

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037573.D
 Acq On : 8 Sep 2021 15:37
 Operator : SY/AP
 Sample : M3662-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Manual Integrations
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 9/10/2021 10:52:28 AM

Quant Time: Sep 09 09:12:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.680	49	1636548	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.192	114	4815230	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.098	117	4251072	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.429	95	3089987	10.231	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.063	85	55468m	0.211	ppbv	
3) Chlorodifluoromethane	3.002	51	122586m	0.391	ppbv	
4) Chloromethane	3.153	50	52642	0.470	ppbv	90
9) Propene	3.038	41	137797	1.229	ppbv #	77
10) Heptane	8.143	43	30160m	0.117	ppbv	
11) Trichlorofluoromethane	3.964	101	51223	0.208	ppbv	92
13) Ethanol	3.616	45	1417351m	129.903	ppbv	
15) Acetone	3.861	43	2118915	12.722	ppbv	100
17) tert-Butyl alcohol	4.317	59	32899	0.216	ppbv	95
19) Isopropyl Alcohol	3.980	45	663758m	6.956	ppbv	
20) Methylene Chloride	4.356	84	140776m	1.688	ppbv	
26) Hexane	5.697	57	178773	0.865	ppbv #	73
27) Carbon Disulfide	4.568	76	31907m	0.173	ppbv	
29) Chloroform	5.764	83	965948	3.297	ppbv	100
34) 2-Butanone	5.263	43	264682	1.346	ppbv #	90
35) Carbon Tetrachloride	7.034	117	14974m	0.053	ppbv	
36) Benzene	6.906	78	159815	0.395	ppbv	98
38) Trichloroethene	7.854	130	7371m	0.044	ppbv	
41) Tetrahydrofuran	6.079	42	148820m	1.571	ppbv	
44) 2,2,4-Trimethylpentane	7.883	57	69278m	0.102	ppbv	
52) Tetrachloroethene	11.240	164	49721m	0.300	ppbv	
53) Toluene	9.819	91	368529	0.797	ppbv	98
58) Ethyl Benzene	12.722	91	2506035	4.248	ppbv	95
59) m/p-Xylene	12.982	91	15011484	29.352	ppbv	91
60) o-Xylene	13.706	91	6999387	14.663	ppbv	99
62) Isopropylbenzene	14.677	105	79555m	0.118	ppbv	
70) n-Butylbenzene	18.558	91	132895m	0.199	ppbv	
72) 4-Ethyltoluene	15.851	105	99829	0.176	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.008	105	123811m	0.234	ppbv	
74) 1,2,4-Trimethylbenzene	16.773	105	401994	0.716	ppbv #	66
79) Naphthalene	22.201	128	88312m	0.235	ppbv	
80) Naphthalene, 2-methyl-	24.982	142	52486m	0.501	ppbv	

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

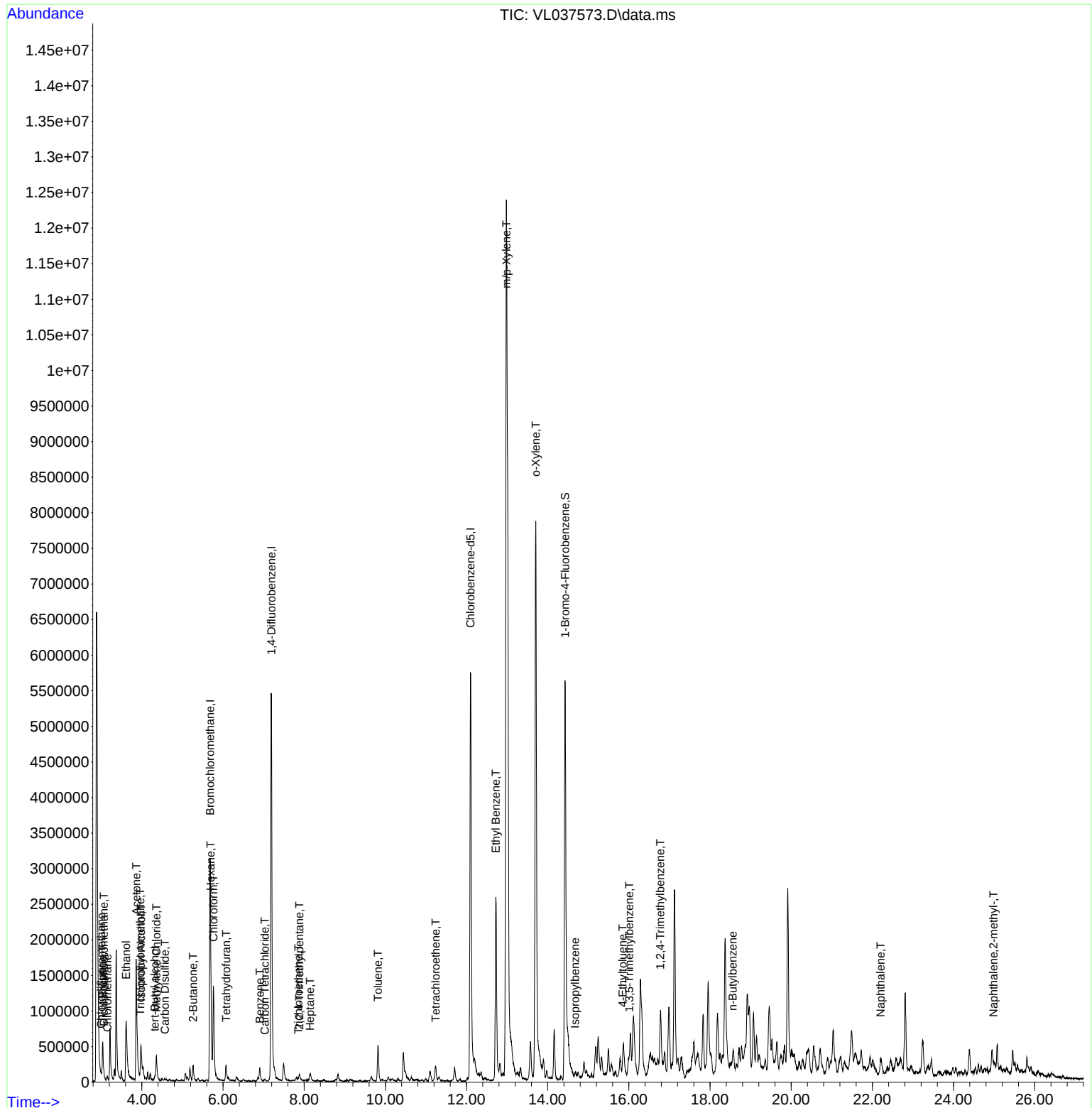
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
Data File : VL037573.D
Acq On : 8 Sep 2021 15:37
Operator : SY/AP
Sample : M3662-01
Misc : 400mL/MSVOA_L
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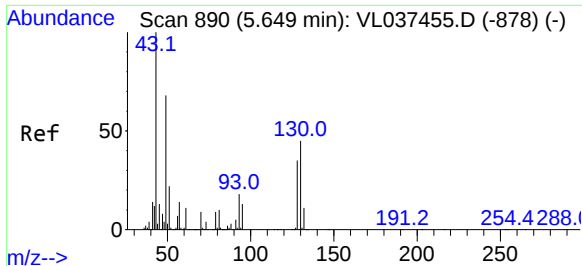
Instrument :
MSVOA_L
ClientSampled :
IA-1

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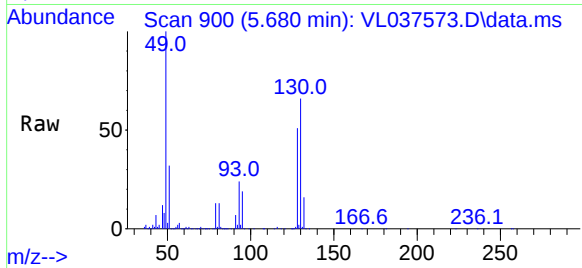
Quant Time: Sep 09 09:12:21 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.680 min Scan# 900
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

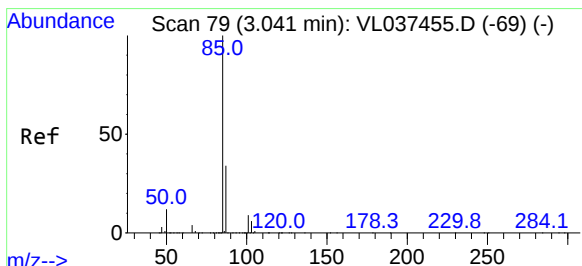
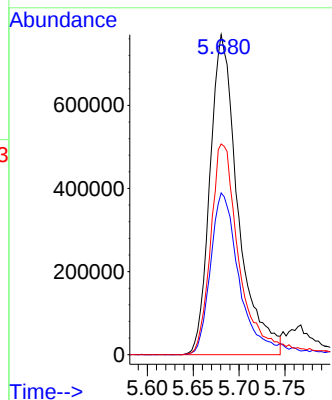
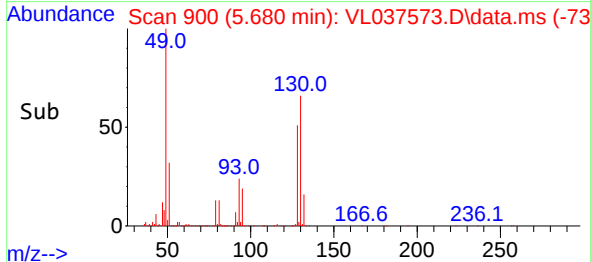
Instrument :
MSVOA_L
ClientSampled :
IA-1



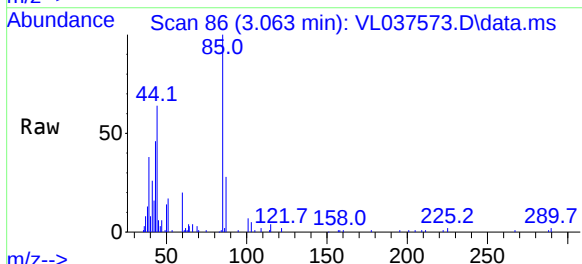
Tgt Ion: 49 Resp: 1636548
Ion Ratio Lower Upper
49 100
128 54.6 27.5 82.4
130 70.4 34.0 101.8

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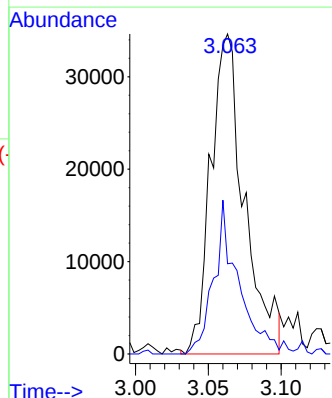
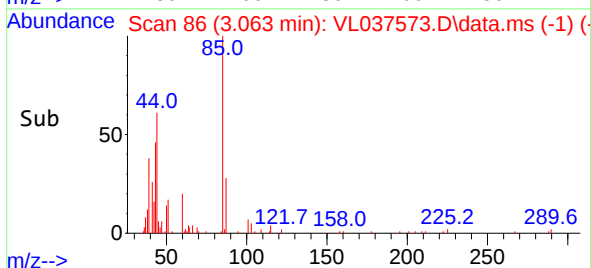
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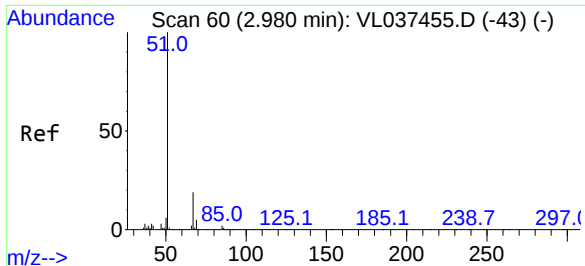


