

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041446.D
 Acq On : 30 Jul 2024 2:31
 Operator : SY/MD
 Sample : P3342-08DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 2DL

Quant Time: Jul 30 06:47:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

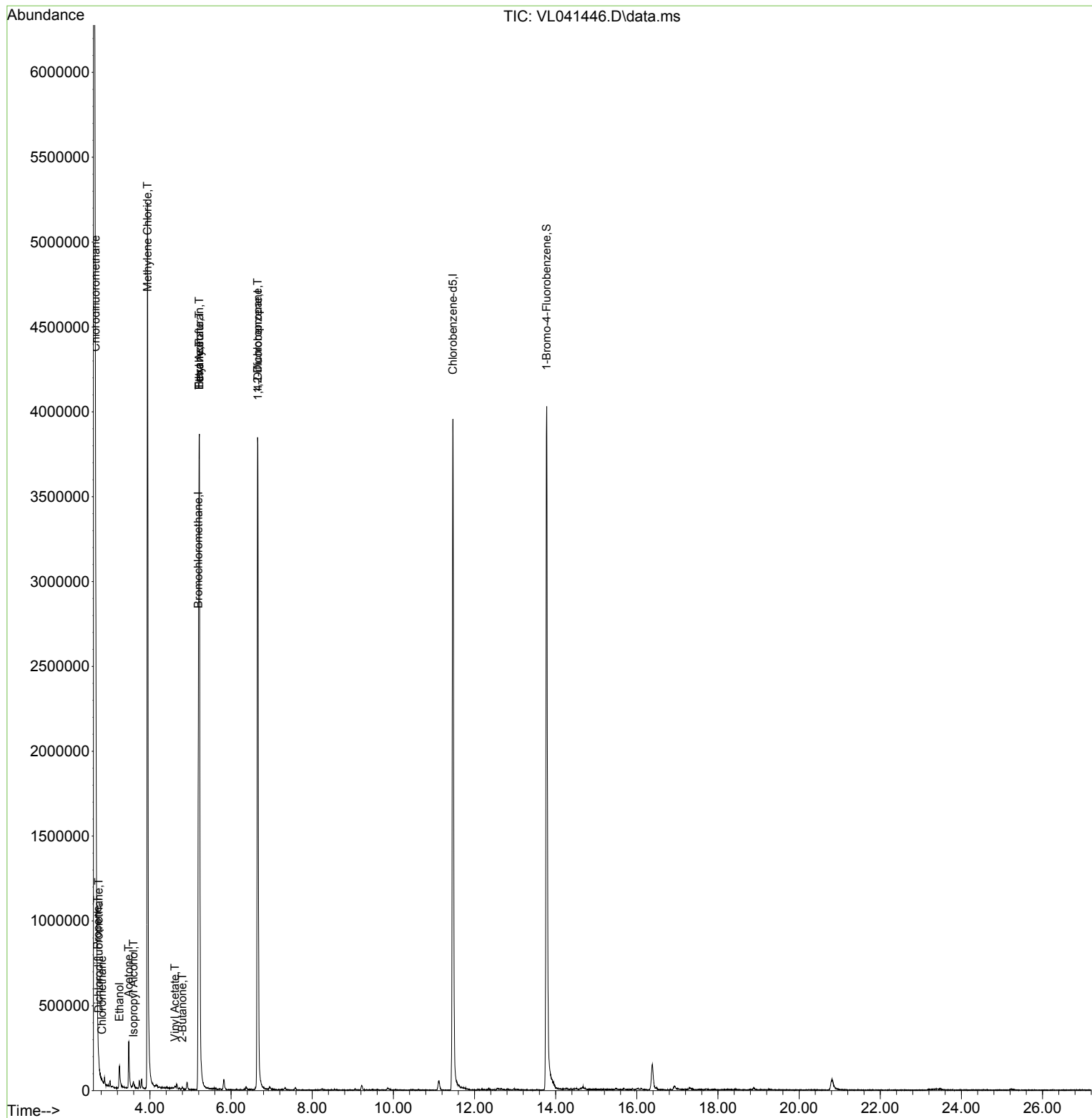
Internal Standards						
1) Bromochloromethane	5.195	49	1087741	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.658	114	2913852	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.468	117	2636037	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2032284	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.739	85	19415	0.104	ppbv	90
3) Chlorodifluoromethane	2.658	51	59214	0.457	ppbv #	65
4) Chloromethane	2.819	50	7068	0.103	ppbv	97
9) Propene	2.703	41	15535	0.261	ppbv	93
13) Ethanol	3.250	45	145615	27.389	ppbv	91
15) Acetone	3.478	43	281429	2.277	ppbv	100
19) Isopropyl Alcohol	3.594	45	33670	0.466	ppbv #	82
20) Methylene Chloride	3.941	84	1652724	35.861	ppbv	98
23) Vinyl Acetate	4.620	43	9851	0.104	ppbv #	90
25) Ethyl Acetate	5.218	43	939808	3.828	ppbv #	76
26) Hexane	5.218	57	1343194	13.188	ppbv #	37
34) 2-Butanone	4.800	43	10101	0.072	ppbv #	63
39) 1,2-Dichloropropane	6.655	63	724587	8.889	ppbv #	25
41) Tetrahydrofuran	5.218	42	513608	6.371	ppbv #	49

