

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036884.D
 Acq On : 28 Apr 2021 18:02
 Operator : SY/AP
 Sample : M2201-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 4/29/2021 5:53:34 PM

Quant Time: Apr 29 12:26:01 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	5.68	49	1494717	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3349772	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2942773	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2275535	9.63	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	62331	0.265	ppbv	90
3) Chlorodifluoromethane	3.00	51	89120	0.327	ppbv #	82
4) Chloromethane	3.16	50	49731	0.556	ppbv #	75
9) Propene	3.03	41	50145	0.604	ppbv	100
11) Trichlorofluoromethane	3.97	101	43181m	0.205	ppbv	
13) Ethanol	3.64	45	247094m	23.354	ppbv	
15) Acetone	3.87	43	530454	3.765	ppbv	97
19) Isopropyl Alcohol	4.01	45	190571m	2.730	ppbv	
20) Methylene Chloride	4.36	84	325875	4.837	ppbv	94
26) Hexane	5.71	57	235992	1.466	ppbv #	44
30) Cyclohexane	7.19	84	35512m	0.278	ppbv	
34) 2-Butanone	5.27	43	31169m	0.212	ppbv	
35) Carbon Tetrachloride	7.04	117	17157m	0.075	ppbv	
36) Benzene	6.91	78	41639	0.148	ppbv	97
52) Tetrachloroethene	11.23	164	3085m	0.032	ppbv	
53) Toluene	9.83	91	82015m	0.278	ppbv	
59) m/p-Xylene	13.00	91	34320m	0.103	ppbv	

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

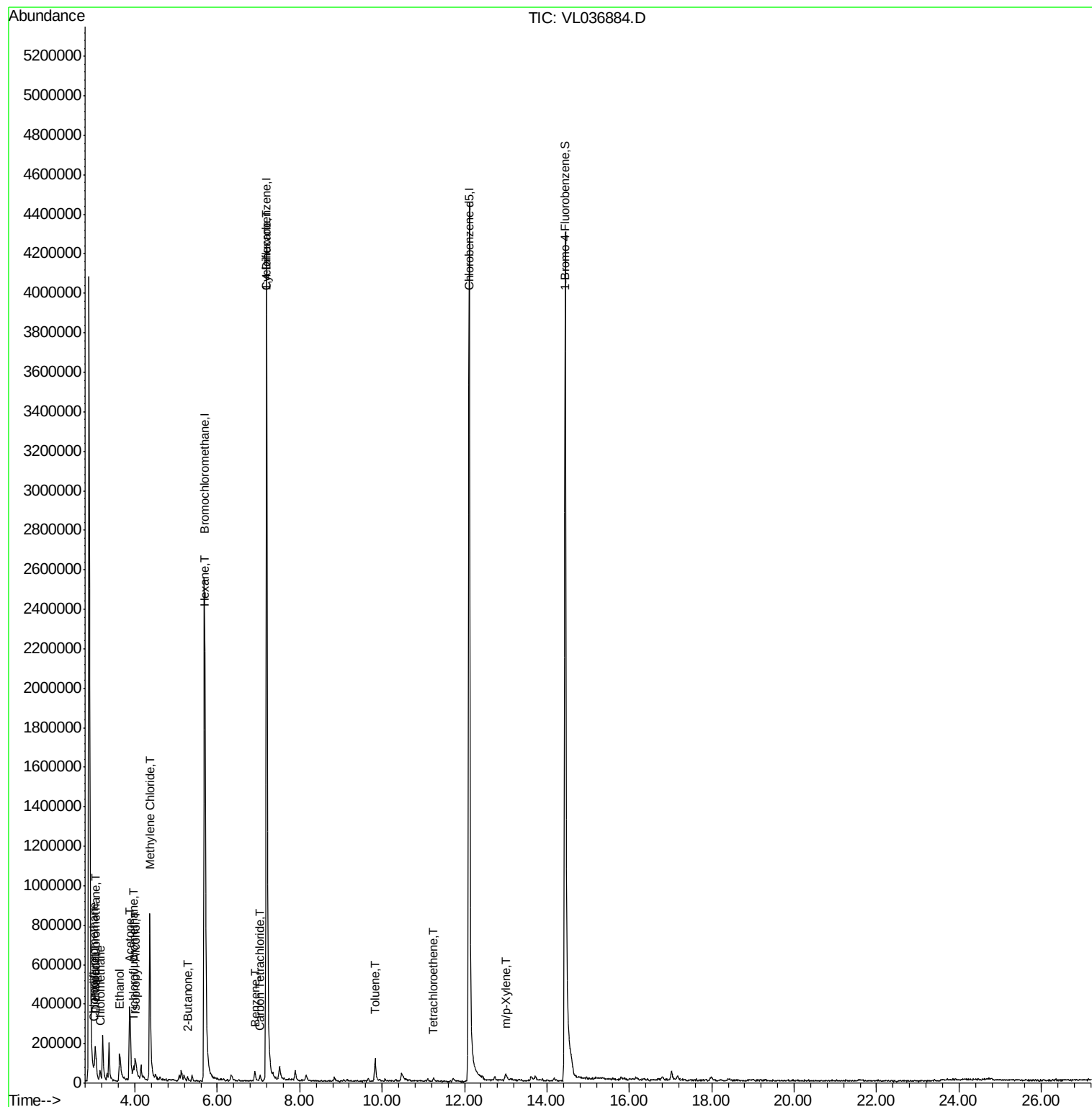
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042821\
Data File : VL036884.D
Acq On : 28 Apr 2021 18:02
Operator : SY/AP
Sample : M2201-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

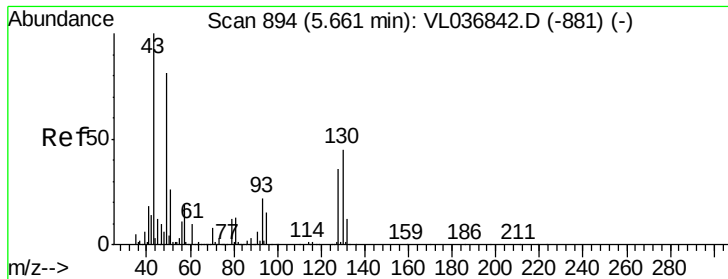
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: Apr 29 12:26:01 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 49 Resp: 1494717

Ion Ratio Lower Upper

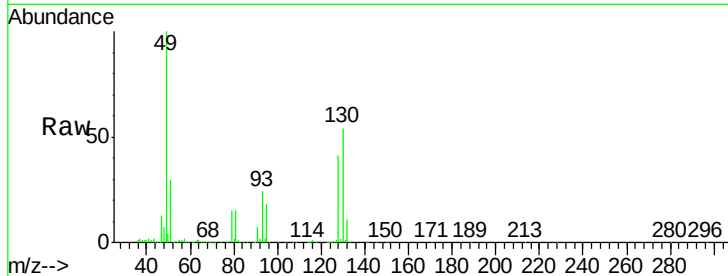
49 100

128 44.3 24.4 73.2

130 56.2 30.3 90.8

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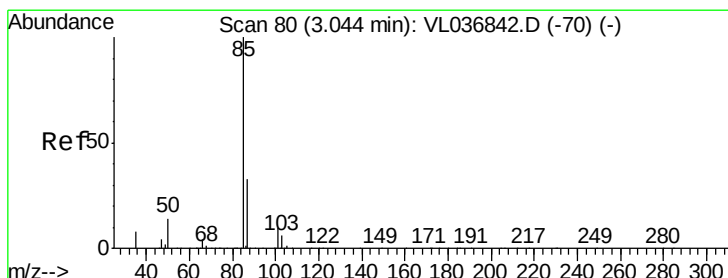
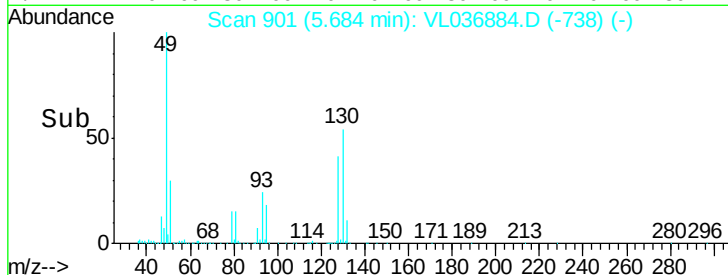
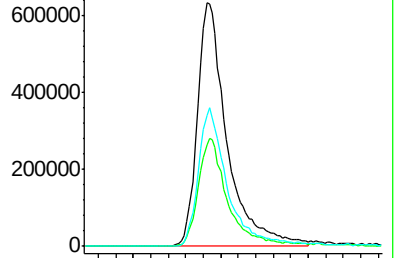


