

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW072922\
 Data File : VW027108.D
 Acq On : 30 Jul 2022 01:30
 Operator : SY/MD
 Sample : N3956-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXF04

Quant Time: Jul 30 04:29:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072822WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 30 01:28:32 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	614169	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.857	117	627066	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	339204	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	204994	35.084	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.160%
7) Chloroethane-d5	1.564	69	174616	37.718	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.440%
11) 1,1-Dichloroethene-d2	2.101	63	286431	28.794	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	57.580%#
21) 2-Butanone-d5	3.892	46	302479	90.787	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.790%
24) Chloroform-d	4.343	84	412960	39.241	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.480%
26) 1,2-Dichloroethane-d4	5.031	65	256922	43.007	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.020%
32) Benzene-d6	5.047	84	889326	40.387	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.780%
36) 1,2-Dichloropropane-d6	6.066	67	272426	40.421	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	80.840%
41) Toluene-d8	7.313	98	776688	39.023	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.040%#
43) trans-1,3-Dichloroprop...	7.622	79	116349	39.080	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.160%
47) 2-Hexanone-d5	8.092	63	278025	95.958	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.960%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	395040	38.875	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	77.740%
66) 1,2-Dichlorobenzene-d4	11.622	152	321088	42.109	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.220%
Target Compounds						
					Qvalue	
8) Chloroethane	1.581	64	4615	1.271	ug/L #	73
13) Acetone	2.179	43	128735	52.168	ug/L	79
14) Carbon disulfide	2.294	76	6739	0.475	ug/L #	82
15) Methyl Acetate	2.433	43	30365	7.404	ug/L	91
16) Methylene chloride	2.500	84	30096	5.278	ug/L	98
19) 1,1-Dichloroethane	3.185	63	35560	4.158	ug/L	97
20) cis-1,2-Dichloroethene	3.908	96	11789	2.328	ug/L	96
22) 2-Butanone	3.992	43	5840	2.145	ug/L	86
27) 1,2-Dichloroethane	5.098	62	331018	53.347	ug/L #	71
29) Cyclohexane	4.670	56	41862	6.213	ug/L	99
37) 1,2-Dichloropropane	6.172	63	10700	2.116	ug/L	98
40) 4-Methyl-2-pentanone	7.239	43	11204	1.751	ug/L	98
42) Toluene	7.384	91	1783560	85.602	ug/L	100
45) 1,1,2-Trichloroethane	7.793	97	6717	1.240	ug/L #	1
48) 2-Hexanone	8.143	43	149037	29.564	ug/L	98
53) m,p-Xylene	9.140	106	12056	1.453	ug/L	96
54) o-Xylene	9.545	106	11938	1.494	ug/L	96
63) 1,2,4-Trimethylbenzene	10.918	105	5389	0.745	ug/L	96
65) 1,4-Dichlorobenzene	11.271	146	46656	4.309	ug/L	99

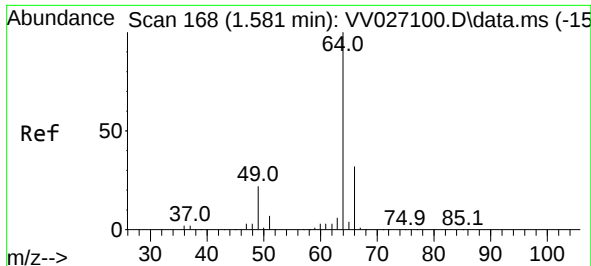
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Data File : VV027108.D
Acq On : 30 Jul 2022 01:30
Operator : SY/MD
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072822WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jul 30 01:28:32 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	11.641	146	420954	39.226	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.394	75	1402828	752.126	ug/L #	3

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



#8

Chloroethane

Concen: 1.271 ug/L

RT: 1.581 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

Instrument :

MSVOA_V

ClientSampleId :

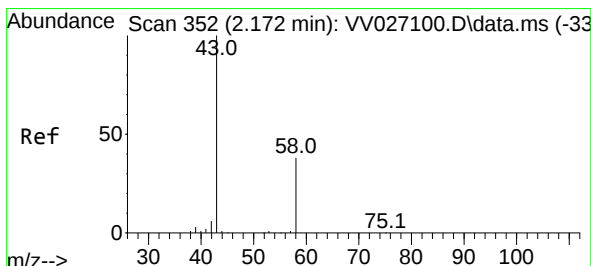
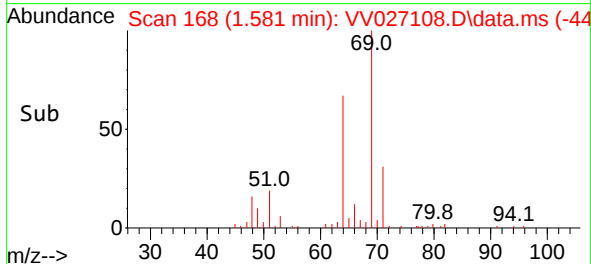
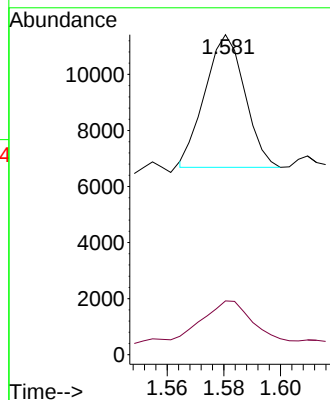
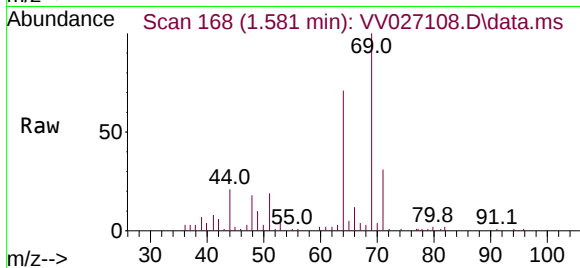
EXF04

