

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037574.D
 Acq On : 8 Sep 2021 16:20
 Operator : SY/AP
 Sample : M3662-0DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1DUP

Manual Integrations
 APPROVED

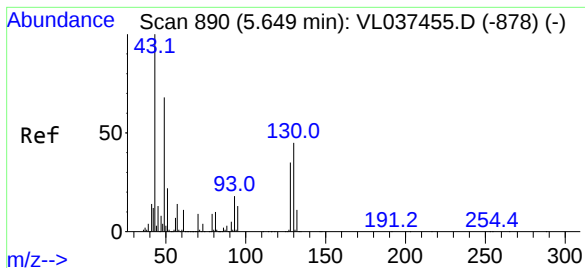
MMDadoda
 9/10/2021 10:52:31 AM

Quant Time: Sep 09 09:12:38 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	5.677	49	1614100	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.185	114	4784961	10.000	ppbv	0.03
55) Chlorobenzene-d5	12.098	117	4231039	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.429	95	3074421	10.228	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.054	85	48079	0.186	ppbv	93
3) Chlorodifluoromethane	2.989	51	144967	0.469	ppbv #	82
4) Chloromethane	3.144	50	56672	0.513	ppbv #	86
9) Propene	3.025	41	135242	1.223	ppbv #	81
10) Heptane	8.134	43	34105m	0.134	ppbv	
11) Trichlorofluoromethane	3.960	101	47833	0.197	ppbv	93
13) Ethanol	3.610	45	1160971m	107.885	ppbv	
15) Acetone	3.854	43	2106477	12.823	ppbv	100
17) tert-Butyl alcohol	4.298	59	36820m	0.245	ppbv	
19) Isopropyl Alcohol	3.973	45	685332m	7.282	ppbv	
20) Methylene Chloride	4.353	84	124213	1.510	ppbv	91
26) Hexane	5.693	57	200111	0.981	ppbv #	67
27) Carbon Disulfide	4.562	76	27929	0.154	ppbv #	1
29) Chloroform	5.761	83	987486	3.417	ppbv	98
34) 2-Butanone	5.256	43	221286	1.133	ppbv	94
35) Carbon Tetrachloride	7.034	117	15839m	0.056	ppbv	
36) Benzene	6.899	78	164593m	0.409	ppbv	
38) Trichloroethene	7.848	130	7339m	0.044	ppbv	
41) Tetrahydrofuran	6.066	42	144787	1.538	ppbv	94
44) 2,2,4-Trimethylpentane	7.883	57	85700m	0.127	ppbv	
52) Tetrachloroethene	11.233	164	50233m	0.305	ppbv	
53) Toluene	9.819	91	360646	0.785	ppbv	95
58) Ethyl Benzene	12.722	91	2530127	4.309	ppbv	99
59) m/p-Xylene	12.982	91	14920006	29.311	ppbv	89
60) o-Xylene	13.706	91	6907929	14.540	ppbv	98
62) Isopropylbenzene	14.677	105	74997m	0.112	ppbv	
70) n-Butylbenzene	18.567	91	105525m	0.159	ppbv	
72) 4-Ethyltoluene	15.850	105	107694m	0.191	ppbv	
73) 1,3,5-Trimethylbenzene	16.008	105	111223	0.211	ppbv	90
74) 1,2,4-Trimethylbenzene	16.773	105	372878	0.667	ppbv #	69
79) Naphthalene	22.210	128	73807m	0.197	ppbv	
80) Naphthalene, 2-methyl-	24.979	142	60980	0.585	ppbv #	65

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



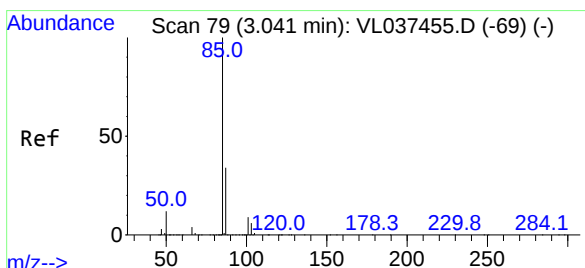
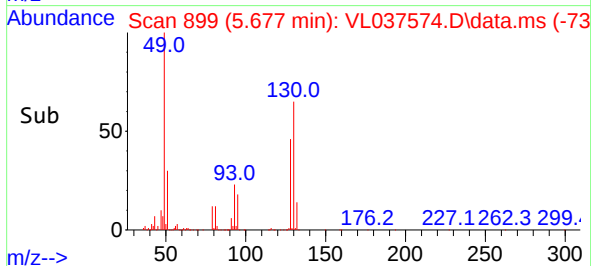
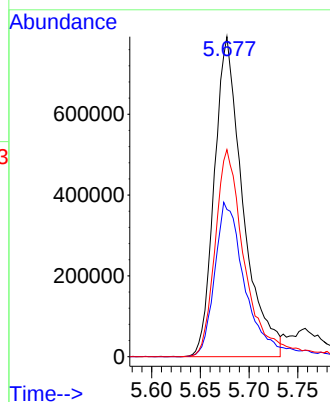
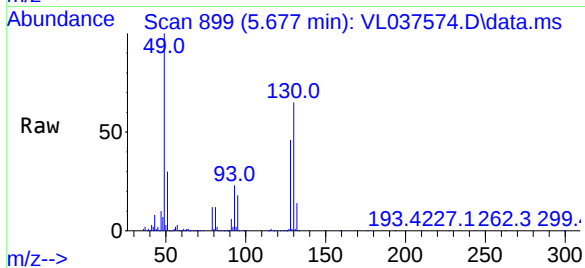
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.677 min Scan# 899
Delta R.T. 0.029 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 49 Resp: 1614100
Ion Ratio Lower Upper
49 100
128 54.3 27.5 82.4
130 69.4 34.0 101.8

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

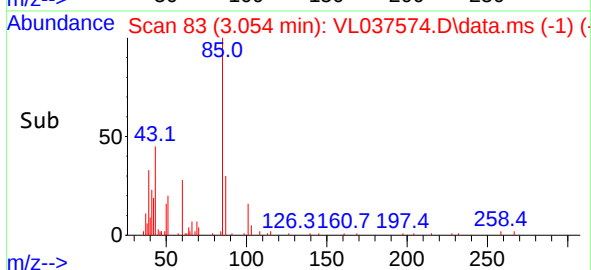
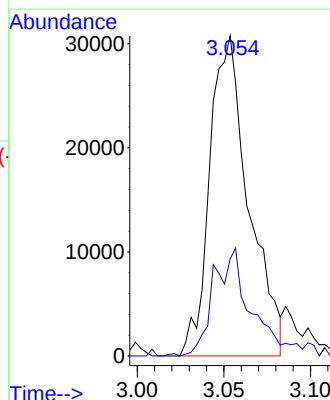
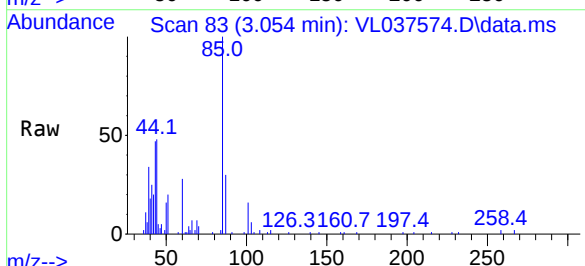
Manual Integrations
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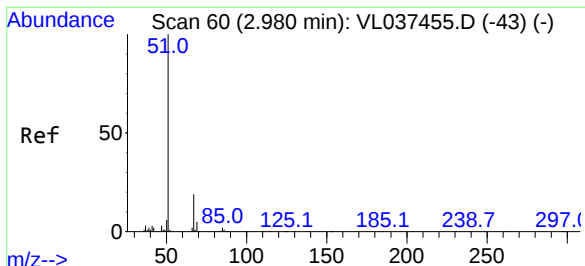
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#2
Dichlorodifluoromethane
Concen: 0.186 ppbv
RT: 3.054 min Scan# 83
Delta R.T. 0.013 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 85 Resp: 48079
Ion Ratio Lower Upper
85 100
87 30.3 27.6 41.4





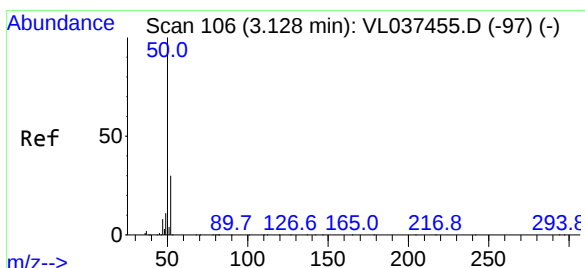
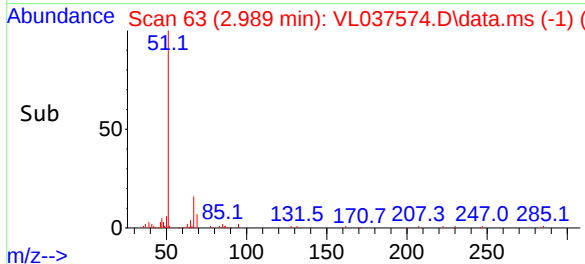
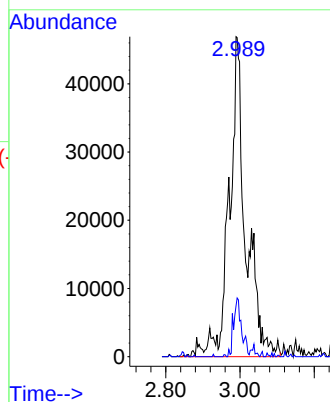
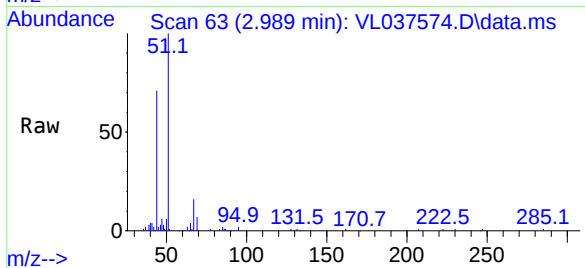
#3
Chlorodifluoromethane
Concen: 0.469 ppbv
RT: 2.989 min Scan# 63
Delta R.T. 0.009 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tgt Ion: 51 Resp: 144967
Ion Ratio Lower Upper
51 100
67 9.8 14.2 21.2#

