

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042473.D
 Acq On : 05 May 2025 11:22
 Operator : SY/MD
 Sample : Q1927-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P03-SC-SS01-20250428DL

Quant Time: May 06 01:40:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

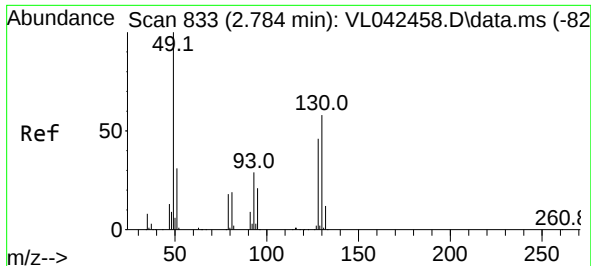
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	80347	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	224542	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	185866	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	169008	9.808	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	848	0.064	ppbv	89
3) Chlorodifluoromethane	1.460	51	3618	0.257	ppbv #	56
4) Chloromethane	1.528	50	713	0.128	ppbv #	47
7) Chloroethane	1.651	64	65	0.031	ppbv #	43
9) Propene	1.619	41	3560	0.774	ppbv	100
10) Heptane	4.994	43	1668	0.140	ppbv #	26
13) Ethanol	1.722	45	8323	8.920	ppbv #	37
15) Acetone	1.839	43	61972	4.225	ppbv	98
16) 1,3-Butadiene	1.619	39	2089	0.323	ppbv #	15
17) tert-Butyl alcohol	2.043	59	6740	0.522	ppbv #	92
19) Isopropyl Alcohol	1.722	45	8323	1.025	ppbv #	64
20) Methylene Chloride	2.065	84	1004	0.228	ppbv #	72
23) Vinyl Acetate	2.480	43	12637	0.903	ppbv #	51
25) Ethyl Acetate	2.826	43	10160	0.433	ppbv #	77
26) Hexane	2.832	57	13946	1.363	ppbv #	34
27) Carbon Disulfide	2.146	76	1450	0.121	ppbv #	1
34) 2-Butanone	2.564	43	4258	0.262	ppbv	93
36) Benzene	3.664	78	1466	0.069	ppbv #	89
39) 1,2-Dichloropropane	3.962	63	62410	7.868	ppbv #	21
58) Ethyl Benzene	9.539	91	1146	0.037	ppbv	96
59) m/p-Xylene	9.532	91	1615	0.062	ppbv #	33
60) o-Xylene	9.969	91	1437	0.055	ppbv	91

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

Quant Time: May 06 01:40:40 2025
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QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

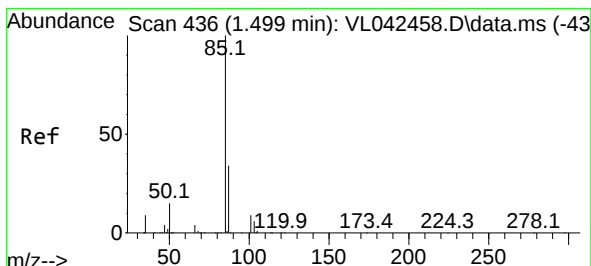
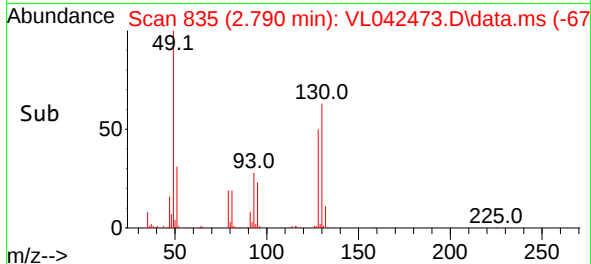
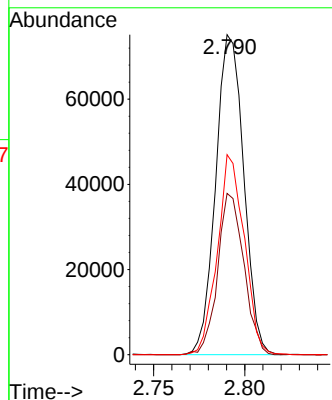
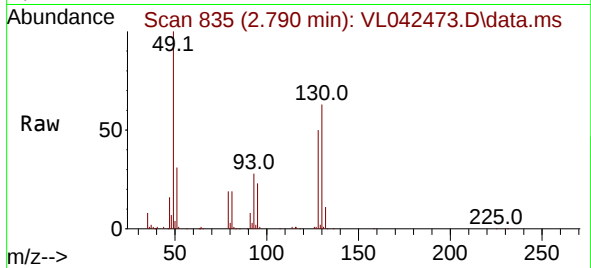




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

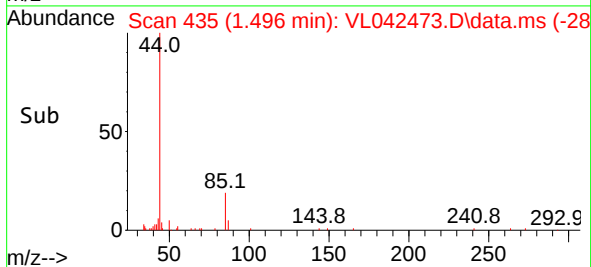
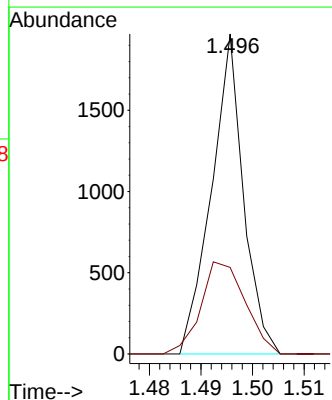
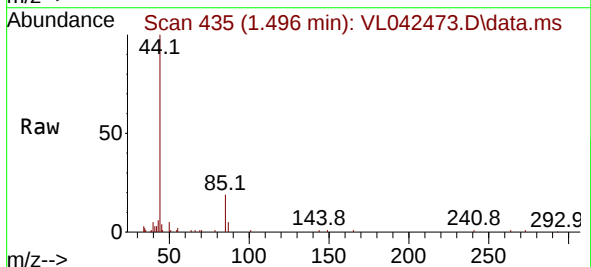
Instrument :
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ClientSampleId :
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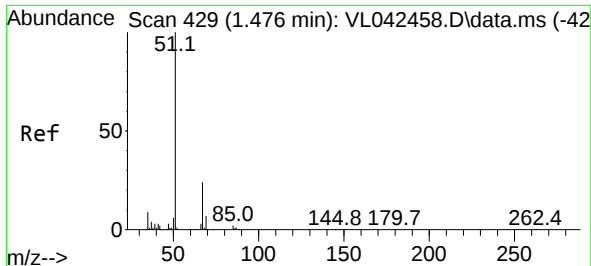
Tgt Ion: 49 Resp: 80347
Ion Ratio Lower Upper
49 100
128 47.1 23.3 69.9
130 60.1 29.5 88.6



#2
Dichlorodifluoromethane
Concen: 0.064 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 85 Resp: 848
Ion Ratio Lower Upper
85 100
87 27.1 26.9 40.3

