

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037094.D
 Acq On : 2 Jun 2021 6:52
 Operator : SY/AP
 Sample : M2548-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6A

Manual Integrations
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 6/7/2021 2:59:40 PM

Quant Time: Jun 06 21:41:09 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	5.65	49	1287075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3841016	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3511300	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2589961	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	48227	0.221	ppbv	95
4) Chloromethane	3.12	50	55250	0.689	ppbv	90
9) Propene	3.01	41	109948m	1.302	ppbv	
10) Heptane	8.10	43	23715	0.113	ppbv #	75
11) Trichlorofluoromethane	3.94	101	53795m	0.266	ppbv	
13) Ethanol	3.60	45	9526593	845.639	ppbv	96
15) Acetone	3.83	43	1204664m	9.138	ppbv	
17) tert-Butyl alcohol	4.29	59	54939m	0.455	ppbv	
19) Isopropyl Alcohol	3.96	45	1525368	21.525	ppbv #	36
20) Methylene Chloride	4.33	84	131990	1.868	ppbv	97
26) Hexane	5.67	57	678192	4.191	ppbv #	48
29) Chloroform	5.74	83	138600m	0.606	ppbv	
34) 2-Butanone	5.23	43	159820	1.143	ppbv	98
35) Carbon Tetrachloride	7.00	117	13374m	0.052	ppbv	
36) Benzene	6.87	78	73452	0.222	ppbv	96
38) Trichloroethene	7.82	130	8225m	0.058	ppbv	
44) 2,2,4-Trimethylpentane	7.84	57	69136m	0.122	ppbv	
50) 4-Methyl-2-Pentanone	8.73	43	81476	0.353	ppbv	98
52) Tetrachloroethene	11.20	164	5568m	0.042	ppbv	
53) Toluene	9.78	91	2089702	5.308	ppbv	98
58) Ethyl Benzene	12.68	91	49940m	0.101	ppbv	
59) m/p-Xylene	12.94	91	90126m	0.220	ppbv	
61) Styrene	13.50	104	35494m	0.161	ppbv	
69) p-Isopropyltoluene	17.63	119	203189	0.342	ppbv	96

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

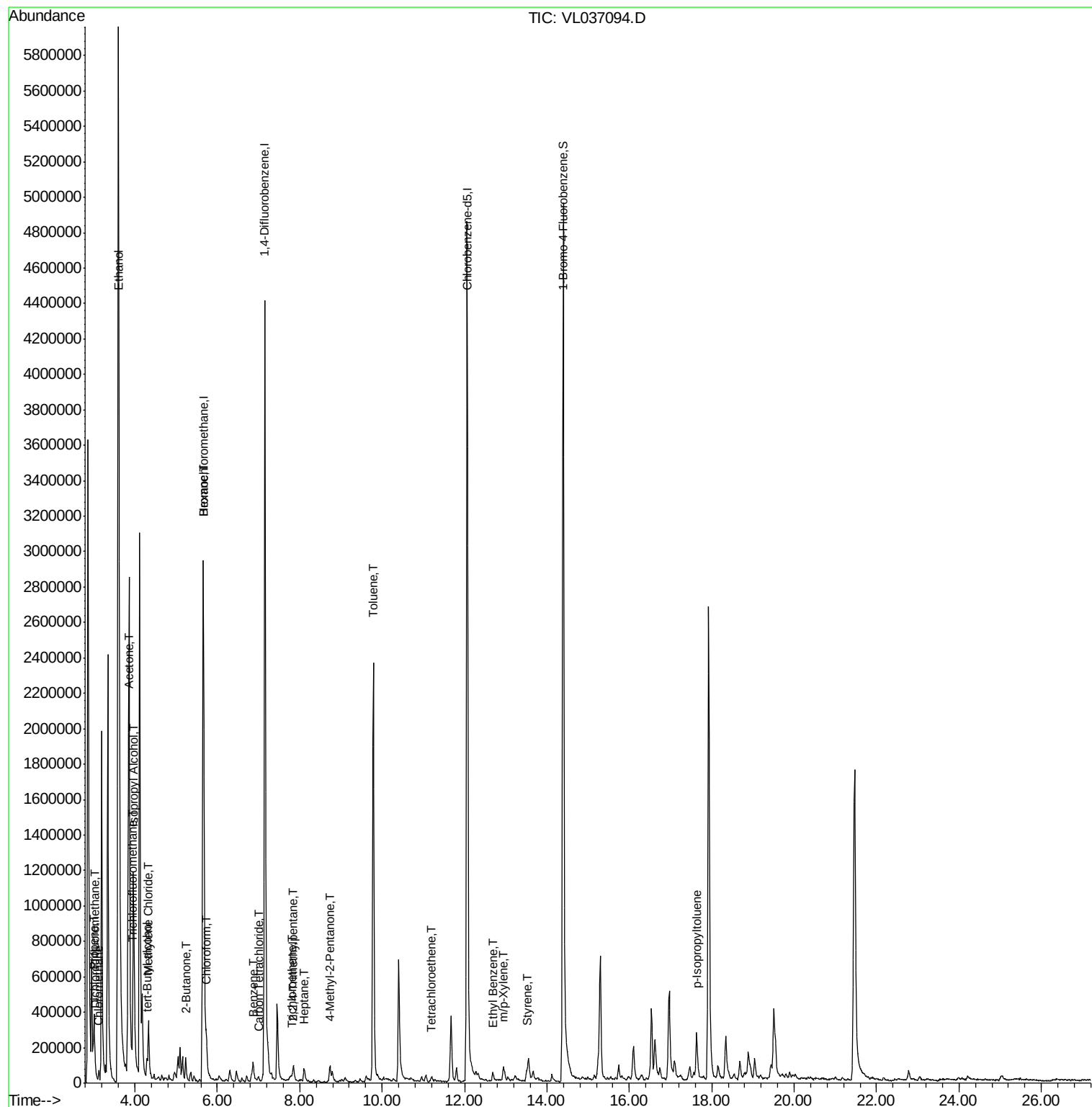
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037094.D
Acq On : 2 Jun 2021 6:52
Operator : SY/AP
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Misc : 400mL/MSVOA L
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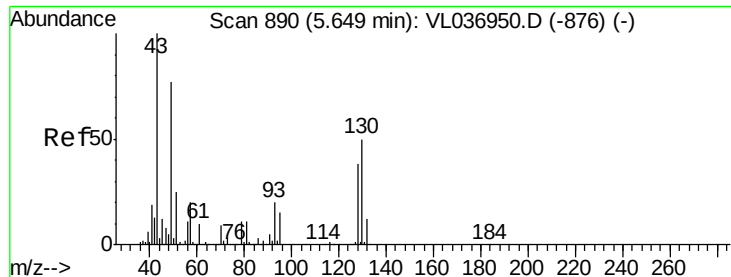
Instrument :
MSVOA_L
ClientSampleId :
IA-6A

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Quant Time: Jun 06 21:41:09 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037094.D

Acq: 2 Jun 2021 6:52

Instrument :

MSVOA_L

ClientSampled :

IA-6A

Tot Ion: 49 Resp: 1287075

Ion Ratio Lower Upper

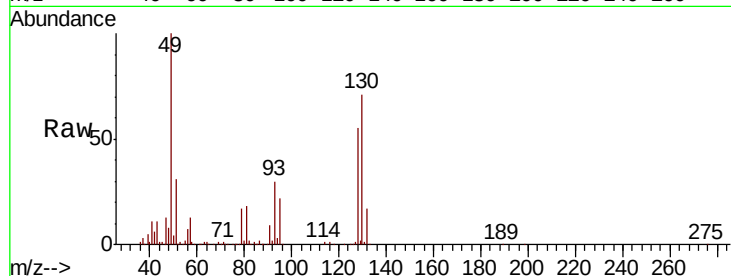
49 100

128 56.8 26.9 80.7

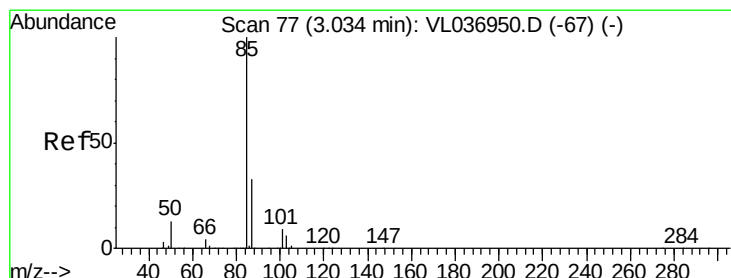
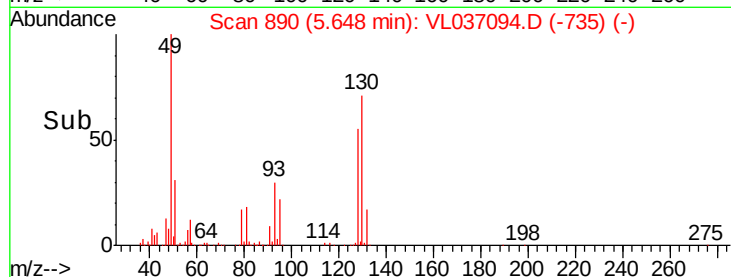
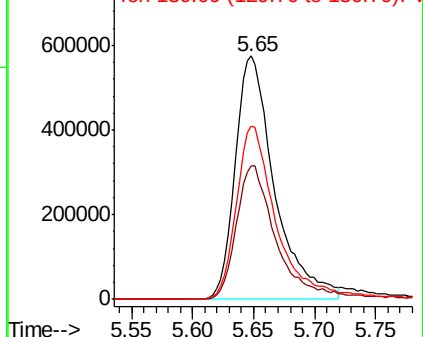
130 73.4 33.8 101.4

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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: 0.221 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL037094.D

