

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101122\
 Data File : VU051375.D
 Acq On : 11 Oct 2022 16:27
 Operator : JC/MD
 Sample : N5041-02DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BGS19DL

Quant Time: Oct 11 23:38:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Oct 11 23:36:07 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	1503	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	2152	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	2780	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	102	0.841	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	16.800%#
7) Chloroethane-d5	1.916	69	79	0.758	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	15.200%#
11) 1,1-Dichloroethene-d2	2.572	65	45	0.939	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	18.800%#
20) 2-Butanone-d5	4.658	46	506	18.956	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	37.920%#
24) Chloroform-d	5.057	84	227	1.004	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	20.000%#
26) 1,2-Dichloroethane-d4	5.710	65	972	8.339	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	166.800%#
32) Benzene-d6	5.726	84	543	0.917	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	18.400%#
36) 1,2-Dichloropropane-d6	6.690	67	429	2.134	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	42.600%#
41) Toluene-d8	7.902	98	1450	2.738	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	54.800%#
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	5.000	Range	55 - 130	Recovery	=	0.000%#
46) 2-Hexanone-d5	8.642	63	170	7.636	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	15.280%#
56) 1,1,2,2-Tetrachloroeth...	10.761	84	767	4.776	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.600%
66) 1,2-Dichlorobenzene-d4	12.205	152	1824	3.775	ug/L	0.01
Spiked Amount	5.000	Range	80 - 120	Recovery	=	75.400%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	66	0.538	ug/L #	42
3) Chloromethane	1.520	50	947	5.501	ug/L	91
5) Vinyl chloride	1.768	62	19	0.113	ug/L #	40
6) Bromomethane	1.851	94	118	1.283	ug/L #	3
8) Chloroethane	2.018	64	250	2.322	ug/L	96
12) 1,1-Dichloroethene	2.613	96	46	0.420	ug/L #	1
13) Acetone	2.649	43	892	44.555	ug/L	84
14) Carbon disulfide	2.790	76	346	1.031	ug/L #	76
15) Methyl Acetate	2.887	43	22	0.452	ug/L #	50
16) Methylene chloride	3.041	84	13104	80.967	ug/L	97
17) Methyl tert-butyl Ether	3.369	73	2248	8.954	ug/L	99
18) trans-1,2-Dichloroethene	3.356	96	45	0.390	ug/L #	1
21) 2-Butanone	4.655	43	401	12.709	ug/L	83
22) cis-1,2-Dichloroethene	4.665	96	81008	634.224	ug/L	96
25) Chloroform	5.089	83	464	1.867	ug/L	96
27) 1,2-Dichloroethane	5.793	62	365	2.452	ug/L #	74
34) Trichloroethene	6.546	95	299	1.668	ug/L #	71
35) Methylcyclohexane	6.687	83	44	0.195	ug/L #	16
40) 4-Methyl-2-pentanone	7.796	43	165	1.597	ug/L #	1

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

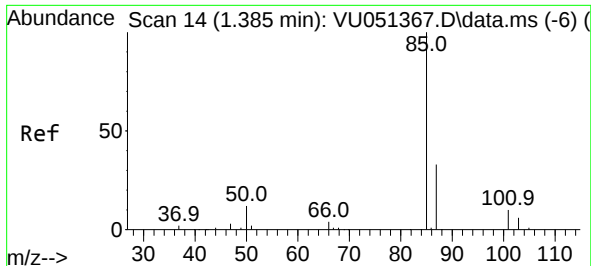
42) Toluene	7.967	91	1082	1.419	ug/L	90
45) 1,1,2-Trichloroethane	8.398	97	599	4.333	ug/L #	82
48) 2-Hexanone	8.690	43	3802	49.427	ug/L #	74
52) Ethylbenzene	9.578	91	109	0.159	ug/L #	45
53) m,p-Xylene	9.703	106	74	0.278	ug/L #	50
55) Styrene	10.121	104	19	0.044	ug/L #	30
60) Isopropylbenzene	10.488	105	110	0.062	ug/L #	54
61) 1,2,3-Trichloropropane	11.816	75	181	0.516	ug/L #	50
62) 1,3,5-Trimethylbenzene	11.478	105	74	0.158	ug/L #	30
64) 1,3-Dichlorobenzene	11.758	146	144	0.165	ug/L #	25
67) 1,2-Dichlorobenzene	12.214	146	115	0.136	ug/L #	24
70) 1,2,4-trichlorobenzene	13.848	180	121	0.284	ug/L #	75
71) Naphthalene	14.108	128	353	0.445	ug/L #	68
72) 1,2,3-Trichlorobenzene	14.336	180	162	0.367	ug/L #	12

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

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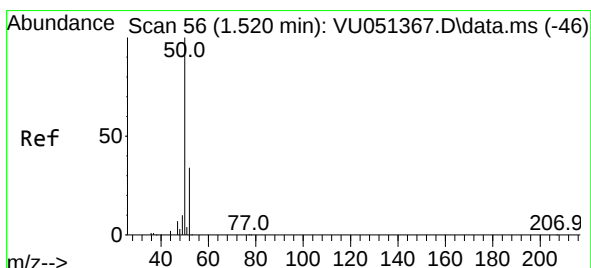
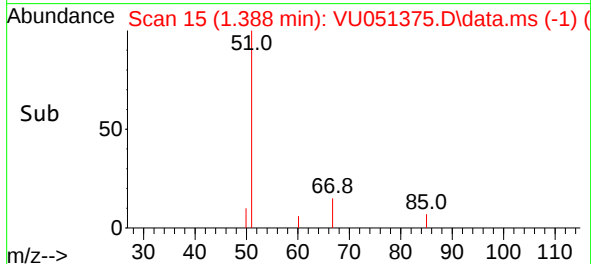
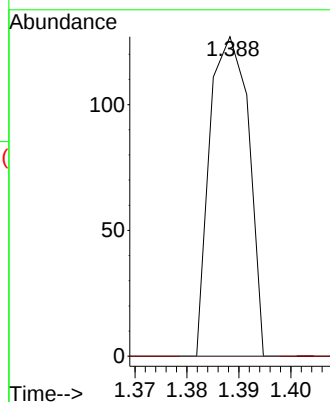
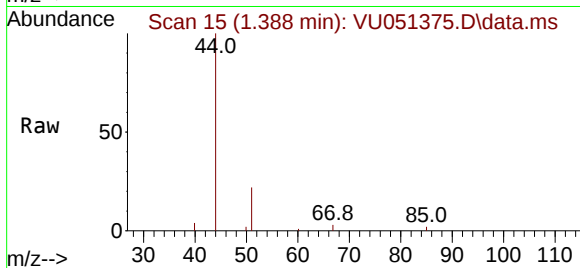




#2
 Dichlorodifluoromethane
 Concen: 0.538 ug/L
 RT: 1.388 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VU051375.D
 Acq: 11 Oct 2022 16:27

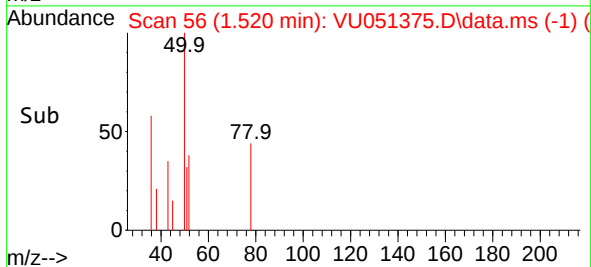
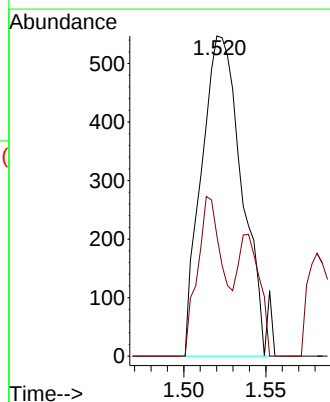
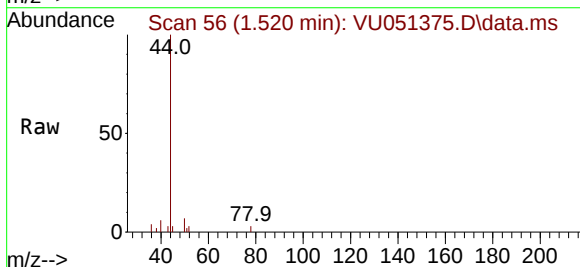
Instrument :
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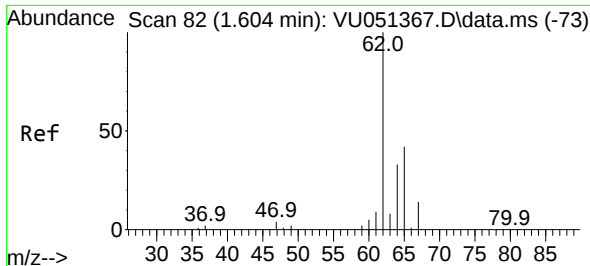
Tgt Ion: 85 Resp: 66
 Ion Ratio Lower Upper
 85 100
 87 0.0 26.2 39.4#



#3
 Chloromethane
 Concen: 5.501 ug/L
 RT: 1.520 min Scan# 56
 Delta R.T. 0.000 min
 Lab File: VU051375.D
 Acq: 11 Oct 2022 16:27

