

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031529.D
 Acq On : 15 Jun 2023 14:27
 Operator : SY/MD
 Sample : 03249-05
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS7

Quant Time: Jun 16 02:48:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	177766	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	177802	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	86668	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	49664	41.978	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	83.960%		
7) Chloroethane-d5	1.535	69	48310	46.799	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.600%		
11) 1,1-Dichloroethene-d2	2.066	65	26263	43.072	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	86.140%		
21) 2-Butanone-d5	3.796	46	114580	119.606	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	119.610%		
24) Chloroform-d	4.259	84	141245	47.670	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.340%		
26) 1,2-Dichloroethane-d4	4.950	65	96978	52.312	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	104.620%		
32) Benzene-d6	4.969	84	250440	50.041	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	100.080%		
36) 1,2-Dichloropropane-d6	5.995	67	91712	51.703	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	103.400%		
41) Toluene-d8	7.249	98	210638	45.864	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	91.720%		
43) trans-1,3-Dichloroprop...	7.558	79	43432	50.226	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	100.460%		
47) 2-Hexanone-d5	8.030	63	78727	112.408	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	112.410%		
56) 1,1,2,2-Tetrachloroeth...	10.159	84	135584	50.640	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	101.280%		
66) 1,2-Dichlorobenzene-d4	11.567	152	92332	55.890	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	111.780%		
Target Compounds						Qvalue
5) Vinyl chloride	1.288	62	96388	54.649	ug/L	100
8) Chloroethane	1.555	64	19351	16.987	ug/L	98
12) 1,1-Dichloroethene	2.076	96	12597	9.577	ug/L #	1
17) trans-1,2-Dichloroethene	2.706	96	7804	5.684	ug/L	92
19) 1,1-Dichloroethane	3.121	63	822444	277.543	ug/L	99
20) cis-1,2-Dichloroethene	3.821	96	970472	654.052	ug/L	99
27) 1,2-Dichloroethane	5.059	62	4738	1.993	ug/L	99
30) 1,1,1-Trichloroethane	4.522	97	670797	235.310	ug/L	100
31) Carbon tetrachloride	4.519	117	80296	31.790	ug/L	100
34) Trichloroethene	5.844	95	8319	5.259	ug/L	95
39) cis-1,3-Dichloropropene	6.924	75	2681	1.039	ug/L #	1
44) trans-1,3-Dichloropropene	7.561	75	2056	0.818	ug/L #	79
46) Tetrachloroethene	7.915	164	19971	16.086	ug/L	96
53) m,p-Xylene	9.085	106	1653	0.659	ug/L	91
54) o-Xylene	9.487	106	2389	1.004	ug/L	80
63) 1,2,4-Trimethylbenzene	10.863	105	9768	2.296	ug/L	99
67) 1,2-Dichlorobenzene	11.586	146	2948	1.054	ug/L	92
71) Naphthalene	13.451	128	7623	1.627	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Jun 16 02:44:48 2023
Response via : Initial Calibration

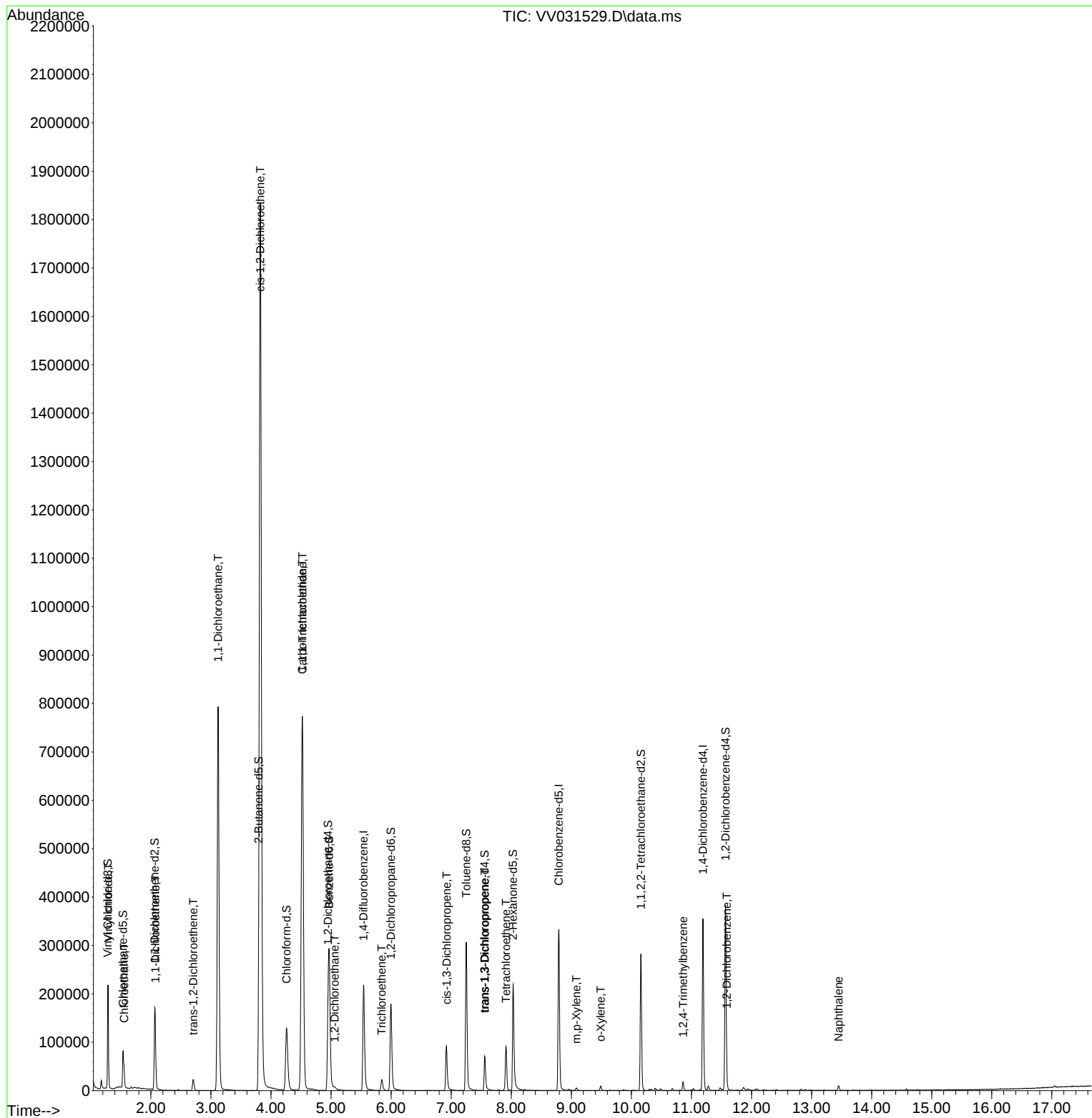
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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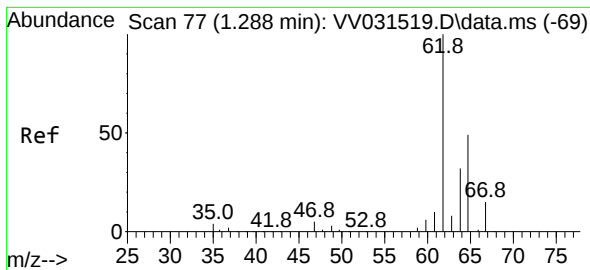
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 54.649 ug/L

