

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037138.D
 Acq On : 8 Jun 2021 18:59
 Operator : SY/AP
 Sample : M2614-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-6C

Manual Integrations
 APPROVED

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 6/9/2021 4:23:49 PM

Quant Time: Jun 09 12:38:11 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	5.66	49	1401638	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	4039330	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	3641624	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2743677	10.03	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	73856	0.311	ppbv	89
3) Chlorodifluoromethane	2.98	51	572384	2.229	ppbv #	92
4) Chloromethane	3.13	50	49370	0.565	ppbv	99
9) Propene	3.02	41	218692	2.378	ppbv #	83
10) Heptane	8.12	43	34621m	0.151	ppbv	
11) Trichlorofluoromethane	3.95	101	54391	0.247	ppbv	92
13) Ethanol	3.62	45	14276879	1163.720	ppbv	99
15) Acetone	3.84	43	1391908m	9.695	ppbv	
17) tert-Butyl alcohol	4.31	59	45506m	0.346	ppbv	
19) Isopropyl Alcohol	3.98	45	2323998	30.114	ppbv #	34
20) Methylene Chloride	4.34	84	263986	3.430	ppbv	96
25) Ethyl Acetate	5.67	43	628015	1.820	ppbv #	96
26) Hexane	5.68	57	207746m	1.179	ppbv	
29) Chloroform	5.75	83	43136	0.173	ppbv	95
30) Cyclohexane	7.13	84	21137m	0.141	ppbv	
34) 2-Butanone	5.24	43	135728	0.923	ppbv	95
35) Carbon Tetrachloride	7.02	117	14633m	0.055	ppbv	
36) Benzene	6.89	78	1271227	3.654	ppbv	100
44) 2,2,4-Trimethylpentane	7.87	57	80906	0.136	ppbv #	78
53) Toluene	9.80	91	573059	1.384	ppbv	98
58) Ethyl Benzene	12.71	91	56168	0.109	ppbv	98
59) m/p-Xylene	12.97	91	132163m	0.311	ppbv	
60) o-Xylene	13.68	91	47933	0.118	ppbv	89
61) Styrene	13.52	104	32525	0.142	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.75	105	50086m	0.107	ppbv	
79) Naphthalene	22.20	128	72540m	0.198	ppbv	

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

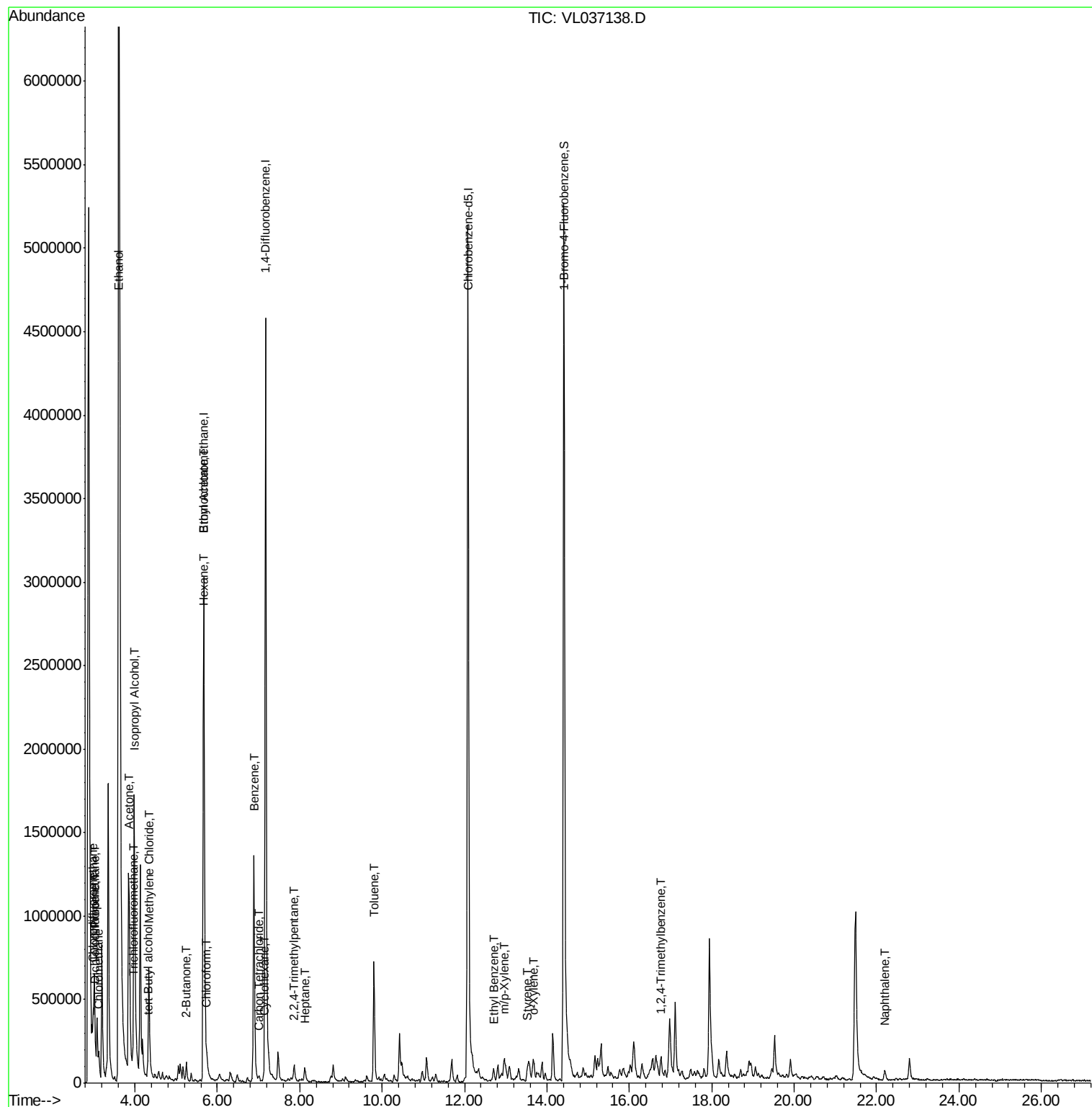
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060821\
Data File : VL037138.D
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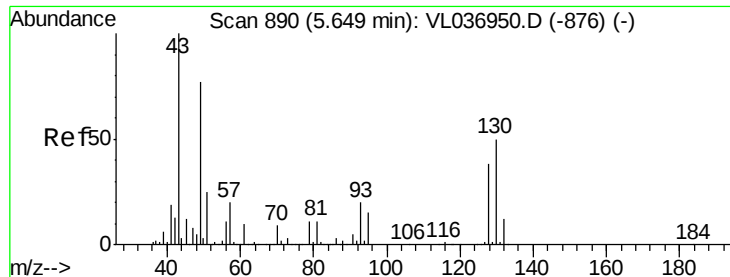
Instrument :
MSVOA_L
ClientSampleId :
SR-6C

Quant Time: Jun 09 12:38:11 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

Manual Integrations
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.02 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

ClientSampleId :

SR-6C

Tot Ion: 49 Resp: 1401638

Ion Ratio Lower Upper

49 100

128 55.9 26.9 80.7

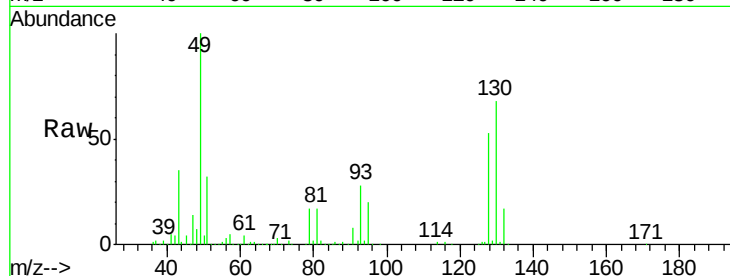
130 71.9 33.8 101.4

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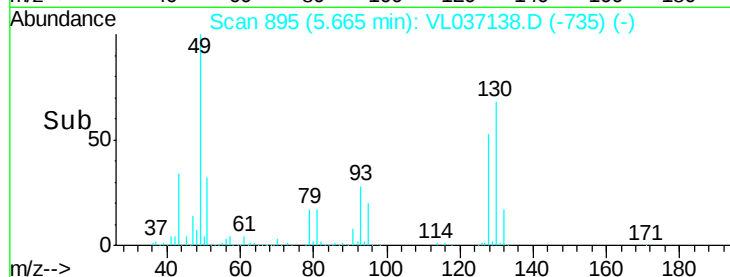
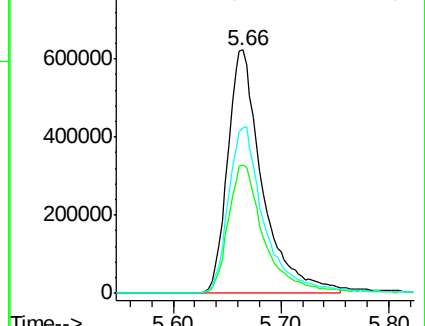
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.311 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL037138.D

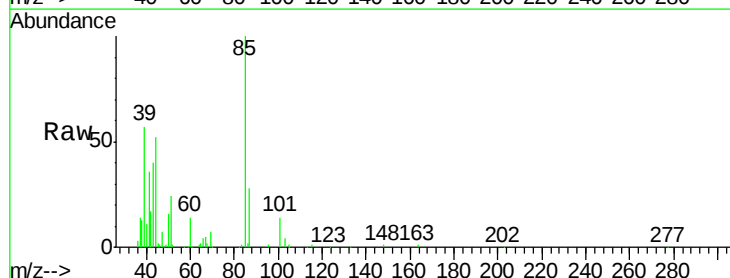
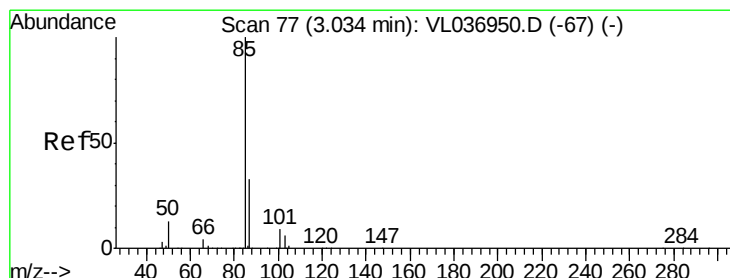
Acq: 8 Jun 2021 18:59

Tgt Ion: 85 Resp: 73856

Ion Ratio Lower Upper

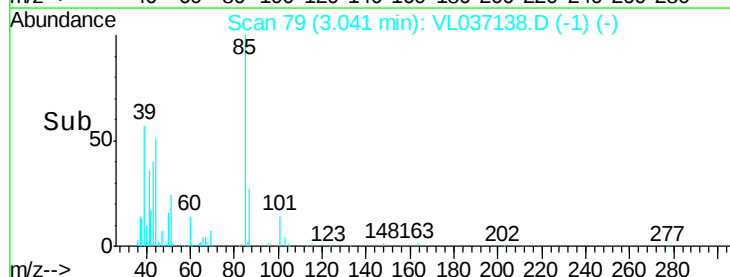
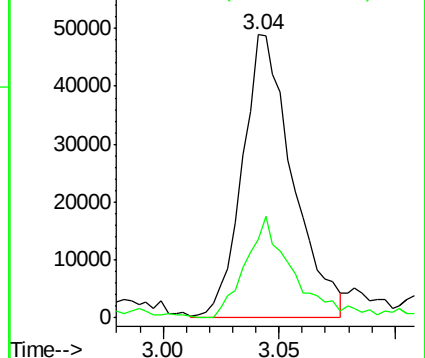
85 100

