

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021822\
 Data File : VX027108.D
 Acq On : 18 Feb 2022 14:30
 Operator : JC/MD
 Sample : N1583-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 220216018-02-VOA

Quant Time: Feb 21 00:21:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 18 05:14:00 2022
 Response via : Initial Calibration

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

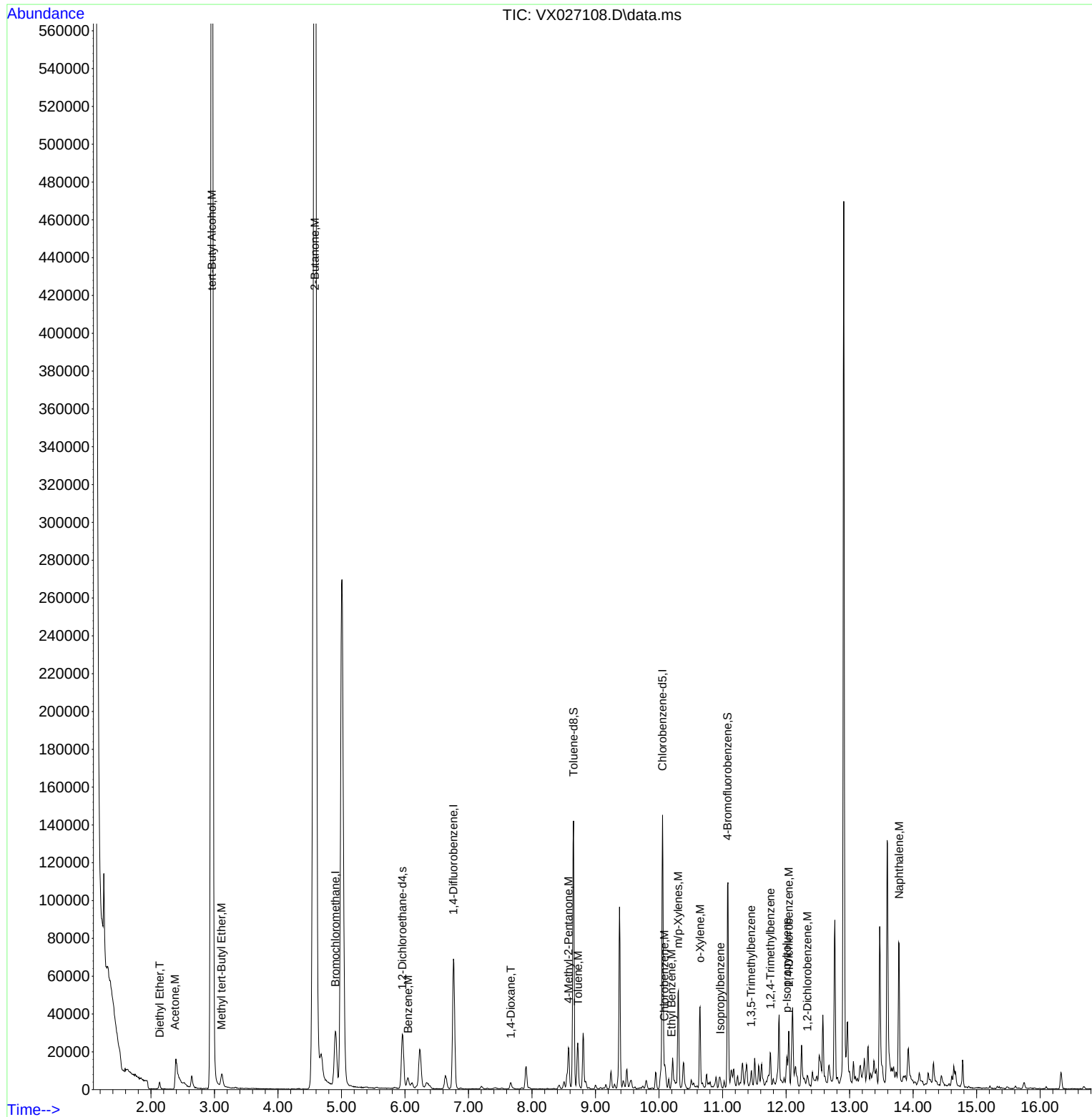
Internal Standards						
1) Bromochloromethane	4.903	128	12676	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	71298	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	63054	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	27759	30.286	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110	Recovery	= 100.967%		
60) 4-Bromofluorobenzene	11.079	95	30049	29.306	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112	Recovery	= 97.700%		
63) Toluene-d8	8.653	98	83654	29.591	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112	Recovery	= 98.633%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.135	74	1066	2.758	ug/l	83
15) Acetone	2.379	58	585	4.591	ug/l	84
23) tert-Butyl Alcohol	2.958	59	1210646	6511.995	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	7454	2.887	ug/l #	77
30) 2-Butanone	4.580	43	45814	67.349	ug/l #	77
34) Benzene	6.049	78	6829	2.052	ug/l	97
45) 1,4-Dioxane	7.665	88	2412	117.348	ug/l	95
58) 4-Methyl-2-Pentanone	8.573	43	15956	12.303	ug/l	91
62) Toluene	8.726	91	12598	3.528	ug/l	97
64) Chlorobenzene	10.085	112	1629	0.737	ug/l #	80
66) Ethyl Benzene	10.195	91	1938	0.493	ug/l	95
67) m/p-Xylenes	10.299	106	11512	7.579	ug/l	97
68) o-Xylene	10.646	106	9842	6.600	ug/l	100
70) Isopropylbenzene	10.963	105	1376	0.356	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	3419	1.056	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	7191	2.225	ug/l	98
82) p-Isopropyltoluene	12.012	119	1640	0.493	ug/l	85
84) 1,4-Dichlorobenzene	12.042	146	8473	4.794	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	1110	0.649	ug/l	92
91) Naphthalene	13.780	128	39159	10.353	ug/l	99

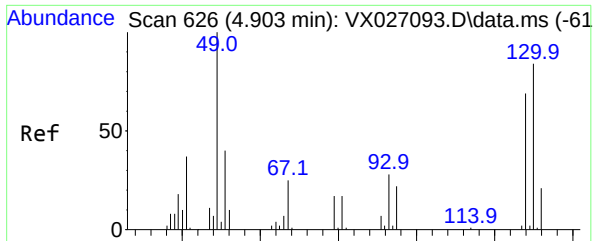
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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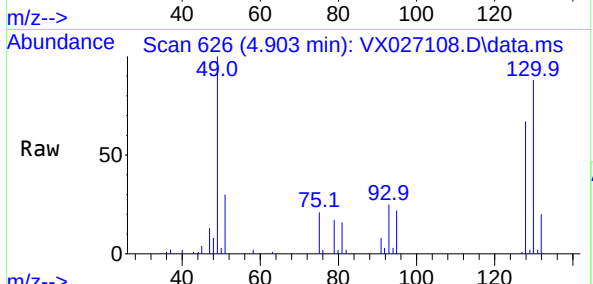
Quant Time: Feb 21 00:21:33 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 18 05:14:00 2022
Response via : Initial Calibration



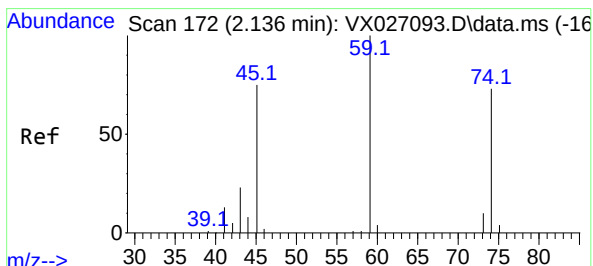
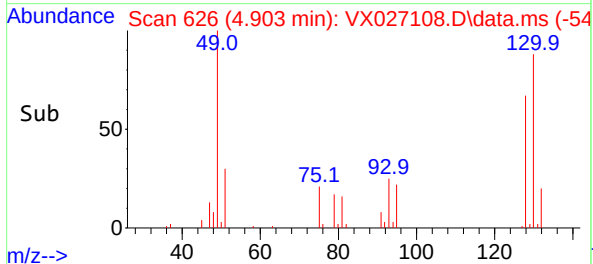
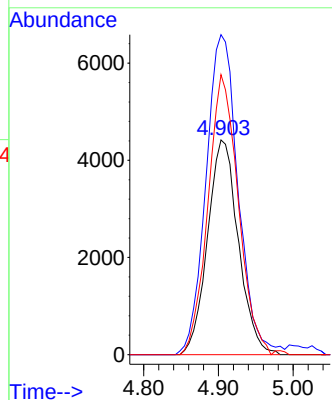


