

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020724\
 Data File : PT01.D
 Acq On : 07 Feb 2024 20:59
 Operator : MD/SY
 Sample : P1184-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 08 09:45:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM020724WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 07 11:31:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	253011	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	232799	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	111591	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	1500	0.741	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	1.480%#
7) Chloroethane-d5	1.878	69	370	0.236	ug/L	-0.03
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.480%#
11) 1,1-Dichloroethene-d2	2.567	63	16265	4.373	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	8.740%#
21) 2-Butanone-d5	4.682	46	84	0.075	ug/L	0.06
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.080%#
24) Chloroform-d	5.062	84	584	0.163	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.320%#
26) 1,2-Dichloroethane-d4	5.701	65	649	0.285	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.560%#
32) Benzene-d6	5.721	84	1558	0.222	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.440%#
36) 1,2-Dichloropropane-d6	6.689	67	105	0.047	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	0.100%#
41) Toluene-d8	7.898	98	1529	0.240	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.480%#
43) trans-1,3-Dichloroprop...	8.190	79	238	0.219	ug/L	0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	0.440%#
47) 2-Hexanone-d5	8.663	63	42	0.046	ug/L	0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.050%#
56) 1,1,2,2-Tetrachloroeth...	10.759	84	1116	0.386	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	0.780%#
66) 1,2-Dichlorobenzene-d4	12.167	152	35	0.016	ug/L	-0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.040%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	92018	41.632	ug/L	96
12) 1,1-Dichloroethene	2.570	96	27615	16.576	ug/L #	66
16) Methylene chloride	3.033	84	24579	12.770	ug/L	86
17) trans-1,2-Dichloroethene	3.341	96	26556	15.643	ug/L	91
20) cis-1,2-Dichloroethene	4.660	96	24088	12.293	ug/L	96
27) 1,2-Dichloroethane	5.792	62	9817	3.398	ug/L	98
30) 1,1,1-Trichloroethane	5.306	97	48162	16.040	ug/L	96
31) Carbon tetrachloride	5.518	117	31620	12.095	ug/L	99
33) Benzene	5.766	78	82691	11.221	ug/L	100
34) Trichloroethene	6.534	95	17846	9.006	ug/L	98
37) 1,2-Dichloropropane	6.782	63	37434	18.528	ug/L #	92
42) Toluene	7.965	91	26231	3.399	ug/L	94
45) 1,1,2-Trichloroethane	8.396	97	20612	11.048	ug/L	92
46) Tetrachloroethene	8.550	164	3601	2.620	ug/L	91
49) Dibromochloromethane	8.550	129	3811	2.025	ug/L #	10
51) Chlorobenzene	9.441	112	156901	32.008	ug/L	98
52) Ethylbenzene	9.566	91	171059	19.538	ug/L	95
53) m,p-Xylene	9.688	106	55067	17.114	ug/L	99
54) o-Xylene	10.094	106	59195	18.893	ug/L	94

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Quant Title : VOC Analysis
QLast Update : Wed Feb 07 11:31:09 2024
Response via : Initial Calibration

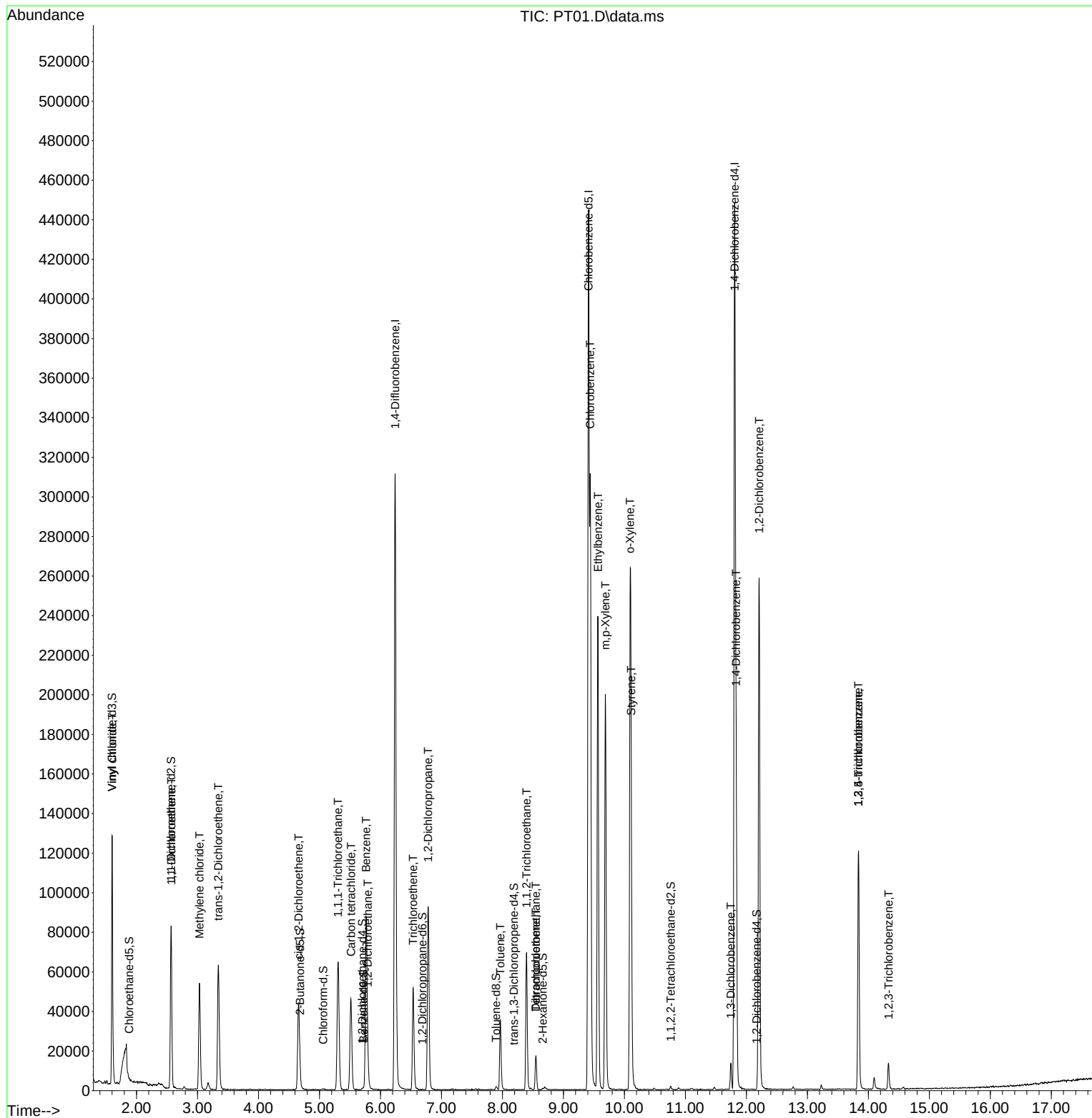
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.113	104	56987	10.896	ug/L	99
64) 1,3-Dichlorobenzene	11.746	146	5515	1.561	ug/L	94
65) 1,4-Dichlorobenzene	11.833	146	59074	16.305	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	103844	29.164	ug/L	97
69) 1,3,5-Trichlorobenzene	13.839	180	37242	14.970	ug/L	98
70) 1,2,4-trichlorobenzene	13.839	180	37242	17.525	ug/L	97
72) 1,2,3-Trichlorobenzene	14.331	180	3847	1.935	ug/L	98

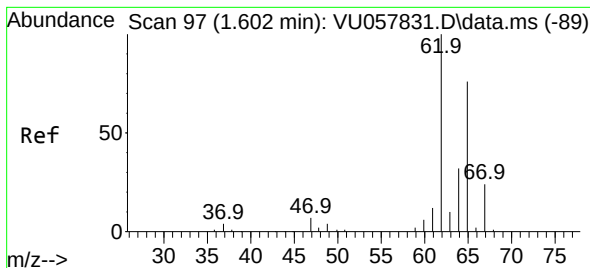
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 41.632 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: PT01.D

Acq: 07 Feb 2024 20:59

Instrument :

