

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040648.D
 Acq On : 5 Sep 2023 15:26
 Operator : SY/MD
 Sample : 04281-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:06:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

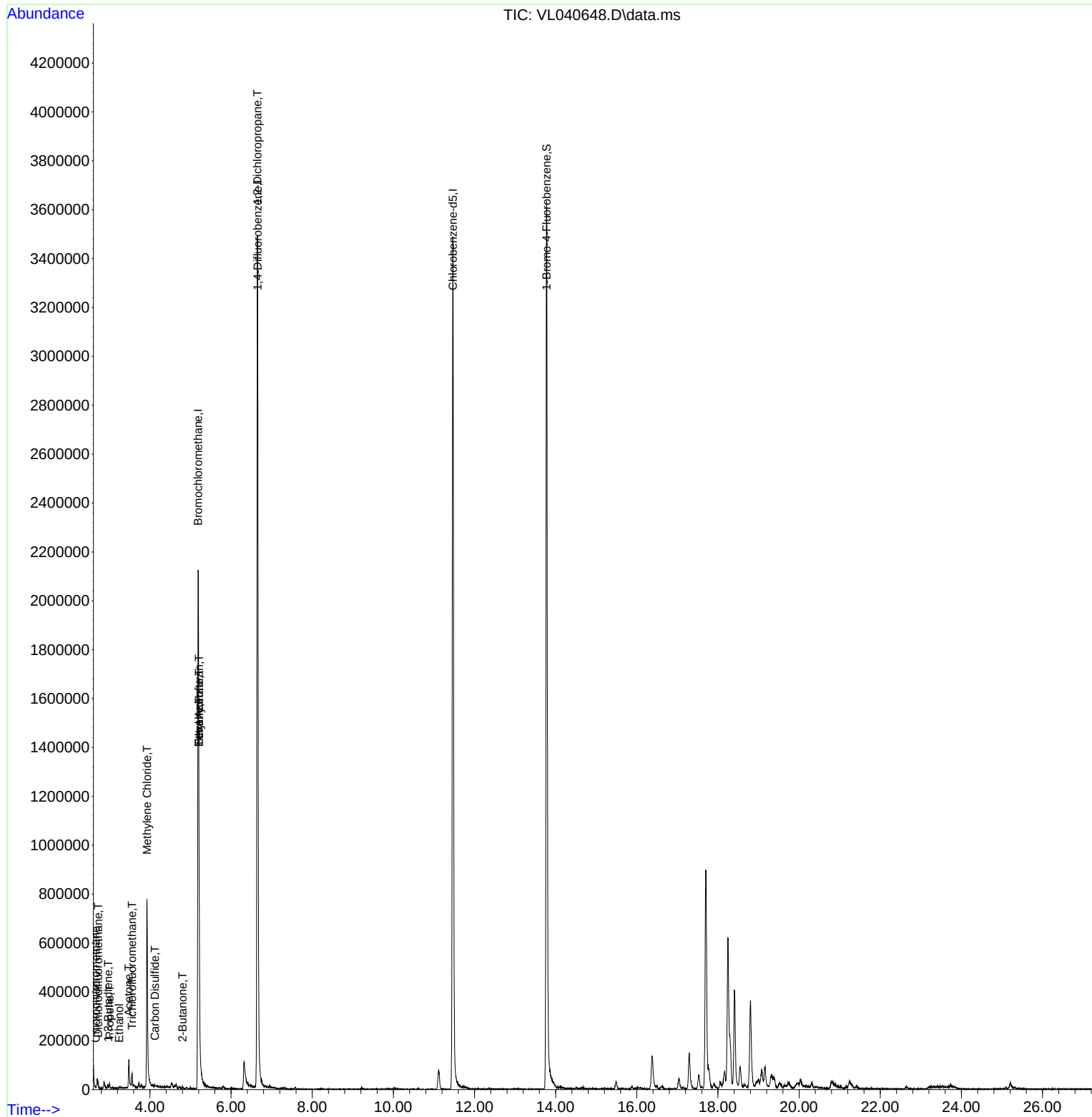
Internal Standards						
1) Bromochloromethane	5.189	49	974507	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2613288	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2232134	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1754861	9.885	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	14274	0.068	ppbv	94
3) Chlorodifluoromethane	2.668	51	5332	0.033	ppbv #	67
9) Propene	3.005	41	2956	0.060	ppbv	96
11) Trichlorofluoromethane	3.559	101	32744	0.193	ppbv	89
13) Ethanol	3.243	45	867	0.063	ppbv #	39
15) Acetone	3.478	43	119691	1.004	ppbv	95
16) 1,3-Butadiene	2.970	39	2181	0.037	ppbv #	65
20) Methylene Chloride	3.928	84	276231	4.742	ppbv	97
25) Ethyl Acetate	5.208	43	139393	0.623	ppbv #	76
26) Hexane	5.208	57	197501	1.823	ppbv #	40
27) Carbon Disulfide	4.124	76	6950	0.054	ppbv #	29
34) 2-Butanone	4.806	43	6200	0.047	ppbv #	86
39) 1,2-Dichloropropane	6.648	63	663134	8.384	ppbv #	25
41) Tetrahydrofuran	5.208	42	74227	0.997	ppbv #	48

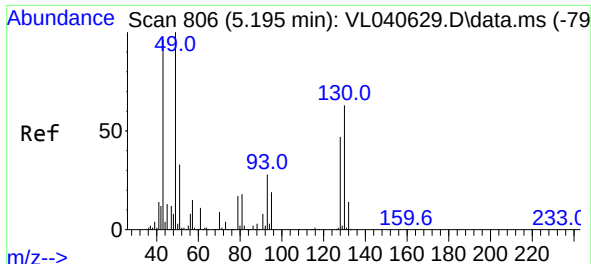
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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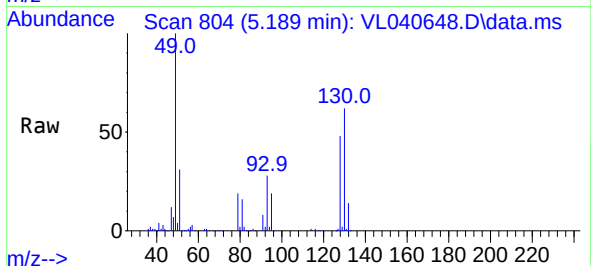
Quant Time: Sep 06 02:06:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Aug 16 05:43:50 2023
Response via : Initial Calibration



