

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037588.D
 Acq On : 9 Sep 2021 1:58
 Operator : SY/AP
 Sample : M3663-06 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

Manual Integrations
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 9/10/2021 10:53:37 AM

Quant Time: Sep 09 09:16:02 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	5.681	49	1652969	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.185	114	4866956	10.000	ppbv	0.03
55) Chlorobenzene-d5	12.098	117	4313880	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.430	95	3052928	9.961	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.054	85	31293	0.118	ppbv	91
4) Chloromethane	3.144	50	25491m	0.225	ppbv	
9) Propene	3.031	41	463092	4.089	ppbv #	68
10) Heptane	8.137	43	130482	0.501	ppbv	100
11) Trichlorofluoromethane	3.964	101	31559	0.127	ppbv	99
13) Ethanol	3.613	45	2375250	215.534	ppbv	99
15) Acetone	3.854	43	6612078	39.305	ppbv	97
17) tert-Butyl alcohol	4.298	59	80567m	0.524	ppbv	
19) Isopropyl Alcohol	3.970	45	6410341	66.514	ppbv	99
20) Methylene Chloride	4.356	84	68795	0.817	ppbv	91
26) Hexane	5.700	57	418689	2.005	ppbv #	56
29) Chloroform	5.764	83	345827	1.169	ppbv	99
30) Cyclohexane	7.137	84	23585m	0.136	ppbv	
31) cis-1,2-Dichloroethene	5.562	61	290094	1.535	ppbv	99
34) 2-Butanone	5.253	43	569324	2.865	ppbv	95
35) Carbon Tetrachloride	7.031	117	18058m	0.063	ppbv	
36) Benzene	6.902	78	136108	0.333	ppbv	96
38) Trichloroethene	7.848	130	260436	1.551	ppbv	94
44) 2,2,4-Trimethylpentane	7.886	57	129988m	0.189	ppbv	
52) Tetrachloroethene	11.237	164	3408524	20.330	ppbv	99
53) Toluene	9.816	91	1747619	3.741	ppbv	97
58) Ethyl Benzene	12.722	91	591273	0.988	ppbv	98
59) m/p-Xylene	12.983	91	1902940m	3.667	ppbv	
60) o-Xylene	13.706	91	622432	1.285	ppbv	99
69) p-Isopropyltoluene	17.661	119	404747	0.571	ppbv	99
72) 4-Ethyltoluene	15.851	105	355946	0.618	ppbv	98
73) 1,3,5-Trimethylbenzene	16.011	105	190582m	0.355	ppbv	
74) 1,2,4-Trimethylbenzene	16.770	105	778416	1.366	ppbv #	66
79) Naphthalene	22.211	128	127171m	0.333	ppbv	

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

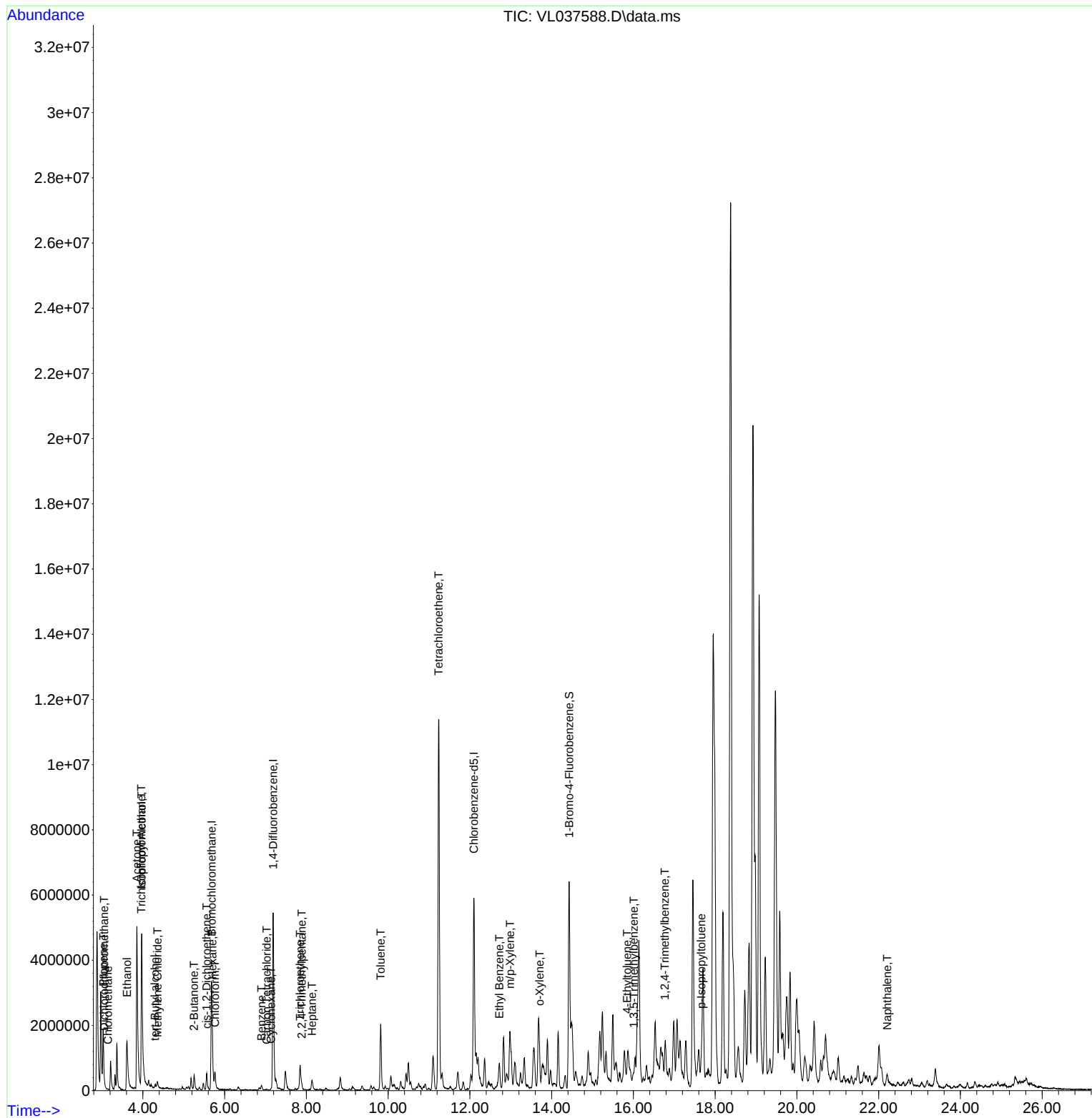
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
Data File : VL037588.D
Acq On : 9 Sep 2021 1:58
Operator : SY/AP
Sample : M3663-06 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

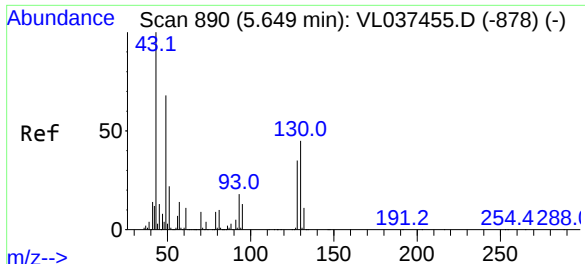
Instrument :
MSVOA_L
ClientSampleId :
SV-3

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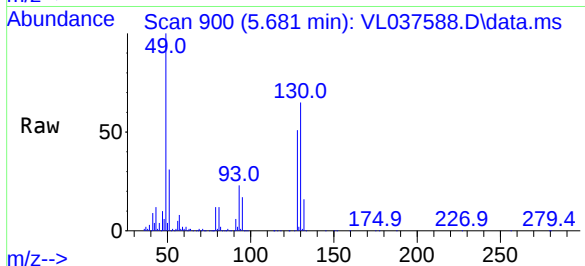
Quant Time: Sep 09 09:16:02 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.681 min Scan# 900
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

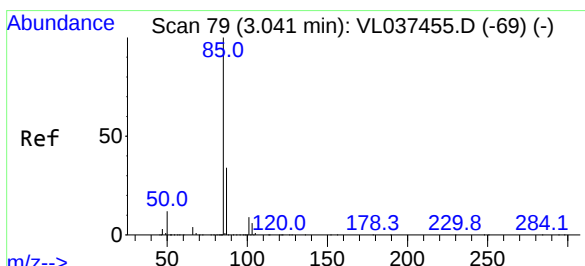
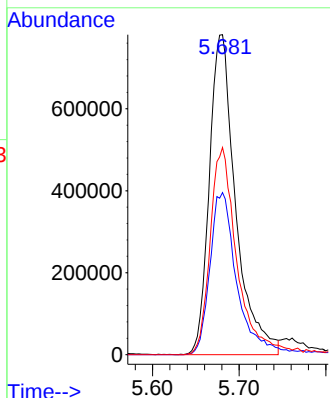
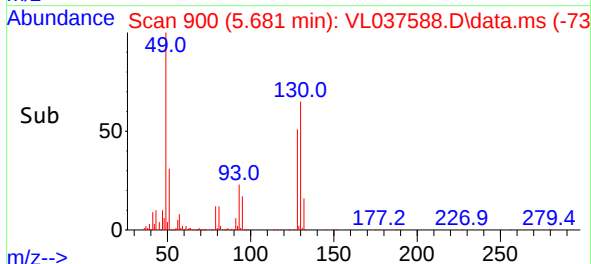
Instrument :
MSVOA_L
ClientSampled :
SV-3



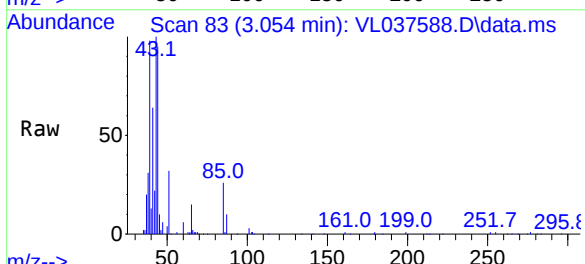
Tgt Ion: 49 Resp: 1652969
Ion Ratio Lower Upper
49 100
128 53.3 27.5 82.4
130 67.4 34.0 101.8

