

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037084.D
 Acq On : 2 Jun 2021 00:16
 Operator : SY/AP
 Sample : M2548-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:04:10 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	1306654	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3925364	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3493000	10.00	ppbv	0.00

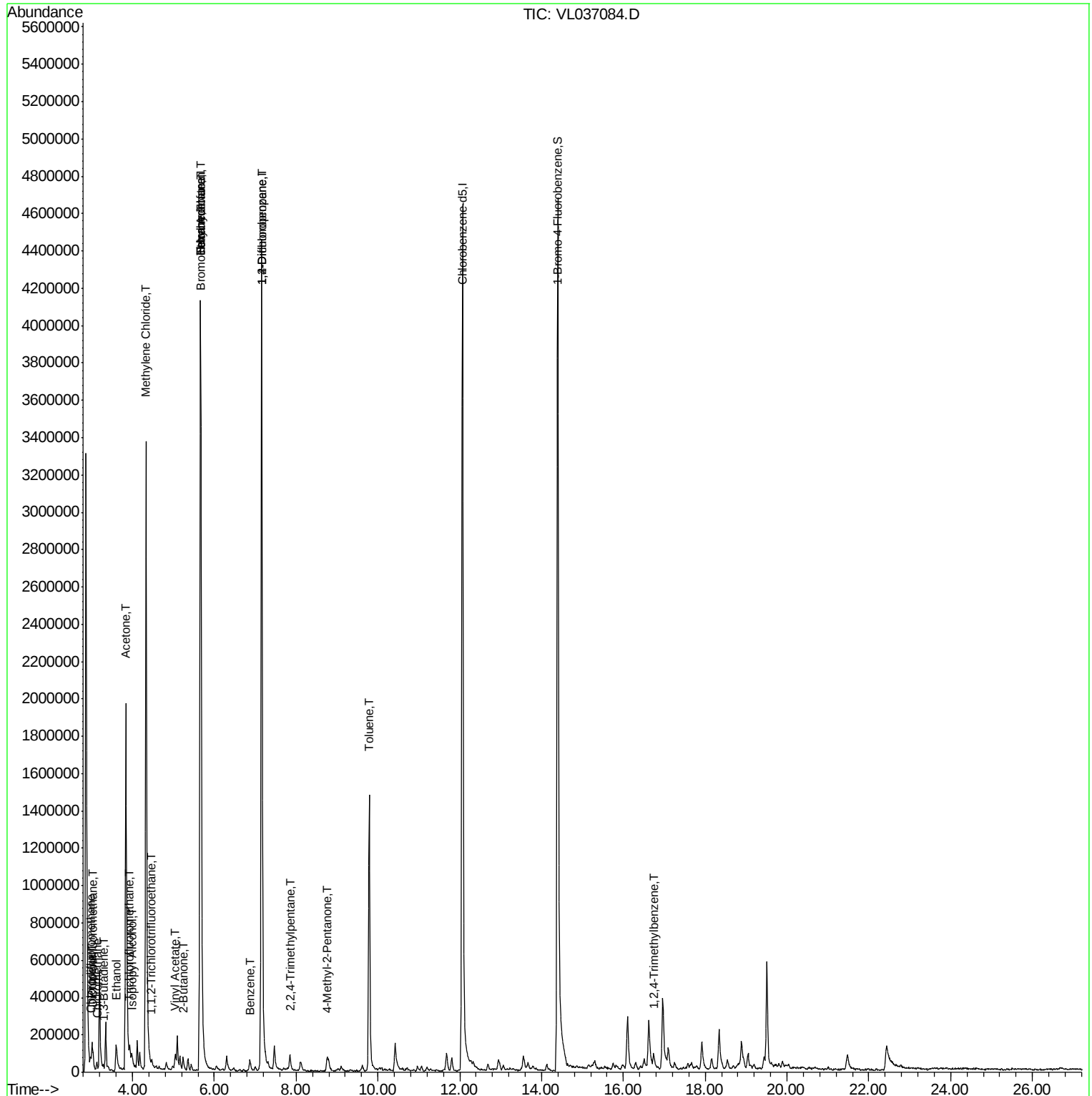
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2637773	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

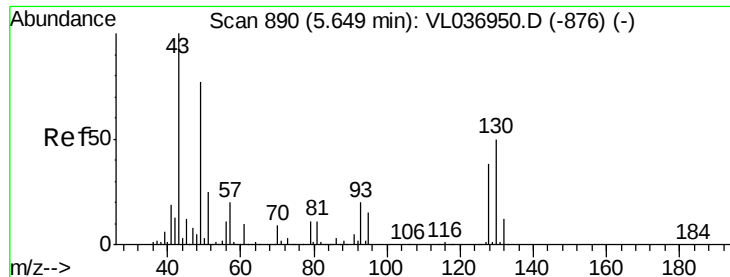
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	57751	0.261	ppbv	94
3) Chlorodifluoromethane	2.98	51	87190	0.364	ppbv	95
4) Chloromethane	3.13	50	43509	0.534	ppbv	93
9) Propene	3.01	41	32129	0.375	ppbv	85
11) Trichlorofluoromethane	3.93	101	49630	0.242	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5633	0.039	ppbv #	14
13) Ethanol	3.60	45	238727	20.873	ppbv	91
15) Acetone	3.83	43	2677349	20.005	ppbv	97
16) 1,3-Butadiene	3.30	39	3048	0.037	ppbv #	50
19) Isopropyl Alcohol	3.97	45	21676	0.301	ppbv #	30
20) Methylene Chloride	4.33	84	1496069	20.854	ppbv	98
23) Vinyl Acetate	5.06	43	11571	0.054	ppbv #	70
25) Ethyl Acetate	5.67	43	969366	3.014	ppbv #	77
26) Hexane	5.67	57	1390515	8.464	ppbv #	47
34) 2-Butanone	5.23	43	80979	0.567	ppbv #	85
36) Benzene	6.87	78	20633	0.061	ppbv #	91
39) 1,2-Dichloropropane	7.15	63	920995	7.071	ppbv #	26
