

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
 Data File : VX042300.D
 Acq On : 12 Jul 2024 14:16
 Operator : JC/MD
 Sample : P3219-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240710079-02

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/15/2024
 Supervised By :Mahesh Dadoda 07/15/2024

Quant Time: Jul 15 03:26:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	25853	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	144115	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	129897	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	52961	29.758	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.200%		
60) 4-Bromofluorobenzene	11.079	95	55776	27.740	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.467%		
63) Toluene-d8	8.647	98	159495	28.699	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.667%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	14705	14.748	ug/l	96
15) Acetone	2.386	58	4019	14.694	ug/l	82
23) tert-Butyl Alcohol	2.977	59	137576	387.035	ug/l #	100
34) Benzene	6.038	78	13756	2.195	ug/l	98
45) 1,4-Dioxane	7.671	88	10438m	242.616	ug/l	
62) Toluene	8.720	91	7312	1.112	ug/l	99
64) Chlorobenzene	10.079	112	54099	12.086	ug/l	97
66) Ethyl Benzene	10.195	91	51940	7.228	ug/l	98
67) m/p-Xylenes	10.299	106	8955	3.098	ug/l	97
68) o-Xylene	10.640	106	10577	3.670	ug/l	99
70) Isopropylbenzene	10.963	105	12758	1.761	ug/l	98
74) n-propylbenzene	11.305	91	6668	0.838	ug/l	97
75) 2-Chlorotoluene	11.366	91	3268	0.647	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	2374	0.391	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	14509	2.392	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	39562	10.546	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	3057	0.802	ug/l	98
91) Naphthalene	13.774	128	79078	10.144	ug/l	100

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

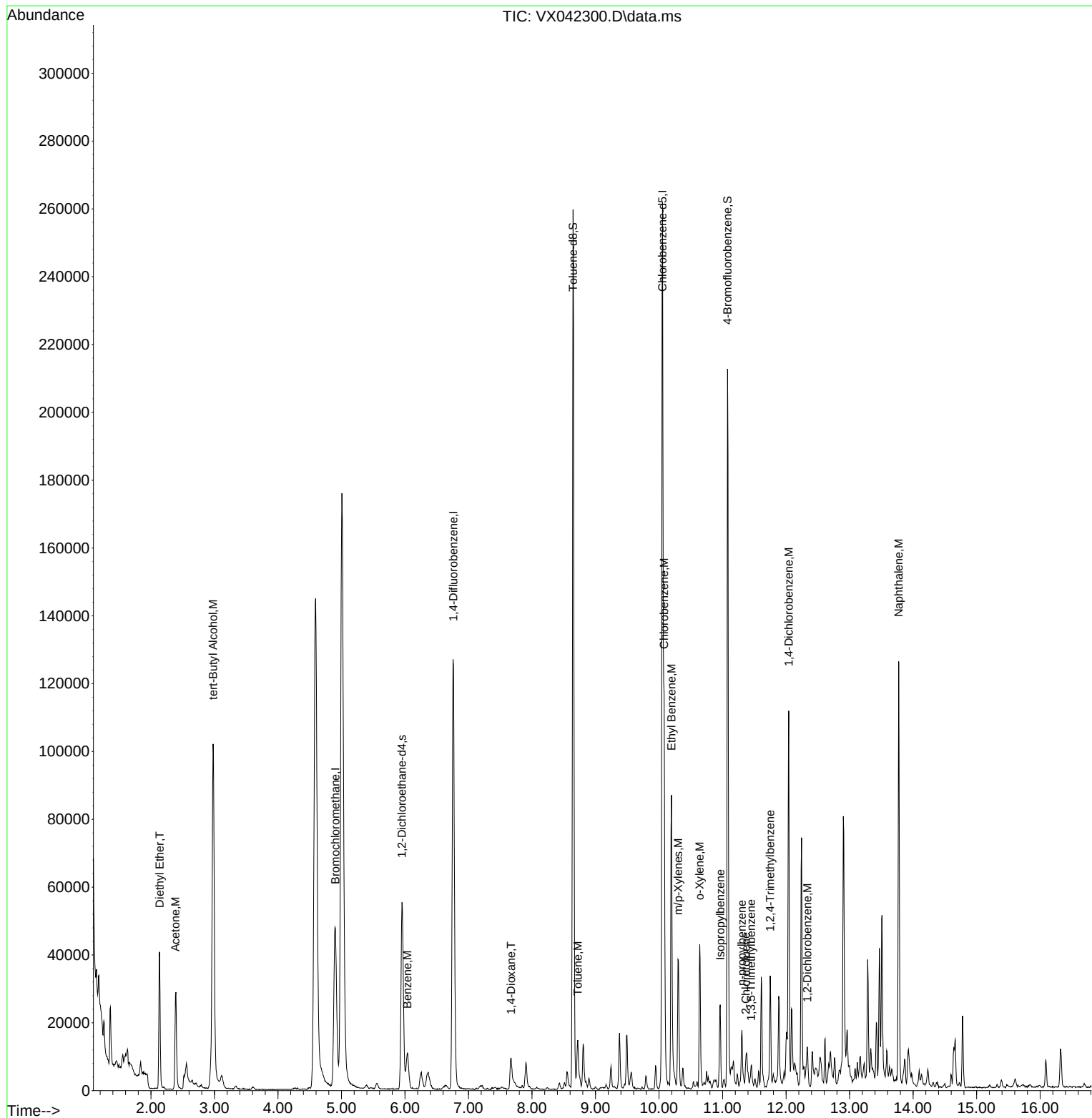
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
Data File : VX042300.D
Acq On : 12 Jul 2024 14:16
Operator : JC/MD
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ALS Vial : 8 Sample Multiplier: 1

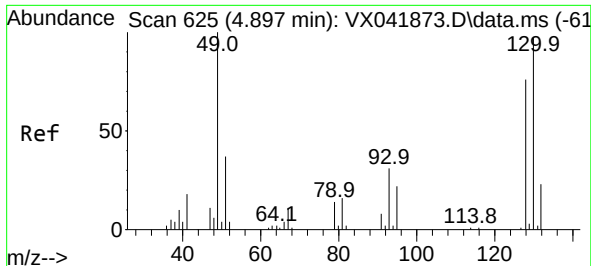
Instrument :
MSVOA_X
ClientSampleId :
240710079-02

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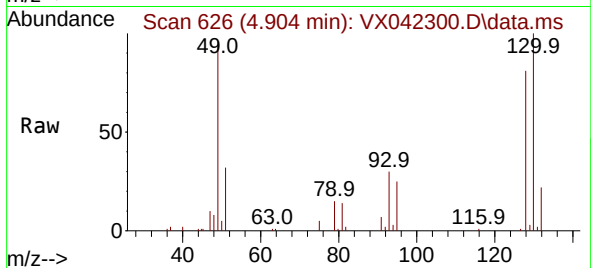
Quant Time: Jul 15 03:26:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

