

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120922\
 Data File : VU052333.D
 Acq On : 10 Dec 2022 03:59
 Operator : JC/MD
 Sample : N5930-10
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ94

Quant Time: Dec 10 04:16:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 08 04:19:43 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	237431	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	243732	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	128311	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	117330	5.080	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.600%
7) Chloroethane-d5	1.916	69	76378	4.258	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.200%
11) 1,1-Dichloroethene-d2	2.568	65	34512	4.169	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.400%
20) 2-Butanone-d5	4.639	46	268008	64.021	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.040%
24) Chloroform-d	5.063	84	153713	4.530	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.600%
26) 1,2-Dichloroethane-d4	5.700	65	82279	4.800	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.000%
32) Benzene-d6	5.726	84	320448	4.429	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.600%
36) 1,2-Dichloropropane-d6	6.687	67	105849	4.727	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.600%
41) Toluene-d8	7.896	98	255516	3.903	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.000%
43) trans-1,3-Dichloroprop...	8.176	79	36142	4.429	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.600%
46) 2-Hexanone-d5	8.632	63	177215	51.244	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.480%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	100861	5.195	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.800%
66) 1,2-Dichlorobenzene-d4	12.188	152	117072	4.766	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	3554037	137.639	ug/L	98
8) Chloroethane	1.938	64	128696	8.015	ug/L	93
9) Trichlorofluoromethane	2.144	101	3624	0.128	ug/L	90
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	1488	0.086	ug/L #	20
12) 1,1-Dichloroethene	2.584	96	139563	8.103	ug/L #	78
18) trans-1,2-Dichloroethene	3.356	96	94870	5.138	ug/L	97
19) 1,1-Dichloroethane	3.870	63	8147015	244.830	ug/L	99
22) cis-1,2-Dichloroethene	4.665	96	13527514	698.122	ug/L	95
27) 1,2-Dichloroethane	5.793	62	34643	1.677	ug/L	95
29) 1,1,1-Trichloroethane	5.314	97	3008756	111.264	ug/L	99
30) Cyclohexane	5.385	56	5413	0.206	ug/L	96
31) Carbon tetrachloride	5.314	117	409827	17.836	ug/L	99
33) Benzene	5.774	78	66658	0.840	ug/L	100
34) Trichloroethene	6.539	95	26722	1.351	ug/L	95
35) Methylcyclohexane	6.758	83	17052	0.599	ug/L	94
37) 1,2-Dichloropropane	6.687	63	10581	0.515	ug/L #	88
42) Toluene	7.967	91	610871	7.487	ug/L	98
45) 1,1,2-Trichloroethane	8.398	97	6809	0.441	ug/L	93
47) Tetrachloroethene	8.552	164	11114	0.733	ug/L	91

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

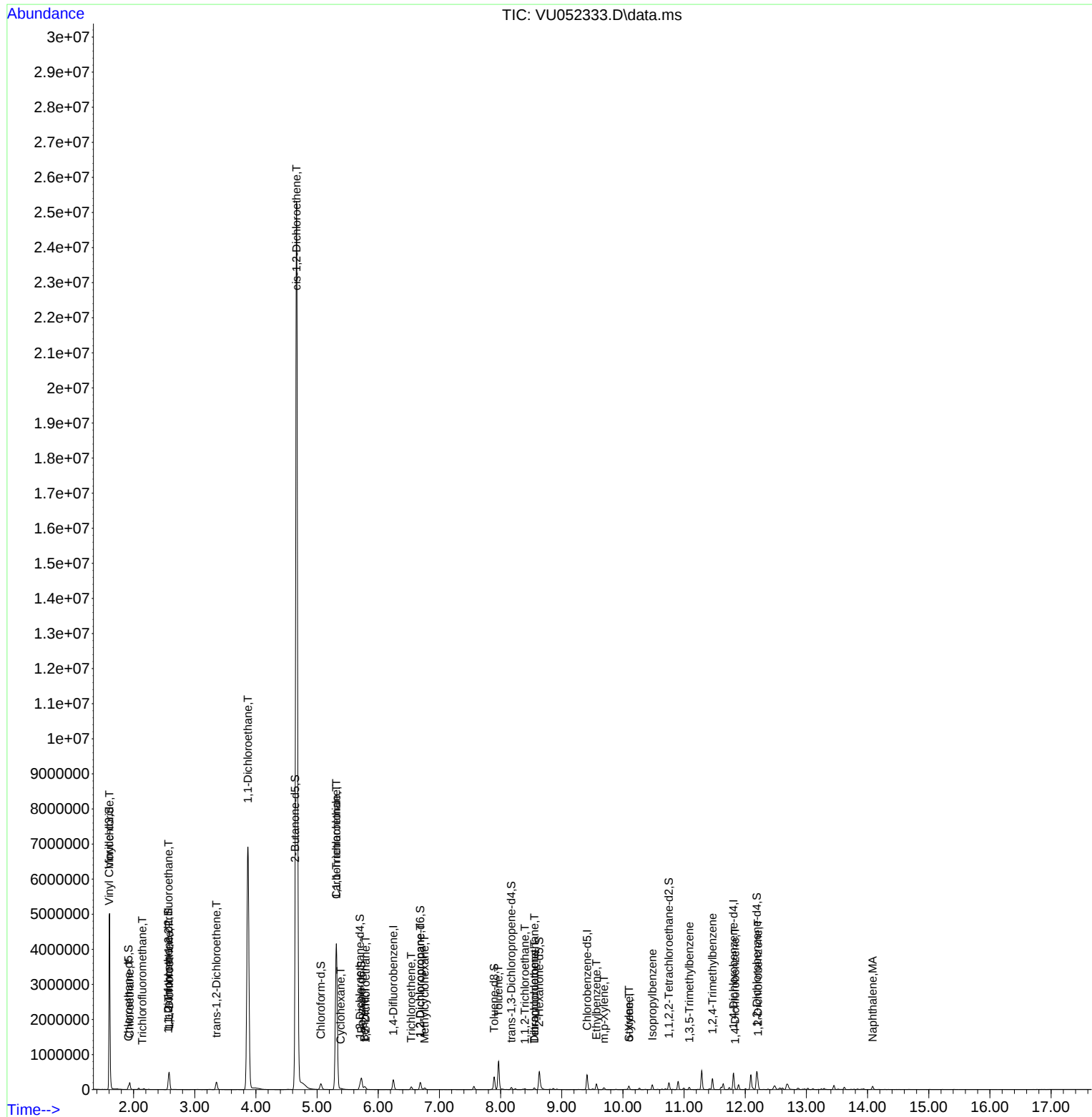
49) Dibromochloromethane	8.552	129	11379	0.658	ug/L #	12
52) Ethylbenzene	9.565	91	111115	1.401	ug/L	99
53) m,p-Xylene	9.690	106	12480	0.406	ug/L	98
54) o-Xylene	10.098	106	27407	0.931	ug/L	90
55) Styrene	10.098	104	2217	0.045	ug/L #	1
60) Isopropylbenzene	10.481	105	83659	1.038	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	35986	0.559	ug/L	98
63) 1,2,4-Trimethylbenzene	11.465	105	172685	2.700	ug/L	98
65) 1,4-Dichlorobenzene	11.835	146	2933	0.071	ug/L	97
67) 1,2-Dichlorobenzene	12.208	146	32597	0.823	ug/L	98
71) Naphthalene	14.082	128	80892	1.939	ug/L	98

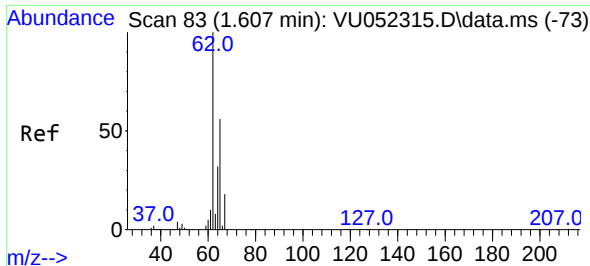
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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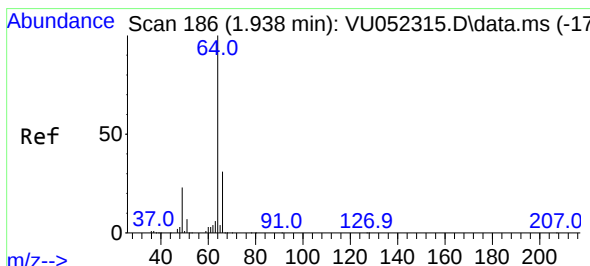
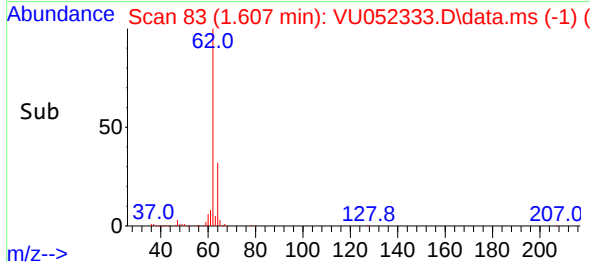
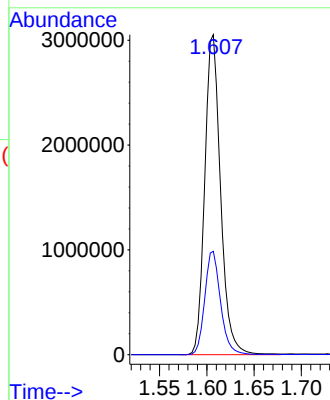
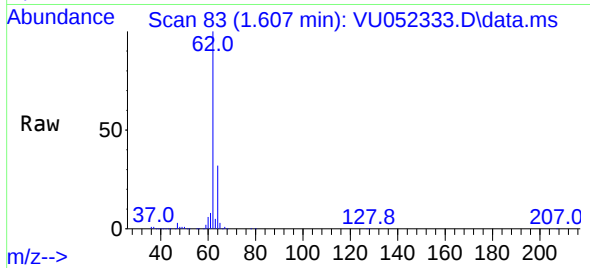