RT: 1.288 min Scan# 77

Delta R.T. 0.000 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

Instrument :

MSVOA_V

ClientSampleId :

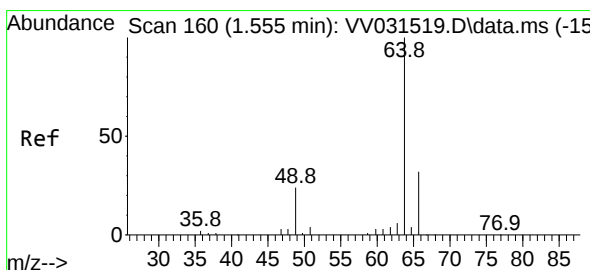
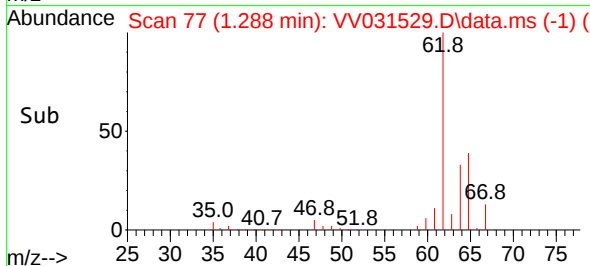
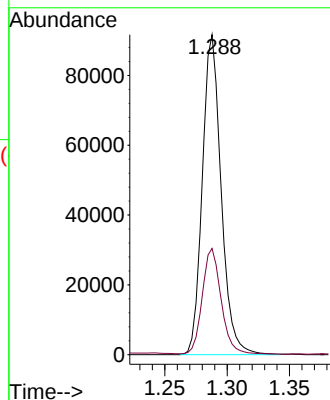
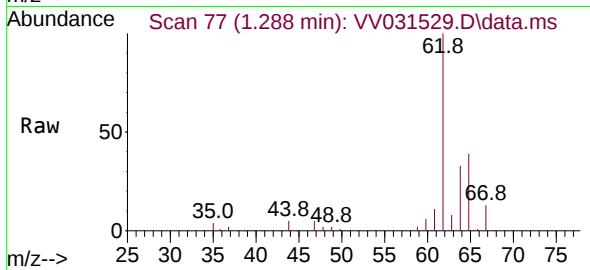
EXYS7

Tgt Ion: 62 Resp: 96388

Ion Ratio Lower Upper

62 100

64 33.2 23.4 43.4



#8

Chloroethane

Concen: 16.987 ug/L

RT: 1.555 min Scan# 160

Delta R.T. 0.000 min

Lab File: VV031529.D

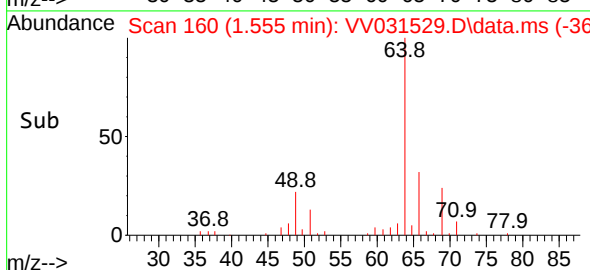
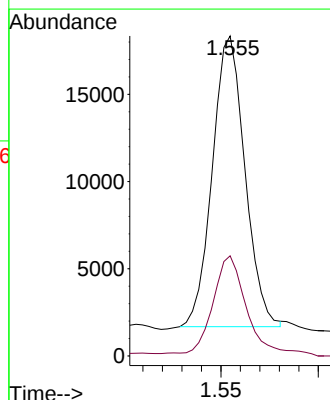
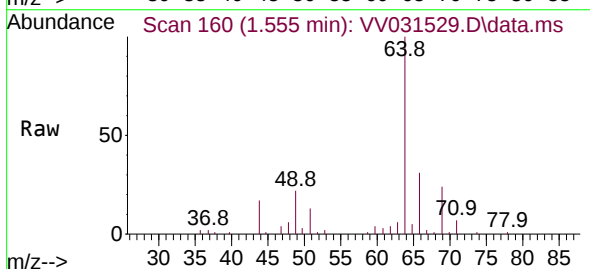
Acq: 15 Jun 2023 14:27

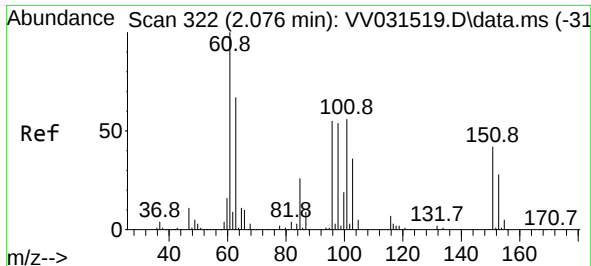
Tgt Ion: 64 Resp: 19351

Ion Ratio Lower Upper

64 100

66 31.3 21.0 39.0





#12

1,1-Dichloroethene

Concen: 9.577 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

Instrument :