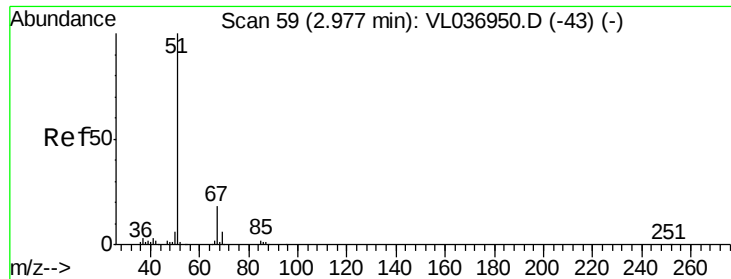
87 26.7 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.229 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

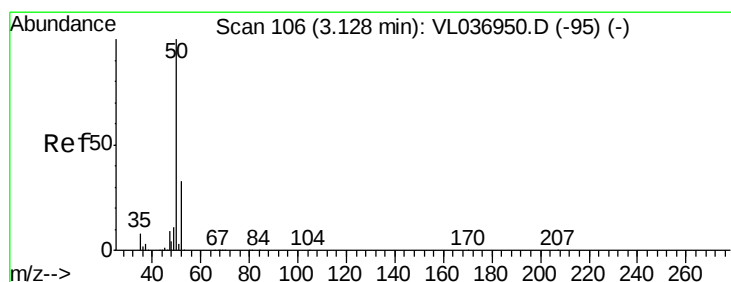
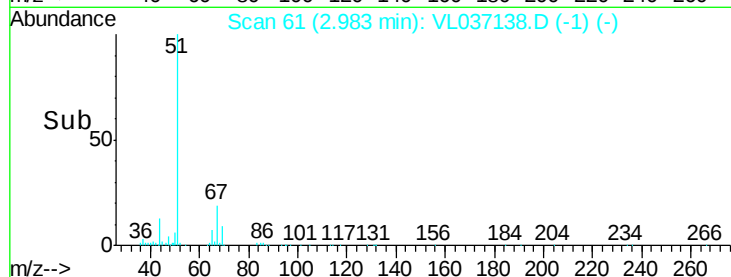
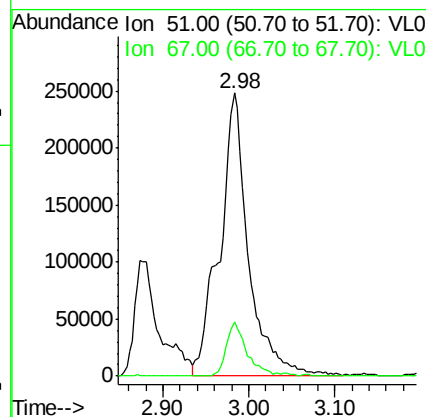
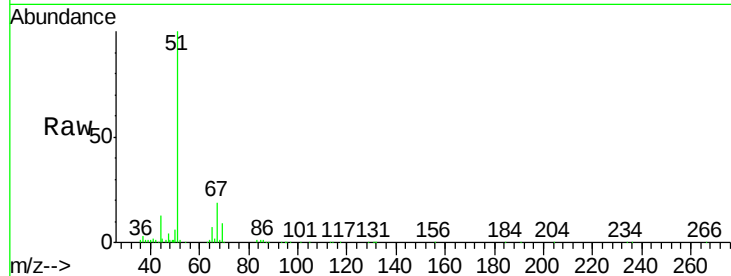
ClientSampled :

SR-6C

Tot Ion	Ratio	Lower	Upper
51	100		
67	14.5	14.6	21.8#

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#4

Chloromethane

Concen: 0.565 ppbv

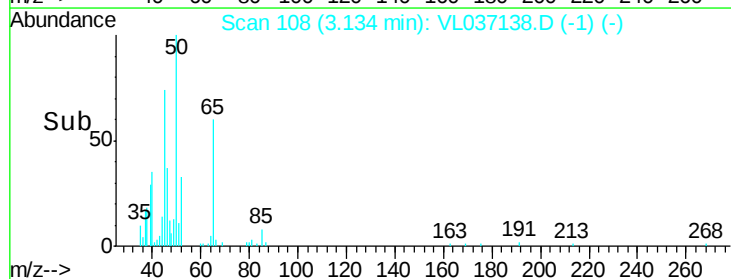
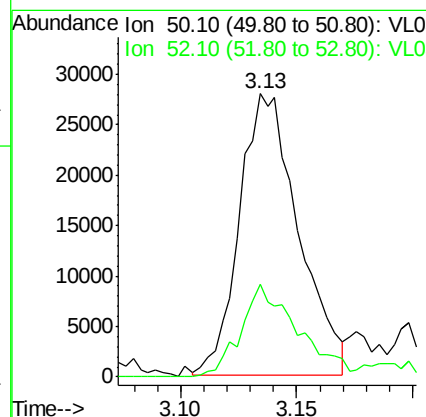
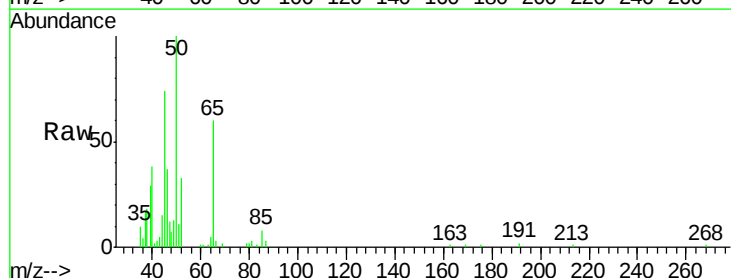
RT: 3.13 min Scan# 108

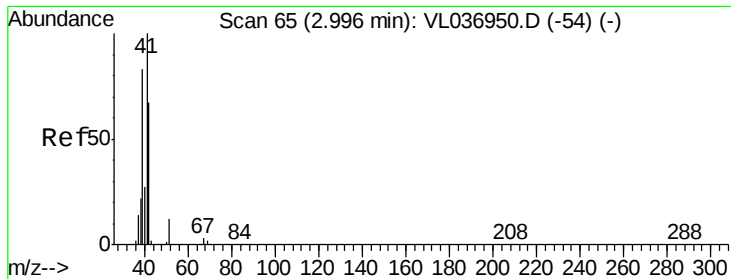
Delta R.T. 0.01 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.1	39.1





#9

Propene

Concen: 2.378 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

ClientSampled :

SR-6C

Tot Ion: 41 Resp: 218692

Ion Ratio Lower Upper

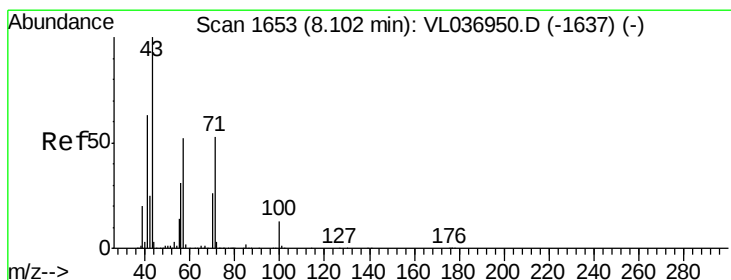
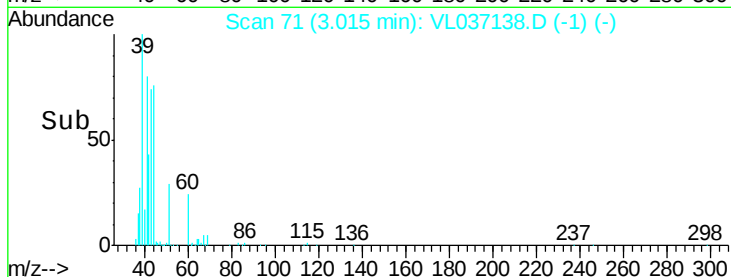
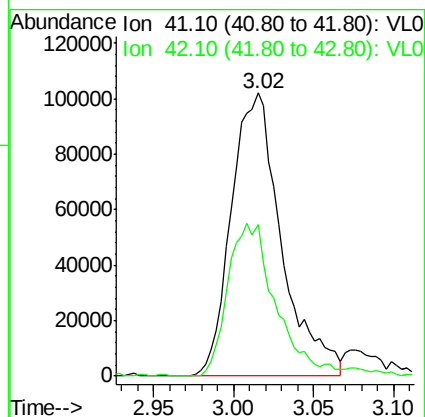
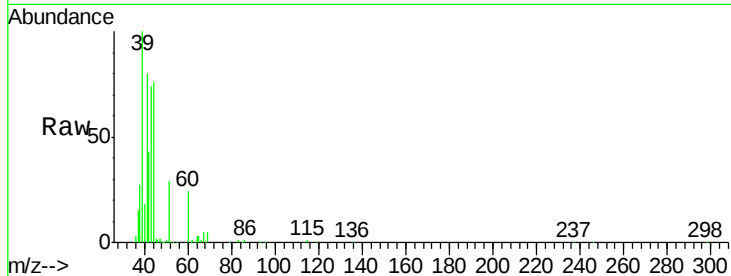
41 100

42 53.8 53.9 80.9#

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#10

Heptane

Concen: 0.151 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. 0.02 min

Lab File: VL037138.D

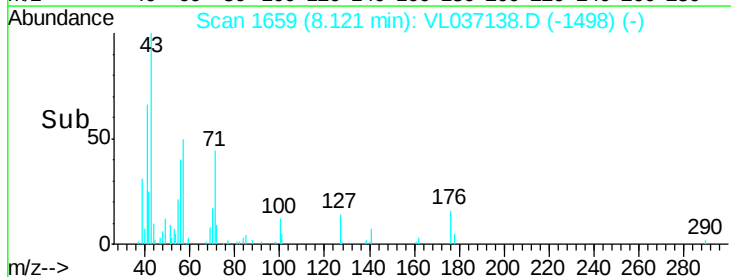
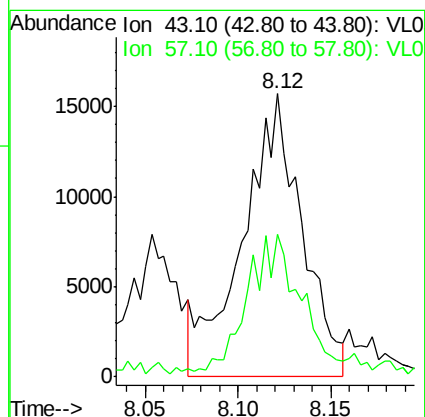
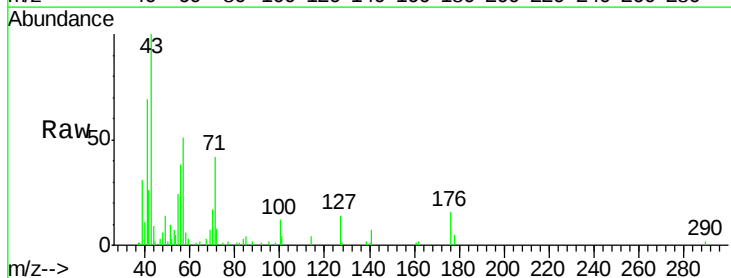
Acq: 8 Jun 2021 18:59