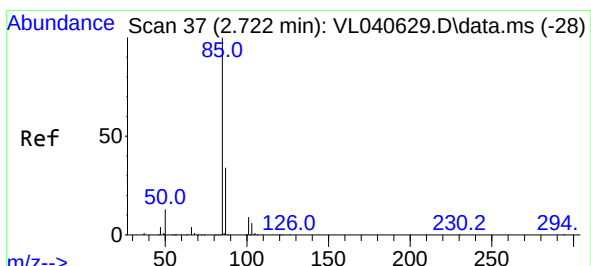
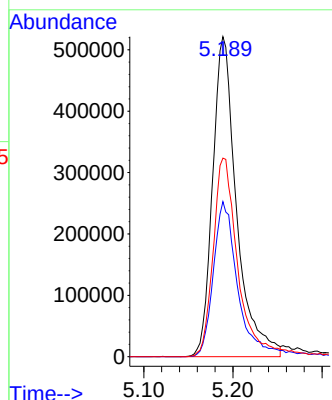
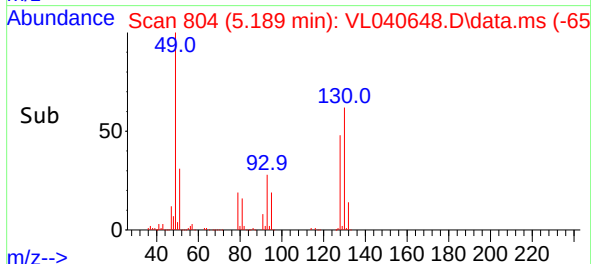


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Instrument :
MSVOA_L
ClientSampleId :

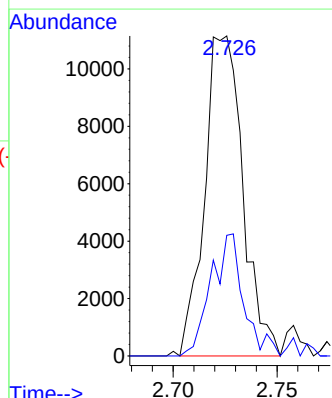
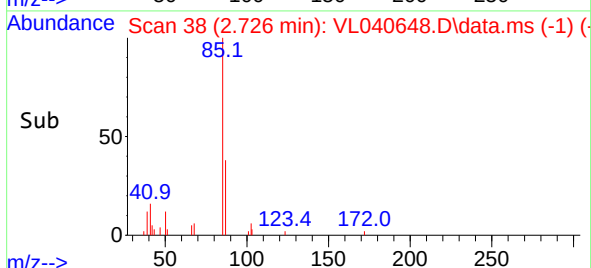
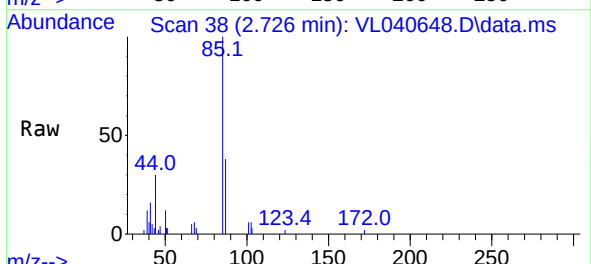


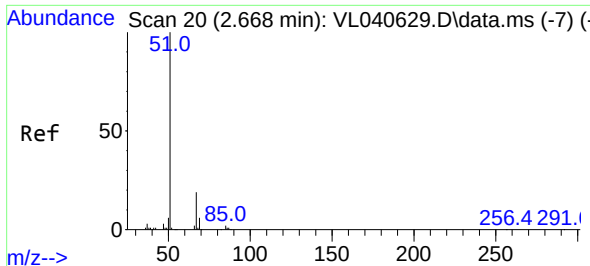
Tgt Ion: 49 Resp: 974507
Ion Ratio Lower Upper
49 100
128 51.5 24.9 74.7
130 65.0 32.2 96.6



#2
Dichlorodifluoromethane
Concen: 0.068 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.003 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Tgt Ion: 85 Resp: 14274
Ion Ratio Lower Upper
85 100
87 37.7 27.5 41.3

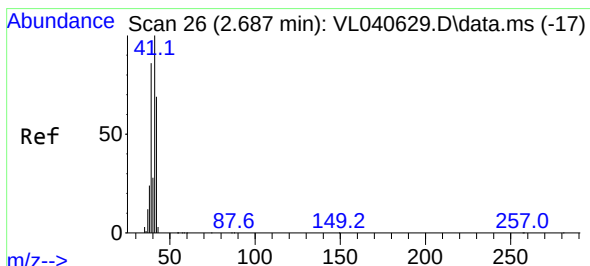
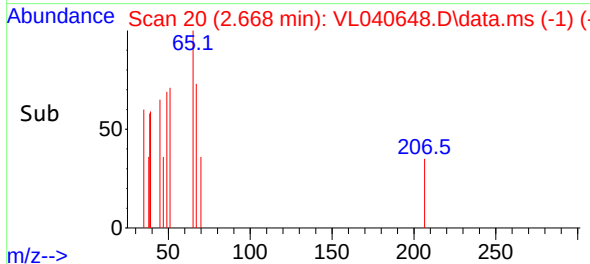
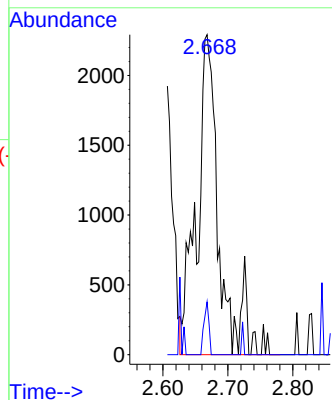
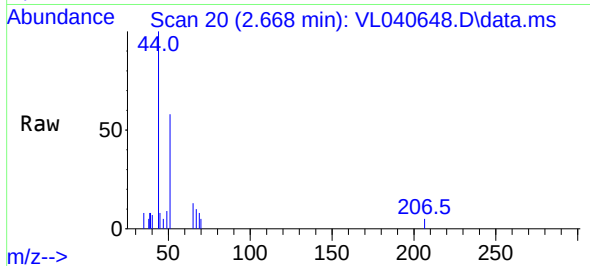