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.68



#2

Dichlorodifluoromethane

Concen: 0.265 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL036884.D

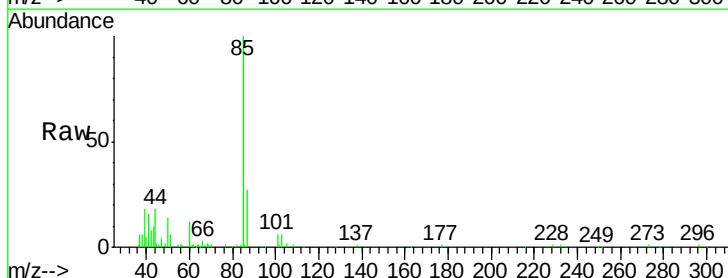
Acq: 28 Apr 2021 18:02

Tgt Ion: 85 Resp: 62331

Ion Ratio Lower Upper

85 100

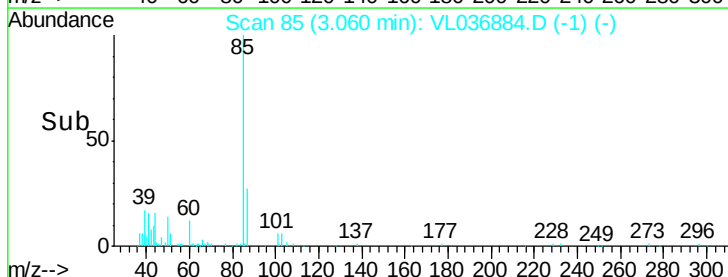
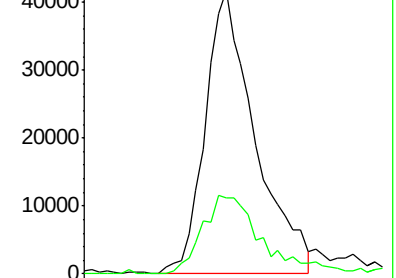
87 27.0 26.2 39.2

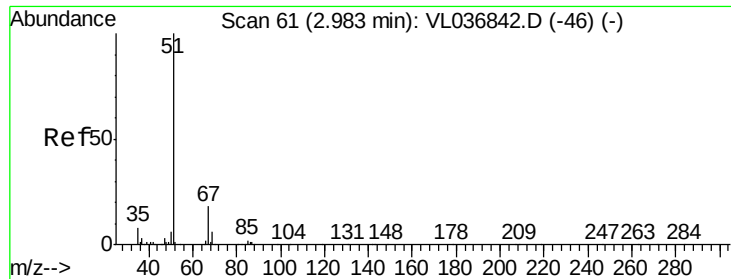


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.06





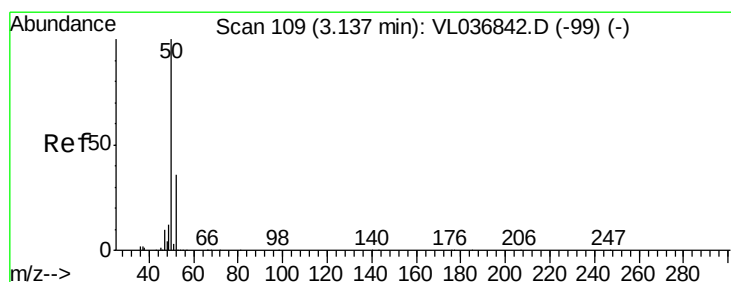
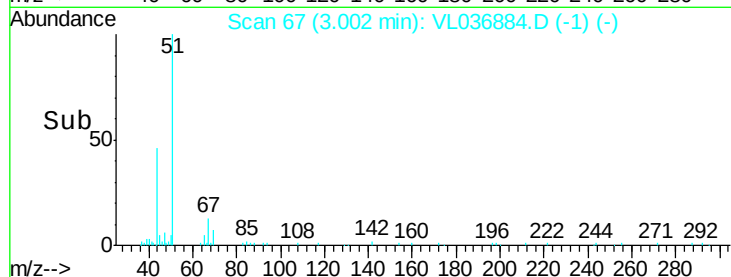
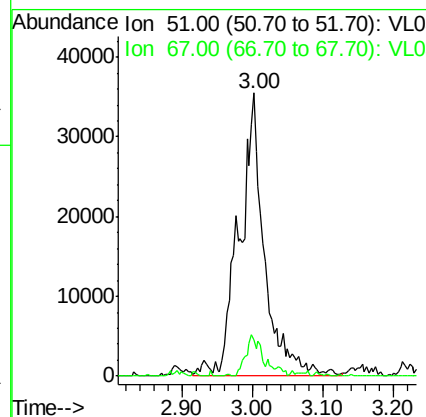
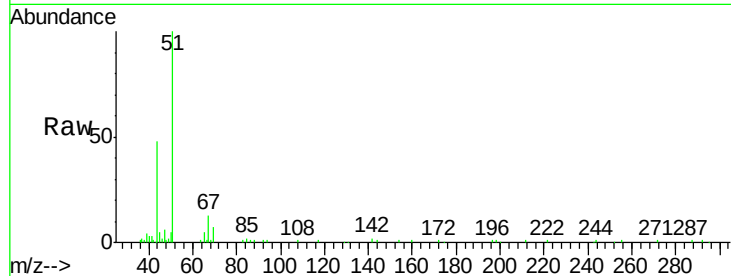
#3
Chlorodifluoromethane
Concen: 0.327 ppbv
RT: 3.00 min Scan# 67
Delta R.T. 0.02 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion	Ratio	Lower	Upper
51	100		
67	10.7	14.8	22.2#

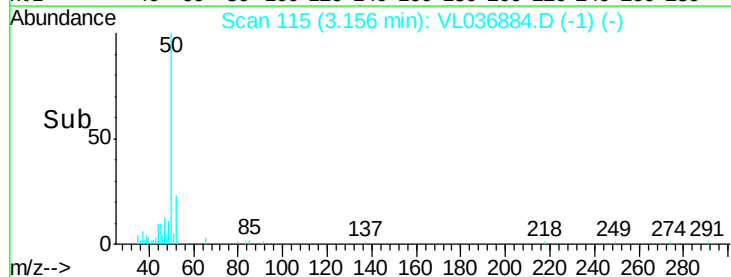
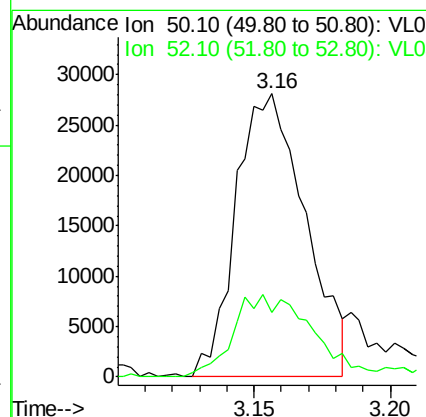
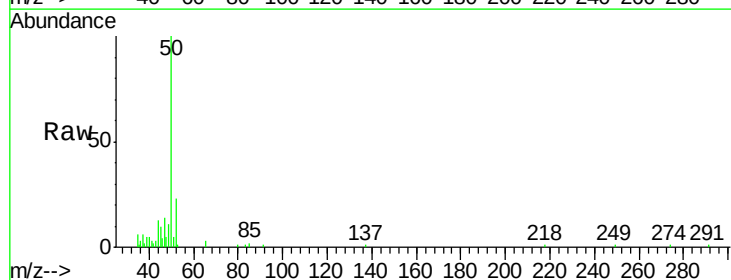
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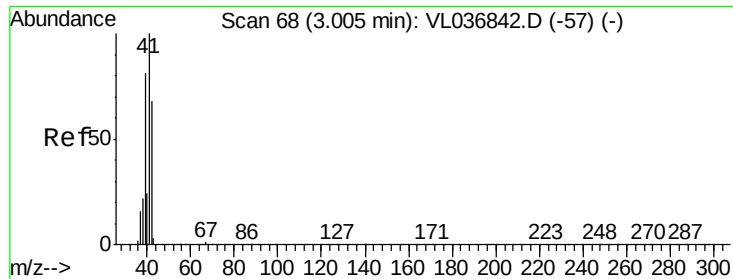
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#4
Chloromethane
Concen: 0.556 ppbv
RT: 3.16 min Scan# 115
Delta R.T. 0.02 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Tgt Ion	Ratio	Lower	Upper
50	100		
52	21.1	28.5	42.7#





