

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110123\
 Data File : VY016174.D
 Acq On : 01 Nov 2023 17:23
 Operator : SY/MD
 Sample : 05102-03
 Misc : 4.30g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 67S-SB02-2628

Manual Integrations
 APPROVED

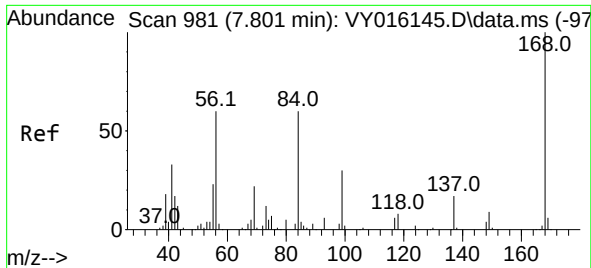
Reviewed By :Mahesh Dadoda 11/02/2023
 Supervised By :Semsettin Yesilyurt 11/02/2023

Quant Time: Nov 02 02:29:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

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

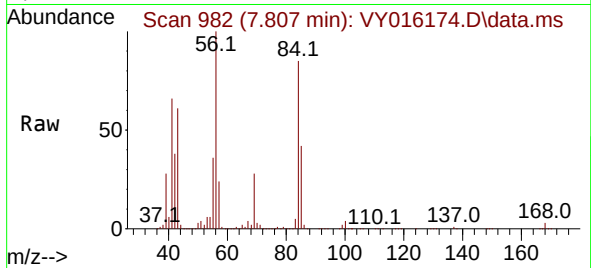
Internal Standards						
1) Pentafluorobenzene	7.807	168	118356	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.703	114	197980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.514	117	152940	50.000	ug/l	# 0.01
72) 1,4-Dichlorobenzene-d4	13.440	152	107997	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	67448	60.901	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.800%			
35) Dibromofluoromethane	7.734	113	56537	47.901	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.800%			
50) Toluene-d8	10.197	98	592312	126.572	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 253.140%#			
62) 4-Bromofluorobenzene	12.495	95	312670	195.395	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 390.800%#			
Target Compounds						Qvalue
4) Vinyl Chloride	2.253	62	5341	4.951	ug/l	97
8) Diethyl Ether	3.540	74	7266	13.460	ug/l	84
16) Acetone	3.954	43	122395	728.867	ug/l #	87
17) Carbon Disulfide	4.210	76	60856	26.028	ug/l	97
25) 2-Butanone	7.008	43	78981	258.490	ug/l #	76
27) cis-1,2-Dichloroethene	7.002	96	35588	27.721	ug/l	81
31) Cyclohexane	7.801	56	4657141	2735.505	ug/l #	94
39) Methylcyclohexane	9.203	83	6263620	3078.830	ug/l #	76
40) Benzene	8.179	78	14333492	2929.396	ug/l	93
52) Toluene	10.264	92	21691449	6841.364	ug/l #	1
64) Tetrachloroethene	10.740	164	24122	17.732	ug/l	96
65) Chlorobenzene	11.538	112	13659270	4495.310	ug/l	93
67) Ethyl Benzene	11.599	91	44099985m	8114.350	ug/l	
68) m/p-Xylenes	11.788	106	37787063m	17992.973	ug/l	
69) o-Xylene	12.062	106	17769943	8862.182	ug/l #	1
73) Isopropylbenzene	12.349	105	15281902	1886.396	ug/l	90
78) n-propylbenzene	12.684	91	24447779m	2552.580	ug/l	
80) 1,3,5-Trimethylbenzene	12.837	105	18278995	2785.040	ug/l	77
84) 1,2,4-Trimethylbenzene	13.129	105	28936383m	4455.612	ug/l	
85) sec-Butylbenzene	13.270	105	4758410	552.068	ug/l #	58
86) p-Isopropyltoluene	13.385	119	3098917	433.803	ug/l	99
88) 1,4-Dichlorobenzene	13.459	146	403757	112.604	ug/l #	77
89) n-Butylbenzene	13.709	91	4612993	702.788	ug/l #	76
91) 1,2-Dichlorobenzene	13.757	146	8722282	2782.661	ug/l	95
95) Naphthalene	15.245	128	1608220	427.892	ug/l	99

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



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

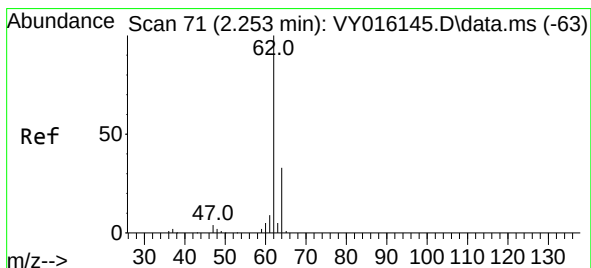
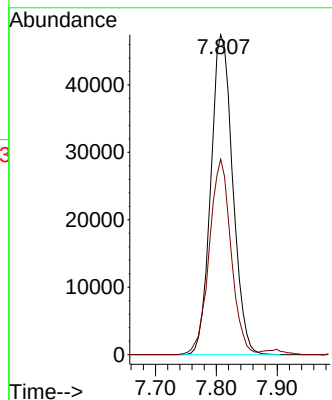
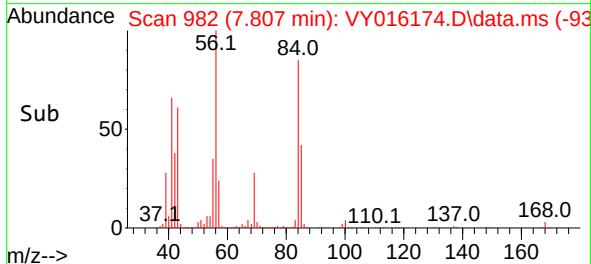
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628



Tgt Ion:168 Resp: 118350
Ion Ratio Lower Upper
168 100
99 61.0 43.4 65.0

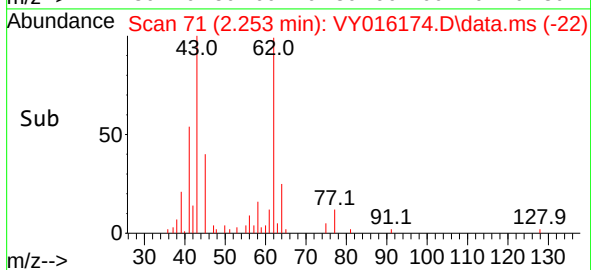
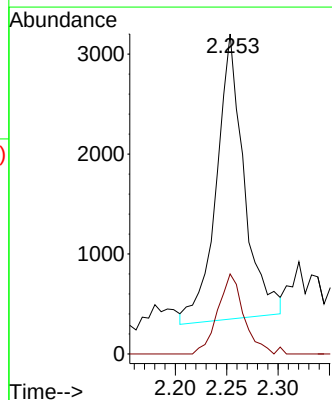
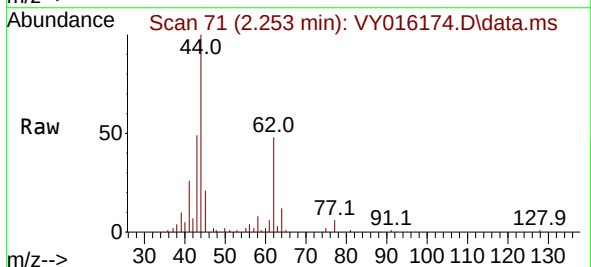
Manual Integrations
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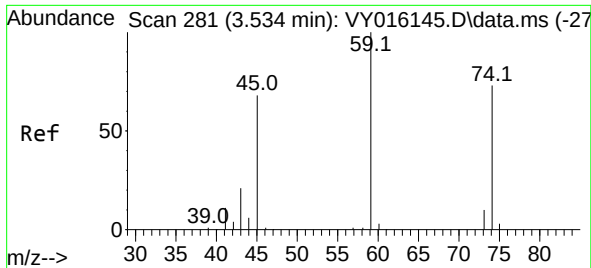
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#4
Vinyl Chloride
Concen: 4.951 ug/l
RT: 2.253 min Scan# 71
Delta R.T. -0.000 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Tgt Ion: 62 Resp: 5341
Ion Ratio Lower Upper
62 100
64 28.6 24.3 36.5





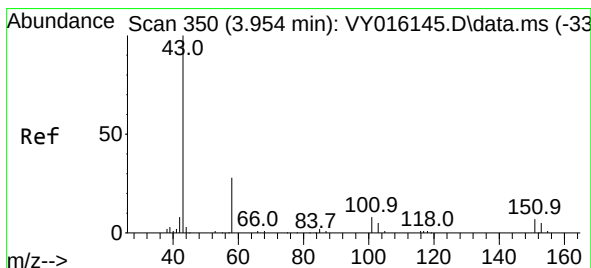
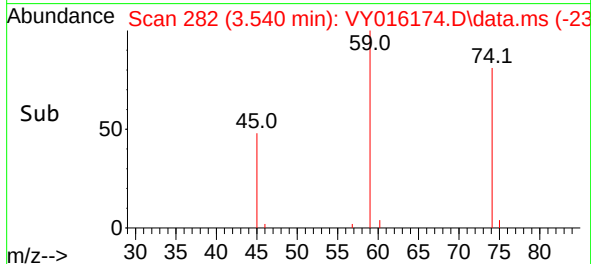
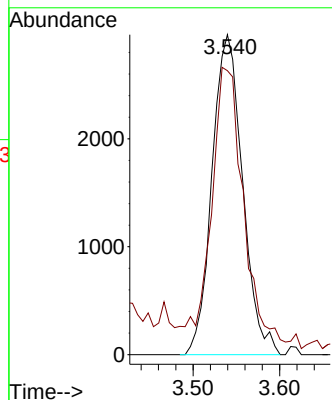
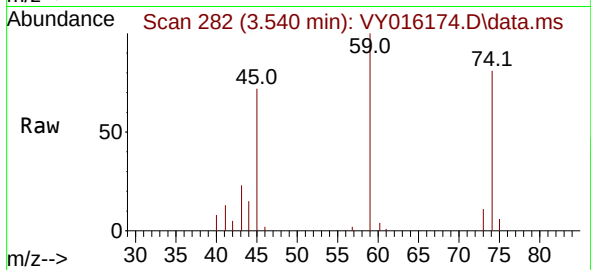
#8
Diethyl Ether
Concen: 13.460 ug/l
RT: 3.540 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628