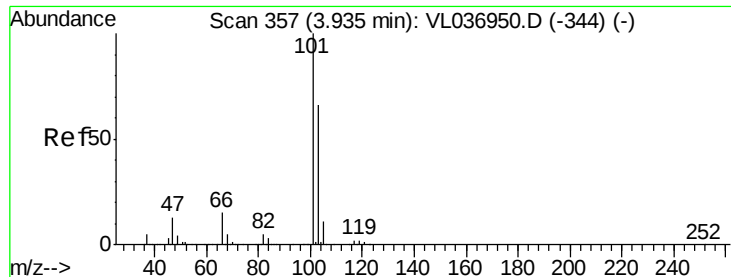
Tgt Ion: 43 Resp: 34621

Ion Ratio Lower Upper

43 100

57 51.8 41.0 61.6





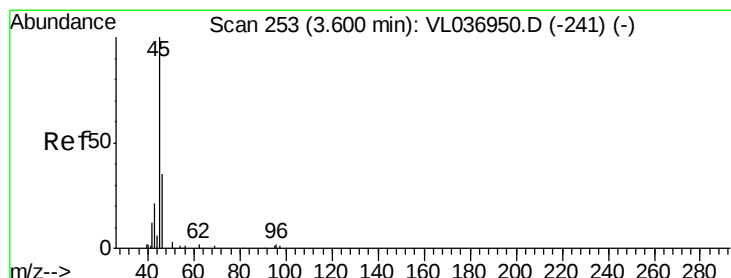
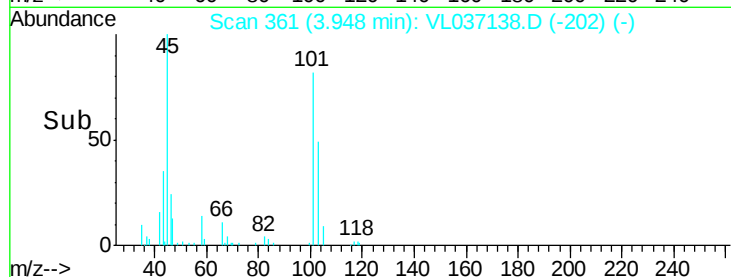
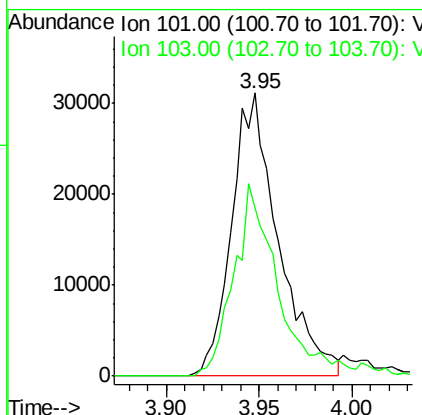
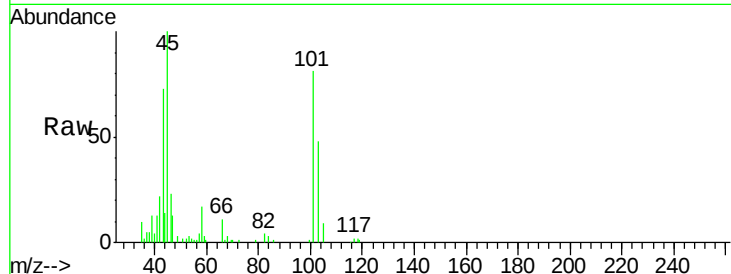
#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampleId :
SR-6C

Tot Ion:101 Resp: 54391
Ion Ratio Lower Upper
101 100
103 59.6 52.6 79.0

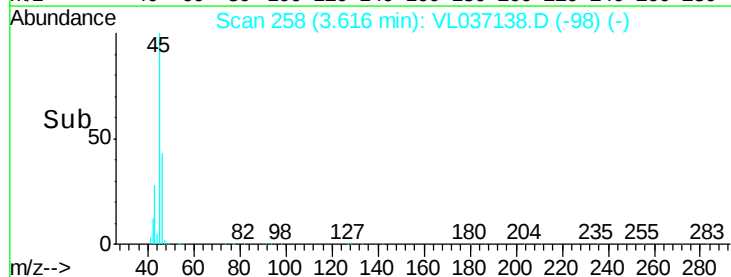
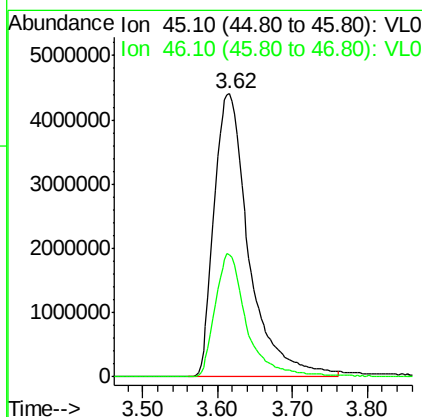
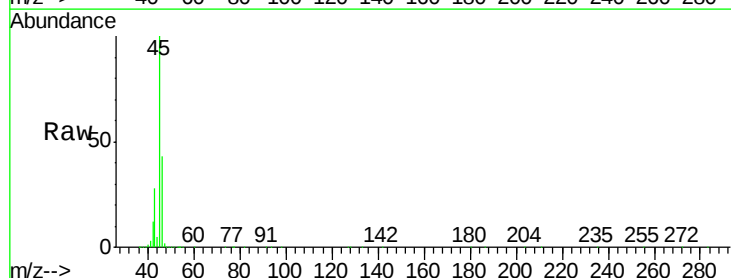
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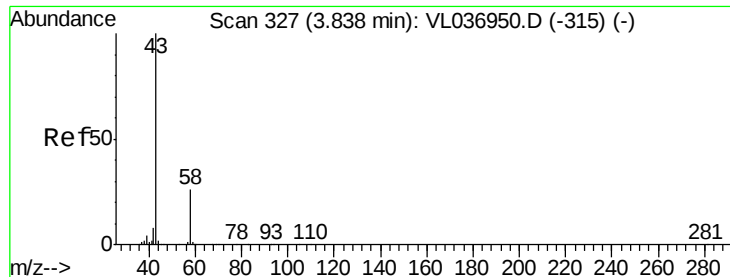
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#13
Ethanol
Concen: 1163.720 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 45 Resp:14276879
Ion Ratio Lower Upper
45 100
46 40.3 16.3 65.3





#15

Acetone

Concen: 9.695 ppbv m

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

ClientSampleId :

SR-6C

Tot Ion: 43 Resp: 1391908

Ion Ratio Lower Upper

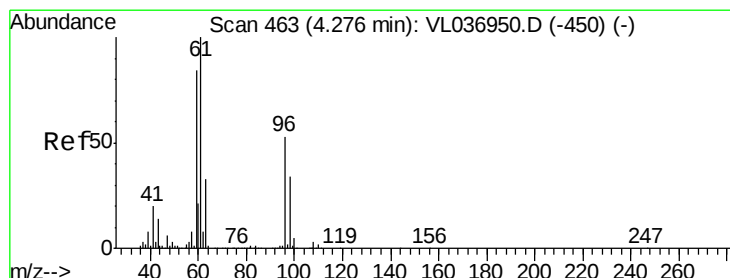
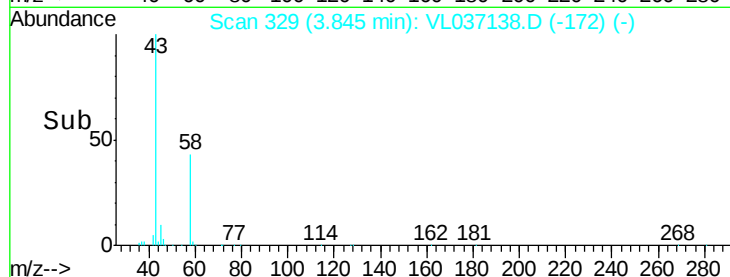
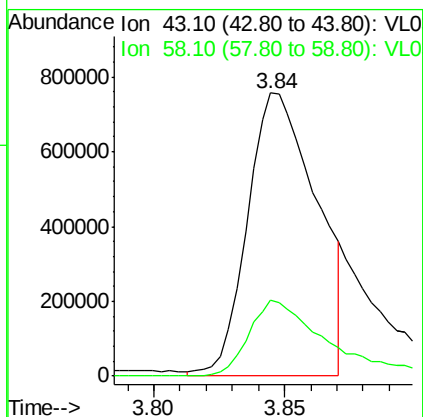
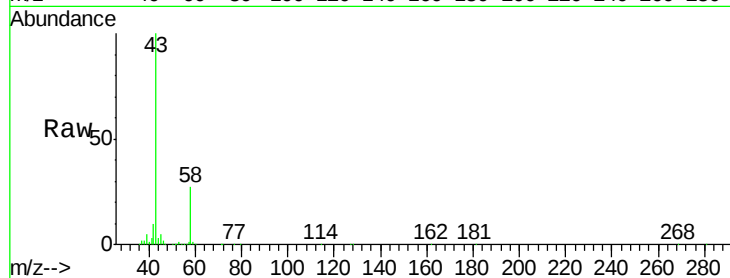
43 100

58 31.7 24.0 36.0

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#17

tert-Butyl alcohol

Concen: 0.346 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.03 min

Lab File: VL037138.D

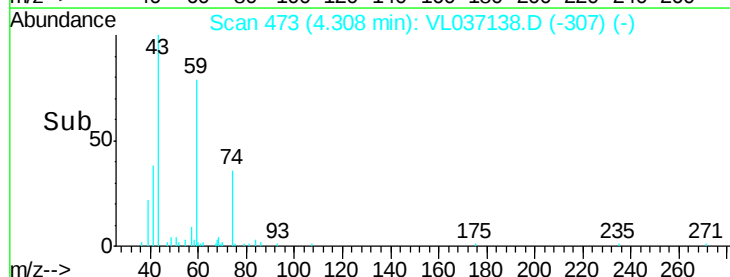
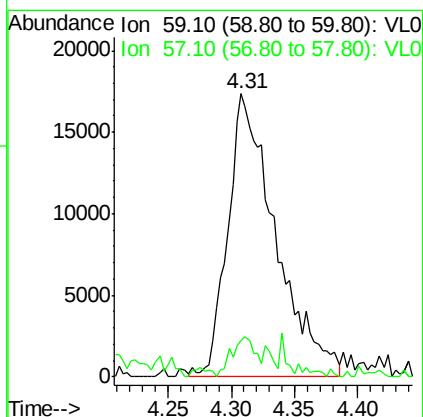
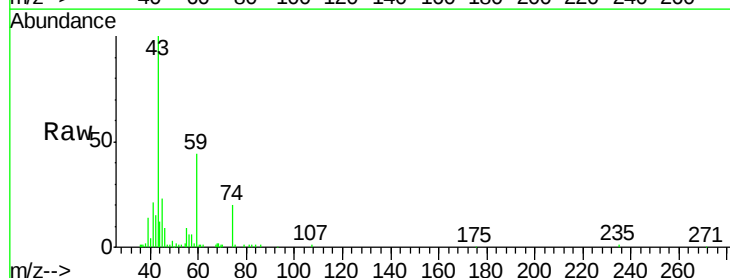
Acq: 8 Jun 2021 18:59