MSVOA_U

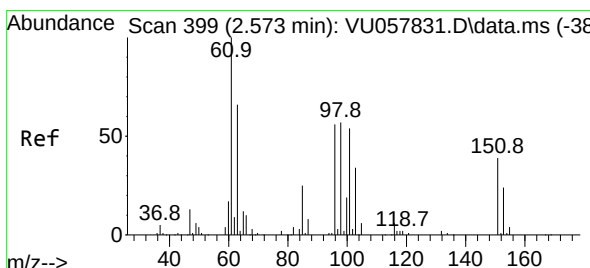
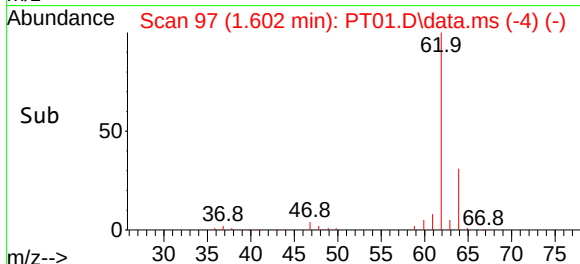
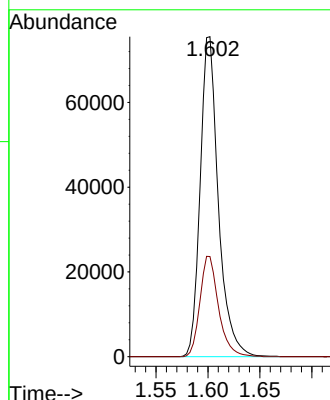
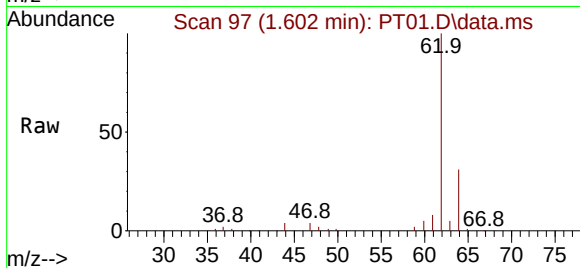
ClientSampleId :

Tgt Ion: 62 Resp: 92018

Ion Ratio Lower Upper

62 100

64 31.3 23.3 43.3



#12

1,1-Dichloroethene

Concen: 16.576 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.003 min

Lab File: PT01.D

Acq: 07 Feb 2024 20:59

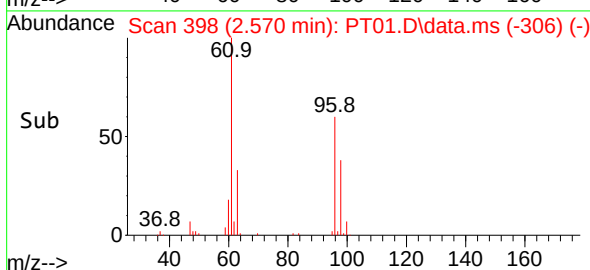
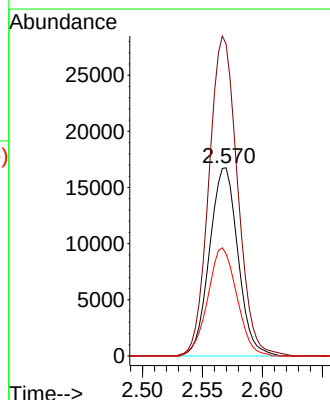
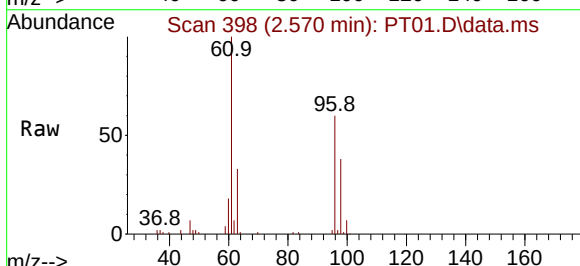
Tgt Ion: 96 Resp: 27615

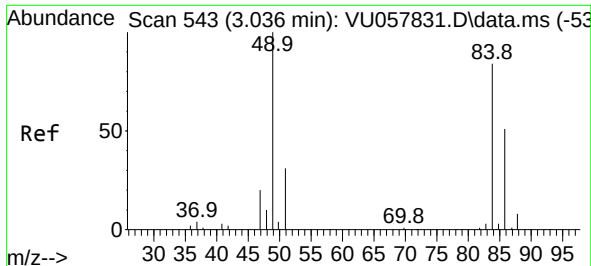
Ion Ratio Lower Upper

96 100

61 165.8 128.3 238.3

63 54.3 90.4 168.0#

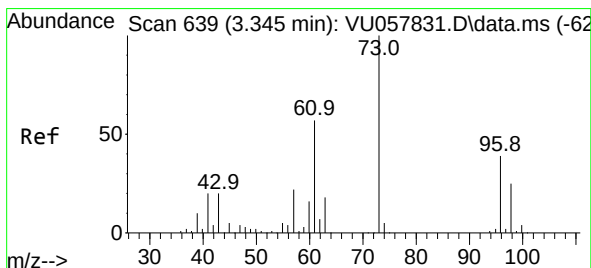
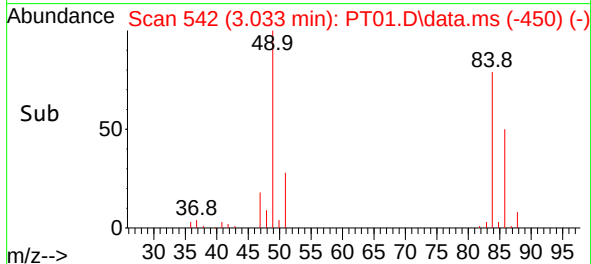
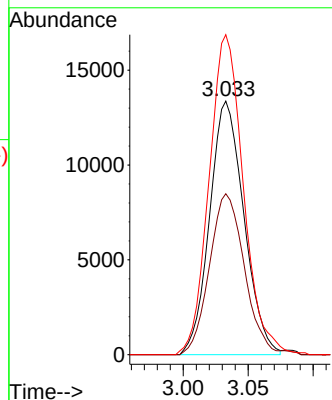
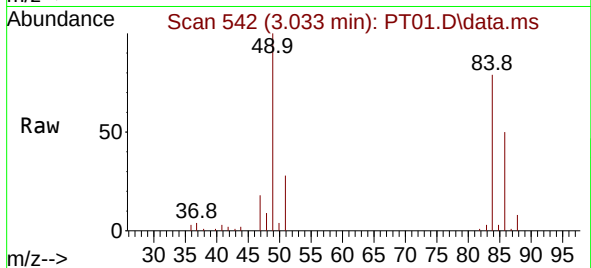




#16
Methylene chloride
Concen: 12.770 ug/L
RT: 3.033 min Scan# 54
Delta R.T. -0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

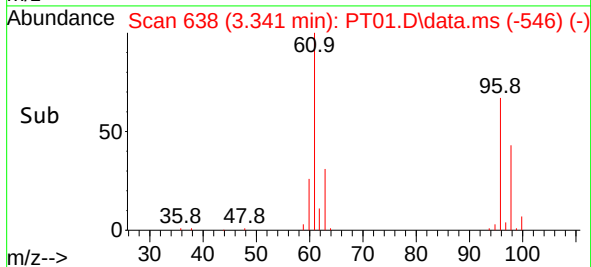
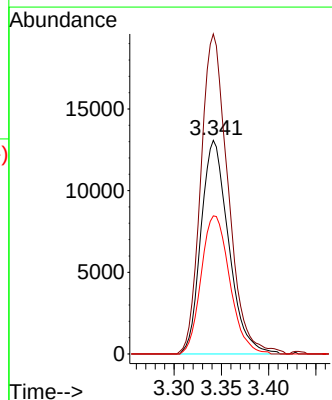
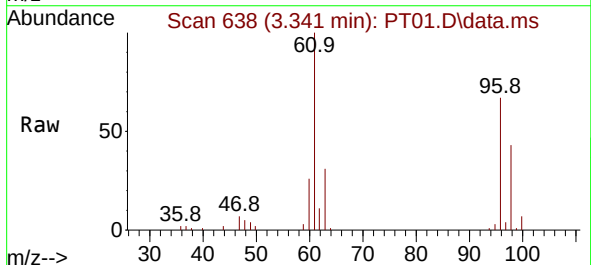
Instrument :
MSVOA_U
ClientSampleId :

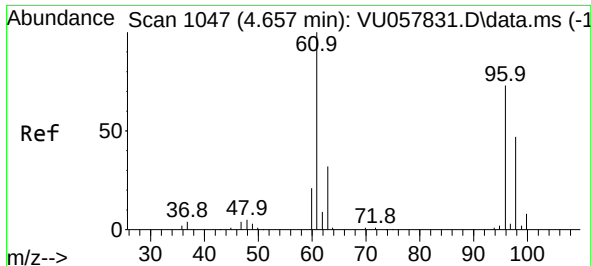
Tgt Ion: 84 Resp: 24579
Ion Ratio Lower Upper
84 100
86 63.4 44.3 82.3
49 126.1 72.2 134.2



