

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW092622\
 Data File : VW028126.D
 Acq On : 26 Sep 2022 19:09
 Operator : SY/MD
 Sample : N4820-13
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 21:32:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Sep 26 21:28:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	170548	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	177955	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	96268	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.298	65	59362	3.357	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.200%
7) Chloroethane-d5	1.561	69	54189	3.855	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.000%
11) 1,1-Dichloroethene-d2	2.098	63	77138	2.515	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	50.400%#
20) 2-Butanone-d5	3.915	46	131942	44.201	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.400%
24) Chloroform-d	4.342	84	121396	4.303	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
26) 1,2-Dichloroethane-d4	5.031	65	58338	4.345	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.000%
32) Benzene-d6	5.043	84	220092	3.772	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.400%
36) 1,2-Dichloropropane-d6	6.066	67	75694	4.161	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.200%
41) Toluene-d8	7.313	98	174210	3.298	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.000%#
43) trans-1,3-Dichloroprop...	7.622	79	24533	3.734	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.600%
46) 2-Hexanone-d5	8.088	63	123402	44.997	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.000%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	56685	4.559	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.200%
66) 1,2-Dichlorobenzene-d4	11.619	152	85055	4.504	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	796	0.062	ug/L	92
3) Chloromethane	1.233	50	2389	0.142	ug/L	91
5) Vinyl chloride	1.304	62	1962	0.148	ug/L #	39
14) Carbon disulfide	2.281	76	2894	0.128	ug/L #	87
17) Methyl tert-butyl Ether	2.773	73	2106	0.083	ug/L #	65
18) trans-1,2-Dichloroethene	2.751	96	396	0.038	ug/L	75
22) cis-1,2-Dichloroethene	3.915	96	781	0.058	ug/L	82
30) Cyclohexane	4.670	56	13756	0.870	ug/L	90
33) Benzene	5.101	78	11060	0.224	ug/L	100
35) Methylcyclohexane	6.124	83	12236	0.725	ug/L	96
37) 1,2-Dichloropropane	6.066	63	8161	0.589	ug/L #	87
39) cis-1,3-Dichloropropene	6.982	75	1600	0.093	ug/L #	52
45) 1,1,2-Trichloroethane	7.780	97	1496	0.161	ug/L #	21
51) Chlorobenzene	8.876	112	2684722	77.653	ug/L	99
52) Ethylbenzene	9.011	91	4621	0.085	ug/L	98
53) m,p-Xylene	9.136	106	5931	0.284	ug/L	87
54) o-Xylene	9.545	106	8502	0.412	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.249	83	1238	0.114	ug/L #	25
60) Isopropylbenzene	9.927	105	128073	2.267	ug/L #	86

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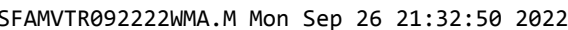
Quant Time: Sep 26 21:32:43 2022
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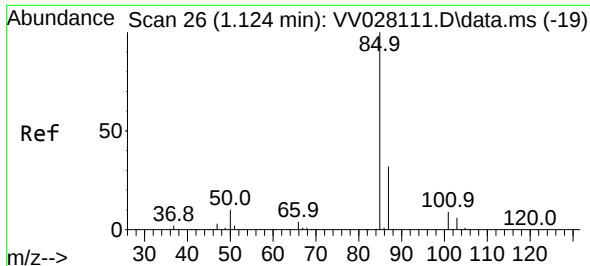
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

61) 1,2,3-Trichloropropane	11.268	75	60013	7.433	ug/L #	48
62) 1,3,5-Trimethylbenzene	10.734	105	26819	1.685	ug/L #	74
63) 1,2,4-Trimethylbenzene	11.333	105	15990	0.359	ug/L	90
64) 1,3-Dichlorobenzene	11.181	146	6876	0.245	ug/L	89
65) 1,4-Dichlorobenzene	11.268	146	176375	6.270	ug/L	98
67) 1,2-Dichlorobenzene	11.641	146	15565	0.586	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.406	75	5886	3.326	ug/L #	1
71) Naphthalene	13.503	128	5015	0.172	ug/L #	83

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

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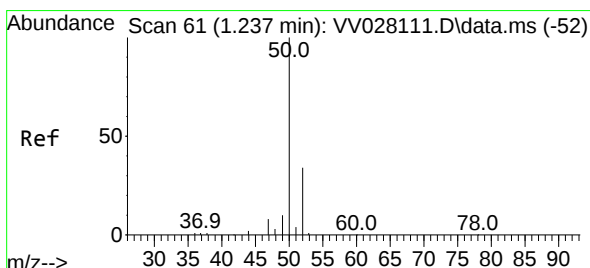
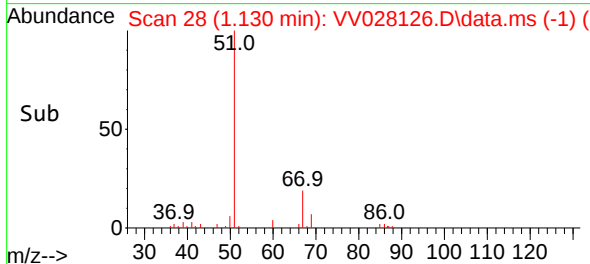
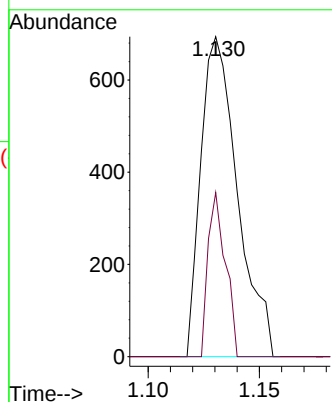
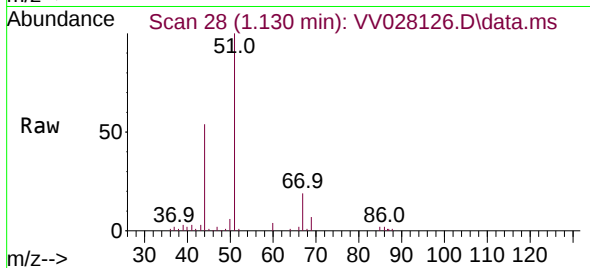




#2
 Dichlorodifluoromethane
 Concen: 0.062 ug/L
 RT: 1.130 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VV028126.D
 Acq: 26 Sep 2022 19:09

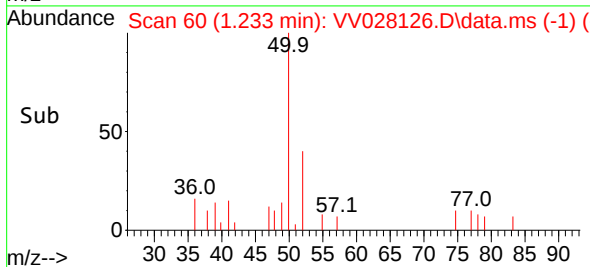
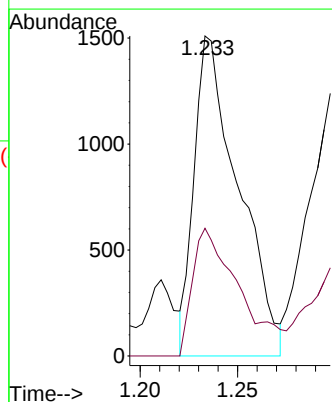
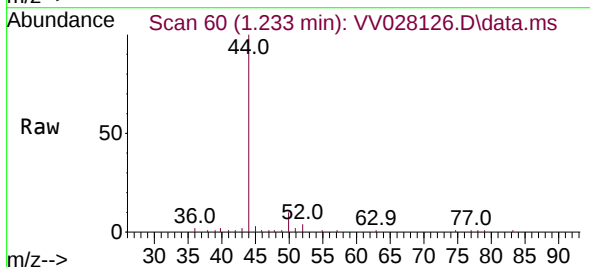
Instrument :
 MSVOA_V
 ClientSampleId :

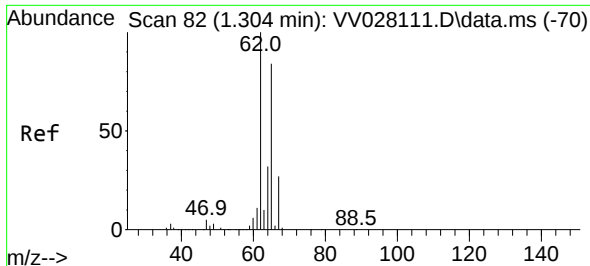
Tgt Ion: 85 Resp: 796
 Ion Ratio Lower Upper
 85 100
 87 24.2 22.8 34.2



