

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042448.D
 Acq On : 29 Apr 2025 15:58
 Operator : SY/MD
 Sample : Q1880-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P16-SC-SS01-20250422

Quant Time: Apr 30 01:22:18 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	2.794	49	114087	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	307114	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.892	117	268915	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	239688	10.847	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.500%

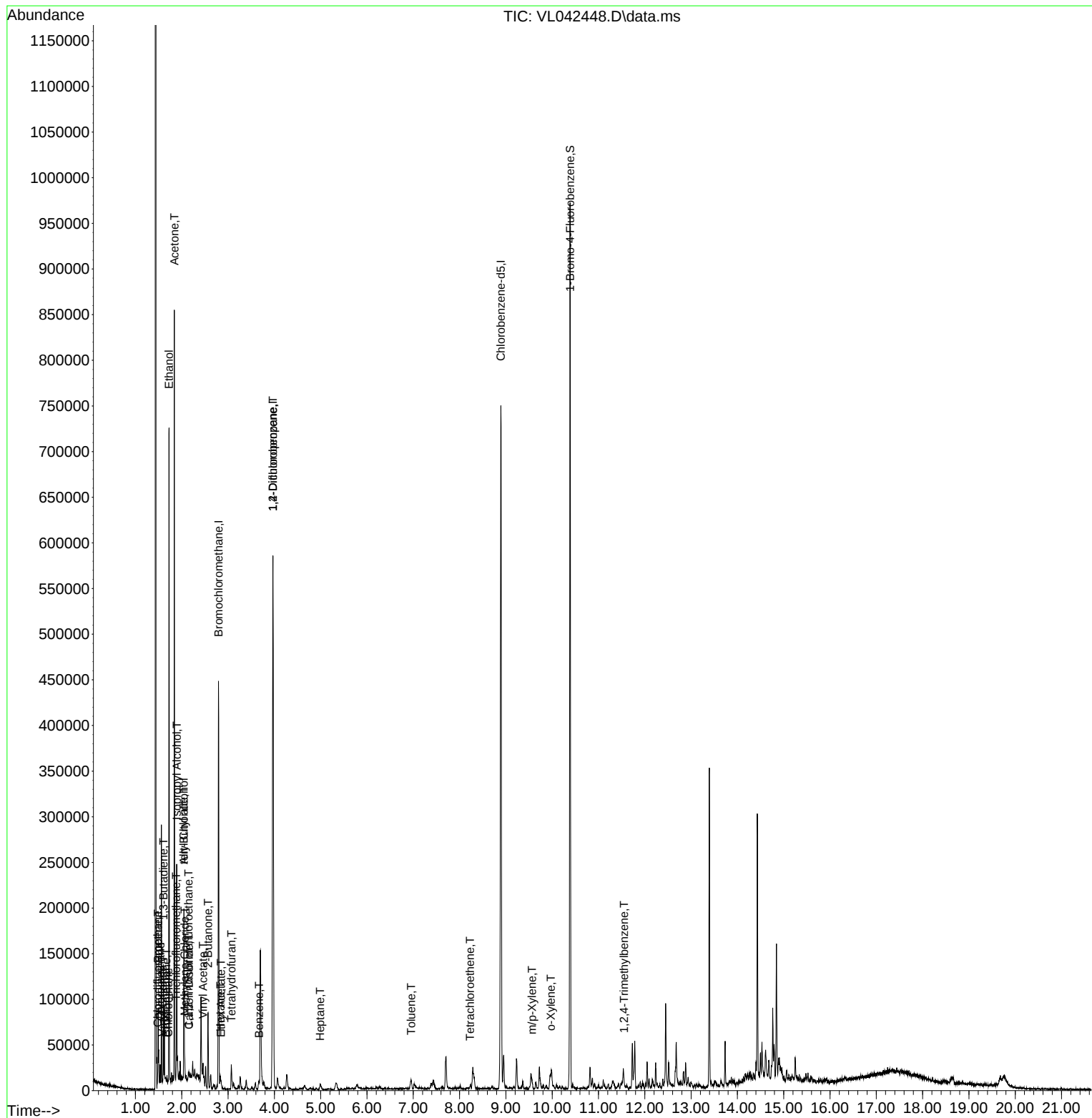
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.480	51	6565	0.342	ppbv #	89
4) Chloromethane	1.535	50	3074	0.385	ppbv #	84
5) Vinyl Chloride	1.583	62	718	0.083	ppbv	98
6) Bromomethane	1.667	94	143	0.038	ppbv #	45
7) Chloroethane	1.710	64	186	0.059	ppbv #	44
9) Propene	1.489	41	11421	1.307	ppbv	84
10) Heptane	4.988	43	1453	0.059	ppbv #	27
11) Trichlorofluoromethane	1.881	101	4348	0.227	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.143	101	1134	0.072	ppbv	97
13) Ethanol	1.722	45	257788	185.543	ppbv	76
15) Acetone	1.839	43	352540	18.876	ppbv	99
16) 1,3-Butadiene	1.603	39	13117	1.468	ppbv #	24
17) tert-Butyl alcohol	2.046	59	68971	2.980	ppbv	98
19) Isopropyl Alcohol	1.891	45	94932	9.150	ppbv #	7
20) Methylene Chloride	2.066	84	2278	0.311	ppbv #	50
21) Allyl Chloride	2.046	41	21187	1.643	ppbv #	63
23) Vinyl Acetate	2.460	43	15595	2.063	ppbv #	78
25) Ethyl Acetate	2.849	43	5734	0.125	ppbv #	93
26) Hexane	2.833	57	2509	0.135	ppbv #	88
27) Carbon Disulfide	2.156	76	1970	0.099	ppbv #	1
34) 2-Butanone	2.567	43	50884	2.095	ppbv	99
36) Benzene	3.671	78	4385	0.132	ppbv	96
39) 1,2-Dichloropropane	3.969	63	91029	7.374	ppbv #	22
41) Tetrahydrofuran	3.072	42	5749	0.406	ppbv #	67
52) Tetrachloroethene	8.228	164	438	0.034	ppbv #	48
53) Toluene	6.953	91	2284	0.057	ppbv #	1
59) m/p-Xylene	9.562	91	2975	0.069	ppbv #	32
60) o-Xylene	9.973	91	4213	0.097	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	1942	0.036	ppbv #	61

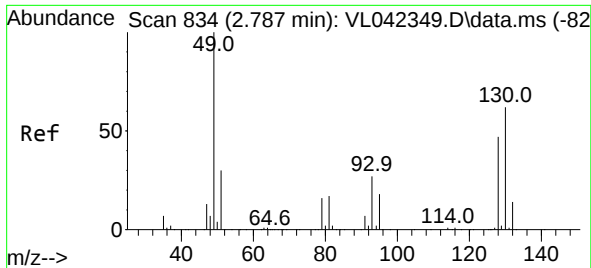
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EBR-P16-SC-SS01-20250422

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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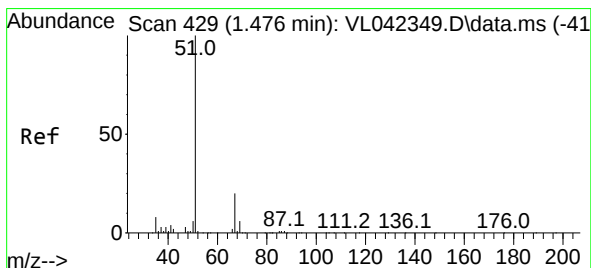
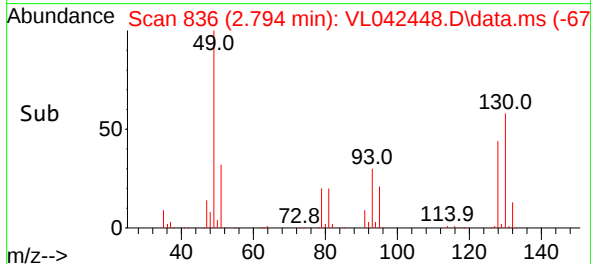
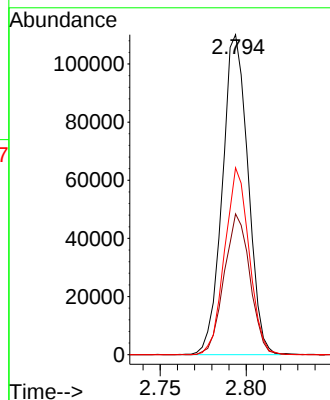
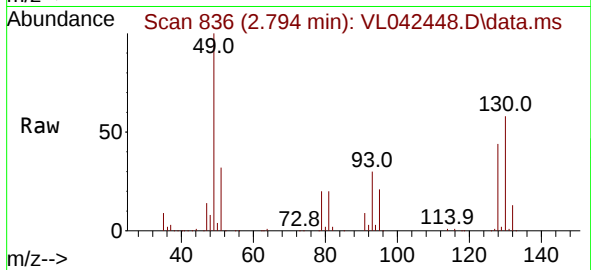




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

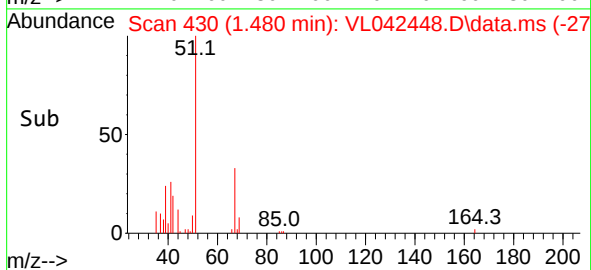
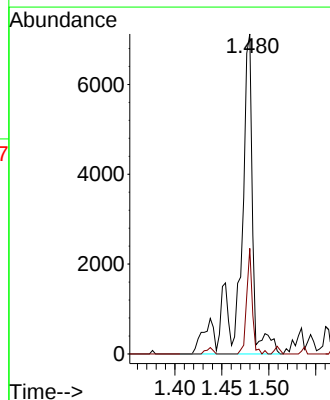
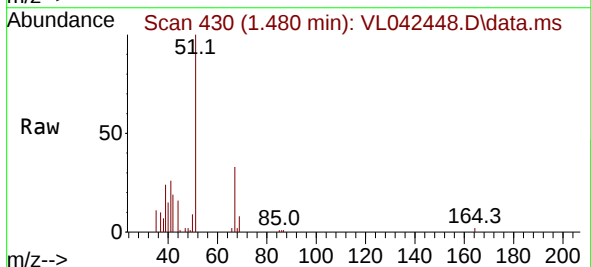
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-SS01-20250422

