

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037679.D
 Acq On : 27 Sep 2021 14:04
 Operator : SY/AP
 Sample : M3949-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9BDUP

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:04:55 AM

Quant Time: Sep 28 20:02:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1483046	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4198823	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3681775	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2580727	9.70	ppbv	0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	40986m	0.153	ppbv	
4) Chloromethane	3.15	50	86322	0.835	ppbv	89
9) Propene	3.02	41	35402	0.359	ppbv #	78
11) Trichlorofluoromethane	3.95	101	46311m	0.215	ppbv	
13) Ethanol	3.60	45	3037864	314.747	ppbv	90
15) Acetone	3.85	43	2309008	14.985	ppbv	93
19) Isopropyl Alcohol	3.97	45	3419197	40.783	ppbv #	96
20) Methylene Chloride	4.35	84	525848	7.148	ppbv	92
26) Hexane	5.69	57	1446740	8.161	ppbv #	47
29) Chloroform	5.75	83	54183m	0.209	ppbv	
34) 2-Butanone	5.25	43	235880	1.382	ppbv #	87
35) Carbon Tetrachloride	7.02	117	14767m	0.062	ppbv	
36) Benzene	6.89	78	55464m	0.158	ppbv	
38) Trichloroethene	7.84	130	30373m	0.208	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	56460	0.096	ppbv #	67
52) Tetrachloroethene	11.22	164	70506m	0.525	ppbv	
53) Toluene	9.81	91	132461	0.340	ppbv	98
59) m/p-Xylene	12.96	91	82515m	0.194	ppbv	

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

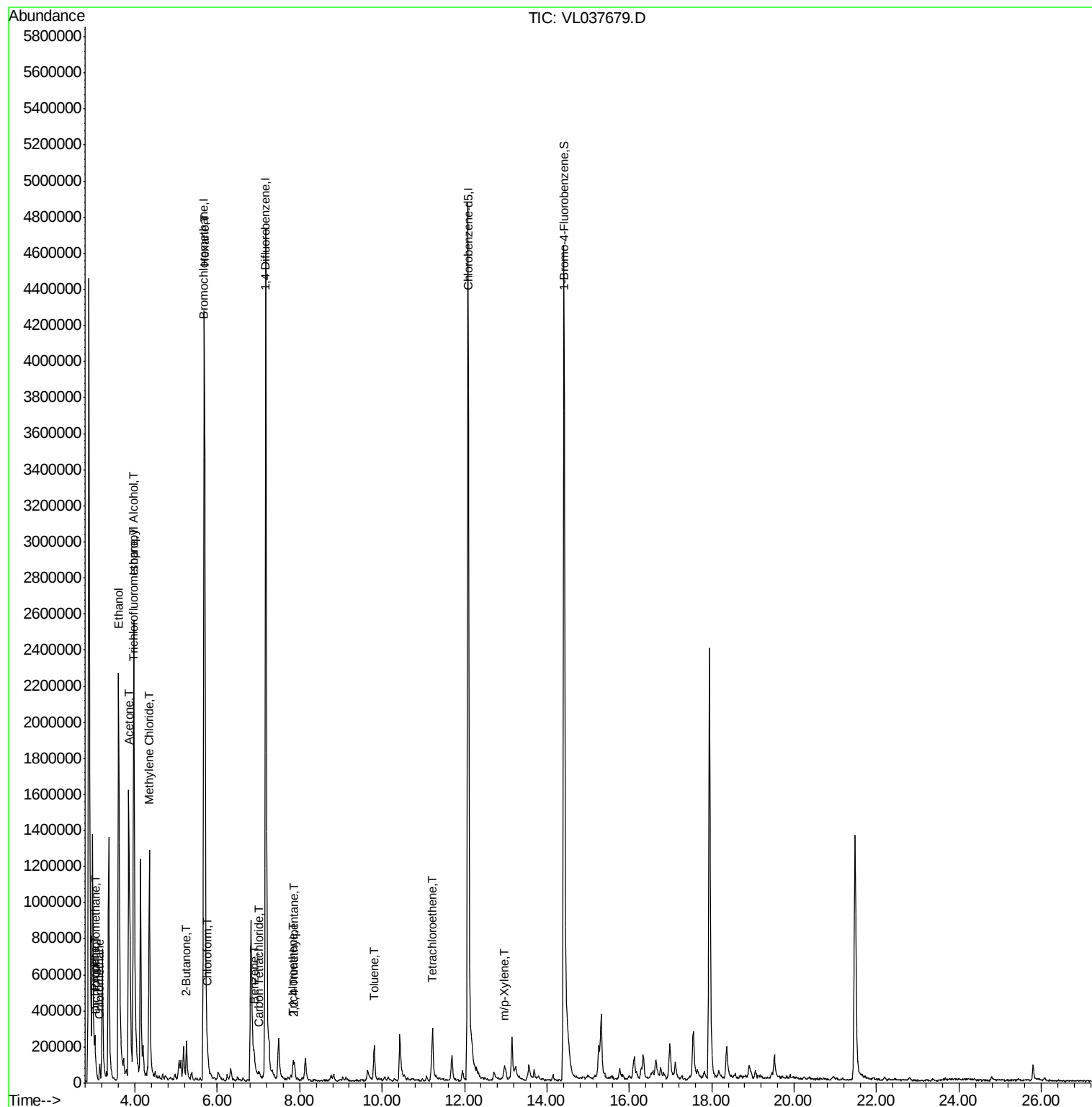
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037679.D
Acq On : 27 Sep 2021 14:04
Operator : SY/AP
Sample : M3949-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

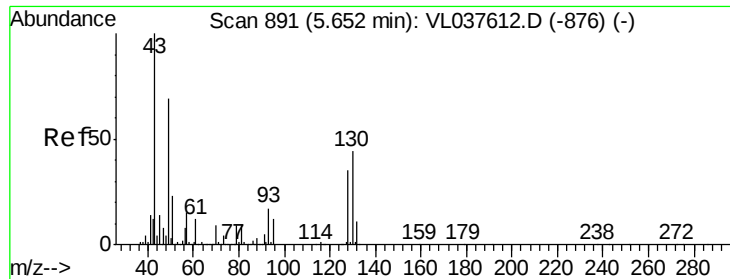
Instrument :
MSVOA_L
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Quant Time: Sep 28 20:02:18 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
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QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-9BDUP

Tgt Ion: 49 Resp: 1483046

Ion Ratio Lower Upper

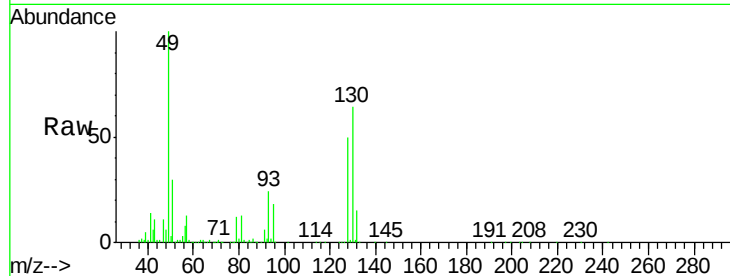
49 100

128 52.9 27.9 83.6

130 68.0 33.9 101.7

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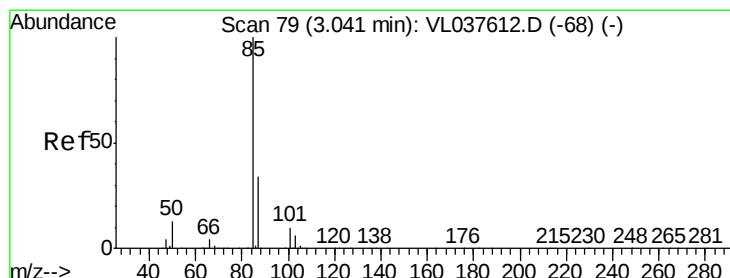
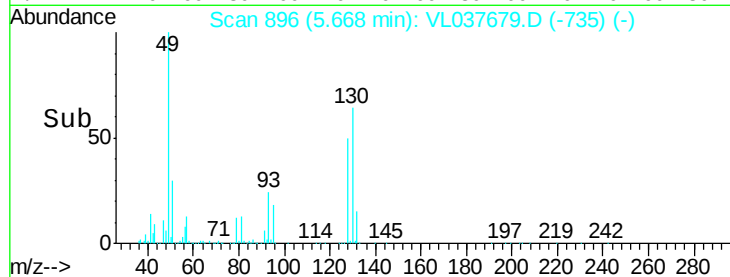
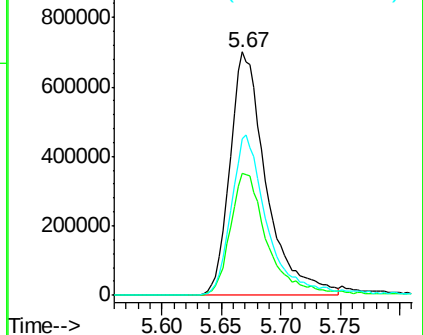
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.153 ppbv m

