

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040496.D
 Acq On : 22 Jun 2023 22:07
 Operator : SY/MD
 Sample : 03300-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Quant Time: Jun 23 01:32:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

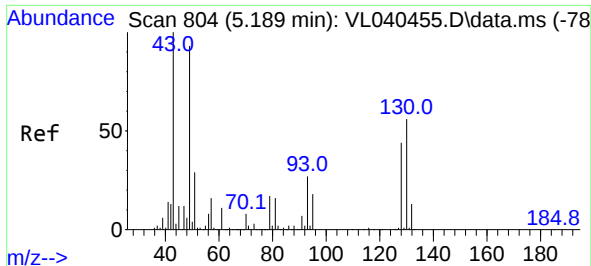
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.182	49	1019605	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2517915	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.452	117	2397210	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1977178	9.993	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	24693	0.111	ppbv	98
9) Propene	2.703	41	12863	0.250	ppbv	86
10) Heptane	7.568	43	17658	0.151	ppbv	86
13) Ethanol	3.234	45	1234973	115.806	ppbv	98
15) Acetone	3.462	43	1626606	13.227	ppbv	97
16) 1,3-Butadiene	2.960	39	13848	0.231	ppbv #	14
17) tert-Butyl alcohol	3.883	59	62497	0.618	ppbv	97
19) Isopropyl Alcohol	3.571	45	1502271	25.344	ppbv #	95
20) Methylene Chloride	3.925	84	108152	2.061	ppbv	98
21) Allyl Chloride	3.880	41	20863	0.300	ppbv #	64
23) Vinyl Acetate	4.607	43	148056	1.233	ppbv #	90
25) Ethyl Acetate	5.201	43	91793	0.412	ppbv #	83
26) Hexane	5.205	57	82809	0.785	ppbv #	56
27) Carbon Disulfide	4.118	76	17736	0.134	ppbv #	74
34) 2-Butanone	4.777	43	483431	3.982	ppbv	100
36) Benzene	6.356	78	38886	0.194	ppbv #	92
39) 1,2-Dichloropropane	6.642	63	650789	8.429	ppbv #	22
41) Tetrahydrofuran	5.552	42	43427	0.654	ppbv	94
50) 4-Methyl-2-Pentanone	8.172	43	29934	0.184	ppbv #	39
51) 2-Hexanone	9.516	43	35245	0.312	ppbv #	49
53) Toluene	9.211	91	346363	1.642	ppbv	100
58) Ethyl Benzene	12.079	91	113450	0.391	ppbv	95
59) m/p-Xylene	12.333	91	437511	1.639	ppbv	96
60) o-Xylene	13.044	91	157033	0.620	ppbv	99
61) Styrene	12.883	104	43988	0.404	ppbv #	27
65) tert-Butylbenzene	16.358	119	365133	1.131	ppbv #	21
74) 1,2,4-Trimethylbenzene	16.095	105	20101	0.068	ppbv #	51
75) 1,3-Dichlorobenzene	16.326	146	5450	0.033	ppbv #	22

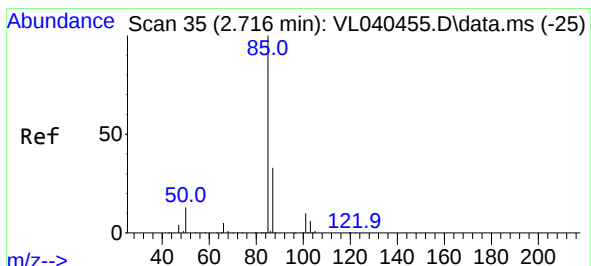
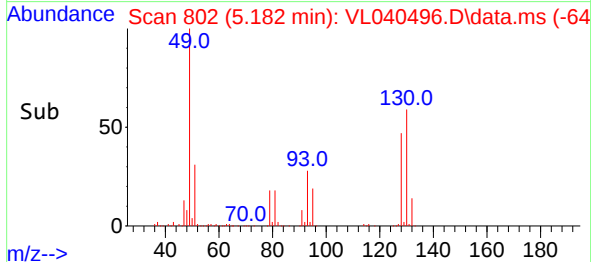
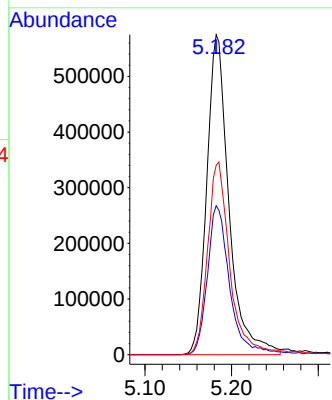
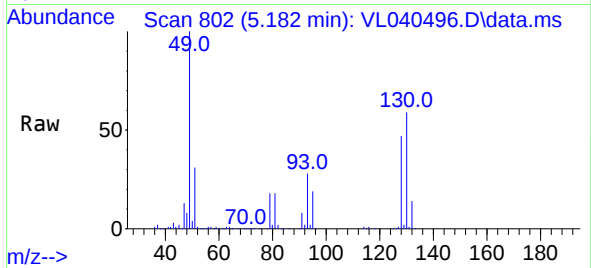
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

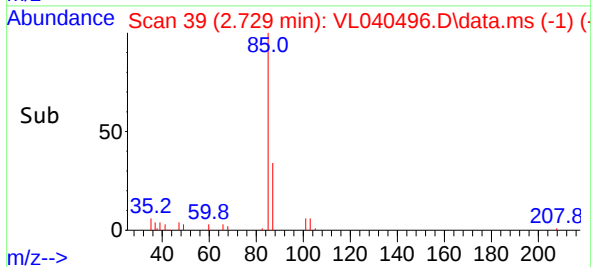
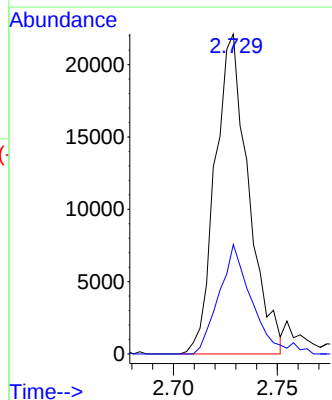
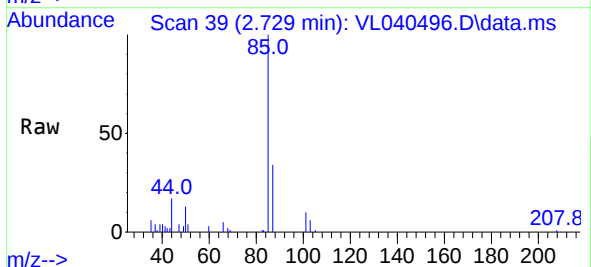
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 49 Resp: 1019605
Ion Ratio Lower Upper
49 100
128 48.2 24.7 74.1
130 61.9 31.4 94.2

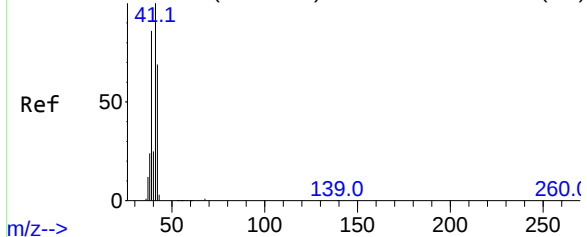


#2
Dichlorodifluoromethane
Concen: 0.111 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.013 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 85 Resp: 24693
Ion Ratio Lower Upper
85 100
87 34.2 26.6 39.8



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 0.250 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.026 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

SV-1

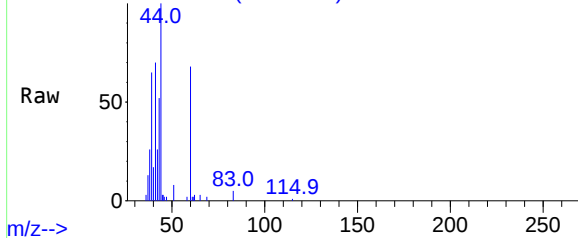
Tgt Ion: 41 Resp: 12863

Ion Ratio Lower Upper

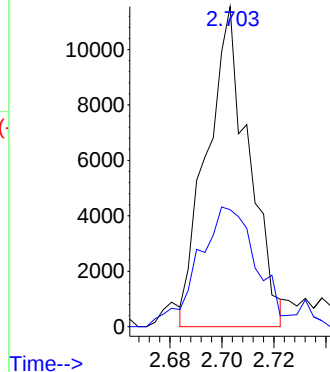
41 100

42 58.4 56.2 84.2

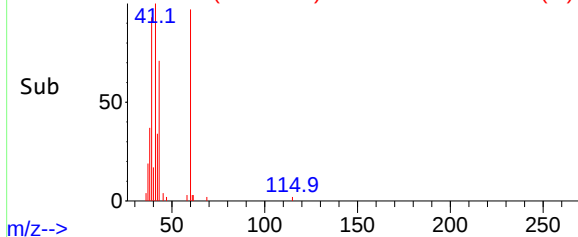
Abundance Scan 31 (2.703 min): VL040496.D\data.ms



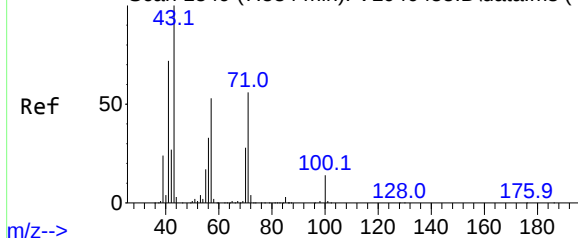
Abundance



Abundance Scan 31 (2.703 min): VL040496.D\data.ms (-1)