#17
trans-1,2-Dichloroethene
Concen: 15.643 ug/L
RT: 3.341 min Scan# 638
Delta R.T. -0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion: 96 Resp: 26556
Ion Ratio Lower Upper
96 100
61 149.8 93.9 174.5
98 64.6 44.8 83.2

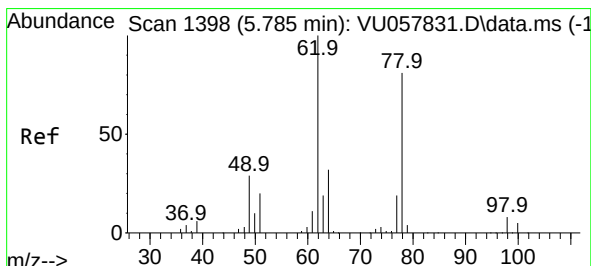
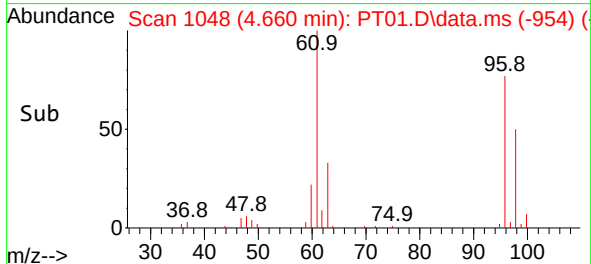
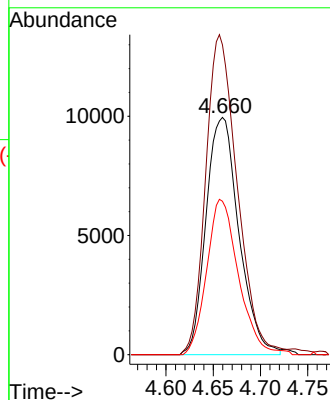
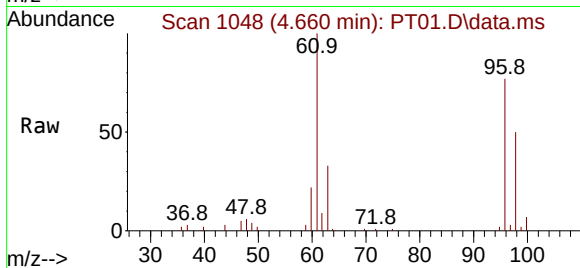




#20
 cis-1,2-Dichloroethene
 Concen: 12.293 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.003 min
 Lab File: PT01.D
 Acq: 07 Feb 2024 20:59

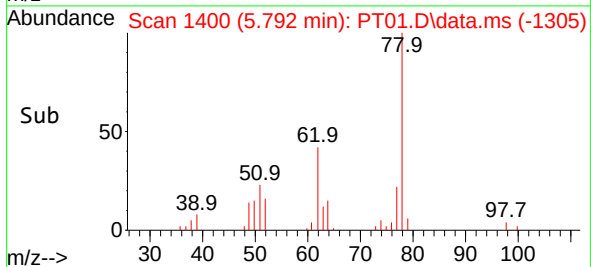
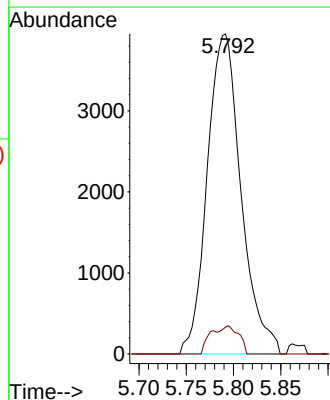
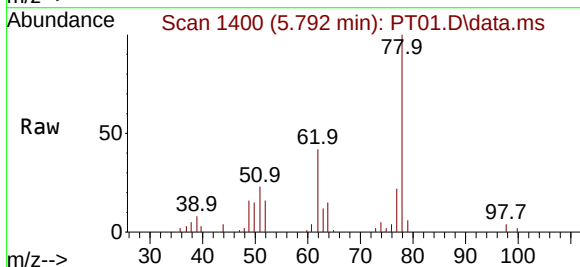
Instrument :
 MSVOA_U
 ClientSampleId :

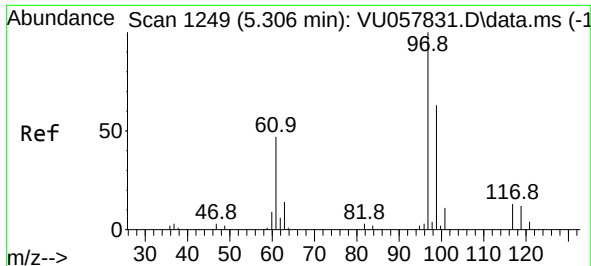
Tgt Ion: 96 Resp: 24088
 Ion Ratio Lower Upper
 96 100
 61 130.6 88.0 163.4
 98 64.7 43.4 80.6



#27
 1,2-Dichloroethane
 Concen: 3.398 ug/L
 RT: 5.792 min Scan# 1400
 Delta R.T. 0.006 min
 Lab File: PT01.D
 Acq: 07 Feb 2024 20:59

Tgt Ion: 62 Resp: 9817
 Ion Ratio Lower Upper
 62 100
 98 8.4 6.1 9.1

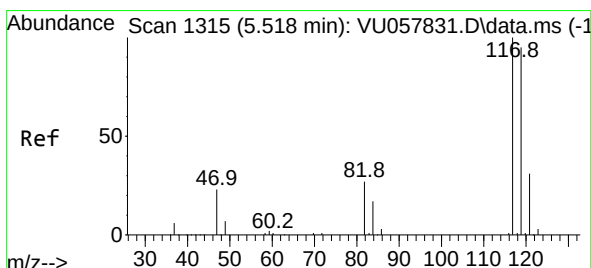
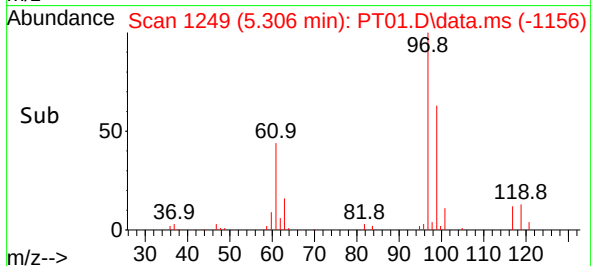
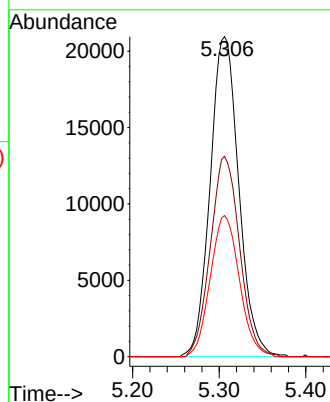
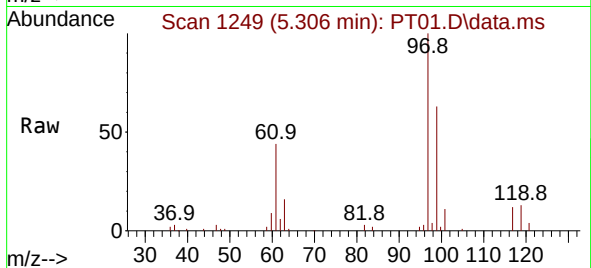




#30
1,1,1-Trichloroethane
Concen: 16.040 ug/L
RT: 5.306 min Scan# 11
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

