

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037075.D
 Acq On : 1 Jun 2021 18:18
 Operator : SY/AP
 Sample : M2559-03DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:02:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1567140	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4707324	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4238794	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3201249	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

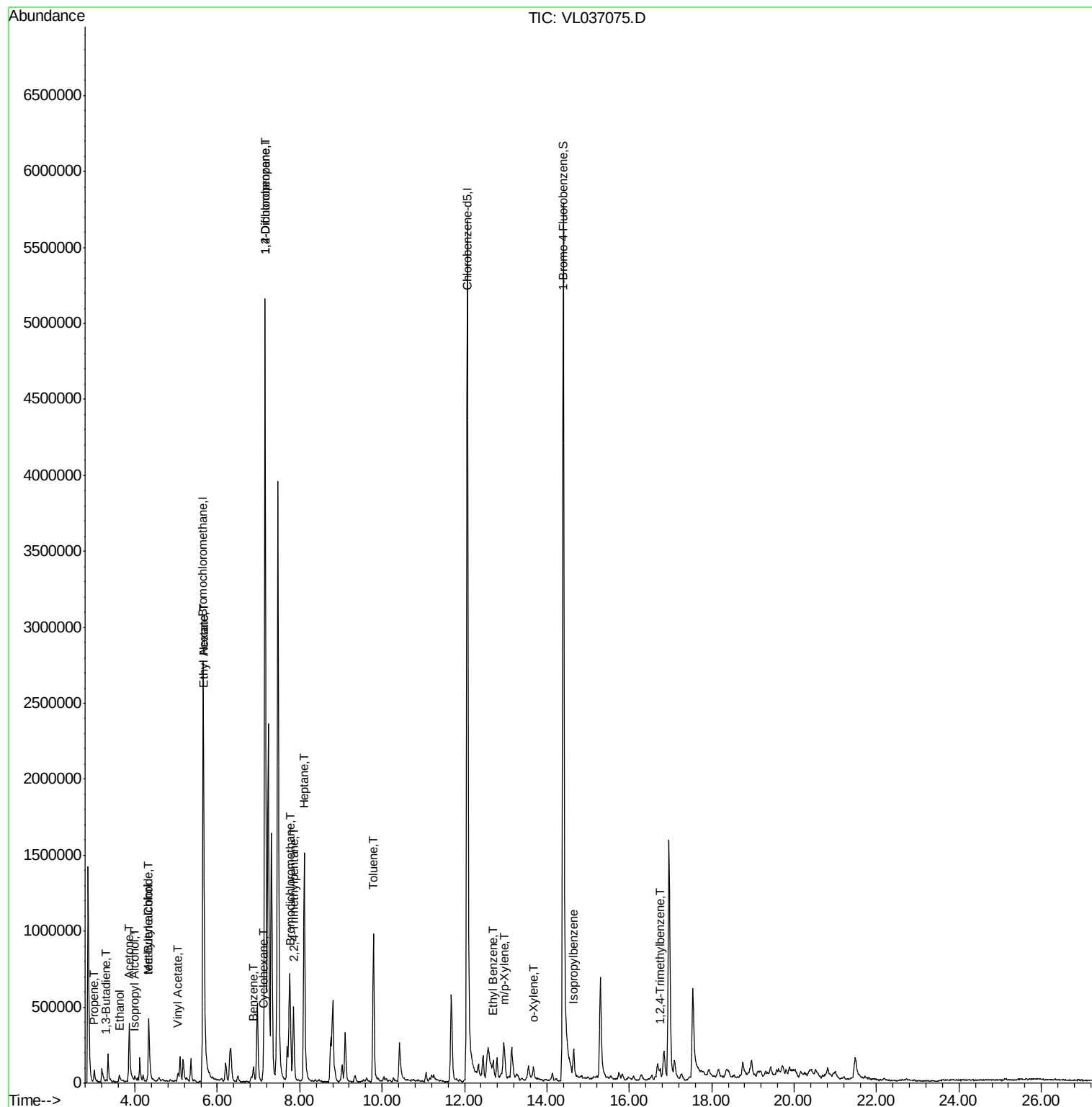
Target Compounds					Ovalue
9) Propene	3.01	41	21083	0.205 ppbv	93
10) Heptane	8.11	43	759802	2.966 ppbv	100
13) Ethanol	3.61	45	29179	2.127 ppbv #	2
15) Acetone	3.86	43	373396	2.326 ppbv	97
16) 1,3-Butadiene	3.30	39	3289	0.033 ppbv #	43
17) tert-Butyl alcohol	4.33	59	8135	0.055 ppbv #	31
19) Isopropyl Alcohol	4.00	45	6163	0.071 ppbv #	30
20) Methylene Chloride	4.33	84	155454	1.807 ppbv	96
23) Vinyl Acetate	5.05	43	8439	0.033 ppbv #	1
25) Ethyl Acetate	5.67	43	124935	0.324 ppbv #	78
26) Hexane	5.67	57	176841	0.897 ppbv #	48
30) Cyclohexane	7.11	84	19604	0.117 ppbv #	7
36) Benzene	6.88	78	78370	0.193 ppbv	94
39) 1,2-Dichloropropane	7.16	63	1109436	7.103 ppbv #	25
42) Bromodichloromethane	7.78	83	20893	0.069 ppbv #	25
44) 2,2,4-Trimethylpentane	7.85	57	48099	0.069 ppbv #	1
53) Toluene	9.79	91	866977	1.797 ppbv	99
58) Ethyl Benzene	12.69	91	94495	0.158 ppbv	97
59) m/p-Xylene	12.98	91	62070	0.126 ppbv #	30
60) o-Xylene	13.68	91	57479	0.122 ppbv	99
62) Isopropylbenzene	14.66	105	173112	0.255 ppbv	97
74) 1,2,4-Trimethylbenzene	16.75	105	42295	0.078 ppbv #	69

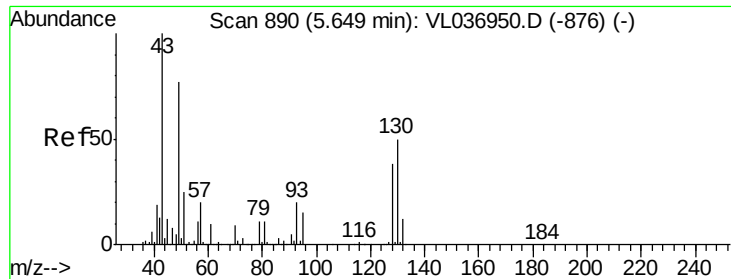
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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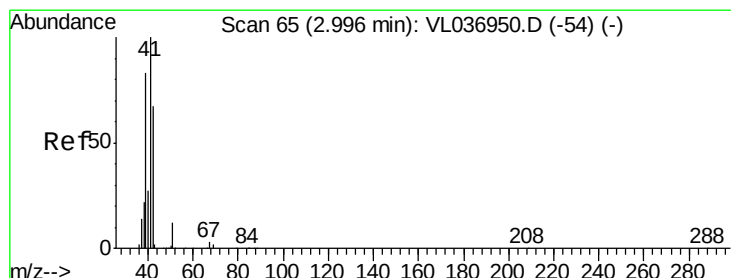
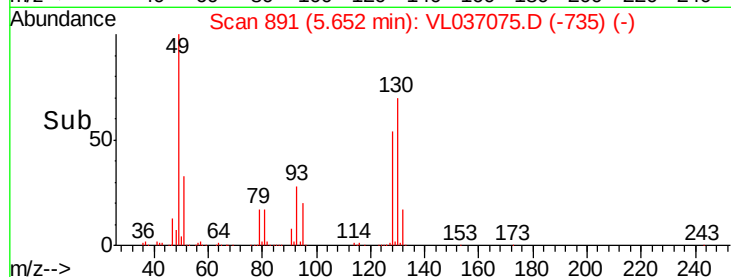
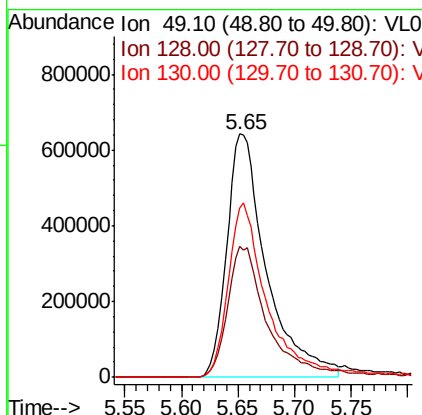
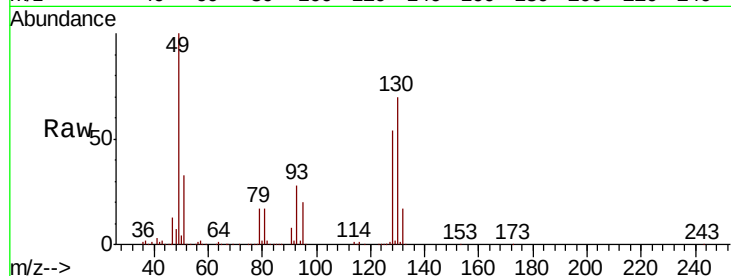




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VL037075.D
 Acq: 1 Jun 2021 18:18