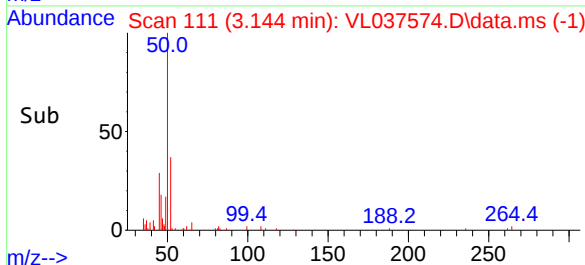
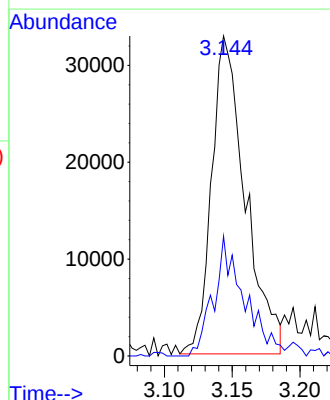
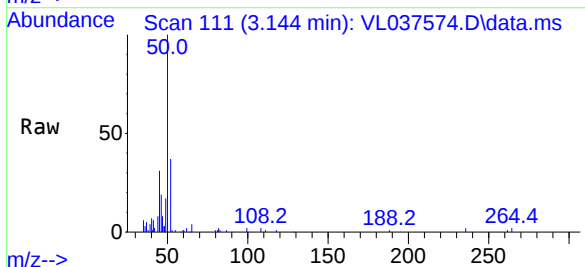
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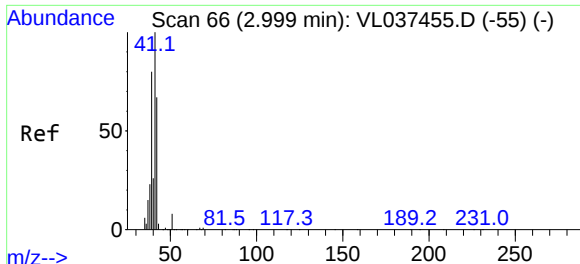
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#4
Chloromethane
Concen: 0.513 ppbv
RT: 3.144 min Scan# 111
Delta R.T. 0.016 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 50 Resp: 56672
Ion Ratio Lower Upper
50 100
52 37.7 24.0 36.0#





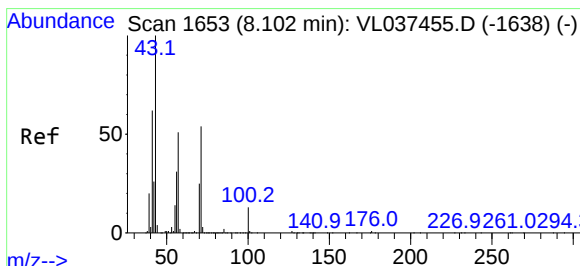
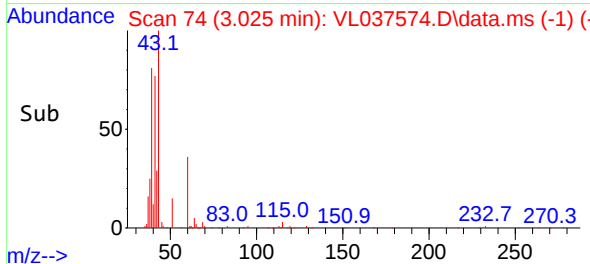
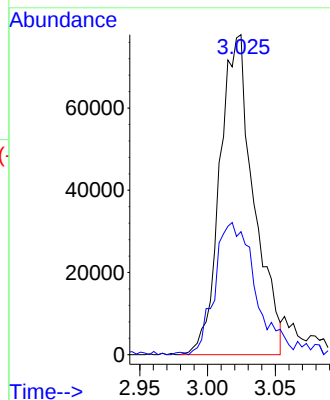
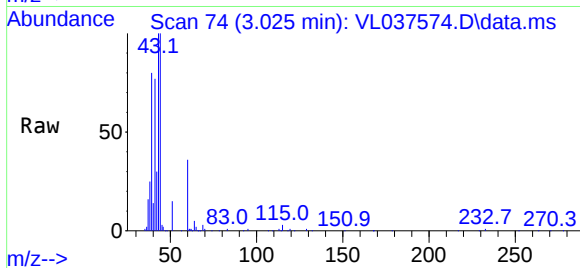
#9
Propene
Concen: 1.223 ppbv
RT: 3.025 min Scan# 74
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 41 Resp: 135242
Ion Ratio Lower Upper
41 100
42 52.0 53.7 80.5#

Instrument :
MSVOA_L
ClientSampleId :
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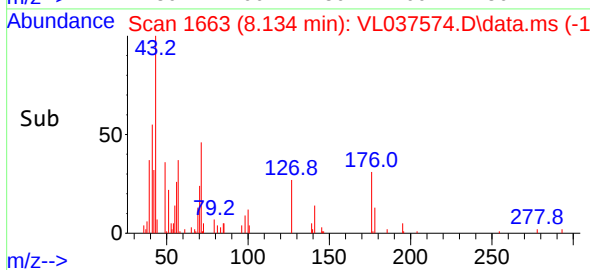
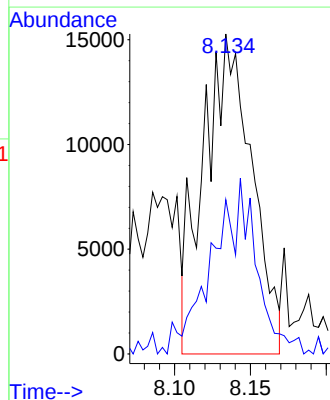
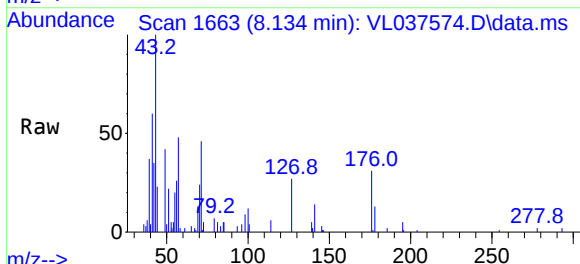
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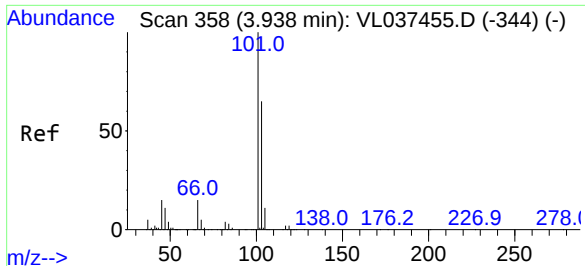
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#10
Heptane
Concen: 0.134 ppbv m
RT: 8.134 min Scan# 1663
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 43 Resp: 34105
Ion Ratio Lower Upper
43 100
57 49.4 41.0 61.6





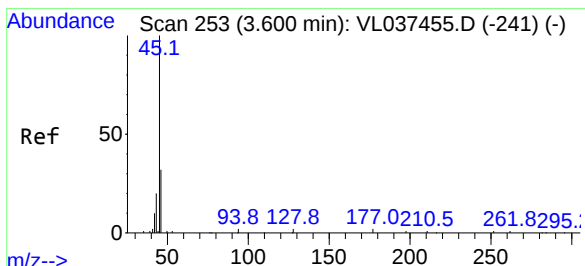
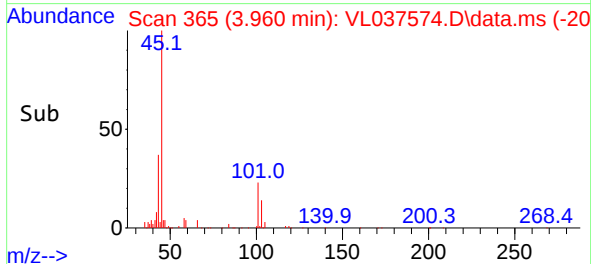
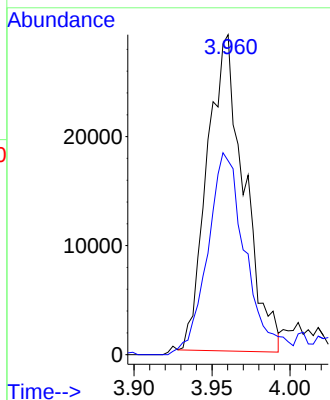
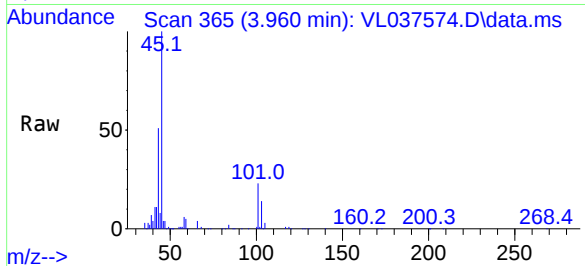
#11
Trichlorofluoromethane
Concen: 0.197 ppbv
RT: 3.960 min Scan# 365
Delta R.T. 0.022 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tgt Ion:101 Resp: 47833
Ion Ratio Lower Upper
101 100
103 59.6 51.8 77.6

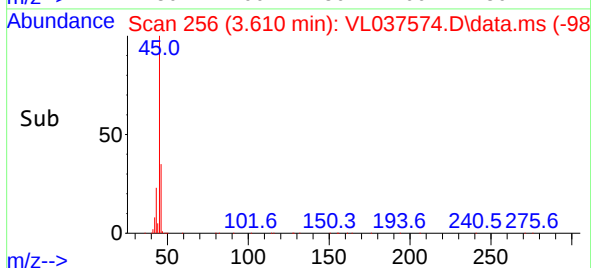
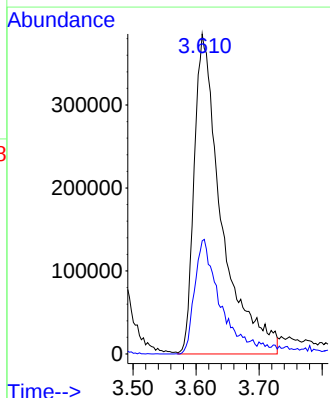
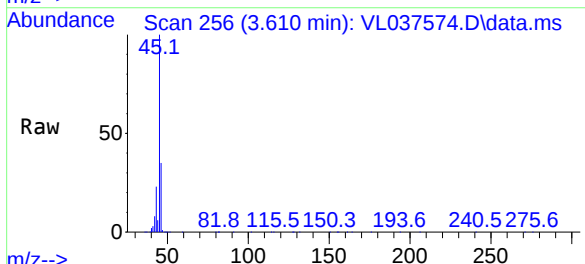
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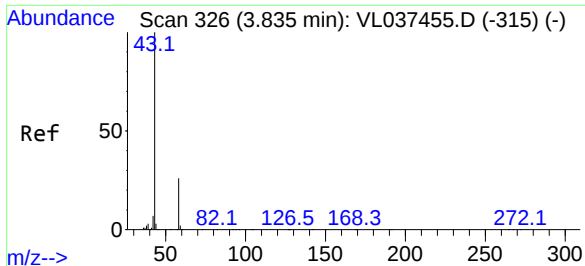
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#13
Ethanol
Concen: 107.885 ppbv m
RT: 3.610 min Scan# 256
Delta R.T. 0.009 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 45 Resp: 1160971
Ion Ratio Lower Upper
45 100
46 36.4 14.1 56.5





