

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037082.D
 Acq On : 1 Jun 2021 22:56
 Operator : SY/AP
 Sample : M2548-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Manual Integrations
 APPROVED

MMDadoda
 6/7/2021 2:59:16 PM

Quant Time: Jun 02 04:18:00 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 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	1339250	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3925341	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3486294	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2681036	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	59164	0.260	ppbv	98
3) Chlorodifluoromethane	2.98	51	92026	0.375	ppbv	97
4) Chloromethane	3.13	50	47195	0.565	ppbv	98
9) Propene	3.01	41	36209	0.412	ppbv	95
10) Heptane	8.11	43	20911m	0.096	ppbv	
11) Trichlorofluoromethane	3.94	101	54038	0.257	ppbv	97
13) Ethanol	3.60	45	409541	34.937	ppbv	99
15) Acetone	3.84	43	2369719	17.275	ppbv	97
17) tert-Butyl alcohol	4.29	59	27802m	0.221	ppbv	
19) Isopropyl Alcohol	3.97	45	122389m	1.660	ppbv	
20) Methylene Chloride	4.33	84	907906	12.347	ppbv	96
26) Hexane	5.67	57	910543	5.407	ppbv #	47
34) 2-Butanone	5.23	43	155077	1.085	ppbv #	87
35) Carbon Tetrachloride	7.00	117	12187	0.047	ppbv	96
36) Benzene	6.87	78	41063	0.121	ppbv #	82
44) 2,2,4-Trimethylpentane	7.84	57	70749m	0.122	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	104944m	0.445	ppbv	
53) Toluene	9.78	91	889754	2.212	ppbv	98
59) m/p-Xylene	12.95	91	80029m	0.197	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	55763	0.125	ppbv #	71

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

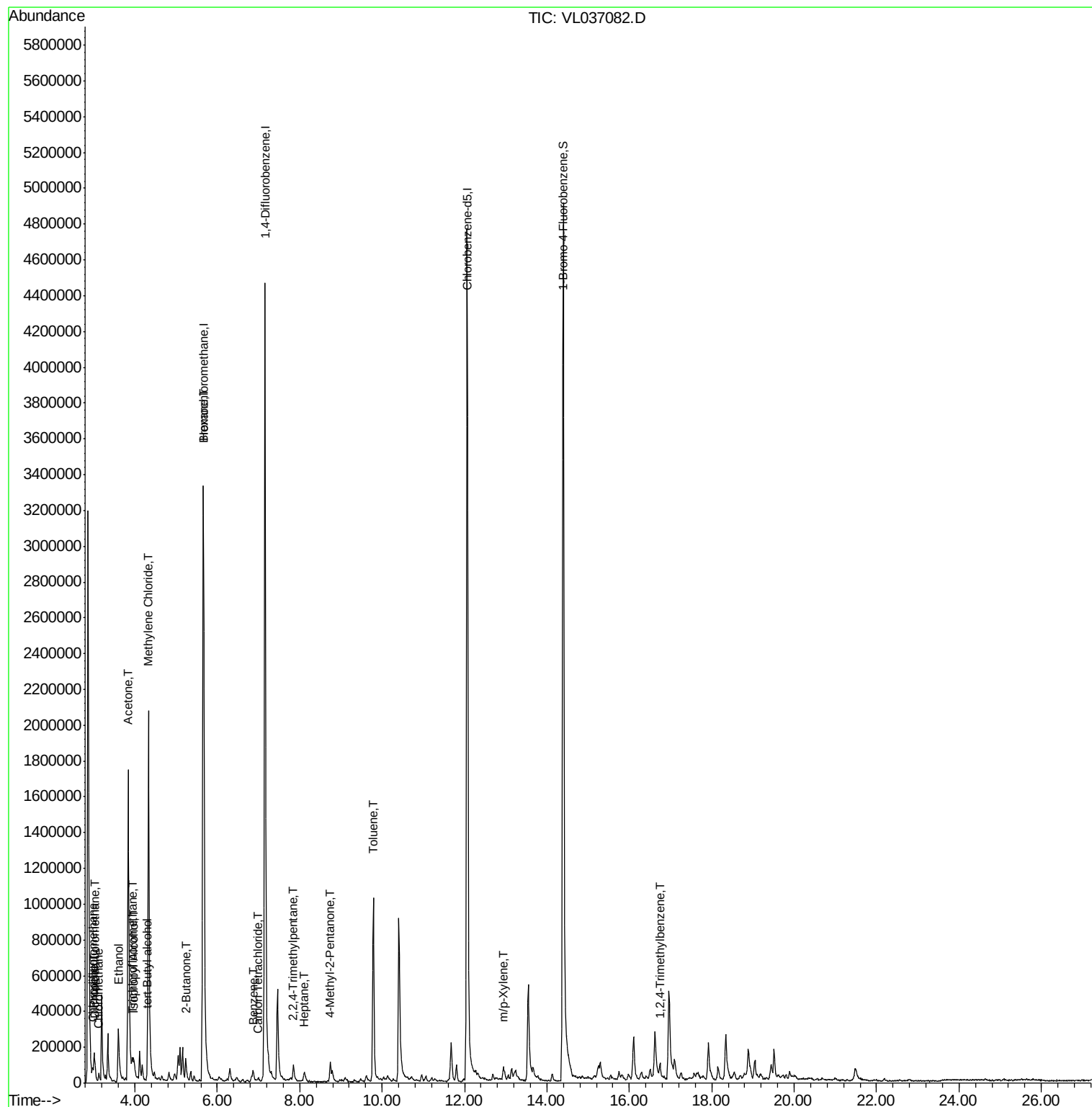
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037082.D
Acq On : 1 Jun 2021 22:56
Operator : SY/AP
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Misc : 400mL/MSVOA L
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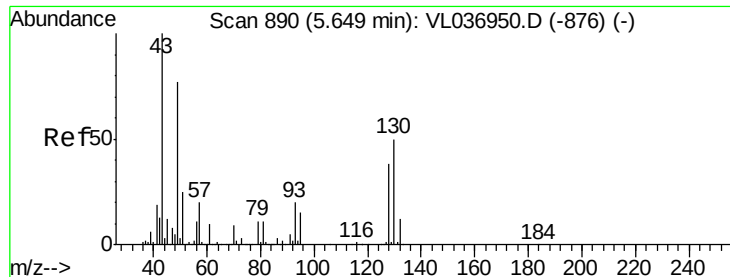
Instrument :
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Quant Time: Jun 02 04:18:00 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Instrument :

MSVOA_L

ClientSampleId :

AA-2

Tot Ion: 49 Resp: 1339250

Ion Ratio Lower Upper

49 100

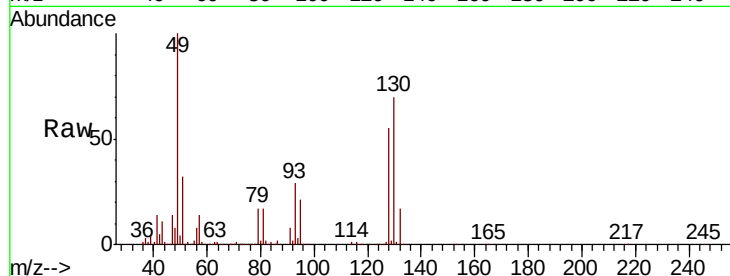
128 57.6 26.9 80.7

130 73.3 33.8 101.4

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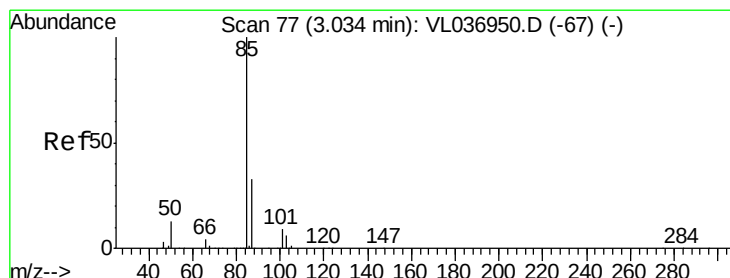
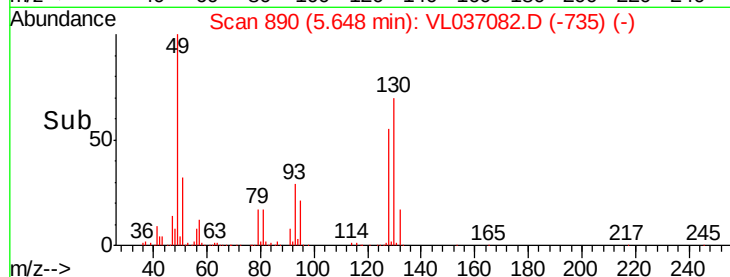
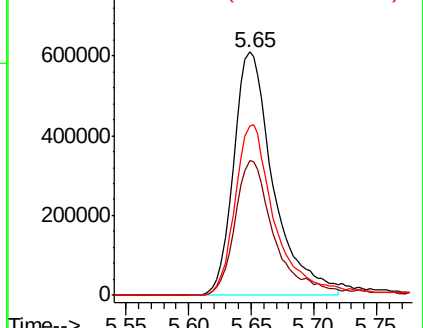
6/7/2021 2:59:16 PM



