

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 :
 AA-3

Manual Integrations
 APPROVED

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 6/7/2021 2:59:21 PM

Quant Time: Jun 02 04:23:21 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
 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
13) Ethanol	3.60	45	238727	20.873	ppbv	91
15) Acetone	3.83	43	2677349	20.005	ppbv	97
19) Isopropyl Alcohol	3.98	45	73088m	1.016	ppbv	
20) Methylene Chloride	4.33	84	1496069	20.854	ppbv	98
26) Hexane	5.67	57	1390515	8.464	ppbv #	47
34) 2-Butanone	5.23	43	80979	0.567	ppbv #	85
35) Carbon Tetrachloride	7.01	117	13975m	0.054	ppbv	
36) Benzene	6.88	78	40635m	0.120	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	69727	0.120	ppbv #	78
50) 4-Methyl-2-Pentanone	8.75	43	82237m	0.349	ppbv	
53) Toluene	9.79	91	1279850	3.181	ppbv	98
59) m/p-Xylene	12.94	91	57468m	0.141	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	53365	0.119	ppbv #	76

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

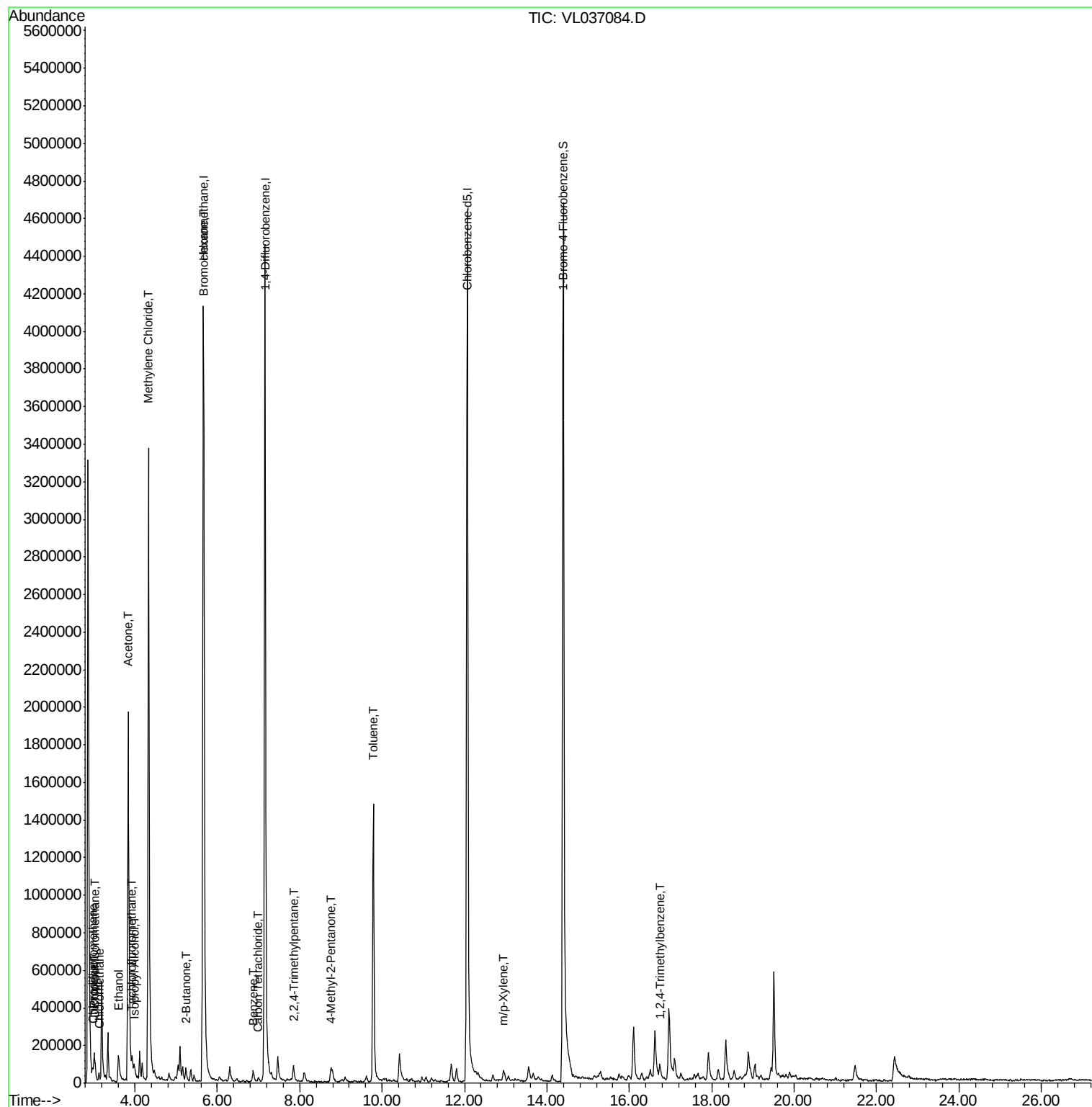
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037084.D
Acq On : 2 Jun 2021 00:16
Operator : SY/AP
Sample : M2548-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

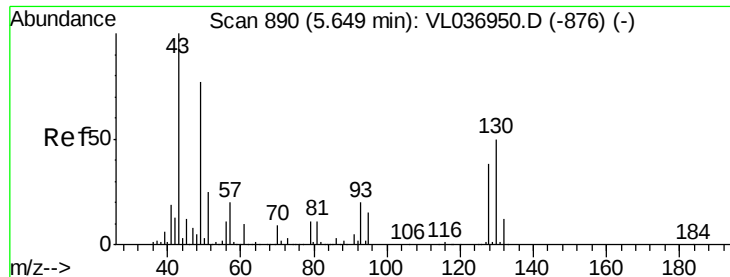
Instrument :
MSVOA_L
ClientSampleId :
AA-3

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Quant Time: Jun 02 04:23:21 2021
Quant Method : Z:\VOASRV\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: VL037084.D

Acq: 2 Jun 2021 00:16

Instrument :

MSVOA_L

ClientSampleId :

AA-3

Tot Ion: 49 Resp: 1306654

Ion Ratio Lower Upper

49 100

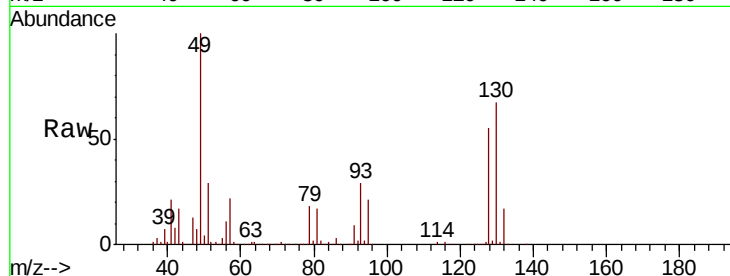
128 57.6 26.9 80.7

130 73.7 33.8 101.4

Manual Integrations
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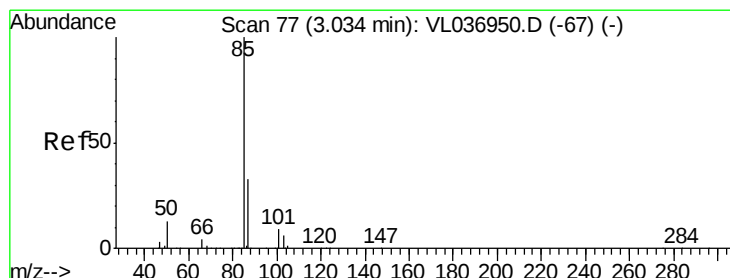
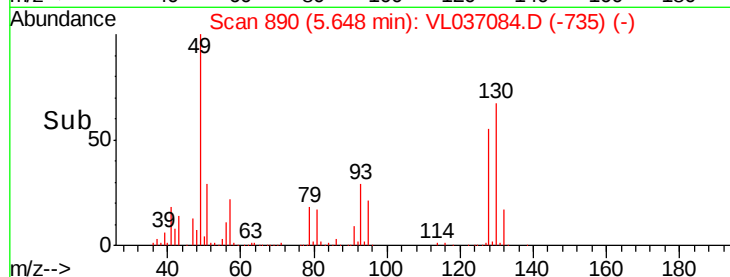
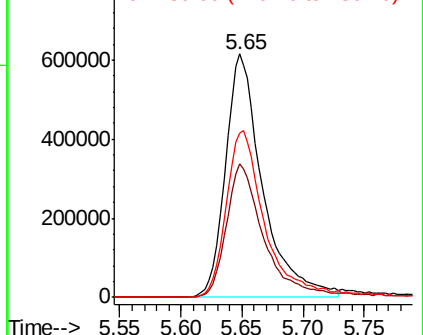
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.261 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL037084.D