#3
 Chloromethane
 Concen: 0.142 ug/L
 RT: 1.233 min Scan# 60
 Delta R.T. -0.003 min
 Lab File: VV028126.D
 Acq: 26 Sep 2022 19:09

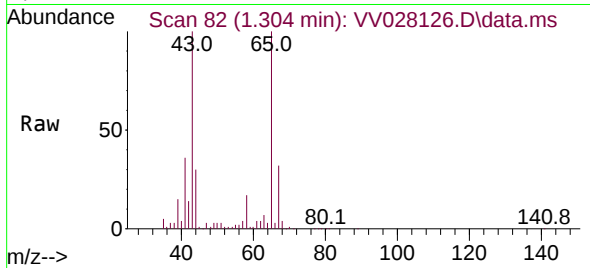
Tgt Ion: 50 Resp: 2389
 Ion Ratio Lower Upper
 50 100
 52 39.9 24.4 45.2



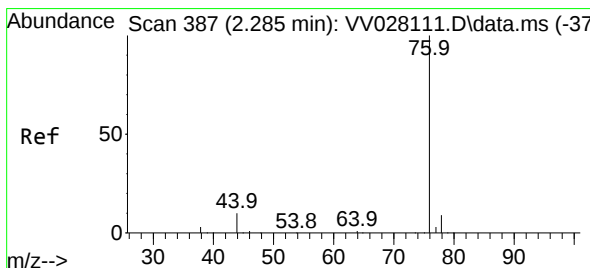
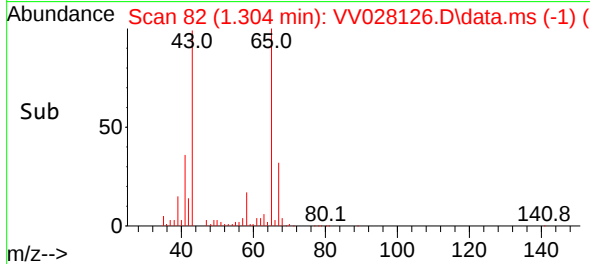
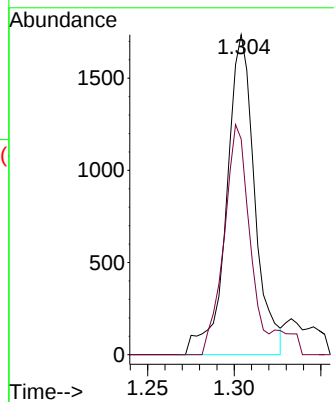


#5
 Vinyl chloride
 Concen: 0.148 ug/L
 RT: 1.304 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VV028126.D
 Acq: 26 Sep 2022 19:09

Instrument :
 MSVOA_V
 ClientSampleId :

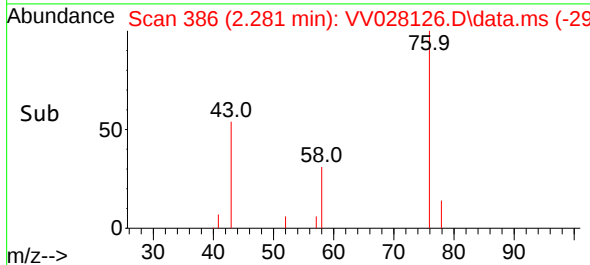
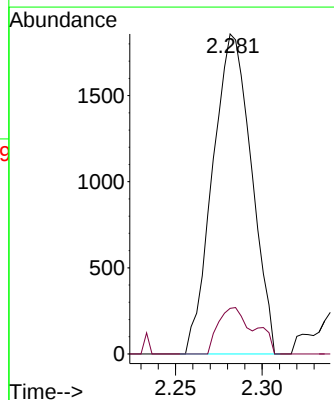
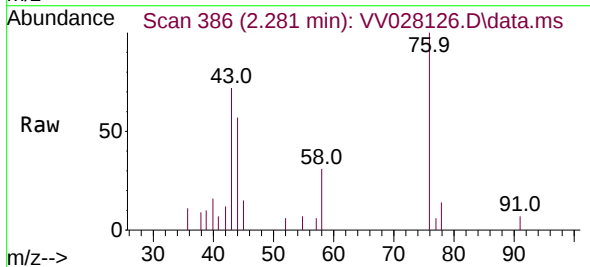


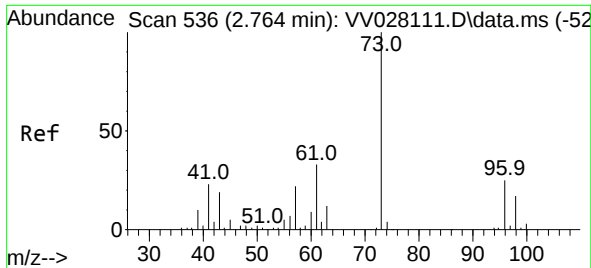
Tgt Ion: 62 Resp: 1962
 Ion Ratio Lower Upper
 62 100
 64 67.4 23.0 42.8#



#14
 Carbon disulfide
 Concen: 0.128 ug/L
 RT: 2.281 min Scan# 386
 Delta R.T. -0.003 min
 Lab File: VV028126.D
 Acq: 26 Sep 2022 19:09

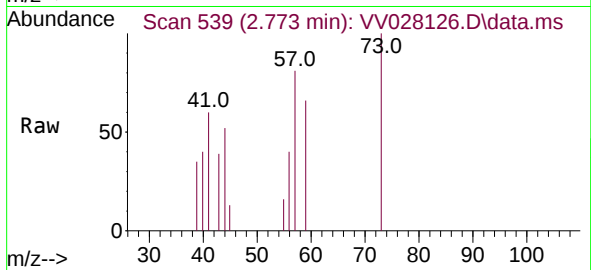
Tgt Ion: 76 Resp: 2894
 Ion Ratio Lower Upper
 76 100
 78 14.3 7.6 11.4#



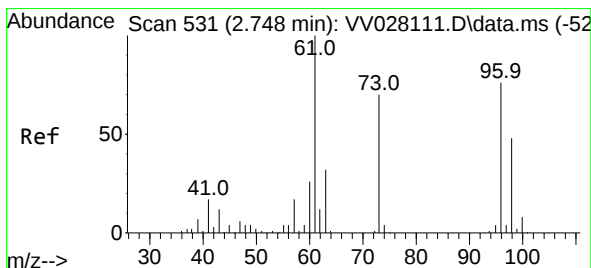
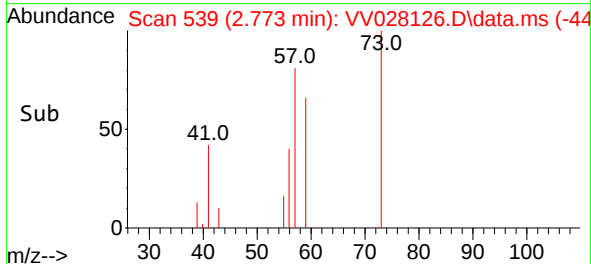
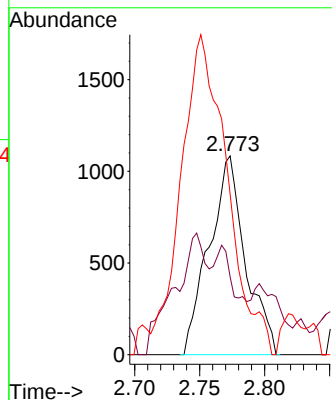


#17
Methyl tert-butyl Ether
Concen: 0.083 ug/L
RT: 2.773 min Scan# 51
Delta R.T. 0.010 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

Instrument :
MSVOA_V
ClientSampleId :

