

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037584.D
 Acq On : 8 Sep 2021 23:16
 Operator : SY/AP
 Sample : M3662-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

MMDadoda
 9/10/2021 10:53:31 AM

Quant Time: Sep 09 09:14:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

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

Internal Standards								
1)	Bromochloromethane		5.674	49	1559252	10.000	ppbv	0.03
33)	1,4-Difluorobenzene		7.185	114	4673907	10.000	ppbv	0.03
55)	Chlorobenzene-d5		12.098	117	4253224	10.000	ppbv	0.04
System Monitoring Compounds								
68)	1-Bromo-4-Fluorobenzene		14.426	95	3214455	10.638	ppbv	0.03
Spiked Amount		10.000	Range	65 - 135	Recovery	=	106.400%	
Target Compounds								Qvalue
2)	Dichlorodifluoromethane		3.057	85	25842m	0.103	ppbv	
3)	Chlorodifluoromethane		2.989	51	49847m	0.167	ppbv	
9)	Propene		3.018	41	47911m	0.448	ppbv	
10)	Heptane		8.137	43	114788	0.467	ppbv	99
13)	Ethanol		3.623	45	53913m	5.186	ppbv	
15)	Acetone		3.854	43	2596735	16.364	ppbv	
17)	tert-Butyl alcohol		4.304	59	54424m	0.375	ppbv	
20)	Methylene Chloride		4.349	84	297955	3.750	ppbv	96
26)	Hexane		5.697	57	895943	4.549	ppbv	# 46
29)	Chloroform		5.758	83	742361	2.659	ppbv	99
30)	Cyclohexane		7.147	84	49566	0.302	ppbv	# 29
32)	1,1,1-Trichloroethane		6.520	97	22629m	0.083	ppbv	
34)	2-Butanone		5.256	43	400130	2.096	ppbv	
36)	Benzene		6.906	78	86568m	0.220	ppbv	
38)	Trichloroethene		7.848	130	52380m	0.325	ppbv	
44)	2,2,4-Trimethylpentane		7.886	57	74862m	0.113	ppbv	
52)	Tetrachloroethene		11.237	164	1756723	10.911	ppbv	
53)	Toluene		9.819	91	1407847	3.138	ppbv	100
58)	Ethyl Benzene		12.725	91	604636	1.024	ppbv	93
59)	m/p-Xylene		12.979	91	1881335	3.677	ppbv	95
60)	o-Xylene		13.703	91	655673	1.373	ppbv	96
62)	Isopropylbenzene		14.677	105	77324	0.115	ppbv	# 86
64)	n-propylbenzene		15.571	120	77510	0.452	ppbv	74
72)	4-Ethyltoluene		15.854	105	485959	0.855	ppbv	# 95
73)	1,3,5-Trimethylbenzene		16.011	105	266460	0.504	ppbv	99
74)	1,2,4-Trimethylbenzene		16.777	105	1244690	2.215	ppbv	# 65
79)	Naphthalene		22.204	128	97893	0.260	ppbv	# 90

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

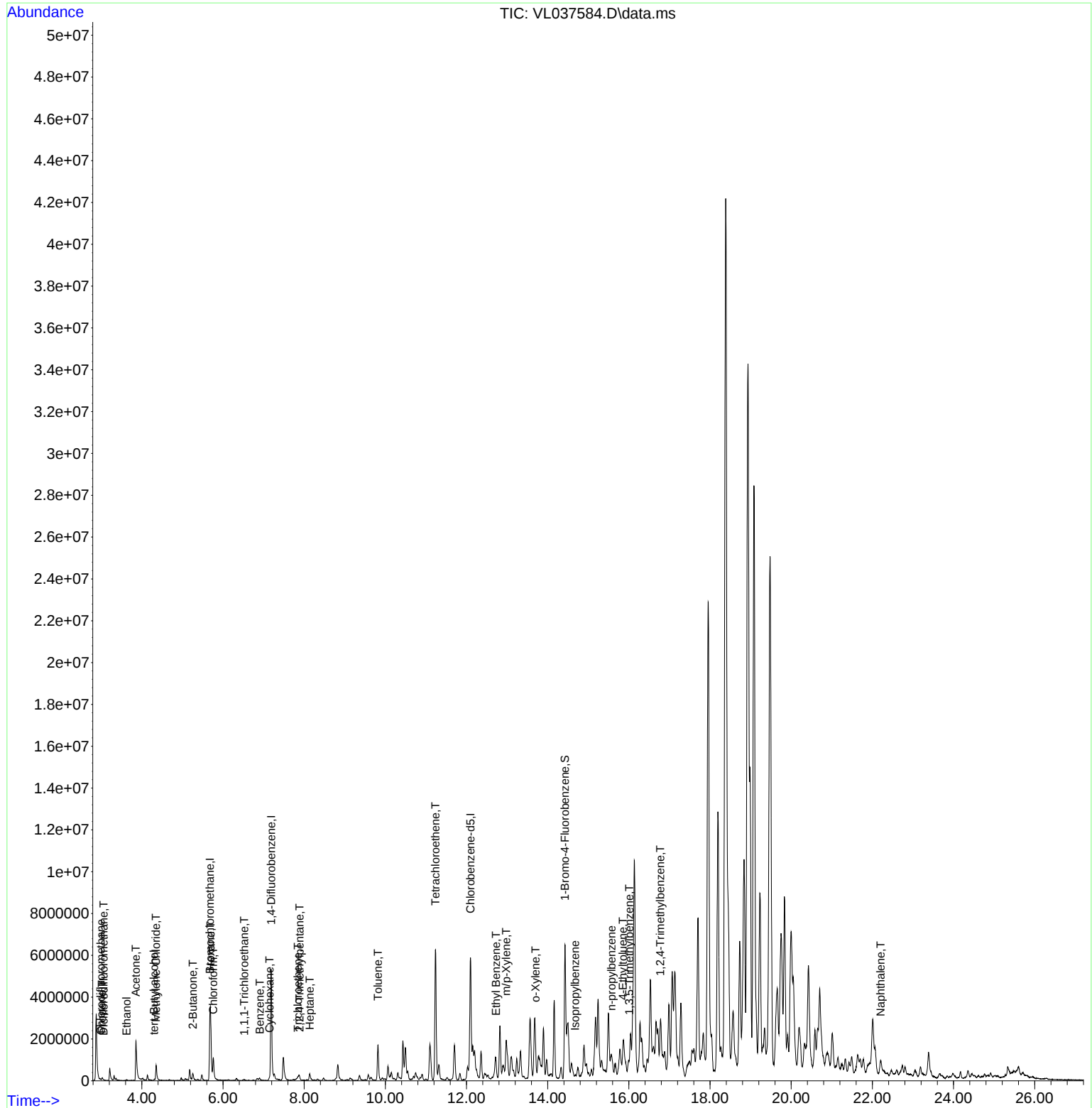
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
Data File : VL037584.D
Acq On : 8 Sep 2021 23:16
Operator : SY/AP
Sample : M3662-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

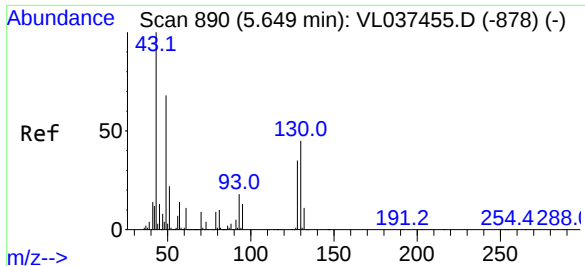
Instrument :
MSVOA_L
ClientSampleId :
SV-1

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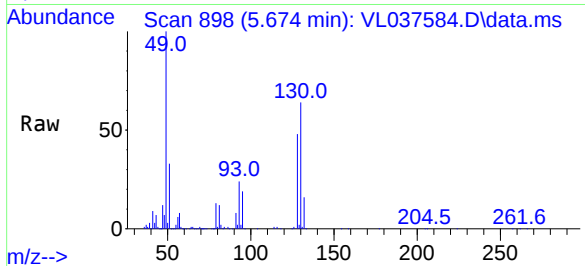
Quant Time: Sep 09 09:14:55 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 898
Delta R.T. 0.026 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Instrument :
MSVOA_L
ClientSampled :
SV-1

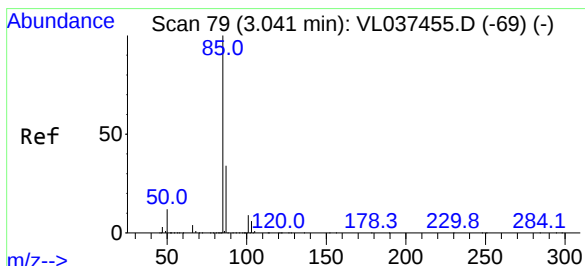
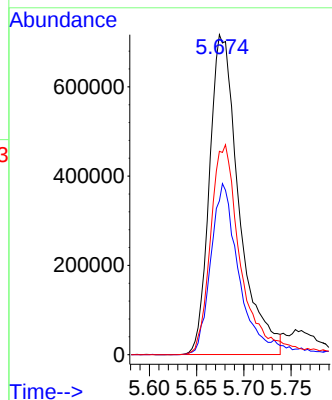
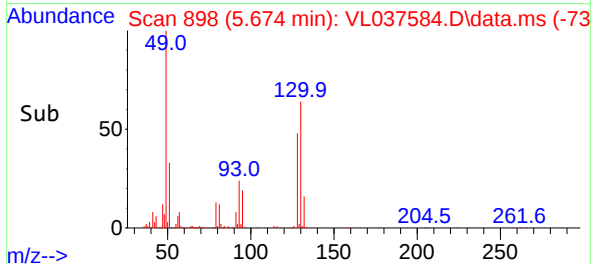