Tgt Ion: 74 Resp: 7260
Ion Ratio Lower Upper
74 100
45 86.6 51.5 154.5

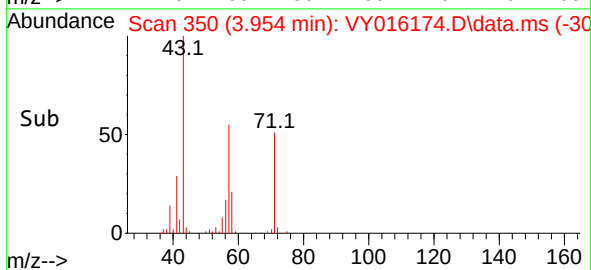
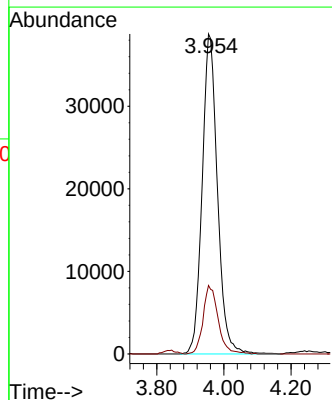
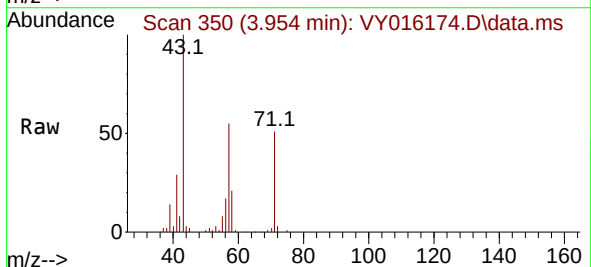
Manual Integrations
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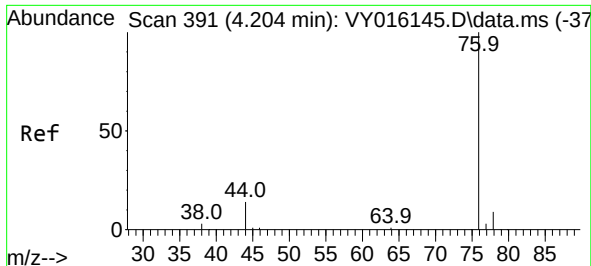
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#16
Acetone
Concen: 728.867 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Tgt Ion: 43 Resp: 122395
Ion Ratio Lower Upper
43 100
58 21.4 22.7 34.1#





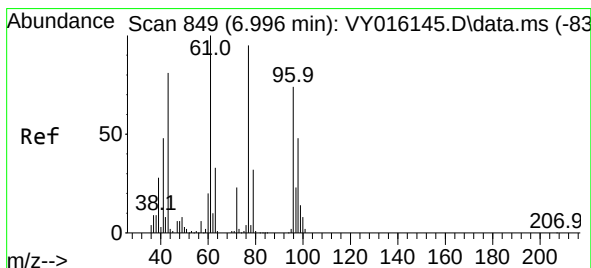
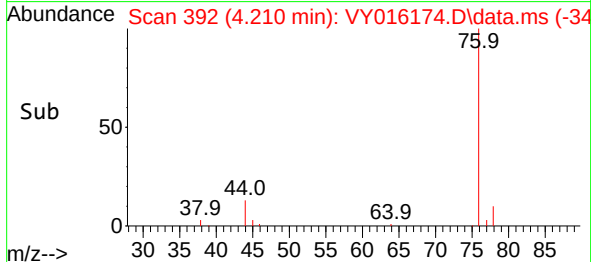
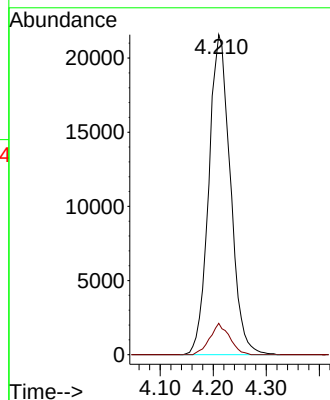
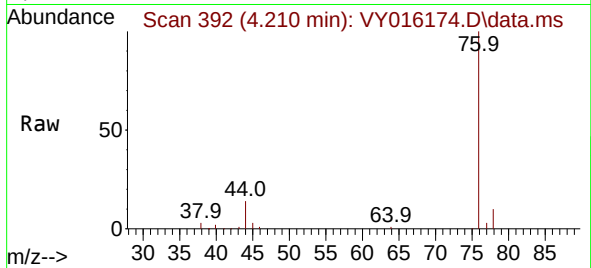
#17
Carbon Disulfide
Concen: 26.028 ug/l
RT: 4.210 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628

Tgt Ion: 76 Resp: 60850
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.4

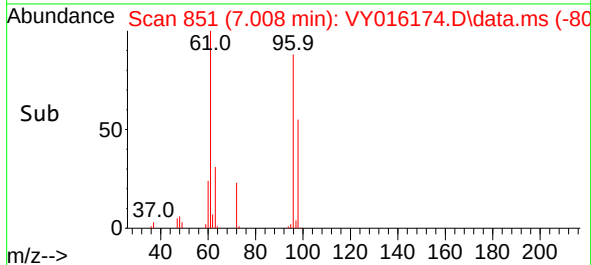
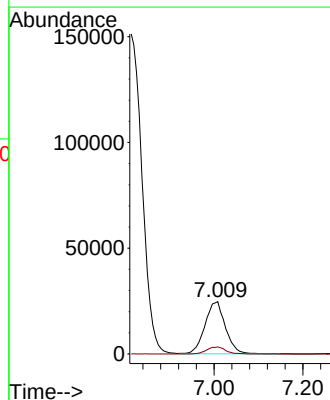
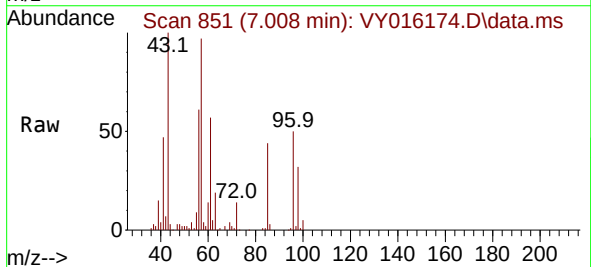
Manual Integrations
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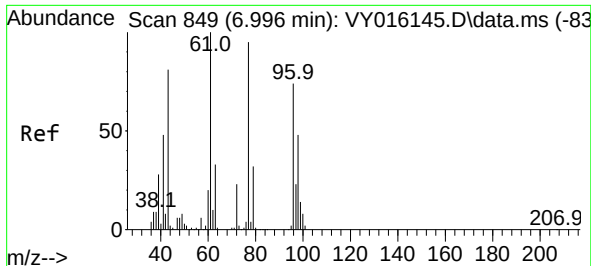
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#25
2-Butanone
Concen: 258.490 ug/l
RT: 7.008 min Scan# 851
Delta R.T. 0.012 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Tgt Ion: 43 Resp: 78981
Ion Ratio Lower Upper
43 100
72 13.7 20.5 30.7#





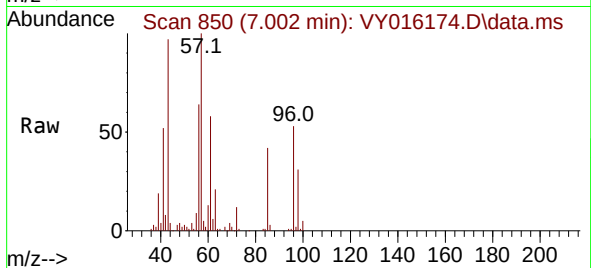
#27
 cis-1,2-Dichloroethene
 Concen: 27.721 ug/l
 RT: 7.002 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VY016174.D
 Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

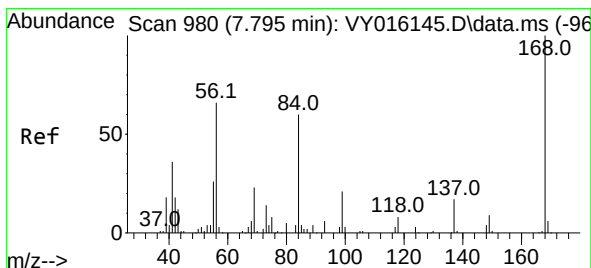
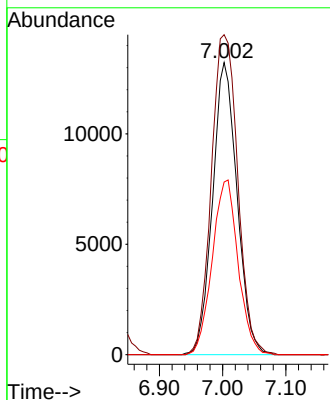
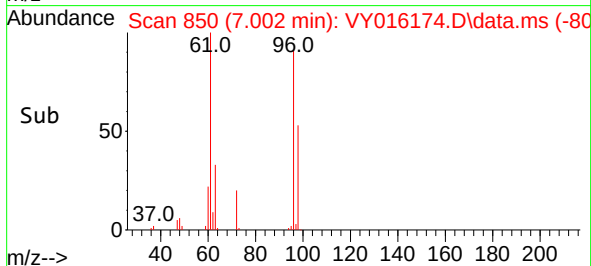


Tgt Ion: 96 Resp: 3558
 Ion Ratio Lower Upper
 96 100
 61 117.9 0.0 301.4
 98 63.0 0.0 130.4

