

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120822\
 Data File : VW029505.D
 Acq On : 09 Dec 2022 03:59
 Operator : SY/MD
 Sample : N5928-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ65

Quant Time: Dec 09 06:29:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	506085	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	479122	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	282423	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	131534	42.443	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.880%
7) Chloroethane-d5	1.565	69	89560	37.899	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.800%
11) 1,1-Dichloroethene-d2	2.105	63	154710	32.007	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.020%
21) 2-Butanone-d5	3.870	46	189207	100.083	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.080%
24) Chloroform-d	4.339	84	236753	40.597	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.200%
26) 1,2-Dichloroethane-d4	5.024	65	145322	43.630	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.260%
32) Benzene-d6	5.044	84	496141	39.190	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.380%
36) 1,2-Dichloropropane-d6	6.063	67	161194	41.684	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	83.360%
41) Toluene-d8	7.307	98	451704	37.867	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	75.740%#
43) trans-1,3-Dichloroprop...	7.613	79	64601	33.083	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.160%
47) 2-Hexanone-d5	8.082	63	160335	97.095	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.100%
56) 1,1,2,2-Tetrachloroeth...	10.207	84	242958	43.966	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.940%
66) 1,2-Dichlorobenzene-d4	11.612	152	220228	40.963	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.920%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	3436563	903.728	ug/L	97
8) Chloroethane	1.581	64	1584369	748.249	ug/L	98
12) 1,1-Dichloroethene	2.118	96	37364	13.812	ug/L #	58
13) Acetone	2.159	43	5535	4.494	ug/L	98
16) Methylene chloride	2.503	84	10998	3.270	ug/L	98
17) trans-1,2-Dichloroethene	2.754	96	108938	34.950	ug/L	94
19) 1,1-Dichloroethane	3.182	63	8412043	1575.357	ug/L	98
20) cis-1,2-Dichloroethene	3.899	96	3838001	1119.780	ug/L	95
27) 1,2-Dichloroethane	5.127	62	54072	13.827	ug/L	98
29) Cyclohexane	4.671	56	9838	1.896	ug/L	96
30) 1,1,1-Trichloroethane	4.600	97	1082574	207.389	ug/L	99
31) Carbon tetrachloride	4.600	117	145885	32.004	ug/L	100
33) Benzene	5.095	78	145919	10.805	ug/L	100
34) Trichloroethene	5.908	95	66993	19.796	ug/L	98
35) Methylcyclohexane	6.121	83	15010	2.611	ug/L	94
42) Toluene	7.378	91	1002661	68.978	ug/L	100
44) trans-1,3-Dichloropropene	7.613	75	2986	0.588	ug/L	95
45) 1,1,2-Trichloroethane	7.834	97	11197	3.325	ug/L	95
46) Tetrachloroethene	7.969	164	7307	2.686	ug/L	96

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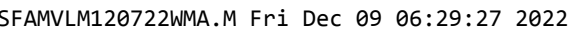
Quant Time: Dec 09 06:29:23 2022
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

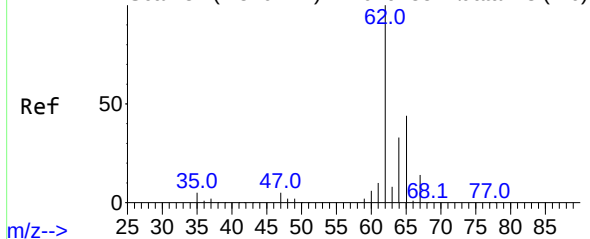
49) Dibromochloromethane	7.969	129	6605	1.777	ug/L #	10
51) Chlorobenzene	8.876	112	28822	3.131	ug/L	97
52) Ethylbenzene	9.005	91	3835742	250.991	ug/L	99
53) m,p-Xylene	9.130	106	3407858	563.414	ug/L	97
54) o-Xylene	9.535	106	1825912	305.181	ug/L	98
55) Styrene	9.535	104	89608	8.618	ug/L #	1
60) Isopropylbenzene	9.921	105	428108	25.818	ug/L	99
62) 1,3,5-Trimethylbenzene	10.529	105	2647550	180.584	ug/L	100
63) 1,2,4-Trimethylbenzene	10.908	105	12246881	842.700	ug/L	94
65) 1,4-Dichlorobenzene	11.262	146	19733	2.395	ug/L	98
67) 1,2-Dichlorobenzene	11.632	146	180744	21.801	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.400	75	2075	1.531	ug/L #	1
71) Naphthalene	13.490	128	630888	48.478	ug/L	99

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

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Abundance Scan 84 (1.310 min): VV029485.D\data.ms (-76)



#5

Vinyl chloride

Concen: 903.728 ug/L

RT: 1.307 min Scan# 84

Delta R.T. 0.000 min

Lab File: VV029505.D

Acq: 09 Dec 2022 03:59

Instrument :

MSVOA_V

ClientSampleId :

EXZ65

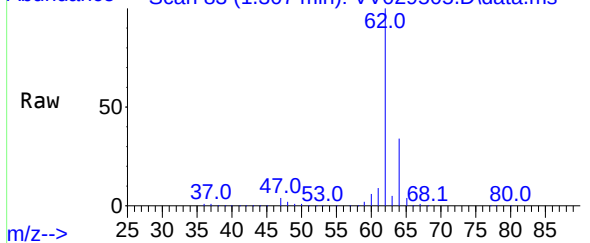
Tgt Ion: 62 Resp: 3436563

Ion Ratio Lower Upper

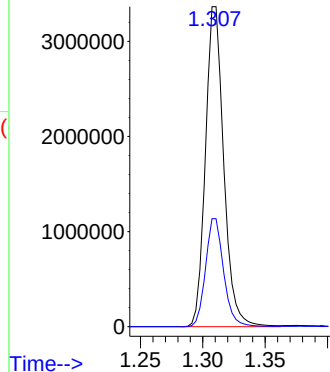
62 100

64 33.7 22.5 41.9

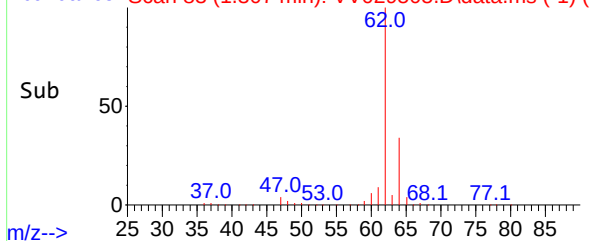
Abundance Scan 83 (1.307 min): VV029505.D\data.ms



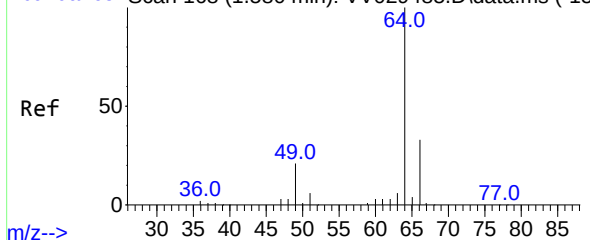
Abundance



Abundance Scan 83 (1.307 min): VV029505.D\data.ms (-1)



Abundance Scan 168 (1.580 min): VV029485.D\data.ms (-15)



#8

Chloroethane

Concen: 748.249 ug/L

RT: 1.581 min Scan# 168

Delta R.T. 0.000 min

Lab File: VV029505.D

Acq: 09 Dec 2022 03:59

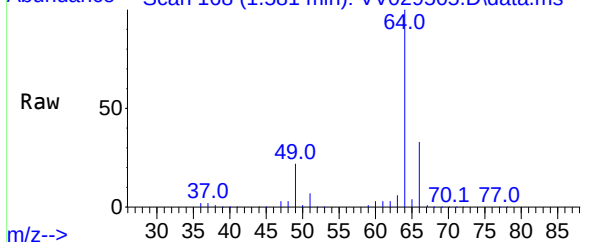
Tgt Ion: 64 Resp: 1584369

Ion Ratio Lower Upper

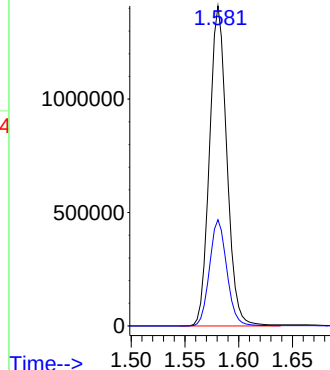
64 100

66 33.2 22.5 41.9

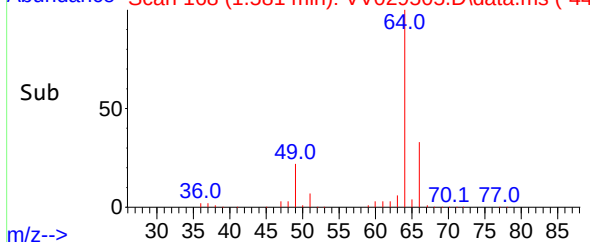
Abundance Scan 168 (1.581 min): VV029505.D\data.ms

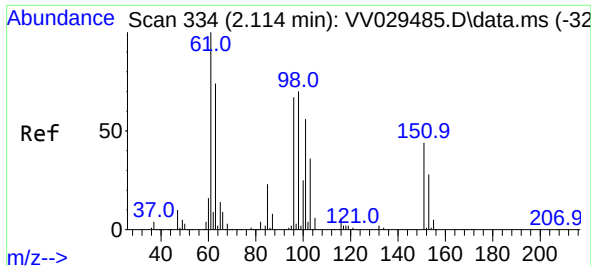


Abundance



Abundance Scan 168 (1.581 min): VV029505.D\data.ms (-44)

