

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100521\
 Data File : VW022583.D
 Acq On : 05 Oct 2021 18:15
 Operator : SY/MD
 Sample : M4052-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 06 05:30:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR100421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 06 05:22:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	105584	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	102964	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	47689	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	38815	11.474	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	229.400%#	
7) Chloroethane-d5	1.561	69	34277	7.517	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	150.400%#	
11) 1,1-Dichloroethene-d2	2.108	63	105371	10.735	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	214.800%#	
20) 2-Butanone-d5	3.876	46	83324	41.668	ug/L	-0.03
Spiked Amount	50.000	Range 40 - 130	Recovery	=	83.340%	
24) Chloroform-d	4.349	84	69084	5.303	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	106.000%	
26) 1,2-Dichloroethane-d4	5.034	65	34587	5.636	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	112.800%	
32) Benzene-d6	5.050	84	143964	6.205	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	124.000%	
36) 1,2-Dichloropropane-d6	6.069	67	44086	5.385	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	107.800%	
41) Toluene-d8	7.317	98	126503	6.504	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	130.000%	
43) trans-1,3-Dichloroprop...	7.625	79	12383	5.716	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	114.400%	
46) 2-Hexanone-d5	8.088	63	59601	44.433	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	88.860%	
56) 1,1,2,2-Tetrachloroeth...	10.217	84	28399	4.566	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	91.400%	
66) 1,2-Dichlorobenzene-d4	11.625	152	47697	6.466	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	129.400%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	1810	0.223	ug/L #	40
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	991	0.142	ug/L #	30
12) 1,1-Dichloroethene	2.114	96	93364	14.435	ug/L	97
14) Carbon disulfide	2.291	76	2423	0.128	ug/L	95
17) Methyl tert-butyl Ether	2.767	73	4252	0.259	ug/L #	88
18) trans-1,2-Dichloroethene	2.764	96	1508	0.214	ug/L	90
19) 1,1-Dichloroethane	3.188	63	16609	1.313	ug/L	98
22) cis-1,2-Dichloroethene	3.909	96	117363	15.346	ug/L	95
25) Chloroform	4.381	83	5988	0.434	ug/L	98
27) 1,2-Dichloroethane	5.140	62	466	0.063	ug/L #	74
29) 1,1,1-Trichloroethane	4.616	97	7480	0.636	ug/L #	86
34) Trichloroethene	5.915	95	159747	19.810	ug/L	99
35) Methylcyclohexane	6.072	83	10910	0.966	ug/L #	21
37) 1,2-Dichloropropane	6.069	63	4944	0.730	ug/L #	84
39) cis-1,3-Dichloropropene	6.992	75	960	0.105	ug/L #	40
42) Toluene	7.394	91	4393	0.151	ug/L	99
45) 1,1,2-Trichloroethane	7.854	97	886	0.175	ug/L	89
47) Tetrachloroethene	7.976	164	250113	39.887	ug/L	98
48) 2-Hexanone	8.150	43	5170	1.927	ug/L #	51

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV100521\
Data File : VV022583.D
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Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

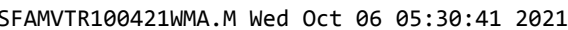
Instrument :
MSVOA_V
ClientSampleId :

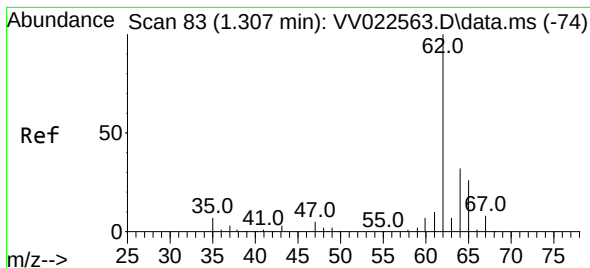
Quant Time: Oct 06 05:30:33 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR100421WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Oct 06 05:22:36 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	7.976	129	221281	37.124	ug/L #	12
61) 1,2,3-Trichloropropane	11.249	75	4883	1.381	ug/L #	64

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

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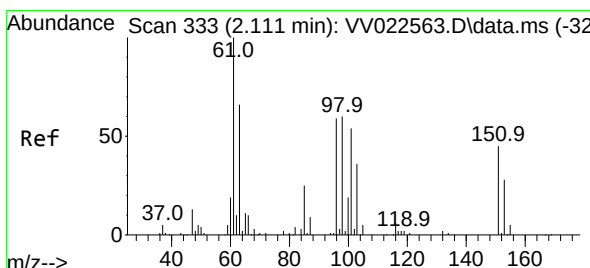
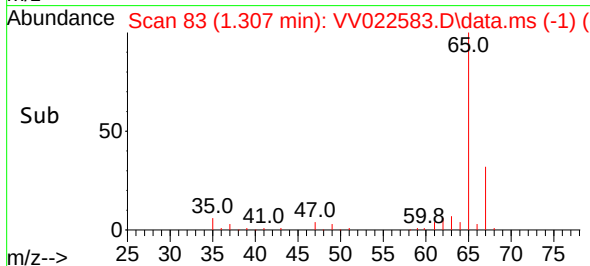
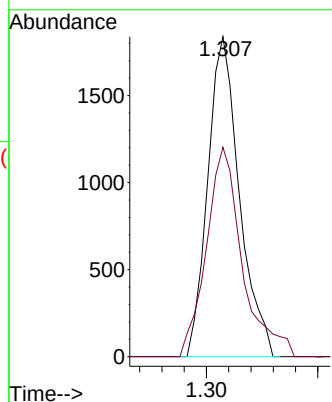
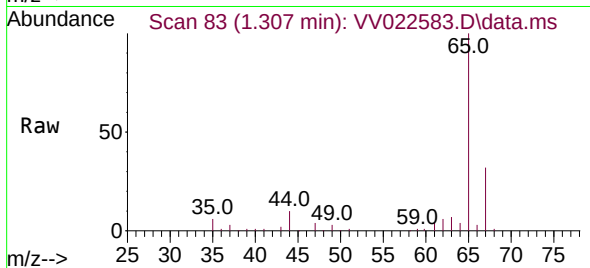




#5
 Vinyl chloride
 Concen: 0.223 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VV022583.D
 Acq: 05 Oct 2021 18:15

