

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042479.D
 Acq On : 05 May 2025 16:59
 Operator : SY/MD
 Sample : Q1927-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P03-SC-IA01-20250428

Quant Time: May 06 01:43:44 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)

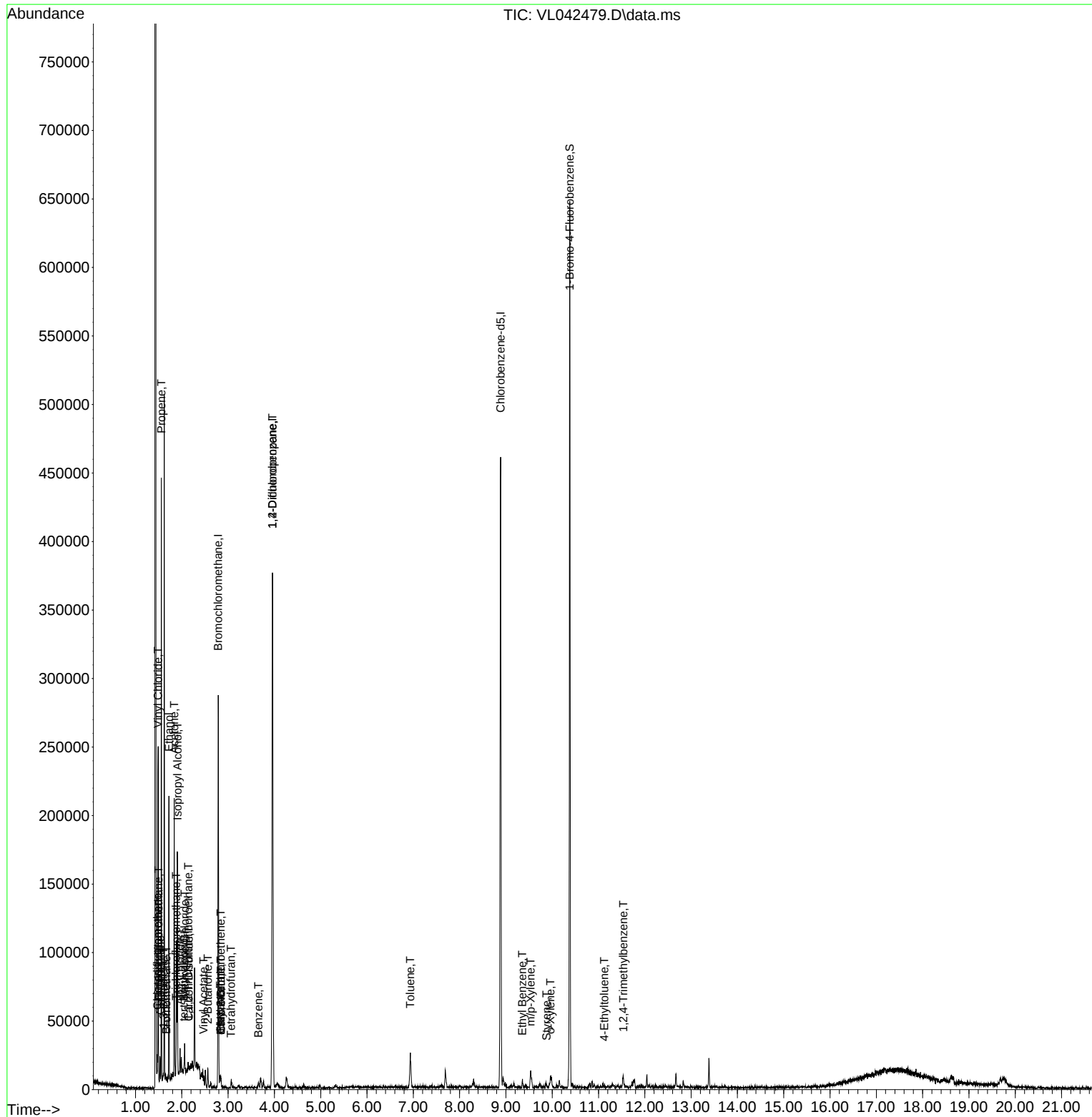
Internal Standards						
1) Bromochloromethane	2.787	49	68950	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	192895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161884	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	156074	10.399	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6203	0.544	ppbv	99
3) Chlorodifluoromethane	1.476	51	8531	0.707	ppbv #	90
4) Chloromethane	1.531	50	2764	0.580	ppbv #	81
5) Vinyl Chloride	1.486	62	199	0.041	ppbv #	44
6) Bromomethane	1.670	94	95	0.042	ppbv #	6
9) Propene	1.557	41	48148	12.202	ppbv	98
11) Trichlorofluoromethane	1.877	101	3702	0.352	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.140	101	864	0.103	ppbv #	66
13) Ethanol	1.722	45	69923	87.324	ppbv	98
15) Acetone	1.835	43	83945	6.669	ppbv	94
16) 1,3-Butadiene	1.602	39	1173	0.211	ppbv #	15
17) tert-Butyl alcohol	2.046	59	1051	0.095	ppbv #	69
19) Isopropyl Alcohol	1.907	45	12559	1.803	ppbv #	94
20) Methylene Chloride	2.062	84	2323	0.614	ppbv	91
21) Allyl Chloride	1.965	41	2461	0.304	ppbv #	48
23) Vinyl Acetate	2.467	43	914	0.076	ppbv #	1
25) Ethyl Acetate	2.842	43	3810	0.189	ppbv #	78
26) Hexane	2.829	57	602	0.069	ppbv #	1
27) Carbon Disulfide	2.149	76	309	0.030	ppbv #	1
29) Chloroform	2.845	83	615	0.037	ppbv #	61
31) cis-1,2-Dichloroethene	2.842	61	330	0.032	ppbv #	25
34) 2-Butanone	2.564	43	8223	0.589	ppbv	92
36) Benzene	3.654	78	1690	0.093	ppbv #	67
39) 1,2-Dichloropropane	3.959	63	55014	8.073	ppbv #	24
41) Tetrahydrofuran	3.062	42	970	0.146	ppbv #	77
53) Toluene	6.936	91	15313	0.795	ppbv	93
58) Ethyl Benzene	9.354	91	2584	0.096	ppbv	90
59) m/p-Xylene	9.535	91	3801	0.168	ppbv #	35
60) o-Xylene	9.963	91	2046	0.090	ppbv	85
61) Styrene	9.878	104	281	0.033	ppbv #	44
72) 4-Ethyltoluene	11.125	105	870	0.032	ppbv #	65
74) 1,2,4-Trimethylbenzene	11.536	105	1425	0.050	ppbv #	58

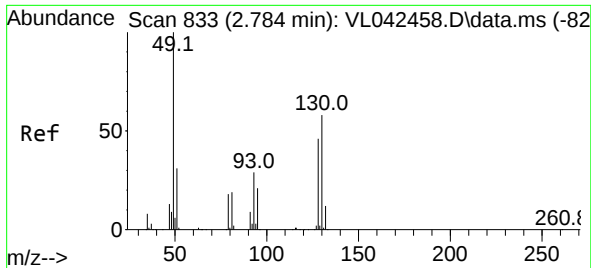
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EBR-P03-SC-IA01-20250428

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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

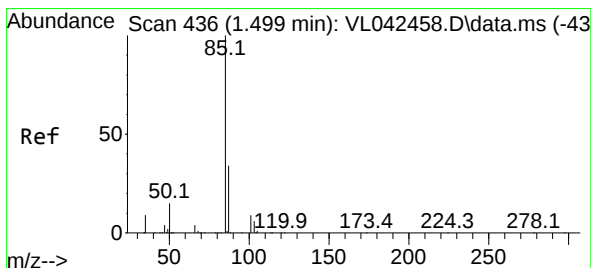
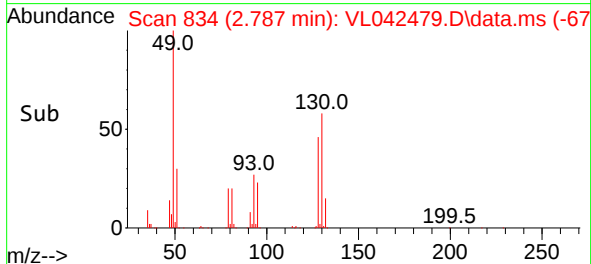
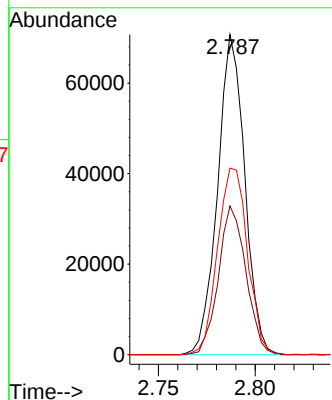
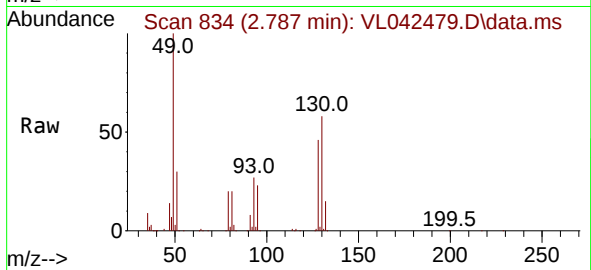




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

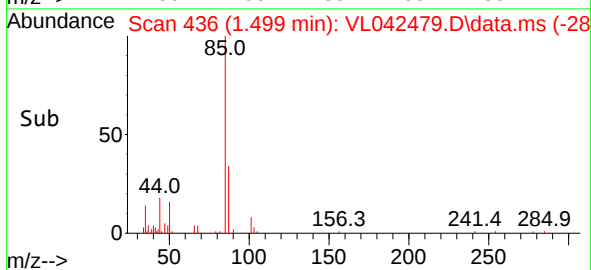
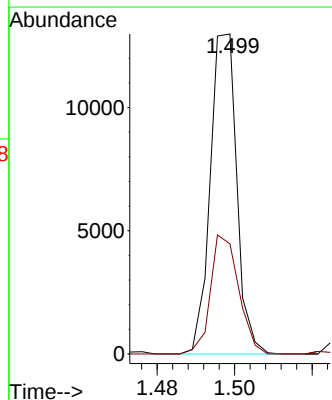
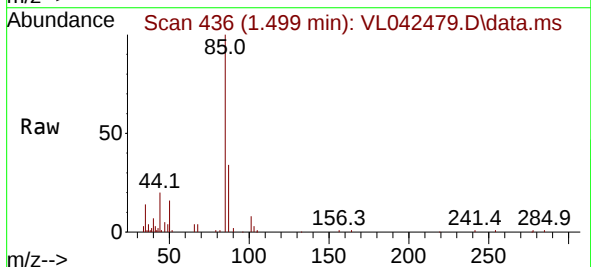
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

