

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037325.D
 Acq On : 5 Aug 2021 2:36
 Operator : SY/AP
 Sample : M3211-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 04:00:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 04 22:53:01 2021
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1105797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3605754	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3056855	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2144032	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	36814	0.164	ppbv 96
3) Chlorodifluoromethane	2.98	51	35512	0.158	ppbv 92
4) Chloromethane	3.13	50	15740	0.195	ppbv # 70
7) Chloroethane	3.56	64	2199	0.073	ppbv 93
9) Propene	3.20	41	2938442	36.145	ppbv 92
10) Heptane	8.11	43	1209163	6.368	ppbv 99
11) Trichlorofluoromethane	3.94	101	60225	0.292	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5409	0.036	ppbv # 1
13) Ethanol	3.61	45	1052040	85.916	ppbv 92
15) Acetone	3.84	43	18056825	150.327	ppbv 96
16) 1,3-Butadiene	3.30	39	472371	6.105	ppbv # 31
17) tert-Butyl alcohol	4.30	59	276296	2.290	ppbv # 72
19) Isopropyl Alcohol	3.97	45	1222856	18.395	ppbv # 93
20) Methylene Chloride	4.34	84	831617	8.362	ppbv 98
21) Allyl Chloride	4.30	41	62396	0.642	ppbv # 73
23) Vinyl Acetate	5.05	43	734468	4.049	ppbv # 1
25) Ethyl Acetate	5.68	43	2549825	8.163	ppbv # 76
26) Hexane	5.68	57	3761084	21.519	ppbv # 47
27) Carbon Disulfide	4.55	76	238565	1.677	ppbv 97
28) Methyl tert-Butyl Ether	5.02	73	8610	0.046	ppbv # 53
29) Chloroform	5.75	83	101662	0.459	ppbv 90
30) Cyclohexane	7.12	84	61564	0.457	ppbv # 81
34) 2-Butanone	5.23	43	4369794	34.924	ppbv 98
36) Benzene	6.89	78	236183	0.728	ppbv 97
37) 1,2-Dichloroethane	6.30	62	8528	0.057	ppbv 96
39) 1,2-Dichloropropane	7.17	63	786069	6.505	ppbv # 29
40) 1,4-Dioxane	7.84	88	9628	0.277	ppbv # 1
41) Tetrahydrofuran	6.03	42	7115814	102.262	ppbv 99
44) 2,2,4-Trimethylpentane	7.86	57	48969	0.091	ppbv # 1
50) 4-Methyl-2-Pentanone	8.73	43	278473	1.453	ppbv 97
51) 2-Hexanone	10.11	43	256687	2.947	ppbv # 83
52) Tetrachloroethene	11.21	164	669682	4.792	ppbv 99
53) Toluene	9.80	91	757446	1.977	ppbv 99
58) Ethyl Benzene	12.70	91	201749	0.449	ppbv 99
59) m/p-Xylene	12.95	91	497245	1.315	ppbv 98
60) o-Xylene	13.68	91	215257	0.626	ppbv 91
61) Styrene	13.51	104	24948	0.132	ppbv # 80
62) Isopropylbenzene	14.65	105	25927	0.052	ppbv # 80
64) n-propylbenzene	15.55	120	6865	0.053	ppbv # 1
65) tert-Butylbenzene	16.74	119	22145	0.048	ppbv # 33
66) Benzyl Chloride	16.97	91	1750	0.098	ppbv # 60

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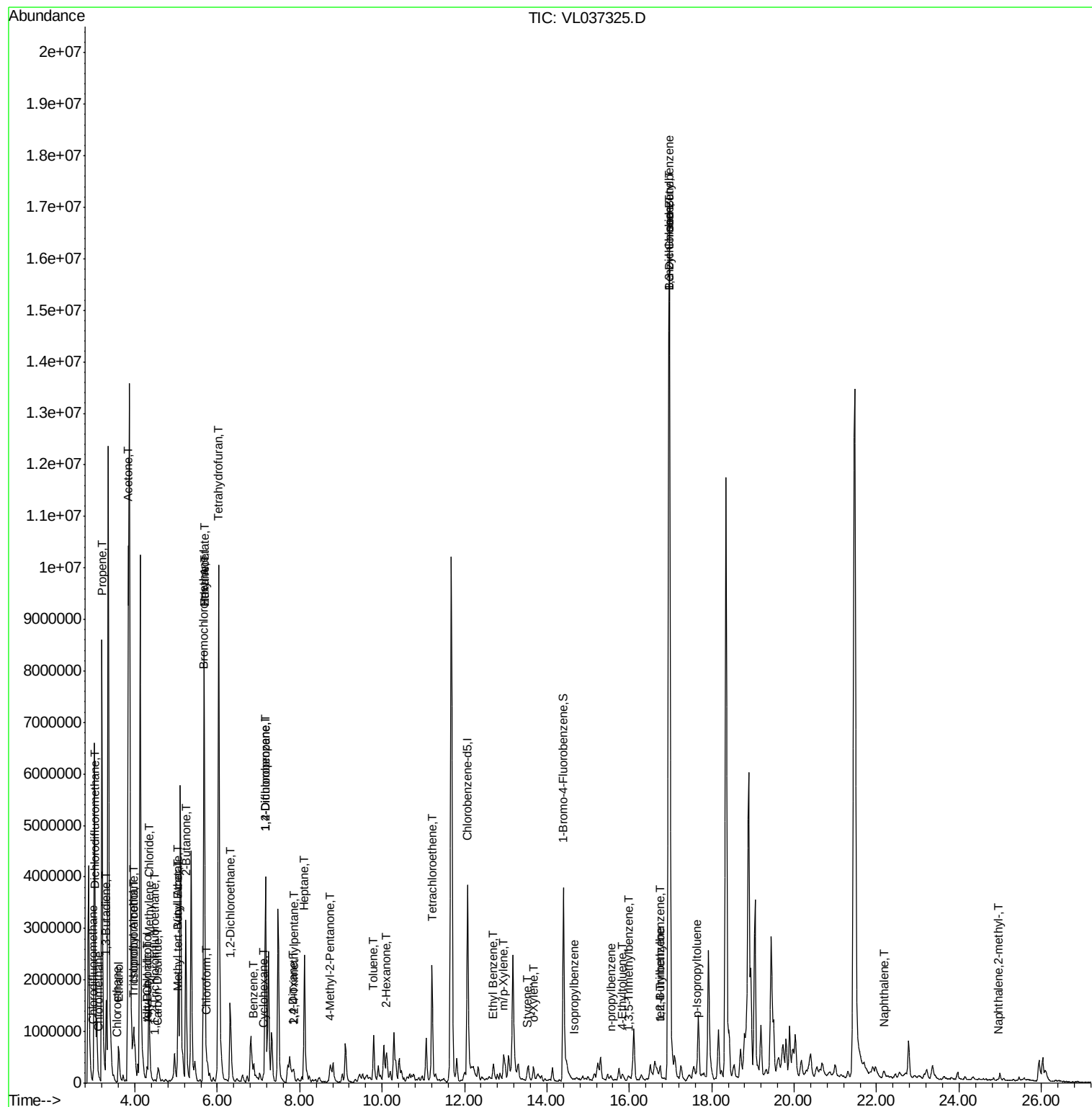
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) sec-Butylbenzene	16.95	105	26277	0.042	ppbv	93
69) p-Isopropyltoluene	17.64	119	17536	0.034	ppbv #	28
72) 4-Ethyltoluene	15.82	105	62500	0.151	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.99	105	25959	0.070	ppbv	93
74) 1,2,4-Trimethylbenzene	16.75	105	69507	0.175	ppbv #	74
75) 1,3-Dichlorobenzene	16.98	146	57621	0.235	ppbv #	1
79) Naphthalene	22.17	128	19757	0.054	ppbv	98
80) Naphthalene,2-methyl-	24.96	142	11849	0.200	ppbv #	70

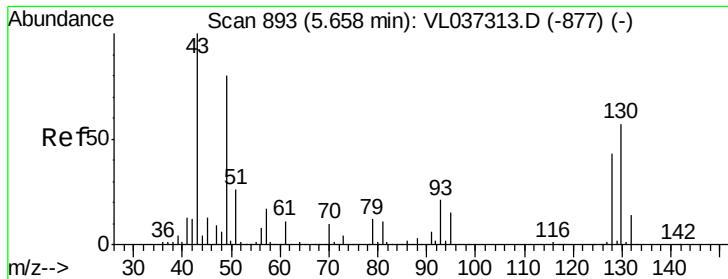
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :
MSVOA_L
ClientSampleId :

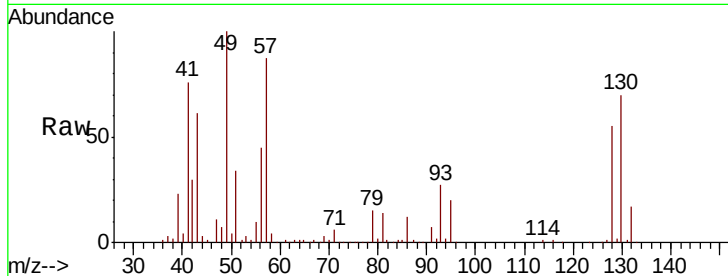
Tot Ion: 49 Resp: 1105797

Ion Ratio Lower Upper

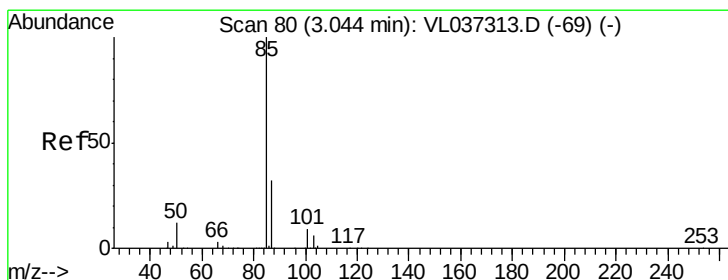
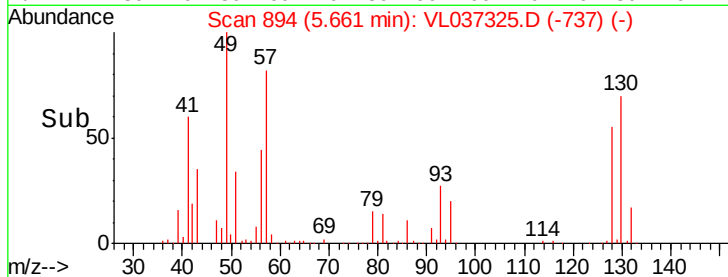
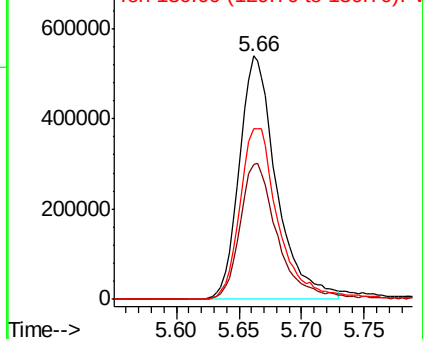
49 100

128 57.7 29.8 89.5

130 74.9 37.5 112.7



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: 0.164 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL037325.D

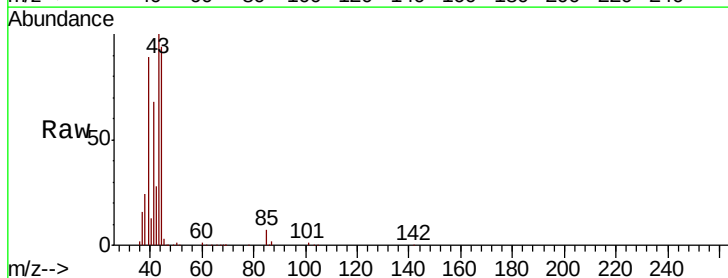
Acq: 5 Aug 2021 2:36

Tgt Ion: 85 Resp: 36814

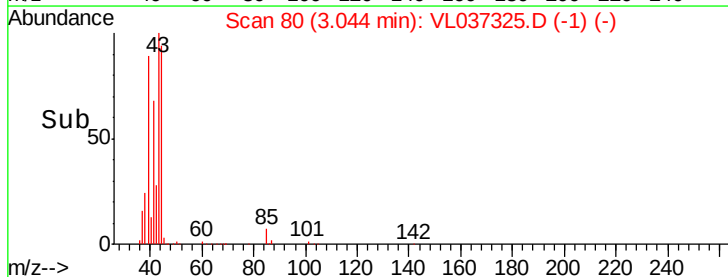
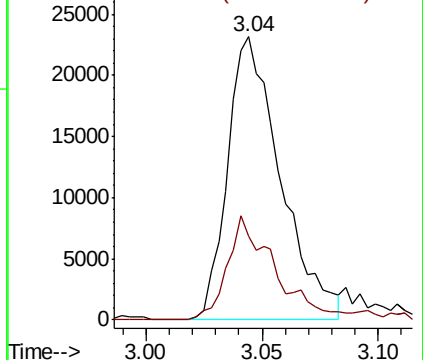
Ion Ratio Lower Upper

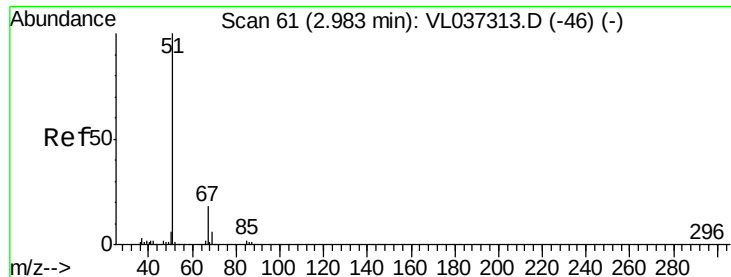
85 100

87 29.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

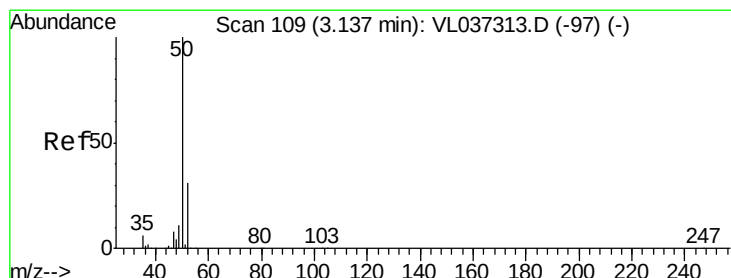
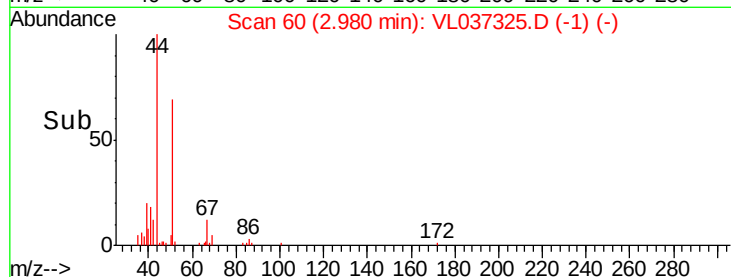
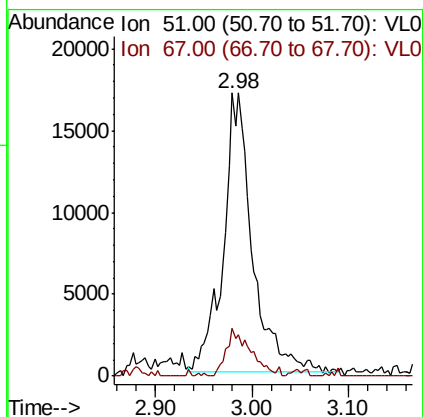
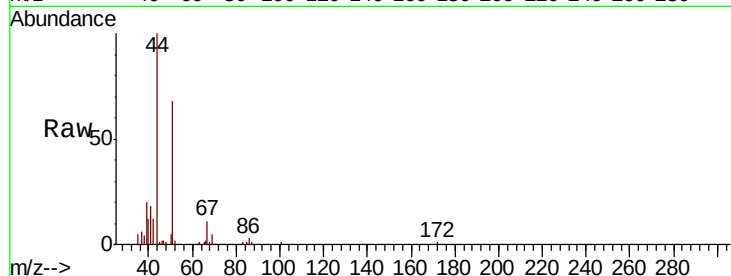




#3
 Chlorodifluoromethane
 Concen: 0.158 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. -0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

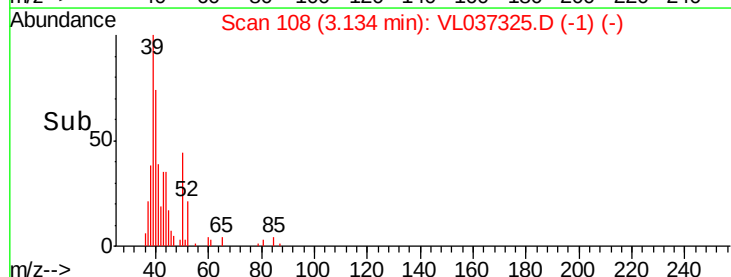
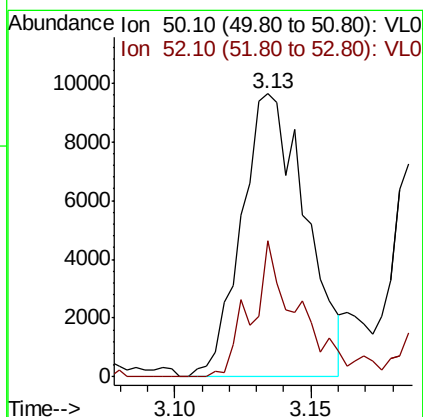
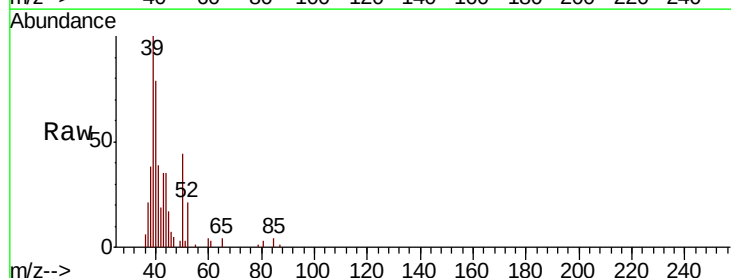
Instrument :
 MSVOA_L
 ClientSampleId :

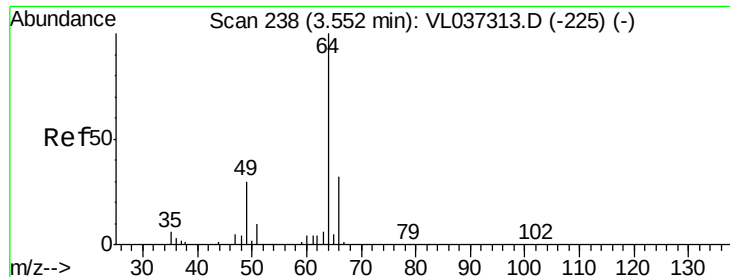
Tot Ion: 51 Resp: 35512
 Ion Ratio Lower Upper
 51 100
 67 14.3 14.2 21.2