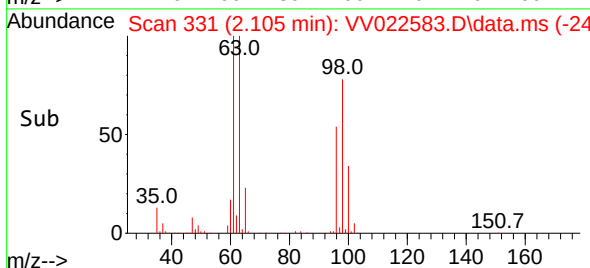
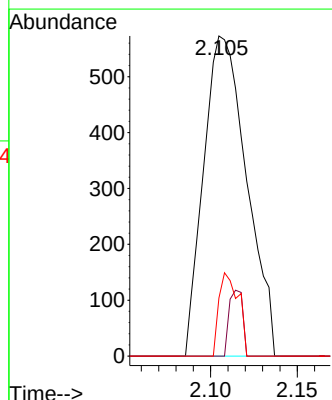
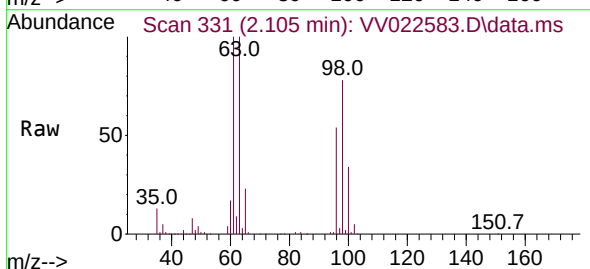
Instrument :
 MSVOA_V
 ClientSampled :

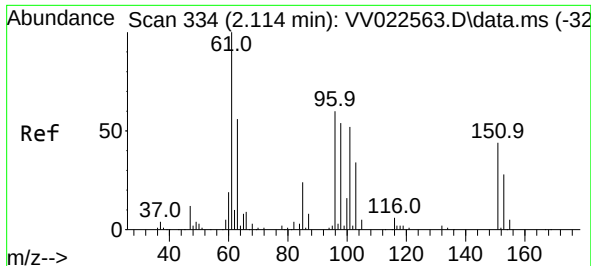
Tgt Ion: 62 Resp: 1810
 Ion Ratio Lower Upper
 62 100
 64 65.5 22.3 41.5#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.142 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.006 min
 Lab File: VV022583.D
 Acq: 05 Oct 2021 18:15

Tgt Ion: 101 Resp: 991
 Ion Ratio Lower Upper
 101 100
 85 6.5 35.8 53.6#
 151 11.7 61.9 92.9#

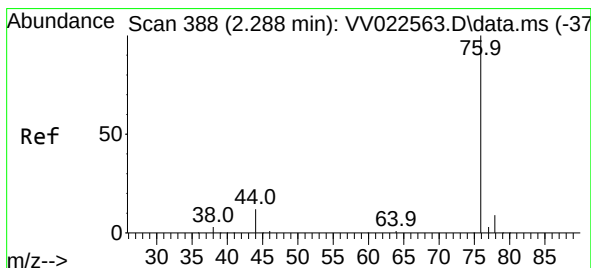
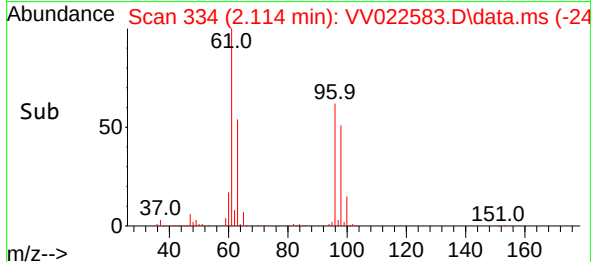
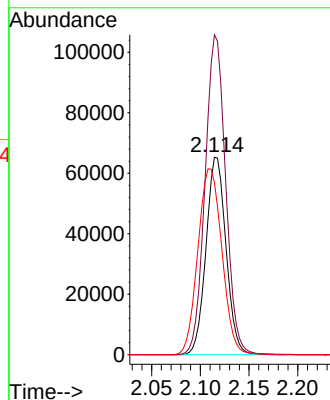
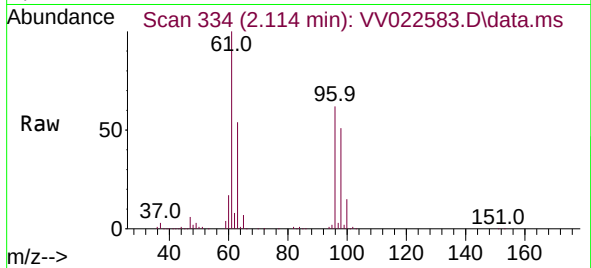




#12
1,1-Dichloroethene
Concen: 14.435 ug/L
RT: 2.114 min Scan# 334
Delta R.T. 0.000 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

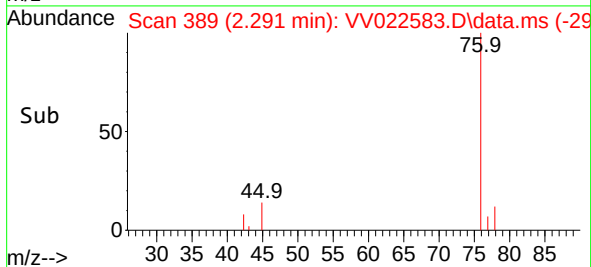
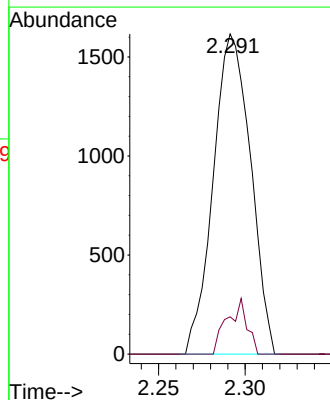
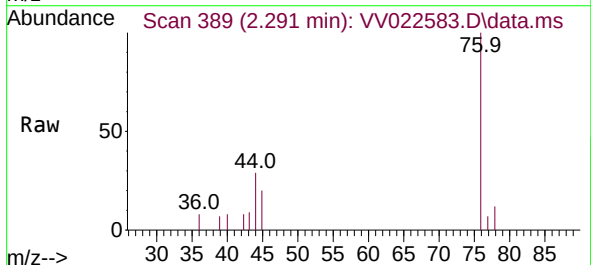
Instrument :
MSVOA_V
ClientSampled :

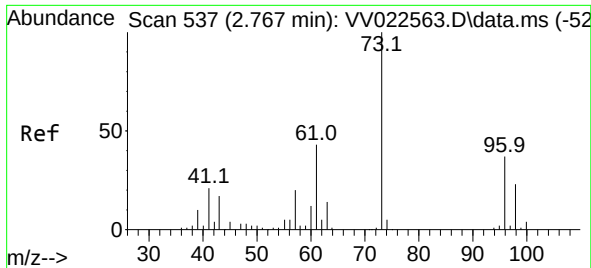
Tgt Ion: 96 Resp: 93364
Ion Ratio Lower Upper
96 100
61 162.1 113.2 210.2
63 87.2 66.6 123.8



