

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040824.D
 Acq On : 8 Nov 2023 23:56
 Operator : SY/MD
 Sample : 05275-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-2

Quant Time: Nov 09 02:15:08 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)

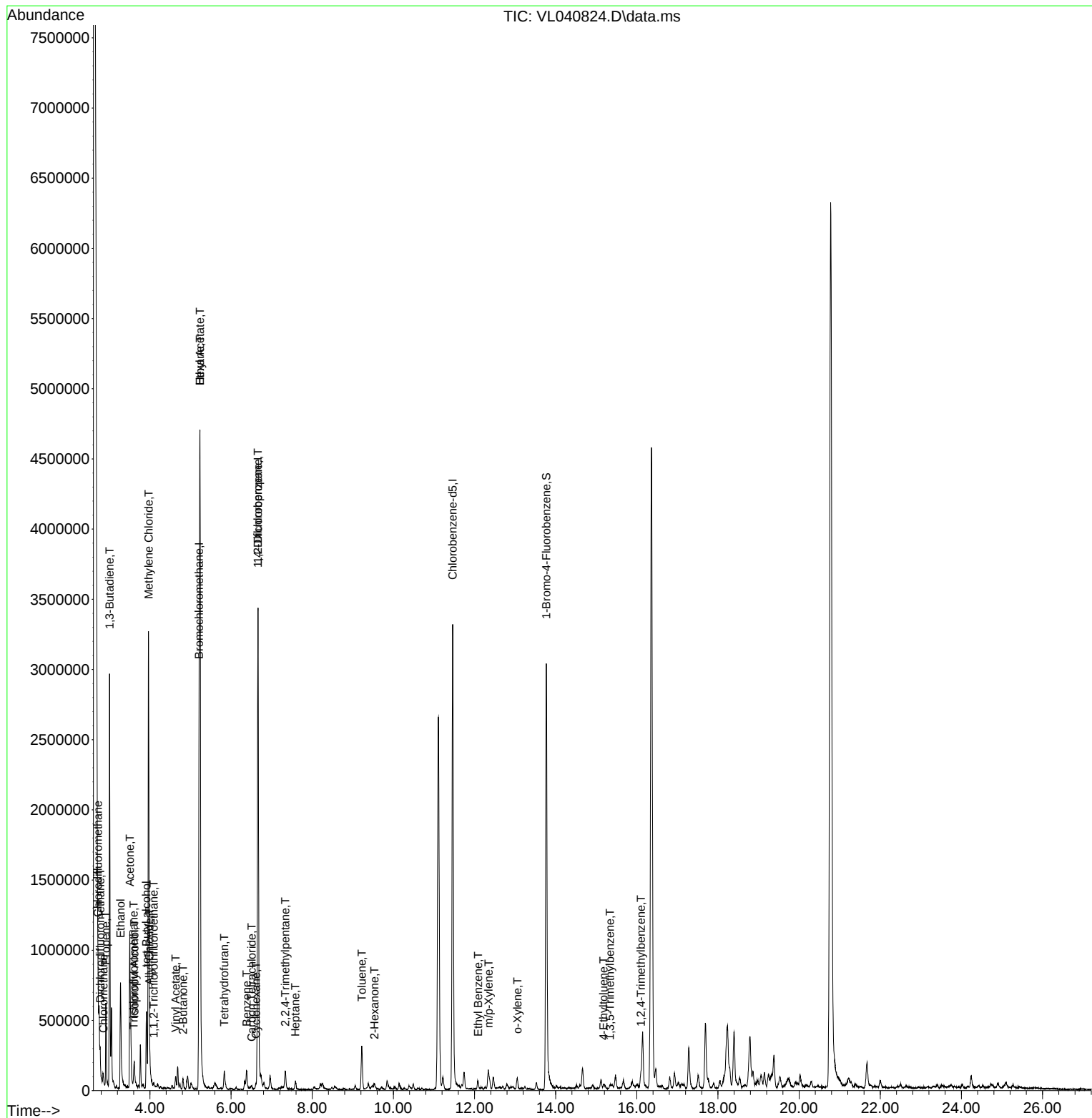
Internal Standards						
1) Bromochloromethane	5.211	49	1045701	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2617272	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2168175	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1581551	9.913	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.774	85	101257	0.550	ppbv	98
3) Chlorodifluoromethane	2.719	51	95319	0.620	ppbv #	85
4) Chloromethane	2.857	50	30379	0.501	ppbv #	89
9) Propene	2.912	41	115477	2.023	ppbv	83
10) Heptane	7.584	43	19438	0.136	ppbv #	68
11) Trichlorofluoromethane	3.597	101	36278	0.255	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.095	101	3521	0.035	ppbv #	1
13) Ethanol	3.275	45	772162	59.926	ppbv	99
15) Acetone	3.504	43	1139285	10.539	ppbv	96
16) 1,3-Butadiene	3.005	39	794812	14.015	ppbv #	15
17) tert-Butyl alcohol	3.915	59	420670	3.795	ppbv	99
19) Isopropyl Alcohol	3.616	45	167399	2.405	ppbv #	1
20) Methylene Chloride	3.967	84	1049616	23.309	ppbv	99
21) Allyl Chloride	3.989	41	5733	0.080	ppbv #	19
23) Vinyl Acetate	4.632	43	34110	0.248	ppbv #	1
25) Ethyl Acetate	5.234	43	1252108	5.286	ppbv #	76
26) Hexane	5.234	57	1756024	16.221	ppbv #	41
30) Cyclohexane	6.613	84	3184	0.035	ppbv #	1
34) 2-Butanone	4.816	43	46645	0.394	ppbv #	57
35) Carbon Tetrachloride	6.507	117	7077	0.048	ppbv #	94
36) Benzene	6.385	78	98173	0.488	ppbv #	88
39) 1,2-Dichloropropane	6.664	63	655799	8.338	ppbv #	26
41) Tetrahydrofuran	5.832	42	14417	0.176	ppbv #	39
44) 2,2,4-Trimethylpentane	7.336	57	106956	0.314	ppbv #	77
51) 2-Hexanone	9.532	43	7433	0.048	ppbv #	29
53) Toluene	9.221	91	221506	0.925	ppbv	98
58) Ethyl Benzene	12.089	91	53390	0.196	ppbv	95
59) m/p-Xylene	12.346	91	70559	0.314	ppbv #	30
60) o-Xylene	13.056	91	31825	0.149	ppbv #	30
72) 4-Ethyltoluene	15.179	105	8796	0.035	ppbv #	54
73) 1,3,5-Trimethylbenzene	15.342	105	10394	0.047	ppbv	99
74) 1,2,4-Trimethylbenzene	16.101	105	69971	0.290	ppbv #	64

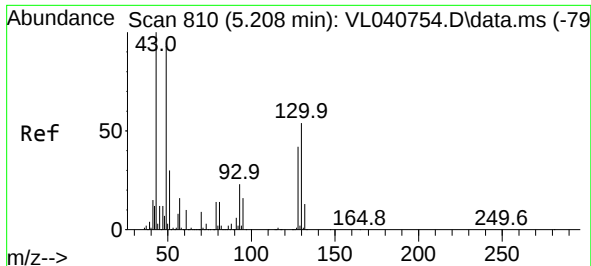
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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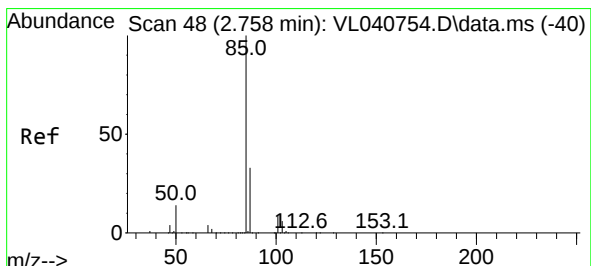
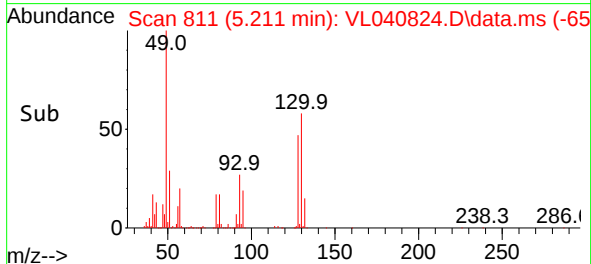
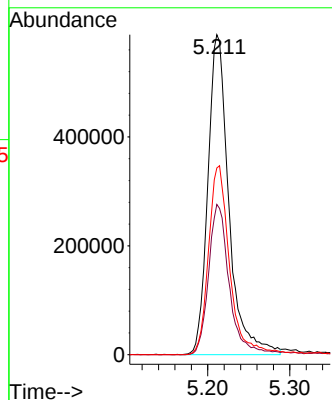
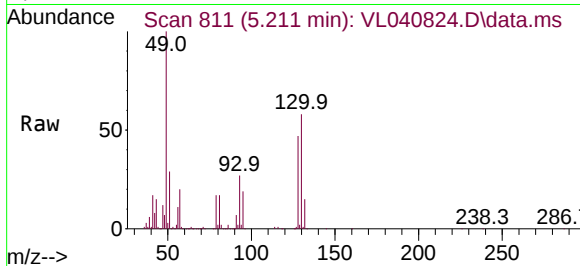




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

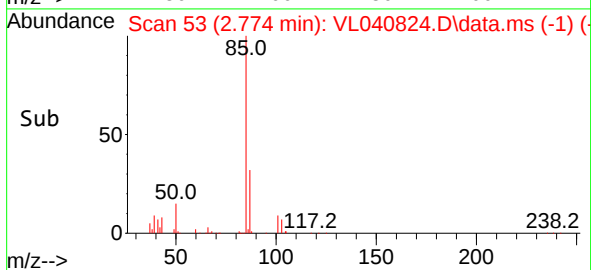
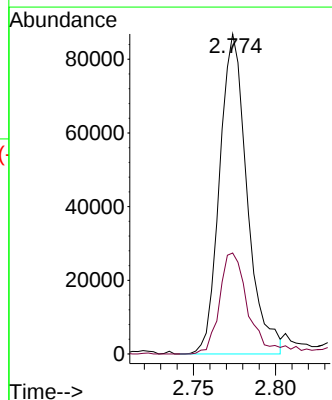
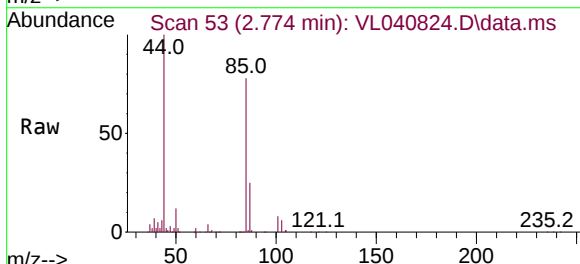
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-2

