

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042432.D
 Acq On : 28 Apr 2025 18:35
 Operator : SY/MD
 Sample : Q1880-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-DUP01-20250423

Quant Time: Apr 29 01:41:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

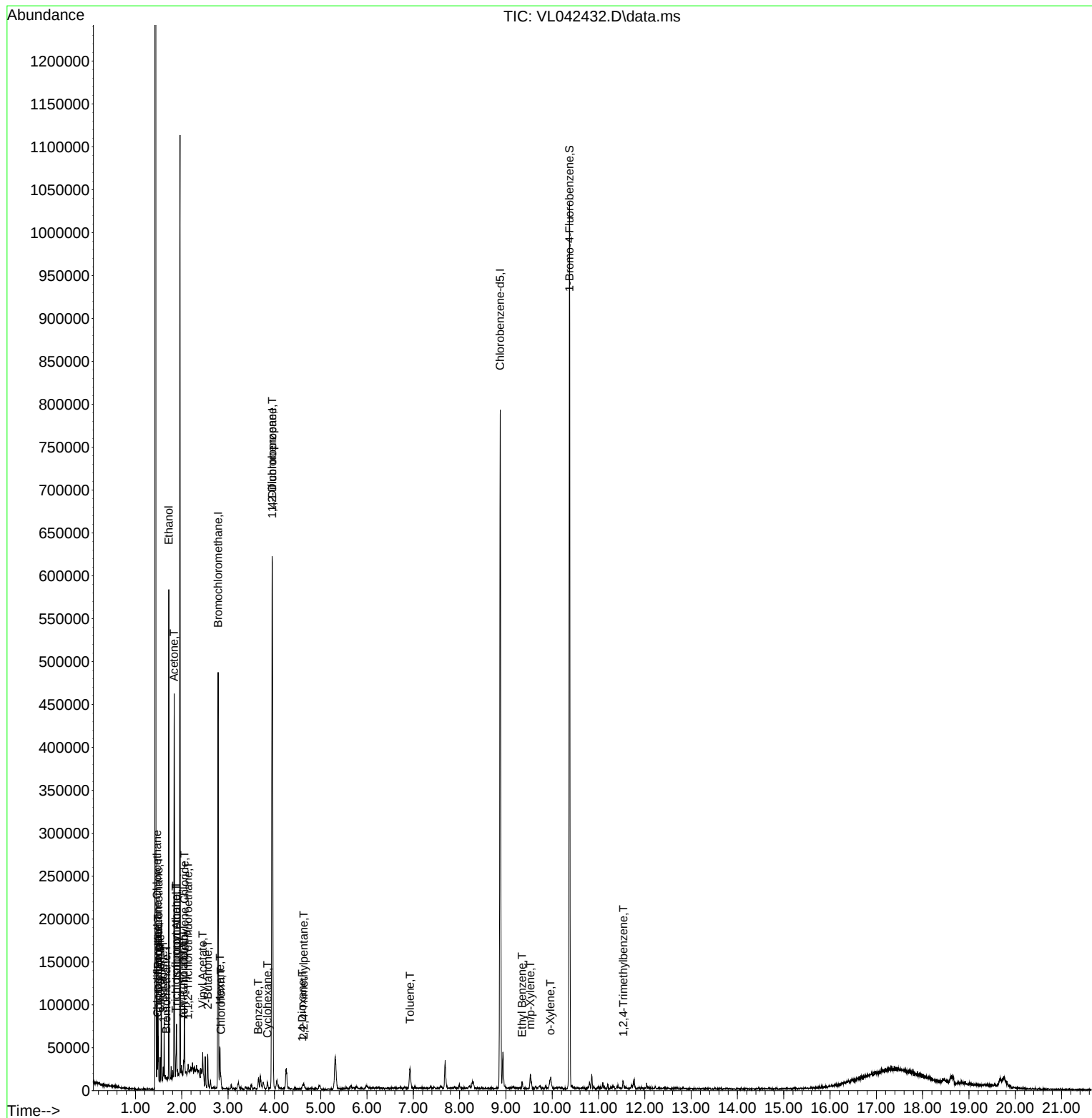
Internal Standards						
1) Bromochloromethane	2.784	49	122971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	342098	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	294438	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	255363	10.554	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	11450	0.527	ppbv	98
3) Chlorodifluoromethane	1.473	51	11870	0.574	ppbv #	87
4) Chloromethane	1.531	50	7038	0.819	ppbv	98
6) Bromomethane	1.667	94	157	0.039	ppbv #	25
7) Chloroethane	1.467	64	10208	3.016	ppbv #	44
9) Propene	1.486	41	5988	0.636	ppbv #	15
11) Trichlorofluoromethane	1.875	101	5413	0.262	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.137	101	1248	0.074	ppbv	95
13) Ethanol	1.719	45	184120	122.946	ppbv	76
15) Acetone	1.832	43	208956	10.380	ppbv	94
16) 1,3-Butadiene	1.599	39	1376	0.143	ppbv #	9
17) tert-Butyl alcohol	2.043	59	2487	0.100	ppbv #	71
19) Isopropyl Alcohol	1.884	45	25110	2.245	ppbv #	1
20) Methylene Chloride	2.059	84	8748	1.110	ppbv	96
21) Allyl Chloride	2.036	41	3019	0.217	ppbv #	79
23) Vinyl Acetate	2.451	43	17620	2.162	ppbv #	81
26) Hexane	2.826	57	10774	0.536	ppbv #	36
29) Chloroform	2.849	83	3495	0.123	ppbv #	69
30) Cyclohexane	3.849	84	705	0.043	ppbv #	4
34) 2-Butanone	2.561	43	24147	0.892	ppbv	100
36) Benzene	3.651	78	4659	0.126	ppbv	95
39) 1,2-Dichloropropane	3.952	63	99107	7.208	ppbv #	23
40) 1,4-Dioxane	4.600	88	433	0.057	ppbv #	15
44) 2,2,4-Trimethylpentane	4.635	57	2253	0.035	ppbv #	2
53) Toluene	6.930	91	10296	0.233	ppbv #	42
58) Ethyl Benzene	9.348	91	3441	0.059	ppbv #	45
59) m/p-Xylene	9.526	91	9433	0.201	ppbv	95
60) o-Xylene	9.960	91	3674	0.078	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	2355	0.039	ppbv #	70

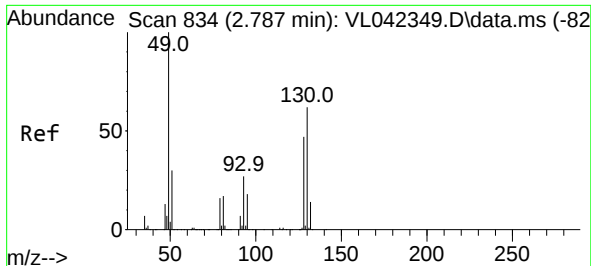
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EBR-P02-SC-DUP01-20250423

Quant Time: Apr 29 01:41:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
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QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

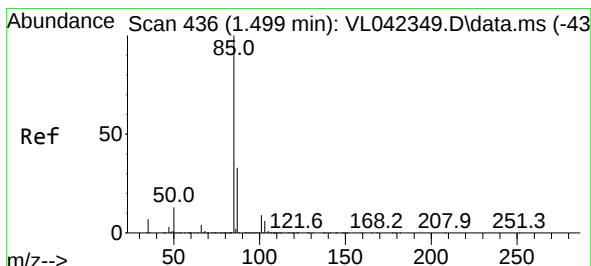
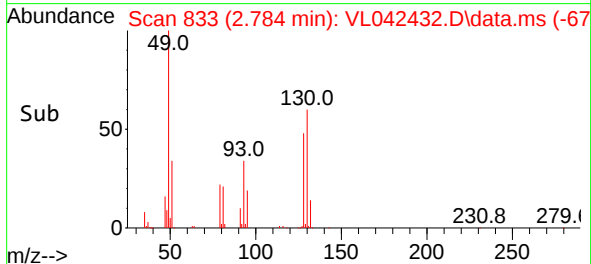
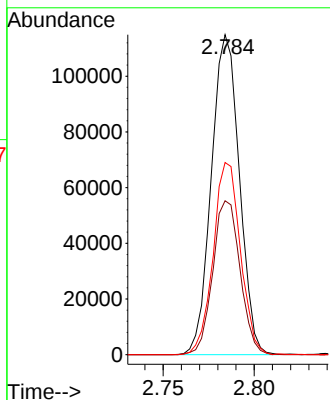
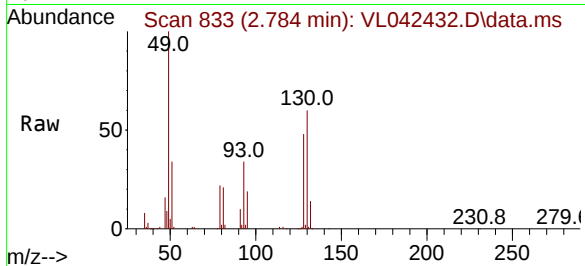




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

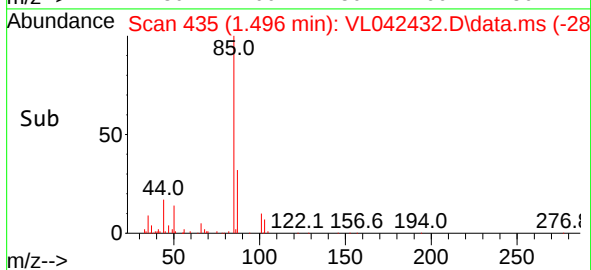
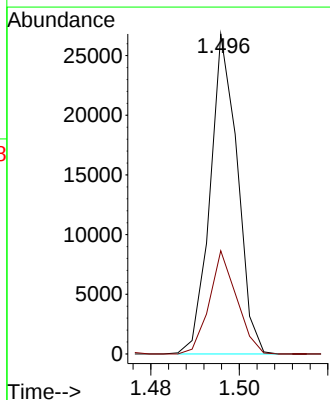
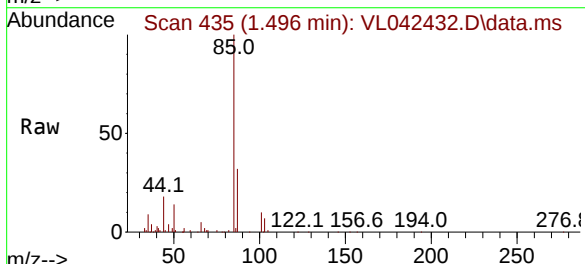
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-DUP01-20250423

