

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037587.D
 Acq On : 9 Sep 2021 1:17
 Operator : SY/AP
 Sample : M3663-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Manual Integrations
 APPROVED

MMDadoda
 9/10/2021 10:53:36 AM

Quant Time: Sep 09 09:15:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1660987	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.185	114	4750326	10.000	ppbv	0.03
55) Chlorobenzene-d5	12.098	117	4302021	10.000	ppbv	0.04

9/10/2021 10:53:36 AM

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.426	95	3105739	10.162	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.980	51	73470m	0.231	ppbv	
9) Propene	3.021	41	745164	6.548	ppbv	86
10) Heptane	8.131	43	137121m	0.523	ppbv	
11) Trichlorofluoromethane	3.957	101	22639m	0.090	ppbv	
13) Ethanol	3.619	45	110688m	9.996	ppbv	
15) Acetone	3.854	43	5459105	32.294	ppbv	100
17) tert-Butyl alcohol	4.298	59	450234	2.916	ppbv	96
19) Isopropyl Alcohol	3.976	45	90351	0.933	ppbv #	95
20) Methylene Chloride	4.356	84	206211	2.436	ppbv	93
26) Hexane	5.697	57	525419	2.504	ppbv #	46
27) Carbon Disulfide	4.562	76	224072	1.198	ppbv	99
29) Chloroform	5.767	83	37674m	0.127	ppbv	
30) Cyclohexane	7.134	84	46320m	0.265	ppbv	
32) 1,1,1-Trichloroethane	6.526	97	158965	0.544	ppbv	97
34) 2-Butanone	5.256	43	829942	4.278	ppbv	94
36) Benzene	6.902	78	234253m	0.587	ppbv	
38) Trichloroethene	7.844	130	4263404m	26.021	ppbv	
52) Tetrachloroethene	11.243	164	5843360	35.709	ppbv	97
53) Toluene	9.819	91	4690739	10.287	ppbv	99
58) Ethyl Benzene	12.725	91	985723	1.651	ppbv	92
59) m/p-Xylene	12.979	91	2661268	5.142	ppbv	96
60) o-Xylene	13.706	91	882934	1.828	ppbv	98
72) 4-Ethyltoluene	15.851	105	238875	0.416	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.008	105	125982	0.236	ppbv	90
74) 1,2,4-Trimethylbenzene	16.773	105	695965	1.225	ppbv #	67
79) Naphthalene	22.214	128	83598m	0.220	ppbv	

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

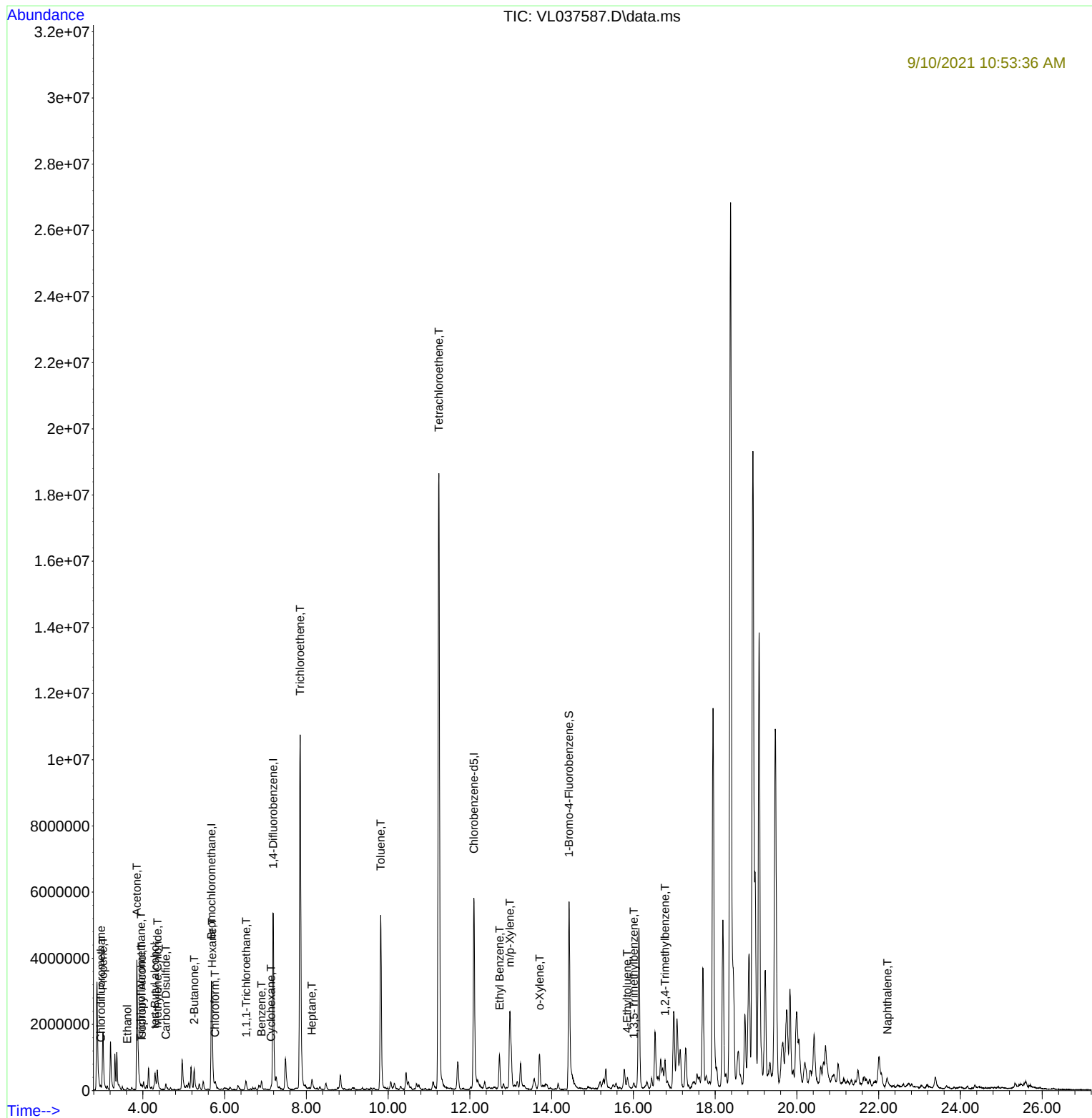
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
Data File : VL037587.D
Acq On : 9 Sep 2021 1:17
Operator : SY/AP
Sample : M3663-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

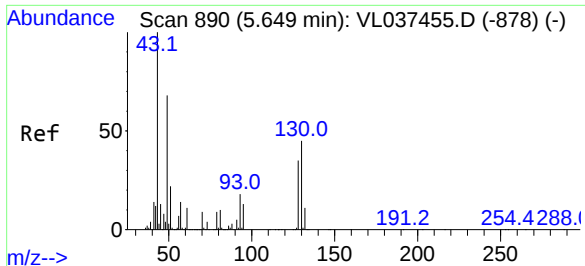
Instrument :
MSVOA_L
ClientSampleId :
SV-2

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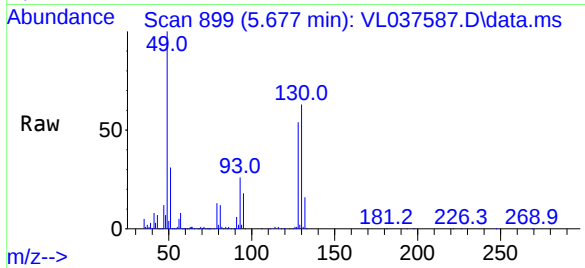
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9/10/2021 10:53:36 AM

Quant Time: Sep 09 09:15:49 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



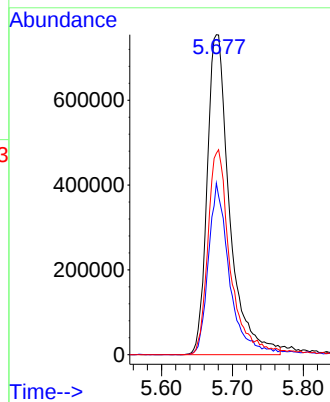
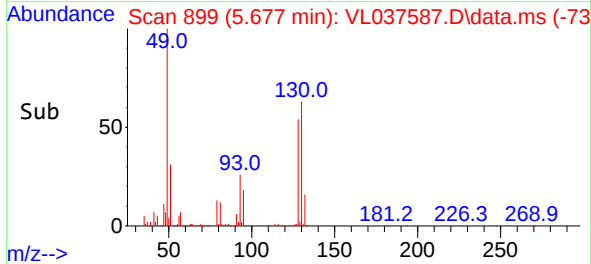


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.677 min Scan# 899
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17