Tgt Ion: 50 Resp: 947
 Ion Ratio Lower Upper
 50 100
 52 37.7 22.9 42.5

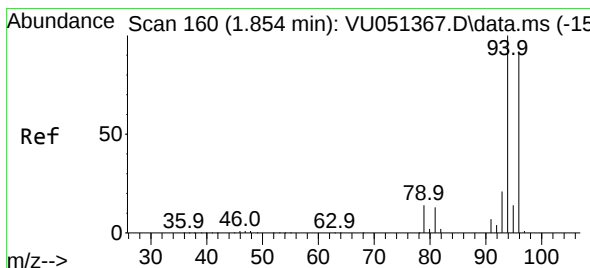
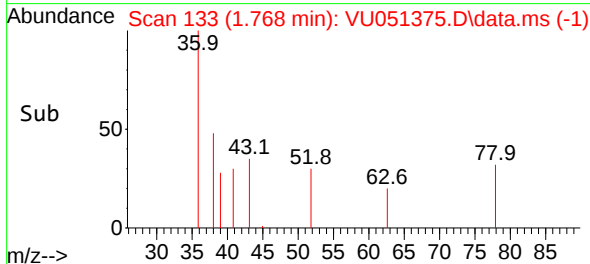
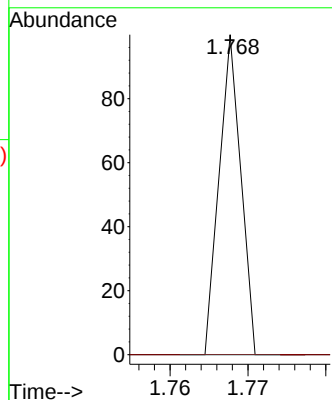
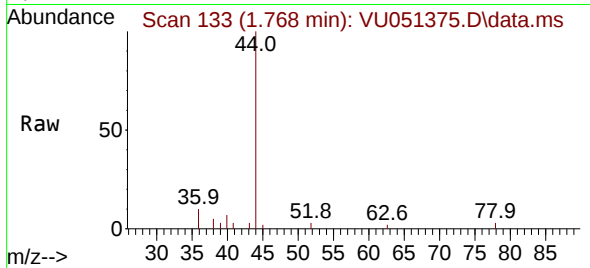




#5
 Vinyl chloride
 Concen: 0.113 ug/L
 RT: 1.768 min Scan# 11
 Delta R.T. 0.164 min
 Lab File: VU051375.D
 Acq: 11 Oct 2022 16:27

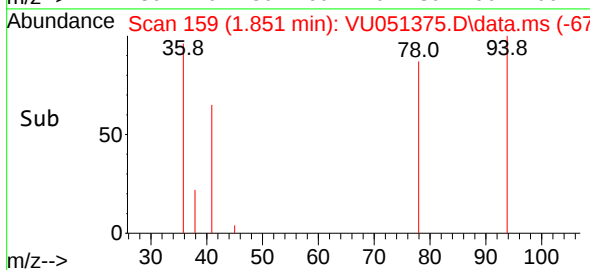
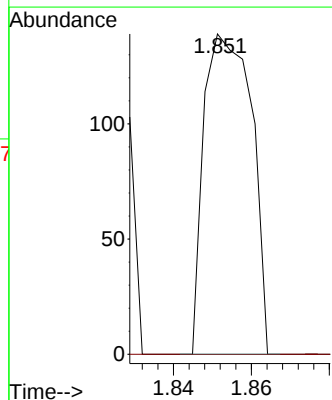
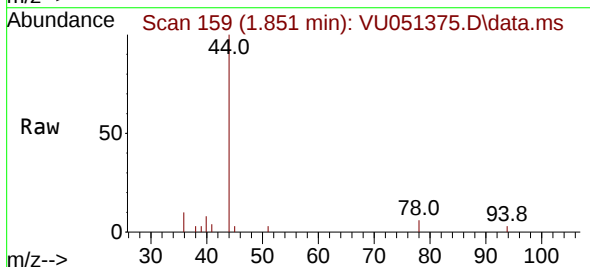
Instrument :
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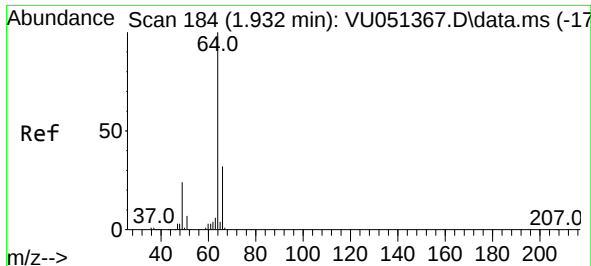
Tgt Ion: 62 Resp: 19
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.0 44.6#



#6
 Bromomethane
 Concen: 1.283 ug/L
 RT: 1.851 min Scan# 159
 Delta R.T. -0.003 min
 Lab File: VU051375.D
 Acq: 11 Oct 2022 16:27

Tgt Ion: 94 Resp: 118
 Ion Ratio Lower Upper
 94 100
 96 0.0 64.9 120.5#

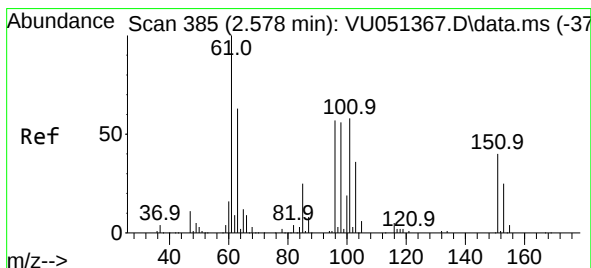
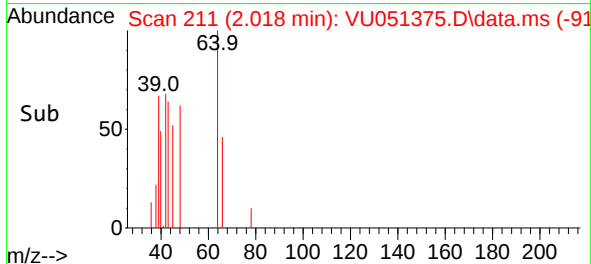
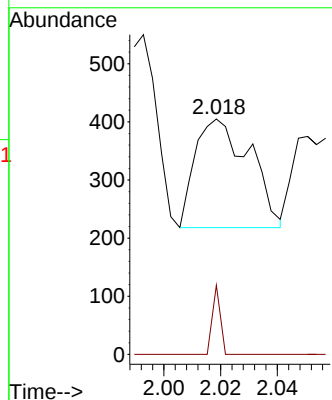
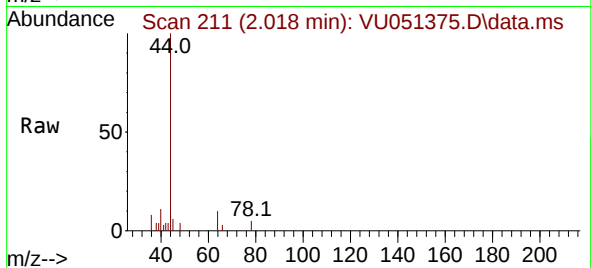




#8
Chloroethane
Concen: 2.322 ug/L
RT: 2.018 min Scan# 211
Delta R.T. 0.087 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

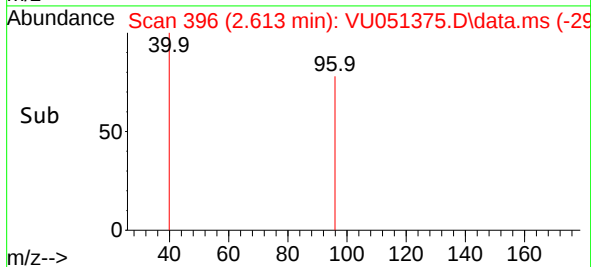
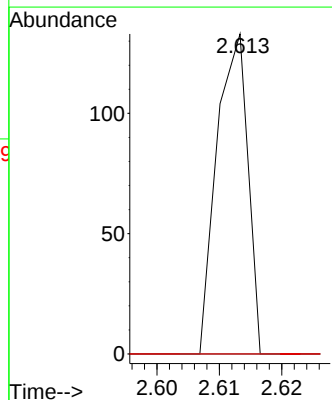
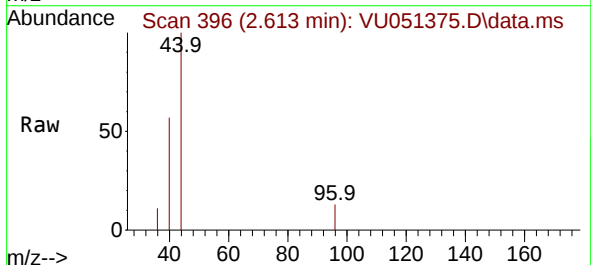
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ClientSampleId :
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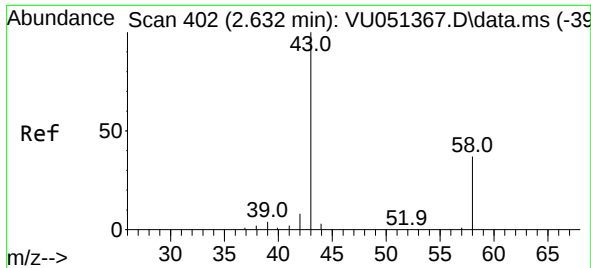
Tgt Ion: 64 Resp: 250
Ion Ratio Lower Upper
64 100
66 29.4 22.3 41.3



#12
1,1-Dichloroethene
Concen: 0.420 ug/L
RT: 2.613 min Scan# 396
Delta R.T. 0.035 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 96 Resp: 46
Ion Ratio Lower Upper
96 100
61 0.0 117.6 218.4#
63 0.0 85.2 158.2#

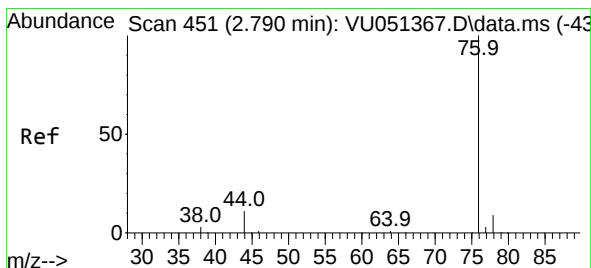
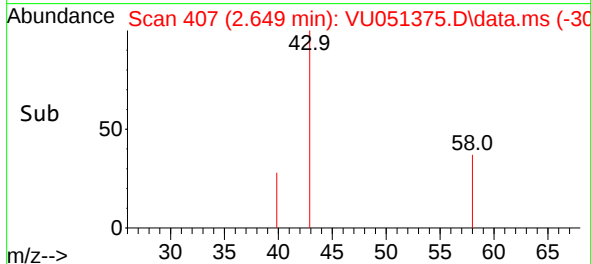
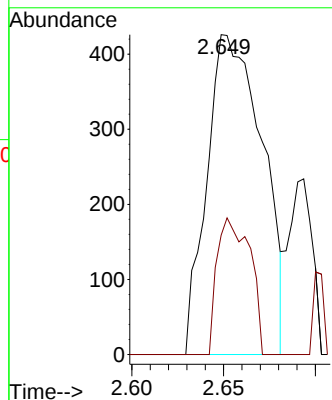
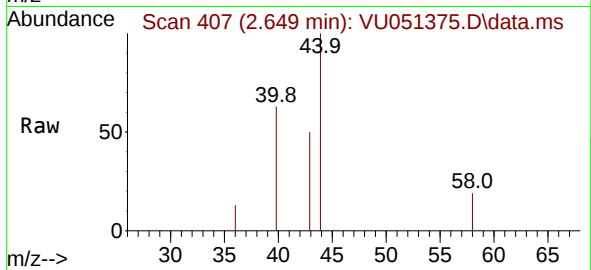




