

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037585.D
 Acq On : 8 Sep 2021 23:57
 Operator : SY/AP
 Sample : M3663-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
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9/10/2021 10:53:33 AM

Quant Time: Sep 09 09:15:18 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	5.674	49	1641185	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.185	114	4785550	10.000	ppbv	0.03
55) Chlorobenzene-d5	12.098	117	4307720	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.430	95	3244001	10.600	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.000%
Target Compounds						
						Qvalue
3) Chlorodifluoromethane	2.967	51	157367	0.501	ppbv	# 65
9) Propene	3.012	41	145323	1.292	ppbv	96
10) Heptane	8.137	43	81273m	0.314	ppbv	
13) Ethanol	3.620	45	87812m	8.025	ppbv	
15) Acetone	3.854	43	5028381	30.105	ppbv	99
17) tert-Butyl alcohol	4.305	59	177816	1.165	ppbv	96
19) Isopropyl Alcohol	3.977	45	170101	1.778	ppbv	# 95
20) Methylene Chloride	4.353	84	478620	5.723	ppbv	93
26) Hexane	5.694	57	588786	2.840	ppbv	# 48
27) Carbon Disulfide	4.562	76	57885	0.313	ppbv	# 96
32) 1,1,1-Trichloroethane	6.517	97	53212m	0.184	ppbv	
34) 2-Butanone	5.256	43	562343	2.878	ppbv	# 88
36) Benzene	6.899	78	166556m	0.414	ppbv	
38) Trichloroethene	7.848	130	123725	0.750	ppbv	93
50) 4-Methyl-2-Pentanone	8.764	43	66803	0.262	ppbv	99
52) Tetrachloroethene	11.233	164	227313	1.379	ppbv	93
53) Toluene	9.819	91	9259479	20.158	ppbv	99
58) Ethyl Benzene	12.729	91	20083796	33.596	ppbv	# 81
59) m/p-Xylene	12.999	91	36439026	70.313	ppbv	# 70
60) o-Xylene	13.709	91	17294530	35.755	ppbv	94
62) Isopropylbenzene	14.684	105	124497m	0.182	ppbv	
64) n-propylbenzene	15.571	120	62829m	0.362	ppbv	
70) n-Butylbenzene	18.568	91	108752m	0.161	ppbv	
72) 4-Ethyltoluene	15.854	105	336261	0.584	ppbv	98
73) 1,3,5-Trimethylbenzene	16.005	105	254195	0.475	ppbv	97
74) 1,2,4-Trimethylbenzene	16.773	105	846271	1.487	ppbv	# 67

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

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

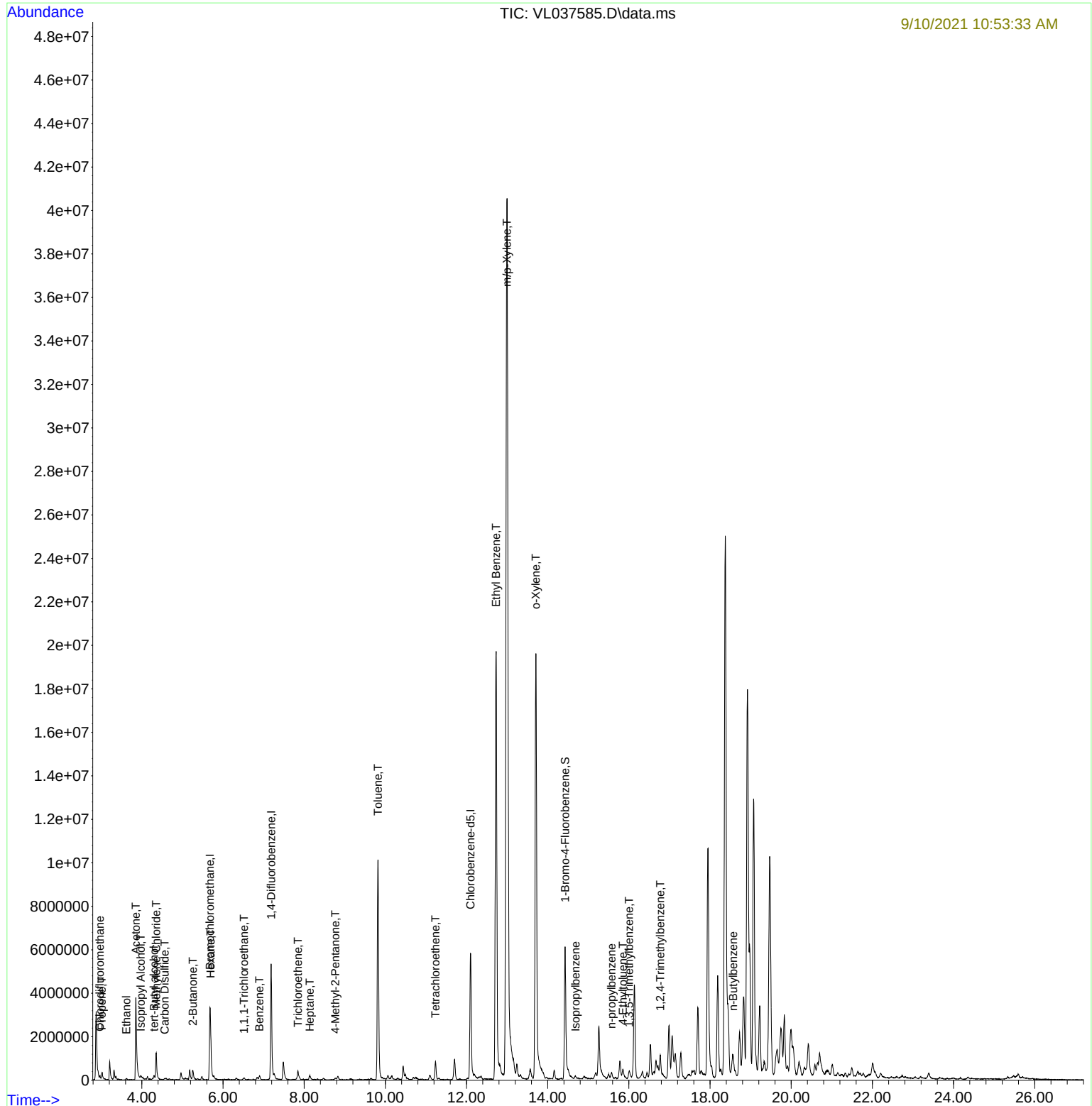
Instrument :
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ClientSampleId :
SV-1

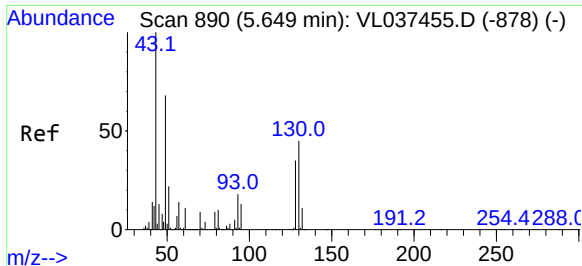
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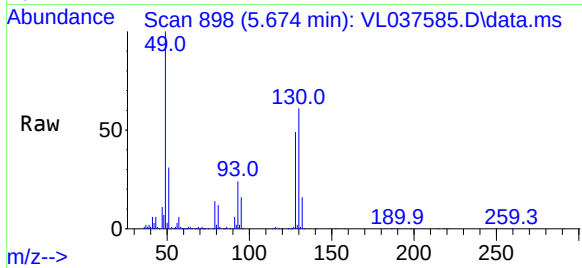
Quant Time: Sep 09 09:15:18 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 898
Delta R.T. 0.026 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Instrument :
MSVOA_L
ClientSampleId :
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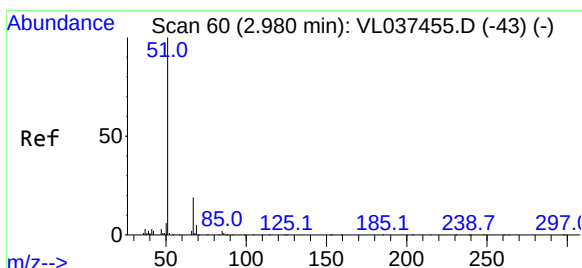
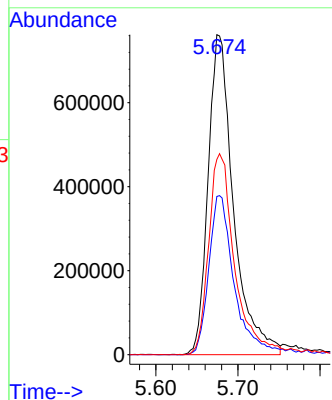
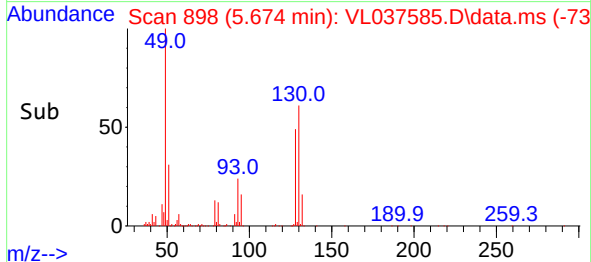
Tgt Ion: 49 Resp: 1641185
Ion Ratio Lower Upper
49 100
128 51.0 27.5 82.4
130 67.1 34.0 101.8

