

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037236.D
 Acq On : 23 Jun 2021 6:48
 Operator : SY/AP
 Sample : M2797-03DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 24 03:48:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1610374	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4730620	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4116010	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2962627	9.50	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

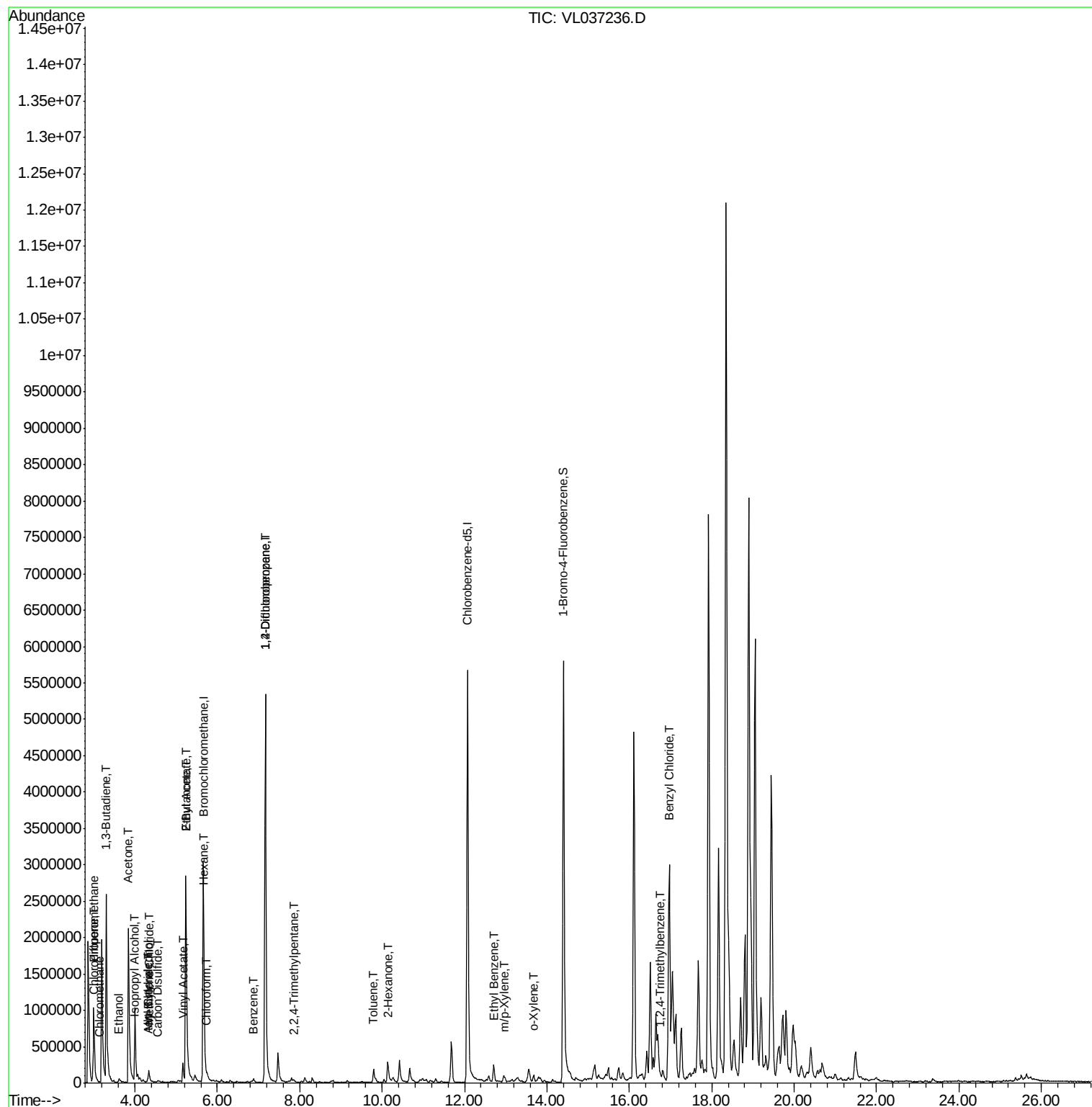
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	281693	0.900	ppbv	96
4) Chloromethane	3.13	50	3859	0.037	ppbv	99
9) Propene	3.00	41	534654	5.340	ppbv	97
13) Ethanol	3.62	45	36811	2.377	ppbv	99
15) Acetone	3.84	43	2971098	16.361	ppbv	95
16) 1,3-Butadiene	3.30	39	827665	7.710	ppbv #	19
17) tert-Butyl alcohol	4.31	59	16989	0.101	ppbv #	33
19) Isopropyl Alcohol	3.98	45	4273	0.039	ppbv #	91
20) Methylene Chloride	4.34	84	48328	0.445	ppbv	94
21) Allyl Chloride	4.31	41	4607	0.034	ppbv #	1
23) Vinyl Acetate	5.16	43	92935	0.357	ppbv #	11
25) Ethyl Acetate	5.24	43	4397065	11.185	ppbv #	75
26) Hexane	5.68	57	42066	0.212	ppbv #	2
27) Carbon Disulfide	4.55	76	10517	0.054	ppbv #	66
29) Chloroform	5.74	83	17682	0.058	ppbv	84
34) 2-Butanone	5.24	43	4397065	23.900	ppbv	100
36) Benzene	6.88	78	30599	0.080	ppbv	95
39) 1,2-Dichloropropane	7.16	63	1139860	8.019	ppbv #	24
44) 2,2,4-Trimethylpentane	7.86	57	17460	0.027	ppbv #	65
51) 2-Hexanone	10.14	43	281133	2.287	ppbv #	92
53) Toluene	9.80	91	152801	0.334	ppbv	99
58) Ethyl Benzene	12.70	91	37587	0.066	ppbv #	69
59) m/p-Xylene	12.98	91	11252	0.023	ppbv #	30
60) o-Xylene	13.68	91	16560	0.036	ppbv #	11
66) Benzyl Chloride	16.96	91	525	0.021	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.75	105	42051	0.081	ppbv #	76

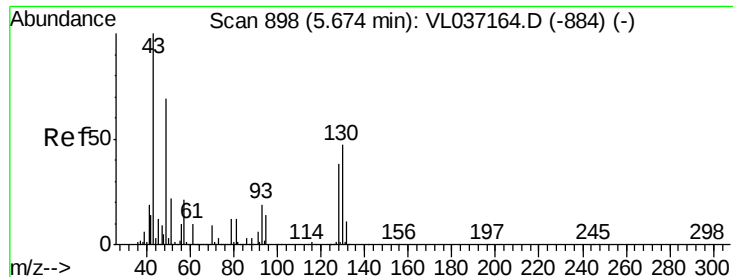
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

ClientSampleId :

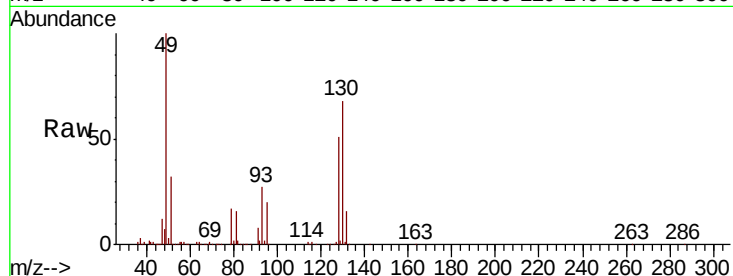
Tot Ion: 49 Resp: 1610374

Ion Ratio Lower Upper

49 100

128 55.3 29.3 88.0

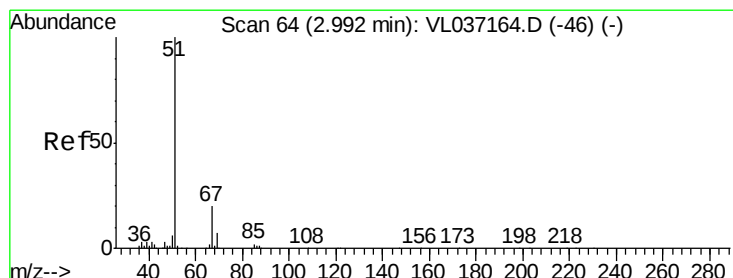
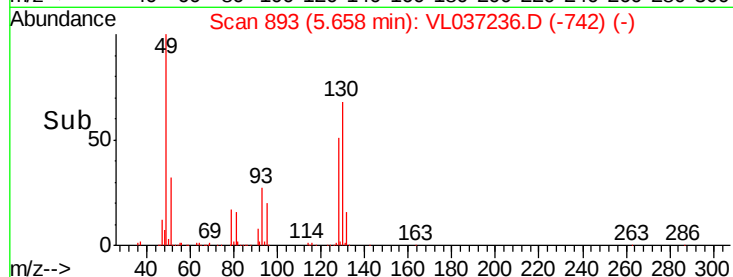
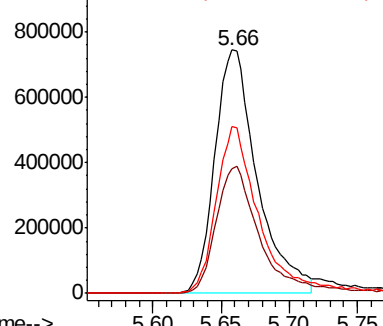
130 72.1 35.9 107.8



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: 0.900 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037236.D

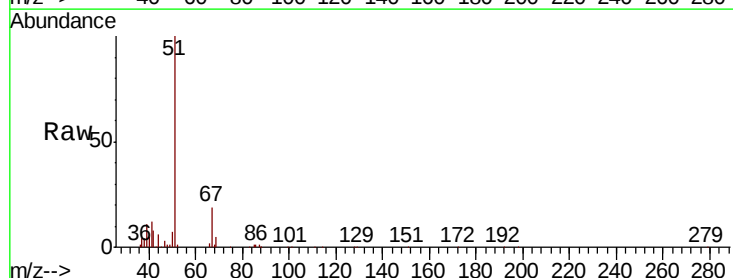
Acq: 23 Jun 2021 6:48

Tgt Ion: 51 Resp: 281693

Ion Ratio Lower Upper

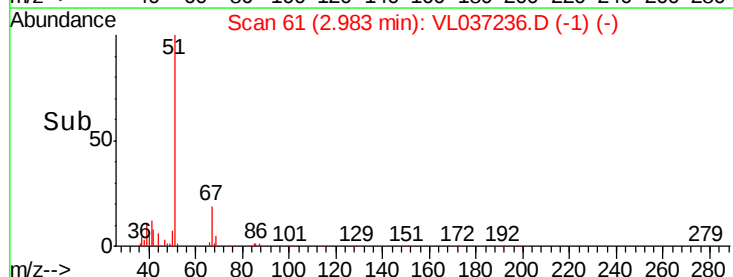
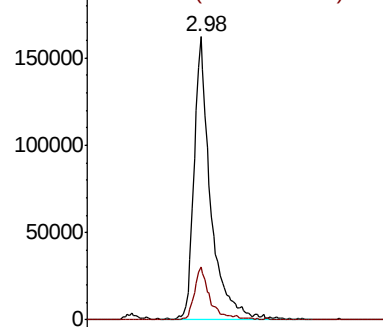
51 100