Tgt Ion: 64 Resp: 4615

Ion Ratio Lower Upper

64 100

66 16.8 22.4 41.6#



#13

Acetone

Concen: 52.168 ug/L

RT: 2.179 min Scan# 354

Delta R.T. 0.006 min

Lab File: VV027108.D

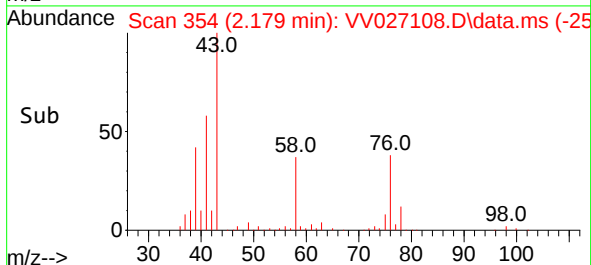
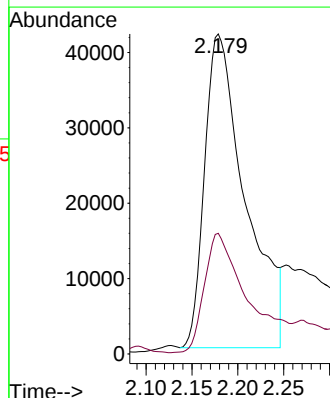
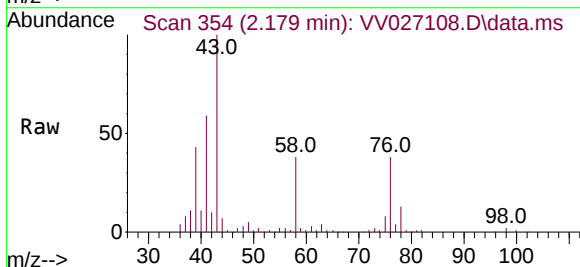
Acq: 30 Jul 2022 01:30

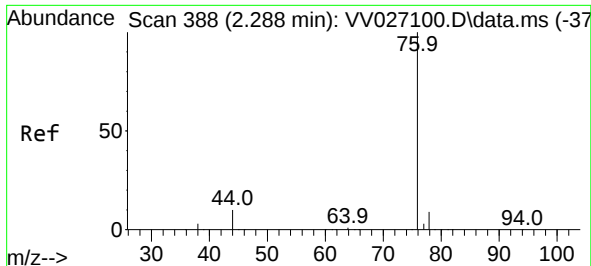
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Ion Ratio Lower Upper

43 100

58 35.2 0.0 49.6

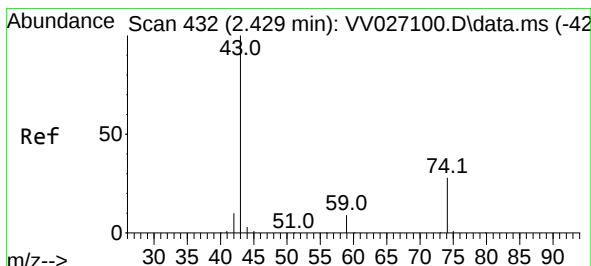
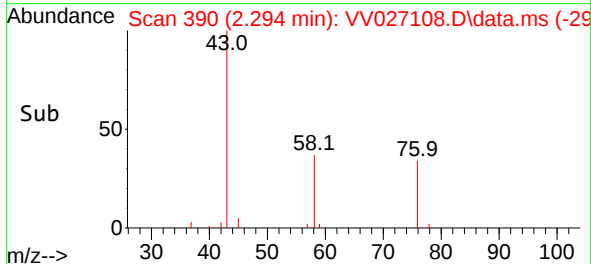
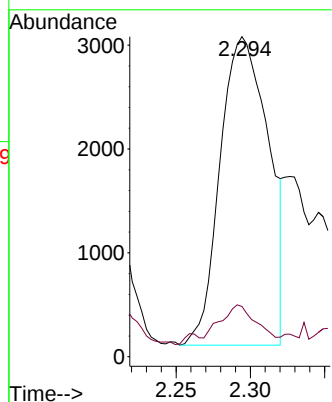
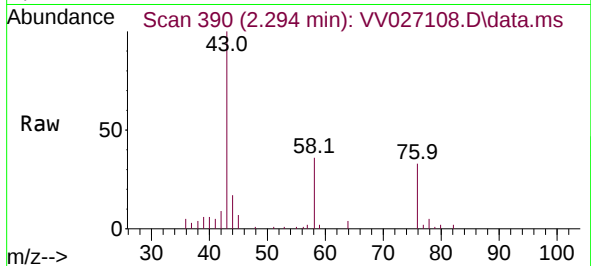




#14
Carbon disulfide
Concen: 0.475 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.006 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

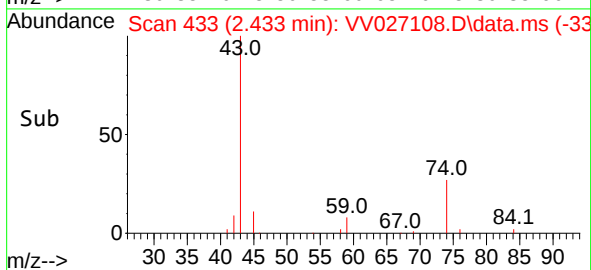
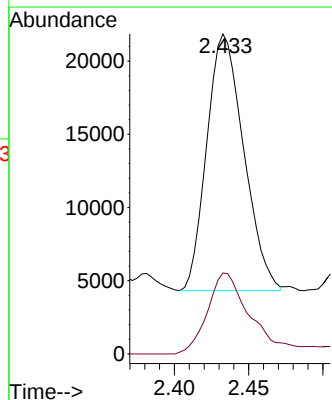
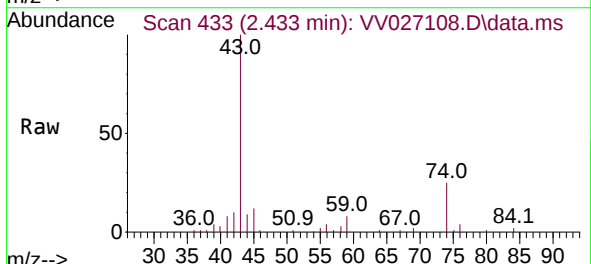
Instrument :
MSVOA_V
ClientSampleId :
EXF04

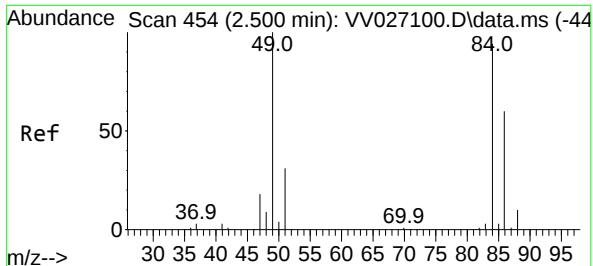
Tgt Ion: 76 Resp: 6739
Ion Ratio Lower Upper
76 100
78 15.7 7.3 10.9#



#15
Methyl Acetate
Concen: 7.404 ug/L
RT: 2.433 min Scan# 433
Delta R.T. 0.003 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