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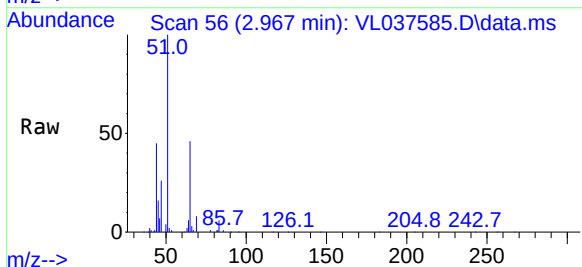
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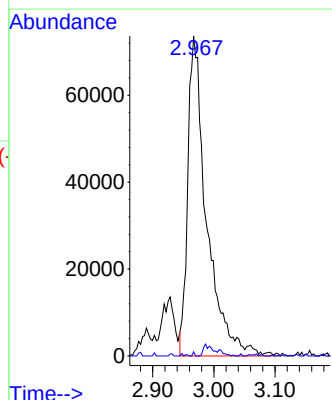
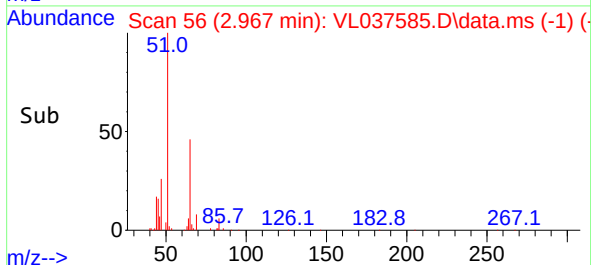
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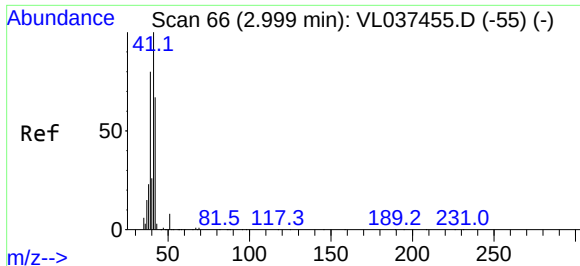


#3
Chlorodifluoromethane
Concen: 0.501 ppbv
RT: 2.967 min Scan# 56
Delta R.T. -0.013 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57



Tgt Ion: 51 Resp: 157367
Ion Ratio Lower Upper
51 100
67 2.5 14.2 21.2#





#9
Propene
Concen: 1.292 ppbv
RT: 3.012 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 41 Resp: 145323
Ion Ratio Lower Upper
41 100
42 63.6 53.7 80.5

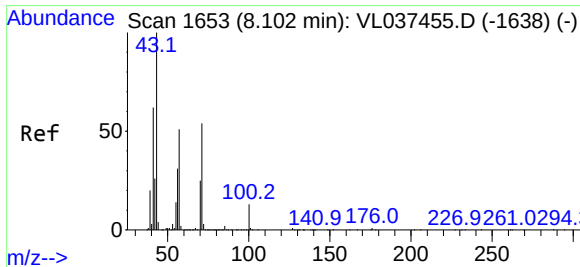
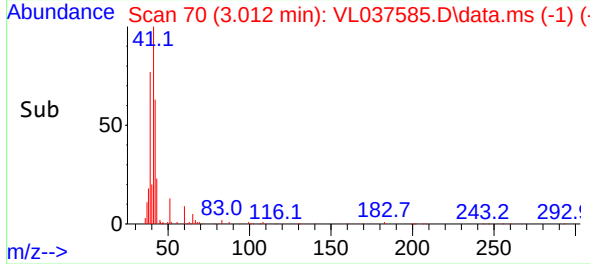
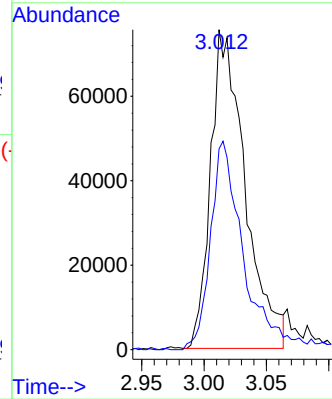
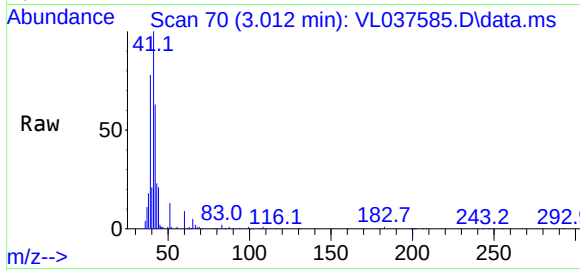
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ClientSampled :
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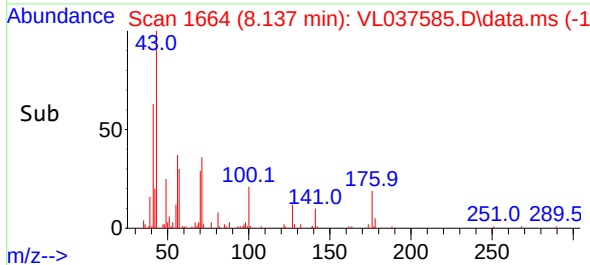
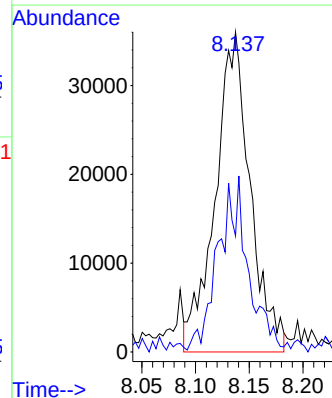
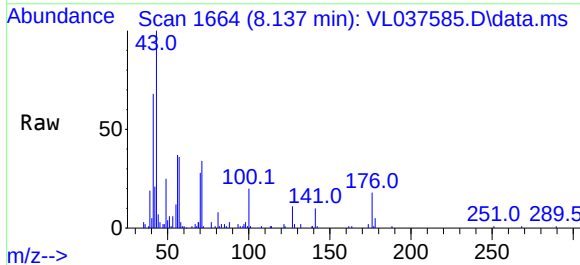
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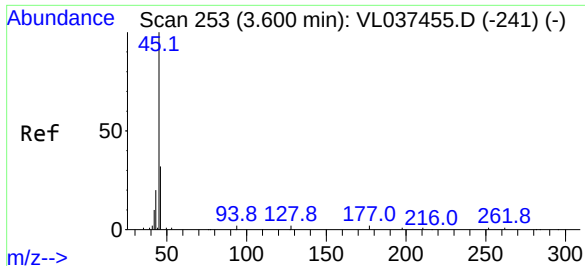
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#10
Heptane
Concen: 0.314 ppbv m
RT: 8.137 min Scan# 1664
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 43 Resp: 81273
Ion Ratio Lower Upper
43 100
57 48.4 41.0 61.6





#13
Ethanol
Concen: 8.025 ppbv m
RT: 3.620 min Scan# 259
Delta R.T. 0.019 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 45 Resp: 87812
Ion Ratio Lower Upper
45 100
46 36.9 14.1 56.5

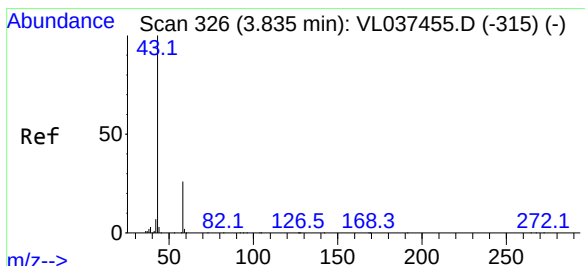
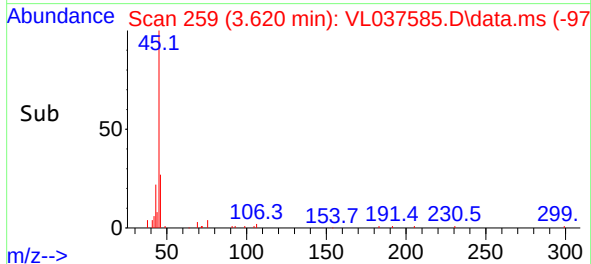
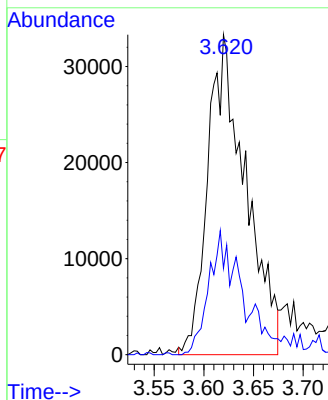
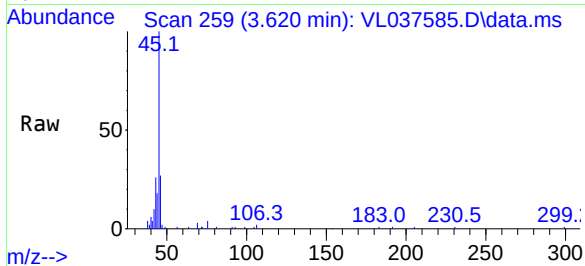
Instrument :
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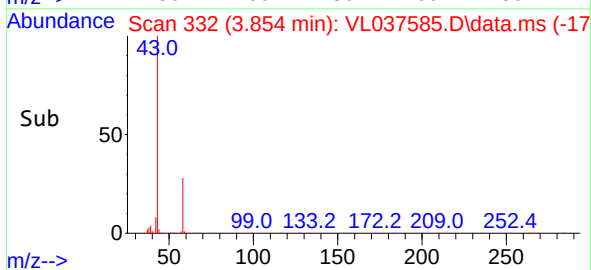
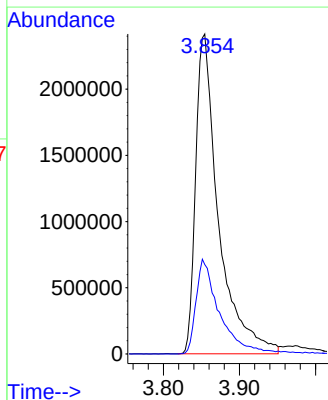
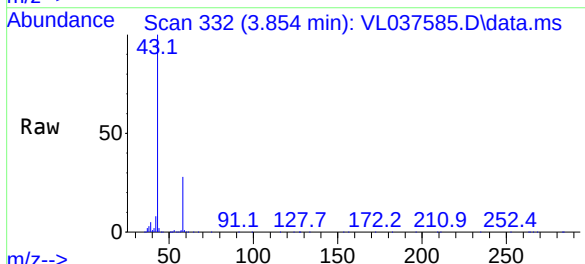
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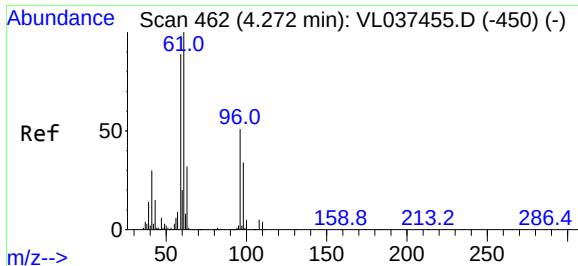
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#15
Acetone
Concen: 30.105 ppbv
RT: 3.854 min Scan# 332
Delta R.T. 0.019 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 43 Resp: 5028381
Ion Ratio Lower Upper
43 100
58 31.3 24.8 37.2