Manual Integrations
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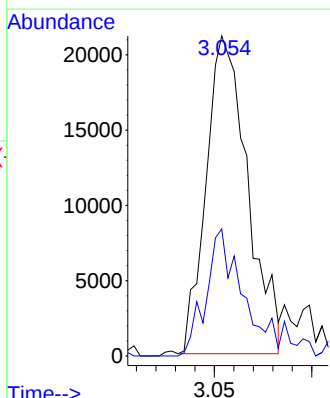
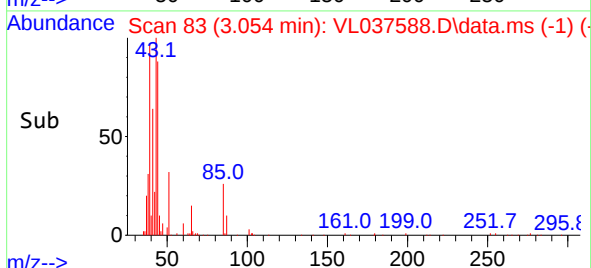
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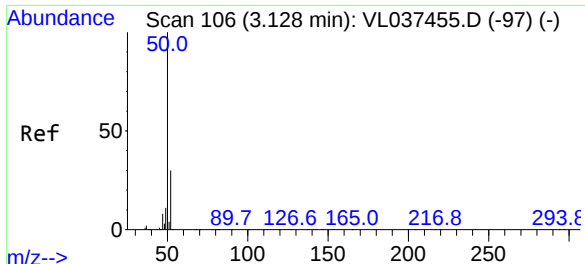


#2
Dichlorodifluoromethane
Concen: 0.118 ppbv
RT: 3.054 min Scan# 83
Delta R.T. 0.013 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



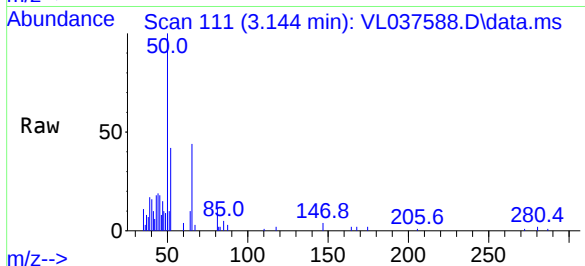
Tgt Ion: 85 Resp: 31293
Ion Ratio Lower Upper
85 100
87 40.0 27.6 41.4





#4
Chloromethane
Concen: 0.225 ppbv m
RT: 3.144 min Scan# 111
Delta R.T. 0.016 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

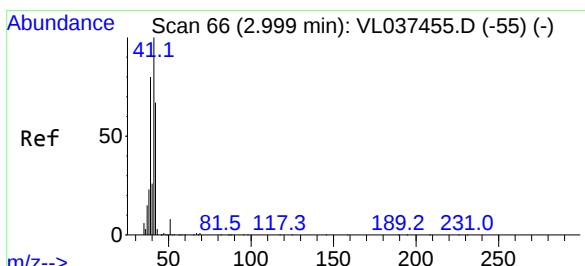
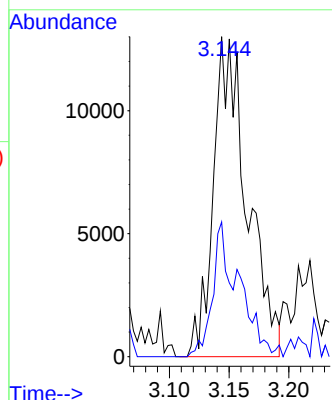
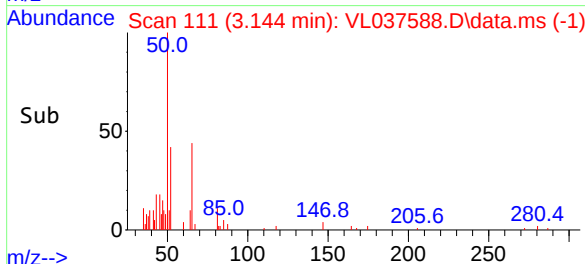
Instrument :
MSVOA_L
ClientSampled :
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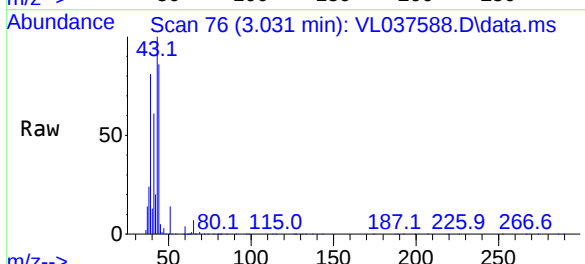
Tgt Ion: 50 Resp: 25491
Ion Ratio Lower Upper
50 100
52 42.1 24.0 36.0#

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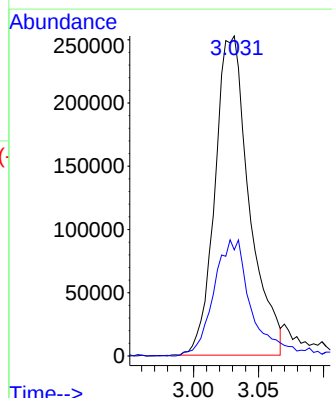
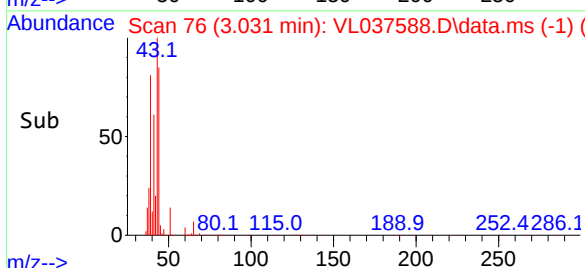
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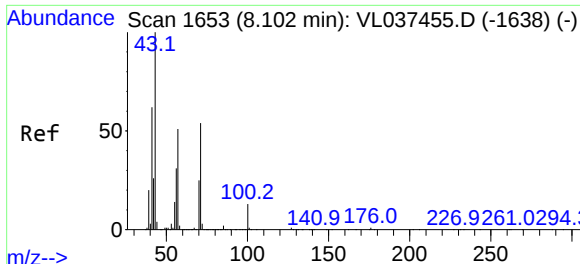


#9
Propene
Concen: 4.089 ppbv
RT: 3.031 min Scan# 76
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



Tgt Ion: 41 Resp: 463092
Ion Ratio Lower Upper
41 100
42 41.2 53.7 80.5#





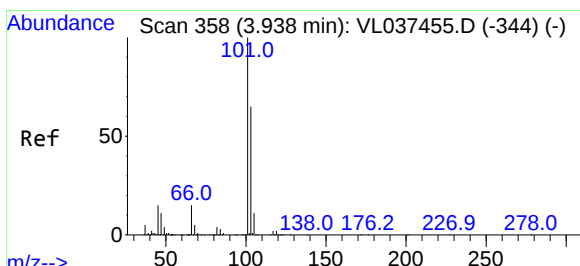
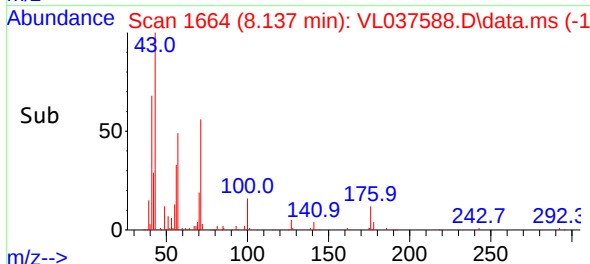
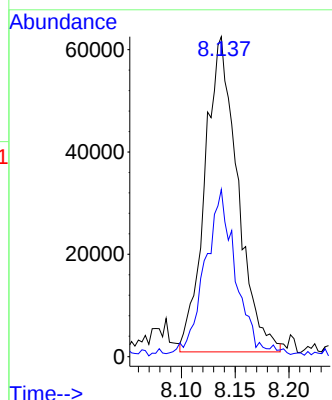
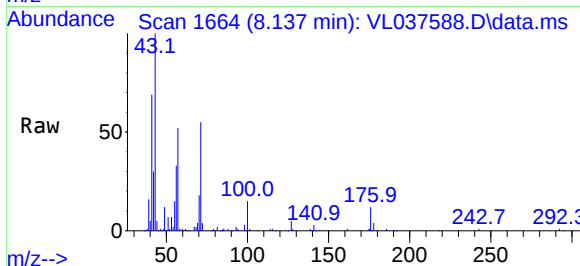
#10
Heptane
Concen: 0.501 ppbv
RT: 8.137 min Scan# 1664
Delta R.T. 0.035 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Instrument :
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Tgt Ion: 43 Resp: 130482
Ion Ratio Lower Upper
43 100
57 51.3 41.0 61.6

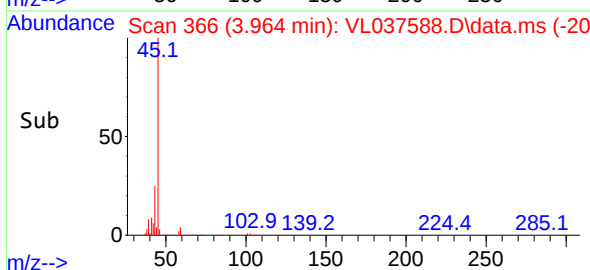
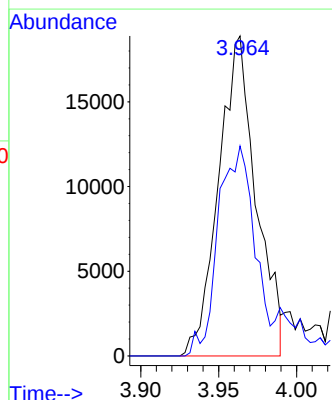
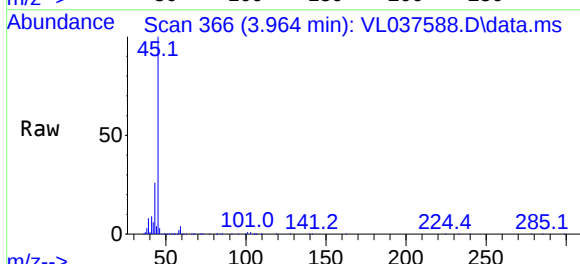
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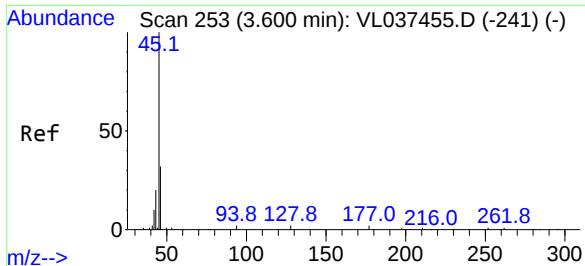
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#11
Trichlorofluoromethane
Concen: 0.127 ppbv
RT: 3.964 min Scan# 366
Delta R.T. 0.026 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion: 101 Resp: 31559
Ion Ratio Lower Upper
101 100
103 65.6 51.8 77.6