#4
 Chloromethane
 Concen: 0.195 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

Tgt Ion: 50 Resp: 15740
 Ion Ratio Lower Upper
 50 100
 52 48.1 25.1 37.7#





#7

Chloroethane

Concen: 0.073 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

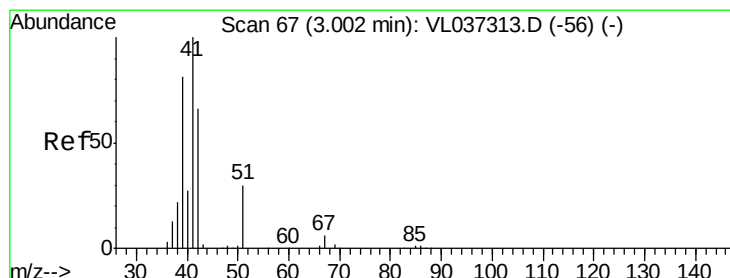
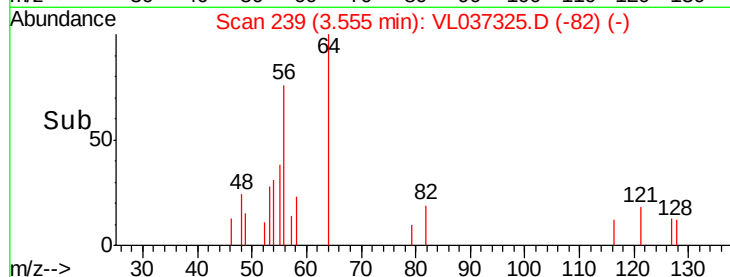
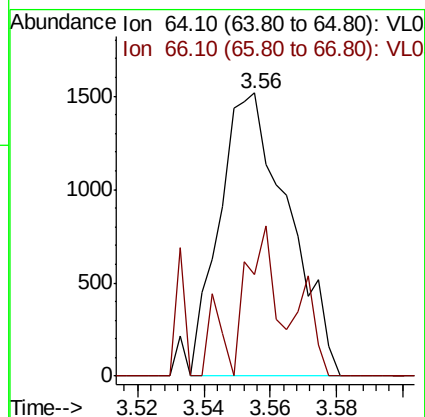
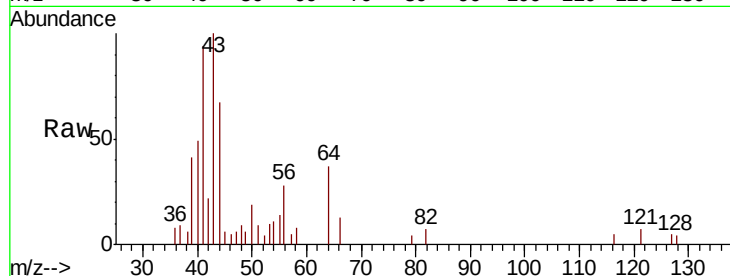
ClientSampleId :

Tot Ion: 64 Resp: 2199

Ion Ratio Lower Upper

64 100

66 35.8 25.5 38.3



#9

Propene

Concen: 36.145 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.20 min

Lab File: VL037325.D

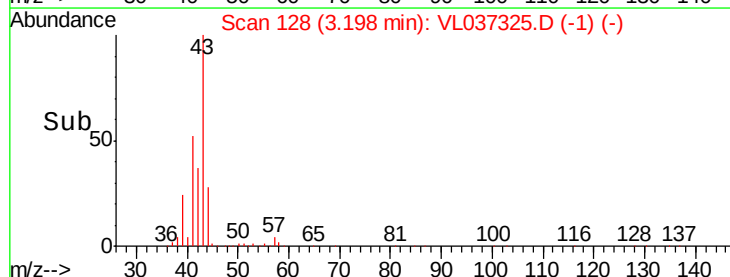
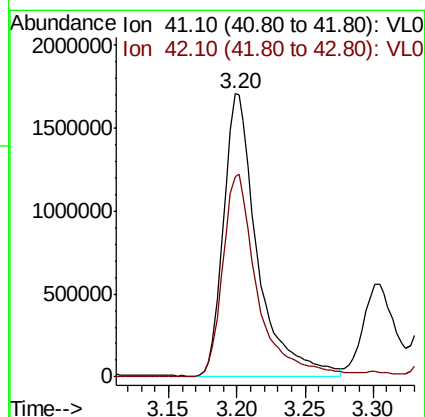
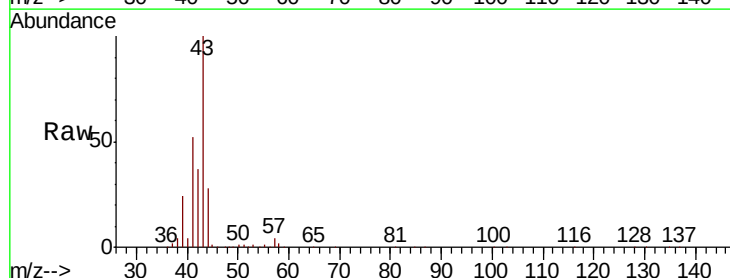
Acq: 5 Aug 2021 2:36

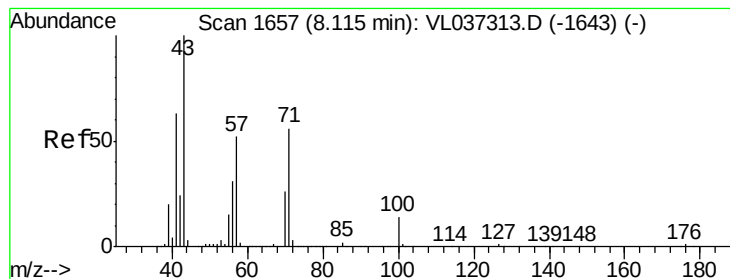
Tgt Ion: 41 Resp: 2938442

Ion Ratio Lower Upper

41 100

42 73.5 53.8 80.8





#10

Heptane

Concen: 6.368 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

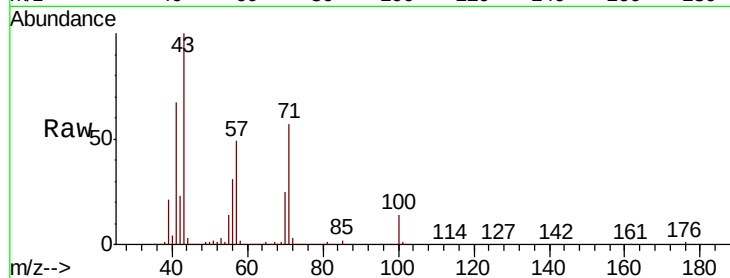
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1209163

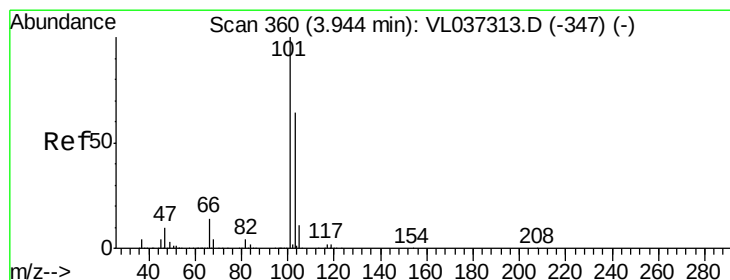
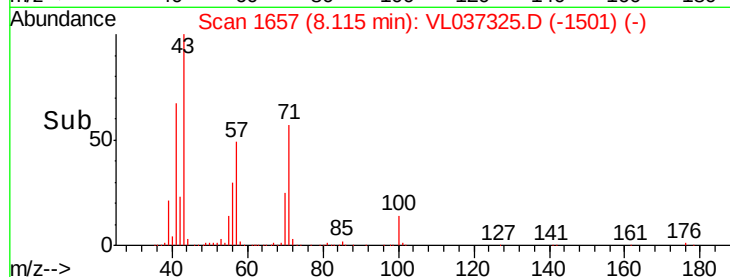
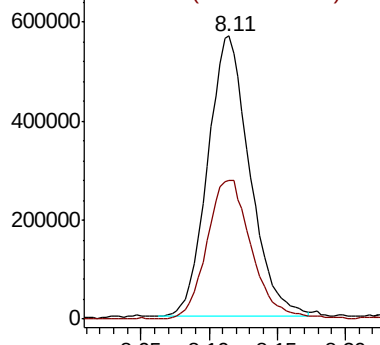
Ion Ratio Lower Upper

43 100

57 53.7 42.4 63.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.292 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL037325.D

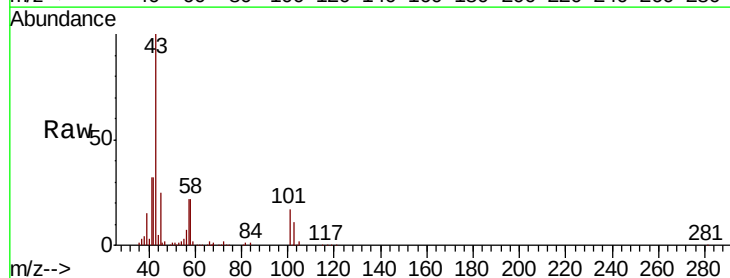
Acq: 5 Aug 2021 2:36

Tgt Ion: 101 Resp: 60225

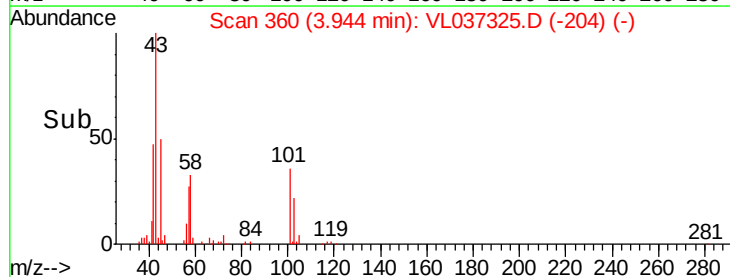
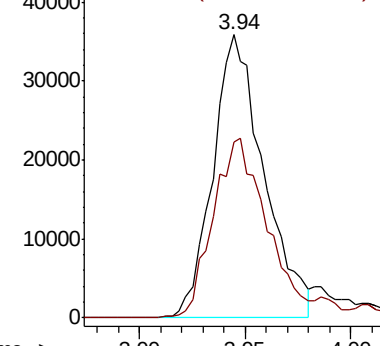
Ion Ratio Lower Upper

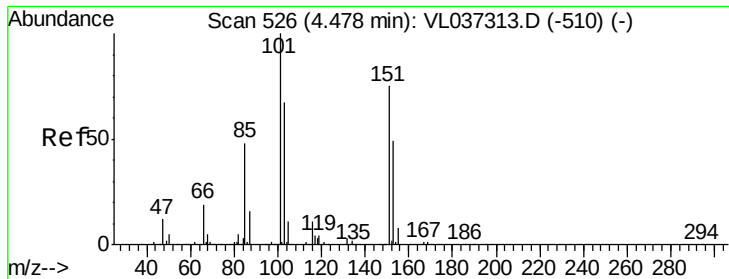
101 100

103 62.2 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.01 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

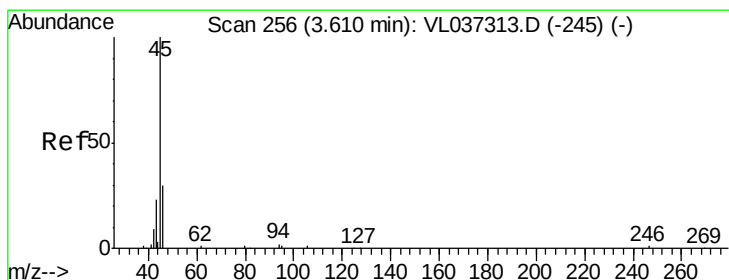
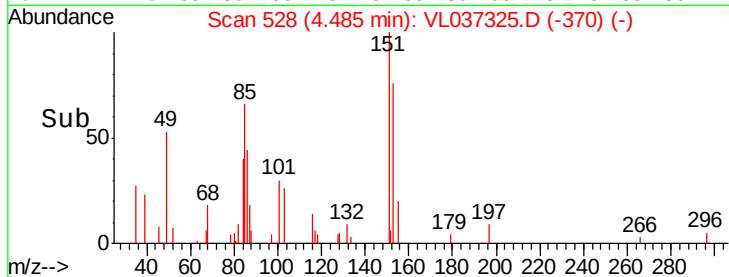
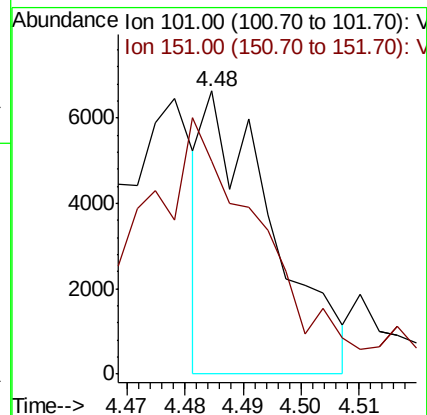
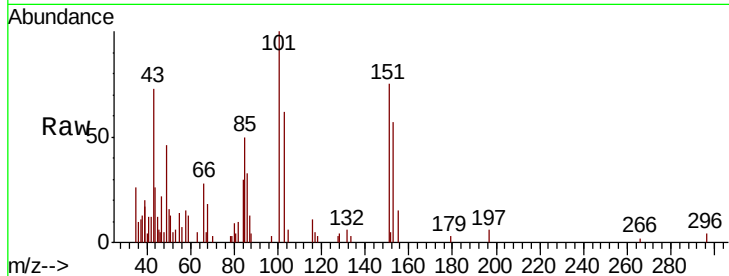
ClientSampleId :

Tot Ion:101 Resp: 5409

Ion Ratio Lower Upper

101 100

151 186.9 60.6 91.0#



#13

Ethanol

Concen: 85.916 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL037325.D

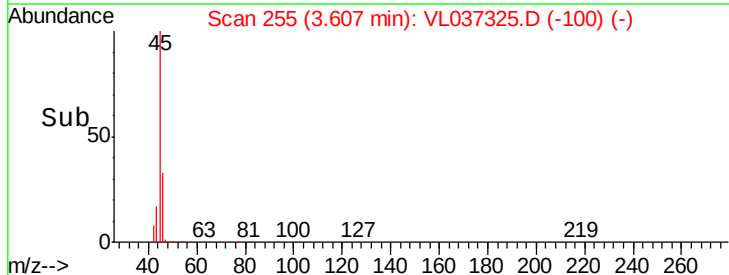
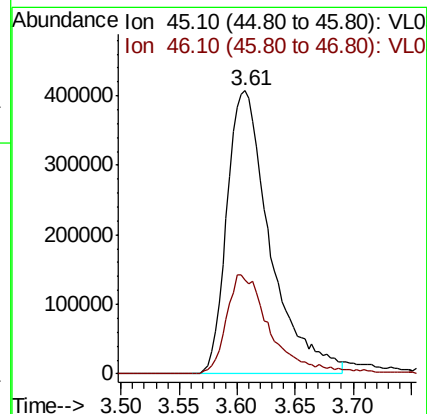
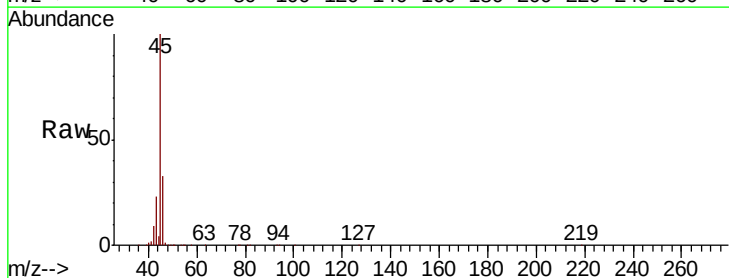
Acq: 5 Aug 2021 2:36

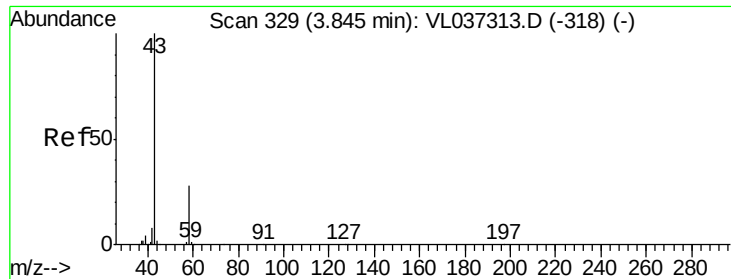
Tgt Ion: 45 Resp: 1052040

Ion Ratio Lower Upper

45 100

46 36.8 16.6 66.4





#15

Acetone

Concen: 150.327 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

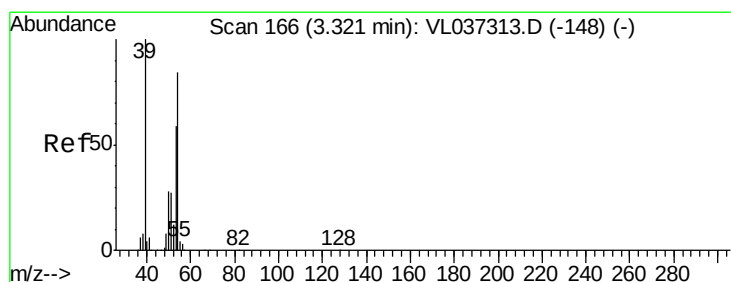
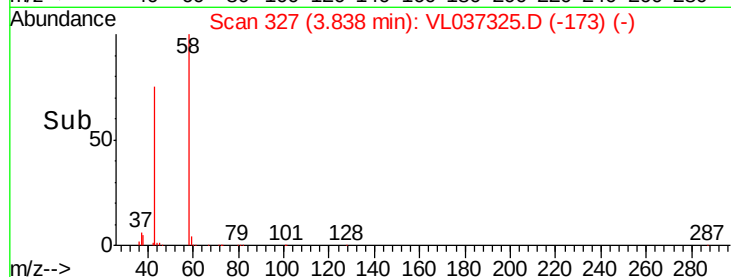
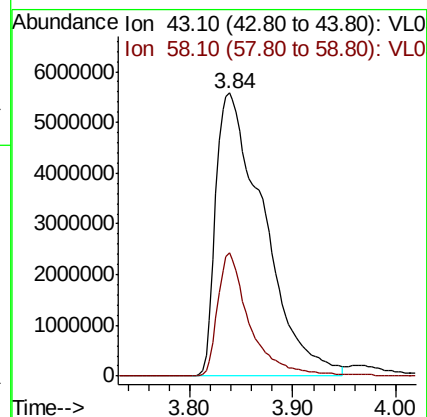
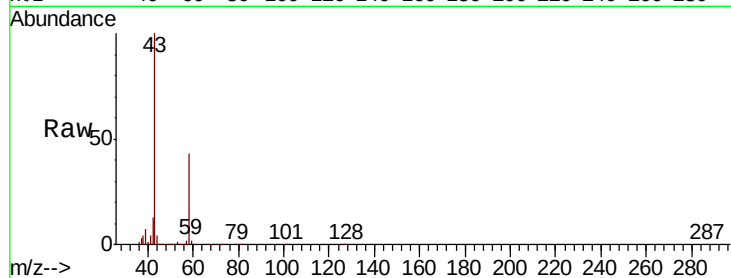
ClientSampleId :

