

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW122821\
 Data File : VW024211.D
 Acq On : 28 Dec 2021 12:25
 Operator : SY/MD
 Sample : M5233-11DL 20X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 29 05:04:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR122721WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 29 04:43:10 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	81970	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	83670	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	48701	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	26962	4.373	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.400%
7) Chloroethane-d5	1.568	69	25392	4.938	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.800%
11) 1,1-Dichloroethene-d2	2.108	63	42282	2.822	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.400%#
20) 2-Butanone-d5	3.918	46	34882	50.933	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.860%
24) Chloroform-d	4.349	84	61188	4.675	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
26) 1,2-Dichloroethane-d4	5.034	65	30283	5.169	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.400%
32) Benzene-d6	5.050	84	115579	5.115	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
36) 1,2-Dichloropropane-d6	6.072	67	32187	5.200	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.000%
41) Toluene-d8	7.317	98	105596	4.742	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.800%
43) trans-1,3-Dichloroprop...	7.625	79	12236	4.669	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.400%
46) 2-Hexanone-d5	8.091	63	50813	57.664	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.320%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	23385	5.534	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.600%
66) 1,2-Dichlorobenzene-d4	11.625	152	47747	5.640	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	64539	4.508	ug/L #	79
5) Vinyl chloride	1.310	62	598	0.041	ug/L #	11
8) Chloroethane	1.584	64	291678	34.237	ug/L	96
15) Methyl Acetate	2.439	43	900	0.373	ug/L #	50
17) Methyl tert-butyl Ether	2.773	73	1490	0.065	ug/L #	1
19) 1,1-Dichloroethane	3.191	63	2896	0.146	ug/L	97
21) 2-Butanone	3.822	43	8859	6.927	ug/L #	54
27) 1,2-Dichloroethane	5.098	62	3866	0.311	ug/L #	73
30) Cyclohexane	4.677	56	6310	0.402	ug/L	96
33) Benzene	5.098	78	430451	9.806	ug/L	100
35) Methylcyclohexane	6.133	83	4325	0.241	ug/L	99
37) 1,2-Dichloropropane	6.069	63	4607	0.455	ug/L #	84
38) Bromodichloromethane	6.561	83	1096	0.076	ug/L #	27
42) Toluene	7.387	91	108611	2.217	ug/L	96
45) 1,1,2-Trichloroethane	7.699	97	18856	2.513	ug/L #	20
48) 2-Hexanone	8.146	43	2973	0.840	ug/L #	76
51) Chlorobenzene	8.886	112	9161	0.282	ug/L	98
52) Ethylbenzene	9.011	91	216142	4.150	ug/L	99
53) m,p-xylene	9.136	106	106144	5.138	ug/L	98

