

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
 Data File : VU057792.D
 Acq On : 02 Feb 2024 13:52
 Operator : MD/SY
 Sample : P1174-07DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/14/2024
 Supervised By :Mahesh Dadoda 02/14/2024

Quant Time: Feb 03 05:55:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 02 00:27:55 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.113	96	41542	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	14552	0.925	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13206	0.932	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.602	62	102293	7.559	ug/l	100
9) 1,1-Dichloroethene	2.576	96	33414	3.236	ug/l	93
15) Methylene Chloride	3.039	84	28182	2.285	ug/l	99
16) trans-1,2-Dichloroethene	3.351	96	32845	2.914	ug/l	96
22) cis-1,2-Dichloroethene	4.663	96	27443	2.223	ug/l	91
28) 1,1,1-Trichloroethane	5.309	97	56982	2.852	ug/l	100
30) Carbon Tetrachloride	5.518	117	37843	2.199	ug/l	94
35) Benzene	5.769	78	88134	1.894	ug/l	99
36) 1,2-Dichloroethane	5.795	62	8247	0.608	ug/l	# 90
37) Trichloroethene	6.537	130	20440	1.654	ug/l	96
38) 1,2-Dichloropropane	6.785	63	38529	3.193	ug/l	99
49) Toluene	7.968	92	17272	0.608	ug/l	99
52) 1,1,2-Trichloroethane	8.396	97	15546	2.033	ug/l	96
58) Tetrachloroethene	8.550	164	4521	0.415	ug/l	94
59) Chlorobenzene	9.444	112	70840	2.254	ug/l	100
63) Ethyl Benzene	9.566	91	198306	3.548	ug/l	100
64) m/p-Xylenes	9.692	106	64937	3.199	ug/l	97
65) o-Xylene	10.097	106	63679	3.169	ug/l	94
66) Styrene	10.113	104	57305	1.911	ug/l	# 89
83) 1,4-Dichlorobenzene	11.836	146	14046	0.614	ug/l	98
85) 1,2-Dichlorobenzene	12.209	146	64906	3.052	ug/l	97
87) 1,2,4-Trichlorobenzene	13.839	180	30897	2.432	ug/l	97
89) Naphthalene	14.093	128	16500	0.841	ug/l	97
90) 1,2,3-Trichlorobenzene	14.328	180	4612	0.436	ug/l	97

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

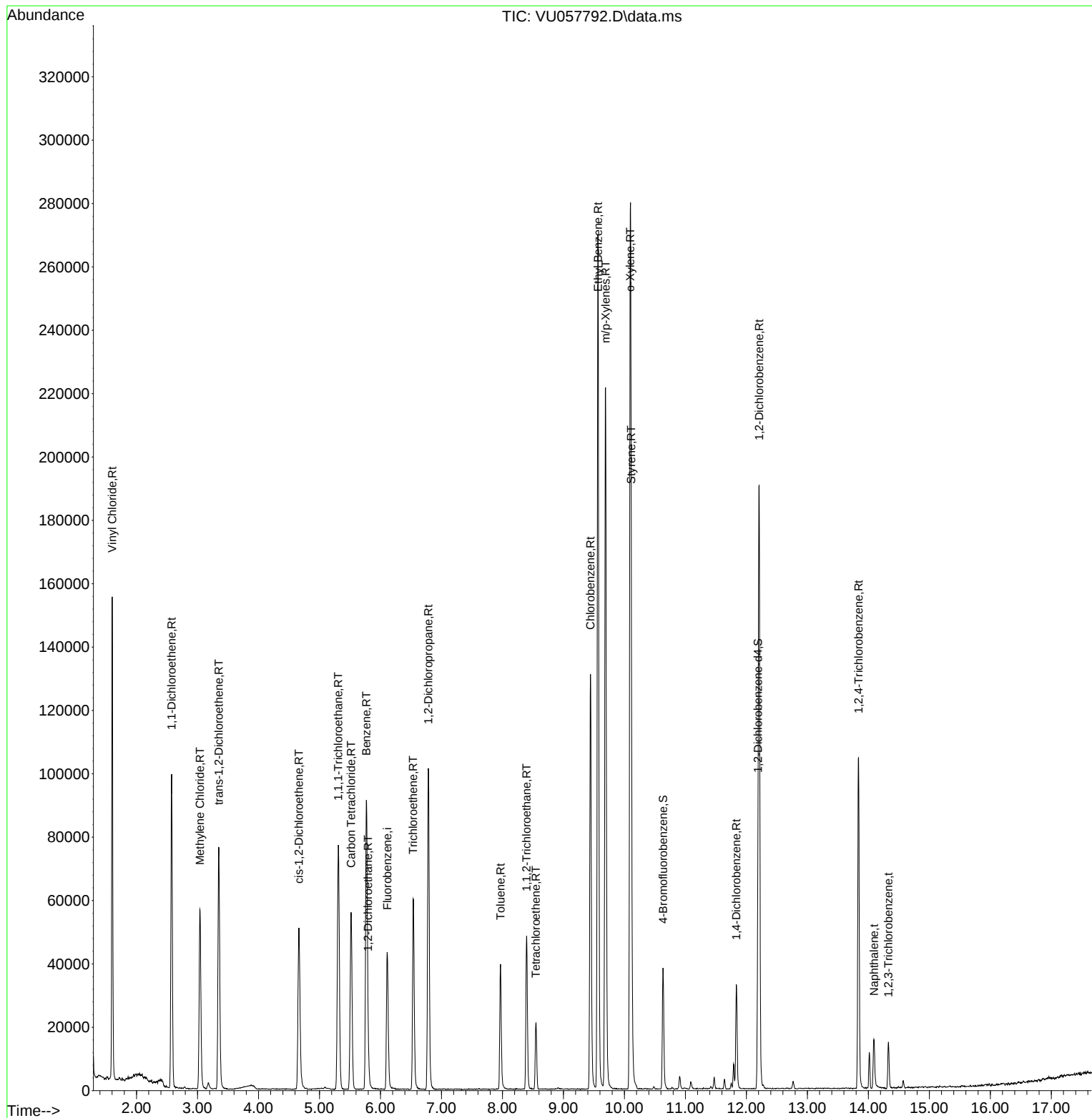
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
Data File : VU057792.D
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Operator : MD/SY
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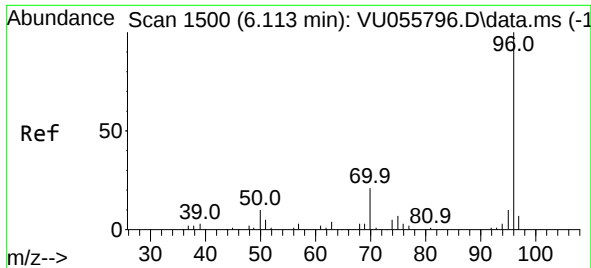
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Manual Integrations
APPROVED

Reviewed By : John Carlone 02/14/2024
Supervised By : Mahesh Dadoda 02/14/2024

Quant Time: Feb 03 05:55:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Feb 02 00:27:55 2024
Response via : Initial Calibration





#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

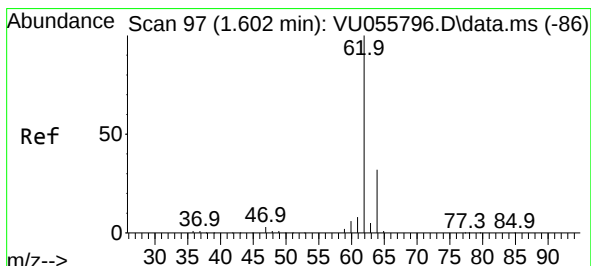
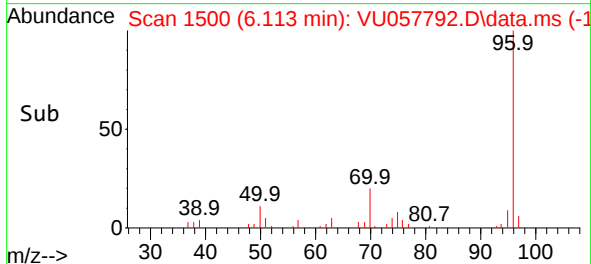
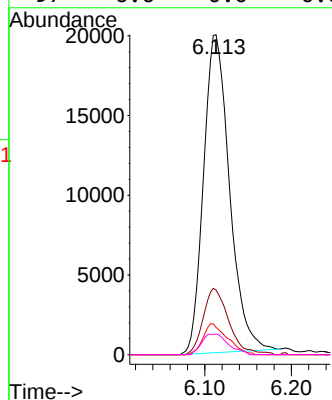
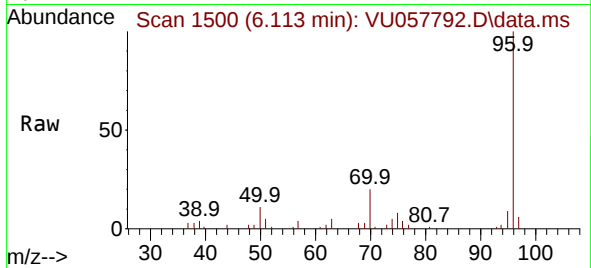
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Tgt Ion: 96 Resp: 4154

