

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW081721\
 Data File : VW021815.D
 Acq On : 17 Aug 2021 15:20
 Operator : SY/MD
 Sample : M3395-13
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 18 02:09:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM081621WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 18 02:05:23 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	436955	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	405925	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	212290	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	126487	37.028	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.060%
7) Chloroethane-d5	1.545	69	99725	38.686	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.380%
11) 1,1-Dichloroethene-d2	2.098	63	193234	35.537	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.080%
21) 2-Butanone-d5	3.870	46	212504	100.025	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.020%
24) Chloroform-d	4.342	84	251450	42.487	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.980%
26) 1,2-Dichloroethane-d4	5.027	65	157855	46.370	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.740%
32) Benzene-d6	5.043	84	514533	44.079	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.160%
36) 1,2-Dichloropropane-d6	6.066	67	171040	47.053	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.100%
41) Toluene-d8	7.313	98	461596	42.783	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.560%
43) trans-1,3-Dichloroprop...	7.619	79	80130	44.791	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.580%
47) 2-Hexanone-d5	8.085	63	128007	107.443	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.440%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	231340	51.356	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.720%
66) 1,2-Dichlorobenzene-d4	11.625	152	206238	46.943	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.880%
Target Compounds						
5) Vinyl chloride	1.307	62	246074	71.182	ug/L	99
8) Chloroethane	1.564	64	237347	114.895	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	149963	55.300	ug/L	98
12) 1,1-Dichloroethene	2.108	96	100774	39.015	ug/L	99
16) Methylene chloride	2.500	84	5773	1.607	ug/L	88
17) trans-1,2-Dichloroethene	2.751	96	275565	90.917	ug/L	99
25) Chloroform	4.368	83	7067	1.217	ug/L	83
27) 1,2-Dichloroethane	5.127	62	120730	29.516	ug/L	99
29) Cyclohexane	4.670	56	275623	55.132	ug/L	100
30) 1,1,1-Trichloroethane	4.603	97	235954	46.453	ug/L	100
31) Carbon tetrachloride	4.822	117	122055	27.771	ug/L	99
33) Benzene	5.095	78	486394	38.938	ug/L	100
34) Trichloroethene	5.912	95	61818	17.221	ug/L	97
38) Bromodichloromethane	6.506	83	321321	77.077	ug/L	98
40) 4-Methyl-2-pentanone	7.223	43	432578	99.422	ug/L	99
44) trans-1,3-Dichloropropene	7.844	75	5291	1.121	ug/L	96
46) Tetrachloroethene	7.976	164	231223	86.673	ug/L	99
48) 2-Hexanone	8.088	43	13529	4.014	ug/L	# 69
51) Chlorobenzene	8.879	112	598276	68.682	ug/L	99

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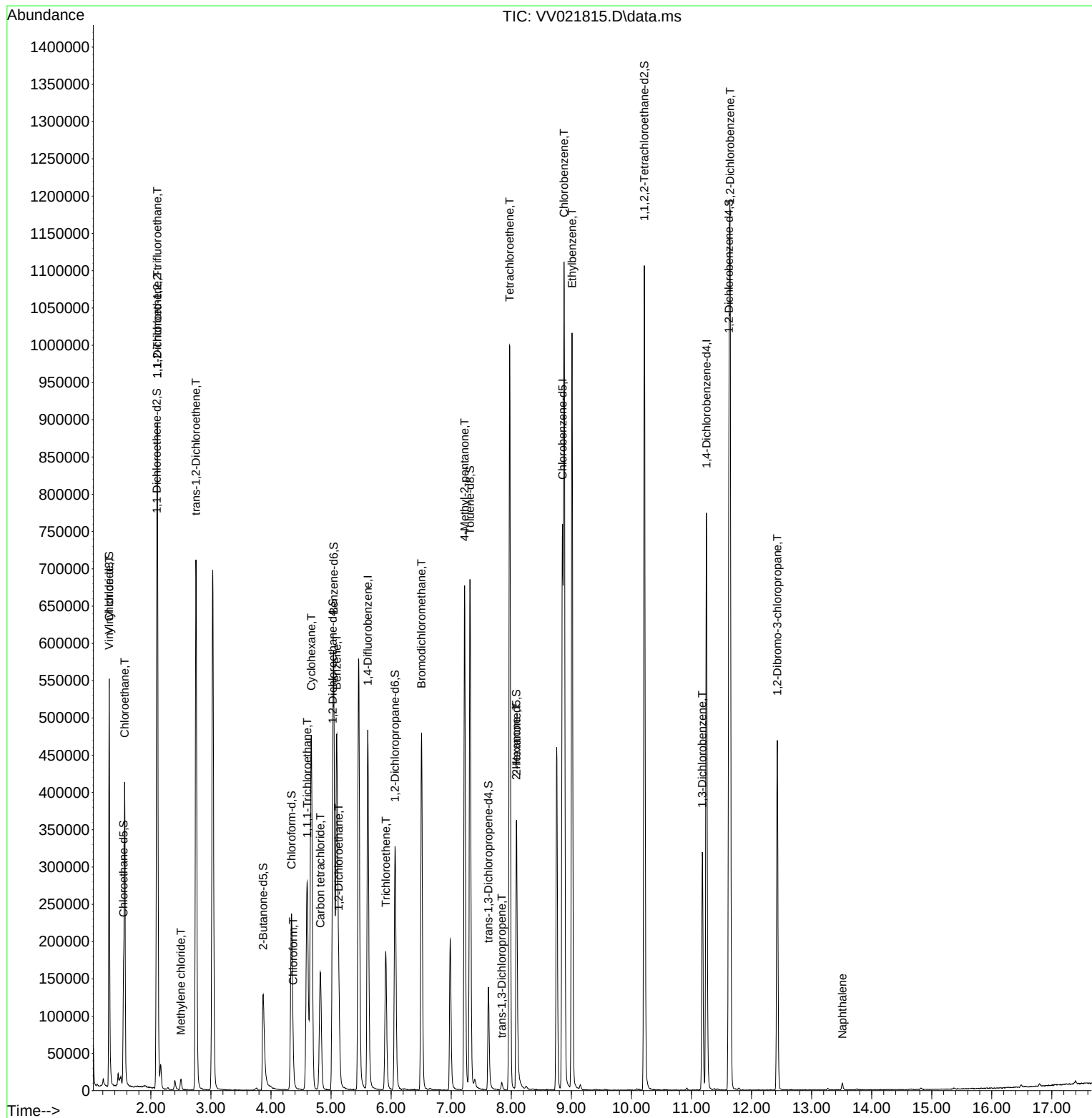
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.011	91	717505	50.410	ug/L	98
64) 1,3-Dichlorobenzene	11.181	146	132499	19.224	ug/L	100
67) 1,2-Dichlorobenzene	11.644	146	419282	60.303	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.429	75	105641	110.753	ug/L	96
71) Naphthalene	13.513	128	7889	0.648	ug/L #	92