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL037679.D

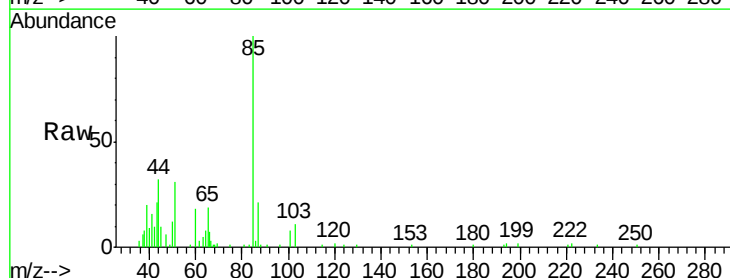
Acq: 27 Sep 2021 14:04

Tgt Ion: 85 Resp: 40986

Ion Ratio Lower Upper

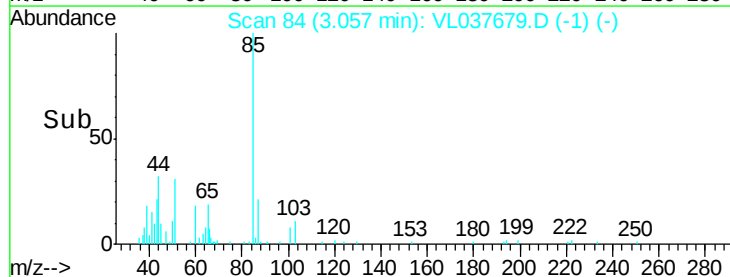
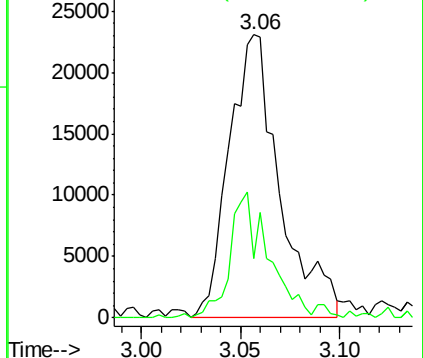
85 100

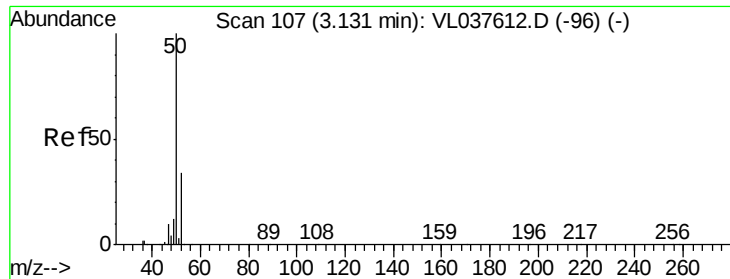
87 21.0 26.8 40.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.835 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-9BDUP

Tgt Ion: 50 Resp: 86322

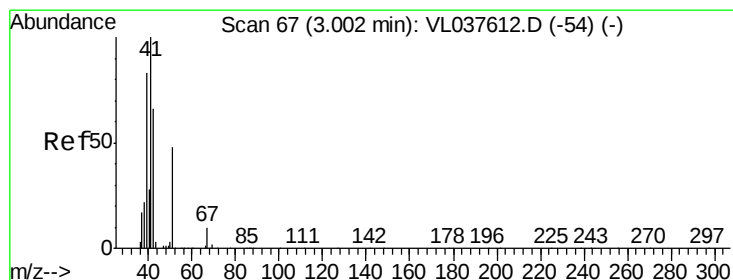
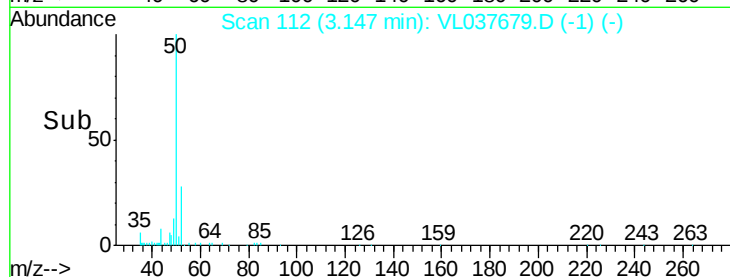
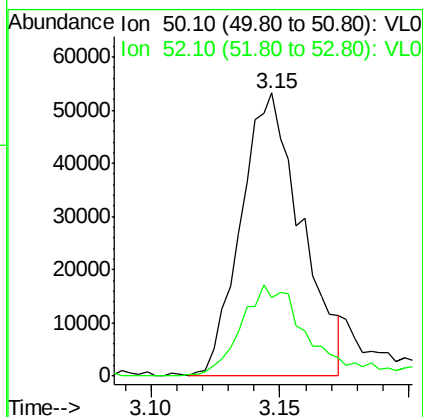
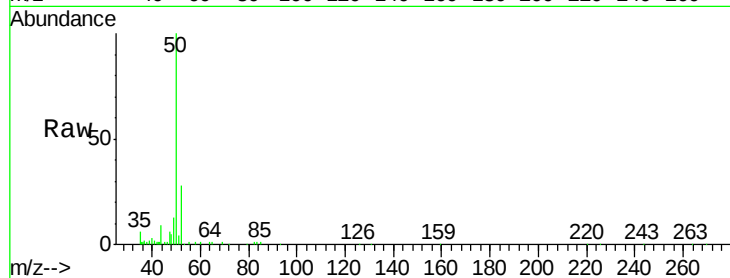
Ion Ratio Lower Upper

50 100

52 27.3 27.1 40.7

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#9

Propene

Concen: 0.359 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL037679.D

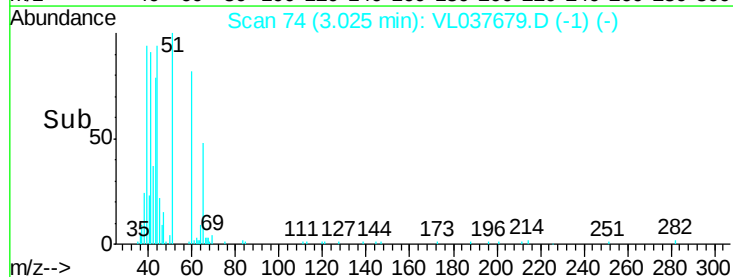
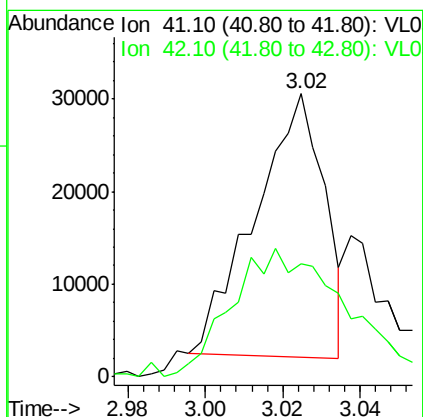
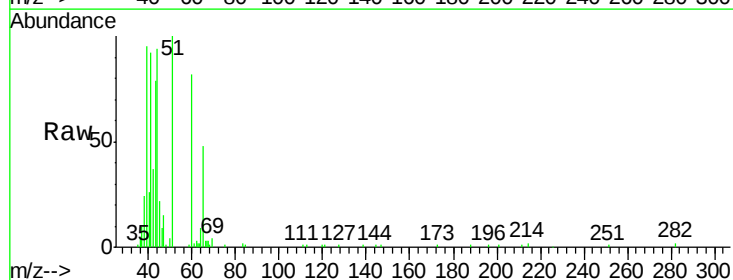
Acq: 27 Sep 2021 14:04

