

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081224\
 Data File : VL041530.D
 Acq On : 12 Aug 2024 10:44
 Operator : SY/MD
 Sample : P3496-07DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 02:11:52 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 13 02:09:20 2024
 Response via : Initial Calibration

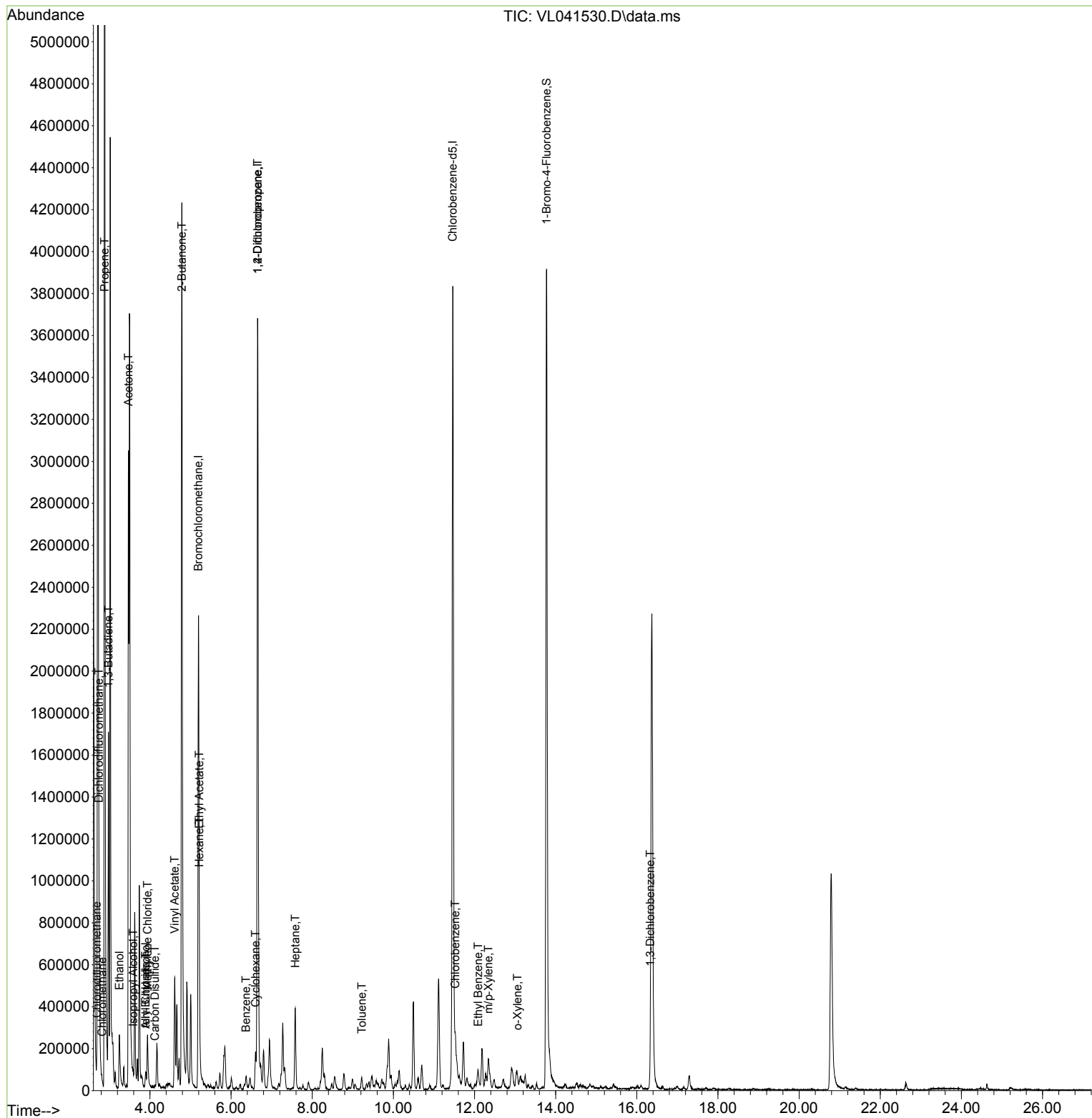
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.195	49	1058054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2796189	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2590114	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1992603	9.997	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.742	85	100374	0.551	ppbv	99
3) Chlorodifluoromethane	2.687	51	30825	0.245	ppbv	99
4) Chloromethane	2.825	50	6453	0.096	ppbv	95
9) Propene	2.883	41	2368753	40.938	ppbv	96
10) Heptane	7.584	43	83036	0.639	ppbv	# 24
13) Ethanol	3.246	45	299428	57.899	ppbv	91
15) Acetone	3.472	43	2625238	21.838	ppbv	# 77
16) 1,3-Butadiene	2.976	39	371634	5.786	ppbv	# 17
17) tert-Butyl alcohol	3.893	59	42476	0.387	ppbv	# 72
19) Isopropyl Alcohol	3.587	45	36488	0.519	ppbv	# 93
20) Methylene Chloride	3.941	84	79561	1.775	ppbv	95
21) Allyl Chloride	3.896	41	18803	0.238	ppbv	# 71
23) Vinyl Acetate	4.610	43	271263	2.954	ppbv	# 1
25) Ethyl Acetate	5.214	43	62776	0.263	ppbv	# 82
26) Hexane	5.217	57	126488	1.277	ppbv	# 9
27) Carbon Disulfide	4.127	76	5771	0.050	ppbv	# 6
30) Cyclohexane	6.603	84	53575	0.664	ppbv	# 86
34) 2-Butanone	4.787	43	5185202	38.335	ppbv	99
36) Benzene	6.365	78	20345	0.100	ppbv	96
39) 1,2-Dichloropropane	6.655	63	693063	8.860	ppbv	# 25
53) Toluene	9.224	91	17307	0.076	ppbv	# 51
57) Chlorobenzene	11.526	112	5751	0.031	ppbv	# 55
58) Ethyl Benzene	12.092	91	59634	0.200	ppbv	# 85
59) m/p-Xylene	12.343	91	126611	0.491	ppbv	93
60) o-Xylene	13.060	91	19629	0.081	ppbv	# 20
75) 1,3-Dichlorobenzene	16.333	146	7084	0.039	ppbv	# 23

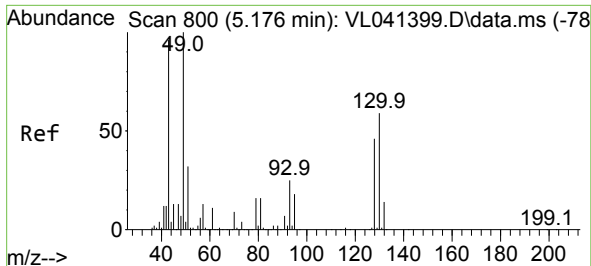
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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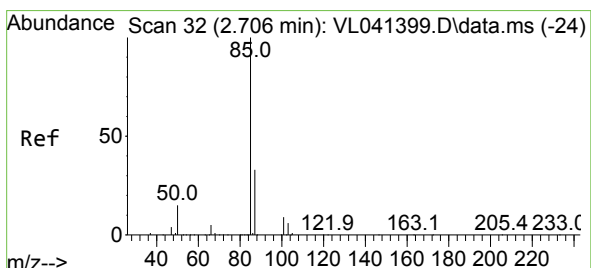
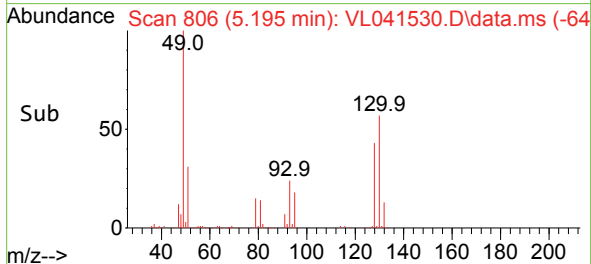
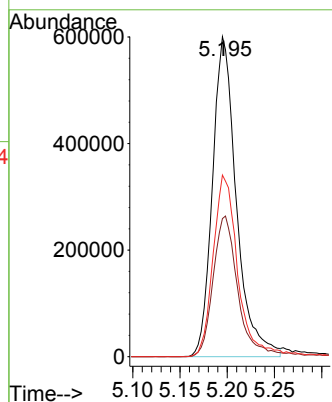
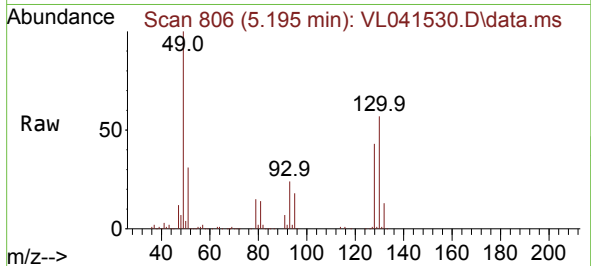