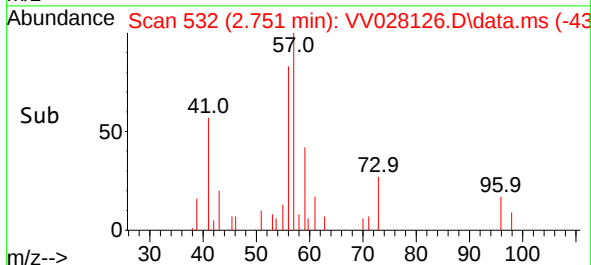
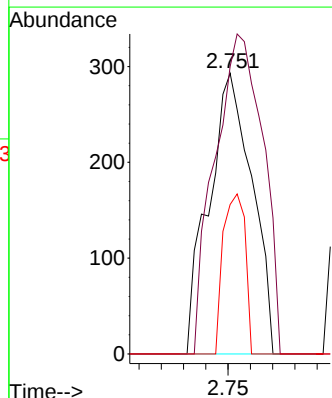
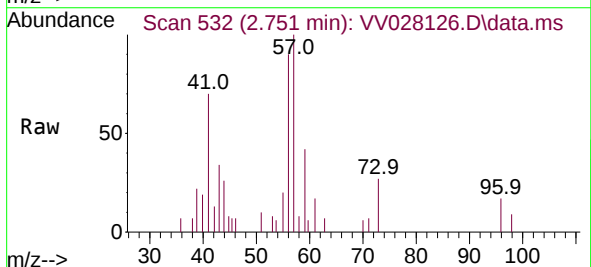


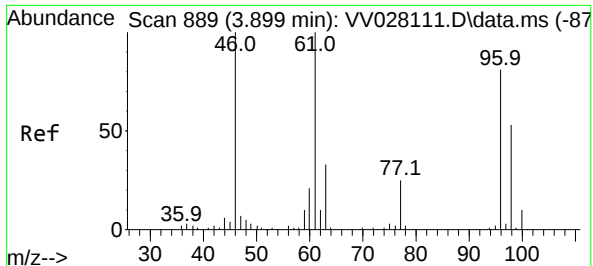
Tgt Ion: 73 Resp: 2106
Ion Ratio Lower Upper
73 100
43 29.6 15.7 23.5#
57 0.0 17.8 26.8#



#18
trans-1,2-Dichloroethene
Concen: 0.038 ug/L
RT: 2.751 min Scan# 532
Delta R.T. 0.003 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

Tgt Ion: 96 Resp: 396
Ion Ratio Lower Upper
96 100
61 102.4 96.2 178.6
98 53.2 45.7 84.9





#22

cis-1,2-Dichloroethene

Concen: 0.058 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.016 min

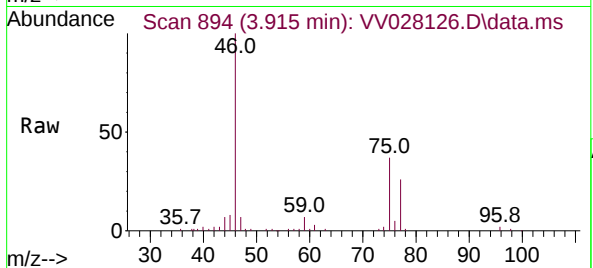
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Acq: 26 Sep 2022 19:09

Instrument :

MSVOA_V

ClientSampleId :



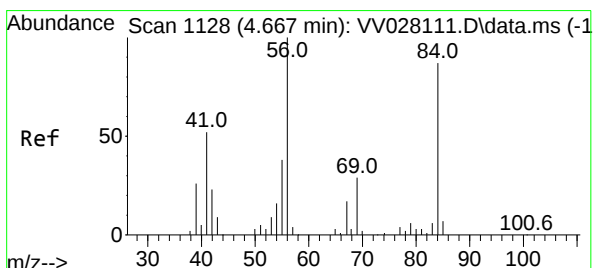
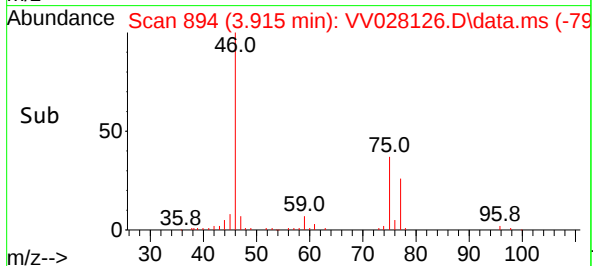
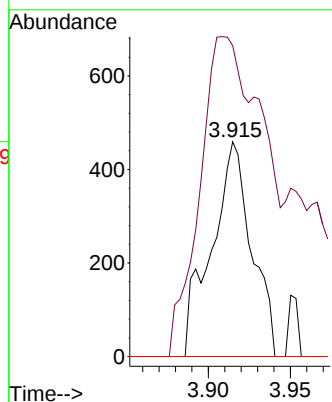
Tgt Ion: 96 Resp: 781

Ion Ratio Lower Upper

96 100

61 144.9 87.2 161.9

68 0.0 0.0 0.0



#30

Cyclohexane

Concen: 0.870 ug/L

RT: 4.670 min Scan# 1129

Delta R.T. 0.003 min

Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

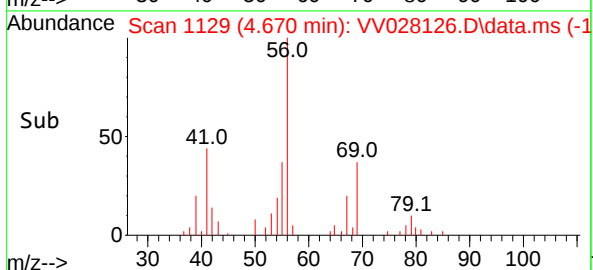
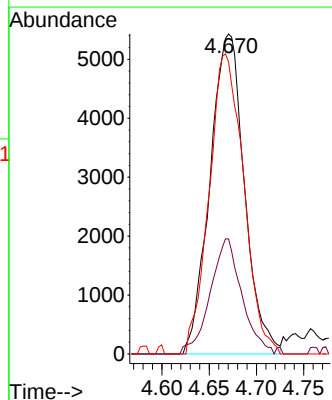
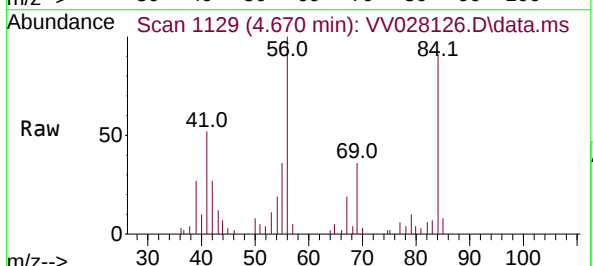
Tgt Ion: 56 Resp: 13756

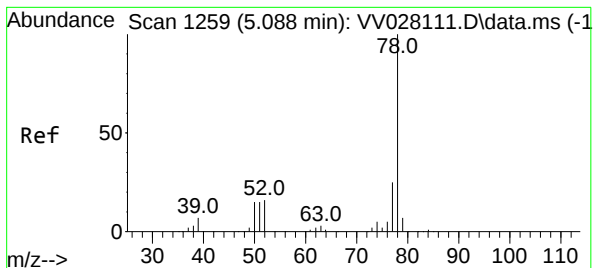
Ion Ratio Lower Upper

56 100

69 33.0 23.7 35.5

84 93.9 67.3 100.9





#33

Benzene

Concen: 0.224 ug/L

RT: 5.101 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV028126.D

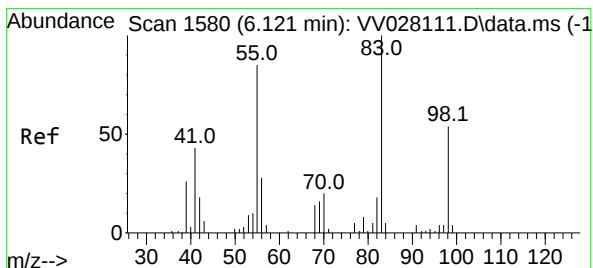
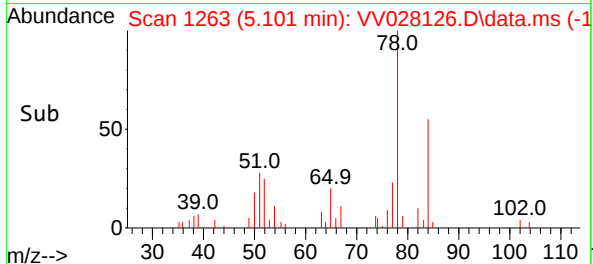
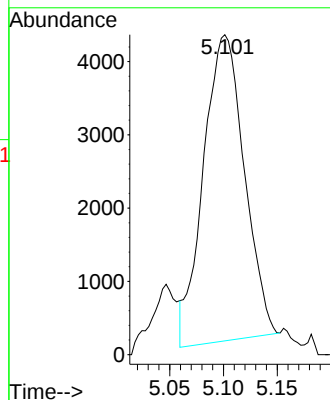
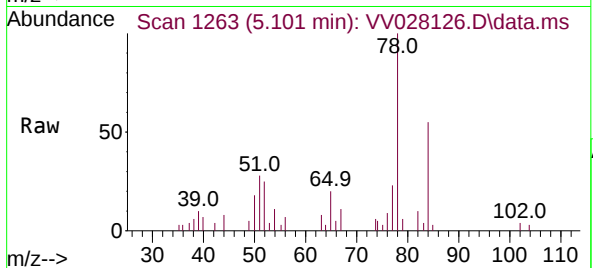
Acq: 26 Sep 2022 19:09