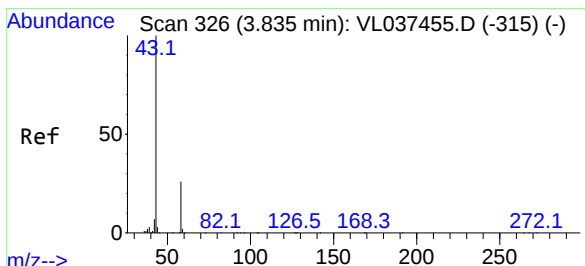
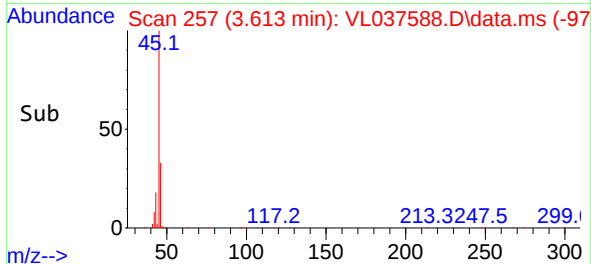
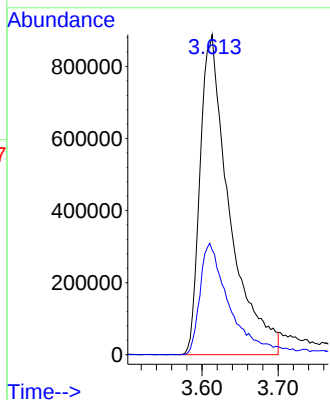
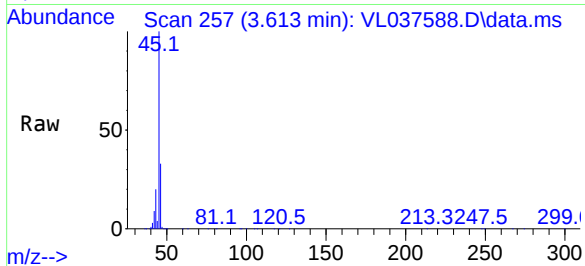
#13
Ethanol
Concen: 215.534 ppbv
RT: 3.613 min Scan# 257
Delta R.T. 0.013 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion: 45 Resp: 2375250
Ion Ratio Lower Upper
45 100
46 35.7 14.1 56.5

Instrument :
MSVOA_L
ClientSampled :
SV-3

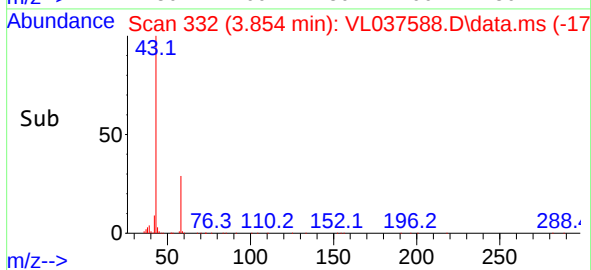
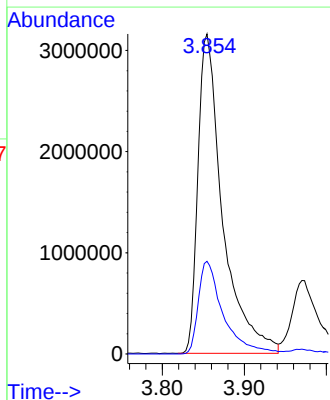
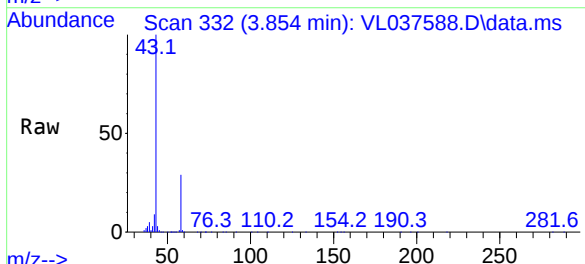
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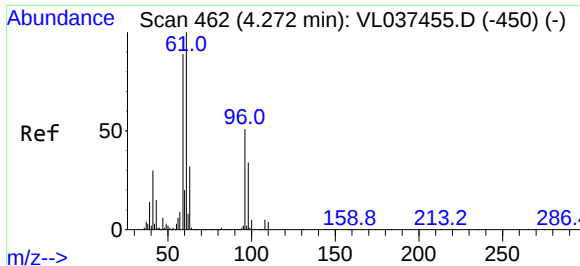
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#15
Acetone
Concen: 39.305 ppbv
RT: 3.854 min Scan# 332
Delta R.T. 0.019 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

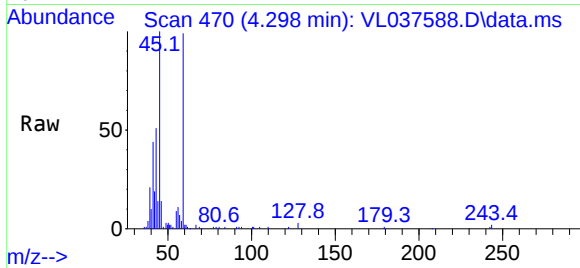
Tgt Ion: 43 Resp: 6612078
Ion Ratio Lower Upper
43 100
58 29.2 24.8 37.2





#17
tert-Butyl alcohol
Concen: 0.524 ppbv m
RT: 4.298 min Scan# 470
Delta R.T. 0.026 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

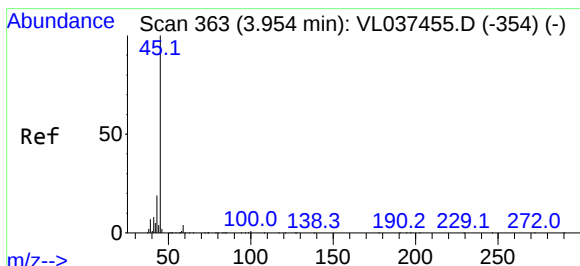
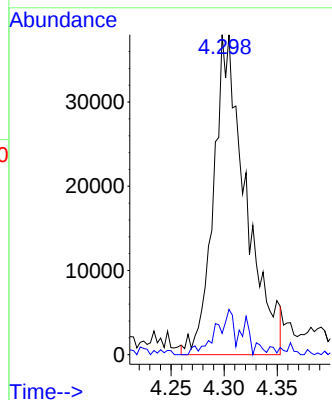
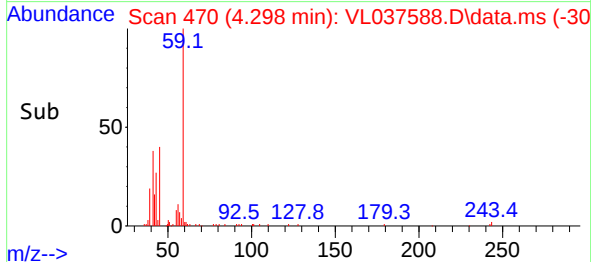
Instrument :
MSVOA_L
ClientSampled :
SV-3



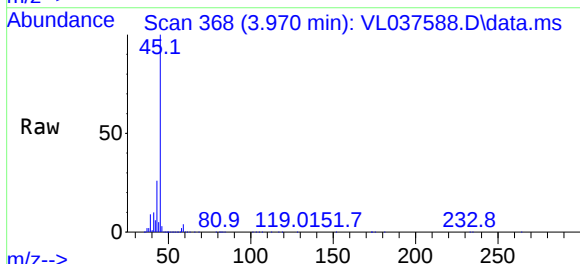
Tgt Ion: 59 Resp: 80567
Ion Ratio Lower Upper
59 100
57 29.7 8.3 12.5#

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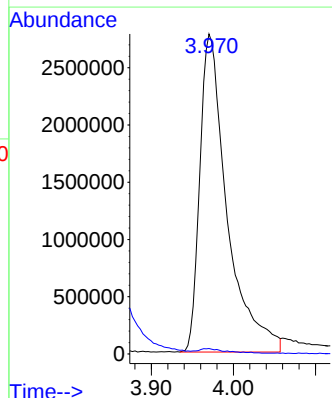
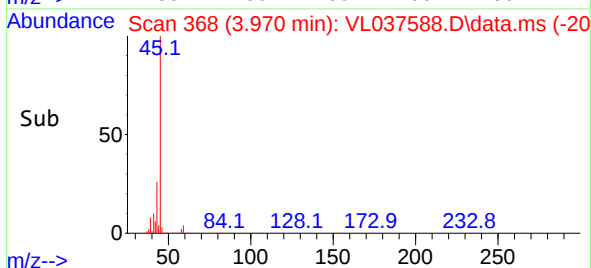
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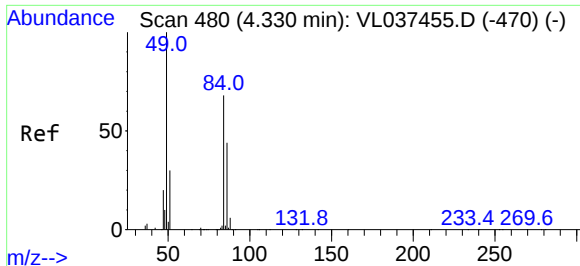


#19
Isopropyl Alcohol
Concen: 66.514 ppbv
RT: 3.970 min Scan# 368
Delta R.T. 0.016 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