MSVOA_V

ClientSampleId :

EXYS7

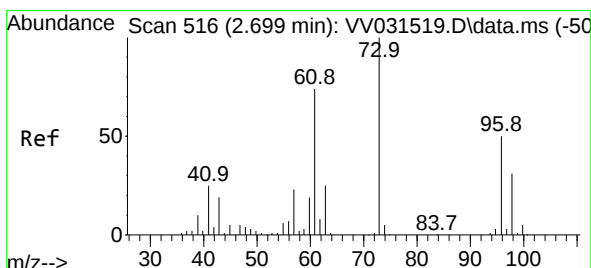
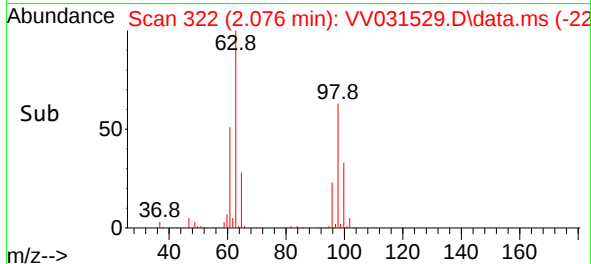
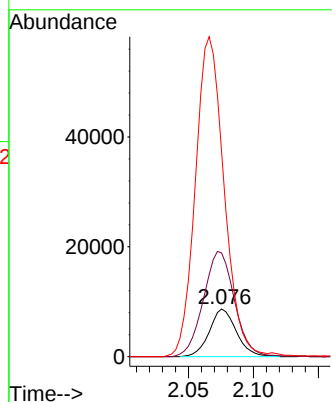
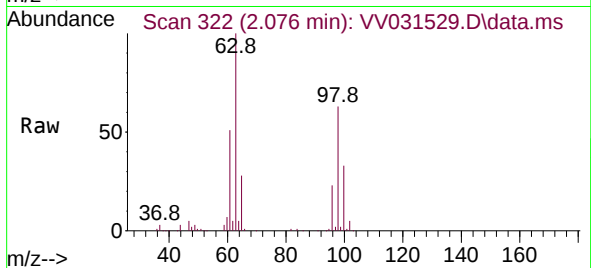
Tgt Ion: 96 Resp: 12597

Ion Ratio Lower Upper

96 100

61 217.3 128.9 239.5

63 428.4 95.3 177.1#



#17

trans-1,2-Dichloroethene

Concen: 5.684 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.006 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

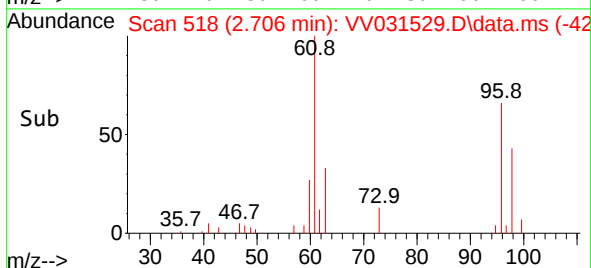
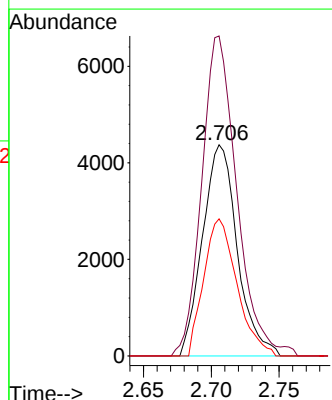
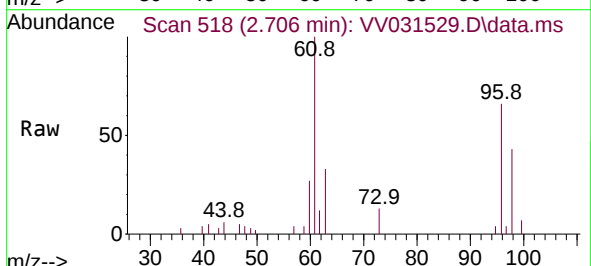
Tgt Ion: 96 Resp: 7804

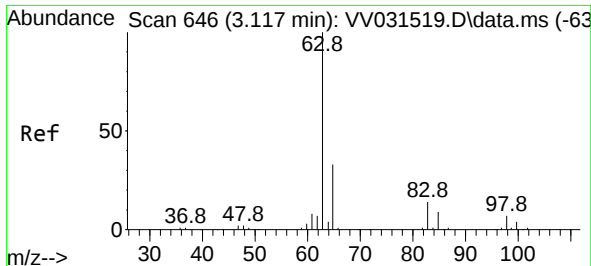
Ion Ratio Lower Upper

96 100

61 159.3 102.5 190.3

98 61.2 44.1 81.9





#19

1,1-Dichloroethane

Concen: 277.543 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

Instrument :

MSVOA_V

ClientSampleId :