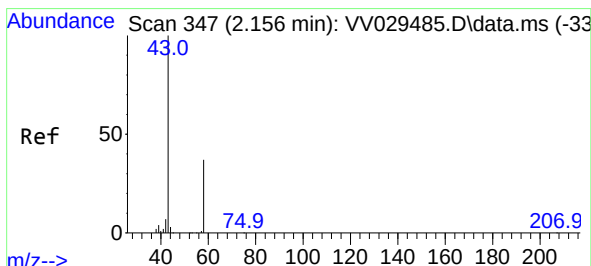
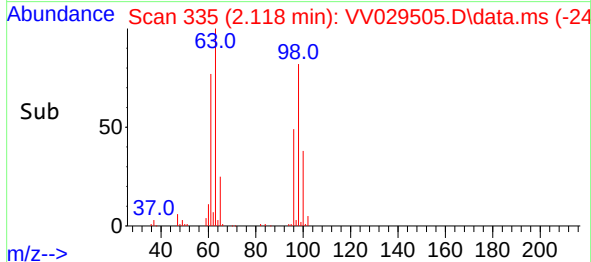
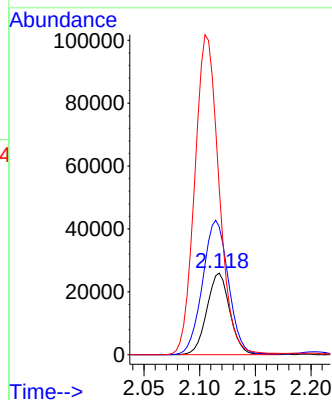
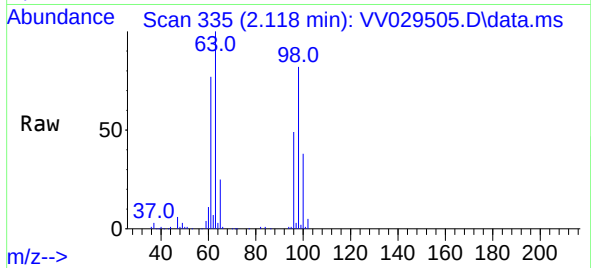




#12
1,1-Dichloroethene
Concen: 13.812 ug/L
RT: 2.118 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

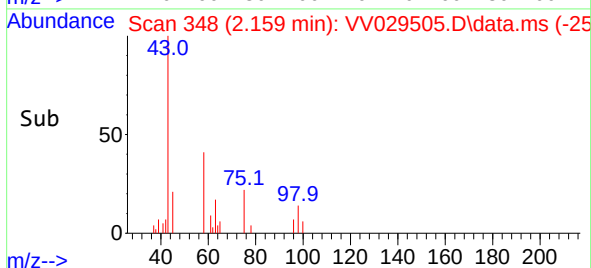
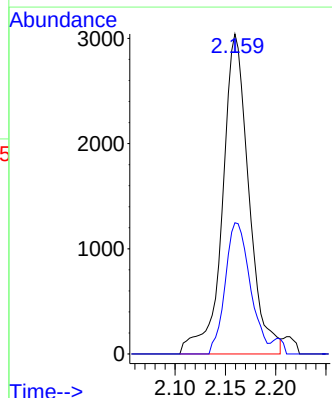
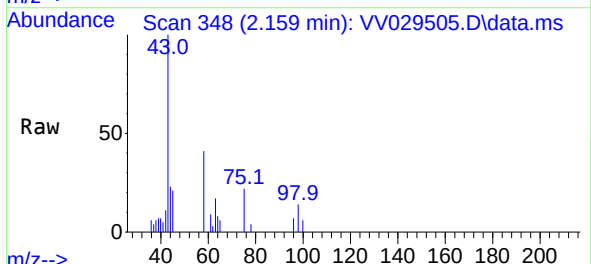
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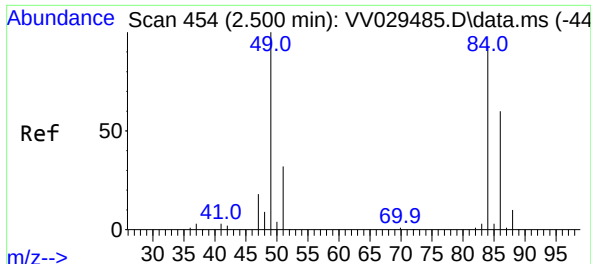
Tgt Ion: 96 Resp: 37364
Ion Ratio Lower Upper
96 100
61 156.7 103.3 191.9
63 204.1 77.3 143.7#



#13
Acetone
Concen: 4.494 ug/L
RT: 2.159 min Scan# 348
Delta R.T. 0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 43 Resp: 5535
Ion Ratio Lower Upper
43 100
58 38.6 0.0 74.8

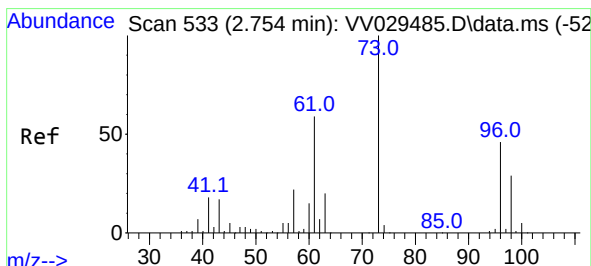
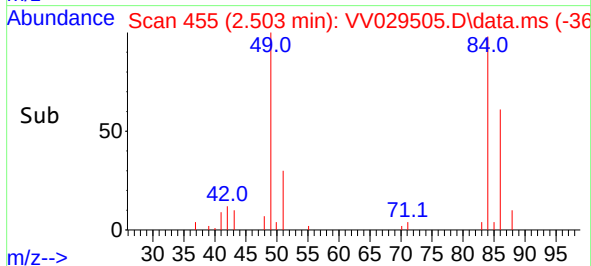
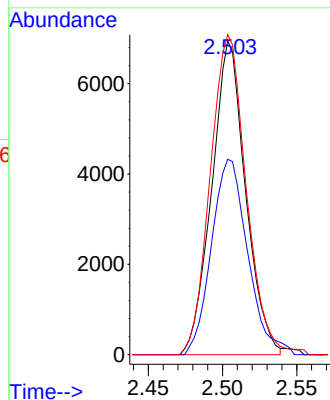
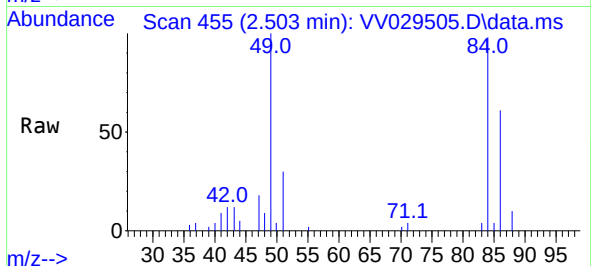




#16
Methylene chloride
Concen: 3.270 ug/L
RT: 2.503 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

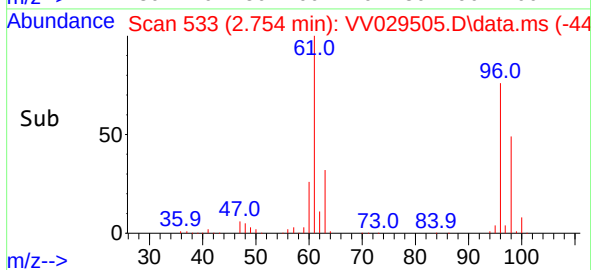
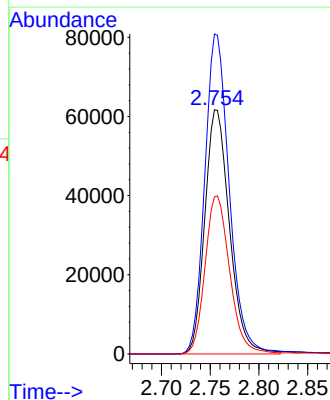
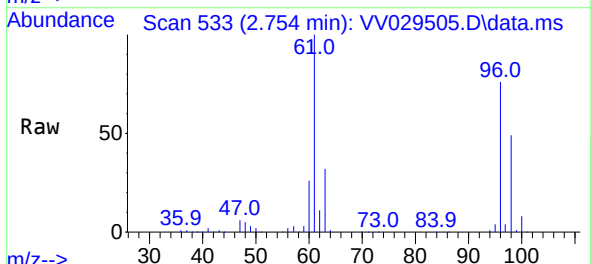
Instrument :
MSVOA_V
ClientSampleId :
EXZ65

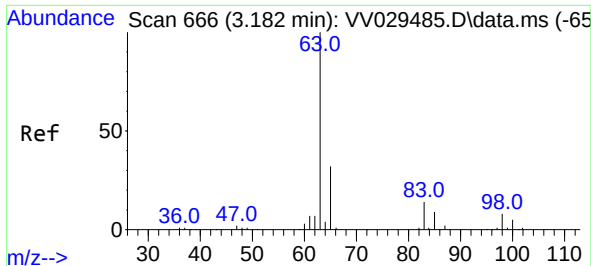
Tgt Ion: 84 Resp: 10998
Ion Ratio Lower Upper
84 100
86 62.3 46.0 85.4
49 102.0 72.2 134.0



#17
trans-1,2-Dichloroethene
Concen: 34.950 ug/L
RT: 2.754 min Scan# 533
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 96 Resp: 108938
Ion Ratio Lower Upper
96 100
61 131.0 86.4 160.4
98 64.3 43.4 80.6