Tgt Ion: 49 Resp: 1559252

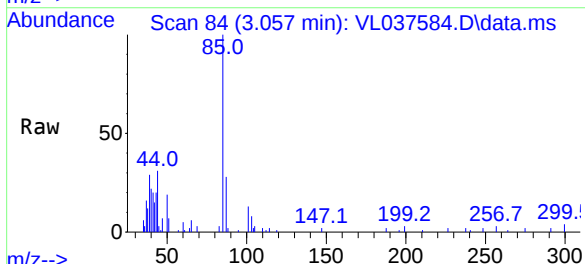
Ion	Ratio	Lower	Upper
49	100		
128	53.4	27.5	82.4
130	69.5	34.0	101.8

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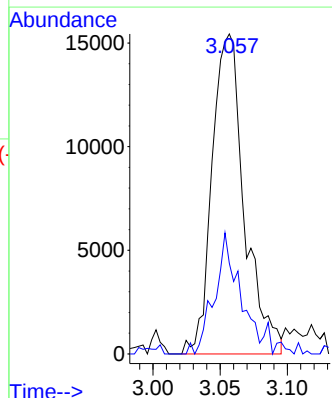
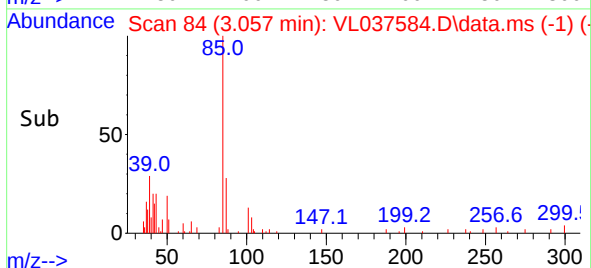


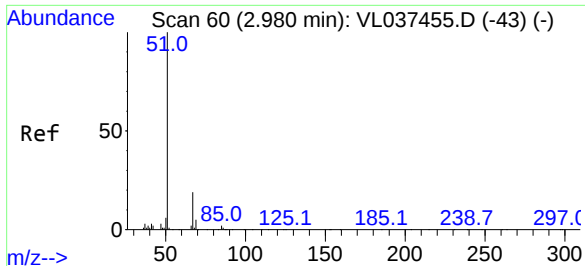
#2
Dichlorodifluoromethane
Concen: 0.103 ppbv m
RT: 3.057 min Scan# 84
Delta R.T. 0.016 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



Tgt Ion: 85 Resp: 25842

Ion	Ratio	Lower	Upper
85	100		
87	28.4	27.6	41.4





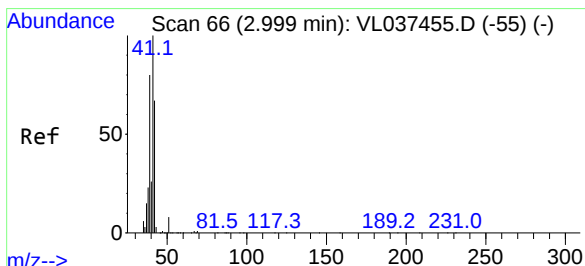
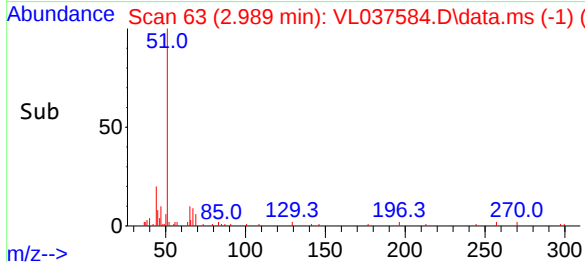
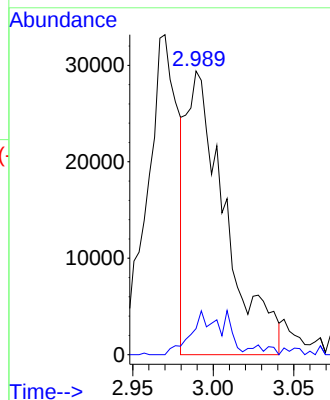
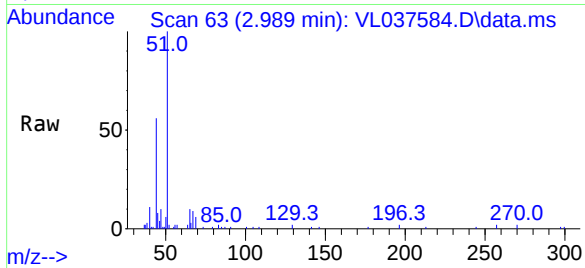
#3
Chlorodifluoromethane
Concen: 0.167 ppbv m
RT: 2.989 min Scan# 63
Delta R.T. 0.009 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 51 Resp: 49847
Ion Ratio Lower Upper
51 100
67 14.5 14.2 21.2

Instrument :
MSVOA_L
ClientSampleId :
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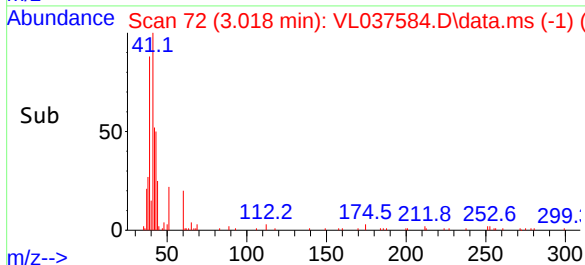
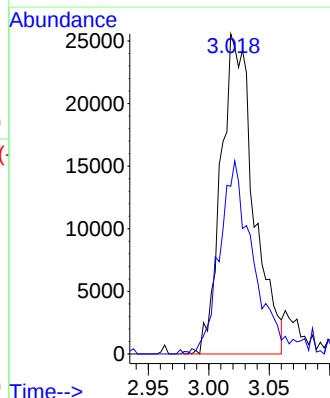
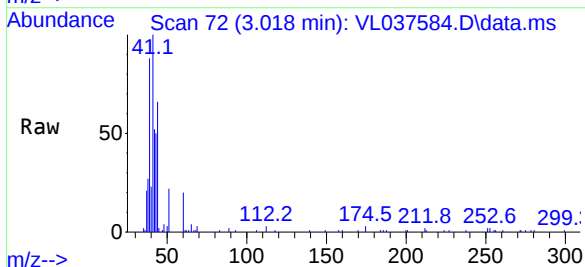
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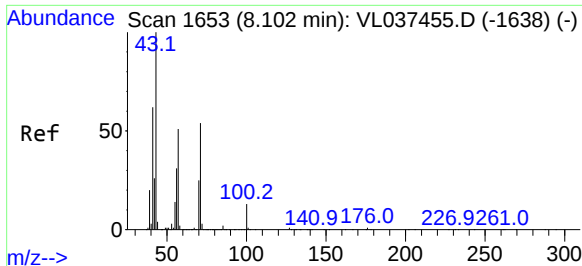
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#9
Propene
Concen: 0.448 ppbv m
RT: 3.018 min Scan# 72
Delta R.T. 0.019 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 41 Resp: 47911
Ion Ratio Lower Upper
41 100
42 64.1 53.7 80.5





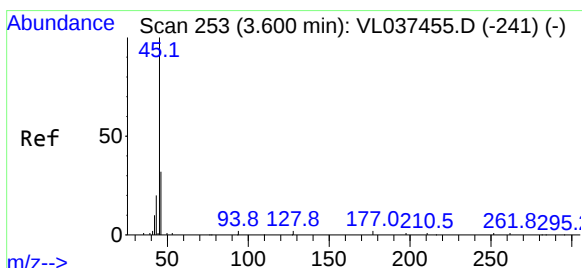
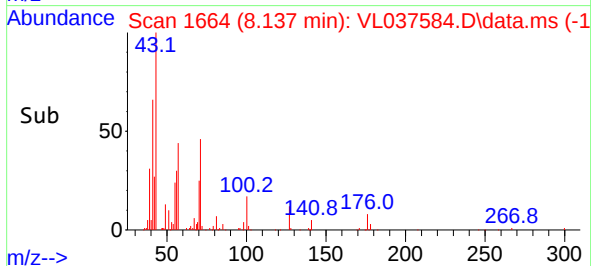
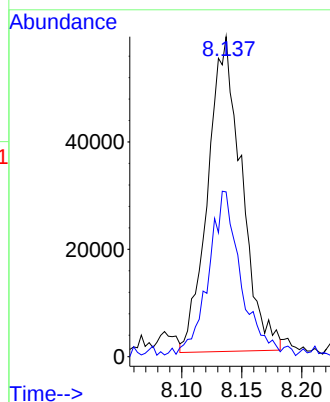
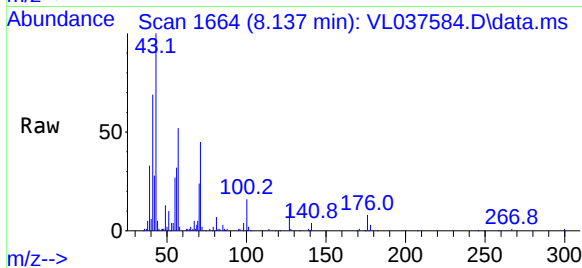
#10
Heptane
Concen: 0.467 ppbv
RT: 8.137 min Scan# 1664
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 43 Resp: 114788
Ion Ratio Lower Upper
43 100
57 52.3 41.0 61.6