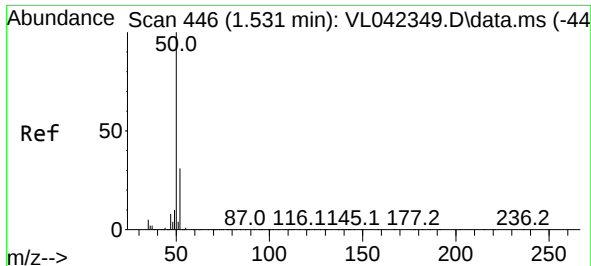
Tgt Ion: 49 Resp: 114087
Ion Ratio Lower Upper
49 100
128 44.3 22.8 68.4
130 55.7 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.342 ppbv
RT: 1.480 min Scan# 430
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 51 Resp: 6565
Ion Ratio Lower Upper
51 100
67 15.0 16.2 24.4#

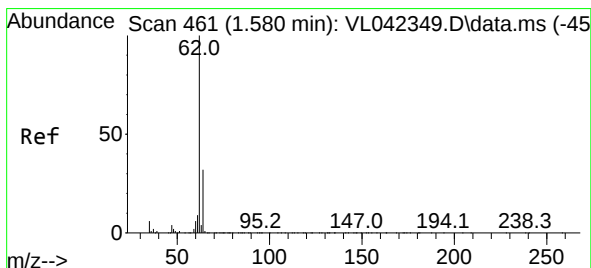
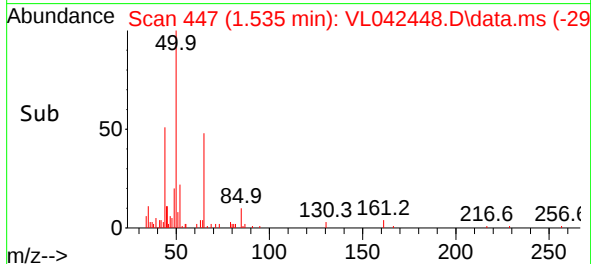
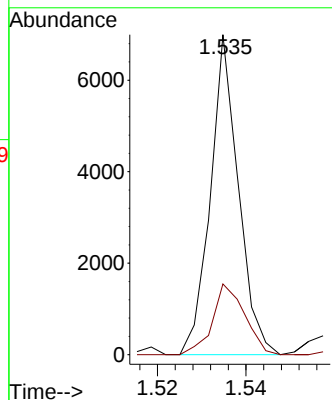
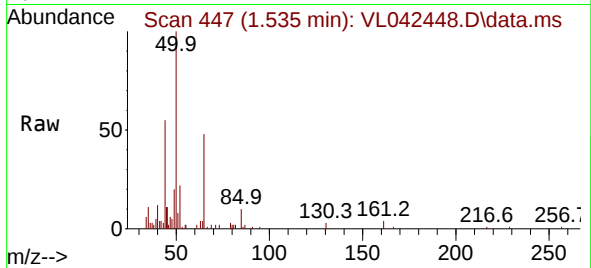




#4
Chloromethane
Concen: 0.385 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

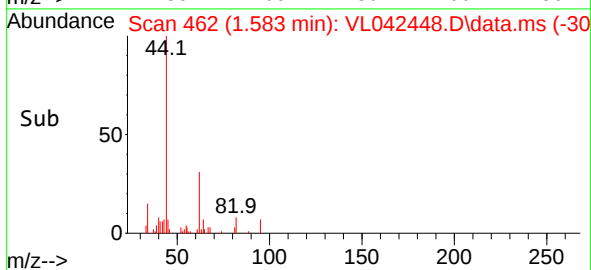
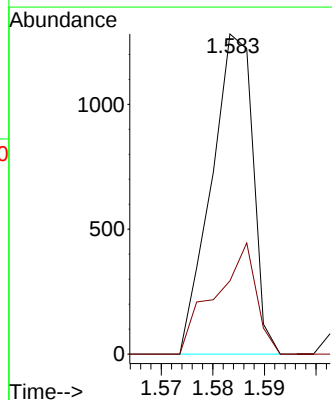
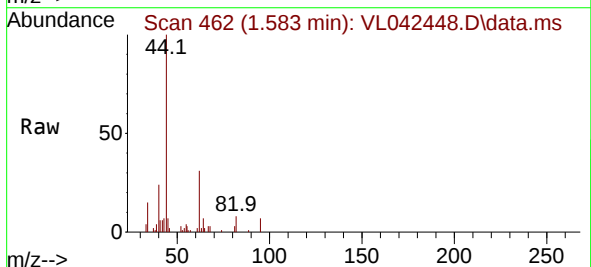
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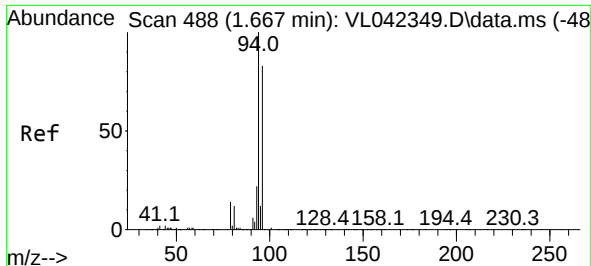
Tgt Ion: 50 Resp: 3074
Ion Ratio Lower Upper
50 100
52 22.1 24.7 37.1#



#5
Vinyl Chloride
Concen: 0.083 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 62 Resp: 718
Ion Ratio Lower Upper
62 100
64 30.7 25.4 38.0

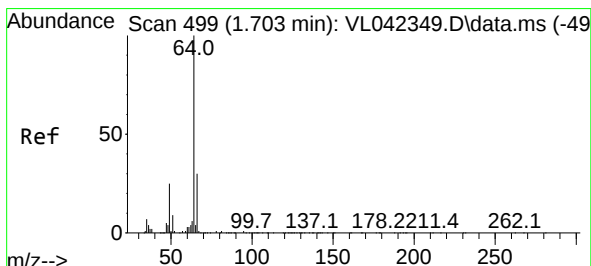
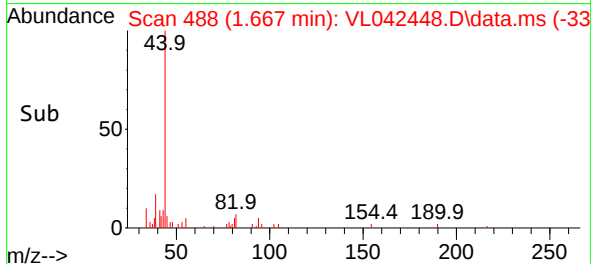
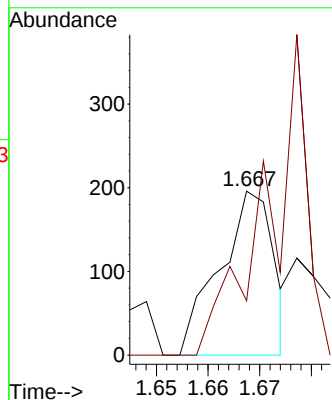
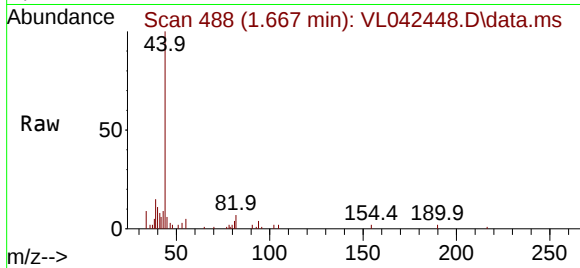




#6
Bromomethane
Concen: 0.038 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

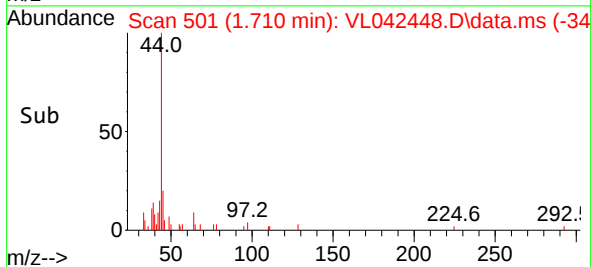
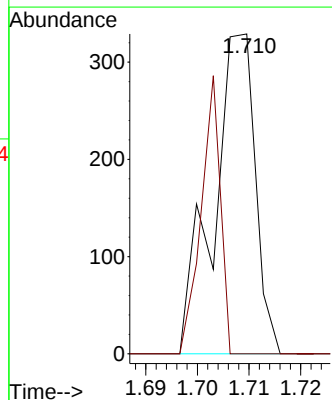
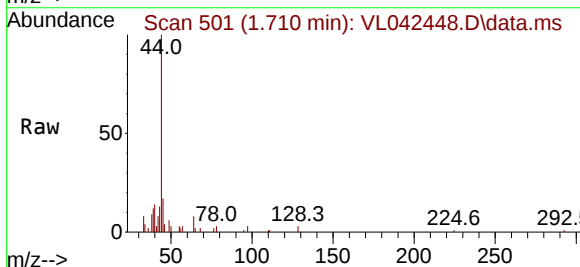
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-SS01-20250422

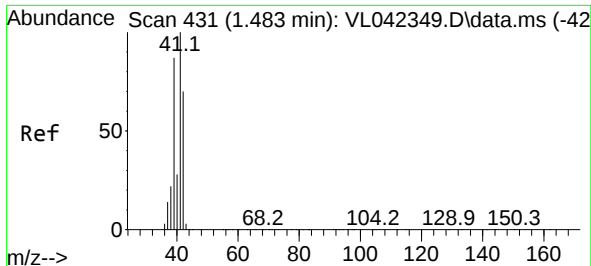
Tgt Ion: 94 Resp: 143
Ion Ratio Lower Upper
94 100
96 33.2 66.2 99.2#



#7
Chloroethane
Concen: 0.059 ppbv
RT: 1.710 min Scan# 501
Delta R.T. 0.007 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 64 Resp: 186
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#





#9

Propene

Concen: 1.307 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042448.D

Acq: 29 Apr 2025 15:58

Instrument :

MSVOA_L

ClientSampleId :

