

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042447.D
 Acq On : 29 Apr 2025 15:24
 Operator : SY/MD
 Sample : Q1880-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-SC-SS-DUP01-20250421

Quant Time: Apr 30 01:21:44 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)

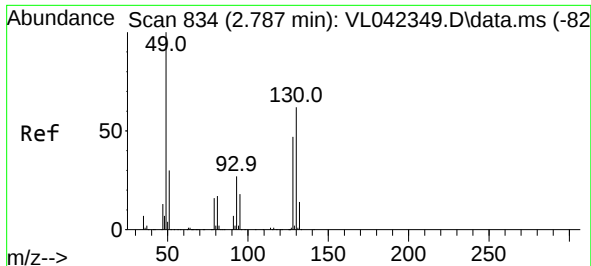
Internal Standards						
1) Bromochloromethane	2.797	49	115955	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	311045	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	264660	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	244219	11.229	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 112.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10985	0.536	ppbv	89
3) Chlorodifluoromethane	1.476	51	6328	0.324	ppbv	95
4) Chloromethane	1.531	50	2251	0.278	ppbv #	84
6) Bromomethane	1.670	94	115	0.030	ppbv #	8
9) Propene	1.486	41	3214	0.362	ppbv	88
11) Trichlorofluoromethane	1.910	101	1557	0.080	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.149	101	1743	0.109	ppbv	91
13) Ethanol	1.725	45	55964	39.631	ppbv	76
15) Acetone	1.842	43	213041	11.223	ppbv	100
16) 1,3-Butadiene	1.612	39	575	0.063	ppbv #	72
17) tert-Butyl alcohol	2.049	59	12602	0.536	ppbv #	87
19) Isopropyl Alcohol	1.910	45	5886	0.558	ppbv #	33
20) Methylene Chloride	2.072	84	3817	0.513	ppbv	90
23) Vinyl Acetate	2.463	43	10774	1.402	ppbv #	77
25) Ethyl Acetate	2.835	43	5145	0.110	ppbv #	80
26) Hexane	2.832	57	4823	0.255	ppbv #	37
27) Carbon Disulfide	2.156	76	801	0.039	ppbv #	1
32) 1,1,1-Trichloroethane	3.379	97	11120	0.369	ppbv	96
34) 2-Butanone	2.570	43	14964	0.608	ppbv	100
35) Carbon Tetrachloride	3.777	117	1680	0.060	ppbv	84
36) Benzene	3.667	78	1799	0.054	ppbv	97
39) 1,2-Dichloropropane	3.975	63	92184	7.373	ppbv #	23
41) Tetrahydrofuran	3.078	42	2988	0.208	ppbv #	82
52) Tetrachloroethene	8.234	164	5308	0.409	ppbv	87
53) Toluene	6.952	91	3018	0.075	ppbv #	50
56) 1,1,1,2-Tetrachloroethane	8.949	131	942	0.059	ppbv #	1
58) Ethyl Benzene	9.367	91	1587	0.030	ppbv	93
60) o-Xylene	9.972	91	4440	0.104	ppbv	90
72) 4-Ethyltoluene	11.131	105	1668	0.032	ppbv #	55
74) 1,2,4-Trimethylbenzene	11.542	105	4998	0.093	ppbv #	67

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

Instrument :
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The chromatogram displays a series of peaks over a 21-minute period. The y-axis represents Abundance, ranging from 0 to 1,200,000. The x-axis represents Time in minutes, ranging from 0.00 to 21.00. Numerous peaks are identified and labeled with their corresponding chemical names. The most prominent peaks are labeled with their retention times and chemical names, such as 1,2-Difluoropropane, II, and 1-Bromo-4-Fluorobenzene, S.

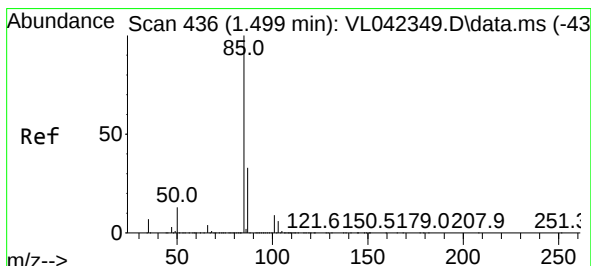
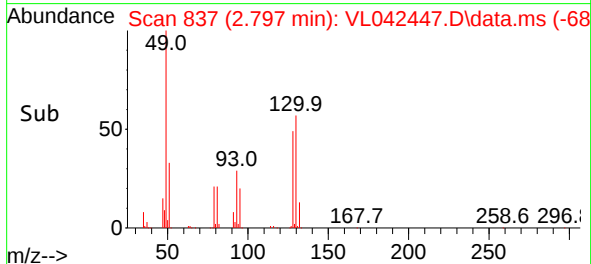
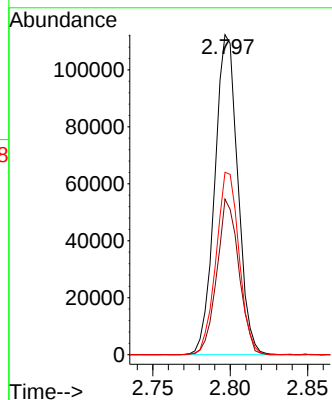
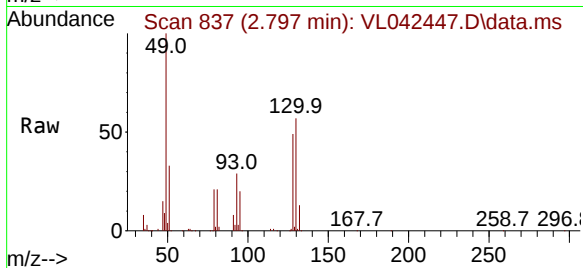
Retention Time (min)	Chemical Compound
1.00	1,1,1,2-Tetrachloroethane, I
1.50	1,1,1,2-Tetrachloroethane, I
1.80	1,1,1,2-Tetrachloroethane, I
2.00	1,1,1,2-Tetrachloroethane, I
2.20	1,1,1,2-Tetrachloroethane, I
2.50	1,1,1,2-Tetrachloroethane, I
2.80	1,1,1,2-Tetrachloroethane, I
3.00	1,1,1,2-Tetrachloroethane, I
3.50	1,1,1,2-Tetrachloroethane, I
4.00	1,2-Difluoropropane, II
7.00	Toluene, T
8.00	Tetrachloroethene, I
9.00	1,1,1,2-Tetrachloroethane
9.50	Chlorobenzene-d5, I
10.00	Ethyl Benzene, T
10.50	o-Xylene, T
11.00	1-Bromo-4-Fluorobenzene, S
12.00	4-Ethyltoluene, T
12.50	1,2,4-Trimethylbenzene, T
13.00	1,2,4-Trimethylbenzene, T
14.00	1,2,4-Trimethylbenzene, T
15.00	1,2,4-Trimethylbenzene, T
16.00	1,2,4-Trimethylbenzene, T
17.00	1,2,4-Trimethylbenzene, T
18.00	1,2,4-Trimethylbenzene, T
19.00	1,2,4-Trimethylbenzene, T
20.00	1,2,4-Trimethylbenzene, T
21.00	1,2,4-Trimethylbenzene, T



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

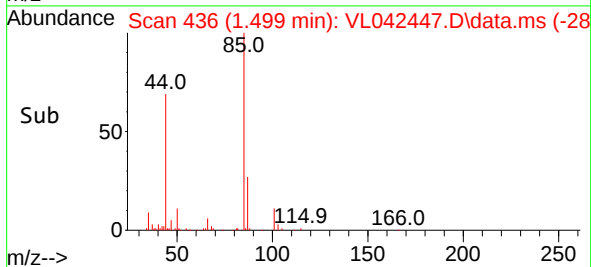
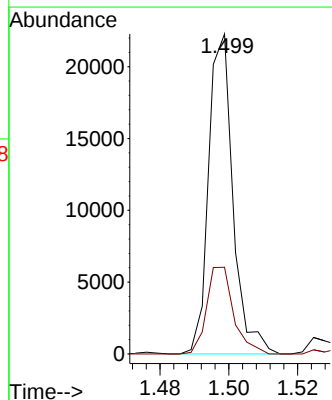
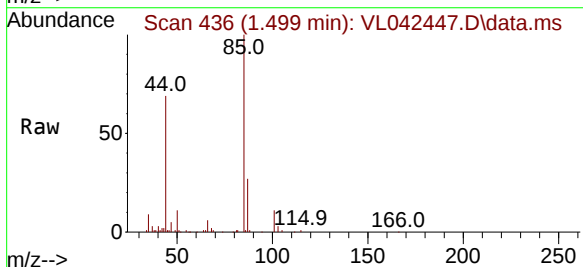
Instrument :
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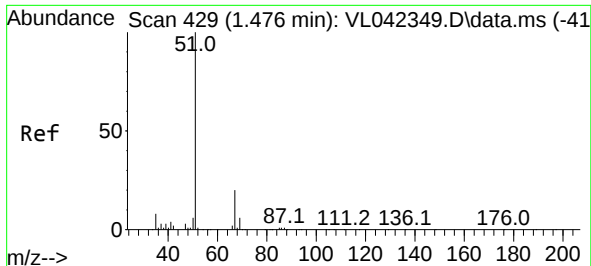
Tgt Ion: 49 Resp: 115955
Ion Ratio Lower Upper
49 100
128 46.7 22.8 68.4
130 57.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.536 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 85 Resp: 10985
Ion Ratio Lower Upper
85 100
87 27.1 26.6 39.8