Tgt Ion: 43 Resp: 30365
Ion Ratio Lower Upper
43 100
74 36.8 25.5 38.3

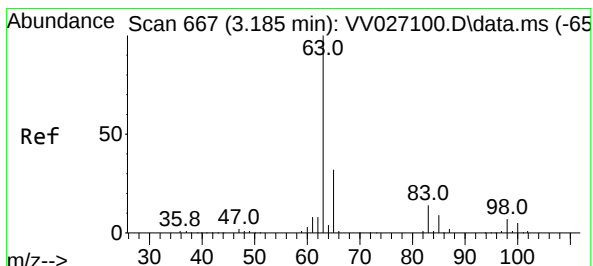
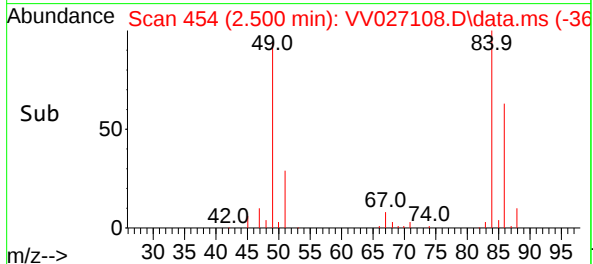
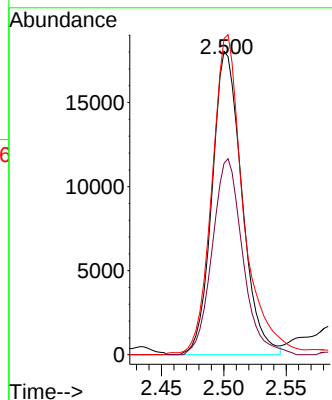
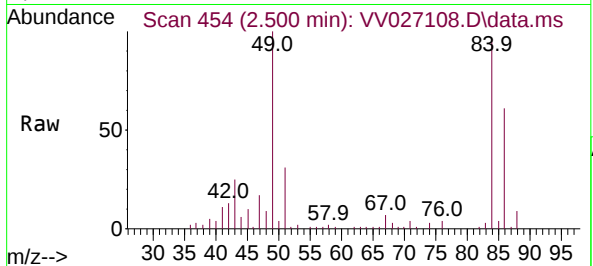




#16
Methylene chloride
Concen: 5.278 ug/L
RT: 2.500 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

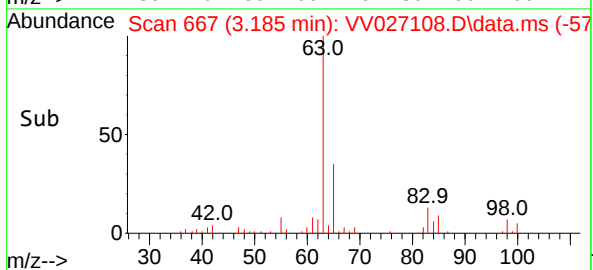
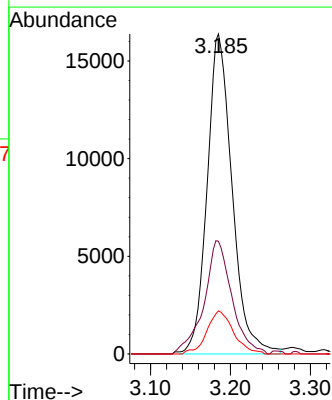
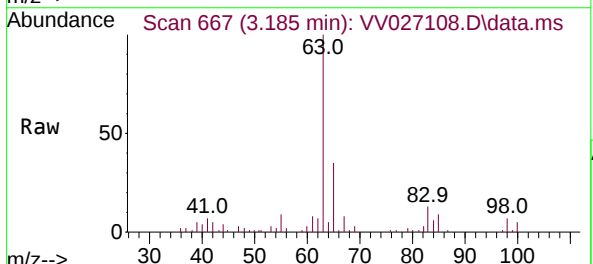
Instrument :
MSVOA_V
ClientSampleId :
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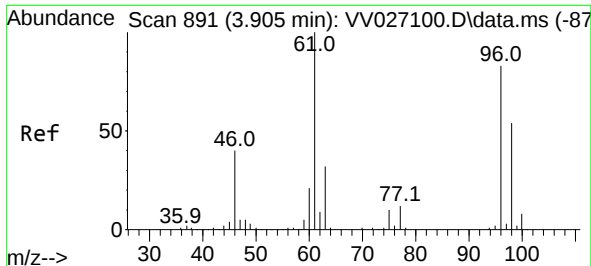
Tgt Ion: 84 Resp: 30096
Ion Ratio Lower Upper
84 100
86 63.1 45.0 83.6
49 104.2 74.1 137.7



#19
1,1-Dichloroethane
Concen: 4.158 ug/L
RT: 3.185 min Scan# 667
Delta R.T. 0.000 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

Tgt Ion: 63 Resp: 35560
Ion Ratio Lower Upper
63 100
65 35.2 22.7 42.3
83 13.5 9.5 17.7

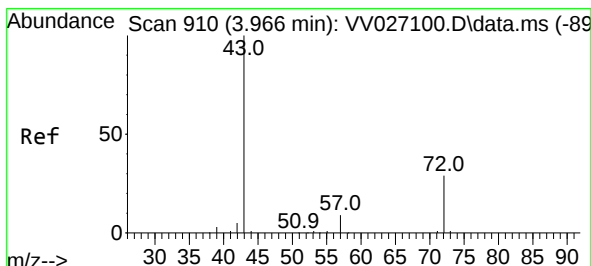
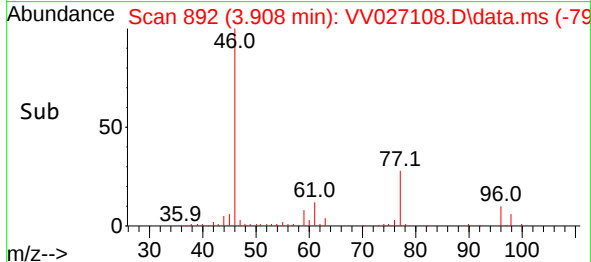
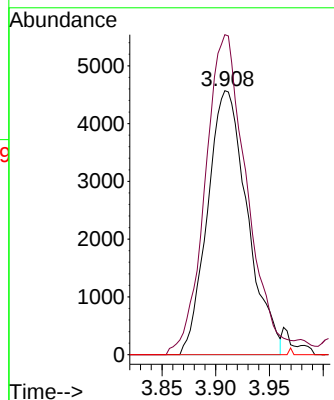
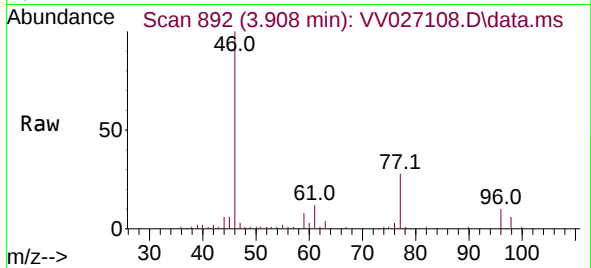