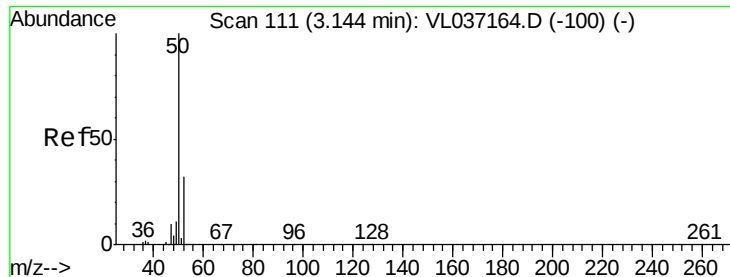
67 18.0 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

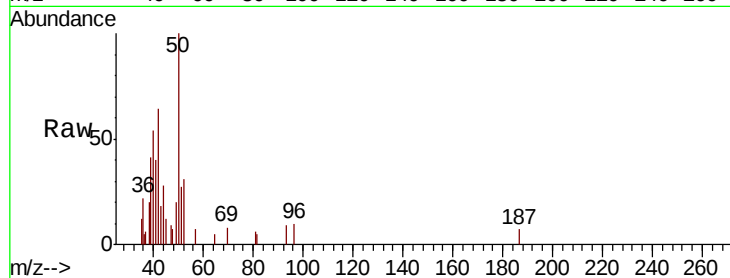
ClientSampleId :

Tot Ion: 50 Resp: 3859

Ion Ratio Lower Upper

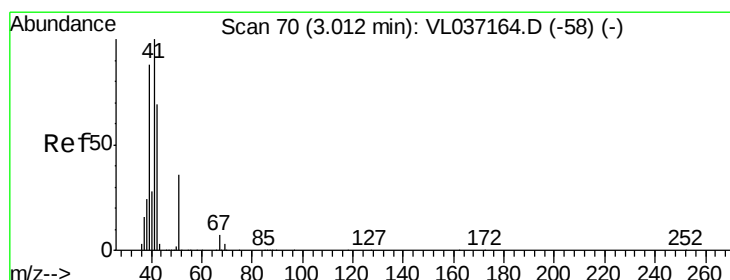
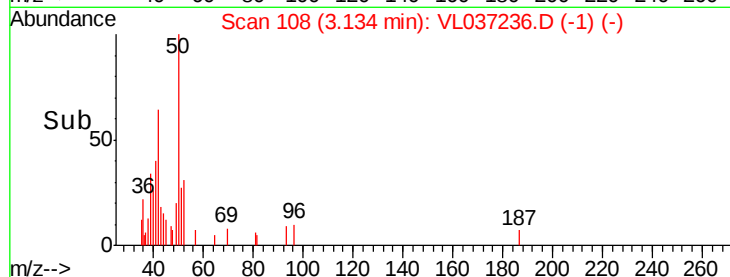
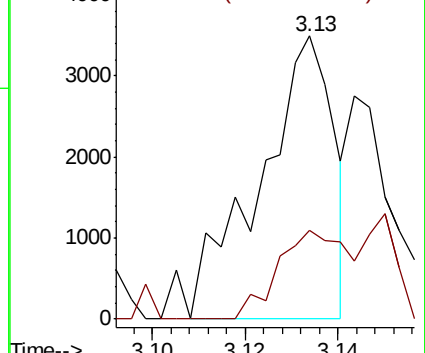
50 100

52 31.5 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 5.340 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037236.D

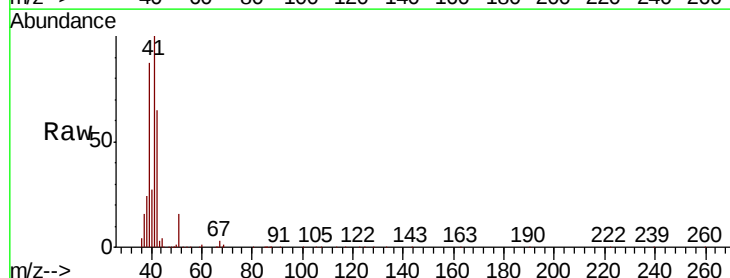
Acq: 23 Jun 2021 6:48

Tgt Ion: 41 Resp: 534654

Ion Ratio Lower Upper

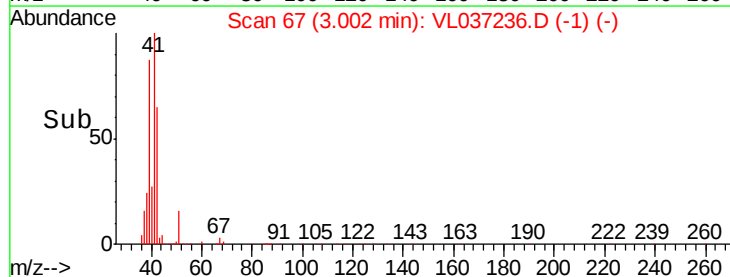
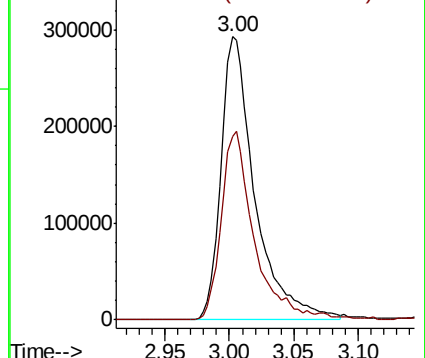
41 100

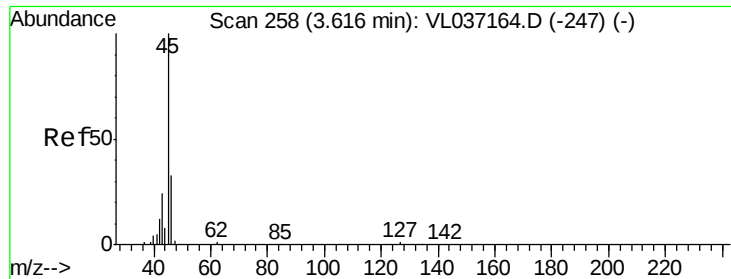
42 65.6 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

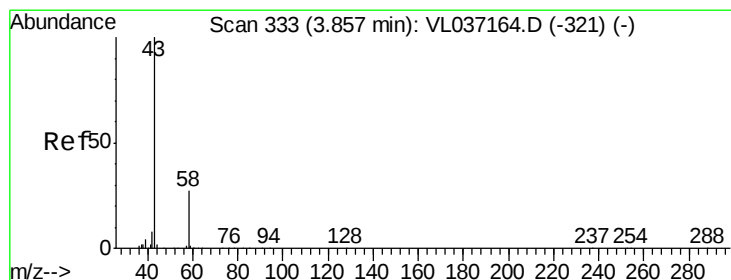
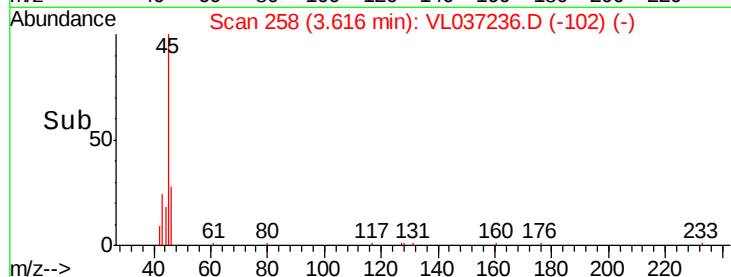
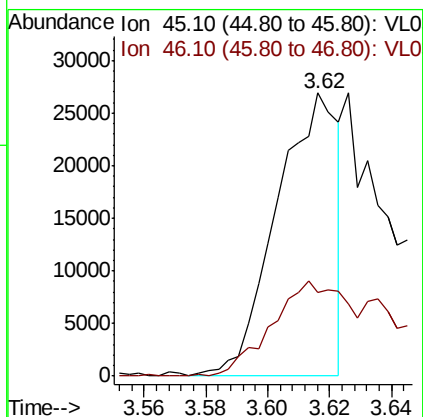
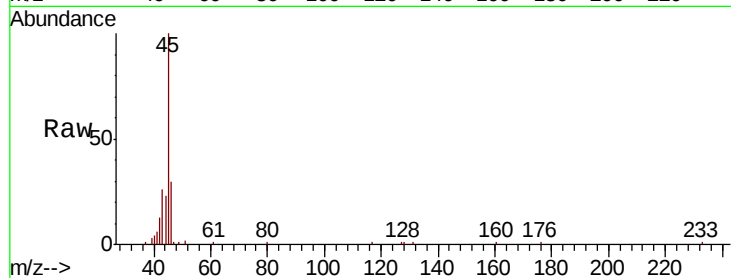




#13
Ethanol
Concen: 2.377 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.00 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

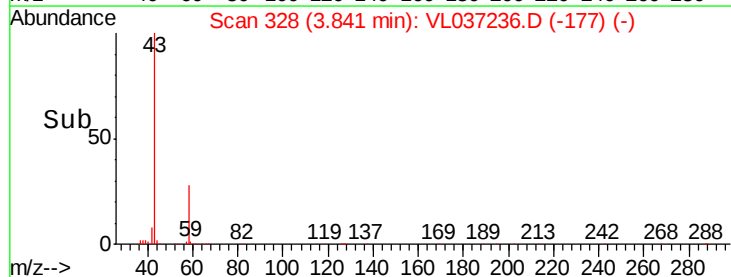
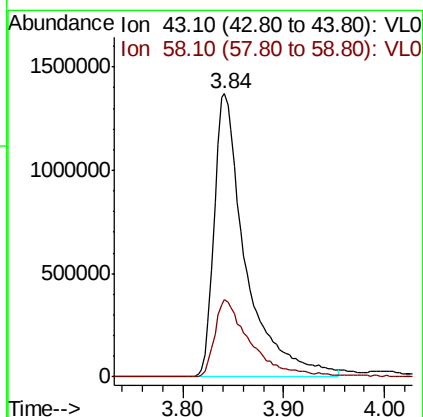
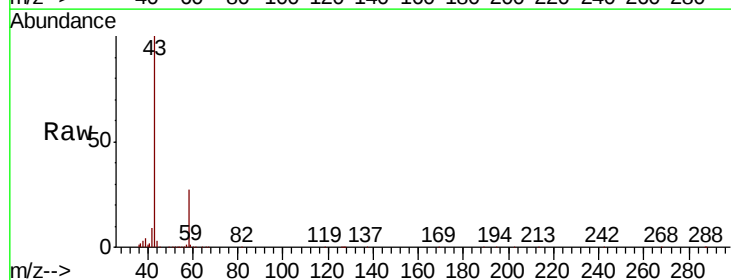
Instrument :
MSVOA_L
ClientSampleId :

