

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040861.D
 Acq On : 14 Nov 2023 21:52
 Operator : SY/MD
 Sample : 05275-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-OA-8

Quant Time: Nov 16 04:52:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

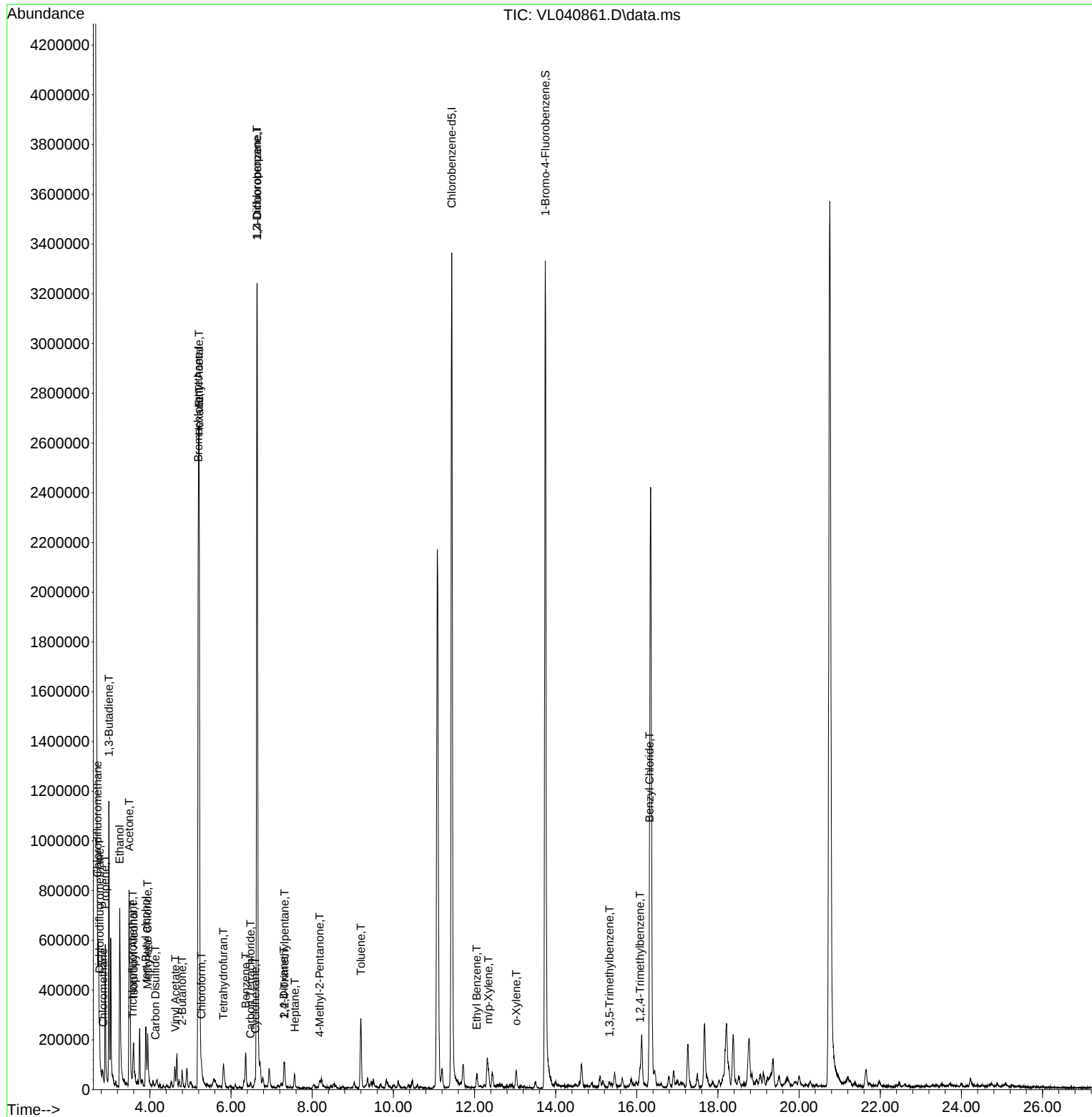
Internal Standards						
1) Bromochloromethane	5.192	49	939237	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	2500143	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2272848	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	1731972	9.733	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	100187	0.526	ppbv	95
3) Chlorodifluoromethane	2.706	51	103741	0.692	ppbv #	79
4) Chloromethane	2.844	50	28827	0.535	ppbv	91
9) Propene	2.896	41	113423	2.244	ppbv	87
10) Heptane	7.571	43	10763	0.087	ppbv #	28
11) Trichlorofluoromethane	3.578	101	33406	0.228	ppbv	92
13) Ethanol	3.256	45	731921	74.585	ppbv #	100
15) Acetone	3.488	43	833606	8.333	ppbv	97
16) 1,3-Butadiene	2.989	39	307218	6.071	ppbv #	17
17) tert-Butyl alcohol	3.899	59	177371	2.073	ppbv	97
19) Isopropyl Alcohol	3.597	45	162554	2.700	ppbv #	95
20) Methylene Chloride	3.944	84	54596	1.323	ppbv	92
23) Vinyl Acetate	4.629	43	8330	0.064	ppbv #	71
25) Ethyl Acetate	5.211	43	622825	3.007	ppbv #	78
26) Hexane	5.214	57	858784	9.368	ppbv #	41
27) Carbon Disulfide	4.134	76	3691	0.032	ppbv #	1
29) Chloroform	5.272	83	9408	0.061	ppbv	100
30) Cyclohexane	6.600	84	2664	0.034	ppbv #	1
34) 2-Butanone	4.793	43	78960	0.620	ppbv	92
35) Carbon Tetrachloride	6.481	117	7111	0.046	ppbv #	90
36) Benzene	6.362	78	104980	0.517	ppbv	97
39) 1,2-Dichloropropane	6.639	63	603110	7.496	ppbv #	23
40) 1,4-Dioxane	7.304	88	1071	0.034	ppbv #	1
41) Tetrahydrofuran	5.809	42	7897	0.101	ppbv #	39
44) 2,2,4-Trimethylpentane	7.317	57	38230	0.113	ppbv #	1
50) 4-Methyl-2-Pentanone	8.182	43	7511	0.038	ppbv #	29
53) Toluene	9.198	91	208976	0.936	ppbv	99
58) Ethyl Benzene	12.056	91	49034	0.165	ppbv	94
59) m/p-Xylene	12.342	91	30280	0.120	ppbv #	32
60) o-Xylene	13.027	91	36358	0.151	ppbv #	31
66) Benzyl Chloride	16.310	91	508	0.046	ppbv #	62
73) 1,3,5-Trimethylbenzene	15.323	105	11394	0.049	ppbv #	54
74) 1,2,4-Trimethylbenzene	16.079	105	14441	0.055	ppbv #	42

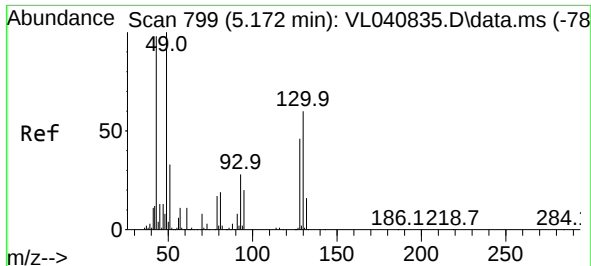
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
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NT-OA-8

Quant Time: Nov 16 04:52:25 2023
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
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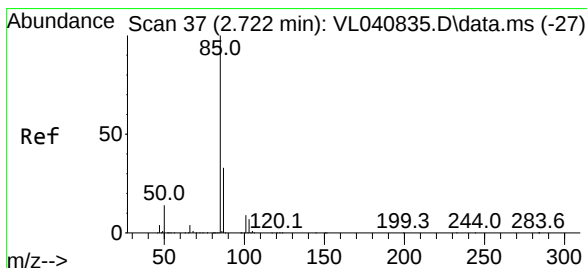
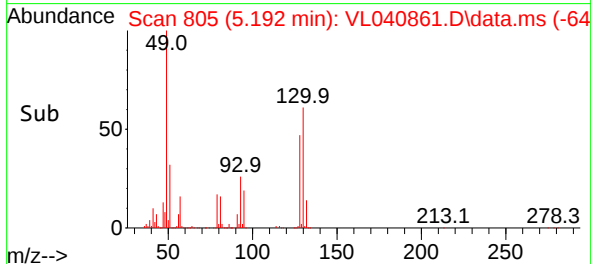
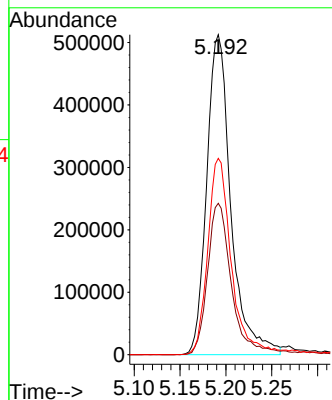
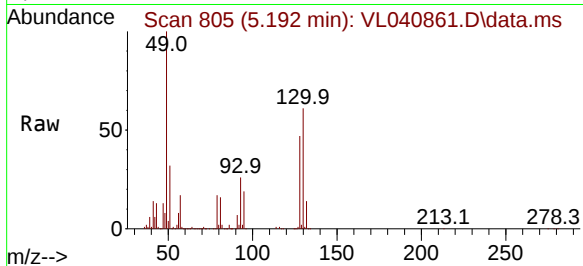




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

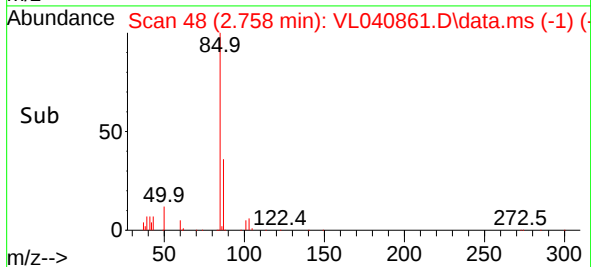
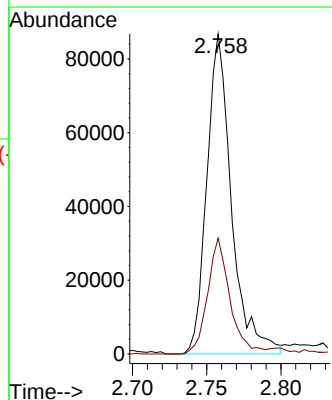
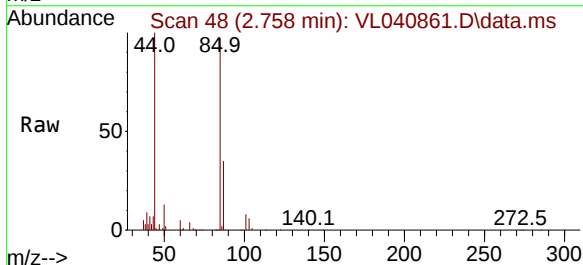
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

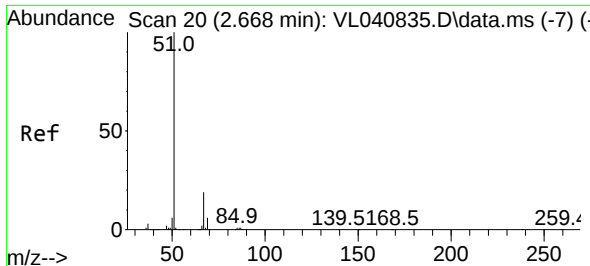
Tgt Ion: 49 Resp: 939237
Ion Ratio Lower Upper
49 100
128 48.3 23.8 71.2
130 62.1 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.526 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.035 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 85 Resp: 100187
Ion Ratio Lower Upper
85 100
87 36.2 26.7 40.1