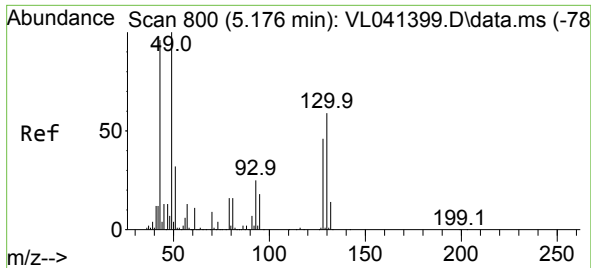
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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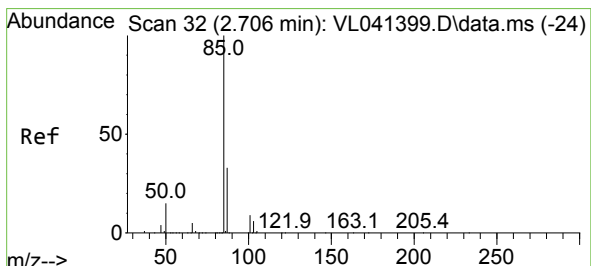
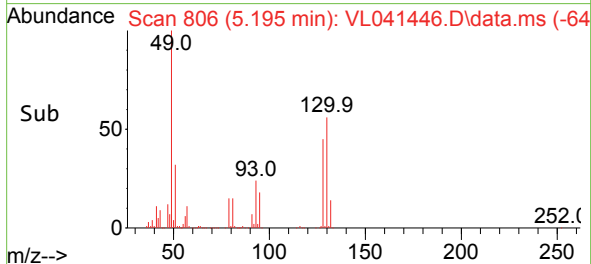
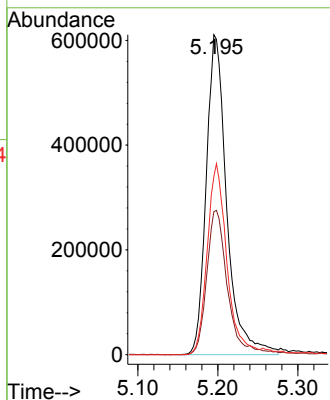
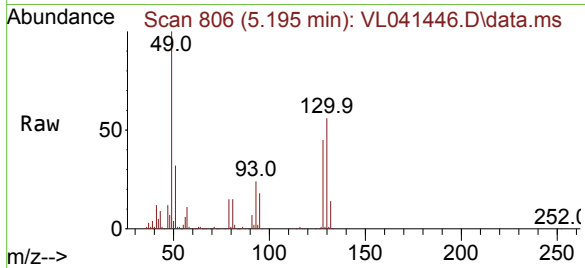




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

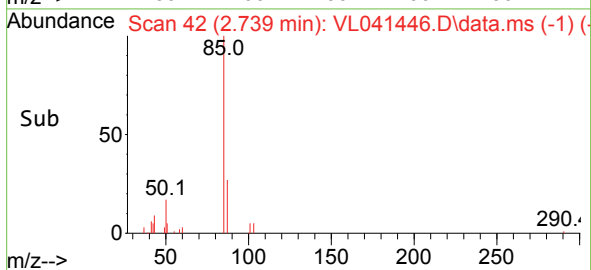
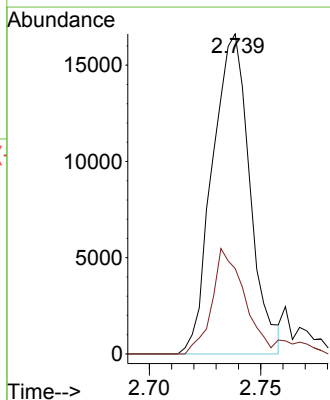
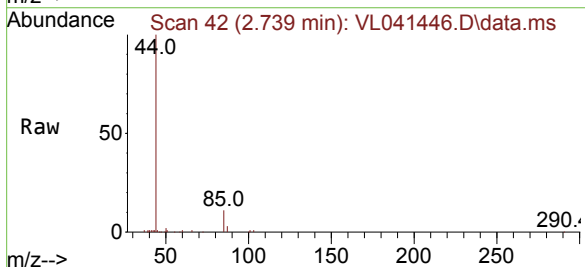
Instrument :
MSVOA_L
ClientSampleId :
2DL

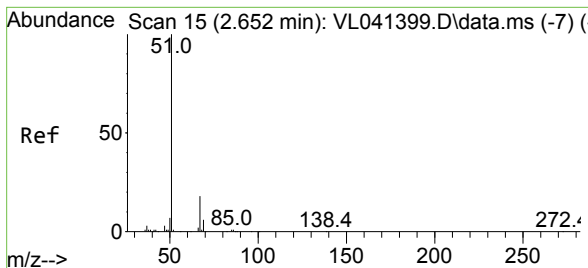
Tgt Ion: 49 Resp: 1087741
Ion Ratio Lower Upper
49 100
128 47.3 23.8 71.4
130 58.9 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.104 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.029 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Tgt Ion: 85 Resp: 19415
Ion Ratio Lower Upper
85 100
87 26.7 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.457 ppbv

RT: 2.658 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041446.D

Acq: 30 Jul 2024 2:31

Instrument :

MSVOA_L

ClientSampleId :

