

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031623\
 Data File : VX034553.D
 Acq On : 16 Mar 2023 18:09
 Operator : JC/MD
 Sample : 01945-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230315025-02-VOA

Quant Time: Mar 17 06:29:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 13 10:29:32 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/17/2023
 Supervised By : Mahesh Dadoda 03/17/2023

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	229912	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	386268	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	342789	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	151895	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	166676	49.832	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.660%		
35) Dibromofluoromethane	5.385	113	122894	48.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.380%		
50) Toluene-d8	8.647	98	470791	49.450	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.900%		
62) 4-Bromofluorobenzene	11.079	95	183488	47.714	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.420%		
Target Compounds					Qvalue	
4) Vinyl Chloride	1.368	62	1414	0.485	ug/l	96
8) Diethyl Ether	2.130	74	7525	4.701	ug/l	91
11) Tert butyl alcohol	2.959	59	4681381	6721.097	ug/l	98
16) Acetone	2.373	43	30078	19.091	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	28190	3.128	ug/l	96
25) 2-Butanone	4.574	43	151643	67.266	ug/l #	75
29) Tetrahydrofuran	5.001	42	1285117	923.821	ug/l	98
40) Benzene	6.037	78	46169	4.029	ug/l	96
49) 1,4-Dioxane	7.665	88	8801	120.179	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	38451	9.143	ug/l #	77
52) Toluene	8.720	92	26576	3.746	ug/l	93
65) Chlorobenzene	10.079	112	9059	1.204	ug/l	91
67) Ethyl Benzene	10.195	91	7796	0.579	ug/l	94
68) m/p-Xylenes	10.299	106	51577	9.972	ug/l	97
69) o-Xylene	10.640	106	34057	6.561	ug/l	99
73) Isopropylbenzene	10.957	105	2606	0.222	ug/l	94
79) 2-Chlorotoluene	11.378	91	4830	0.577	ug/l #	69
80) 1,3,5-Trimethylbenzene	11.451	105	11856	1.204	ug/l	94
82) 4-Chlorotoluene	11.451	91	1982m	0.205	ug/l	
84) 1,2,4-Trimethylbenzene	11.750	105	38981	3.874	ug/l	96
86) p-Isopropyltoluene	12.012	119	27389	2.685	ug/l	95
88) 1,4-Dichlorobenzene	12.042	146	22815	4.089	ug/l	91
91) 1,2-Dichlorobenzene	12.335	146	1088	0.204	ug/l #	70
95) Naphthalene	13.780	128	5865	0.524	ug/l #	94

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

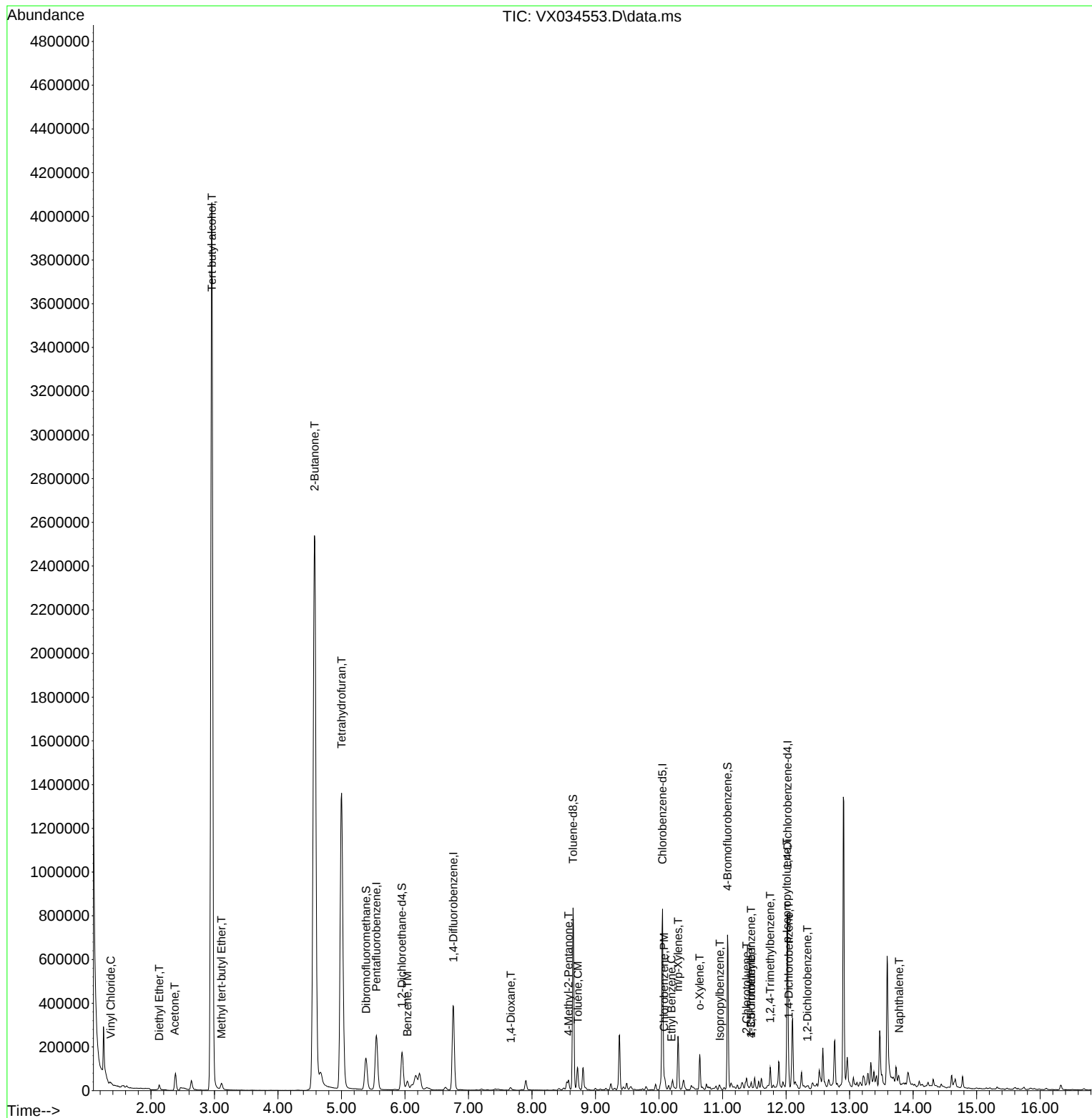
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031623\
Data File : VX034553.D
Acq On : 16 Mar 2023 18:09
Operator : JC/MD
Sample : 01945-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

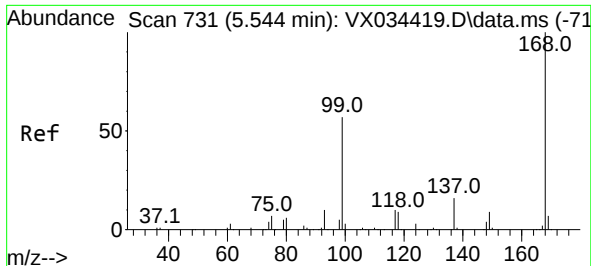
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Quant Time: Mar 17 06:29:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
Quant Title : SW846 8260
QLast Update : Mon Mar 13 10:29:32 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023





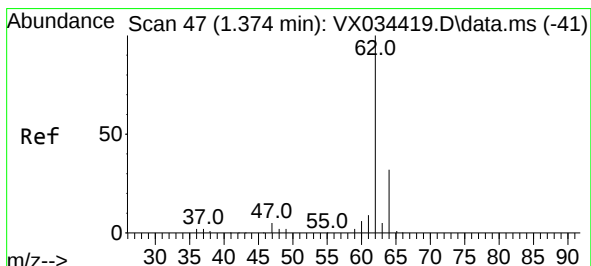
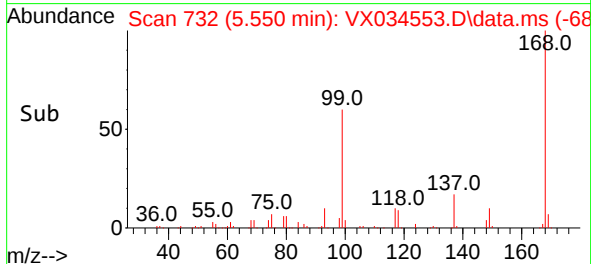
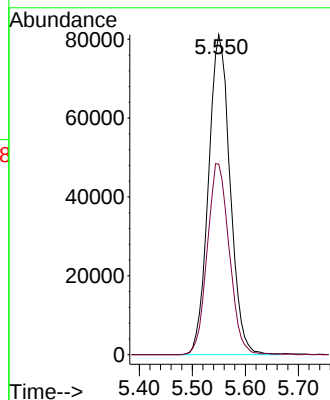
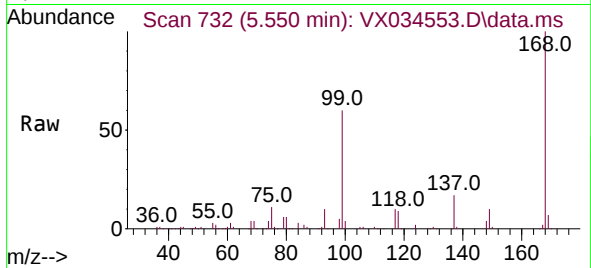
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion:168 Resp: 22991
Ion Ratio Lower Upper
168 100
99 59.6 45.7 68.5