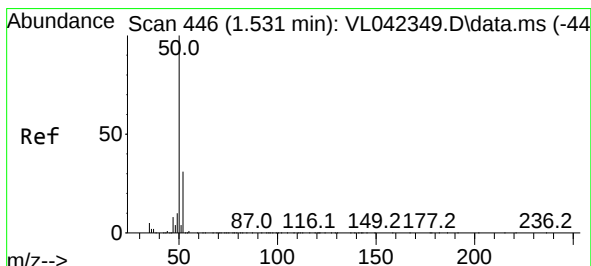
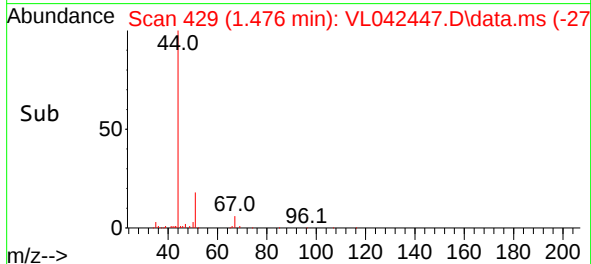
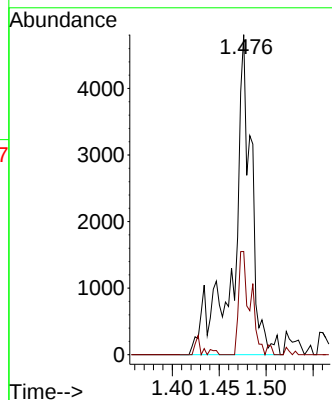
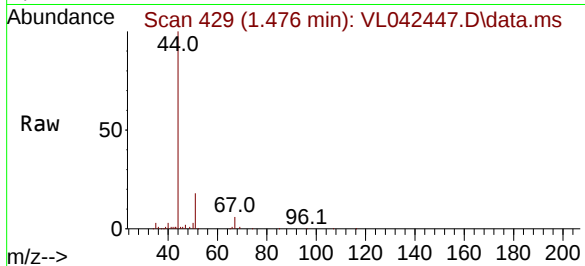




#3
Chlorodifluoromethane
Concen: 0.324 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

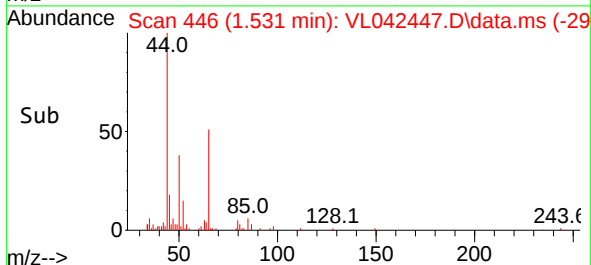
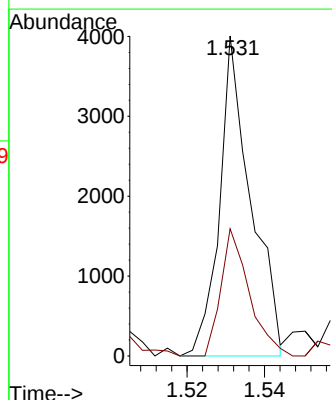
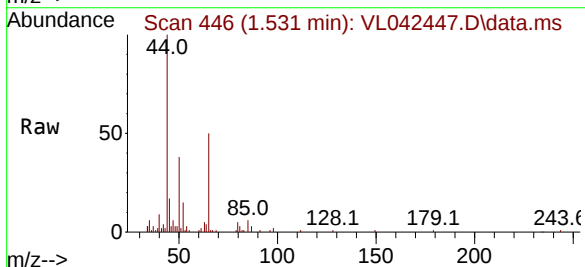
Instrument :
MSVOA_L
ClientSampleId :
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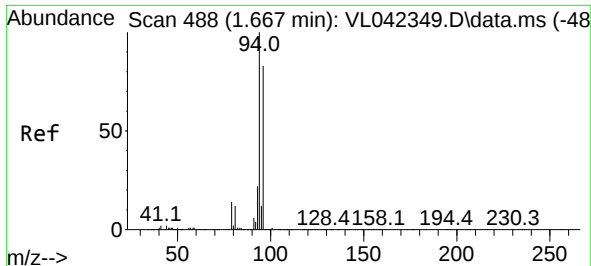
Tgt Ion: 51 Resp: 6328
Ion Ratio Lower Upper
51 100
67 22.4 16.2 24.4



#4
Chloromethane
Concen: 0.278 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 50 Resp: 2251
Ion Ratio Lower Upper
50 100
52 39.8 24.7 37.1#

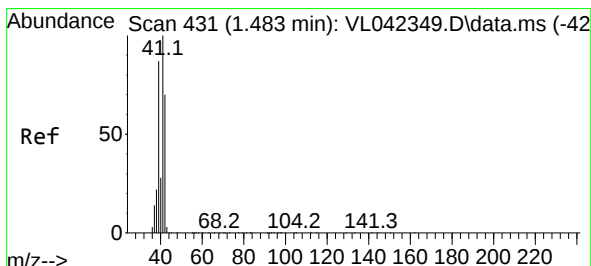
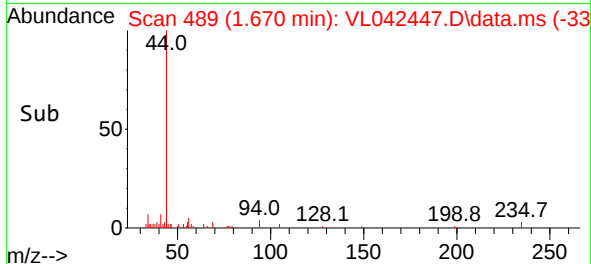
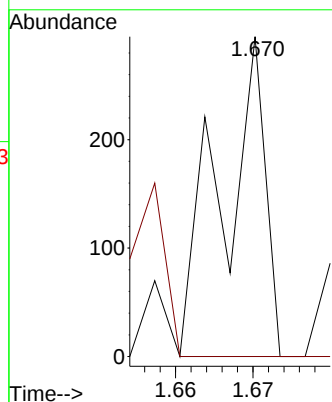
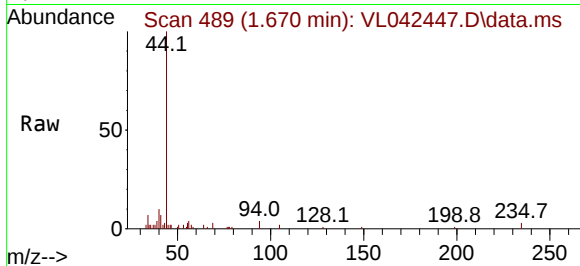




#6
Bromomethane
Concen: 0.030 ppbv
RT: 1.670 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

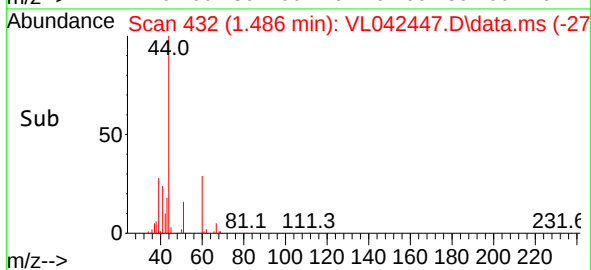
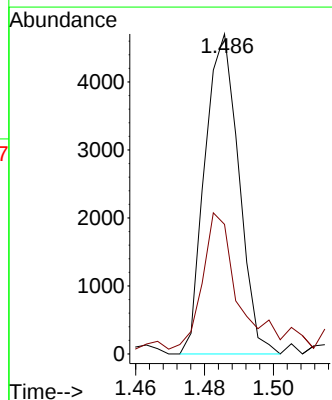
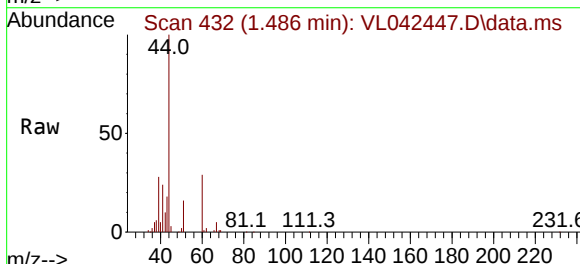
Instrument :
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ClientSampleId :
EBR-SC-SS-DUP01-20250421

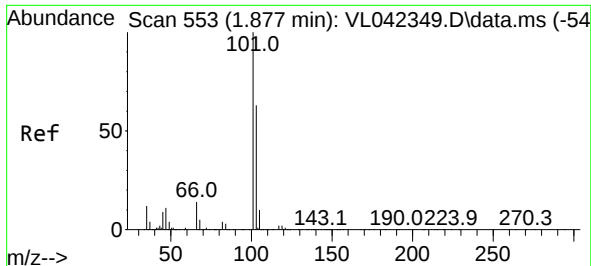
Tgt Ion: 94 Resp: 115
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#9
Propene
Concen: 0.362 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 41 Resp: 3214
Ion Ratio Lower Upper
41 100
42 60.1 56.2 84.4

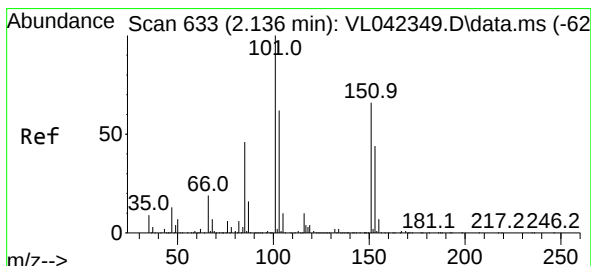
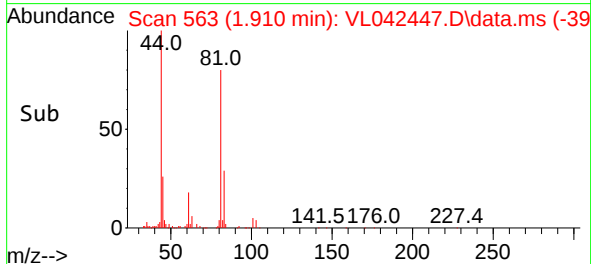
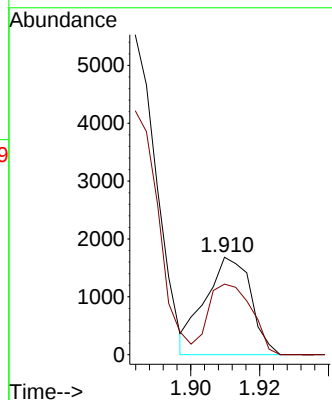
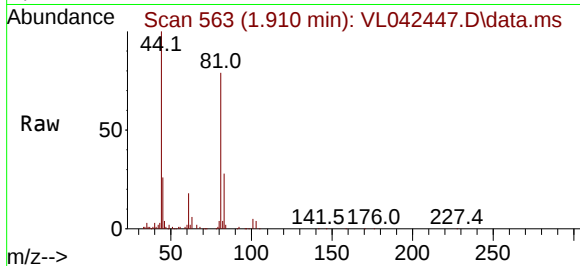