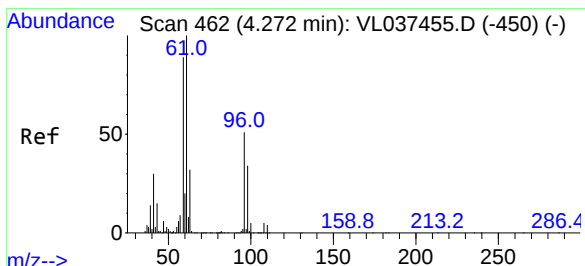
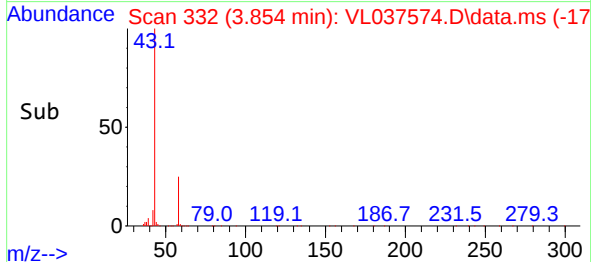
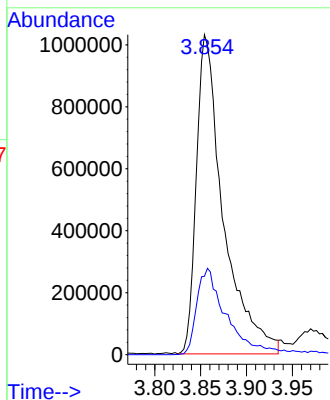
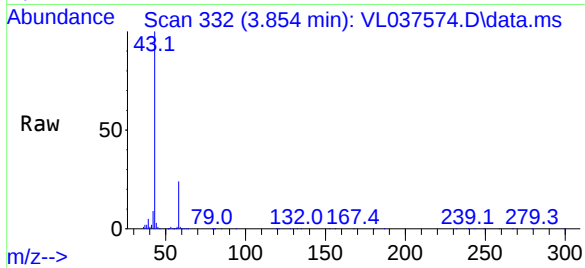
#15
Acetone
Concen: 12.823 ppbv
RT: 3.854 min Scan# 332
Delta R.T. 0.019 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 43 Resp: 2106477
Ion Ratio Lower Upper
43 100
58 31.2 24.8 37.2

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

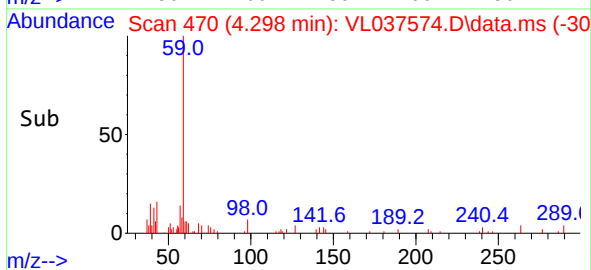
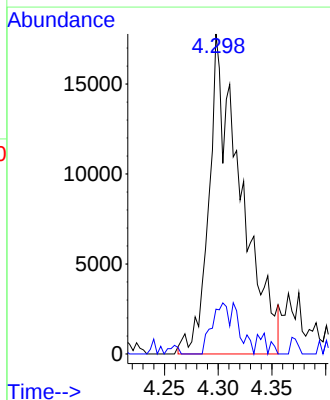
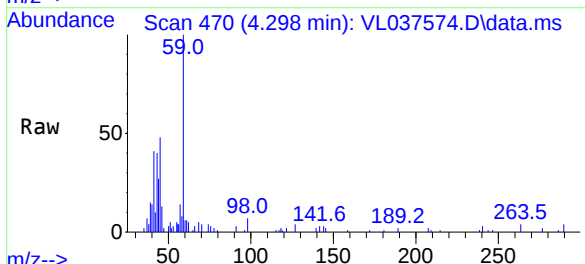
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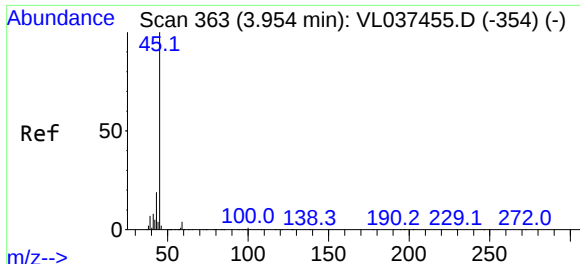
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#17
tert-Butyl alcohol
Concen: 0.245 ppbv m
RT: 4.298 min Scan# 470
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 59 Resp: 36820
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





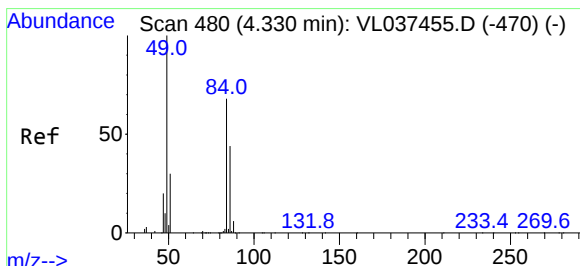
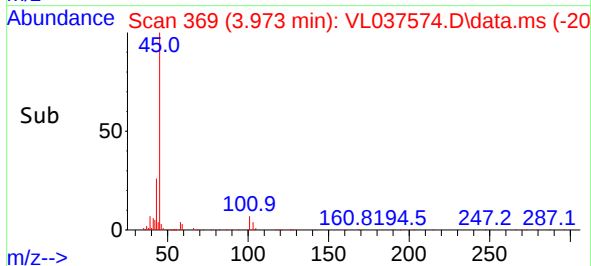
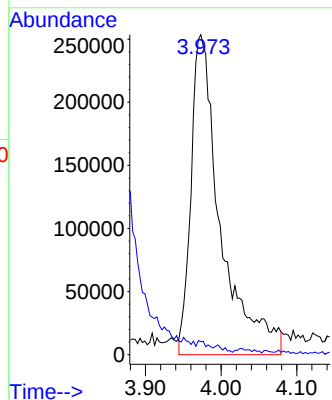
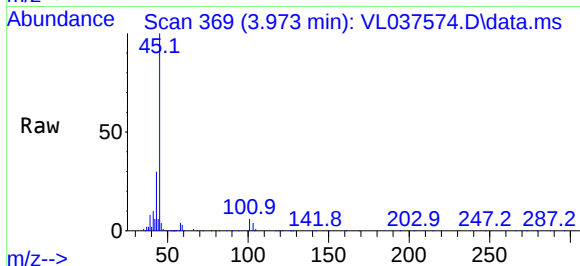
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Isopropyl Alcohol
Concen: 7.282 ppbv m
RT: 3.973 min Scan# 369
Delta R.T. 0.019 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

Tgt Ion: 45 Resp: 685332
Ion Ratio Lower Upper
45 100
58 98.2 1.4 2.2#

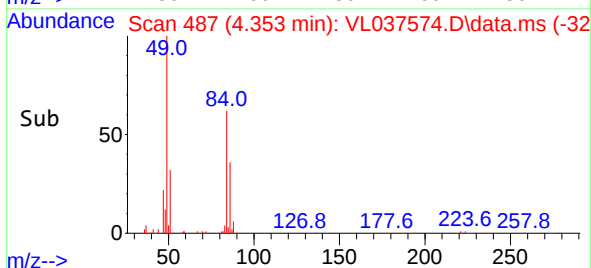
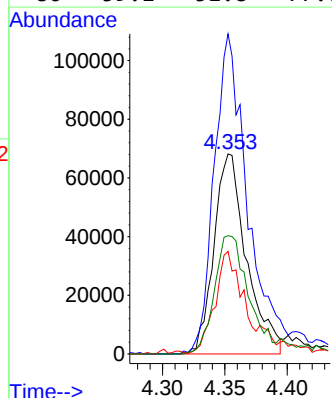
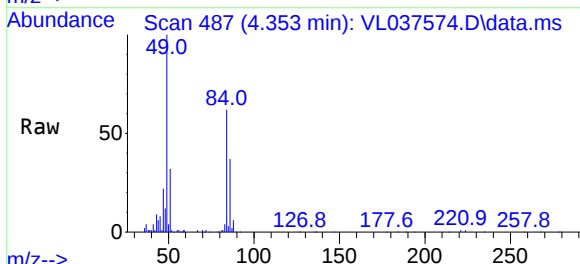
Manual Integrations
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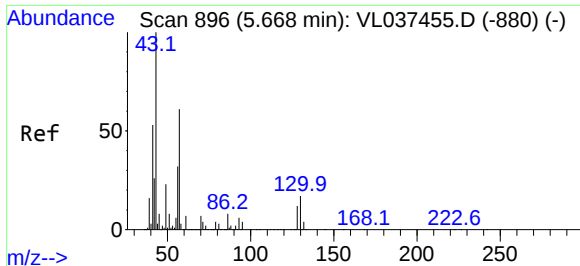
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#20
Methylene Chloride
Concen: 1.510 ppbv
RT: 4.353 min Scan# 487
Delta R.T. 0.022 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 84 Resp: 124213
Ion Ratio Lower Upper
84 100
49 160.0 118.2 177.2
51 49.9 36.6 55.0
86 59.1 51.8 77.6





#26
Hexane
Concen: 0.981 ppbv
RT: 5.693 min Scan# 904
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

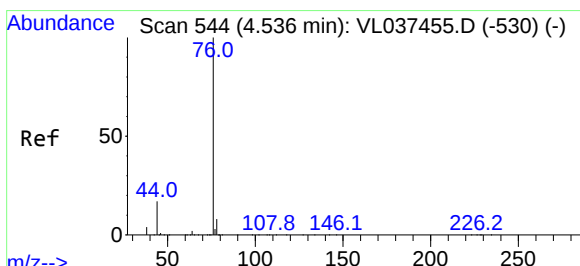
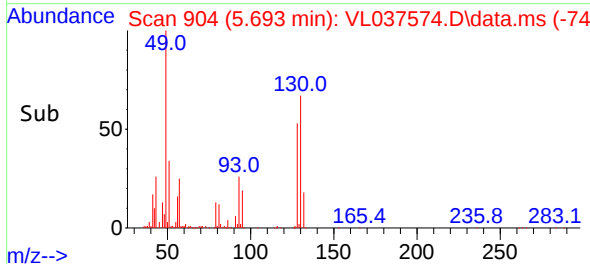
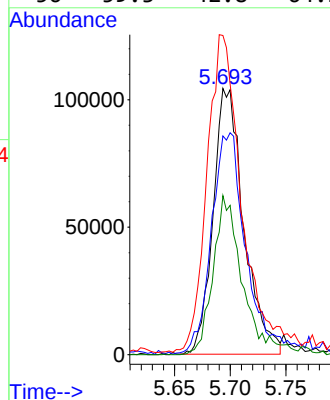
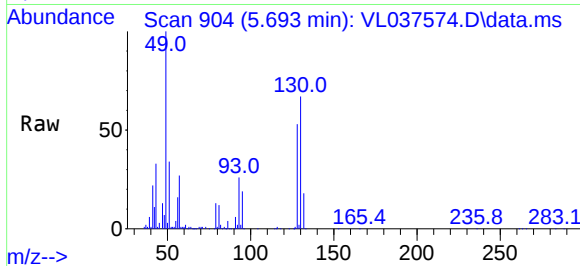
Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