#2
Dichlorodifluoromethane
Concen: 0.211 ppbv m
RT: 3.063 min Scan# 86
Delta R.T. 0.022 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



Tgt Ion: 85 Resp: 55468
Ion Ratio Lower Upper
85 100
87 28.2 27.6 41.4





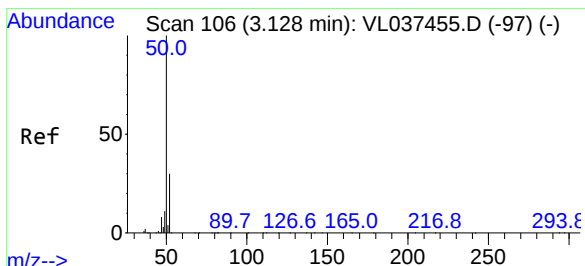
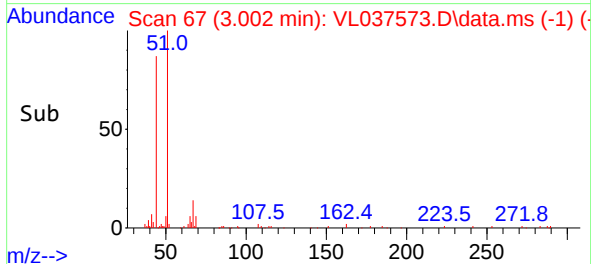
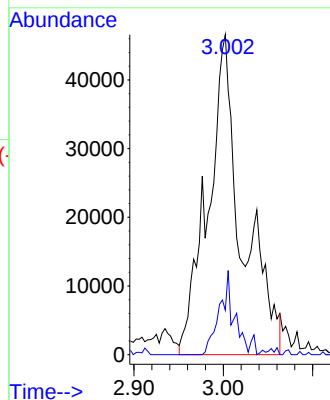
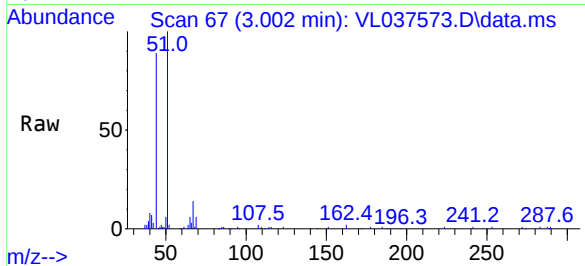
#3
Chlorodifluoromethane
Concen: 0.391 ppbv m
RT: 3.002 min Scan# 67
Delta R.T. 0.022 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 51 Resp: 122586
Ion Ratio Lower Upper
51 100
67 0.6 14.2 21.2#

Instrument :
MSVOA_L
ClientSampleId :
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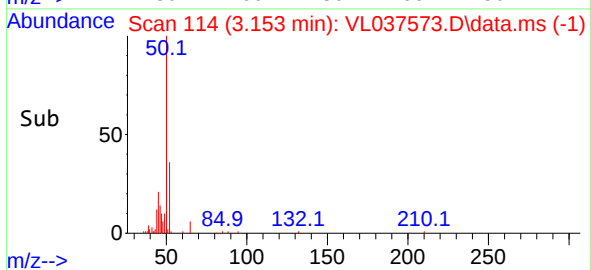
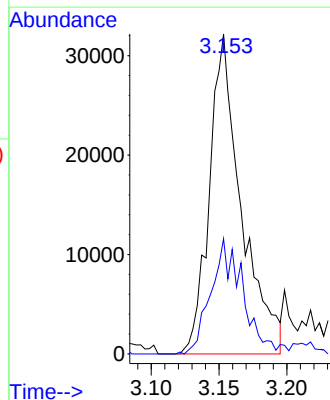
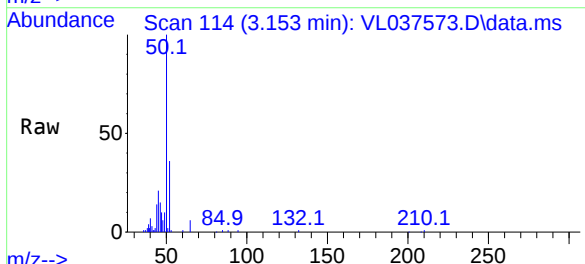
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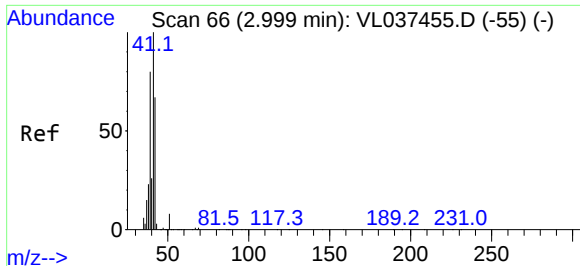
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#4
Chloromethane
Concen: 0.470 ppbv
RT: 3.153 min Scan# 114
Delta R.T. 0.026 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 50 Resp: 52642
Ion Ratio Lower Upper
50 100
52 35.4 24.0 36.0





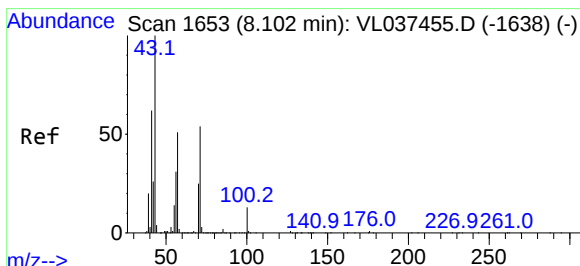
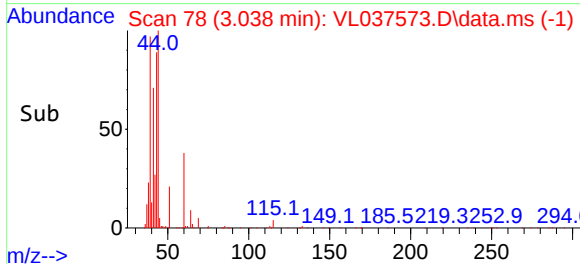
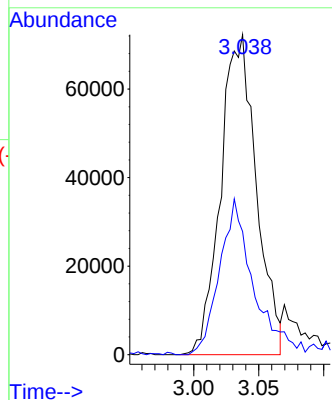
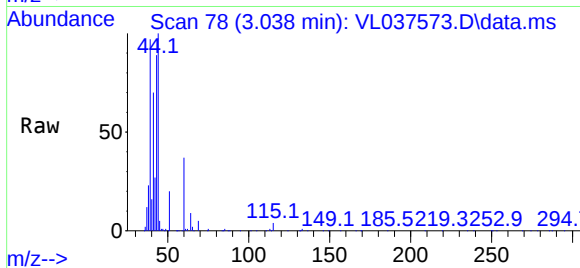
#9
Propene
Concen: 1.229 ppbv
RT: 3.038 min Scan# 78
Delta R.T. 0.038 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 41 Resp: 137797
Ion Ratio Lower Upper
41 100
42 48.9 53.7 80.5#

Instrument :
MSVOA_L
ClientSampled :
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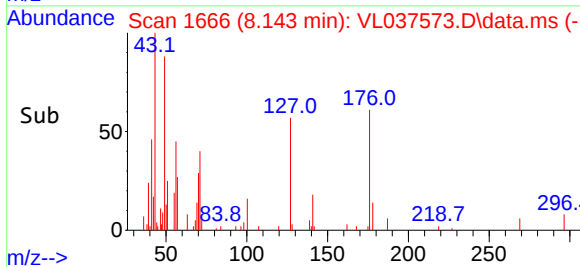
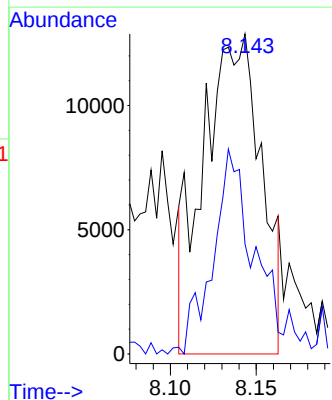
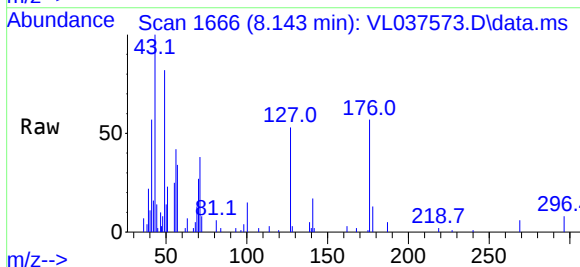
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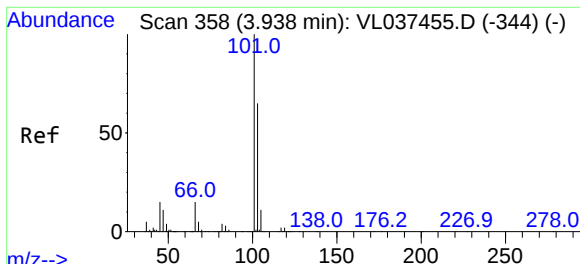
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#10
Heptane
Concen: 0.117 ppbv m
RT: 8.143 min Scan# 1666
Delta R.T. 0.042 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

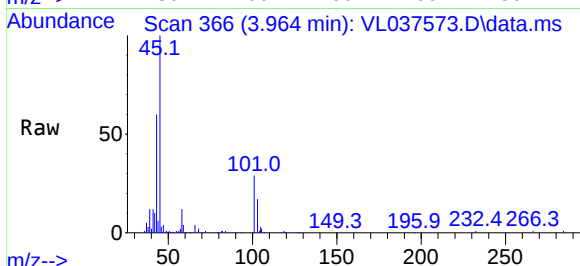
Tgt Ion: 43 Resp: 30160
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.6#





#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 3.964 min Scan# 366
Delta R.T. 0.026 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