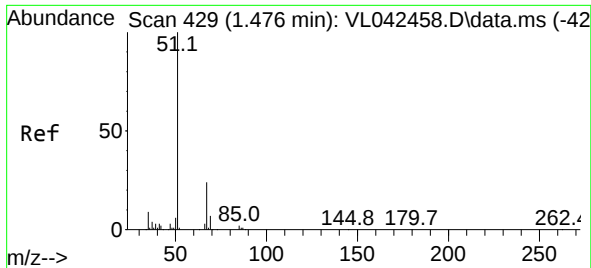
Tgt Ion: 49 Resp: 68950
Ion Ratio Lower Upper
49 100
128 47.1 23.3 69.9
130 64.3 29.5 88.6



#2
Dichlorodifluoromethane
Concen: 0.544 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 85 Resp: 6203
Ion Ratio Lower Upper
85 100
87 34.4 26.9 40.3

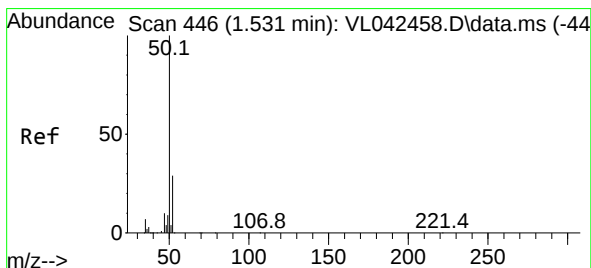
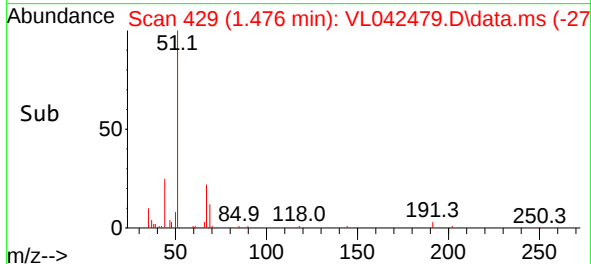
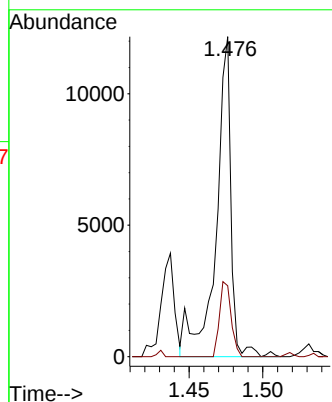
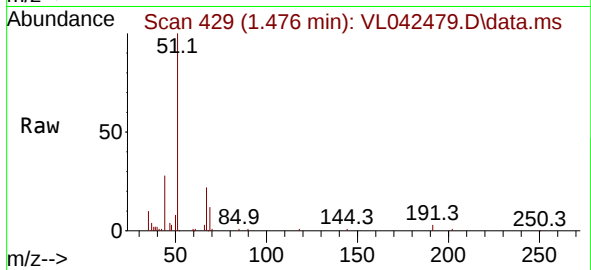




#3
Chlorodifluoromethane
Concen: 0.707 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

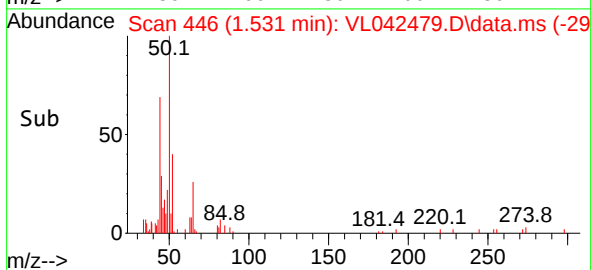
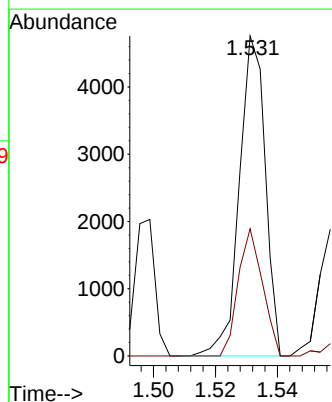
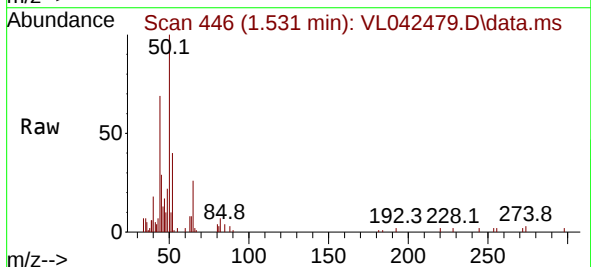
Instrument : MSVOA_1
ClientSampleId : EBR-P03-SC-IA01-20250428

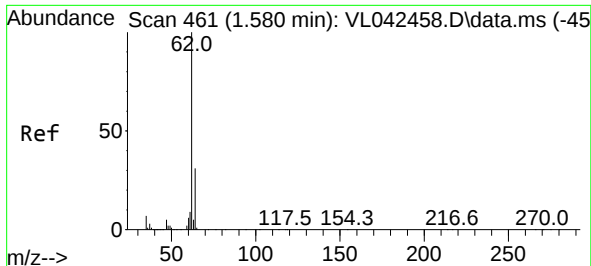
Tgt Ion: 51 Resp: 8531
Ion Ratio Lower Upper
51 100
67 18.3 18.4 27.6#



#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 50 Resp: 2764
Ion Ratio Lower Upper
50 100
52 39.7 23.5 35.3#

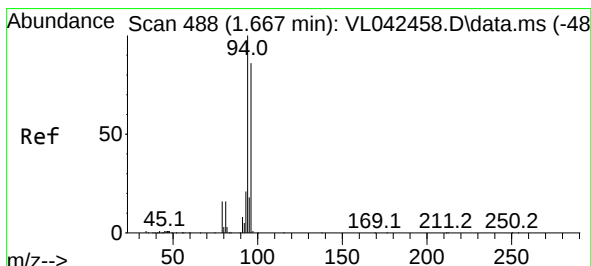
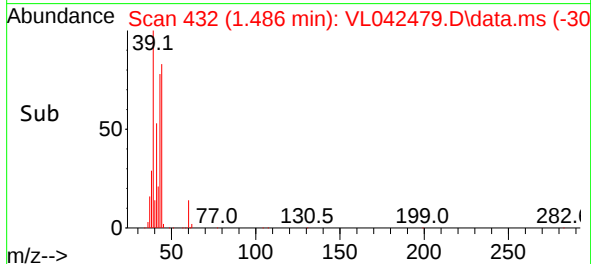
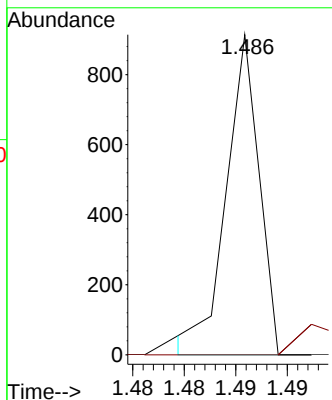
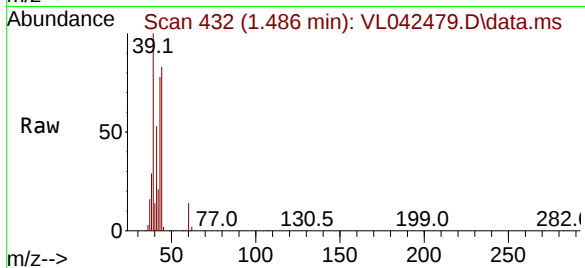




#5
Vinyl Chloride
Concen: 0.041 ppbv
RT: 1.486 min Scan# 41
Delta R.T. -0.094 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

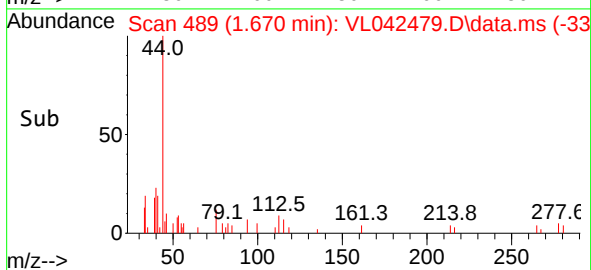
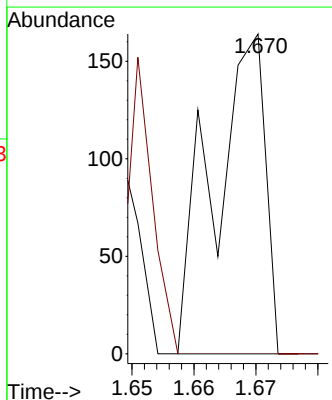
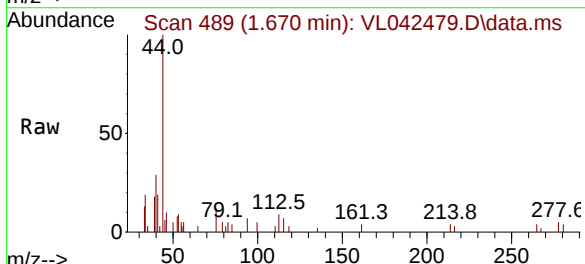
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

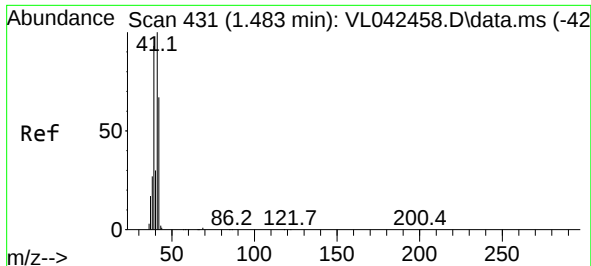
Tgt Ion: 62 Resp: 199
Ion Ratio Lower Upper
62 100
64 0.0 24.9 37.3#



#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 94 Resp: 95
Ion Ratio Lower Upper
94 100
96 0.0 68.8 103.2#





#9

Propene

Concen: 12.202 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

Instrument :

MSVOA_L

ClientSampleId :

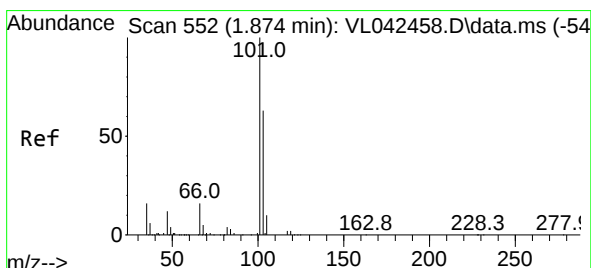
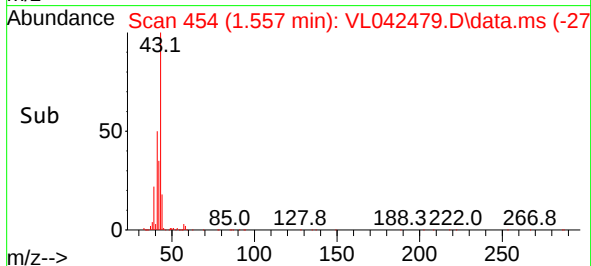
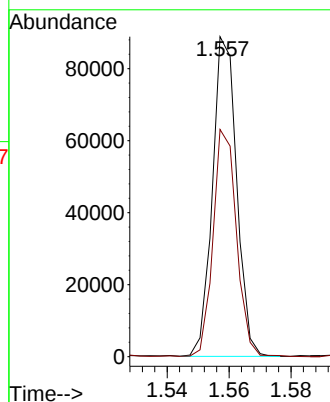
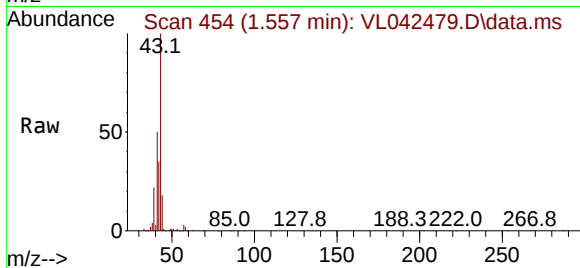
EBR-P03-SC-IA01-20250428