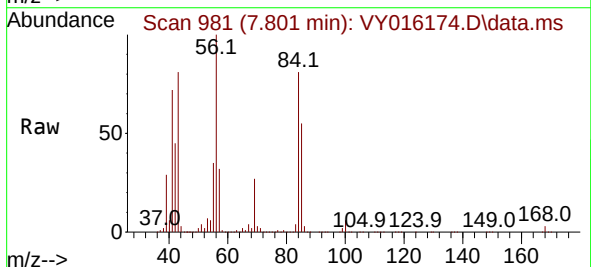
Manual Integrations

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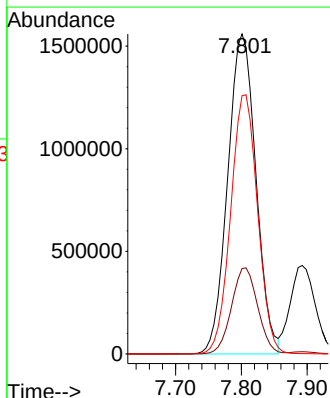
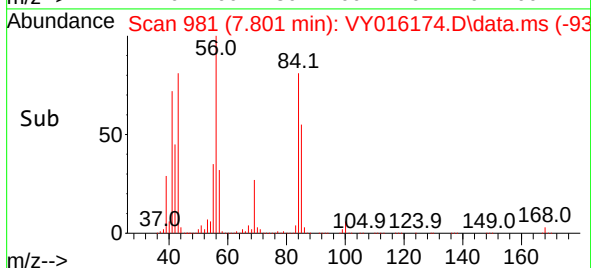
Reviewed By :Mahesh Dadoda 11/02/2023
 Supervised By :Semsettin Yesilyurt 11/02/2023

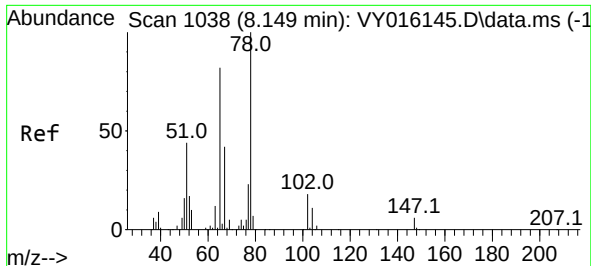


#31
 Cyclohexane
 Concen: 2735.505 ug/l
 RT: 7.801 min Scan# 981
 Delta R.T. 0.006 min
 Lab File: VY016174.D
 Acq: 01 Nov 2023 17:23



Tgt Ion: 56 Resp: 4657141
 Ion Ratio Lower Upper
 56 100
 69 26.6 27.8 41.6#
 84 80.7 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 60.901 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. 0.012 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

Tgt Ion: 65 Resp: 67448

Ion Ratio Lower Upper

65 100

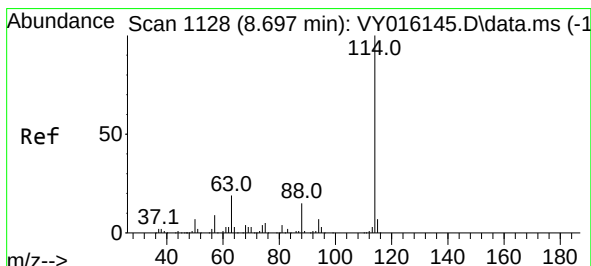
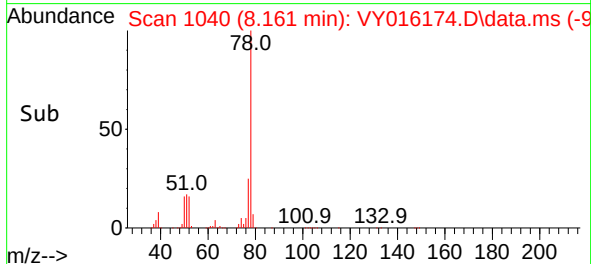
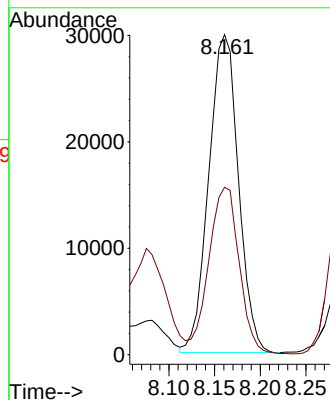
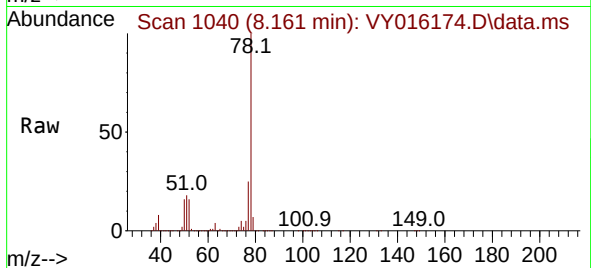
67 53.8 0.0 101.8

Manual Integrations

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Supervised By :Semsettin Yesilyurt 11/02/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

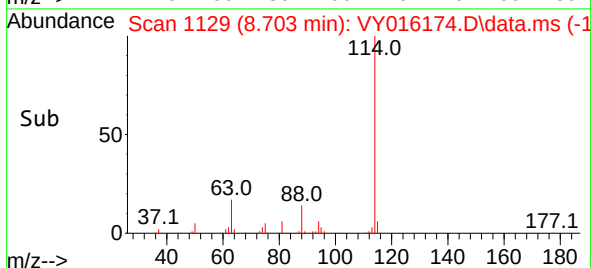
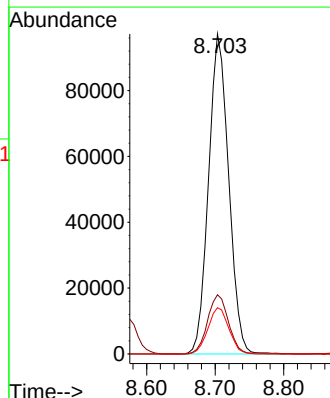
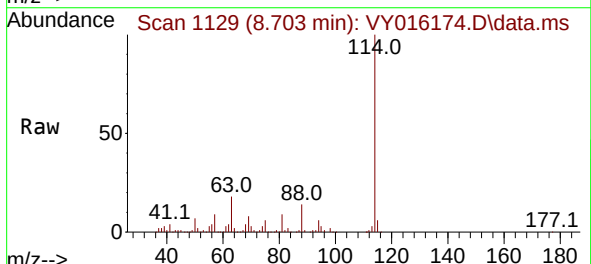
Tgt Ion:114 Resp: 197980

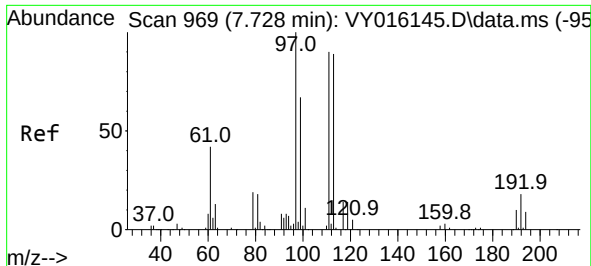
Ion Ratio Lower Upper

114 100

63 18.5 0.0 42.4

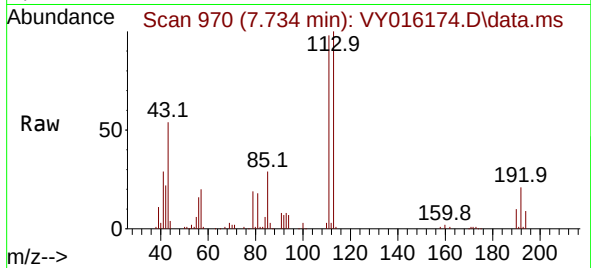
88 14.4 0.0 30.6





#35
Dibromofluoromethane
Concen: 47.901 ug/l
RT: 7.734 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

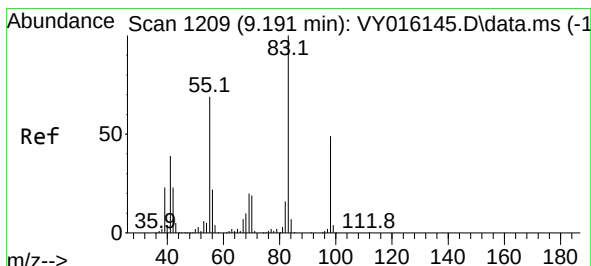
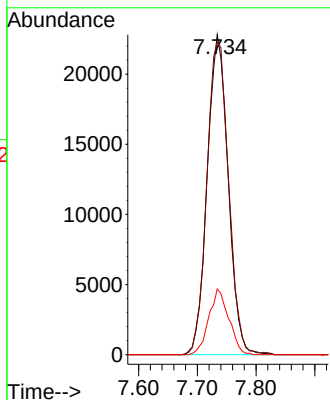
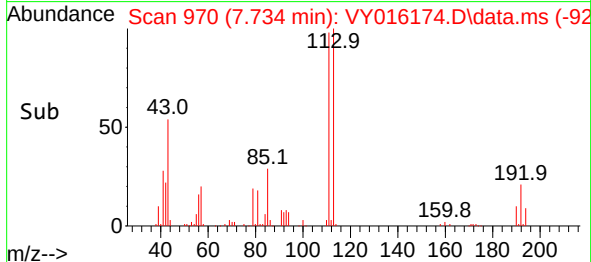
Instrument :
MSVOA_Y
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67S-SB02-2628



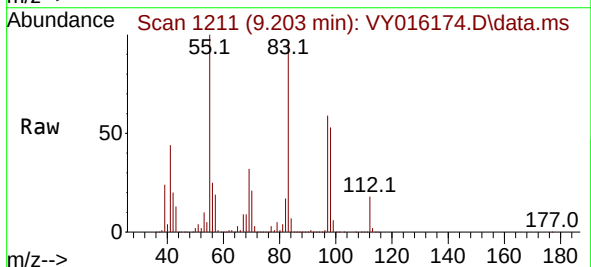
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Ion Ratio Lower Upper
113 100
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192 19.6 16.9 25.3