EXYS7

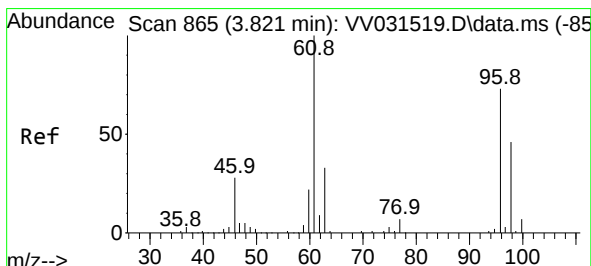
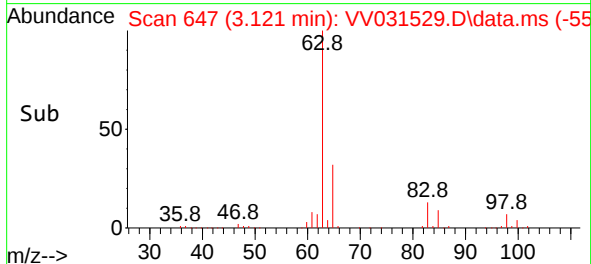
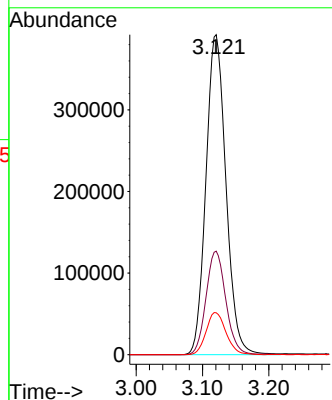
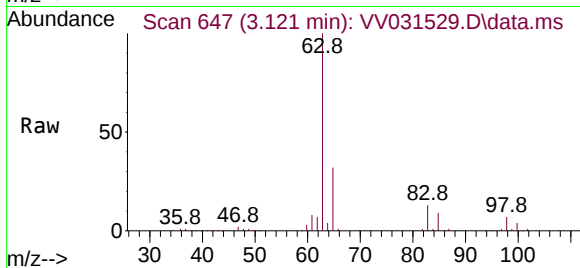
Tgt Ion: 63 Resp: 822444

Ion Ratio Lower Upper

63 100

65 32.3 22.5 41.7

83 13.1 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 654.052 ug/L

RT: 3.821 min Scan# 865

Delta R.T. 0.000 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

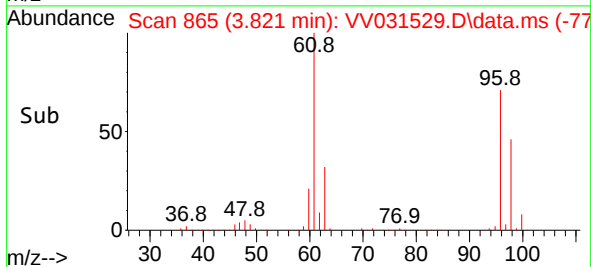
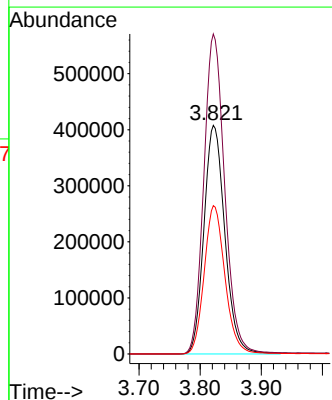
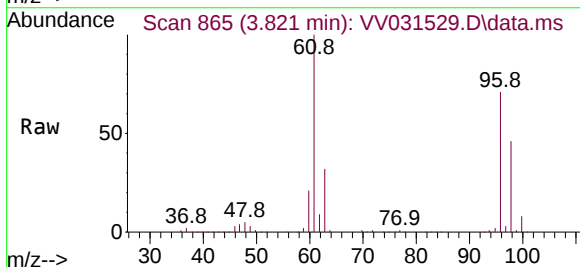
Tgt Ion: 96 Resp: 970472

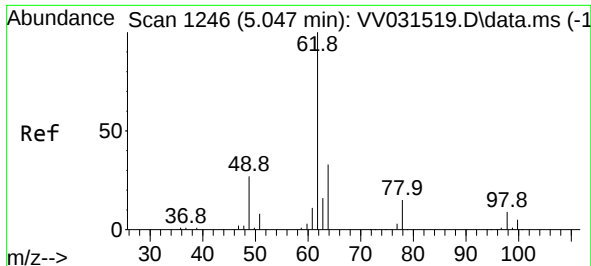
Ion Ratio Lower Upper

96 100

61 139.9 98.6 183.0

98 64.9 45.7 84.9





#27

1,2-Dichloroethane

Concen: 1.993 ug/L

RT: 5.059 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

Instrument :

MSVOA_V

ClientSampleId :

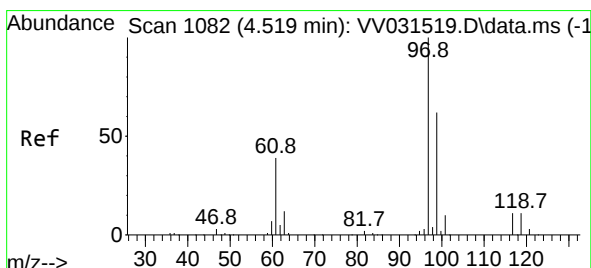
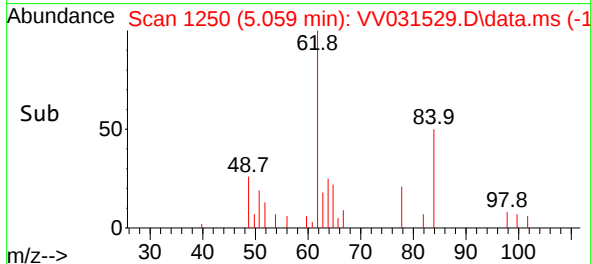
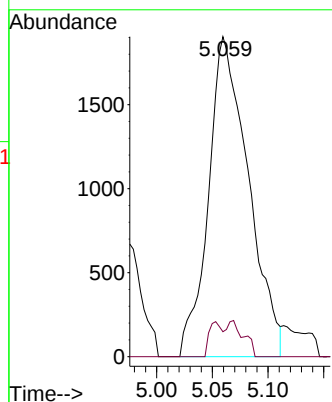
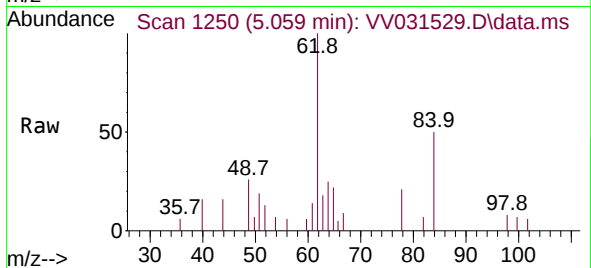
EXYS7