Tgt Ion: 41 Resp: 48148

Ion Ratio Lower Upper

41 100

42 69.3 54.3 81.5



#11

Trichlorofluoromethane

Concen: 0.352 ppbv

RT: 1.877 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042479.D

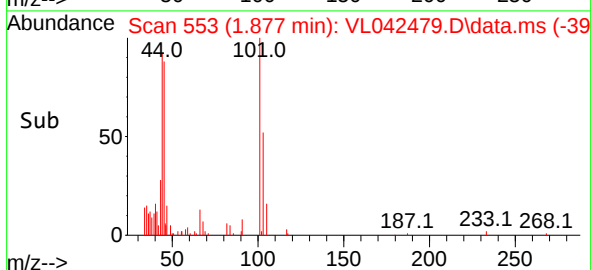
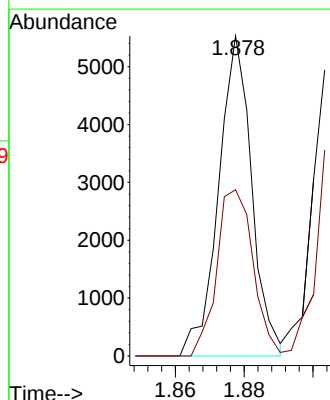
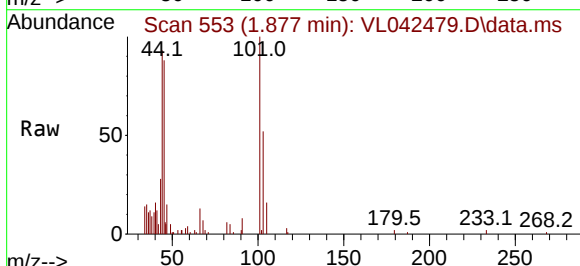
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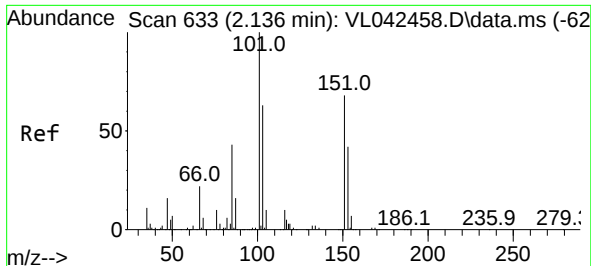
Tgt Ion: 101 Resp: 3702

Ion Ratio Lower Upper

101 100

103 52.0 50.6 76.0

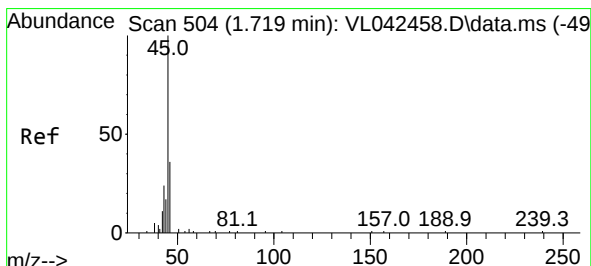
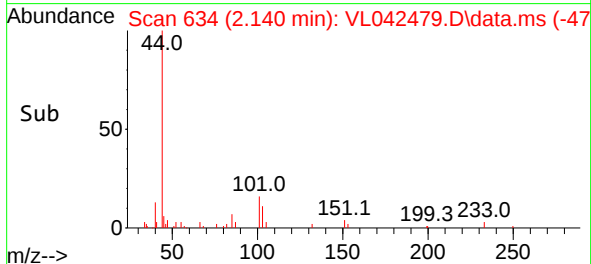
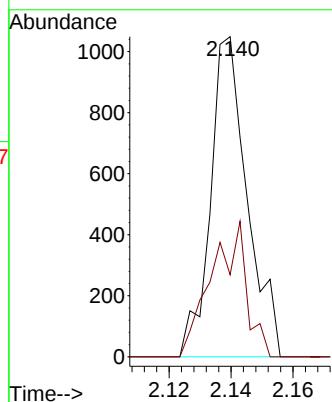
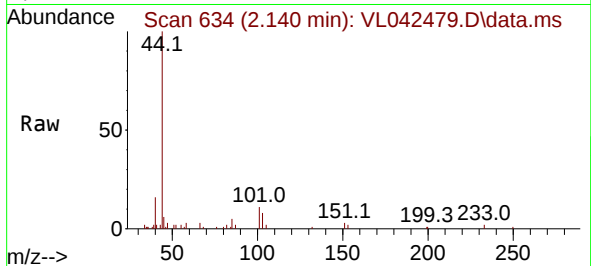




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.103 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

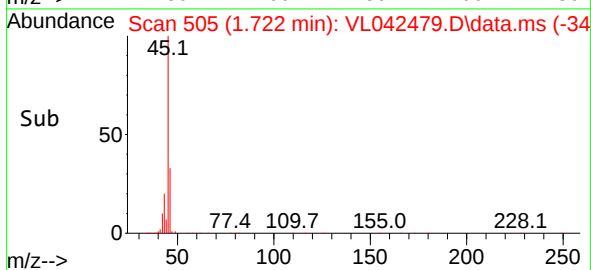
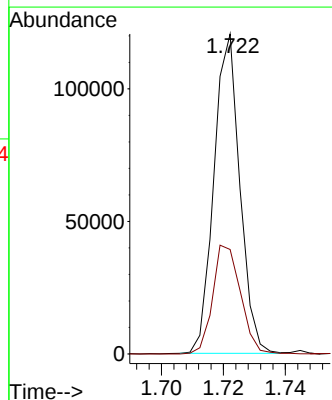
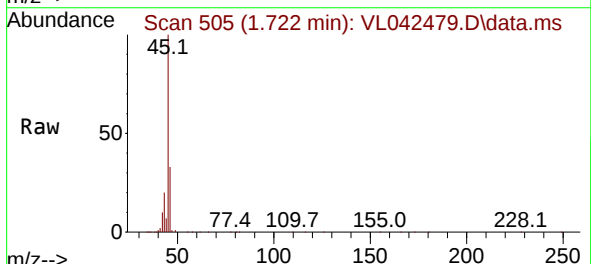
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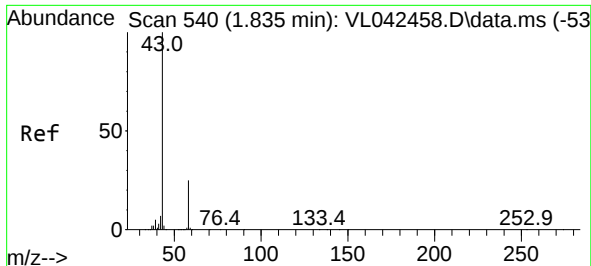
Tgt Ion:101 Resp: 864
Ion Ratio Lower Upper
101 100
151 40.5 54.6 82.0#



#13
Ethanol
Concen: 87.324 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 45 Resp: 69923
Ion Ratio Lower Upper
45 100
46 36.8 15.3 61.1

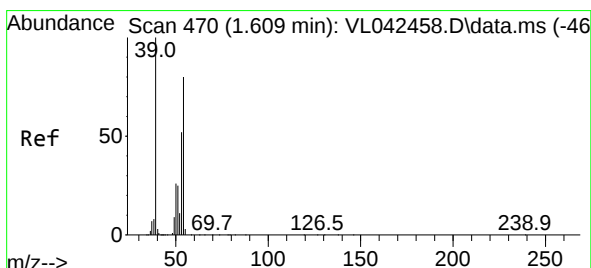
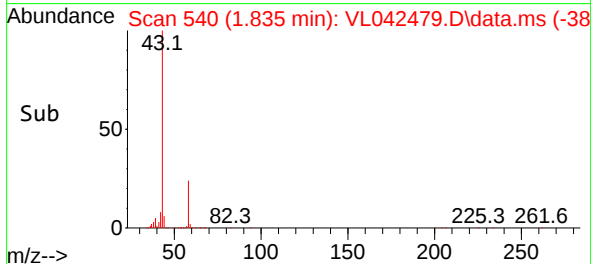
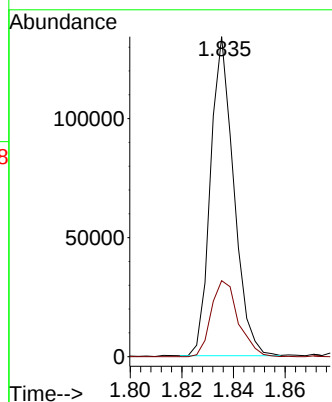
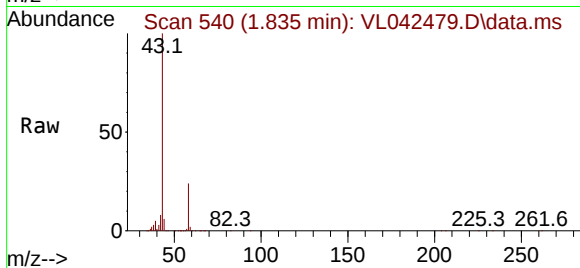




#15
Acetone
Concen: 6.669 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

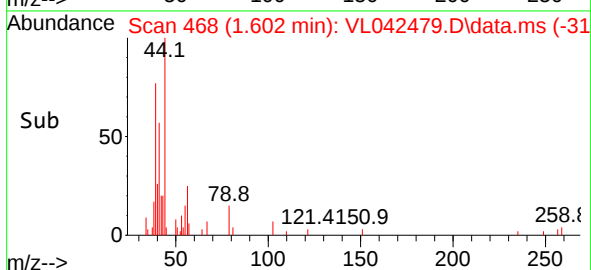
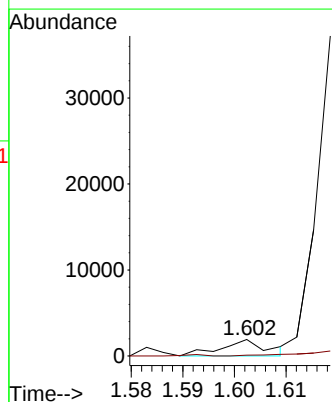
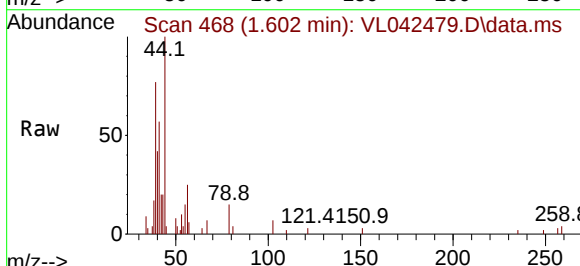
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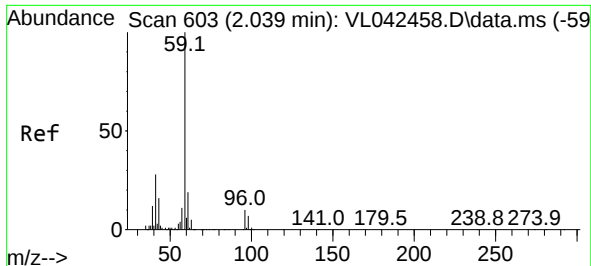
Tgt Ion: 43 Resp: 83945
Ion Ratio Lower Upper
43 100
58 27.7 19.8 29.8