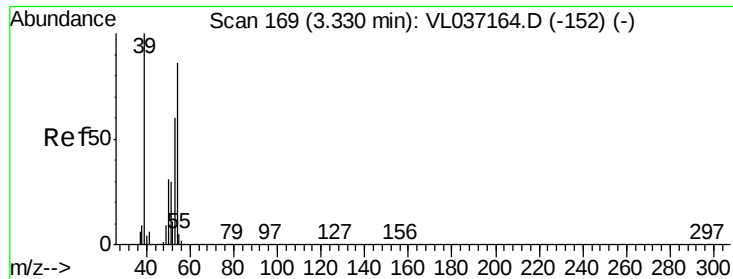
Tot Ion: 45 Resp: 36811
Ion Ratio Lower Upper
45 100
46 86.7 34.2 137.0



#15
Acetone
Concen: 16.361 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.02 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

Tgt Ion: 43 Resp: 2971098
Ion Ratio Lower Upper
43 100
58 32.4 23.7 35.5

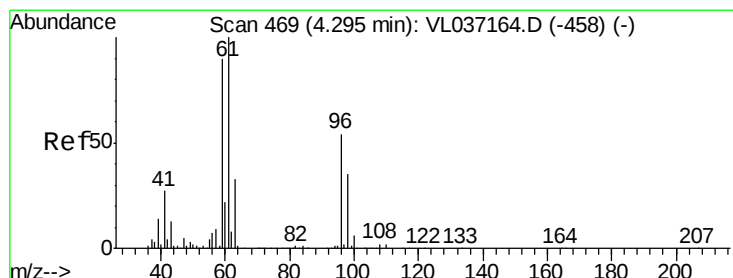
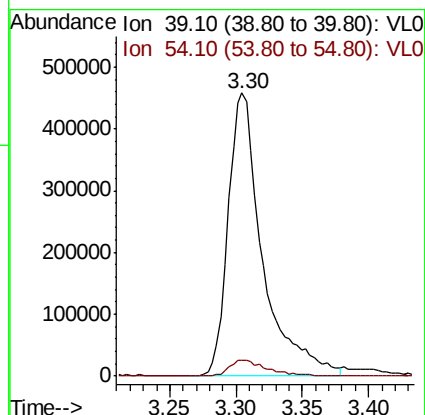
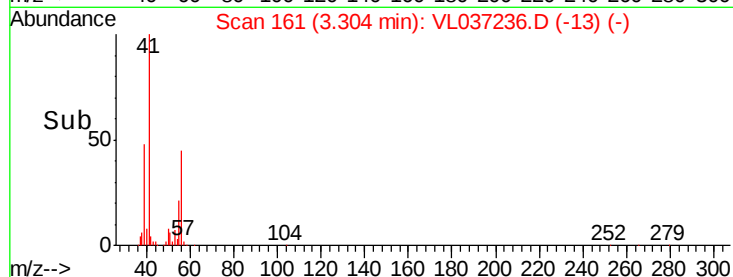
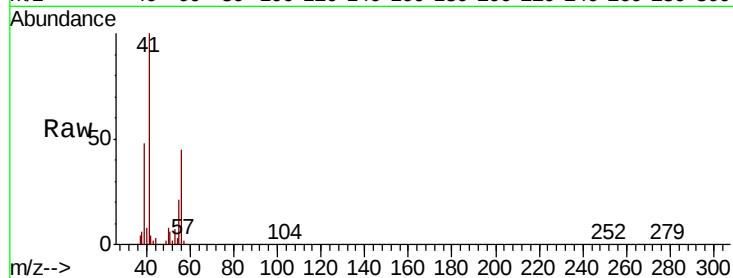




#16
1,3-Butadiene
Concen: 7.710 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.03 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

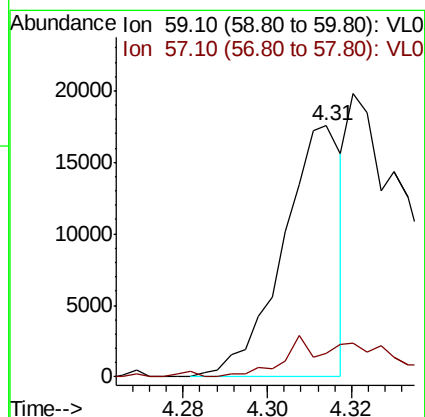
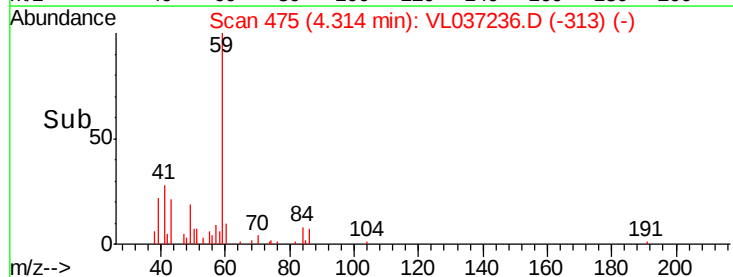
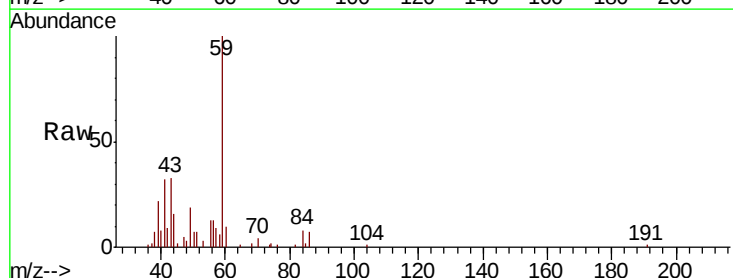
Instrument :
MSVOA_L
ClientSampleId :

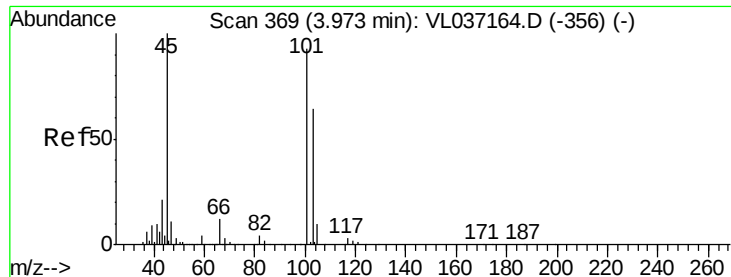
Tot Ion: 39 Resp: 827665
Ion Ratio Lower Upper
39 100
54 6.5 61.2 91.8#



#17
tert-Butyl alcohol
Concen: 0.101 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

Tgt Ion: 59 Resp: 16989
Ion Ratio Lower Upper
59 100
57 36.4 8.8 13.2#

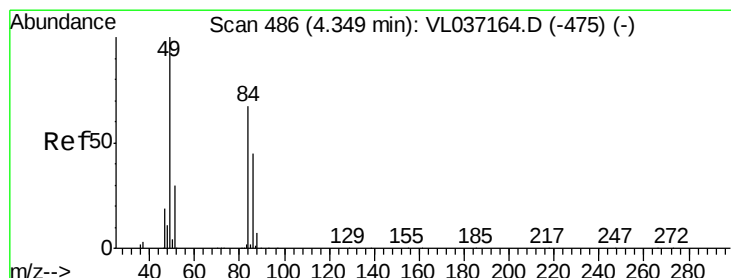
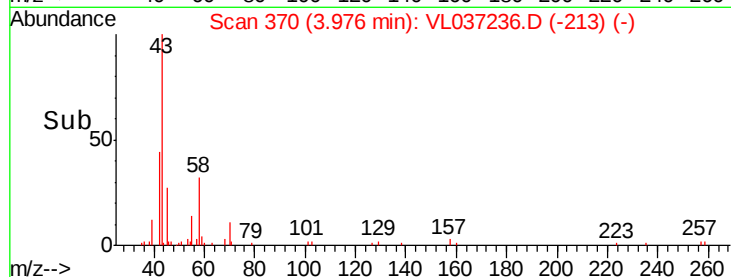
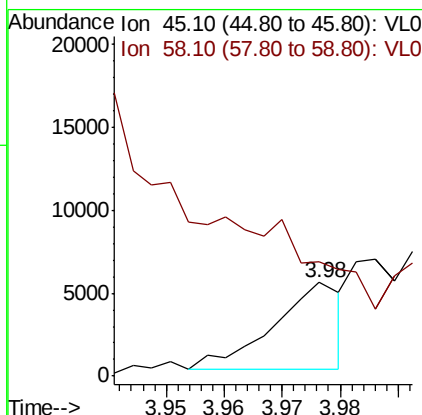
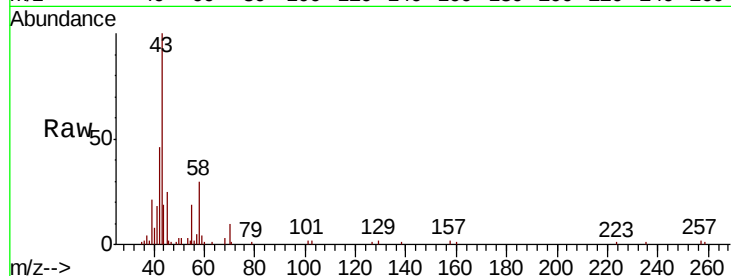




#19
Isopropyl Alcohol
Concen: 0.039 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.00 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

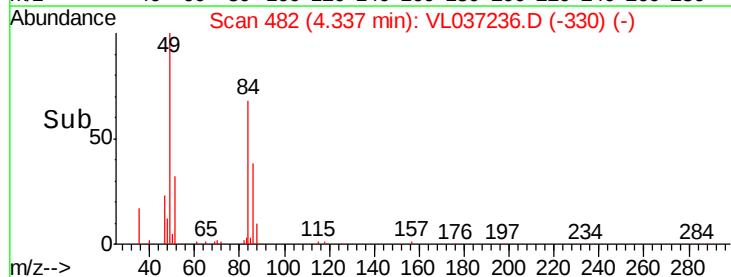
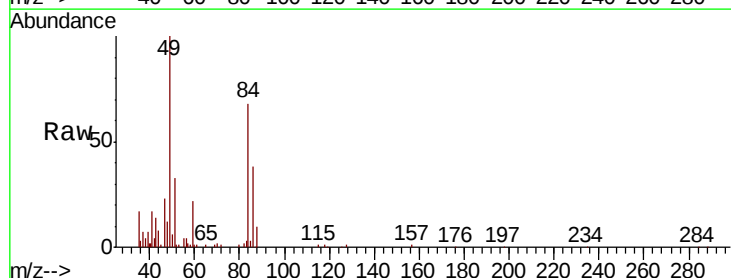
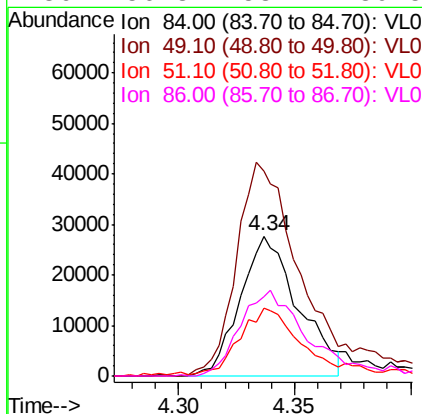
Instrument :
MSVOA_L
ClientSampled :