Tot Ion: 43 Resp:18056825

Ion Ratio Lower Upper

43 100

58 29.6 25.3 37.9



#16

1,3-Butadiene

Concen: 6.105 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL037325.D

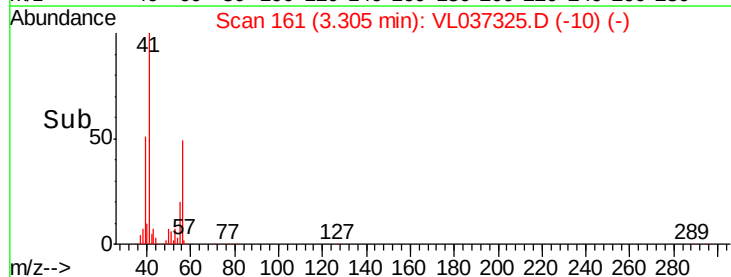
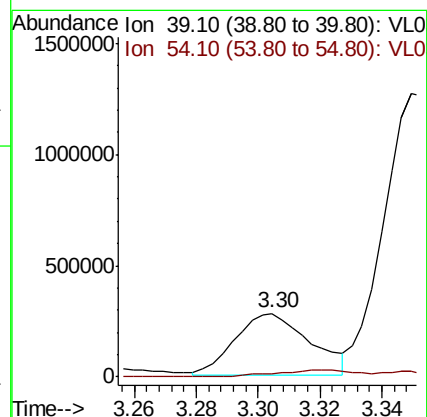
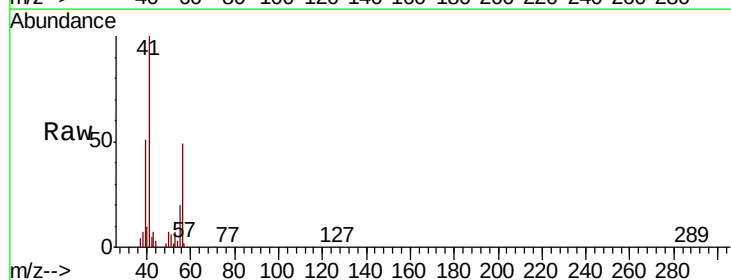
Acq: 5 Aug 2021 2:36

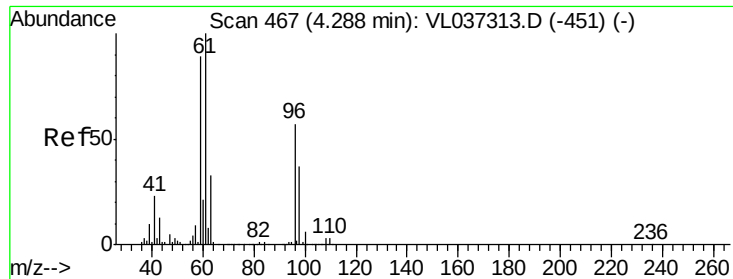
Tgt Ion: 39 Resp: 472371

Ion Ratio Lower Upper

39 100

54 20.4 66.1 99.1#



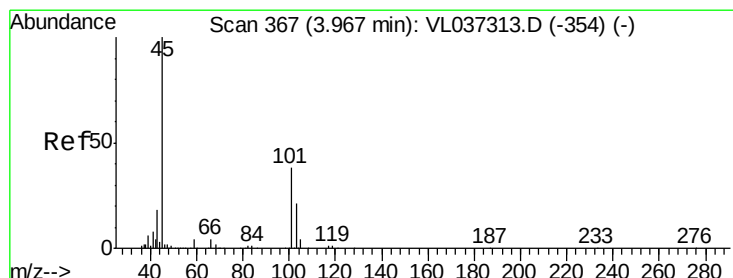
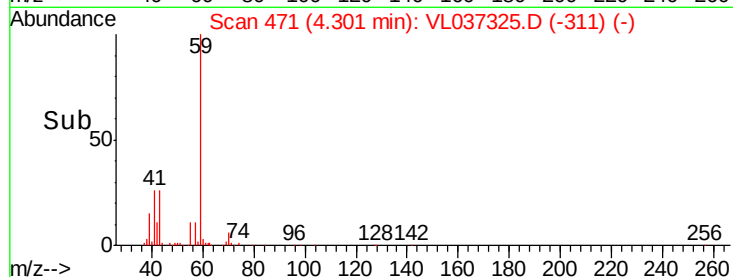
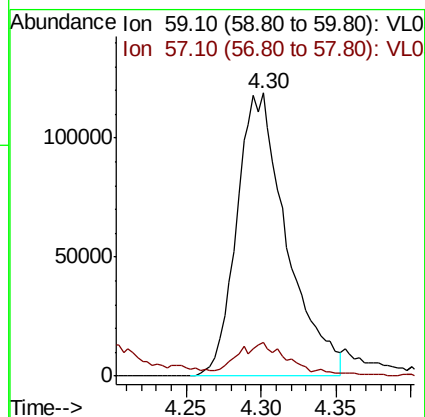
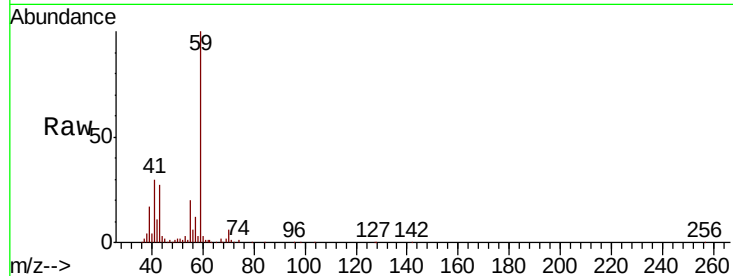


#17

tert-Butyl alcohol
Concen: 2.290 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Instrument :
MSVOA_L
ClientSampleId :

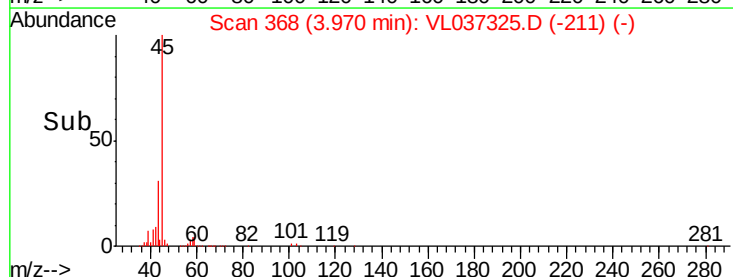
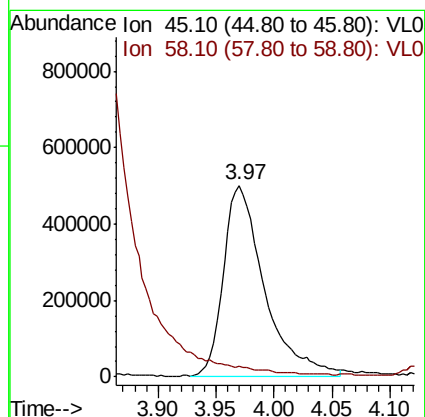
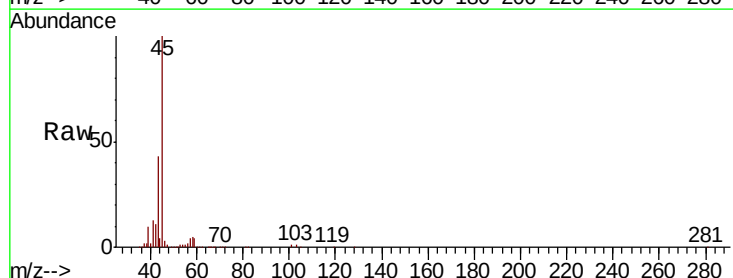
Tot Ion: 59 Resp: 276296
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

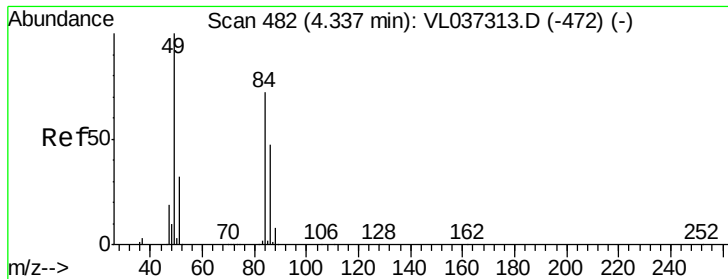


#19

Isopropyl Alcohol
Concen: 18.395 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 45 Resp: 1222856
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8#

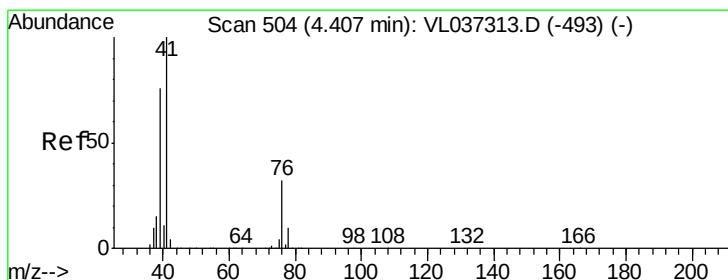
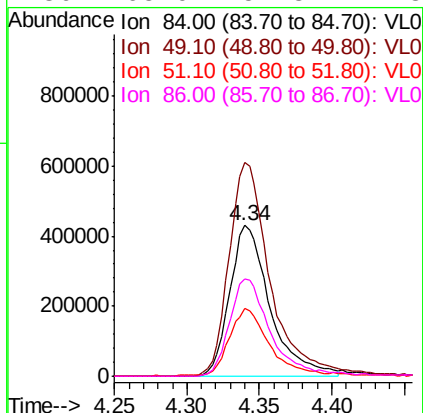
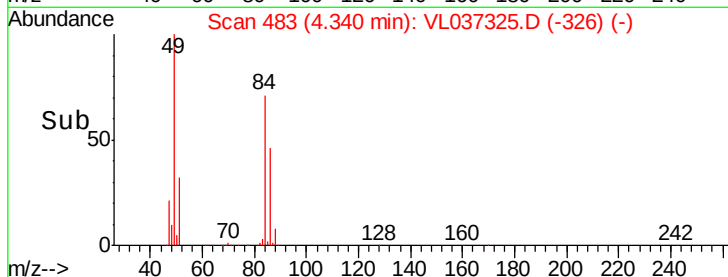
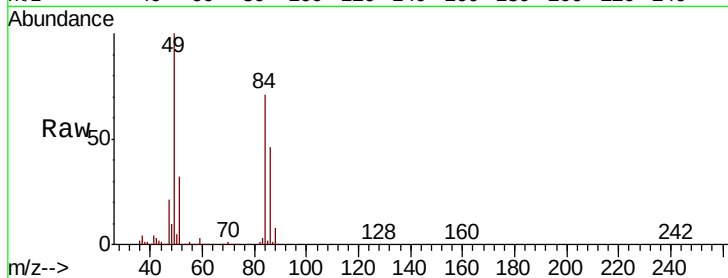




#20
Methylene Chloride
Concen: 8.362 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

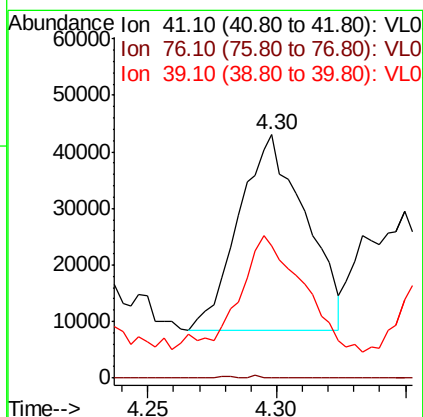
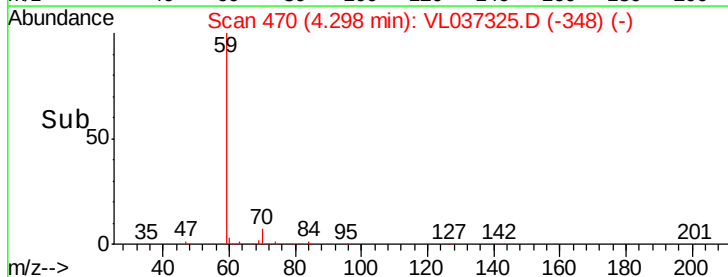
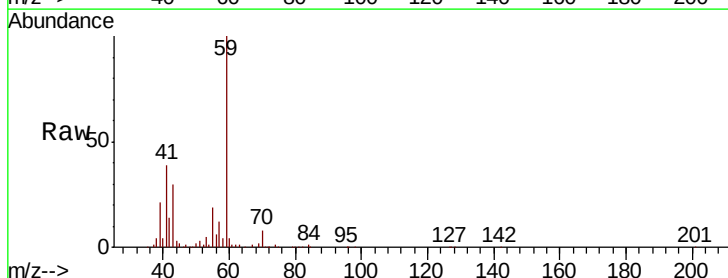
Instrument :
MSVOA_L
ClientSampleId :

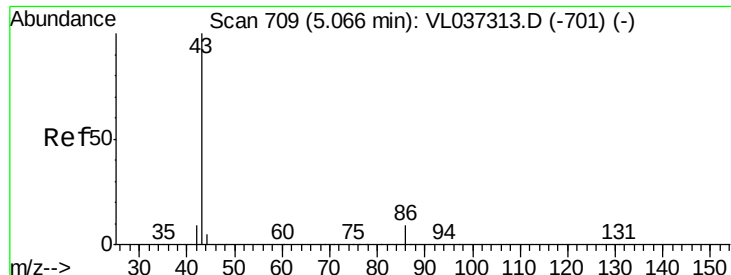
Tot Ion:	84	Resp:	831617
Ion	Ratio	Lower	Upper
84	100		
49	141.5	110.4	165.6
51	44.3	35.8	53.6
86	65.0	51.8	77.8



#21
Allyl Chloride
Concen: 0.642 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.11 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion:	41	Resp:	62396
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.7	38.5#
39	84.9	59.0	88.4





#23

Vinyl Acetate

Concen: 4.049 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.02 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 734468

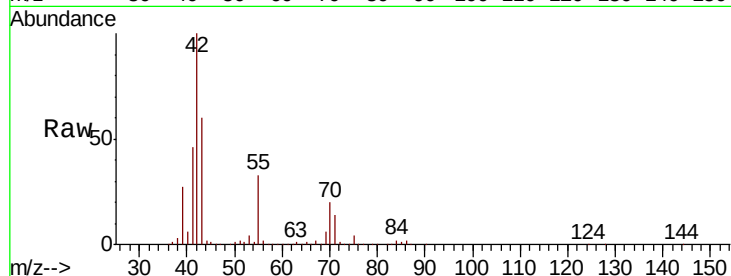
Ion Ratio Lower Upper

43 100

86 3.7 6.2 9.2#

42 169.2 7.7 11.5#

44 2.8 3.7 5.5#

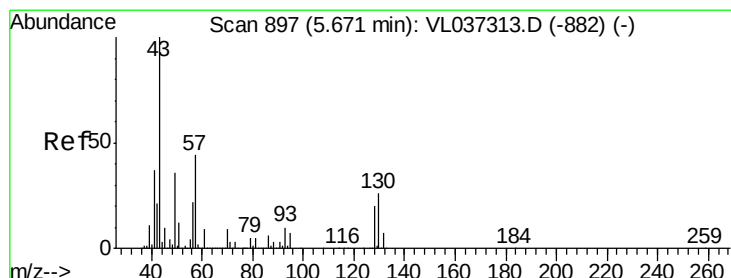
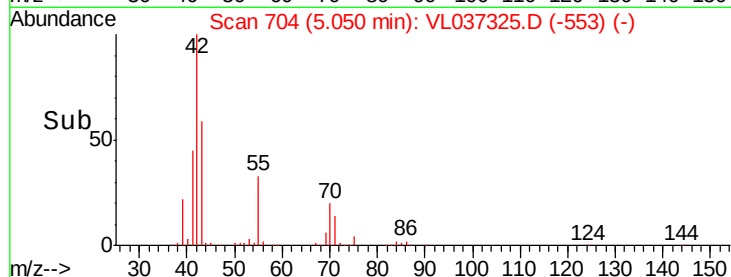
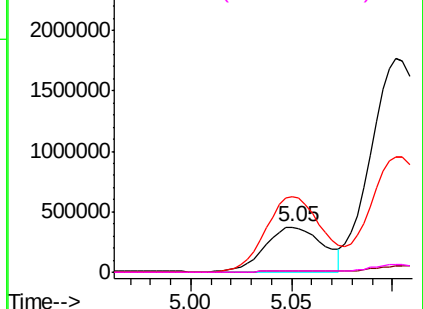


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.163 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Tgt Ion: 43 Resp: 2549825

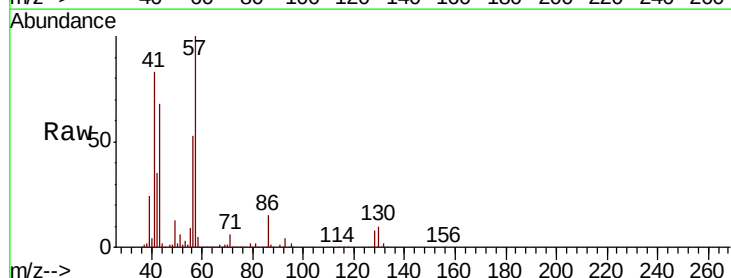
Ion Ratio Lower Upper

43 100

45 0.4 7.8 11.8#

61 0.3 8.6 12.8#

70 1.7 5.9 8.9#

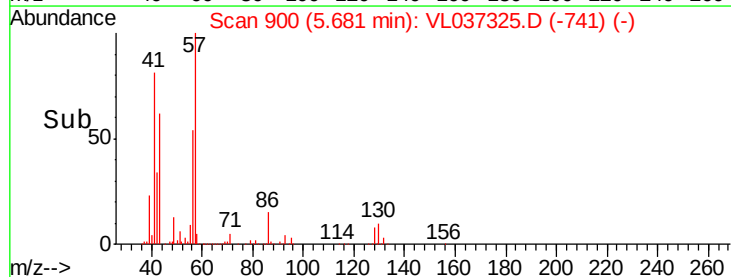
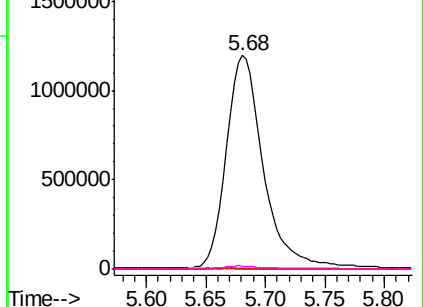


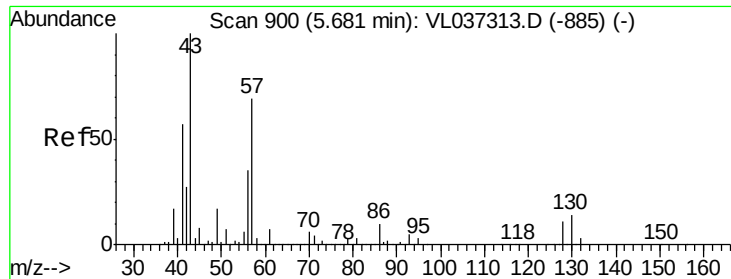
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