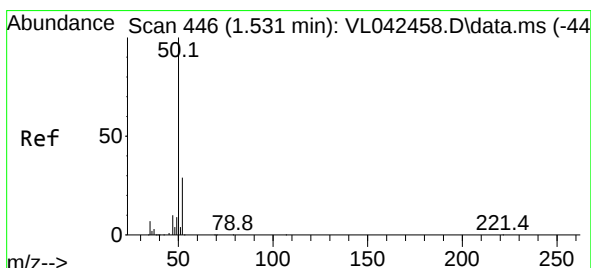
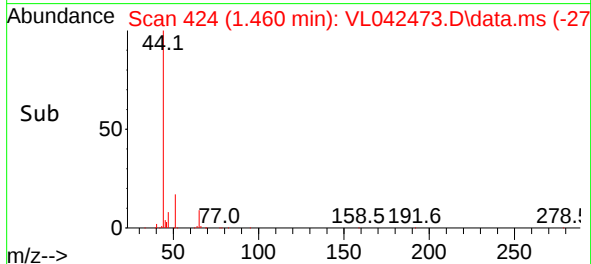
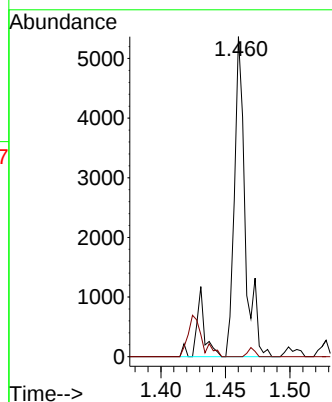
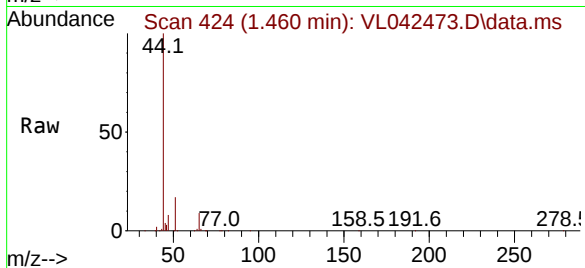




#3
Chlorodifluoromethane
Concen: 0.257 ppbv
RT: 1.460 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

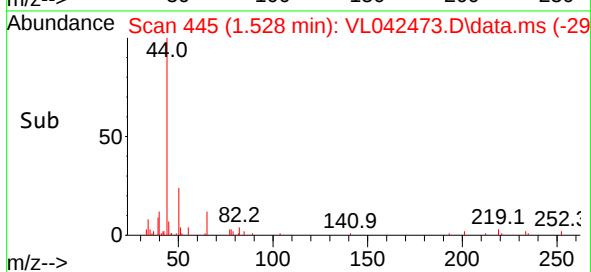
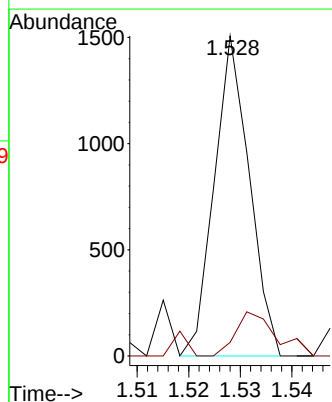
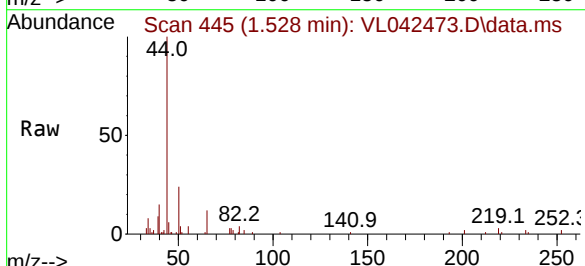
Instrument :
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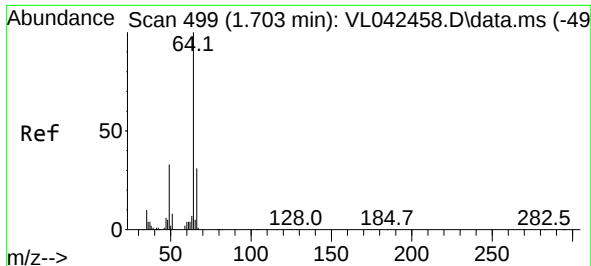
Tgt Ion: 51 Resp: 3618
Ion Ratio Lower Upper
51 100
67 1.6 18.4 27.6#



#4
Chloromethane
Concen: 0.128 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 50 Resp: 713
Ion Ratio Lower Upper
50 100
52 0.7 23.5 35.3#

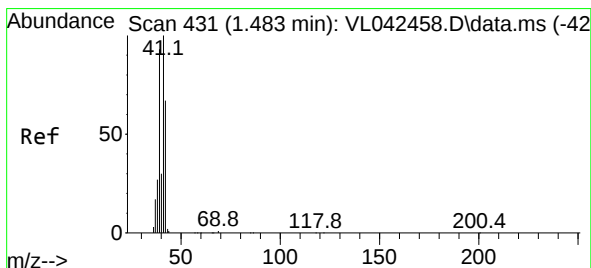
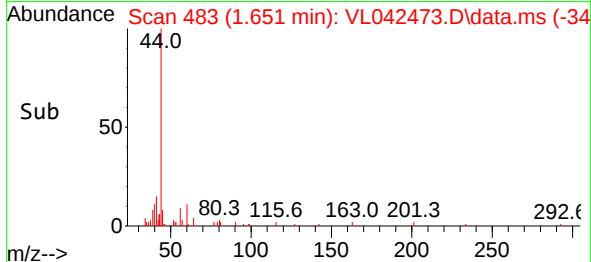
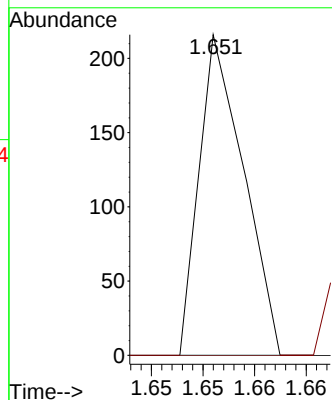
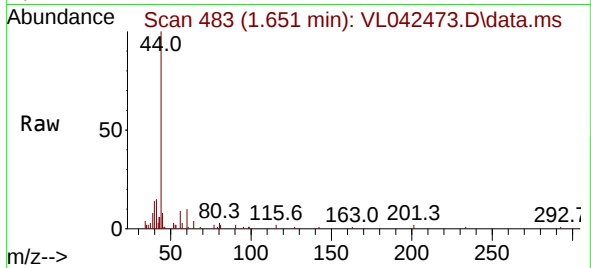




#7
Chloroethane
Concen: 0.031 ppbv
RT: 1.651 min Scan# 41
Delta R.T. -0.052 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

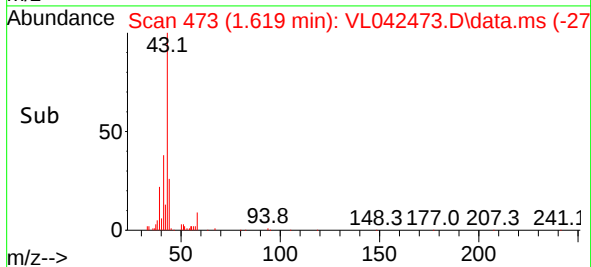
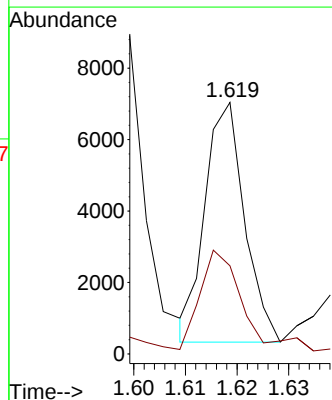
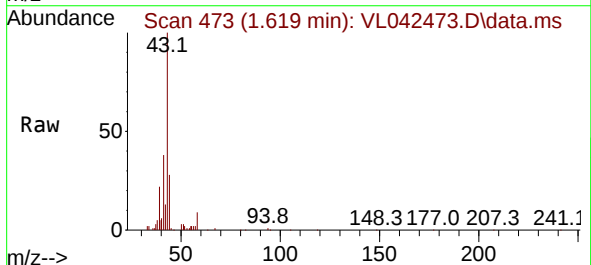
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