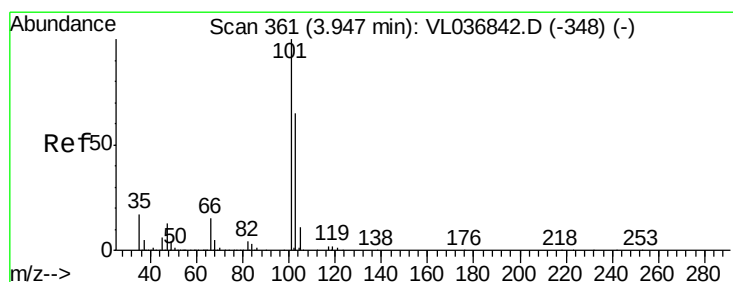
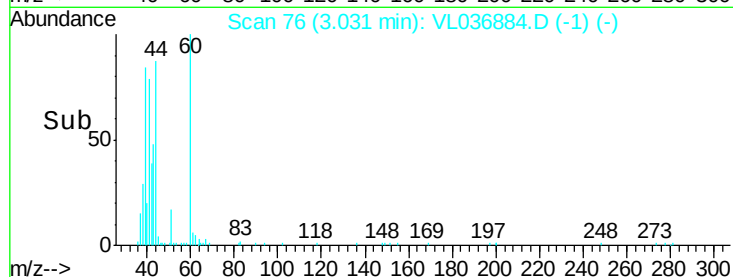
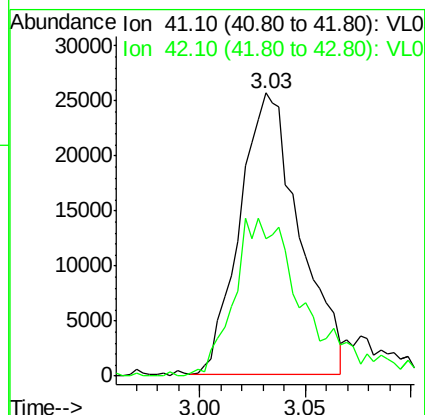
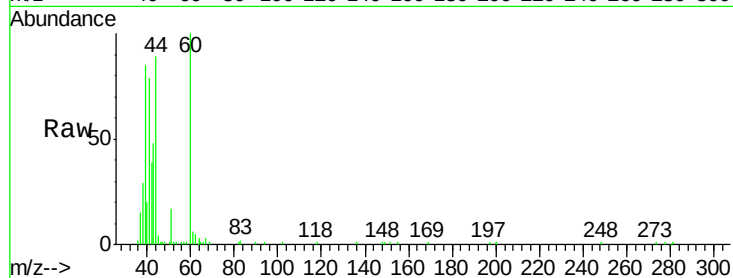
#9
 Propene
 Concen: 0.604 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. 0.03 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion: 41 Resp: 50145
 Ion Ratio Lower Upper
 41 100
 42 69.8 56.0 84.0

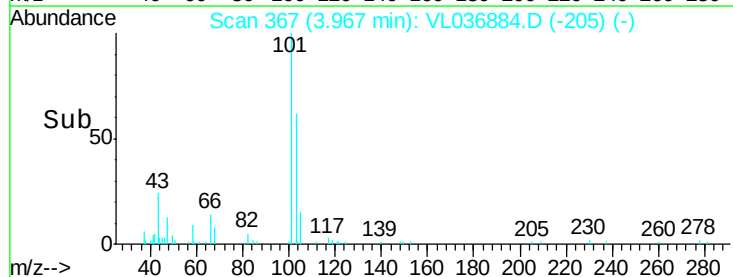
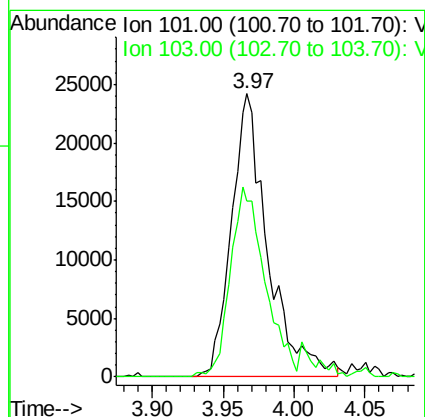
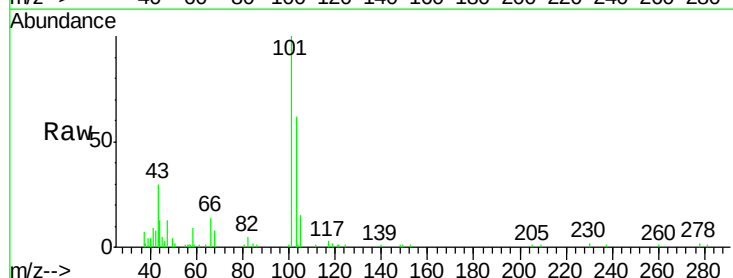
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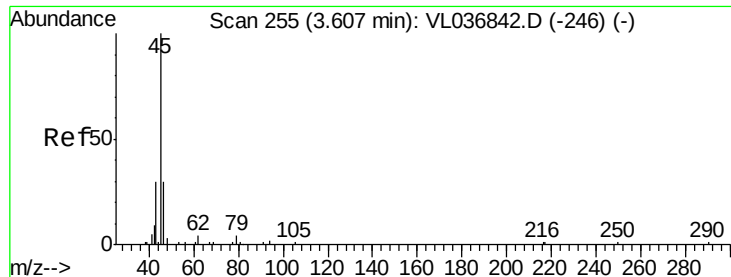
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#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv m
 RT: 3.97 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