Abundance Scan 1549 (7.584 min): VL040455.D\data.ms (-1)



#10

Heptane

Concen: 0.151 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. -0.016 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

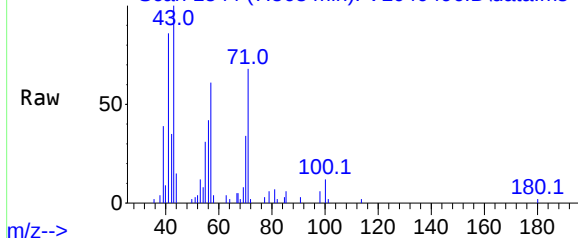
Tgt Ion: 43 Resp: 17658

Ion Ratio Lower Upper

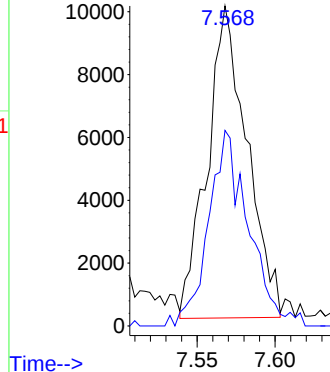
43 100

57 62.8 42.5 63.7

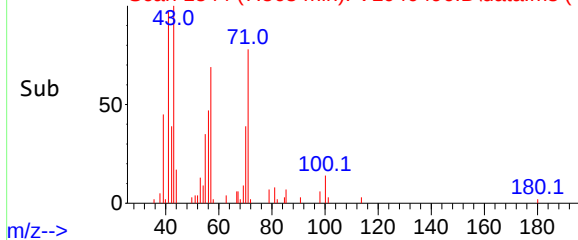
Abundance Scan 1544 (7.568 min): VL040496.D\data.ms

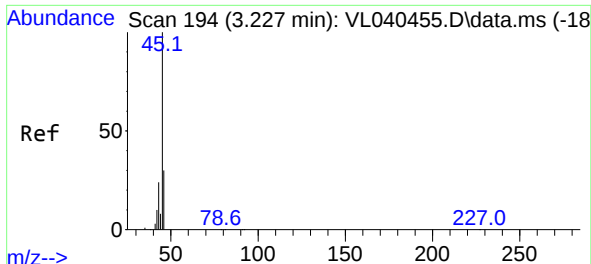


Abundance



Abundance Scan 1544 (7.568 min): VL040496.D\data.ms (-1)





#13

Ethanol

Concen: 115.806 ppbv

RT: 3.234 min Scan# 194

Delta R.T. 0.006 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

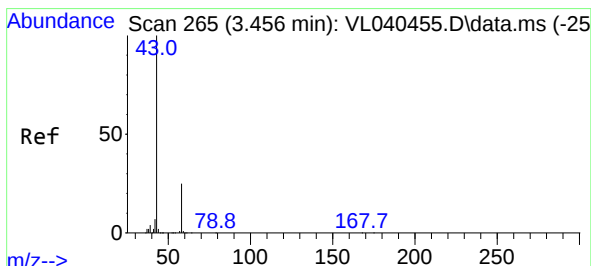
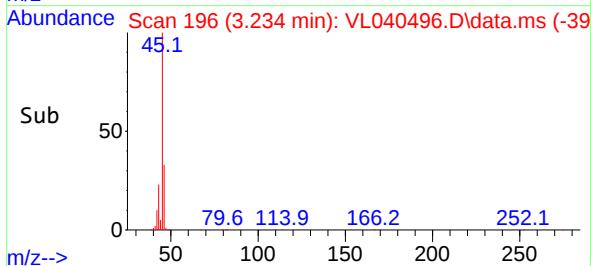
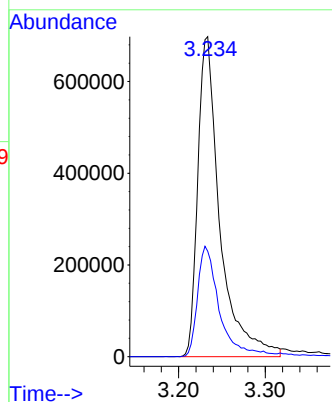
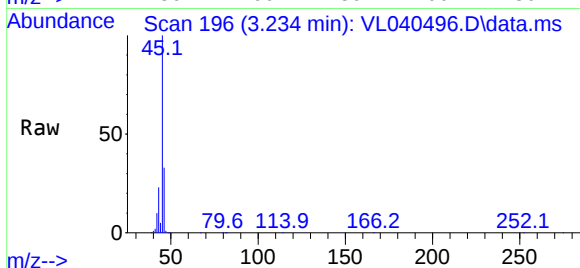
SV-1

Tgt Ion: 45 Resp: 1234973

Ion Ratio Lower Upper

45 100

46 35.3 14.5 58.1



#15

Acetone

Concen: 13.227 ppbv

RT: 3.462 min Scan# 267

Delta R.T. 0.006 min

Lab File: VL040496.D

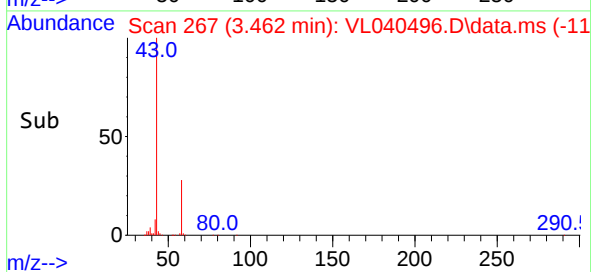
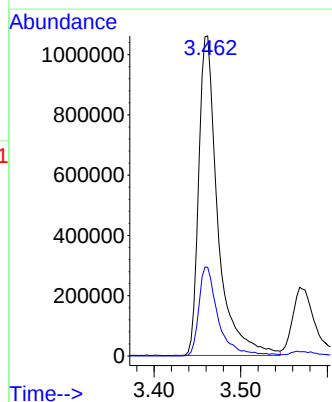
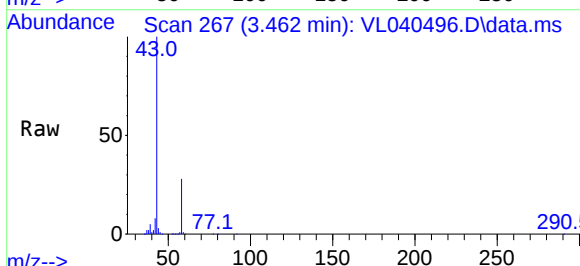
Acq: 22 Jun 2023 22:07

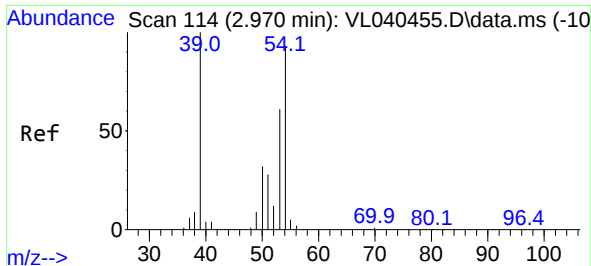
Tgt Ion: 43 Resp: 1626606

Ion Ratio Lower Upper

43 100

58 28.4 21.6 32.4

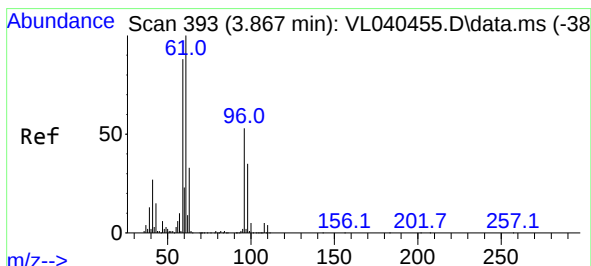
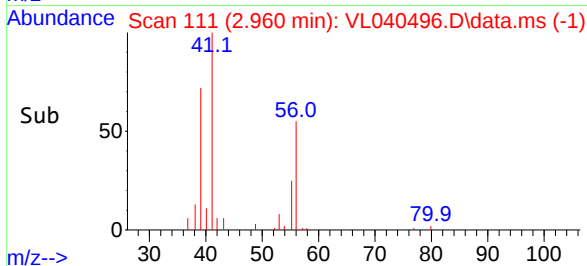
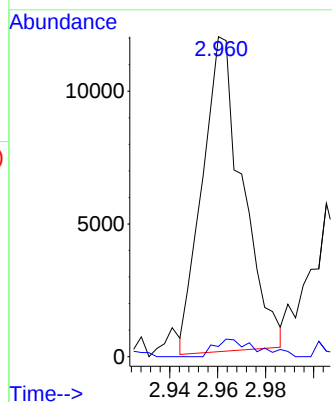
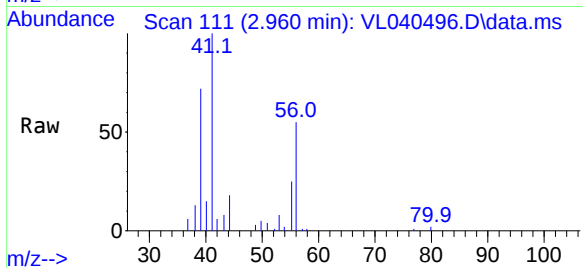




#16
1,3-Butadiene
Concen: 0.231 ppbv
RT: 2.960 min Scan# 114
Delta R.T. -0.010 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