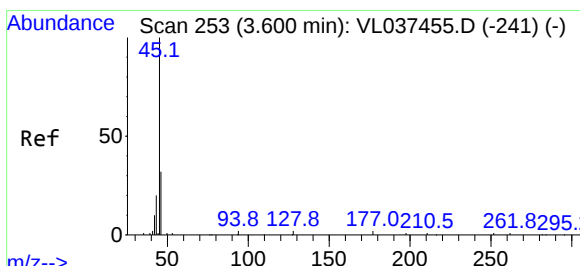
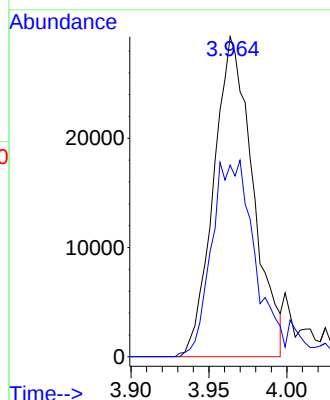
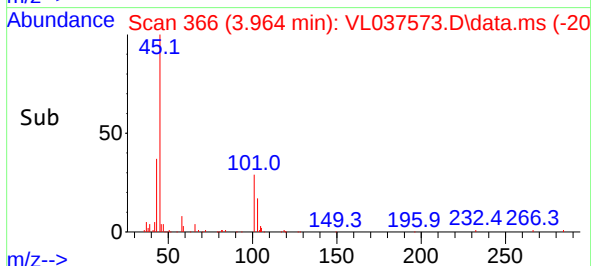
Instrument :
MSVOA_L
ClientSampleId :
IA-1



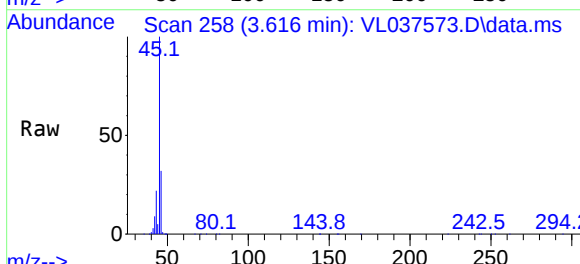
Tgt Ion:101 Resp: 51223
Ion Ratio Lower Upper
101 100
103 58.7 51.8 77.6

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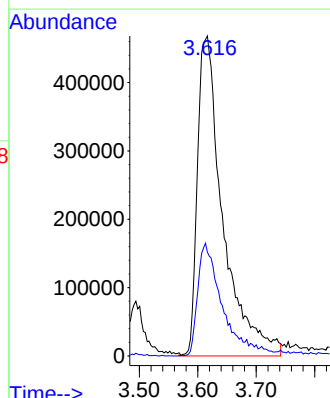
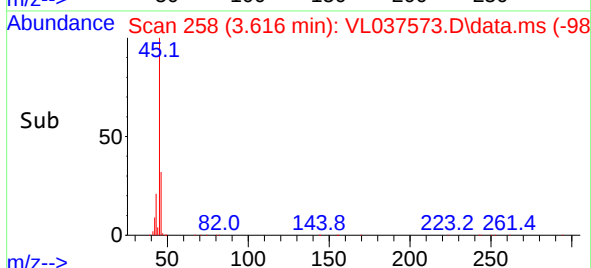
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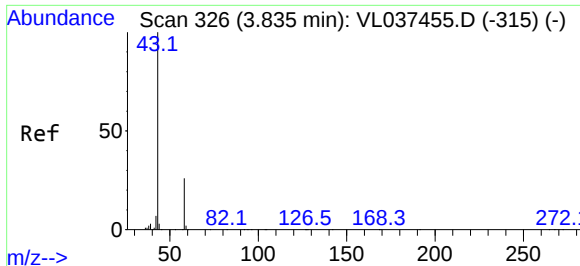


#13
Ethanol
Concen: 129.903 ppbv m
RT: 3.616 min Scan# 258
Delta R.T. 0.016 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



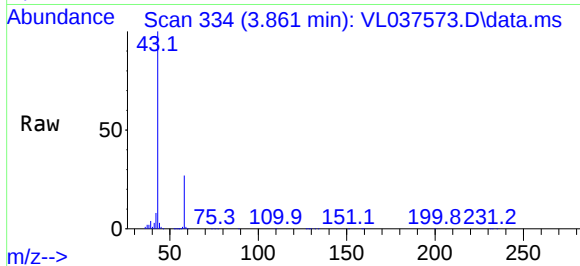
Tgt Ion: 45 Resp: 1417351
Ion Ratio Lower Upper
45 100
46 34.3 14.1 56.5





#15
Acetone
Concen: 12.722 ppbv
RT: 3.861 min Scan# 334
Delta R.T. 0.026 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

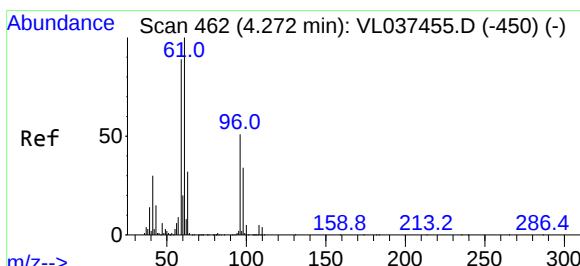
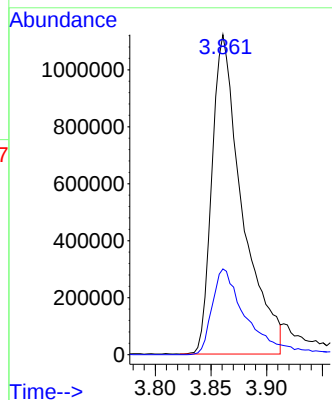
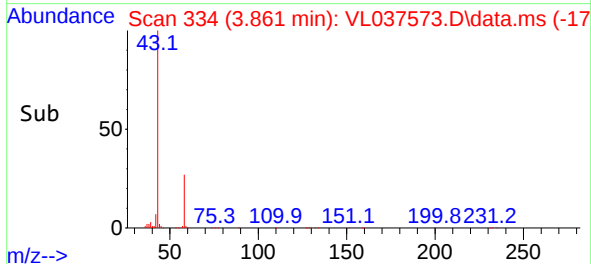
Instrument :
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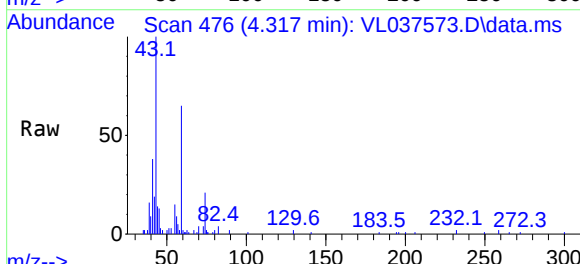
Tgt Ion: 43 Resp: 2118915
Ion Ratio Lower Upper
43 100
58 31.0 24.8 37.2

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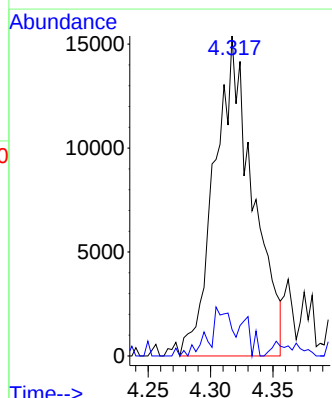
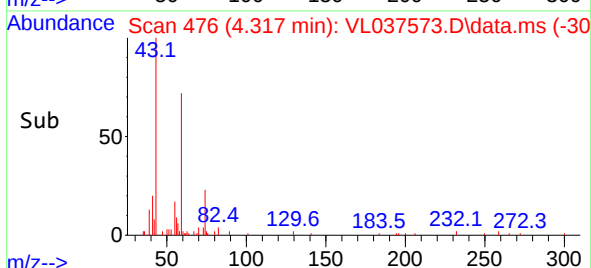
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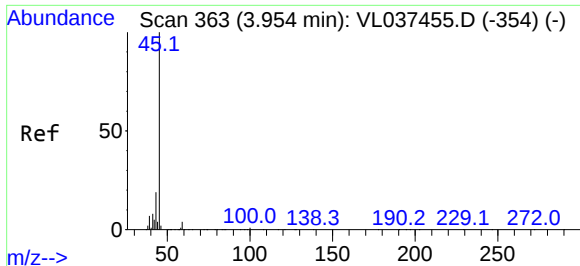


#17
tert-Butyl alcohol
Concen: 0.216 ppbv
RT: 4.317 min Scan# 476
Delta R.T. 0.045 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



Tgt Ion: 59 Resp: 32899
Ion Ratio Lower Upper
59 100
57 12.3 8.3 12.5





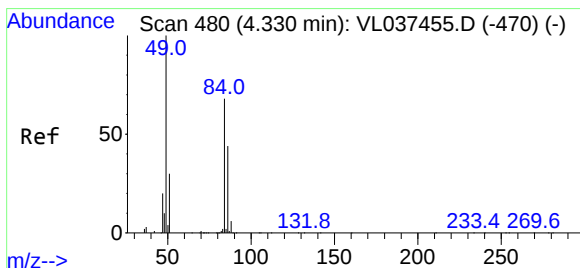
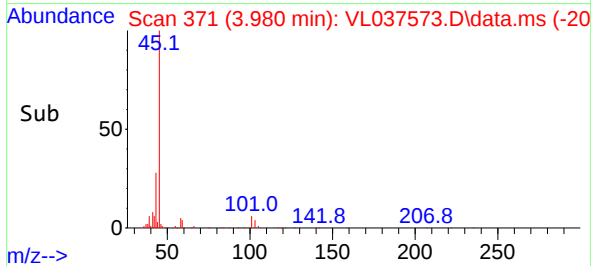
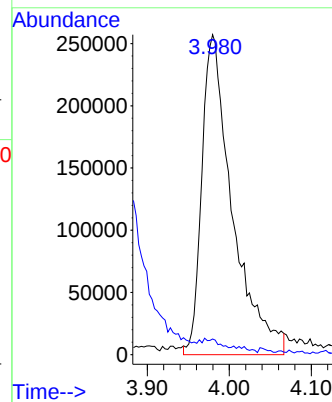
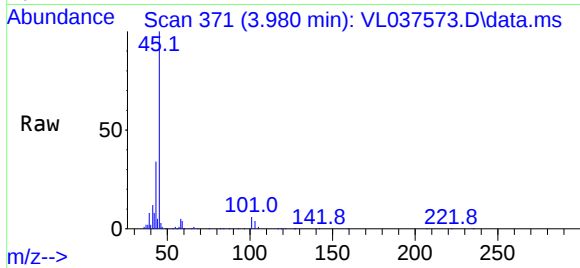
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Isopropyl Alcohol
Concen: 6.956 ppbv m
RT: 3.980 min Scan# 371
Delta R.T. 0.026 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tgt Ion: 45 Resp: 663758
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#