#14
Carbon disulfide
Concen: 0.128 ug/L
RT: 2.291 min Scan# 389
Delta R.T. 0.003 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Tgt Ion: 76 Resp: 2423
Ion Ratio Lower Upper
76 100
78 11.6 7.8 11.6

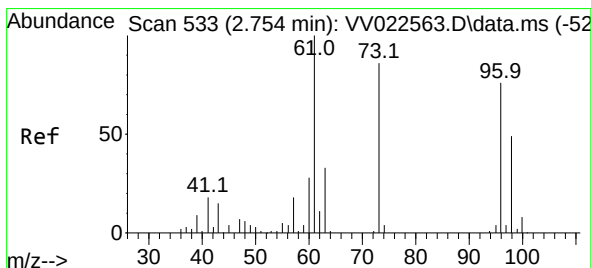
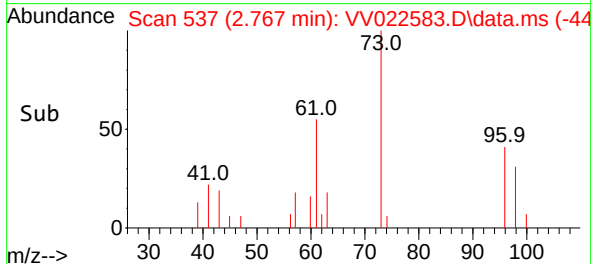
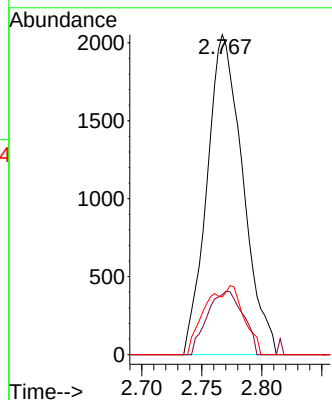
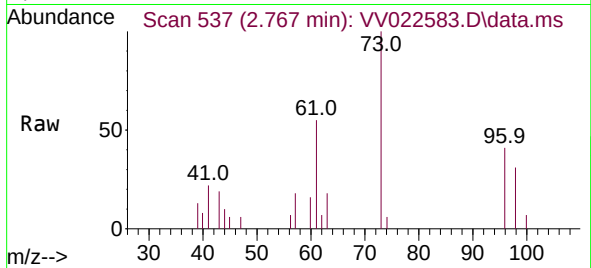




#17
Methyl tert-butyl Ether
Concen: 0.259 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.000 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

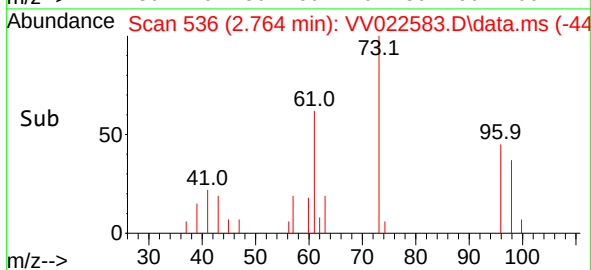
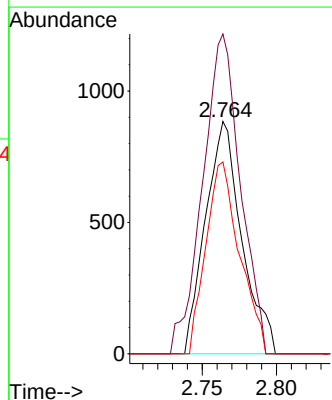
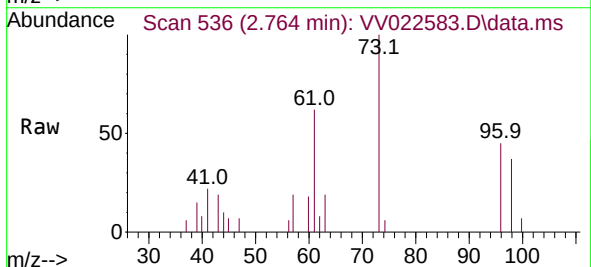
Instrument :
MSVOA_V
ClientSampled :

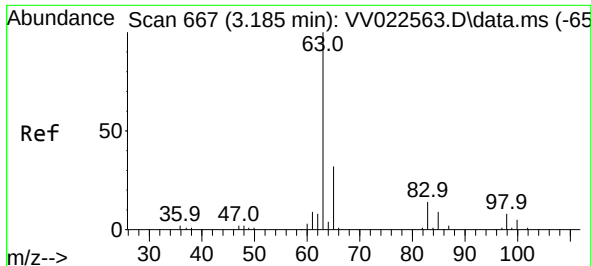
Tgt Ion: 73 Resp: 4252
Ion Ratio Lower Upper
73 100
43 19.9 16.3 24.5
57 11.5 17.5 26.3#



#18
trans-1,2-Dichloroethene
Concen: 0.214 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.010 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Tgt Ion: 96 Resp: 1508
Ion Ratio Lower Upper
96 100
61 137.7 94.0 174.6
98 82.6 44.9 83.3





#19

1,1-Dichloroethane

Concen: 1.313 ug/L

RT: 3.188 min Scan# 668

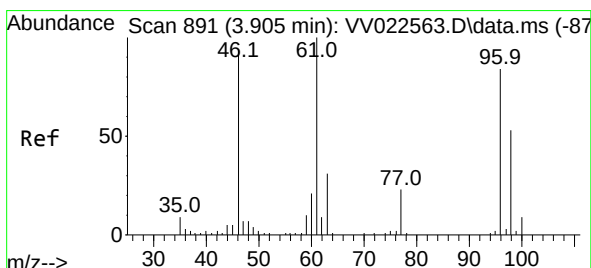
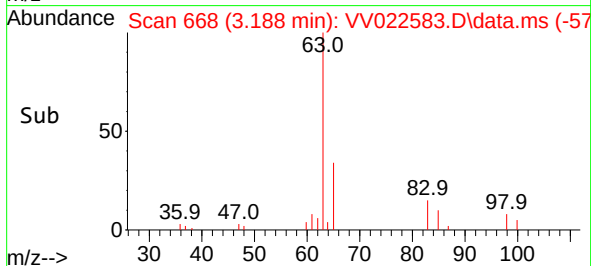
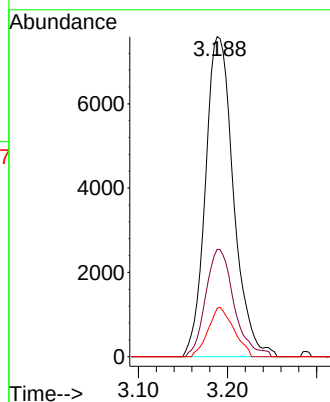
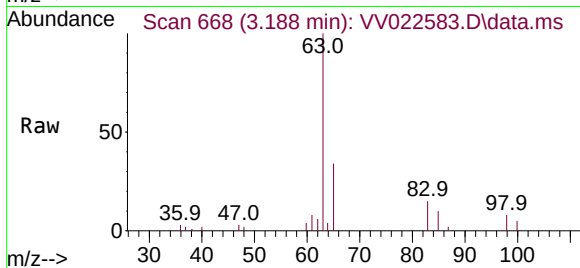
Delta R.T. 0.003 min