Tgt Ion: 45 Resp: 6410341
Ion Ratio Lower Upper
45 100
58 2.1 1.4 2.2





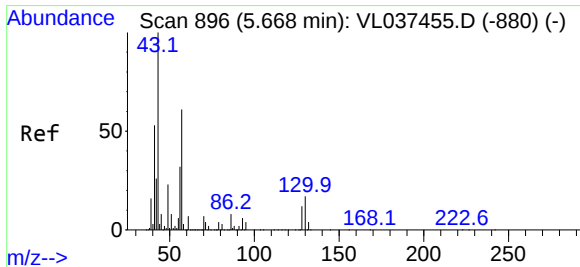
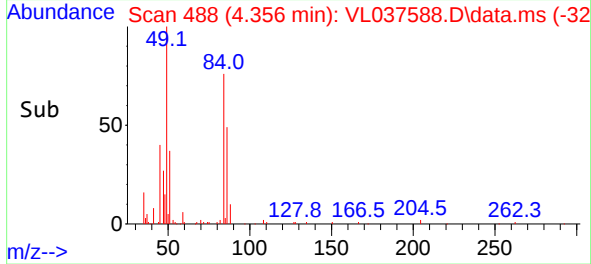
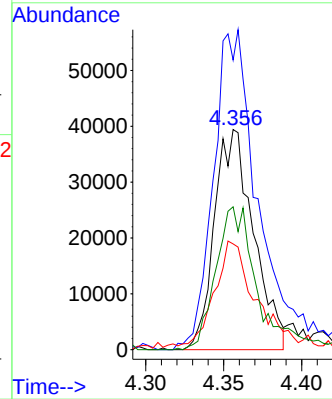
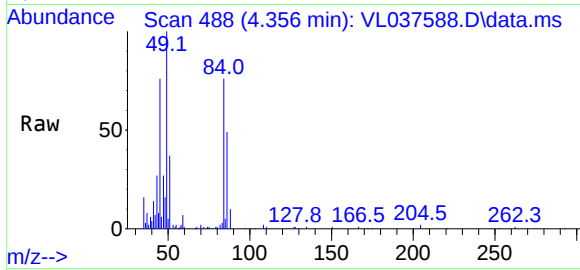
#20
Methylene Chloride
Concen: 0.817 ppbv
RT: 4.356 min Scan# 488
Delta R.T. 0.026 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion:	84	Resp:	68795
Ion	Ratio	Lower	Upper
84	100		
49	129.0	118.2	177.2
51	45.4	36.6	55.0
86	64.9	51.8	77.6

Instrument :
MSVOA_L
ClientSampled :
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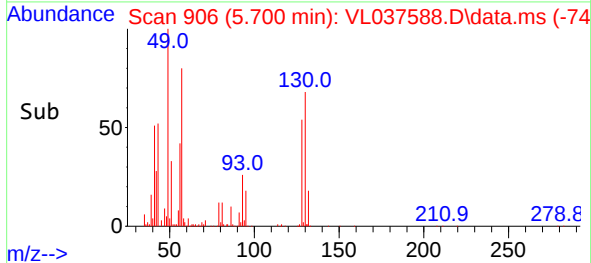
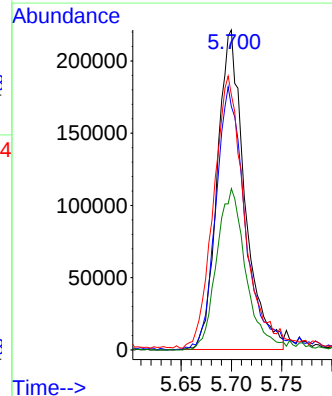
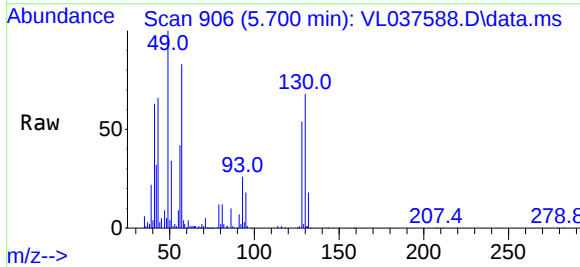
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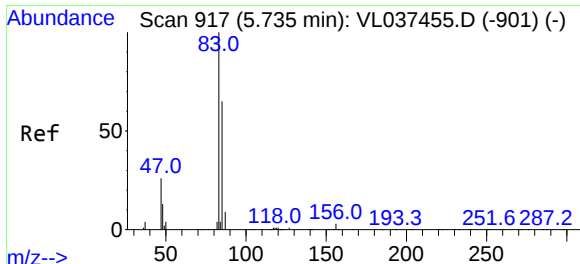
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#26
Hexane
Concen: 2.005 ppbv
RT: 5.700 min Scan# 906
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

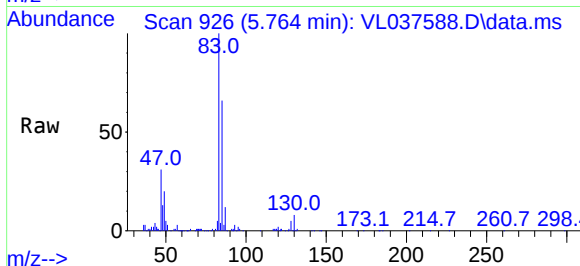
Tgt Ion:	57	Resp:	418689
Ion	Ratio	Lower	Upper
57	100		
41	90.6	72.3	108.5
43	99.3	172.3	258.5#
56	55.7	42.8	64.2





#29
Chloroform
Concen: 1.169 ppbv
RT: 5.764 min Scan# 926
Delta R.T. 0.029 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

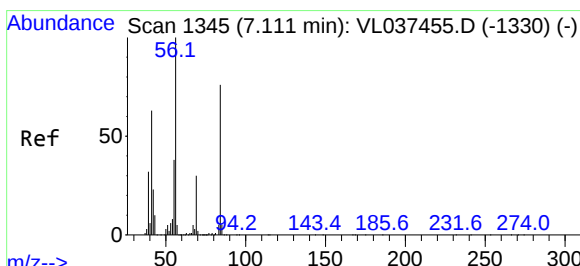
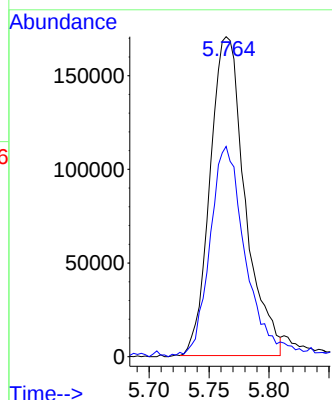
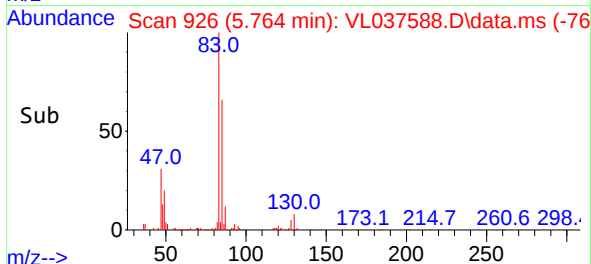
Instrument :
MSVOA_L
ClientSampled :
SV-3



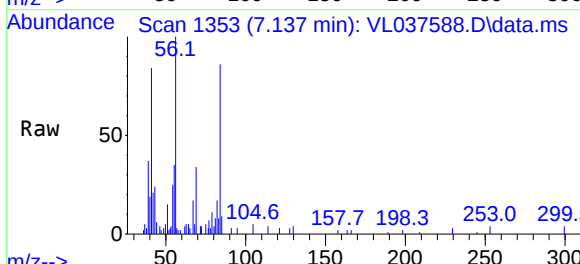
Tgt Ion: 83 Resp: 345827
Ion Ratio Lower Upper
83 100
85 64.6 52.3 78.5

Manual Integrations
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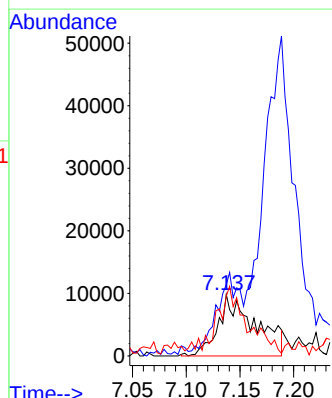
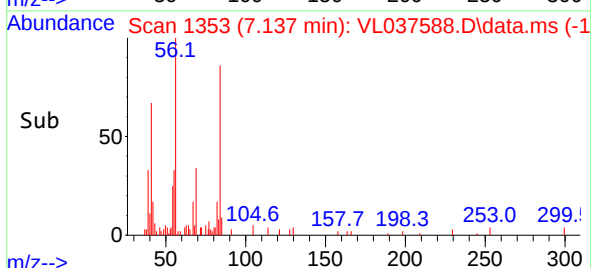
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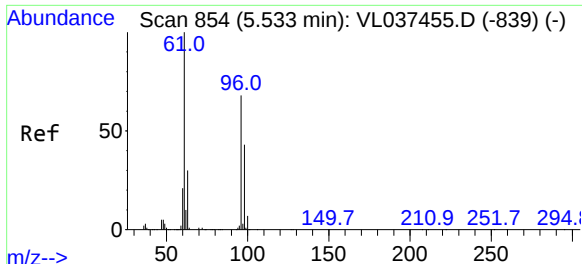


#30
Cyclohexane
Concen: 0.136 ppbv m
RT: 7.137 min Scan# 1353
Delta R.T. 0.026 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



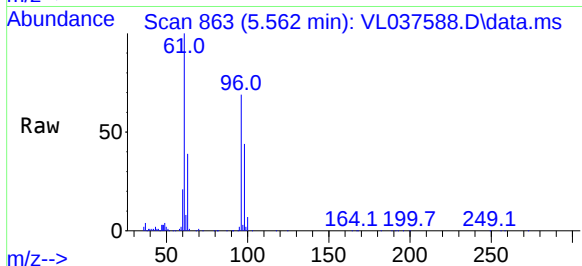
Tgt Ion: 84 Resp: 23585
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 0.0 67.0 100.6#





#31
cis-1,2-Dichloroethene
Concen: 1.535 ppbv
RT: 5.562 min Scan# 863
Delta R.T. 0.029 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

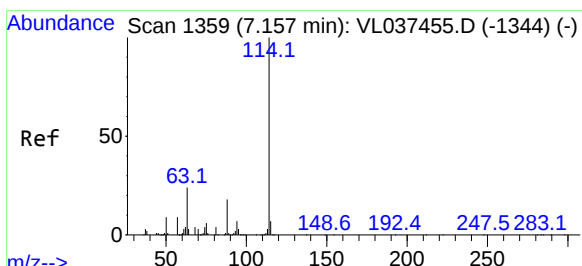
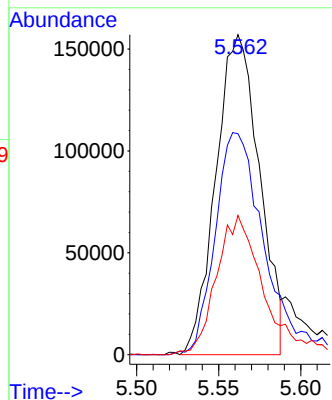
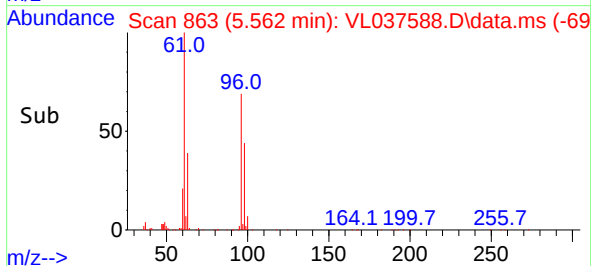
Instrument :
MSVOA_L
ClientSampled :
SV-3