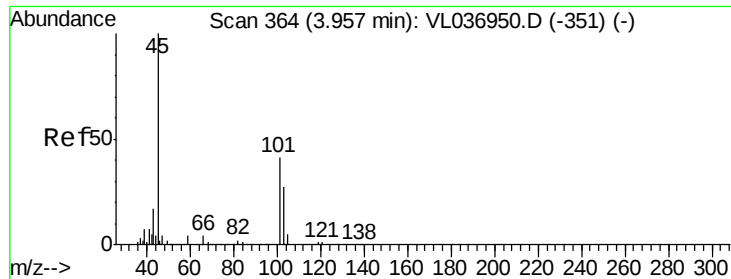
Tgt Ion: 59 Resp: 45506

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





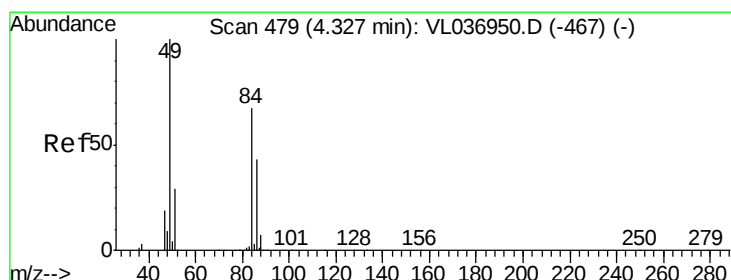
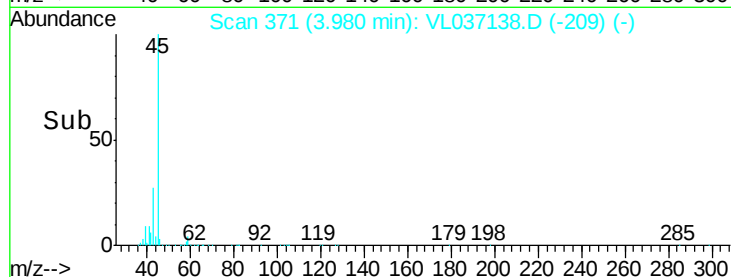
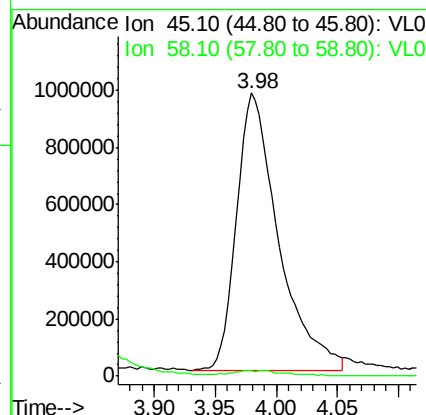
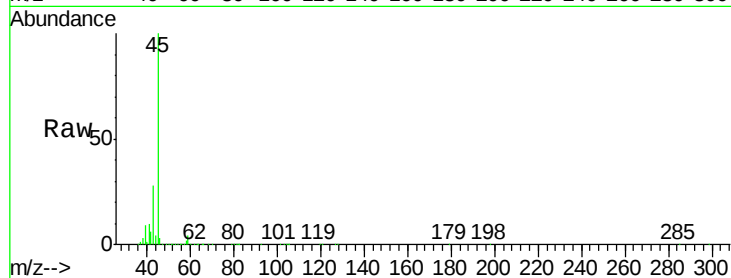
#19
Isopropyl Alcohol
Concen: 30.114 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampleId :
SR-6C

Tot Ion: 45 Resp: 2323998
Ion Ratio Lower Upper
45 100
58 2.7 37.2 55.8#

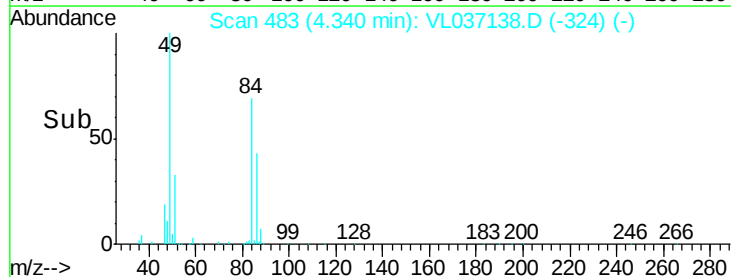
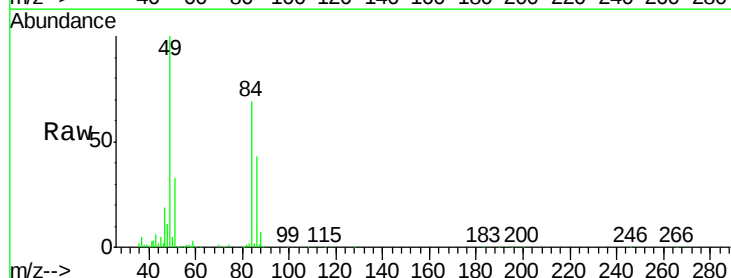
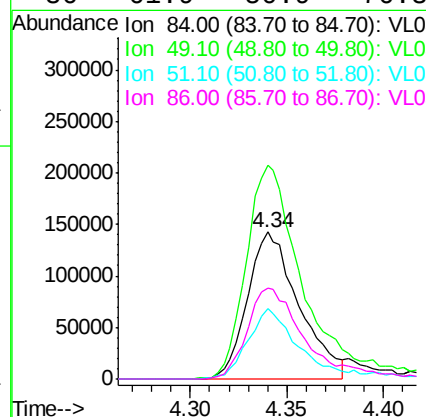
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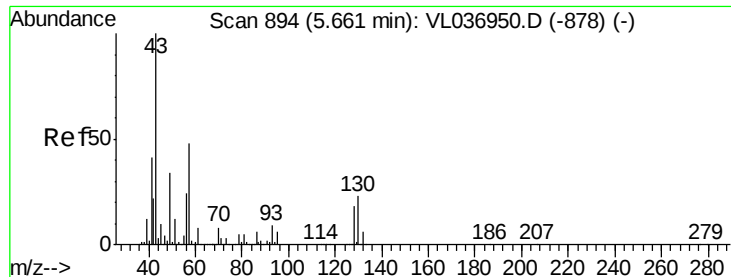
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#20
Methylene Chloride
Concen: 3.430 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 84 Resp: 263986
Ion Ratio Lower Upper
84 100
49 145.2 119.8 179.6
51 47.5 35.1 52.7
86 61.9 50.9 76.3





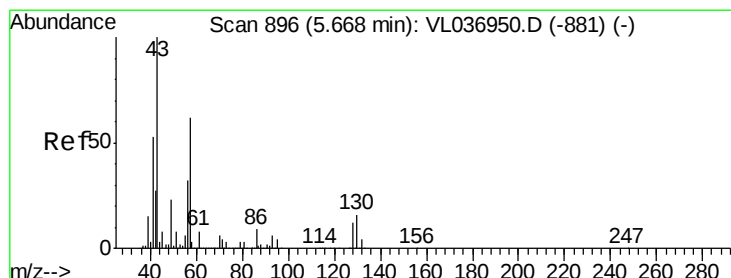
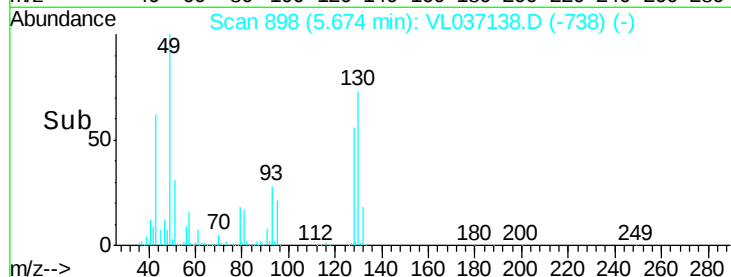
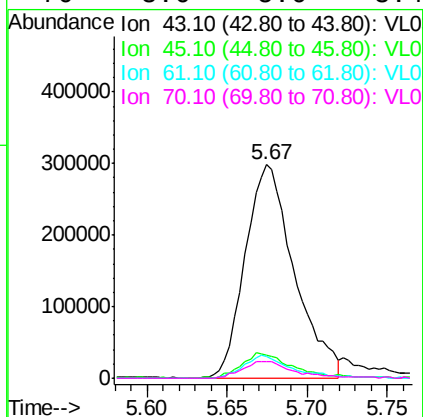
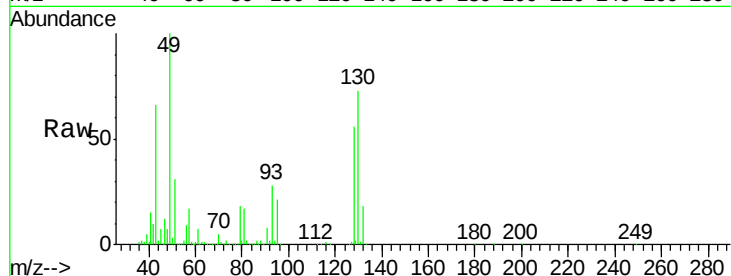
#25
Ethyl Acetate
Concen: 1.820 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampleId :
SR-6C

Tot Ion	Ratio	Lower	Upper
43	100		
45	12.1	7.8	11.8#
61	10.6	7.8	11.8
70	8.6	5.6	8.4#