#5
 Vinyl chloride
 Concen: 137.639 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VU052333.D
 Acq: 10 Dec 2022 03:59

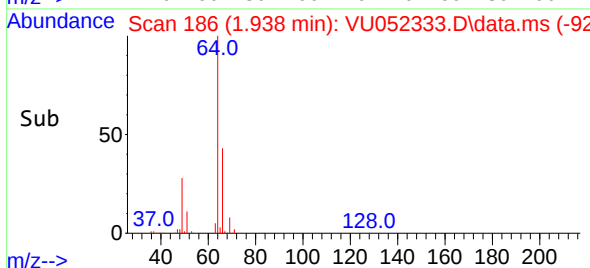
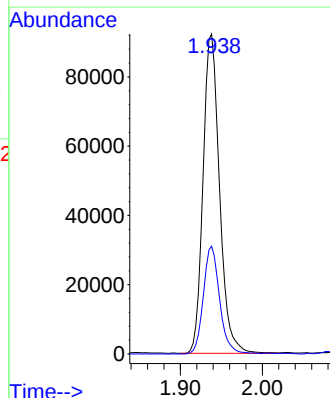
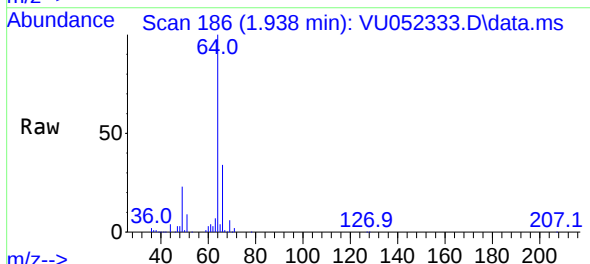
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ94

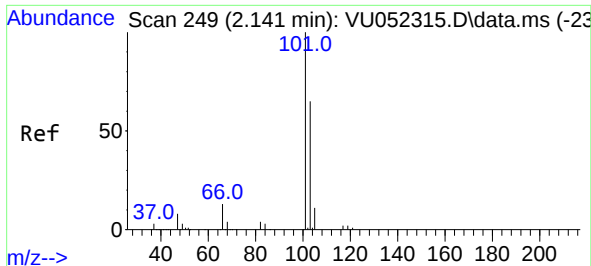
Tgt Ion: 62 Resp: 3554037
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.5 43.7



#8
 Chloroethane
 Concen: 8.015 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. 0.003 min
 Lab File: VU052333.D
 Acq: 10 Dec 2022 03:59

Tgt Ion: 64 Resp: 128696
 Ion Ratio Lower Upper
 64 100
 66 33.7 21.1 39.1

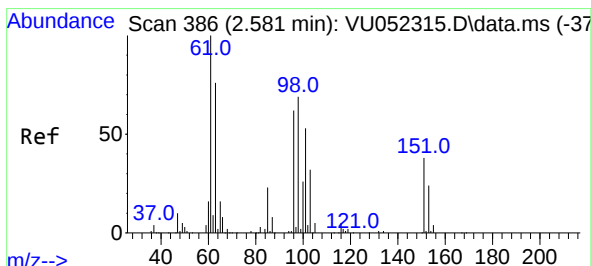
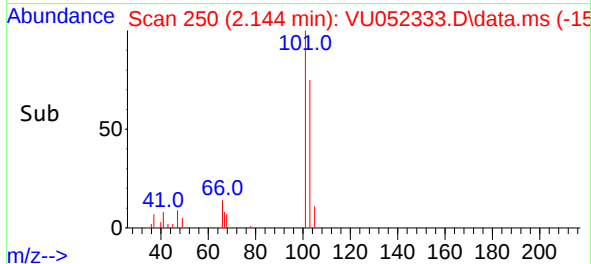
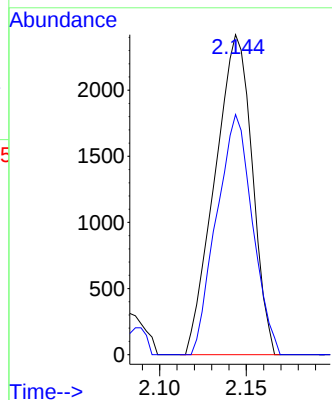
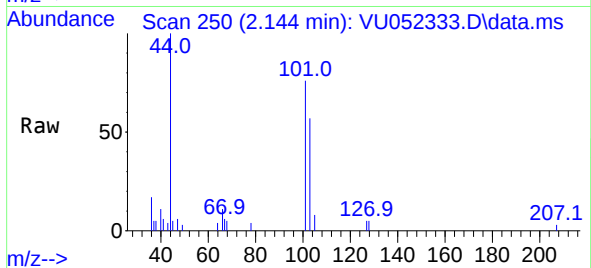




#9
Trichlorofluoromethane
Concen: 0.128 ug/L
RT: 2.144 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

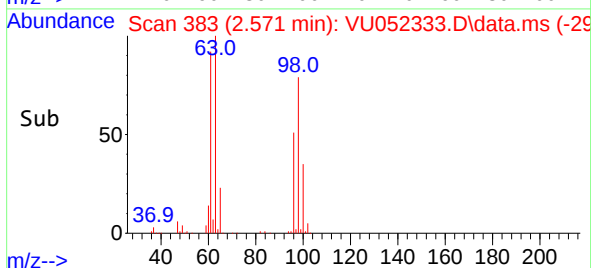
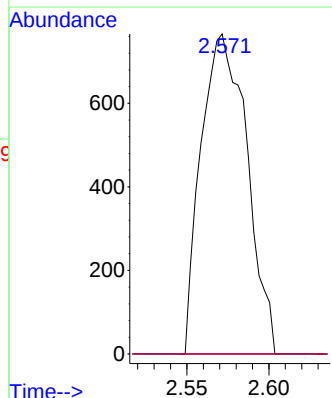
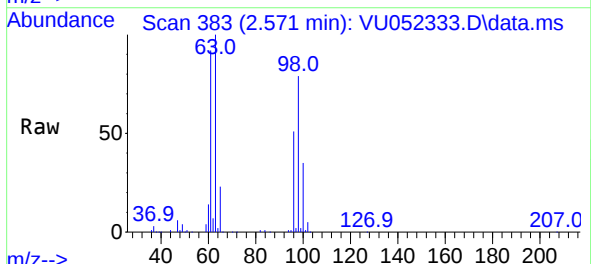
Instrument :
MSVOA_U
ClientSampleId :
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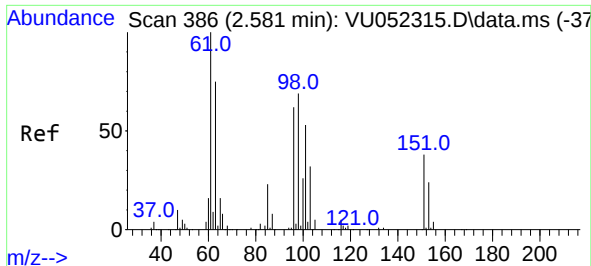
Tgt Ion:101 Resp: 3624
Ion Ratio Lower Upper
101 100
103 72.3 51.6 77.4



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.086 ug/L
RT: 2.571 min Scan# 383
Delta R.T. -0.010 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:101 Resp: 1488
Ion Ratio Lower Upper
101 100
85 0.0 33.8 50.6#
151 0.0 58.6 88.0#





#12

1,1-Dichloroethene

Concen: 8.103 ug/L

RT: 2.584 min Scan# 386

Delta R.T. 0.003 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

Instrument :

MSVOA_U

ClientSampleId :

EXZ94

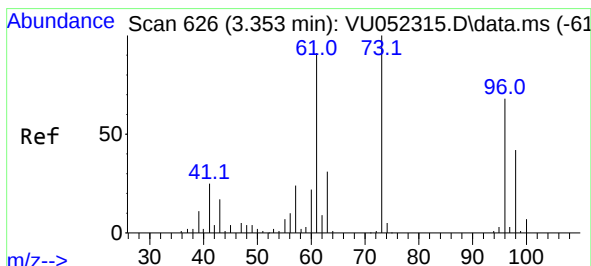
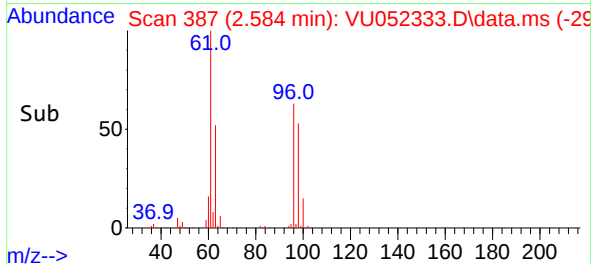
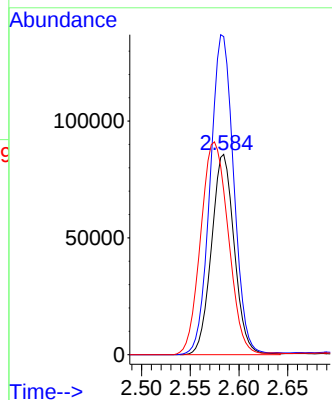
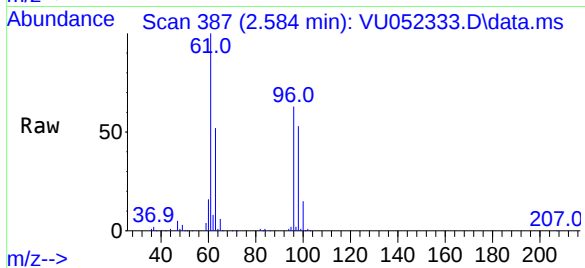
Tgt Ion: 96 Resp: 139563