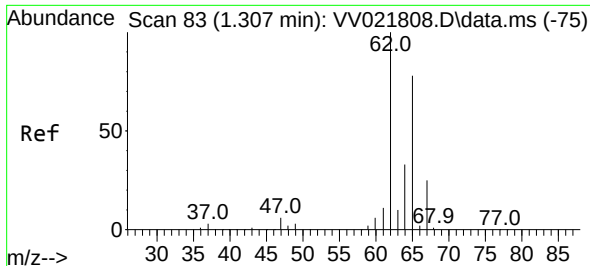
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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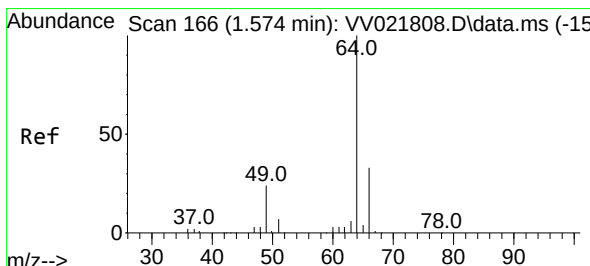
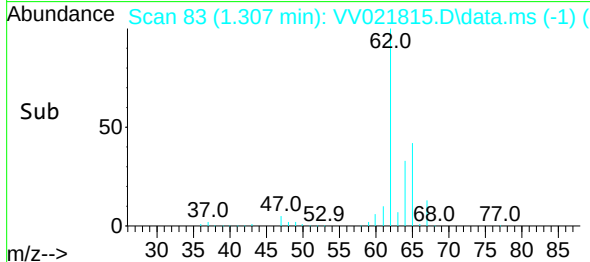
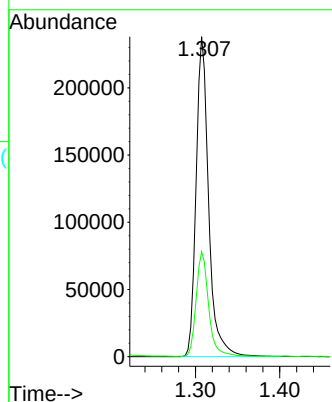
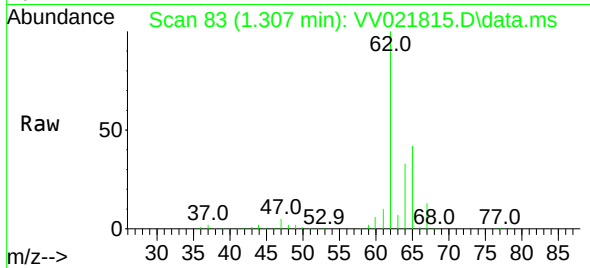




#5
 Vinyl chloride
 Concen: 71.182 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VV021815.D
 Acq: 17 Aug 2021 15:20

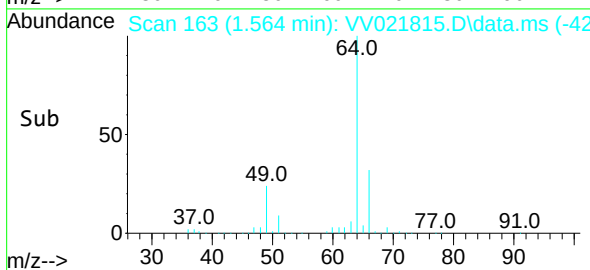
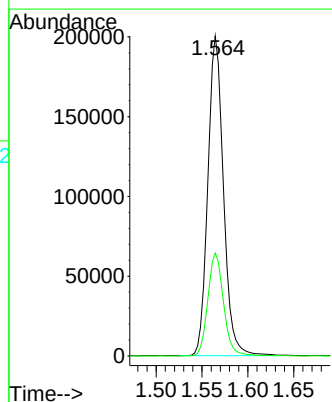
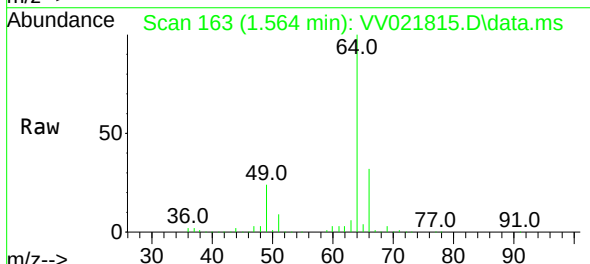
Instrument :
 MSVOA_V
 ClientSampled :

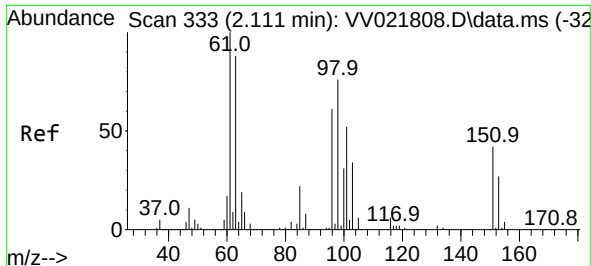
Tgt Ion: 62 Resp: 246074
 Ion Ratio Lower Upper
 62 100
 64 32.8 23.4 43.4



#8
 Chloroethane
 Concen: 114.895 ug/L
 RT: 1.564 min Scan# 163
 Delta R.T. -0.010 min
 Lab File: VV021815.D
 Acq: 17 Aug 2021 15:20

Tgt Ion: 64 Resp: 237347
 Ion Ratio Lower Upper
 64 100
 66 32.1 22.6 42.0

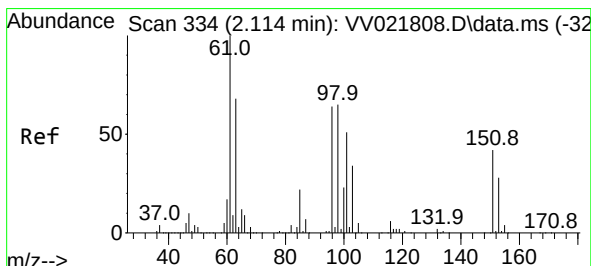
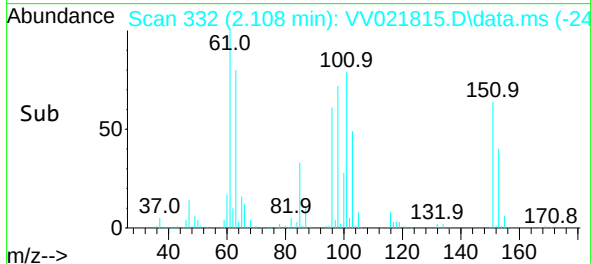
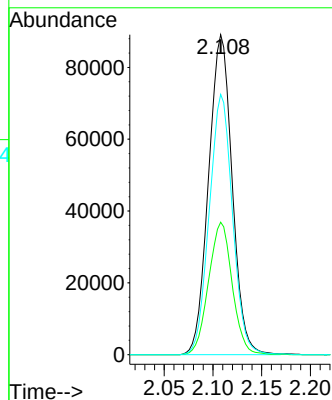
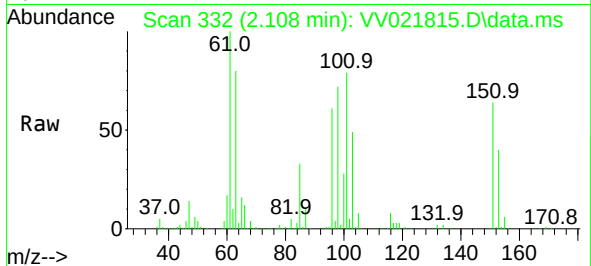




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 55.300 ug/L
 RT: 2.108 min Scan# 332
 Delta R.T. -0.003 min
 Lab File: VV021815.D
 Acq: 17 Aug 2021 15:20

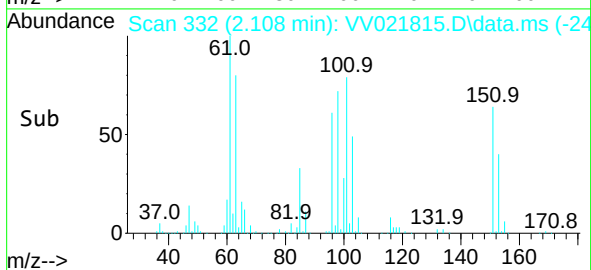
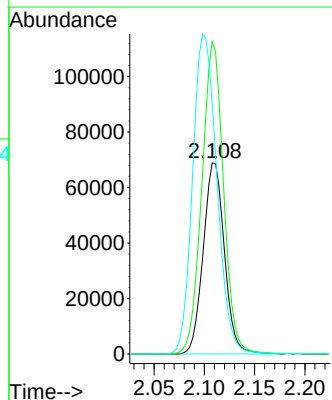
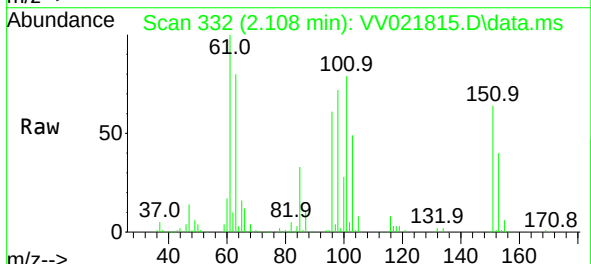
Instrument :
 MSVOA_V
 ClientSampleId :