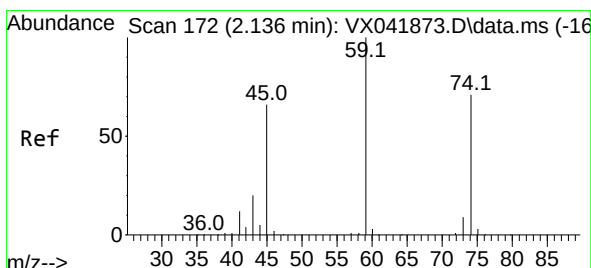
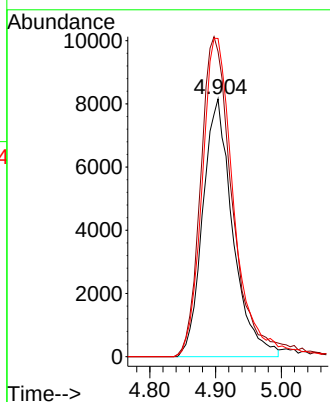
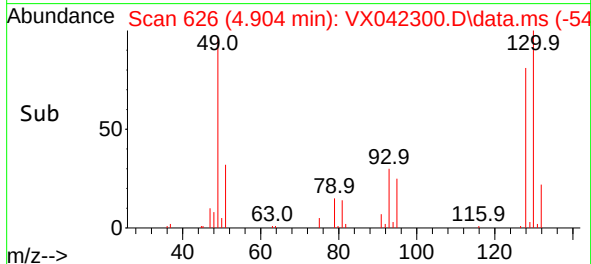
Instrument :
MSVOA_X
ClientSampleId :
240710079-02



Tgt Ion:128 Resp: 2585
Ion Ratio Lower Upper
128 100
49 131.5 0.0 338.5
130 127.3 0.0 324.5

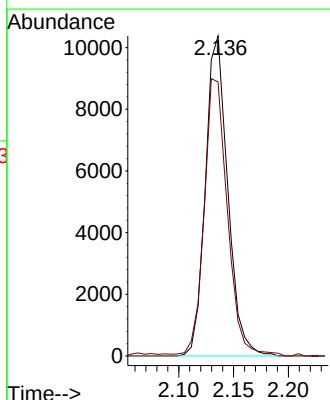
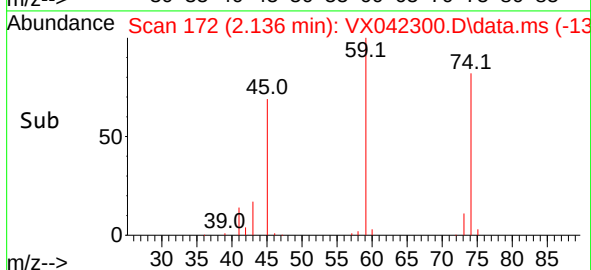
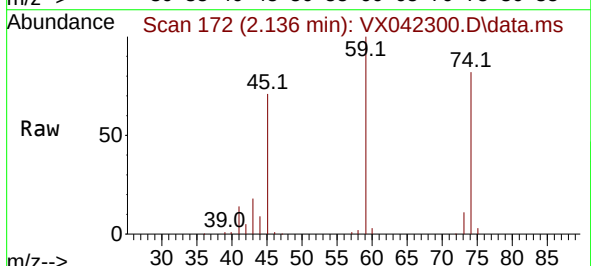
Manual Integrations
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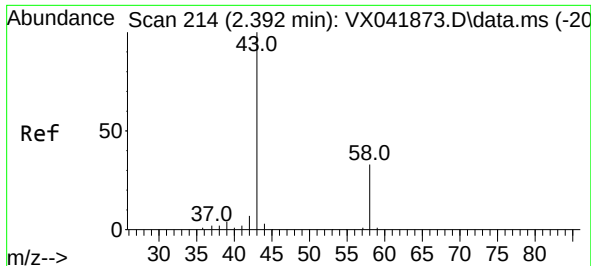
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#8
Diethyl Ether
Concen: 14.748 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Tgt Ion: 74 Resp: 14705
Ion Ratio Lower Upper
74 100
45 90.3 18.7 168.7





#15

Acetone

Concen: 14.694 ug/l

RT: 2.386 min Scan# 214

Delta R.T. -0.006 min

Lab File: VX042300.D

Acq: 12 Jul 2024 14:16

Instrument :

MSVOA_X

ClientSampleId :

240710079-02

Tgt Ion: 58 Resp: 4019

Ion Ratio Lower Upper

58 100

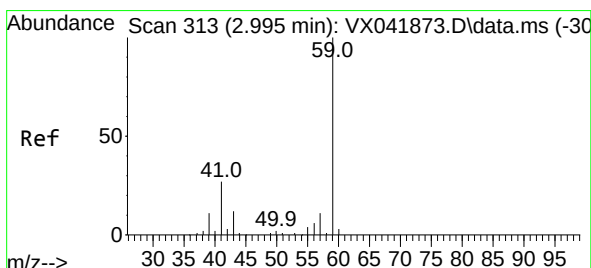
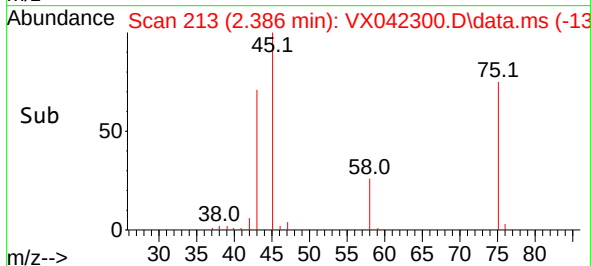
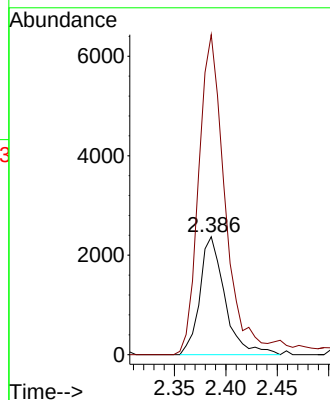
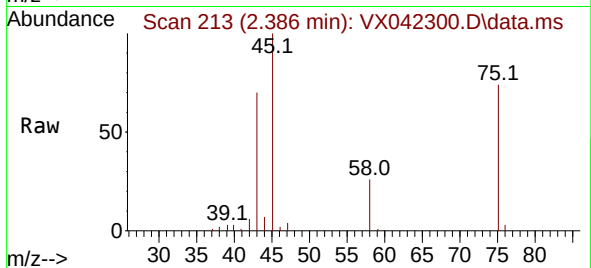
43 268.5 243.4 365.2

Manual Integrations

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Reviewed By :John Carlone 07/15/2024

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#23

tert-Butyl Alcohol

Concen: 387.035 ug/l

RT: 2.977 min Scan# 310

Delta R.T. -0.018 min

Lab File: VX042300.D

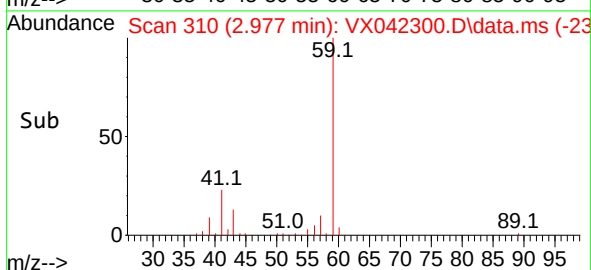
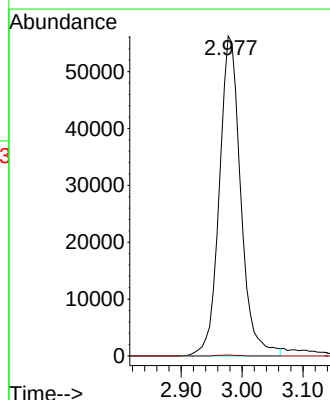
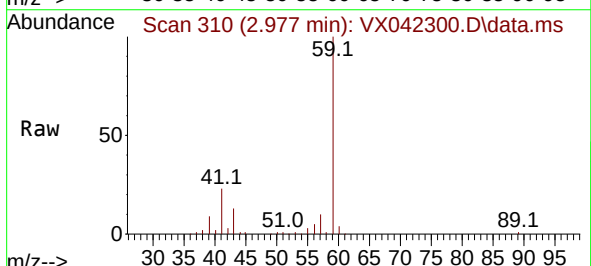
Acq: 12 Jul 2024 14:16