Lab File: VV022583.D

Acq: 05 Oct 2021 18:15

Tgt Ion: 63	Resp: 16609
Ion Ratio	Lower Upper
63 100	
65 33.6	22.8 42.4
83 15.1	10.2 19.0

Instrument :
MSVOA_V
ClientSampleId :



#22

cis-1,2-Dichloroethene

Concen: 15.346 ug/L

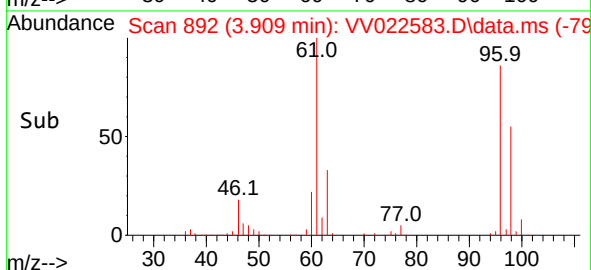
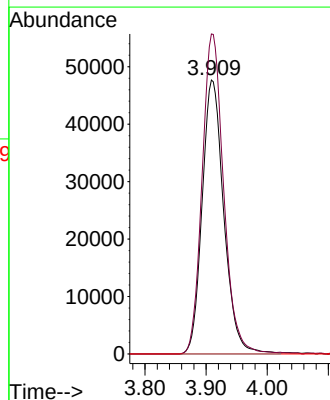
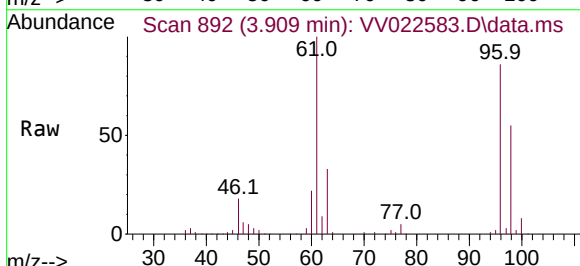
RT: 3.909 min Scan# 892

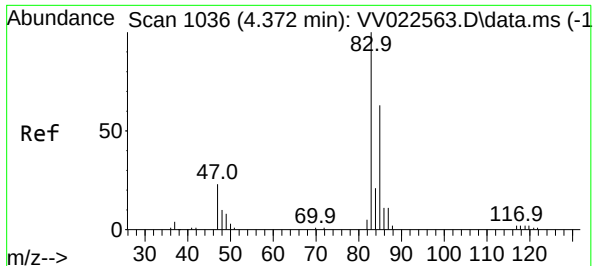
Delta R.T. 0.003 min

Lab File: VV022583.D

Acq: 05 Oct 2021 18:15

Tgt Ion: 96	Resp: 117363
Ion Ratio	Lower Upper
96 100	
61 116.8	85.6 159.0
68 0.0	0.0 0.0





#25

Chloroform

Concen: 0.434 ug/L

RT: 4.381 min Scan# 1039

Delta R.T. 0.010 min

Lab File: VV022583.D

Acq: 05 Oct 2021 18:15

Tgt Ion: 83 Resp: 5988

Ion Ratio Lower Upper

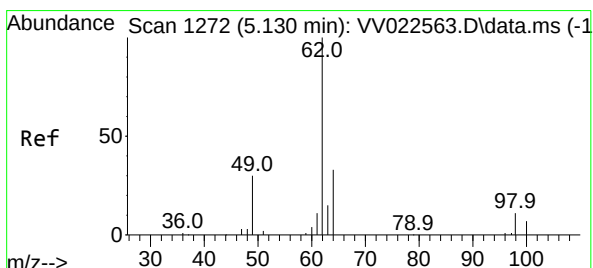
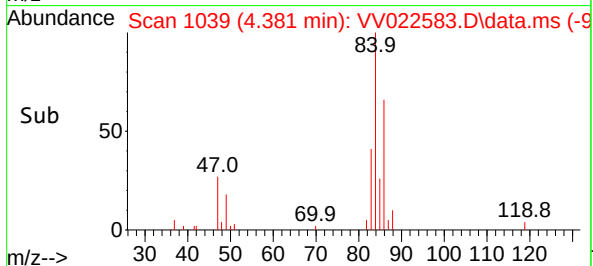
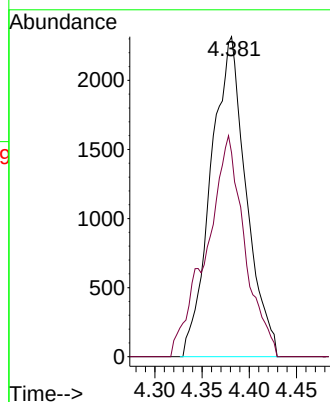
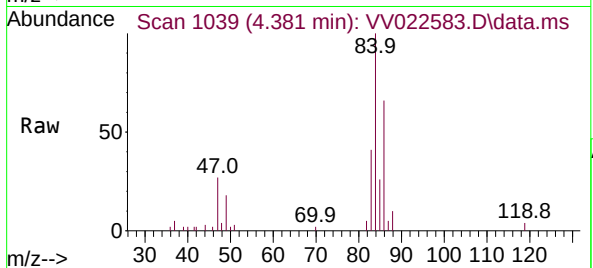
83 100

85 63.7 45.6 84.8

Instrument :

MSVOA_V

ClientSampled :



