

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039804.D
 Acq On : 26 Oct 2022 2:02
 Operator : SY/AP
 Sample : N5227-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 K

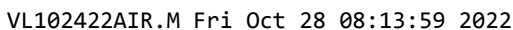
Quant Time: Oct 28 08:13:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Oct 24 20:00:55 2022
 Response via : Initial Calibration

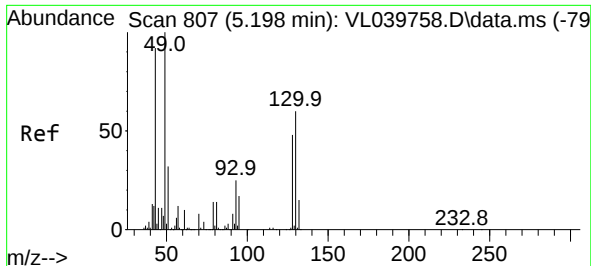
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	832037	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2166335	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	1904361	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1356054	10.010	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.694	51	373640	3.738	ppbv #	64
4) Chloromethane	2.835	50	64450	1.030	ppbv	98
9) Propene	2.716	41	82068	1.911	ppbv	95
11) Trichlorofluoromethane	3.584	101	30753	0.253	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.086	101	3488	0.037	ppbv #	14
13) Ethanol	3.276	45	8479	2.749	ppbv #	25
15) Acetone	3.497	43	331671	3.337	ppbv	98
16) 1,3-Butadiene	3.002	39	18302	0.373	ppbv	95
20) Methylene Chloride	3.954	84	91420	2.418	ppbv	97
23) Vinyl Acetate	4.639	43	3023	0.079	ppbv #	1
25) Ethyl Acetate	5.224	43	92721	0.477	ppbv #	75
26) Hexane	5.227	57	125106	1.549	ppbv #	36
27) Carbon Disulfide	4.144	76	15371	0.160	ppbv #	65
30) Cyclohexane	6.619	84	3320	0.050	ppbv #	1
34) 2-Butanone	4.812	43	17077	0.168	ppbv #	55
35) Carbon Tetrachloride	6.510	117	6938	0.056	ppbv #	76
36) Benzene	6.385	78	35697	0.214	ppbv	94
39) 1,2-Dichloropropane	6.664	63	523249	8.141	ppbv #	26
53) Toluene	9.234	91	243045	1.390	ppbv	98
58) Ethyl Benzene	12.092	91	10196	0.047	ppbv	91
60) o-Xylene	13.069	91	6954	0.038	ppbv #	30
64) n-propylbenzene	15.040	120	2684	0.038	ppbv #	1
65) tert-Butylbenzene	16.027	119	226577	0.927	ppbv #	1
66) Benzyl Chloride	16.587	91	127341	7.344	ppbv #	67
69) p-Isopropyltoluene	16.998	119	234080	0.840	ppbv	98
71) 2-Chlorotoluene	14.690	91	9923489	50.936	ppbv #	42
72) 4-Ethyltoluene	15.121	105	766559	3.624	ppbv #	1
73) 1,3,5-Trimethylbenzene	15.121	105	766559	4.050	ppbv #	28
74) 1,2,4-Trimethylbenzene	16.108	105	29450	0.137	ppbv #	65

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

Quant Time: Oct 28 08:13:42 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Oct 24 20:00:55 2022
Response via : Initial Calibration

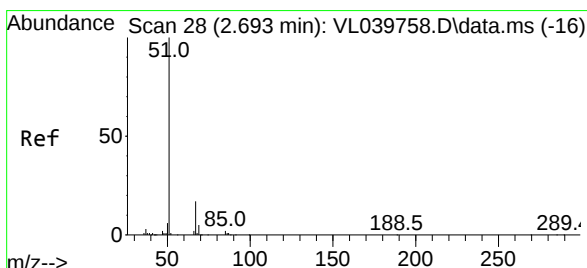
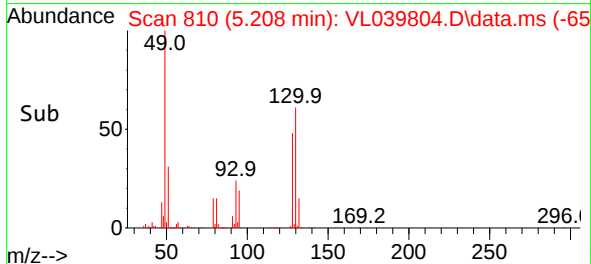
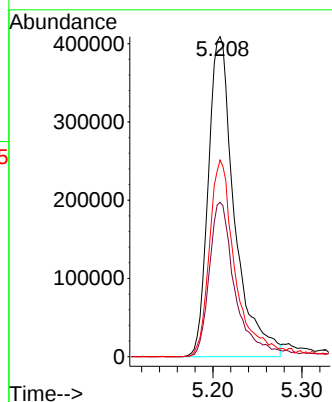
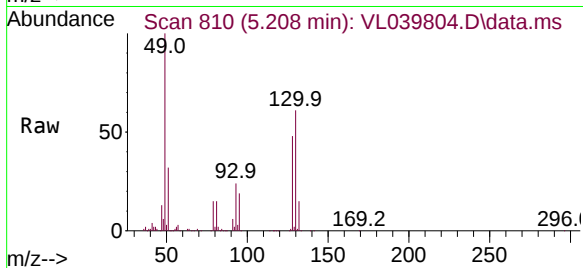




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

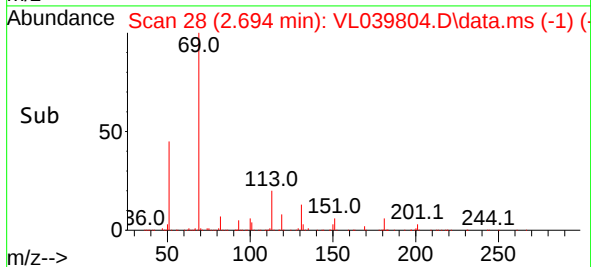
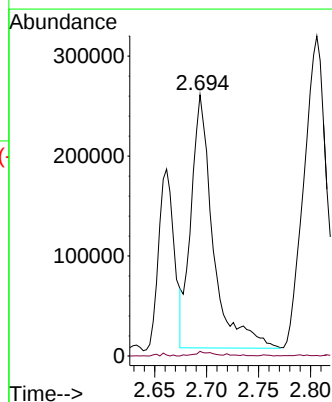
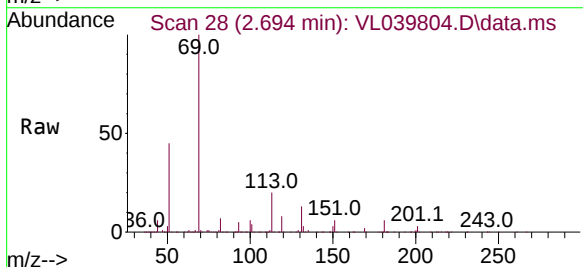
Instrument :
MSVOA_L
ClientSampleId :
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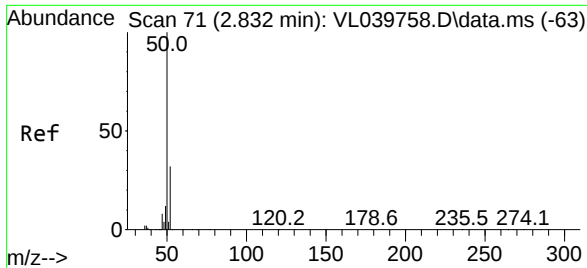
Tgt Ion: 49 Resp: 832037
Ion Ratio Lower Upper
49 100
128 50.3 24.6 74.0
130 63.3 31.8 95.3



#3
Chlorodifluoromethane
Concen: 3.738 ppbv
RT: 2.694 min Scan# 28
Delta R.T. 0.000 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 51 Resp: 373640
Ion Ratio Lower Upper
51 100
67 1.8 14.2 21.2#

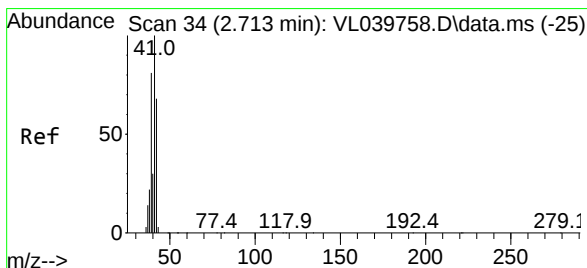
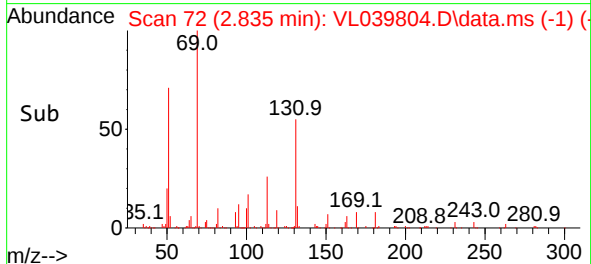
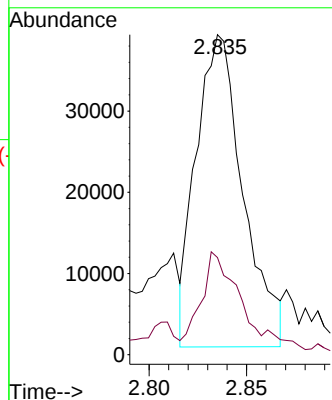
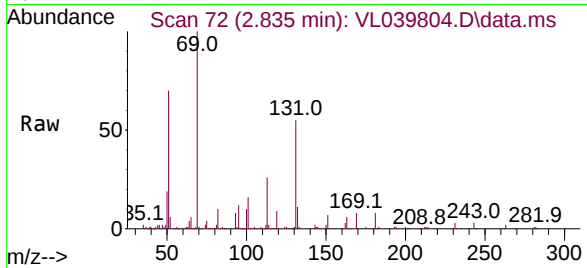