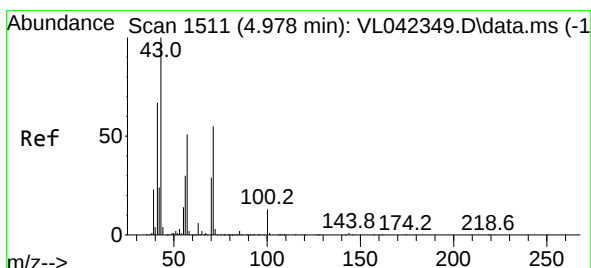
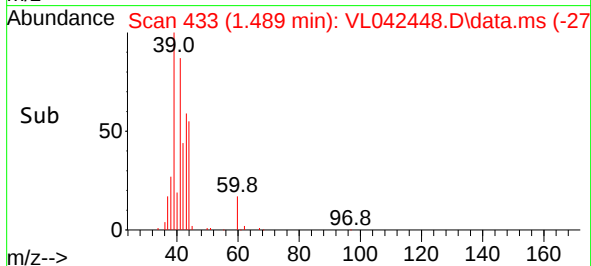
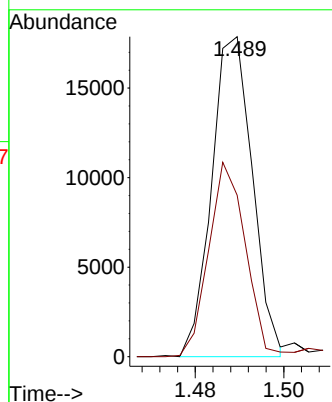
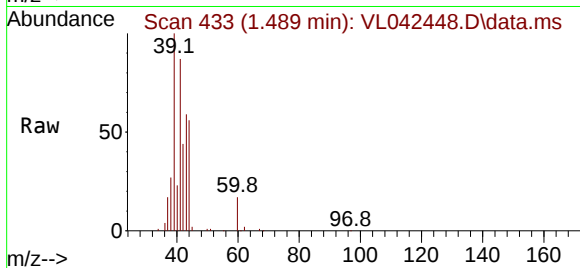
EBR-P16-SC-SS01-20250422

Tgt Ion: 41 Resp: 11421

Ion Ratio Lower Upper

41 100

42 57.0 56.2 84.4



#10

Heptane

Concen: 0.059 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.010 min

Lab File: VL042448.D

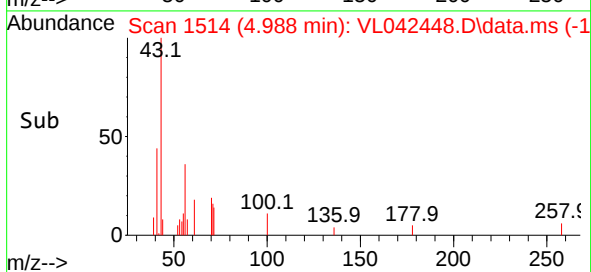
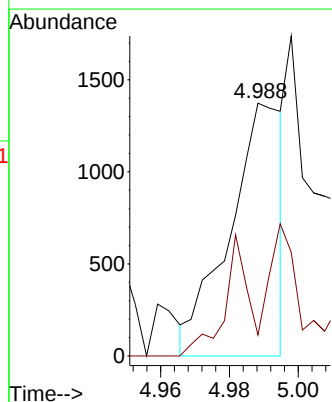
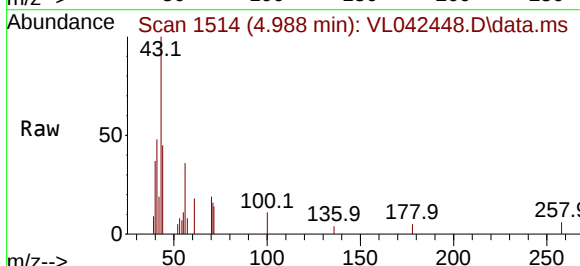
Acq: 29 Apr 2025 15:58

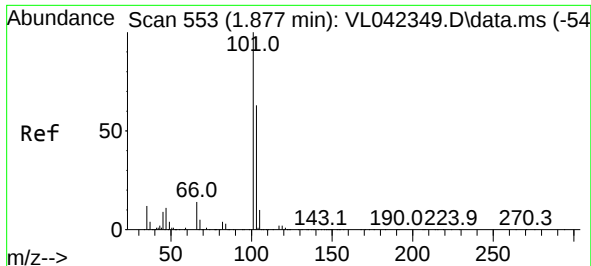
Tgt Ion: 43 Resp: 1453

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#





#11

Trichlorofluoromethane

Concen: 0.227 ppbv

RT: 1.881 min Scan# 511

Delta R.T. 0.004 min

Lab File: VL042448.D

Acq: 29 Apr 2025 15:58

Instrument :

MSVOA_L

ClientSampleId :

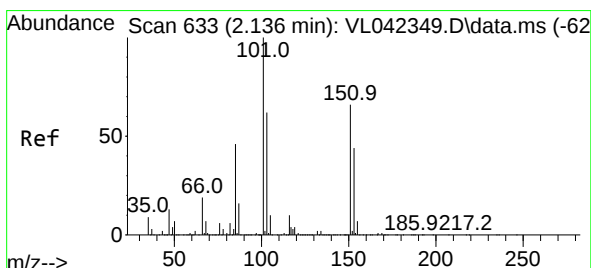
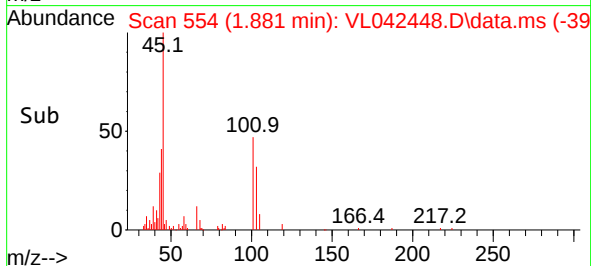
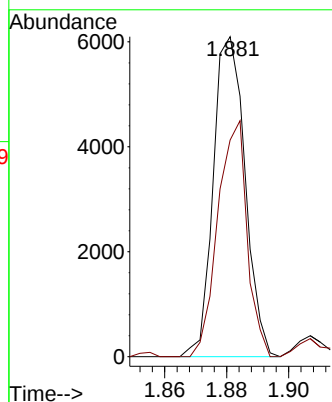
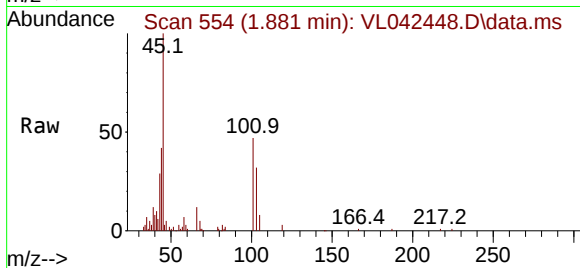
EBR-P16-SC-SS01-20250422

Tgt Ion:101 Resp: 4348

Ion Ratio Lower Upper

101 100

103 67.7 50.1 75.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.072 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.007 min

Lab File: VL042448.D

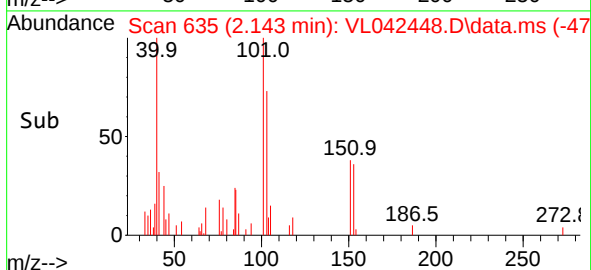
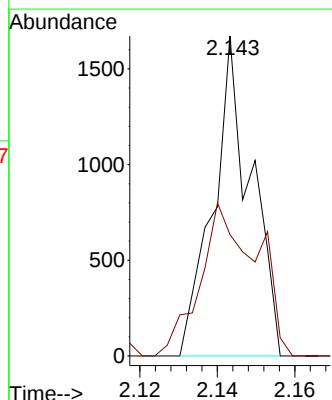
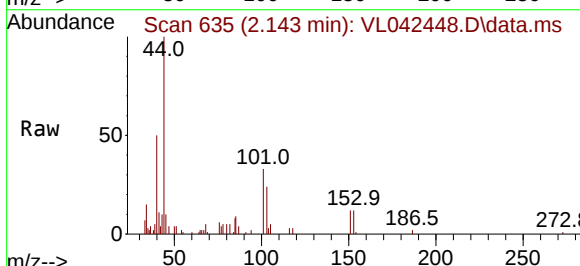
Acq: 29 Apr 2025 15:58

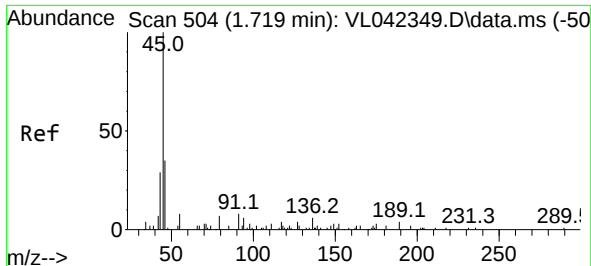
Tgt Ion:101 Resp: 1134

Ion Ratio Lower Upper

101 100

151 73.5 57.0 85.6

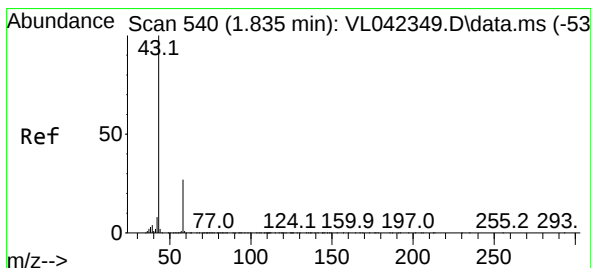
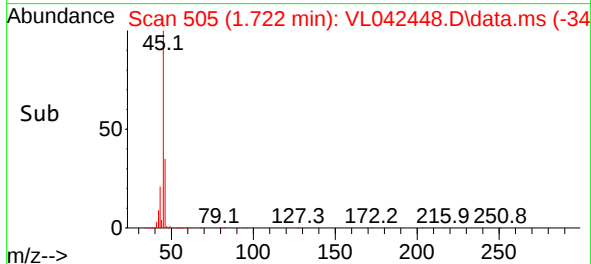
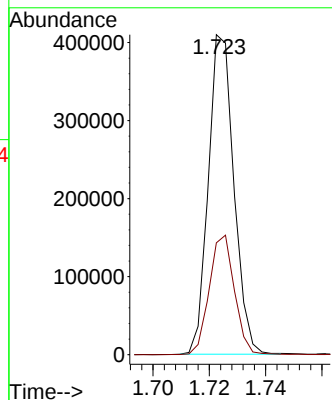
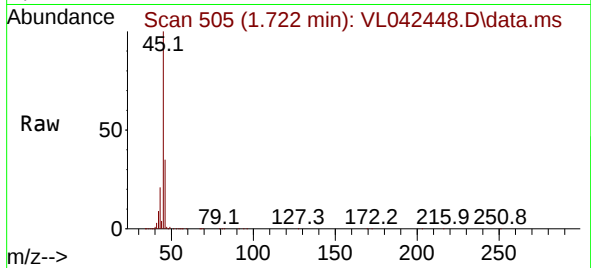