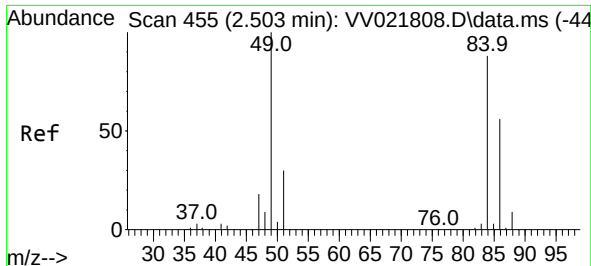
Tgt Ion:101 Resp: 149963
 Ion Ratio Lower Upper
 101 100
 85 41.4 33.4 50.2
 151 80.4 62.2 93.2



#12
 1,1-Dichloroethene
 Concen: 39.015 ug/L
 RT: 2.108 min Scan# 332
 Delta R.T. -0.007 min
 Lab File: VV021815.D
 Acq: 17 Aug 2021 15:20

Tgt Ion: 96 Resp: 100774
 Ion Ratio Lower Upper
 96 100
 61 163.4 115.5 214.5
 63 131.2 90.3 167.7

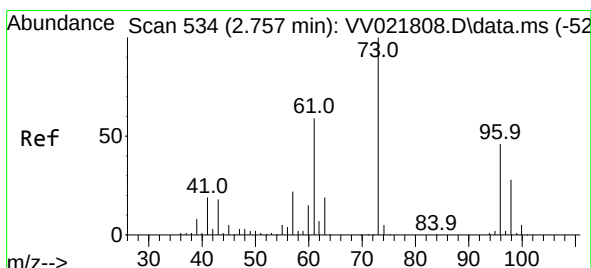
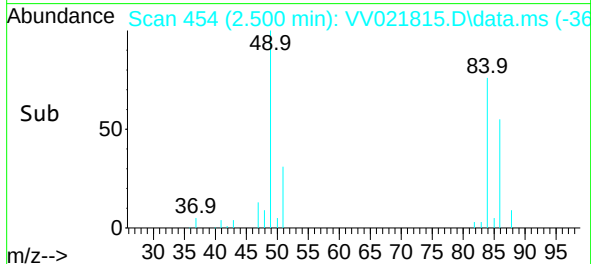
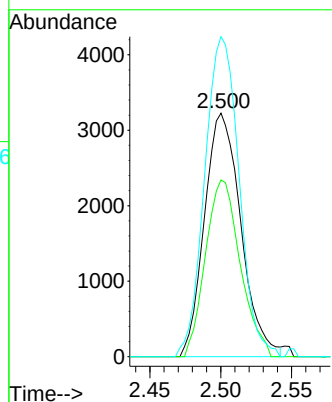
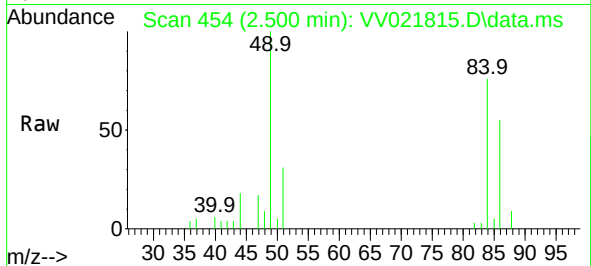




#16
Methylene chloride
Concen: 1.607 ug/L
RT: 2.500 min Scan# 454
Delta R.T. -0.003 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

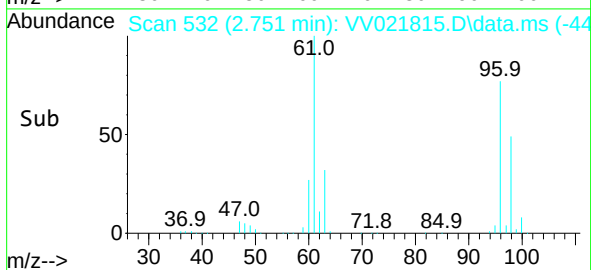
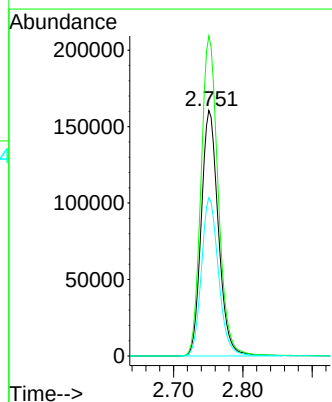
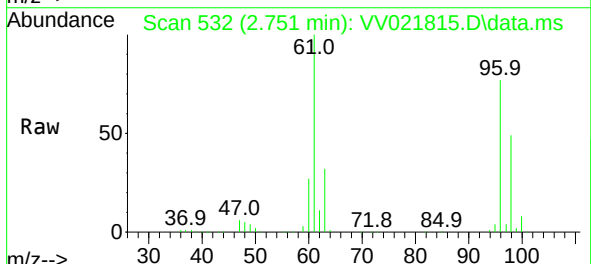
Instrument :
MSVOA_V
ClientSampleId :

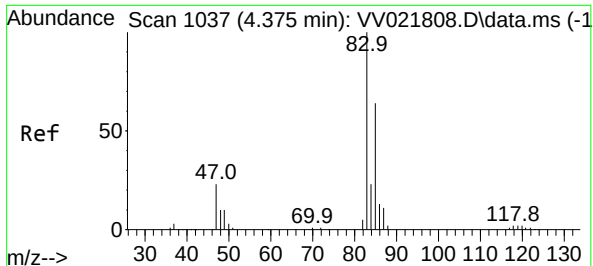
Tgt Ion: 84 Resp: 5773
Ion Ratio Lower Upper
84 100
86 72.6 44.7 83.1
49 131.4 82.5 153.3



#17
trans-1,2-Dichloroethene
Concen: 90.917 ug/L
RT: 2.751 min Scan# 532
Delta R.T. -0.007 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Tgt Ion: 96 Resp: 275565
Ion Ratio Lower Upper
96 100
61 130.3 90.4 168.0
98 64.4 44.4 82.5



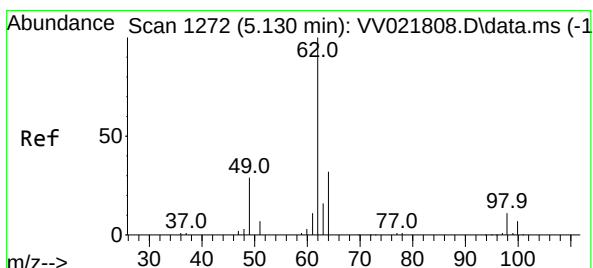
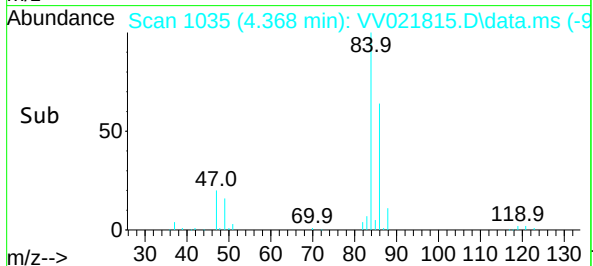
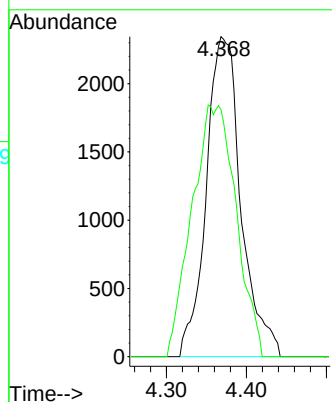
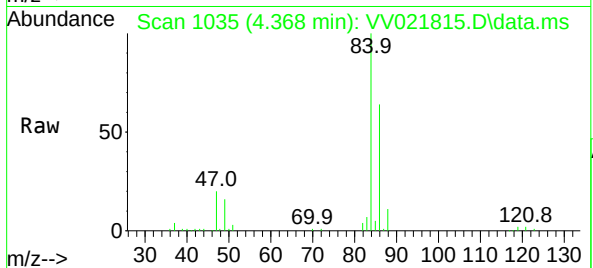