#4
Chloromethane
Concen: 1.030 ppbv
RT: 2.835 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

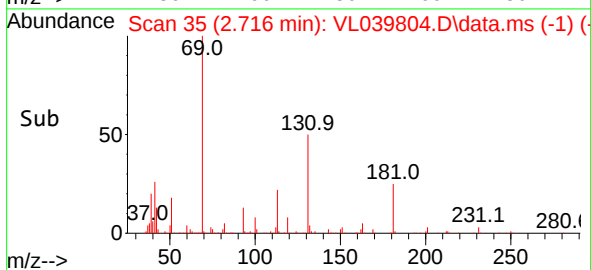
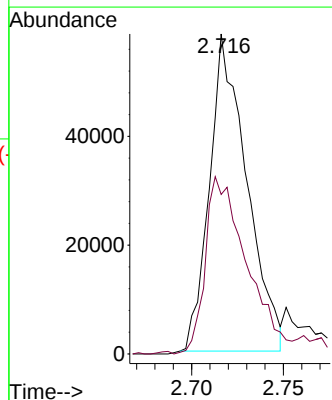
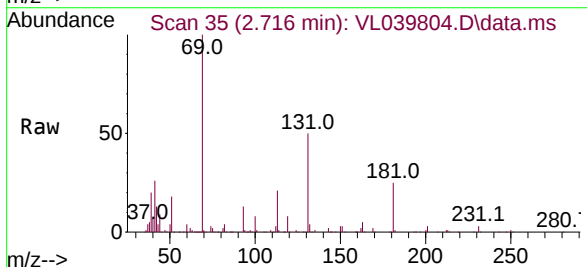
Instrument : MSVOA_L
ClientSampleId : K

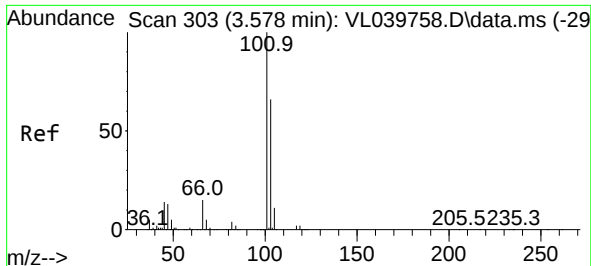
Tgt Ion: 50 Resp: 64450
Ion Ratio Lower Upper
50 100
52 31.2 25.9 38.9



#9
Propene
Concen: 1.911 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 41 Resp: 82068
Ion Ratio Lower Upper
41 100
42 68.3 58.0 87.0

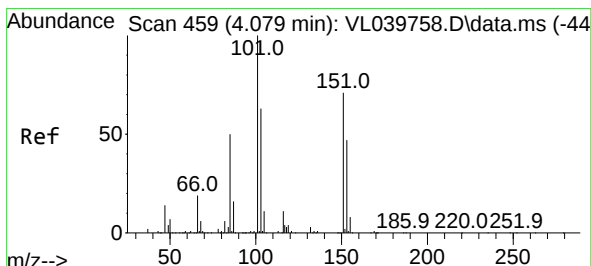
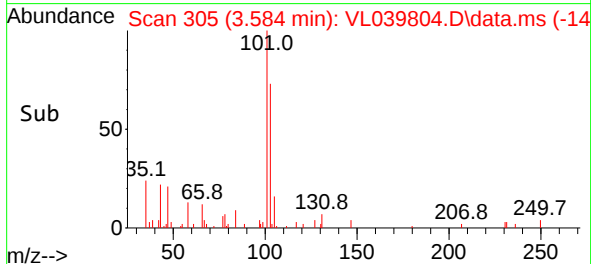
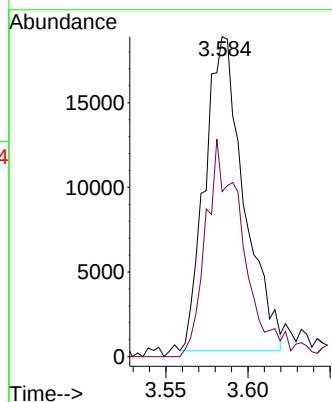
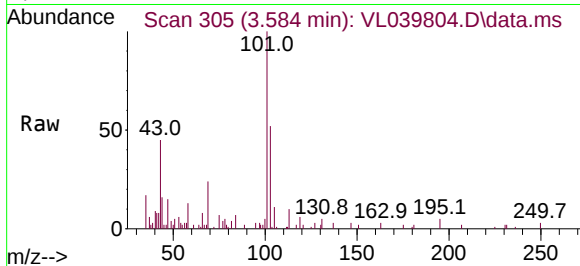




#11
 Trichlorofluoromethane
 Concen: 0.253 ppbv
 RT: 3.584 min Scan# 303
 Delta R.T. 0.007 min
 Lab File: VL039804.D
 Acq: 26 Oct 2022 2:02

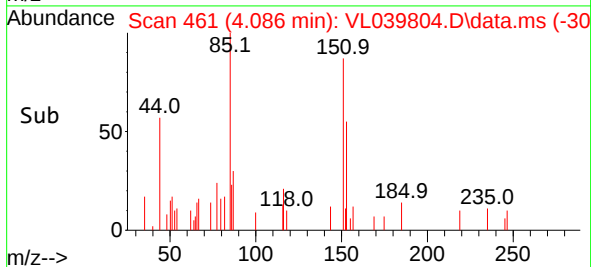
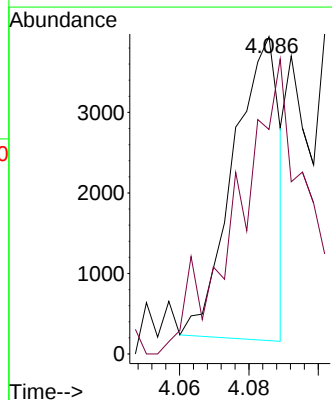
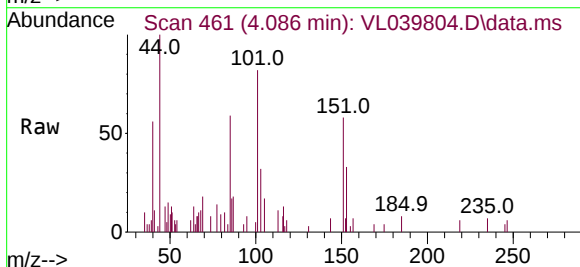
Instrument :
 MSVOA_L
 ClientSampleId :
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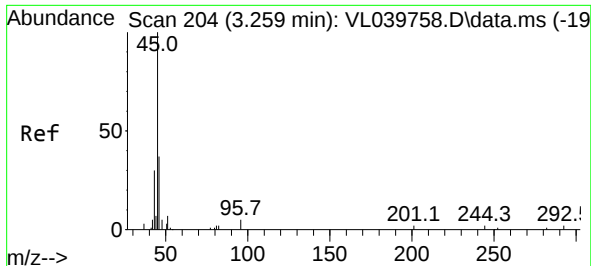
Tgt Ion:101 Resp: 30753
 Ion Ratio Lower Upper
 101 100
 103 53.8 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.037 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.007 min
 Lab File: VL039804.D
 Acq: 26 Oct 2022 2:02

Tgt Ion:101 Resp: 3488
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.6 84.8#

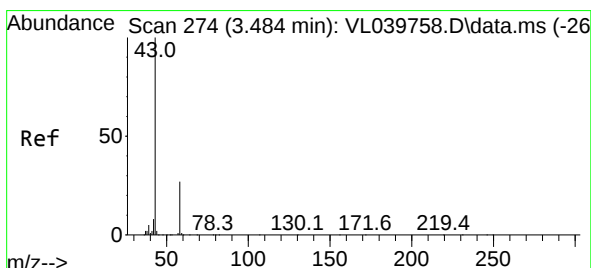
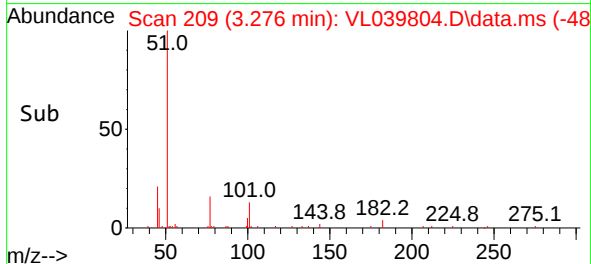
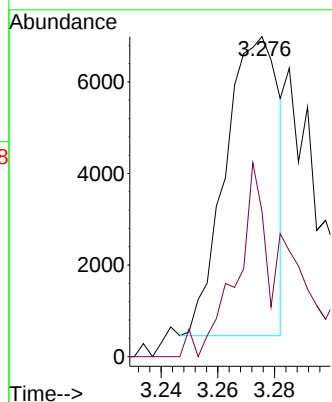
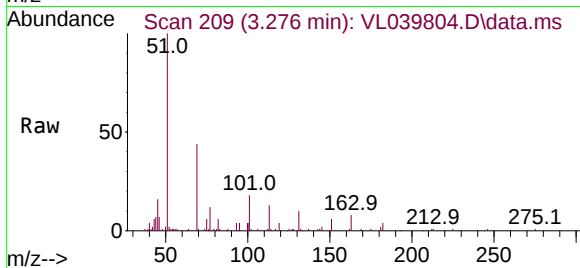




#13
Ethanol
Concen: 2.749 ppbv
RT: 3.276 min Scan# 204
Delta R.T. 0.016 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