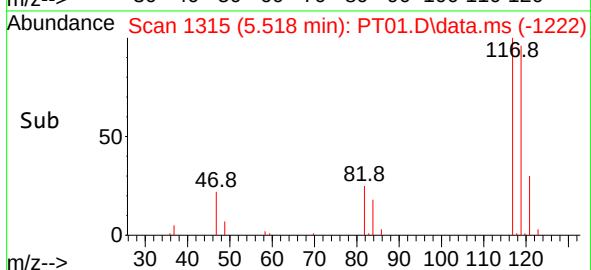
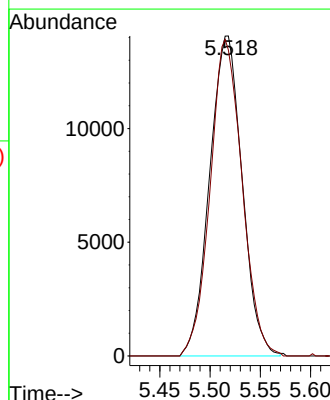
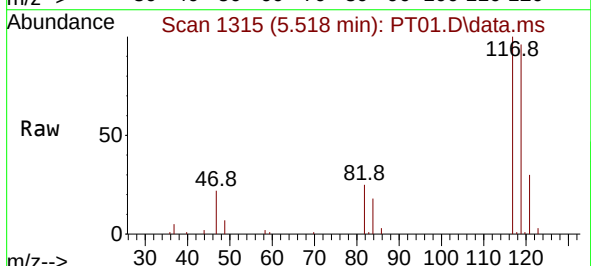
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MSVOA_U
ClientSampleId :

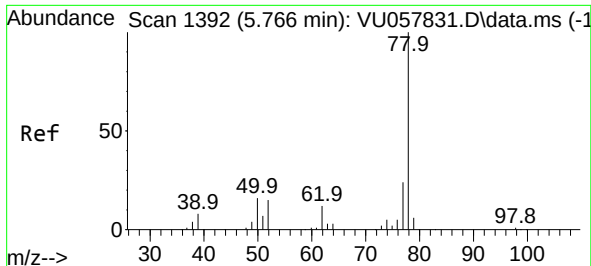
Tgt Ion: 97 Resp: 48162
Ion Ratio Lower Upper
97 100
99 64.0 52.1 78.1
61 44.9 31.9 47.9



#31
Carbon tetrachloride
Concen: 12.095 ug/L
RT: 5.518 min Scan# 1315
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion: 117 Resp: 31620
Ion Ratio Lower Upper
117 100
119 97.0 76.5 114.7

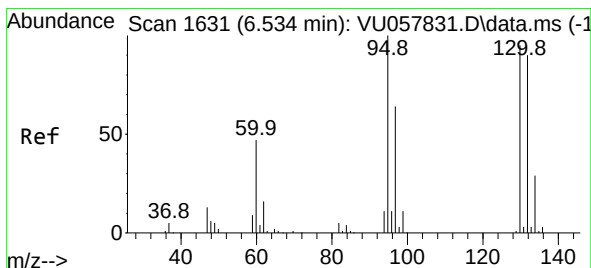
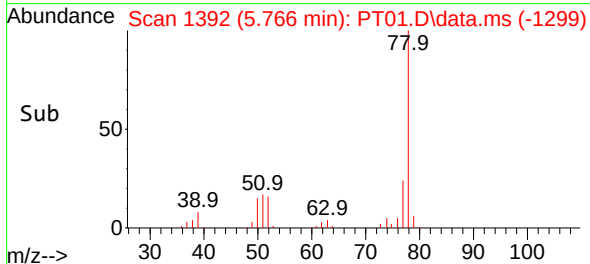
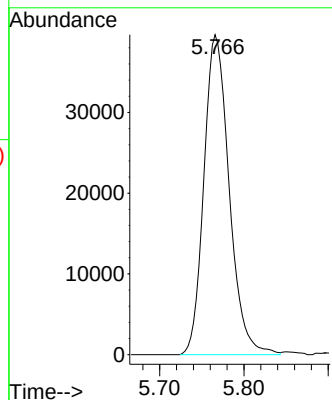
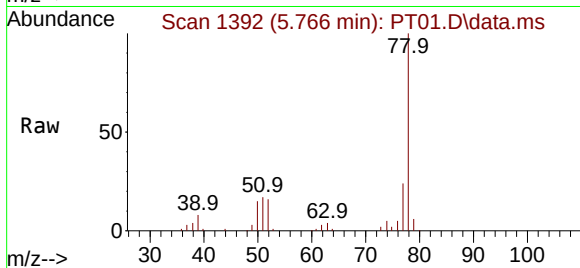




#33
Benzene
Concen: 11.221 ug/L
RT: 5.766 min Scan# 11
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Instrument :
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ClientSampleId :

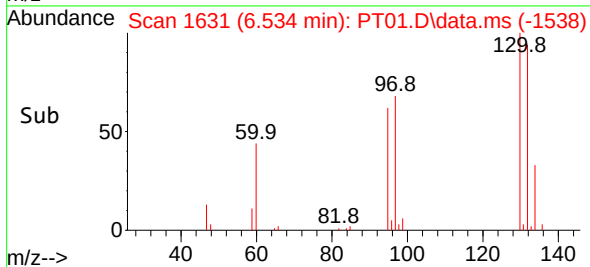
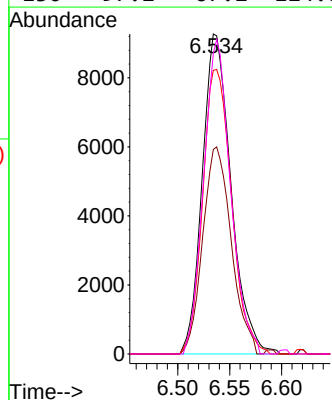
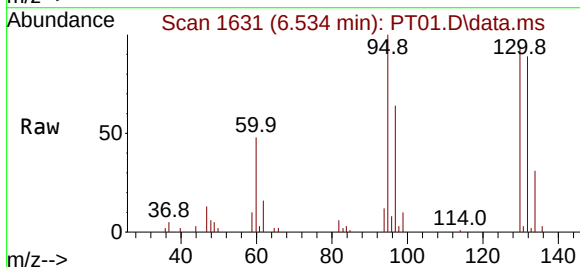
Tgt Ion: 78 Resp: 82691

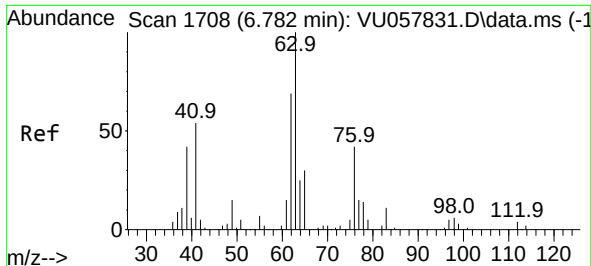


#34
Trichloroethene
Concen: 9.006 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion: 95 Resp: 17846

Ion	Ratio	Lower	Upper
95	100		
97	66.6	46.2	85.8
132	88.7	64.3	119.5
130	97.2	67.2	124.8

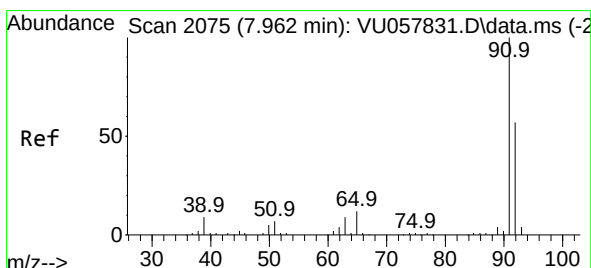
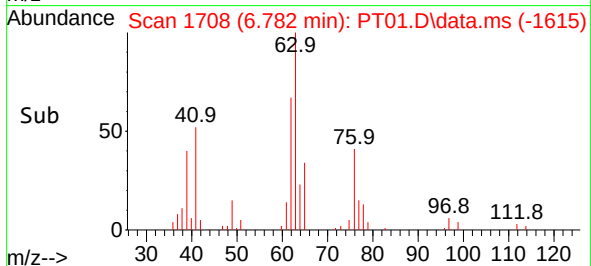
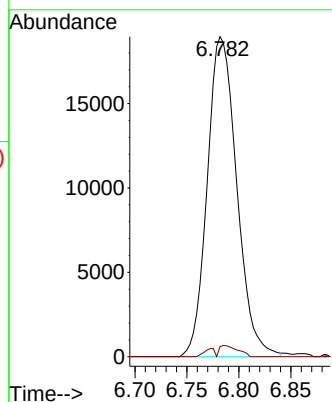
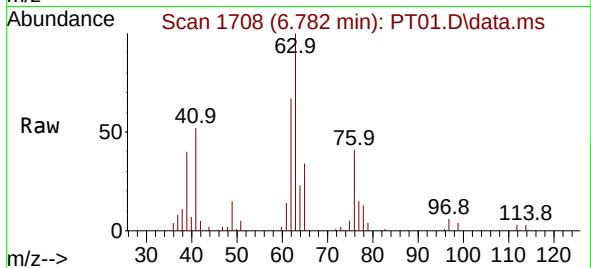