Tgt Ion: 62 Resp: 4738

Ion Ratio Lower Upper

62 100

98 7.8 6.6 9.8



#30

1,1,1-Trichloroethane

Concen: 235.310 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV031529.D

Acq: 15 Jun 2023 14:27

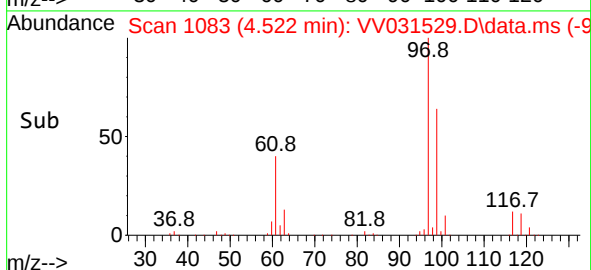
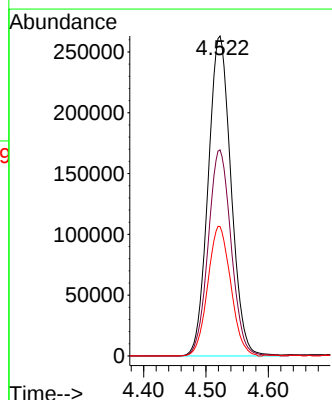
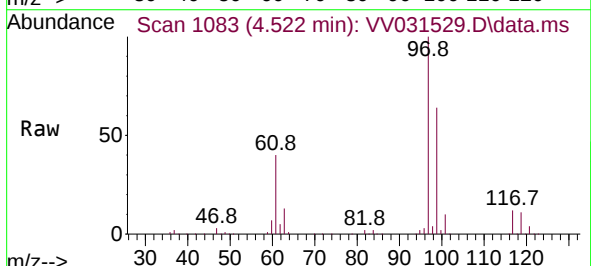
Tgt Ion: 97 Resp: 670797

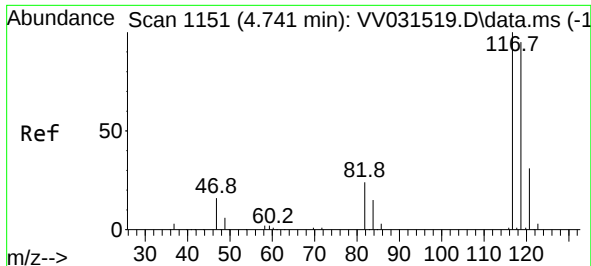
Ion Ratio Lower Upper

97 100

99 64.6 51.8 77.6

61 40.7 33.0 49.6

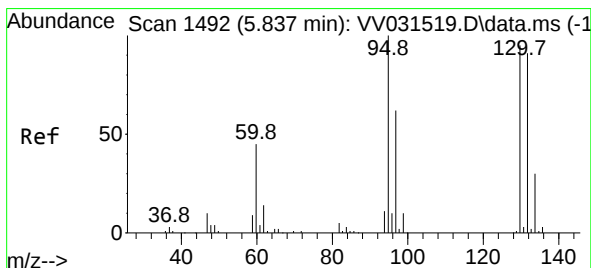
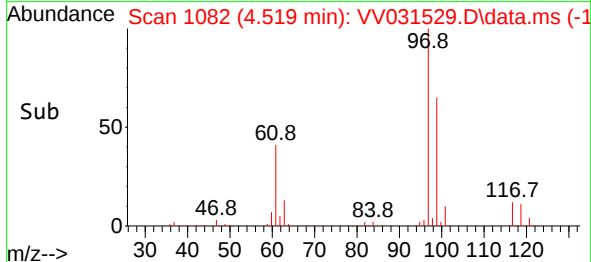
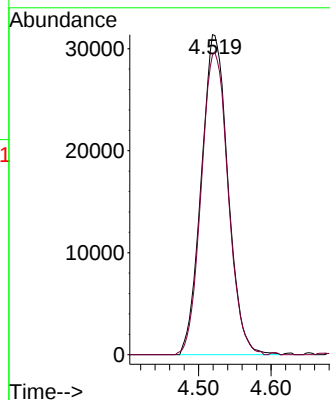
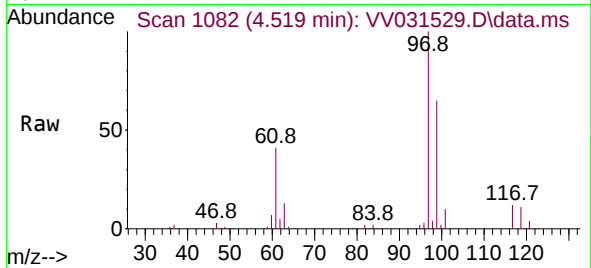




#31
Carbon tetrachloride
Concen: 31.790 ug/L
RT: 4.519 min Scan# 1082
Delta R.T. -0.222 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

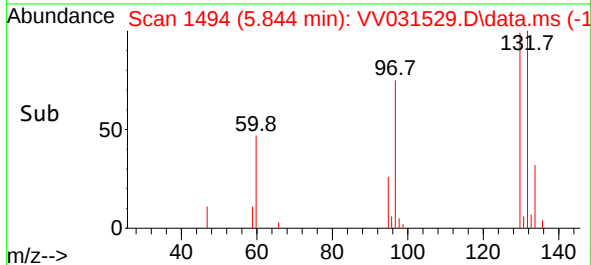
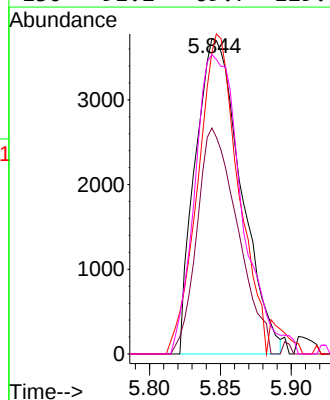
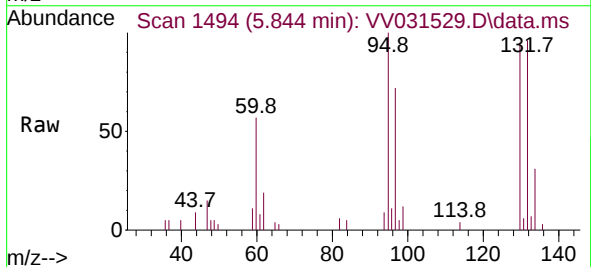
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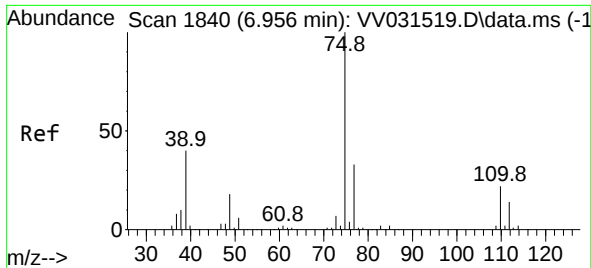
Tgt Ion:117 Resp: 80296
Ion Ratio Lower Upper
117 100
119 95.1 76.2 114.4