41) Tetrahydrofuran	5.67	42	500849	6.153	ppbv #	51
44) 2,2,4-Trimethylpentane	7.85	57	69727	0.120	ppbv #	78
50) 4-Methyl-2-Pentanone	8.75	43	41632	0.177	ppbv #	56
53) Toluene	9.79	91	1279850	3.181	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	53365	0.119	ppbv #	76

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\  
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Operator  : SY/AP  
Sample    : M2548-03  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
```

Quant Time: Jun 02 03:04:10 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :

MSVOA_L

ClientSampleId :

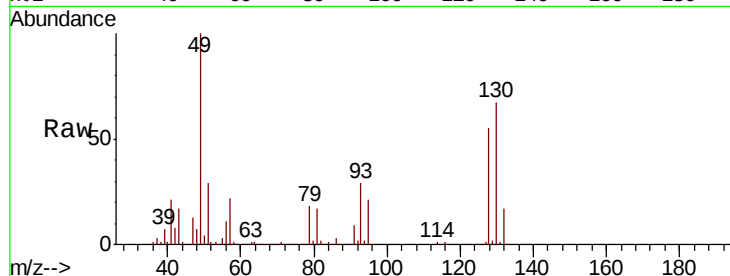
Tot Ion: 49 Resp: 1306654

Ion Ratio Lower Upper

49 100

128 57.6 26.9 80.7

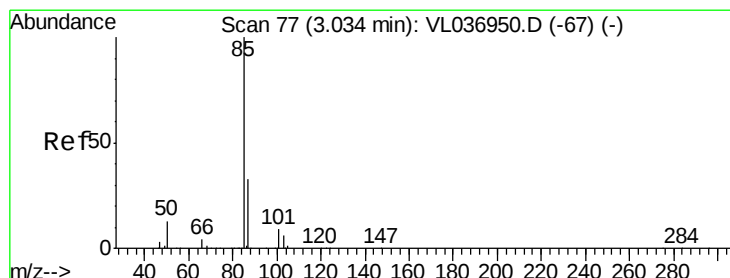
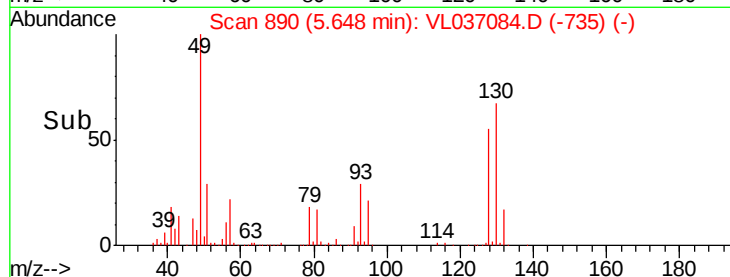
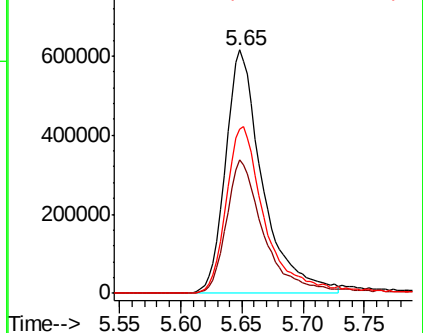
130 73.7 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 0.261 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL037084.D

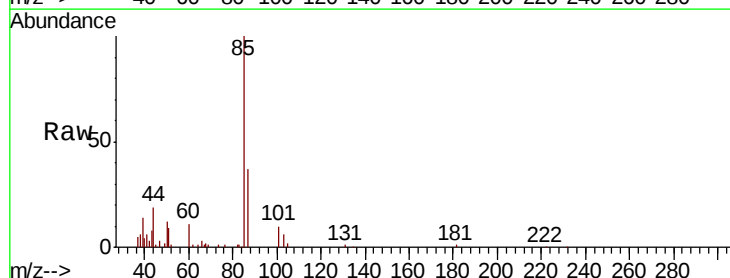
Acq: 2 Jun 2021 00:16

Tgt Ion: 85 Resp: 57751

Ion Ratio Lower Upper

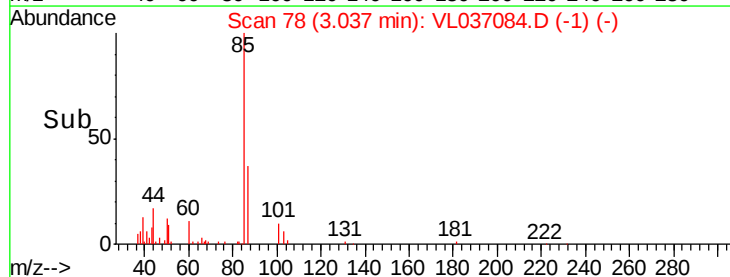
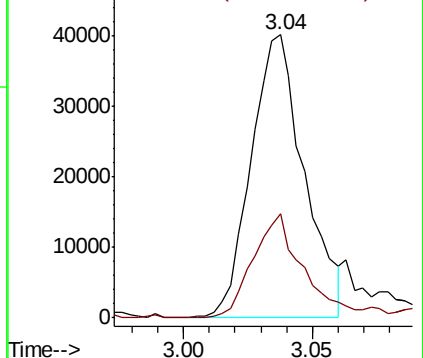
85 100

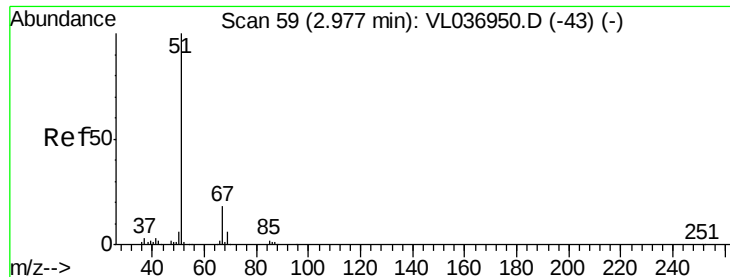
87 36.7 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

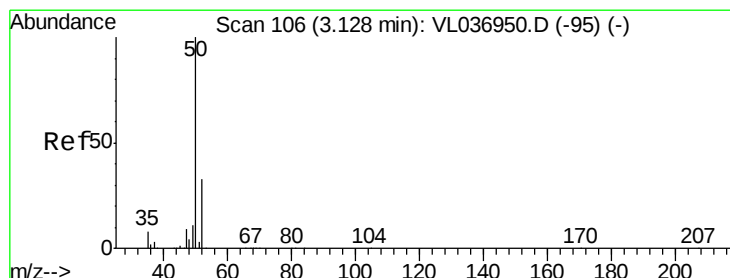
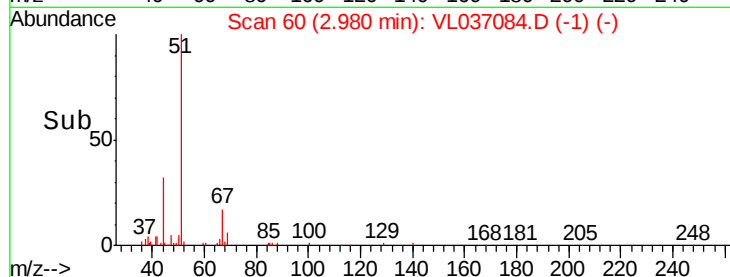
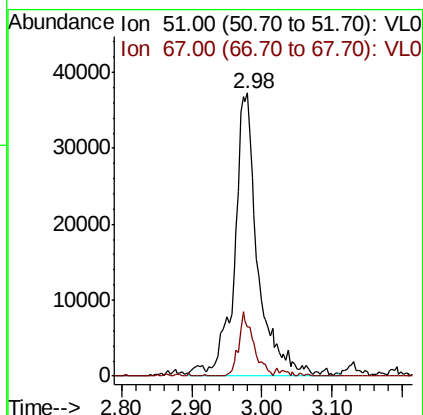
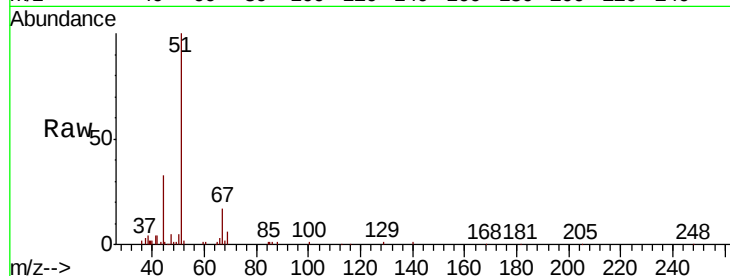