#37
1,2-Dichloropropane
Concen: 18.528 ug/L
RT: 6.782 min Scan# 11
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

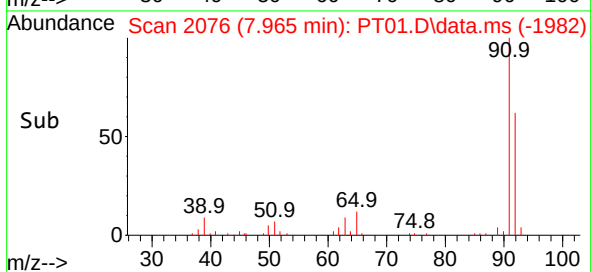
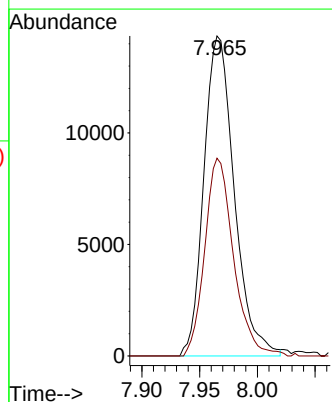
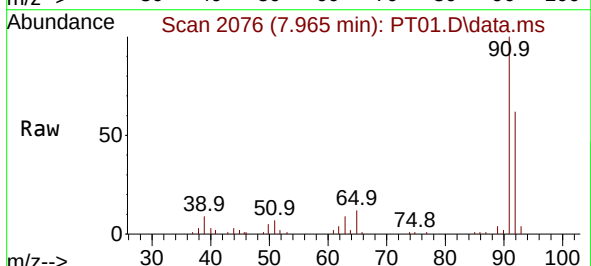
Instrument :
MSVOA_U
ClientSampleId :

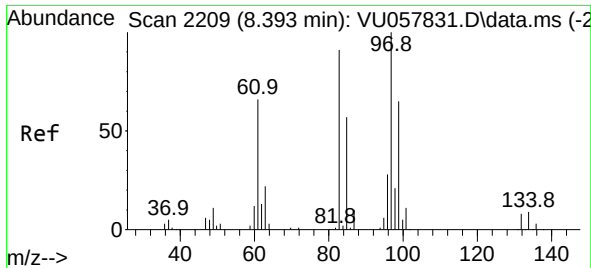
Tgt Ion: 63 Resp: 37434
Ion Ratio Lower Upper
63 100
112 2.2 3.8 5.8#



#42
Toluene
Concen: 3.399 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

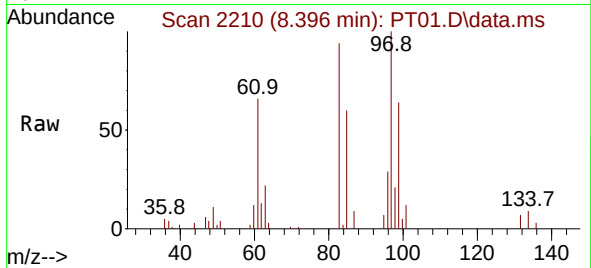
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Ion Ratio Lower Upper
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92 61.8 40.3 74.9



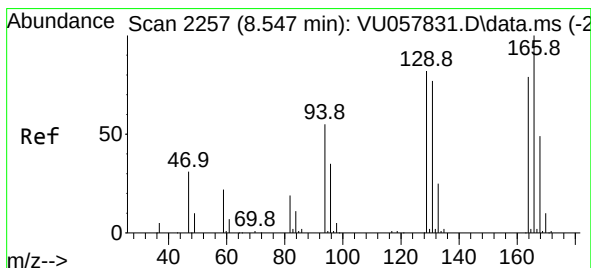
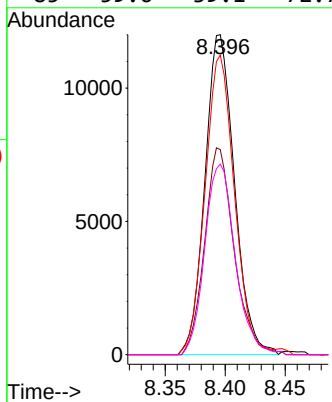
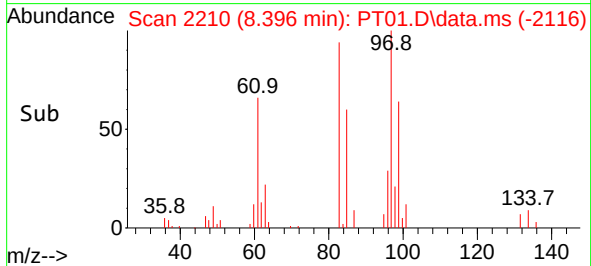


#45
1,1,2-Trichloroethane
Concen: 11.048 ug/L
RT: 8.396 min Scan# 2116
Delta R.T. 0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

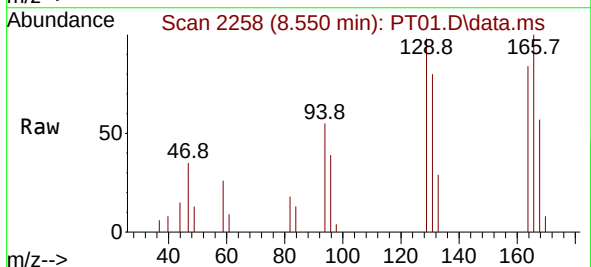
Instrument :
MSVOA_U
ClientSampleId :



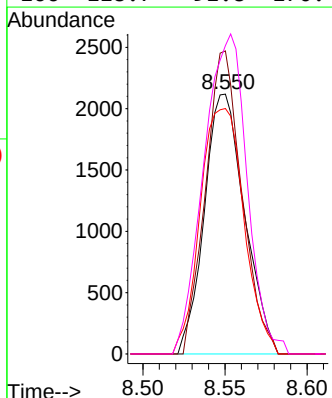
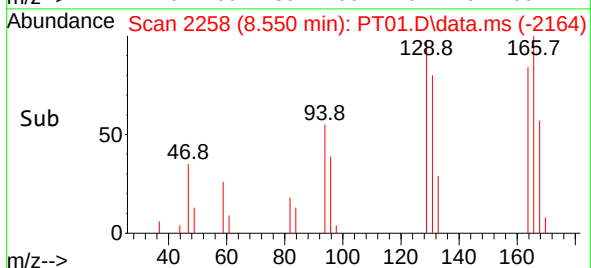
Tgt Ion:	97	Resp:	20612
Ion	Ratio	Lower	Upper
97	100		
99	64.1	43.3	80.5
83	93.6	56.9	105.7
85	59.6	39.1	72.7

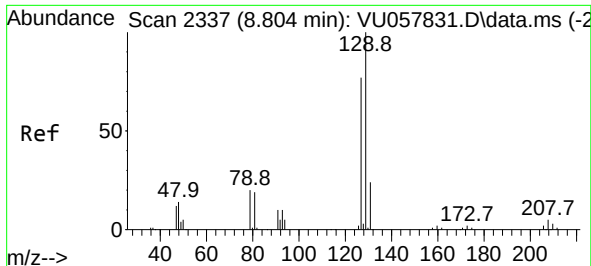


#46
Tetrachloroethene
Concen: 2.620 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. 0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59



Tgt Ion:	164	Resp:	3601
Ion	Ratio	Lower	Upper
164	100		
129	116.7	72.3	134.3
131	94.5	68.8	127.8
166	118.7	91.8	170.4

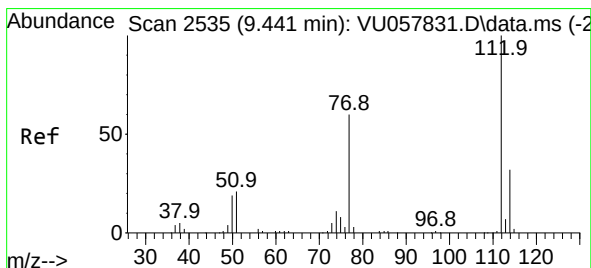
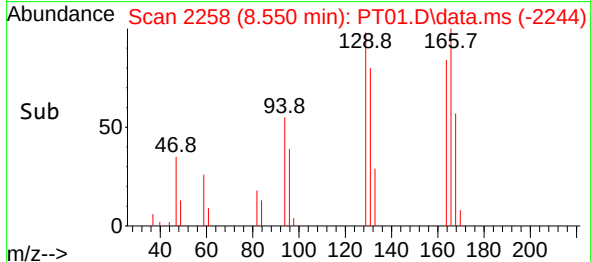
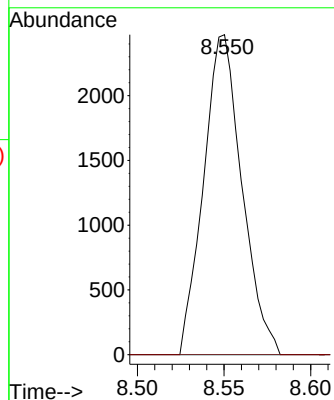
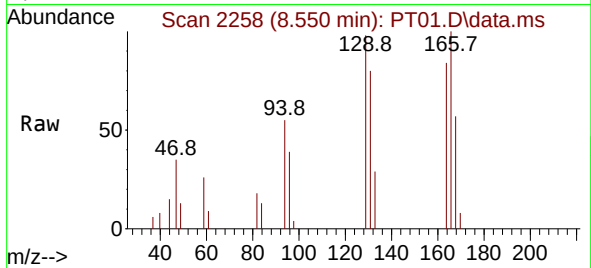