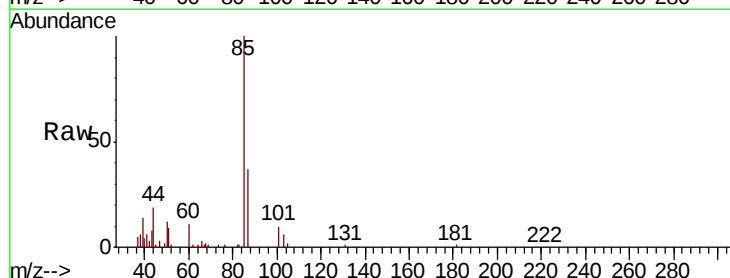
Acq: 2 Jun 2021 00:16

Tgt Ion: 85 Resp: 57751

Ion Ratio Lower Upper

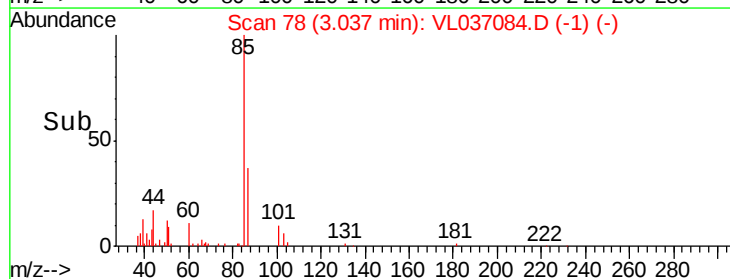
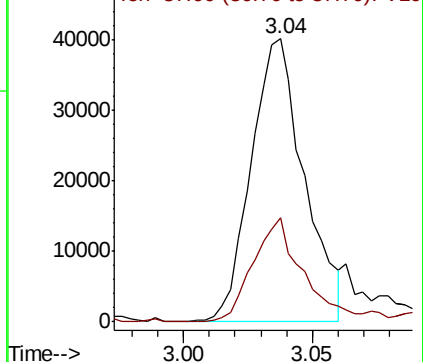
85 100

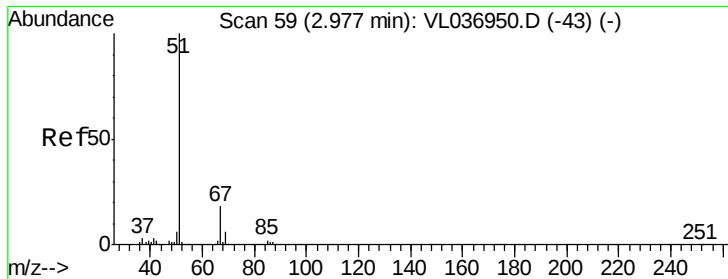
87 36.7 26.6 39.8



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 :

AA-3

Tot Ion: 51 Resp: 87190

Ion Ratio Lower Upper

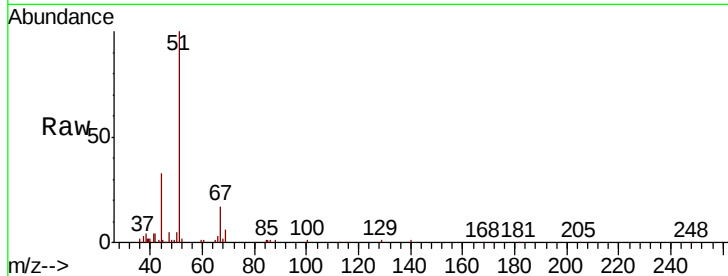
51 100

67 15.8 14.6 21.8

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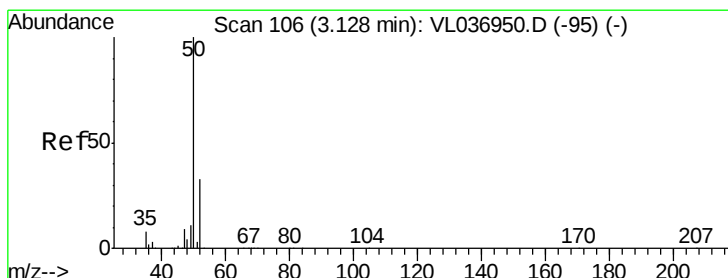
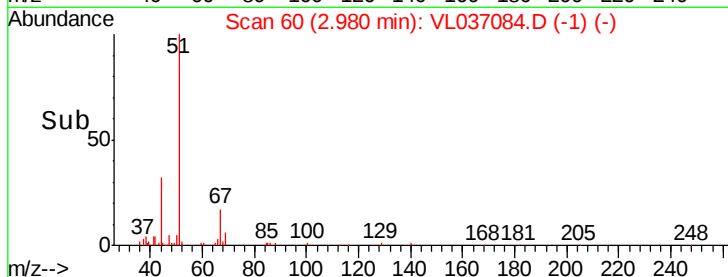
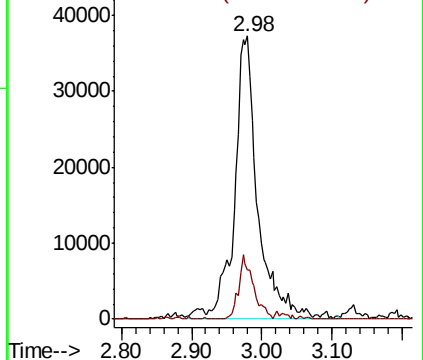
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.534 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037084.D

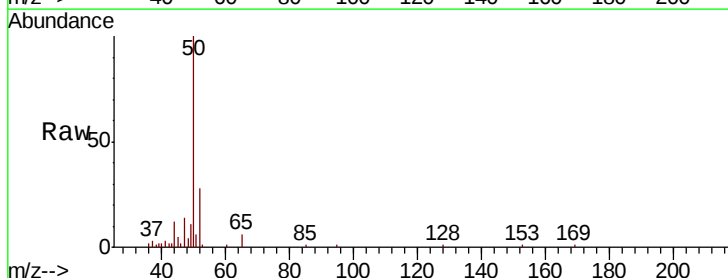
Acq: 2 Jun 2021 00:16

Tgt Ion: 50 Resp: 43509

Ion Ratio Lower Upper

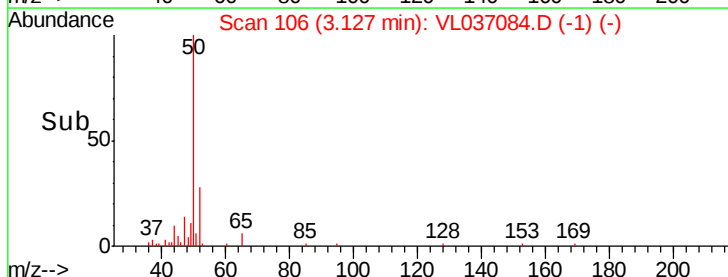
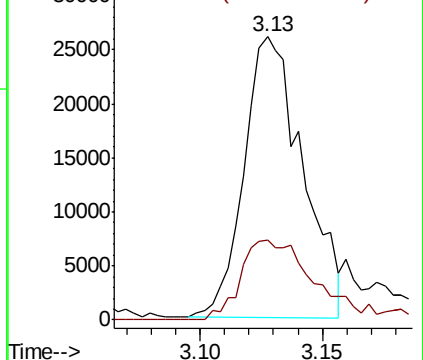
50 100