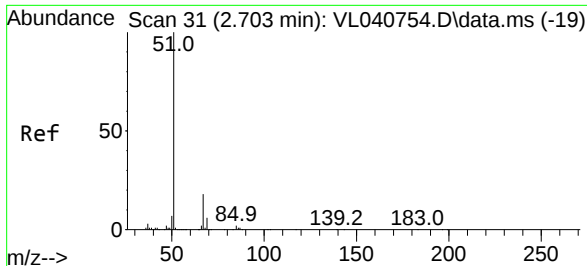
Tgt Ion: 49 Resp: 1045701
 Ion Ratio Lower Upper
 49 100
 128 47.5 23.9 71.7
 130 59.9 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.550 ppbv
 RT: 2.774 min Scan# 53
 Delta R.T. 0.003 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

Tgt Ion: 85 Resp: 101257
 Ion Ratio Lower Upper
 85 100
 87 31.6 26.0 39.0

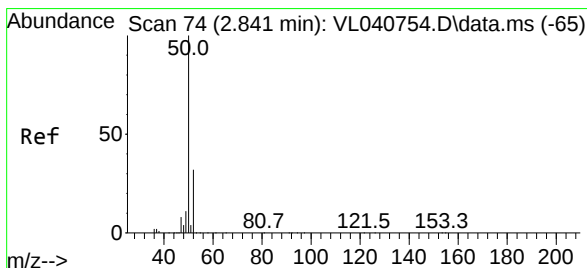
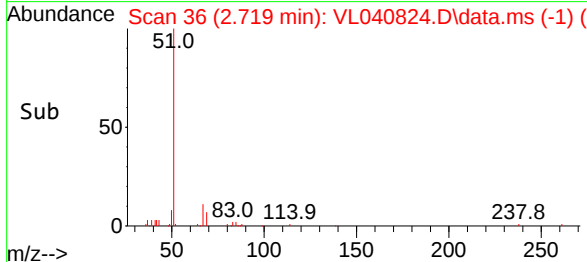
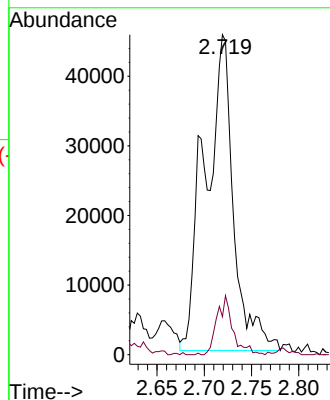
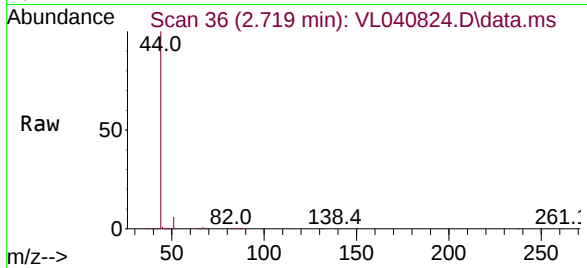




#3
Chlorodifluoromethane
Concen: 0.620 ppbv
RT: 2.719 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

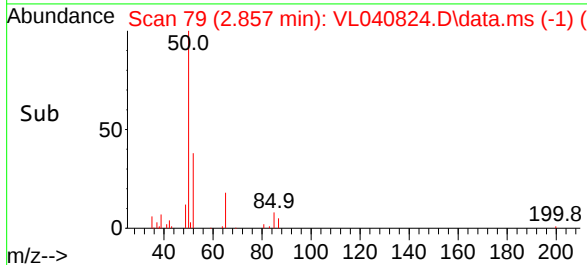
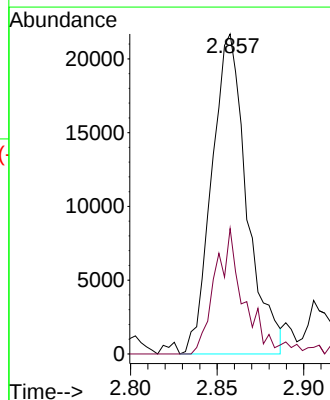
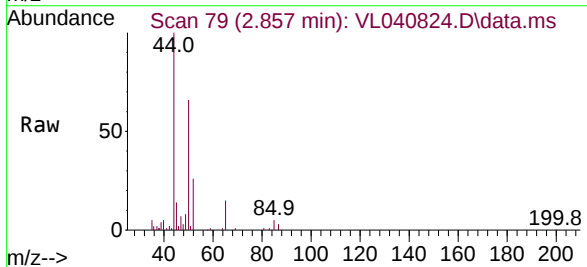
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2

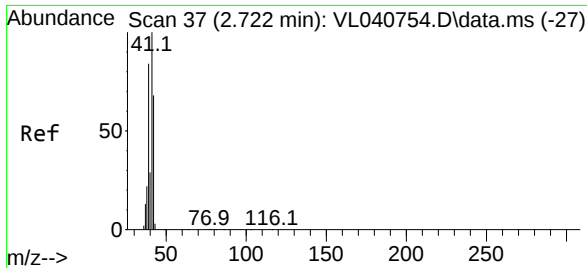
Tgt Ion: 51 Resp: 95319
Ion Ratio Lower Upper
51 100
67 10.5 13.8 20.6#



#4
Chloromethane
Concen: 0.501 ppbv
RT: 2.857 min Scan# 79
Delta R.T. 0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 50 Resp: 30379
Ion Ratio Lower Upper
50 100
52 38.0 25.3 37.9#

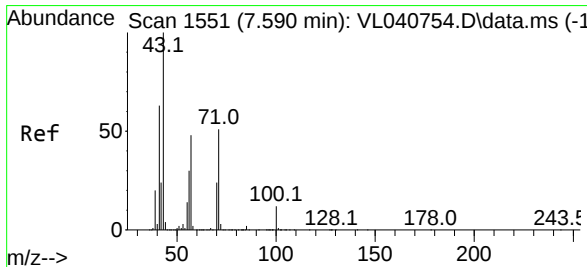
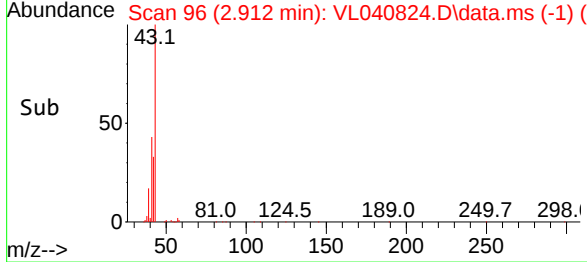
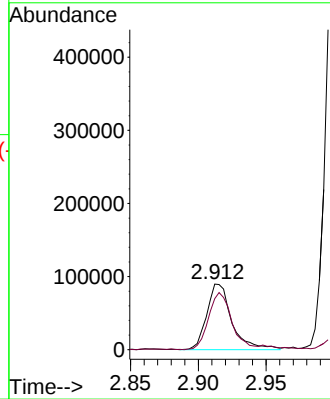
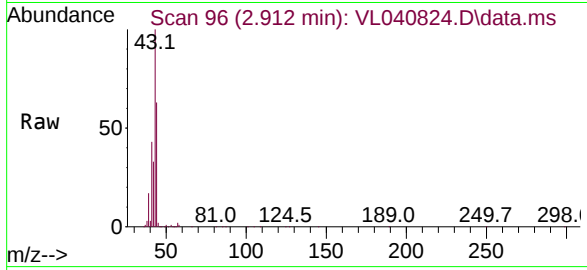




#9
 Propene
 Concen: 2.023 ppbv
 RT: 2.912 min Scan# 90
 Delta R.T. 0.177 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

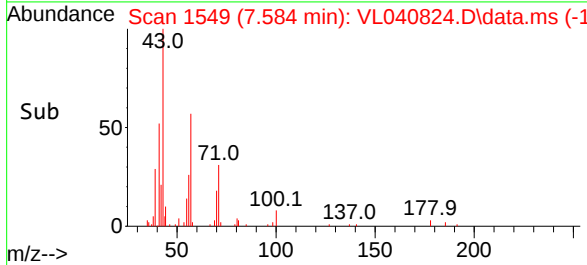
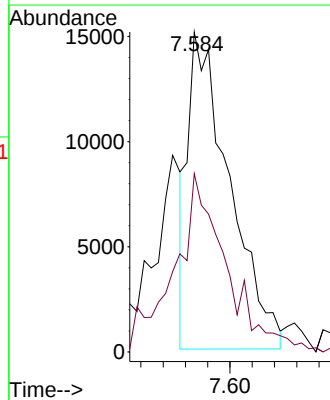
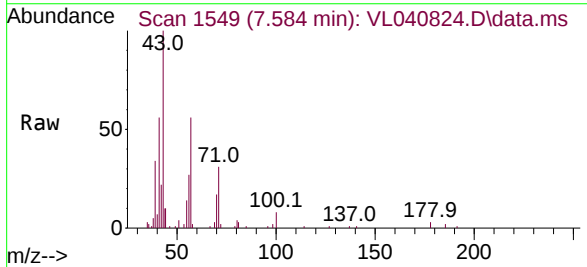
Instrument :
 MSVOA_1
 ClientSampleId :
 NT-IA-2

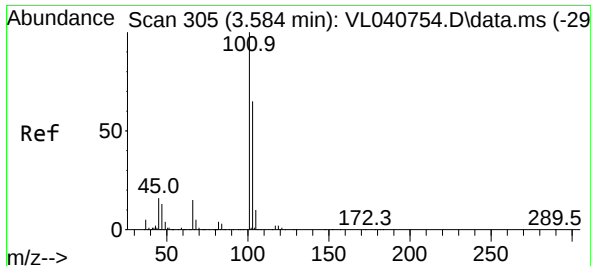
Tgt Ion: 41 Resp: 115477
 Ion Ratio Lower Upper
 41 100
 42 85.3 57.1 85.7



#10
 Heptane
 Concen: 0.136 ppbv
 RT: 7.584 min Scan# 1549
 Delta R.T. -0.003 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

Tgt Ion: 43 Resp: 19438
 Ion Ratio Lower Upper
 43 100
 57 71.8 40.0 60.0#

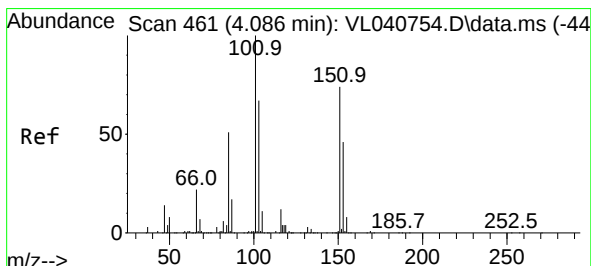
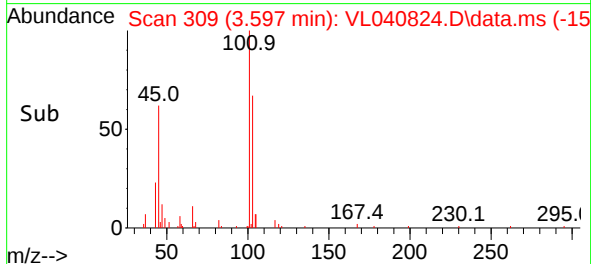
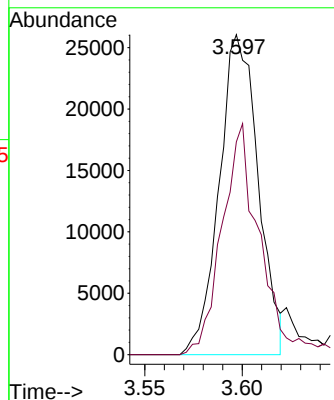
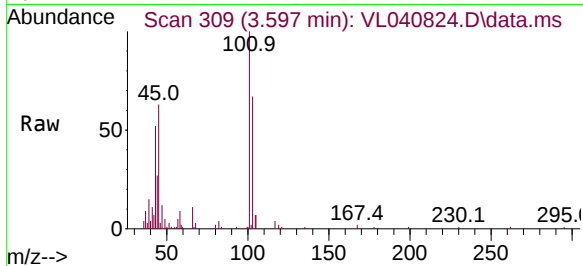




