

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042455.D
 Acq On : 29 Apr 2025 20:30
 Operator : SY/MD
 Sample : Q1908-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2DL

Quant Time: Apr 30 01:25:35 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	115746	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	299367	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.895	117	250795	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	226129	10.972	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.700%

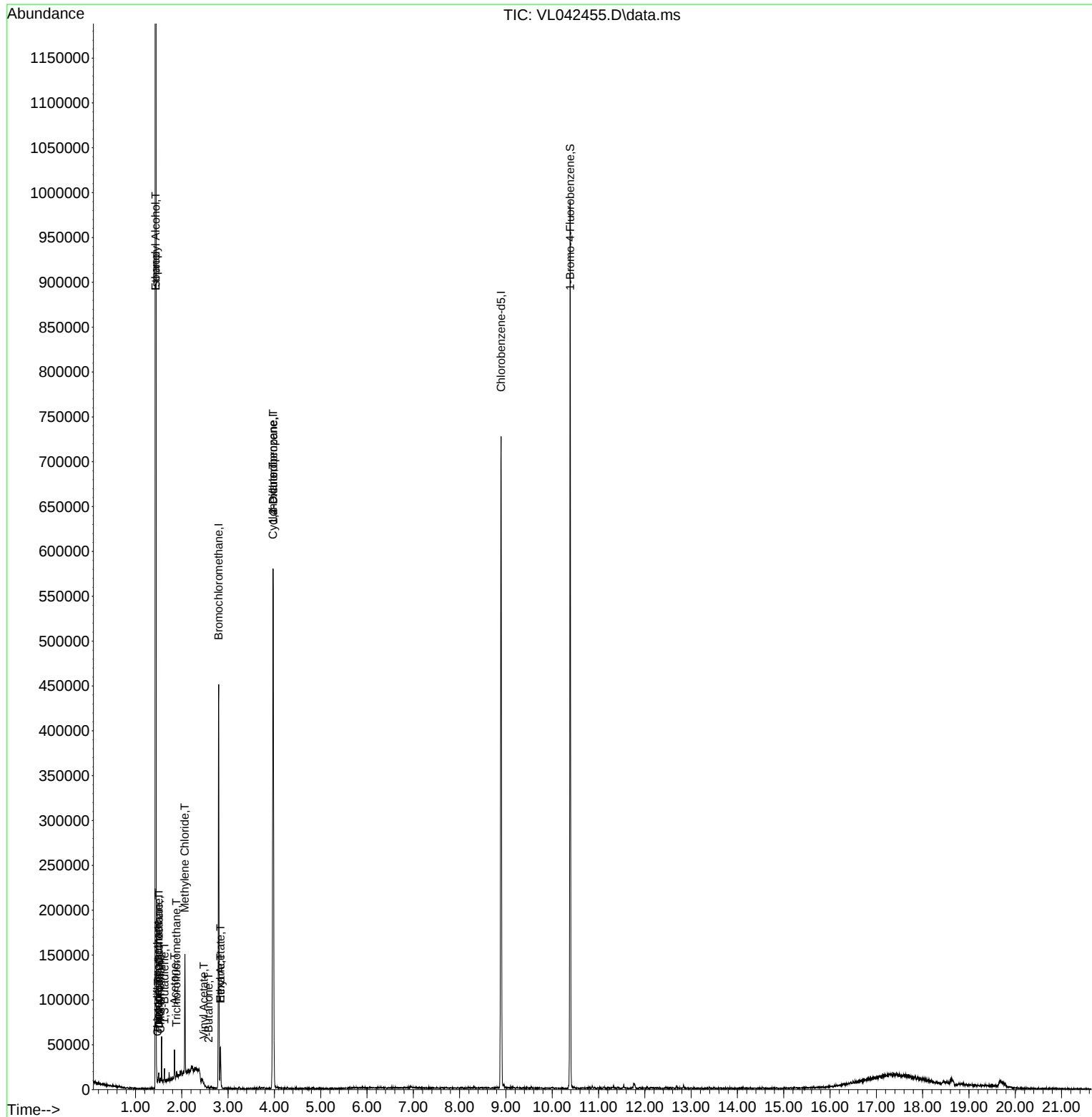
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2466	0.121	ppbv	99
3) Chlorodifluoromethane	1.479	51	2552	0.131	ppbv	98
4) Chloromethane	1.535	50	1007	0.124	ppbv #	61
8) Dichlorotetrafluoroethane	1.502	85	2466	0.140	ppbv #	17
9) Propene	1.489	41	636	0.072	ppbv #	25
11) Trichlorofluoromethane	1.884	101	995	0.051	ppbv #	56
13) Ethanol	1.437	45	181110	128.485	ppbv #	24
15) Acetone	1.842	43	14692	0.775	ppbv	93
16) 1,3-Butadiene	1.625	39	1072	0.118	ppbv #	35
19) Isopropyl Alcohol	1.437	45	181110	17.206	ppbv #	33
20) Methylene Chloride	2.065	84	20638	2.781	ppbv #	90
23) Vinyl Acetate	2.476	43	302	0.039	ppbv #	81
25) Ethyl Acetate	2.836	43	6387	0.137	ppbv #	78
26) Hexane	2.832	57	9495	0.502	ppbv #	28
30) Cyclohexane	3.968	84	1473	0.096	ppbv #	1
34) 2-Butanone	2.577	43	1424	0.060	ppbv	97
39) 1,2-Dichloropropane	3.972	63	87072	7.236	ppbv #	23

