

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041551.D
 Acq On : 19 Aug 2024 17:11
 Operator : SY/MD
 Sample : P3658-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVIDL

Quant Time: Aug 20 02:19:34 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 Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

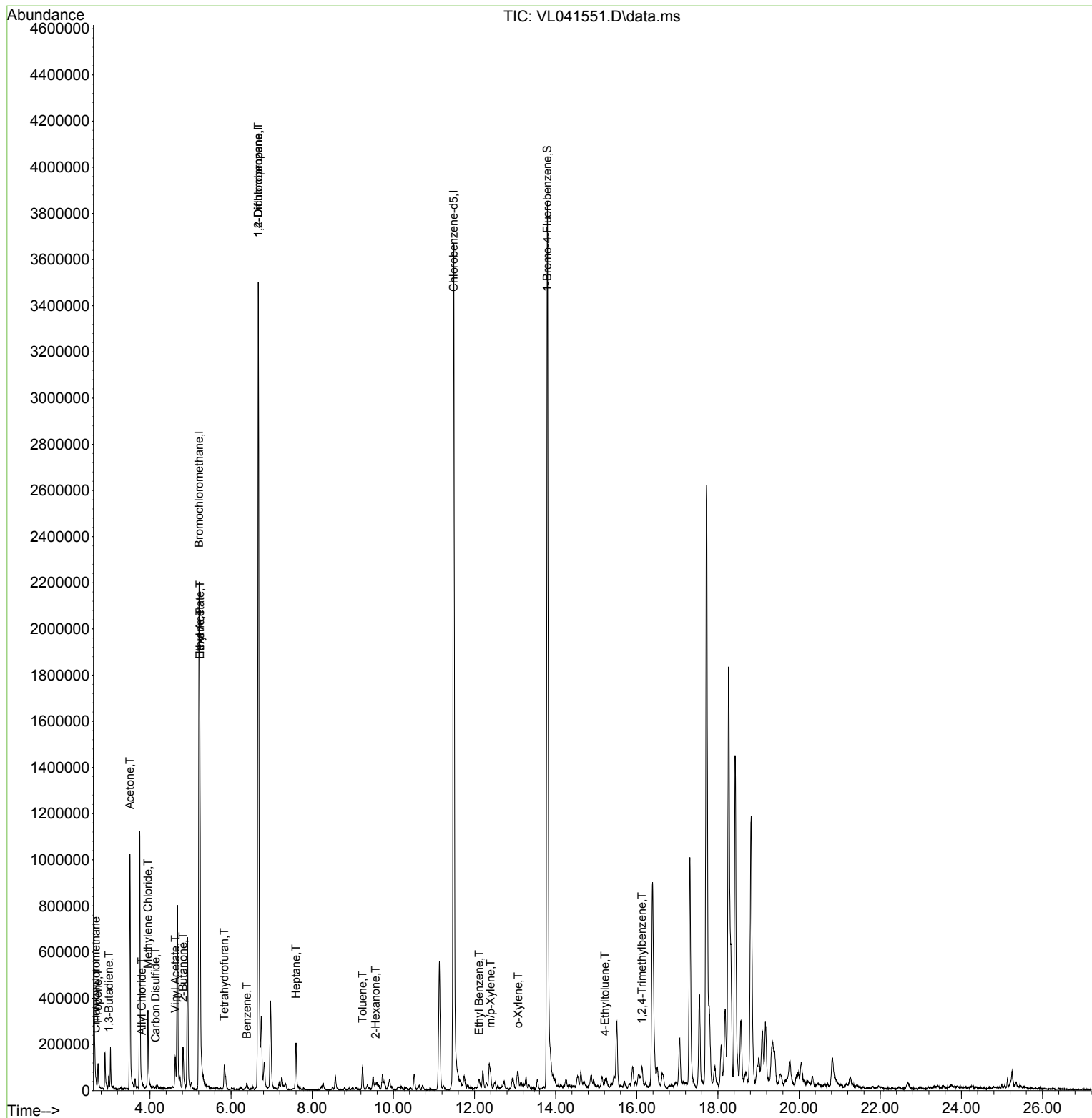
Internal Standards						
1) Bromochloromethane	5.211	49	1034686	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2720820	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2495945	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1916973	9.980	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.668	51	12186	0.099	ppbv #	78
9) Propene	2.716	41	26211	0.463	ppbv	91
10) Heptane	7.600	43	85250	0.671	ppbv	100
15) Acetone	3.507	43	472776	4.022	ppbv #	79
16) 1,3-Butadiene	2.989	39	15202	0.242	ppbv #	31
20) Methylene Chloride	3.954	84	112421	2.564	ppbv	96
21) Allyl Chloride	3.800	41	4931	0.064	ppbv #	22
23) Vinyl Acetate	4.626	43	68235	0.760	ppbv #	1
25) Ethyl Acetate	5.230	43	309194	1.324	ppbv #	76
26) Hexane	5.230	57	436105	4.501	ppbv #	38
27) Carbon Disulfide	4.144	76	3661	0.032	ppbv #	72
34) 2-Butanone	4.816	43	221470	1.683	ppbv	99
36) Benzene	6.391	78	8791	0.044	ppbv	98
39) 1,2-Dichloropropane	6.671	63	664122	8.725	ppbv #	24
41) Tetrahydrofuran	5.835	42	8424	0.112	ppbv #	37
51) 2-Hexanone	9.565	43	4796	0.031	ppbv #	30
53) Toluene	9.240	91	72847	0.329	ppbv	97
58) Ethyl Benzene	12.111	91	14519	0.050	ppbv	97
59) m/p-Xylene	12.397	91	21681	0.087	ppbv #	31
60) o-Xylene	13.076	91	8891	0.038	ppbv #	1
72) 4-Ethyltoluene	15.214	105	19434	0.070	ppbv #	91
74) 1,2,4-Trimethylbenzene	16.124	105	28674	0.104	ppbv #	69

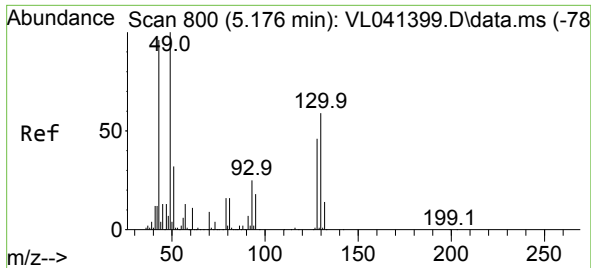
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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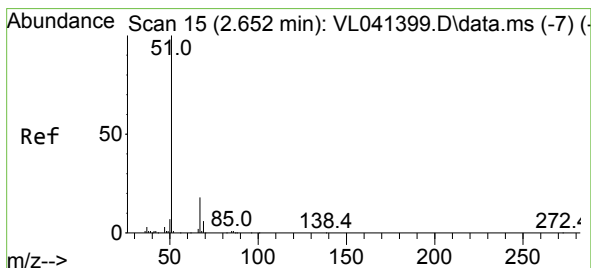
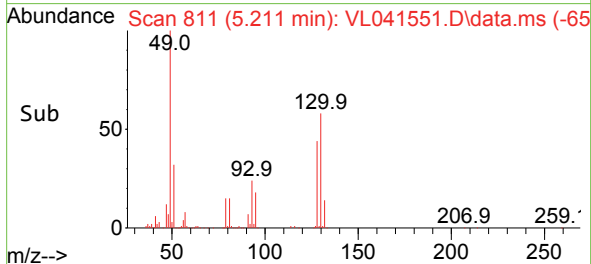
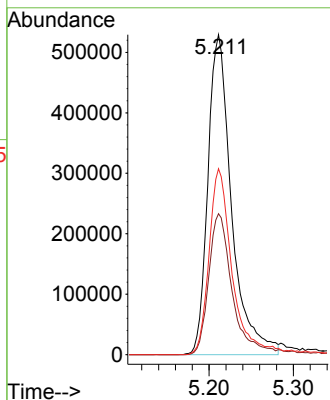
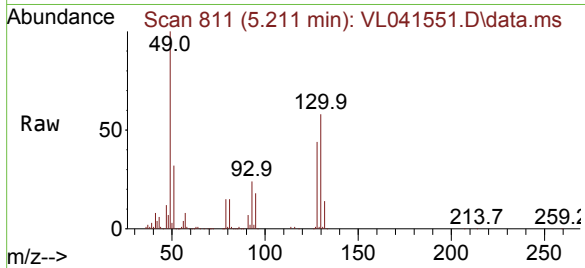