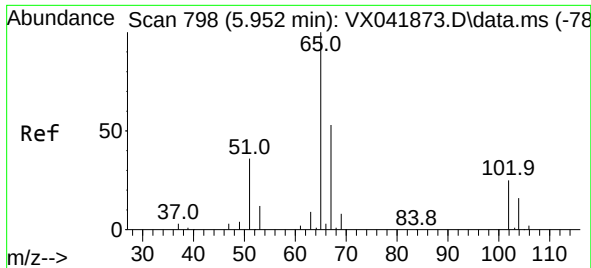
Tgt Ion: 59 Resp: 137576

Ion Ratio Lower Upper

59 100

52 0.3 0.0 0.0#





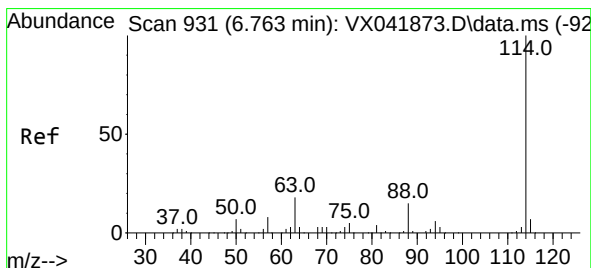
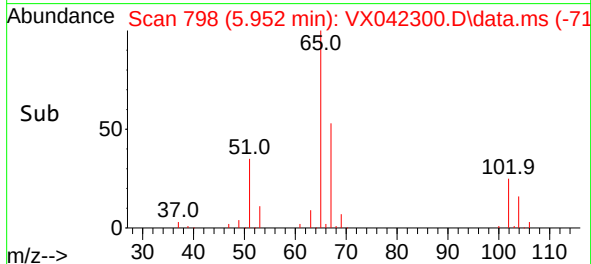
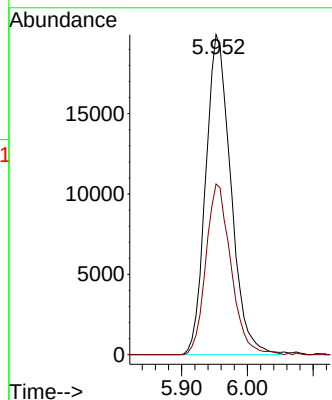
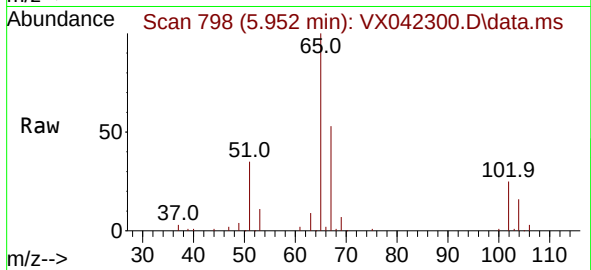
#27
1,2-Dichloroethane-d4
Concen: 29.758 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Instrument :
MSVOA_X
ClientSampleId :
240710079-02

Tgt Ion: 65 Resp: 5296
Ion Ratio Lower Upper
65 100
67 53.2 43.4 65.0

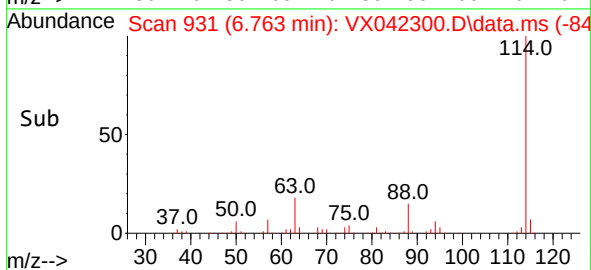
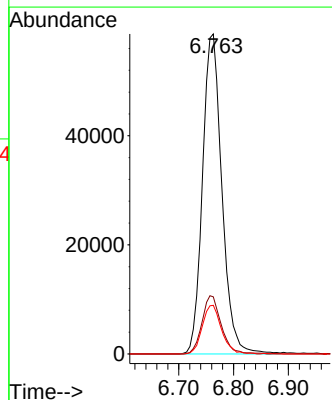
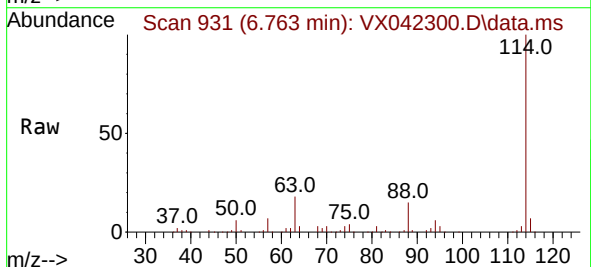
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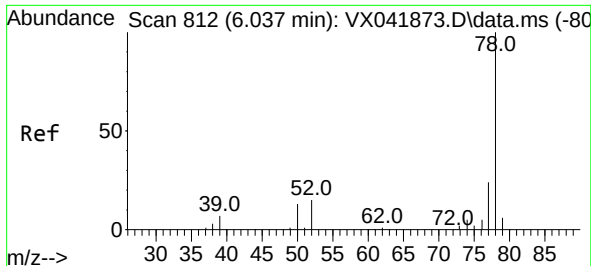
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

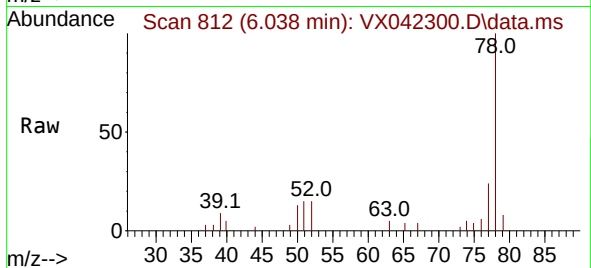
Tgt Ion:114 Resp: 144115
Ion Ratio Lower Upper
114 100
63 17.8 14.6 21.8
88 15.0 11.8 17.8





#34
Benzene
Concen: 2.195 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

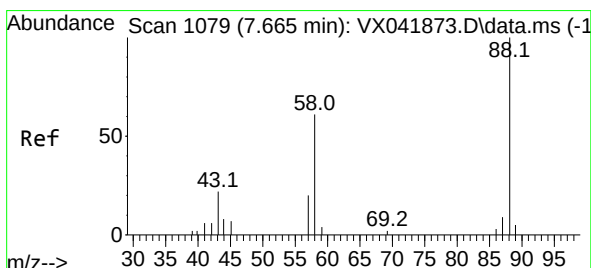
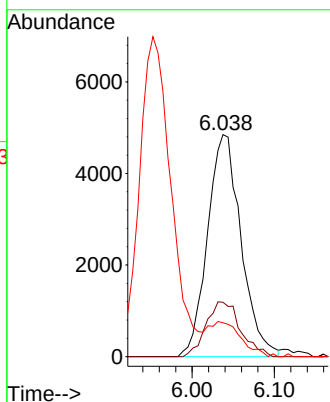
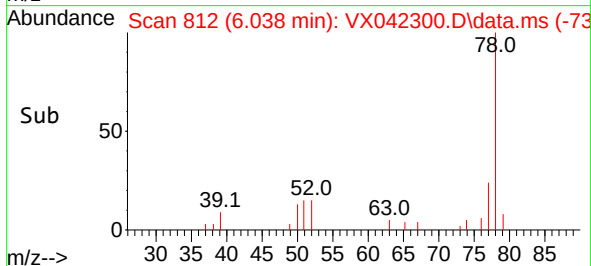
Instrument :
MSVOA_X
ClientSampleId :
240710079-02