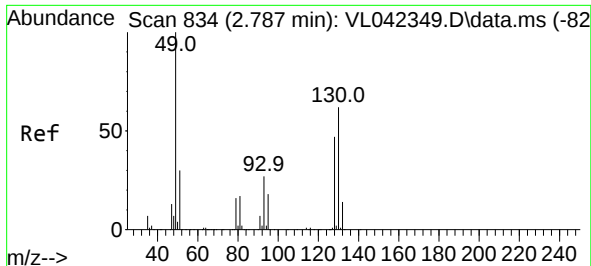
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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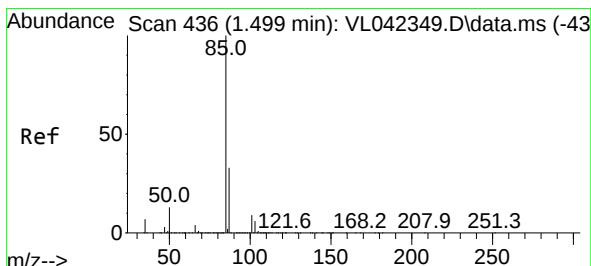
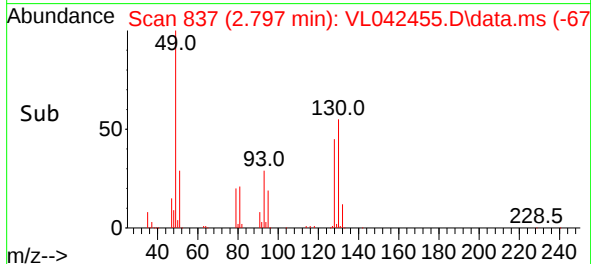
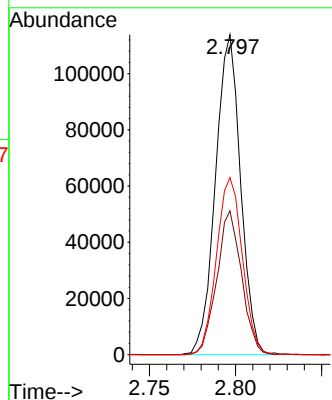
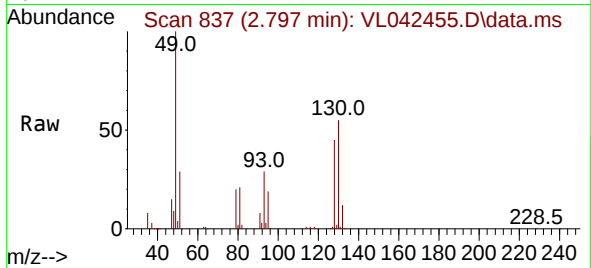




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

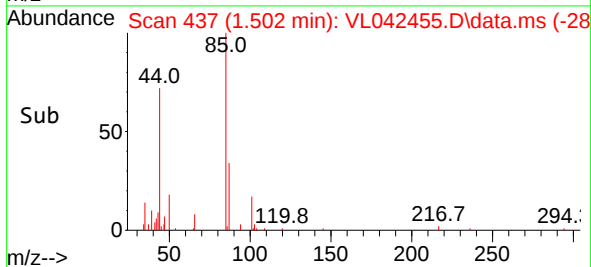
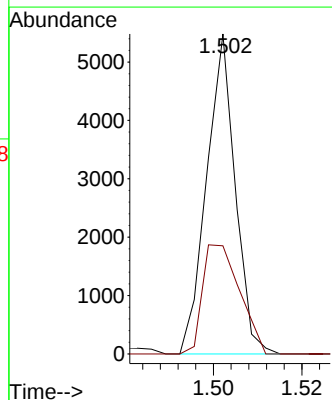
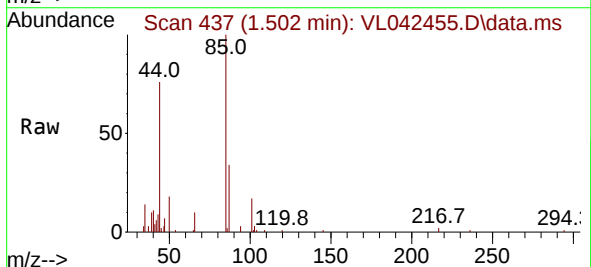
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

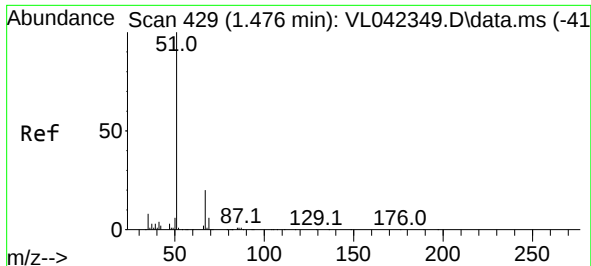
Tgt Ion: 49 Resp: 115746
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 57.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.121 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

Tgt Ion: 85 Resp: 2466
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8

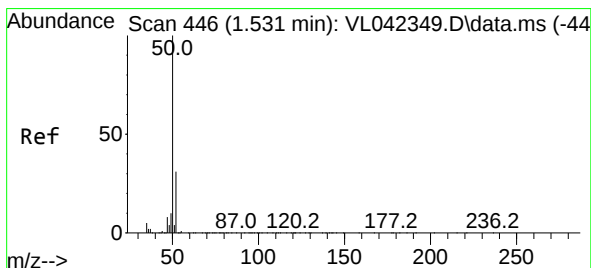
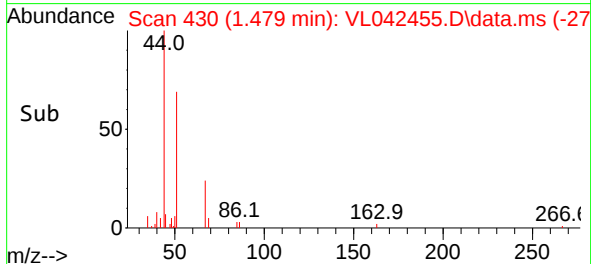
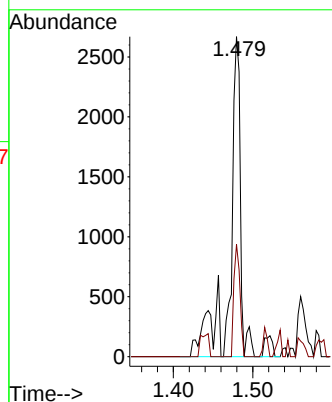
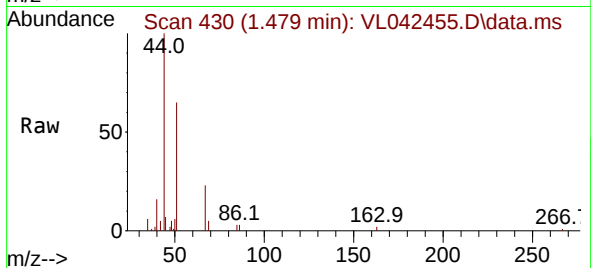




#3
Chlorodifluoromethane
Concen: 0.131 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