Tgt Ion: 57 Resp: 200111

Ion	Ratio	Lower	Upper
57	100		
41	95.2	72.3	108.5
43	135.7	172.3	258.5#
56	59.3	42.8	64.2

Manual Integrations
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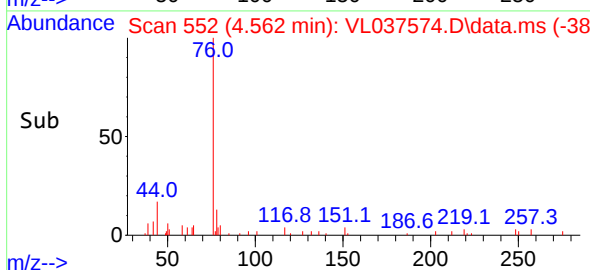
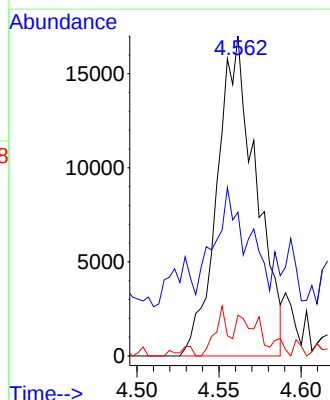
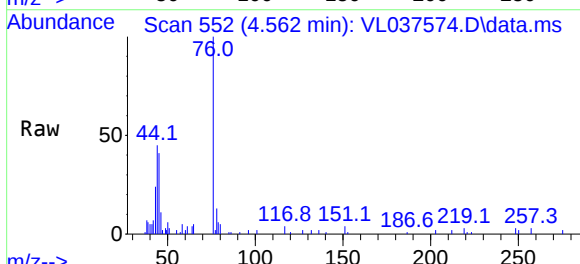
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9/10/2021 10:52:31 AM

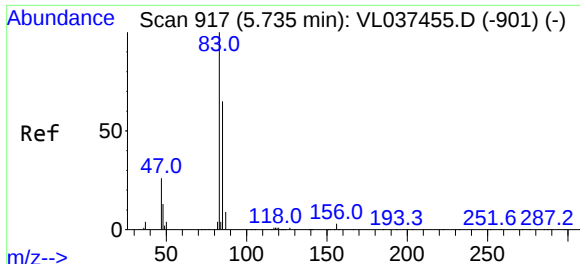


#27
Carbon Disulfide
Concen: 0.154 ppbv
RT: 4.562 min Scan# 552
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 76 Resp: 27929

Ion	Ratio	Lower	Upper
76	100		
44	93.5	13.9	20.9#
78	16.7	7.9	11.9#





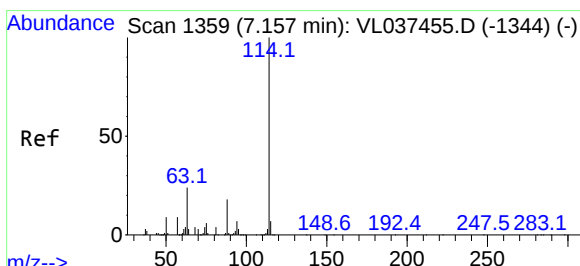
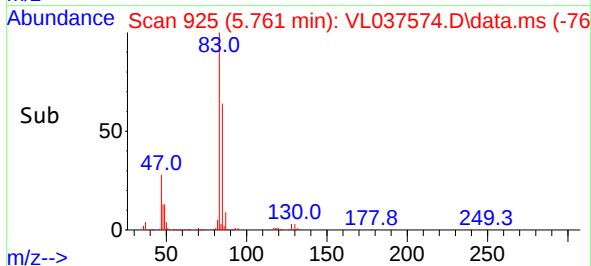
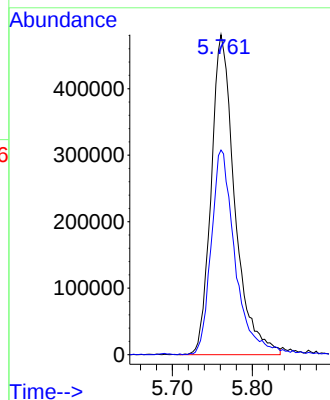
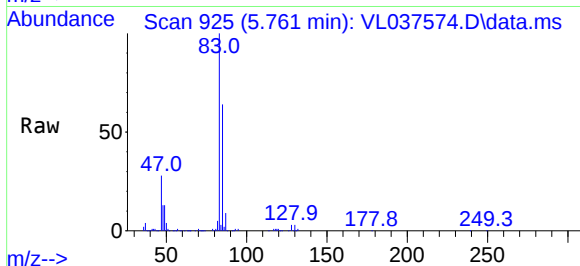
#29
Chloroform
Concen: 3.417 ppbv
RT: 5.761 min Scan# 925
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tgt Ion: 83 Resp: 987486
Ion Ratio Lower Upper
83 100
85 63.7 52.3 78.5

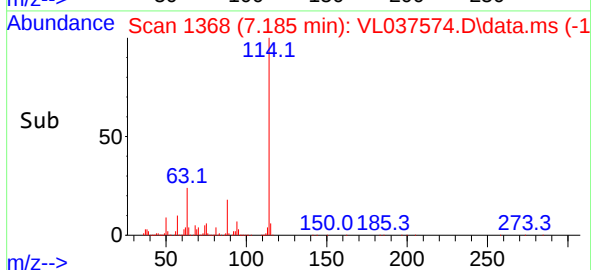
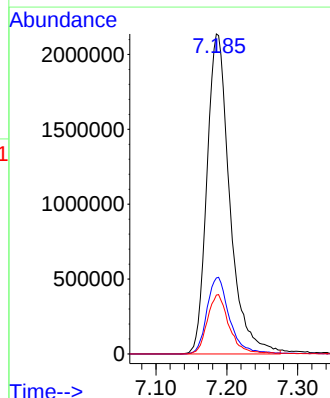
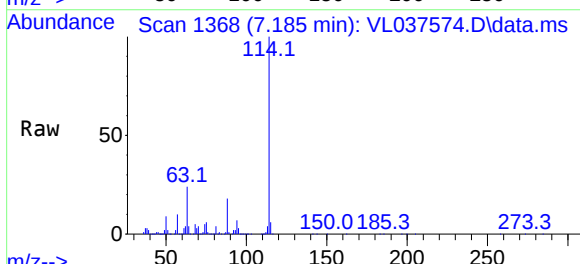
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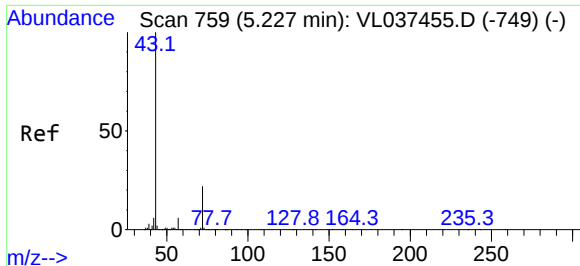
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.185 min Scan# 1368
Delta R.T. 0.029 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 114 Resp: 4784961
Ion Ratio Lower Upper
114 100
63 23.9 19.3 28.9
88 17.9 14.2 21.4





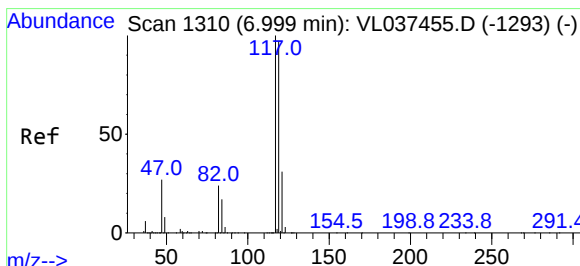
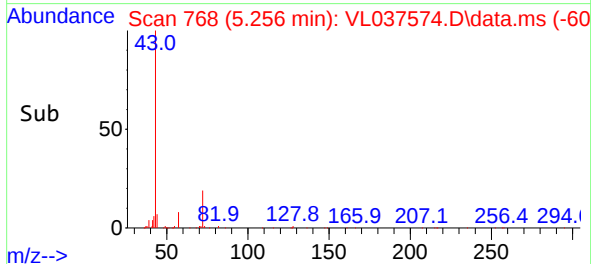
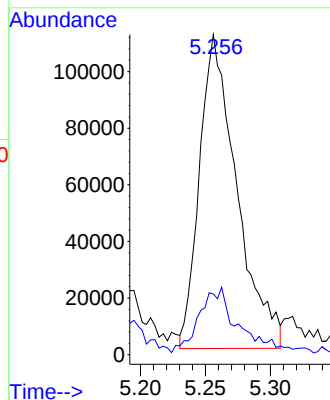
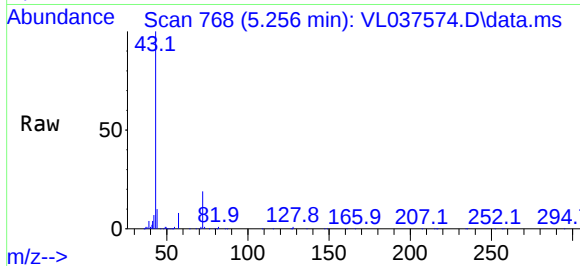
#34
2-Butanone
Concen: 1.133 ppbv
RT: 5.256 min Scan# 768
Delta R.T. 0.029 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 43 Resp: 221286
Ion Ratio Lower Upper
43 100
72 24.7 17.4 26.0