#13
Ethanol
Concen: 185.543 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

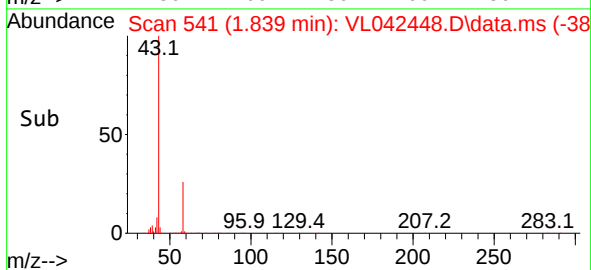
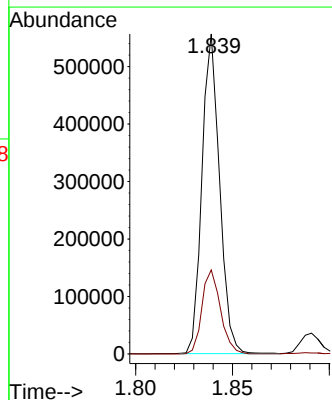
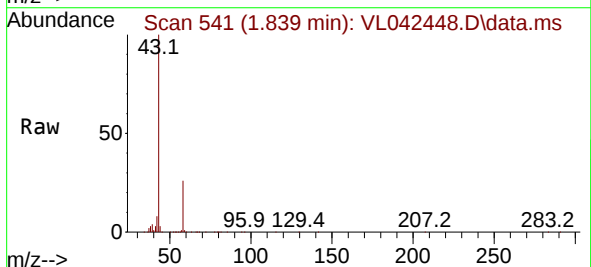
Instrument :
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ClientSampleId :
EBR-P16-SC-SS01-20250422

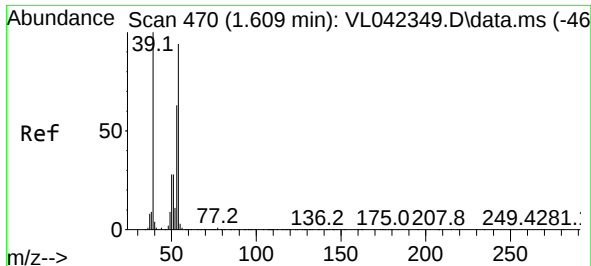
Tgt Ion: 45 Resp: 257788
Ion Ratio Lower Upper
45 100
46 37.3 21.9 87.7



#15
Acetone
Concen: 18.876 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 43 Resp: 352540
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

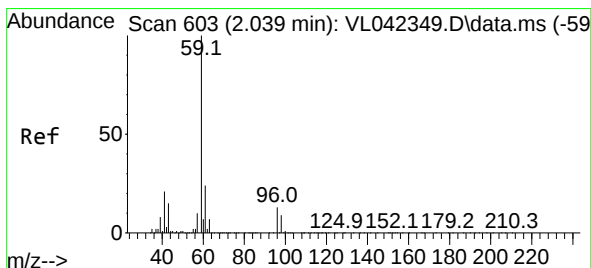
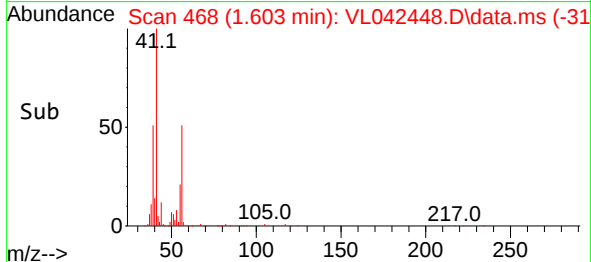
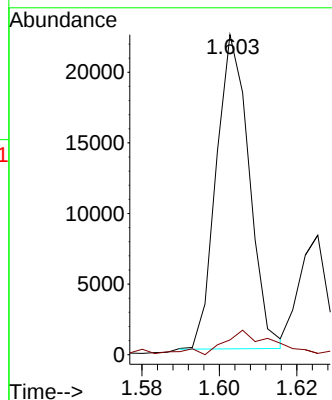
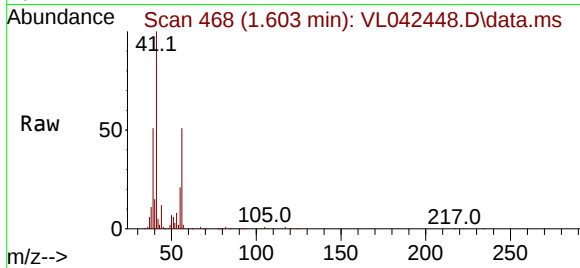




#16
1,3-Butadiene
Concen: 1.468 ppbv
RT: 1.603 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

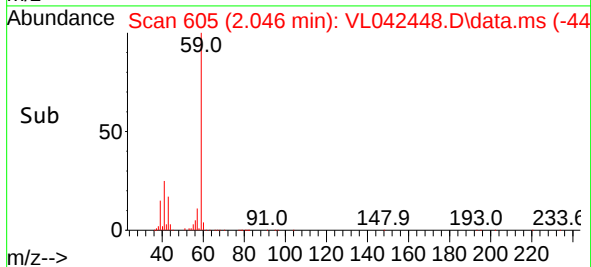
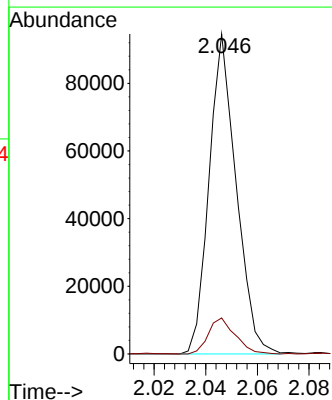
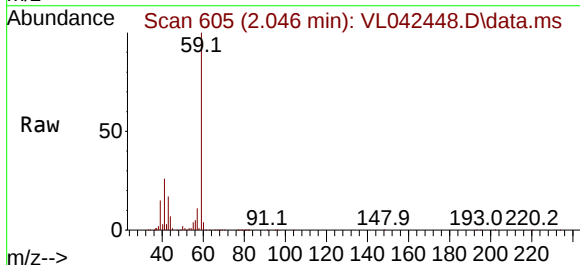
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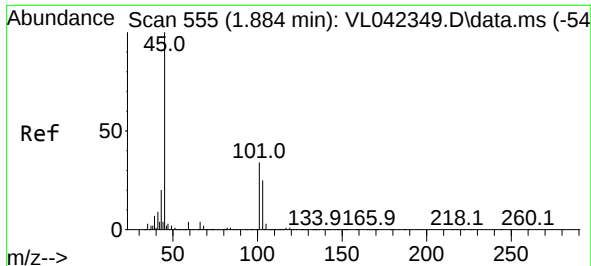
Tgt Ion: 39 Resp: 13117
Ion Ratio Lower Upper
39 100
54 13.2 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 2.980 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 59 Resp: 68971
Ion Ratio Lower Upper
59 100
57 11.5 8.7 13.1

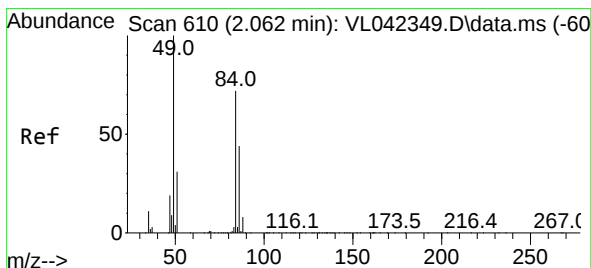
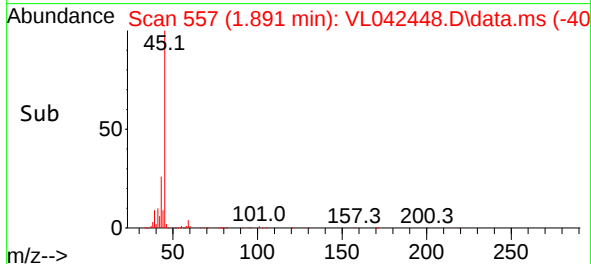
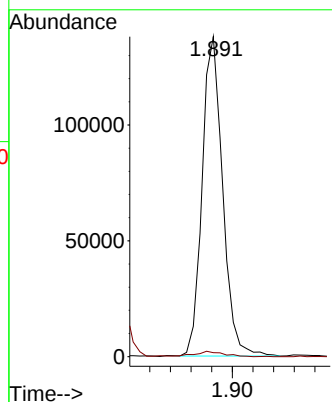
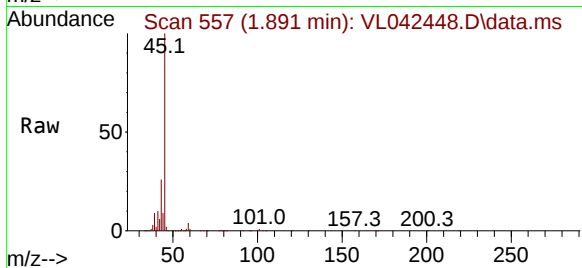




#19
Isopropyl Alcohol
Concen: 9.150 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