#16
1,3-Butadiene
Concen: 0.211 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 39 Resp: 1173
Ion Ratio Lower Upper
39 100
54 0.0 55.2 82.8#





#17

tert-Butyl alcohol

Concen: 0.095 ppbv

RT: 2.046 min Scan# 603

Delta R.T. 0.007 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

Instrument :

MSVOA_L

ClientSampleId :

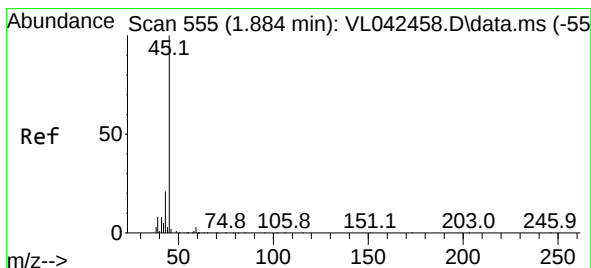
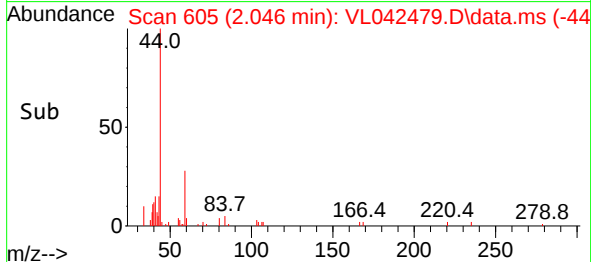
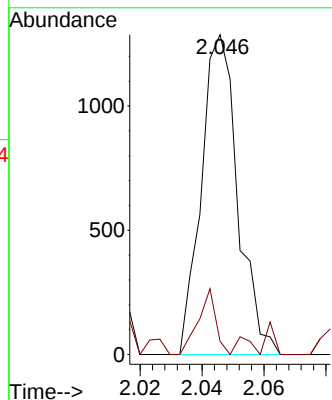
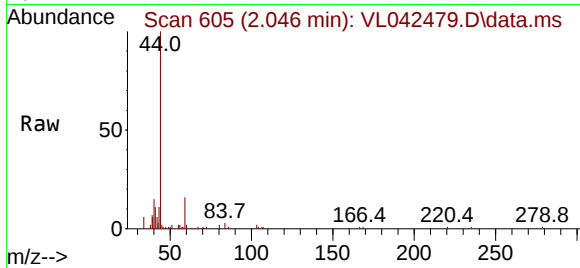
EBR-P03-SC-IA01-20250428

Tgt Ion: 59 Resp: 1051

Ion Ratio Lower Upper

59 100

57 22.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 1.803 ppbv

RT: 1.907 min Scan# 562

Delta R.T. 0.023 min

Lab File: VL042479.D

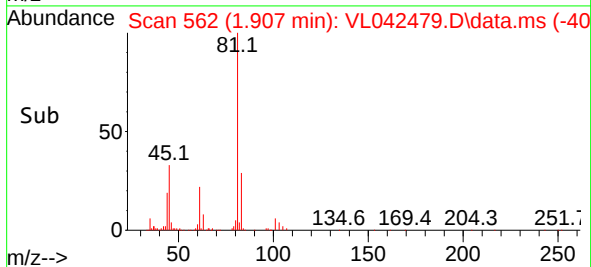
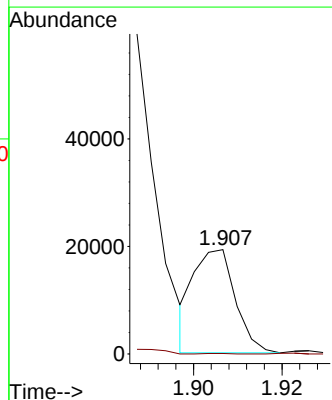
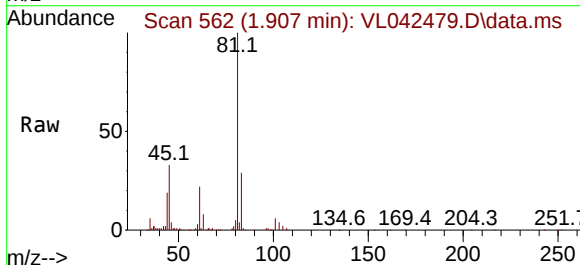
Acq: 05 May 2025 16:59

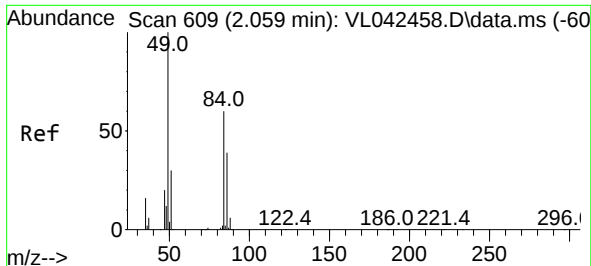
Tgt Ion: 45 Resp: 12559

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#

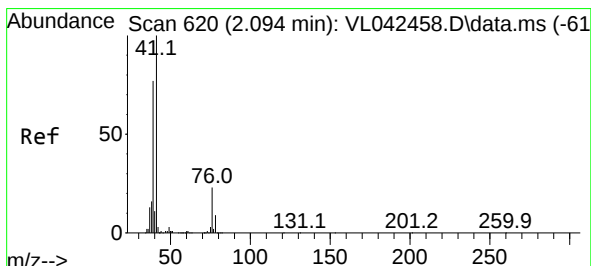
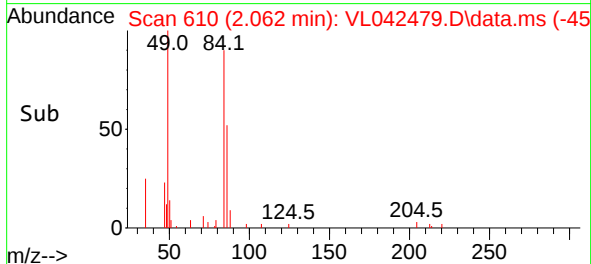
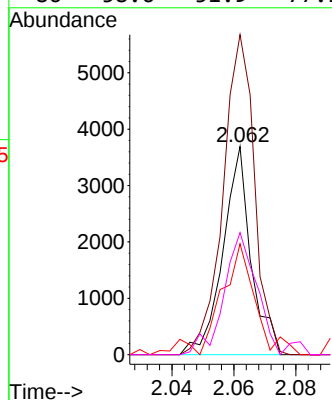
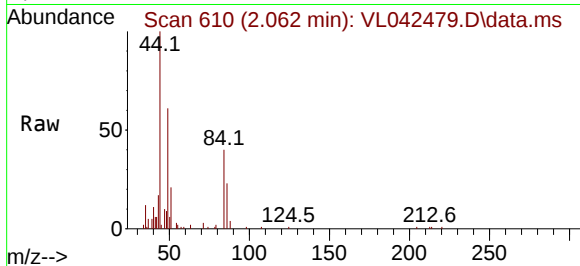




#20
Methylene Chloride
Concen: 0.614 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

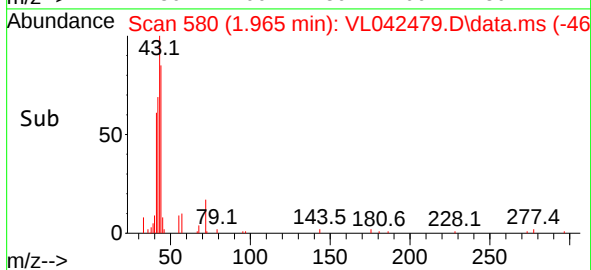
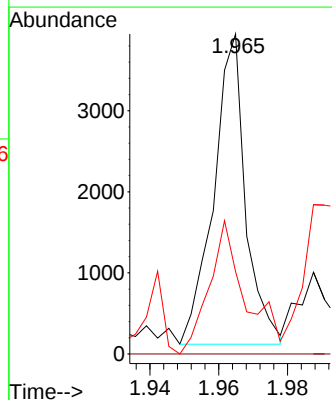
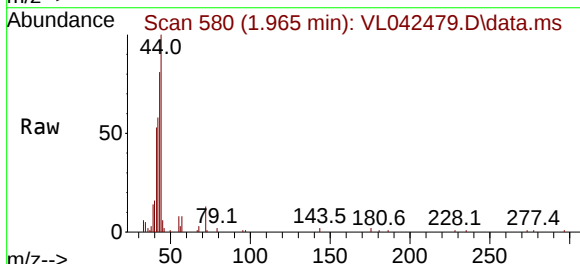
Instrument :
MSVOA_1
ClientSampleId :
EBR-P03-SC-IA01-20250428

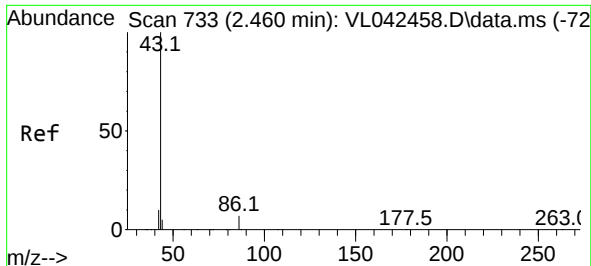
Tgt Ion: 84	Resp: 2323
Ion Ratio	Lower Upper
84 100	
49 153.7	133.9 200.9
51 45.9	41.0 61.6
86 58.6	51.9 77.9



#21
Allyl Chloride
Concen: 0.304 ppbv
RT: 1.965 min Scan# 580
Delta R.T. -0.129 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 41	Resp: 2461		
Ion Ratio	Lower	Upper	
41 100			
76 0.0	19.6	29.4#	
39 122.1	61.0	91.4#	