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

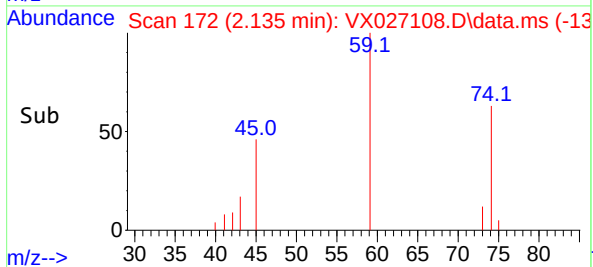
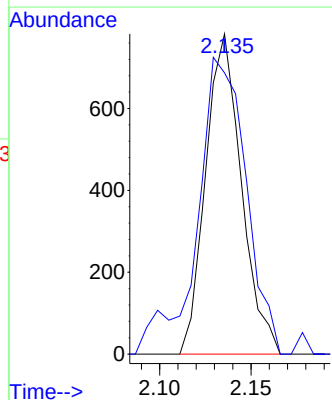
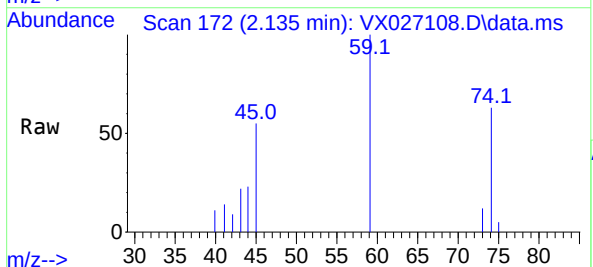


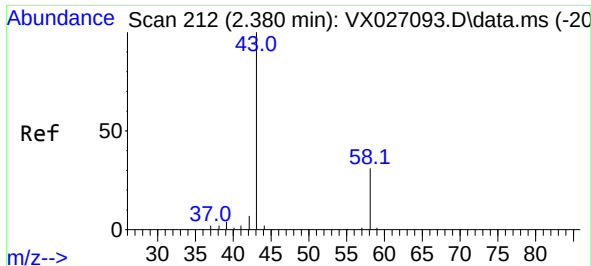
Tgt Ion:128 Resp: 12676
Ion Ratio Lower Upper
128 100
49 154.9 0.0 387.0
130 128.4 0.0 323.0



#8
Diethyl Ether
Concen: 2.758 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 74 Resp: 1066
Ion Ratio Lower Upper
74 100
45 117.8 20.2 181.4

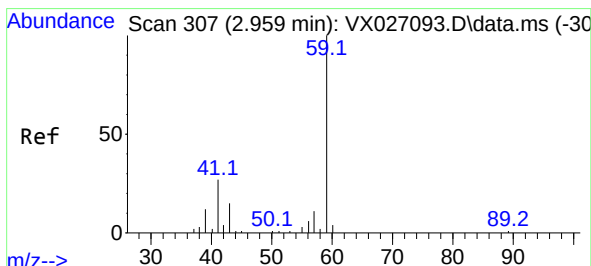
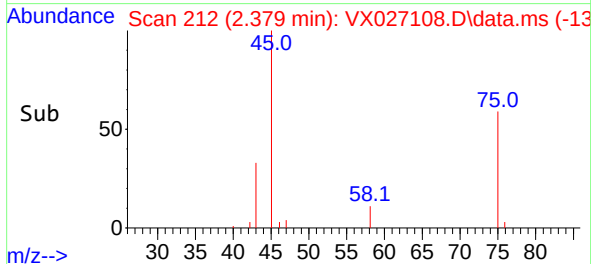
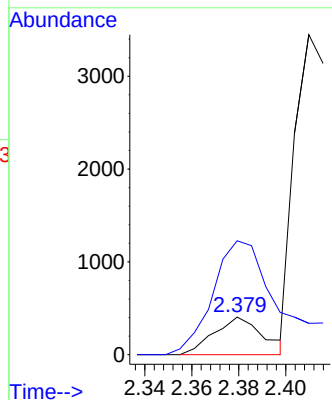
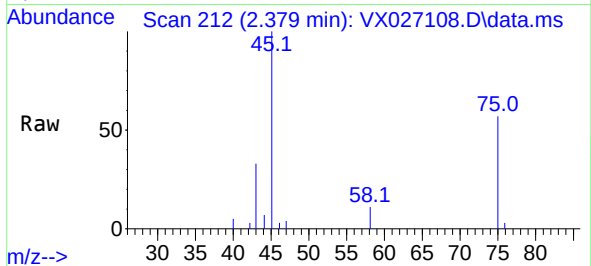




#15
Acetone
Concen: 4.591 ug/l
RT: 2.379 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

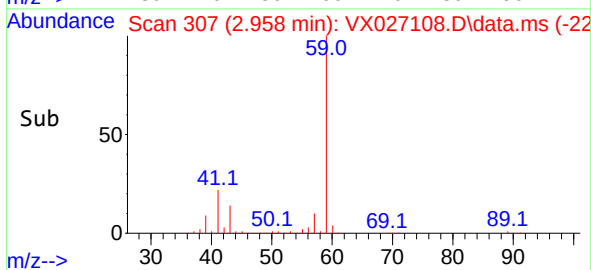
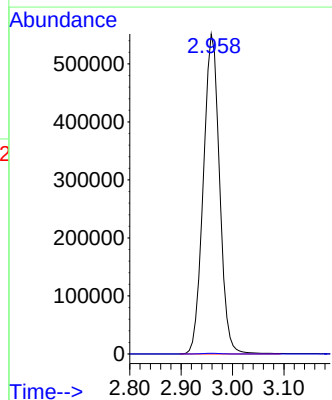
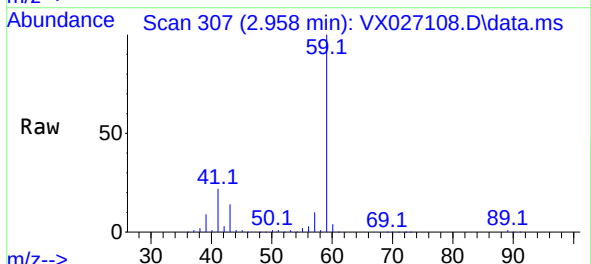
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

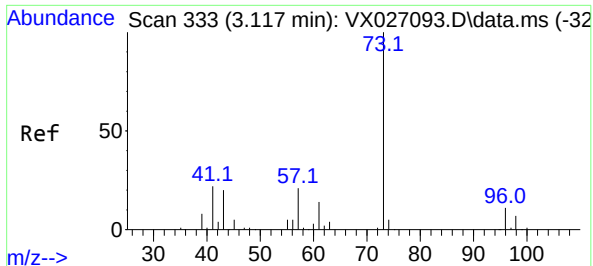
Tgt Ion: 58 Resp: 585
Ion Ratio Lower Upper
58 100
43 287.9 256.9 385.3



#23
tert-Butyl Alcohol
Concen: 6511.995 ug/l
RT: 2.958 min Scan# 307
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 59 Resp: 1210646
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#