#3
 Chlorodifluoromethane
 Concen: 0.364 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

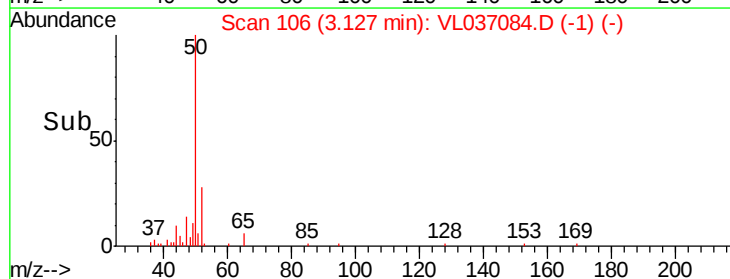
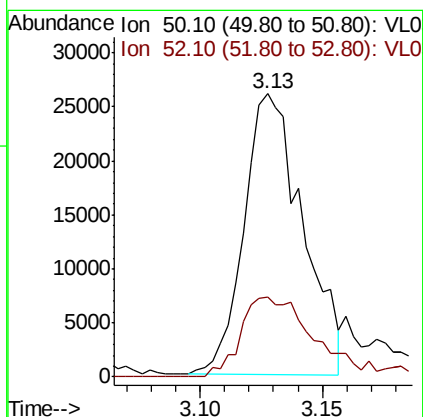
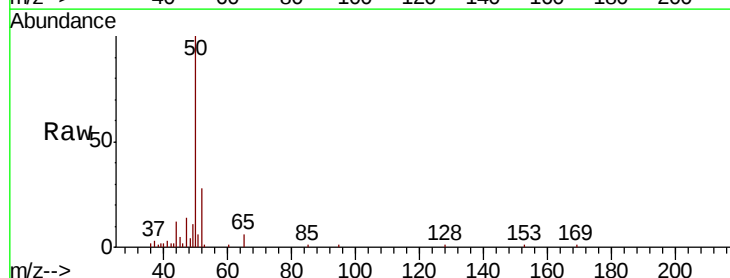
Instrument :
 MSVOA_L
 ClientSampleId :

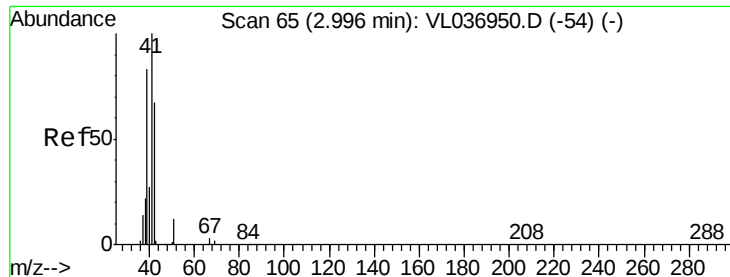
Tot Ion: 51 Resp: 87190
 Ion Ratio Lower Upper
 51 100
 67 15.8 14.6 21.8



#4
 Chloromethane
 Concen: 0.534 ppbv
 RT: 3.13 min Scan# 106
 Delta R.T. -0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Tgt Ion: 50 Resp: 43509
 Ion Ratio Lower Upper
 50 100
 52 28.5 26.1 39.1





#9

Propene

Concen: 0.375 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :

MSVOA_L

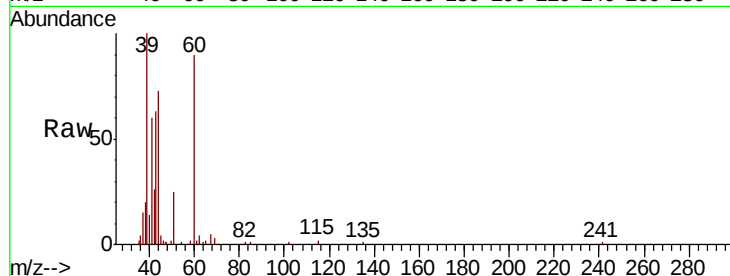
ClientSampleId :

Tot Ion: 41 Resp: 32129

Ion Ratio Lower Upper

41 100

42 55.5 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

20000

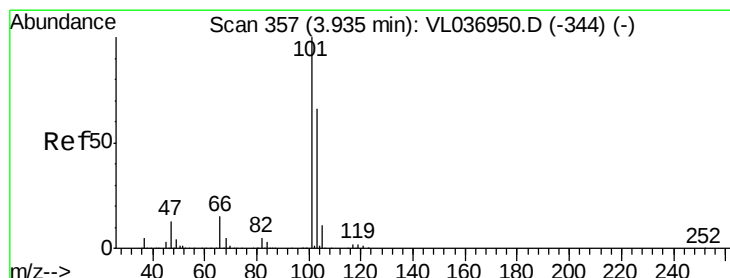
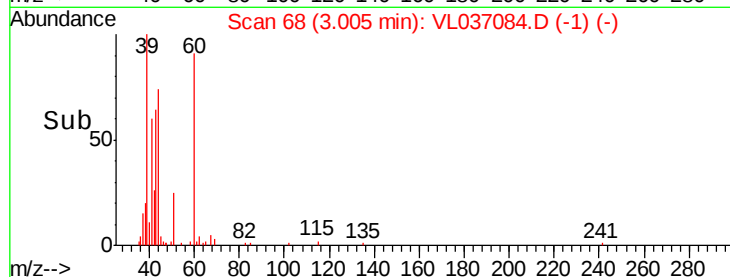
15000

10000

5000

0

Time--> 2.95 3.00 3.05



#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037084.D

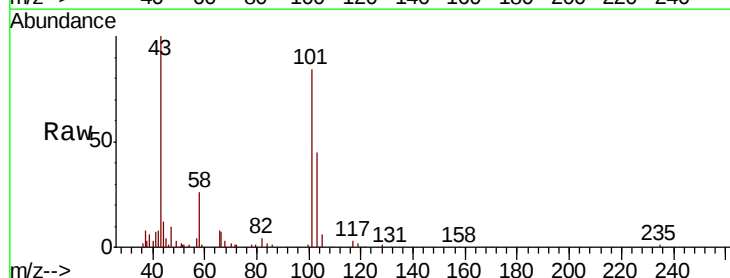
Acq: 2 Jun 2021 00:16

Tgt Ion: 101 Resp: 49630

Ion Ratio Lower Upper

101 100

103 53.1 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

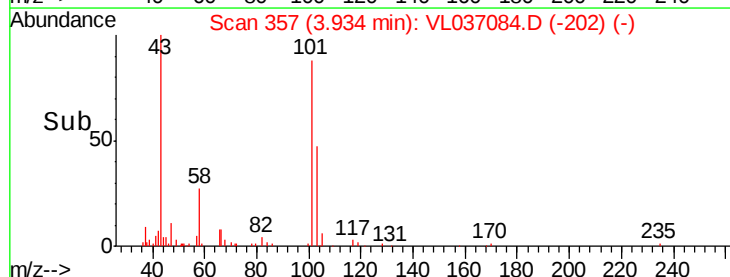
30000

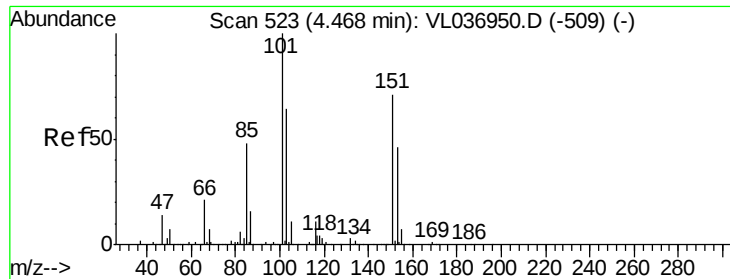
20000

10000

0

Time--> 3.90 3.95

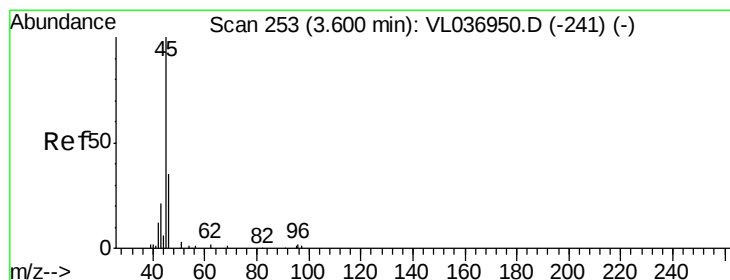
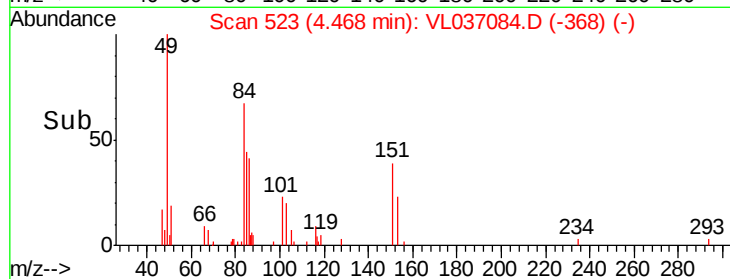