Tgt Ion: 49 Resp: 1660987

Ion	Ratio	Lower	Upper
49	100		
128	51.5	27.5	82.4
130	65.6	34.0	101.8

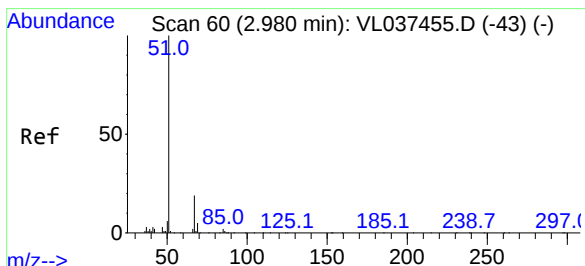


Instrument :
MSVOA_L
ClientSampleId :
SV-2

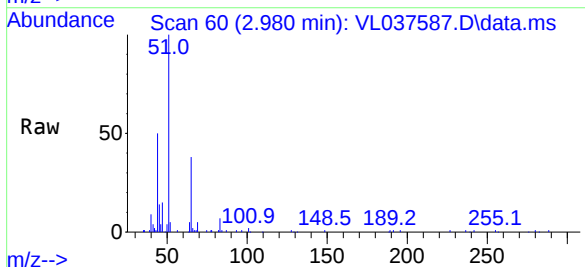
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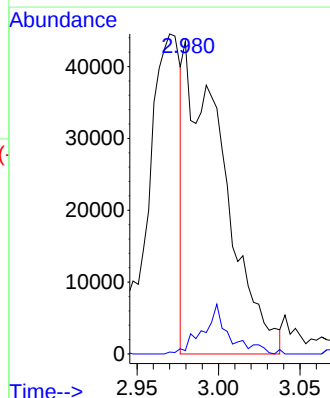
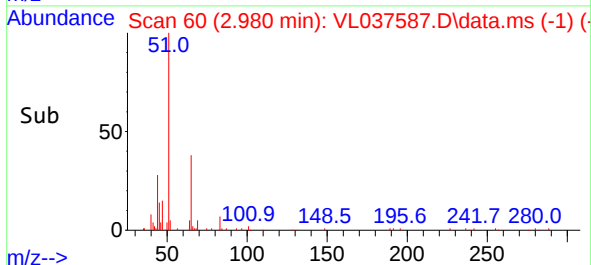


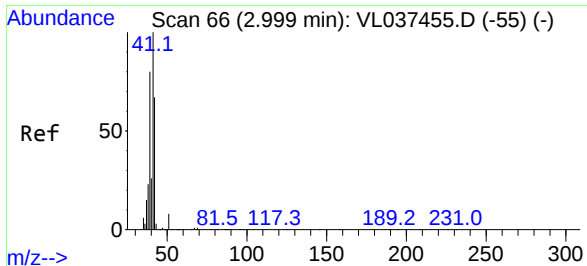
#3
Chlorodifluoromethane
Concen: 0.231 ppbv m
RT: 2.980 min Scan# 60
Delta R.T. -0.000 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17



Tgt Ion: 51 Resp: 73470

Ion	Ratio	Lower	Upper
51	100		
67	10.7	14.2	21.2#





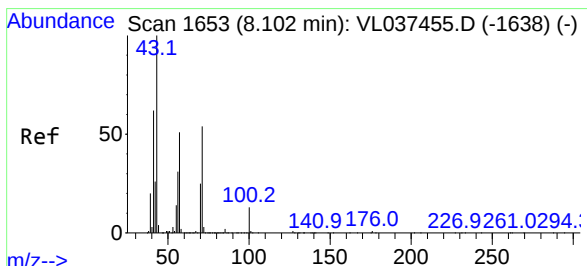
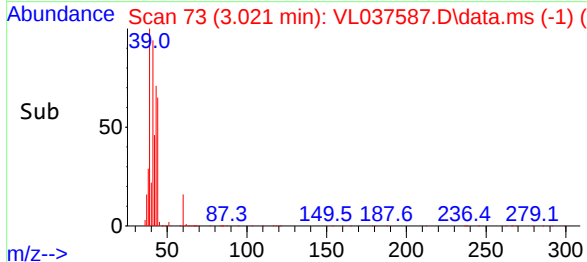
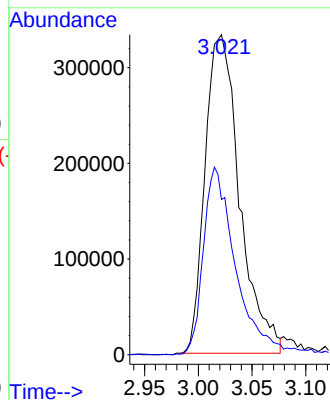
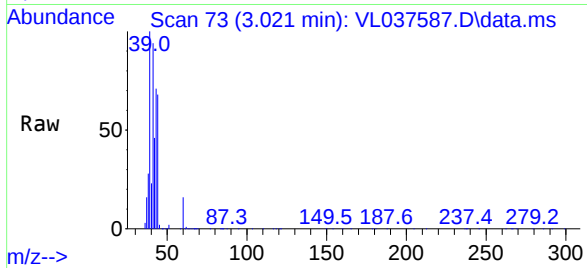
#9
Propene
Concen: 6.548 ppbv
RT: 3.021 min Scan# 73
Delta R.T. 0.022 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 41 Resp: 745164
Ion Ratio Lower Upper
41 100
42 55.8 53.7 80.5

Instrument :
MSVOA_L
ClientSampleId :
SV-2

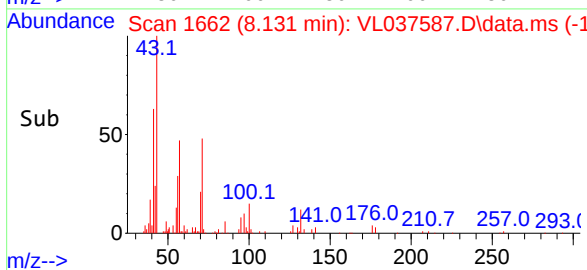
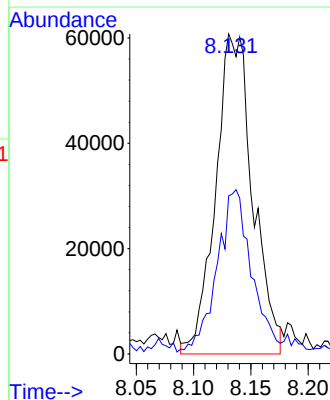
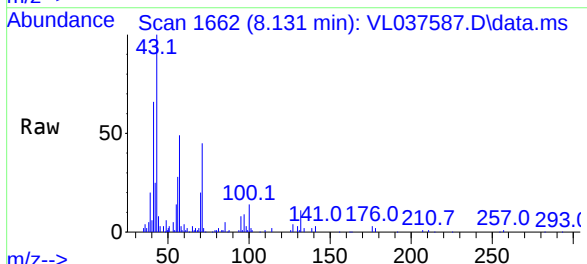
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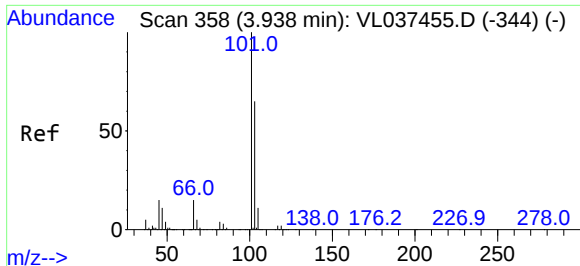
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#10
Heptane
Concen: 0.523 ppbv m
RT: 8.131 min Scan# 1662
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 43 Resp: 137121
Ion Ratio Lower Upper
43 100
57 50.0 41.0 61.6





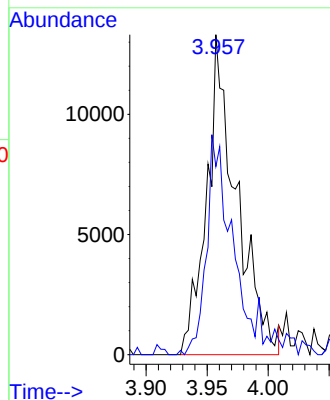
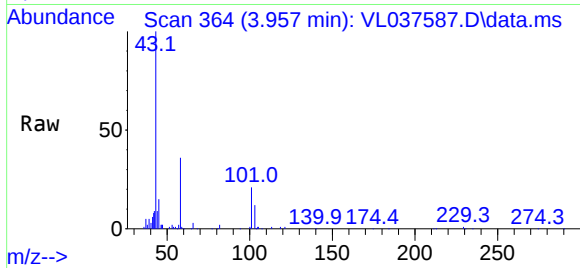
#11
Trichlorofluoromethane
Concen: 0.090 ppbv m
RT: 3.957 min Scan# 364
Delta R.T. 0.019 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion:101 Resp: 22639
Ion Ratio Lower Upper
101 100
103 58.8 51.8 77.6

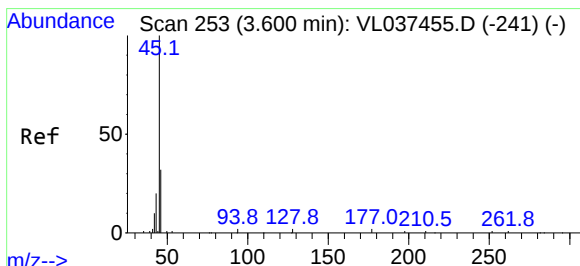
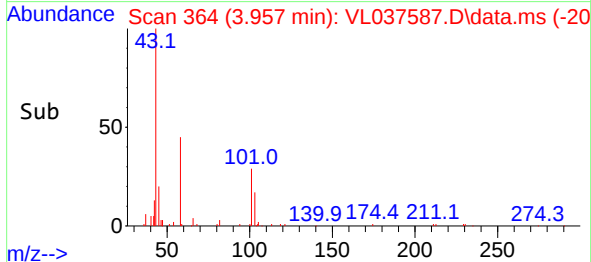
Instrument :
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9/10/2021 10:53:36 AM