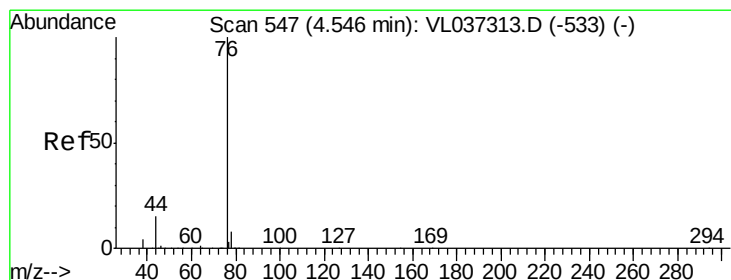
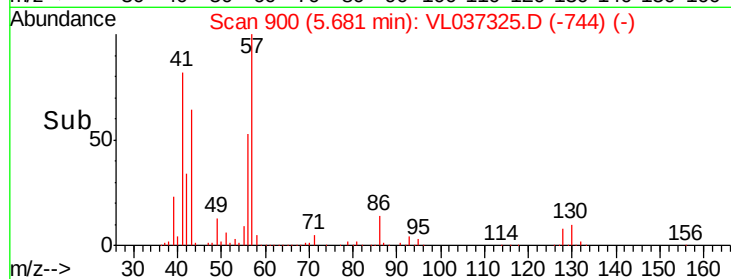
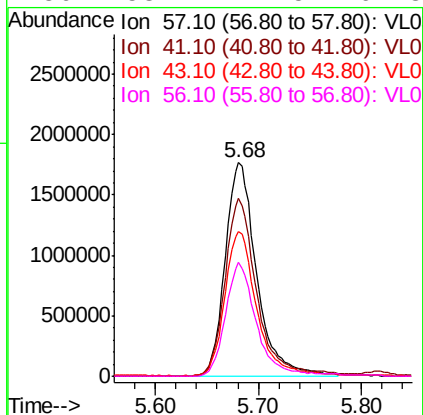
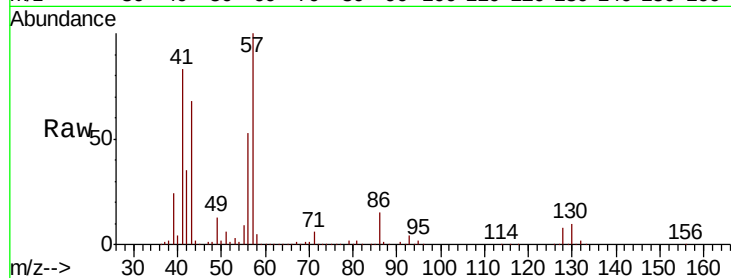


#26
Hexane
Concen: 21.519 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 3761084

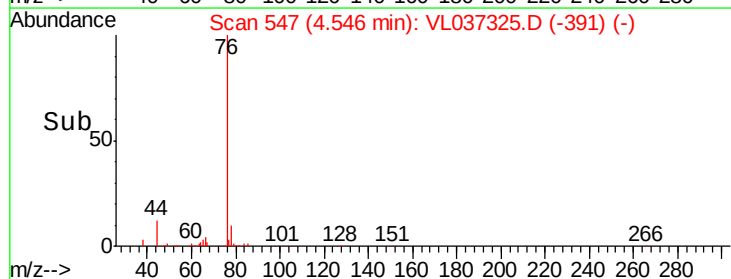
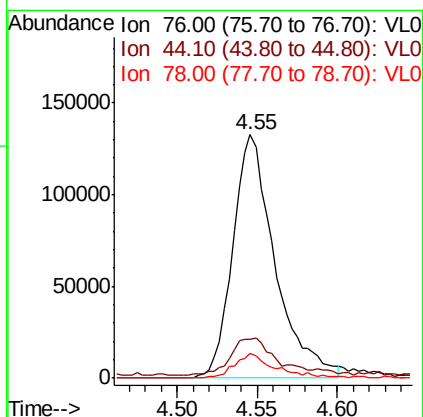
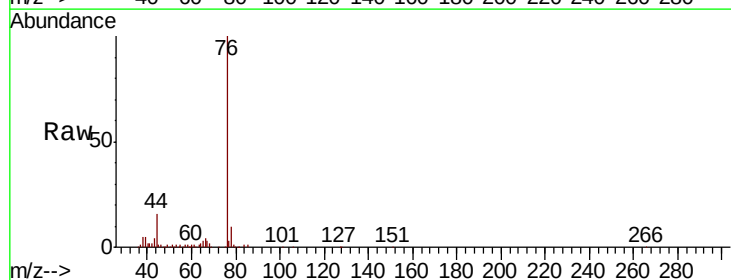
Ion	Ratio	Lower	Upper
57	100		
41	84.7	67.5	101.3
43	69.3	163.0	244.4#
56	53.1	41.5	62.3

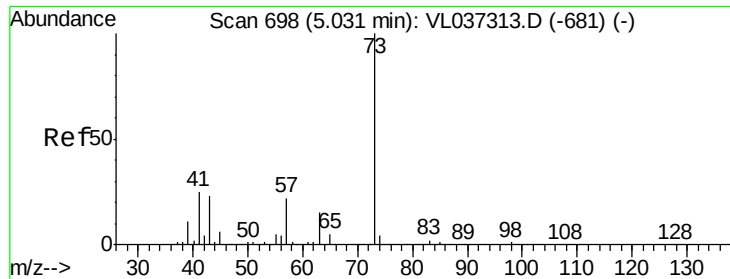


#27
Carbon Disulfide
Concen: 1.677 ppbv
RT: 4.55 min Scan# 547
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 76 Resp: 238565

Ion	Ratio	Lower	Upper
76	100		
44	18.6	13.1	19.7
78	10.1	8.0	12.0

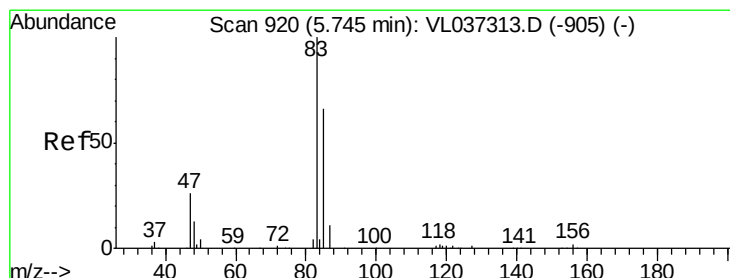
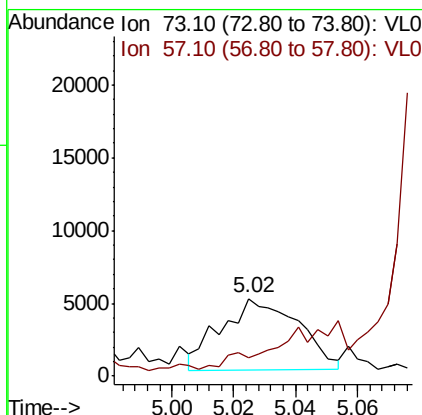
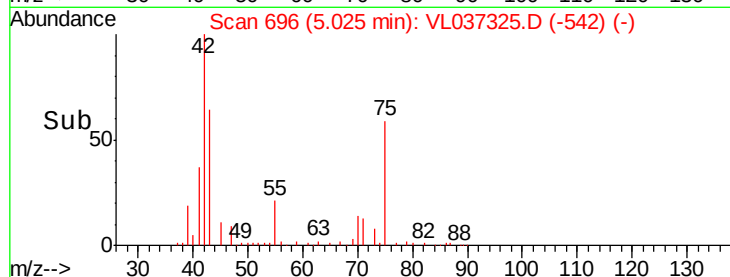
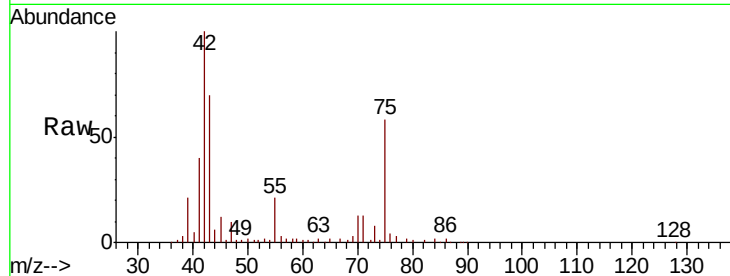




#28
Methyl tert-Butyl Ether
Concen: 0.046 ppbv
RT: 5.02 min Scan# 696
Delta R.T. -0.01 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

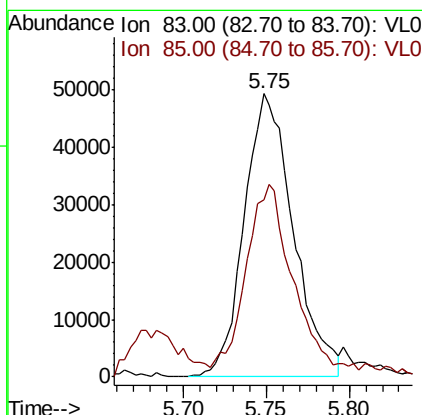
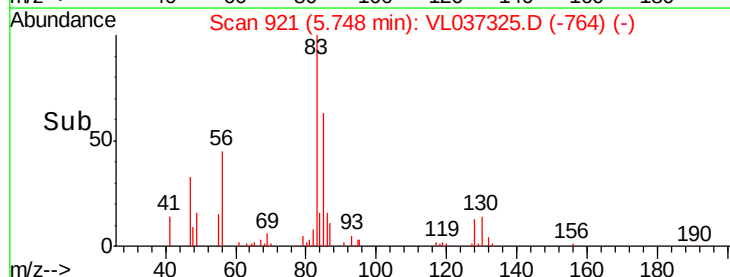
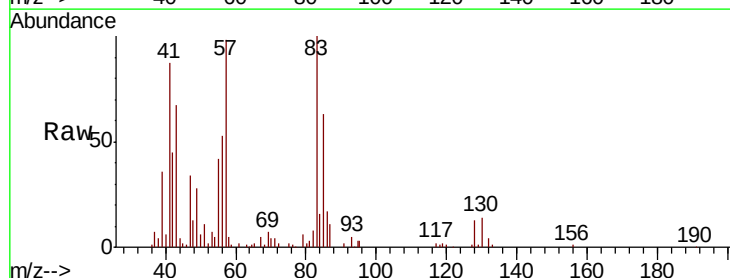
Instrument :
MSVOA_L
ClientSampleId :

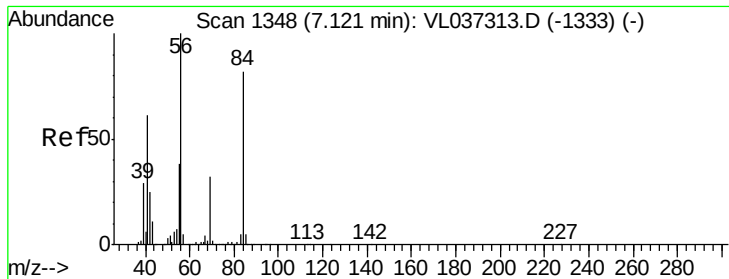
Tot Ion: 73 Resp: 8610
Ion Ratio Lower Upper
73 100
57 0.0 18.2 27.4#



#29
Chloroform
Concen: 0.459 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 83 Resp: 101662
Ion Ratio Lower Upper
83 100
85 58.1 52.6 79.0

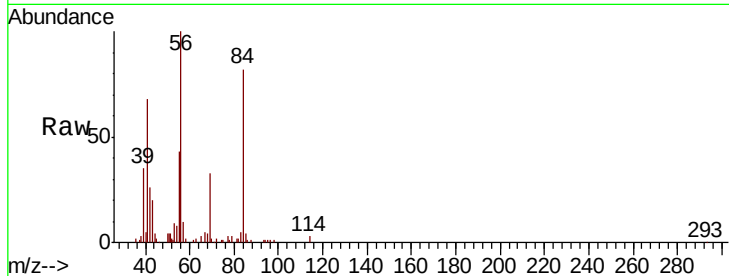




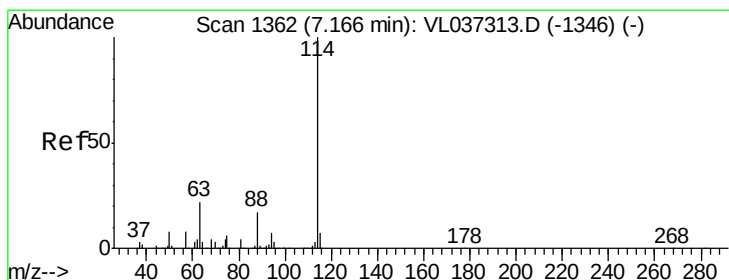
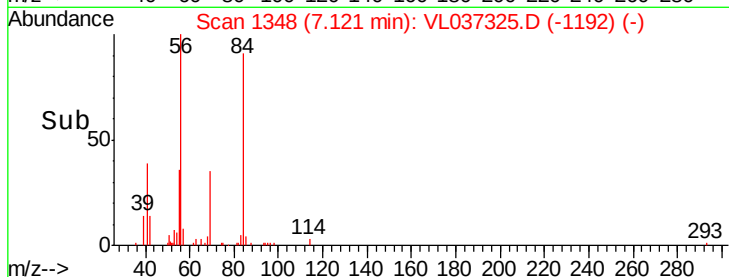
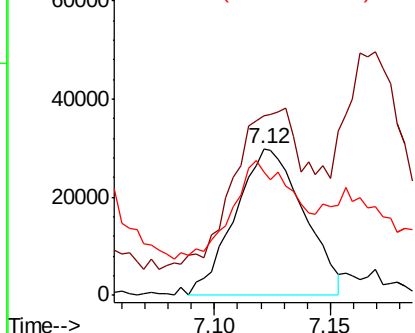
#30
Cyclohexane
Concen: 0.457 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 61564
Ion Ratio Lower Upper
84 100
56 110.7 105.2 157.8
41 58.8 61.3 91.9#

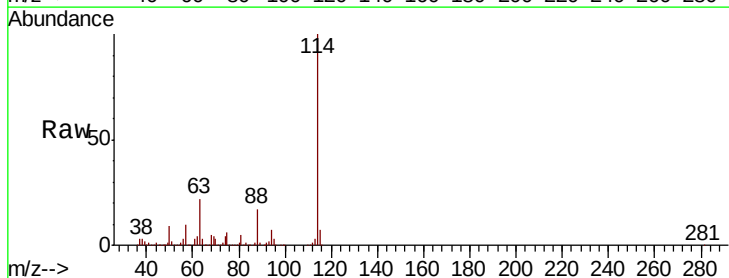


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

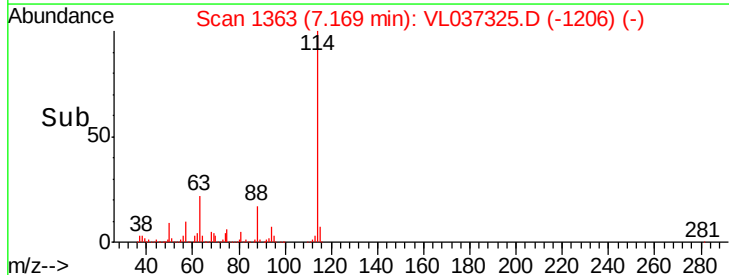
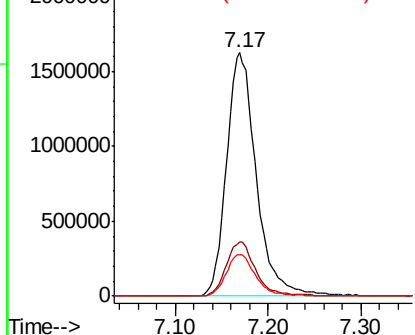


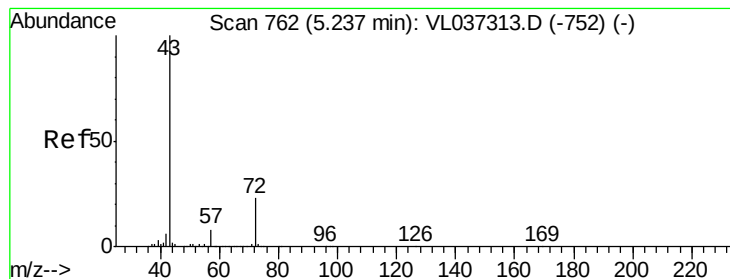
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 114 Resp: 3605754
Ion Ratio Lower Upper
114 100
63 22.6 18.1 27.1
88 17.2 13.8 20.8



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: 34.924 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

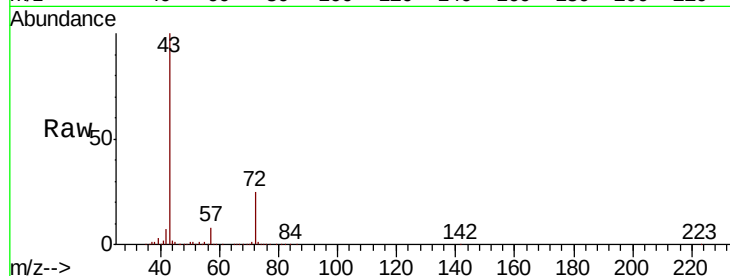
ClientSampled :

Tot Ion: 43 Resp: 4369794

Ion Ratio Lower Upper

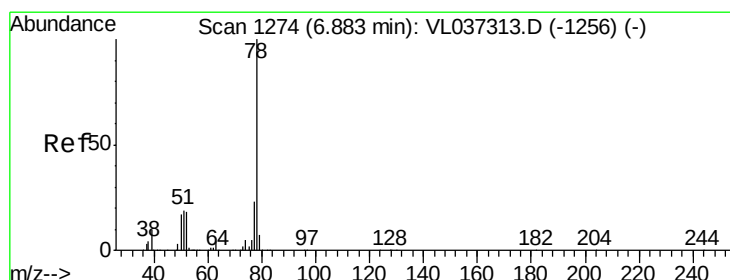
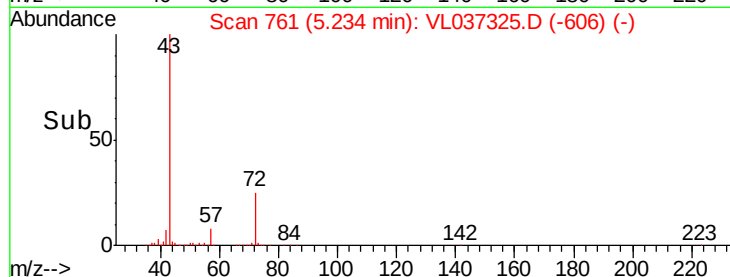
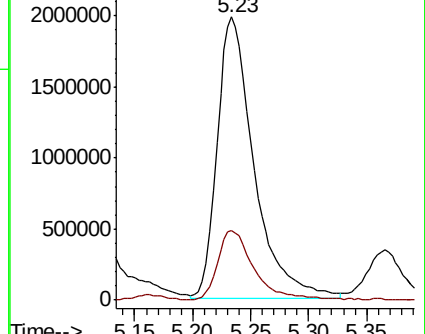
43 100

