

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040825.D
 Acq On : 9 Nov 2023 00:37
 Operator : SY/MD
 Sample : 05275-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-3

Quant Time: Nov 09 02:15:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

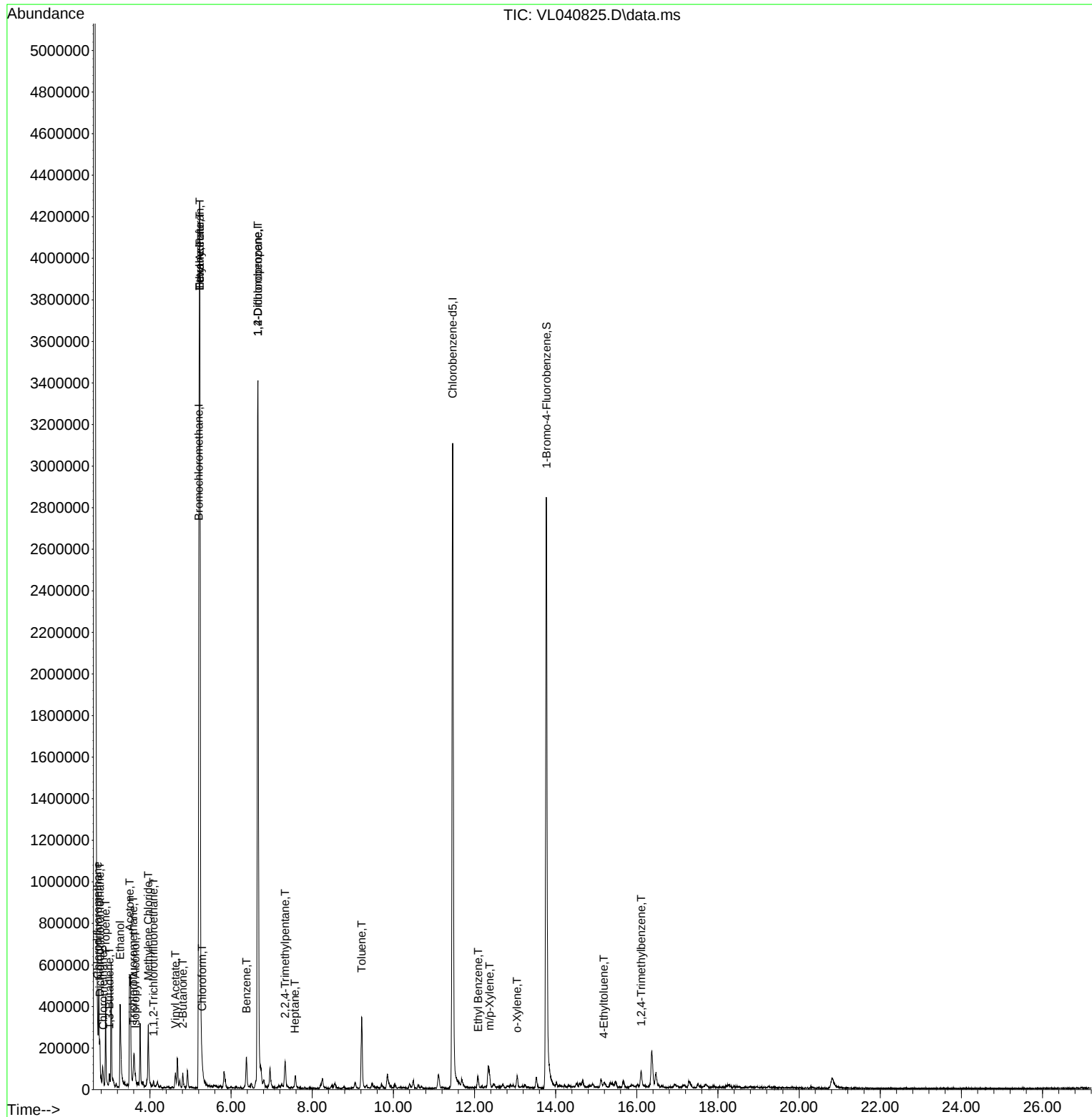
Internal Standards						
1) Bromochloromethane	5.205	49	1040535	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2667854	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2102289	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1512858	9.780	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.767	85	105183	0.574	ppbv	97
3) Chlorodifluoromethane	2.713	51	101751	0.665	ppbv #	87
4) Chloromethane	2.848	50	28895	0.479	ppbv #	88
9) Propene	2.906	41	101789	1.792	ppbv	97
10) Heptane	7.574	43	18152	0.127	ppbv #	60
11) Trichlorofluoromethane	3.587	101	37445	0.265	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.089	101	5310	0.053	ppbv #	40
13) Ethanol	3.266	45	449568	35.063	ppbv	99
15) Acetone	3.501	43	642607	5.974	ppbv	95
16) 1,3-Butadiene	3.002	39	17299	0.307	ppbv #	53
19) Isopropyl Alcohol	3.642	45	12246	0.177	ppbv #	37
20) Methylene Chloride	3.957	84	93875	2.095	ppbv	98
23) Vinyl Acetate	4.629	43	29160	0.213	ppbv #	1
25) Ethyl Acetate	5.227	43	1109192	4.706	ppbv #	77
26) Hexane	5.227	57	1568229	14.559	ppbv #	41
29) Chloroform	5.285	83	5818	0.037	ppbv #	82
34) 2-Butanone	4.809	43	75236	0.623	ppbv	92
36) Benzene	6.381	78	113426	0.553	ppbv	97
39) 1,2-Dichloropropane	6.661	63	648093	8.084	ppbv #	26
41) Tetrahydrofuran	5.227	42	584024	6.984	ppbv #	50
44) 2,2,4-Trimethylpentane	7.330	57	110867	0.319	ppbv #	81
53) Toluene	9.217	91	242424	0.993	ppbv	100
58) Ethyl Benzene	12.085	91	17755	0.067	ppbv	92
59) m/p-Xylene	12.372	91	24064	0.110	ppbv #	30
60) o-Xylene	13.047	91	42477	0.205	ppbv	96
72) 4-Ethyltoluene	15.182	105	8223	0.034	ppbv #	47
74) 1,2,4-Trimethylbenzene	16.108	105	57021	0.244	ppbv #	73

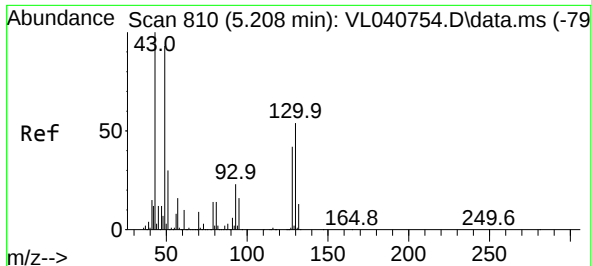
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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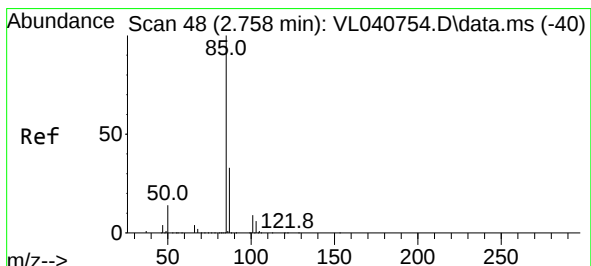
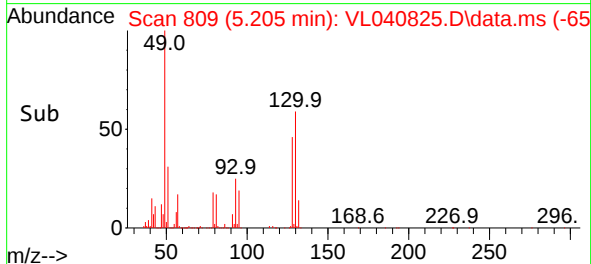
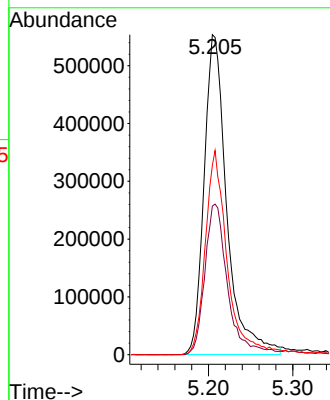
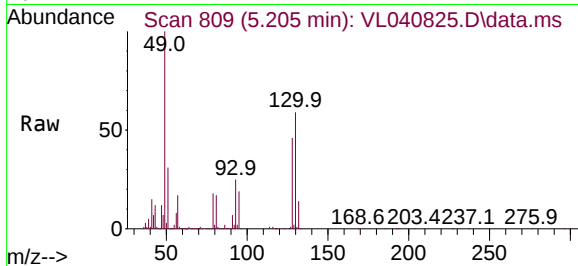




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

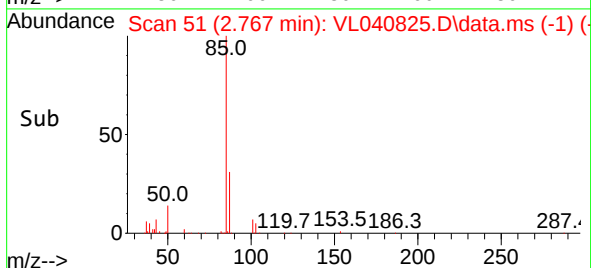
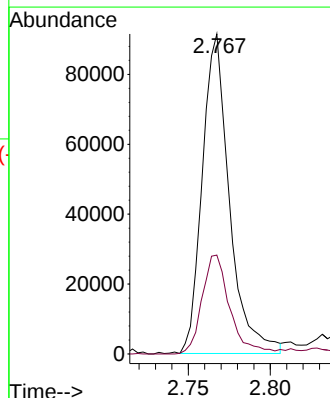
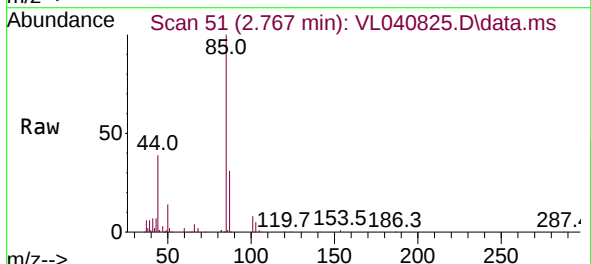
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-3

