

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035822.D
 Acq On : 23 May 2023 18:25
 Operator : JC/MD
 Sample : 02830-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEMI-ANNUAL-CONDENSATEDL

Quant Time: May 24 05:52:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 05/25/2023
 Supervised By :Mahesh Dadoda 05/25/2023

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

Internal Standards						
1) Bromochloromethane	4.904	128	33955	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	200702	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	179240	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	84485	29.945	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.833%		
60) 4-Bromofluorobenzene	11.079	95	88899	29.558	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.533%		
63) Toluene-d8	8.647	98	238859	30.144	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.467%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	1617	1.282	ug/l	93
15) Acetone	2.404	58	157029	435.431	ug/l	96
23) tert-Butyl Alcohol	3.038	59	476797m	1083.374	ug/l	
30) 2-Butanone	4.568	43	1021439	558.302	ug/l	99
34) Benzene	6.038	78	56508	6.409	ug/l	98
45) 1,4-Dioxane	7.745	88	14015m	259.442	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	40443	11.617	ug/l	99
59) 2-Hexanone	9.433	43	17879	6.825	ug/l	93
62) Toluene	8.720	91	189922	20.576	ug/l	100
64) Chlorobenzene	10.079	112	13050	2.232	ug/l	93
66) Ethyl Benzene	10.195	91	102941	9.972	ug/l	97
67) m/p-Xylenes	10.299	106	40873	10.460	ug/l	97
68) o-Xylene	10.640	106	21588	5.523	ug/l	97
70) Isopropylbenzene	10.963	105	13591	1.362	ug/l	99
74) n-propylbenzene	11.305	91	10563	0.888	ug/l	99
75) 2-Chlorotoluene	11.378	91	8325	1.140	ug/l	54
76) 1,3,5-Trimethylbenzene	11.451	105	21483	2.536	ug/l	100
78) 4-Chlorotoluene	11.451	91	3275	0.394	ug/l	52
80) 1,2,4-Trimethylbenzene	11.750	105	75535	8.871	ug/l	99
81) sec-Butylbenzene	11.884	105	4480	0.434	ug/l	68
82) p-Isopropyltoluene	12.006	119	431917	50.272	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	67420	14.643	ug/l	99
85) n-Butylbenzene	12.323	91	5559m	0.727	ug/l	
87) 1,2-Dichlorobenzene	12.335	146	2880	0.641	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	828	0.307	ug/l #	76
91) Naphthalene	13.774	128	522151	56.018	ug/l	100

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

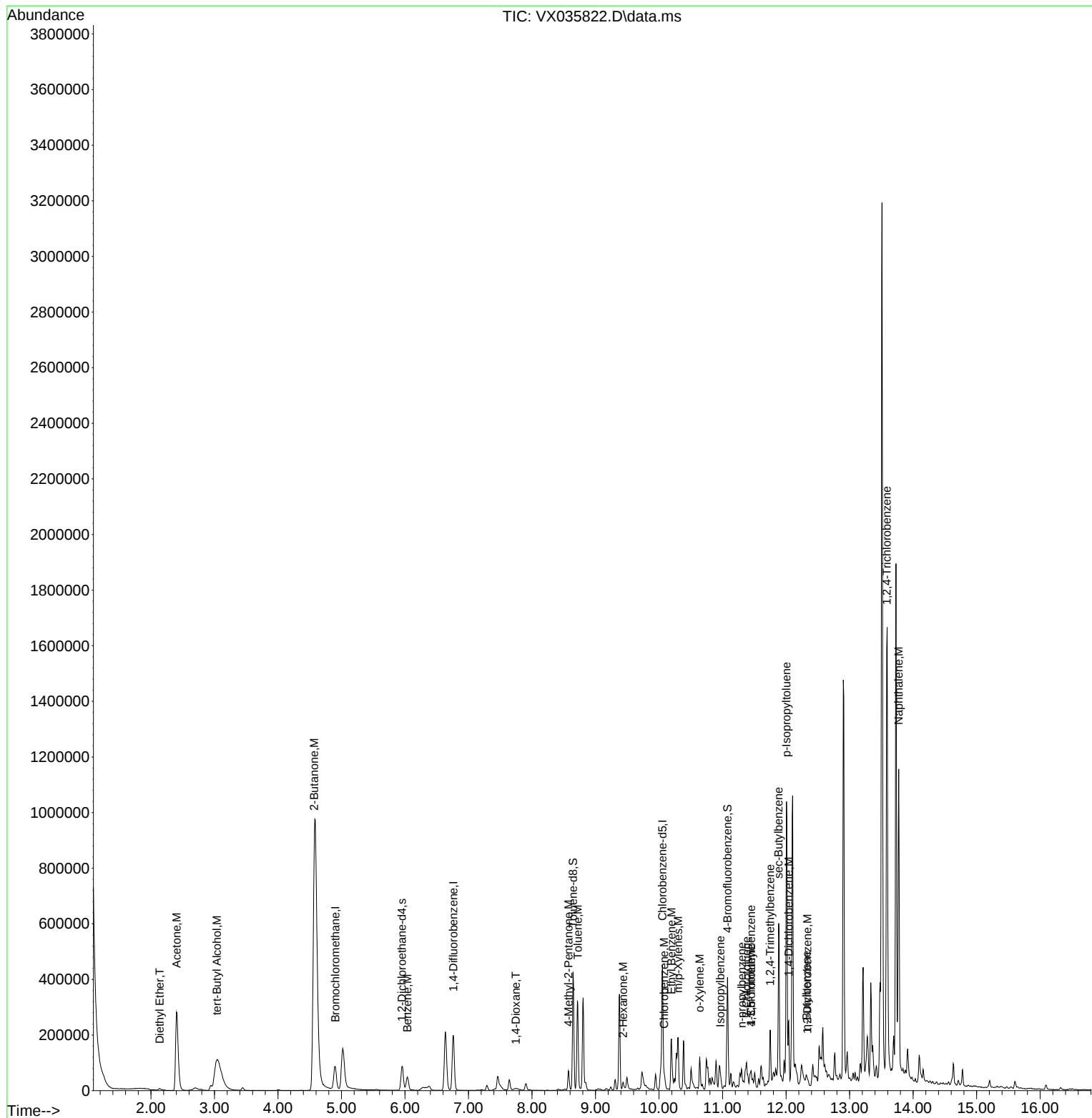
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Data File : VX035822.D
Acq On : 23 May 2023 18:25
Operator : JC/MD
Sample : 02830-01DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

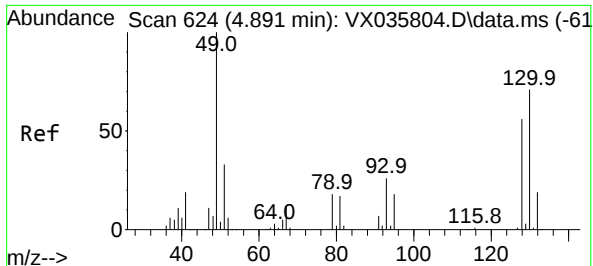
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL

Quant Time: May 24 05:52:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 23 11:36:37 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023





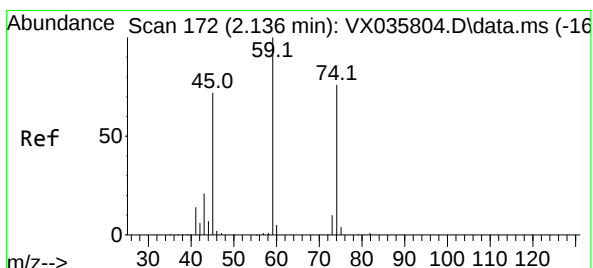
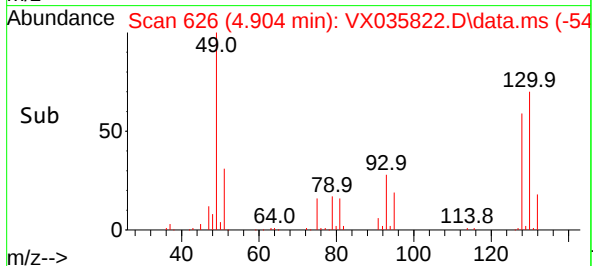
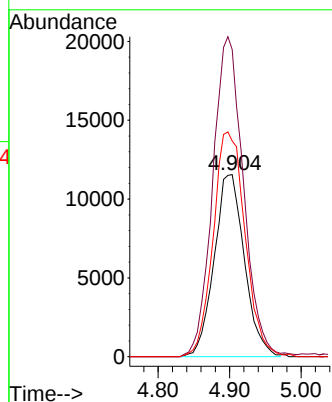
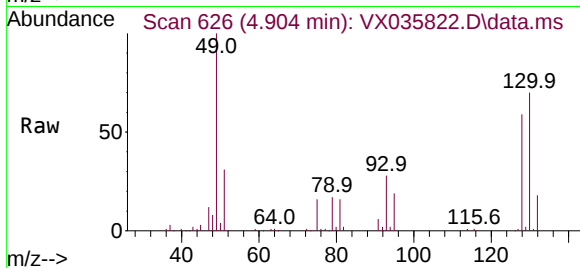
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.013 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL

Tgt Ion:128 Resp: 3395
Ion Ratio Lower Upper
128 100
49 178.3 0.0 428.8
130 130.2 0.0 310.8