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

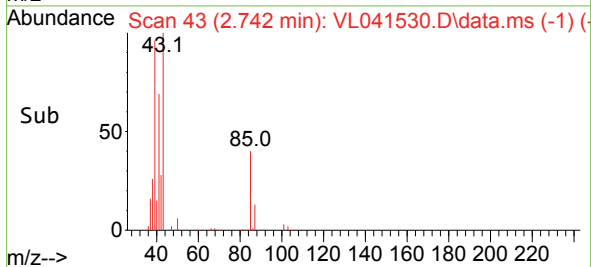
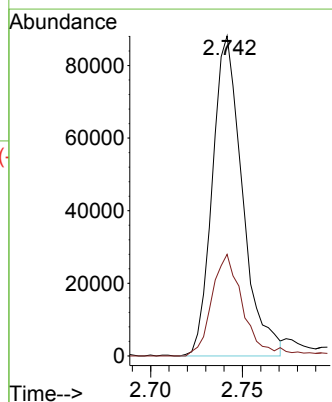
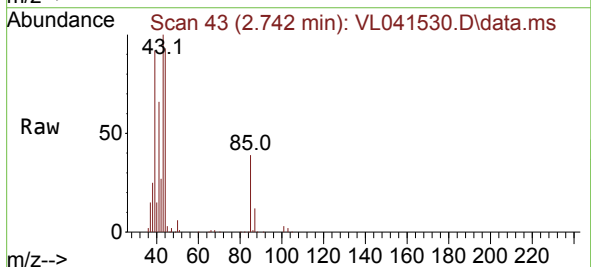
Instrument :
MSVOA_L
ClientSampleId :

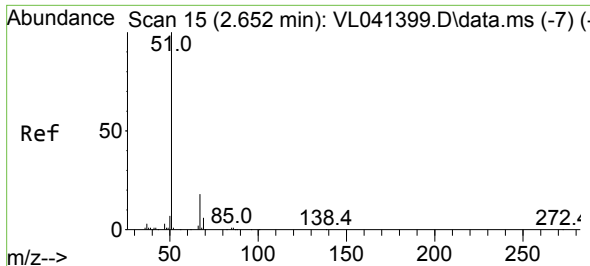
Tgt Ion: 49 Resp: 1058054
Ion Ratio Lower Upper
49 100
128 46.4 23.8 71.4
130 60.1 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.551 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.013 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 85 Resp: 100374
Ion Ratio Lower Upper
85 100
87 31.7 26.0 39.0

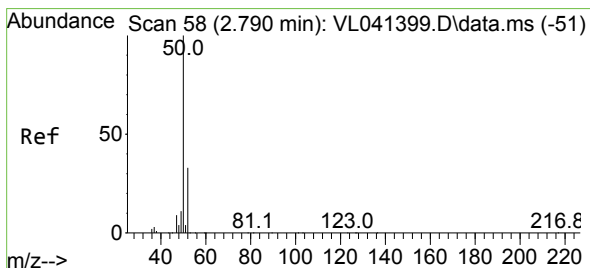
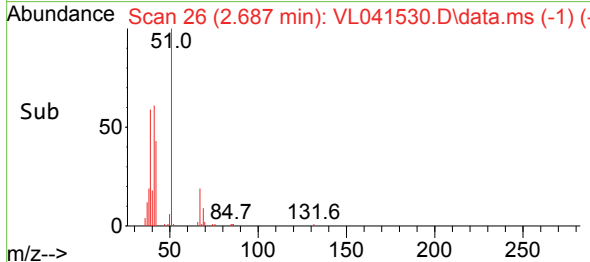
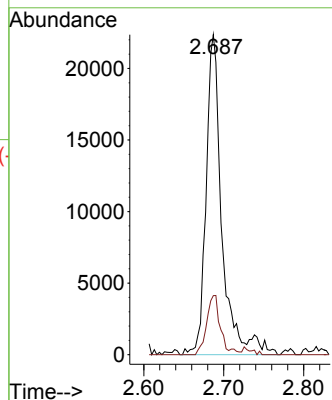
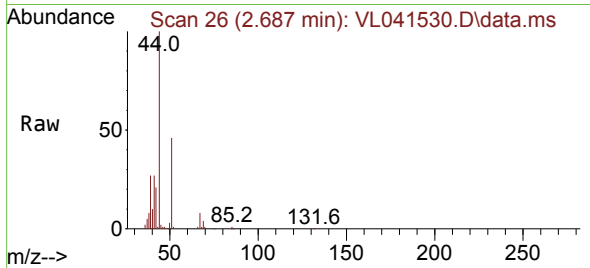




#3
Chlorodifluoromethane
Concen: 0.245 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

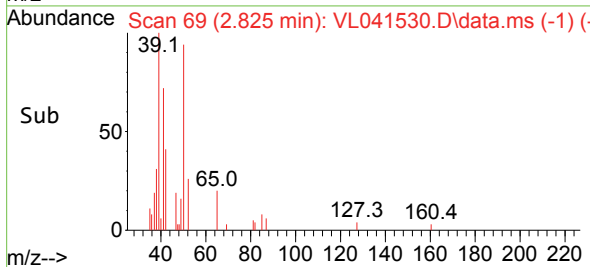
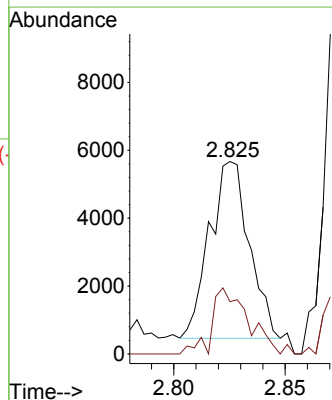
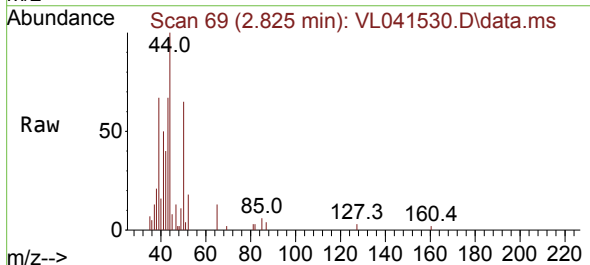
Instrument :
MSVOA_L
ClientSampleId :

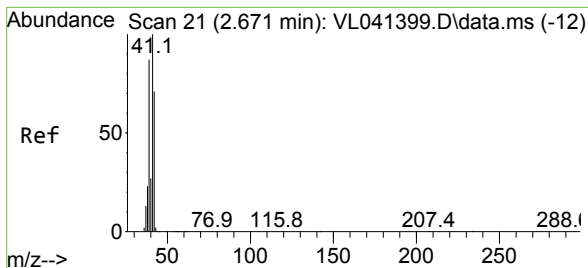
Tgt Ion: 51 Resp: 30825
Ion Ratio Lower Upper
51 100
67 17.5 14.5 21.7



#4
Chloromethane
Concen: 0.096 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.013 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 50 Resp: 6453
Ion Ratio Lower Upper
50 100
52 29.6 26.1 39.1





#9

Propene

Concen: 40.938 ppbv

RT: 2.883 min Scan# 81

Delta R.T. 0.190 min

Lab File: VL041530.D

Acq: 12 Aug 2024 10:44

Instrument :

MSVOA_L

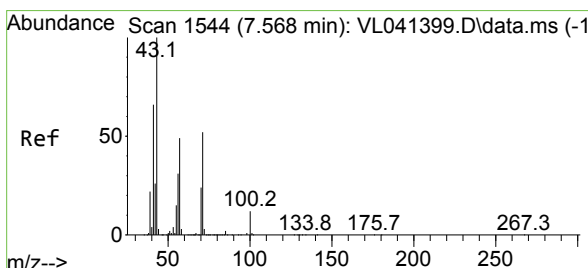
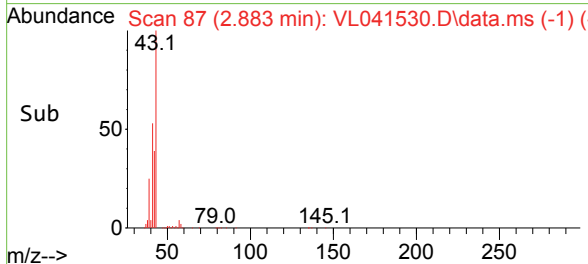
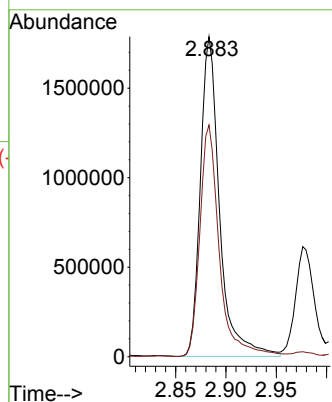
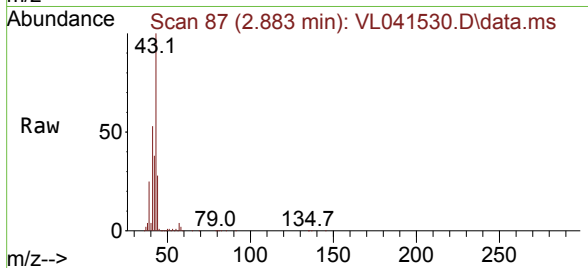
ClientSampleId :