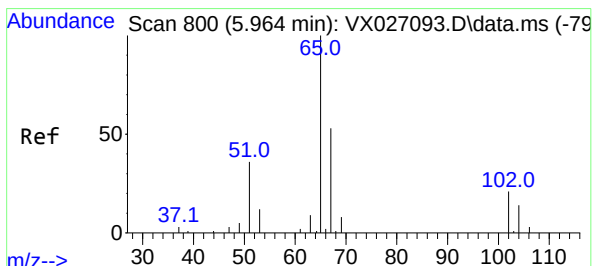
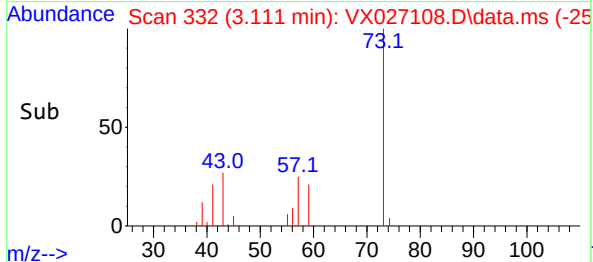
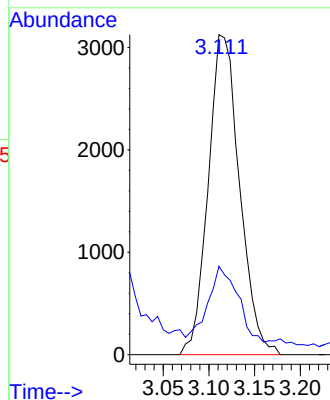
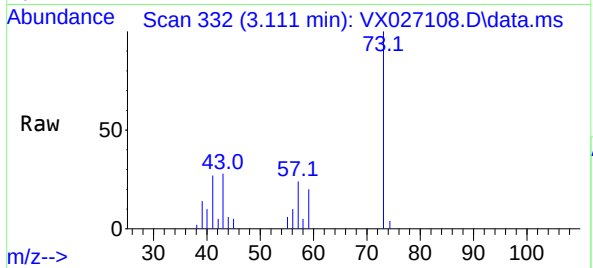




#24
Methyl tert-Butyl Ether
Concen: 2.887 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

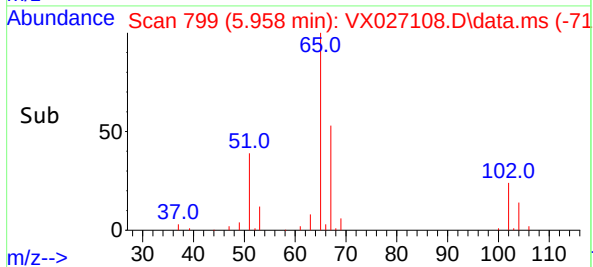
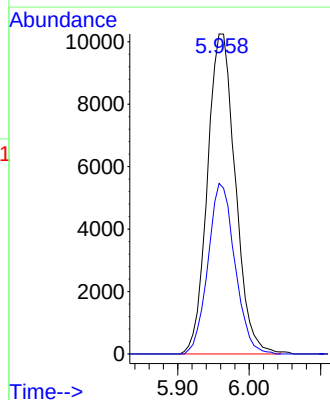
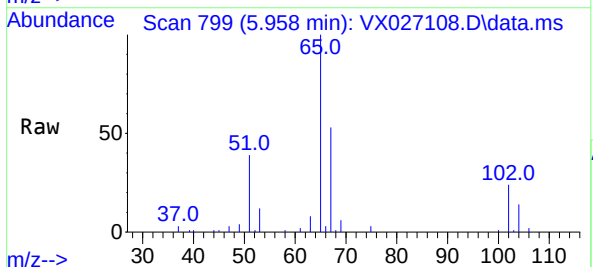
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

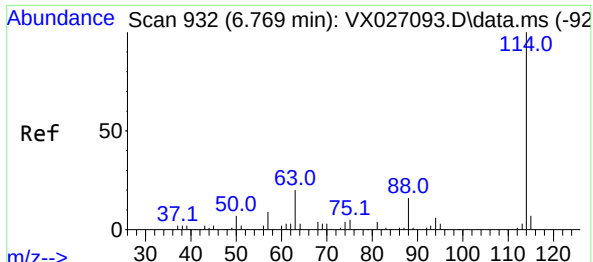
Tgt Ion: 73 Resp: 7454
Ion Ratio Lower Upper
73 100
43 30.9 16.2 24.4#



#27
1,2-Dichloroethane-d4
Concen: 30.286 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 65 Resp: 27759
Ion Ratio Lower Upper
65 100
67 51.4 41.4 62.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX027108.D

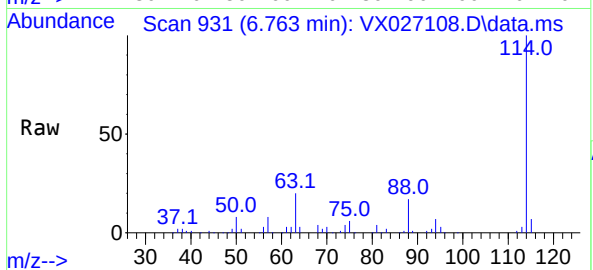
Acq: 18 Feb 2022 14:30

Instrument :

MSVOA_X

ClientSampleId :

220216018-02-VOA



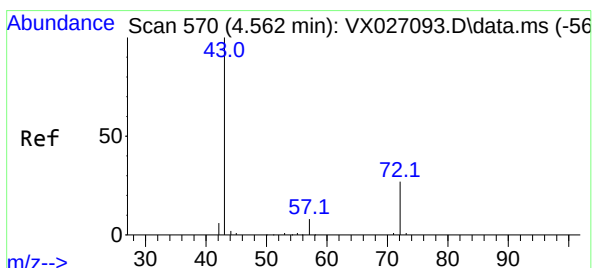
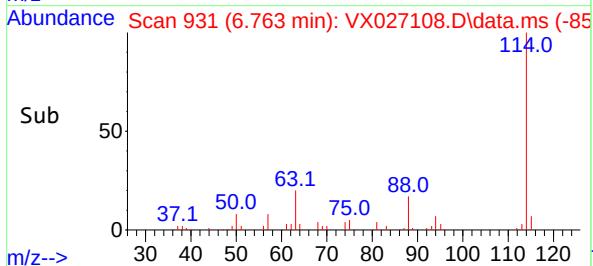
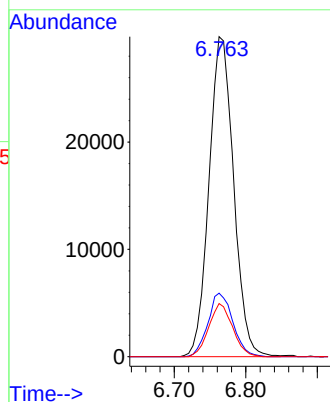
Tgt Ion:114 Resp: 71298

Ion Ratio Lower Upper

114 100

63 20.1 16.2 24.2

88 16.1 12.7 19.1



#30

2-Butanone

Concen: 67.349 ug/l

RT: 4.580 min Scan# 573

Delta R.T. 0.018 min

Lab File: VX027108.D

Acq: 18 Feb 2022 14:30

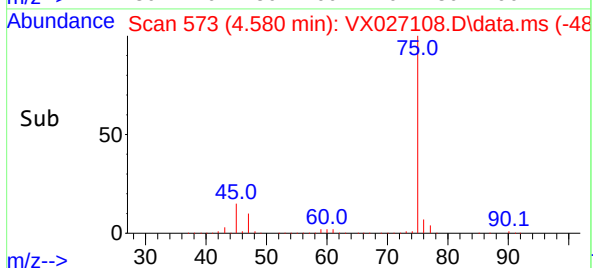
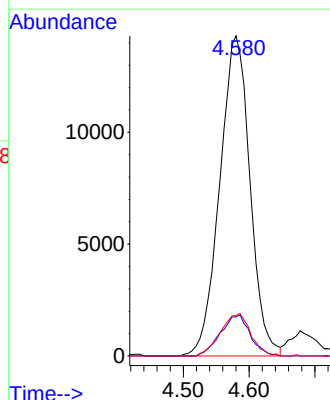
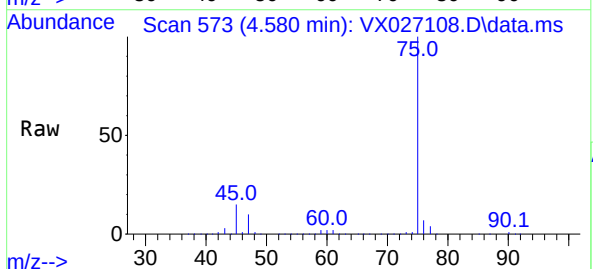
Tgt Ion: 43 Resp: 45814