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 11060



#35

Methylcyclohexane

Concen: 0.725 ug/L

RT: 6.124 min Scan# 1581

Delta R.T. 0.003 min

Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

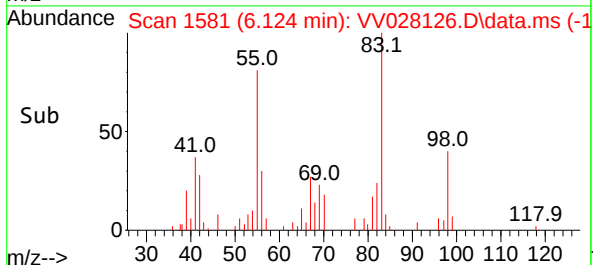
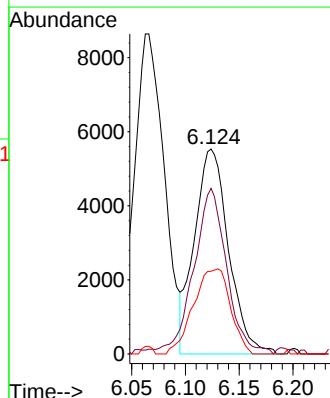
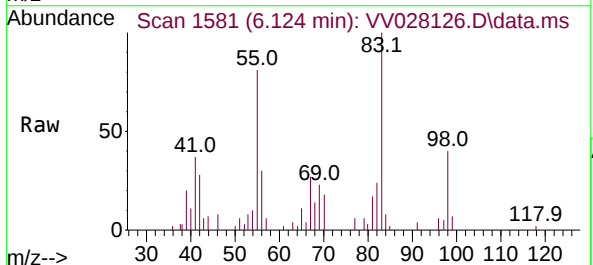
Tgt Ion: 83 Resp: 12236

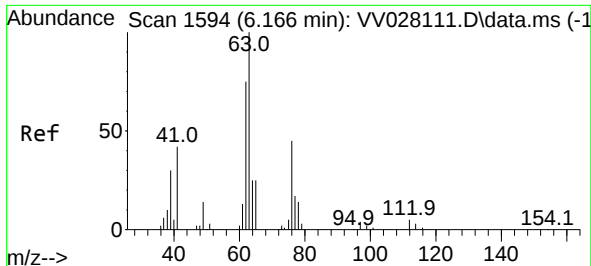
Ion Ratio Lower Upper

83 100

55 78.3 64.7 97.1

98 44.8 39.5 59.3





#37

1,2-Dichloropropane

Concen: 0.589 ug/L

RT: 6.066 min Scan# 11

Delta R.T. -0.100 min

Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

Instrument :

MSVOA_V

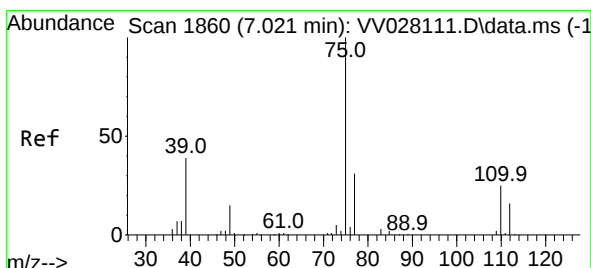
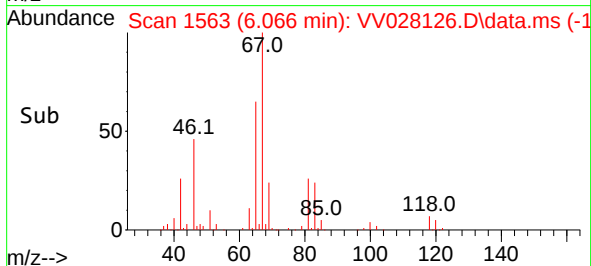
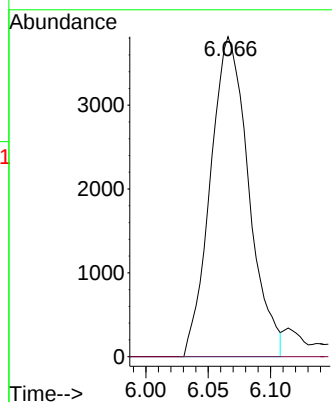
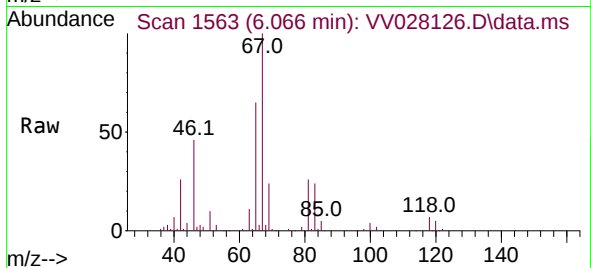
ClientSampleId :

Tgt Ion: 63 Resp: 8161

Ion Ratio Lower Upper

63 100

112 0.3 3.5 5.3#



#39

cis-1,3-Dichloropropene

Concen: 0.093 ug/L

RT: 6.982 min Scan# 1848

Delta R.T. -0.039 min

Lab File: VV028126.D

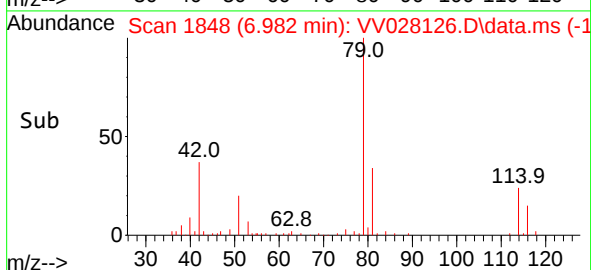
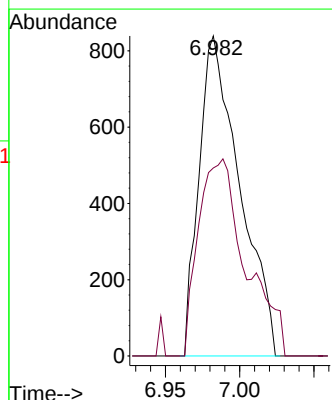
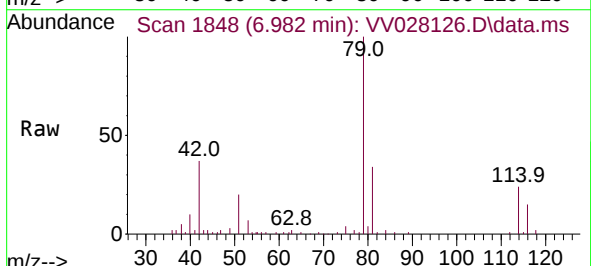
Acq: 26 Sep 2022 19:09

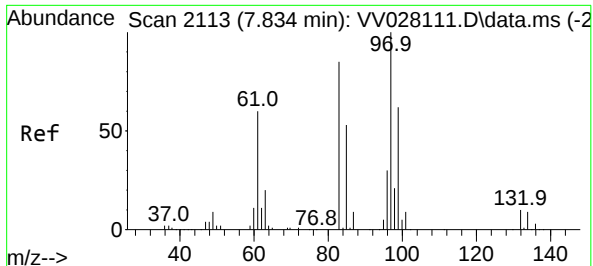
Tgt Ion: 75 Resp: 1600

Ion Ratio Lower Upper

75 100

77 58.8 22.4 41.6#





#45

1,1,2-Trichloroethane

Concen: 0.161 ug/L

RT: 7.780 min Scan# 2096

Delta R.T. -0.055 min

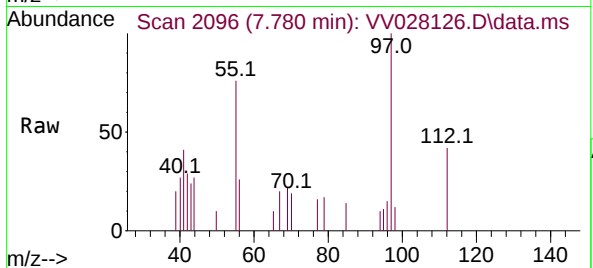
Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 97 Resp: 1496