#3
Chlorodifluoromethane
Concen: 0.033 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

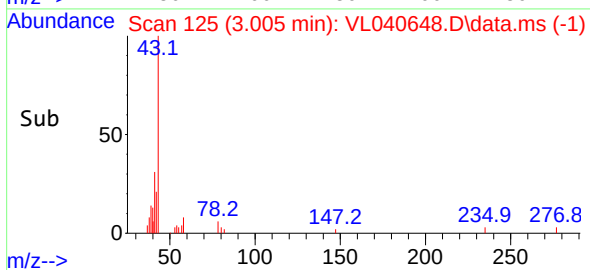
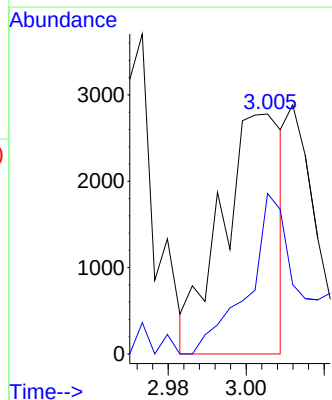
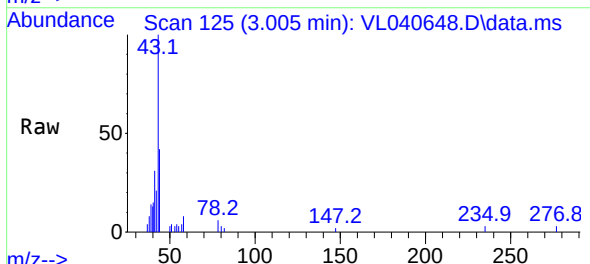
Instrument :
MSVOA_L
ClientSampleId :

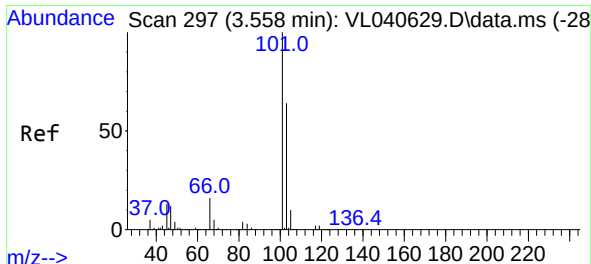
Tgt Ion: 51 Resp: 5332
Ion Ratio Lower Upper
51 100
67 3.8 15.0 22.6#



#9
Propene
Concen: 0.060 ppbv
RT: 3.005 min Scan# 125
Delta R.T. 0.318 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Tgt Ion: 41 Resp: 2956
Ion Ratio Lower Upper
41 100
42 67.4 56.5 84.7

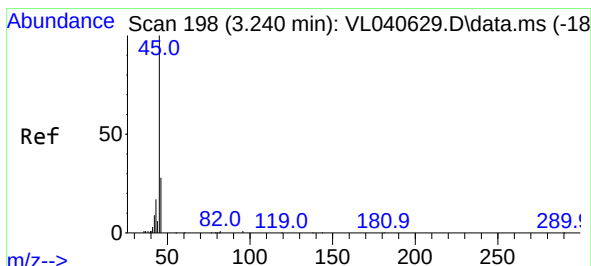
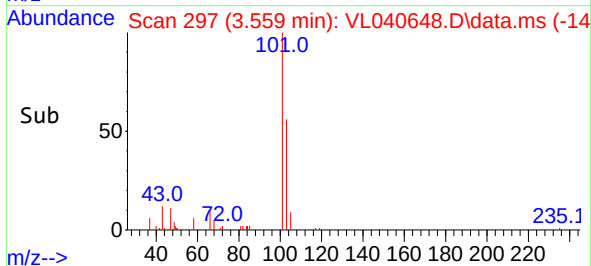
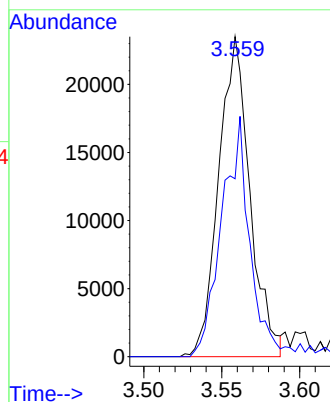
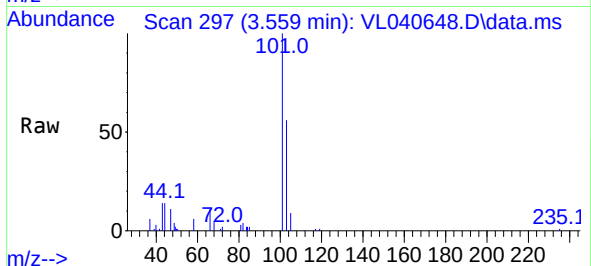