Manual Integrations
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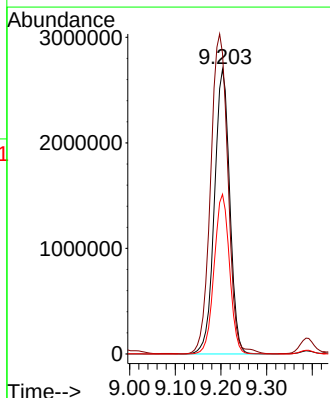
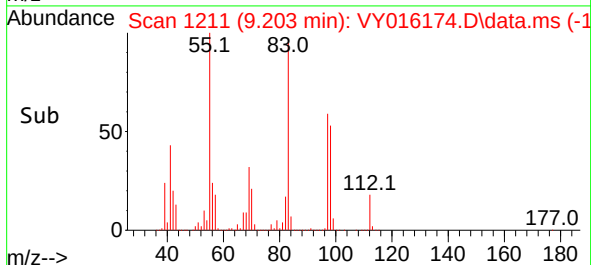
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023

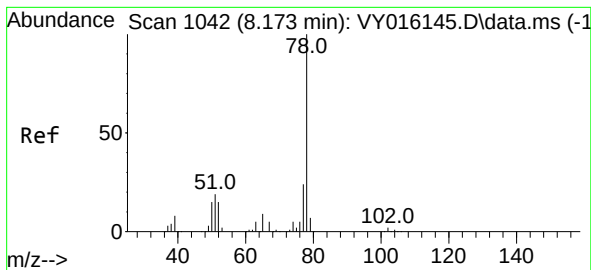


#39
Methylcyclohexane
Concen: 3078.830 ug/l
RT: 9.203 min Scan# 1211
Delta R.T. 0.012 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23



Tgt Ion: 83 Resp: 6263620
Ion Ratio Lower Upper
83 100
55 105.5 63.0 94.4#
98 56.1 37.4 56.2





#40

Benzene

Concen: 2929.396 ug/l

RT: 8.179 min Scan# 1042

Delta R.T. 0.006 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

Tgt Ion: 78 Resp:1433349

Ion Ratio Lower Upper

78 100

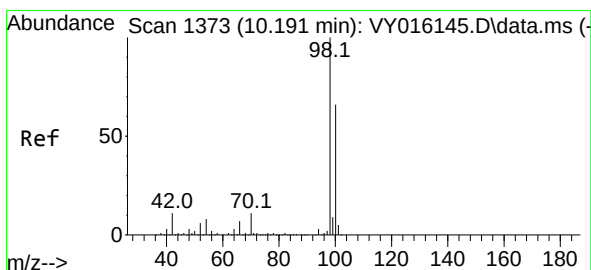
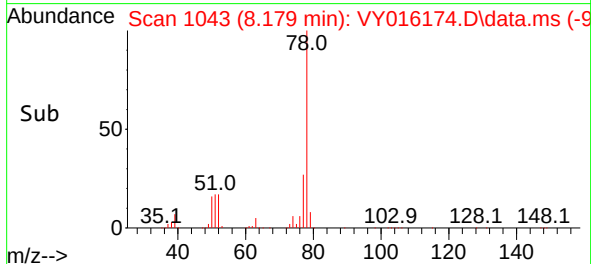
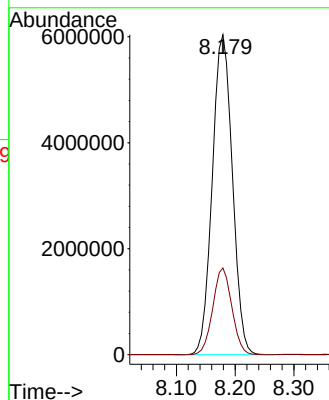
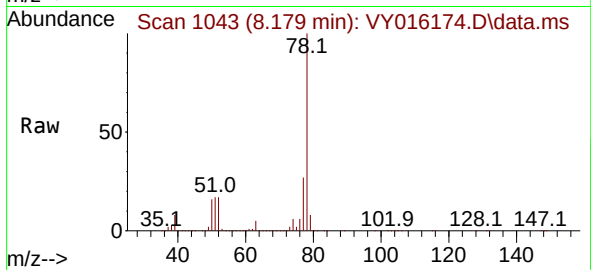
77 27.1 19.0 28.6

Manual Integrations

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Supervised By :Semsettin Yesilyurt 11/02/2023



#50

Toluene-d8

Concen: 126.572 ug/l

RT: 10.197 min Scan# 1374

Delta R.T. 0.006 min

Lab File: VY016174.D

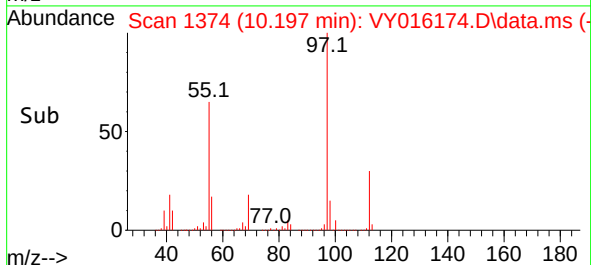
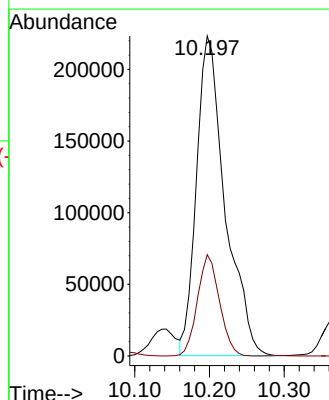
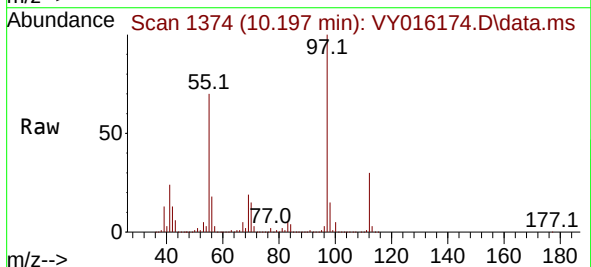
Acq: 01 Nov 2023 17:23

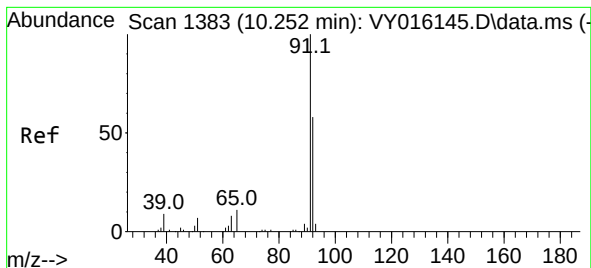
Tgt Ion: 98 Resp: 592312

Ion Ratio Lower Upper

98 100

100 24.4 50.1 75.1#





#52

Toluene

Concen: 6841.364 ug/l

RT: 10.264 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

Tgt Ion: 92 Resp: 21691449

Ion Ratio Lower Upper

92 100

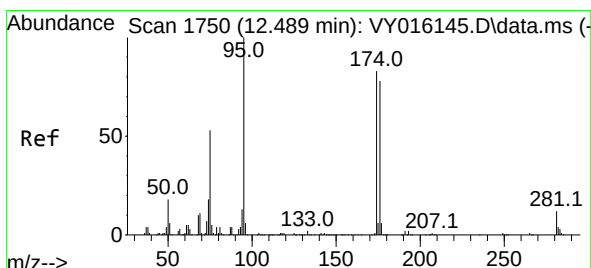
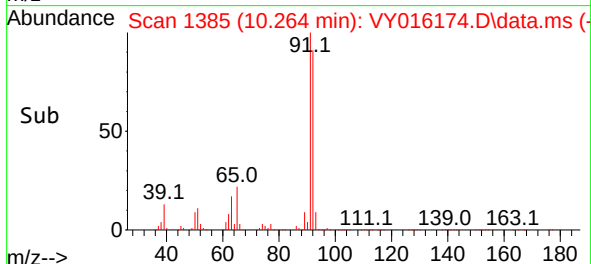
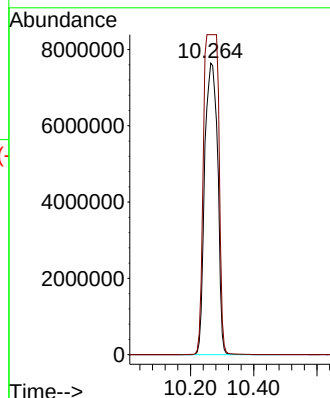
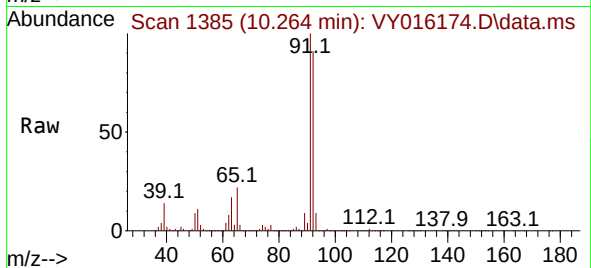
91 0.0 143.8 215.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/02/2023

Supervised By :Semsettin Yesilyurt 11/02/2023



#62

4-Bromofluorobenzene

Concen: 195.395 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. 0.006 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

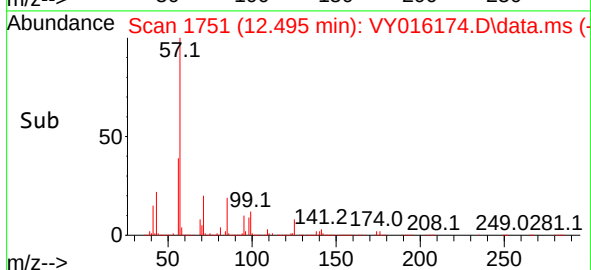
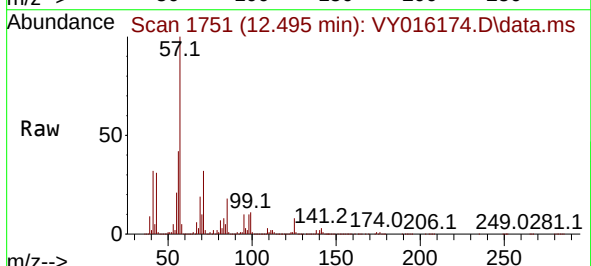
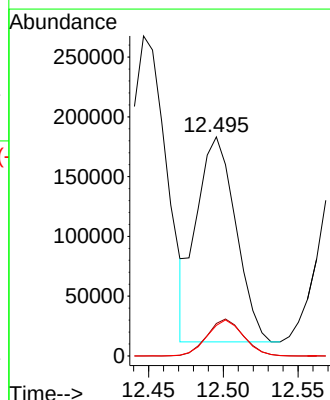
Tgt Ion: 95 Resp: 312670