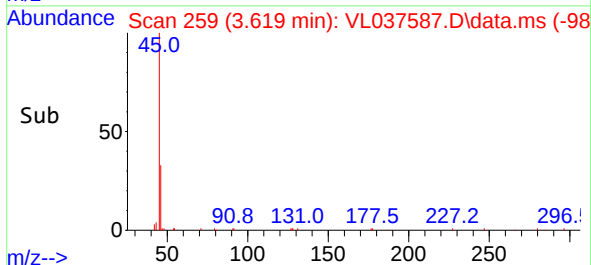
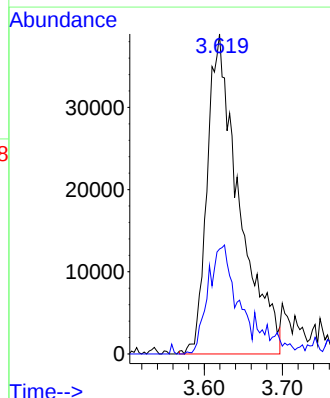
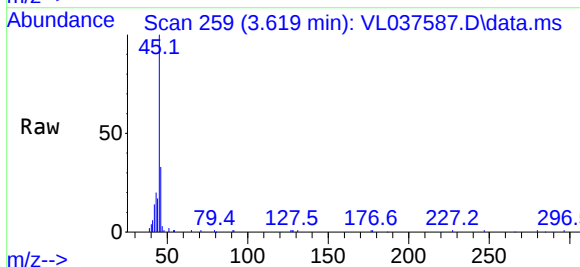


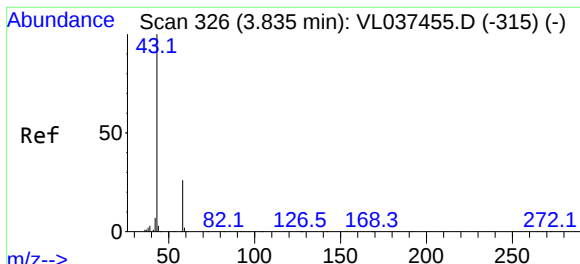
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#13
Ethanol
Concen: 9.996 ppbv m
RT: 3.619 min Scan# 259
Delta R.T. 0.019 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

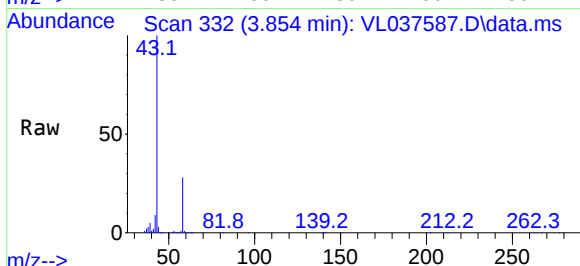
Tgt Ion: 45 Resp: 110688
Ion Ratio Lower Upper
45 100
46 0.0 14.1 56.5#





#15
Acetone
Concen: 32.294 ppbv
RT: 3.854 min Scan# 332
Delta R.T. 0.019 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

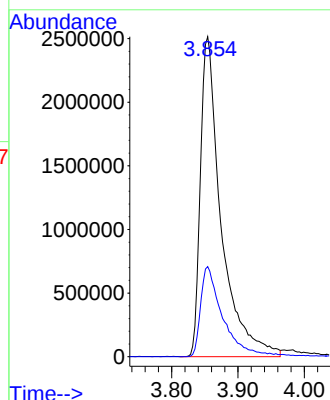
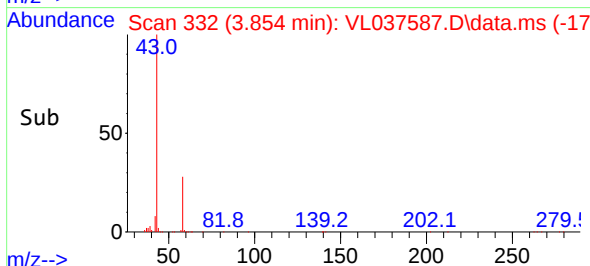
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SV-2



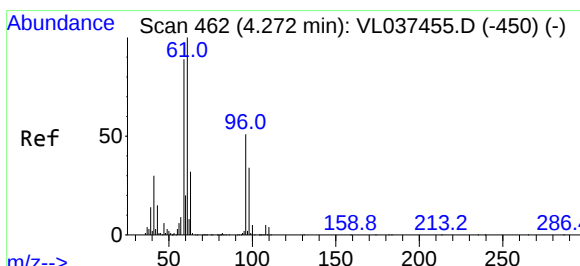
Tgt Ion: 43 Resp: 5459105
Ion Ratio Lower Upper
43 100
58 30.8 24.8 37.2

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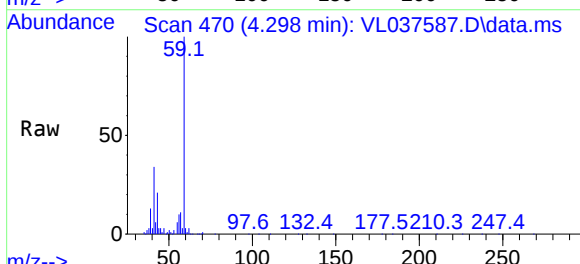
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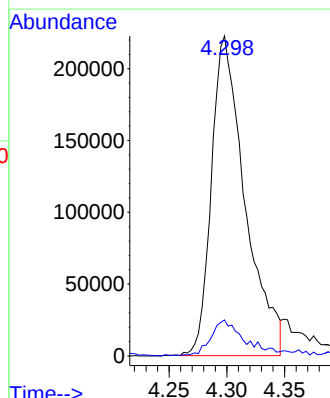
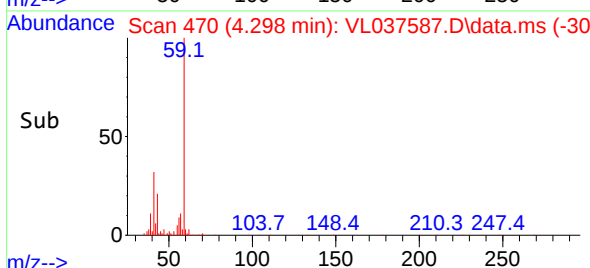
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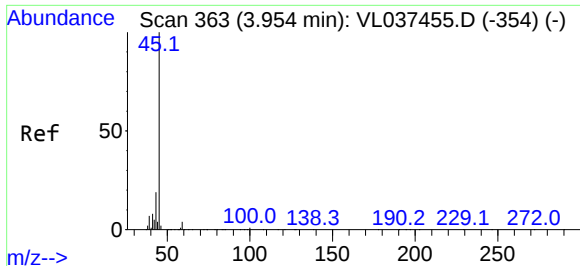


#17
tert-Butyl alcohol
Concen: 2.916 ppbv
RT: 4.298 min Scan# 470
Delta R.T. 0.026 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17



Tgt Ion: 59 Resp: 450234
Ion Ratio Lower Upper
59 100
57 11.9 8.3 12.5





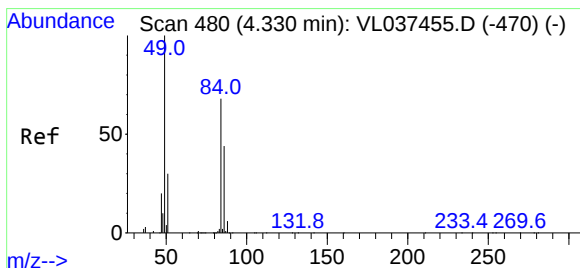
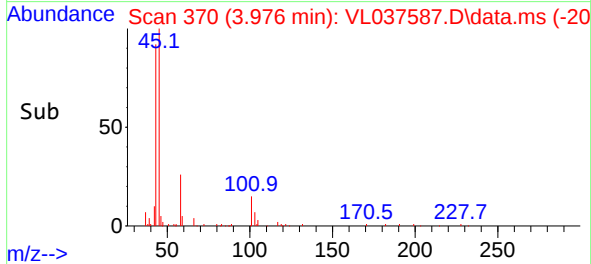
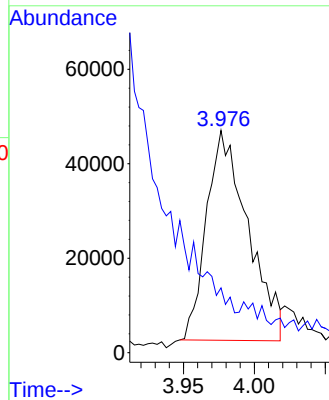
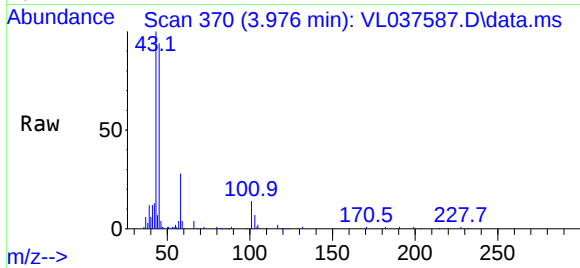
#19
Isopropyl Alcohol
Concen: 0.933 ppbv
RT: 3.976 min Scan# 370
Delta R.T. 0.022 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 45 Resp: 90351
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#