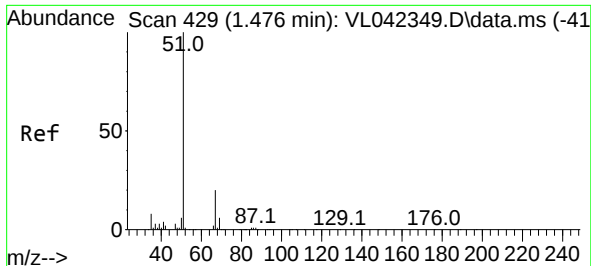
Tgt Ion: 49 Resp: 122971
Ion Ratio Lower Upper
49 100
128 46.9 22.8 68.4
130 58.4 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.527 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 85 Resp: 11450
Ion Ratio Lower Upper
85 100
87 32.2 26.6 39.8

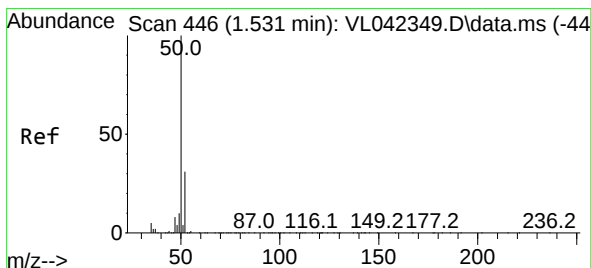
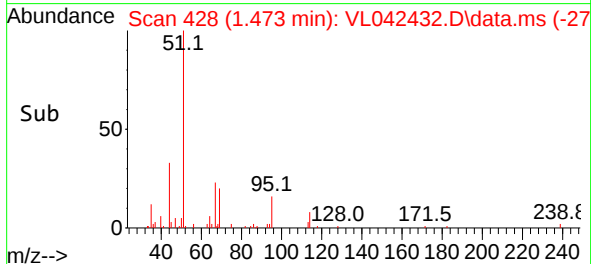
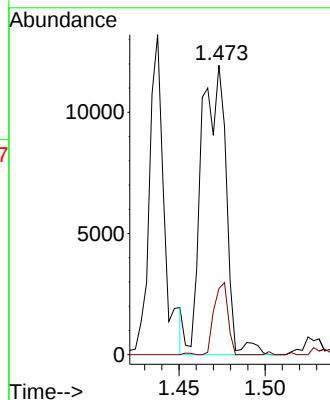
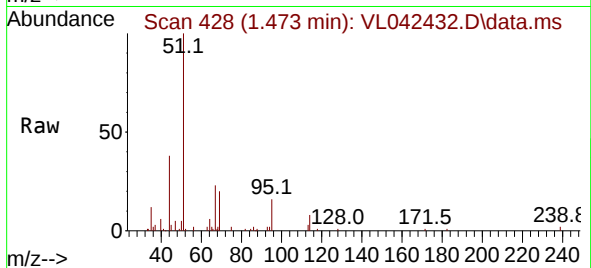




#3
Chlorodifluoromethane
Concen: 0.574 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

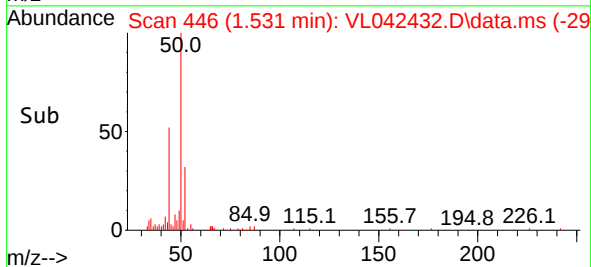
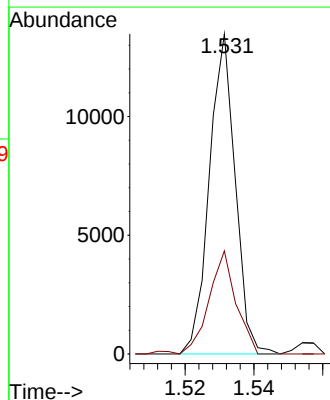
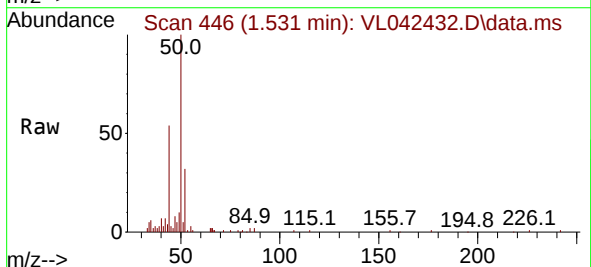
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-DUP01-20250423

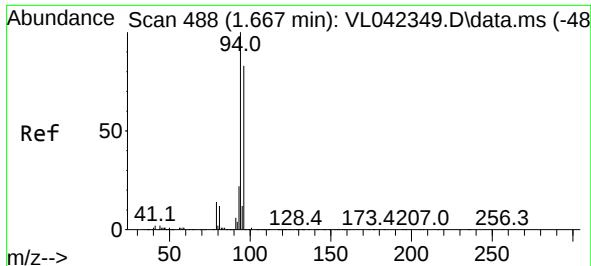
Tgt Ion: 51 Resp: 11870
Ion Ratio Lower Upper
51 100
67 14.1 16.2 24.4#



#4
Chloromethane
Concen: 0.819 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 50 Resp: 7038
Ion Ratio Lower Upper
50 100
52 32.2 24.7 37.1

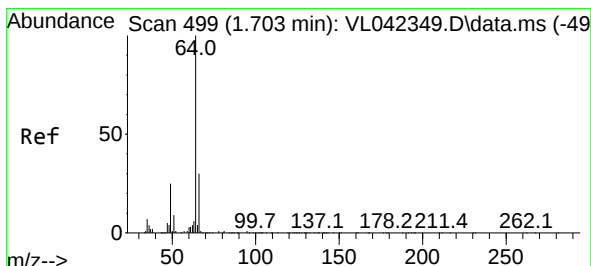
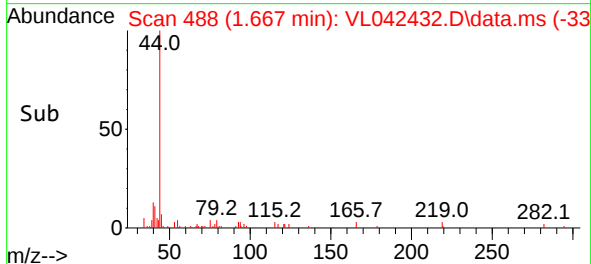
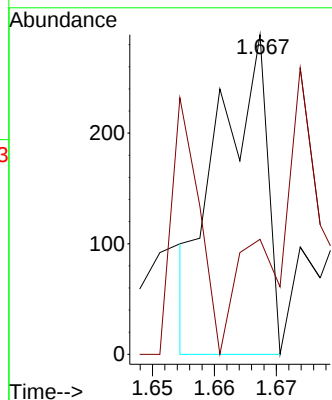
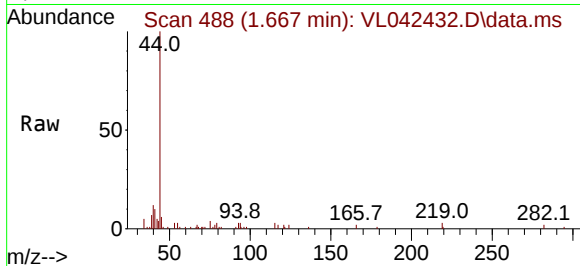




#6
Bromomethane
Concen: 0.039 ppbv
RT: 1.667 min Scan# 411
Delta R.T. 0.000 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

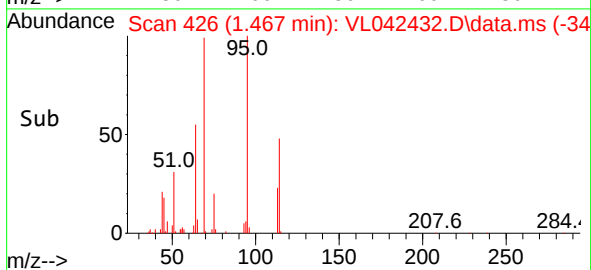
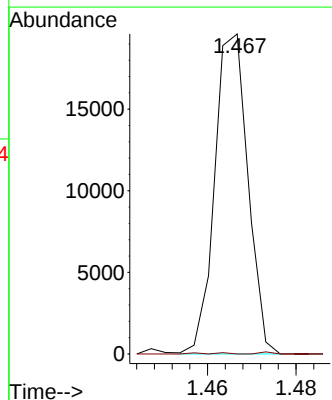
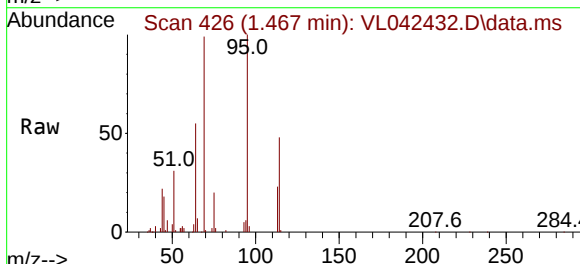
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-DUP01-20250423

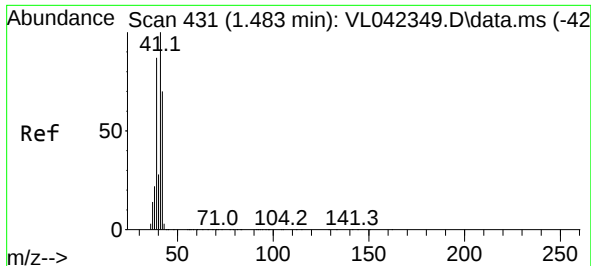
Tgt Ion: 94 Resp: 157
Ion Ratio Lower Upper
94 100
96 14.9 66.2 99.2#



#7
Chloroethane
Concen: 3.016 ppbv
RT: 1.467 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 64 Resp: 10208
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#





#9

Propene

Concen: 0.636 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

Instrument :

MSVOA_L

ClientSampleId :