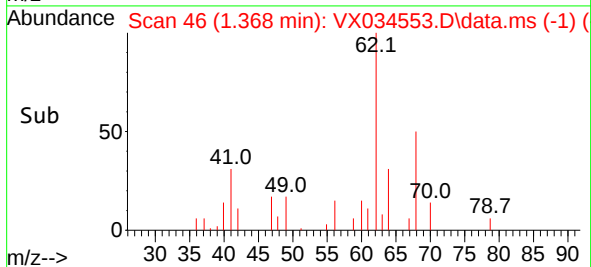
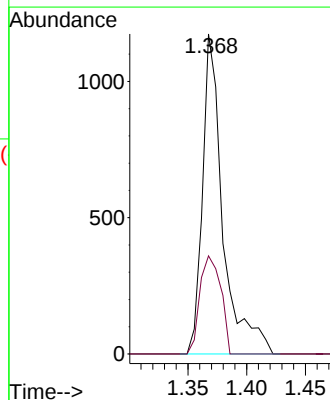
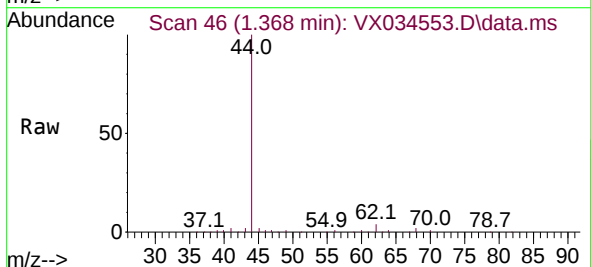
Manual Integrations
APPROVED

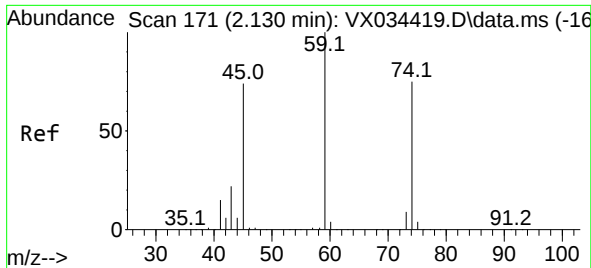
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#4
Vinyl Chloride
Concen: 0.485 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

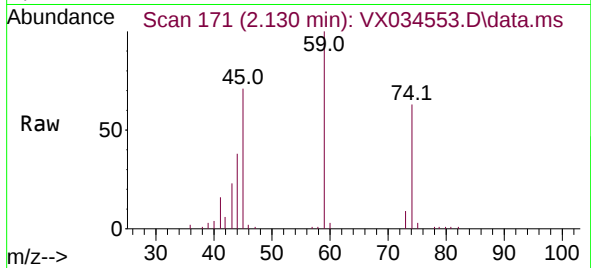
Tgt Ion: 62 Resp: 1414
Ion Ratio Lower Upper
62 100
64 30.7 26.4 39.6





#8
Diethyl Ether
Concen: 4.701 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

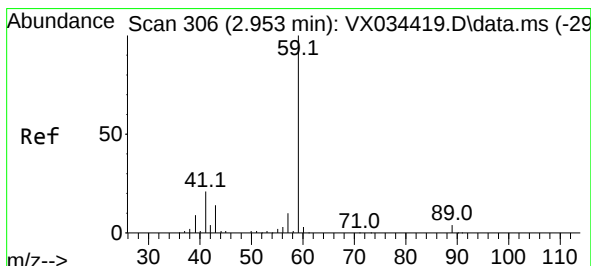
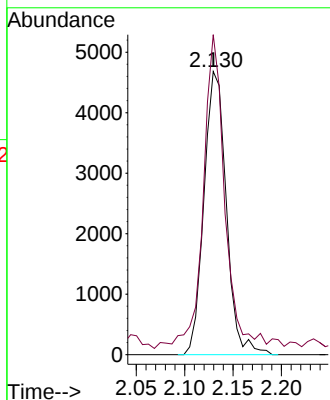
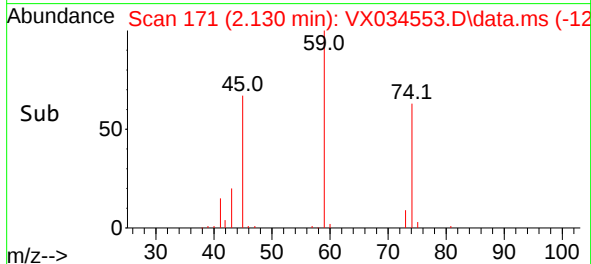
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



Tgt Ion: 74 Resp: 752
Ion Ratio Lower Upper
74 100
45 108.9 49.8 149.3

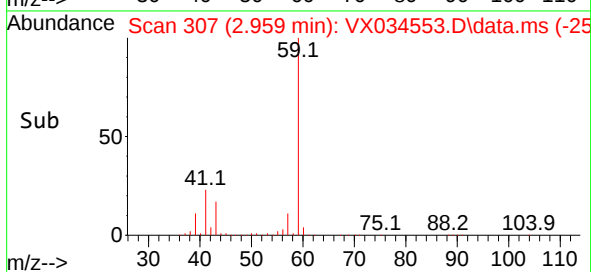
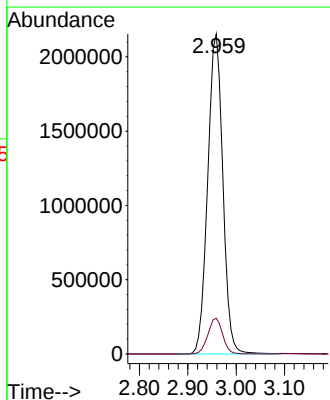
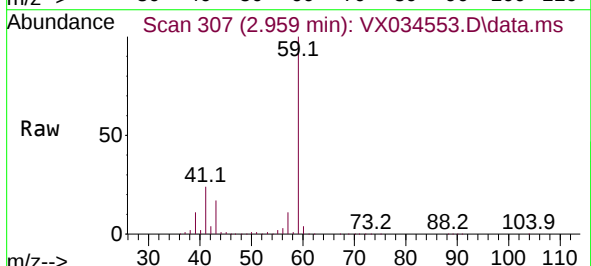
Manual Integrations
APPROVED

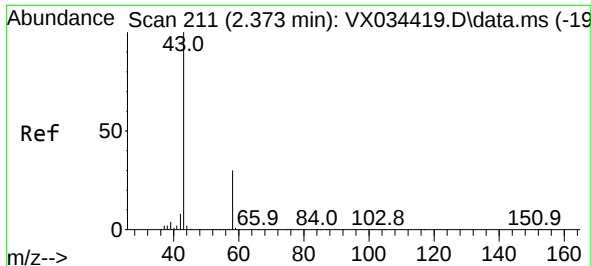
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#11
Tert butyl alcohol
Concen: 6721.097 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

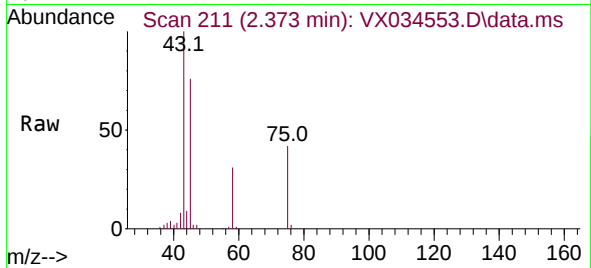
Tgt Ion: 59 Resp: 4681381
Ion Ratio Lower Upper
59 100
57 10.9 8.1 12.1





#16
Acetone
Concen: 19.091 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

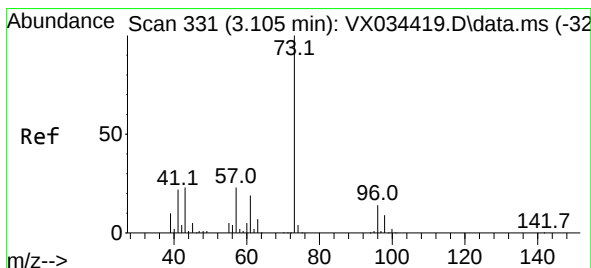
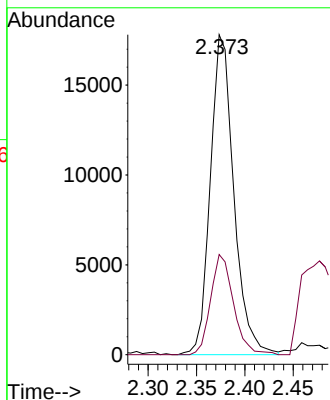
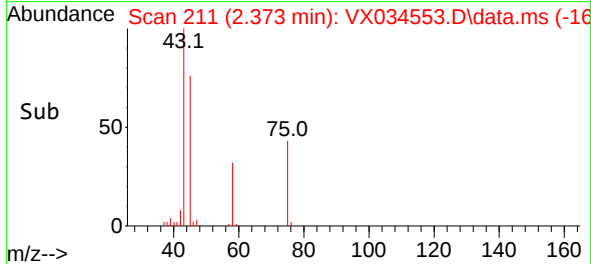
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



Tgt Ion: 43 Resp: 30078
Ion Ratio Lower Upper
43 100
58 31.3 24.7 37.1

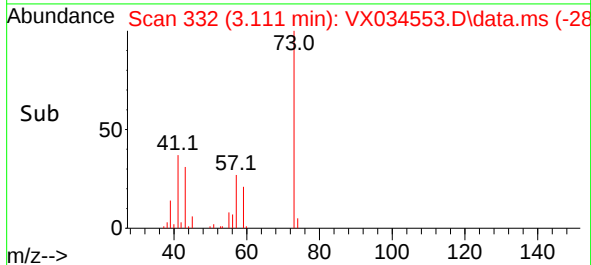
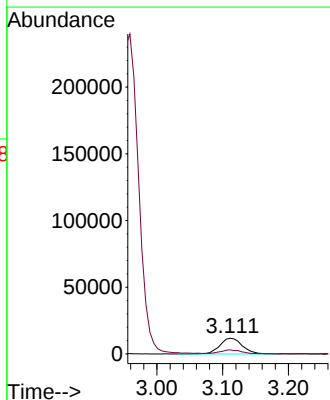
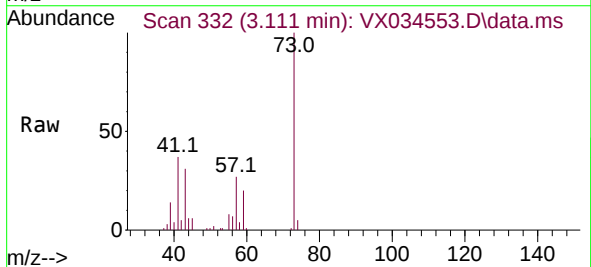
Manual Integrations
APPROVED