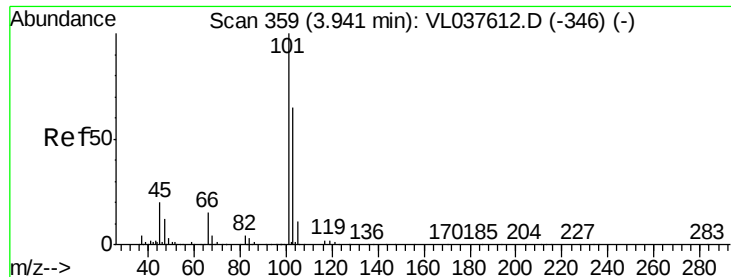
Tgt Ion: 41 Resp: 35402

Ion Ratio Lower Upper

41 100

42 89.9 57.2 85.8#





#11

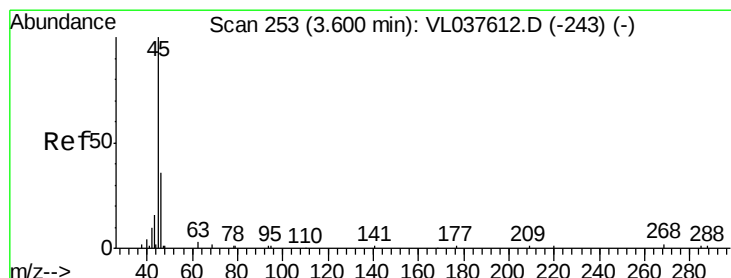
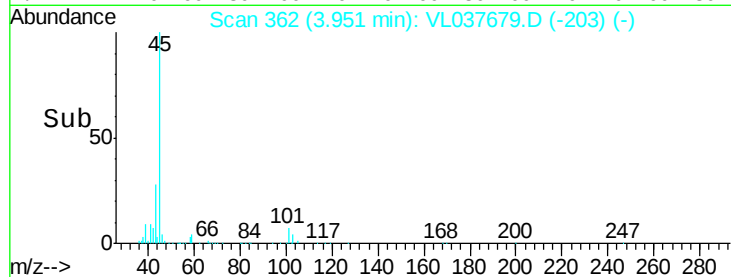
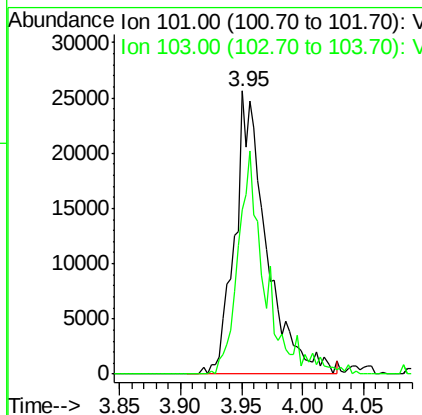
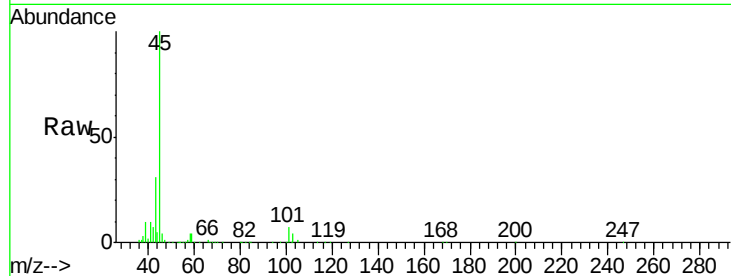
Trichlorofluoromethane
Concen: 0.215 ppbv m
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-9BDUP

Tgt Ion	Ratio	Lower	Upper
101	100		
103	58.3	51.9	77.9

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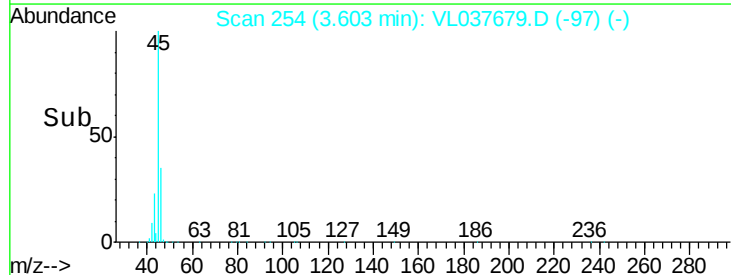
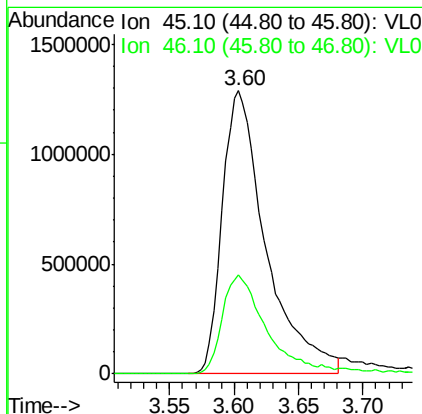
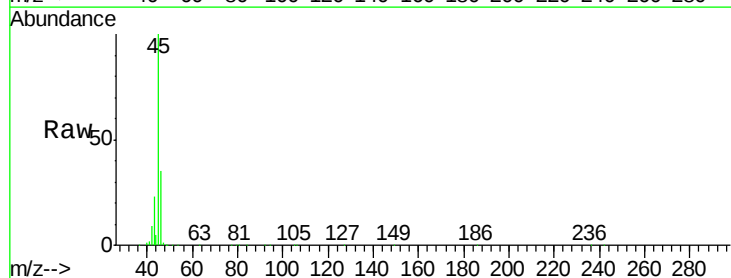
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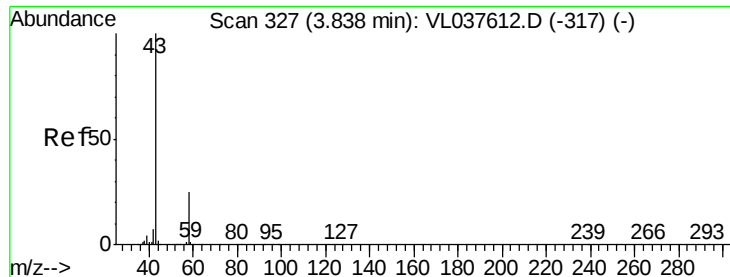


#13

Ethanol
Concen: 314.747 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.5	17.2	68.8





#15

Acetone

Concen: 14.985 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-9BDUP

Tgt Ion: 43 Resp: 2309008

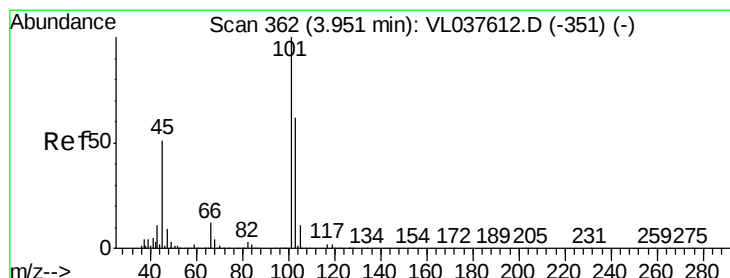
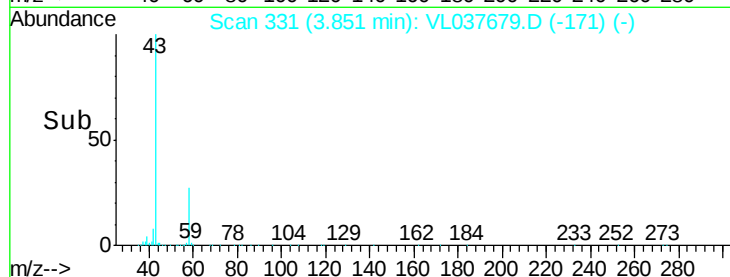
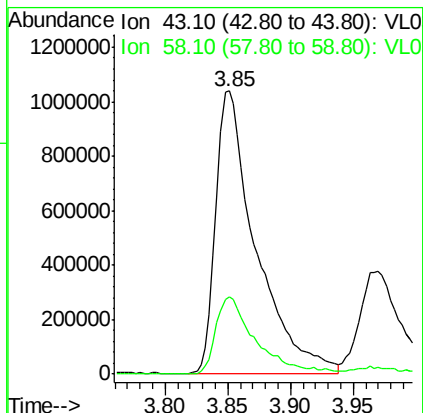
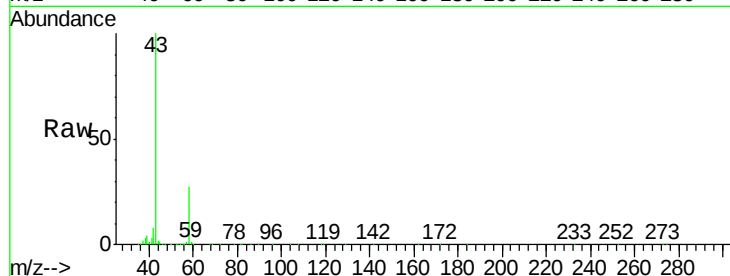
Ion Ratio Lower Upper