72 24.6 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.728 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

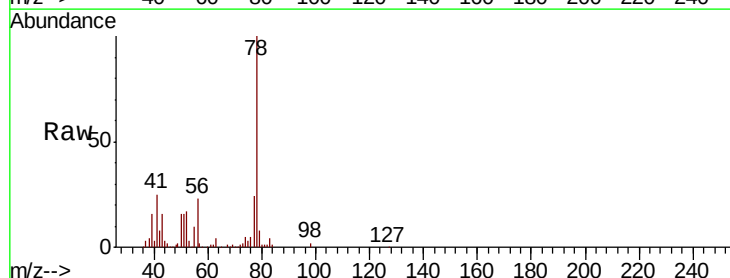
Tgt Ion: 78 Resp: 236183

Ion Ratio Lower Upper

78 100

77 22.9 18.7 28.1

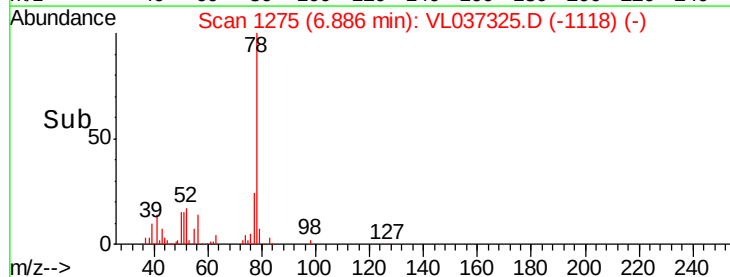
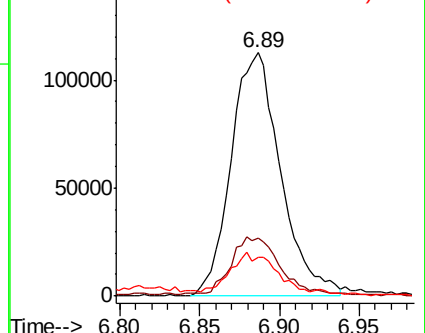
50 14.8 13.7 20.5

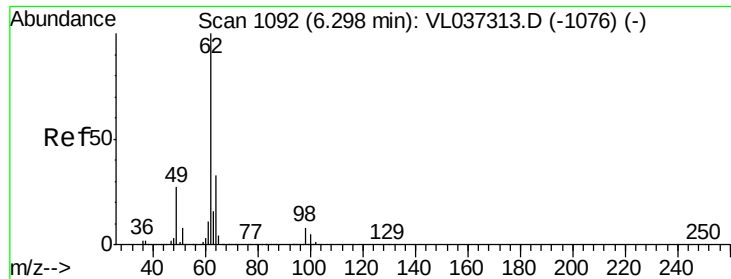


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

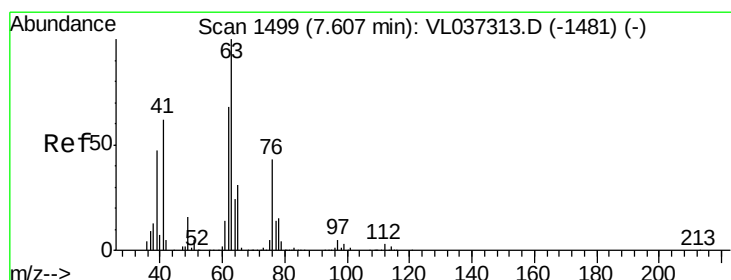
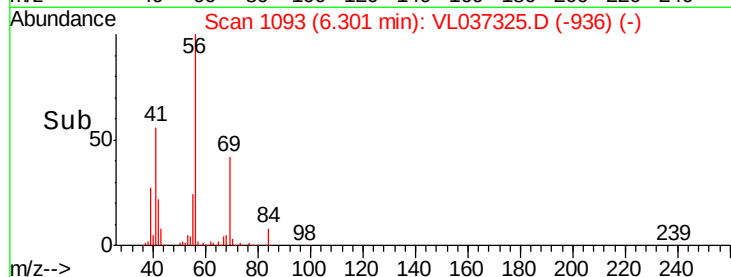
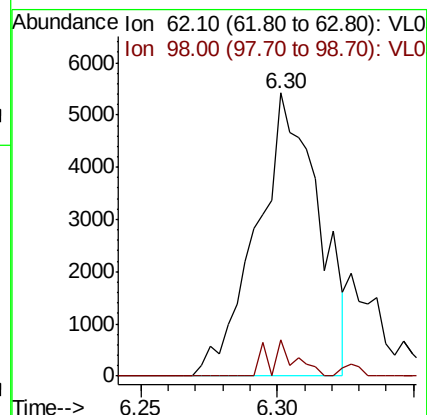
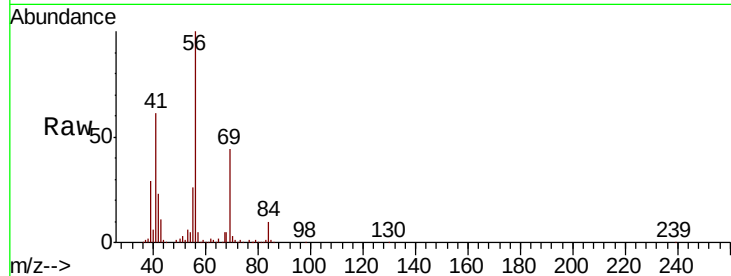




#37
 1,2-Dichloroethane
 Concen: 0.057 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

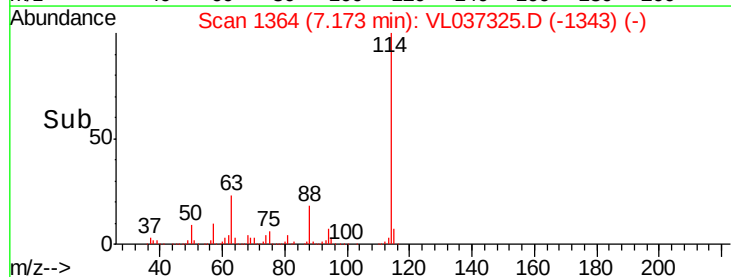
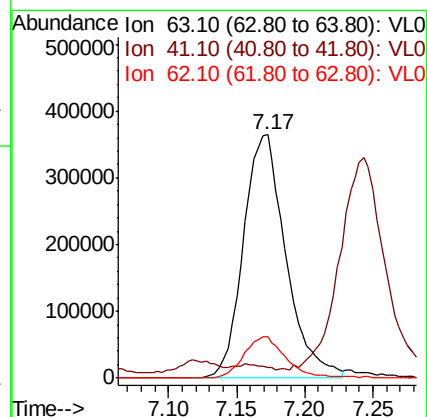
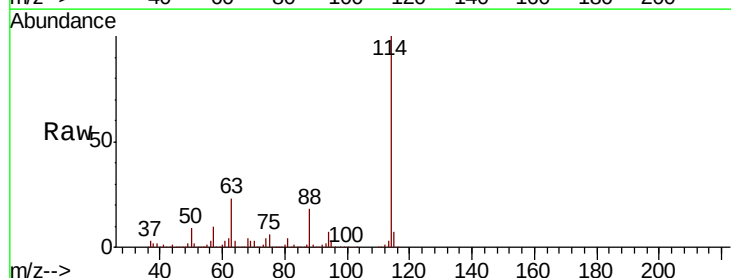
Instrument :
 MSVOA_L
 ClientSampleId :

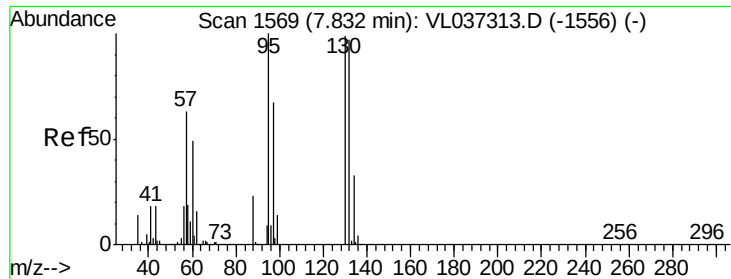
Tot Ion: 62 Resp: 8528
 Ion Ratio Lower Upper
 62 100
 98 6.5 6.3 9.5



#39
 1,2-Dichloropropane
 Concen: 6.505 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.43 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

Tgt Ion: 63 Resp: 786069
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.2 73.8#
 62 17.1 54.2 81.4#

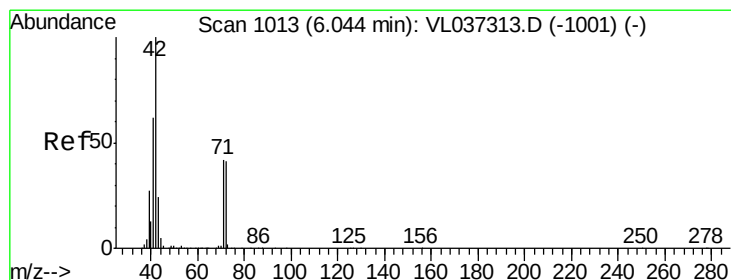
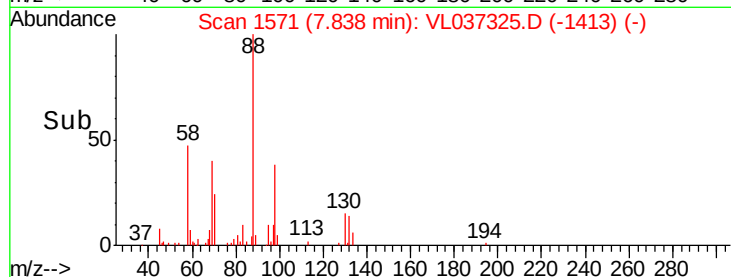
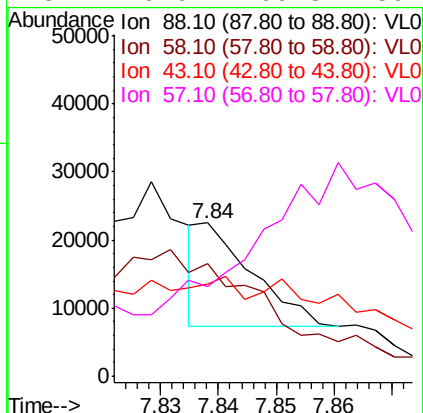
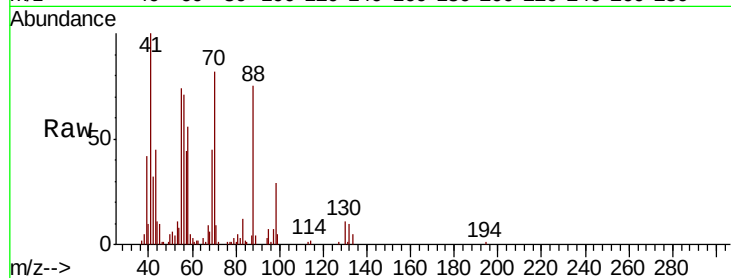




#40
1,4-Dioxane
Concen: 0.277 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

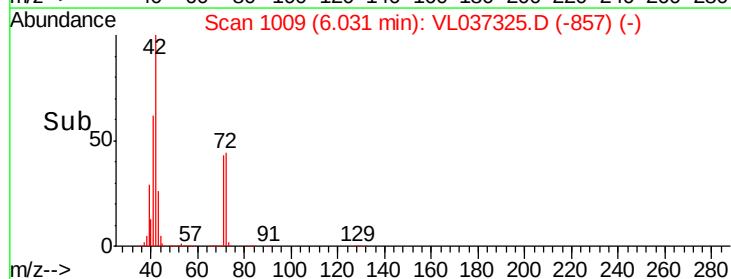
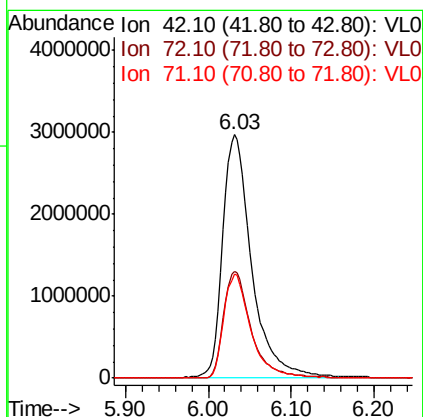
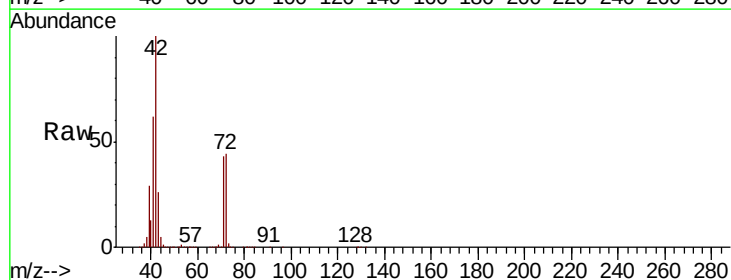
Instrument :
MSVOA_L
ClientSampleId :

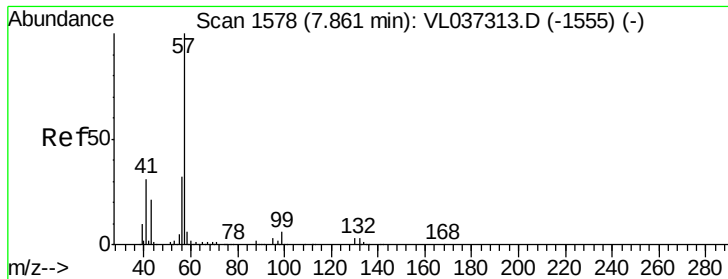
Tot Ion: 88 Resp: 9628
Ion Ratio Lower Upper
88 100
58 0.0 117.5 176.3#
43 0.0 271.0 406.4#
57 0.0 1260.8 1891.2#



#41
Tetrahydrofuran
Concen: 102.262 ppbv
RT: 6.03 min Scan# 1009
Delta R.T. -0.01 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 42 Resp: 7115814
Ion Ratio Lower Upper
42 100
72 42.7 33.6 50.4
71 41.0 33.0 49.4

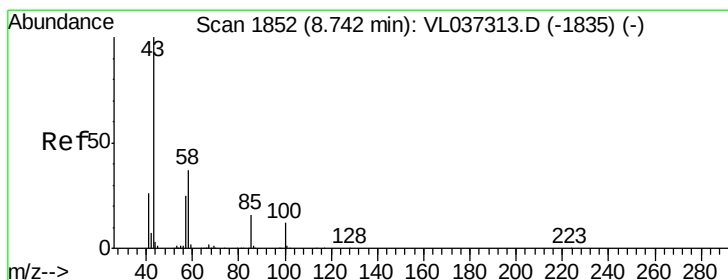
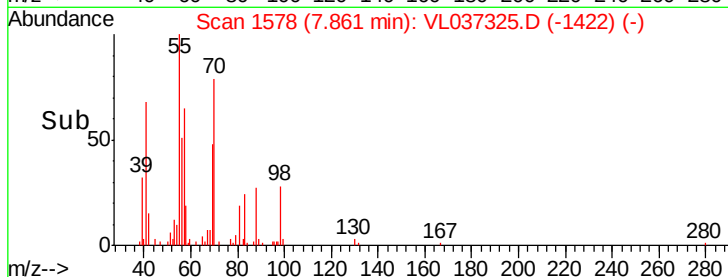
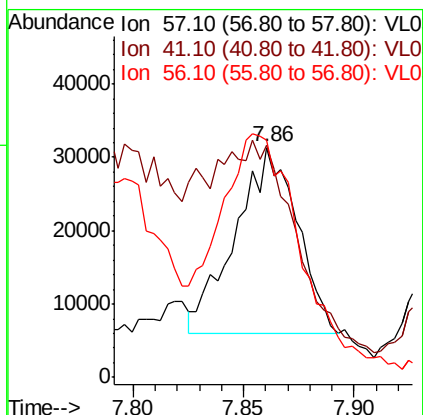
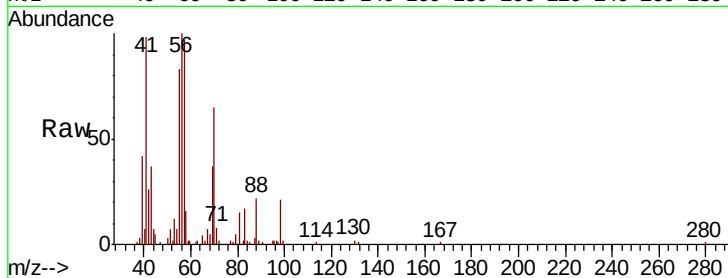




#44
 2,2,4-Trimethylpentane
 Concen: 0.091 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

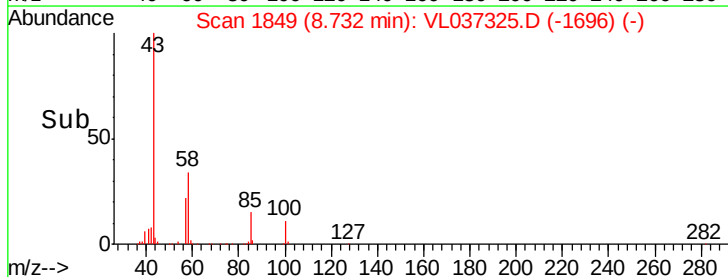
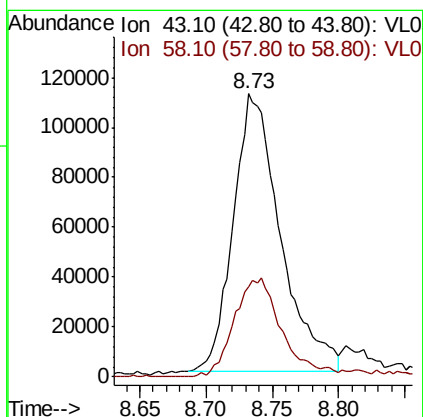
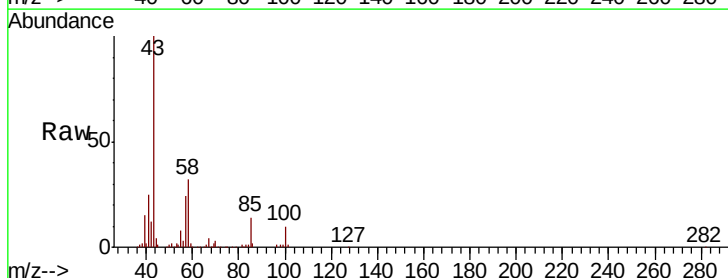
Instrument :
 MSVOA_L
 ClientSampleId :