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

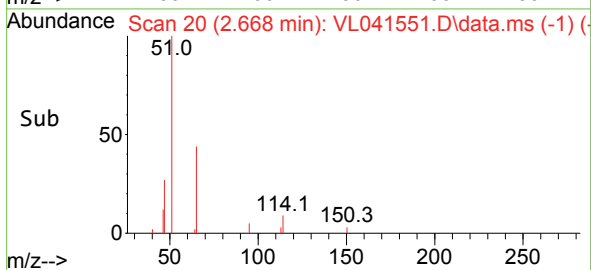
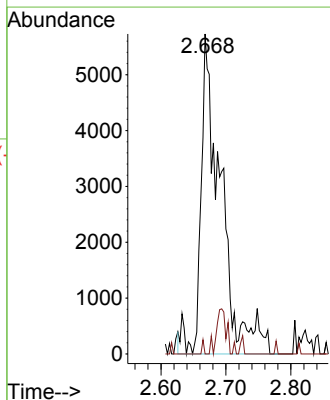
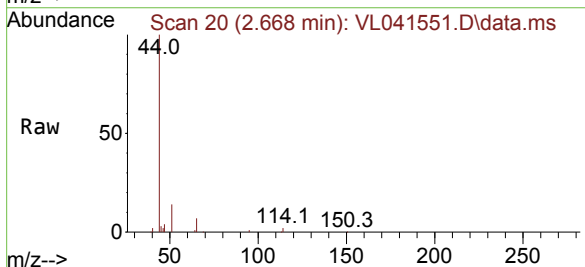
Instrument :
MSVOA_L
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SVIDL

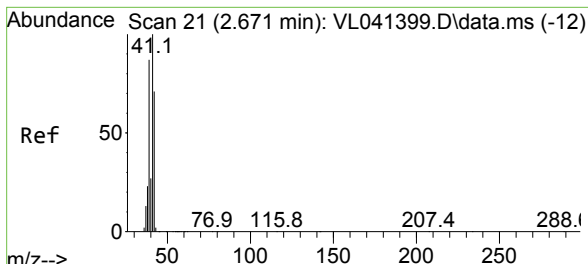
Tgt Ion: 49 Resp: 1034686
Ion Ratio Lower Upper
49 100
128 45.4 23.8 71.4
130 58.0 30.8 92.4



#3
Chlorodifluoromethane
Concen: 0.099 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.026 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 51 Resp: 12186
Ion Ratio Lower Upper
51 100
67 8.4 14.5 21.7





#9

Propene

Concen: 0.463 ppbv

RT: 2.716 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL041551.D

Acq: 19 Aug 2024 17:11

Instrument :

MSVOA_L

ClientSampleId :

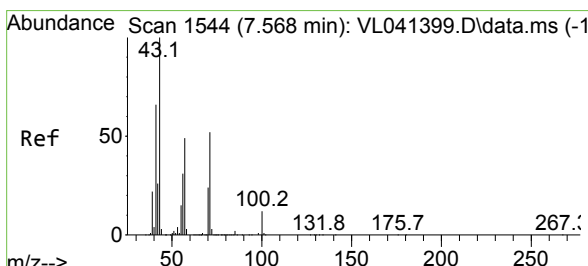
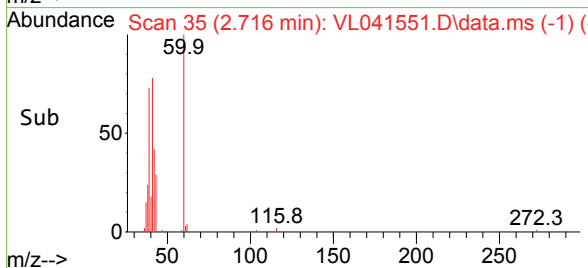
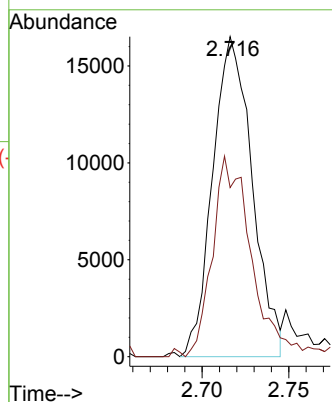
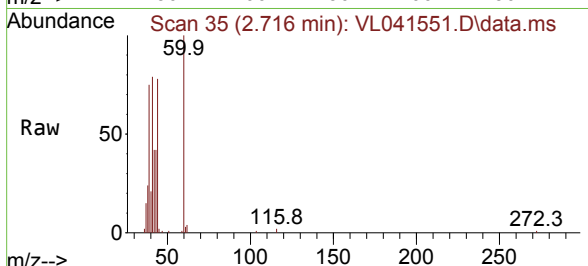
SVIDL

Tgt Ion: 41 Resp: 26211

Ion Ratio Lower Upper

41 100

42 62.3 55.9 83.9



#10

Heptane

Concen: 0.671 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.003 min

Lab File: VL041551.D

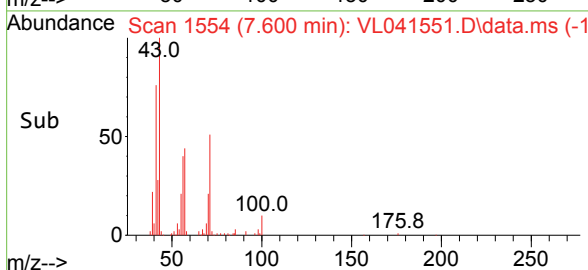
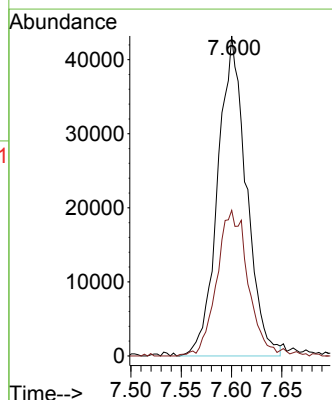
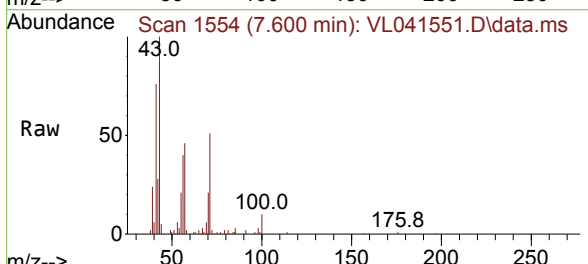
Acq: 19 Aug 2024 17:11