#11
 Trichlorofluoromethane
 Concen: 0.080 ppbv
 RT: 1.910 min Scan# 511
 Delta R.T. 0.032 min
 Lab File: VL042447.D
 Acq: 29 Apr 2025 15:24

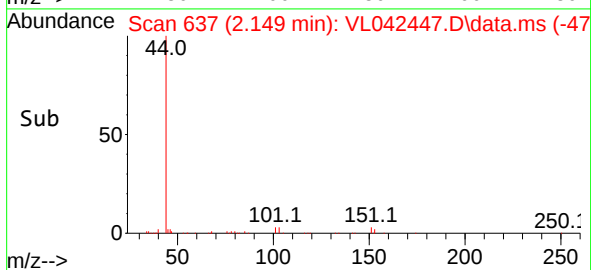
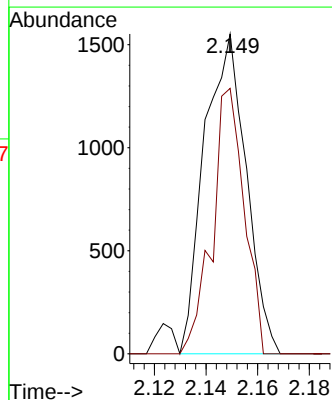
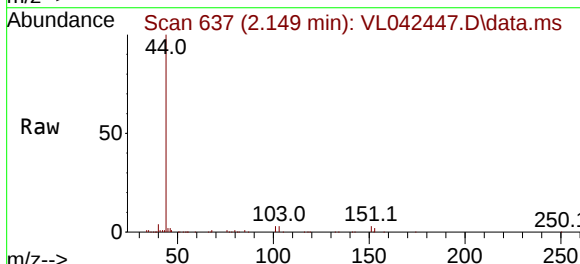
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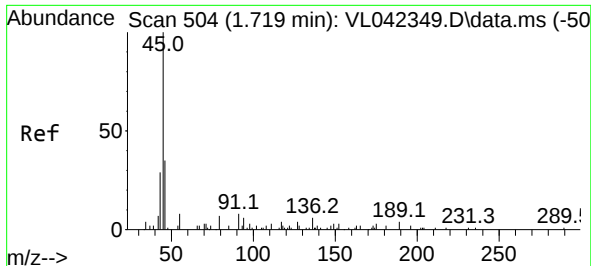
Tgt Ion:101 Resp: 1557
 Ion Ratio Lower Upper
 101 100
 103 72.5 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.109 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: VL042447.D
 Acq: 29 Apr 2025 15:24

Tgt Ion:101 Resp: 1743
 Ion Ratio Lower Upper
 101 100
 151 63.6 57.0 85.6

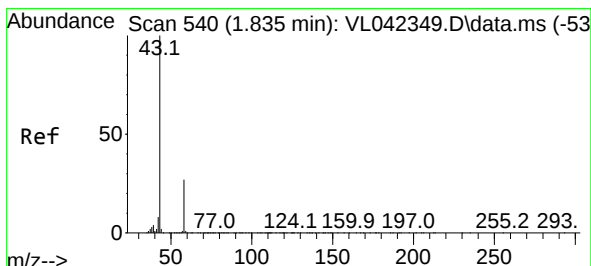
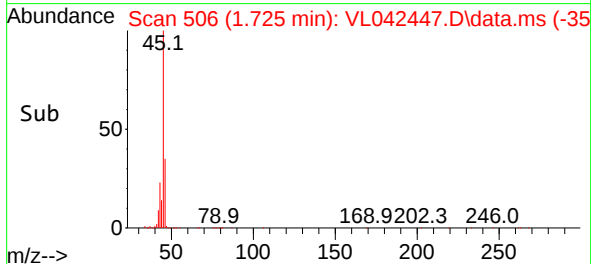
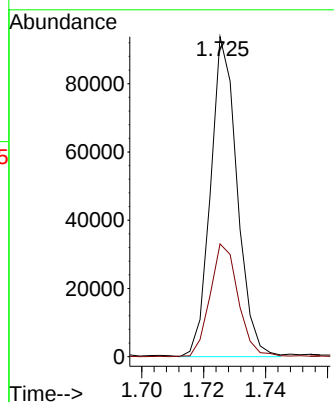
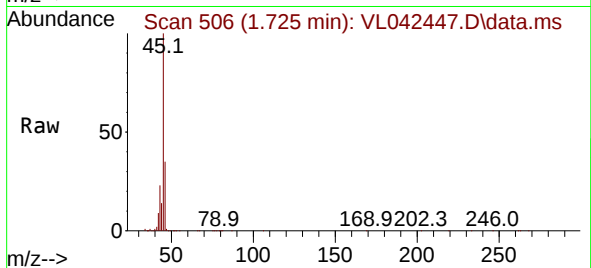




#13
Ethanol
Concen: 39.631 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

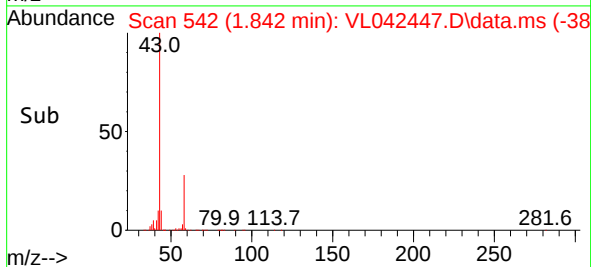
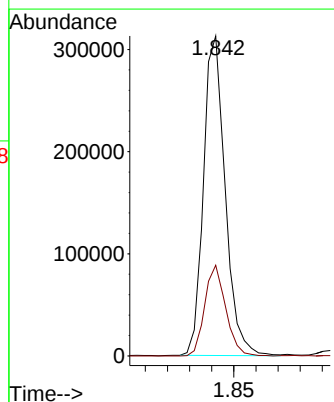
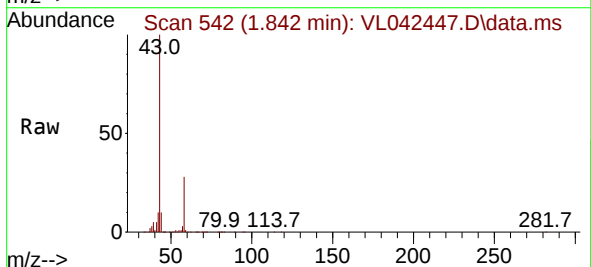
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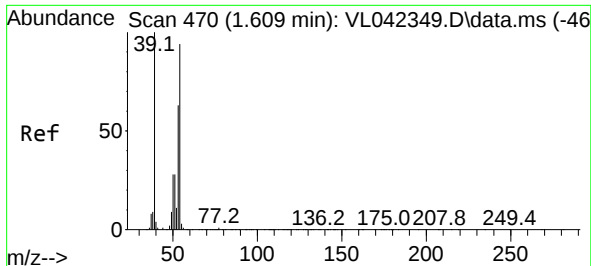
Tgt Ion: 45 Resp: 55964
Ion Ratio Lower Upper
45 100
46 37.7 21.9 87.7



#15
Acetone
Concen: 11.223 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.006 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 43 Resp: 213041
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

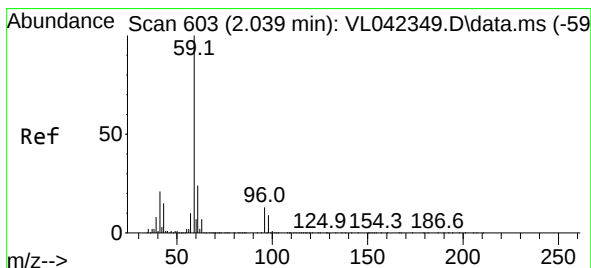
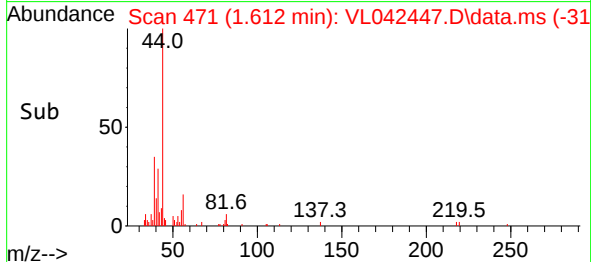
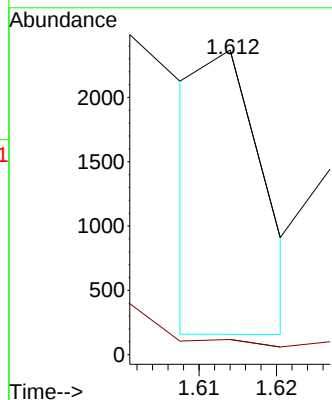
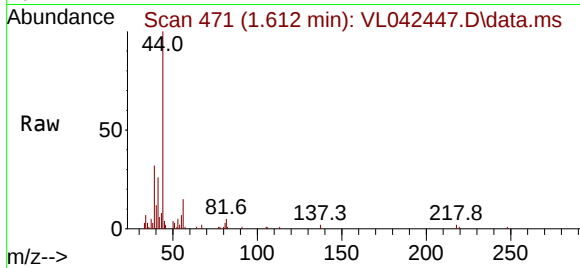




#16
1,3-Butadiene
Concen: 0.063 ppbv
RT: 1.612 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

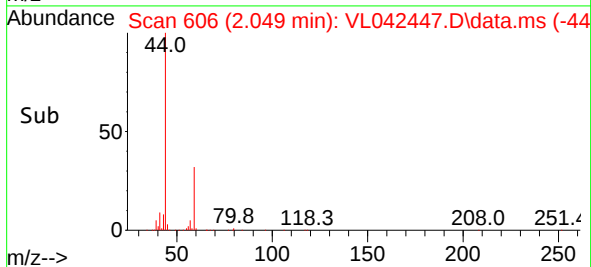
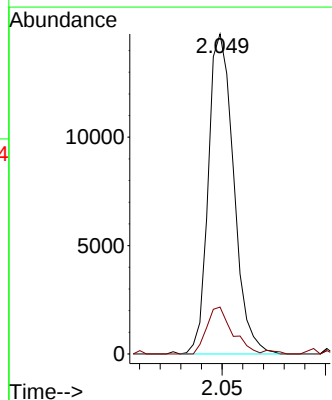
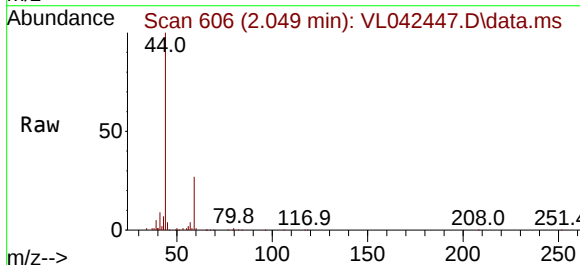
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EBR-SC-SS-DUP01-20250421