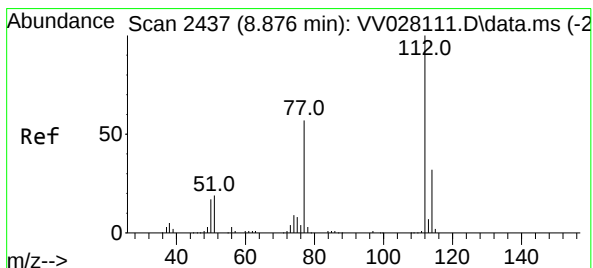
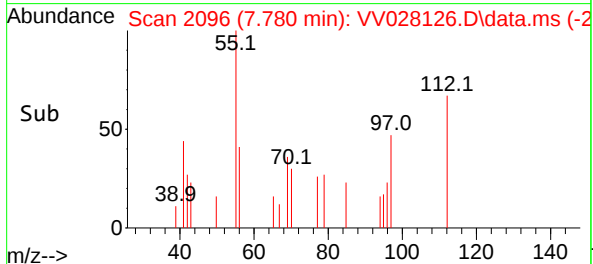
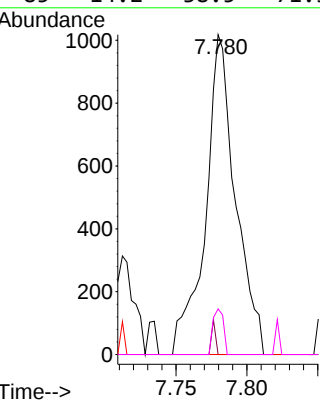
Ion Ratio Lower Upper

97 100

99 0.0 43.2 80.2#

83 0.0 59.1 109.9#

85 14.2 38.5 71.5#



#51

Chlorobenzene

Concen: 77.653 ug/L

RT: 8.876 min Scan# 2437

Delta R.T. -0.000 min

Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

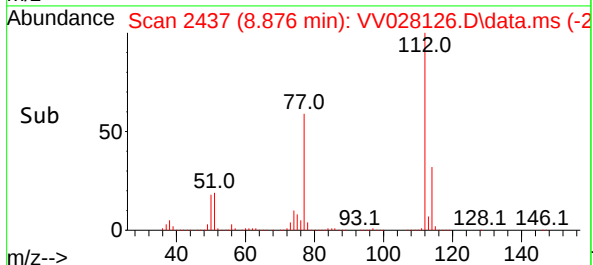
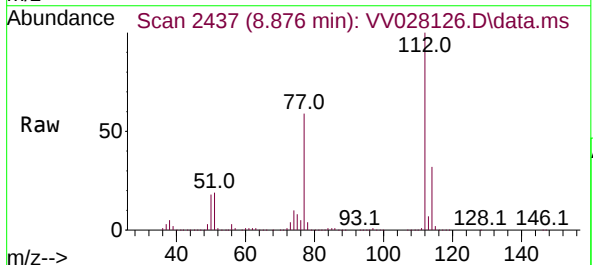
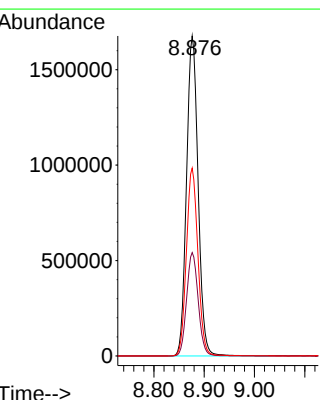
Tgt Ion:112 Resp: 2684722

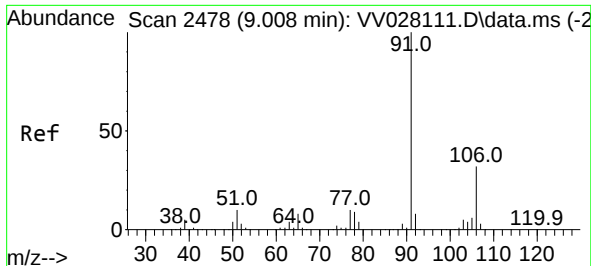
Ion Ratio Lower Upper

112 100

114 32.3 22.5 41.7

77 58.7 46.1 69.1





#52

Ethylbenzene

Concen: 0.085 ug/L

RT: 9.011 min Scan# 2478

Delta R.T. 0.003 min

Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

Instrument :

MSVOA_V

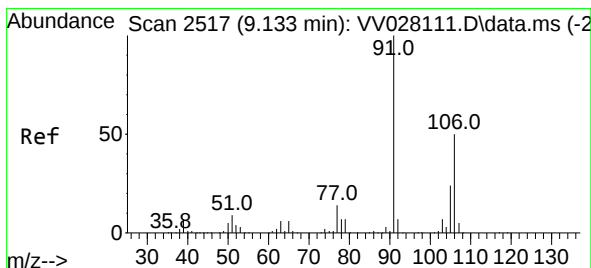
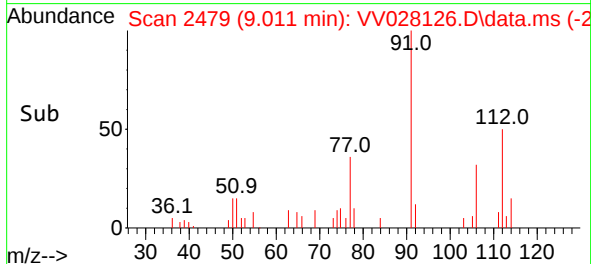
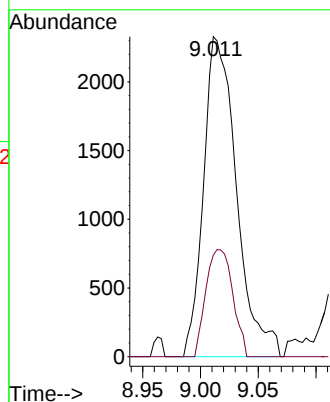
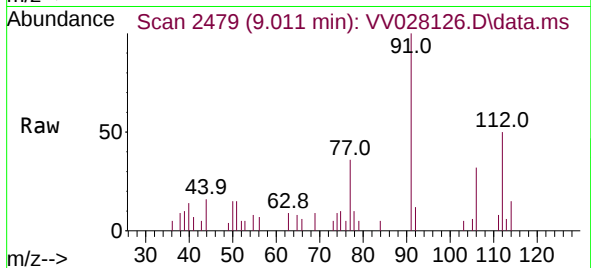
ClientSampleId :

Tgt Ion: 91 Resp: 4621

Ion Ratio Lower Upper

91 100

106 31.7 21.5 39.9



#53

m,p-Xylene

Concen: 0.284 ug/L

RT: 9.136 min Scan# 2518

Delta R.T. 0.003 min

Lab File: VV028126.D

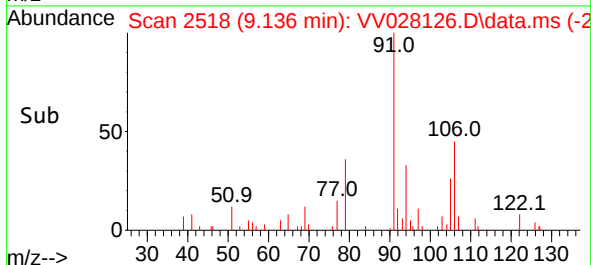
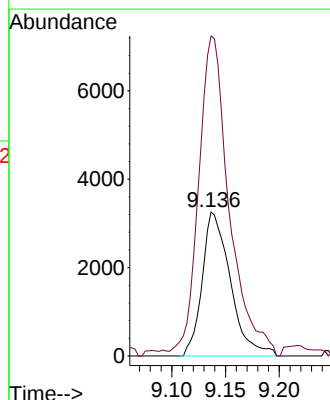
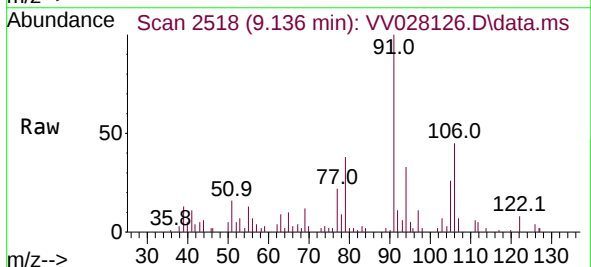
Acq: 26 Sep 2022 19:09