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: 0.260 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL037082.D

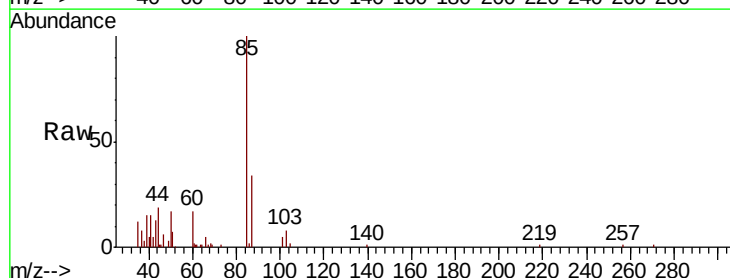
Acq: 1 Jun 2021 22:56

Tgt Ion: 85 Resp: 59164

Ion Ratio Lower Upper

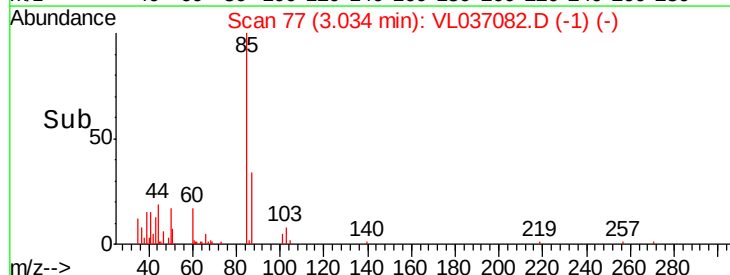
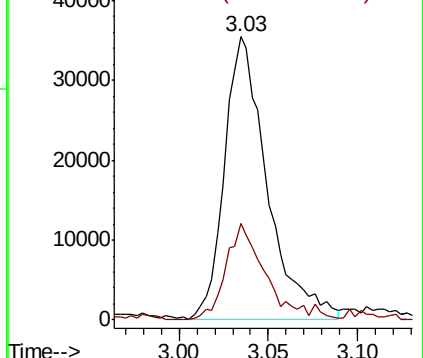
85 100

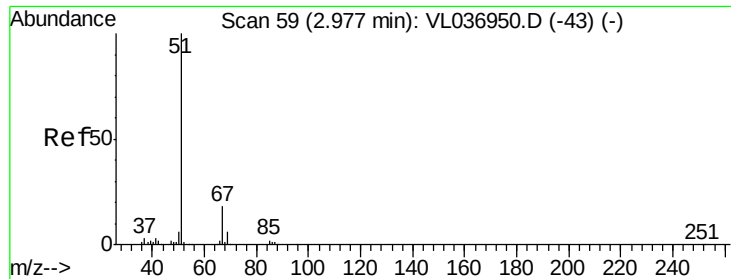
87 34.2 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.375 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Instrument :

MSVOA_L

ClientSampleId :

AA-2

Tot Ion: 51 Resp: 92026

Ion Ratio Lower Upper

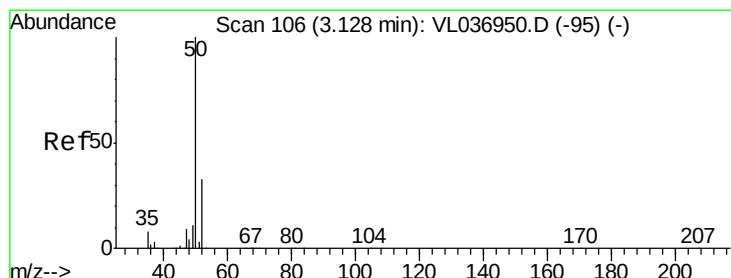
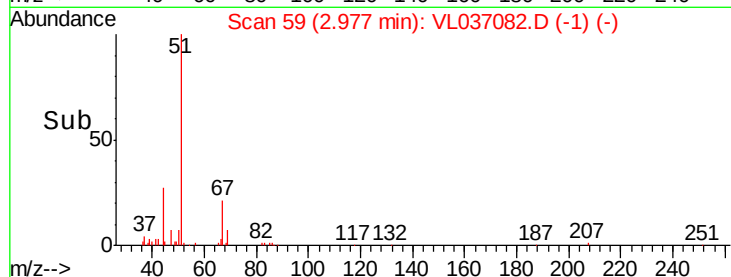
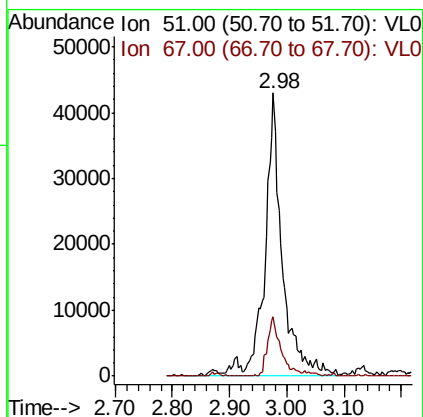
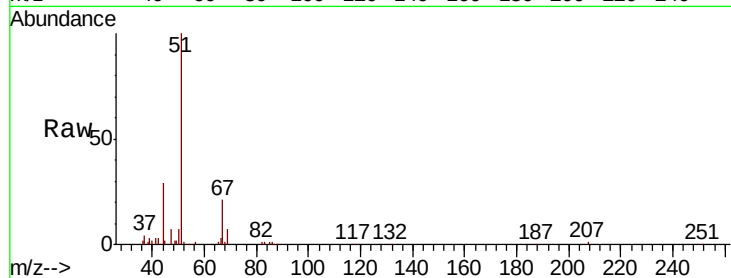
51 100

67 16.9 14.6 21.8

Manual Integrations
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#4

Chloromethane

Concen: 0.565 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037082.D

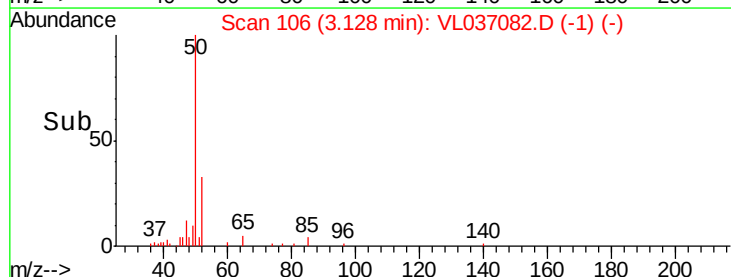
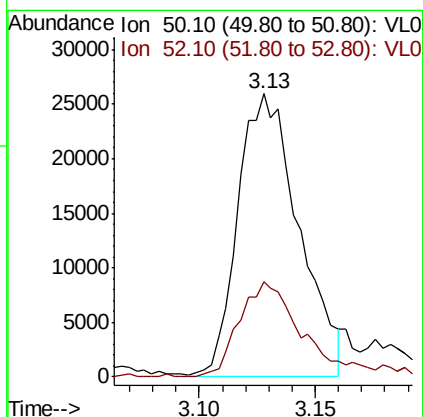
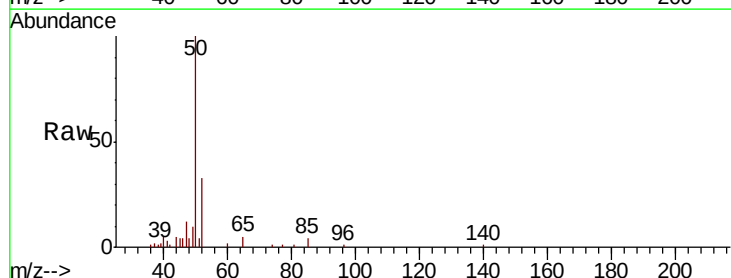
Acq: 1 Jun 2021 22:56

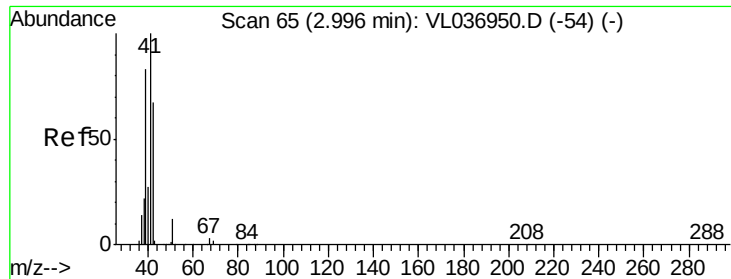
Tgt Ion: 50 Resp: 47195

Ion Ratio Lower Upper

50 100

52 33.7 26.1 39.1





#9

Propene

Concen: 0.412 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Instrument :

MSVOA_L

ClientSampled :