#11
 Trichlorofluoromethane
 Concen: 0.255 ppbv
 RT: 3.597 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

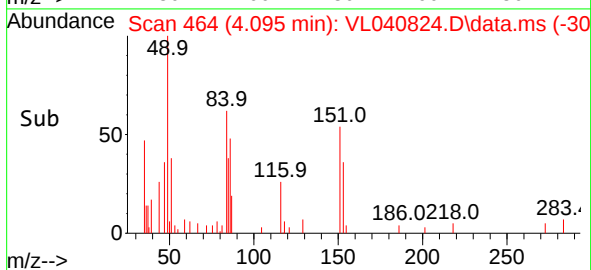
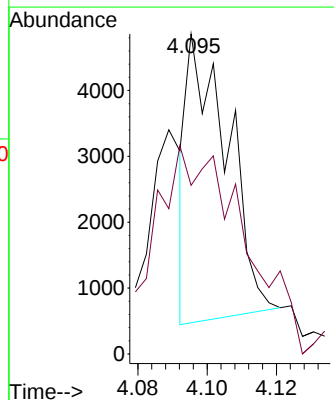
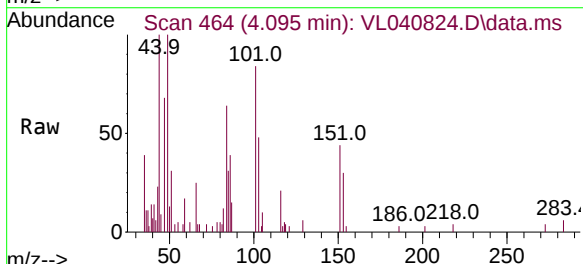
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-2

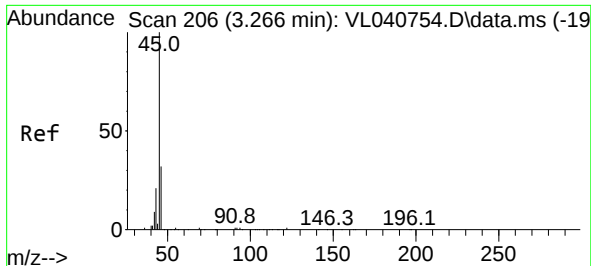
Tgt Ion:101 Resp: 36278
 Ion Ratio Lower Upper
 101 100
 103 66.5 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.095 min Scan# 464
 Delta R.T. 0.003 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

Tgt Ion:101 Resp: 3521
 Ion Ratio Lower Upper
 101 100
 151 169.2 58.1 87.1#

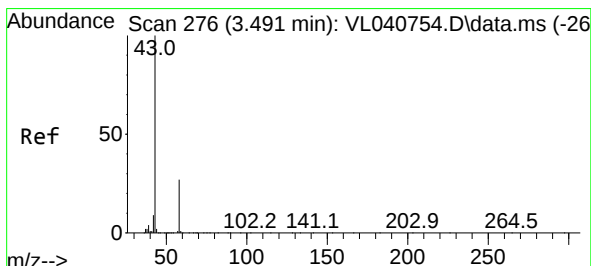
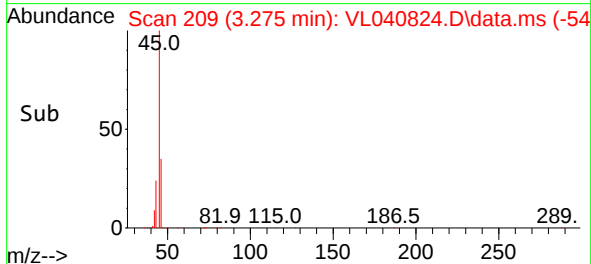
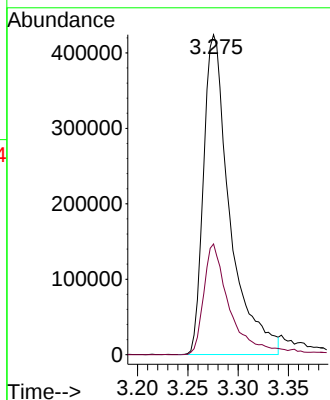
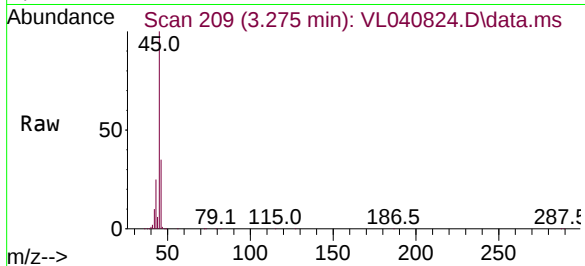




#13
Ethanol
Concen: 59.926 ppbv
RT: 3.275 min Scan# 206
Delta R.T. -0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

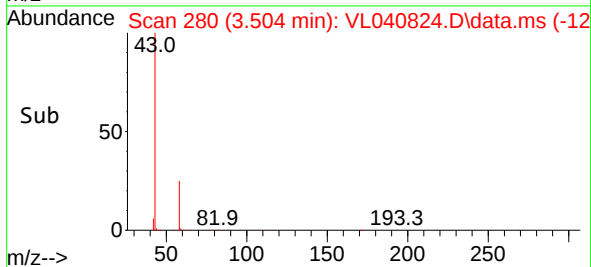
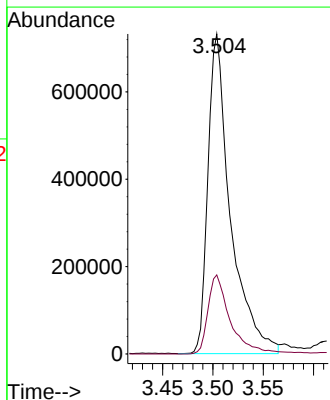
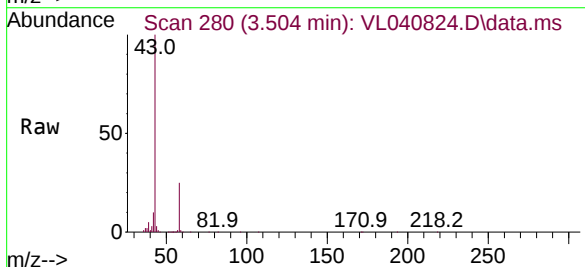
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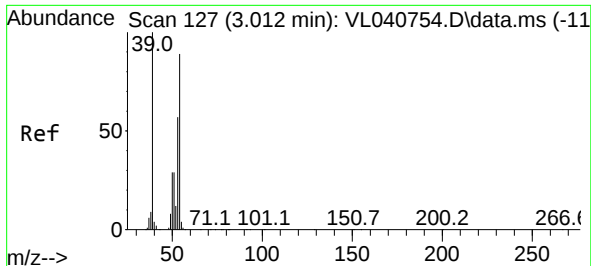
Tgt Ion: 45 Resp: 772162
Ion Ratio Lower Upper
45 100
46 35.6 14.6 58.2



#15
Acetone
Concen: 10.539 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 43 Resp: 1139285
Ion Ratio Lower Upper
43 100
58 24.8 21.6 32.4

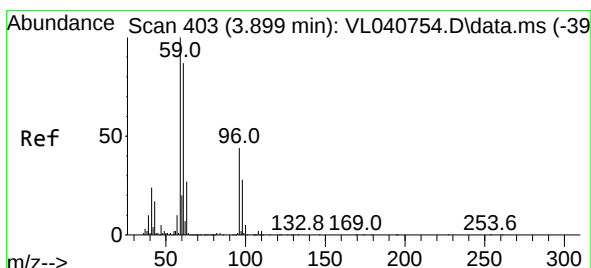
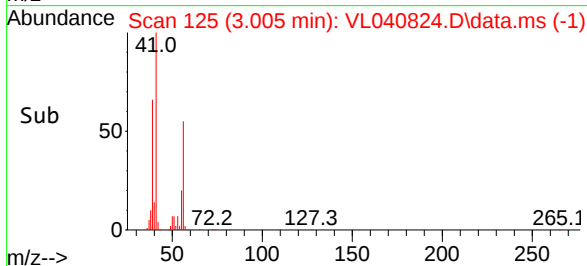
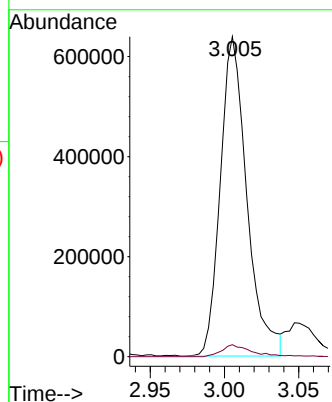
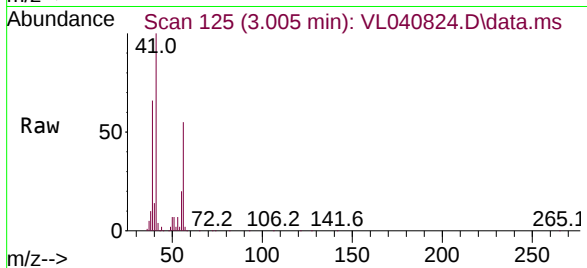




#16
1,3-Butadiene
Concen: 14.015 ppbv
RT: 3.005 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

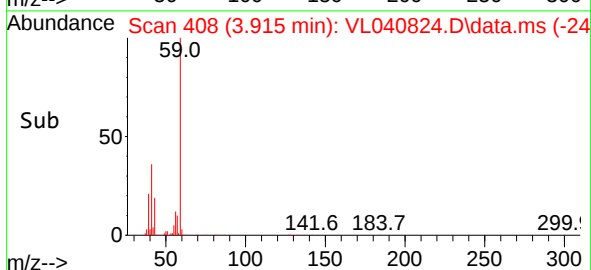
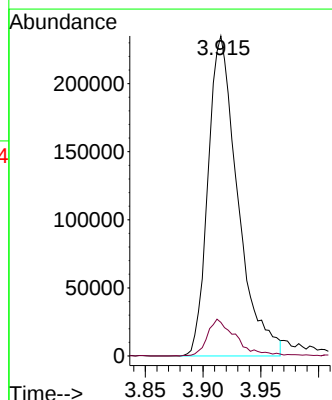
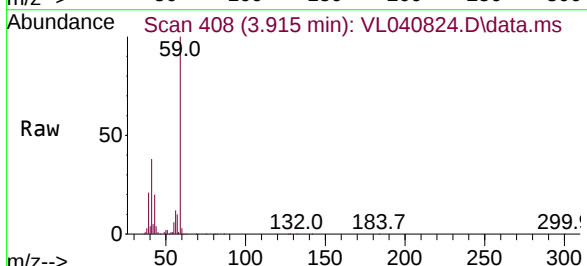
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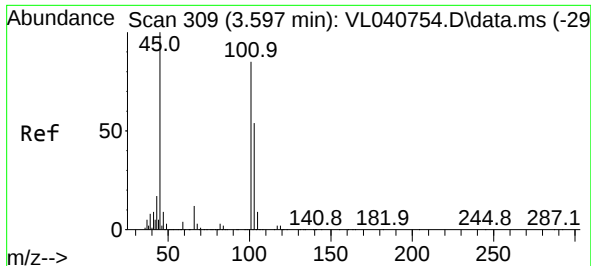
Tgt Ion: 39 Resp: 794812
Ion Ratio Lower Upper
39 100
54 4.4 63.0 94.6#