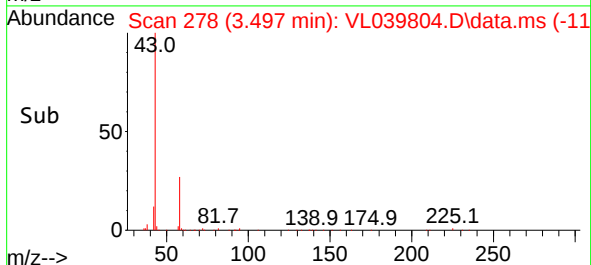
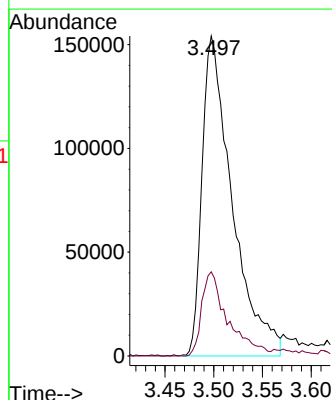
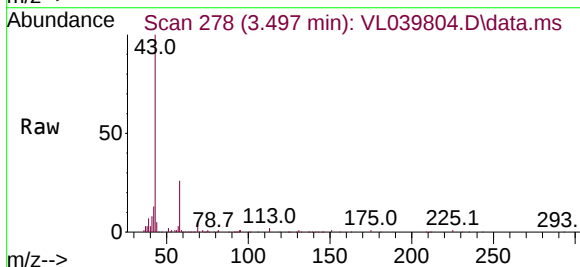
Instrument :
MSVOA_L
ClientSampleId :
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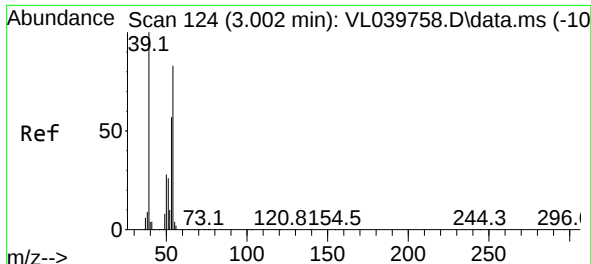
Tgt Ion: 45 Resp: 8479
Ion Ratio Lower Upper
45 100
46 83.9 15.3 61.3#



#15
Acetone
Concen: 3.337 ppbv
RT: 3.497 min Scan# 278
Delta R.T. 0.013 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 43 Resp: 331671
Ion Ratio Lower Upper
43 100
58 24.8 20.7 31.1





#16

1,3-Butadiene

Concen: 0.373 ppbv

RT: 3.002 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL039804.D

Acq: 26 Oct 2022 2:02

Instrument :

MSVOA_L

ClientSampleId :

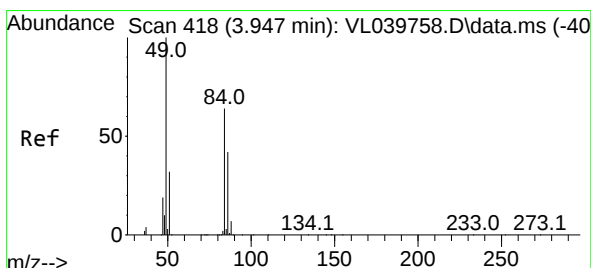
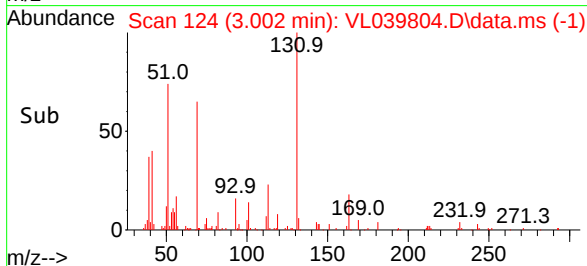
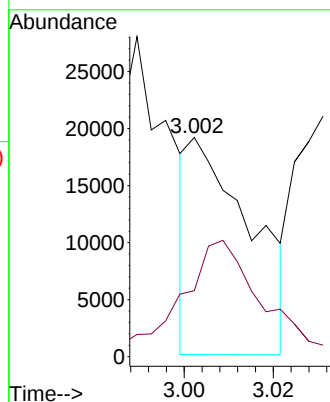
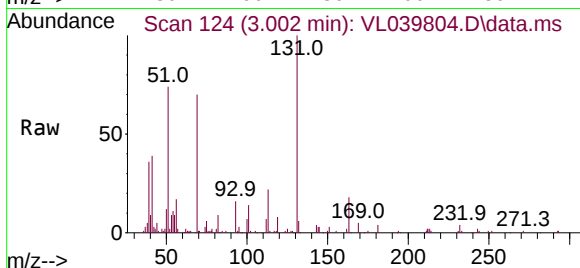
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Tgt Ion: 39 Resp: 18302

Ion Ratio Lower Upper

39 100

54 85.2 64.6 97.0



#20

Methylene Chloride

Concen: 2.418 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.007 min

Lab File: VL039804.D

Acq: 26 Oct 2022 2:02

Tgt Ion: 84 Resp: 91420

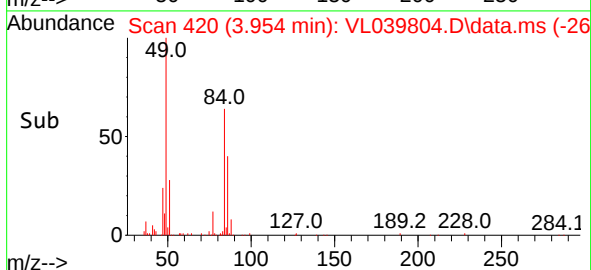
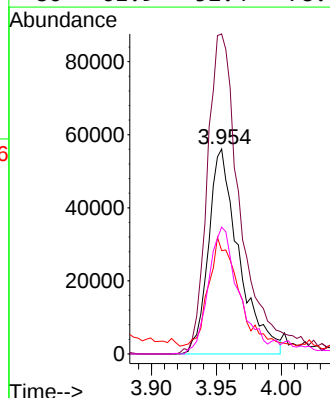
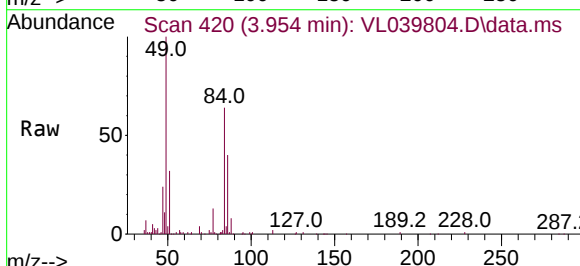
Ion Ratio Lower Upper

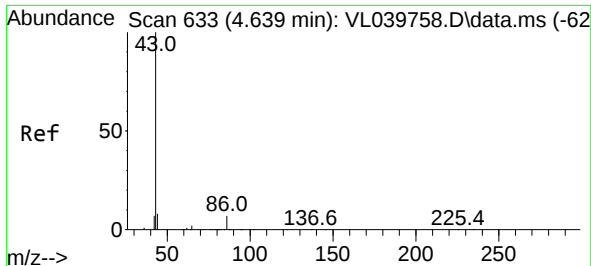
84 100

49 155.4 126.0 189.0

51 46.6 40.9 61.3

86 61.9 52.4 78.6

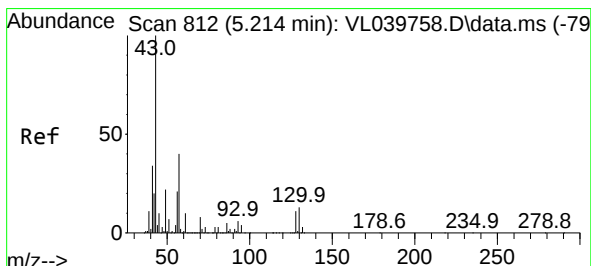
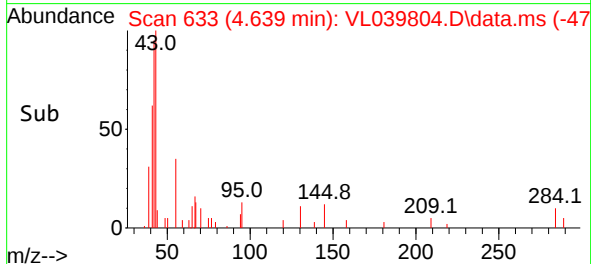
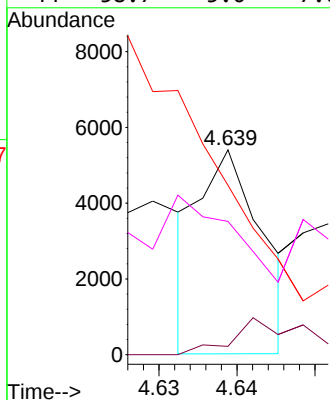
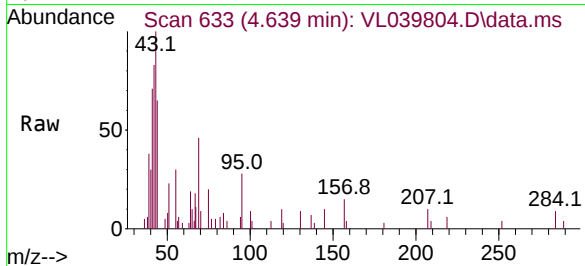




#23
 Vinyl Acetate
 Concen: 0.079 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL039804.D
 Acq: 26 Oct 2022 2:02