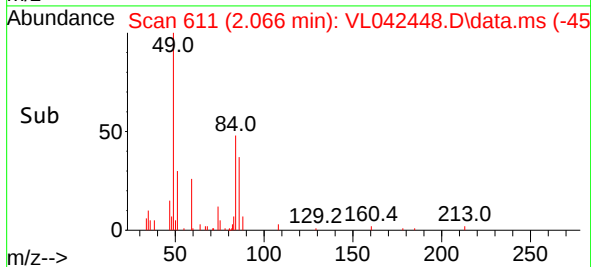
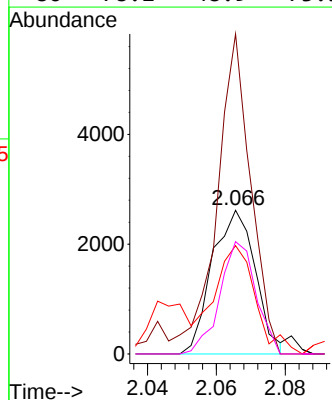
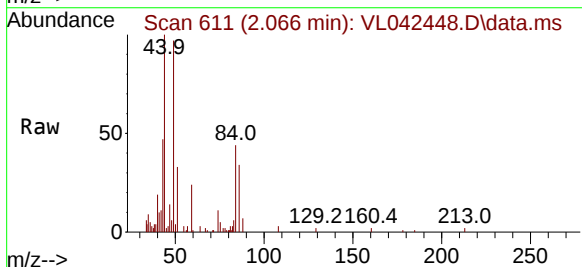
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-SS01-20250422

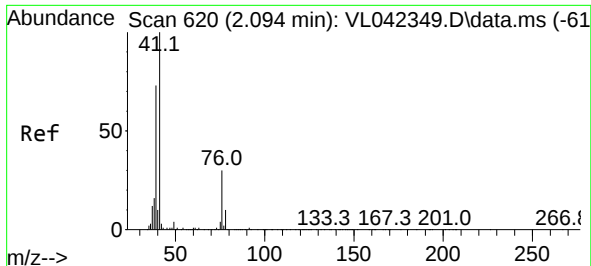
Tgt Ion: 45 Resp: 94932
Ion Ratio Lower Upper
45 100
58 102.7 34.5 51.7#



#20
Methylene Chloride
Concen: 0.311 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 84 Resp: 2278
Ion Ratio Lower Upper
84 100
49 222.7 111.6 167.4#
51 61.9 35.1 52.7#
86 78.2 48.9 73.3#

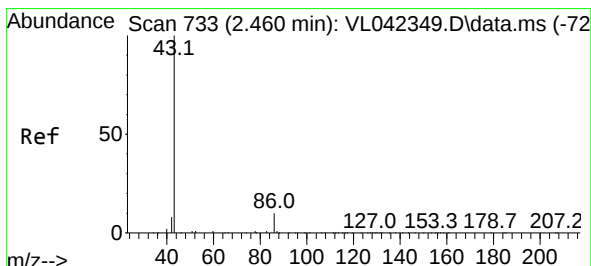
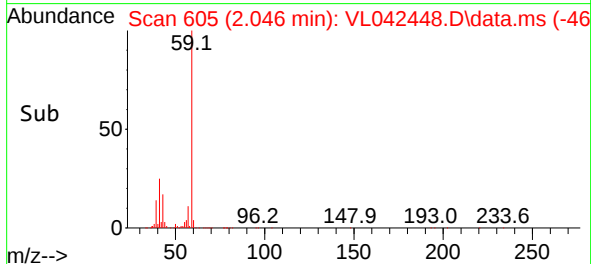
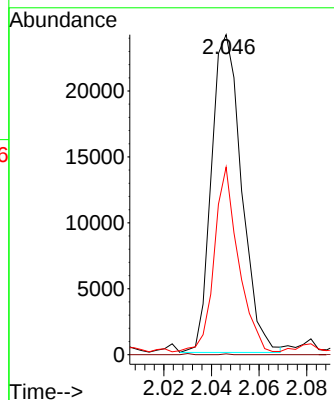
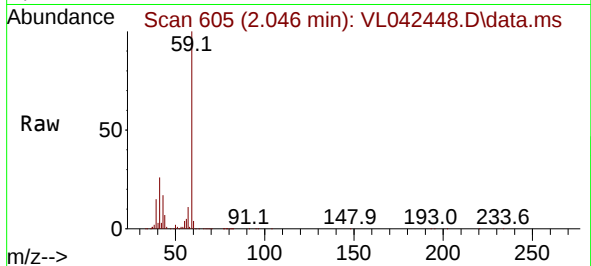




#21
 Allyl Chloride
 Concen: 1.643 ppbv
 RT: 2.046 min Scan# 605
 Delta R.T. -0.048 min
 Lab File: VL042448.D
 Acq: 29 Apr 2025 15:58

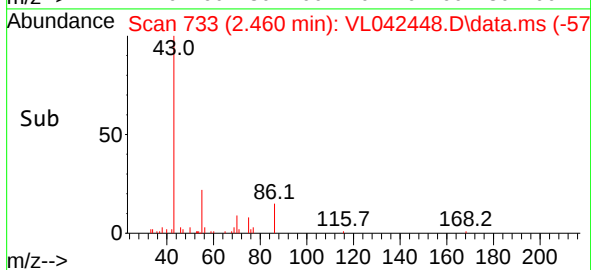
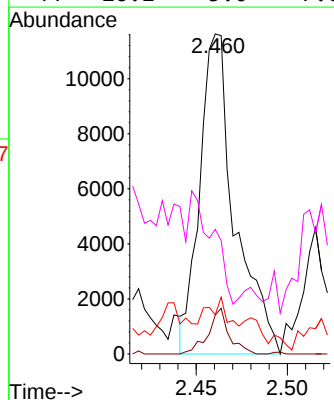
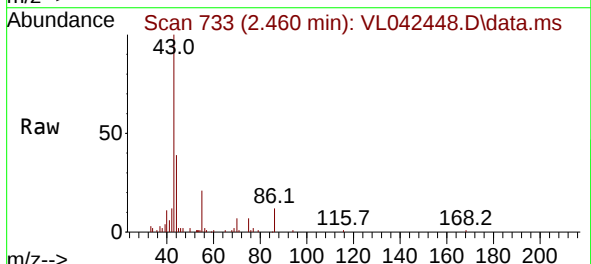
Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P16-SC-SS01-20250422

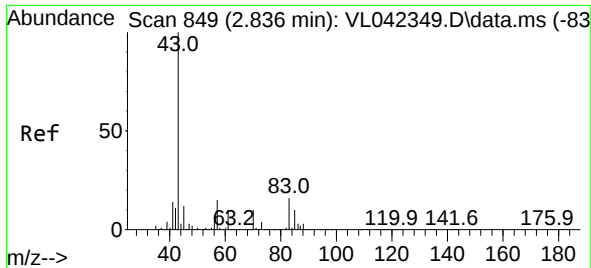
Tgt Ion: 41 Resp: 21187
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.8 37.2#
 39 51.3 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 2.063 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042448.D
 Acq: 29 Apr 2025 15:58

Tgt Ion: 43 Resp: 15595
 Ion Ratio Lower Upper
 43 100
 86 12.2 6.5 9.7#
 42 7.2 7.8 11.8#
 44 26.2 5.0 7.6#

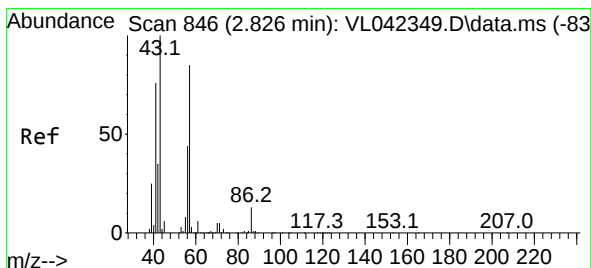
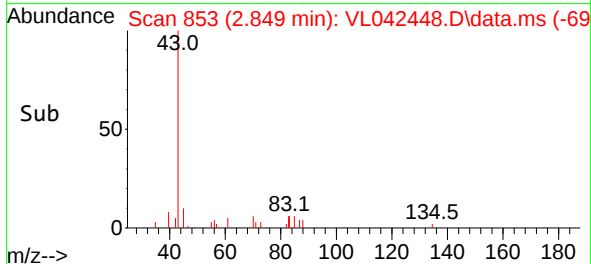
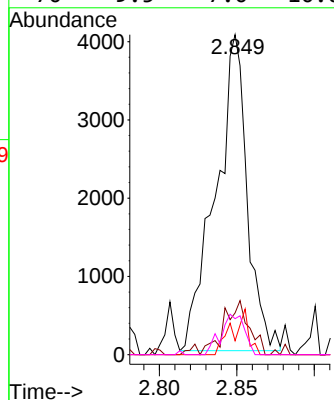
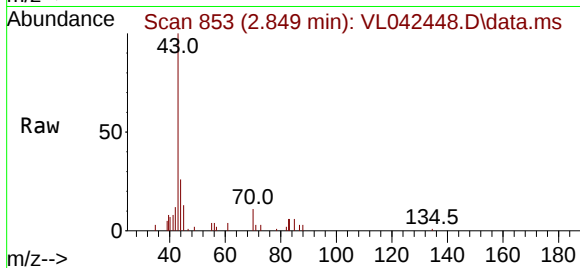




#25
Ethyl Acetate
Concen: 0.125 ppbv
RT: 2.849 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

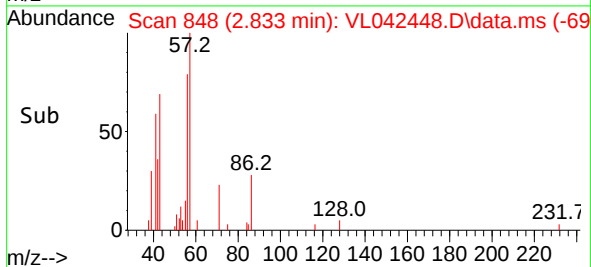
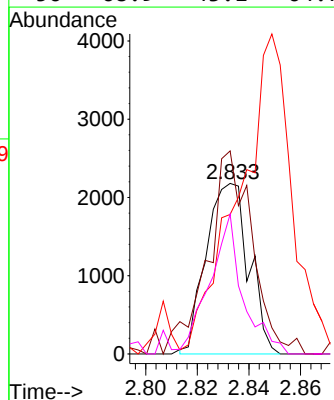
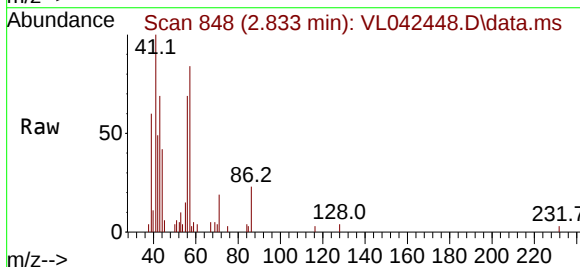
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-SS01-20250422