#11
 Trichlorofluoromethane
 Concen: 0.193 ppbv
 RT: 3.559 min Scan# 297
 Delta R.T. 0.000 min
 Lab File: VL040648.D
 Acq: 5 Sep 2023 15:26

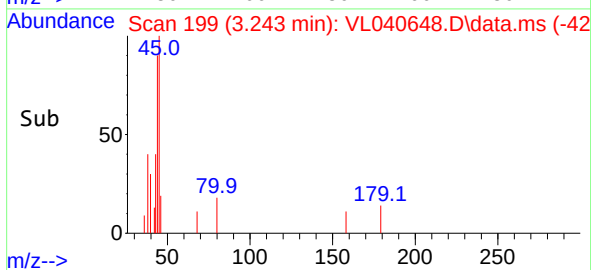
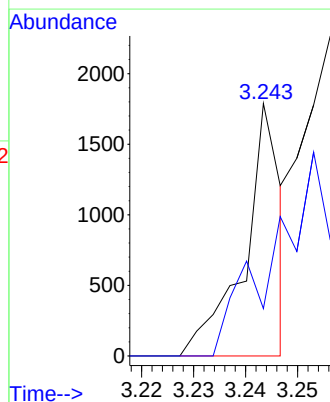
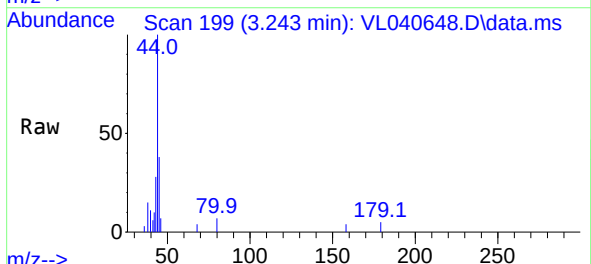
Instrument :
 MSVOA_L
 ClientSampleId :

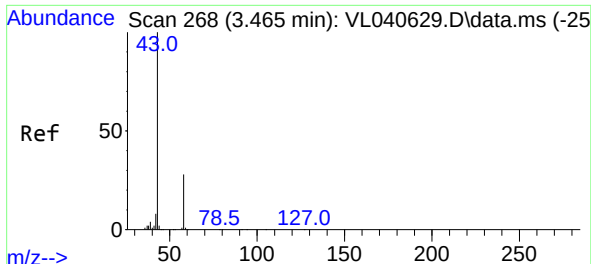
Tgt Ion:101 Resp: 32744
 Ion Ratio Lower Upper
 101 100
 103 55.6 51.1 76.7



#13
 Ethanol
 Concen: 0.063 ppbv
 RT: 3.243 min Scan# 199
 Delta R.T. 0.003 min
 Lab File: VL040648.D
 Acq: 5 Sep 2023 15:26

Tgt Ion: 45 Resp: 867
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.2 56.6#

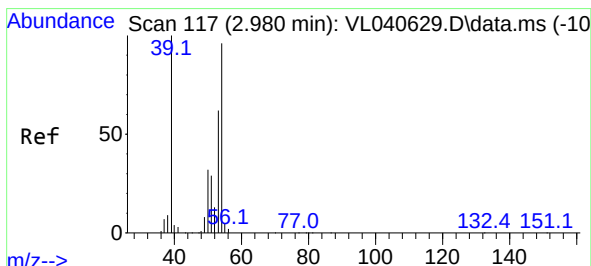
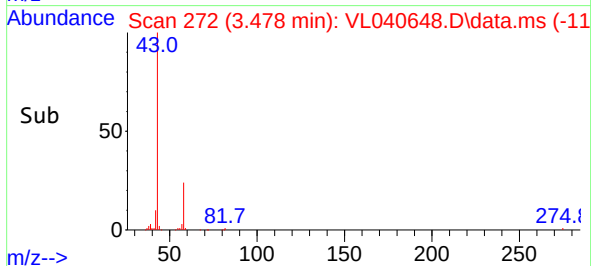
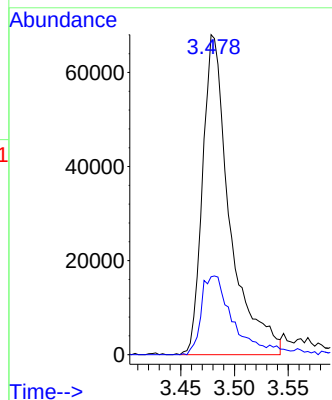
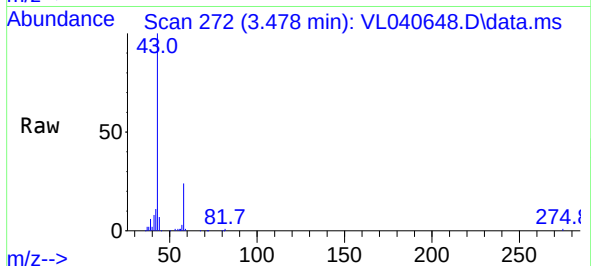




#15
Acetone
Concen: 1.004 ppbv
RT: 3.478 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

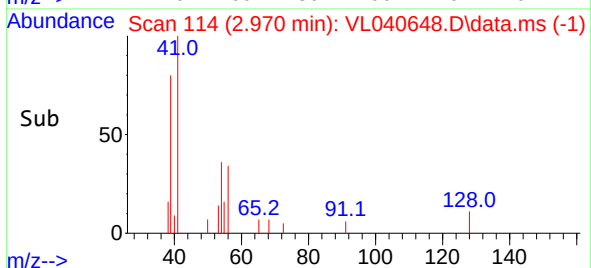
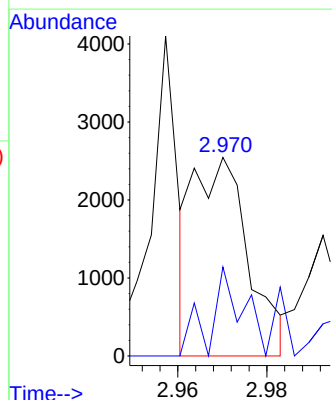
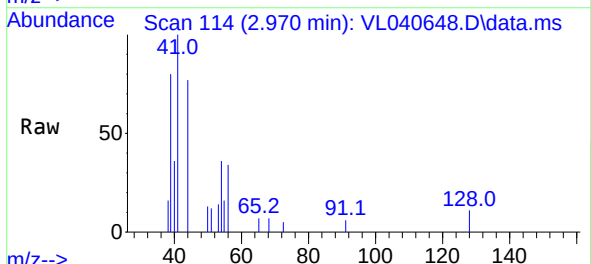
Instrument :
MSVOA_L
ClientSampleId :