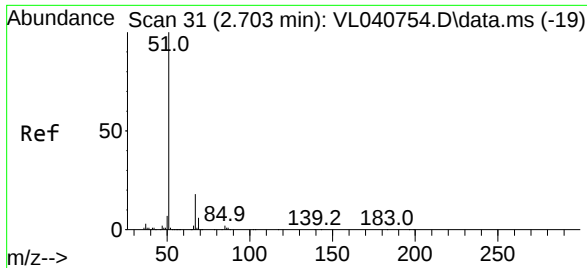
Tgt Ion: 49 Resp: 1040535
 Ion Ratio Lower Upper
 49 100
 128 48.2 23.9 71.7
 130 62.3 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.574 ppbv
 RT: 2.767 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

Tgt Ion: 85 Resp: 105183
 Ion Ratio Lower Upper
 85 100
 87 30.8 26.0 39.0

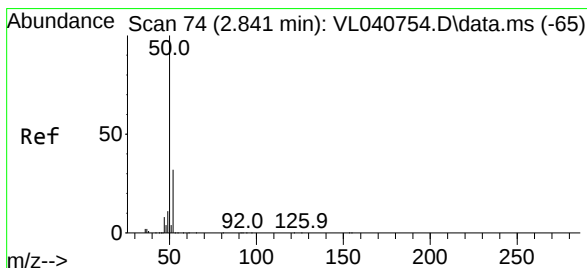
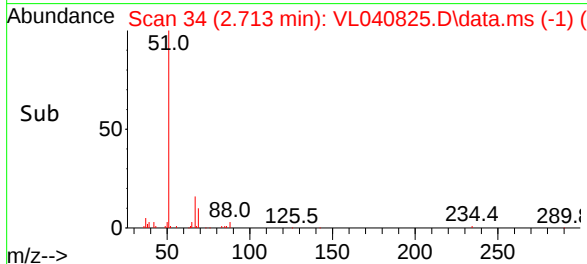
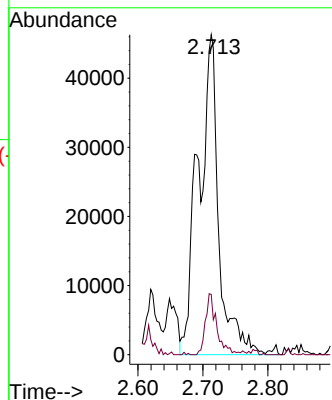
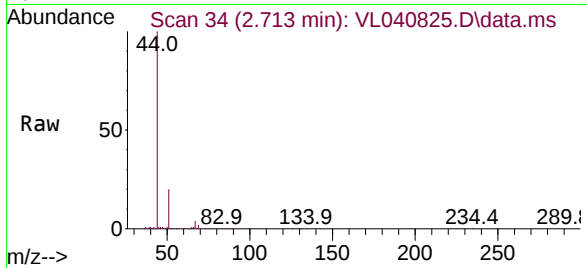




#3
Chlorodifluoromethane
Concen: 0.665 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

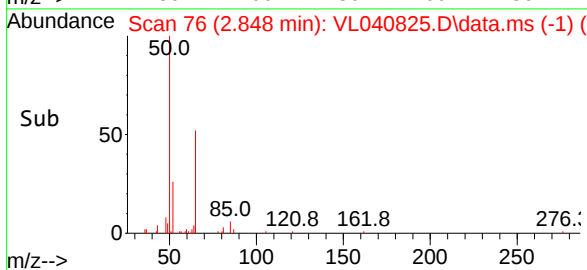
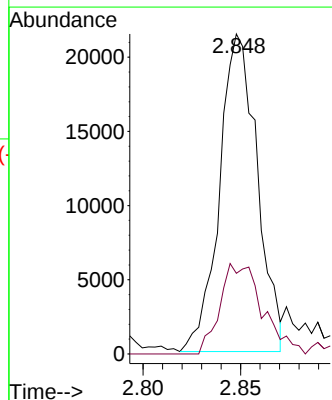
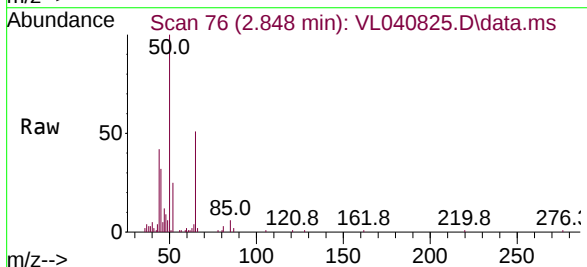
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-3

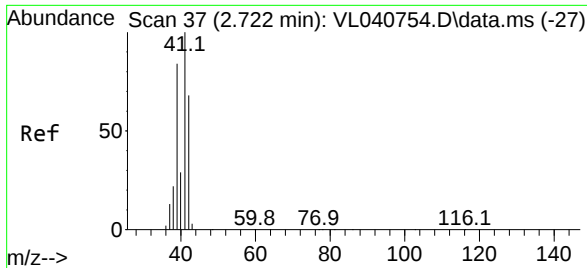
Tgt Ion: 51 Resp: 101751
Ion Ratio Lower Upper
51 100
67 11.4 13.8 20.6#



#4
Chloromethane
Concen: 0.479 ppbv
RT: 2.848 min Scan# 76
Delta R.T. -0.006 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 50 Resp: 28895
Ion Ratio Lower Upper
50 100
52 25.0 25.3 37.9#

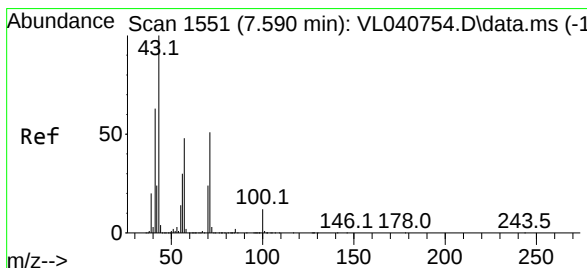
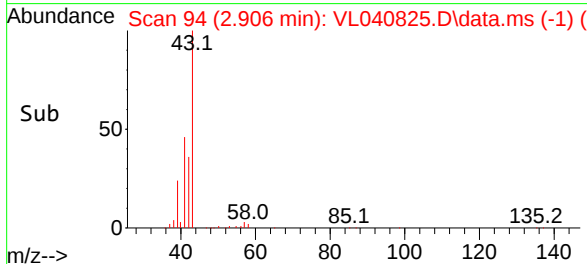
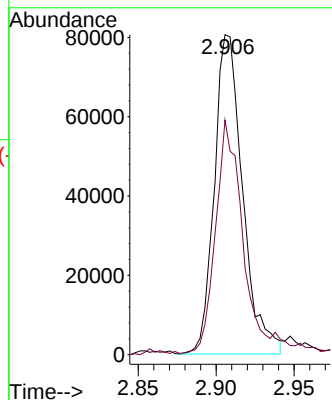
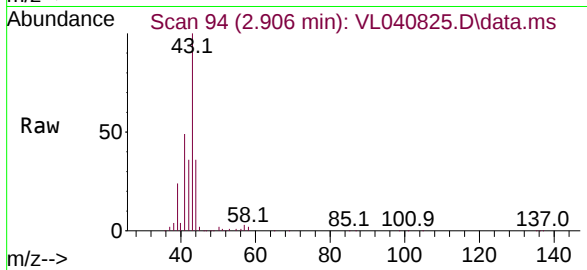




#9
 Propene
 Concen: 1.792 ppbv
 RT: 2.906 min Scan# 94
 Delta R.T. 0.171 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

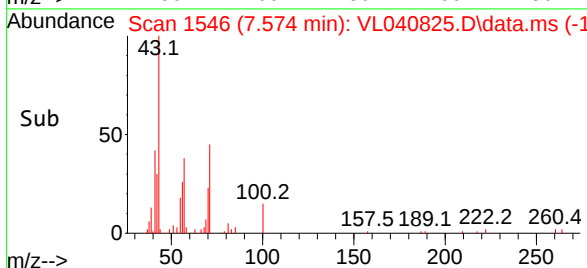
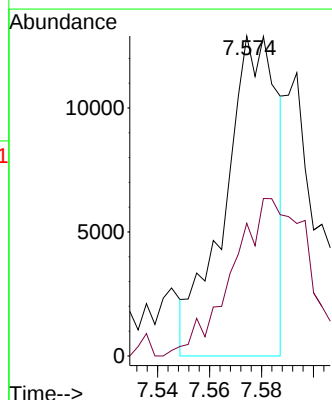
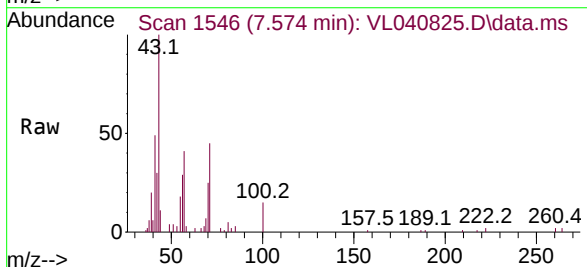
Instrument :
 MSVOA_1
 ClientSampleId :
 NT-IA-3