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

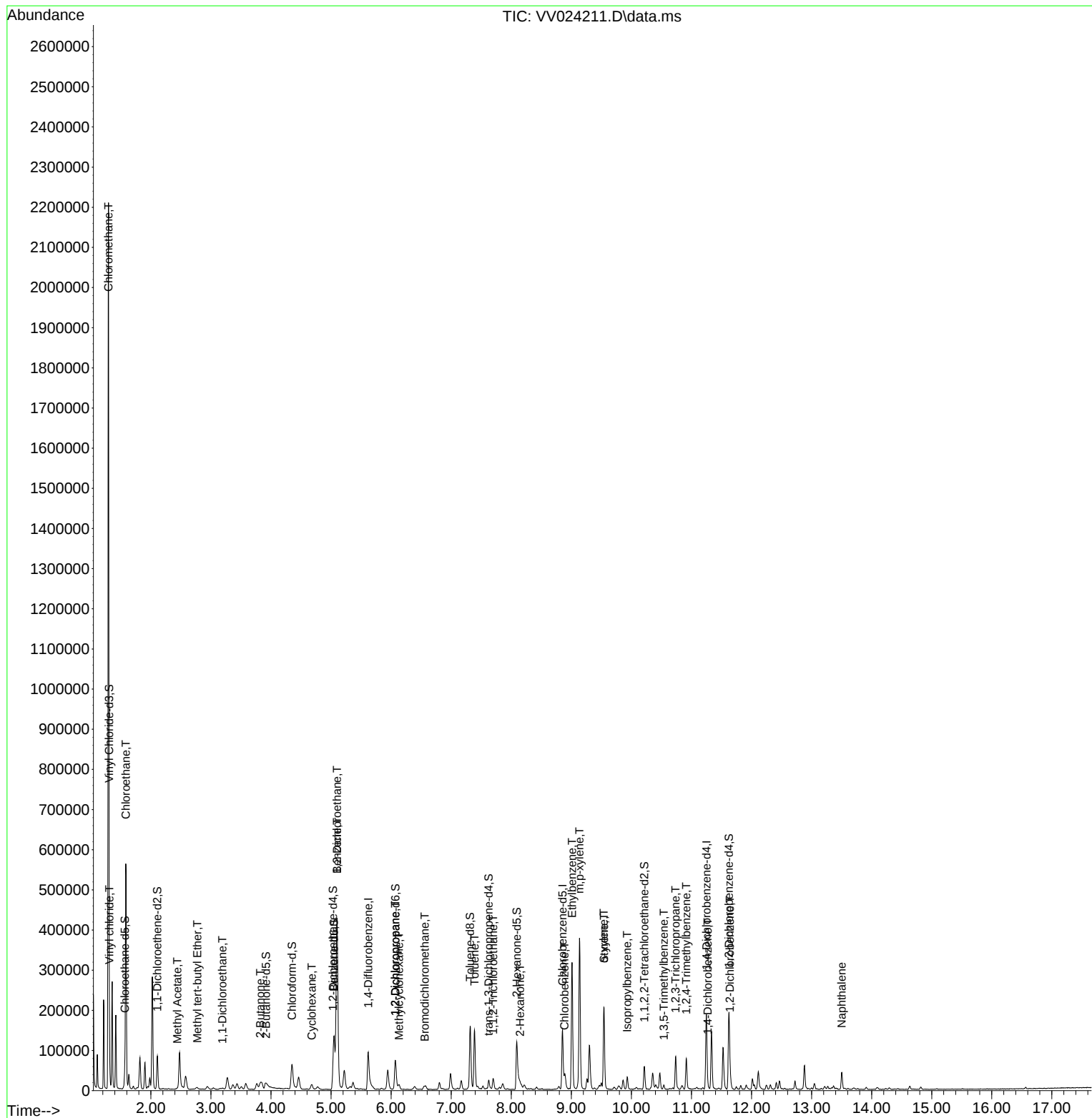
54) o-xylene	9.542	106	54184	2.739	ug/L	99
55) Styrene	9.545	104	3501	0.105	ug/L #	1
60) Isopropylbenzene	9.931	105	18746	0.364	ug/L	98
61) 1,2,3-Trichloropropane	10.734	75	477	0.083	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.541	105	5610	0.129	ug/L	99
63) 1,2,4-Trimethylbenzene	10.914	105	41834	0.945	ug/L	99
65) 1,4-Dichlorobenzene	11.271	146	2290	0.087	ug/L	90
67) 1,2-Dichlorobenzene	11.641	146	13880	0.575	ug/L	94
71) Naphthalene	13.503	128	33459	1.378	ug/L	98