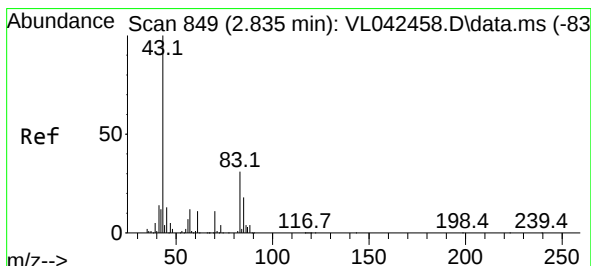
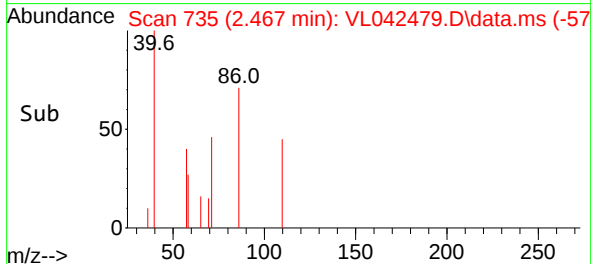
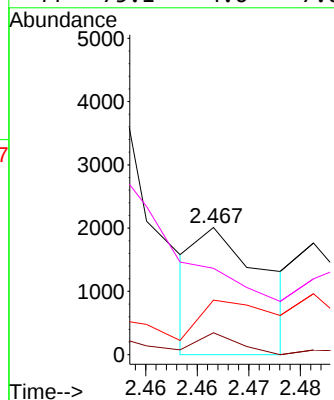
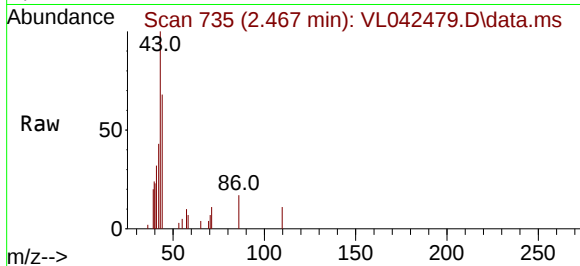




#23
 Vinyl Acetate
 Concen: 0.076 ppbv
 RT: 2.467 min Scan# 71
 Delta R.T. 0.007 min
 Lab File: VL042479.D
 Acq: 05 May 2025 16:59

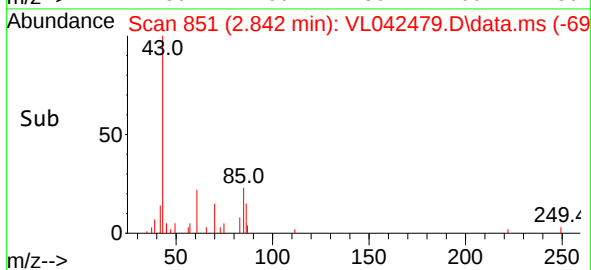
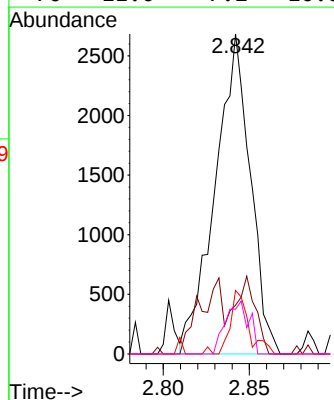
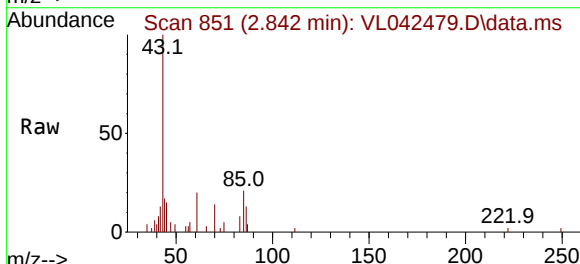
Instrument :
 MSVOA_1
 ClientSampleId :
 EBR-P03-SC-IA01-20250428

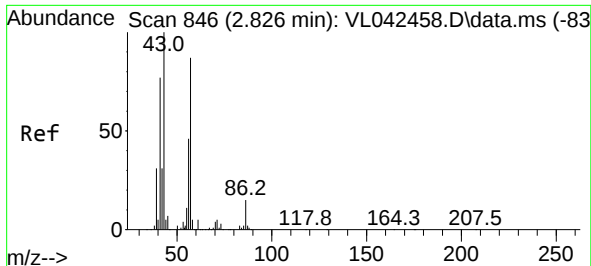
Tgt Ion: 43	Resp: 914
Ion Ratio	Lower Upper
43 100	
86 49.7	5.5 8.3#
42 91.8	8.3 12.5#
44 75.1	4.6 7.0#



#25
 Ethyl Acetate
 Concen: 0.189 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.007 min
 Lab File: VL042479.D
 Acq: 05 May 2025 16:59

Tgt	Ion: 43	Resp:	3810
Ion	Ratio	Lower	Upper
43	100		
45	30.0	7.8	11.6#
61	10.4	7.2	10.8
70	11.0	7.2	10.8#

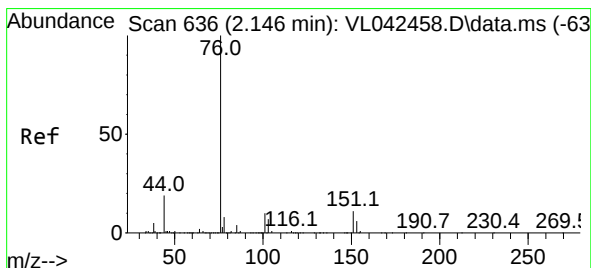
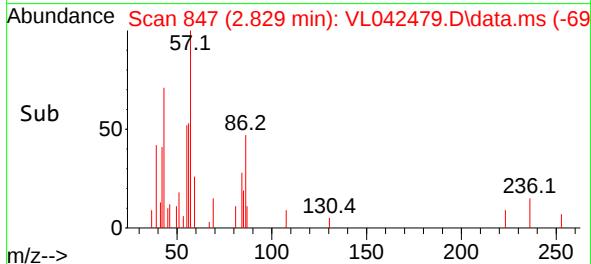
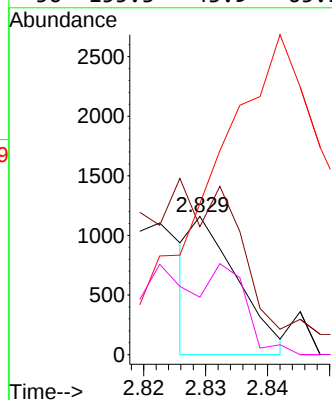
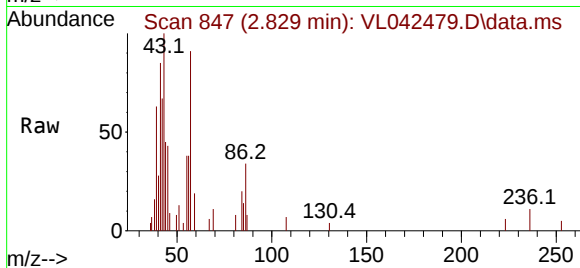




#26
Hexane
Concen: 0.069 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

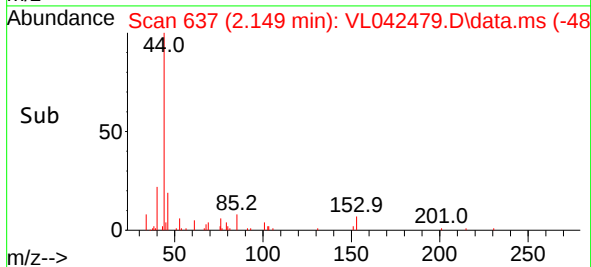
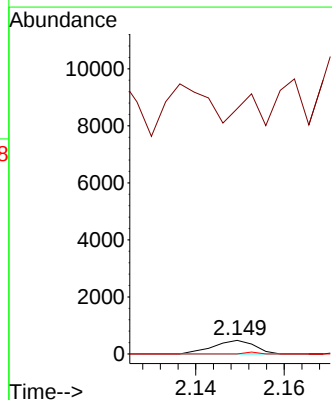
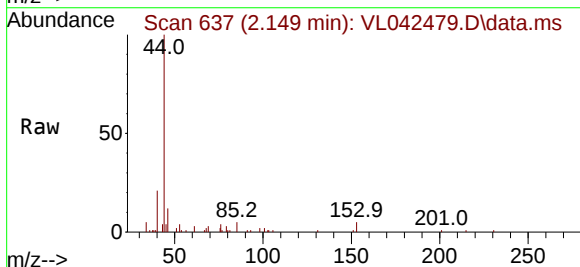
Instrument :
MSVOA_1
ClientSampleId :
EBR-P03-SC-IA01-20250428

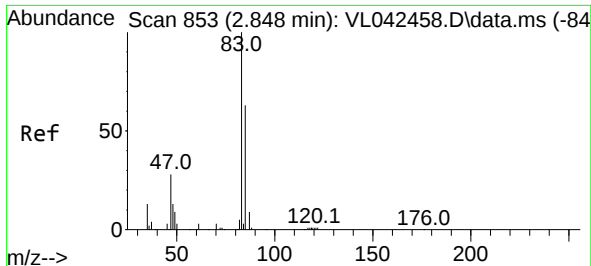
Tgt Ion: 57 Resp: 602
Ion Ratio Lower Upper
57 100
41 326.7 77.8 116.8#
43 0.0 187.0 280.6#
56 155.3 43.9 65.9#



#27
Carbon Disulfide
Concen: 0.030 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 76 Resp: 309
Ion Ratio Lower Upper
76 100
44 12179.0 21.0 31.6#
78 0.0 8.6 13.0#





#29

Chloroform

Concen: 0.037 ppbv

RT: 2.845 min Scan# 8

Delta R.T. -0.003 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

Instrument :

MSVOA_L

ClientSampleId :

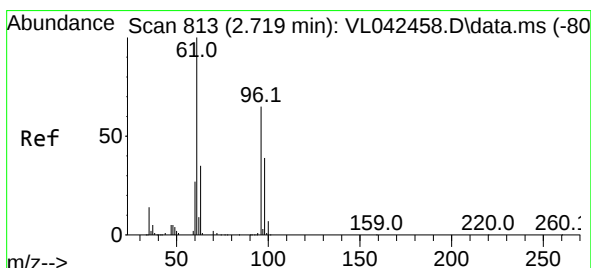
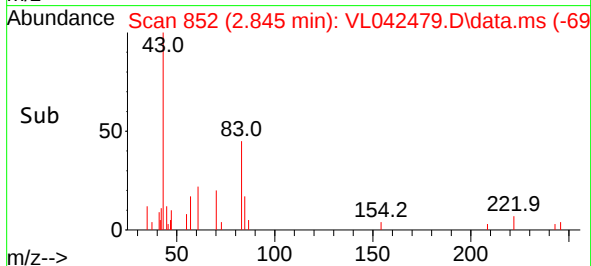
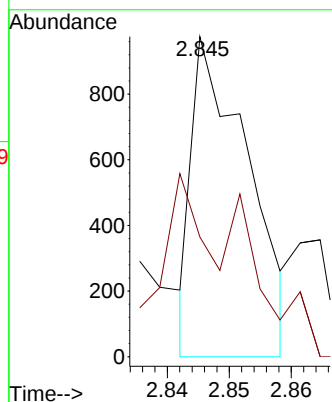
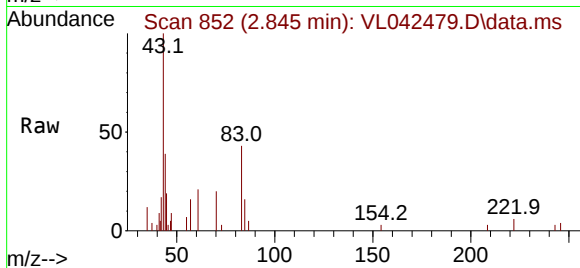
EBR-P03-SC-IA01-20250428