#49
Dibromochloromethane
Concen: 2.025 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.254 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

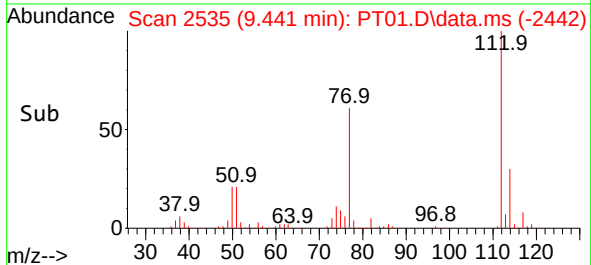
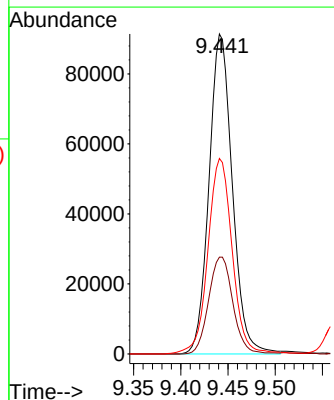
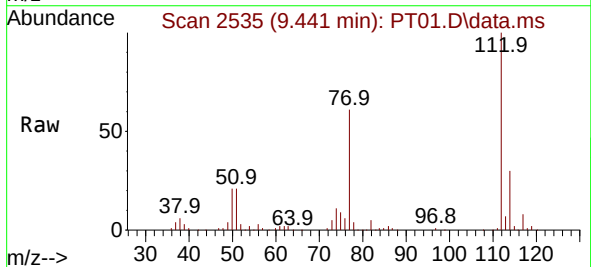
Instrument :
MSVOA_U
ClientSampleId :

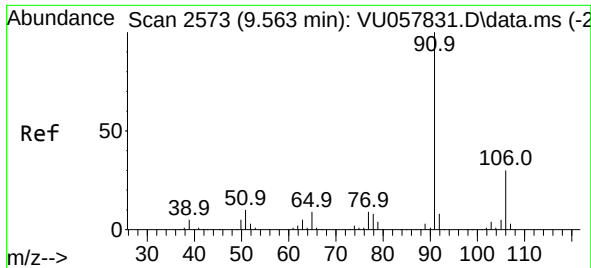
Tgt Ion:129 Resp: 3811
Ion Ratio Lower Upper
129 100
127 0.0 54.5 101.1#



#51
Chlorobenzene
Concen: 32.008 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion:112 Resp: 156901
Ion Ratio Lower Upper
112 100
114 30.3 22.5 41.7
77 61.1 50.1 75.1

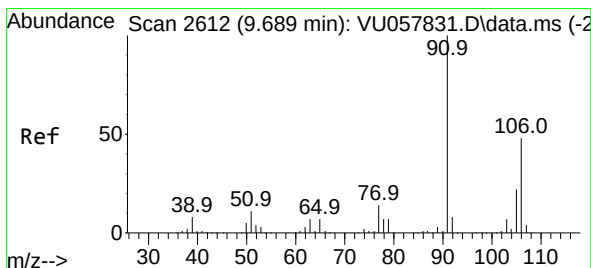
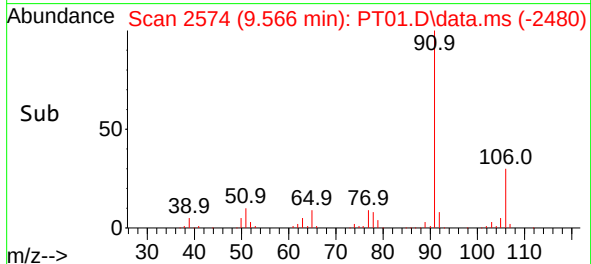
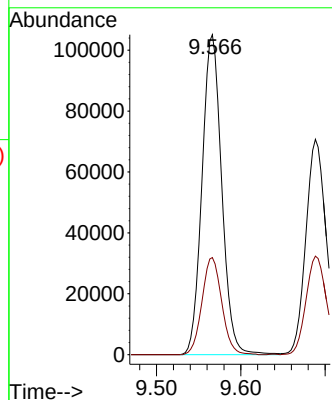
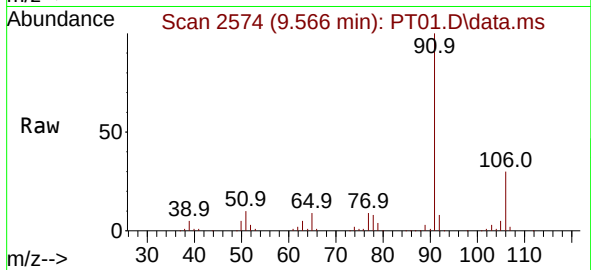




#52
Ethylbenzene
Concen: 19.538 ug/L
RT: 9.566 min Scan# 21
Delta R.T. 0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

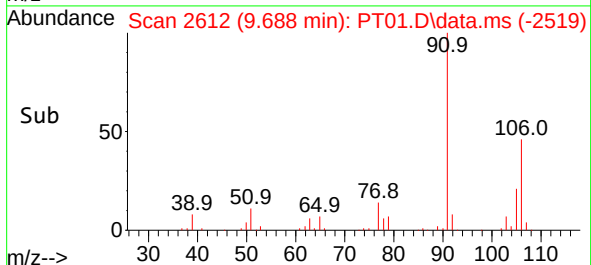
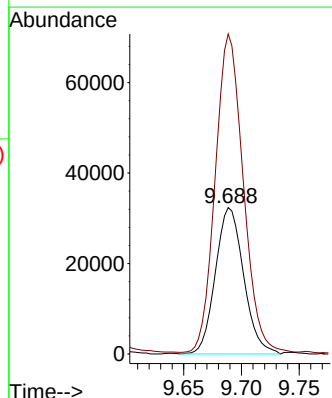
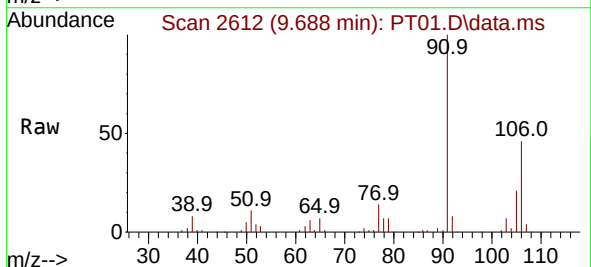
Instrument :
MSVOA_U
ClientSampleId :

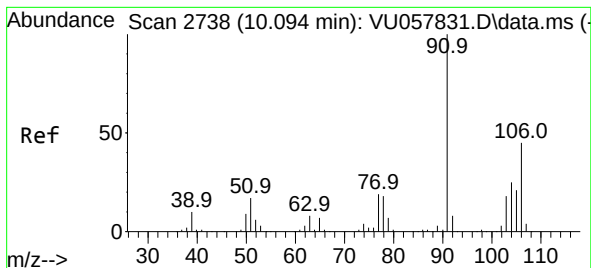
Tgt Ion: 91 Resp: 171059
Ion Ratio Lower Upper
91 100
106 32.8 21.0 39.0



#53
m,p-Xylene
Concen: 17.114 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.000 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion:106 Resp: 55067
Ion Ratio Lower Upper
106 100
91 218.5 151.8 281.8





#54

o-Xylene

Concen: 18.893 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.000 min

Lab File: PT01.D

Acq: 07 Feb 2024 20:59

Instrument :