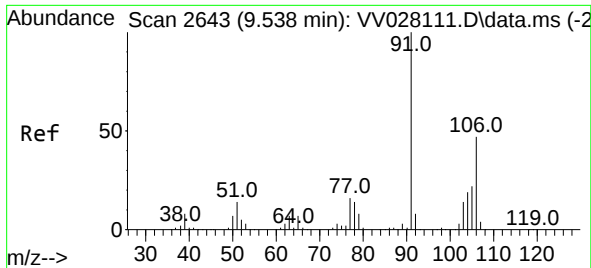
Tgt Ion: 106 Resp: 5931

Ion Ratio Lower Upper

106 100

91 222.3 141.9 263.5

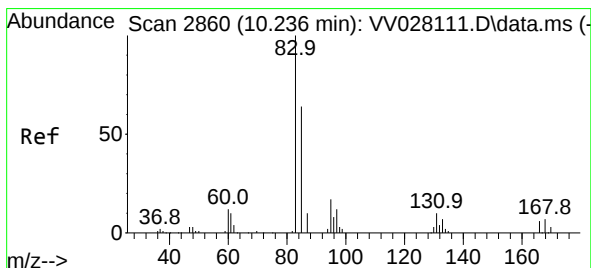
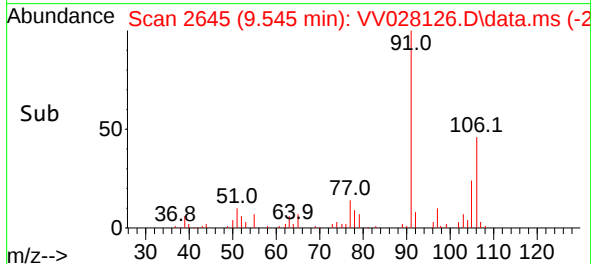
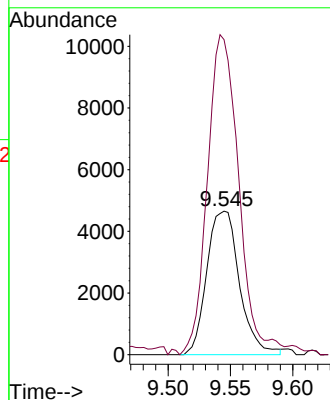
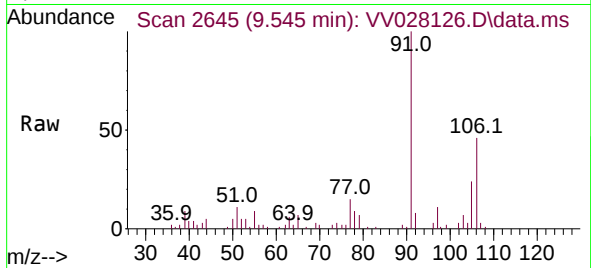




#54
o-Xylene
Concen: 0.412 ug/L
RT: 9.545 min Scan# 20
Delta R.T. 0.006 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

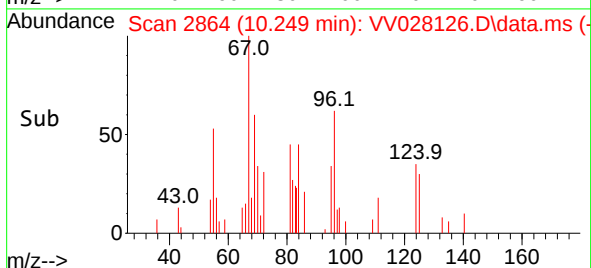
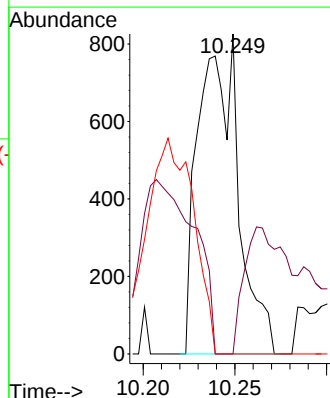
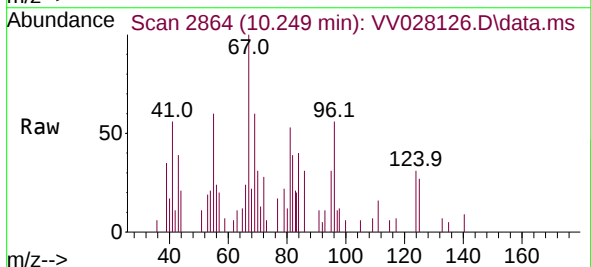
Instrument :
MSVOA_V
ClientSampleId :

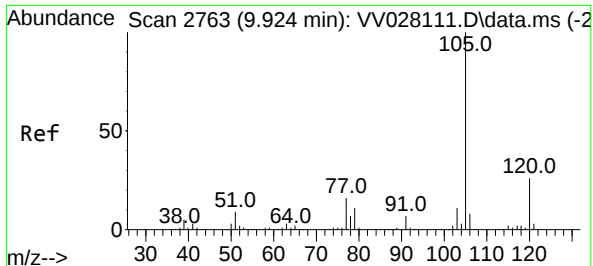
Tgt Ion:106 Resp: 8502
Ion Ratio Lower Upper
106 100
91 219.4 148.1 275.0



#57
1,1,2,2-Tetrachloroethane
Concen: 0.114 ug/L
RT: 10.249 min Scan# 2864
Delta R.T. 0.013 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

Tgt Ion: 83 Resp: 1238
Ion Ratio Lower Upper
83 100
85 0.0 45.2 84.0#
131 0.0 7.8 11.8#

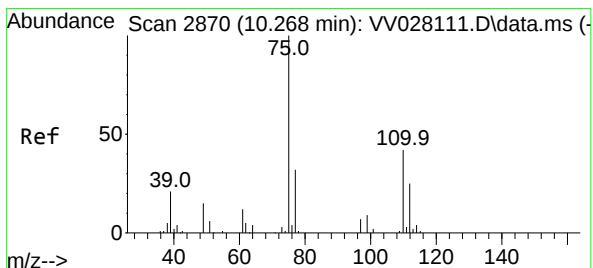
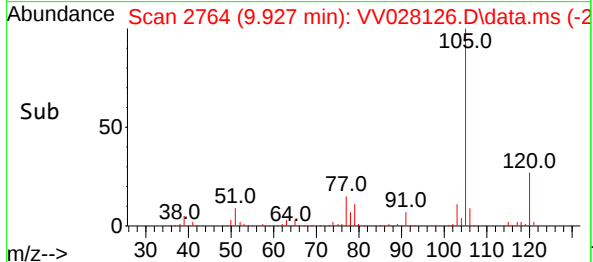
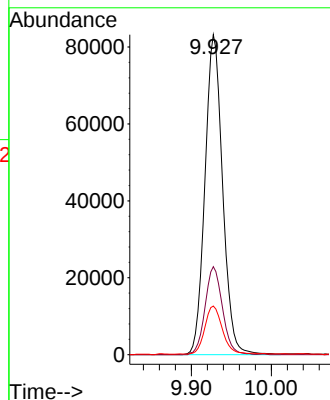
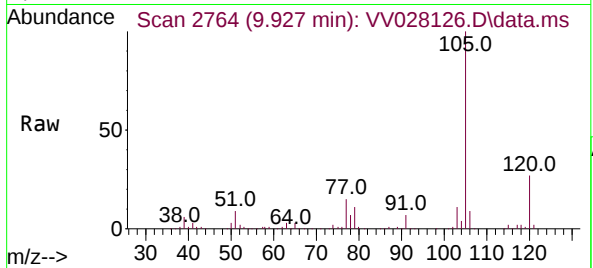




#60
Isopropylbenzene
Concen: 2.267 ug/L
RT: 9.927 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

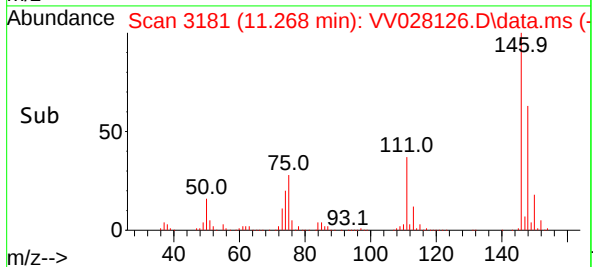
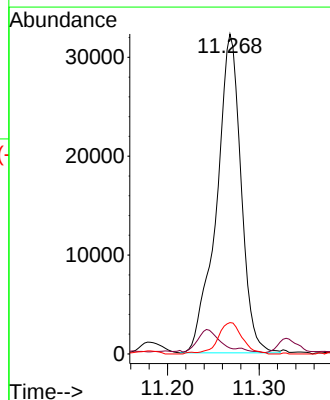
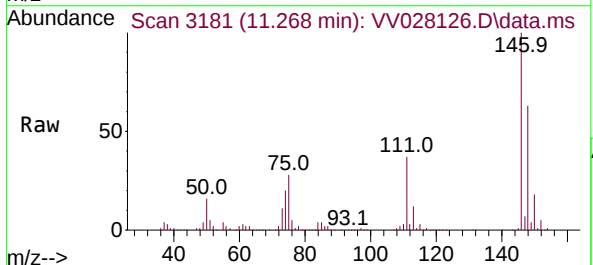
Instrument :
MSVOA_V
ClientSampleId :