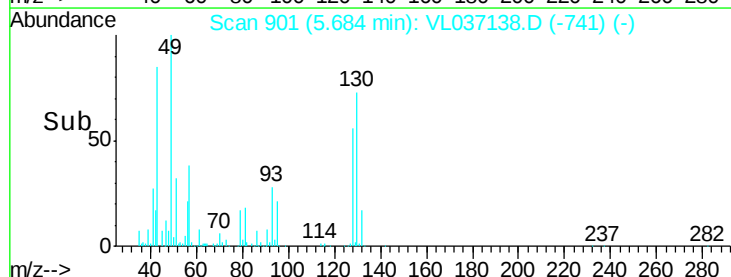
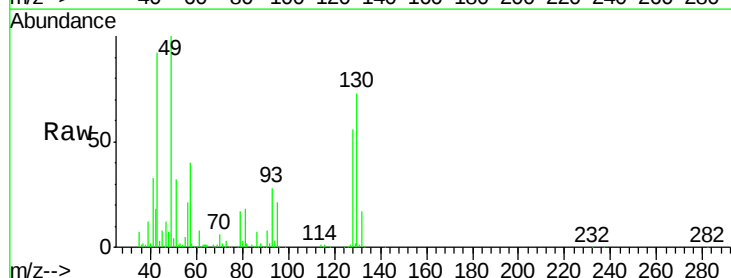
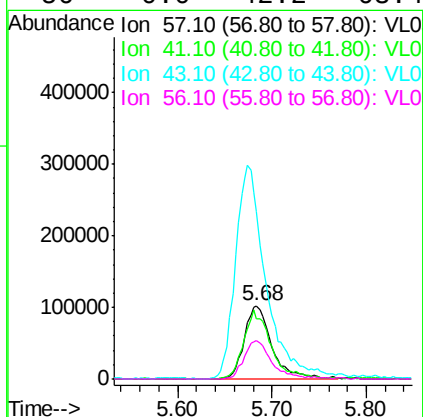
Manual Integrations
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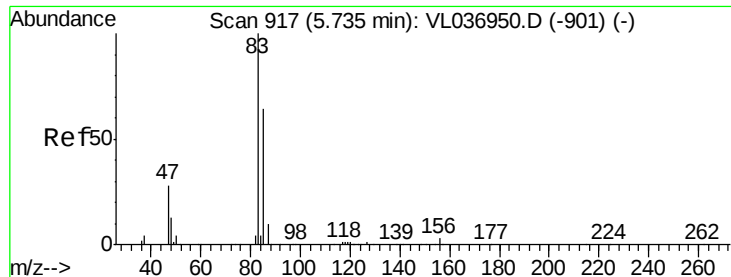
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#26
Hexane
Concen: 1.179 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.5	105.7#
43	0.0	165.8	248.8#
56	0.0	42.2	63.4#





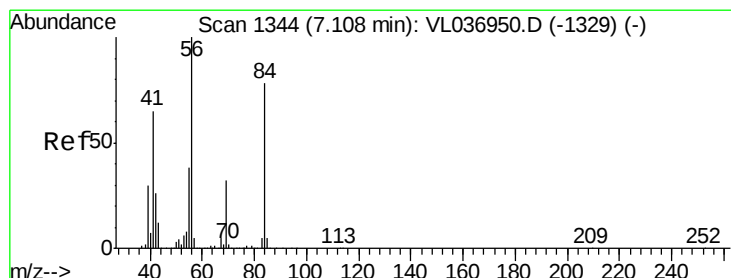
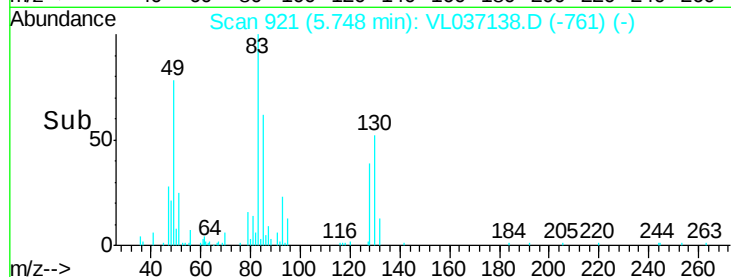
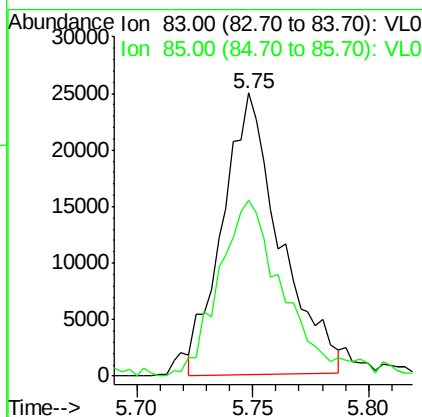
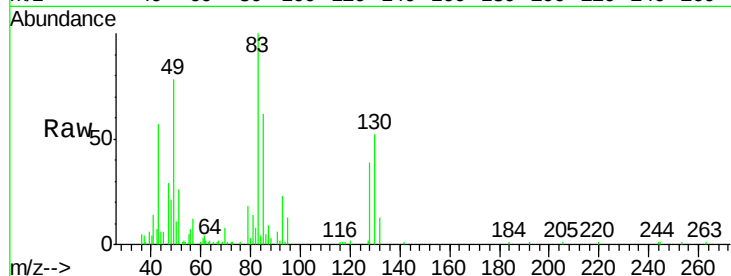
#29
Chloroform
Concen: 0.173 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampled :
SR-6C

Tot Ion	83	Resp	43136
Ion Ratio	100	Lower	Upper
85	60.0	51.1	76.7

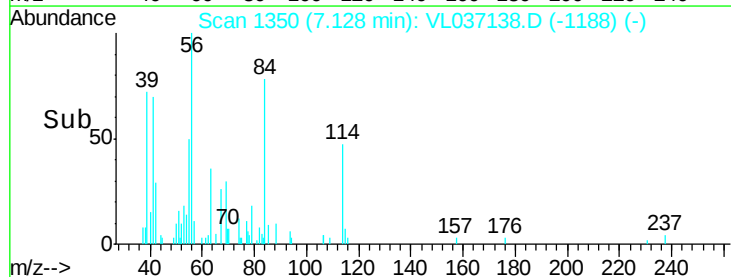
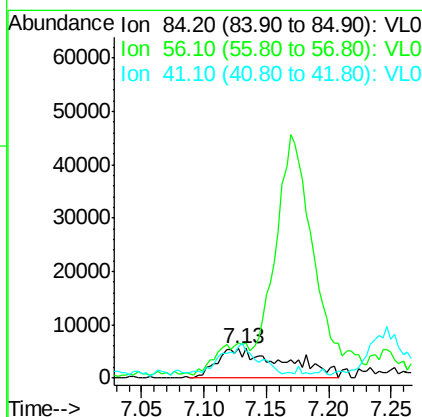
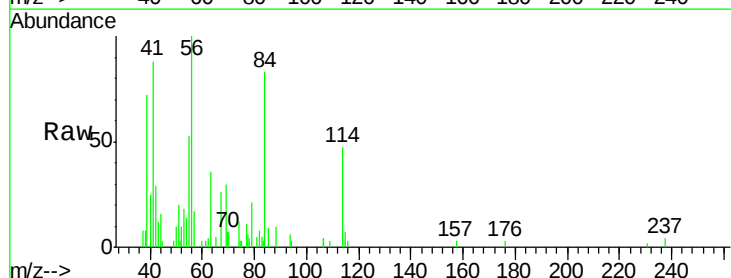
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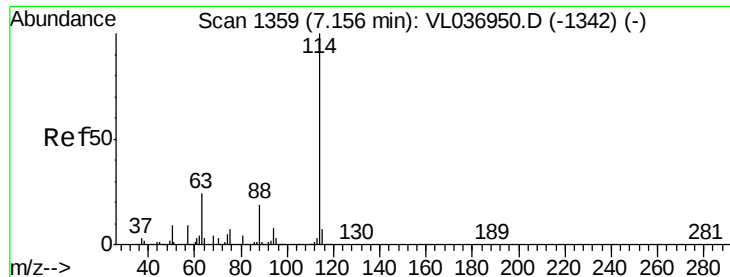
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#30
Cyclohexane
Concen: 0.141 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion	84	Resp	21137
Ion Ratio	100	Lower	Upper
56	0.0	107.9	161.9#
41	0.0	65.5	98.3#





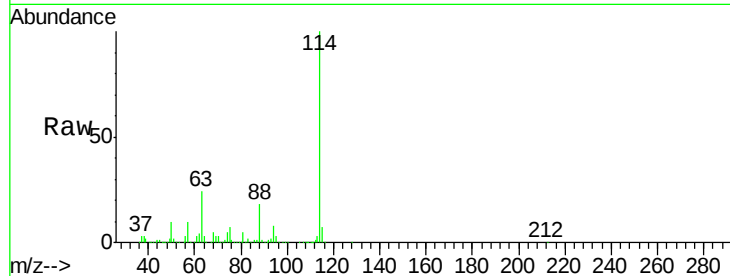
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-6C

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	17.6	14.6	21.8

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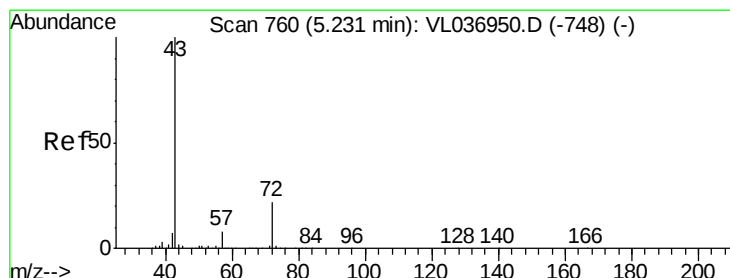
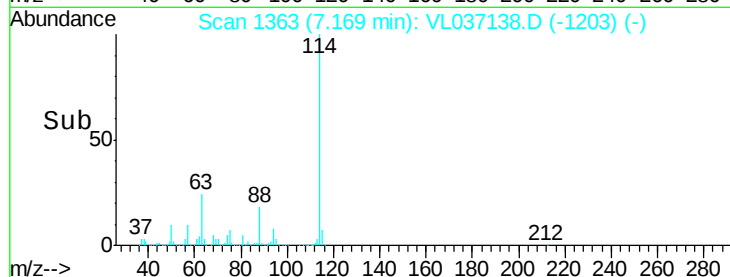
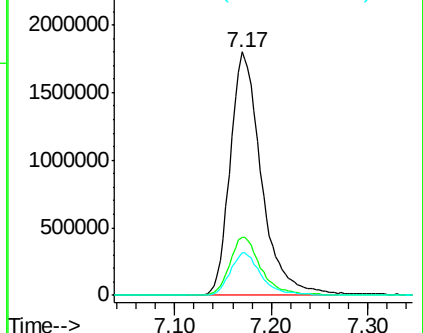
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Abundance Ion 114.10 (113.80 to 114.80): VL036950.D (-1342) (-)

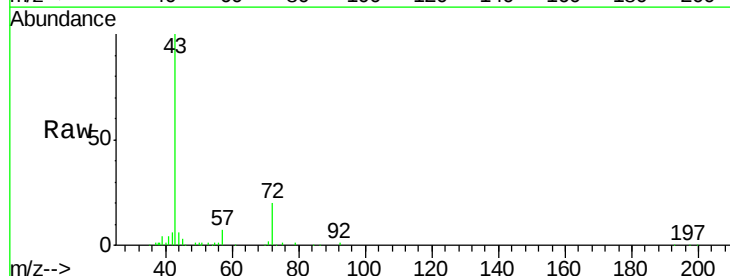
Ion 63.10 (62.80 to 63.80): VL036950.D (-1342) (-)

Ion 88.10 (87.80 to 88.80): VL036950.D (-1342) (-)