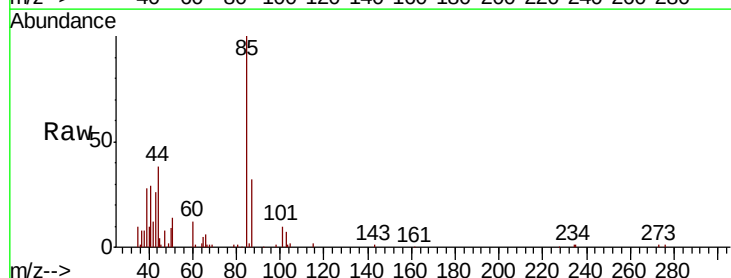
Acq: 2 Jun 2021 6:52

Tgt Ion: 85 Resp: 48227

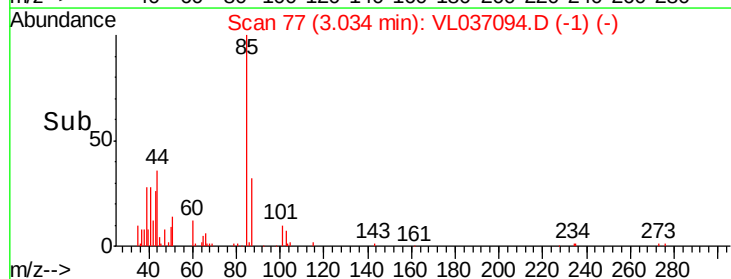
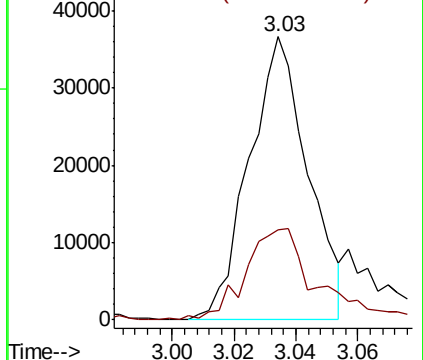
Ion Ratio Lower Upper

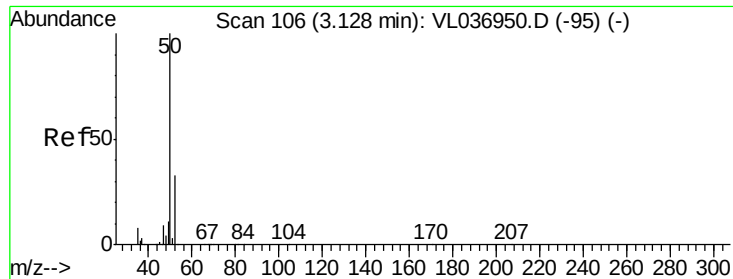
85 100

87 30.5 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.689 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL037094.D

Acq: 2 Jun 2021 6:52

Instrument :

MSVOA_L

ClientSampled :

IA-6A

Tot Ion: 50 Resp: 55250

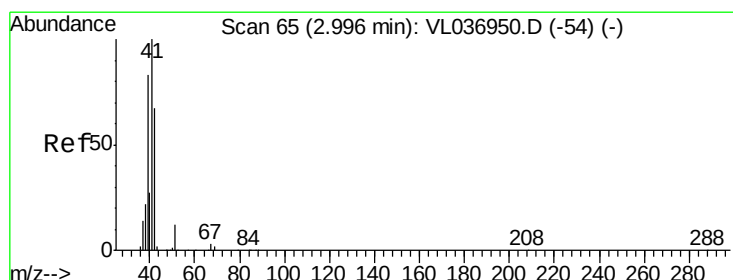
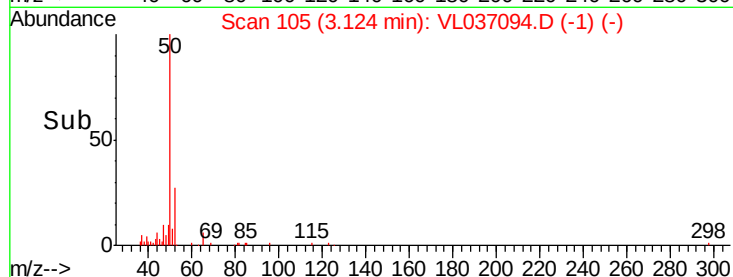
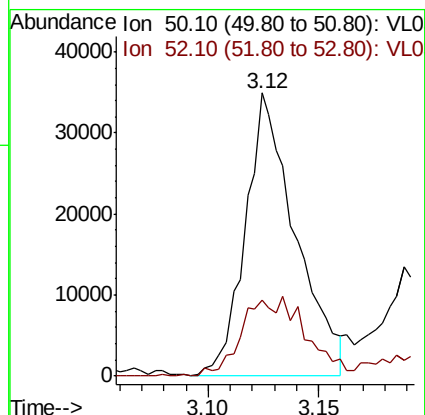
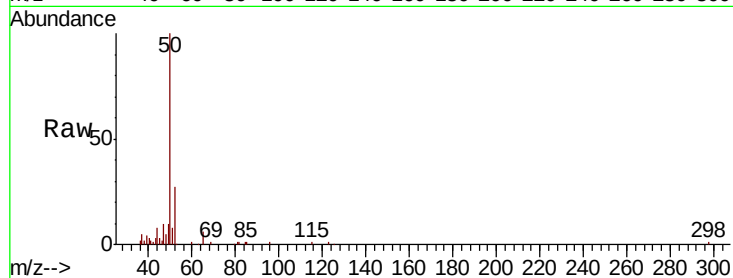
Ion Ratio Lower Upper

50 100

52 27.0 26.1 39.1

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#9

Propene

Concen: 1.302 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL037094.D

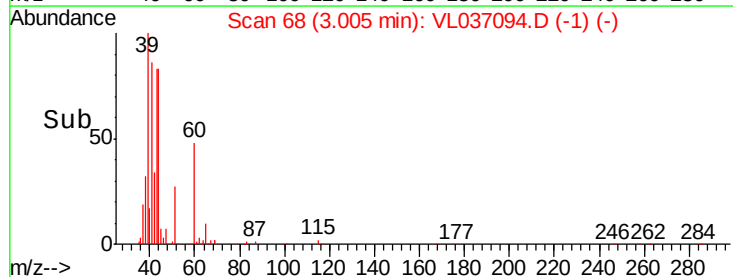
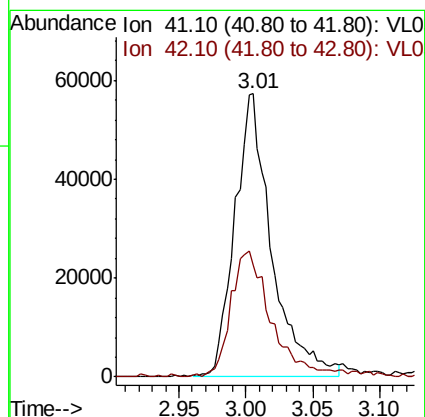
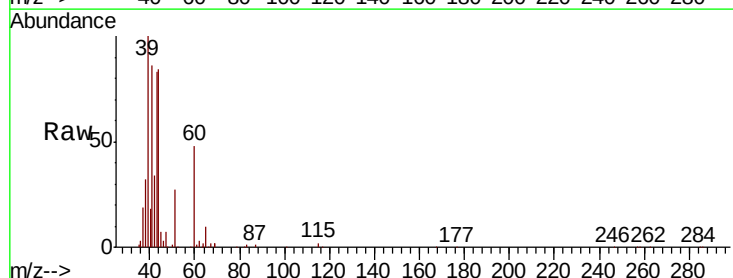
Acq: 2 Jun 2021 6:52

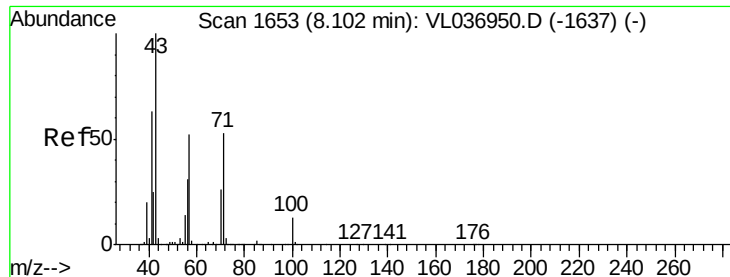
Tgt Ion: 41 Resp: 109948

Ion Ratio Lower Upper

41 100

42 423.7 53.9 80.9#





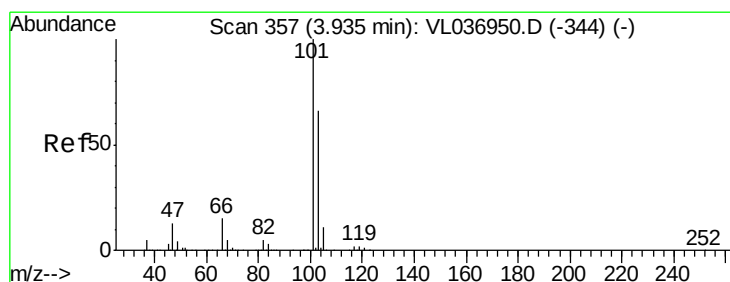
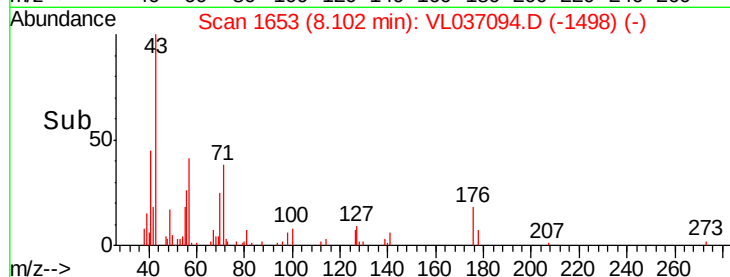
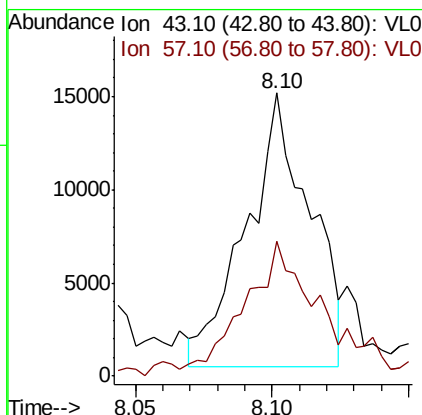
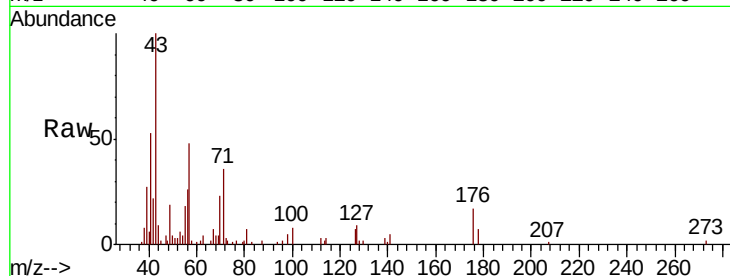
#10
 Heptane
 Concen: 0.113 ppbv
 RT: 8.10 min Scan# 1653
 Delta R.T. -0.00 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6A