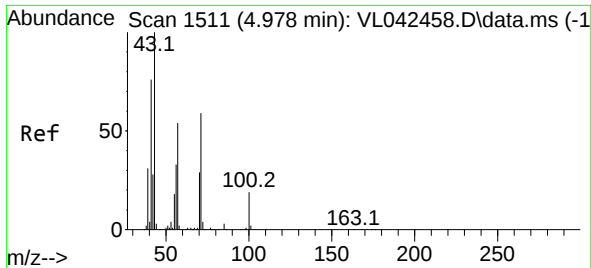
Tgt Ion: 64 Resp: 65
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#



#9
Propene
Concen: 0.774 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.136 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 41 Resp: 3560
Ion Ratio Lower Upper
41 100
42 68.2 54.3 81.5





#10

Heptane

Concen: 0.140 ppbv

RT: 4.994 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL042473.D

Acq: 05 May 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

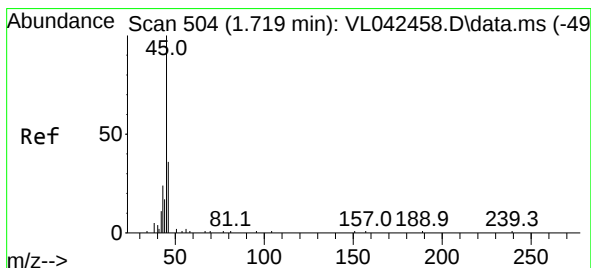
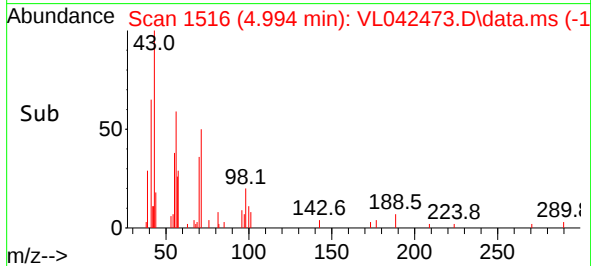
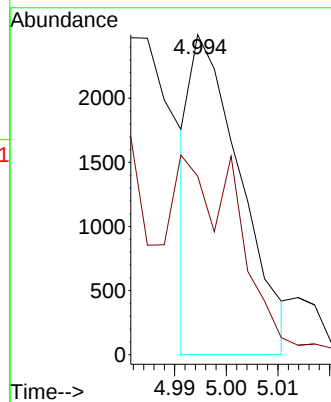
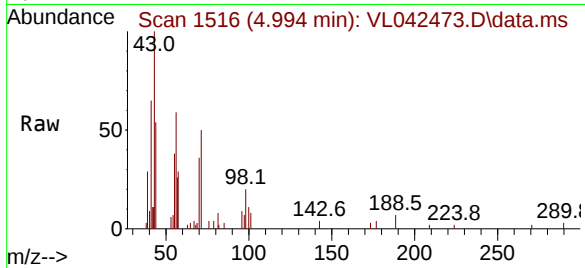
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 43 Resp: 1668

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.8#



#13

Ethanol

Concen: 8.920 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042473.D

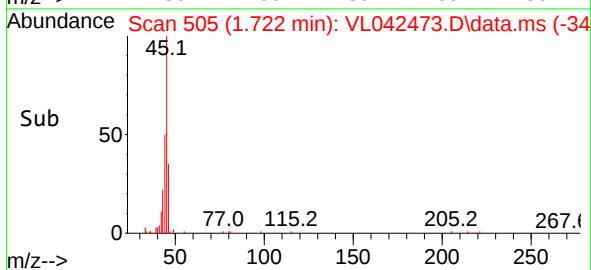
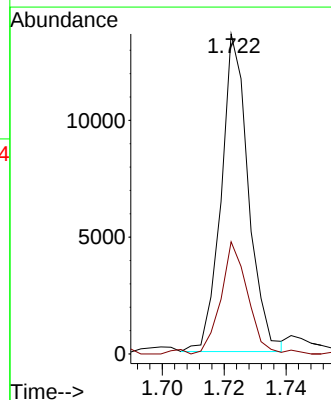
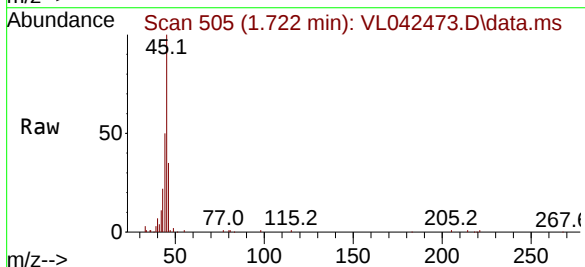
Acq: 05 May 2025 11:22

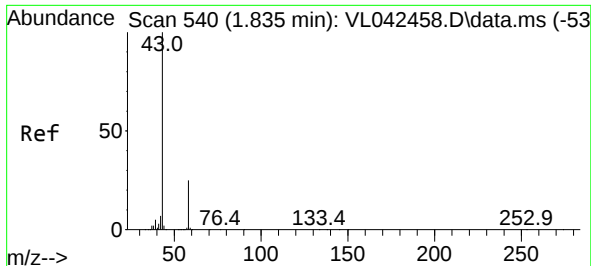
Tgt Ion: 45 Resp: 8323

Ion Ratio Lower Upper

45 100

46 0.0 15.3 61.1#

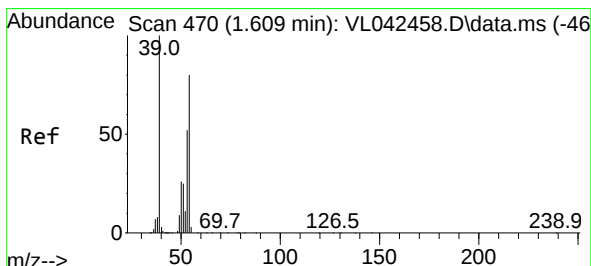
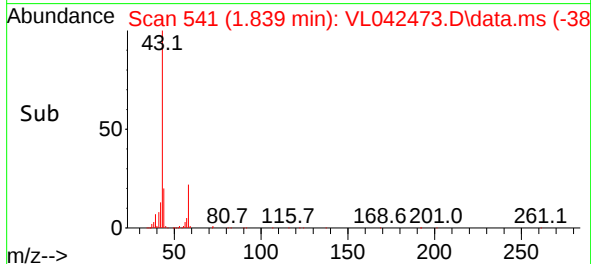
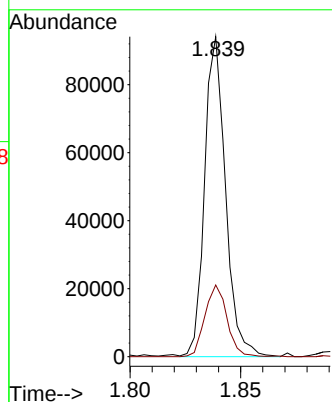
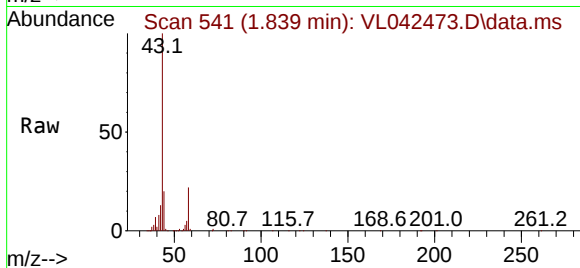




