

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036882.D
 Acq On : 28 Apr 2021 16:42
 Operator : SY/AP
 Sample : M2201-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
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 4/29/2021 5:53:38 PM

Quant Time: Apr 29 03:37:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 2
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1495528	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3425320	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3044826	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2427261	9.93	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	53846	0.229	ppbv	96
3) Chlorodifluoromethane	3.00	51	122043	0.448	ppbv #	86
4) Chloromethane	3.16	50	48269	0.539	ppbv #	86
9) Propene	3.03	41	1844426m	22.219	ppbv	
11) Trichlorofluoromethane	3.96	101	77414	0.368	ppbv	99
13) Ethanol	3.63	45	10972136	1036.465	ppbv	94
15) Acetone	3.86	43	3541678	25.126	ppbv	96
19) Isopropyl Alcohol	4.00	45	636198	9.109	ppbv #	96
20) Methylene Chloride	4.36	84	1072984	15.918	ppbv	94
26) Hexane	5.71	57	804958	4.997	ppbv #	47
29) Chloroform	5.77	83	189032	0.753	ppbv	91
30) Cyclohexane	7.20	84	39848m	0.312	ppbv	
34) 2-Butanone	5.27	43	221284	1.475	ppbv	99
35) Carbon Tetrachloride	7.04	117	15753m	0.068	ppbv	
36) Benzene	6.91	78	56784	0.197	ppbv #	93
41) Tetrahydrofuran	6.07	42	53564m	0.816	ppbv	
52) Tetrachloroethene	11.24	164	13176m	0.134	ppbv	
53) Toluene	9.83	91	1246062	4.126	ppbv	99
59) m/p-Xylene	13.00	91	35126m	0.102	ppbv	

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

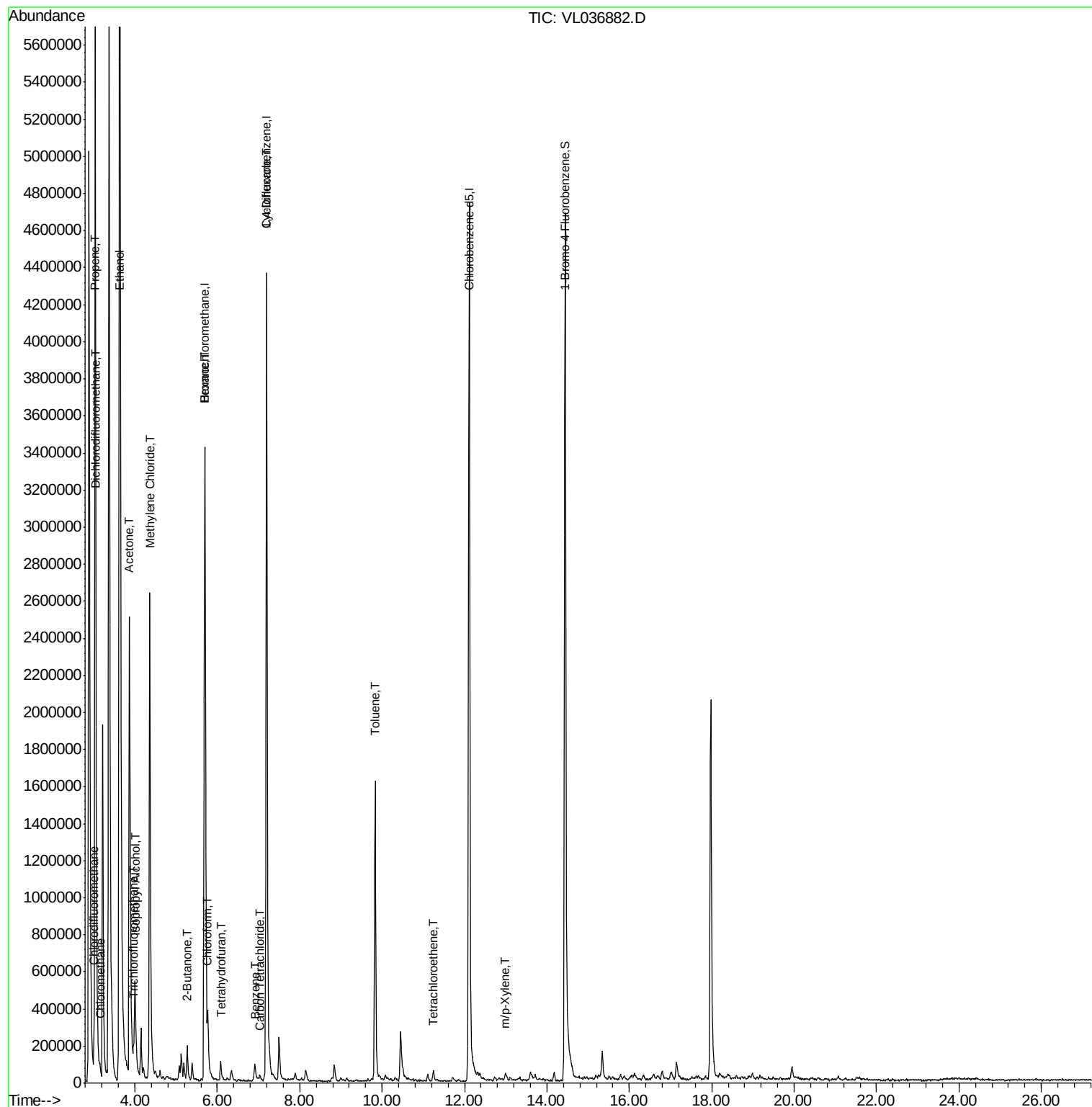
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Data File : VL036882.D
Acq On : 28 Apr 2021 16:42
Operator : SY/AP
Sample : M2201-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

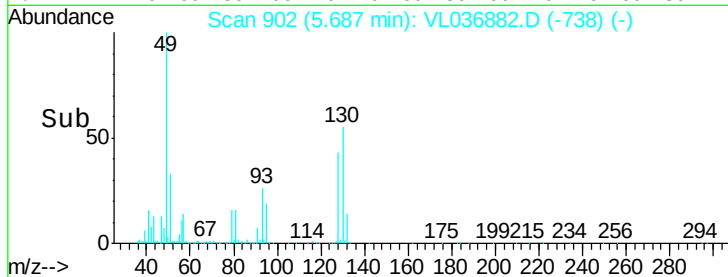
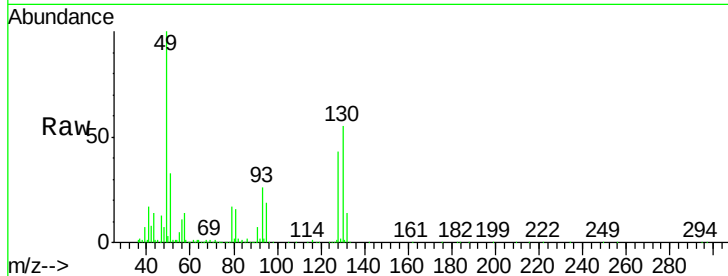
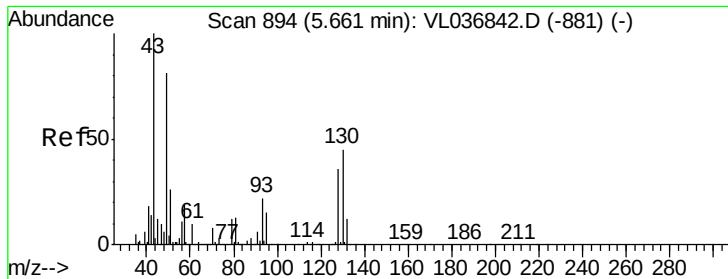
Instrument :
MSVOA_L
ClientSampleId :
IA2

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Quant Time: Apr 29 03:37:20 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





