

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041224.D
 Acq On : 6 May 2024 18:57
 Operator : SY/MD
 Sample : P2334-05DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 03-SS02DL

Quant Time: May 07 05:27:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 07 05:19:44 2024
 Response via : Initial Calibration

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

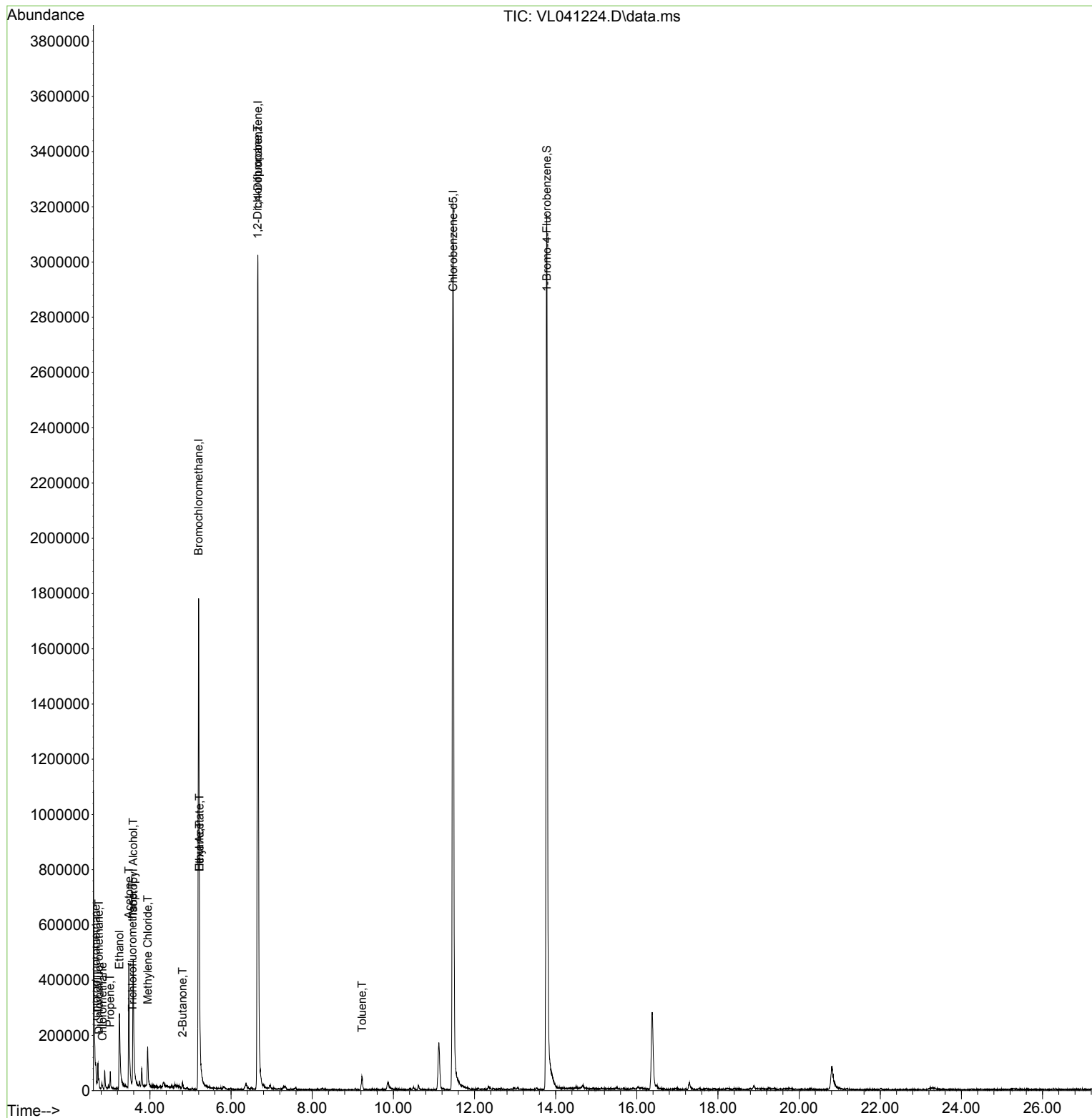
Internal Standards						
1) Bromochloromethane	5.201	49	910293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2341907	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2149944	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1627687	10.028	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.745	85	16329	0.133	ppbv #	87
3) Chlorodifluoromethane	2.668	51	31718	0.229	ppbv #	72
4) Chloromethane	2.829	50	7937	0.146	ppbv #	85
9) Propene	3.021	41	13602	0.251	ppbv	98
11) Trichlorofluoromethane	3.571	101	3996	0.032	ppbv	97
13) Ethanol	3.247	45	318659	26.273	ppbv	96
15) Acetone	3.481	43	464781	4.326	ppbv	98
19) Isopropyl Alcohol	3.587	45	496491	7.043	ppbv #	45
20) Methylene Chloride	3.947	84	41496	1.111	ppbv	96
25) Ethyl Acetate	5.221	43	42440	0.198	ppbv #	93
26) Hexane	5.221	57	40200	0.420	ppbv #	54
34) 2-Butanone	4.806	43	22660	0.190	ppbv	93
39) 1,2-Dichloropropane	6.655	63	591794	7.814	ppbv #	24
53) Toluene	9.230	91	33295	0.146	ppbv	100