#20
 cis-1,2-Dichloroethene
 Concen: 2.328 ug/L
 RT: 3.908 min Scan# 891
 Delta R.T. 0.003 min
 Lab File: VV027108.D
 Acq: 30 Jul 2022 01:30

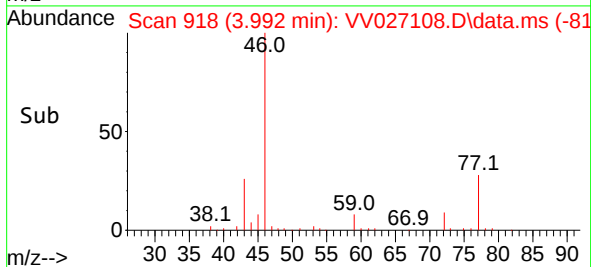
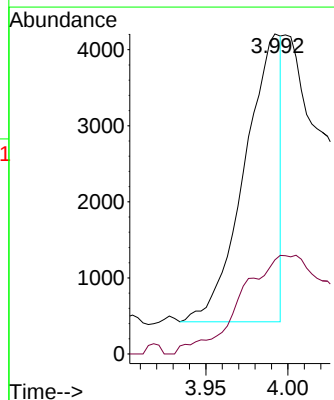
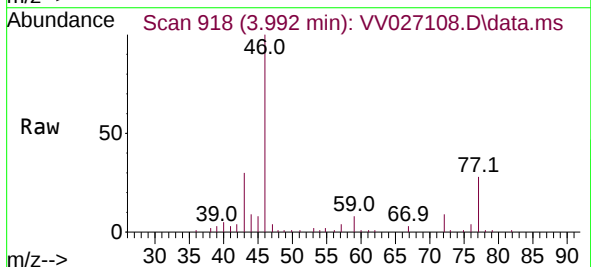
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF04

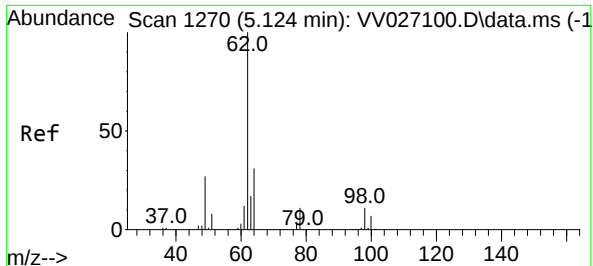
Tgt Ion: 96 Resp: 11789
 Ion Ratio Lower Upper
 96 100
 61 121.2 81.8 151.8
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 2.145 ug/L
 RT: 3.992 min Scan# 918
 Delta R.T. 0.026 min
 Lab File: VV027108.D
 Acq: 30 Jul 2022 01:30

Tgt Ion: 43 Resp: 5840
 Ion Ratio Lower Upper
 43 100
 72 17.0 11.9 35.7





#27

1,2-Dichloroethane

Concen: 53.347 ug/L

RT: 5.098 min Scan# 11

Delta R.T. -0.026 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

Instrument :

MSVOA_V

ClientSampleId :

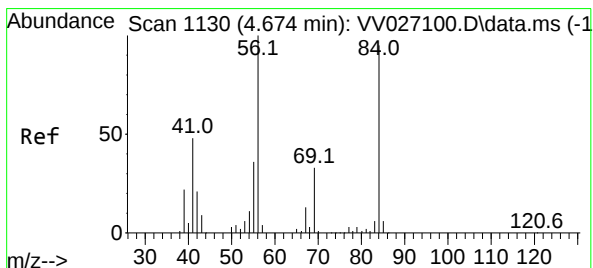
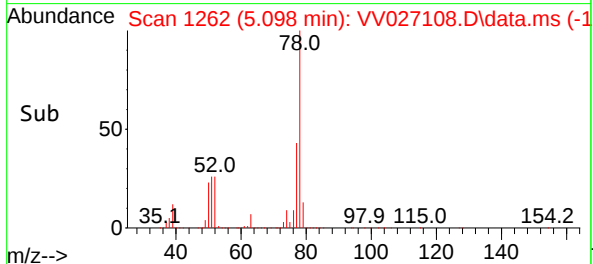
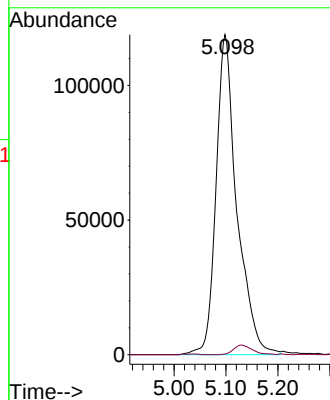
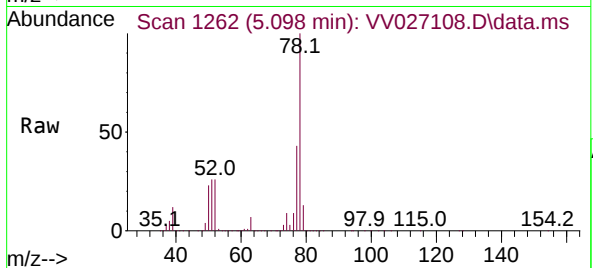
EXF04

Tgt Ion: 62 Resp: 331018

Ion Ratio Lower Upper

62 100

98 0.2 9.0 13.6#



#29

Cyclohexane

Concen: 6.213 ug/L

RT: 4.670 min Scan# 1129

Delta R.T. -0.003 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

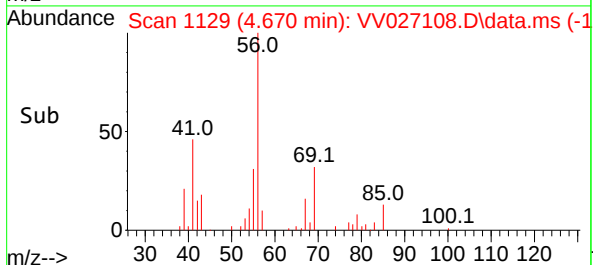
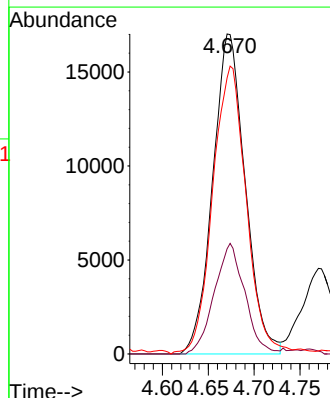
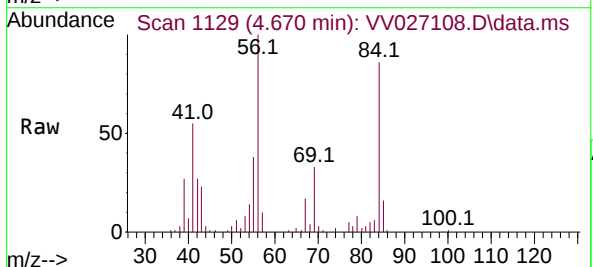
Tgt Ion: 56 Resp: 41862