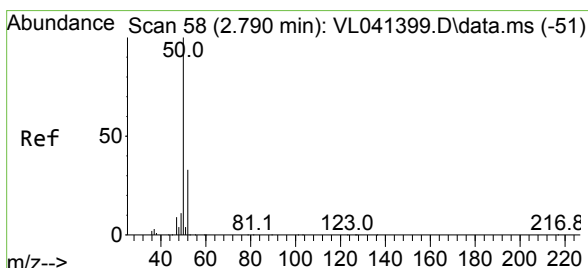
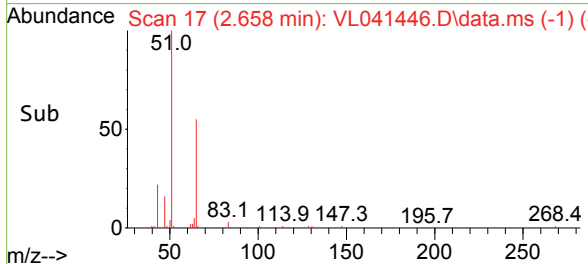
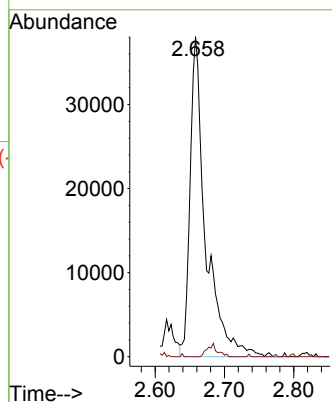
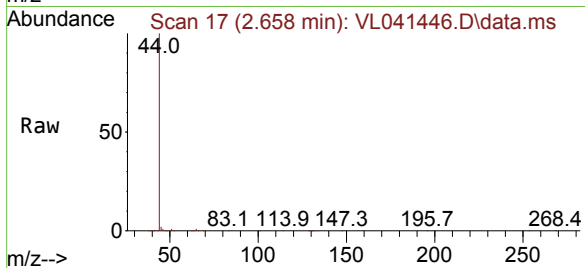
2DL

Tgt Ion: 51 Resp: 59214

Ion Ratio Lower Upper

51 100

67 2.6 14.5 21.7#



#4

Chloromethane

Concen: 0.103 ppbv

RT: 2.819 min Scan# 67

Delta R.T. 0.026 min

Lab File: VL041446.D

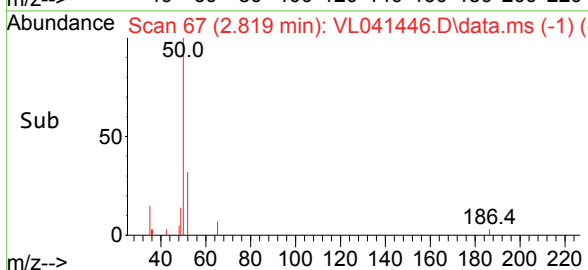
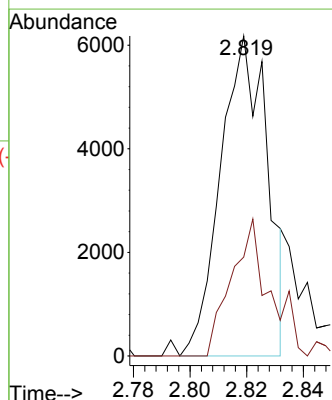
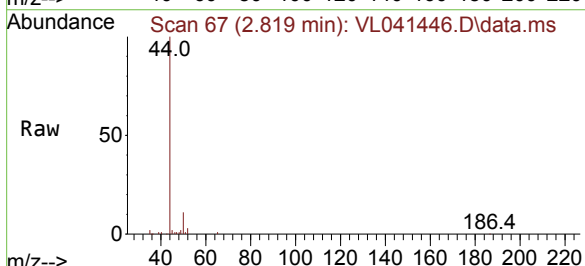
Acq: 30 Jul 2024 2:31

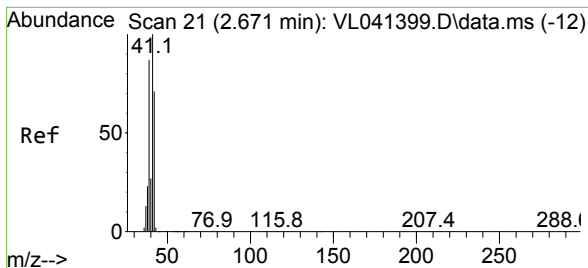
Tgt Ion: 50 Resp: 7068

Ion Ratio Lower Upper

50 100

52 30.9 26.1 39.1





#9

Propene

Concen: 0.261 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.032 min

Lab File: VL041446.D

Acq: 30 Jul 2024 2:31

Instrument :

MSVOA_L

ClientSampleId :

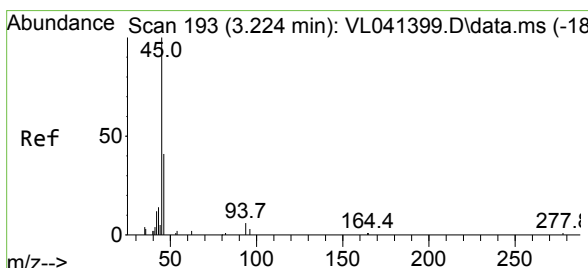
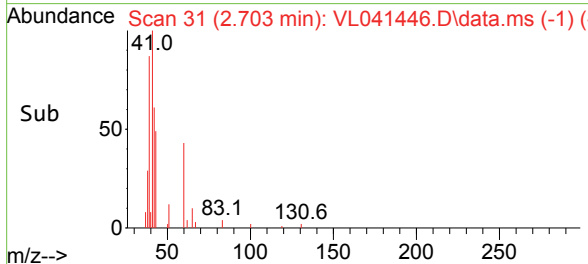
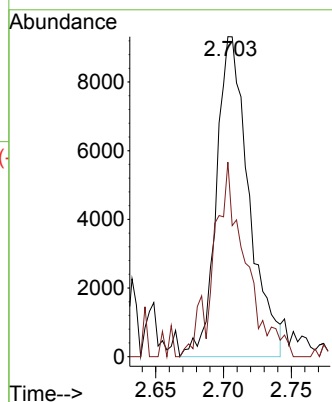
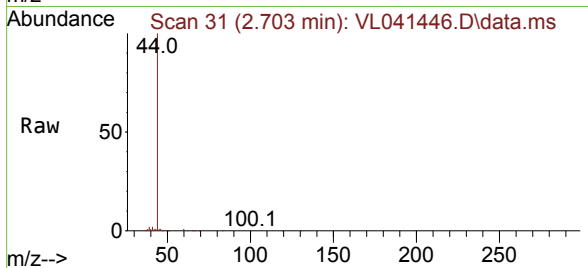
2DL