AA-2

Tot Ion: 41 Resp: 36209

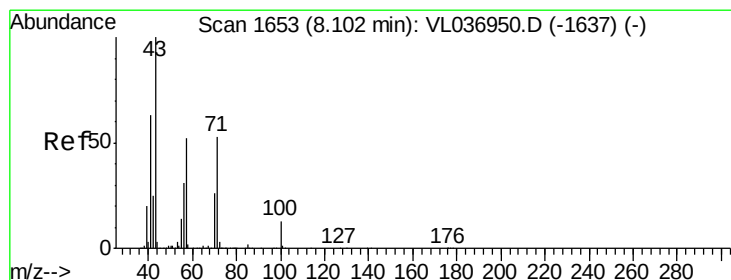
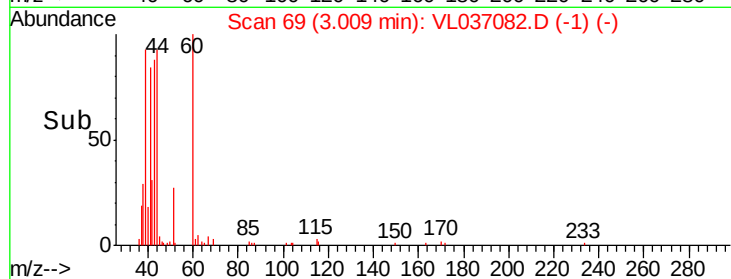
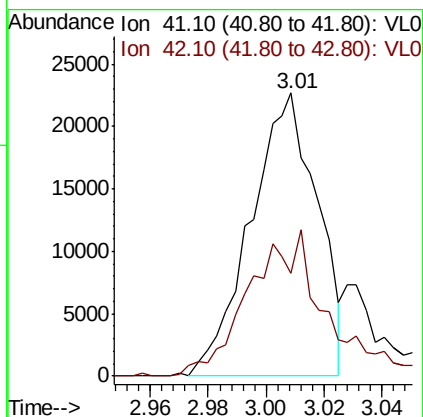
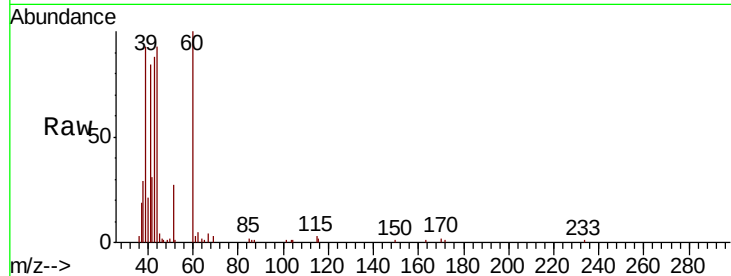
Ion Ratio Lower Upper

41 100

42 63.0 53.9 80.9

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#10

Heptane

Concen: 0.096 ppbv m

RT: 8.11 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL037082.D

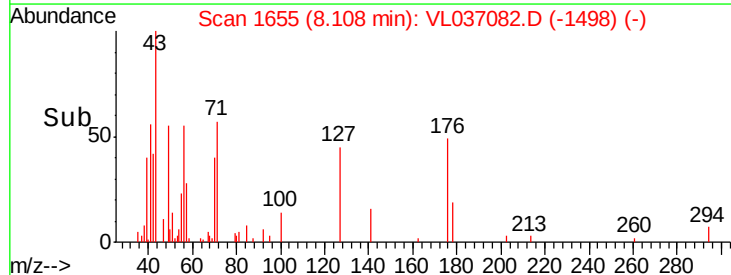
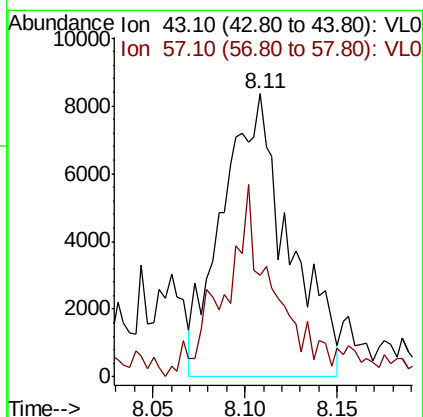
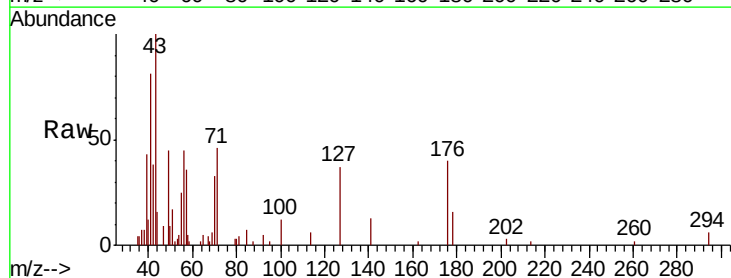
Acq: 1 Jun 2021 22:56

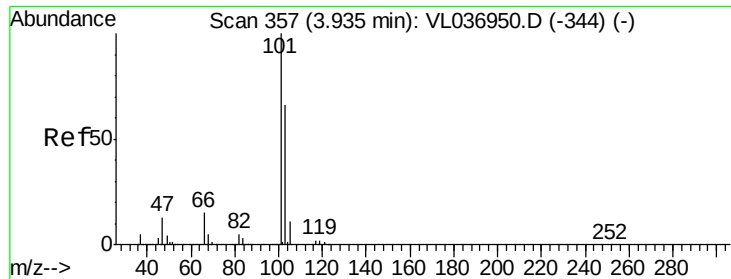
Tgt Ion: 43 Resp: 20911

Ion Ratio Lower Upper

43 100

57 58.4 41.0 61.6





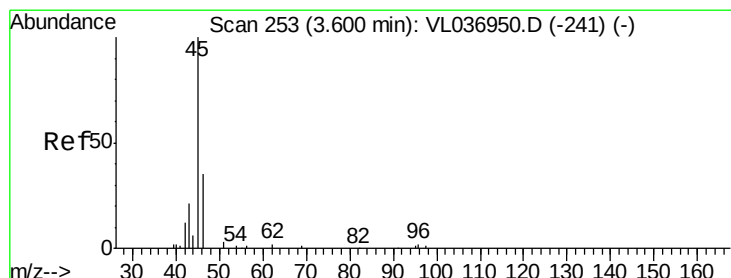
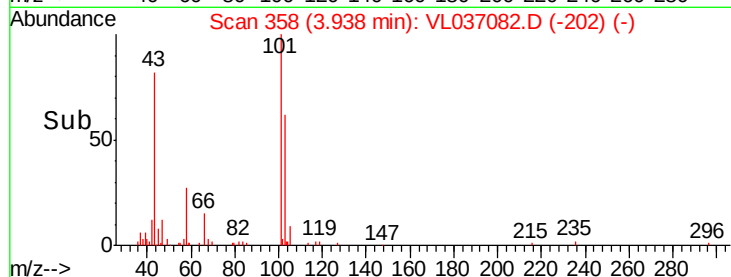
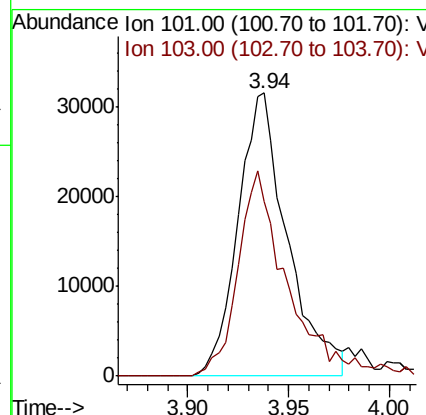
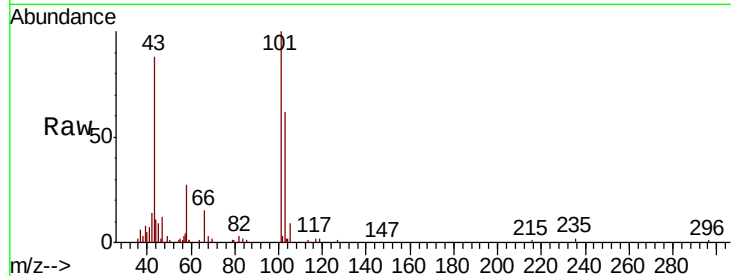
#11
 Trichlorofluoromethane
 Concen: 0.257 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL037082.D
 Acq: 1 Jun 2021 22:56