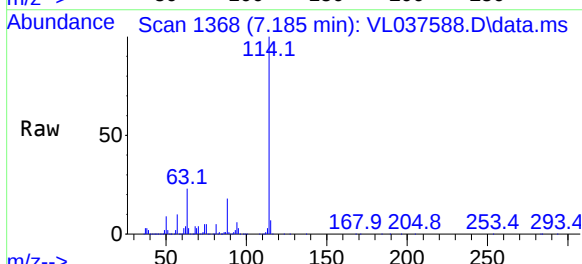
Tgt Ion: 61 Resp: 290094
Ion Ratio Lower Upper
61 100
96 67.9 54.8 82.2
98 42.3 34.2 51.2

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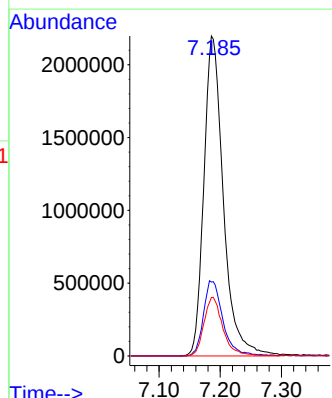
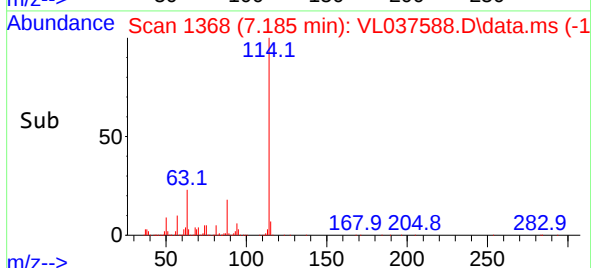
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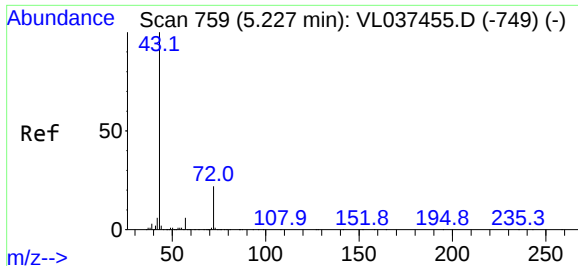


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.185 min Scan# 1368
Delta R.T. 0.029 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



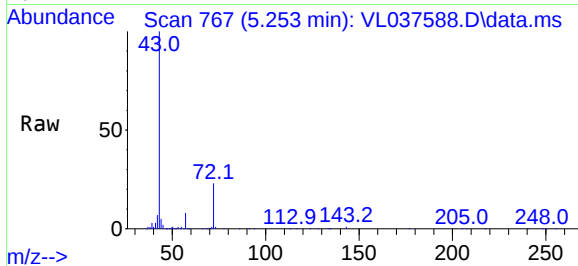
Tgt Ion: 114 Resp: 4866956
Ion Ratio Lower Upper
114 100
63 23.6 19.3 28.9
88 18.0 14.2 21.4





#34
2-Butanone
Concen: 2.865 ppbv
RT: 5.253 min Scan# 767
Delta R.T. 0.026 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

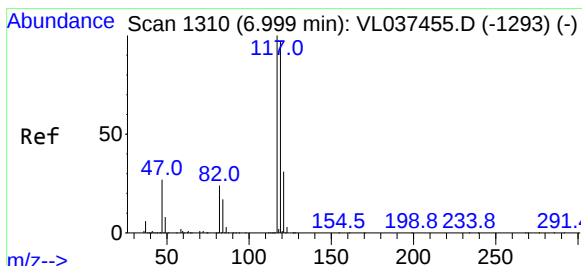
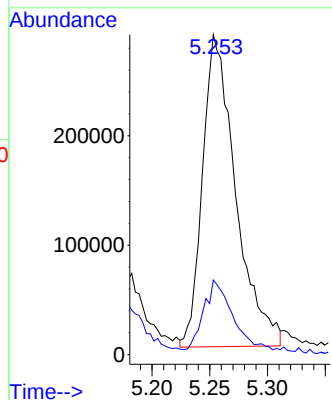
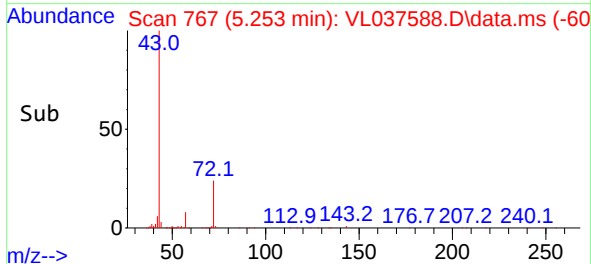
Instrument :
MSVOA_L
ClientSampled :
SV-3



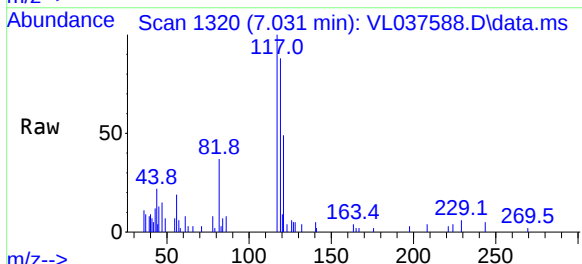
Tgt Ion: 43 Resp: 569324
Ion Ratio Lower Upper
43 100
72 24.1 17.4 26.0

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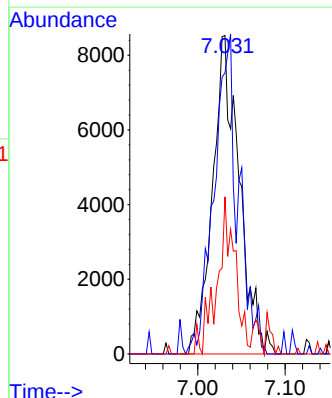
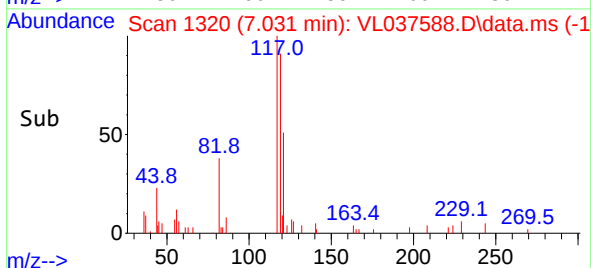
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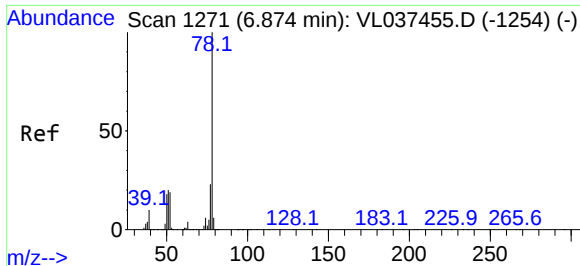


#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.031 min Scan# 1320
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



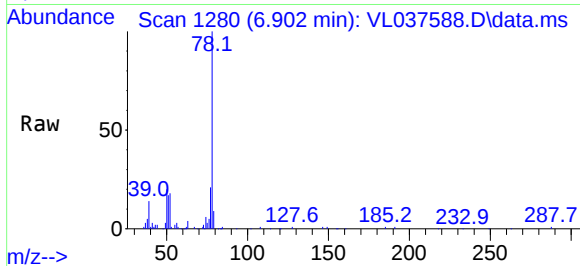
Tgt Ion: 117 Resp: 18058
Ion Ratio Lower Upper
117 100
119 88.3 77.3 115.9
121 49.4 25.2 37.8#





#36
Benzene
Concen: 0.333 ppbv
RT: 6.902 min Scan# 1280
Delta R.T. 0.029 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Instrument :
MSVOA_L
ClientSampled :
SV-3

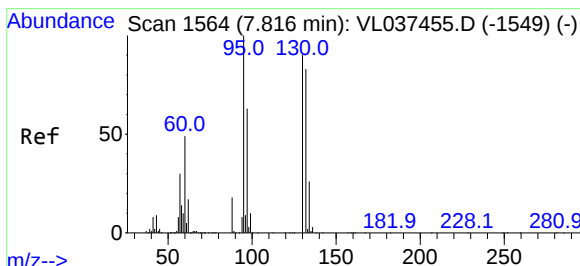
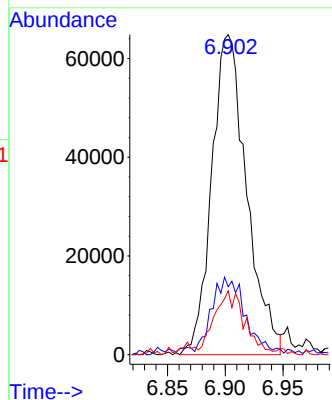
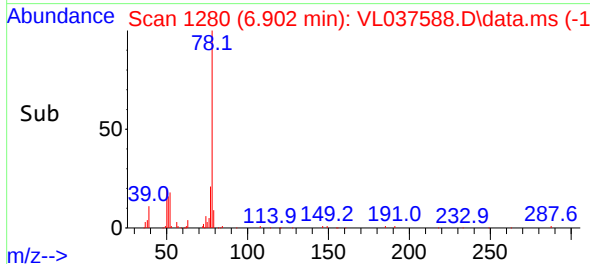


Tgt Ion: 78 Resp: 136108

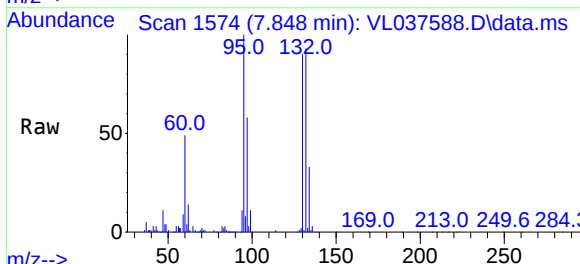
Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.2	27.4
50	18.0	14.6	21.8