Tgt Ion: 41 Resp: 2368753

Ion Ratio Lower Upper

41 100

42 73.3 55.9 83.9



#10

Heptane

Concen: 0.639 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. 0.006 min

Lab File: VL041530.D

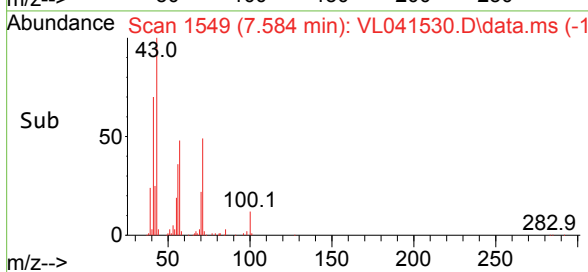
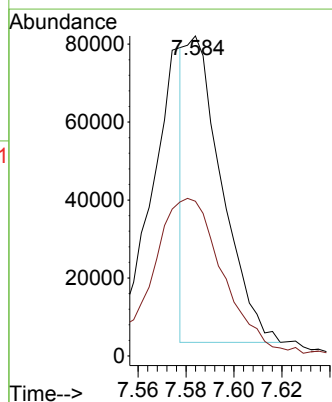
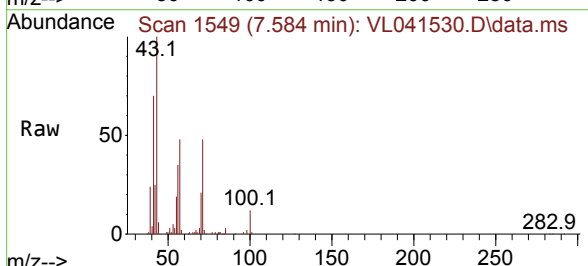
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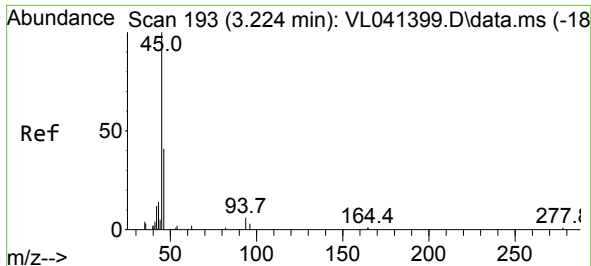
Tgt Ion: 43 Resp: 83036

Ion Ratio Lower Upper

43 100

57 103.5 40.5 60.7#

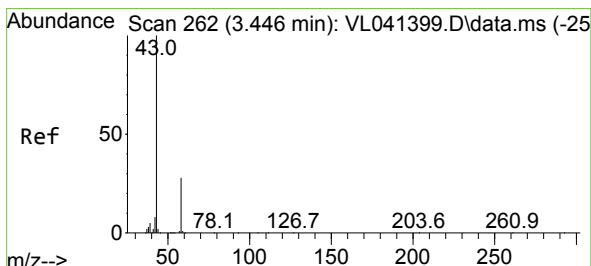
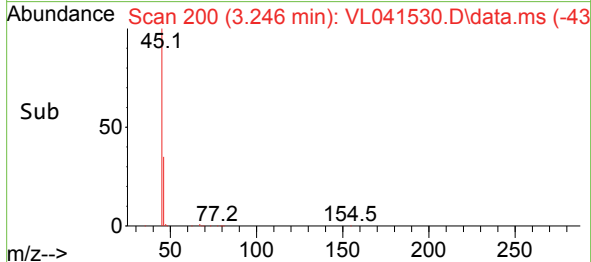
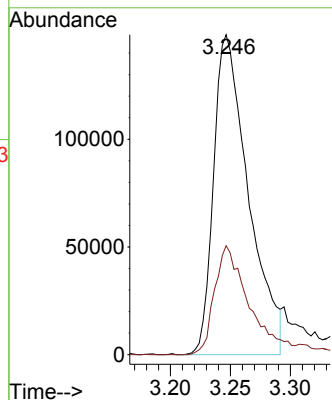
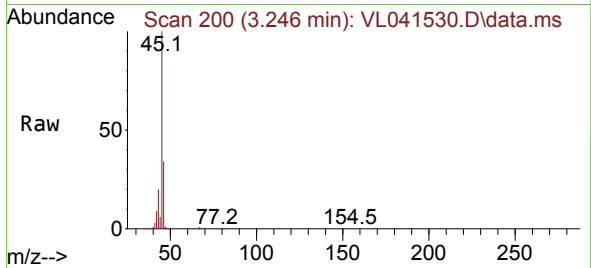




#13
 Ethanol
 Concen: 57.899 ppbv
 RT: 3.246 min Scan# 20
 Delta R.T. 0.003 min
 Lab File: VL041530.D
 Acq: 12 Aug 2024 10:44

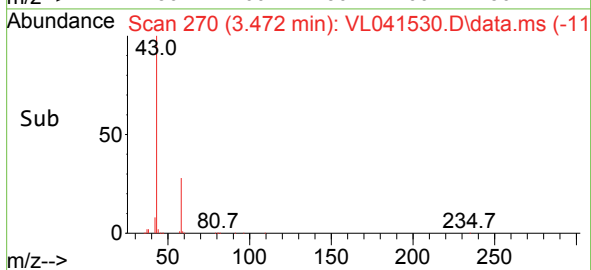
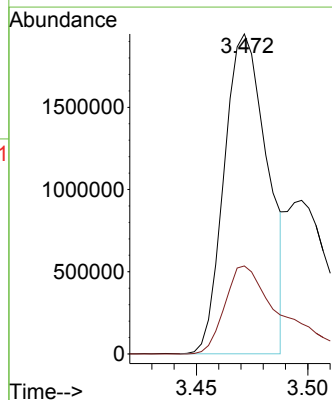
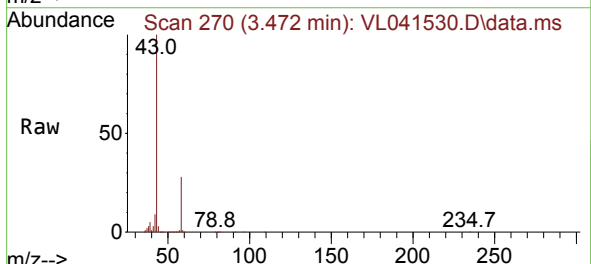
Instrument :
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 ClientSampleId :

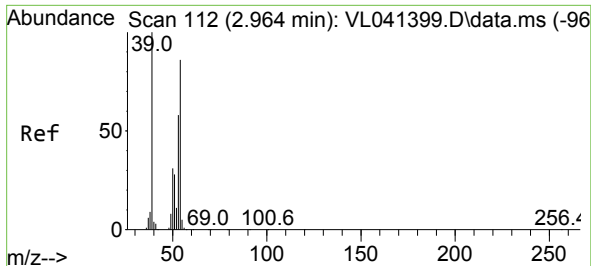
Tgt Ion: 45 Resp: 299428
 Ion Ratio Lower Upper
 45 100
 46 38.3 13.4 53.4



#15
 Acetone
 Concen: 21.838 ppbv
 RT: 3.472 min Scan# 270
 Delta R.T. 0.003 min
 Lab File: VL041530.D
 Acq: 12 Aug 2024 10:44

Tgt Ion: 43 Resp: 2625238
 Ion Ratio Lower Upper
 43 100
 58 38.7 21.4 32.2#

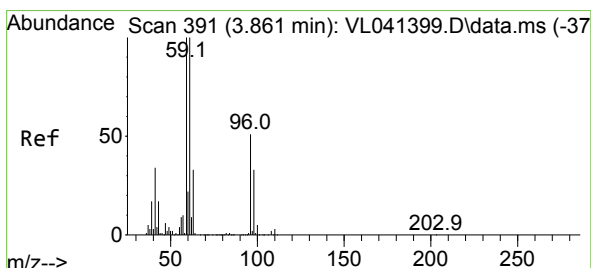
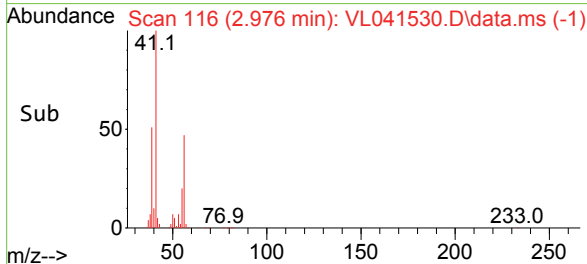
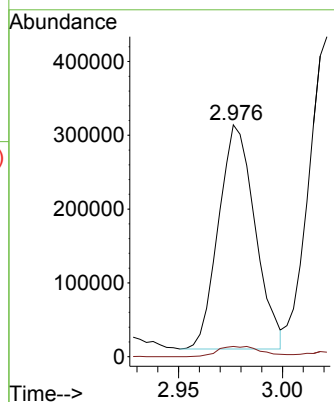
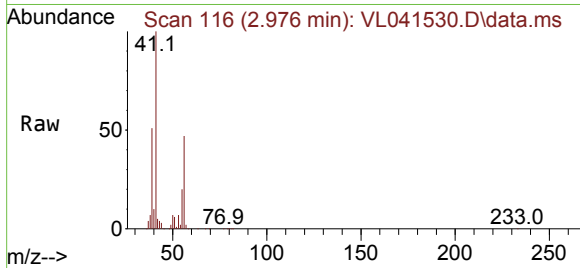




#16
1,3-Butadiene
Concen: 5.786 ppbv
RT: 2.976 min Scan# 116
Delta R.T. -0.010 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