#13
Acetone
Concen: 44.555 ug/L
RT: 2.649 min Scan# 407
Delta R.T. 0.016 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

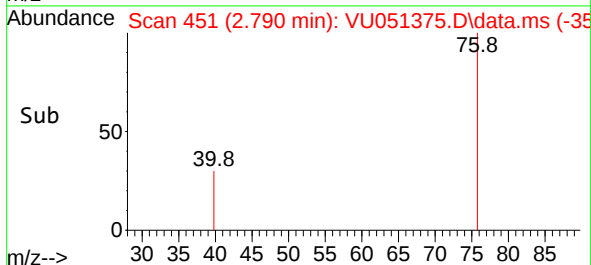
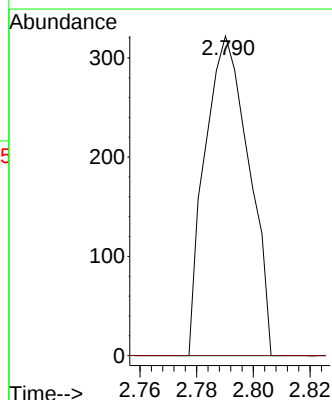
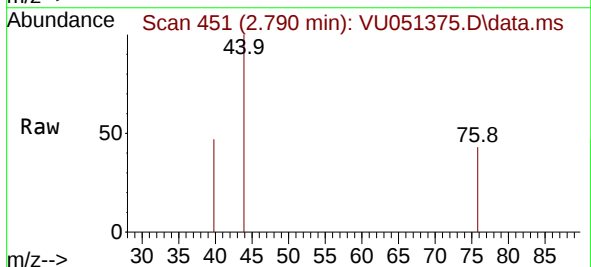
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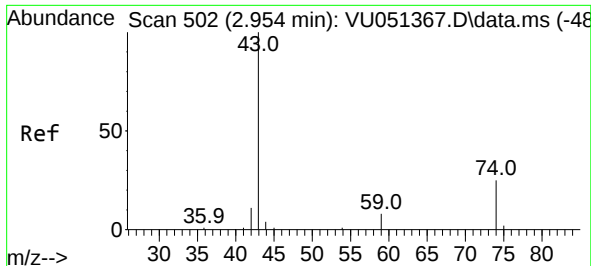
Tgt Ion: 43 Resp: 892
Ion Ratio Lower Upper
43 100
58 25.3 0.0 68.8



#14
Carbon disulfide
Concen: 1.031 ug/L
RT: 2.790 min Scan# 451
Delta R.T. 0.000 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 76 Resp: 346
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

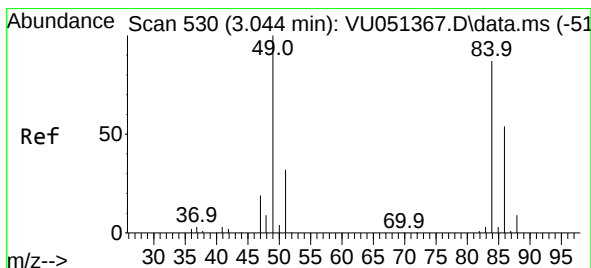
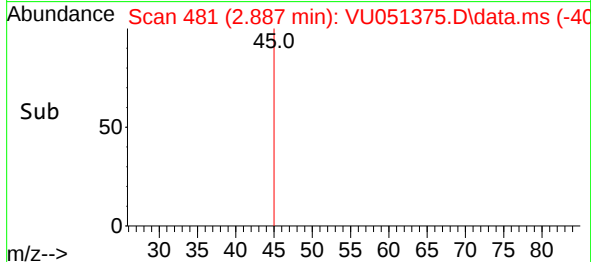
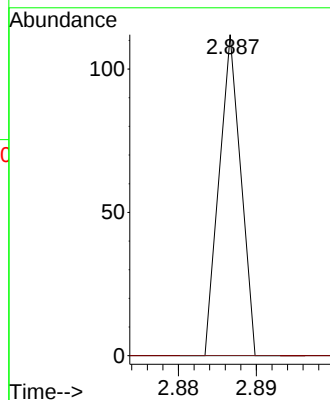
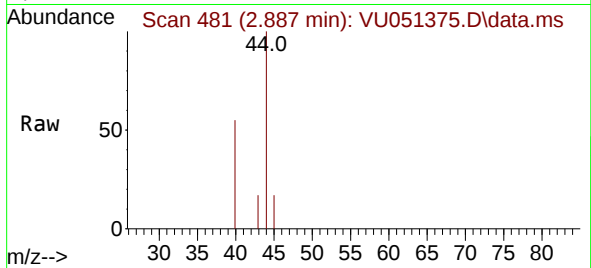




#15
Methyl Acetate
Concen: 0.452 ug/L
RT: 2.887 min Scan# 41
Delta R.T. -0.067 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

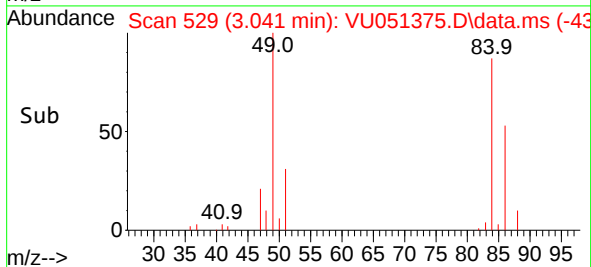
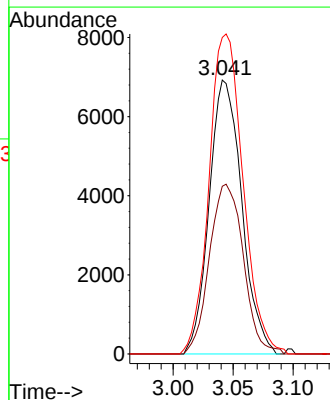
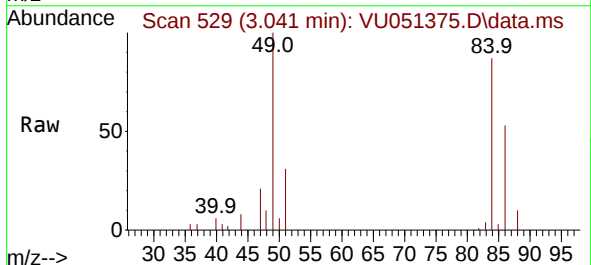
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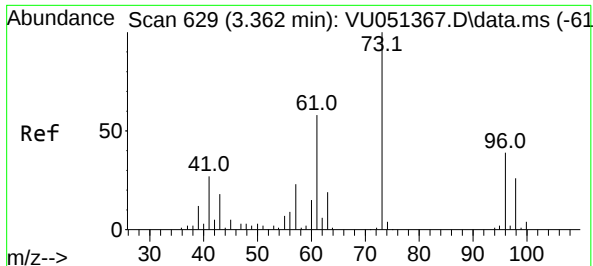
Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
74 0.0 20.0 30.0#



#16
Methylene chloride
Concen: 80.967 ug/L
RT: 3.041 min Scan# 529
Delta R.T. -0.003 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 84 Resp: 13104
Ion Ratio Lower Upper
84 100
86 61.2 46.5 86.3
49 115.6 81.3 151.1

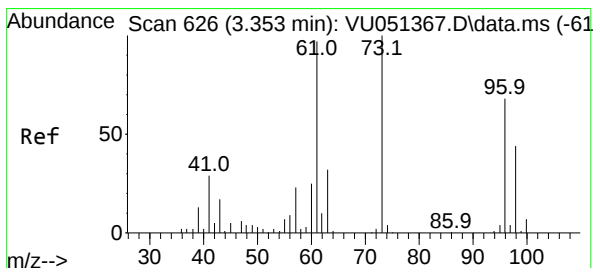
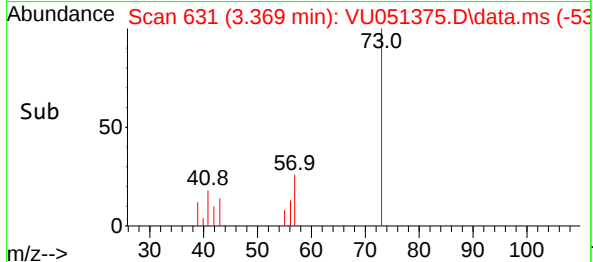
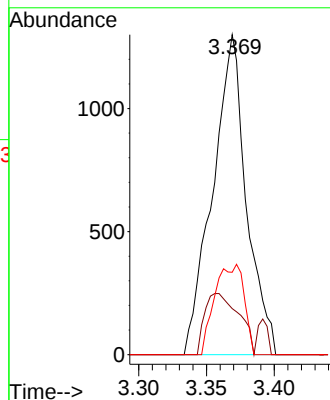
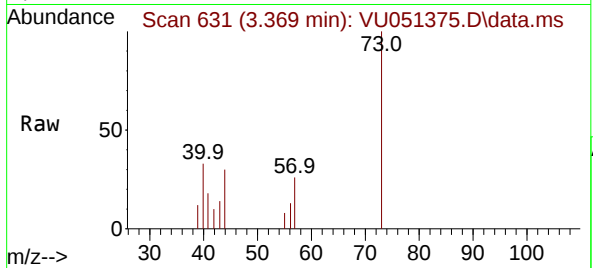




#17
Methyl tert-butyl Ether
Concen: 8.954 ug/L
RT: 3.369 min Scan# 61
Delta R.T. 0.007 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