#15
Acetone
Concen: 4.225 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

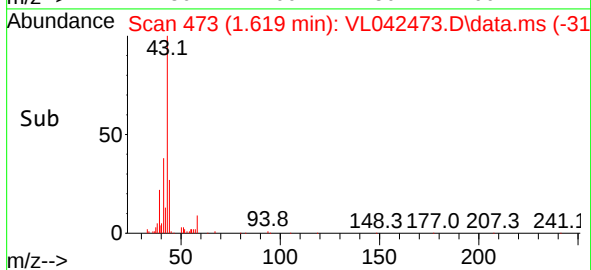
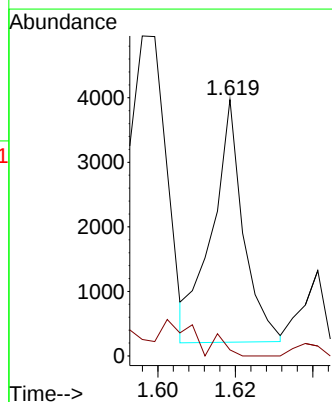
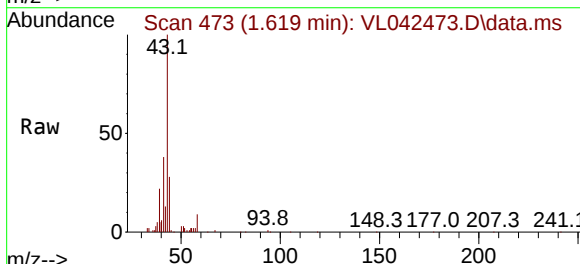
Instrument :
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ClientSampleId :
EBR-P03-SC-SS01-20250428DL

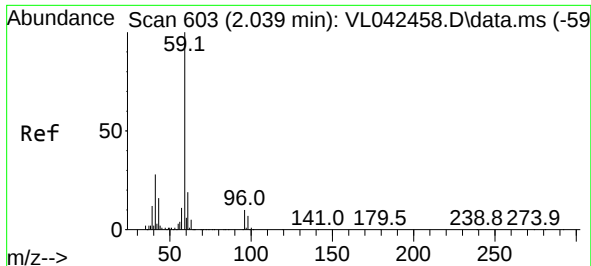
Tgt Ion: 43 Resp: 61972
Ion Ratio Lower Upper
43 100
58 23.7 19.8 29.8



#16
1,3-Butadiene
Concen: 0.323 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 39 Resp: 2089
Ion Ratio Lower Upper
39 100
54 0.0 55.2 82.8#

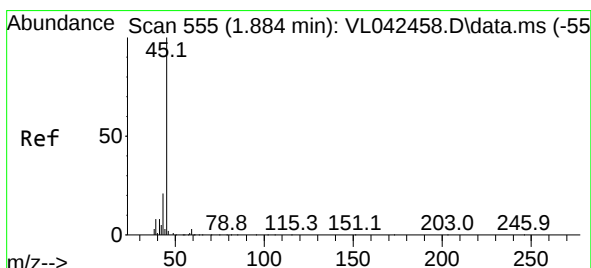
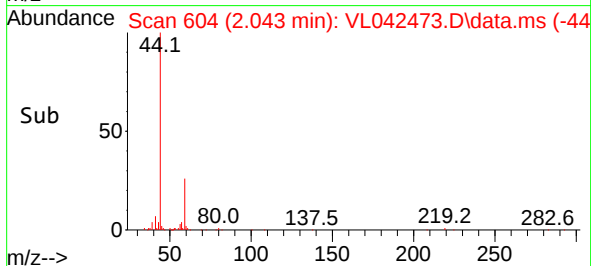
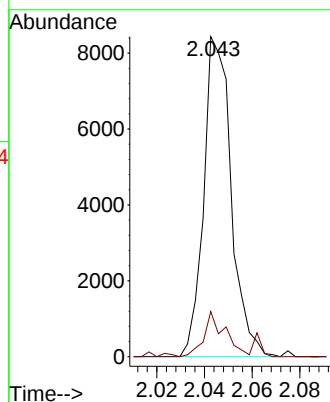
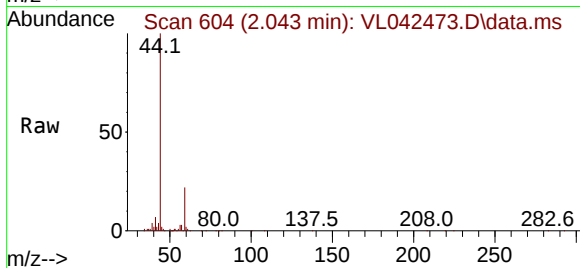




#17
tert-Butyl alcohol
Concen: 0.522 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

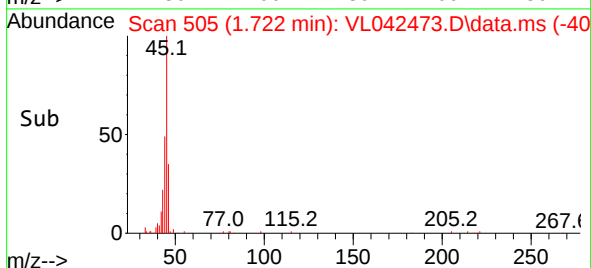
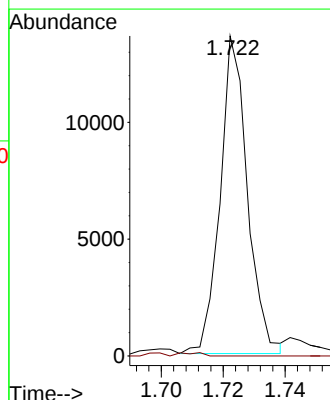
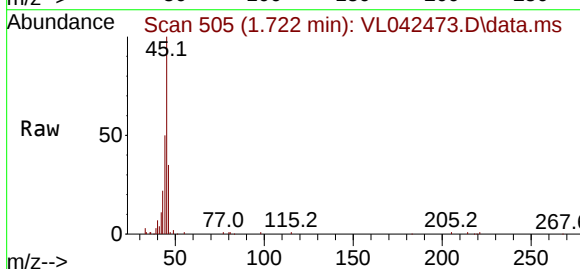
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EBR-P03-SC-SS01-20250428DL

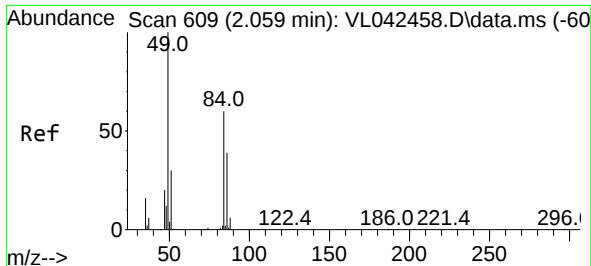
Tgt Ion: 59 Resp: 6740
Ion Ratio Lower Upper
59 100
57 13.4 8.3 12.5#



#19
Isopropyl Alcohol
Concen: 1.025 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.162 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 45 Resp: 8323
Ion Ratio Lower Upper
45 100
58 14.6 1.6 2.4#





#20

Methylene Chloride

Concen: 0.228 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.007 min

Lab File: VL042473.D

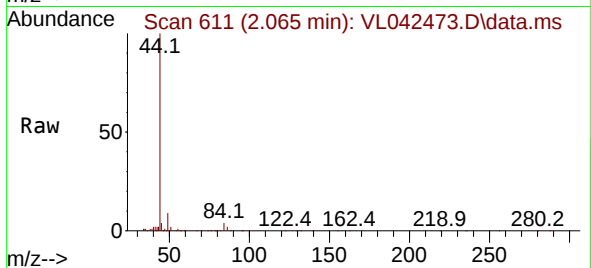
Acq: 05 May 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