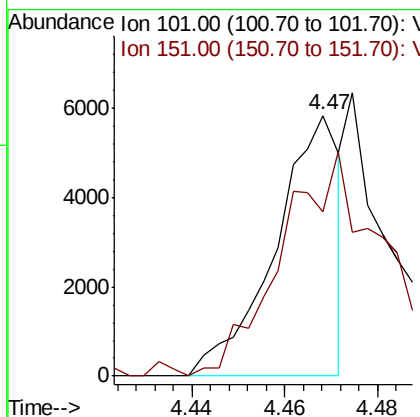
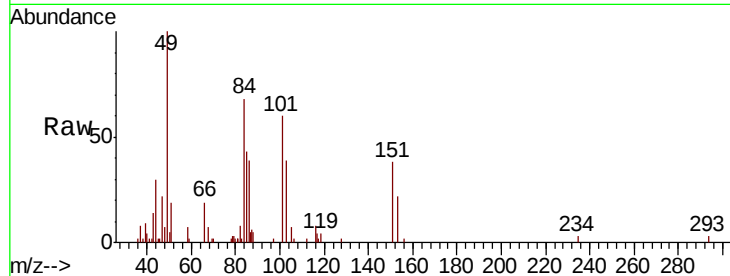




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

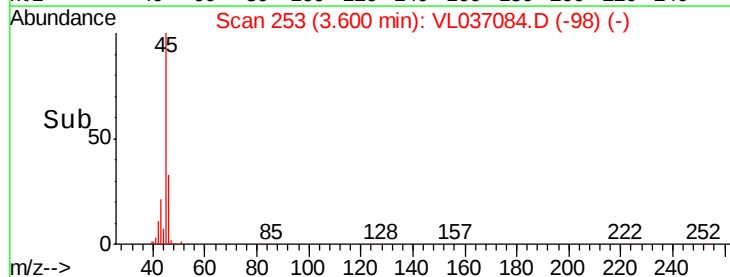
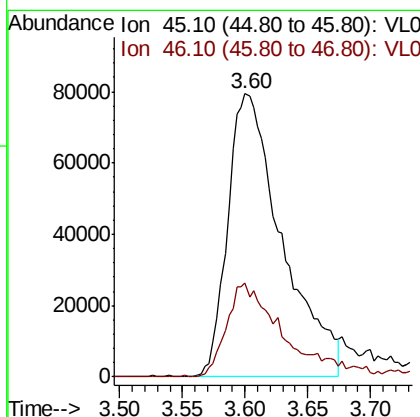
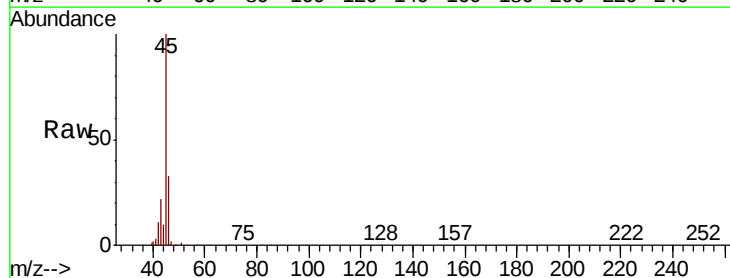
Instrument :
 MSVOA_L
 ClientSampleId :

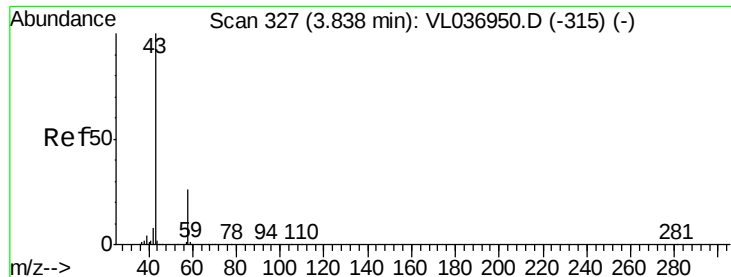
Tot Ion:101 Resp: 5633
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.7 86.5#



#13
 Ethanol
 Concen: 20.873 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Tgt Ion: 45 Resp: 238727
 Ion Ratio Lower Upper
 45 100
 46 35.0 16.3 65.3





#15

Acetone

Concen: 20.005 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :

MSVOA_L

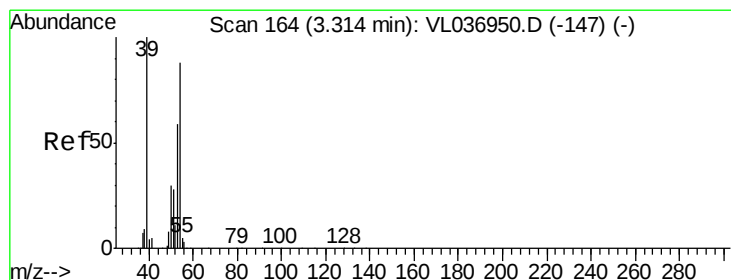
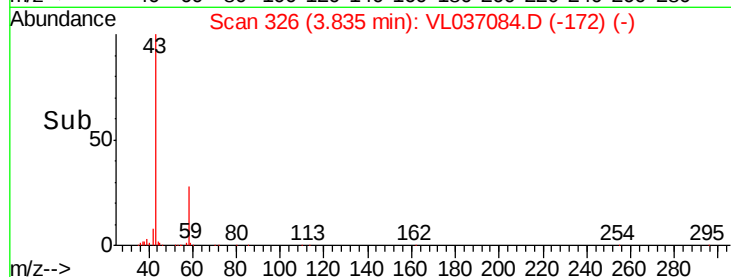
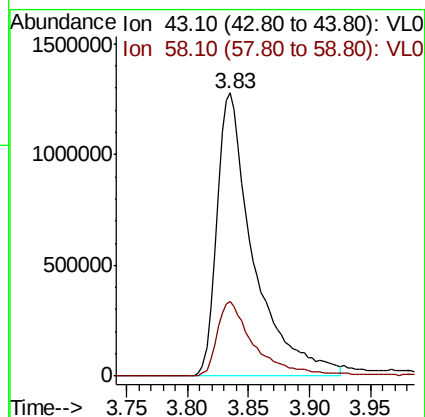
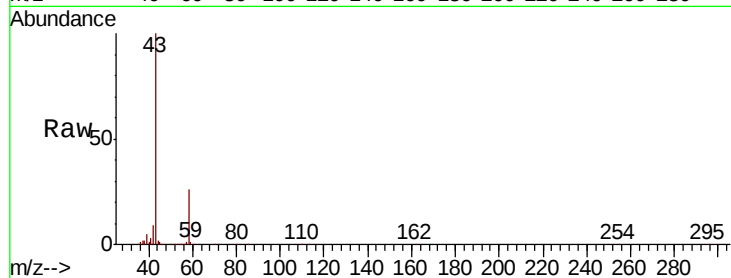
ClientSampleId :

Tot Ion: 43 Resp: 2677349

Ion Ratio Lower Upper

43 100

58 28.6 24.0 36.0



#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.01 min

Lab File: VL037084.D

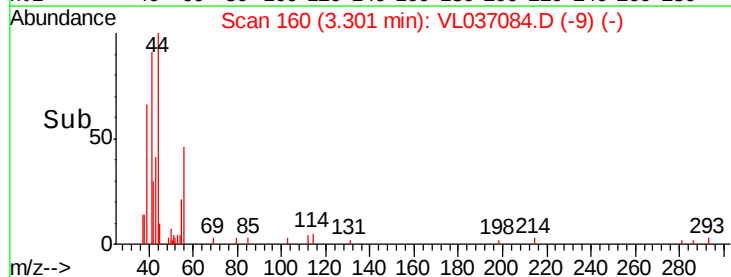
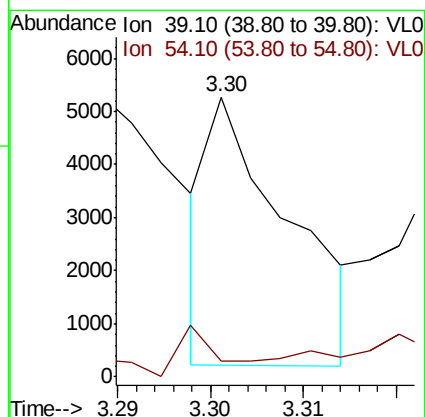
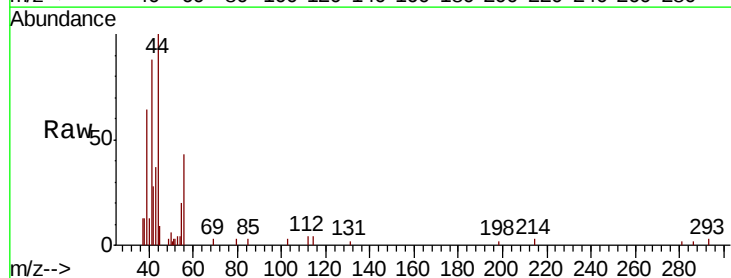
Acq: 2 Jun 2021 00:16

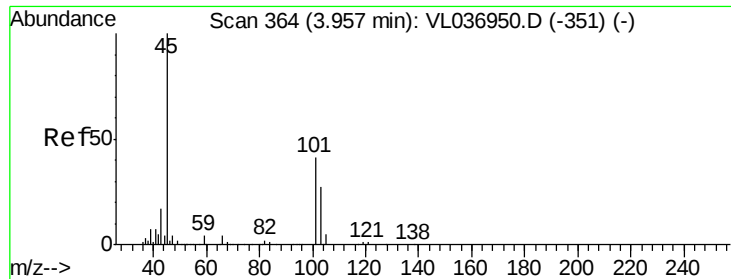
Tgt Ion: 39 Resp: 3048

Ion Ratio Lower Upper

39 100

54 35.0 63.2 94.8#





#19

Isopropyl Alcohol

Concen: 0.301 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :

MSVOA_L