43 100

58 27.1 24.9 37.3

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10/1/2021 11:04:55 AM



#19

Isopropyl Alcohol

Concen: 40.783 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL037679.D

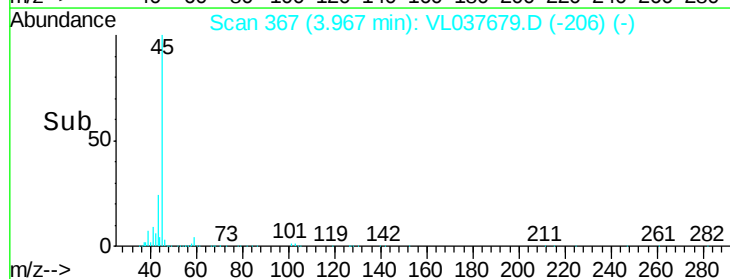
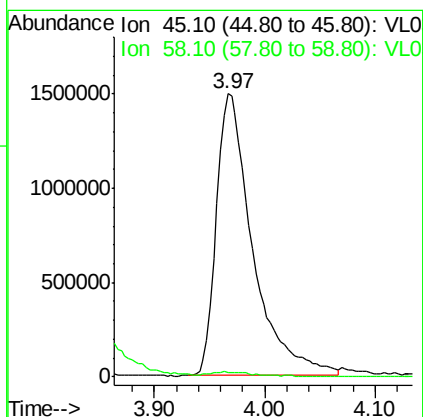
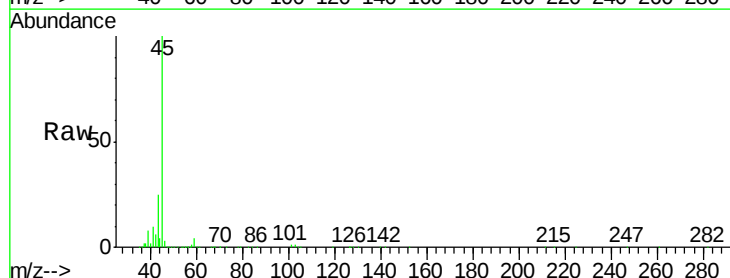
Acq: 27 Sep 2021 14:04

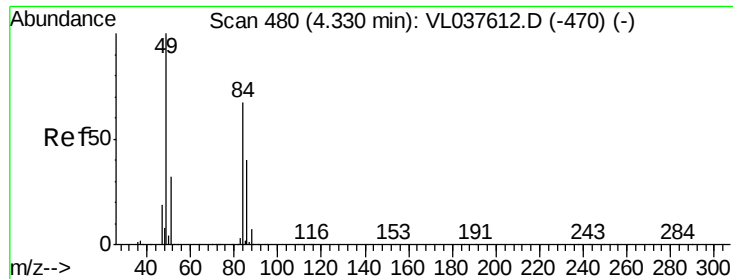
Tgt Ion: 45 Resp: 3419197

Ion Ratio Lower Upper

45 100

58 2.4 2.9 4.3#





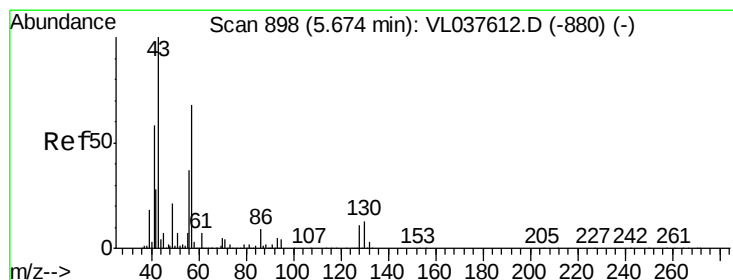
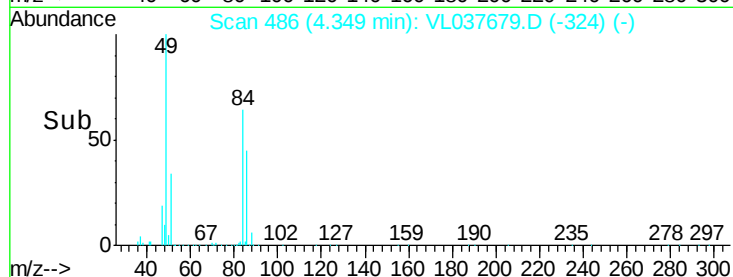
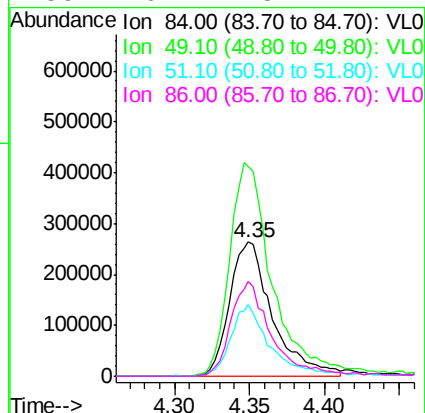
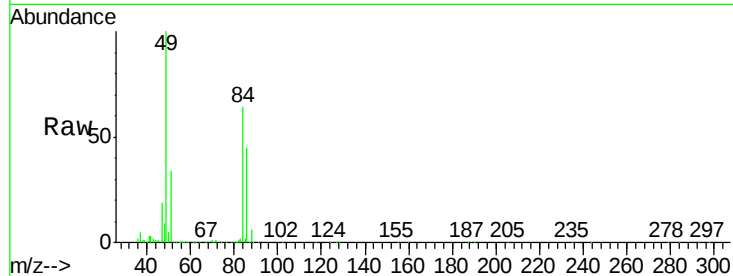
#20
Methylene Chloride
Concen: 7.148 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-9BDUP

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.1	120.0	180.0
51	53.6	38.0	57.0
86	70.2	48.2	72.2

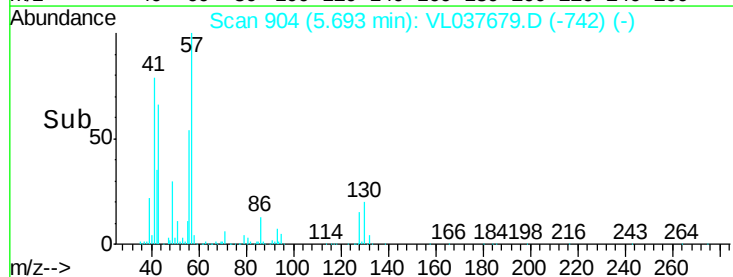
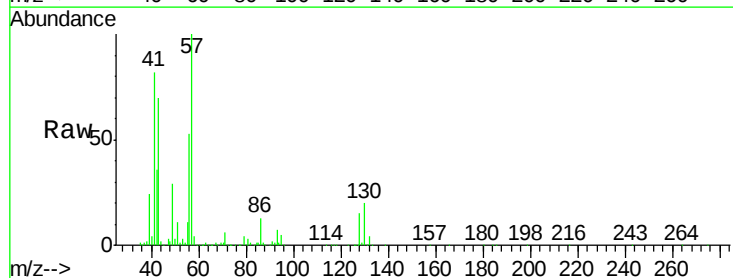
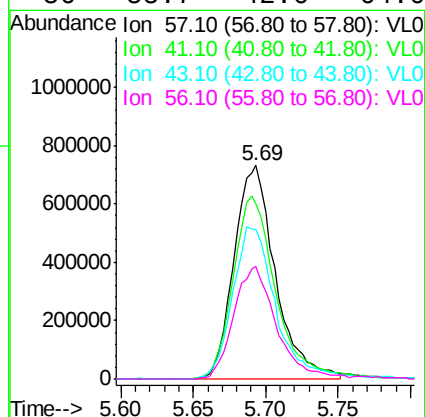
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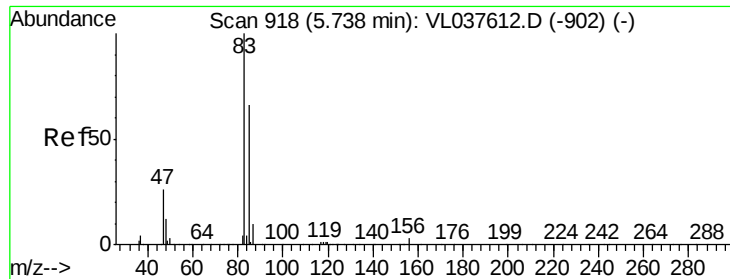
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#26
Hexane
Concen: 8.161 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.1	70.9	106.3
43	75.2	170.4	255.6#
56	55.7	42.6	64.0