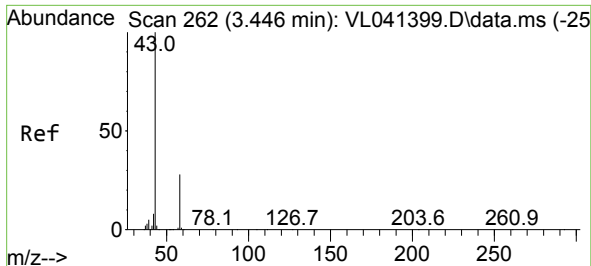
Tgt Ion: 43 Resp: 85250

Ion Ratio Lower Upper

43 100

57 50.4 40.5 60.7

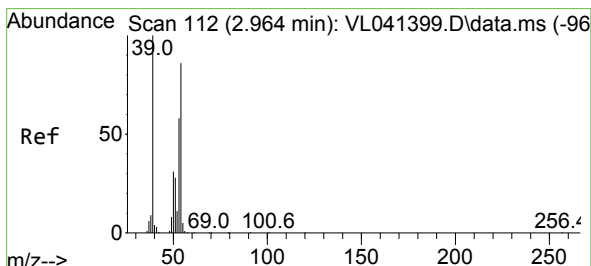
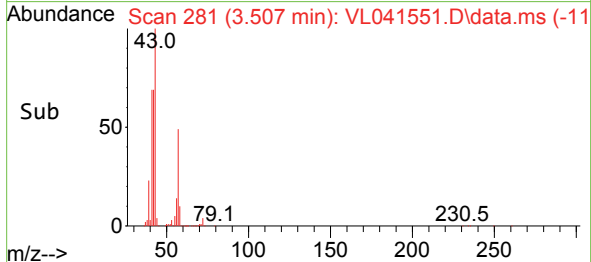
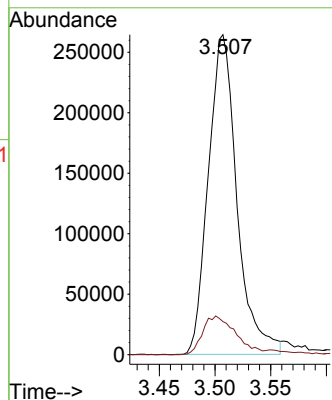
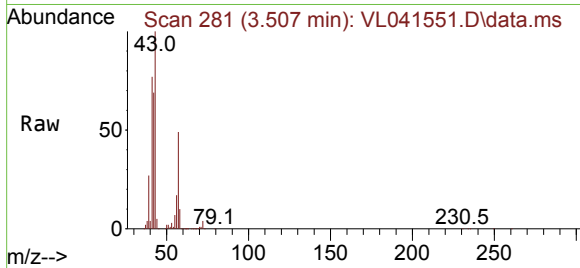




#15
Acetone
Concen: 4.022 ppbv
RT: 3.507 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

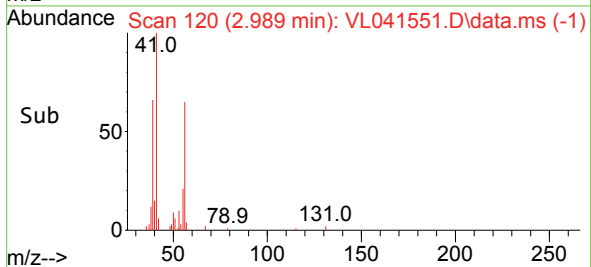
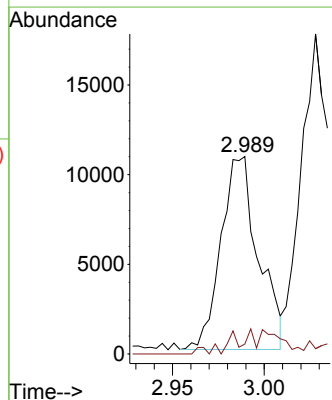
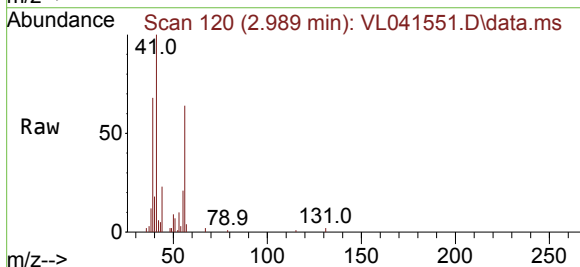
Instrument :
MSVOA_L
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SVIDL

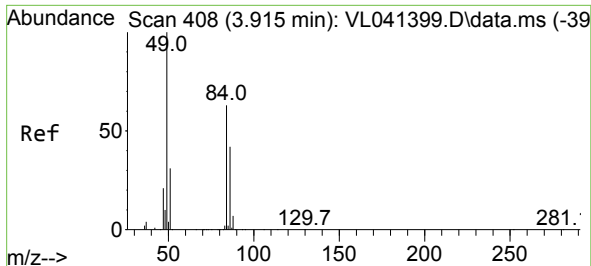
Tgt Ion: 43 Resp: 472776
Ion Ratio Lower Upper
43 100
58 16.0 21.4 32.2#



#16
1,3-Butadiene
Concen: 0.242 ppbv
RT: 2.989 min Scan# 120
Delta R.T. -0.013 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 39 Resp: 15202
Ion Ratio Lower Upper
39 100
54 18.2 62.5 93.7#

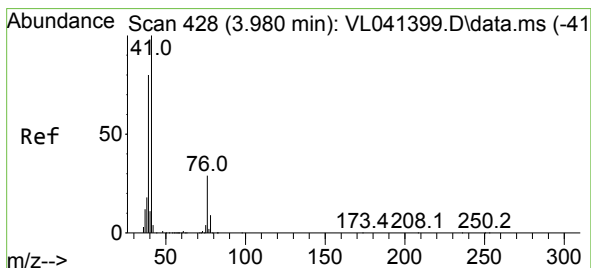
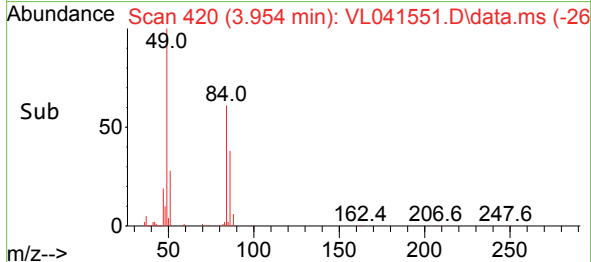
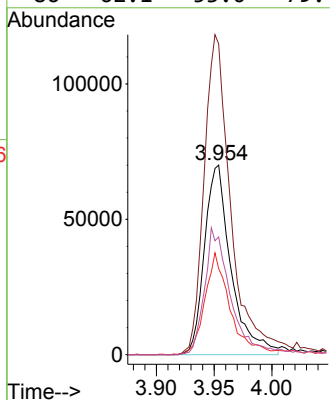
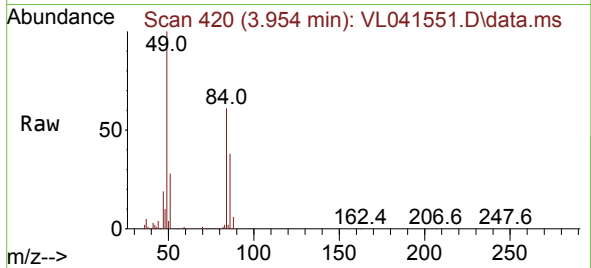




#20
Methylene Chloride
Concen: 2.564 ppbv
RT: 3.954 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

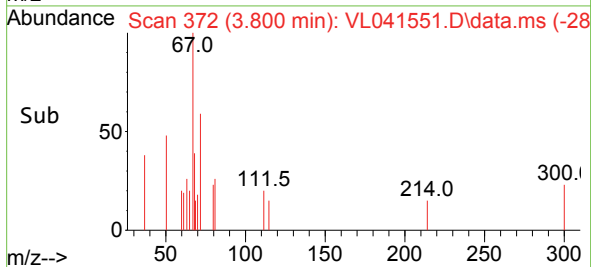
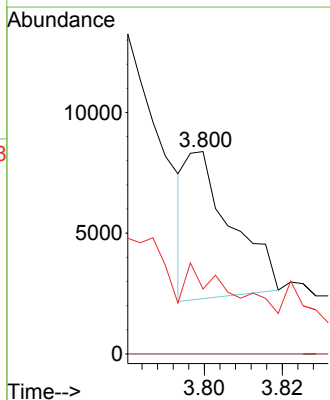
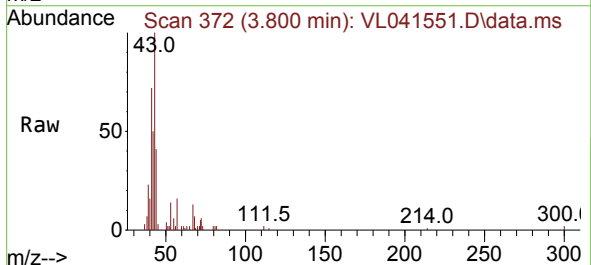
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

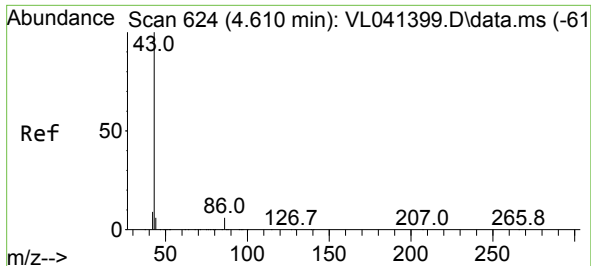
Tgt Ion: 84 Resp: 112421
Ion Ratio Lower Upper
84 100
49 163.7 126.6 190.0
51 45.4 38.6 58.0
86 62.1 53.0 79.4