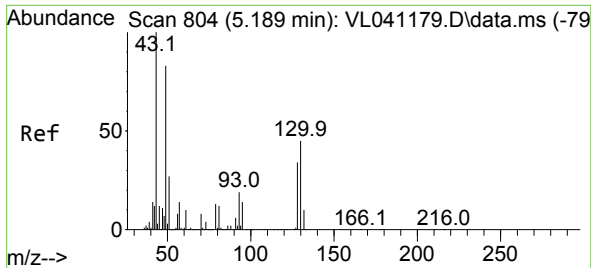
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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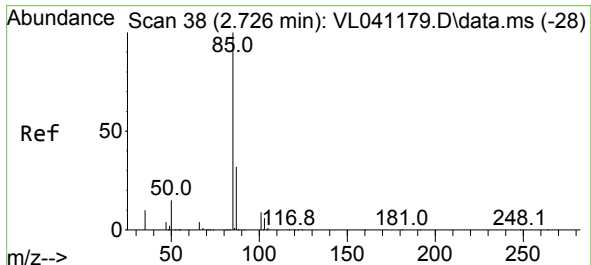
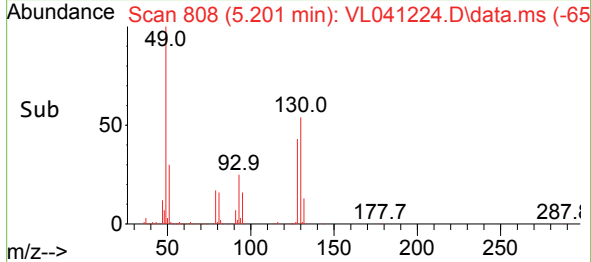
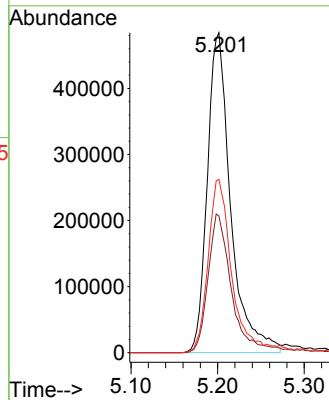
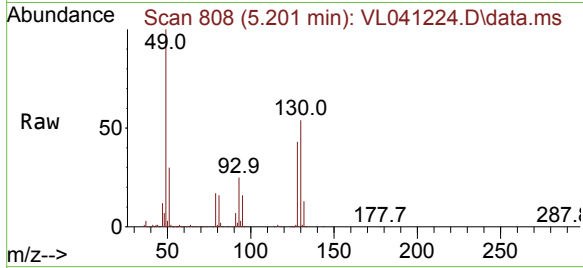




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.201 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL041224.D
 Acq: 6 May 2024 18:57

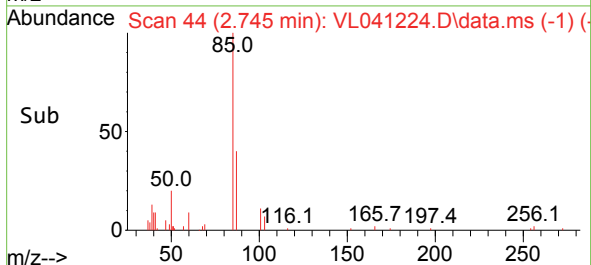
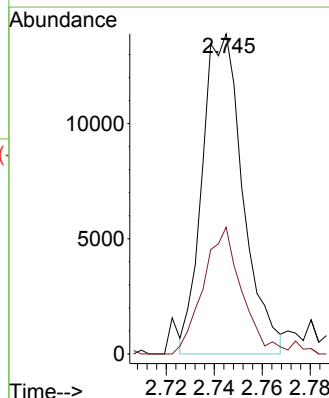
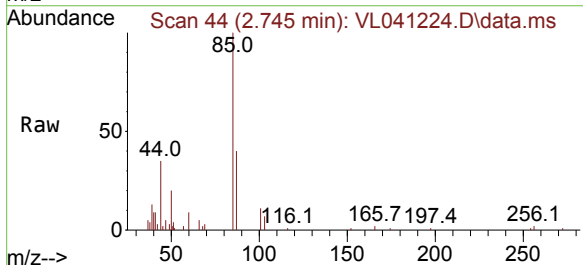
Instrument :
 MSVOA_L
 ClientSampleId :
 03-SS02DL

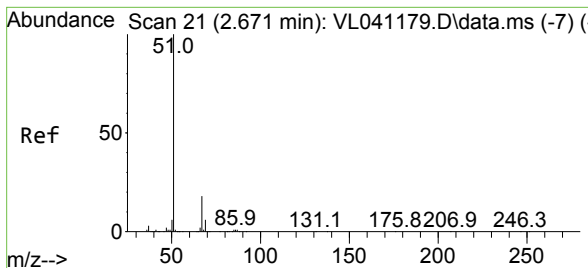
Tgt Ion: 49 Resp: 910293
 Ion Ratio Lower Upper
 49 100
 128 45.5 21.5 64.5
 130 56.6 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.133 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. 0.007 min
 Lab File: VL041224.D
 Acq: 6 May 2024 18:57

Tgt Ion: 85 Resp: 16329
 Ion Ratio Lower Upper
 85 100
 87 39.3 25.7 38.5#





#3

Chlorodifluoromethane

Concen: 0.229 ppbv

RT: 2.668 min Scan# 20

Delta R.T. -0.016 min

Lab File: VL041224.D

Acq: 6 May 2024 18:57

Instrument :

MSVOA_L

ClientSampleId :