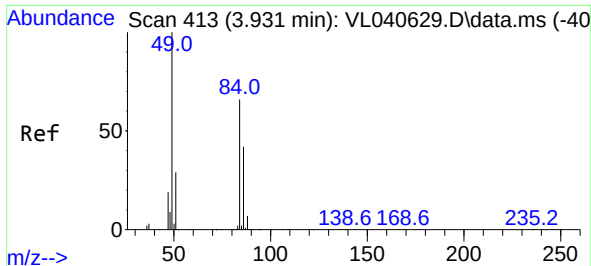
Tgt Ion: 43 Resp: 119691
Ion Ratio Lower Upper
43 100
58 30.4 22.4 33.6



#16
1,3-Butadiene
Concen: 0.037 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.010 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

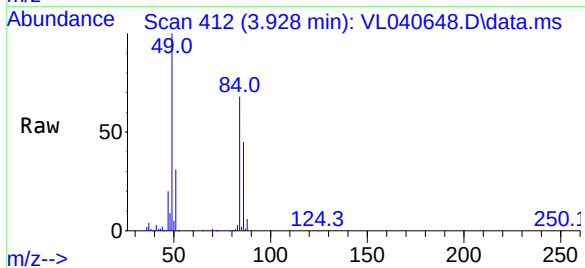
Tgt Ion: 39 Resp: 2181
Ion Ratio Lower Upper
39 100
54 51.5 66.6 99.8#





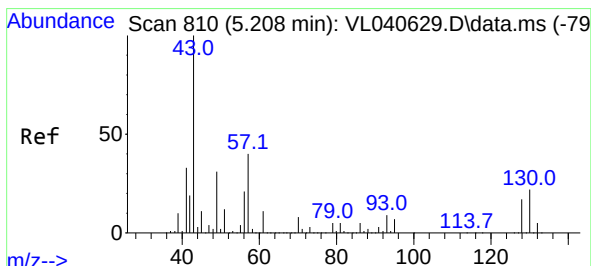
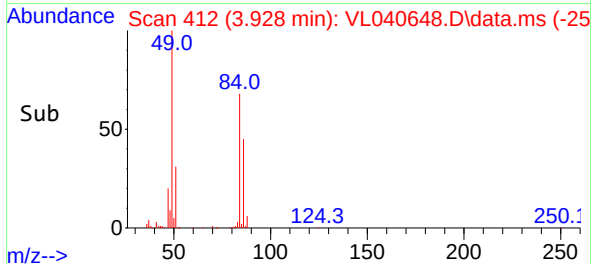
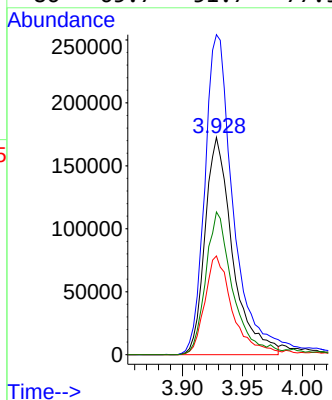
#20
Methylene Chloride
Concen: 4.742 ppbv
RT: 3.928 min Scan# 413
Delta R.T. -0.003 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 276231

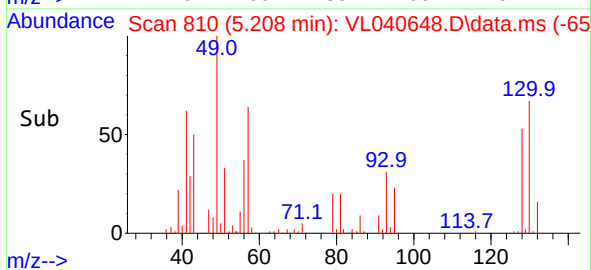
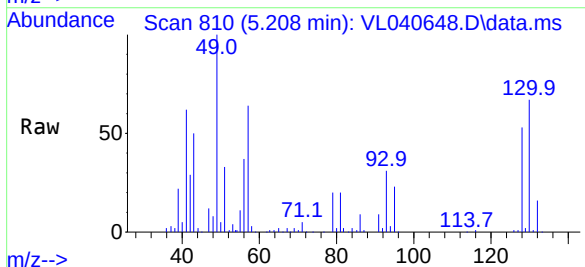
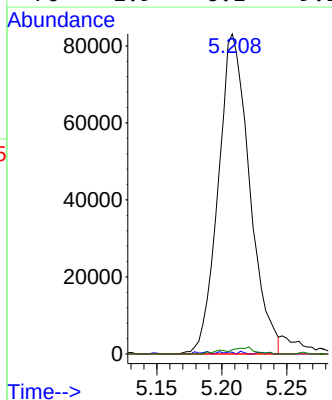
Ion	Ratio	Lower	Upper
84	100		
49	147.2	122.1	183.1
51	45.5	35.4	53.2
86	65.7	51.7	77.5