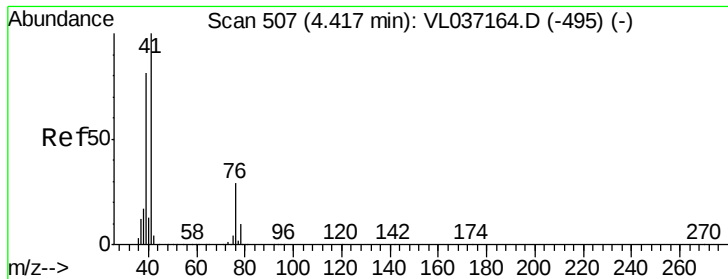
Tot Ion: 45 Resp: 4273
Ion Ratio Lower Upper
45 100
58 0.0 2.4 3.6#



#20
Methylene Chloride
Concen: 0.445 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

Tgt Ion: 84 Resp: 48328
Ion Ratio Lower Upper
84 100
49 145.8 119.7 179.5
51 49.4 36.1 54.1
86 56.3 53.7 80.5





#21

Allvl Chloride

Concen: 0.034 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.11 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

ClientSampled :

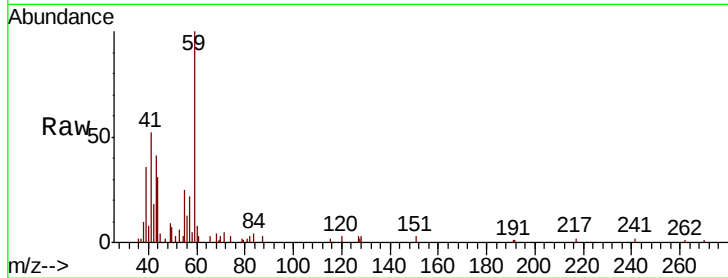
Tot Ion: 41 Resp: 4607

Ion Ratio Lower Upper

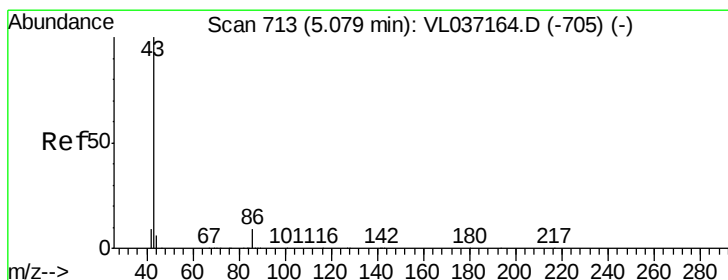
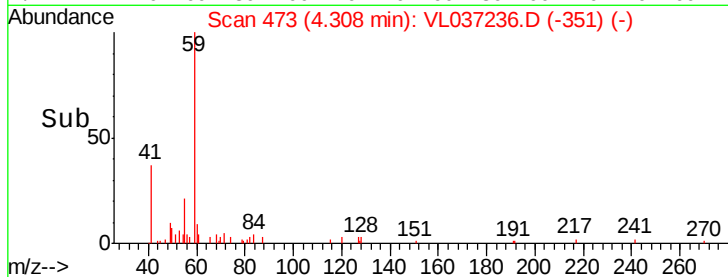
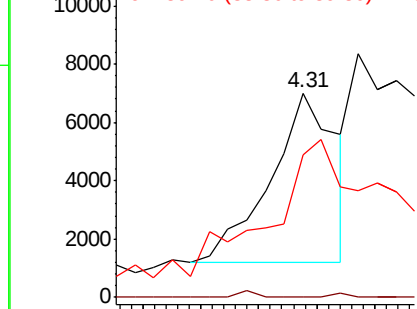
41 100

76 0.0 24.6 37.0#

39 219.3 65.4 98.0#



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: 0.357 ppbv

RT: 5.16 min Scan# 739

Delta R.T. 0.08 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Tgt Ion: 43 Resp: 92935

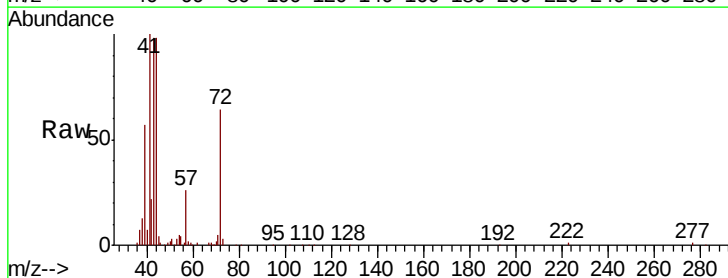
Ion Ratio Lower Upper

43 100

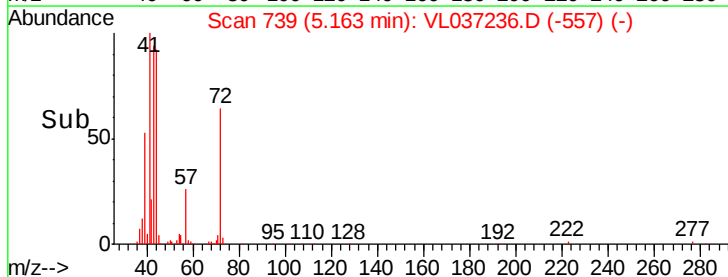
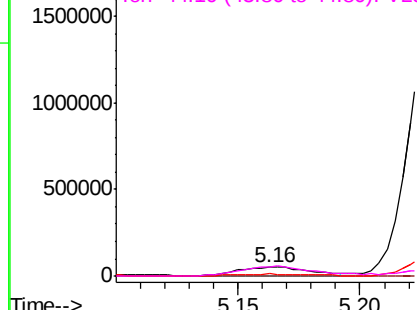
86 0.0 5.8 8.8#

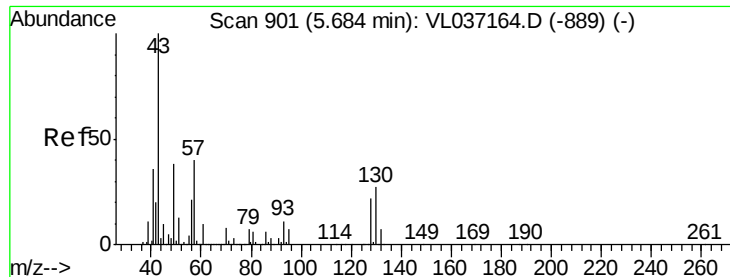
42 22.1 8.2 12.2#

44 102.3 4.2 6.4#



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

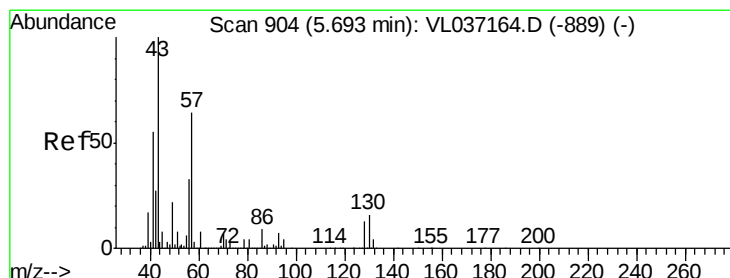
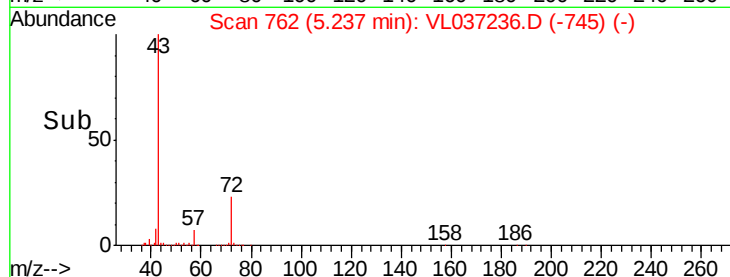
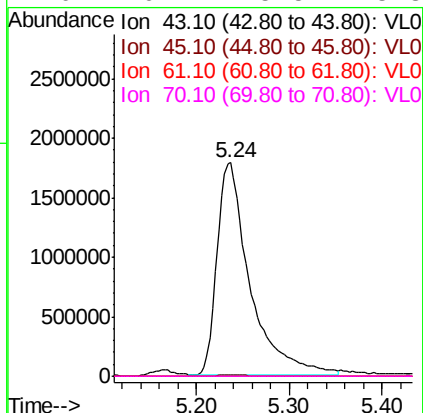
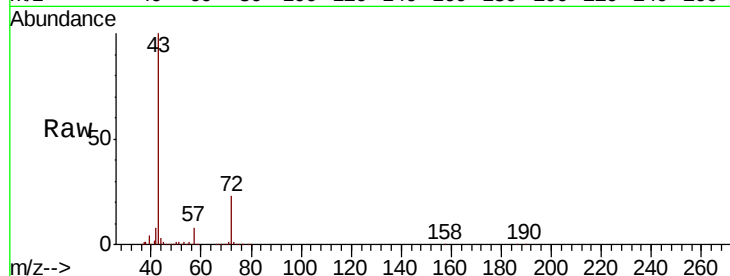




#25
Ethyl Acetate
Concen: 11.185 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.45 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

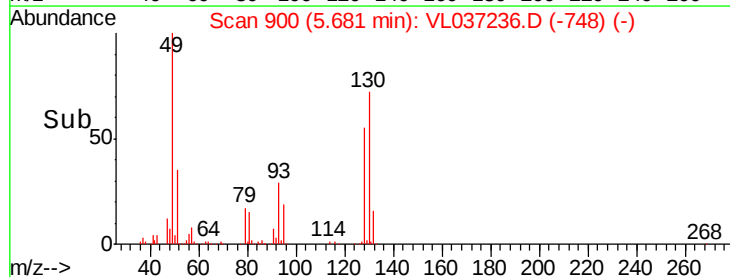
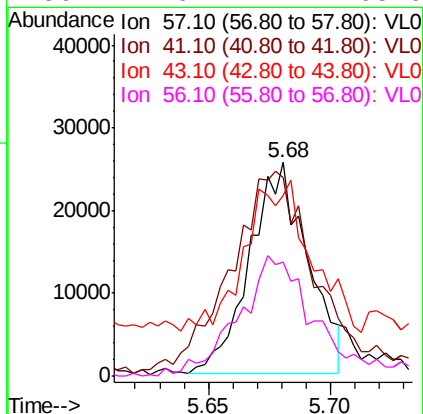
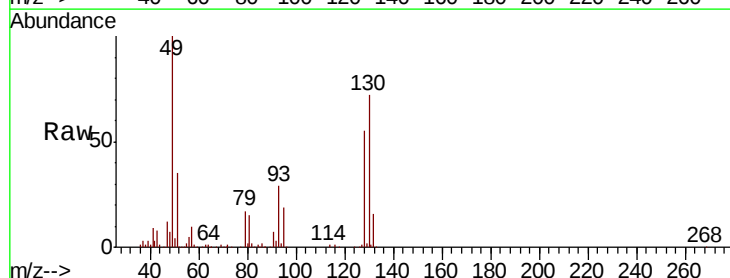
Instrument :
MSVOA_L
ClientSampleId :