EBR-P03-SC-SS01-20250428DL



Tgt Ion: 84 Resp: 1004

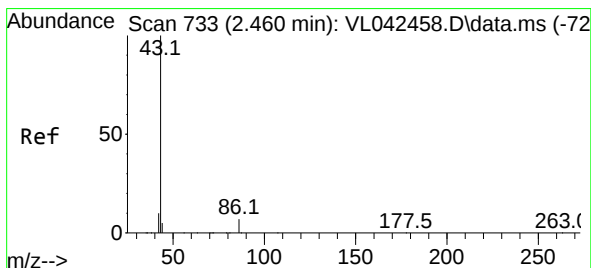
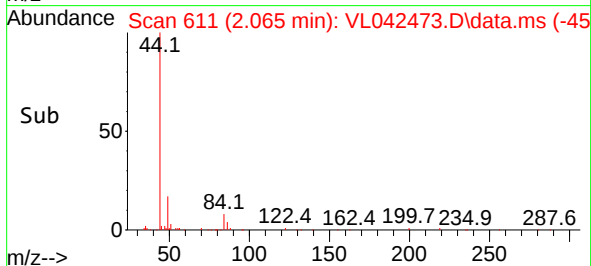
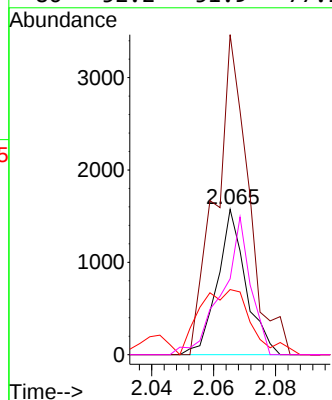
Ion Ratio Lower Upper

84 100

49 220.1 133.9 200.9#

51 44.8 41.0 61.6

86 52.2 51.9 77.9



#23

Vinyl Acetate

Concen: 0.903 ppbv

RT: 2.480 min Scan# 739

Delta R.T. 0.020 min

Lab File: VL042473.D

Acq: 05 May 2025 11:22

Tgt Ion: 43 Resp: 12637

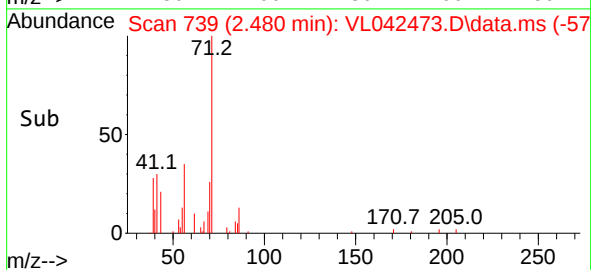
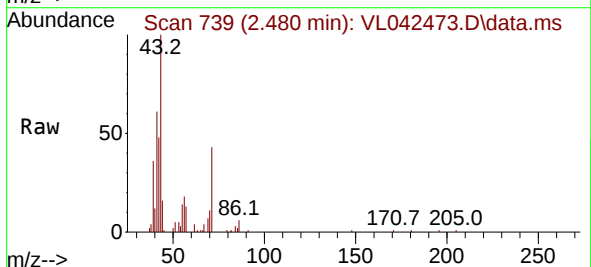
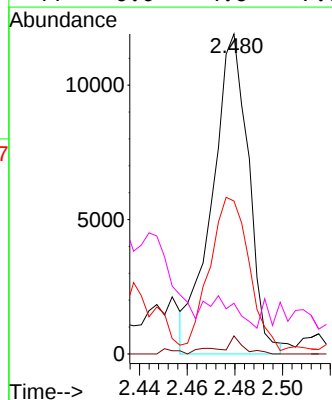
Ion Ratio Lower Upper

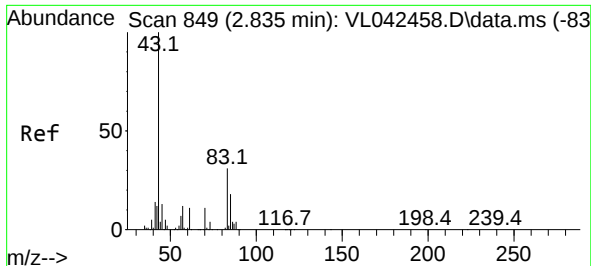
43 100

86 5.9 5.5 8.3

42 47.1 8.3 12.5#

44 0.0 4.6 7.0#

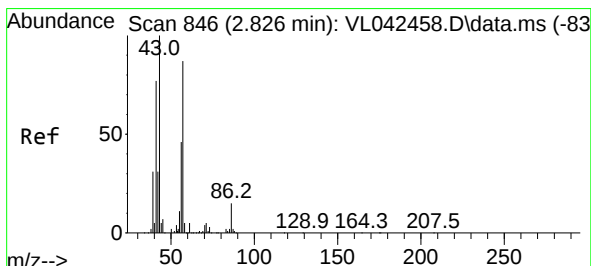
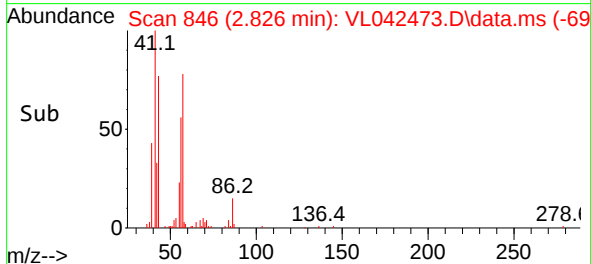
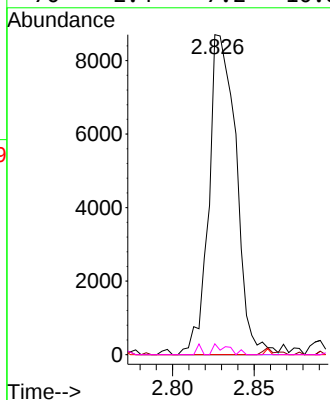
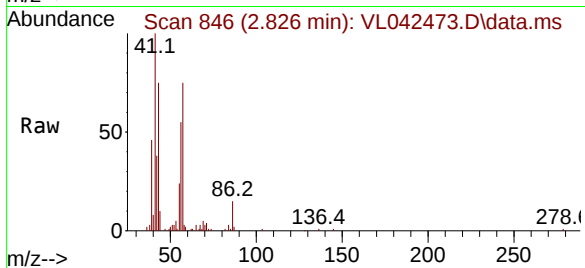




#25
Ethyl Acetate
Concen: 0.433 ppbv
RT: 2.826 min Scan# 841
Delta R.T. -0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

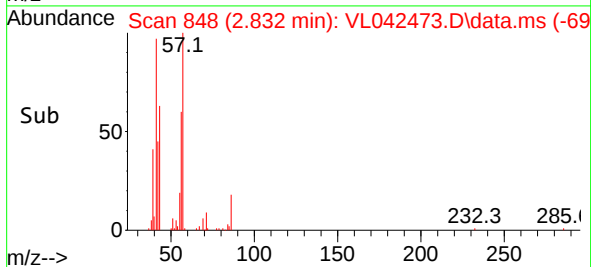
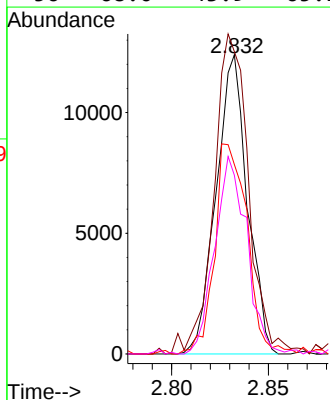
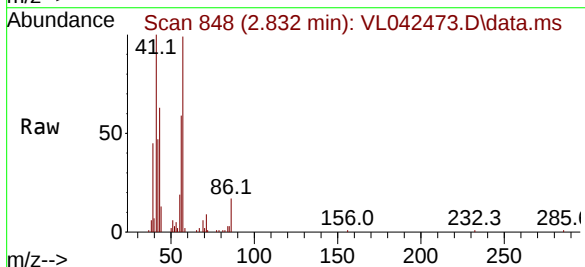
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