Tot Ion: 43 Resp: 23715
 Ion Ratio Lower Upper
 43 100
 57 68.6 41.0 61.6#

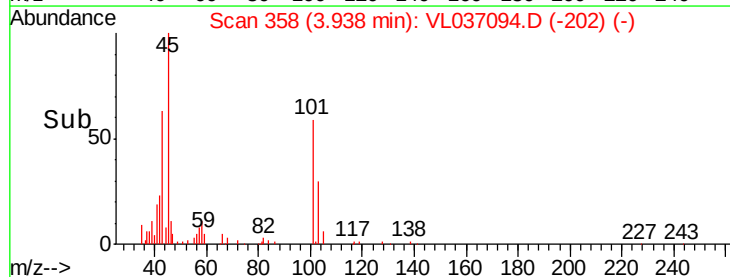
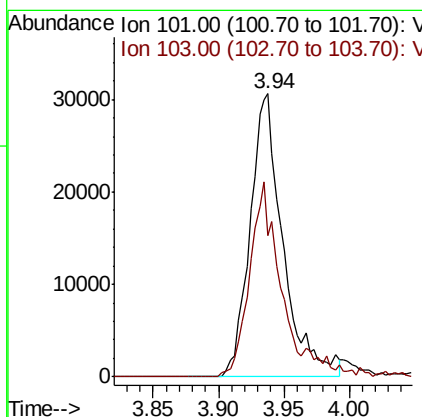
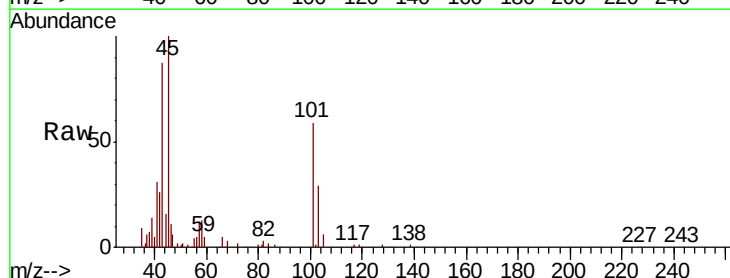
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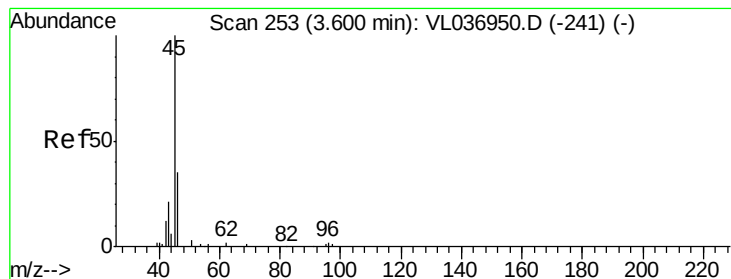
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#11
 Trichlorofluoromethane
 Concen: 0.266 ppbv m
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Tgt Ion: 101 Resp: 53795
 Ion Ratio Lower Upper
 101 100
 103 49.9 52.6 79.0#





#13

Ethanol

Concen: 845.639 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037094.D

Acq: 2 Jun 2021 6:52

Instrument :

MSVOA_L

ClientSampleId :

IA-6A

Tot Ion: 45 Resp: 9526593

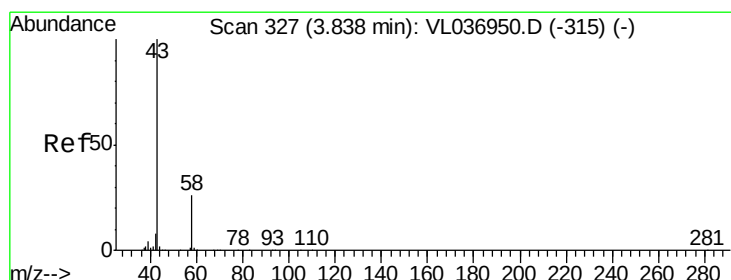
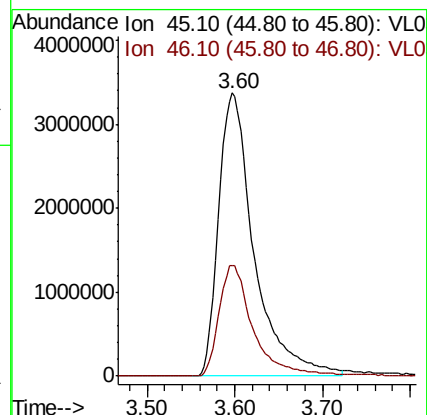
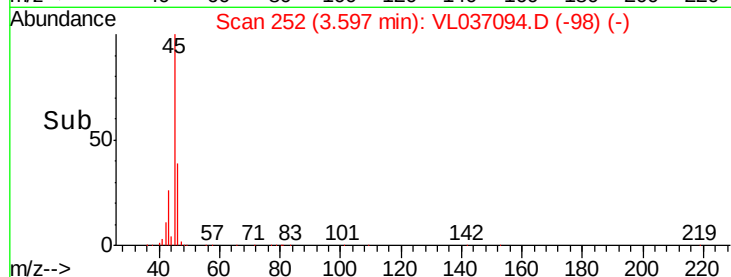
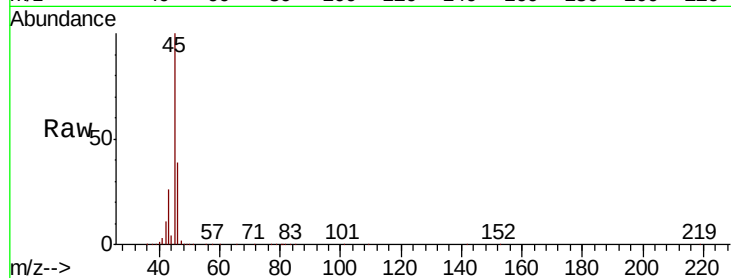
Ion Ratio Lower Upper

45 100

46 38.4 16.3 65.3

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#15

Acetone

Concen: 9.138 ppbv m

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037094.D

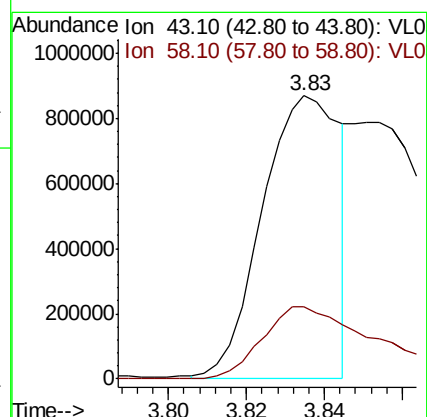
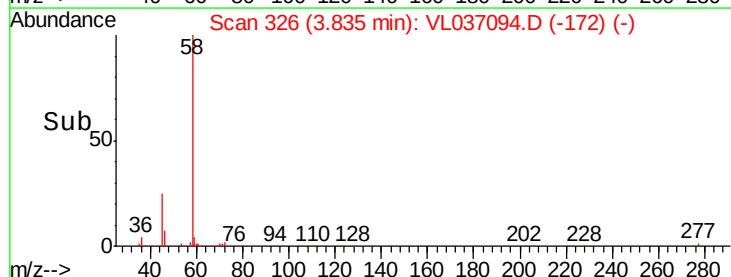
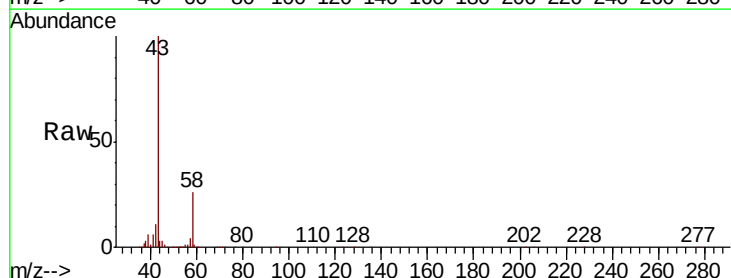
Acq: 2 Jun 2021 6:52

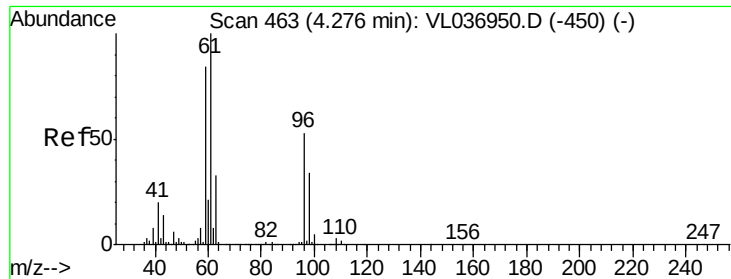
Tgt Ion: 43 Resp: 1204664

Ion Ratio Lower Upper

43 100

58 43.4 24.0 36.0#





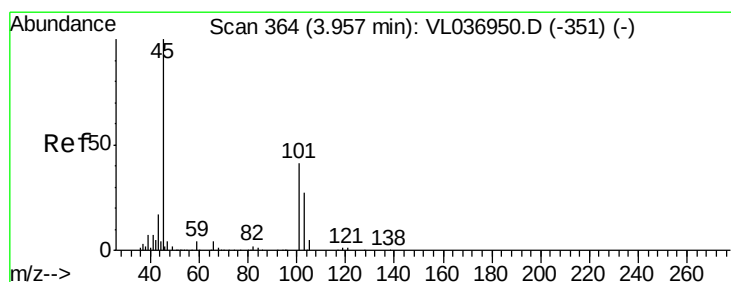
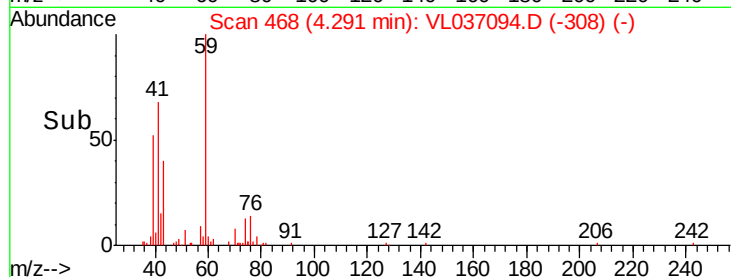
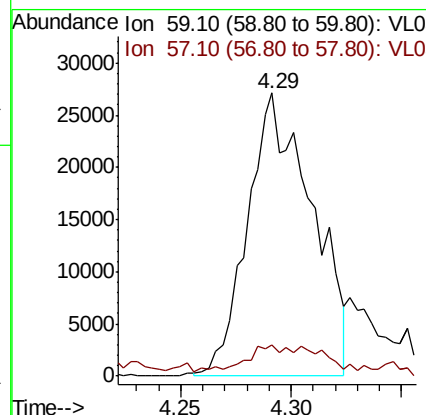
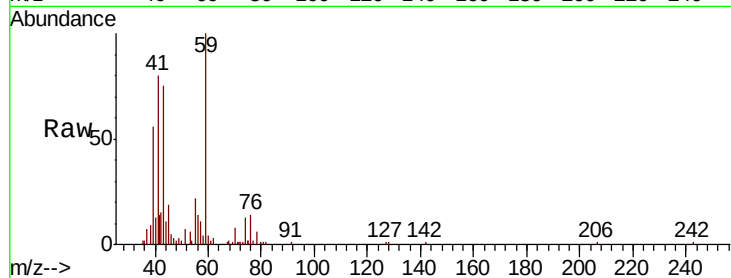
#17
 tert-Butyl alcohol
 Concen: 0.455 ppbv m
 RT: 4.29 min Scan# 468
 Delta R.T. 0.02 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Instrument :
 MSVOA_L
 ClientSampled :
 IA-6A