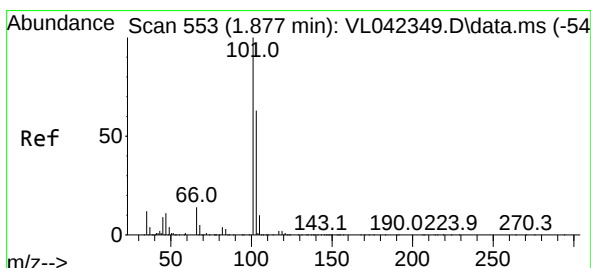
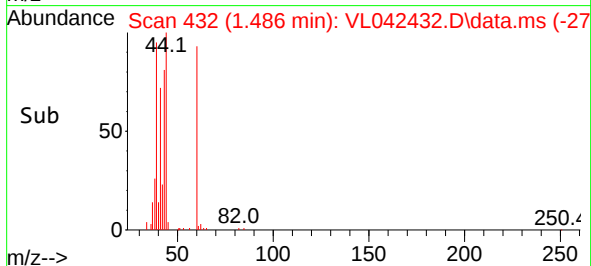
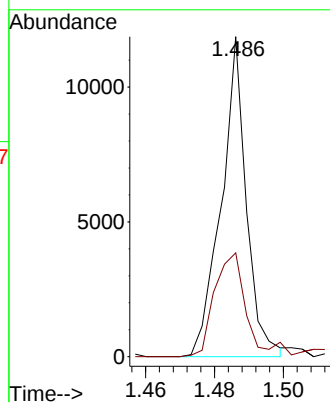
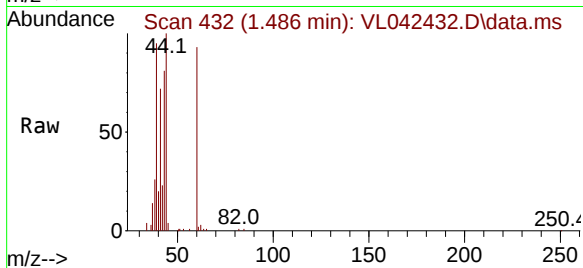
EBR-P02-SC-DUP01-20250423

Tgt Ion: 41 Resp: 5988

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.262 ppbv

RT: 1.875 min Scan# 552

Delta R.T. -0.003 min

Lab File: VL042432.D

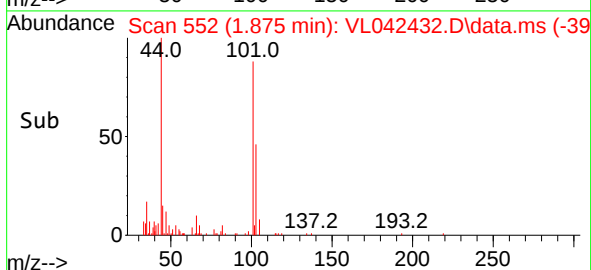
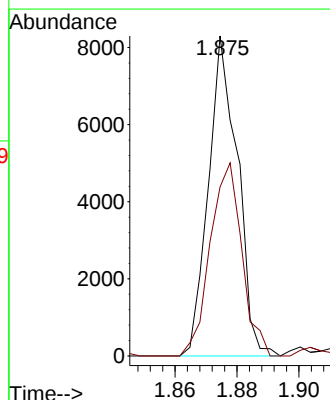
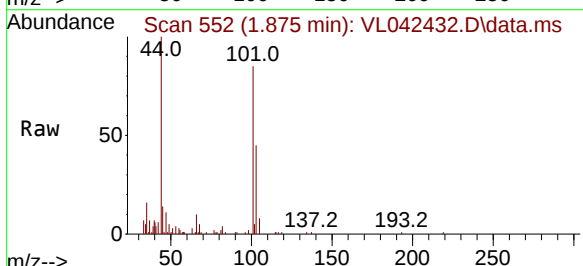
Acq: 28 Apr 2025 18:35

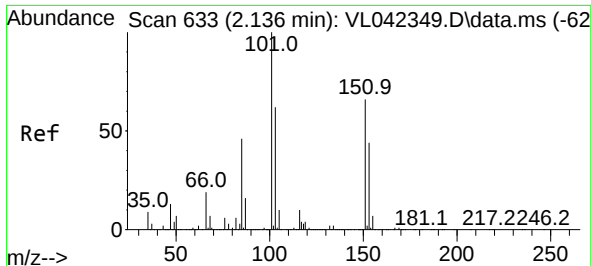
Tgt Ion: 101 Resp: 5413

Ion Ratio Lower Upper

101 100

103 52.8 50.1 75.1

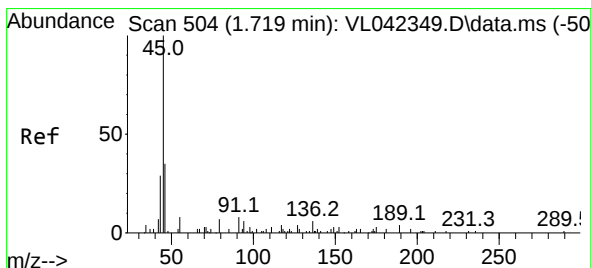
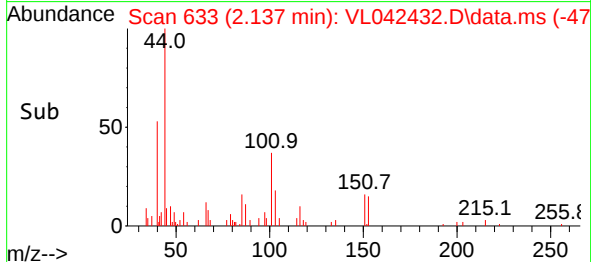
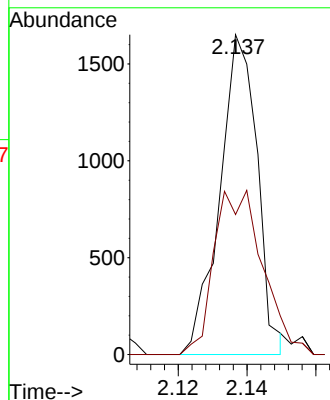
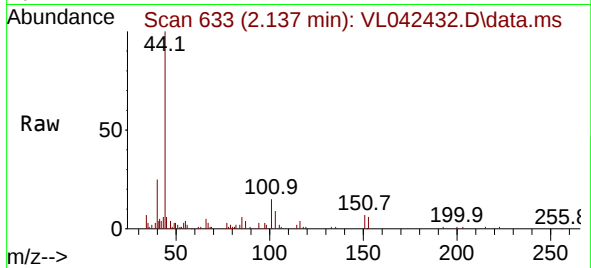




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.137 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

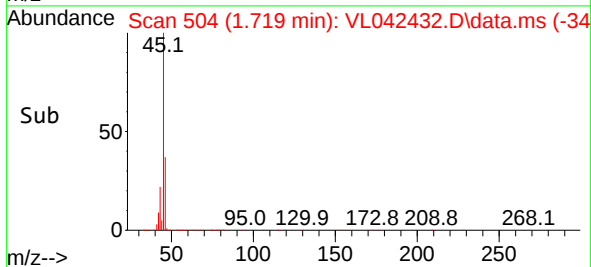
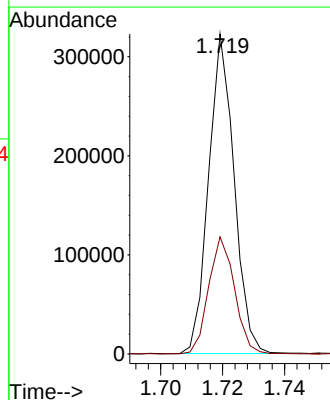
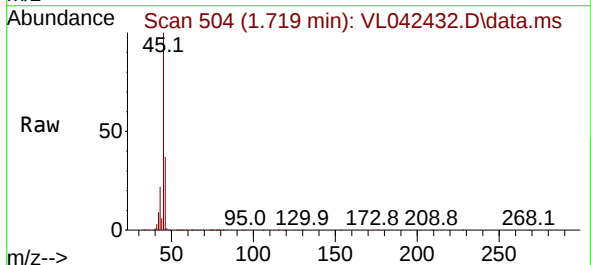
Instrument :
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ClientSampleId :
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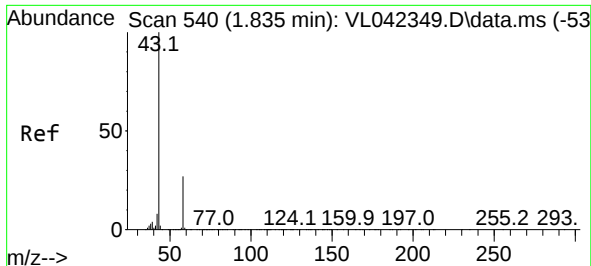
Tgt Ion:101 Resp: 1248
Ion Ratio Lower Upper
101 100
151 66.9 57.0 85.6



#13
Ethanol
Concen: 122.946 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 45 Resp: 184120
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7

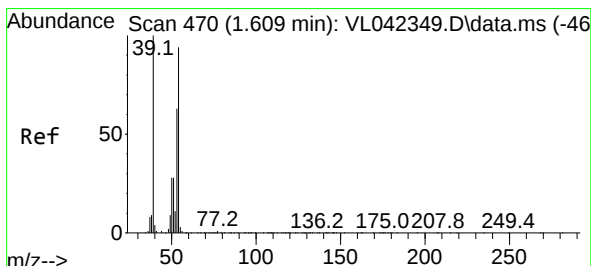
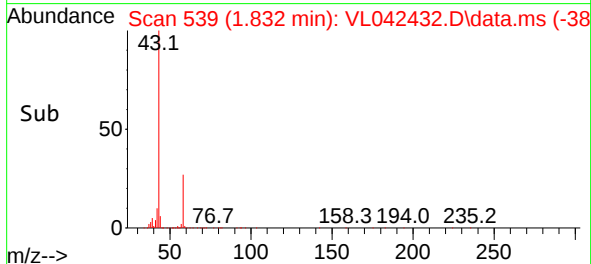
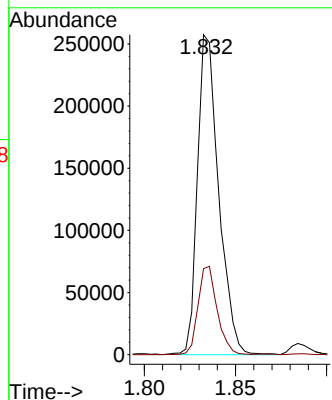
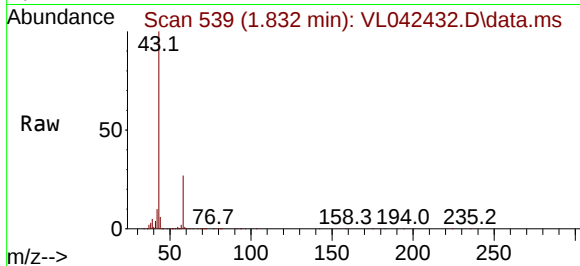