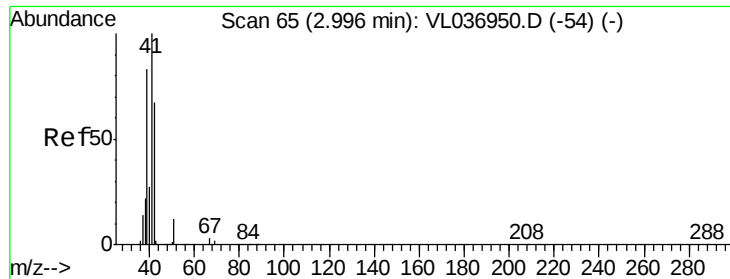
52 28.5 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#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 :

AA-3

Tot Ion: 41 Resp: 32129

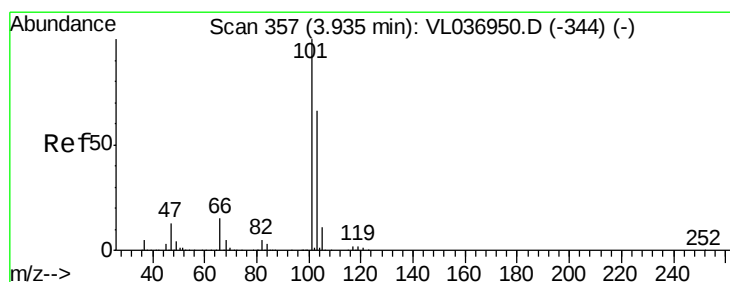
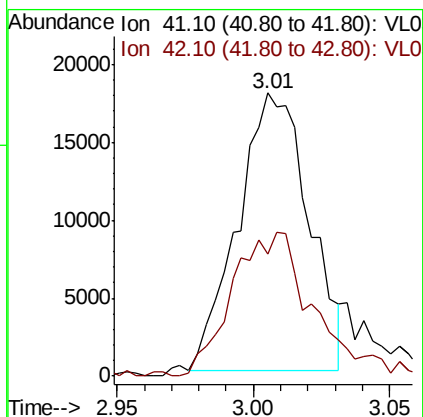
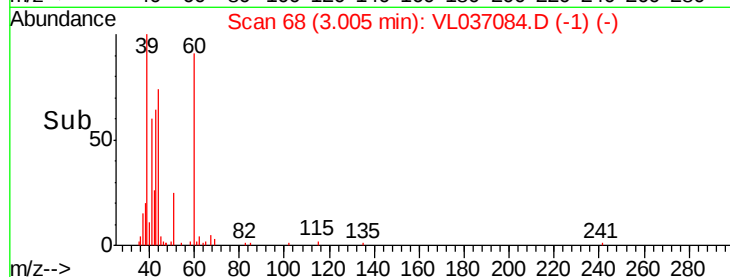
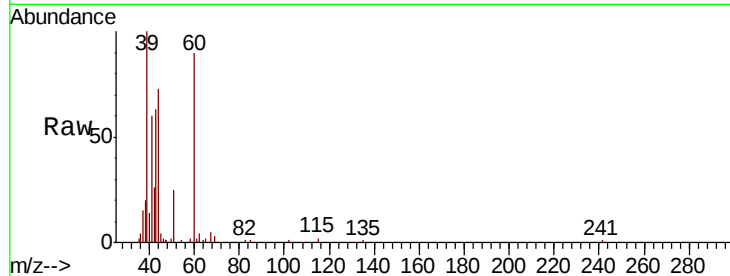
Ion Ratio Lower Upper

41 100

42 55.5 53.9 80.9

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#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037084.D

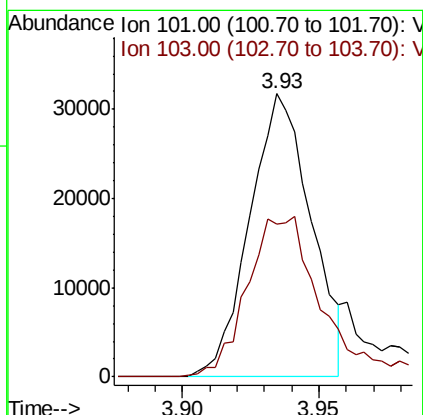
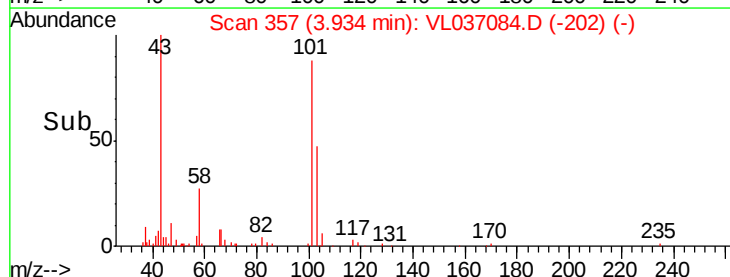
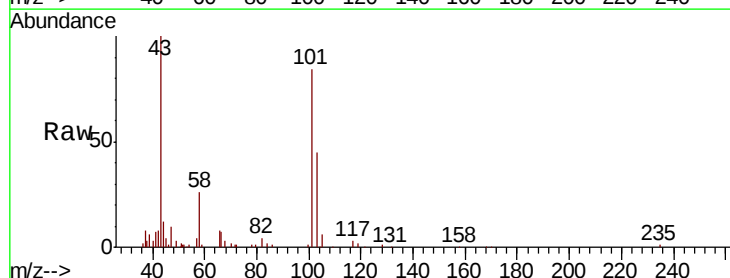
Acq: 2 Jun 2021 00:16

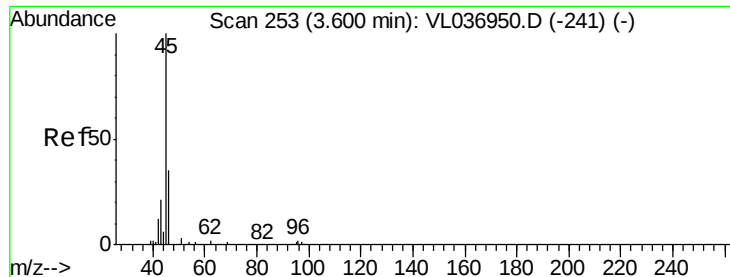
Tgt Ion: 101 Resp: 49630

Ion Ratio Lower Upper

101 100

103 53.1 52.6 79.0





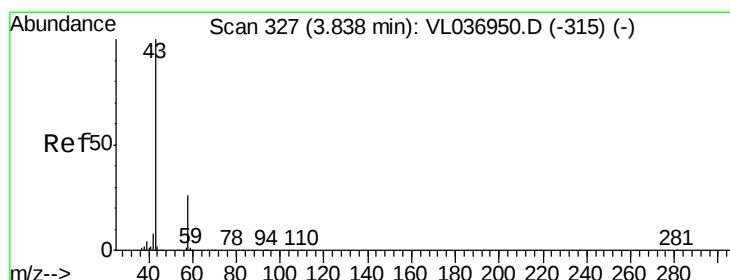
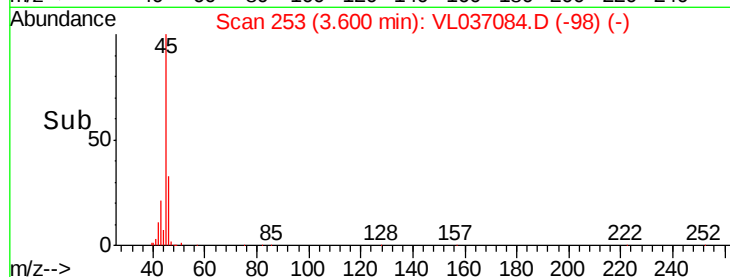
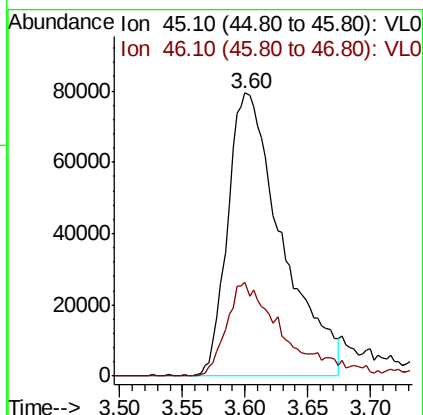
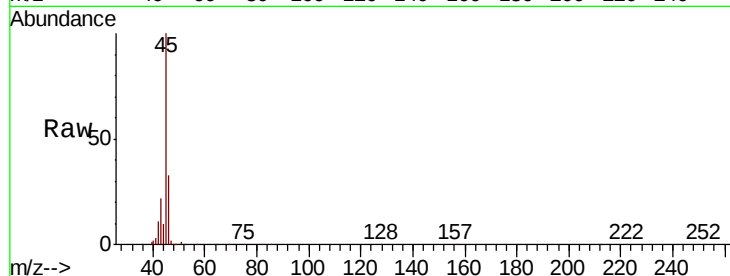
#13
Ethanol
Concen: 20.873 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampleId :
AA-3