Ion	Ratio	Lower	Upper
96	100		
70	20.5	16.5	24.7
95	9.1	7.4	11.0
97	6.6	0.0	0.0

Manual Integrations
APPROVED

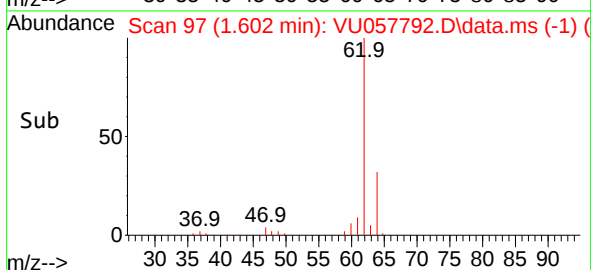
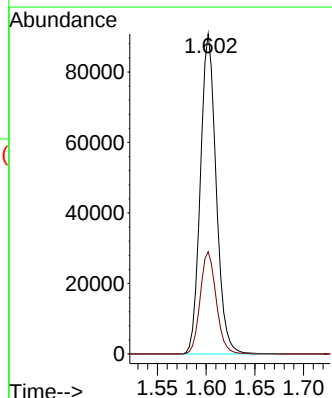
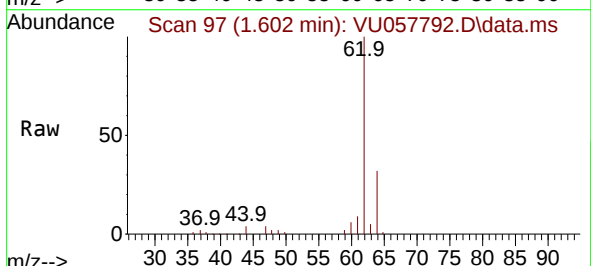
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

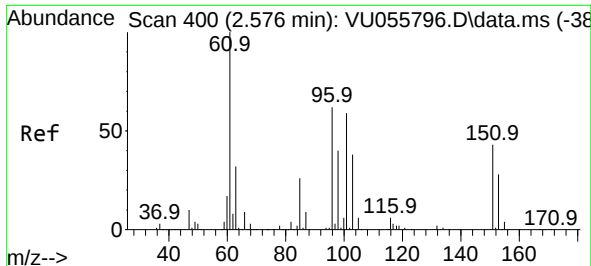


#4
Vinyl Chloride
Concen: 7.559 ug/l
RT: 1.602 min Scan# 97
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion: 62 Resp: 102293

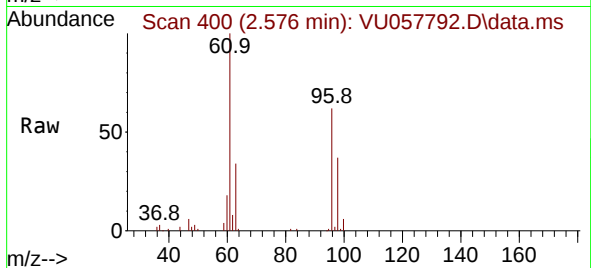
Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.2





#9
1,1-Dichloroethene
Concen: 3.236 ug/l
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

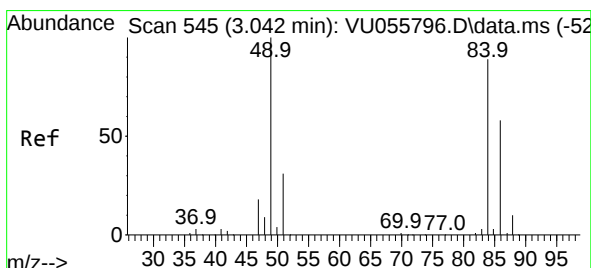
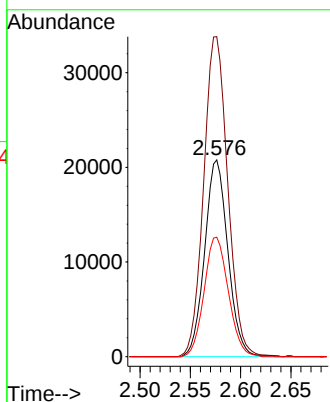
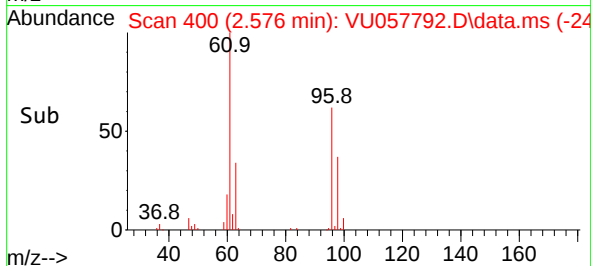
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



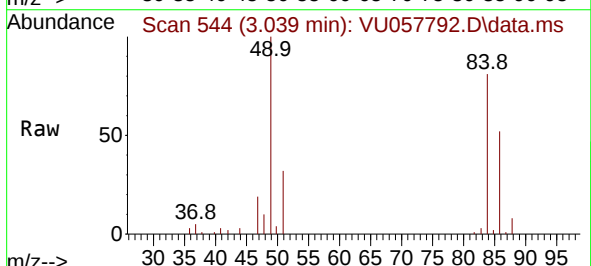
Tgt Ion: 96 Resp: 33414
Ion Ratio Lower Upper
96 100
61 162.6 0.0 521.4
98 60.7 0.0 125.8

Manual Integrations
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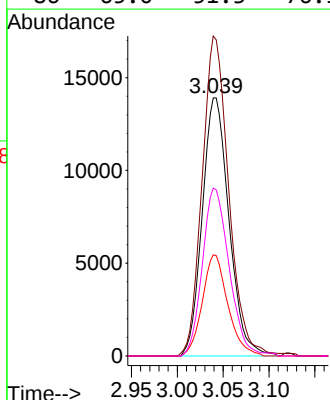
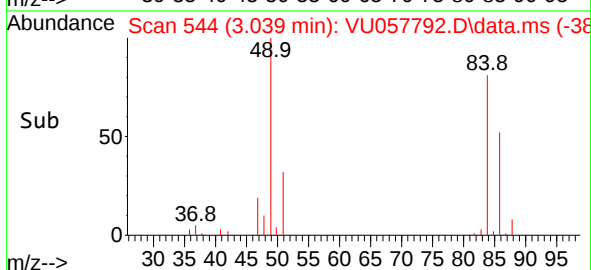
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

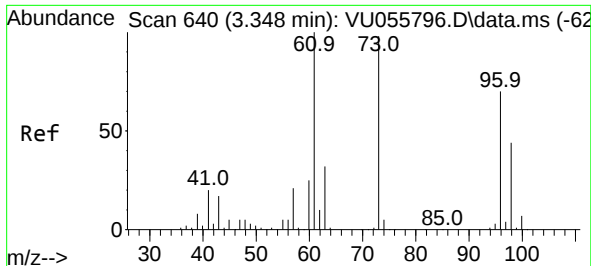


#15
Methylene Chloride
Concen: 2.285 ug/l
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52



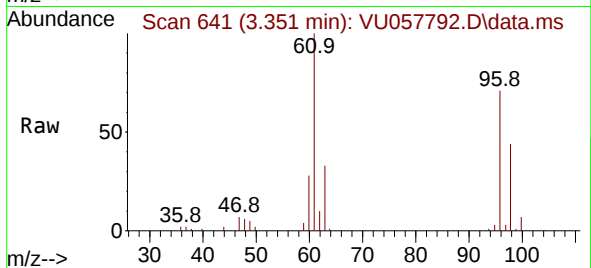
Tgt Ion: 84 Resp: 28182
Ion Ratio Lower Upper
84 100
49 124.0 98.9 148.3
51 39.2 0.0 75.4
86 65.0 51.3 76.9





#16
trans-1,2-Dichloroethene
Concen: 2.914 ug/l
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