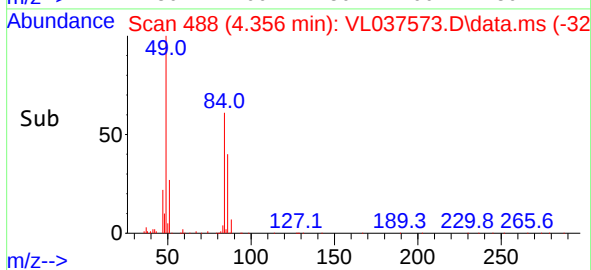
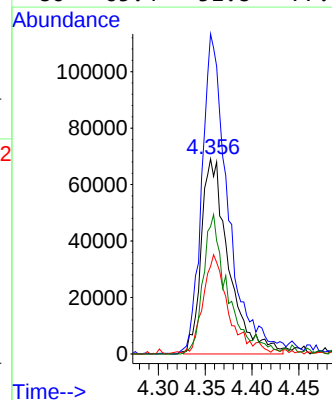
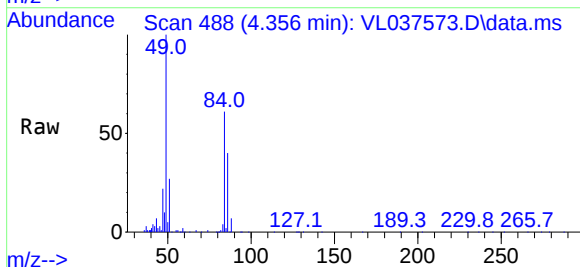
Manual Integrations
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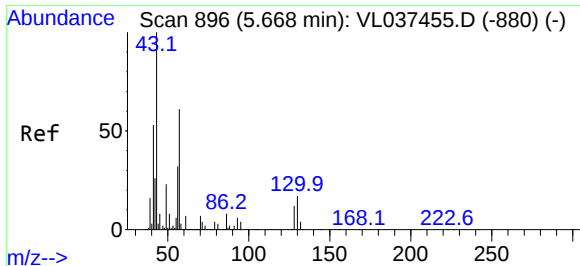
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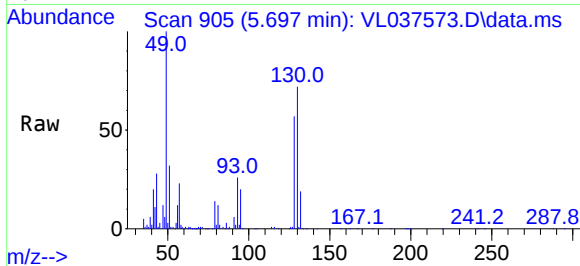
#20
Methylene Chloride
Concen: 1.688 ppbv m
RT: 4.356 min Scan# 488
Delta R.T. 0.026 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 84 Resp: 140776
Ion Ratio Lower Upper
84 100
49 164.1 118.2 177.2
51 44.9 36.6 55.0
86 65.4 51.8 77.6



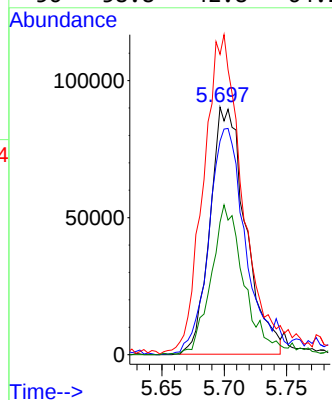


#26
Hexane
Concen: 0.865 ppbv
RT: 5.697 min Scan# 905
Delta R.T. 0.029 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



Tgt Ion: 57 Resp: 178773

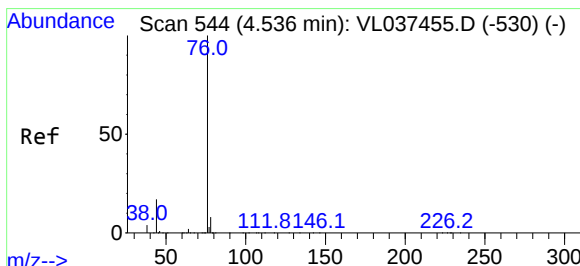
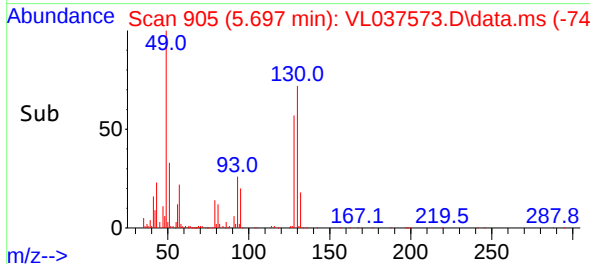
Ion	Ratio	Lower	Upper
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41	100.3	72.3	108.5
43	153.2	172.3	258.5#
56	58.8	42.8	64.2



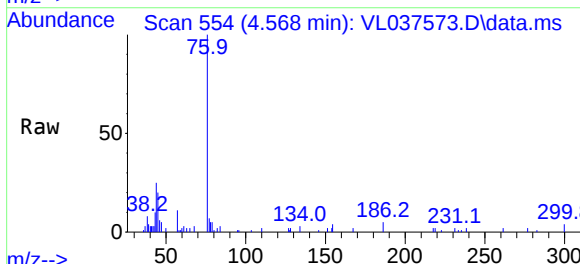
Instrument :
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9/10/2021 10:52:28 AM

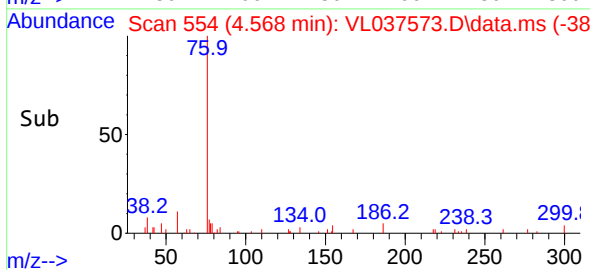
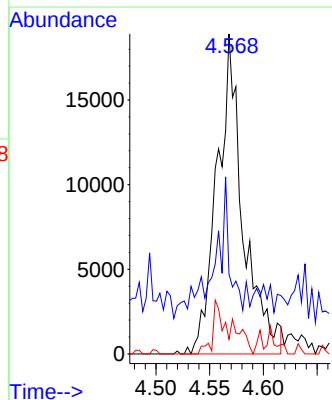


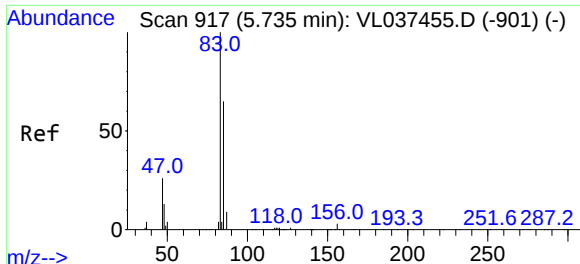
#27
Carbon Disulfide
Concen: 0.173 ppbv m
RT: 4.568 min Scan# 554
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



Tgt Ion: 76 Resp: 31907

Ion	Ratio	Lower	Upper
76	100		
44	20.7	13.9	20.9
78	0.0	7.9	11.9#





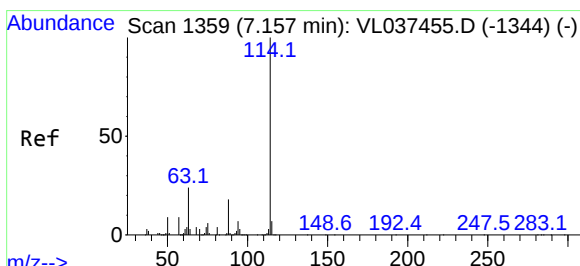
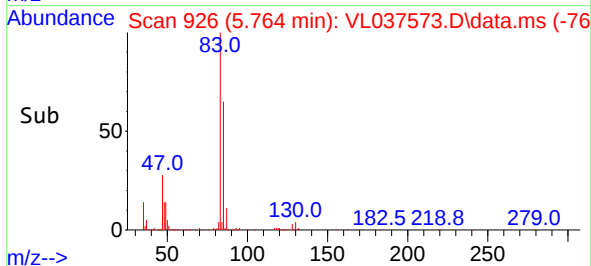
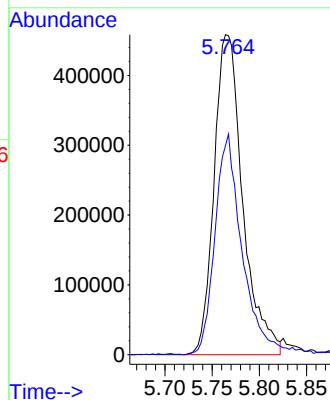
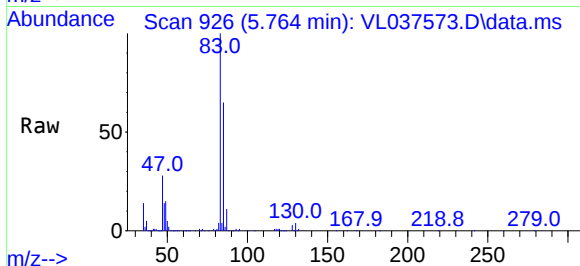
#29
Chloroform
Concen: 3.297 ppbv
RT: 5.764 min Scan# 926
Delta R.T. 0.029 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tgt Ion: 83 Resp: 965948
Ion Ratio Lower Upper
83 100
85 65.2 52.3 78.5

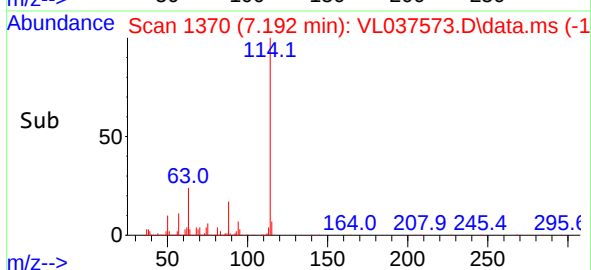
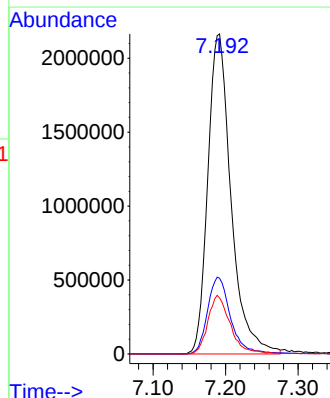
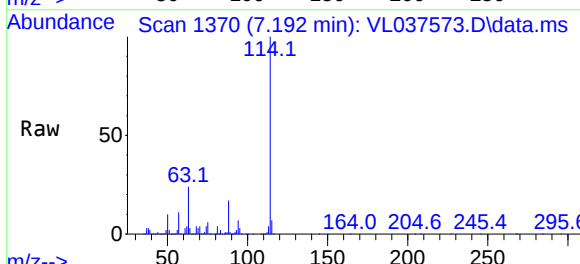
Manual Integrations
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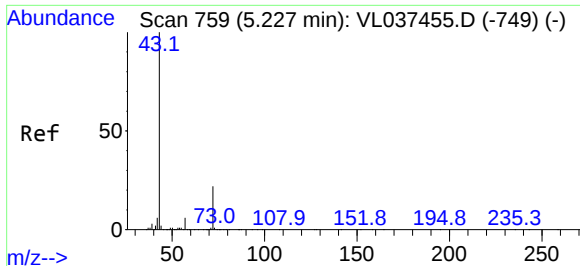
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.192 min Scan# 1370
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 114 Resp: 4815230
Ion Ratio Lower Upper
114 100
63 24.1 19.3 28.9
88 17.9 14.2 21.4