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

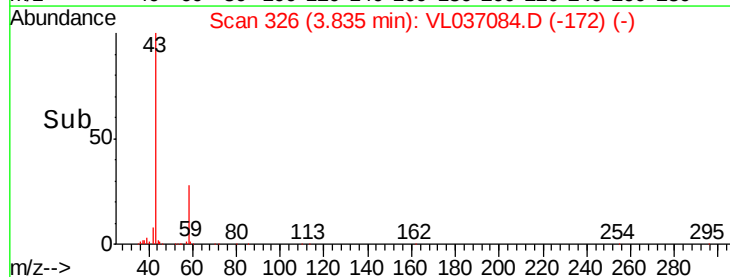
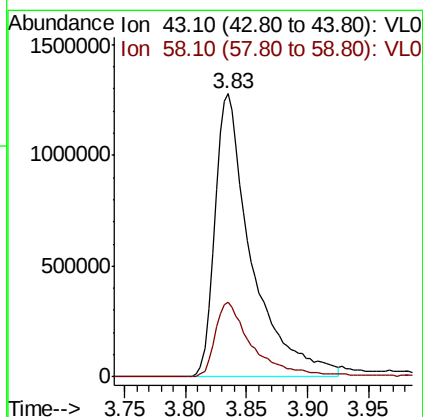
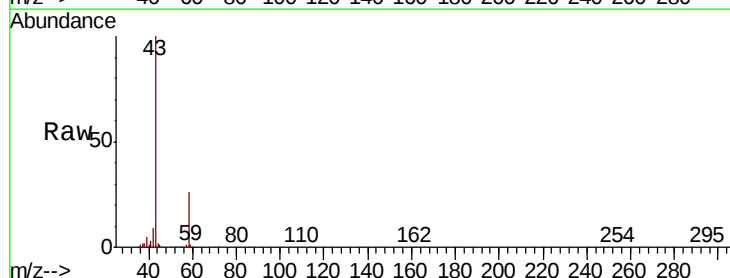
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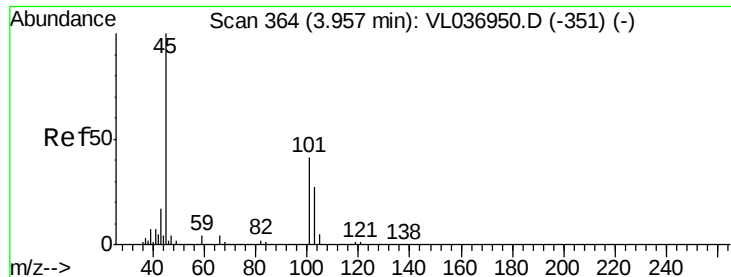
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#15
Acetone
Concen: 20.005 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt Ion	43	Resp	2677349
Ion Ratio	100	Lower	Upper
58	28.6	24.0	36.0





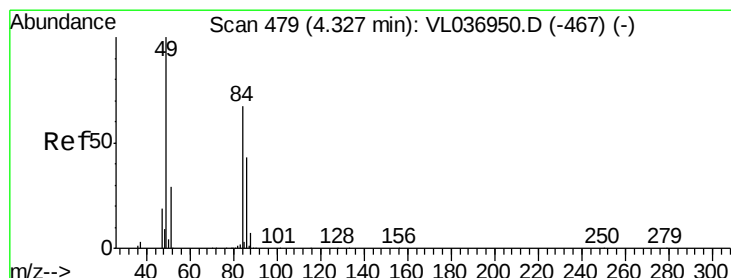
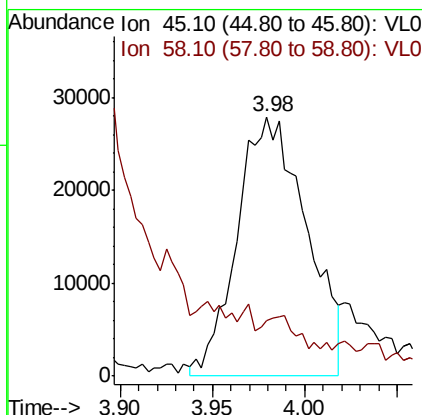
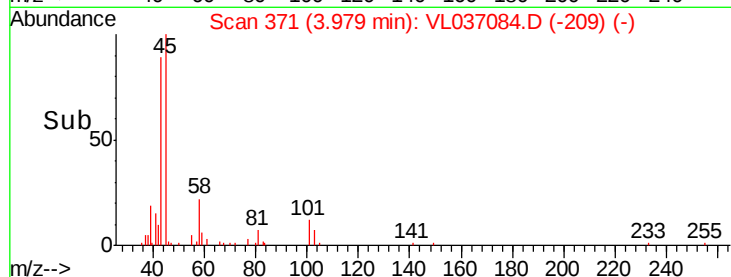
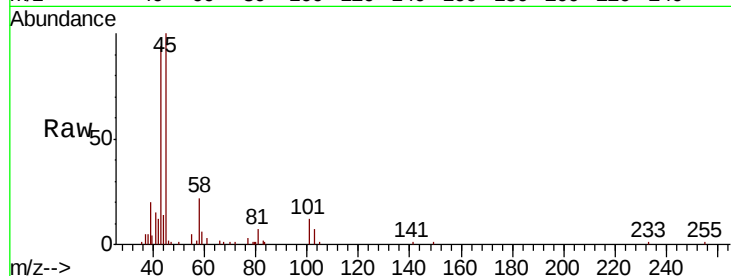
#19
Isopropyl Alcohol
Concen: 1.016 ppbv m
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampleId :
AA-3