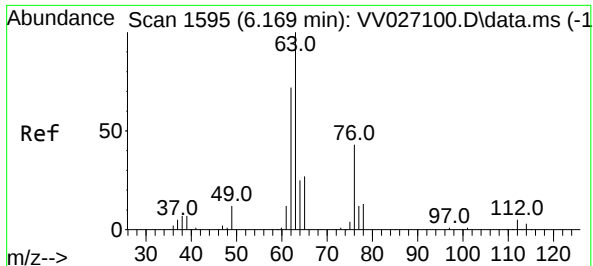
Ion Ratio Lower Upper

56 100

69 32.5 25.9 38.9

84 92.7 75.3 112.9





#37

1,2-Dichloropropane

Concen: 2.116 ug/L

RT: 6.172 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

Instrument :

MSVOA_V

ClientSampleId :

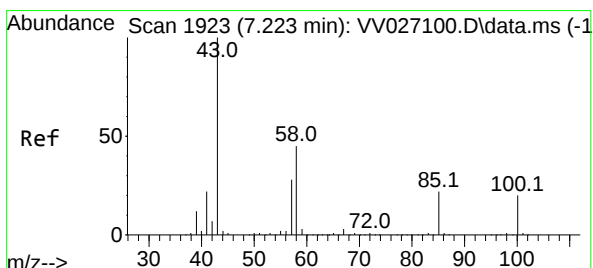
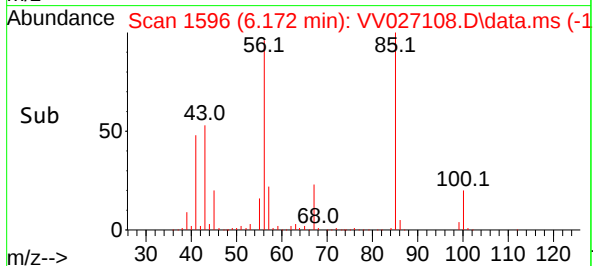
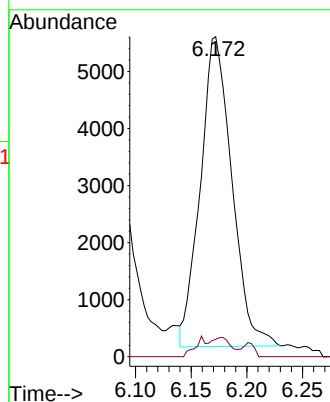
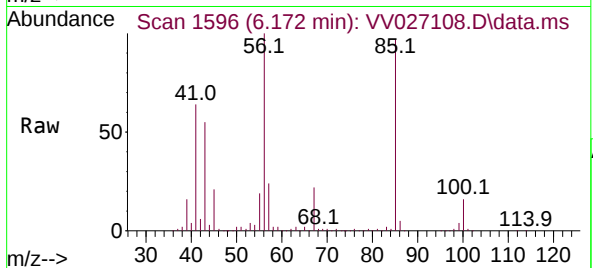
EXF04

Tgt Ion: 63 Resp: 10700

Ion Ratio Lower Upper

63 100

112 4.1 3.7 5.5



#40

4-Methyl-2-pentanone

Concen: 1.751 ug/L

RT: 7.239 min Scan# 1928

Delta R.T. 0.016 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

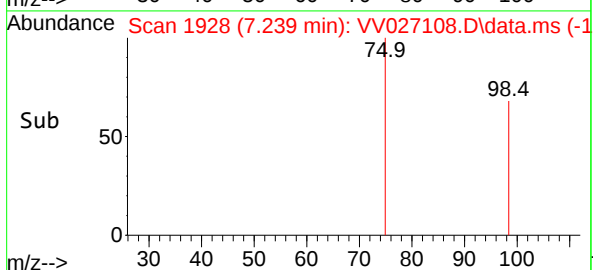
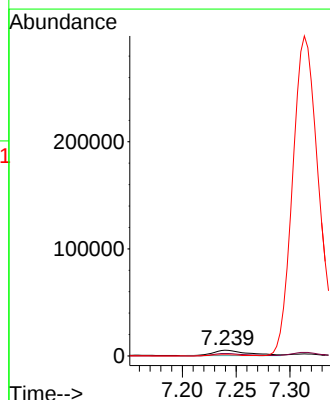
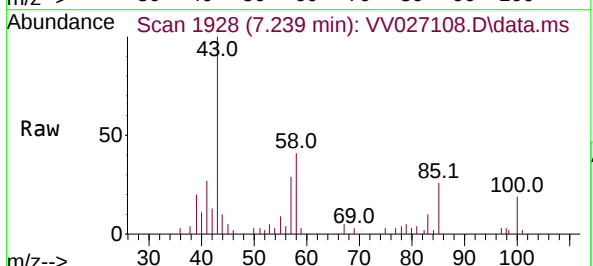
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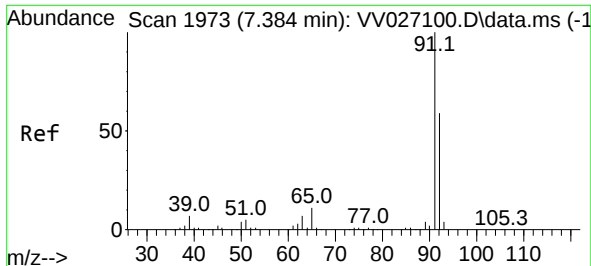
Ion Ratio Lower Upper

43 100

58 43.3 35.3 52.9

100 17.4 15.7 23.5





#42

Toluene

Concen: 85.602 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. 0.000 min

Lab File: VV027108.D

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ClientSampleId :