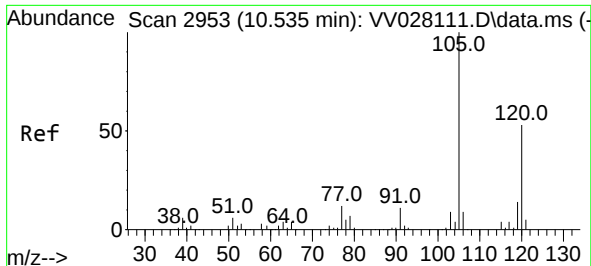
Tgt Ion:105 Resp: 128073
Ion Ratio Lower Upper
105 100
120 27.1 21.4 32.0
77 0.0 12.2 18.4#



#61
1,2,3-Trichloropropane
Concen: 7.433 ug/L
RT: 11.268 min Scan# 3181
Delta R.T. 1.000 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

Tgt Ion: 75 Resp: 60013
Ion Ratio Lower Upper
75 100
77 0.0 26.7 40.1#
110 9.6 30.1 45.1#





#62

1,3,5-Trimethylbenzene

Concen: 1.685 ug/L

RT: 10.734 min Scan# 3015

Delta R.T. 0.199 min

Lab File: VV028126.D

Acq: 26 Sep 2022 19:09

Instrument :

MSVOA_V

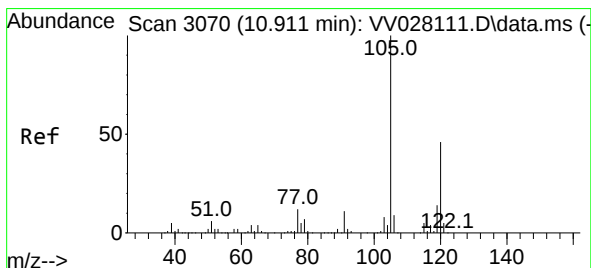
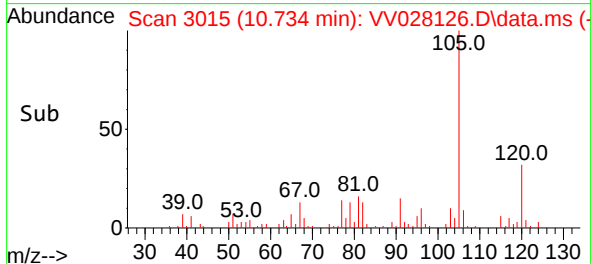
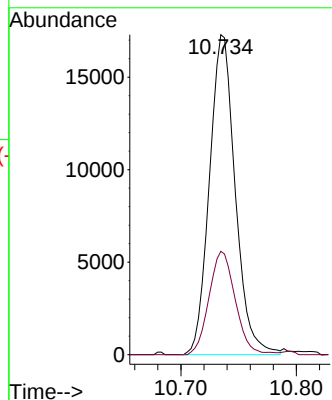
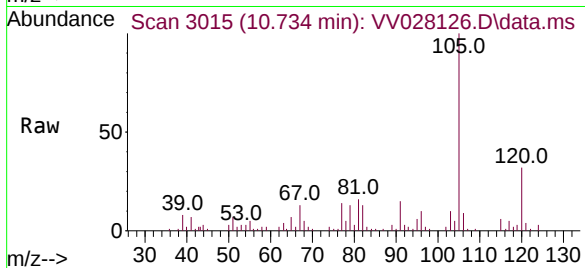
ClientSampleId :

Tgt Ion:105 Resp: 26819

Ion Ratio Lower Upper

105 100

120 32.9 40.6 61.0#



#63

1,2,4-Trimethylbenzene

Concen: 0.359 ug/L

RT: 11.333 min Scan# 3201

Delta R.T. 0.421 min

Lab File: VV028126.D

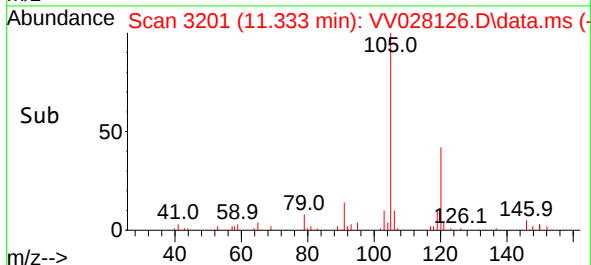
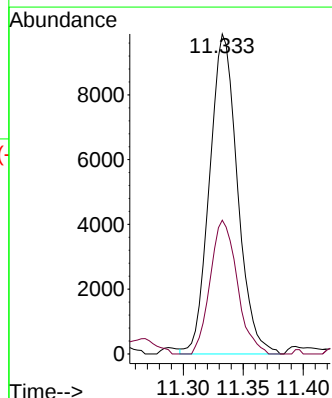
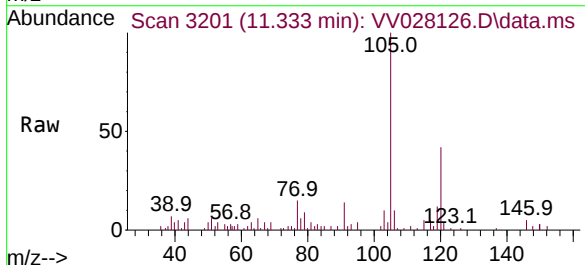
Acq: 26 Sep 2022 19:09

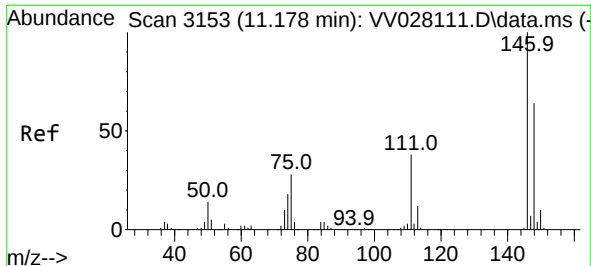
Tgt Ion:105 Resp: 15990

Ion Ratio Lower Upper

105 100

120 40.3 37.8 56.8

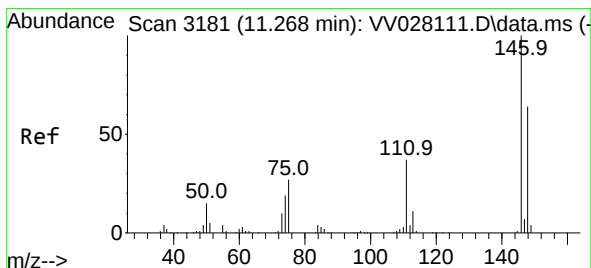
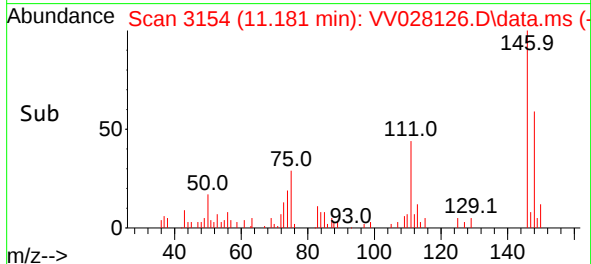
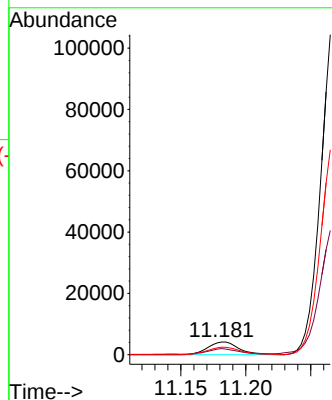
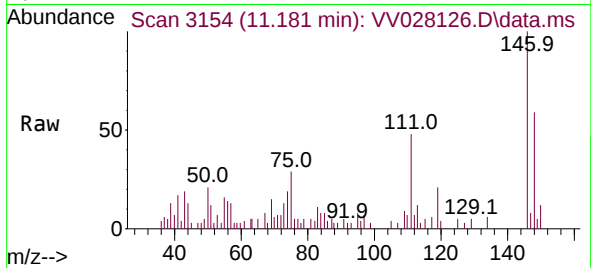