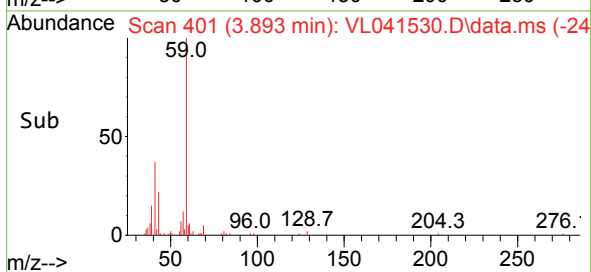
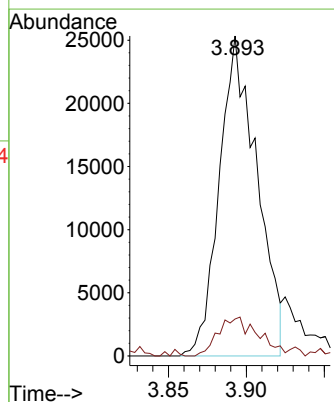
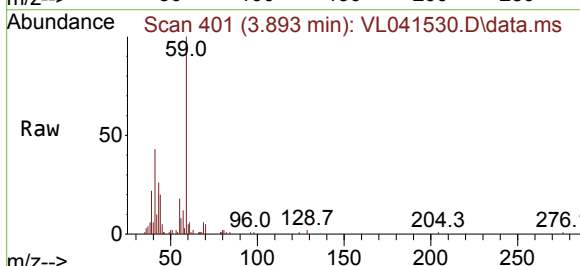
Instrument :
MSVOA_L
ClientSampleId :

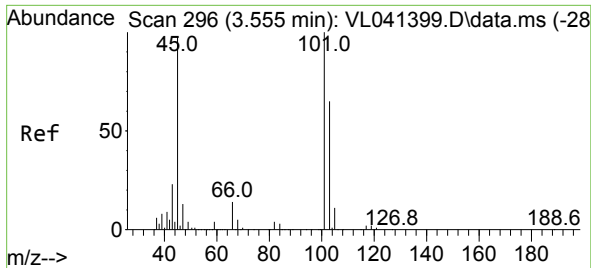
Tgt Ion: 39 Resp: 371634
Ion Ratio Lower Upper
39 100
54 5.6 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.387 ppbv
RT: 3.893 min Scan# 401
Delta R.T. 0.016 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

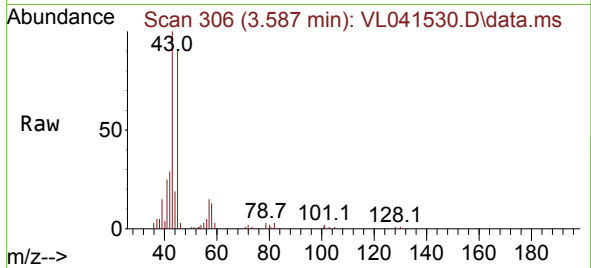
Tgt Ion: 59 Resp: 42476
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



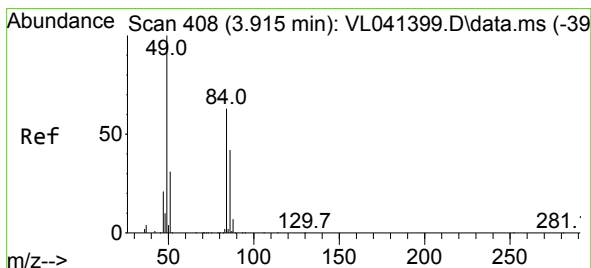
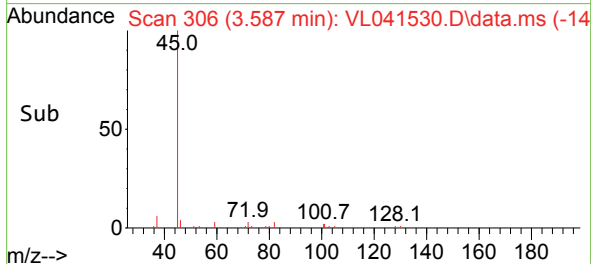
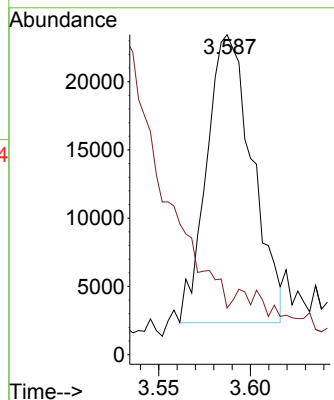


#19
Isopropyl Alcohol
Concen: 0.519 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.013 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Instrument :
MSVOA_L
ClientSampleId :

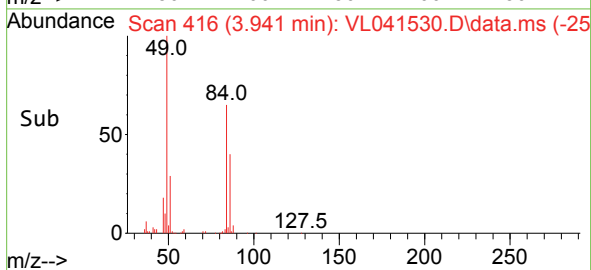
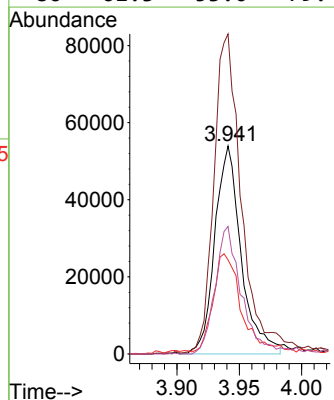
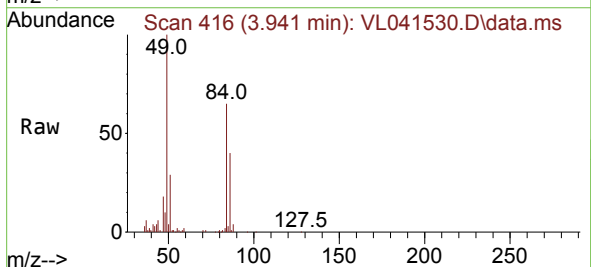


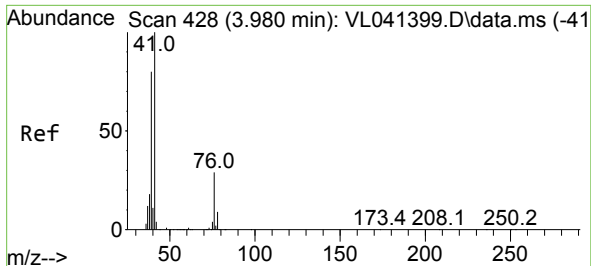
Tgt Ion: 45 Resp: 36488
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#



#20
Methylene Chloride
Concen: 1.775 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.010 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 84 Resp: 79561
Ion Ratio Lower Upper
84 100
49 153.3 126.6 190.0
51 43.7 38.6 58.0
86 61.3 53.0 79.4

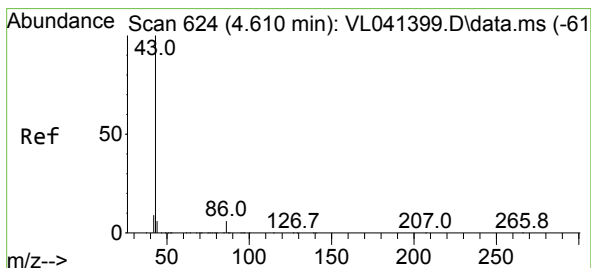
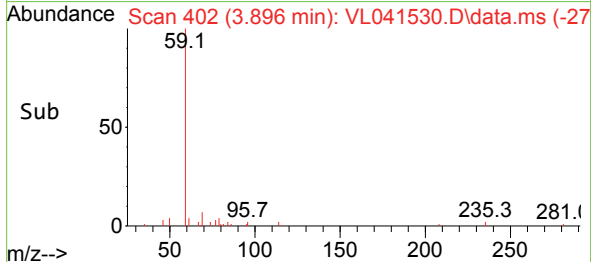
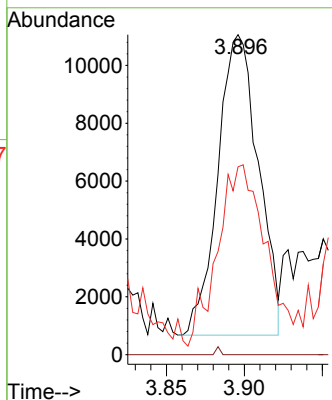
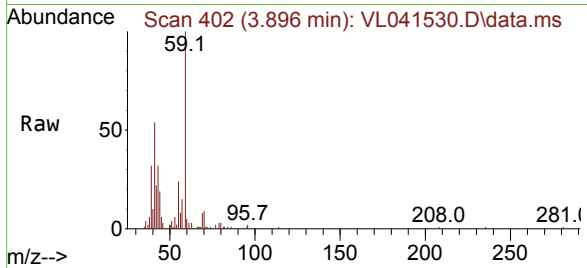




#21
 Allyl Chloride
 Concen: 0.238 ppbv
 RT: 3.896 min Scan# 402
 Delta R.T. -0.100 min
 Lab File: VL041530.D
 Acq: 12 Aug 2024 10:44