Instrument :
MSVOA_L
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SV-2

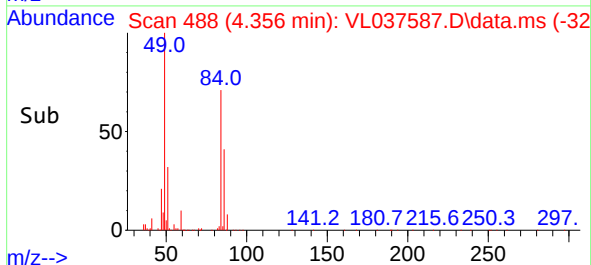
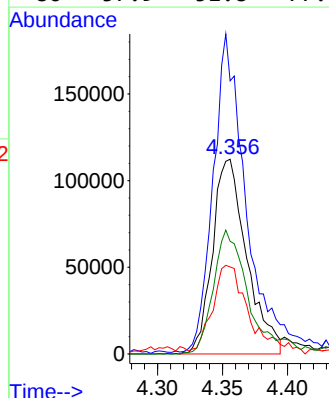
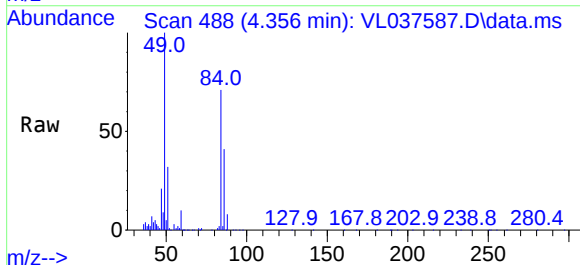
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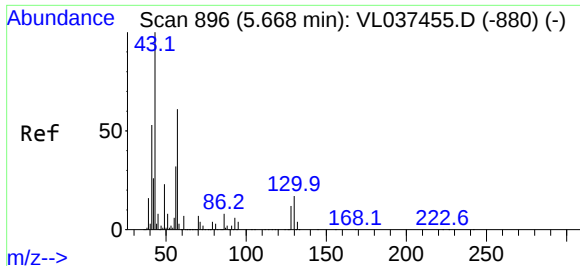
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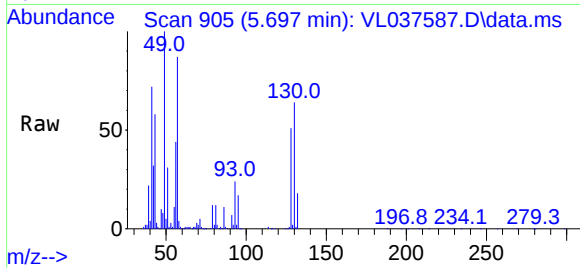
#20
Methylene Chloride
Concen: 2.436 ppbv
RT: 4.356 min Scan# 488
Delta R.T. 0.026 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 84 Resp: 206211
Ion Ratio Lower Upper
84 100
49 139.2 118.2 177.2
51 40.8 36.6 55.0
86 57.9 51.8 77.6



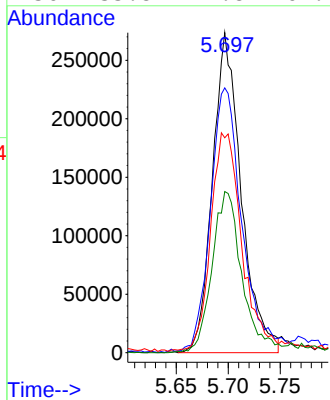


#26
Hexane
Concen: 2.504 ppbv
RT: 5.697 min Scan# 905
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17



Tgt Ion: 57 Resp: 525419

Ion	Ratio	Lower	Upper
57	100		
41	91.4	72.3	108.5
43	74.7	172.3	258.5#
56	55.8	42.8	64.2

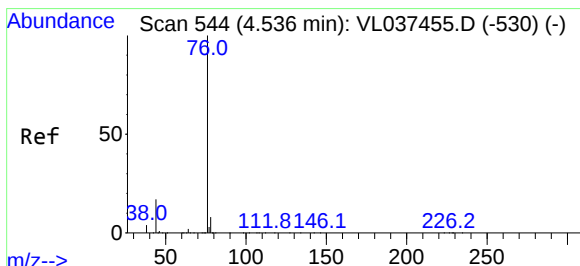
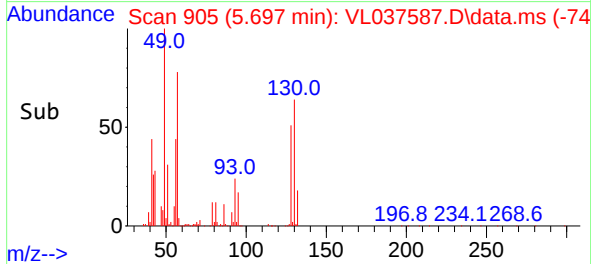


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SV-2

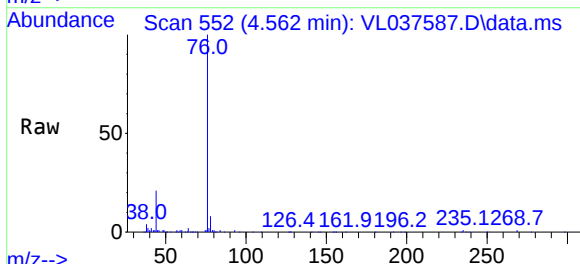
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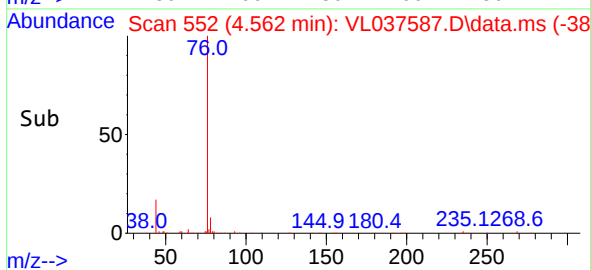
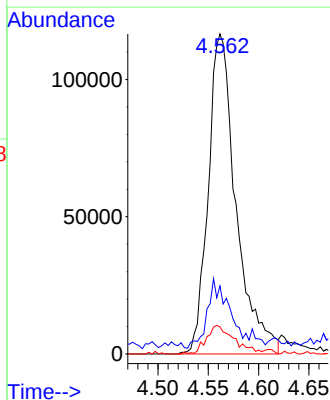


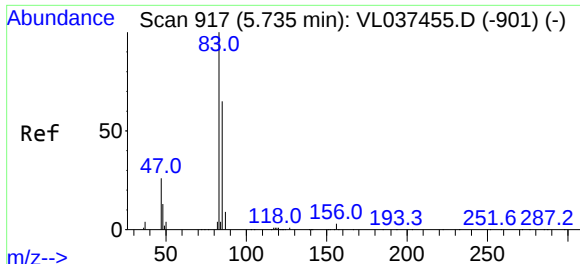
#27
Carbon Disulfide
Concen: 1.198 ppbv
RT: 4.562 min Scan# 552
Delta R.T. 0.026 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17



Tgt Ion: 76 Resp: 224072

Ion	Ratio	Lower	Upper
76	100		
44	18.0	13.9	20.9
78	9.8	7.9	11.9





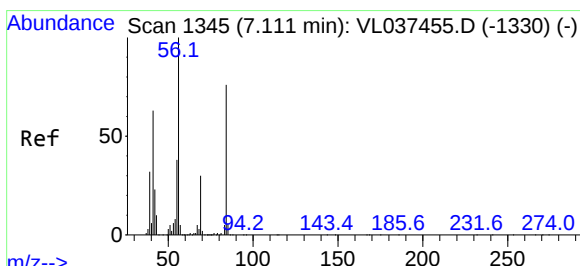
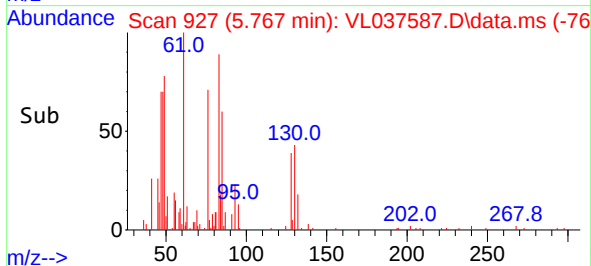
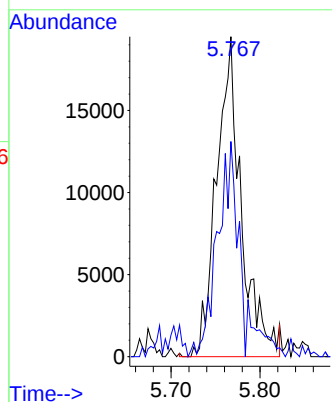
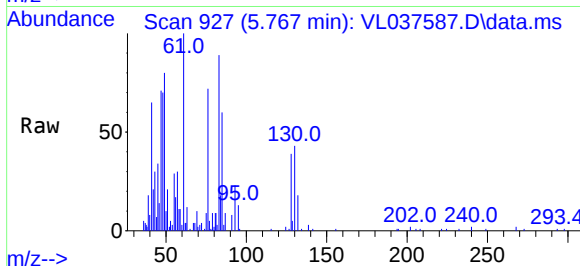
#29
Chloroform
Concen: 0.127 ppbv m
RT: 5.767 min Scan# 927
Delta R.T. 0.032 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 83 Resp: 37674
Ion Ratio Lower Upper
83 100
85 67.2 52.3 78.5