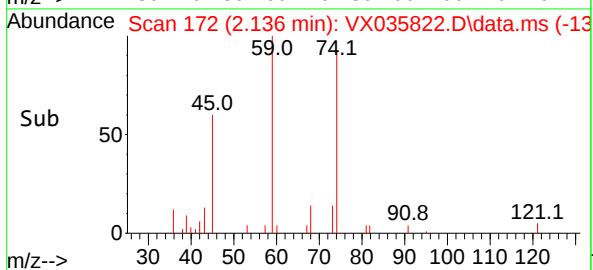
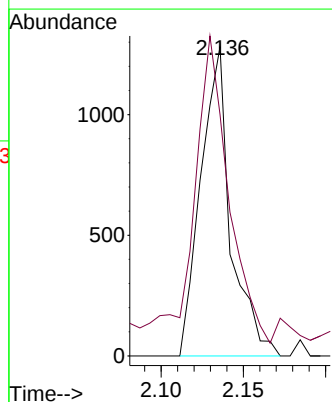
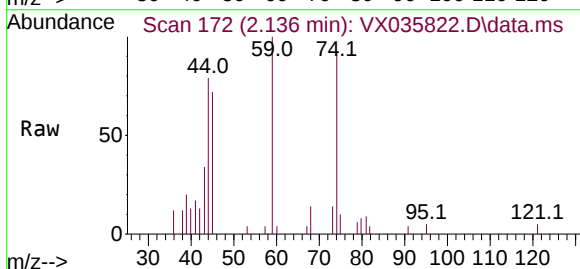
Manual Integrations
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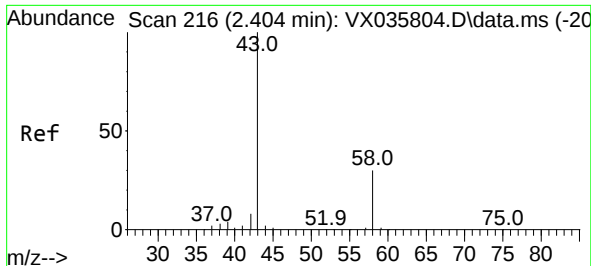
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#8
Diethyl Ether
Concen: 1.282 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

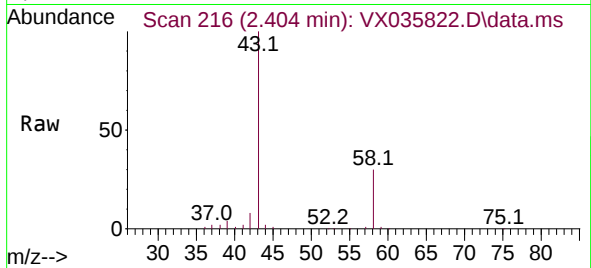
Tgt Ion: 74 Resp: 1617
Ion Ratio Lower Upper
74 100
45 109.6 20.5 184.5





#15
Acetone
Concen: 435.431 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

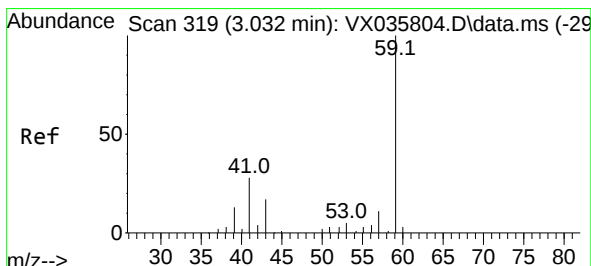
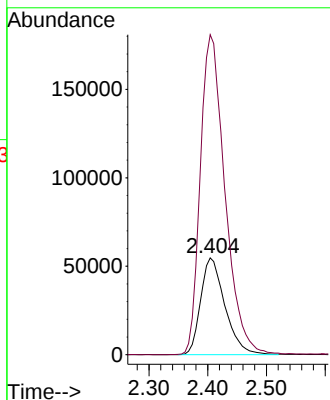
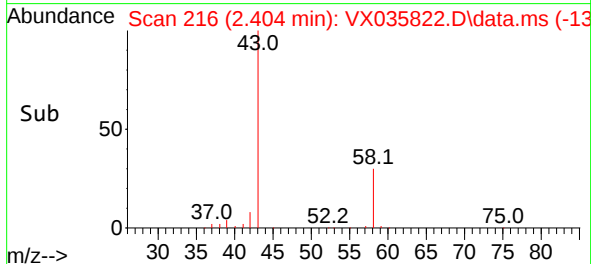
Instrument : MSVOA_X
ClientSampleId : SEMI-ANNUAL-CONDENSATEDL



Tgt Ion: 58 Resp: 157029
Ion Ratio Lower Upper
58 100
43 330.2 270.8 406.2

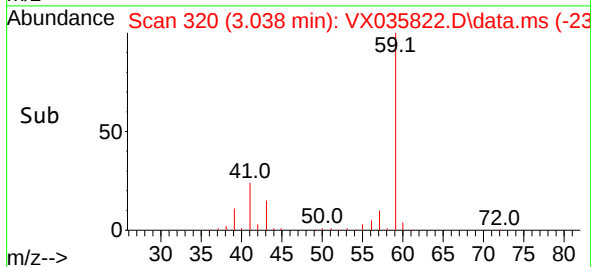
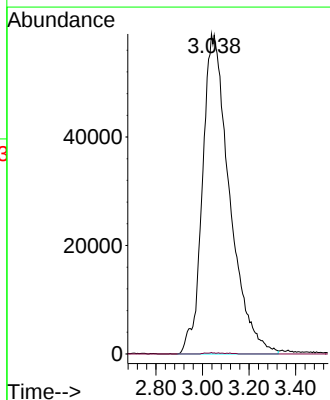
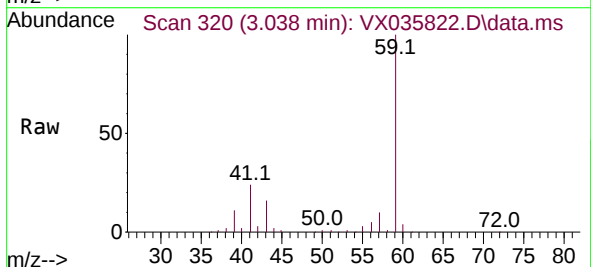
Manual Integrations
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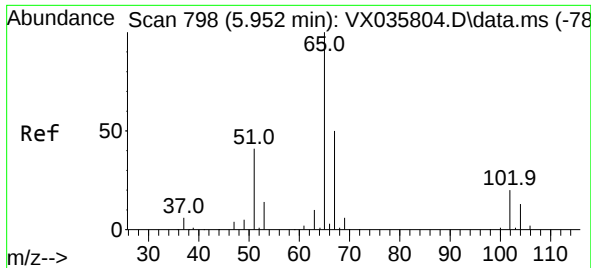
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#23
tert-Butyl Alcohol
Concen: 1083.374 ug/l m
RT: 3.038 min Scan# 320
Delta R.T. 0.006 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Tgt Ion: 59 Resp: 476797
Ion Ratio Lower Upper
59 100
52 0.1 0.2 0.4#





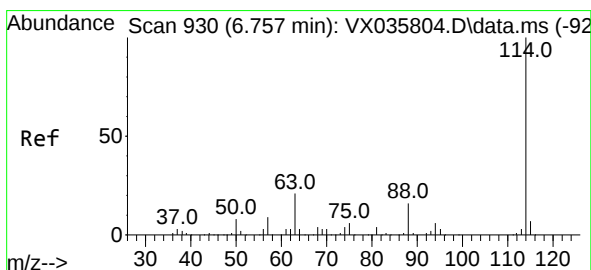
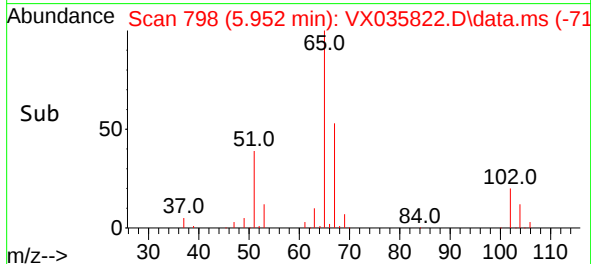
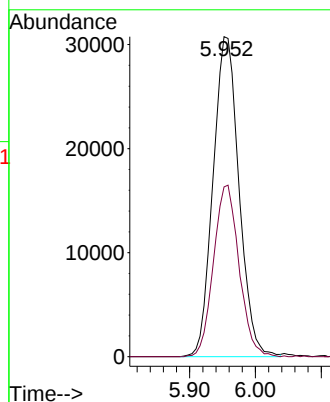
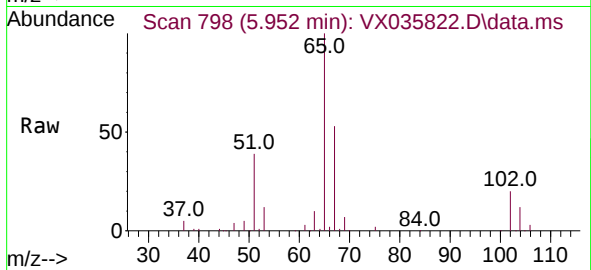
#27
1,2-Dichloroethane-d4
Concen: 29.945 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL

Tgt Ion: 65 Resp: 8448
Ion Ratio Lower Upper
65 100
67 52.7 40.9 61.3

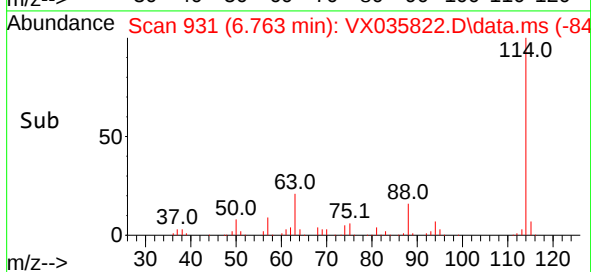
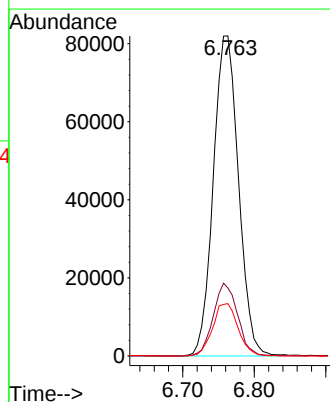
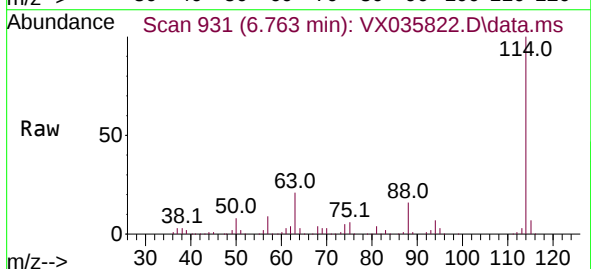
Manual Integrations
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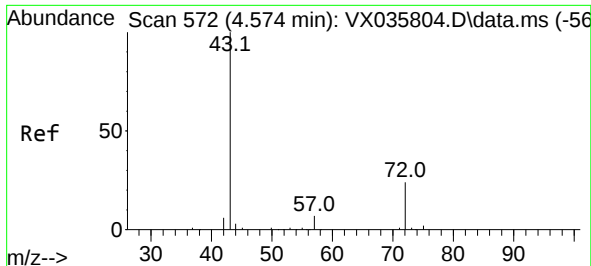
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