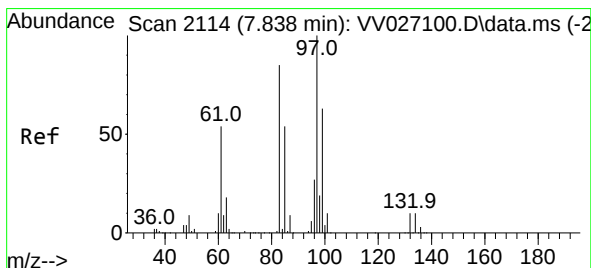
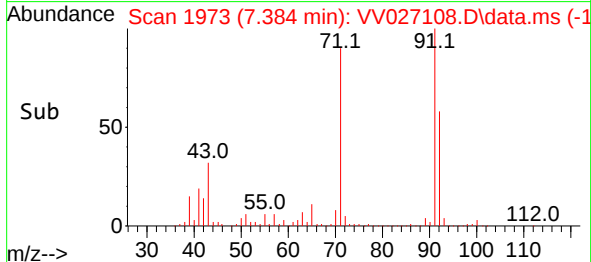
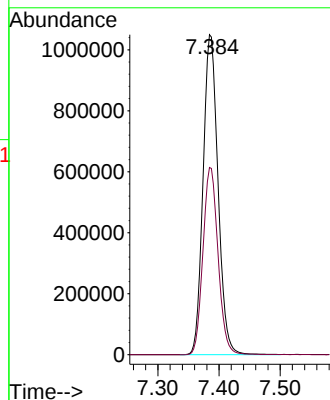
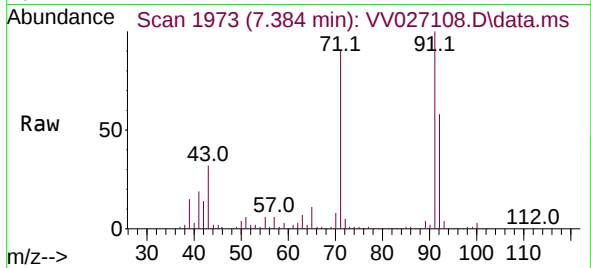
EXF04

Tgt Ion: 91 Resp: 1783560

Ion Ratio Lower Upper

91 100

92 58.5 40.9 76.0



#45

1,1,2-Trichloroethane

Concen: 1.240 ug/L

RT: 7.793 min Scan# 2100

Delta R.T. -0.045 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

Tgt Ion: 97 Resp: 6717

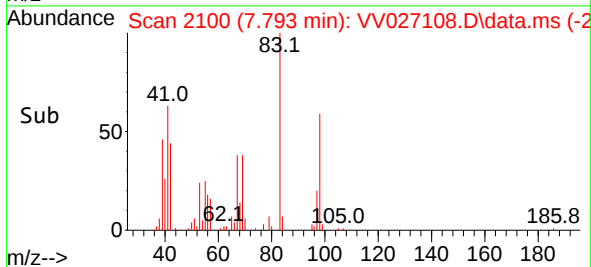
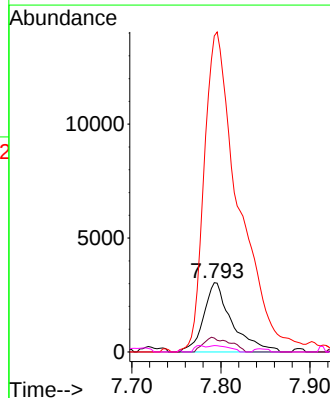
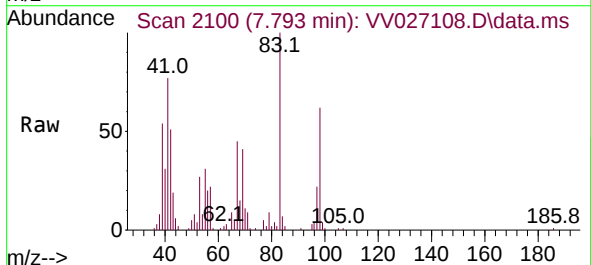
Ion Ratio Lower Upper

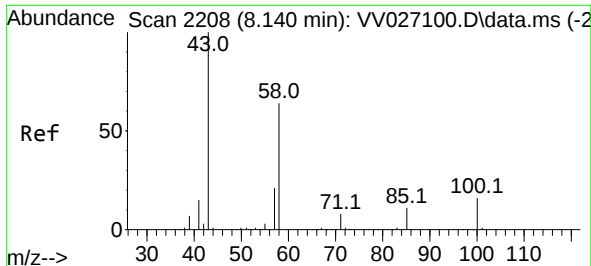
97 100

99 20.2 43.2 80.2#

83 455.9 58.0 107.6#

85 9.3 38.5 71.5#

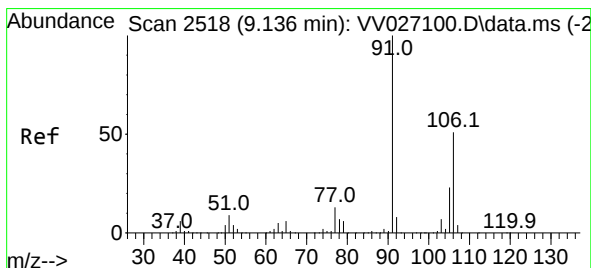
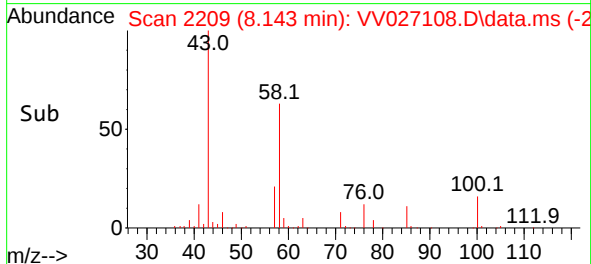
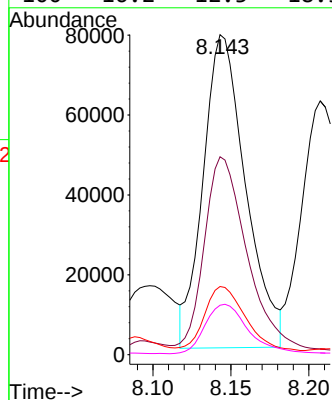
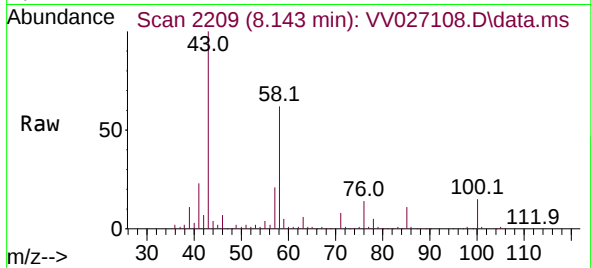




#48
2-Hexanone
Concen: 29.564 ug/L
RT: 8.143 min Scan# 2190
Delta R.T. 0.003 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