Tot Ion: 59 Resp: 54939
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

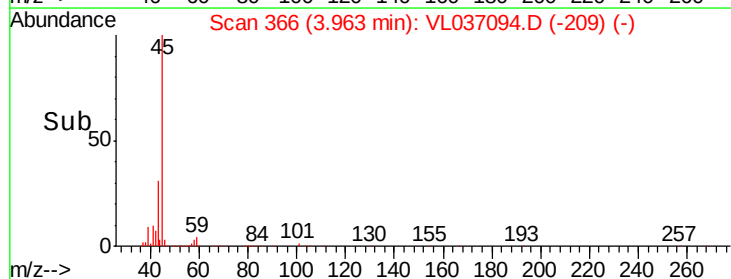
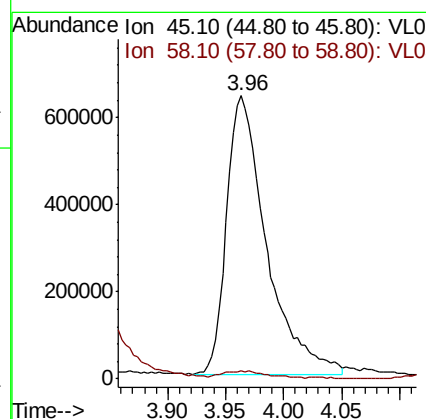
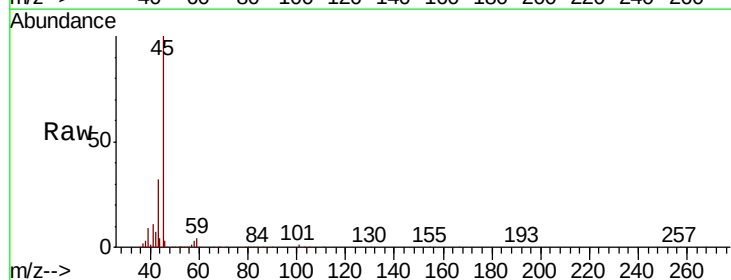
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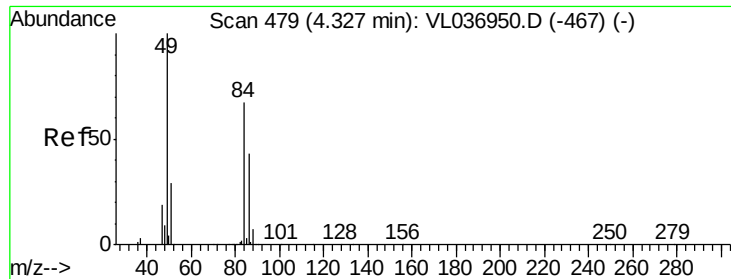
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#19
 Isopropyl Alcohol
 Concen: 21.525 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Tgt Ion: 45 Resp: 1525368
 Ion Ratio Lower Upper
 45 100
 58 4.1 37.2 55.8#





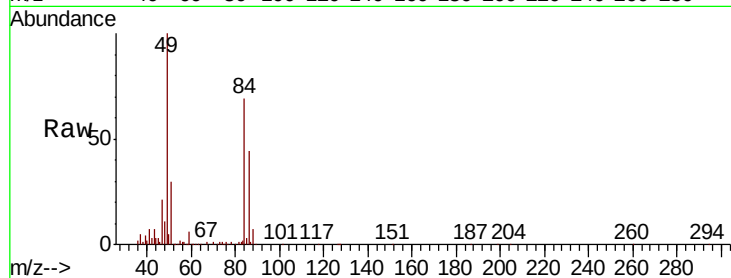
#20
Methvlene Chloride
Concen: 1.868 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Instrument :
MSVOA_L
ClientSampled :
IA-6A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	143.9	119.8	179.6		
51	41.7	35.1	52.7		
86	63.8	50.9	76.3		

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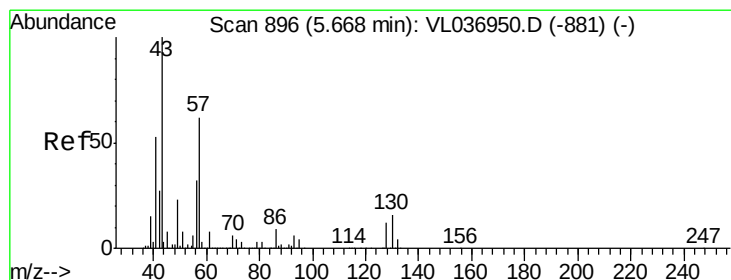
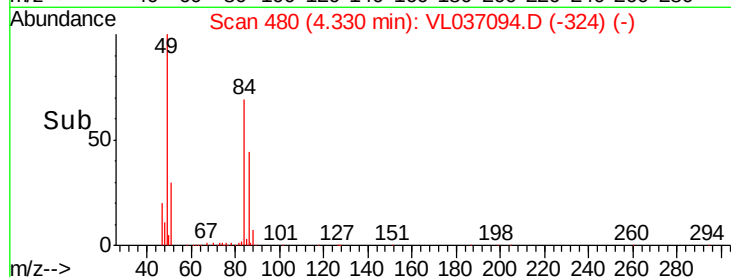
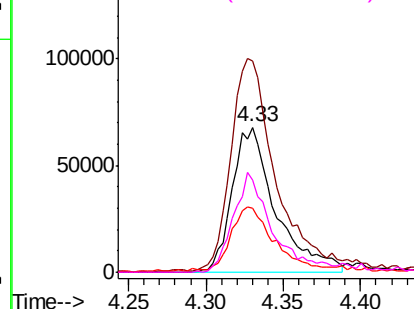
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 4.191 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	91.9	70.5	105.7		
43	74.3	165.8	248.8		
56	54.2	42.2	63.4		

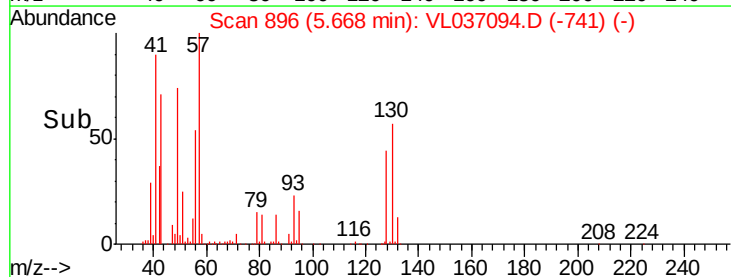
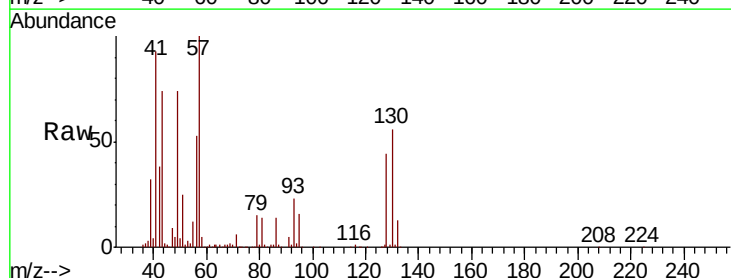
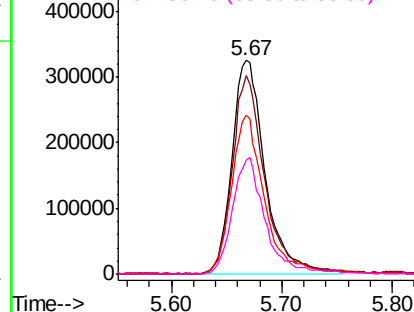
Abundance

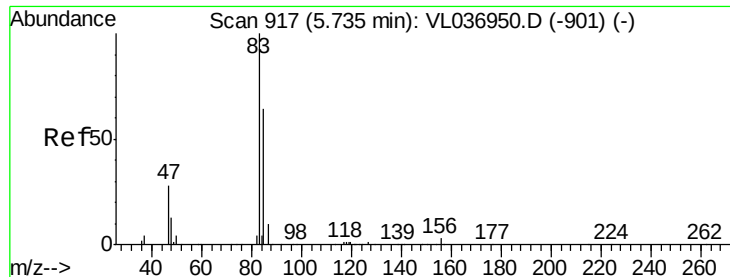
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





