100

120 43.3 38.2 57.2

91 10.9 35.4 53.2#

77 13.4 16.2 24.2#

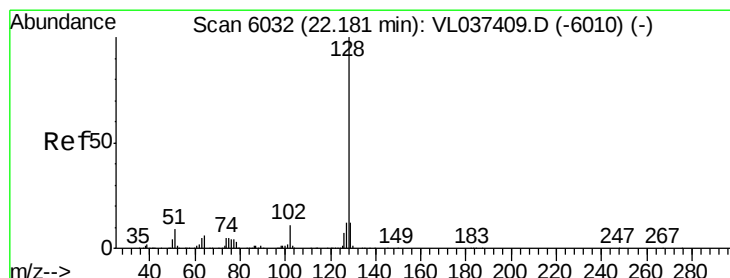
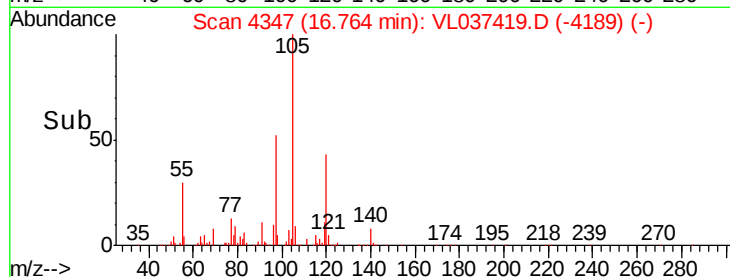
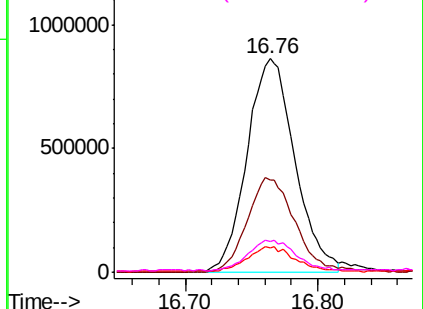


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.336 ppbv

RT: 22.19 min Scan# 6036

Delta R.T. 0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

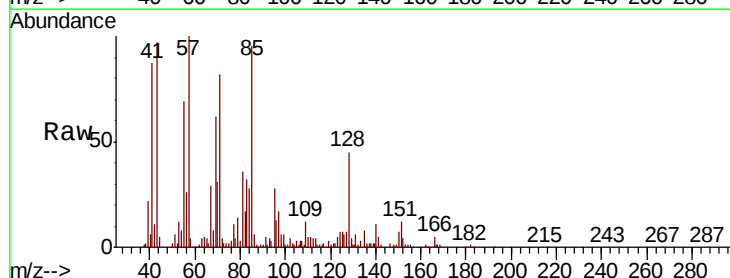
Tgt Ion:128 Resp: 77104

Ion Ratio Lower Upper

128 100

127 12.7 9.9 14.9

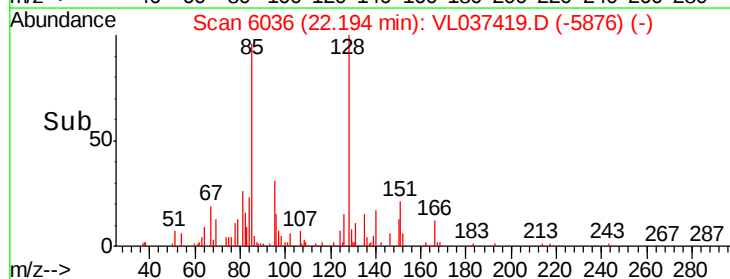
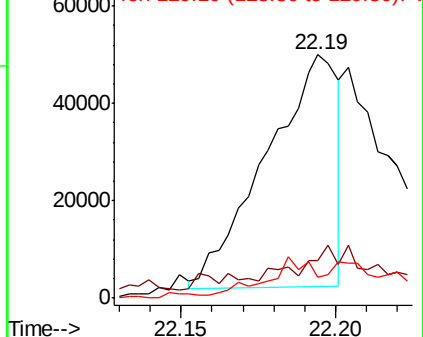
129 7.7 9.4 14.0#