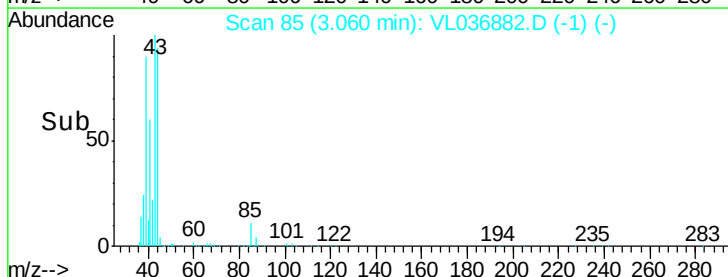
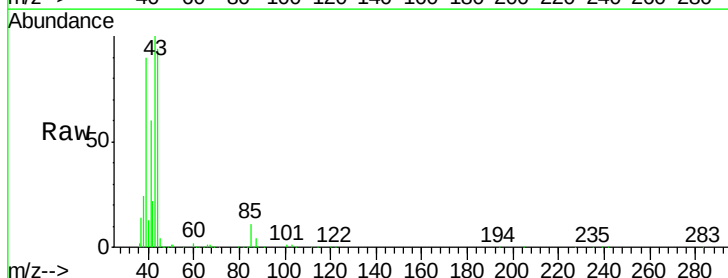
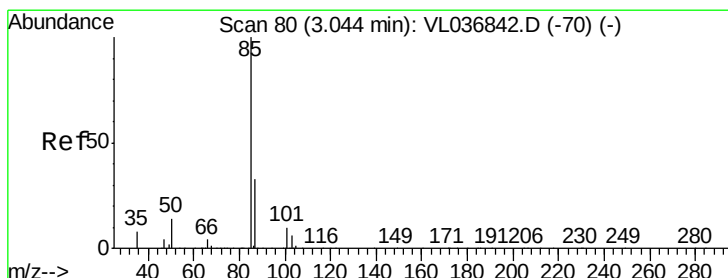
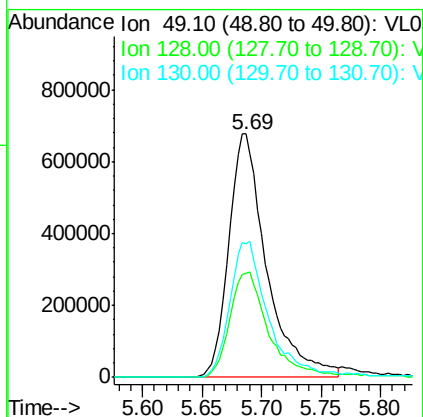
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tot Ion: 49 Resp: 1495528
Ion Ratio Lower Upper
49 100
128 45.3 24.4 73.2
130 58.2 30.3 90.8

Instrument :
MSVOA_L
ClientSampled :
IA2

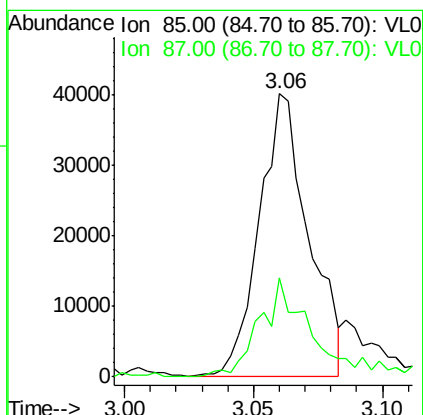
Manual Integrations
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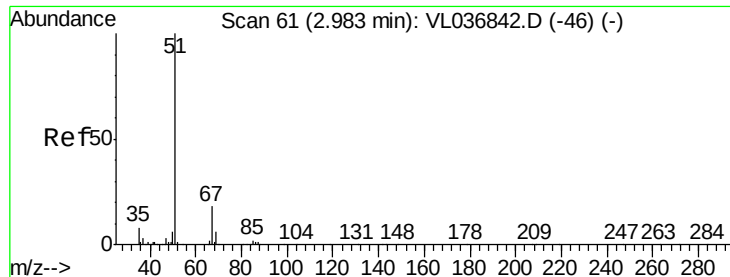
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#2
Dichlorodifluoromethane
Concen: 0.229 ppbv
RT: 3.06 min Scan# 85
Delta R.T. 0.02 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion: 85 Resp: 53846
Ion Ratio Lower Upper
85 100
87 35.2 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.448 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036882.D

Acq: 28 Apr 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 51 Resp: 122043

Ion Ratio Lower Upper

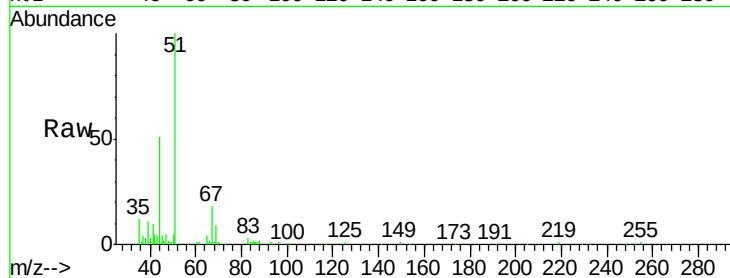
51 100

67 12.1 14.8 22.2#

Manual Integrations
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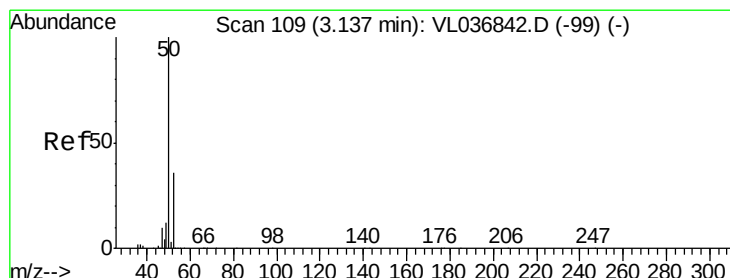
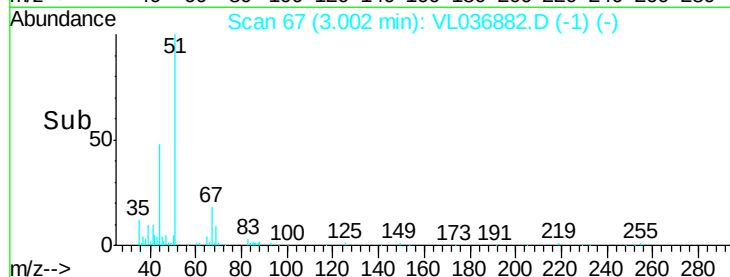
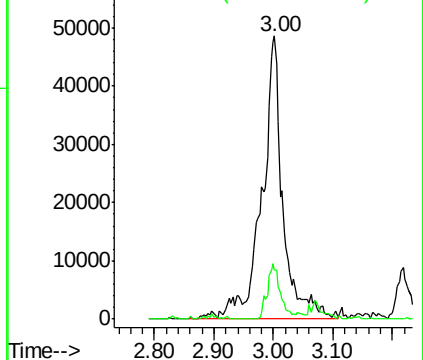
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.539 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL036882.D

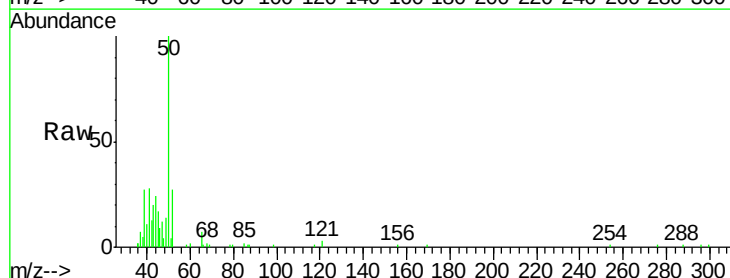
Acq: 28 Apr 2021 16:42

Tgt Ion: 50 Resp: 48269

Ion Ratio Lower Upper

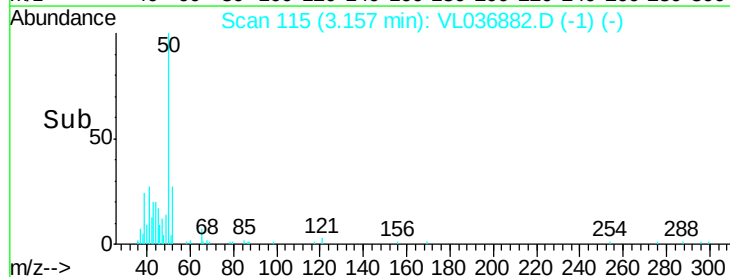
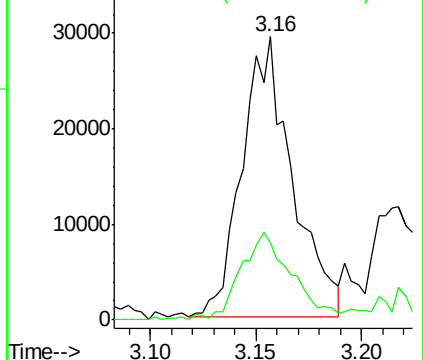
50 100