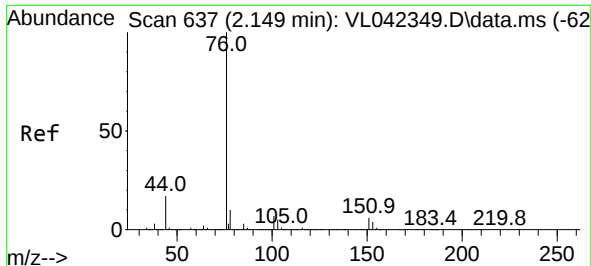
Tgt Ion: 43	Resp: 5734
Ion Ratio	Lower Upper
43 100	
45 15.0	8.3 12.5#
61 7.5	7.3 10.9
70 9.5	7.0 10.6



#26
Hexane
Concen: 0.135 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 57	Resp: 2509
Ion Ratio	Lower Upper
57 100	
41 127.1	77.9 116.9#
43 265.2	208.4 312.6
56 68.9	43.1 64.7#





#27

Carbon Disulfide

Concen: 0.099 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.007 min

Lab File: VL042448.D

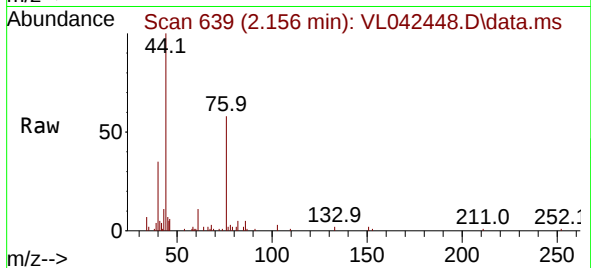
Acq: 29 Apr 2025 15:58

Instrument :

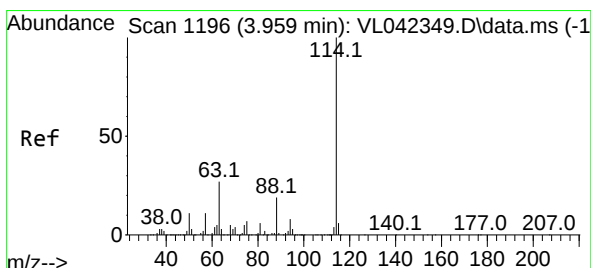
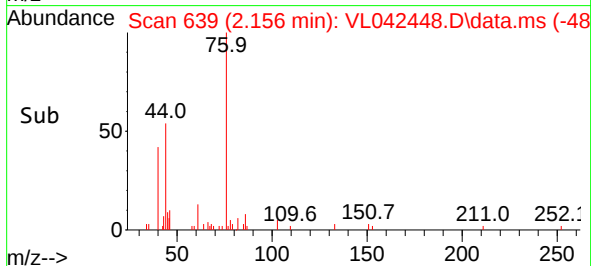
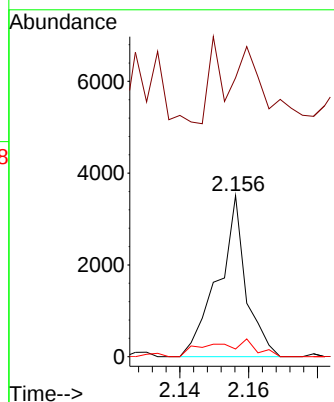
MSVOA_L

ClientSampleId :

EBR-P16-SC-SS01-20250422



Tgt Ion:	76	Resp:	1970
Ion Ratio	Lower	Upper	
76	100		
44	773.0	15.5	23.3#
78	18.6	9.3	13.9#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

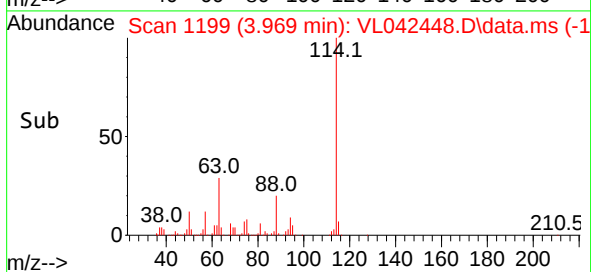
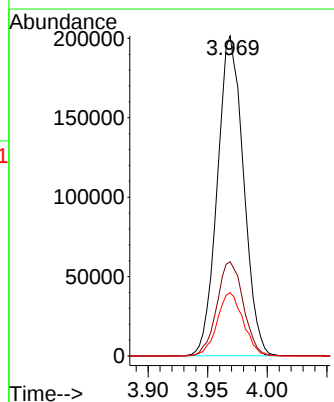
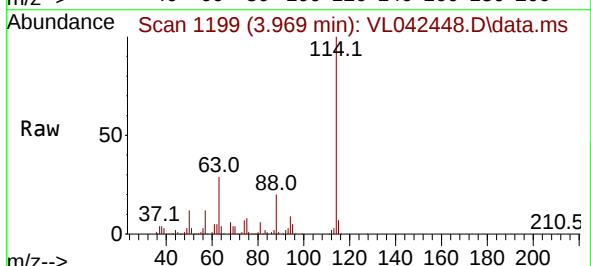
RT: 3.969 min Scan# 1199

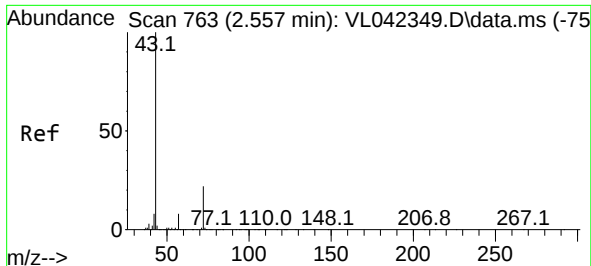
Delta R.T. 0.010 min

Lab File: VL042448.D

Acq: 29 Apr 2025 15:58

Tgt Ion:	114	Resp:	307114
Ion Ratio	Lower	Upper	
114	100		
63	29.9	21.8	32.6
88	19.8	15.5	23.3

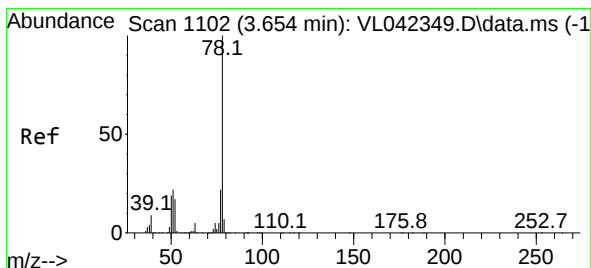
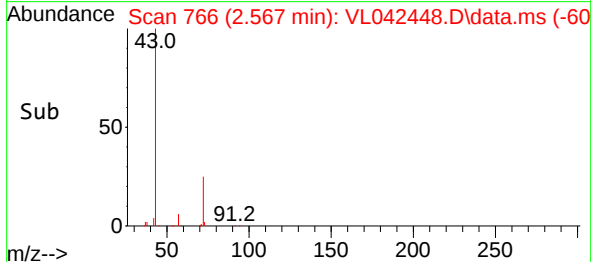
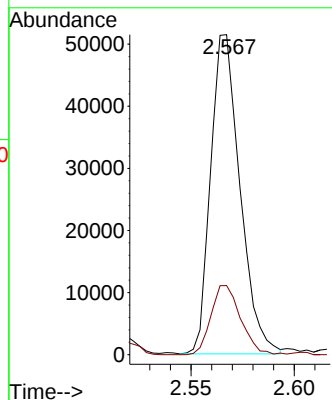
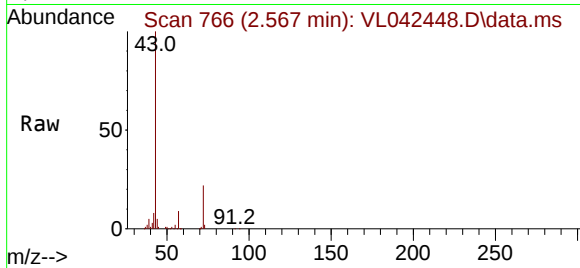




#34
2-Butanone
Concen: 2.095 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

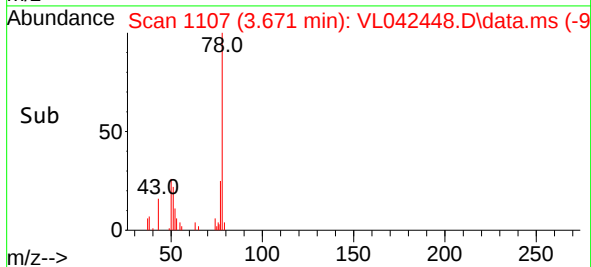
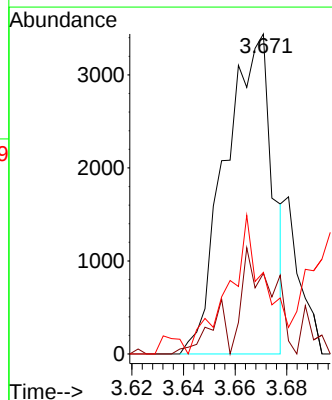
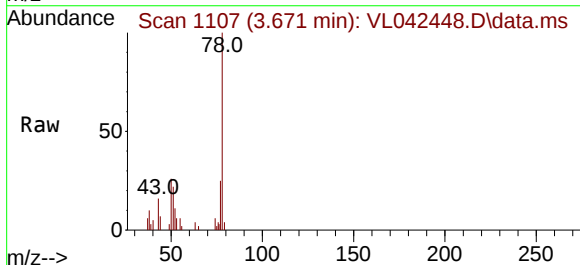
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-SS01-20250422