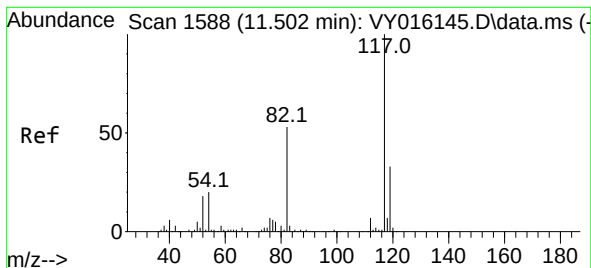
Ion Ratio Lower Upper

95 100

174 16.7 0.0 178.2

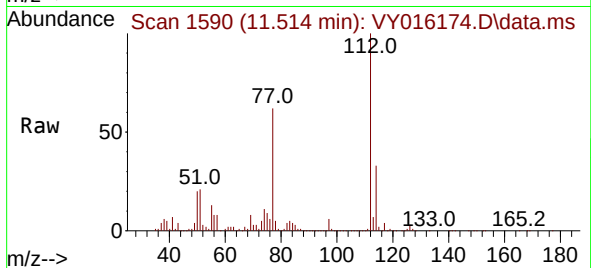
176 16.3 0.0 173.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.514 min Scan# 11590
Delta R.T. 0.012 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

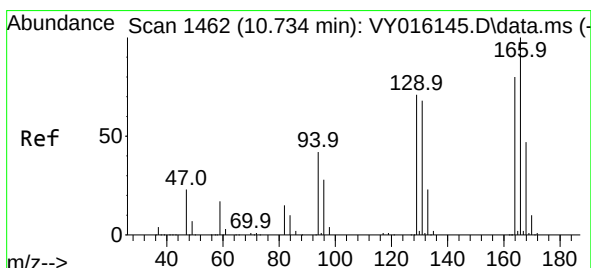
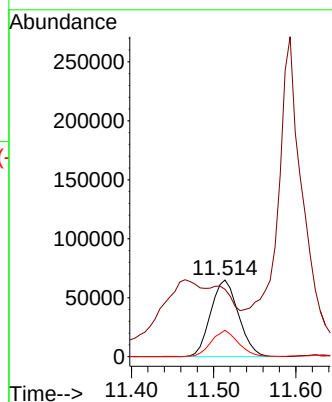
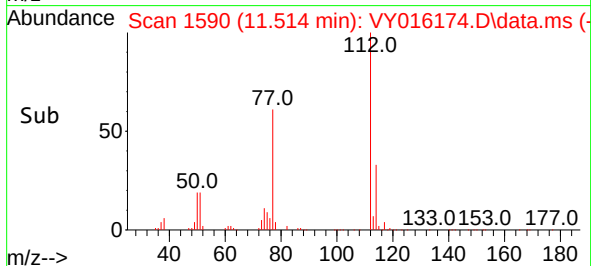
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628



Tgt Ion:117 Resp: 152940
Ion Ratio Lower Upper
117 100
82 0.0 43.4 65.0
119 34.2 26.3 39.5

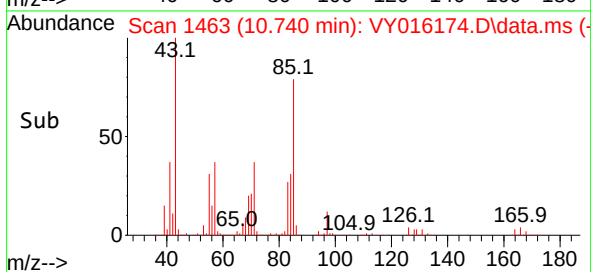
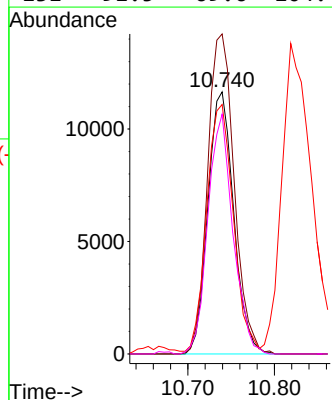
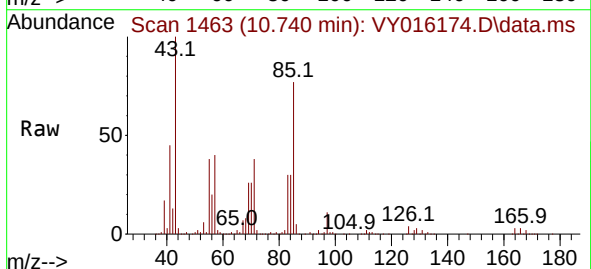
Manual Integrations
APPROVED

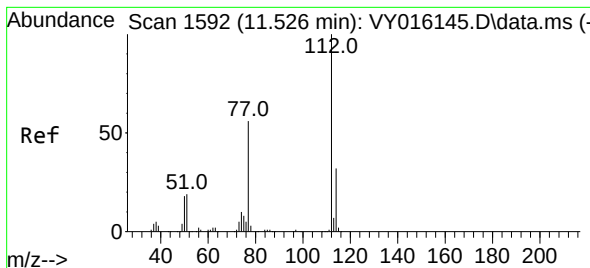
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#64
Tetrachloroethene
Concen: 17.732 ug/l
RT: 10.740 min Scan# 1463
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

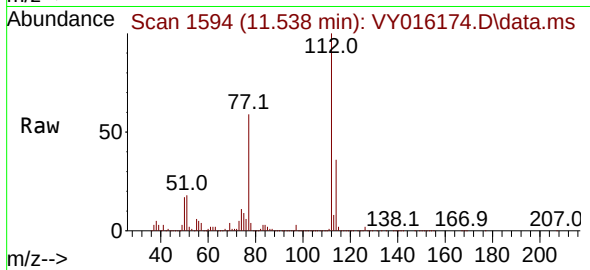
Tgt Ion:164 Resp: 24122
Ion Ratio Lower Upper
164 100
166 122.1 103.0 154.6
129 94.2 77.2 115.8
131 91.5 69.6 104.4





#65
Chlorobenzene
Concen: 4495.310 ug/l
RT: 11.538 min Scan# 11538
Delta R.T. 0.012 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

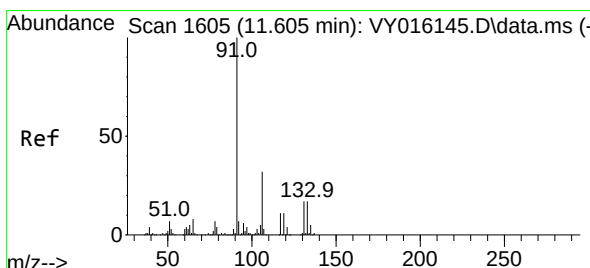
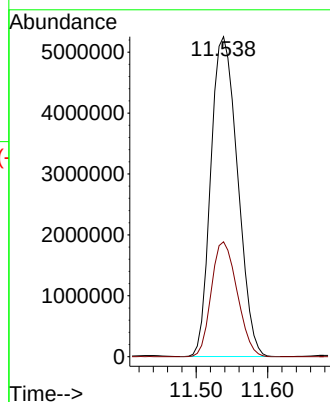
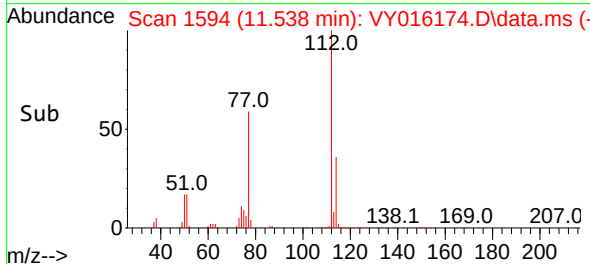
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628



Tgt Ion:112 Resp:13659270
Ion Ratio Lower Upper
112 100
114 35.9 25.5 38.3

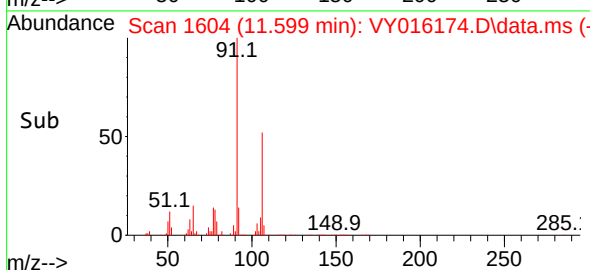
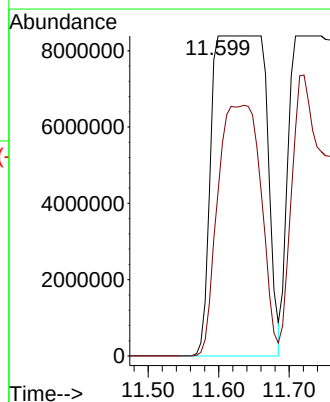
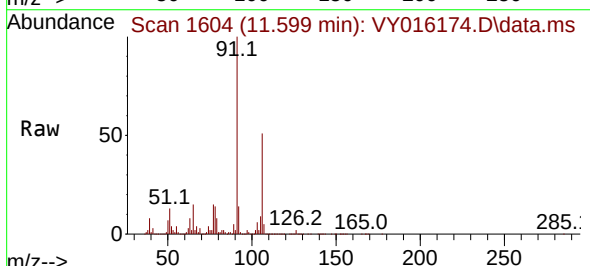
Manual Integrations
APPROVED