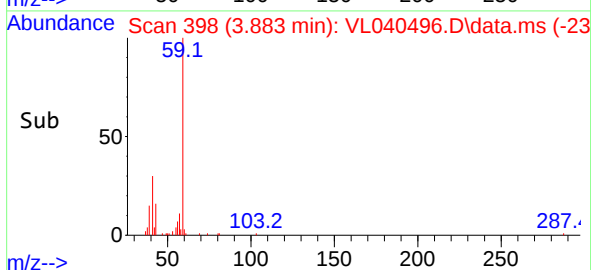
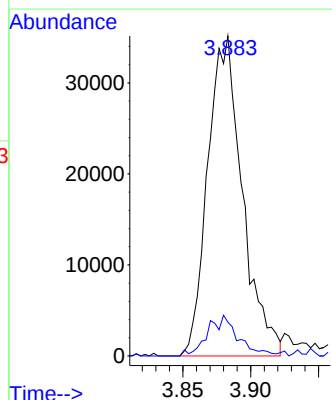
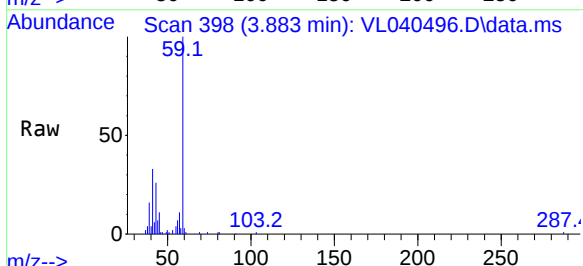
Instrument :
MSVOA_L
ClientSampleId :
SV-1

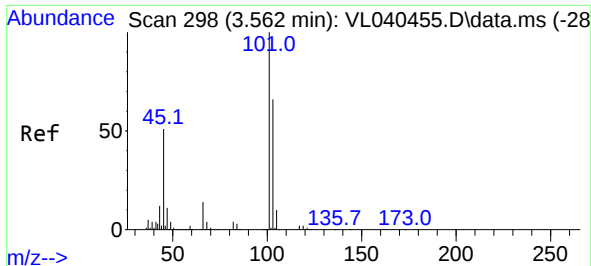
Tgt Ion: 39 Resp: 13848
Ion Ratio Lower Upper
39 100
54 5.8 66.9 100.3#



#17
tert-Butyl alcohol
Concen: 0.618 ppbv
RT: 3.883 min Scan# 398
Delta R.T. 0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 59 Resp: 62497
Ion Ratio Lower Upper
59 100
57 12.3 8.8 13.2

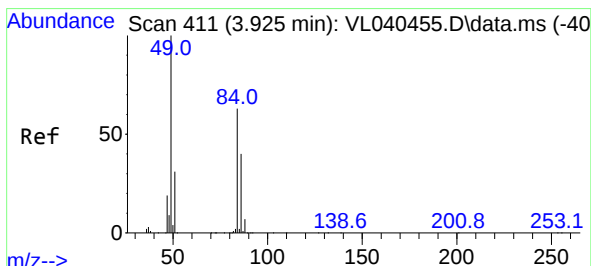
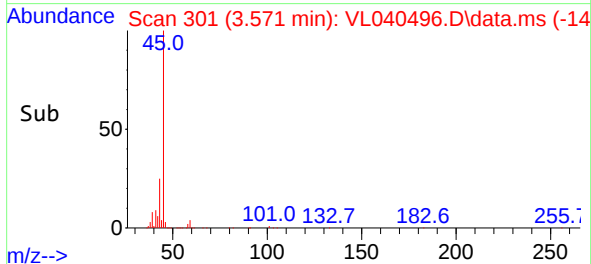
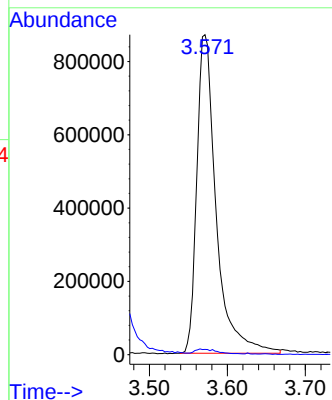
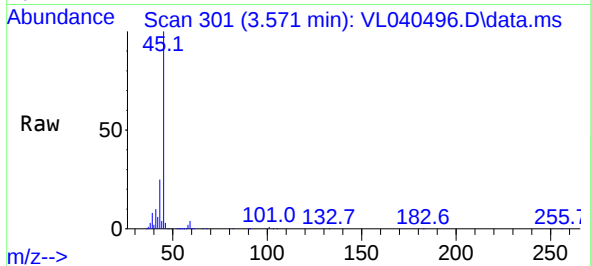




#19
Isopropyl Alcohol
Concen: 25.344 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

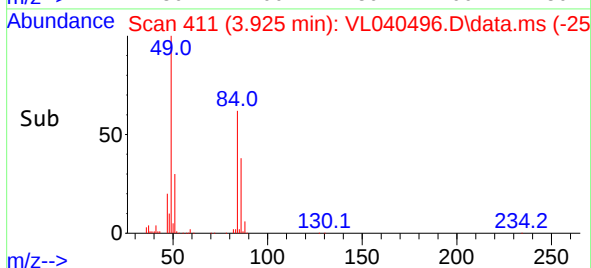
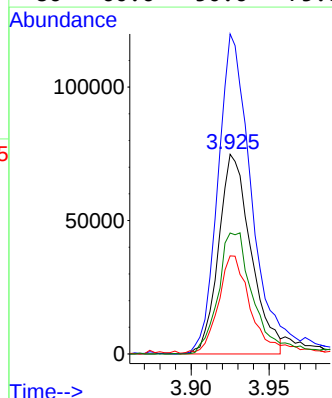
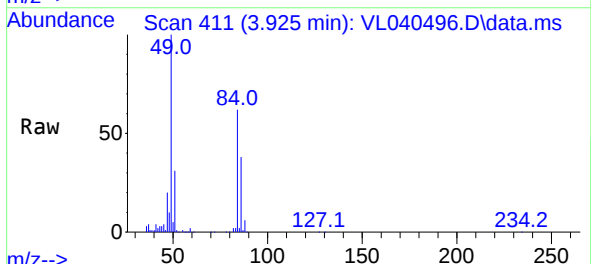
Instrument :
MSVOA_L
ClientSampleId :
SV-1

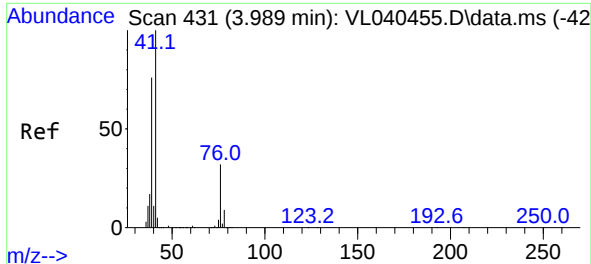
Tgt Ion: 45 Resp: 1502271
Ion Ratio Lower Upper
45 100
58 1.6 2.6 4.0#



#20
Methylene Chloride
Concen: 2.061 ppbv
RT: 3.925 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 84 Resp: 108152
Ion Ratio Lower Upper
84 100
49 160.1 126.2 189.2
51 48.7 38.7 58.1
86 60.6 50.6 75.8





#21

Allyl Chloride

Concen: 0.300 ppbv

RT: 3.880 min Scan# 39

Delta R.T. -0.109 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

SV-1

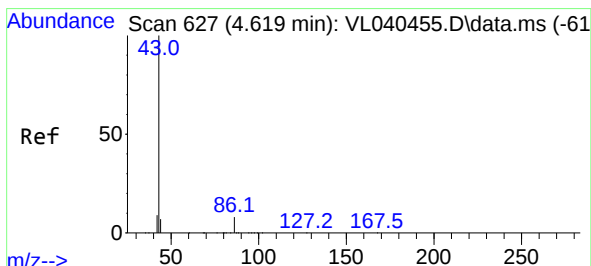
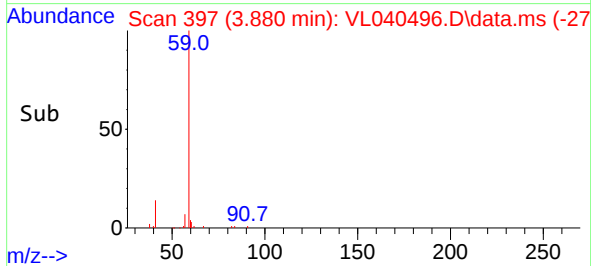
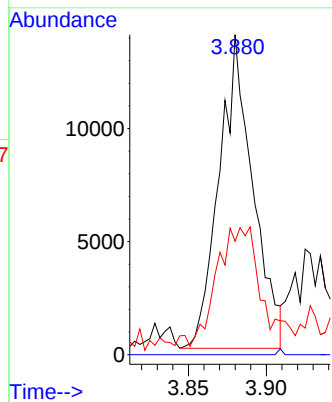
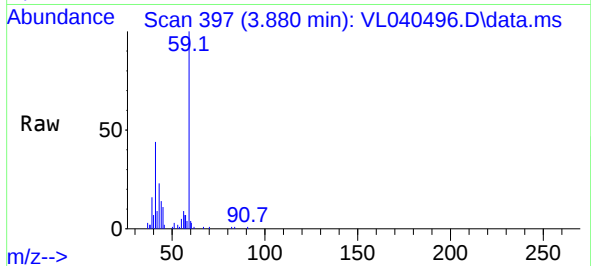
Tgt Ion: 41 Resp: 20863