Tgt Ion: 83 Resp: 615

Ion Ratio Lower Upper

83 100

85 32.8 50.4 75.6#



#31

cis-1,2-Dichloroethene

Concen: 0.032 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.123 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

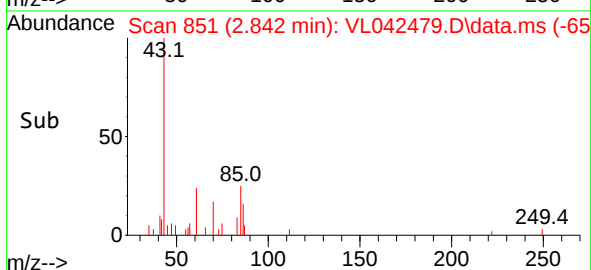
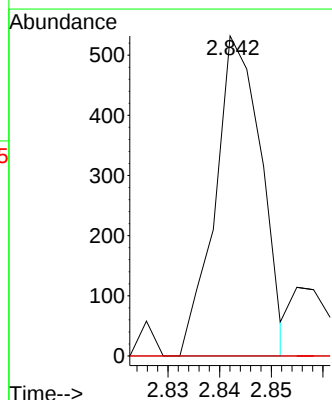
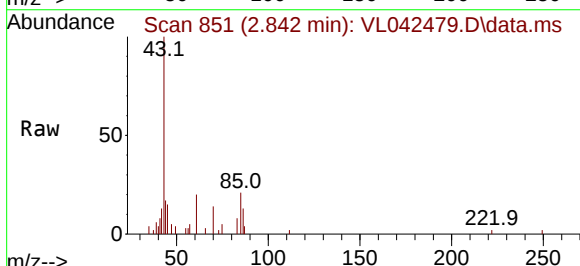
Tgt Ion: 61 Resp: 330

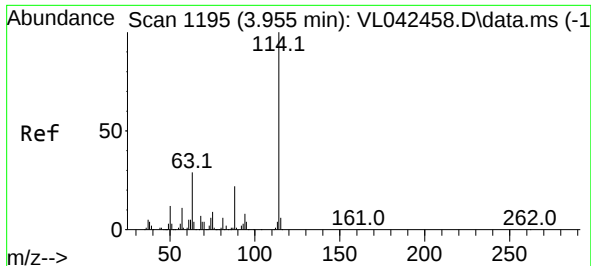
Ion Ratio Lower Upper

61 100

96 0.0 52.0 78.0#

98 0.0 31.0 46.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

Instrument :

MSVOA_L

ClientSampleId :

EBR-P03-SC-IA01-20250428

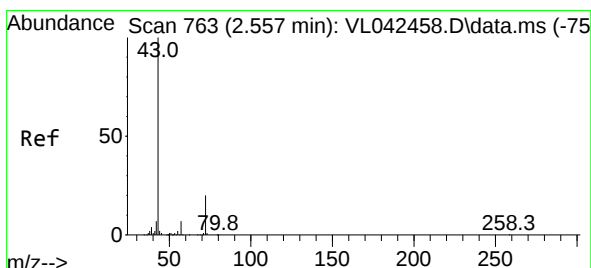
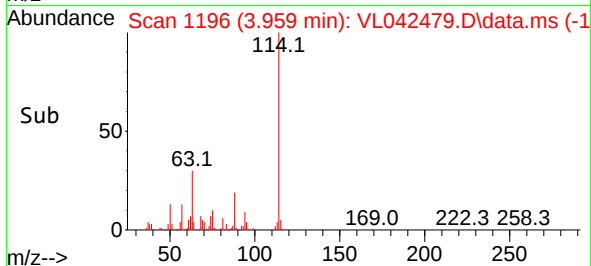
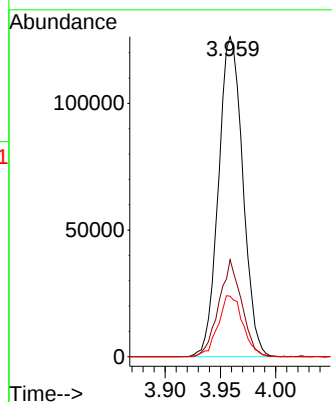
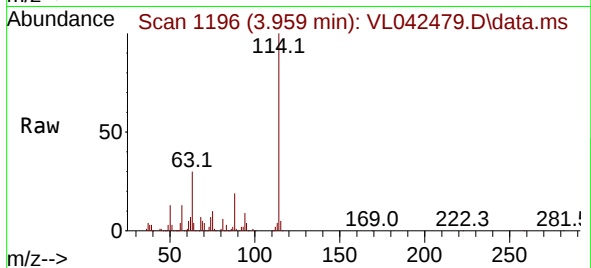
Tgt Ion:114 Resp: 192895

Ion Ratio Lower Upper

114 100

63 28.5 23.1 34.7

88 19.5 16.1 24.1



#34

2-Butanone

Concen: 0.589 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.007 min

Lab File: VL042479.D

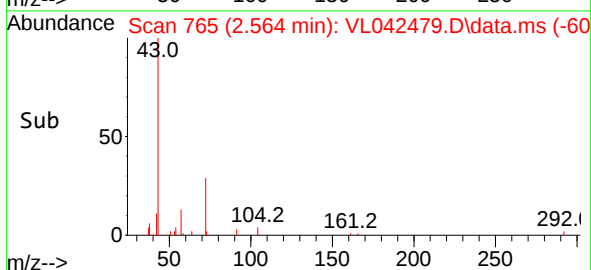
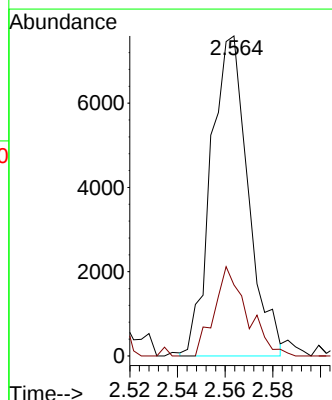
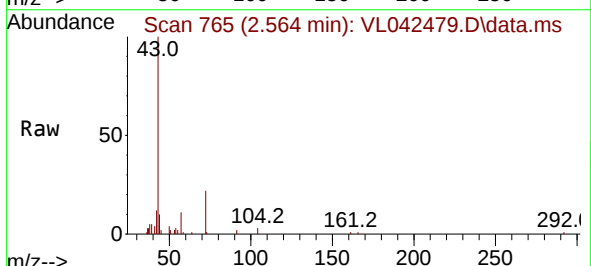
Acq: 05 May 2025 16:59

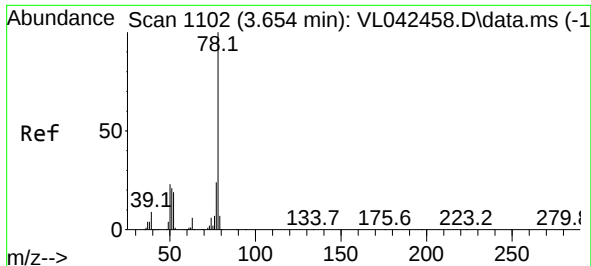
Tgt Ion: 43 Resp: 8223

Ion Ratio Lower Upper

43 100

72 24.7 16.7 25.1

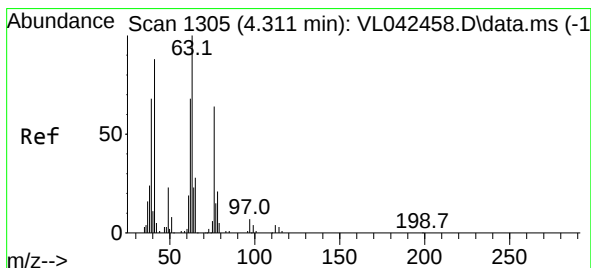
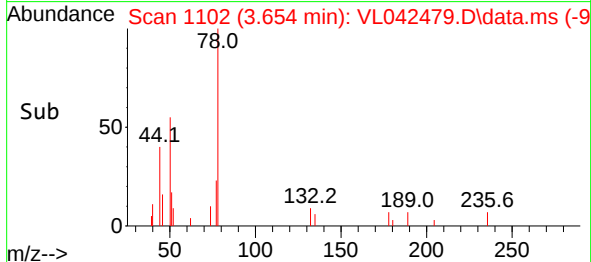
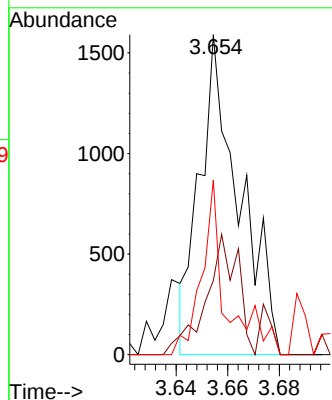
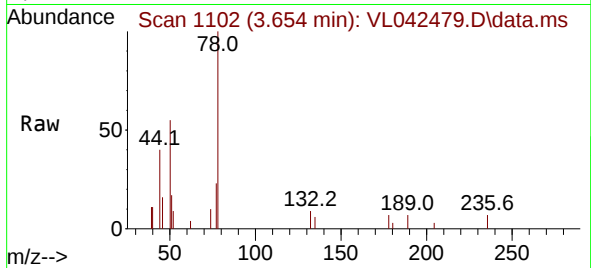




#36
Benzene
Concen: 0.093 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

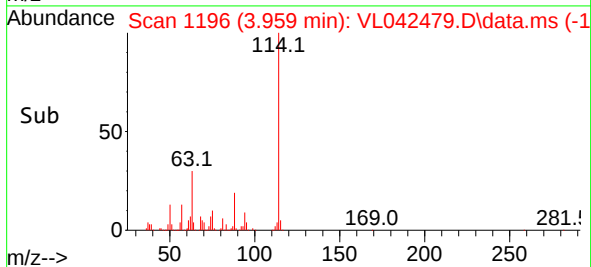
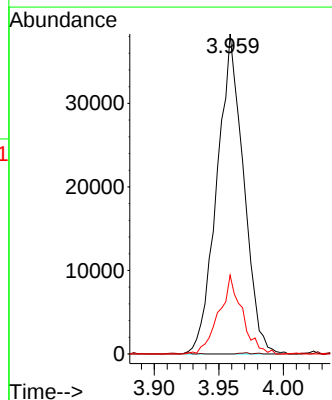
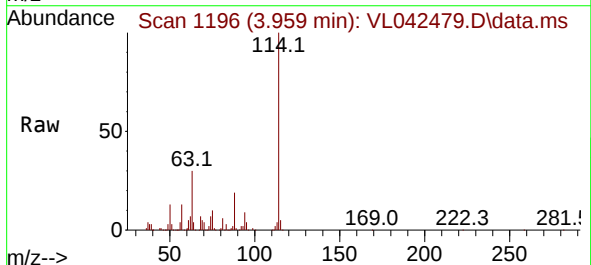
Instrument : MSVOA_L
ClientSampleId : EBR-P03-SC-IA01-20250428