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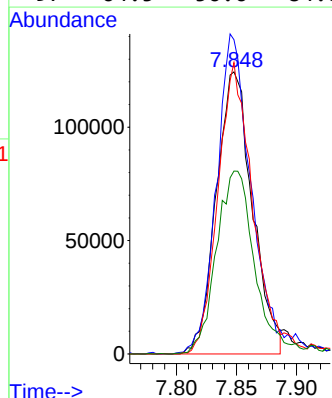
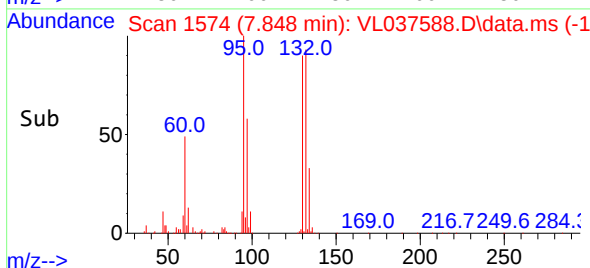


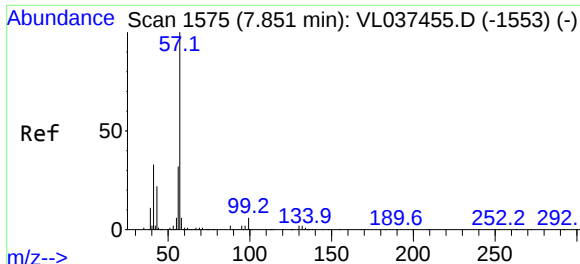
#38
Trichloroethene
Concen: 1.551 ppbv
RT: 7.848 min Scan# 1574
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



Tgt Ion: 130 Resp: 260436

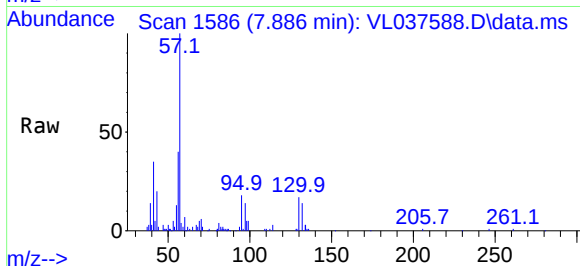
Ion	Ratio	Lower	Upper
130	100		
95	110.9	89.2	133.8
132	103.3	74.0	111.0
97	64.5	56.6	84.8





#44
2,2,4-Trimethylpentane
Concen: 0.189 ppbv m
RT: 7.886 min Scan# 1586
Delta R.T. 0.035 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

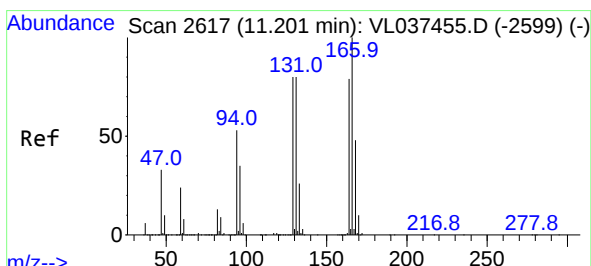
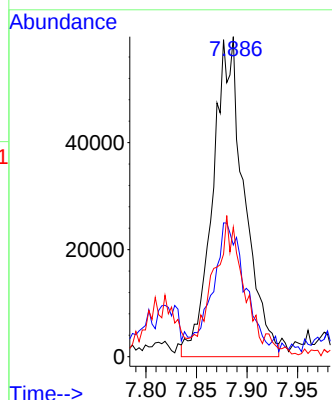
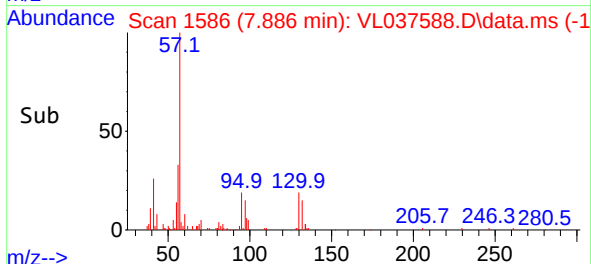
Instrument :
MSVOA_L
ClientSampled :
SV-3



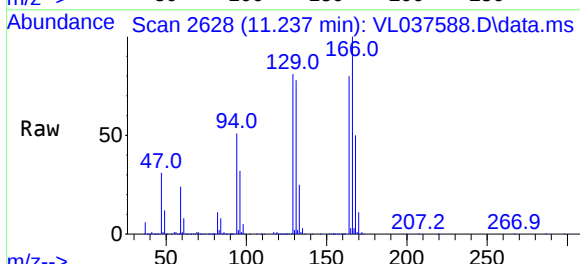
Tgt Ion: 57 Resp: 129988
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.4#
56 0.0 25.4 38.2#

Manual Integrations
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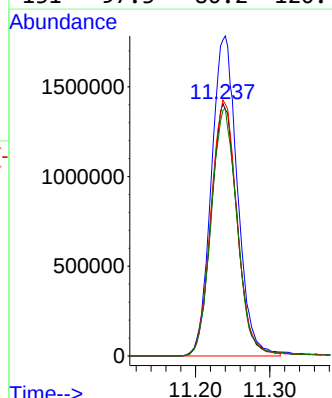
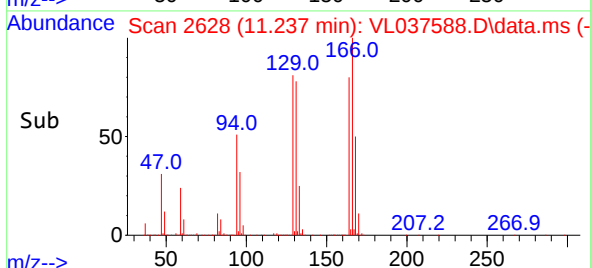
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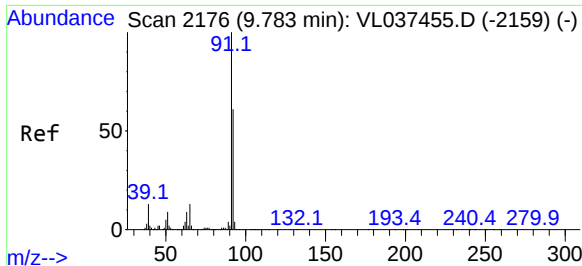


#52
Tetrachloroethene
Concen: 20.330 ppbv
RT: 11.237 min Scan# 2628
Delta R.T. 0.035 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58



Tgt Ion: 164 Resp: 3408524
Ion Ratio Lower Upper
164 100
166 125.1 100.7 151.1
129 101.3 80.9 121.3
131 97.3 80.2 120.4





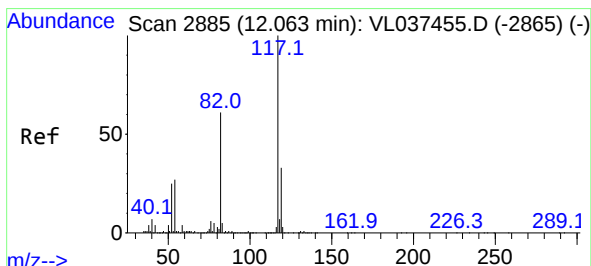
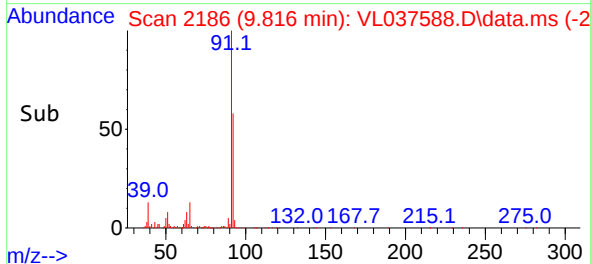
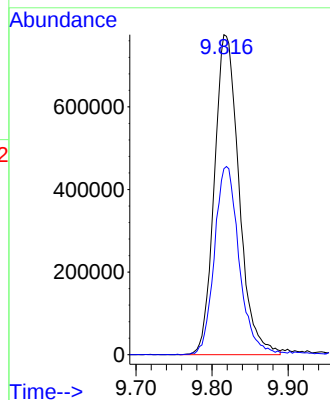
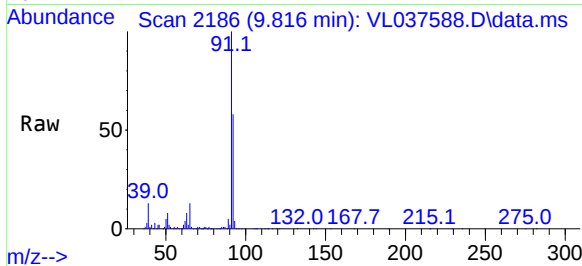
#53
Toluene
Concen: 3.741 ppbv
RT: 9.816 min Scan# 2186
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Instrument :
MSVOA_L
ClientSampled :
SV-3

Tgt Ion: 91 Resp: 1747619
Ion Ratio Lower Upper
91 100
92 59.0 48.8 73.2

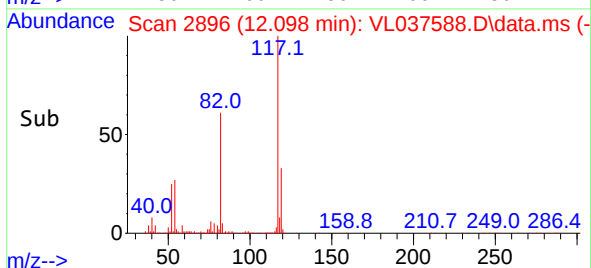
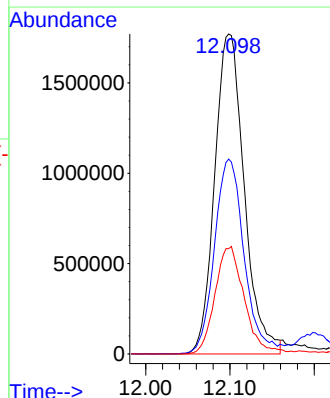
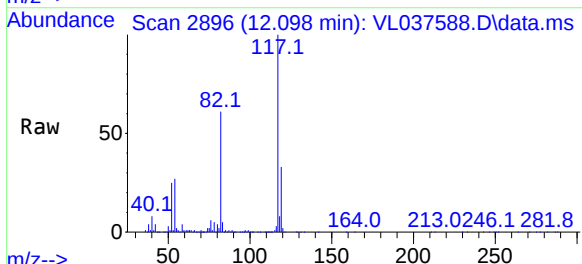
Manual Integrations
APPROVED