#27

1,2-Dichloroethane

Concen: 0.063 ug/L

RT: 5.140 min Scan# 1275

Delta R.T. 0.010 min

Lab File: VV022583.D

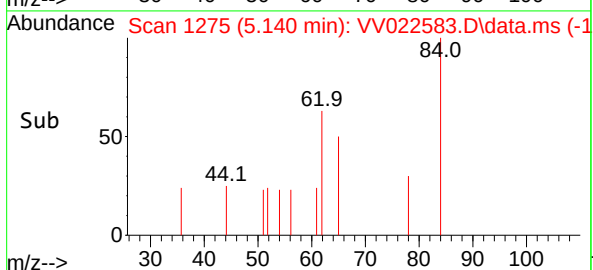
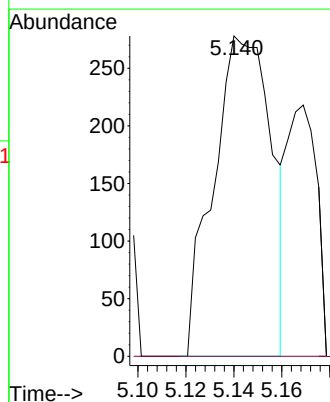
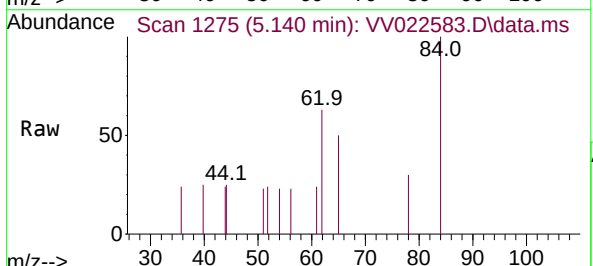
Acq: 05 Oct 2021 18:15

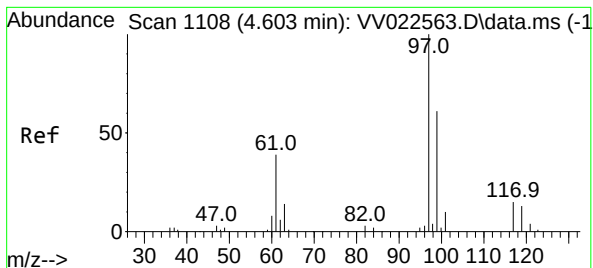
Tgt Ion: 62 Resp: 466

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.2#



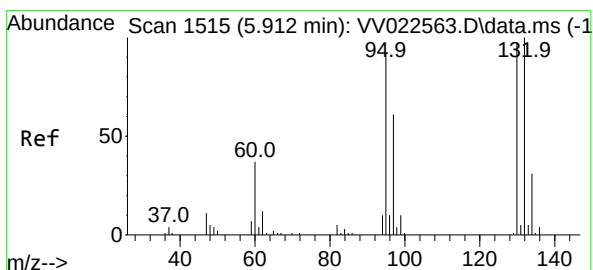
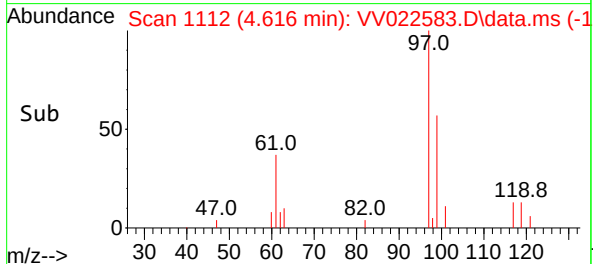
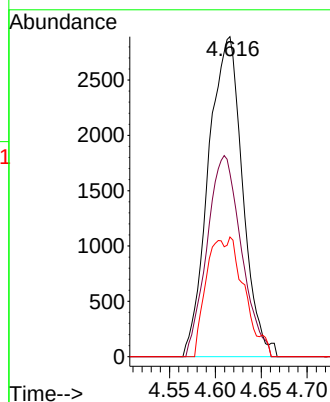
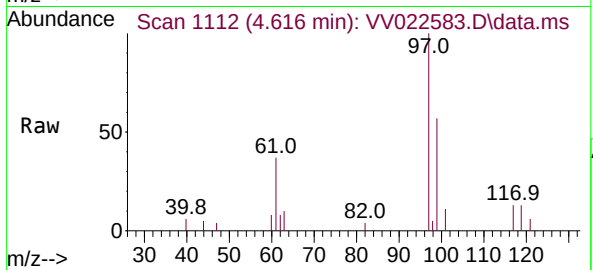


#29

1,1,1-Trichloroethane
Concen: 0.636 ug/L
RT: 4.616 min Scan# 1112
Delta R.T. 0.013 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Instrument :
MSVOA_V
ClientSampled :

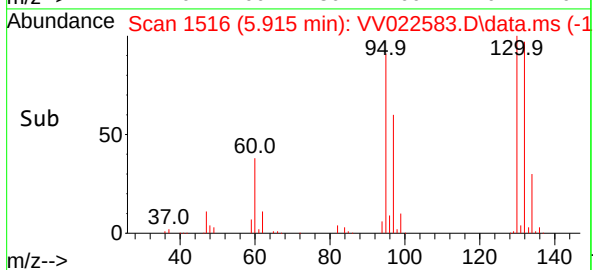
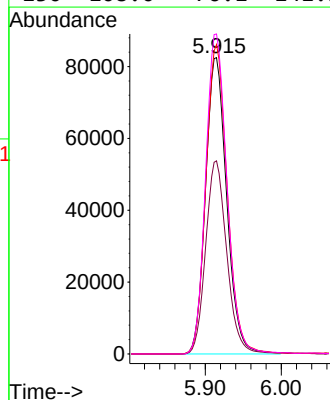
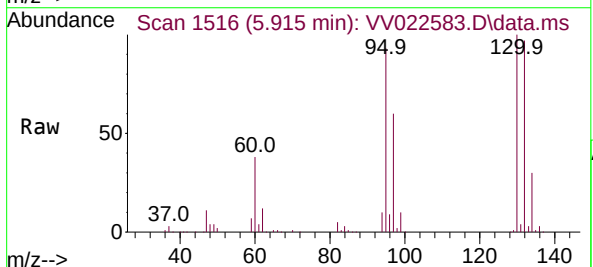
Tgt Ion: 97 Resp: 7480
Ion Ratio Lower Upper
97 100
99 63.3 49.8 74.6
61 20.4 32.5 48.7#

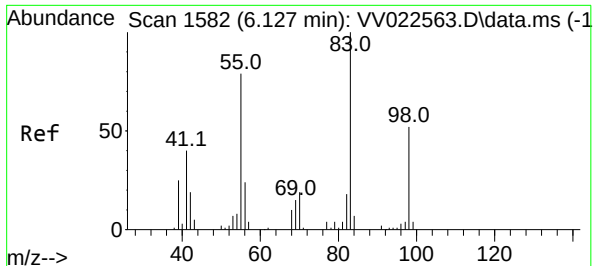


#34

Trichloroethene
Concen: 19.810 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. 0.003 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Tgt Ion: 95 Resp: 159747
Ion Ratio Lower Upper
95 100
97 65.1 46.5 86.5
132 104.4 73.0 135.6
130 108.0 76.1 141.3