#15
Acetone
Concen: 10.380 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

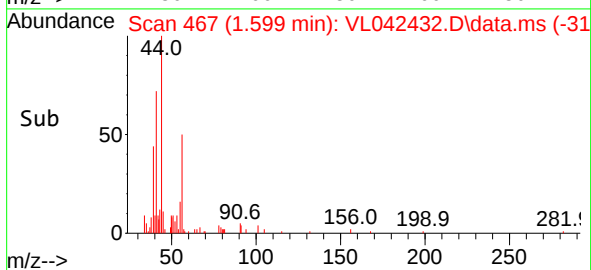
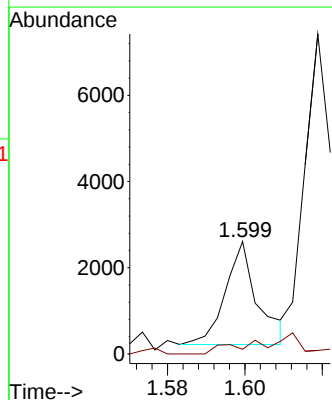
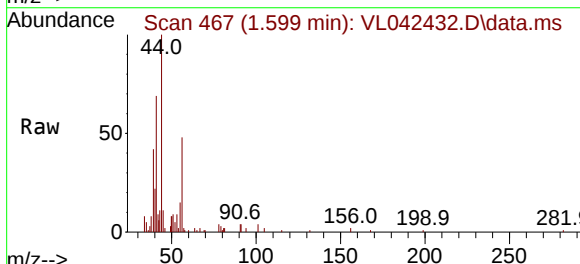
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MSVOA_L
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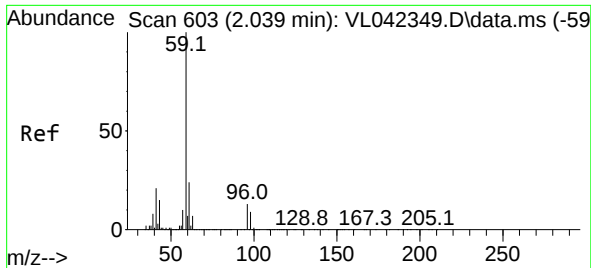
Tgt Ion: 43 Resp: 208956
Ion Ratio Lower Upper
43 100
58 25.1 22.4 33.6



#16
1,3-Butadiene
Concen: 0.143 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.009 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 39 Resp: 1376
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#

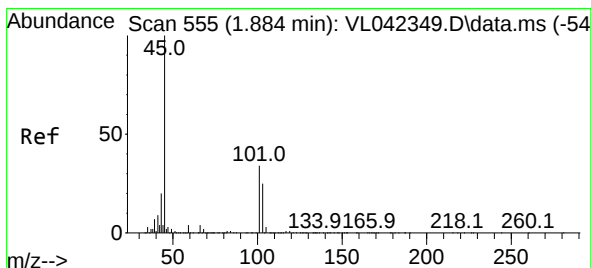
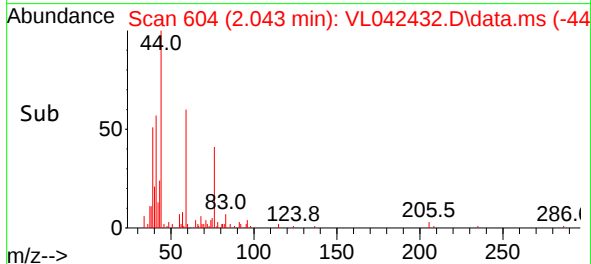
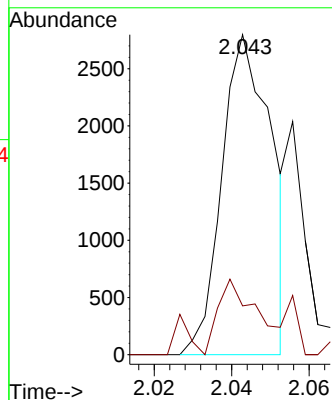
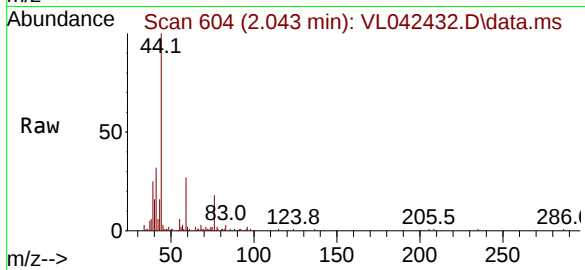




#17
tert-Butyl alcohol
Concen: 0.100 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

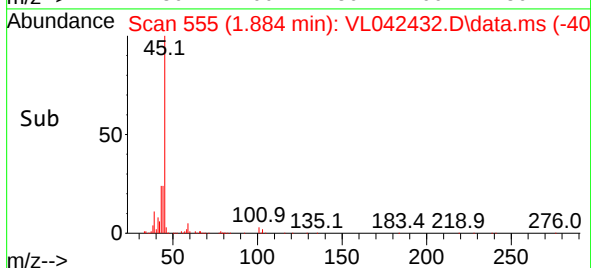
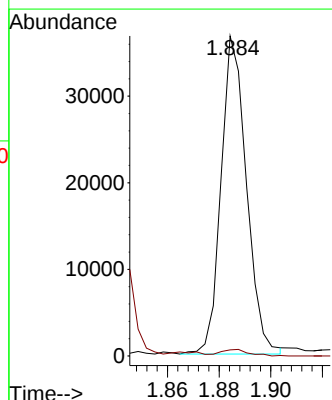
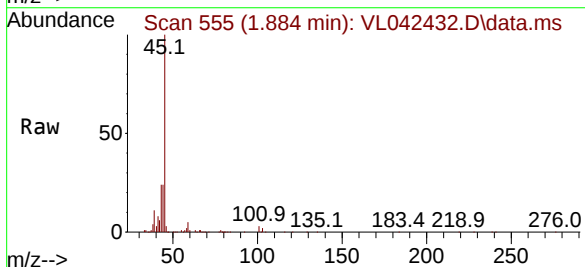
Instrument : MSVOA_1
ClientSampleId : EBR-P02-SC-DUP01-20250423

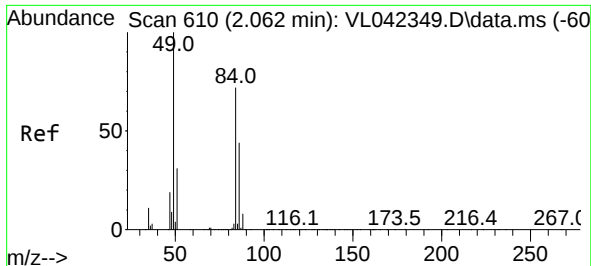
Tgt Ion: 59 Resp: 2487
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 2.245 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 45 Resp: 25110
Ion Ratio Lower Upper
45 100
58 208.6 34.5 51.7#





#20

Methylene Chloride

Concen: 1.110 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.003 min

Lab File: VL042432.D

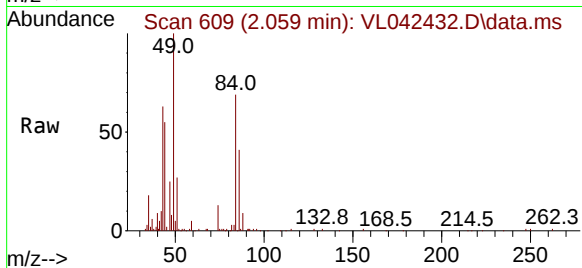
Acq: 28 Apr 2025 18:35

Instrument :

MSVOA_L

ClientSampleId :

EBR-P02-SC-DUP01-20250423



Tgt Ion: 84 Resp: 8748

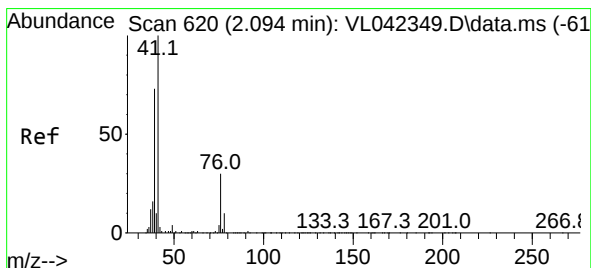
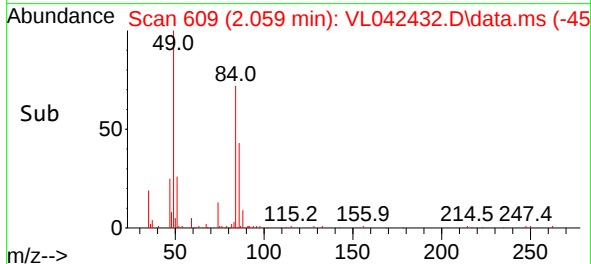
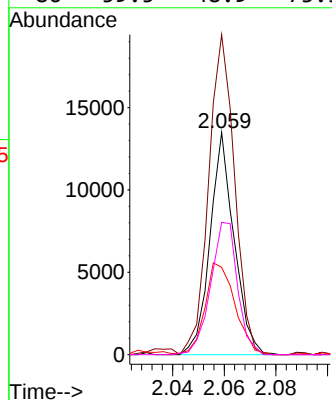
Ion Ratio Lower Upper

84 100

49 144.0 111.6 167.4

51 39.3 35.1 52.7

86 59.5 48.9 73.3



#21

Allyl Chloride

Concen: 0.217 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.058 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