Tot Ion: 45 Resp: 73088
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#

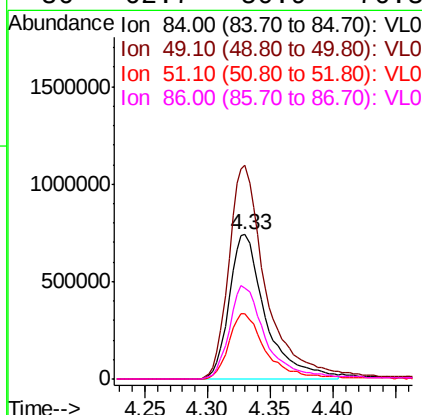
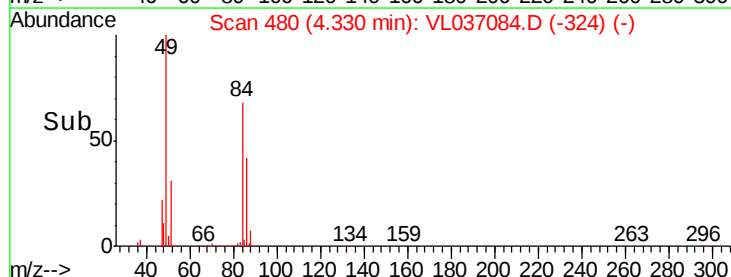
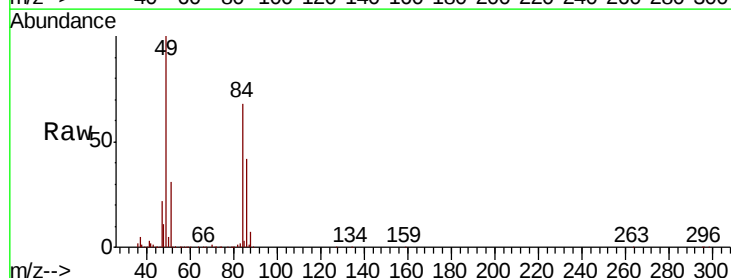
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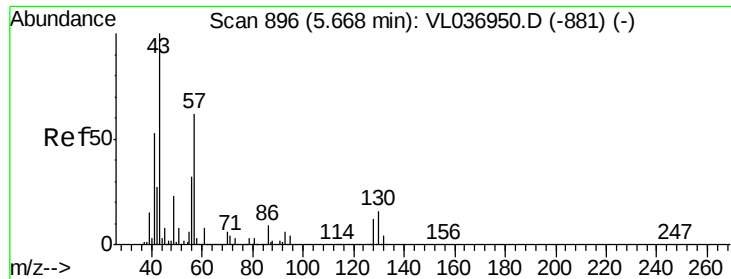
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#20
Methylene Chloride
Concen: 20.854 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

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





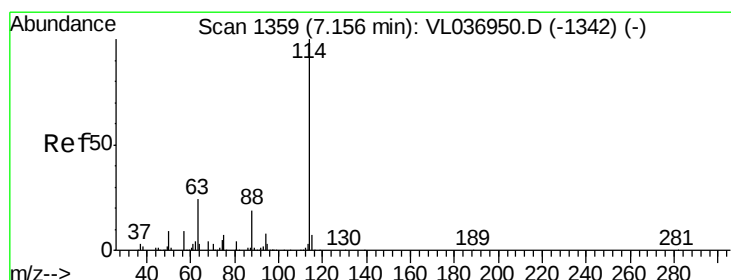
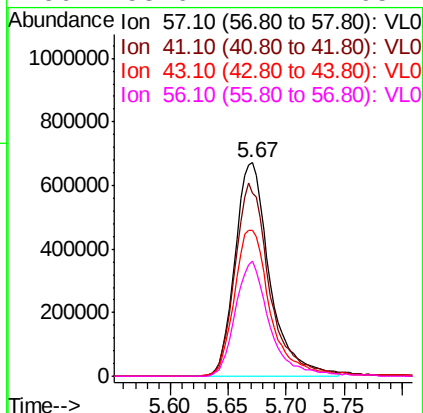
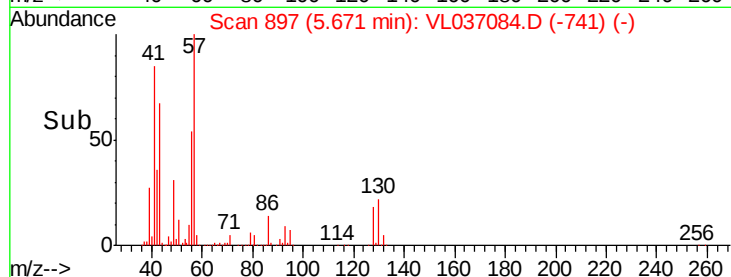
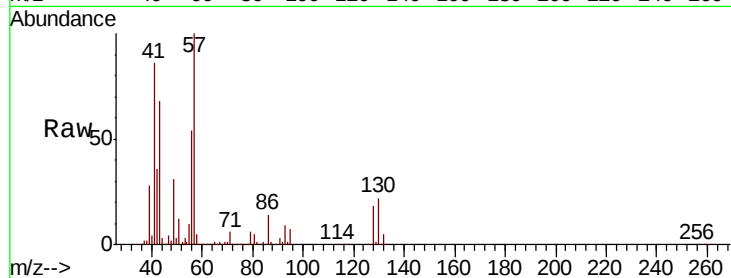
#26
Hexane
Concen: 8.464 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampled :
AA-3

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

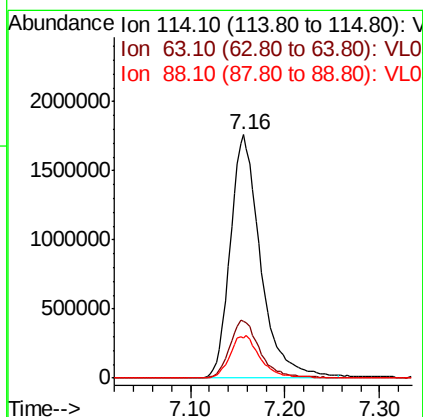
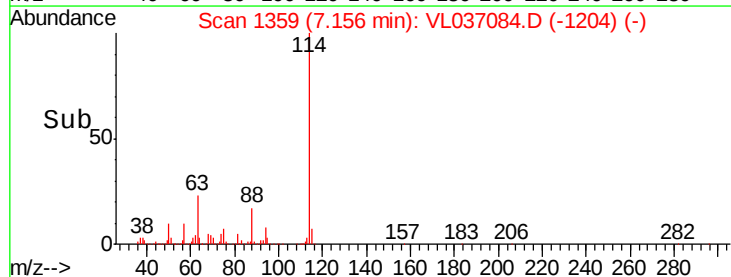
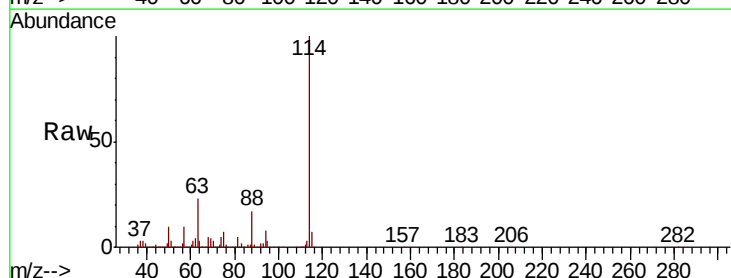
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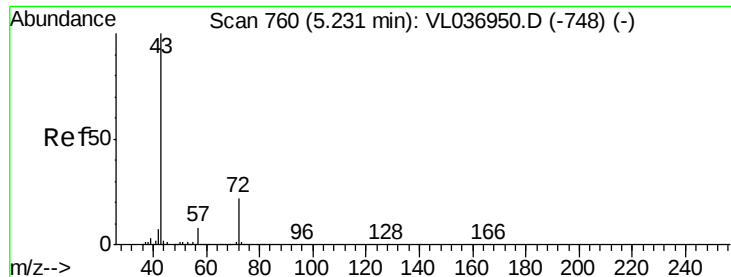
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