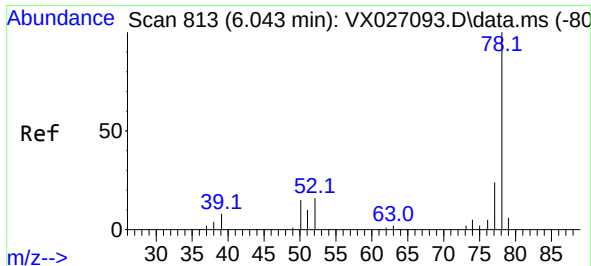
Ion Ratio Lower Upper

43 100

57 12.6 6.6 9.8#

72 13.1 21.0 31.6#

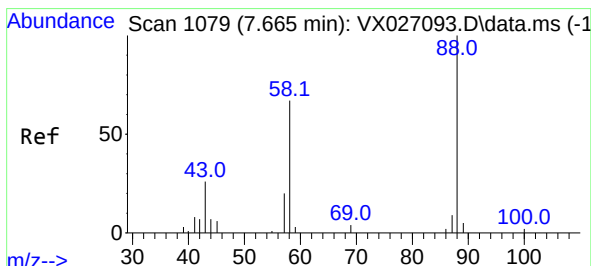
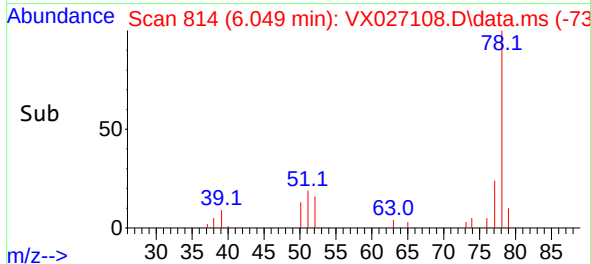
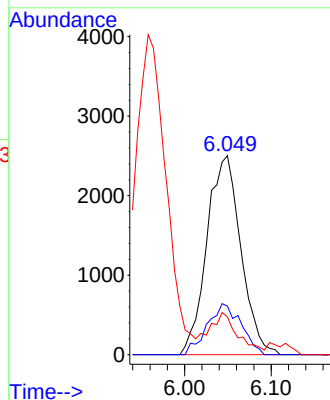
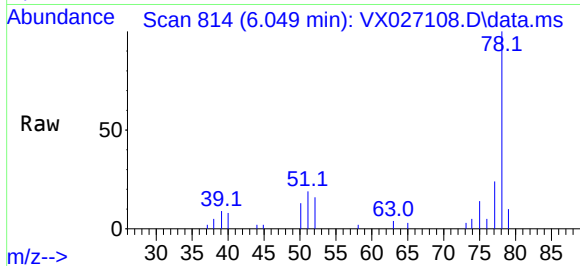




#34
Benzene
Concen: 2.052 ug/l
RT: 6.049 min Scan# 813
Delta R.T. 0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

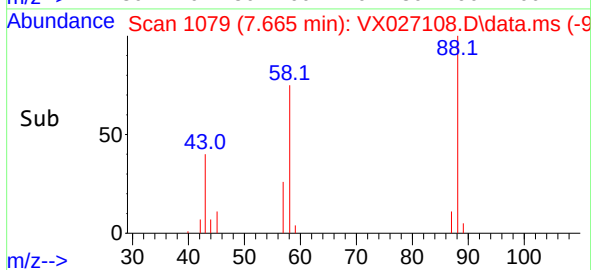
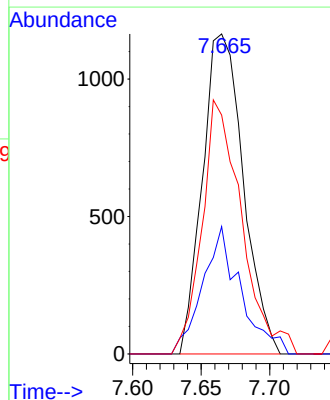
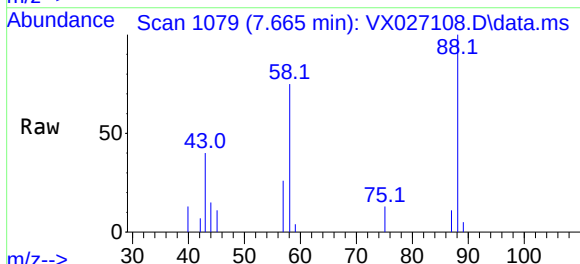
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ClientSampleId :
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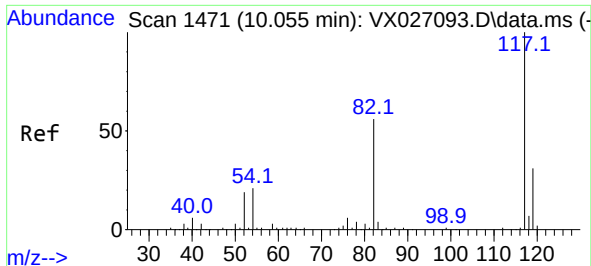
Tgt Ion: 78 Resp: 6829
Ion Ratio Lower Upper
78 100
77 24.4 18.9 28.3
51 15.0 13.4 20.2



#45
1,4-Dioxane
Concen: 117.348 ug/l
RT: 7.665 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 88 Resp: 2412
Ion Ratio Lower Upper
88 100
43 37.0 28.3 42.5
58 74.6 55.4 83.2

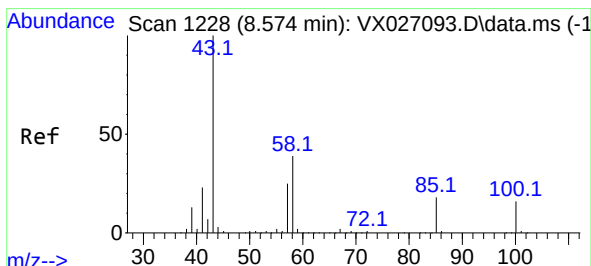
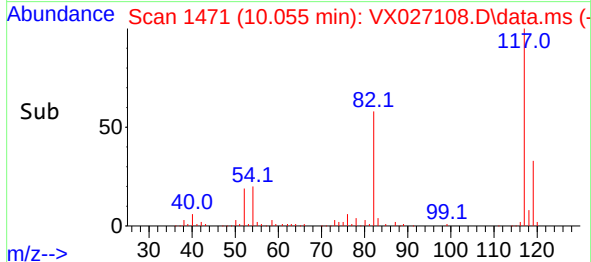
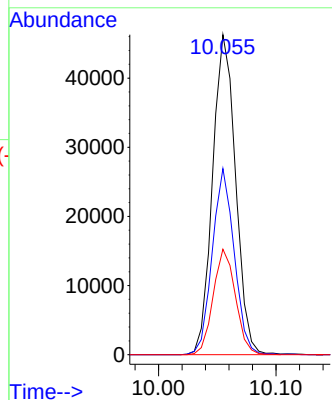
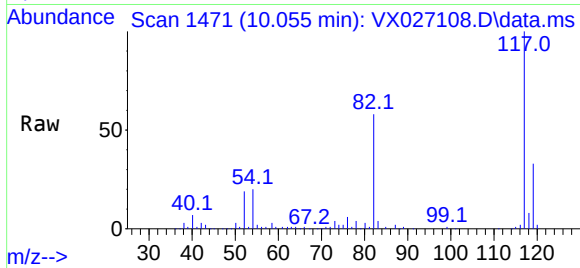