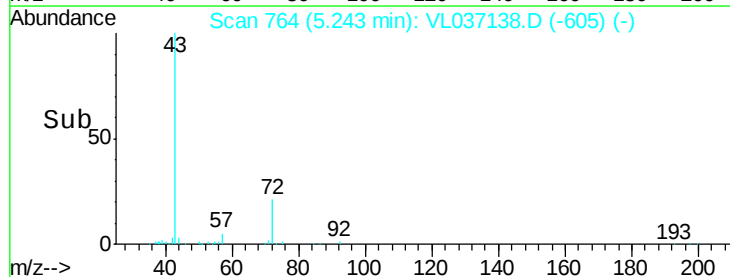
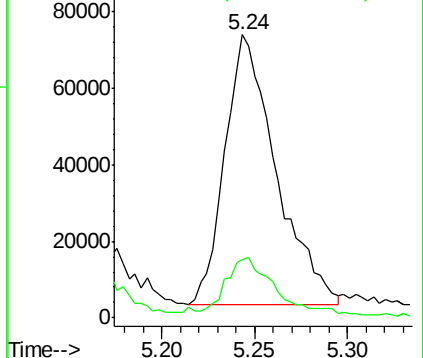
#34
 2-Butanone
 Concen: 0.923 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

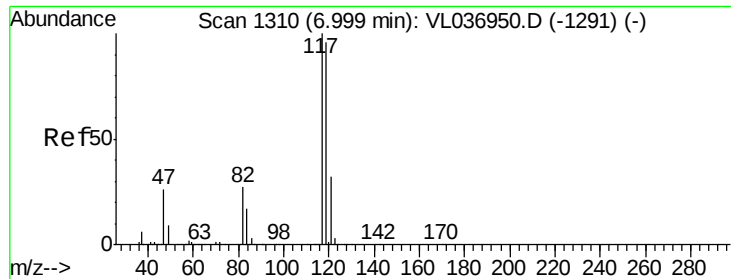
Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.9	19.0	28.4



Abundance Ion 43.10 (42.80 to 43.80): VL036950.D (-748) (-)

Ion 72.10 (71.80 to 72.80): VL036950.D (-748) (-)





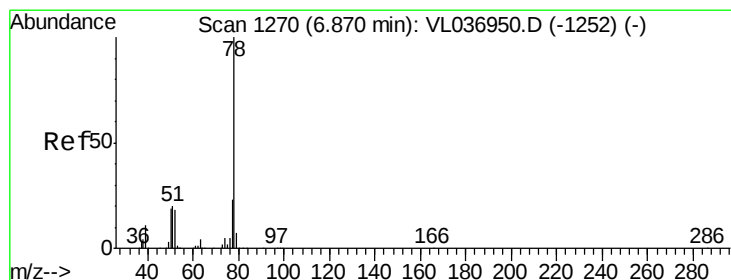
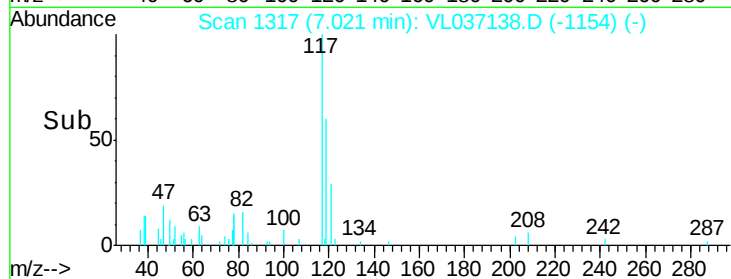
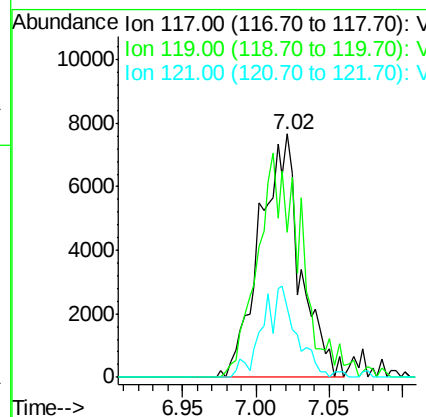
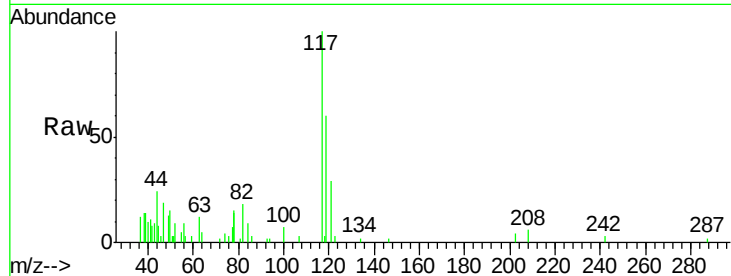
#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampled :
SR-6C

Tot Ion	Ratio	Lower	Upper
117	100		
119	59.8	76.6	114.8#
121	28.5	25.8	38.6

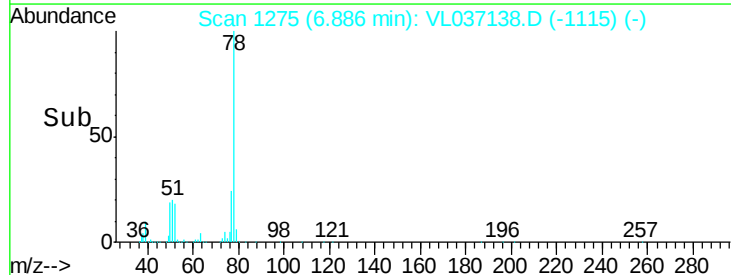
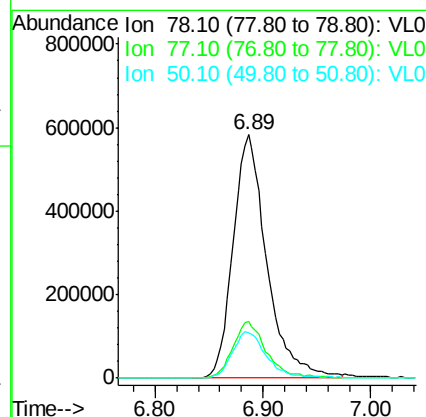
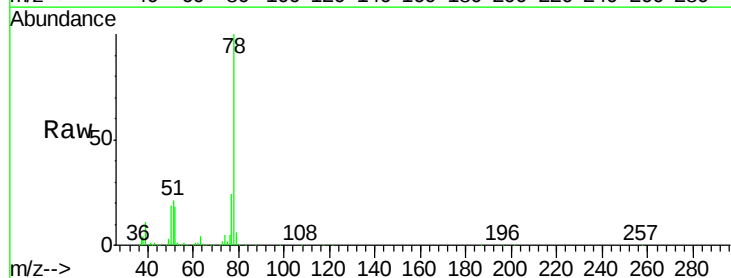
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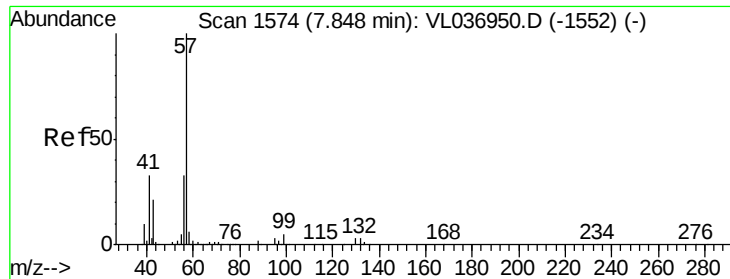
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#36
Benzene
Concen: 3.654 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0
50	18.6	15.0	22.4





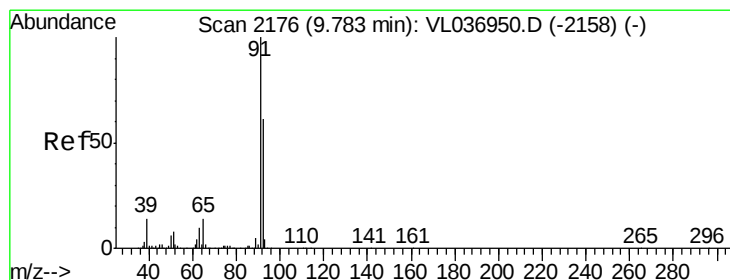
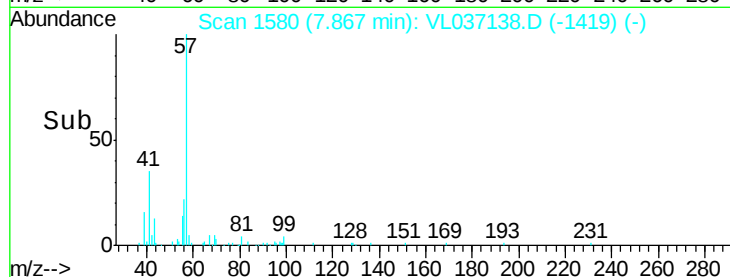
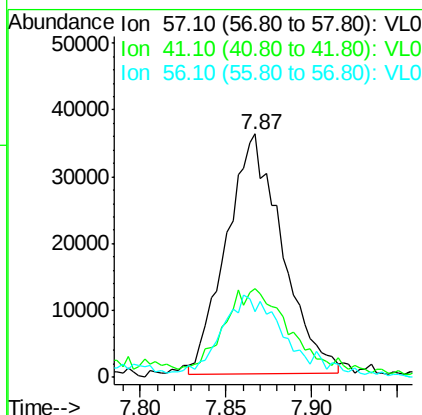
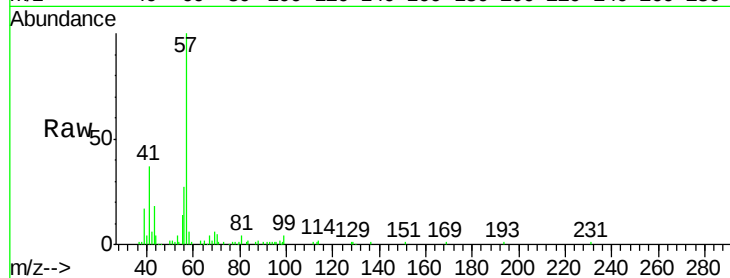
#44
 2,2,4-Trimethylpentane
 Concen: 0.136 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-6C