Ion Ratio Lower Upper

41 100

76 0.0 26.1 39.1#

39 56.3 63.9 95.9#



#23

Vinyl Acetate

Concen: 1.233 ppbv

RT: 4.607 min Scan# 623

Delta R.T. -0.013 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Tgt Ion: 43 Resp: 148056

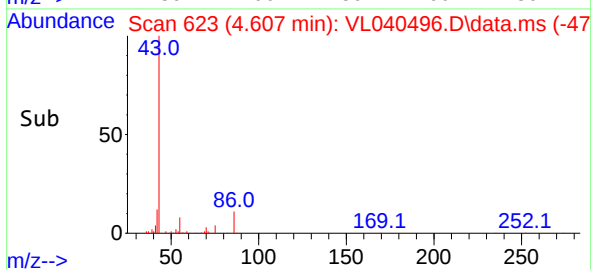
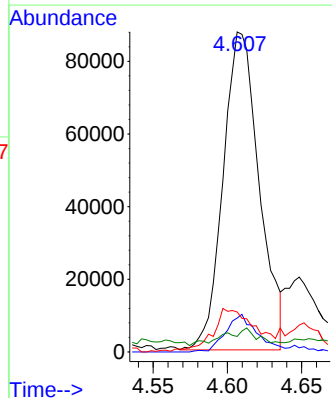
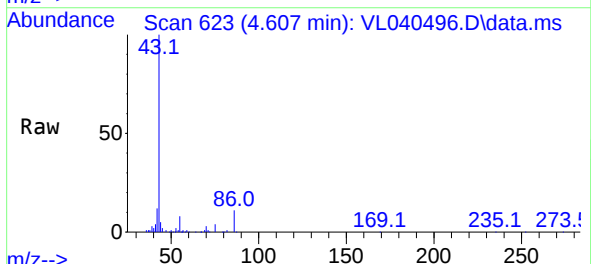
Ion Ratio Lower Upper

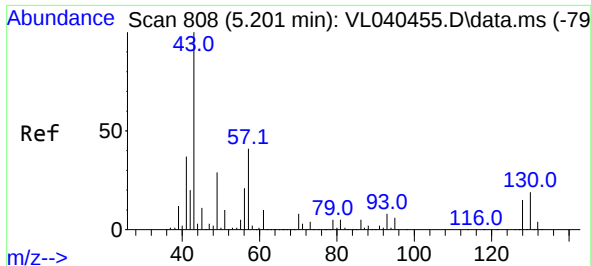
43 100

86 10.7 5.8 8.6#

42 11.6 7.4 11.2#

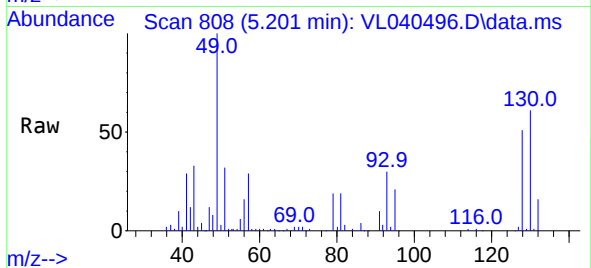
44 2.0 5.3 7.9#





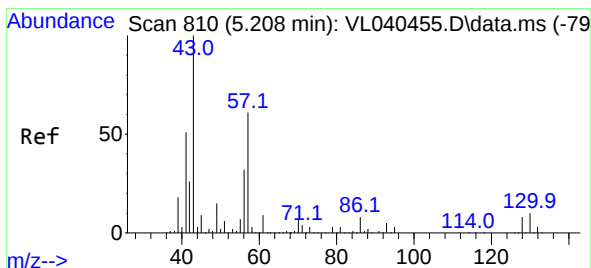
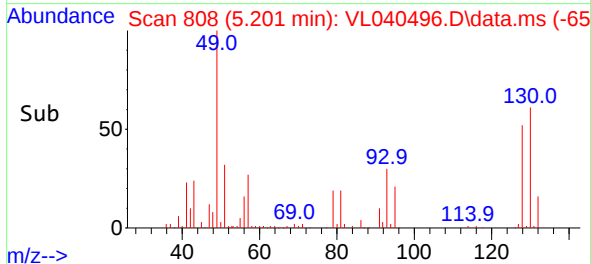
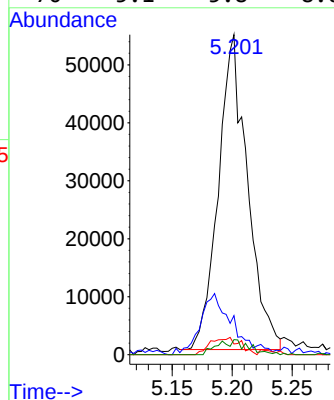
#25
Ethyl Acetate
Concen: 0.412 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.000 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 91793

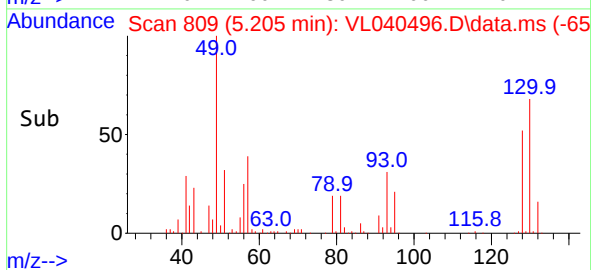
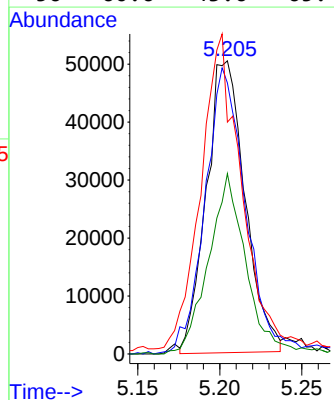
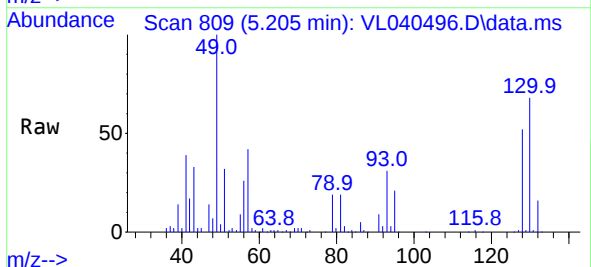
Ion	Ratio	Lower	Upper
43	100		
45	21.8	8.0	12.0#
61	6.4	8.1	12.1#
70	5.1	5.8	8.6#

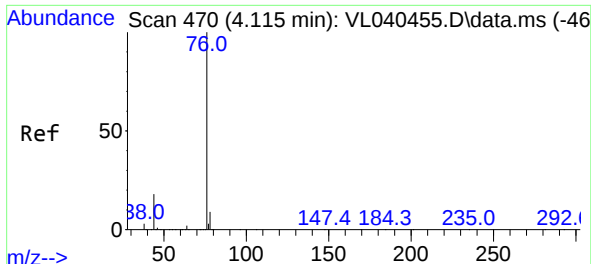


#26
Hexane
Concen: 0.785 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 57 Resp: 82809

Ion	Ratio	Lower	Upper
57	100		
41	105.8	73.0	109.6
43	118.4	177.5	266.3#
56	60.6	43.6	65.4

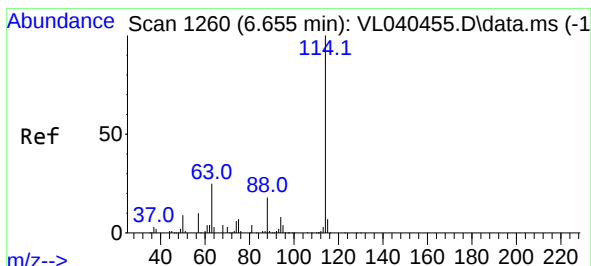
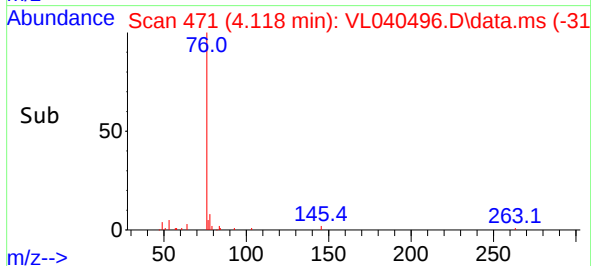
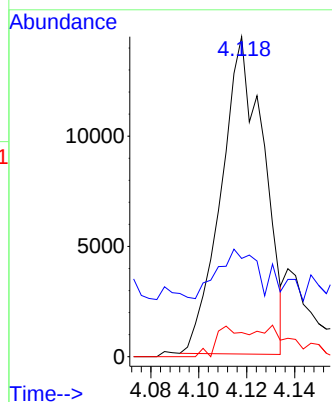
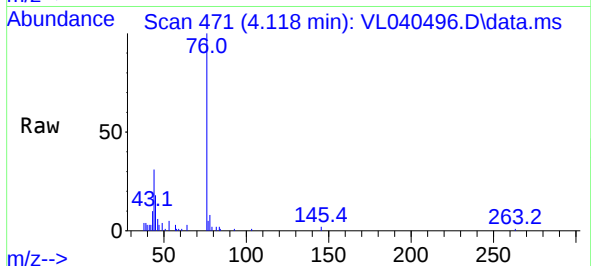




#27
Carbon Disulfide
Concen: 0.134 ppbv
RT: 4.118 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