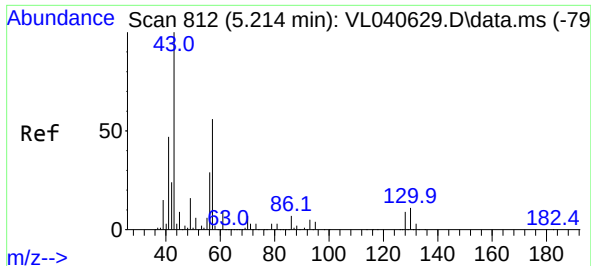


#25
Ethyl Acetate
Concen: 0.623 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Tgt Ion: 43 Resp: 139393

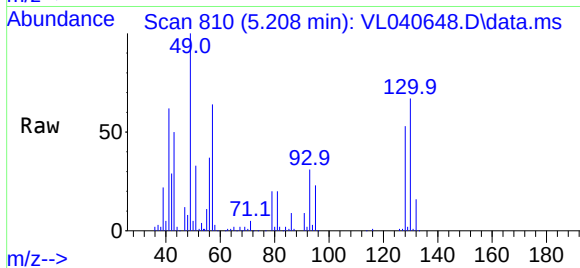
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.2	12.4#
61	0.0	8.3	12.5#
70	1.9	6.1	9.1#



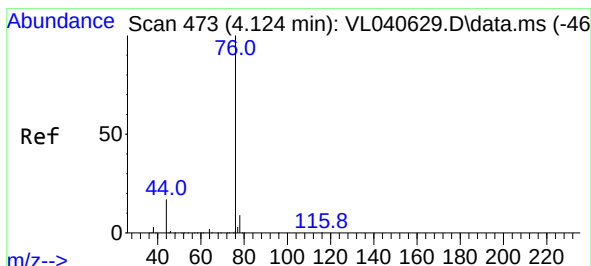
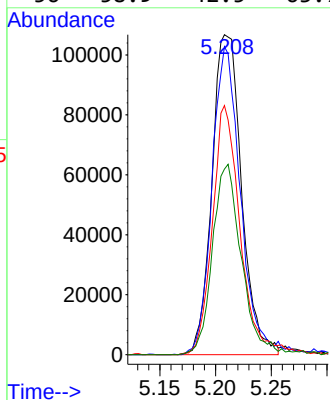
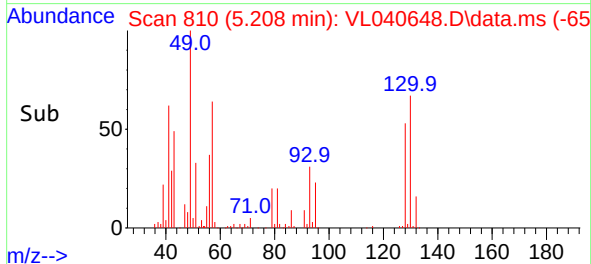


#26
Hexane
Concen: 1.823 ppbv
RT: 5.208 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

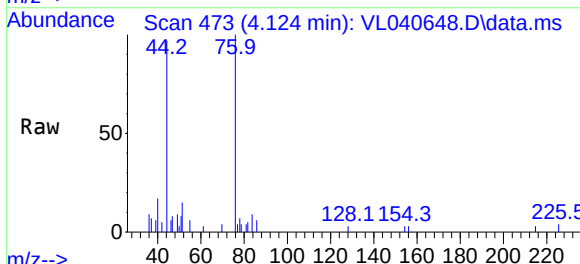
Instrument :
MSVOA_L
ClientSampleId :



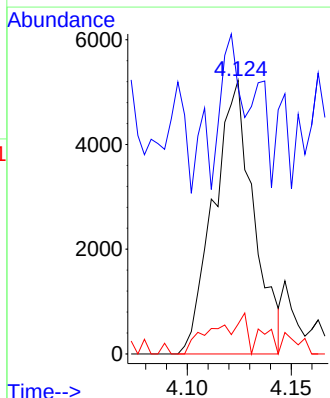
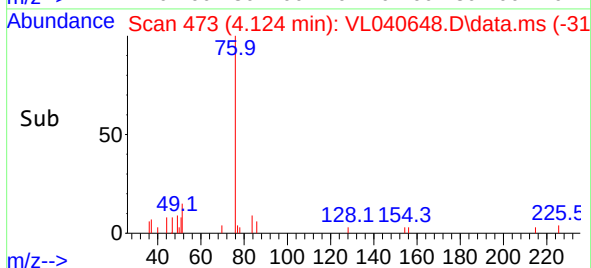
Tgt Ion: 57 Resp: 197501
Ion Ratio Lower Upper
57 100
41 94.5 69.3 103.9
43 73.6 177.9 266.9#
56 58.9 42.5 63.7

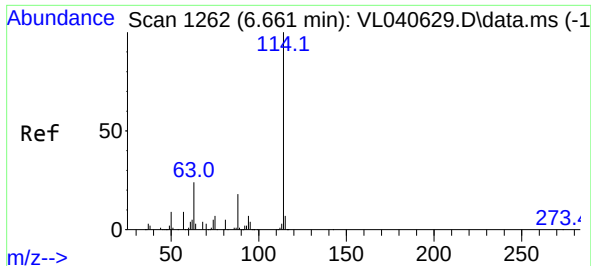


#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 4.124 min Scan# 473
Delta R.T. 0.000 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26



Tgt Ion: 76 Resp: 6950
Ion Ratio Lower Upper
76 100
44 63.4 14.3 21.5#
78 11.9 7.4 11.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040648.D

Acq: 5 Sep 2023 15:26

Instrument :

MSVOA_L

ClientSampleId :