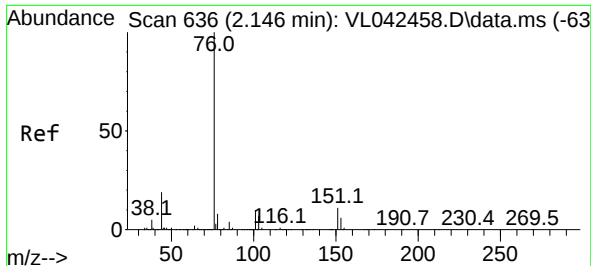
Tgt Ion:	43	Resp:	10160
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	7.2	10.8#
70	2.4	7.2	10.8#



#26
Hexane
Concen: 1.363 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion:	57	Resp:	13946
Ion	Ratio	Lower	Upper
57	100		
41	118.3	77.8	116.8#
43	73.6	187.0	280.6#
56	68.0	43.9	65.9#

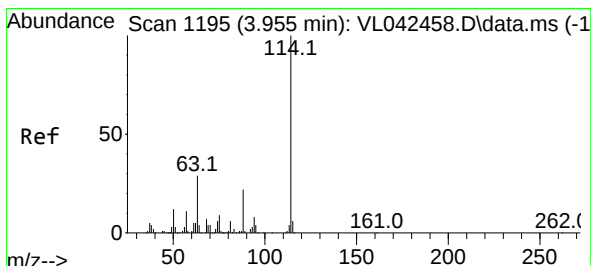
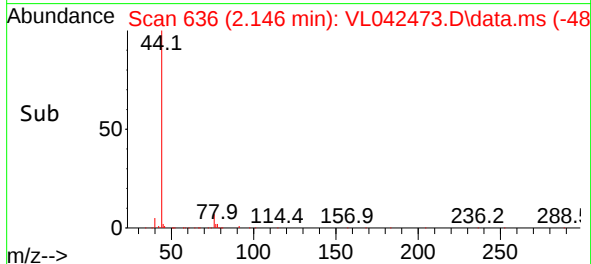
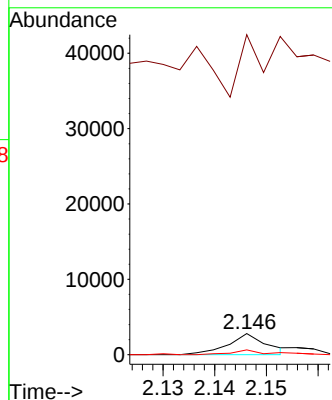
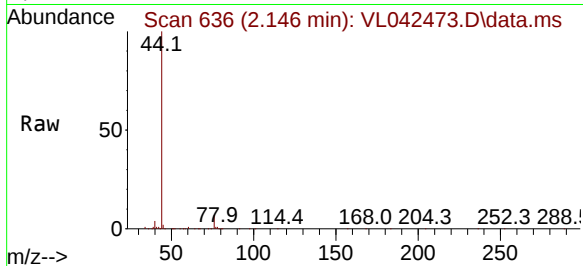




#27
Carbon Disulfide
Concen: 0.121 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

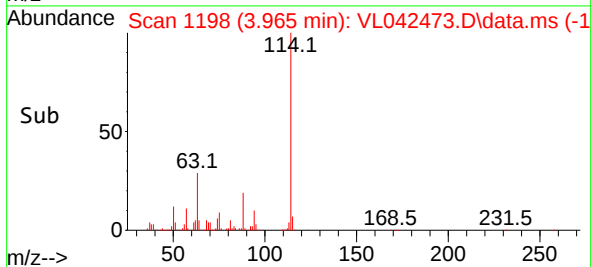
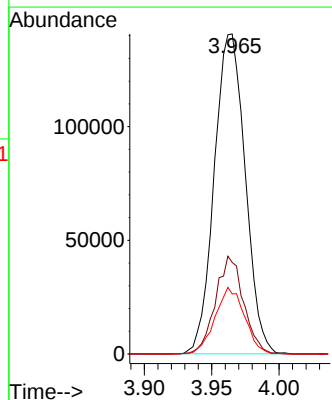
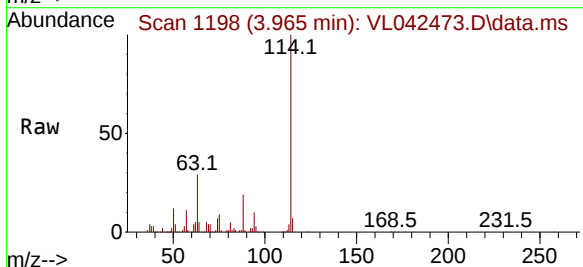
Instrument :
MSVOA_1
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

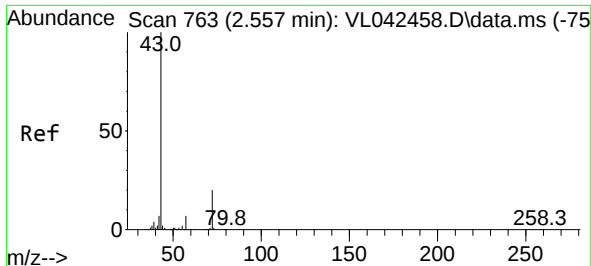
Tgt Ion: 76 Resp: 1450
Ion Ratio Lower Upper
76 100
44 11662.3 21.0 31.6#
78 26.6 8.6 13.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 114 Resp: 224542
Ion Ratio Lower Upper
114 100
63 27.8 23.1 34.7
88 19.8 16.1 24.1

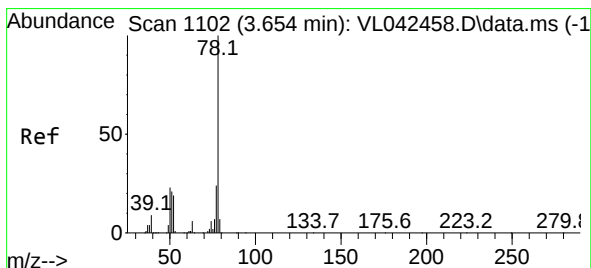
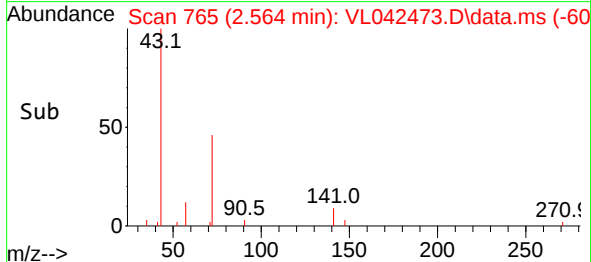
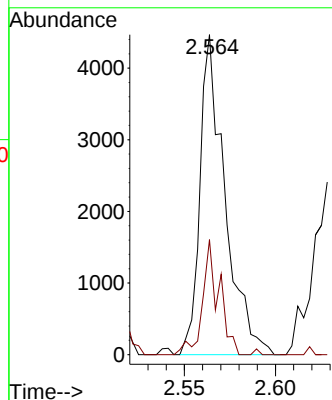
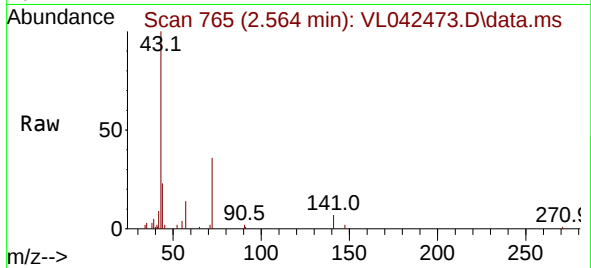