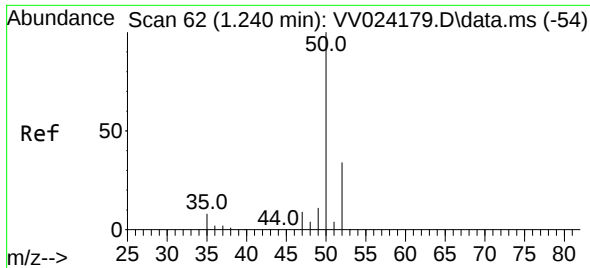
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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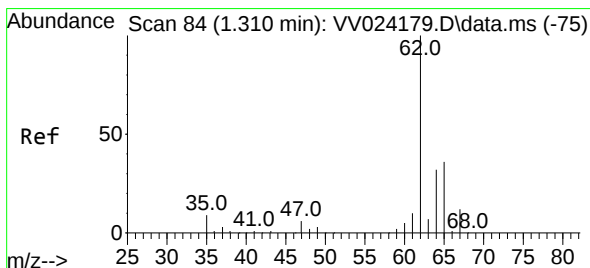
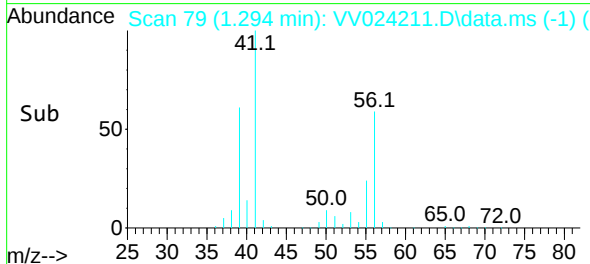
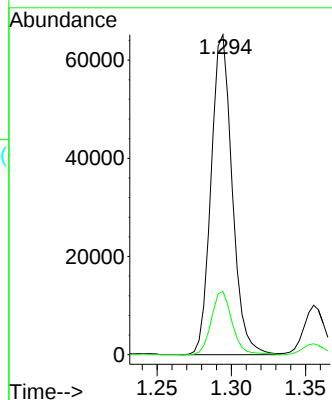
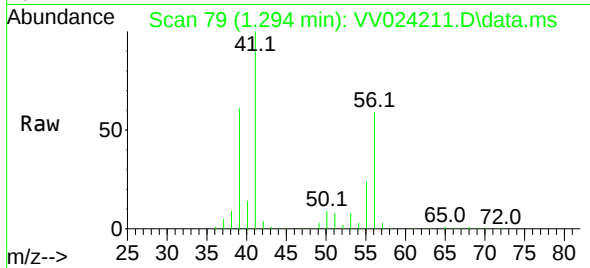
#3
Chloromethane
Concen: 4.508 ug/L
RT: 1.294 min Scan# 79
Delta R.T. 0.055 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Instrument :

MSVOA_V

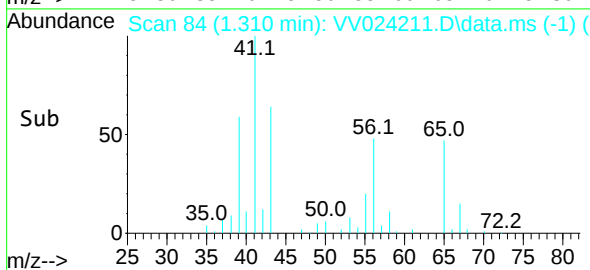
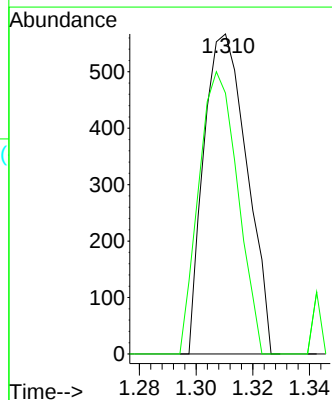
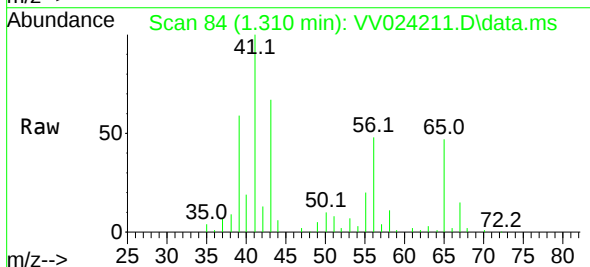
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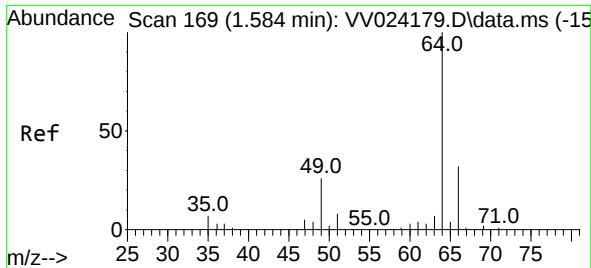
Tgt Ion: 50 Resp: 64539
Ion Ratio Lower Upper
50 100
52 19.8 22.0 41.0#



#5
Vinyl chloride
Concen: 0.041 ug/L
RT: 1.310 min Scan# 84
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

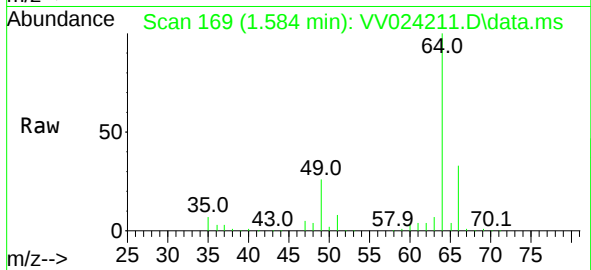
Tgt Ion: 62 Resp: 598
Ion Ratio Lower Upper
62 100
64 81.5 22.4 41.6#