#34
Trichloroethene
Concen: 5.259 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

Tgt Ion: 95 Resp: 8319
Ion Ratio Lower Upper
95 100
97 69.0 46.8 86.8
132 92.4 66.4 123.2
130 91.2 69.7 129.4

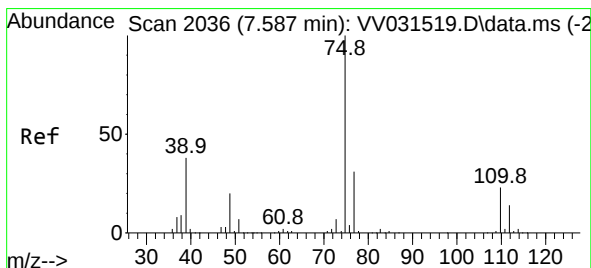
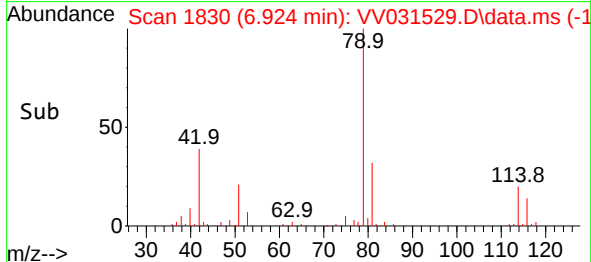
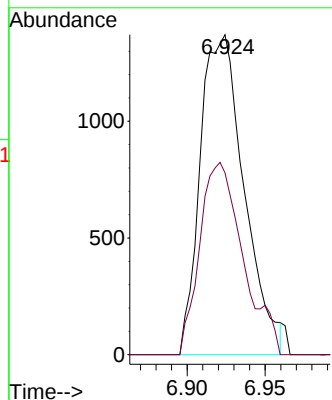
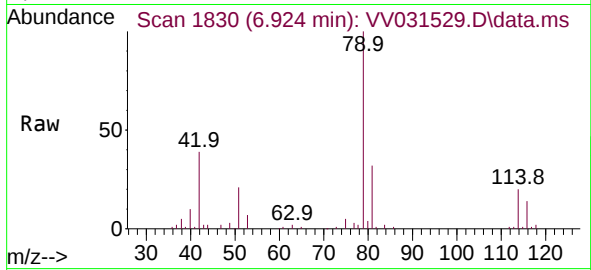




#39
cis-1,3-Dichloropropene
Concen: 1.039 ug/L
RT: 6.924 min Scan# 11
Delta R.T. -0.032 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

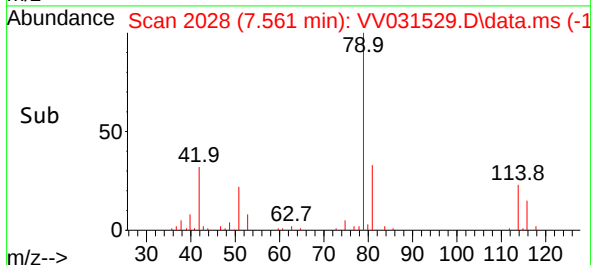
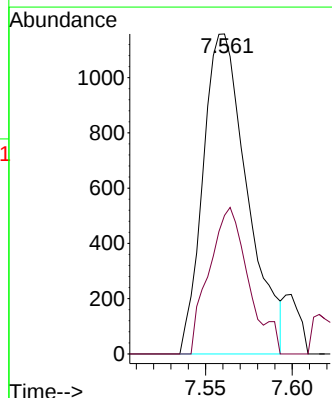
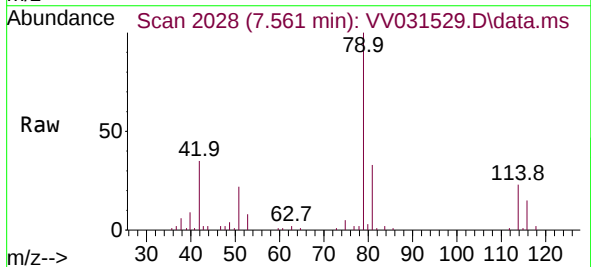
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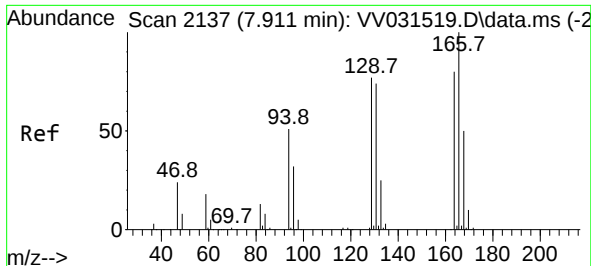
Tgt Ion: 75 Resp: 2681
Ion Ratio Lower Upper
75 100
77 98.9 21.8 40.6#



#44
trans-1,3-Dichloropropene
Concen: 0.818 ug/L
RT: 7.561 min Scan# 2028
Delta R.T. -0.026 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