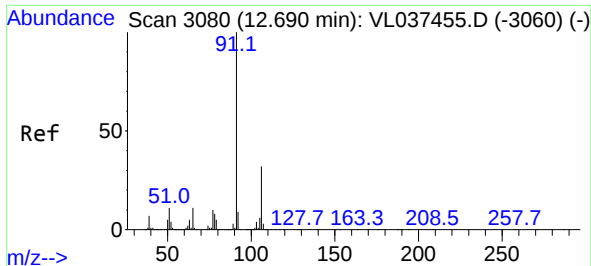
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.098 min Scan# 2896
Delta R.T. 0.035 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion: 117 Resp: 4313880
Ion Ratio Lower Upper
117 100
82 61.9 52.9 79.3
119 35.0 24.8 37.2





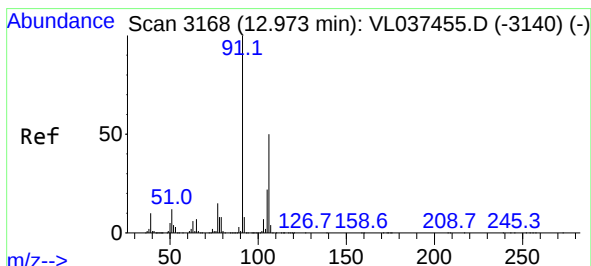
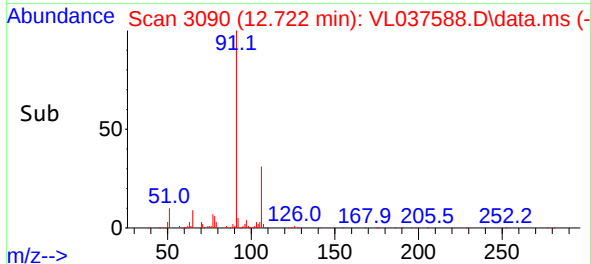
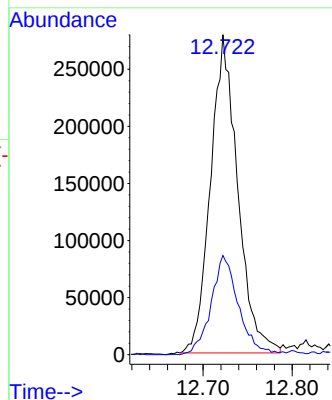
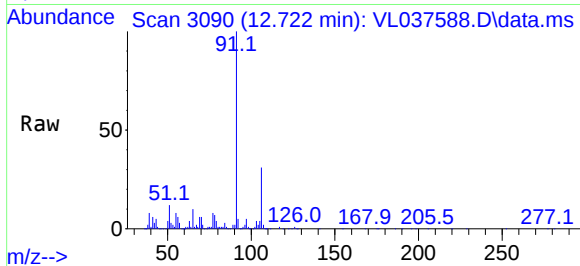
#58
Ethyl Benzene
Concen: 0.988 ppbv
RT: 12.722 min Scan# 3090
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Instrument :
MSVOA_L
ClientSampled :
SV-3

Tgt Ion: 91 Resp: 591273
Ion Ratio Lower Upper
91 100
106 31.2 25.7 38.5

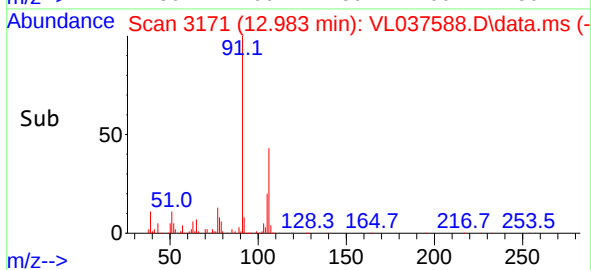
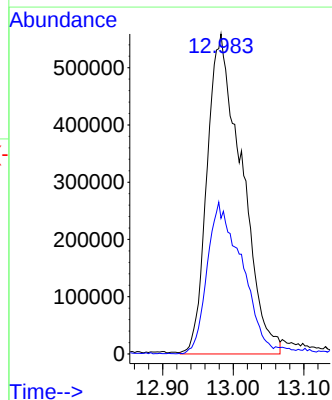
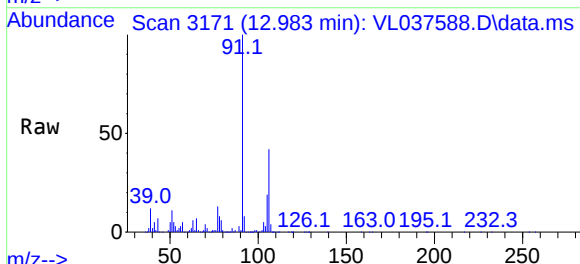
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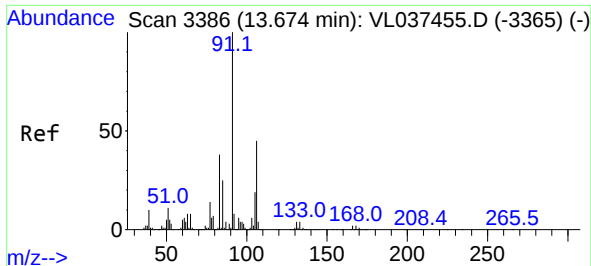
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#59
m/p-Xylene
Concen: 3.667 ppbv m
RT: 12.983 min Scan# 3171
Delta R.T. 0.010 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion: 91 Resp: 1902940
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#





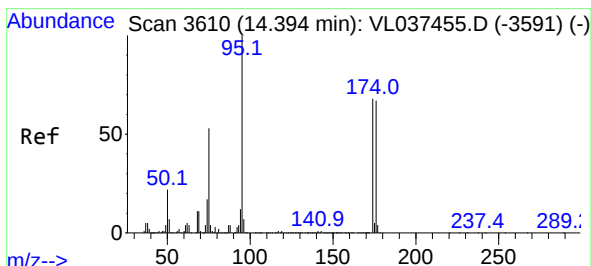
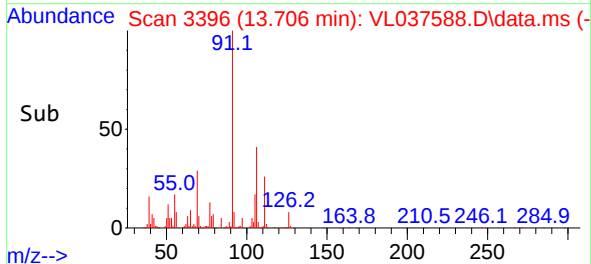
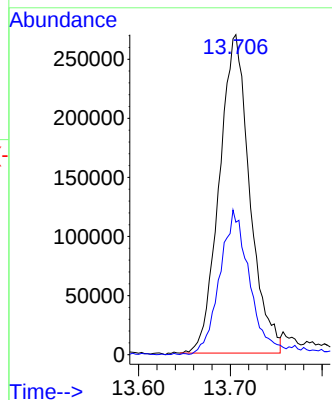
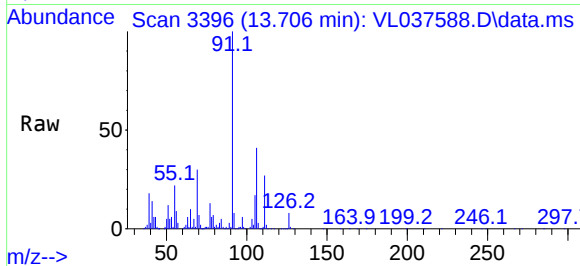
#60
o-Xylene
Concen: 1.285 ppbv
RT: 13.706 min Scan# 3396
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion: 91 Resp: 622432
Ion Ratio Lower Upper
91 100
106 48.0 23.7 71.1

Instrument :
MSVOA_L
ClientSampled :
SV-3

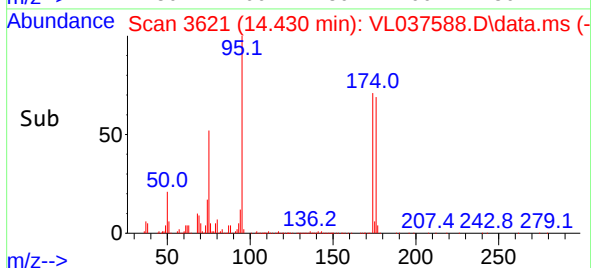
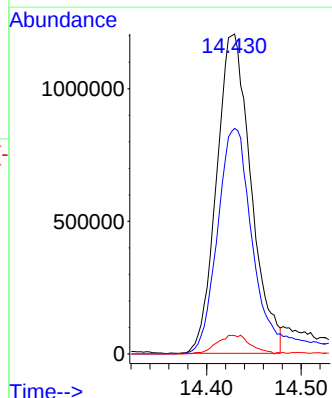
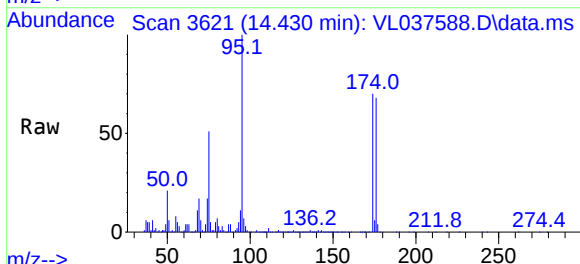
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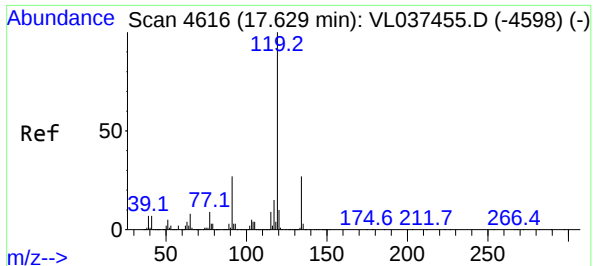
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.961 ppbv
RT: 14.430 min Scan# 3621
Delta R.T. 0.035 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion: 95 Resp: 3052928
Ion Ratio Lower Upper
95 100
174 79.2 59.6 89.4
175 5.9 4.6 7.0