#21
Allyl Chloride
Concen: 0.064 ppbv
RT: 3.800 min Scan# 372
Delta R.T. -0.212 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 41 Resp: 4931
Ion Ratio Lower Upper
41 100
76 5.8 23.7 35.5#
39 0.0 64.3 96.5#



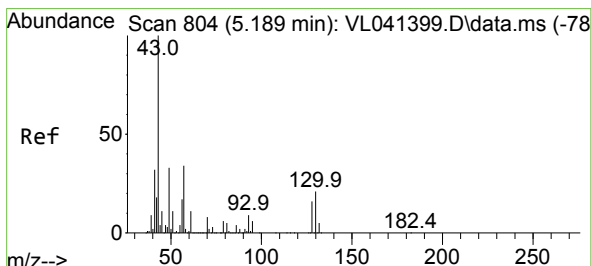
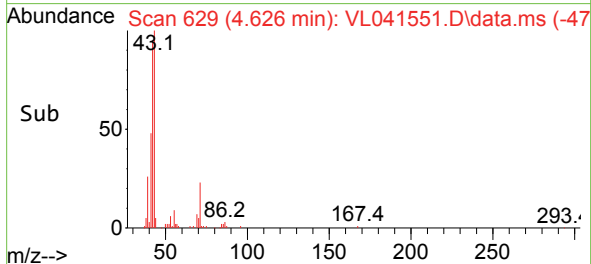
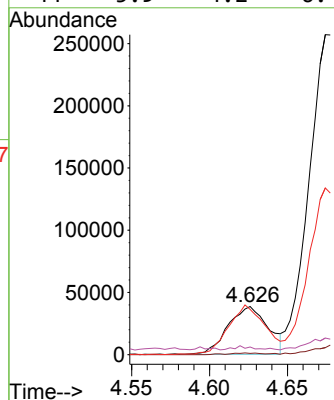
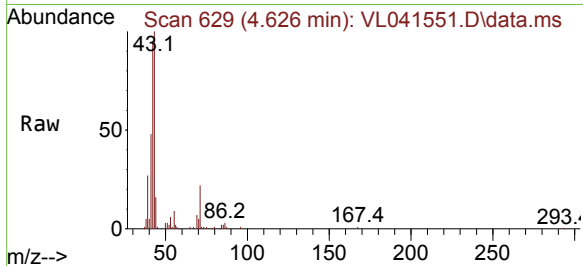


#23
 Vinyl Acetate
 Concen: 0.760 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL041551.D
 Acq: 19 Aug 2024 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SVIDL

Tgt Ion: 43 Resp: 68235

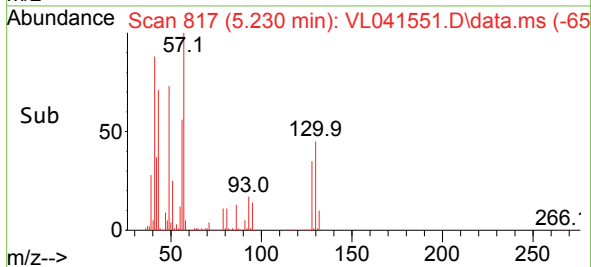
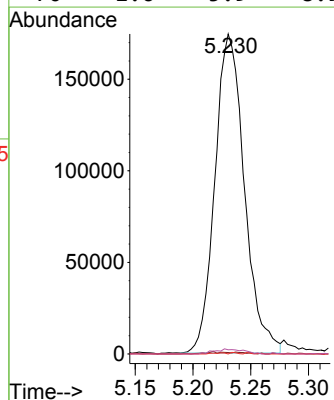
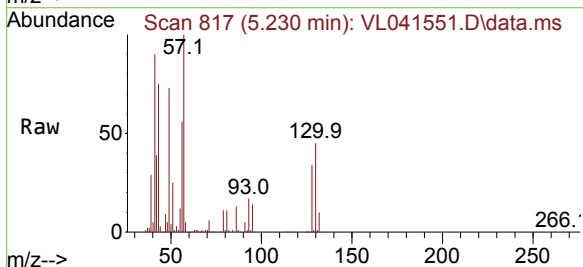
Ion	Ratio	Lower	Upper
43	100		
86	2.6	4.6	6.8#
42	92.8	7.9	11.9#
44	5.9	4.2	6.4

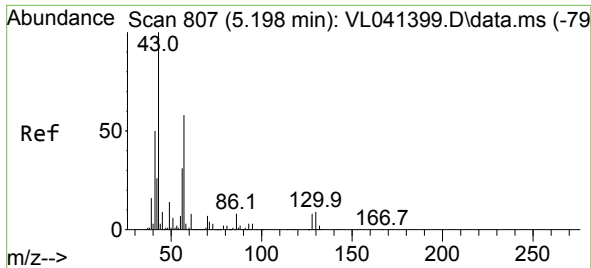


#25
 Ethyl Acetate
 Concen: 1.324 ppbv
 RT: 5.230 min Scan# 817
 Delta R.T. 0.010 min
 Lab File: VL041551.D
 Acq: 19 Aug 2024 17:11

Tgt Ion: 43 Resp: 309194

Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.5	12.7#
61	0.3	8.0	12.0#
70	1.6	5.9	8.9#

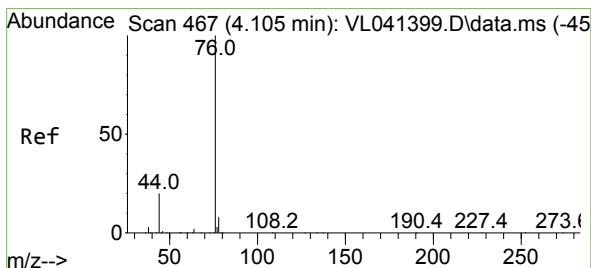
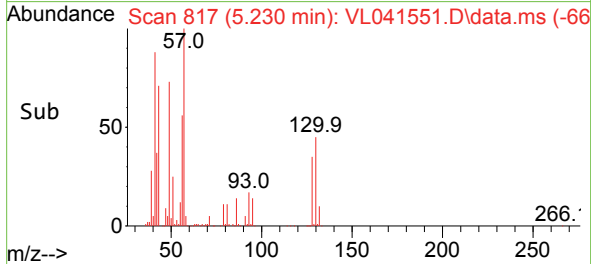
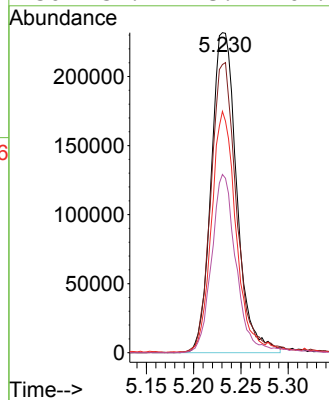
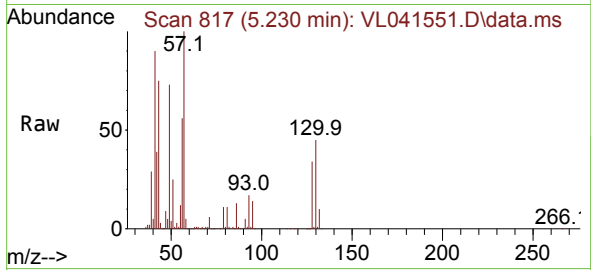




#26
Hexane
Concen: 4.501 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.000 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