#17
tert-Butyl alcohol
Concen: 3.795 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.010 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 59 Resp: 420670
Ion Ratio Lower Upper
59 100
57 11.3 8.6 13.0





#19

Isopropyl Alcohol

Concen: 2.405 ppbv

RT: 3.616 min Scan# 315

Delta R.T. 0.010 min

Lab File: VL040824.D

Acq: 8 Nov 2023 23:56

Instrument :

MSVOA_L

ClientSampleId :

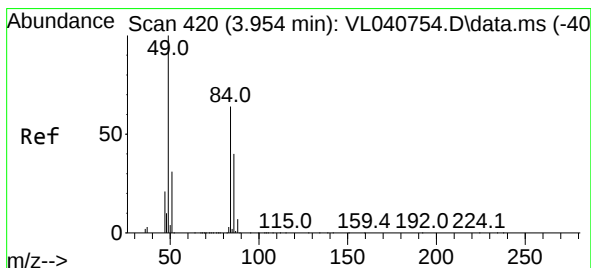
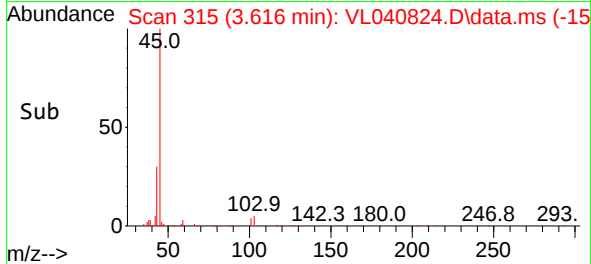
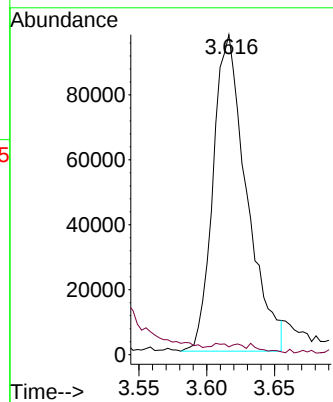
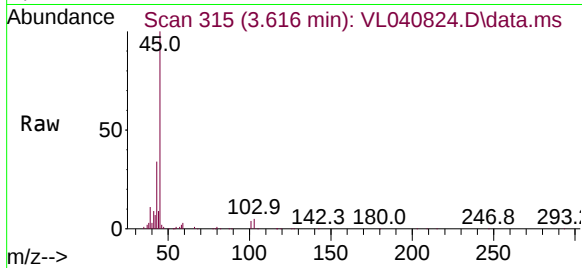
NT-IA-2

Tgt Ion: 45 Resp: 167399

Ion Ratio Lower Upper

45 100

58 169.1 30.3 45.5#



#20

Methylene Chloride

Concen: 23.309 ppbv

RT: 3.967 min Scan# 424

Delta R.T. 0.007 min

Lab File: VL040824.D

Acq: 8 Nov 2023 23:56

Tgt Ion: 84 Resp: 1049616

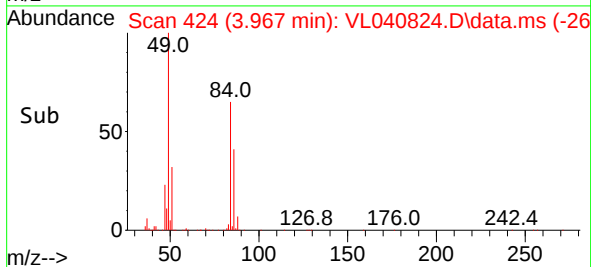
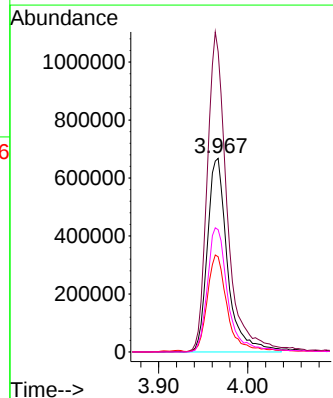
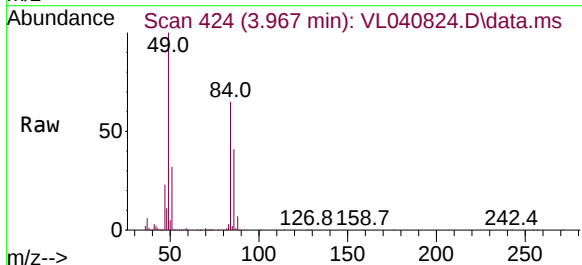
Ion Ratio Lower Upper

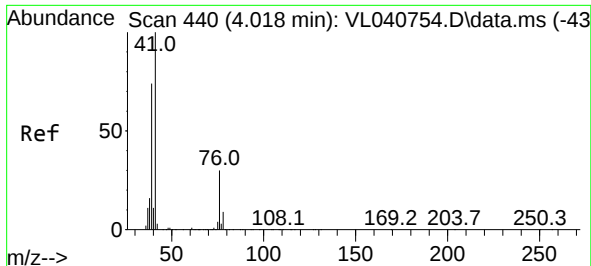
84 100

49 154.8 125.6 188.4

51 48.5 38.9 58.3

86 63.1 50.6 76.0

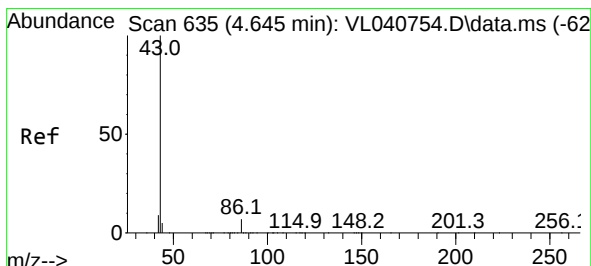
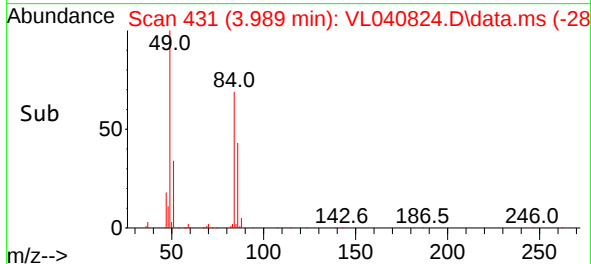
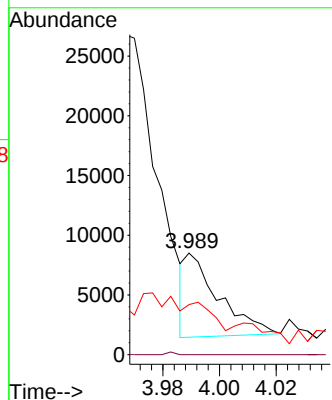
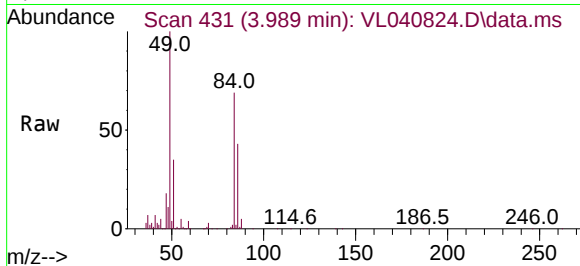




#21
 Allyl Chloride
 Concen: 0.080 ppbv
 RT: 3.989 min Scan# 41
 Delta R.T. -0.032 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

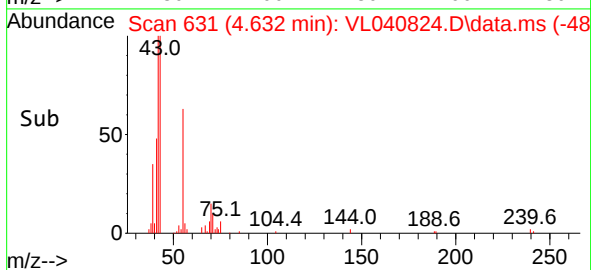
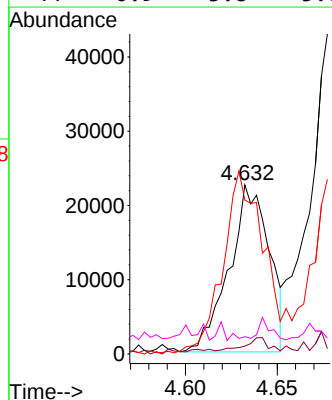
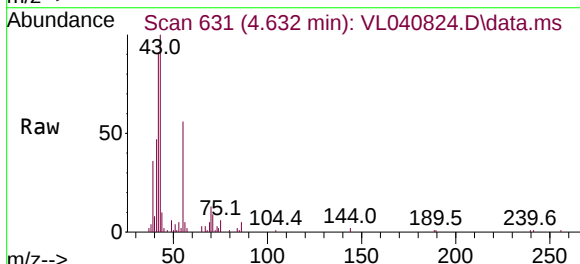
Instrument :
 MSVOA_1
 ClientSampleId :
 NT-IA-2

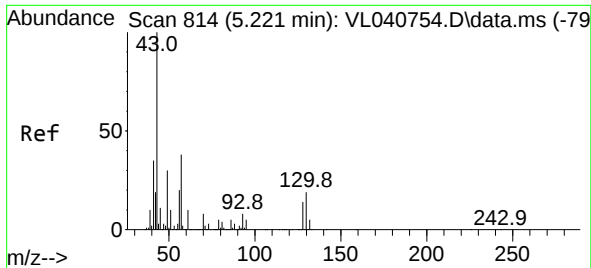
Tgt Ion: 41 Resp: 5733
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.1 36.1#
 39 0.0 63.8 95.6#



#23
 Vinyl Acetate
 Concen: 0.248 ppbv
 RT: 4.632 min Scan# 631
 Delta R.T. -0.016 min
 Lab File: VL040824.D
 Acq: 8 Nov 2023 23:56

Tgt Ion: 43 Resp: 34110
 Ion Ratio Lower Upper
 43 100
 86 3.2 4.9 7.3#
 42 90.4 7.8 11.6#
 44 0.9 3.8 5.6#