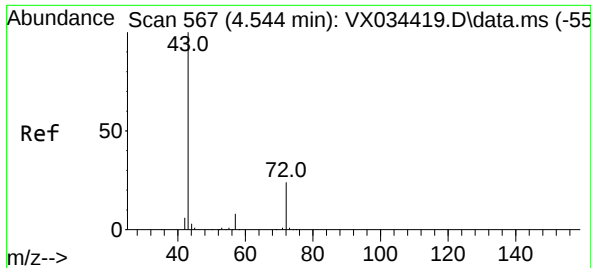
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#19
Methyl tert-butyl Ether
Concen: 3.128 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Tgt Ion: 73 Resp: 28190
Ion Ratio Lower Upper
73 100
57 25.1 18.5 27.7





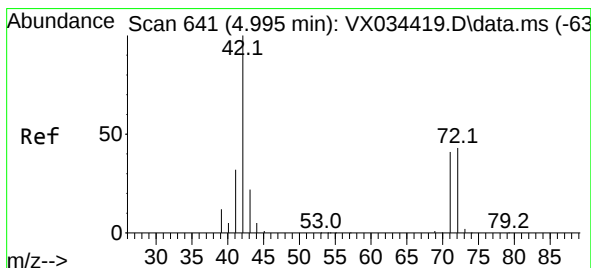
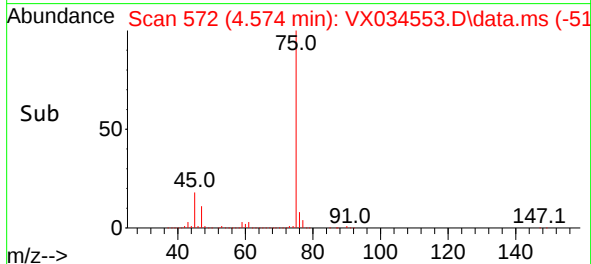
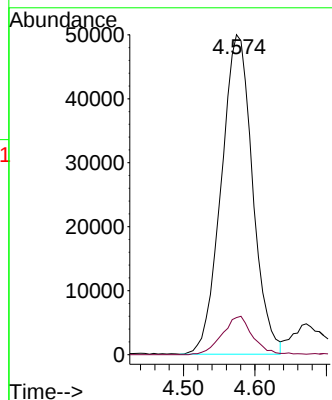
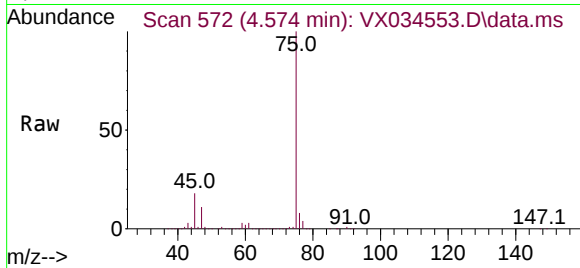
#25
2-Butanone
Concen: 67.266 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.030 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion: 43 Resp: 15164
Ion Ratio Lower Upper
43 100
72 11.6 19.3 28.9

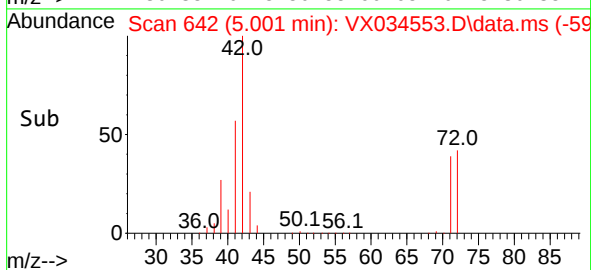
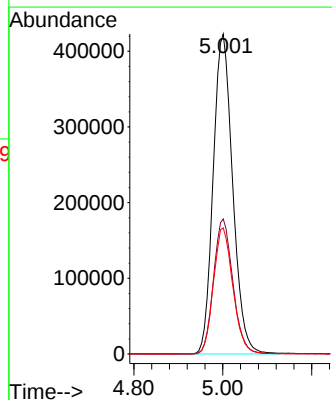
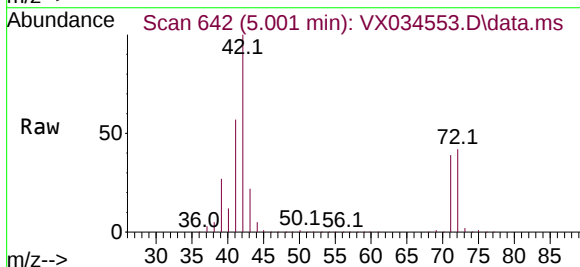
Manual Integrations
APPROVED

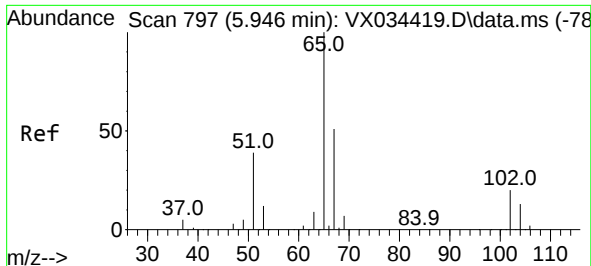
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#29
Tetrahydrofuran
Concen: 923.821 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Tgt Ion: 42 Resp: 1285117
Ion Ratio Lower Upper
42 100
72 41.8 34.5 51.7
71 39.3 32.1 48.1





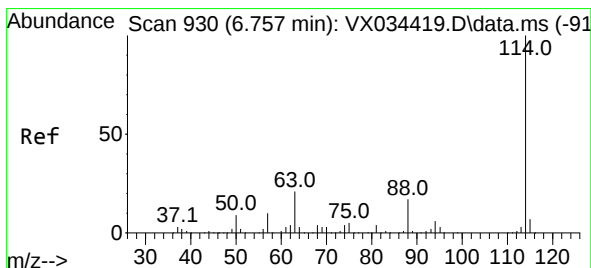
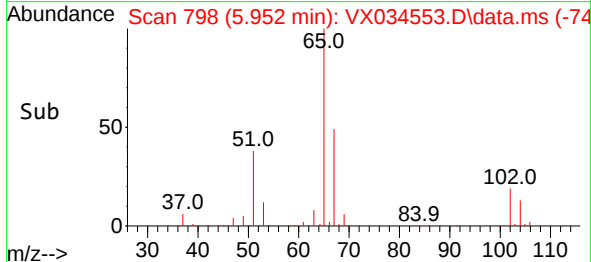
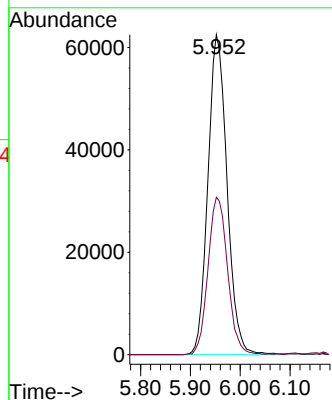
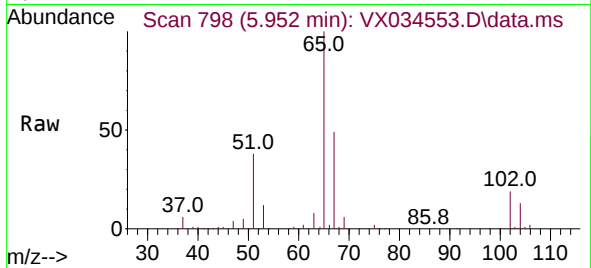
#33
1,2-Dichloroethane-d4
Concen: 49.832 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion: 65 Resp: 166670
Ion Ratio Lower Upper
65 100
67 50.3 0.0 104.0

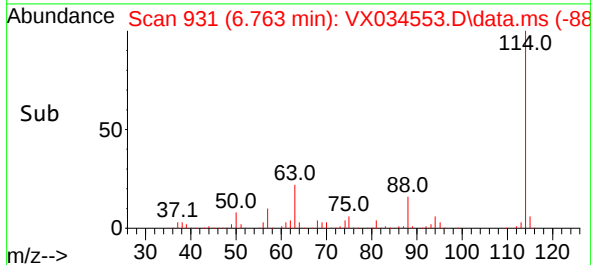
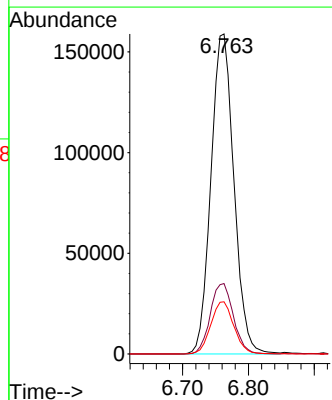
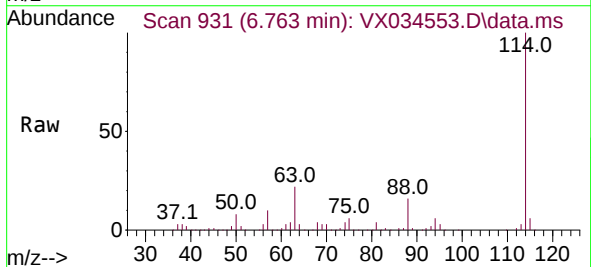
Manual Integrations
APPROVED

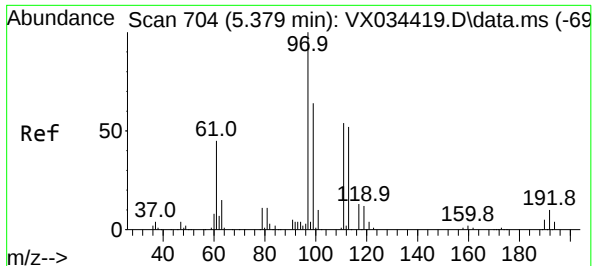
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