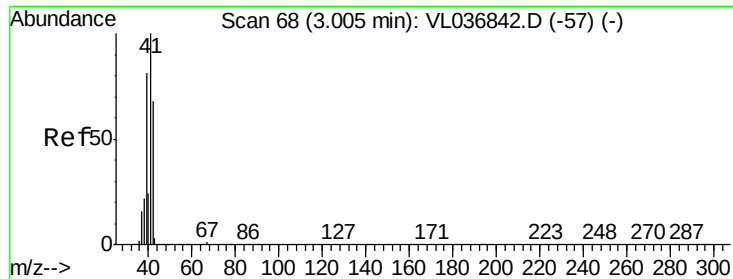
52 27.2 28.5 42.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





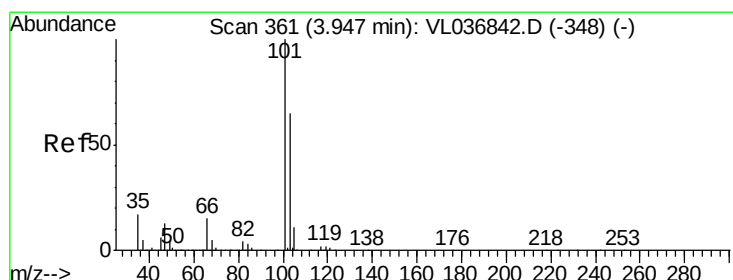
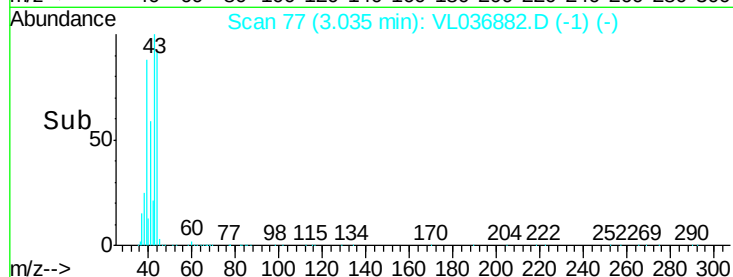
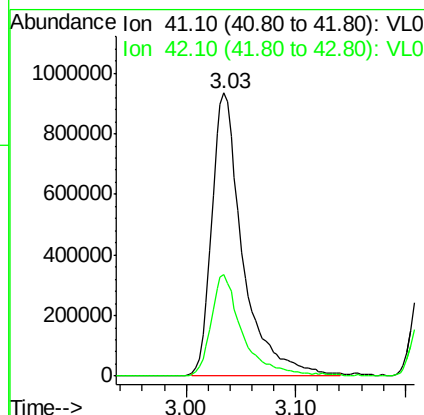
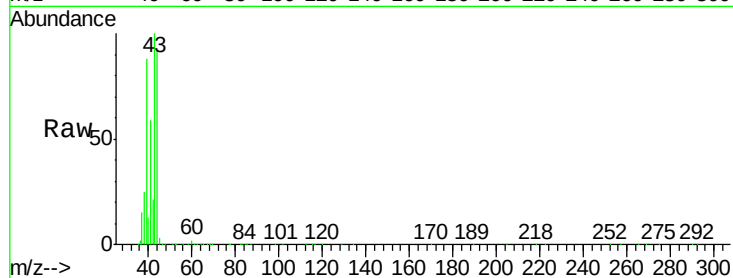
#9
 Propene
 Concen: 22.219 ppbv m
 RT: 3.03 min Scan# 77
 Delta R.T. 0.03 min
 Lab File: VL036882.D
 Acq: 28 Apr 2021 16:42

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion: 41 Resp: 1844426
 Ion Ratio Lower Upper
 41 100
 42 24.5 56.0 84.0#

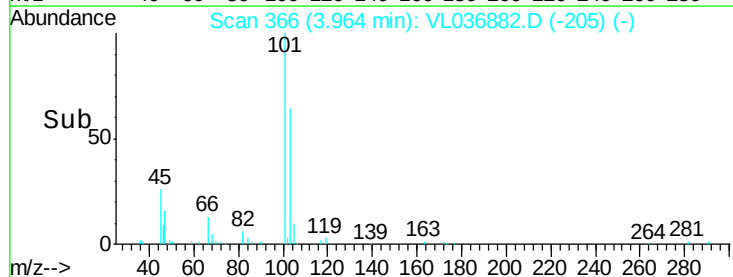
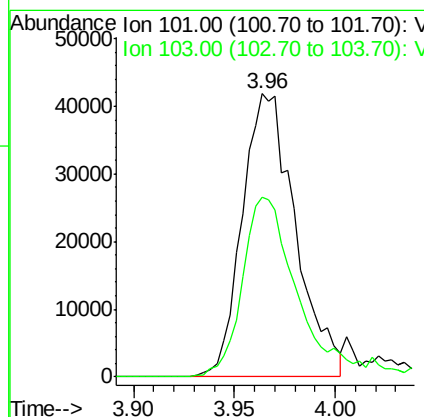
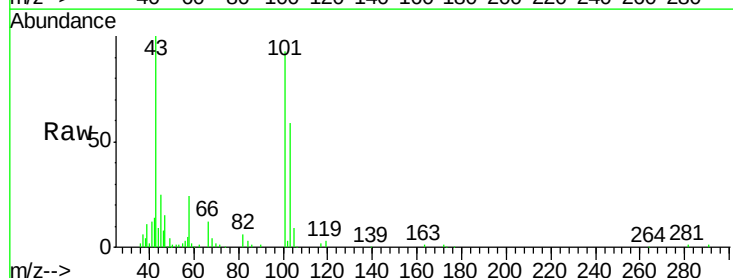
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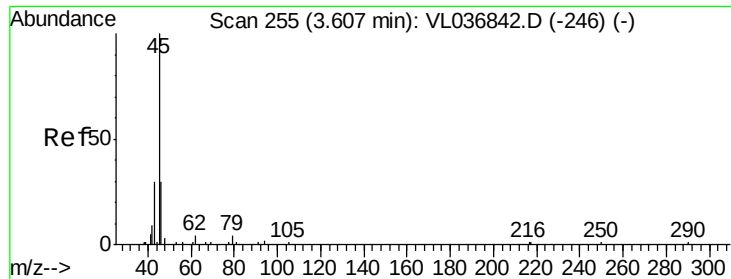
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#11
 Trichlorofluoromethane
 Concen: 0.368 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VL036882.D
 Acq: 28 Apr 2021 16:42

Tgt Ion: 101 Resp: 77414
 Ion Ratio Lower Upper
 101 100
 103 63.6 51.6 77.4





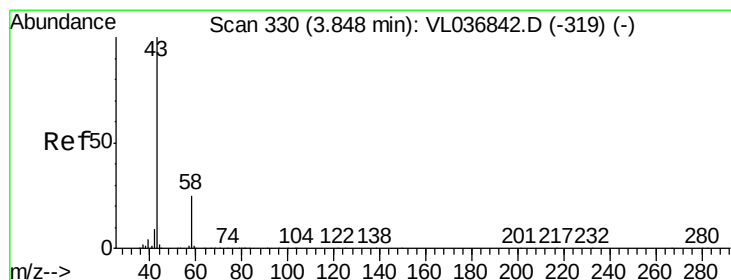
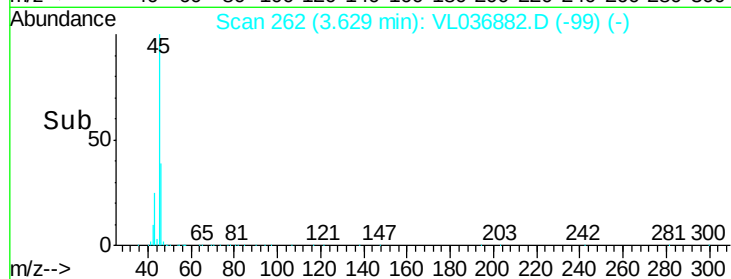
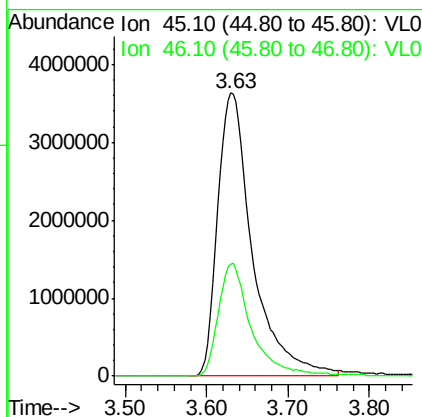
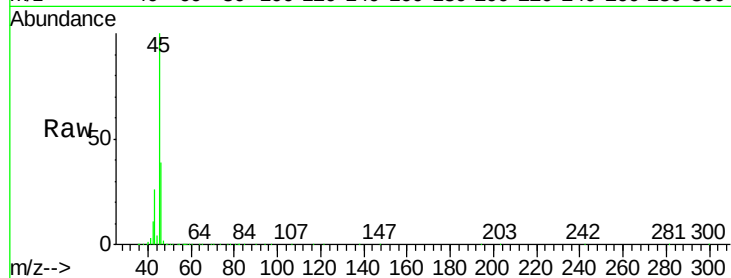
#13
Ethanol
Concen: 1036.465 ppbv
RT: 3.63 min Scan# 262
Delta R.T. 0.02 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 45 Resp:10972136
Ion Ratio Lower Upper
45 100
46 38.6 16.8 67.4