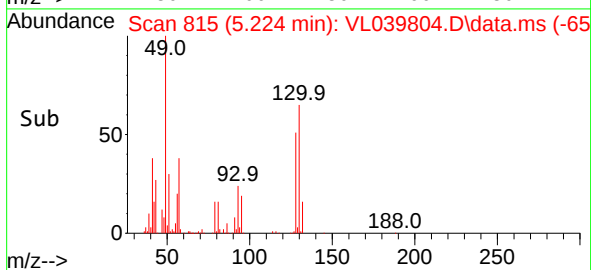
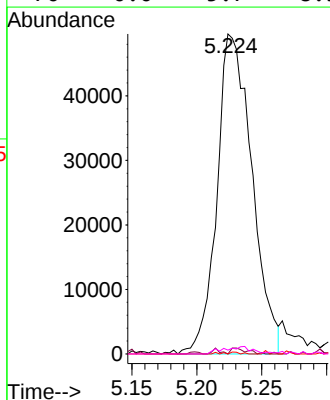
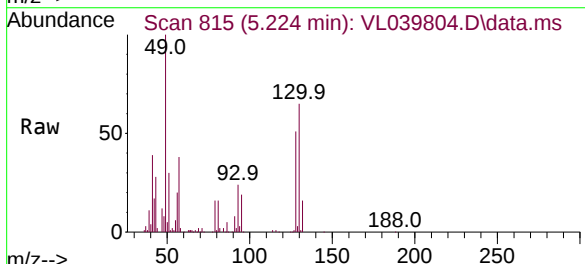
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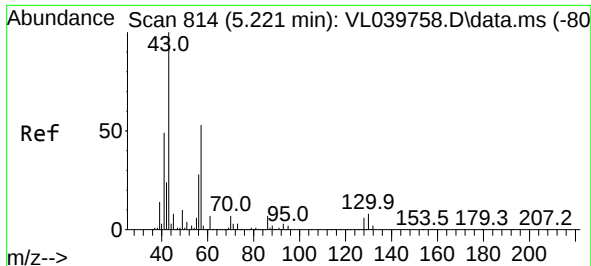
Tgt Ion:	43	Resp:	3023
Ion	Ratio	Lower	Upper
43	100		
86	8.0	4.9	7.3#
42	71.4	7.2	10.8#
44	58.7	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.477 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.010 min
 Lab File: VL039804.D
 Acq: 26 Oct 2022 2:02

Tgt Ion:	43	Resp:	92721
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.2	12.2#
61	0.1	8.2	12.4#
70	0.0	5.7	8.5#

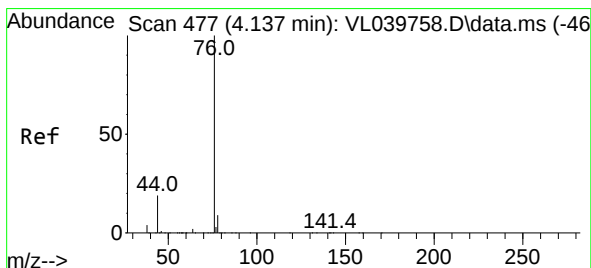
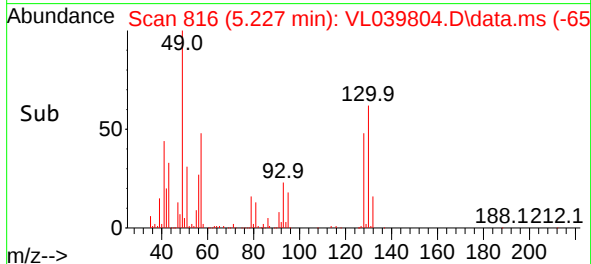
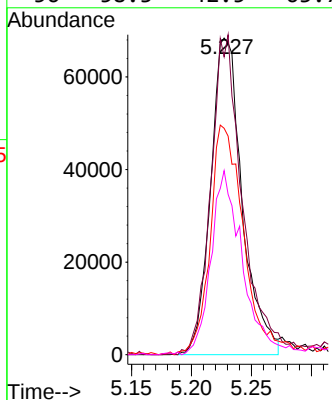
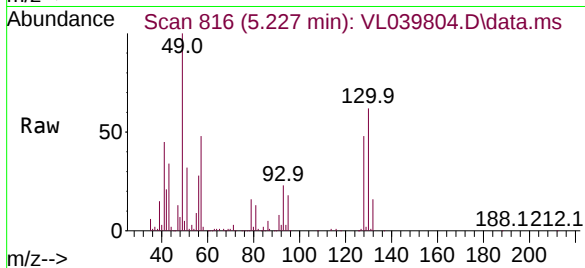




#26
Hexane
Concen: 1.549 ppbv
RT: 5.227 min Scan# 814
Delta R.T. 0.007 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

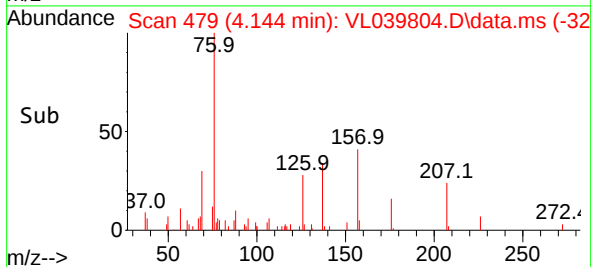
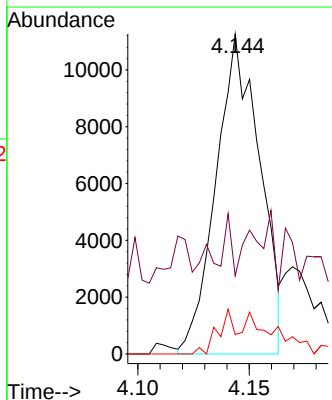
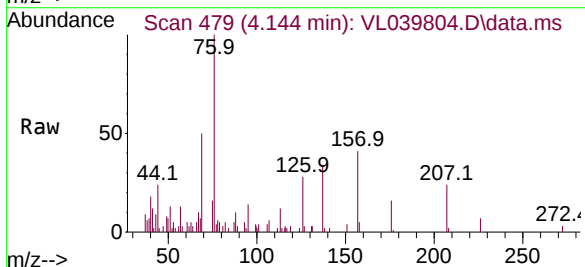
Instrument :
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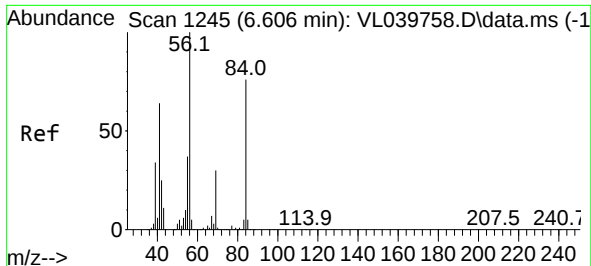
Tgt Ion: 57 Resp: 125106
Ion Ratio Lower Upper
57 100
41 105.2 76.1 114.1
43 79.2 197.1 295.7#
56 58.3 42.5 63.7



#27
Carbon Disulfide
Concen: 0.160 ppbv
RT: 4.144 min Scan# 479
Delta R.T. 0.007 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 76 Resp: 15371
Ion Ratio Lower Upper
76 100
44 0.0 16.6 25.0#
78 15.2 7.6 11.4#

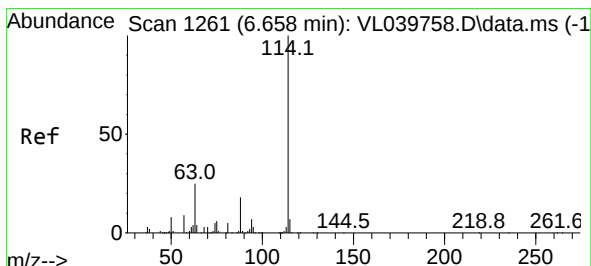
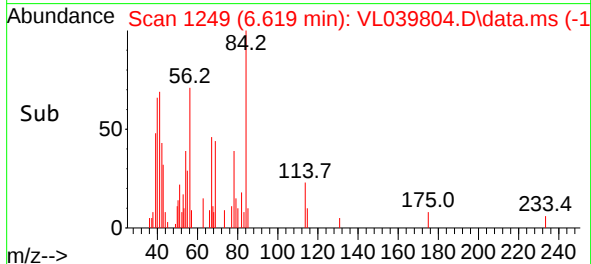
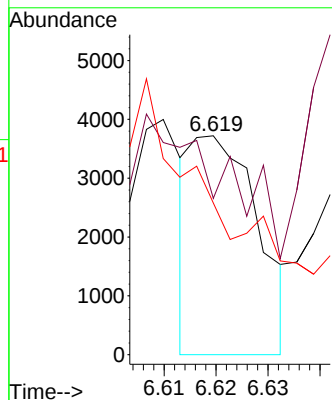
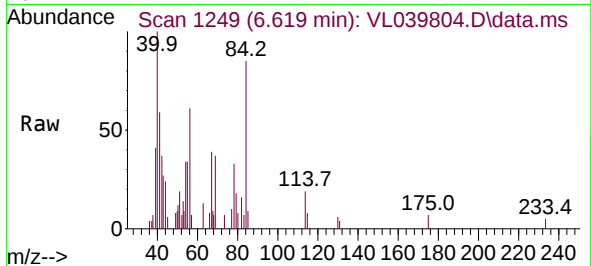




#30
Cyclohexane
Concen: 0.050 ppbv
RT: 6.619 min Scan# 1249
Delta R.T. 0.013 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

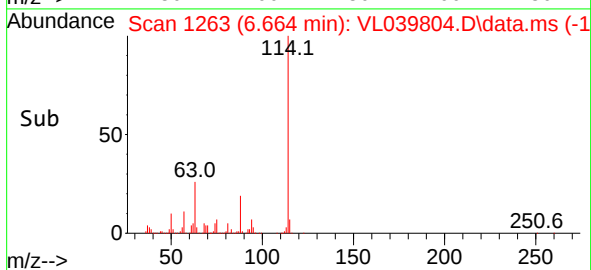
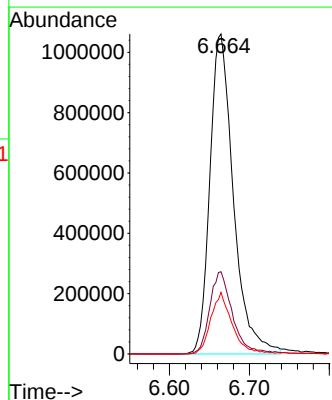
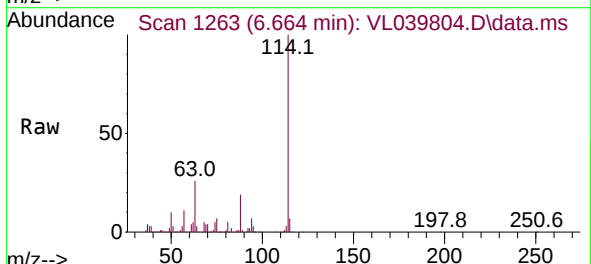
Instrument :
MSVOA_L
ClientSampleId :
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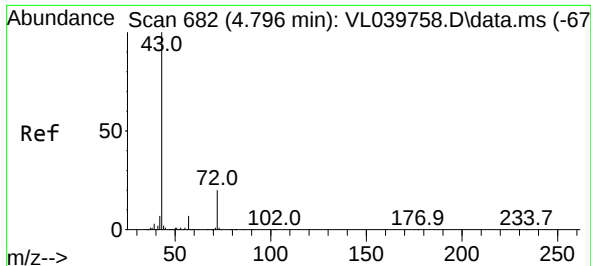
Tgt Ion: 84 Resp: 3320
Ion Ratio Lower Upper
84 100
56 0.0 111.8 167.6#
41 0.0 71.5 107.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. 0.007 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 114 Resp: 2166335
Ion Ratio Lower Upper
114 100
63 25.4 20.1 30.1
88 17.8 14.5 21.7