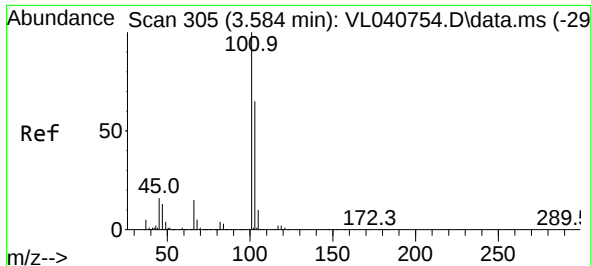
Tgt Ion: 41 Resp: 101789
 Ion Ratio Lower Upper
 41 100
 42 73.6 57.1 85.7



#10
 Heptane
 Concen: 0.127 ppbv
 RT: 7.574 min Scan# 1546
 Delta R.T. -0.013 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

Tgt Ion: 43 Resp: 18152
 Ion Ratio Lower Upper
 43 100
 57 77.5 40.0 60.0#

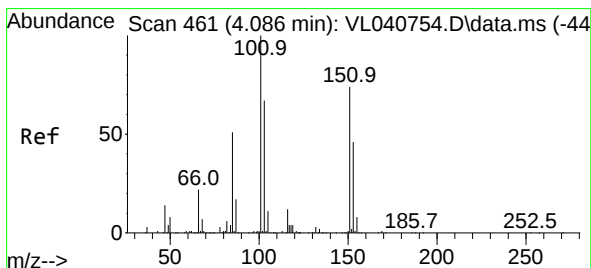
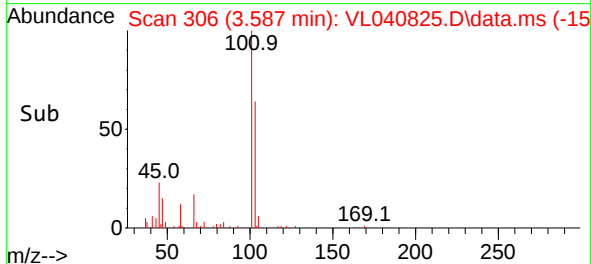
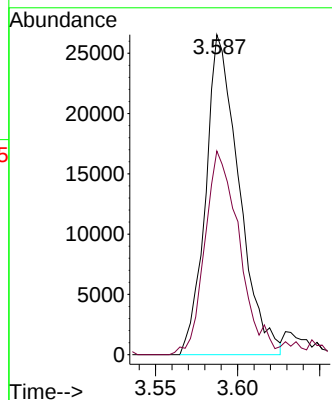
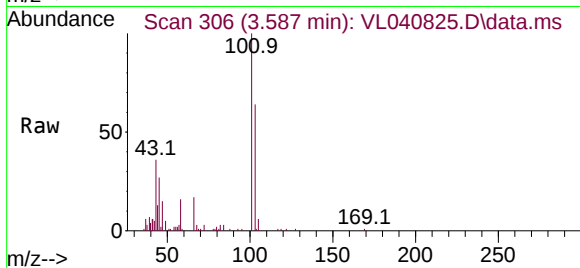




#11
 Trichlorofluoromethane
 Concen: 0.265 ppbv
 RT: 3.587 min Scan# 305
 Delta R.T. -0.006 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

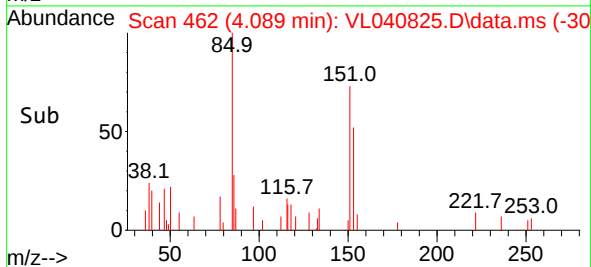
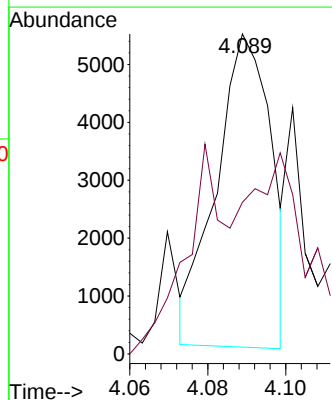
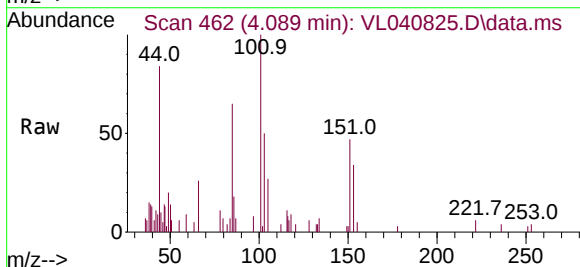
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-3

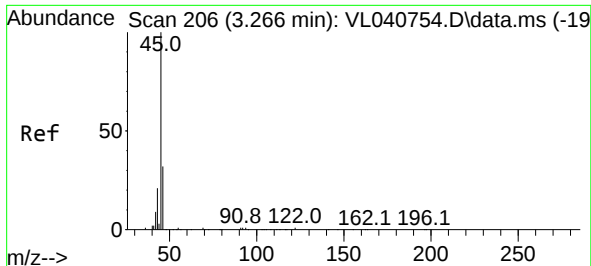
Tgt Ion:101 Resp: 37445
 Ion Ratio Lower Upper
 101 100
 103 62.1 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.053 ppbv
 RT: 4.089 min Scan# 462
 Delta R.T. -0.003 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

Tgt Ion:101 Resp: 5310
 Ion Ratio Lower Upper
 101 100
 151 123.2 58.1 87.1#

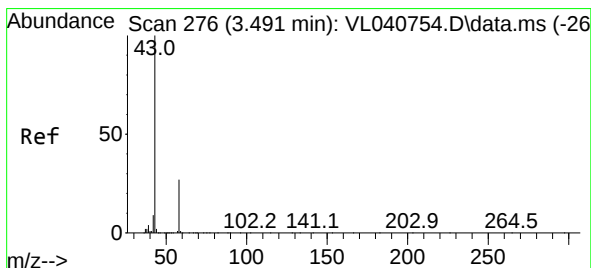
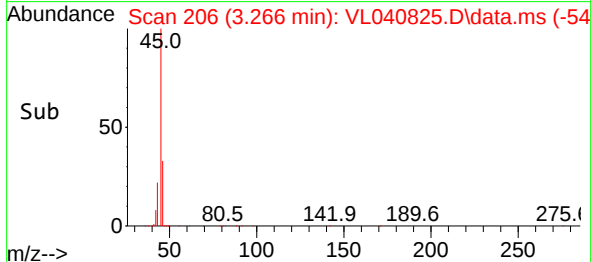
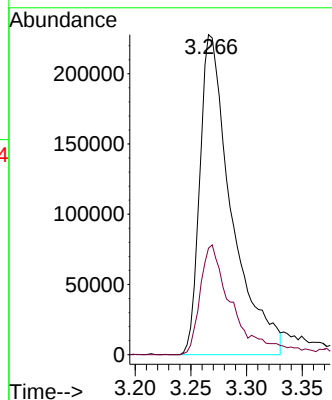
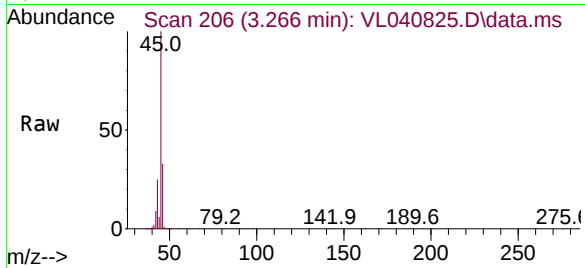




#13
Ethanol
Concen: 35.063 ppbv
RT: 3.266 min Scan# 206
Delta R.T. -0.013 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

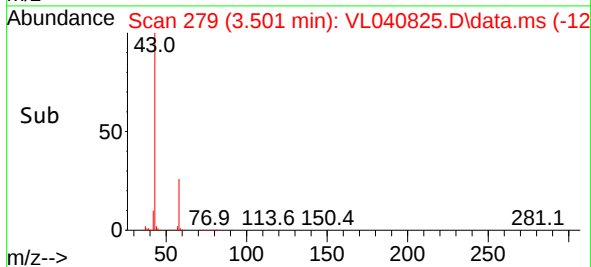
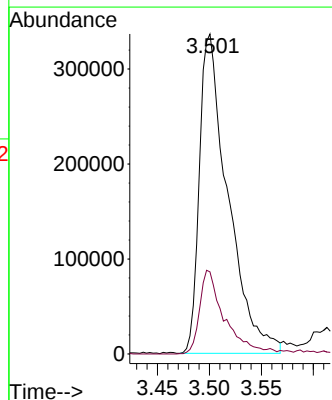
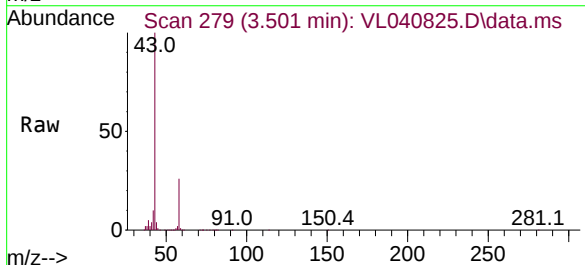
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-3