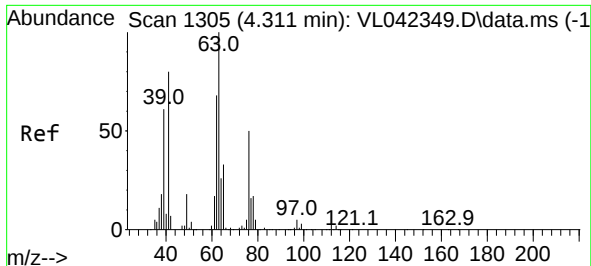
Tgt Ion: 43 Resp: 50884
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2



#36
Benzene
Concen: 0.132 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.017 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 78 Resp: 4385
Ion Ratio Lower Upper
78 100
77 23.6 17.4 26.0
50 20.9 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.374 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042448.D

Acq: 29 Apr 2025 15:58

Instrument :

MSVOA_L

ClientSampleId :

EBR-P16-SC-SS01-20250422

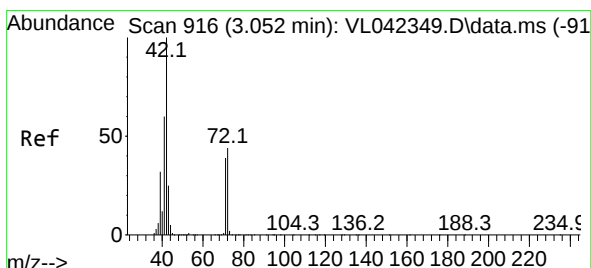
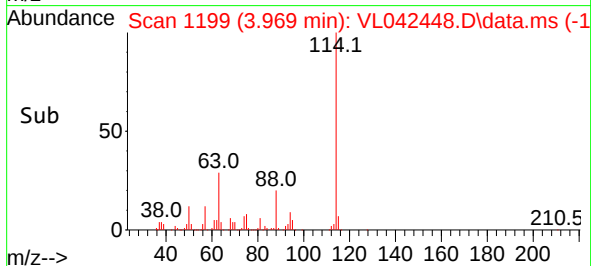
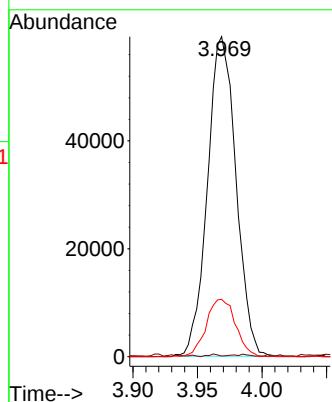
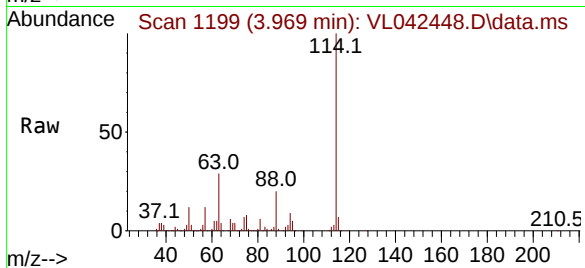
Tgt Ion: 63 Resp: 91029

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.9 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.406 ppbv

RT: 3.072 min Scan# 922

Delta R.T. 0.020 min

Lab File: VL042448.D

Acq: 29 Apr 2025 15:58

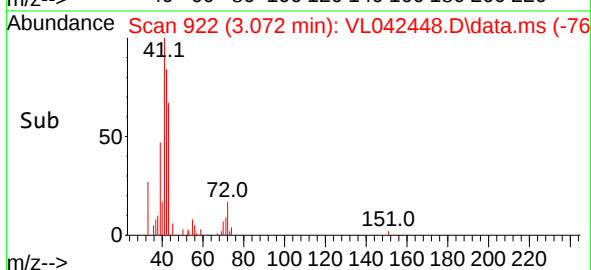
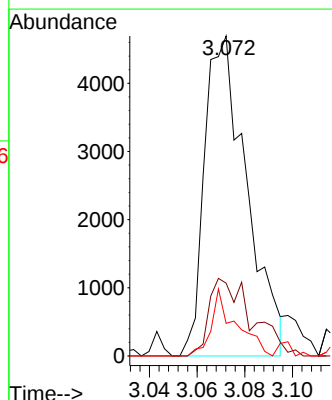
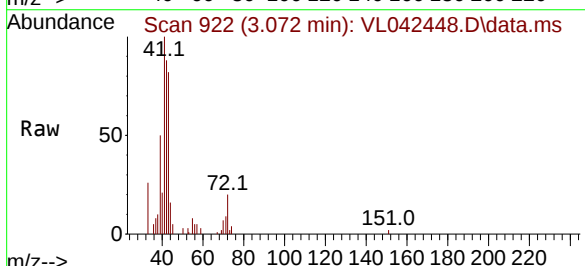
Tgt Ion: 42 Resp: 5749

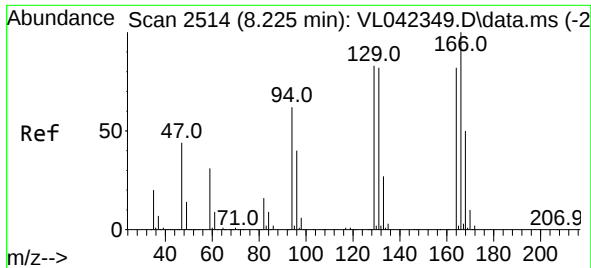
Ion Ratio Lower Upper

42 100

72 24.8 32.3 48.5#

71 13.6 31.4 47.2#

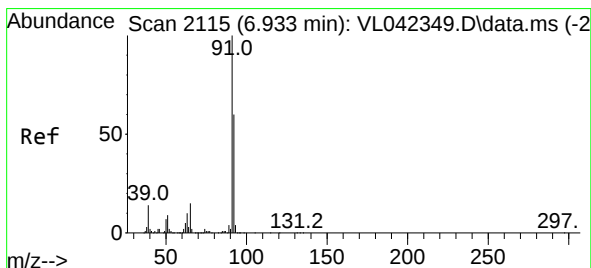
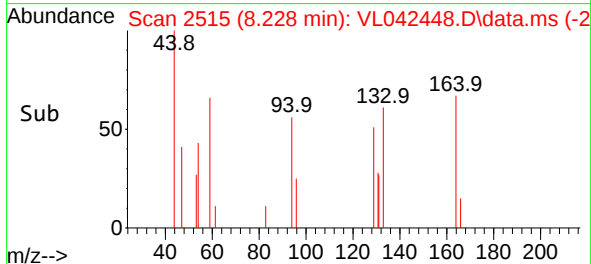
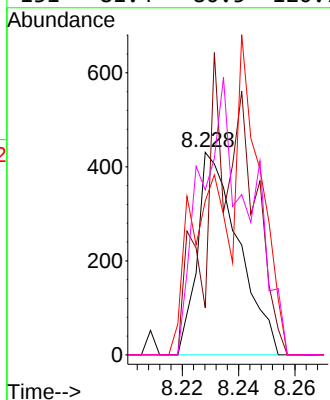
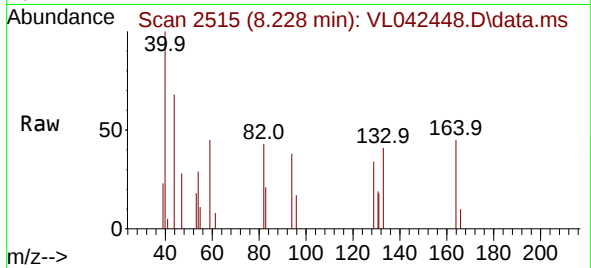




#52
Tetrachloroethene
Concen: 0.034 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. 0.004 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

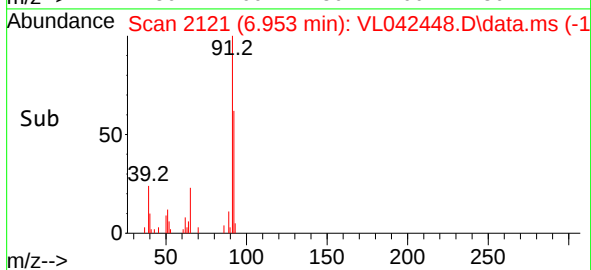
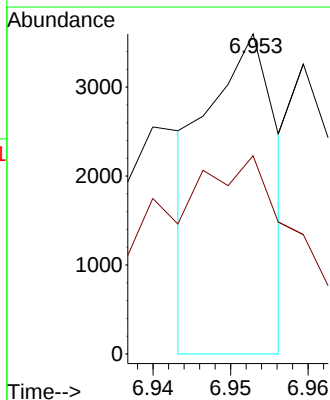
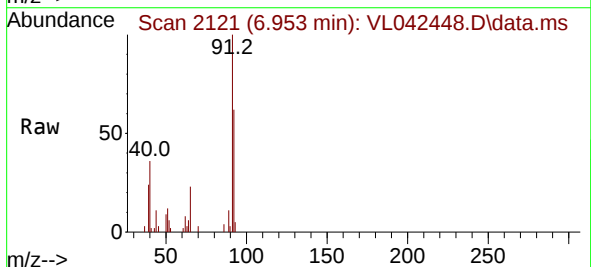
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-SS01-20250422

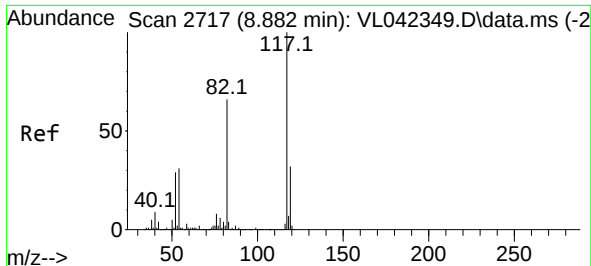
Tgt Ion:164 Resp: 438
Ion Ratio Lower Upper
164 100
166 23.2 98.2 147.2#
129 60.6 81.8 122.8#
131 81.4 80.5 120.7



#53
Toluene
Concen: 0.057 ppbv
RT: 6.953 min Scan# 2121
Delta R.T. 0.020 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 91 Resp: 2284
Ion Ratio Lower Upper
91 100
92 180.3 48.2 72.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.892 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042448.D

Acq: 29 Apr 2025 15:58

Instrument :

MSVOA_L

ClientSampleId :