Tot Ion	Ratio	Lower	Upper
57	100		
41	49.0	27.0	40.4#
56	41.3	25.4	38.2#

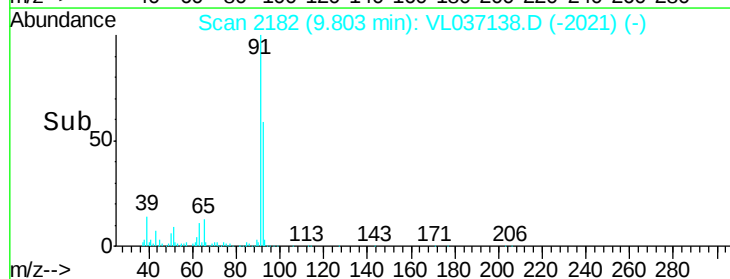
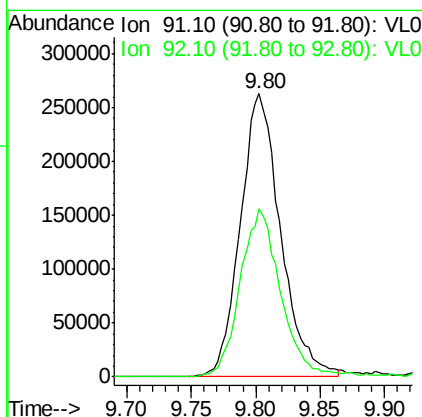
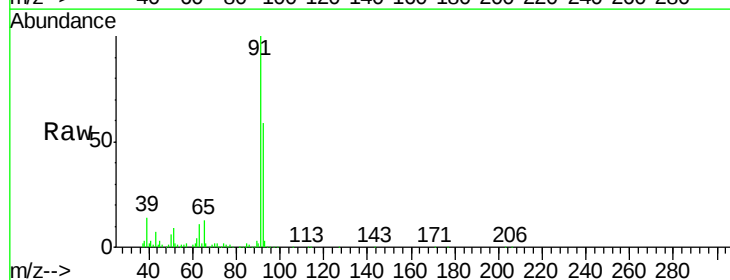
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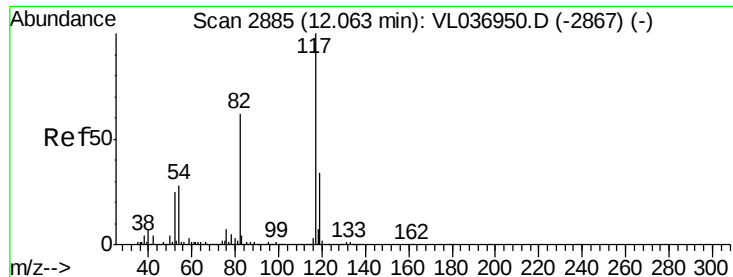
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#53
 Toluene
 Concen: 1.384 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.6	49.5	74.3





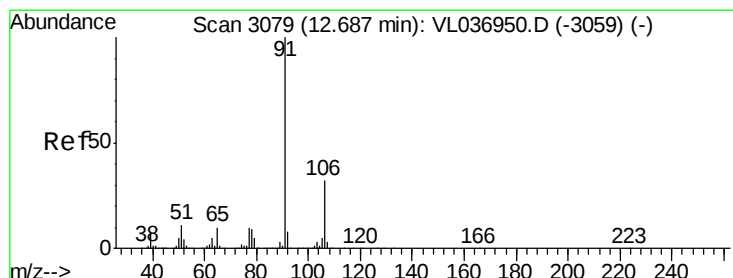
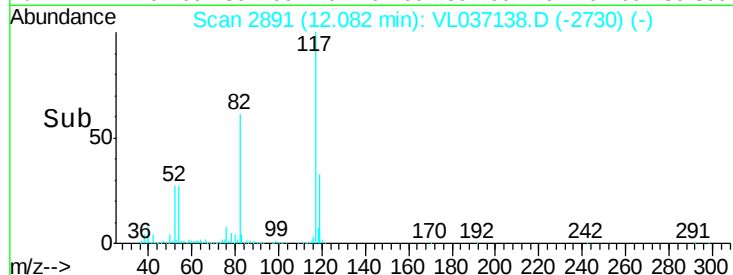
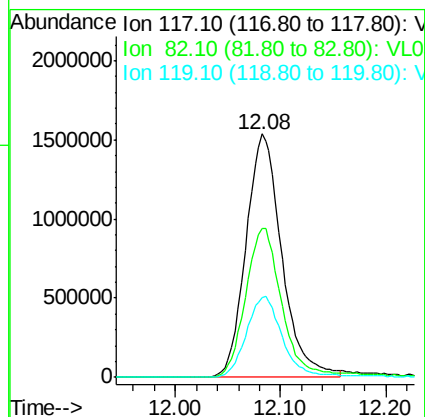
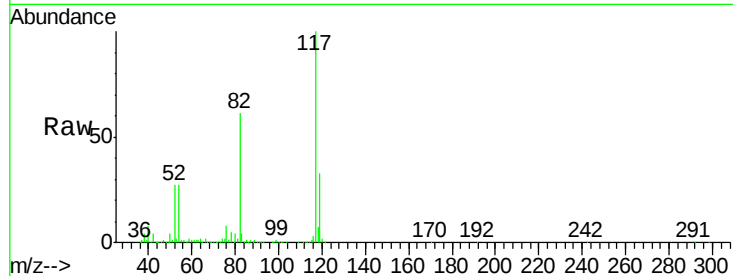
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampleId :
SR-6C

Tot Ion:117 Resp: 3641624
Ion Ratio Lower Upper
117 100
82 63.9 52.6 79.0
119 33.8 46.6 70.0#

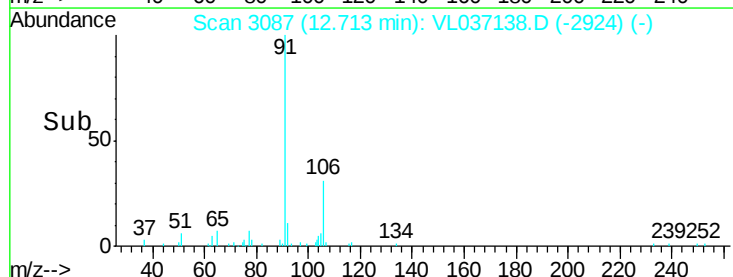
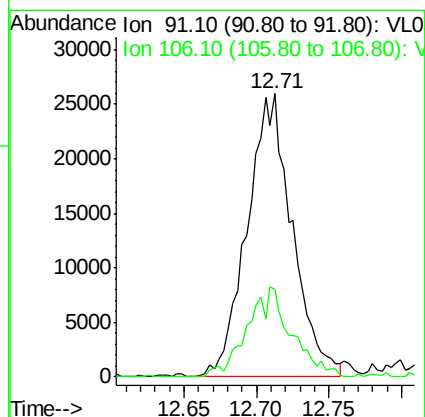
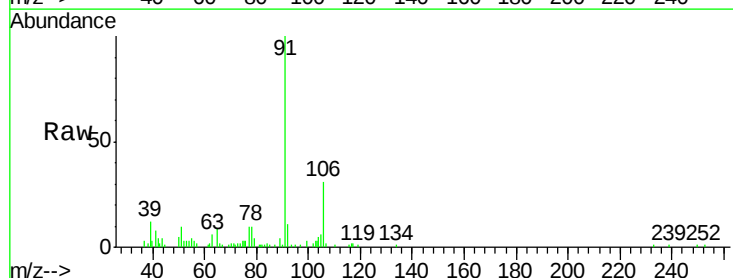
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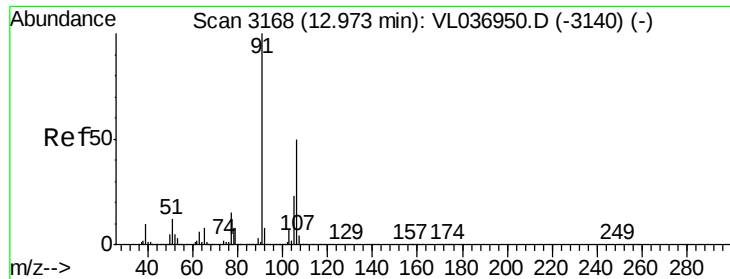
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#58
Ethyl Benzene
Concen: 0.109 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. 0.03 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 91 Resp: 56168
Ion Ratio Lower Upper
91 100
106 30.9 25.6 38.4





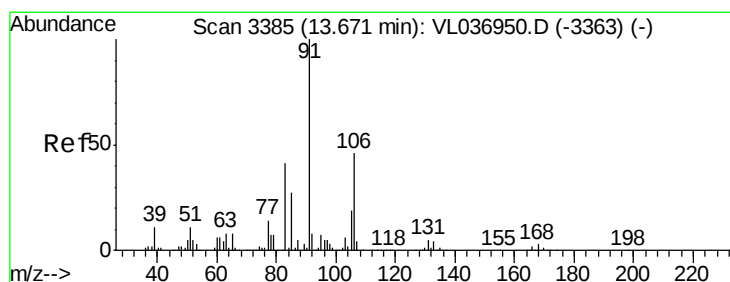
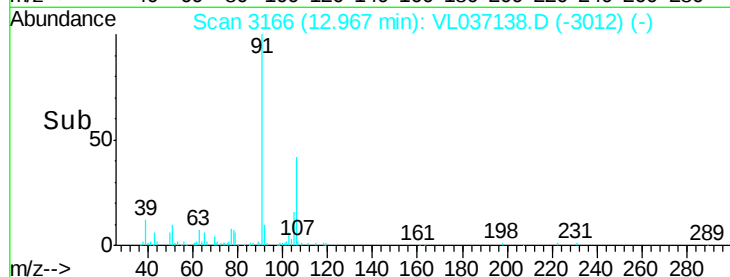
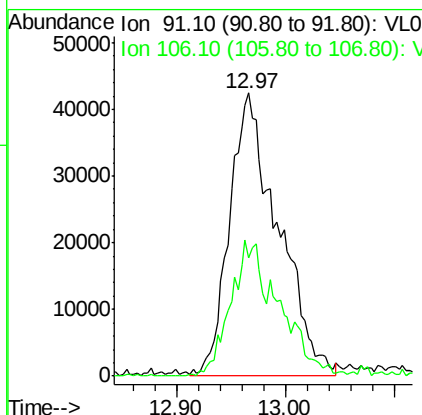
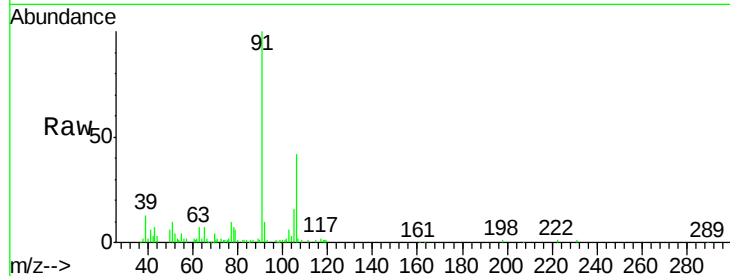
#59
m/p-Xylene
Concen: 0.311 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampled :
SR-6C