#34
2-Butanone
Concen: 0.262 ppbv
RT: 2.564 min Scan# 710
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

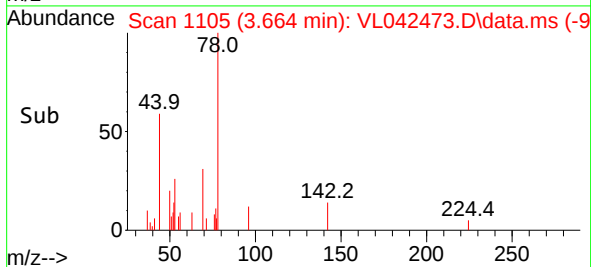
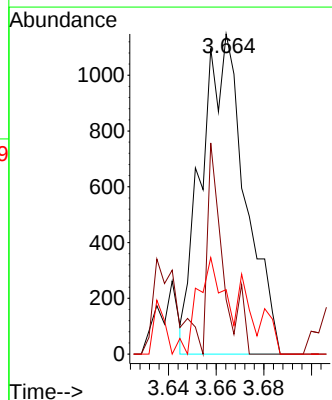
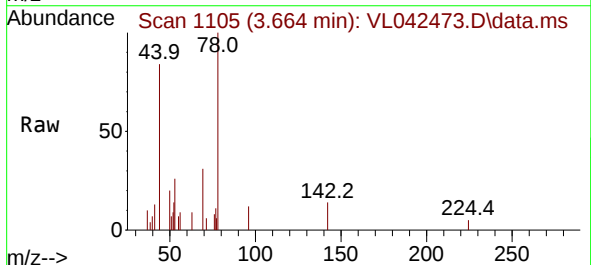
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

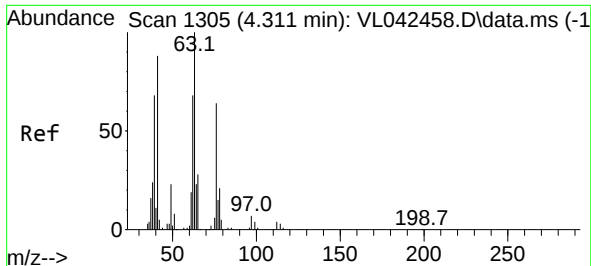
Tgt Ion: 43 Resp: 4258
Ion Ratio Lower Upper
43 100
72 24.4 16.7 25.1



#36
Benzene
Concen: 0.069 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 78 Resp: 1466
Ion Ratio Lower Upper
78 100
77 17.1 18.9 28.3#
50 26.7 18.4 27.6





#39

1,2-Dichloropropane

Concen: 7.868 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.349 min

Lab File: VL042473.D

Acq: 05 May 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

EBR-P03-SC-SS01-20250428DL

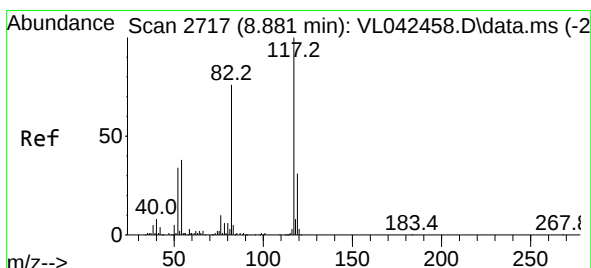
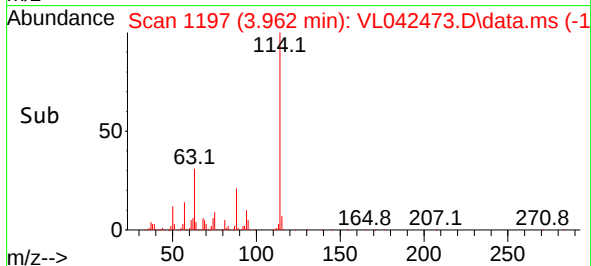
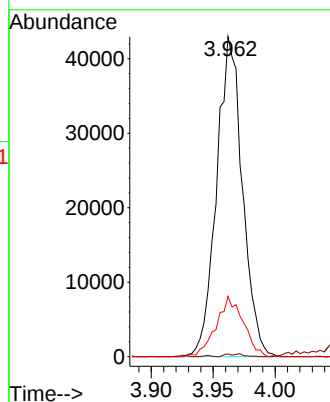
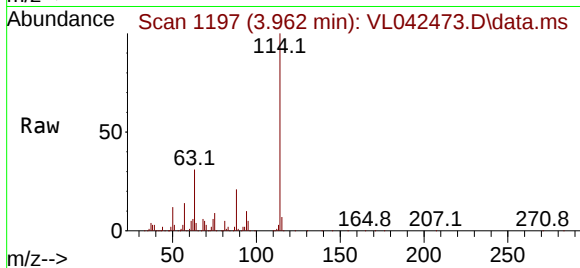
Tgt Ion: 63 Resp: 62410

Ion Ratio Lower Upper

63 100

41 0.6 69.8 104.6#

62 18.9 54.3 81.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.003 min

Lab File: VL042473.D

Acq: 05 May 2025 11:22

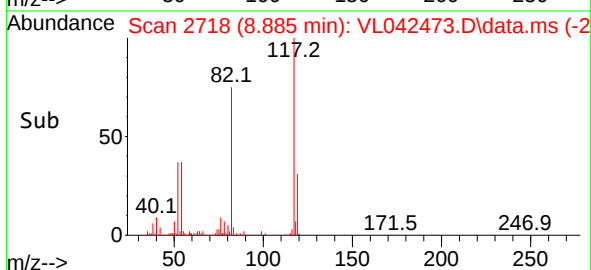
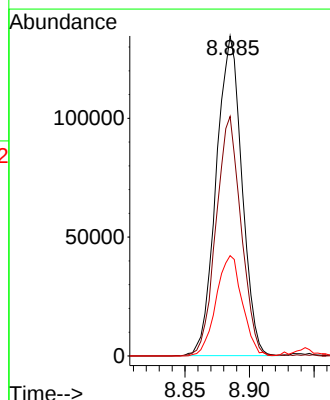
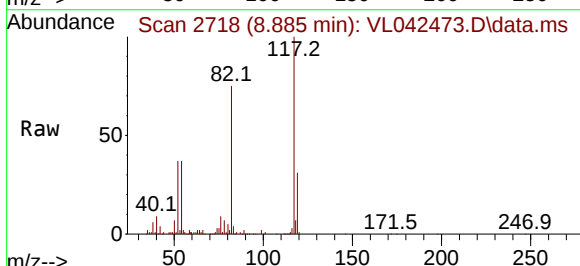
Tgt Ion: 117 Resp: 185866