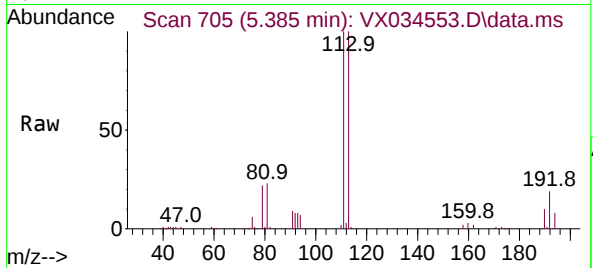
Tgt Ion:114 Resp: 386268
Ion Ratio Lower Upper
114 100
63 22.0 0.0 42.2
88 16.3 0.0 33.2





#35
Dibromofluoromethane
Concen: 48.188 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

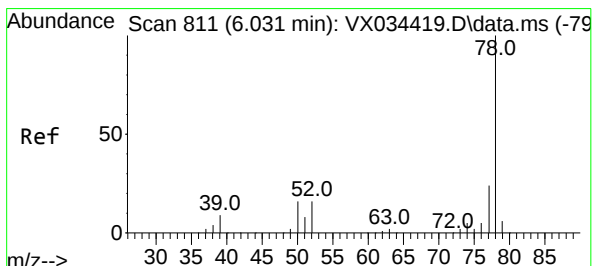
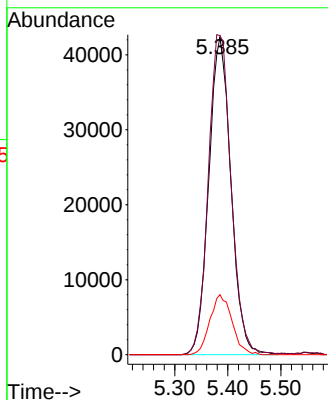
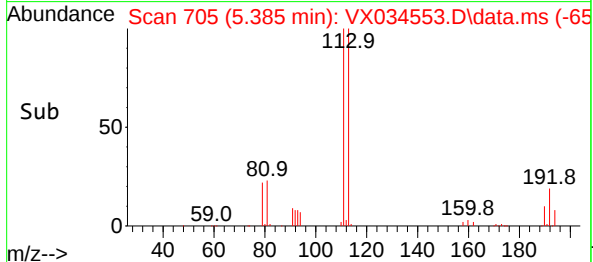
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



Tgt Ion:113 Resp: 122894
Ion Ratio Lower Upper
113 100
111 104.0 83.7 125.5
192 18.9 15.4 23.2

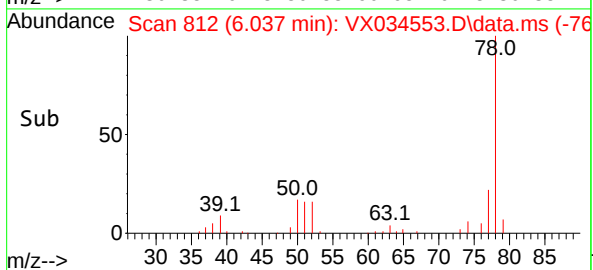
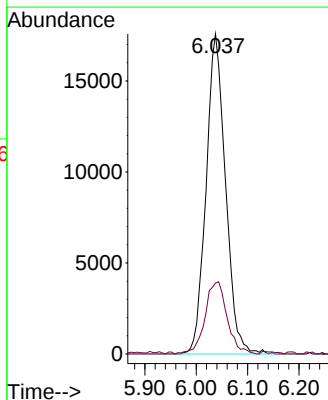
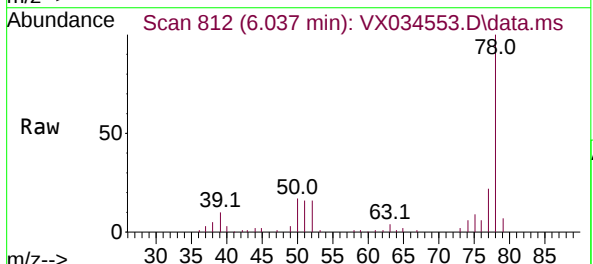
Manual Integrations
APPROVED

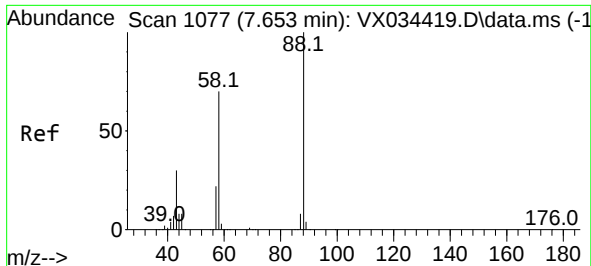
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#40
Benzene
Concen: 4.029 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

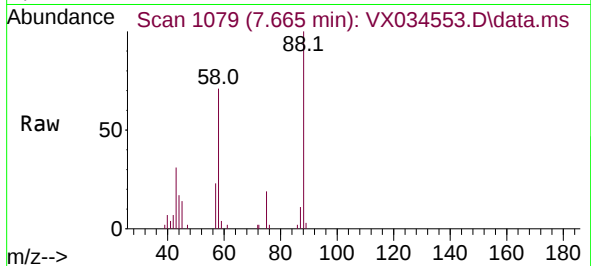
Tgt Ion: 78 Resp: 46169
Ion Ratio Lower Upper
78 100
77 21.8 19.0 28.4





#49
1,4-Dioxane
Concen: 120.179 ug/l
RT: 7.665 min Scan# 1079
Delta R.T. 0.012 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

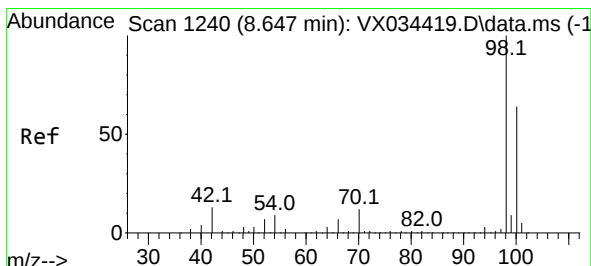
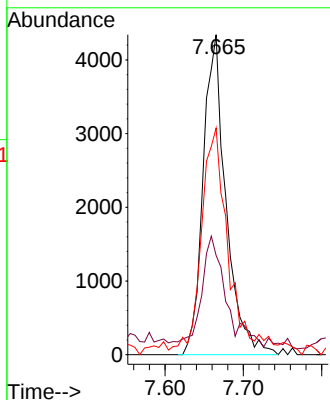
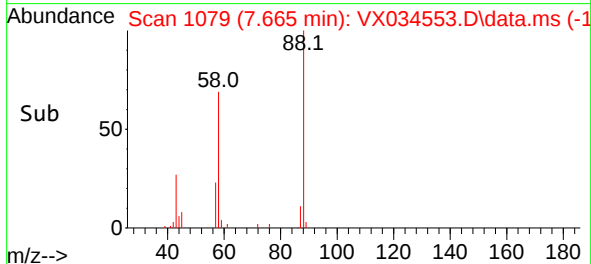
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



Tgt Ion: 88 Resp: 880
Ion Ratio Lower Upper
88 100
43 36.6 27.7 41.5
58 75.5 56.8 85.2

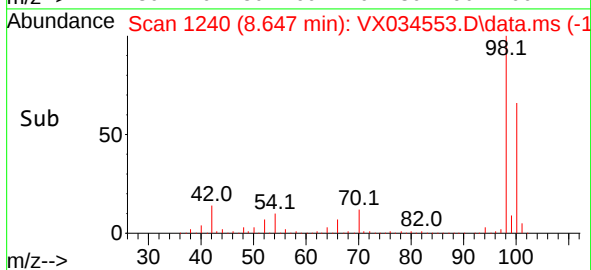
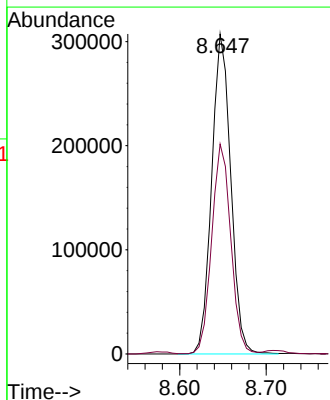
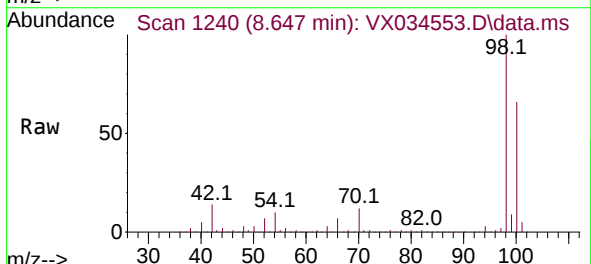
Manual Integrations
APPROVED

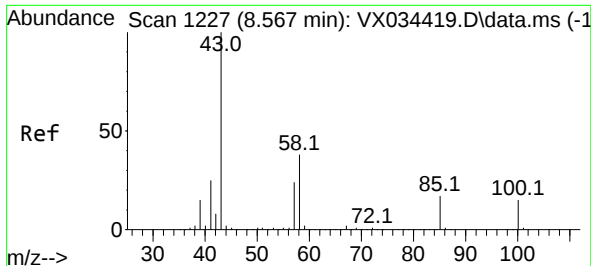
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#50
Toluene-d8
Concen: 49.450 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Tgt Ion: 98 Resp: 470791
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7