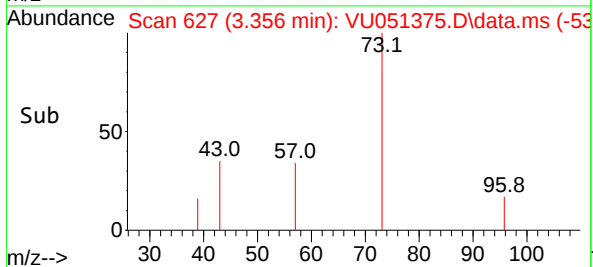
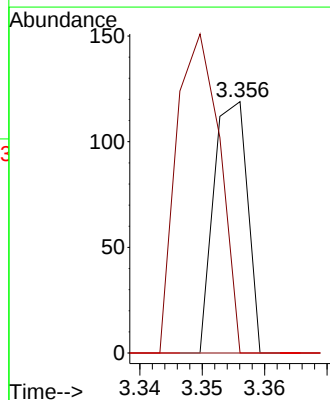
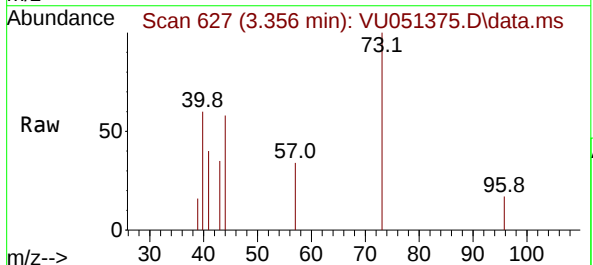
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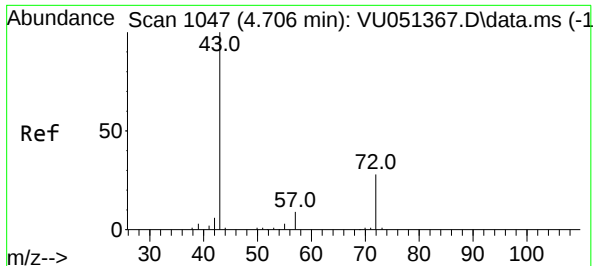
Tgt Ion: 73 Resp: 2248
Ion Ratio Lower Upper
73 100
43 19.3 15.4 23.0
57 24.5 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 0.390 ug/L
RT: 3.356 min Scan# 627
Delta R.T. 0.003 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 96 Resp: 45
Ion Ratio Lower Upper
96 100
61 0.0 101.4 188.2#
98 0.0 44.9 83.5#





#21

2-Butanone

Concen: 12.709 ug/L

RT: 4.655 min Scan# 1031

Delta R.T. -0.051 min

Lab File: VU051375.D

Acq: 11 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

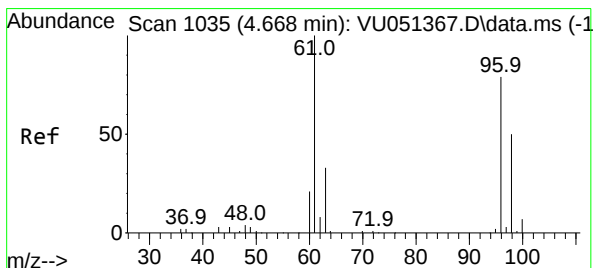
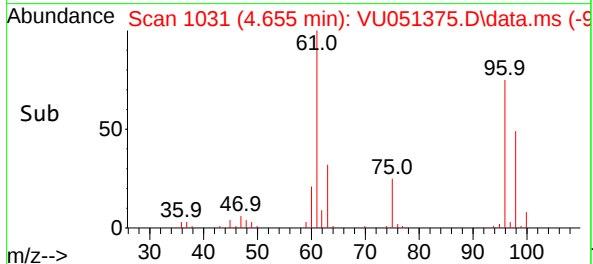
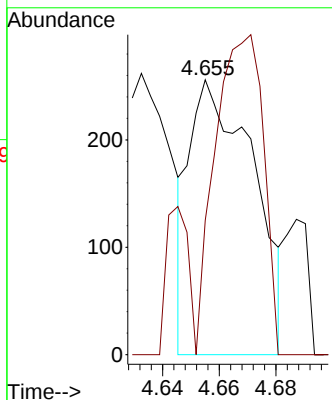
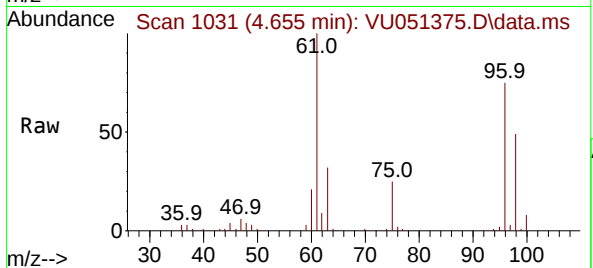
BGS19DL

Tgt Ion: 43 Resp: 401

Ion Ratio Lower Upper

43 100

72 18.5 13.8 41.4



#22

cis-1,2-Dichloroethene

Concen: 634.224 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.003 min

Lab File: VU051375.D

Acq: 11 Oct 2022 16:27

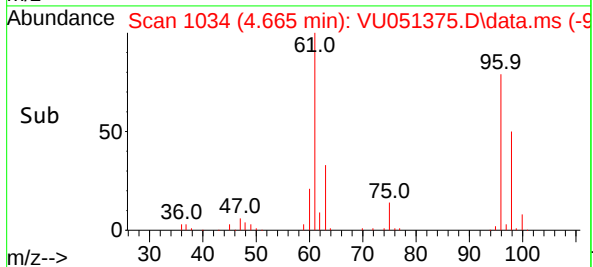
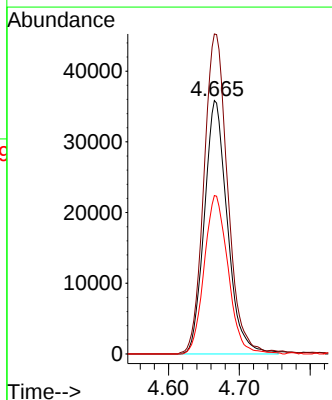
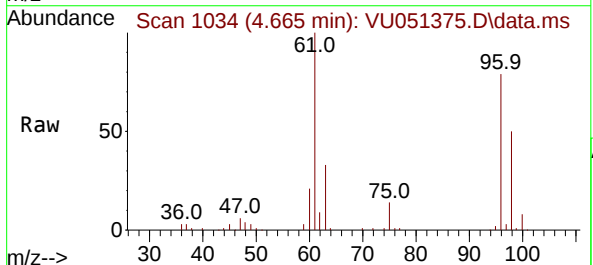
Tgt Ion: 96 Resp: 81008

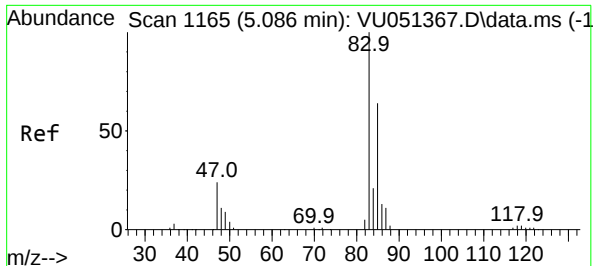
Ion Ratio Lower Upper

96 100

61 126.3 90.6 168.2

98 62.5 47.5 88.3





#25

Chloroform

Concen: 1.867 ug/L

RT: 5.089 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VU051375.D

Acq: 11 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

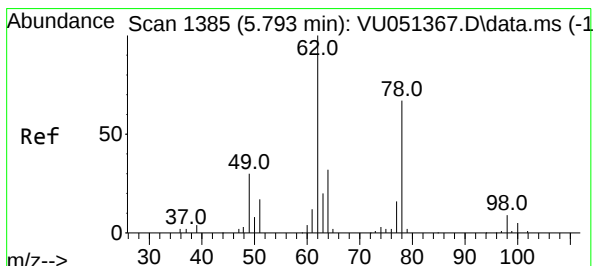
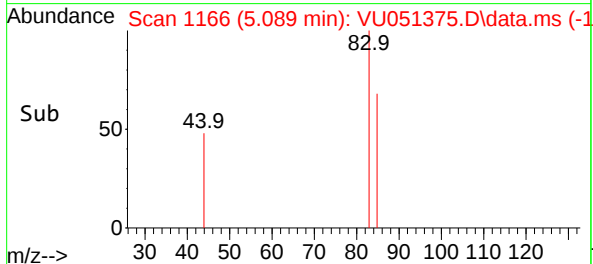
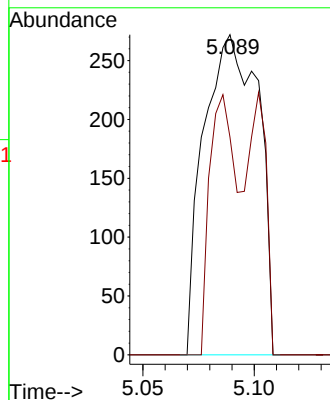
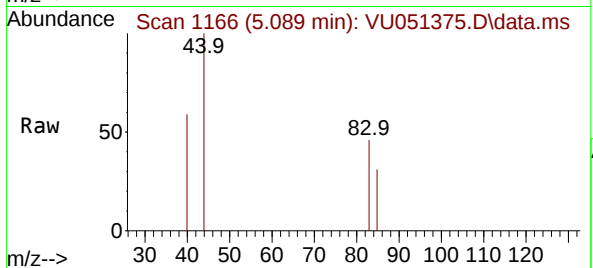
BGS19DL

Tgt Ion: 83 Resp: 464

Ion Ratio Lower Upper

83 100

85 68.0 45.6 84.6



#27

1,2-Dichloroethane

Concen: 2.452 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU051375.D

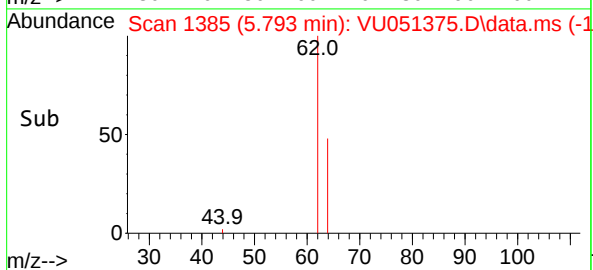
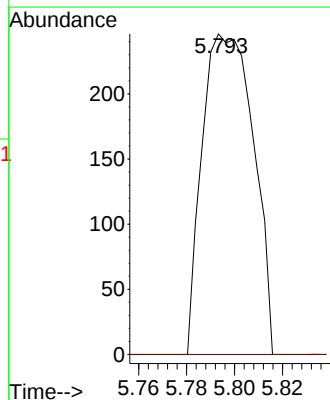
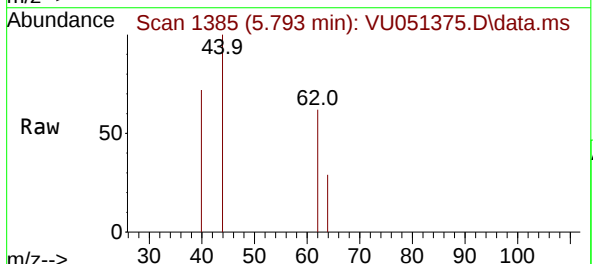
Acq: 11 Oct 2022 16:27