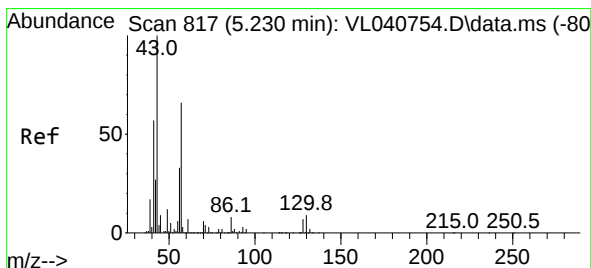
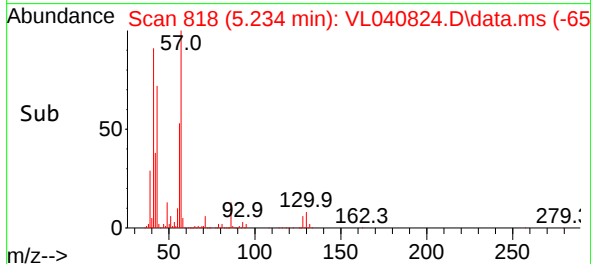
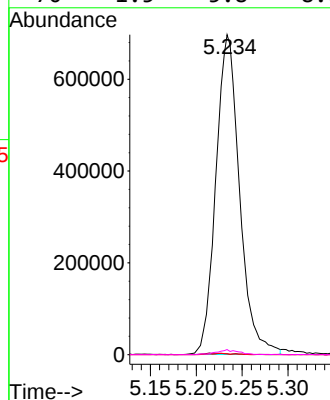
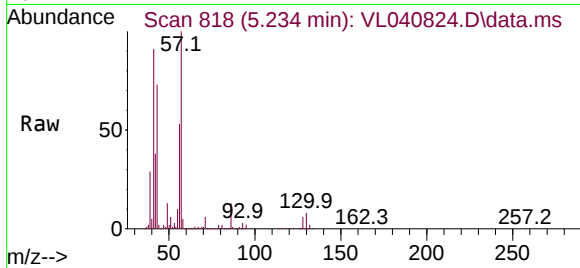


#25
Ethyl Acetate
Concen: 5.286 ppbv
RT: 5.234 min Scan# 814
Delta R.T. 0.013 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2

Tgt Ion: 43 Resp: 1252108

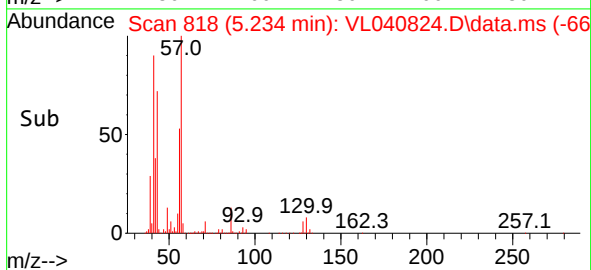
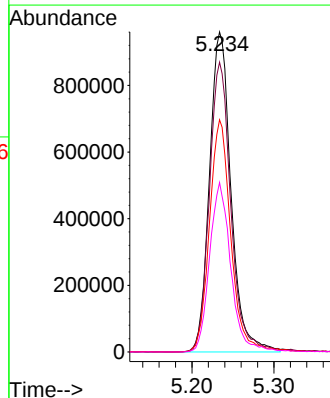
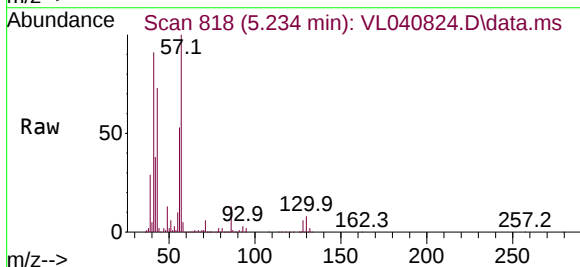
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.2	12.4#
61	0.4	8.2	12.2#
70	1.5	5.8	8.6#

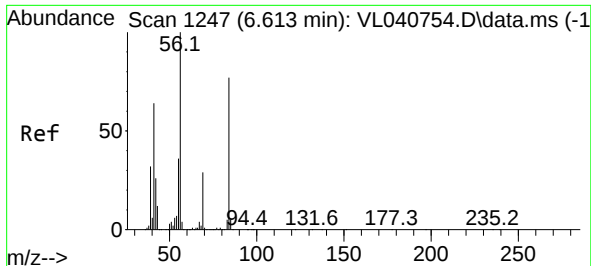


#26
Hexane
Concen: 16.221 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.007 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 57 Resp: 1756024

Ion	Ratio	Lower	Upper
57	100		
41	91.4	71.4	107.2
43	72.5	182.3	273.5#
56	52.6	42.0	63.0

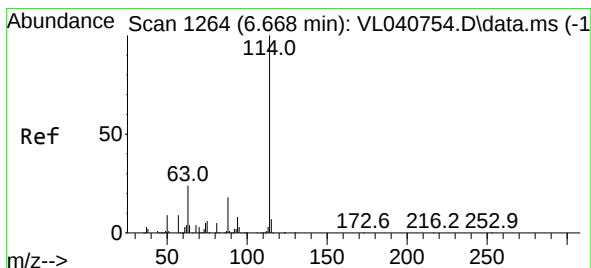
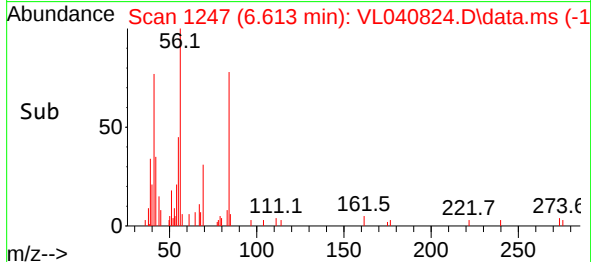
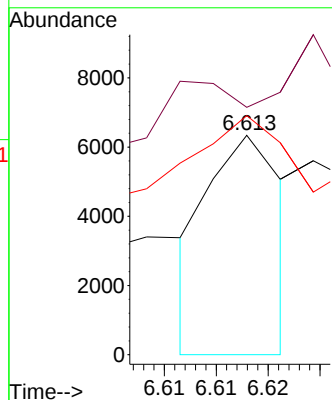
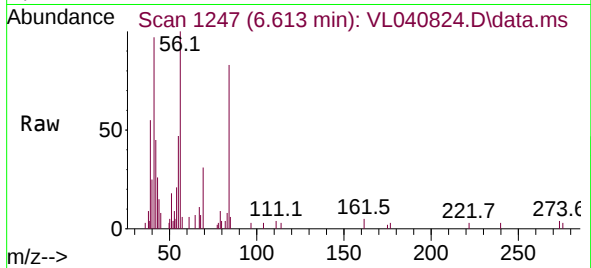




#30
Cyclohexane
Concen: 0.035 ppbv
RT: 6.613 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

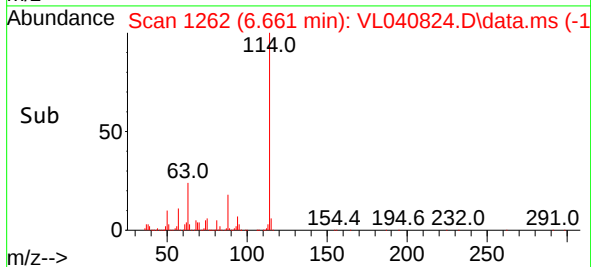
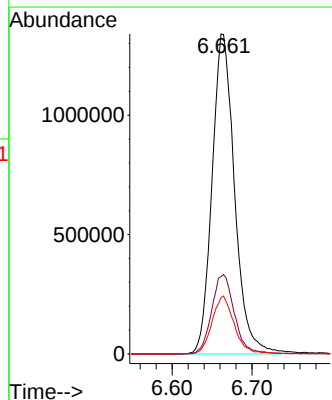
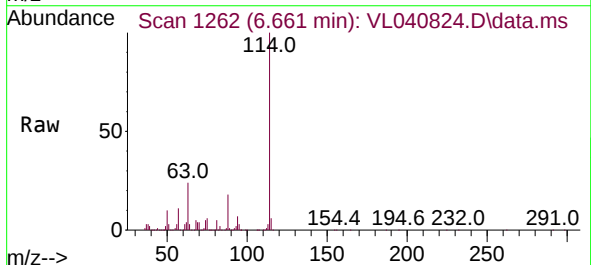
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2

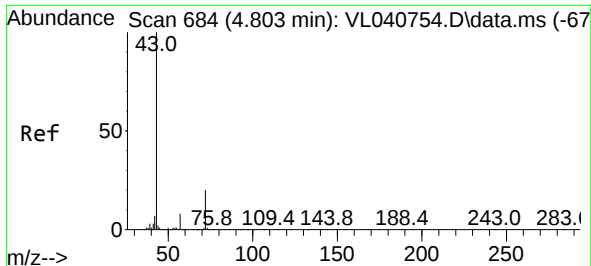
Tgt Ion: 84 Resp: 3184
Ion Ratio Lower Upper
84 100
56 0.0 110.3 165.5#
41 401.8 67.4 101.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 114 Resp: 2617272
Ion Ratio Lower Upper
114 100
63 25.2 19.8 29.6
88 18.0 14.2 21.2

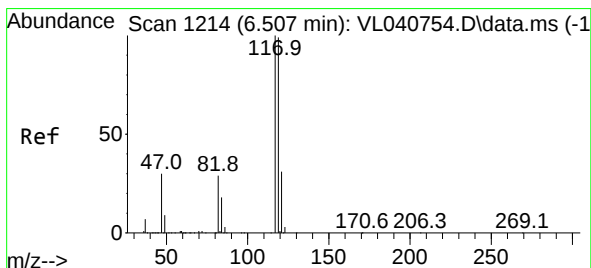
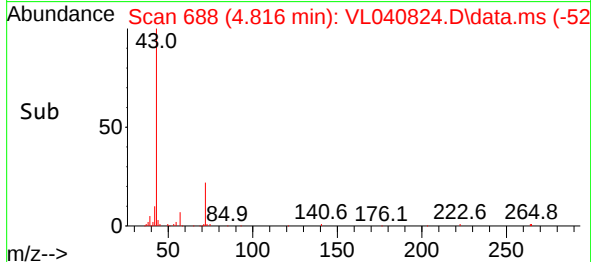
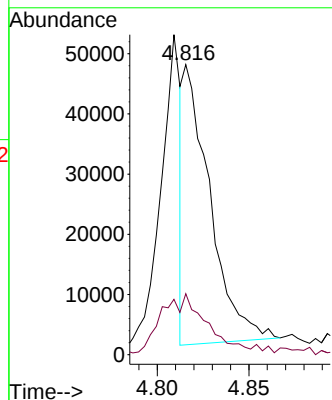
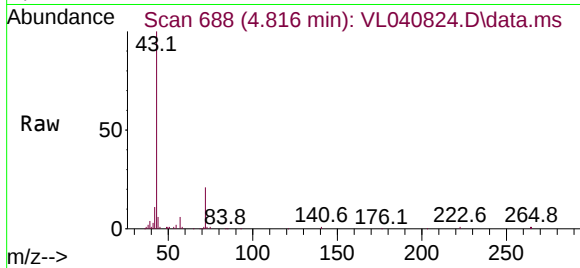