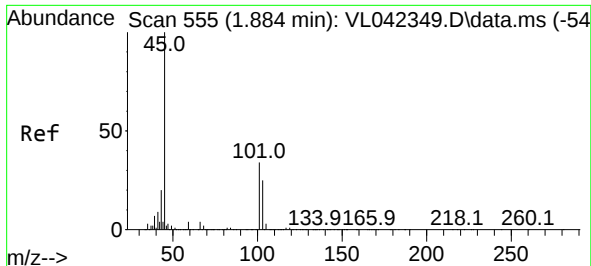
Tgt Ion: 39 Resp: 575
Ion Ratio Lower Upper
39 100
54 56.0 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.536 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 59 Resp: 12602
Ion Ratio Lower Upper
59 100
57 16.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.558 ppbv

RT: 1.910 min Scan# 5

Delta R.T. 0.026 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Instrument :

MSVOA_L

ClientSampleId :

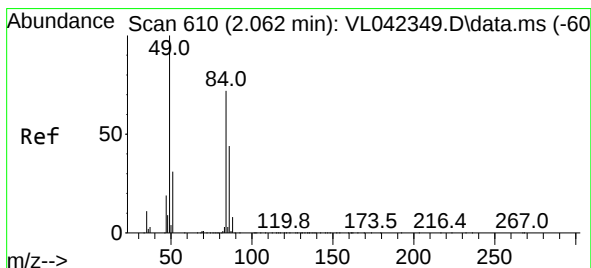
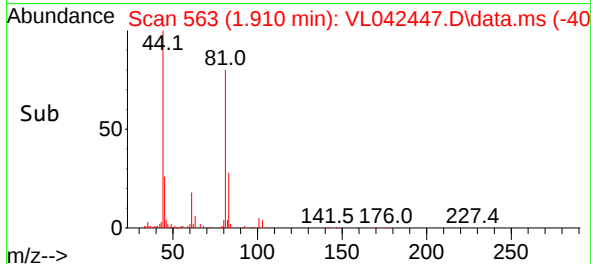
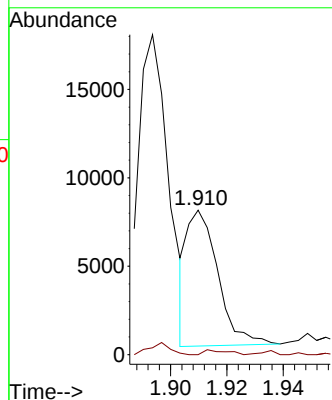
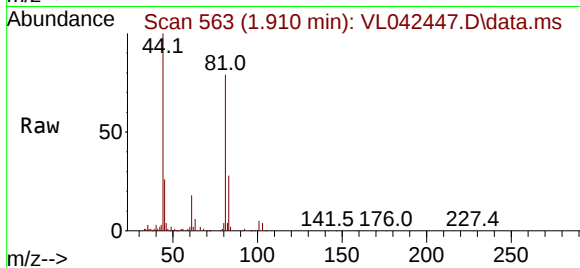
EBR-SC-SS-DUP01-20250421

Tgt Ion: 45 Resp: 5886

Ion Ratio Lower Upper

45 100

58 0.0 34.5 51.7#



#20

Methylene Chloride

Concen: 0.513 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.010 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Tgt Ion: 84 Resp: 3817

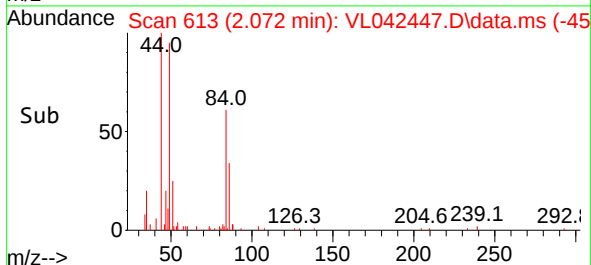
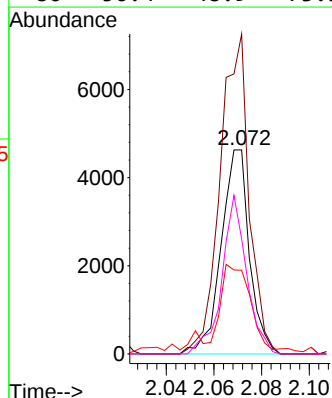
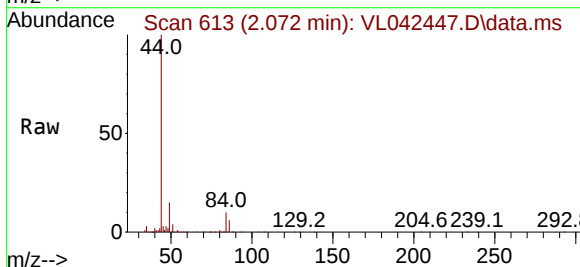
Ion Ratio Lower Upper

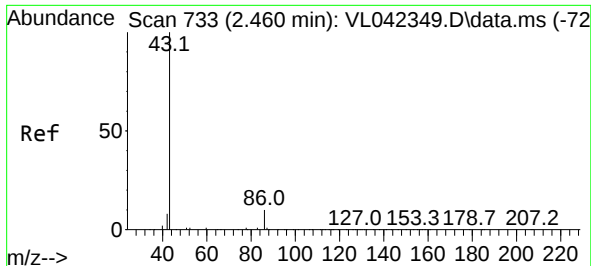
84 100

49 156.8 111.6 167.4

51 41.7 35.1 52.7

86 56.4 48.9 73.3

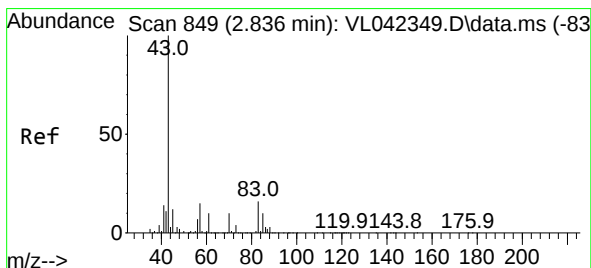
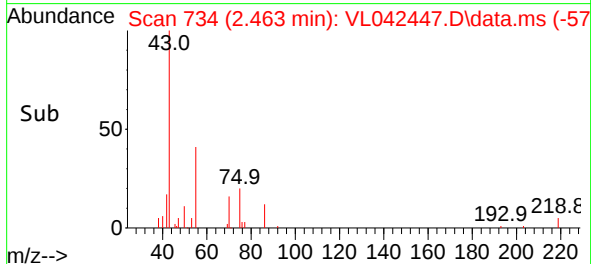
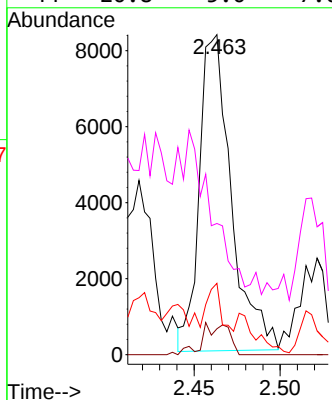
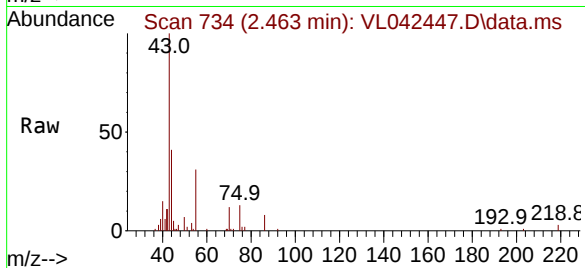




#23
 Vinyl Acetate
 Concen: 1.402 ppbv
 RT: 2.463 min Scan# 733
 Delta R.T. 0.003 min
 Lab File: VL042447.D
 Acq: 29 Apr 2025 15:24

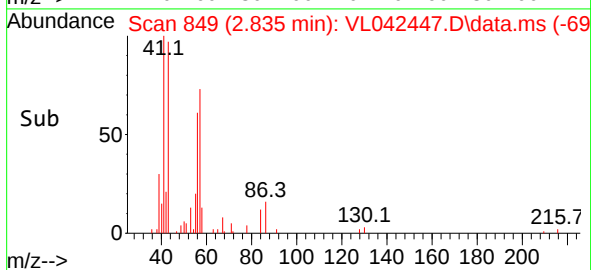
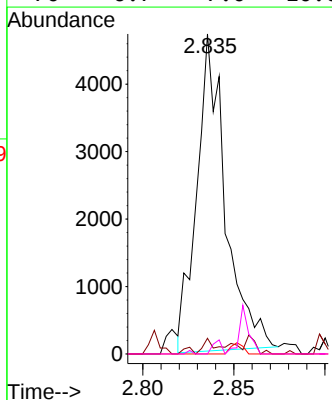
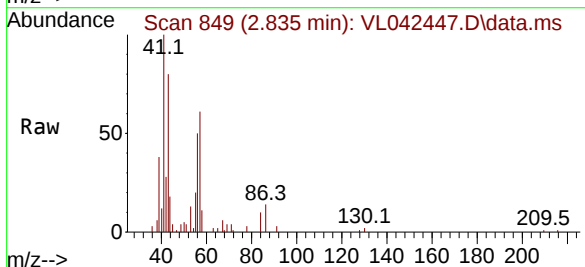
Instrument : MSVOA_1
 ClientSampleId : EBR-SC-SS-DUP01-20250421

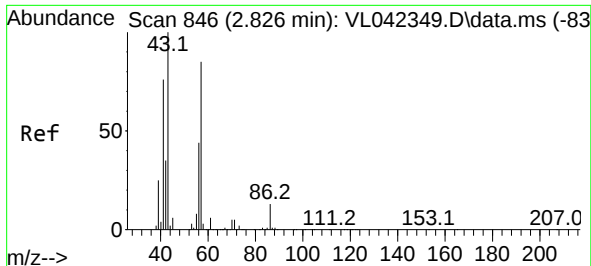
Tgt Ion: 43	Resp: 10774
Ion Ratio	Lower Upper
43 100	
86 8.3	6.5 9.7
42 20.1	7.8 11.8#
44 20.8	5.0 7.6#