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





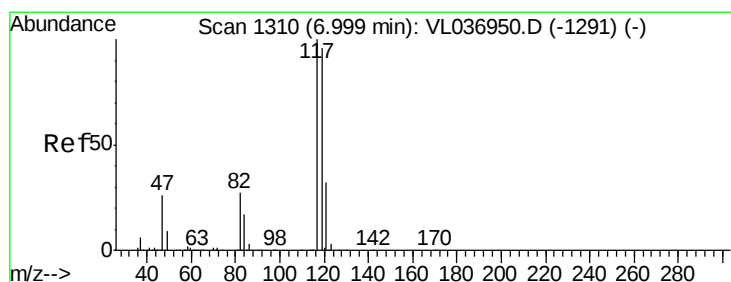
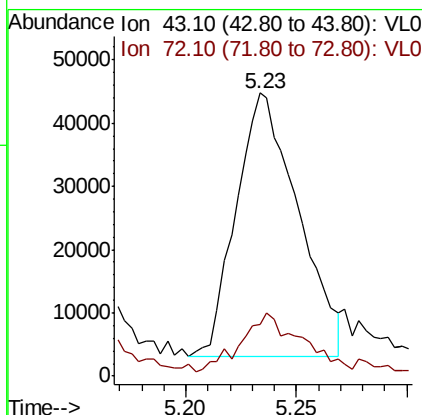
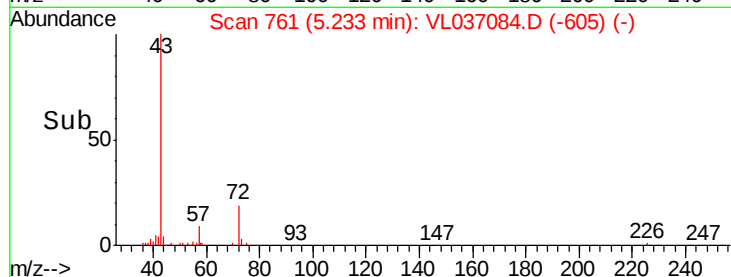
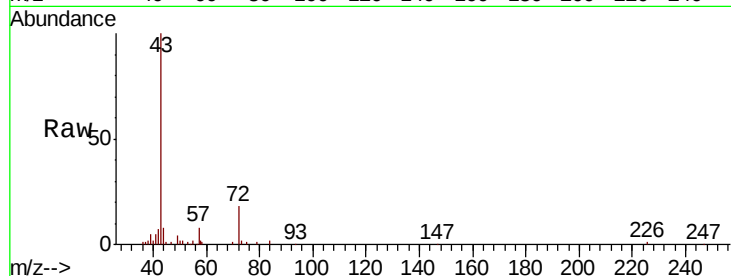
#34
2-Butanone
Concen: 0.567 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampled :
AA-3

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

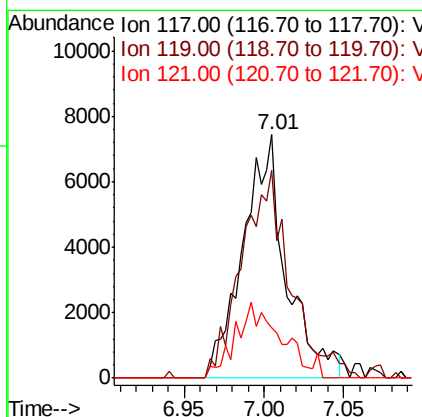
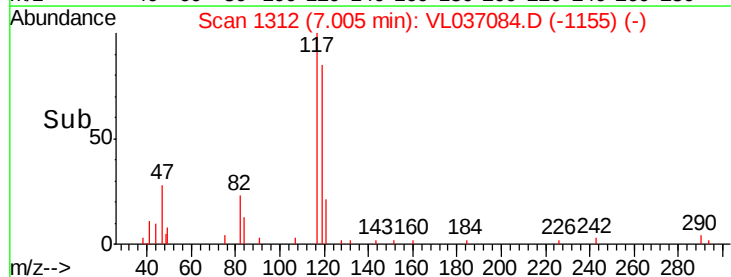
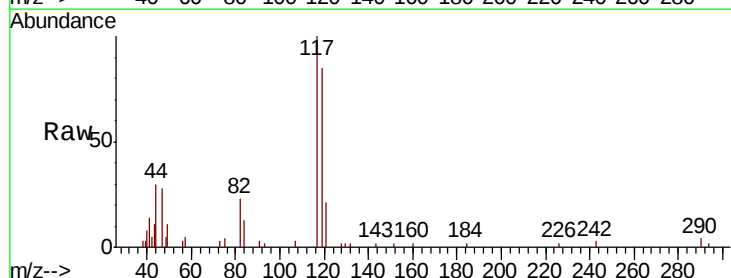
Manual Integrations
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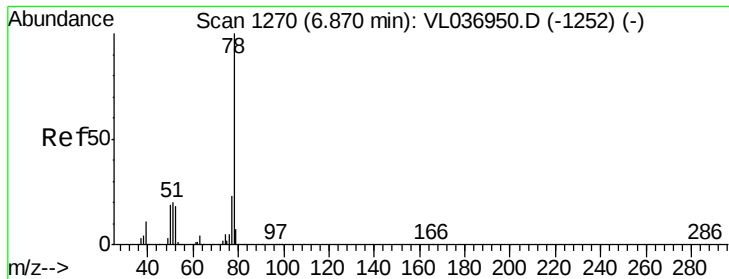
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#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. 0.01 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt Ion	117	Resp	13975
Ion Ratio	100	Lower	Upper
117	100		
119	85.4	76.6	114.8
121	20.9	25.8	38.6#





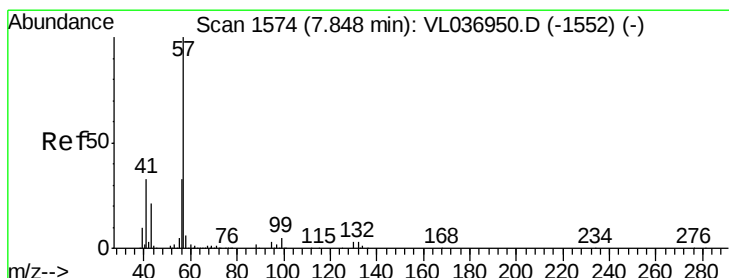
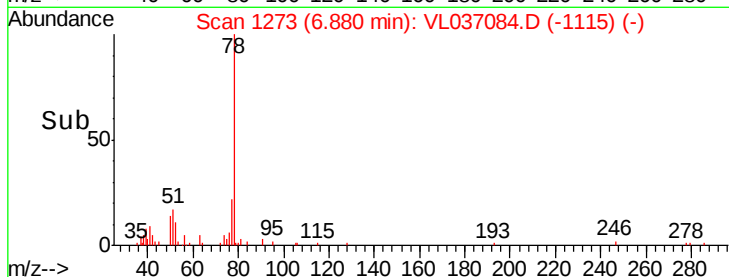
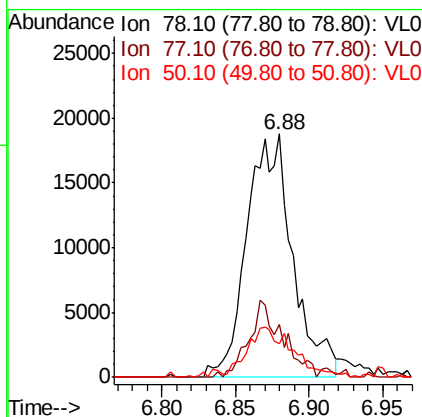
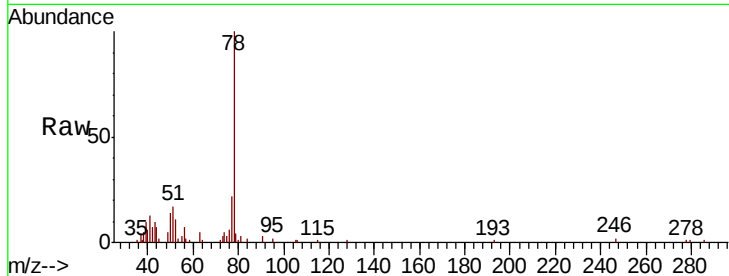
#36
Benzene
Concen: 0.120 ppbv m
RT: 6.88 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampleId :
AA-3