Tgt Ion: 101 Resp: 43181
 Ion Ratio Lower Upper
 101 100
 103 62.1 51.6 77.4





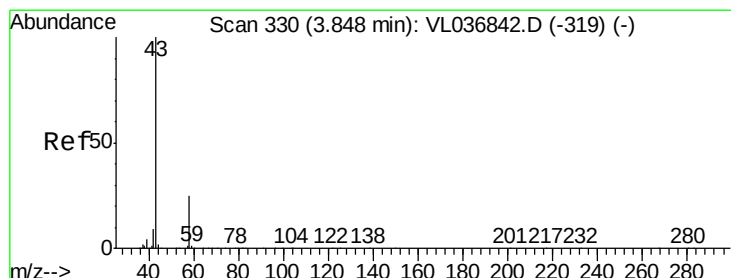
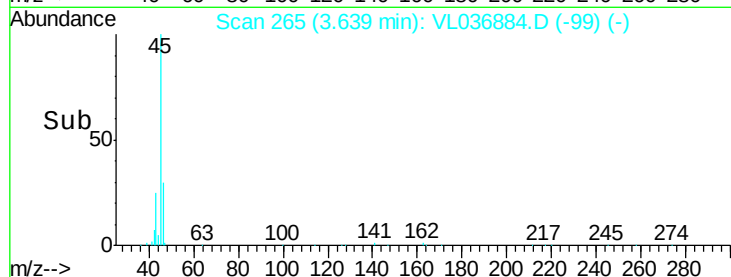
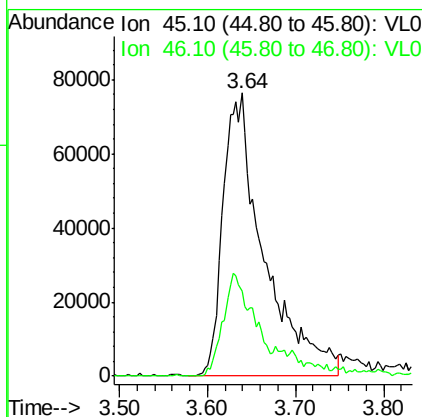
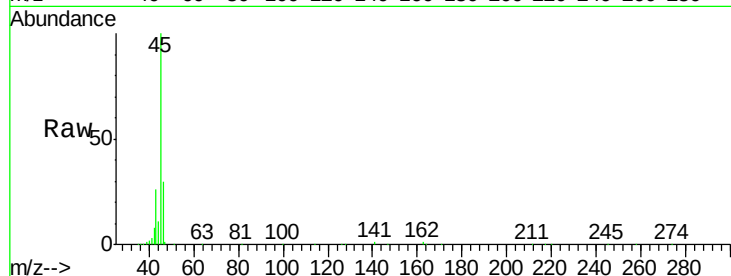
#13
Ethanol
Concen: 23.354 ppbv m
RT: 3.64 min Scan# 265
Delta R.T. 0.03 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	45	Resp	247094
Ion Ratio	100	Lower	Upper
46	35.7	16.8	67.4

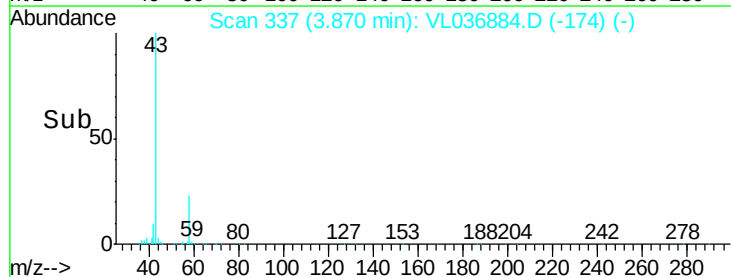
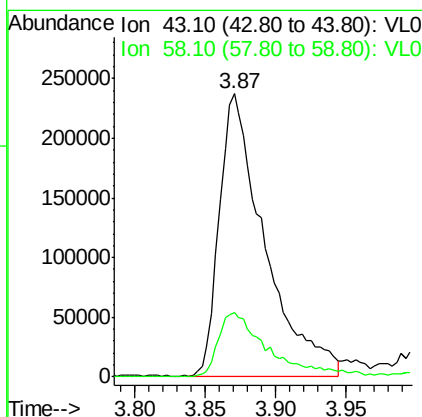
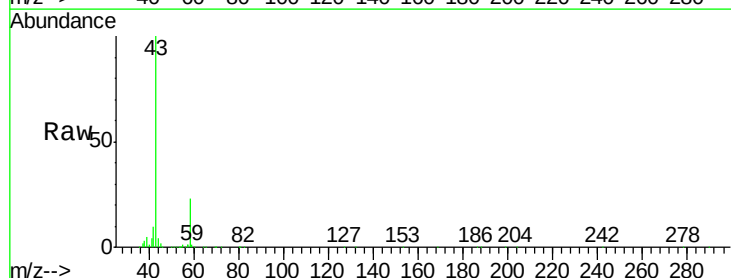
Manual Integrations
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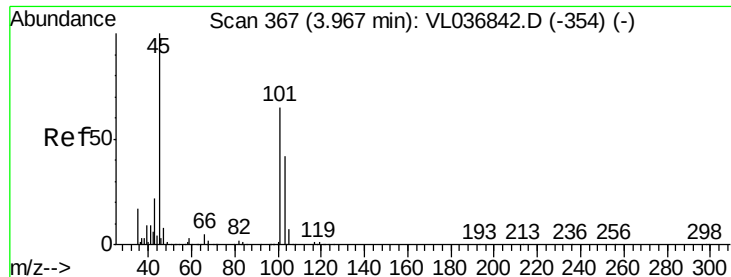
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#15
Acetone
Concen: 3.765 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Tgt Ion	43	Resp	530454
Ion Ratio	100	Lower	Upper
58	25.5	21.7	32.5





#19

Isopropyl Alcohol

Concen: 2.730 ppbv m

RT: 4.01 min Scan# 379

Delta R.T. 0.04 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Tot Ion: 45 Resp: 190571

Ion Ratio Lower Upper

45 100

58 2.9 2.8 4.2

Instrument :

MSVOA_L

ClientSampled :

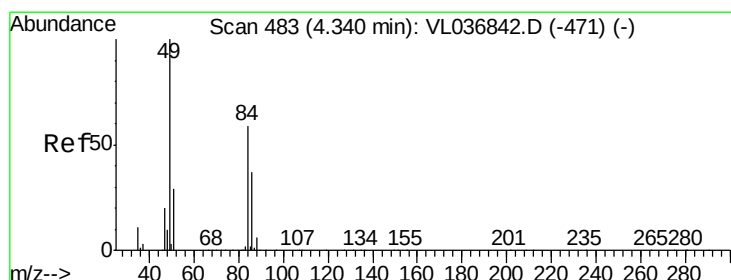
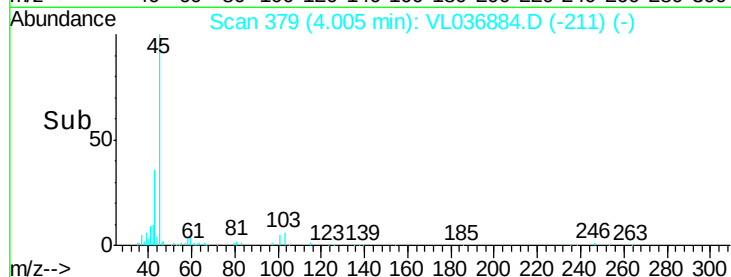
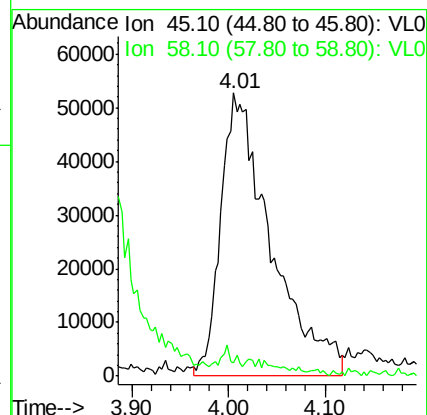
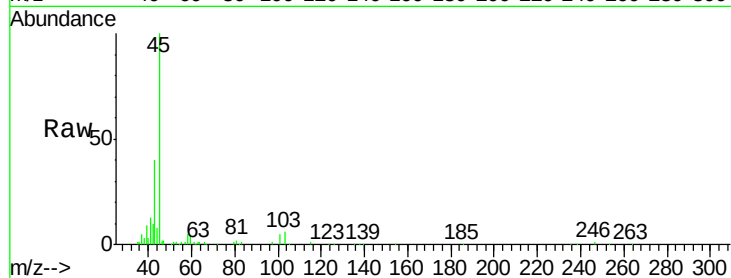
QA1

Manual Integrations

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#20

Methylene Chloride

Concen: 4.837 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Tgt Ion: 84 Resp: 325875