#64
1,3-Dichlorobenzene
Concen: 0.245 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. 0.003 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

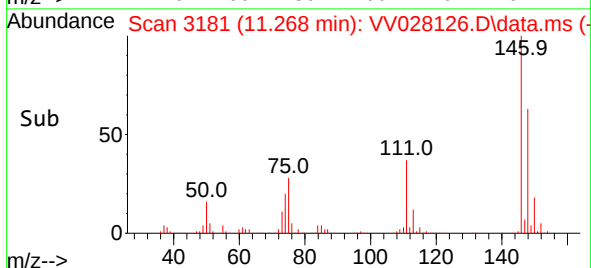
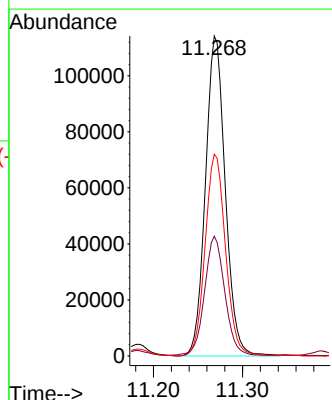
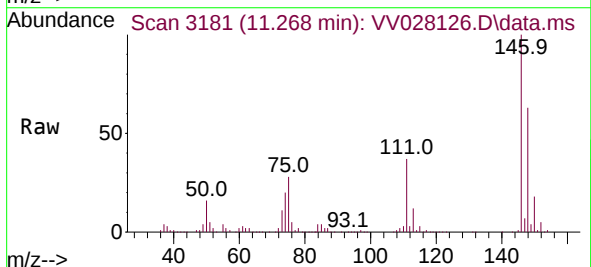
Instrument :
MSVOA_V
ClientSampleId :

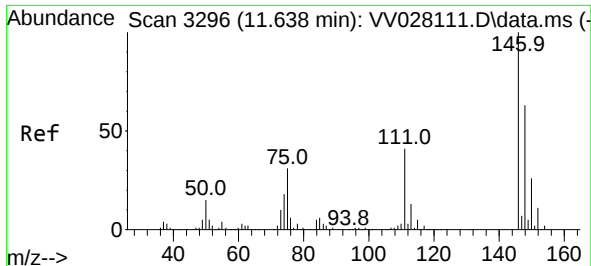
Tgt Ion:146 Resp: 6876
Ion Ratio Lower Upper
146 100
111 47.7 27.1 50.3
148 58.9 45.7 84.9



#65
1,4-Dichlorobenzene
Concen: 6.270 ug/L
RT: 11.268 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

Tgt Ion:146 Resp: 176375
Ion Ratio Lower Upper
146 100
111 37.4 26.2 48.8
148 63.1 45.8 85.2

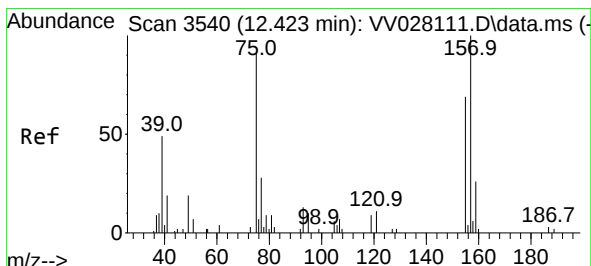
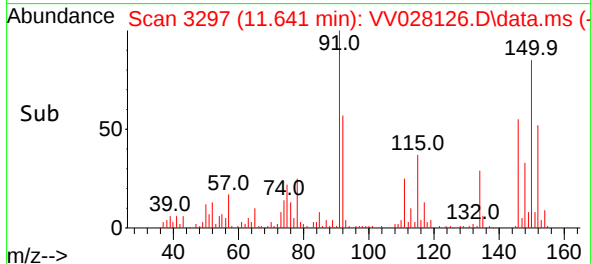
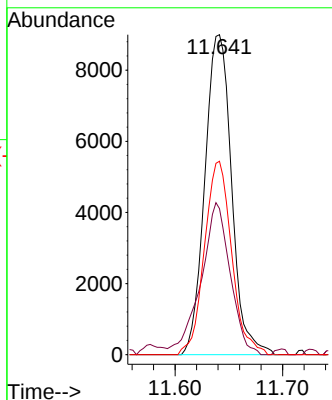
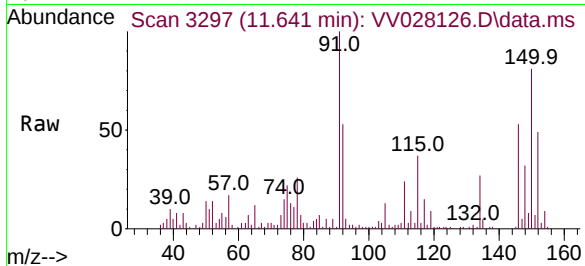




#67
1,2-Dichlorobenzene
Concen: 0.586 ug/L
RT: 11.641 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

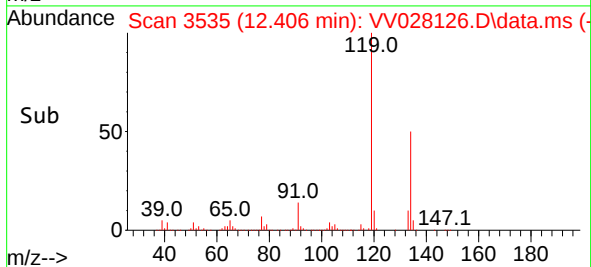
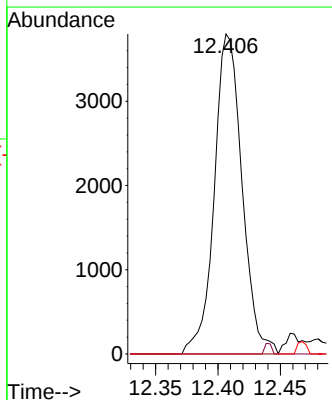
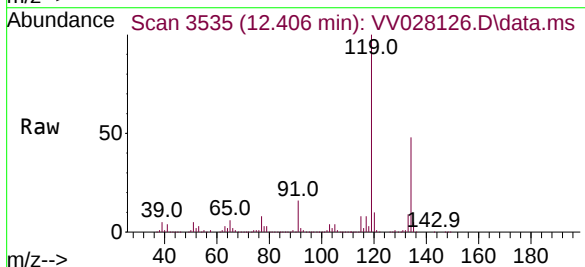
Instrument :
MSVOA_V
ClientSampleId :

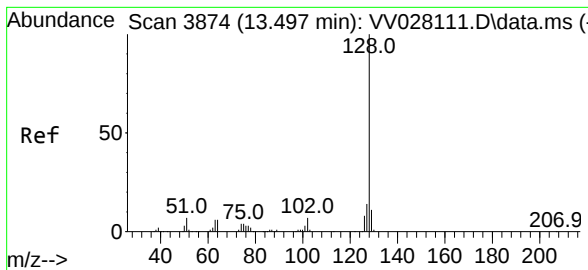
Tgt Ion:146 Resp: 15565
Ion Ratio Lower Upper
146 100
111 45.7 32.6 49.0
148 60.4 50.1 75.1



#68
1,2-Dibromo-3-chloropropane
Concen: 3.326 ug/L
RT: 12.406 min Scan# 3535
Delta R.T. -0.016 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

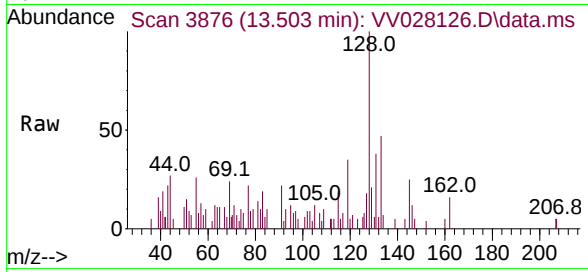
Tgt Ion: 75 Resp: 5886
Ion Ratio Lower Upper
75 100
155 0.0 73.6 110.4#
157 0.0 90.7 136.1#





#71
Naphthalene
Concen: 0.172 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.006 min
Lab File: VV028126.D
Acq: 26 Sep 2022 19:09

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:	128	Resp:	5015
Ion Ratio	Lower	Upper	
128	100		
129	0.0	8.2	12.2#
127	9.7	10.4	15.6#