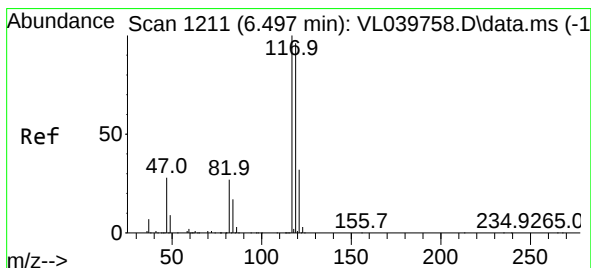
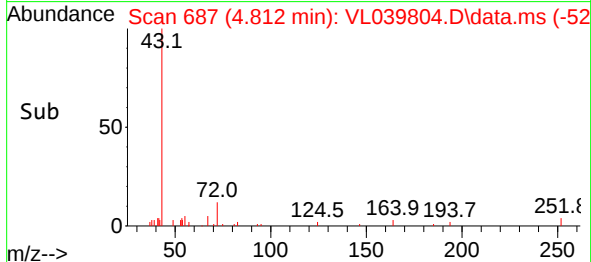
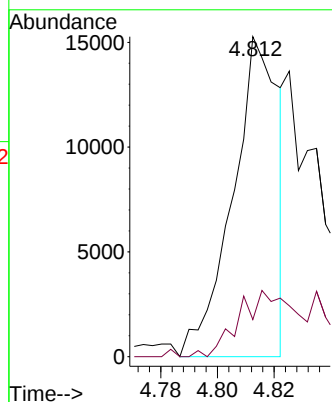
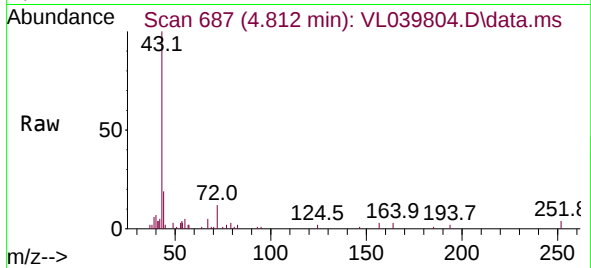




#34
2-Butanone
Concen: 0.168 ppbv
RT: 4.812 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

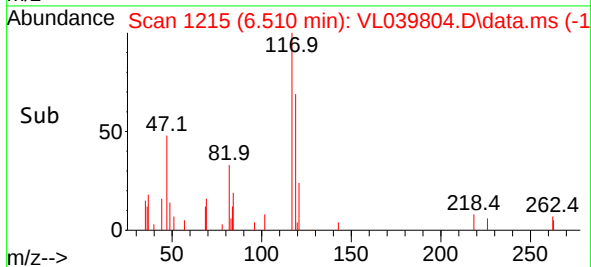
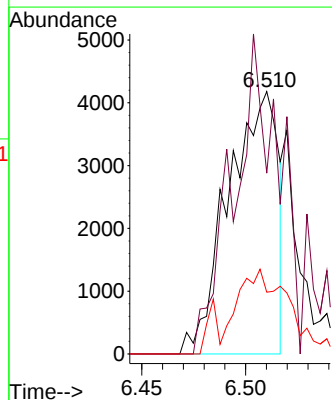
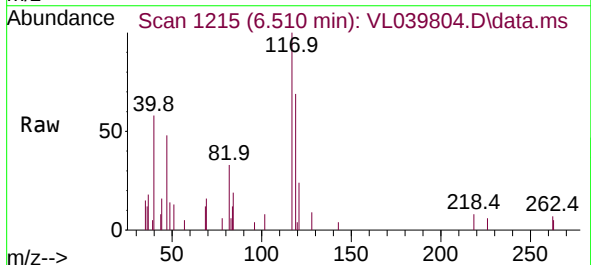
Instrument :
MSVOA_L
ClientSampleId :
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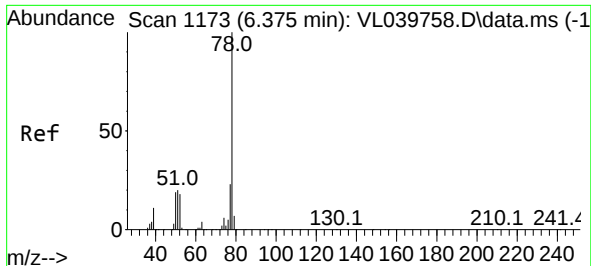
Tgt Ion: 43 Resp: 17077
Ion Ratio Lower Upper
43 100
72 41.7 16.5 24.7#



#35
Carbon Tetrachloride
Concen: 0.056 ppbv
RT: 6.510 min Scan# 1215
Delta R.T. 0.013 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 117 Resp: 6938
Ion Ratio Lower Upper
117 100
119 68.9 76.6 115.0#
121 23.5 25.3 37.9#

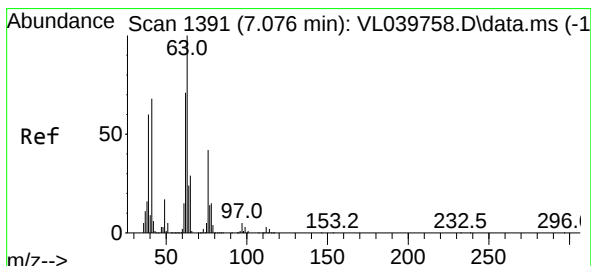
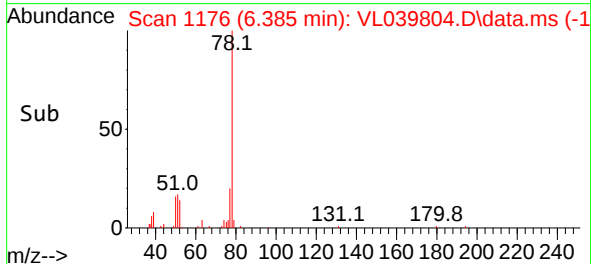
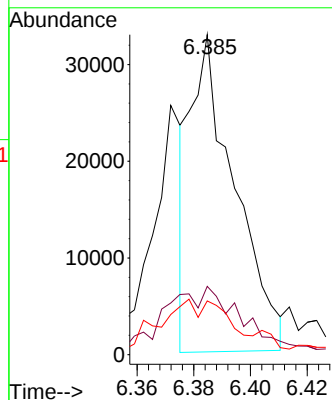
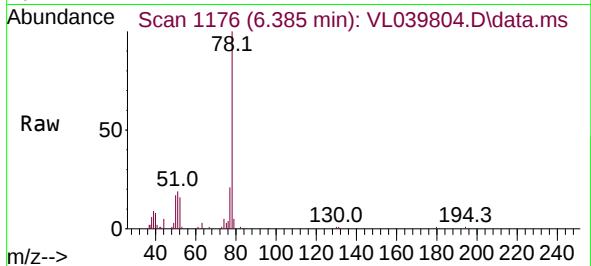




#36
Benzene
Concen: 0.214 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. 0.010 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

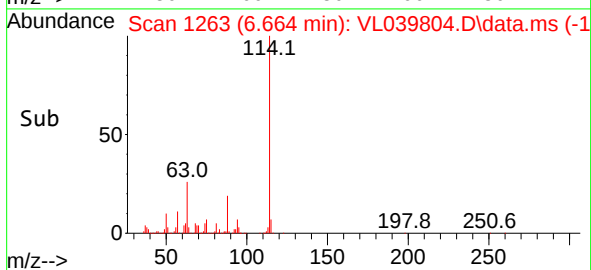
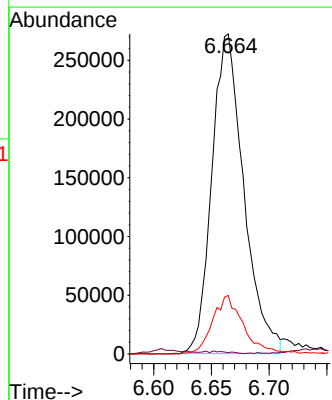
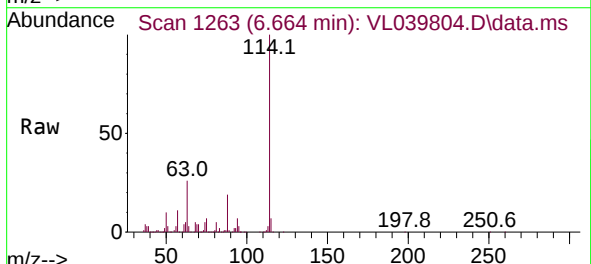
Instrument :
MSVOA_L
ClientSampleId :
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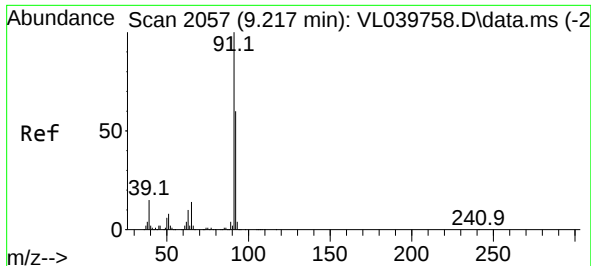
Tgt Ion: 78 Resp: 35697
Ion Ratio Lower Upper
78 100
77 19.4 18.3 27.5
50 16.6 15.2 22.8