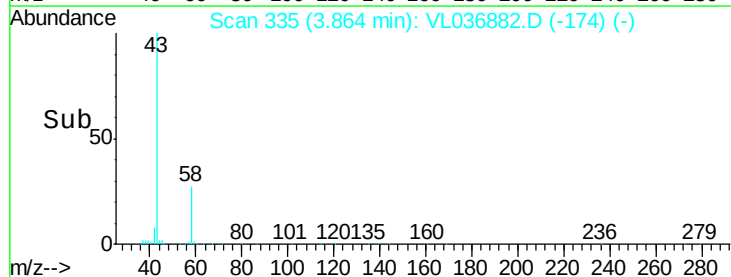
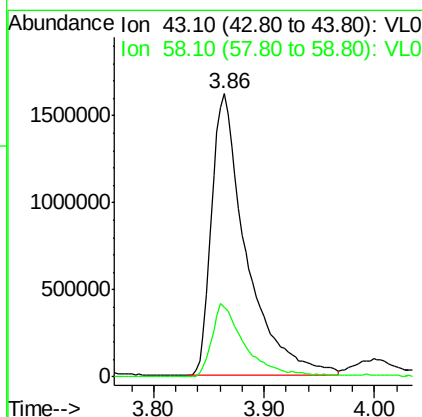
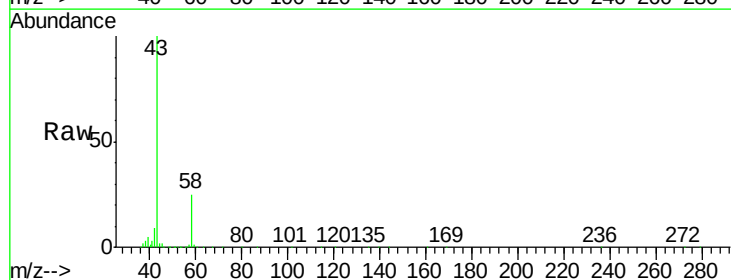
Manual Integrations
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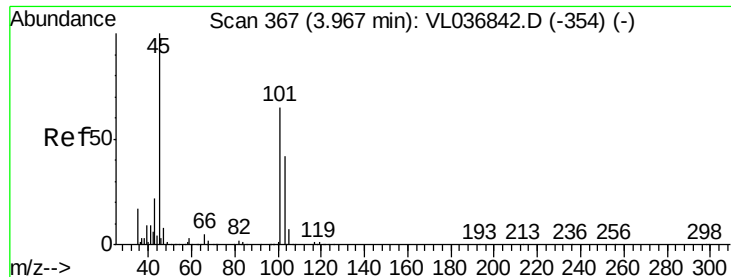
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#15
Acetone
Concen: 25.126 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion: 43 Resp: 3541678
Ion Ratio Lower Upper
43 100
58 25.2 21.7 32.5





#19

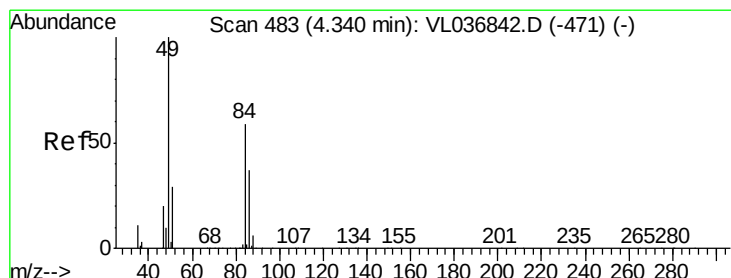
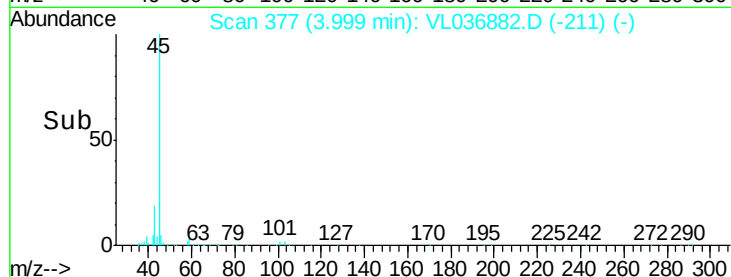
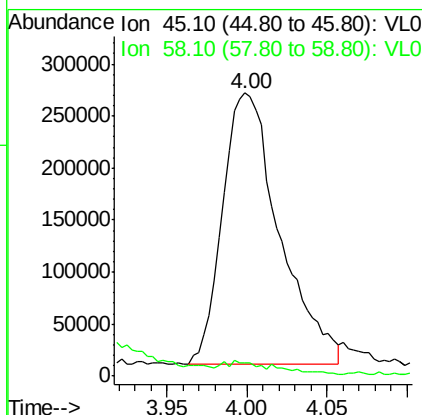
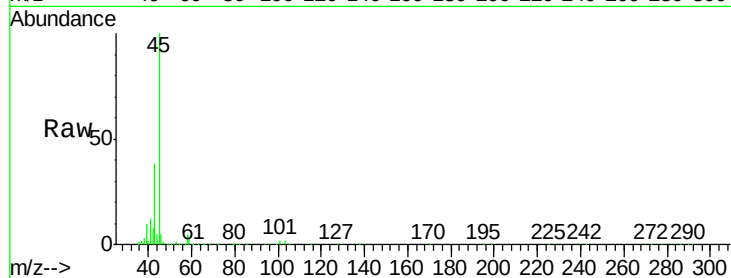
Isopropyl Alcohol
 Concen: 9.109 ppbv
 RT: 4.00 min Scan# 377
 Delta R.T. 0.03 min
 Lab File: VL036882.D
 Acq: 28 Apr 2021 16:42

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion	Ratio	Lower	Upper
45	100		
58	4.9	2.8	4.2#

Manual Integrations
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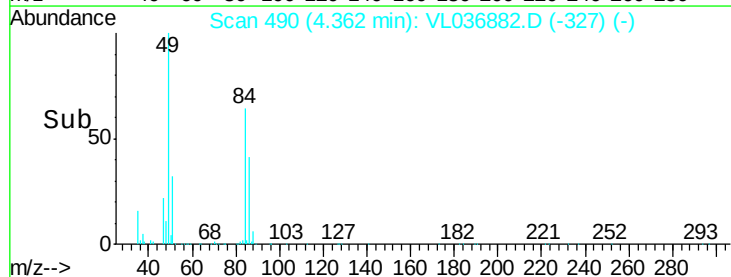
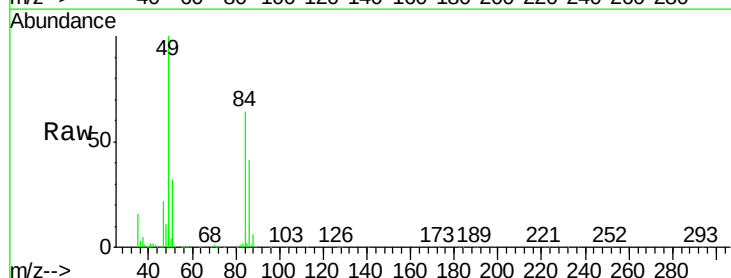
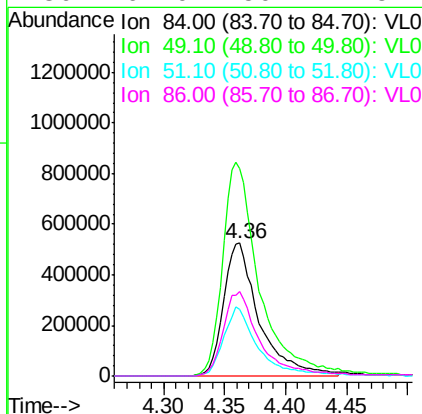
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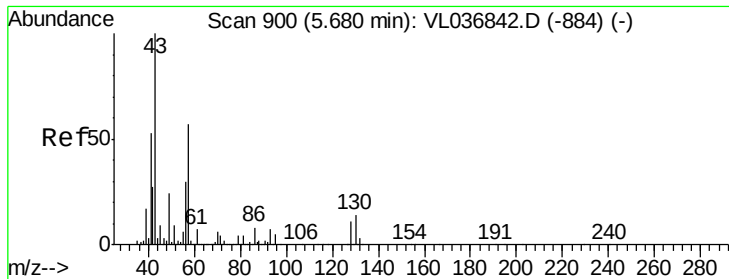