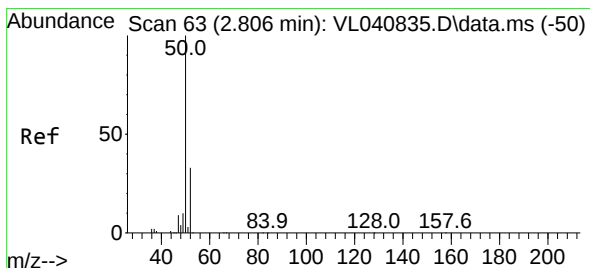
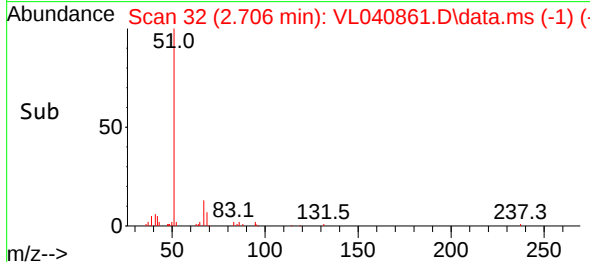
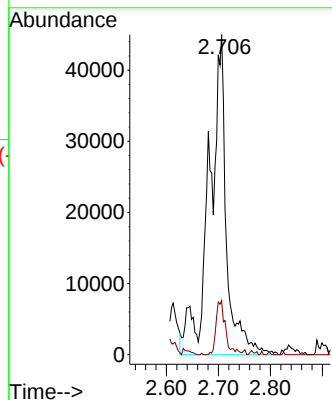
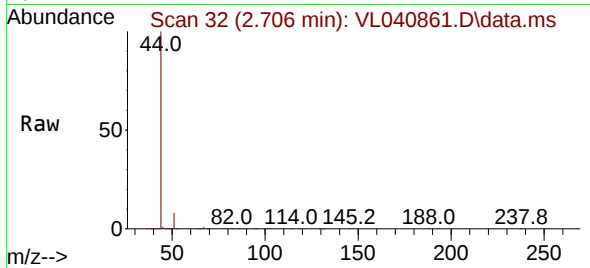




#3
Chlorodifluoromethane
Concen: 0.692 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.038 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

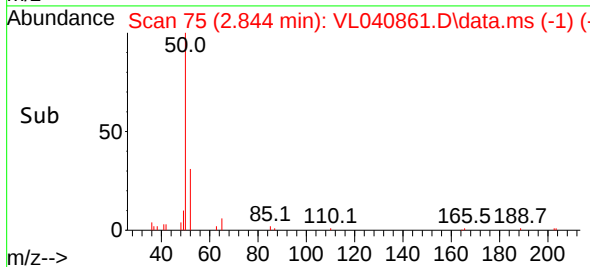
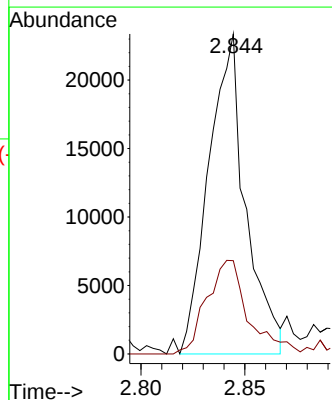
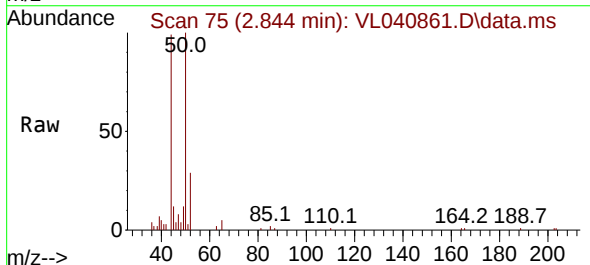
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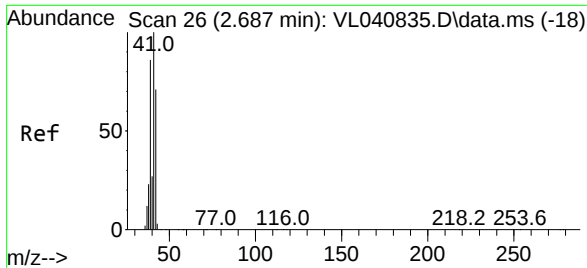
Tgt Ion: 51 Resp: 103741
Ion Ratio Lower Upper
51 100
67 9.2 15.0 22.4#



#4
Chloromethane
Concen: 0.535 ppbv
RT: 2.844 min Scan# 75
Delta R.T. 0.038 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 50 Resp: 28827
Ion Ratio Lower Upper
50 100
52 27.9 26.5 39.7

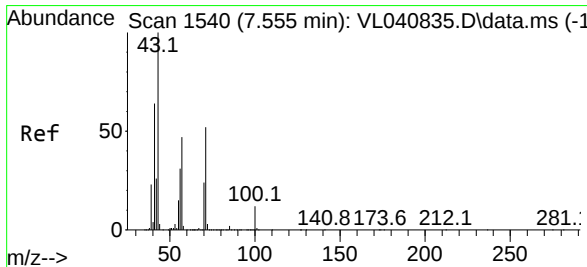
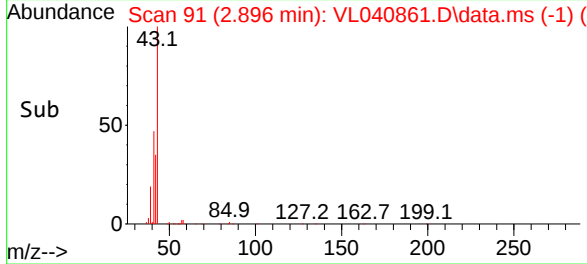
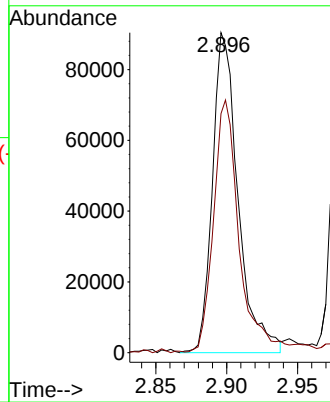
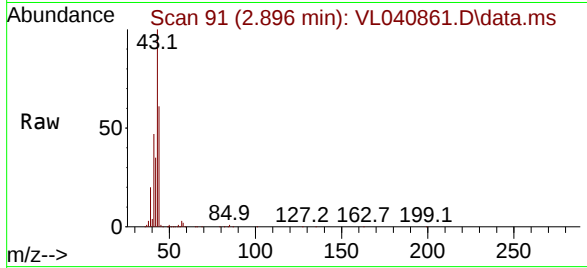




#9
Propene
Concen: 2.244 ppbv
RT: 2.896 min Scan# 91
Delta R.T. 0.209 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

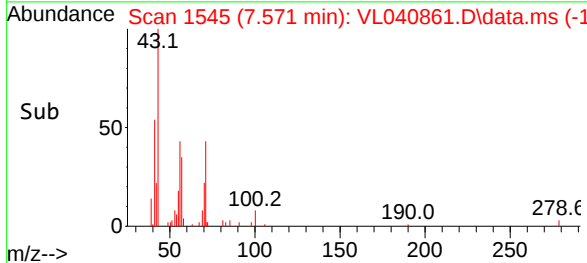
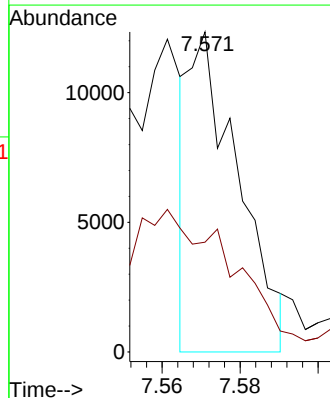
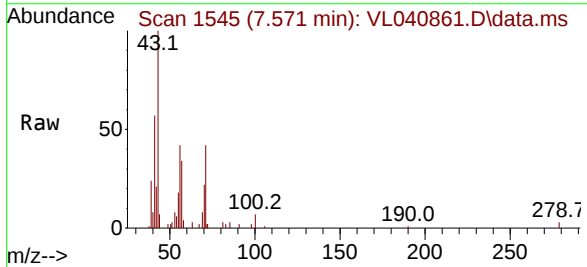
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

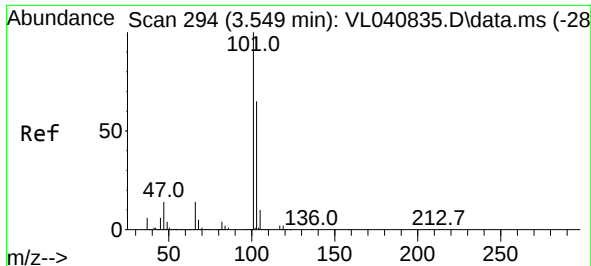
Tgt Ion: 41 Resp: 113423
Ion Ratio Lower Upper
41 100
42 81.7 56.5 84.7



#10
Heptane
Concen: 0.087 ppbv
RT: 7.571 min Scan# 1545
Delta R.T. 0.016 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 43 Resp: 10763
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.0#

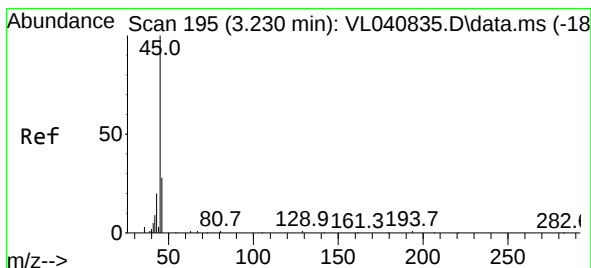
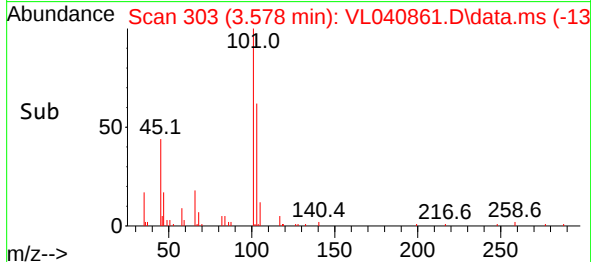
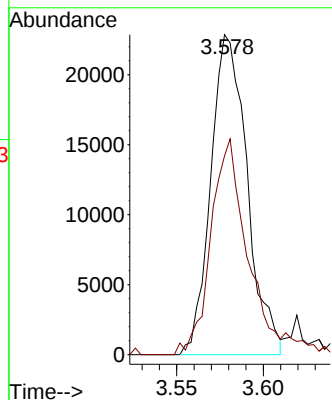
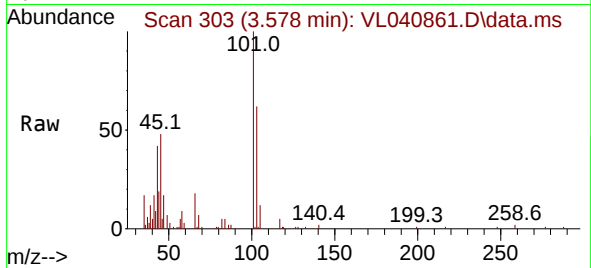