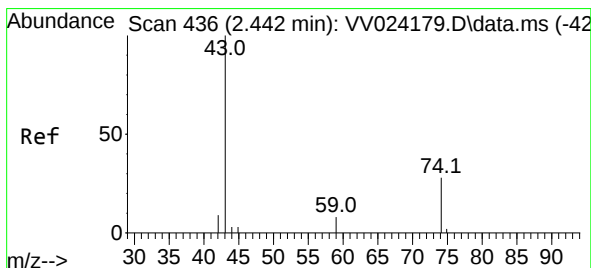
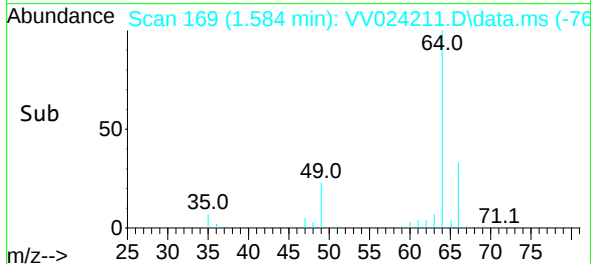
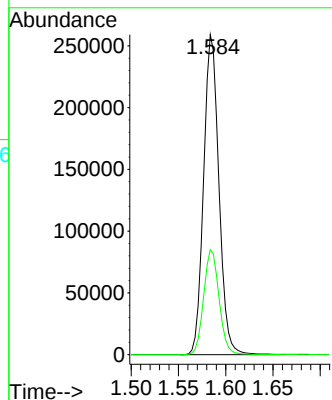


#8
Chloroethane
Concen: 34.237 ug/L
RT: 1.584 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Instrument :
MSVOA_V
ClientSampleId :

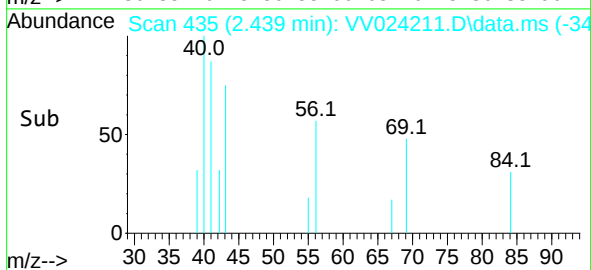
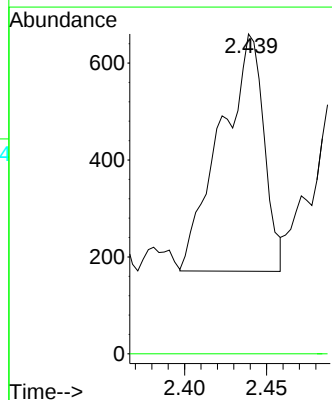
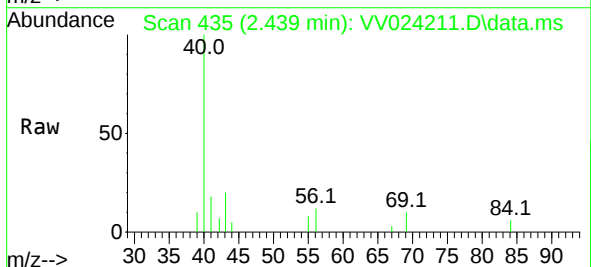


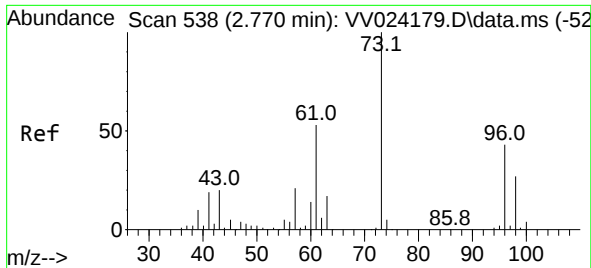
Tgt Ion: 64 Resp: 291678
Ion Ratio Lower Upper
64 100
66 32.8 21.4 39.8