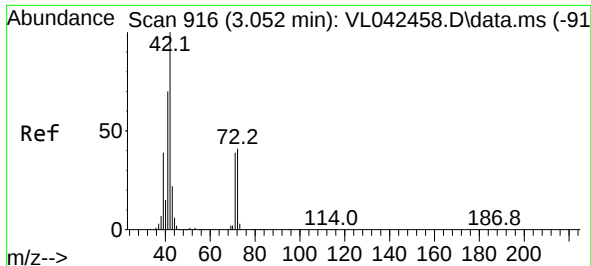
Tgt Ion: 78 Resp: 1690
Ion Ratio Lower Upper
78 100
77 23.1 18.9 28.3
50 54.6 18.4 27.6#



#39
1,2-Dichloropropane
Concen: 8.073 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 63 Resp: 55014
Ion Ratio Lower Upper
63 100
41 0.0 69.8 104.6#
62 24.6 54.3 81.5#

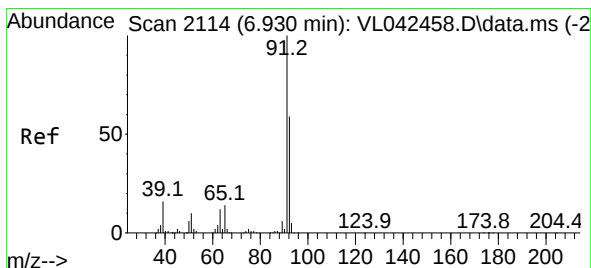
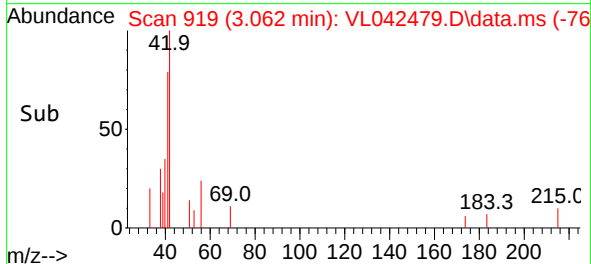
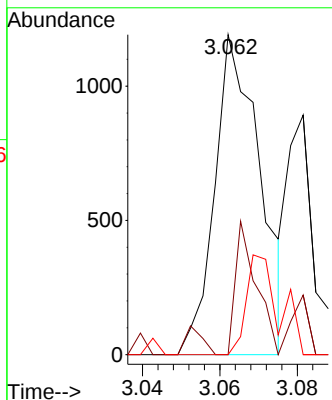
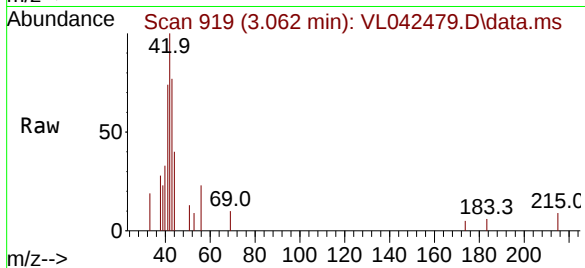




#41
Tetrahydrofuran
Concen: 0.146 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

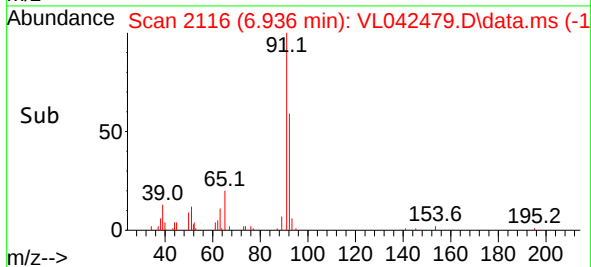
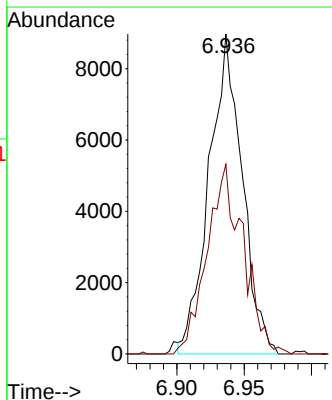
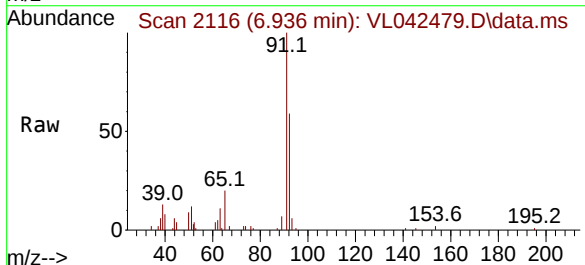
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

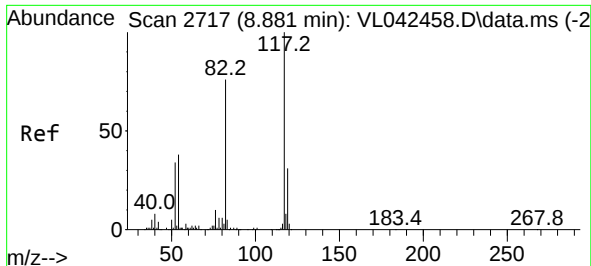
Tgt Ion: 42 Resp: 970
Ion Ratio Lower Upper
42 100
72 31.2 33.5 50.3#
71 22.3 32.6 49.0#



#53
Toluene
Concen: 0.795 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.007 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 15313
Ion Ratio Lower Upper
91 100
92 64.8 47.9 71.9

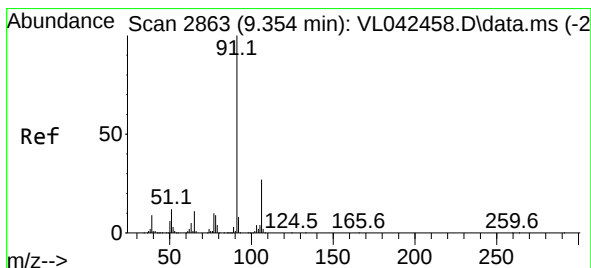
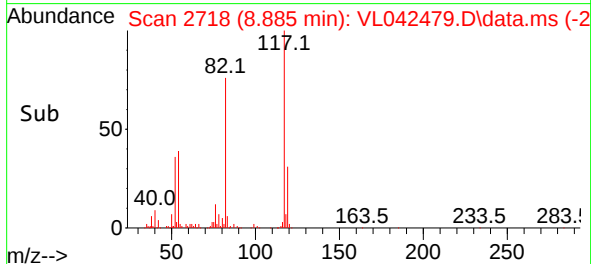
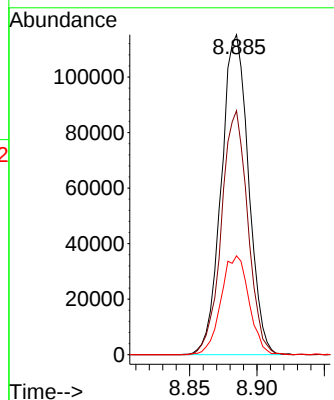
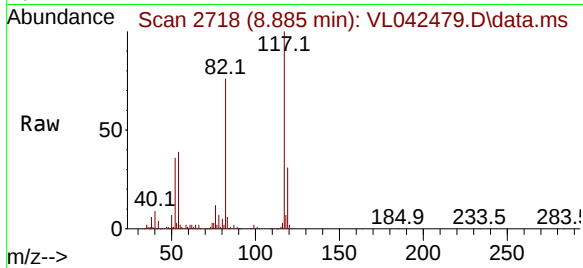




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

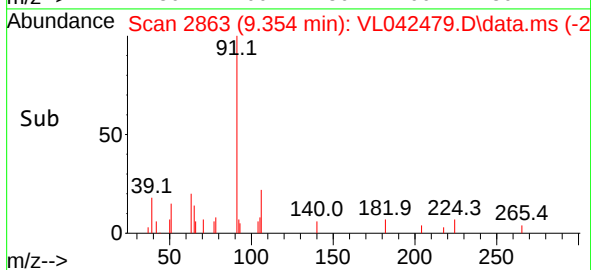
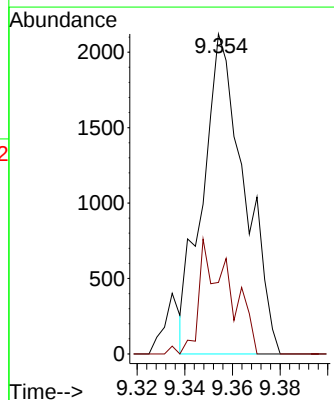
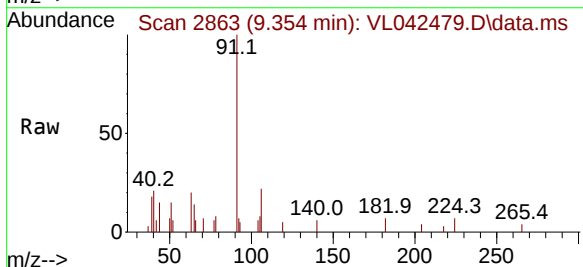
Instrument :
MSVOA_L
ClientSampleId :
EBR-P03-SC-IA01-20250428

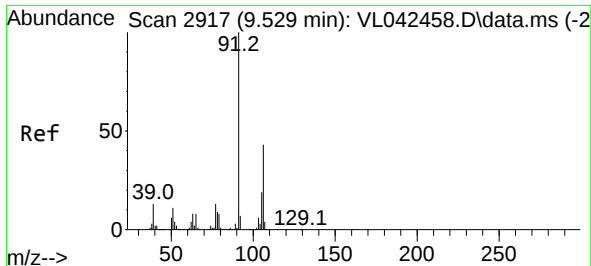
Tgt Ion: 117 Resp: 161884
Ion Ratio Lower Upper
117 100
82 73.8 63.5 95.3
119 31.9 25.8 38.8



#58
Ethyl Benzene
Concen: 0.096 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion: 91 Resp: 2584
Ion Ratio Lower Upper
91 100
106 22.3 21.9 32.9





#59

m/p-Xylene

Concen: 0.168 ppbv

RT: 9.535 min Scan# 2917

Delta R.T. 0.007 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

Instrument :

MSVOA_1

ClientSampleId :