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

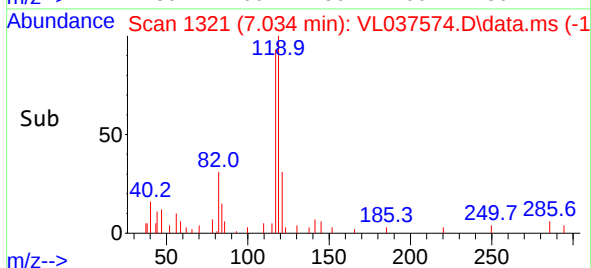
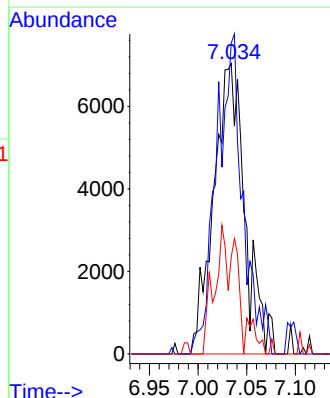
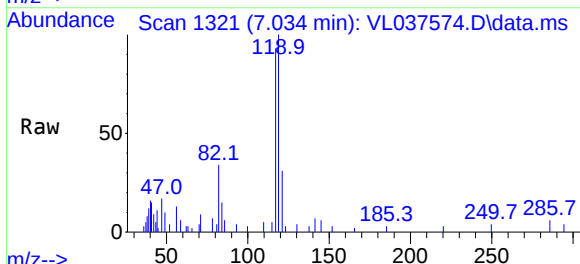
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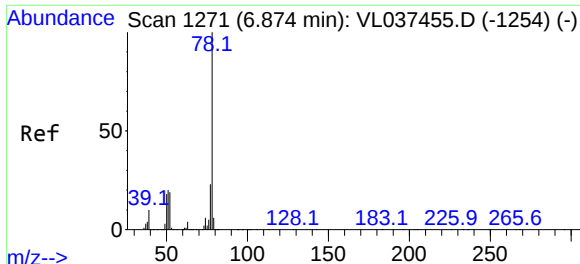
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.034 min Scan# 1321
Delta R.T. 0.035 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

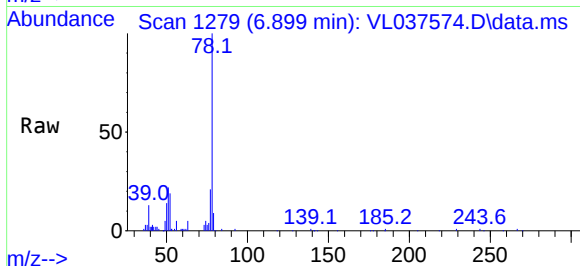
Tgt Ion: 117 Resp: 15839
Ion Ratio Lower Upper
117 100
119 107.1 77.3 115.9
121 33.4 25.2 37.8





#36
Benzene
Concen: 0.409 ppbv m
RT: 6.899 min Scan# 1279
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

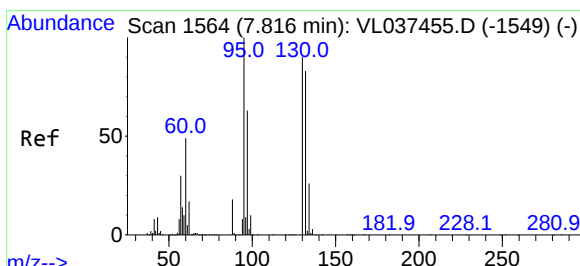
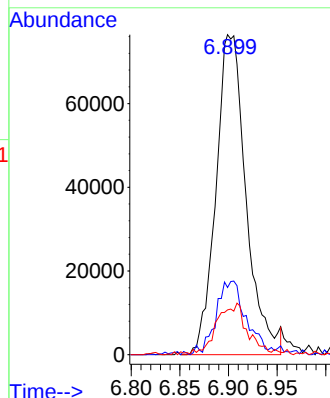
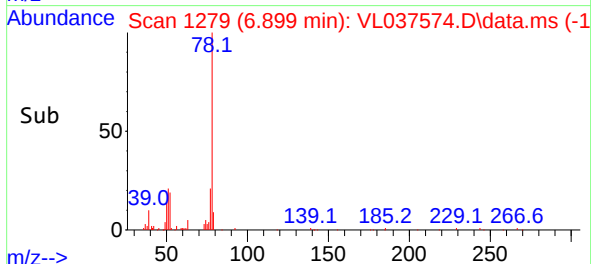
Instrument :
MSVOA_L
ClientSampled :
IA-1DUP



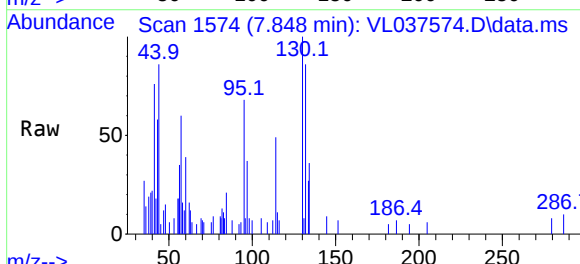
Tgt Ion: 78 Resp: 164593
Ion Ratio Lower Upper
78 100
77 21.0 18.2 27.4
50 14.0 14.6 21.8#

Manual Integrations
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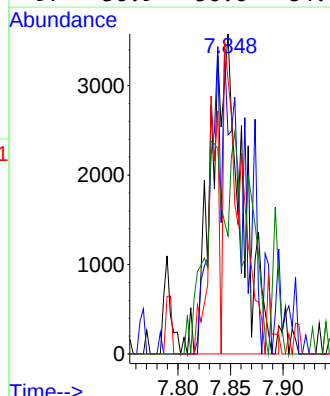
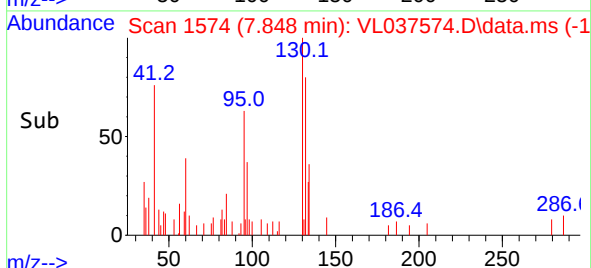
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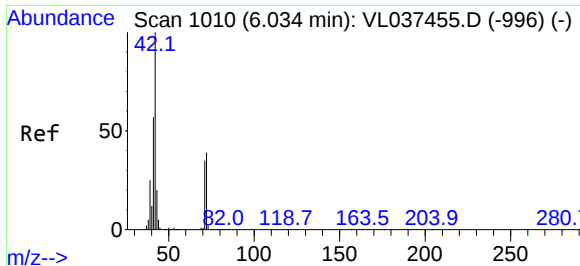


#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 7.848 min Scan# 1574
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20



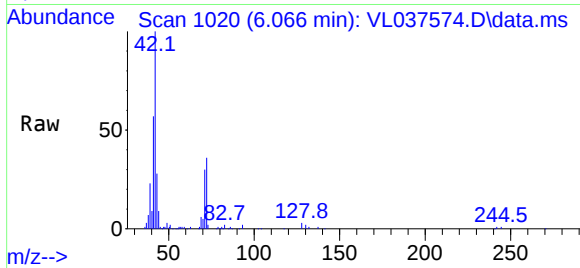
Tgt Ion: 130 Resp: 7339
Ion Ratio Lower Upper
130 100
95 68.4 89.2 133.8#
132 85.7 74.0 111.0
97 36.9 56.6 84.8#





#41
Tetrahydrofuran
Concen: 1.538 ppbv
RT: 6.066 min Scan# 1020
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

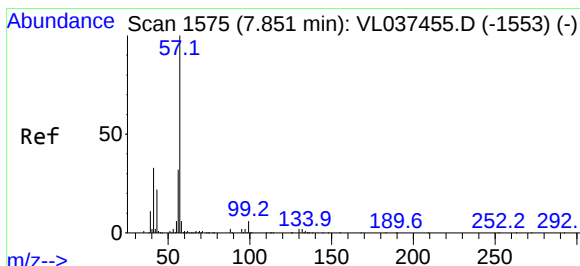
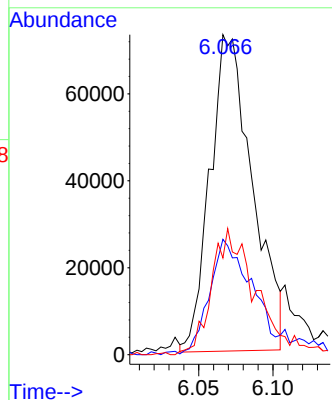
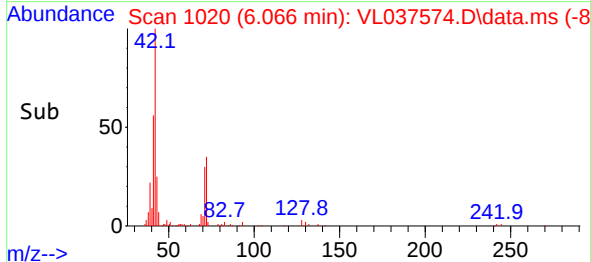
Instrument :
MSVOA_L
ClientSampled :
IA-1DUP



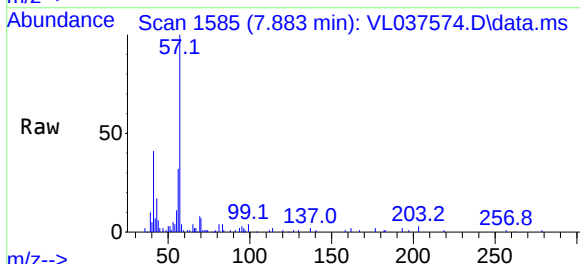
Tgt Ion: 42 Resp: 144787
Ion Ratio Lower Upper
42 100
72 42.4 32.2 48.4
71 43.0 30.5 45.7

Manual Integrations
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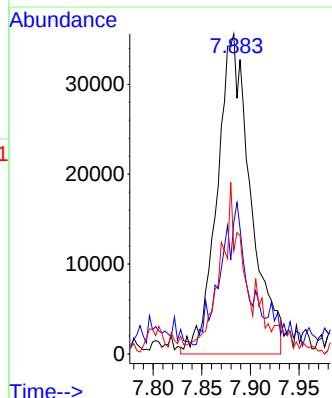
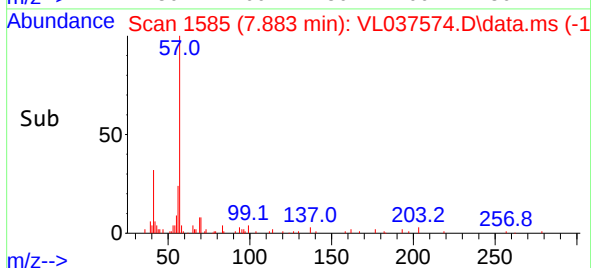
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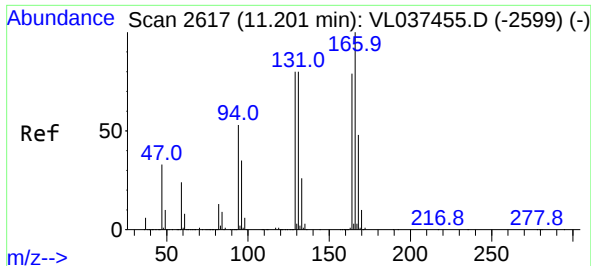


#44
2,2,4-Trimethylpentane
Concen: 0.127 ppbv m
RT: 7.883 min Scan# 1585
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20