Instrument :
MSVOA_L
ClientSampled :
SV-2

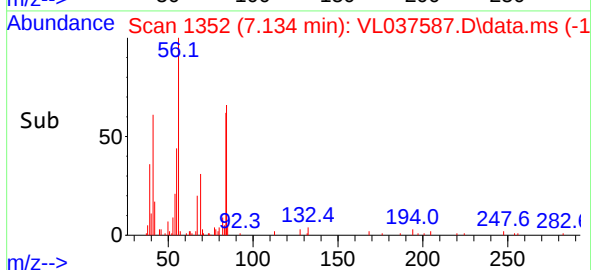
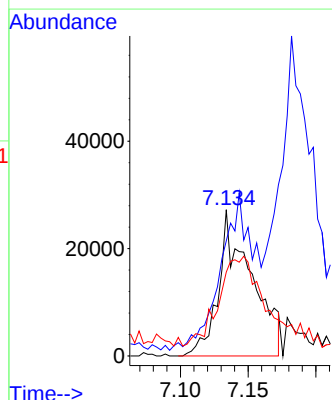
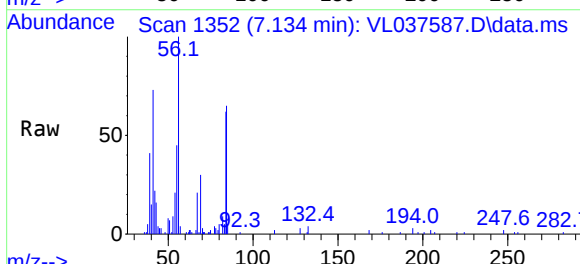
Manual Integrations
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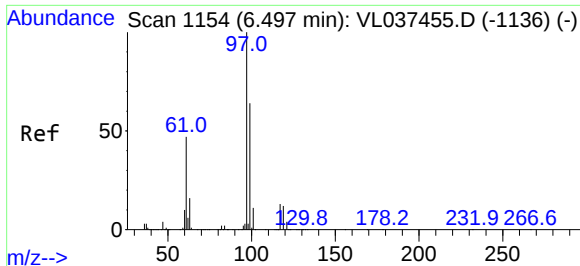
MMDadoda
9/10/2021 10:53:36 AM



#30
Cyclohexane
Concen: 0.265 ppbv m
RT: 7.134 min Scan# 1352
Delta R.T. 0.022 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 84 Resp: 46320
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 97.3 67.0 100.6





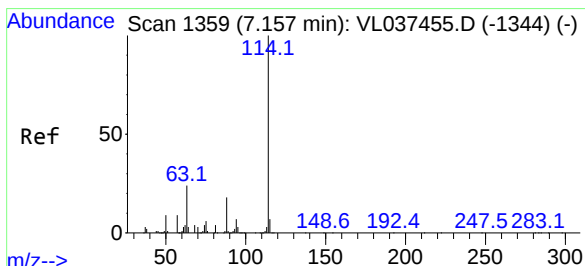
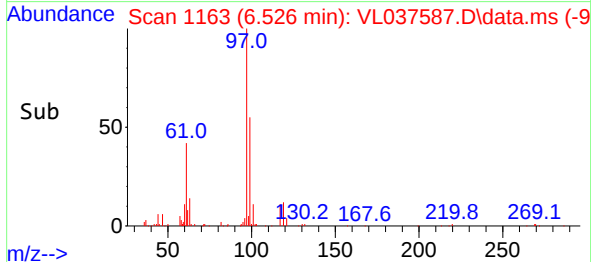
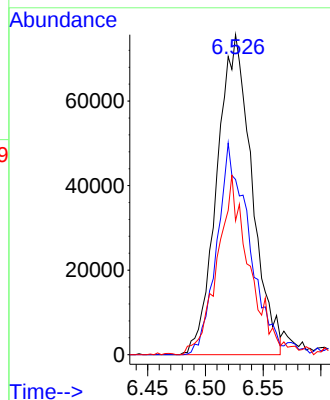
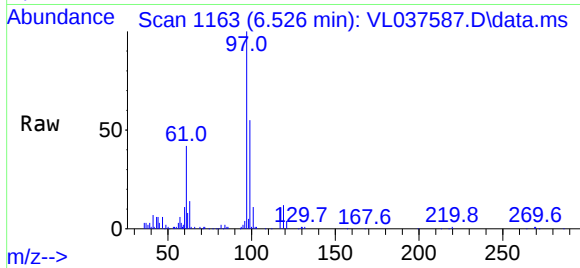
#32
1,1,1-Trichloroethane
Concen: 0.544 ppbv
RT: 6.526 min Scan# 1163
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 97 Resp: 158965
Ion Ratio Lower Upper
97 100
99 64.0 51.8 77.6
61 53.2 39.6 59.4

Instrument :
MSVOA_L
ClientSampled :
SV-2

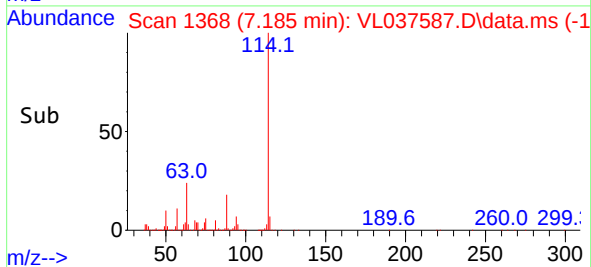
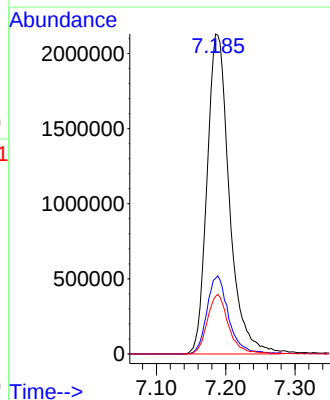
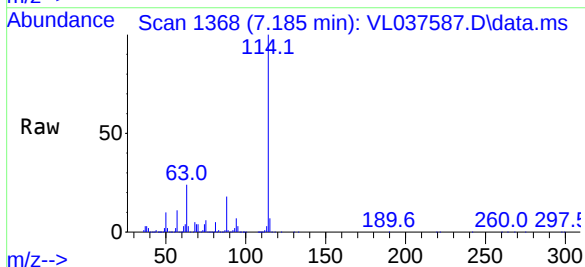
Manual Integrations
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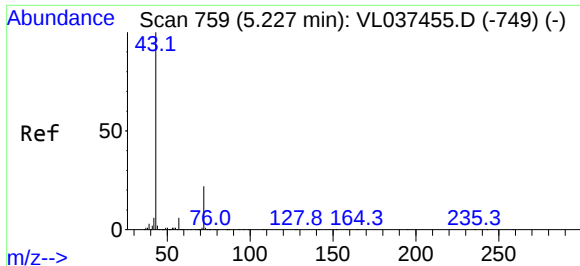
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.185 min Scan# 1368
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 114 Resp: 4750326
Ion Ratio Lower Upper
114 100
63 24.0 19.3 28.9
88 17.9 14.2 21.4





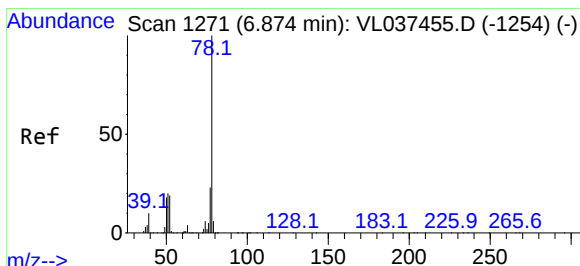
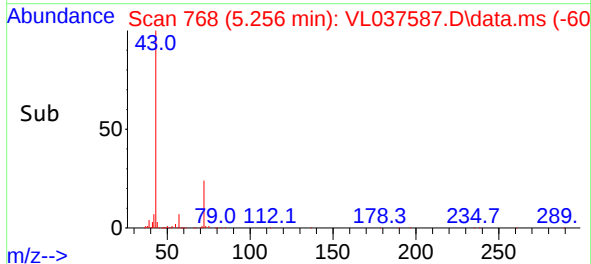
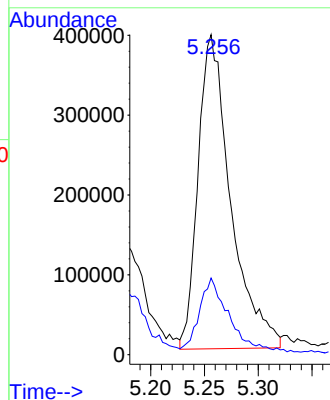
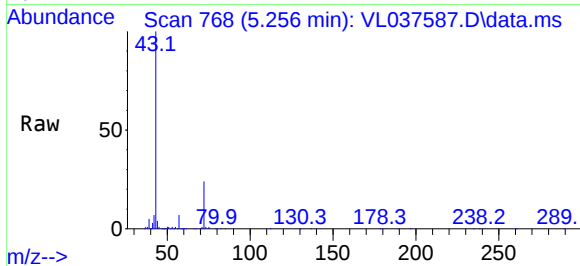
#34
2-Butanone
Concen: 4.278 ppbv
RT: 5.256 min Scan# 768
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 43 Resp: 829942
Ion Ratio Lower Upper
43 100
72 24.6 17.4 26.0