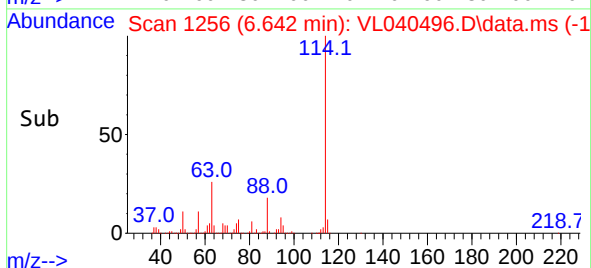
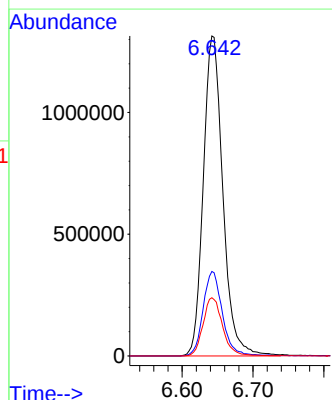
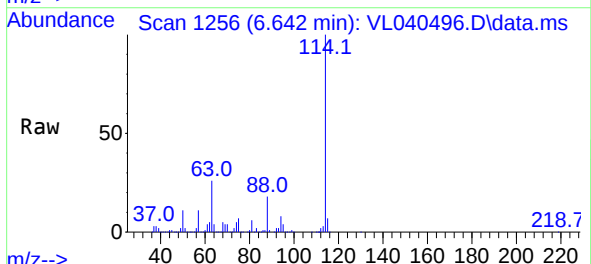
Instrument :
MSVOA_L
ClientSampleId :
SV-1

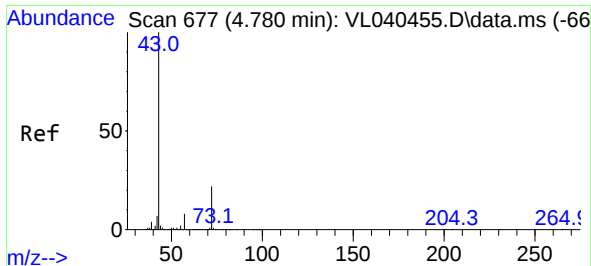
Tgt Ion: 76 Resp: 17736
Ion Ratio Lower Upper
76 100
44 29.9 14.6 22.0#
78 0.0 7.6 11.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.013 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 114 Resp: 2517915
Ion Ratio Lower Upper
114 100
63 26.3 21.0 31.6
88 18.2 14.5 21.7

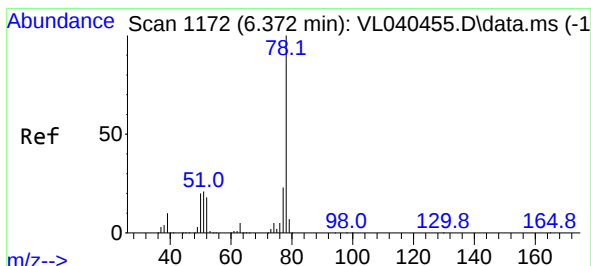
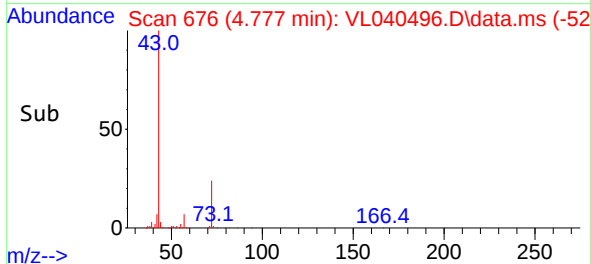
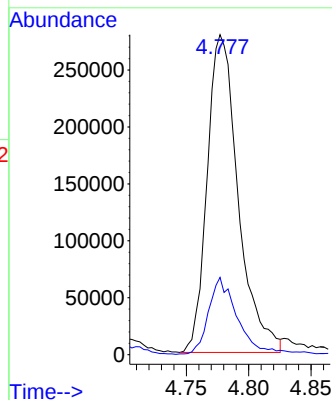
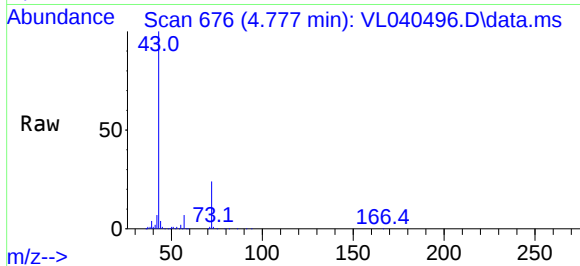




#34
2-Butanone
Concen: 3.982 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

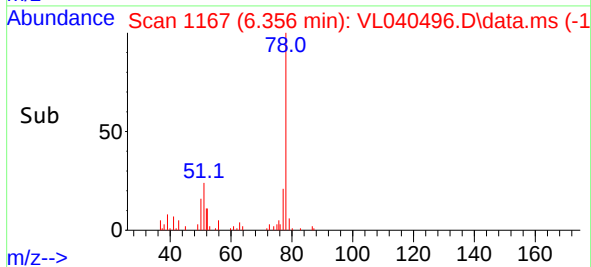
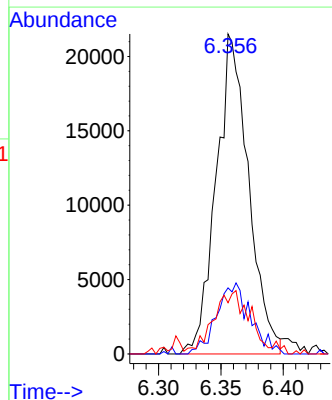
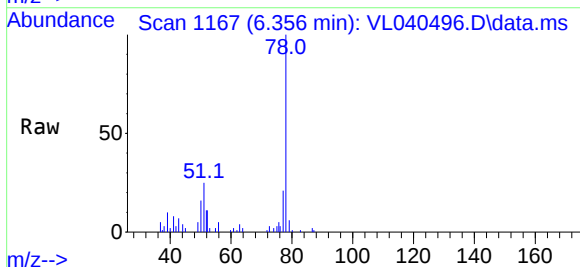
Instrument :
MSVOA_L
ClientSampleId :
SV-1

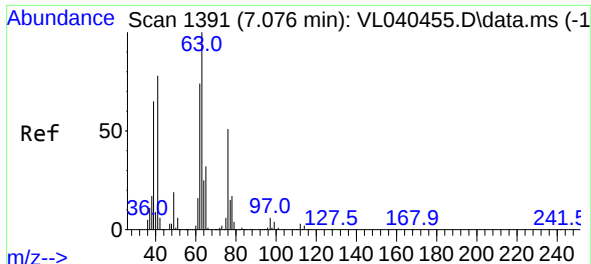
Tgt Ion: 43 Resp: 483431
Ion Ratio Lower Upper
43 100
72 22.8 18.1 27.1



#36
Benzene
Concen: 0.194 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 78 Resp: 38886
Ion Ratio Lower Upper
78 100
77 20.6 18.5 27.7
50 14.5 16.1 24.1#





#39

1,2-Dichloropropane

Concen: 8.429 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

SV-1

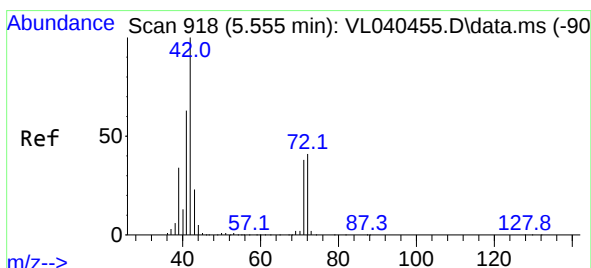
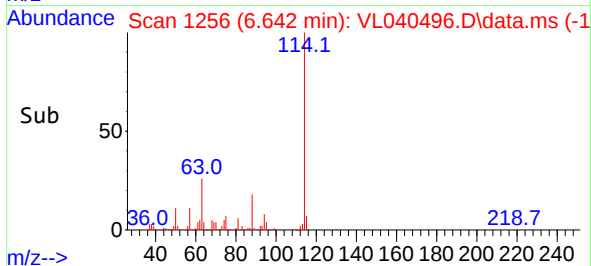
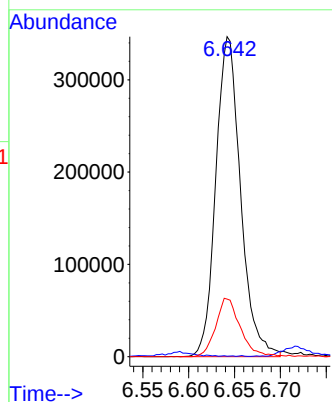
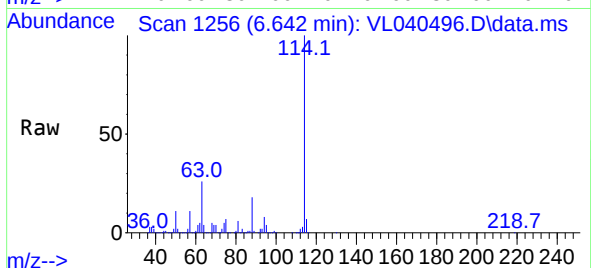
Tgt Ion: 63 Resp: 650789