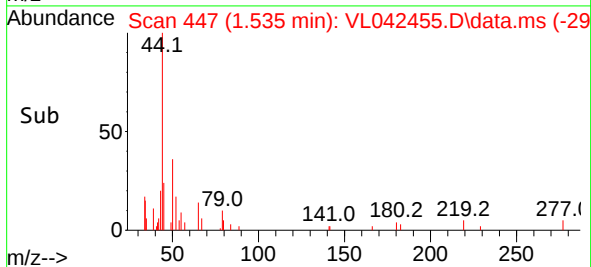
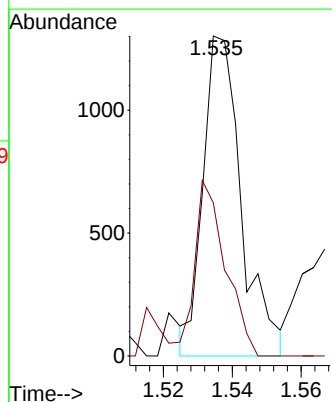
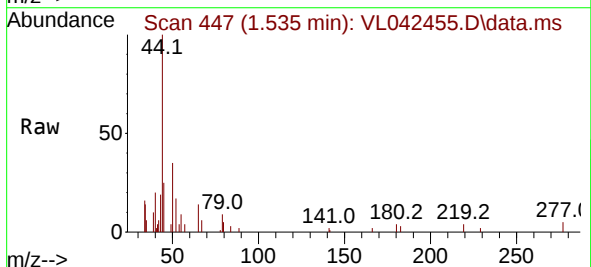
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

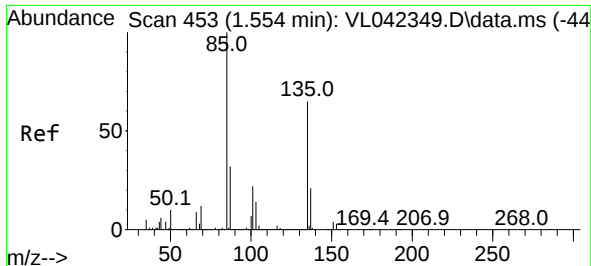
Tgt Ion: 51 Resp: 2552
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4



#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

Tgt Ion: 50 Resp: 1007
Ion Ratio Lower Upper
50 100
52 52.0 24.7 37.1#

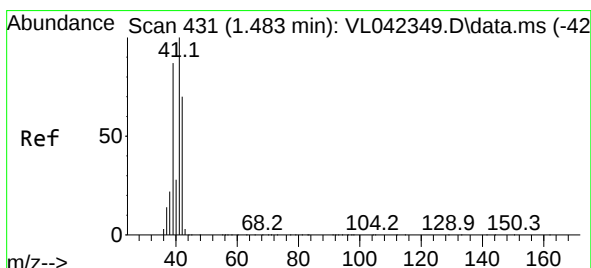
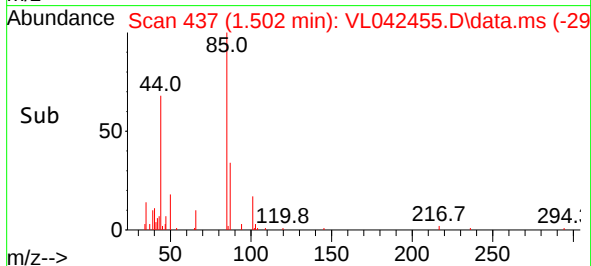
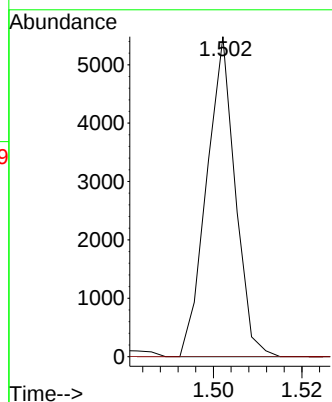
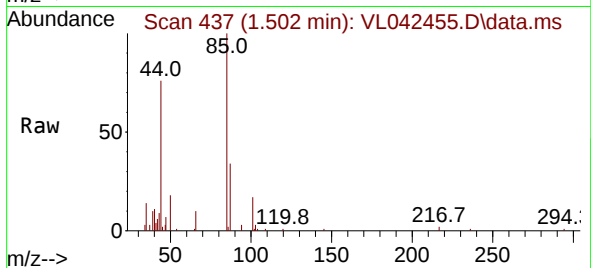




#8
Dichlorotetrafluoroethane
Concen: 0.140 ppbv
RT: 1.502 min Scan# 411
Delta R.T. -0.052 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

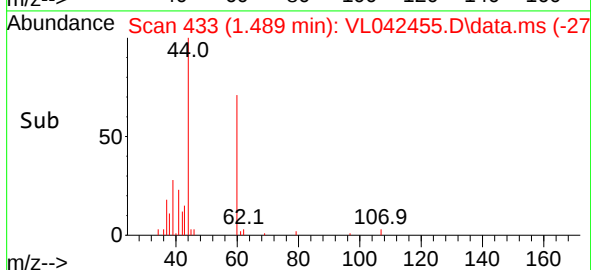
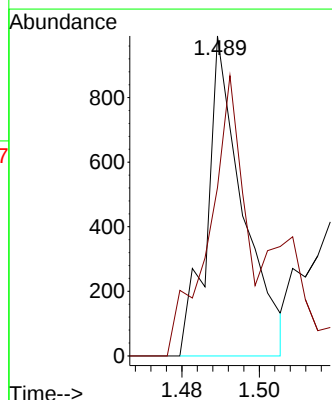
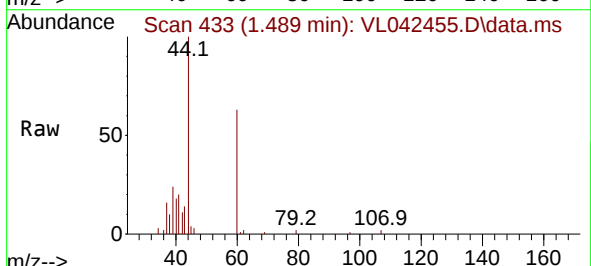
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

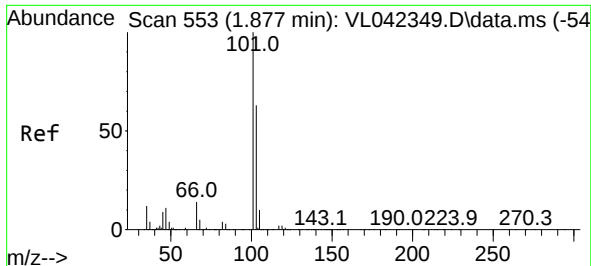
Tgt Ion: 85 Resp: 2466
Ion Ratio Lower Upper
85 100
135 0.0 52.2 78.2#