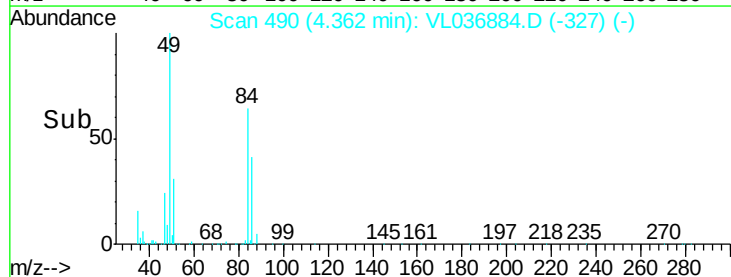
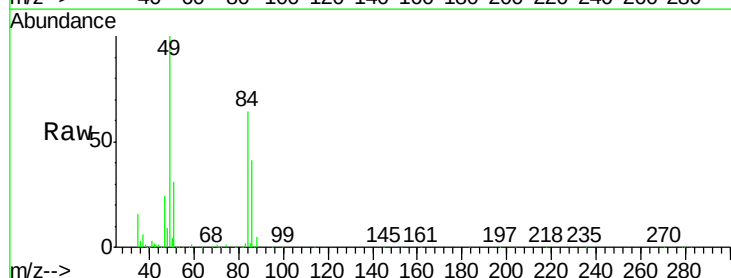
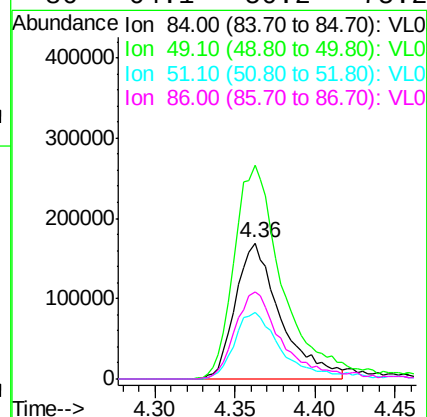
Ion Ratio Lower Upper

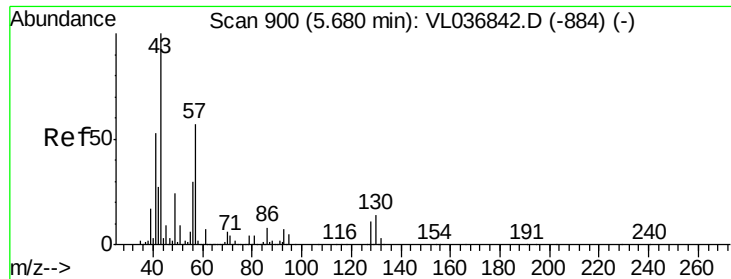
84 100

49 157.1 135.4 203.0

51 48.7 39.3 58.9

86 64.1 50.2 75.2





#26

Hexane

Concen: 1.466 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.03 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

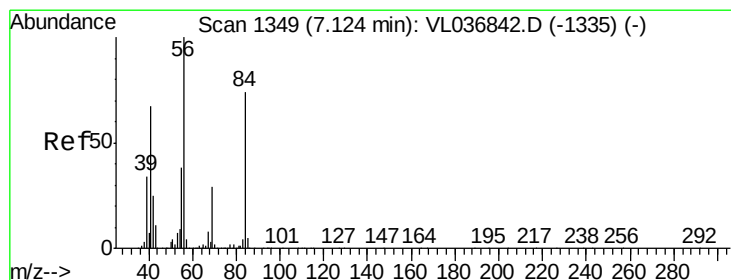
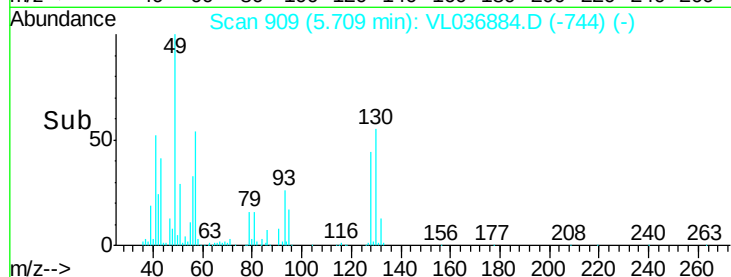
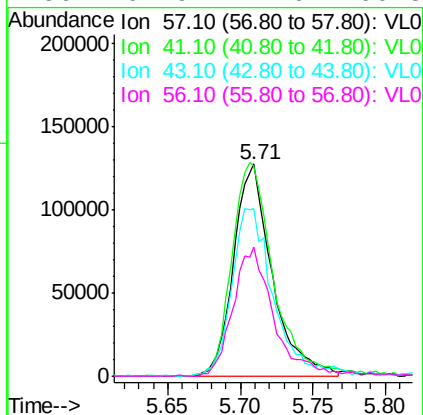
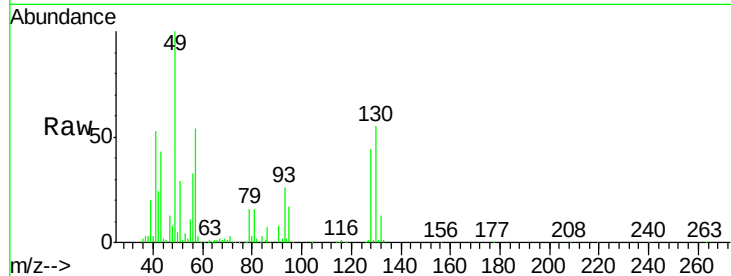
ClientSampleId :

QA1

Tot Ion	57	Resp	235992
Ion Ratio	Lower	Upper	
57	100		
41	109.2	77.7	116.5
43	86.7	180.5	270.7#
56	64.9	44.6	66.8

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#30

Cyclohexane

Concen: 0.278 ppbv m

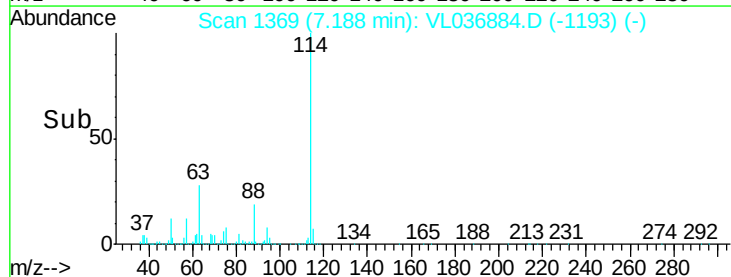
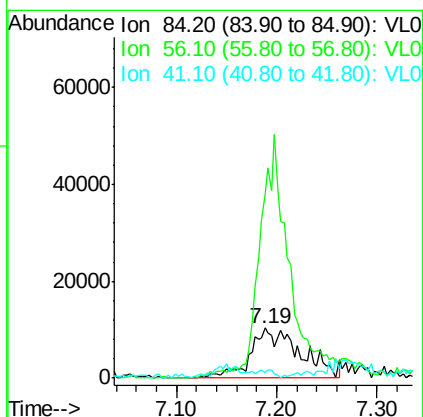
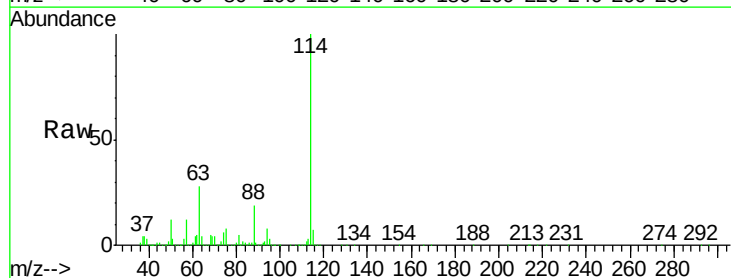
RT: 7.19 min Scan# 1369