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.6	28.0
50	13.9	15.0	22.4

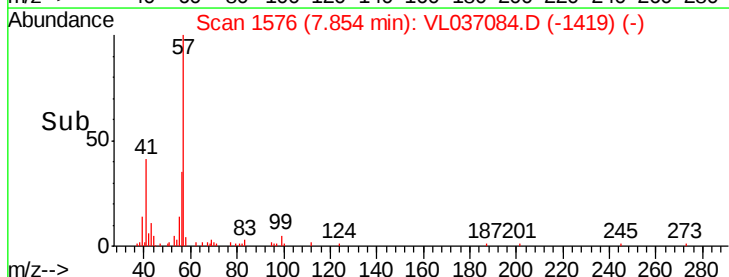
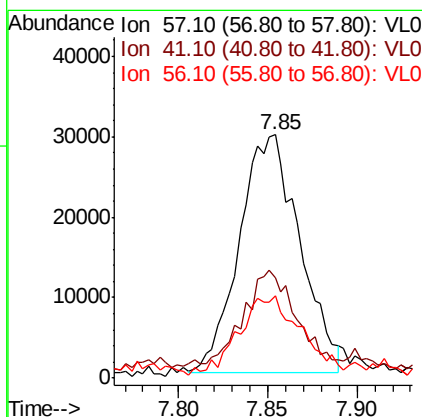
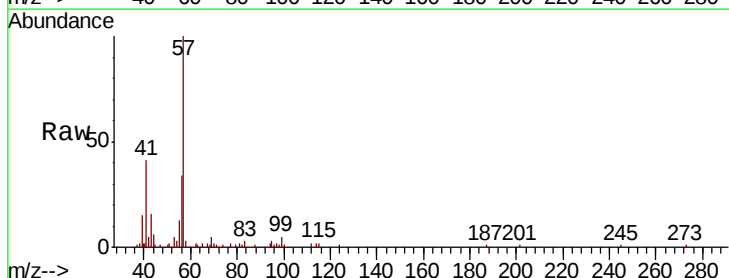
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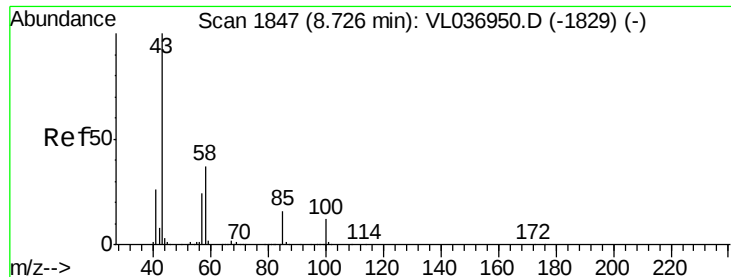
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#44
2,2,4-Trimethylpentane
Concen: 0.120 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.5	27.0	40.4
56	40.4	25.4	38.2





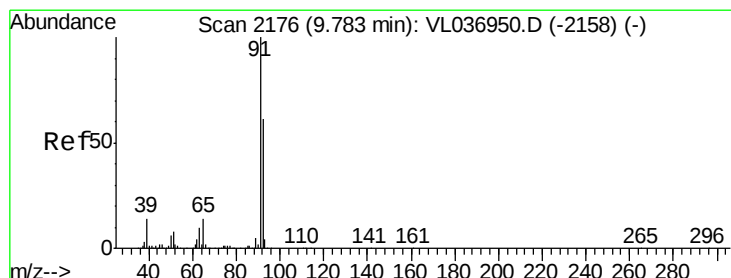
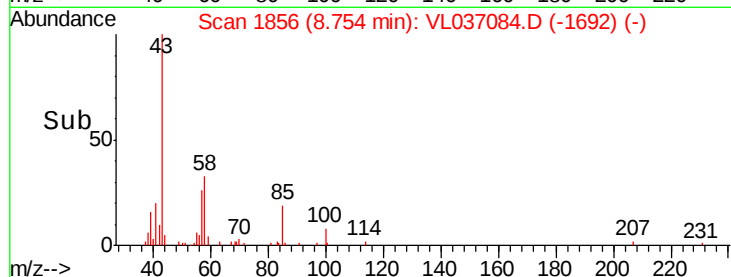
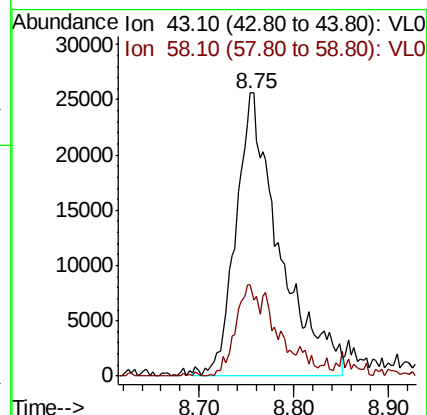
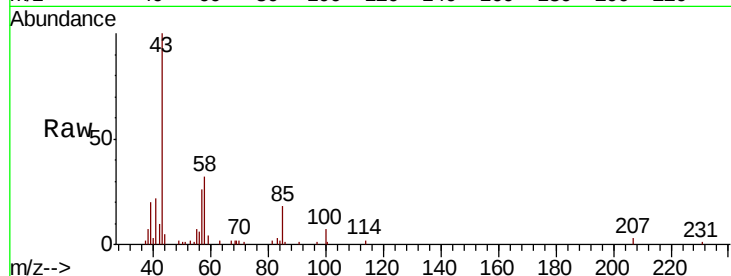
#50
4-Methyl-2-Pentanone
Concen: 0.349 ppbv m
RT: 8.75 min Scan# 1856
Delta R.T. 0.03 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampled :
AA-3

Tot Ion	43	58	Ratio	Lower	Upper
82237	100	31.9		29.4	44.2

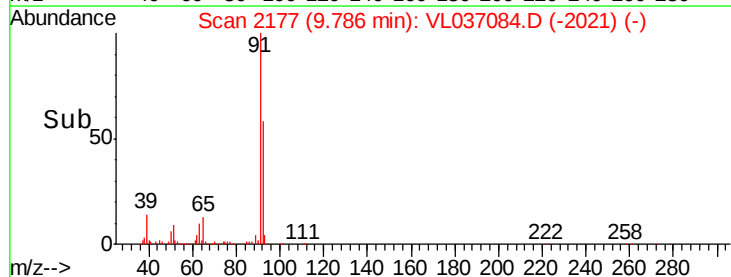
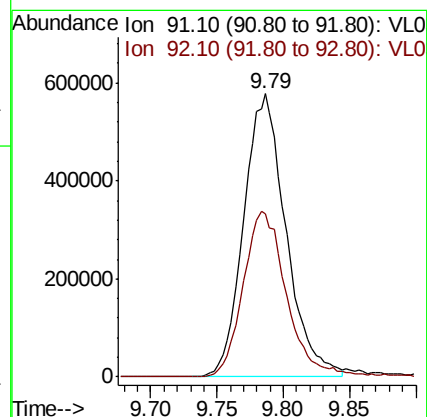
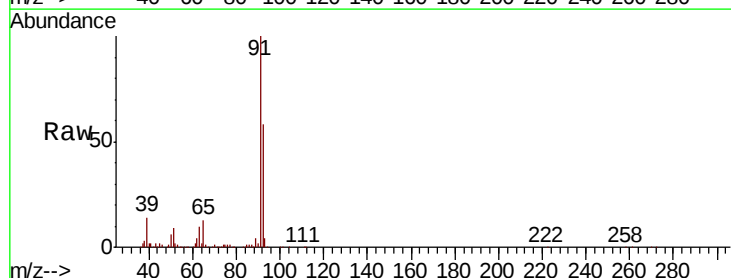
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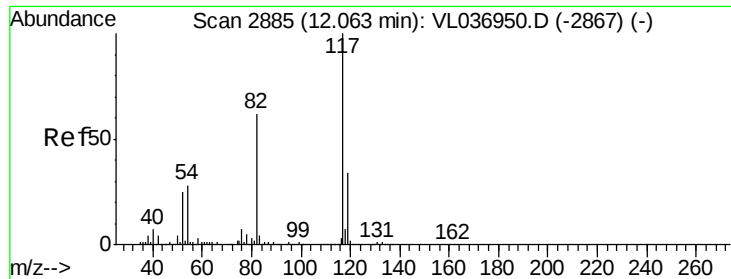
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#53
Toluene
Concen: 3.181 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt Ion	91	92	Ratio	Lower	Upper
1279850	100	60.7		49.5	74.3