Tgt Ion: 57 Resp: 85700
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.4#
56 47.1 25.4 38.2#





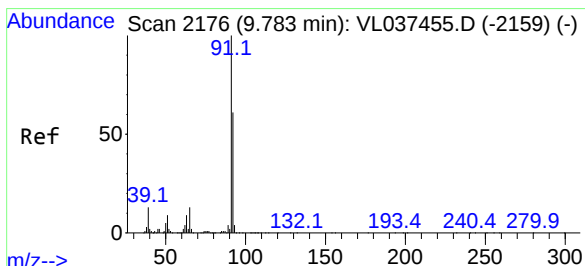
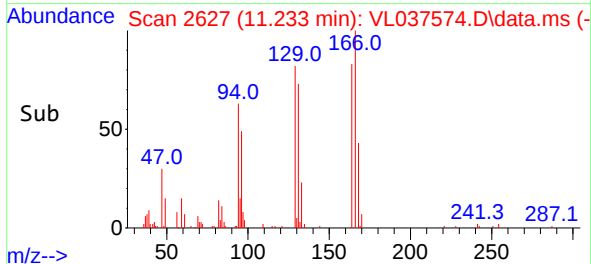
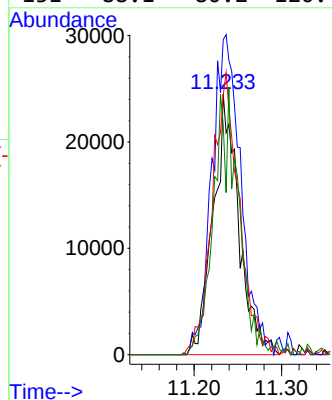
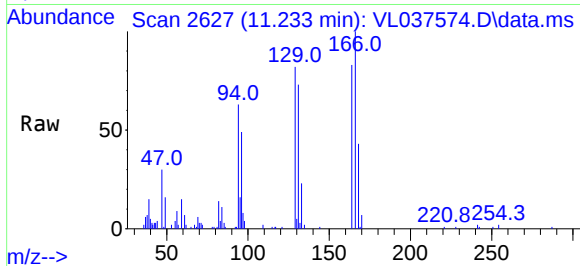
#52
Tetrachloroethene
Concen: 0.305 ppbv m
RT: 11.233 min Scan# 2627
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion:	164	Resp:	50233
Ion	Ratio	Lower	Upper
164	100		
166	120.9	100.7	151.1
129	99.5	80.9	121.3
131	88.1	80.2	120.4

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

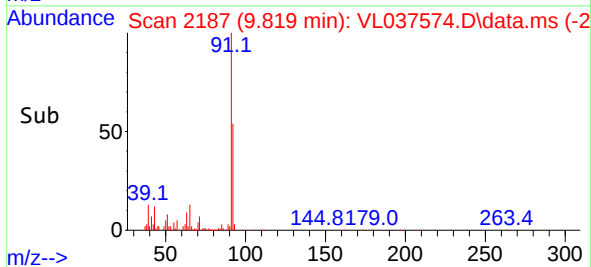
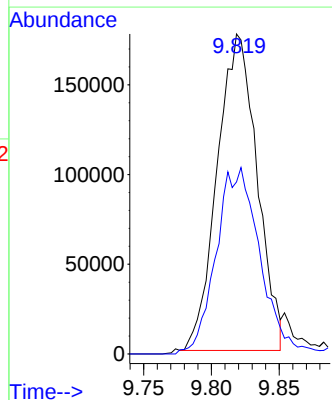
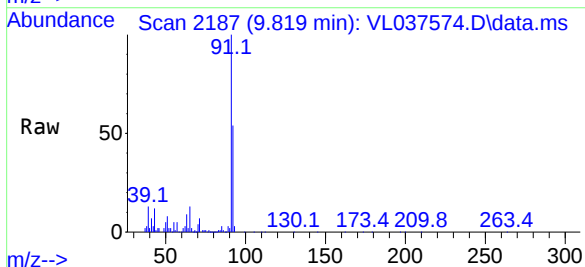
Manual Integrations
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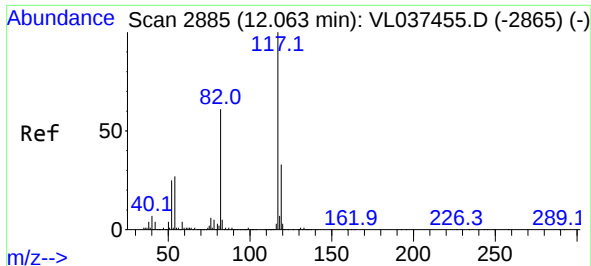
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#53
Toluene
Concen: 0.785 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.035 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion:	91	Resp:	360646
Ion	Ratio	Lower	Upper
91	100		
92	64.9	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: VL037574.D
Acq: 8 Sep 2021 16:20

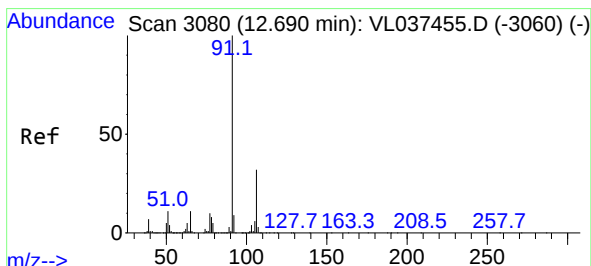
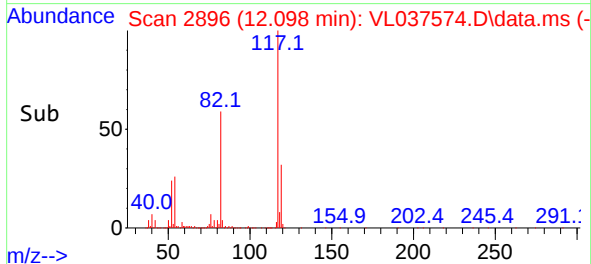
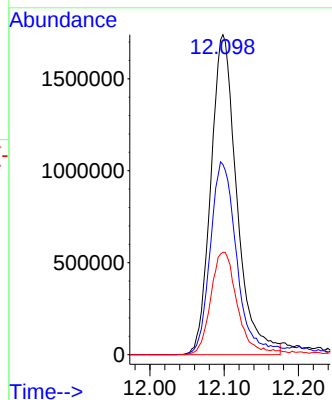
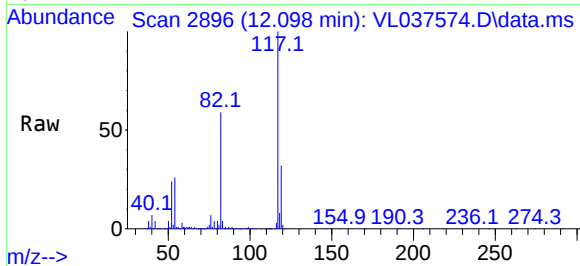
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tgt Ion: 117 Resp: 4231039

Ion	Ratio	Lower	Upper
117	100		
82	66.3	52.9	79.3
119	34.0	24.8	37.2

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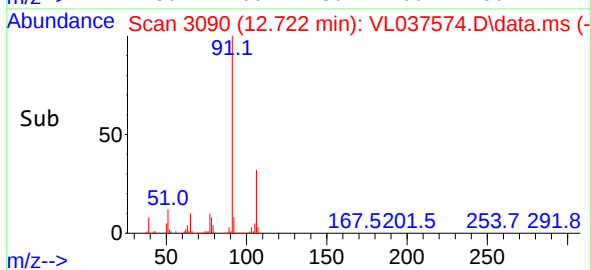
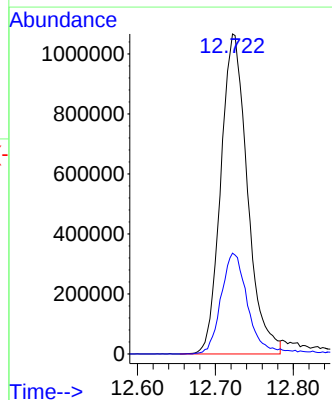
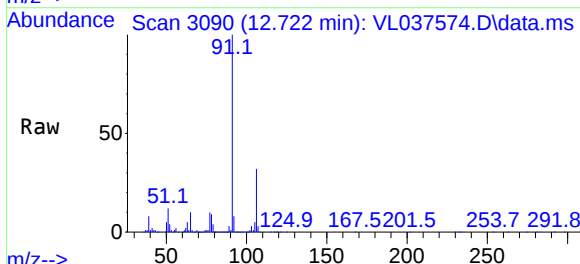
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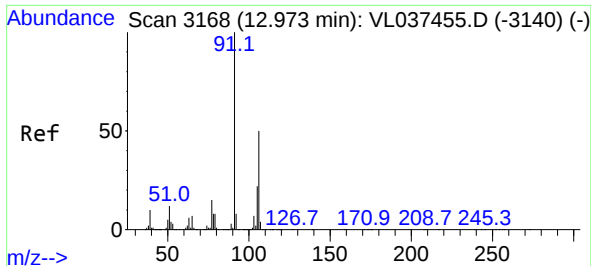


#58
Ethyl Benzene
Concen: 4.309 ppbv
RT: 12.722 min Scan# 3090
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 91 Resp: 2530127

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.7	38.5





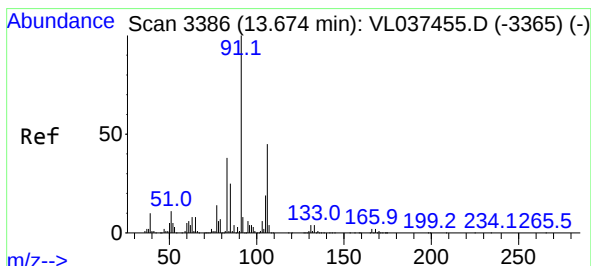
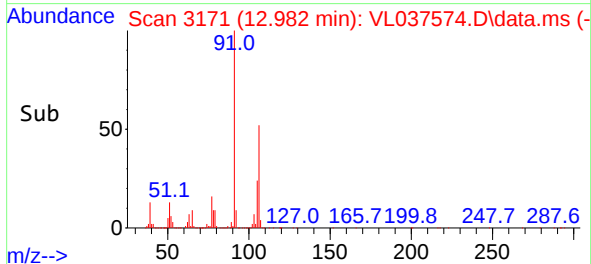
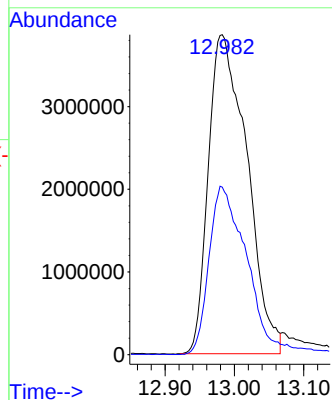
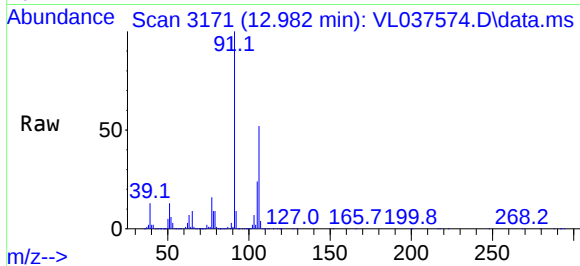
#59
m/p-Xylene
Concen: 29.311 ppbv
RT: 12.982 min Scan# 3171
Delta R.T. 0.009 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 91 Resp:14920006
Ion Ratio Lower Upper
91 100
106 53.2 36.9 55.3