#20

Methylene Chloride
 Concen: 15.918 ppbv
 RT: 4.36 min Scan# 490
 Delta R.T. 0.02 min
 Lab File: VL036882.D
 Acq: 28 Apr 2021 16:42

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.2	135.4	203.0
51	50.0	39.3	58.9
86	64.0	50.2	75.2





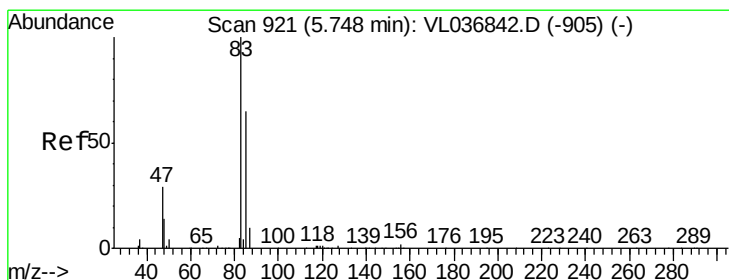
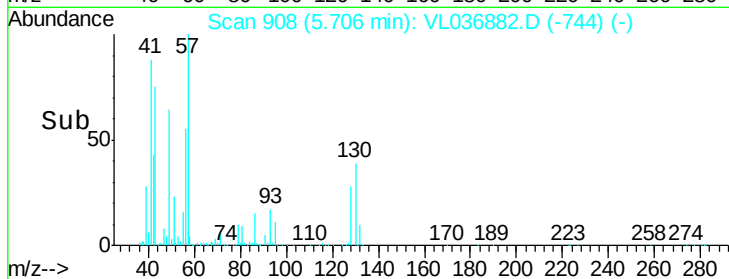
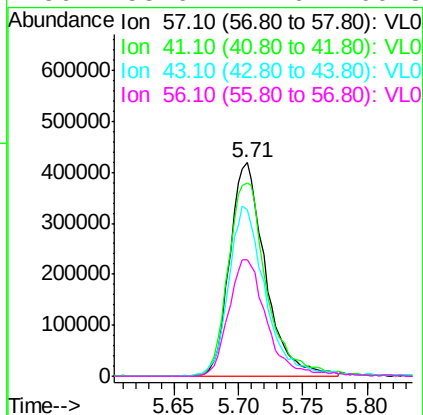
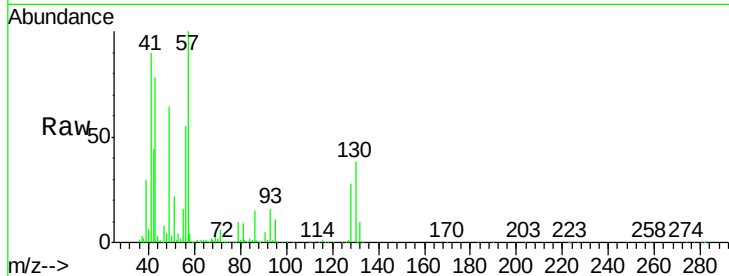
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Hexane
Concen: 4.997 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.7	77.7	116.5
43	82.0	180.5	270.7#
56	58.6	44.6	66.8

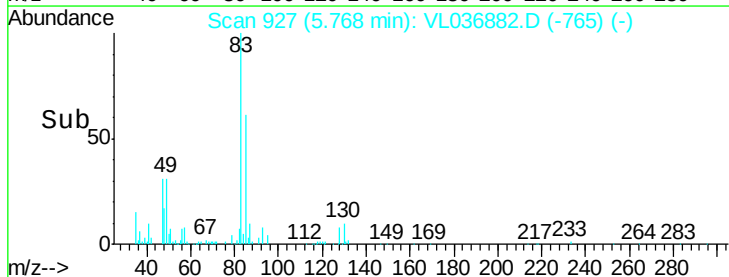
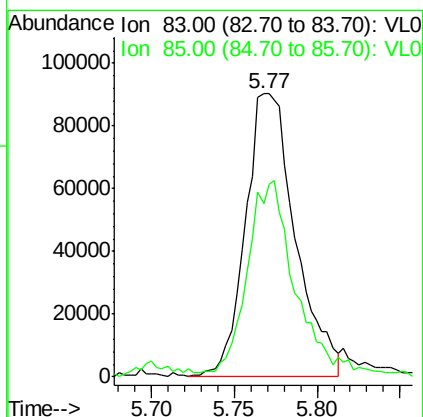
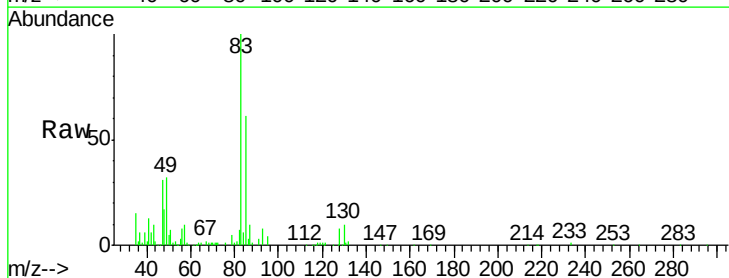
Manual Integrations
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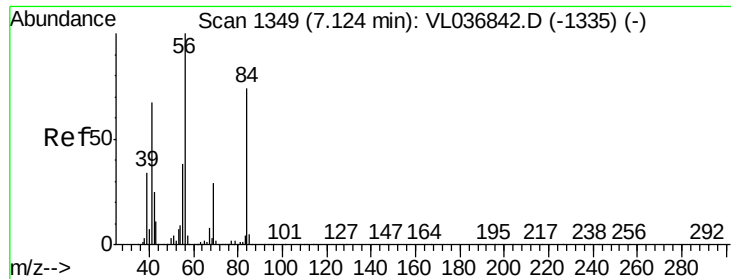
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#29
Chloroform
Concen: 0.753 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.02 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.5	52.2	78.4





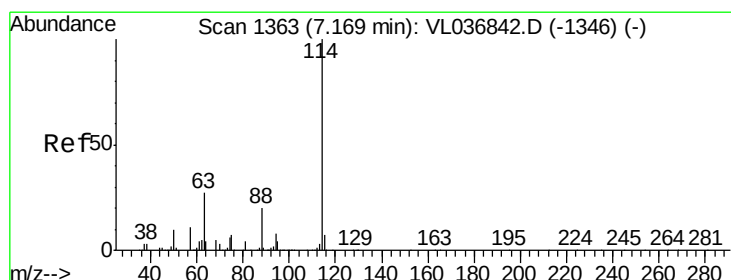
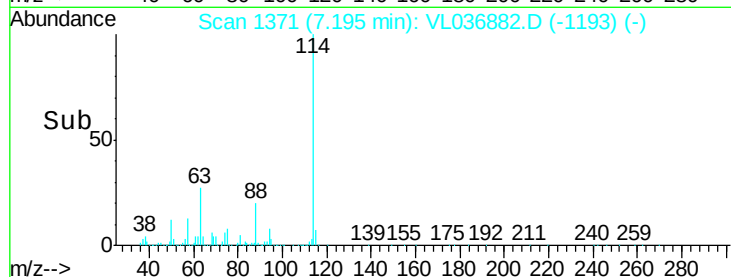
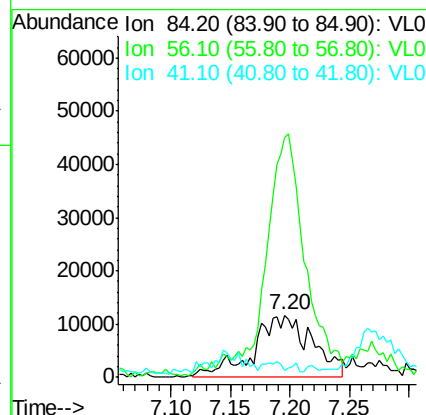
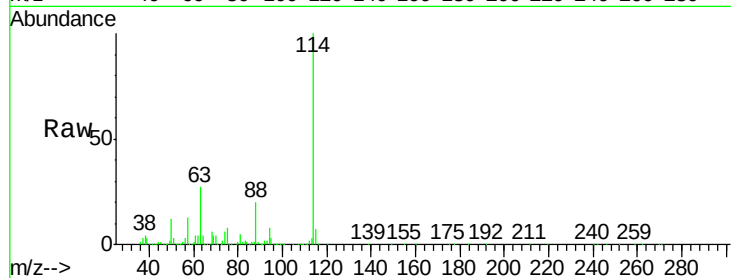
#30
Cyclohexane
Concen: 0.312 ppbv m
RT: 7.20 min Scan# 1371
Delta R.T. 0.07 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.8	173.6#
41	0.0	74.6	111.8#