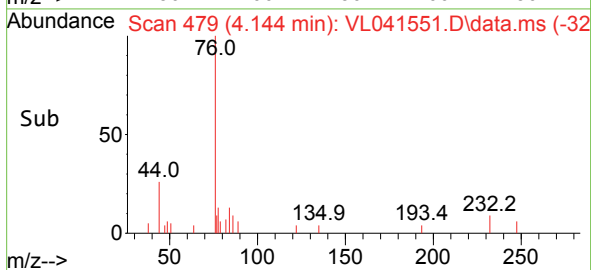
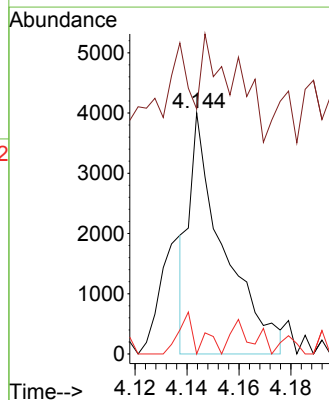
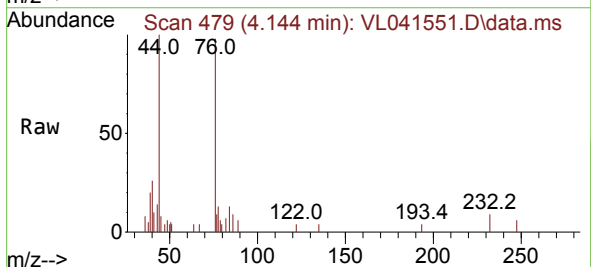
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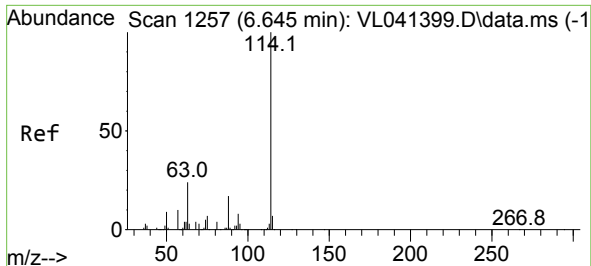
Tgt Ion: 57 Resp: 436105
Ion Ratio Lower Upper
57 100
41 92.2 74.0 111.0
43 73.2 193.6 290.4#
56 54.2 43.1 64.7



#27
Carbon Disulfide
Concen: 0.032 ppbv
RT: 4.144 min Scan# 479
Delta R.T. 0.000 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 76 Resp: 3661
Ion Ratio Lower Upper
76 100
44 36.4 15.6 23.4#
78 6.6 7.7 11.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041551.D

Acq: 19 Aug 2024 17:11

Instrument :

MSVOA_L

ClientSampleId :

SVIDL

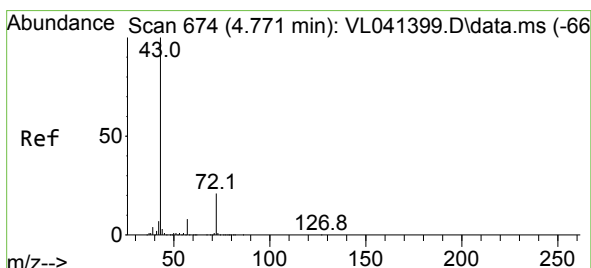
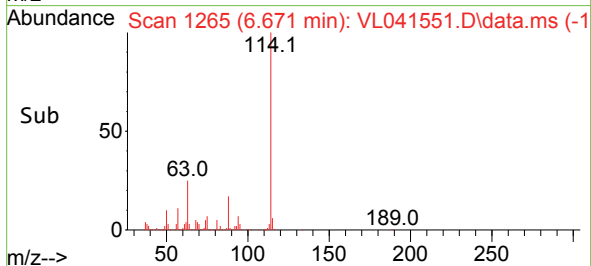
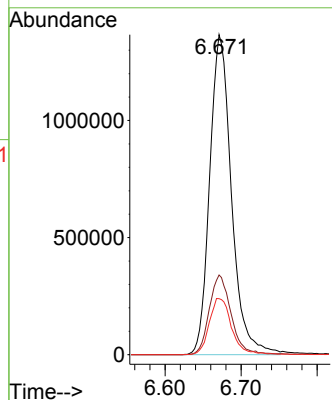
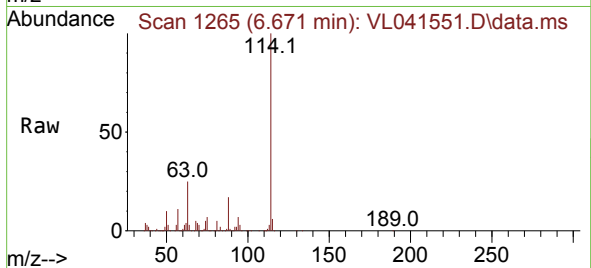
Tgt Ion:114 Resp: 2720820

Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 1.683 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.013 min

Lab File: VL041551.D

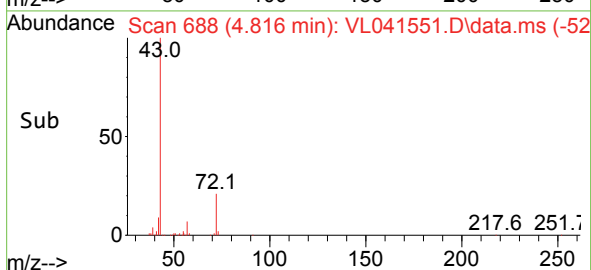
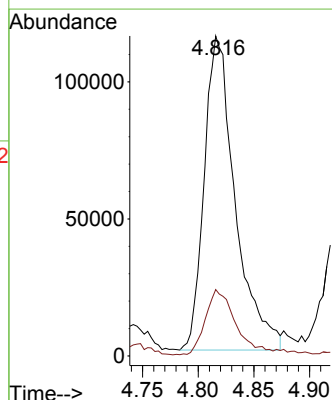
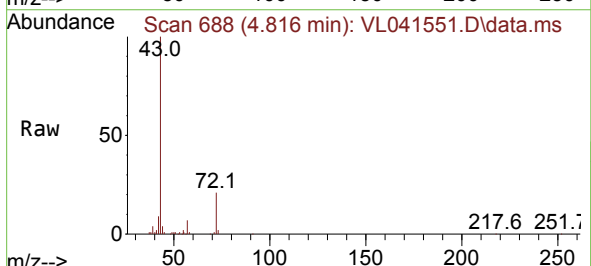
Acq: 19 Aug 2024 17:11

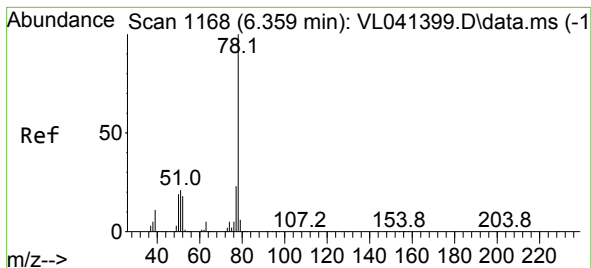
Tgt Ion: 43 Resp: 221470

Ion Ratio Lower Upper

43 100

72 22.3 17.3 25.9





#36

Benzene

Concen: 0.044 ppbv

RT: 6.391 min Scan# 1168

Delta R.T. 0.000 min

Lab File: VL041551.D

Acq: 19 Aug 2024 17:11

Instrument :

MSVOA_L

ClientSampleId :

SVIDL

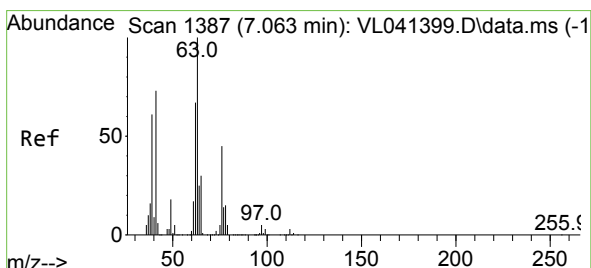
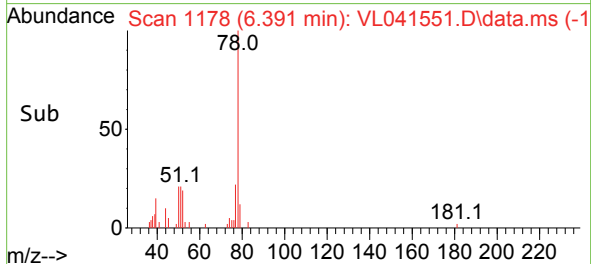
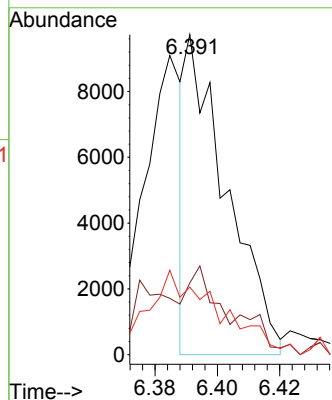
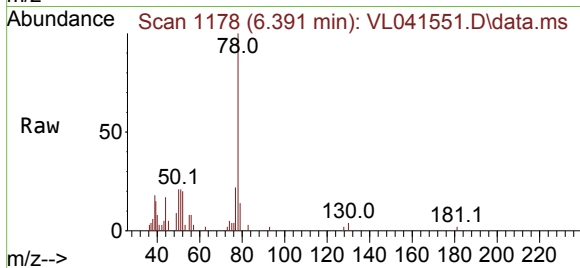
Tgt Ion: 78 Resp: 8791