Instrument :
MSVOA_L
ClientSampled :
SV-1

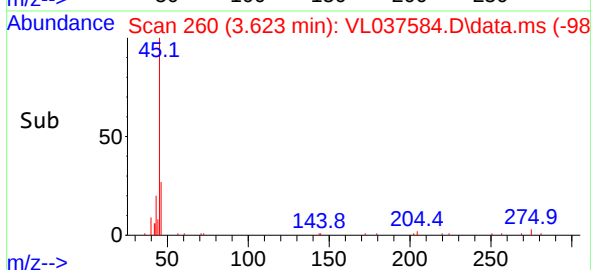
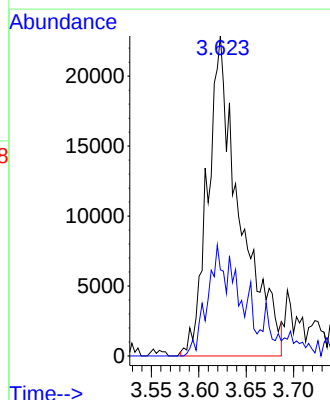
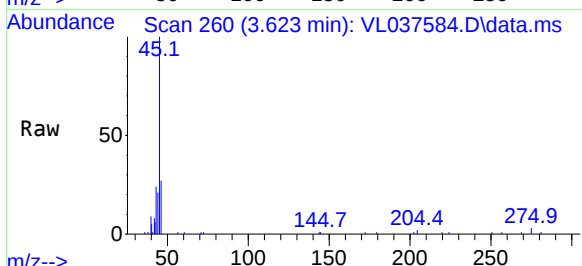
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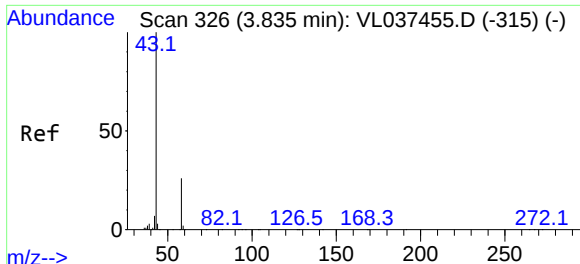
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#13
Ethanol
Concen: 5.186 ppbv m
RT: 3.623 min Scan# 260
Delta R.T. 0.022 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

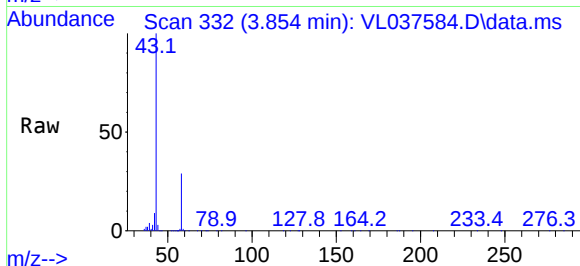
Tgt Ion: 45 Resp: 53913
Ion Ratio Lower Upper
45 100
46 42.2 14.1 56.5





#15
Acetone
Concen: 16.364 ppbv
RT: 3.854 min Scan# 332
Delta R.T. 0.019 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

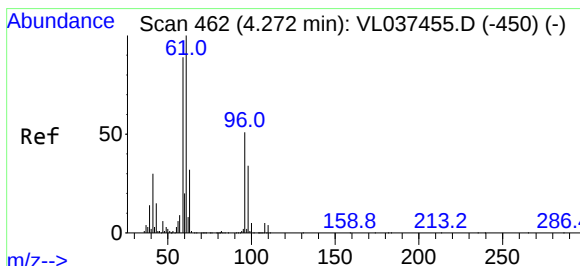
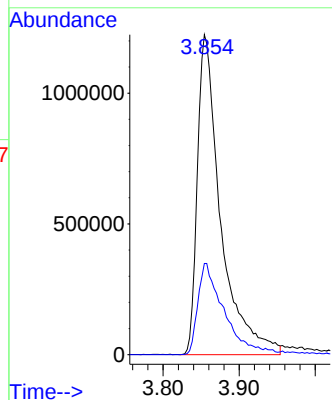
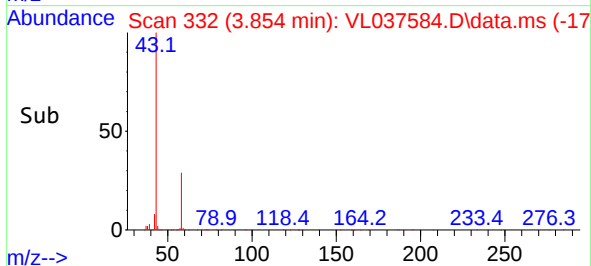
Instrument :
MSVOA_L
ClientSampled :
SV-1



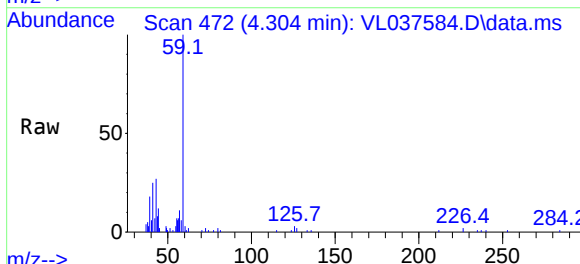
Tgt Ion: 43 Resp: 2596735
Ion Ratio Lower Upper
43 100
58 32.9 24.8 37.2

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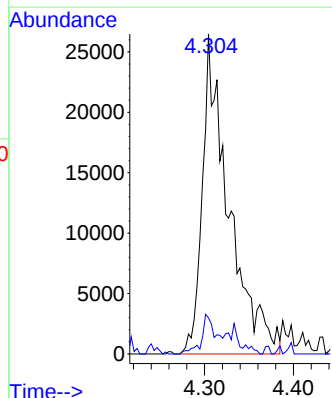
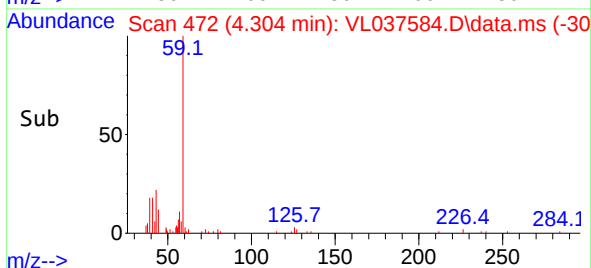
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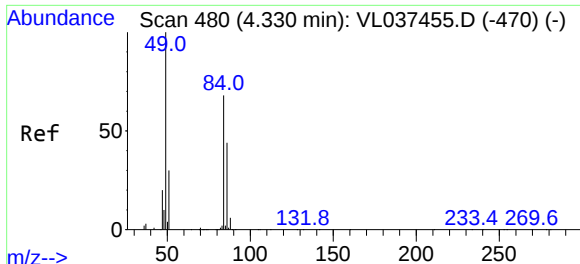


#17
tert-Butyl alcohol
Concen: 0.375 ppbv m
RT: 4.304 min Scan# 472
Delta R.T. 0.032 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



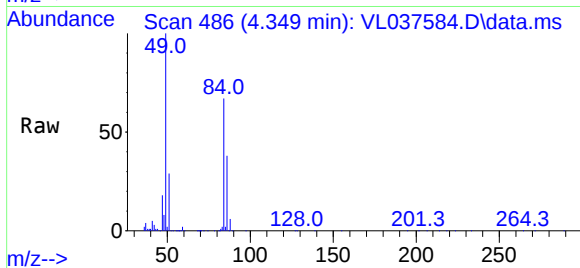
Tgt Ion: 59 Resp: 54424
Ion Ratio Lower Upper
59 100
57 11.4 8.3 12.5





#20
Methylene Chloride
Concen: 3.750 ppbv
RT: 4.349 min Scan# 486
Delta R.T. 0.019 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Instrument :
MSVOA_L
ClientSampled :
SV-1

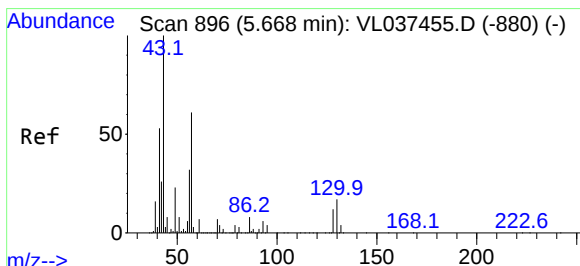
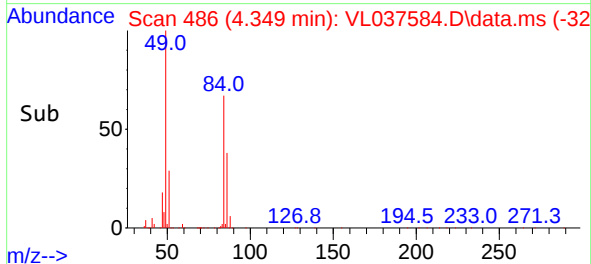
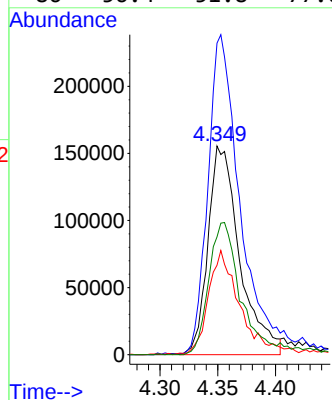


Tgt Ion: 84 Resp: 297955

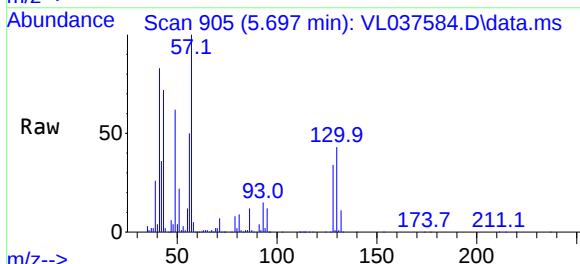
Ion	Ratio	Lower	Upper
84	100		
49	148.8	118.2	177.2
51	42.1	36.6	55.0
86	56.4	51.8	77.6

Manual Integrations
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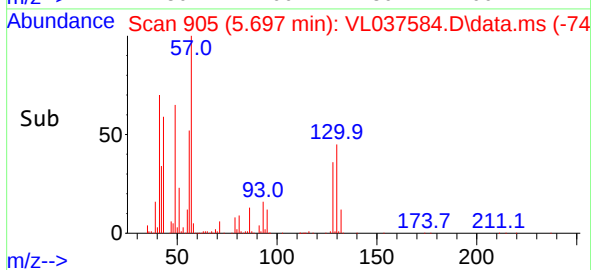
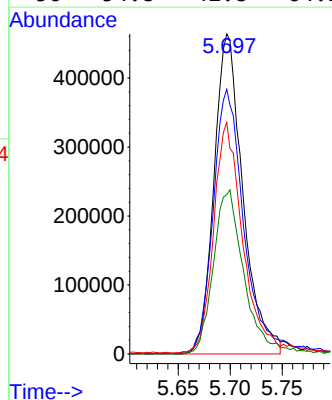