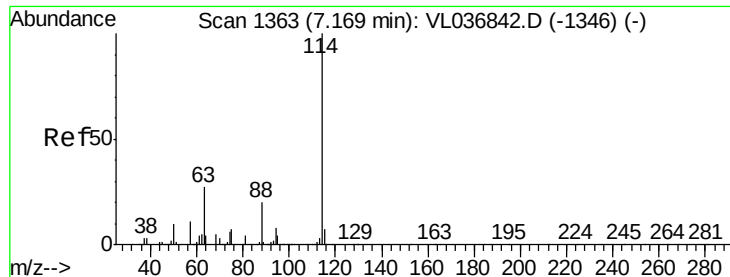
Delta R.T. 0.06 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Tgt Ion	84	Resp	35512
Ion Ratio	Lower	Upper	
84	100		
56	0.0	115.8	173.6#
41	13.6	74.6	111.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. 0.03 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion:114 Resp: 3349772

Ion Ratio Lower Upper

114 100

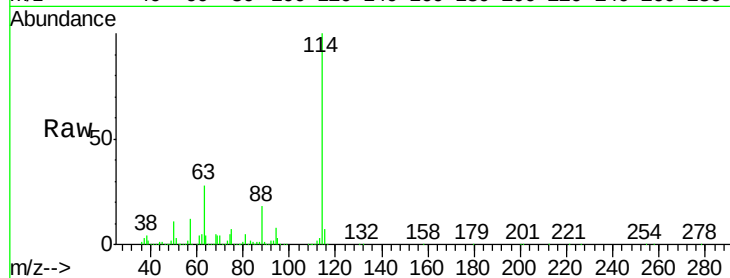
63 27.9 21.9 32.9

88 19.0 15.1 22.7

Manual Integrations
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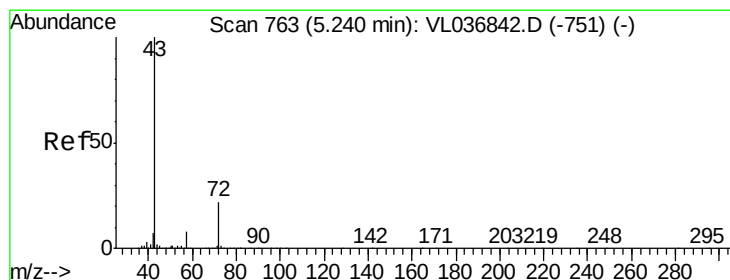
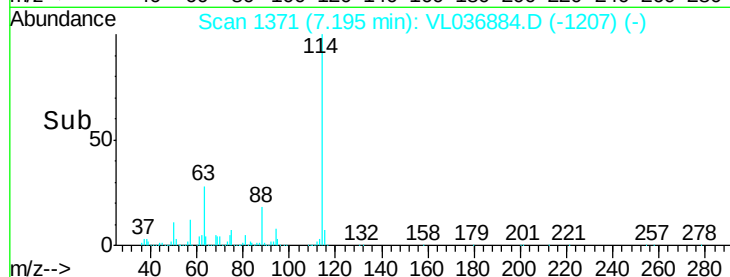
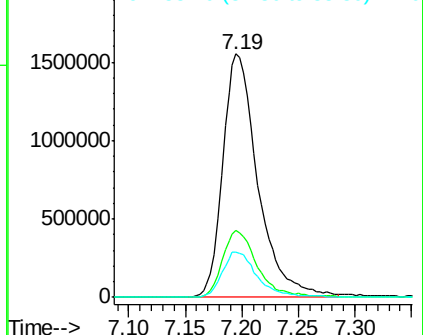
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.212 ppbv m

RT: 5.27 min Scan# 772

Delta R.T. 0.03 min

Lab File: VL036884.D

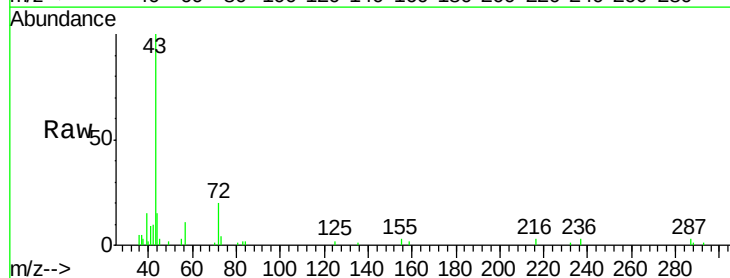
Acq: 28 Apr 2021 18:02

Tgt Ion: 43 Resp: 31169

Ion Ratio Lower Upper

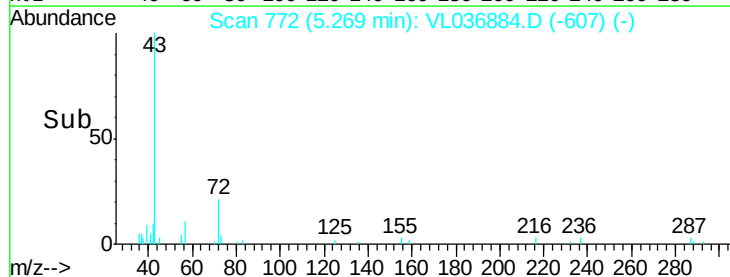
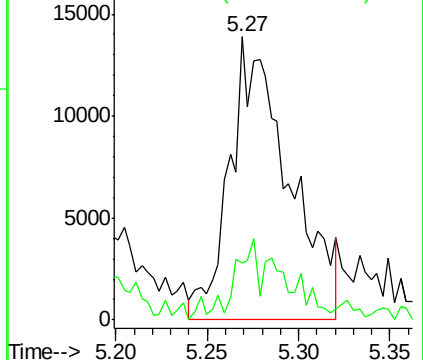
43 100

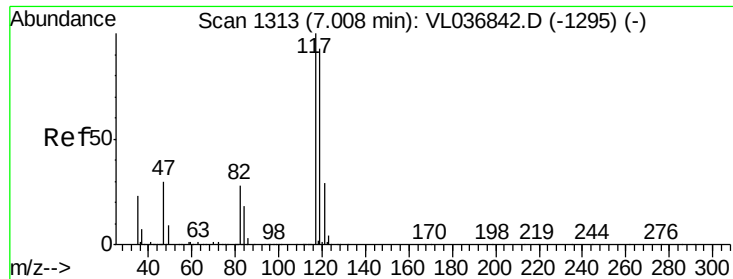
72 0.0 17.6 26.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.04 min Scan# 1324

Delta R.T. 0.04 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

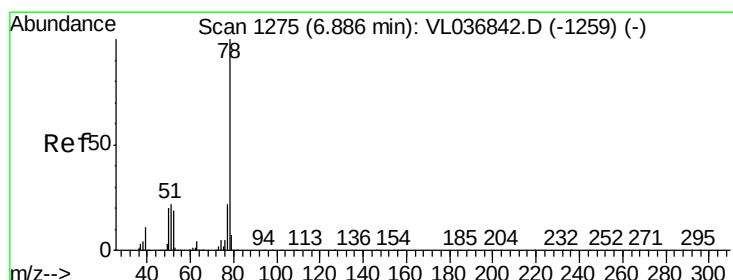
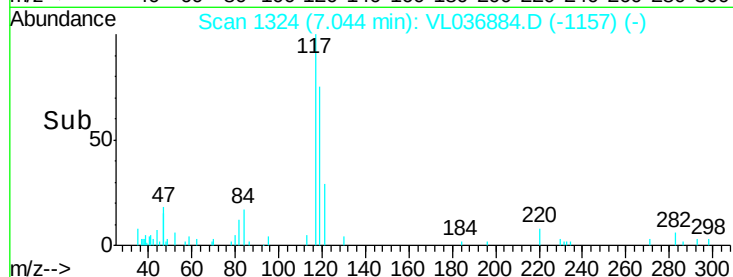
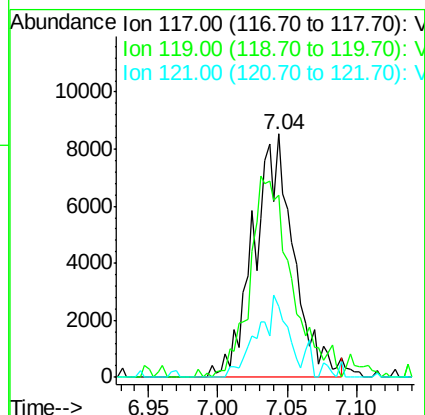
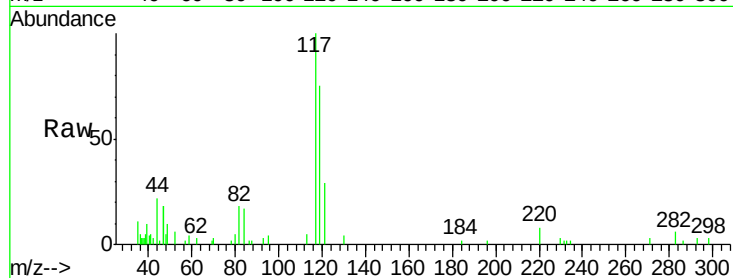
ClientSampled :