Ion Ratio Lower Upper

78 100

77 21.2 18.1 27.1

50 20.1 15.5 23.3



#39

1,2-Dichloropropane

Concen: 8.725 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. -0.424 min

Lab File: VL041551.D

Acq: 19 Aug 2024 17:11

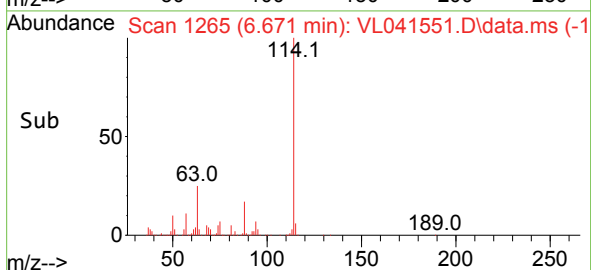
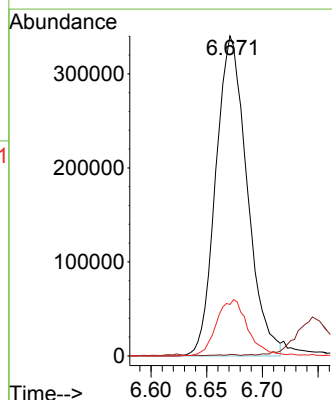
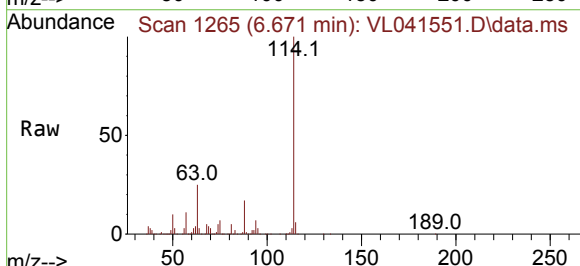
Tgt Ion: 63 Resp: 664122

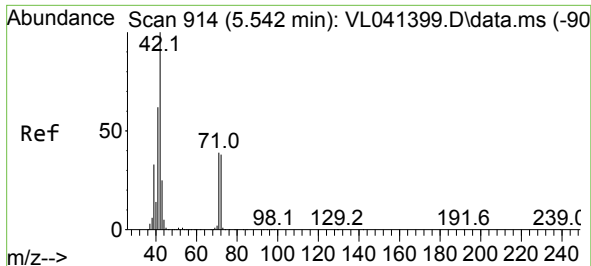
Ion Ratio Lower Upper

63 100

41 0.1 58.3 87.5#

62 16.0 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.112 ppbv

RT: 5.835 min Scan# 1005

Delta R.T. 0.261 min

Lab File: VL041551.D

Acq: 19 Aug 2024 17:11

Instrument :

MSVOA_L

ClientSampleId :

SVIDL

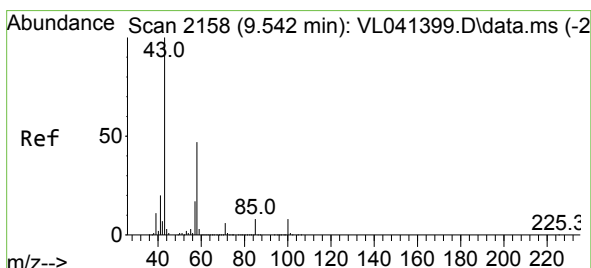
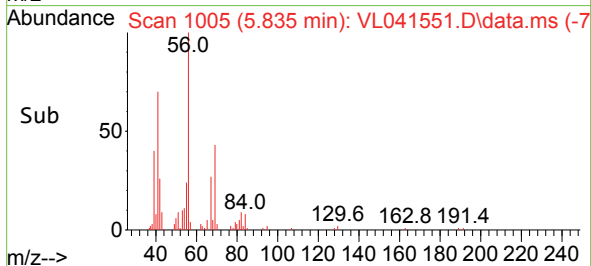
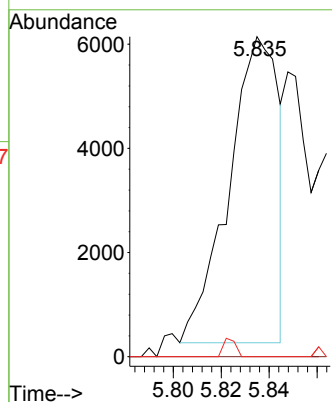
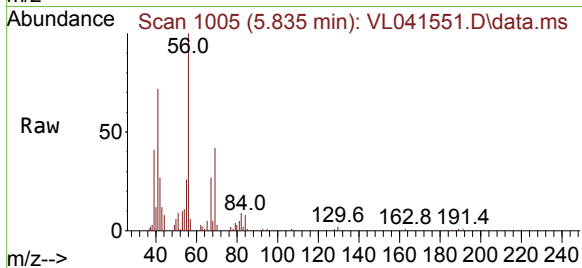
Tgt Ion: 42 Resp: 8424

Ion Ratio Lower Upper

42 100

72 1.0 31.2 46.8#

71 0.0 30.5 45.7#



#51

2-Hexanone

Concen: 0.031 ppbv

RT: 9.565 min Scan# 2165

Delta R.T. -0.006 min

Lab File: VL041551.D

Acq: 19 Aug 2024 17:11

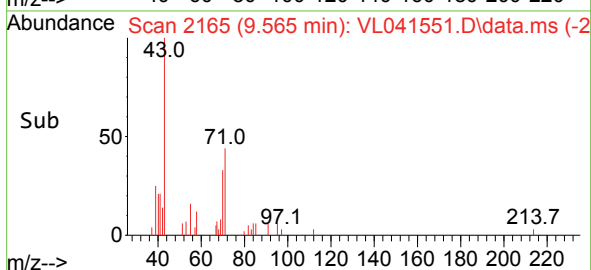
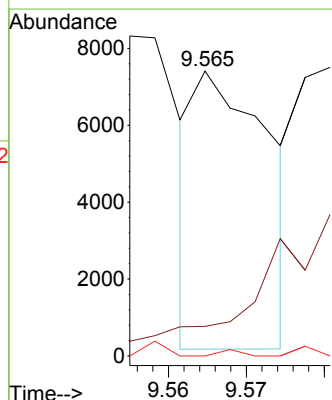
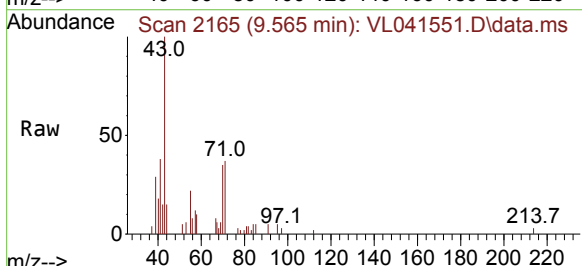
Tgt Ion: 43 Resp: 4796