Tgt Ion: 41 Resp: 15535

Ion Ratio Lower Upper

41 100

42 63.8 55.9 83.9



#13

Ethanol

Concen: 27.389 ppbv

RT: 3.250 min Scan# 201

Delta R.T. 0.023 min

Lab File: VL041446.D

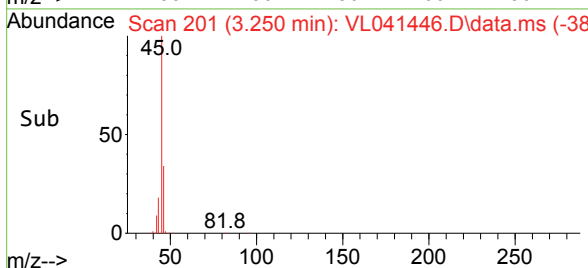
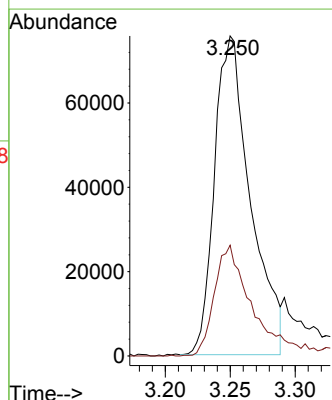
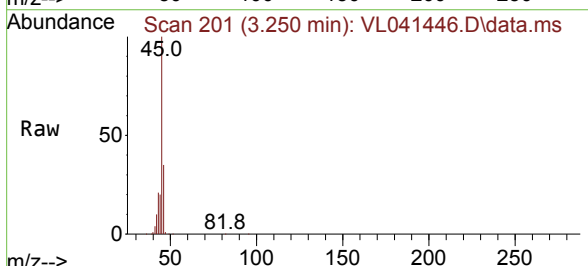
Acq: 30 Jul 2024 2:31

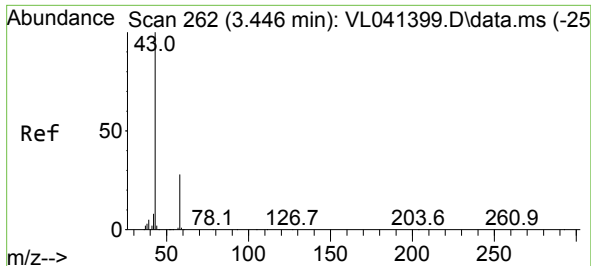
Tgt Ion: 45 Resp: 145615

Ion Ratio Lower Upper

45 100

46 38.5 13.4 53.4

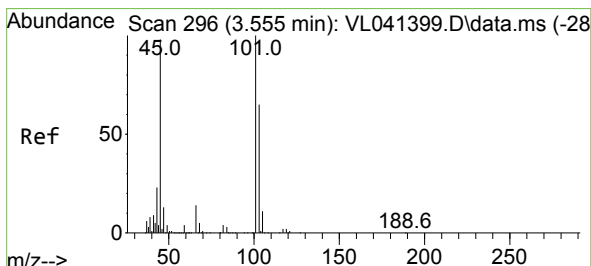
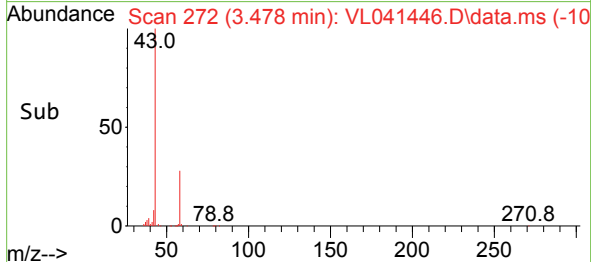
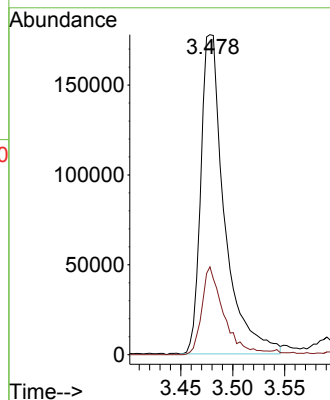
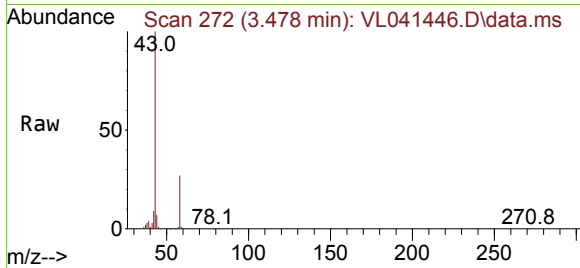




#15
Acetone
Concen: 2.277 ppbv
RT: 3.478 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

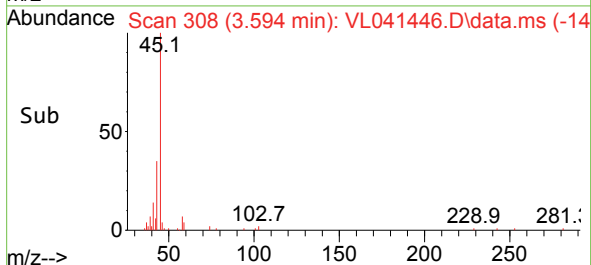
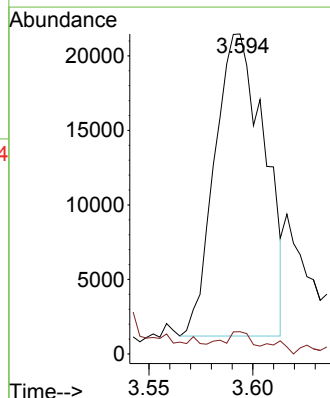
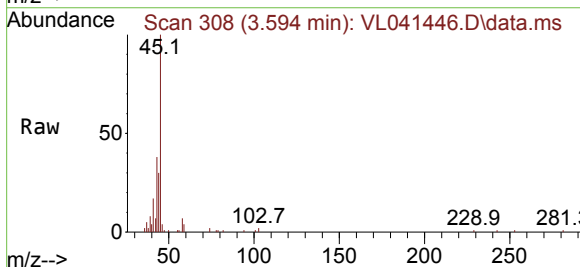
Instrument :
MSVOA_L
ClientSampleId :
2DL