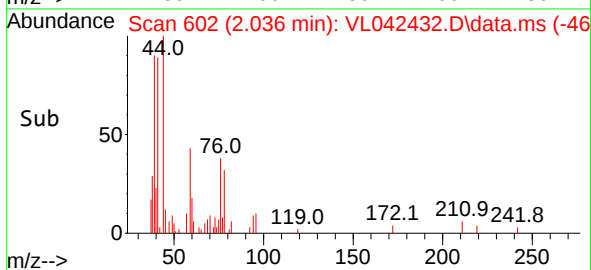
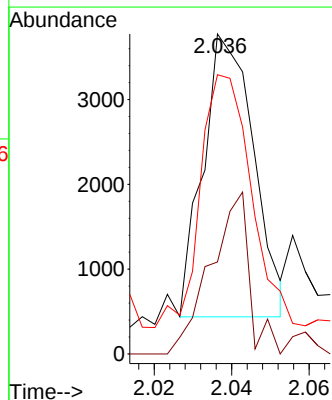
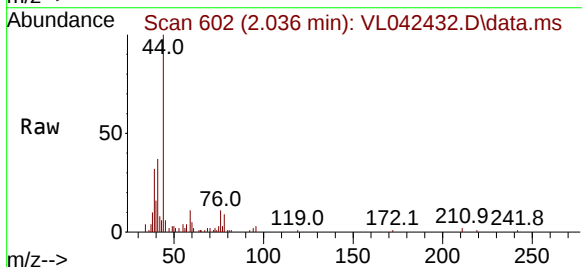
Tgt Ion: 41 Resp: 3019

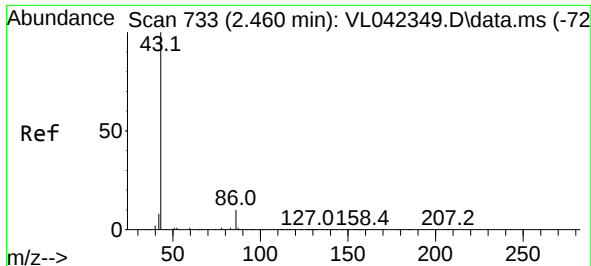
Ion Ratio Lower Upper

41 100

76 47.4 24.8 37.2#

39 90.5 60.6 90.8

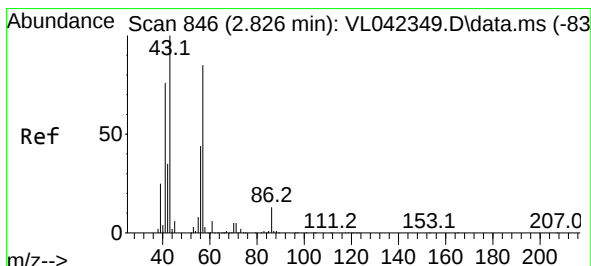
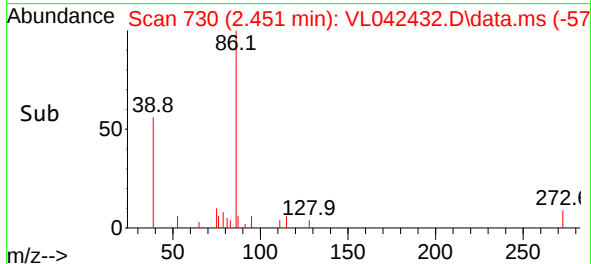
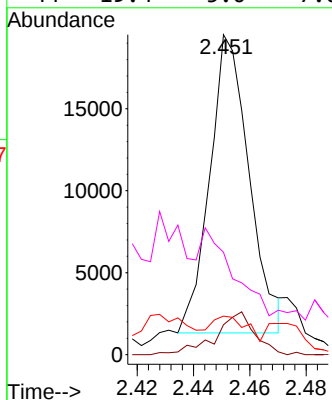
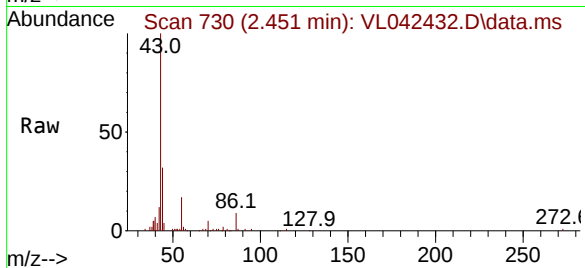




#23
 Vinyl Acetate
 Concen: 2.162 ppbv
 RT: 2.451 min Scan# 71
 Delta R.T. -0.009 min
 Lab File: VL042432.D
 Acq: 28 Apr 2025 18:35

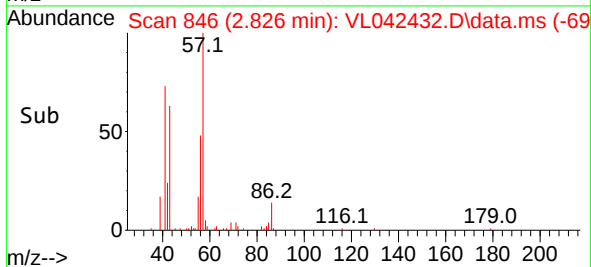
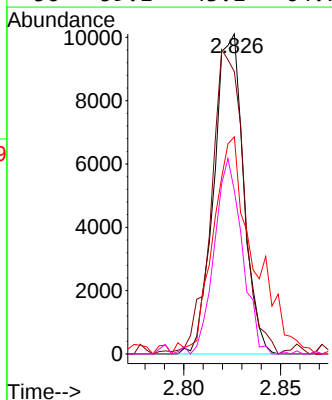
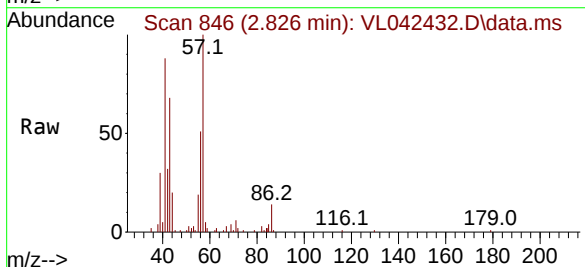
Instrument :
 MSVOA_1
 ClientSampleId :
 EBR-P02-SC-DUP01-20250423

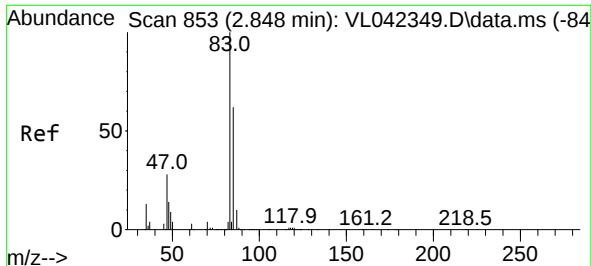
Tgt Ion: 43	Resp: 17620
Ion Ratio	Lower Upper
43 100	
86 9.1	6.5 9.7
42 2.5	7.8 11.8#
44 19.4	5.0 7.6#



#26
 Hexane
 Concen: 0.536 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.000 min
 Lab File: VL042432.D
 Acq: 28 Apr 2025 18:35

Tgt Ion: 57	Resp: 10774
Ion Ratio	Lower Upper
57 100	
41 107.7	77.9 116.9
43 89.7	208.4 312.6#
56 59.1	43.1 64.7





#29

Chloroform

Concen: 0.123 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

Instrument :

MSVOA_L

ClientSampleId :

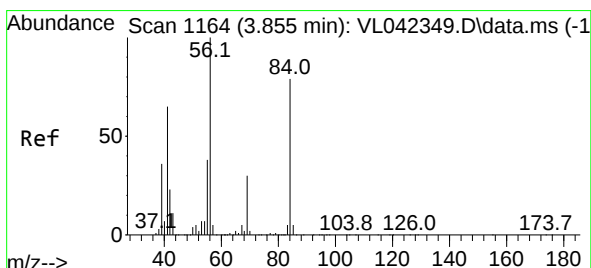
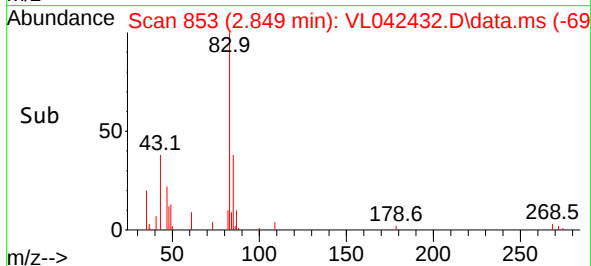
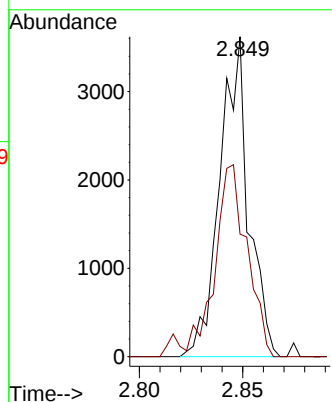
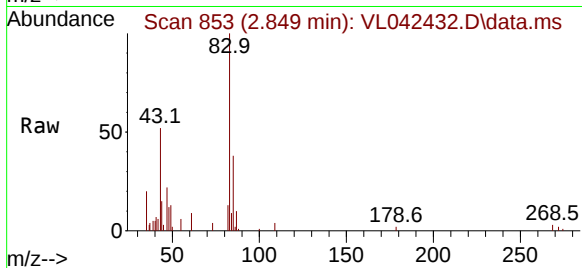
EBR-P02-SC-DUP01-20250423

Tgt Ion: 83 Resp: 3495

Ion Ratio Lower Upper

83 100

85 38.3 50.0 75.0#



#30

Cyclohexane

Concen: 0.043 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.006 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