EBR-P16-SC-SS01-20250422

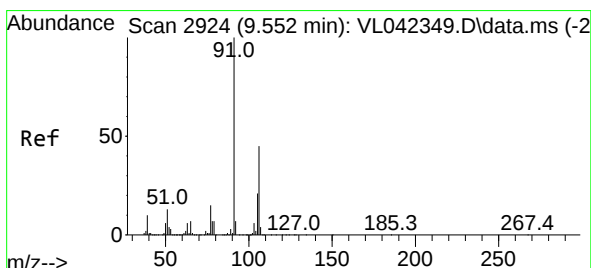
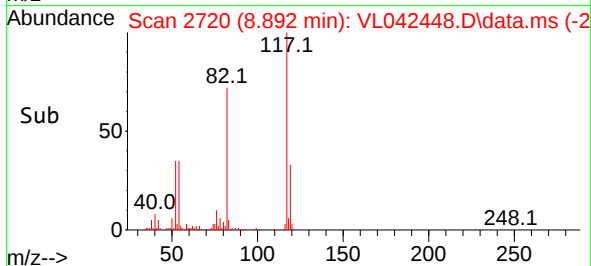
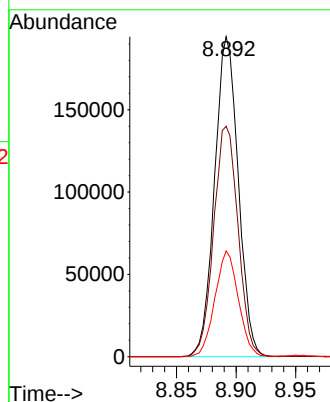
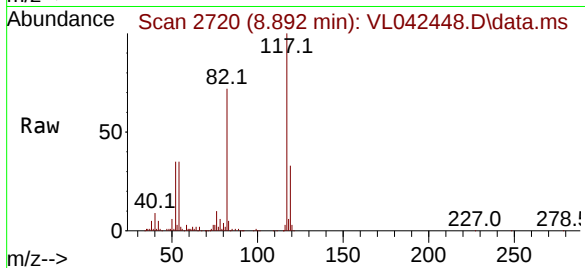
Tgt Ion:117 Resp: 268915

Ion Ratio Lower Upper

117 100

82 74.1 57.8 86.6

119 32.7 25.2 37.8



#59

m/p-Xylene

Concen: 0.069 ppbv

RT: 9.562 min Scan# 2927

Delta R.T. 0.010 min

Lab File: VL042448.D

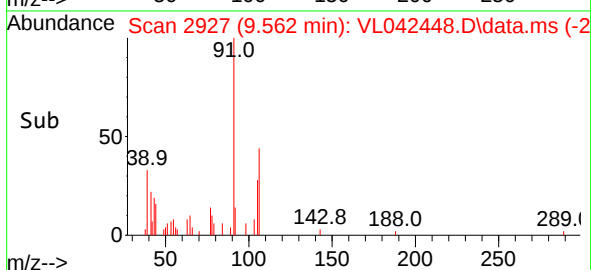
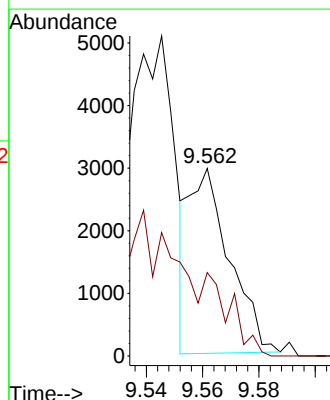
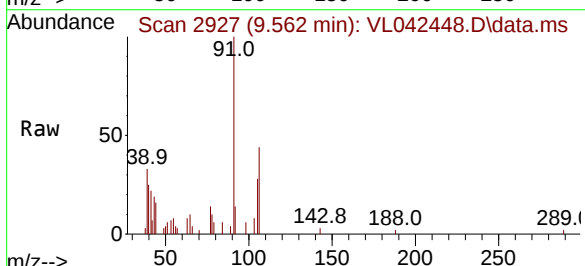
Acq: 29 Apr 2025 15:58

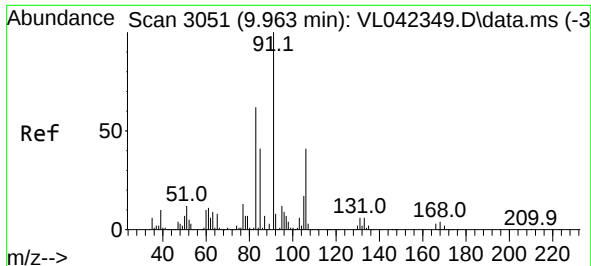
Tgt Ion: 91 Resp: 2975

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#

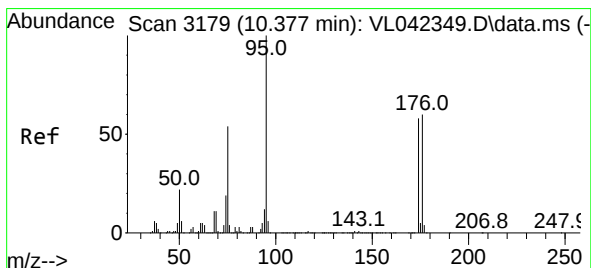
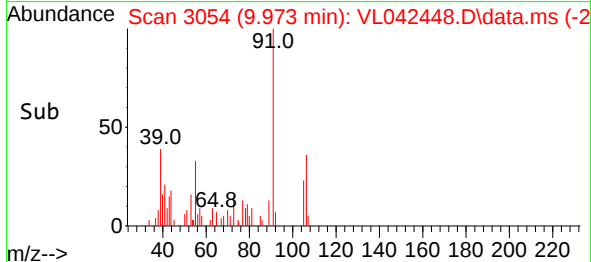
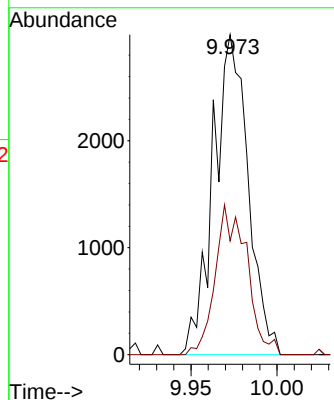
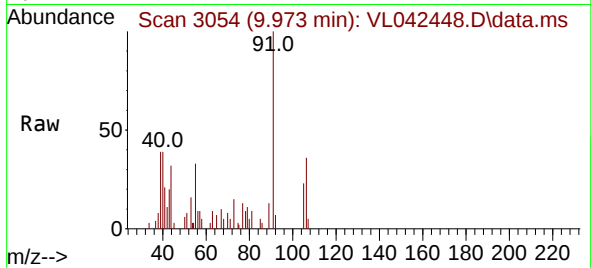




#60
o-Xylene
Concen: 0.097 ppbv
RT: 9.973 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

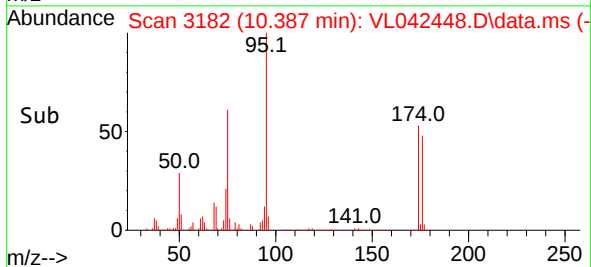
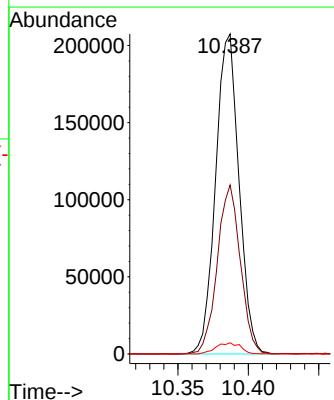
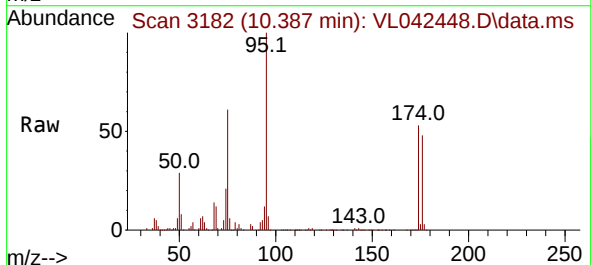
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-SS01-20250422

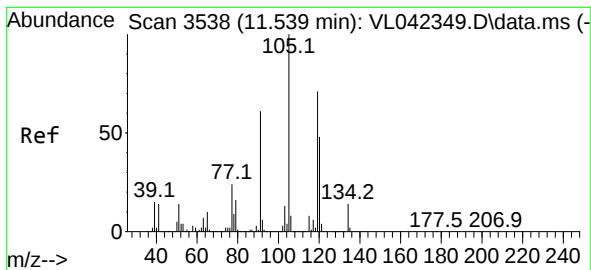
Tgt Ion: 91 Resp: 4213
Ion Ratio Lower Upper
91 100
106 42.2 21.1 63.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.847 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.010 min
Lab File: VL042448.D
Acq: 29 Apr 2025 15:58

Tgt Ion: 95 Resp: 239688
Ion Ratio Lower Upper
95 100
174 52.2 48.5 72.7
175 3.7 3.7 5.5#





#74

1,2,4-Trimethylbenzene

Concen: 0.036 ppbv

RT: 11.549 min Scan# 3

Delta R.T. 0.010 min

Lab File: VL042448.D

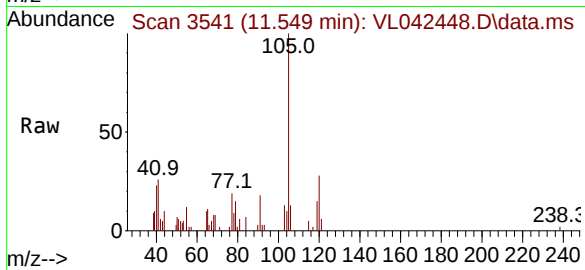
Acq: 29 Apr 2025 15:58

Instrument :

MSVOA_L

ClientSampleId :

EBR-P16-SC-SS01-20250422



Tgt Ion:105 Resp: 1942

Ion Ratio Lower Upper

105 100

120 25.4 38.1 57.1#

91 18.3 48.8 73.2#

77 19.0 19.0 28.4#