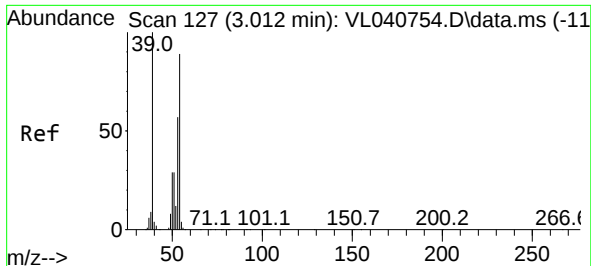
Tgt Ion: 45 Resp: 449568
Ion Ratio Lower Upper
45 100
46 37.0 14.6 58.2



#15
Acetone
Concen: 5.974 ppbv
RT: 3.501 min Scan# 279
Delta R.T. 0.000 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 43 Resp: 642607
Ion Ratio Lower Upper
43 100
58 24.6 21.6 32.4

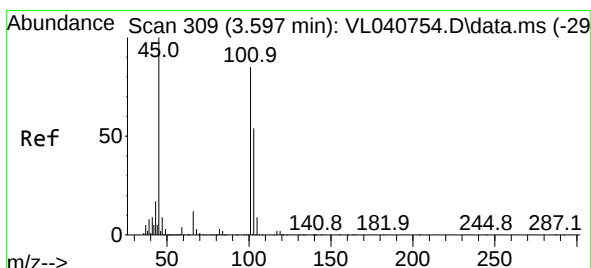
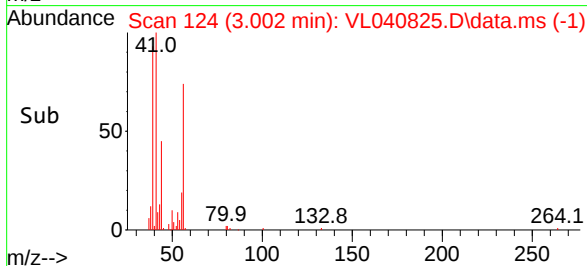
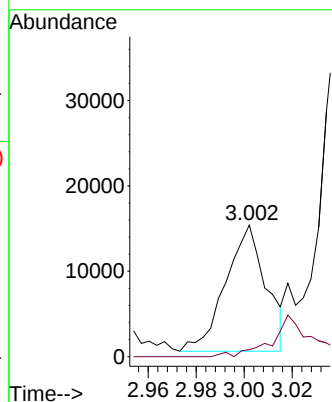
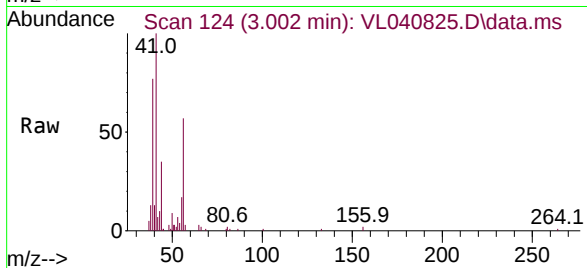




#16
1,3-Butadiene
Concen: 0.307 ppbv
RT: 3.002 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

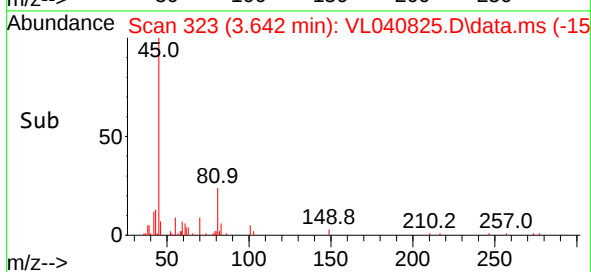
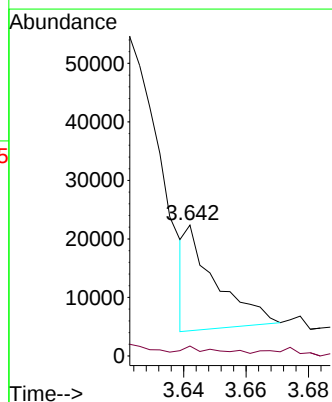
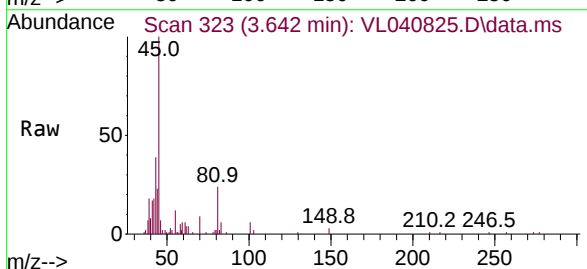
Instrument :
MSVOA_L
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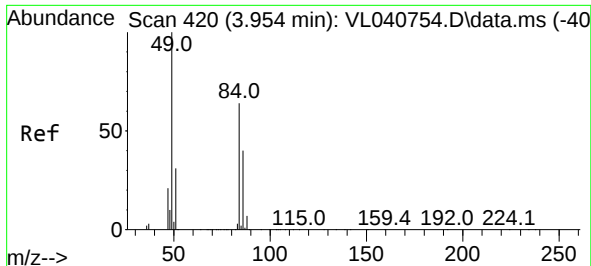
Tgt Ion: 39 Resp: 17299
Ion Ratio Lower Upper
39 100
54 37.5 63.0 94.6#



#19
Isopropyl Alcohol
Concen: 0.177 ppbv
RT: 3.642 min Scan# 323
Delta R.T. 0.035 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 45 Resp: 12246
Ion Ratio Lower Upper
45 100
58 0.0 30.3 45.5#



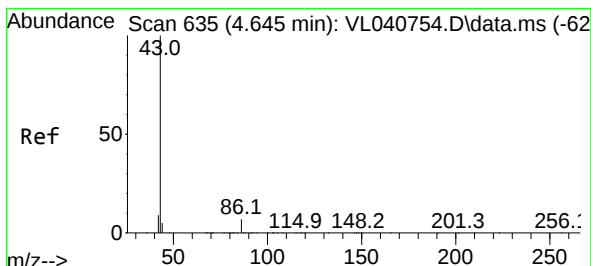
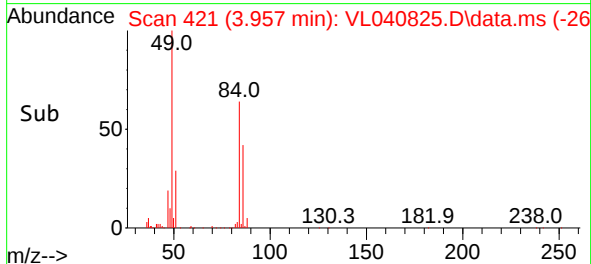
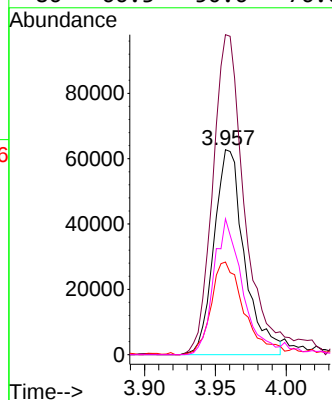
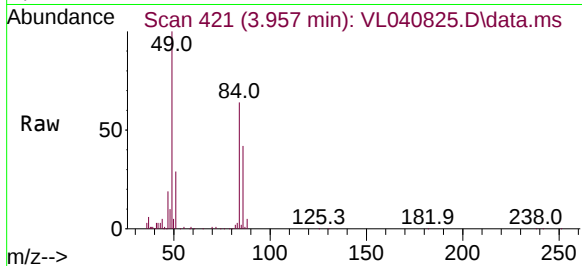


#20
Methylene Chloride
Concen: 2.095 ppbv
RT: 3.957 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-3

Tgt Ion: 84 Resp: 93875

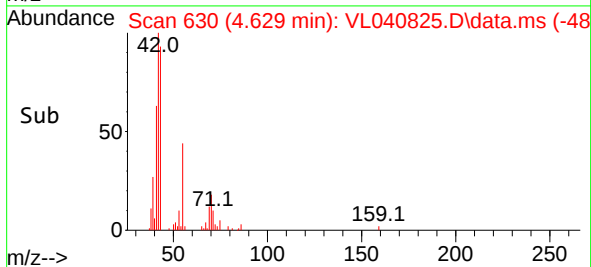
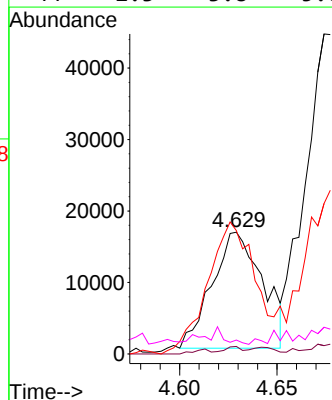
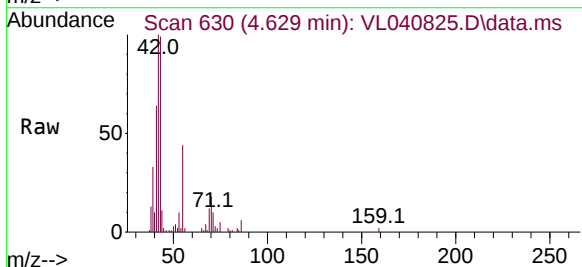
Ion	Ratio	Lower	Upper
84	100		
49	156.1	125.6	188.4
51	45.2	38.9	58.3
86	66.3	50.6	76.0