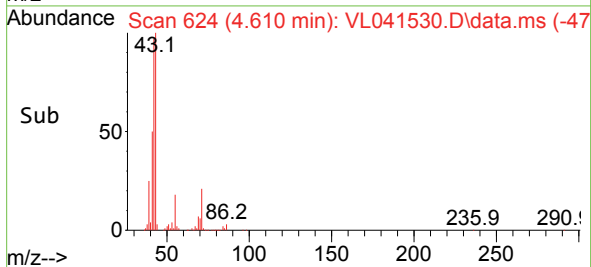
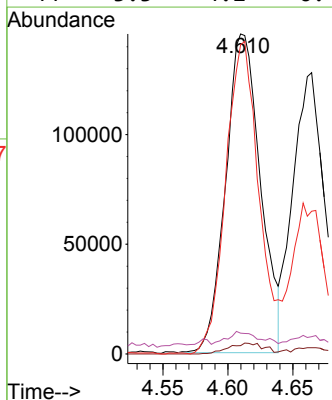
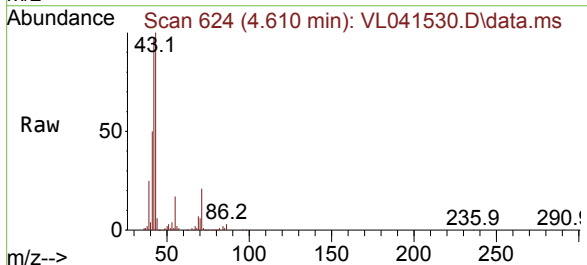
Instrument :
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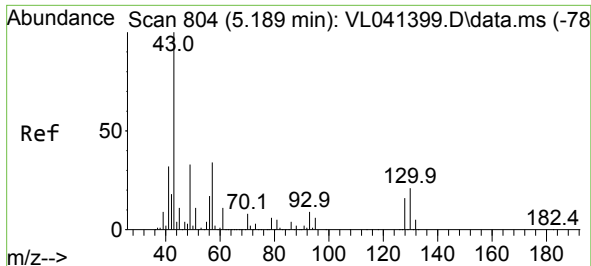
Tgt Ion: 41 Resp: 18803
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 63.5 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 2.954 ppbv
 RT: 4.610 min Scan# 624
 Delta R.T. -0.016 min
 Lab File: VL041530.D
 Acq: 12 Aug 2024 10:44

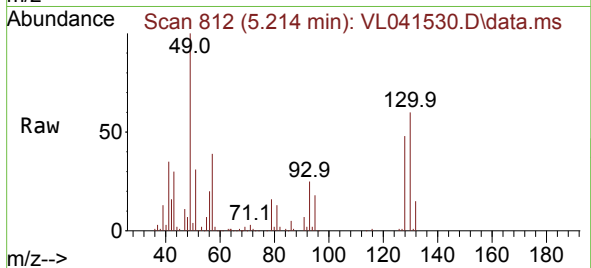
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 Ion Ratio Lower Upper
 43 100
 86 2.6 4.6 6.8#
 42 96.7 7.9 11.9#
 44 3.3 4.2 6.4#



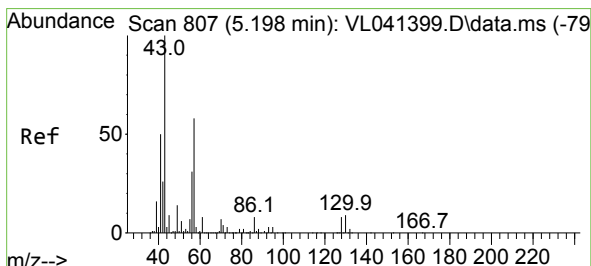
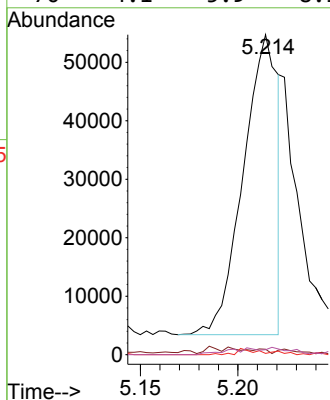
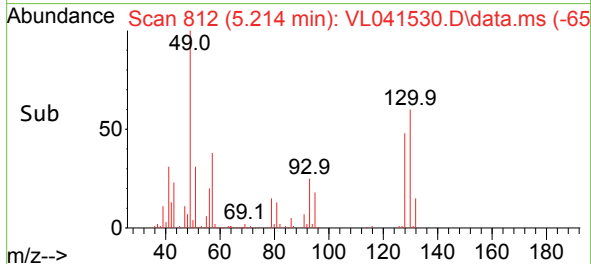


#25
Ethyl Acetate
Concen: 0.263 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.013 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Instrument :
MSVOA_L
ClientSampleId :

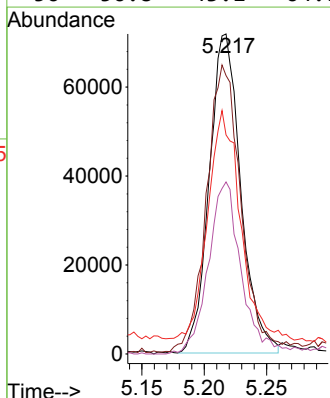
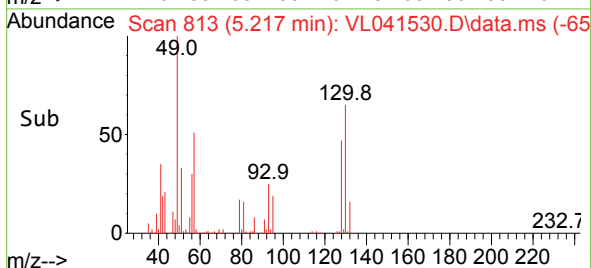
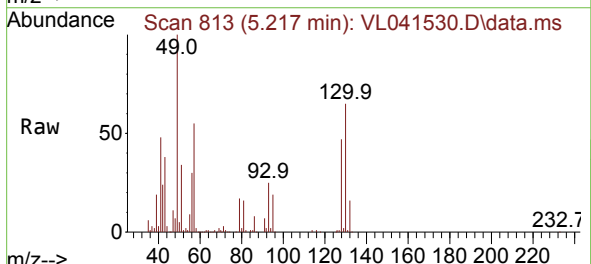


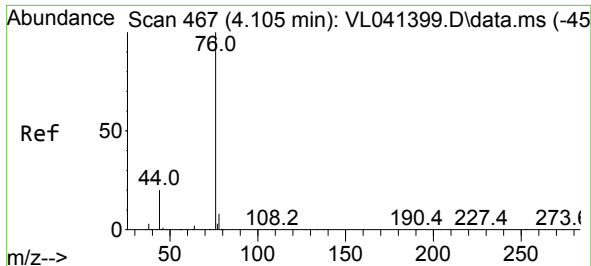
Tgt Ion: 43	Resp: 62776
Ion Ratio	Lower Upper
43 100	
45 3.3	8.5 12.7#
61 1.8	8.0 12.0#
70 4.1	5.9 8.9#



#26
Hexane
Concen: 1.277 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.006 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt	Ion: 57	Resp: 126488	
Ion	Ratio	Lower	Upper
57	100		
41	101.9	74.0	111.0
43	0.0	193.6	290.4#
56	56.8	43.1	64.7

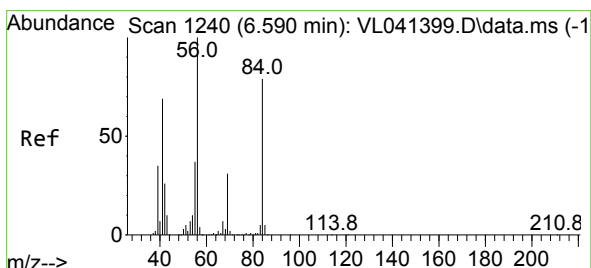
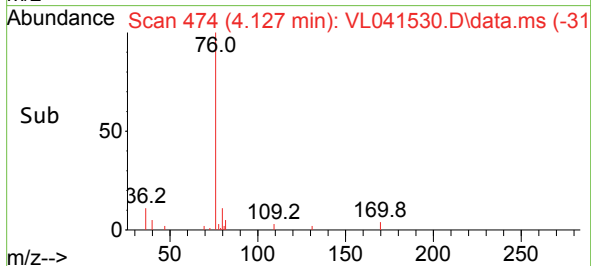
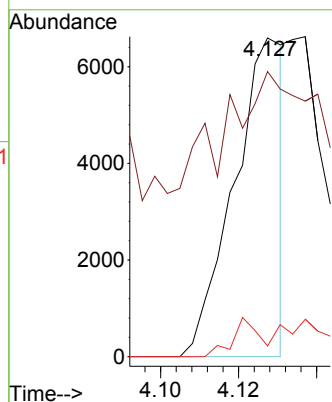
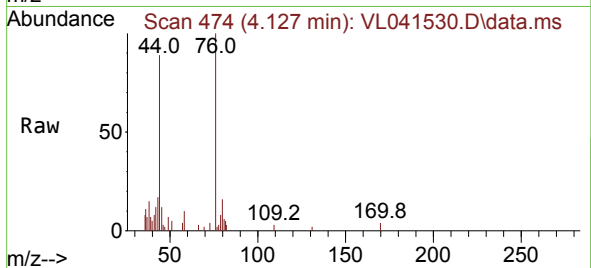




#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 4.127 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