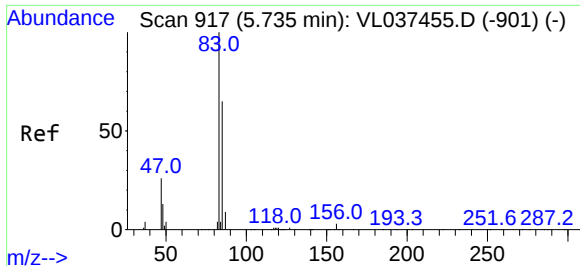
#26
Hexane
Concen: 4.549 ppbv
RT: 5.697 min Scan# 905
Delta R.T. 0.029 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



Tgt Ion: 57 Resp: 895943

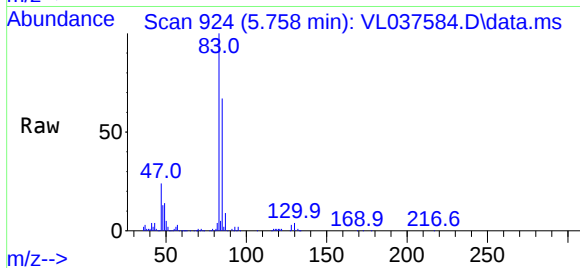
Ion	Ratio	Lower	Upper
57	100		
41	91.2	72.3	108.5
43	73.8	172.3	258.5#
56	54.8	42.8	64.2





#29
Chloroform
Concen: 2.659 ppbv
RT: 5.758 min Scan# 924
Delta R.T. 0.022 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

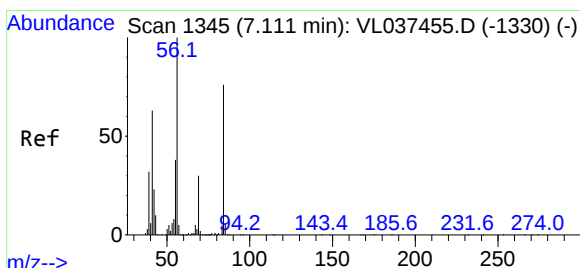
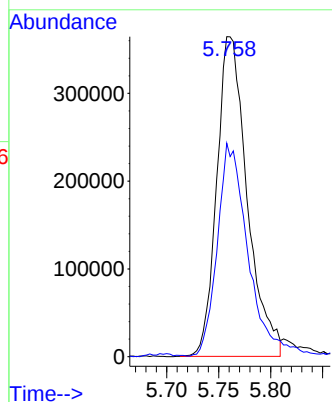
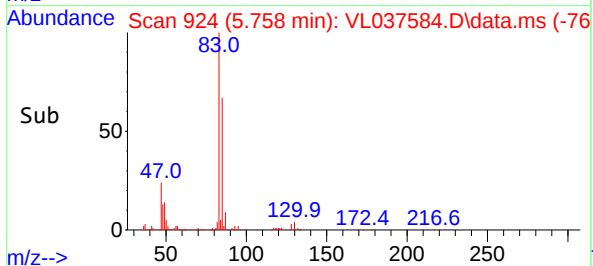
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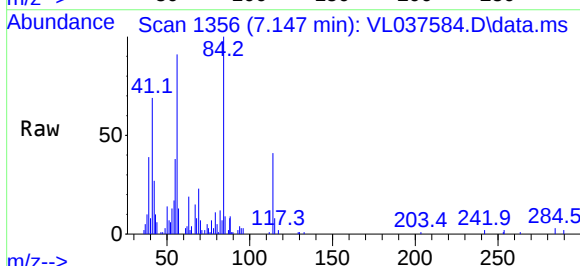
Tgt Ion: 83 Resp: 742361
Ion Ratio Lower Upper
83 100
85 66.4 52.3 78.5

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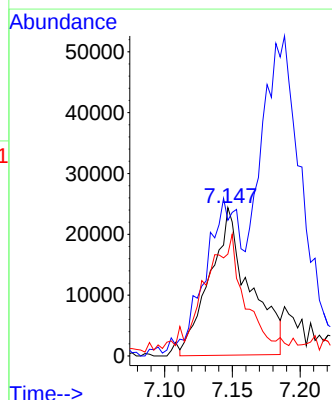
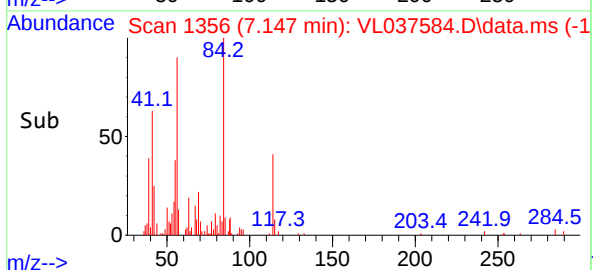
MMDadoda
9/10/2021 10:53:31 AM

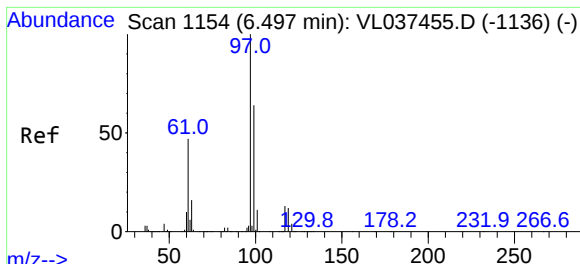


#30
Cyclohexane
Concen: 0.302 ppbv
RT: 7.147 min Scan# 1356
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



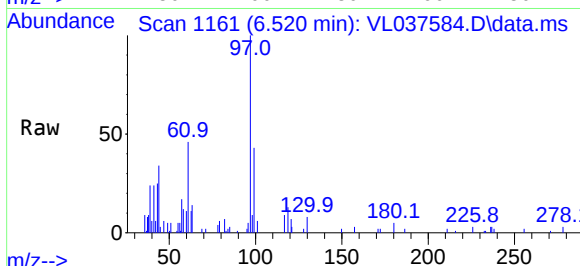
Tgt Ion: 84 Resp: 49566
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 83.9 67.0 100.6





#32
1,1,1-Trichloroethane
Concen: 0.083 ppbv m
RT: 6.520 min Scan# 1161
Delta R.T. 0.022 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

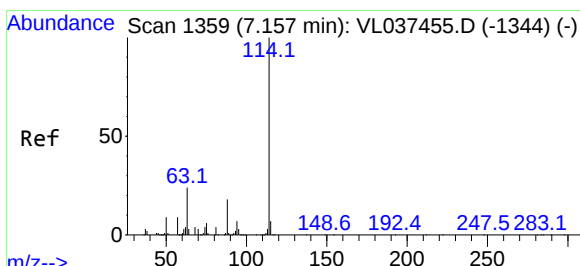
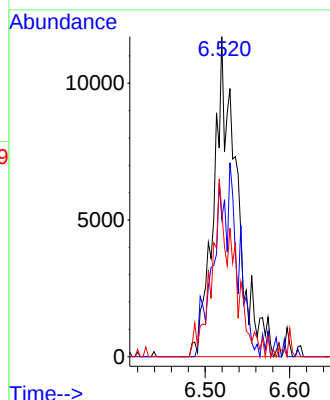
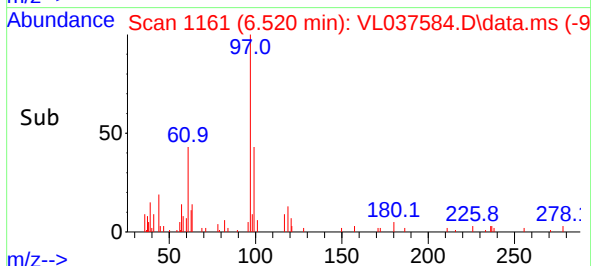
Instrument :
MSVOA_L
ClientSampled :
SV-1



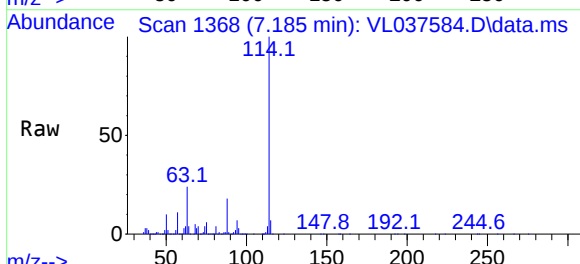
Tgt Ion: 97 Resp: 22629
Ion Ratio Lower Upper
97 100
99 59.9 51.8 77.6
61 0.0 39.6 59.4#

Manual Integrations
APPROVED

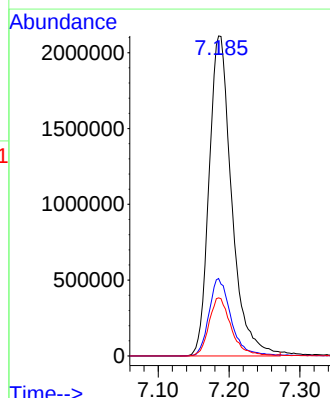
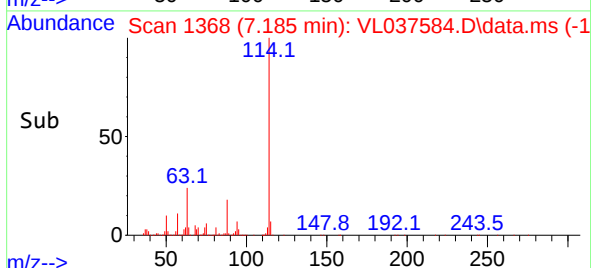
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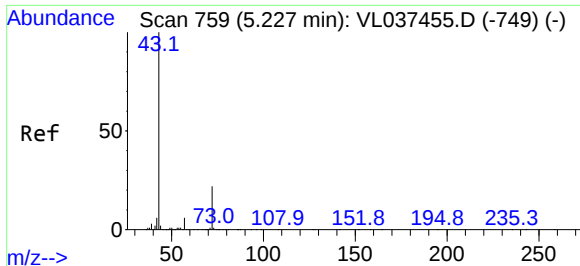