Tgt Ion: 78 Resp: 13750
Ion Ratio Lower Upper
78 100
77 24.5 18.9 28.3
51 15.3 11.8 17.8

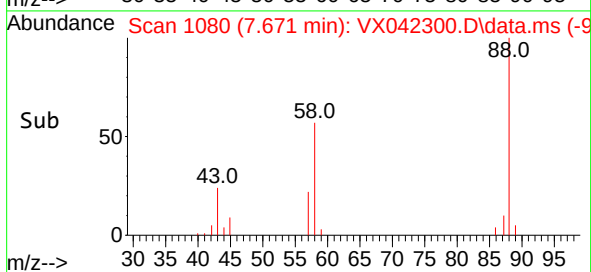
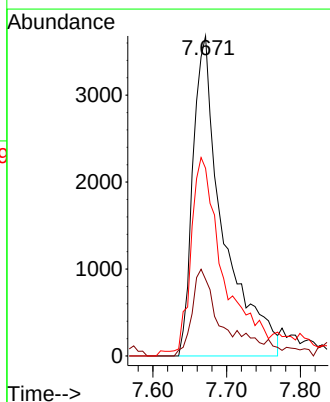
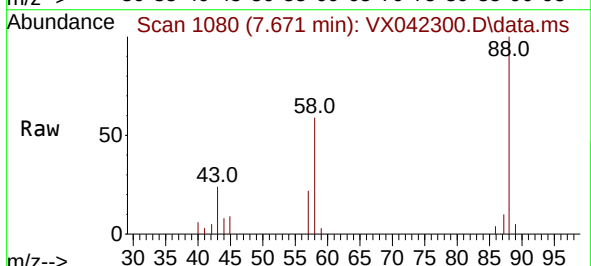
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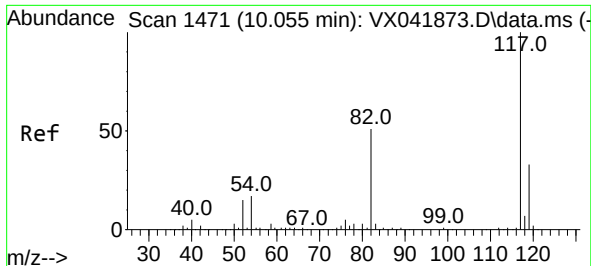
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#45
1,4-Dioxane
Concen: 242.616 ug/l m
RT: 7.671 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

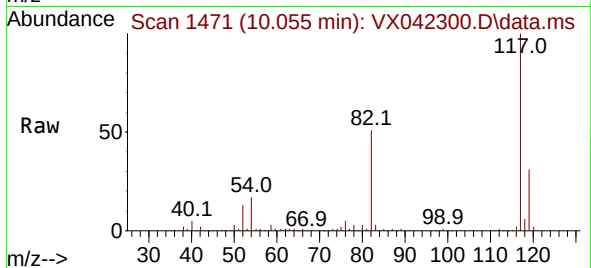
Tgt Ion: 88 Resp: 10438
Ion Ratio Lower Upper
88 100
43 21.4 23.2 34.8#
58 50.5 52.6 78.8#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

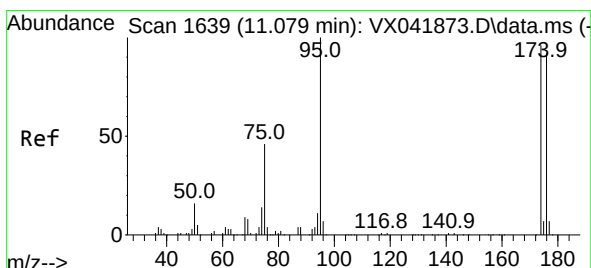
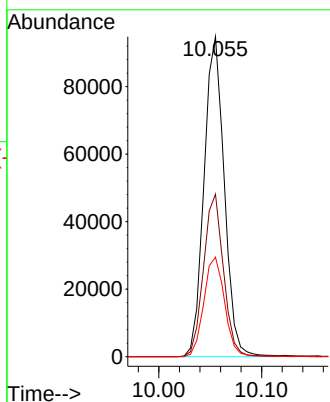
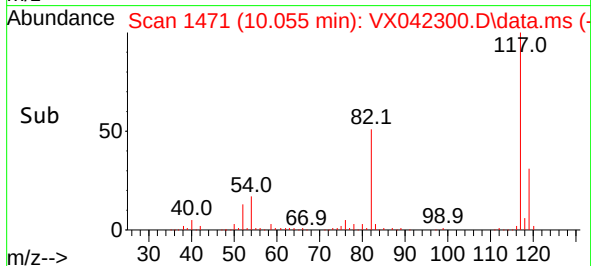
Instrument :
MSVOA_X
ClientSampleId :
240710079-02



Tgt Ion:117 Resp: 12989
Ion Ratio Lower Upper
117 100
82 50.1 41.1 61.7
119 31.9 26.1 39.1

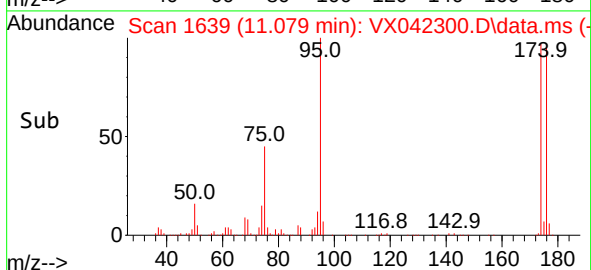
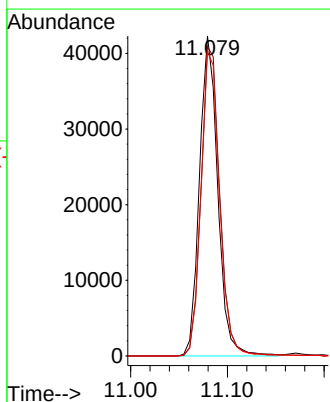
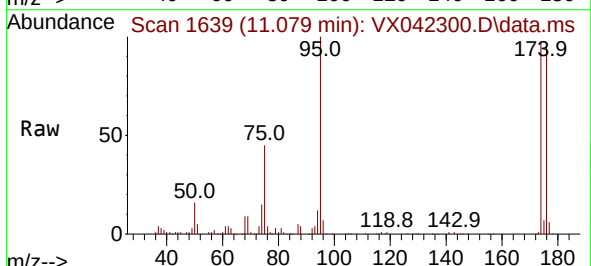
Manual Integrations
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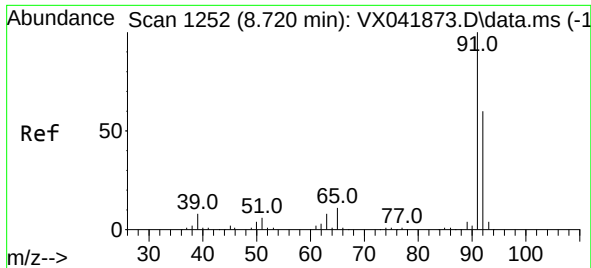
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#60
4-Bromofluorobenzene
Concen: 27.740 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

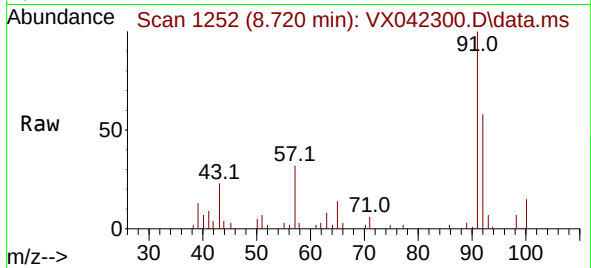
Tgt Ion: 95 Resp: 55776
Ion Ratio Lower Upper
95 100
174 99.4 78.9 118.3
176 96.2 77.1 115.7