#39
1,2-Dichloropropane
Concen: 8.141 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.411 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 63 Resp: 523249
Ion Ratio Lower Upper
63 100
41 0.0 54.5 81.7#
62 18.3 56.6 85.0#

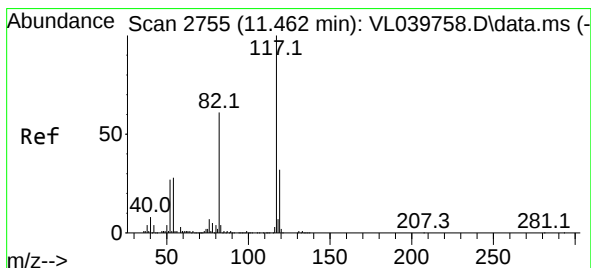
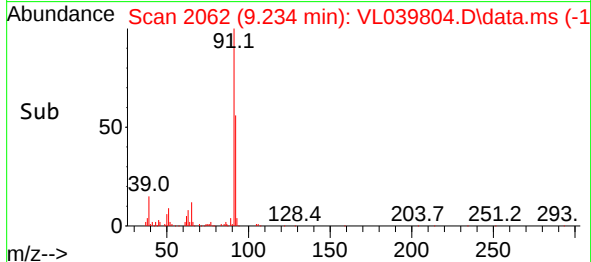
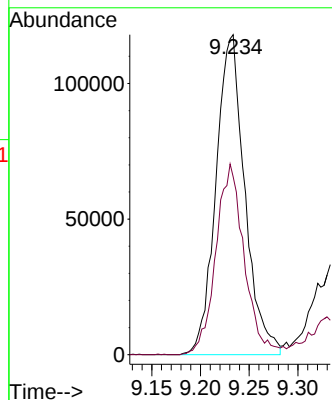
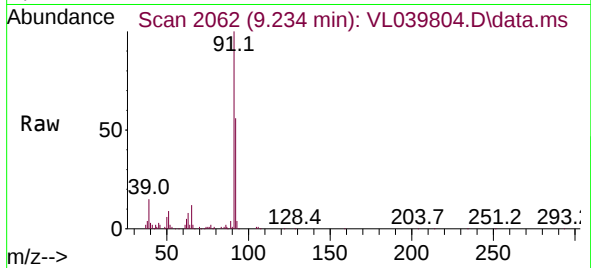




#53
Toluene
Concen: 1.390 ppbv
RT: 9.234 min Scan# 2057
Delta R.T. 0.017 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

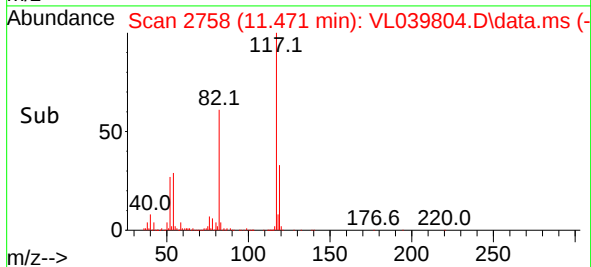
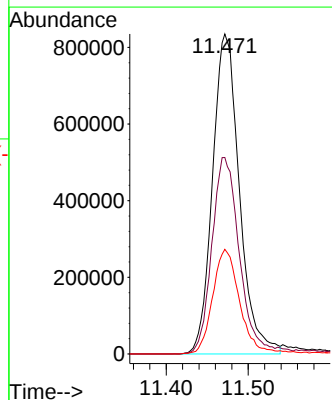
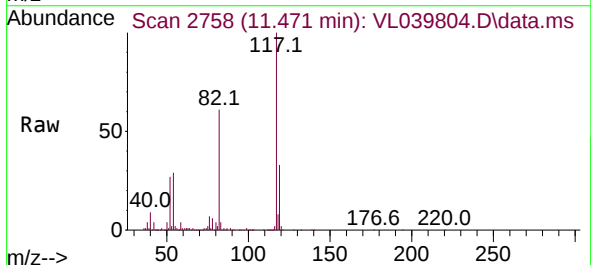
Instrument :
MSVOA_L
ClientSampleId :
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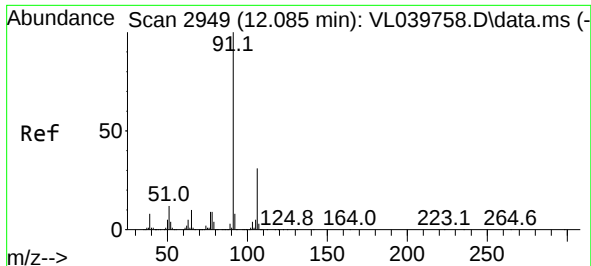
Tgt Ion: 91 Resp: 243045
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. 0.010 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 117 Resp: 1904361
Ion Ratio Lower Upper
117 100
82 65.2 49.9 74.9
119 33.8 25.2 37.8

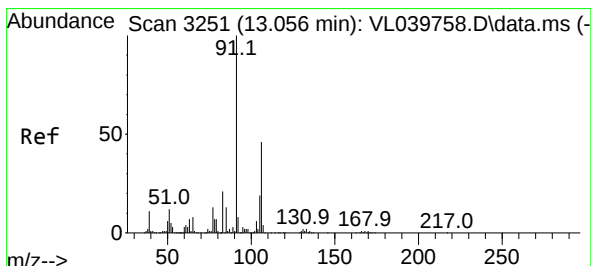
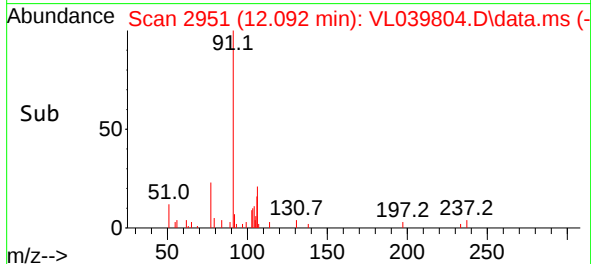
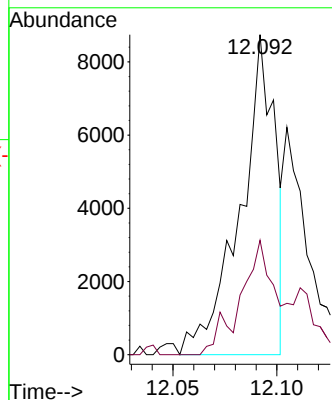
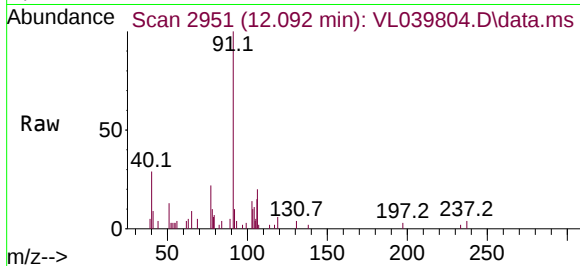




#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 12.092 min Scan# 2949
Delta R.T. 0.007 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

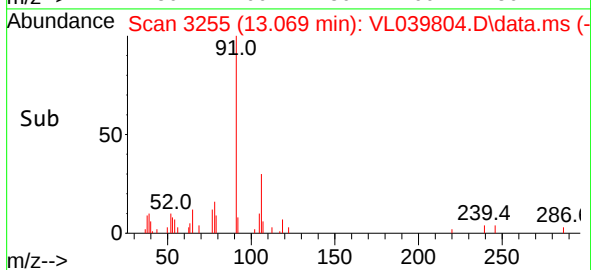
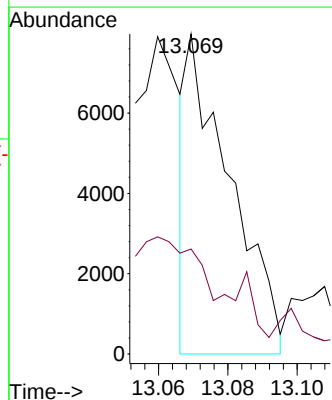
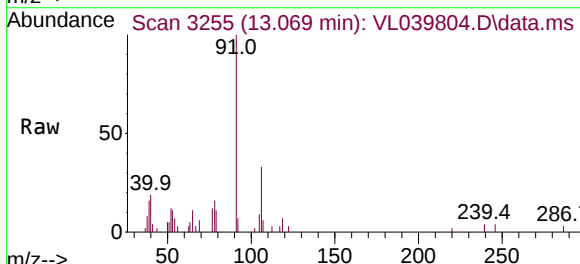
Instrument :
MSVOA_L
ClientSampleId :
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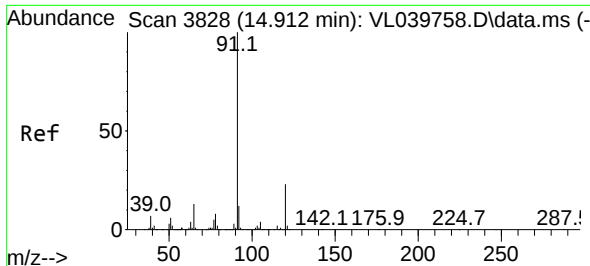
Tgt Ion: 91 Resp: 10196
Ion Ratio Lower Upper
91 100
106 35.7 24.6 36.8



#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.069 min Scan# 3255
Delta R.T. 0.013 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 91 Resp: 6954
Ion Ratio Lower Upper
91 100
106 0.0 22.9 68.8#