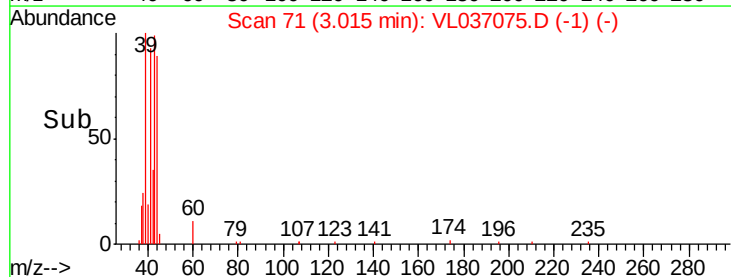
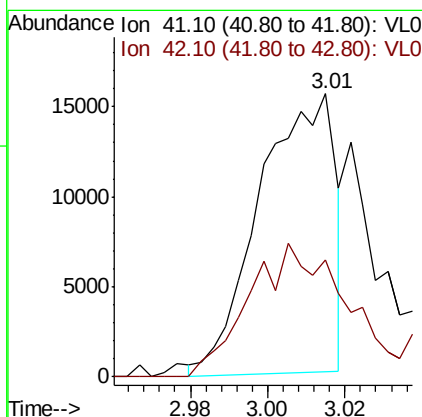
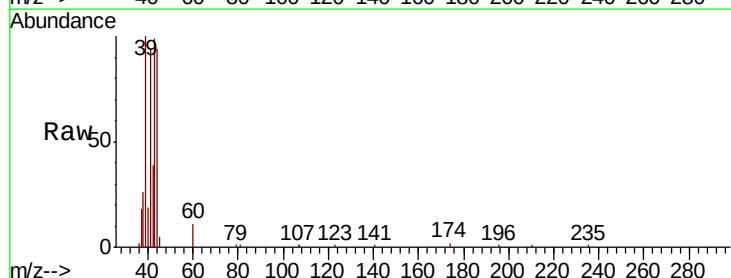
Instrument :
 MSVOA_L
 ClientSampleId :

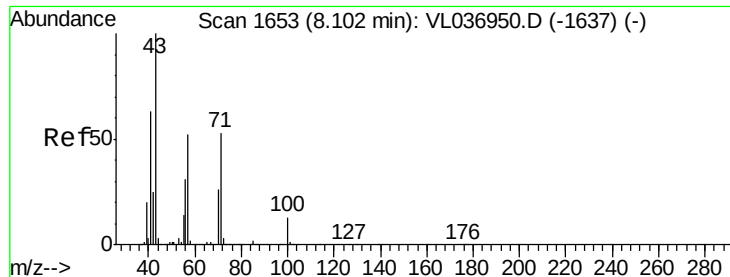
Tot Ion: 49 Resp: 1567140
 Ion Ratio Lower Upper
 49 100
 128 56.2 26.9 80.7
 130 72.8 33.8 101.4



#9
 Propene
 Concen: 0.205 ppbv
 RT: 3.01 min Scan# 71
 Delta R.T. 0.02 min
 Lab File: VL037075.D
 Acq: 1 Jun 2021 18:18

Tgt Ion: 41 Resp: 21083
 Ion Ratio Lower Upper
 41 100
 42 72.8 53.9 80.9

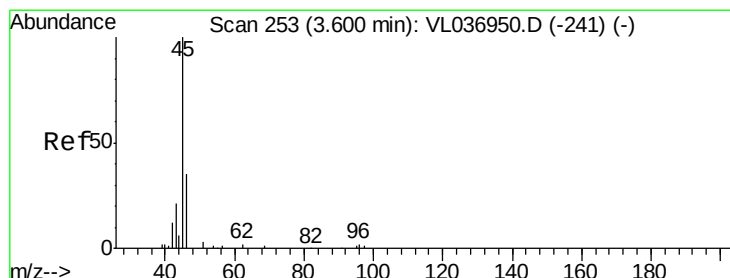
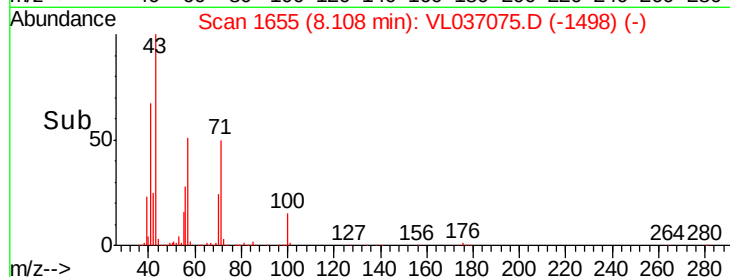
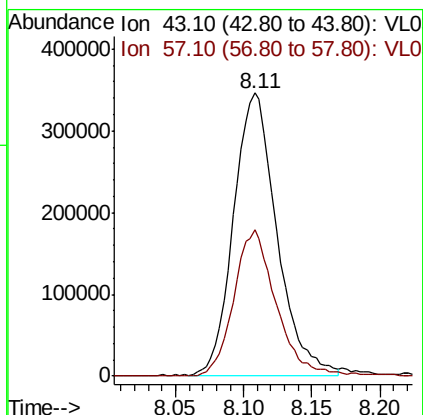
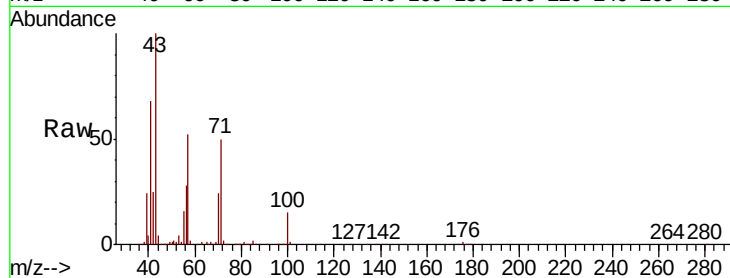




#10
 Heptane
 Concen: 2.966 ppbv
 RT: 8.11 min Scan# 1655
 Delta R.T. 0.01 min
 Lab File: VL037075.D
 Acq: 1 Jun 2021 18:18

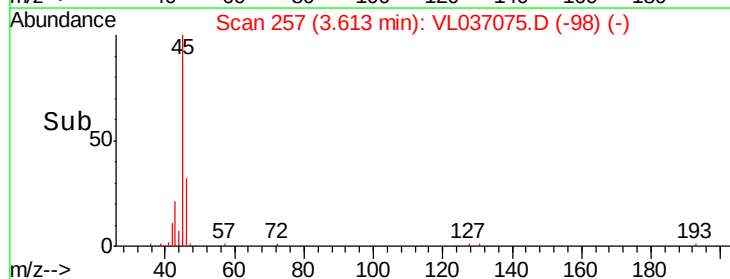
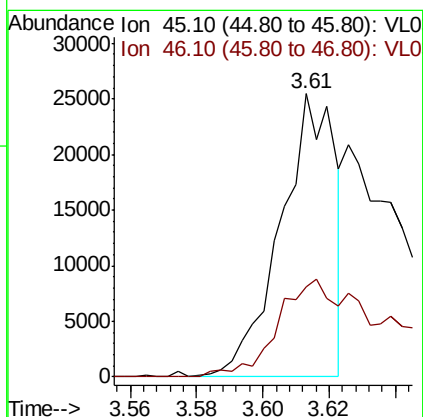
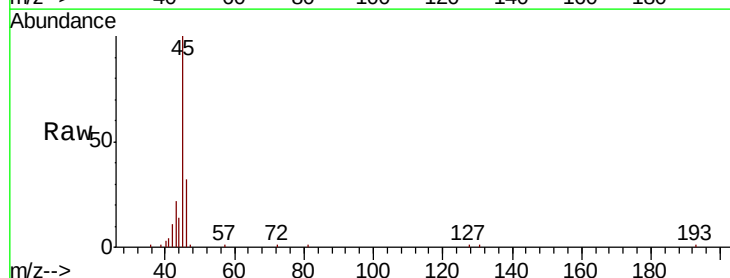
Instrument :
 MSVOA_L
 ClientSampleId :

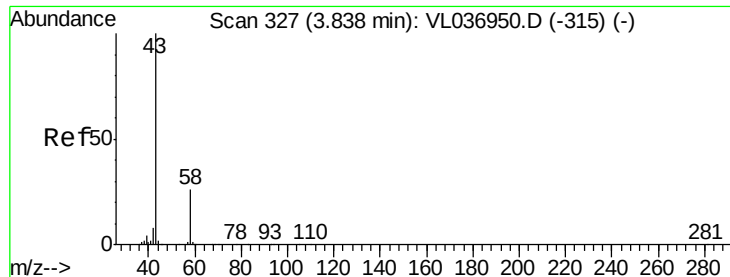
Tot Ion: 43 Resp: 759802
 Ion Ratio Lower Upper
 43 100
 57 51.0 41.0 61.6



#13
 Ethanol
 Concen: 2.127 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL037075.D
 Acq: 1 Jun 2021 18:18

Tgt Ion: 45 Resp: 29179
 Ion Ratio Lower Upper
 45 100
 46 101.8 16.3 65.3#





#15

Acetone

Concen: 2.326 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

Instrument :