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.6	79.0

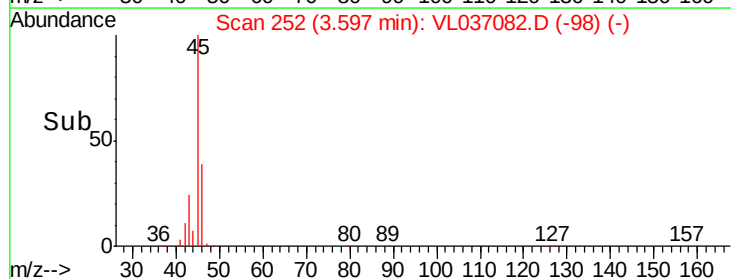
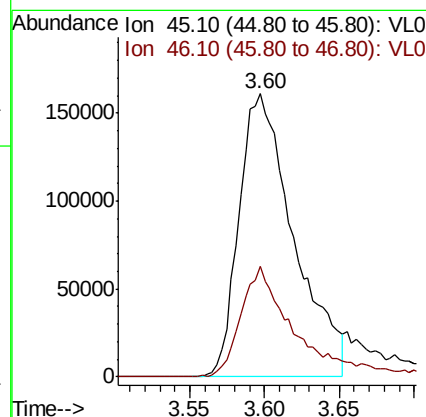
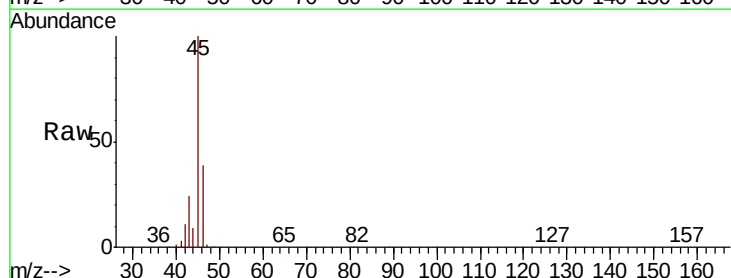
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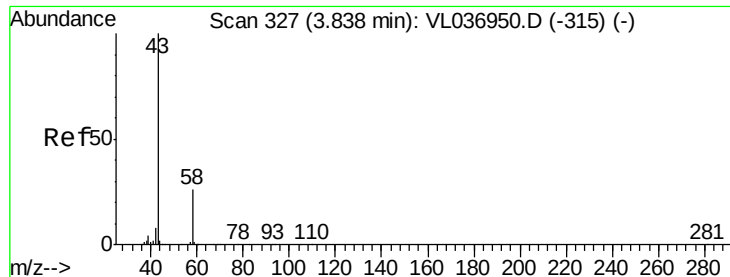
MMDadoda
 6/7/2021 2:59:16 PM



#13
 Ethanol
 Concen: 34.937 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: VL037082.D
 Acq: 1 Jun 2021 22:56

Tgt Ion	Ratio	Lower	Upper
45	100		
46	40.5	16.3	65.3





#15

Acetone

Concen: 17.275 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Instrument :

MSVOA_L

ClientSampled :

AA-2

Tot Ion: 43 Resp: 2369719

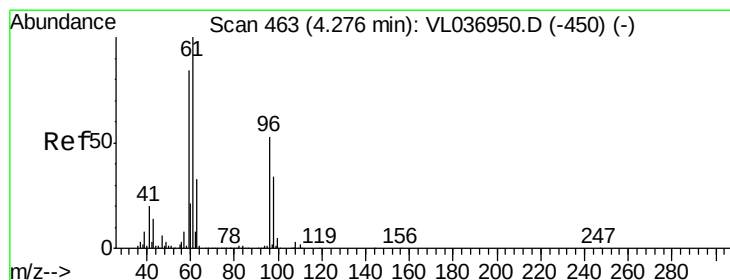
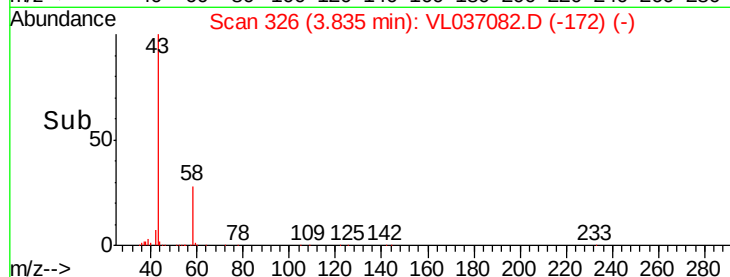
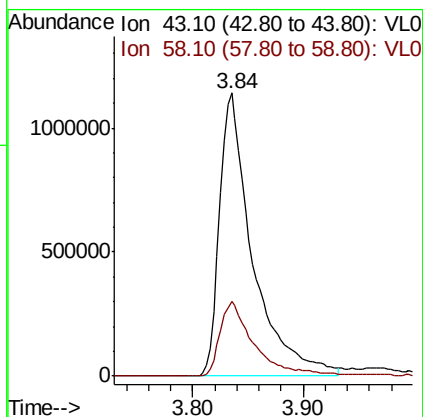
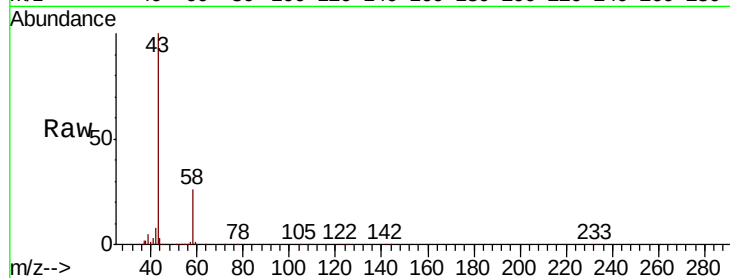
Ion Ratio Lower Upper

43 100

58 28.5 24.0 36.0

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 0.221 ppbv m

RT: 4.29 min Scan# 469

Delta R.T. 0.02 min

Lab File: VL037082.D

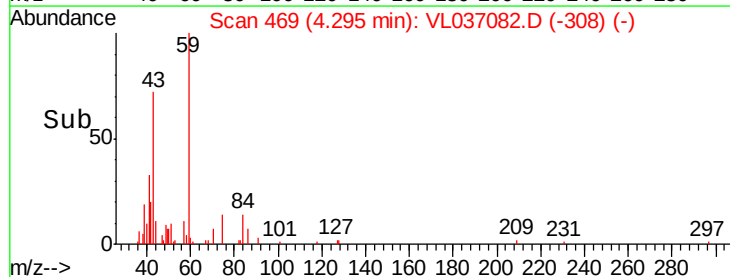
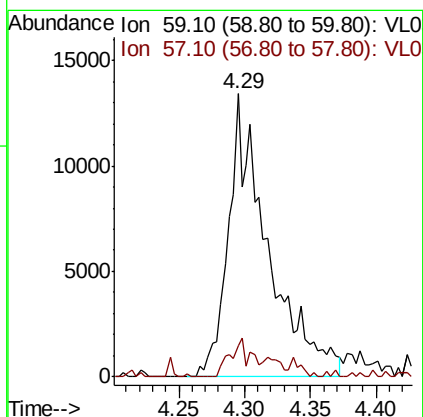
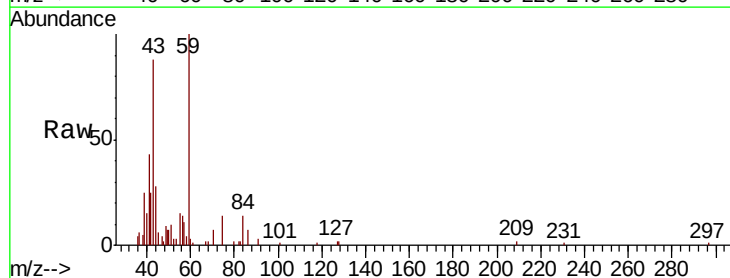
Acq: 1 Jun 2021 22:56

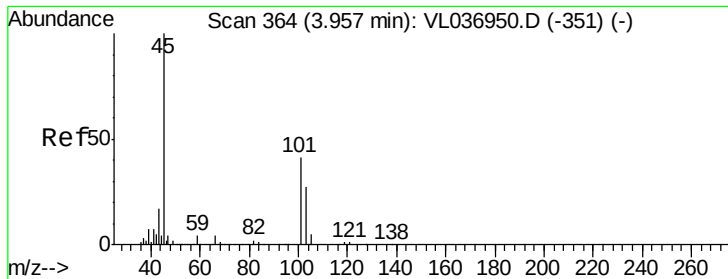
Tgt Ion: 59 Resp: 27802

Ion Ratio Lower Upper

59 100

57 12.9 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 1.660 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Instrument :

MSVOA_L

ClientSampleId :