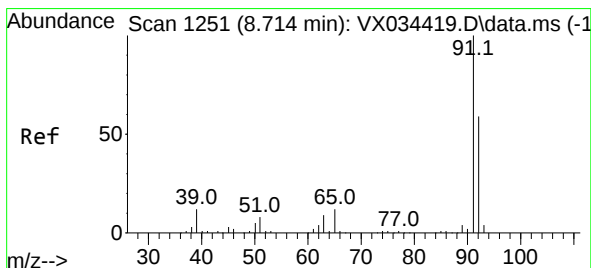
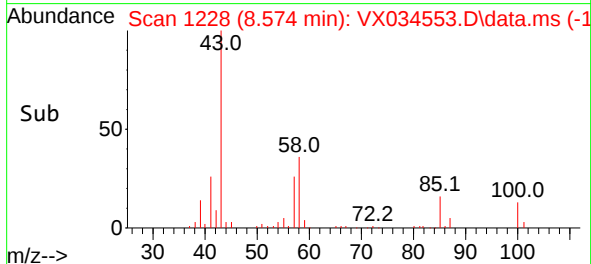
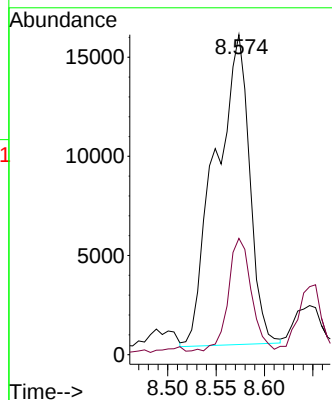
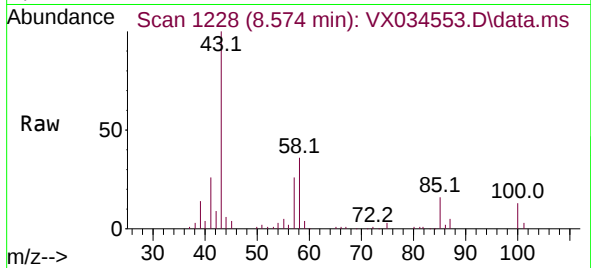
#51
4-Methyl-2-Pentanone
Concen: 9.143 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion: 43 Resp: 3845
Ion Ratio Lower Upper
43 100
58 24.7 30.6 46.0

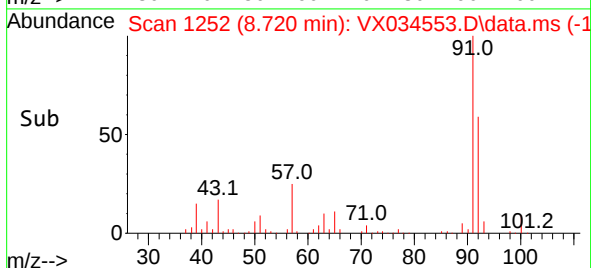
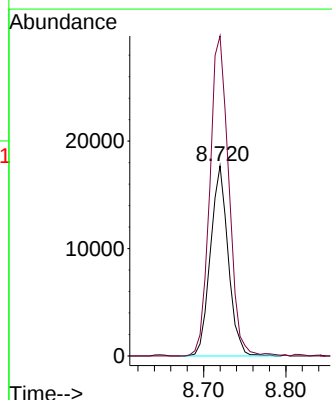
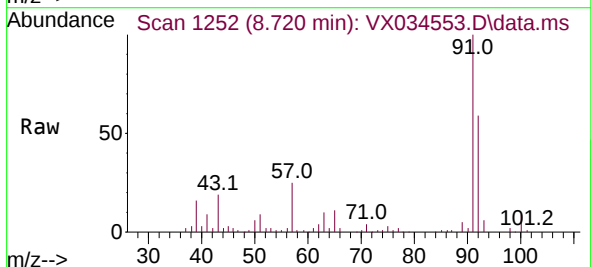
Manual Integrations
APPROVED

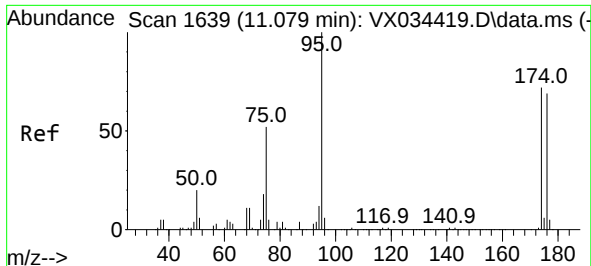
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#52
Toluene
Concen: 3.746 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

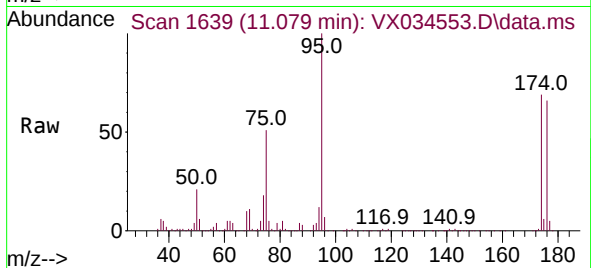
Tgt Ion: 92 Resp: 26576
Ion Ratio Lower Upper
92 100
91 180.0 136.8 205.2





#62
4-Bromofluorobenzene
Concen: 47.714 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

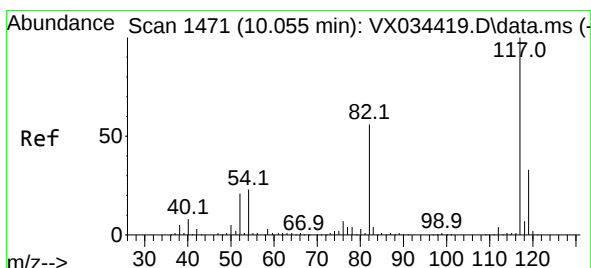
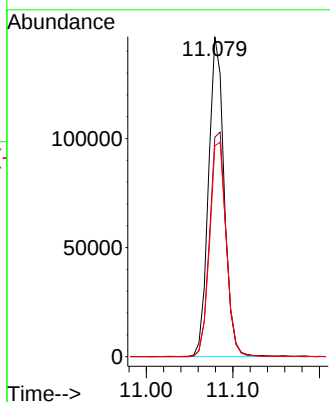
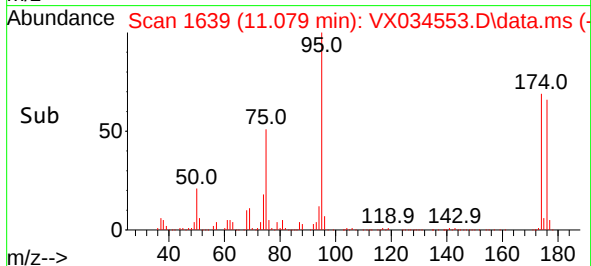
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



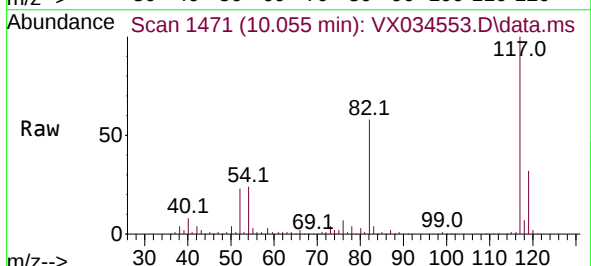
Tgt Ion: 95 Resp: 183488
Ion Ratio Lower Upper
95 100
174 74.1 0.0 147.4
176 71.2 0.0 140.6

Manual Integrations
APPROVED

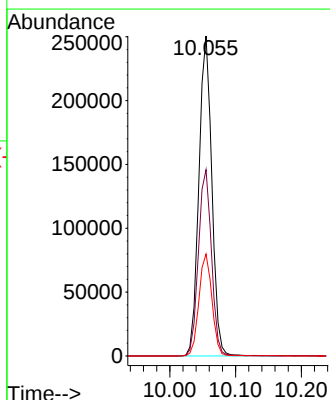
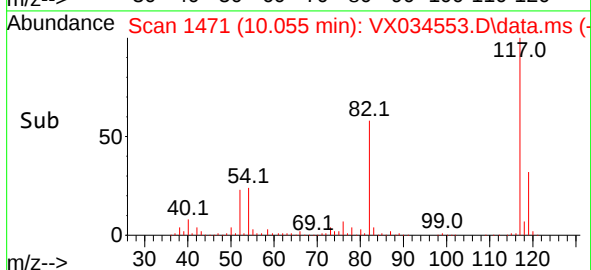
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

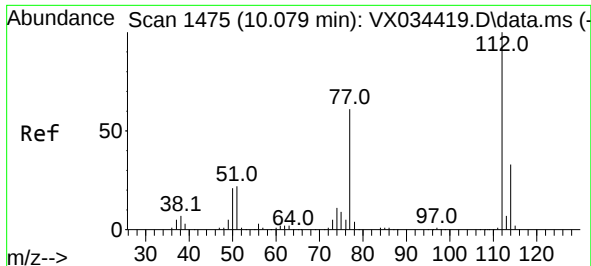


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09



Tgt Ion:117 Resp: 342789
Ion Ratio Lower Upper
117 100
82 58.2 45.0 67.4
119 31.9 26.0 39.0