MSVOA_L

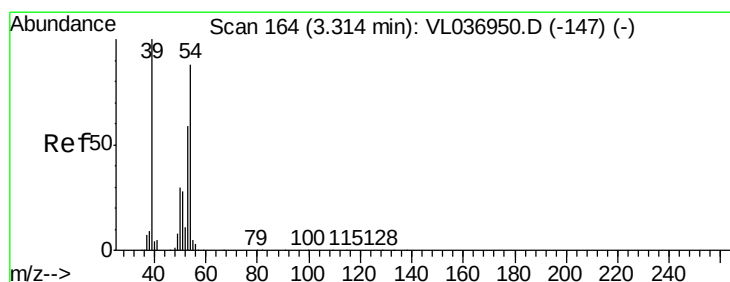
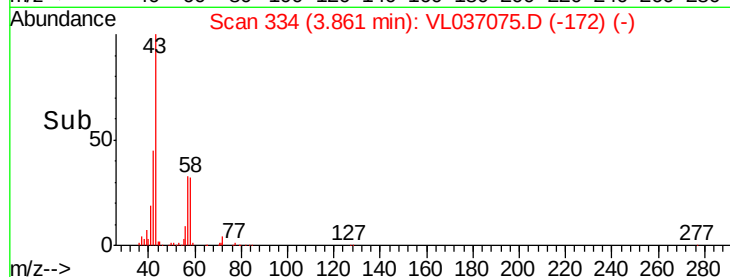
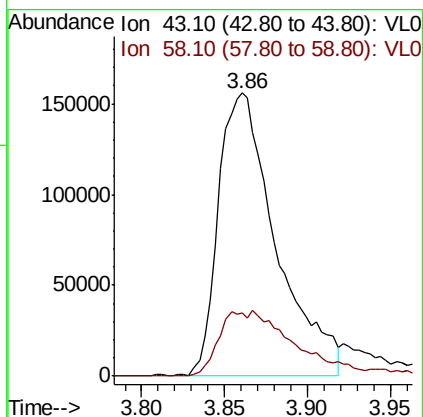
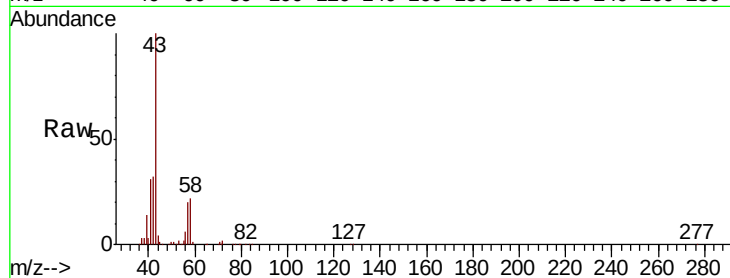
ClientSampleId :

Tot Ion: 43 Resp: 373396

Ion Ratio Lower Upper

43 100

58 31.8 24.0 36.0



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.01 min

Lab File: VL037075.D

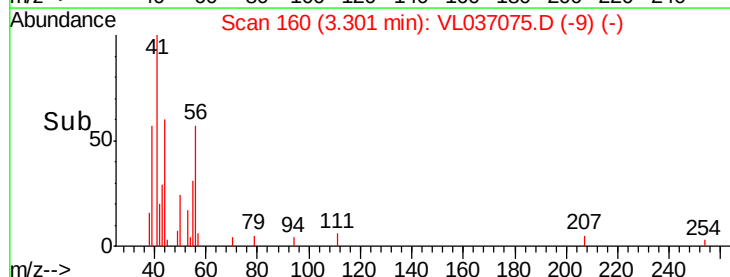
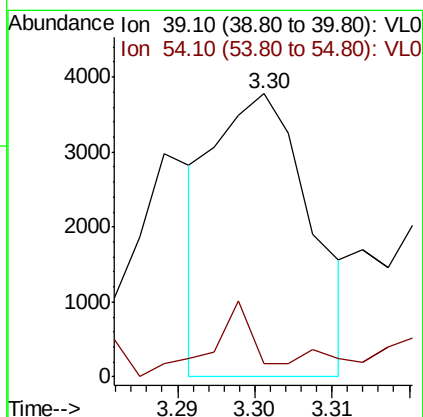
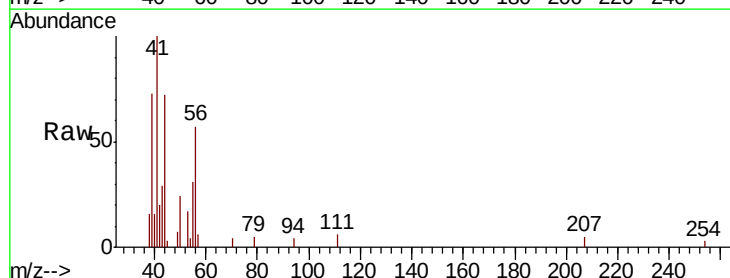
Acq: 1 Jun 2021 18:18

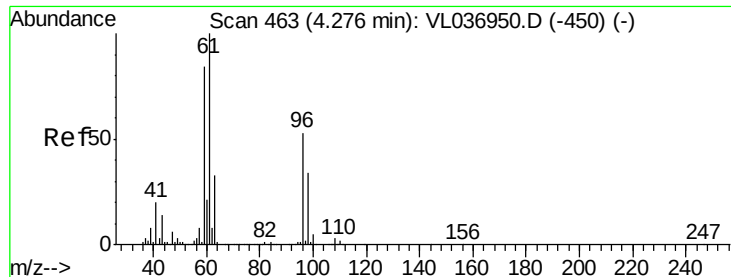
Tgt Ion: 39 Resp: 3289

Ion Ratio Lower Upper

39 100

54 28.7 63.2 94.8#





#17

tert-Butyl alcohol

Concen: 0.055 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.05 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

Instrument :

MSVOA_L

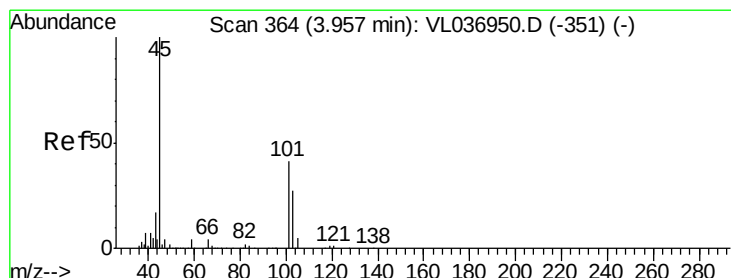
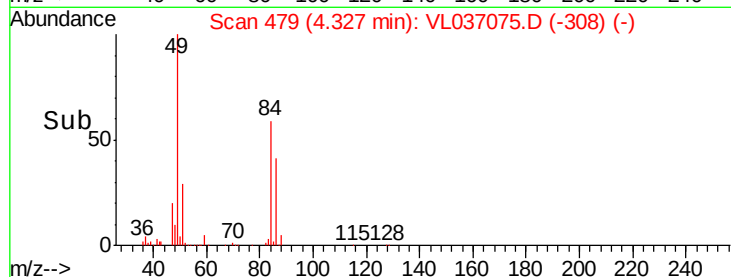
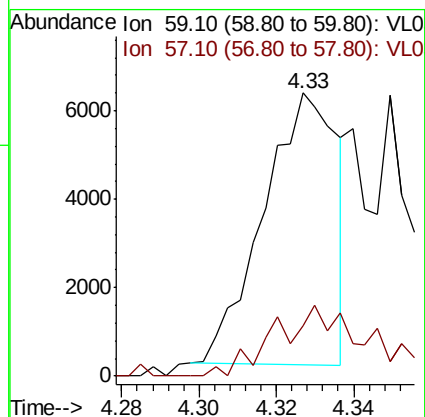
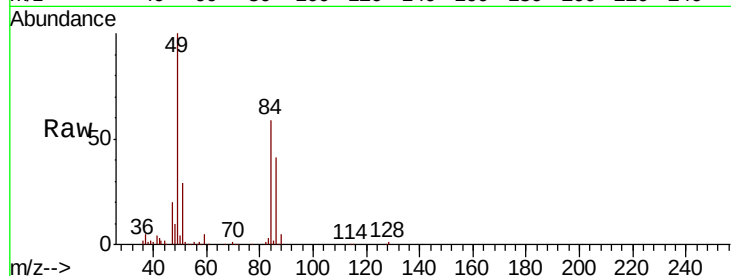
ClientSampleId :

Tot Ion: 59 Resp: 8135

Ion Ratio Lower Upper

59 100

57 36.1 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.071 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.04 min

Lab File: VL037075.D

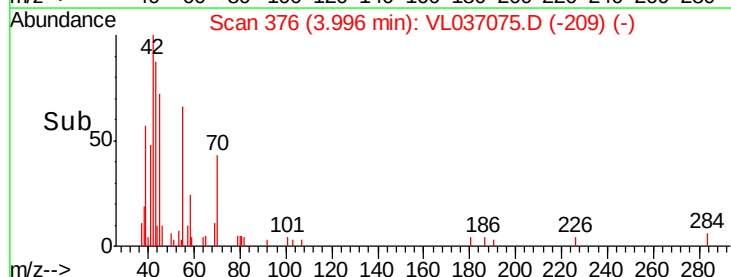
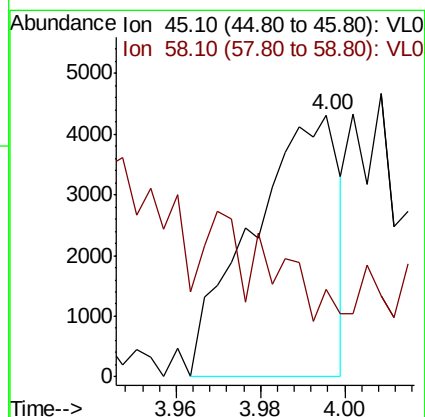
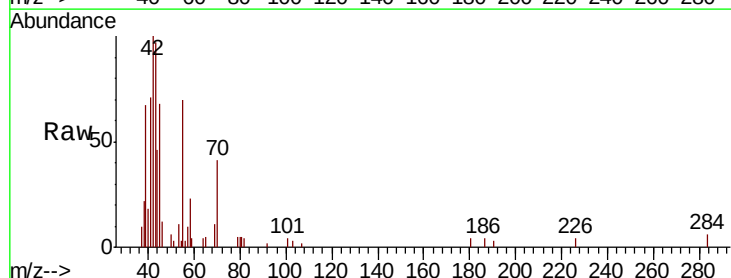
Acq: 1 Jun 2021 18:18