#11
 Trichlorofluoromethane
 Concen: 0.228 ppbv
 RT: 3.578 min Scan# 30
 Delta R.T. 0.029 min
 Lab File: VL040861.D
 Acq: 14 Nov 2023 21:52

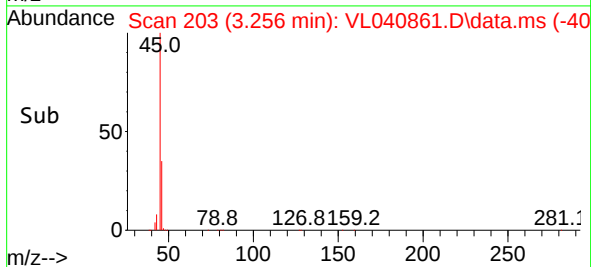
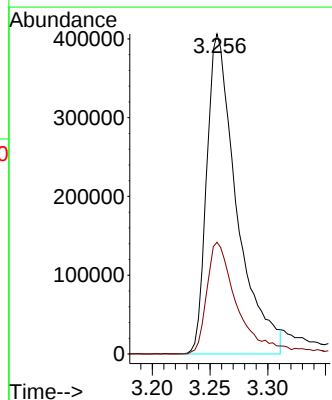
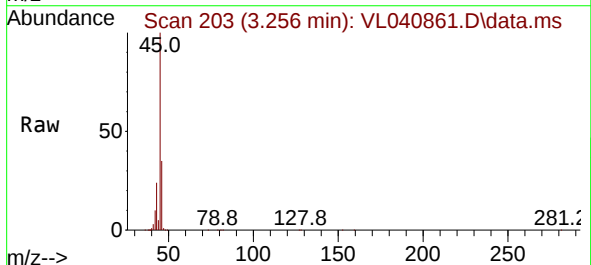
Instrument :
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 ClientSampleId :
 NT-OA-8

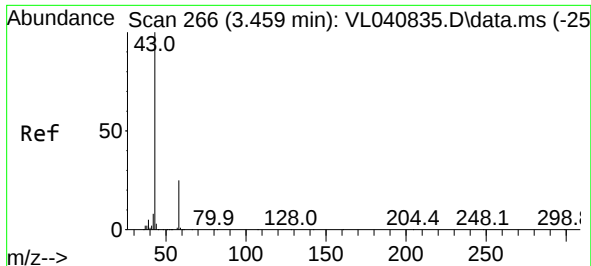
Tgt Ion:101 Resp: 33406
 Ion Ratio Lower Upper
 101 100
 103 58.5 51.8 77.8



#13
 Ethanol
 Concen: 74.585 ppbv
 RT: 3.256 min Scan# 203
 Delta R.T. 0.026 min
 Lab File: VL040861.D
 Acq: 14 Nov 2023 21:52

Tgt Ion: 45 Resp: 731921
 Ion Ratio Lower Upper
 45 100
 46 37.4 0.0 0.0#

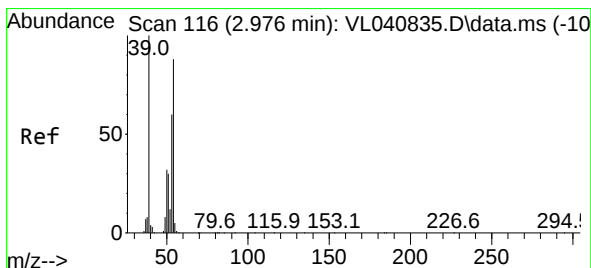
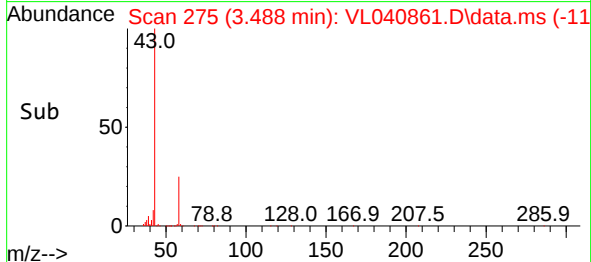
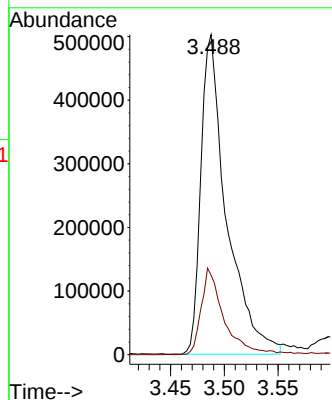
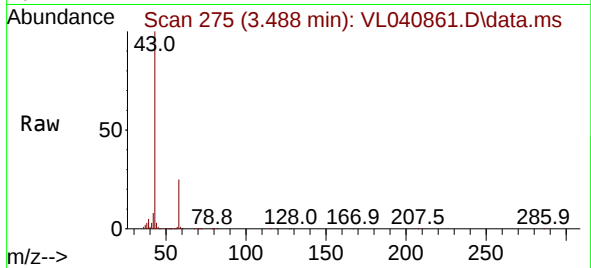




#15
Acetone
Concen: 8.333 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

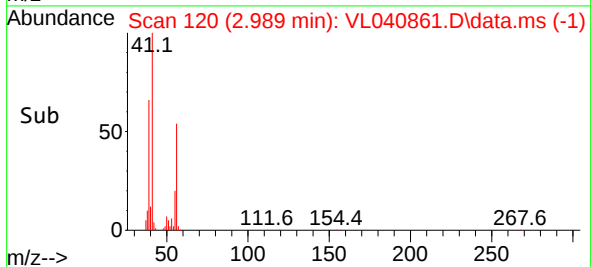
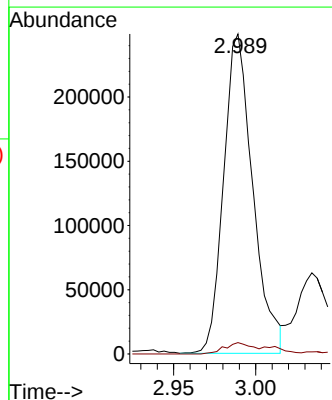
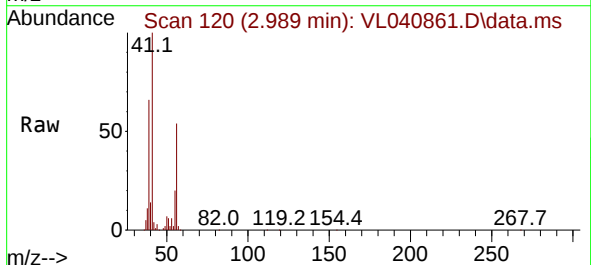
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NT-OA-8

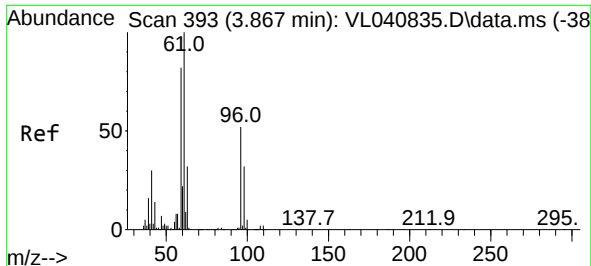
Tgt Ion: 43 Resp: 833606
Ion Ratio Lower Upper
43 100
58 24.5 20.9 31.3



#16
1,3-Butadiene
Concen: 6.071 ppbv
RT: 2.989 min Scan# 120
Delta R.T. 0.013 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 39 Resp: 307218
Ion Ratio Lower Upper
39 100
54 5.7 61.8 92.6#





#17

tert-Butyl alcohol

Concen: 2.073 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.032 min

Lab File: VL040861.D

Acq: 14 Nov 2023 21:52

Instrument :

MSVOA_L

ClientSampleId :

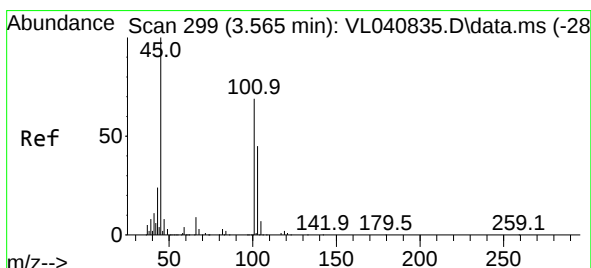
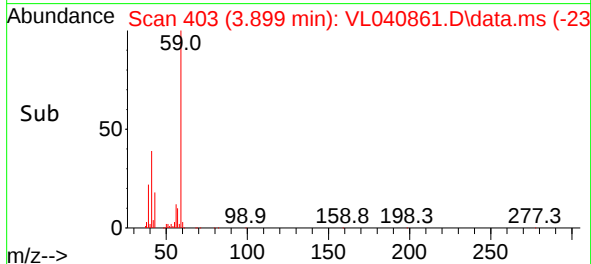
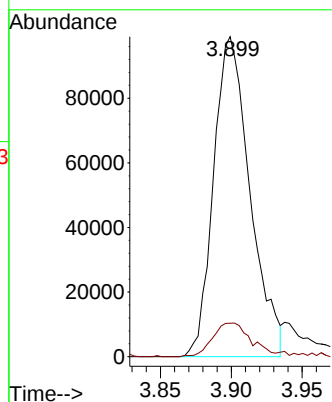
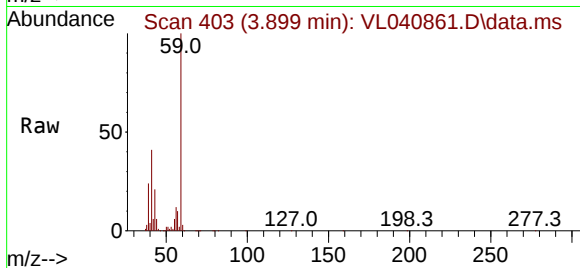
NT-OA-8

Tgt Ion: 59 Resp: 177371

Ion Ratio Lower Upper

59 100

57 12.4 9.0 13.4



#19

Isopropyl Alcohol

Concen: 2.700 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.032 min

Lab File: VL040861.D

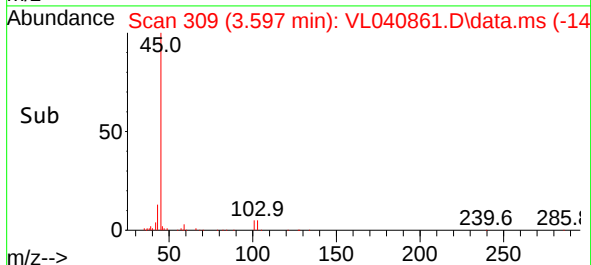
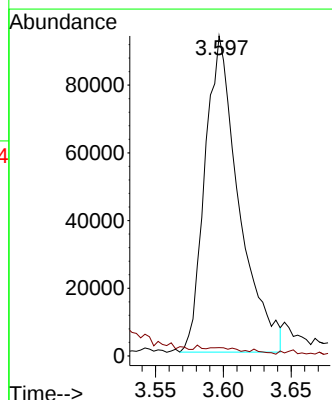
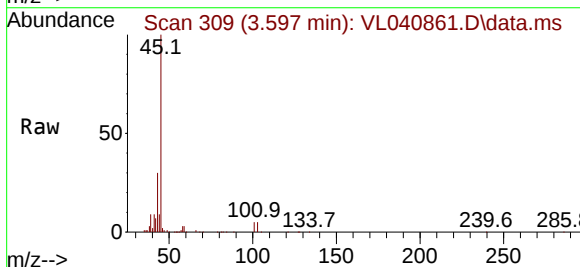
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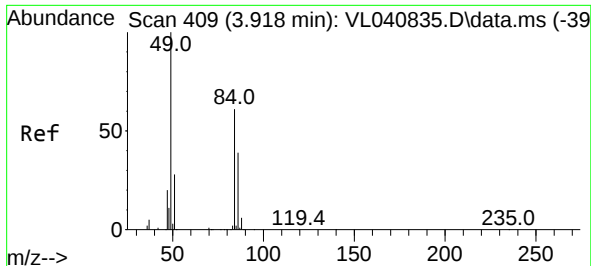
Tgt Ion: 45 Resp: 162554