Ion Ratio Lower Upper

96 100

61 158.8 114.8 213.2

63 81.9 93.7 174.1#



#18

trans-1,2-Dichloroethene

Concen: 5.138 ug/L

RT: 3.356 min Scan# 627

Delta R.T. 0.003 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

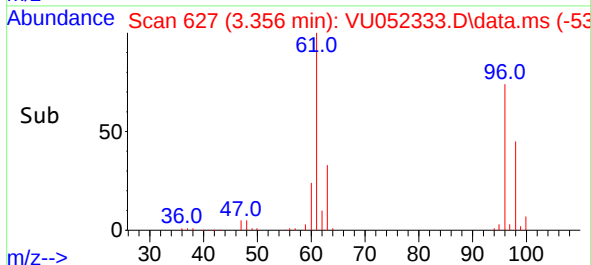
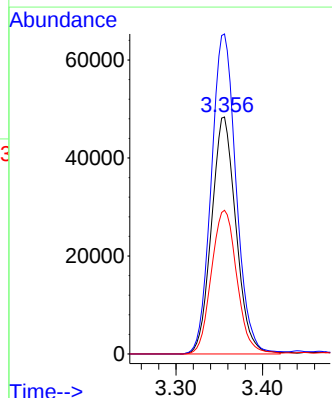
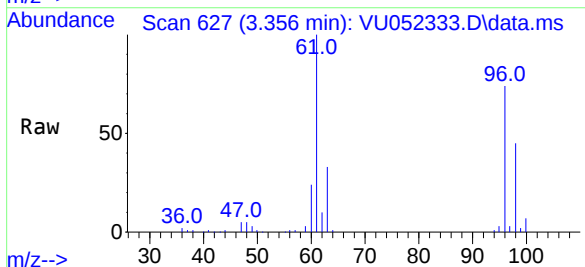
Tgt Ion: 96 Resp: 94870

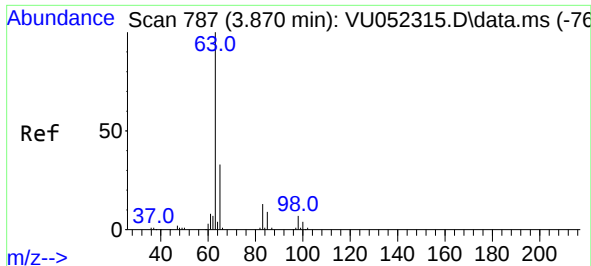
Ion Ratio Lower Upper

96 100

61 135.0 97.9 181.7

98 60.7 43.8 81.3



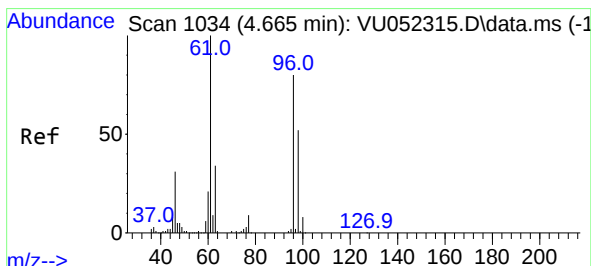
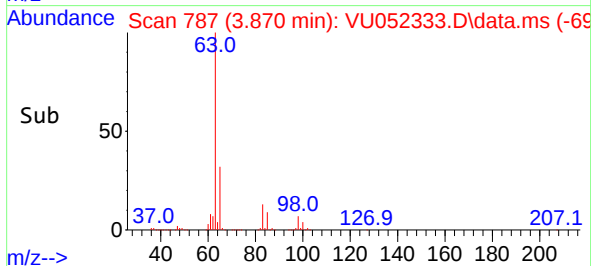
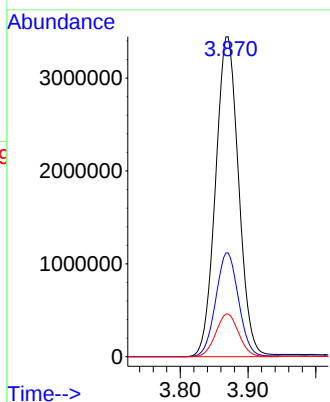
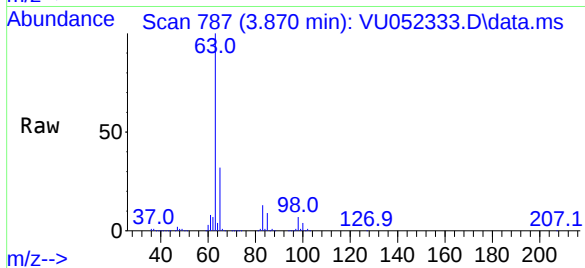


#19
1,1-Dichloroethane
Concen: 244.830 ug/L
RT: 3.870 min Scan# 787
Delta R.T. 0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Instrument :
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ClientSampleId :
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Tgt Ion: 63 Resp: 8147015

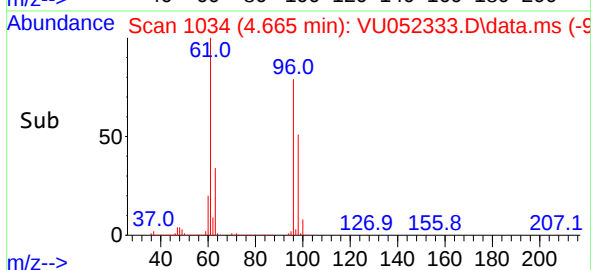
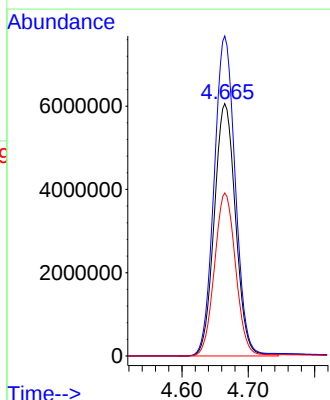
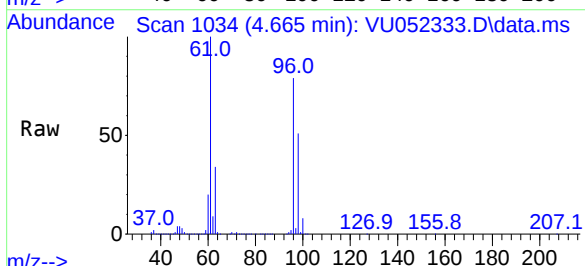
Ion	Ratio	Lower	Upper
63	100		
65	32.4	22.2	41.2
83	13.3	9.2	17.0

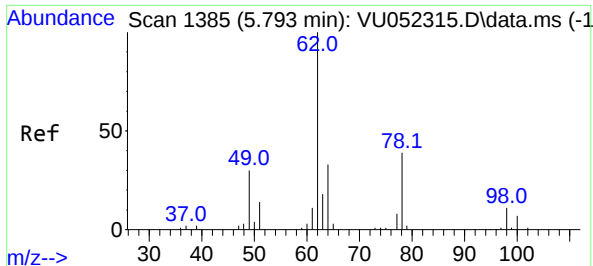


#22
cis-1,2-Dichloroethene
Concen: 698.122 ug/L
RT: 4.665 min Scan# 1034
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion: 96 Resp: 13527514

Ion	Ratio	Lower	Upper
96	100		
61	126.8	85.1	158.1
98	64.6	42.8	79.6

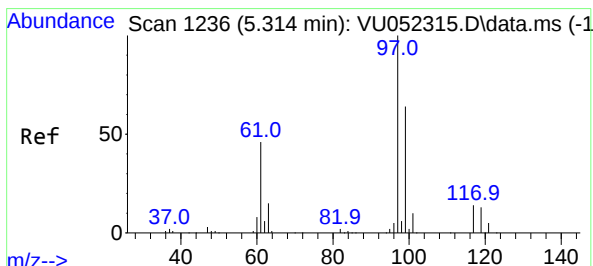
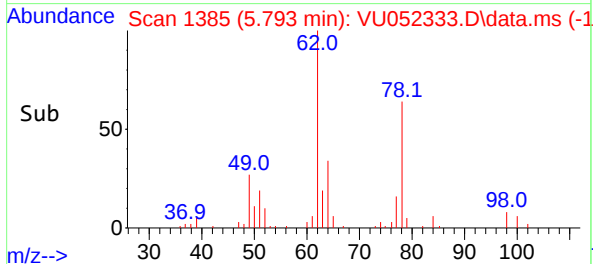
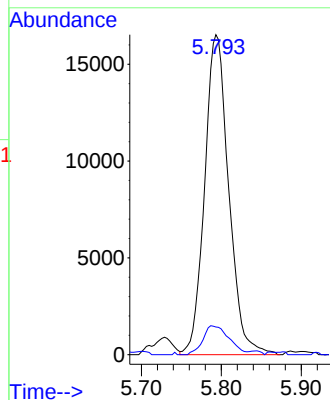
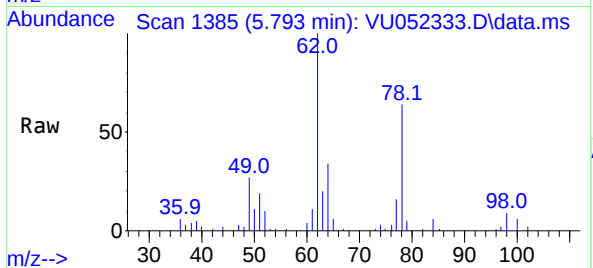