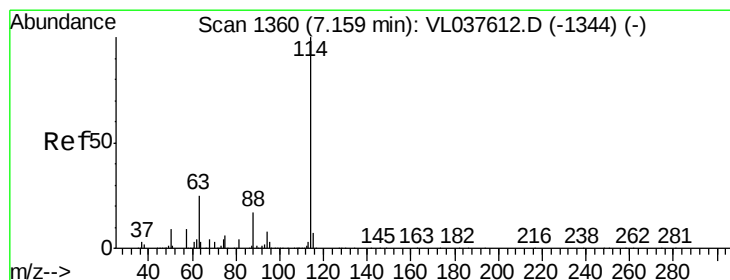
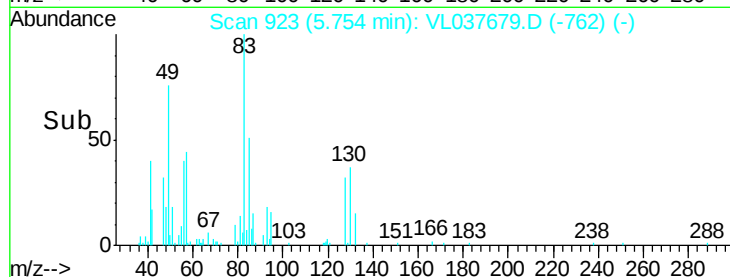
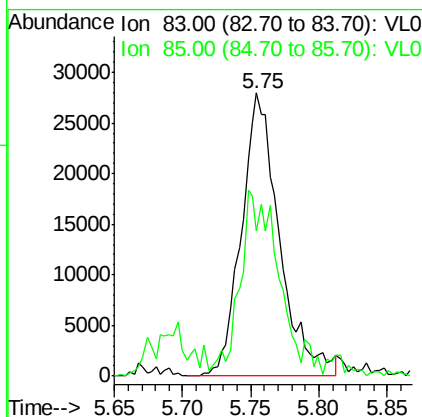
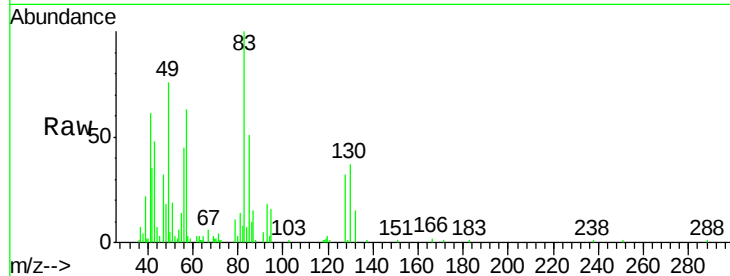
#29
Chloroform
Concen: 0.209 ppbv m
RT: 5.75 min Scan# 923
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-9BDUP

Tgt Ion: 83 Resp: 54183
Ion Ratio Lower Upper
83 100
85 51.3 52.6 79.0#

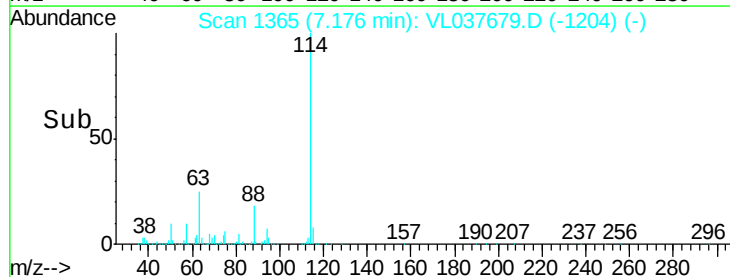
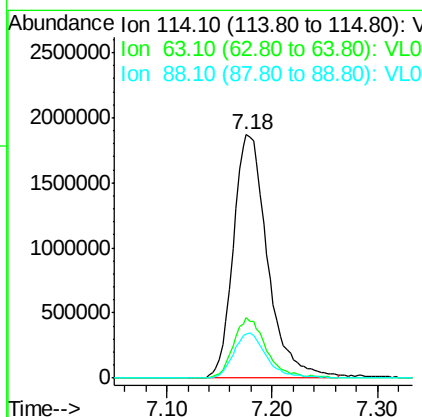
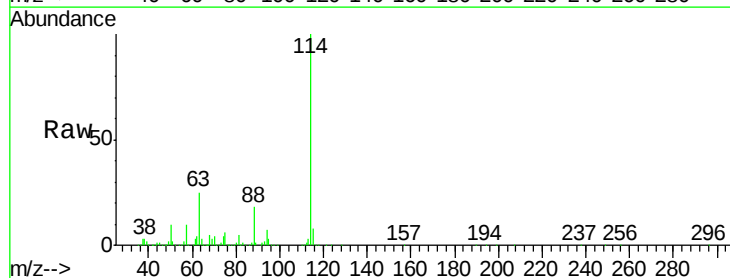
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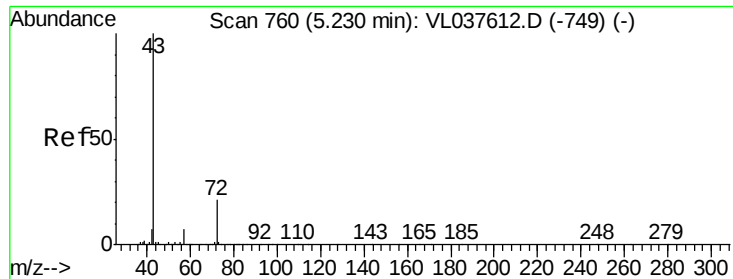
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Tgt Ion: 114 Resp: 4198823
Ion Ratio Lower Upper
114 100
63 24.4 19.6 29.4
88 18.0 14.2 21.4