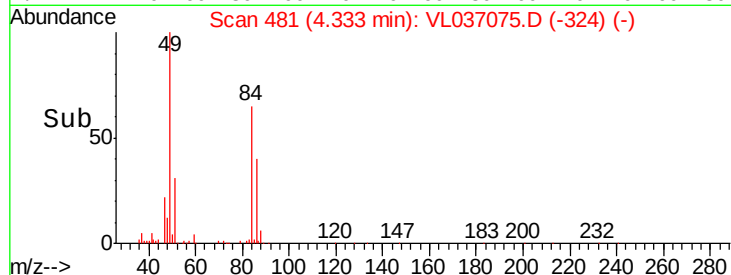
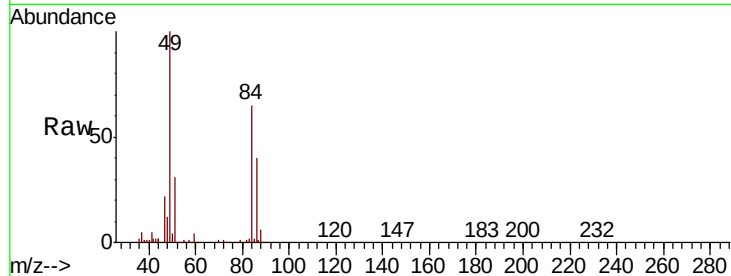
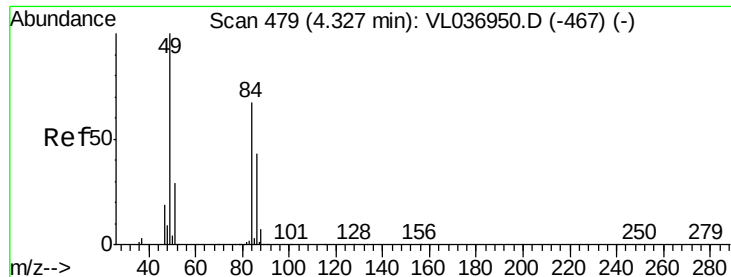
Tgt Ion: 45 Resp: 6163

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#

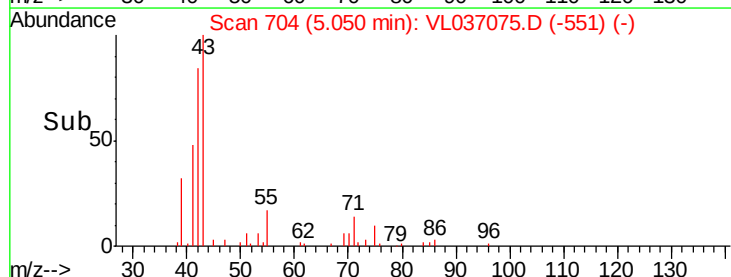
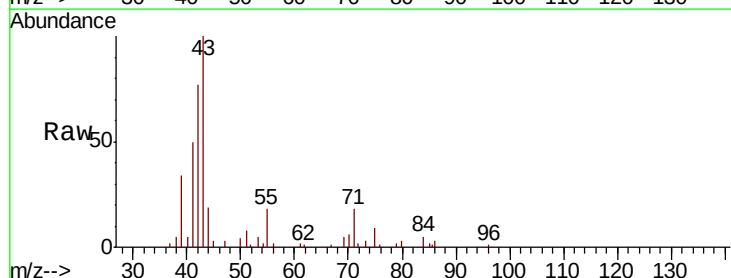
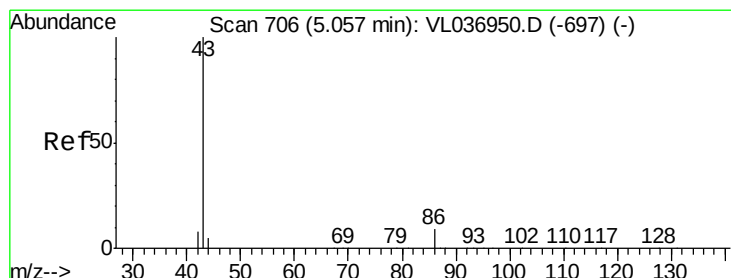
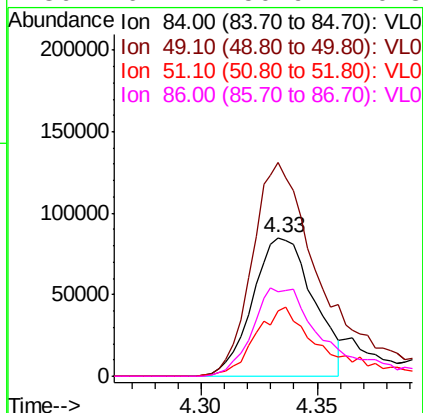




#20
Methylene Chloride
Concen: 1.807 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

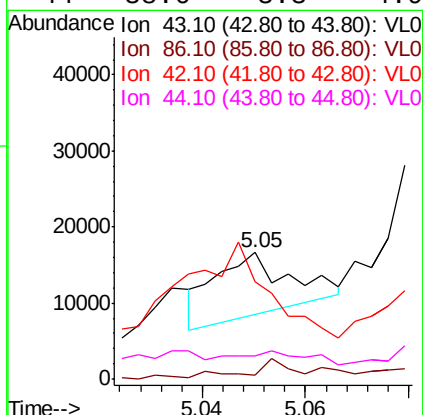
Instrument :
MSVOA_L
ClientSampleId :

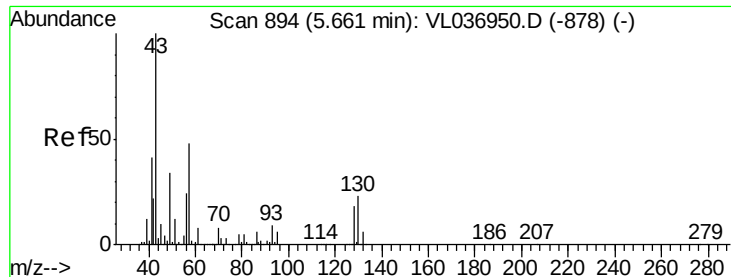
Tot Ion:	84	Resp:	155454
Ion	Ratio	Lower	Upper
84	100		
49	154.1	119.8	179.6
51	47.5	35.1	52.7
86	61.1	50.9	76.3



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.01 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

Tgt Ion:	43	Resp:	8439
Ion	Ratio	Lower	Upper
43	100		
86	5.5	5.8	8.8#
42	153.7	7.4	11.2#
44	38.6	3.3	4.9#

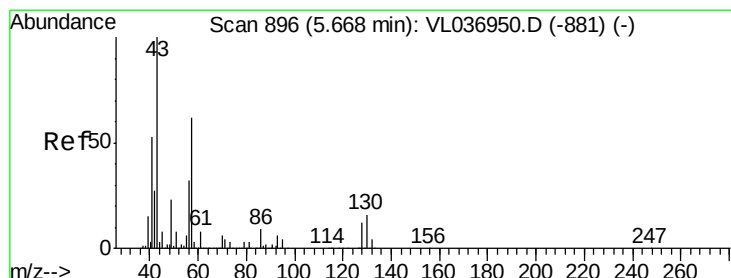
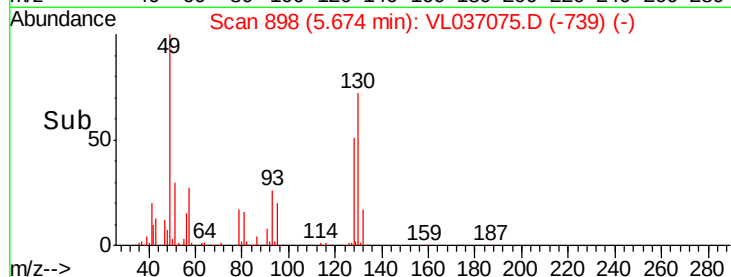
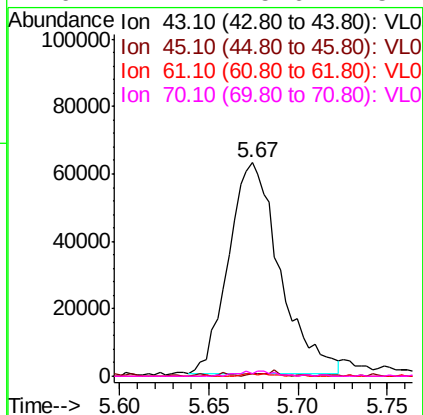
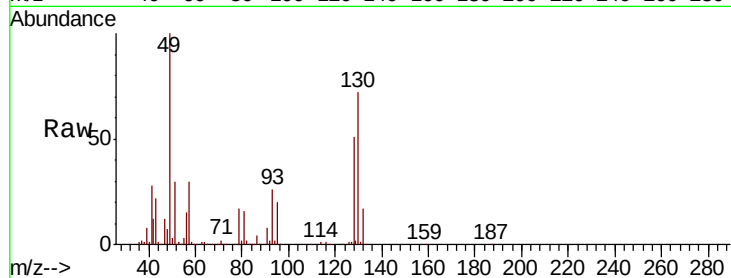




#25
Ethyl Acetate
Concen: 0.324 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