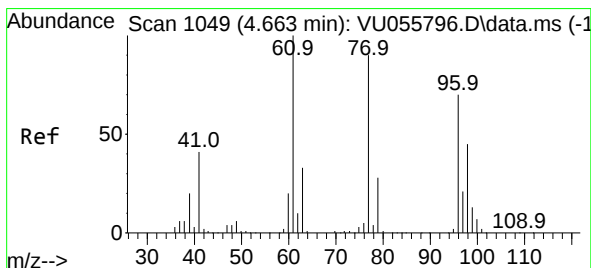
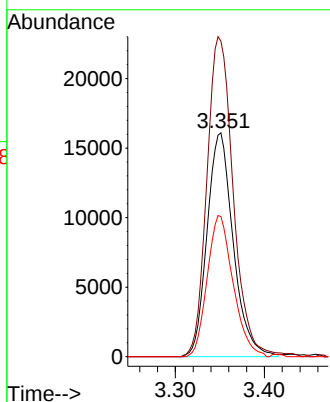
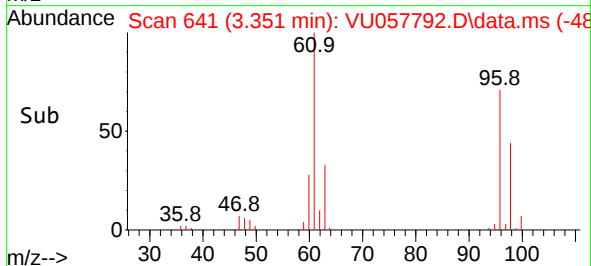
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion: 96 Resp: 3284
Ion Ratio Lower Upper
96 100
61 141.0 117.5 176.3
98 62.6 48.3 72.5

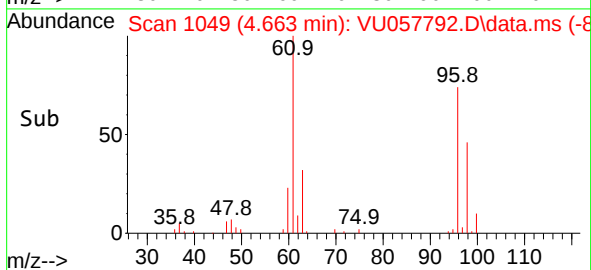
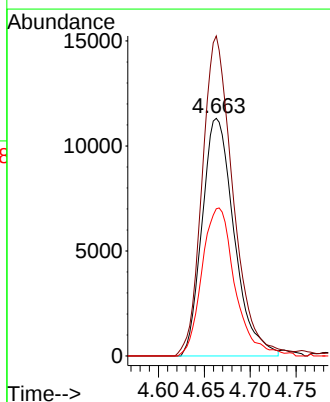
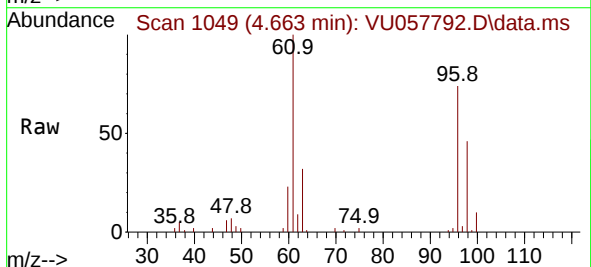
Manual Integrations
APPROVED

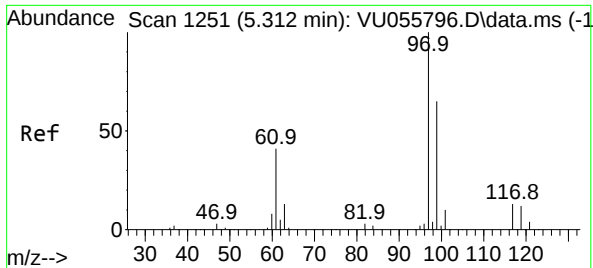
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#22
cis-1,2-Dichloroethene
Concen: 2.223 ug/l
RT: 4.663 min Scan# 1049
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

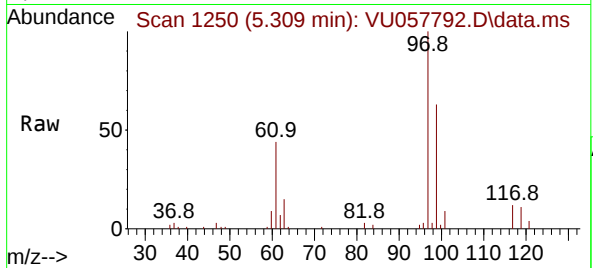
Tgt Ion: 96 Resp: 27443
Ion Ratio Lower Upper
96 100
61 130.2 0.0 365.8
98 64.2 32.0 96.0





#28
1,1,1-Trichloroethane
Concen: 2.852 ug/l
RT: 5.309 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

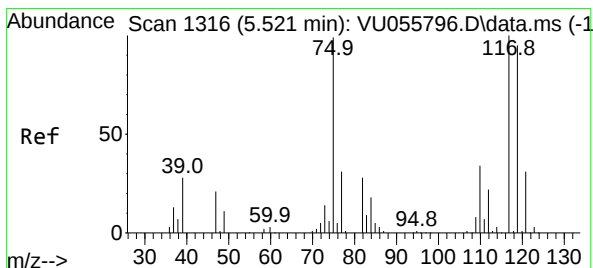
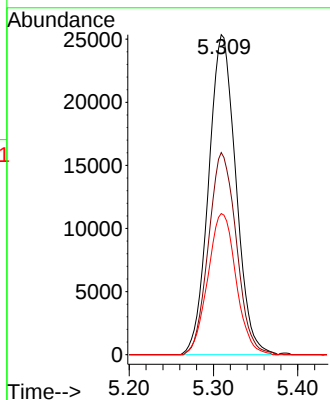
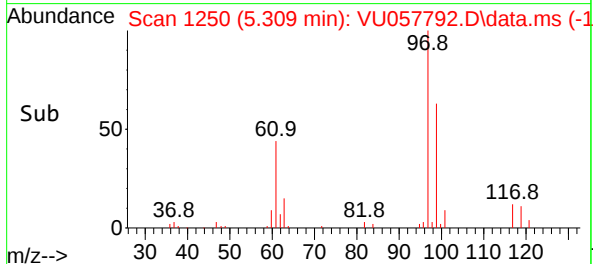
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion: 97 Resp: 5698
Ion Ratio Lower Upper
97 100
99 64.6 32.0 96.2
61 45.6 22.9 68.5

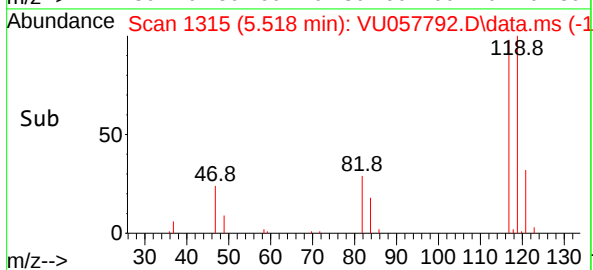
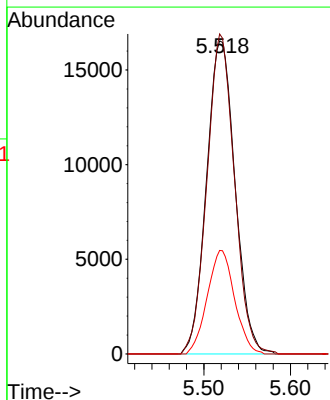
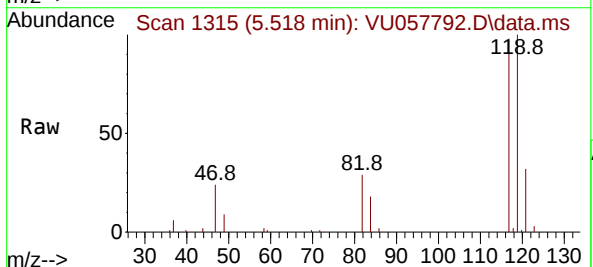
Manual Integrations
APPROVED

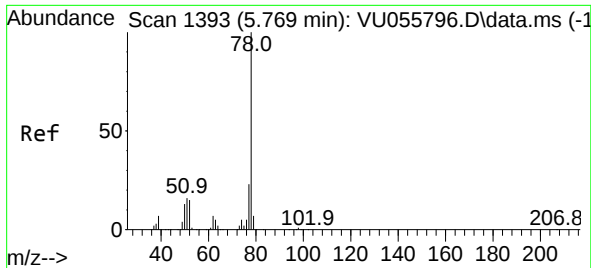
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#30
Carbon Tetrachloride
Concen: 2.199 ug/l
RT: 5.518 min Scan# 1315
Delta R.T. -0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

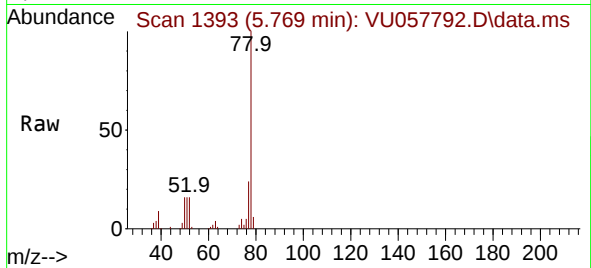
Tgt Ion:117 Resp: 37843
Ion Ratio Lower Upper
117 100
119 102.2 77.4 116.0
121 33.1 24.0 36.0