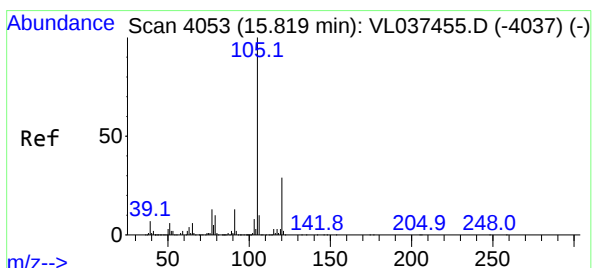
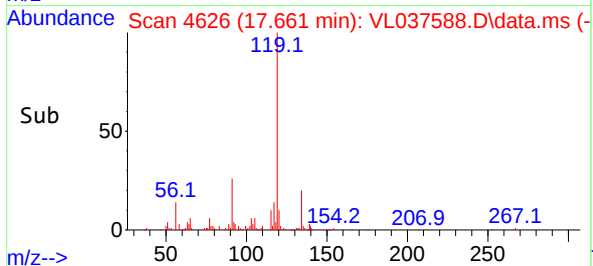
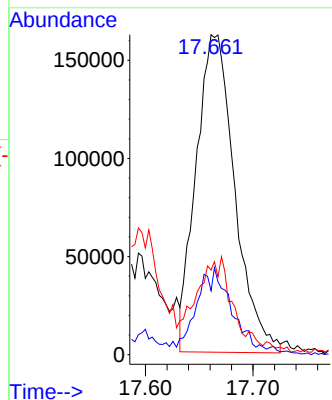
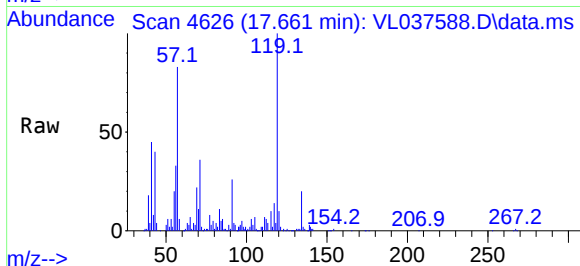
#69
p-Isopropyltoluene
Concen: 0.571 ppbv
RT: 17.661 min Scan# 4626
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion:	119	Resp:	404747
Ion	Ratio	Lower	Upper
119	100		
134	26.4	21.1	31.7
91	28.7	22.4	33.6

Instrument :
MSVOA_L
ClientSampled :
SV-3

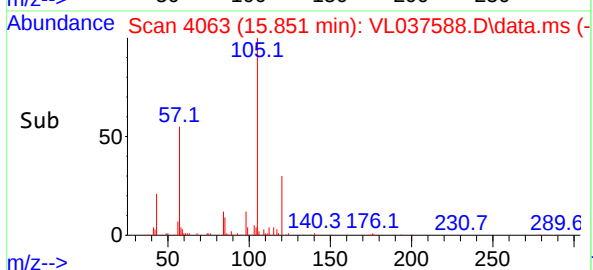
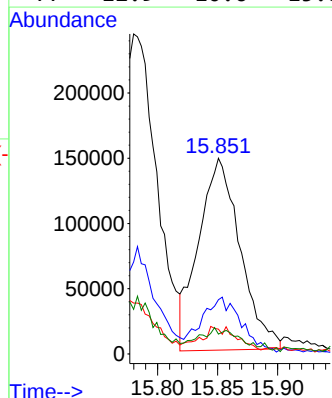
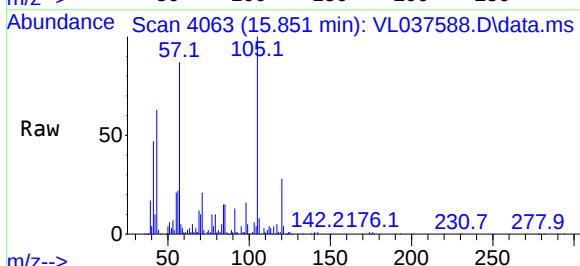
Manual Integrations
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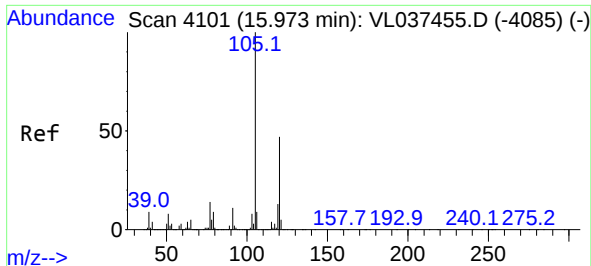
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#72
4-Ethyltoluene
Concen: 0.618 ppbv
RT: 15.851 min Scan# 4063
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion:	105	Resp:	355946
Ion	Ratio	Lower	Upper
105	100		
120	32.3	24.7	37.1
91	12.8	9.8	14.8
77	12.9	10.6	15.8





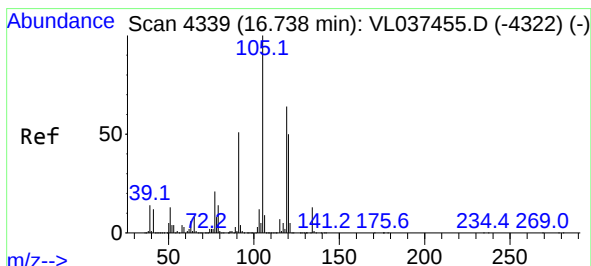
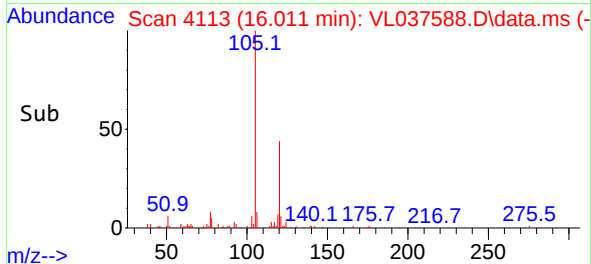
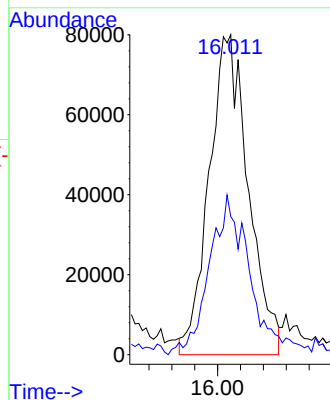
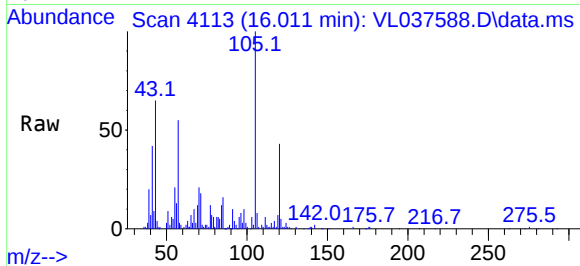
#73
1,3,5-Trimethylbenzene
Concen: 0.355 ppbv m
RT: 16.011 min Scan# 4113
Delta R.T. 0.039 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Tgt Ion:105 Resp: 190582
Ion Ratio Lower Upper
105 100
120 43.2 37.6 56.4

Instrument :
MSVOA_L
ClientSampled :
SV-3

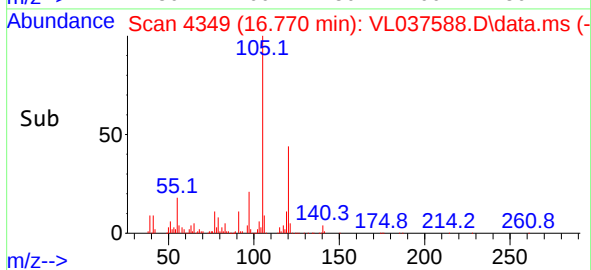
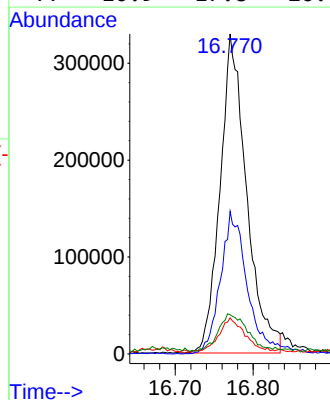
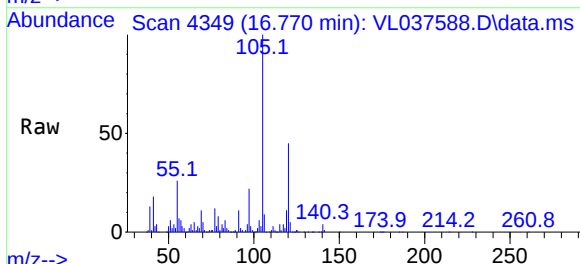
Manual Integrations
APPROVED

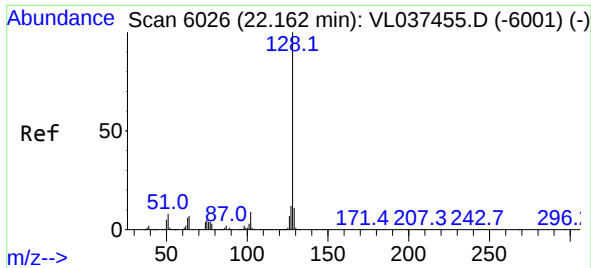
MMDadoda
9/10/2021 10:53:37 AM



#74
1,2,4-Trimethylbenzene
Concen: 1.366 ppbv
RT: 16.770 min Scan# 4349
Delta R.T. 0.032 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

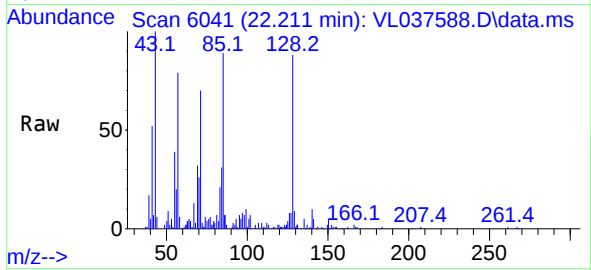
Tgt Ion:105 Resp: 778416
Ion Ratio Lower Upper
105 100
120 44.6 40.4 60.6
91 10.6 44.6 67.0#
77 10.9 17.8 26.6#





#79
Naphthalene
Concen: 0.333 ppbv m
RT: 22.211 min Scan# 6041
Delta R.T. 0.048 min
Lab File: VL037588.D
Acq: 9 Sep 2021 1:58

Instrument :
MSVOA_L
ClientSampleId :
SV-3



Tgt Ion:128 Resp: 127171
Ion Ratio Lower Upper
128 100
127 9.6 9.4 14.2
129 9.8 8.8 13.2

Manual Integrations
APPROVED

MMDadoda
9/10/2021 10:53:37 AM