#62
Toluene
Concen: 1.112 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

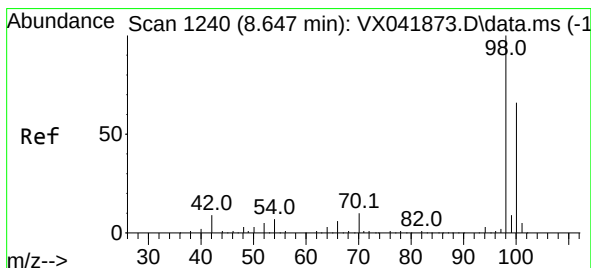
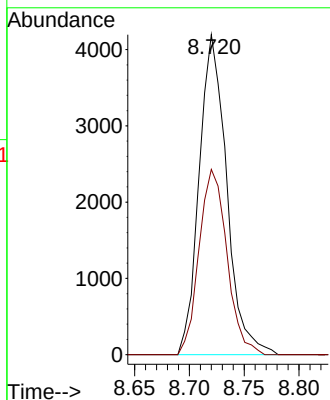
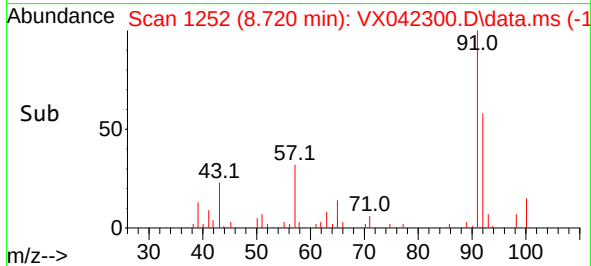
Instrument :
MSVOA_X
ClientSampleId :
240710079-02



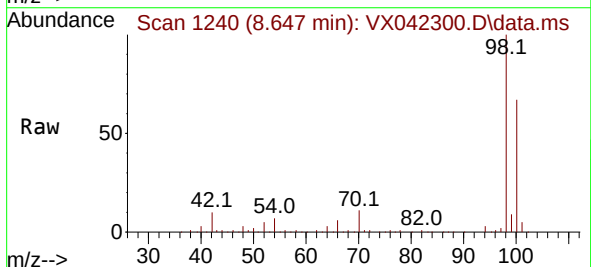
Tgt Ion: 91 Resp: 7312
Ion Ratio Lower Upper
91 100
92 58.8 47.4 71.2

Manual Integrations
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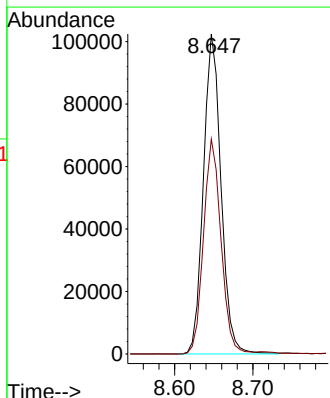
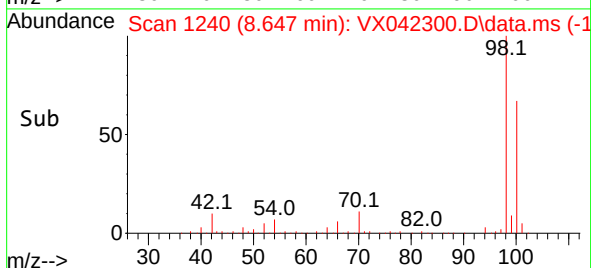
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024

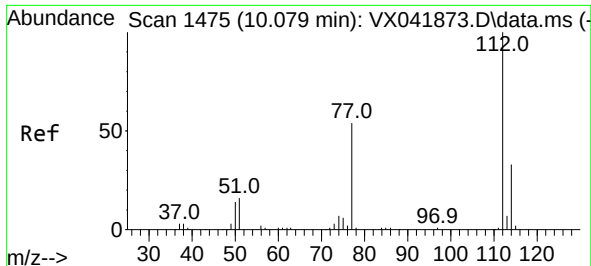


#63
Toluene-d8
Concen: 28.699 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16



Tgt Ion: 98 Resp: 159495
Ion Ratio Lower Upper
98 100
100 66.7 52.7 79.1





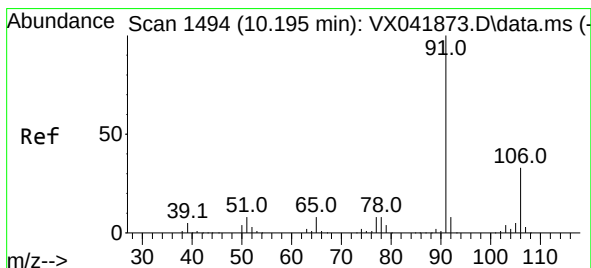
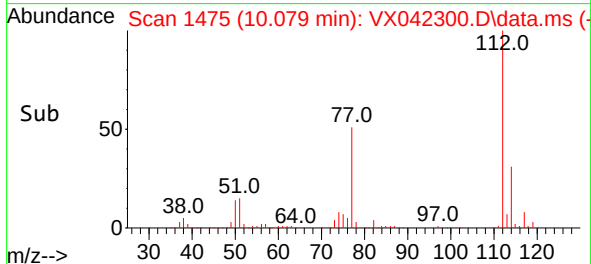
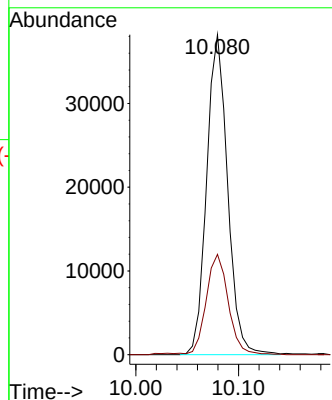
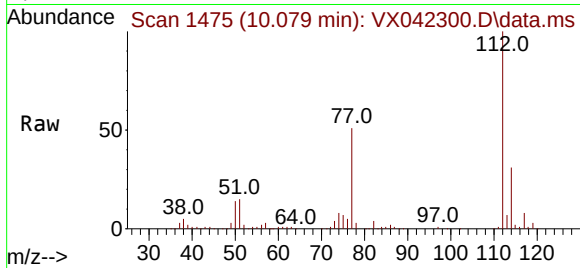
#64
Chlorobenzene
Concen: 12.086 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Instrument :
MSVOA_X
ClientSampleId :
240710079-02