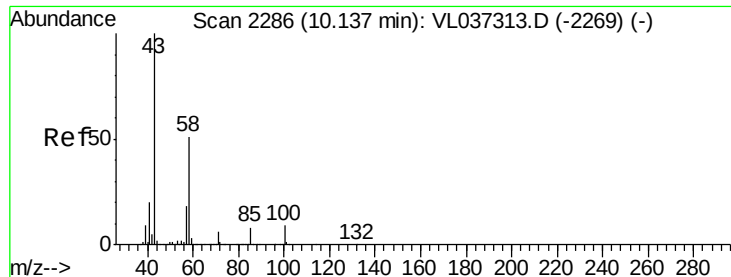
Tot Ion: 57 Resp: 48969
 Ion Ratio Lower Upper
 57 100
 41 189.0 24.3 36.5#
 56 162.3 25.0 37.6#



#50
 4-Methyl-2-Pentanone
 Concen: 1.453 ppbv
 RT: 8.73 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

Tgt Ion: 43 Resp: 278473
 Ion Ratio Lower Upper
 43 100
 58 36.7 31.0 46.4

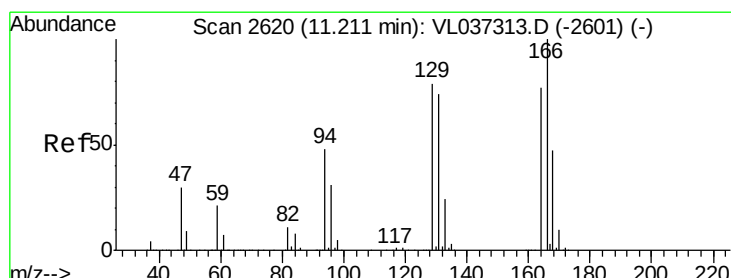
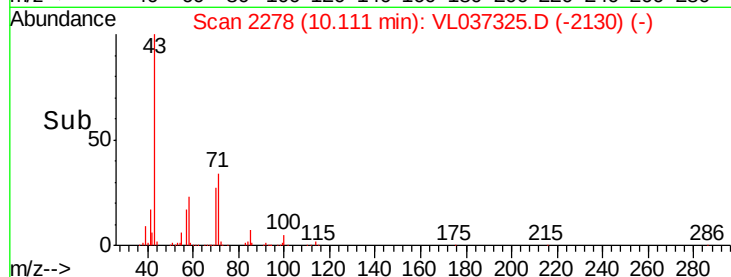
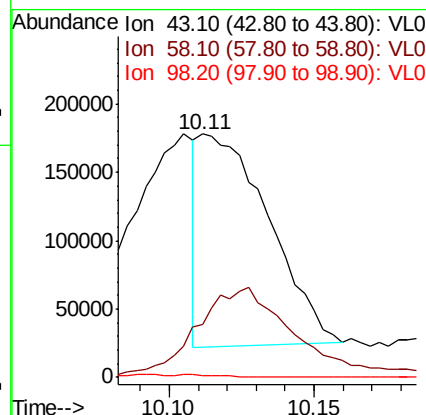
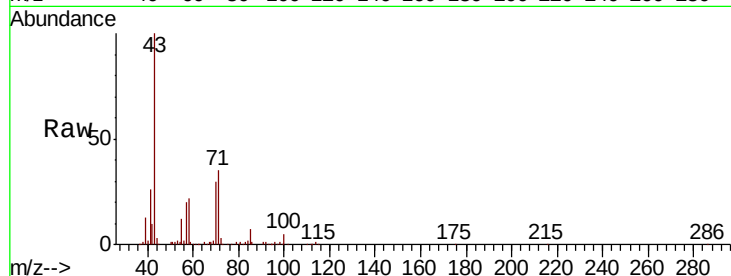




#51
2-Hexanone
Concen: 2.947 ppbv
RT: 10.11 min Scan# 2278
Delta R.T. -0.03 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

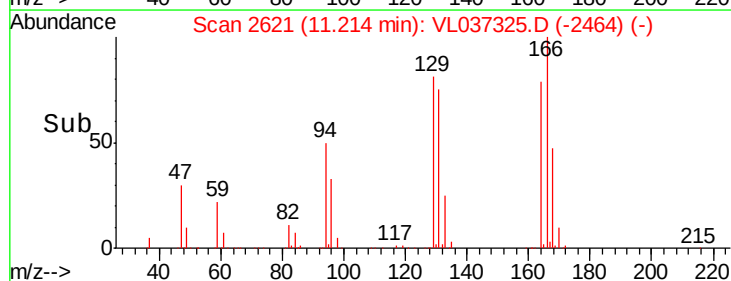
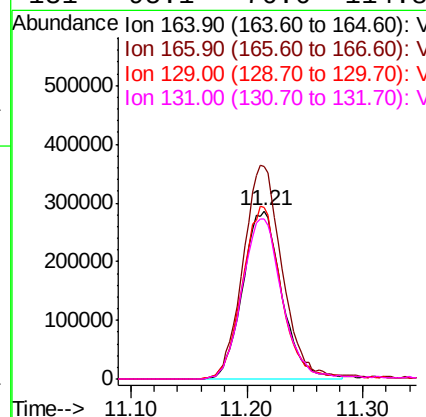
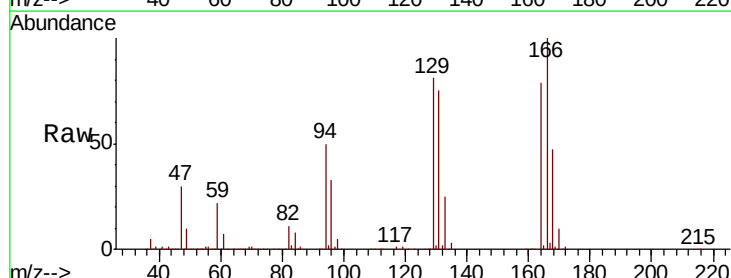
Instrument :
MSVOA_L
ClientSampleId :

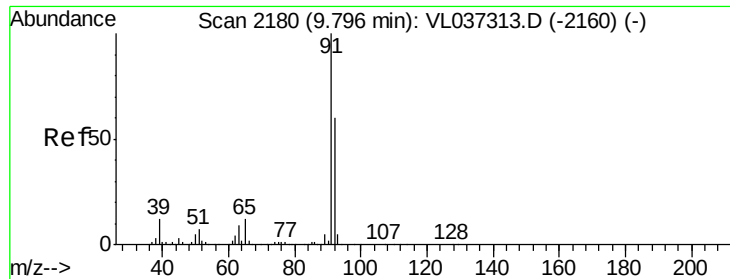
Tot Ion: 43 Resp: 256687
Ion Ratio Lower Upper
43 100
58 63.0 40.9 61.3#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 4.792 ppbv
RT: 11.21 min Scan# 2621
Delta R.T. 0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 164 Resp: 669682
Ion Ratio Lower Upper
164 100
166 126.8 103.4 155.2
129 102.4 82.2 123.2
131 95.1 76.6 114.8





#53

Toluene

Concen: 1.977 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

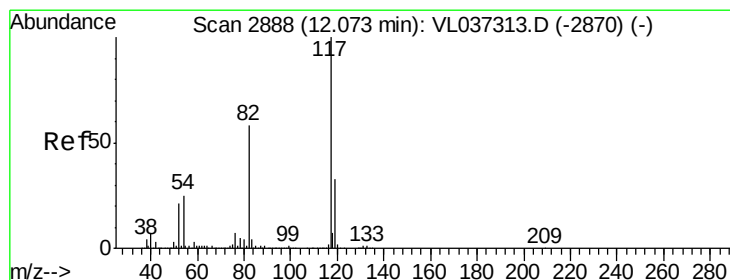
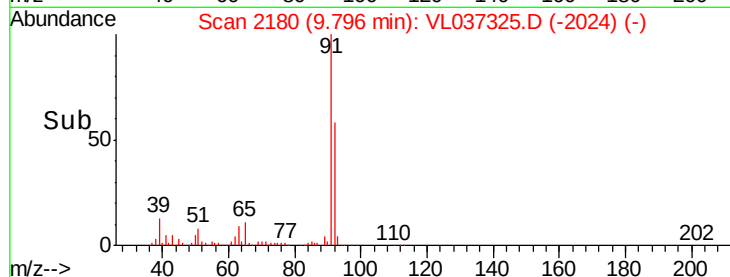
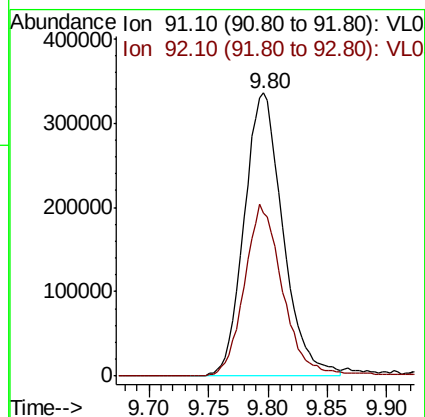
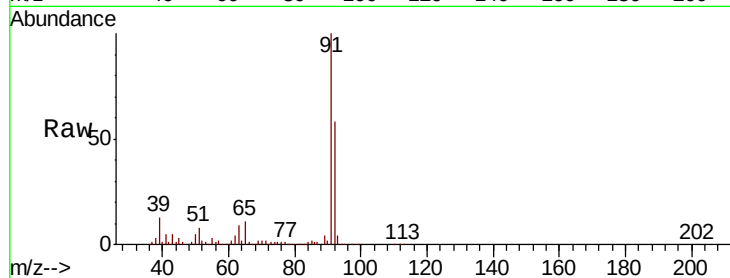
ClientSampleId :

Tot Ion: 91 Resp: 757446

Ion Ratio Lower Upper

91 100

92 60.1 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

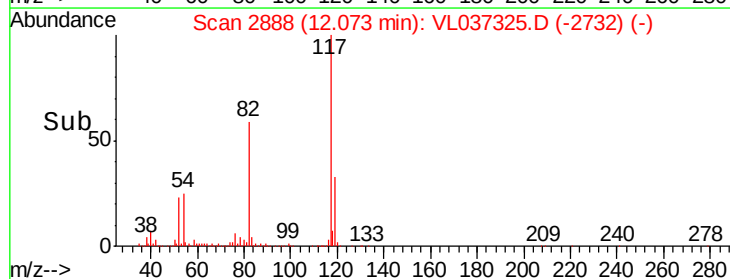
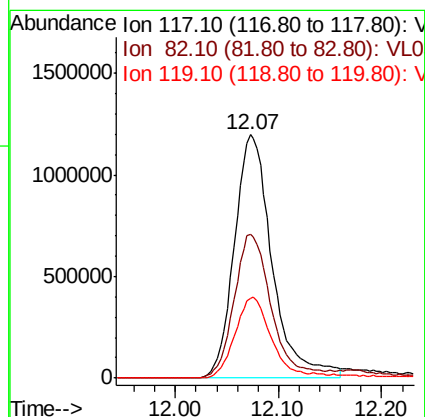
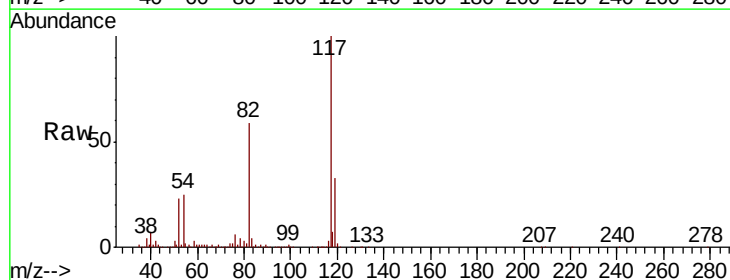
Tgt Ion: 117 Resp: 3056855

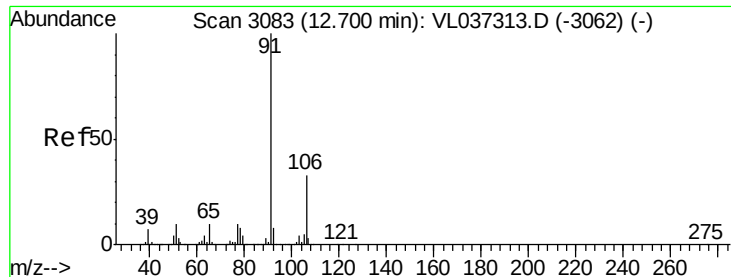
Ion Ratio Lower Upper

117 100

82 58.5 50.3 75.5

119 35.5 48.2 72.2#





#58

Ethyl Benzene

Concen: 0.449 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

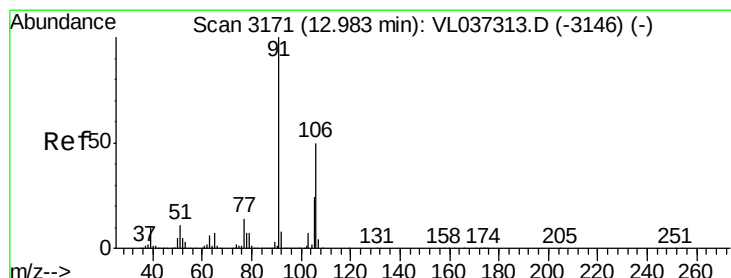
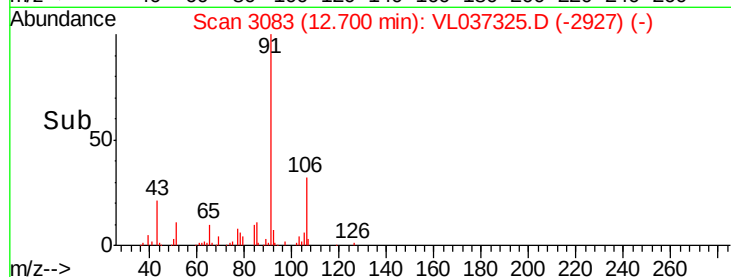
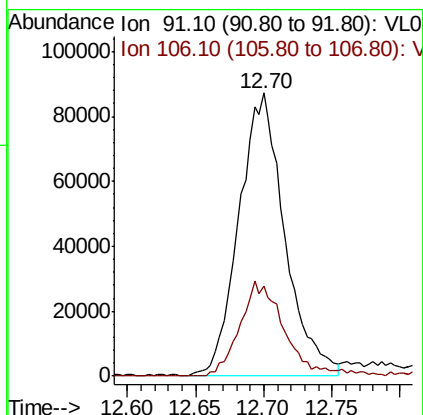
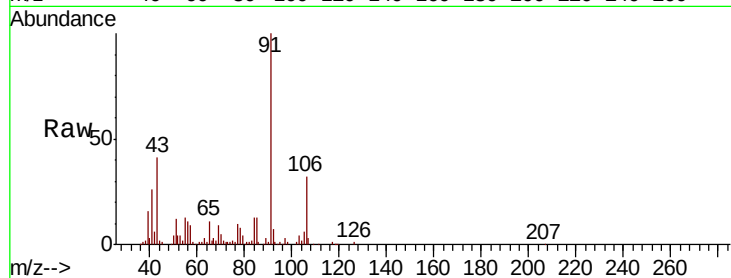
ClientSampleId :

Tot Ion: 91 Resp: 201749

Ion Ratio Lower Upper

91 100

106 31.9 26.2 39.2



#59

m/p-Xylene

Concen: 1.315 ppbv

RT: 12.95 min Scan# 3161

Delta R.T. -0.03 min

Lab File: VL037325.D

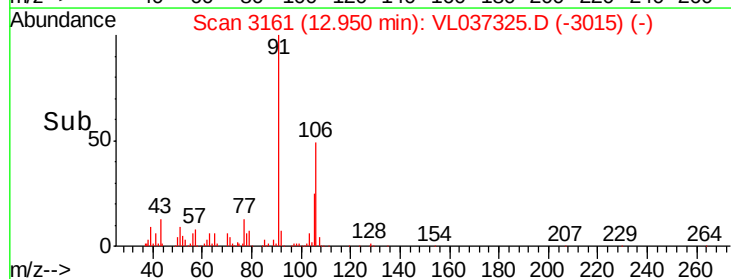
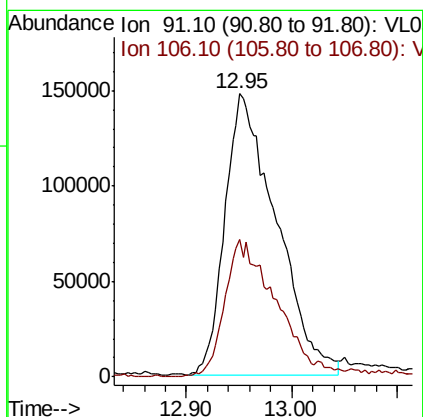
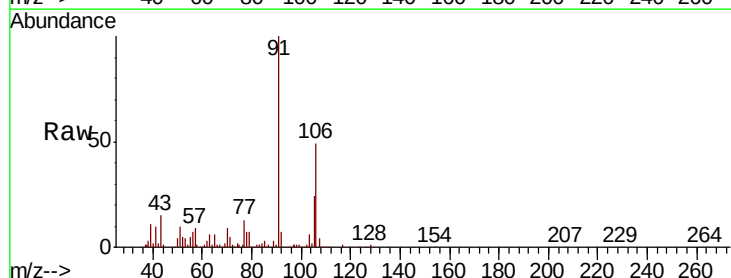
Acq: 5 Aug 2021 2:36

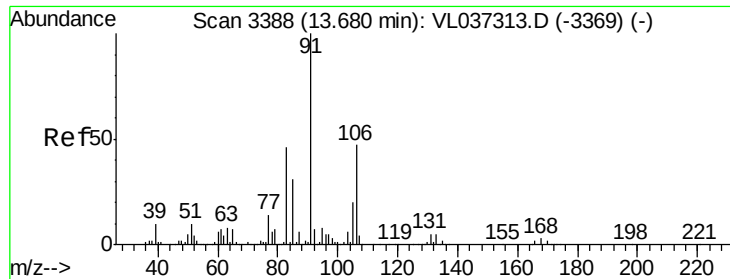
Tgt Ion: 91 Resp: 497245

Ion Ratio Lower Upper

91 100

106 48.4 37.8 56.8

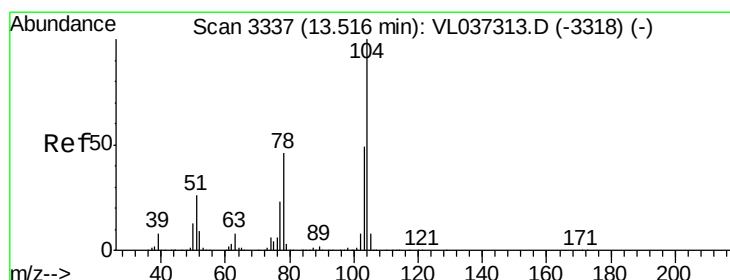
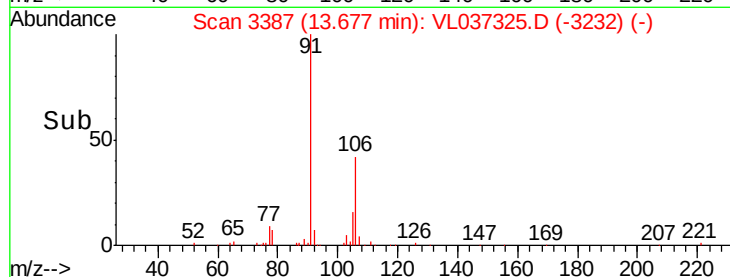
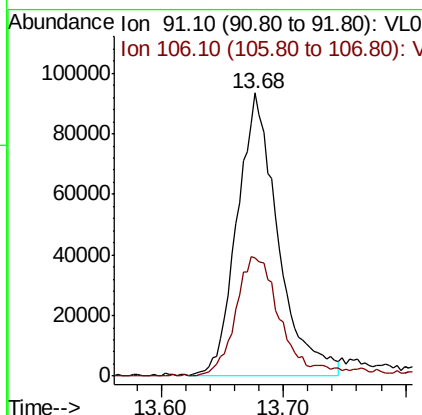
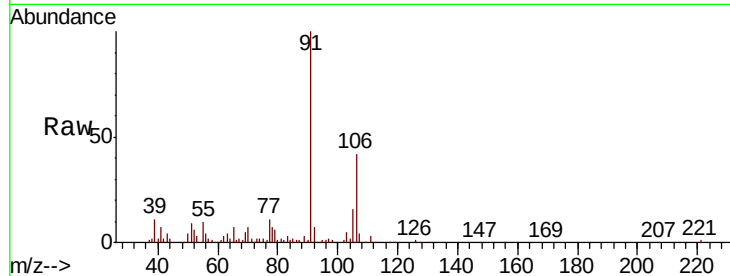