#34
2-Butanone
Concen: 0.394 ppbv
RT: 4.816 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

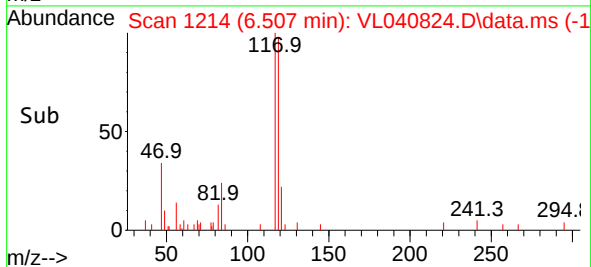
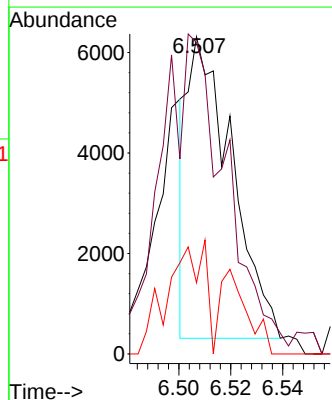
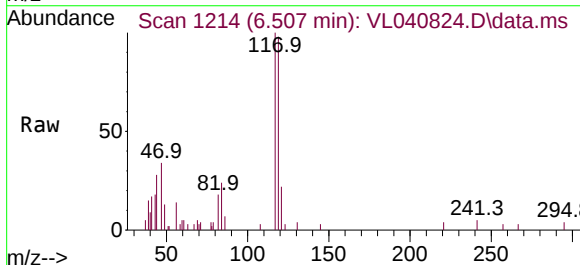
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2

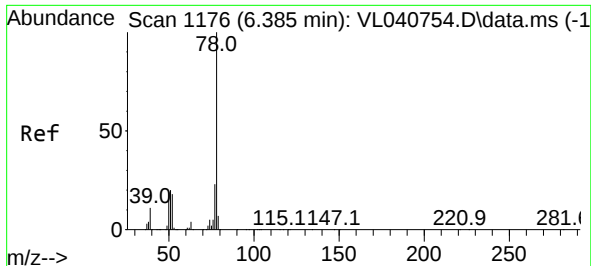
Tgt Ion: 43 Resp: 46645
Ion Ratio Lower Upper
43 100
72 41.1 16.8 25.2#



#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 6.507 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 117 Resp: 7077
Ion Ratio Lower Upper
117 100
119 96.3 79.4 119.0
121 23.6 25.0 37.4#

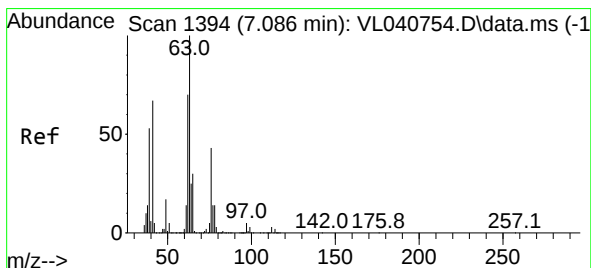
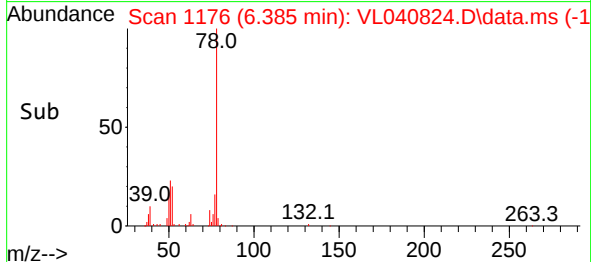
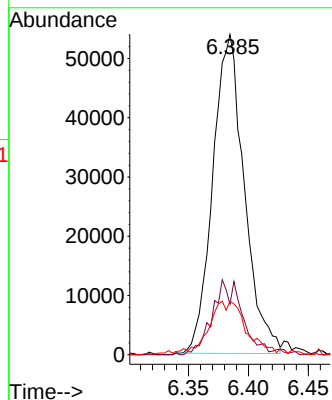
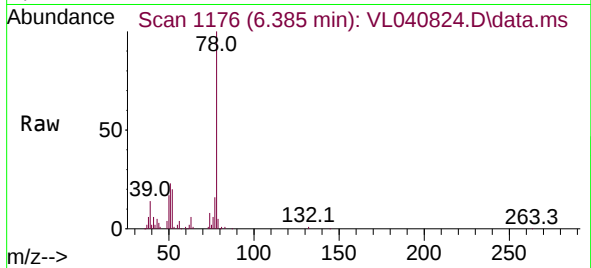




#36
Benzene
Concen: 0.488 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. 0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

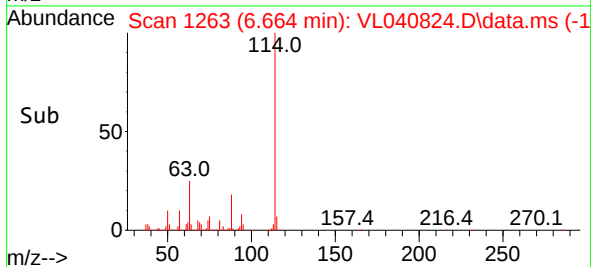
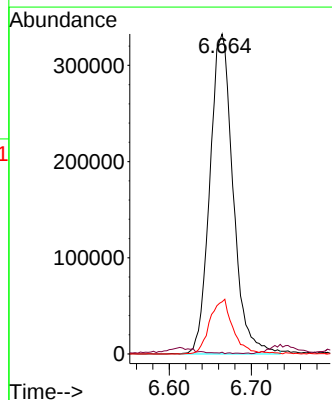
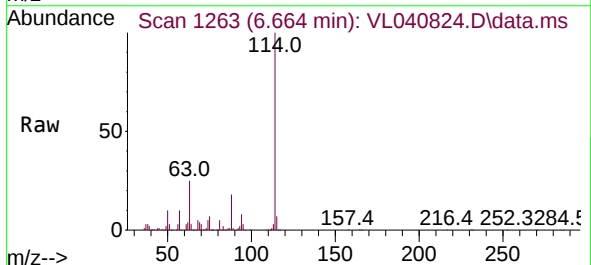
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2

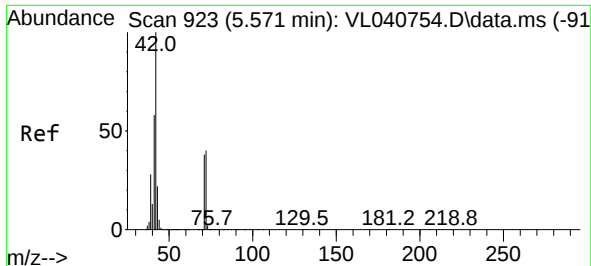
Tgt Ion: 78 Resp: 98173
Ion Ratio Lower Upper
78 100
77 15.4 18.4 27.6#
50 15.6 15.0 22.4



#39
1,2-Dichloropropane
Concen: 8.338 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.418 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 63 Resp: 655799
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 16.3 55.7 83.5#

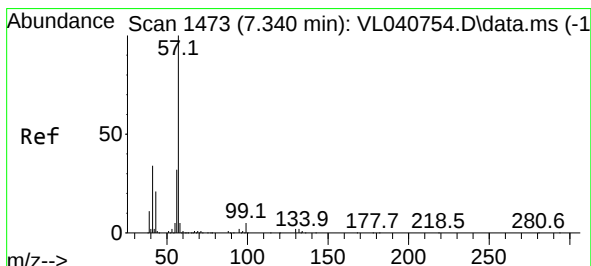
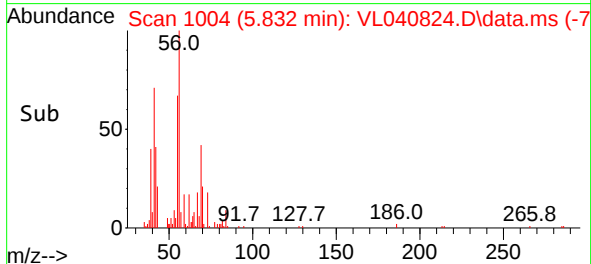
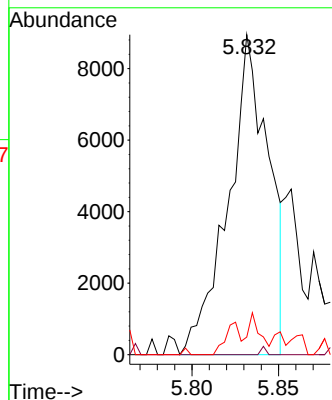
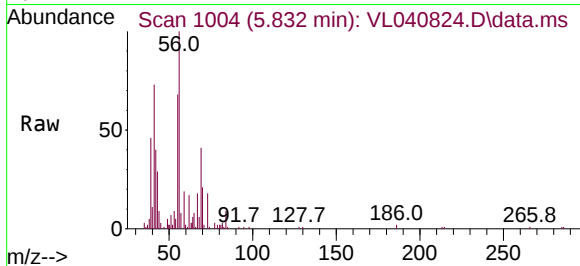




#41
Tetrahydrofuran
Concen: 0.176 ppbv
RT: 5.832 min Scan# 1004
Delta R.T. 0.261 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

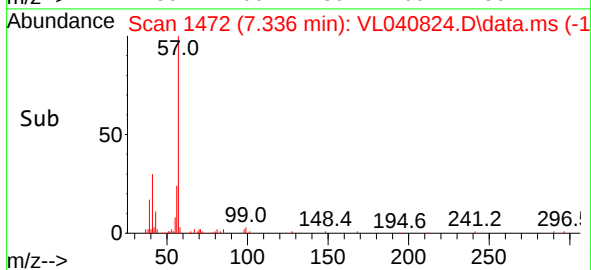
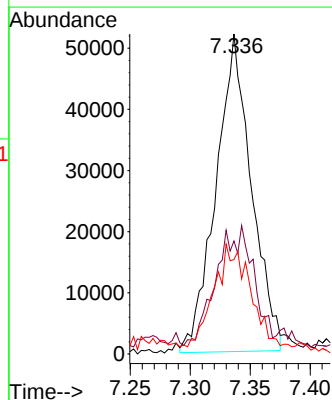
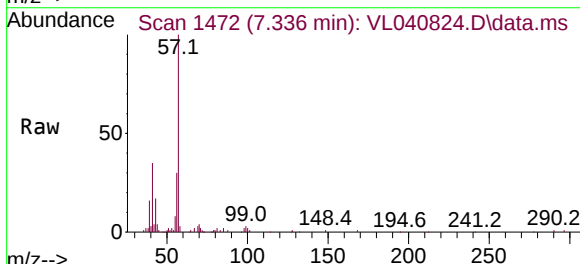
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2