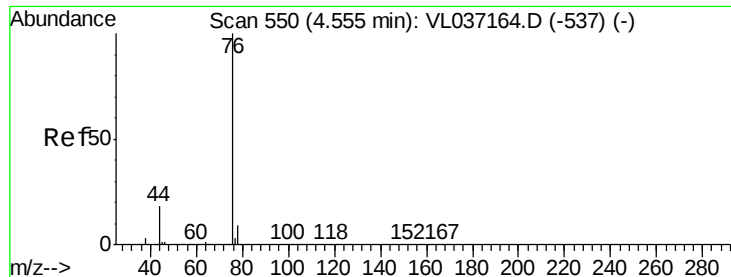
Tot Ion: 43 Resp: 4397065
Ion Ratio Lower Upper
43 100
45 0.6 8.0 12.0#
61 0.0 8.1 12.1#
70 0.1 5.5 8.3#



#26
Hexane
Concen: 0.212 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

Tgt Ion: 57 Resp: 42066
Ion Ratio Lower Upper
57 100
41 139.0 73.5 110.3#
43 0.0 170.7 256.1#
56 77.6 42.4 63.6#





#27

Carbon Disulfide

Concen: 0.054 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

ClientSampleId :

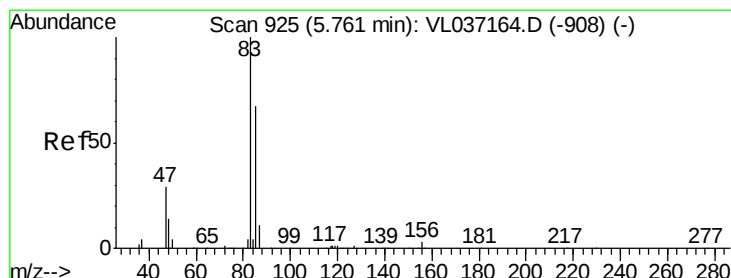
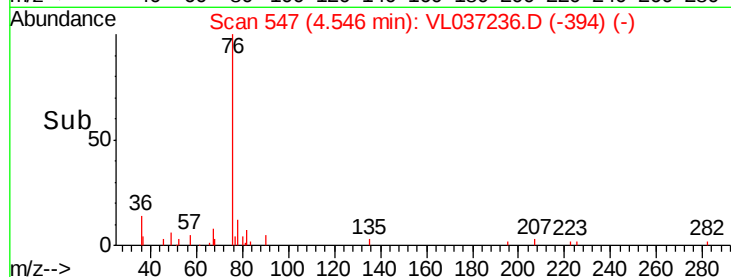
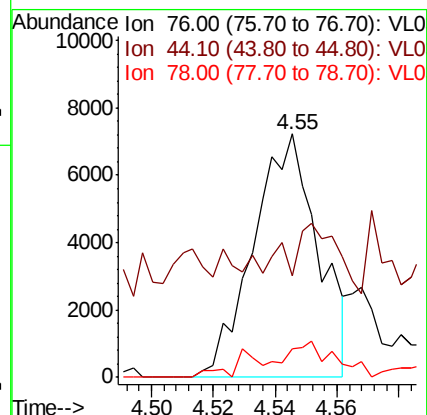
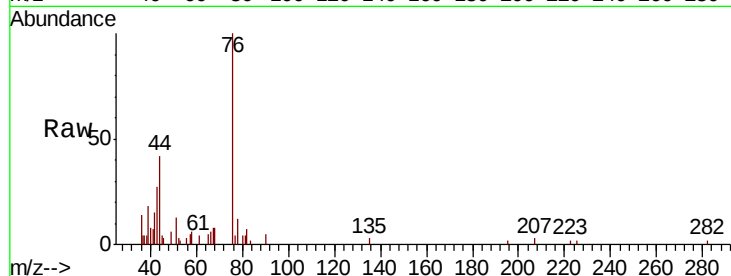
Tot Ion: 76 Resp: 10517

Ion Ratio Lower Upper

76 100

44 0.0 15.4 23.2#

78 16.1 8.0 12.0#



#29

Chloroform

Concen: 0.058 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.02 min

Lab File: VL037236.D

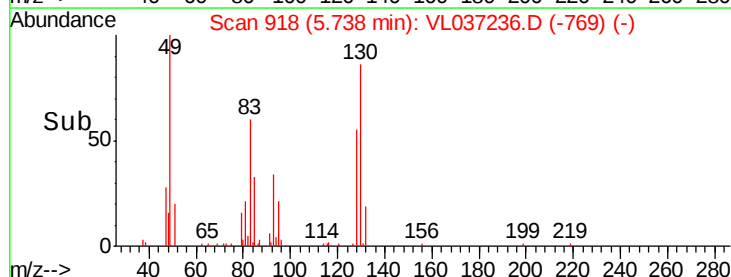
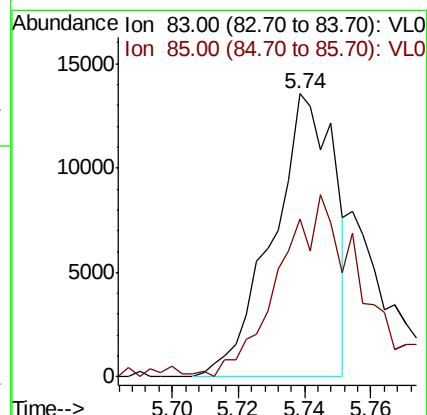
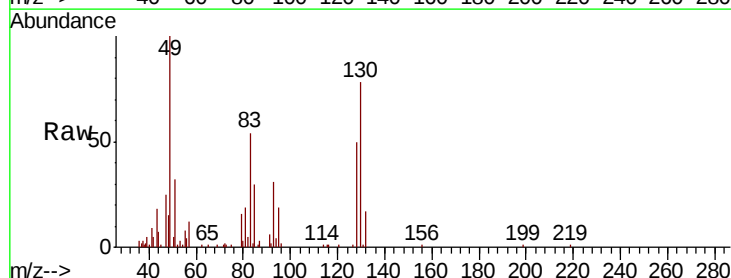
Acq: 23 Jun 2021 6:48

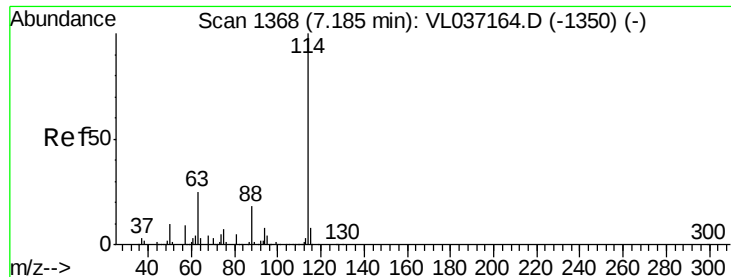
Tgt Ion: 83 Resp: 17682

Ion Ratio Lower Upper

83 100

85 54.5 53.6 80.4

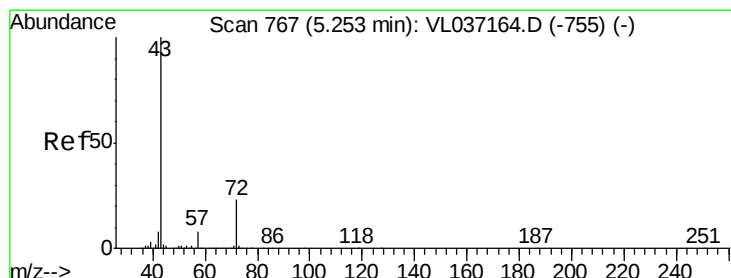
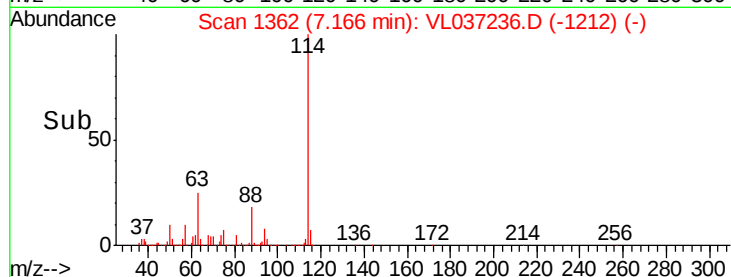
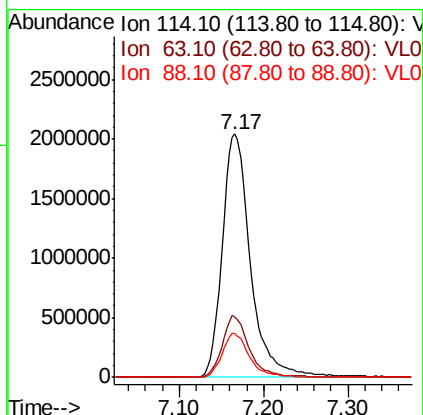
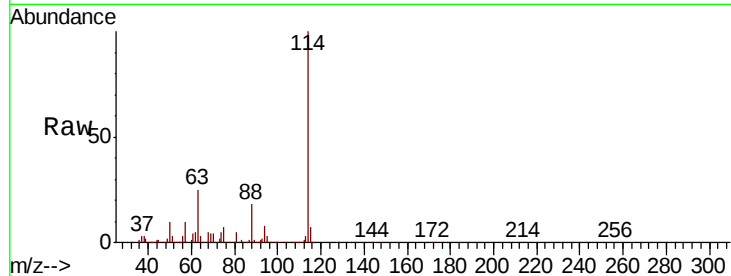




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL037236.D
 Acq: 23 Jun 2021 6:48

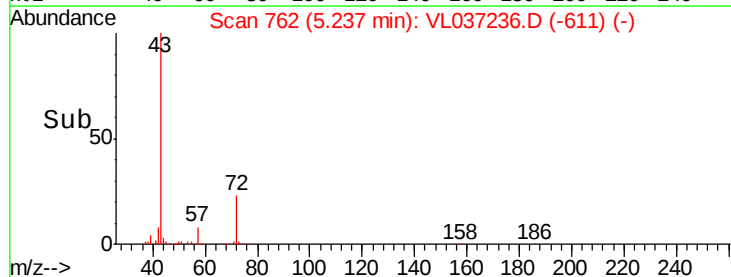
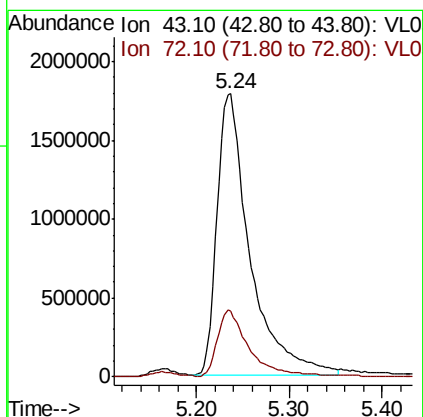
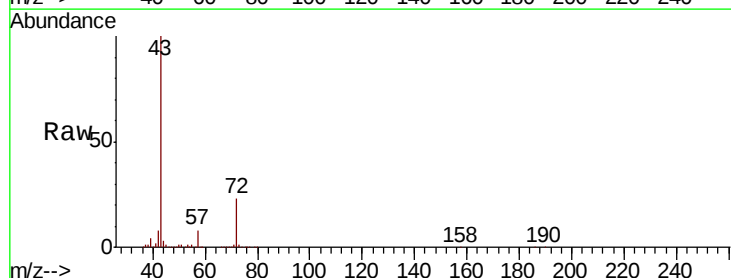
Instrument :
 MSVOA_L
 ClientSampleId :