#27
1,2-Dichloroethane
Concen: 1.677 ug/L
RT: 5.793 min Scan# 1385
Delta R.T. -0.000 min
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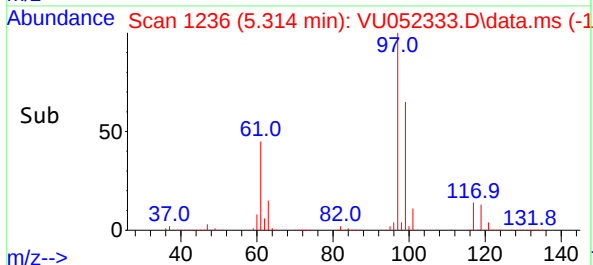
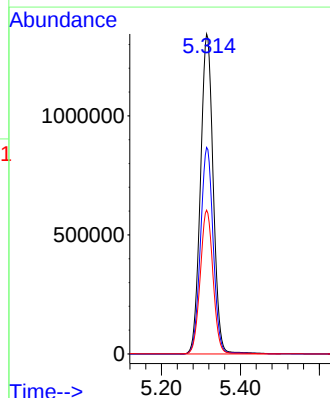
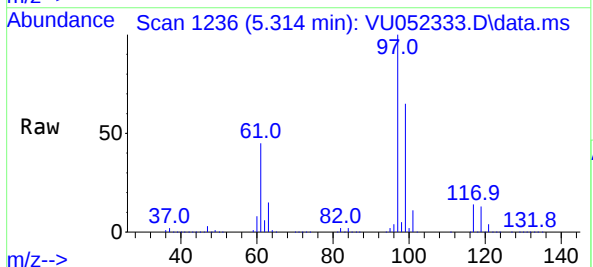
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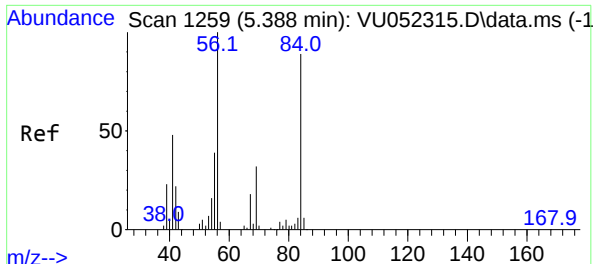
Tgt Ion: 62 Resp: 34643
Ion Ratio Lower Upper
62 100
98 8.6 8.4 12.6



#29
1,1,1-Trichloroethane
Concen: 111.264 ug/L
RT: 5.314 min Scan# 1236
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion: 97 Resp: 3008756
Ion Ratio Lower Upper
97 100
99 64.7 51.0 76.6
61 45.1 36.9 55.3

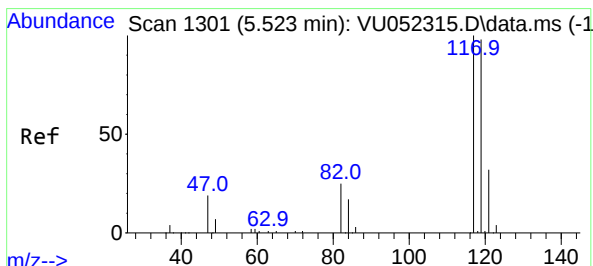
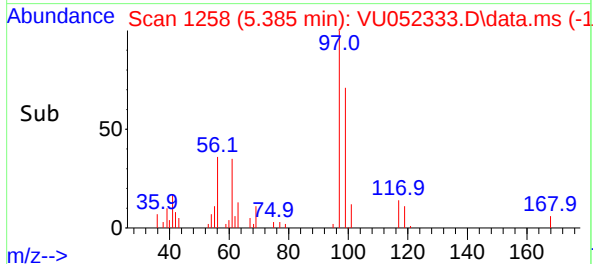
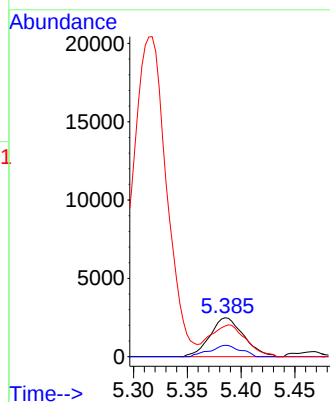
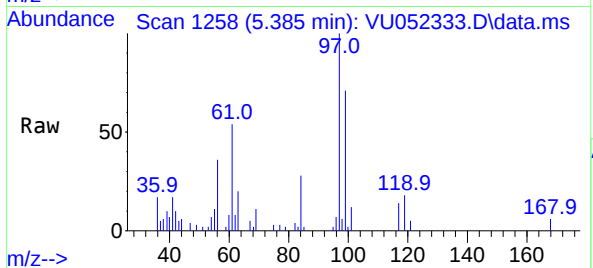




#30
Cyclohexane
Concen: 0.206 ug/L
RT: 5.385 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

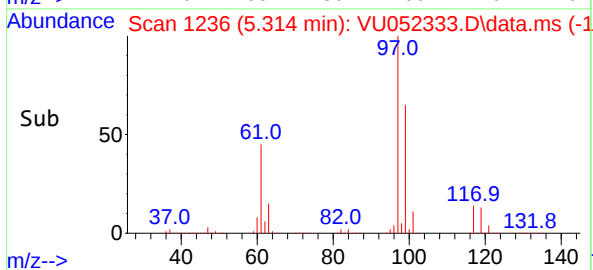
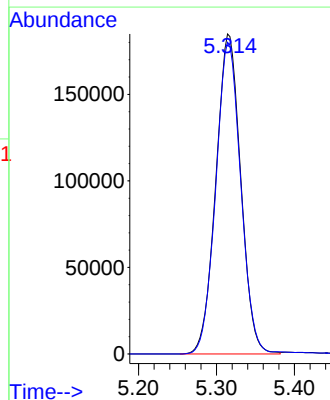
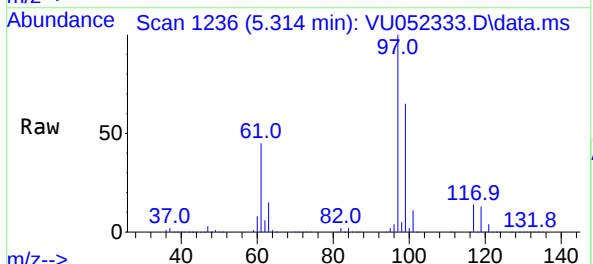
Instrument :
MSVOA_U
ClientSampleId :
EXZ94

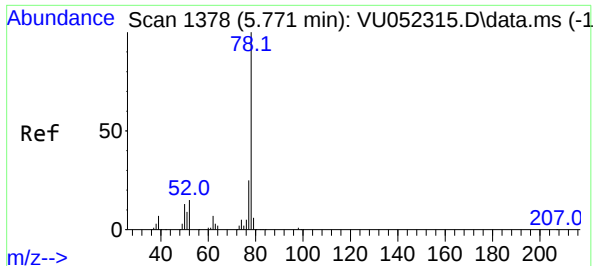
Tgt Ion: 56	Resp: 5413		
Ion Ratio	Lower	Upper	
56	100		
69	26.6	25.6	38.4
84	88.1	72.0	108.0



#31
Carbon tetrachloride
Concen: 17.836 ug/L
RT: 5.314 min Scan# 1236
Delta R.T. -0.209 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:117	Resp: 409827		
Ion	Ratio	Lower	Upper
117	100		
119	97.6	77.2	115.8

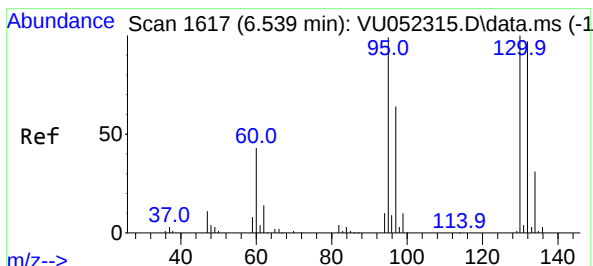
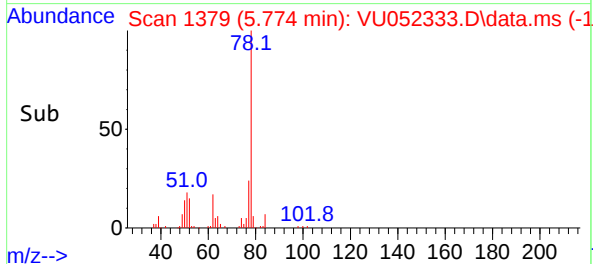
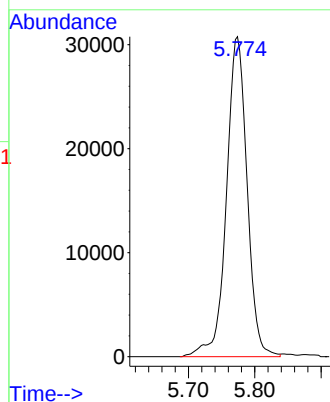
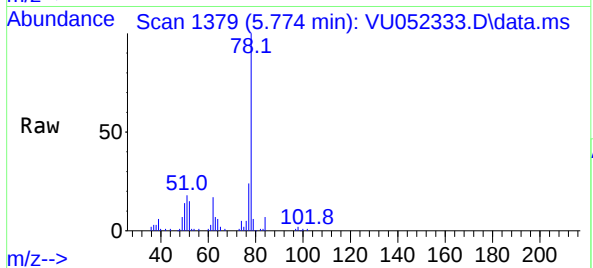