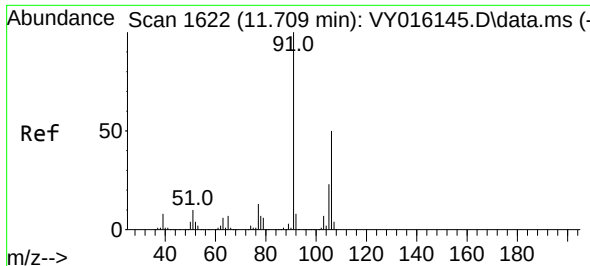
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#67
Ethyl Benzene
Concen: 8114.350 ug/l m
RT: 11.599 min Scan# 1604
Delta R.T. -0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

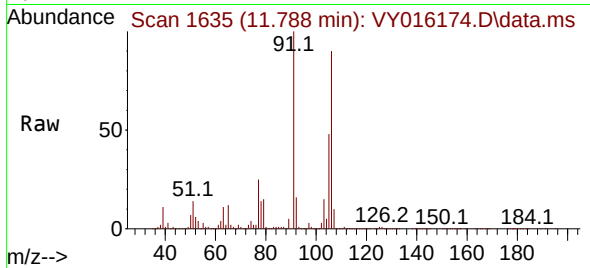
Tgt Ion: 91 Resp:44099985
Ion Ratio Lower Upper
91 100
106 51.4 24.6 36.8#





#68
m/p-Xylenes
Concen: 17992.973 ug/l m
RT: 11.788 min Scan# 1635
Delta R.T. 0.079 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

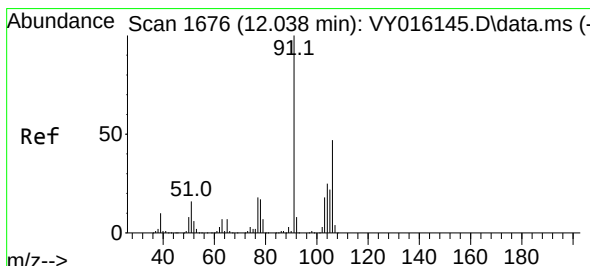
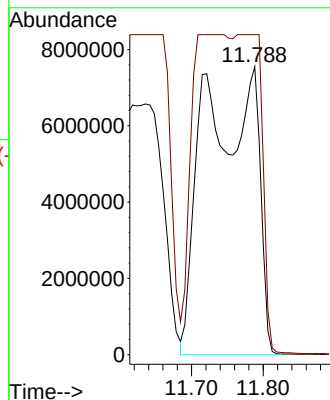
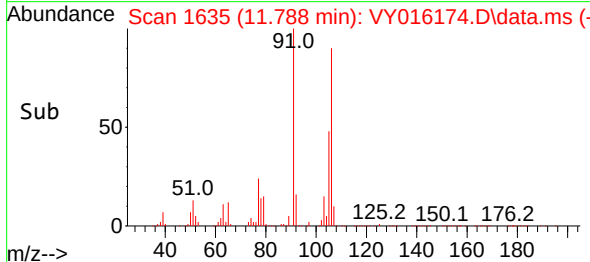
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628



Tgt Ion:106 Resp:3778706
Ion Ratio Lower Upper
106 100
91 9.1 166.1 249.1

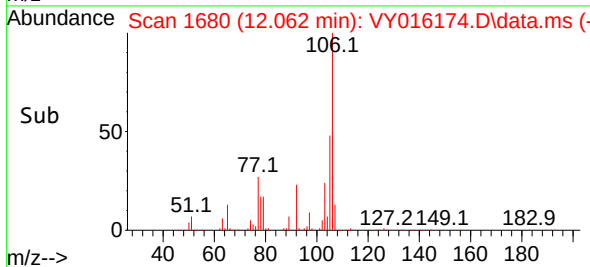
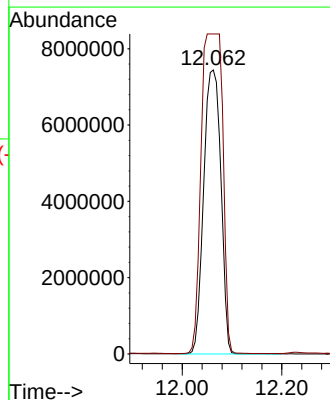
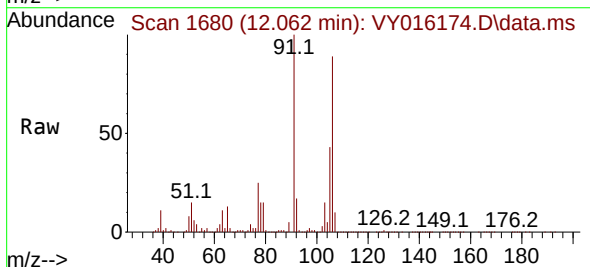
Manual Integrations
APPROVED

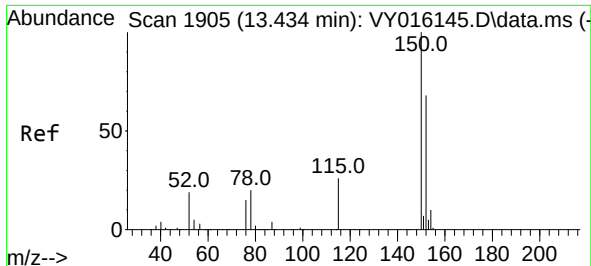
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#69
o-Xylene
Concen: 8862.182 ug/l
RT: 12.062 min Scan# 1680
Delta R.T. 0.024 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

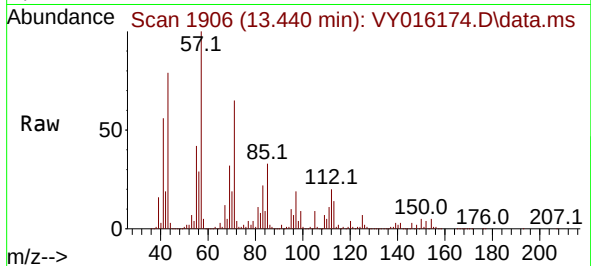
Tgt Ion:106 Resp:17769943
Ion Ratio Lower Upper
106 100
91 0.0 108.1 324.3





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.440 min Scan# 1905
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

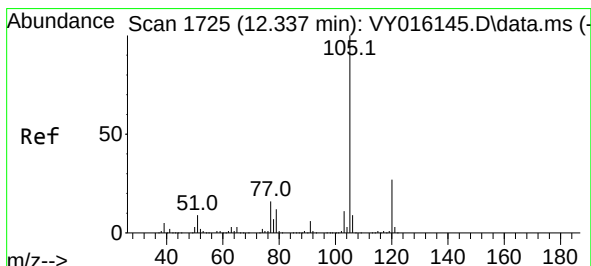
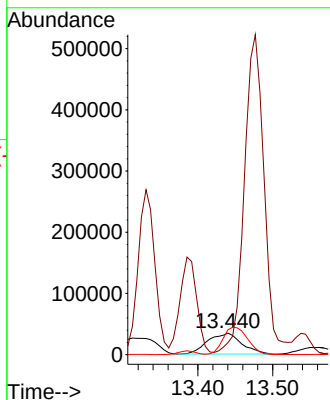
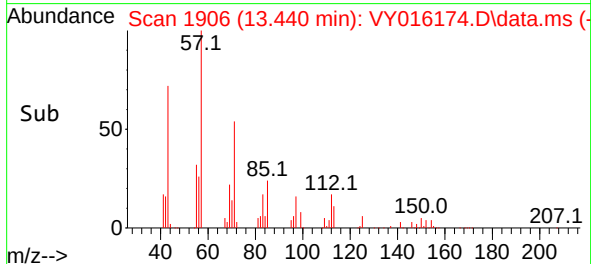
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628



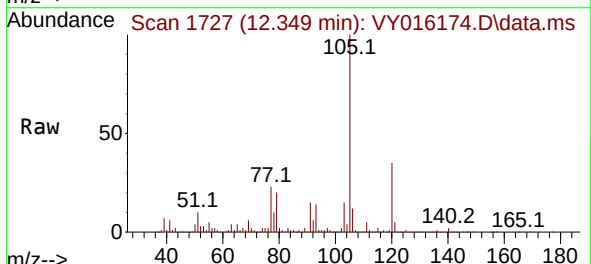
Tgt Ion:152 Resp: 107997
Ion Ratio Lower Upper
152 100
115 0.0 28.8 86.5
150 94.2 0.0 348.8

Manual Integrations
APPROVED

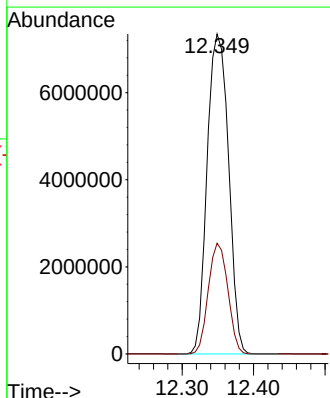
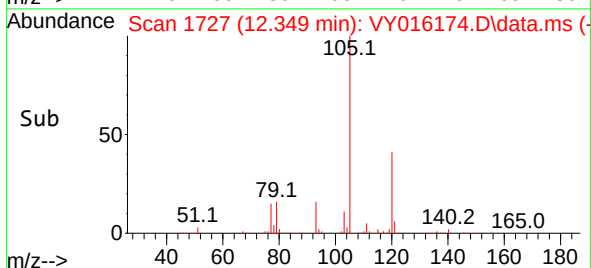
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023

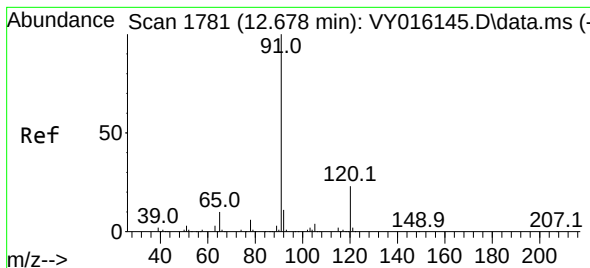


#73
Isopropylbenzene
Concen: 1886.396 ug/l
RT: 12.349 min Scan# 1727
Delta R.T. 0.012 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23