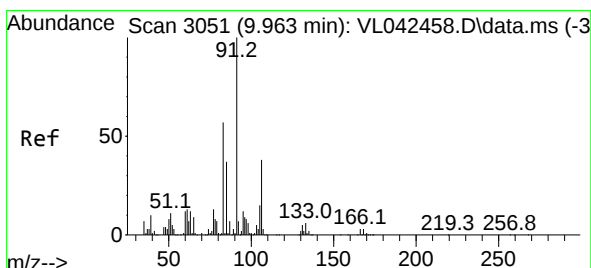
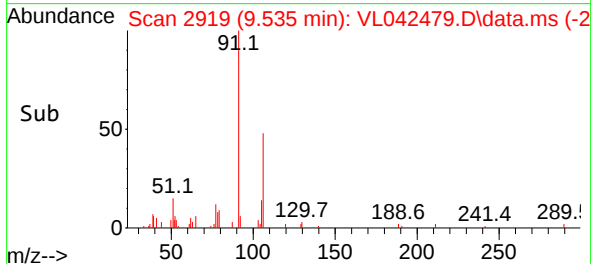
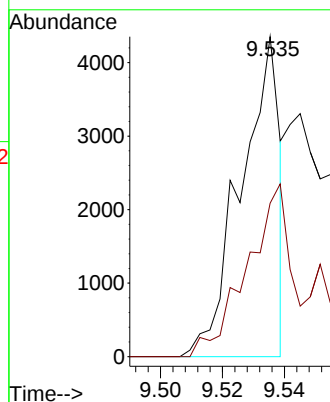
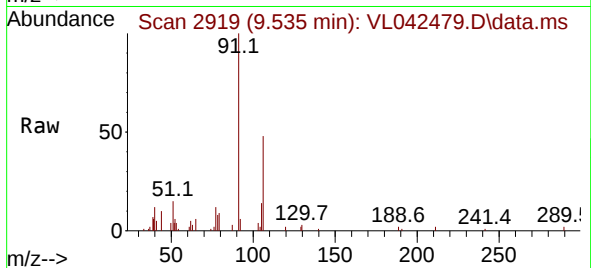
EBR-P03-SC-IA01-20250428

Tgt Ion: 91 Resp: 3801

Ion Ratio Lower Upper

91 100

106 84.2 34.2 51.2#



#60

o-Xylene

Concen: 0.090 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042479.D

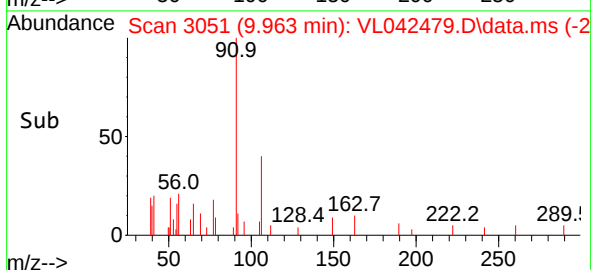
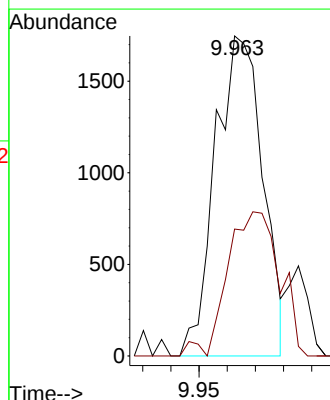
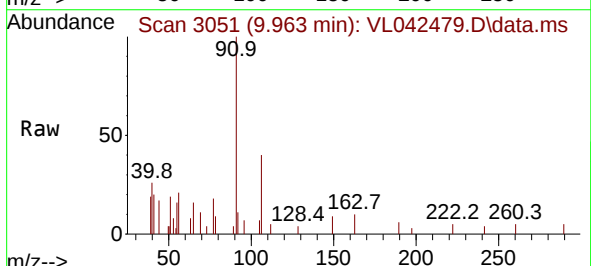
Acq: 05 May 2025 16:59

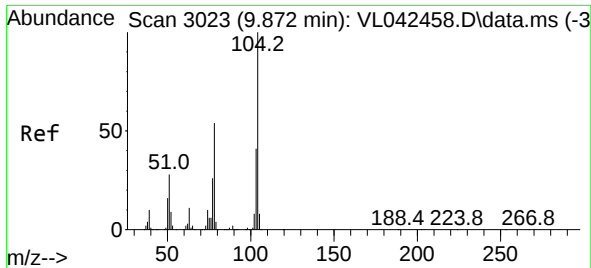
Tgt Ion: 91 Resp: 2046

Ion Ratio Lower Upper

91 100

106 49.5 20.1 60.2





#61

Styrene

Concen: 0.033 ppbv

RT: 9.878 min Scan# 3023

Delta R.T. 0.007 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

Instrument :

MSVOA_L

ClientSampleId :

EBR-P03-SC-IA01-20250428

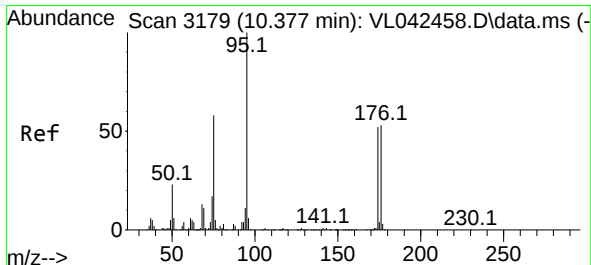
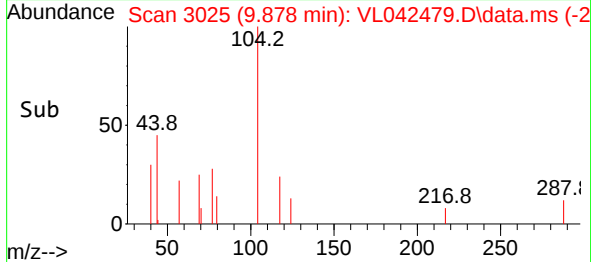
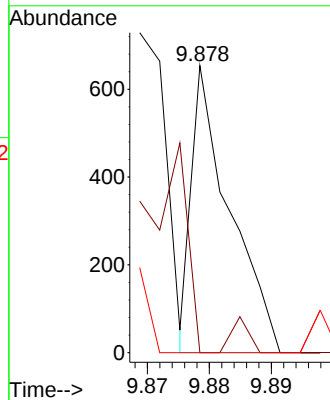
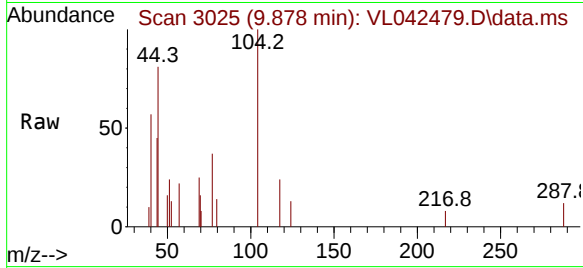
Tgt Ion:104 Resp: 281

Ion Ratio Lower Upper

104 100

78 92.9 46.9 70.3#

103 0.0 36.6 55.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.399 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.000 min

Lab File: VL042479.D

Acq: 05 May 2025 16:59

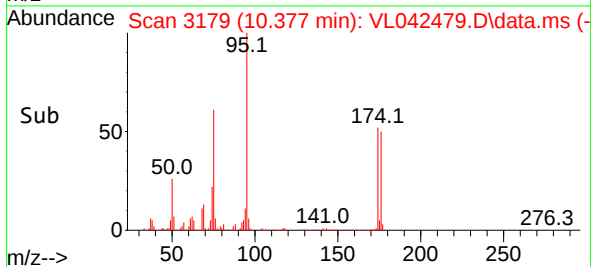
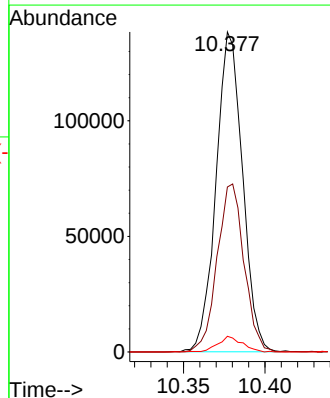
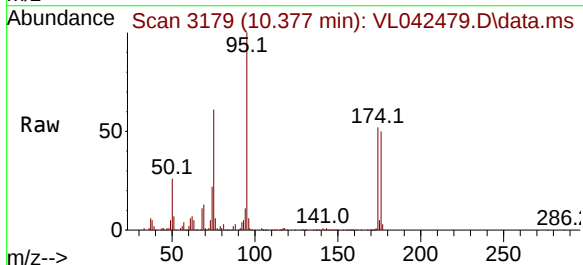
Tgt Ion: 95 Resp: 156074

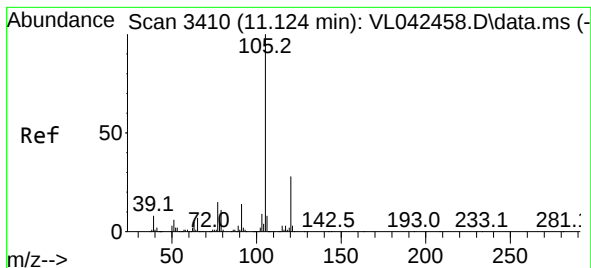
Ion Ratio Lower Upper

95 100

174 53.4 42.7 64.1

175 4.5 3.6 5.4

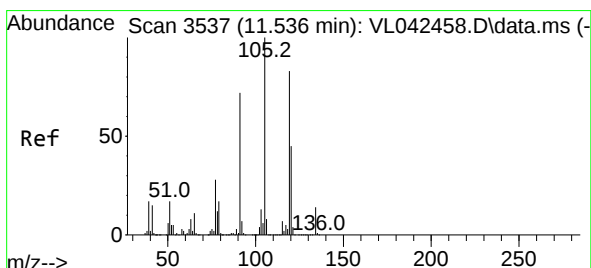
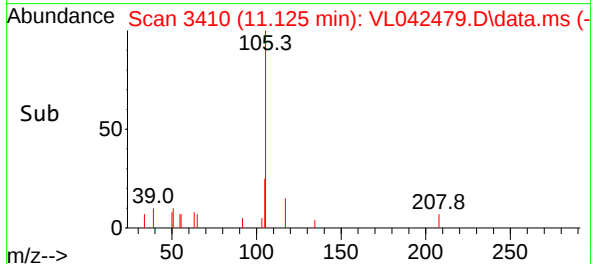
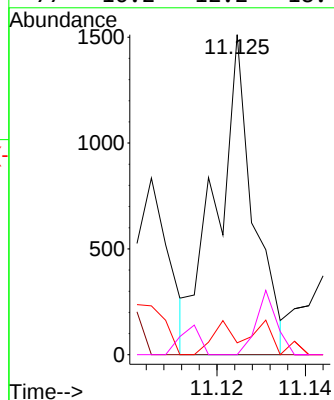
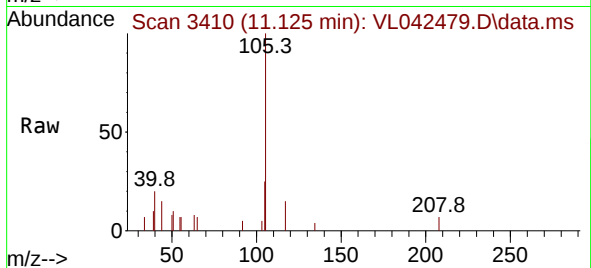




#72
4-Ethyltoluene
Concen: 0.032 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Instrument :
MSVOA_1
ClientSampleId :
EBR-P03-SC-IA01-20250428

Tgt Ion:	105	Resp:	870
Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.0	33.0#
91	0.0	11.2	16.8#
77	16.2	12.2	18.4



#74
1,2,4-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042479.D
Acq: 05 May 2025 16:59

Tgt Ion:	105	Resp:	1425
Ion	Ratio	Lower	Upper
105	100		
120	54.1	36.1	54.1#
91	9.3	57.6	86.4#
77	26.5	22.1	33.1