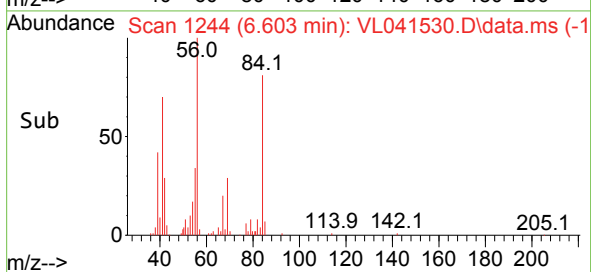
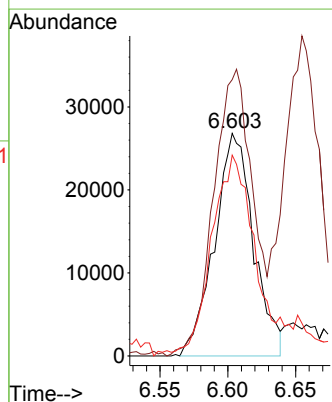
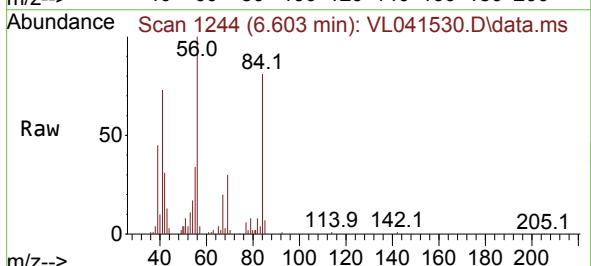
Instrument :
MSVOA_L
ClientSampleId :

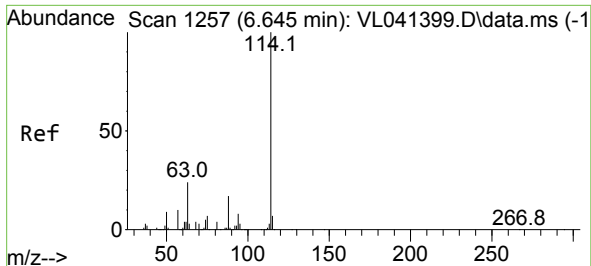
Tgt Ion: 76 Resp: 5771
Ion Ratio Lower Upper
76 100
44 75.1 15.6 23.4#
78 22.7 7.7 11.5#



#30
Cyclohexane
Concen: 0.664 ppbv
RT: 6.603 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 84 Resp: 53575
Ion Ratio Lower Upper
84 100
56 126.8 111.2 166.8
41 106.8 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041530.D

Acq: 12 Aug 2024 10:44

Instrument :

MSVOA_L

ClientSampleId :

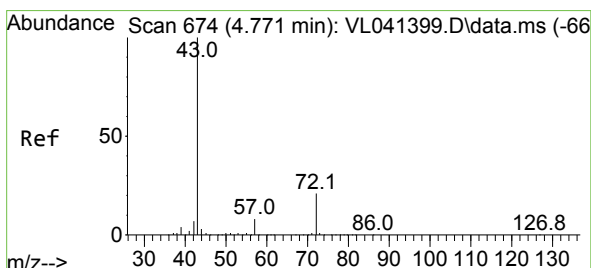
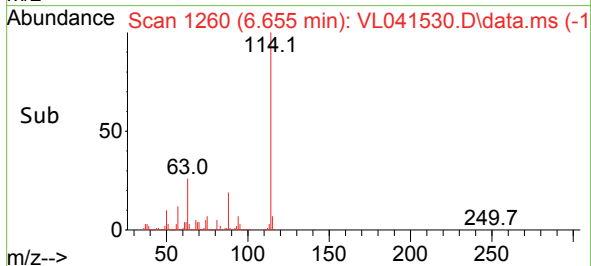
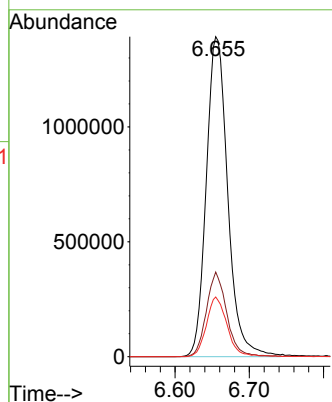
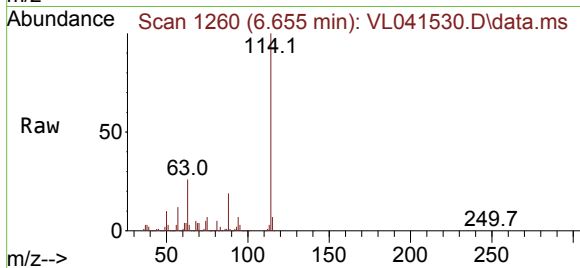
Tgt Ion:114 Resp: 2796189

Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 38.335 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.003 min

Lab File: VL041530.D

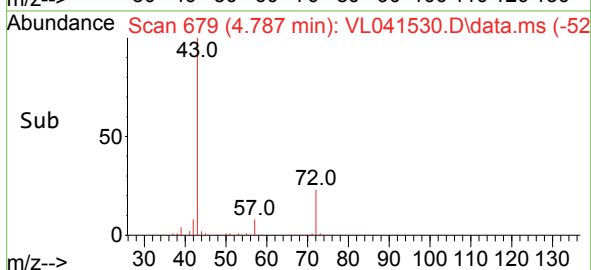
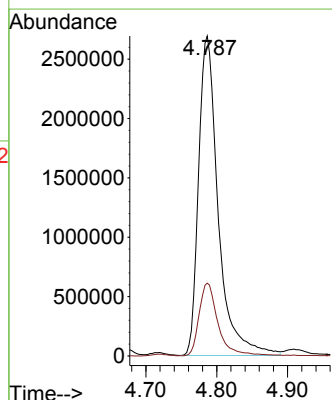
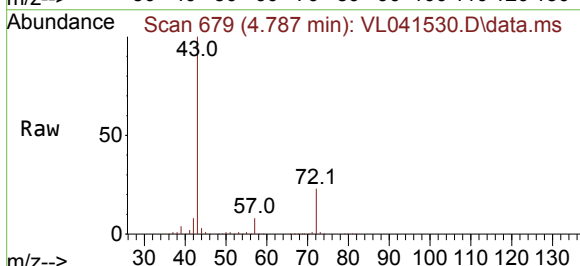
Acq: 12 Aug 2024 10:44

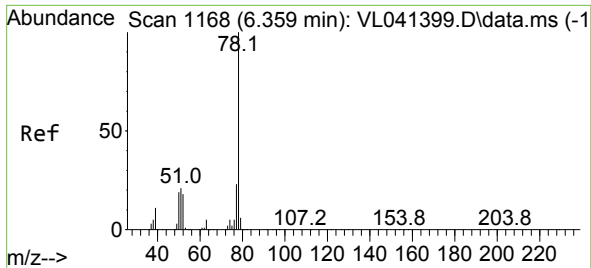
Tgt Ion: 43 Resp: 5185202

Ion Ratio Lower Upper

43 100

72 22.2 17.3 25.9

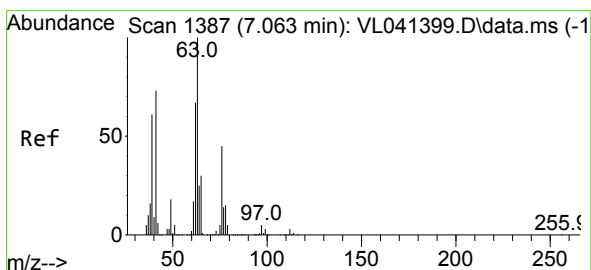
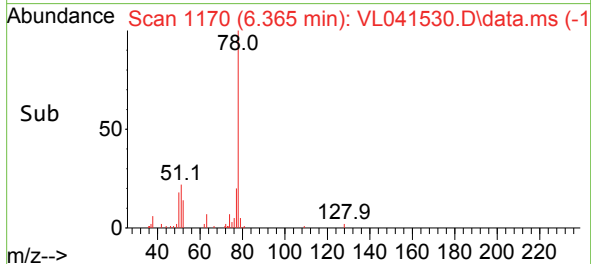
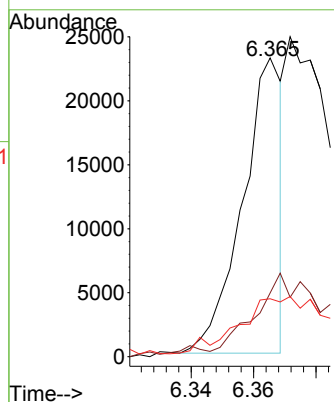
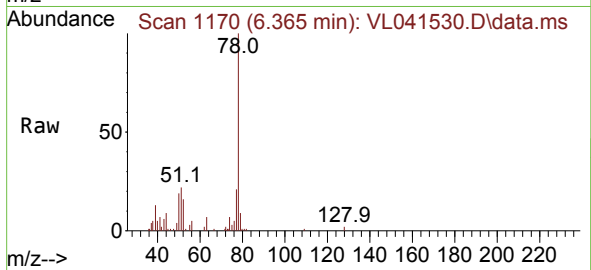




#36
Benzene
Concen: 0.100 ppbv
RT: 6.365 min Scan# 1168
Delta R.T. -0.003 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