#35

Methylcyclohexane

Concen: 0.966 ug/L

RT: 6.072 min Scan# 1565

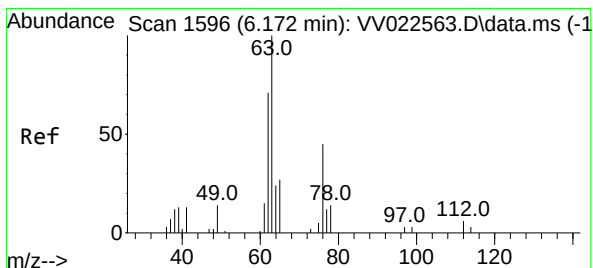
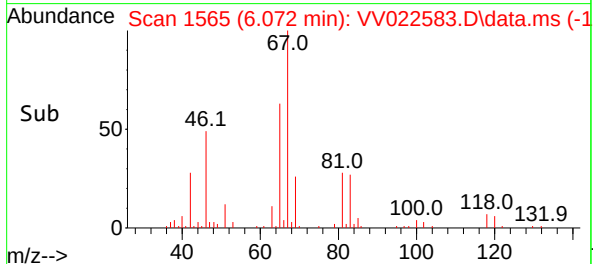
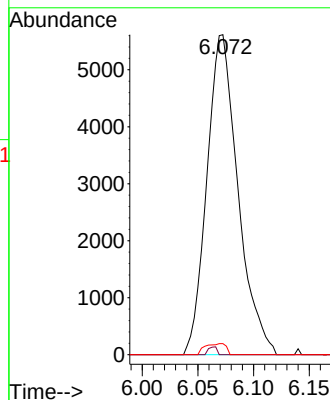
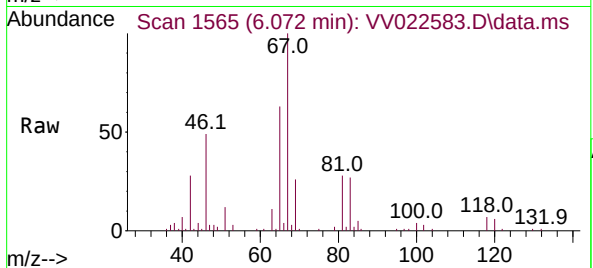
Delta R.T. -0.055 min

Lab File: VV022583.D

Acq: 05 Oct 2021 18:15

Tgt Ion:	83	Resp:	10910
Ion	Ratio	Lower	Upper
83	100		
55	0.7	57.8	86.8#
98	2.3	39.8	59.8#

Instrument :
MSVOA_V
ClientSampled :



#37

1,2-Dichloropropane

Concen: 0.730 ug/L

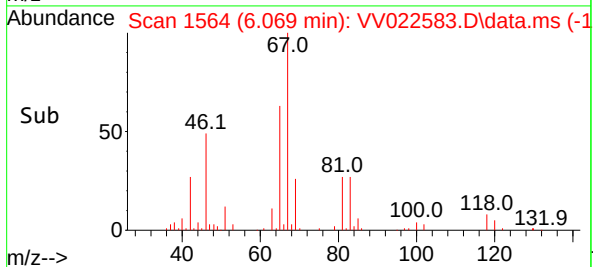
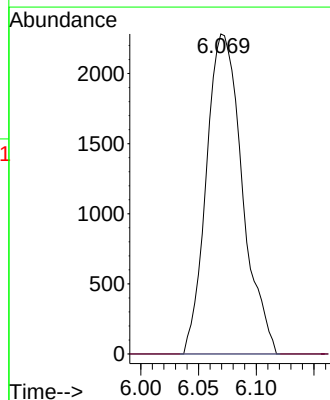
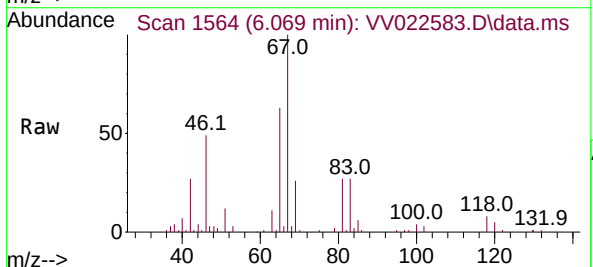
RT: 6.069 min Scan# 1564

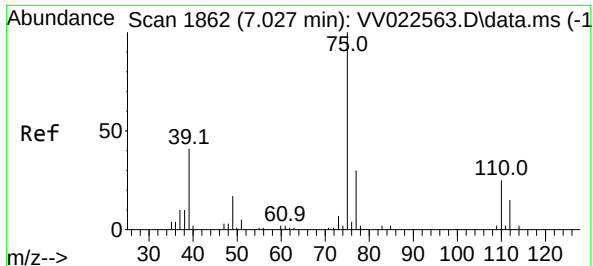
Delta R.T. -0.103 min

Lab File: VV022583.D

Acq: 05 Oct 2021 18:15

Tgt Ion:	63	Resp:	4944
Ion	Ratio	Lower	Upper
63	100		
112	0.0	4.3	6.5#

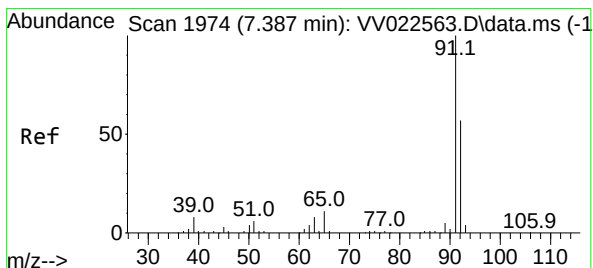
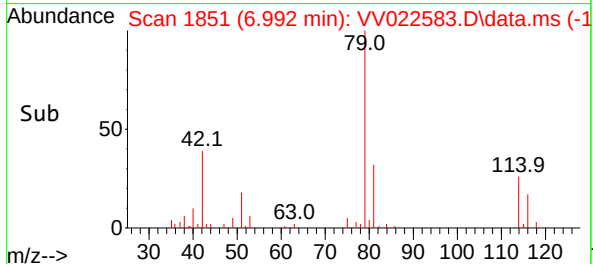
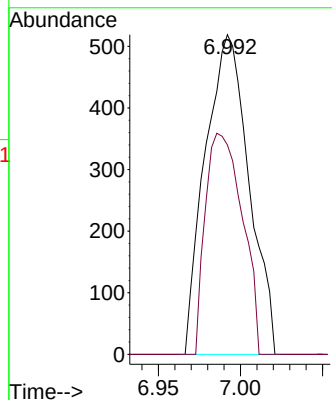
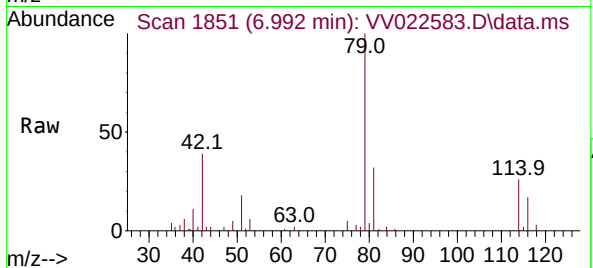