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

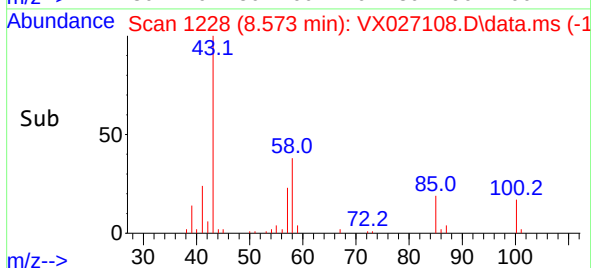
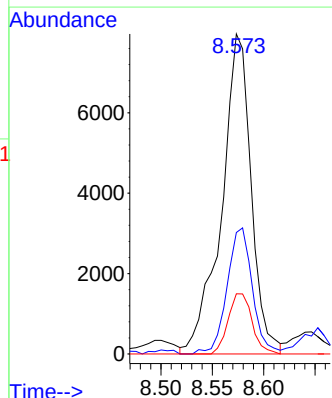
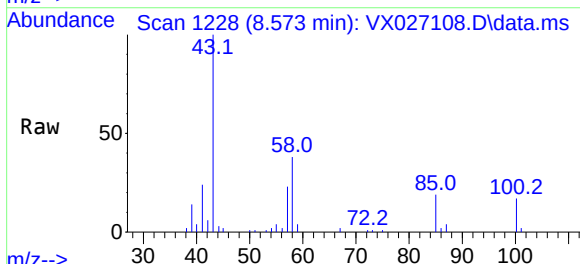
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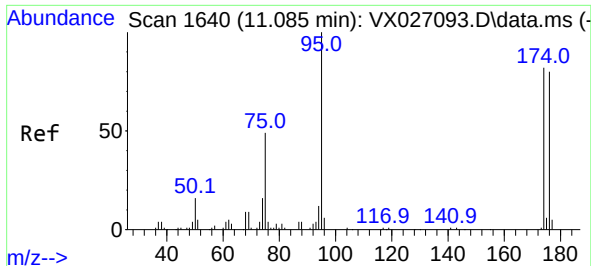
Tgt Ion:	117	Resp:	63054
Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.1	66.1
119	31.9	25.4	38.0



#58
4-Methyl-2-Pentanone
Concen: 12.303 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion:	43	Resp:	15956
Ion	Ratio	Lower	Upper
43	100		
58	33.2	31.2	46.8
85	15.2	14.8	22.2

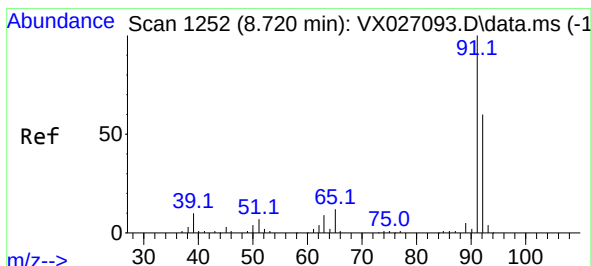
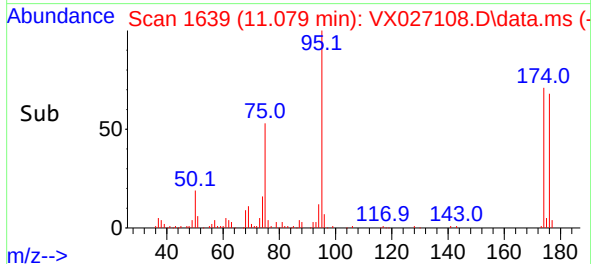
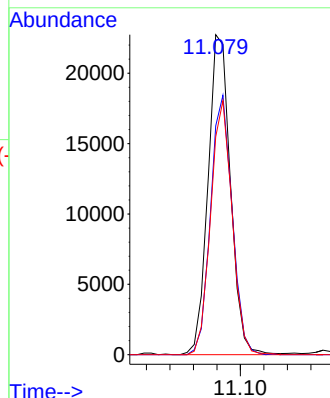
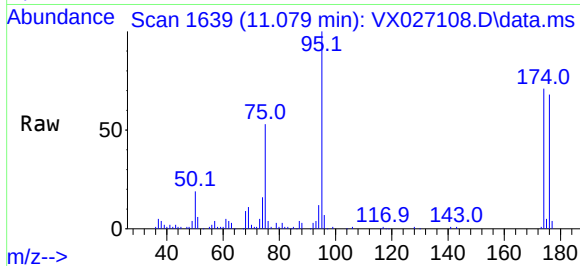




#60
4-Bromofluorobenzene
Concen: 29.306 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

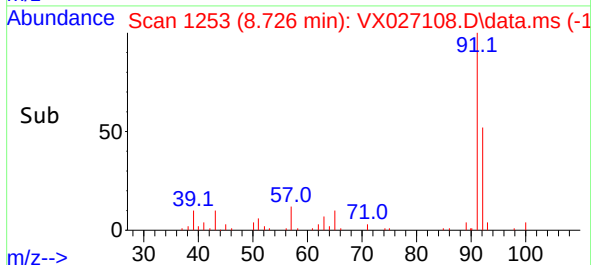
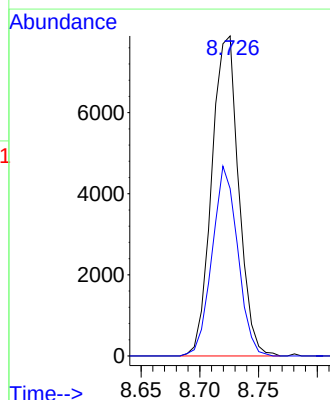
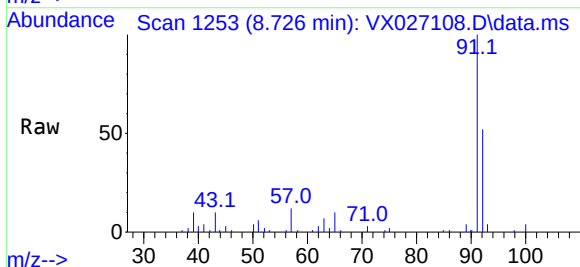
Instrument :
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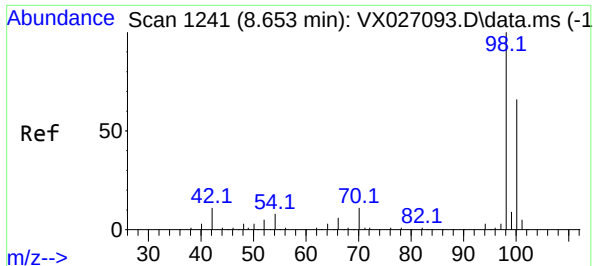
Tgt Ion: 95 Resp: 30049
Ion Ratio Lower Upper
95 100
174 78.1 61.8 92.8
176 76.0 59.4 89.2



#62
Toluene
Concen: 3.528 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 91 Resp: 12598
Ion Ratio Lower Upper
91 100
92 56.3 47.0 70.6

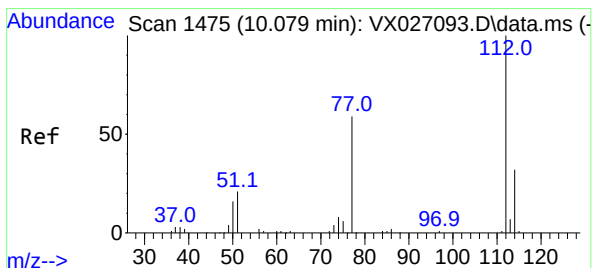
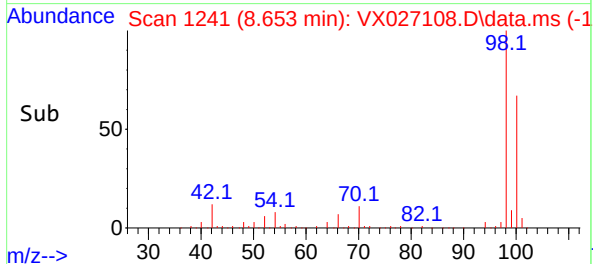
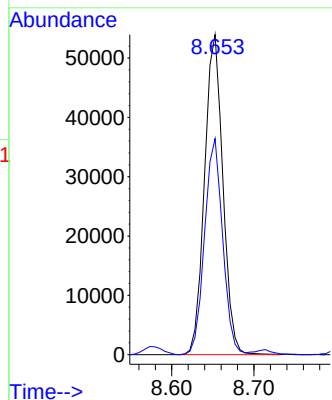
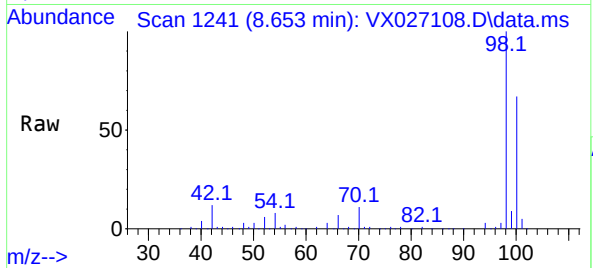