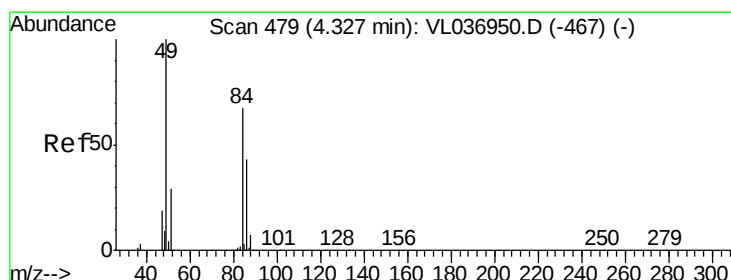
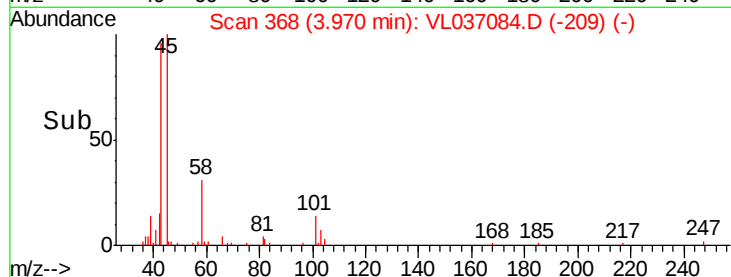
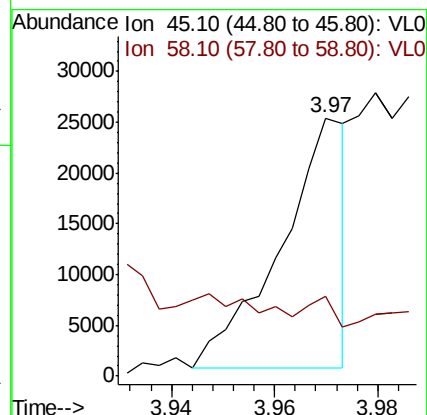
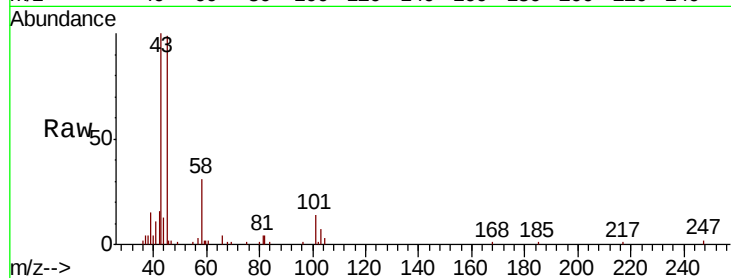
ClientSampled :

Tot Ion: 45 Resp: 21676

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 20.854 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Tgt Ion: 84 Resp: 1496069

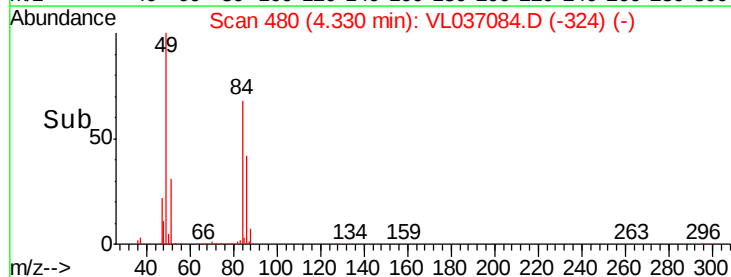
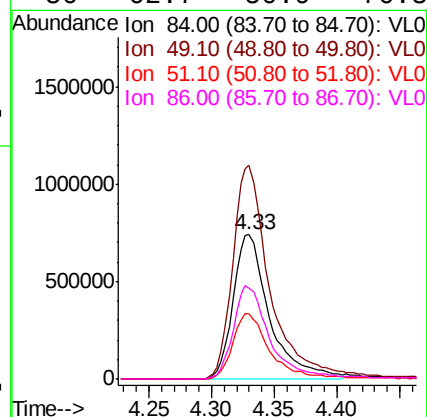
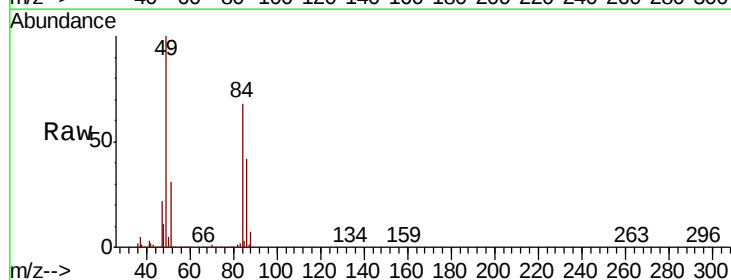
Ion Ratio Lower Upper

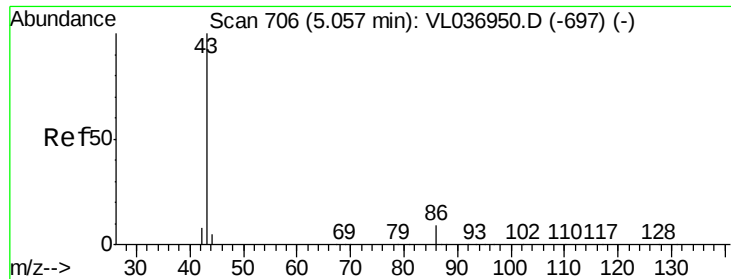
84 100

49 147.8 119.8 179.6

51 45.5 35.1 52.7

86 62.7 50.9 76.3





#23

Vinyl Acetate

Concen: 0.054 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 11571

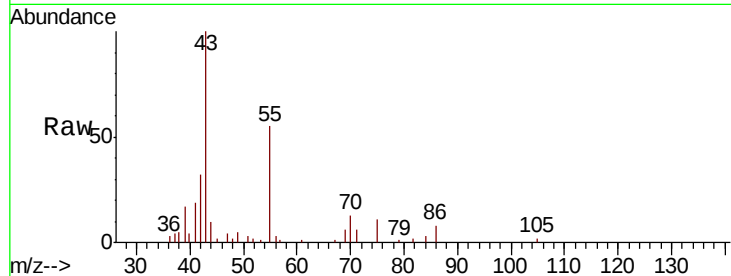
Ion Ratio Lower Upper

43 100

86 23.0 5.8 8.8#

42 0.0 7.4 11.2#

44 0.0 3.3 4.9#

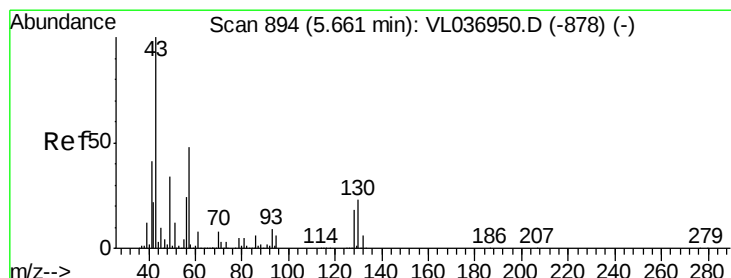
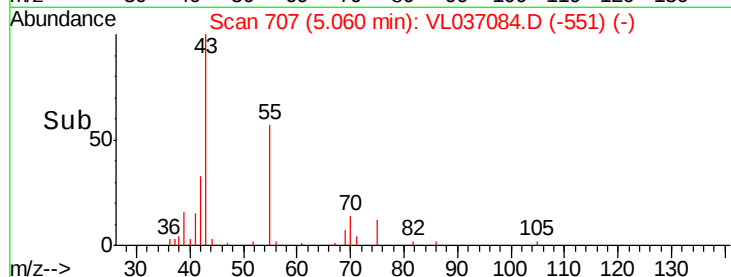
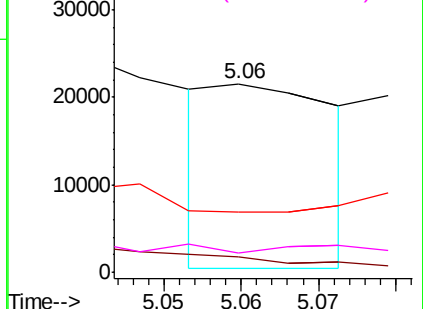


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 3.014 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Tgt Ion: 43 Resp: 969366

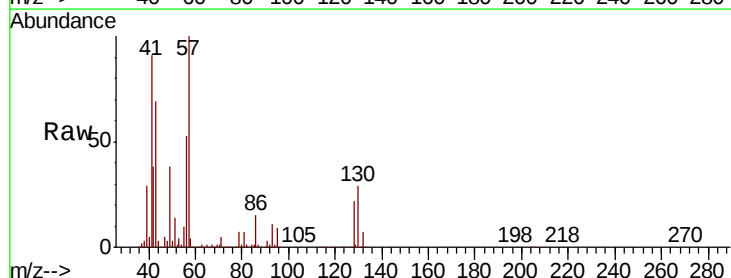
Ion Ratio Lower Upper

43 100

45 0.6 7.8 11.8#

61 0.5 7.8 11.8#

70 1.5 5.6 8.4#

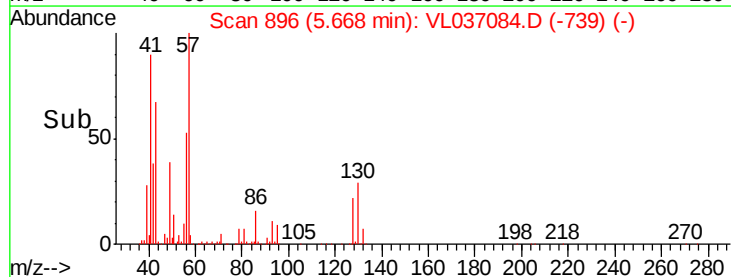
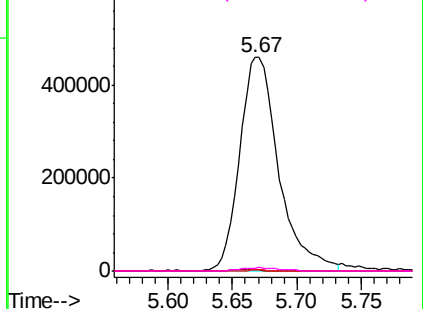


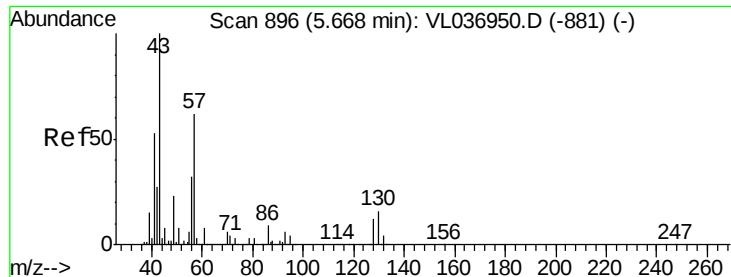
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

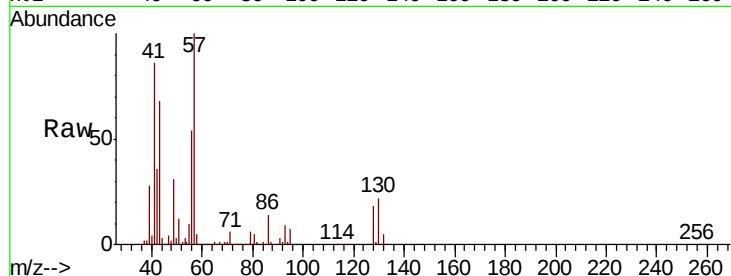