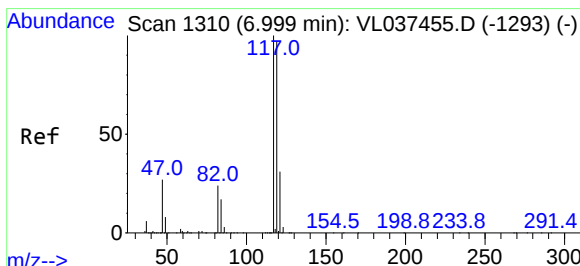
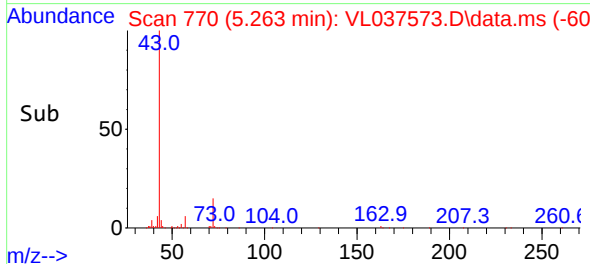
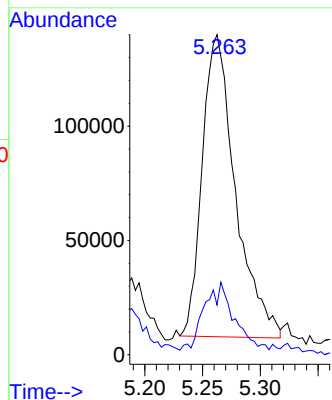
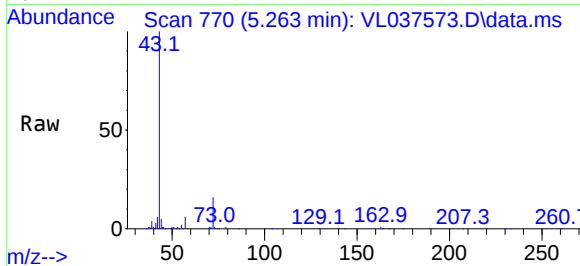
#34
2-Butanone
Concen: 1.346 ppbv
RT: 5.263 min Scan# 770
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 43 Resp: 264682
Ion Ratio Lower Upper
43 100
72 26.6 17.4 26.0#

Instrument :
MSVOA_L
ClientSampled :
IA-1

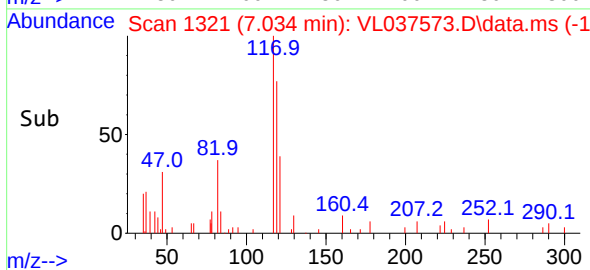
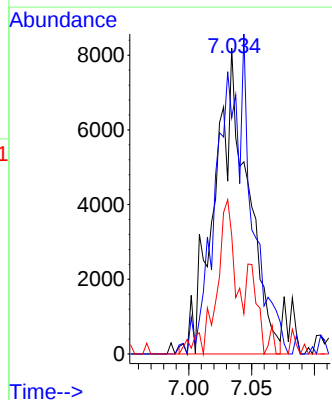
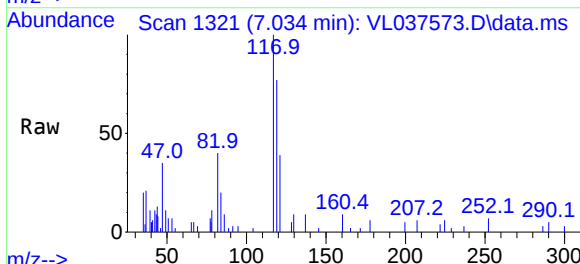
Manual Integrations
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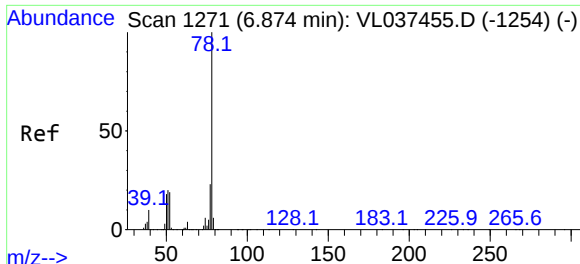
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#35
Carbon Tetrachloride
Concen: 0.053 ppbv m
RT: 7.034 min Scan# 1321
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

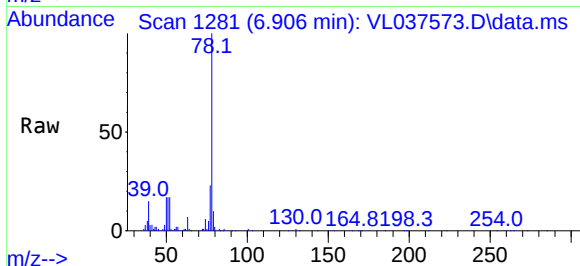
Tgt Ion: 117 Resp: 14974
Ion Ratio Lower Upper
117 100
119 77.2 77.3 115.9#
121 38.8 25.2 37.8#





#36
Benzene
Concen: 0.395 ppbv
RT: 6.906 min Scan# 1281
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Instrument :
MSVOA_L
ClientSampled :
IA-1

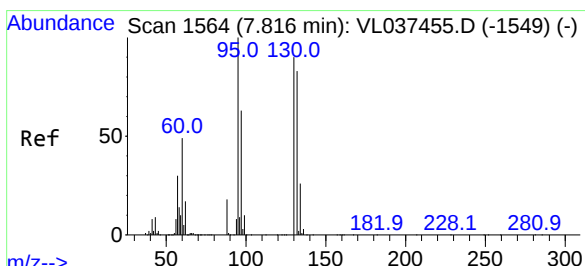
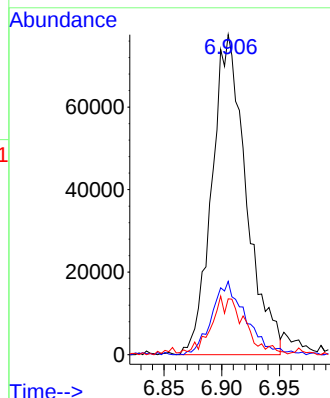
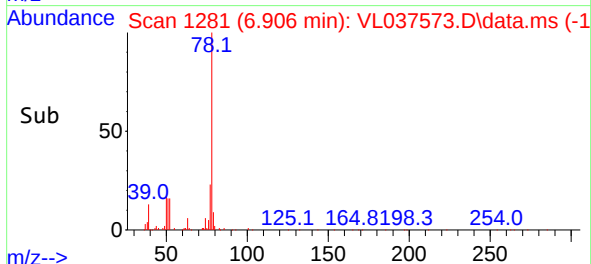


Tgt Ion: 78 Resp: 159815

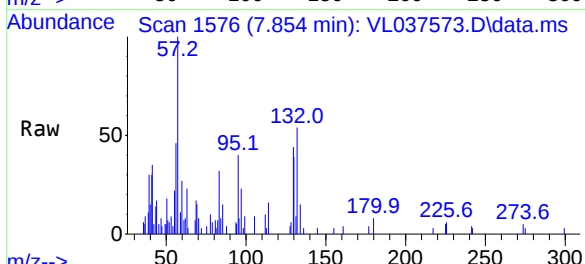
Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.2	27.4
50	16.5	14.6	21.8

Manual Integrations
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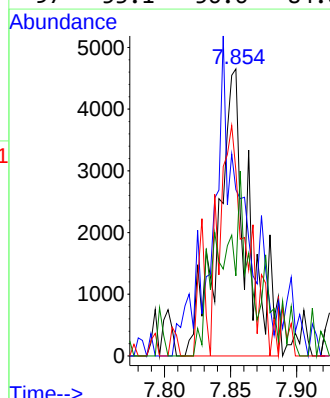
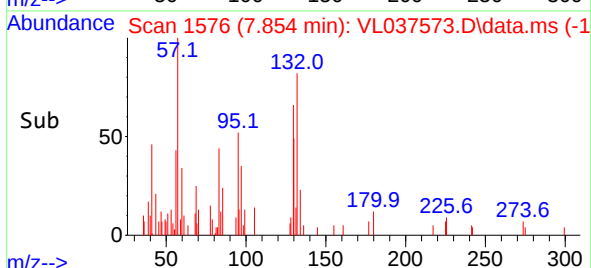


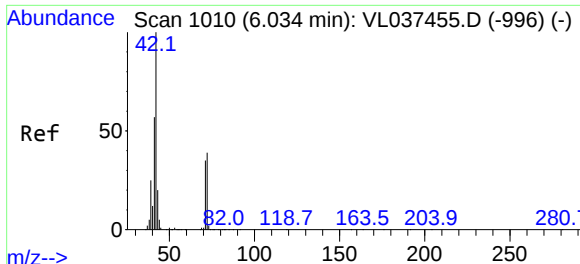
#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 7.854 min Scan# 1576
Delta R.T. 0.038 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



Tgt Ion: 130 Resp: 7371

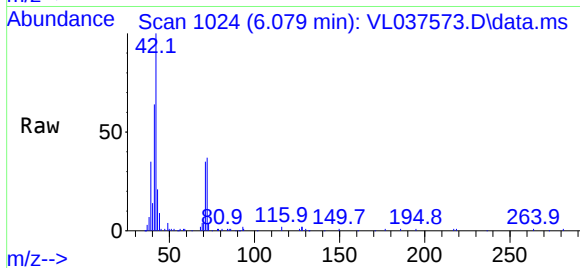
Ion	Ratio	Lower	Upper
130	100		
95	91.2	89.2	133.8
132	123.0	74.0	111.0#
97	53.1	56.6	84.8#





#41
Tetrahydrofuran
Concen: 1.571 ppbv m
RT: 6.079 min Scan# 1024
Delta R.T. 0.045 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

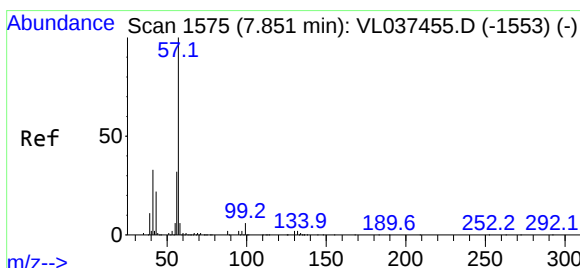
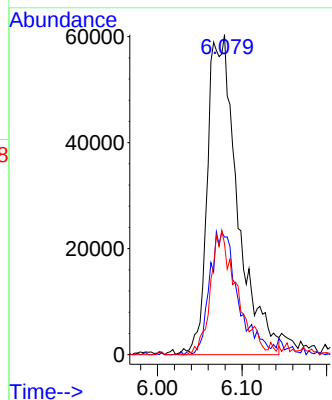
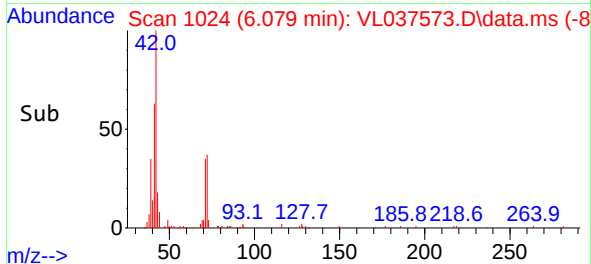
Instrument :
MSVOA_L
ClientSampled :
IA-1