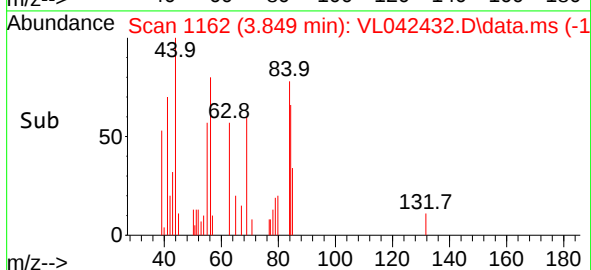
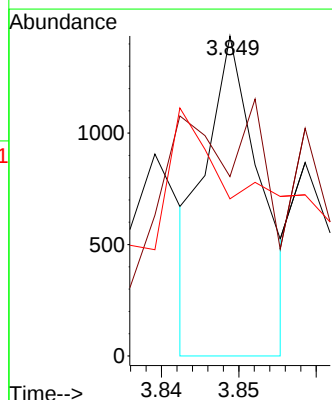
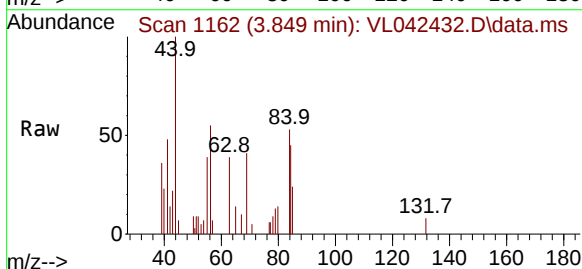
Tgt Ion: 84 Resp: 705

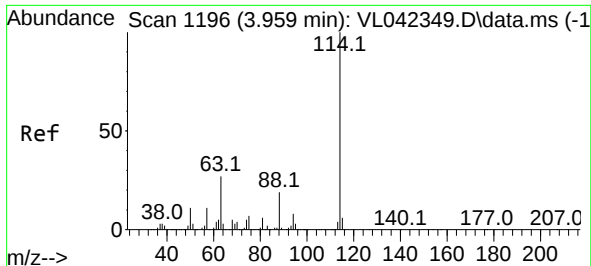
Ion Ratio Lower Upper

84 100

56 239.3 101.0 151.4#

41 0.0 67.4 101.0#

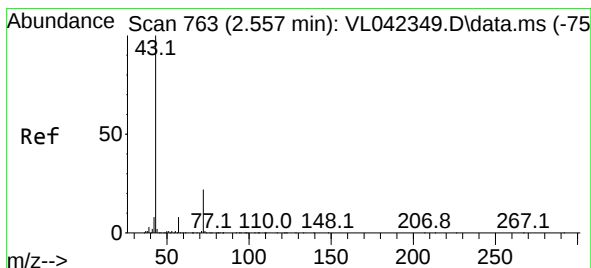
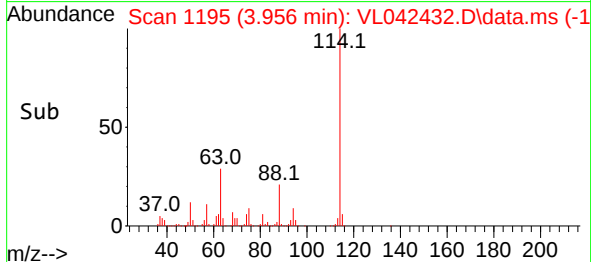
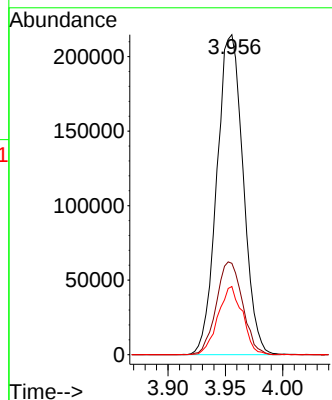
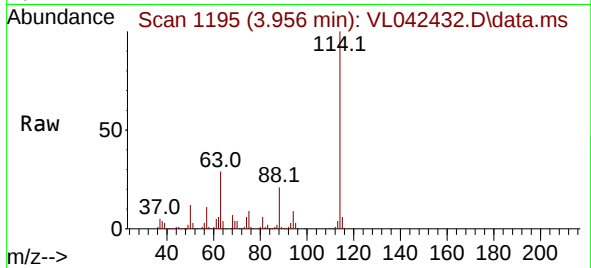




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

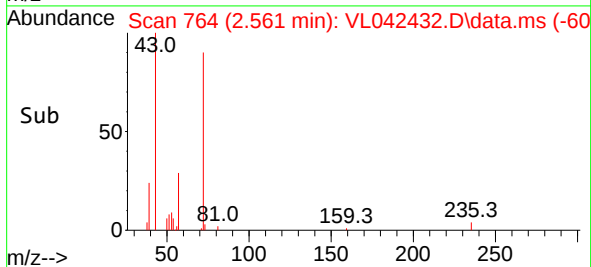
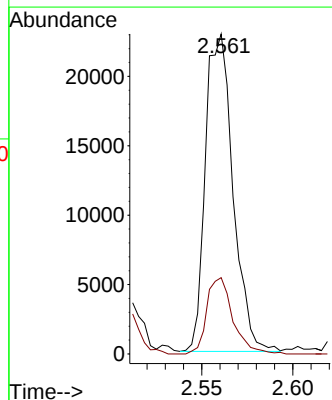
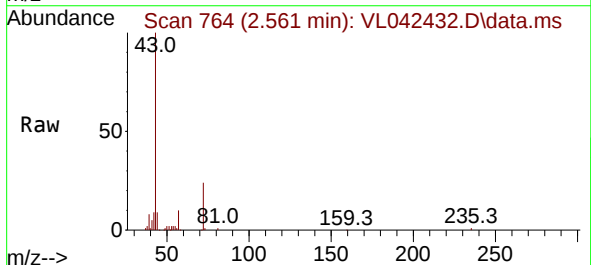
Instrument : MSVOA_1
ClientSampleId : EBR-P02-SC-DUP01-20250423

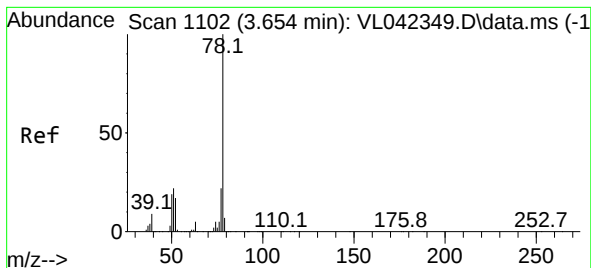
Tgt Ion:114 Resp: 342098
Ion Ratio Lower Upper
114 100
63 29.0 21.8 32.6
88 19.9 15.5 23.3



#34
2-Butanone
Concen: 0.892 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 43 Resp: 24147
Ion Ratio Lower Upper
43 100
72 22.8 18.2 27.2





#36

Benzene

Concen: 0.126 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

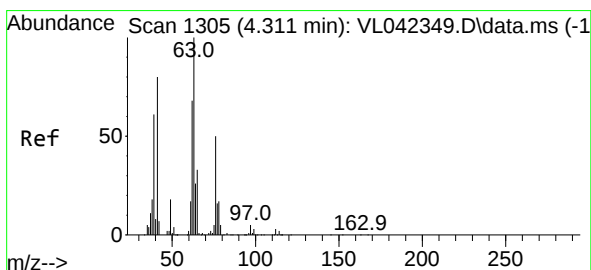
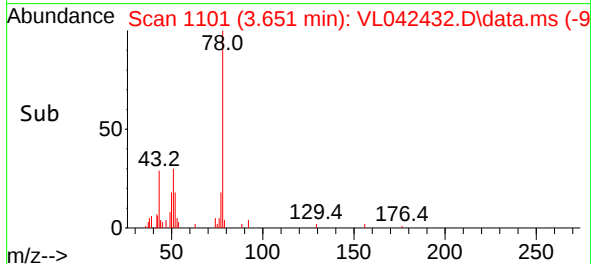
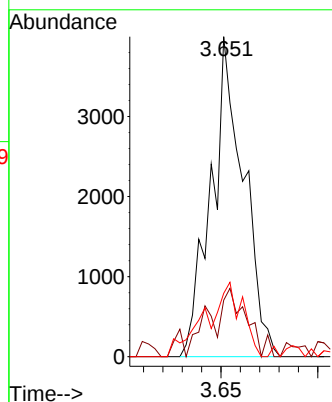
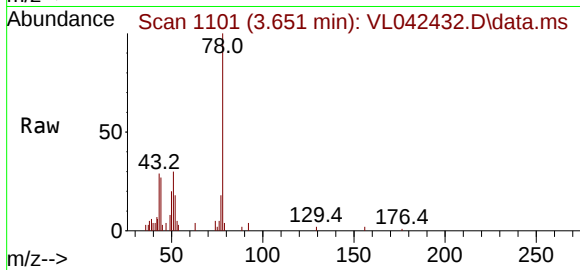
Instrument :

MSVOA_L

ClientSampleId :

EBR-P02-SC-DUP01-20250423

Tgt Ion: 78	Resp: 4659
Ion Ratio	Lower Upper
78 100	
77 17.6	17.4 26.0
50 19.8	15.5 23.3



#39

1,2-Dichloropropane

Concen: 7.208 ppbv

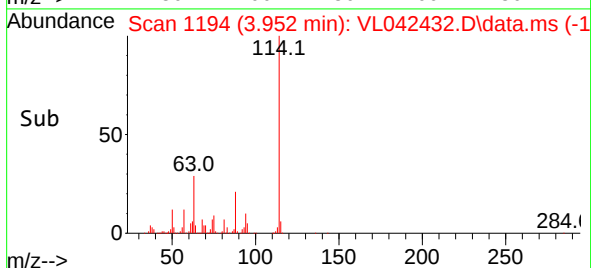
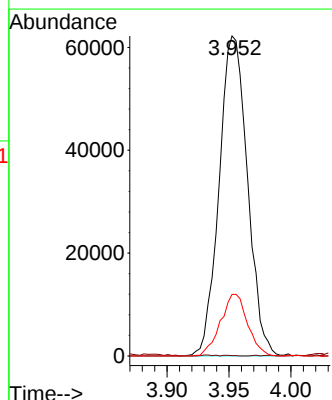
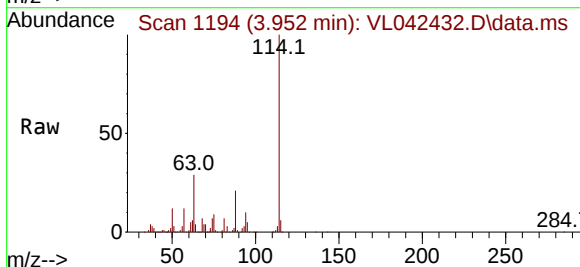
RT: 3.952 min Scan# 1194