Instrument :
MSVOA_L
ClientSampleId :
SV-2

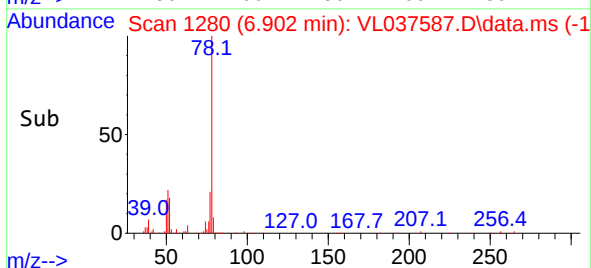
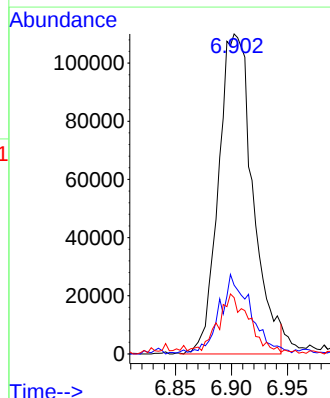
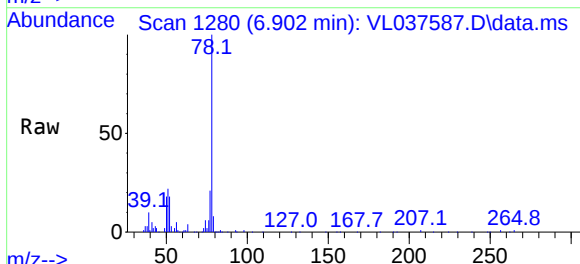
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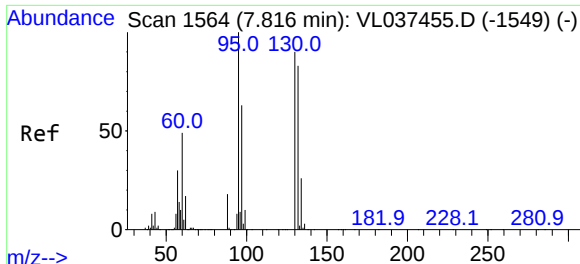
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#36
Benzene
Concen: 0.587 ppbv m
RT: 6.902 min Scan# 1280
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 78 Resp: 234253
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.4
50 17.6 14.6 21.8





#38
Trichloroethene
Concen: 26.021 ppbv m
RT: 7.844 min Scan# 1573
Delta R.T. 0.029 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

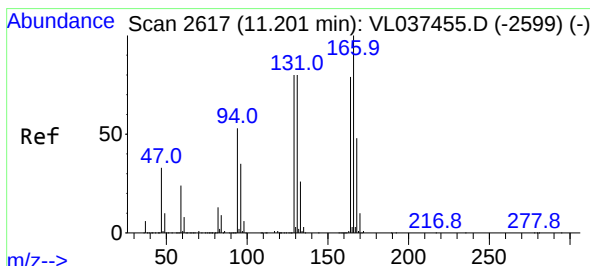
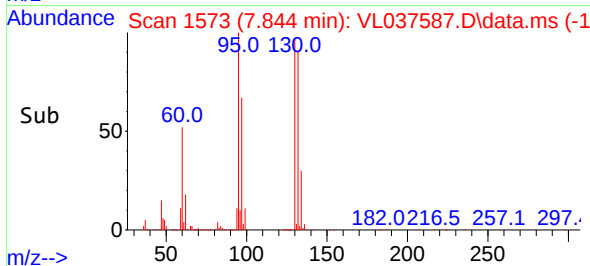
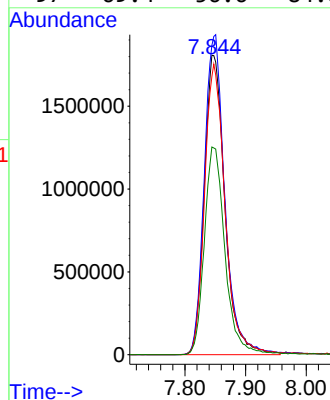
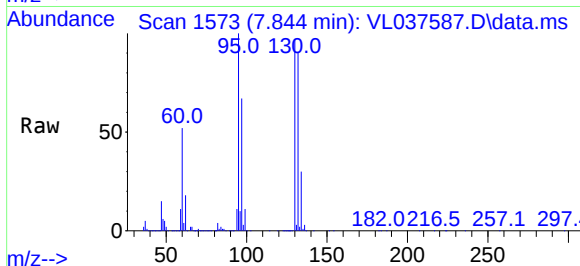
Tgt Ion:130 Resp: 4263404

Ion	Ratio	Lower	Upper
130	100		
95	103.3	89.2	133.8
132	92.9	74.0	111.0
97	69.4	56.6	84.8

Instrument :
MSVOA_L
ClientSampled :
SV-2

Manual Integrations
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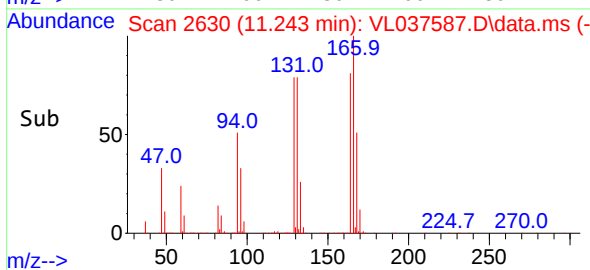
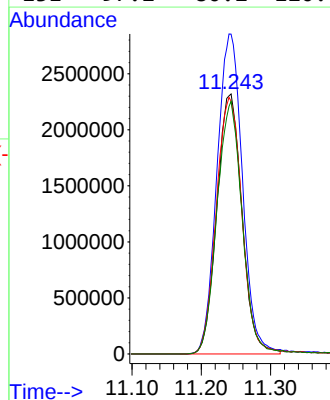
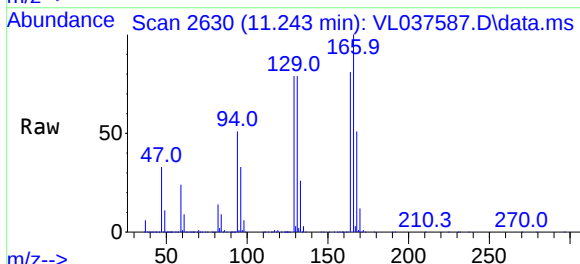
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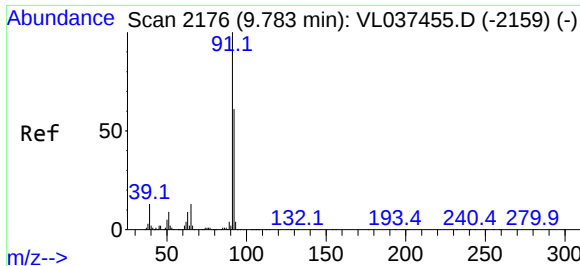


#52
Tetrachloroethene
Concen: 35.709 ppbv
RT: 11.243 min Scan# 2630
Delta R.T. 0.042 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion:164 Resp: 5843360

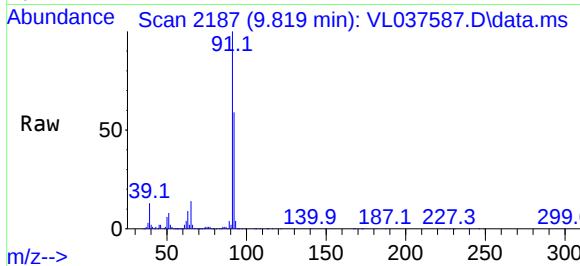
Ion	Ratio	Lower	Upper
164	100		
166	123.0	100.7	151.1
129	97.2	80.9	121.3
131	97.2	80.2	120.4





#53
Toluene
Concen: 10.287 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.035 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

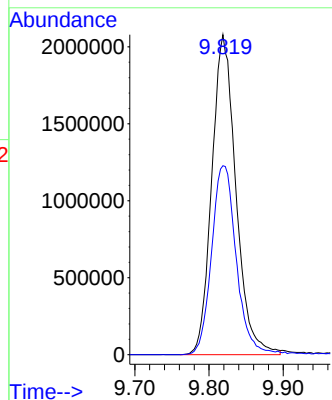
Instrument :
MSVOA_L
ClientSampled :
SV-2



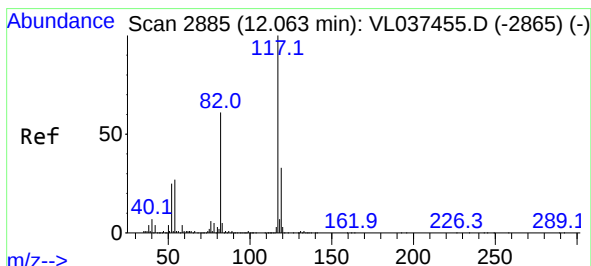
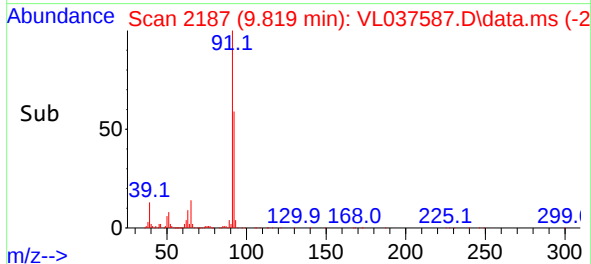
Tgt Ion: 91 Resp: 4690739
Ion Ratio Lower Upper
91 100
92 61.7 48.8 73.2