Tgt Ion:105 Resp:15281902
Ion Ratio Lower Upper
105 100
120 31.5 13.3 39.9





#78

n-propylbenzene

Concen: 2552.580 ug/l m

RT: 12.684 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

Tgt Ion: 91 Resp:24447779

Ion Ratio Lower Upper

91 100

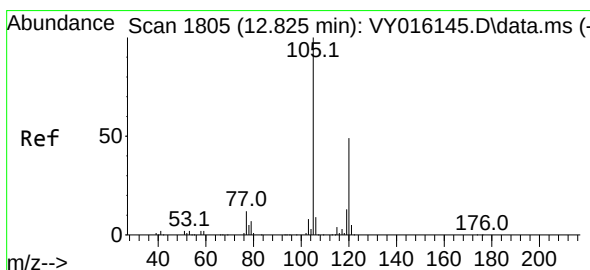
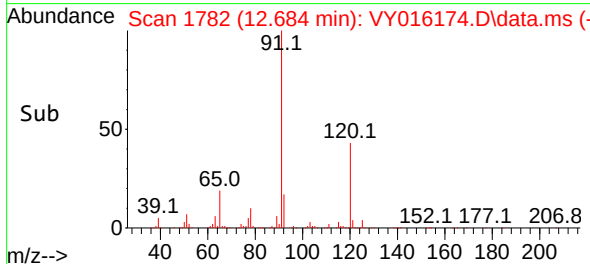
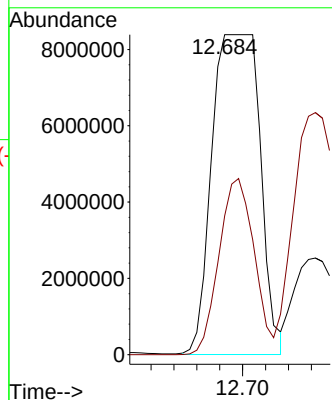
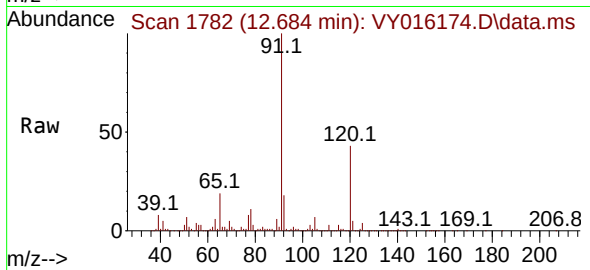
120 82.1 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/02/2023

Supervised By :Semsettin Yesilyurt 11/02/2023



#80

1,3,5-Trimethylbenzene

Concen: 2785.040 ug/l

RT: 12.837 min Scan# 1807

Delta R.T. 0.012 min

Lab File: VY016174.D

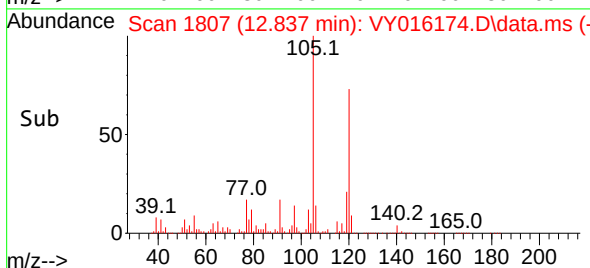
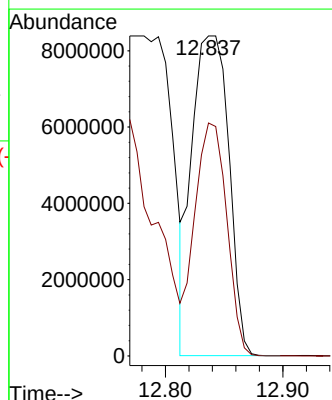
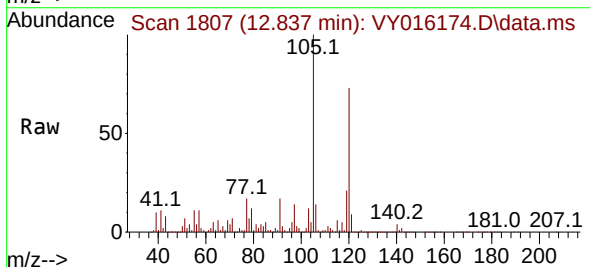
Acq: 01 Nov 2023 17:23

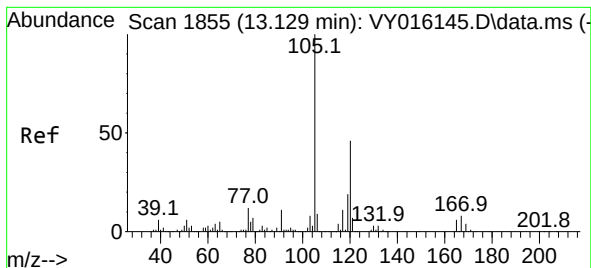
Tgt Ion:105 Resp:18278995

Ion Ratio Lower Upper

105 100

120 63.4 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 4455.612 ug/l m

RT: 13.129 min Scan# 1855

Delta R.T. -0.000 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

Tgt Ion:105 Resp:2893638

Ion Ratio Lower Upper

105 100

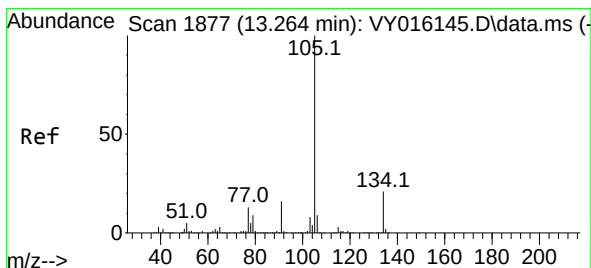
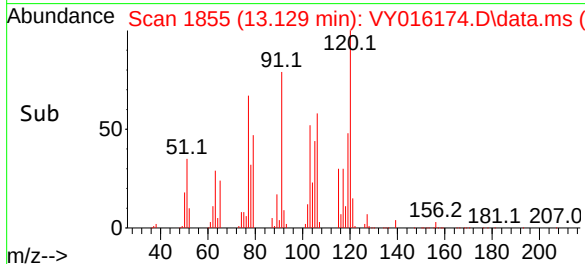
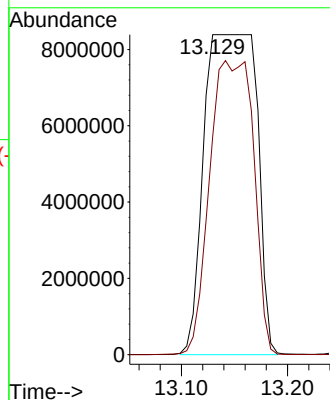
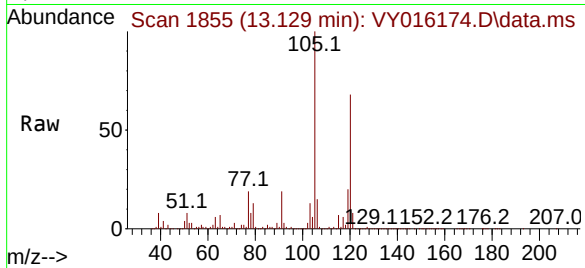
120 22.5 22.2 66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/02/2023

Supervised By :Semsettin Yesilyurt 11/02/2023



#85

sec-Butylbenzene

Concen: 552.068 ug/l

RT: 13.270 min Scan# 1878

Delta R.T. 0.006 min

Lab File: VY016174.D

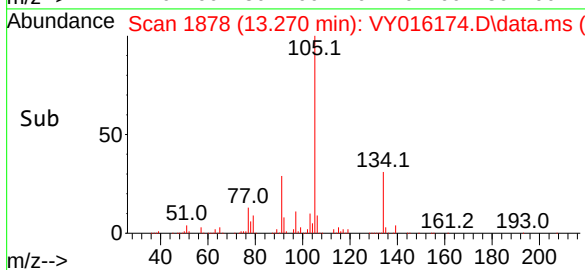
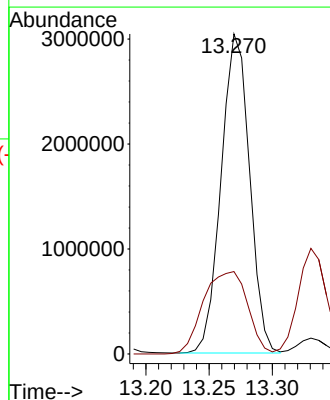
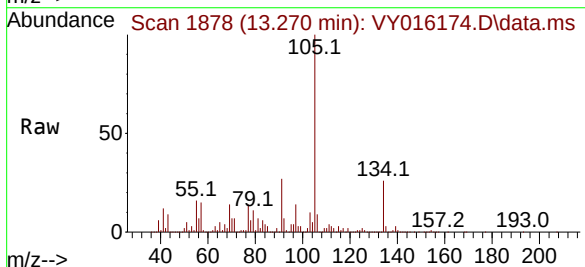
Acq: 01 Nov 2023 17:23