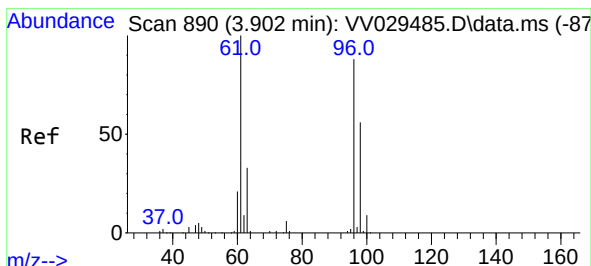
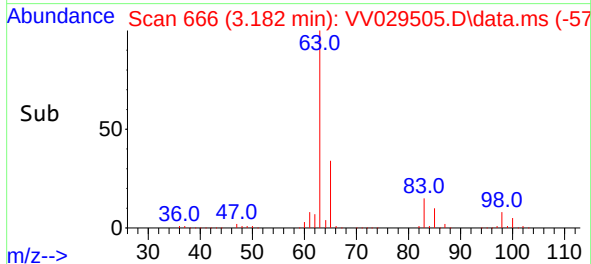
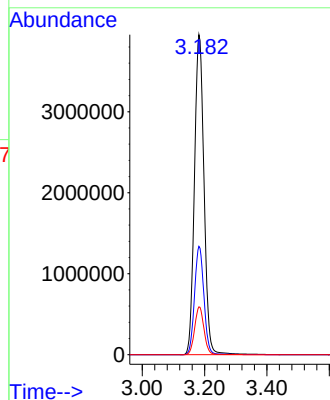
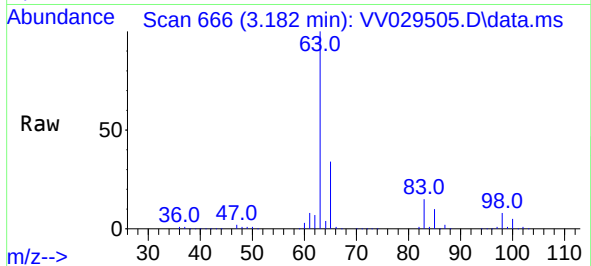


#19
1,1-Dichloroethane
Concen: 1575.357 ug/L
RT: 3.182 min Scan# 611
Delta R.T. -0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Instrument :
MSVOA_V
ClientSampleId :
EXZ65

Tgt Ion: 63 Resp: 8412043

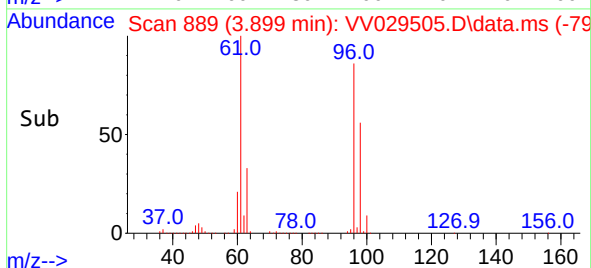
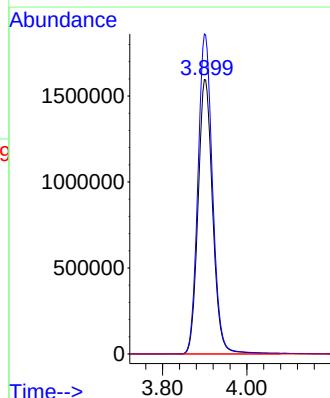
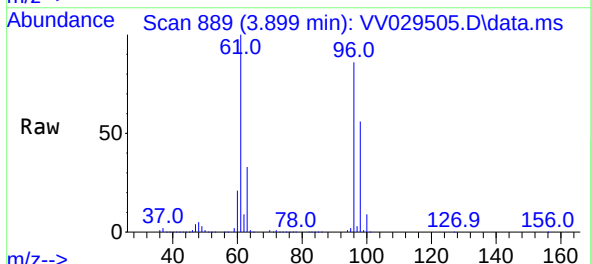
Ion	Ratio	Lower	Upper
63	100		
65	33.9	22.5	41.7
83	15.0	10.4	19.2

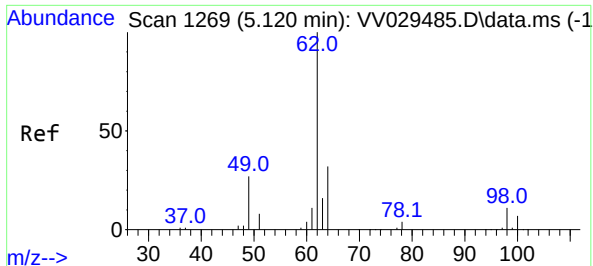


#20
cis-1,2-Dichloroethene
Concen: 1119.780 ug/L
RT: 3.899 min Scan# 889
Delta R.T. -0.006 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 96 Resp: 3838001

Ion	Ratio	Lower	Upper
96	100		
61	116.6	78.0	144.9
68	0.0	0.0	0.0





#27

1,2-Dichloroethane

Concen: 13.827 ug/L

RT: 5.127 min Scan# 1127

Delta R.T. 0.003 min

Lab File: VV029505.D

Acq: 09 Dec 2022 03:59

Instrument :

MSVOA_V

ClientSampleId :

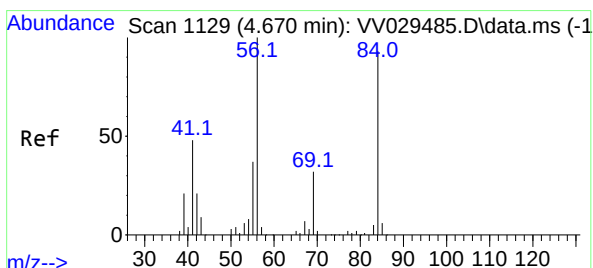
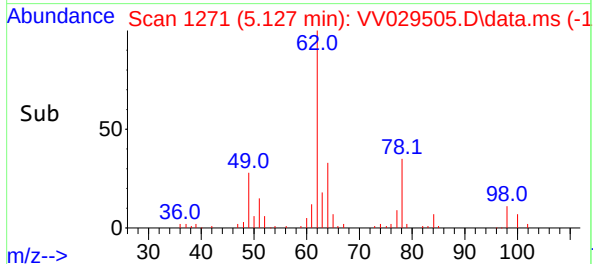
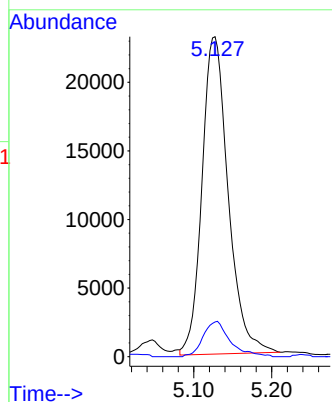
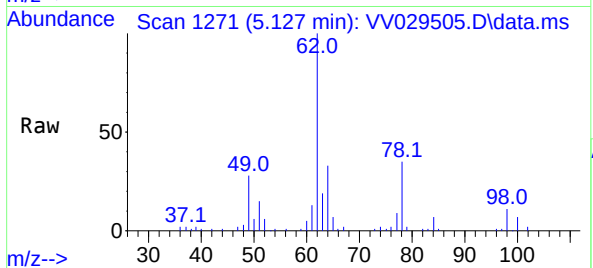
EXZ65

Tgt Ion: 62 Resp: 54072

Ion Ratio Lower Upper

62 100

98 10.9 9.4 14.0



#29

Cyclohexane

Concen: 1.896 ug/L

RT: 4.671 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VV029505.D

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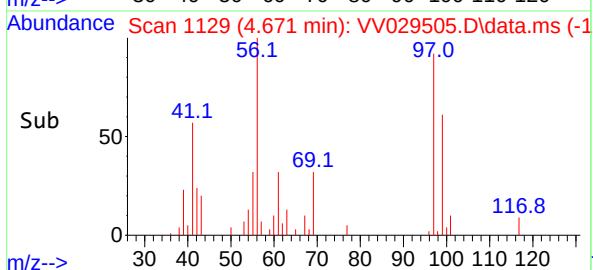
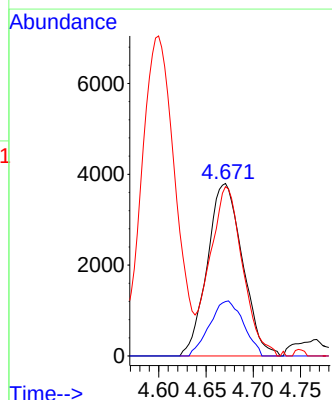
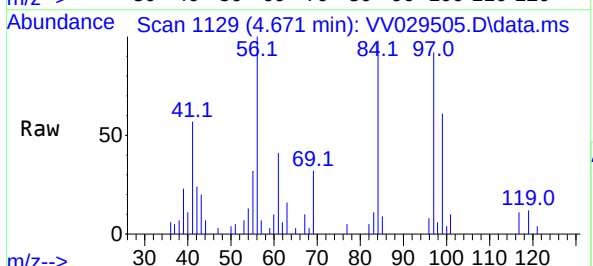
Tgt Ion: 56 Resp: 9838

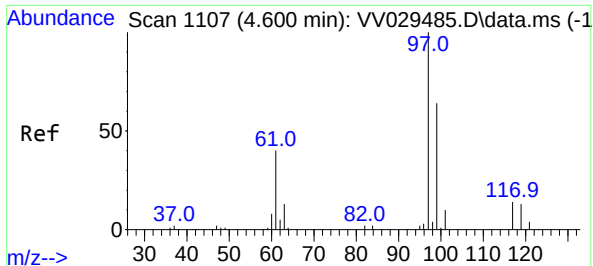
Ion Ratio Lower Upper

56 100

69 30.6 25.8 38.8

84 91.2 76.6 114.8

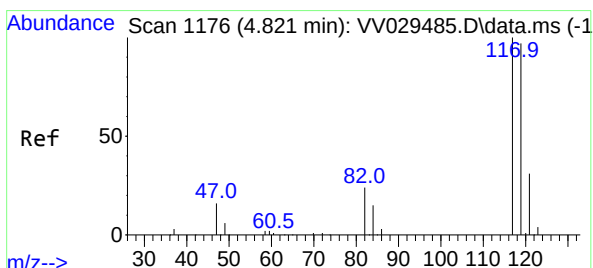
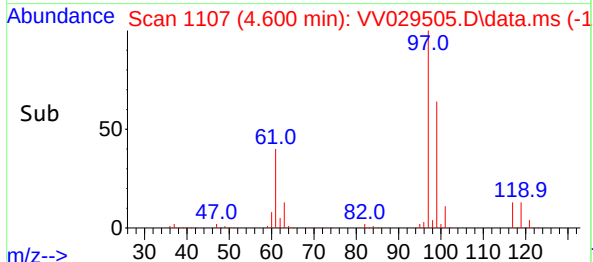
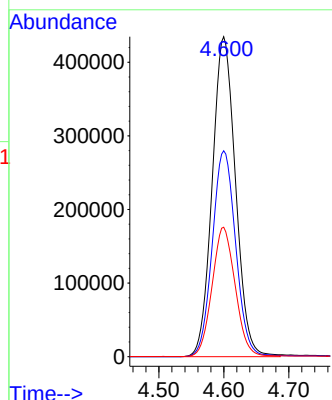
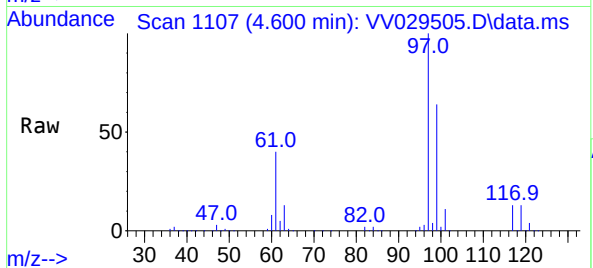