#60
o-Xylene
Concen: 0.626 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.00 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

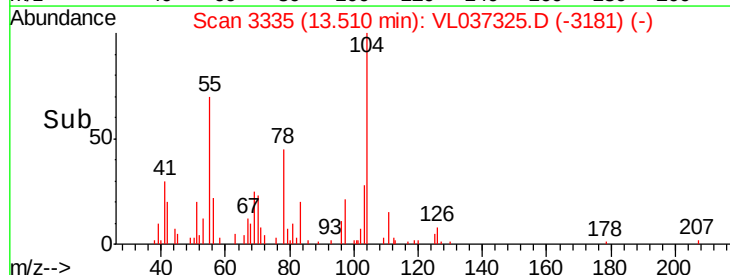
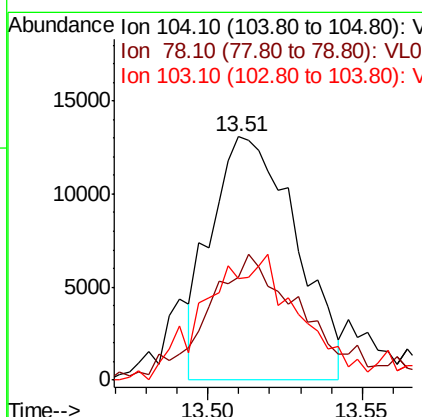
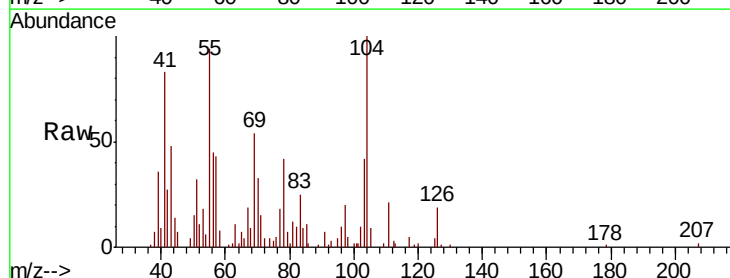
Instrument :
MSVOA_L
ClientSampled :

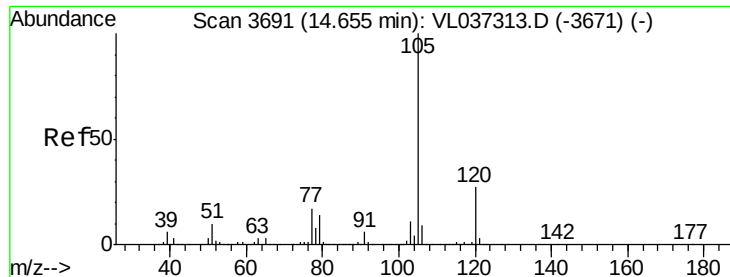
Tot Ion: 91 Resp: 215257
Ion Ratio Lower Upper
91 100
106 46.2 26.3 78.8



#61
Styrene
Concen: 0.132 ppbv
RT: 13.51 min Scan# 3335
Delta R.T. -0.01 min
Lab File: VL037325.D
Acq: 5 Aug 2021 2:36

Tgt Ion: 104 Resp: 24948
Ion Ratio Lower Upper
104 100
78 60.3 39.3 58.9#
103 67.2 40.6 60.8#





#62

Isopropylbenzene

Concen: 0.052 ppbv

RT: 14.65 min Scan# 3691

Delta R.T. 0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

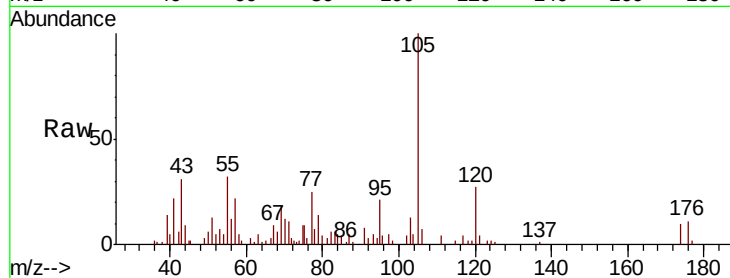
ClientSampleId :

Tot Ion:105 Resp: 25927

Ion Ratio Lower Upper

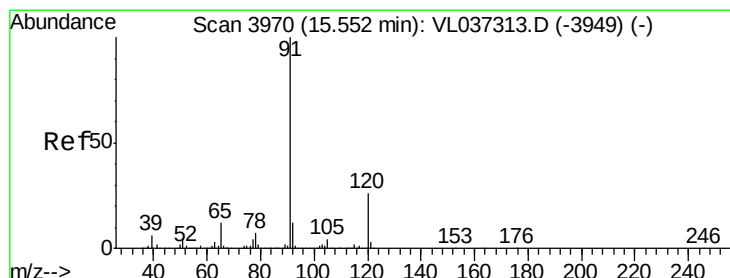
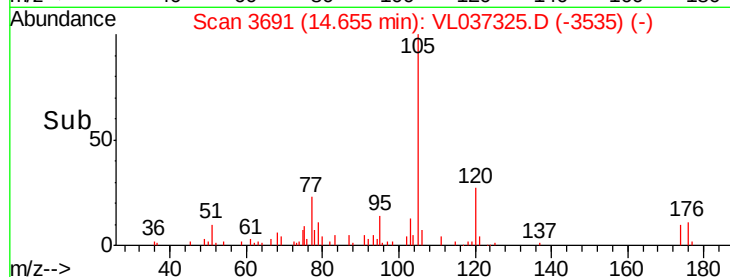
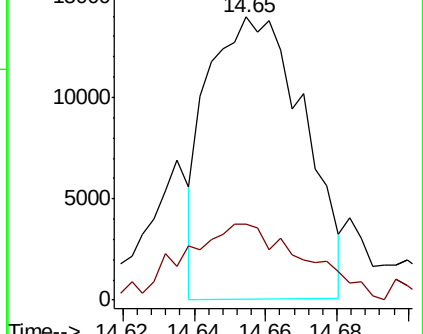
105 100

120 39.3 23.0 34.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.053 ppbv

RT: 15.55 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VL037325.D

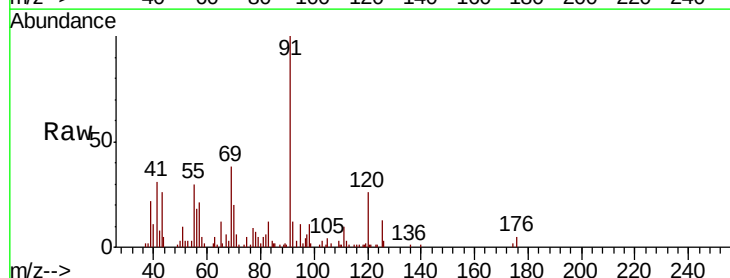
Acq: 5 Aug 2021 2:36

Tgt Ion:120 Resp: 6865

Ion Ratio Lower Upper

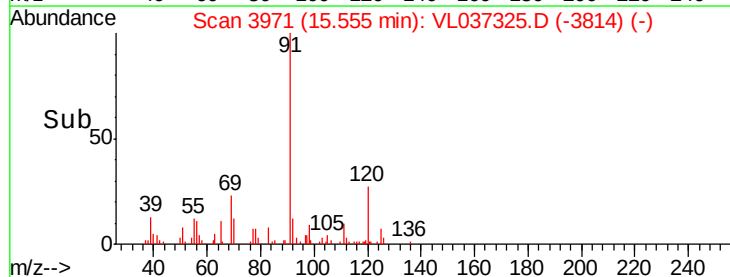
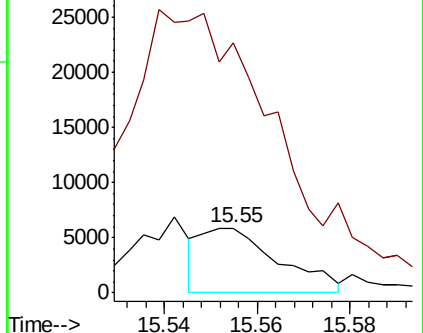
120 100

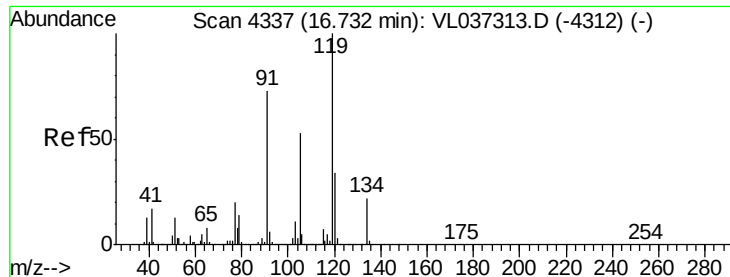
91 0.0 361.0 541.4#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.048 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.01 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

ClientSampleId :

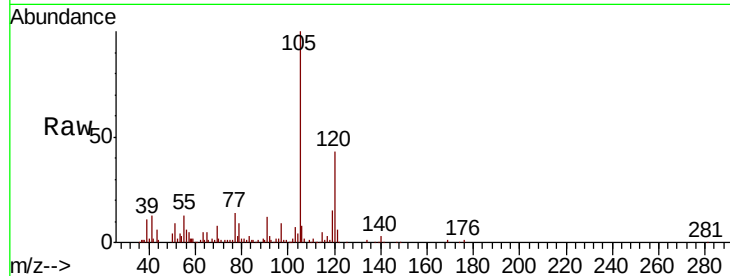
Tot Ion:119 Resp: 22145

Ion Ratio Lower Upper

119 100

91 5.6 58.6 88.0#

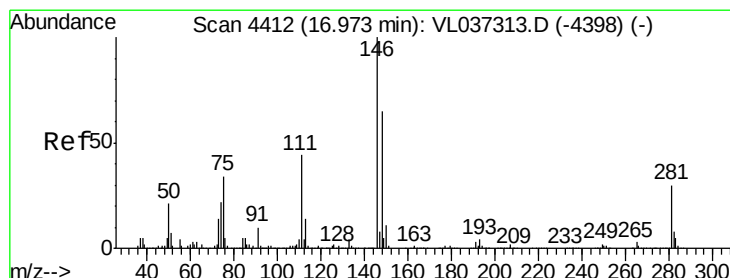
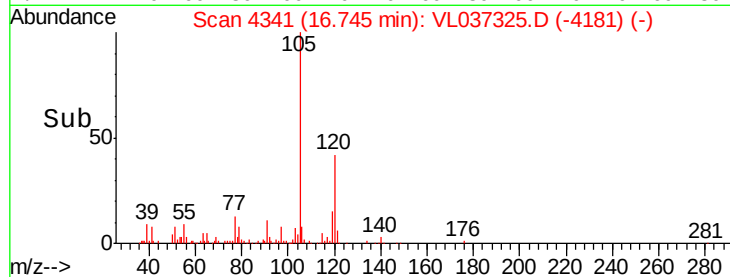
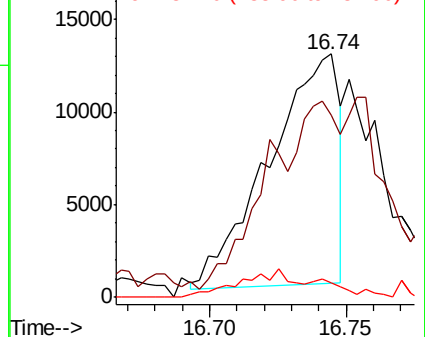
134 12.8 16.5 24.7#



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: 0.098 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

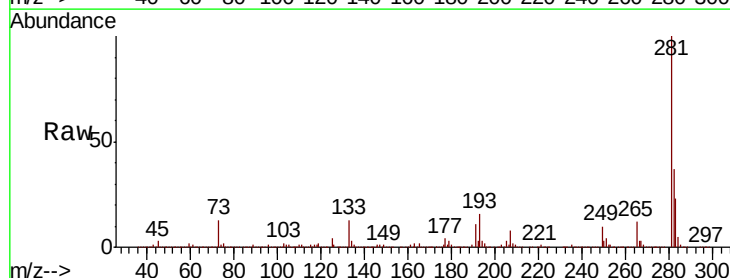
Tgt Ion: 91 Resp: 1750

Ion Ratio Lower Upper

91 100

126 0.0 17.8 26.6#

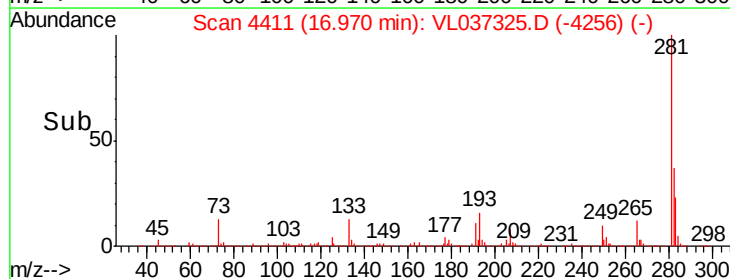
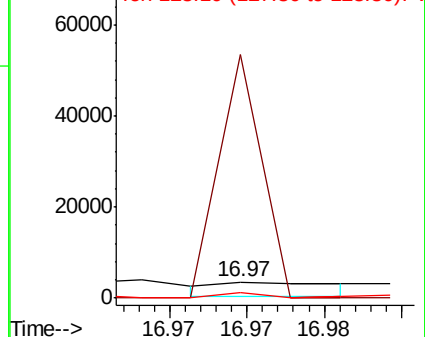
128 0.0 5.8 8.6#

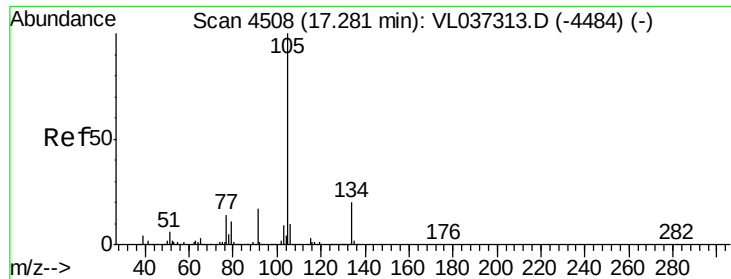


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.042 ppbv

RT: 16.95 min Scan# 4405

Delta R.T. -0.33 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

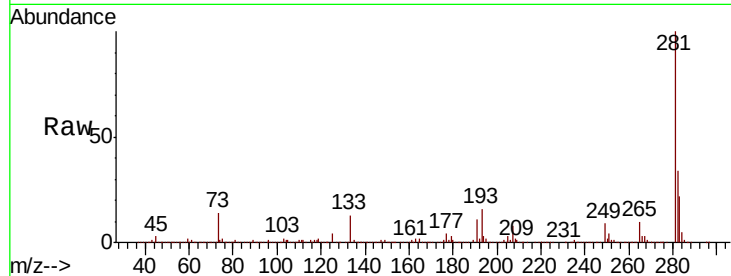
ClientSampleId :

Tot Ion:105 Resp: 26277

Ion Ratio Lower Upper

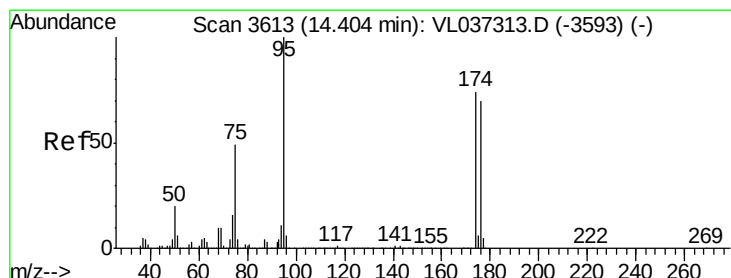
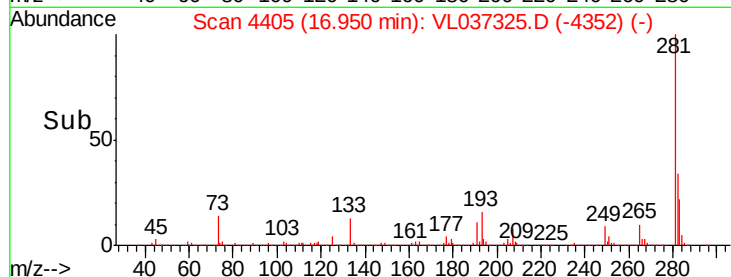
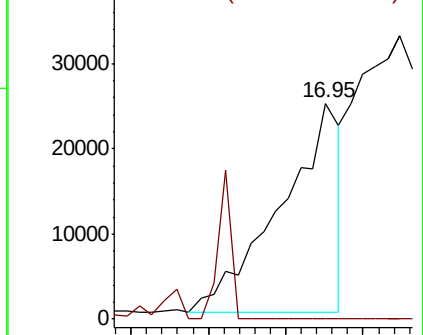
105 100

134 22.7 15.4 23.2



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: 10.268 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

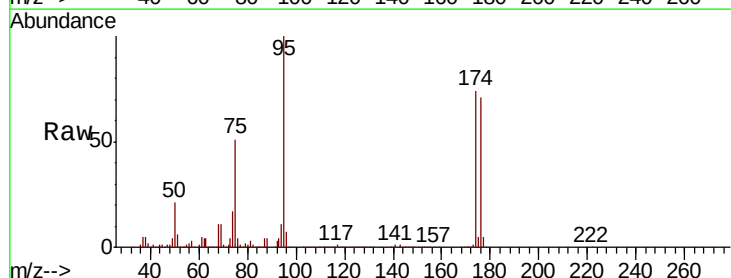
Tgt Ion: 95 Resp: 2144032

Ion Ratio Lower Upper

95 100

174 80.3 66.9 100.3

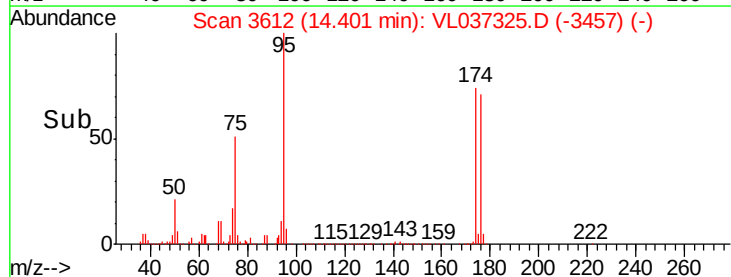
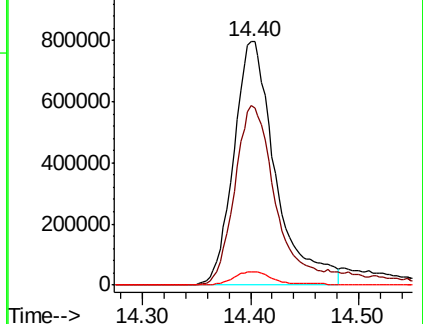
175 5.5 5.1 7.7