#25
 Ethyl Acetate
 Concen: 0.110 ppbv
 RT: 2.835 min Scan# 849
 Delta R.T. -0.000 min
 Lab File: VL042447.D
 Acq: 29 Apr 2025 15:24

Tgt	Ion: 43	Resp:	5145
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.0	7.3	10.9#
70	6.7	7.0	10.6#

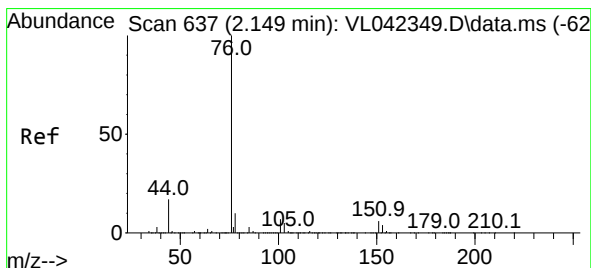
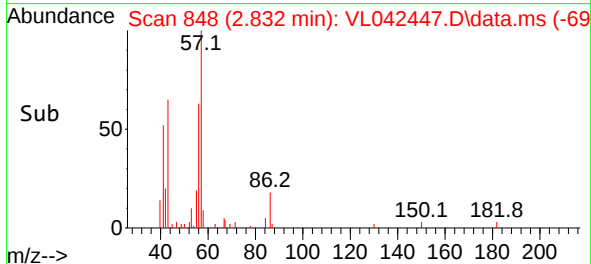
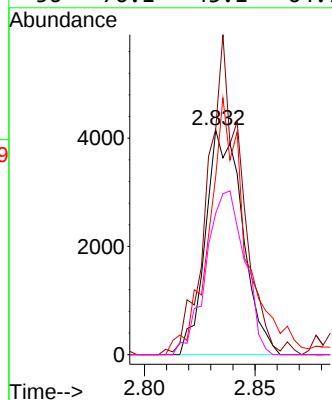
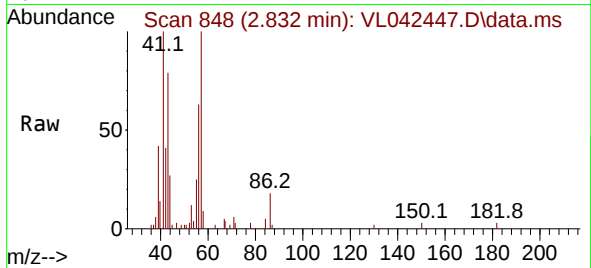




#26
Hexane
Concen: 0.255 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

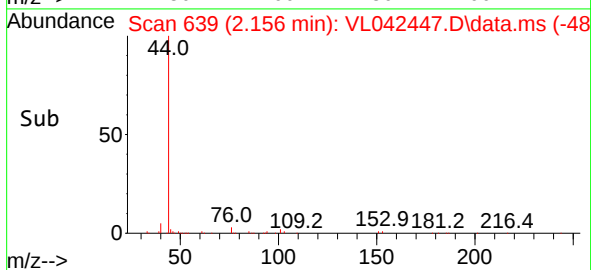
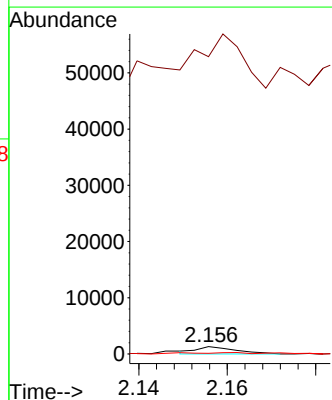
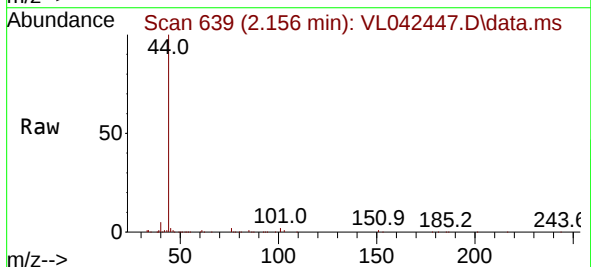
Instrument :
MSVOA_L
ClientSampleId :
EBR-SC-SS-DUP01-20250421

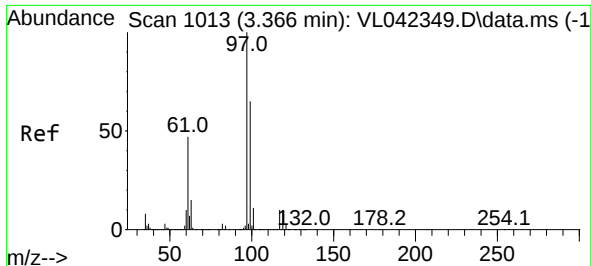
Tgt Ion: 57 Resp: 4823
Ion Ratio Lower Upper
57 100
41 129.6 77.9 116.9#
43 116.2 208.4 312.6#
56 76.1 43.1 64.7#



#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.006 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 76 Resp: 801
Ion Ratio Lower Upper
76 100
44 17463.3 15.5 23.3#
78 48.1 9.3 13.9#

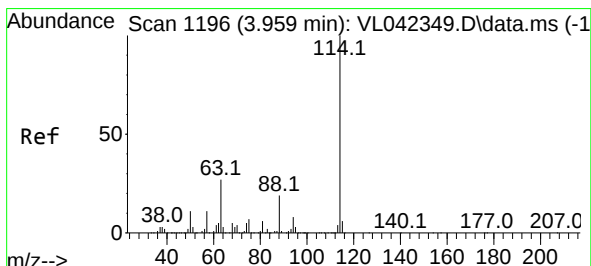
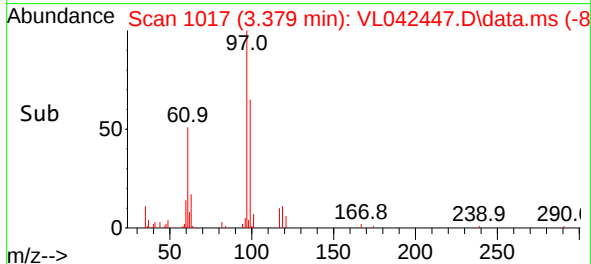
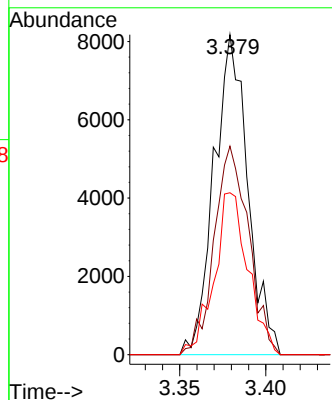
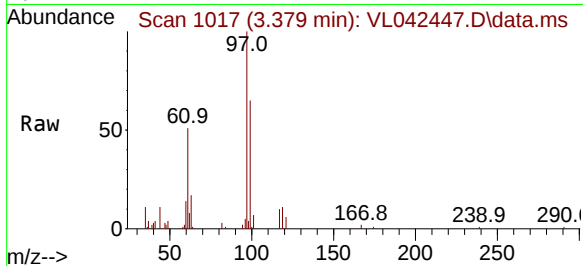




#32
 1,1,1-Trichloroethane
 Concen: 0.369 ppbv
 RT: 3.379 min Scan# 110
 Delta R.T. 0.013 min
 Lab File: VL042447.D
 Acq: 29 Apr 2025 15:24

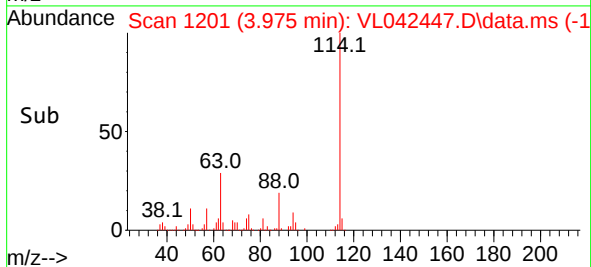
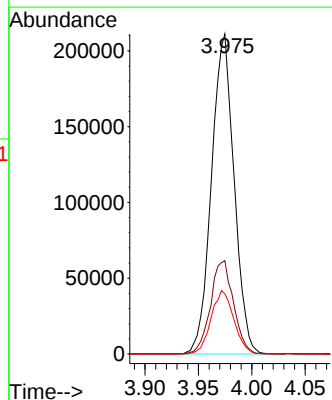
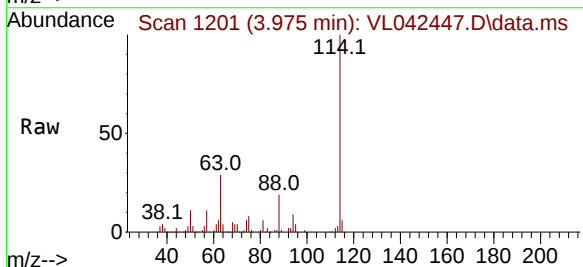
Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-SC-SS-DUP01-20250421

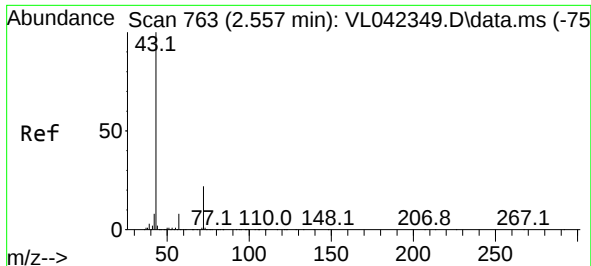
Tgt Ion: 97	Resp: 11120
Ion Ratio	Lower Upper
97 100	
99 66.5	51.0 76.4
61 50.8	38.8 58.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.975 min Scan# 1201
 Delta R.T. 0.016 min
 Lab File: VL042447.D
 Acq: 29 Apr 2025 15:24

Tgt Ion:114	Resp:	311045	
Ion	Ratio	Lower	Upper
114	100		
63	29.7	21.8	32.6
88	19.9	15.5	23.3