Tgt Ion: 75 Resp: 2056
Ion Ratio Lower Upper
75 100
77 43.3 22.1 41.1#

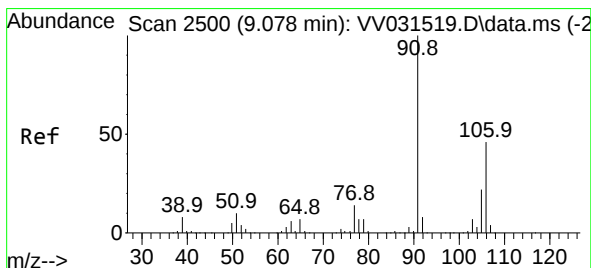
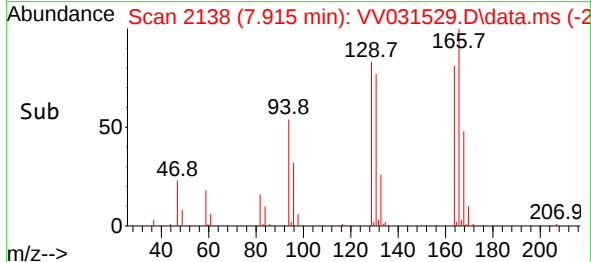
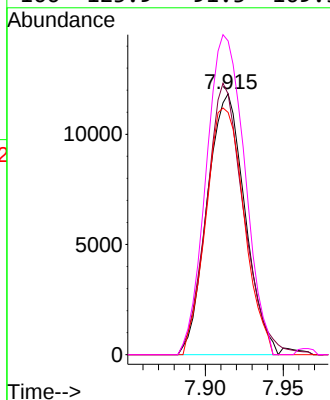
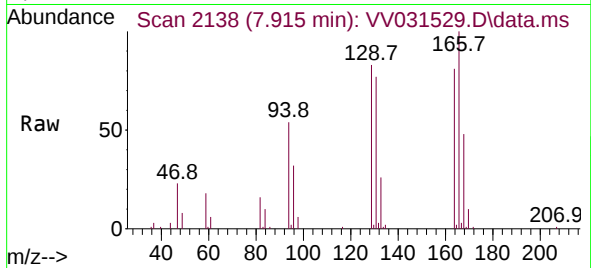




#46
Tetrachloroethene
Concen: 16.086 ug/L
RT: 7.915 min Scan# 2137
Delta R.T. 0.003 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

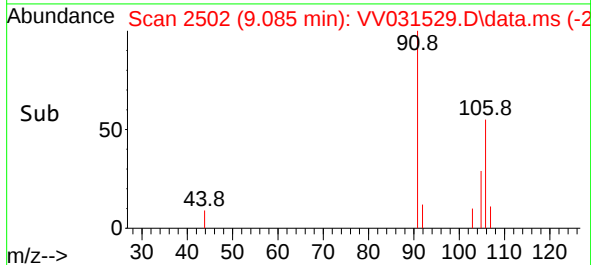
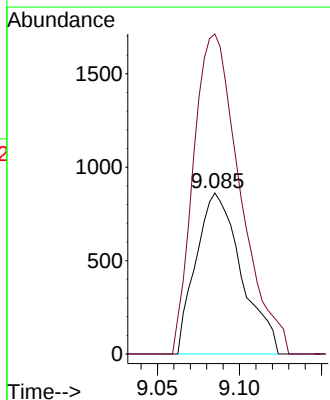
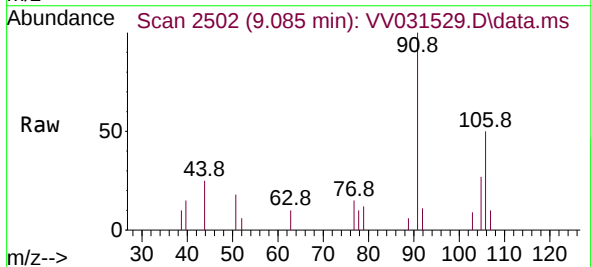
Instrument :
MSVOA_V
ClientSampleId :
EXYS7

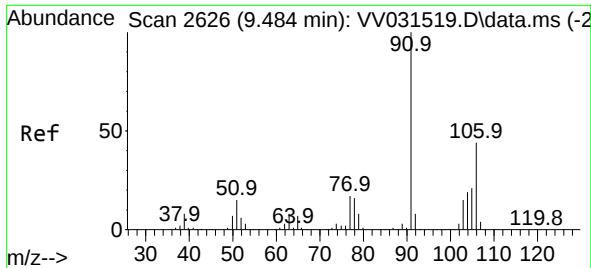
Tgt Ion:164	Resp:	19971
Ion	Ratio	Lower Upper
164	100	
129	102.6	68.4 127.0
131	95.9	67.6 125.6
166	123.9	91.3 169.5



#53
m,p-Xylene
Concen: 0.659 ug/L
RT: 9.085 min Scan# 2502
Delta R.T. 0.006 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

Tgt Ion:106	Resp:	1653
Ion	Ratio	Lower Upper
106	100	
91	198.7	149.0 276.6

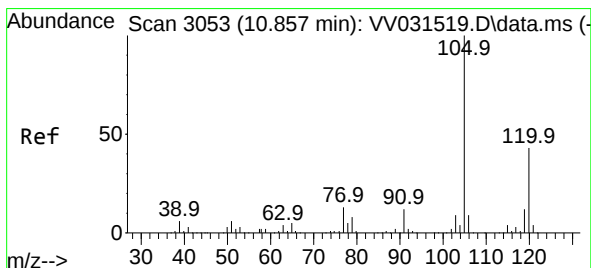
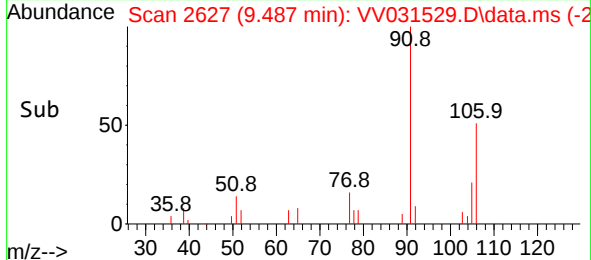
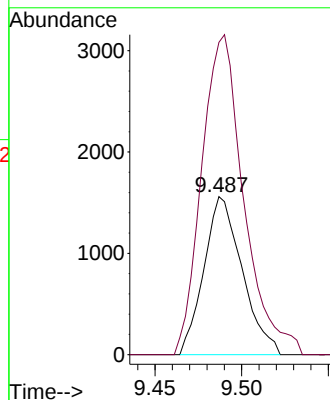
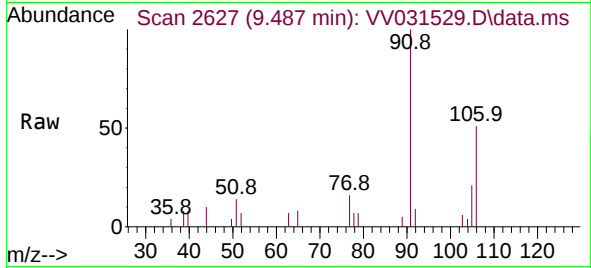