#15
Methyl Acetate
Concen: 0.373 ug/L
RT: 2.439 min Scan# 435
Delta R.T. -0.007 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion: 43 Resp: 900
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#

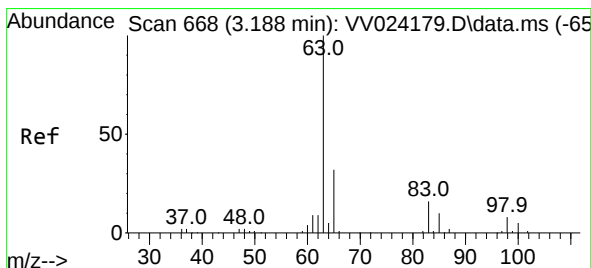
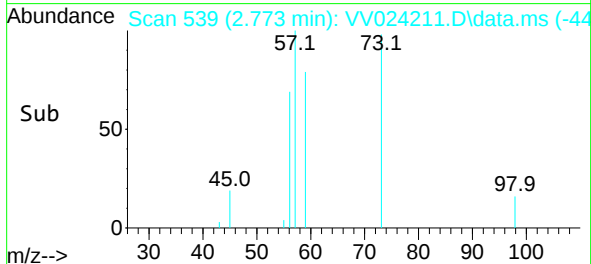
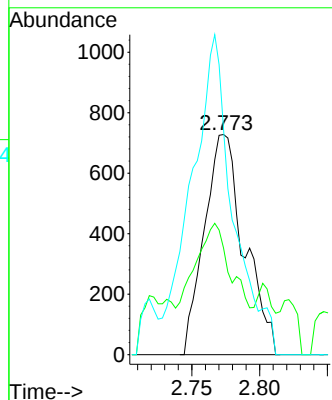
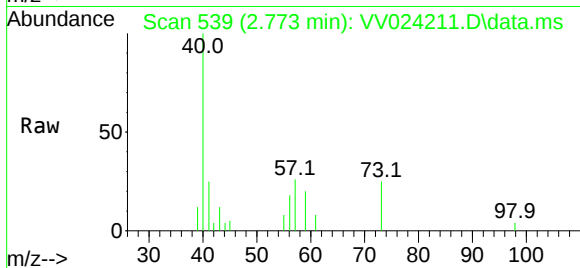




#17
Methyl tert-butyl Ether
Concen: 0.065 ug/L
RT: 2.773 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

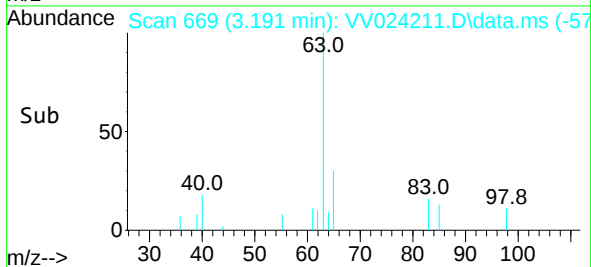
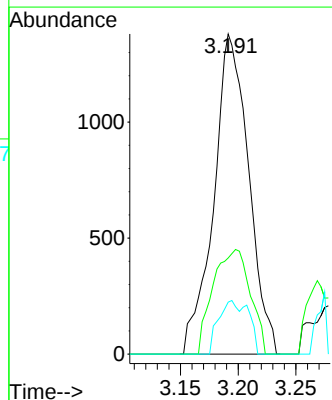
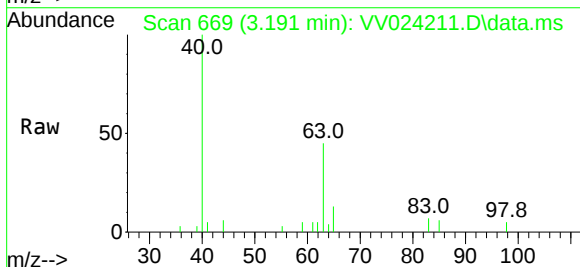
Instrument :
MSVOA_V
ClientSampleId :

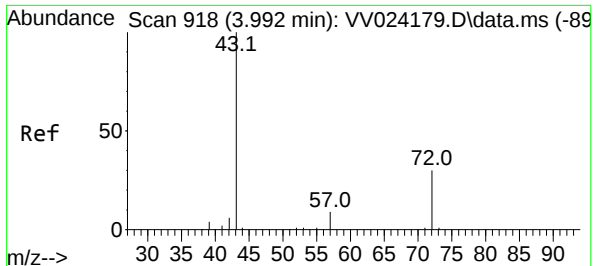
Tgt Ion: 73 Resp: 1490
Ion Ratio Lower Upper
73 100
43 30.0 15.5 23.3#
57 151.7 17.1 25.7#