#25

Chloroform
Concen: 1.217 ug/L
RT: 4.368 min Scan# 1035
Delta R.T. -0.007 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Instrument :
MSVOA_V
ClientSampled :

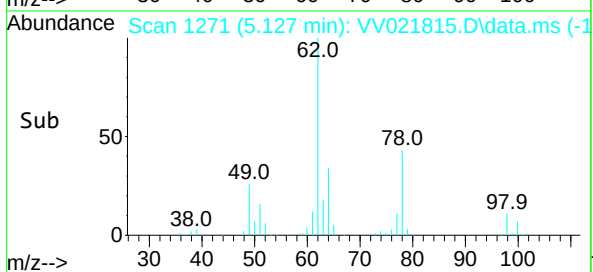
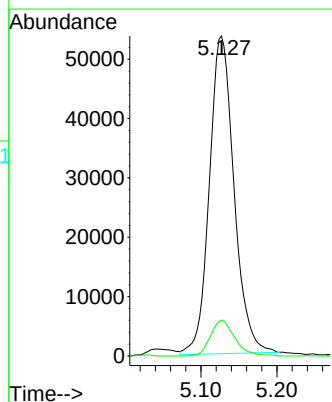
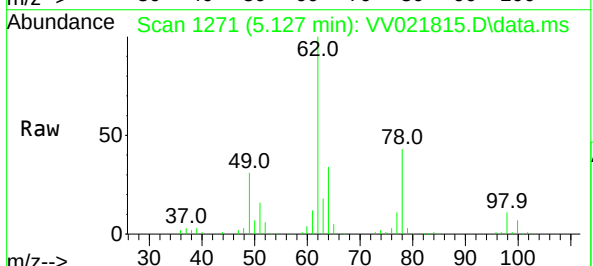
Tgt Ion: 83 Resp: 7067
Ion Ratio Lower Upper
83 100
85 77.1 44.8 83.2

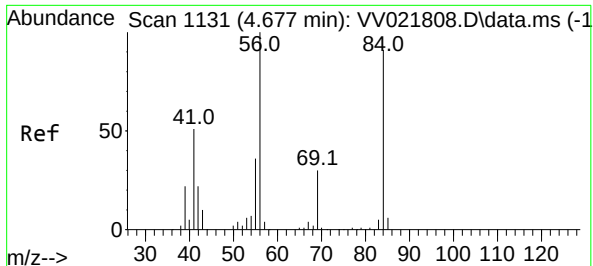


#27

1,2-Dichloroethane
Concen: 29.516 ug/L
RT: 5.127 min Scan# 1271
Delta R.T. -0.003 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Tgt Ion: 62 Resp: 120730
Ion Ratio Lower Upper
62 100
98 11.2 8.6 13.0





#29

Cyclohexane

Concen: 55.132 ug/L

RT: 4.670 min Scan# 1129

Delta R.T. -0.007 min

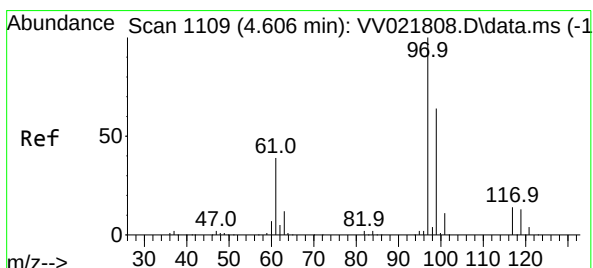
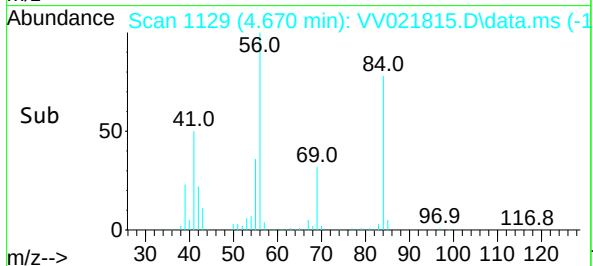
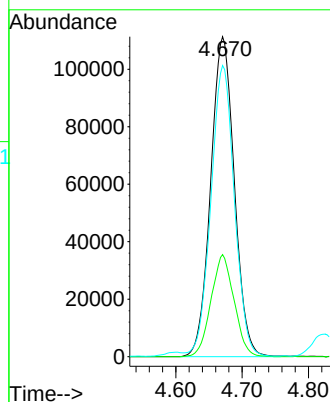
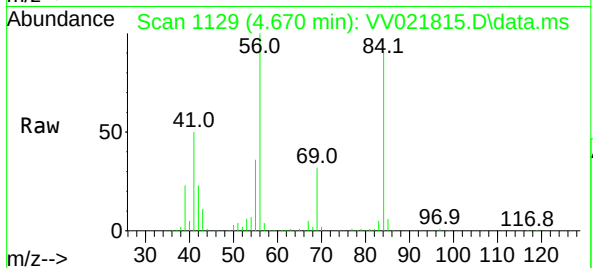
Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

Tgt Ion: 56 Resp: 275623

Ion	Ratio	Lower	Upper
56	100		
69	31.1	24.9	37.3
84	90.4	72.6	109.0

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#30

1,1,1-Trichloroethane

Concen: 46.453 ug/L

RT: 4.603 min Scan# 1108

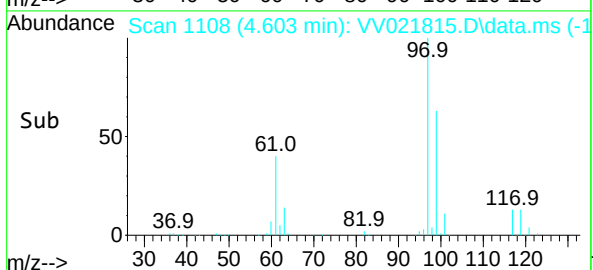
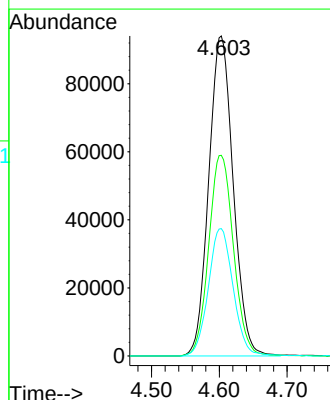
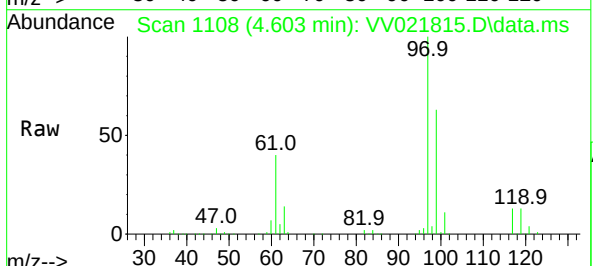
Delta R.T. -0.003 min

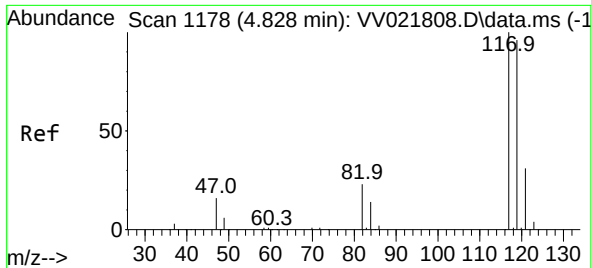
Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