#30
1,1,1-Trichloroethane
Concen: 207.389 ug/L
RT: 4.600 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

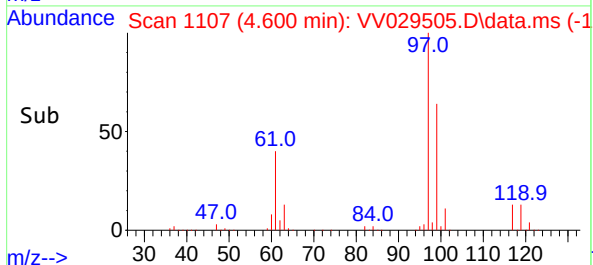
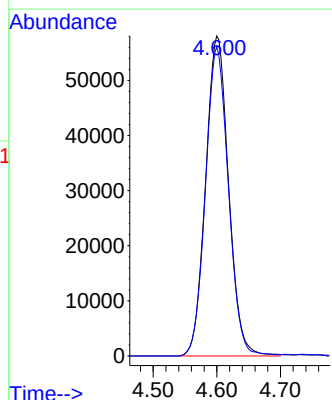
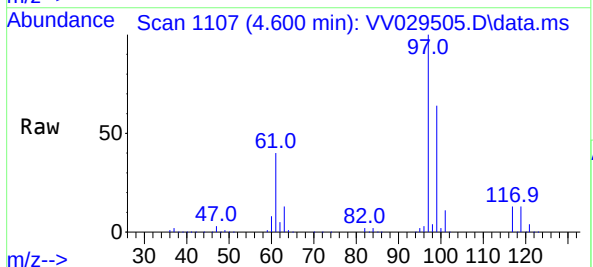
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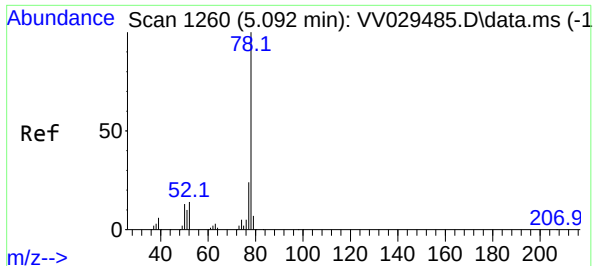
Tgt Ion: 97 Resp: 1082574
Ion Ratio Lower Upper
97 100
99 64.7 52.1 78.1
61 40.1 31.8 47.8



#31
Carbon tetrachloride
Concen: 32.004 ug/L
RT: 4.600 min Scan# 1107
Delta R.T. -0.222 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 117 Resp: 145885
Ion Ratio Lower Upper
117 100
119 96.1 76.7 115.1

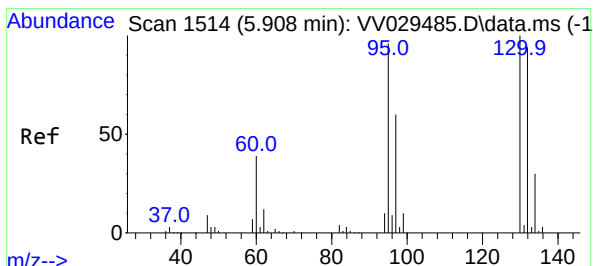
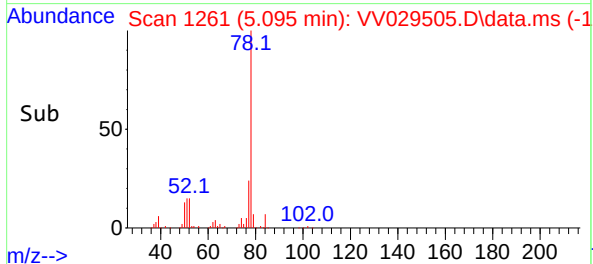
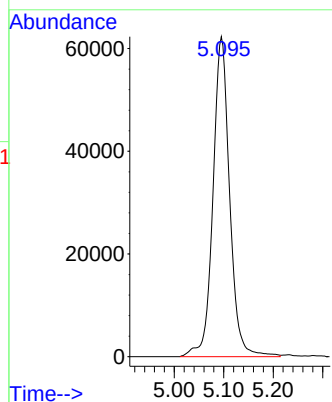
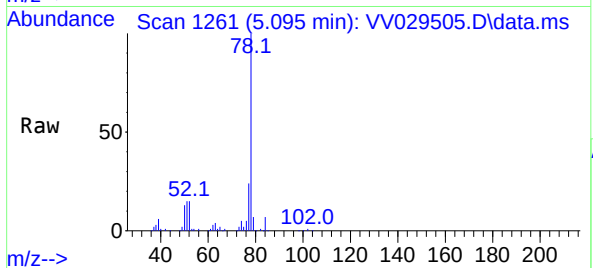




#33
Benzene
Concen: 10.805 ug/L
RT: 5.095 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

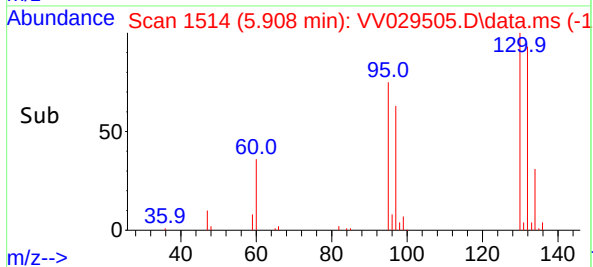
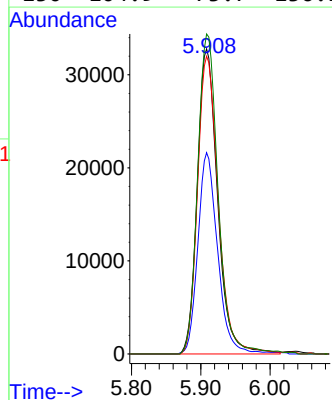
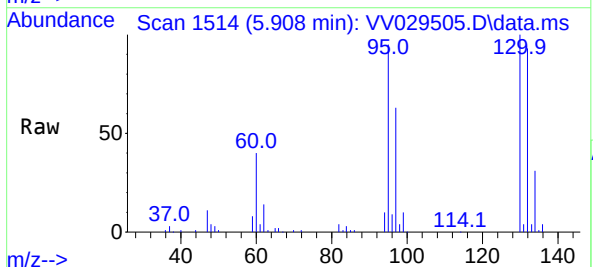
Instrument :
MSVOA_V
ClientSampleId :
EXZ65

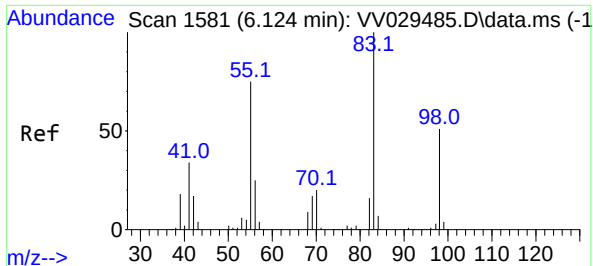
Tgt Ion: 78 Resp: 145919



#34
Trichloroethene
Concen: 19.796 ug/L
RT: 5.908 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 95 Resp: 66993
Ion Ratio Lower Upper
95 100
97 66.0 44.0 81.8
132 97.6 69.9 129.9
130 104.9 73.7 136.9





#35

Methylcyclohexane

Concen: 2.611 ug/L

RT: 6.121 min Scan# 1

Delta R.T. -0.006 min

Lab File: VV029505.D

Acq: 09 Dec 2022 03:59

Instrument :

MSVOA_V

ClientSampleId :

EXZ65

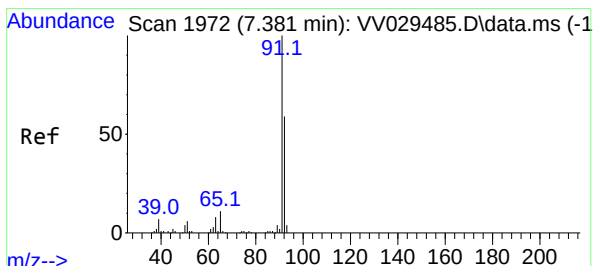
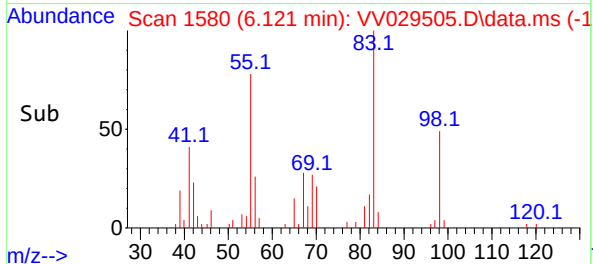
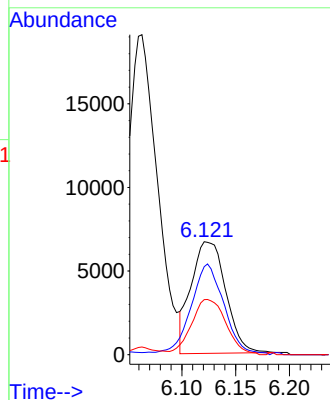
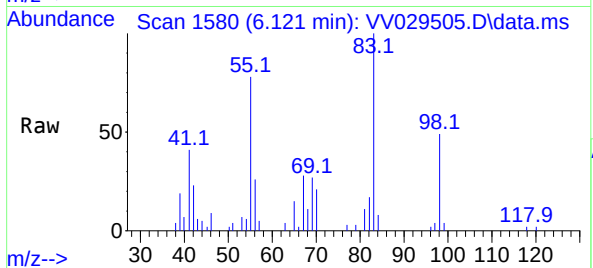
Tgt Ion: 83 Resp: 15010