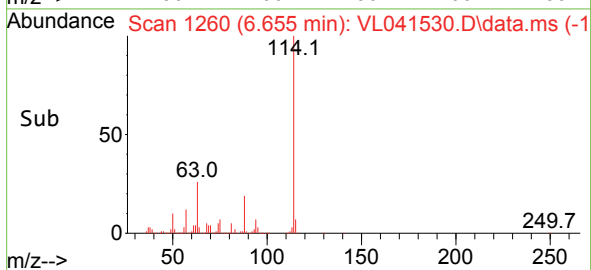
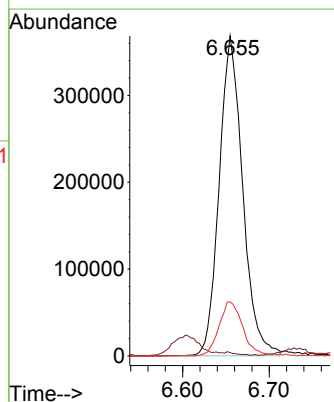
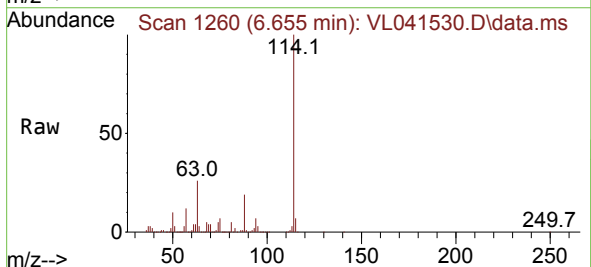
Instrument :
MSVOA_L
ClientSampleId :

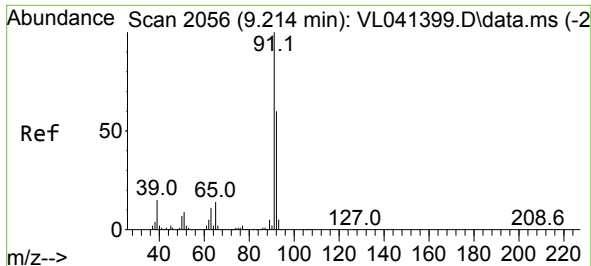
Tgt Ion: 78 Resp: 20345
Ion Ratio Lower Upper
78 100
77 19.7 18.1 27.1
50 18.4 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.860 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.418 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 63 Resp: 693063
Ion Ratio Lower Upper
63 100
41 0.1 58.3 87.5#
62 16.8 53.9 80.9#

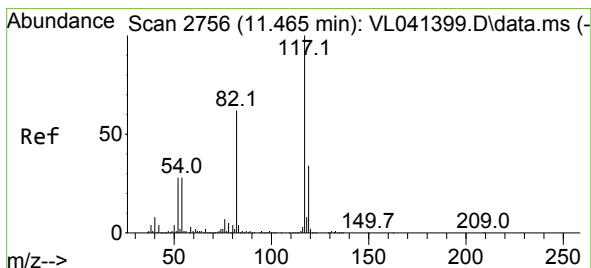
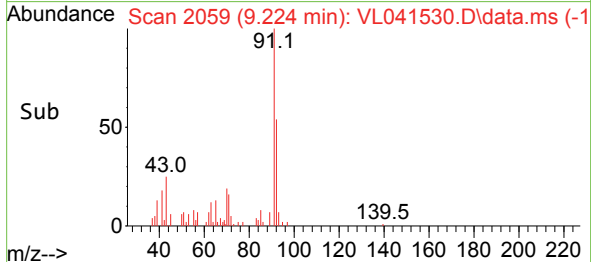
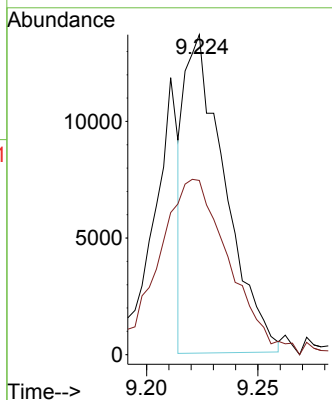
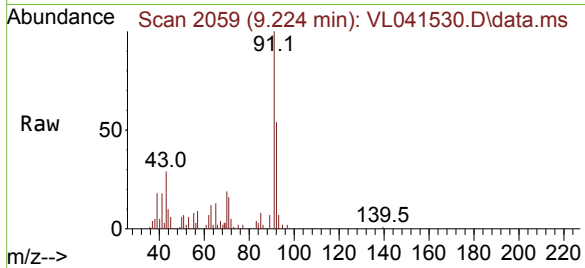




#53
Toluene
Concen: 0.076 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

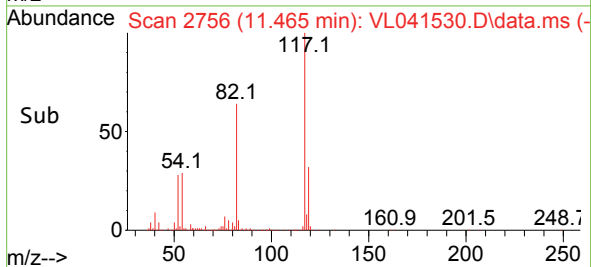
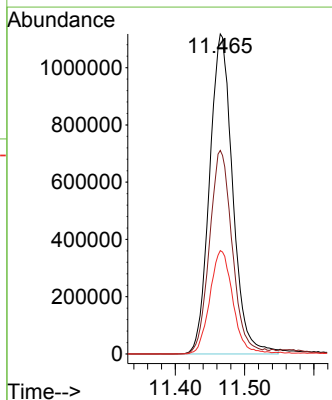
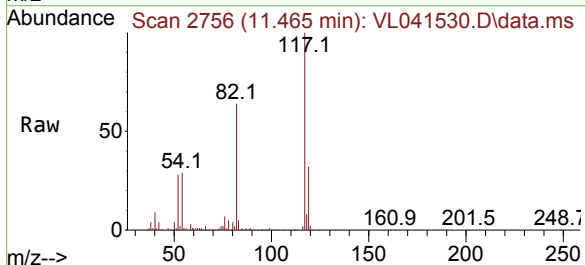
Instrument :
MSVOA_L
ClientSampleId :

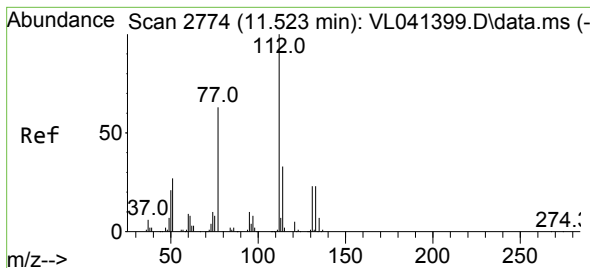
Tgt Ion: 91 Resp: 17307
Ion Ratio Lower Upper
91 100
92 98.2 48.7 73.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.000 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 117 Resp: 2590114
Ion Ratio Lower Upper
117 100
82 63.4 51.0 76.6
119 32.5 45.2 67.8#





#57

Chlorobenzene

Concen: 0.031 ppbv

RT: 11.526 min Scan# 21

Delta R.T. 0.003 min

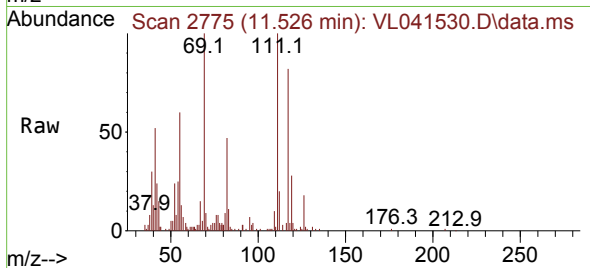
Lab File: VL041530.D

Acq: 12 Aug 2024 10:44

Instrument :

MSVOA_L

ClientSampleId :



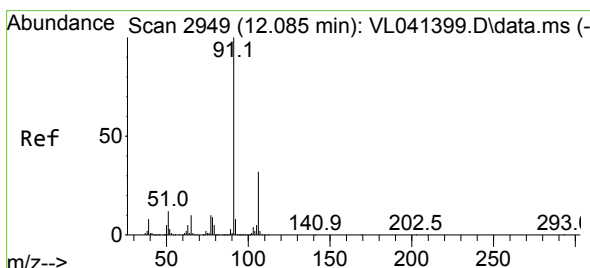
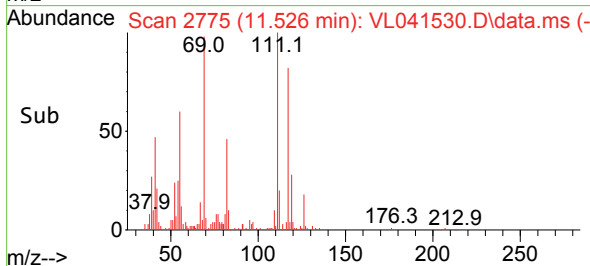
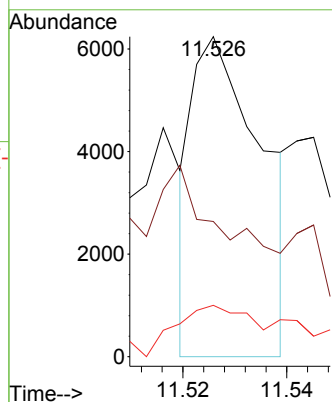
Tgt Ion:112 Resp: 5751