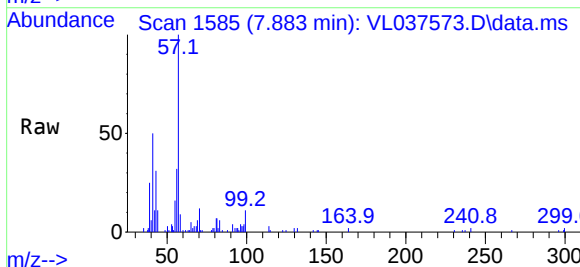
Tgt Ion: 42 Resp: 148820
Ion Ratio Lower Upper
42 100
72 38.8 32.2 48.4
71 0.0 30.5 45.7#

Manual Integrations
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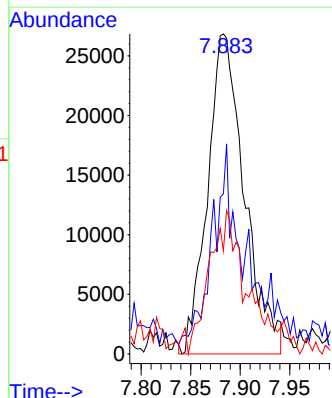
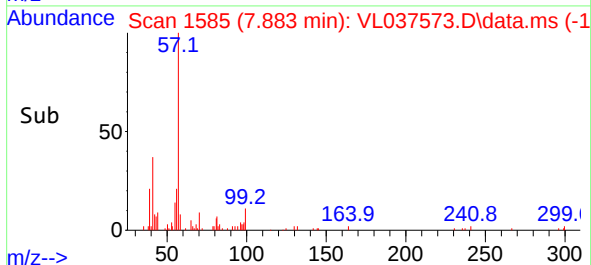
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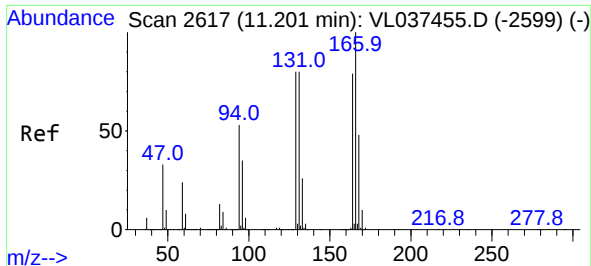


#44
2,2,4-Trimethylpentane
Concen: 0.102 ppbv m
RT: 7.883 min Scan# 1585
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37



Tgt Ion: 57 Resp: 69278
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.4#
56 0.0 25.4 38.2#





#52
Tetrachloroethene
Concen: 0.300 ppbv m
RT: 11.240 min Scan# 2629
Delta R.T. 0.038 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

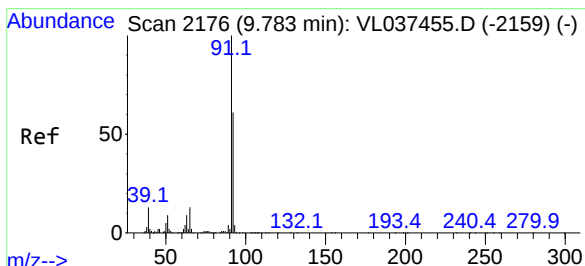
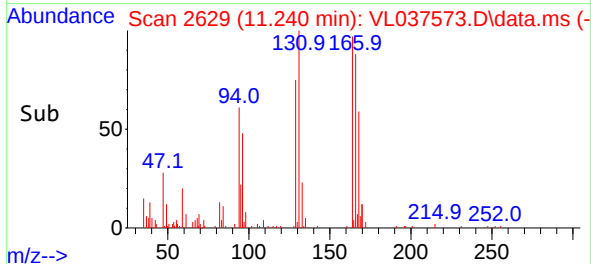
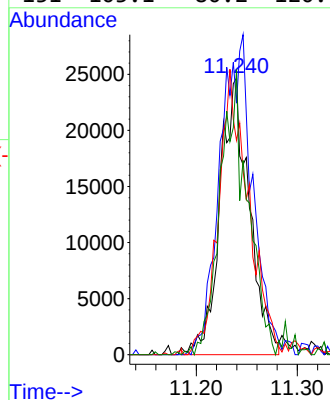
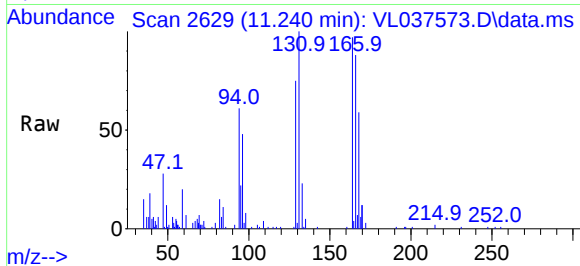
Tgt Ion: 164 Resp: 49721

Ion	Ratio	Lower	Upper
164	100		
166	90.9	100.7	151.1#
129	77.5	80.9	121.3#
131	103.1	80.2	120.4

Instrument :
MSVOA_L
ClientSampled :
IA-1

Manual Integrations
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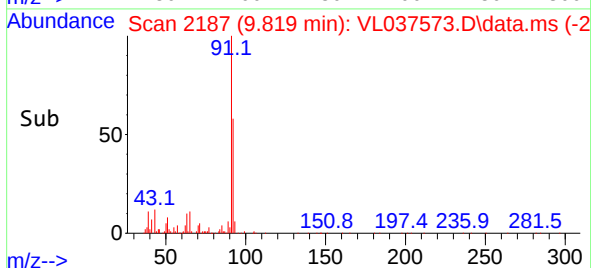
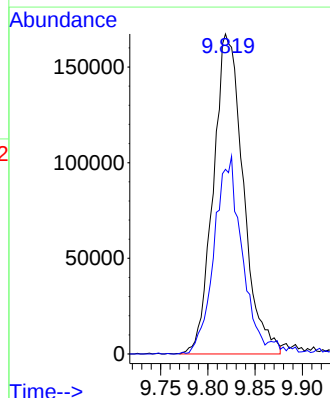
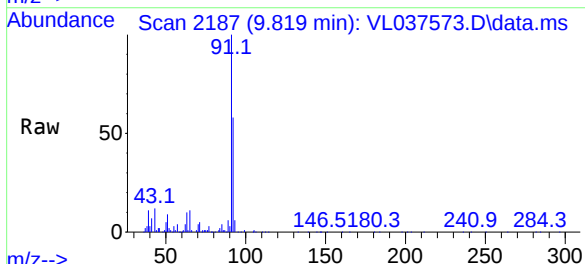
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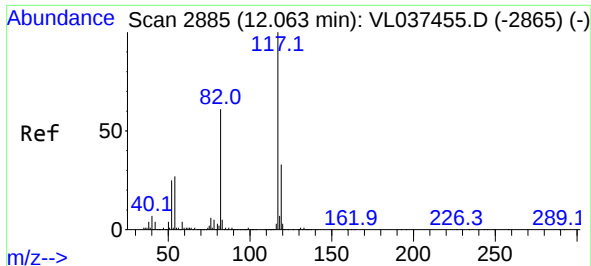


#53
Toluene
Concen: 0.797 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 91 Resp: 368529

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.8	73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.098 min Scan# 2896
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

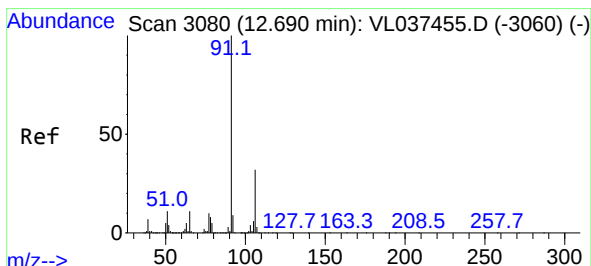
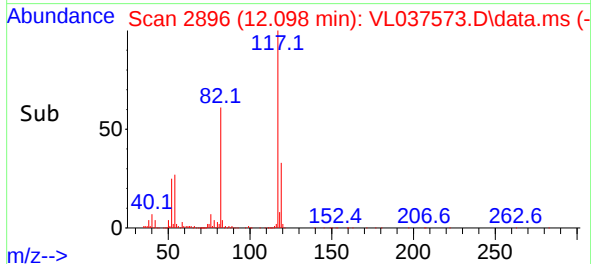
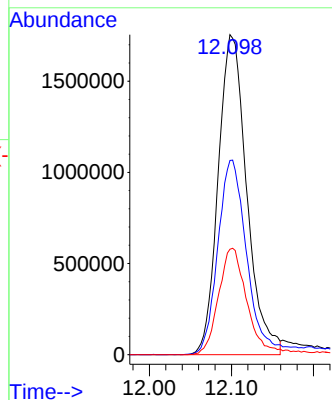
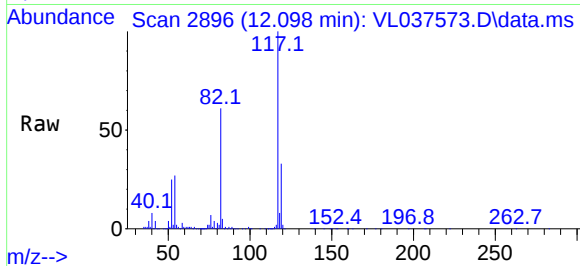
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tgt Ion:117 Resp: 4251072

Ion	Ratio	Lower	Upper
117	100		
82	66.5	52.9	79.3
119	33.9	24.8	37.2

Manual Integrations
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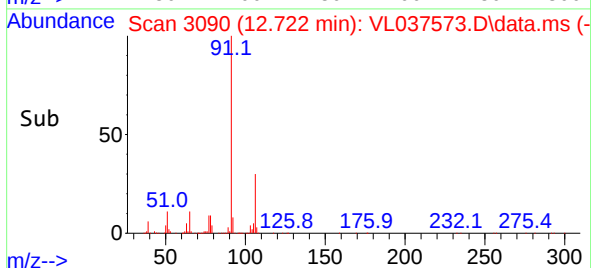
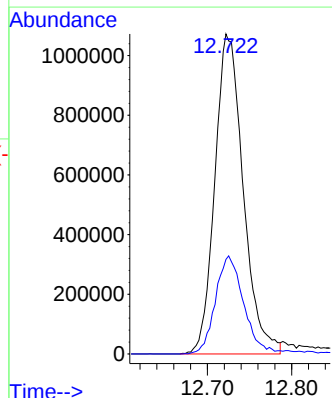
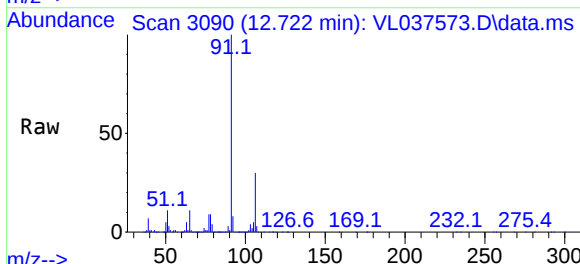
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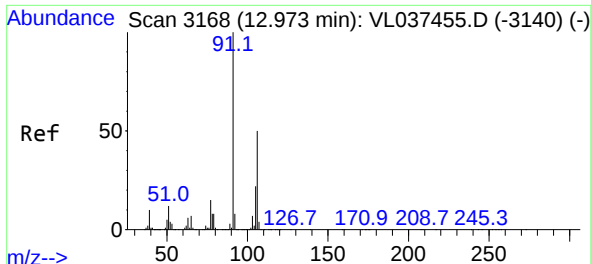