Ion Ratio Lower Upper

83 100

55 77.6 55.5 83.3

98 49.3 39.8 59.8



#42

Toluene

Concen: 68.978 ug/L

RT: 7.378 min Scan# 1971

Delta R.T. -0.003 min

Lab File: VV029505.D

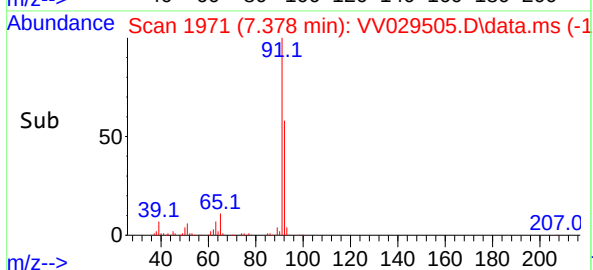
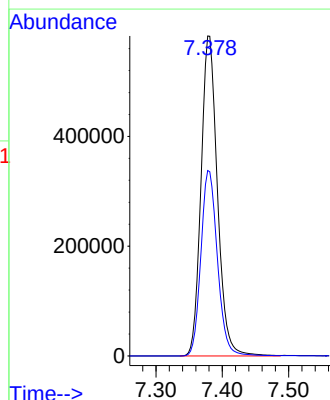
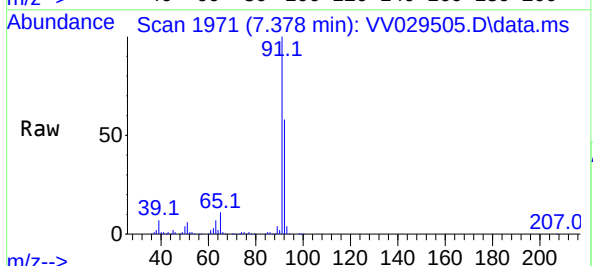
Acq: 09 Dec 2022 03:59

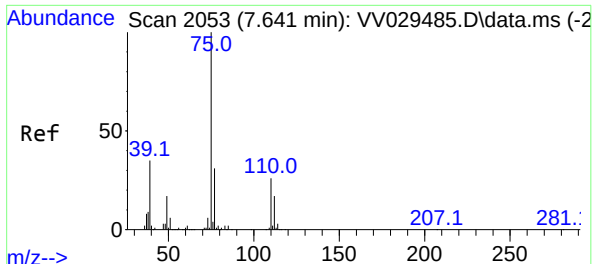
Tgt Ion: 91 Resp: 1002661

Ion Ratio Lower Upper

91 100

92 57.9 40.6 75.4

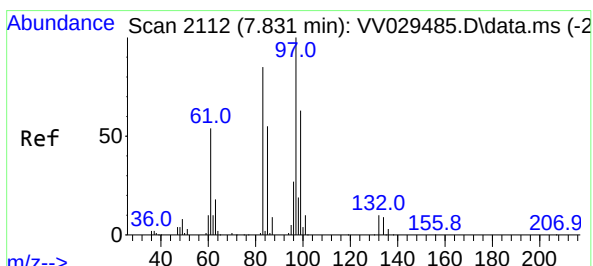
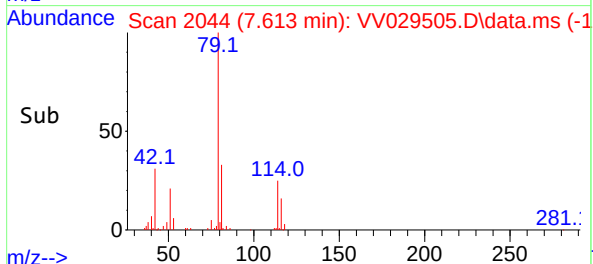
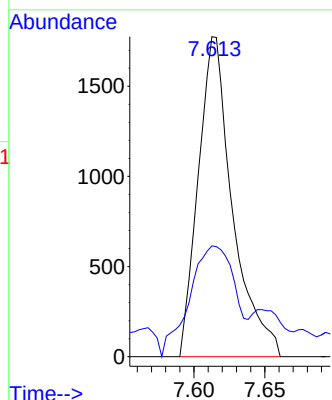
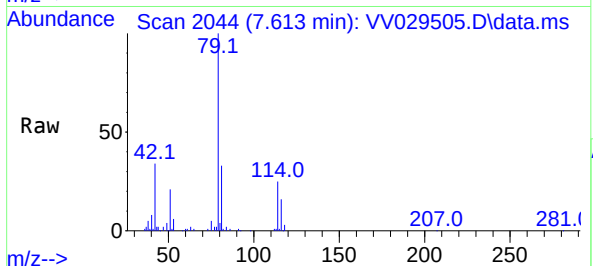




#44
trans-1,3-Dichloropropene
Concen: 0.588 ug/L
RT: 7.613 min Scan# 2053
Delta R.T. -0.032 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

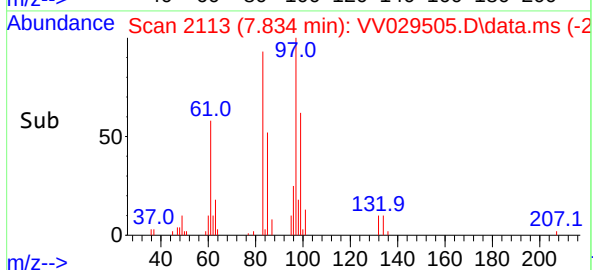
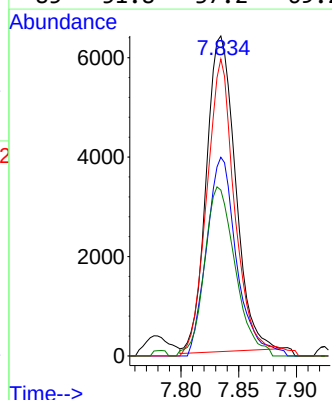
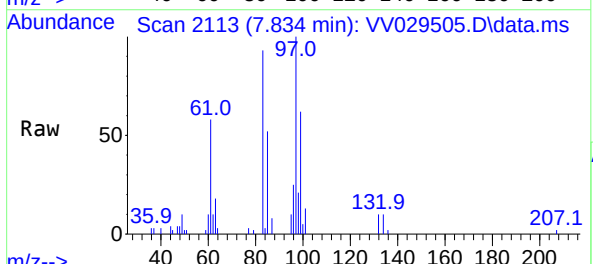
Instrument :
MSVOA_V
ClientSampleId :
EXZ65

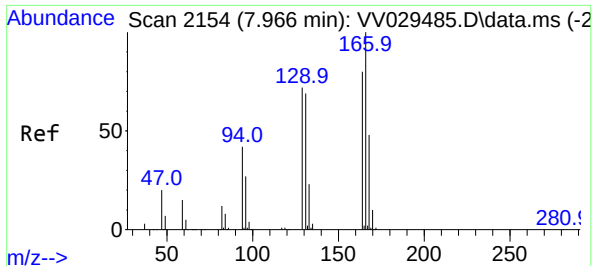
Tgt Ion: 75 Resp: 2986
Ion Ratio Lower Upper
75 100
77 34.6 22.3 41.5



#45
1,1,2-Trichloroethane
Concen: 3.325 ug/L
RT: 7.834 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 97 Resp: 11197
Ion Ratio Lower Upper
97 100
99 62.1 43.8 81.3
83 92.8 58.6 108.8
85 51.8 37.2 69.2





#46

Tetrachloroethene

Concen: 2.686 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. 0.000 min

Lab File: VV029505.D

Acq: 09 Dec 2022 03:59

Instrument :

MSVOA_V

ClientSampleId :

EXZ65

Tgt Ion:164 Resp: 7307

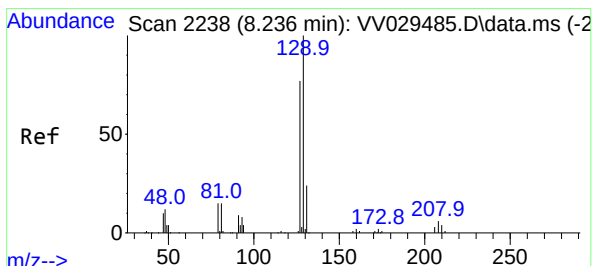
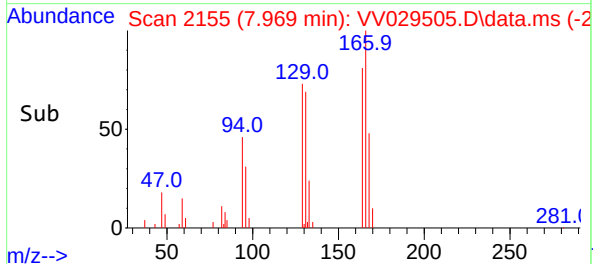
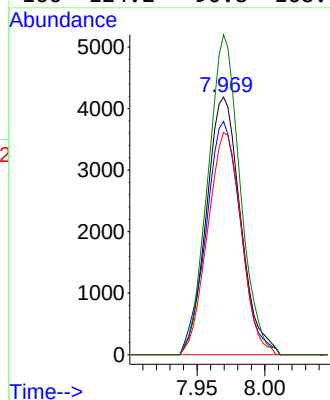
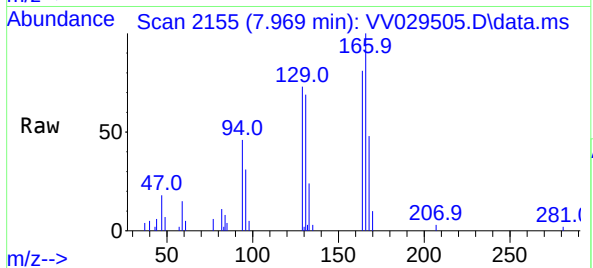
Ion Ratio Lower Upper