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.185 min Scan# 1368
Delta R.T. 0.029 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



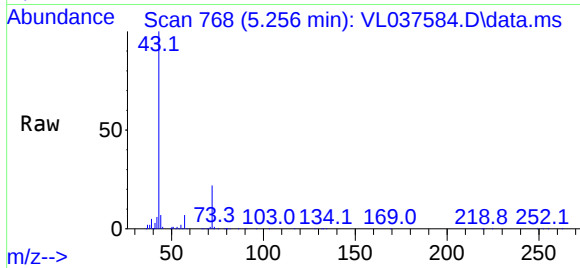
Tgt Ion: 114 Resp: 4673907
Ion Ratio Lower Upper
114 100
63 23.9 19.3 28.9
88 18.2 14.2 21.4





#34
2-Butanone
Concen: 2.096 ppbv
RT: 5.256 min Scan# 768
Delta R.T. 0.029 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

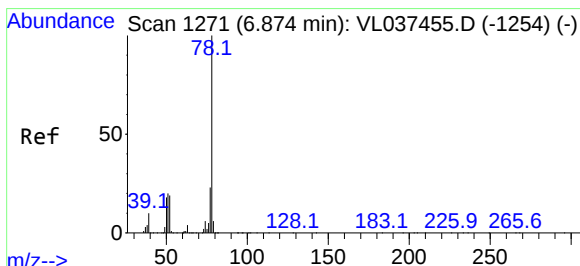
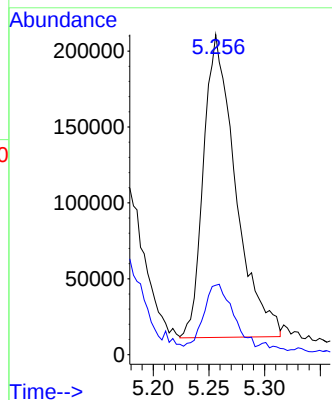
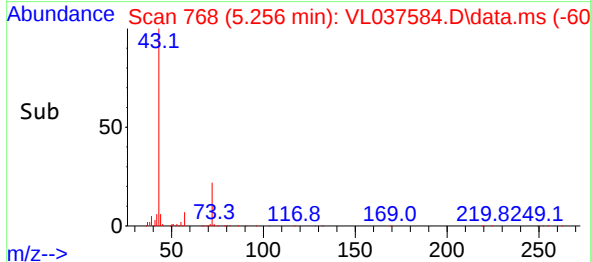
Instrument :
MSVOA_L
ClientSampled :
SV-1



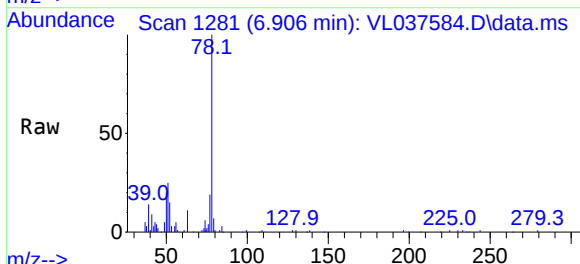
Tgt Ion: 43 Resp: 400130
Ion Ratio Lower Upper
43 100
72 26.0 17.4 26.0

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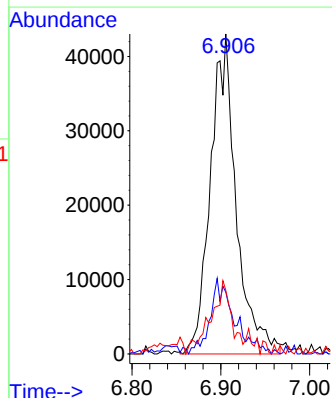
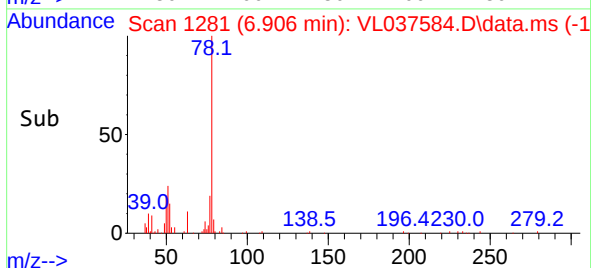
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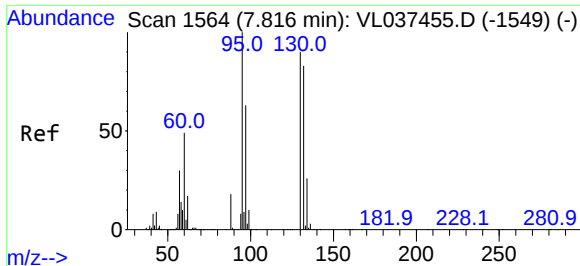


#36
Benzene
Concen: 0.220 ppbv m
RT: 6.906 min Scan# 1281
Delta R.T. 0.032 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



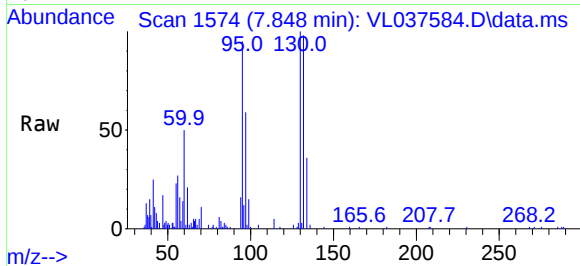
Tgt Ion: 78 Resp: 86568
Ion Ratio Lower Upper
78 100
77 19.3 18.2 27.4
50 19.9 14.6 21.8





#38
Trichloroethene
Concen: 0.325 ppbv m
RT: 7.848 min Scan# 1574
Delta R.T. 0.032 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

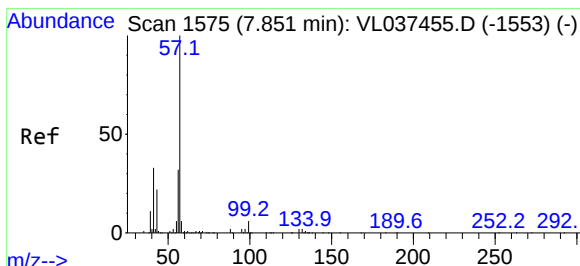
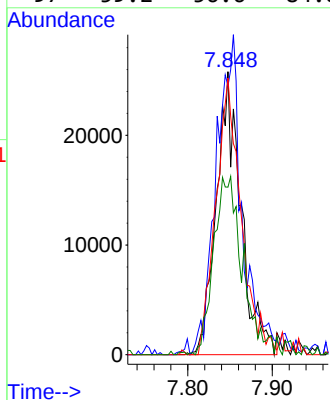
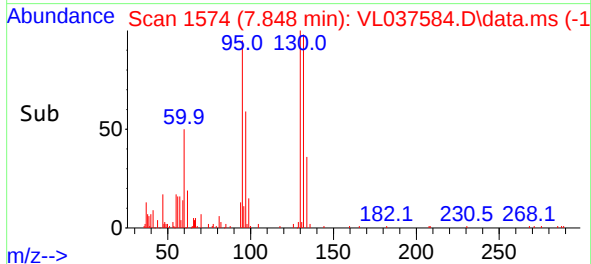
Instrument :
MSVOA_L
ClientSampled :
SV-1



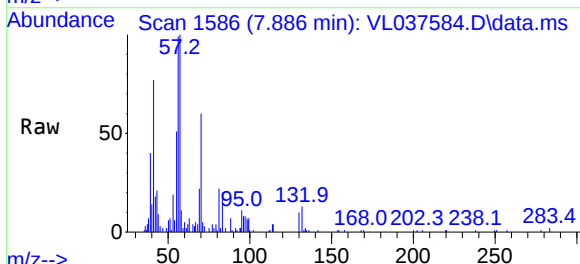
Tgt Ion:	130	Resp:	52380
Ion	Ratio	Lower	Upper
130	100		
95	94.9	89.2	133.8
132	97.8	74.0	111.0
97	59.2	56.6	84.8

Manual Integrations
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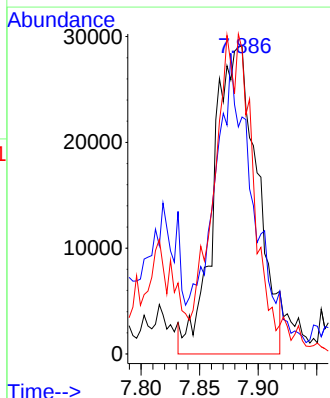
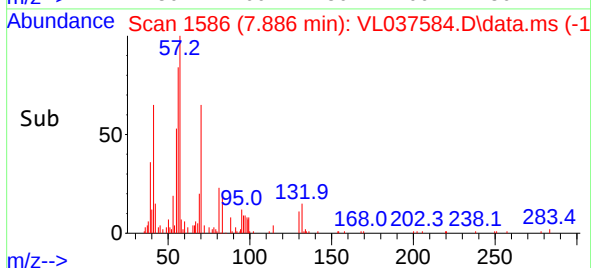
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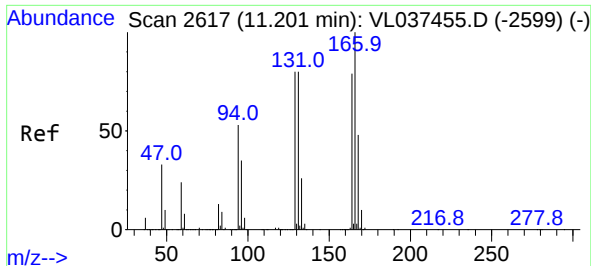