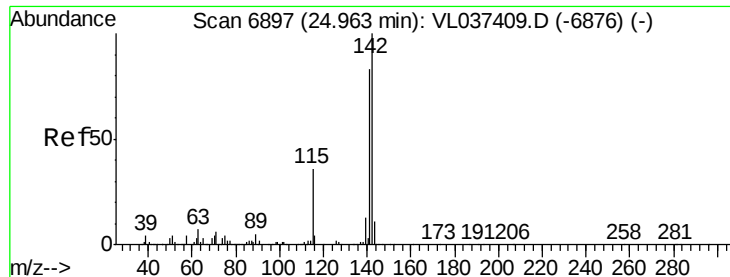


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.583 ppbv

RT: 24.96 min Scan# 6895

Delta R.T. -0.01 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

Instrument :

MSVOA_L

ClientSampleId :

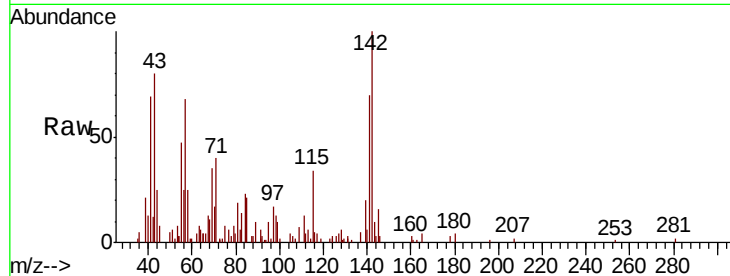
Tot Ion:142 Resp: 28254

Ion Ratio Lower Upper

142 100

141 85.3 68.7 103.1

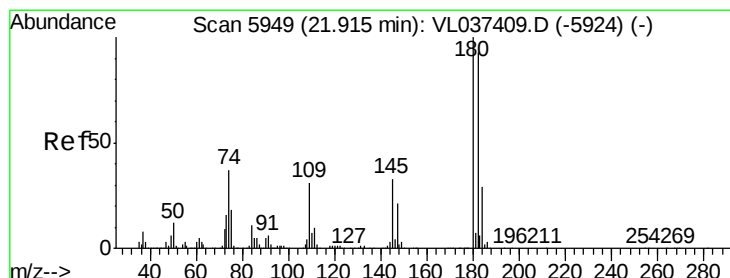
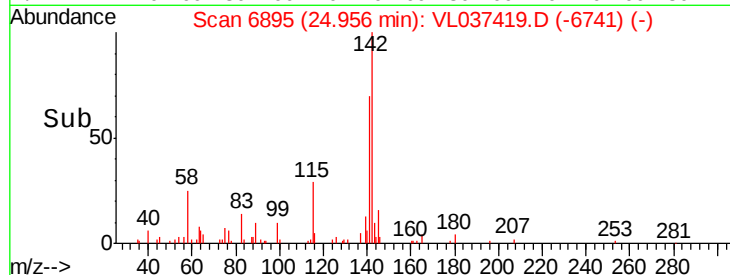
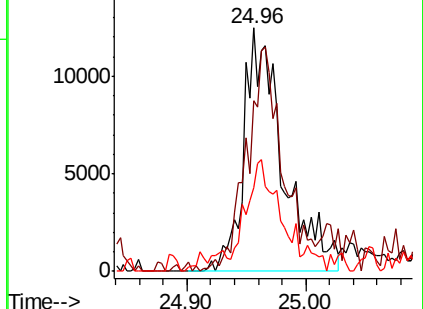
115 48.9 32.7 49.1



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



#81

1,2,4-Trichlorobenzene

Concen: 0.032 ppbv

RT: 21.91 min Scan# 5948

Delta R.T. -0.00 min

Lab File: VL037419.D

Acq: 12 Aug 2021 18:46

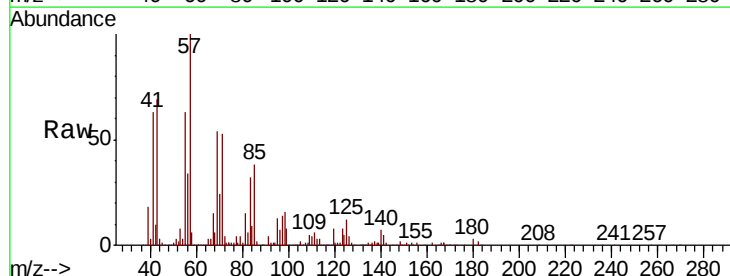
Tgt Ion:180 Resp: 5048

Ion Ratio Lower Upper

180 100

182 466.2 78.6 118.0#

184 68.5 24.6 36.8#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