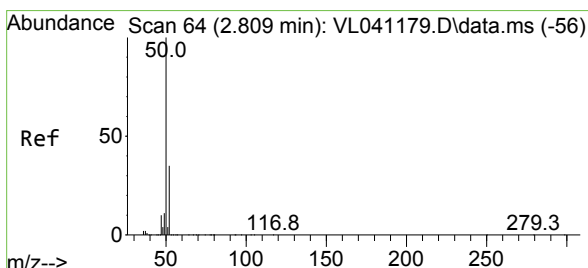
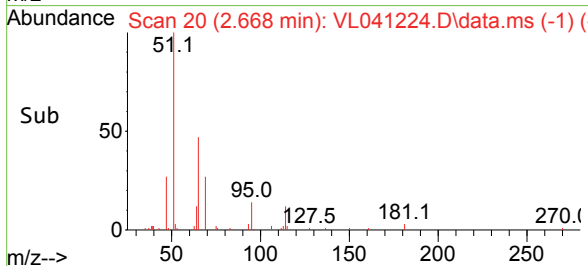
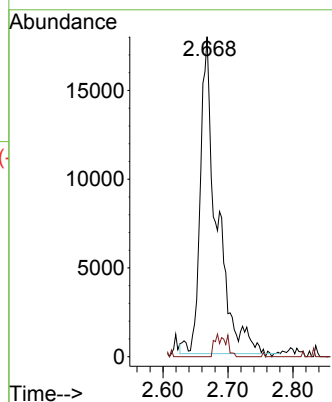
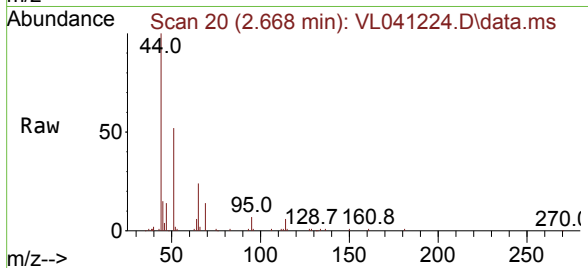
03-SS02DL

Tgt Ion: 51 Resp: 31718

Ion Ratio Lower Upper

51 100

67 5.1 14.0 21.0#



#4

Chloromethane

Concen: 0.146 ppbv

RT: 2.829 min Scan# 70

Delta R.T. 0.007 min

Lab File: VL041224.D

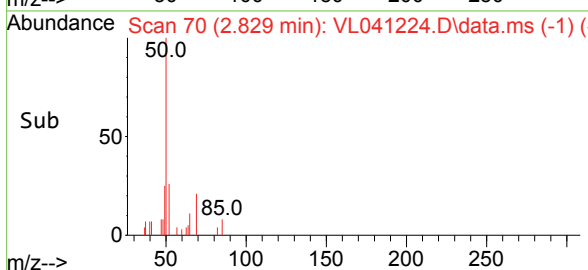
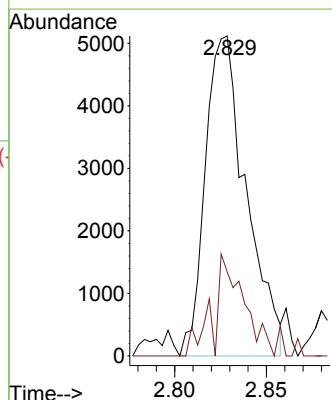
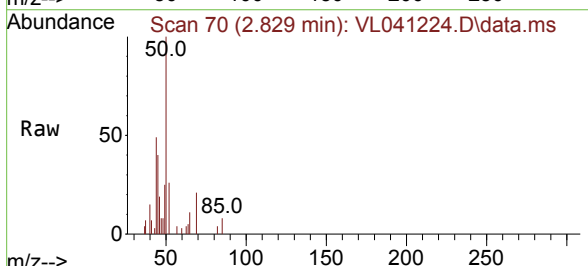
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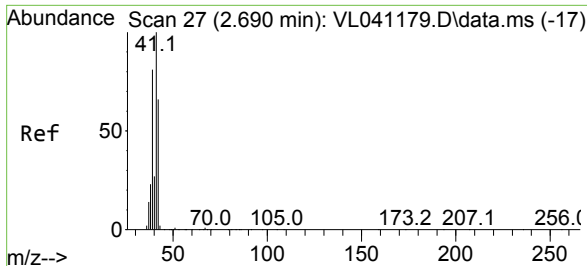
Tgt Ion: 50 Resp: 7937

Ion Ratio Lower Upper

50 100

52 26.4 28.3 42.5#





#9

Propene

Concen: 0.251 ppbv

RT: 3.021 min Scan# 11

Delta R.T. 0.318 min

Lab File: VL041224.D

Acq: 6 May 2024 18:57

Instrument :

MSVOA_L

ClientSampleId :

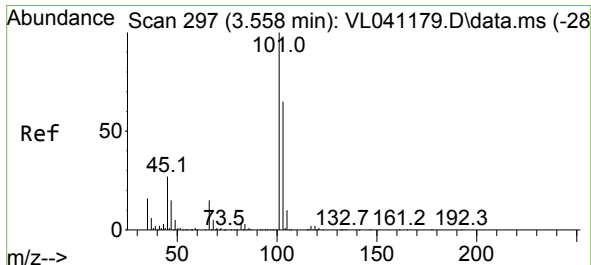
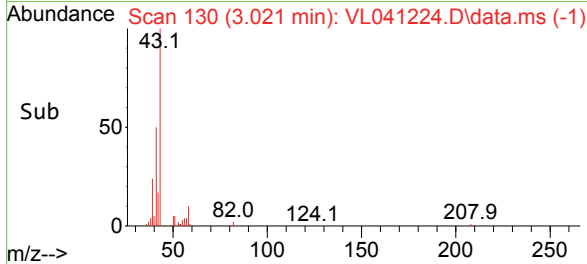
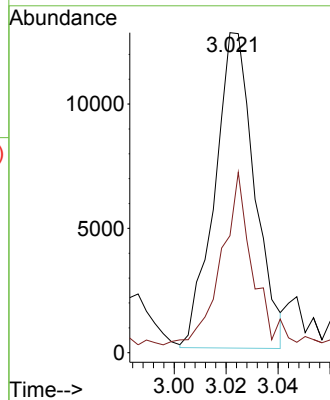
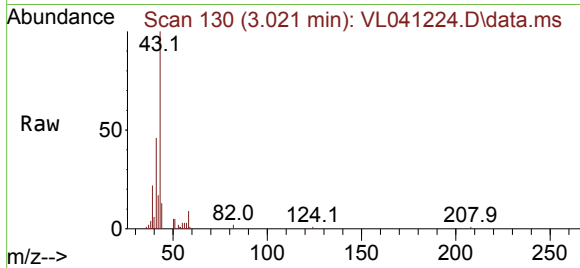
03-SS02DL