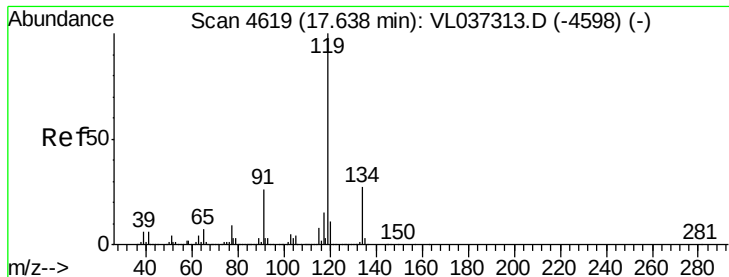


Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.034 ppbv

RT: 17.64 min Scan# 4618

Delta R.T. -0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

ClientSampleId :

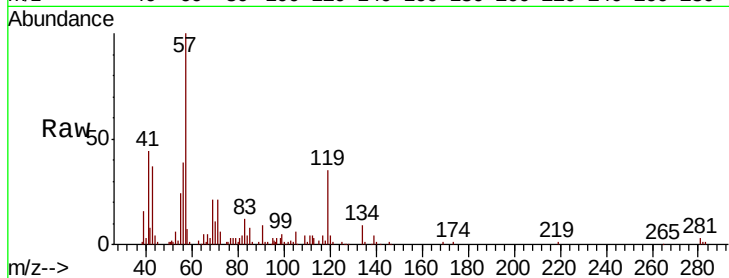
Tot Ion:119 Resp: 17536

Ion Ratio Lower Upper

119 100

134 63.2 21.0 31.6#

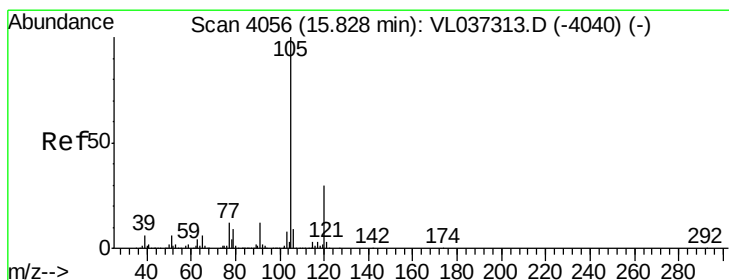
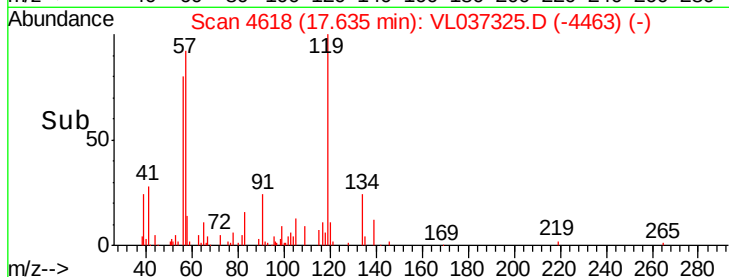
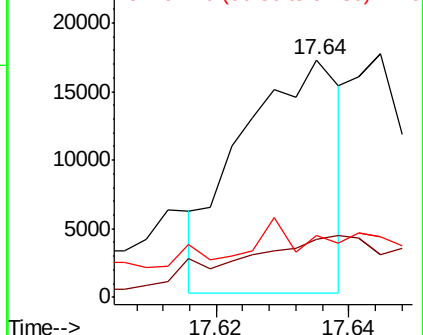
91 62.1 20.5 30.7#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VLO



#72

4-Ethyltoluene

Concen: 0.151 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. -0.01 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Tgt Ion:105 Resp: 62500

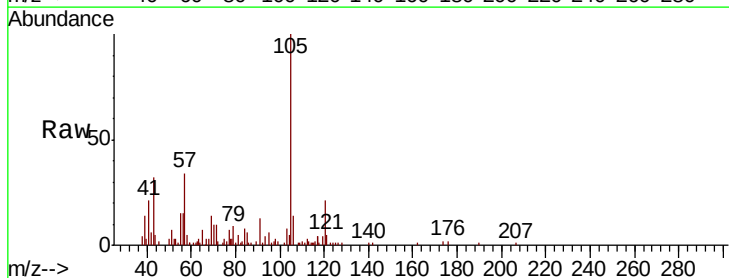
Ion Ratio Lower Upper

105 100

120 34.2 25.6 38.4

91 14.7 9.4 14.2#

77 14.6 10.2 15.4

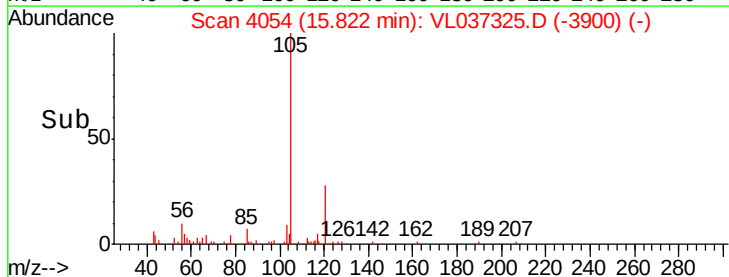
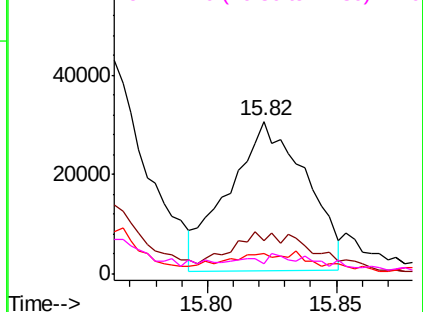


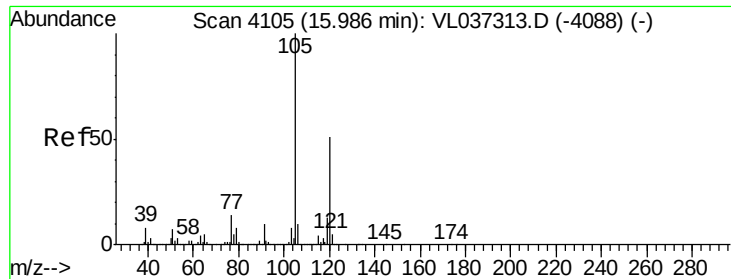
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO

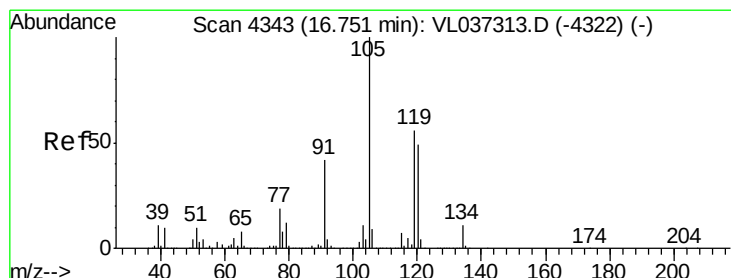
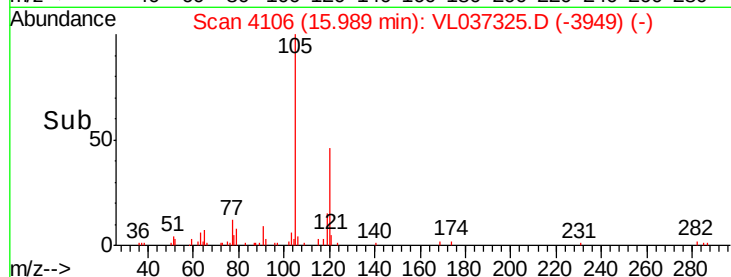
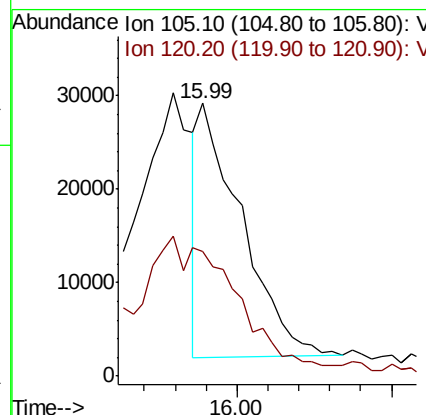
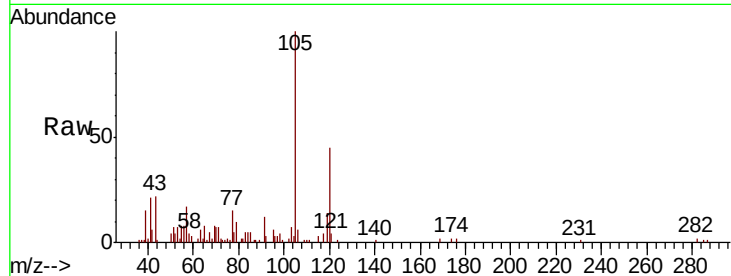




#73
 1,3,5-Trimethylbenzene
 Concen: 0.070 ppbv
 RT: 15.99 min Scan# 4106
 Delta R.T. 0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

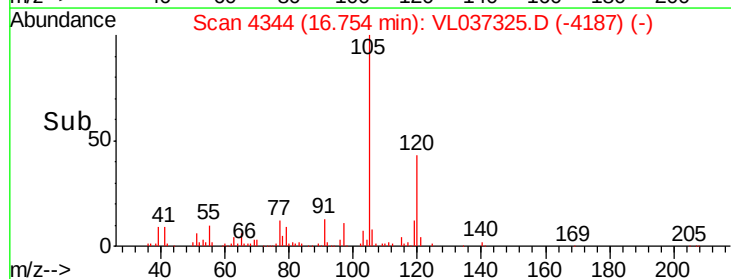
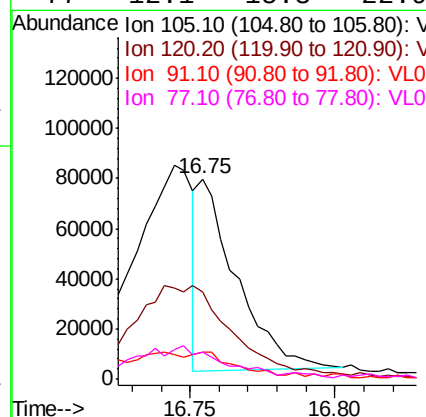
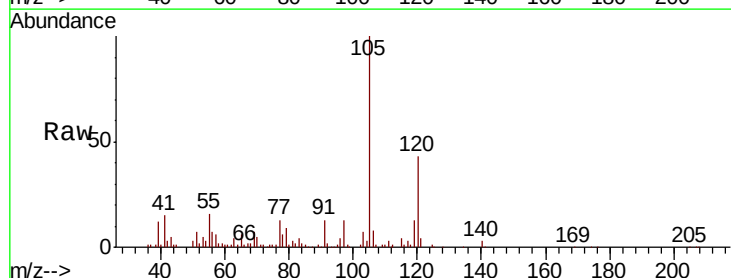
Instrument :
 MSVOA_L
 ClientSampleId :

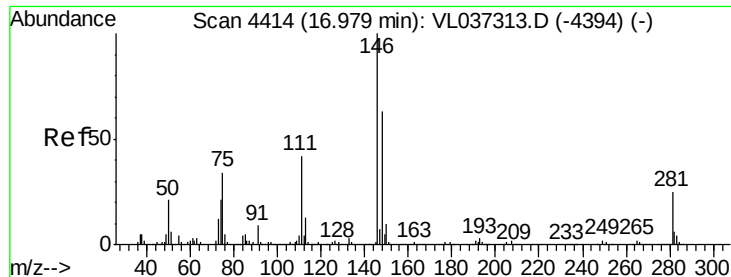
Tot Ion:105 Resp: 25959
 Ion Ratio Lower Upper
 105 100
 120 45.7 40.4 60.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.175 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

Tgt Ion:105 Resp: 69507
 Ion Ratio Lower Upper
 105 100
 120 43.0 39.6 59.4
 91 11.8 34.5 51.7#
 77 12.1 15.3 22.9#

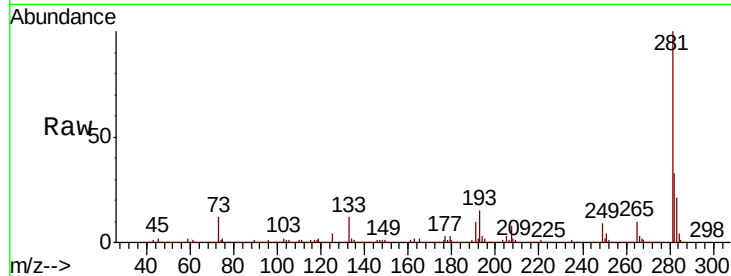




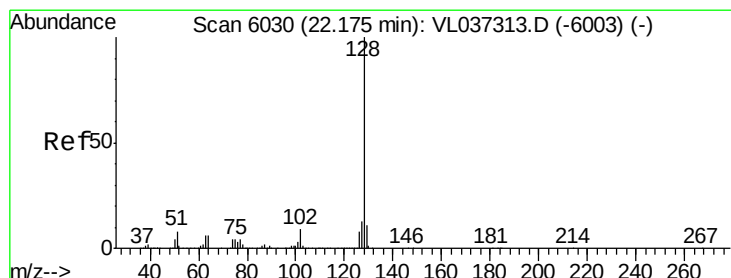
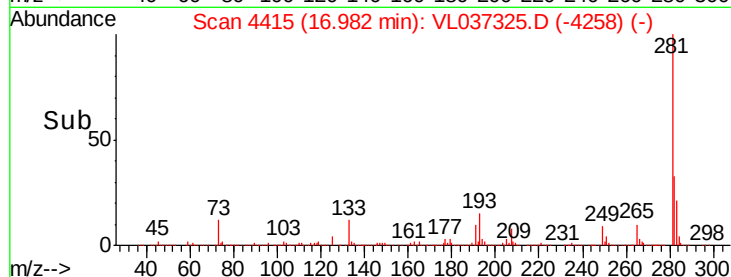
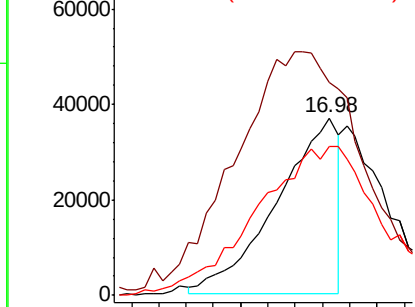
#75
 1,3-Dichlorobenzene
 Concen: 0.235 ppbv
 RT: 16.98 min Scan# 4415
 Delta R.T. 0.00 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:146 Resp: 57621
 Ion Ratio Lower Upper
 146 100
 111 296.8 21.4 64.3#
 148 0.0 32.6 97.7#

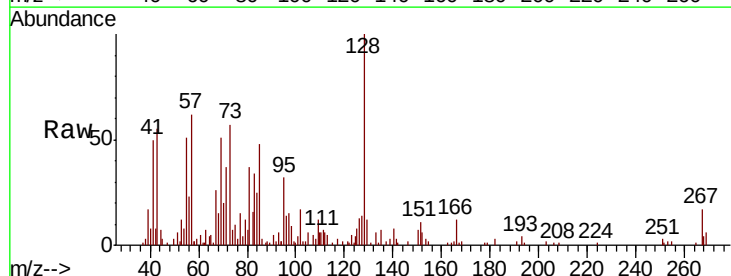


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

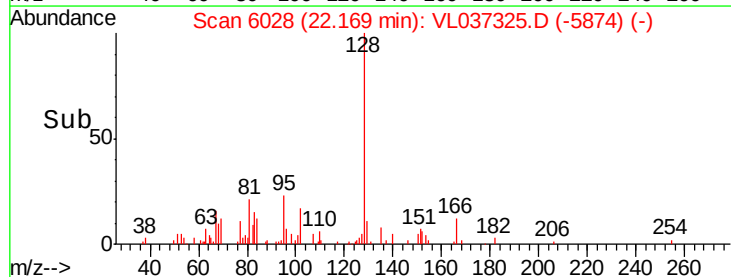
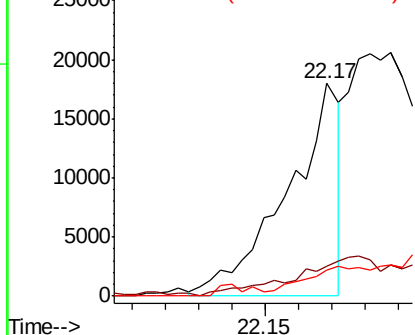


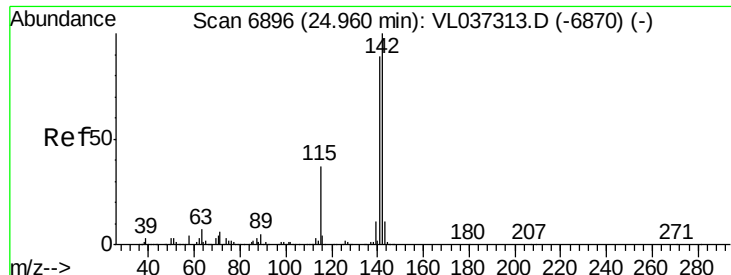
#79
 Naphthalene
 Concen: 0.054 ppbv
 RT: 22.17 min Scan# 6028
 Delta R.T. -0.01 min
 Lab File: VL037325.D
 Acq: 5 Aug 2021 2:36

Tgt Ion:128 Resp: 19757
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.3 15.5
 129 12.4 8.6 12.8



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: 0.200 ppbv

RT: 24.96 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL037325.D

Acq: 5 Aug 2021 2:36

Instrument :

MSVOA_L

ClientSampleId :

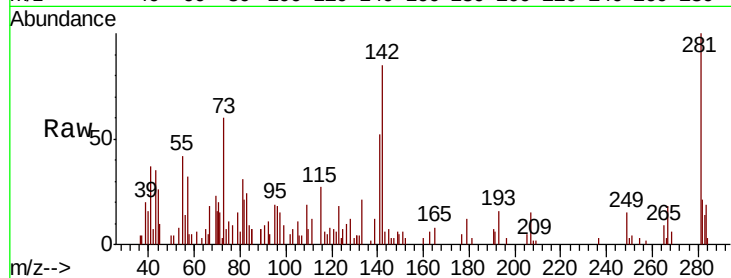
Tot Ion:142 Resp: 11849

Ion Ratio Lower Upper

142 100

141 103.7 67.2 100.8#

115 63.8 27.9 41.9#



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