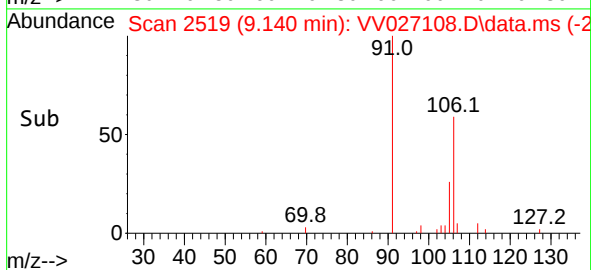
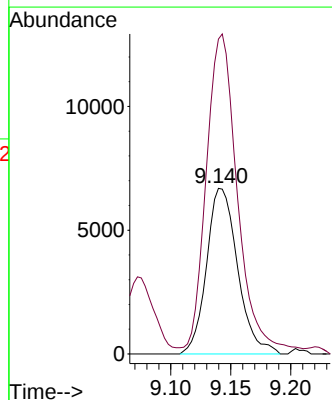
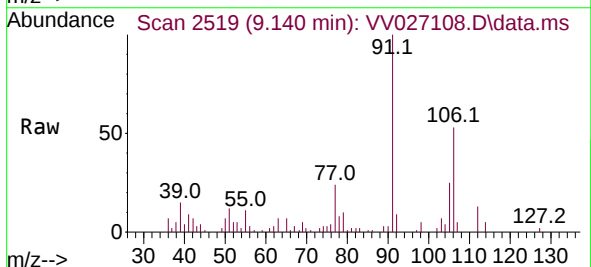
Instrument :
MSVOA_V
ClientSampleId :
EXF04

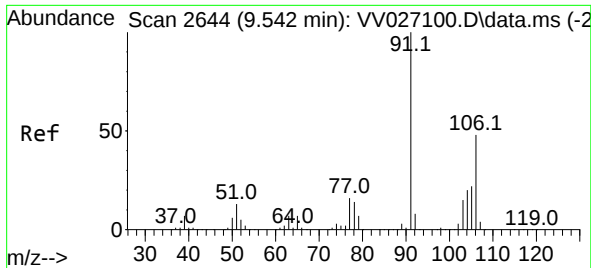
Tgt Ion: 43 Resp: 149037
Ion Ratio Lower Upper
43 100
58 65.5 50.8 76.2
57 21.7 17.1 25.7
100 16.2 12.3 18.5



#53
m,p-Xylene
Concen: 1.453 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.003 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

Tgt Ion: 106 Resp: 12056
Ion Ratio Lower Upper
106 100
91 190.1 137.5 255.3

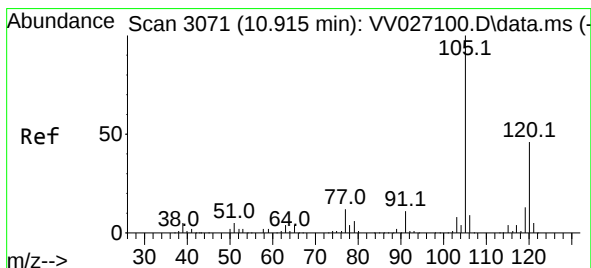
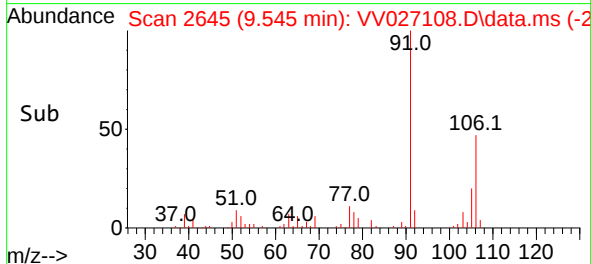
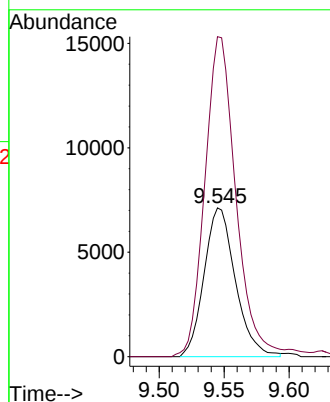
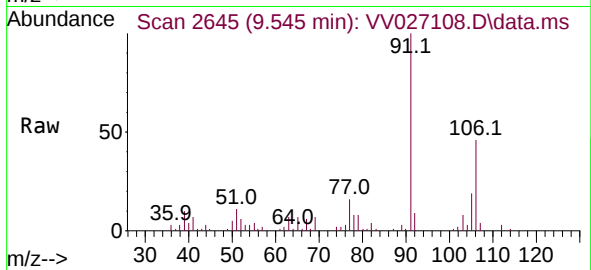




#54
o-Xylene
Concen: 1.494 ug/L
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

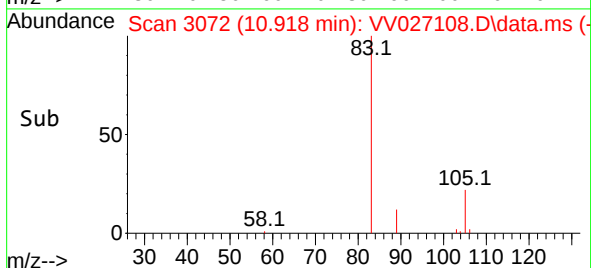
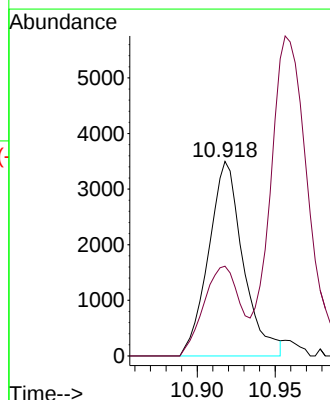
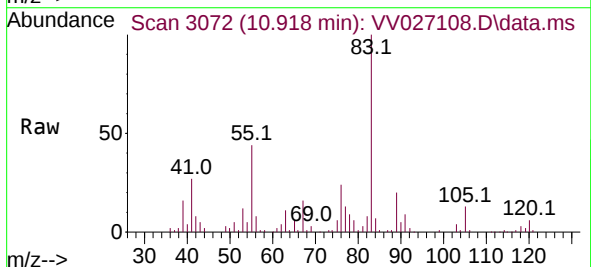
Instrument :
MSVOA_V
ClientSampleId :
EXF04

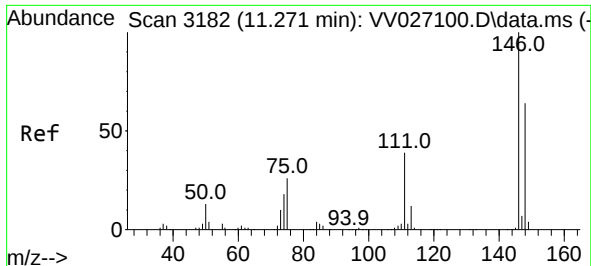
Tgt Ion:106 Resp: 11938
Ion Ratio Lower Upper
106 100
91 215.2 146.6 272.2