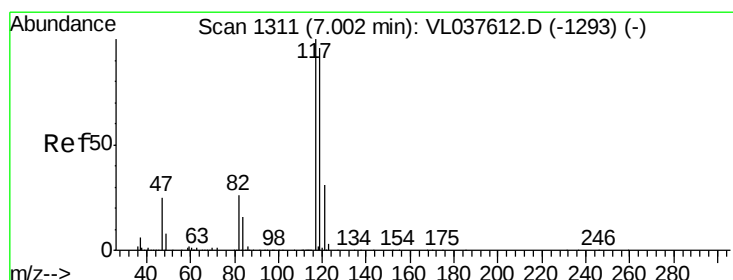
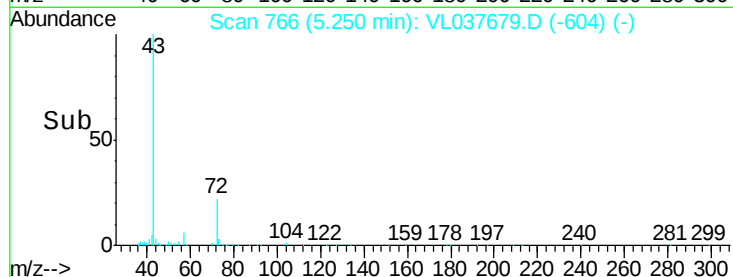
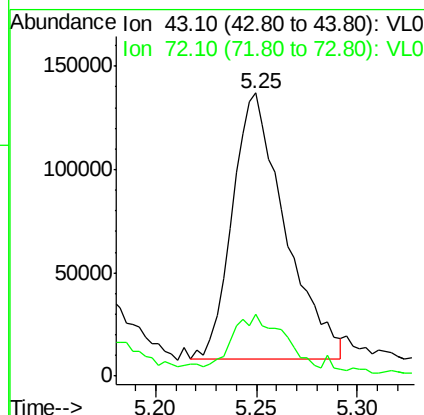
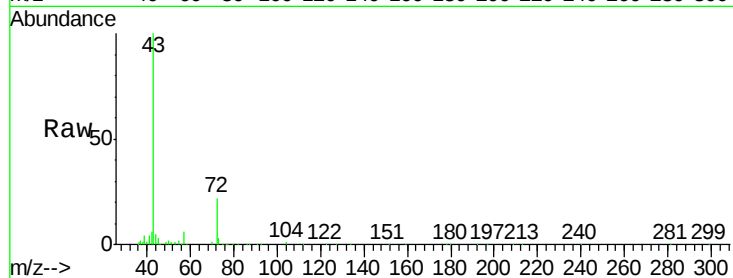
#34
2-Butanone
Concen: 1.382 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-9BDUP

Tgt Ion: 43 Resp: 235880
Ion Ratio Lower Upper
43 100
72 29.5 18.4 27.6#

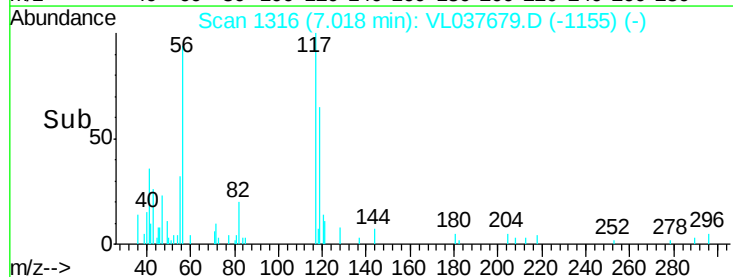
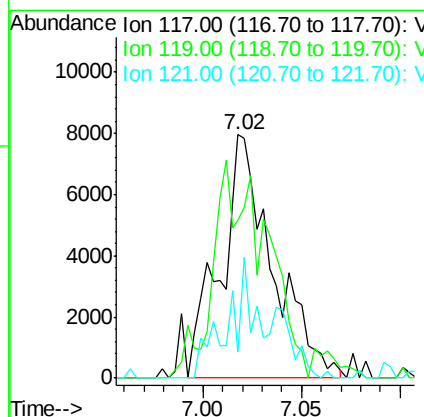
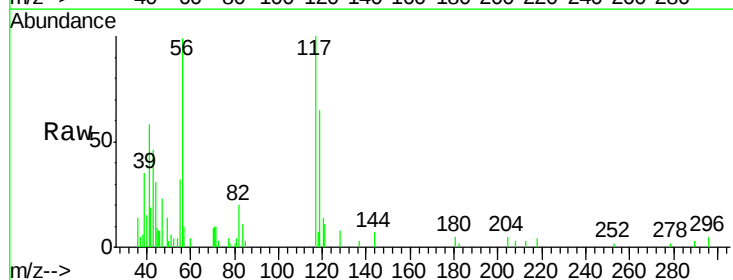
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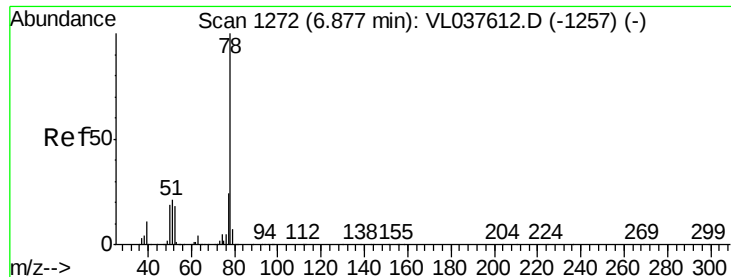
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#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Tgt Ion: 117 Resp: 14767
Ion Ratio Lower Upper
117 100
119 65.0 77.0 115.6#
121 10.8 24.5 36.7#





#36

Benzene

Concen: 0.158 ppbv m

RT: 6.89 min Scan# 1277

Delta R.T. 0.02 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

Instrument :

MSVOA_L

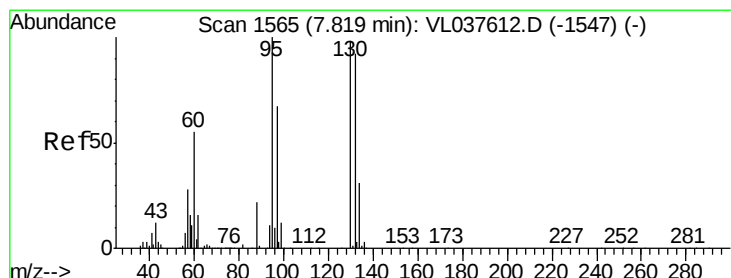
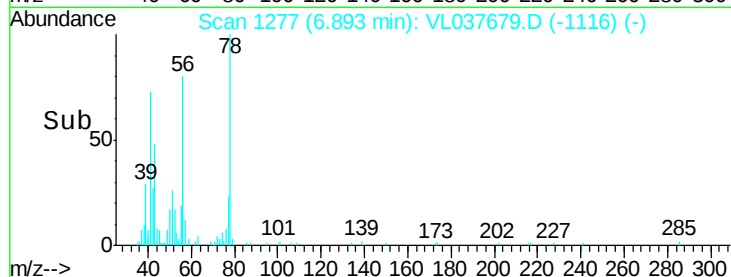
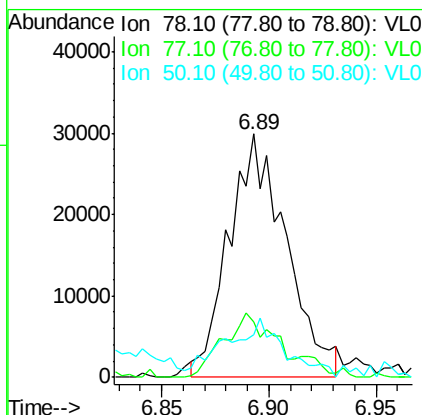
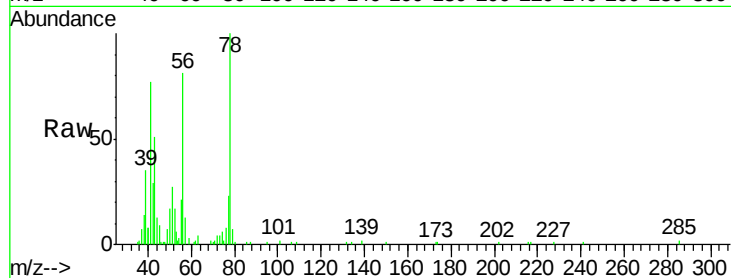
ClientSampleId :

IA-9BDUP

Tgt Ion:	78	Resp:	55464
Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.0	28.4
50	17.5	14.8	22.2