#33
Benzene
Concen: 0.840 ug/L
RT: 5.774 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Instrument :
MSVOA_U
ClientSampleId :
EXZ94

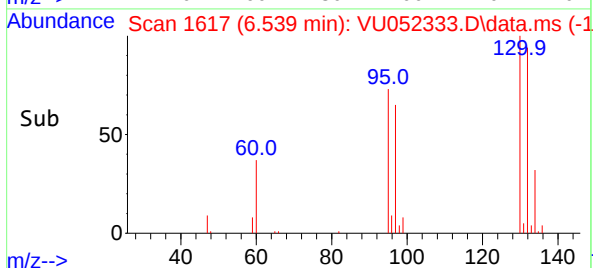
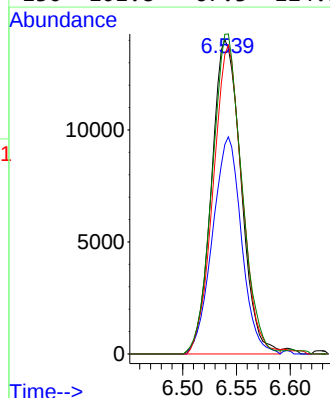
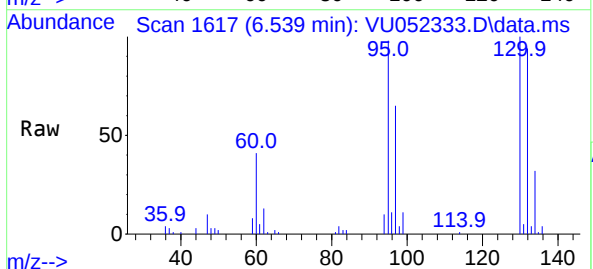
Tgt Ion: 78 Resp: 66658

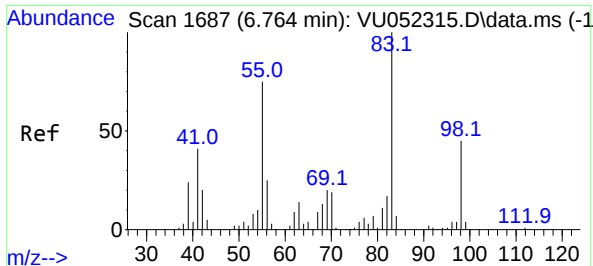


#34
Trichloroethene
Concen: 1.351 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion: 95 Resp: 26722

Ion	Ratio	Lower	Upper
95	100		
97	66.7	43.7	81.1
132	95.3	64.3	119.3
130	101.8	67.3	124.9





#35

Methylcyclohexane

Concen: 0.599 ug/L

RT: 6.758 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

Instrument :

MSVOA_U

ClientSampleId :

EXZ94

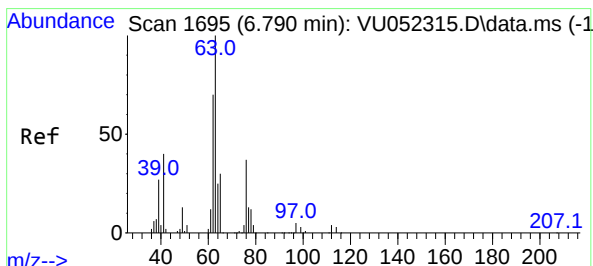
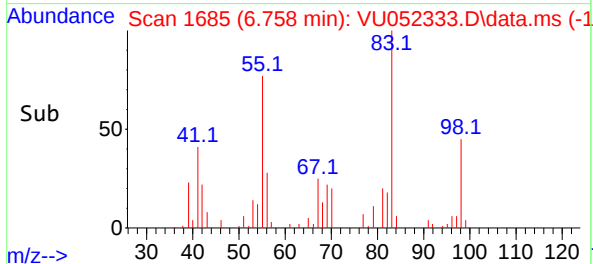
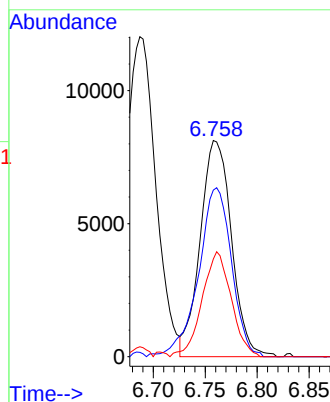
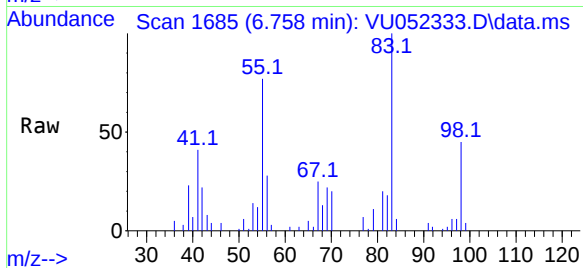
Tgt Ion: 83 Resp: 17052

Ion Ratio Lower Upper

83 100

55 82.7 60.8 91.2

98 45.1 35.1 52.7



#37

1,2-Dichloropropane

Concen: 0.515 ug/L

RT: 6.687 min Scan# 1663

Delta R.T. -0.103 min

Lab File: VU052333.D

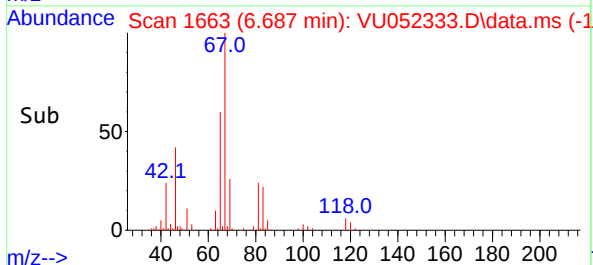
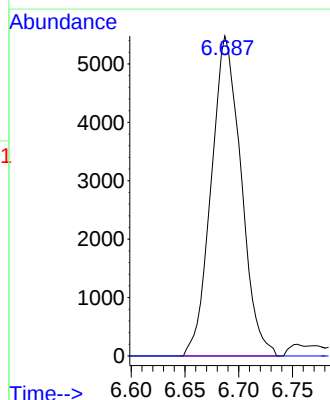
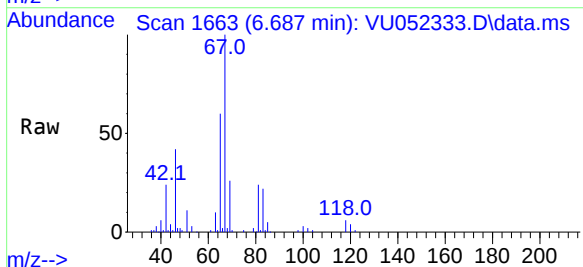
Acq: 10 Dec 2022 03:59

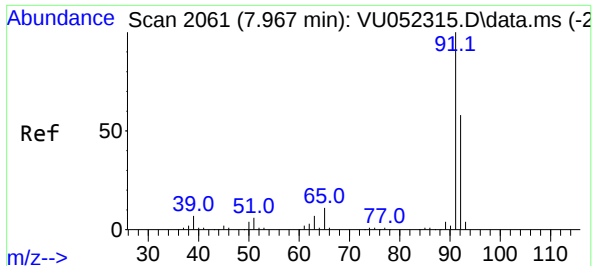
Tgt Ion: 63 Resp: 10581

Ion Ratio Lower Upper

63 100

112 0.0 3.3 4.9#





#42

Toluene

Concen: 7.487 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

Instrument :

MSVOA_U

ClientSampleId :

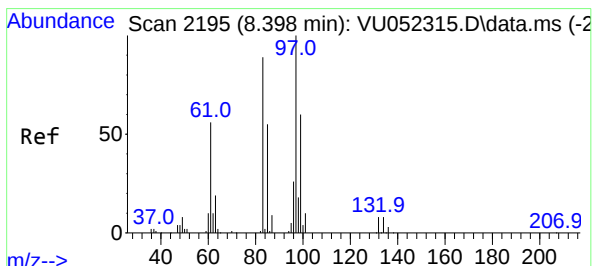
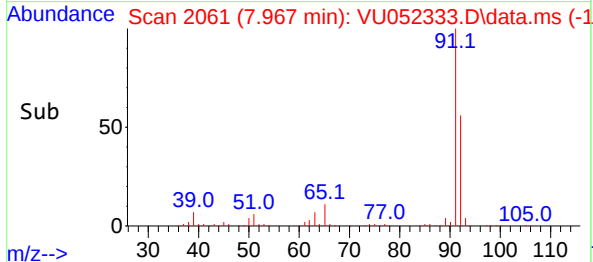
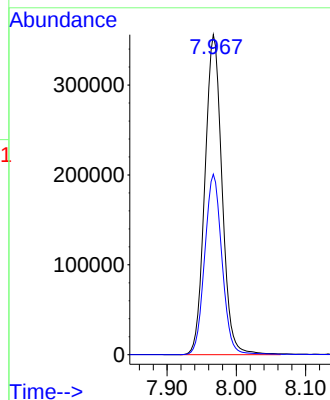
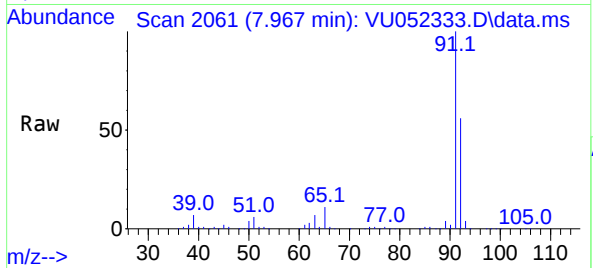
EXZ94