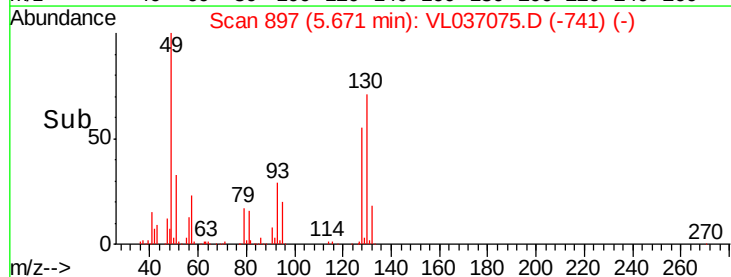
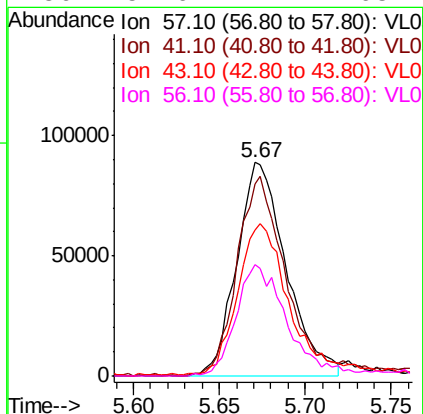
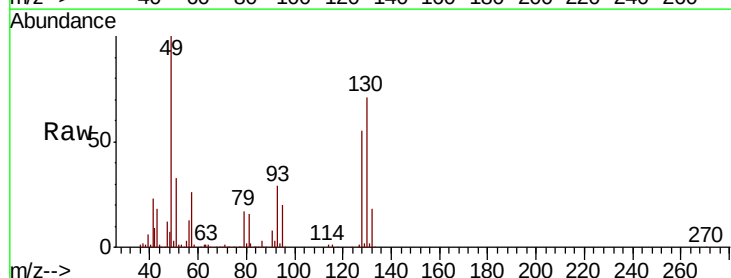
Instrument :
MSVOA_L
ClientSampleID :

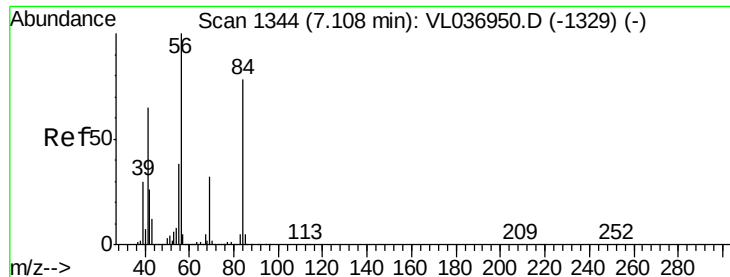
Tot Ion:	43	Resp:	124935
Ion	Ratio	Lower	Upper
43	100		
45	0.8	7.8	11.8#
61	0.8	7.8	11.8#
70	2.1	5.6	8.4#



#26
Hexane
Concen: 0.897 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

Tgt Ion:	57	Resp:	176841
Ion	Ratio	Lower	Upper
57	100		
41	98.0	70.5	105.7
43	79.9	165.8	248.8#
56	54.6	42.2	63.4

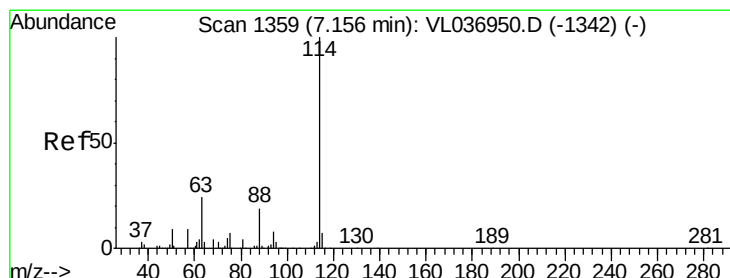
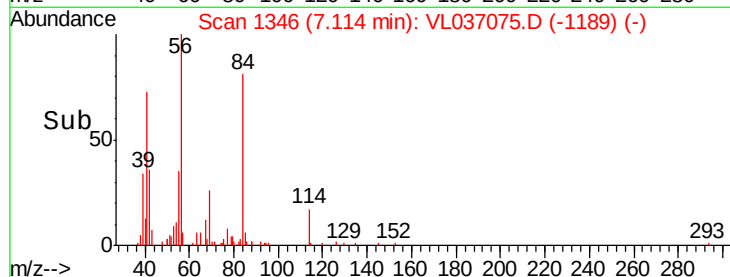
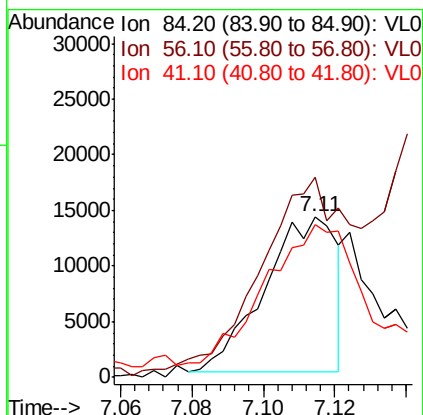
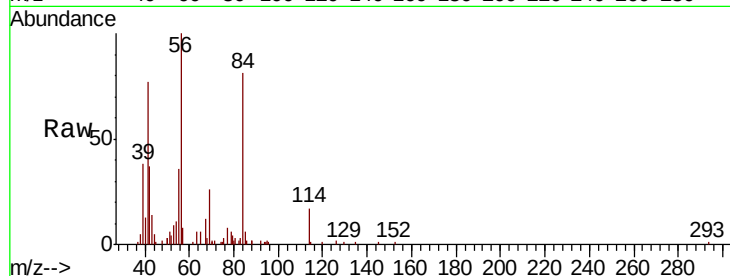




#30
Cyclohexane
Concen: 0.117 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

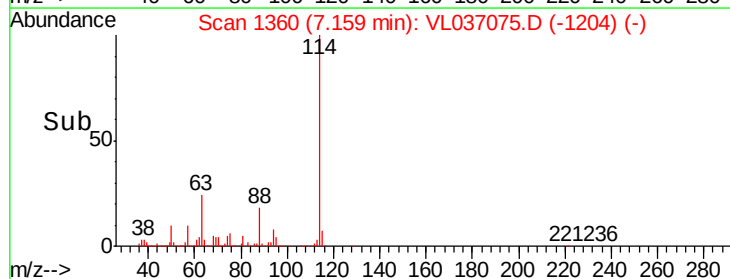
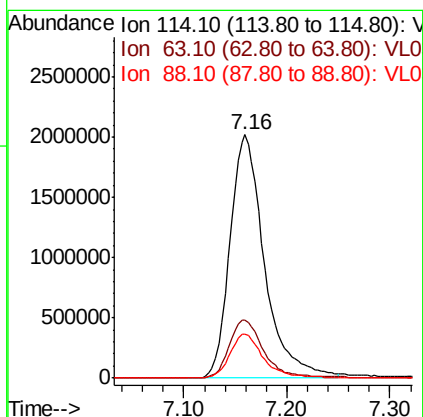
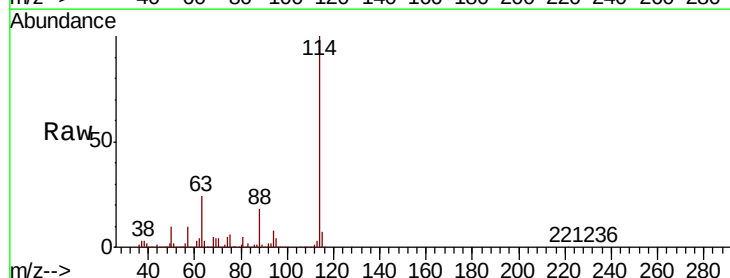
Instrument :
MSVOA_L
ClientSampled :

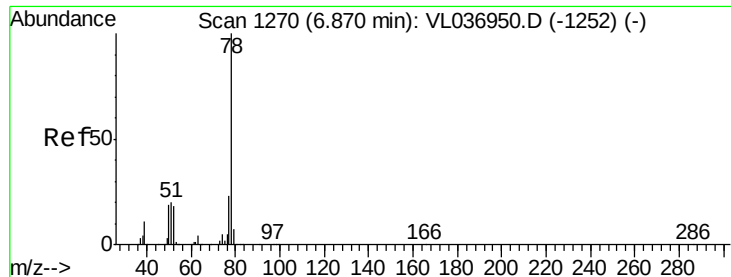
Tot Ion: 84 Resp: 19604
Ion Ratio Lower Upper
84 100
56 0.0 107.9 161.9#
41 134.5 65.5 98.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

Tgt Ion: 114 Resp: 4707324
Ion Ratio Lower Upper
114 100
63 24.4 19.6 29.4
88 18.0 14.6 21.8

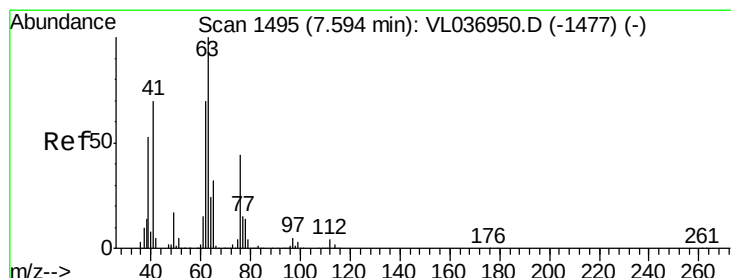
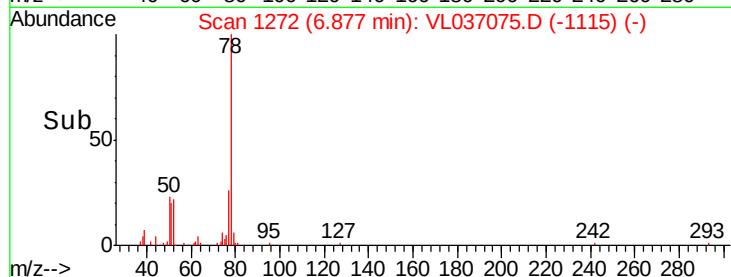
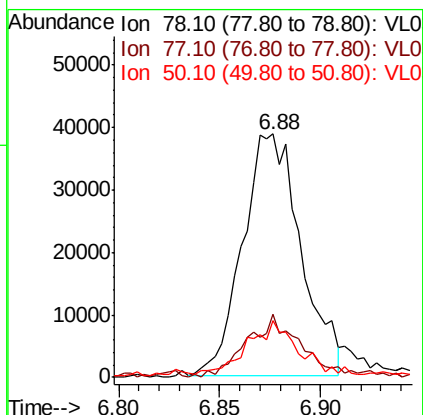
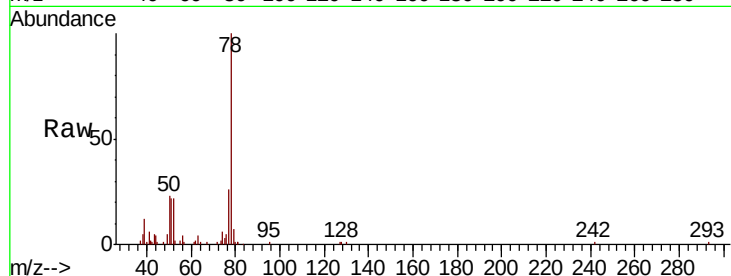