#58
Ethyl Benzene
Concen: 4.248 ppbv
RT: 12.722 min Scan# 3090
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 91 Resp: 2506035

Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.7	38.5





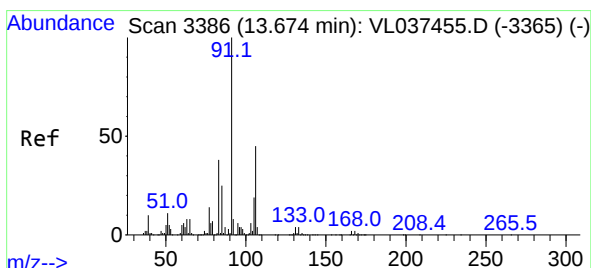
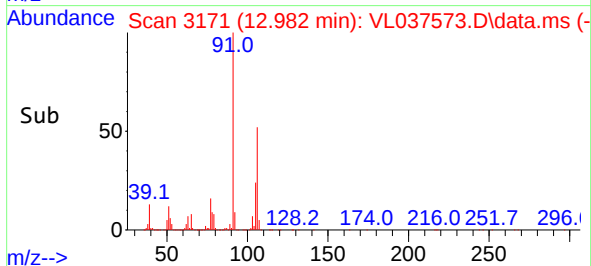
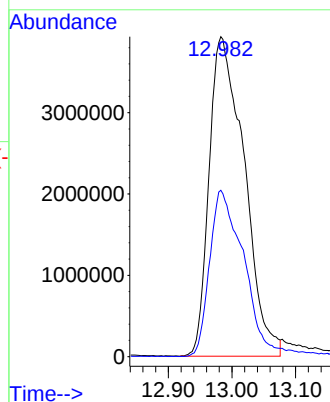
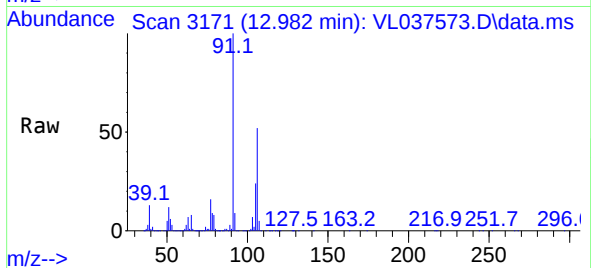
#59
m/p-Xylene
Concen: 29.352 ppbv
RT: 12.982 min Scan# 3171
Delta R.T. 0.009 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 91 Resp:15011484
Ion Ratio Lower Upper
91 100
106 52.2 36.9 55.3

Instrument :
MSVOA_L
ClientSampleId :
IA-1

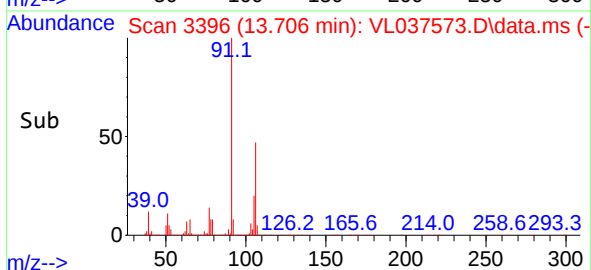
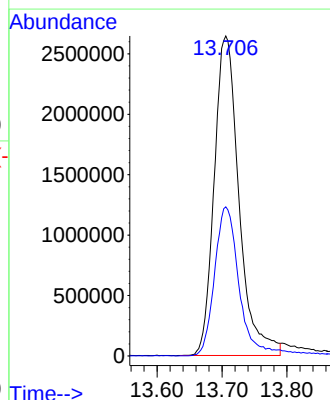
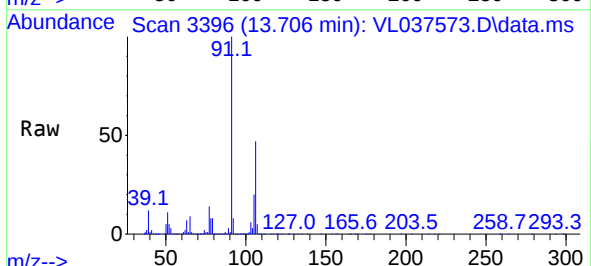
Manual Integrations
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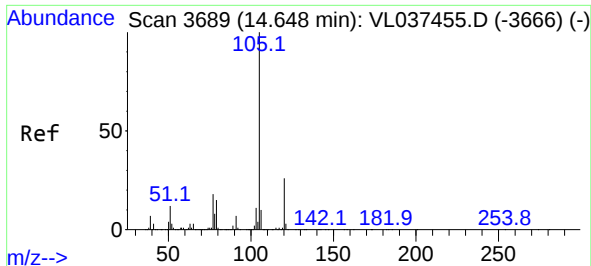
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#60
o-Xylene
Concen: 14.663 ppbv
RT: 13.706 min Scan# 3396
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 91 Resp: 6999387
Ion Ratio Lower Upper
91 100
106 47.8 23.7 71.1





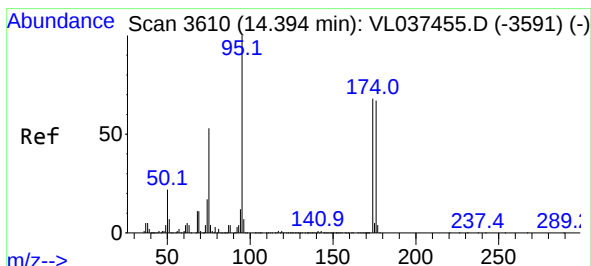
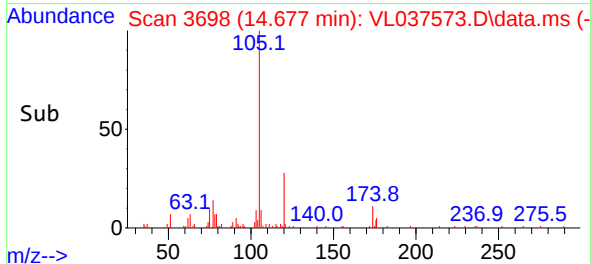
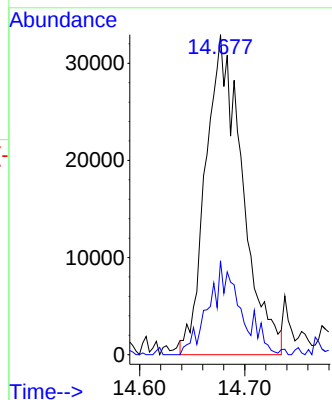
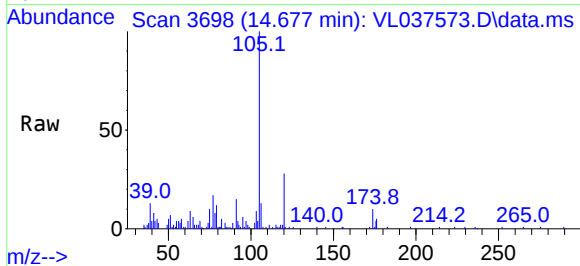
#62
Isopropylbenzene
Concen: 0.118 ppbv m
RT: 14.677 min Scan# 3698
Delta R.T. 0.029 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 105 Resp: 79555
Ion Ratio Lower Upper
105 100
120 0.0 21.5 32.3#

Instrument :
MSVOA_L
ClientSampleId :
IA-1

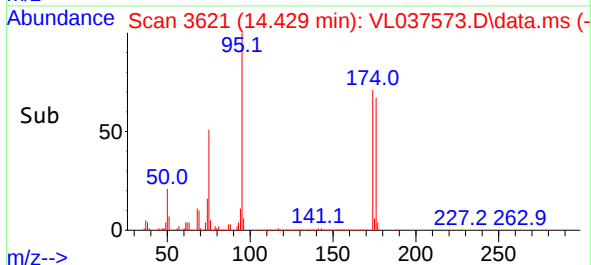
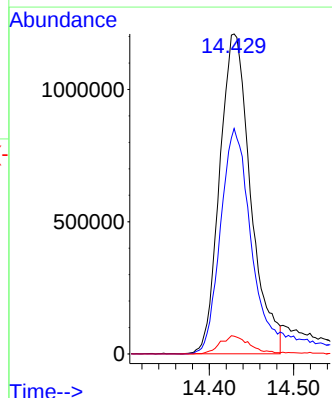
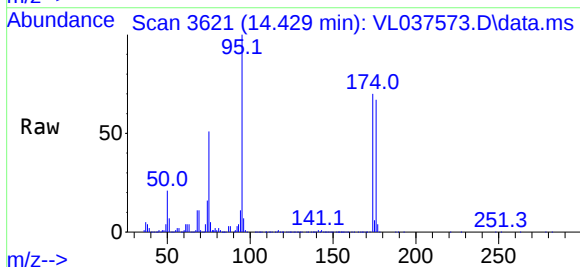
Manual Integrations
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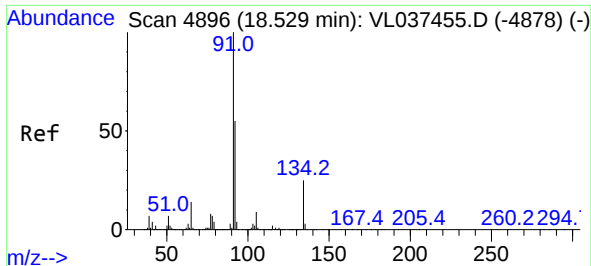
MMDadoda
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.231 ppbv
RT: 14.429 min Scan# 3621
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 95 Resp: 3089987
Ion Ratio Lower Upper
95 100
174 77.6 59.6 89.4
175 6.0 4.6 7.0





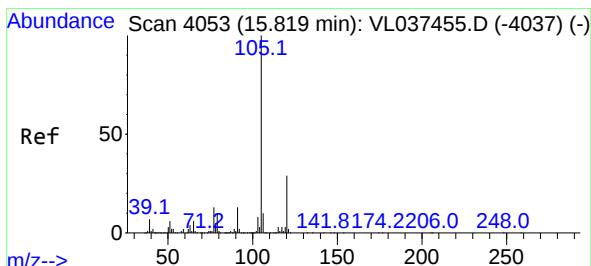
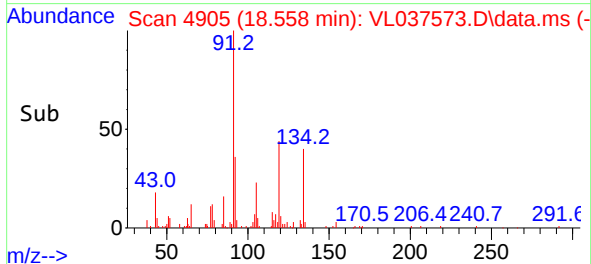
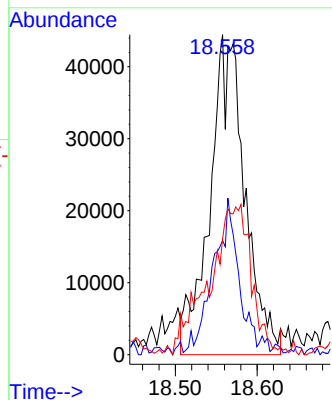
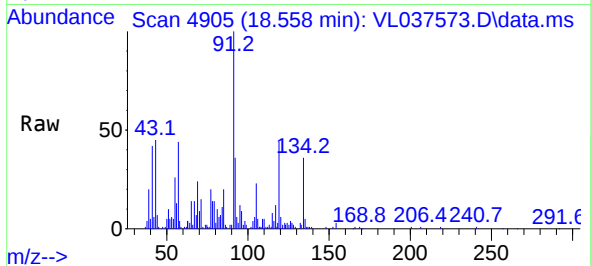
#70
n-Butylbenzene
Concen: 0.199 ppbv m
RT: 18.558 min Scan# 4905
Delta R.T. 0.029 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 91 Resp: 132895
Ion Ratio Lower Upper
91 100
92 0.0 44.0 66.0#
134 57.4 19.5 29.3#