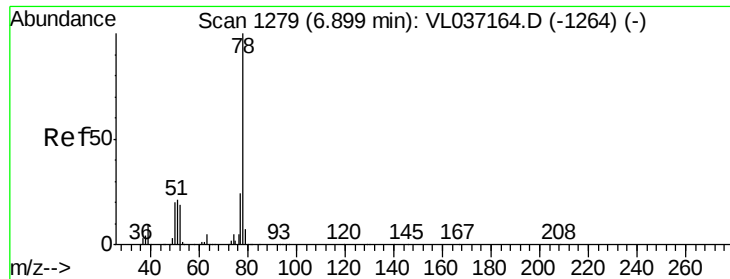
Tot Ion:114 Resp: 4730620
 Ion Ratio Lower Upper
 114 100
 63 24.5 19.6 29.4
 88 17.8 14.2 21.2



#34
 2-Butanone
 Concen: 23.900 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VL037236.D
 Acq: 23 Jun 2021 6:48

Tgt Ion: 43 Resp: 4397065
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.9 28.3

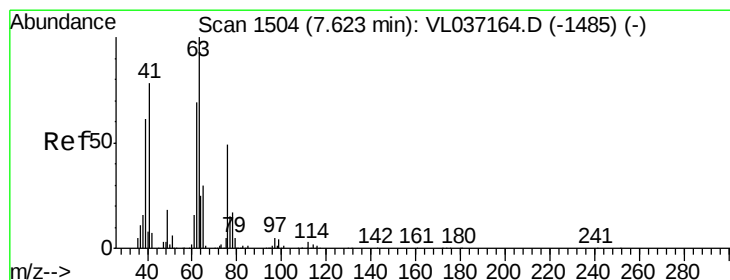
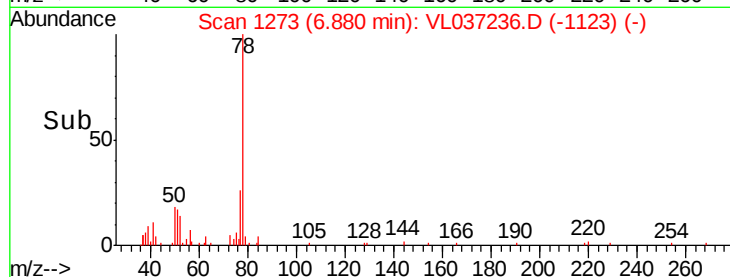
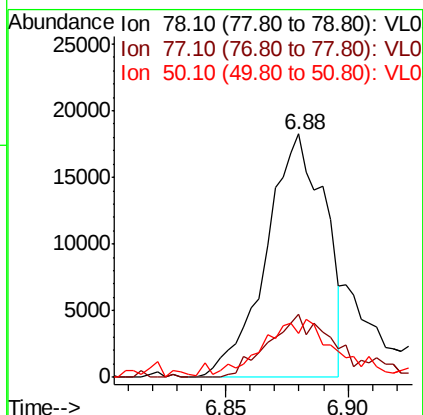
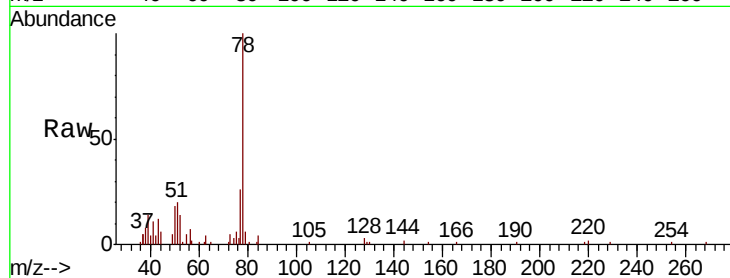




#36
Benzene
Concen: 0.080 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

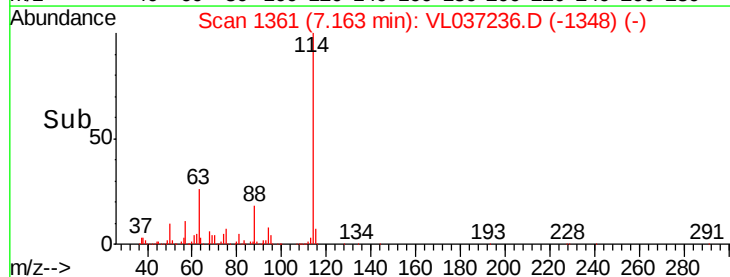
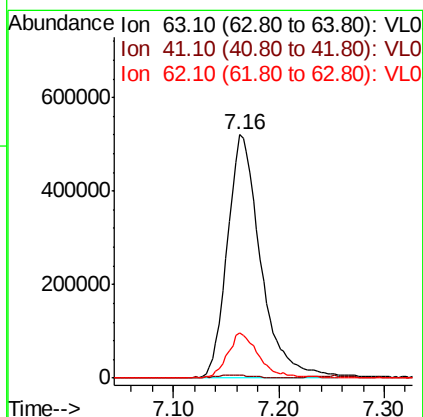
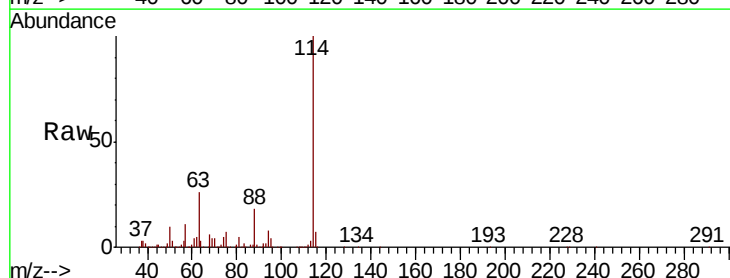
Instrument :
MSVOA_L
ClientSampleId :

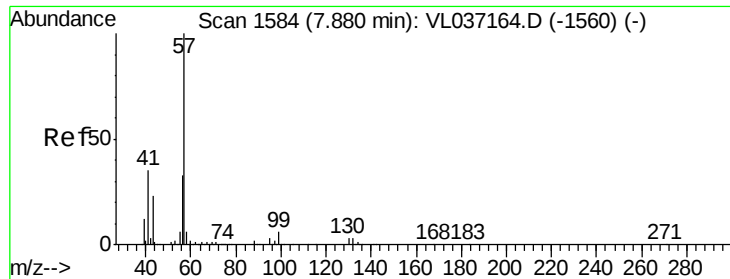
Tot Ion: 78 Resp: 30599
Ion Ratio Lower Upper
78 100
77 25.8 19.0 28.6
50 16.9 15.7 23.5



#39
1,2-Dichloropropane
Concen: 8.019 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.46 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

Tgt Ion: 63 Resp: 1139860
Ion Ratio Lower Upper
63 100
41 0.6 62.0 93.0#
62 18.4 54.9 82.3#





#44

2,2,4-Trimethylpentane

Concen: 0.027 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.02 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

ClientSampleId :

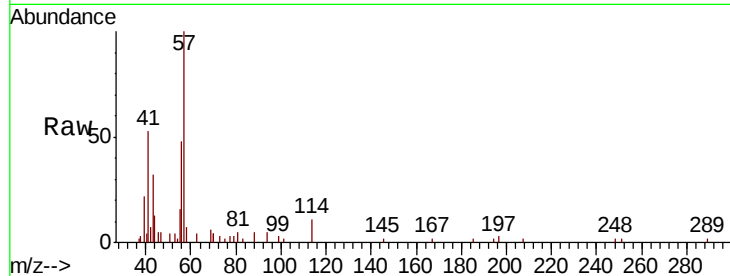
Tot Ion: 57 Resp: 17460

Ion Ratio Lower Upper

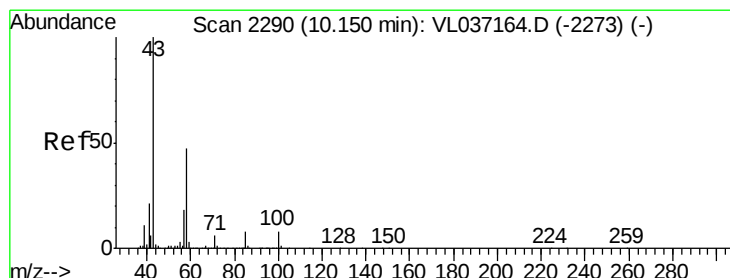
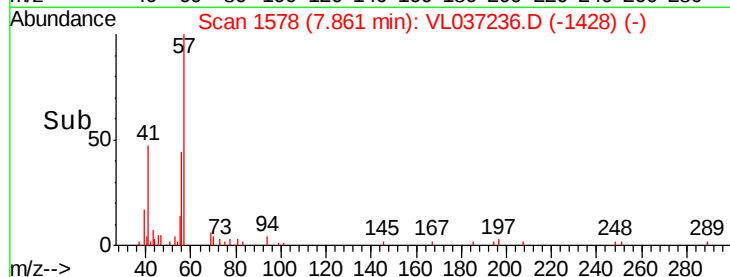
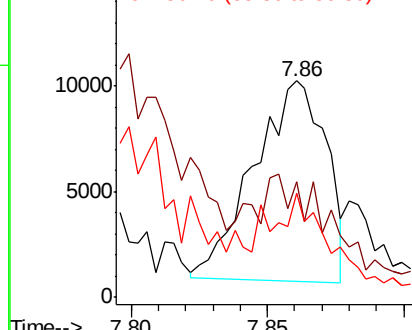
57 100