Tgt Ion: 41 Resp: 13602

Ion Ratio Lower Upper

41 100

42 67.6 55.3 82.9



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.003 min

Lab File: VL041224.D

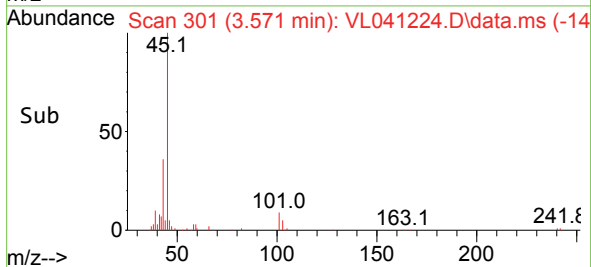
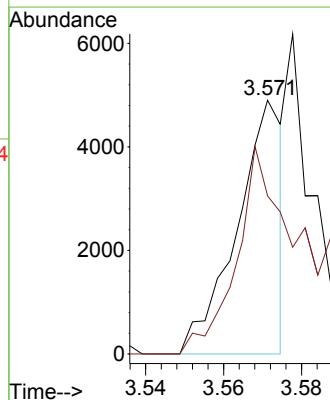
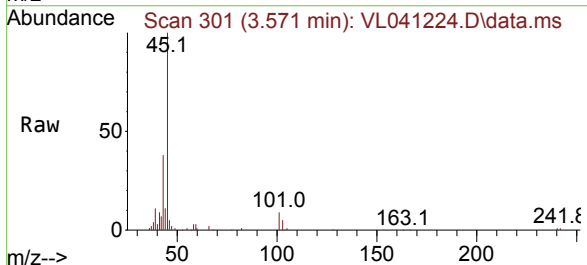
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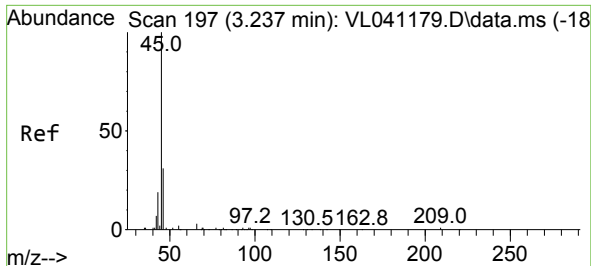
Tgt Ion: 101 Resp: 3996

Ion Ratio Lower Upper

101 100

103 62.3 51.6 77.4

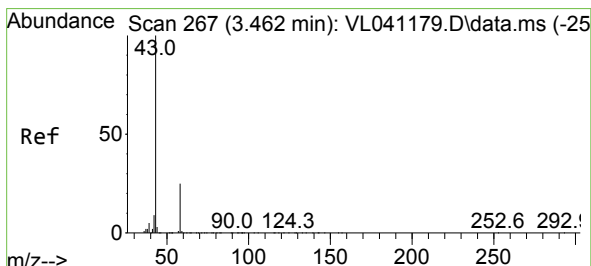
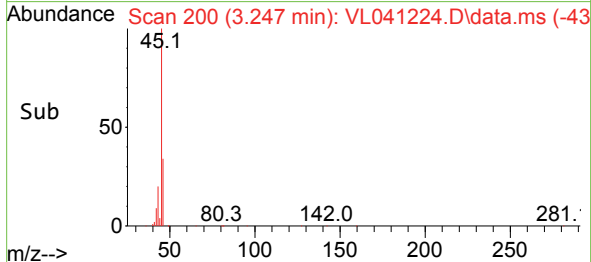
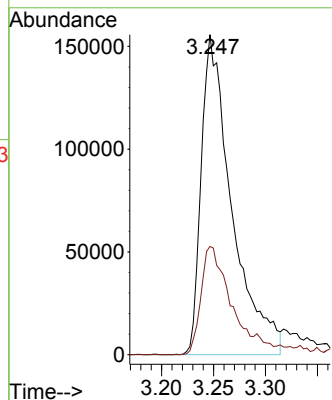
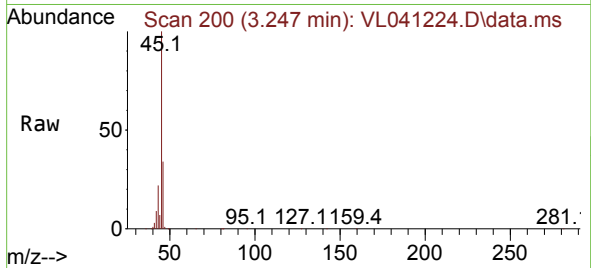




#13
 Ethanol
 Concen: 26.273 ppbv
 RT: 3.247 min Scan# 20
 Delta R.T. 0.003 min
 Lab File: VL041224.D
 Acq: 6 May 2024 18:57

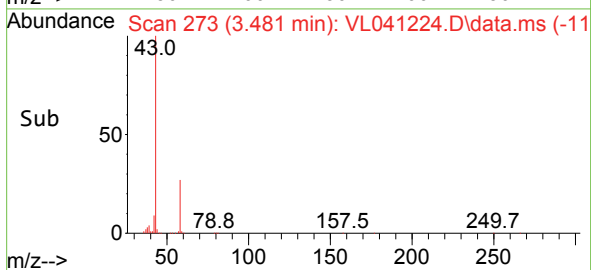
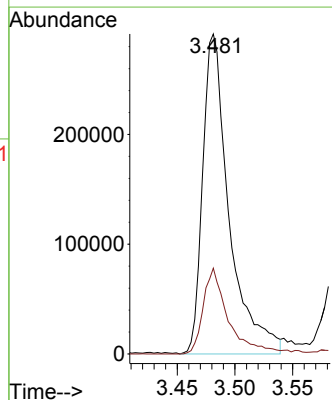
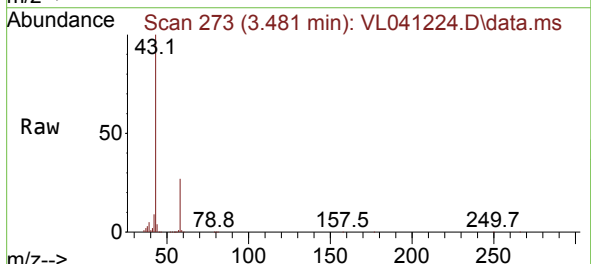
Instrument :
 MSVOA_L
 ClientSampleId :
 03-SS02DL