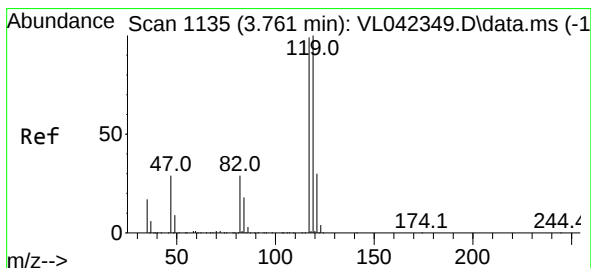
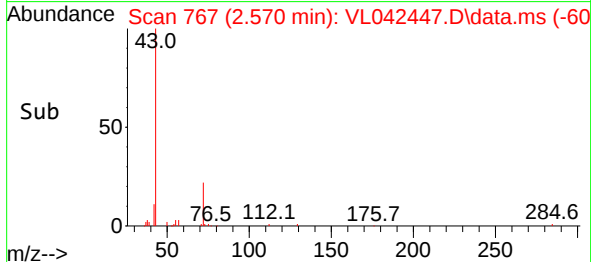
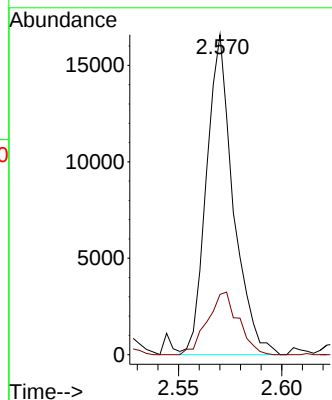
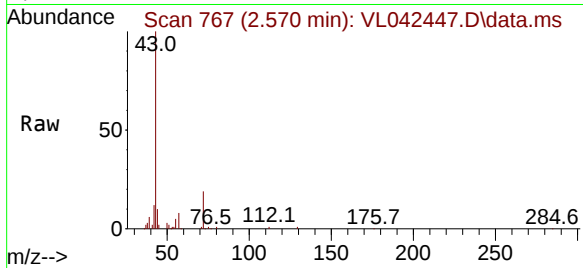




#34
2-Butanone
Concen: 0.608 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

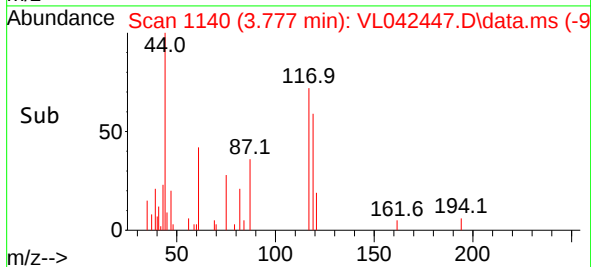
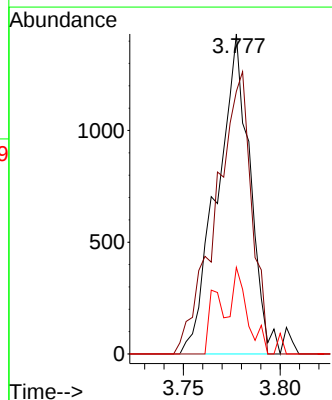
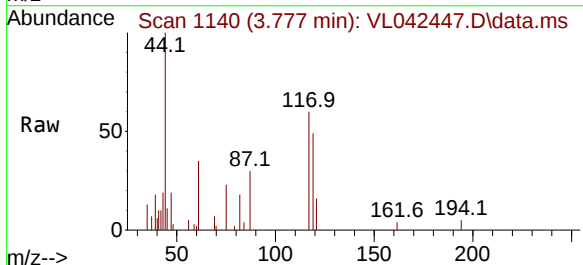
Instrument :
MSVOA_L
ClientSampleId :
EBR-SC-SS-DUP01-20250421

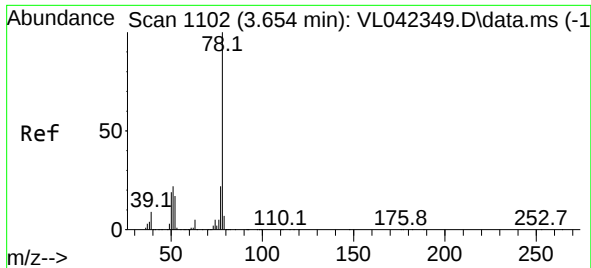
Tgt Ion: 43 Resp: 14964
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 3.777 min Scan# 1140
Delta R.T. 0.016 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 117 Resp: 1680
Ion Ratio Lower Upper
117 100
119 82.1 80.5 120.7
121 27.0 24.2 36.2





#36

Benzene

Concen: 0.054 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Instrument :

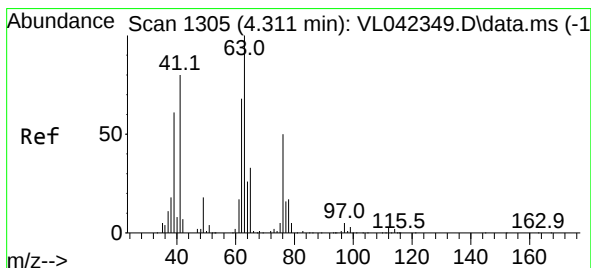
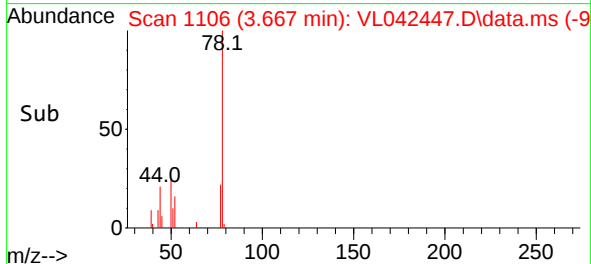
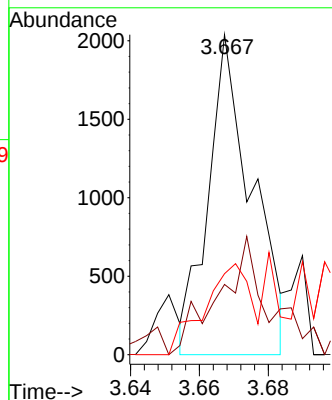
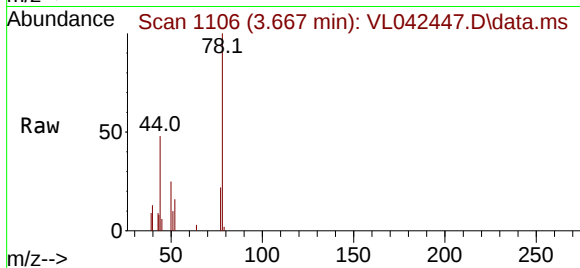
MSVOA_L

ClientSampleId :

EBR-SC-SS-DUP01-20250421

Tgt Ion: 78 Resp: 1799

Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.4	26.0
50	16.8	15.5	23.3



#39

1,2-Dichloropropane

Concen: 7.373 ppbv

RT: 3.975 min Scan# 1201

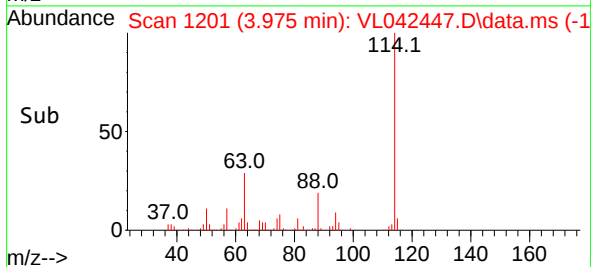
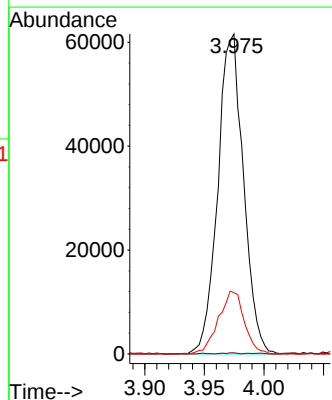
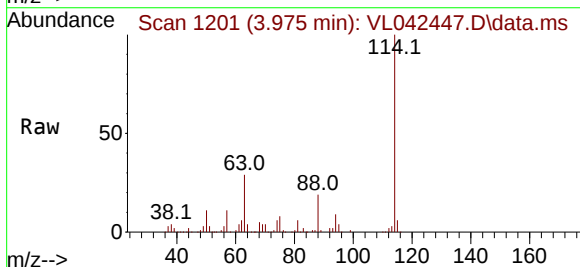
Delta R.T. -0.337 min

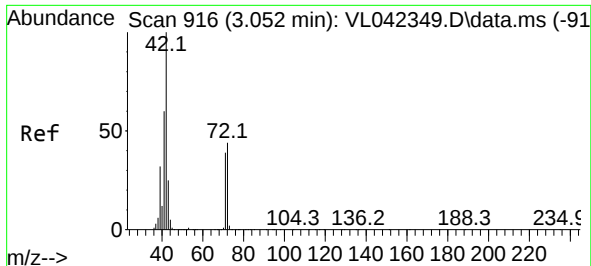
Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Tgt Ion: 63 Resp: 92184

Ion	Ratio	Lower	Upper
63	100		
41	0.3	64.2	96.2#
62	19.2	54.3	81.5#





#41

Tetrahydrofuran

Concen: 0.208 ppbv

RT: 3.078 min Scan# 916

Delta R.T. 0.026 min

Lab File: VL042447.D

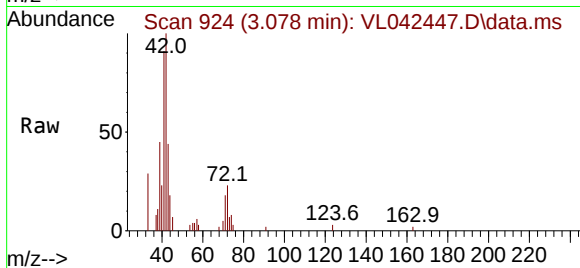
Acq: 29 Apr 2025 15:24

Instrument :

MSVOA_L

ClientSampleId :