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.2#

62 18.0 59.0 88.4#



#41

Tetrahydrofuran

Concen: 0.654 ppbv

RT: 5.552 min Scan# 917

Delta R.T. -0.003 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

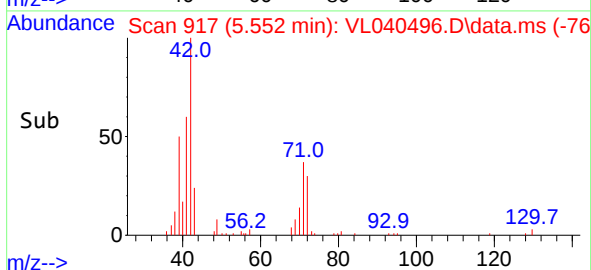
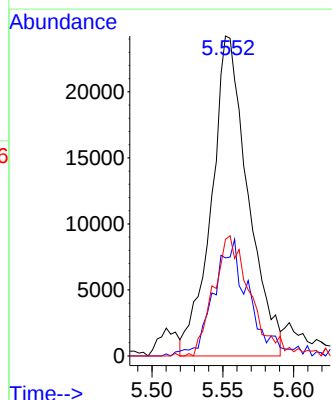
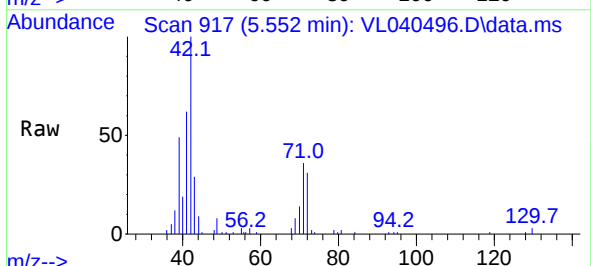
Tgt Ion: 42 Resp: 43427

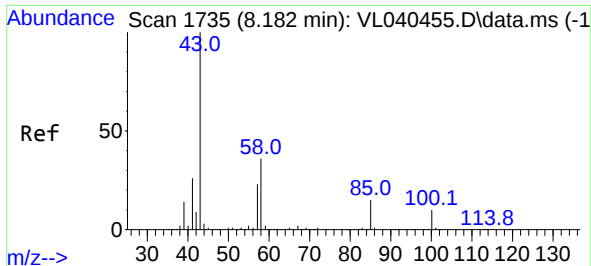
Ion Ratio Lower Upper

42 100

72 36.1 33.8 50.8

71 39.3 32.3 48.5





#50

4-Methyl-2-Pentanone

Concen: 0.184 ppbv

RT: 8.172 min Scan# 1

Delta R.T. -0.010 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

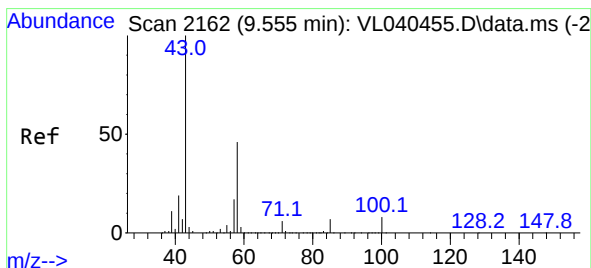
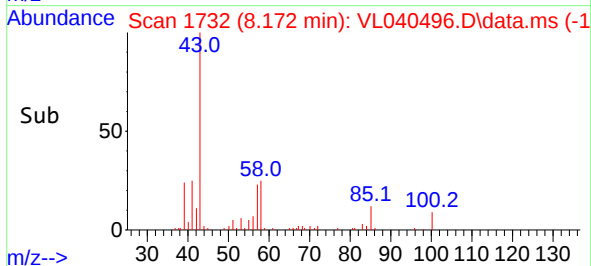
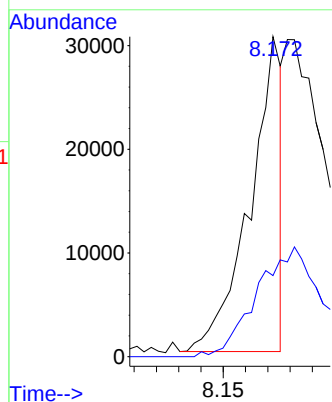
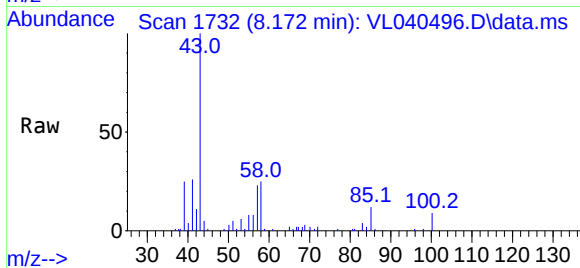
SV-1

Tgt Ion: 43 Resp: 29934

Ion Ratio Lower Upper

43 100

58 0.0 28.2 42.4#



#51

2-Hexanone

Concen: 0.312 ppbv

RT: 9.516 min Scan# 2150

Delta R.T. -0.039 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

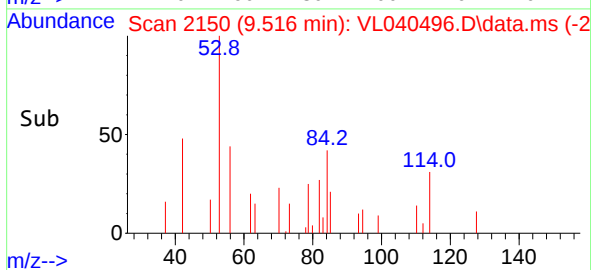
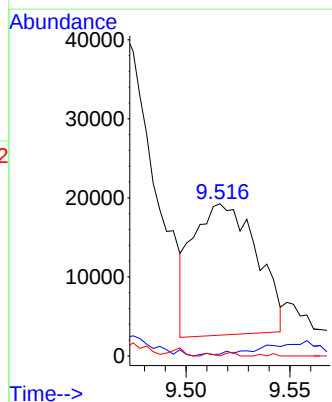
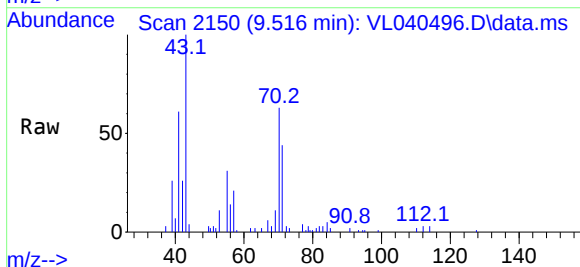
Tgt Ion: 43 Resp: 35245

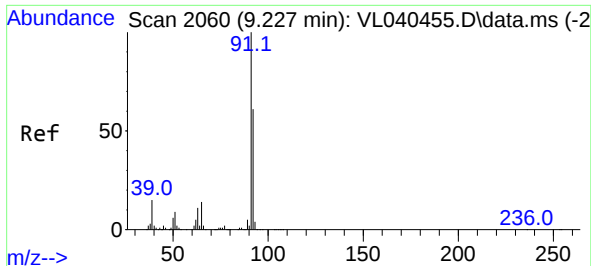
Ion Ratio Lower Upper

43 100

58 11.8 37.1 55.7#

98 0.0 0.5 0.7#

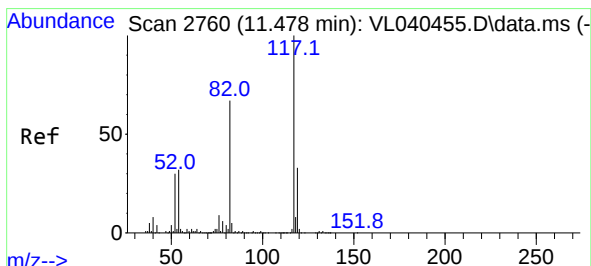
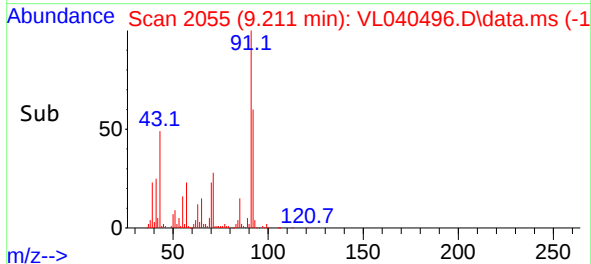
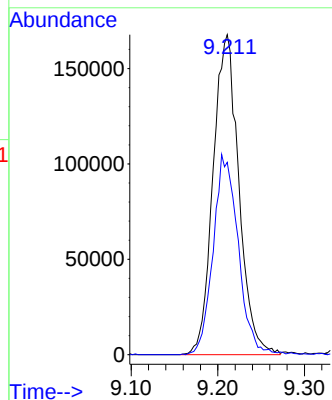
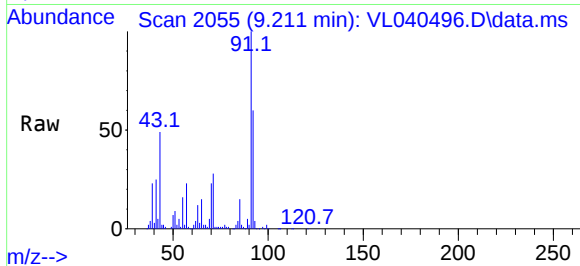




#53
Toluene
Concen: 1.642 ppbv
RT: 9.211 min Scan# 2060
Delta R.T. -0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