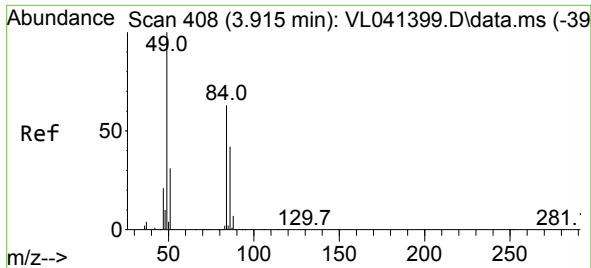
Tgt Ion: 43 Resp: 281429
Ion Ratio Lower Upper
43 100
58 26.6 21.4 32.2



#19
Isopropyl Alcohol
Concen: 0.466 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.032 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Tgt Ion: 45 Resp: 33670
Ion Ratio Lower Upper
45 100
58 8.4 1.9 2.9#



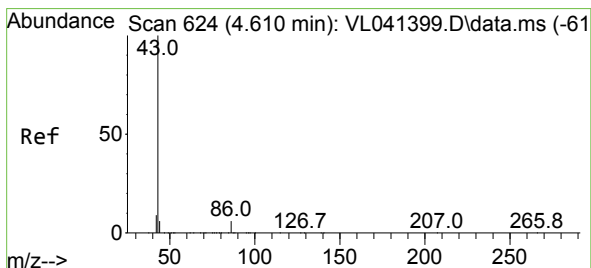
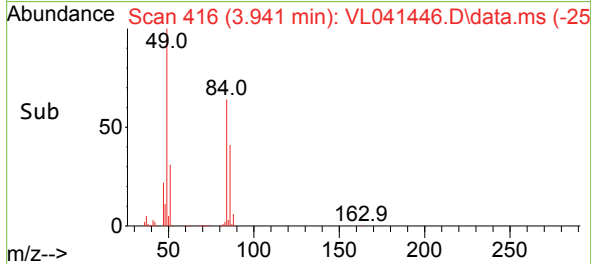
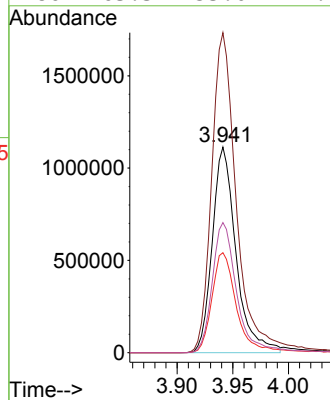
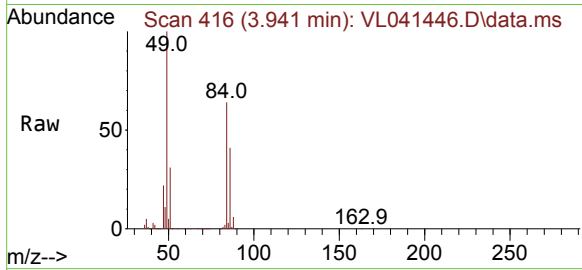


#20
Methylene Chloride
Concen: 35.861 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.023 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Instrument :
MSVOA_L
ClientSampleId :
2DL

Tgt Ion: 84 Resp: 1652724

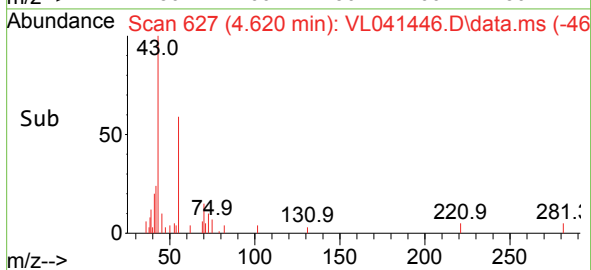
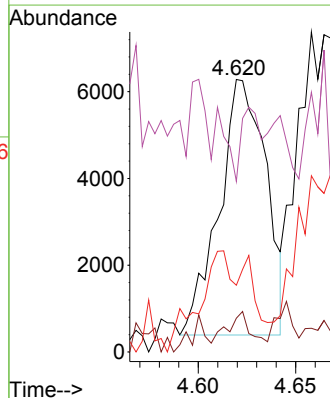
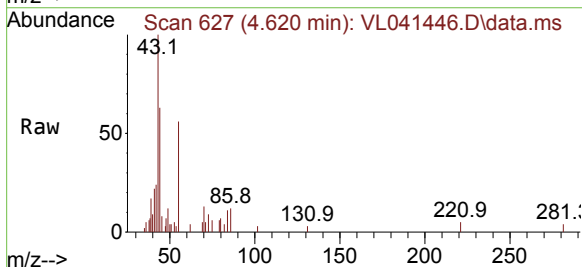
Ion	Ratio	Lower	Upper
84	100		
49	155.7	126.6	190.0
51	48.6	38.6	58.0
86	63.3	53.0	79.4