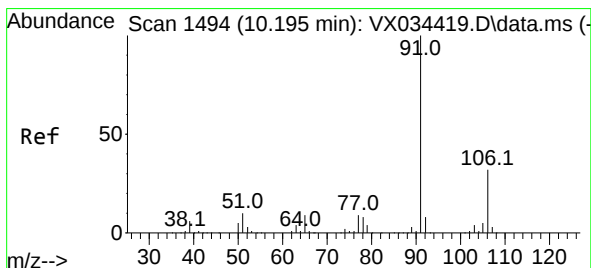
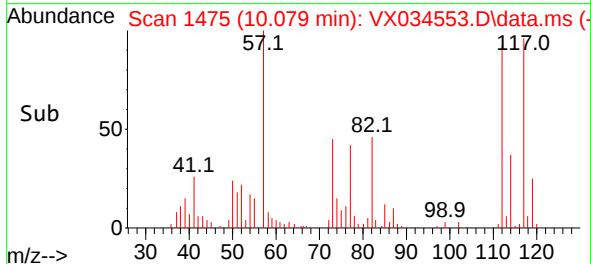
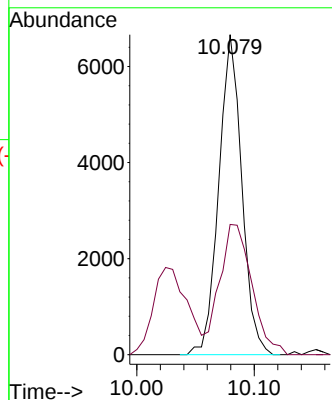
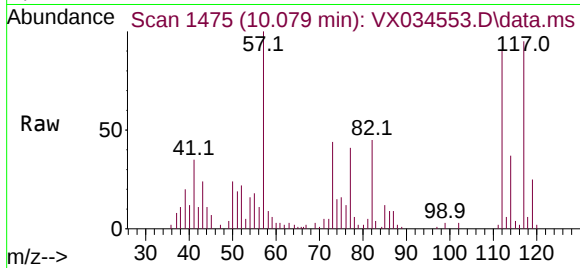
#65
Chlorobenzene
Concen: 1.204 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion:112 Resp: 9059
Ion Ratio Lower Upper
112 100
114 37.9 26.2 39.2

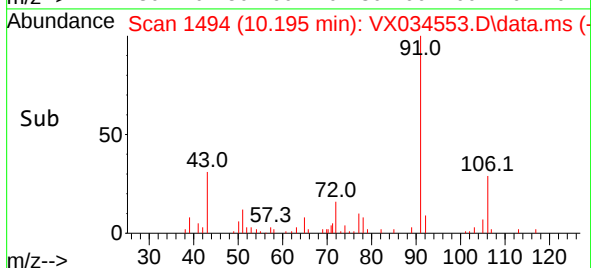
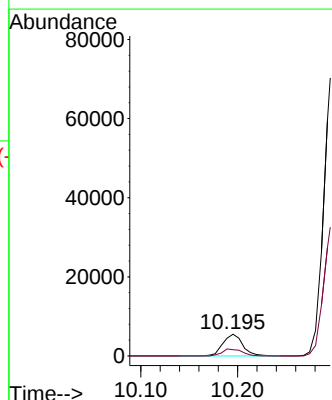
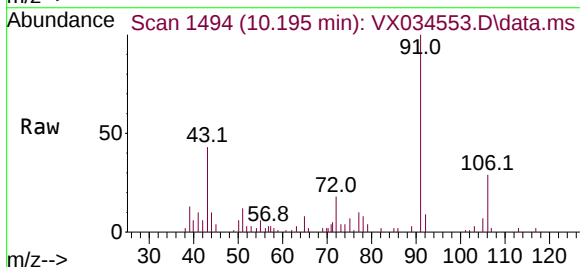
Manual Integrations
APPROVED

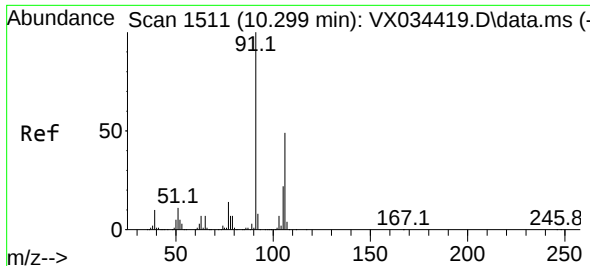
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#67
Ethyl Benzene
Concen: 0.579 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

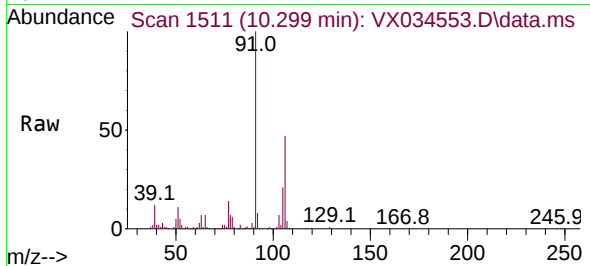
Tgt Ion: 91 Resp: 7796
Ion Ratio Lower Upper
91 100
106 28.9 25.6 38.4





#68
m/p-Xylenes
Concen: 9.972 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

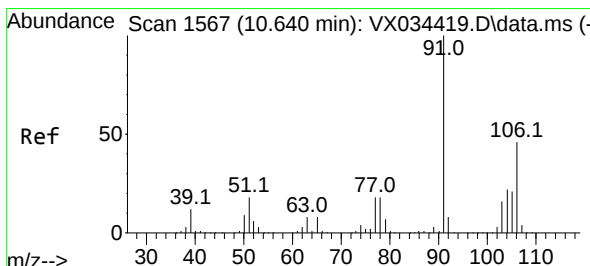
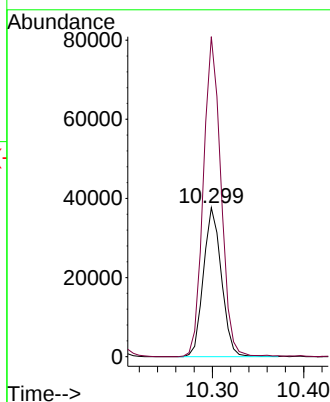
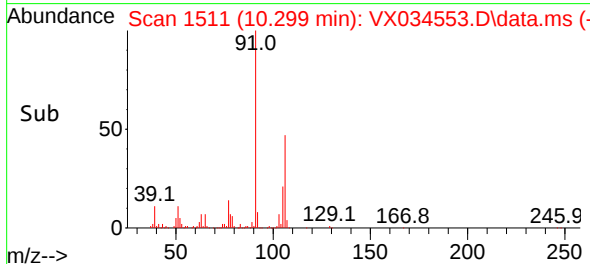
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



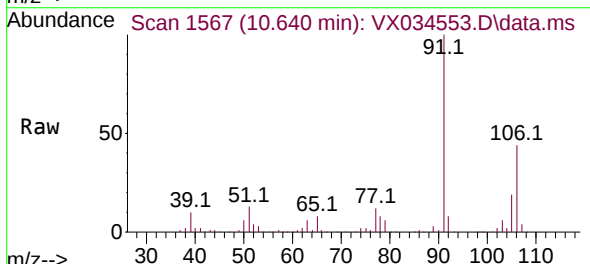
Tgt Ion:106 Resp: 5157
Ion Ratio Lower Upper
106 100
91 209.9 164.0 246.0

Manual Integrations
APPROVED

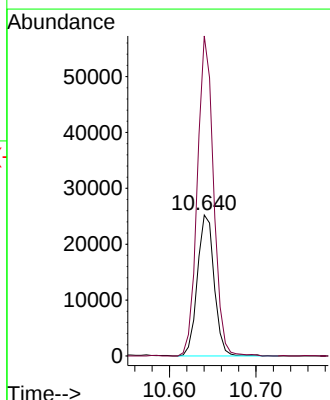
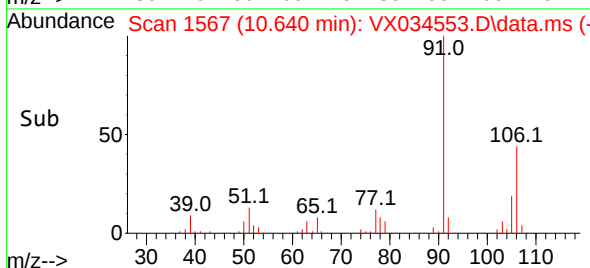
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

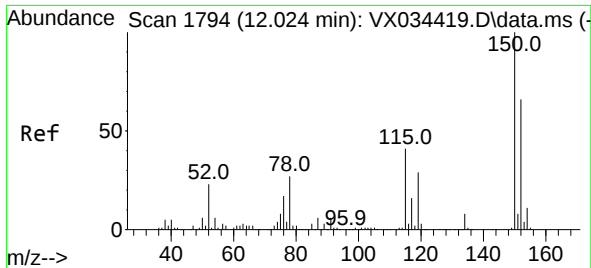


#69
o-Xylene
Concen: 6.561 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09



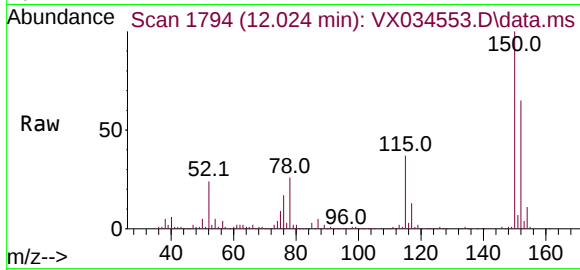
Tgt Ion:106 Resp: 34057
Ion Ratio Lower Upper
106 100
91 218.6 108.5 325.3





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

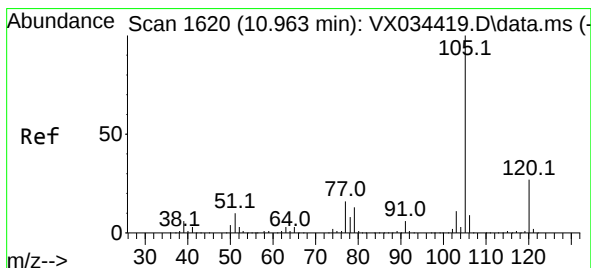
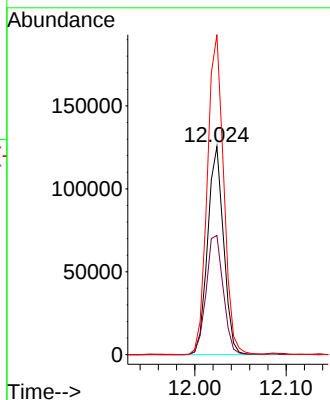
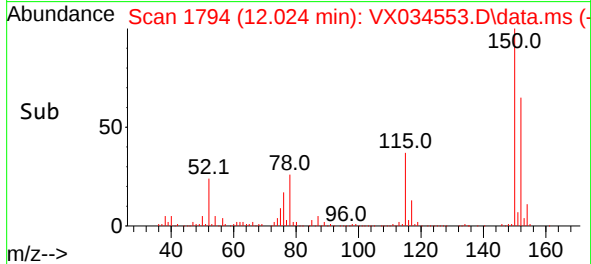
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