164 100

129 90.6 65.3 121.3

131 86.2 63.1 117.1

166 124.2 90.8 168.6



#49

Dibromochloromethane

Concen: 1.777 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. -0.267 min

Lab File: VV029505.D

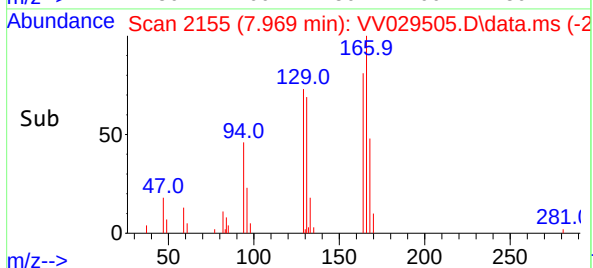
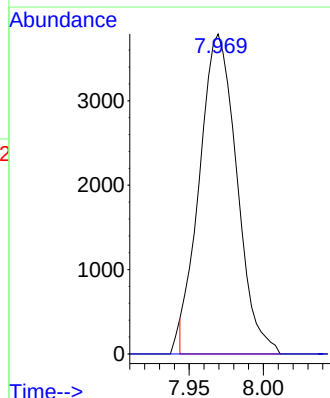
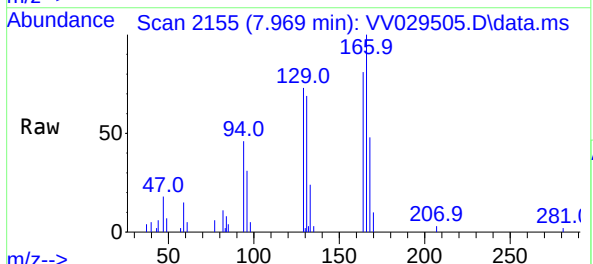
Acq: 09 Dec 2022 03:59

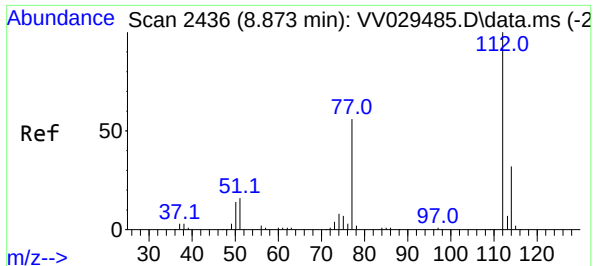
Tgt Ion:129 Resp: 6605

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.4#

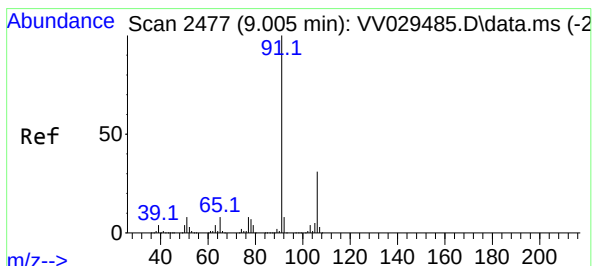
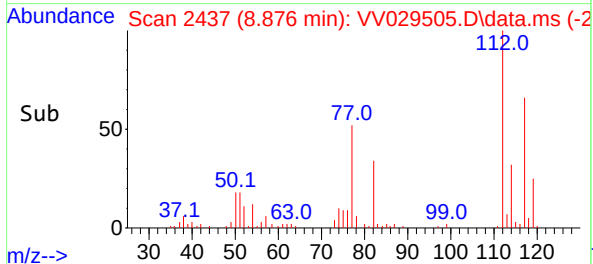
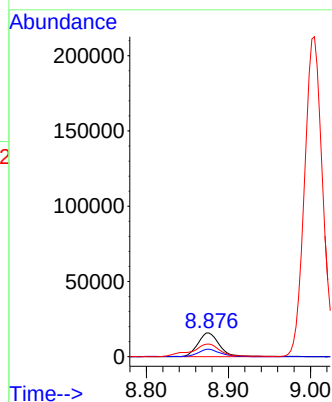
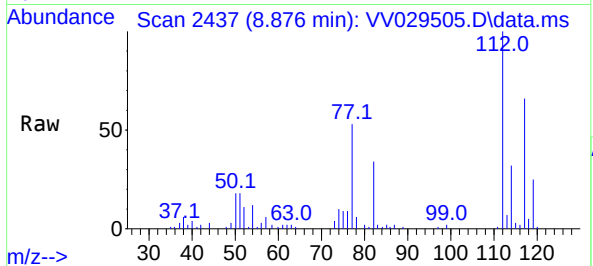




#51
Chlorobenzene
Concen: 3.131 ug/L
RT: 8.876 min Scan# 2436
Delta R.T. 0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

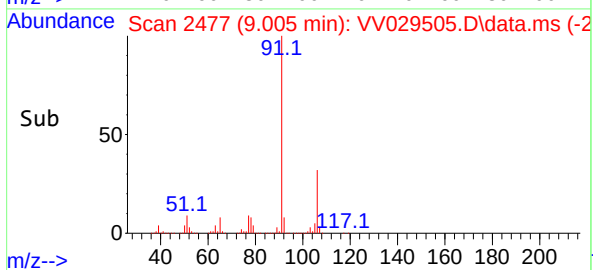
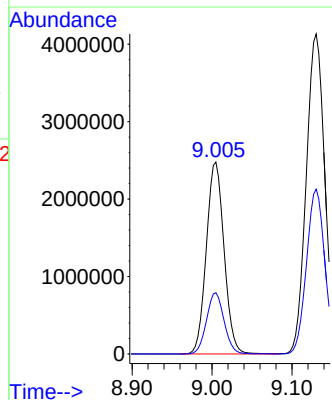
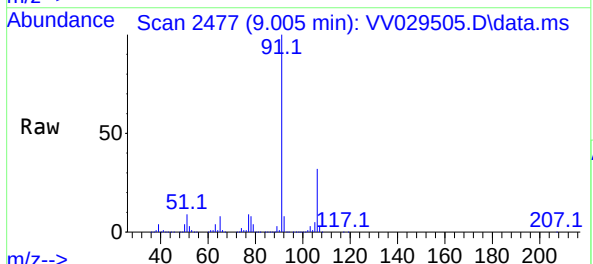
Instrument :
MSVOA_V
ClientSampleId :
EXZ65

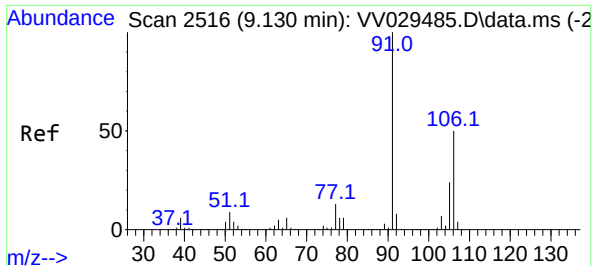
Tgt Ion:112 Resp: 28822
Ion Ratio Lower Upper
112 100
114 32.1 22.3 41.3
77 53.2 45.0 67.4



#52
Ethylbenzene
Concen: 250.991 ug/L
RT: 9.005 min Scan# 2477
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 91 Resp: 3835742
Ion Ratio Lower Upper
91 100
106 31.9 21.8 40.6

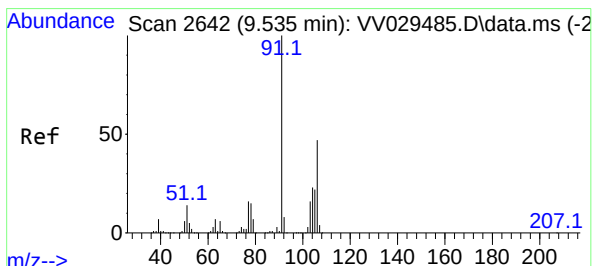
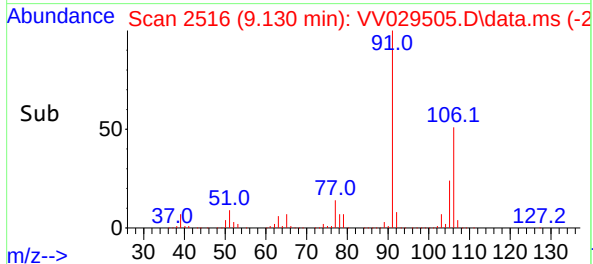
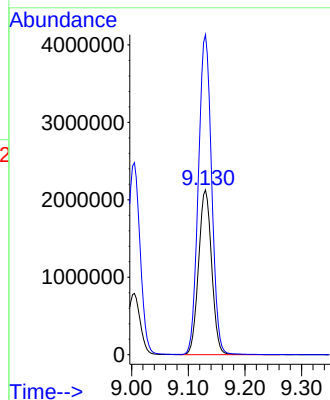
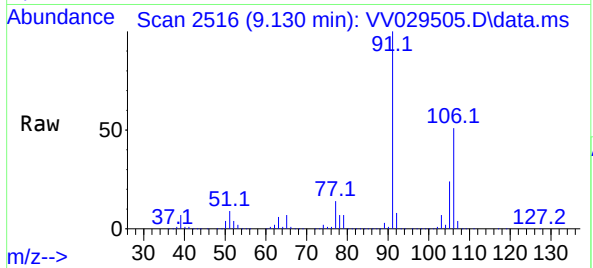