#63
1,2,4-Trimethylbenzene
Concen: 0.745 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.003 min
Lab File: VV027108.D
Acq: 30 Jul 2022 01:30

Tgt Ion:105 Resp: 5389
Ion Ratio Lower Upper
105 100
120 48.7 37.0 55.6





#65

1,4-Dichlorobenzene

Concen: 4.309 ug/L

RT: 11.271 min Scan# 3182

Delta R.T. 0.000 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

Instrument :

MSVOA_V

ClientSampleId :

EXF04

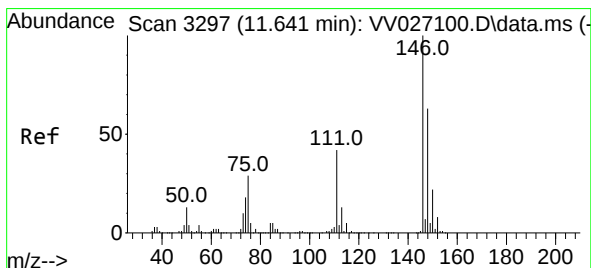
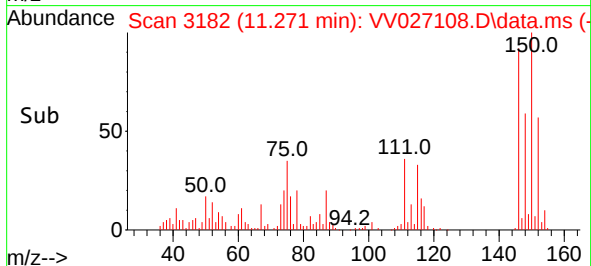
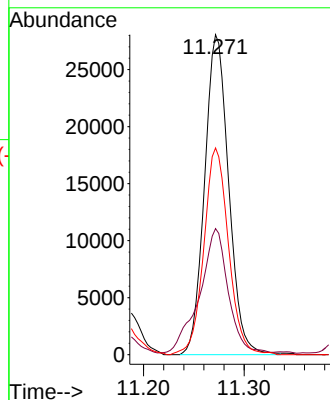
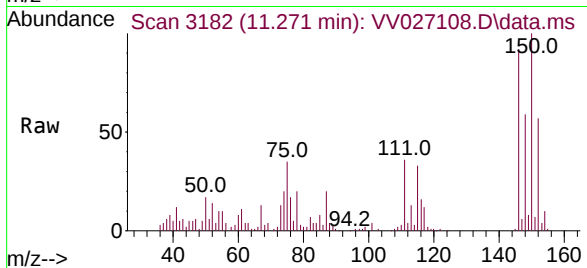
Tgt Ion:146 Resp: 46656

Ion Ratio Lower Upper

146 100

111 39.4 27.4 51.0

148 64.6 44.6 82.8



#67

1,2-Dichlorobenzene

Concen: 39.226 ug/L

RT: 11.641 min Scan# 3297

Delta R.T. 0.000 min

Lab File: VV027108.D

Acq: 30 Jul 2022 01:30

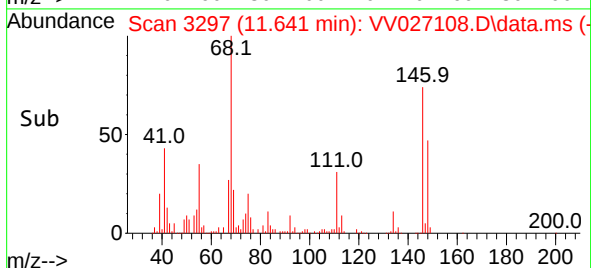
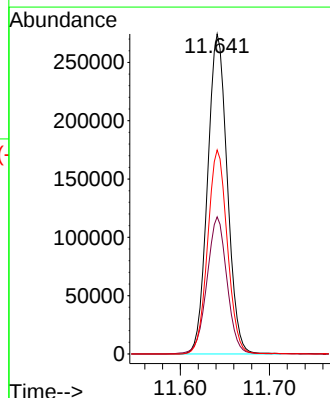
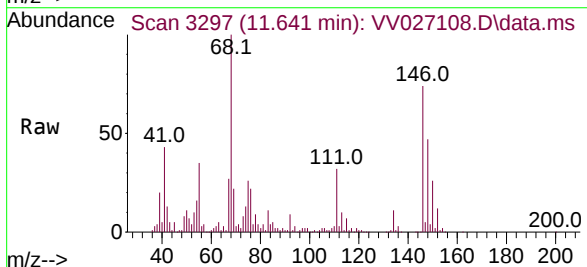
Tgt Ion:146 Resp: 420954

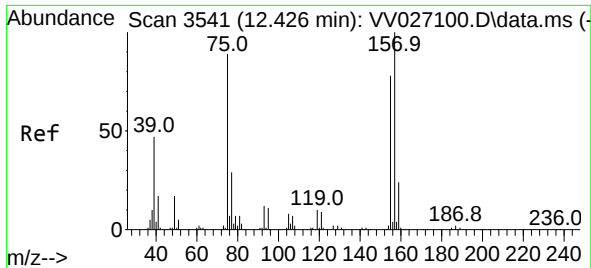
Ion Ratio Lower Upper

146 100

111 42.8 34.0 51.0

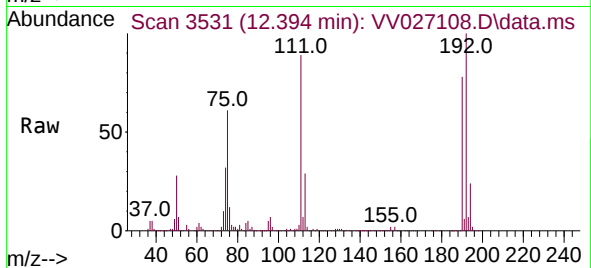
148 63.7 50.5 75.7





#68
 1,2-Dibromo-3-chloropropane
 Concen: 752.126 ug/L
 RT: 12.394 min Scan# 31
 Delta R.T. -0.032 min
 Lab File: VV027108.D
 Acq: 30 Jul 2022 01:30

Instrument :
 MSVOA_V
 ClientSampleId :
 EXF04



Tgt Ion: 75 Resp: 1402828
 Ion Ratio Lower Upper
 75 100
 155 3.0 69.1 103.7#
 157 2.6 87.8 131.8#