QA1

Tot Ion:	117	Resp:	17157
Ion Ratio	Lower	Upper	
117	100		
119	74.8	74.6	111.8
121	28.9	23.3	34.9

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#36

Benzene

Concen: 0.148 ppbv

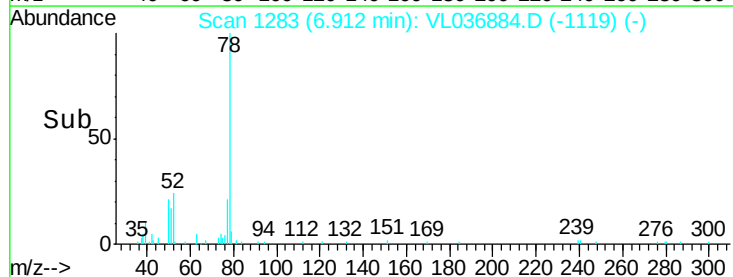
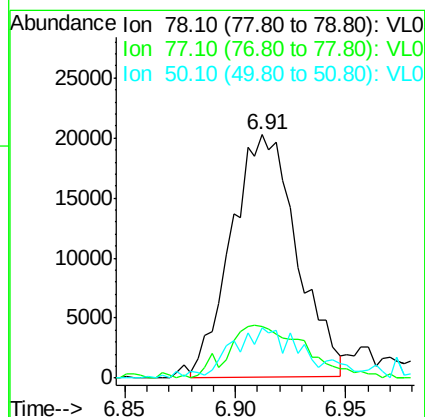
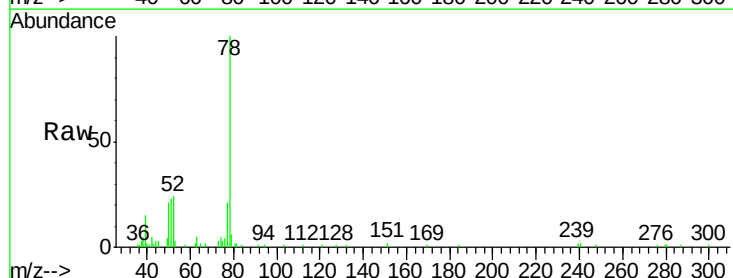
RT: 6.91 min Scan# 1283

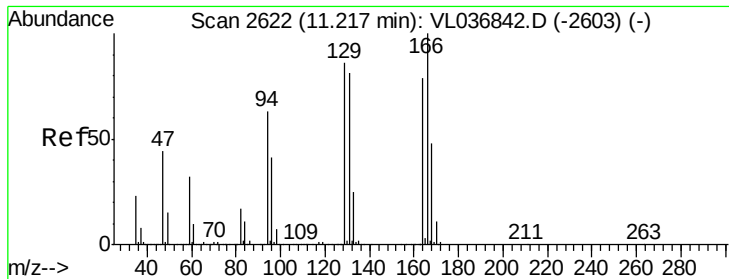
Delta R.T. 0.03 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Tgt Ion:	78	Resp:	41639
Ion Ratio	Lower	Upper	
78	100		
77	21.6	17.6	26.4
50	18.4	16.3	24.5





#52

Tetrachloroethene

Concen: 0.032 ppbv m

RT: 11.23 min Scan# 2627

Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion:164 Resp: 3085

Ion Ratio Lower Upper

164 100

166 38.3 100.9 151.3#

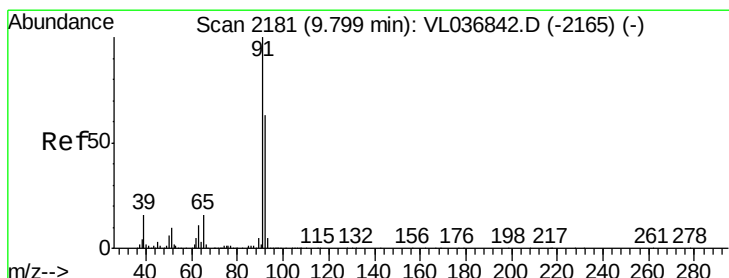
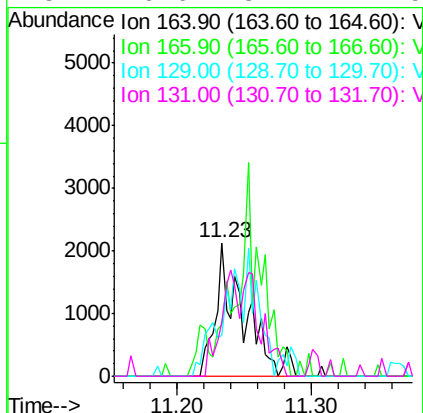
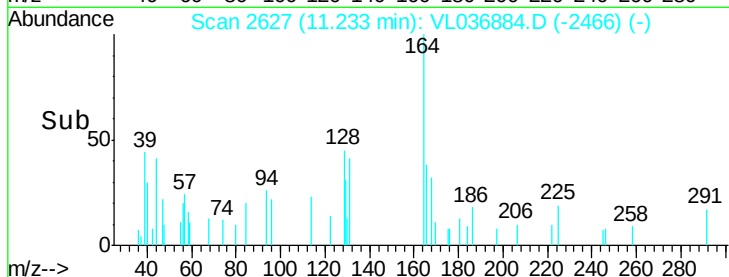
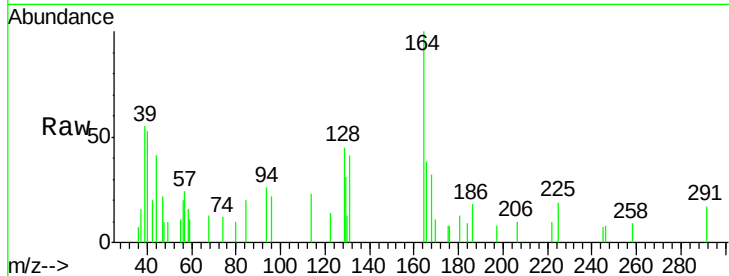
129 30.8 87.0 130.4#