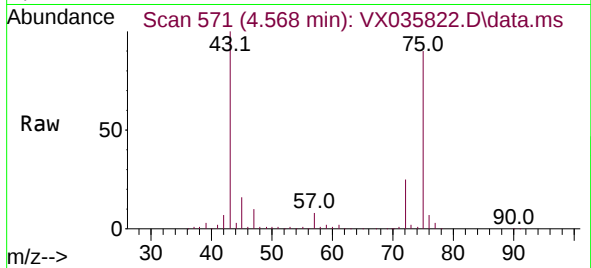
Tgt Ion:114 Resp: 200702
Ion Ratio Lower Upper
114 100
63 22.0 18.0 27.0
88 16.5 13.3 19.9





#30
2-Butanone
Concen: 558.302 ug/l
RT: 4.568 min Scan# 51
Delta R.T. -0.006 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

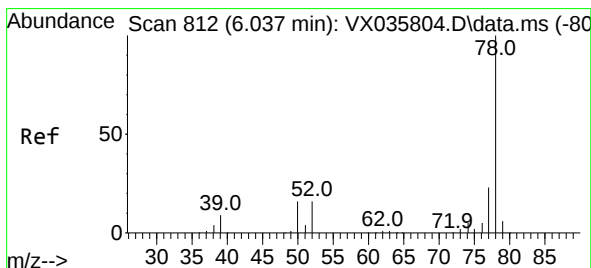
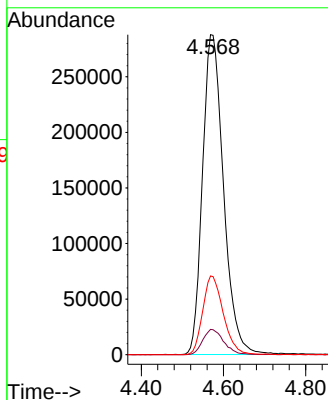
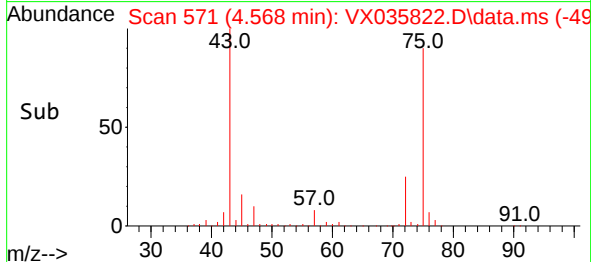
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL



Tgt Ion: 43 Resp: 1021439
Ion Ratio Lower Upper
43 100
57 7.9 6.3 9.5
72 24.0 19.6 29.4

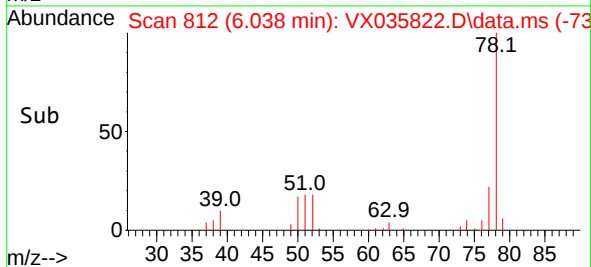
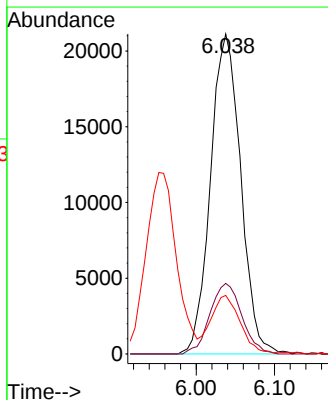
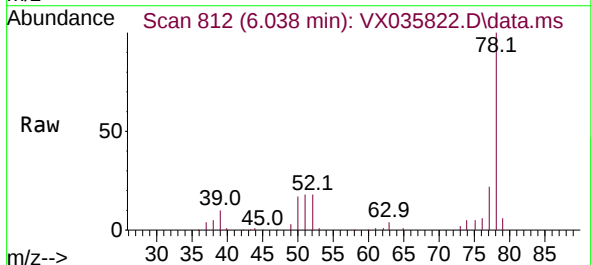
Manual Integrations
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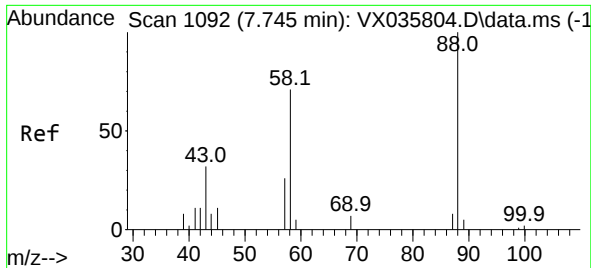
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#34
Benzene
Concen: 6.409 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Tgt Ion: 78 Resp: 56508
Ion Ratio Lower Upper
78 100
77 22.0 19.0 28.4
51 17.7 14.6 21.8





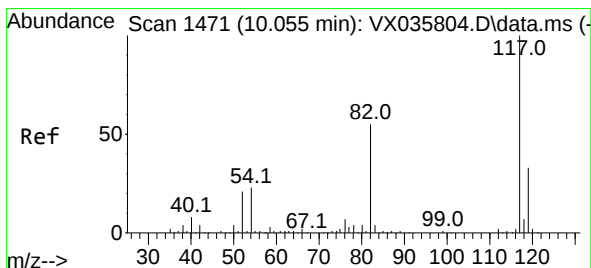
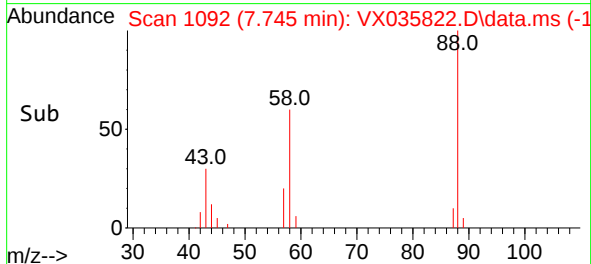
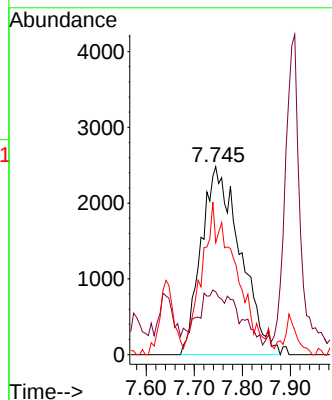
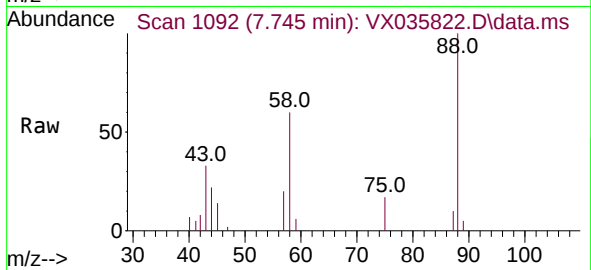
#45
1,4-Dioxane
Concen: 259.442 ug/l m
RT: 7.745 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL

Tgt Ion: 88 Resp: 14015
Ion Ratio Lower Upper
88 100
43 1.6 26.5 39.7
58 2.0 55.6 83.4

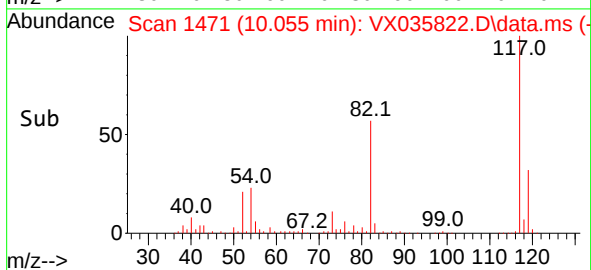
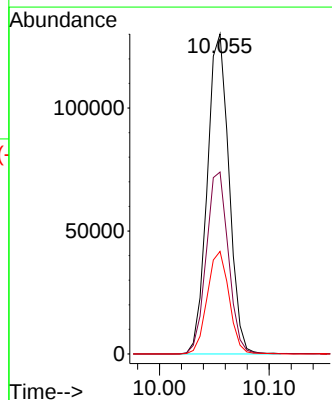
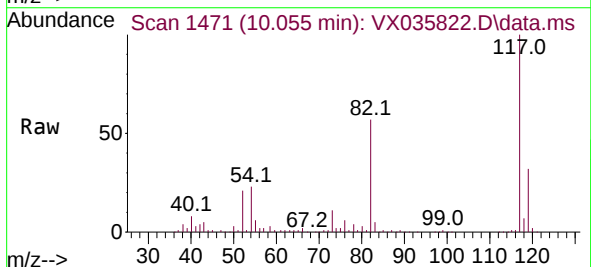
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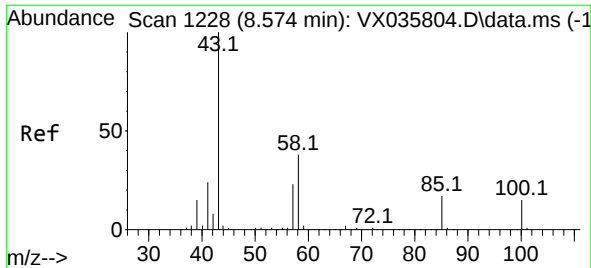
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