Tgt Ion:112 Resp: 54099
Ion Ratio Lower Upper
112 100
114 31.2 26.2 39.4

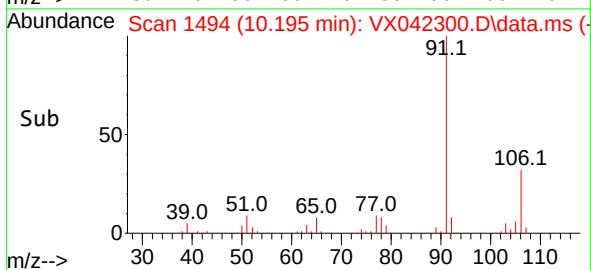
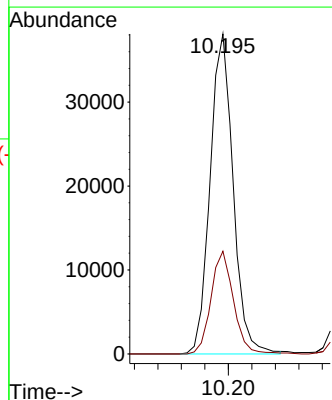
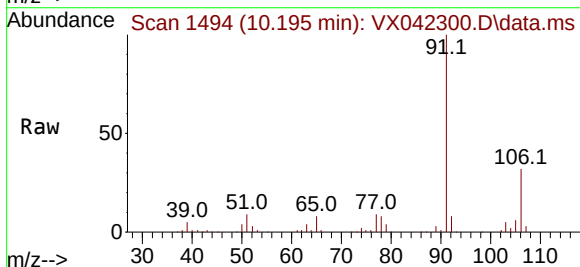
Manual Integrations
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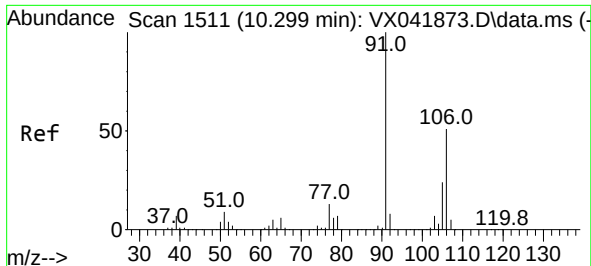
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#66
Ethyl Benzene
Concen: 7.228 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Tgt Ion: 91 Resp: 51940
Ion Ratio Lower Upper
91 100
106 32.1 26.4 39.6





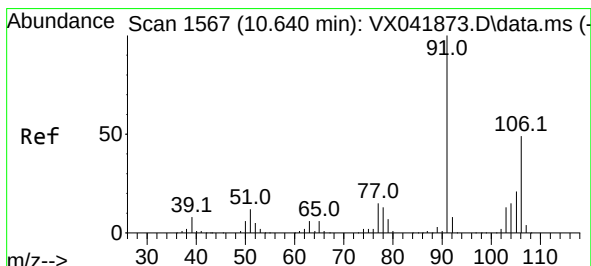
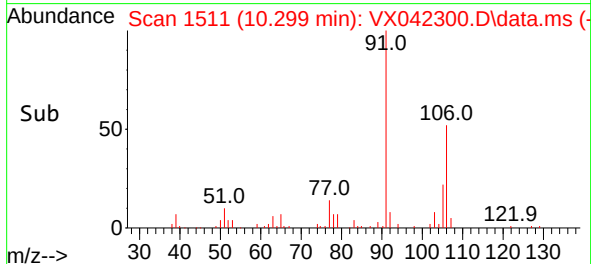
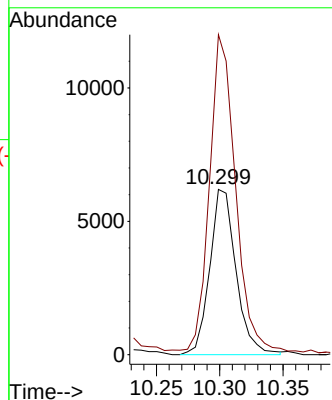
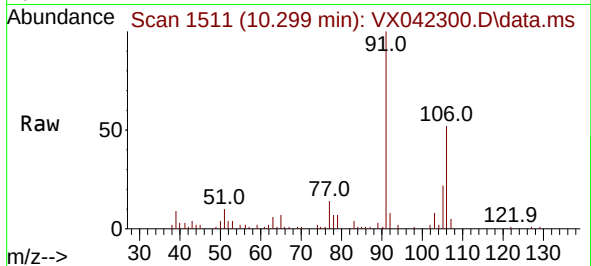
#67
m/p-Xylenes
Concen: 3.098 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Instrument :
MSVOA_X
ClientSampleId :
240710079-02

Tgt Ion:106 Resp: 895
Ion Ratio Lower Upper
106 100
91 192.2 157.0 235.6

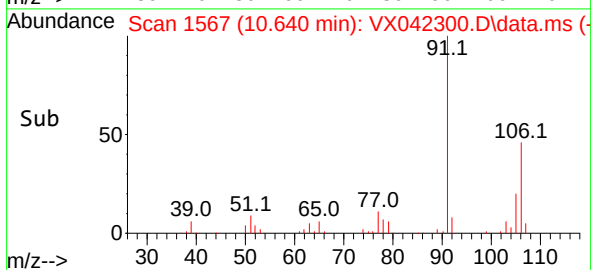
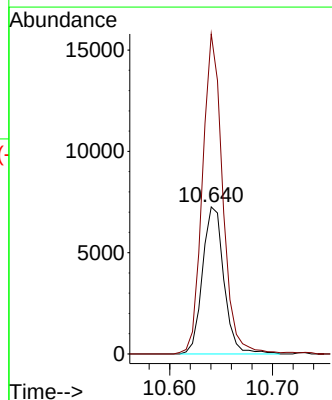
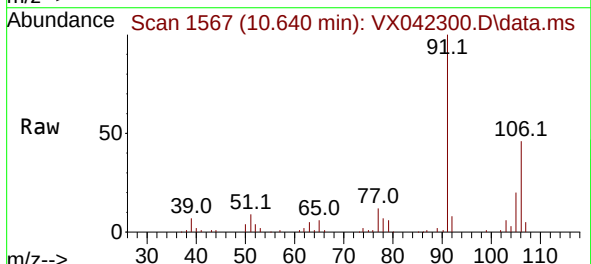
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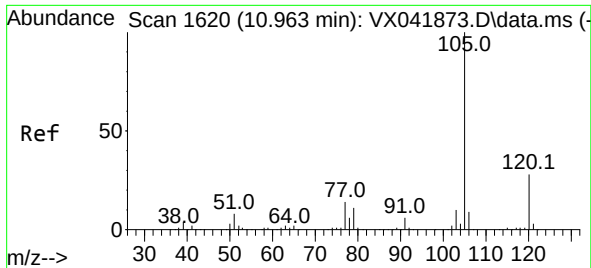
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#68
o-Xylene
Concen: 3.670 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Tgt Ion:106 Resp: 10577
Ion Ratio Lower Upper
106 100
91 204.6 103.2 309.6





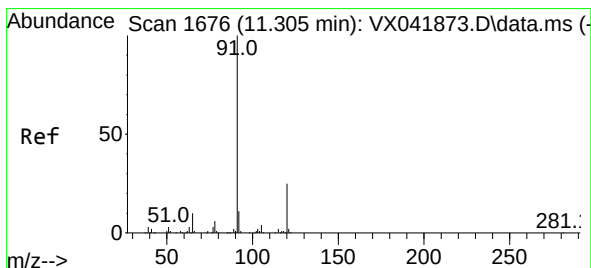
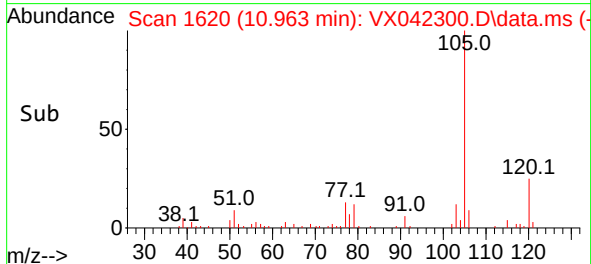
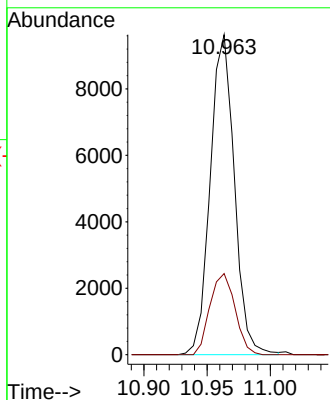
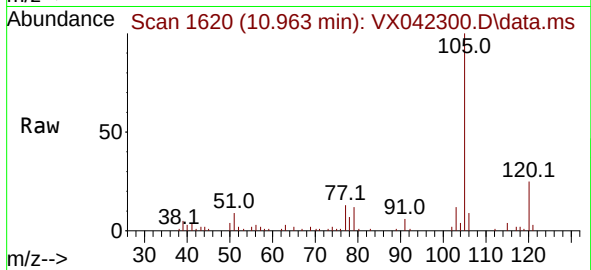
#70
Isopropylbenzene
Concen: 1.761 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Instrument :
MSVOA_X
ClientSampleId :
240710079-02