#39
cis-1,3-Dichloropropene
Concen: 0.105 ug/L
RT: 6.992 min Scan# 1851
Delta R.T. -0.035 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

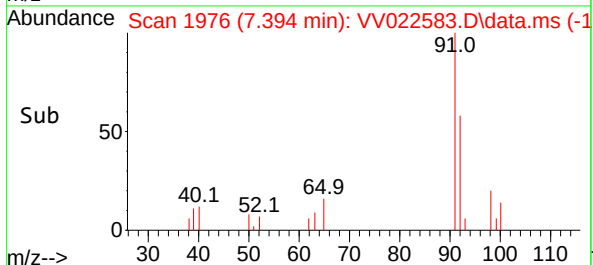
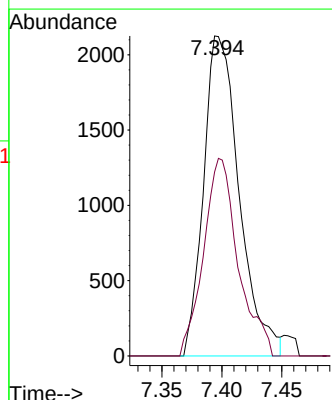
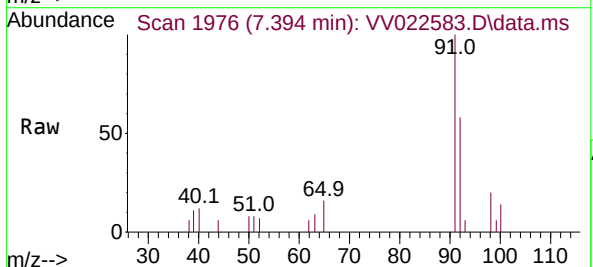
Instrument :
MSVOA_V
ClientSampled :

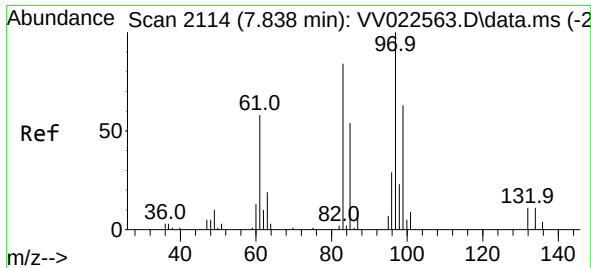
Tgt Ion: 75 Resp: 960
Ion Ratio Lower Upper
75 100
77 65.5 22.4 41.6#



#42
Toluene
Concen: 0.151 ug/L
RT: 7.394 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Tgt Ion: 91 Resp: 4393
Ion Ratio Lower Upper
91 100
92 57.5 40.5 75.3



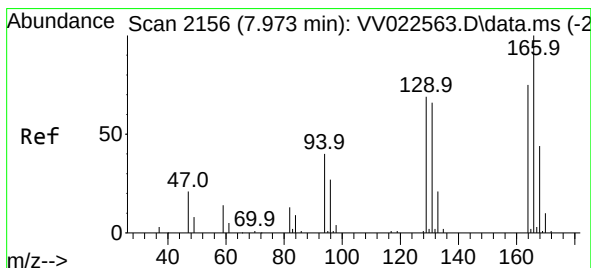
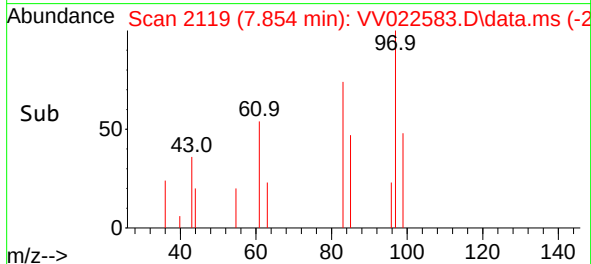
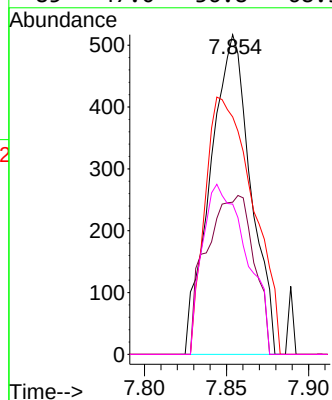
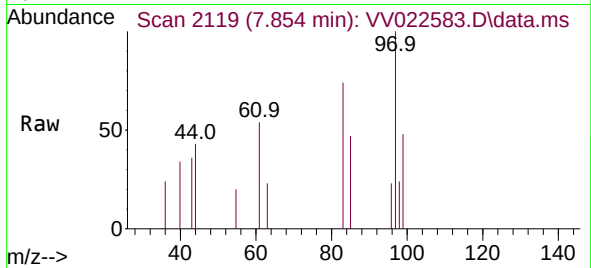


#45
1,1,2-Trichloroethane
Concen: 0.175 ug/L
RT: 7.854 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 97 Resp: 886

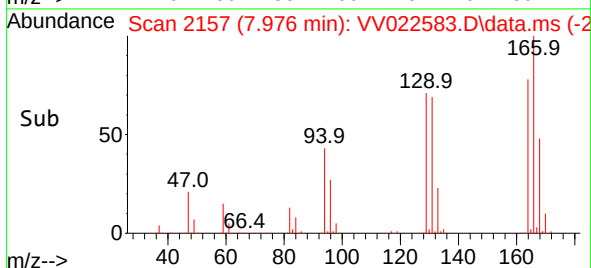
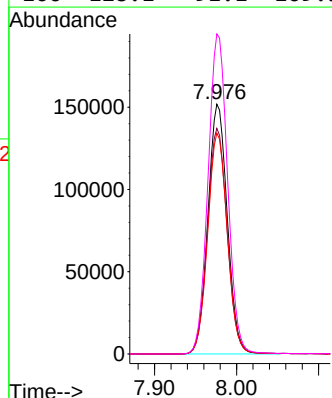
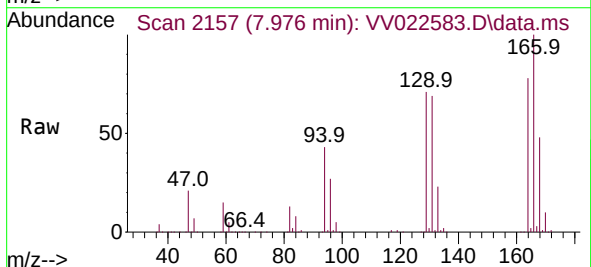
Ion	Ratio	Lower	Upper
97	100		
99	47.6	42.6	79.0
83	74.3	57.7	107.1
85	47.0	36.8	68.3