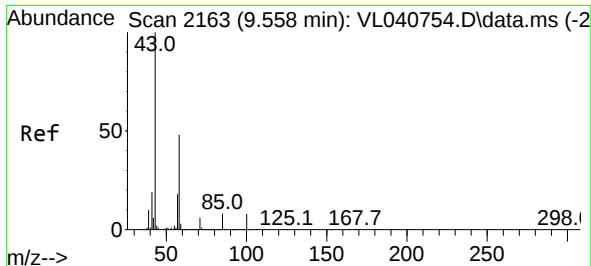
Tgt Ion: 42 Resp: 14417
Ion Ratio Lower Upper
42 100
72 2.1 31.1 46.7#
71 0.0 29.7 44.5#



#44
2,2,4-Trimethylpentane
Concen: 0.314 ppbv
RT: 7.336 min Scan# 1472
Delta R.T. 0.003 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 57 Resp: 106956
Ion Ratio Lower Upper
57 100
41 50.6 27.4 41.0#
56 40.8 25.0 37.6#

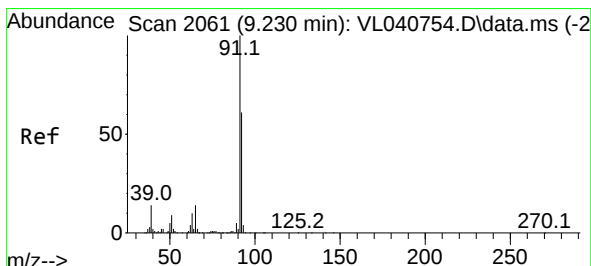
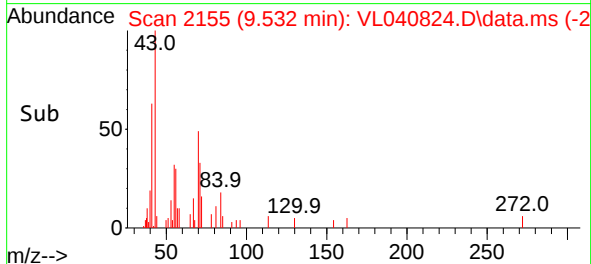
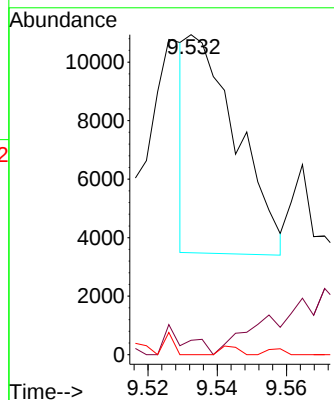
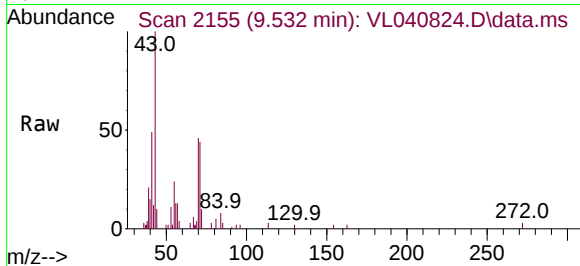




#51
2-Hexanone
Concen: 0.048 ppbv
RT: 9.532 min Scan# 2163
Delta R.T. -0.016 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

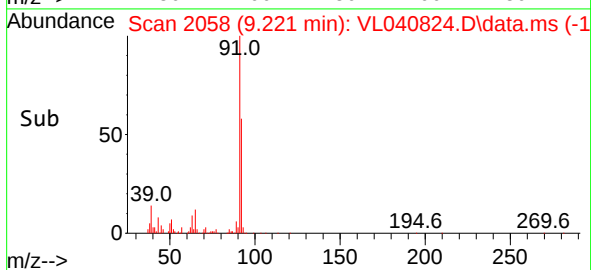
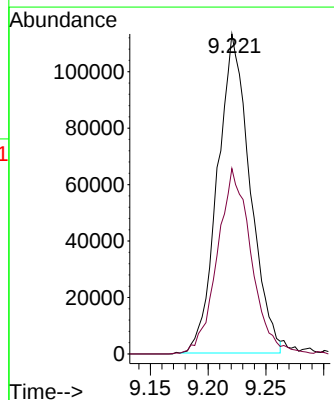
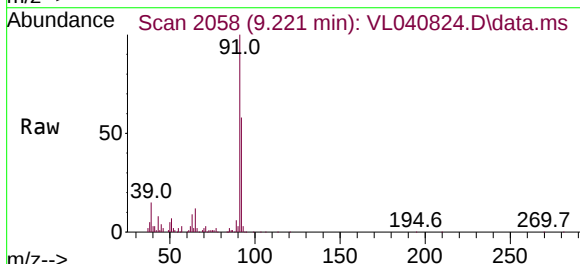
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2

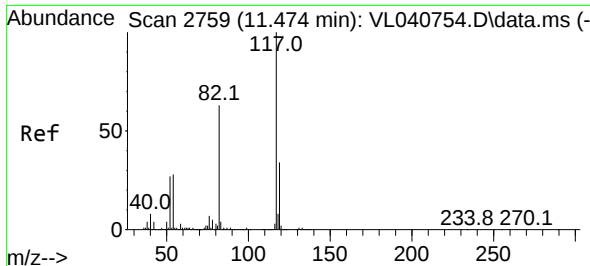
Tgt Ion: 43 Resp: 7433
Ion Ratio Lower Upper
43 100
58 0.0 38.6 58.0#
98 0.0 0.0 0.0



#53
Toluene
Concen: 0.925 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 91 Resp: 221506
Ion Ratio Lower Upper
91 100
92 60.9 50.2 75.2

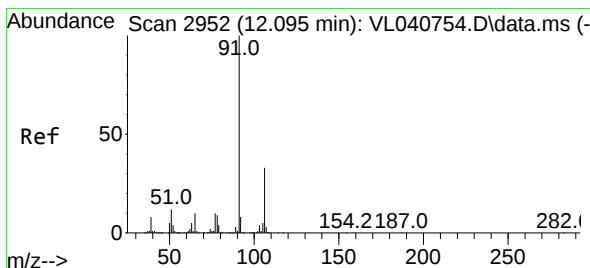
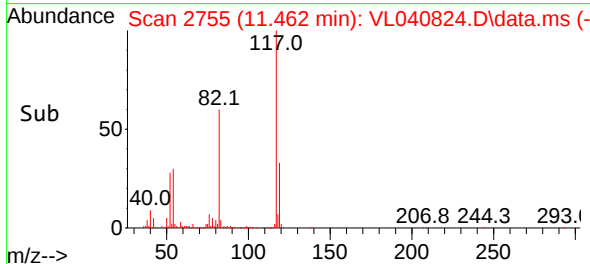
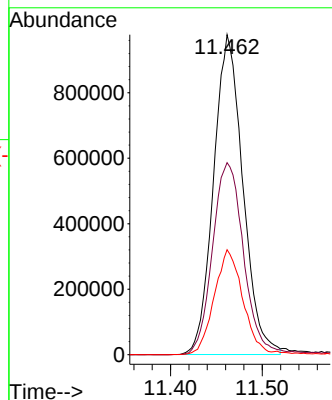
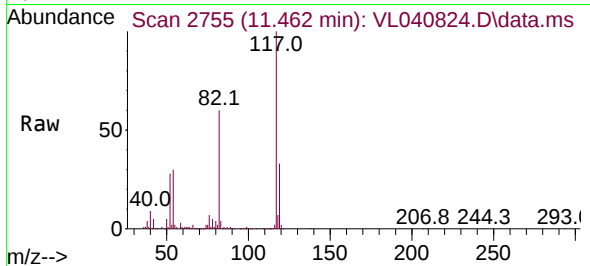




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

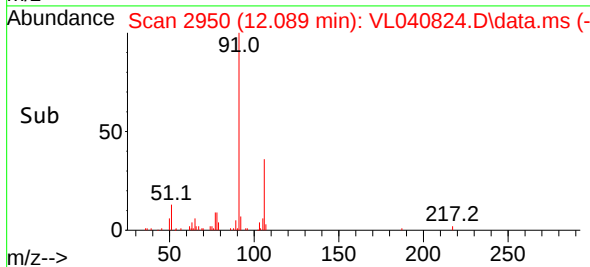
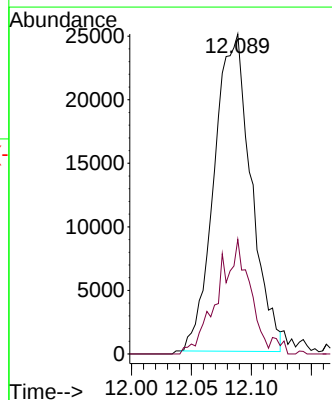
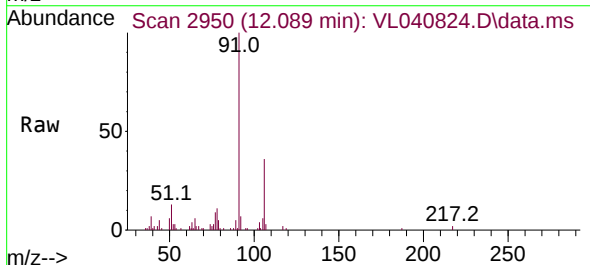
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2

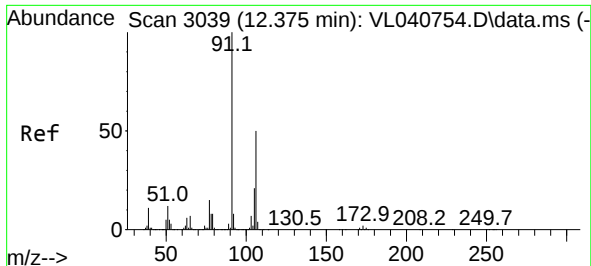
Tgt Ion:117 Resp: 2168175
Ion Ratio Lower Upper
117 100
82 65.2 46.6 70.0
119 32.9 26.0 39.0



#58
Ethyl Benzene
Concen: 0.196 ppbv
RT: 12.089 min Scan# 2950
Delta R.T. 0.007 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 91 Resp: 53390
Ion Ratio Lower Upper
91 100
106 36.1 26.7 40.1





#59

m/p-Xylene

Concen: 0.314 ppbv

RT: 12.346 min Scan# 3039

Delta R.T. -0.022 min

Lab File: VL040824.D

Acq: 8 Nov 2023 23:56

Instrument :

MSVOA_1

ClientSampleId :