#36
Benzene
Concen: 0.193 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

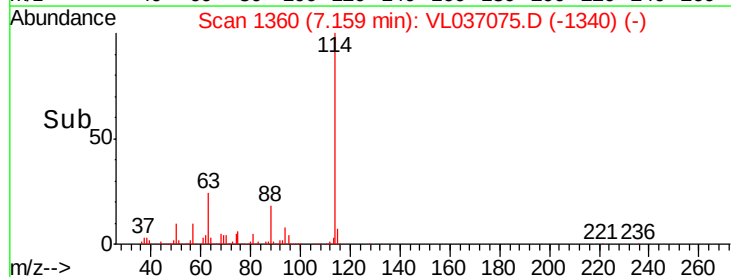
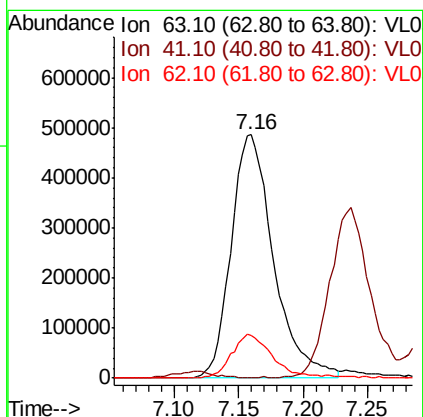
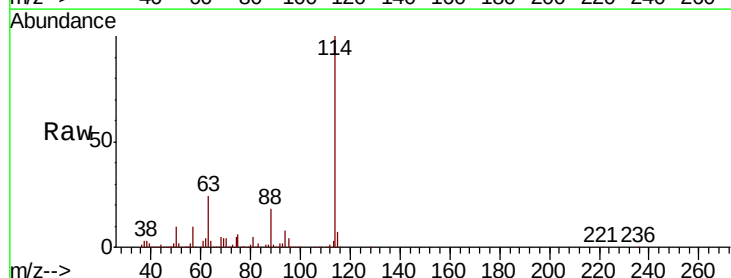
Instrument :
MSVOA_L
ClientSampleId :

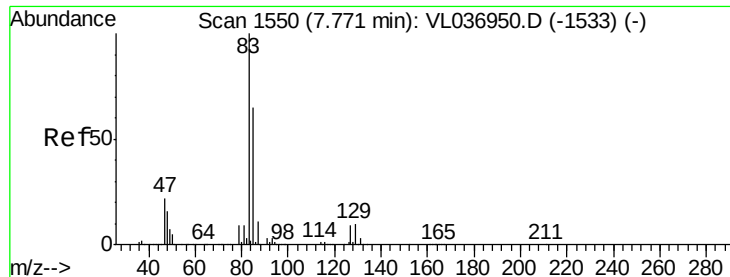
Tot Ion: 78 Resp: 78370
Ion Ratio Lower Upper
78 100
77 25.9 18.6 28.0
50 21.8 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.103 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.43 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

Tgt Ion: 63 Resp: 1109436
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 17.5 56.2 84.4#





#42

Bromodichloromethane

Concen: 0.069 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. 0.01 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

Instrument :

MSVOA_L

ClientSampleId :

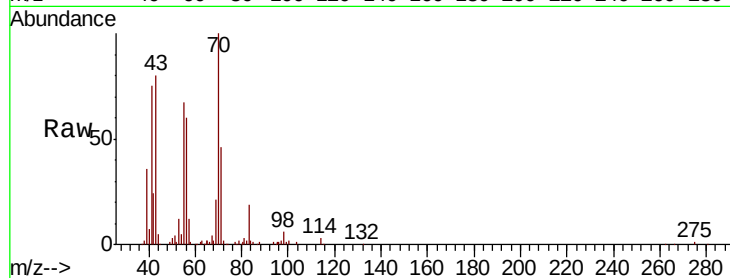
Tot Ion: 83 Resp: 20893

Ion Ratio Lower Upper

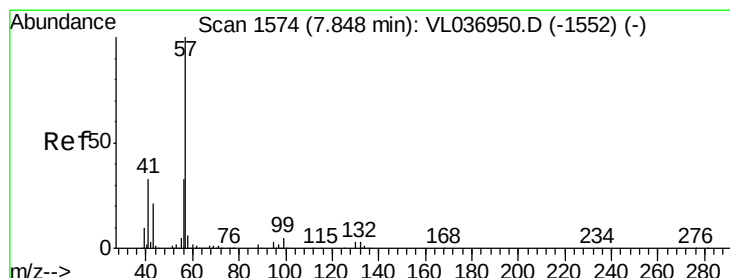
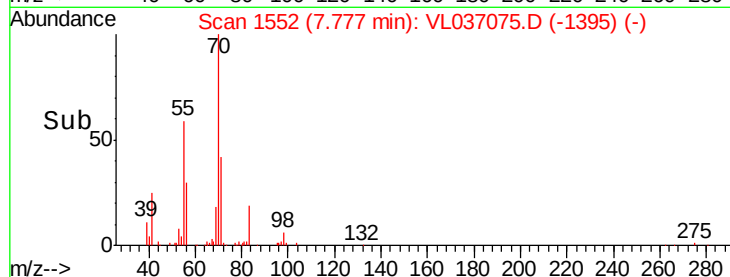
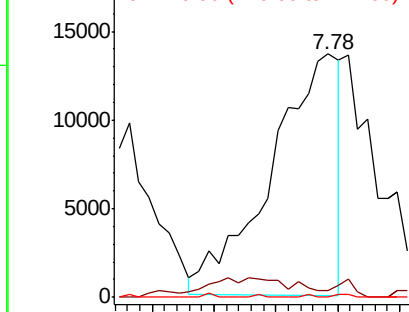
83 100

85 0.4 51.7 77.5#

127 0.0 6.9 10.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#44

2,2,4-Trimethylpentane

Concen: 0.069 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

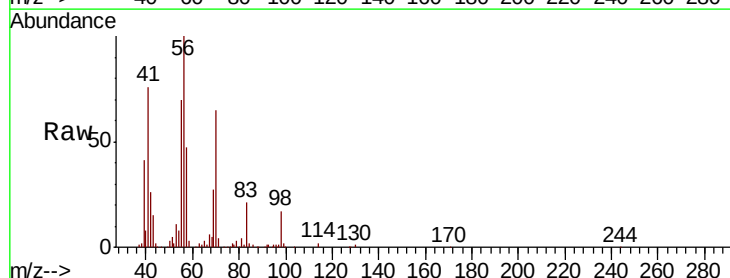
Tgt Ion: 57 Resp: 48099

Ion Ratio Lower Upper

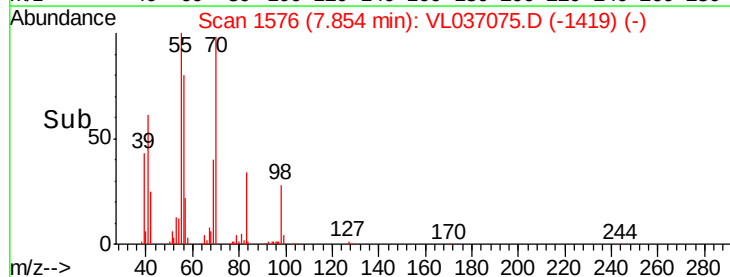
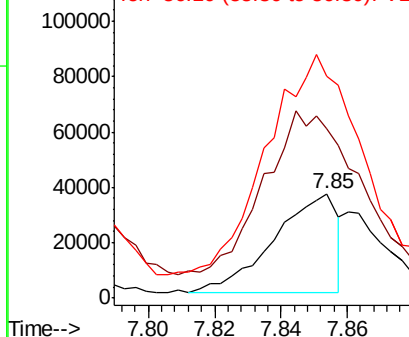
57 100

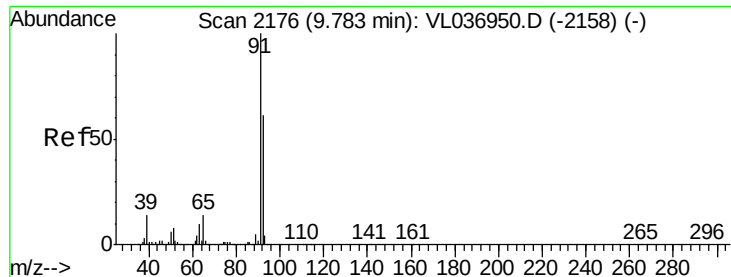
41 317.3 27.0 40.4#

56 424.7 25.4 38.2#



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





#53

Toluene

Concen: 1.797 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

Instrument :