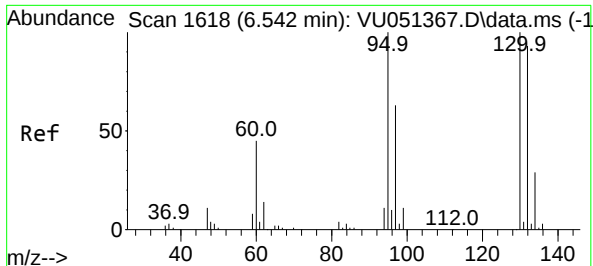
Tgt Ion: 62 Resp: 365

Ion Ratio Lower Upper

62 100

98 0.0 7.7 11.5#

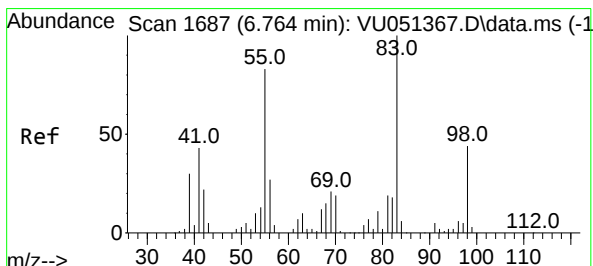
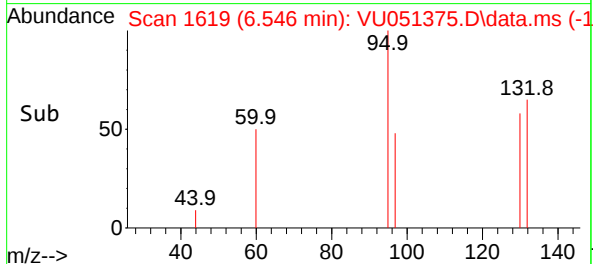
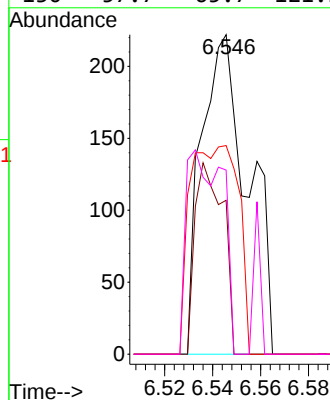
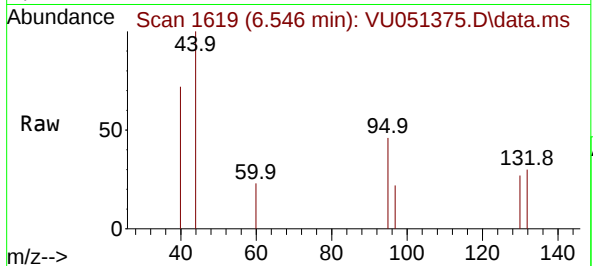




#34
Trichloroethene
Concen: 1.668 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.003 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

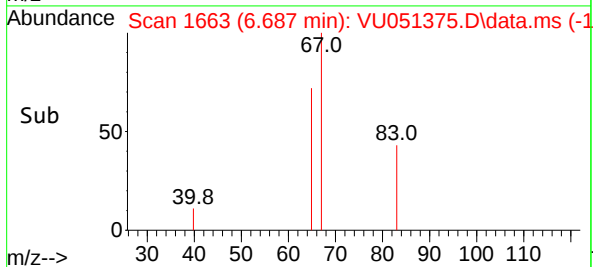
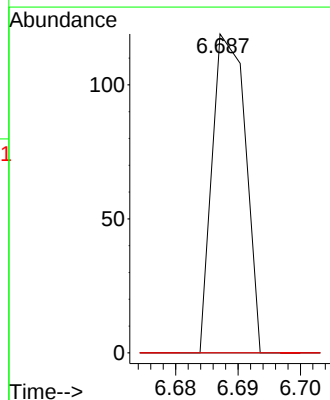
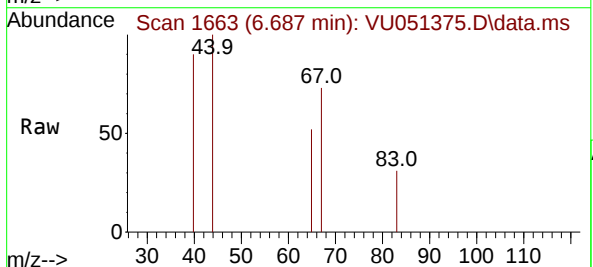
Instrument :
MSVOA_U
ClientSampleId :
BGS19DL

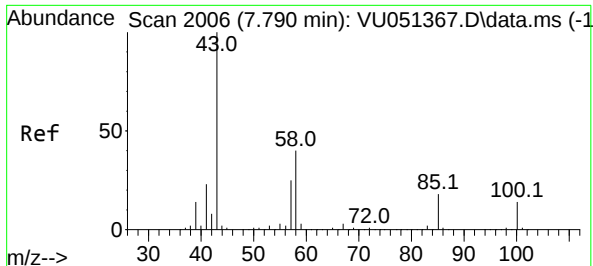
Tgt Ion: 95 Resp: 299
Ion Ratio Lower Upper
95 100
97 48.2 45.4 84.2
132 65.3 63.1 117.3
130 57.7 65.7 121.9#



#35
Methylcyclohexane
Concen: 0.195 ug/L
RT: 6.687 min Scan# 1663
Delta R.T. -0.077 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 83 Resp: 44
Ion Ratio Lower Upper
83 100
55 0.0 65.8 98.6#
98 0.0 35.9 53.9#





#40

4-Methyl-2-pentanone

Concen: 1.597 ug/L

RT: 7.796 min Scan# 2006

Delta R.T. 0.007 min

Lab File: VU051375.D

Acq: 11 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

BGS19DL

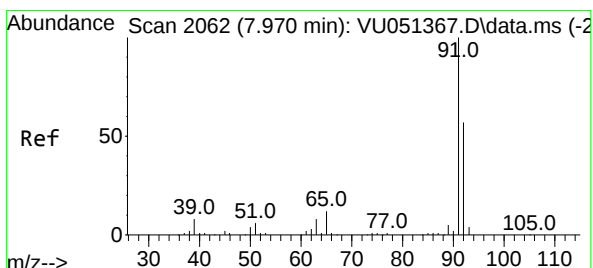
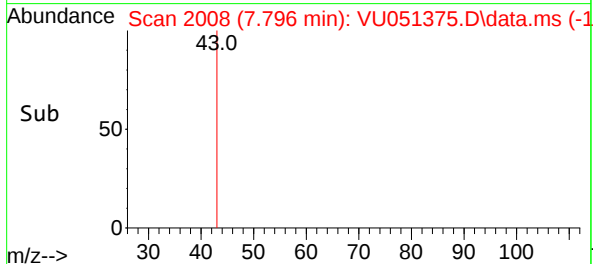
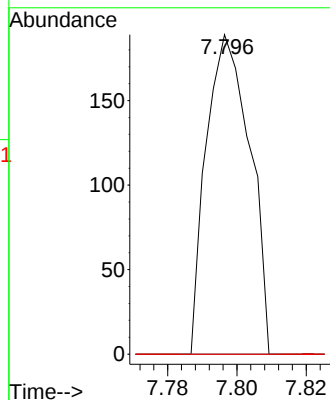
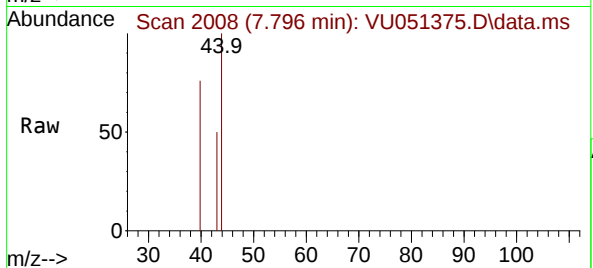
Tgt Ion: 43 Resp: 165

Ion Ratio Lower Upper

43 100

58 0.0 33.0 49.6#

100 520.0 11.8 17.6#



#42

Toluene

Concen: 1.419 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.003 min

Lab File: VU051375.D

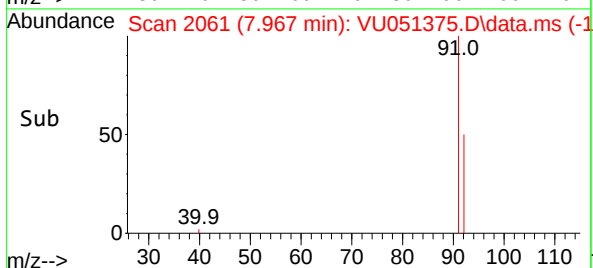
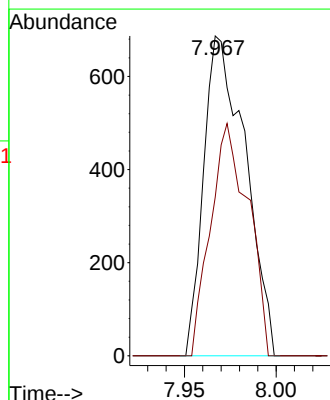
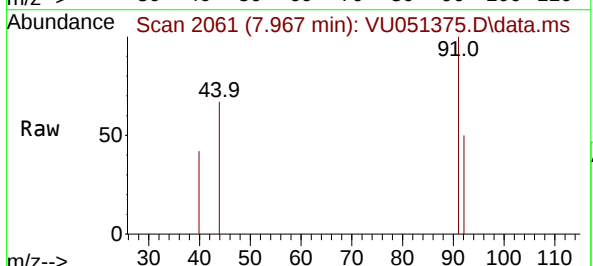
Acq: 11 Oct 2022 16:27