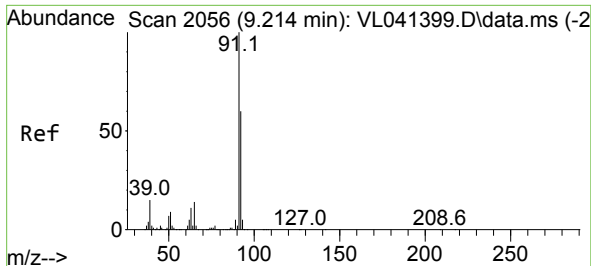
Ion Ratio Lower Upper

43 100

58 0.0 38.2 57.2#

98 0.0 0.3 0.5#

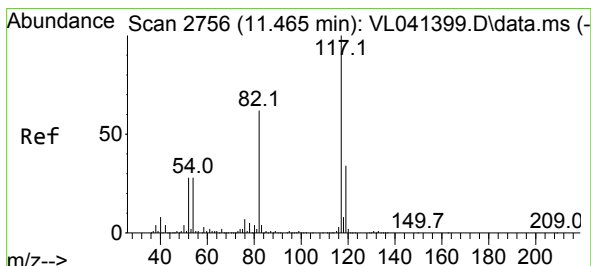
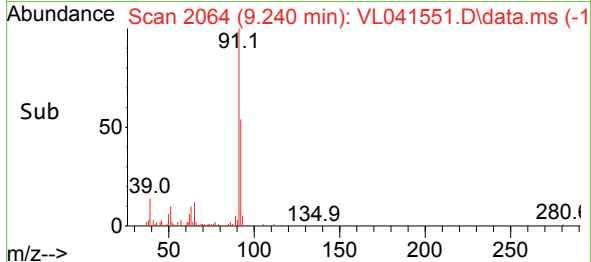
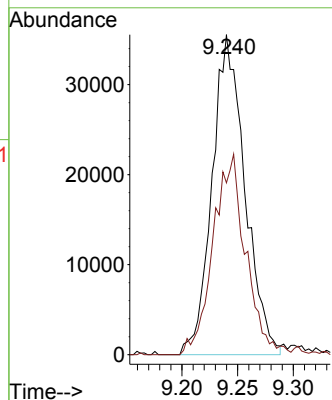
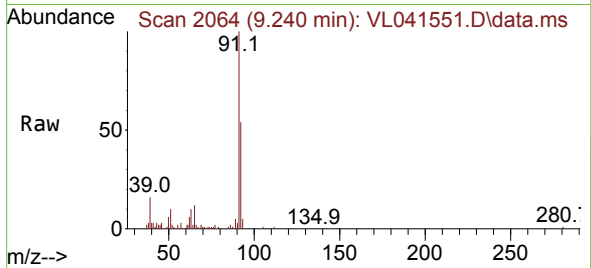




#53
Toluene
Concen: 0.329 ppbv
RT: 9.240 min Scan# 2056
Delta R.T. 0.000 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

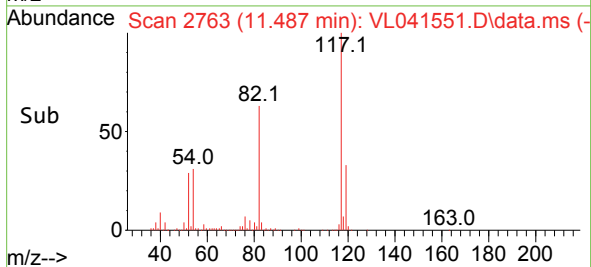
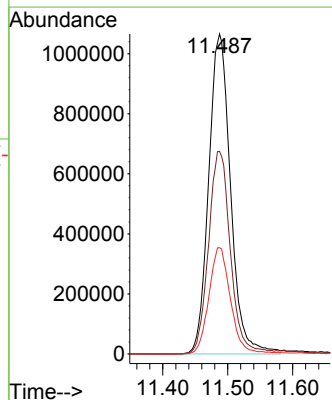
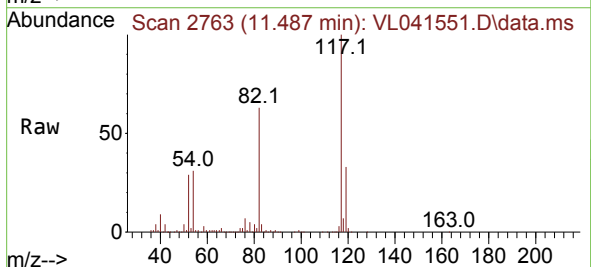
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

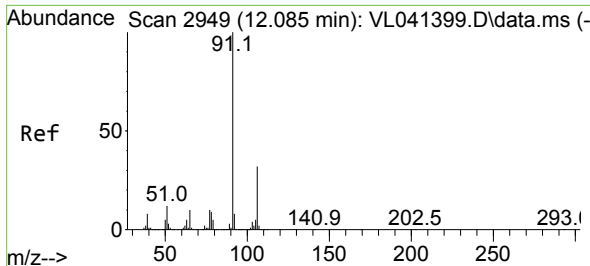
Tgt Ion: 91 Resp: 72847
Ion Ratio Lower Upper
91 100
92 63.5 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 2763
Delta R.T. -0.003 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 117 Resp: 2495945
Ion Ratio Lower Upper
117 100
82 65.0 51.0 76.6
119 33.4 45.2 67.8#

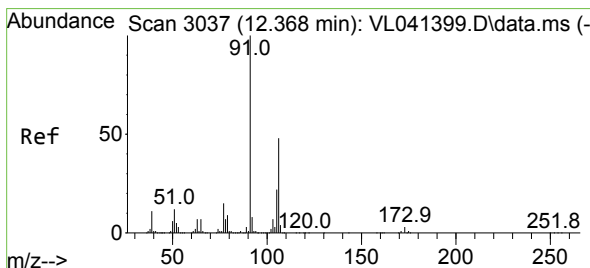
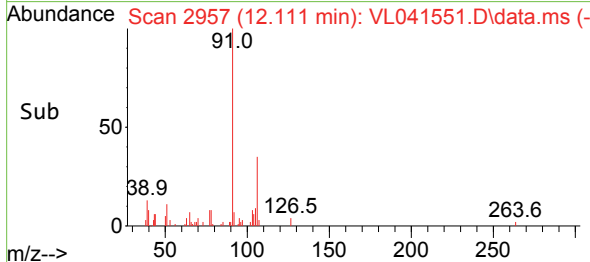
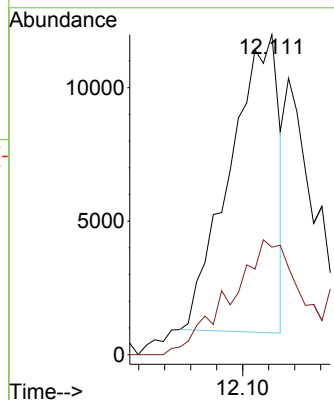
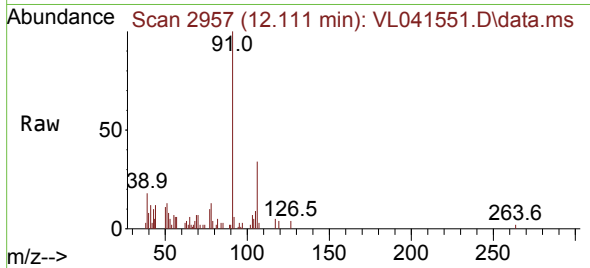




#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 12.111 min Scan# 2949
Delta R.T. 0.000 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

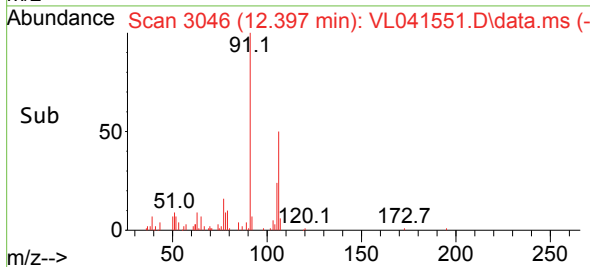
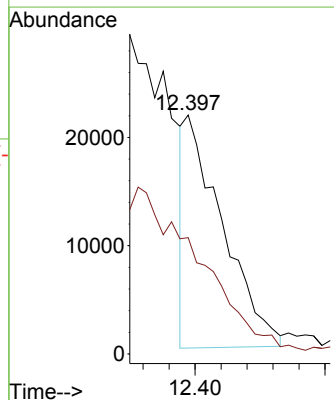
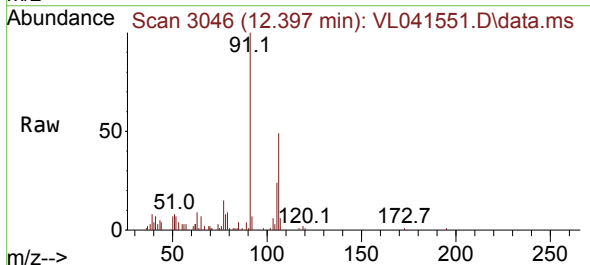
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