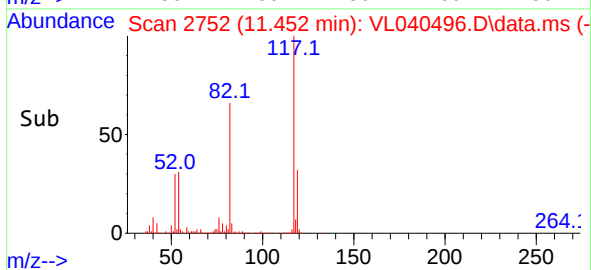
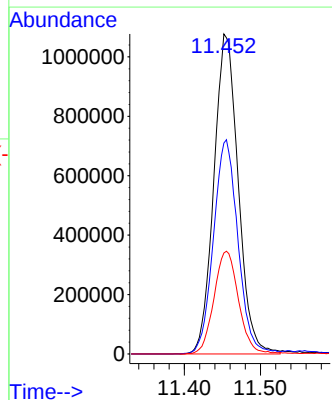
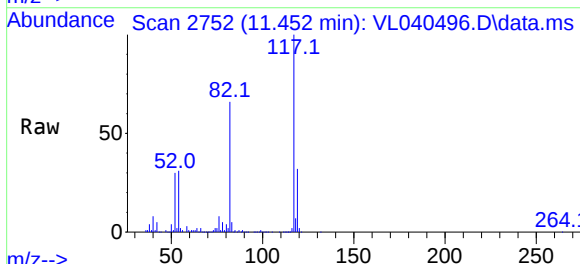
Instrument :
MSVOA_L
ClientSampleId :
SV-1

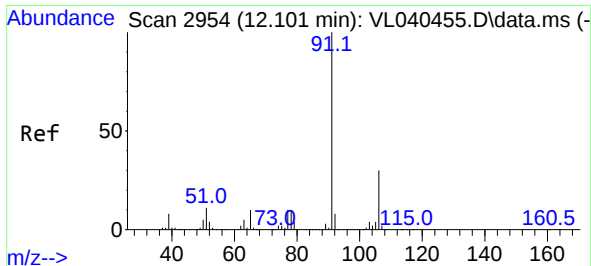
Tgt Ion: 91 Resp: 346363
Ion Ratio Lower Upper
91 100
92 61.2 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 117 Resp: 2397210
Ion Ratio Lower Upper
117 100
82 67.3 53.0 79.4
119 32.7 24.4 36.6

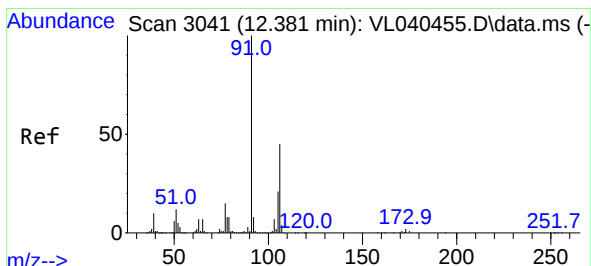
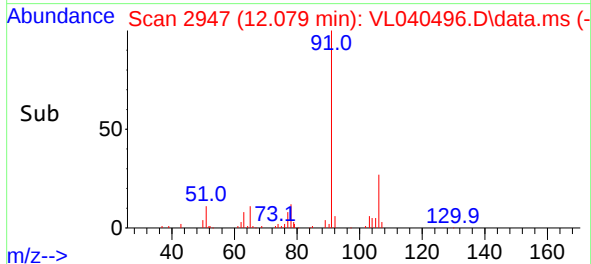
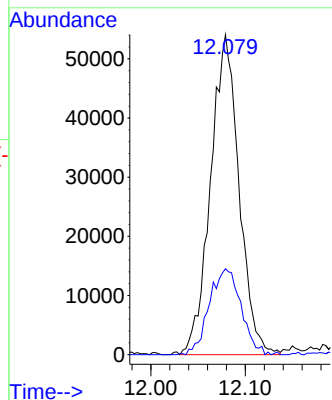
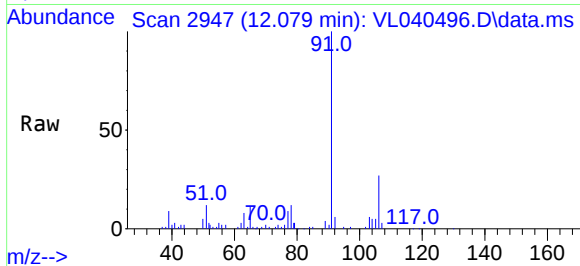




#58
Ethyl Benzene
Concen: 0.391 ppbv
RT: 12.079 min Scan# 2954
Delta R.T. -0.023 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

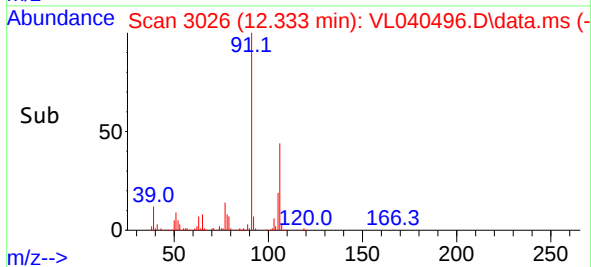
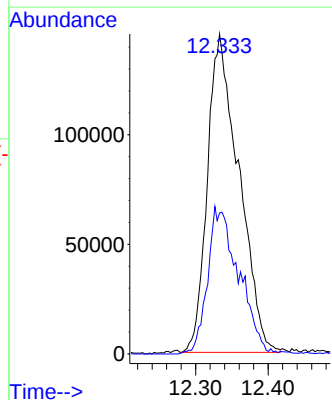
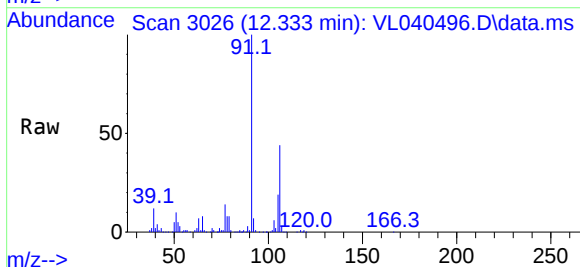
Instrument :
MSVOA_L
ClientSampleId :
SV-1

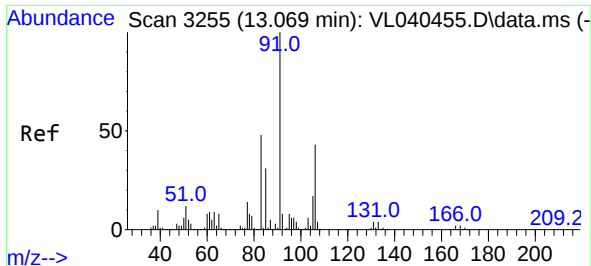
Tgt Ion: 91 Resp: 113450
Ion Ratio Lower Upper
91 100
106 26.8 23.7 35.5



#59
m/p-Xylene
Concen: 1.639 ppbv
RT: 12.333 min Scan# 3026
Delta R.T. -0.048 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 91 Resp: 437511
Ion Ratio Lower Upper
91 100
106 45.9 34.6 52.0

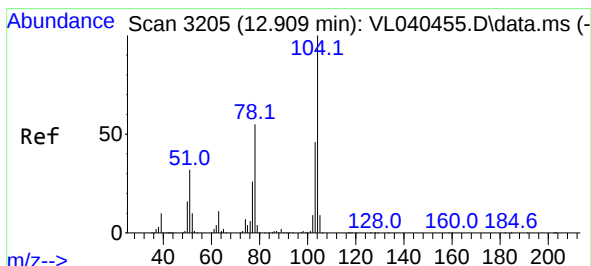
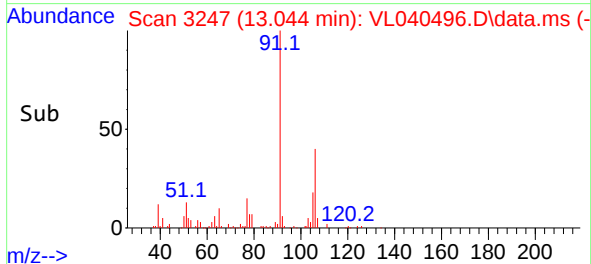
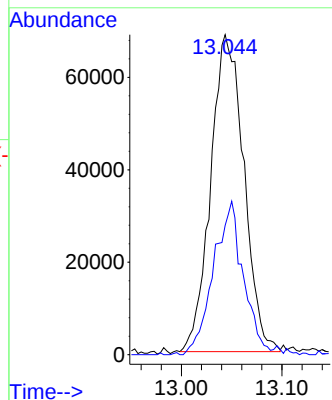
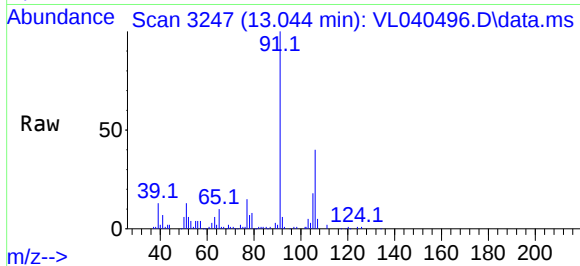




#60
o-Xylene
Concen: 0.620 ppbv
RT: 13.044 min Scan# 3197
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