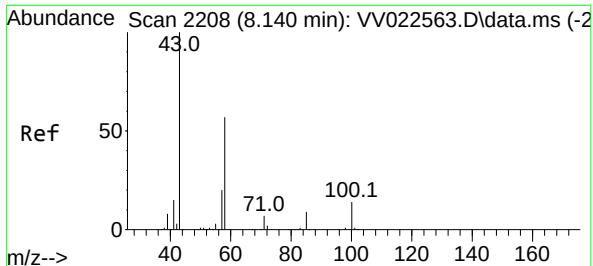


#47
Tetrachloroethene
Concen: 39.887 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Tgt Ion: 164 Resp: 250113

Ion	Ratio	Lower	Upper
164	100		
129	90.3	65.5	121.6
131	88.4	62.4	116.0
166	128.1	91.1	169.3

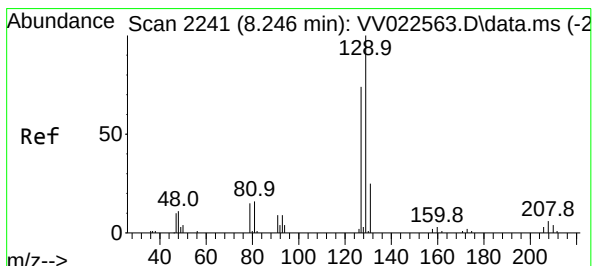
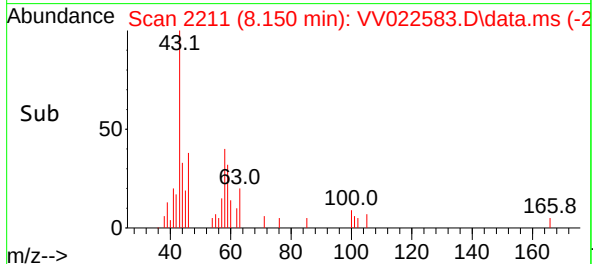
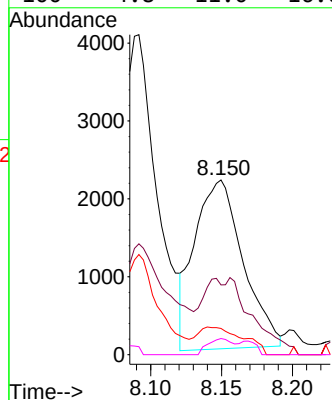
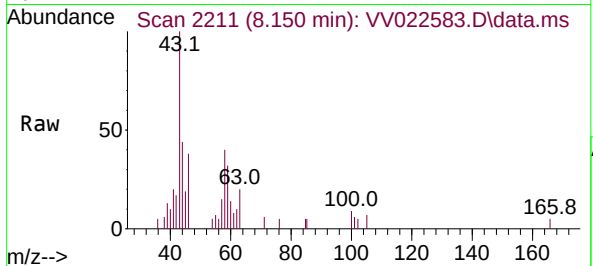




#48
2-Hexanone
Concen: 1.927 ug/L
RT: 8.150 min Scan# 2211
Delta R.T. 0.010 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

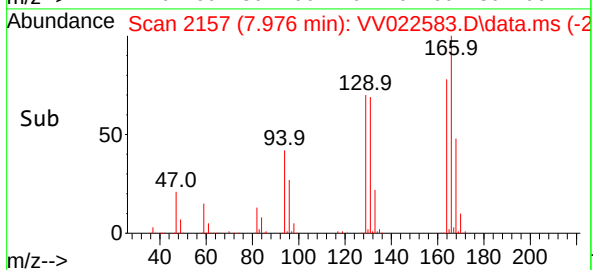
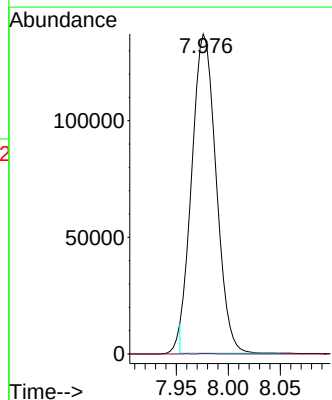
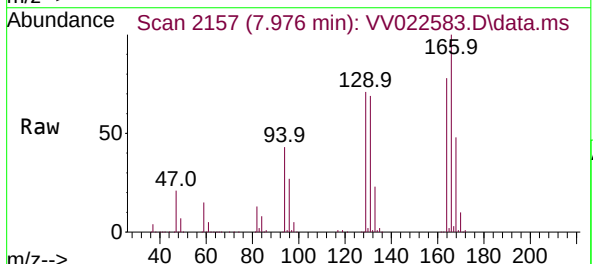
Instrument :
MSVOA_V
ClientSampled :

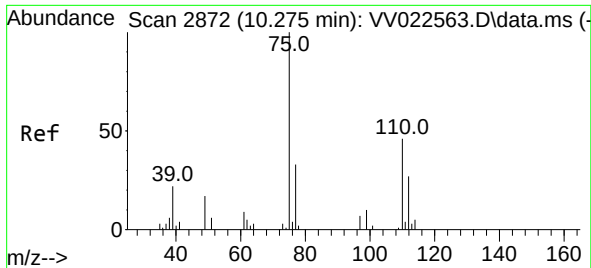
Tgt Ion: 43	Resp: 5170
Ion Ratio	Lower Upper
43 100	
58 6.4	46.4 69.6#
57 15.5	16.3 24.5#
100 4.8	11.0 16.6#



#49
Dibromochloromethane
Concen: 37.124 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.270 min
Lab File: VV022583.D
Acq: 05 Oct 2021 18:15

Tgt Ion: 129	Resp: 221281
Ion Ratio	Lower Upper
129 100	
127 0.1	52.6 97.6#





#61
 1,2,3-Trichloropropane
 Concen: 1.381 ug/L
 RT: 11.249 min Scan# 3175
 Delta R.T. 0.974 min
 Lab File: VV022583.D
 Acq: 05 Oct 2021 18:15

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion: 75 Resp: 4883
 Ion Ratio Lower Upper
 75 100
 77 33.1 26.1 39.1
 110 0.9 33.0 49.6#