#17
tert-Butyl alcohol
Concen: 1.165 ppbv
RT: 4.305 min Scan# 472
Delta R.T. 0.032 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 59 Resp: 177816
Ion Ratio Lower Upper
59 100
57 11.8 8.3 12.5

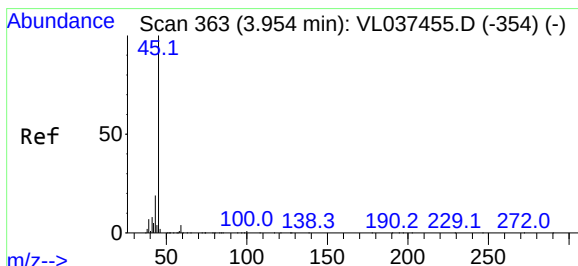
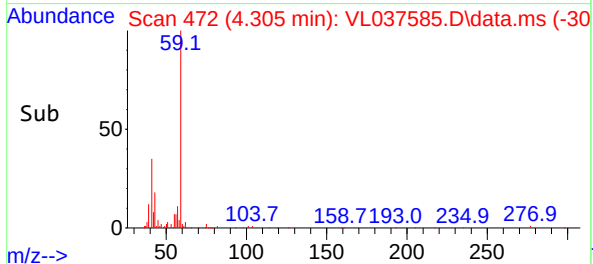
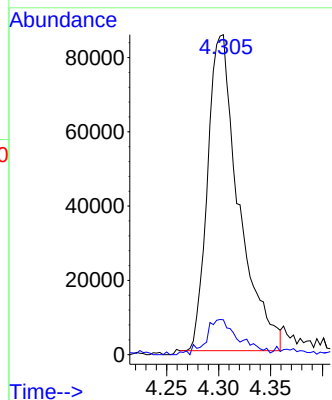
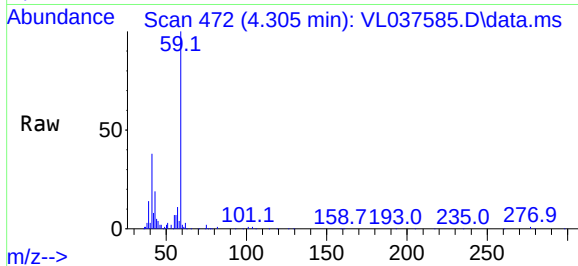
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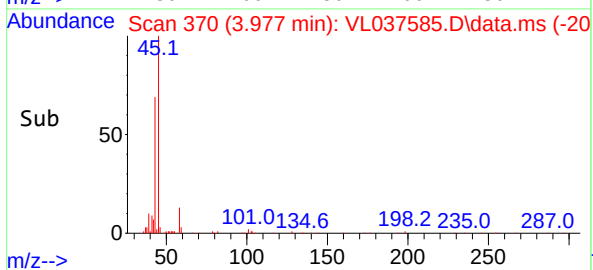
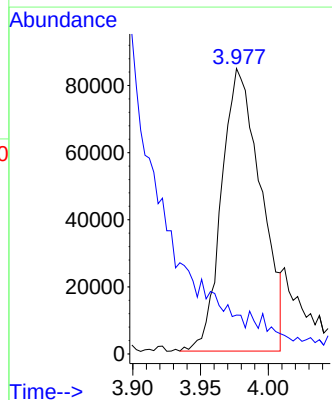
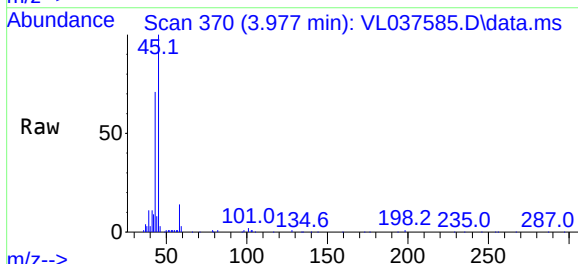
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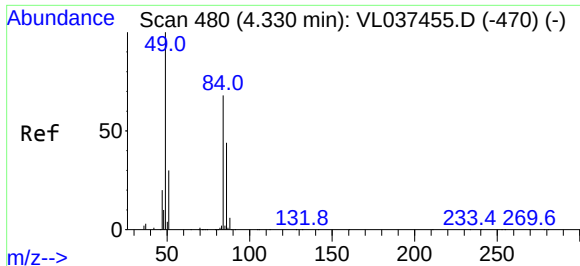
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#19
Isopropyl Alcohol
Concen: 1.778 ppbv
RT: 3.977 min Scan# 370
Delta R.T. 0.022 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 45 Resp: 170101
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





#20
Methylene Chloride
Concen: 5.723 ppbv
RT: 4.353 min Scan# 487
Delta R.T. 0.022 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 84 Resp: 478620

Ion	Ratio	Lower	Upper
84	100		
49	161.0	118.2	177.2
51	46.9	36.6	55.0
86	65.9	51.8	77.6

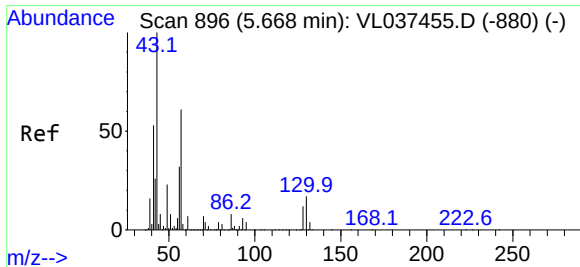
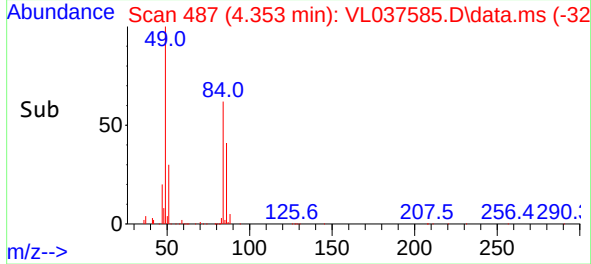
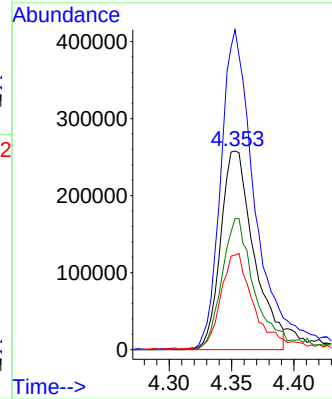
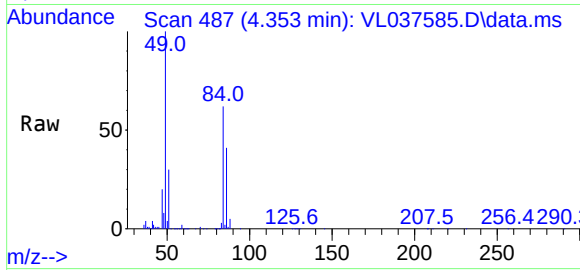
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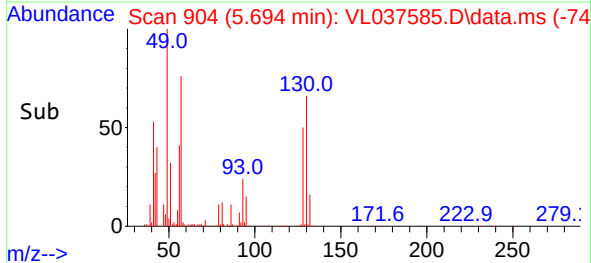
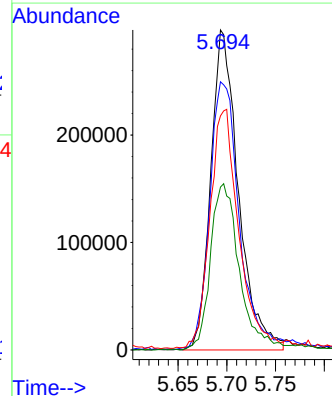
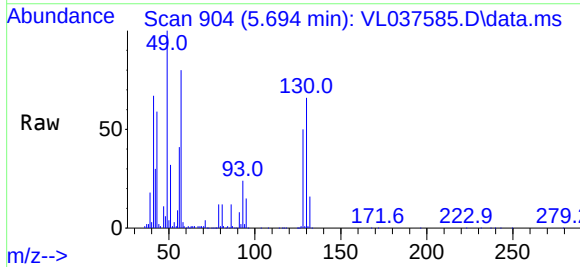
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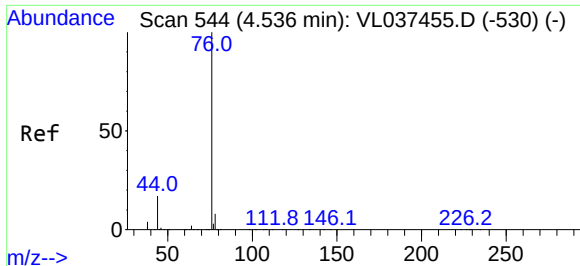