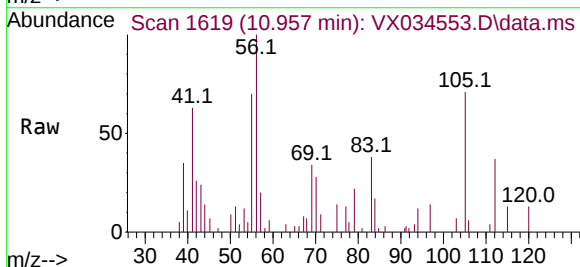
Tgt Ion:152 Resp: 15189
Ion Ratio Lower Upper
152 100
115 61.5 45.0 135.0
150 157.8 0.0 352.4

Manual Integrations
APPROVED

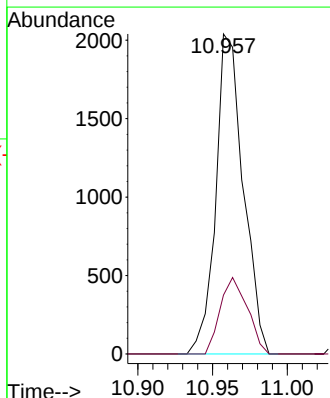
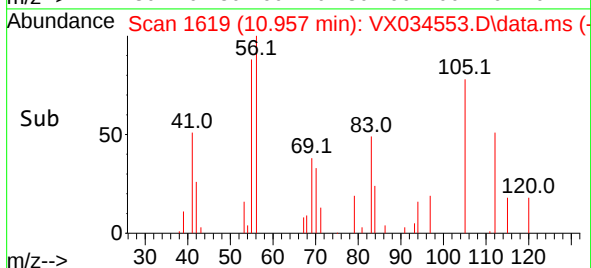
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

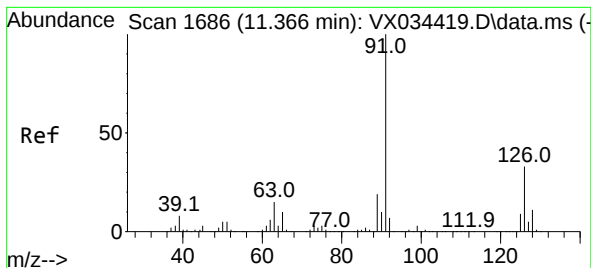


#73
Isopropylbenzene
Concen: 0.222 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09



Tgt Ion:105 Resp: 2606
Ion Ratio Lower Upper
105 100
120 23.7 13.3 39.9





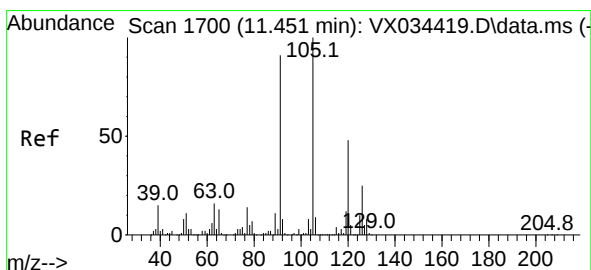
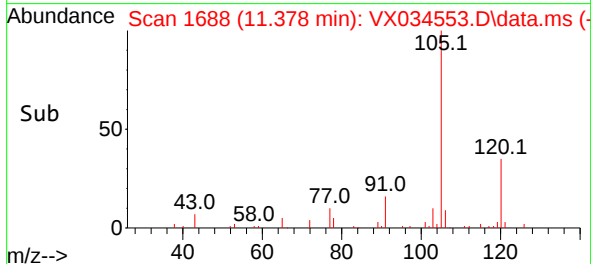
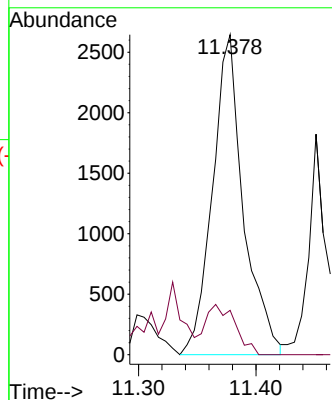
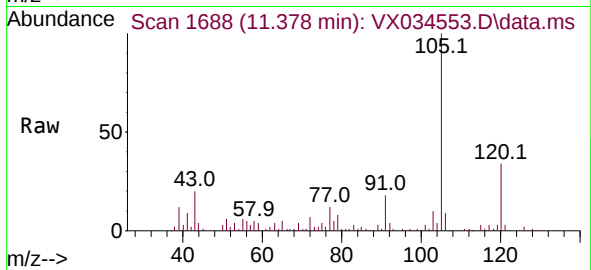
#79
2-Chlorotoluene
Concen: 0.577 ug/l
RT: 11.378 min Scan# 1686
Delta R.T. 0.012 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion: 91 Resp: 4830
Ion Ratio Lower Upper
91 100
126 15.3 16.3 48.9

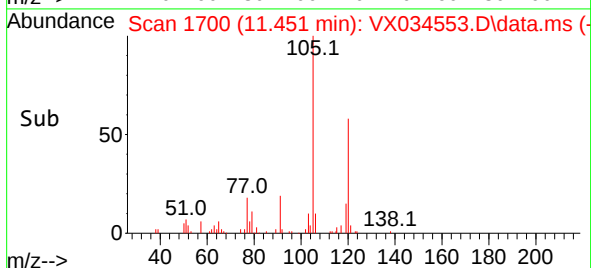
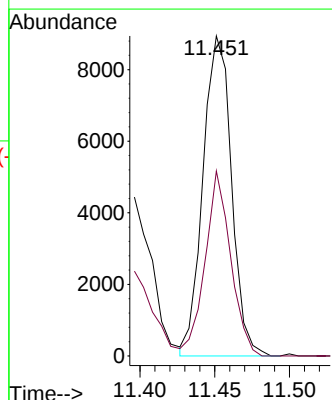
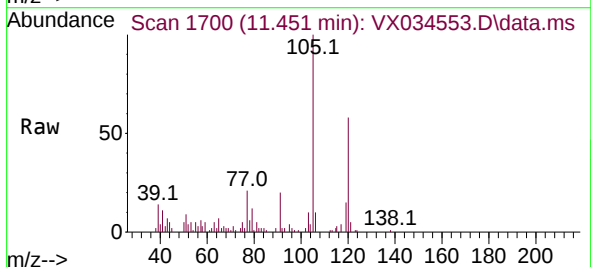
Manual Integrations
APPROVED

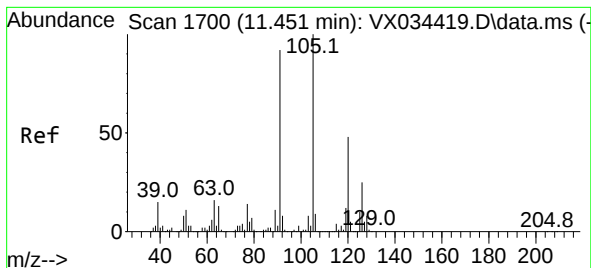
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#80
1,3,5-Trimethylbenzene
Concen: 1.204 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

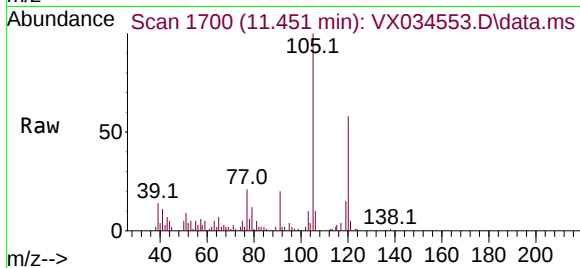
Tgt Ion:105 Resp: 11856
Ion Ratio Lower Upper
105 100
120 51.7 23.7 71.1





#82
4-Chlorotoluene
Concen: 0.205 ug/l m
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

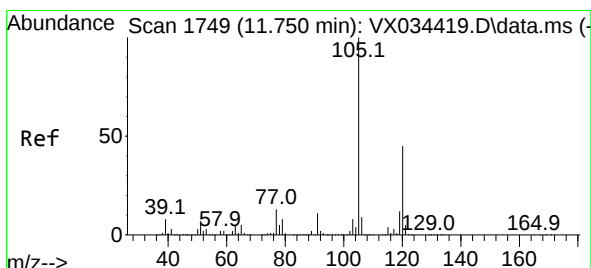
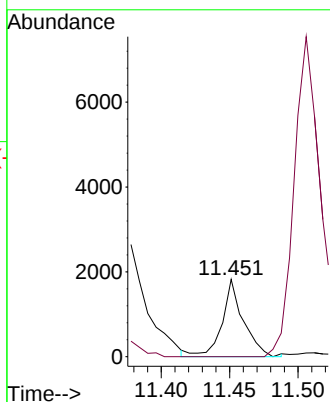
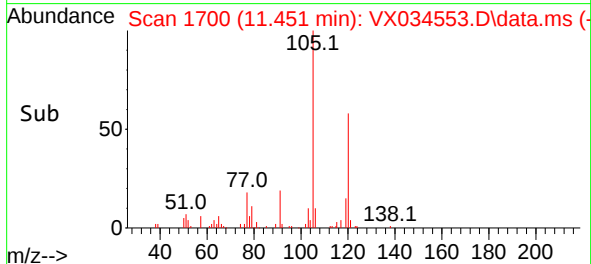
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



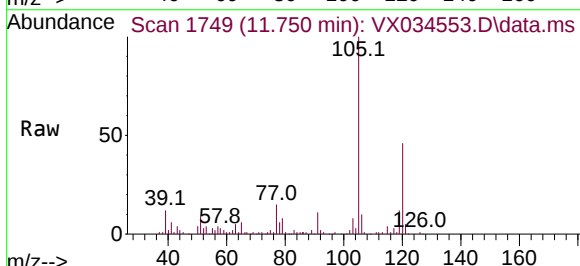
Tgt Ion: 91 Resp: 1982
Ion Ratio Lower Upper
91 100
126 37.3 14.2 42.6