EBR-SC-SS-DUP01-20250421



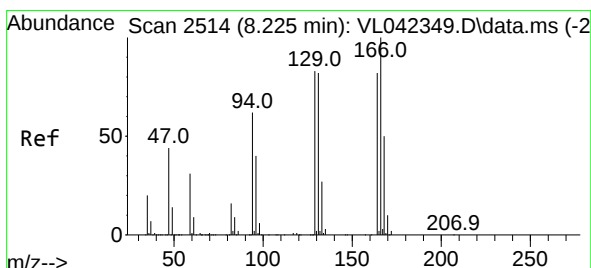
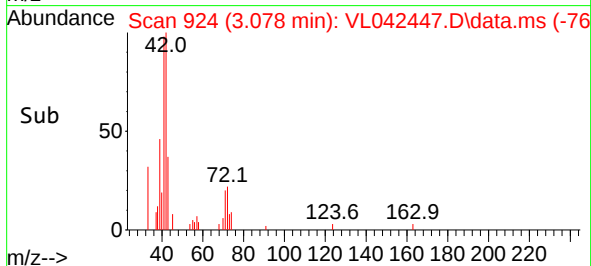
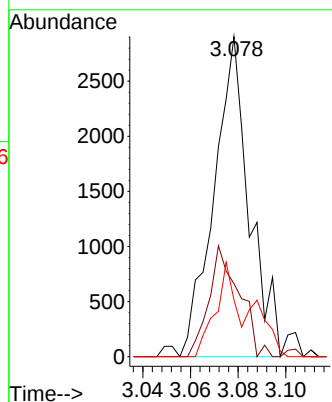
Tgt Ion: 42 Resp: 2988

Ion Ratio Lower Upper

42 100

72 29.9 32.3 48.5#

71 27.1 31.4 47.2#



#52

Tetrachloroethene

Concen: 0.409 ppbv

RT: 8.234 min Scan# 2517

Delta R.T. 0.010 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Tgt Ion: 164 Resp: 5308

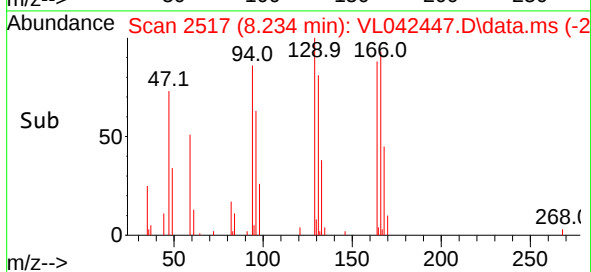
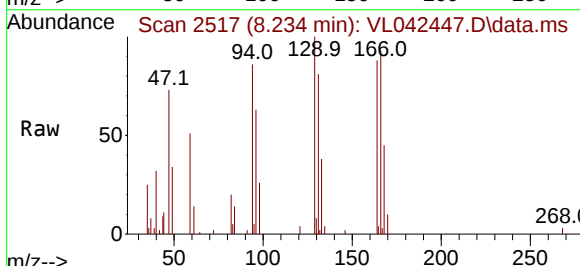
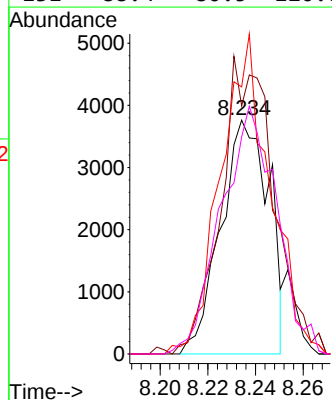
Ion Ratio Lower Upper

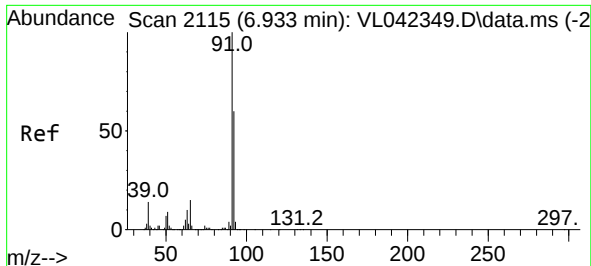
164 100

166 102.2 98.2 147.2

129 111.1 81.8 122.8

131 88.4 80.5 120.7

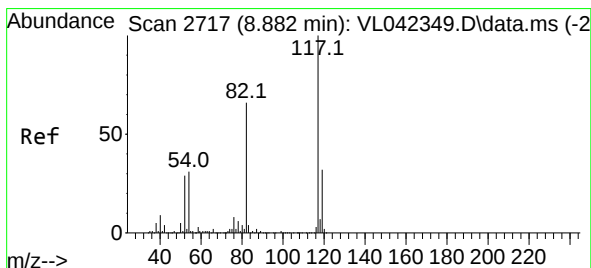
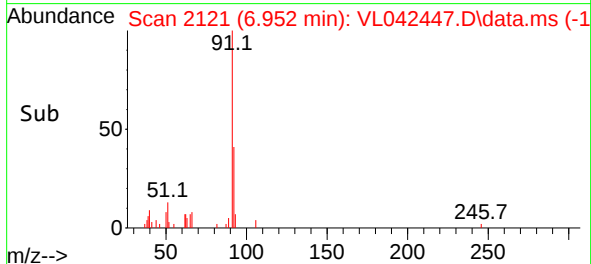
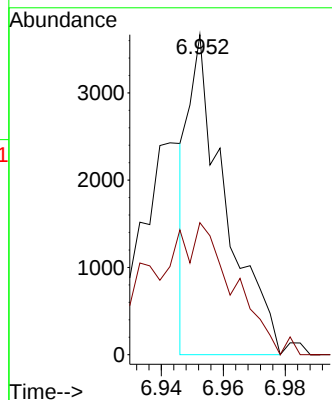
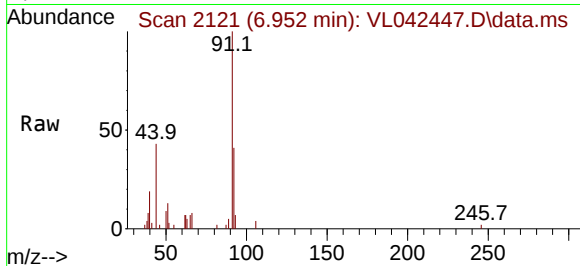




#53
Toluene
Concen: 0.075 ppbv
RT: 6.952 min Scan# 2115
Delta R.T. 0.019 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

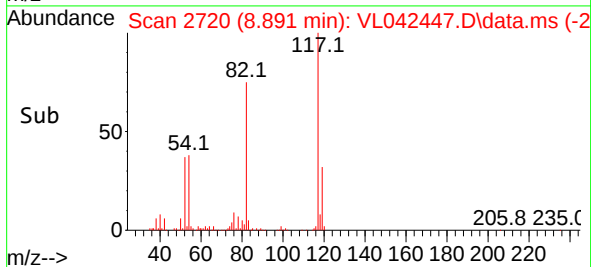
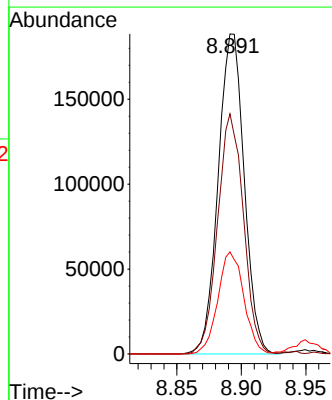
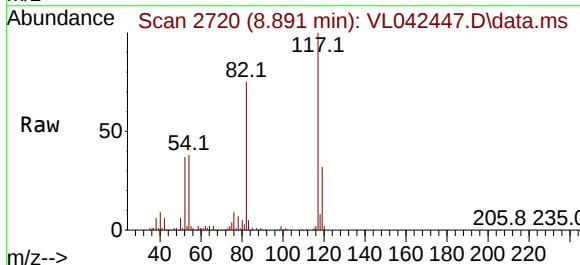
Instrument :
MSVOA_L
ClientSampleId :
EBR-SC-SS-DUP01-20250421

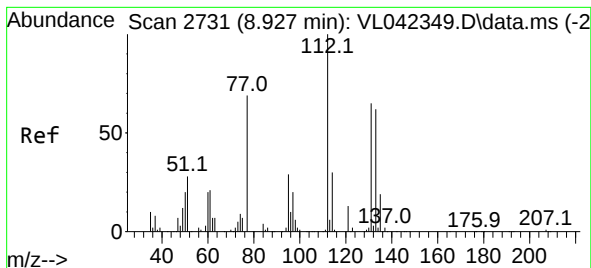
Tgt Ion: 91 Resp: 3018
Ion Ratio Lower Upper
91 100
92 98.1 48.2 72.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.010 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 117 Resp: 264660
Ion Ratio Lower Upper
117 100
82 75.0 57.8 86.6
119 31.8 25.2 37.8





#56

1,1,1,2-Tetrachloroethane

Concen: 0.059 ppbv

RT: 8.949 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Instrument :

MSVOA_L

ClientSampleId :

EBR-SC-SS-DUP01-20250421

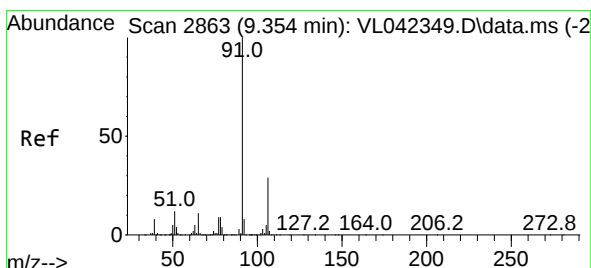
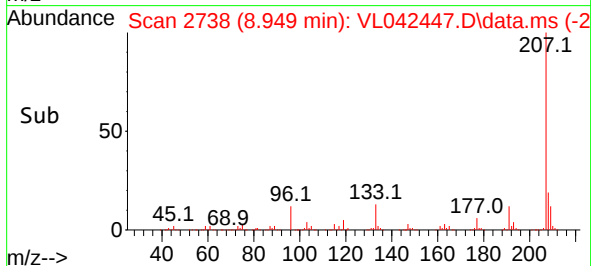
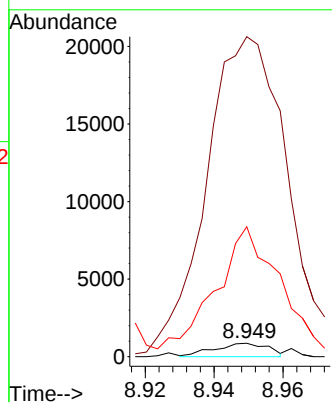
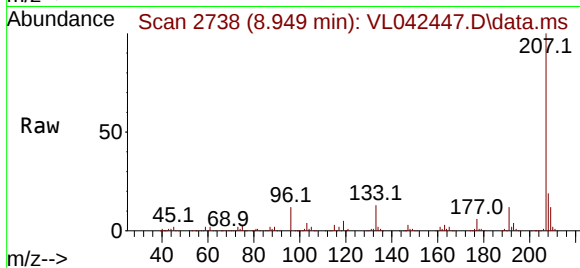
Tgt Ion:131 Resp: 942