#9
Propene
Concen: 0.072 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

Tgt Ion: 41 Resp: 636
Ion Ratio Lower Upper
41 100
42 131.8 56.2 84.4#

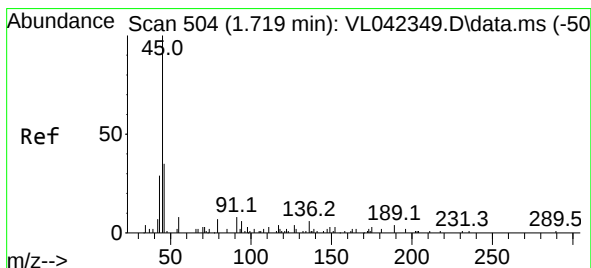
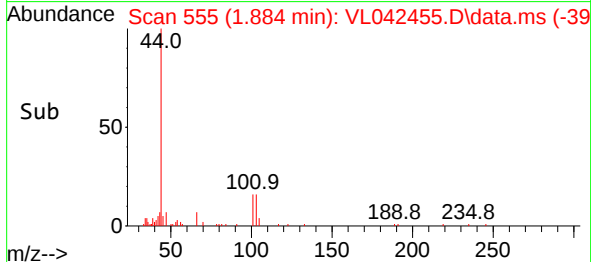
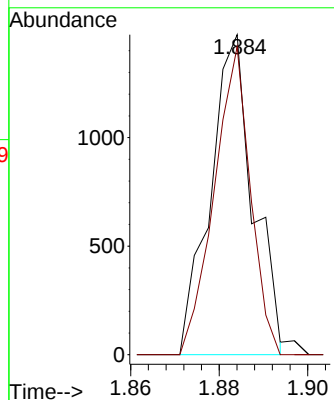
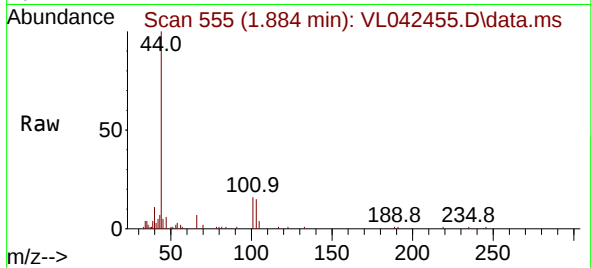




#11
Trichlorofluoromethane
Concen: 0.051 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

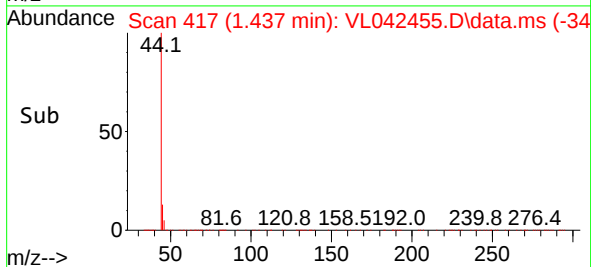
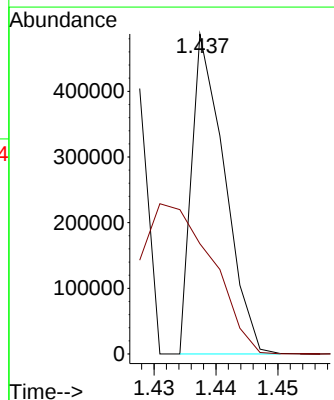
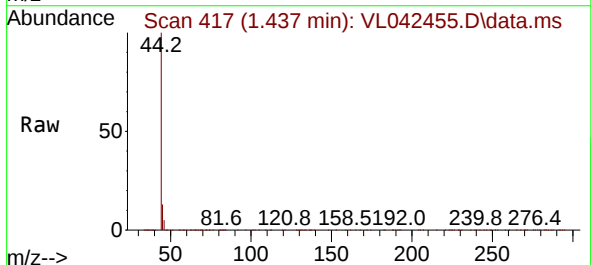
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

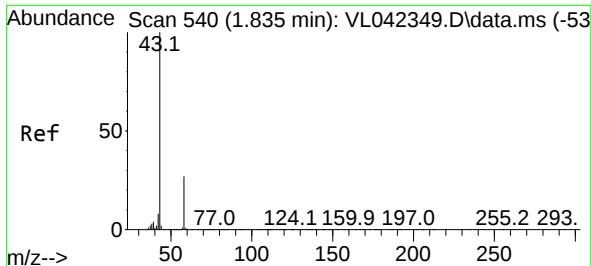
Tgt Ion:101 Resp: 995
Ion Ratio Lower Upper
101 100
103 96.3 50.1 75.1#



#13
Ethanol
Concen: 128.485 ppbv
RT: 1.437 min Scan# 417
Delta R.T. -0.281 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

Tgt Ion: 45 Resp: 181110
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15

Acetone

Concen: 0.775 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.007 min

Lab File: VL042455.D

Acq: 29 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

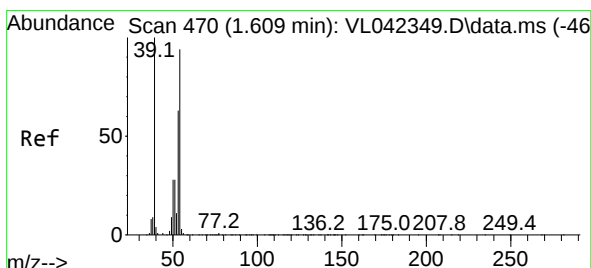
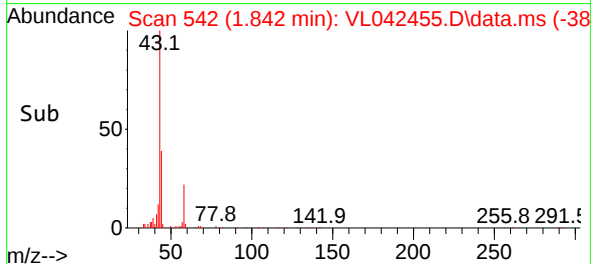
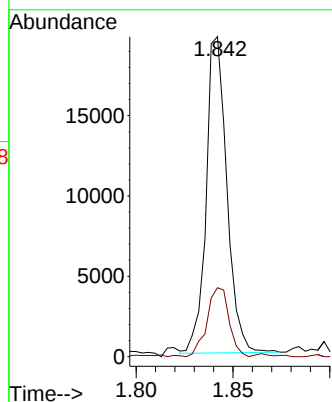
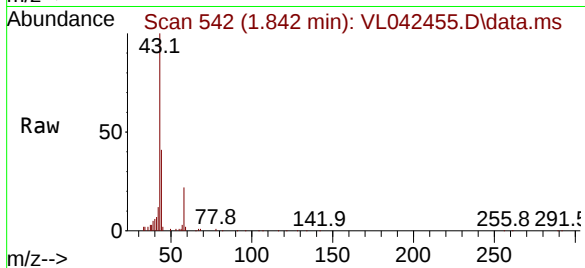
B-2DL