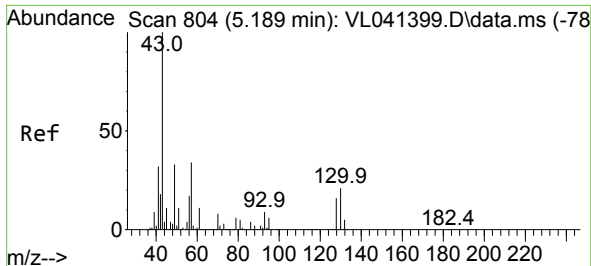


#23
Vinyl Acetate
Concen: 0.104 ppbv
RT: 4.620 min Scan# 627
Delta R.T. 0.006 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Tgt Ion: 43 Resp: 9851

Ion	Ratio	Lower	Upper
43	100		
86	10.4	4.6	6.8#
42	11.9	7.9	11.9#
44	0.0	4.2	6.4#

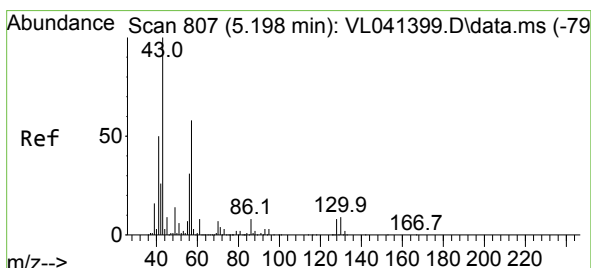
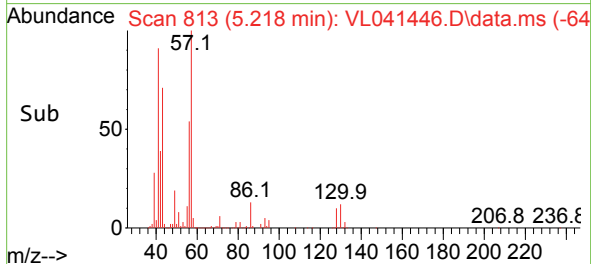
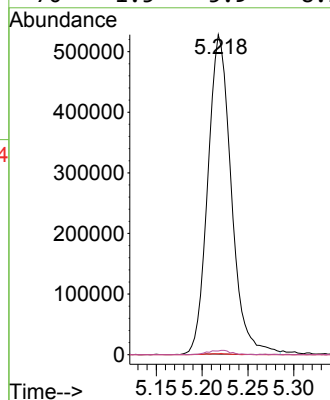
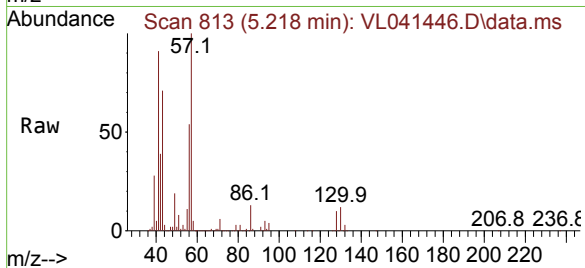




#25
Ethyl Acetate
Concen: 3.828 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.026 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

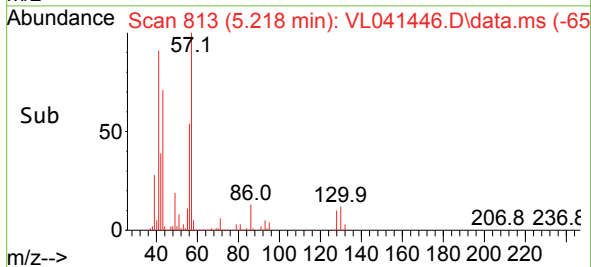
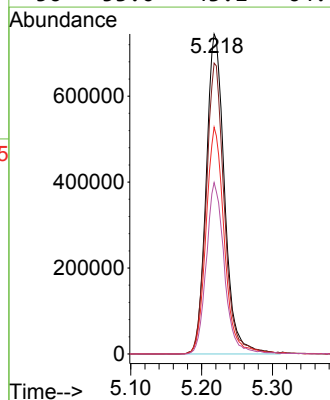
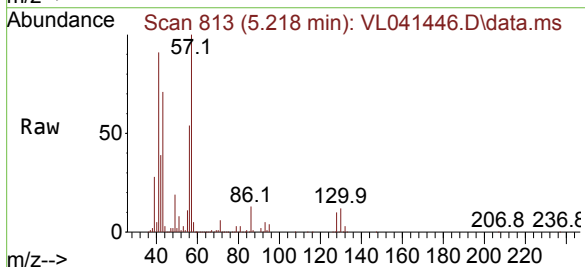
Instrument :
MSVOA_L
ClientSampleId :
2DL

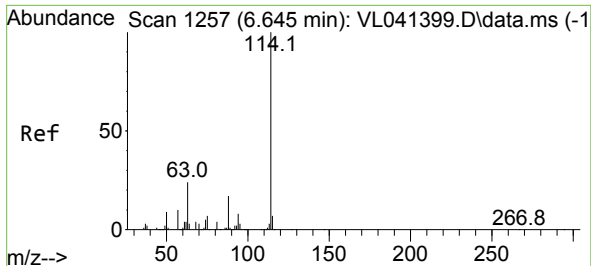
Tgt Ion: 43 Resp: 939808
Ion Ratio Lower Upper
43 100
45 0.4 8.5 12.7#
61 0.3 8.0 12.0#
70 1.5 5.9 8.9#



#26
Hexane
Concen: 13.188 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.019 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Tgt Ion: 57 Resp: 1343194
Ion Ratio Lower Upper
57 100
41 90.6 74.0 111.0
43 70.9 193.6 290.4#
56 53.0 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL041446.D

Acq: 30 Jul 2024 2:31

Instrument :

MSVOA_L

ClientSampleId :