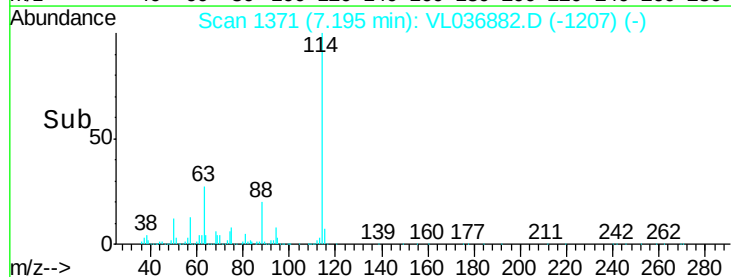
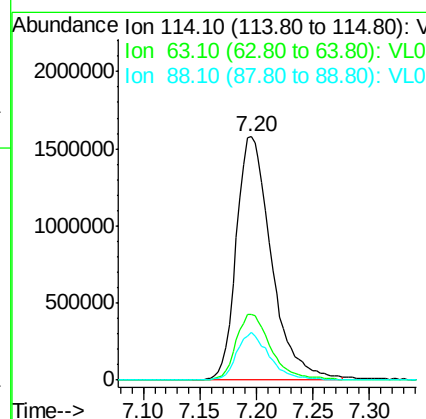
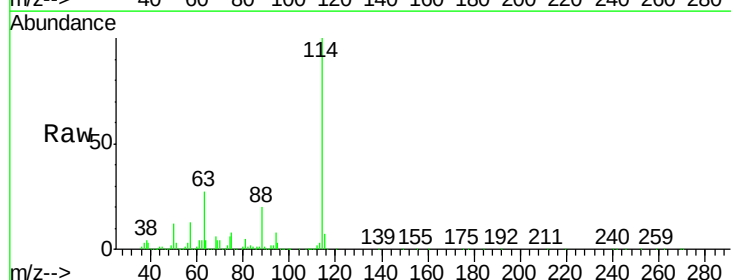
Manual Integrations
APPROVED

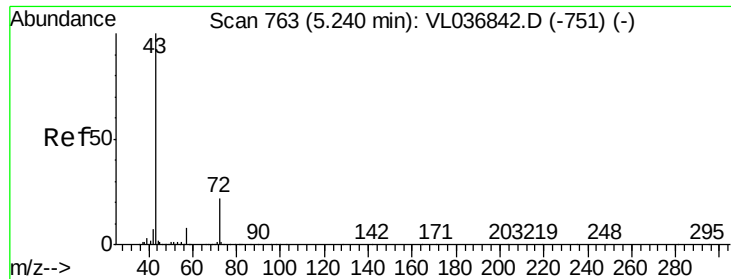
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.9	32.9
88	18.7	15.1	22.7





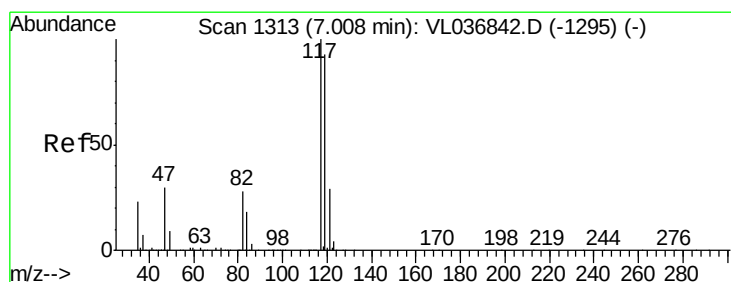
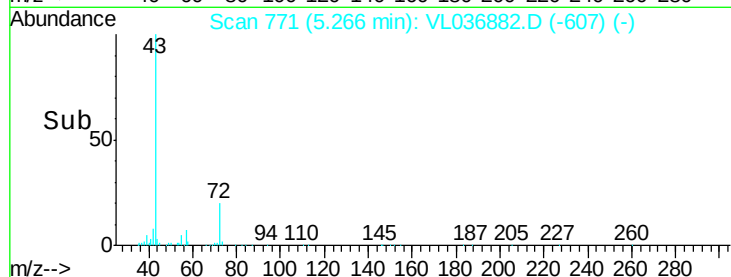
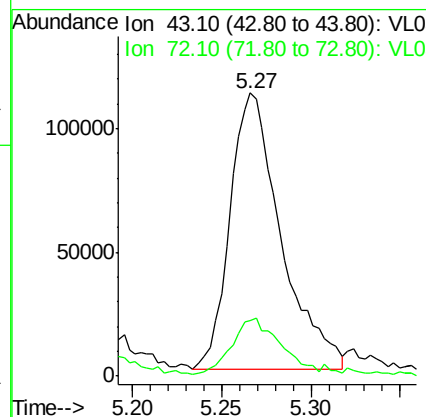
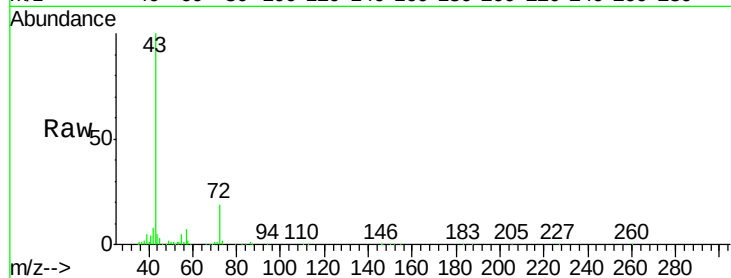
#34
2-Butanone
Concen: 1.475 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	43	Resp	221284
Ion Ratio	100	Lower	Upper
72	22.6	17.6	26.4

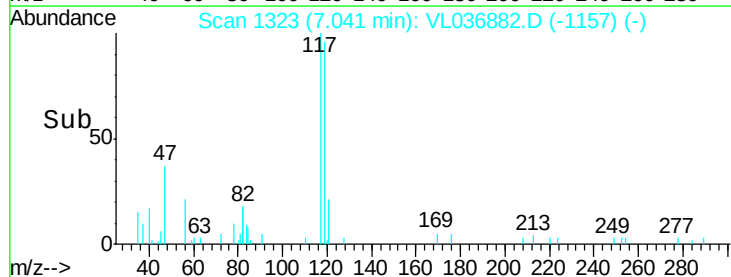
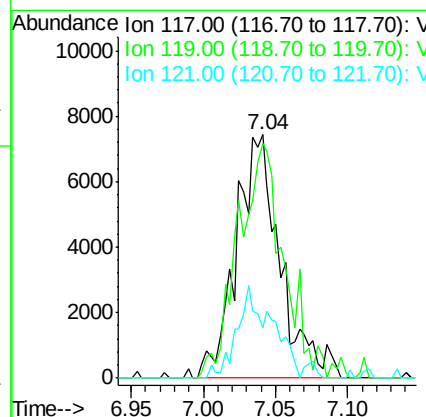
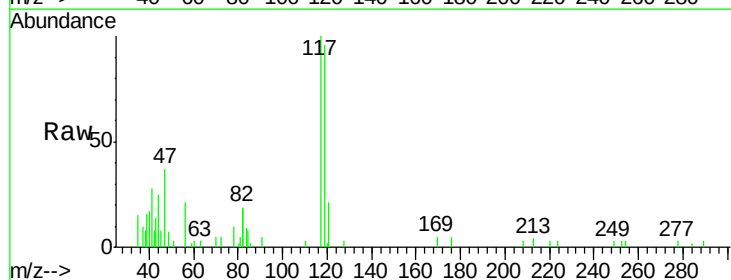
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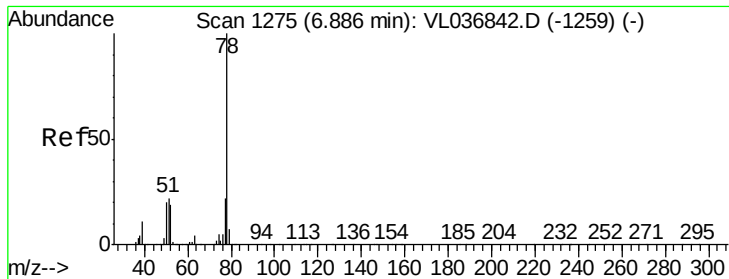
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#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.04 min Scan# 1323
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion	117	Resp	15753
Ion Ratio	100	Lower	Upper
119	96.4	74.6	111.8
121	20.8	23.3	34.9#