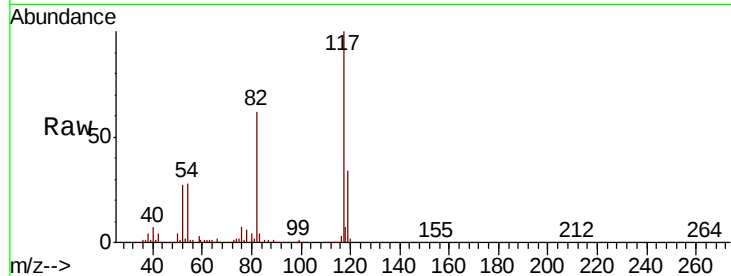
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Instrument :
MSVOA_L
ClientSampled :
AA-3

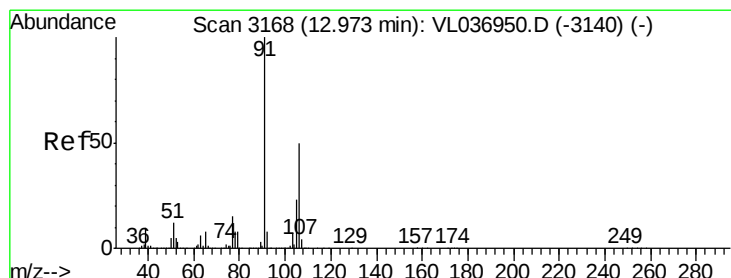
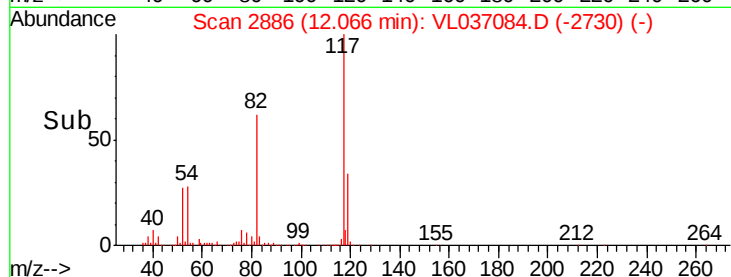
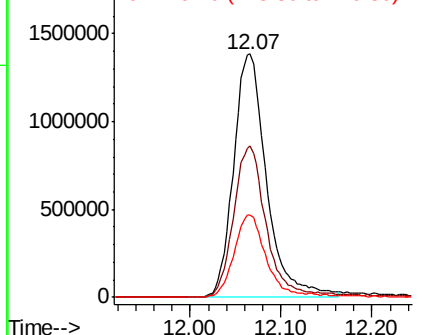
Tot Ion	Ratio	Lower	Upper
117	100		
82	64.7	52.6	79.0
119	34.7	46.6	70.0#

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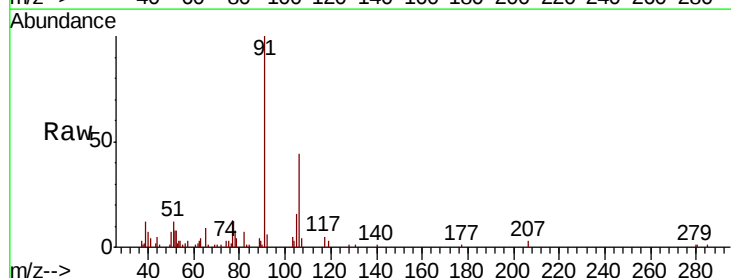


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

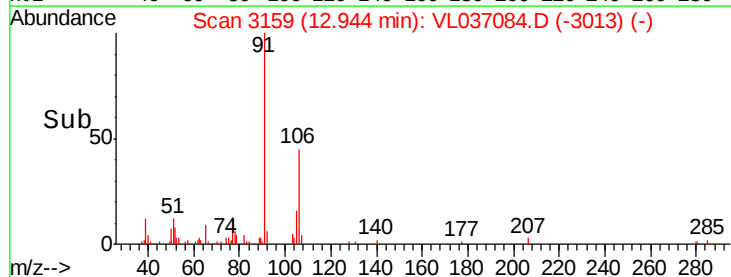
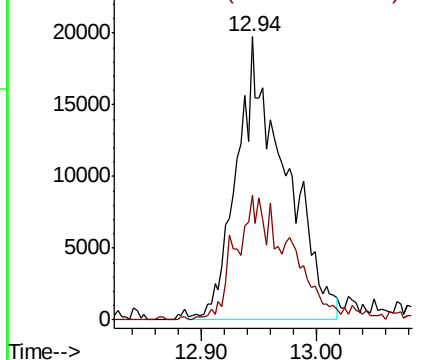


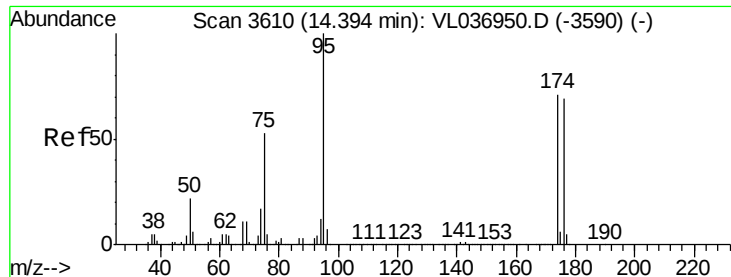
#59
m/p-Xylene
Concen: 0.141 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL037084.D
Acq: 2 Jun 2021 00:16

Tgt 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





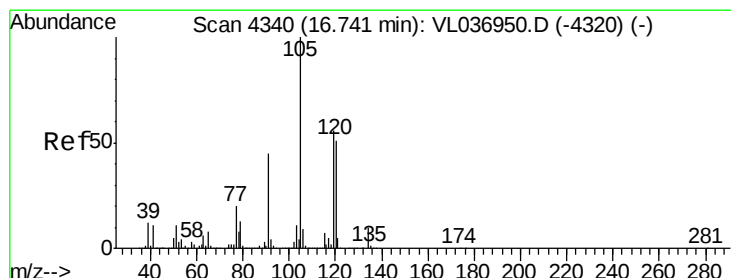
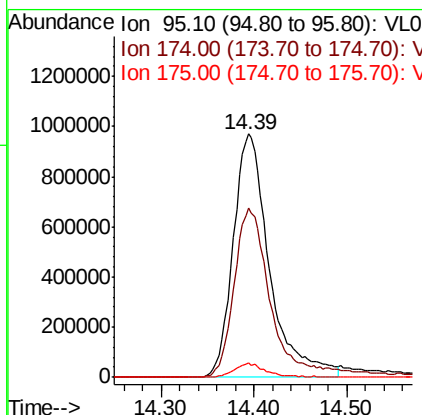
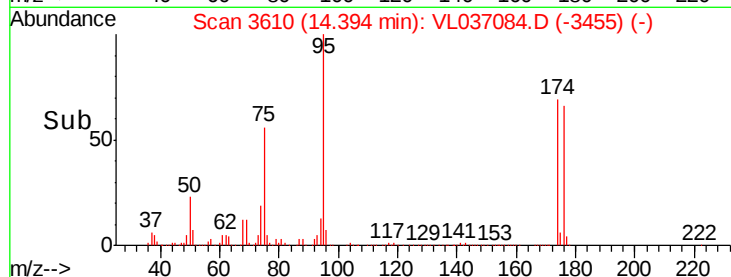
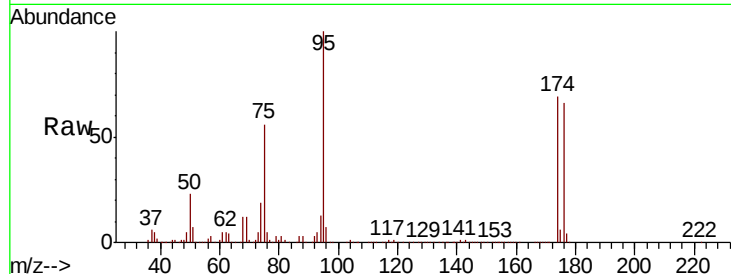
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.052 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037084.D
 Acq: 2 Jun 2021 00:16

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-3

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

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#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#