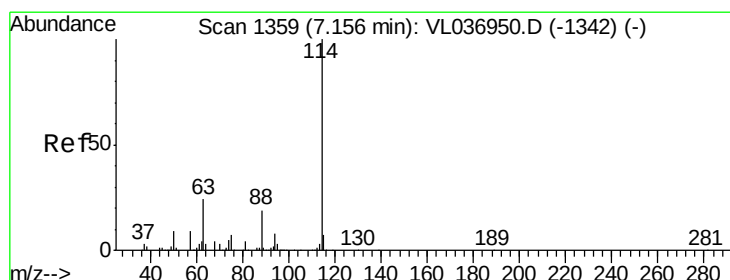
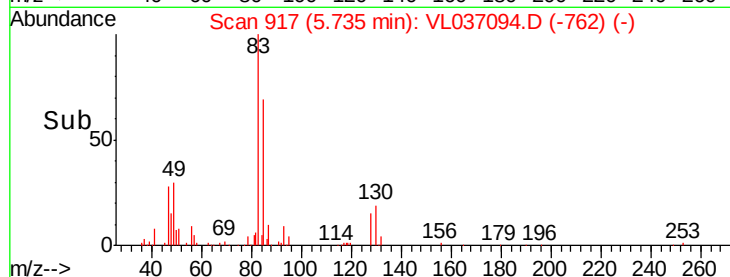
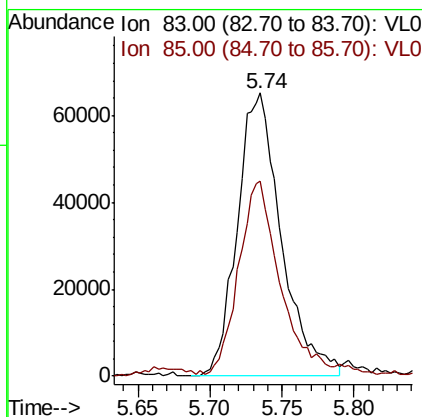
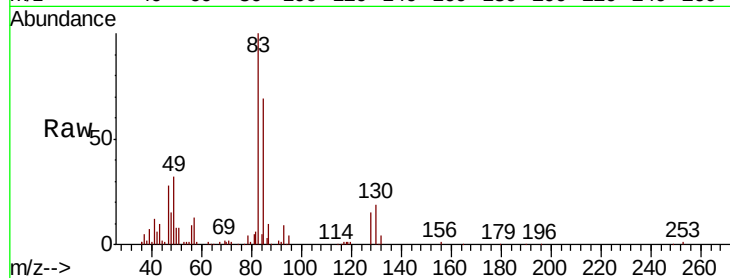
#29
Chloroform
Concen: 0.606 ppbv m
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Instrument :
MSVOA_L
ClientSampled :
IA-6A

Tot Ion	83	Resp	138600
Ion Ratio	100	Lower	Upper
85	68.8	51.1	76.7

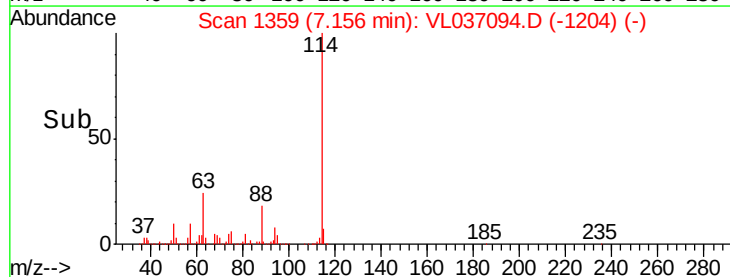
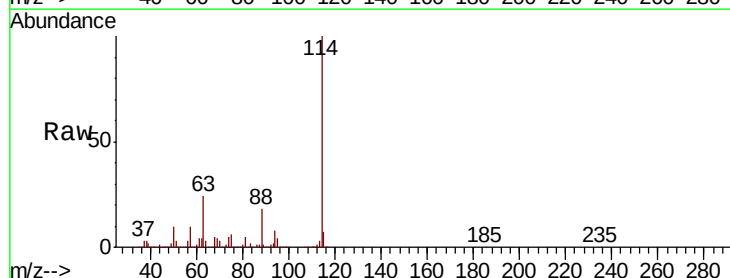
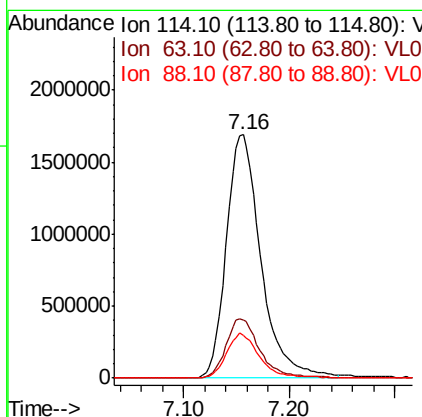
Manual Integrations
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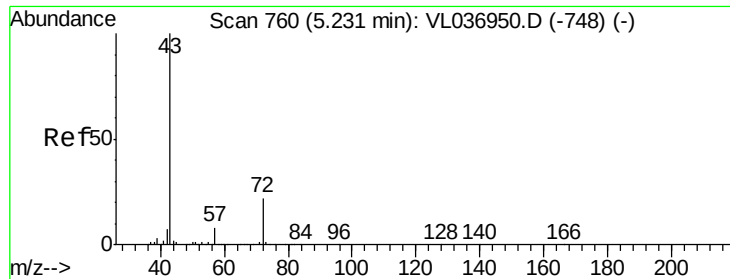
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Tgt Ion	114	Resp	3841016
Ion Ratio	100	Lower	Upper
63	24.0	19.6	29.4
88	17.8	14.6	21.8





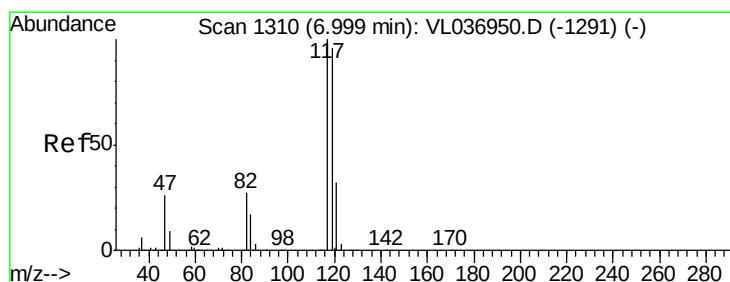
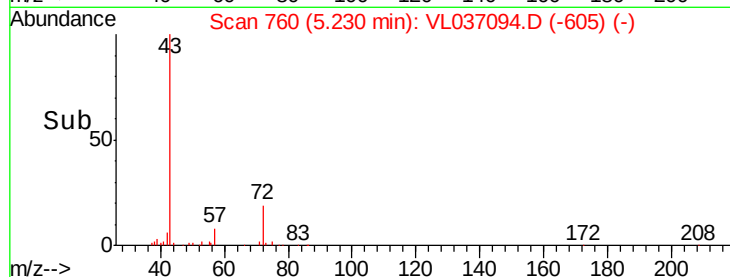
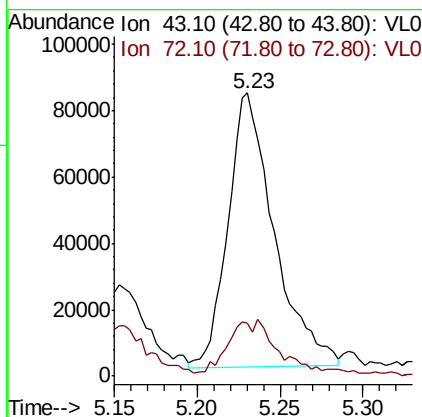
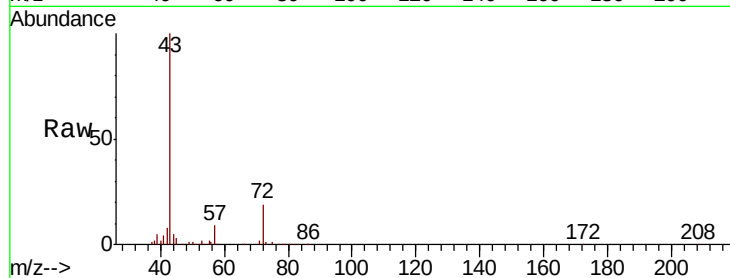
#34
2-Butanone
Concen: 1.143 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Instrument :
MSVOA_L
ClientSampleId :
IA-6A

Tot Ion	43	Resp	159820
Ion Ratio	100	Lower	Upper
43	100		
72	24.7	19.0	28.4

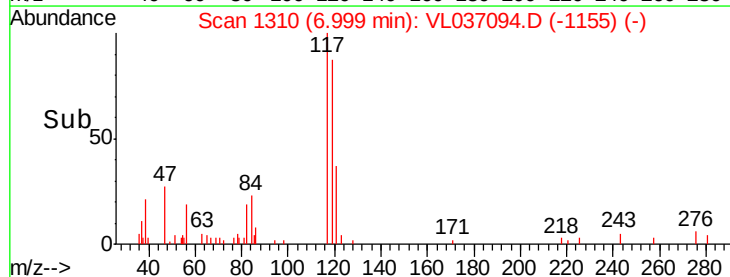
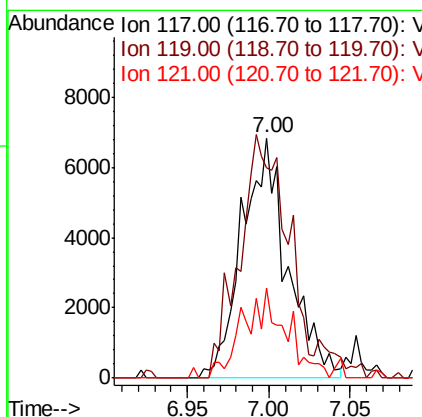
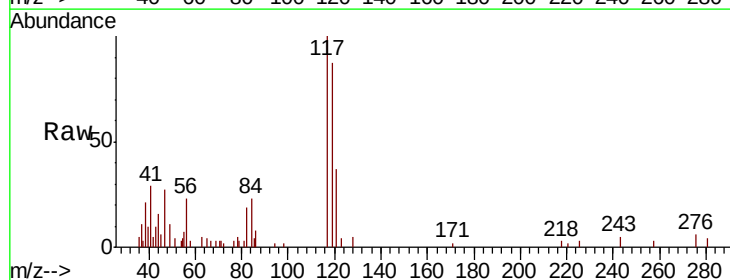
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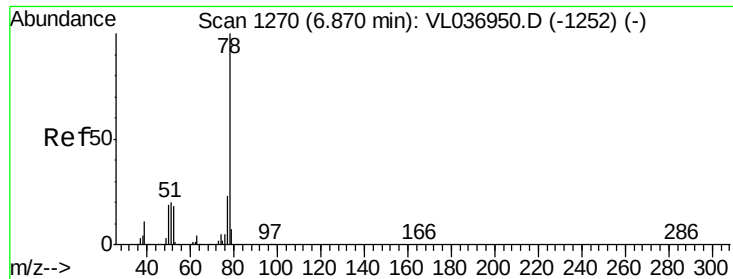
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#35
Carbon Tetrachloride
Concen: 0.052 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Tgt Ion	117	Resp	13374
Ion Ratio	100	Lower	Upper
117	100		
119	87.4	76.6	114.8
121	37.4	25.8	38.6