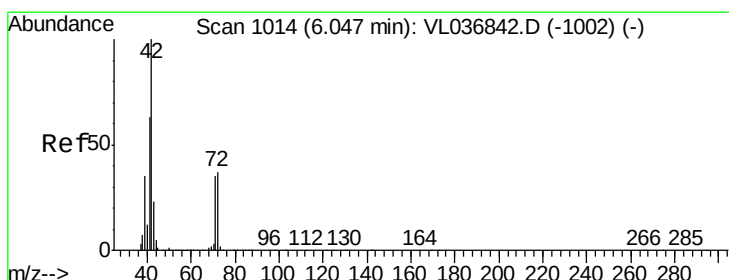
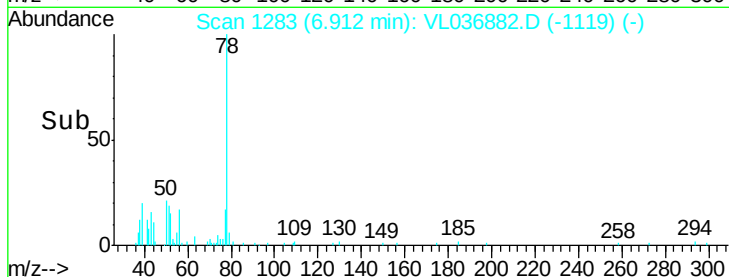
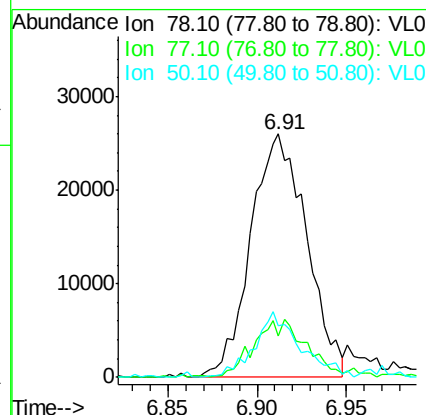
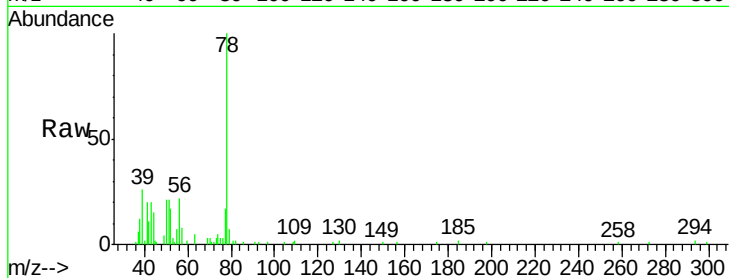
#36
Benzene
Concen: 0.197 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.1	17.6	26.4#
50	21.0	16.3	24.5

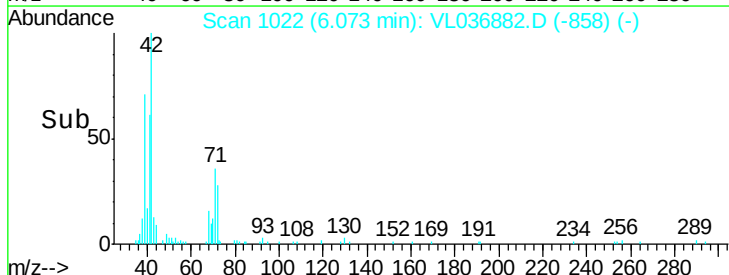
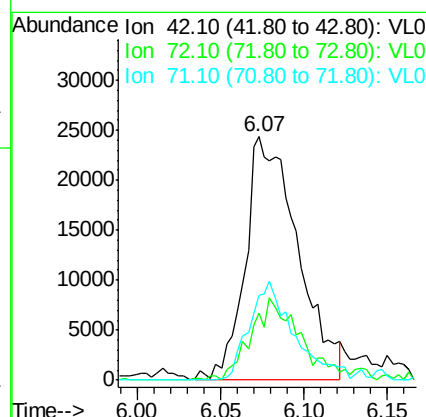
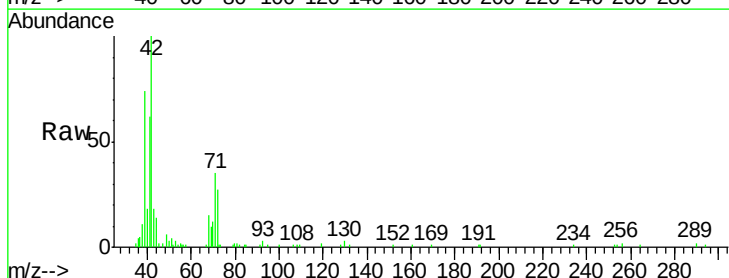
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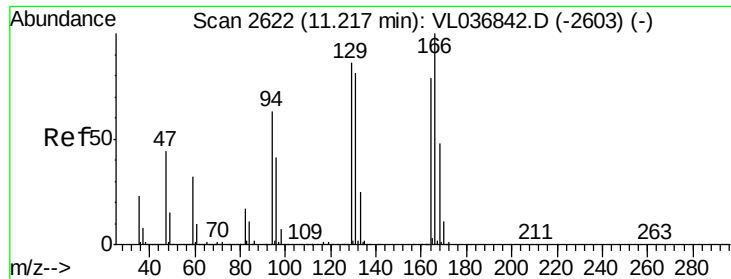
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#41
Tetrahydrofuran
Concen: 0.816 ppbv m
RT: 6.07 min Scan# 1022
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.7	44.5#
71	0.0	29.0	43.6#





#52

Tetrachloroethene

Concen: 0.134 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.03 min

Lab File: VL036882.D

Acq: 28 Apr 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion:164 Resp: 13176

Ion Ratio Lower Upper

164 100

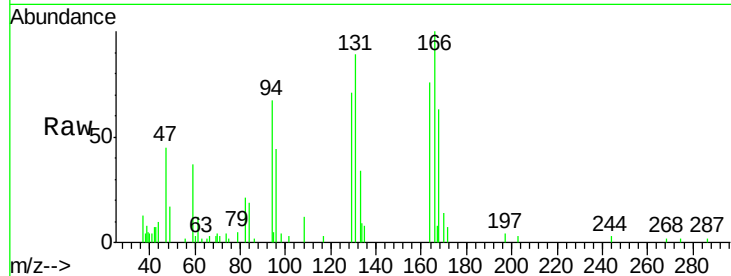
166 131.0 100.9 151.3

129 93.5 87.0 130.4

131 117.0 81.7 122.5

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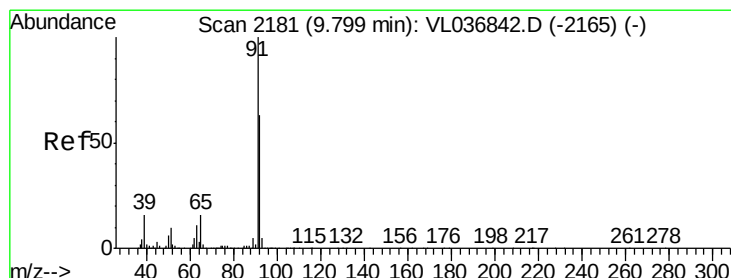
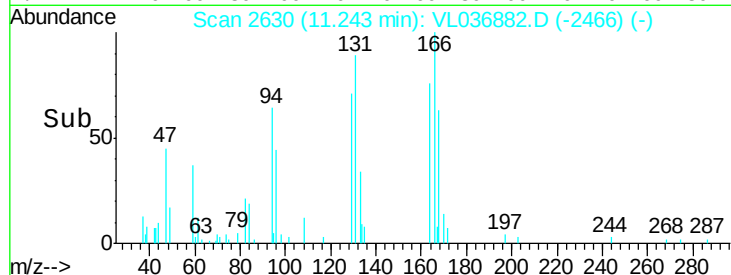
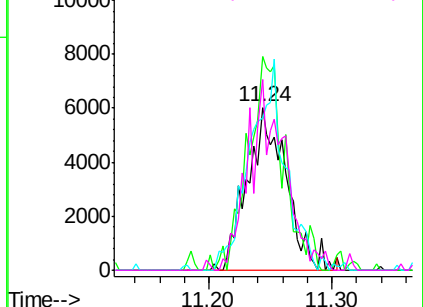


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 4.126 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036882.D