#44
2,2,4-Trimethylpentane
Concen: 0.113 ppbv m
RT: 7.886 min Scan# 1586
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

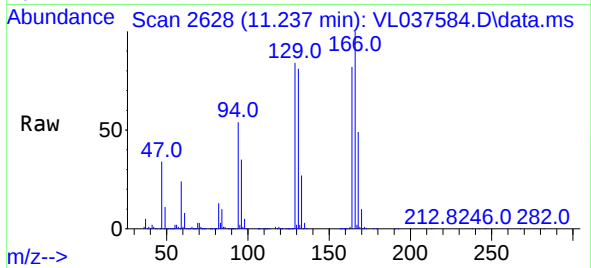


Tgt Ion:	57	Resp:	74862
Ion	Ratio	Lower	Upper
57	100		
41	85.0	26.2	39.4#
56	99.2	25.4	38.2#



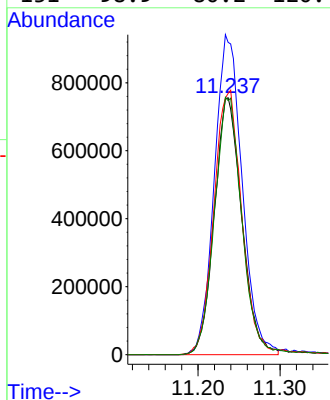


#52
Tetrachloroethene
Concen: 10.911 ppbv
RT: 11.237 min Scan# 2628
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



Tgt Ion:164 Resp: 1756723

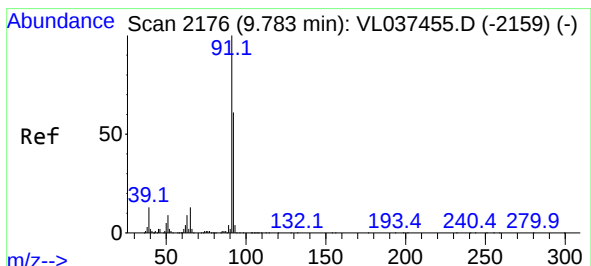
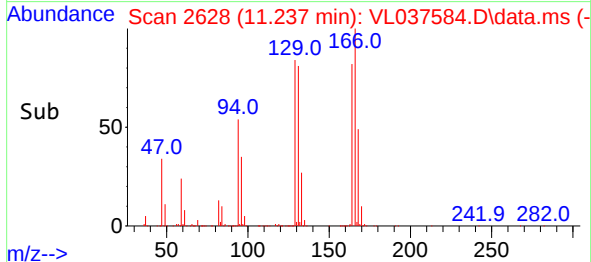
Ion	Ratio	Lower	Upper
164	100		
166	121.6	100.7	151.1
129	101.7	80.9	121.3
131	98.9	80.2	120.4



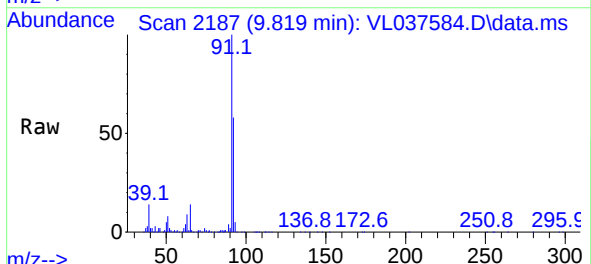
Instrument :
MSVOA_L
ClientSampled :
SV-1

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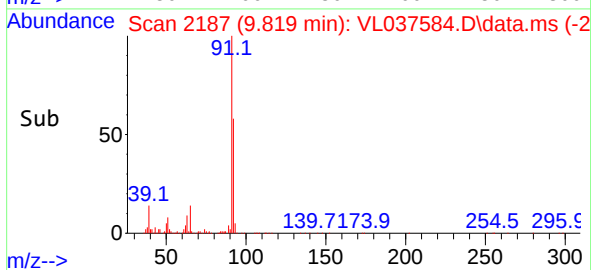
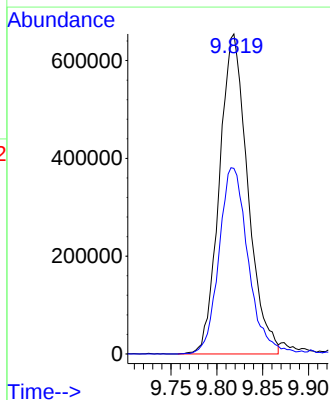


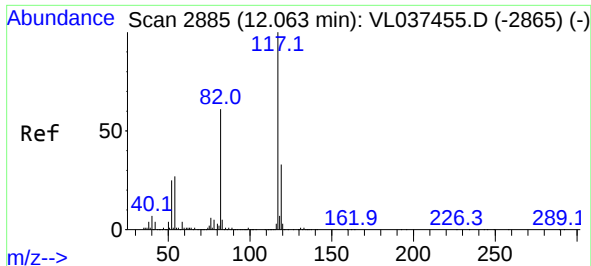
#53
Toluene
Concen: 3.138 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



Tgt Ion: 91 Resp: 1407847

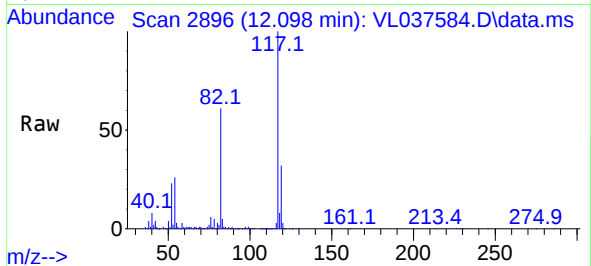
Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.8	73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.098 min Scan# 2896
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Instrument :
MSVOA_L
ClientSampled :
SV-1

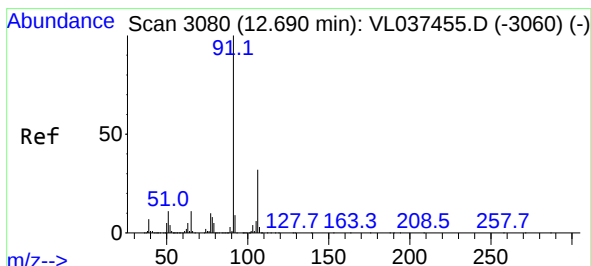
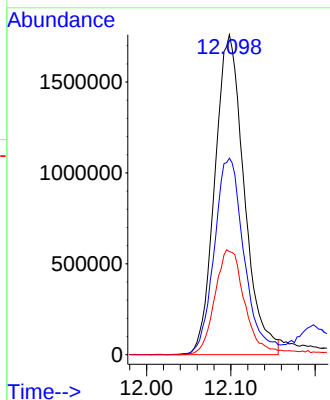
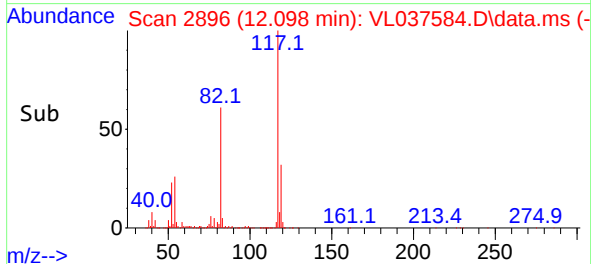


Tgt Ion:117 Resp: 4253224

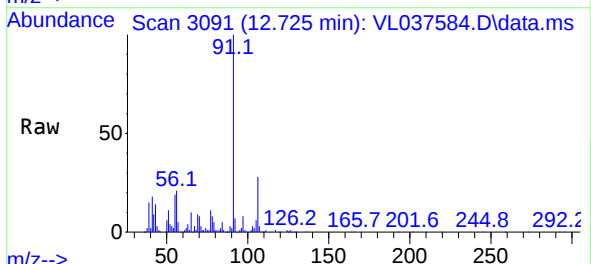
Ion	Ratio	Lower	Upper
117	100		
82	62.8	52.9	79.3
119	34.5	24.8	37.2

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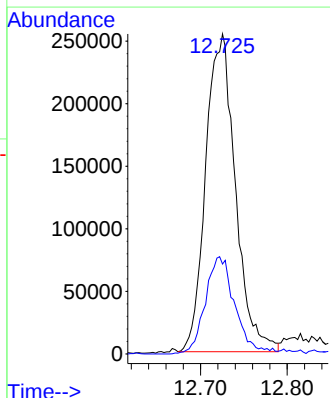
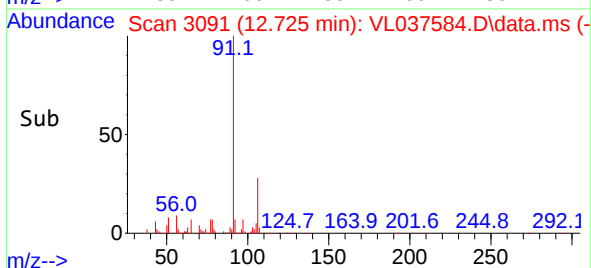


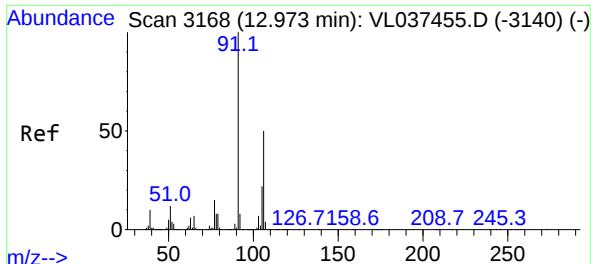
#58
Ethyl Benzene
Concen: 1.024 ppbv
RT: 12.725 min Scan# 3091
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