#26
Hexane
Concen: 2.840 ppbv
RT: 5.694 min Scan# 904
Delta R.T. 0.026 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 57 Resp: 588786

Ion	Ratio	Lower	Upper
57	100		
41	92.6	72.3	108.5
43	79.7	172.3	258.5#
56	56.1	42.8	64.2





#27
Carbon Disulfide
Concen: 0.313 ppbv
RT: 4.562 min Scan# 552
Delta R.T. 0.026 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 76 Resp: 57885
Ion Ratio Lower Upper
76 100
44 19.1 13.9 20.9
78 11.9 7.9 11.9#

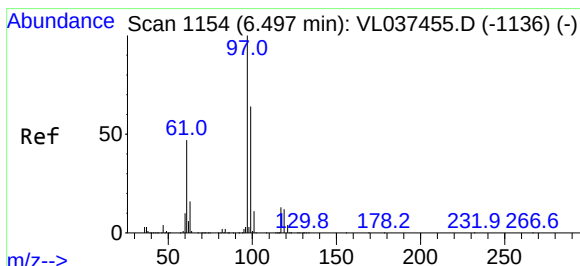
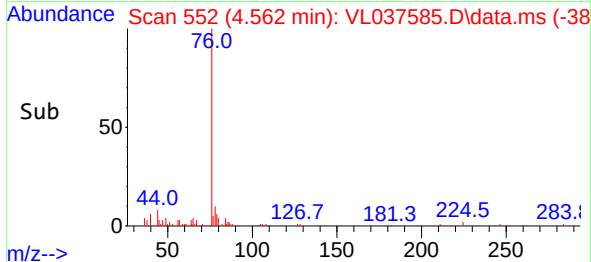
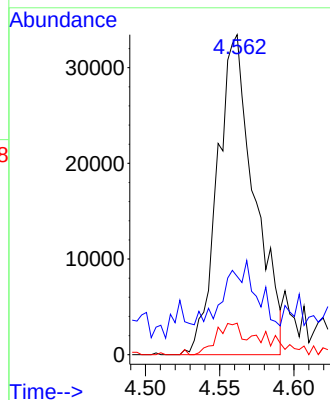
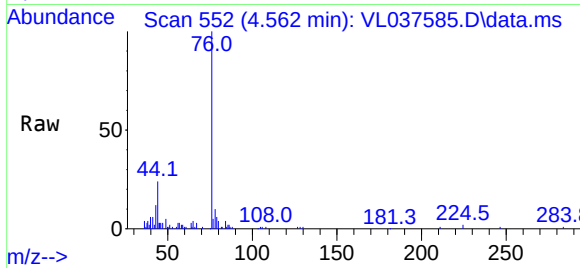
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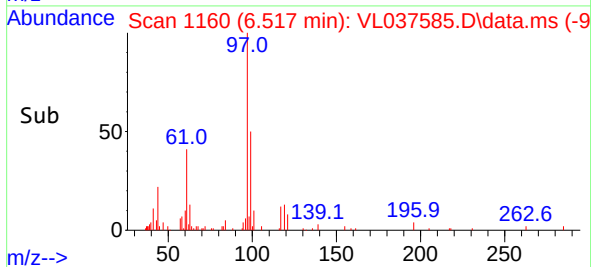
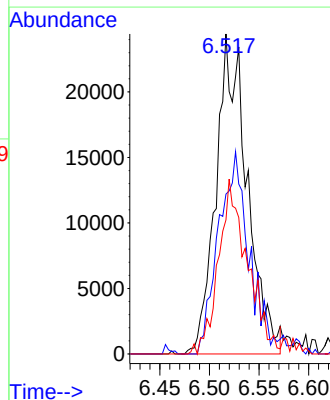
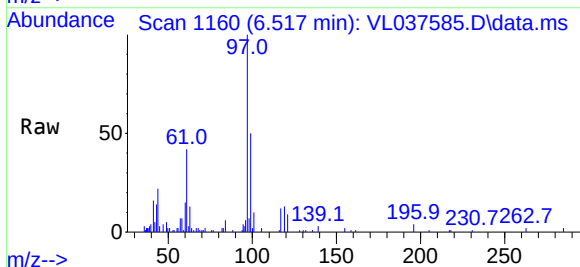
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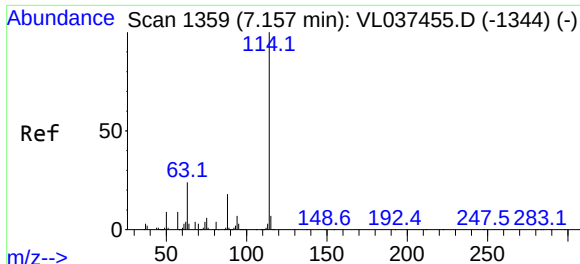
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#32
1,1,1-Trichloroethane
Concen: 0.184 ppbv m
RT: 6.517 min Scan# 1160
Delta R.T. 0.019 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 97 Resp: 53212
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 0.0 39.6 59.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.185 min Scan# 1368
Delta R.T. 0.029 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 114 Resp: 4785550

Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.3	28.9
88	18.0	14.2	21.4

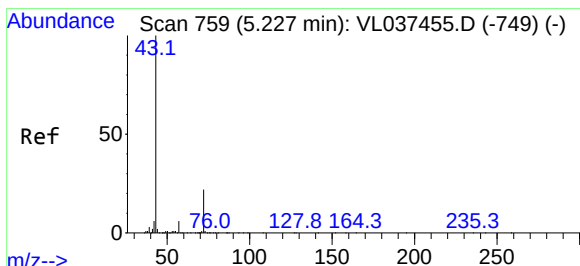
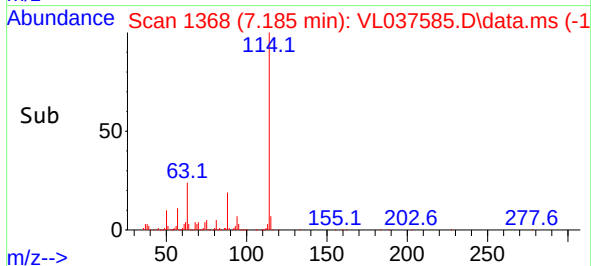
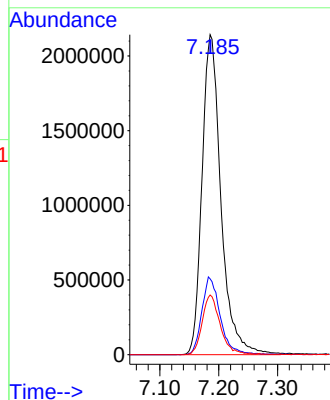
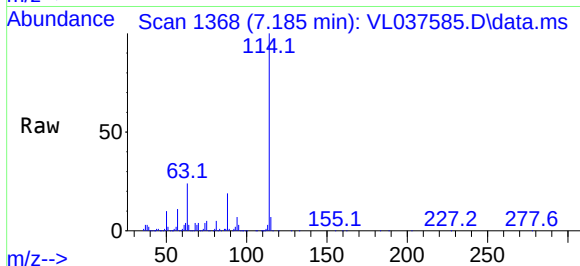
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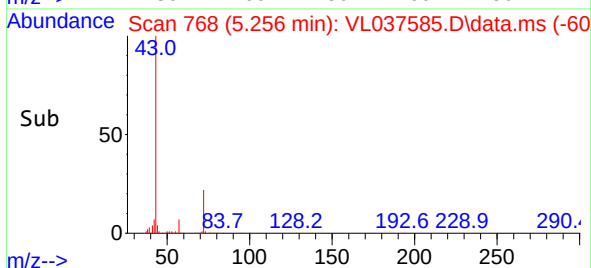
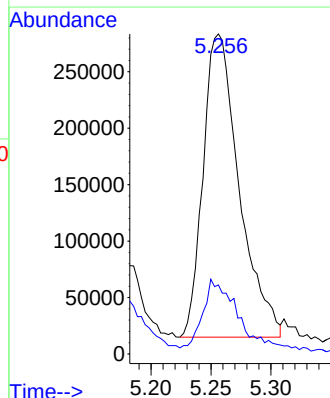
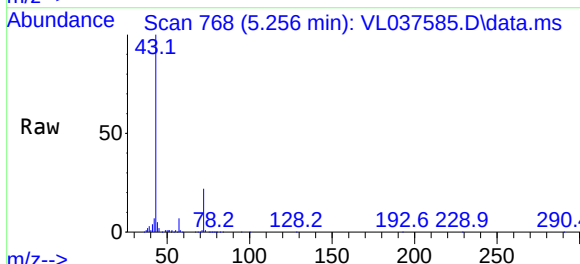
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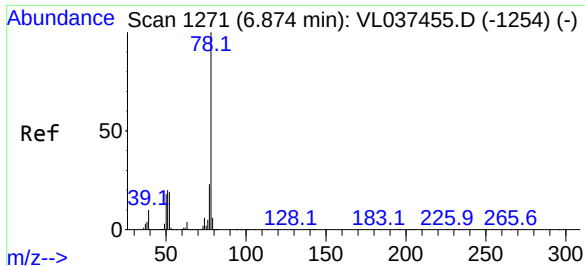