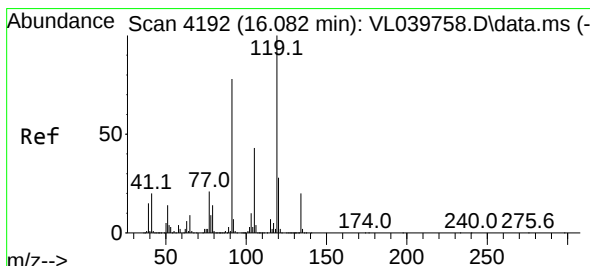
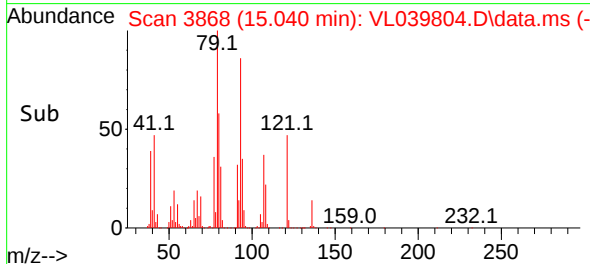
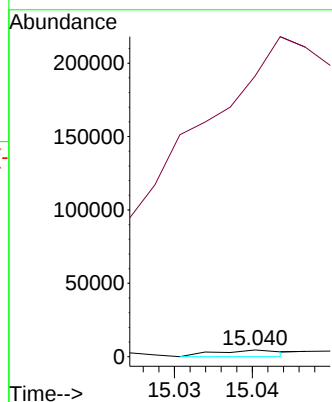
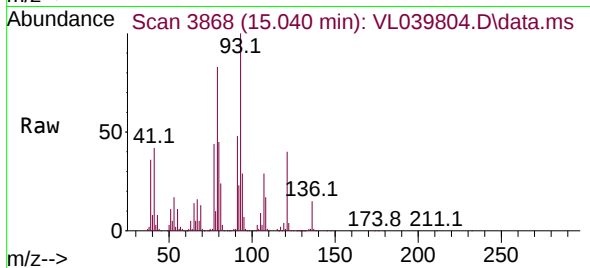




#64
n-propylbenzene
Concen: 0.038 ppbv
RT: 15.040 min Scan# 31
Delta R.T. 0.129 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

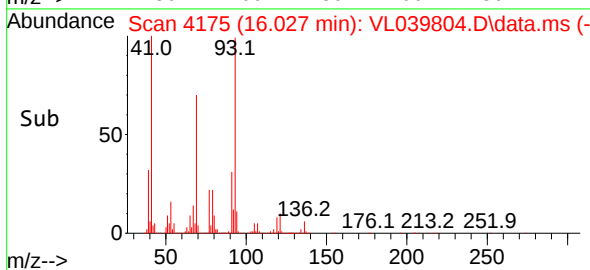
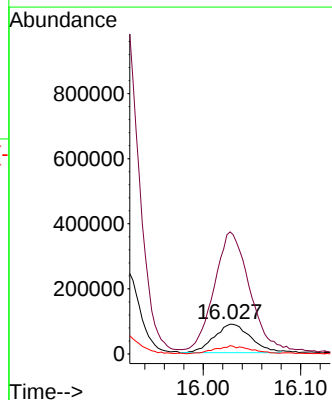
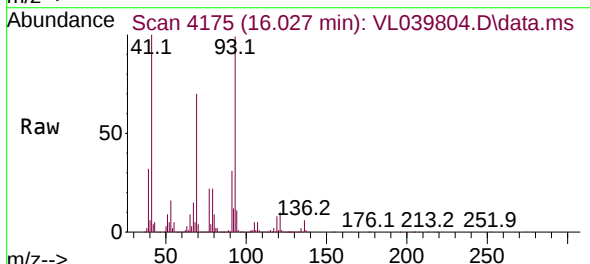
Instrument :
MSVOA_L
ClientSampleId :
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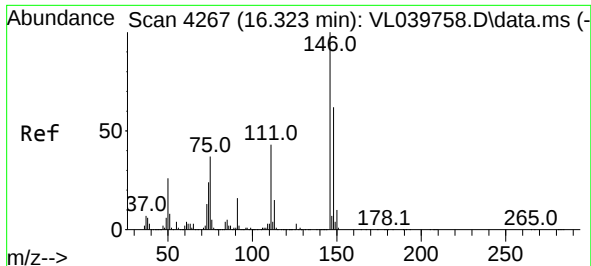
Tgt Ion:120 Resp: 2684
Ion Ratio Lower Upper
120 100
91 19456.7 386.6 579.8#



#65
tert-Butylbenzene
Concen: 0.927 ppbv
RT: 16.027 min Scan# 4175
Delta R.T. -0.055 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion:119 Resp: 226577
Ion Ratio Lower Upper
119 100
91 441.4 63.3 94.9#
134 31.5 15.5 23.3#

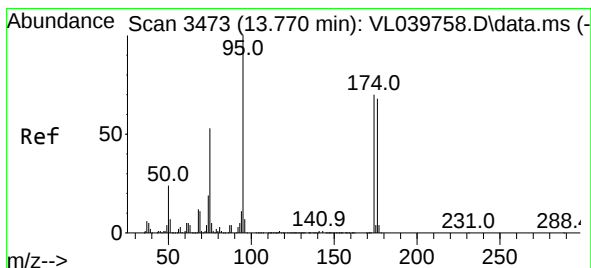
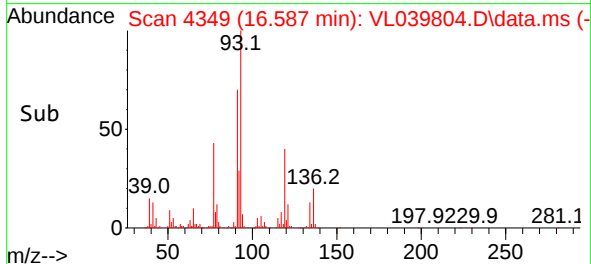
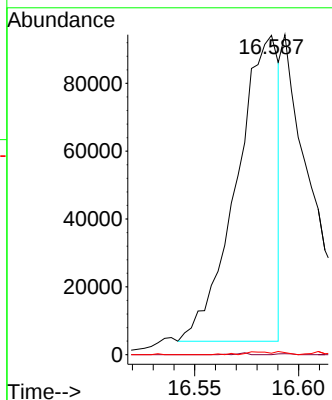
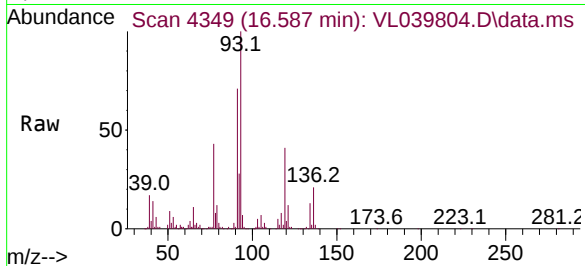




#66
Benzyl Chloride
Concen: 7.344 ppbv
RT: 16.587 min Scan# 41
Delta R.T. 0.264 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

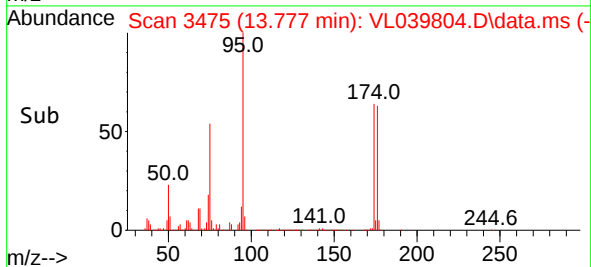
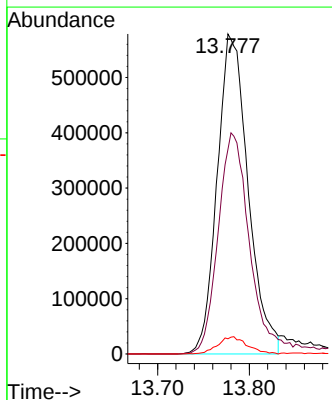
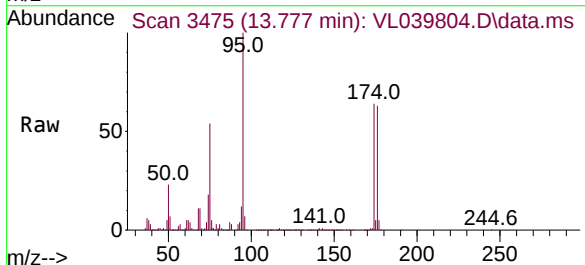
Instrument :
MSVOA_L
ClientSampleId :
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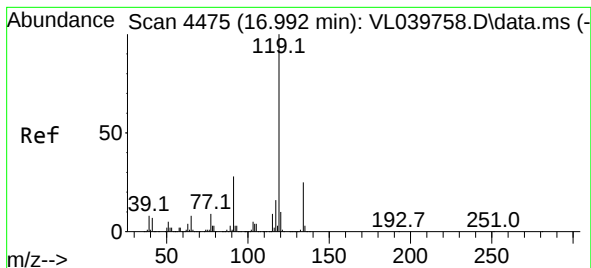
Tgt Ion: 91 Resp: 127341
Ion Ratio Lower Upper
91 100
126 0.3 13.8 20.6#
128 0.0 5.1 7.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.010 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.007 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

Tgt Ion: 95 Resp: 1356054
Ion Ratio Lower Upper
95 100
174 74.5 57.3 85.9
175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.840 ppbv

RT: 16.998 min Scan# 4475

Delta R.T. 0.007 min

Lab File: VL039804.D

Acq: 26 Oct 2022 2:02

Instrument :

MSVOA_L

ClientSampleId :