MSVOA_U

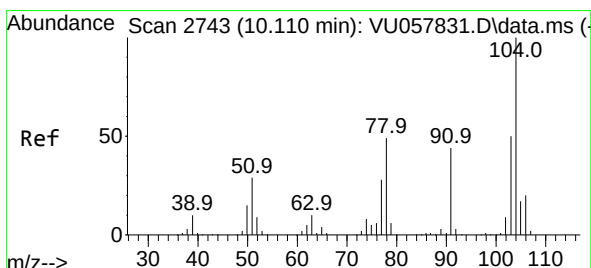
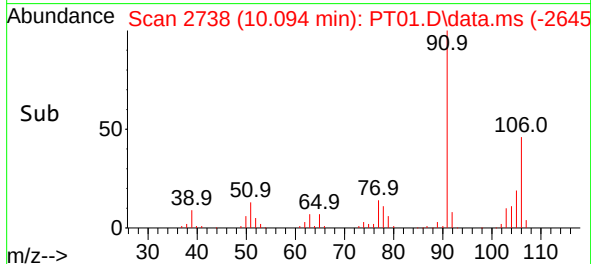
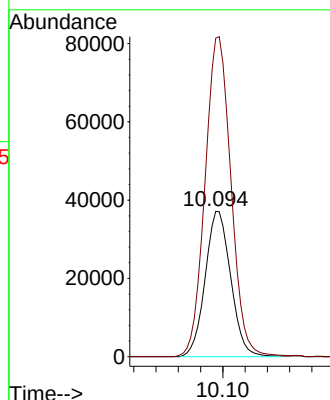
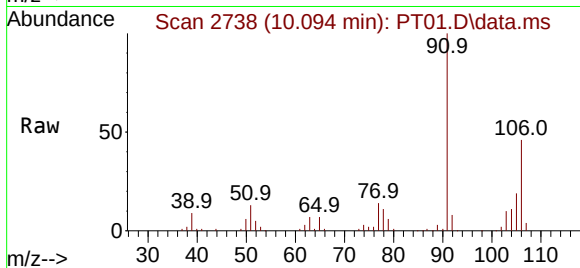
ClientSampleId :

Tgt Ion:106 Resp: 59195

Ion Ratio Lower Upper

106 100

91 219.2 160.4 297.8



#55

Styrene

Concen: 10.896 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. 0.003 min

Lab File: PT01.D

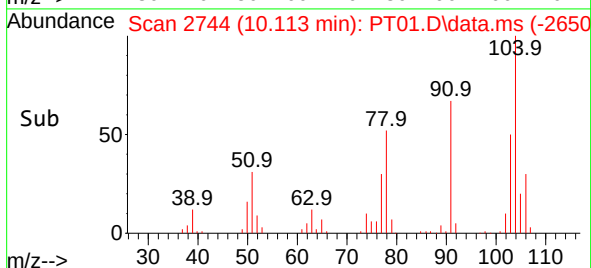
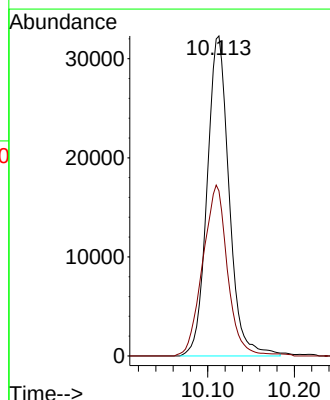
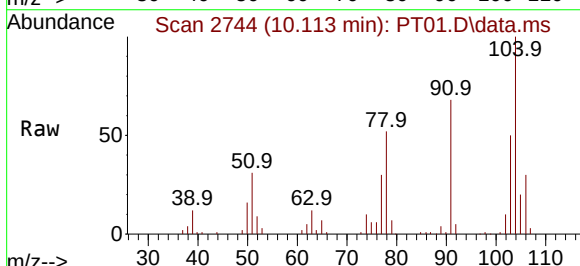
Acq: 07 Feb 2024 20:59

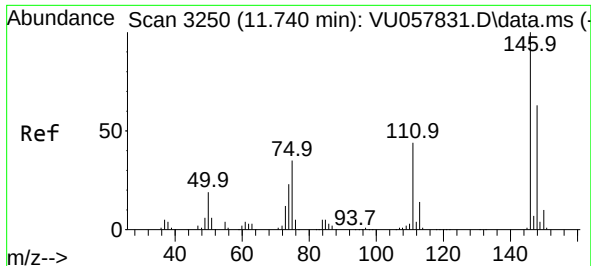
Tgt Ion:104 Resp: 56987

Ion Ratio Lower Upper

104 100

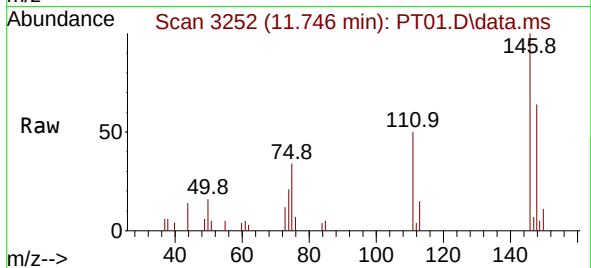
78 51.6 35.8 66.6



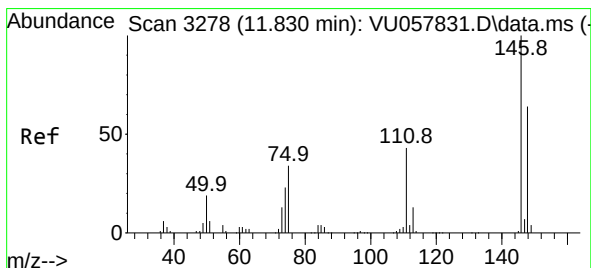
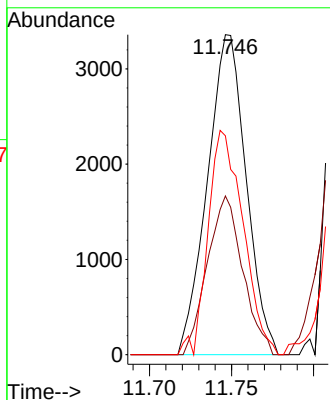
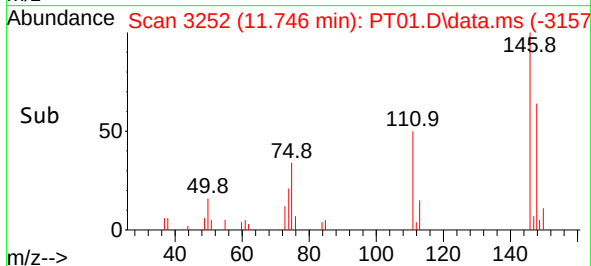


#64
1,3-Dichlorobenzene
Concen: 1.561 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.006 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Instrument :
MSVOA_U
ClientSampleId :

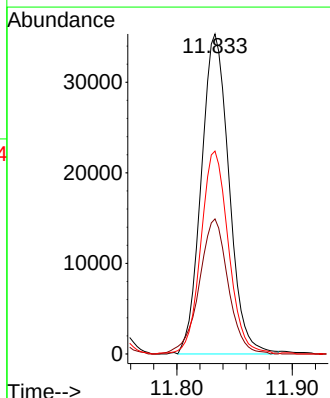
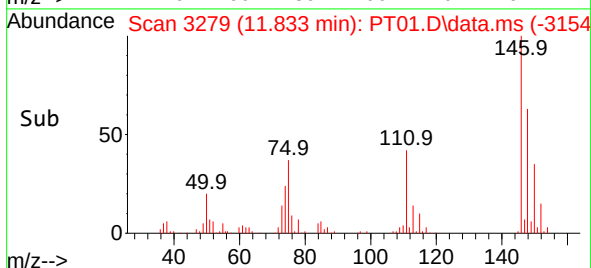
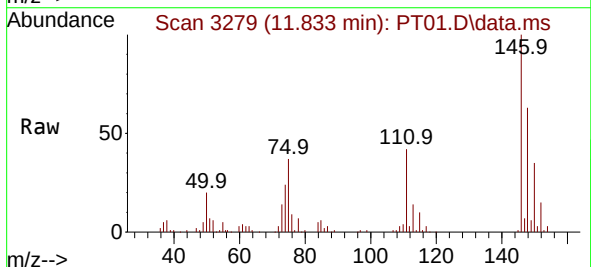