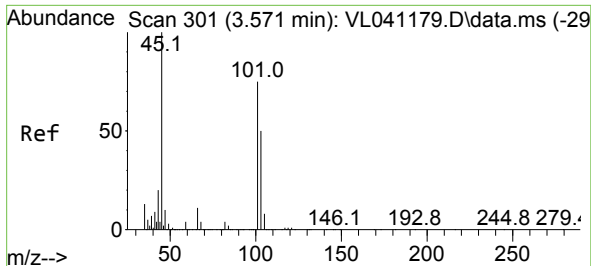
Tgt Ion: 45 Resp: 318659
 Ion Ratio Lower Upper
 45 100
 46 39.1 14.8 59.0



#15
 Acetone
 Concen: 4.326 ppbv
 RT: 3.481 min Scan# 273
 Delta R.T. 0.007 min
 Lab File: VL041224.D
 Acq: 6 May 2024 18:57

Tgt Ion: 43 Resp: 464781
 Ion Ratio Lower Upper
 43 100
 58 25.9 21.4 32.0

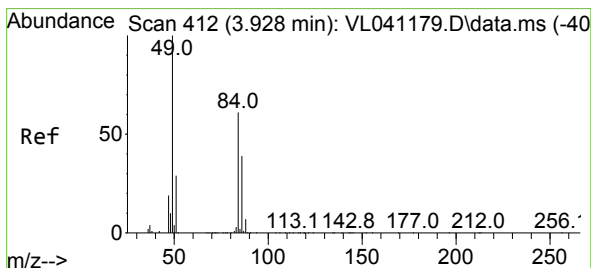
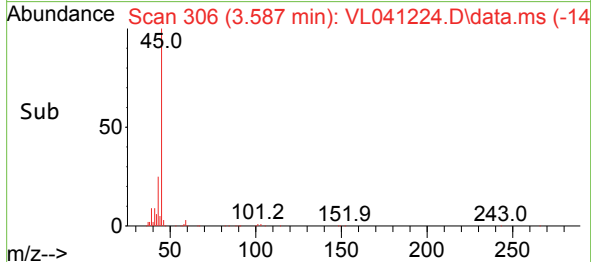
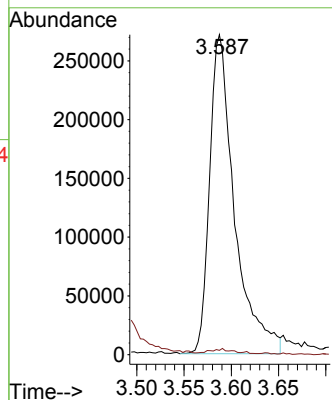
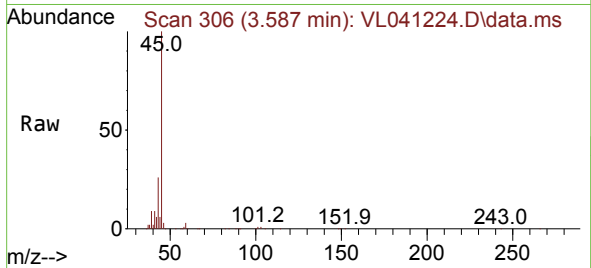




#19
Isopropyl Alcohol
Concen: 7.043 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.007 min
Lab File: VL041224.D
Acq: 6 May 2024 18:57

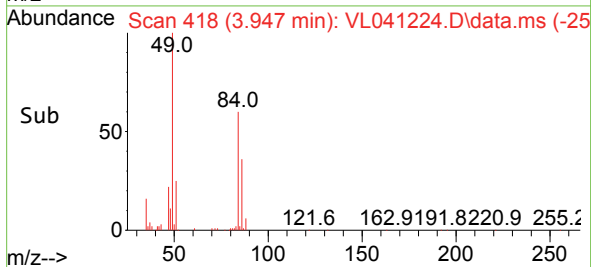
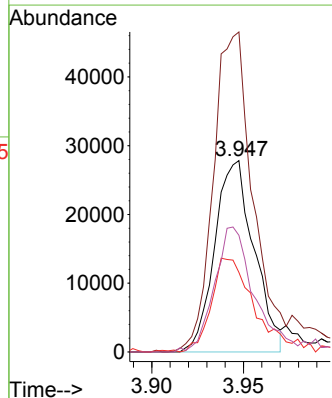
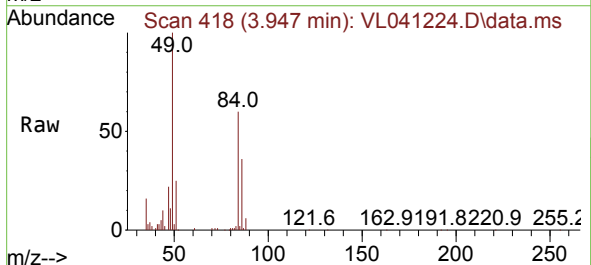
Instrument :
MSVOA_L
ClientSampleId :
03-SS02DL

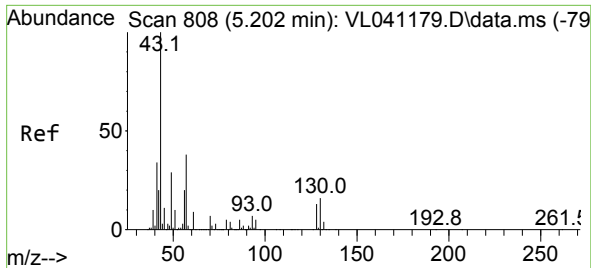
Tgt Ion: 45 Resp: 496491
Ion Ratio Lower Upper
45 100
58 2.4 26.8 40.2#