Instrument :
MSVOA_L
ClientSampled :
IA-1

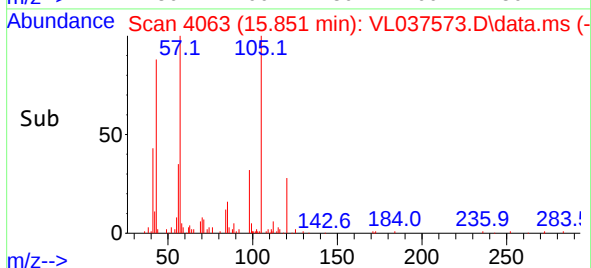
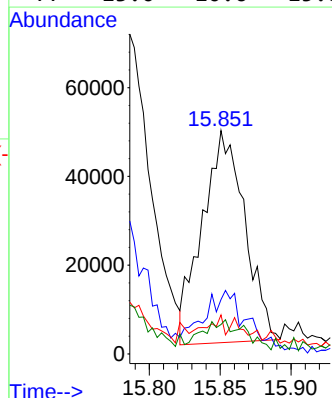
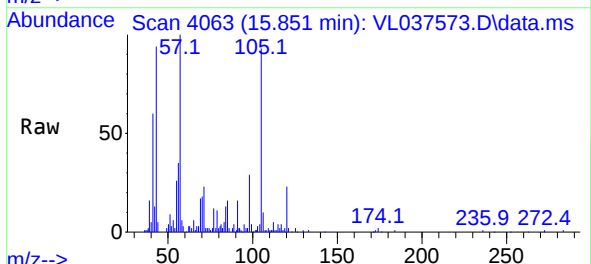
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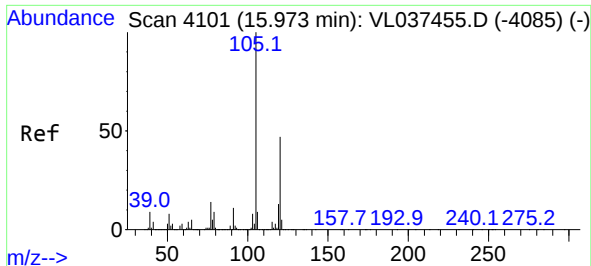
MMDadoda
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#72
4-Ethyltoluene
Concen: 0.176 ppbv
RT: 15.851 min Scan# 4063
Delta R.T. 0.032 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion: 105 Resp: 99829
Ion Ratio Lower Upper
105 100
120 34.5 24.7 37.1
91 17.9 9.8 14.8#
77 13.0 10.6 15.8





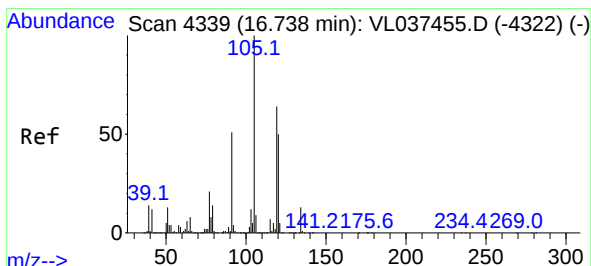
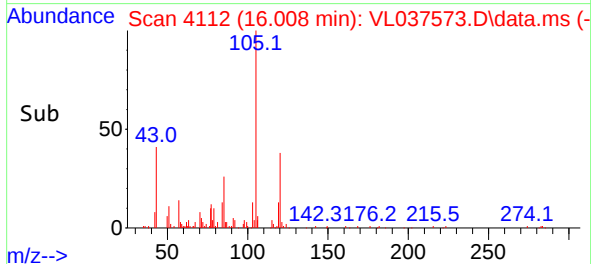
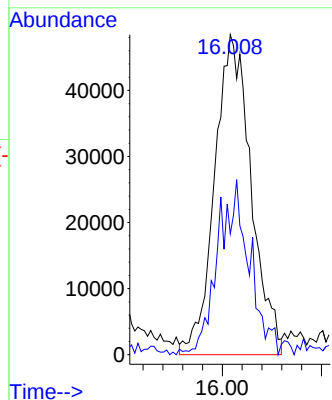
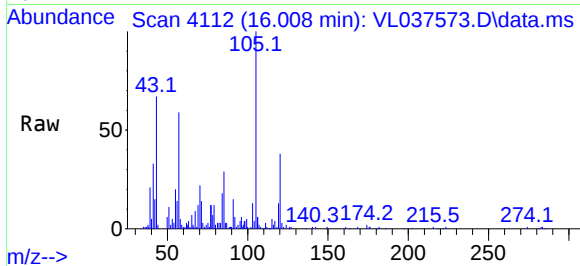
#73
1,3,5-Trimethylbenzene
Concen: 0.234 ppbv m
RT: 16.008 min Scan# 4112
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion:105 Resp: 123811
Ion Ratio Lower Upper
105 100
120 37.8 37.6 56.4

Instrument :
MSVOA_L
ClientSampled :
IA-1

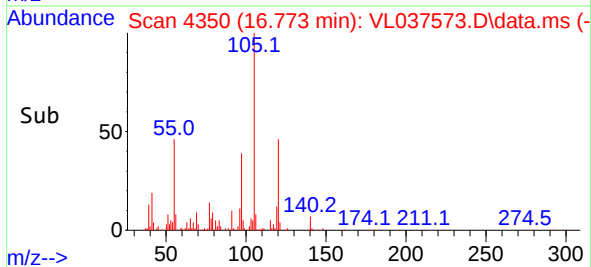
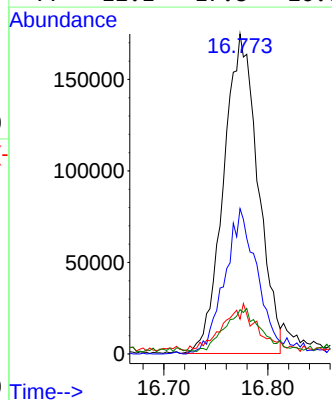
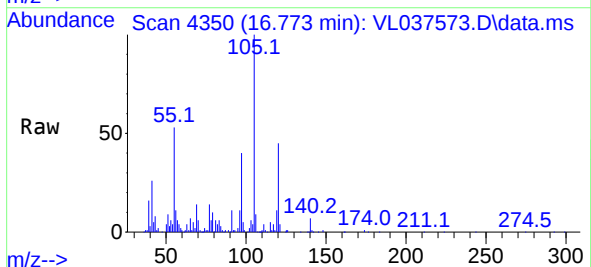
Manual Integrations
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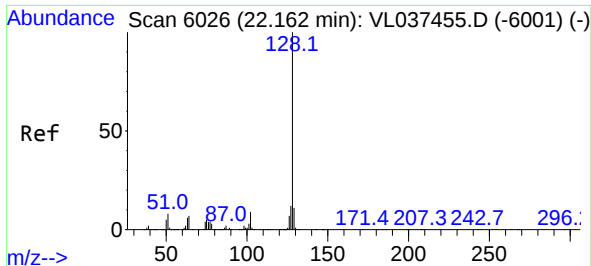
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#74
1,2,4-Trimethylbenzene
Concen: 0.716 ppbv
RT: 16.773 min Scan# 4350
Delta R.T. 0.035 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion:105 Resp: 401994
Ion Ratio Lower Upper
105 100
120 45.3 40.4 60.6
91 9.6 44.6 67.0#
77 12.1 17.8 26.6#





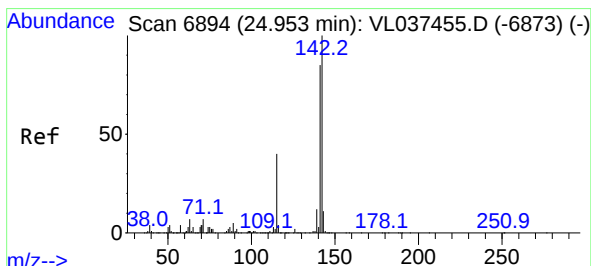
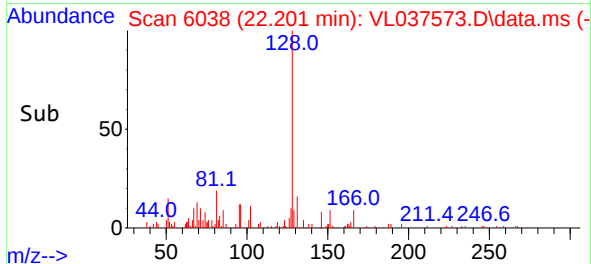
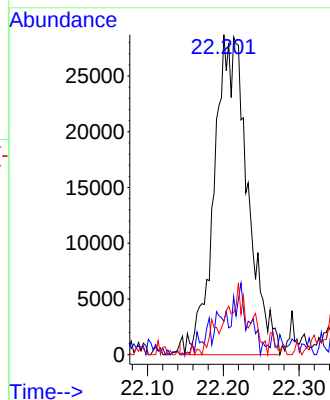
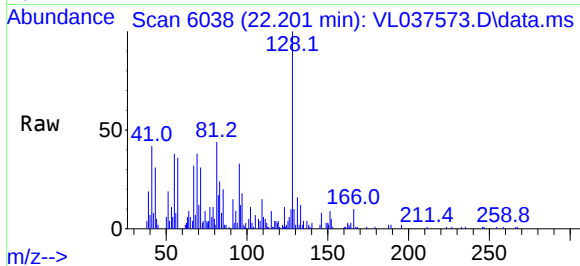
#79
Naphthalene
Concen: 0.235 ppbv m
RT: 22.201 min Scan# 6038
Delta R.T. 0.038 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion:	128	Resp:	88312
Ion Ratio	Lower	Upper	
128	100		
127	10.4	9.4	14.2
129	10.5	8.8	13.2

Instrument :
MSVOA_L
ClientSampled :
IA-1

Manual Integrations
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#80
Naphthalene,2-methyl-
Concen: 0.501 ppbv m
RT: 24.982 min Scan# 6903
Delta R.T. 0.029 min
Lab File: VL037573.D
Acq: 8 Sep 2021 15:37

Tgt Ion:	142	Resp:	52486
Ion Ratio	Lower	Upper	
142	100		
141	9.3	64.7	97.1#
115	12.9	28.4	42.6#