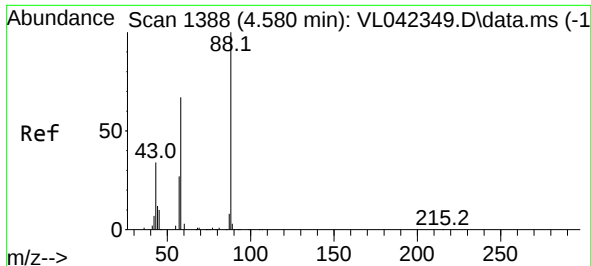
Delta R.T. -0.359 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

Tgt Ion: 63	Resp: 99107
Ion Ratio	Lower Upper
63 100	
41 0.1	64.2 96.2#
62 19.3	54.3 81.5#





#40

1,4-Dioxane

Concen: 0.057 ppbv

RT: 4.600 min Scan# 11

Delta R.T. 0.020 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

Instrument :

MSVOA_L

ClientSampleId :

EBR-P02-SC-DUP01-20250423

Tgt Ion: 88 Resp: 433

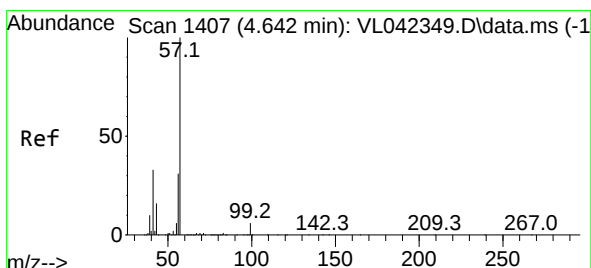
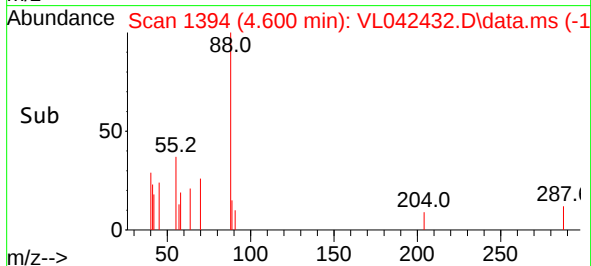
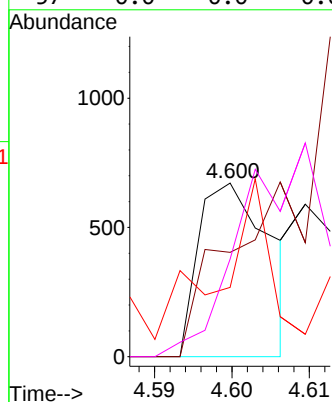
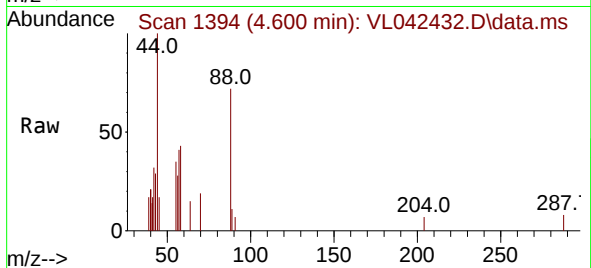
Ion Ratio Lower Upper

88 100

58 0.0 61.4 92.0#

43 69.7 23.2 34.8#

57 0.0 0.0 0.0



#44

2,2,4-Trimethylpentane

Concen: 0.035 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.006 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

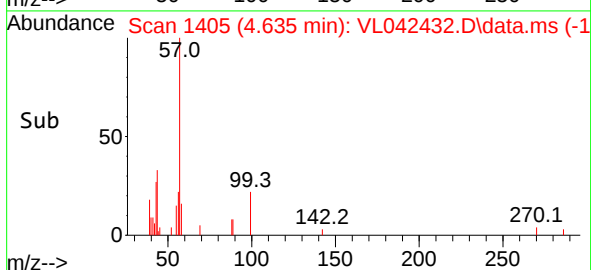
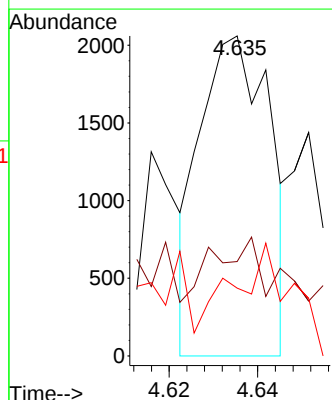
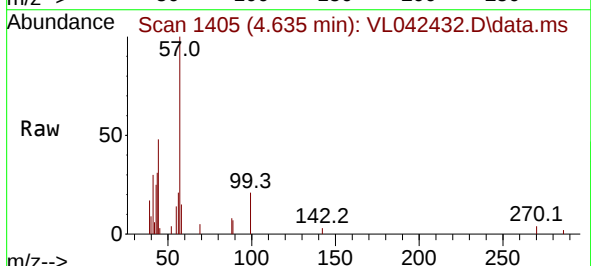
Tgt Ion: 57 Resp: 2253

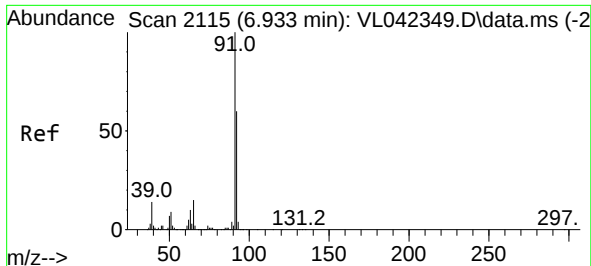
Ion Ratio Lower Upper

57 100

41 105.4 27.2 40.8#

56 71.5 25.7 38.5#





#53

Toluene

Concen: 0.233 ppbv

RT: 6.930 min Scan# 2115

Delta R.T. -0.003 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

Instrument :

MSVOA_L

ClientSampleId :

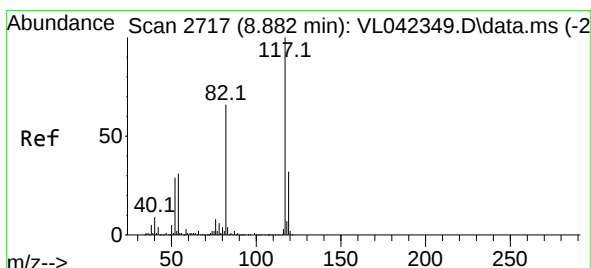
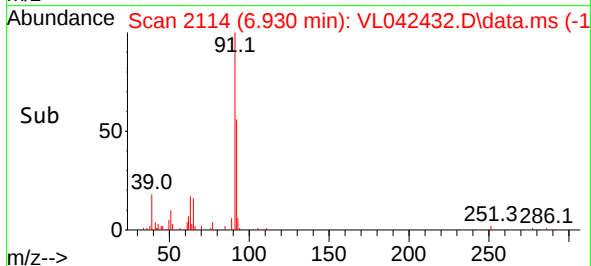
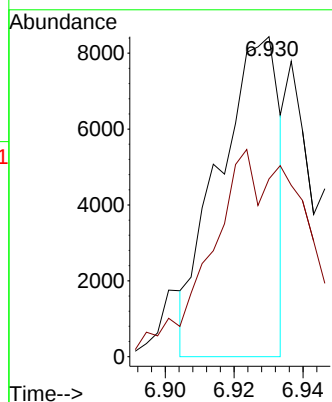
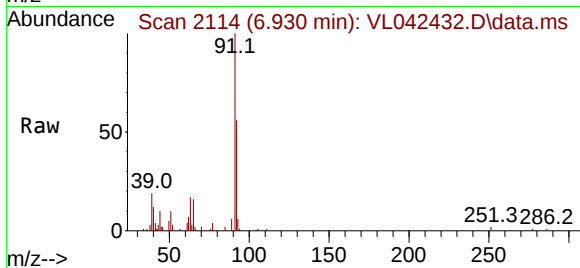
EBR-P02-SC-DUP01-20250423

Tgt Ion: 91 Resp: 10296

Ion Ratio Lower Upper

91 100

92 104.1 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.006 min

Lab File: VL042432.D

Acq: 28 Apr 2025 18:35

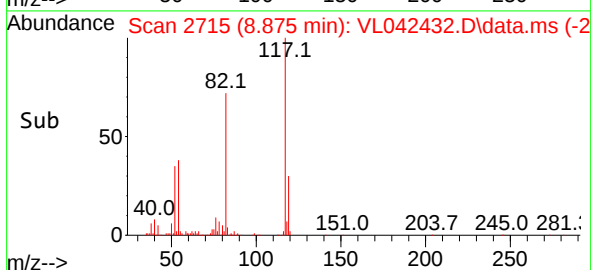
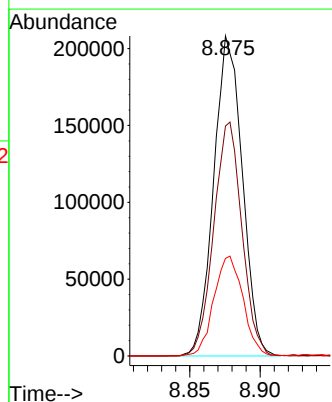
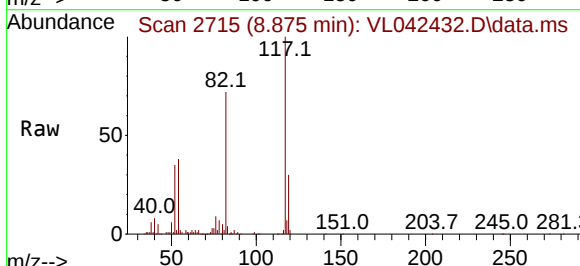
Tgt Ion: 117 Resp: 294438