#36

Benzene

Concen: 0.222 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL037094.D

Acq: 2 Jun 2021 6:52

Instrument :

MSVOA_L

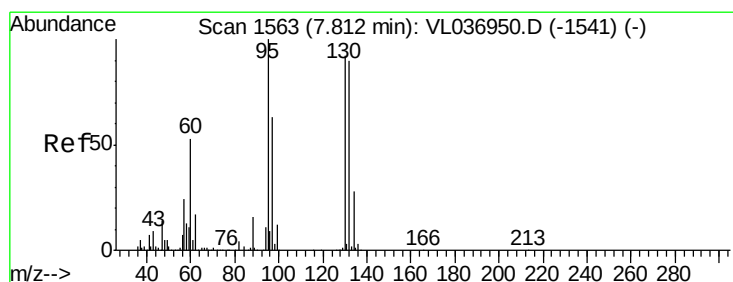
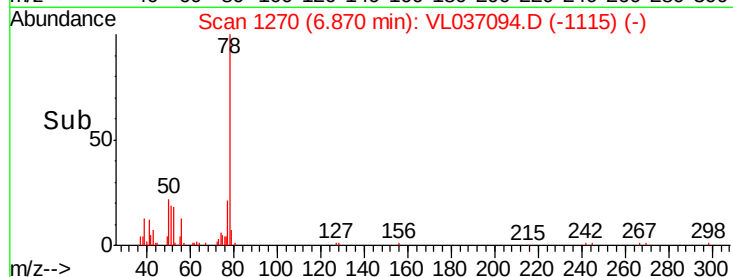
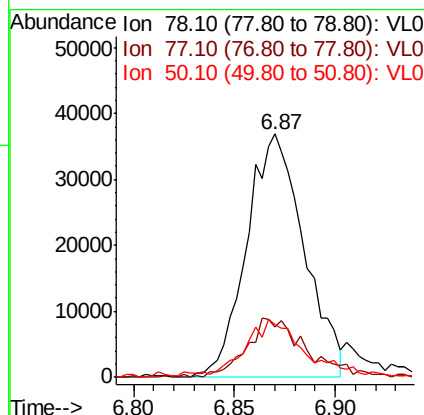
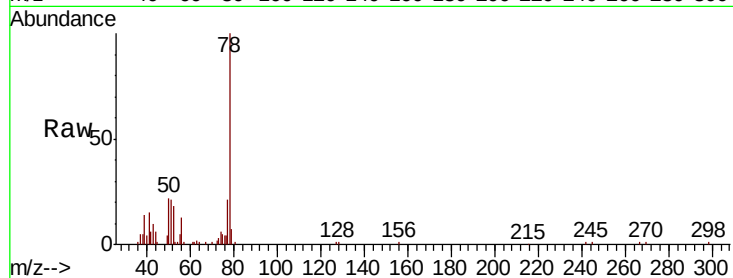
ClientSampled :

IA-6A

Tot Ion:	78	Resp:	73452
Ion	Ratio	Lower	Upper
78	100		
77	20.9	18.6	28.0
50	20.4	15.0	22.4

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#38

Trichloroethene

Concen: 0.058 ppbv m

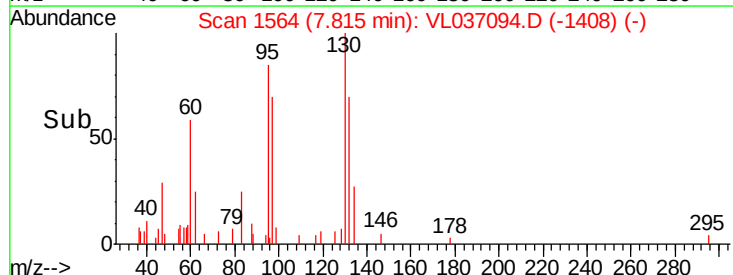
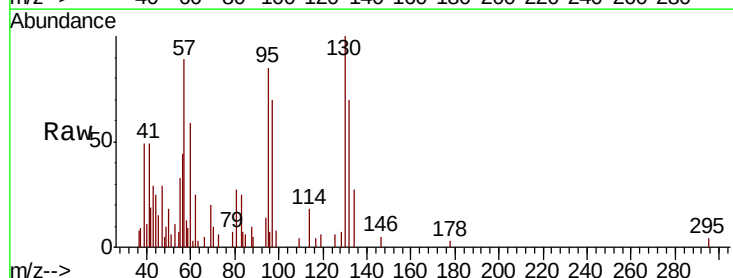
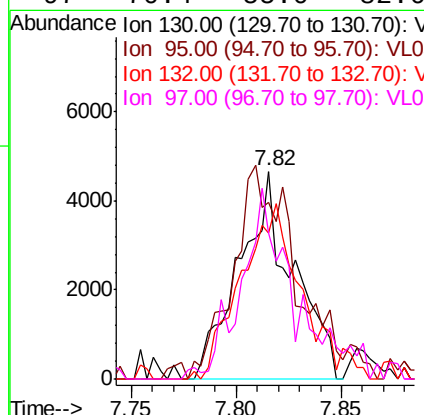
RT: 7.82 min Scan# 1564

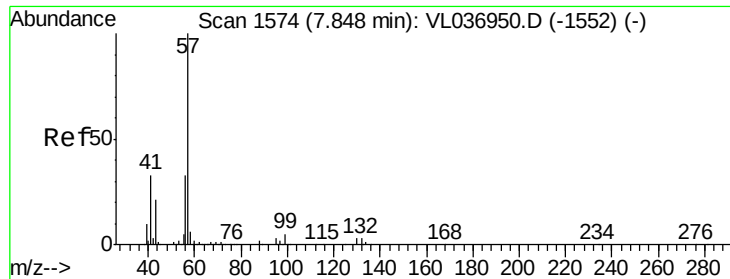
Delta R.T. 0.00 min

Lab File: VL037094.D

Acq: 2 Jun 2021 6:52

Tgt Ion:	130	Resp:	8225
Ion	Ratio	Lower	Upper
130	100		
95	85.4	86.9	130.3#
132	70.2	78.4	117.6#
97	70.4	55.0	82.6





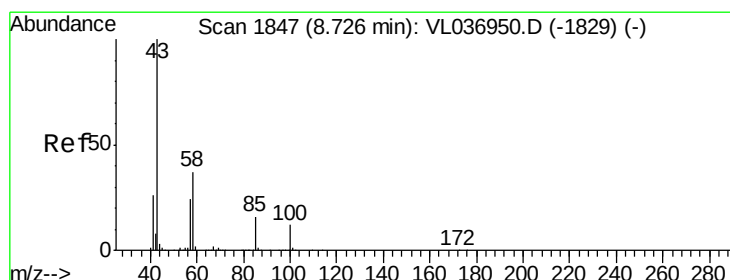
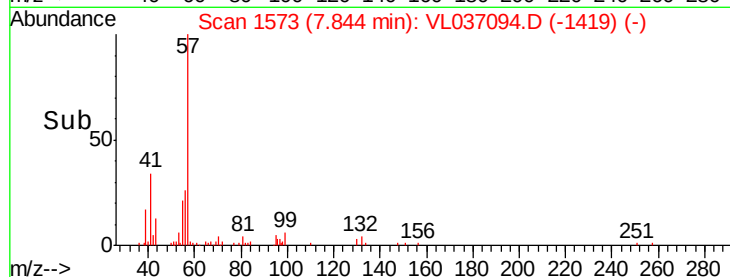
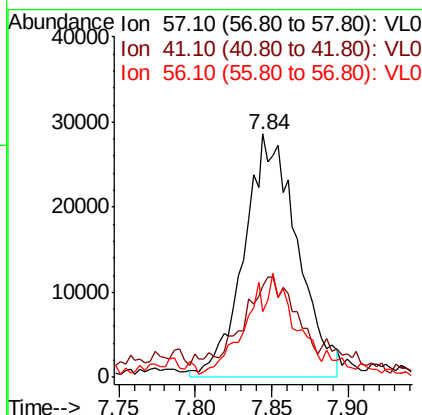
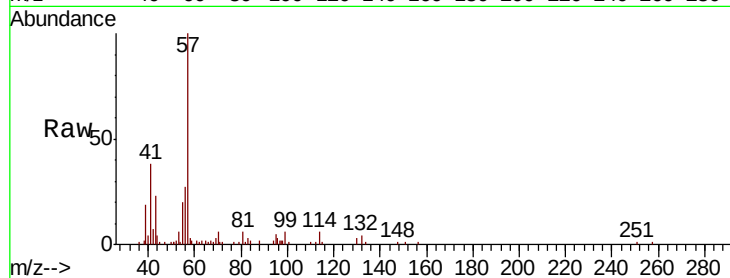
#44
 2,2,4-Trimethylpentane
 Concen: 0.122 ppbv m
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6A

Tot Ion	Ratio	Lower	Upper
57	100		
41	57.1	27.0	40.4#
56	47.0	25.4	38.2#

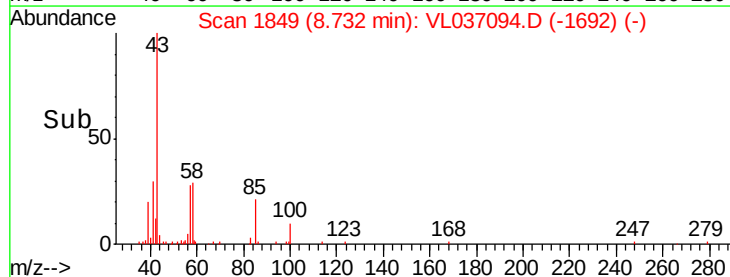
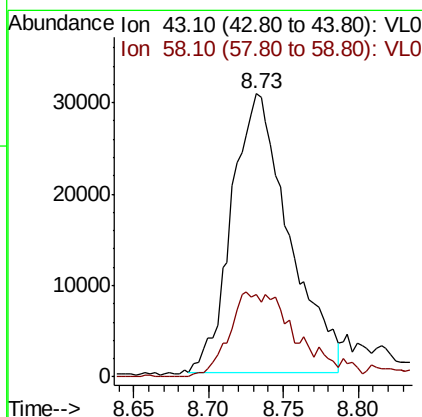
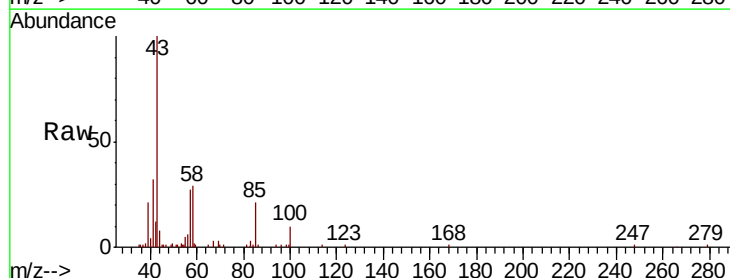
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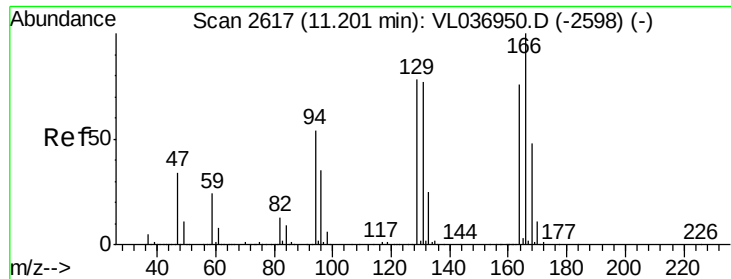
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#50
 4-Methyl-2-Pentanone
 Concen: 0.353 ppbv
 RT: 8.73 min Scan# 1849
 Delta R.T. 0.01 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.5	29.4	44.2