#19
1,1-Dichloroethane
Concen: 0.146 ug/L
RT: 3.191 min Scan# 669
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion: 63 Resp: 2896
Ion Ratio Lower Upper
63 100
65 30.0 22.3 41.3
83 16.2 10.7 19.9





#21

2-Butanone

Concen: 6.927 ug/L

RT: 3.822 min Scan# 81

Delta R.T. -0.174 min

Lab File: VV024211.D

Acq: 28 Dec 2021 12:25

Instrument :

MSVOA_V

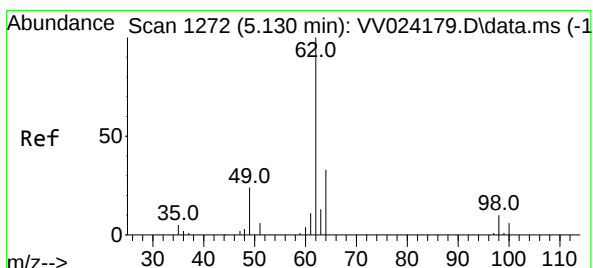
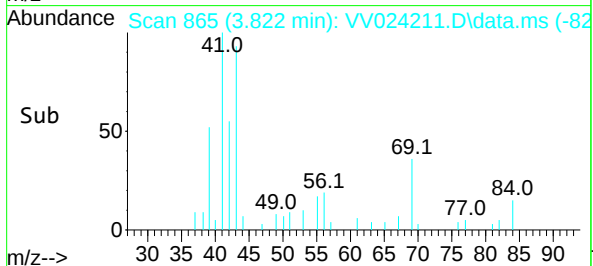
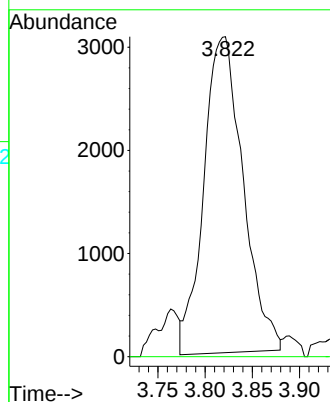
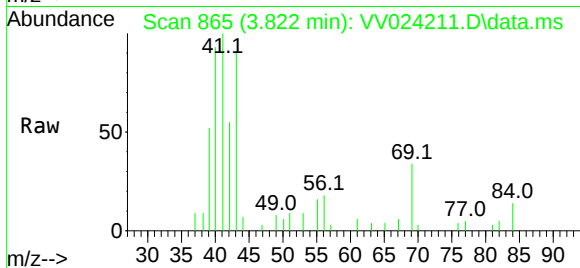
ClientSampleId :