#20
Methylene Chloride
Concen: 1.111 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.010 min
Lab File: VL041224.D
Acq: 6 May 2024 18:57

Tgt Ion: 84 Resp: 41496
Ion Ratio Lower Upper
84 100
49 165.4 130.4 195.6
51 41.5 38.0 57.0
86 58.8 50.3 75.5

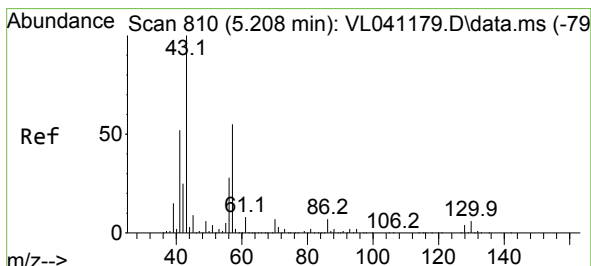
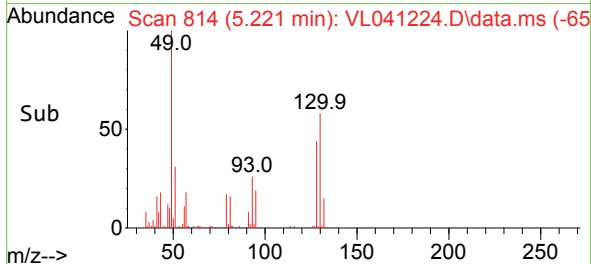
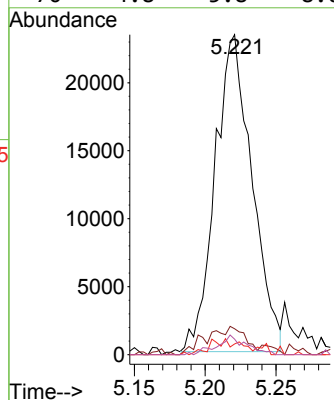
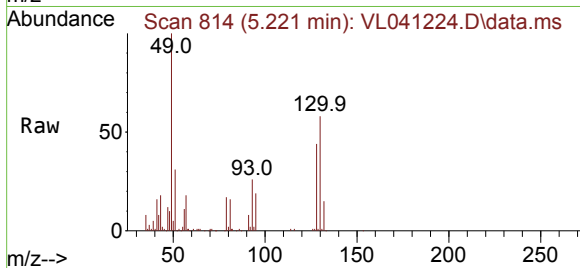




#25
Ethyl Acetate
Concen: 0.198 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.016 min
Lab File: VL041224.D
Acq: 6 May 2024 18:57

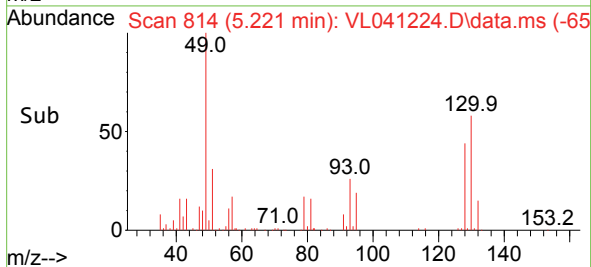
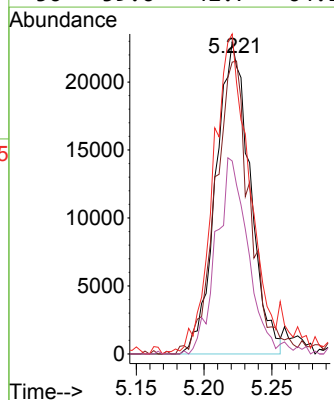
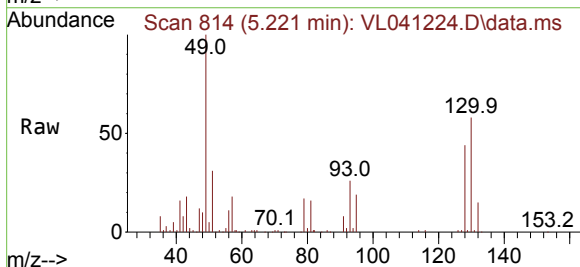
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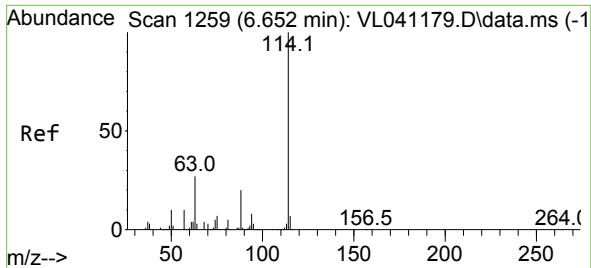
Tgt Ion:	43	Resp:	42440
Ion	Ratio	Lower	Upper
43	100		
45	11.5	8.2	12.2
61	5.2	7.7	11.5#
70	4.8	5.8	8.6#



#26
Hexane
Concen: 0.420 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.007 min
Lab File: VL041224.D
Acq: 6 May 2024 18:57

Tgt Ion:	57	Resp:	40200
Ion	Ratio	Lower	Upper
57	100		
41	98.1	75.8	113.8
43	114.1	187.0	280.4#
56	59.6	42.7	64.1