Tgt Ion: 97 Resp: 235954

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.4
61	40.2	32.3	48.5

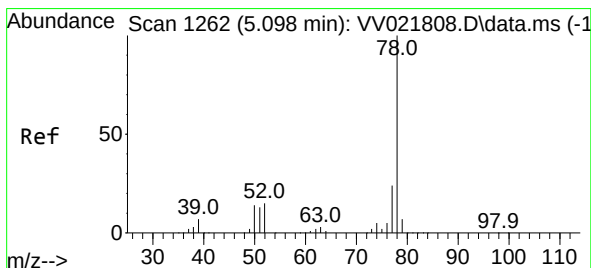
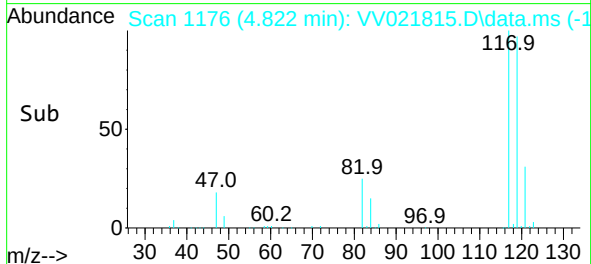
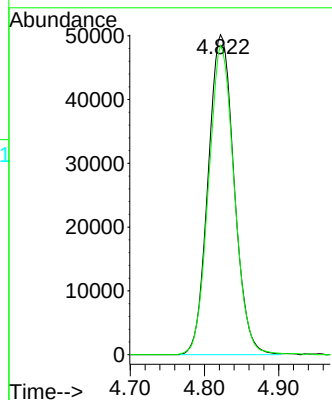
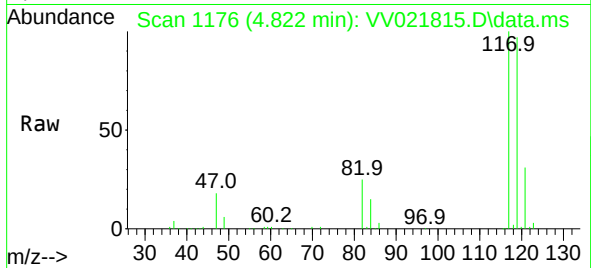




#31
Carbon tetrachloride
Concen: 27.771 ug/L
RT: 4.822 min Scan# 1176
Delta R.T. -0.007 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

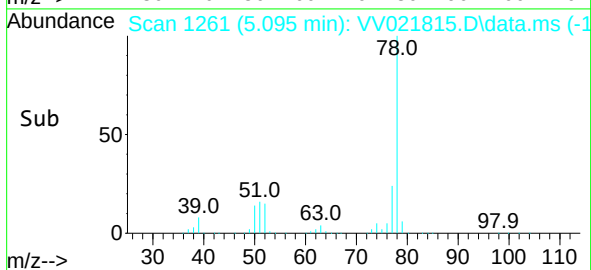
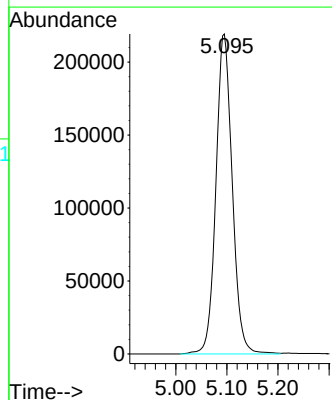
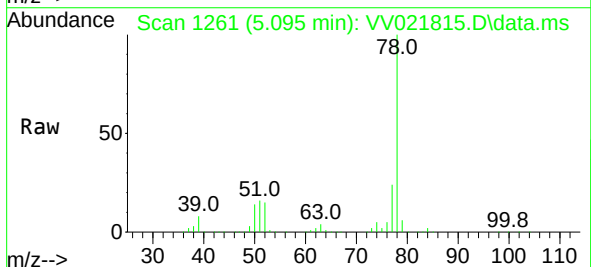
Instrument :
MSVOA_V
ClientSampled :

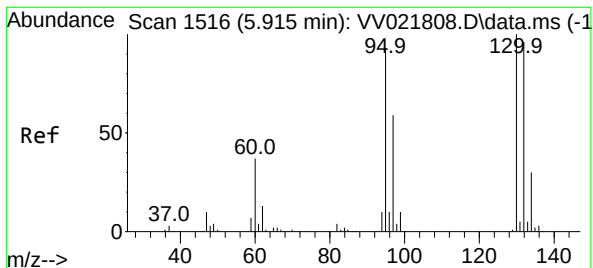
Tgt Ion:117 Resp: 122055
Ion Ratio Lower Upper
117 100
119 95.5 77.1 115.7



#33
Benzene
Concen: 38.938 ug/L
RT: 5.095 min Scan# 1261
Delta R.T. -0.003 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Tgt Ion: 78 Resp: 486394





#34

Trichloroethene

Concen: 17.221 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. -0.003 min

Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

Tgt Ion: 95 Resp: 61818

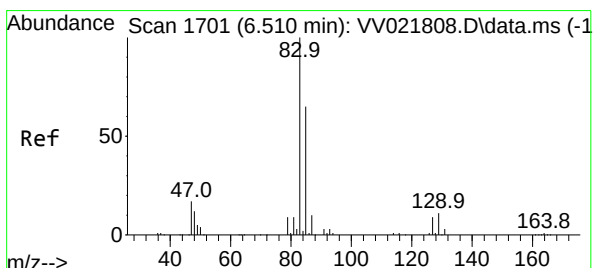
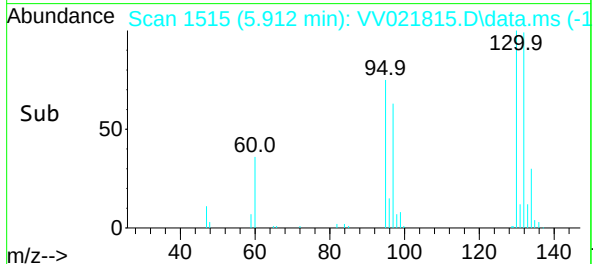
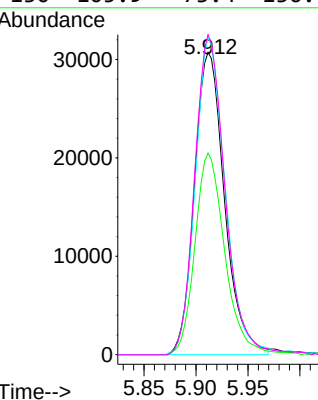
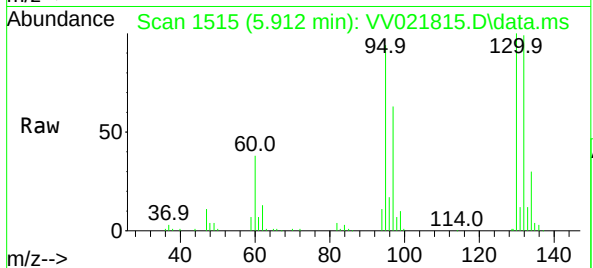
Ion Ratio Lower Upper