MSVOA_L

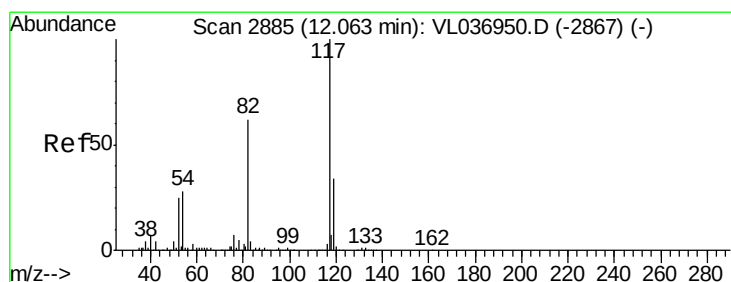
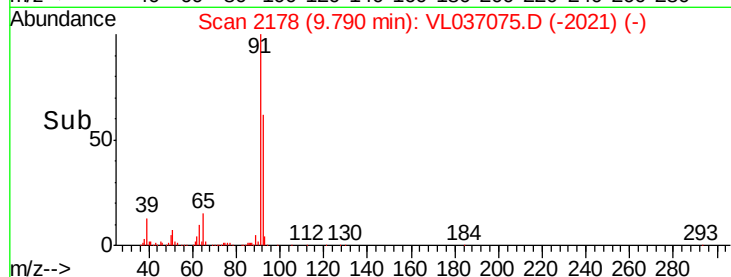
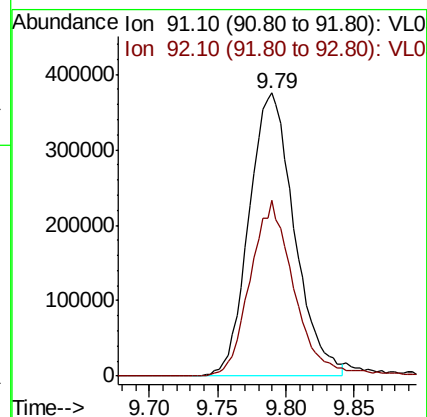
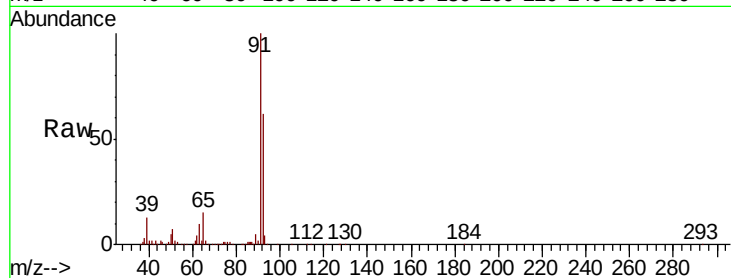
ClientSampleId :

Tot Ion: 91 Resp: 866977

Ion Ratio Lower Upper

91 100

92 61.3 49.5 74.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

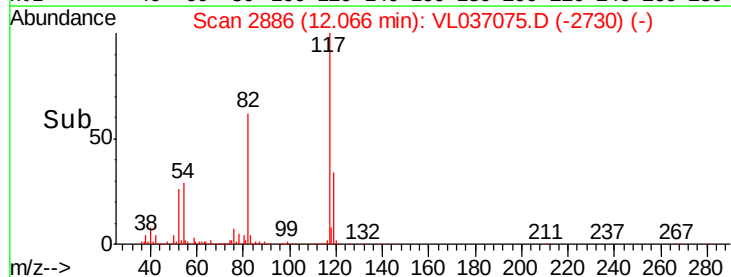
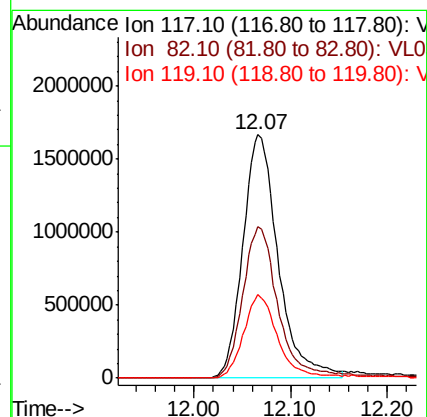
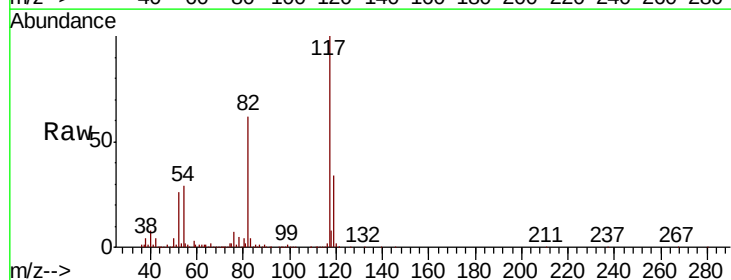
Tgt Ion: 117 Resp: 4238794

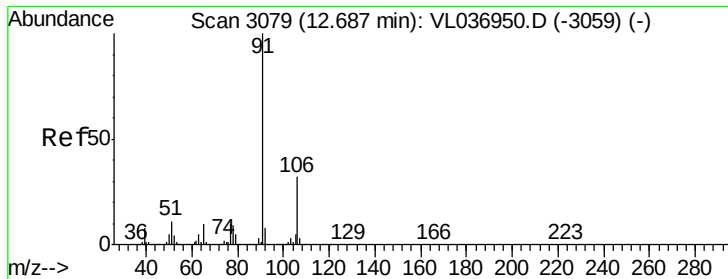
Ion Ratio Lower Upper

117 100

82 64.3 52.6 79.0

119 34.9 46.6 70.0#





#58

Ethyl Benzene

Concen: 0.158 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. 0.00 min

Lab File: VL037075.D

Acq: 1 Jun 2021 18:18

Instrument :

MSVOA_L

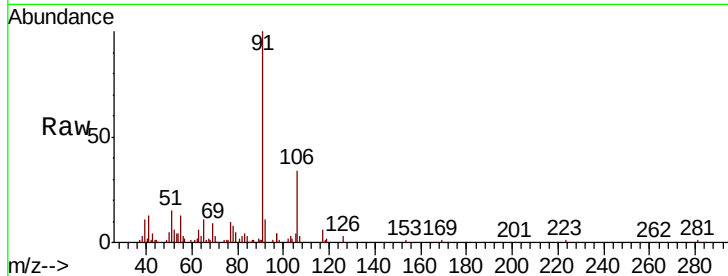
ClientSampleId :

Tot Ion: 91 Resp: 94495

Ion Ratio Lower Upper

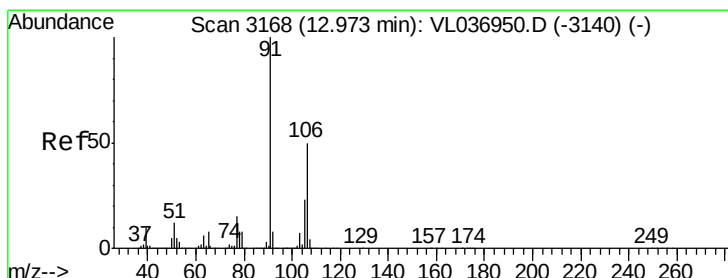
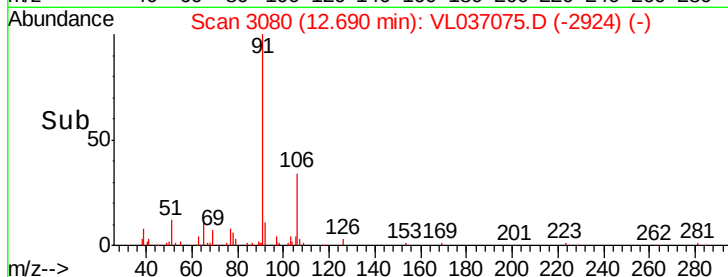
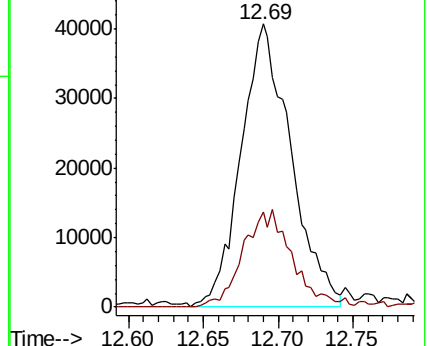
91 100

106 33.8 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.126 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. 0.01 min

Lab File: VL037075.D

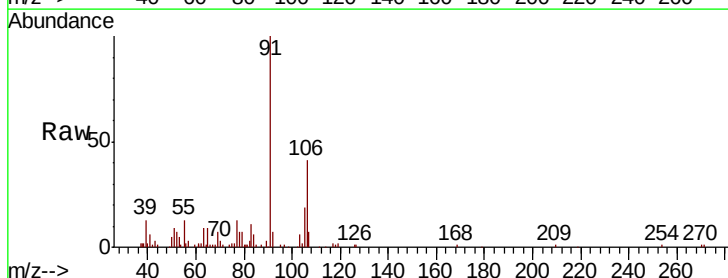
Acq: 1 Jun 2021 18:18

Tgt Ion: 91 Resp: 62070

Ion Ratio Lower Upper

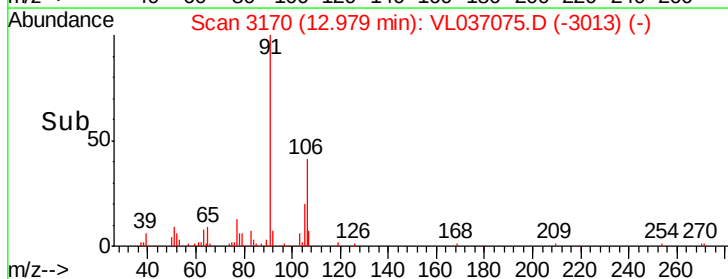
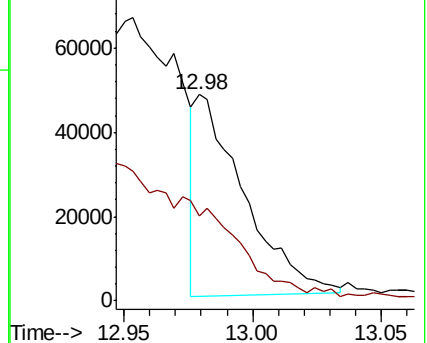
91 100