Tgt Ion: 43 Resp: 14692

Ion Ratio Lower Upper

43 100

58 24.1 22.4 33.6



#16

1,3-Butadiene

Concen: 0.118 ppbv

RT: 1.625 min Scan# 475

Delta R.T. 0.016 min

Lab File: VL042455.D

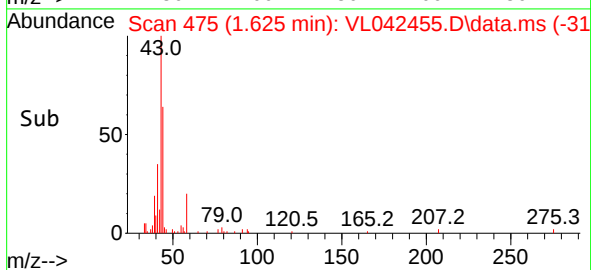
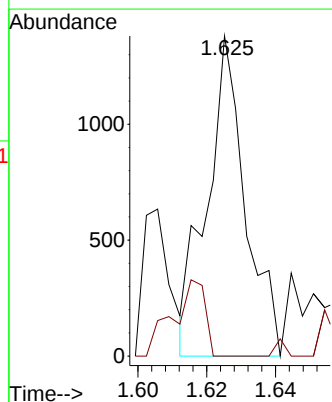
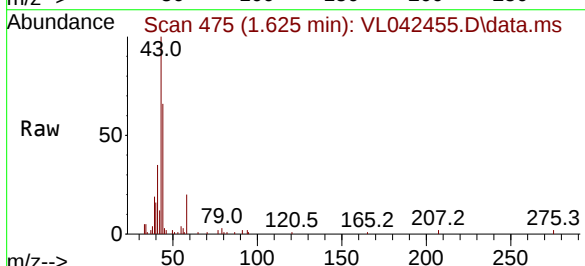
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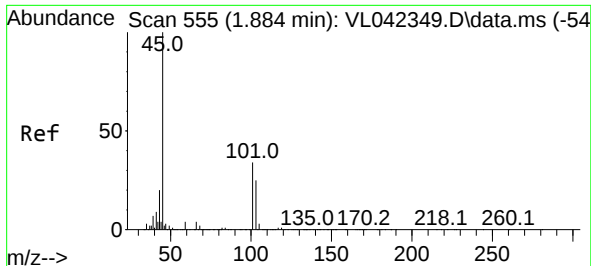
Tgt Ion: 39 Resp: 1072

Ion Ratio Lower Upper

39 100

54 23.1 64.9 97.3#

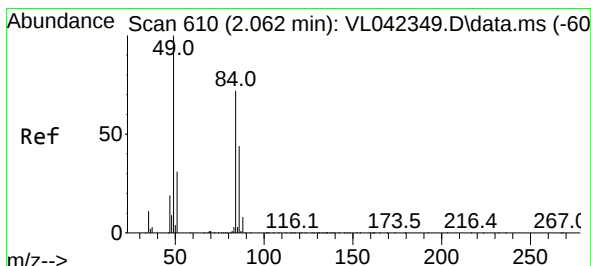
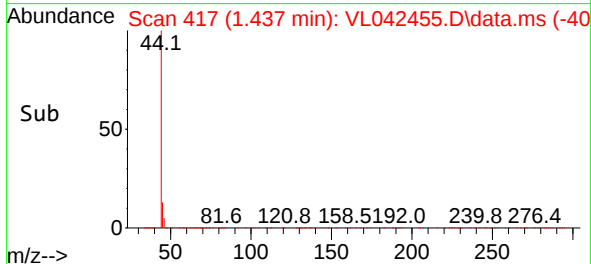
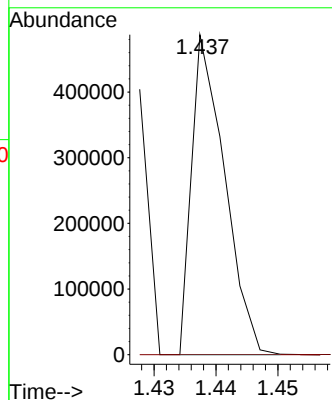
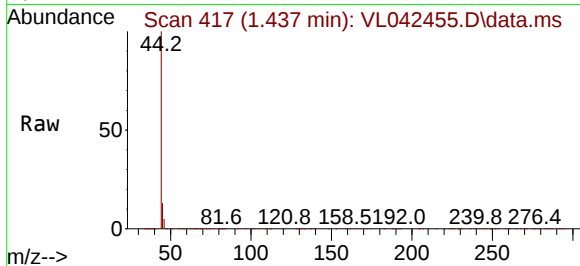




#19
Isopropyl Alcohol
Concen: 17.206 ppbv
RT: 1.437 min Scan# 417
Delta R.T. -0.447 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

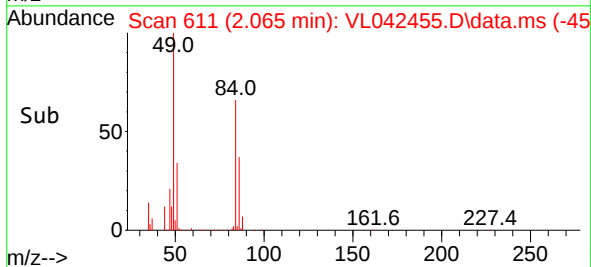
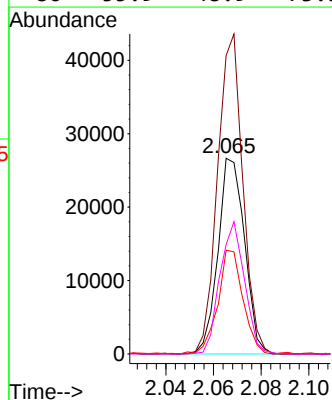
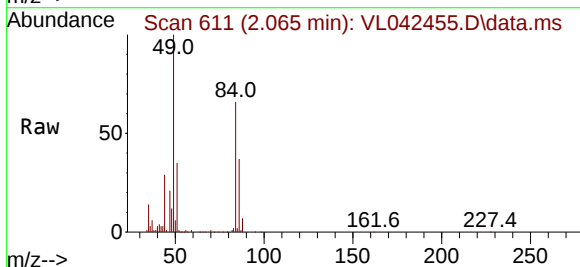
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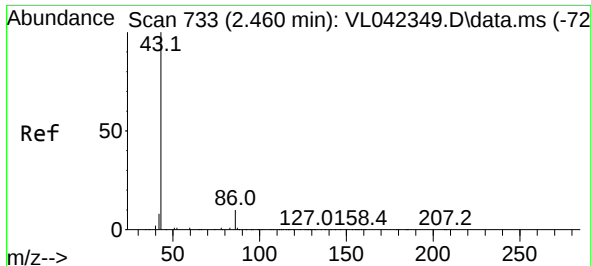
Tgt Ion: 45 Resp: 181110
Ion Ratio Lower Upper
45 100
58 0.1 34.5 51.7#