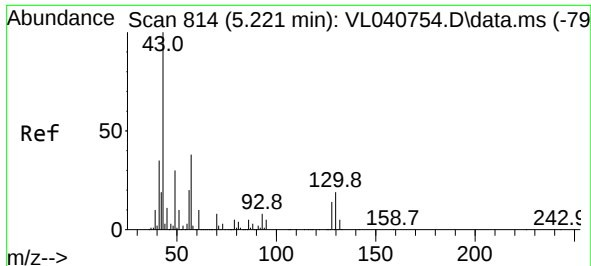


#23
Vinyl Acetate
Concen: 0.213 ppbv
RT: 4.629 min Scan# 630
Delta R.T. -0.019 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 43 Resp: 29160

Ion	Ratio	Lower	Upper
43	100		
86	6.5	4.9	7.3
42	95.4	7.8	11.6#
44	2.3	3.8	5.6#



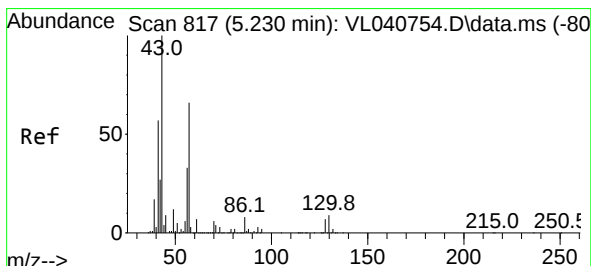
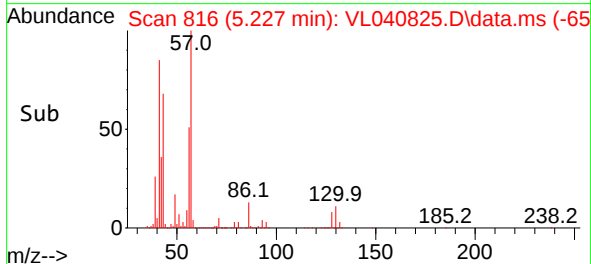
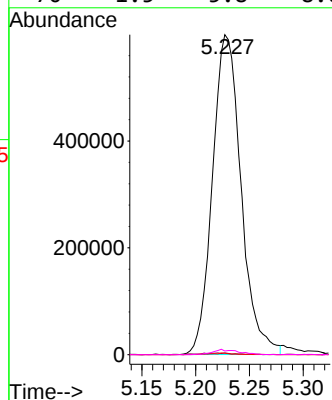
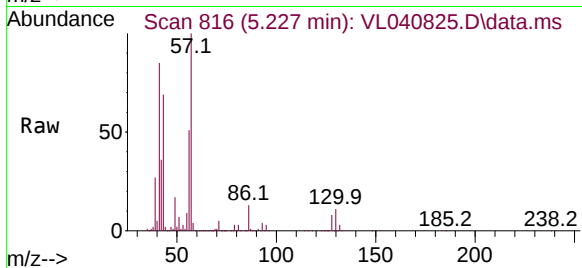


#25
Ethyl Acetate
Concen: 4.706 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.007 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-3

Tgt Ion: 43 Resp: 1109192

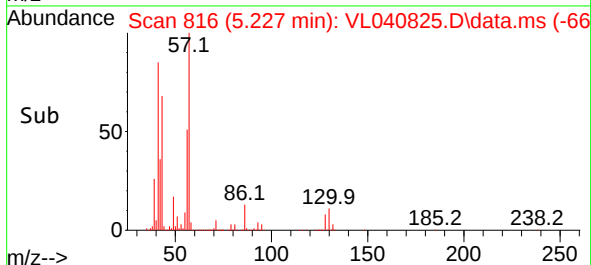
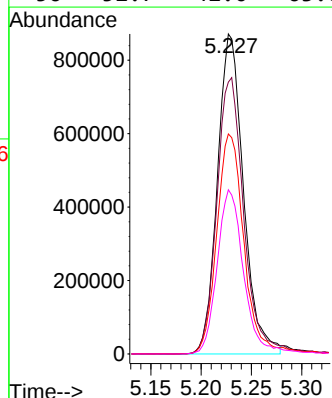
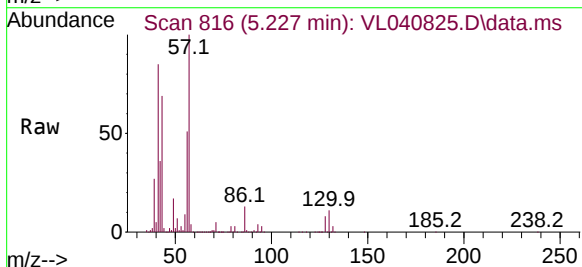
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.2	12.4#
61	0.5	8.2	12.2#
70	1.5	5.8	8.6#

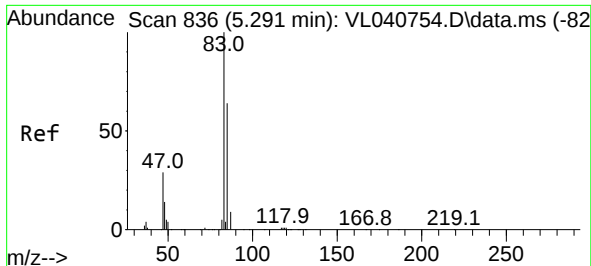


#26
Hexane
Concen: 14.559 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.000 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 57 Resp: 1568229

Ion	Ratio	Lower	Upper
57	100		
41	91.0	71.4	107.2
43	72.5	182.3	273.5#
56	52.7	42.0	63.0





#29

Chloroform

Concen: 0.037 ppbv

RT: 5.285 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL040825.D

Acq: 9 Nov 2023 00:37

Instrument :

MSVOA_L

ClientSampleId :

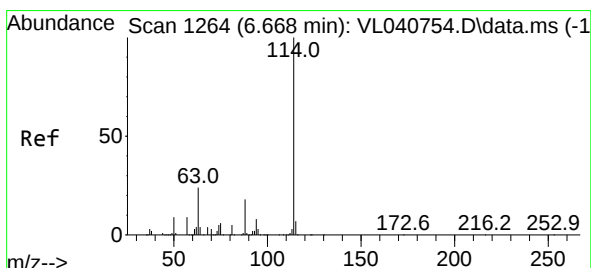
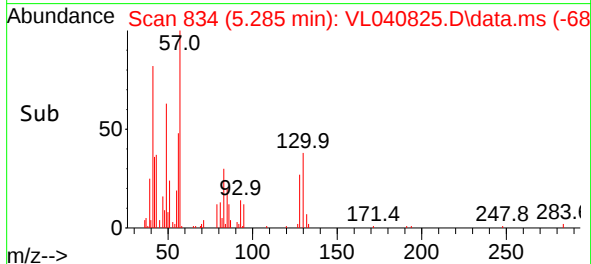
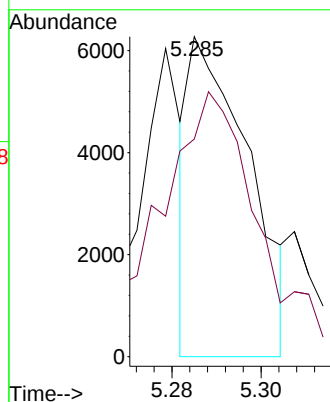
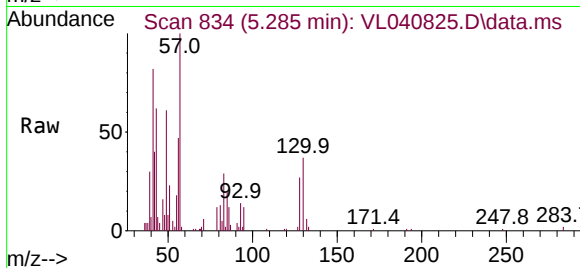
NT-IA-3

Tgt Ion: 83 Resp: 5818

Ion Ratio Lower Upper

83 100

85 78.6 51.3 76.9#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. -0.003 min

Lab File: VL040825.D

Acq: 9 Nov 2023 00:37

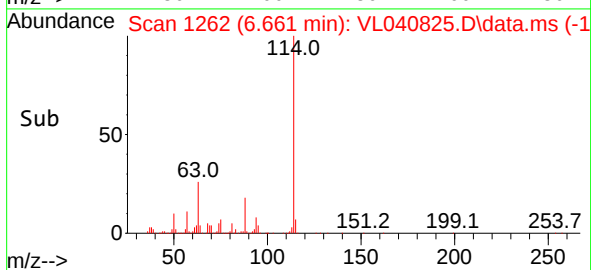
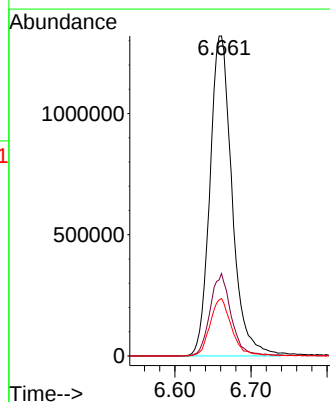
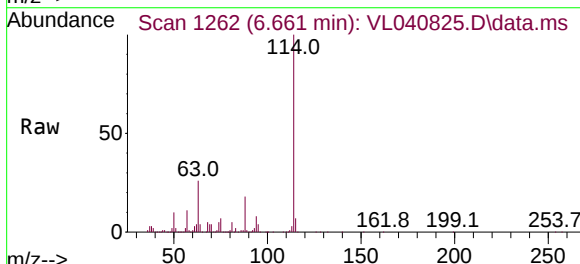
Tgt Ion:114 Resp: 2667854