95 100

97 66.7 44.1 81.9

132 104.8 70.2 130.4

130 105.9 73.4 136.4



#38

Bromodichloromethane

Concen: 77.077 ug/L

RT: 6.506 min Scan# 1700

Delta R.T. -0.003 min

Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

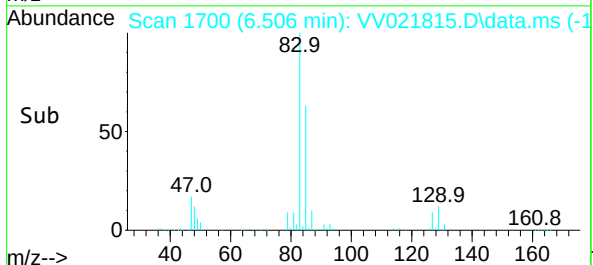
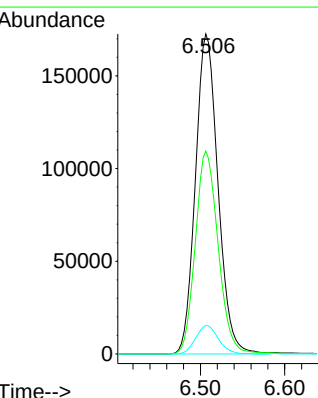
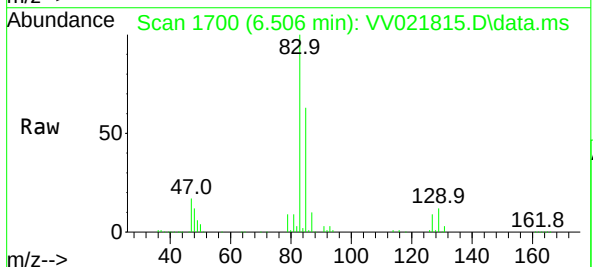
Tgt Ion: 83 Resp: 321321

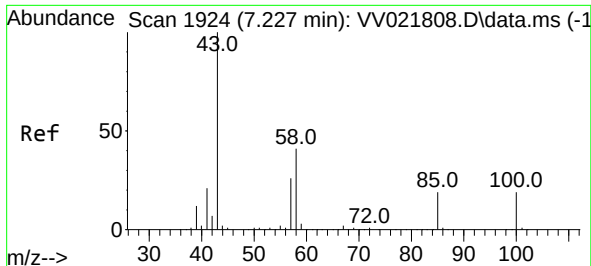
Ion Ratio Lower Upper

83 100

85 63.4 45.7 84.9

127 8.9 7.4 11.2





#40

4-Methyl-2-pentanone

Concen: 99.422 ug/L

RT: 7.223 min Scan# 1923

Delta R.T. -0.003 min

Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

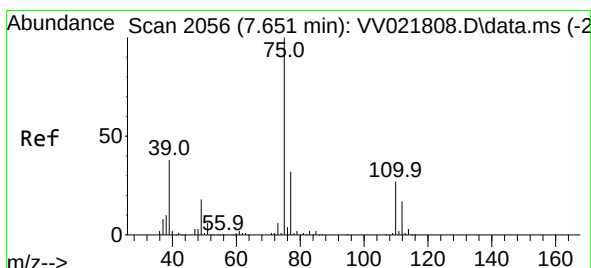
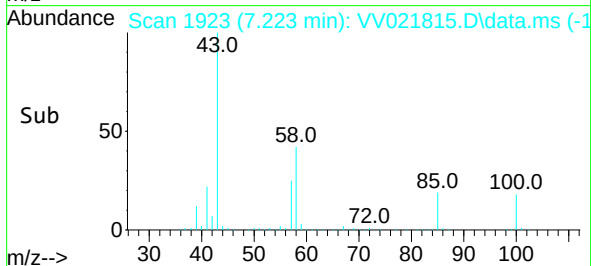
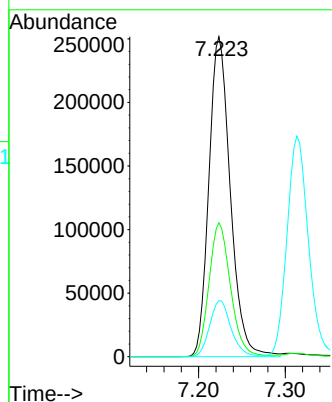
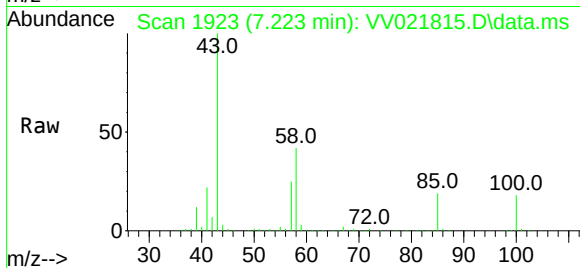
Tgt Ion: 43 Resp: 432578

Ion Ratio Lower Upper

43 100

58 41.8 32.9 49.3

100 17.5 14.0 21.0



#44

trans-1,3-Dichloropropene

Concen: 1.121 ug/L

RT: 7.844 min Scan# 2116

Delta R.T. 0.193 min

Lab File: VV021815.D

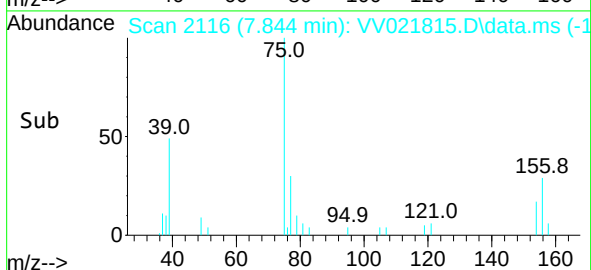
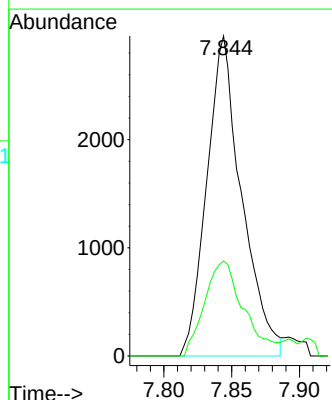
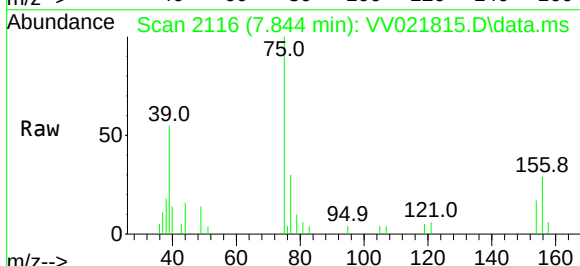
Acq: 17 Aug 2021 15:20

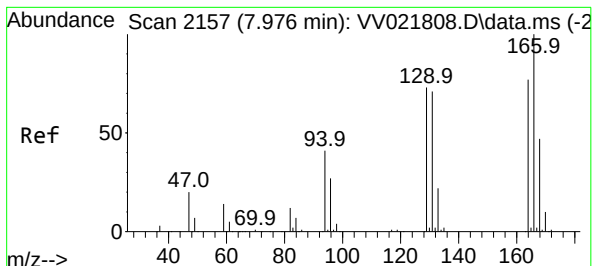
Tgt Ion: 75 Resp: 5291

Ion Ratio Lower Upper

75 100

77 29.7 22.2 41.2



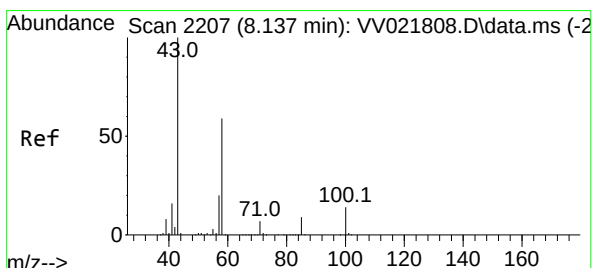
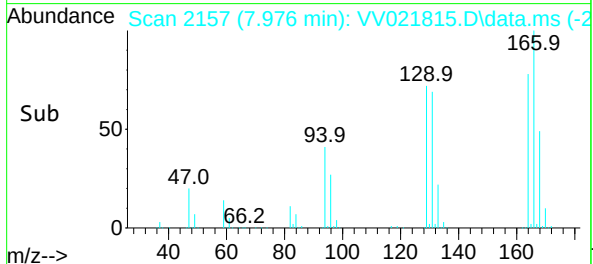
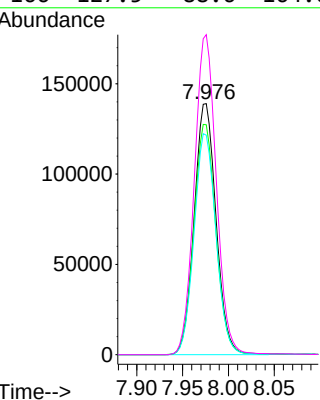
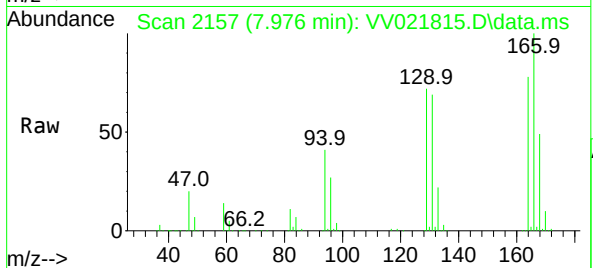