Tgt Ion: 91 Resp: 604636

Ion	Ratio	Lower	Upper
91	100		
106	28.0	25.7	38.5





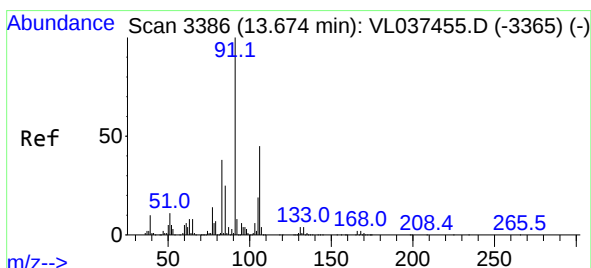
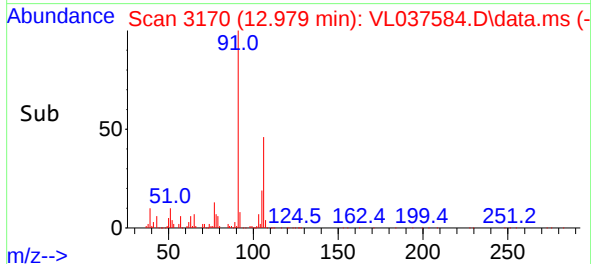
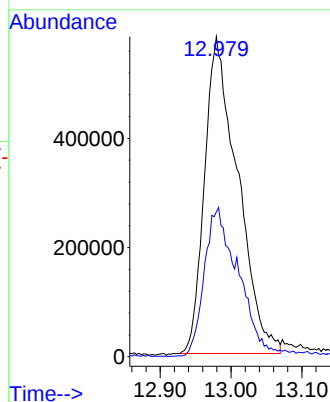
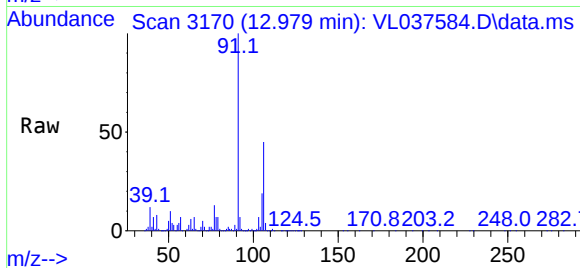
#59
m/p-Xylene
Concen: 3.677 ppbv
RT: 12.979 min Scan# 3170
Delta R.T. 0.006 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion: 91 Resp: 1881335
Ion Ratio Lower Upper
91 100
106 49.6 36.9 55.3

Instrument :
MSVOA_L
ClientSampled :
SV-1

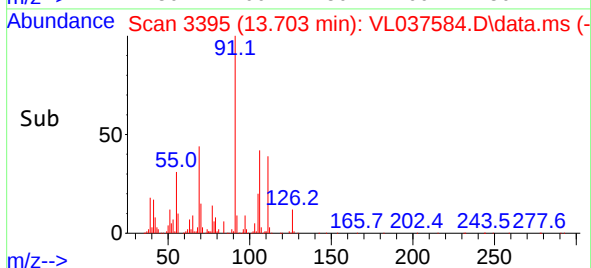
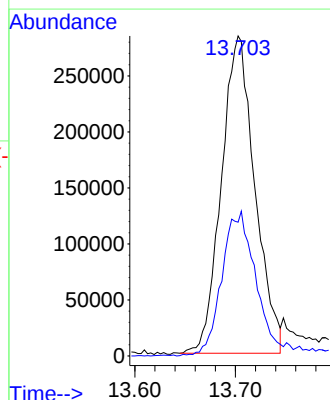
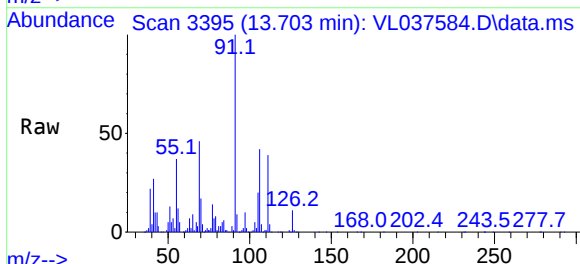
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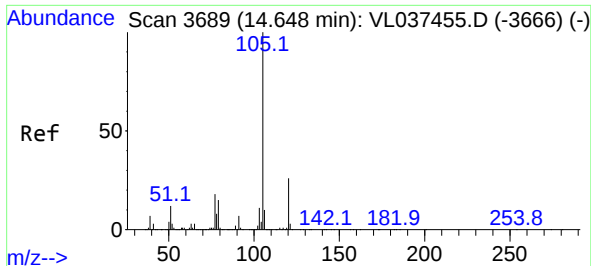
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#60
o-Xylene
Concen: 1.373 ppbv
RT: 13.703 min Scan# 3395
Delta R.T. 0.029 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

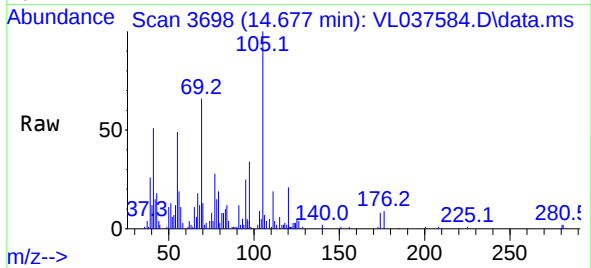
Tgt Ion: 91 Resp: 655673
Ion Ratio Lower Upper
91 100
106 50.3 23.7 71.1





#62
Isopropylbenzene
Concen: 0.115 ppbv
RT: 14.677 min Scan# 3698
Delta R.T. 0.029 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

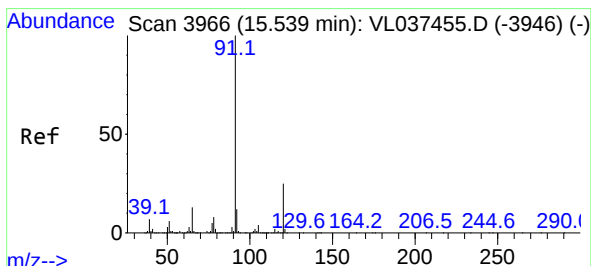
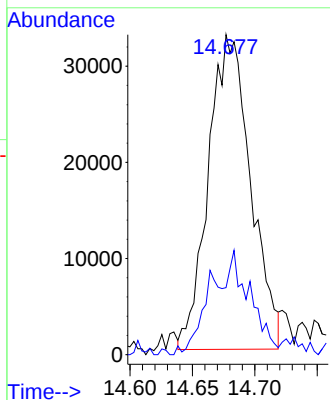
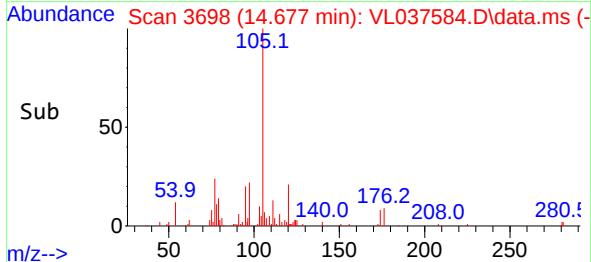
Instrument :
MSVOA_L
ClientSampled :
SV-1



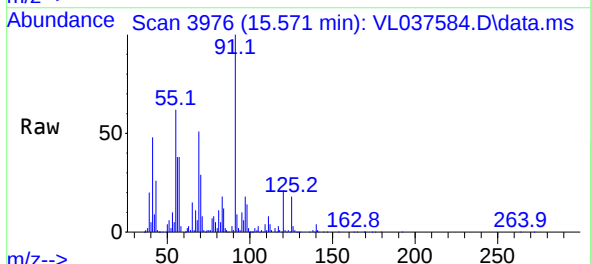
Tgt Ion:105 Resp: 77324
Ion Ratio Lower Upper
105 100
120 34.2 21.5 32.3#

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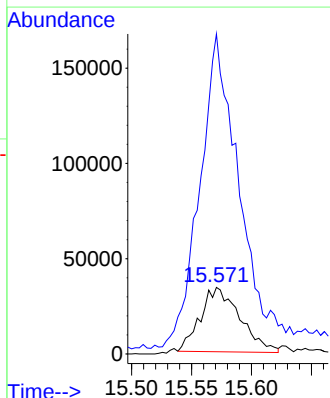
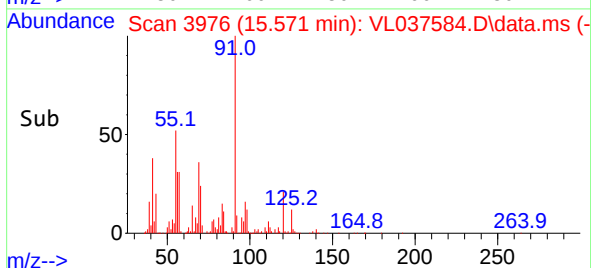
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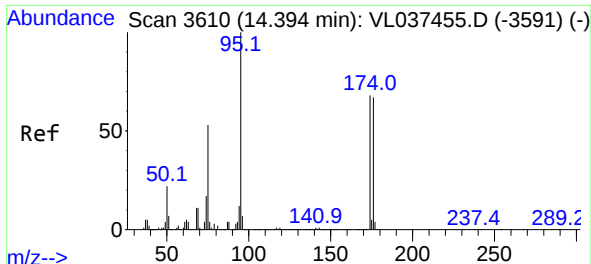


#64
n-propylbenzene
Concen: 0.452 ppbv
RT: 15.571 min Scan# 3976
Delta R.T. 0.032 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



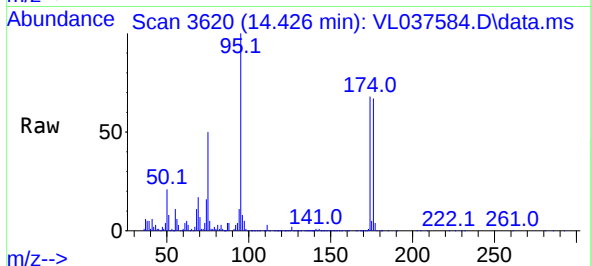
Tgt Ion:120 Resp: 77510
Ion Ratio Lower Upper
120 100
91 535.5 373.8 560.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.638 ppbv
RT: 14.426 min Scan# 3620
Delta R.T. 0.032 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