Tgt Ion:105 Resp: 12758
Ion Ratio Lower Upper
105 100
120 26.4 19.2 35.6

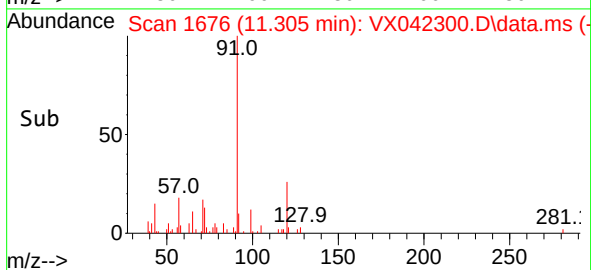
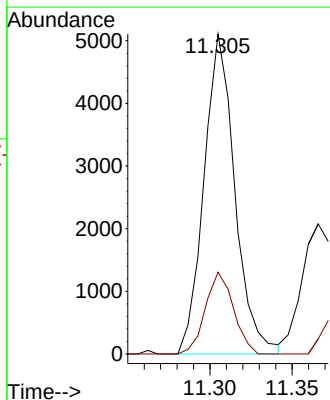
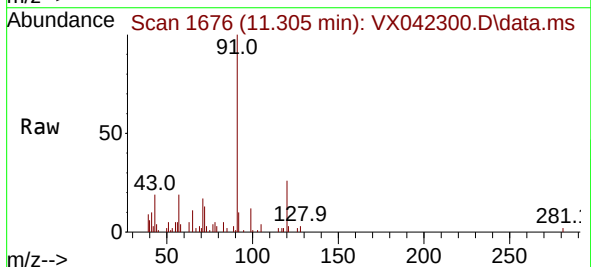
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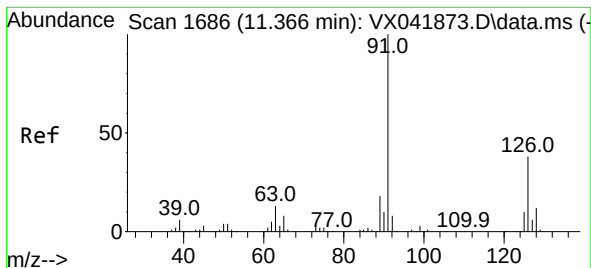
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#74
n-propylbenzene
Concen: 0.838 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Tgt Ion: 91 Resp: 6668
Ion Ratio Lower Upper
91 100
120 23.2 0.0 49.6





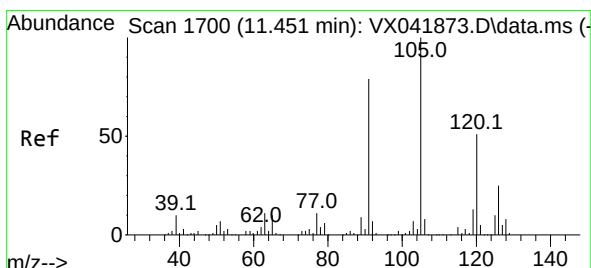
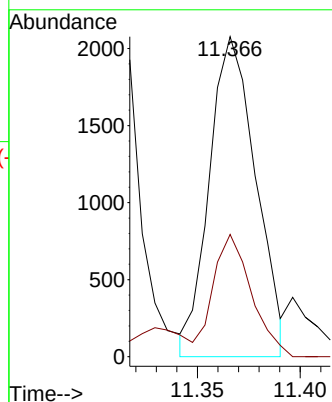
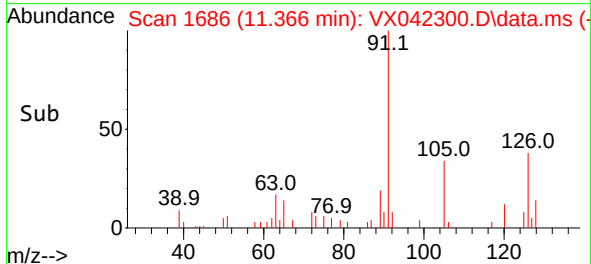
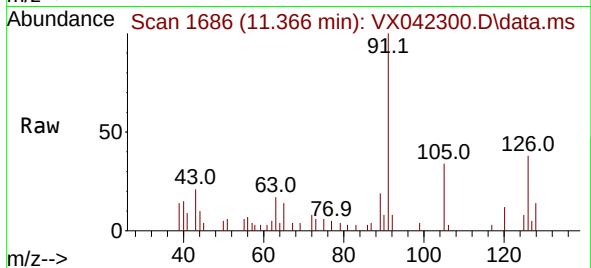
#75
2-Chlorotoluene
Concen: 0.647 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Instrument :
MSVOA_X
ClientSampleId :
240710079-02

Tgt Ion: 91 Resp: 3268
Ion Ratio Lower Upper
91 100
126 31.4 0.0 72.6

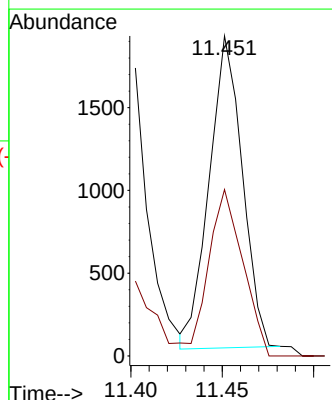
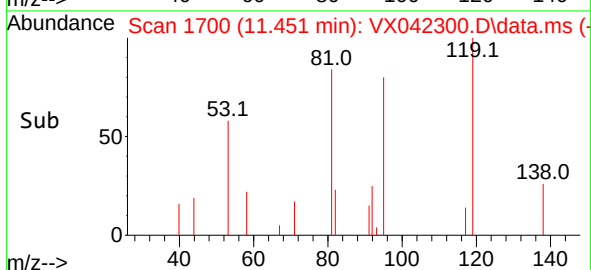
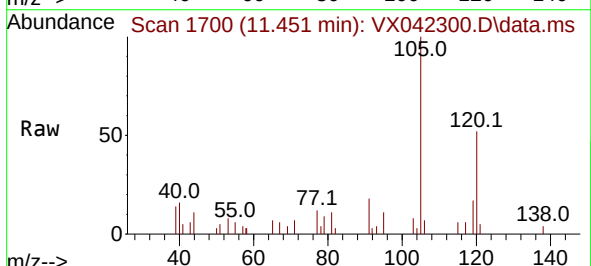
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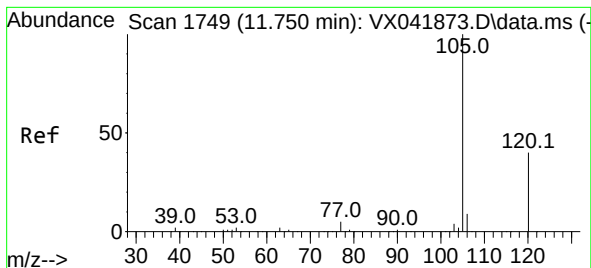
Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#76
1,3,5-Trimethylbenzene
Concen: 0.391 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Tgt Ion:105 Resp: 2374
Ion Ratio Lower Upper
105 100
120 54.1 0.0 103.0