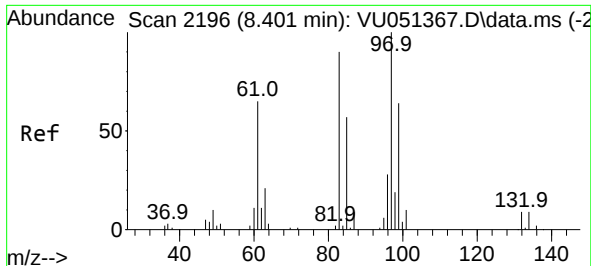
Tgt Ion: 91 Resp: 1082

Ion Ratio Lower Upper

91 100

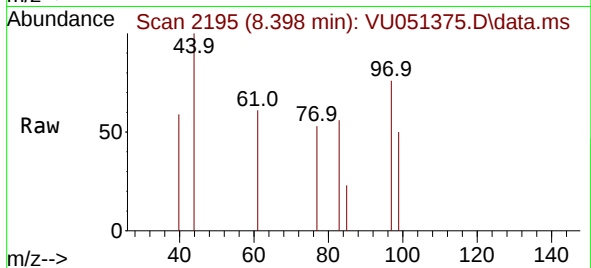
92 49.6 39.9 74.1





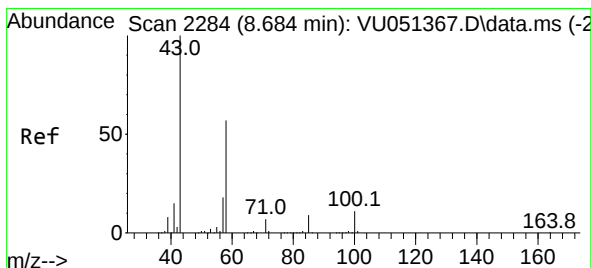
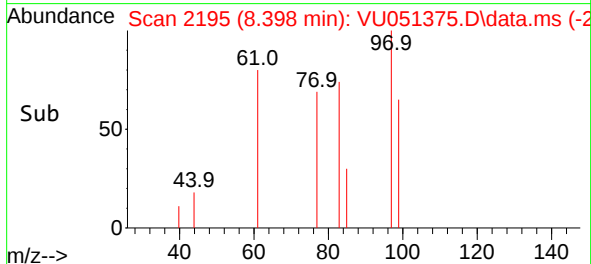
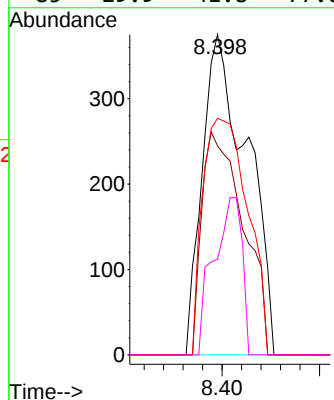
#45
1,1,2-Trichloroethane
Concen: 4.333 ug/L
RT: 8.398 min Scan# 2196
Delta R.T. -0.003 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Instrument :
MSVOA_U
ClientSampleId :
BGS19DL



Tgt Ion: 97 Resp: 599

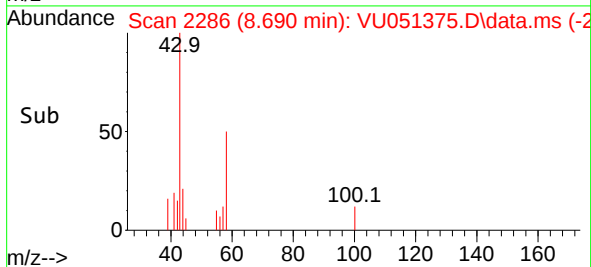
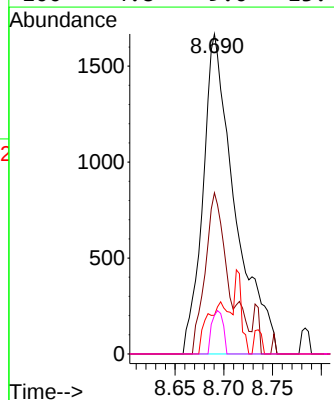
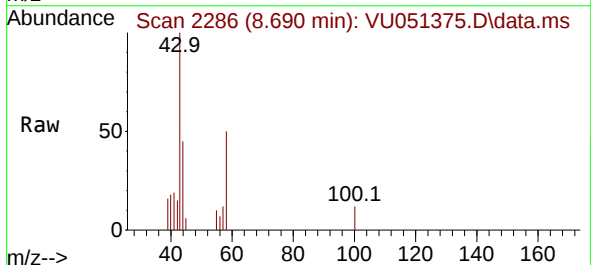
Ion	Ratio	Lower	Upper
97	100		
99	65.3	45.3	84.1
83	73.9	63.1	117.1
85	29.9	41.8	77.6

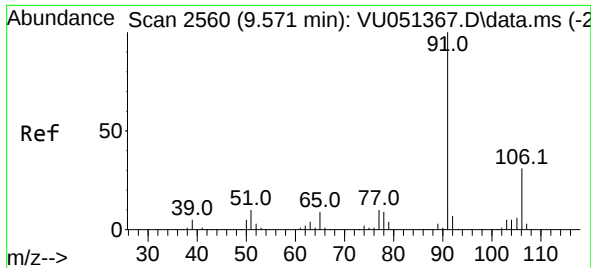


#48
2-Hexanone
Concen: 49.427 ug/L
RT: 8.690 min Scan# 2286
Delta R.T. 0.007 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 43 Resp: 3802

Ion	Ratio	Lower	Upper
43	100		
58	37.6	48.2	72.2
57	10.7	15.5	23.3
100	4.8	9.0	13.4

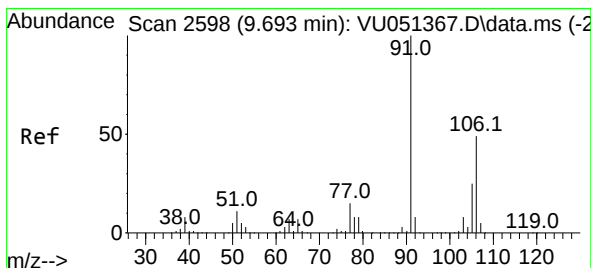
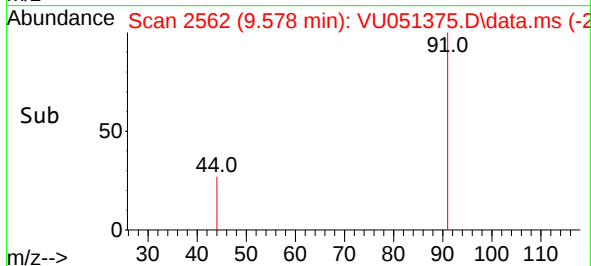
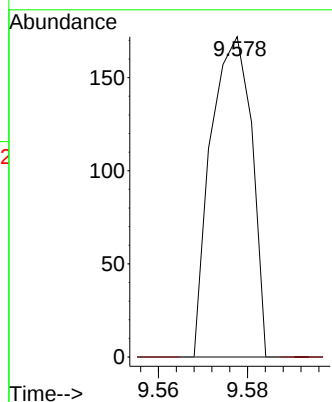
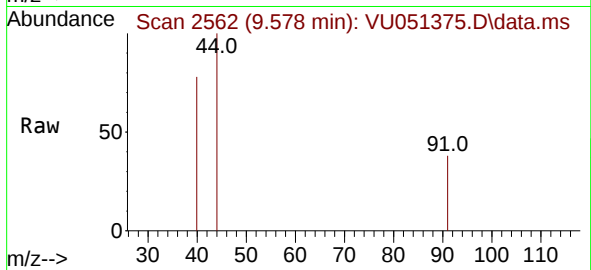




#52
Ethylbenzene
Concen: 0.159 ug/L
RT: 9.578 min Scan# 2109
Delta R.T. 0.007 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

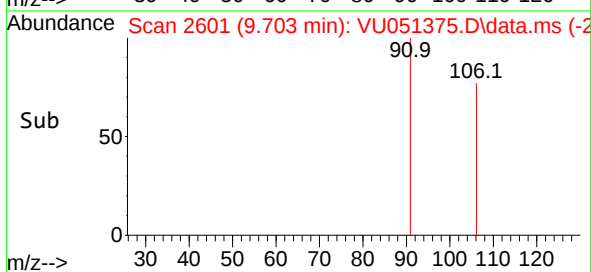
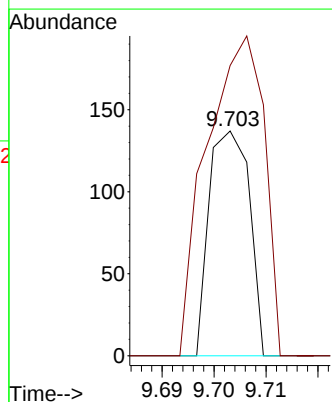
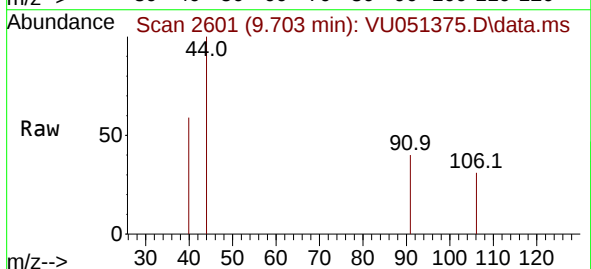
Instrument :
MSVOA_U
ClientSampleId :
BGS19DL

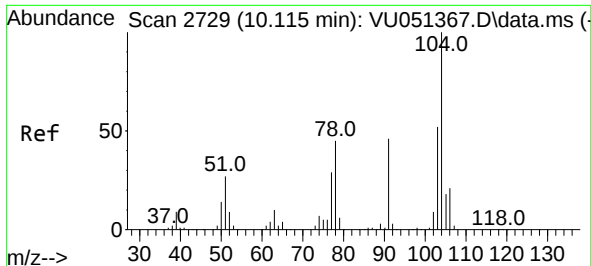
Tgt Ion: 91 Resp: 109
Ion Ratio Lower Upper
91 100
106 0.0 20.9 38.7#