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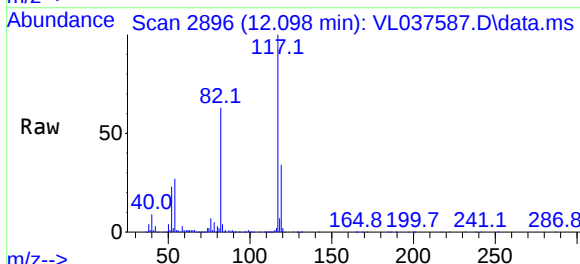
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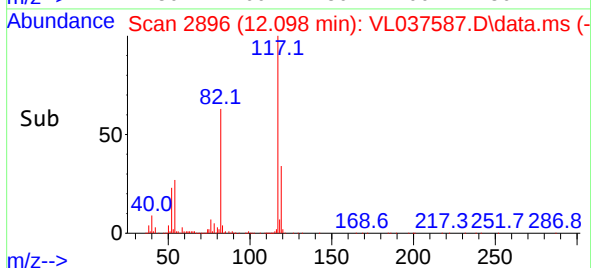
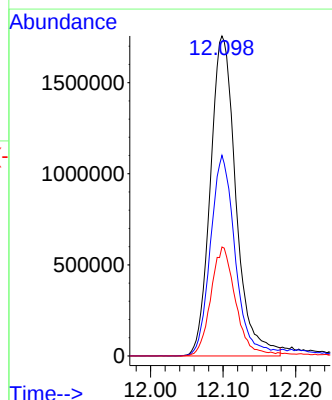
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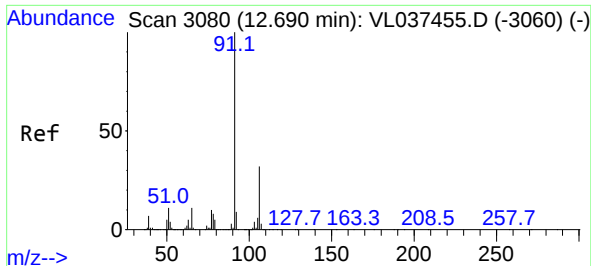


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.098 min Scan# 2896
Delta R.T. 0.035 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17



Tgt Ion: 117 Resp: 4302021
Ion Ratio Lower Upper
117 100
82 63.7 52.9 79.3
119 34.1 24.8 37.2





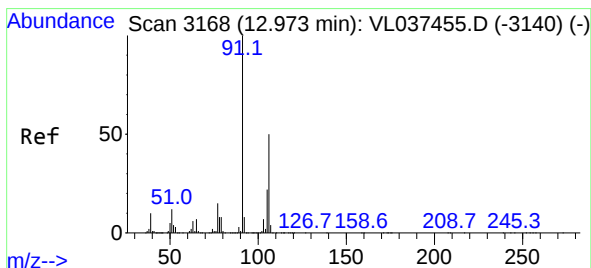
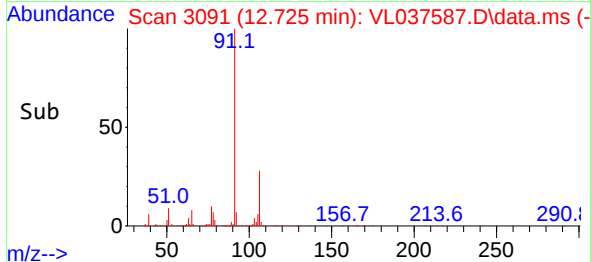
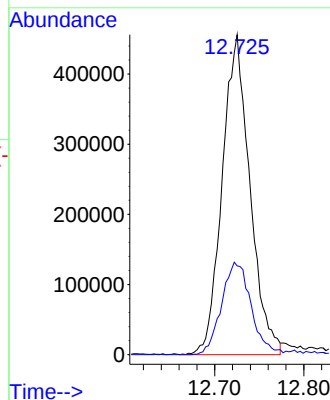
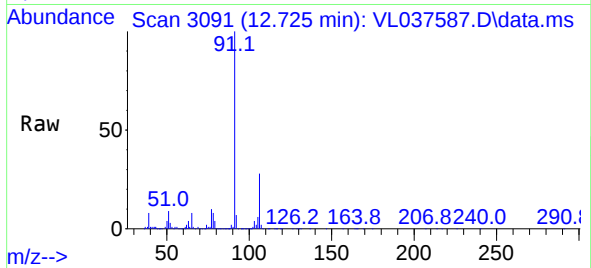
#58
Ethyl Benzene
Concen: 1.651 ppbv
RT: 12.725 min Scan# 3091
Delta R.T. 0.035 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 91 Resp: 985723
Ion Ratio Lower Upper
91 100
106 27.7 25.7 38.5

Instrument :
MSVOA_L
ClientSampled :
SV-2

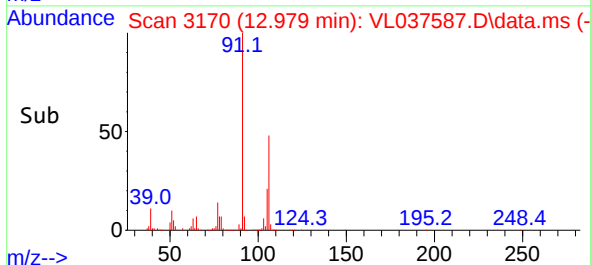
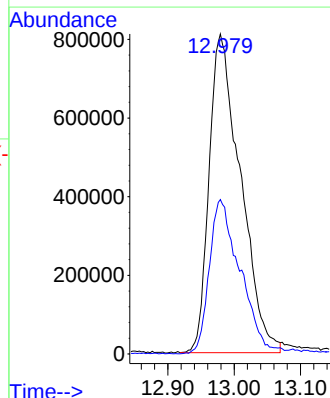
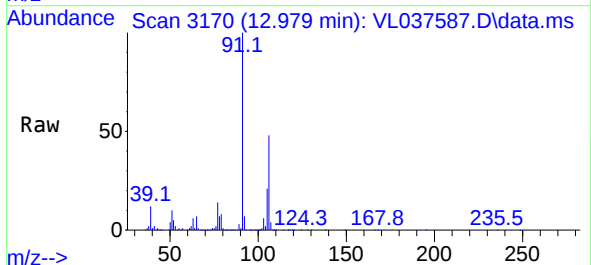
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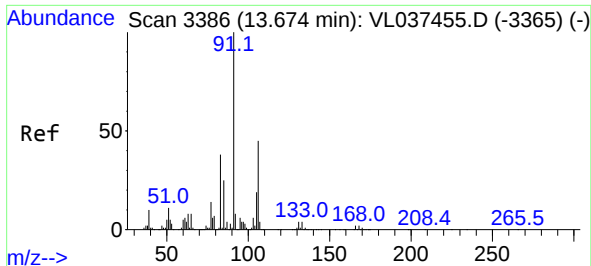
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#59
m/p-Xylene
Concen: 5.142 ppbv
RT: 12.979 min Scan# 3170
Delta R.T. 0.006 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 91 Resp: 2661268
Ion Ratio Lower Upper
91 100
106 48.8 36.9 55.3





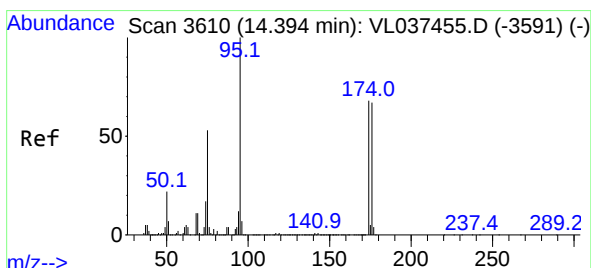
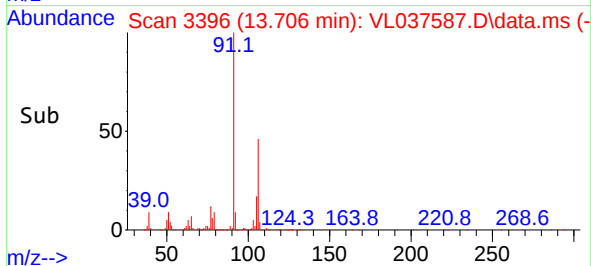
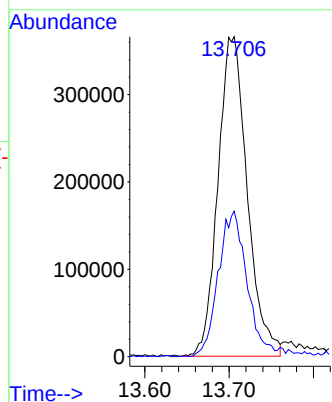
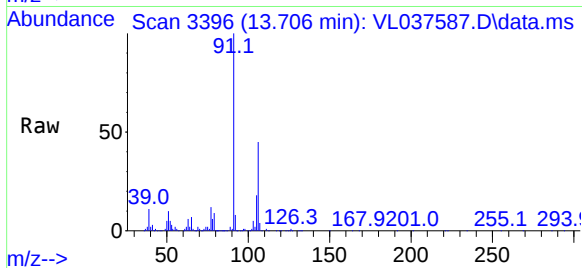
#60
o-Xylene
Concen: 1.828 ppbv
RT: 13.706 min Scan# 3396
Delta R.T. 0.032 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 91 Resp: 882934
Ion Ratio Lower Upper
91 100
106 46.1 23.7 71.1