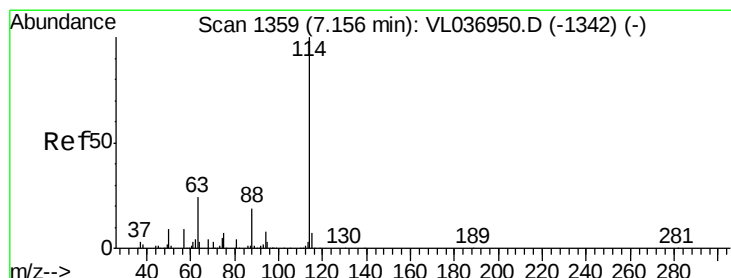
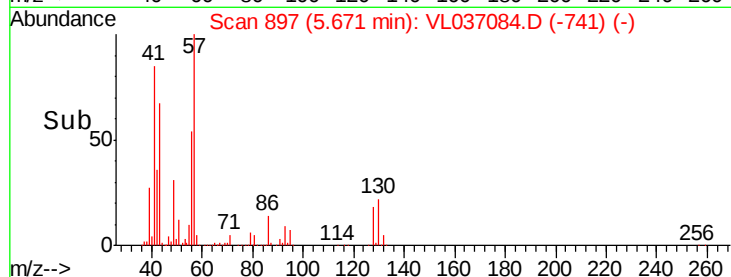
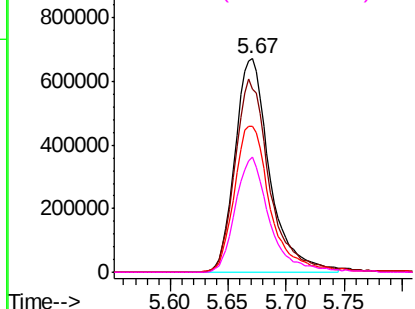
#26
Hexane
Concen: 8.464 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 1390515
Ion Ratio Lower Upper
57 100
41 91.7 70.5 105.7
43 71.6 165.8 248.8#
56 53.6 42.2 63.4

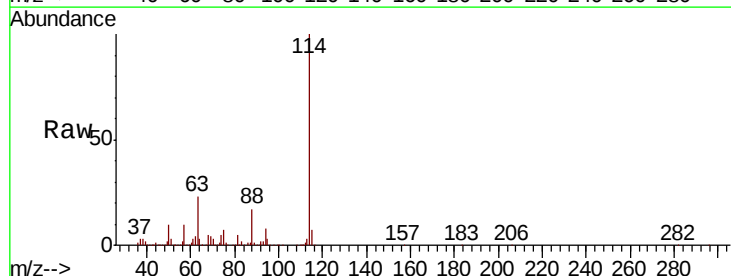


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

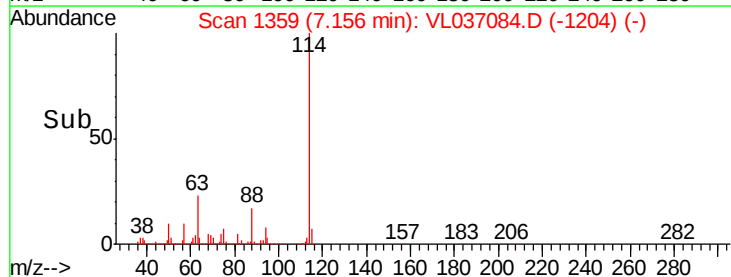
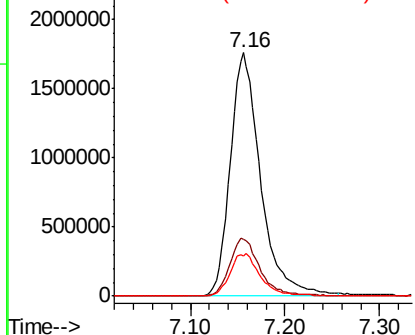


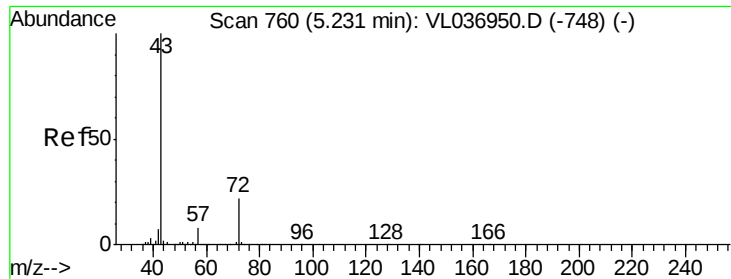
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt Ion: 114 Resp: 3925364
Ion Ratio Lower Upper
114 100
63 23.7 19.6 29.4
88 17.6 14.6 21.8



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

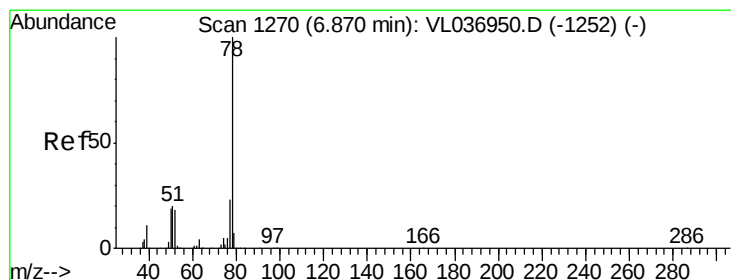
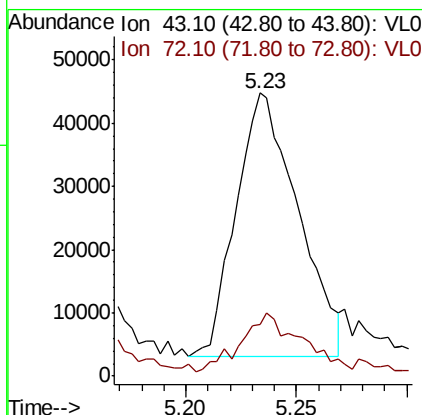
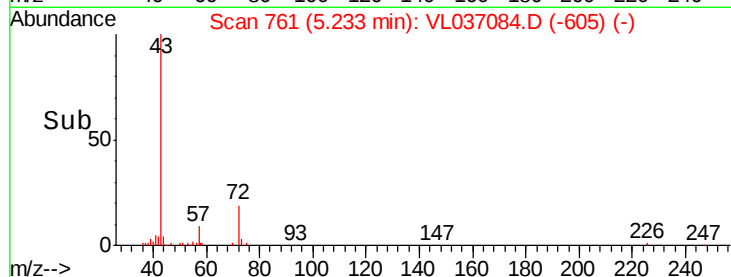
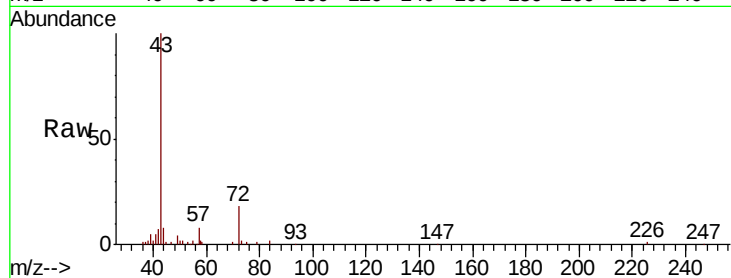




#34
2-Butanone
Concen: 0.567 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

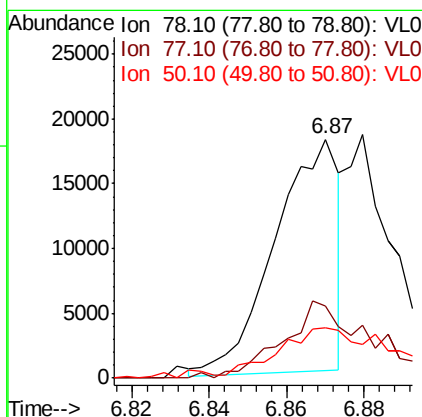
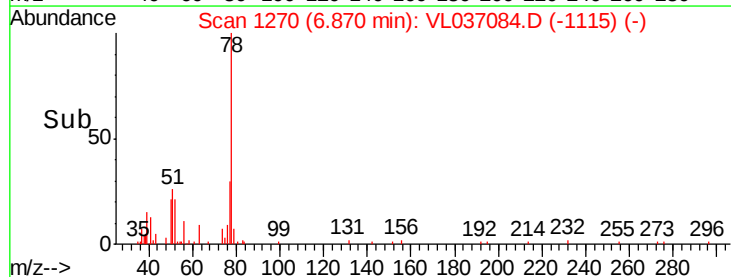
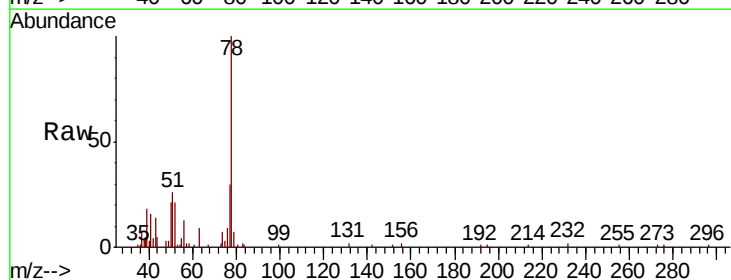
Instrument :
MSVOA_L
ClientSampled :

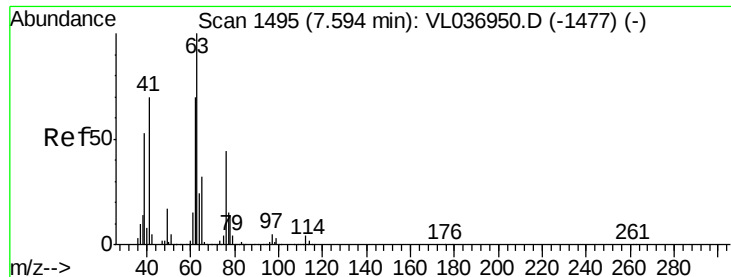
Tot Ion: 43 Resp: 80979
Ion Ratio Lower Upper
43 100
72 31.0 19.0 28.4#



#36
Benzene
Concen: 0.061 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt Ion: 78 Resp: 20633
Ion Ratio Lower Upper
78 100
77 31.2 18.6 28.0#
50 18.2 15.0 22.4

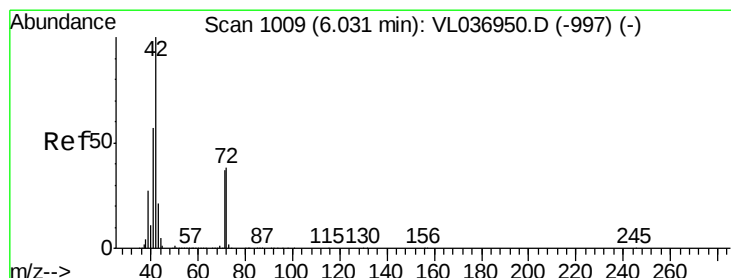