#53
m,p-Xylene
Concen: 0.278 ug/L
RT: 9.703 min Scan# 2601
Delta R.T. 0.010 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 106 Resp: 74
Ion Ratio Lower Upper
106 100
91 129.2 143.9 267.3#

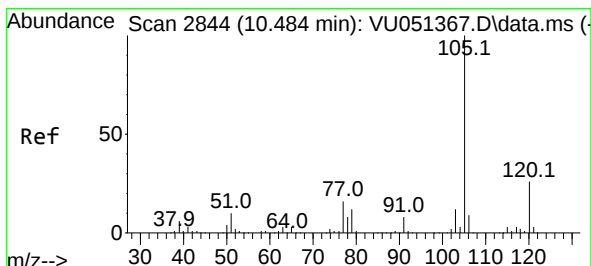
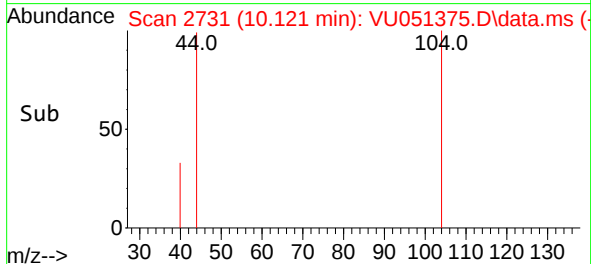
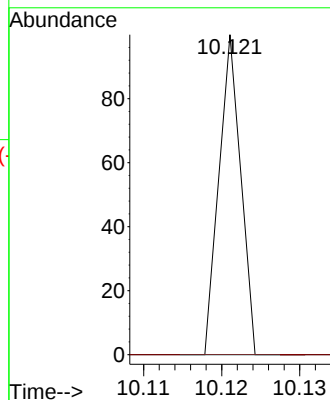
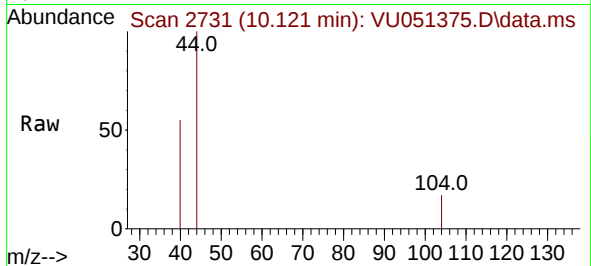




#55
Styrene
Concen: 0.044 ug/L
RT: 10.121 min Scan# 21
Delta R.T. 0.007 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

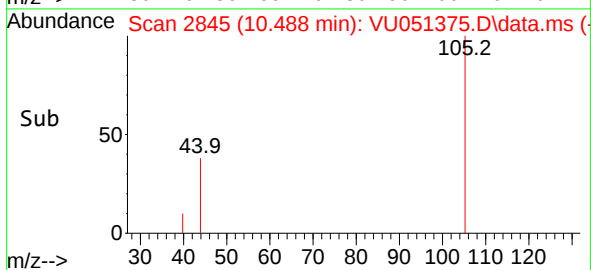
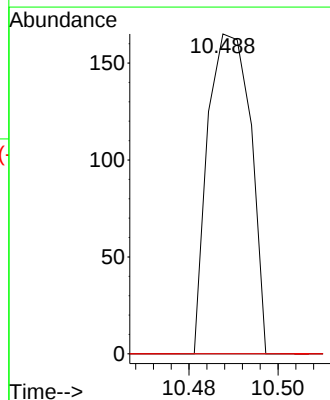
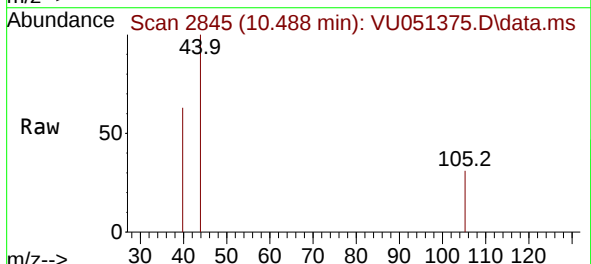
Instrument :
MSVOA_U
ClientSampleId :
BGS19DL

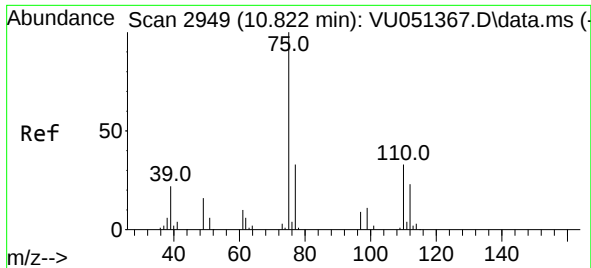
Tgt Ion:104 Resp: 19
Ion Ratio Lower Upper
104 100
78 0.0 32.1 59.7#



#60
Isopropylbenzene
Concen: 0.062 ug/L
RT: 10.488 min Scan# 2845
Delta R.T. 0.003 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion:105 Resp: 110
Ion Ratio Lower Upper
105 100
120 0.0 20.6 30.8#
77 0.0 13.5 20.3#

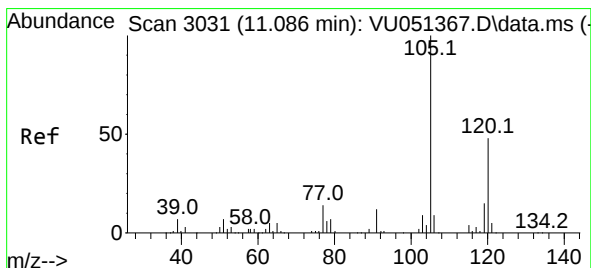
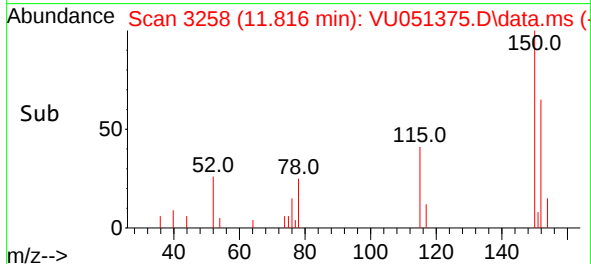
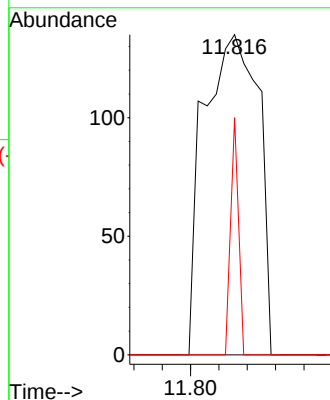
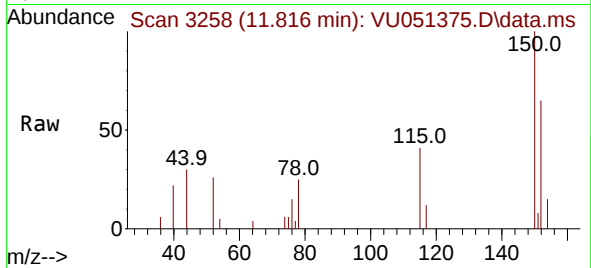




#61
1,2,3-Trichloropropane
Concen: 0.516 ug/L
RT: 11.816 min Scan# 3153
Delta R.T. 0.994 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

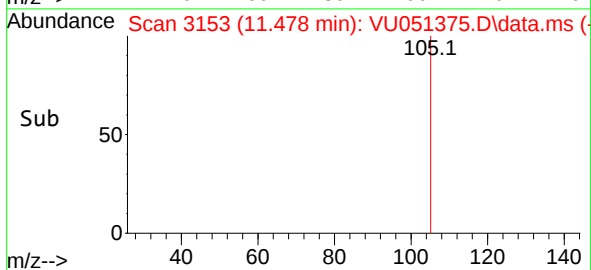
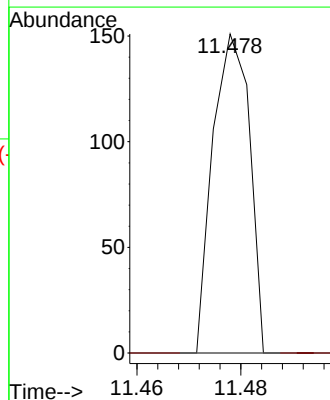
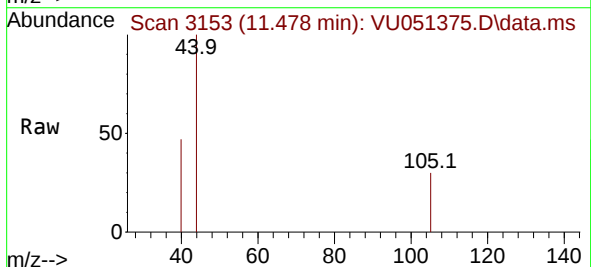
Instrument :
MSVOA_U
ClientSampleId :
BGS19DL

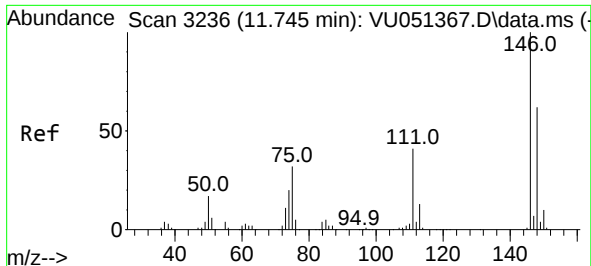
Tgt Ion: 75 Resp: 181
Ion Ratio Lower Upper
75 100
110 0.0 27.0 40.6#
77 10.5 26.4 39.6#



#62
1,3,5-Trimethylbenzene
Concen: 0.158 ug/L
RT: 11.478 min Scan# 3153
Delta R.T. 0.392 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion: 105 Resp: 74
Ion Ratio Lower Upper
105 100
120 0.0 37.7 56.5#