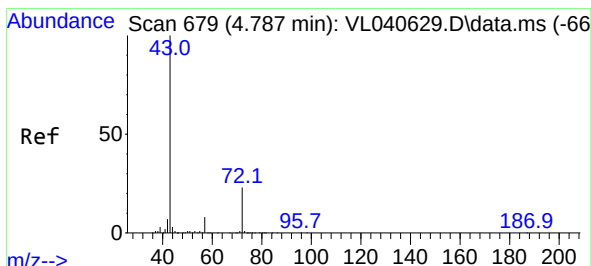
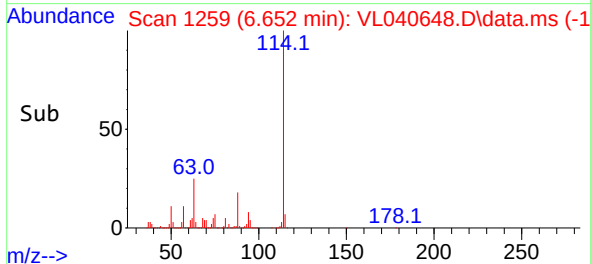
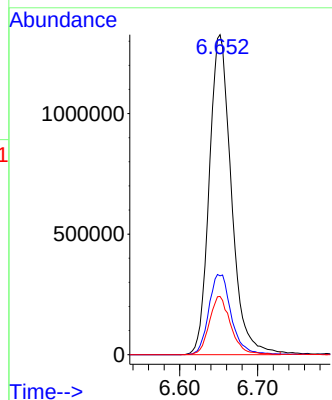
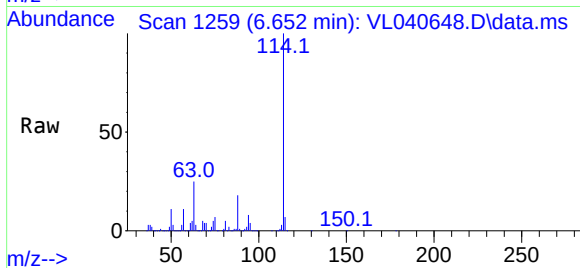
Tgt Ion:114 Resp: 2613288

Ion Ratio Lower Upper

114 100

63 25.8 20.2 30.2

88 17.8 14.1 21.1



#34

2-Butanone

Concen: 0.047 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.019 min

Lab File: VL040648.D

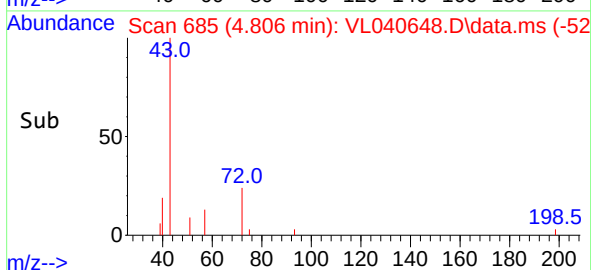
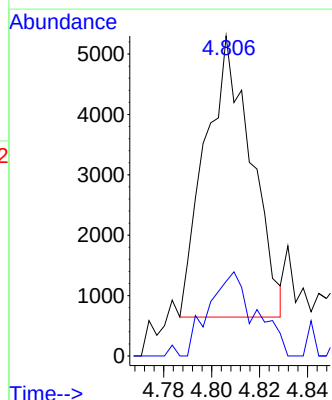
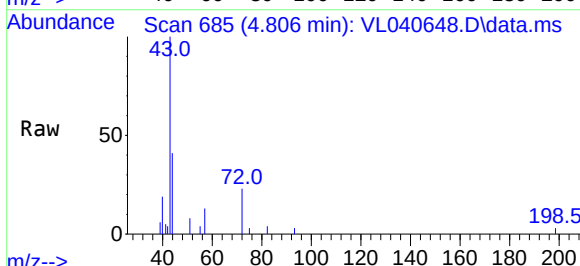
Acq: 5 Sep 2023 15:26

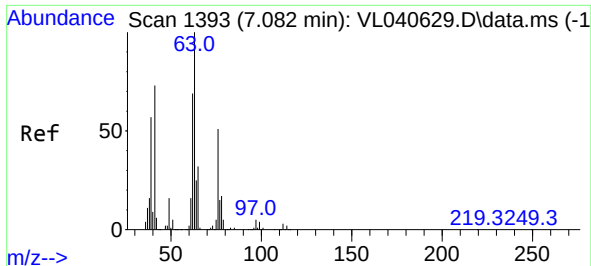
Tgt Ion: 43 Resp: 6200

Ion Ratio Lower Upper

43 100

72 30.8 19.2 28.8#





#39

1,2-Dichloropropane

Concen: 8.384 ppbv

RT: 6.648 min Scan# 1

Delta R.T. -0.434 min

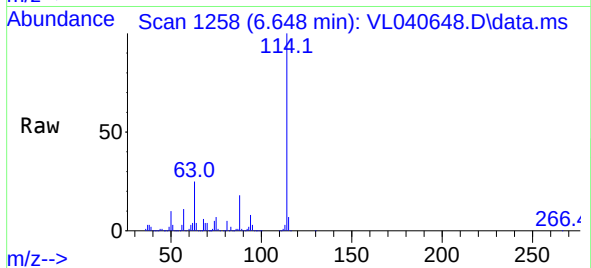
Lab File: VL040648.D

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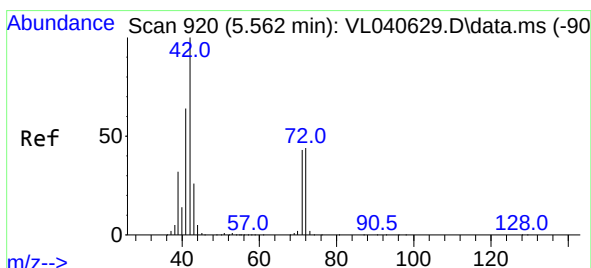
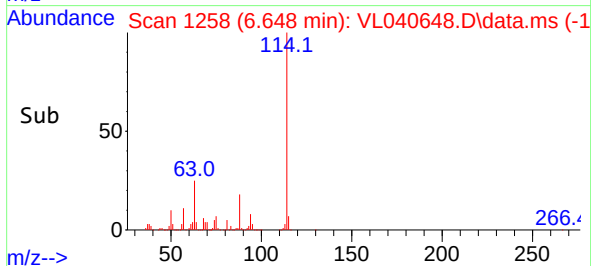
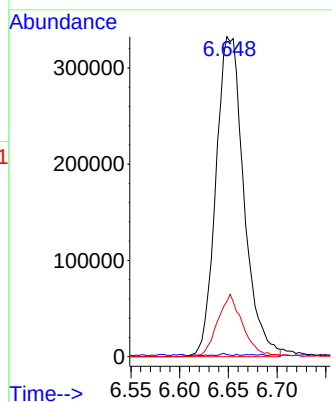
Tgt Ion: 63 Resp: 663134