Tot Ion: 91 Resp: 132163
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

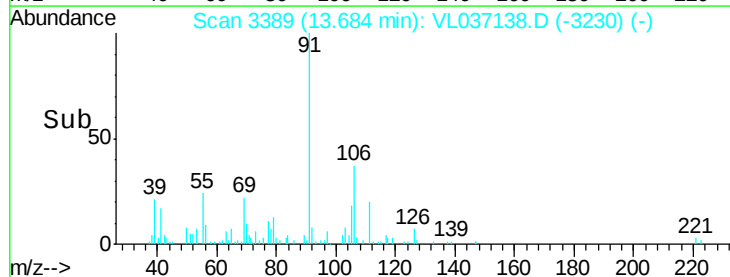
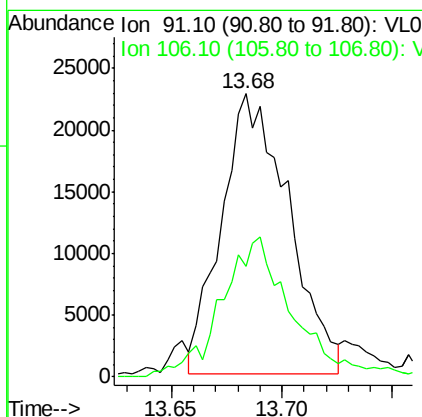
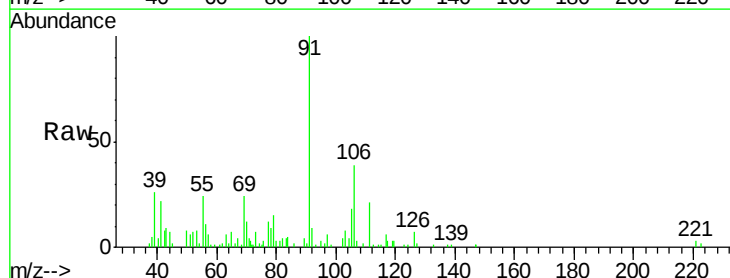
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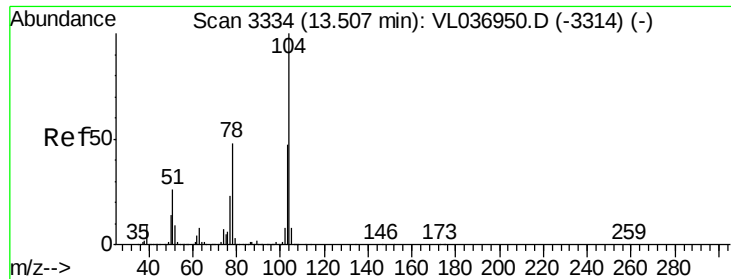
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#60
o-Xylene
Concen: 0.118 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 91 Resp: 47933
Ion Ratio Lower Upper
91 100
106 54.0 23.4 70.3





#61

Stvrene

Concen: 0.142 ppbv

RT: 13.52 min Scan# 3339

Delta R.T. 0.02 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

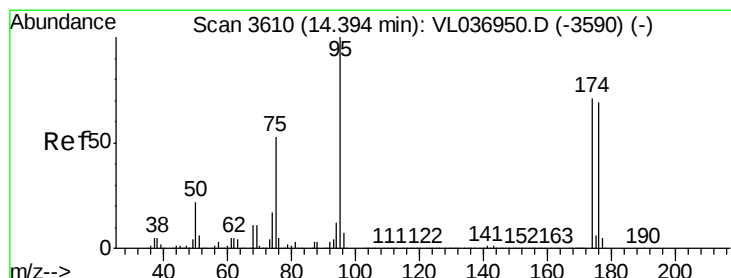
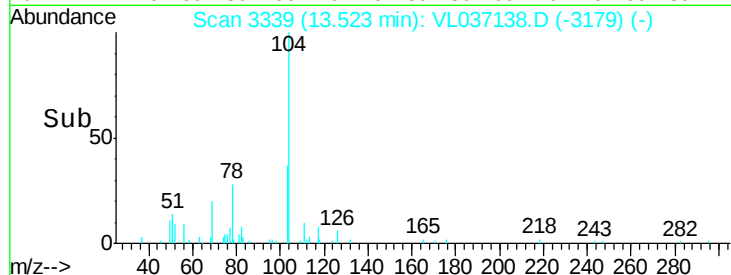
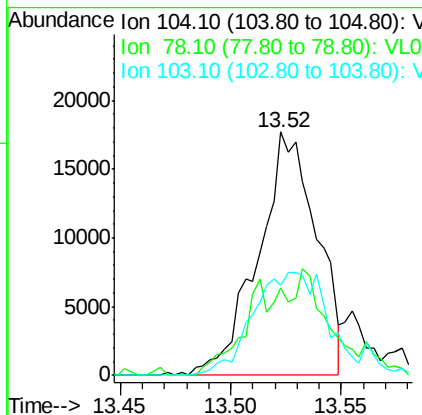
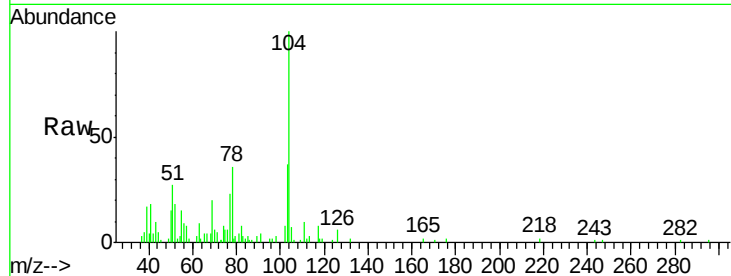
ClientSampleId :

SR-6C

Tot Ion:	104	Resp:	32525
Ion Ratio	Lower	Upper	
104	100		
78	58.7	39.0	58.6#
103	57.0	38.0	57.0#

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.029 ppbv

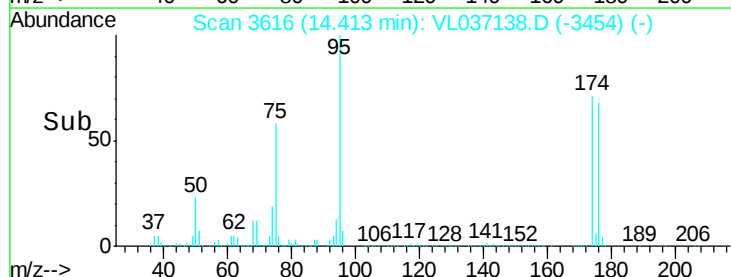
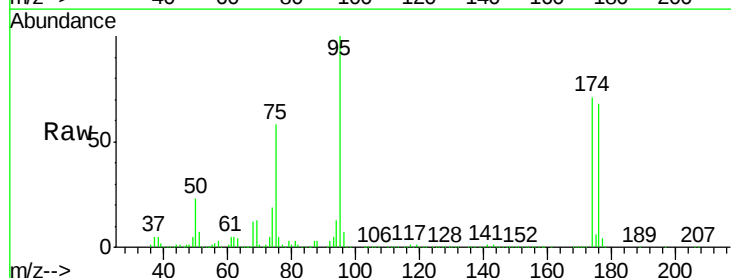
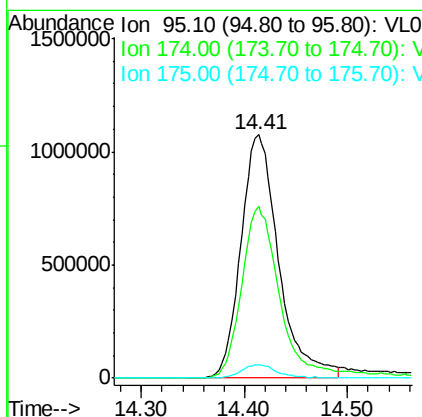
RT: 14.41 min Scan# 3616

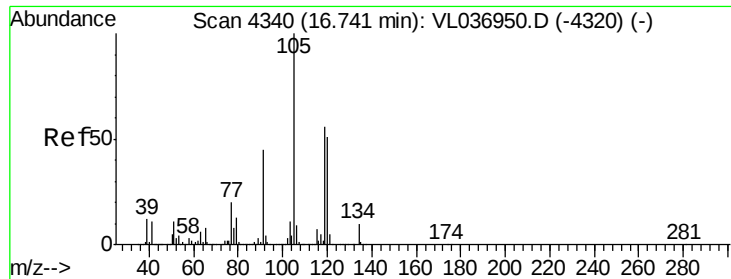
Delta R.T. 0.02 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Tgt Ion:	95	Resp:	2743677
Ion Ratio	Lower	Upper	
95	100		
174	74.2	58.4	87.6
175	5.5	4.4	6.6





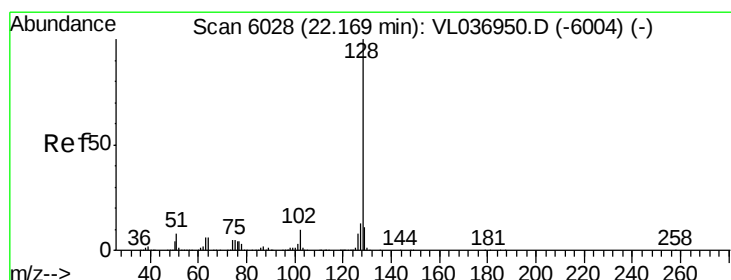
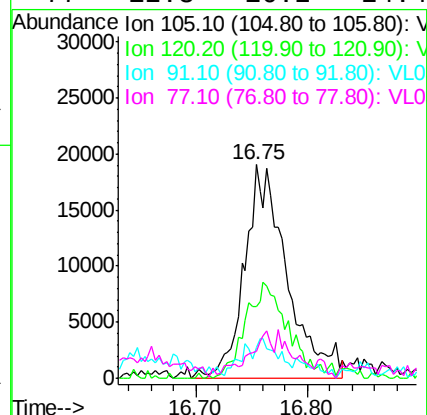
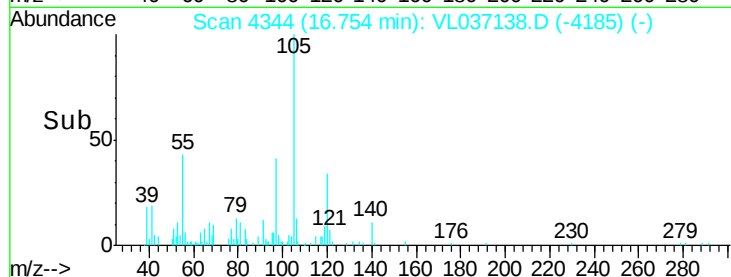
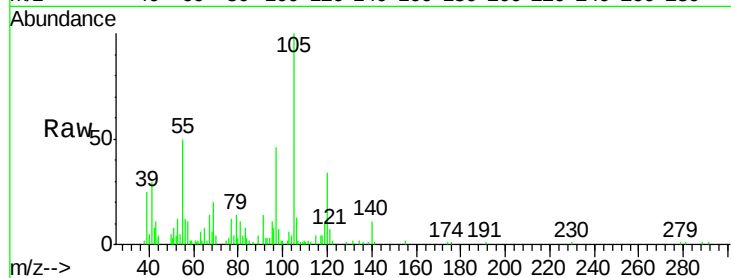
#74
 1,2,4-Trimethylbenzene
 Concen: 0.107 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Instrument :
 MSVOA_L
 ClientSampled :
 SR-6C

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	33.8	40.6	61.0#	
91	14.2	37.4	56.0#	
77	12.3	16.2	24.4#	

Manual Integrations
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#79
 Naphthalene
 Concen: 0.198 ppbv m
 RT: 22.20 min Scan# 6039
 Delta R.T. 0.04 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
127	13.1	10.4	15.6	
129	9.8	9.0	13.6	