Tgt Ion: 91 Resp: 610871

Ion Ratio Lower Upper

91 100

92 56.4 40.7 75.5



#45

1,1,2-Trichloroethane

Concen: 0.441 ug/L

RT: 8.398 min Scan# 2195

Delta R.T. -0.000 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

Tgt Ion: 97 Resp: 6809

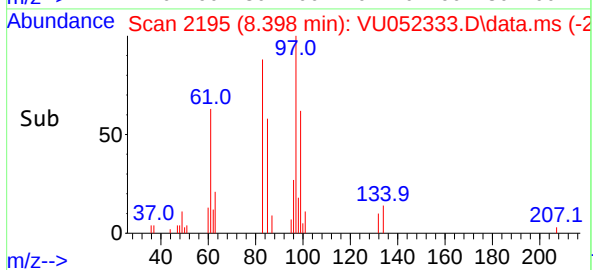
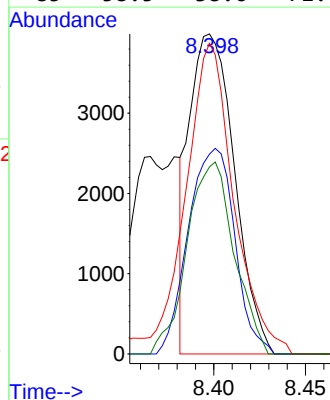
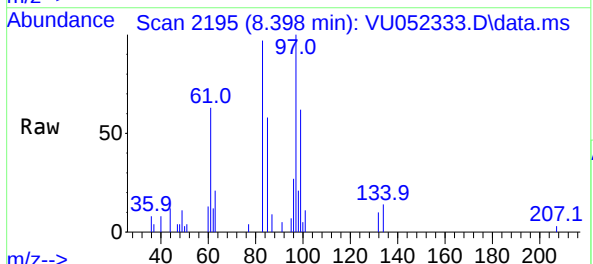
Ion Ratio Lower Upper

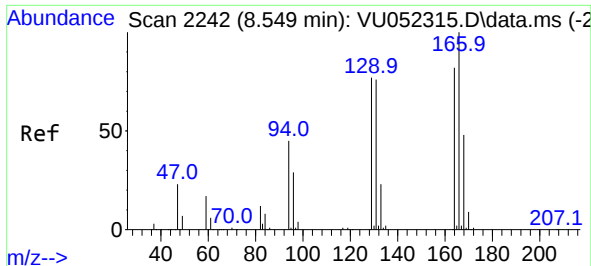
97 100

99 62.4 42.6 79.2

83 97.1 60.7 112.7

85 58.5 38.6 71.6

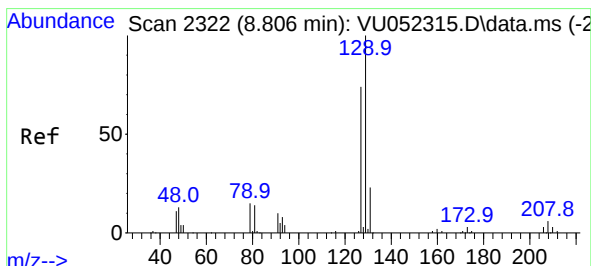
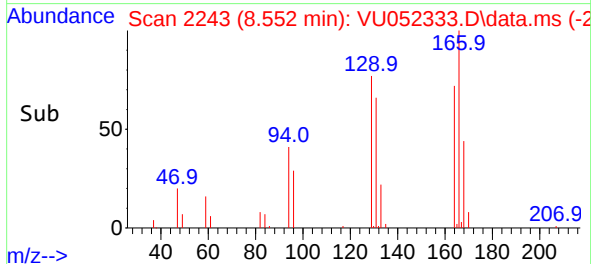
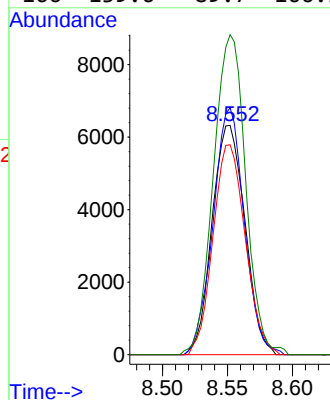
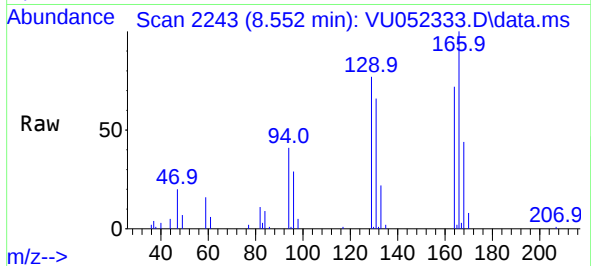




#47
Tetrachloroethene
Concen: 0.733 ug/L
RT: 8.552 min Scan# 211
Delta R.T. 0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

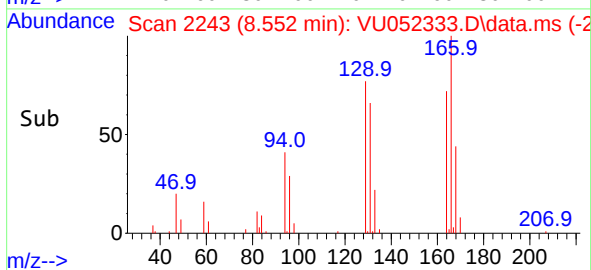
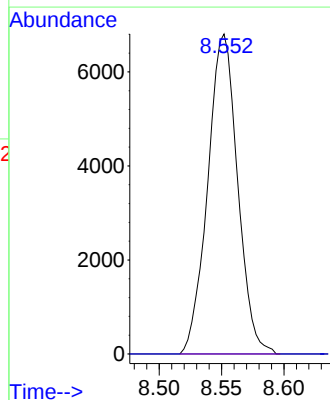
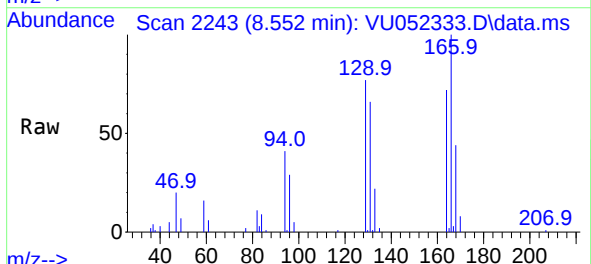
Instrument :
MSVOA_U
ClientSampleId :
EXZ94

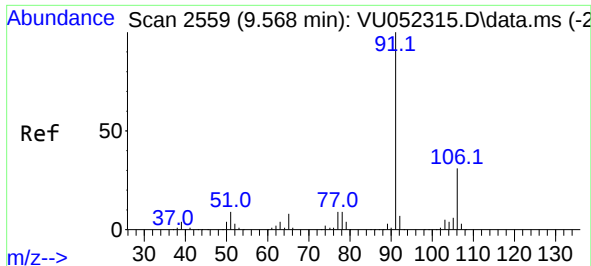
Tgt Ion:164 Resp: 11114
Ion Ratio Lower Upper
164 100
129 107.7 67.4 125.2
131 91.6 67.1 124.7
166 139.6 89.7 166.5



#49
Dibromochloromethane
Concen: 0.658 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.254 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:129 Resp: 11379
Ion Ratio Lower Upper
129 100
127 0.0 52.8 98.2#

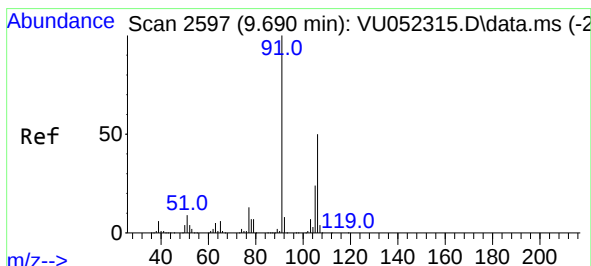
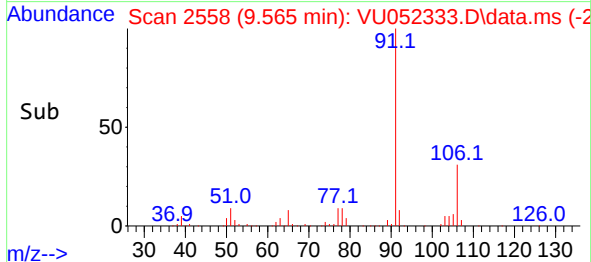
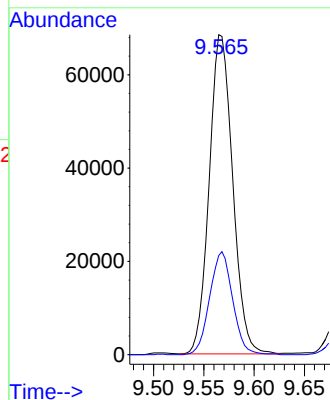
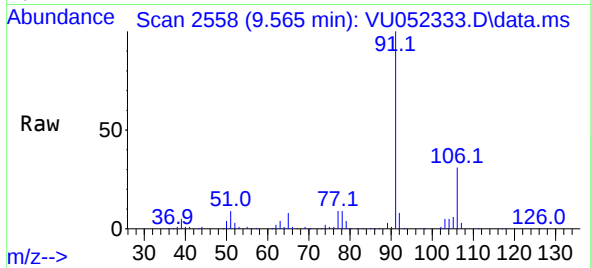