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

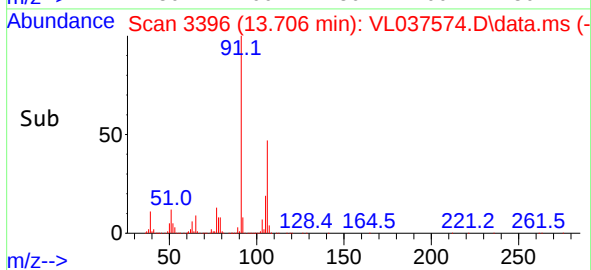
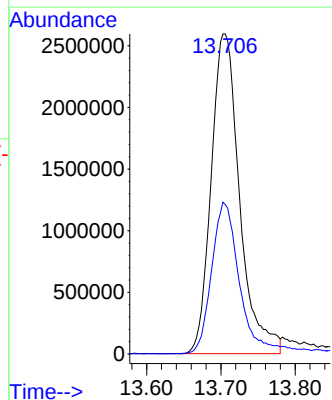
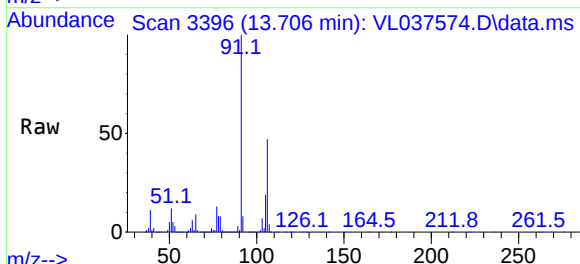
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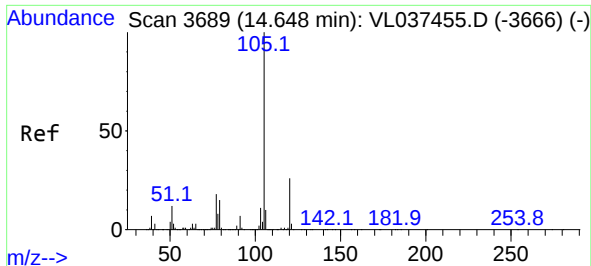
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#60
o-Xylene
Concen: 14.540 ppbv
RT: 13.706 min Scan# 3396
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 91 Resp: 6907929
Ion Ratio Lower Upper
91 100
106 48.7 23.7 71.1





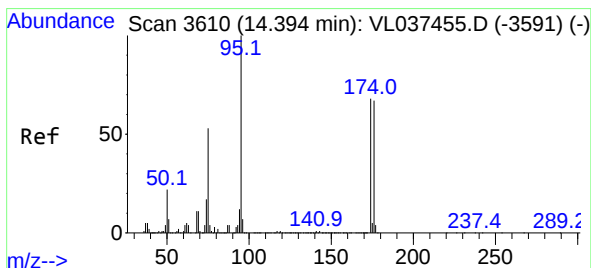
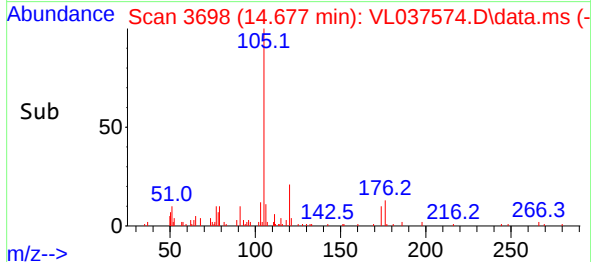
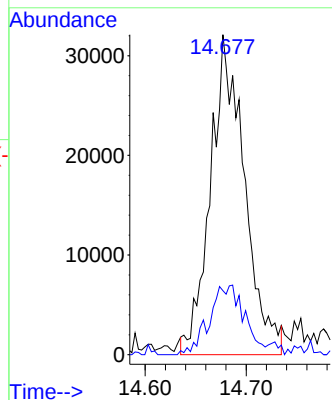
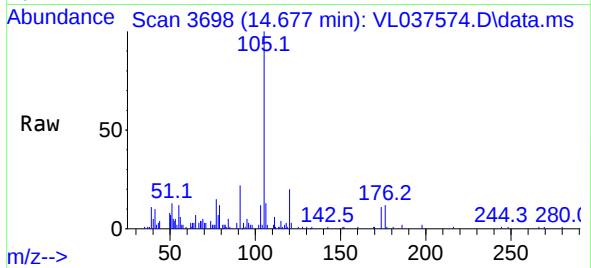
#62
Isopropylbenzene
Concen: 0.112 ppbv m
RT: 14.677 min Scan# 3698
Delta R.T. 0.029 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 105 Resp: 74997
Ion Ratio Lower Upper
105 100
120 25.2 21.5 32.3

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

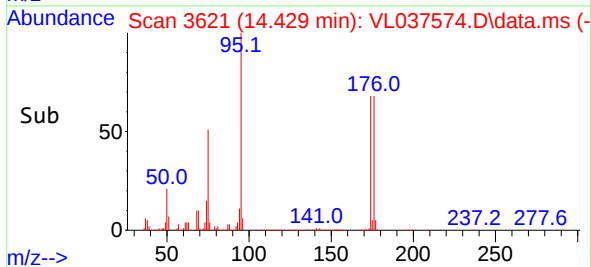
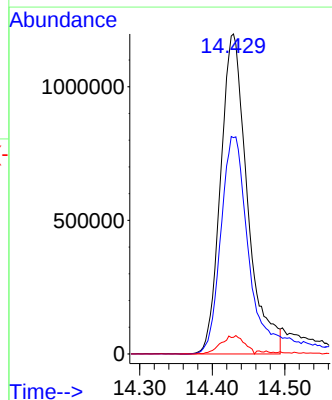
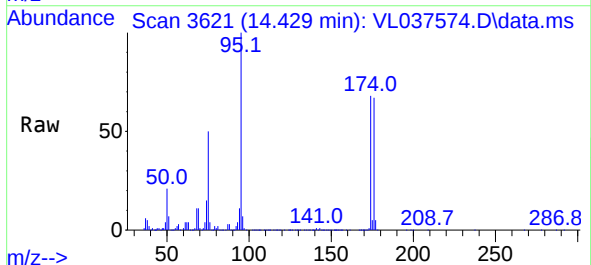
Manual Integrations
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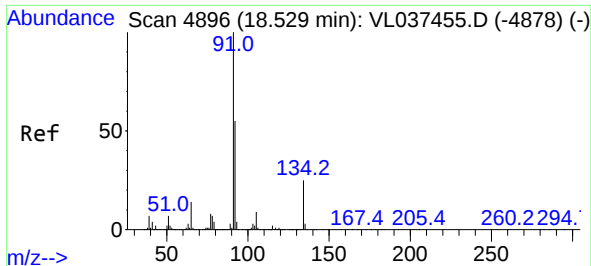
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.228 ppbv
RT: 14.429 min Scan# 3621
Delta R.T. 0.035 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 95 Resp: 3074421
Ion Ratio Lower Upper
95 100
174 76.4 59.6 89.4
175 6.1 4.6 7.0





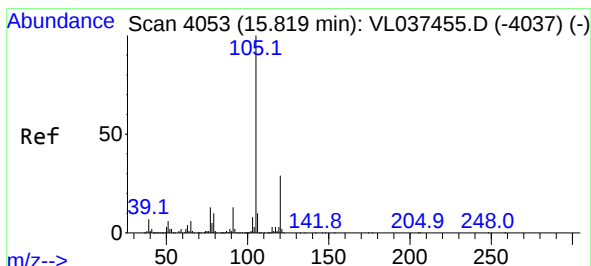
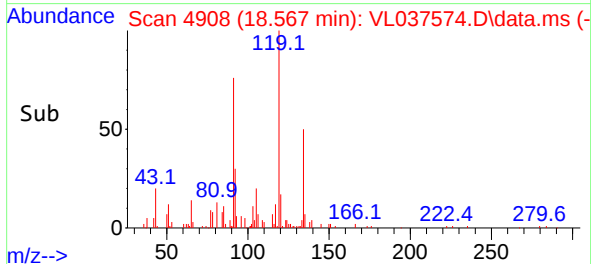
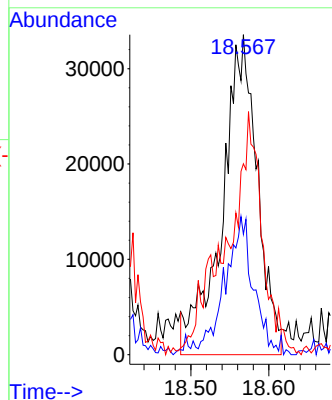
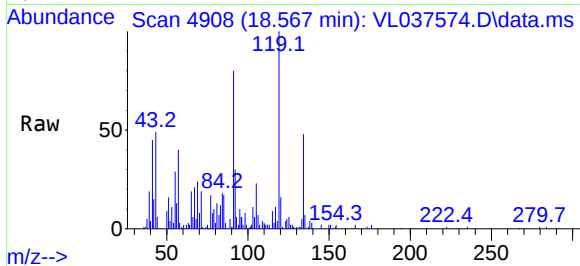
#70
n-Butylbenzene
Concen: 0.159 ppbv m
RT: 18.567 min Scan# 4908
Delta R.T. 0.038 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 91 Resp: 105525
Ion Ratio Lower Upper
91 100
92 36.3 44.0 66.0#
134 76.6 19.5 29.3#

Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

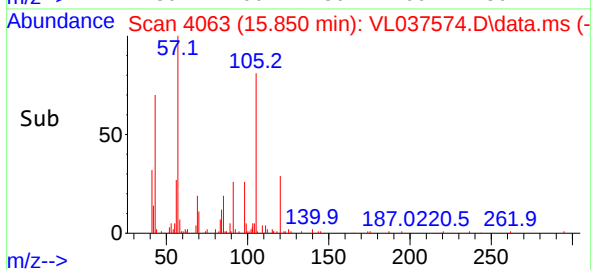
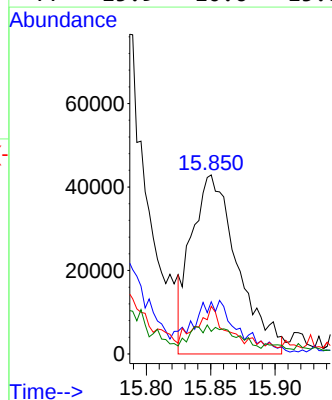
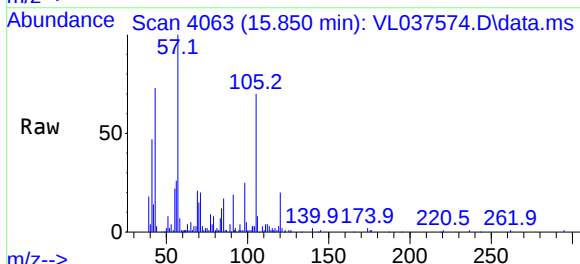
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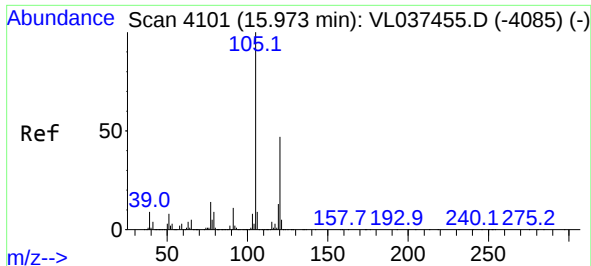
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#72
4-Ethyltoluene
Concen: 0.191 ppbv m
RT: 15.850 min Scan# 4063
Delta R.T. 0.032 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion: 105 Resp: 107694
Ion Ratio Lower Upper
105 100
120 28.7 24.7 37.1
91 15.5 9.8 14.8#
77 15.9 10.6 15.8#





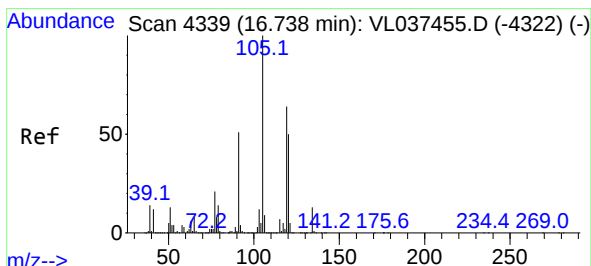
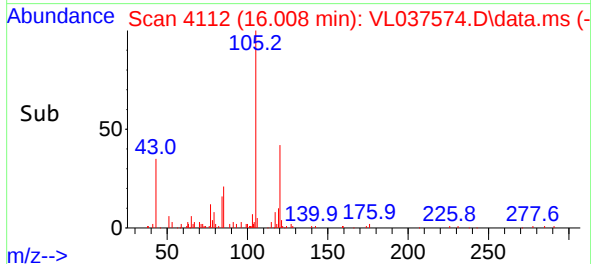
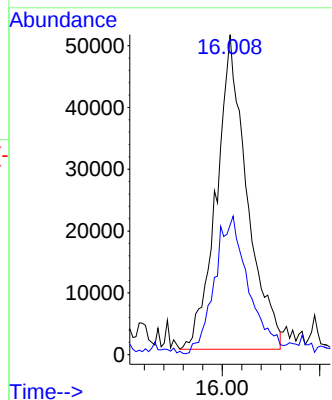
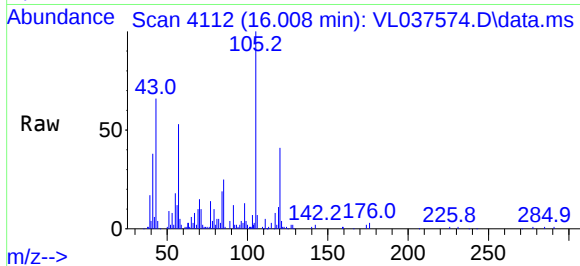
#73
1,3,5-Trimethylbenzene
Concen: 0.211 ppbv
RT: 16.008 min Scan# 4112
Delta R.T. 0.035 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion:105 Resp: 111223
Ion Ratio Lower Upper
105 100
120 40.2 37.6 56.4

Instrument :
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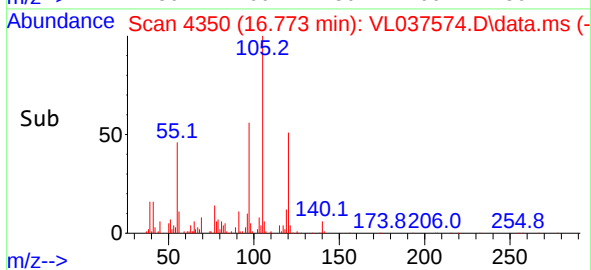
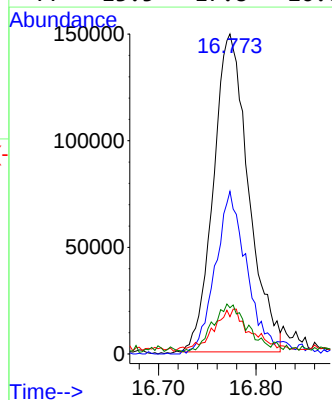
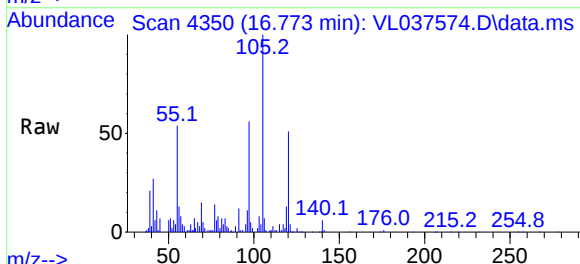
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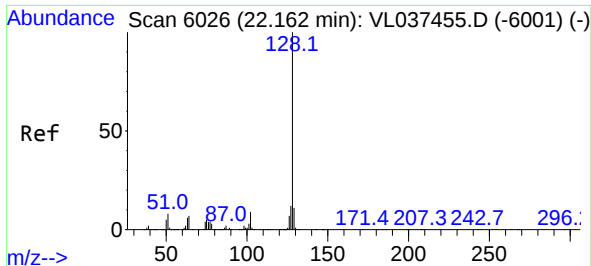
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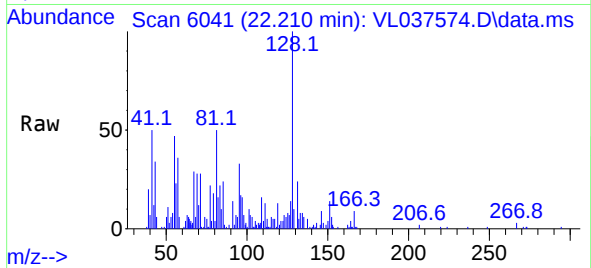
#74
1,2,4-Trimethylbenzene
Concen: 0.667 ppbv
RT: 16.773 min Scan# 4350
Delta R.T. 0.035 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20

Tgt Ion:105 Resp: 372878
Ion Ratio Lower Upper
105 100
120 51.3 40.4 60.6
91 9.8 44.6 67.0#
77 13.5 17.8 26.6#

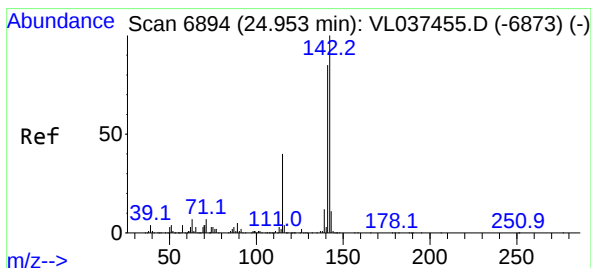
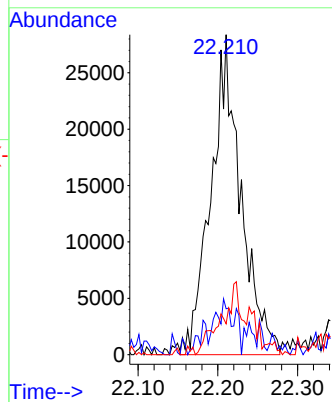
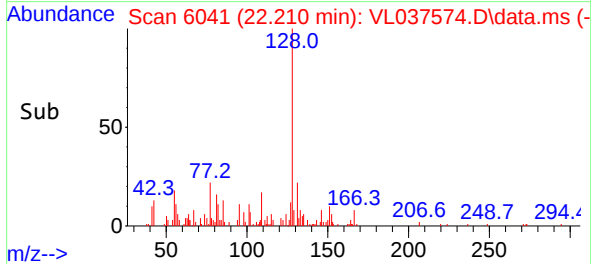




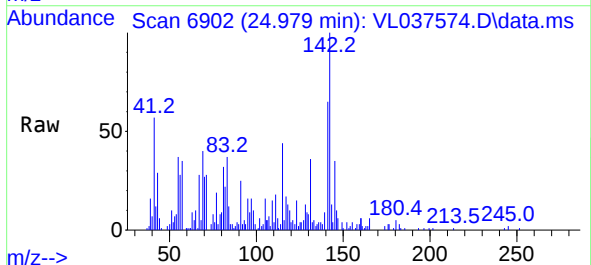
#79
Naphthalene
Concen: 0.197 ppbv m
RT: 22.210 min Scan# 6041
Delta R.T. 0.048 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20



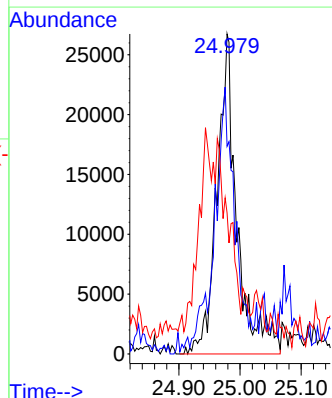
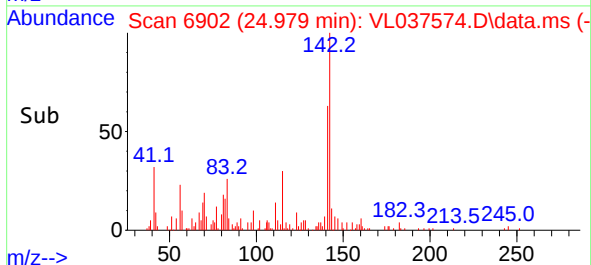
Tgt Ion:128 Resp: 73807
Ion Ratio Lower Upper
128 100
127 14.3 9.4 14.2#
129 9.7 8.8 13.2



#80
Naphthalene,2-methyl-
Concen: 0.585 ppbv
RT: 24.979 min Scan# 6902
Delta R.T. 0.025 min
Lab File: VL037574.D
Acq: 8 Sep 2021 16:20



Tgt Ion:142 Resp: 60980
Ion Ratio Lower Upper
142 100
141 85.9 64.7 97.1
115 96.0 28.4 42.6#



Instrument :
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