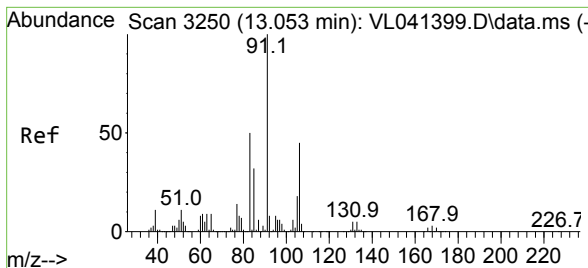
Tgt Ion: 91 Resp: 14519
Ion Ratio Lower Upper
91 100
106 33.8 25.8 38.8



#59
m/p-Xylene
Concen: 0.087 ppbv
RT: 12.397 min Scan# 3046
Delta R.T. 0.003 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 91 Resp: 21681
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#

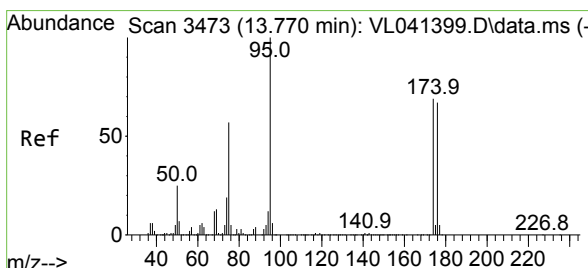
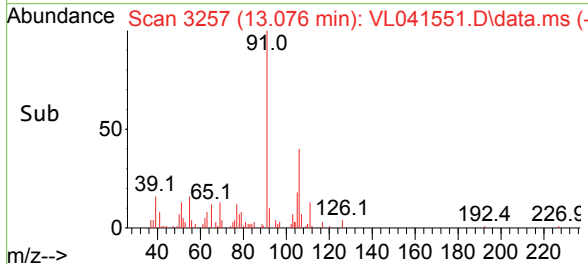
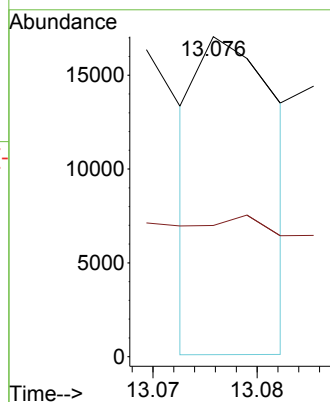
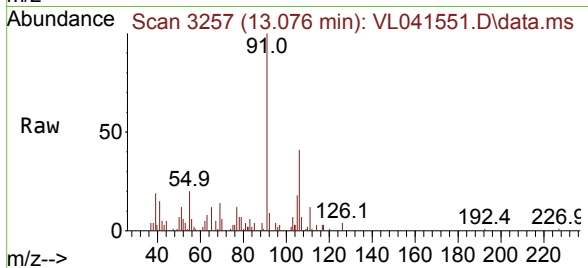




#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.076 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

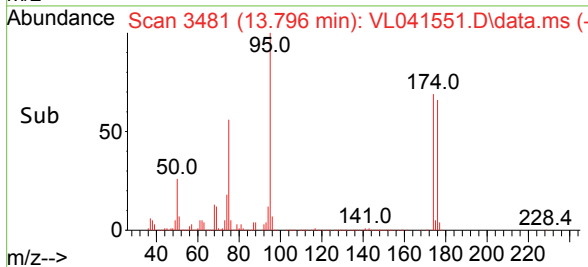
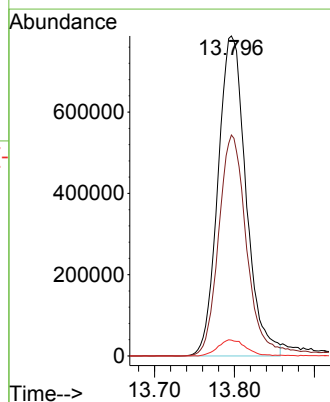
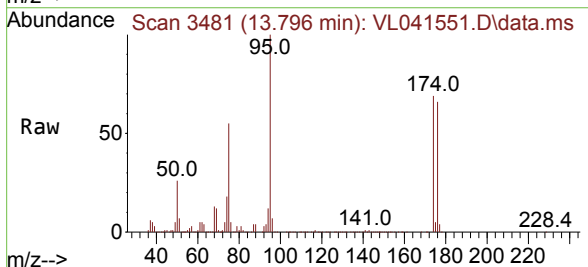
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

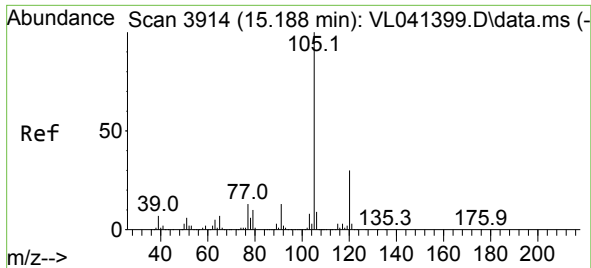
Tgt Ion: 91 Resp: 8891
Ion Ratio Lower Upper
91 100
106 201.1 23.1 69.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.980 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. -0.003 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion: 95 Resp: 1916973
Ion Ratio Lower Upper
95 100
174 71.6 56.3 84.5
175 5.3 4.0 6.0

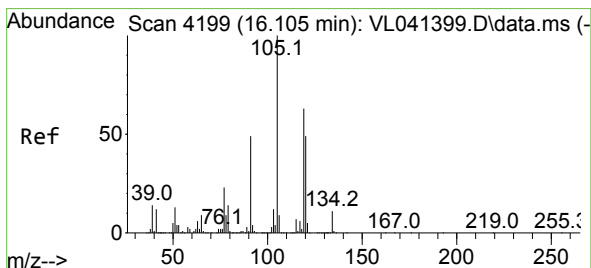
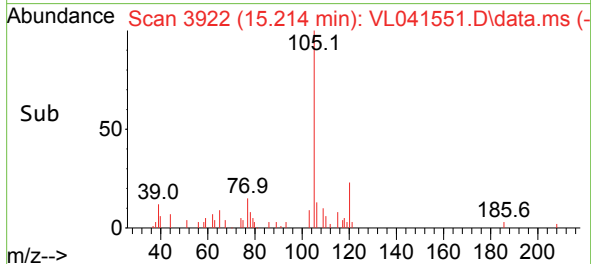
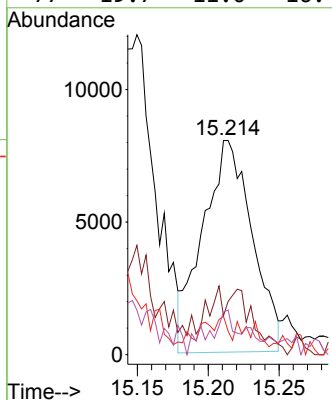
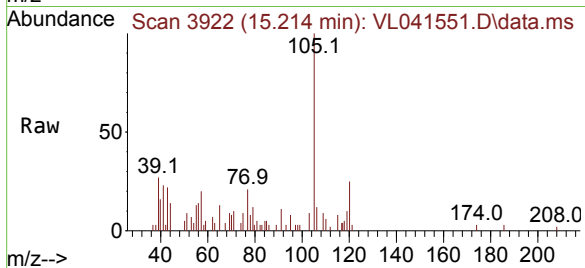




#72
4-Ethyltoluene
Concen: 0.070 ppbv
RT: 15.214 min Scan# 3914
Delta R.T. 0.000 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Instrument :
MSVOA_L
ClientSampleId :
SVIDL

Tgt Ion:105	Resp:	19434
Ion Ratio	Lower	Upper
105	100	
120	29.3	24.2 36.2
91	20.6	10.4 15.6#
77	19.7	11.0 16.4#



#74
1,2,4-Trimethylbenzene
Concen: 0.104 ppbv
RT: 16.124 min Scan# 4205
Delta R.T. -0.003 min
Lab File: VL041551.D
Acq: 19 Aug 2024 17:11

Tgt Ion:105	Resp:	28674
Ion Ratio	Lower	Upper
105	100	
120	41.0	39.5 59.3
91	10.8	39.8 59.8#
77	14.6	18.2 27.4#