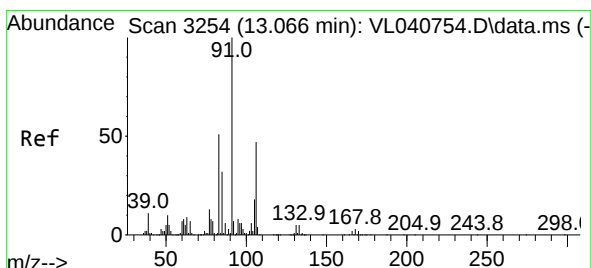
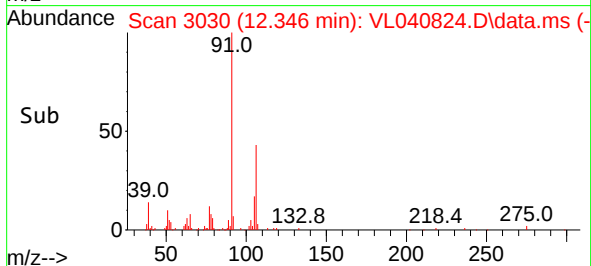
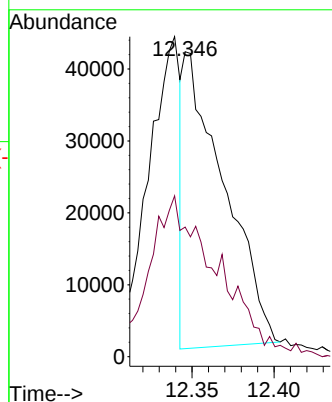
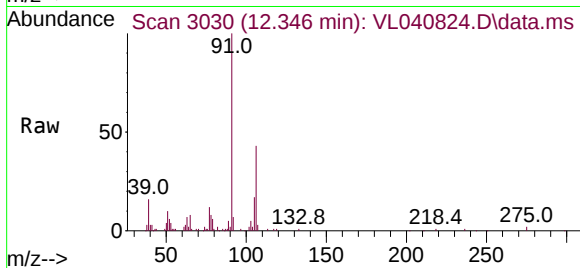
NT-IA-2

Tgt Ion: 91 Resp: 70559

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#



#60

o-Xylene

Concen: 0.149 ppbv

RT: 13.056 min Scan# 3251

Delta R.T. 0.003 min

Lab File: VL040824.D

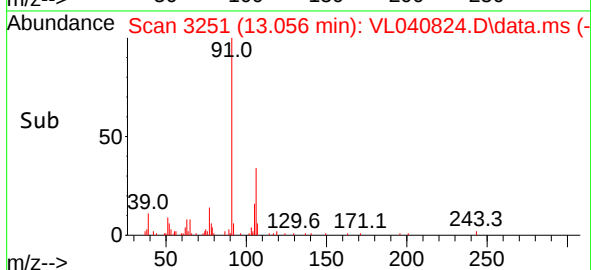
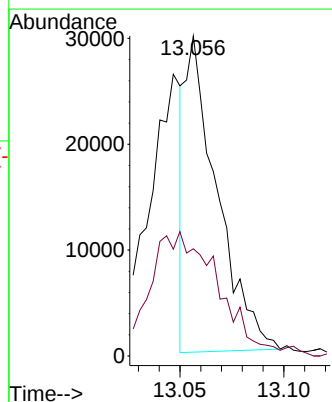
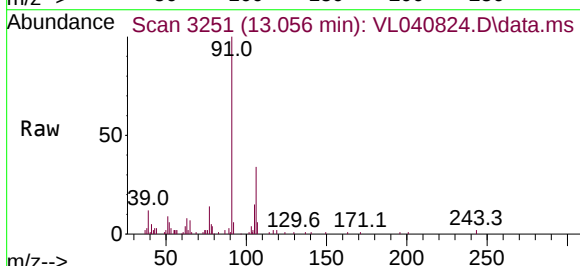
Acq: 8 Nov 2023 23:56

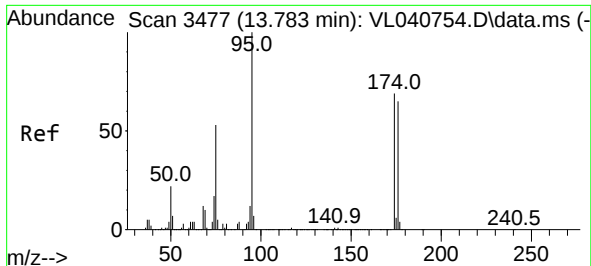
Tgt Ion: 91 Resp: 31825

Ion Ratio Lower Upper

91 100

106 0.0 23.5 70.5#

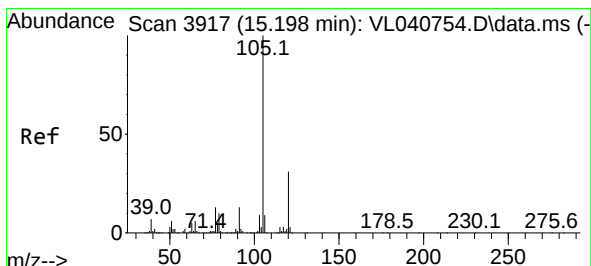
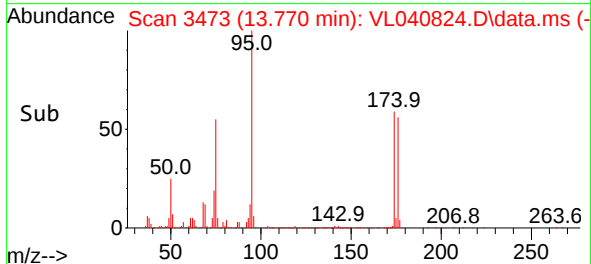
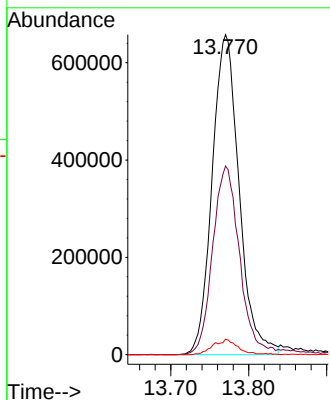
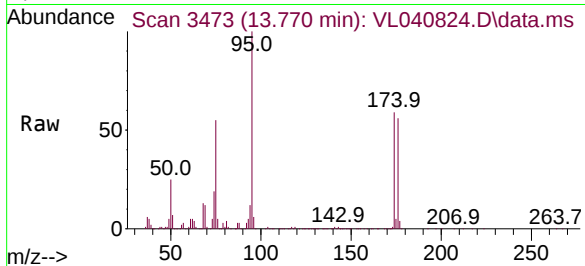




#68
1-Bromo-4-Fluorobenzene
Concen: 9.913 ppbv
RT: 13.770 min Scan# 3477
Delta R.T. 0.000 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

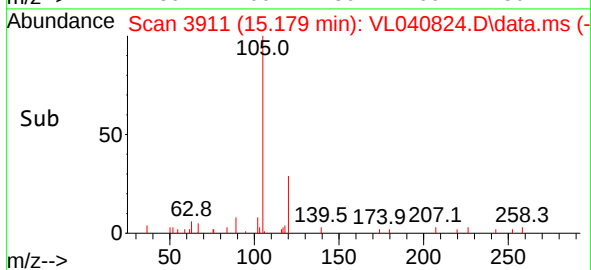
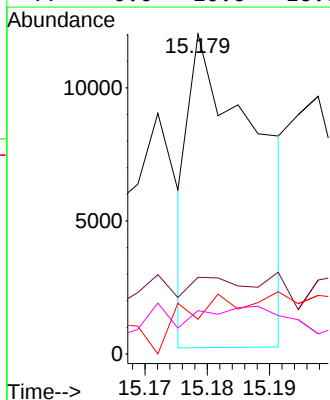
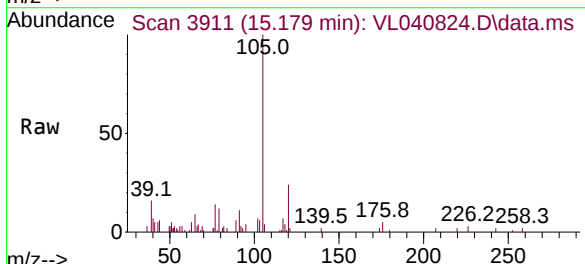
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2

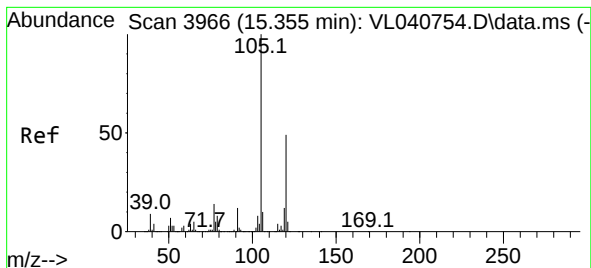
Tgt Ion: 95 Resp: 1581551
Ion Ratio Lower Upper
95 100
174 60.7 54.7 82.1
175 4.6 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 15.179 min Scan# 3911
Delta R.T. -0.006 min
Lab File: VL040824.D
Acq: 8 Nov 2023 23:56

Tgt Ion: 105 Resp: 8796
Ion Ratio Lower Upper
105 100
120 0.0 25.0 37.4#
91 0.0 9.8 14.8#
77 0.0 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.047 ppbv

RT: 15.342 min Scan# 3966

Delta R.T. 0.000 min

Lab File: VL040824.D

Acq: 8 Nov 2023 23:56

Instrument :

MSVOA_1

ClientSampleId :

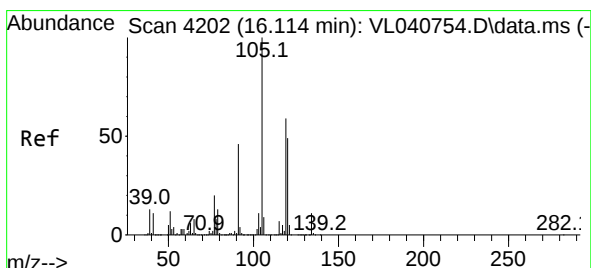
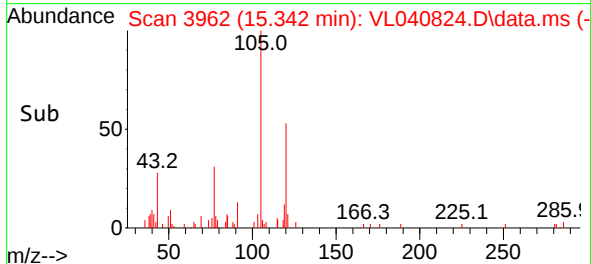
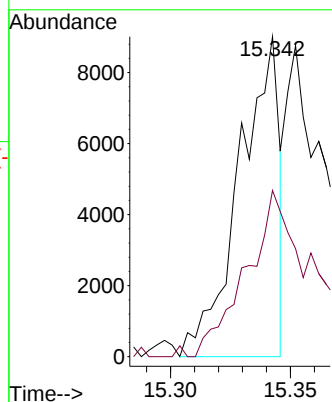
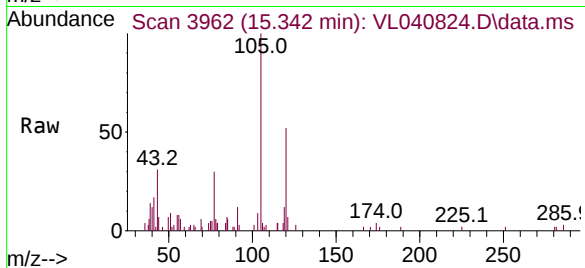
NT-IA-2

Tgt Ion:105 Resp: 10394

Ion Ratio Lower Upper

105 100

120 48.5 39.4 59.2



#74

1,2,4-Trimethylbenzene

Concen: 0.290 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.000 min

Lab File: VL040824.D

Acq: 8 Nov 2023 23:56

Tgt Ion:105 Resp: 69971

Ion Ratio Lower Upper

105 100

120 37.8 39.4 59.2#

91 5.5 38.6 58.0#

77 11.1 16.6 25.0#