#63
Toluene-d8
Concen: 29.591 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

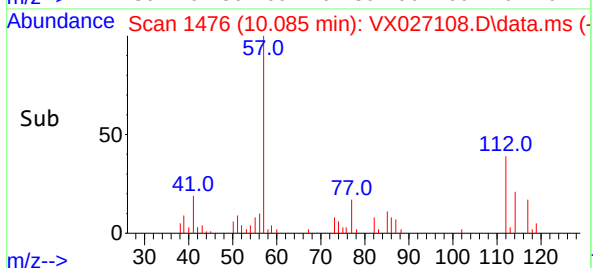
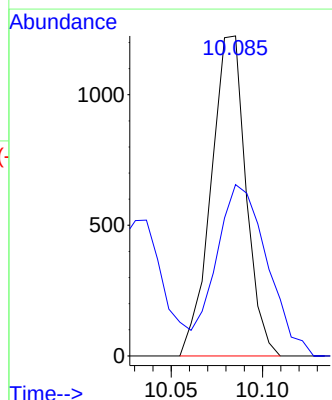
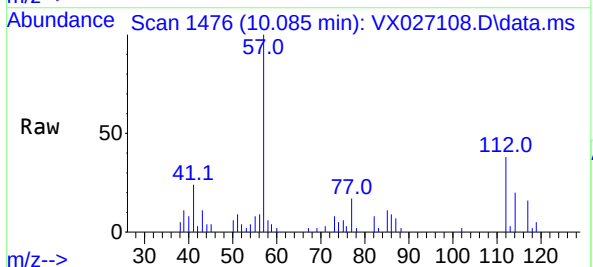
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

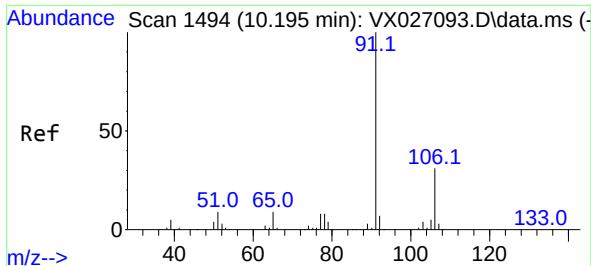
Tgt Ion: 98 Resp: 83654
Ion Ratio Lower Upper
98 100
100 66.5 52.6 78.8



#64
Chlorobenzene
Concen: 0.737 ug/l
RT: 10.085 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 112 Resp: 1629
Ion Ratio Lower Upper
112 100
114 43.0 25.7 38.5#

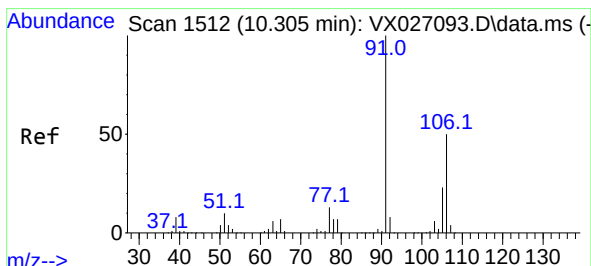
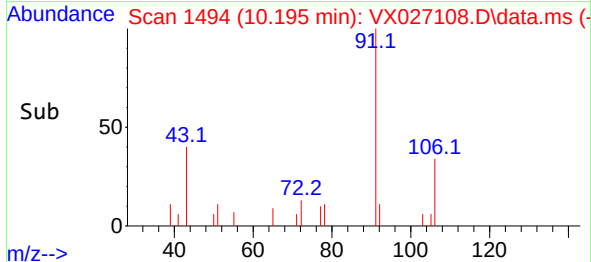
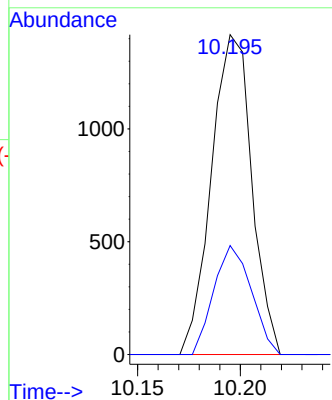
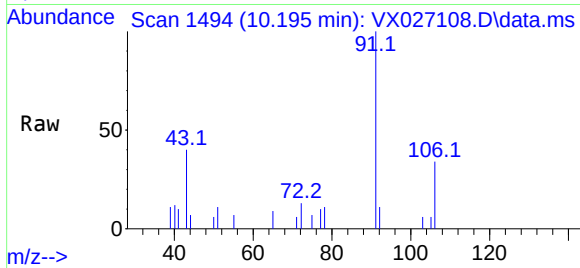




#66
Ethyl Benzene
Concen: 0.493 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

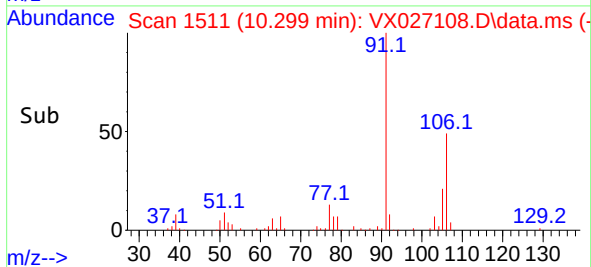
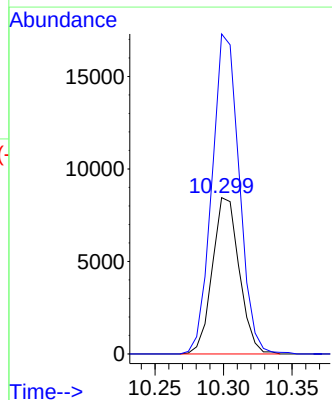
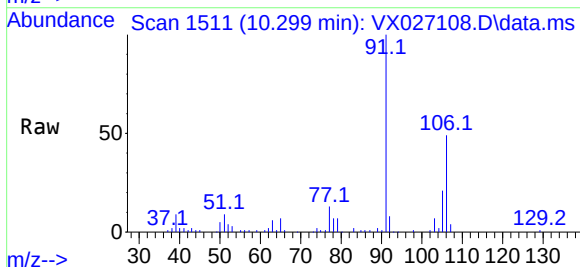
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

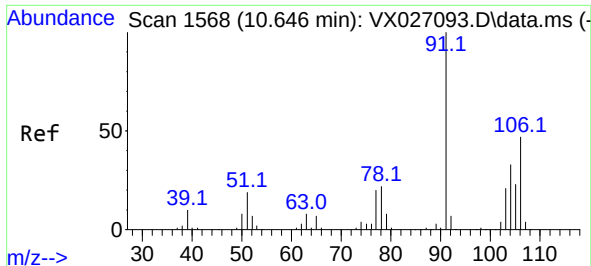
Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 34.1 25.0 37.4



#67
m/p-Xylenes
Concen: 7.579 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion: 106 Resp: 11512
Ion Ratio Lower Upper
106 100
91 208.1 162.4 243.6