#34
2-Butanone
Concen: 2.878 ppbv
RT: 5.256 min Scan# 768
Delta R.T. 0.029 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 43 Resp: 562343

Ion	Ratio	Lower	Upper
43	100		
72	27.3	17.4	26.0#





#36
Benzene
Concen: 0.414 ppbv m
RT: 6.899 min Scan# 1279
Delta R.T. 0.026 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion:	78	Resp:	166556
Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.2	27.4
50	17.2	14.6	21.8

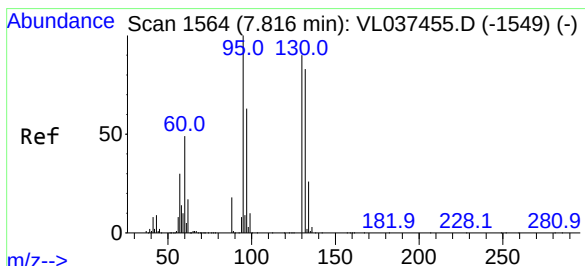
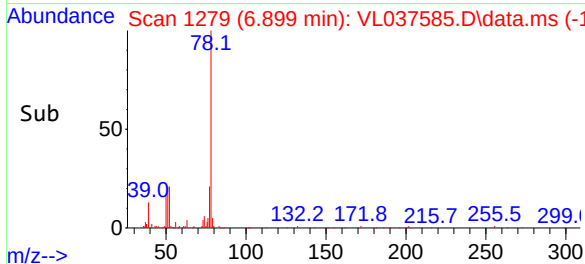
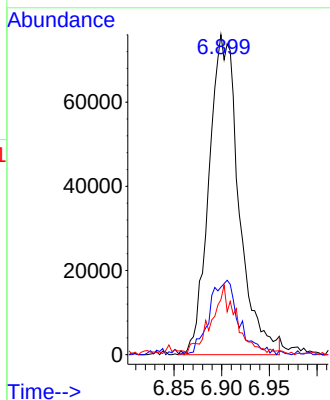
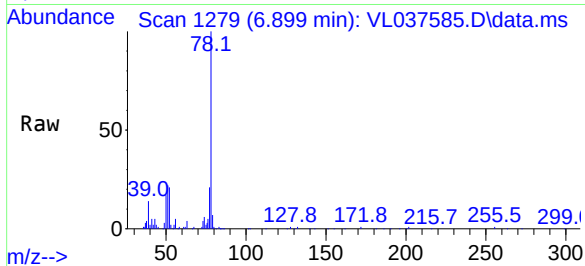
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ClientSampleId :
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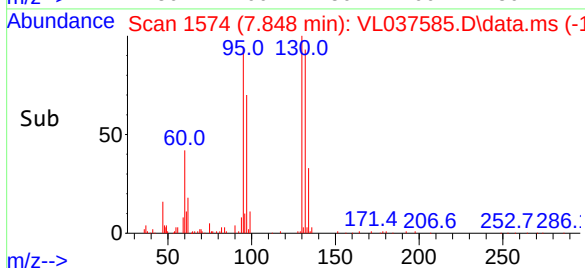
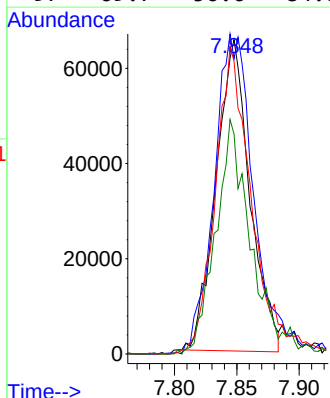
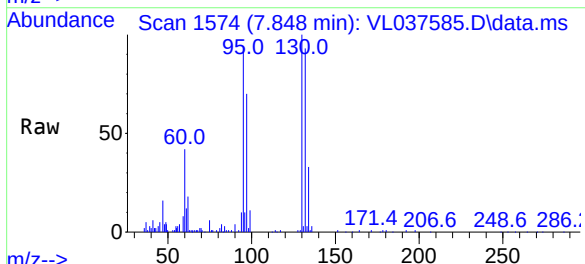
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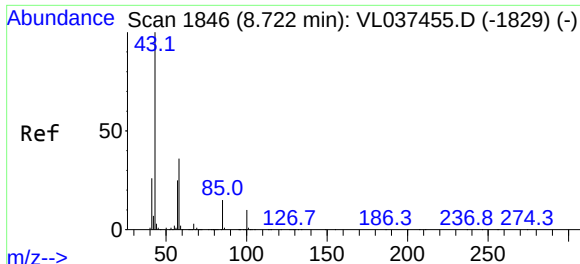
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#38
Trichloroethene
Concen: 0.750 ppbv
RT: 7.848 min Scan# 1574
Delta R.T. 0.032 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion:	130	Resp:	123725
Ion	Ratio	Lower	Upper
130	100		
95	94.8	89.2	133.8
132	93.9	74.0	111.0
97	69.7	56.6	84.8





#50
4-Methyl-2-Pentanone
Concen: 0.262 ppbv
RT: 8.764 min Scan# 1859
Delta R.T. 0.042 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 43 Resp: 66803
Ion Ratio Lower Upper
43 100
58 36.5 29.9 44.9

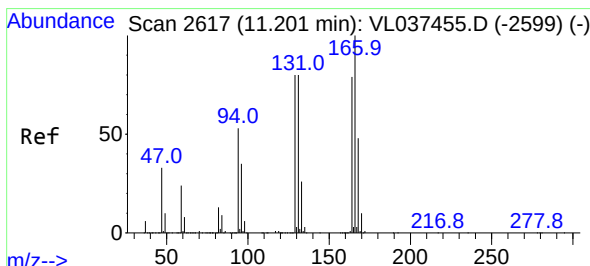
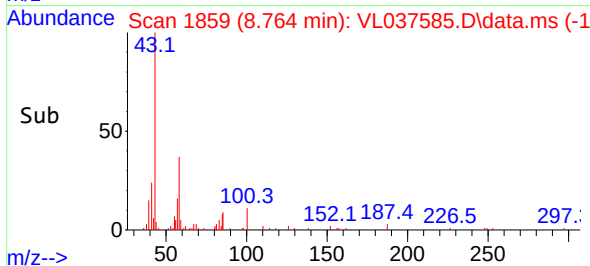
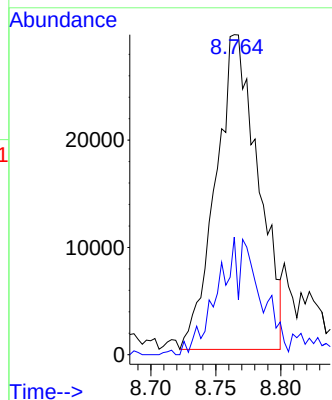
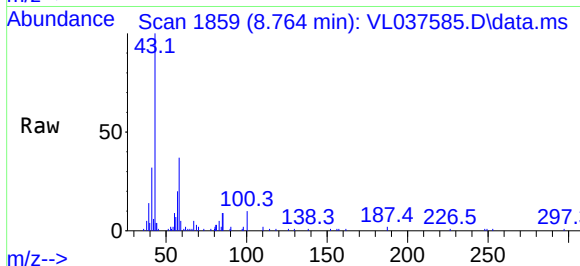
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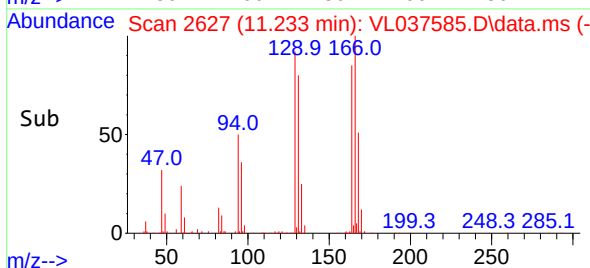
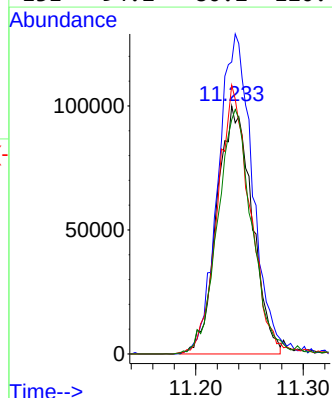
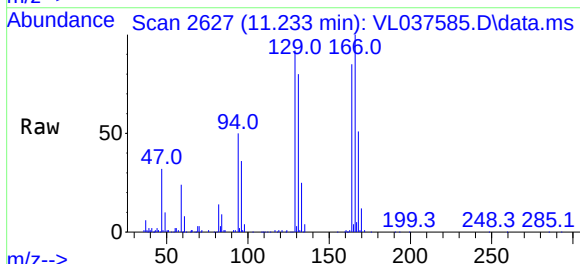
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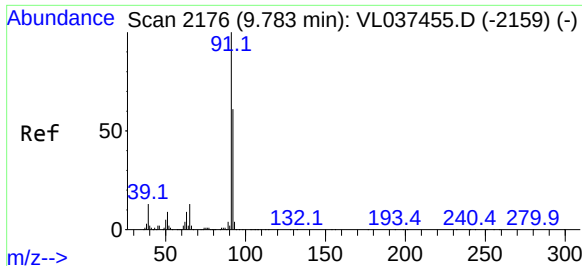
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#52
Tetrachloroethene
Concen: 1.379 ppbv
RT: 11.233 min Scan# 2627
Delta R.T. 0.032 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 164 Resp: 227313
Ion Ratio Lower Upper
164 100
166 117.5 100.7 151.1
129 107.8 80.9 121.3
131 94.2 80.2 120.4