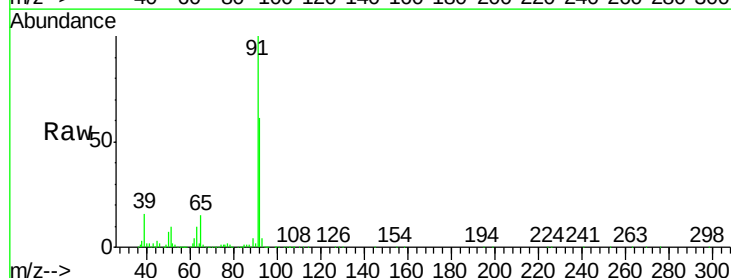
Acq: 28 Apr 2021 16:42

Tgt Ion: 91 Resp: 1246062

Ion Ratio Lower Upper

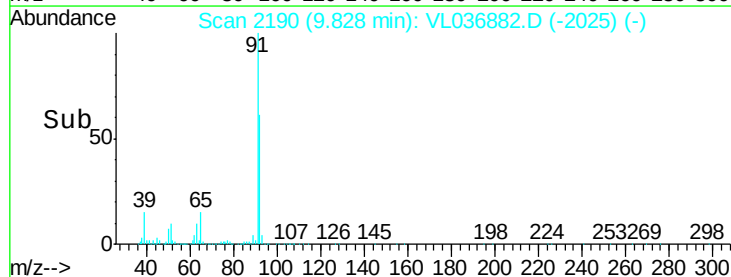
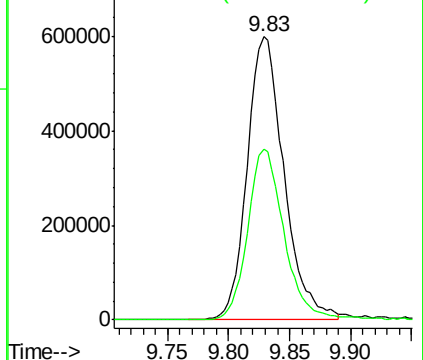
91 100

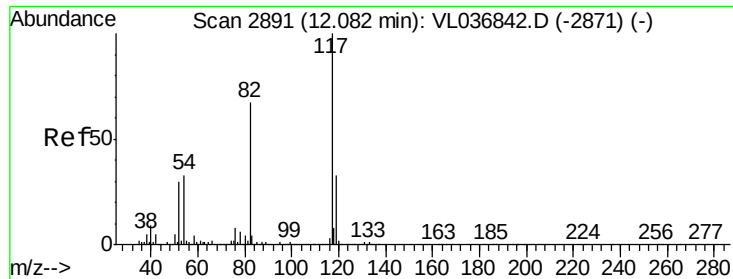
92 60.3 49.0 73.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





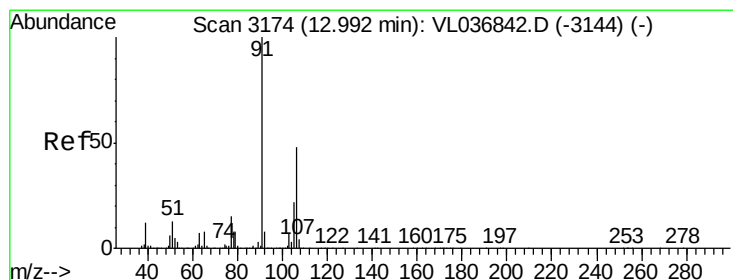
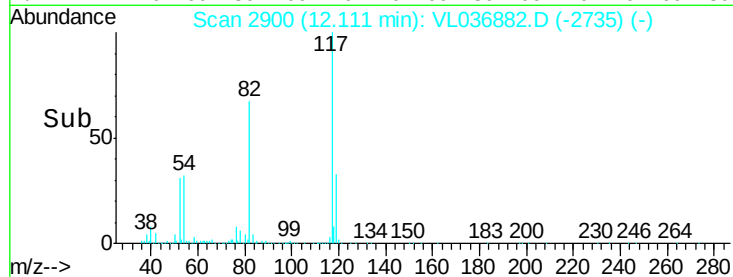
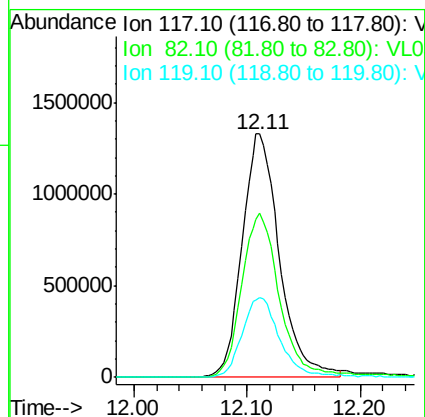
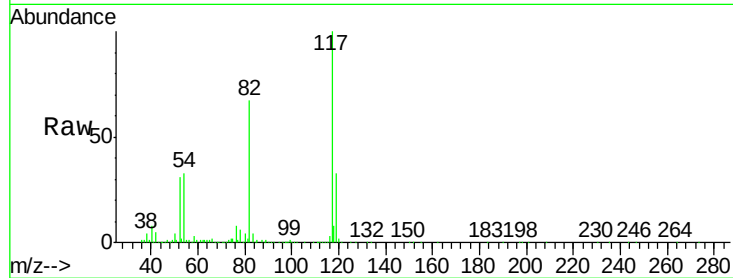
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.03 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tot Ion:117 Resp: 3044826
Ion Ratio Lower Upper
117 100
82 70.6 53.5 80.3
119 34.1 25.6 38.4

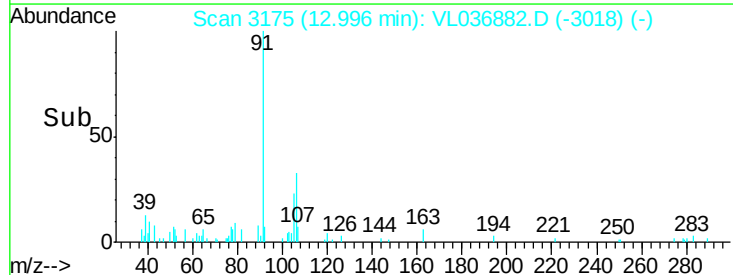
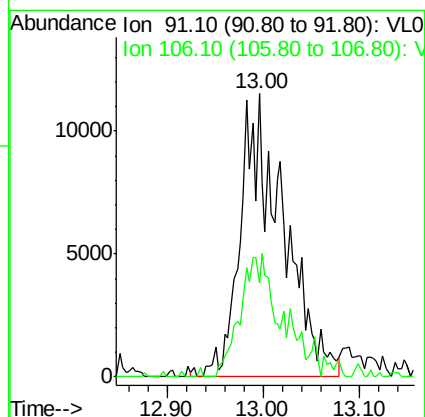
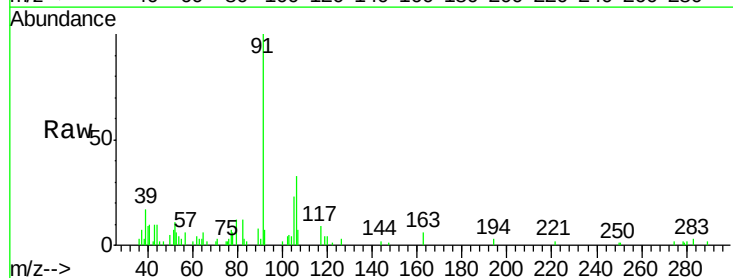
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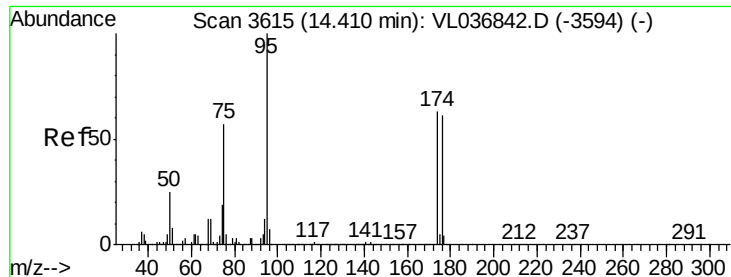
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#59
m/p-Xylene
Concen: 0.102 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. 0.00 min
Lab File: VL036882.D
Acq: 28 Apr 2021 16:42

Tgt Ion: 91 Resp: 35126
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.931 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. 0.03 min
 Lab File: VL036882.D
 Acq: 28 Apr 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.2	52.2	78.2
175	4.9	4.0	6.0

Manual Integrations
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MMDadoda
 4/29/2021 5:53:38 PM