AA-2

Tot Ion: 45 Resp: 122389

Ion Ratio Lower Upper

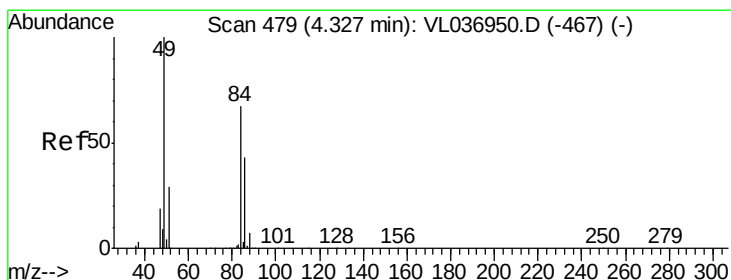
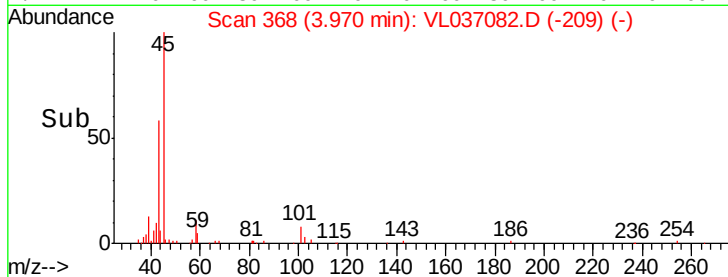
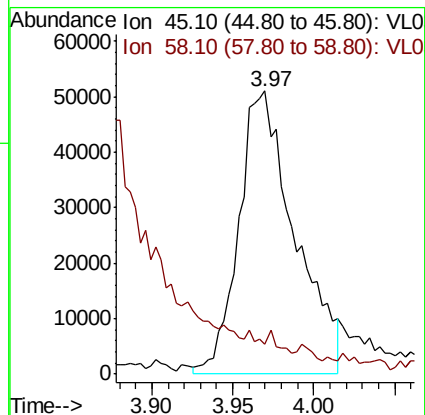
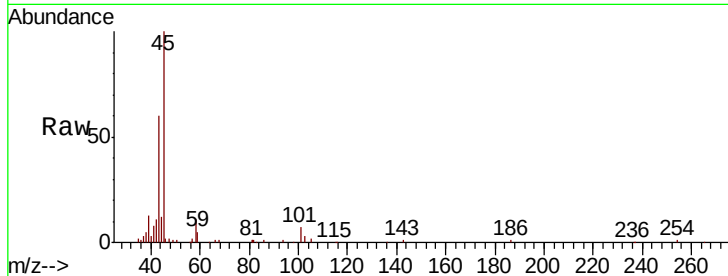
45 100

58 555.9 37.2 55.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 12.347 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Tgt Ion: 84 Resp: 907906

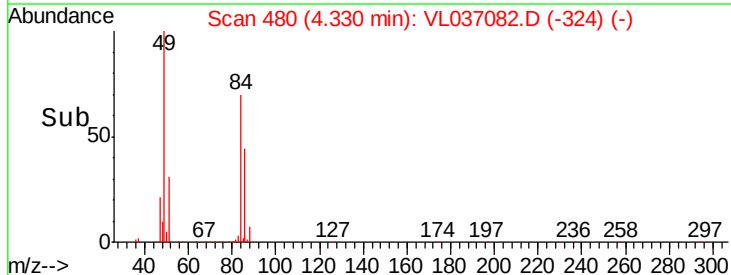
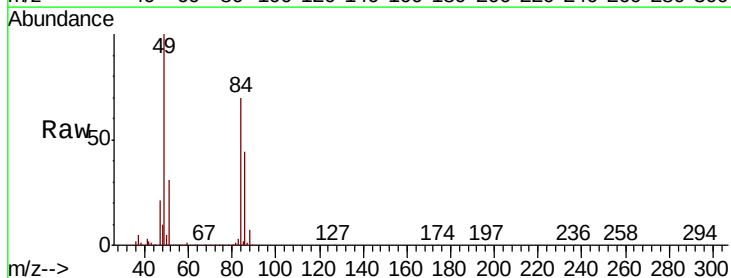
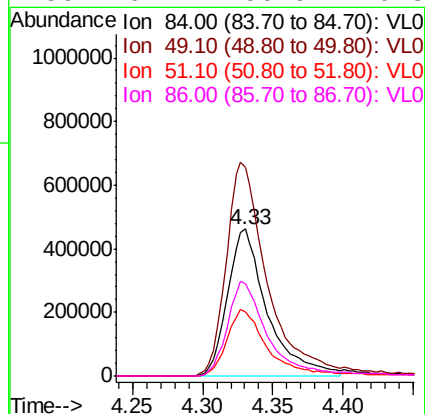
Ion Ratio Lower Upper

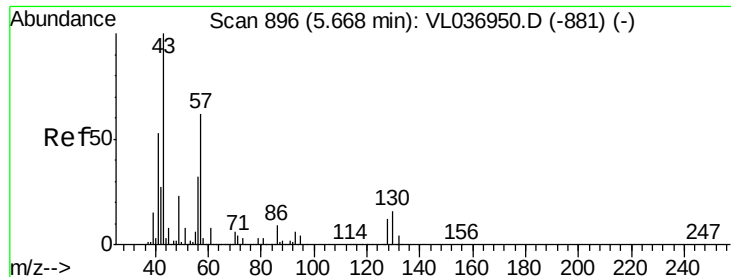
84 100

49 142.2 119.8 179.6

51 43.8 35.1 52.7

86 62.7 50.9 76.3





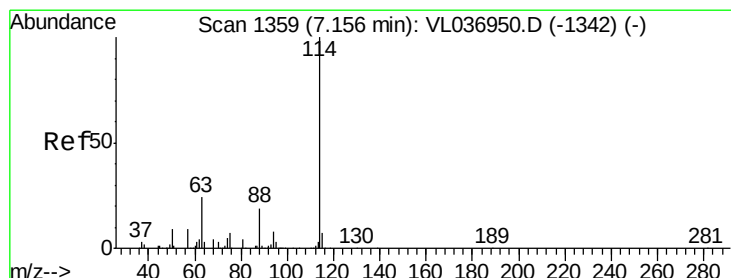
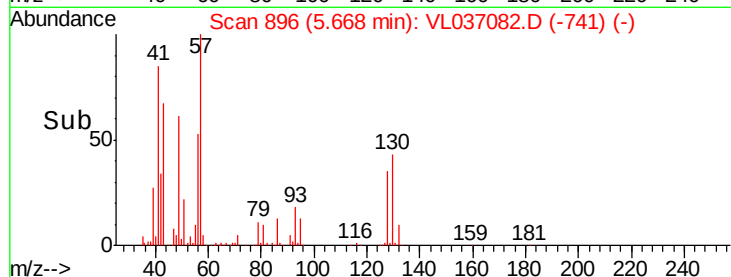
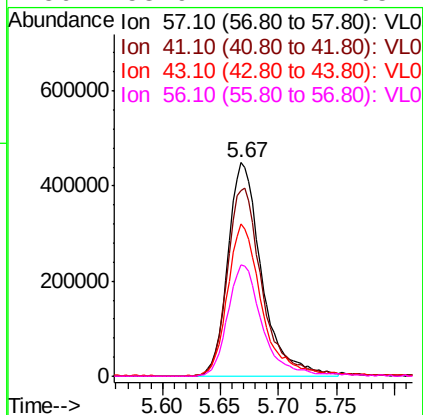
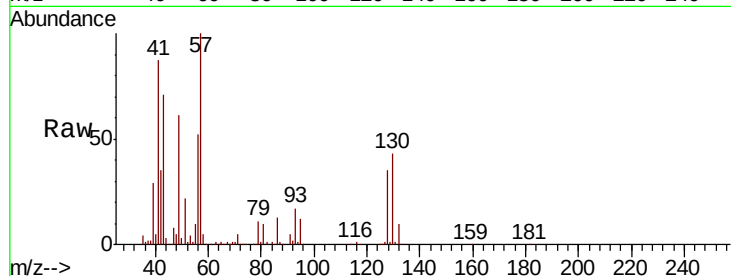
#26
Hexane
Concen: 5.407 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Instrument :
MSVOA_L
ClientSampleId :
AA-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	92.5	70.5	105.7
43	72.4	165.8	248.8#
56	53.9	42.2	63.4

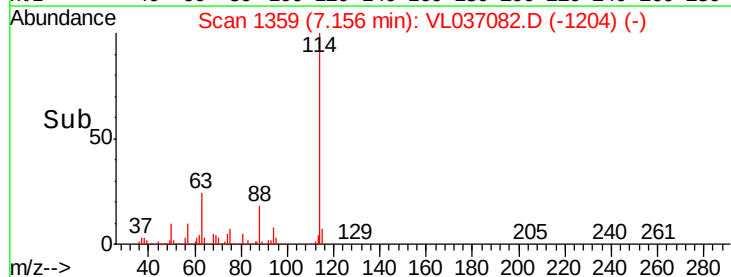
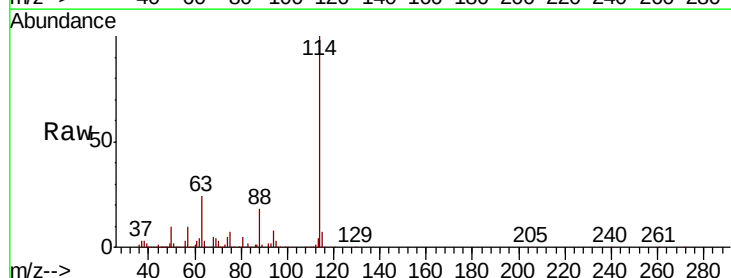
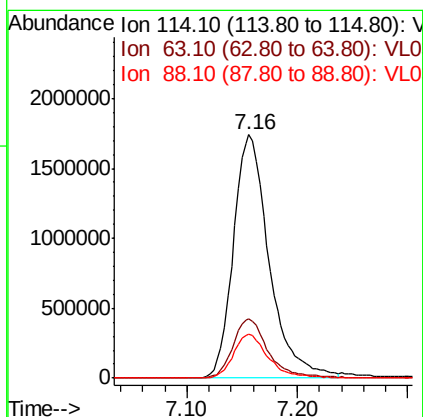
Manual Integrations
APPROVED