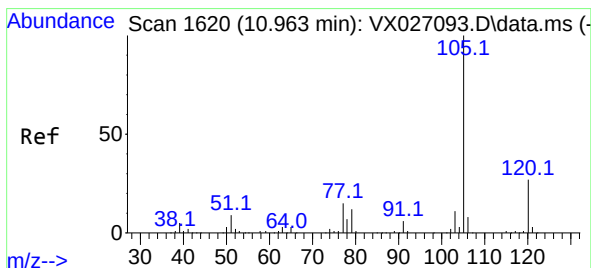
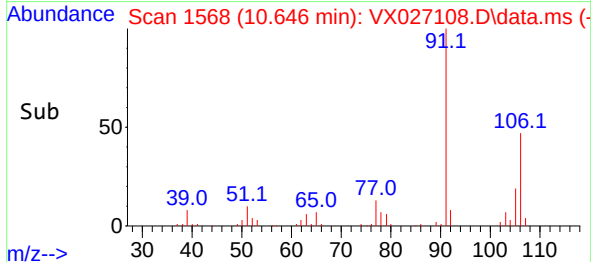
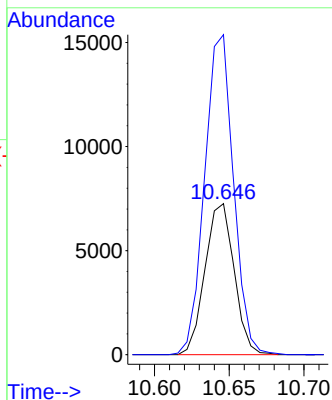
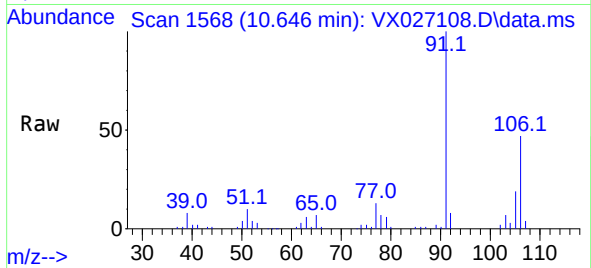




#68
o-Xylene
Concen: 6.600 ug/l
RT: 10.646 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

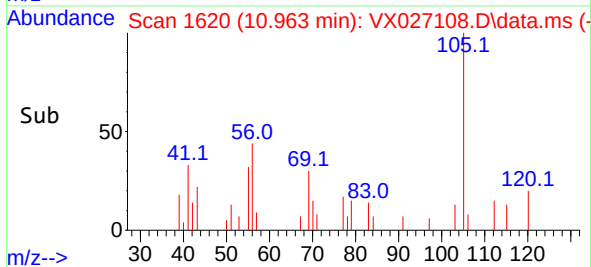
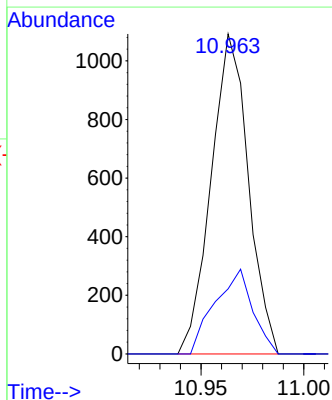
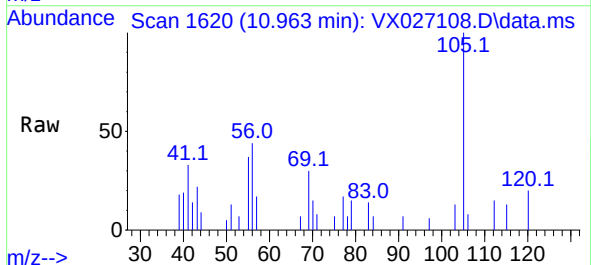
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

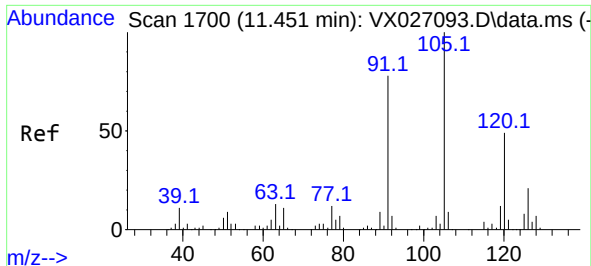
Tgt Ion:106 Resp: 9842
Ion Ratio Lower Upper
106 100
91 210.0 104.9 314.7



#70
Isopropylbenzene
Concen: 0.356 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion:105 Resp: 1376
Ion Ratio Lower Upper
105 100
120 26.9 18.7 34.7

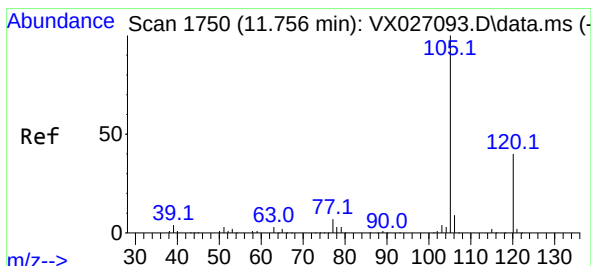
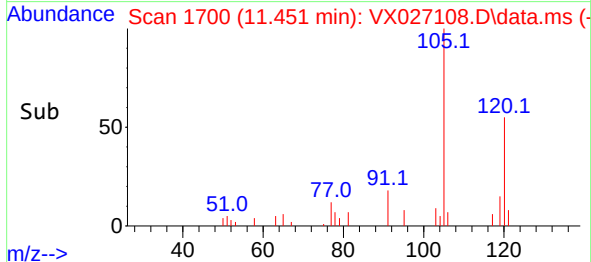
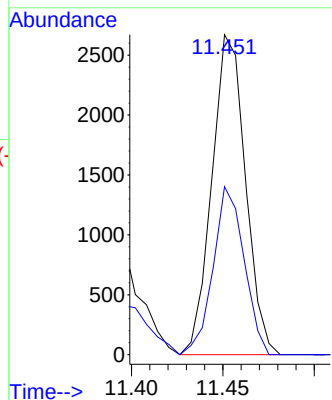
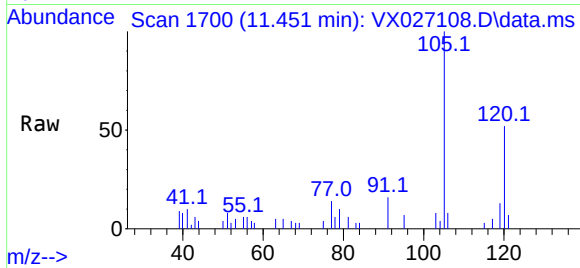




#76
1,3,5-Trimethylbenzene
Concen: 1.056 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

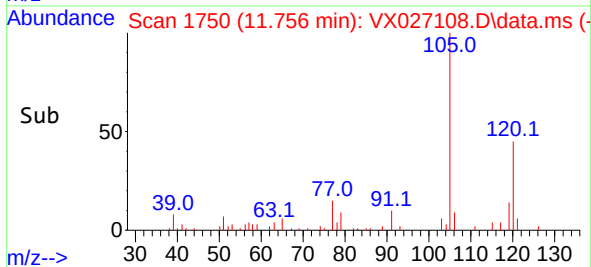
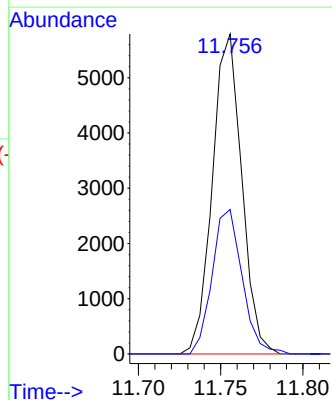
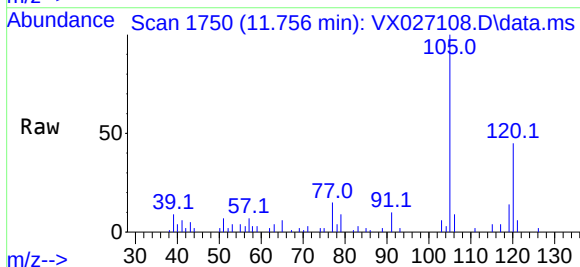
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