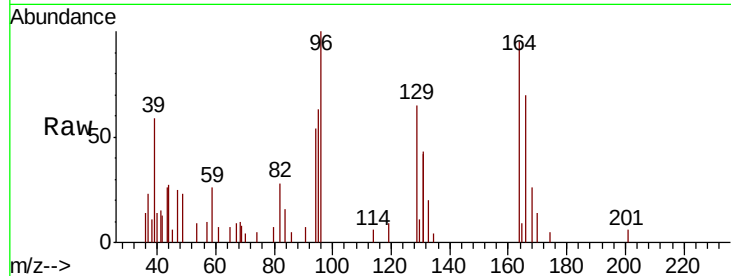
#52
Tetrachloroethene
Concen: 0.042 ppbv m
RT: 11.20 min Scan# 2616
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Instrument :
MSVOA_L
ClientSampled :
IA-6A

Tot Ion	Ratio	Lower	Upper
164	100		
166	73.3	105.5	158.3#
129	68.4	81.8	122.8#
131	44.9	81.2	121.8#

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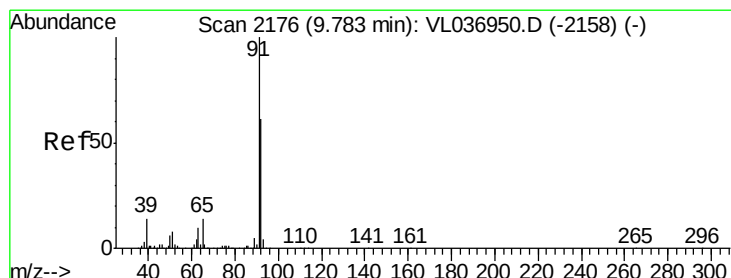
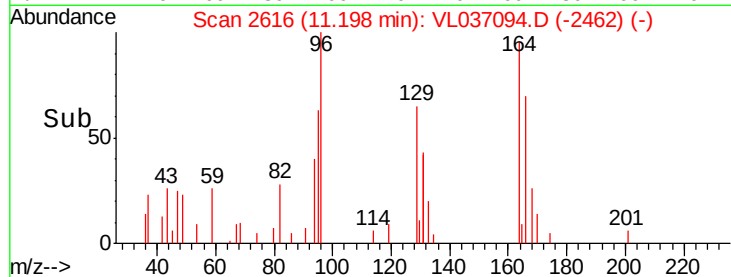
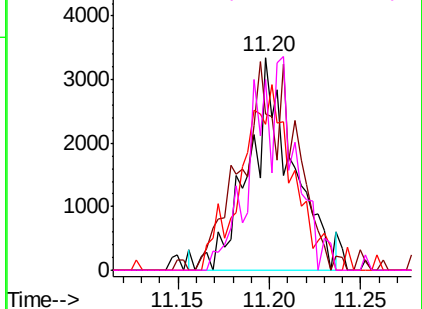
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

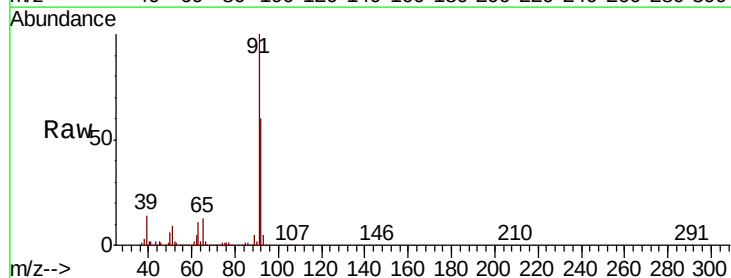
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 5.308 ppbv
RT: 9.78 min Scan# 2176
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

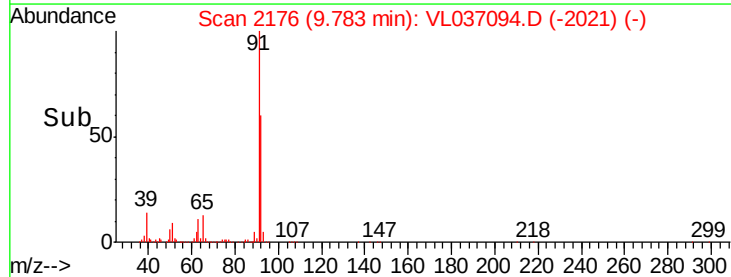
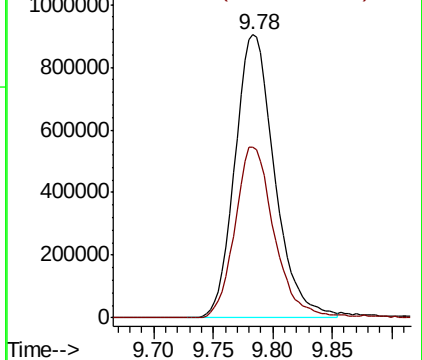
Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.6	49.5	74.3

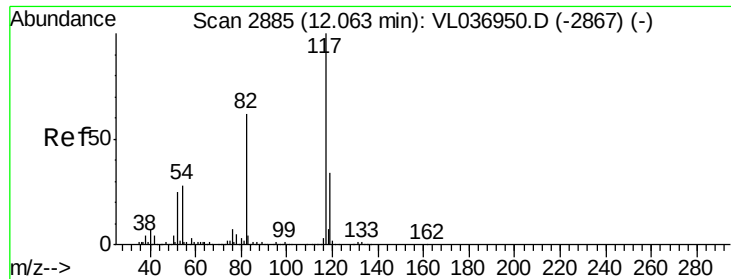


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





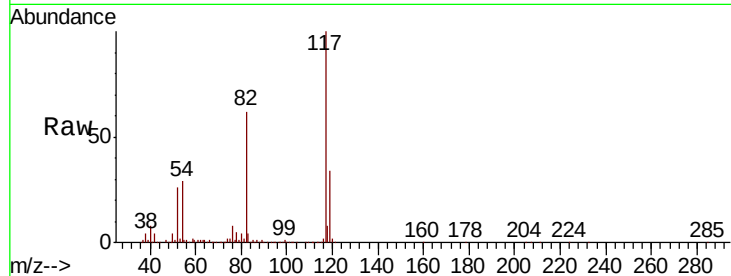
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Instrument :
MSVOA_L
ClientSampled :
IA-6A

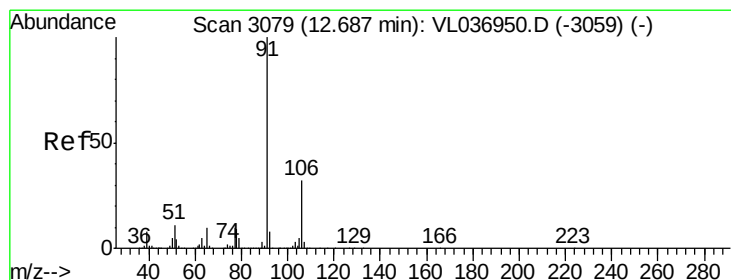
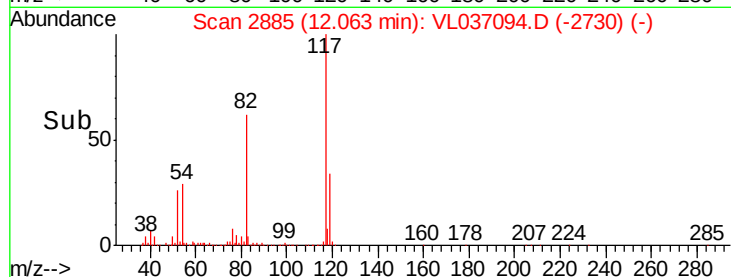
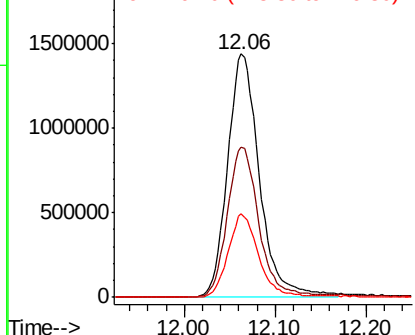
Tot Ion	Ratio	Lower	Upper
117	100		
82	62.6	52.6	79.0
119	33.8	46.6	70.0#

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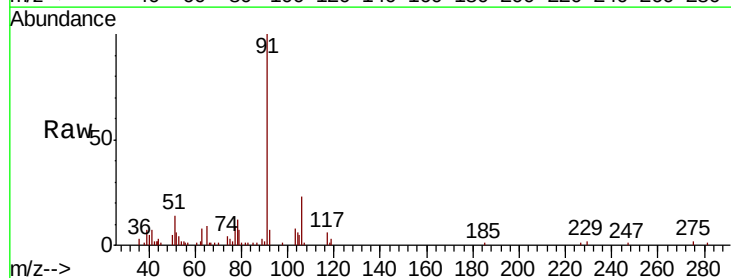