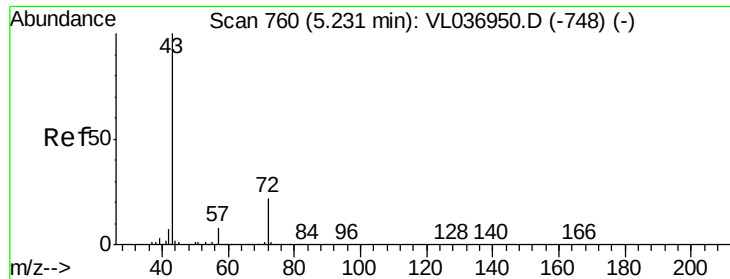
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	17.8	14.6	21.8





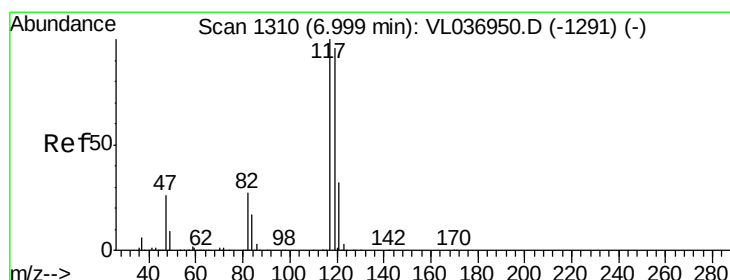
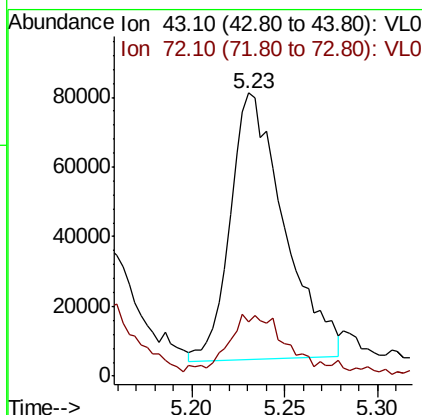
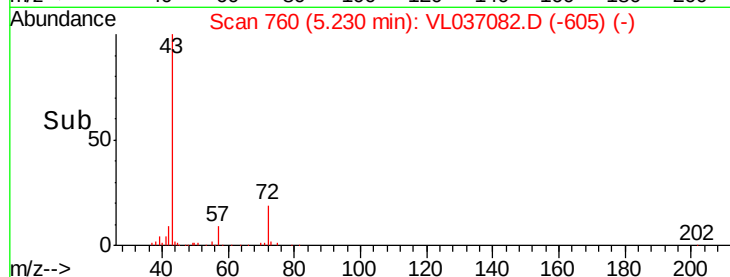
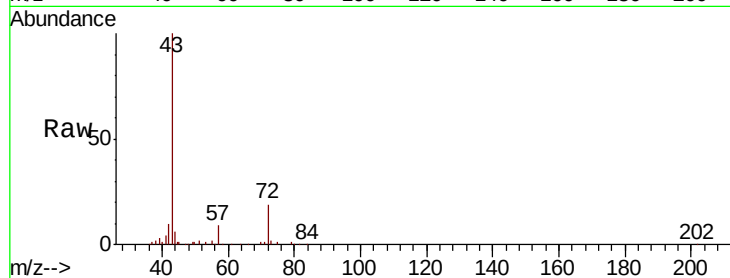
#34
2-Butanone
Concen: 1.085 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.00 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Instrument :
MSVOA_L
ClientSampled :
AA-2

Tot Ion: 43 Resp: 155077
Ion Ratio Lower Upper
43 100
72 30.1 19.0 28.4#

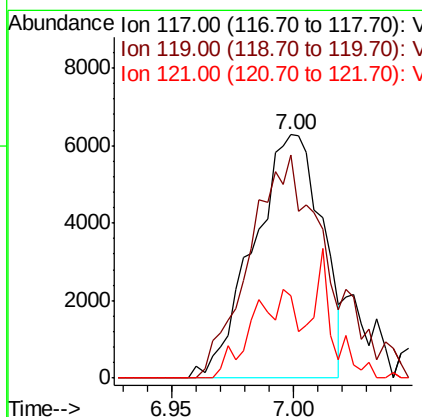
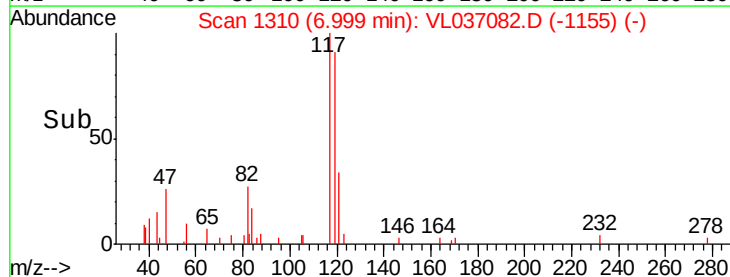
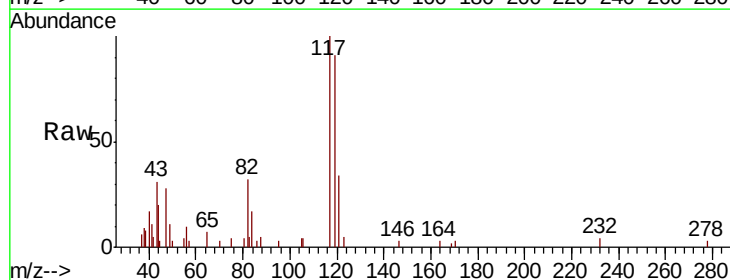
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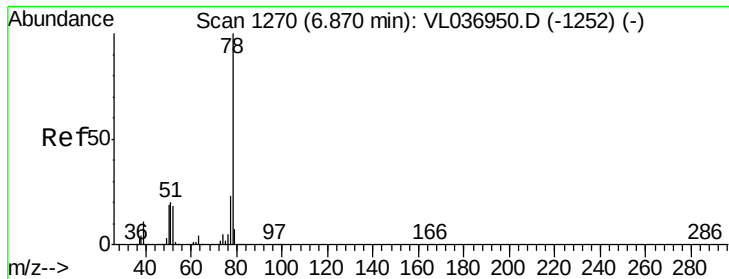
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#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Tgt Ion: 117 Resp: 12187
Ion Ratio Lower Upper
117 100
119 91.5 76.6 114.8
121 33.9 25.8 38.6





#36

Benzene

Concen: 0.121 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Instrument :

MSVOA_L

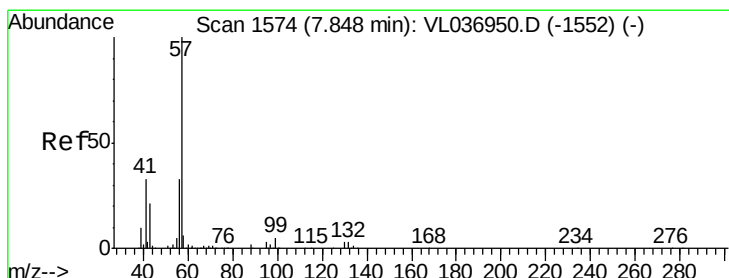
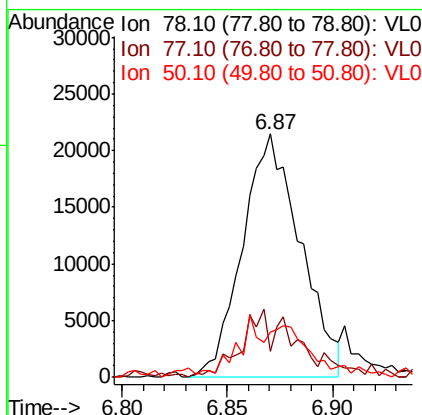
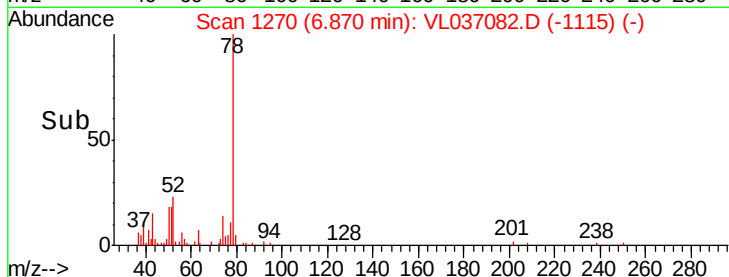
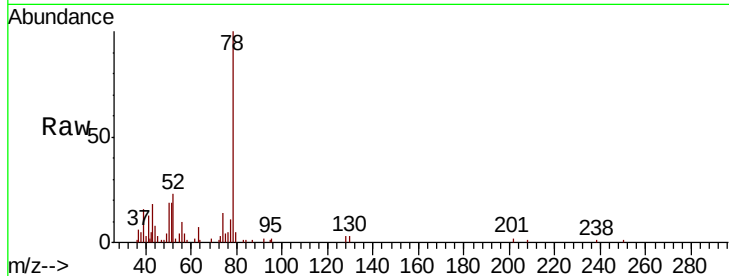
ClientSampled :