#52
Ethylbenzene
Concen: 1.401 ug/L
RT: 9.565 min Scan# 2111
Delta R.T. -0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

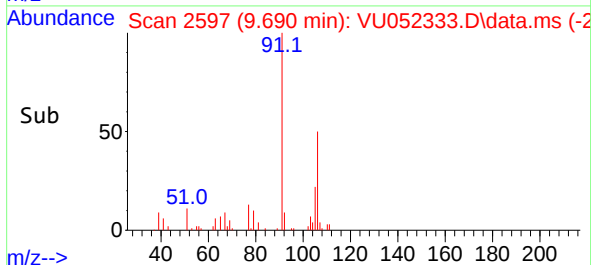
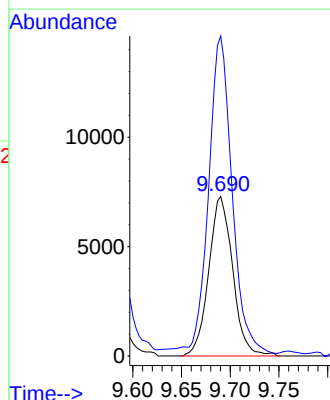
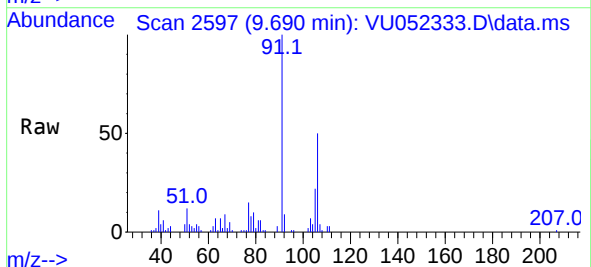
Instrument :
MSVOA_U
ClientSampleId :
EXZ94

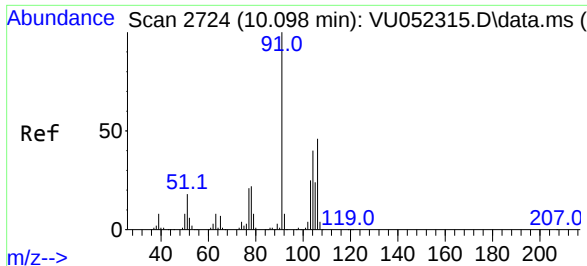
Tgt Ion: 91 Resp: 111115
Ion Ratio Lower Upper
91 100
106 31.0 22.3 41.3



#53
m,p-Xylene
Concen: 0.406 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:106 Resp: 12480
Ion Ratio Lower Upper
106 100
91 200.4 137.7 255.7

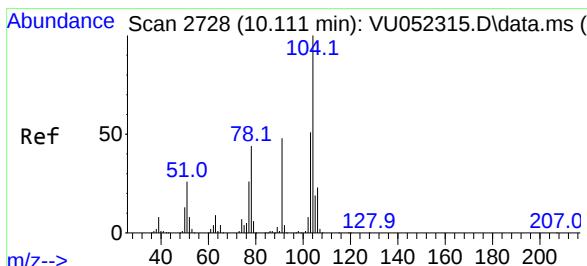
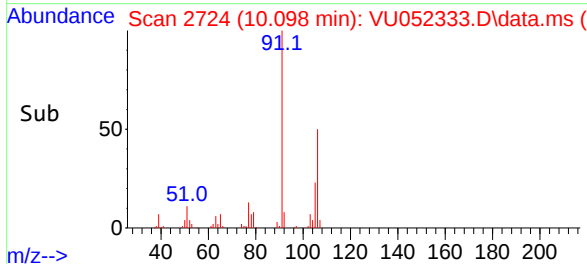
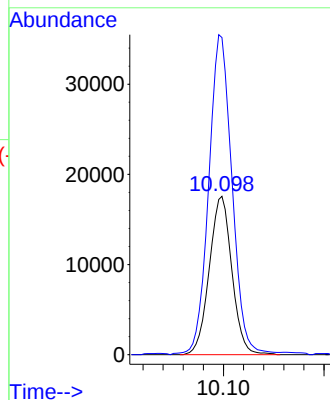
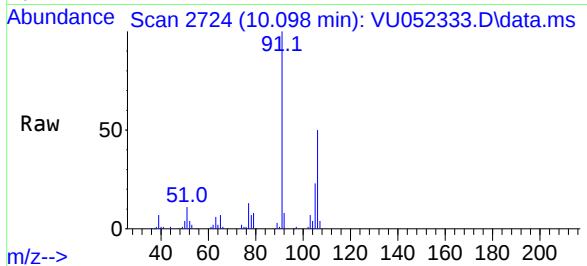




#54
o-Xylene
Concen: 0.931 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

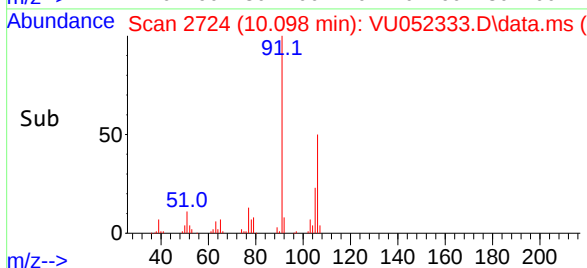
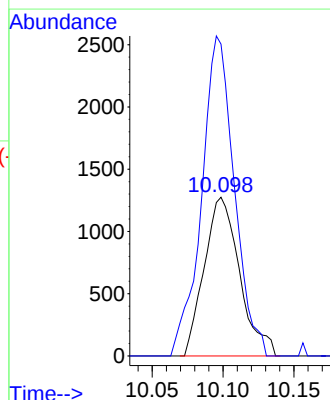
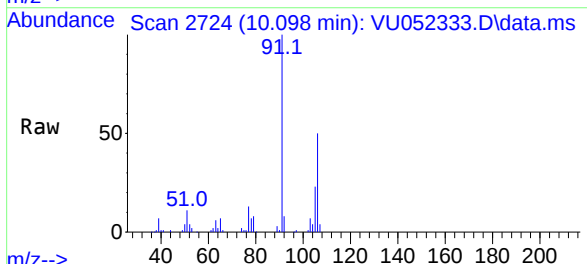
Instrument :
MSVOA_U
ClientSampleId :
EXZ94

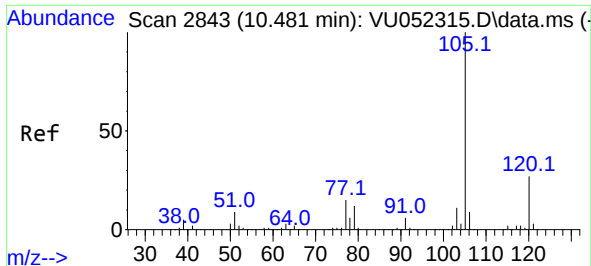
Tgt Ion:106 Resp: 27407
Ion Ratio Lower Upper
106 100
91 200.3 151.5 281.5



#55
Styrene
Concen: 0.045 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.013 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:104 Resp: 2217
Ion Ratio Lower Upper
104 100
78 196.4 30.6 56.8#

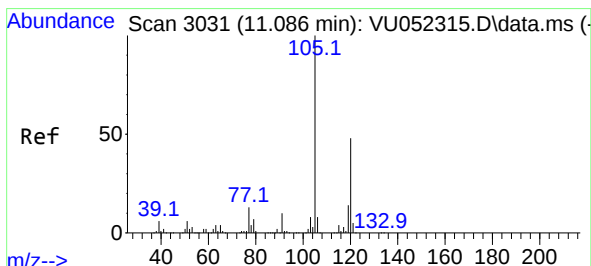
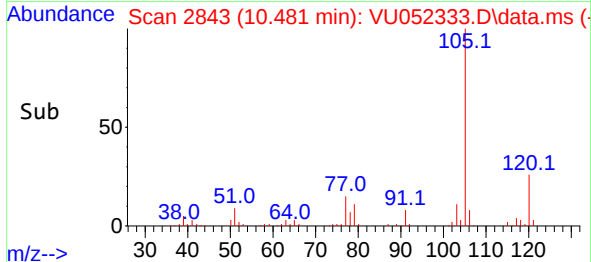
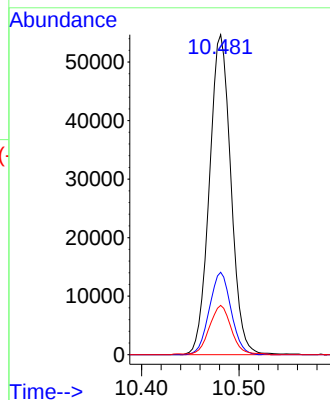
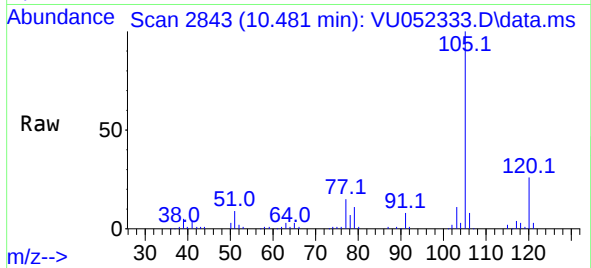




#60
Isopropylbenzene
Concen: 1.038 ug/L
RT: 10.481 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