#35
Benzene
Concen: 1.894 ug/l
RT: 5.769 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

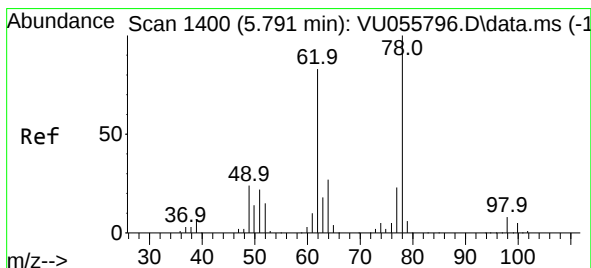
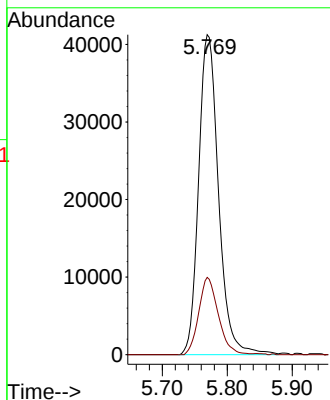
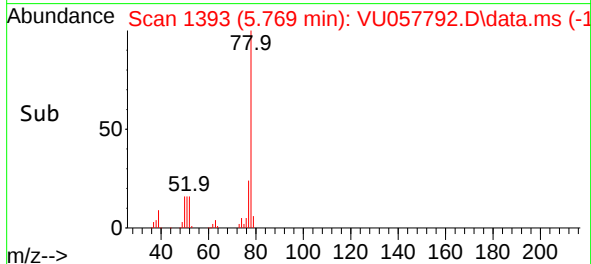
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion: 78 Resp: 88134
Ion Ratio Lower Upper
78 100
77 24.2 18.9 28.3

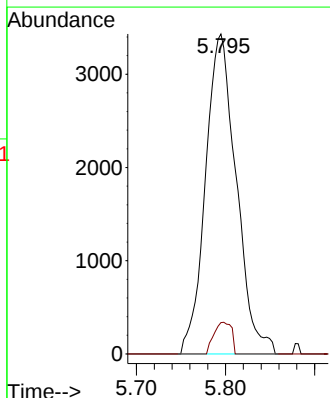
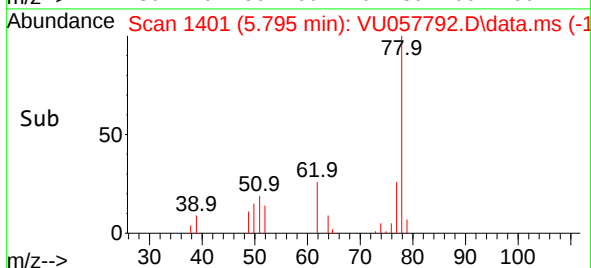
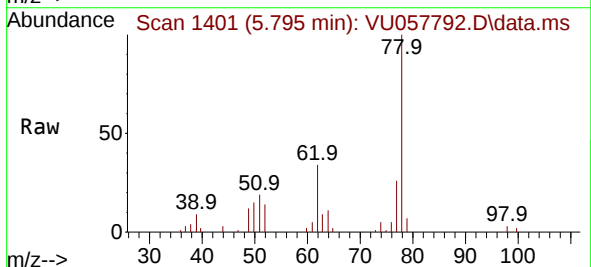
Manual Integrations
APPROVED

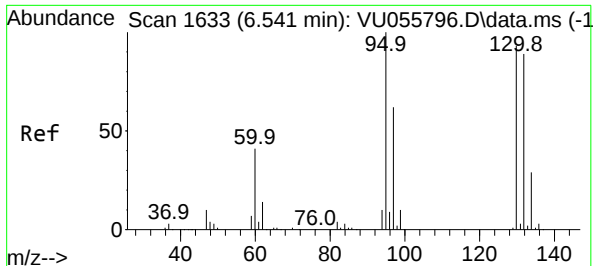
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#36
1,2-Dichloroethane
Concen: 0.608 ug/l
RT: 5.795 min Scan# 1401
Delta R.T. 0.004 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

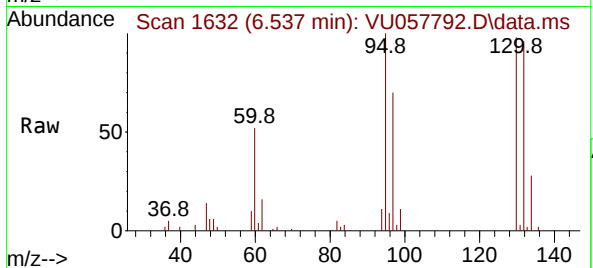
Tgt Ion: 62 Resp: 8247
Ion Ratio Lower Upper
62 100
98 5.7 7.3 10.9#





#37
Trichloroethene
Concen: 1.654 ug/l
RT: 6.537 min Scan# 1632
Delta R.T. -0.004 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

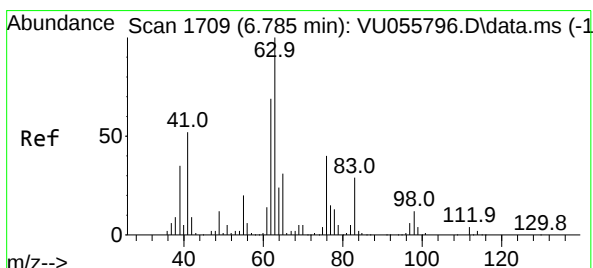
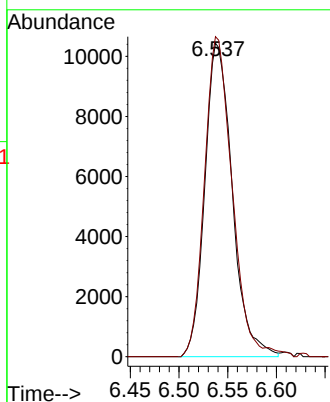
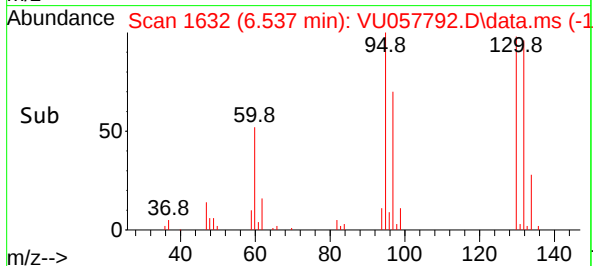
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



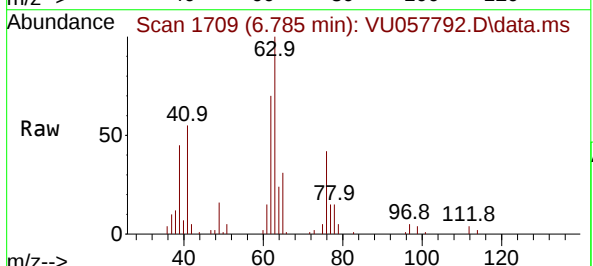
Tgt Ion:130 Resp: 20440
Ion Ratio Lower Upper
130 100
95 102.1 85.0 127.6

Manual Integrations
APPROVED

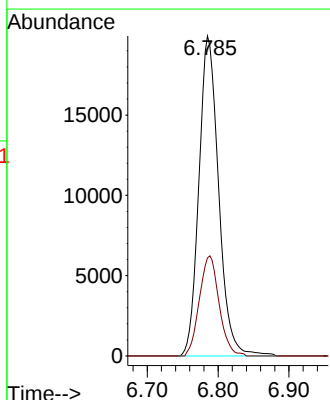
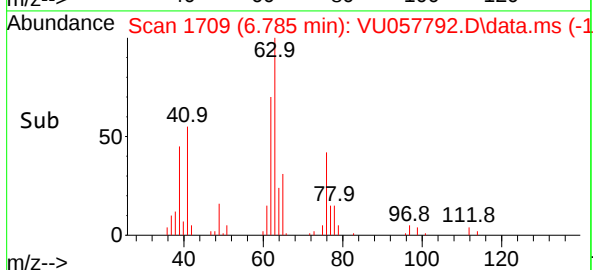
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

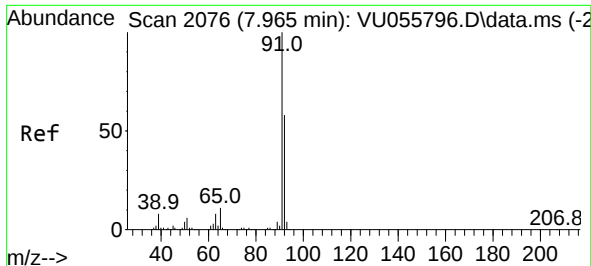


#38
1,2-Dichloropropane
Concen: 3.193 ug/l
RT: 6.785 min Scan# 1709
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52