#46
Tetrachloroethene
Concen: 86.673 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.000 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:164 Resp: 231223

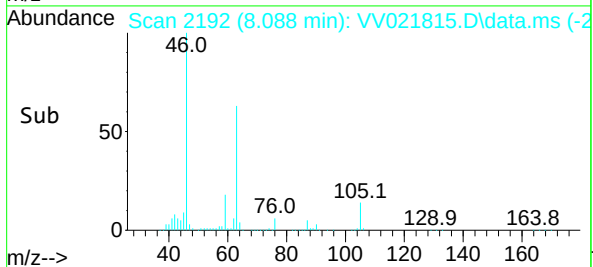
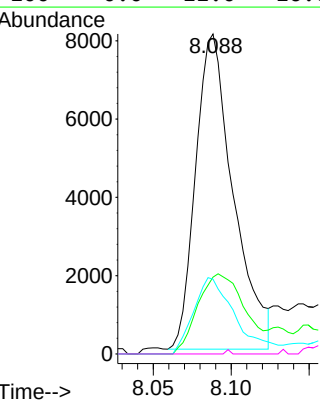
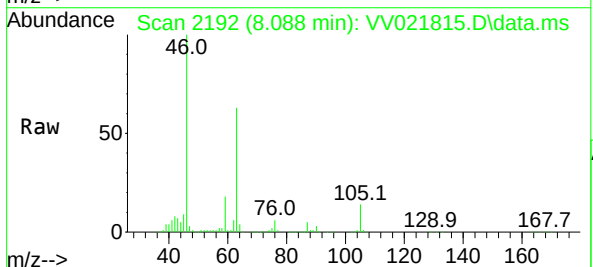
Ion	Ratio	Lower	Upper
164	100		
129	91.6	63.7	118.3
131	87.5	61.5	114.3
166	127.5	88.6	164.6

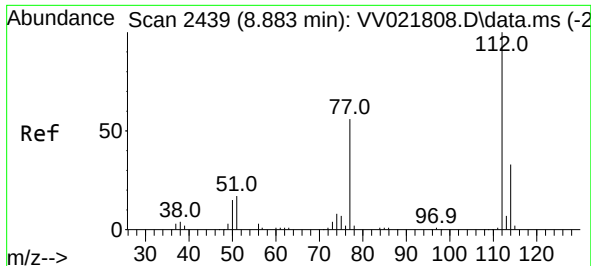


#48
2-Hexanone
Concen: 4.014 ug/L
RT: 8.088 min Scan# 2192
Delta R.T. -0.048 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Tgt Ion: 43 Resp: 13529

Ion	Ratio	Lower	Upper
43	100		
58	31.4	45.4	68.2#
57	27.1	15.3	22.9#
100	0.0	11.0	16.6#

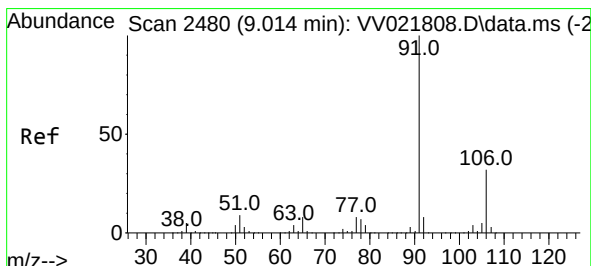
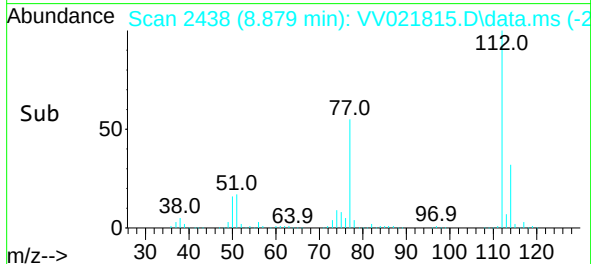
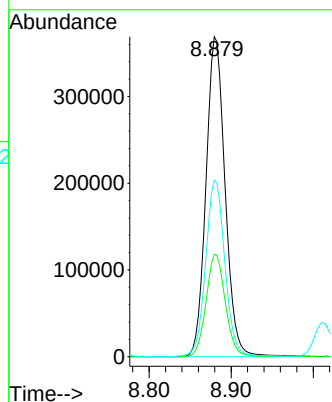
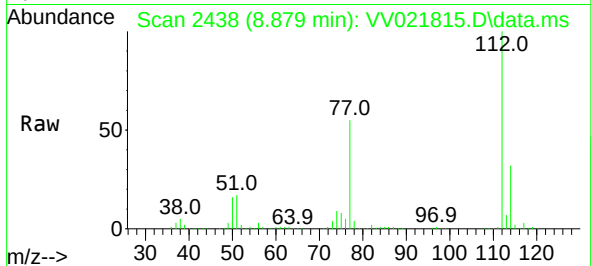




#51
Chlorobenzene
Concen: 68.682 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. -0.003 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

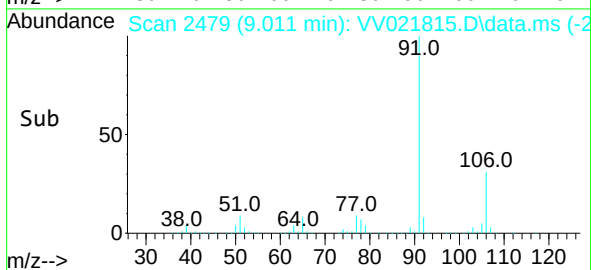
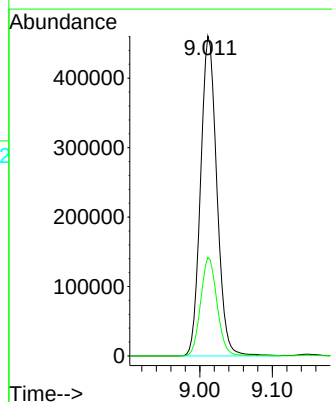
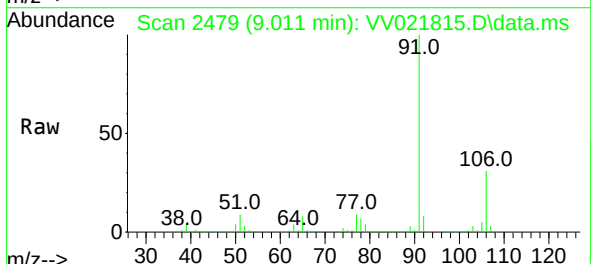
Instrument :
MSVOA_V
ClientSampled :

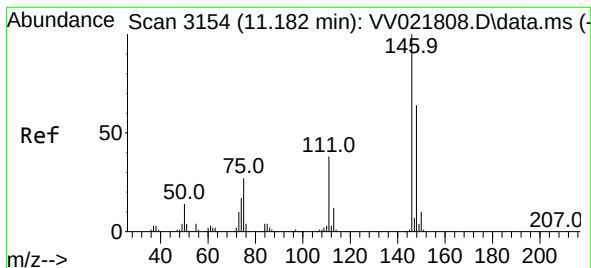
Tgt Ion:112 Resp: 598276
Ion Ratio Lower Upper
112 100
114 32.0 22.2 41.2
77 55.2 43.7 65.5