131 40.6 81.7 122.5#

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#53

Toluene

Concen: 0.278 ppbv m

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036884.D

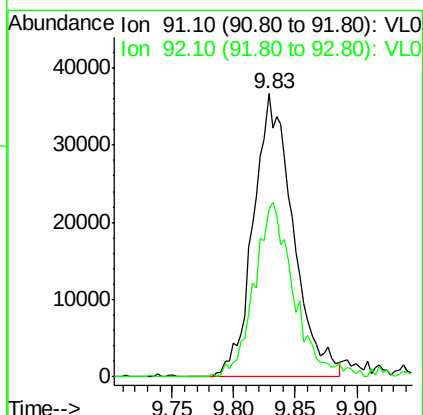
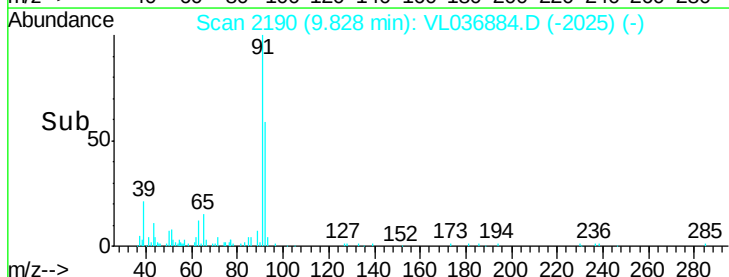
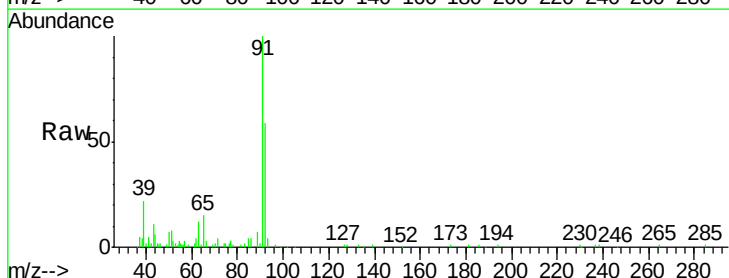
Acq: 28 Apr 2021 18:02

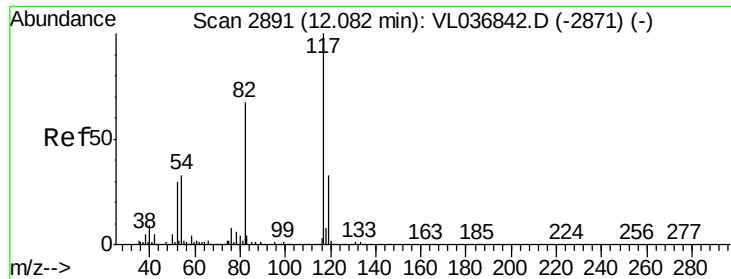
Tgt Ion: 91 Resp: 82015

Ion Ratio Lower Upper

91 100

92 62.7 49.0 73.4





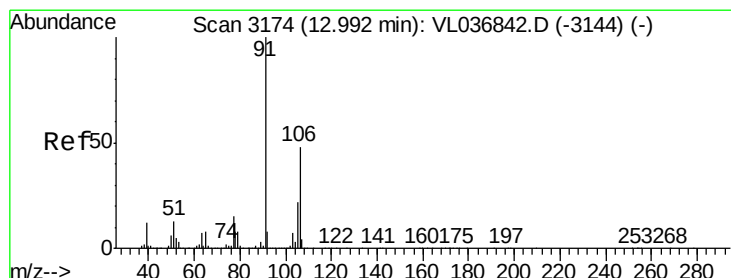
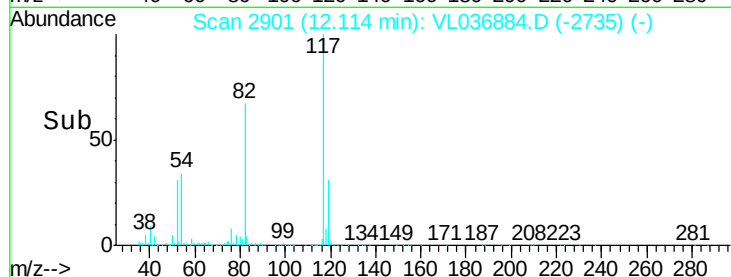
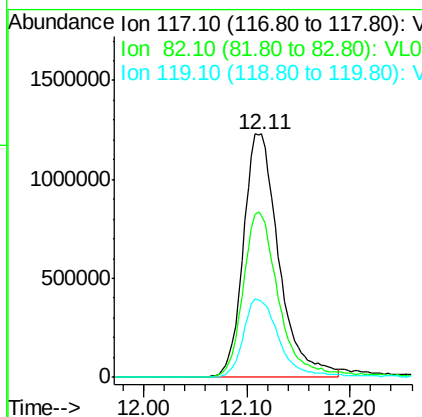
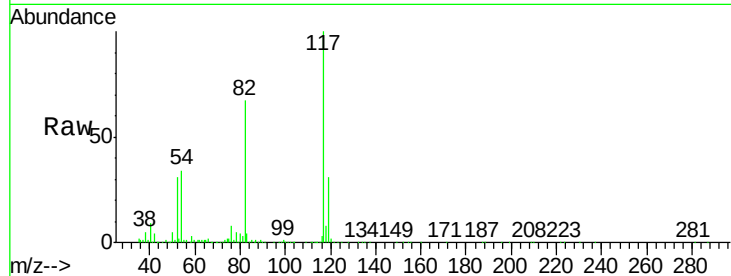
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.03 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion:117 Resp: 2942773
Ion Ratio Lower Upper
117 100
82 69.9 53.5 80.3
119 34.0 25.6 38.4

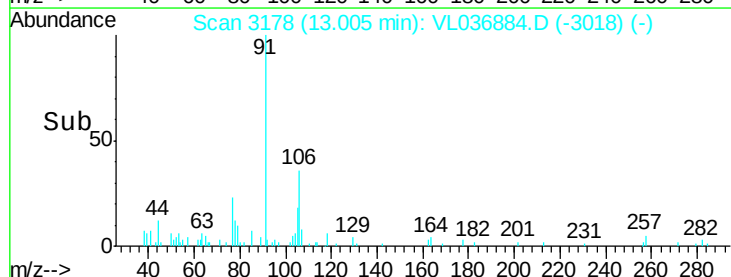
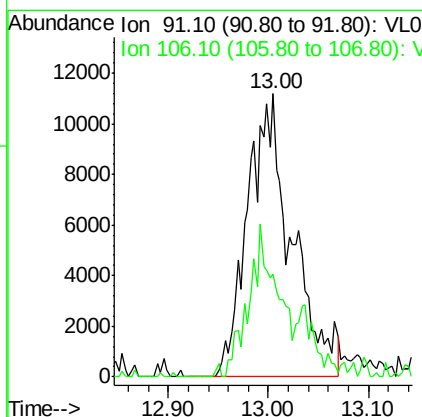
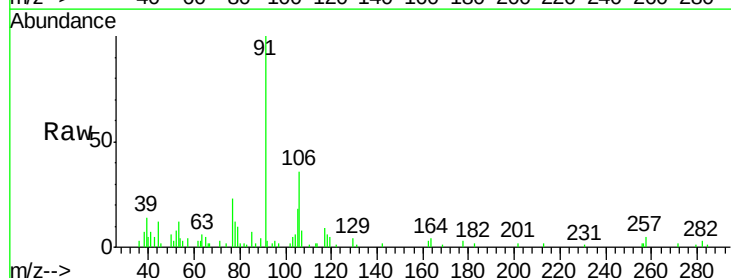
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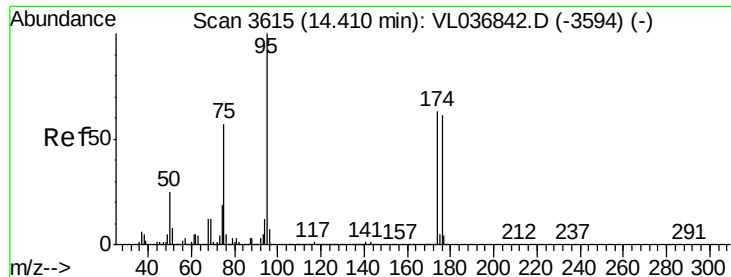
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#59
m/p-Xylene
Concen: 0.103 ppbv m
RT: 13.00 min Scan# 3178
Delta R.T. 0.01 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Tgt Ion: 91 Resp: 34320
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.633 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. 0.03 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion	Ratio	Lower	Upper
95	100		
174	68.9	52.2	78.2
175	4.5	4.0	6.0

Manual Integrations
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