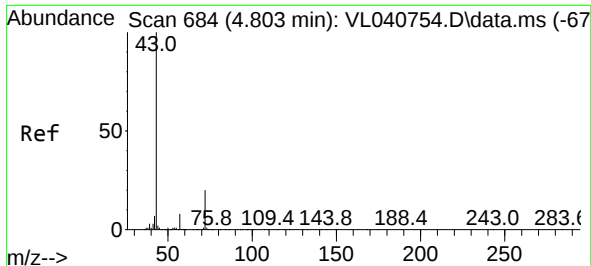
Ion Ratio Lower Upper

114 100

63 24.8 19.8 29.6

88 17.6 14.2 21.2

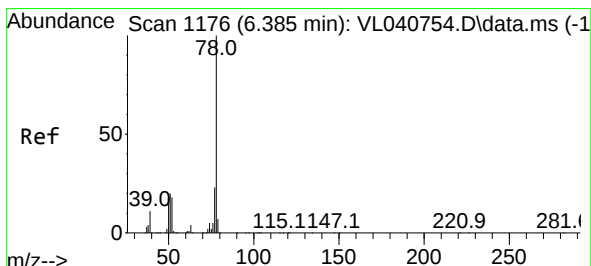
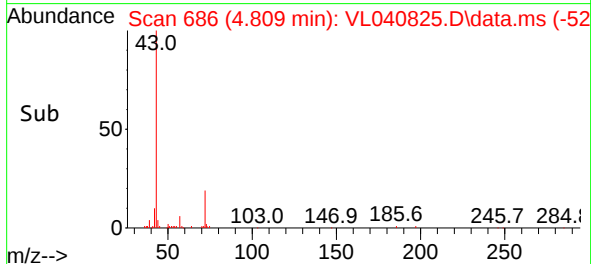
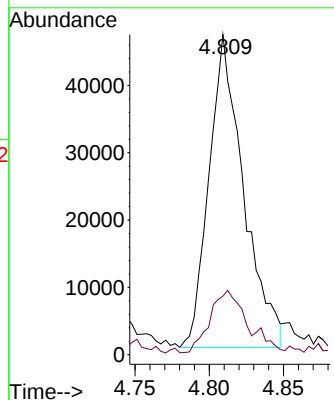
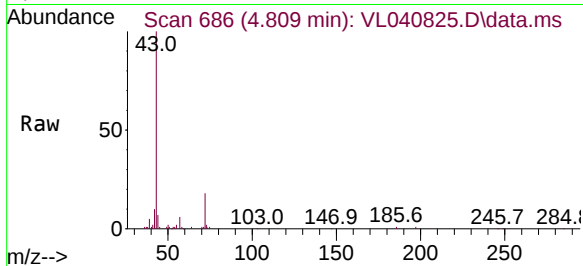




#34
2-Butanone
Concen: 0.623 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

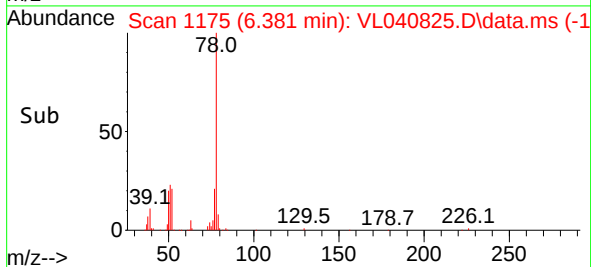
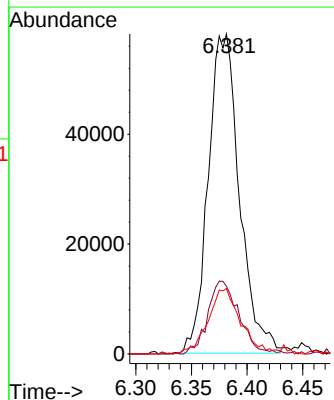
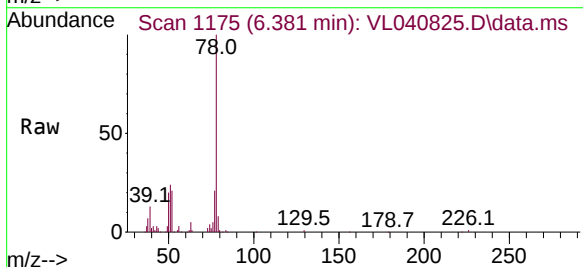
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-3

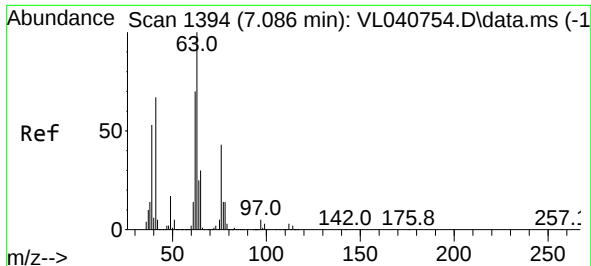
Tgt Ion: 43 Resp: 75236
Ion Ratio Lower Upper
43 100
72 24.6 16.8 25.2



#36
Benzene
Concen: 0.553 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. 0.000 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 78 Resp: 113426
Ion Ratio Lower Upper
78 100
77 21.2 18.4 27.6
50 20.1 15.0 22.4





#39

1,2-Dichloropropane

Concen: 8.084 ppbv

RT: 6.661 min Scan# 1

Delta R.T. -0.421 min

Lab File: VL040825.D

Acq: 9 Nov 2023 00:37

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-3

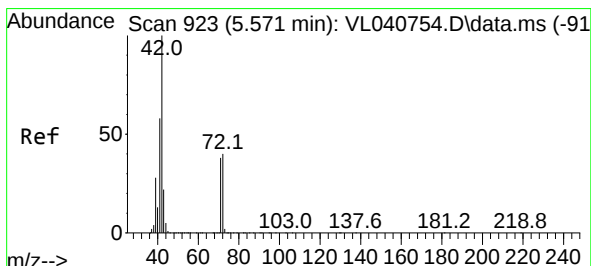
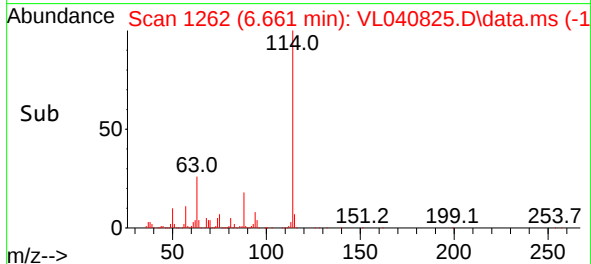
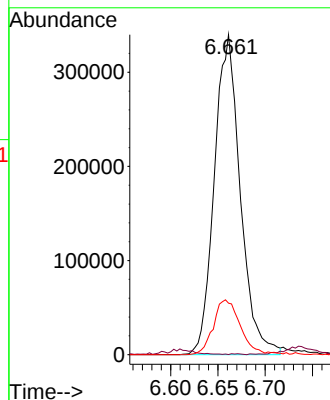
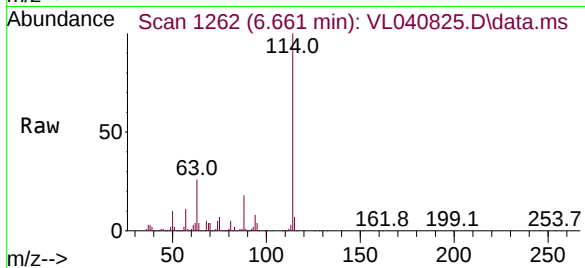
Tgt Ion: 63 Resp: 648093

Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 16.1 55.7 83.5#



#41

Tetrahydrofuran

Concen: 6.984 ppbv

RT: 5.227 min Scan# 816

Delta R.T. -0.344 min

Lab File: VL040825.D

Acq: 9 Nov 2023 00:37

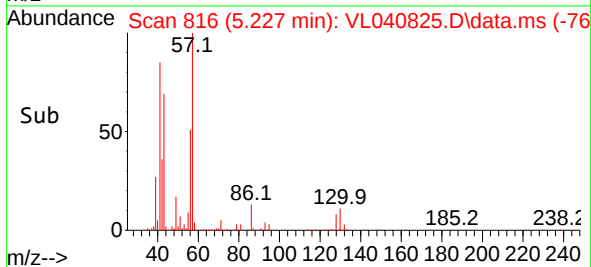
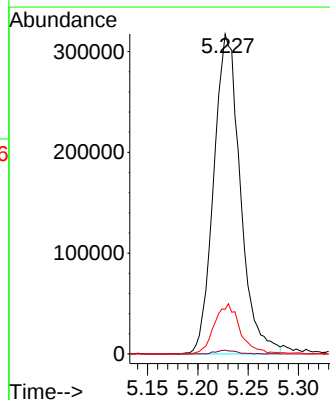
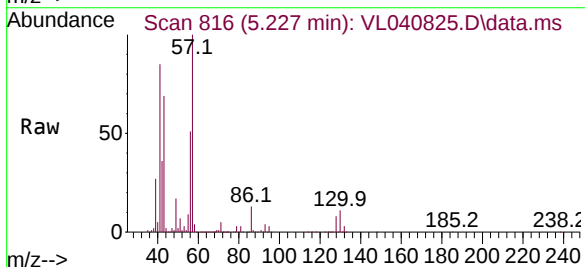
Tgt Ion: 42 Resp: 584024