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#38

Trichloroethene

Concen: 0.208 ppbv m

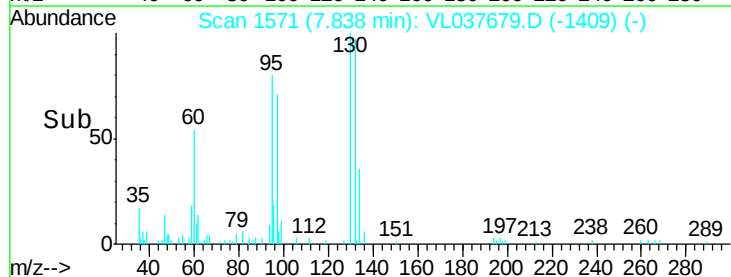
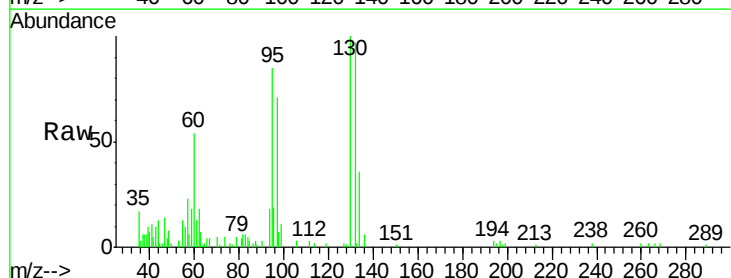
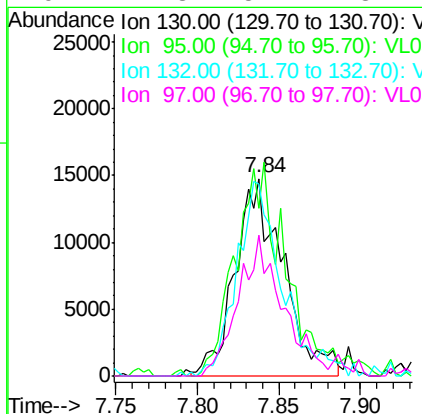
RT: 7.84 min Scan# 1571

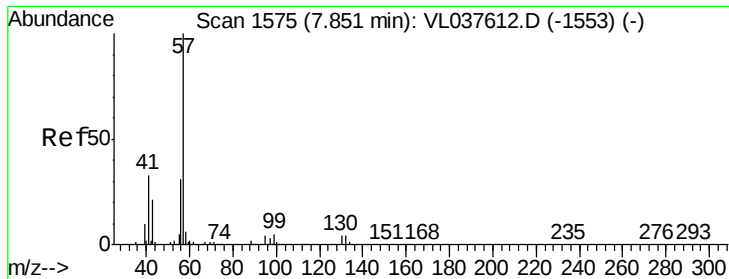
Delta R.T. 0.02 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

Tgt Ion:	130	Resp:	30373
Ion	Ratio	Lower	Upper
130	100		
95	84.6	81.8	122.6
132	97.0	75.3	112.9
97	71.3	54.7	82.1





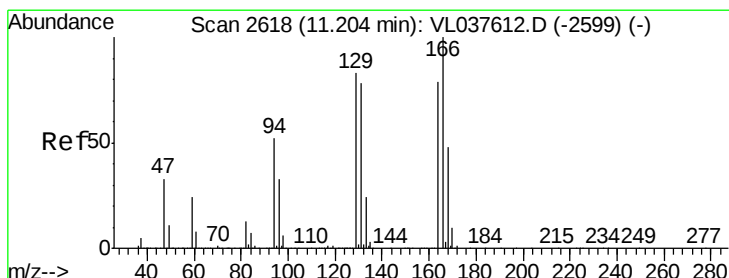
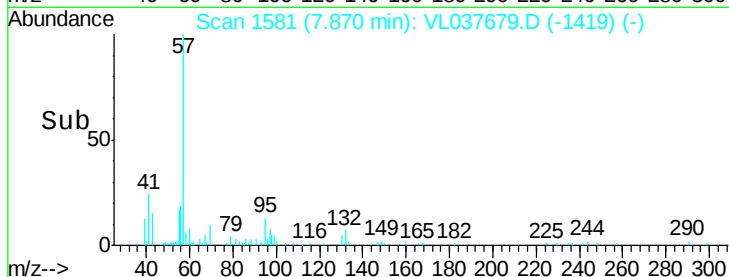
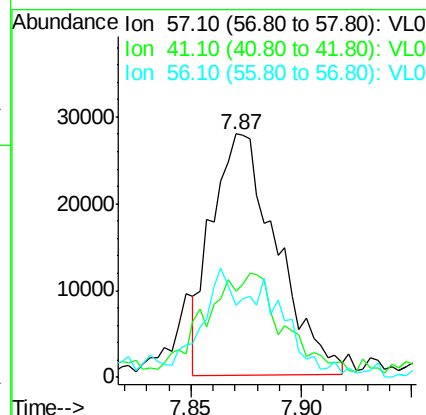
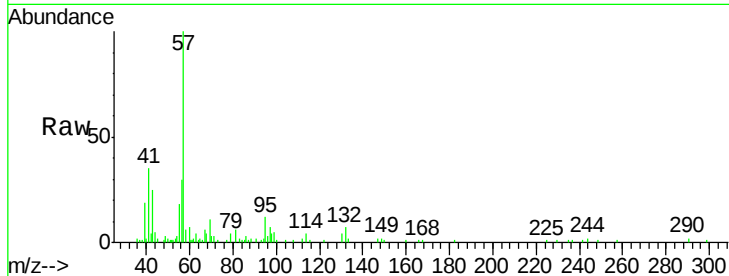
#44
2,2,4-Trimethylpentane
Concen: 0.096 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-9BDUP

Tgt Ion	Ratio	Lower	Upper
57	100		
41	50.5	26.1	39.1#
56	50.9	25.7	38.5#

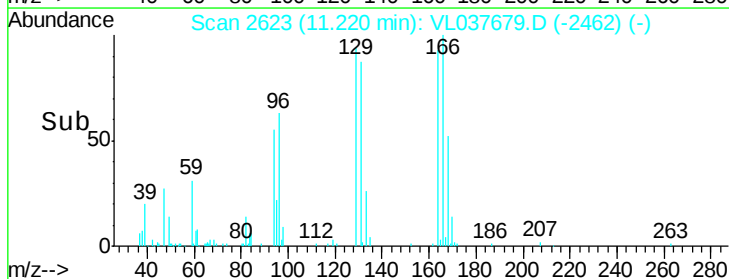
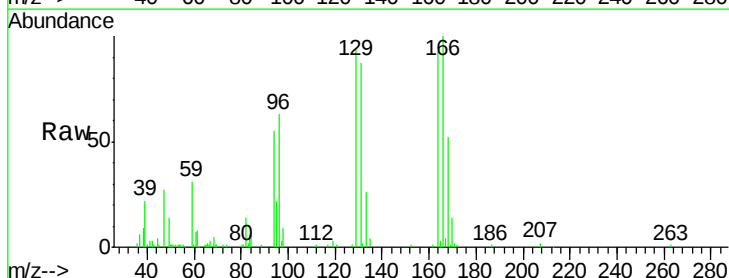
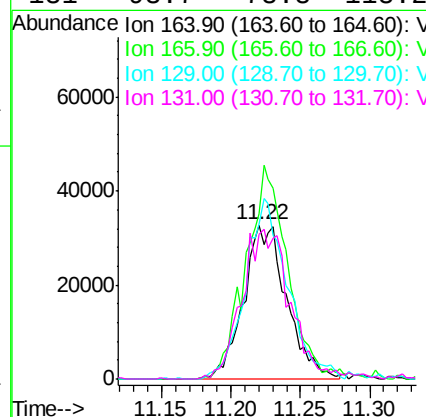
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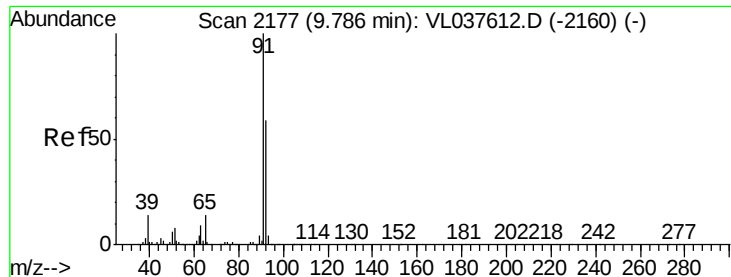
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#52
Tetrachloroethene
Concen: 0.525 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	107.1	101.2	151.8
129	100.6	84.0	126.0
131	93.7	78.8	118.2