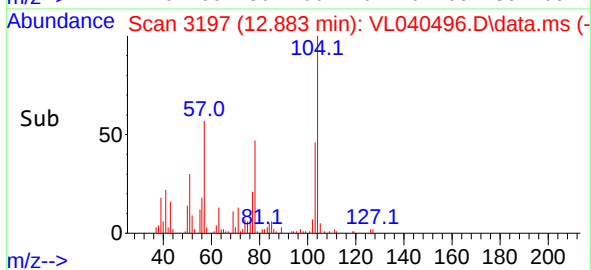
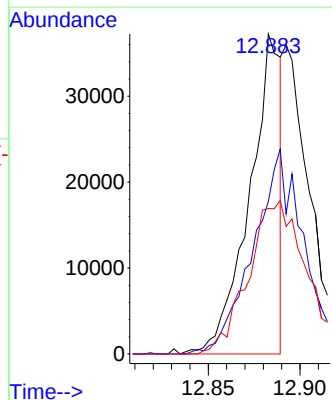
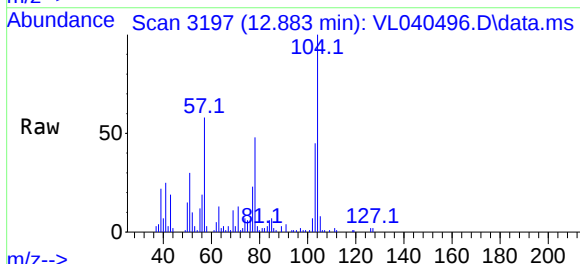
Instrument :
MSVOA_L
ClientSampleId :
SV-1

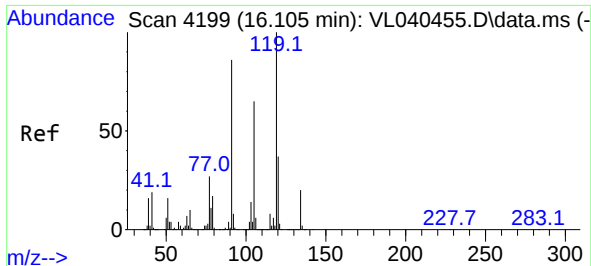
Tgt Ion: 91 Resp: 157033
Ion Ratio Lower Upper
91 100
106 44.5 22.1 66.1



#61
Styrene
Concen: 0.404 ppbv
RT: 12.883 min Scan# 3197
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 104 Resp: 43988
Ion Ratio Lower Upper
104 100
78 0.0 43.1 64.7#
103 0.0 37.1 55.7#

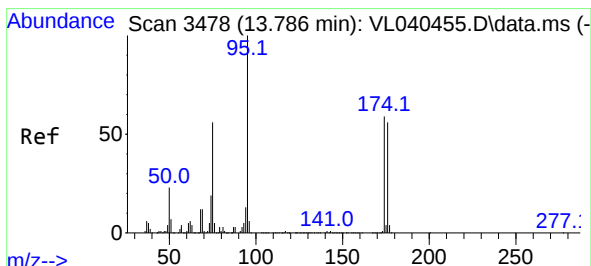
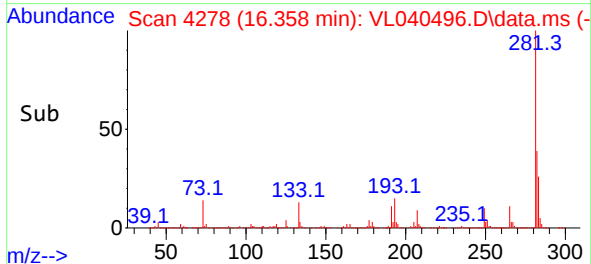
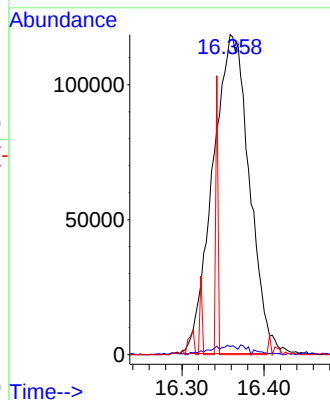
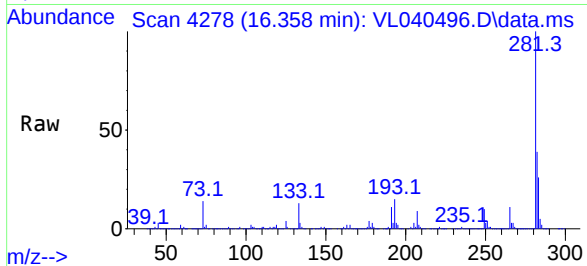




#65
tert-Butylbenzene
Concen: 1.131 ppbv
RT: 16.358 min Scan# 4199
Delta R.T. 0.254 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

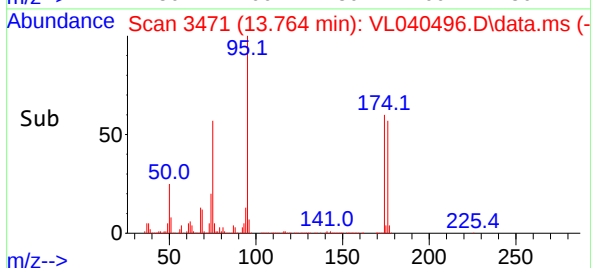
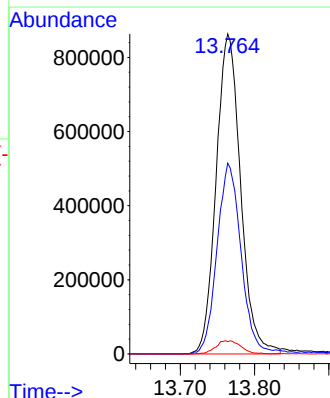
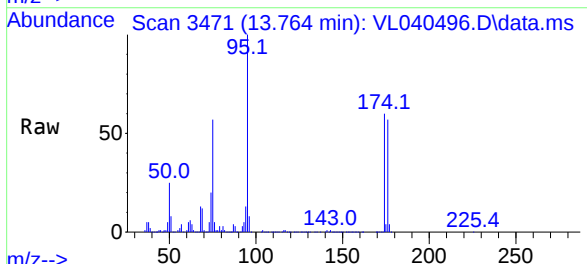
Instrument :
MSVOA_L
ClientSampleId :
SV-1

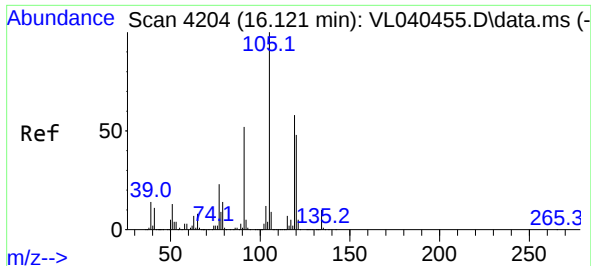
Tgt Ion:119 Resp: 365133
Ion Ratio Lower Upper
119 100
91 3.3 70.5 105.7#
134 8.3 15.6 23.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.993 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.023 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 95 Resp: 1977178
Ion Ratio Lower Upper
95 100
174 58.9 47.7 71.5
175 4.4 3.5 5.3



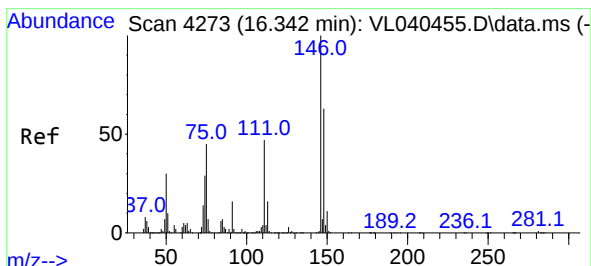
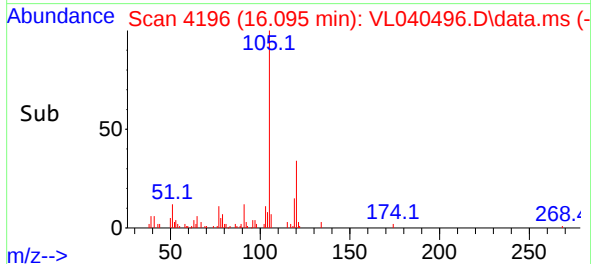
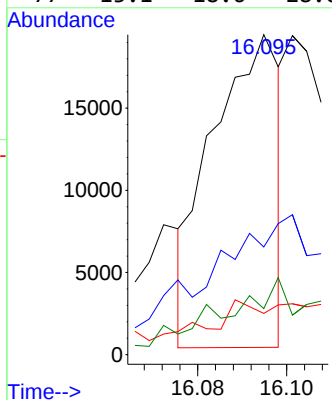
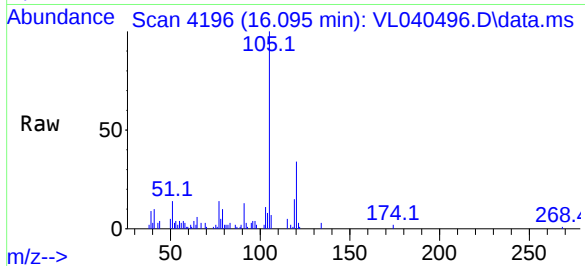


#74
1,2,4-Trimethylbenzene
Concen: 0.068 ppbv
RT: 16.095 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion:105 Resp: 20101

Ion	Ratio	Lower	Upper
105	100		
120	13.8	38.4	57.6#
91	9.4	41.3	61.9#
77	13.1	18.6	28.0#



#75
1,3-Dichlorobenzene
Concen: 0.033 ppbv
RT: 16.326 min Scan# 4268
Delta R.T. -0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion:146 Resp: 5450

Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.6	73.8#
148	0.0	32.4	97.2#