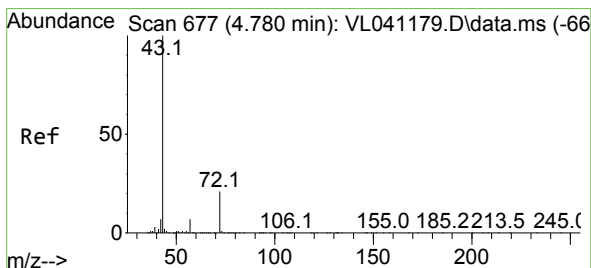
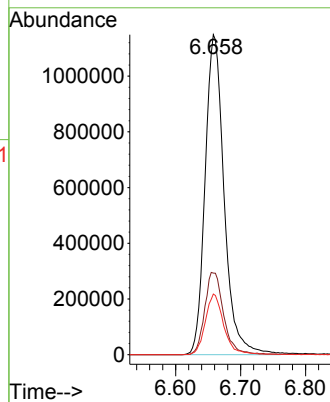
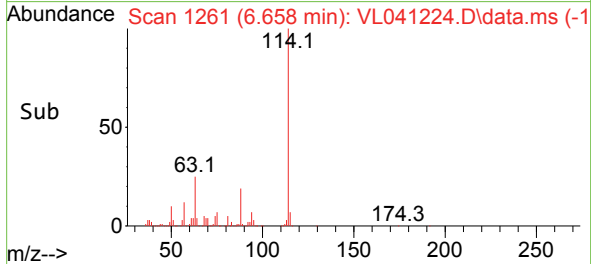
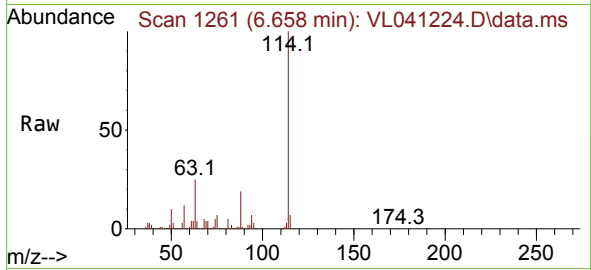




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.658 min Scan# 114
 Delta R.T. 0.003 min
 Lab File: VL041224.D
 Acq: 6 May 2024 18:57

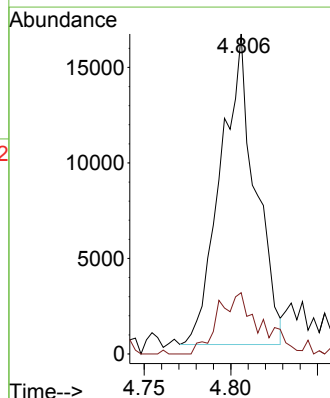
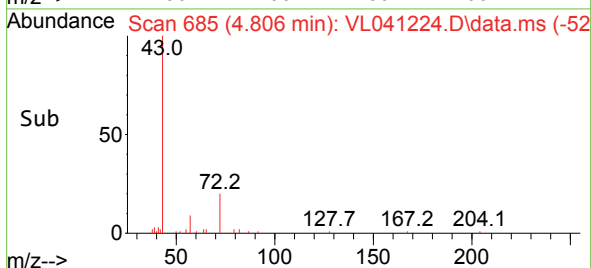
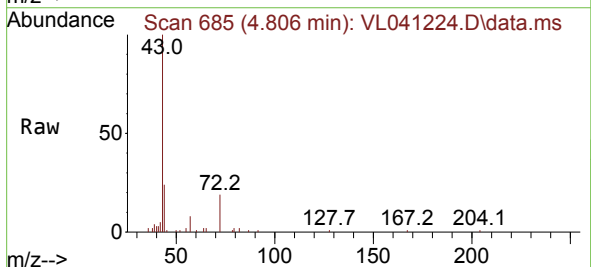
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 MSVOA_L
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 03-SS02DL

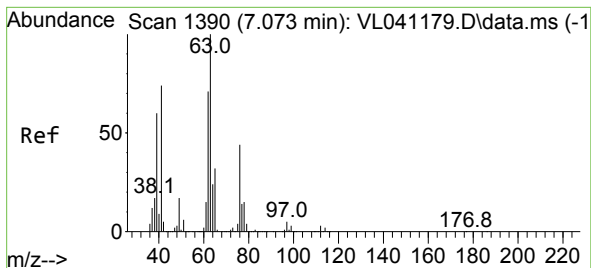
Tgt Ion:114 Resp: 2341907
 Ion Ratio Lower Upper
 114 100
 63 25.9 21.8 32.6
 88 18.5 15.2 22.8



#34
 2-Butanone
 Concen: 0.190 ppbv
 RT: 4.806 min Scan# 685
 Delta R.T. 0.019 min
 Lab File: VL041224.D
 Acq: 6 May 2024 18:57

Tgt Ion: 43 Resp: 22660
 Ion Ratio Lower Upper
 43 100
 72 24.8 17.3 25.9





#39

1,2-Dichloropropane

Concen: 7.814 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041224.D

Acq: 6 May 2024 18:57

Instrument :

MSVOA_L

ClientSampleId :

03-SS02DL

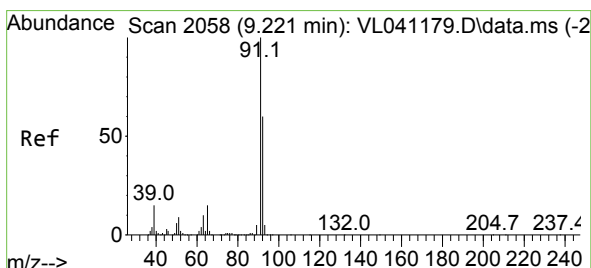
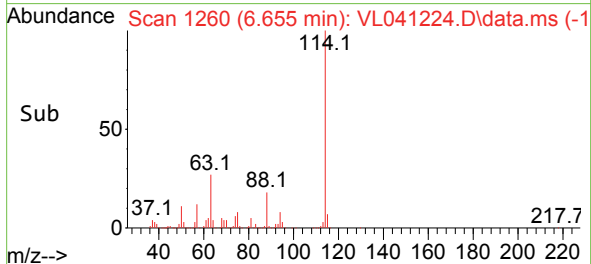
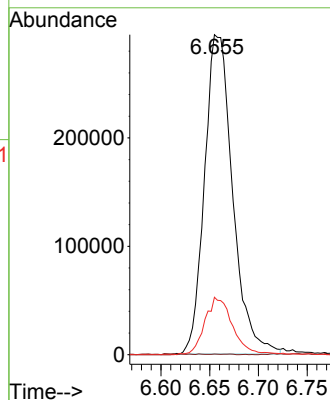
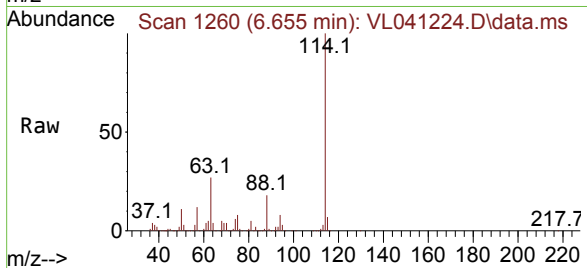
Tgt Ion: 63 Resp: 591794

Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 17.6 56.8 85.2#



#53

Toluene

Concen: 0.146 ppbv

RT: 9.230 min Scan# 2061

Delta R.T. 0.010 min

Lab File: VL041224.D

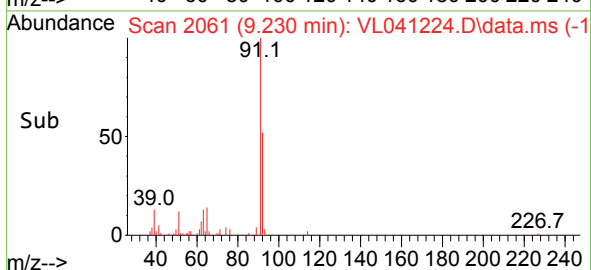
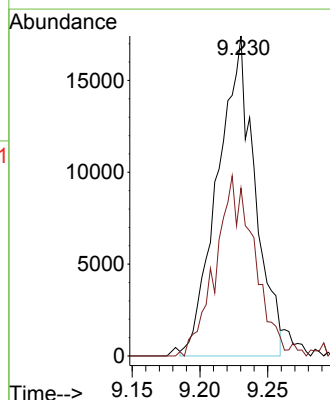
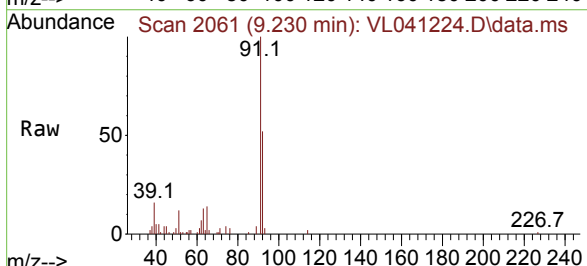
Acq: 6 May 2024 18:57

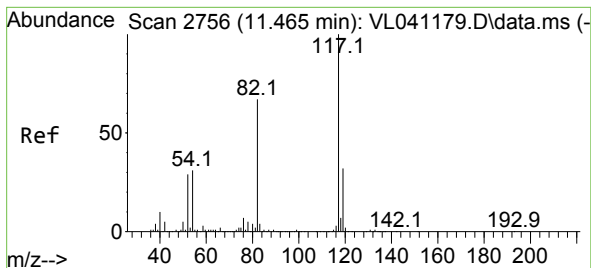
Tgt Ion: 91 Resp: 33295

Ion Ratio Lower Upper

91 100

92 60.3 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL041224.D

Acq: 6 May 2024 18:57

Instrument :

MSVOA_L

ClientSampleId :

03-SS02DL

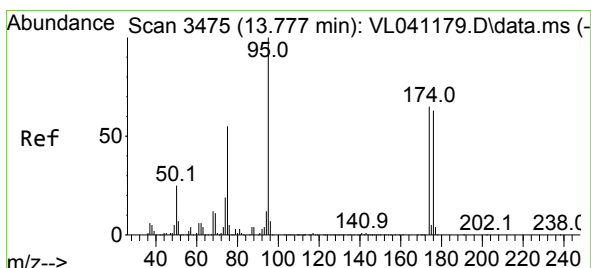
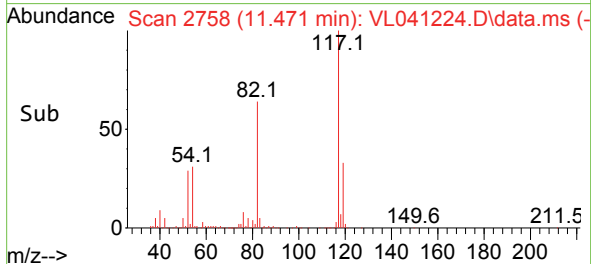
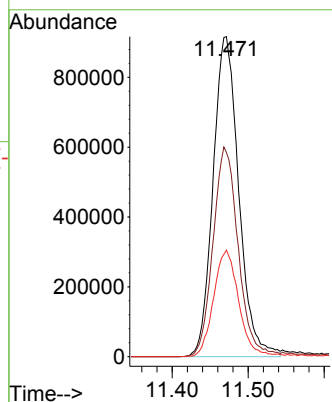
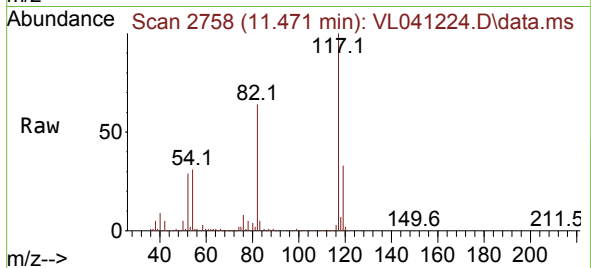
Tgt Ion:117 Resp: 2149944

Ion Ratio Lower Upper

117 100

82 66.2 53.6 80.4

119 33.7 27.2 40.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.028 ppbv

RT: 13.780 min Scan# 3476

Delta R.T. 0.007 min

Lab File: VL041224.D

Acq: 6 May 2024 18:57

Tgt Ion: 95 Resp: 1627687

Ion Ratio Lower Upper

95 100

174 66.9 53.6 80.4

175 4.9 4.2 6.4