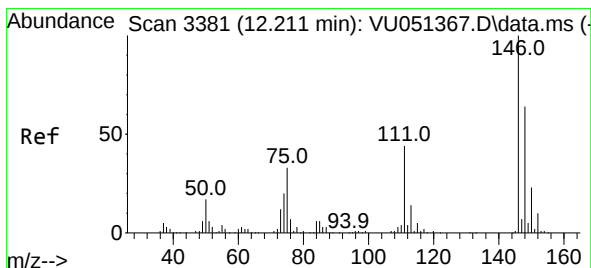
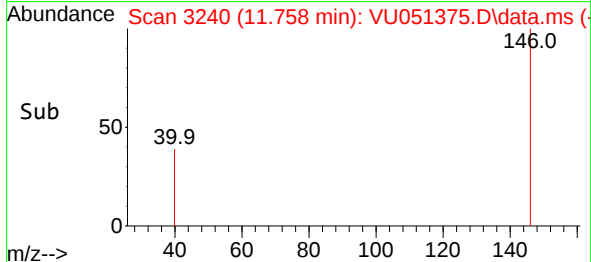
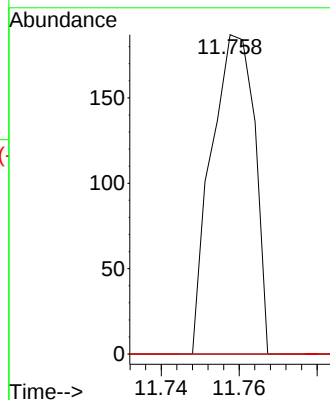
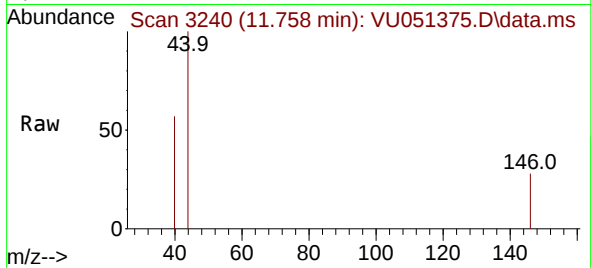




#64
1,3-Dichlorobenzene
Concen: 0.165 ug/L
RT: 11.758 min Scan# 31
Delta R.T. 0.013 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

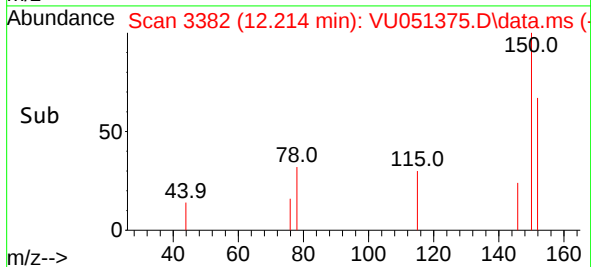
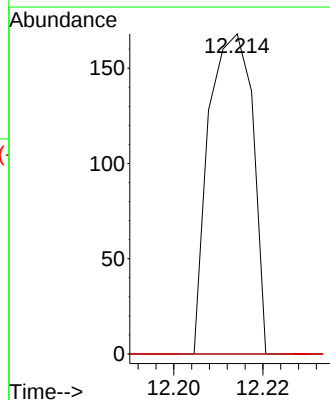
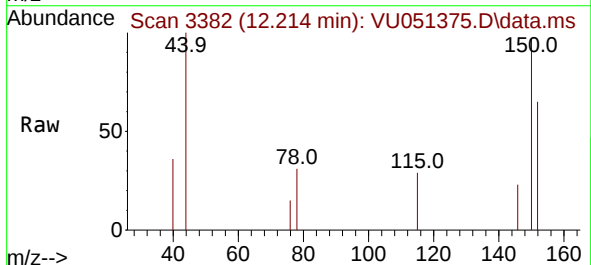
Instrument :
MSVOA_U
ClientSampleId :
BGS19DL

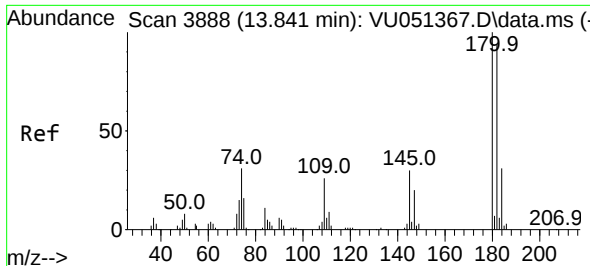
Tgt Ion:146 Resp: 144
Ion Ratio Lower Upper
146 100
111 0.0 28.3 52.7#
148 0.0 43.8 81.4#



#67
1,2-Dichlorobenzene
Concen: 0.136 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

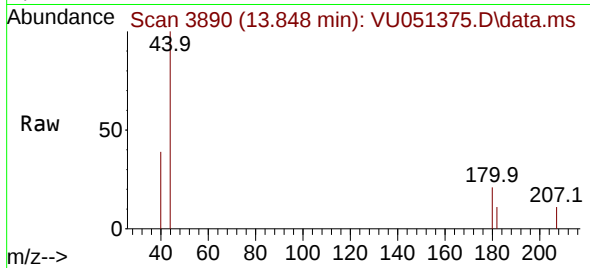
Tgt Ion:146 Resp: 115
Ion Ratio Lower Upper
146 100
111 0.0 35.5 53.3#
148 0.0 50.9 76.3#



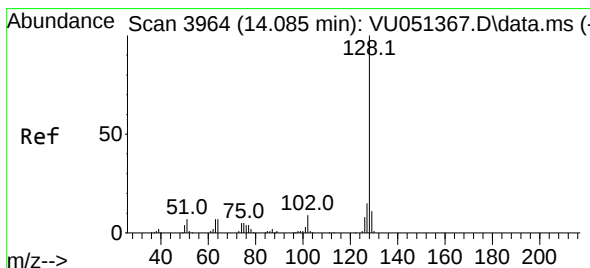
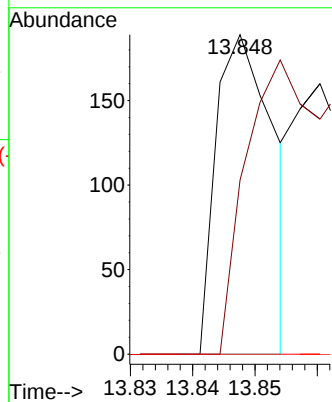
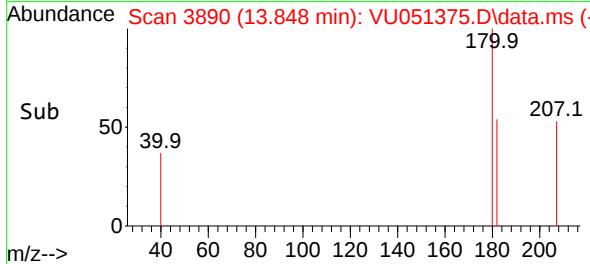


#70
1,2,4-trichlorobenzene
Concen: 0.284 ug/L
RT: 13.848 min Scan# 3890
Delta R.T. 0.007 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Instrument :
MSVOA_U
ClientSampleId :
BGS19DL

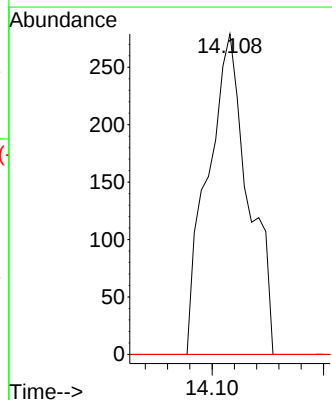
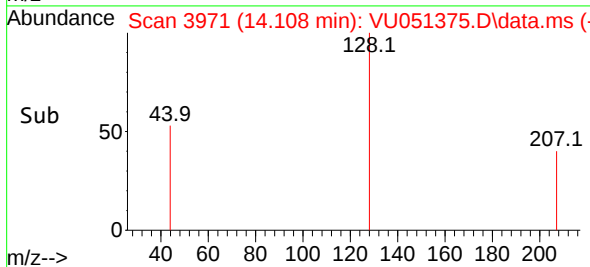
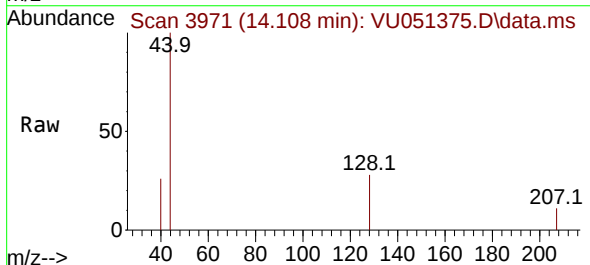


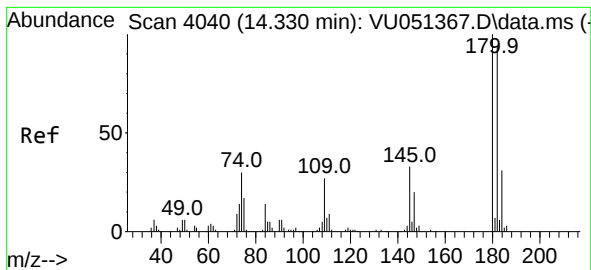
Tgt Ion:180 Resp: 121
Ion Ratio Lower Upper
180 100
182 113.2 78.7 118.1
145 0.0 25.0 37.4#



#71
Naphthalene
Concen: 0.445 ug/L
RT: 14.108 min Scan# 3971
Delta R.T. 0.023 min
Lab File: VU051375.D
Acq: 11 Oct 2022 16:27

Tgt Ion:128 Resp: 353
Ion Ratio Lower Upper
128 100
129 0.0 8.5 12.7#
127 0.0 11.1 16.7#





#72

1,2,3-Trichlorobenzene

Concen: 0.367 ug/L

RT: 14.336 min Scan# 40

Delta R.T. 0.007 min

Lab File: VU051375.D

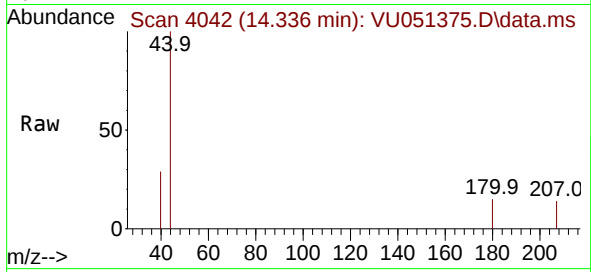
Acq: 11 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

BGS19DL



Tgt Ion:180 Resp: 162

Ion Ratio Lower Upper

180 100

182 0.0 76.6 114.8#

145 0.0 25.8 38.8#