#80

1,2,4-Trimethylbenzene

Concen: 2.392 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX042300.D

Acq: 12 Jul 2024 14:16

Instrument :

MSVOA_X

ClientSampleId :

240710079-02

Tgt Ion:105 Resp: 14509

Ion Ratio Lower Upper

105 100

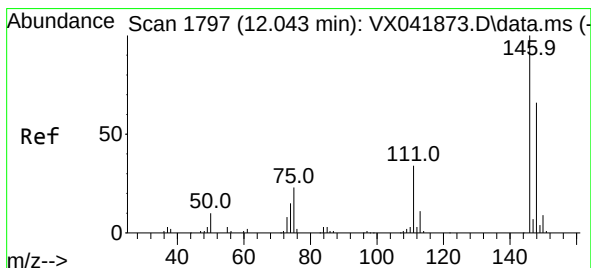
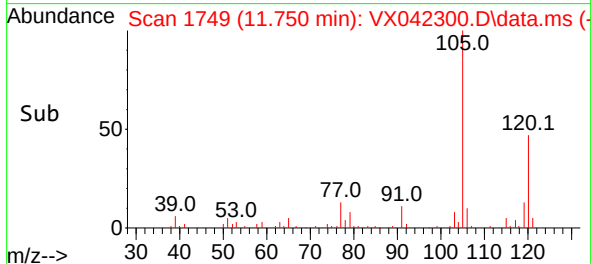
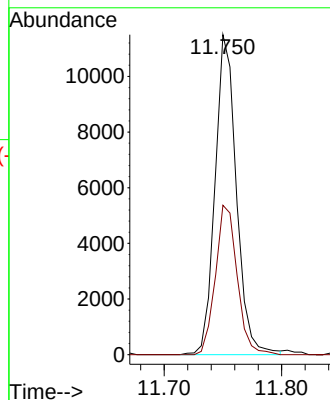
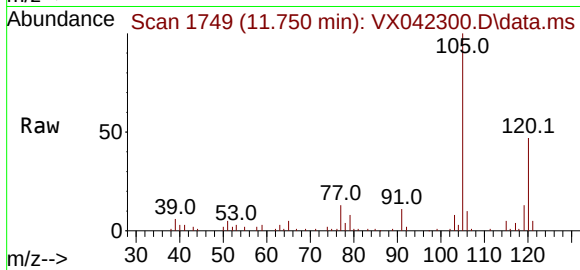
120 47.7 0.0 96.2

Manual Integrations

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Reviewed By :John Carlone 07/15/2024

Supervised By :Mahesh Dadoda 07/15/2024



#84

1,4-Dichlorobenzene

Concen: 10.546 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX042300.D

Acq: 12 Jul 2024 14:16

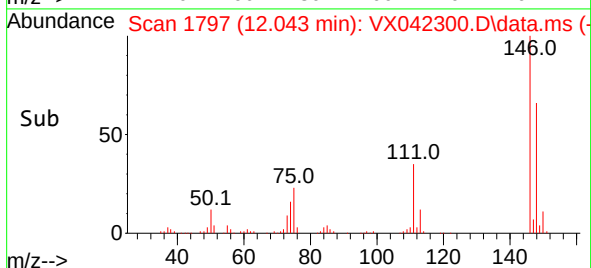
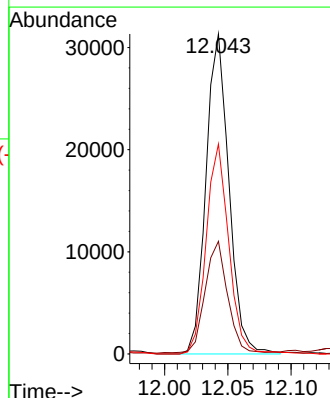
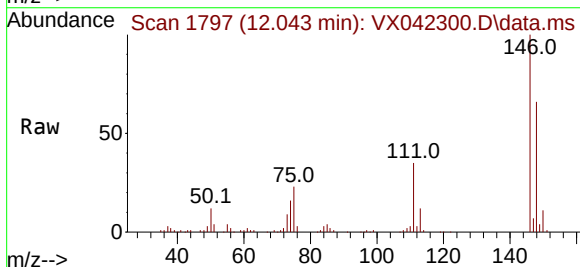
Tgt Ion:146 Resp: 39562

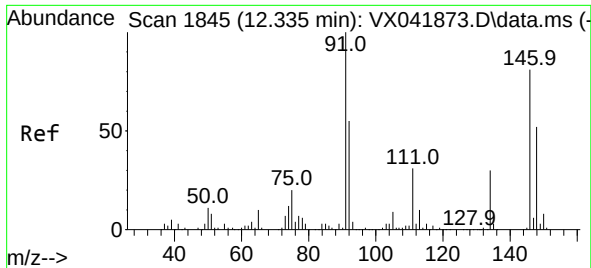
Ion Ratio Lower Upper

146 100

111 34.8 17.4 52.3

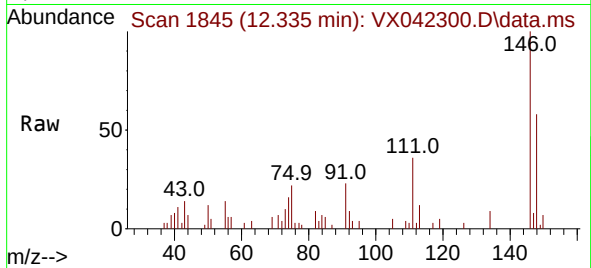
148 64.1 32.3 96.9





#87
1,2-Dichlorobenzene
Concen: 0.802 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

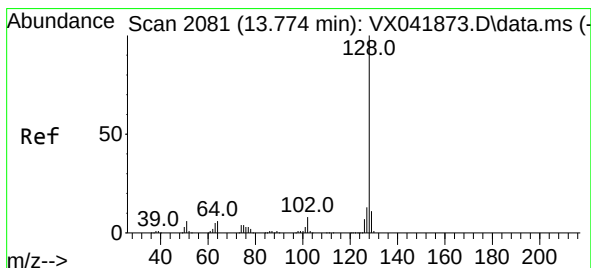
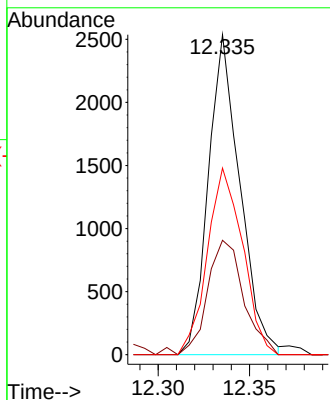
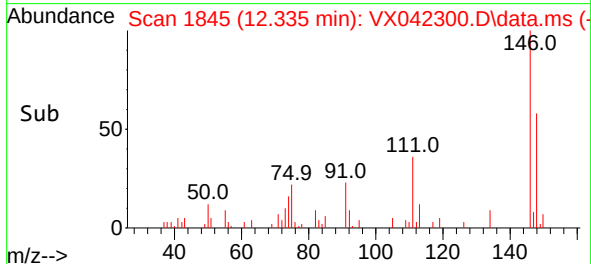
Instrument :
MSVOA_X
ClientSampleId :
240710079-02



Tgt Ion:146 Resp: 305
Ion Ratio Lower Upper
146 100
111 40.7 19.1 57.3
148 64.9 32.4 97.0

Manual Integrations
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Reviewed By :John Carlone 07/15/2024
Supervised By :Mahesh Dadoda 07/15/2024



#91
Naphthalene
Concen: 10.144 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX042300.D
Acq: 12 Jul 2024 14:16

Tgt Ion:128 Resp: 79078
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.2 8.7 13.1