41 55.0 27.6 41.4#

56 50.4 25.3 37.9#



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



#51

2-Hexanone

Concen: 2.287 ppbv

RT: 10.14 min Scan# 2287

Delta R.T. -0.01 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

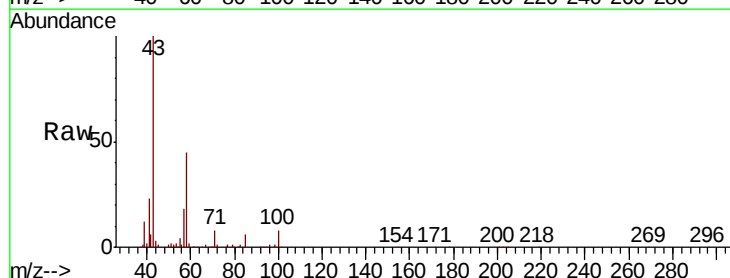
Tgt Ion: 43 Resp: 281133

Ion Ratio Lower Upper

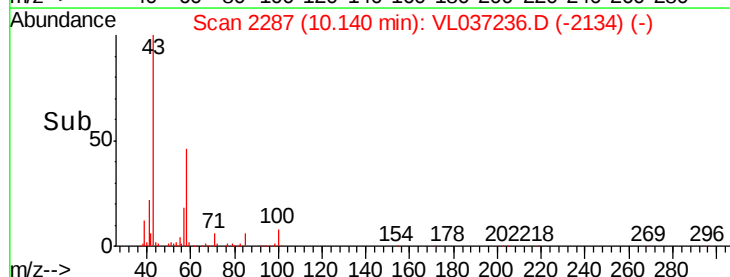
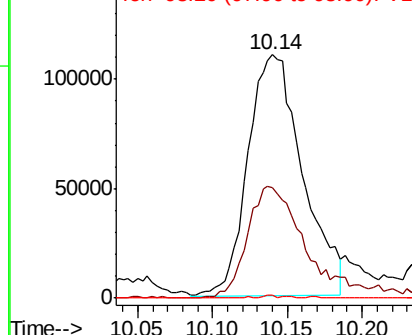
43 100

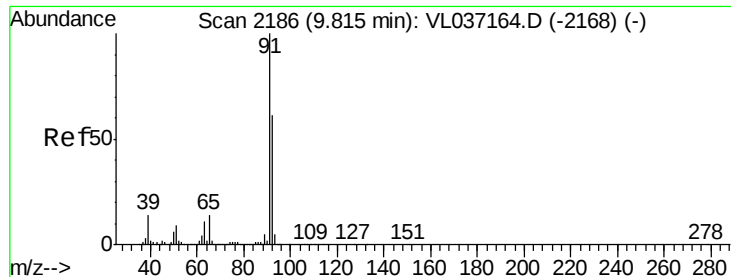
58 53.4 38.4 57.6

98 0.7 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0





#53

Toluene

Concen: 0.334 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.02 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

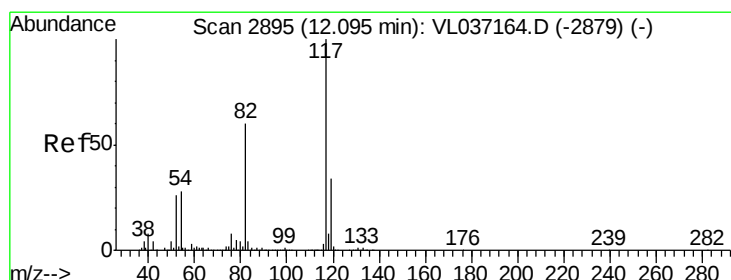
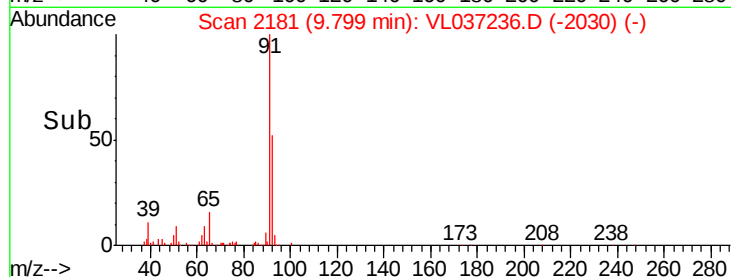
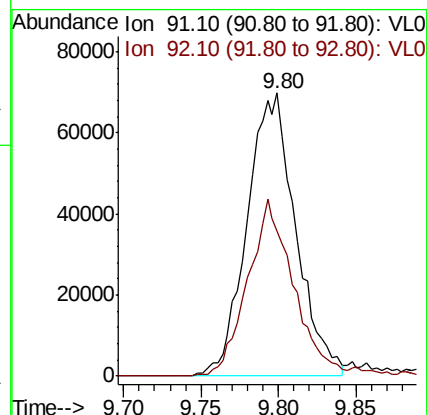
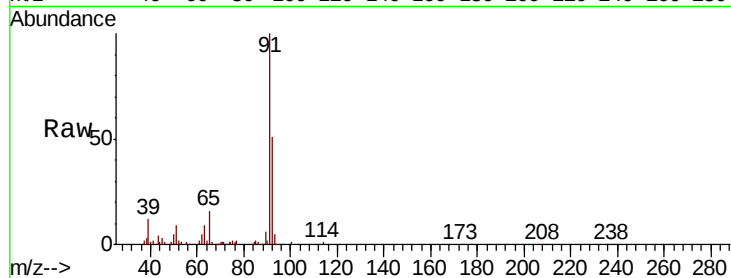
ClientSampleId :

Tot Ion: 91 Resp: 152801

Ion Ratio Lower Upper

91 100

92 61.0 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

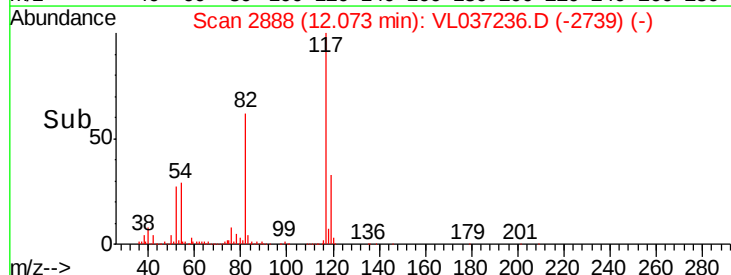
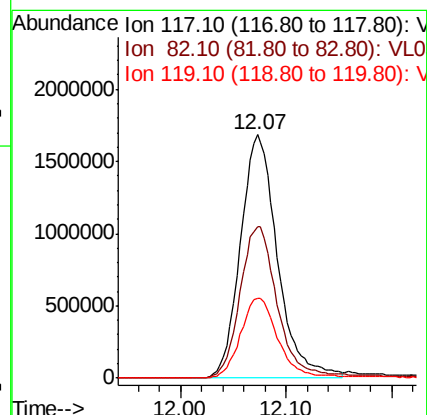
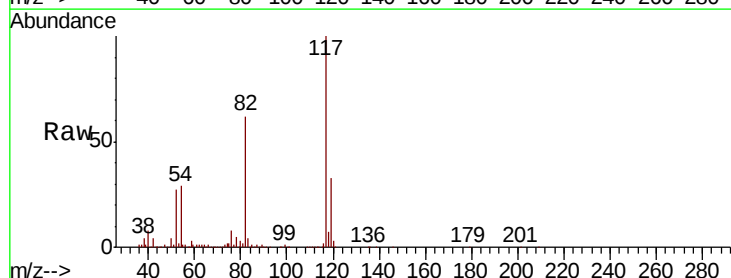
Tgt Ion: 117 Resp: 4116010

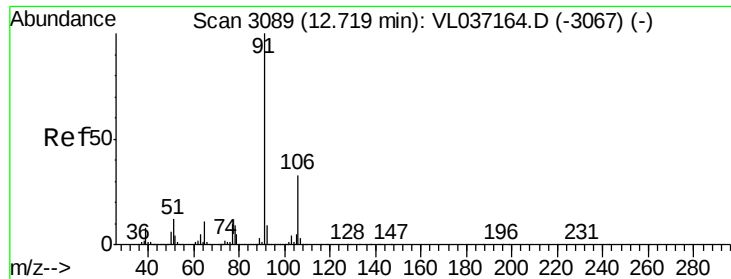
Ion Ratio Lower Upper

117 100

82 64.8 51.7 77.5

119 34.4 47.6 71.4#





#58

Ethyl Benzene

Concen: 0.066 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.02 min

Lab File: VL037236.D

Acq: 23 Jun 2021 6:48

Instrument :

MSVOA_L

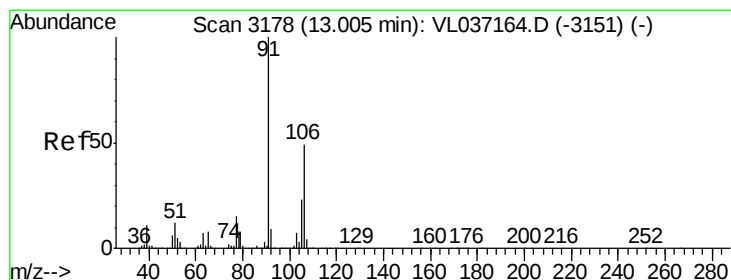
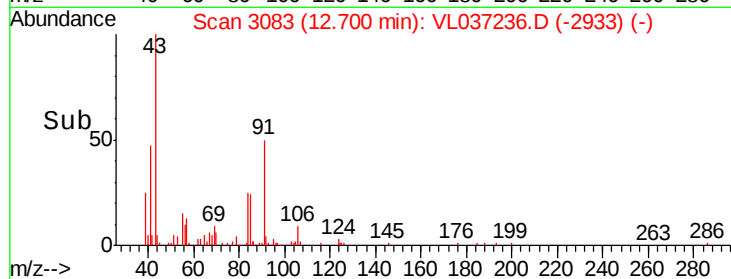
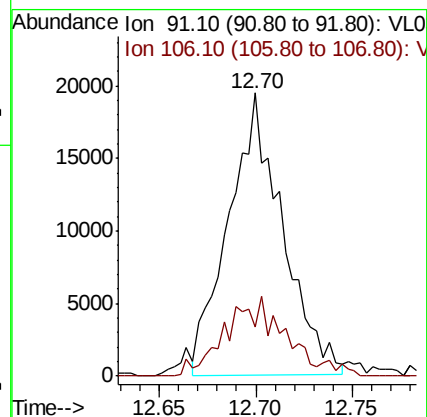
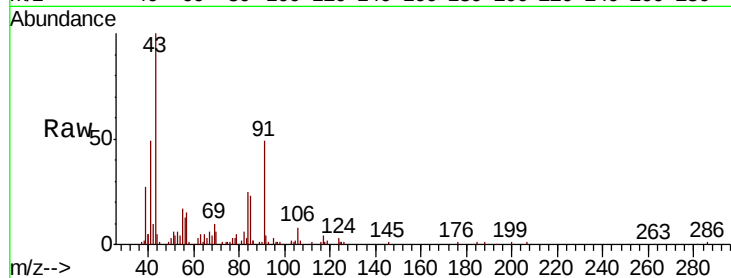
ClientSampleId :