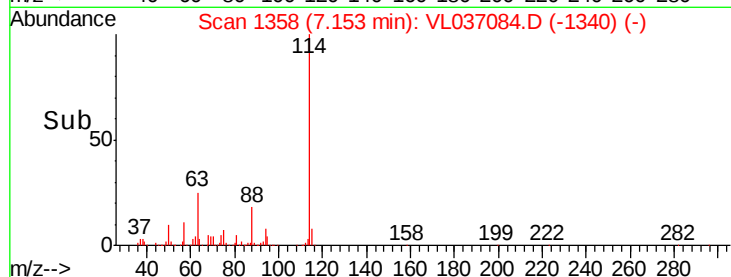
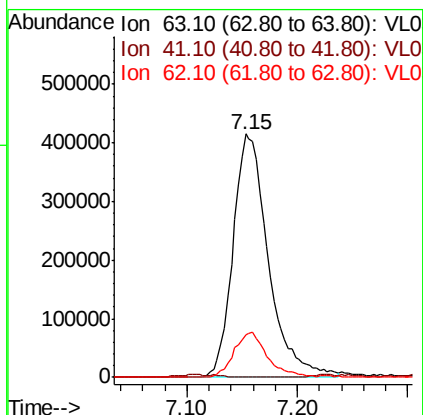
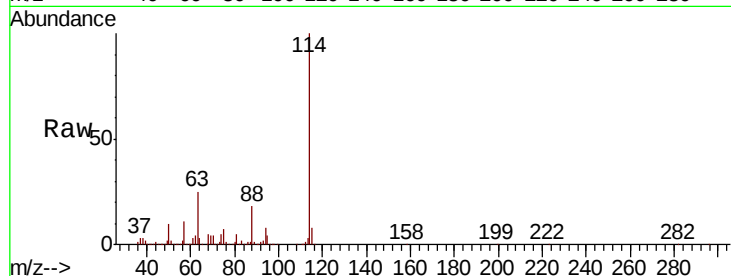




#39
 1,2-Dichloropropane
 Concen: 7.071 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.44 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

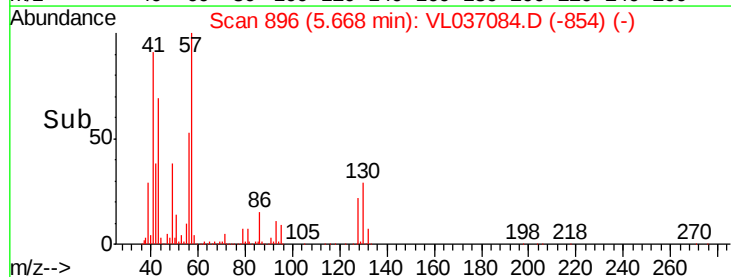
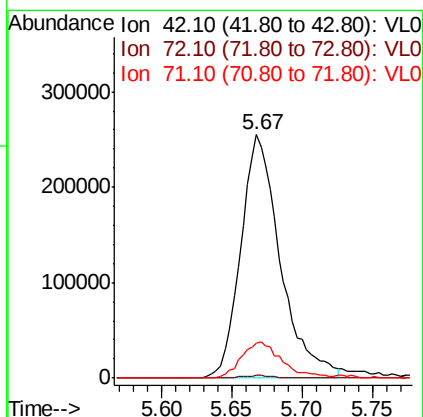
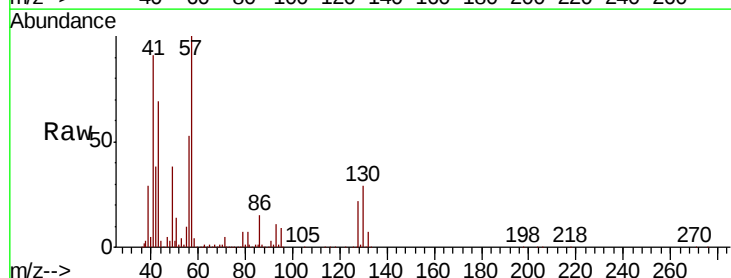
Instrument :
 MSVOA_L
 ClientSampleId :

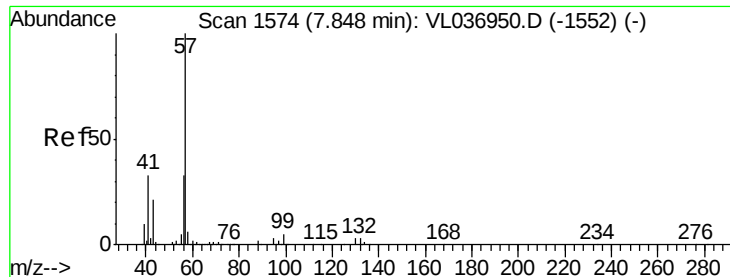
Tot Ion: 63 Resp: 920995
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 17.7 56.2 84.4#



#41
 Tetrahydrofuran
 Concen: 6.153 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.36 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Tgt Ion: 42 Resp: 500849
 Ion Ratio Lower Upper
 42 100
 72 1.1 31.4 47.2#
 71 16.2 30.4 45.6#

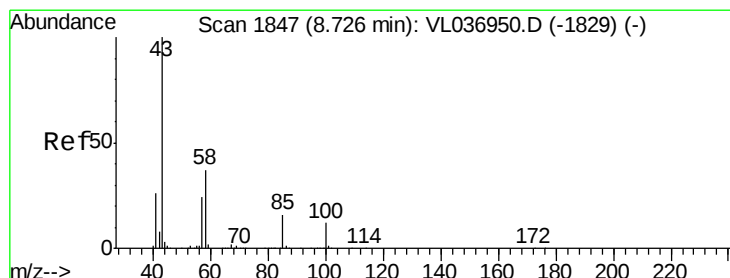
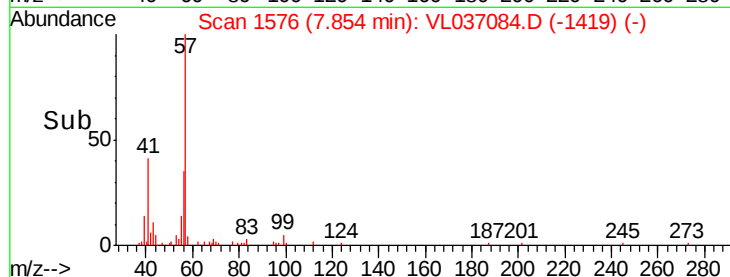
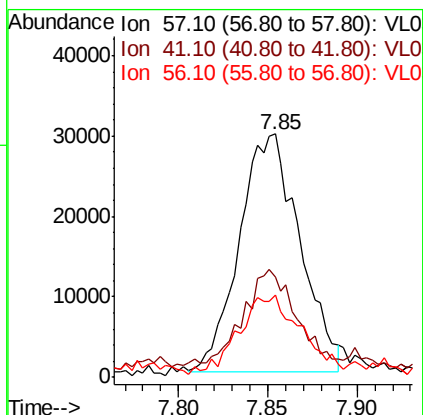
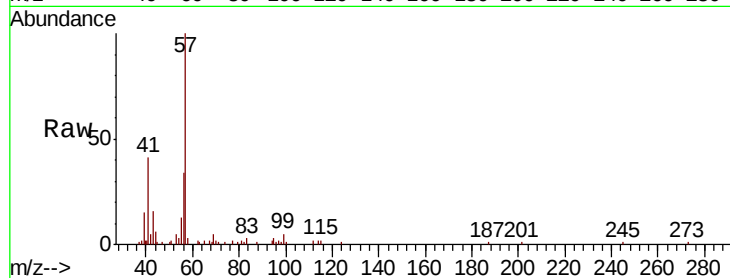




#44
 2,2,4-Trimethylpentane
 Concen: 0.120 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

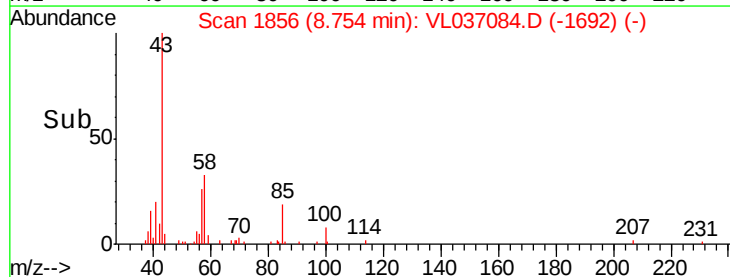
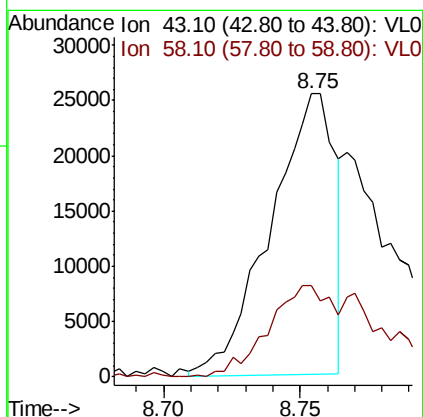
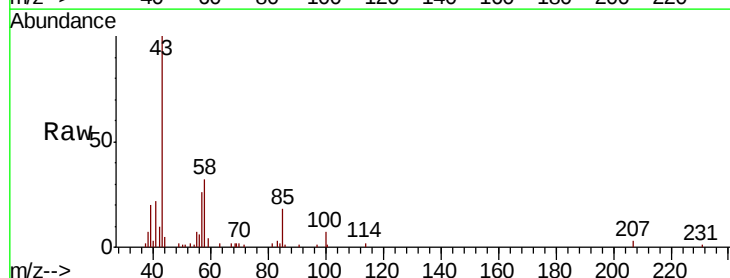
Instrument :
 MSVOA_L
 ClientSampleId :

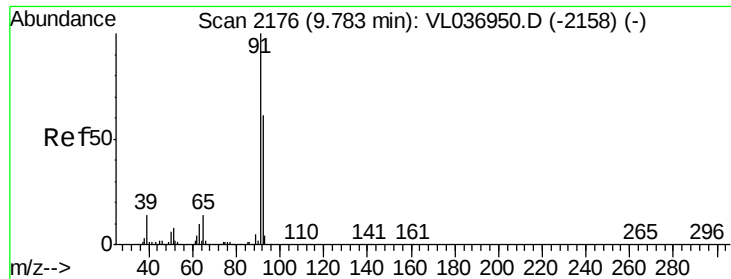
Tot Ion	57	Resp	69727
Ion	Ratio	Lower	Upper
57	100		
41	49.5	27.0	40.4#
56	40.4	25.4	38.2#



#50
 4-Methyl-2-Pentanone
 Concen: 0.177 ppbv