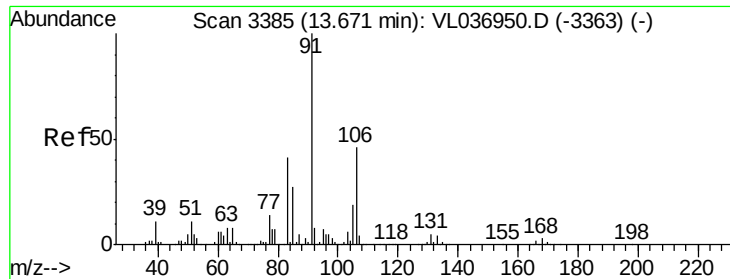
106 0.0 37.4 56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

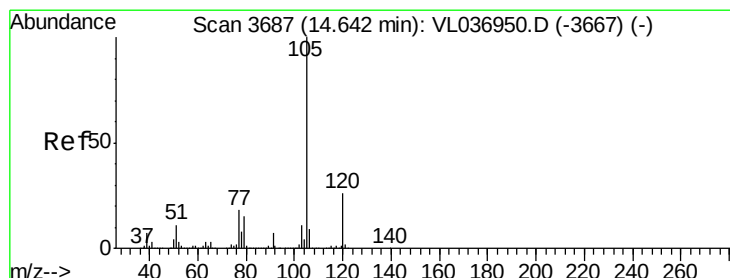
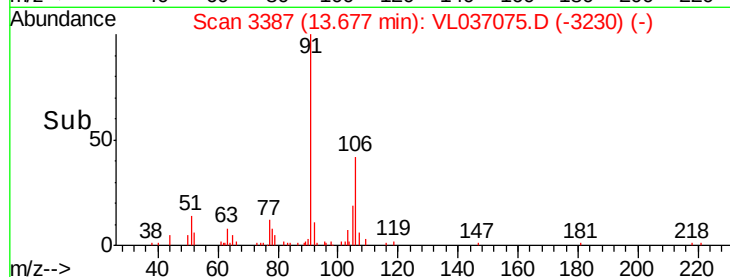
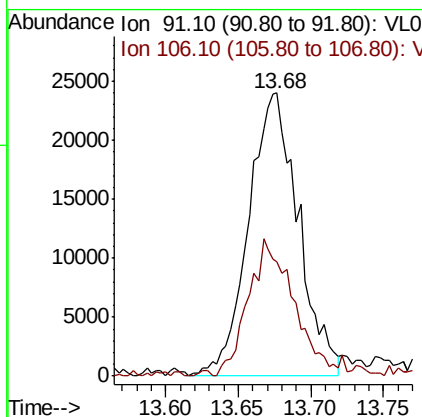
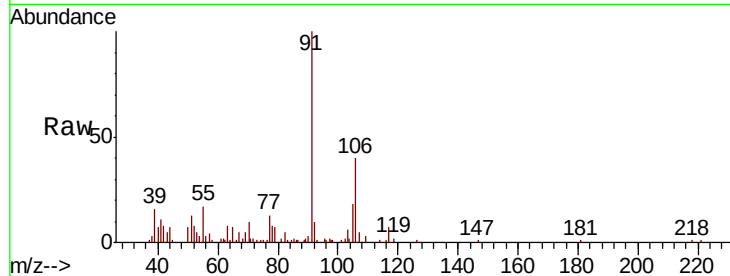




#60
o-Xylene
Concen: 0.122 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. 0.01 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

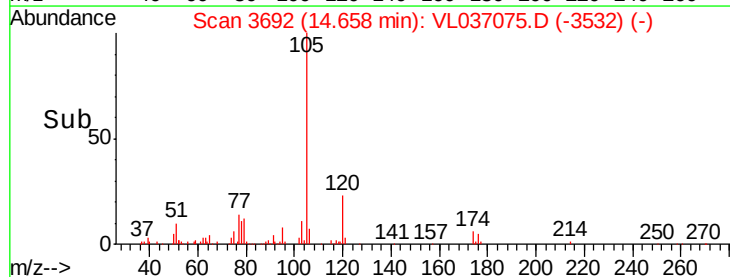
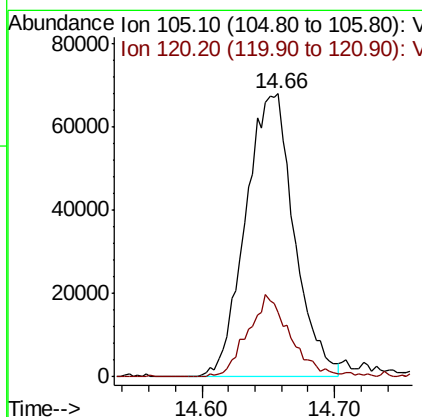
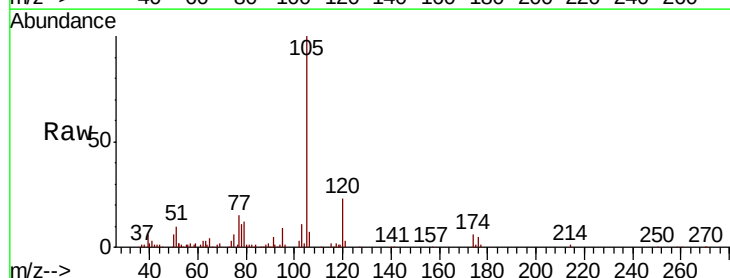
Instrument :
MSVOA_L
ClientSampleId :

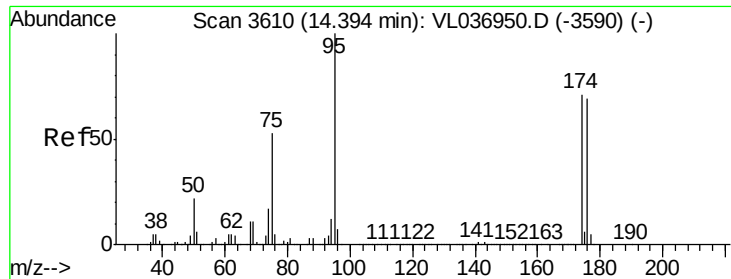
Tot Ion: 91 Resp: 57479
Ion Ratio Lower Upper
91 100
106 47.5 23.4 70.3



#62
Isopropylbenzene
Concen: 0.255 ppbv
RT: 14.66 min Scan# 3692
Delta R.T. 0.02 min
Lab File: VL037075.D
Acq: 1 Jun 2021 18:18

Tgt Ion: 105 Resp: 173112
Ion Ratio Lower Upper
105 100
120 25.4 21.7 32.5

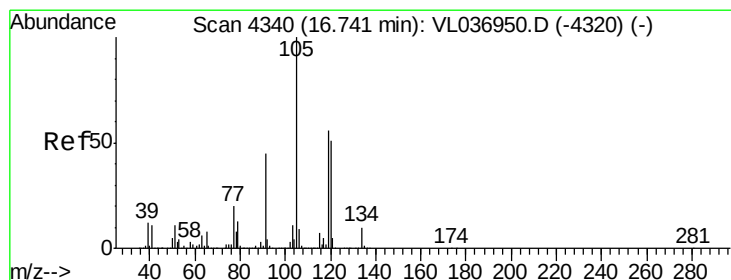
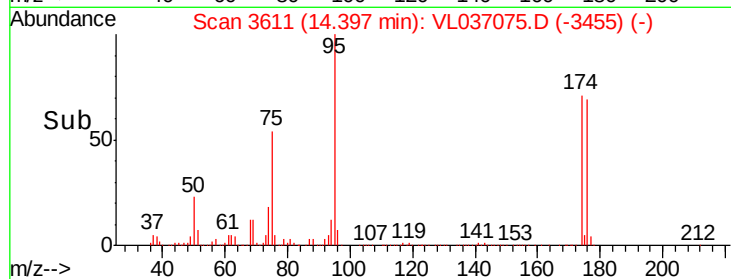
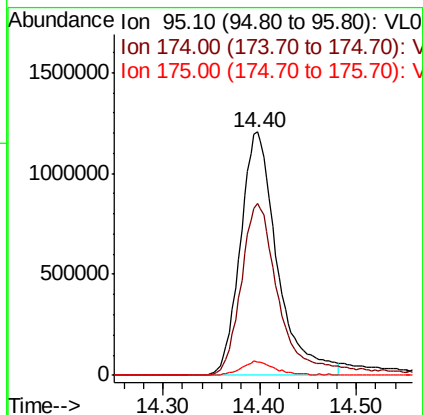
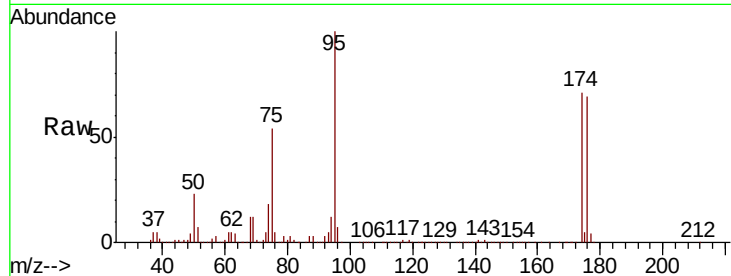




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.053 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037075.D
 Acq: 1 Jun 2021 18:18

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3201249
 Ion Ratio Lower Upper
 95 100
 174 75.8 58.4 87.6
 175 5.6 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.078 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. 0.01 min
 Lab File: VL037075.D
 Acq: 1 Jun 2021 18:18

Tgt Ion: 105 Resp: 42295
 Ion Ratio Lower Upper
 105 100
 120 37.7 40.6 61.0#
 91 9.5 37.4 56.0#
 77 17.8 16.2 24.4