Tot Ion: 91 Resp: 37587

Ion Ratio Lower Upper

91 100

106 15.2 26.3 39.5#



#59

m/p-Xylene

Concen: 0.023 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.03 min

Lab File: VL037236.D

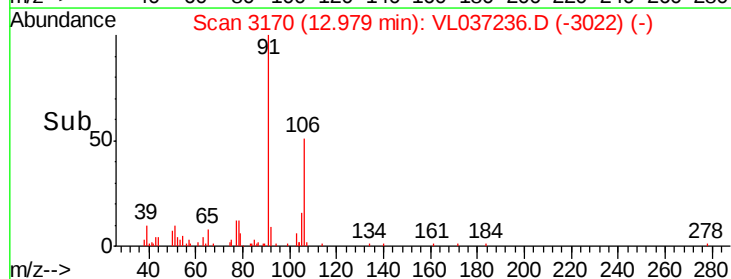
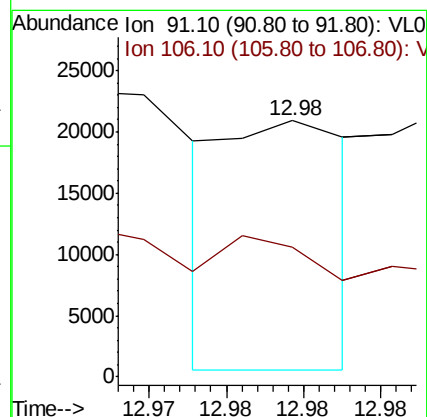
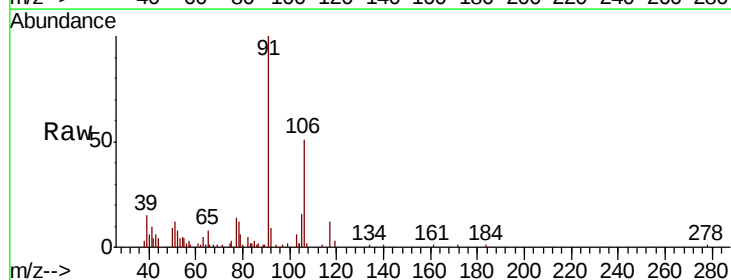
Acq: 23 Jun 2021 6:48

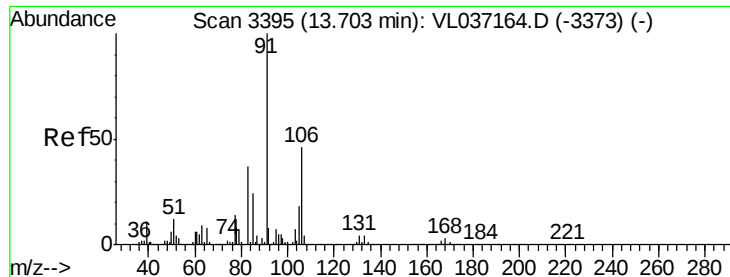
Tgt Ion: 91 Resp: 11252

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.4#

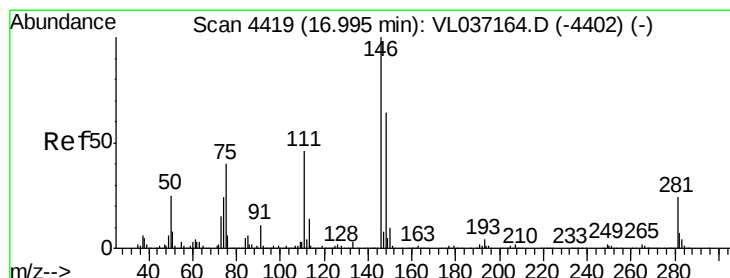
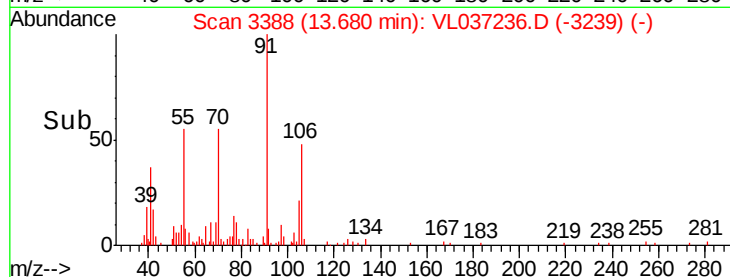
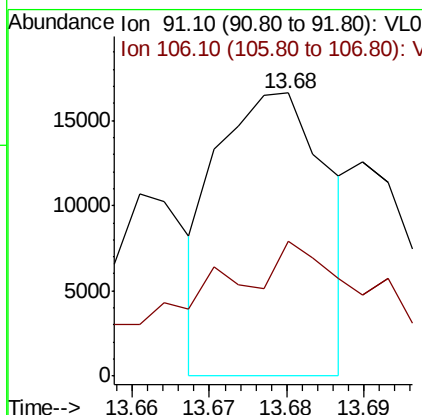
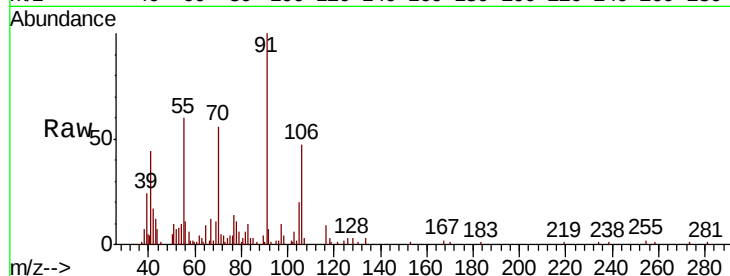




#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.02 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

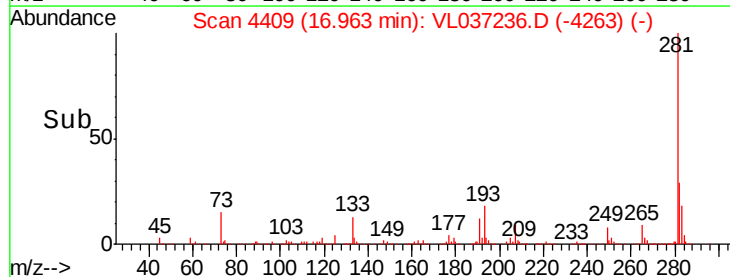
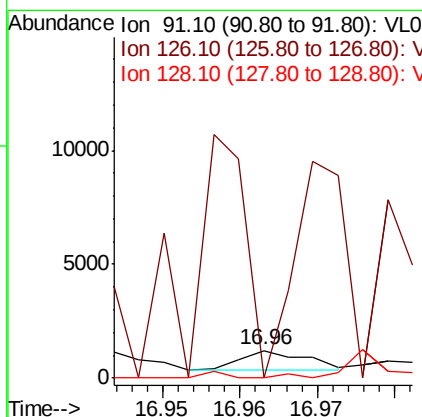
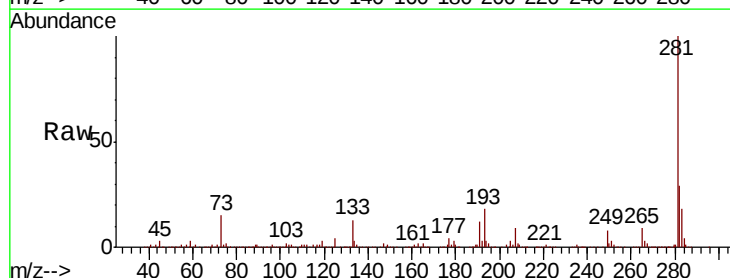
Instrument :
MSVOA_L
ClientSampleId :

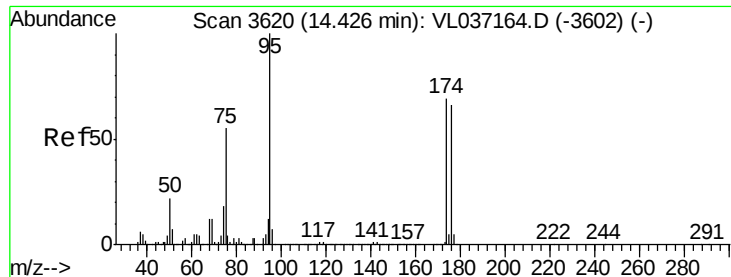
Tot Ion: 91 Resp: 16560
Ion Ratio Lower Upper
91 100
106 105.1 23.0 69.0#



#66
Benzyl Chloride
Concen: 0.021 ppbv
RT: 16.96 min Scan# 4409
Delta R.T. -0.03 min
Lab File: VL037236.D
Acq: 23 Jun 2021 6:48

Tgt Ion: 91 Resp: 525
Ion Ratio Lower Upper
91 100
126 2249.1 15.5 23.3#
128 0.0 5.7 8.5#

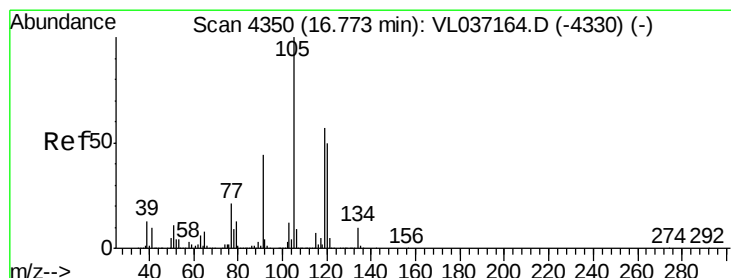
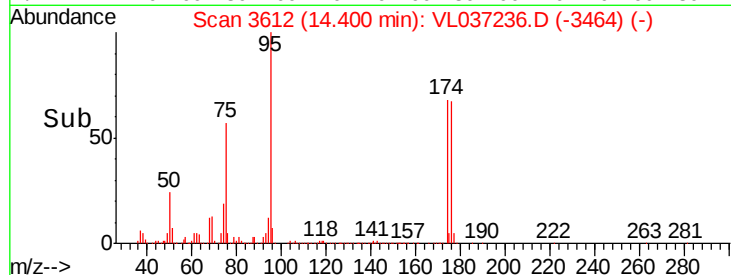
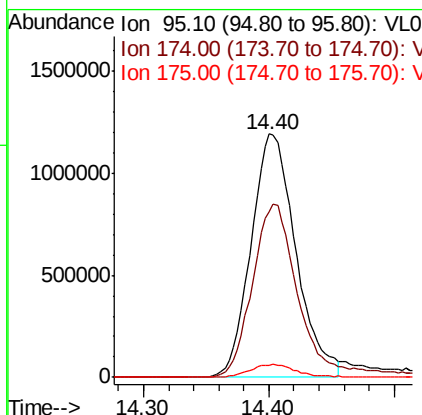
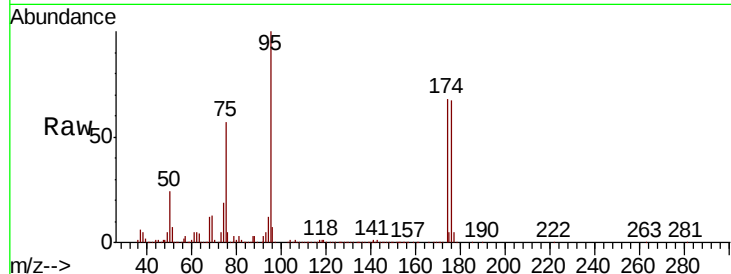




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.499 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.03 min
 Lab File: VL037236.D
 Acq: 23 Jun 2021 6:48

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2962627
 Ion Ratio Lower Upper
 95 100
 174 77.2 57.0 85.4
 175 5.7 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.081 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.03 min
 Lab File: VL037236.D
 Acq: 23 Jun 2021 6:48

Tgt Ion: 105 Resp: 42051
 Ion Ratio Lower Upper
 105 100
 120 47.3 39.8 59.8
 91 13.8 37.0 55.4#
 77 13.7 17.0 25.4#