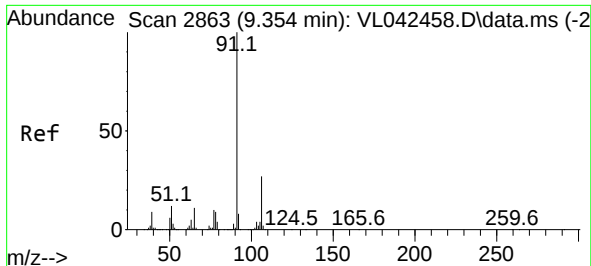
Ion Ratio Lower Upper

117 100

82 73.4 63.5 95.3

119 31.9 25.8 38.8





#58

Ethyl Benzene

Concen: 0.037 ppbv

RT: 9.539 min Scan# 2918

Delta R.T. 0.185 min

Lab File: VL042473.D

Acq: 05 May 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

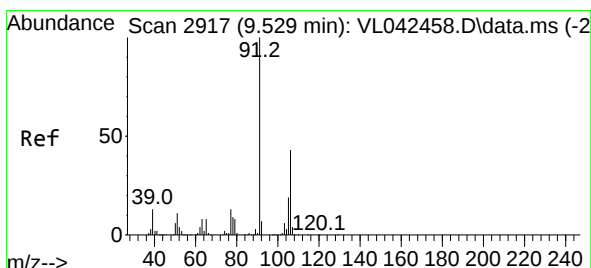
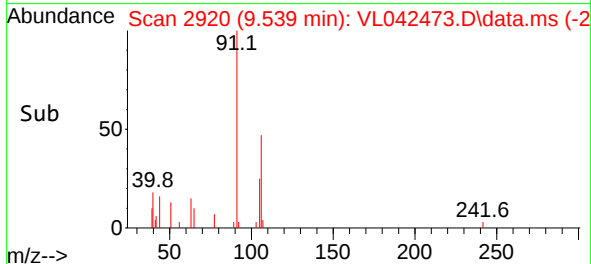
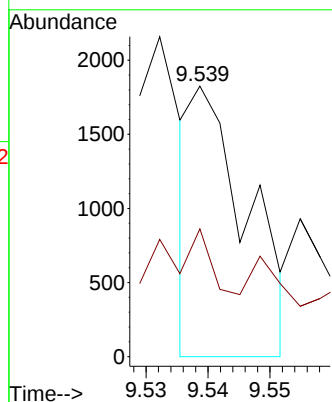
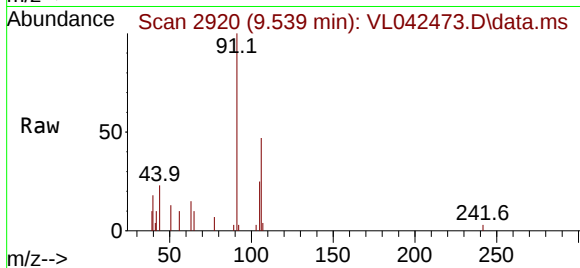
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 91 Resp: 1146

Ion Ratio Lower Upper

91 100

106 29.3 21.9 32.9



#59

m/p-Xylene

Concen: 0.062 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. 0.003 min

Lab File: VL042473.D

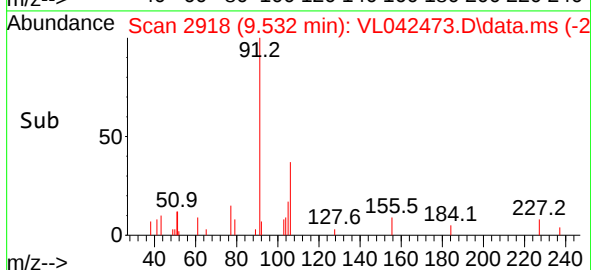
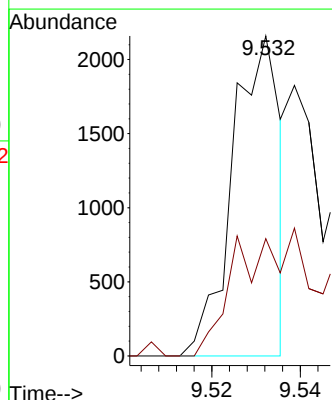
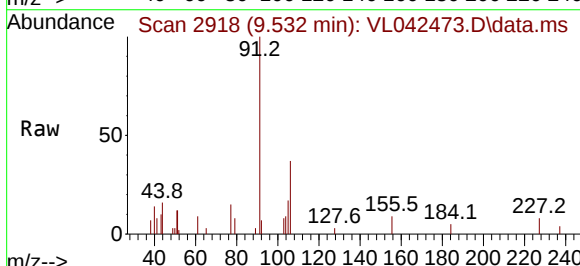
Acq: 05 May 2025 11:22

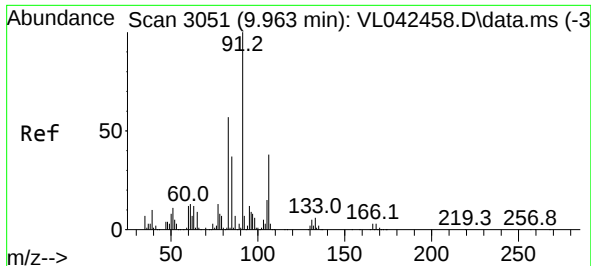
Tgt Ion: 91 Resp: 1615

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#

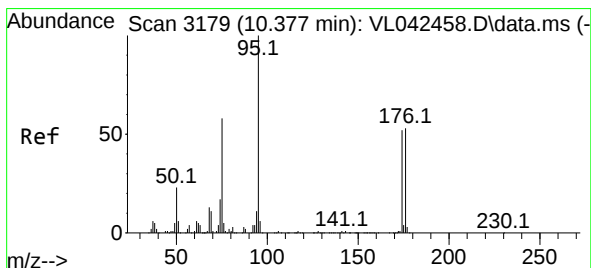
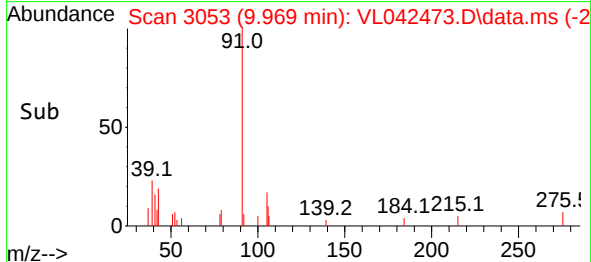
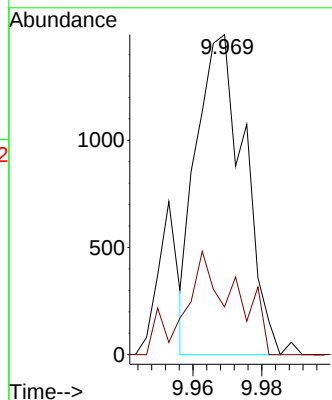
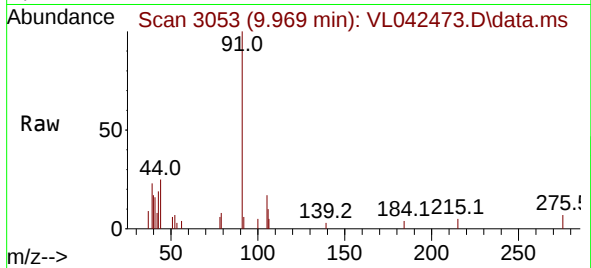




#60
o-Xylene
Concen: 0.055 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Instrument :
MSVOA_1
ClientSampleId :
EBR-P03-SC-SS01-20250428DL

Tgt Ion: 91 Resp: 1437
Ion Ratio Lower Upper
91 100
106 34.3 20.1 60.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.808 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042473.D
Acq: 05 May 2025 11:22

Tgt Ion: 95 Resp: 169008
Ion Ratio Lower Upper
95 100
174 53.8 42.7 64.1
175 4.4 3.6 5.4