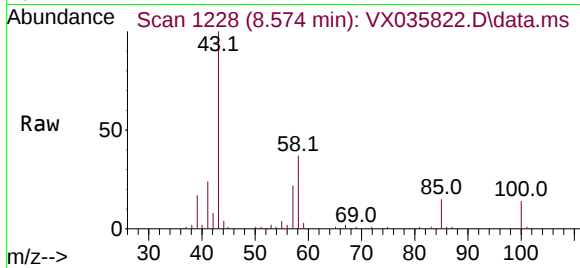
Tgt Ion:117 Resp: 179240
Ion Ratio Lower Upper
117 100
82 58.0 45.8 68.8
119 32.3 25.4 38.0





#58
4-Methyl-2-Pentanone
Concen: 11.617 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

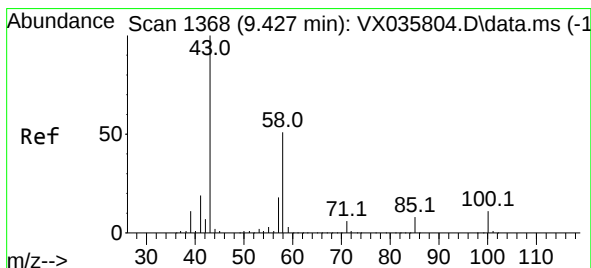
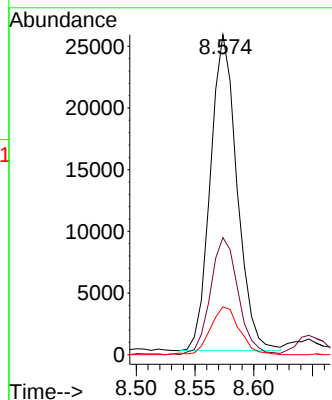
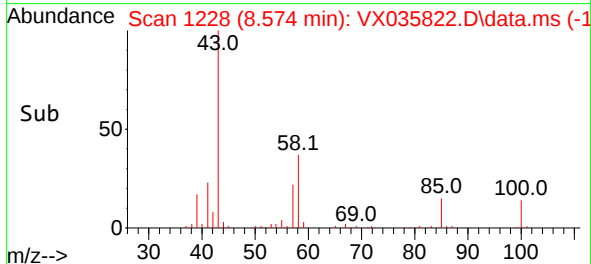
Instrument : MSVOA_X
ClientSampleId : SEMI-ANNUAL-CONDENSATEDL



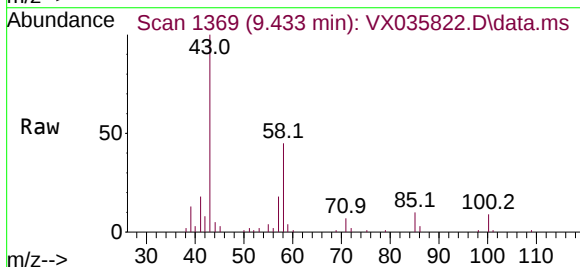
Tgt Ion: 43 Resp: 4044
Ion Ratio Lower Upper
43 100
58 38.5 29.9 44.9
85 16.3 13.2 19.8

Manual Integrations
APPROVED

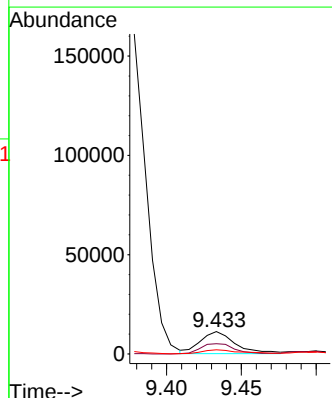
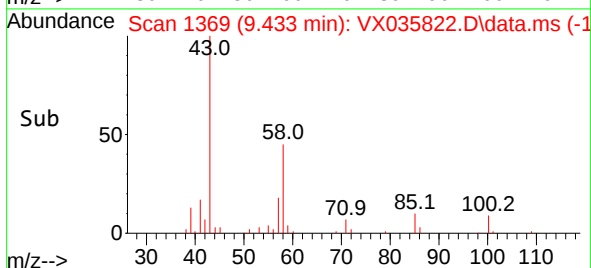
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

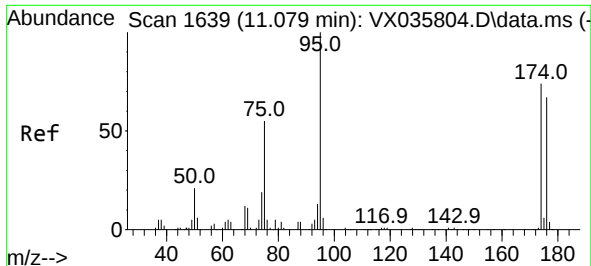


#59
2-Hexanone
Concen: 6.825 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25



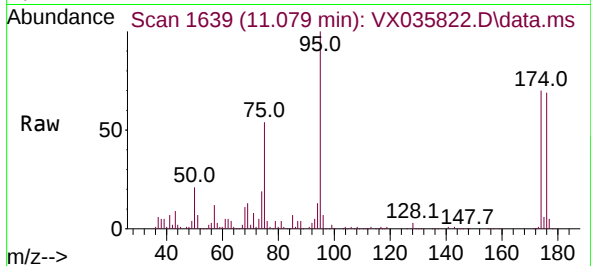
Tgt Ion: 43 Resp: 17879
Ion Ratio Lower Upper
43 100
58 47.1 41.7 62.5
57 20.9 14.7 22.1





#60
4-Bromofluorobenzene
Concen: 29.558 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

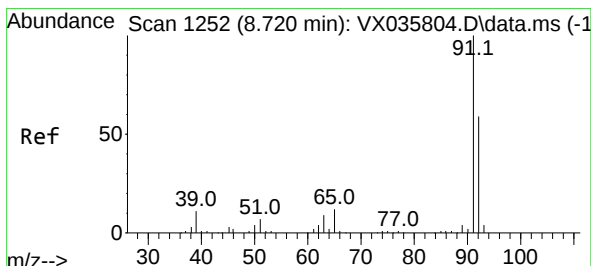
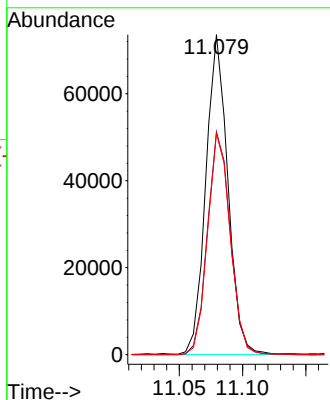
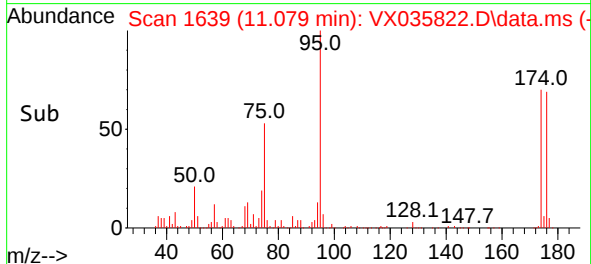
Instrument : MSVOA_X
ClientSampleId : SEMI-ANNUAL-CONDENSATEDL



Tgt Ion: 95 Resp: 88895
Ion Ratio Lower Upper
95 100
174 72.1 0.2 0.4
176 70.9 0.2 0.2

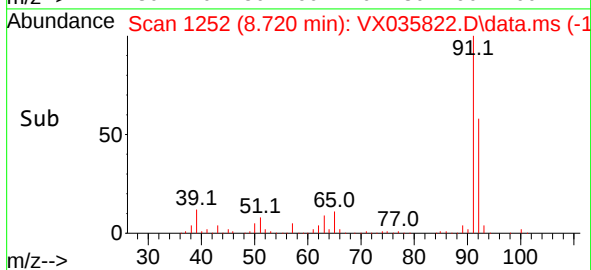
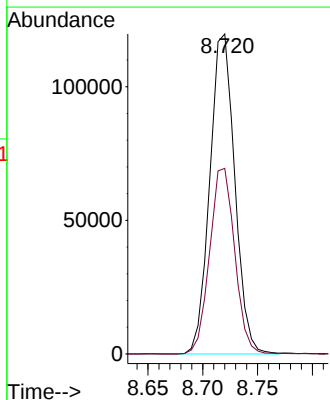
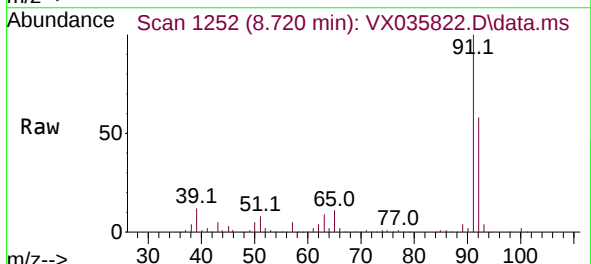
Manual Integrations
APPROVED

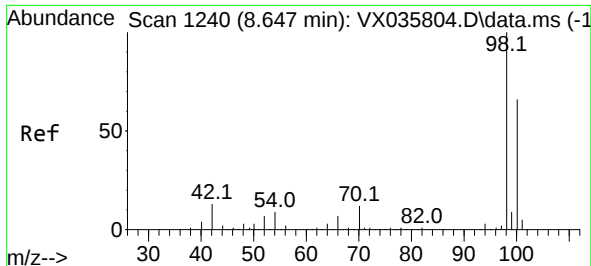
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#62
Toluene
Concen: 20.576 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