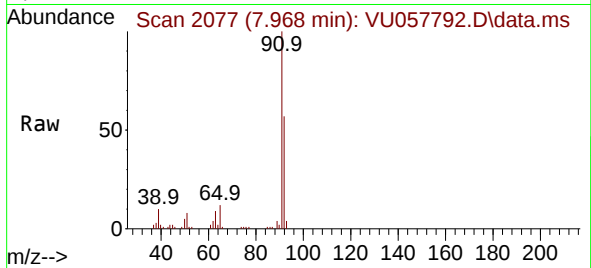
Tgt Ion: 63 Resp: 38529
Ion Ratio Lower Upper
63 100
65 30.7 24.9 37.3





#49
Toluene
Concen: 0.608 ug/l
RT: 7.968 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

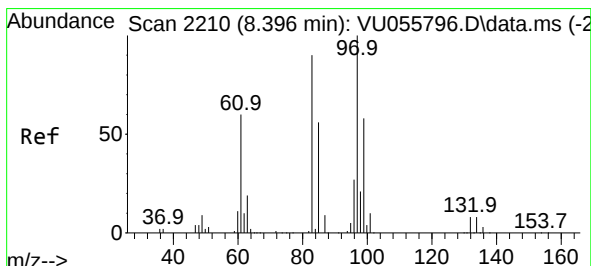
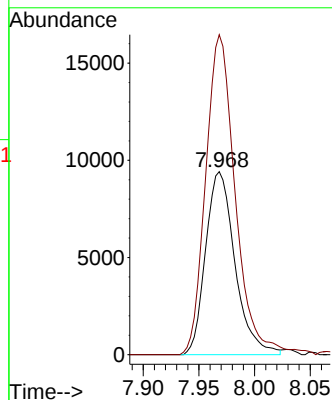
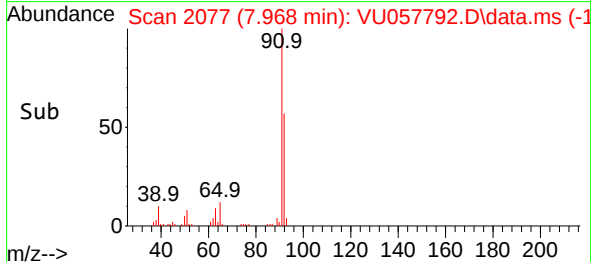
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion: 92 Resp: 1727
Ion Ratio Lower Upper
92 100
91 176.9 143.0 214.6

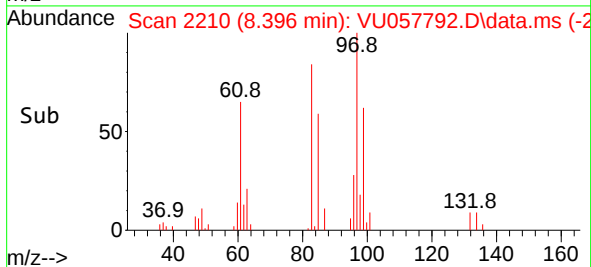
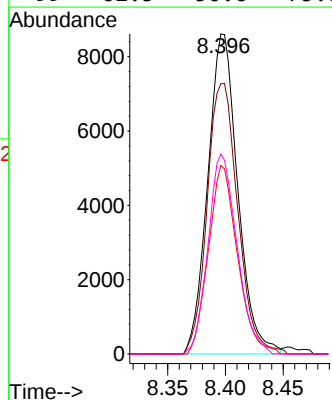
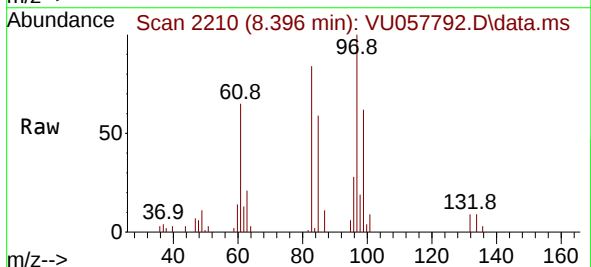
Manual Integrations
APPROVED

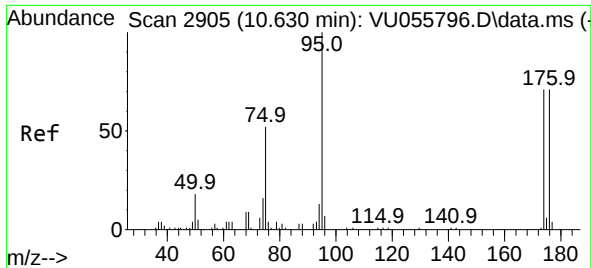
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#52
1,1,2-Trichloroethane
Concen: 2.033 ug/l
RT: 8.396 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

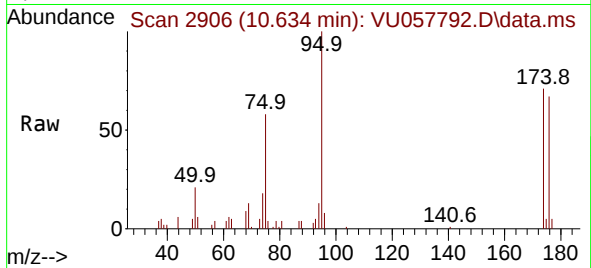
Tgt Ion: 97 Resp: 15546
Ion Ratio Lower Upper
97 100
83 84.5 71.8 107.8
85 58.9 45.2 67.8
99 62.5 50.6 75.8





#57
4-Bromofluorobenzene
Concen: 0.925 ug/l
RT: 10.634 min Scan# 2905
Delta R.T. 0.004 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

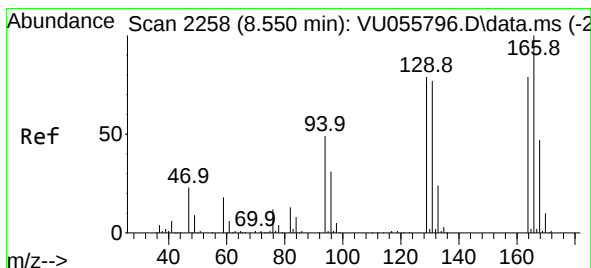
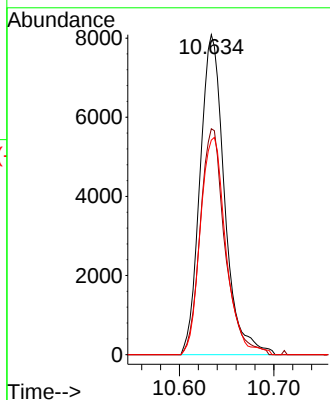
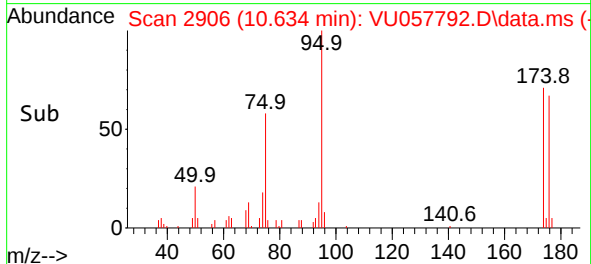
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion: 95 Resp: 14552
Ion Ratio Lower Upper
95 100
174 71.6 63.3 94.9
176 71.0 59.3 88.9

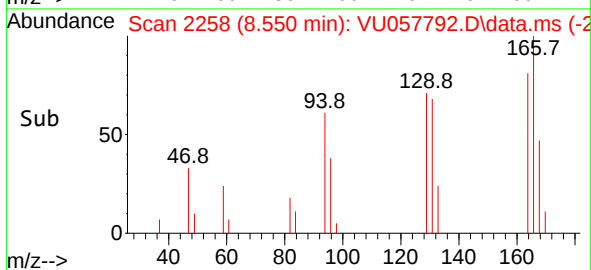
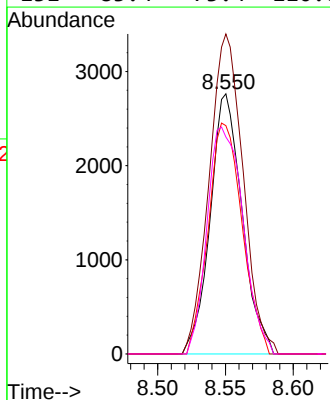
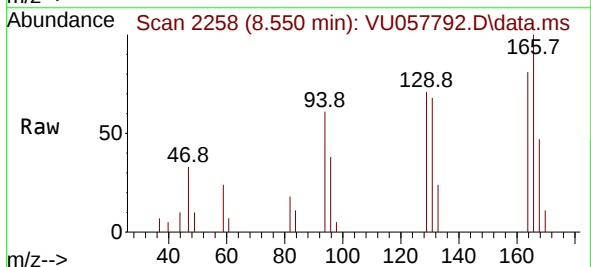
Manual Integrations
APPROVED