#20
Methylene Chloride
Concen: 2.781 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

Tgt Ion: 84 Resp: 20638
Ion Ratio Lower Upper
84 100
49 152.6 111.6 167.4
51 53.1 35.1 52.7#
86 55.9 48.9 73.3

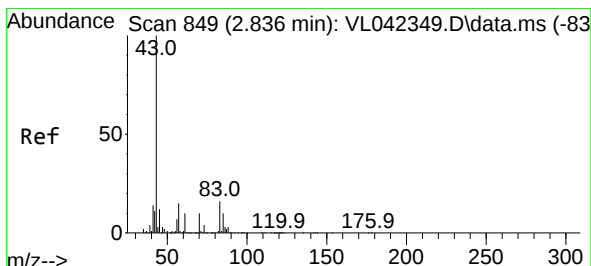
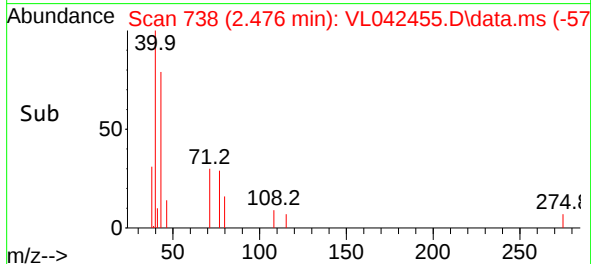
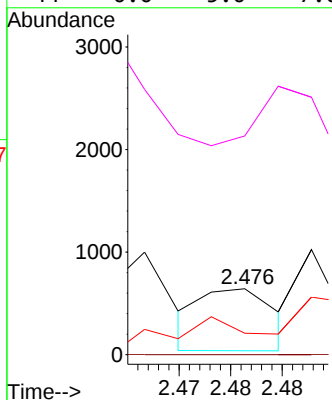
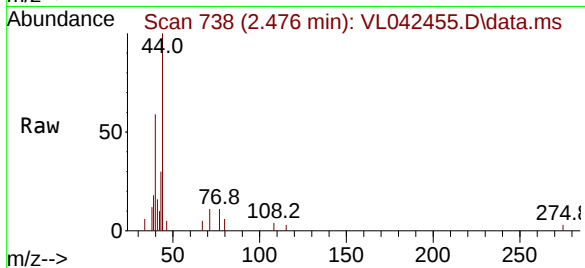




#23
 Vinyl Acetate
 Concen: 0.039 ppbv
 RT: 2.476 min Scan# 738
 Delta R.T. 0.016 min
 Lab File: VL042455.D
 Acq: 29 Apr 2025 20:30

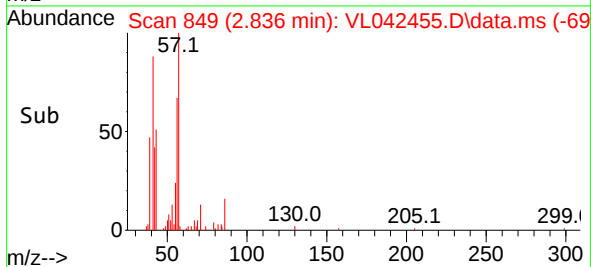
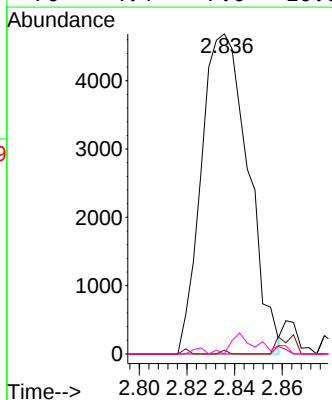
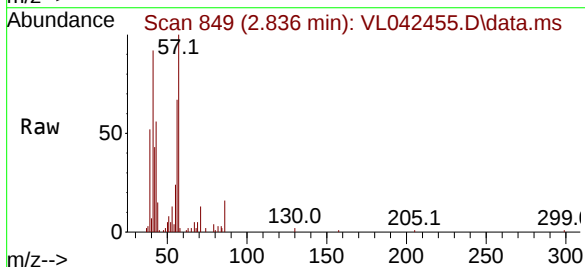
Instrument :
 MSVOA_L
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 B-2DL

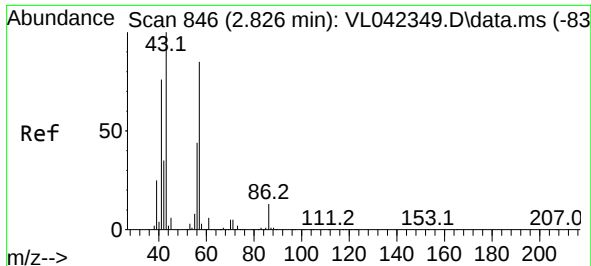
Tgt Ion:	43	Resp:	302
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	3.5	7.8	11.8#
44	0.0	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.137 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. 0.000 min
 Lab File: VL042455.D
 Acq: 29 Apr 2025 20:30

Tgt Ion:	43	Resp:	6387
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.0	7.3	10.9#
70	4.4	7.0	10.6#

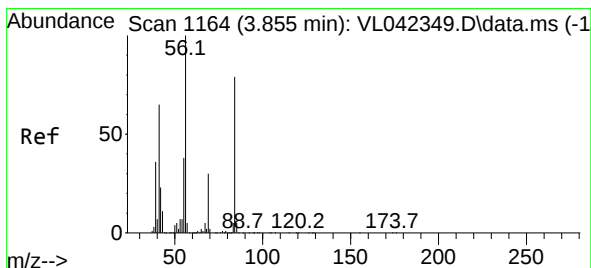
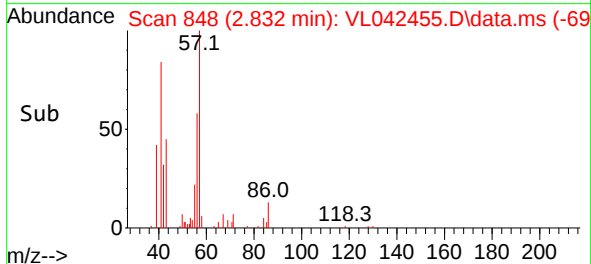
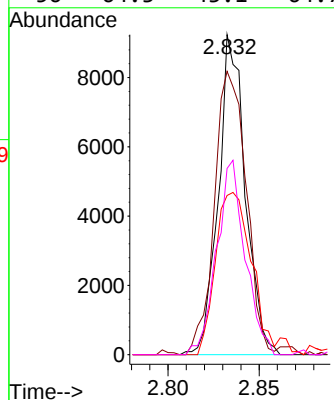
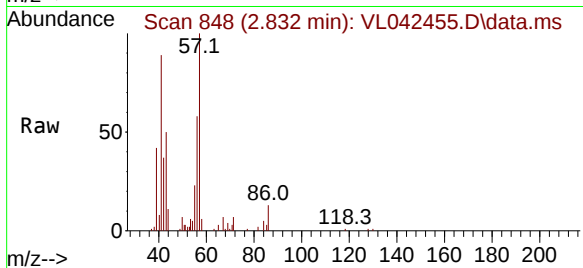