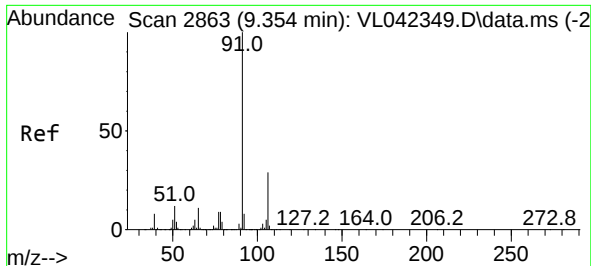
Ion Ratio Lower Upper

117 100

82 72.1 57.8 86.6

119 31.8 25.2 37.8

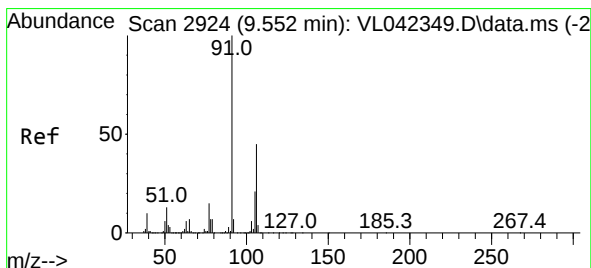
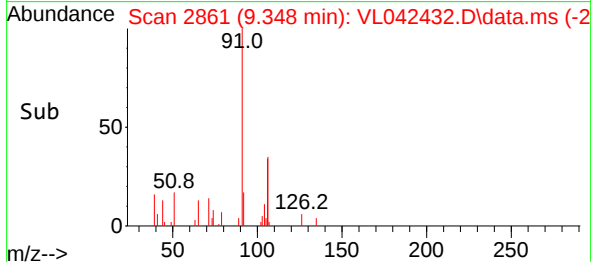
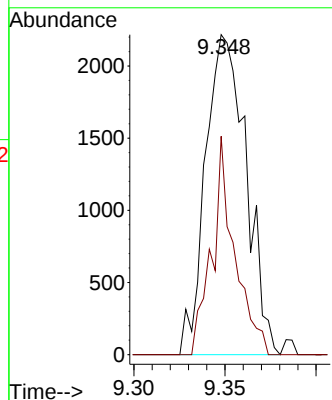
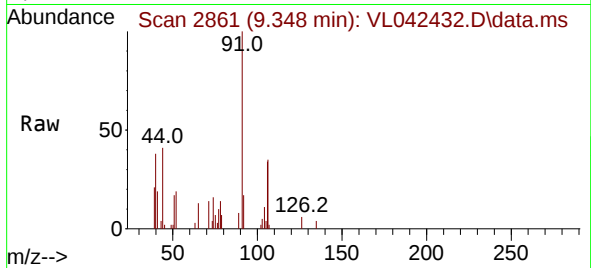




#58
Ethyl Benzene
Concen: 0.059 ppbv
RT: 9.348 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

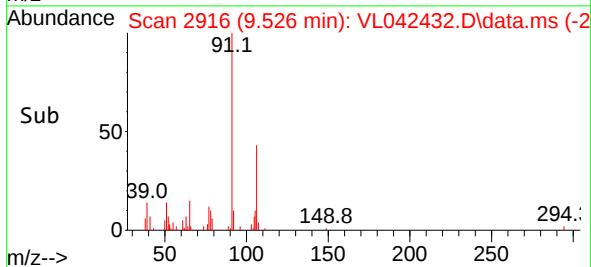
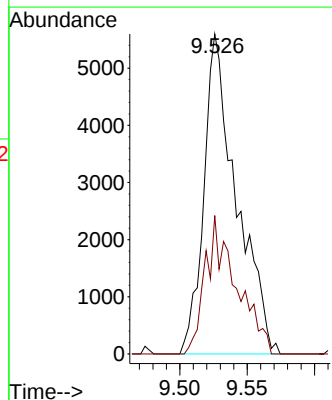
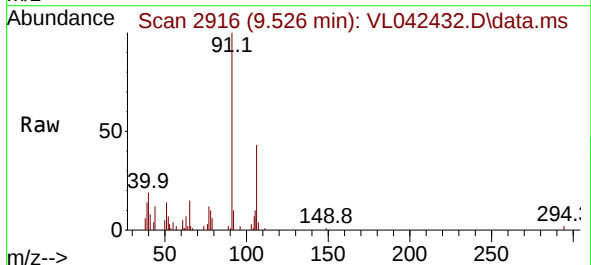
Instrument : MSVOA_L
ClientSampleId : EBR-P02-SC-DUP01-20250423

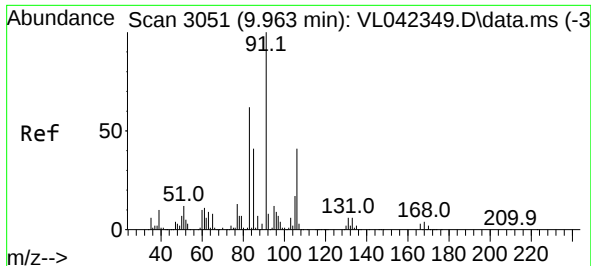
Tgt Ion: 91 Resp: 3441
Ion Ratio Lower Upper
91 100
106 58.2 23.0 34.4#



#59
m/p-Xylene
Concen: 0.201 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

Tgt Ion: 91 Resp: 9433
Ion Ratio Lower Upper
91 100
106 41.1 35.4 53.2

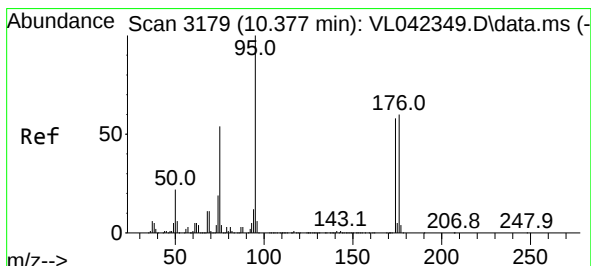
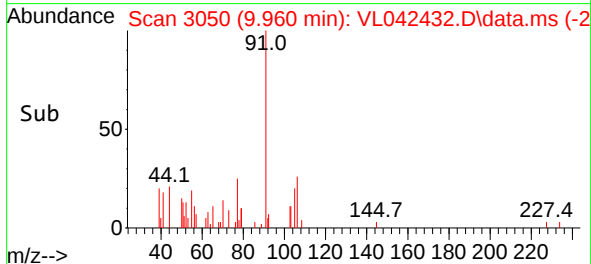
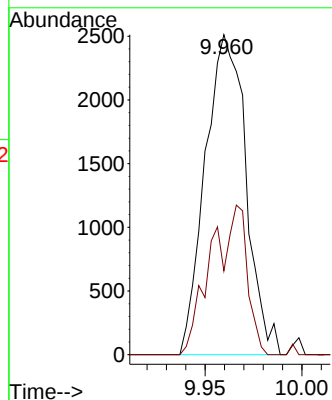
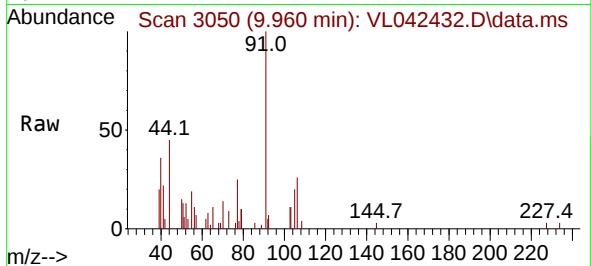




#60
o-Xylene
Concen: 0.078 ppbv
RT: 9.960 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

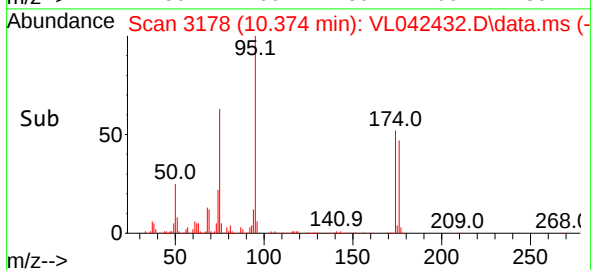
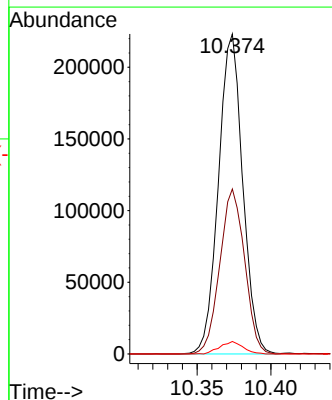
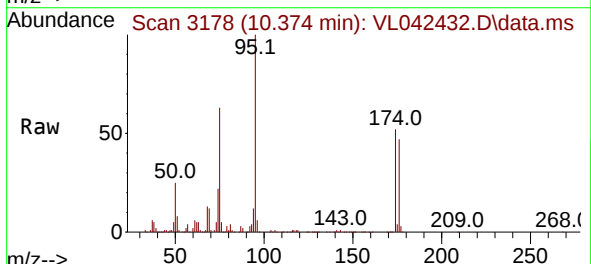
Instrument : MSVOA_L
ClientSampleId : EBR-P02-SC-DUP01-20250423

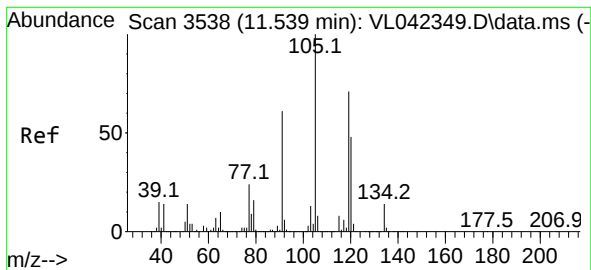
Tgt Ion: 91 Resp: 3674
Ion Ratio Lower Upper
91 100
106 42.1 21.1 63.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.554 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042432.D
Acq: 28 Apr 2025 18:35

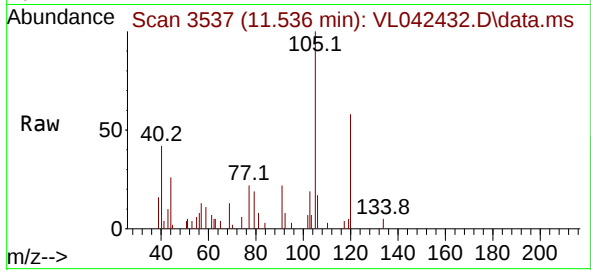
Tgt Ion: 95 Resp: 255363
Ion Ratio Lower Upper
95 100
174 52.6 48.5 72.7
175 3.7 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.039 ppbv
 RT: 11.536 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042432.D
 Acq: 28 Apr 2025 18:35

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-DUP01-20250423



Tgt Ion:	105	Resp:	2355
Ion	Ratio	Lower	Upper
105	100		
120	57.7	38.1	57.1#
91	21.7	48.8	73.2#
77	22.0	19.0	28.4