Ion Ratio Lower Upper

45 100

58 3.8 1.6 2.4#

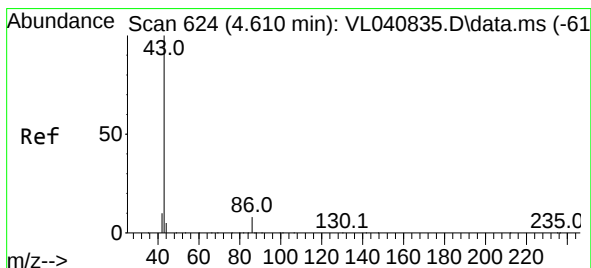
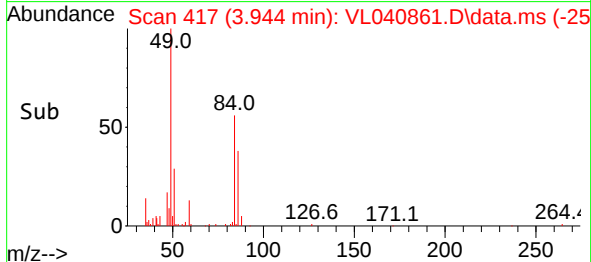
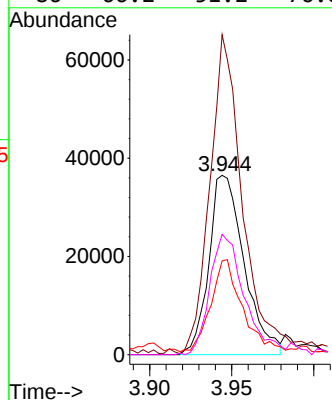
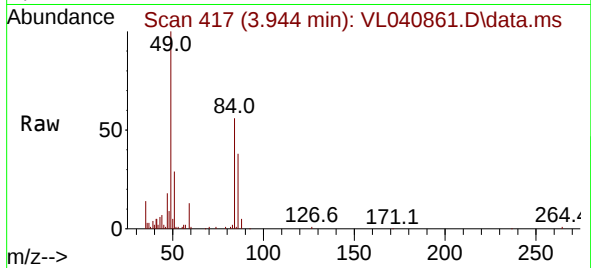




#20
Methylene Chloride
Concen: 1.323 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

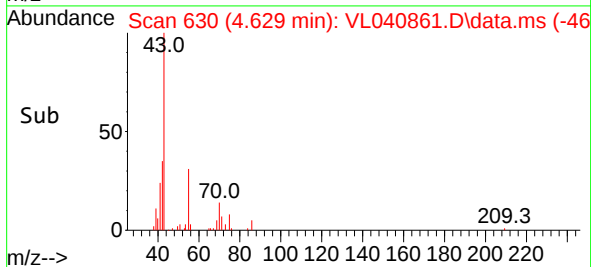
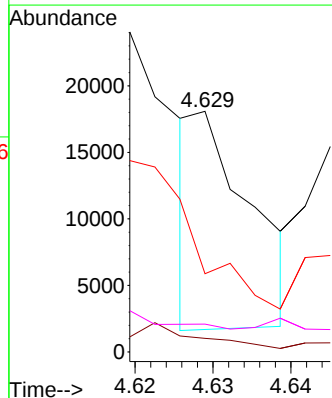
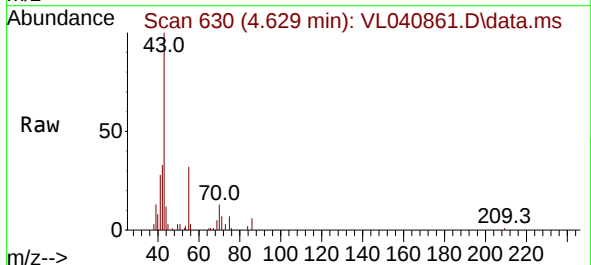
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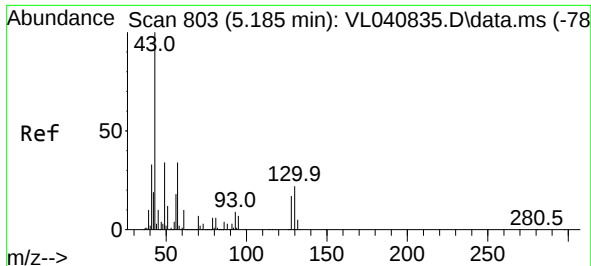
Tgt Ion:	84	Resp:	54596
Ion	Ratio	Lower	Upper
84	100		
49	177.9	131.0	196.4
51	51.8	36.9	55.3
86	66.2	51.2	76.8



#23
Vinyl Acetate
Concen: 0.064 ppbv
RT: 4.629 min Scan# 630
Delta R.T. 0.019 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion:	43	Resp:	8330
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.5	8.3#
42	29.4	8.2	12.2#
44	0.2	4.1	6.1#

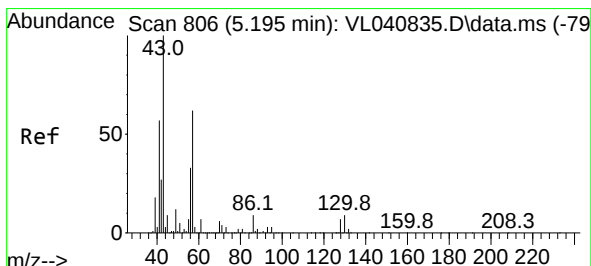
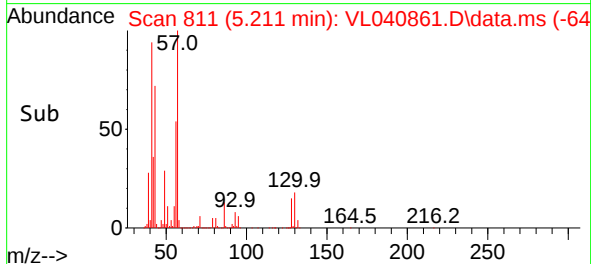
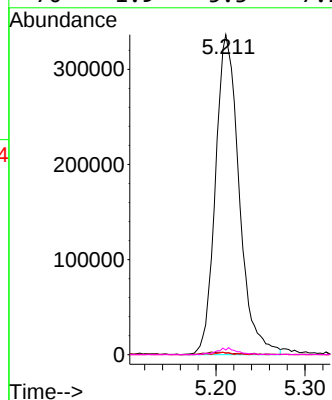
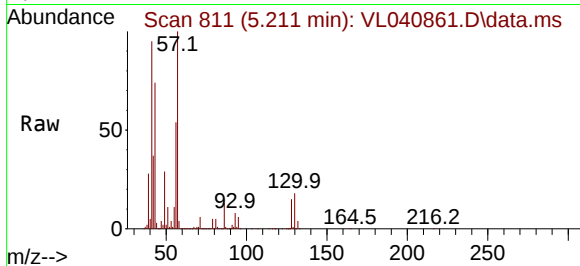




#25
Ethyl Acetate
Concen: 3.007 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

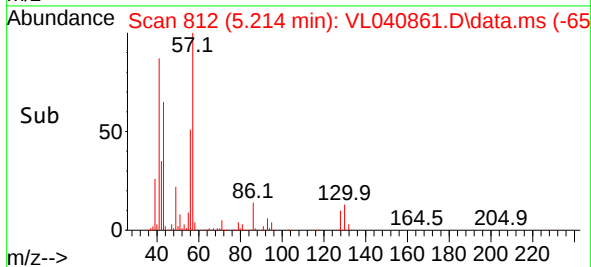
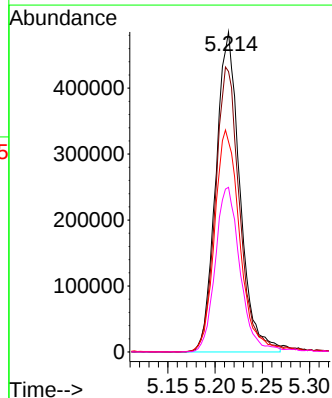
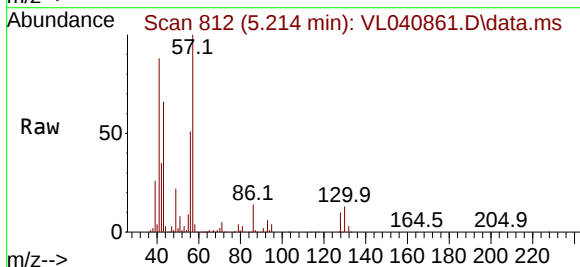
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

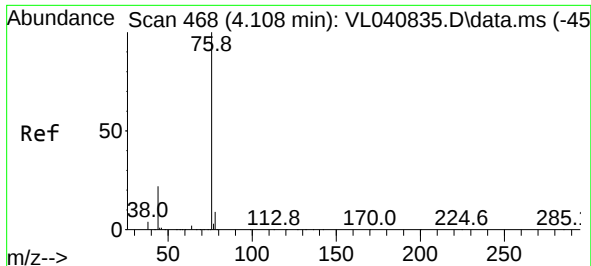
Tgt Ion: 43 Resp: 622825
Ion Ratio Lower Upper
43 100
45 1.0 8.1 12.1#
61 0.6 7.8 11.6#
70 1.9 5.3 7.9#



#26
Hexane
Concen: 9.368 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.019 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 57 Resp: 858784
Ion Ratio Lower Upper
57 100
41 91.2 75.4 113.0
43 73.4 185.9 278.9#
56 53.9 42.6 63.8

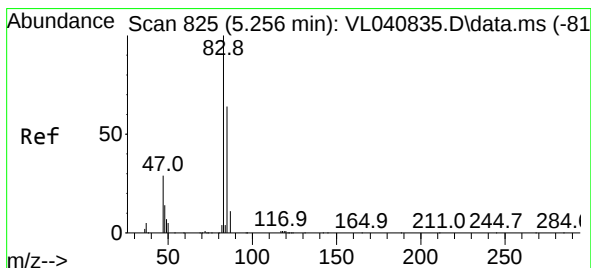
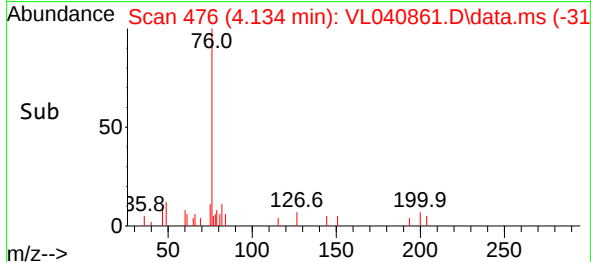
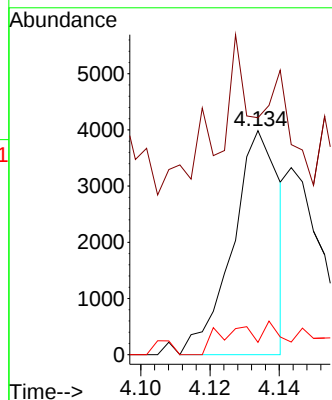
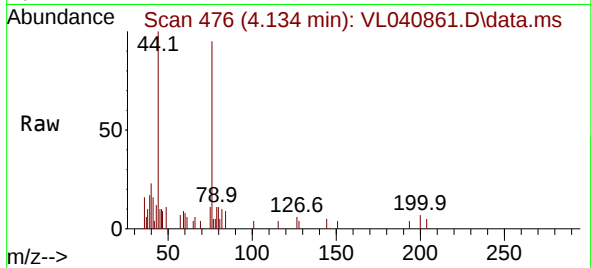