#26
Hexane
Concen: 0.502 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

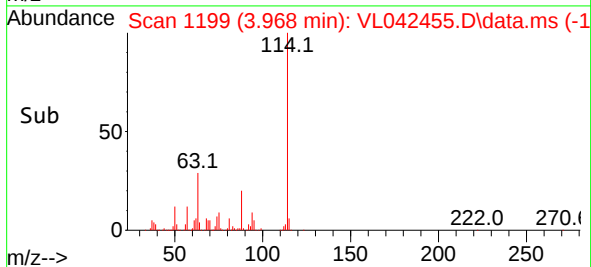
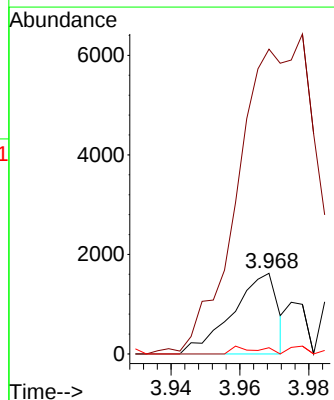
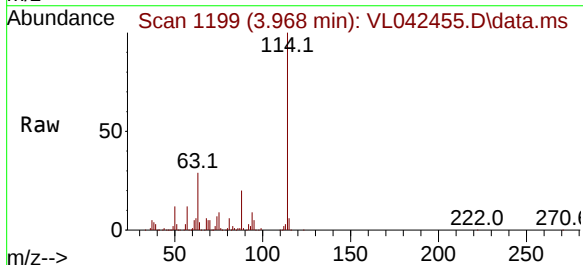
Instrument :
MSVOA_L
ClientSampleId :
B-2DL

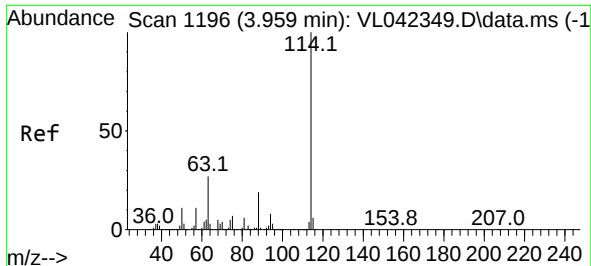
Tgt Ion: 57 Resp: 9495
Ion Ratio Lower Upper
57 100
41 107.1 77.9 116.9
43 69.4 208.4 312.6#
56 64.3 43.1 64.7



#30
Cyclohexane
Concen: 0.096 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.113 min
Lab File: VL042455.D
Acq: 29 Apr 2025 20:30

Tgt Ion: 84 Resp: 1473
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 1.4 67.4 101.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1196

Delta R.T. 0.013 min

Lab File: VL042455.D

Acq: 29 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

B-2DL

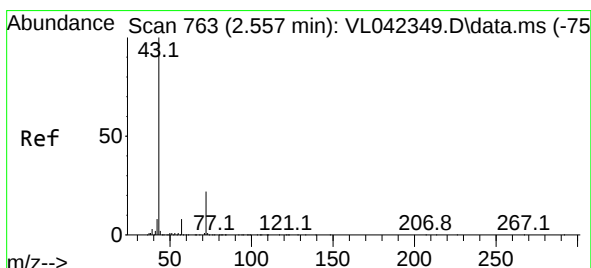
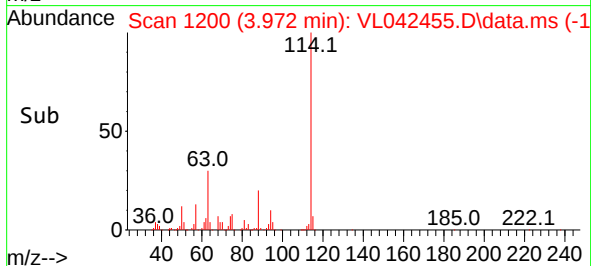
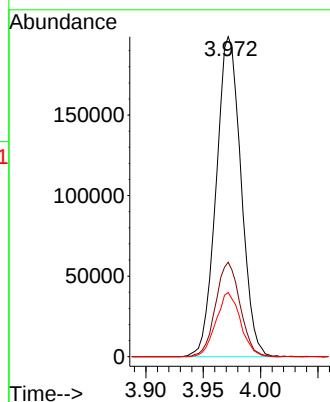
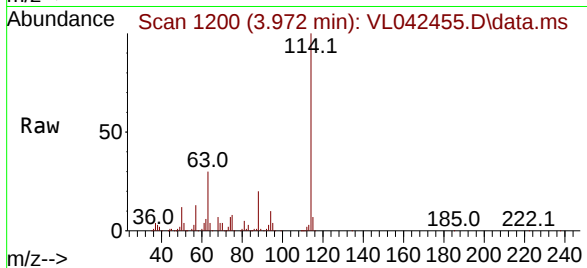
Tgt Ion:114 Resp: 299367