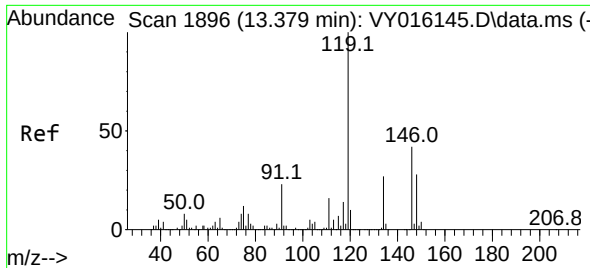
Tgt Ion:105 Resp: 4758410

Ion Ratio Lower Upper

105 100

134 40.0 10.2 30.6#





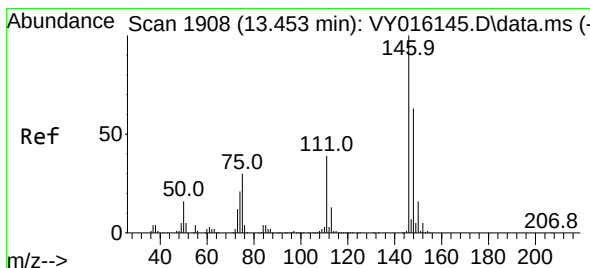
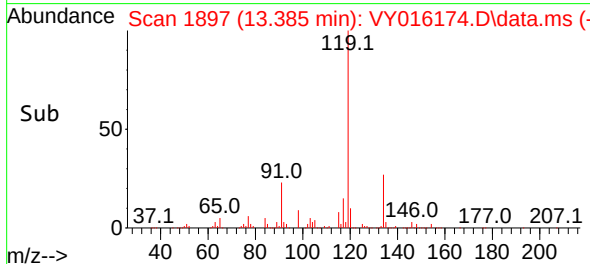
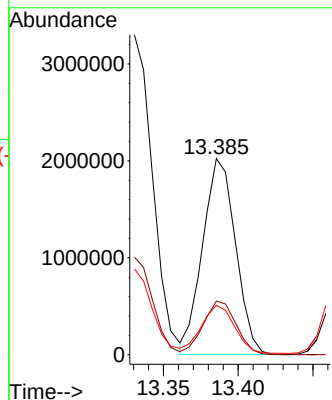
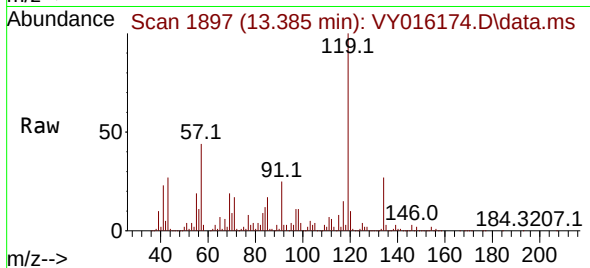
#86
p-Isopropyltoluene
Concen: 433.803 ug/l
RT: 13.385 min Scan# 119
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-2628

Tgt Ion:119 Resp: 309891
Ion Ratio Lower Upper
119 100
134 27.3 13.3 39.8
91 24.6 12.4 37.4

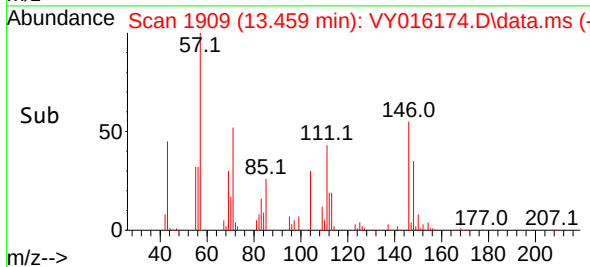
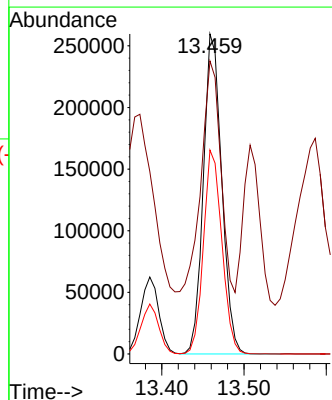
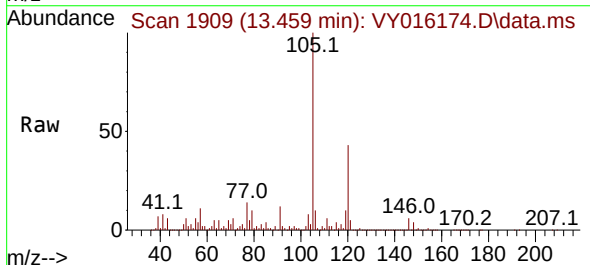
Manual Integrations
APPROVED

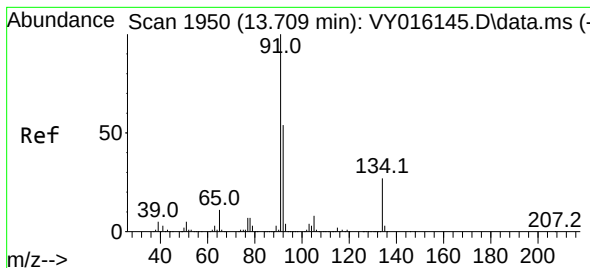
Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#88
1,4-Dichlorobenzene
Concen: 112.604 ug/l
RT: 13.459 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY016174.D
Acq: 01 Nov 2023 17:23

Tgt Ion:146 Resp: 403757
Ion Ratio Lower Upper
146 100
111 74.8 18.9 56.7#
148 63.8 32.1 96.5





#89

n-Butylbenzene

Concen: 702.788 ug/l

RT: 13.709 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628

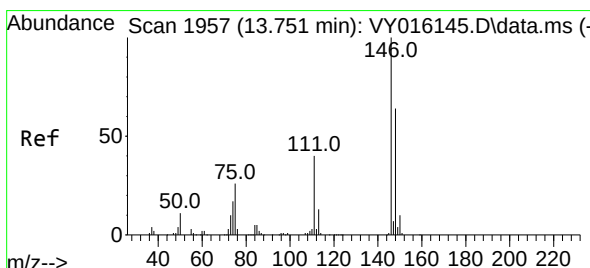
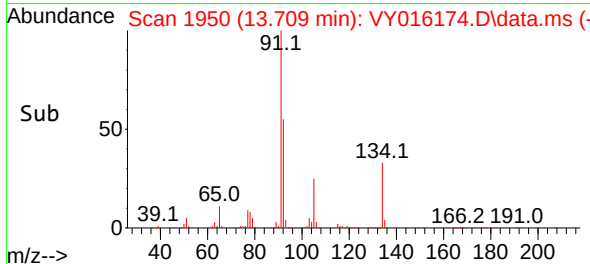
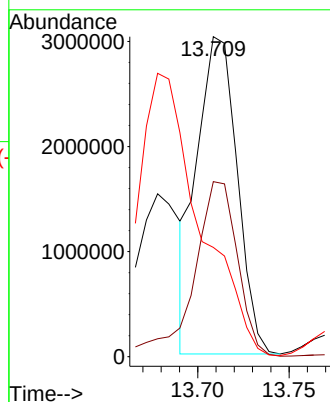
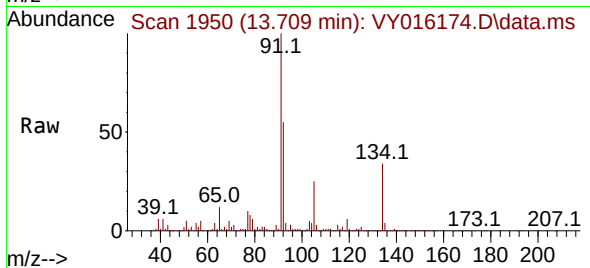
Tgt Ion: 91 Resp: 461299

Ion	Ratio	Lower	Upper
91	100		
92	58.8	25.4	76.0
134	0.0	12.6	37.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023



#91

1,2-Dichlorobenzene

Concen: 2782.661 ug/l

RT: 13.757 min Scan# 1958

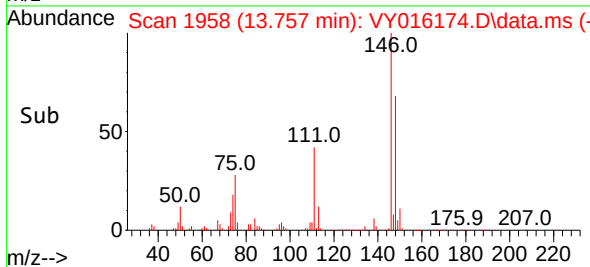
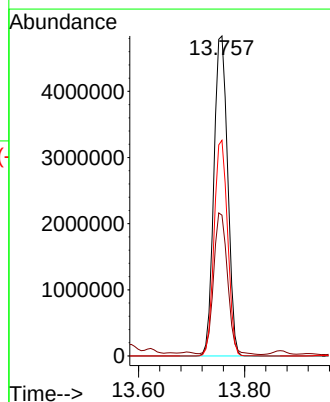
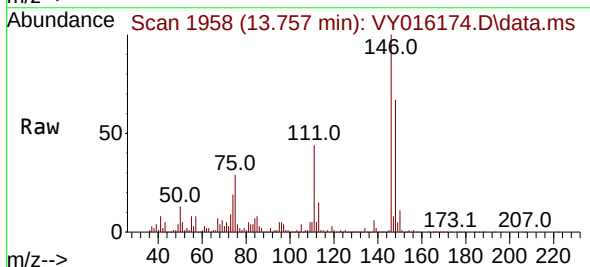
Delta R.T. 0.006 min

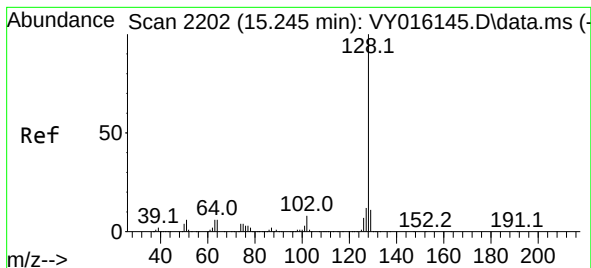
Lab File: VY016174.D

Acq: 01 Nov 2023 17:23

Tgt Ion:146 Resp: 8722282

Ion	Ratio	Lower	Upper
146	100		
111	44.7	19.7	59.0
148	66.1	32.0	96.2





#95

Naphthalene

Concen: 427.892 ug/l

RT: 15.245 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY016174.D

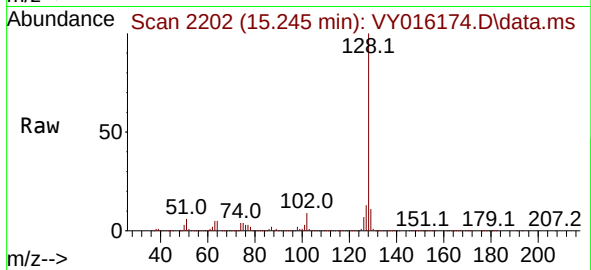
Acq: 01 Nov 2023 17:23

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB02-2628



Tgt Ion:128 Resp: 1608220

Ion Ratio Lower Upper

128 100

127 12.9 10.8 16.2

129 10.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/02/2023
Supervised By :Semsettin Yesilyurt 11/02/2023