AA-2

Tot Ion:	78	Resp:	41063
Ion Ratio	Lower	Upper	
78	100		
77	10.6	18.6	28.0#
50	14.9	15.0	22.4#

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#44

2,2,4-Trimethylpentane

Concen: 0.122 ppbv m

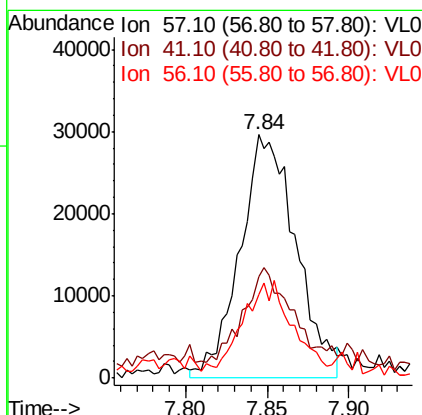
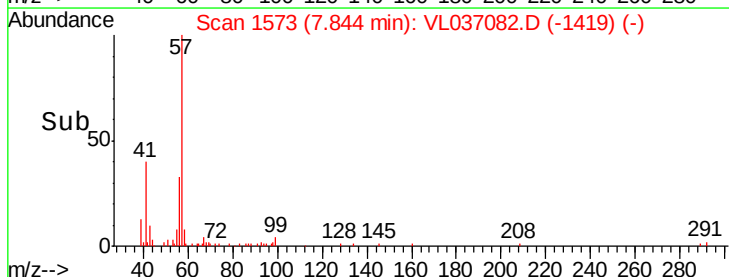
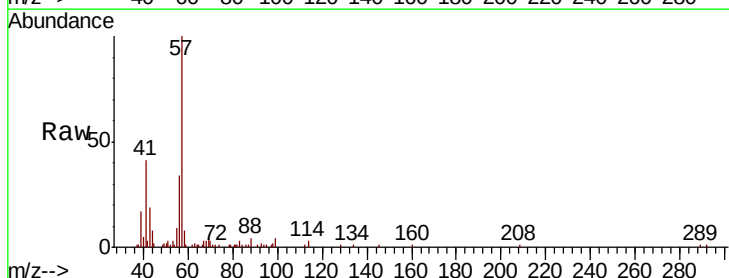
RT: 7.84 min Scan# 1573

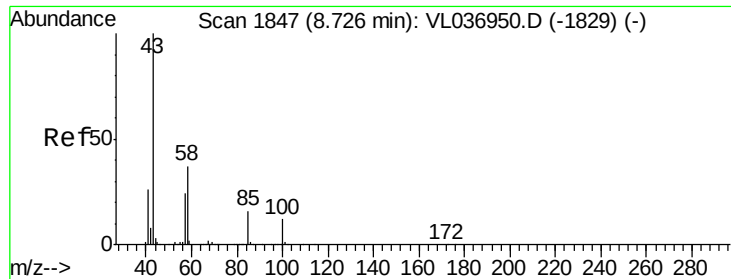
Delta R.T. -0.00 min

Lab File: VL037082.D

Acq: 1 Jun 2021 22:56

Tgt Ion:	57	Resp:	70749
Ion Ratio	Lower	Upper	
57	100		
41	0.0	27.0	40.4#
56	37.2	25.4	38.2





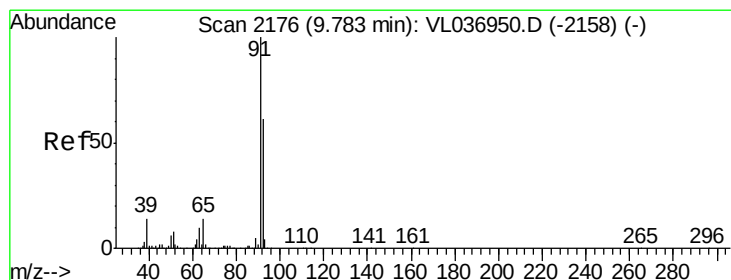
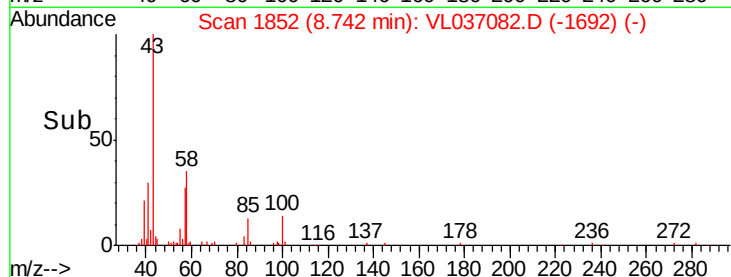
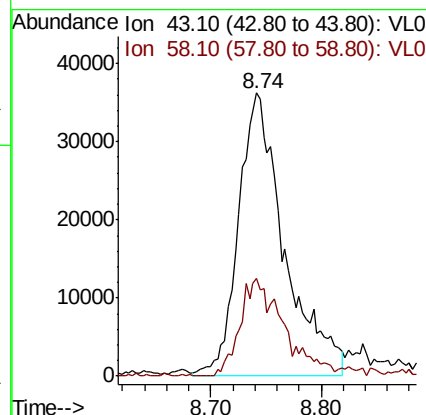
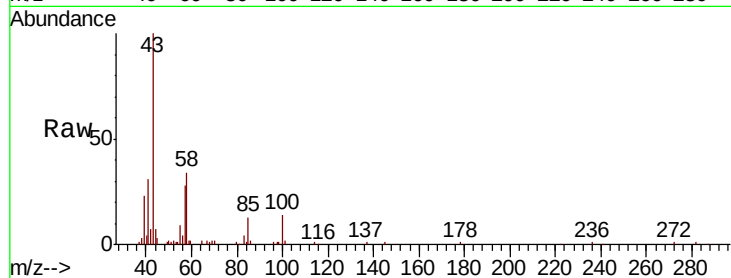
#50
4-Methyl-2-Pentanone
Concen: 0.445 ppbv m
RT: 8.74 min Scan# 1852
Delta R.T. 0.02 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Instrument :
MSVOA_L
ClientSampleId :
AA-2

Tot Ion	43.10 (42.80 to 43.80): VL0	Resp	104944
Ion Ratio	43	100	Lower Upper
	58	34.2	29.4 44.2

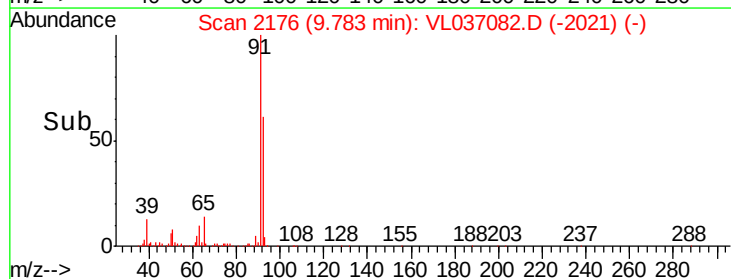
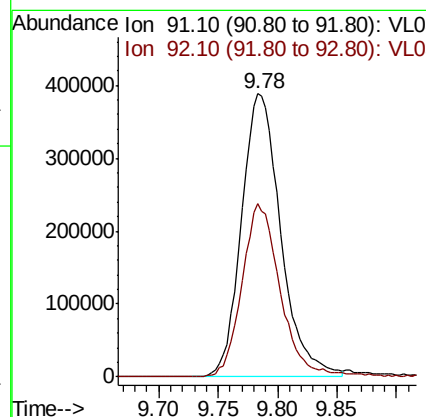
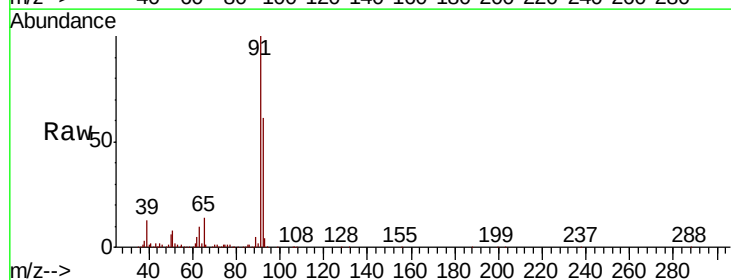
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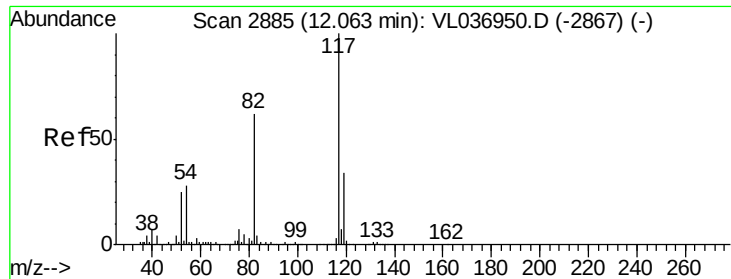
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#53
Toluene
Concen: 2.212 ppbv
RT: 9.78 min Scan# 2176
Delta R.T. -0.00 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Tgt Ion	91.10 (90.80 to 91.80): VL0	Resp	889754
Ion Ratio	91	100	Lower Upper
	92	60.3	49.5 74.3