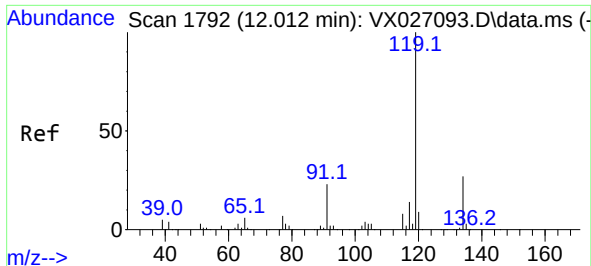
Tgt Ion:105 Resp: 3419
Ion Ratio Lower Upper
105 100
120 48.4 0.0 98.0



#80
1,2,4-Trimethylbenzene
Concen: 2.225 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion:105 Resp: 7191
Ion Ratio Lower Upper
105 100
120 46.2 0.0 89.2

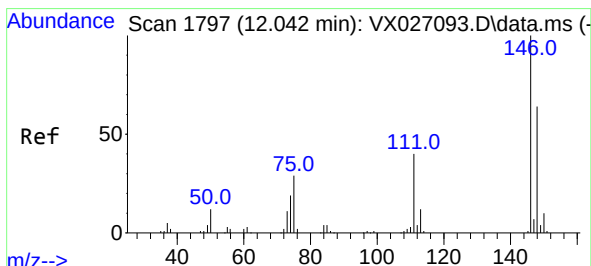
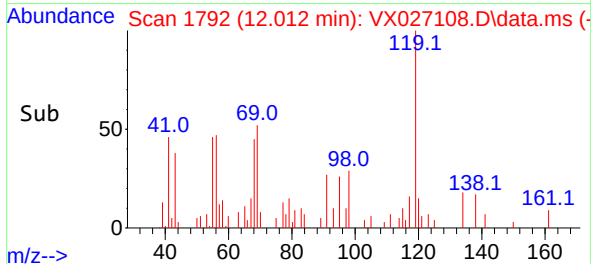
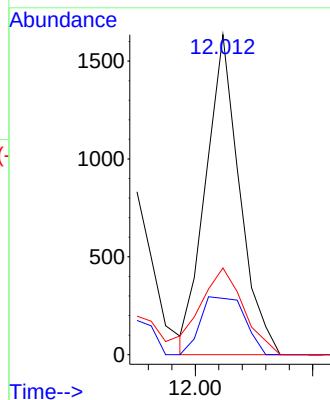
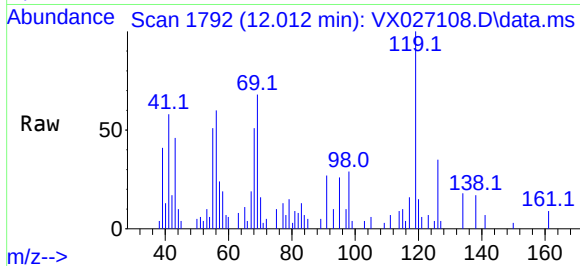




#82
p-Isopropyltoluene
Concen: 0.493 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

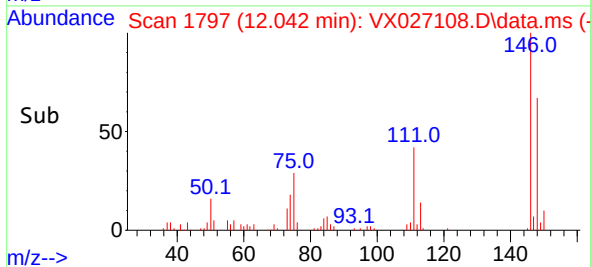
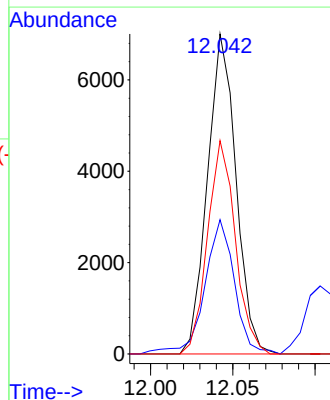
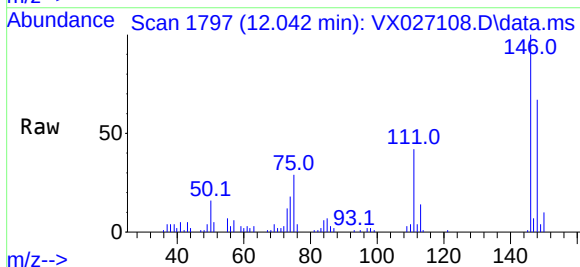
Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

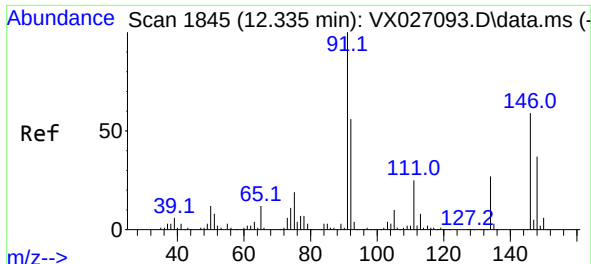
Tgt Ion:	119	Resp:	1640
Ion	Ratio	Lower	Upper
119	100		
134	23.5	0.0	52.8
91	35.7	0.0	47.4



#84
1,4-Dichlorobenzene
Concen: 4.794 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion:	146	Resp:	8473
Ion	Ratio	Lower	Upper
146	100		
111	43.6	19.4	58.2
148	64.9	32.0	96.2

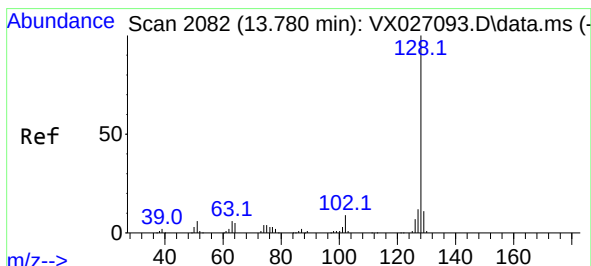
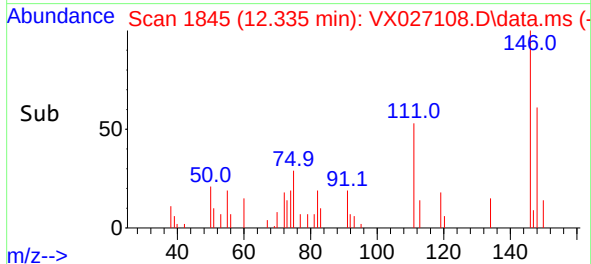
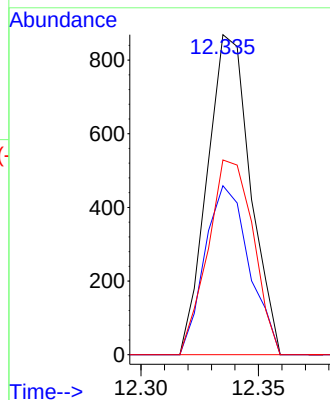
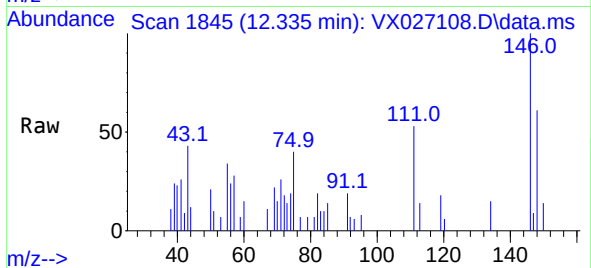




#87
1,2-Dichlorobenzene
Concen: 0.649 ug/l
RT: 12.335 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Instrument :
MSVOA_X
ClientSampleId :
220216018-02-VOA

Tgt Ion:146	Resp:	1110
Ion	Ratio	Lower Upper
146	100	
111	54.2	21.2 63.6
148	63.9	31.6 95.0



#91
Naphthalene
Concen: 10.353 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VX027108.D
Acq: 18 Feb 2022 14:30

Tgt Ion:128	Resp:	39159
Ion	Ratio	Lower Upper
128	100	
127	13.0	9.9 14.9
129	10.9	8.8 13.2