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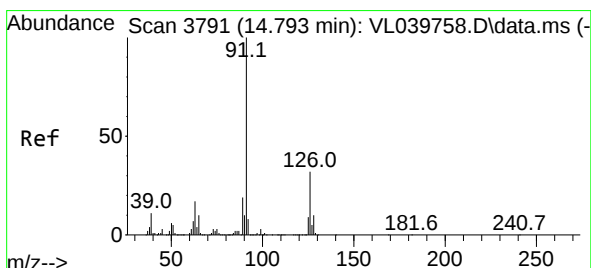
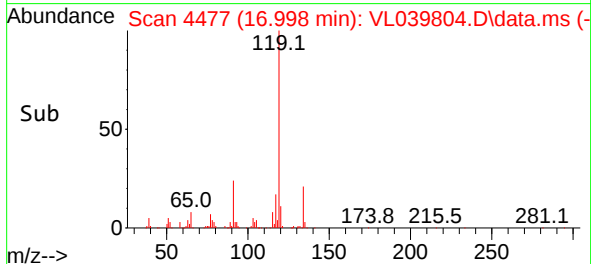
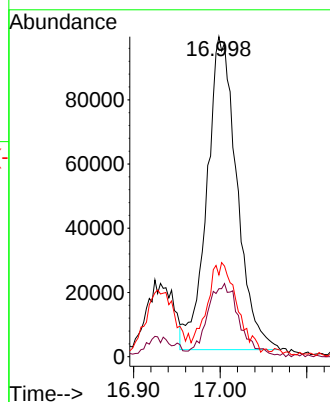
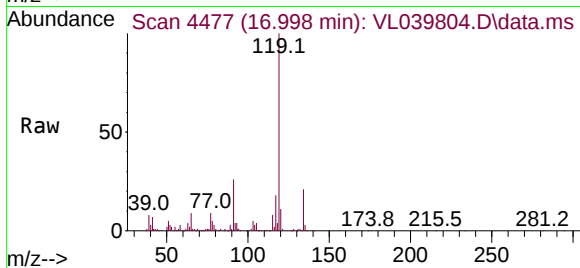
Tgt Ion:119 Resp: 234080

Ion Ratio Lower Upper

119 100

134 25.3 19.8 29.6

91 28.9 22.2 33.2



#71

2-Chlorotoluene

Concen: 50.936 ppbv

RT: 14.690 min Scan# 3759

Delta R.T. -0.103 min

Lab File: VL039804.D

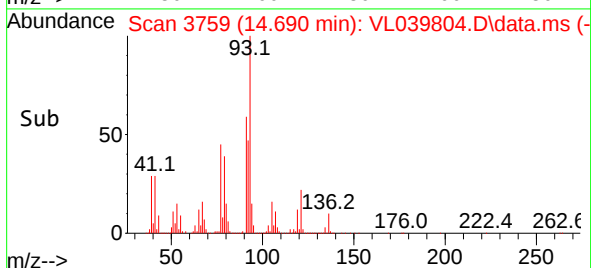
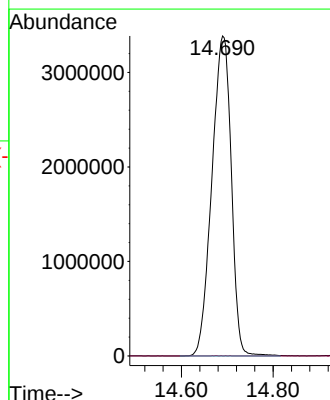
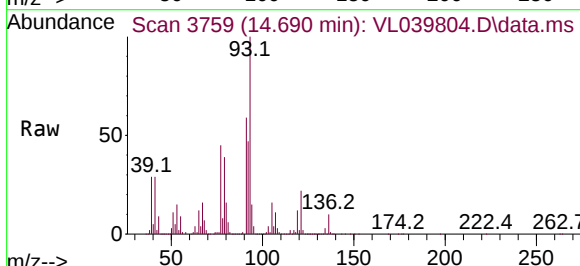
Acq: 26 Oct 2022 2:02

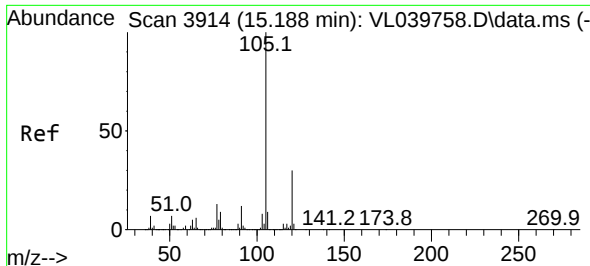
Tgt Ion: 91 Resp: 9923489

Ion Ratio Lower Upper

91 100

126 0.0 13.0 52.0#

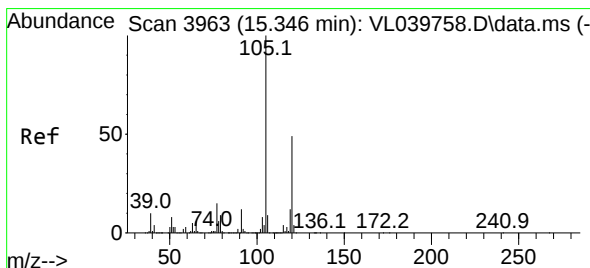
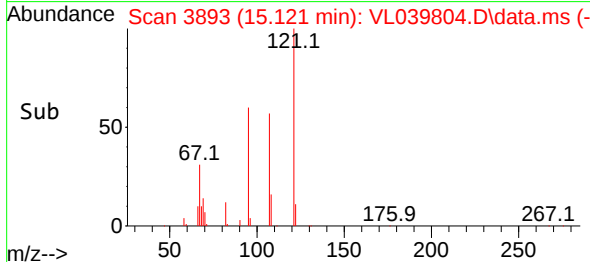
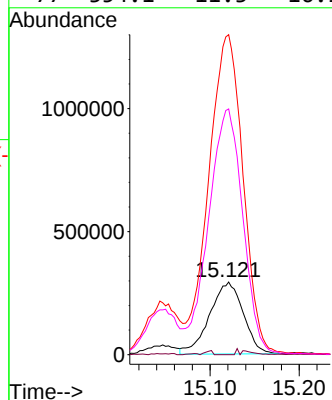
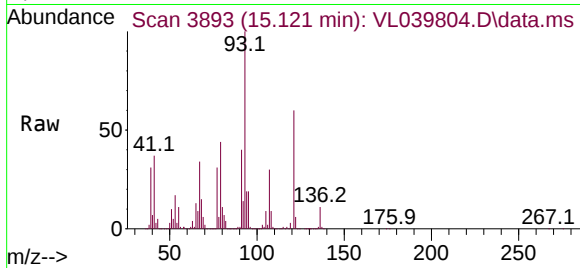




#72
4-Ethyltoluene
Concen: 3.624 ppbv
RT: 15.121 min Scan# 3893
Delta R.T. -0.067 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

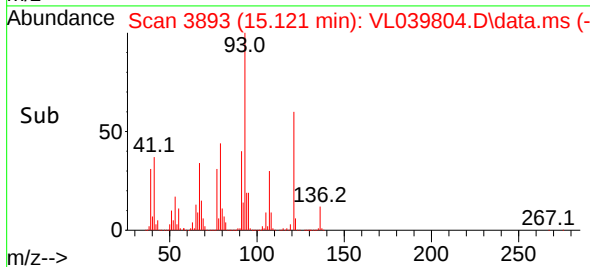
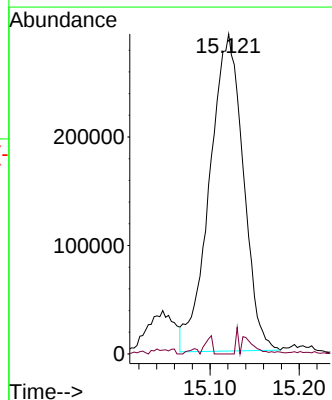
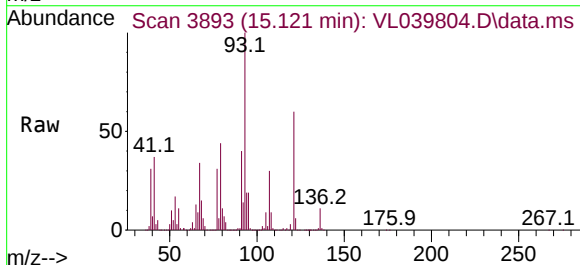
Instrument :
MSVOA_L
ClientSampleId :
K

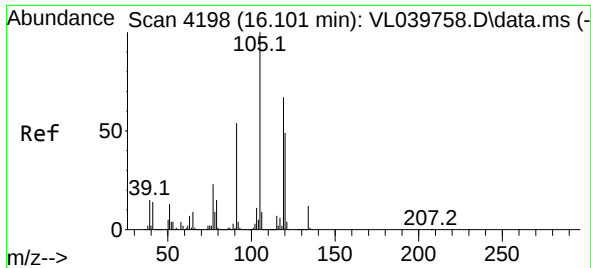
Tgt Ion:105 Resp: 766559
Ion Ratio Lower Upper
105 100
120 2.7 25.0 37.6#
91 462.1 10.2 15.2#
77 354.1 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 4.050 ppbv
RT: 15.121 min Scan# 3893
Delta R.T. -0.225 min
Lab File: VL039804.D
Acq: 26 Oct 2022 2:02

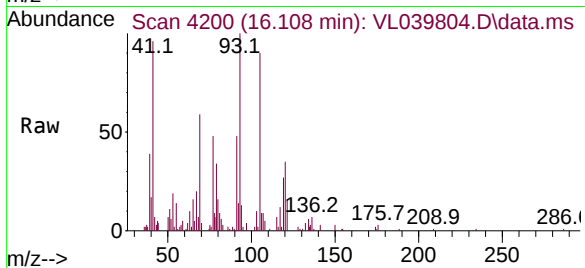
Tgt Ion:105 Resp: 766559
Ion Ratio Lower Upper
105 100
120 0.0 39.0 58.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.137 ppbv
 RT: 16.108 min Scan# 4198
 Delta R.T. 0.007 min
 Lab File: VL039804.D
 Acq: 26 Oct 2022 2:02

Instrument :
 MSVOA_L
 ClientSampleId :
 K



Tgt Ion:	105	Resp:	29450
Ion	Ratio	Lower	Upper
105	100		
120	36.5	39.6	59.4#
91	14.8	42.9	64.3#
77	34.7	18.2	27.4#