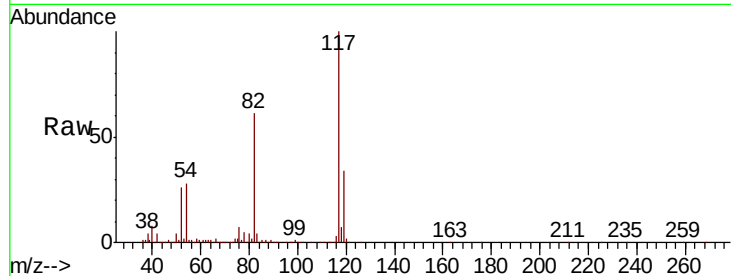
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Instrument :
MSVOA_L
ClientSampled :
AA-2

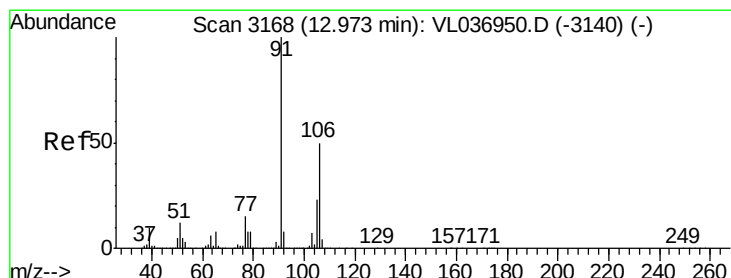
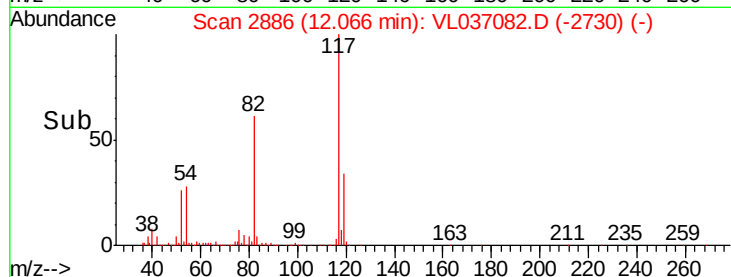
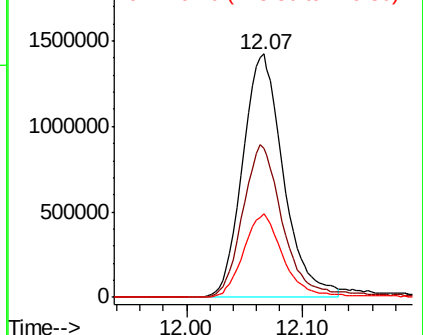
Tot Ion:117 Resp: 3486294
Ion Ratio Lower Upper
117 100
82 64.0 52.6 79.0
119 35.0 46.6 70.0#

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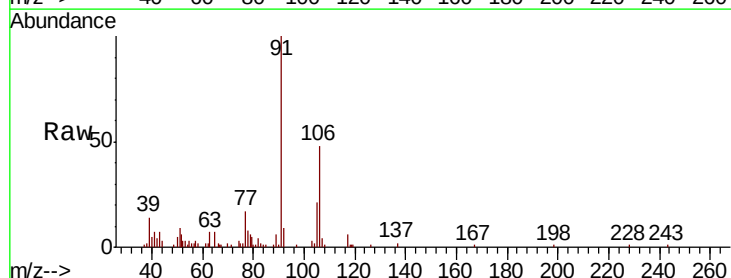


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

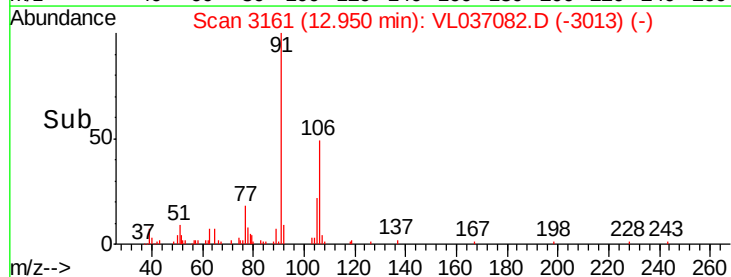
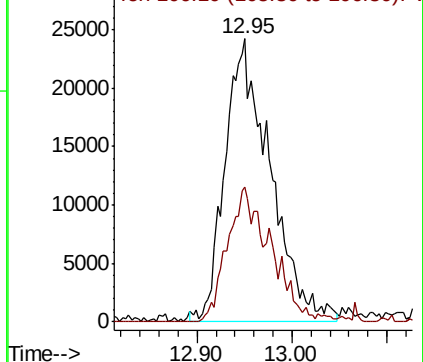


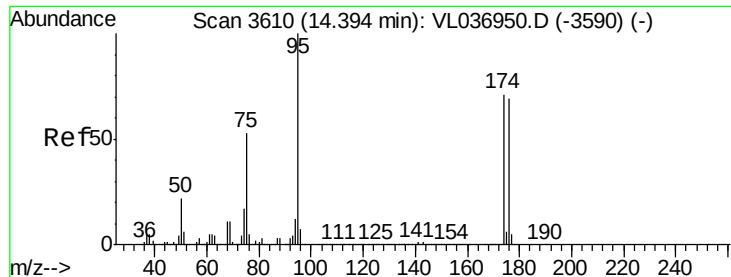
#59
m/p-Xylene
Concen: 0.197 ppbv m
RT: 12.95 min Scan# 3161
Delta R.T. -0.02 min
Lab File: VL037082.D
Acq: 1 Jun 2021 22:56

Tgt Ion: 91 Resp: 80029
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





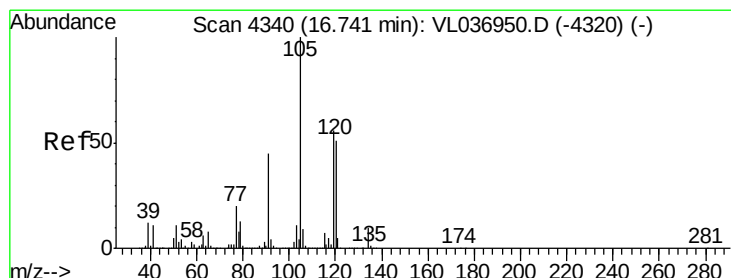
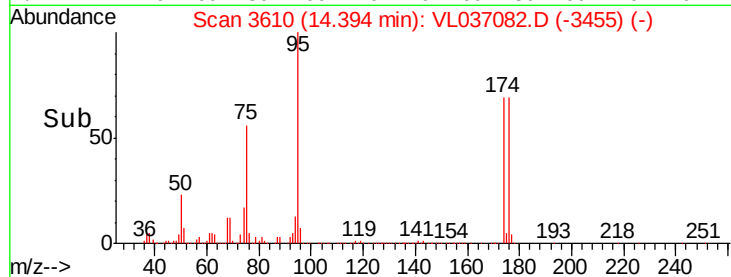
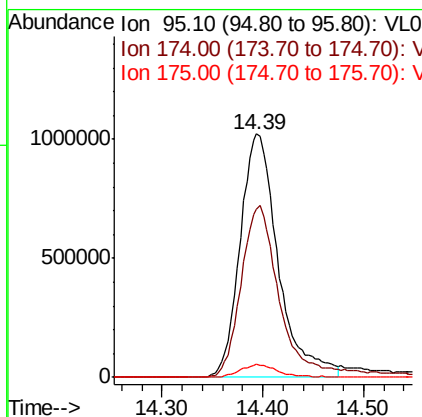
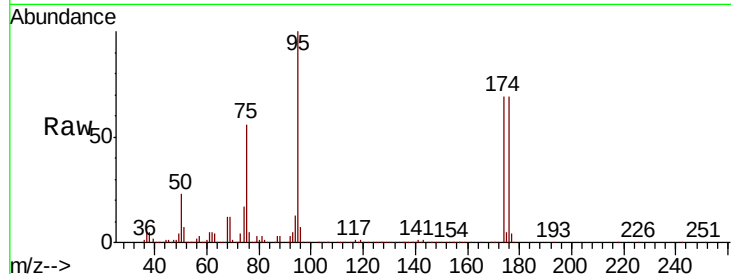
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.237 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037082.D
 Acq: 1 Jun 2021 22:56

Instrument :
 MSVOA_L
 ClientSampled :
 AA-2

Tot Ion: 95 Resp: 2681036
 Ion Ratio Lower Upper
 95 100
 174 74.5 58.4 87.6
 175 5.3 4.4 6.6

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL037082.D
 Acq: 1 Jun 2021 22:56

Tgt Ion: 105 Resp: 55763
 Ion Ratio Lower Upper
 105 100
 120 44.3 40.6 61.0
 91 9.8 37.4 56.0#
 77 12.1 16.2 24.4#