Ion Ratio Lower Upper

131 100

133 3594.7 78.3 117.5#

119 1212.7 48.7 73.1#



#58

Ethyl Benzene

Concen: 0.030 ppbv

RT: 9.367 min Scan# 2867

Delta R.T. 0.013 min

Lab File: VL042447.D

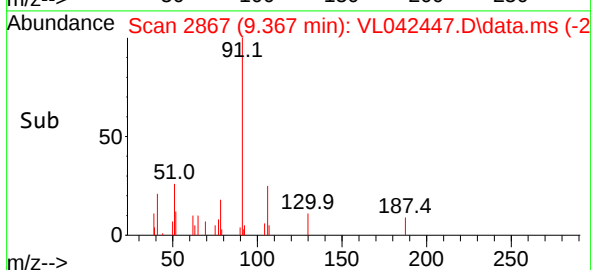
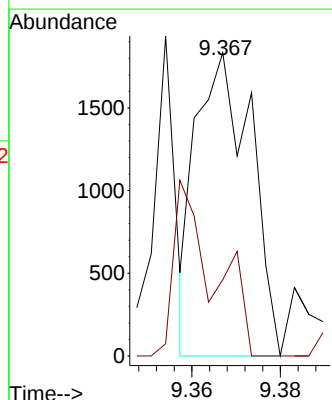
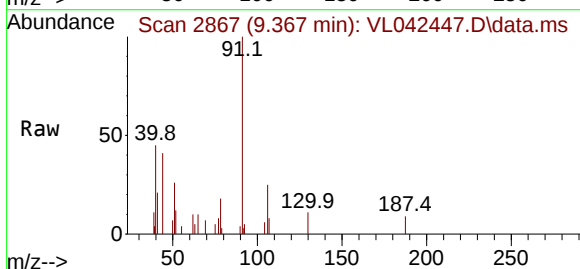
Acq: 29 Apr 2025 15:24

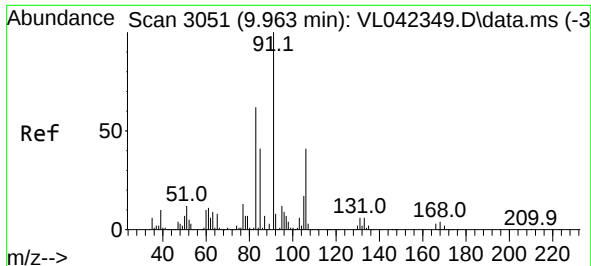
Tgt Ion: 91 Resp: 1587

Ion Ratio Lower Upper

91 100

106 25.2 23.0 34.4

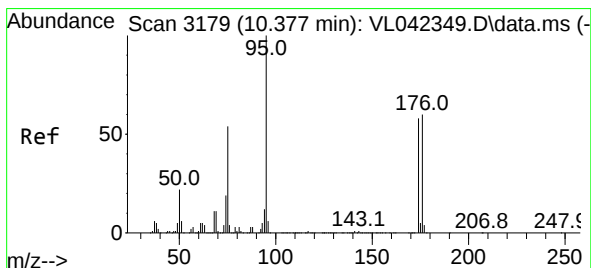
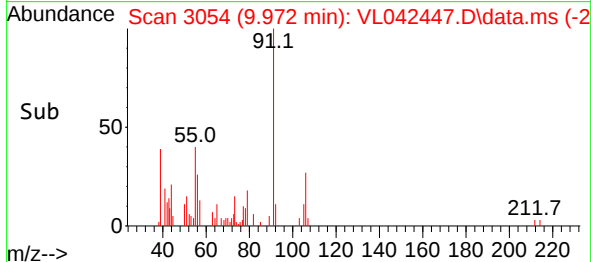
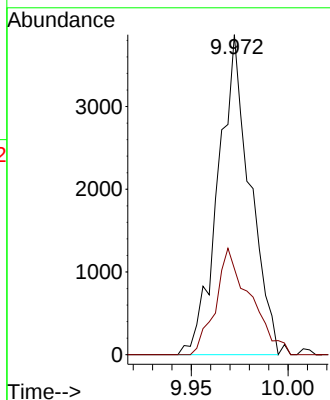
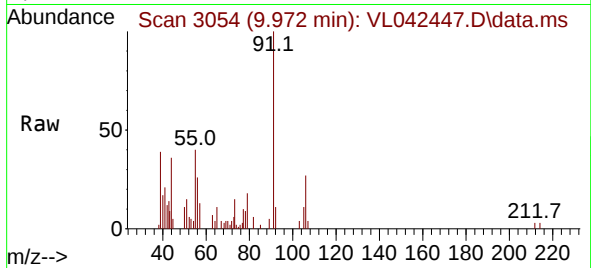




#60
o-Xylene
Concen: 0.104 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

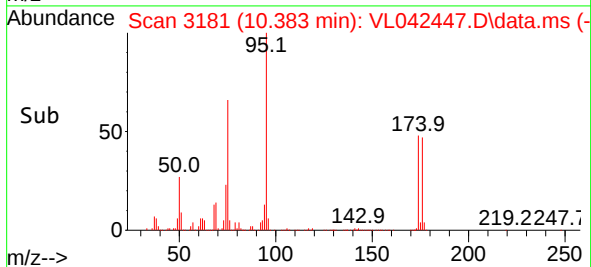
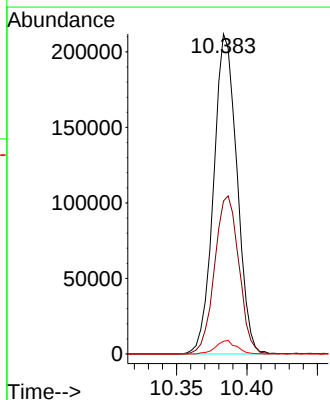
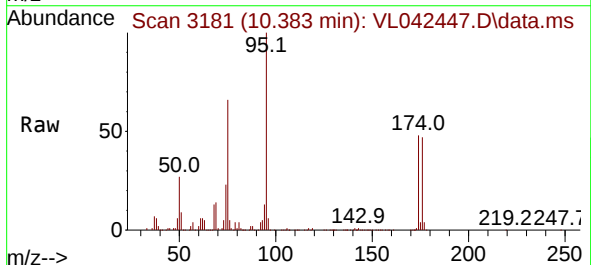
Instrument :
MSVOA_L
ClientSampleId :
EBR-SC-SS-DUP01-20250421

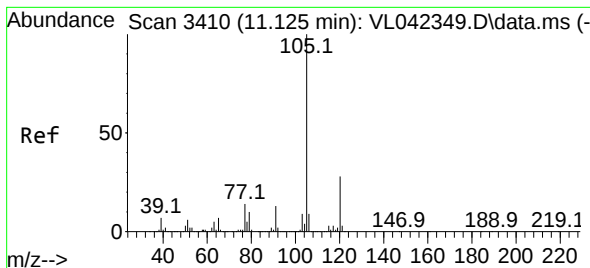
Tgt Ion: 91 Resp: 4440
Ion Ratio Lower Upper
91 100
106 36.2 21.1 63.4



#68
1-Bromo-4-Fluorobenzene
Concen: 11.229 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.006 min
Lab File: VL042447.D
Acq: 29 Apr 2025 15:24

Tgt Ion: 95 Resp: 244219
Ion Ratio Lower Upper
95 100
174 51.7 48.5 72.7
175 3.7 3.7 5.5





#72

4-Ethyltoluene

Concen: 0.032 ppbv

RT: 11.131 min Scan# 3410

Delta R.T. 0.006 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Instrument :

MSVOA_L

ClientSampleId :

EBR-SC-SS-DUP01-20250421

Tgt Ion:105 Resp: 1668

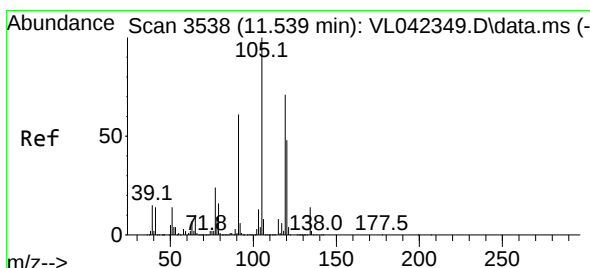
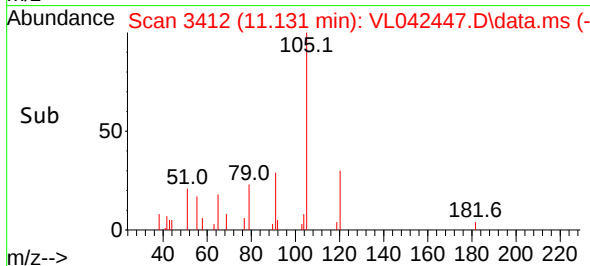
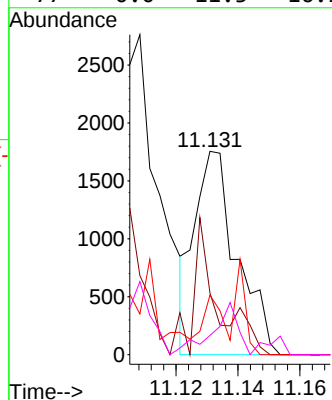
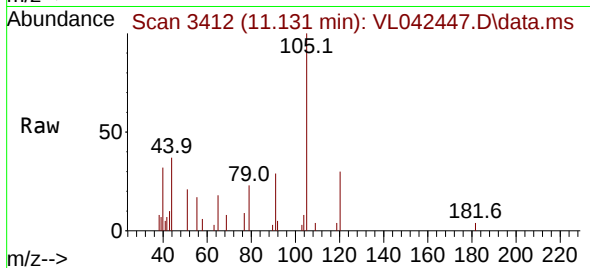
Ion Ratio Lower Upper

105 100

120 0.0 23.2 34.8#

91 26.5 10.4 15.6#

77 0.0 11.3 16.9#



#74

1,2,4-Trimethylbenzene

Concen: 0.093 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL042447.D

Acq: 29 Apr 2025 15:24

Tgt Ion:105 Resp: 4998

Ion Ratio Lower Upper

105 100

120 51.7 38.1 57.1

91 14.4 48.8 73.2#

77 17.5 19.0 28.4#