#27
Carbon Disulfide
Concen: 0.032 ppbv
RT: 4.134 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

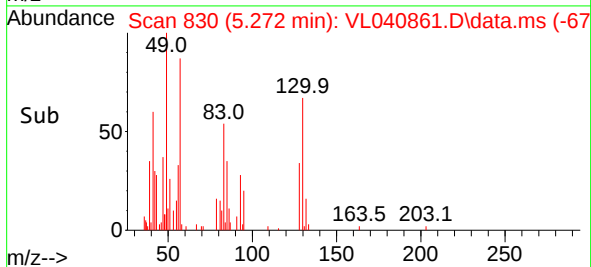
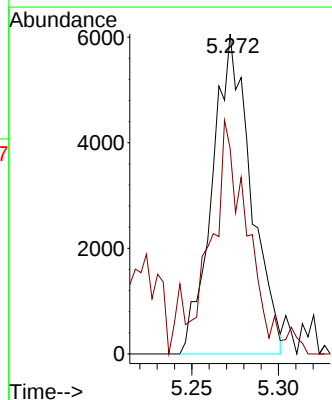
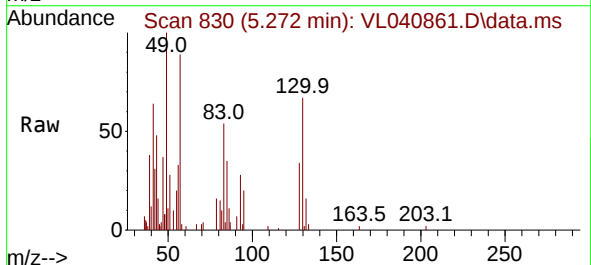
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

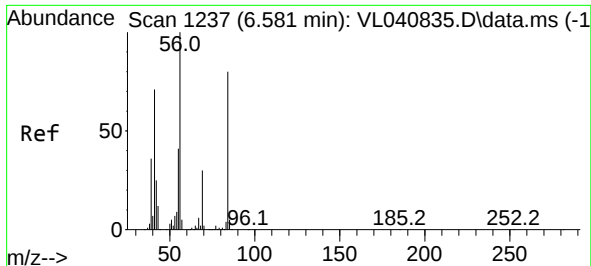
Tgt Ion: 76 Resp: 3691
Ion Ratio Lower Upper
76 100
44 171.7 16.7 25.1#
78 28.7 7.6 11.4#



#29
Chloroform
Concen: 0.061 ppbv
RT: 5.272 min Scan# 830
Delta R.T. 0.016 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 83 Resp: 9408
Ion Ratio Lower Upper
83 100
85 64.1 51.4 77.0

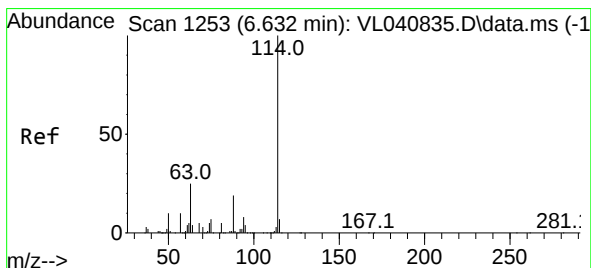
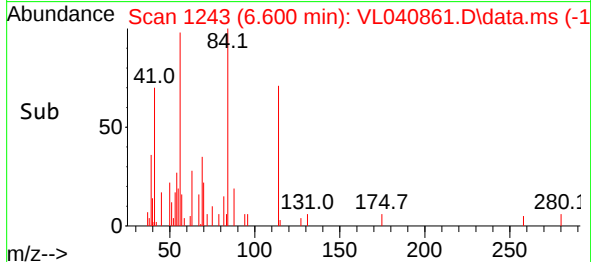
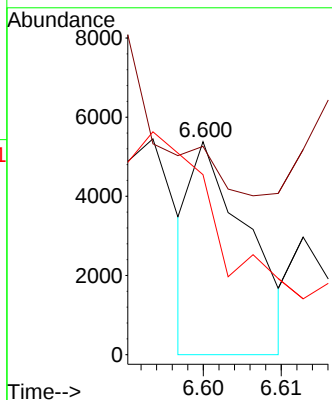
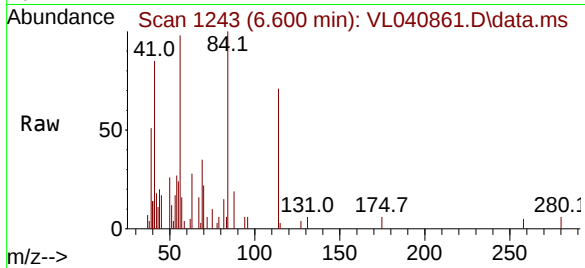




#30
Cyclohexane
Concen: 0.034 ppbv
RT: 6.600 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

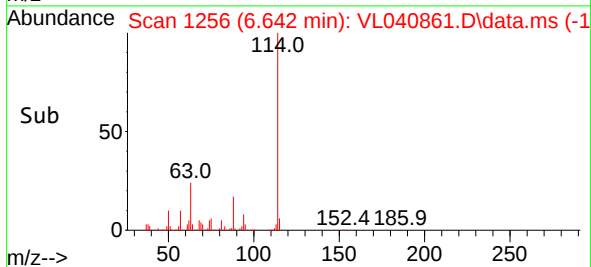
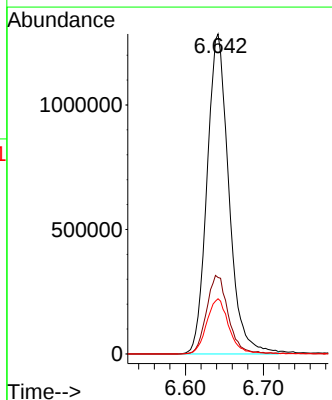
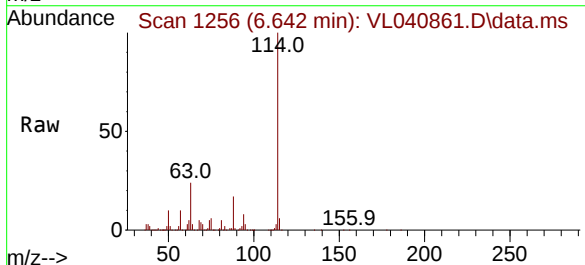
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

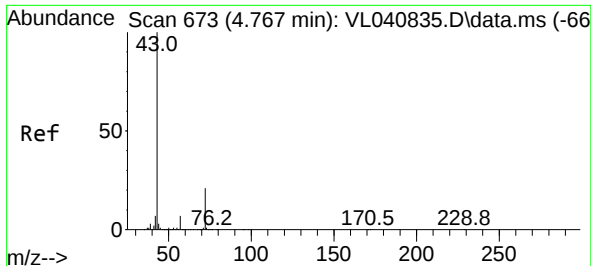
Tgt Ion: 84 Resp: 2664
Ion Ratio Lower Upper
84 100
56 0.0 109.3 163.9#
41 0.0 71.4 107.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.010 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 114 Resp: 2500143
Ion Ratio Lower Upper
114 100
63 24.8 20.9 31.3
88 17.8 14.3 21.5

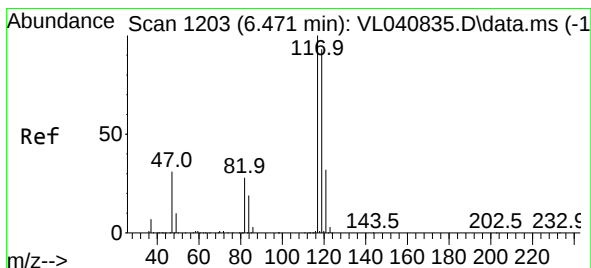
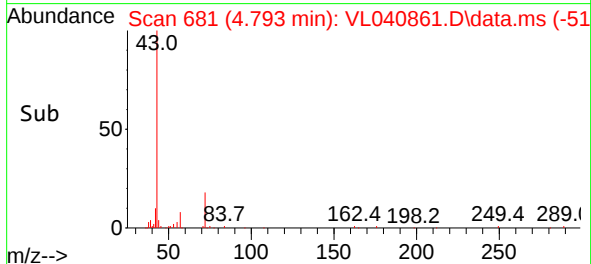
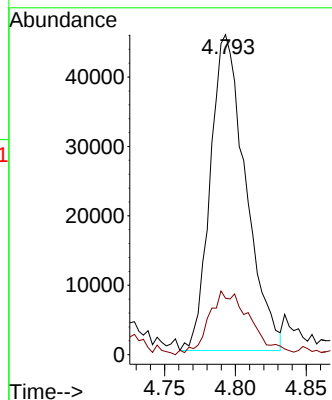
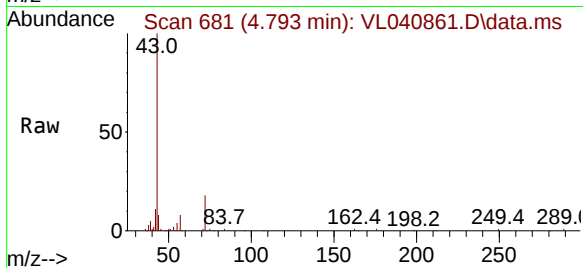




#34
2-Butanone
Concen: 0.620 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

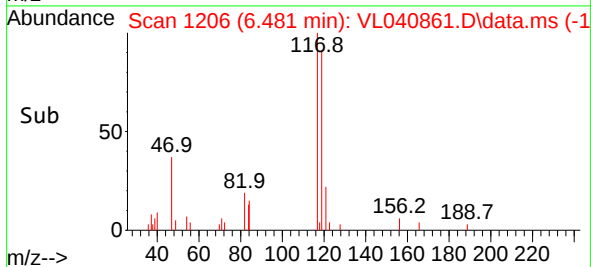
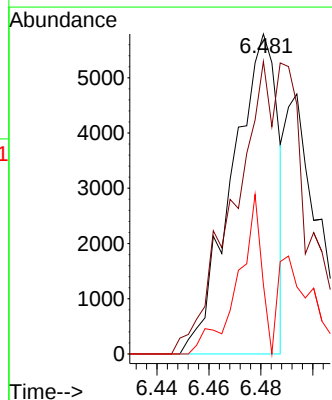
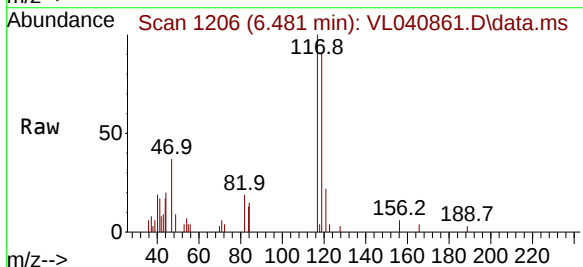
Instrument :
MSVOA_1
ClientSampleId :
NT-OA-8