2DL

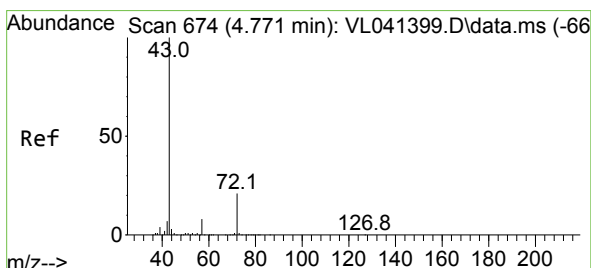
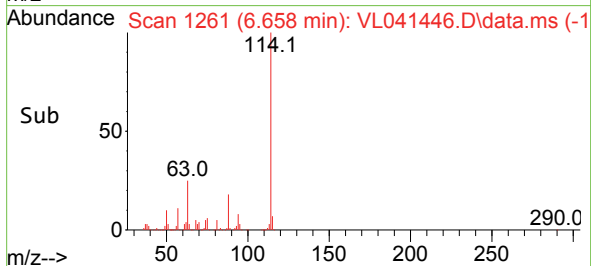
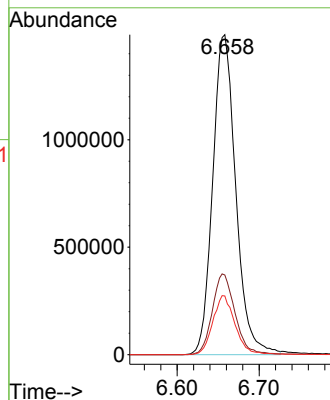
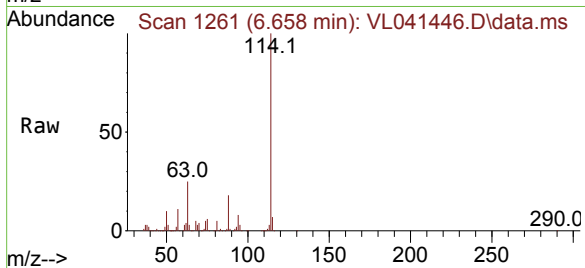
Tgt Ion:114 Resp: 2913852

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.072 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.026 min

Lab File: VL041446.D

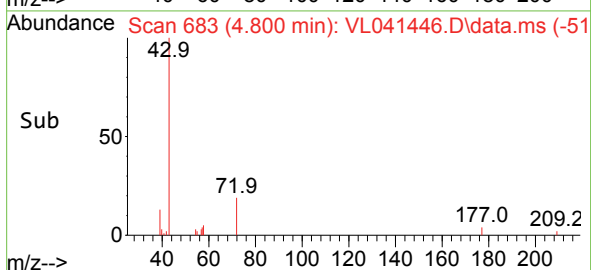
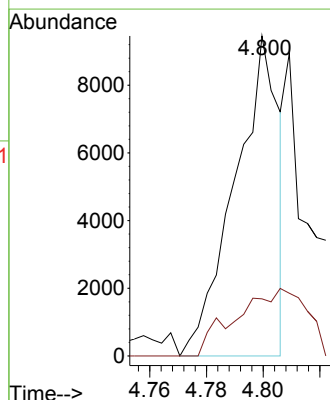
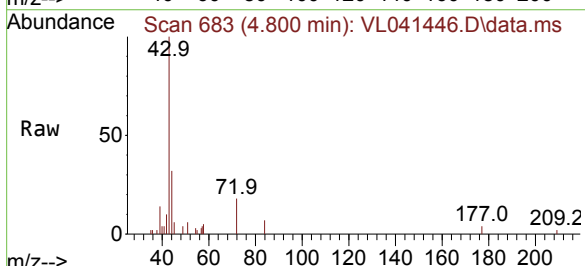
Acq: 30 Jul 2024 2:31

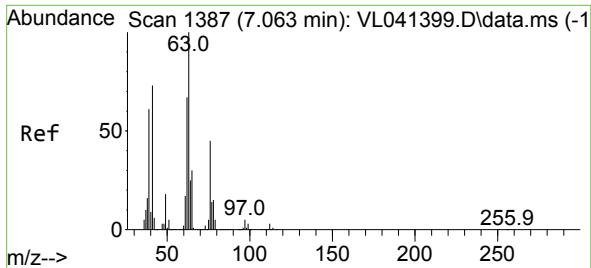
Tgt Ion: 43 Resp: 10101

Ion Ratio Lower Upper

43 100

72 39.1 17.3 25.9#





#39

1,2-Dichloropropane

Concen: 8.889 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL041446.D

Acq: 30 Jul 2024 2:31

Instrument :

MSVOA_L

ClientSampleId :

2DL

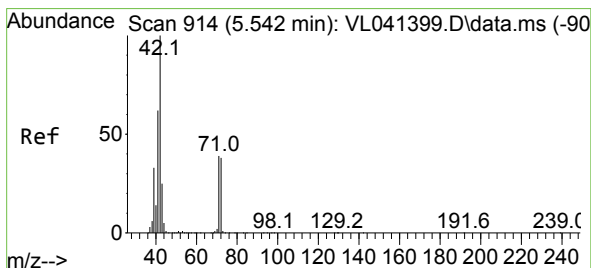
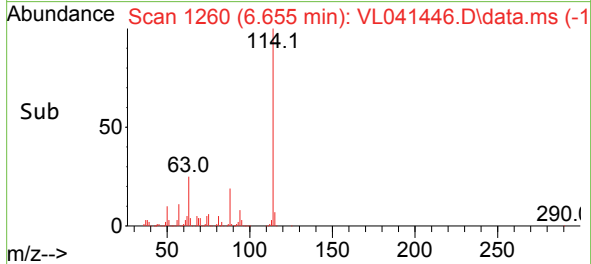
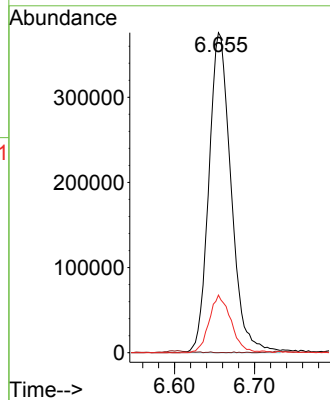
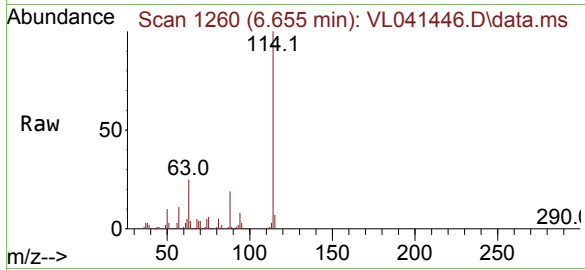
Tgt Ion: 63 Resp: 724587