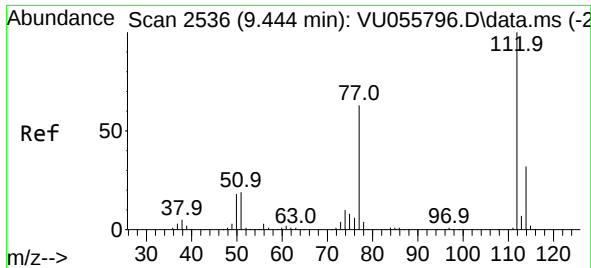
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#58
Tetrachloroethene
Concen: 0.415 ug/l
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion:164 Resp: 4521
Ion Ratio Lower Upper
164 100
166 123.0 99.6 149.4
129 87.7 78.6 117.8
131 83.4 73.4 110.0





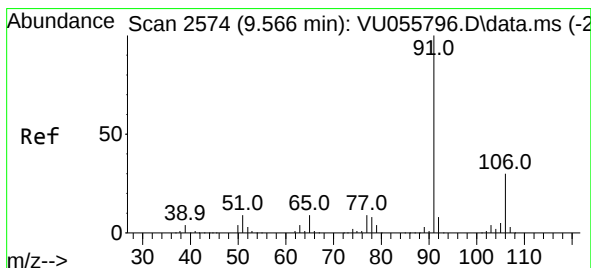
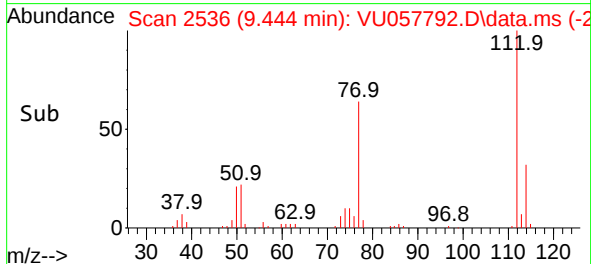
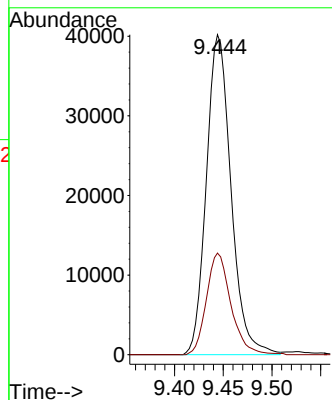
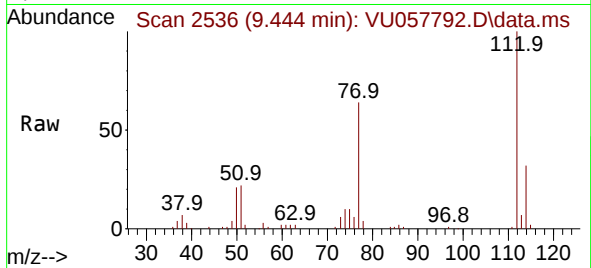
#59
Chlorobenzene
Concen: 2.254 ug/l
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Tgt Ion:112 Resp: 70840
Ion Ratio Lower Upper
112 100
114 31.8 25.6 38.4

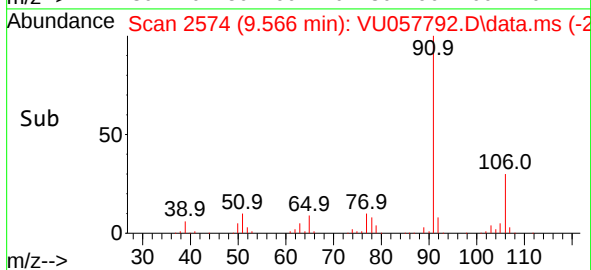
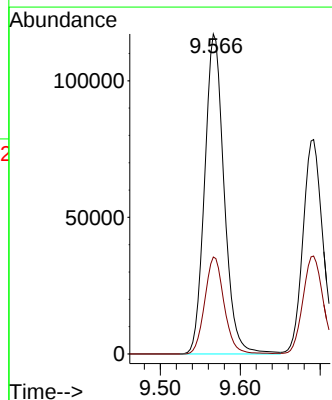
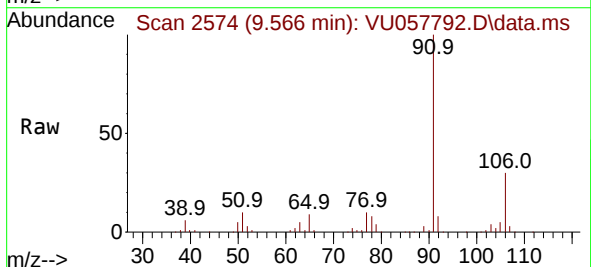
Manual Integrations
APPROVED

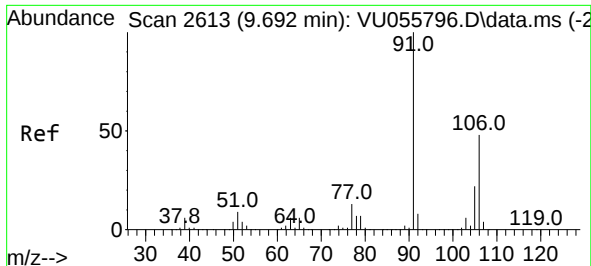
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#63
Ethyl Benzene
Concen: 3.548 ug/l
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

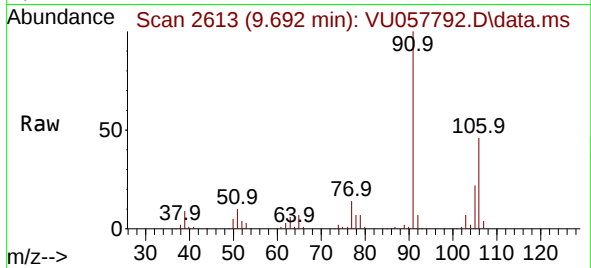
Tgt Ion: 91 Resp: 198306
Ion Ratio Lower Upper
91 100
106 30.3 24.2 36.2





#64
m/p-Xylenes
Concen: 3.199 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

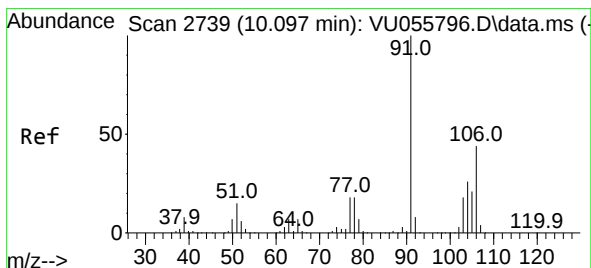
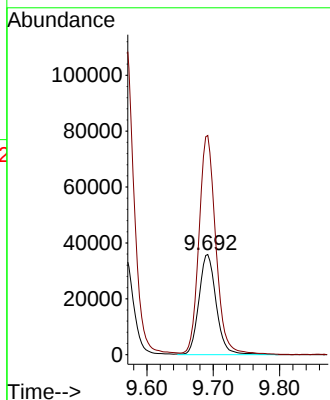
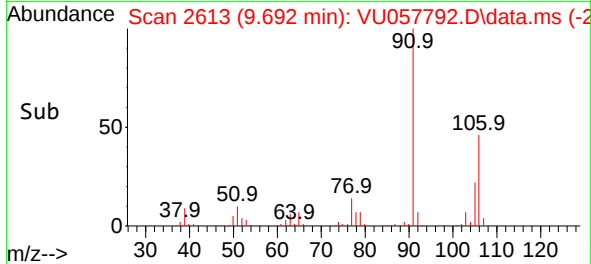
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