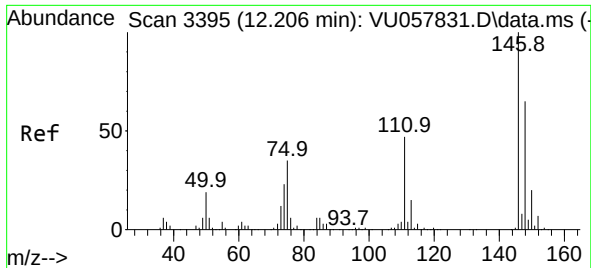
Tgt Ion:146 Resp: 5515
Ion Ratio Lower Upper
146 100
111 49.6 31.6 58.8
148 68.4 45.0 83.6



#65
1,4-Dichlorobenzene
Concen: 16.305 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion:146 Resp: 59074
Ion Ratio Lower Upper
146 100
111 45.6 30.3 56.3
148 63.4 45.9 85.3





#67

1,2-Dichlorobenzene

Concen: 29.164 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.003 min

Lab File: PT01.D

Acq: 07 Feb 2024 20:59

Instrument :

MSVOA_U

ClientSampleId :

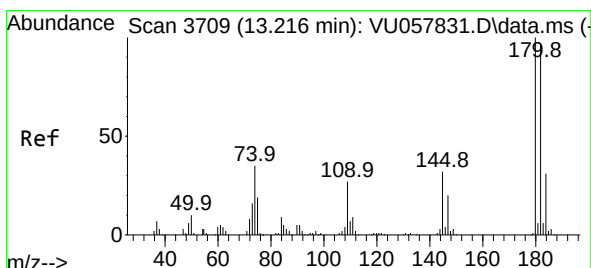
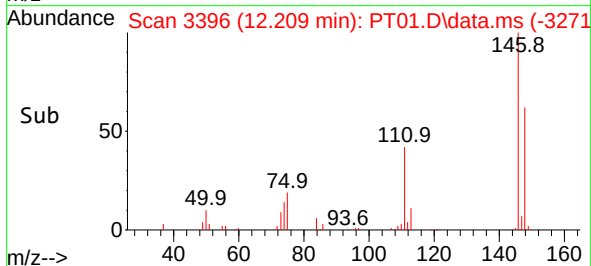
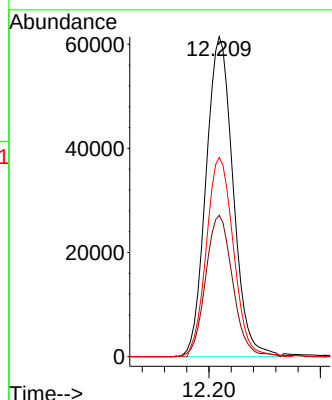
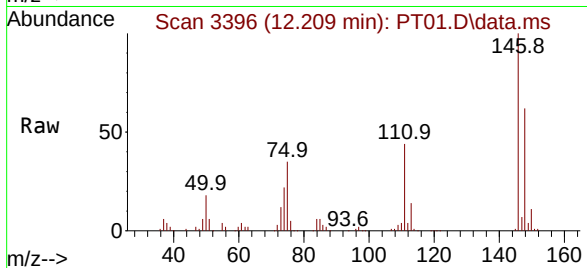
Tgt Ion:146 Resp: 103844

Ion Ratio Lower Upper

146 100

111 44.1 36.9 55.3

148 62.2 52.2 78.2



#69

1,3,5-Trichlorobenzene

Concen: 14.970 ug/L

RT: 13.839 min Scan# 3903

Delta R.T. 0.624 min

Lab File: PT01.D

Acq: 07 Feb 2024 20:59

Tgt Ion:180 Resp: 37242

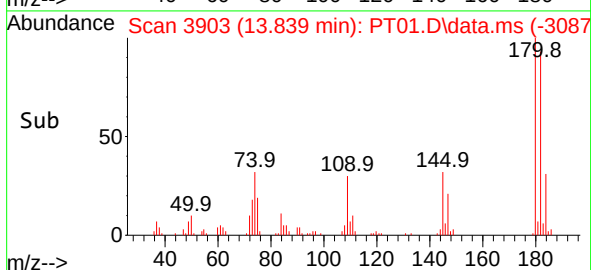
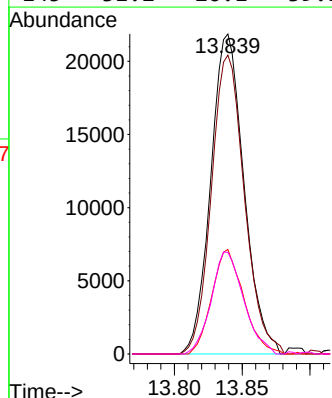
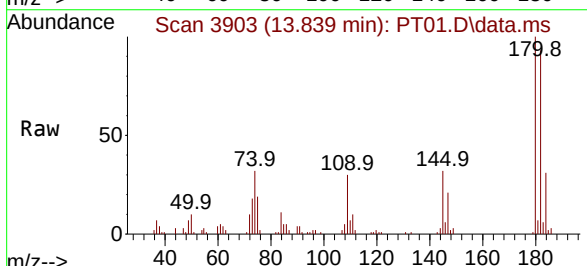
Ion Ratio Lower Upper

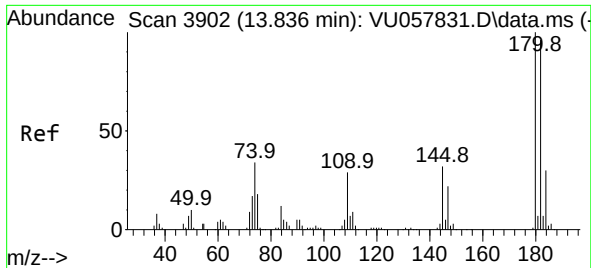
180 100

182 92.9 75.6 113.4

184 31.4 23.9 35.9

145 31.2 26.1 39.1

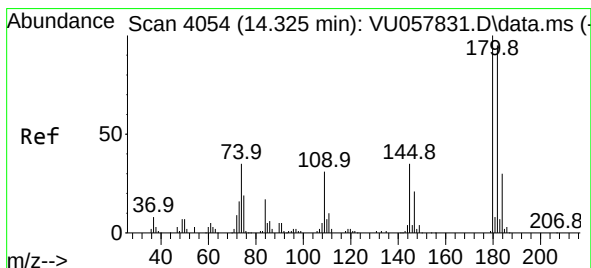
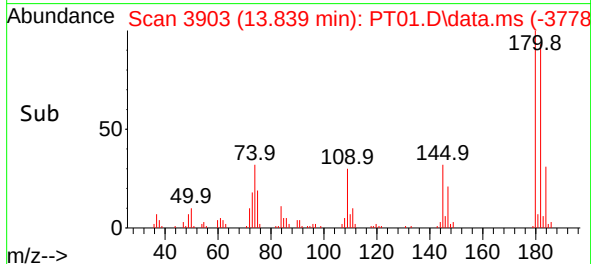
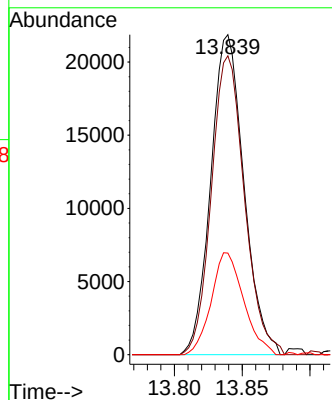
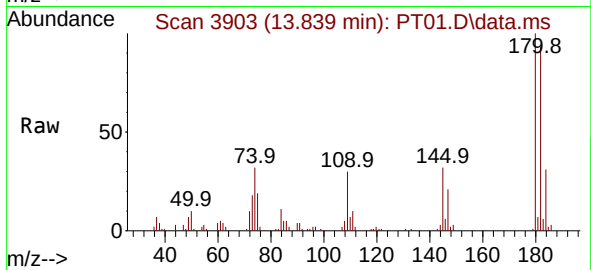




#70
1,2,4-trichlorobenzene
Concen: 17.525 ug/L
RT: 13.839 min Scan# 3902
Delta R.T. 0.003 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:180 Resp: 37242
Ion Ratio Lower Upper
180 100
182 92.9 75.8 113.8
145 31.2 27.4 41.0



#72
1,2,3-Trichlorobenzene
Concen: 1.935 ug/L
RT: 14.331 min Scan# 4056
Delta R.T. 0.006 min
Lab File: PT01.D
Acq: 07 Feb 2024 20:59

Tgt Ion:180 Resp: 3847
Ion Ratio Lower Upper
180 100
182 95.0 77.5 116.3
145 34.6 28.2 42.4