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

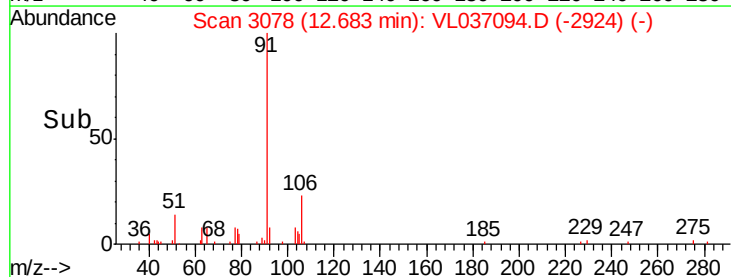
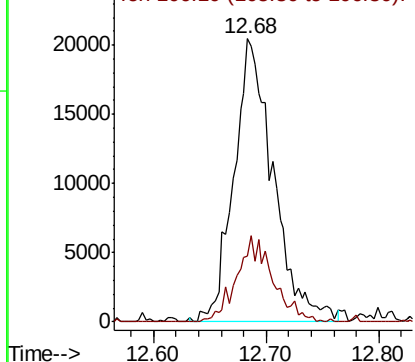


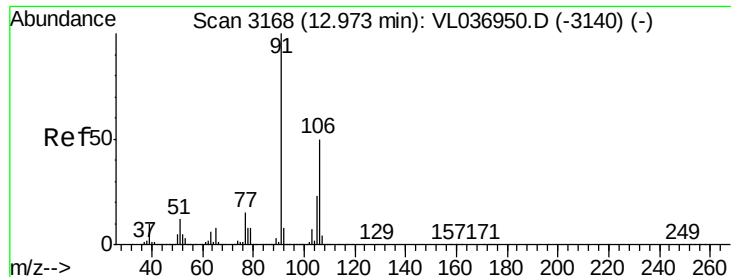
#58
Ethyl Benzene
Concen: 0.101 ppbv m
RT: 12.68 min Scan# 3078
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	23.1	25.6	38.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





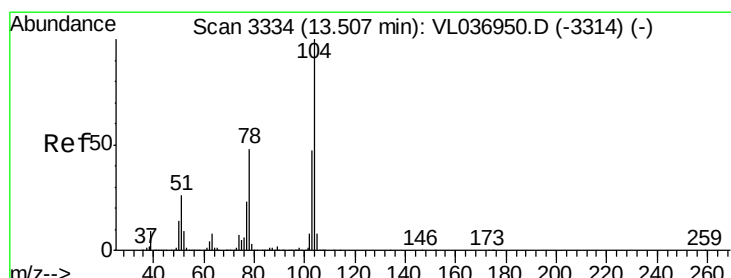
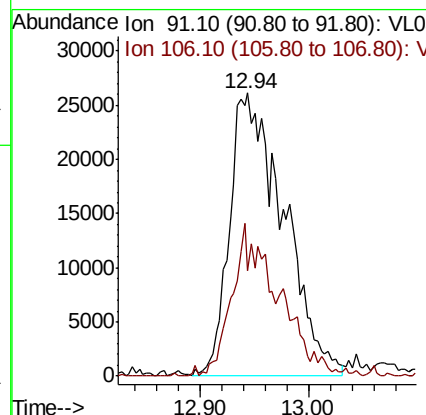
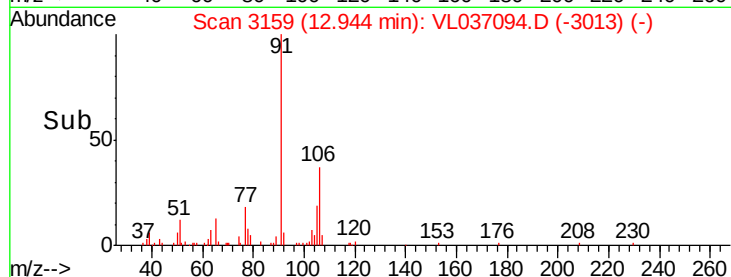
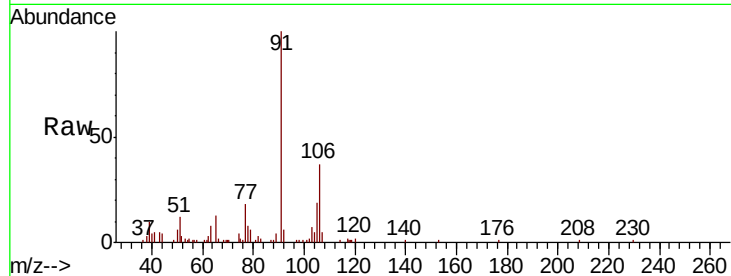
#59
m/p-Xylene
Concen: 0.220 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Instrument :
MSVOA_L
ClientSampled :
IA-6A

Tot Ion: 91 Resp: 90126
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

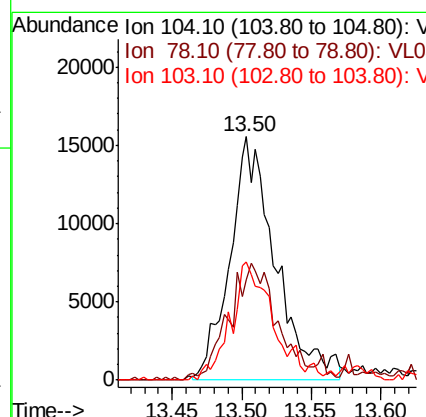
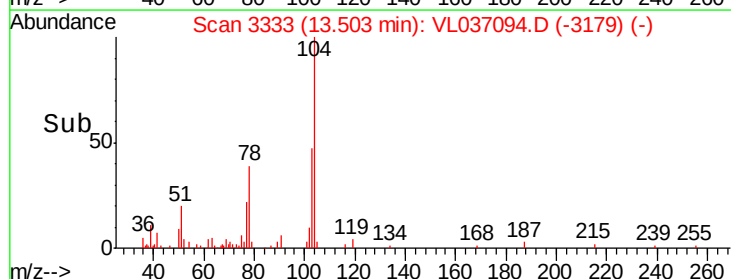
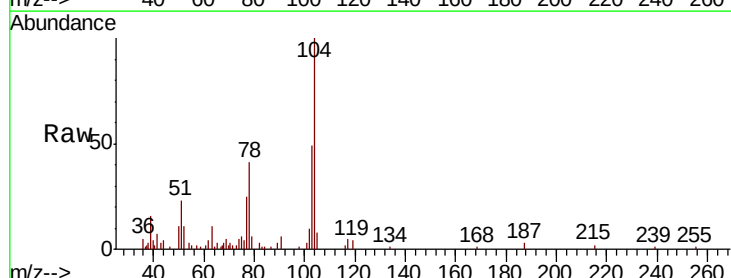
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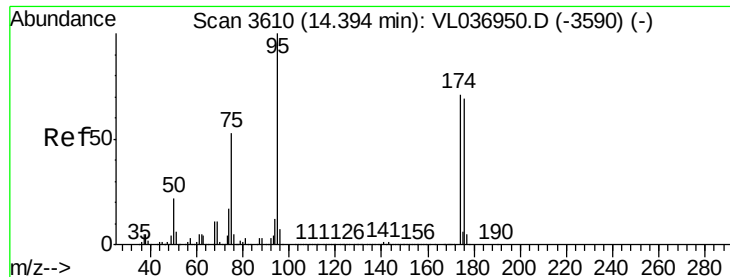
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#61
Styrene
Concen: 0.161 ppbv m
RT: 13.50 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VL037094.D
Acq: 2 Jun 2021 6:52

Tgt Ion: 104 Resp: 35494
Ion Ratio Lower Upper
104 100
78 55.6 39.0 58.6
103 0.0 38.0 57.0#





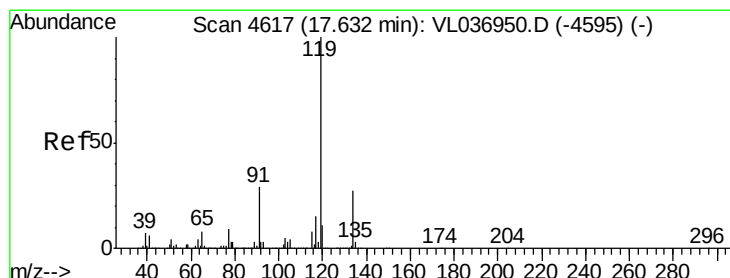
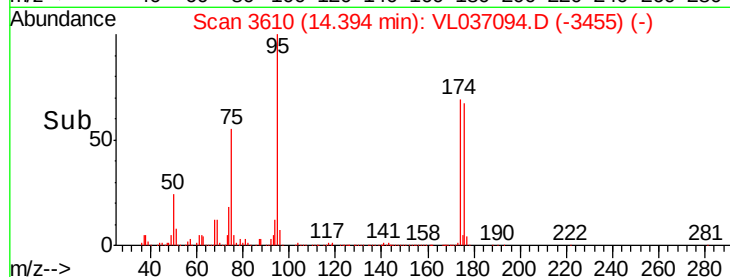
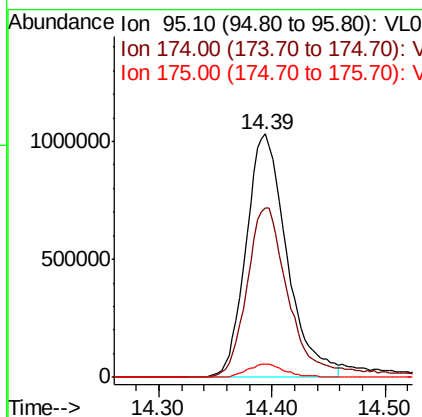
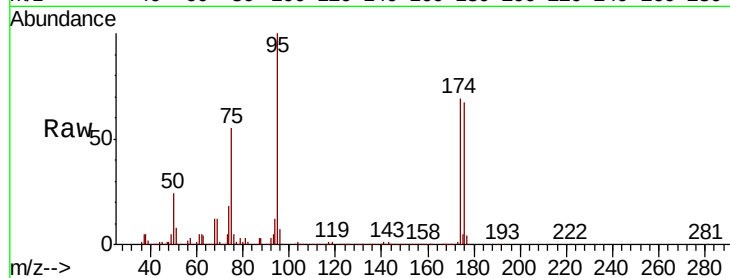
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.819 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-6A

Tot Ion	Ratio	Lower	Upper
95	100		
174	74.9	58.4	87.6
175	5.4	4.4	6.6

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#69
 p-Isopropyltoluene
 Concen: 0.342 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.00 min
 Lab File: VL037094.D
 Acq: 2 Jun 2021 6:52

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	21.2	31.8
91	30.6	22.2	33.4