Ion Ratio Lower Upper

63 100

41 0.2 58.2 87.2#

62 17.3 55.0 82.4#



#41

Tetrahydrofuran

Concen: 0.997 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.354 min

Lab File: VL040648.D

Acq: 5 Sep 2023 15:26

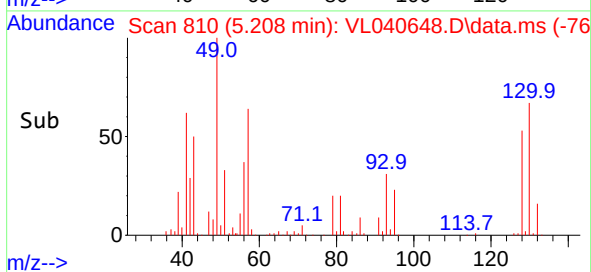
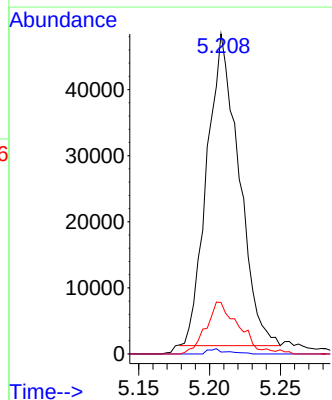
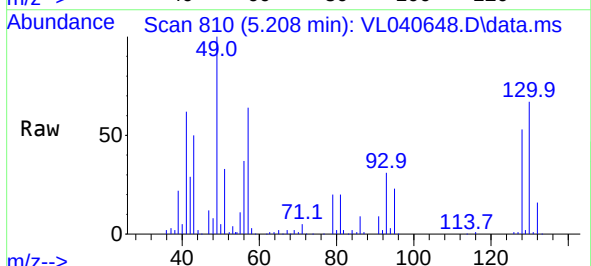
Tgt Ion: 42 Resp: 74227

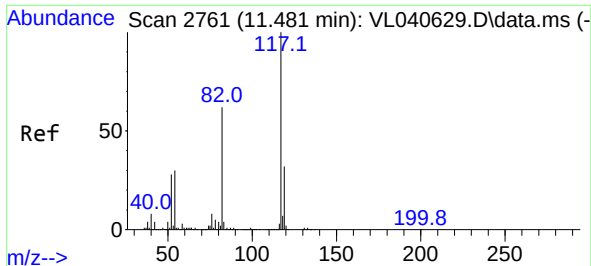
Ion Ratio Lower Upper

42 100

72 1.0 34.2 51.4#

71 17.3 33.4 50.0#

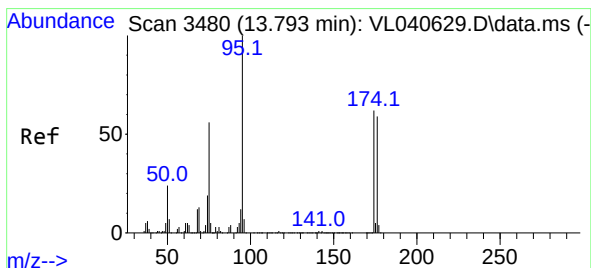
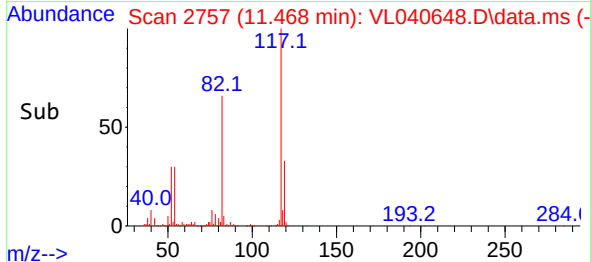
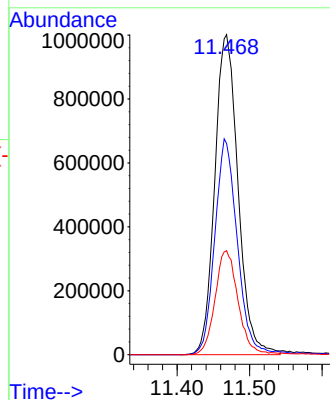
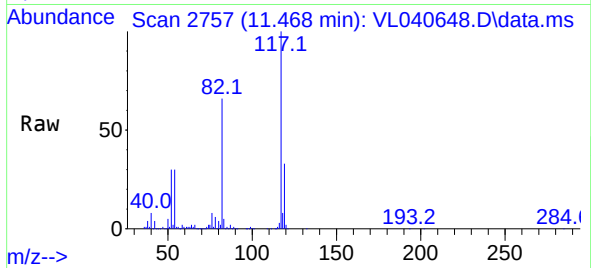




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2232134
Ion Ratio Lower Upper
117 100
82 66.0 49.5 74.3
119 32.6 24.5 36.7



#68
1-Bromo-4-Fluorobenzene
Concen: 9.885 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.016 min
Lab File: VL040648.D
Acq: 5 Sep 2023 15:26

Tgt Ion: 95 Resp: 1754861
Ion Ratio Lower Upper
95 100
174 61.9 49.1 73.7
175 4.6 3.7 5.5