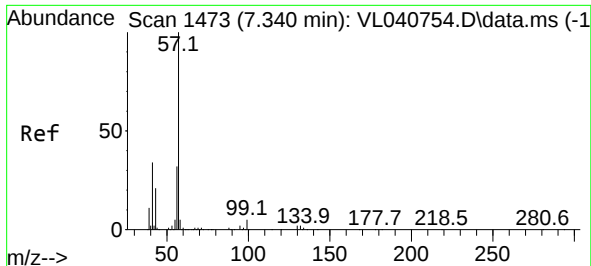
Ion Ratio Lower Upper

42 100

72 1.0 31.1 46.7#

71 15.5 29.7 44.5#

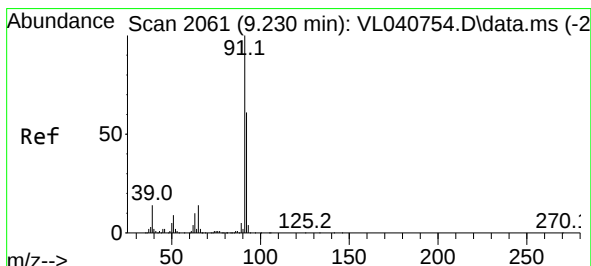
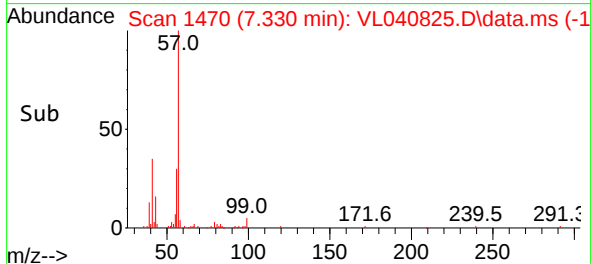
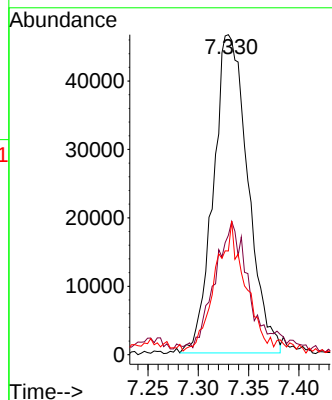
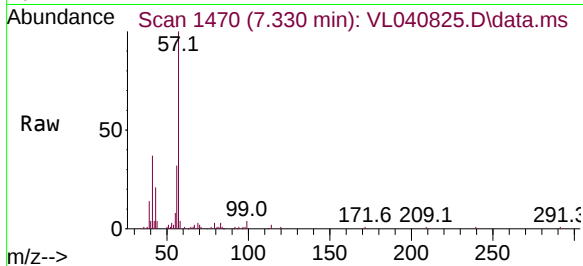




#44
2,2,4-Trimethylpentane
Concen: 0.319 ppbv
RT: 7.330 min Scan# 1473
Delta R.T. -0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

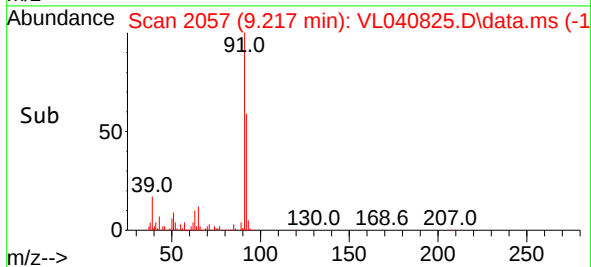
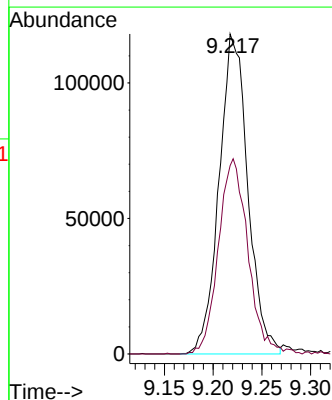
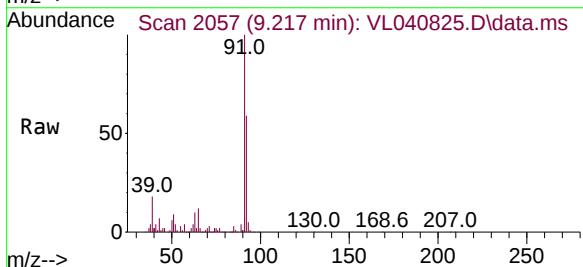
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-3

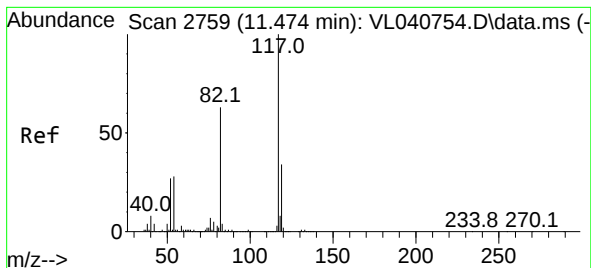
Tgt Ion: 57 Resp: 110867
Ion Ratio Lower Upper
57 100
41 45.7 27.4 41.0#
56 40.7 25.0 37.6#



#53
Toluene
Concen: 0.993 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 91 Resp: 242424
Ion Ratio Lower Upper
91 100
92 62.9 50.2 75.2

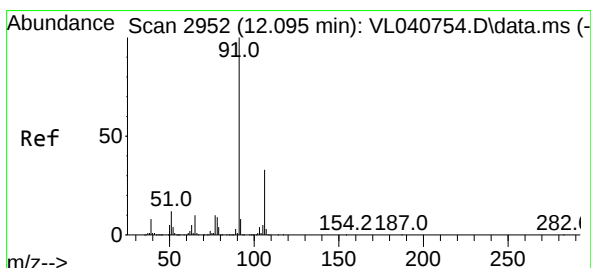
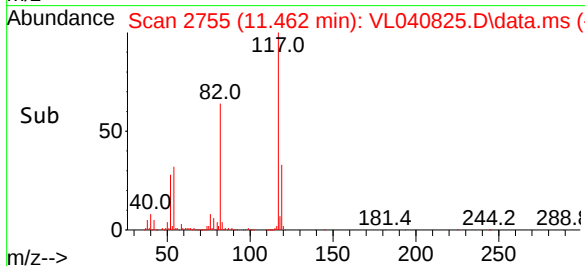
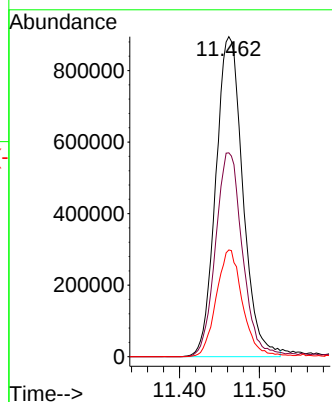
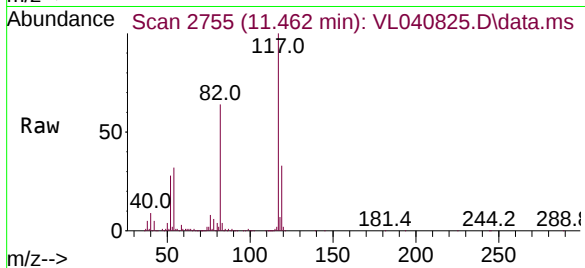




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

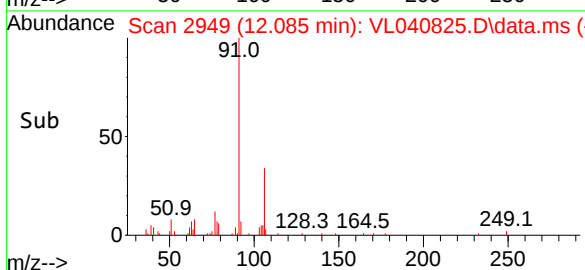
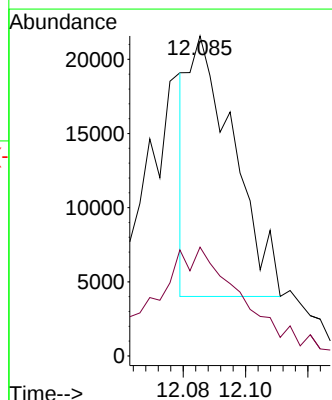
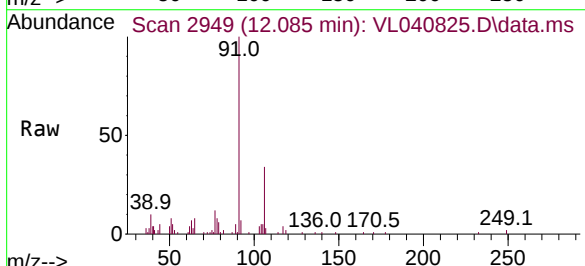
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-3

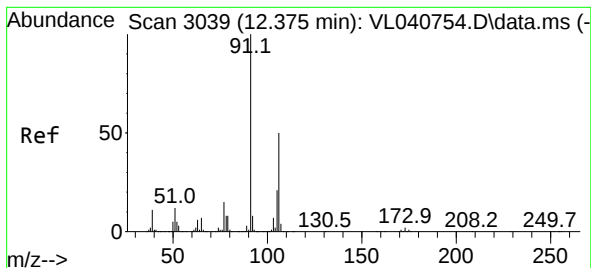
Tgt Ion:117 Resp: 2102289
Ion Ratio Lower Upper
117 100
82 65.3 46.6 70.0
119 32.5 26.0 39.0



#58
Ethyl Benzene
Concen: 0.067 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 91 Resp: 17755
Ion Ratio Lower Upper
91 100
106 37.8 26.7 40.1