#54
o-Xylene
Concen: 1.004 ug/L
RT: 9.487 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

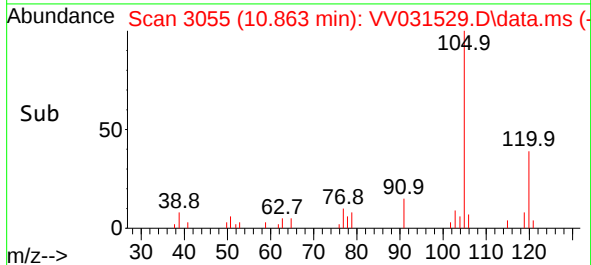
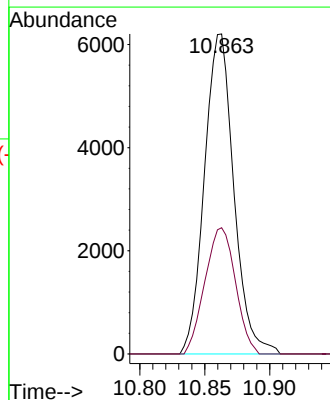
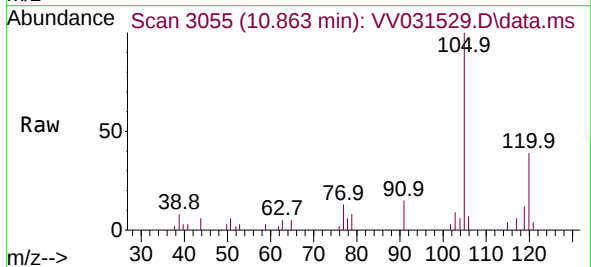
Instrument :
MSVOA_V
ClientSampleId :
EXYS7

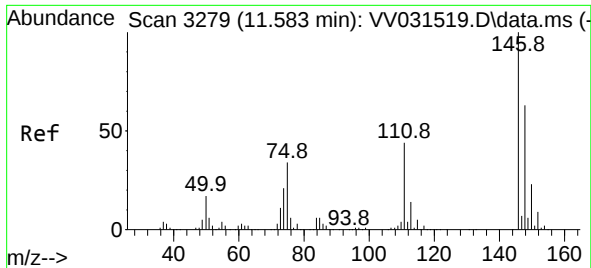
Tgt Ion:106 Resp: 2389
Ion Ratio Lower Upper
106 100
91 197.6 161.3 299.7



#63
1,2,4-Trimethylbenzene
Concen: 2.296 ug/L
RT: 10.863 min Scan# 3055
Delta R.T. 0.006 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

Tgt Ion:105 Resp: 9768
Ion Ratio Lower Upper
105 100
120 40.9 33.4 50.2

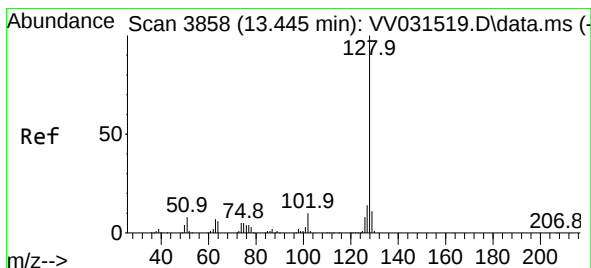
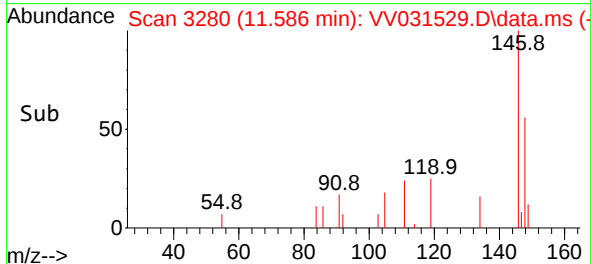
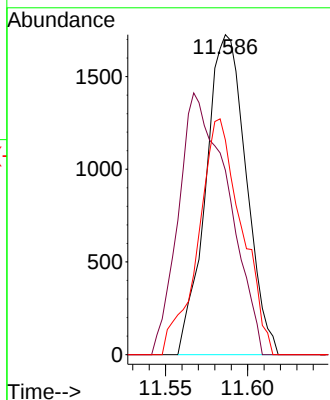
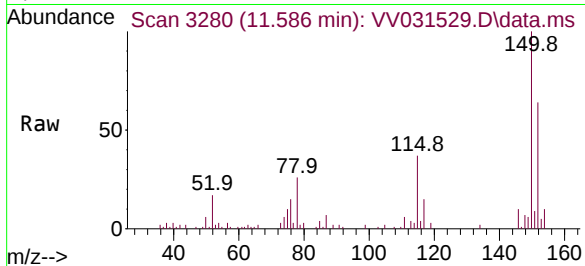




#67
1,2-Dichlorobenzene
Concen: 1.054 ug/L
RT: 11.586 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

Instrument :
MSVOA_V
ClientSampleId :
EXYS7

Tgt Ion:146 Resp: 2948
Ion Ratio Lower Upper
146 100
111 53.1 35.9 53.9
148 61.8 52.6 78.8



#71
Naphthalene
Concen: 1.627 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.006 min
Lab File: VV031529.D
Acq: 15 Jun 2023 14:27

Tgt Ion:128 Resp: 7623
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 9.9 8.6 13.0