Manual Integrations
APPROVED

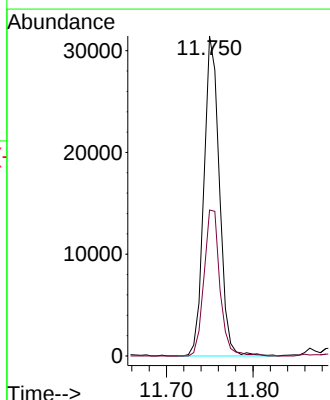
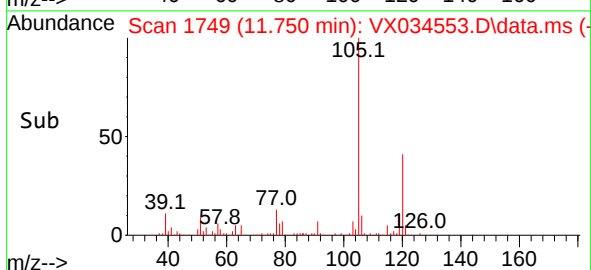
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

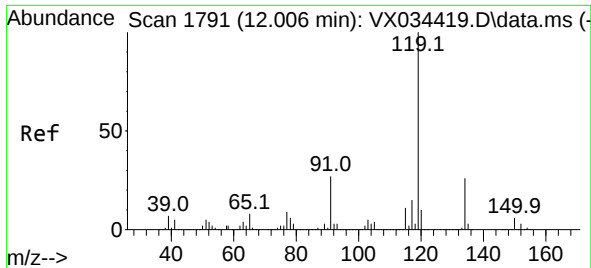


#84
1,2,4-Trimethylbenzene
Concen: 3.874 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09



Tgt Ion:105 Resp: 38981
Ion Ratio Lower Upper
105 100
120 47.2 22.4 67.0





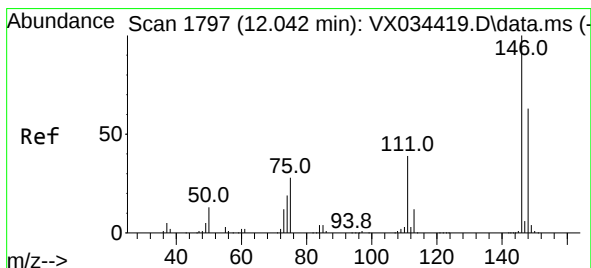
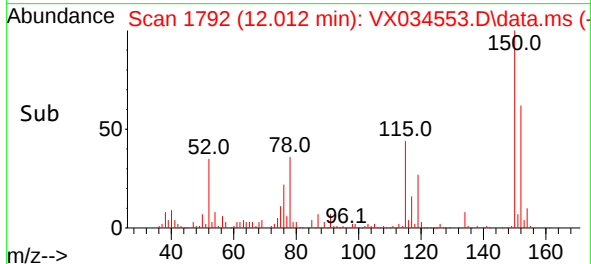
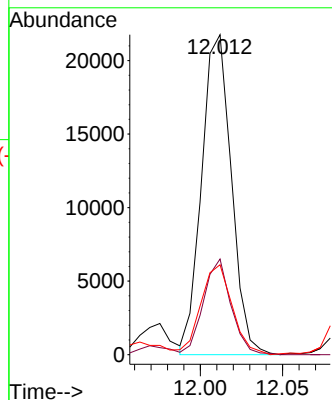
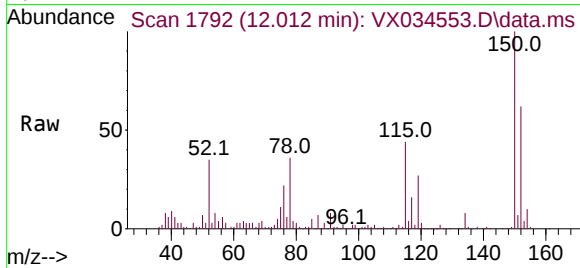
#86
p-Isopropyltoluene
Concen: 2.685 ug/l
RT: 12.012 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA

Tgt Ion:119 Resp: 27385
Ion Ratio Lower Upper
119 100
134 27.8 13.2 39.5
91 29.1 12.9 38.7

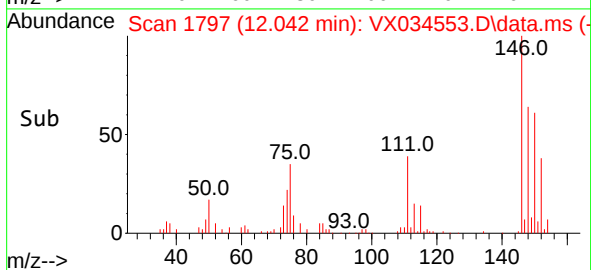
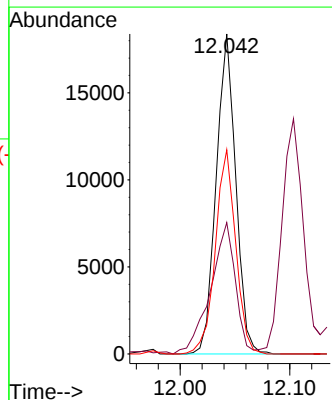
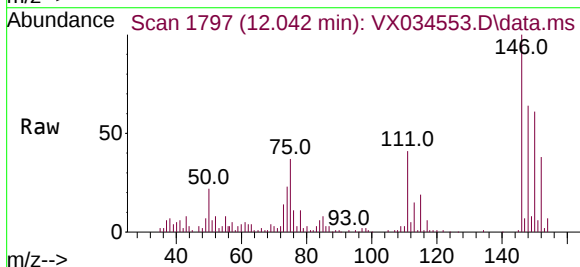
Manual Integrations
APPROVED

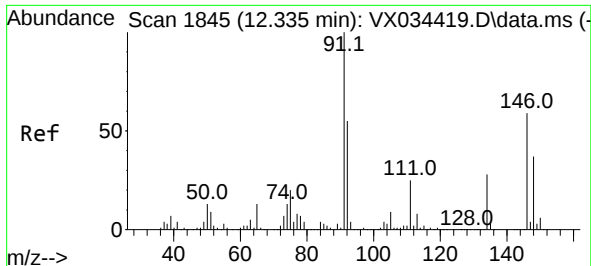
Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#88
1,4-Dichlorobenzene
Concen: 4.089 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

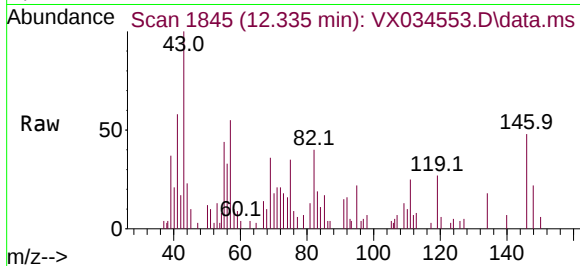
Tgt Ion:146 Resp: 22815
Ion Ratio Lower Upper
146 100
111 52.0 20.6 61.9
148 66.5 31.8 95.4





#91
1,2-Dichlorobenzene
Concen: 0.204 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09

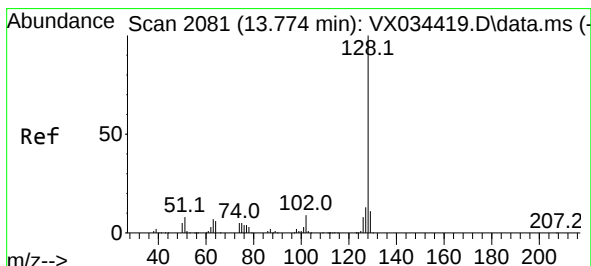
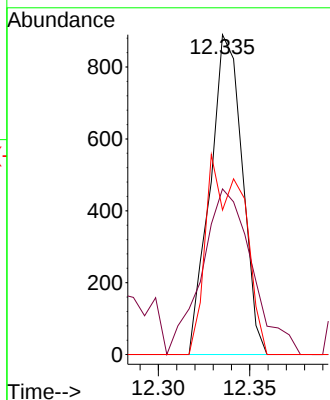
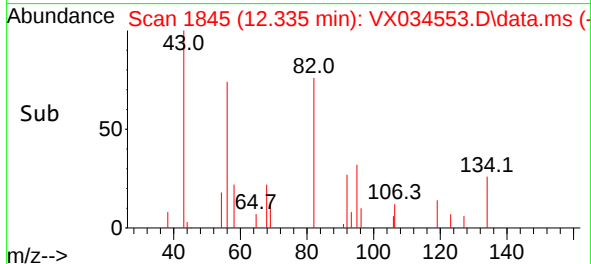
Instrument :
MSVOA_X
ClientSampleId :
230315025-02-VOA



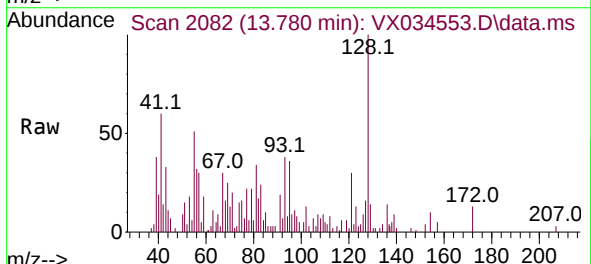
Tgt Ion:146 Resp: 1088
Ion Ratio Lower Upper
146 100
111 80.9 22.0 66.0
148 72.6 32.0 96.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#95
Naphthalene
Concen: 0.524 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX034553.D
Acq: 16 Mar 2023 18:09



Tgt Ion:128 Resp: 5865
Ion Ratio Lower Upper
128 100
127 15.6 10.2 15.4
129 12.9 8.6 13.0