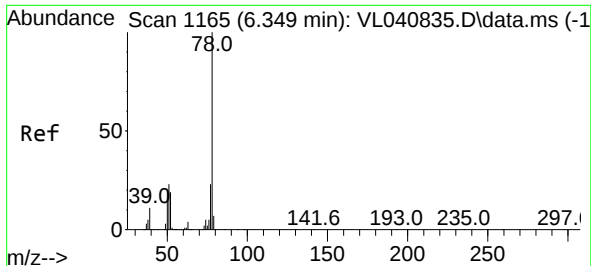
Tgt Ion: 43 Resp: 78960
Ion Ratio Lower Upper
43 100
72 25.1 17.2 25.8



#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 117 Resp: 7111
Ion Ratio Lower Upper
117 100
119 86.5 74.7 112.1
121 21.7 25.5 38.3#





#36

Benzene

Concen: 0.517 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. 0.013 min

Lab File: VL040861.D

Acq: 14 Nov 2023 21:52

Instrument :

MSVOA_L

ClientSampleId :

NT-OA-8

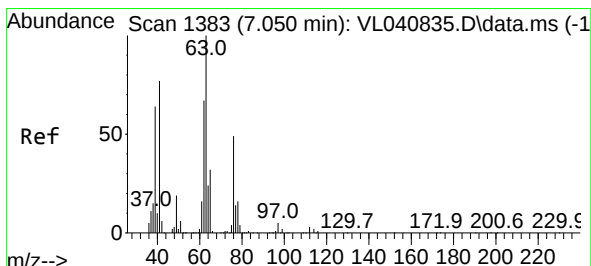
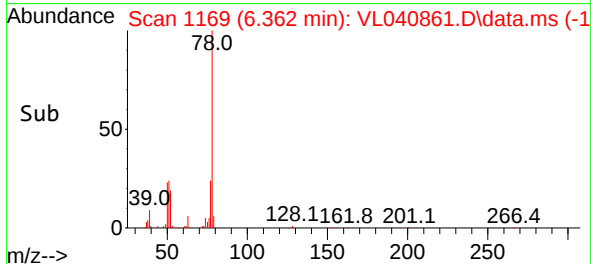
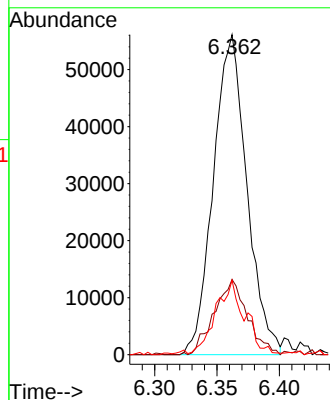
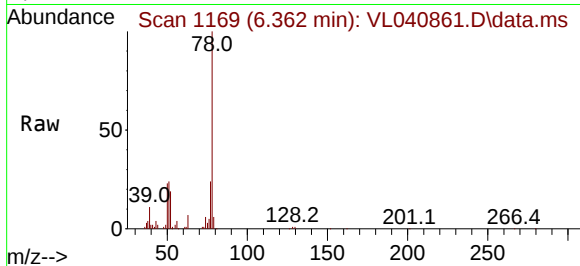
Tgt Ion: 78 Resp: 104980

Ion Ratio Lower Upper

78 100

77 23.5 18.4 27.6

50 22.4 16.2 24.2



#39

1,2-Dichloropropane

Concen: 7.496 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.412 min

Lab File: VL040861.D

Acq: 14 Nov 2023 21:52

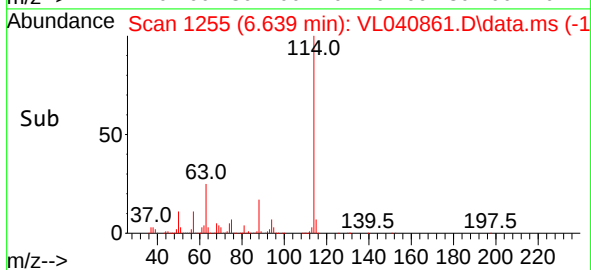
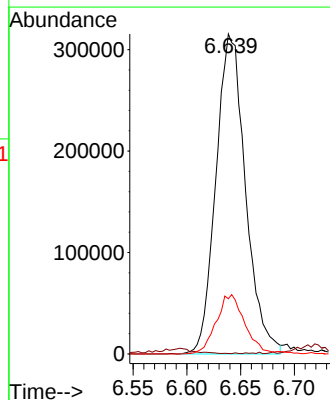
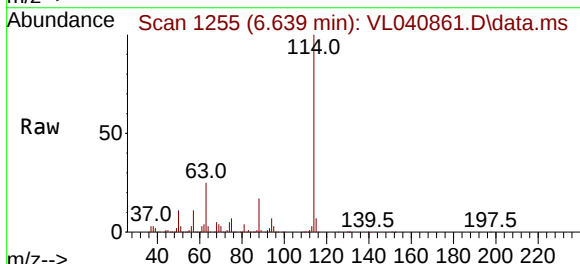
Tgt Ion: 63 Resp: 603110

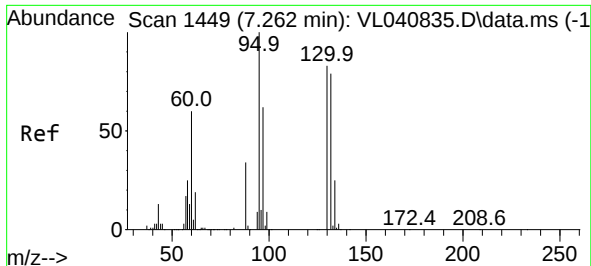
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 17.2 53.9 80.9#

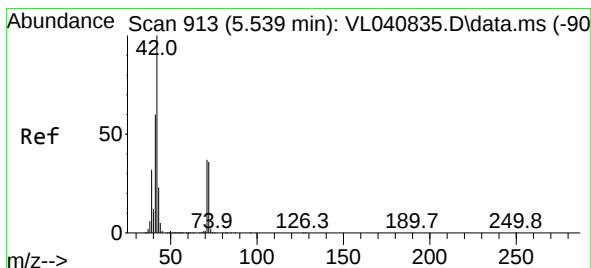
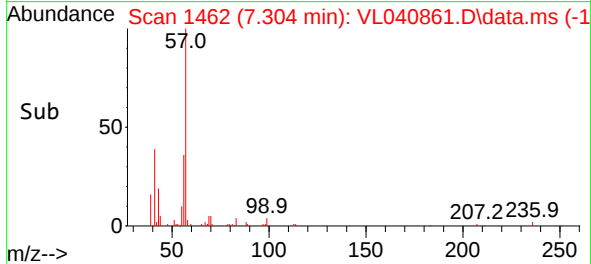
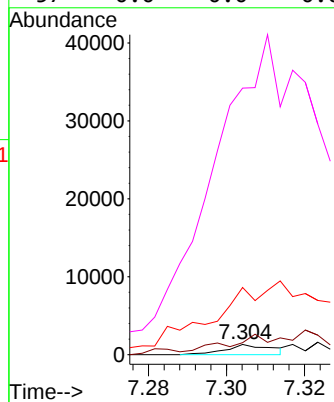
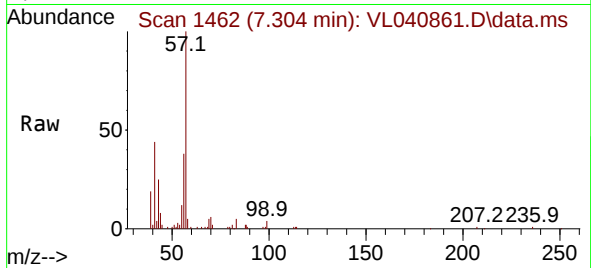




#40
1,4-Dioxane
Concen: 0.034 ppbv
RT: 7.304 min Scan# 1449
Delta R.T. 0.042 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

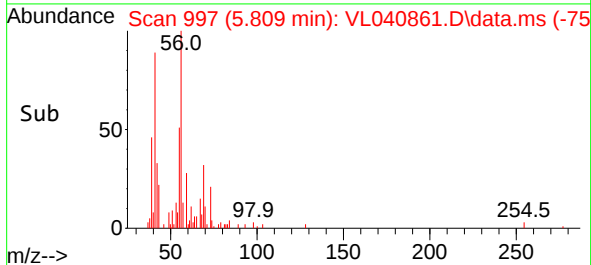
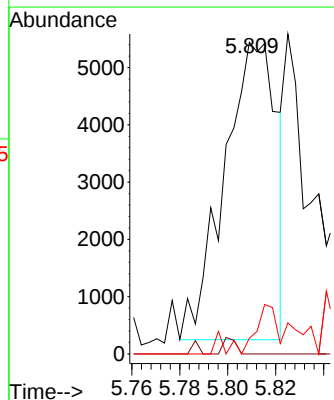
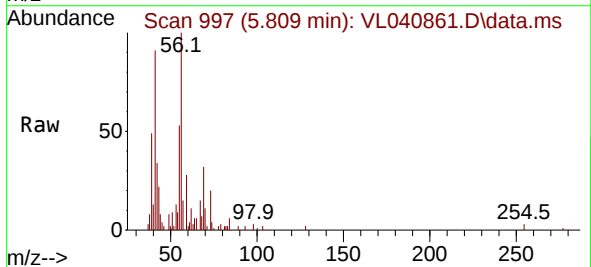
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

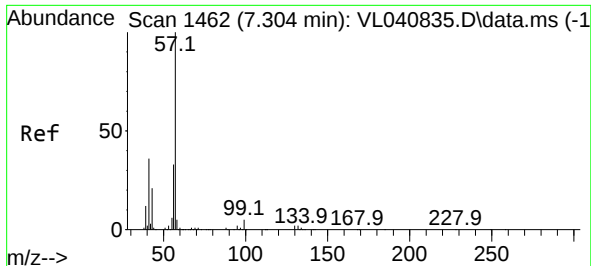
Tgt Ion: 88 Resp: 1071
Ion Ratio Lower Upper
88 100
58 0.0 101.0 151.6#
43 0.0 0.0 0.0
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.101 ppbv
RT: 5.809 min Scan# 997
Delta R.T. 0.270 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 42 Resp: 7897
Ion Ratio Lower Upper
42 100
72 1.8 30.8 46.2#
71 0.0 30.0 45.0#

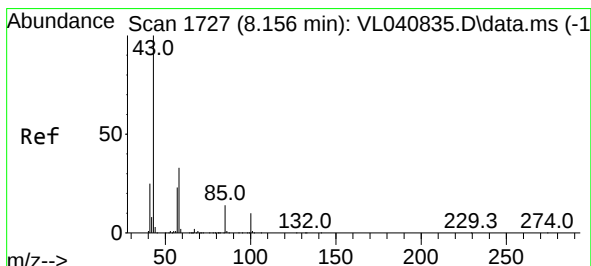
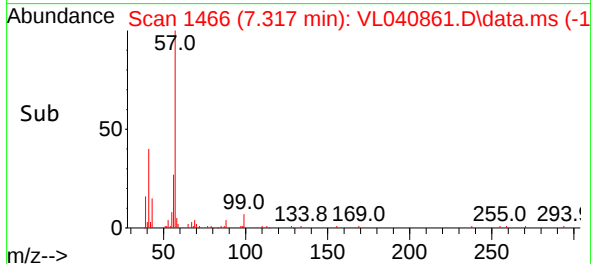
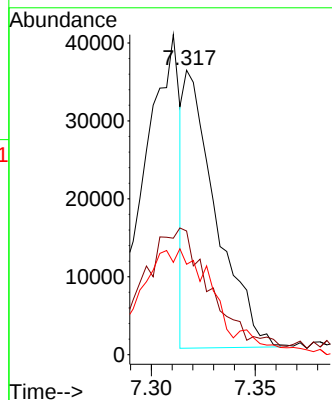
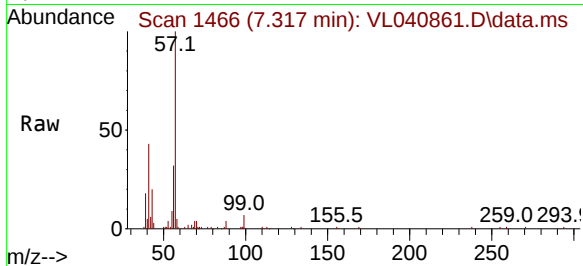