#53
Toluene
Concen: 20.158 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 91 Resp: 9259479
Ion Ratio Lower Upper
91 100
92 61.8 48.8 73.2

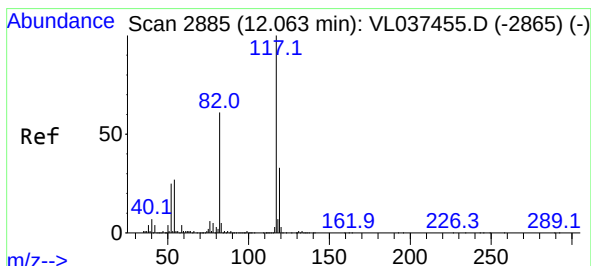
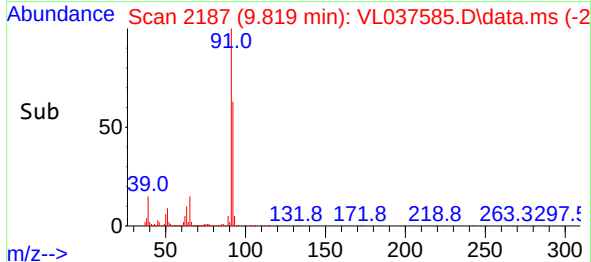
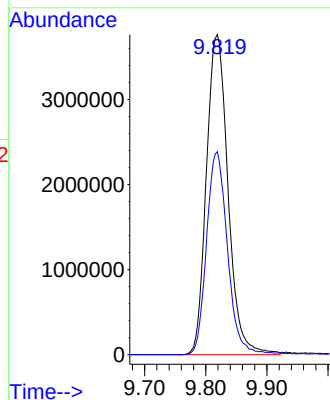
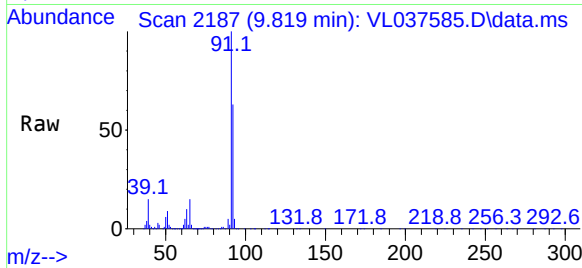
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ClientSampled :
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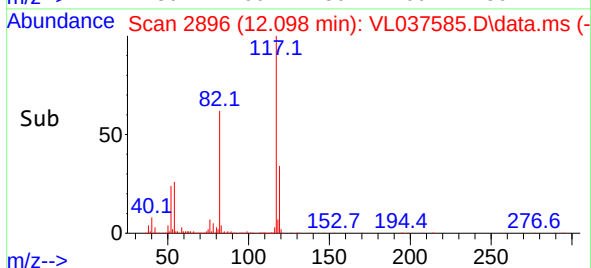
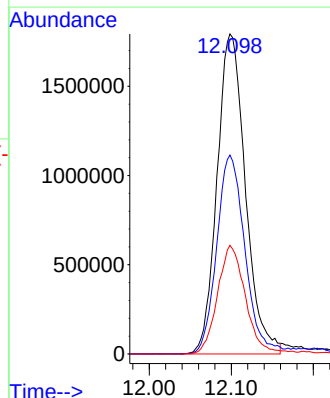
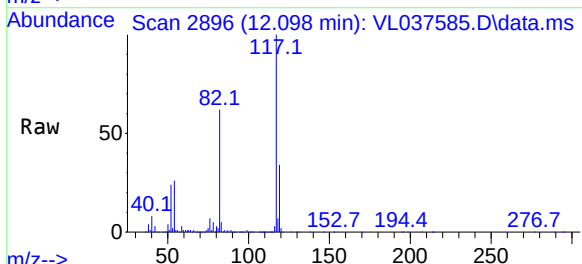
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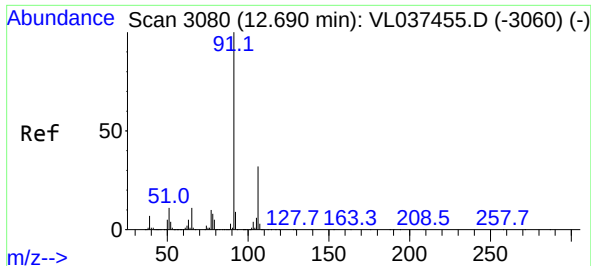
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.098 min Scan# 2896
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 117 Resp: 4307720
Ion Ratio Lower Upper
117 100
82 62.5 52.9 79.3
119 34.0 24.8 37.2





#58
Ethyl Benzene
Concen: 33.596 ppbv
RT: 12.729 min Scan# 3092
Delta R.T. 0.039 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 91 Resp:20083796
Ion Ratio Lower Upper
91 100
106 42.6 25.7 38.5#

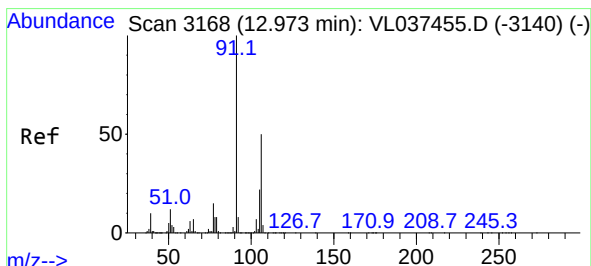
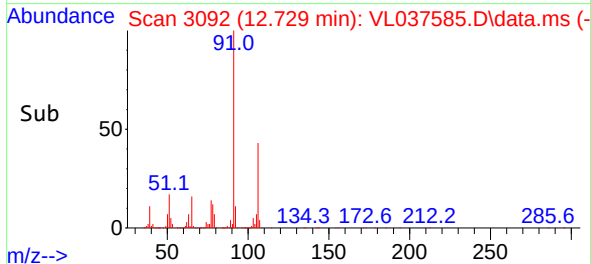
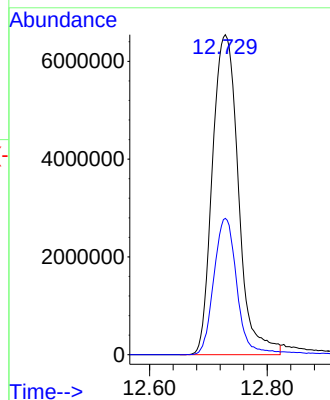
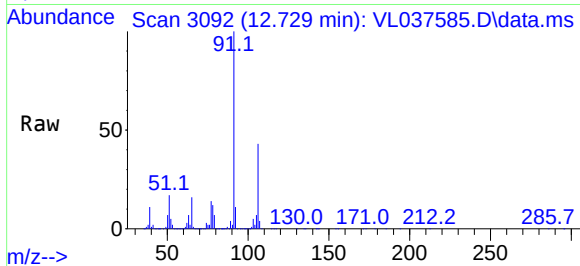
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ClientSampleId :
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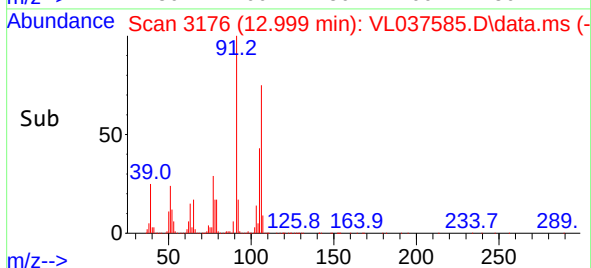
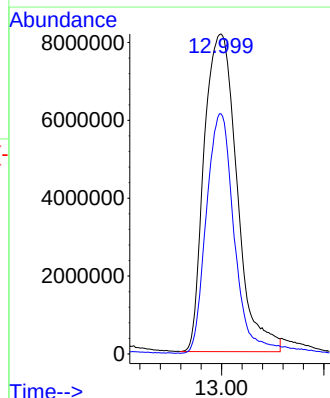
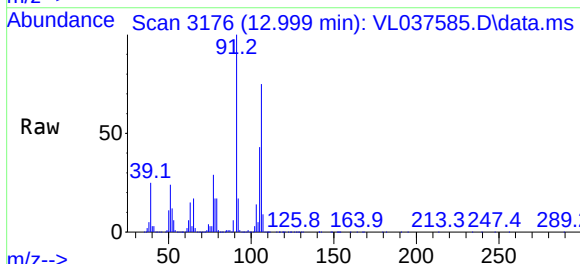
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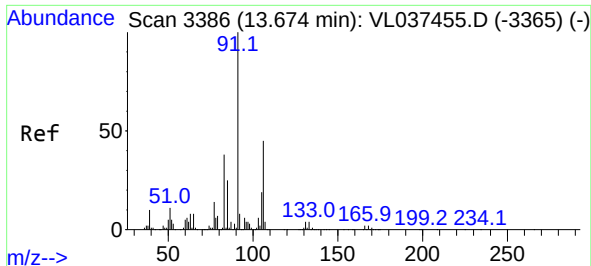
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#59
m/p-Xylene
Concen: 70.313 ppbv
RT: 12.999 min Scan# 3176
Delta R.T. 0.026 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 91 Resp:36439026
Ion Ratio Lower Upper
91 100
106 66.1 36.9 55.3#