#53
m,p-Xylene
Concen: 563.414 ug/L
RT: 9.130 min Scan# 2516
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

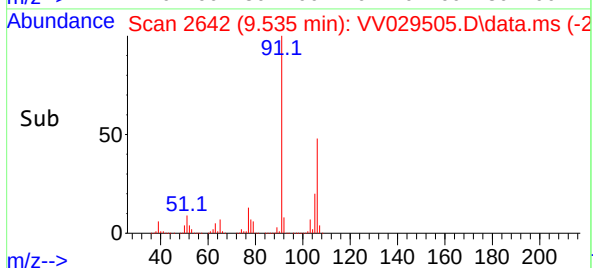
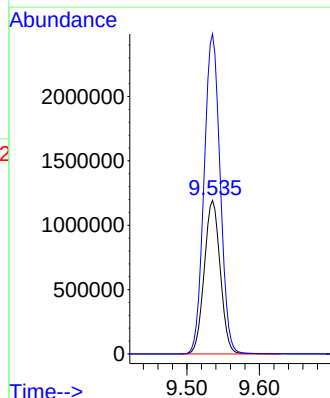
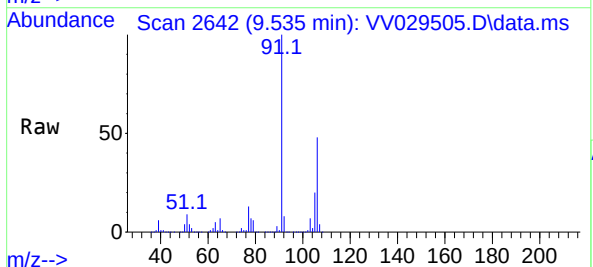
Instrument :
MSVOA_V
ClientSampleId :
EXZ65

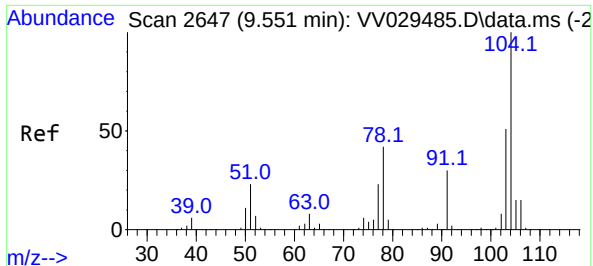
Tgt Ion:106 Resp: 3407858
Ion Ratio Lower Upper
106 100
91 194.2 139.5 259.1



#54
o-Xylene
Concen: 305.181 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion:106 Resp: 1825912
Ion Ratio Lower Upper
106 100
91 208.3 148.0 274.8

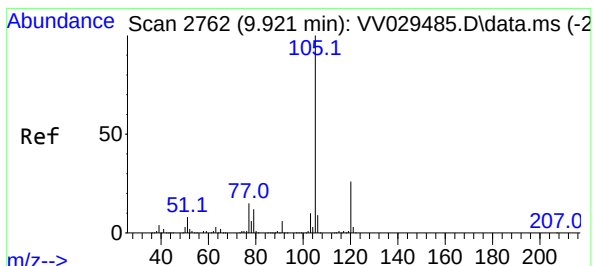
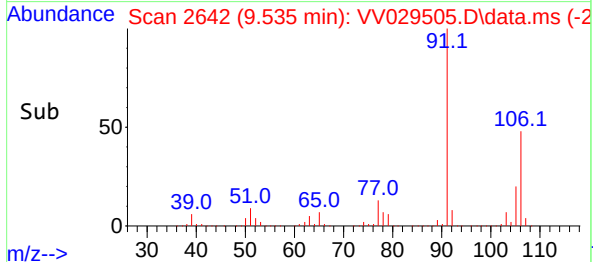
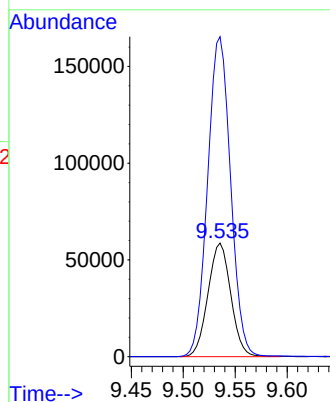
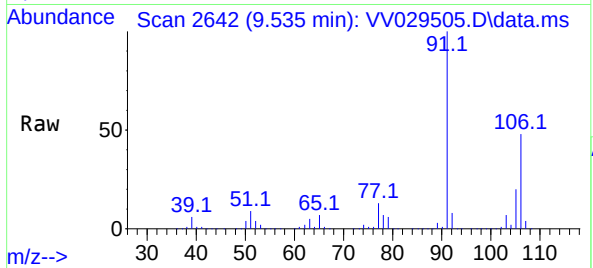




#55
Styrene
Concen: 8.618 ug/L
RT: 9.535 min Scan# 210
Delta R.T. -0.016 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

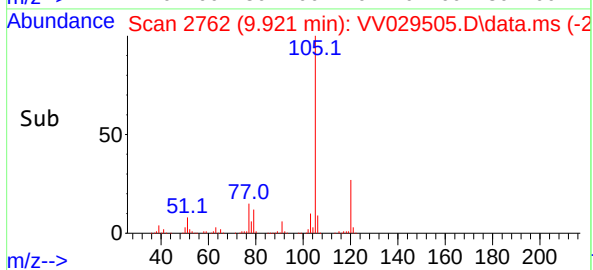
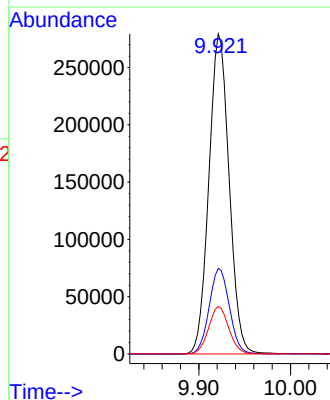
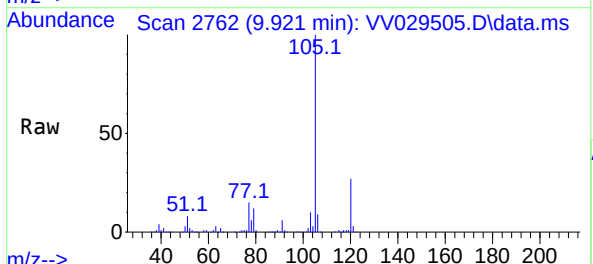
Instrument : MSVOA_V
ClientSampleId : EXZ65

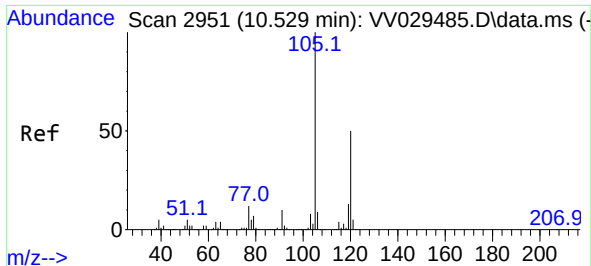
Tgt Ion:104 Resp: 89608
Ion Ratio Lower Upper
104 100
78 281.6 29.4 54.6#



#60
Isopropylbenzene
Concen: 25.818 ug/L
RT: 9.921 min Scan# 2762
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion:105 Resp: 428108
Ion Ratio Lower Upper
105 100
120 26.7 21.1 31.7
77 14.9 11.6 17.4

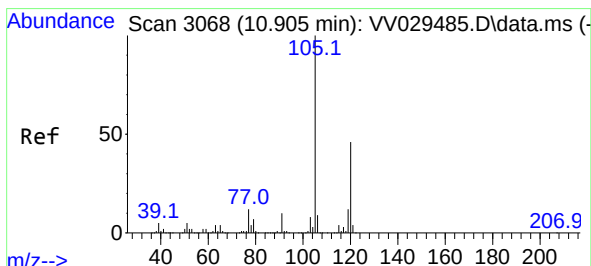
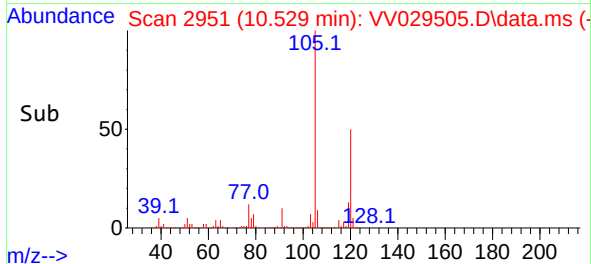
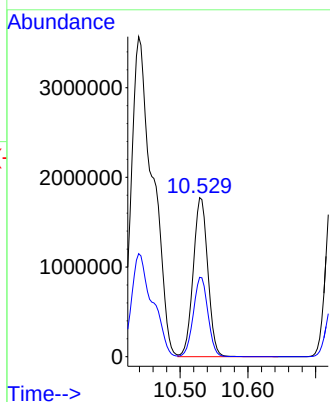
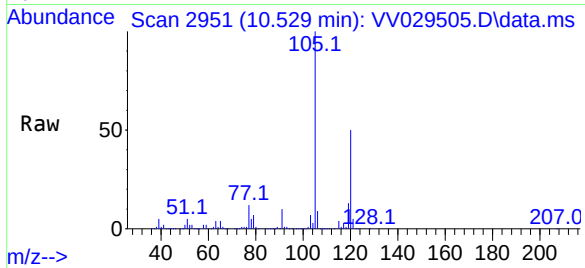




#62
 1,3,5-Trimethylbenzene
 Concen: 180.584 ug/L
 RT: 10.529 min Scan# 2951
 Delta R.T. 0.000 min
 Lab File: VV029505.D
 Acq: 09 Dec 2022 03:59