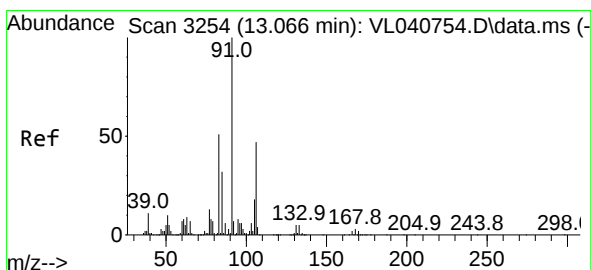
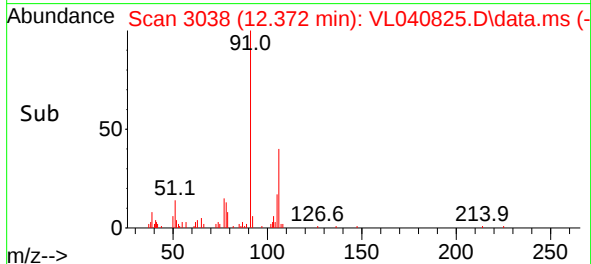
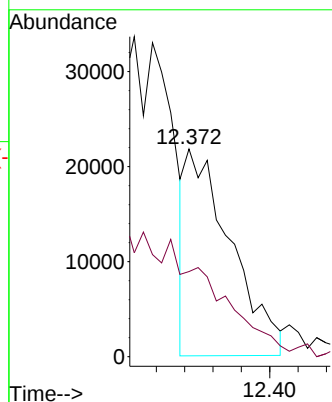
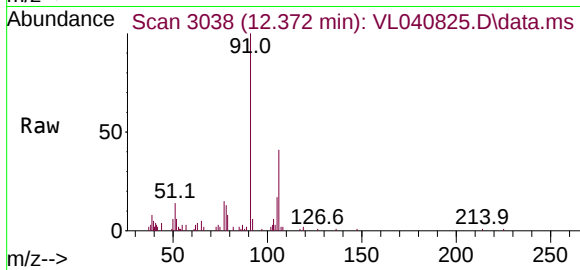




#59
m/p-Xylene
Concen: 0.110 ppbv
RT: 12.372 min Scan# 3039
Delta R.T. 0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

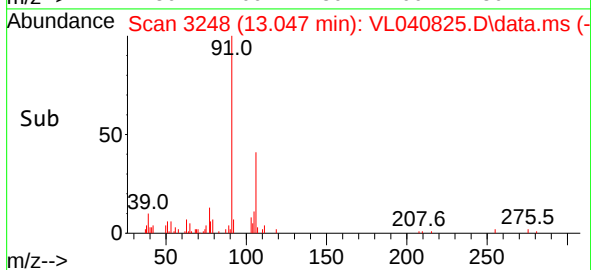
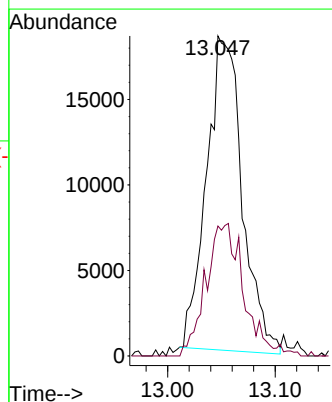
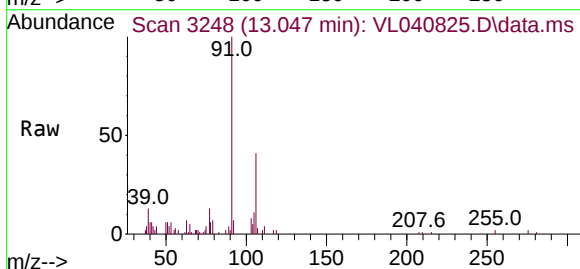
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-3

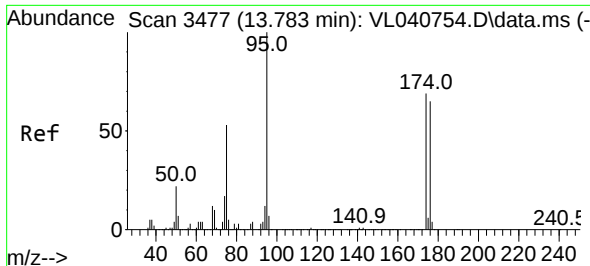
Tgt Ion: 91 Resp: 24064
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5#



#60
o-Xylene
Concen: 0.205 ppbv
RT: 13.047 min Scan# 3248
Delta R.T. -0.006 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

Tgt Ion: 91 Resp: 42477
Ion Ratio Lower Upper
91 100
106 44.7 23.5 70.5

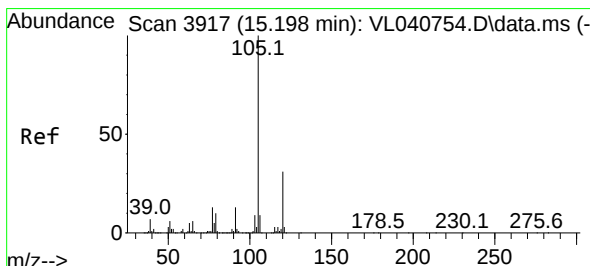
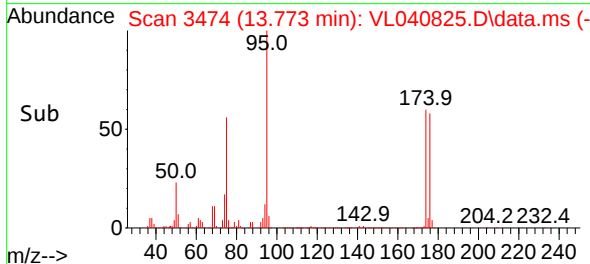
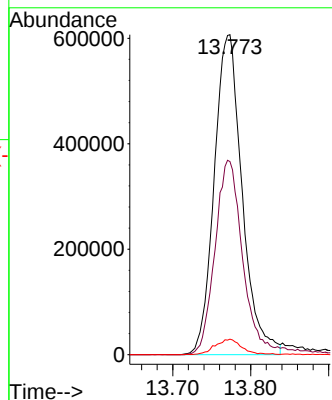
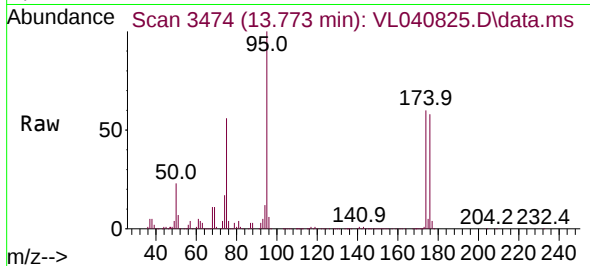




#68
1-Bromo-4-Fluorobenzene
Concen: 9.780 ppbv
RT: 13.773 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

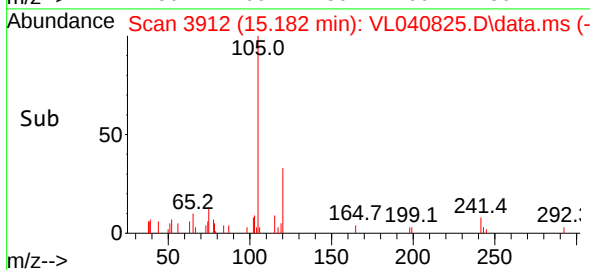
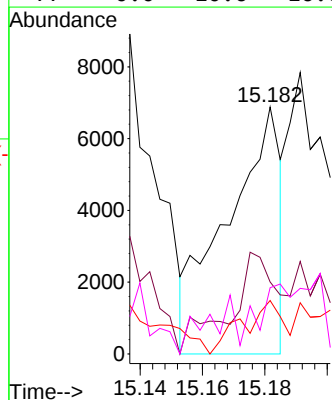
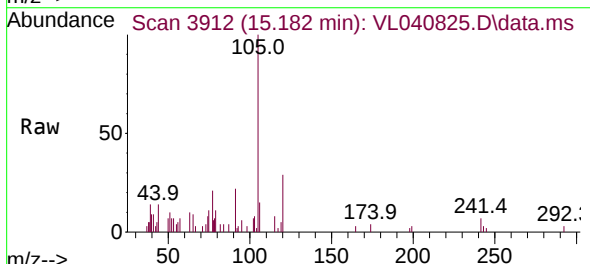
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-3

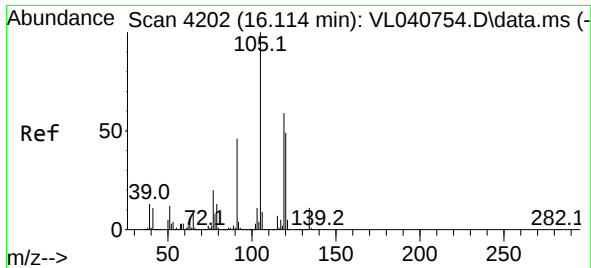
Tgt Ion: 95 Resp: 1512858
Ion Ratio Lower Upper
95 100
174 62.6 54.7 82.1
175 4.8 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.034 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.003 min
Lab File: VL040825.D
Acq: 9 Nov 2023 00:37

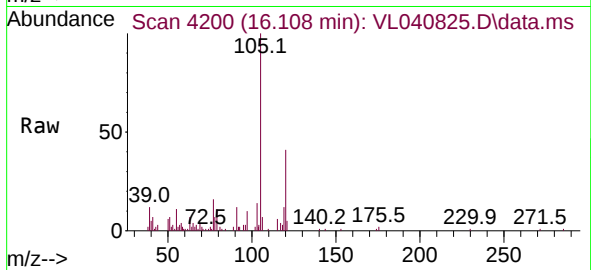
Tgt Ion: 105 Resp: 8223
Ion Ratio Lower Upper
105 100
120 65.2 25.0 37.4#
91 32.7 9.8 14.8#
77 0.0 10.6 16.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.244 ppbv
 RT: 16.108 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL040825.D
 Acq: 9 Nov 2023 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-3



Tgt Ion:	105	Resp:	57021
Ion	Ratio	Lower	Upper
105	100		
120	45.7	39.4	59.2
91	11.0	38.6	58.0#
77	15.0	16.6	25.0#