#60
o-Xylene
Concen: 35.755 ppbv
RT: 13.709 min Scan# 3397
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 91 Resp: 17294530
Ion Ratio Lower Upper
91 100
106 51.5 23.7 71.1

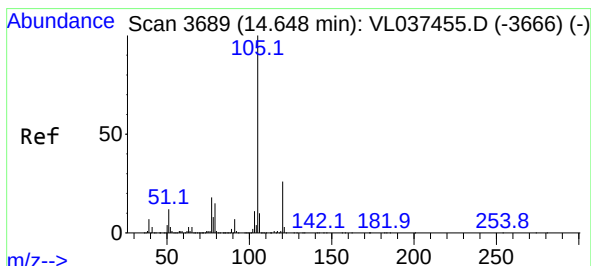
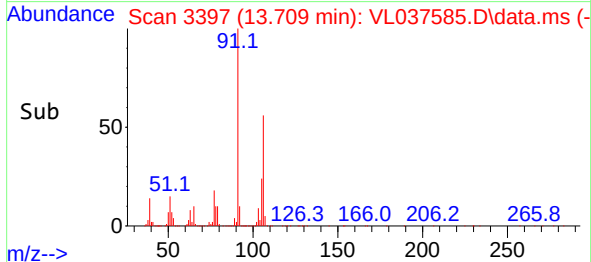
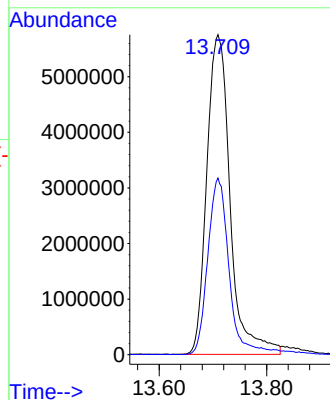
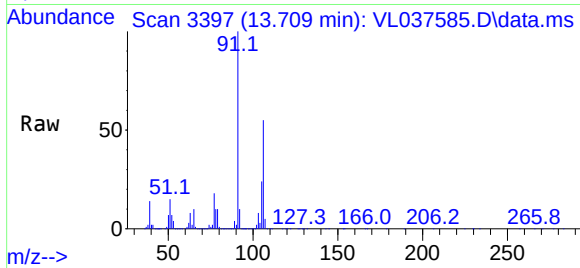
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ClientSampled :
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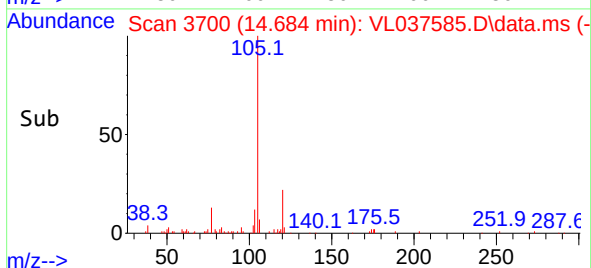
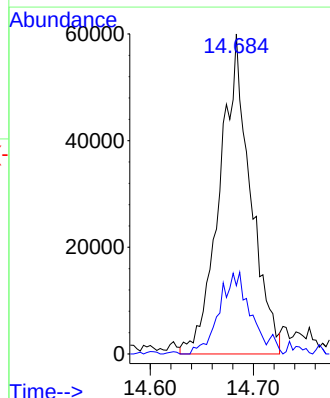
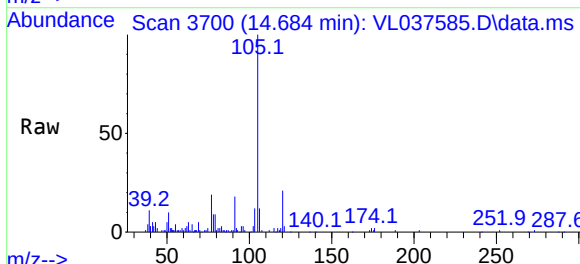
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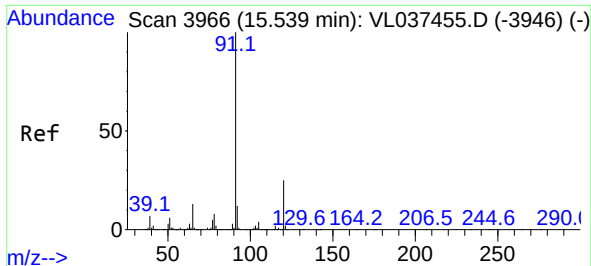
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#62
Isopropylbenzene
Concen: 0.182 ppbv m
RT: 14.684 min Scan# 3700
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 105 Resp: 124497
Ion Ratio Lower Upper
105 100
120 27.0 21.5 32.3





#64
n-propylbenzene
Concen: 0.362 ppbv m
RT: 15.571 min Scan# 3976
Delta R.T. 0.032 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 120 Resp: 62829
Ion Ratio Lower Upper
120 100
91 467.4 373.8 560.6

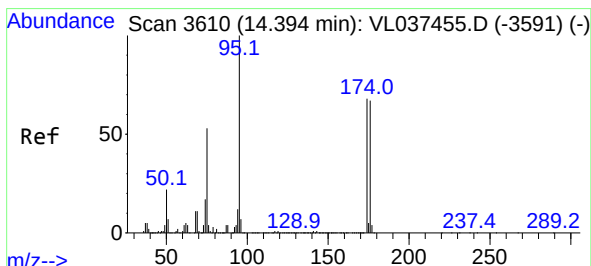
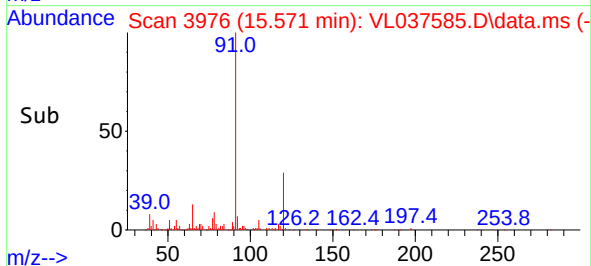
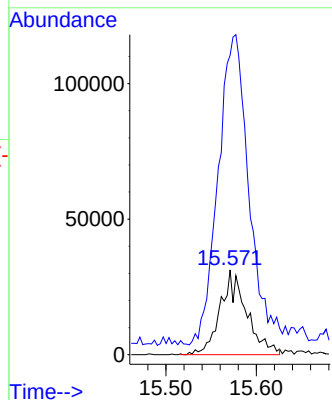
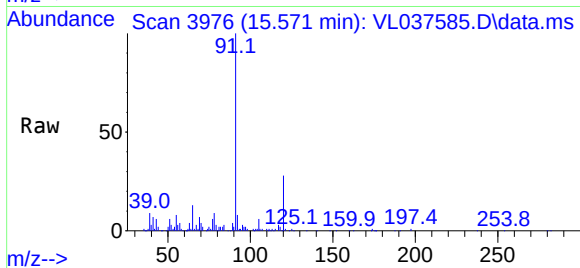
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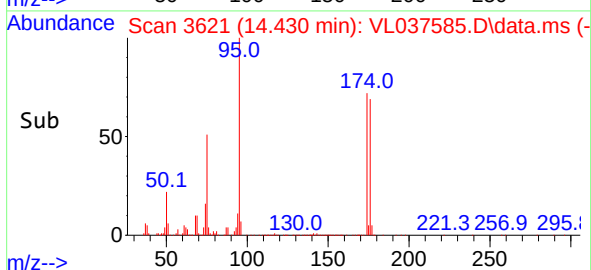
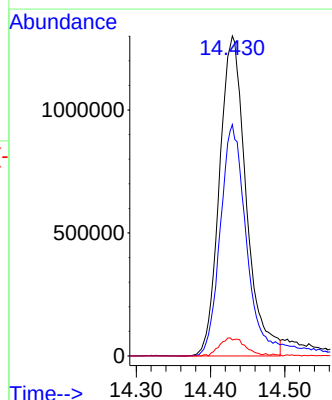
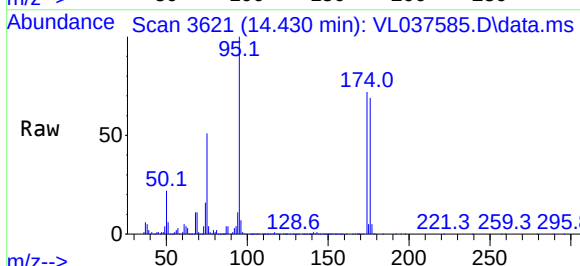
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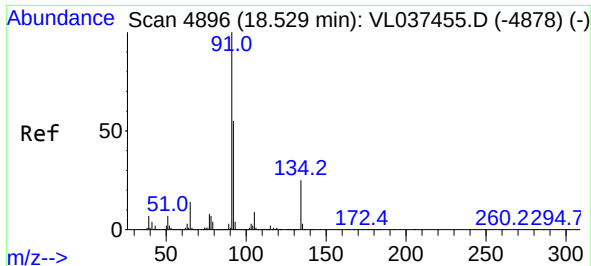
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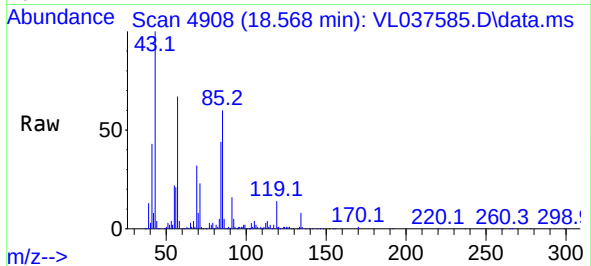
#68
1-Bromo-4-Fluorobenzene
Concen: 10.600 ppbv
RT: 14.430 min Scan# 3621
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion: 95 Resp: 3244001
Ion Ratio Lower Upper
95 100
174 75.3 59.6 89.4
175 5.8 4.6 7.0