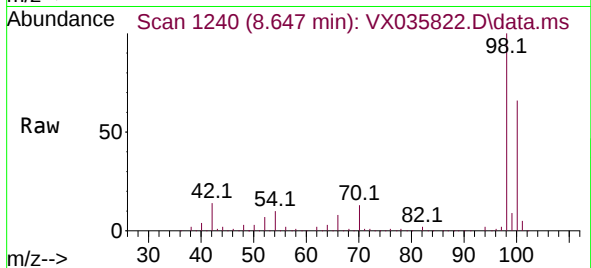
Tgt Ion: 91 Resp: 189922
Ion Ratio Lower Upper
91 100
92 58.3 46.5 69.7





#63
Toluene-d8
Concen: 30.144 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

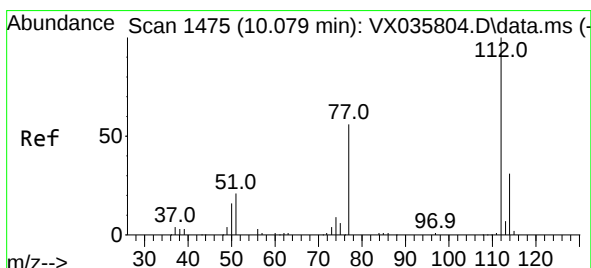
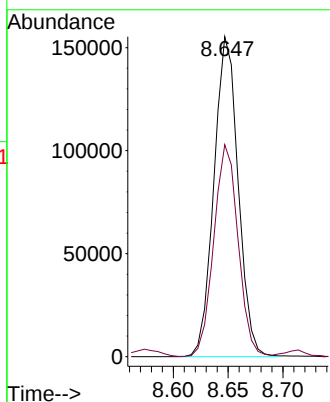
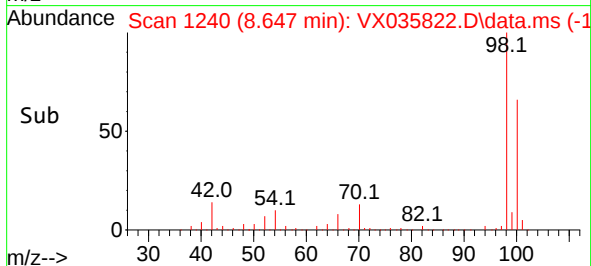
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL



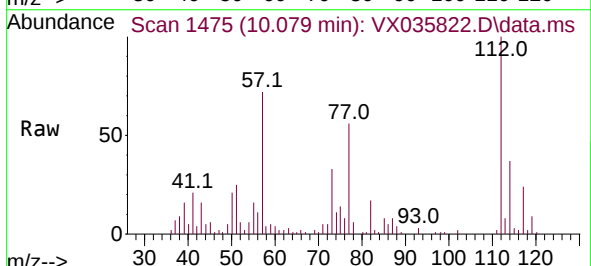
Tgt Ion: 98 Resp: 238859
Ion Ratio Lower Upper
98 100
100 66.5 52.1 78.1

Manual Integrations
APPROVED

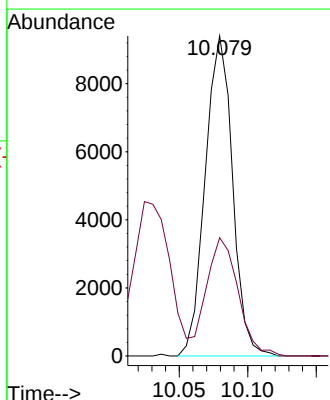
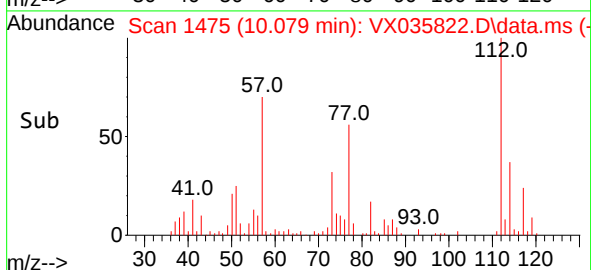
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

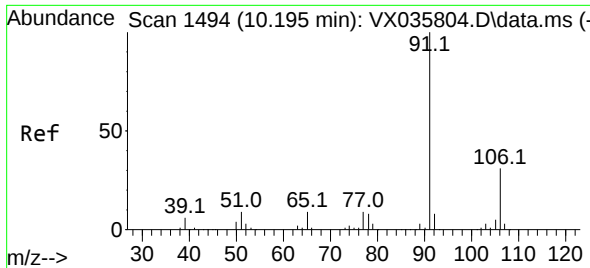


#64
Chlorobenzene
Concen: 2.232 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25



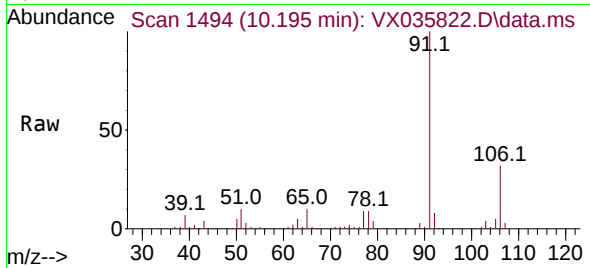
Tgt Ion:112 Resp: 13050
Ion Ratio Lower Upper
112 100
114 36.4 25.8 38.8





#66
Ethyl Benzene
Concen: 9.972 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

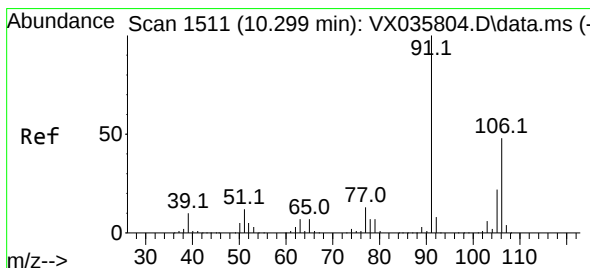
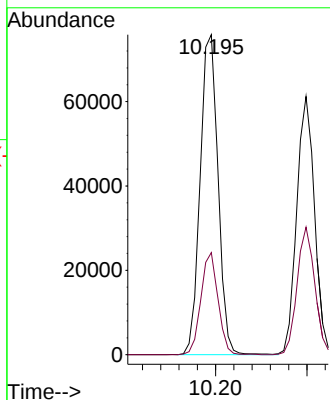
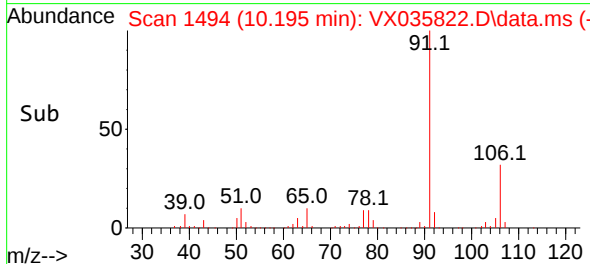
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL



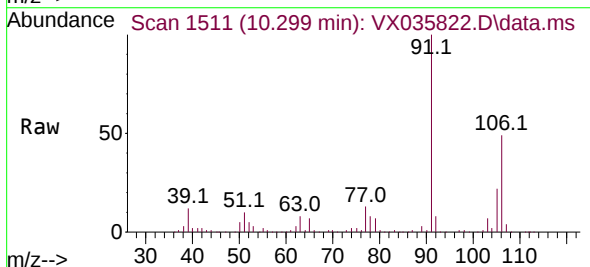
Tgt Ion: 91 Resp: 10294
Ion Ratio Lower Upper
91 100
106 31.9 24.4 36.6

Manual Integrations
APPROVED

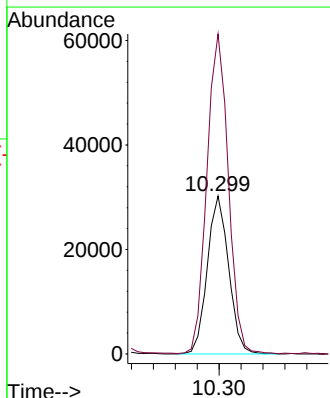
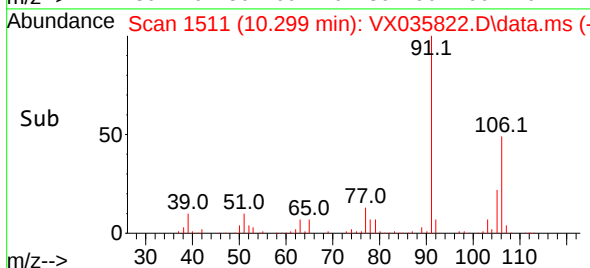
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

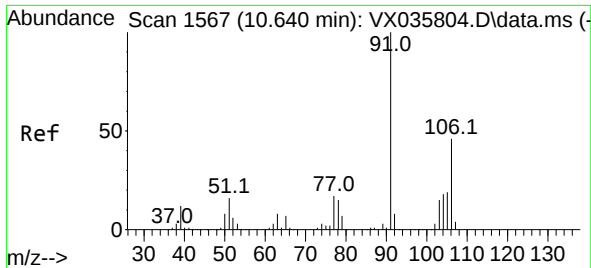


#67
m/p-Xylenes
Concen: 10.460 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25