#44
2,2,4-Trimethylpentane
Concen: 0.113 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. 0.013 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

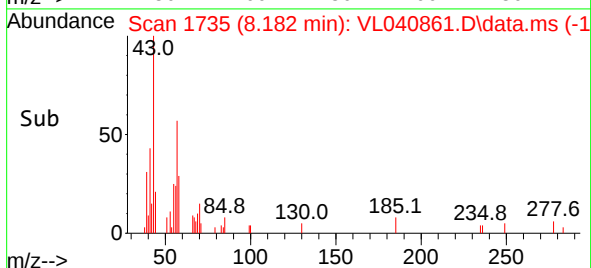
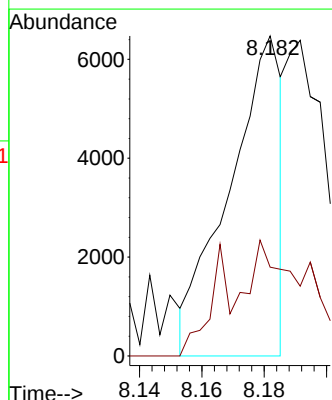
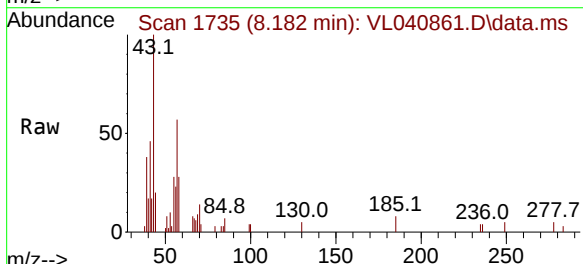
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

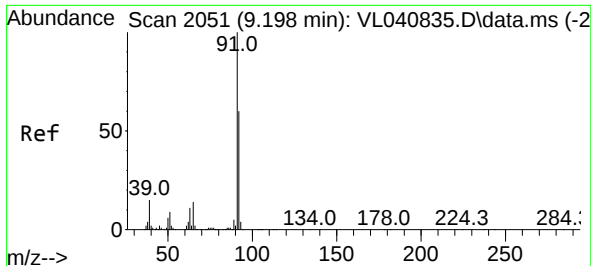
Tgt Ion: 57 Resp: 38230
Ion Ratio Lower Upper
57 100
41 105.2 29.0 43.6#
56 93.6 25.2 37.8#



#50
4-Methyl-2-Pentanone
Concen: 0.038 ppbv
RT: 8.182 min Scan# 1735
Delta R.T. 0.026 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 43 Resp: 7511
Ion Ratio Lower Upper
43 100
58 75.9 27.8 41.6#

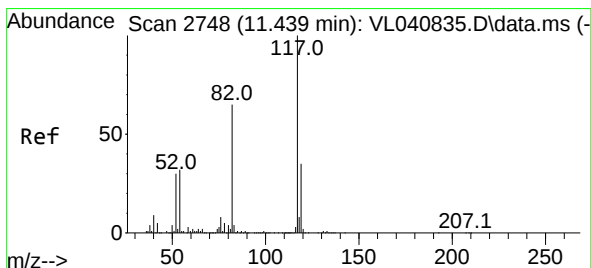
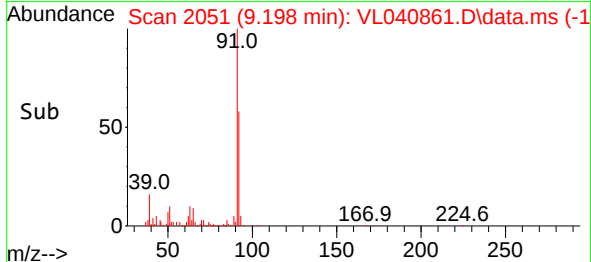
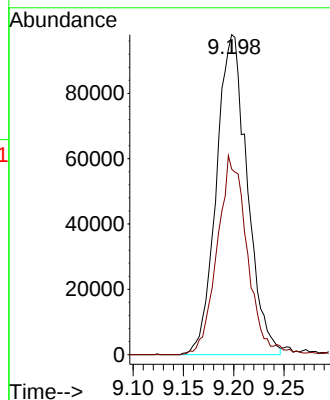
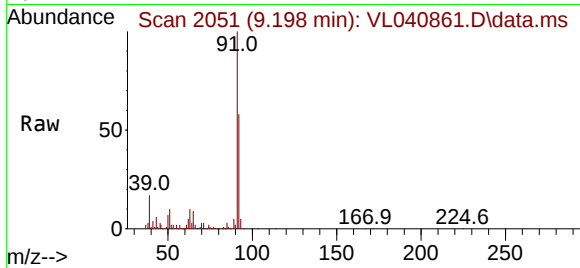




#53
Toluene
Concen: 0.936 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. -0.000 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

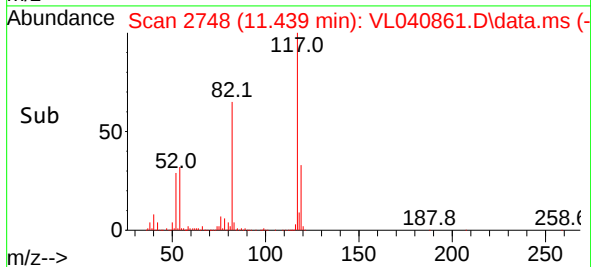
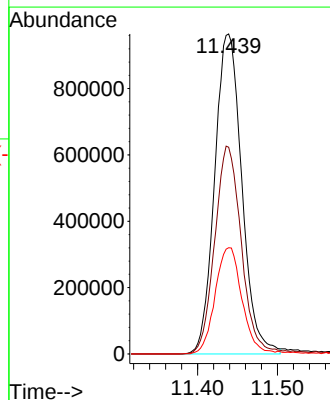
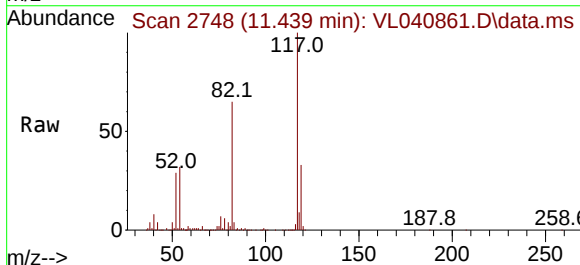
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

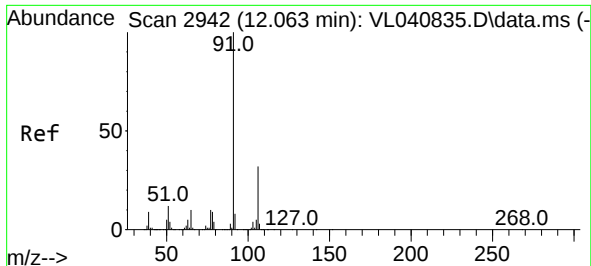
Tgt Ion: 91 Resp: 208976
Ion Ratio Lower Upper
91 100
92 60.9 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.000 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 117 Resp: 2272848
Ion Ratio Lower Upper
117 100
82 64.2 50.6 75.8
119 33.2 23.3 34.9

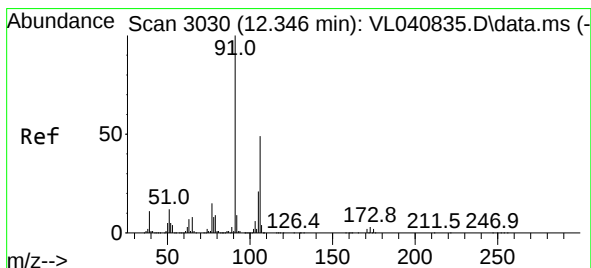
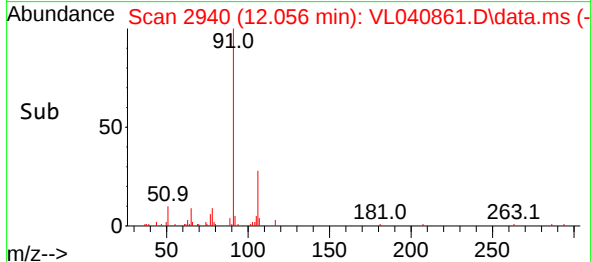
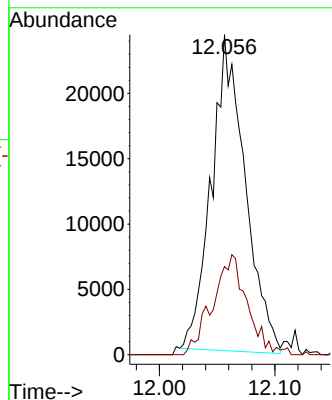
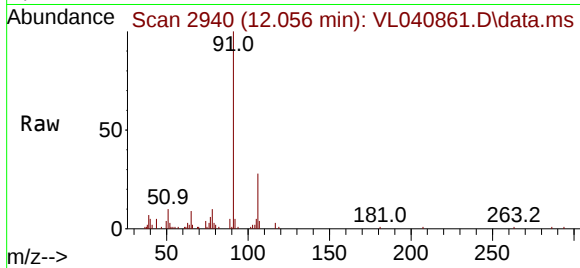




#58
Ethyl Benzene
Concen: 0.165 ppbv
RT: 12.056 min Scan# 2940
Delta R.T. -0.007 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

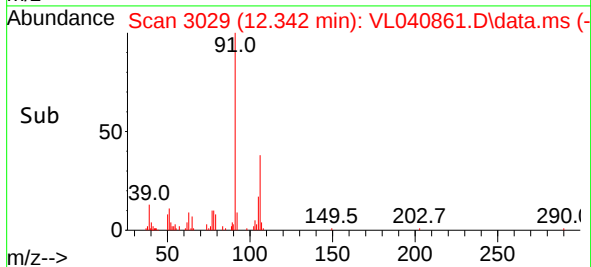
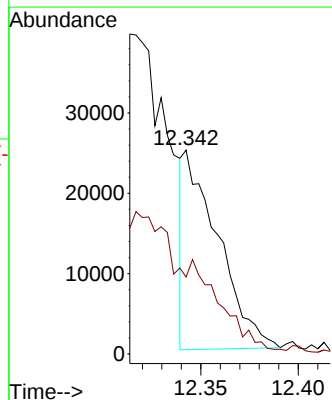
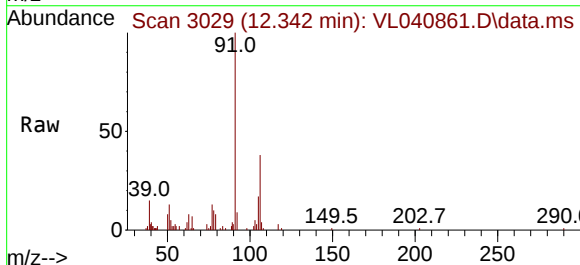
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