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 18.0 53.9 80.9#



#41

Tetrahydrofuran

Concen: 6.371 ppbv

RT: 5.218 min Scan# 813

Delta R.T. -0.328 min

Lab File: VL041446.D

Acq: 30 Jul 2024 2:31

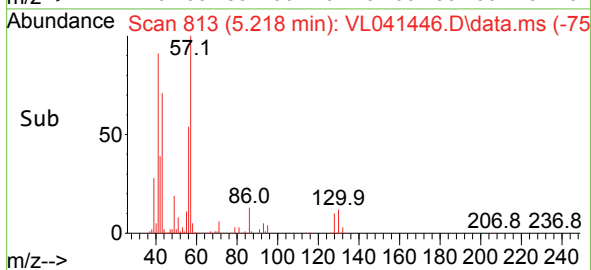
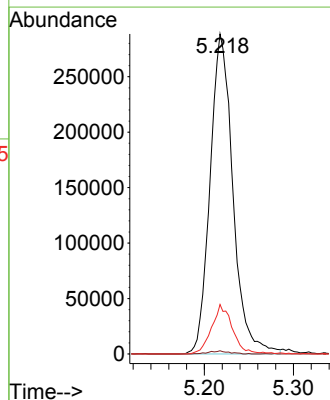
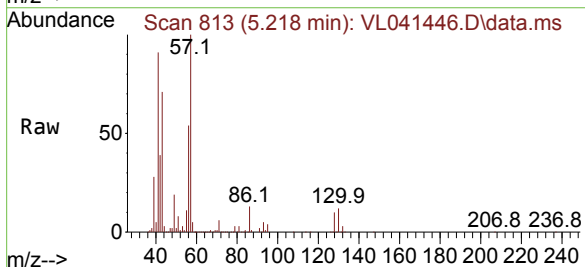
Tgt Ion: 42 Resp: 513608

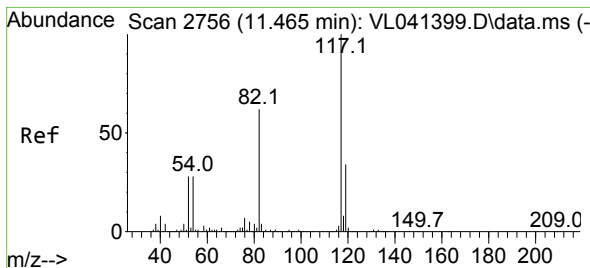
Ion Ratio Lower Upper

42 100

72 0.9 31.2 46.8#

71 14.3 30.5 45.7#

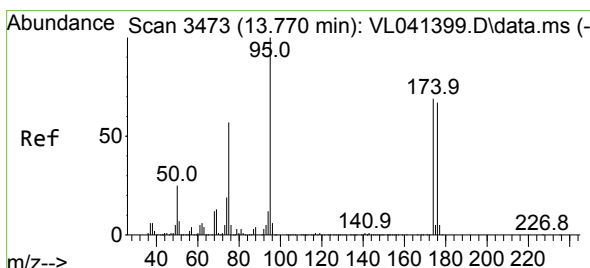
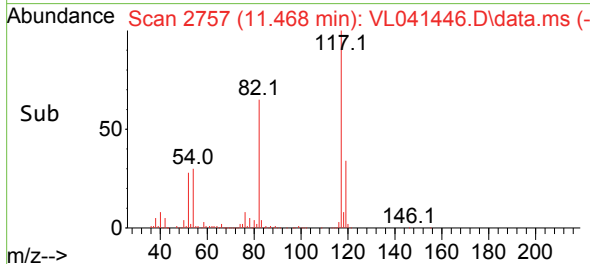
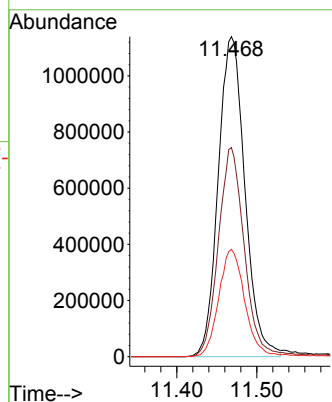
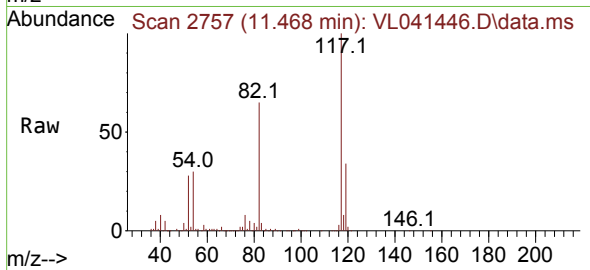




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Instrument :
MSVOA_L
ClientSampleId :
2DL

Tgt Ion:117 Resp: 2636037
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 33.6 45.2 67.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.018 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041446.D
Acq: 30 Jul 2024 2:31

Tgt Ion: 95 Resp: 2032284
Ion Ratio Lower Upper
95 100
174 69.9 56.3 84.5
175 5.1 4.0 6.0