#52
Ethylbenzene
Concen: 50.410 ug/L
RT: 9.011 min Scan# 2479
Delta R.T. -0.003 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Tgt Ion: 91 Resp: 717505
Ion Ratio Lower Upper
91 100
106 30.8 22.2 41.2





#64

1,3-Dichlorobenzene

Concen: 19.224 ug/L

RT: 11.181 min Scan# 3154

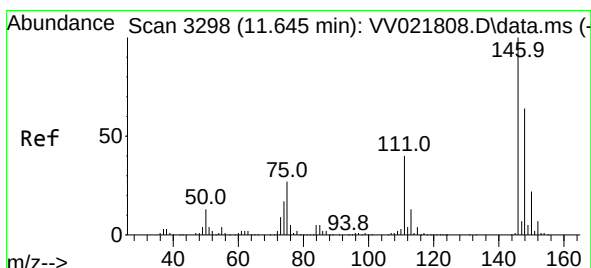
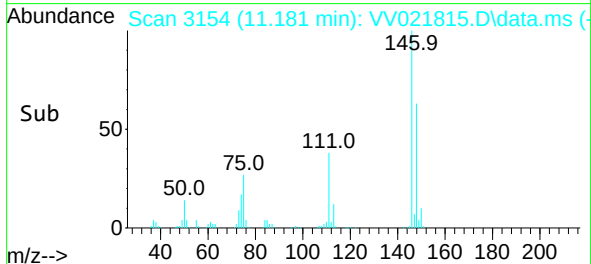
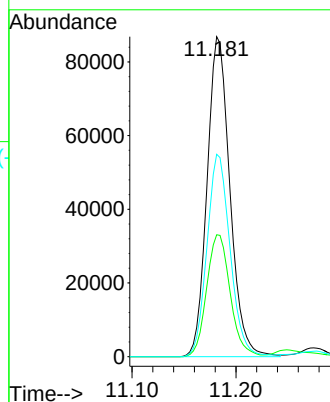
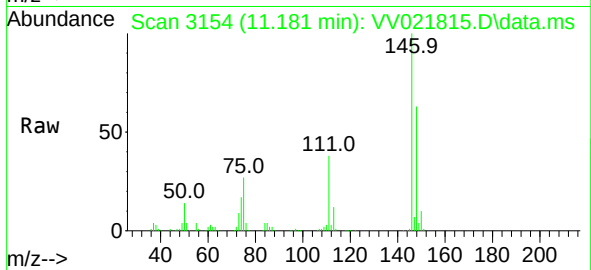
Delta R.T. -0.000 min

Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:	146	Resp:	132499
Ion Ratio	Lower	Upper	
146	100		
111	38.1	26.5	49.1
148	63.3	44.3	82.3



#67

1,2-Dichlorobenzene

Concen: 60.303 ug/L

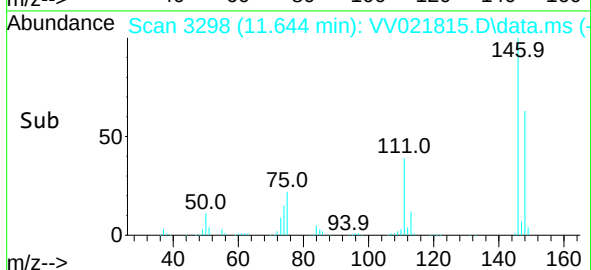
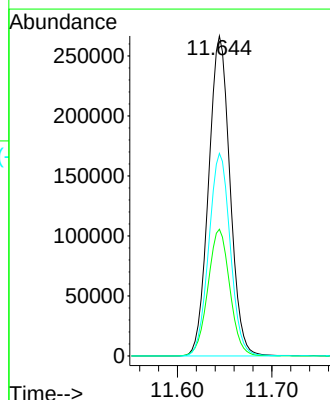
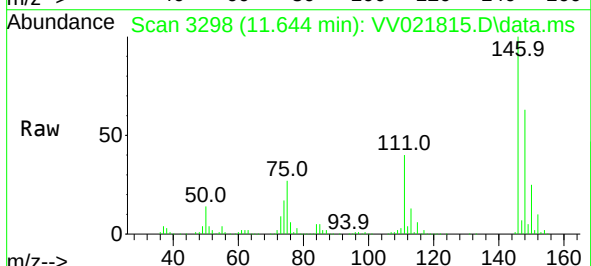
RT: 11.644 min Scan# 3298

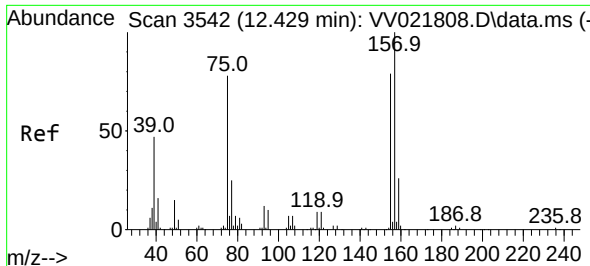
Delta R.T. -0.000 min

Lab File: VV021815.D

Acq: 17 Aug 2021 15:20

Tgt Ion:	146	Resp:	419282
Ion Ratio	Lower	Upper	
146	100		
111	39.6	31.8	47.8
148	63.3	51.0	76.6

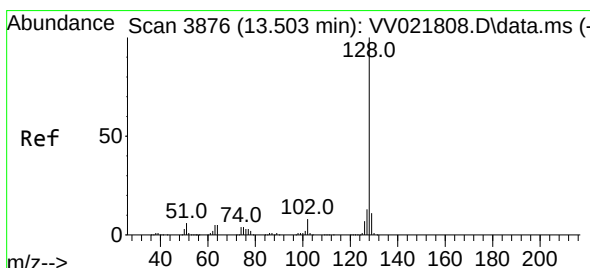
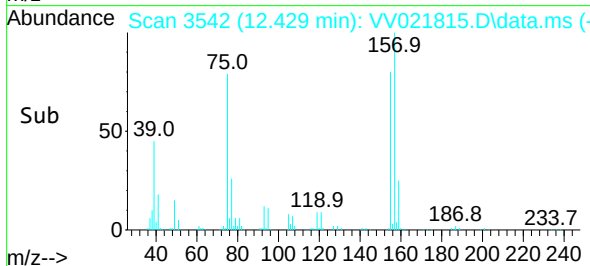
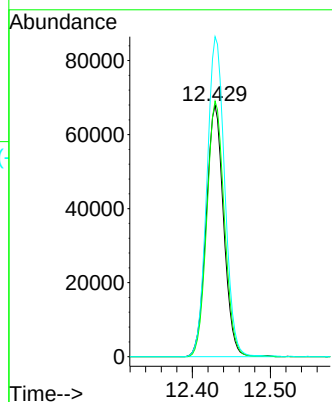
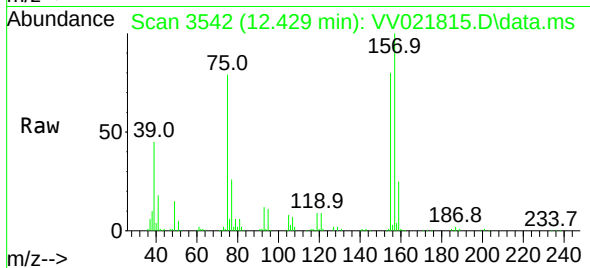




#68
1,2-Dibromo-3-chloropropane
Concen: 110.753 ug/L
RT: 12.429 min Scan# 3542
Delta R.T. -0.000 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 105641
Ion Ratio Lower Upper
75 100
155 101.7 77.8 116.8
157 127.3 99.4 149.0



#71
Naphthalene
Concen: 0.648 ug/L
RT: 13.513 min Scan# 3879
Delta R.T. 0.010 min
Lab File: VV021815.D
Acq: 17 Aug 2021 15:20

Tgt Ion:128 Resp: 7889
Ion Ratio Lower Upper
128 100
127 7.6 10.0 15.0#
129 9.9 8.5 12.7