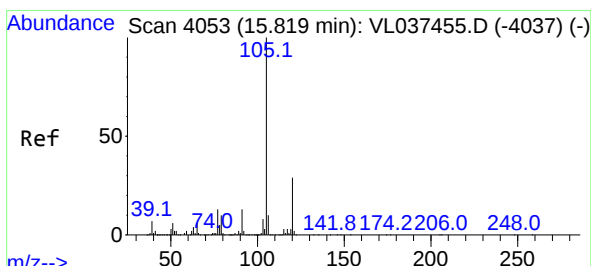
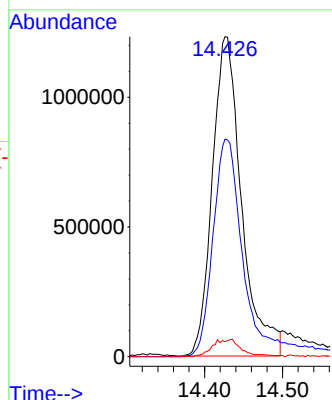
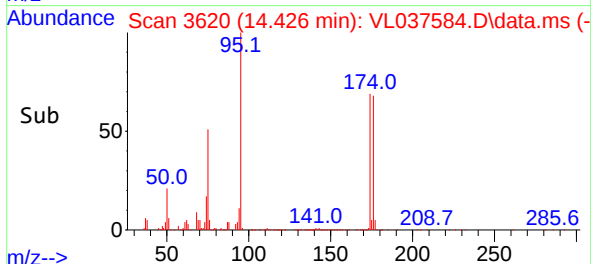
Instrument :
MSVOA_L
ClientSampled :
SV-1



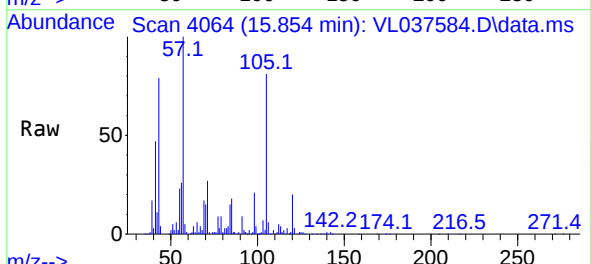
Tgt Ion: 95 Resp: 3214455
Ion Ratio Lower Upper
95 100
174 74.3 59.6 89.4
175 5.5 4.6 7.0

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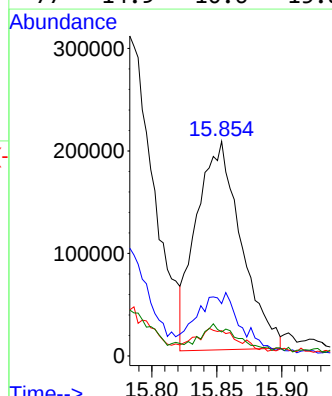
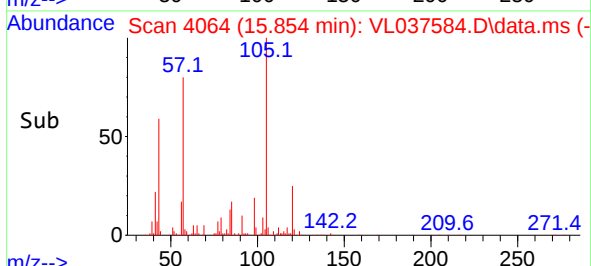
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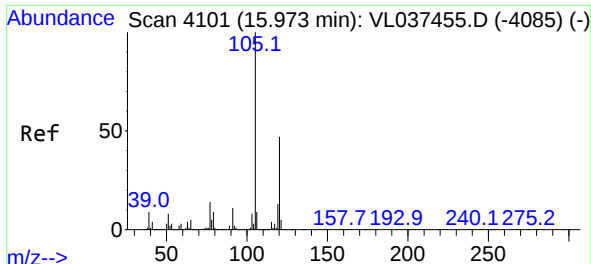


#72
4-Ethyltoluene
Concen: 0.855 ppbv
RT: 15.854 min Scan# 4064
Delta R.T. 0.035 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16



Tgt Ion: 105 Resp: 485959
Ion Ratio Lower Upper
105 100
120 33.6 24.7 37.1
91 15.1 9.8 14.8#
77 14.9 10.6 15.8





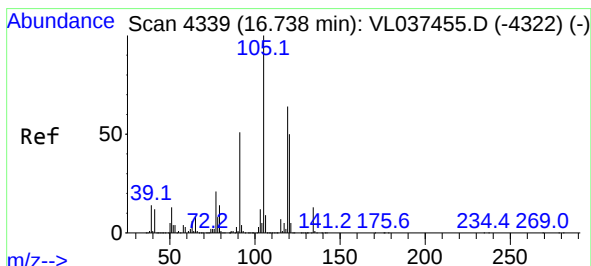
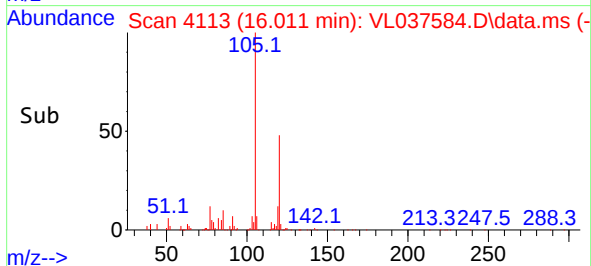
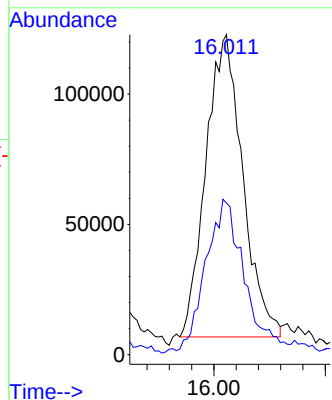
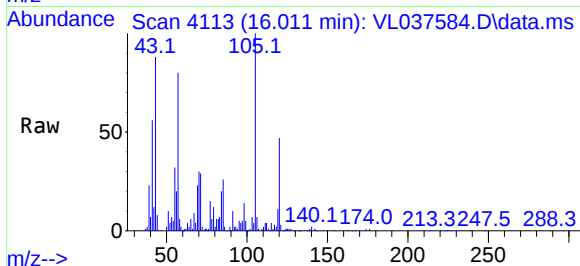
#73
1,3,5-Trimethylbenzene
Concen: 0.504 ppbv
RT: 16.011 min Scan# 4113
Delta R.T. 0.038 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Tgt Ion:105 Resp: 266460
Ion Ratio Lower Upper
105 100
120 47.4 37.6 56.4

Instrument :
MSVOA_L
ClientSampled :
SV-1

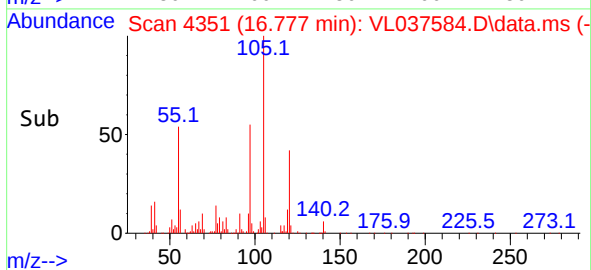
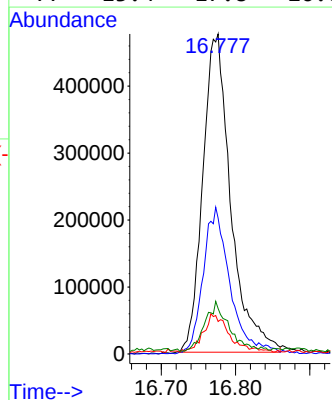
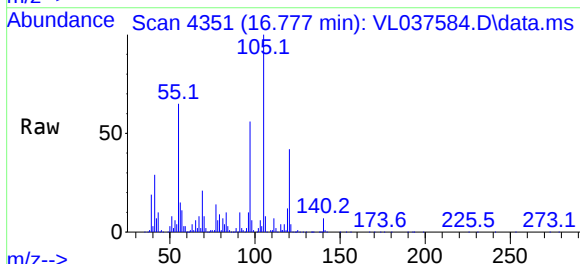
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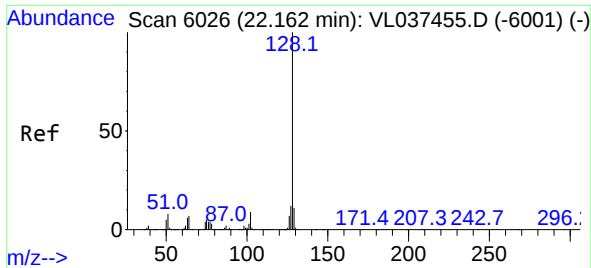
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#74
1,2,4-Trimethylbenzene
Concen: 2.215 ppbv
RT: 16.777 min Scan# 4351
Delta R.T. 0.038 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

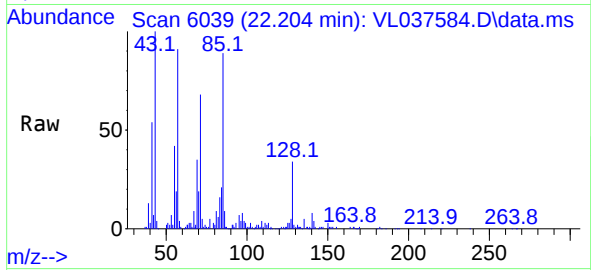
Tgt Ion:105 Resp: 1244690
Ion Ratio Lower Upper
105 100
120 42.1 40.4 60.6
91 9.7 44.6 67.0#
77 13.4 17.8 26.6#





#79
Naphthalene
Concen: 0.260 ppbv
RT: 22.204 min Scan# 6039
Delta R.T. 0.042 min
Lab File: VL037584.D
Acq: 8 Sep 2021 23:16

Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.4	14.2
129	4.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
9/10/2021 10:53:31 AM