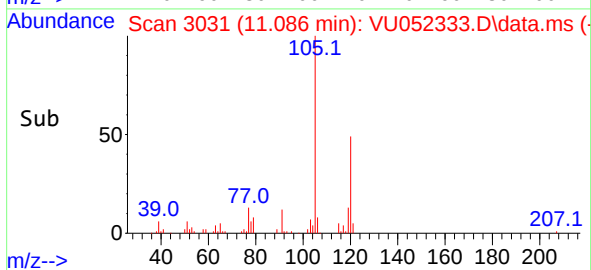
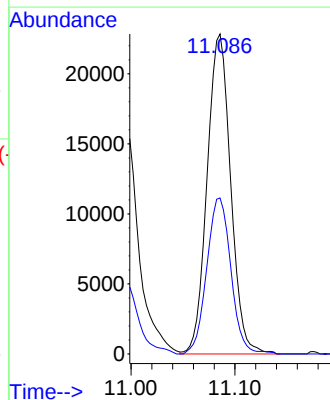
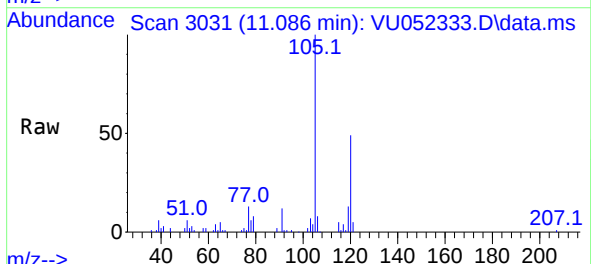
Instrument :
MSVOA_U
ClientSampleId :
EXZ94

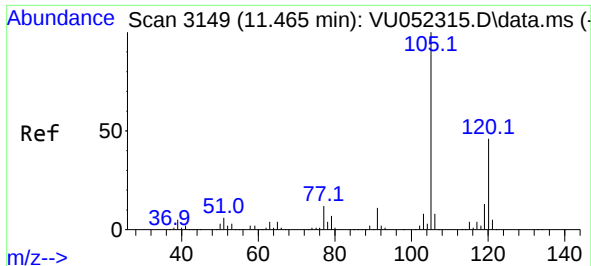
Tgt Ion:105 Resp: 83659
Ion Ratio Lower Upper
105 100
120 26.0 21.0 31.6
77 15.9 12.5 18.7



#62
1,3,5-Trimethylbenzene
Concen: 0.559 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:105 Resp: 35986
Ion Ratio Lower Upper
105 100
120 50.0 38.7 58.1

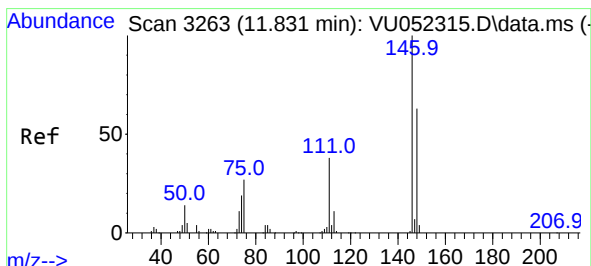
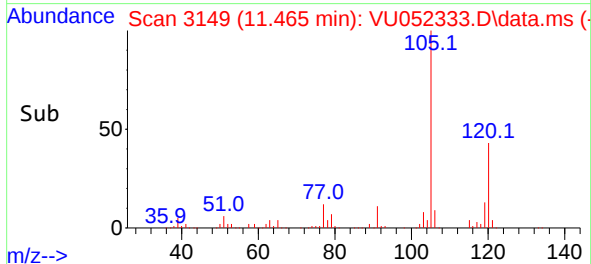
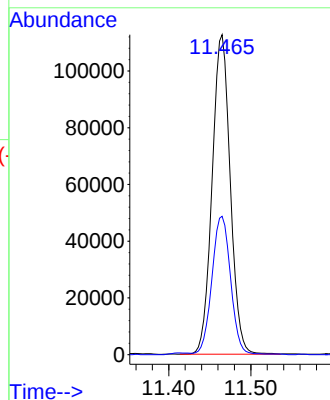
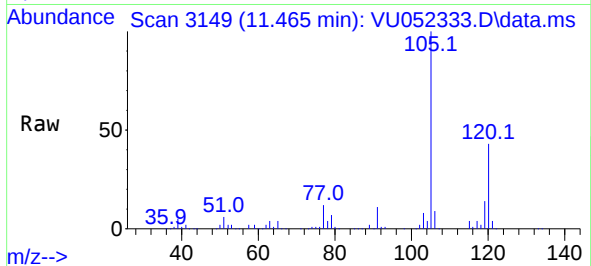




#63
1,2,4-Trimethylbenzene
Concen: 2.700 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

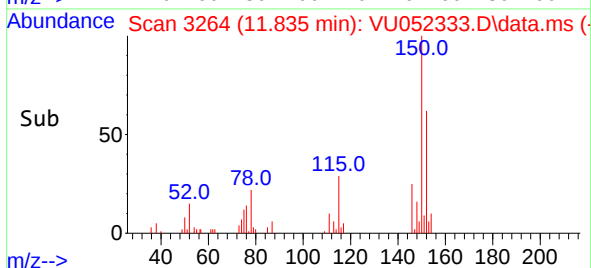
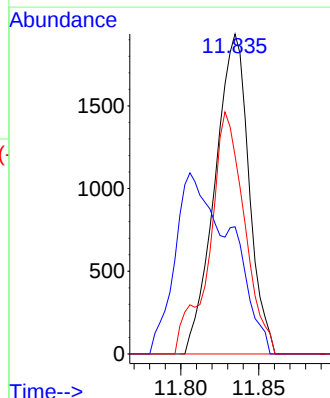
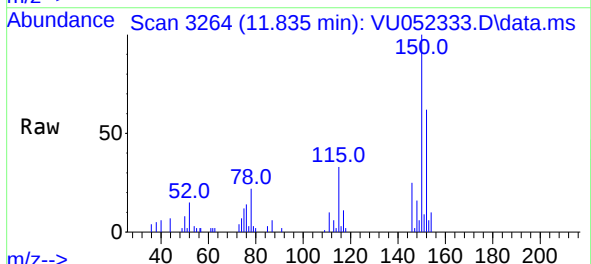
Instrument :
MSVOA_U
ClientSampleId :
EXZ94

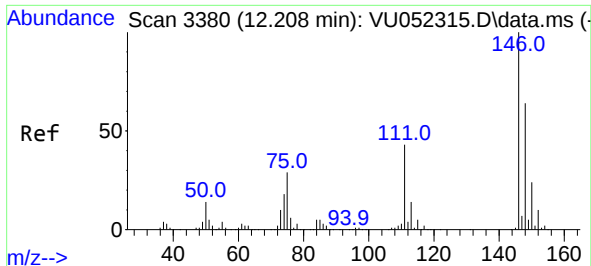
Tgt Ion:105 Resp: 172685
Ion Ratio Lower Upper
105 100
120 44.2 36.6 55.0



#65
1,4-Dichlorobenzene
Concen: 0.071 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.003 min
Lab File: VU052333.D
Acq: 10 Dec 2022 03:59

Tgt Ion:146 Resp: 2933
Ion Ratio Lower Upper
146 100
111 39.7 26.9 50.1
148 61.9 45.1 83.7





#67

1,2-Dichlorobenzene

Concen: 0.823 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

Instrument :

MSVOA_U

ClientSampleId :

EXZ94

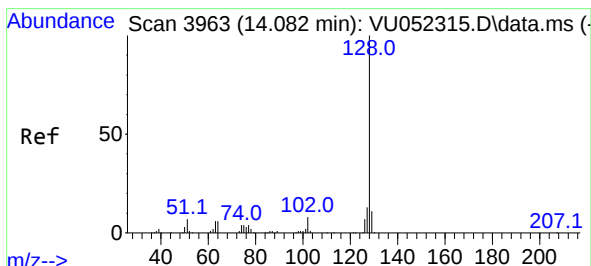
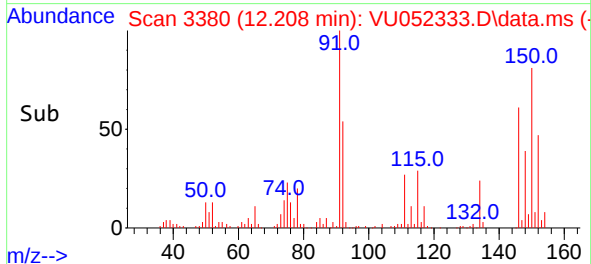
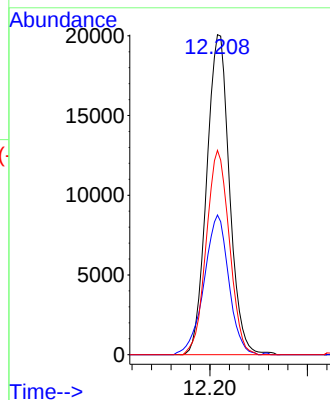
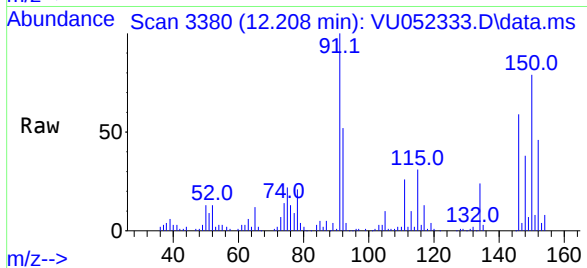
Tgt Ion:146 Resp: 32597

Ion Ratio Lower Upper

146 100

111 43.6 32.7 49.1

148 63.9 50.6 75.8



#71

Naphthalene

Concen: 1.939 ug/L

RT: 14.082 min Scan# 3963

Delta R.T. -0.000 min

Lab File: VU052333.D

Acq: 10 Dec 2022 03:59

Tgt Ion:128 Resp: 80892

Ion Ratio Lower Upper

128 100

129 11.3 8.3 12.5

127 13.2 10.2 15.4