Tgt Ion:106 Resp: 6493
Ion Ratio Lower Upper
106 100
91 214.2 167.3 250.9

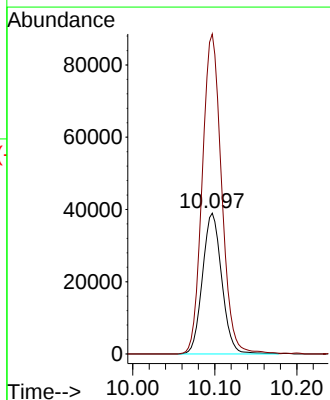
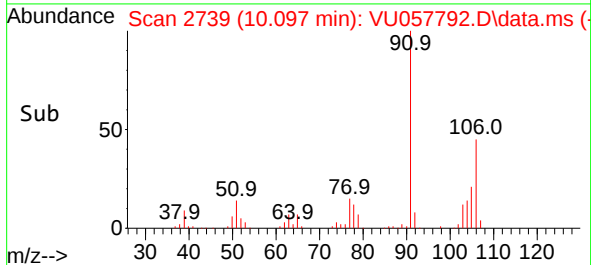
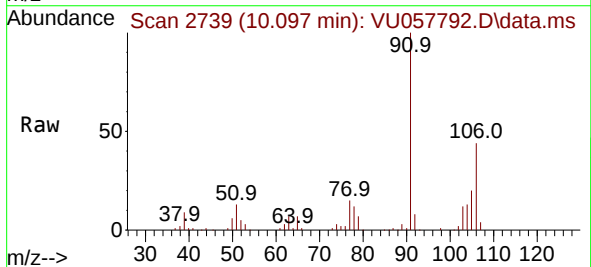
Manual Integrations
APPROVED

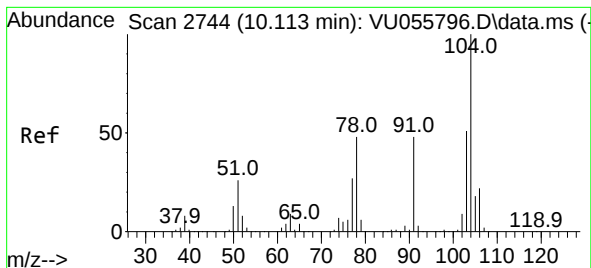
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#65
o-Xylene
Concen: 3.169 ug/l
RT: 10.097 min Scan# 2739
Delta R.T. -0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

Tgt Ion:106 Resp: 63679
Ion Ratio Lower Upper
106 100
91 228.4 109.3 327.9





#66

Styrene

Concen: 1.911 ug/l

RT: 10.113 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

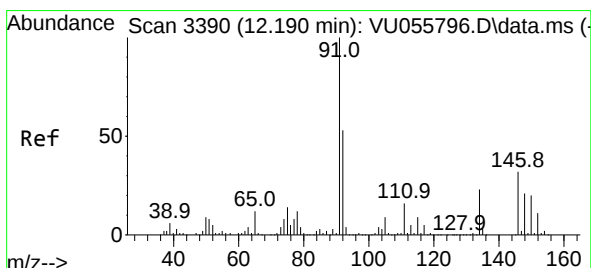
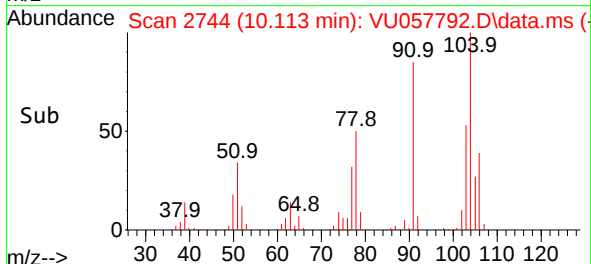
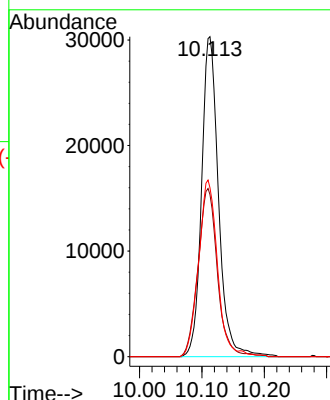
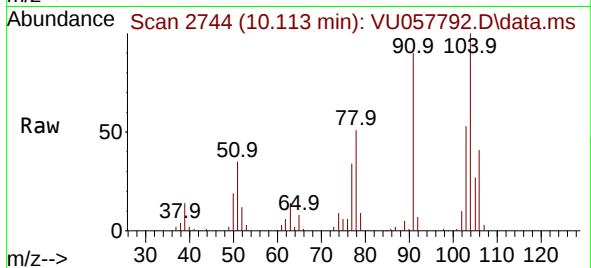
Tgt Ion:104	Resp:	5730
Ion Ratio	Lower	Upper
104	100	
78	60.1	39.7
103	61.8	44.8

Manual Integrations

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Reviewed By :John Carlone 02/14/2024

Supervised By :Mahesh Dadoda 02/14/2024



#68

1,2-Dichlorobenzene-d4

Concen: 0.932 ug/l

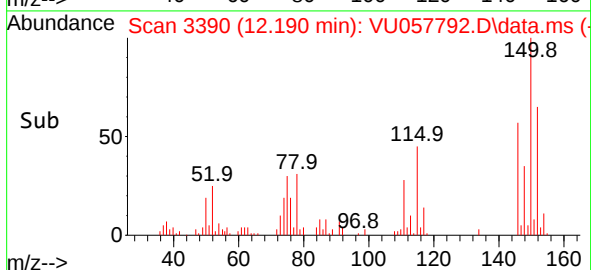
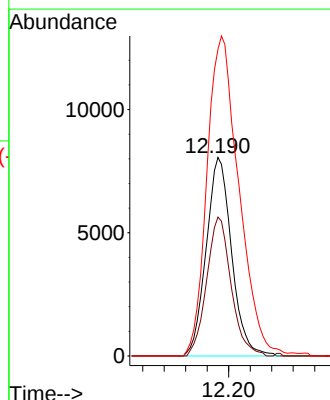
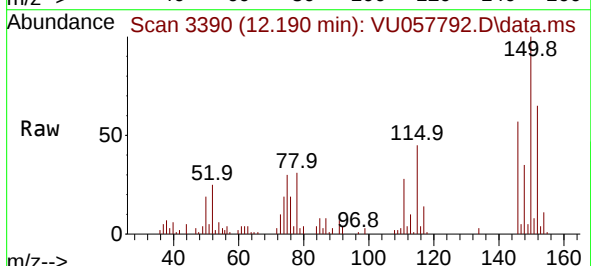
RT: 12.190 min Scan# 3390

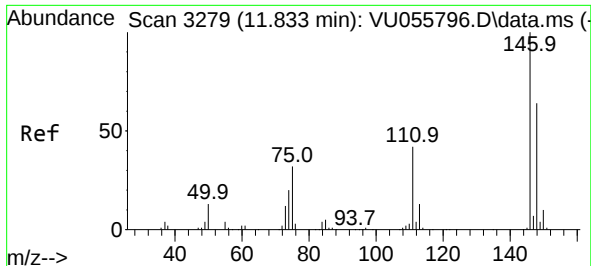
Delta R.T. -0.000 min

Lab File: VU057792.D

Acq: 02 Feb 2024 13:52

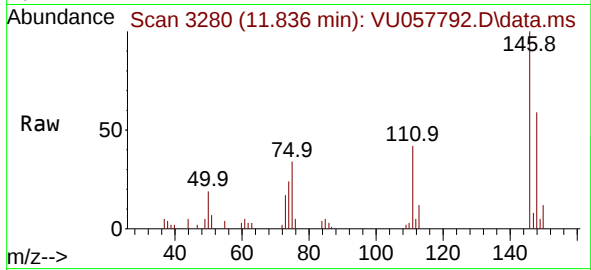
Tgt Ion:152	Resp:	13206
Ion Ratio	Lower	Upper
152	100	
115	67.4	0.0
150	202.8	0.0





#83
1,4-Dichlorobenzene
Concen: 0.614 ug/l
RT: 11.836 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

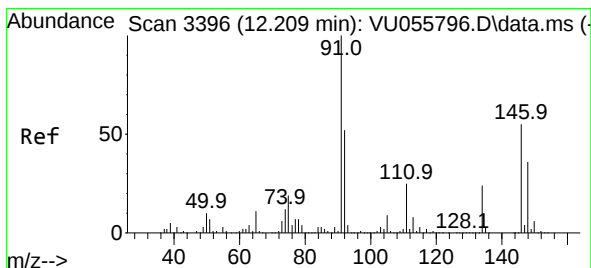
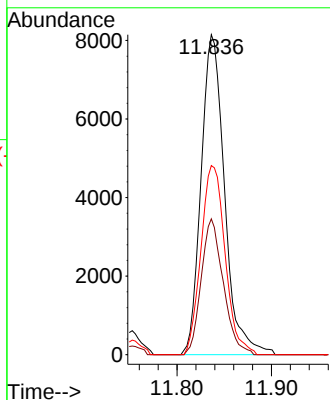
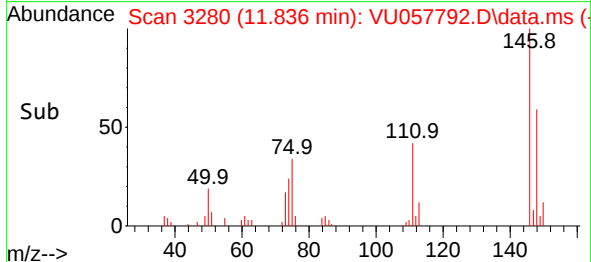
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