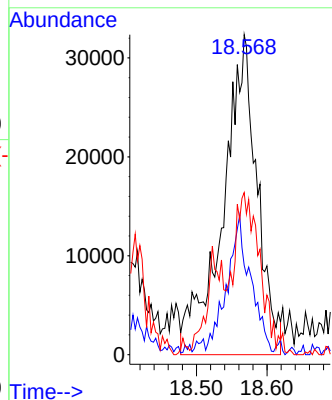




#70
n-Butylbenzene
Concen: 0.161 ppbv m
RT: 18.568 min Scan# 4908
Delta R.T. 0.039 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57



Tgt Ion: 91 Resp: 108752
Ion Ratio Lower Upper
91 100
92 0.0 44.0 66.0#
134 55.2 19.5 29.3#



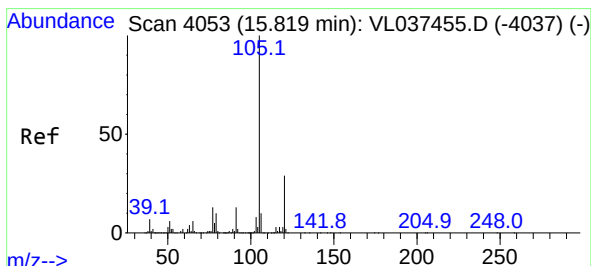
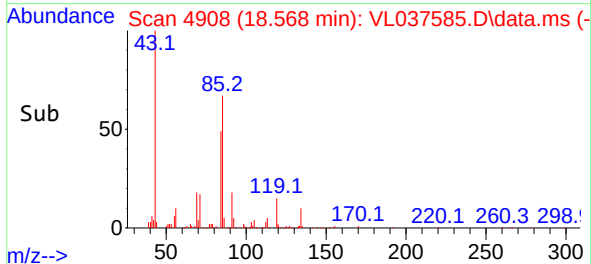
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ClientSampled :
SV-1

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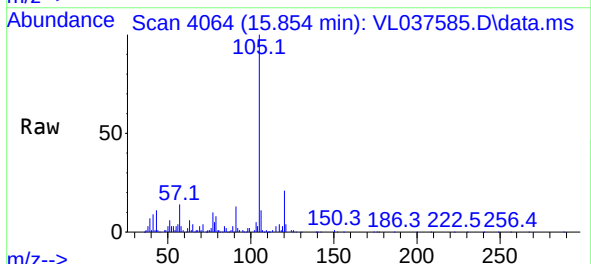
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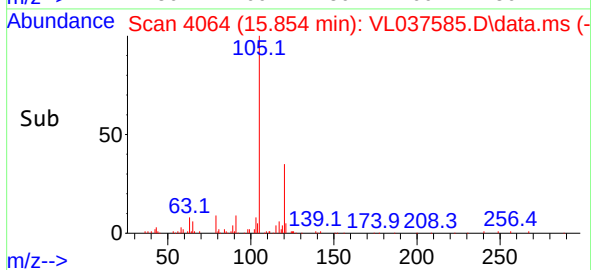
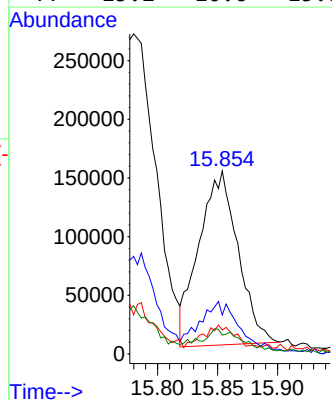
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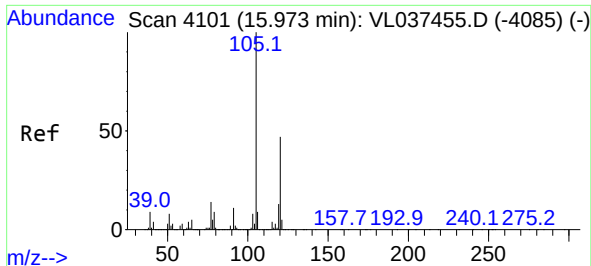


#72
4-Ethyltoluene
Concen: 0.584 ppbv
RT: 15.854 min Scan# 4064
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57



Tgt Ion: 105 Resp: 336261
Ion Ratio Lower Upper
105 100
120 30.6 24.7 37.1
91 12.3 9.8 14.8
77 15.2 10.6 15.8





#73
1,3,5-Trimethylbenzene
Concen: 0.475 ppbv
RT: 16.005 min Scan# 4111
Delta R.T. 0.032 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion:105 Resp: 254195
Ion Ratio Lower Upper
105 100
120 45.2 37.6 56.4

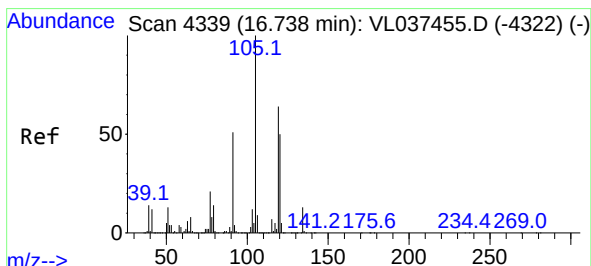
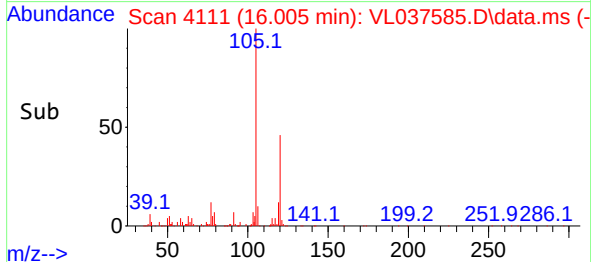
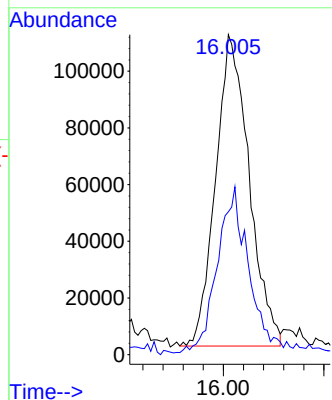
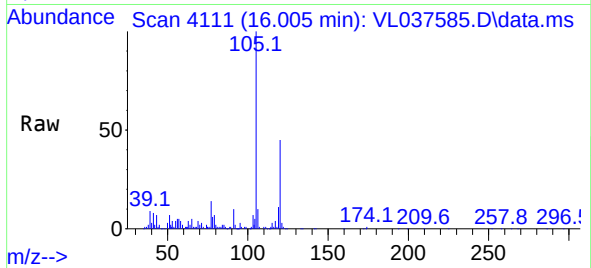
Instrument :
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ClientSampled :
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#74
1,2,4-Trimethylbenzene
Concen: 1.487 ppbv
RT: 16.773 min Scan# 4350
Delta R.T. 0.035 min
Lab File: VL037585.D
Acq: 8 Sep 2021 23:57

Tgt Ion:105 Resp: 846271
Ion Ratio Lower Upper
105 100
120 44.1 40.4 60.6
91 12.0 44.6 67.0#
77 14.5 17.8 26.6#