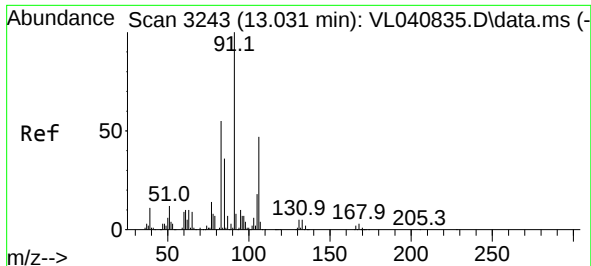
Tgt Ion: 91 Resp: 49034
Ion Ratio Lower Upper
91 100
106 28.1 25.2 37.8



#59
m/p-Xylene
Concen: 0.120 ppbv
RT: 12.342 min Scan# 3029
Delta R.T. -0.003 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 91 Resp: 30280
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#

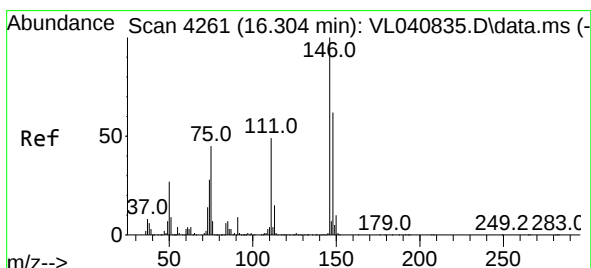
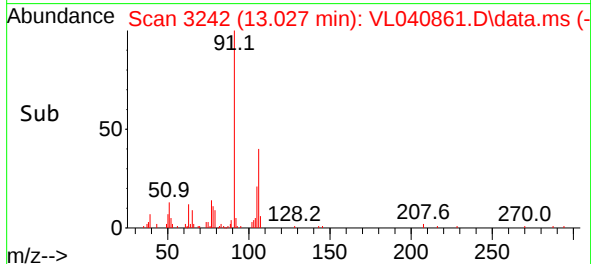
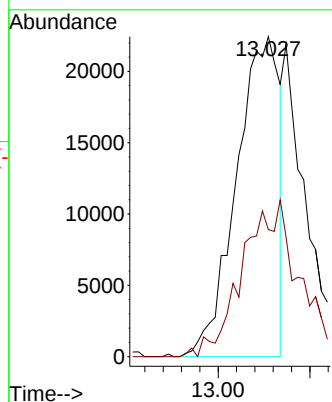
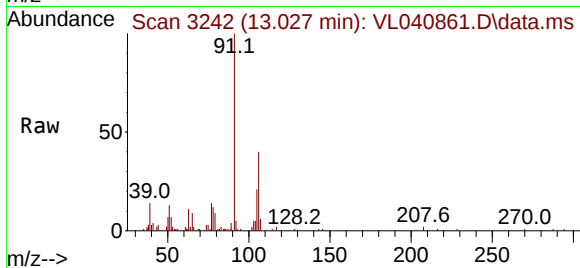




#60
o-Xylene
Concen: 0.151 ppbv
RT: 13.027 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

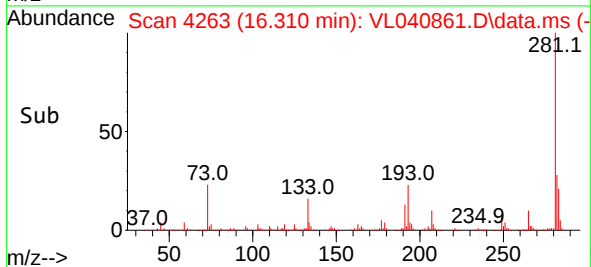
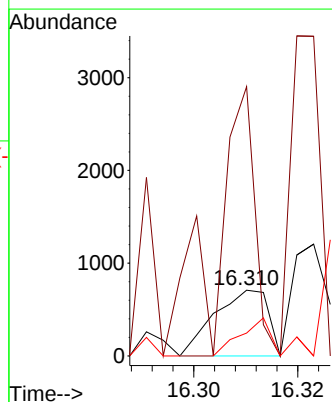
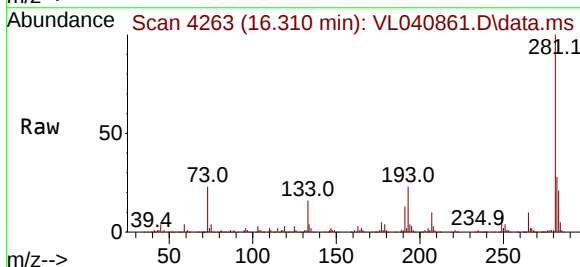
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

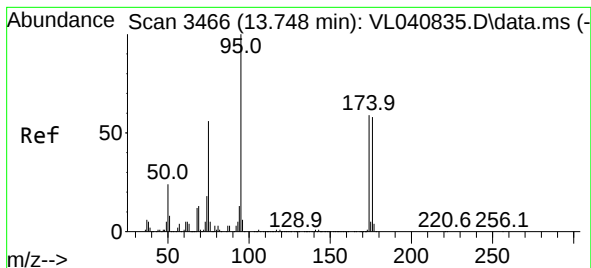
Tgt Ion: 91 Resp: 36358
Ion Ratio Lower Upper
91 100
106 0.0 22.9 68.5#



#66
Benzyl Chloride
Concen: 0.046 ppbv
RT: 16.310 min Scan# 4263
Delta R.T. 0.006 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 91 Resp: 508
Ion Ratio Lower Upper
91 100
126 0.0 12.8 19.2#
128 0.0 0.0 0.0

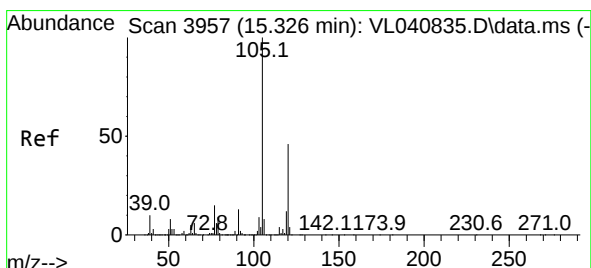
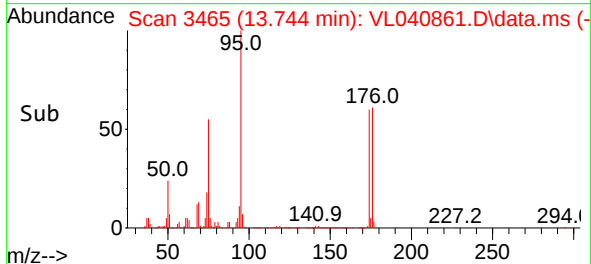
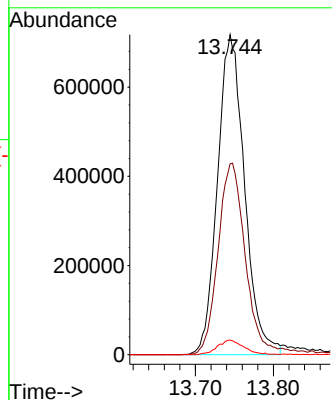
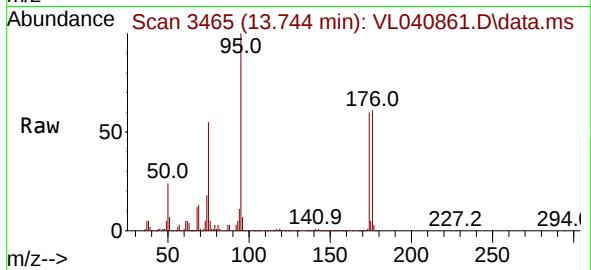




#68
1-Bromo-4-Fluorobenzene
Concen: 9.733 ppbv
RT: 13.744 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

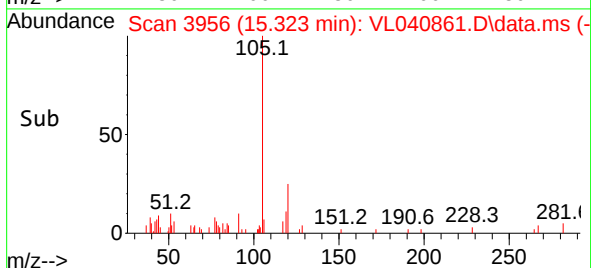
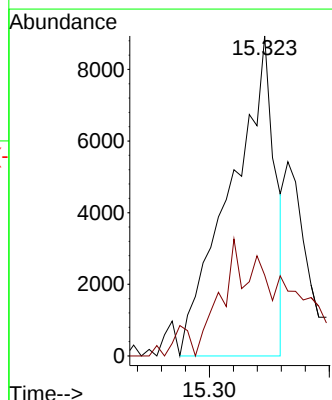
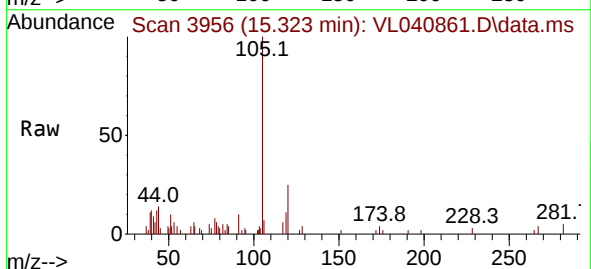
Instrument :
MSVOA_L
ClientSampleId :
NT-OA-8

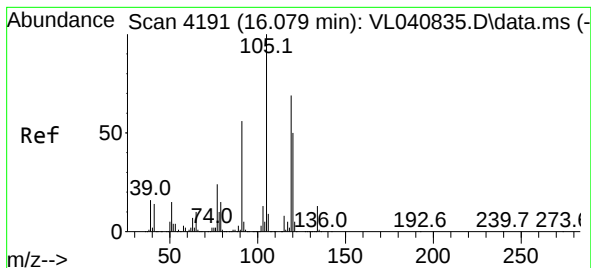
Tgt Ion: 95 Resp: 1731972
Ion Ratio Lower Upper
95 100
174 62.0 47.5 71.3
175 4.6 3.6 5.4



#73
1,3,5-Trimethylbenzene
Concen: 0.049 ppbv
RT: 15.323 min Scan# 3956
Delta R.T. -0.003 min
Lab File: VL040861.D
Acq: 14 Nov 2023 21:52

Tgt Ion: 105 Resp: 11394
Ion Ratio Lower Upper
105 100
120 15.7 36.8 55.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.055 ppbv

RT: 16.079 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL040861.D

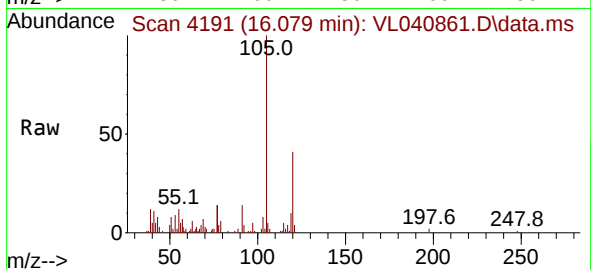
Acq: 14 Nov 2023 21:52

Instrument :

MSVOA_L

ClientSampleId :

NT-OA-8



Tgt Ion:105 Resp: 14441

Ion Ratio Lower Upper

105 100

120 19.1 40.2 60.2#

91 11.6 45.7 68.5#

77 60.2 19.2 28.8#