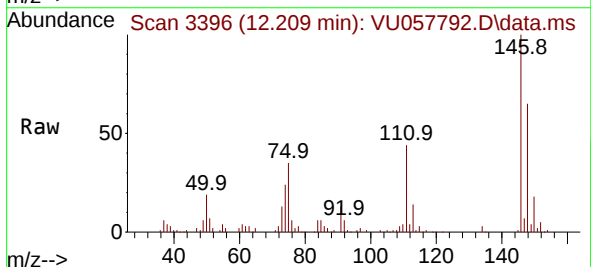
Tgt Ion:146 Resp: 1404
Ion Ratio Lower Upper
146 100
111 39.9 31.6 47.4
148 60.9 50.3 75.5

Manual Integrations
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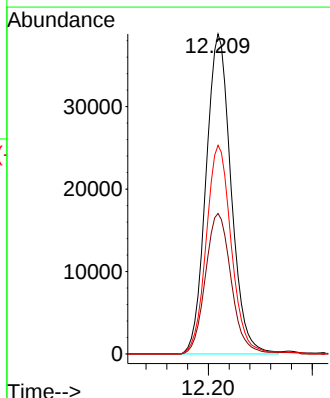
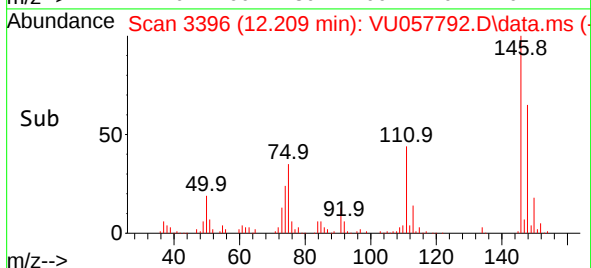
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

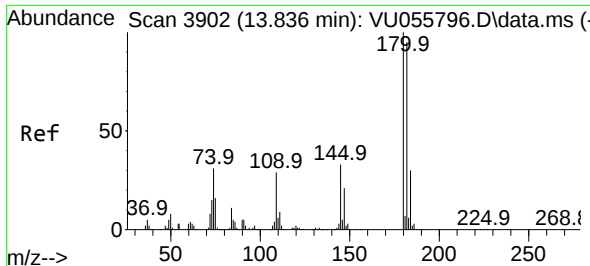


#85
1,2-Dichlorobenzene
Concen: 3.052 ug/l
RT: 12.209 min Scan# 3396
Delta R.T. 0.000 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52



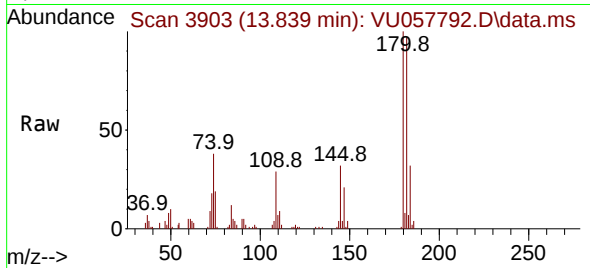
Tgt Ion:146 Resp: 64906
Ion Ratio Lower Upper
146 100
111 45.3 21.6 64.6
148 65.8 32.1 96.5





#87
1,2,4-Trichlorobenzene
Concen: 2.432 ug/l
RT: 13.839 min Scan# 3902
Delta R.T. 0.003 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52

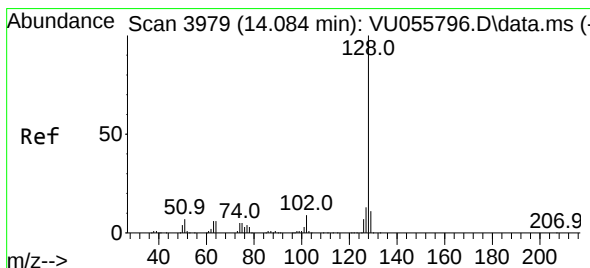
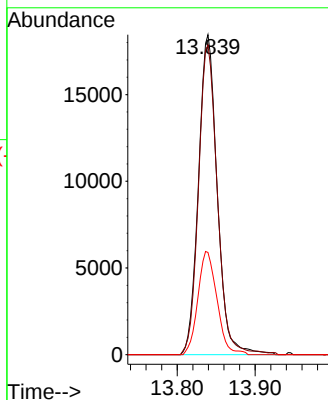
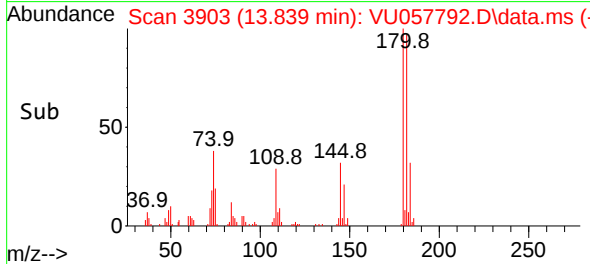
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL



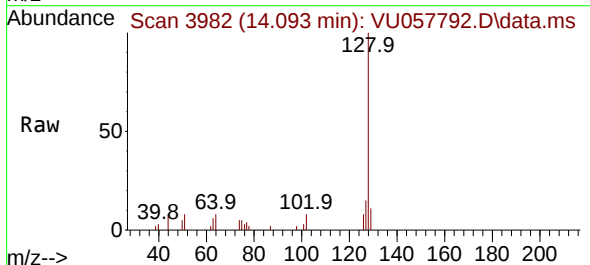
Tgt Ion:180 Resp: 3089
Ion Ratio Lower Upper
180 100
182 97.1 75.8 113.6
145 32.7 23.9 35.9

Manual Integrations
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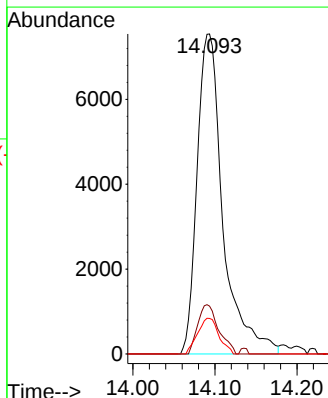
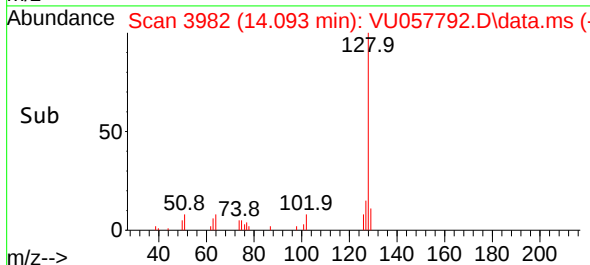
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

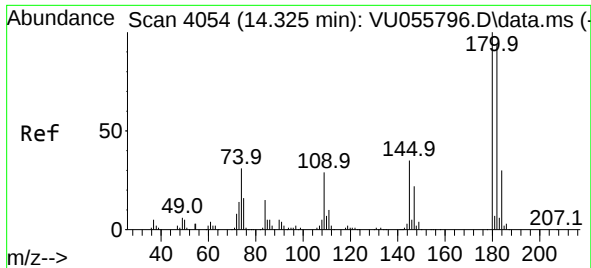


#89
Naphthalene
Concen: 0.841 ug/l
RT: 14.093 min Scan# 3982
Delta R.T. 0.009 min
Lab File: VU057792.D
Acq: 02 Feb 2024 13:52



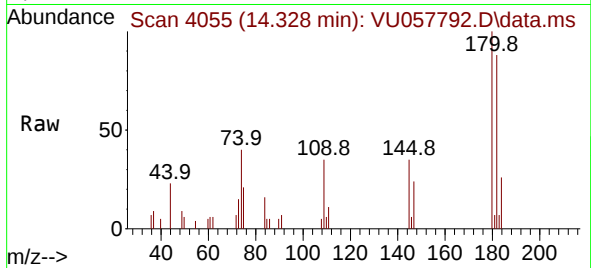
Tgt Ion:128 Resp: 16500
Ion Ratio Lower Upper
128 100
127 12.5 10.9 16.3
129 9.2 8.6 12.8





#90
 1,2,3-Trichlorobenzene
 Concen: 0.436 ug/l
 RT: 14.328 min Scan# 4054
 Delta R.T. 0.003 min
 Lab File: VU057792.D
 Acq: 02 Feb 2024 13:52

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL



Tgt Ion:180 Resp: 4612
 Ion Ratio Lower Upper
 180 100
 182 97.8 75.7 113.5
 145 34.4 26.1 39.1

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/14/2024
 Supervised By :Mahesh Dadoda 02/14/2024