 RT: 8.75 min Scan# 1856
 Delta R.T. 0.03 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Tgt Ion	43	Resp	41632
Ion	Ratio	Lower	Upper
43	100		
58	63.0	29.4	44.2#





#53

Toluene

Concen: 3.181 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :

MSVOA_L

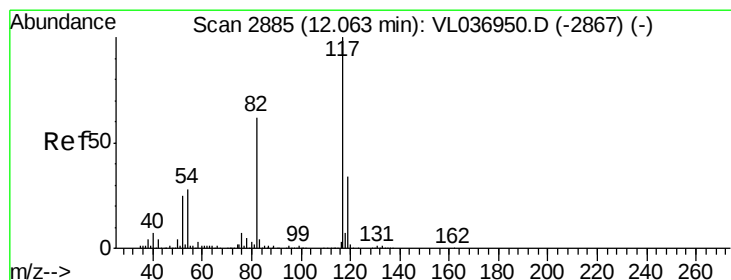
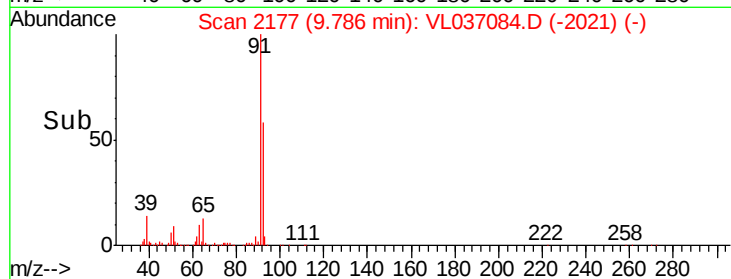
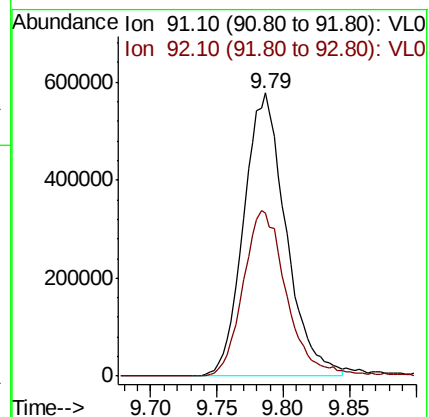
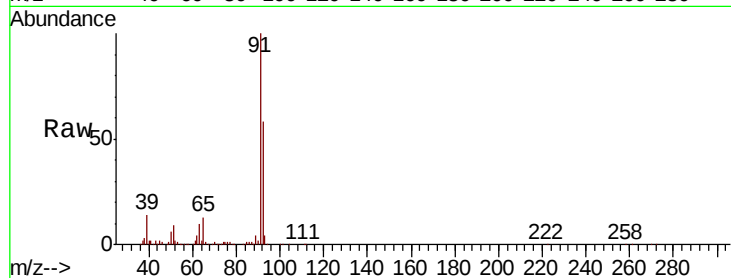
ClientSampleId :

Tot Ion: 91 Resp: 1279850

Ion Ratio Lower Upper

91 100

92 60.7 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: VL037084.D

Acq: 2 Jun 2021 00:16

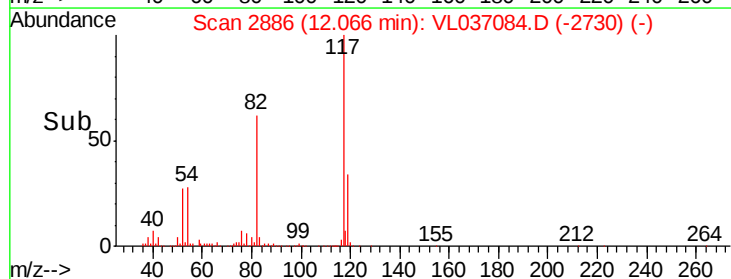
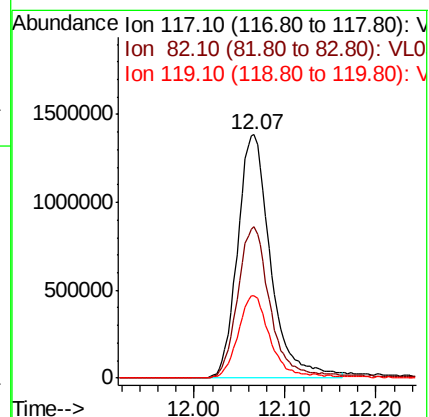
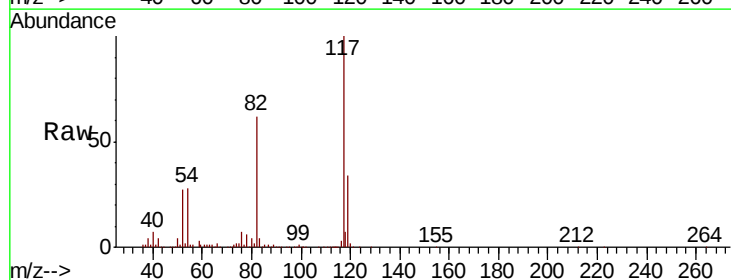
Tgt Ion: 117 Resp: 3493000

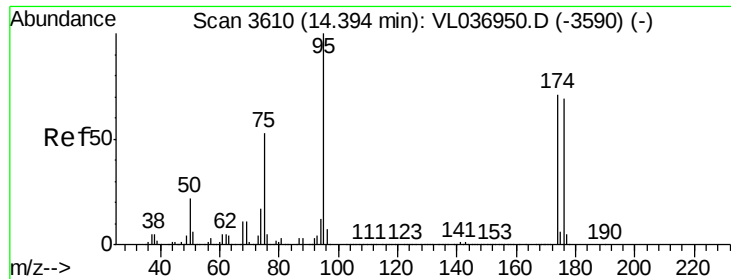
Ion Ratio Lower Upper

117 100

82 64.7 52.6 79.0

119 34.7 46.6 70.0#

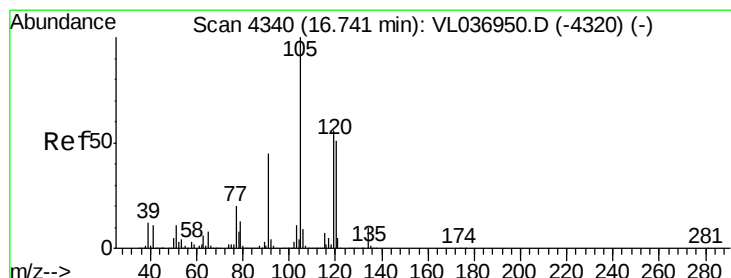
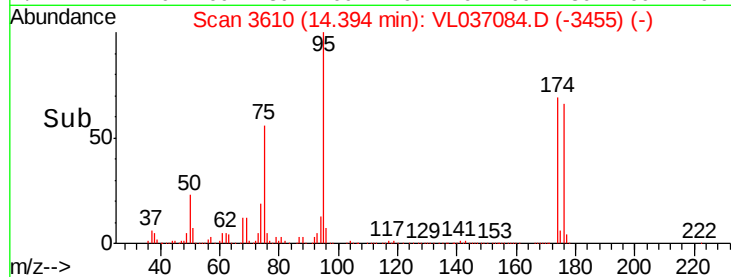
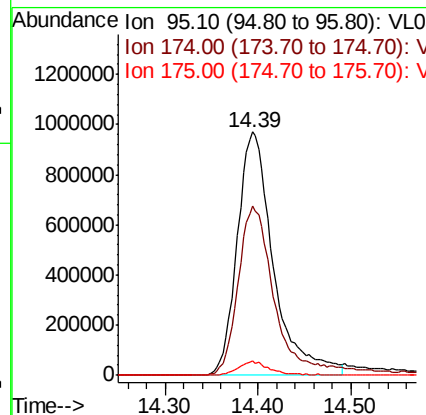
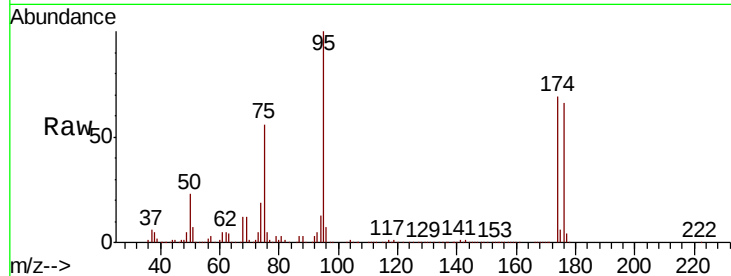




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.052 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2637773
 Ion Ratio Lower Upper
 95 100
 174 73.3 58.4 87.6
 175 5.4 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.119 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Tgt Ion: 105 Resp: 53365
 Ion Ratio Lower Upper
 105 100
 120 47.0 40.6 61.0
 91 16.2 37.4 56.0#
 77 10.7 16.2 24.4#