Instrument :
MSVOA_L
ClientSampled :
SV-2

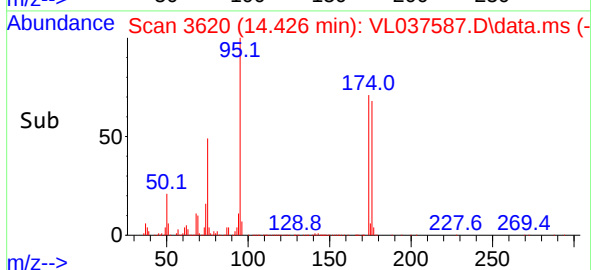
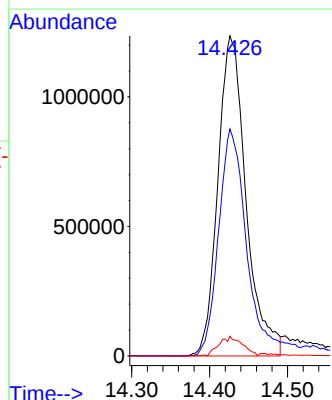
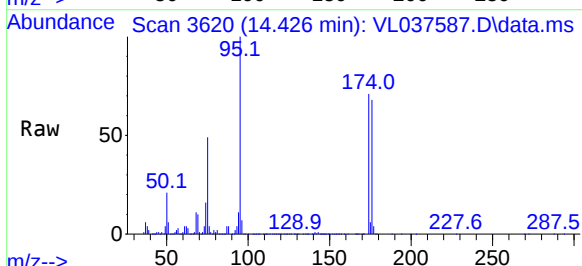
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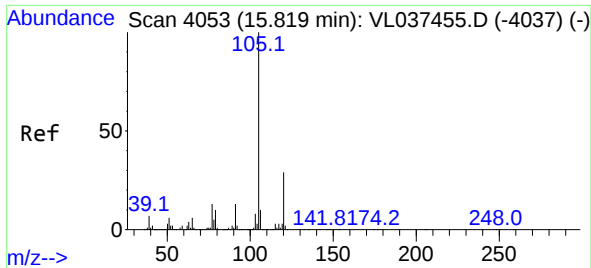
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.162 ppbv
RT: 14.426 min Scan# 3620
Delta R.T. 0.032 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion: 95 Resp: 3105739
Ion Ratio Lower Upper
95 100
174 76.3 59.6 89.4
175 5.9 4.6 7.0





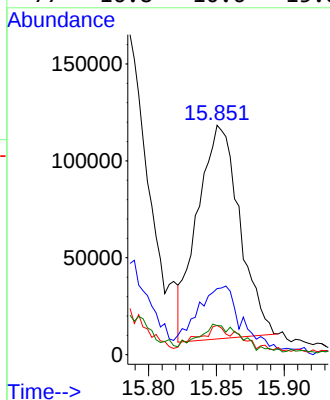
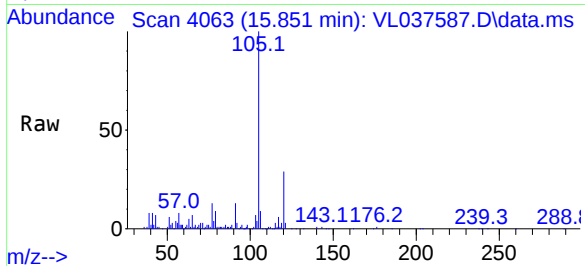
#72
4-Ethyltoluene
Concen: 0.416 ppbv
RT: 15.851 min Scan# 4063
Delta R.T. 0.032 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion:	105	Resp:	238875
Ion Ratio	Lower	Upper	
105	100		
120	38.0	24.7	37.1#
91	17.9	9.8	14.8#
77	16.8	10.6	15.8#

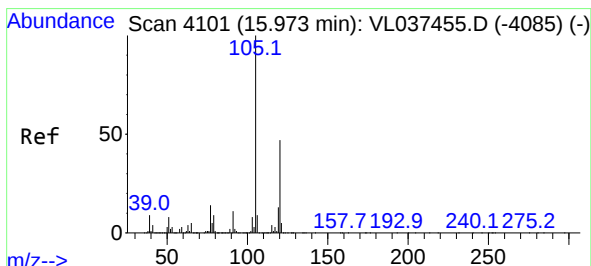
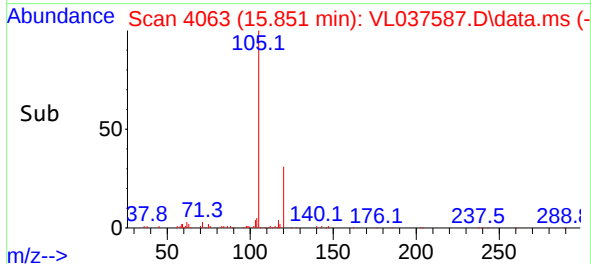
Instrument :
MSVOA_L
ClientSampled :
SV-2

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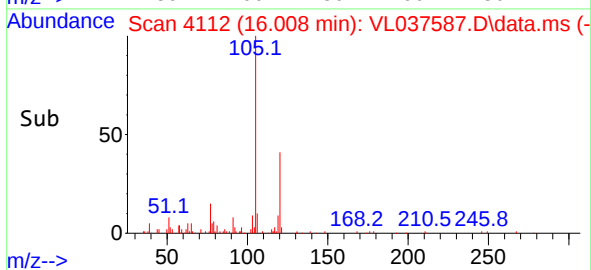
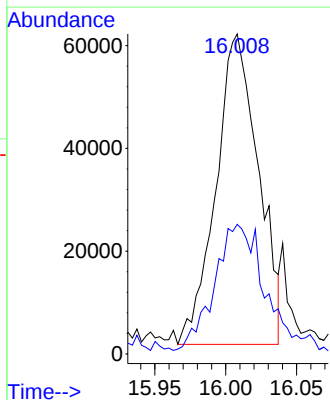
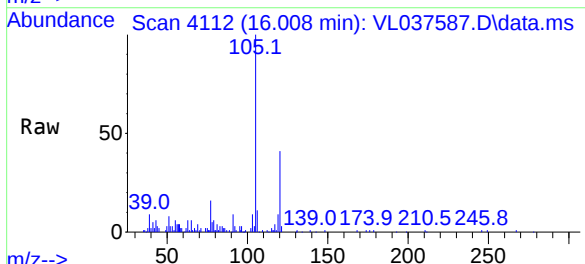


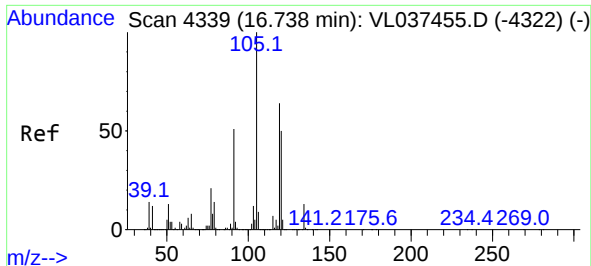
9/10/2021 10:53:36 AM



#73
1,3,5-Trimethylbenzene
Concen: 0.236 ppbv
RT: 16.008 min Scan# 4112
Delta R.T. 0.035 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion:	105	Resp:	125982
Ion Ratio	Lower	Upper	
105	100		
120	40.1	37.6	56.4





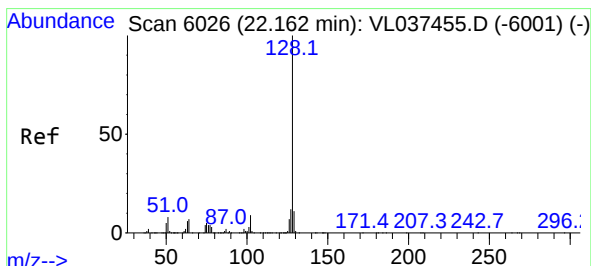
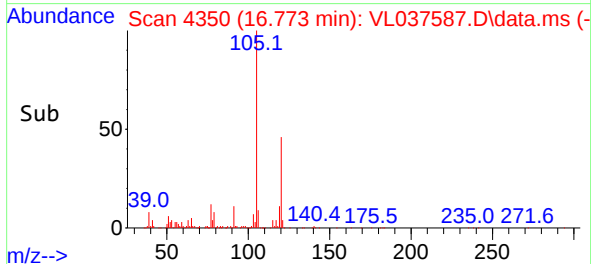
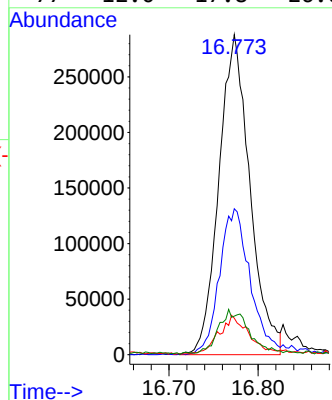
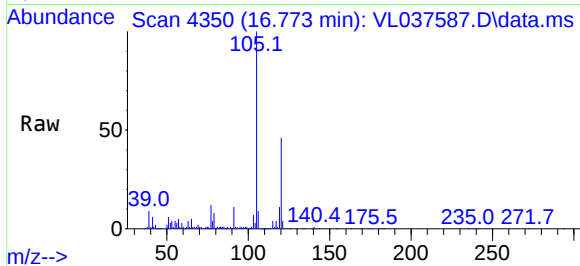
#74
1,2,4-Trimethylbenzene
Concen: 1.225 ppbv
RT: 16.773 min Scan# 4350
Delta R.T. 0.035 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion:	105	Resp:	695965
Ion Ratio	Lower	Upper	
105	100		
120	45.5	40.4	60.6
91	11.1	44.6	67.0#
77	12.0	17.8	26.6#

Instrument :
MSVOA_L
ClientSampled :
SV-2

Manual Integrations
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9/10/2021 10:53:36 AM



#79
Naphthalene
Concen: 0.220 ppbv m
RT: 22.214 min Scan# 6042
Delta R.T. 0.051 min
Lab File: VL037587.D
Acq: 9 Sep 2021 1:17

Tgt Ion:	128	Resp:	83598
Ion Ratio	Lower	Upper	
128	100		
127	15.2	9.4	14.2#
129	10.9	8.8	13.2