Ion Ratio Lower Upper

114 100

63 29.1 21.8 32.6

88 19.8 15.5 23.3



#34

2-Butanone

Concen: 0.060 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.020 min

Lab File: VL042455.D

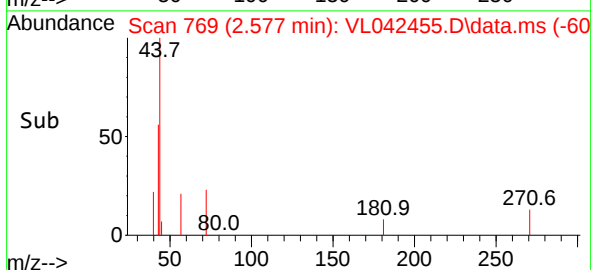
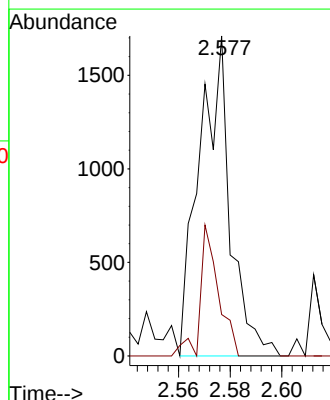
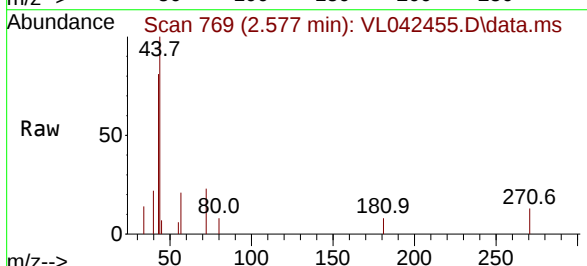
Acq: 29 Apr 2025 20:30

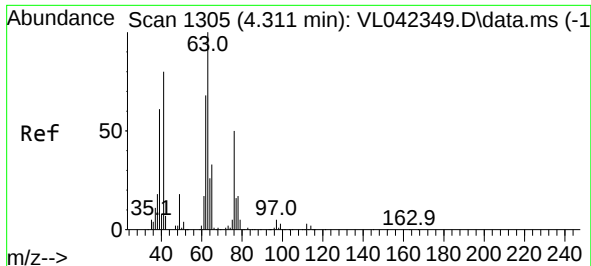
Tgt Ion: 43 Resp: 1424

Ion Ratio Lower Upper

43 100

72 24.1 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.236 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.340 min

Lab File: VL042455.D

Acq: 29 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

B-2DL

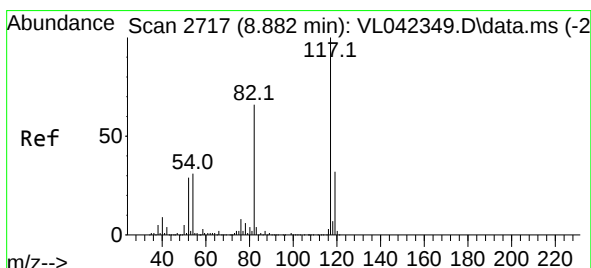
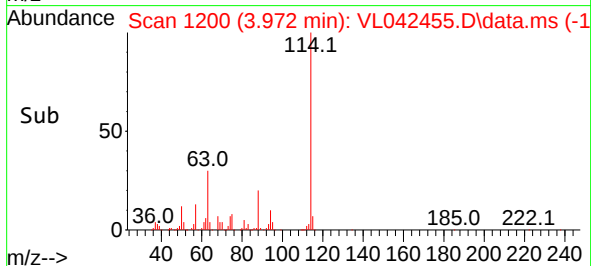
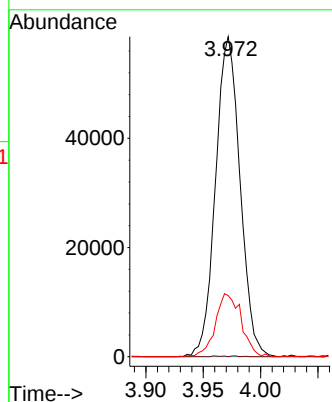
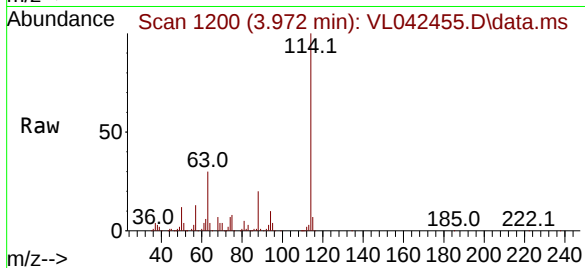
Tgt Ion: 63 Resp: 87072

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 19.1 54.3 81.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 2721

Delta R.T. 0.013 min

Lab File: VL042455.D

Acq: 29 Apr 2025 20:30

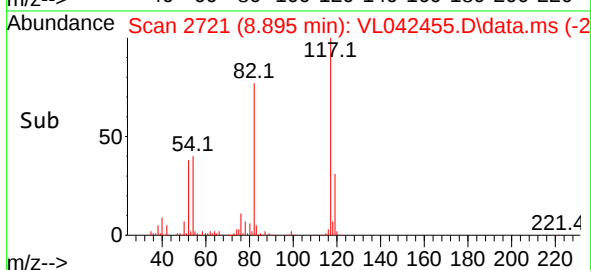
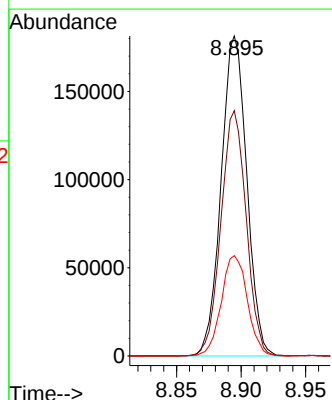
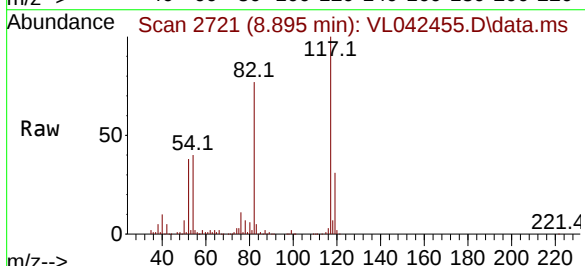
Tgt Ion: 117 Resp: 250795

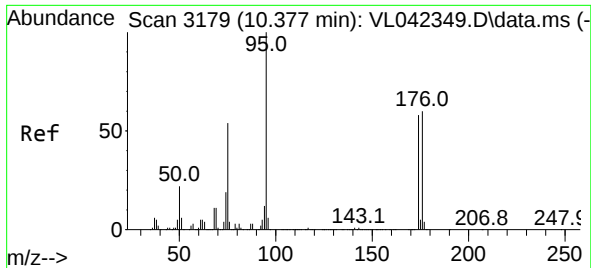
Ion Ratio Lower Upper

117 100

82 75.5 57.8 86.6

119 31.9 25.2 37.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.972 ppbv
 RT: 10.387 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL042455.D
 Acq: 29 Apr 2025 20:30

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2DL

Tgt Ion: 95 Resp: 226129
 Ion Ratio Lower Upper
 95 100
 174 50.8 48.5 72.7
 175 4.1 3.7 5.5