Ion Ratio Lower Upper

112 100

77 23.8 51.1 76.7#

114 13.9 29.5 36.1#



#58

Ethyl Benzene

Concen: 0.200 ppbv

RT: 12.092 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VL041530.D

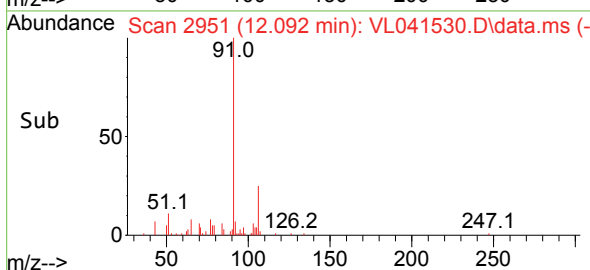
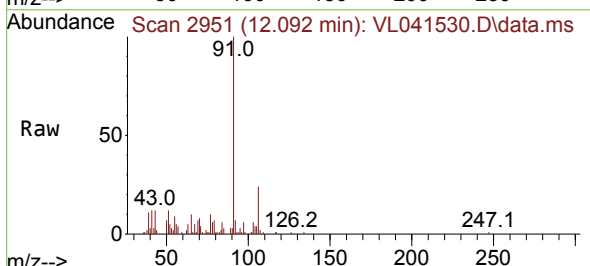
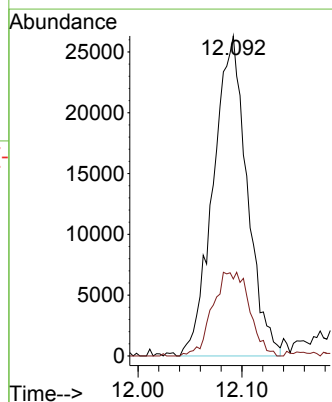
Acq: 12 Aug 2024 10:44

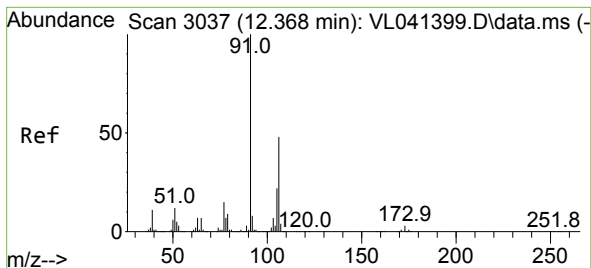
Tgt Ion: 91 Resp: 59634

Ion Ratio Lower Upper

91 100

106 24.0 25.8 38.8#

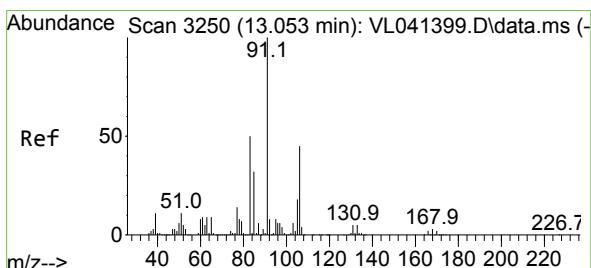
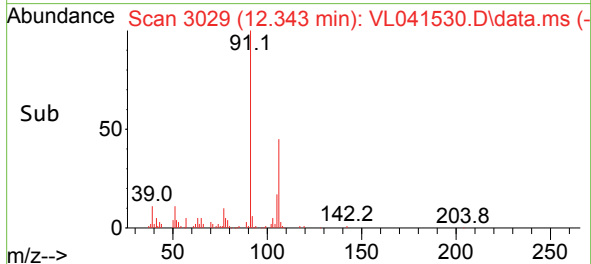
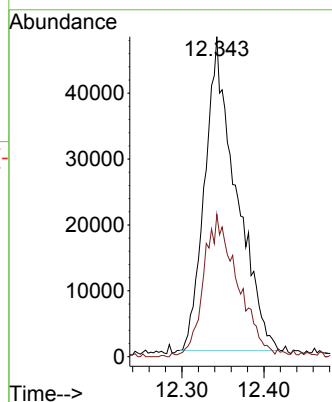
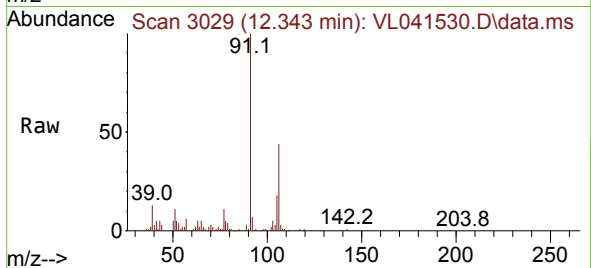




#59
m/p-Xylene
Concen: 0.491 ppbv
RT: 12.343 min Scan# 3037
Delta R.T. -0.029 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

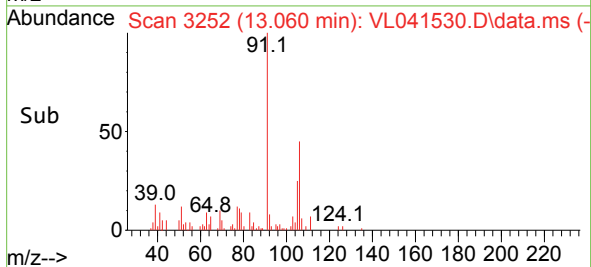
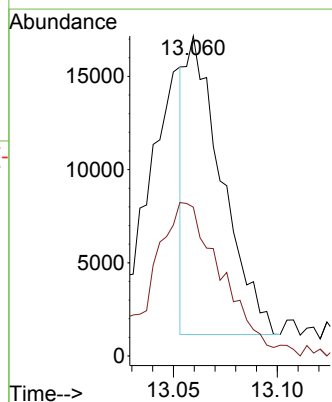
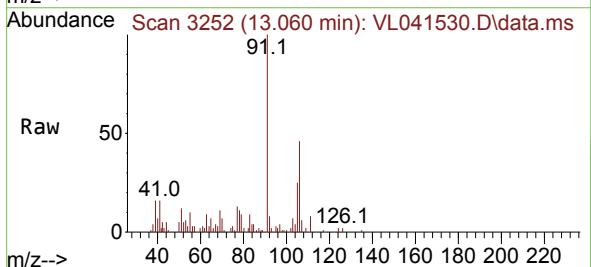
Instrument :
MSVOA_L
ClientSampleId :

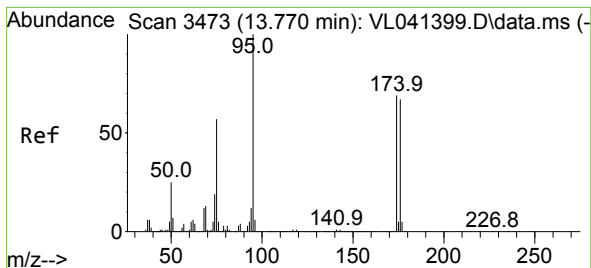
Tgt Ion: 91 Resp: 126611
Ion Ratio Lower Upper
91 100
106 49.7 36.3 54.5



#60
o-Xylene
Concen: 0.081 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VL041530.D
Acq: 12 Aug 2024 10:44

Tgt Ion: 91 Resp: 19629
Ion Ratio Lower Upper
91 100
106 99.0 23.1 69.3#

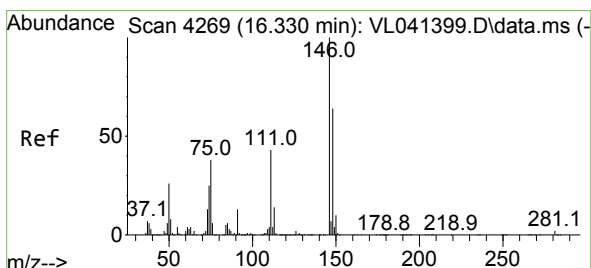
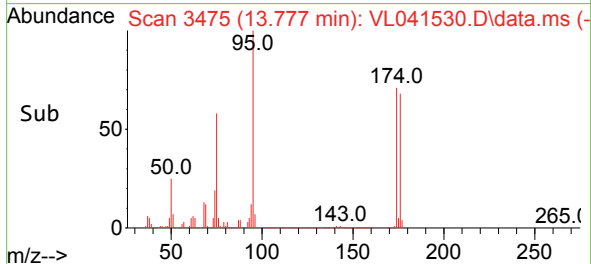
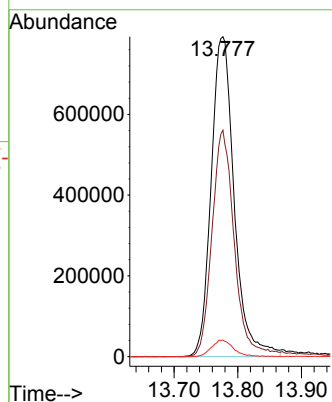
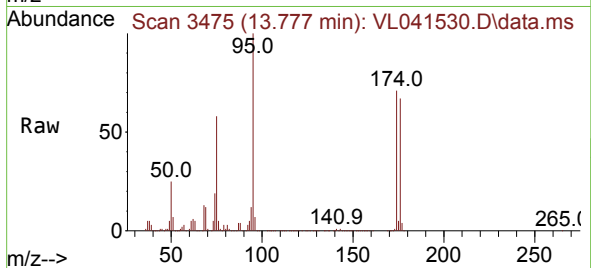




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.997 ppbv
 RT: 13.777 min Scan# 3473
 Delta R.T. 0.003 min
 Lab File: VL041530.D
 Acq: 12 Aug 2024 10:44

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 1992603
 Ion Ratio Lower Upper
 95 100
 174 70.7 56.3 84.5
 175 5.1 4.0 6.0



#75
 1,3-Dichlorobenzene
 Concen: 0.039 ppbv
 RT: 16.333 min Scan# 4270
 Delta R.T. 0.006 min
 Lab File: VL041530.D
 Acq: 12 Aug 2024 10:44

Tgt Ion: 146 Resp: 7084
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.6 67.8#
 148 0.0 32.3 96.8#