Tgt Ion:106 Resp: 40873
Ion Ratio Lower Upper
106 100
91 203.9 167.4 251.2





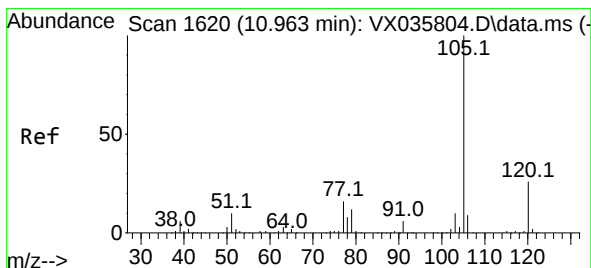
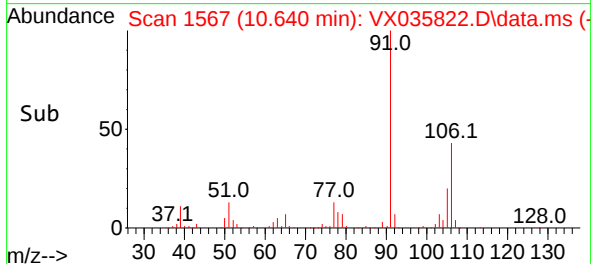
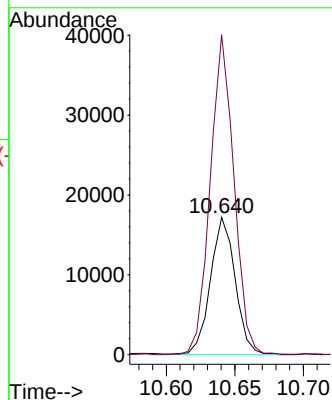
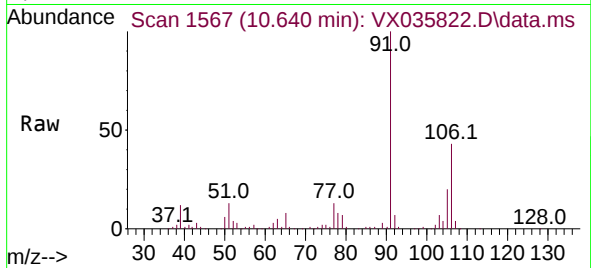
#68
o-Xylene
Concen: 5.523 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL

Tgt Ion:106 Resp: 21588
Ion Ratio Lower Upper
106 100
91 222.7 108.9 326.8

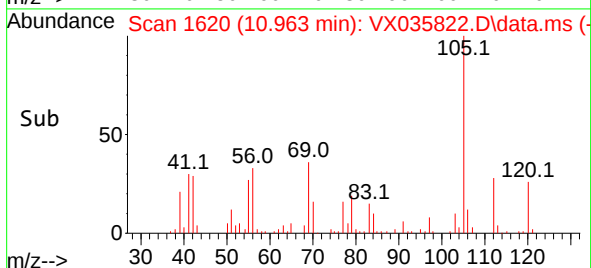
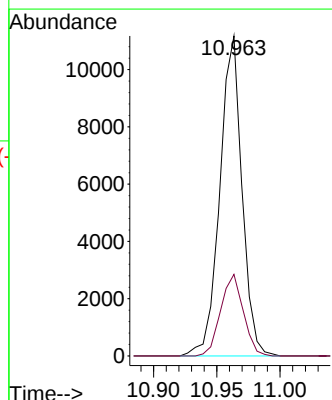
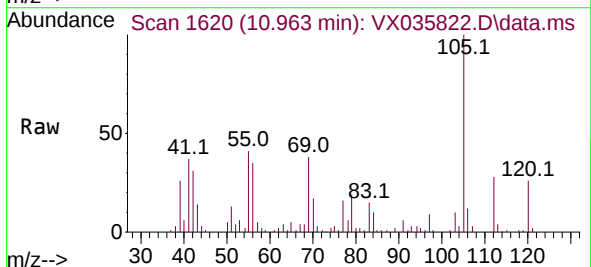
Manual Integrations
APPROVED

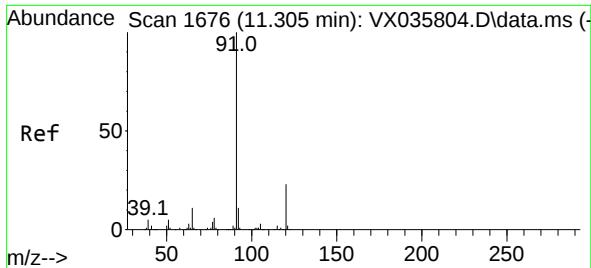
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#70
Isopropylbenzene
Concen: 1.362 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Tgt Ion:105 Resp: 13591
Ion Ratio Lower Upper
105 100
120 26.0 18.5 34.3





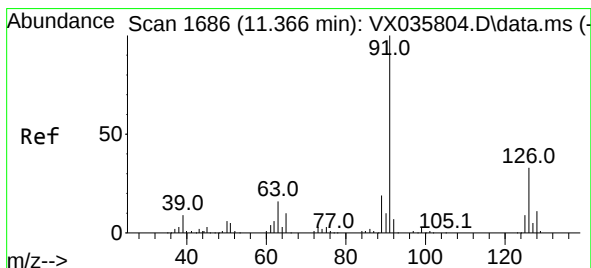
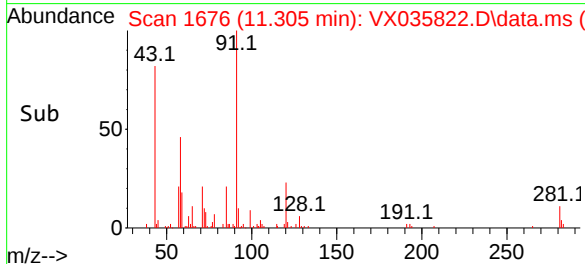
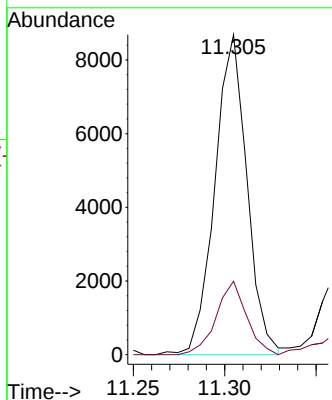
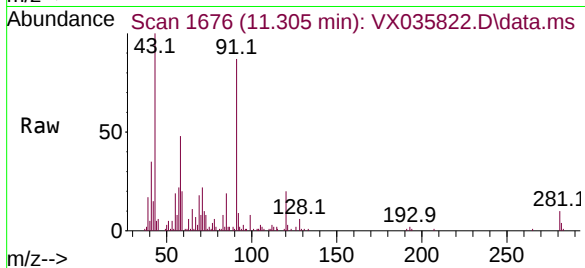
#74
n-propylbenzene
Concen: 0.888 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL

Tgt Ion: 91 Resp: 1056
Ion Ratio Lower Upper
91 100
120 21.9 0.0 44.8

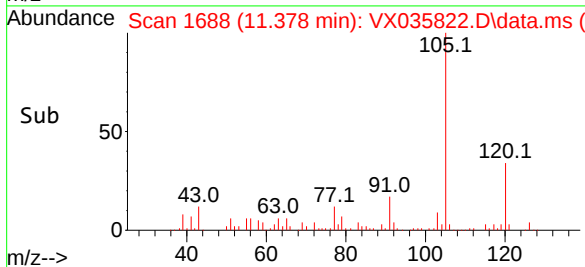
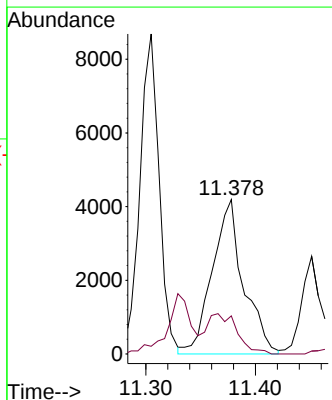
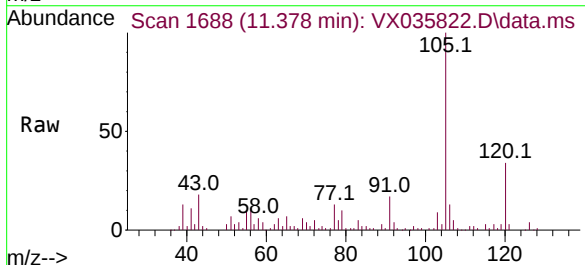
Manual Integrations
APPROVED

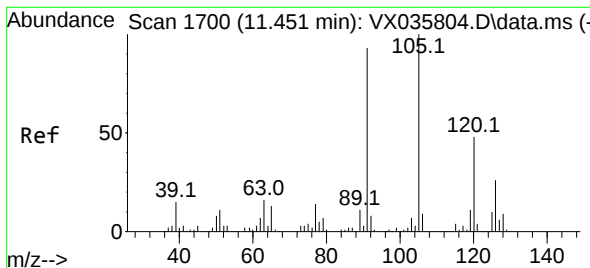
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#75
2-Chlorotoluene
Concen: 1.140 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.012 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

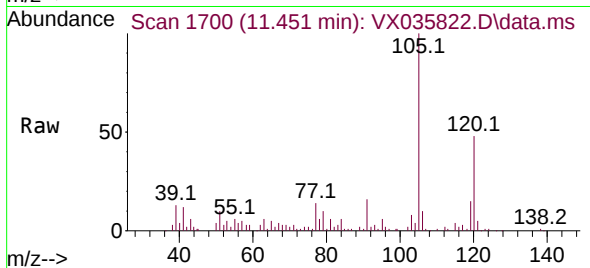
Tgt Ion: 91 Resp: 8325
Ion Ratio Lower Upper
91 100
126 7.1 0.0 66.4





#76
1,3,5-Trimethylbenzene
Concen: 2.536 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

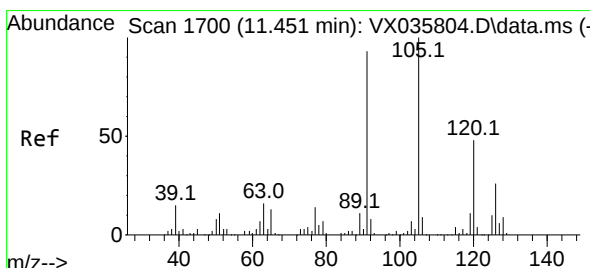
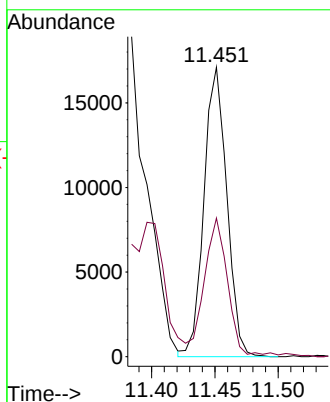
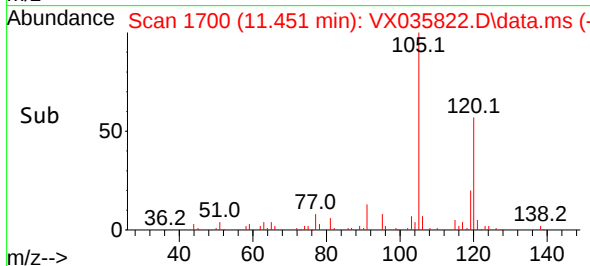
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL



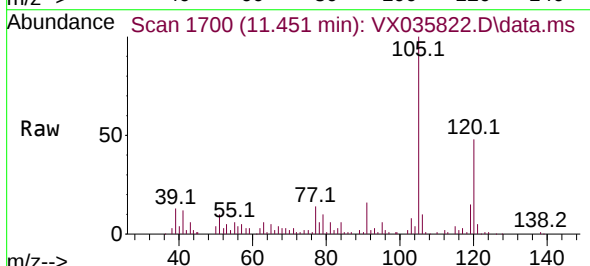
Tgt Ion:105 Resp: 2148
Ion Ratio Lower Upper
105 100
120 48.0 0.0 96.4

Manual Integrations
APPROVED

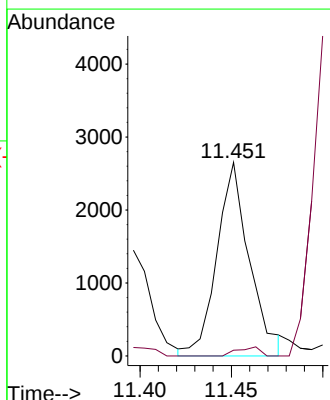
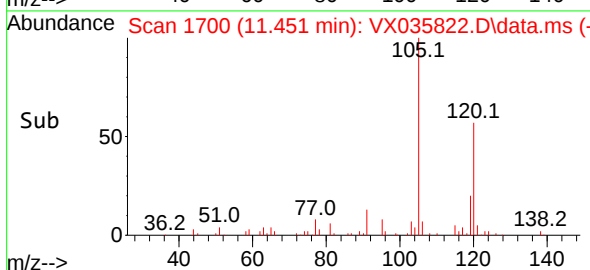
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

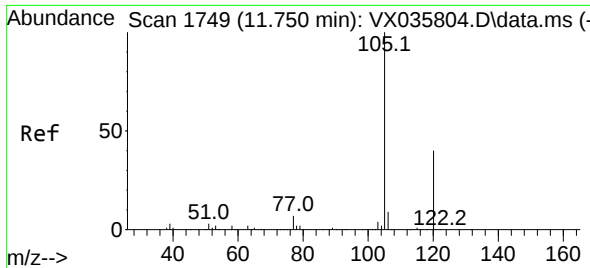


#78
4-Chlorotoluene
Concen: 0.394 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25



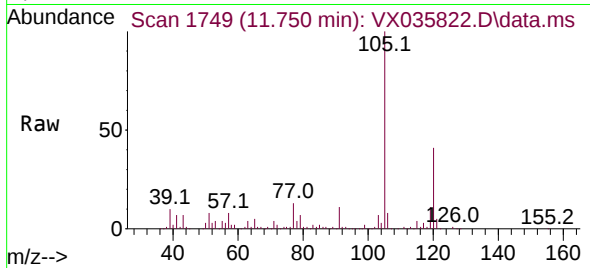
Tgt Ion: 91 Resp: 3275
Ion Ratio Lower Upper
91 100
126 3.2 0.0 56.8





#80
1,2,4-Trimethylbenzene
Concen: 8.871 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

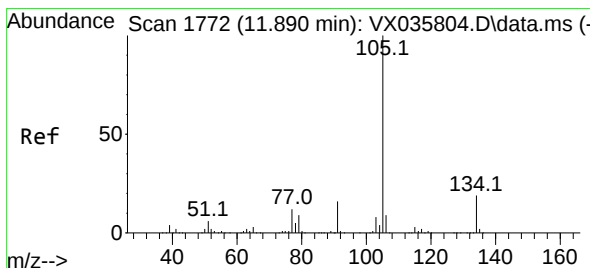
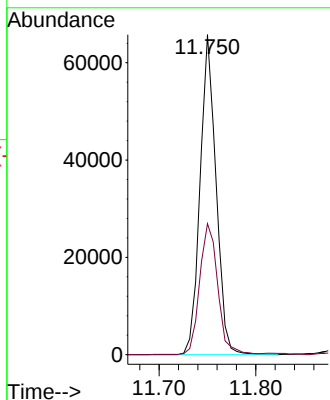
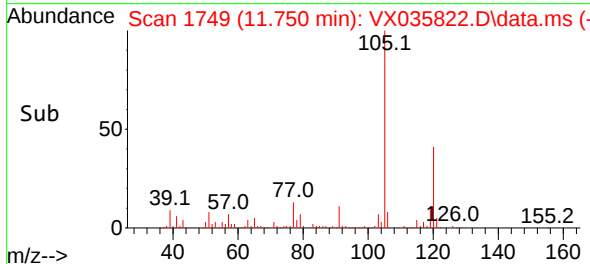
Instrument : MSVOA_X
ClientSampleId : SEMI-ANNUAL-CONDENSATEDL



Tgt Ion:105 Resp: 7553
Ion Ratio Lower Upper
105 100
120 46.1 0.0 90.4

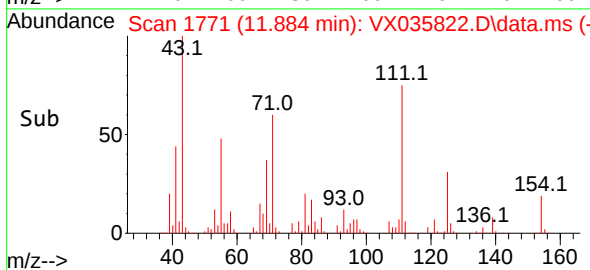
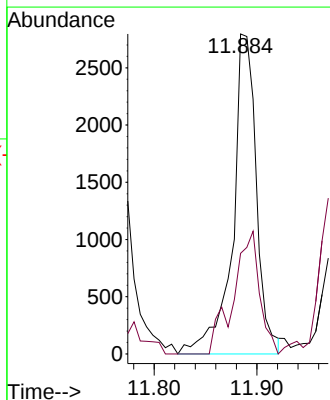
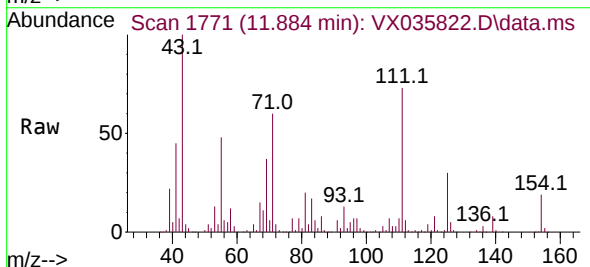
Manual Integrations
APPROVED

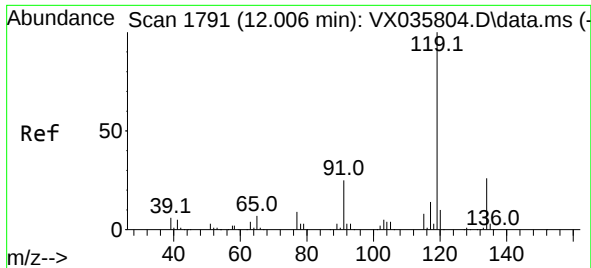
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#81
sec-Butylbenzene
Concen: 0.434 ug/l
RT: 11.884 min Scan# 1771
Delta R.T. -0.006 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

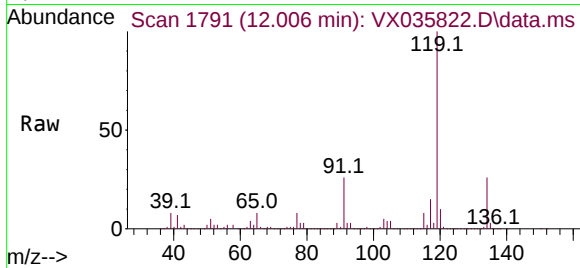
Tgt Ion:105 Resp: 4480
Ion Ratio Lower Upper
105 100
134 34.8 0.0 40.2





#82
p-Isopropyltoluene
Concen: 50.272 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

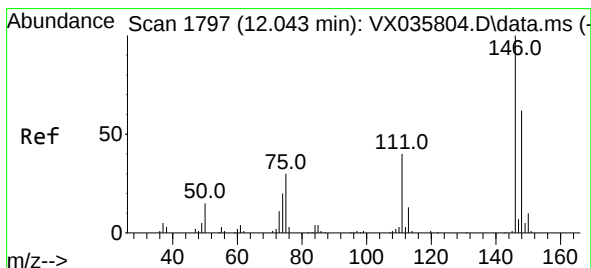
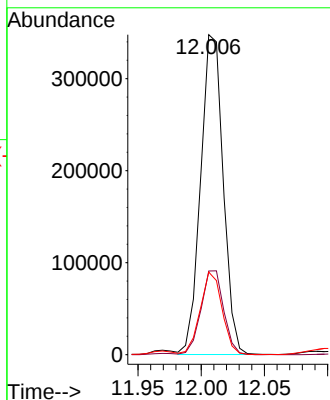
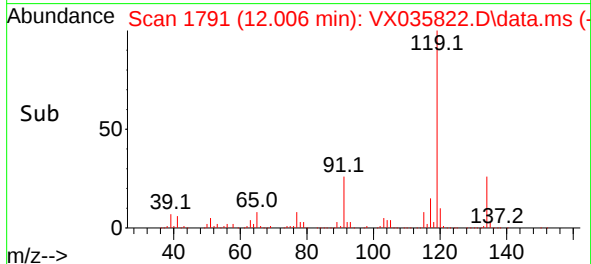
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL



Tgt Ion:119 Resp: 43191
Ion Ratio Lower Upper
119 100
134 26.4 0.0 52.2
91 24.8 0.0 51.0

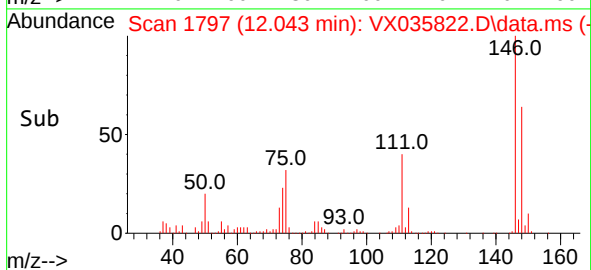
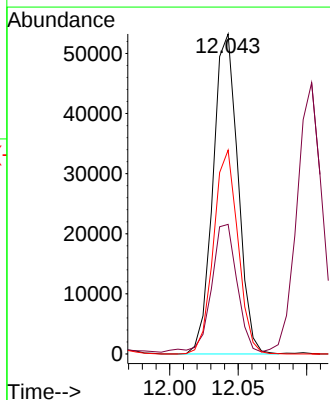
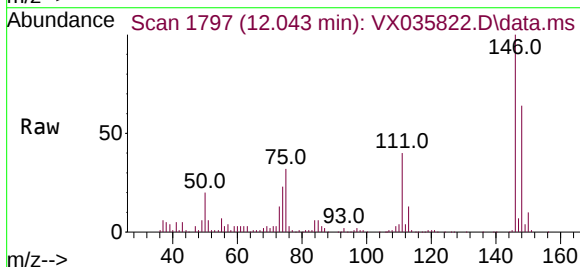
Manual Integrations
APPROVED

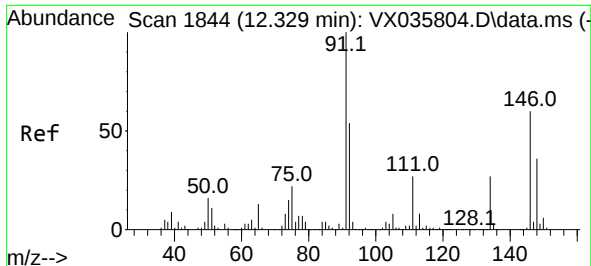
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#84
1,4-Dichlorobenzene
Concen: 14.643 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

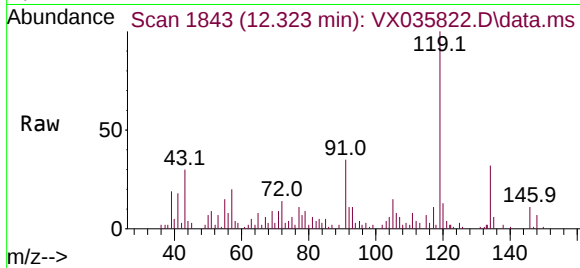
Tgt Ion:146 Resp: 67420
Ion Ratio Lower Upper
146 100
111 39.7 20.3 60.9
148 62.4 31.8 95.3





#85
n-Butylbenzene
Concen: 0.727 ug/l m
RT: 12.323 min Scan# 1843
Delta R.T. -0.006 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

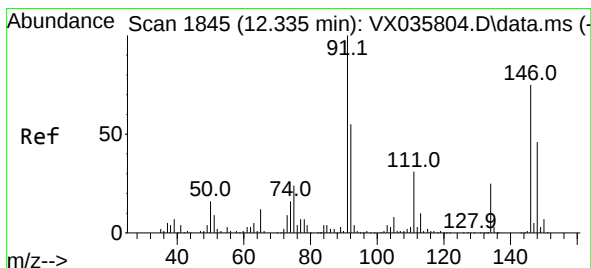
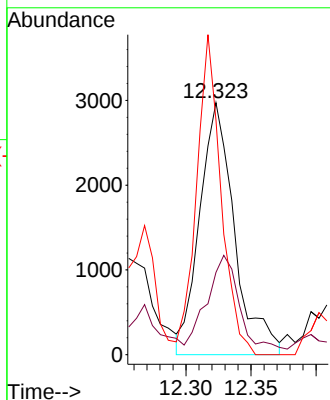
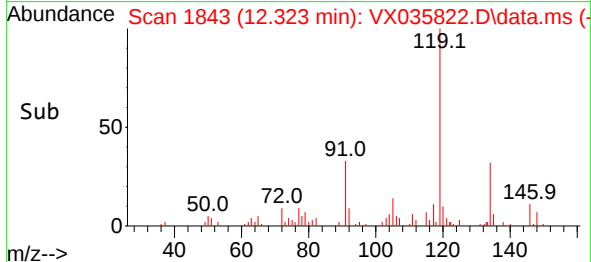
Instrument : MSVOA_X
ClientSampleId : SEMI-ANNUAL-CONDENSATEDL



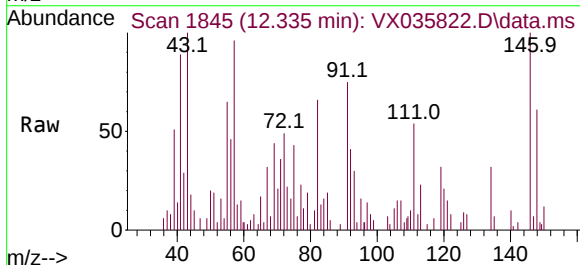
Tgt Ion: 91 Resp: 555
Ion Ratio Lower Upper
91 100
92 16.7 0.0 107.6
134 32.2 0.0 49.8

Manual Integrations
APPROVED

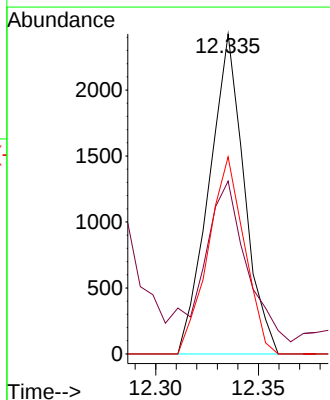
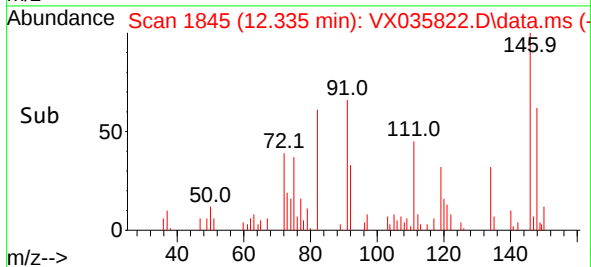
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

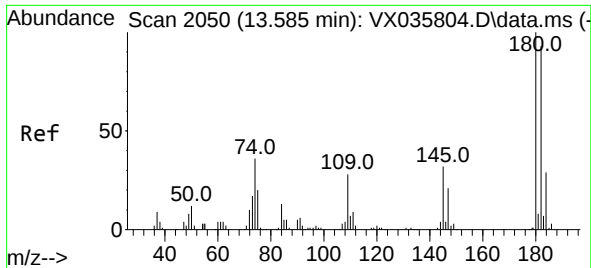


#87
1,2-Dichlorobenzene
Concen: 0.641 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25



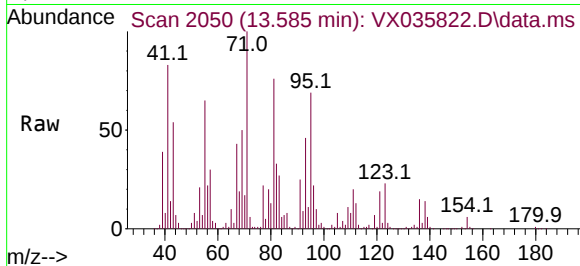
Tgt Ion:146 Resp: 2880
Ion Ratio Lower Upper
146 100
111 54.3 21.3 64.0
148 63.5 31.7 95.1





#89
1,2,4-Trichlorobenzene
Concen: 0.307 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

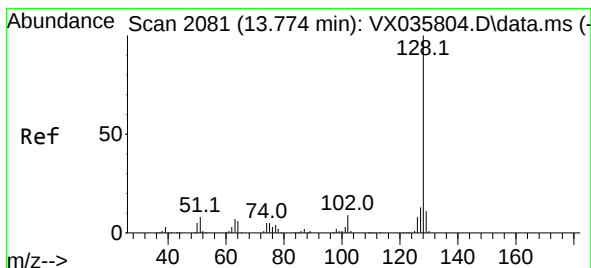
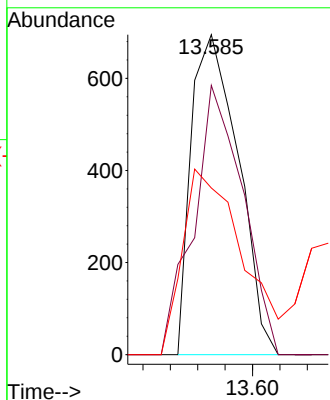
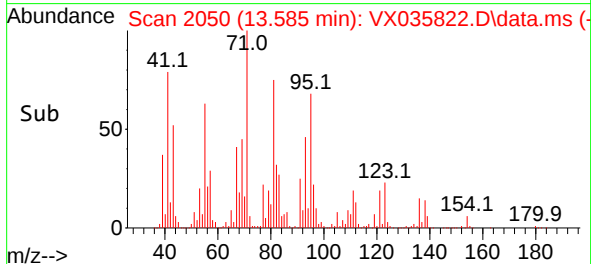
Instrument :
MSVOA_X
ClientSampleId :
SEMI-ANNUAL-CONDENSATEDL



Tgt Ion:180 Resp: 828
Ion Ratio Lower Upper
180 100
182 88.2 75.8 113.8
145 74.2 25.8 38.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#91
Naphthalene
Concen: 56.018 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX035822.D
Acq: 23 May 2023 18:25

Tgt Ion:128 Resp: 522151
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 11.1 8.8 13.2