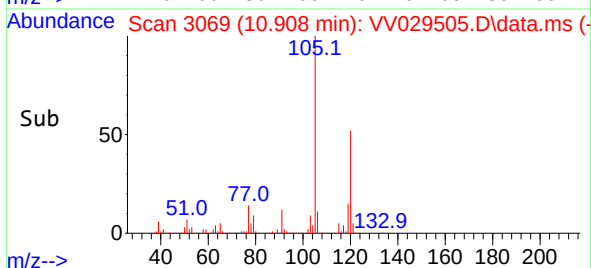
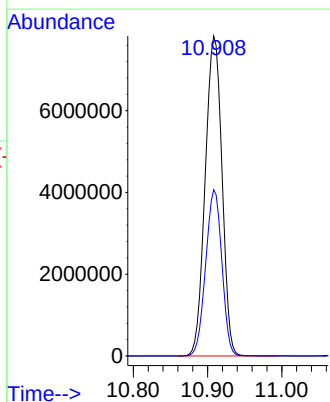
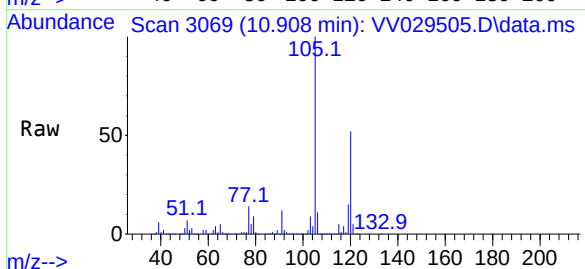
Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ65

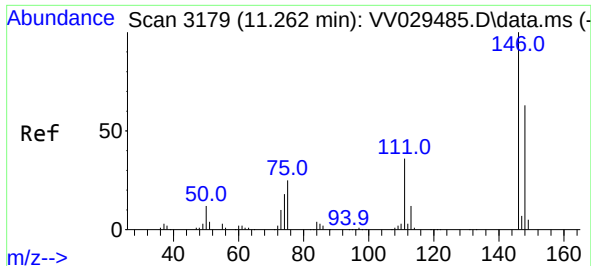
Tgt Ion:105 Resp: 2647550
 Ion Ratio Lower Upper
 105 100
 120 49.9 40.0 60.0



#63
 1,2,4-Trimethylbenzene
 Concen: 842.700 ug/L
 RT: 10.908 min Scan# 3069
 Delta R.T. 0.003 min
 Lab File: VV029505.D
 Acq: 09 Dec 2022 03:59

Tgt Ion:105 Resp:12246881
 Ion Ratio Lower Upper
 105 100
 120 50.1 36.7 55.1

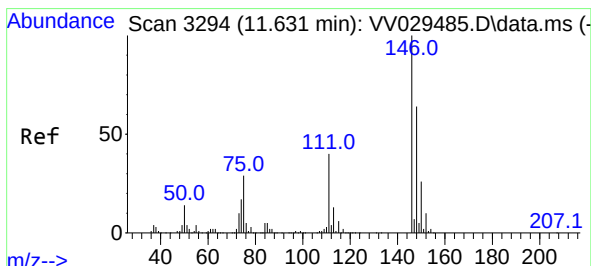
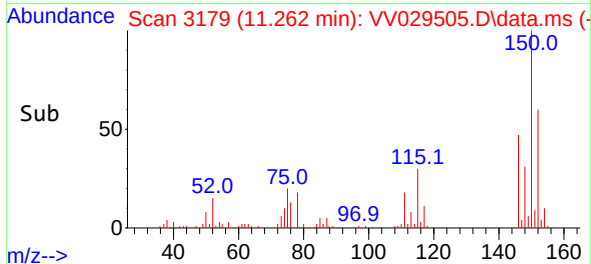
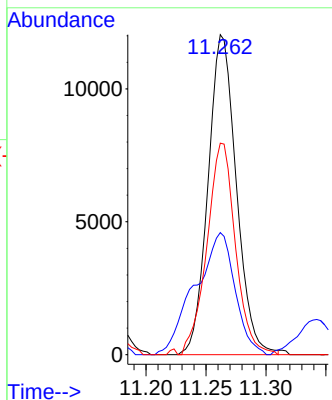
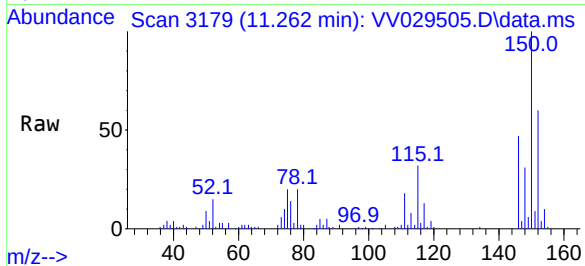




#65
1,4-Dichlorobenzene
Concen: 2.395 ug/L
RT: 11.262 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

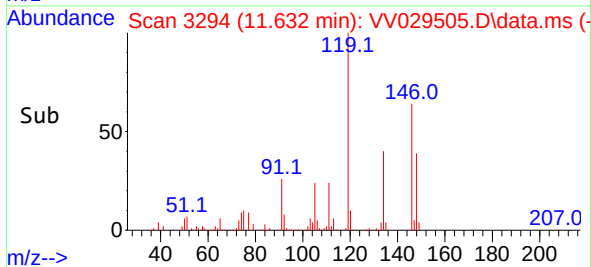
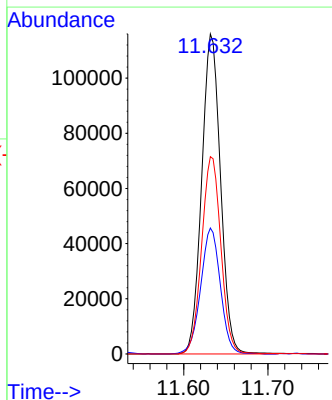
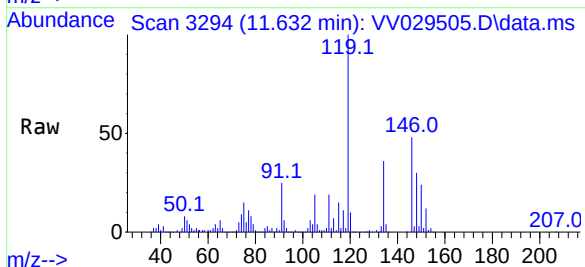
Instrument :
MSVOA_V
ClientSampleId :
EXZ65

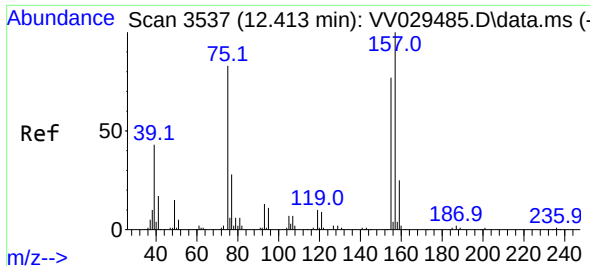
Tgt Ion:146 Resp: 19733
Ion Ratio Lower Upper
146 100
111 38.2 26.2 48.8
148 66.1 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 21.801 ug/L
RT: 11.632 min Scan# 3294
Delta R.T. 0.000 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion:146 Resp: 180744
Ion Ratio Lower Upper
146 100
111 39.4 32.0 48.0
148 61.7 50.6 76.0

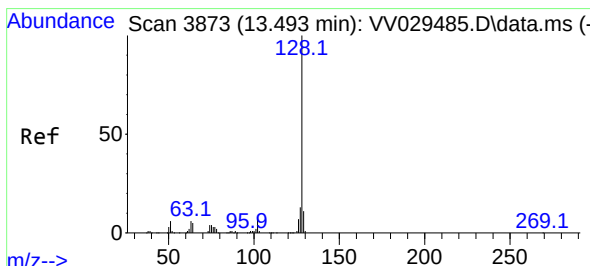
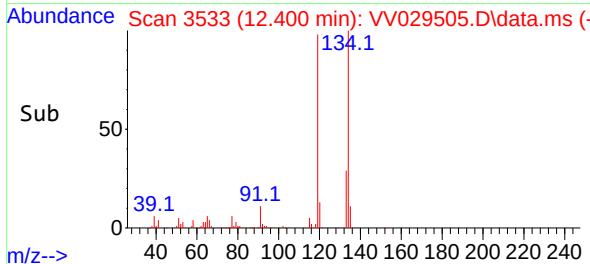
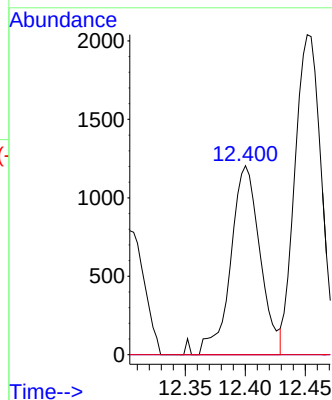
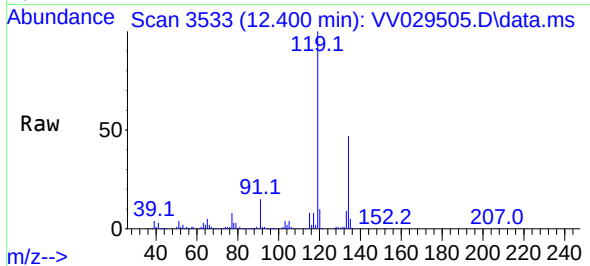




#68
1,2-Dibromo-3-chloropropane
Concen: 1.531 ug/L
RT: 12.400 min Scan# 31
Delta R.T. -0.016 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Instrument :
MSVOA_V
ClientSampleId :
EXZ65

Tgt Ion: 75 Resp: 2075
Ion Ratio Lower Upper
75 100
155 0.0 76.2 114.2#
157 0.0 96.0 144.0#



#71
Naphthalene
Concen: 48.478 ug/L
RT: 13.490 min Scan# 3872
Delta R.T. -0.003 min
Lab File: VV029505.D
Acq: 09 Dec 2022 03:59

Tgt Ion: 128 Resp: 630888
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 10.9 8.5 12.7