#53

Toluene

Concen: 0.340 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-9BDUP

Tgt Ion: 91 Resp: 132461

Ion Ratio Lower Upper

91 100

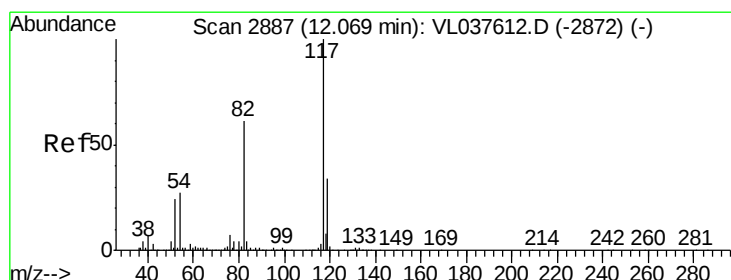
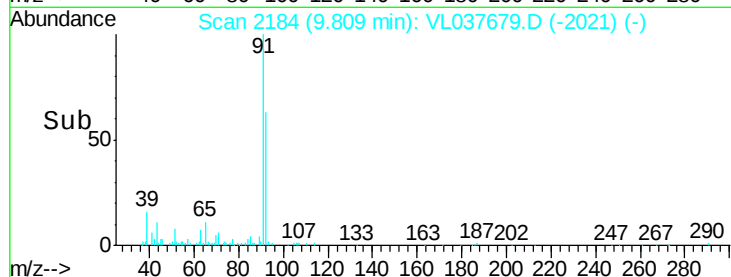
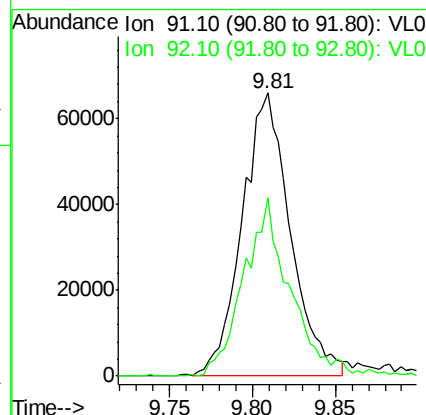
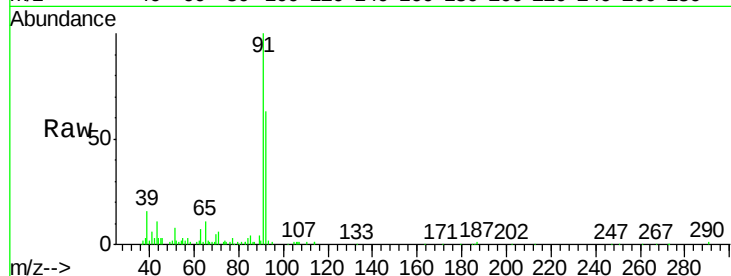
92 62.3 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.02 min

Lab File: VL037679.D

Acq: 27 Sep 2021 14:04

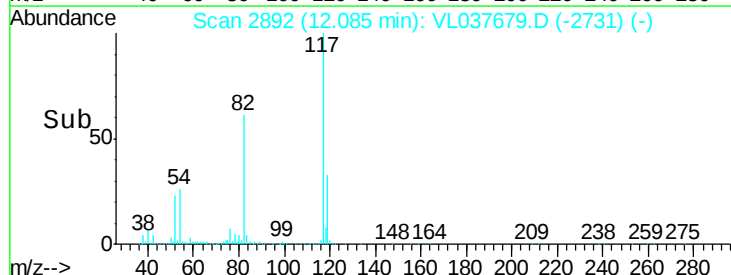
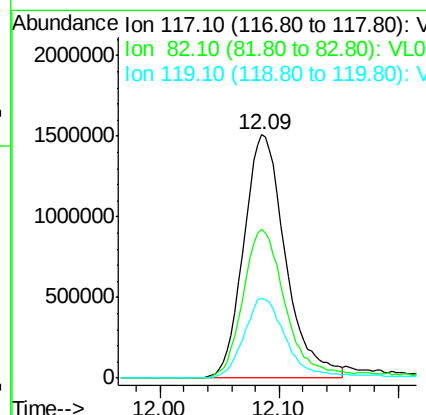
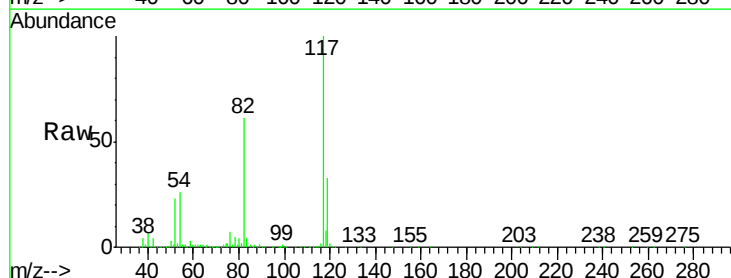
Tgt Ion: 117 Resp: 3681775

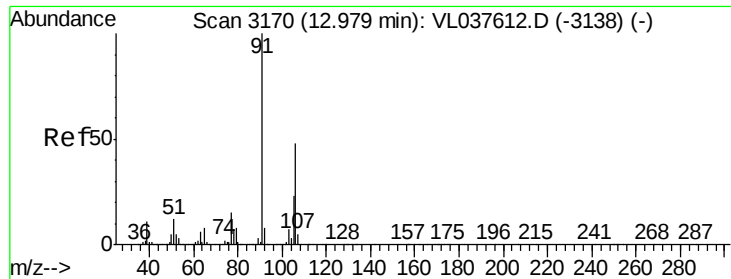
Ion Ratio Lower Upper

117 100

82 65.3 50.6 75.8

119 34.6 26.2 39.2





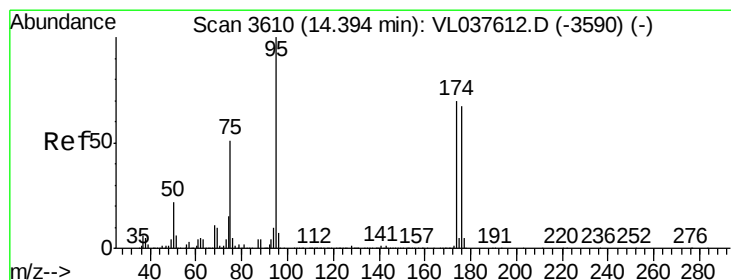
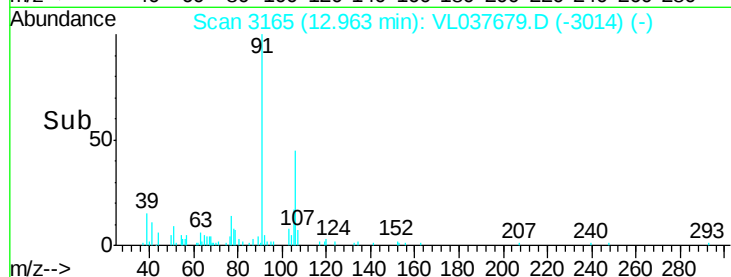
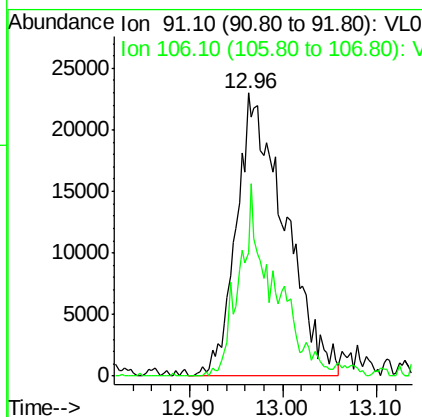
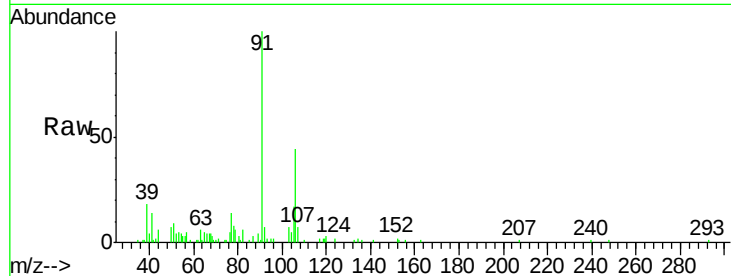
#59
m/p-Xylene
Concen: 0.194 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Instrument :
MSVOA_L
ClientSampled :
IA-9BDUP

Tgt Ion: 91 Resp: 82515
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.699 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.02 min
Lab File: VL037679.D
Acq: 27 Sep 2021 14:04

Tgt Ion: 95 Resp: 2580727
Ion Ratio Lower Upper
95 100
174 77.1 56.3 84.5
175 5.8 4.4 6.6