Tgt Ion: 43 Resp: 8859

Ion Ratio Lower Upper

43 100

72 0.0 11.1 33.1#



#27

1,2-Dichloroethane

Concen: 0.311 ug/L

RT: 5.098 min Scan# 1262

Delta R.T. -0.032 min

Lab File: VV024211.D

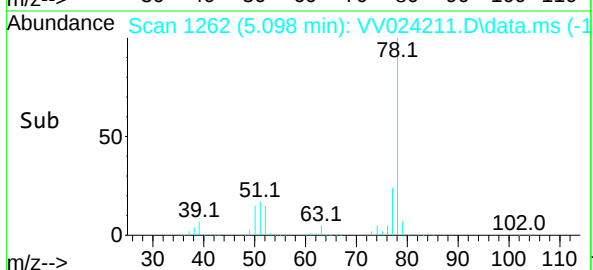
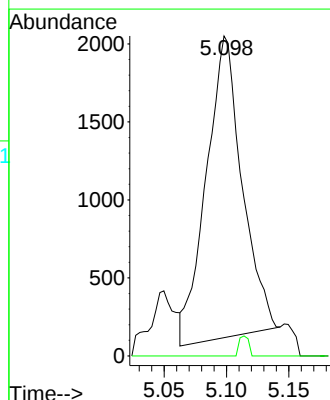
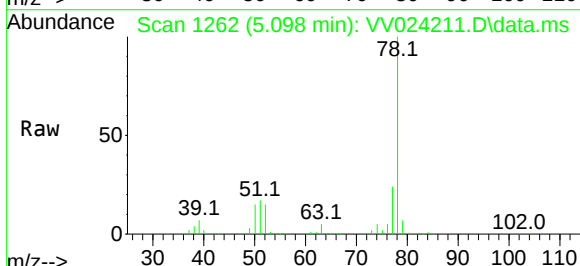
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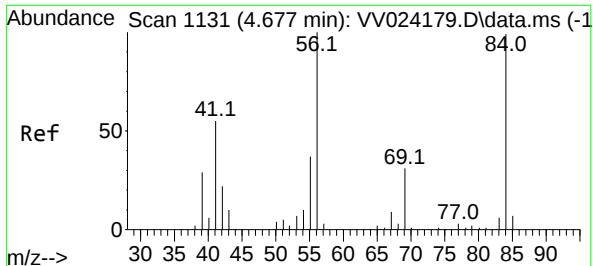
Tgt Ion: 62 Resp: 3866

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#

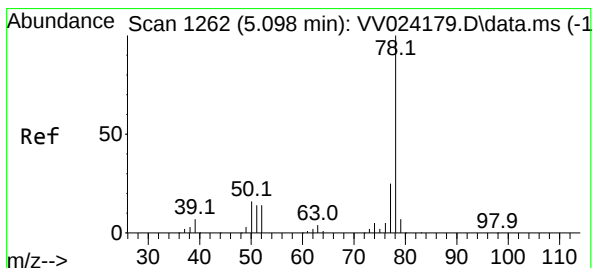
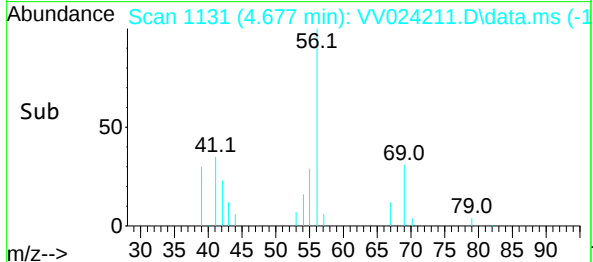
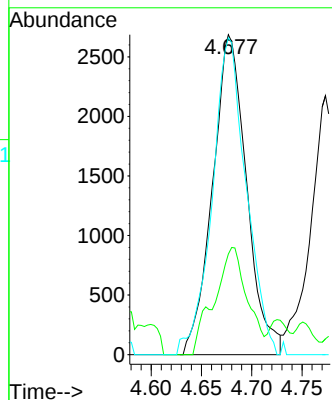
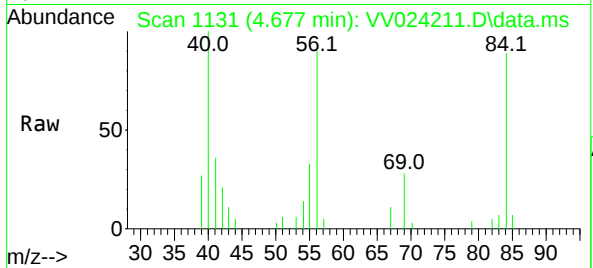




#30
Cyclohexane
Concen: 0.402 ug/L
RT: 4.677 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

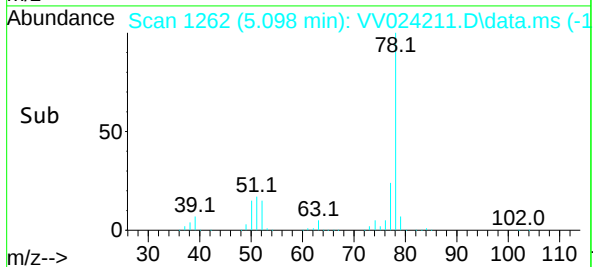
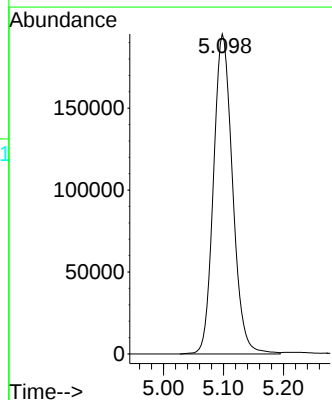
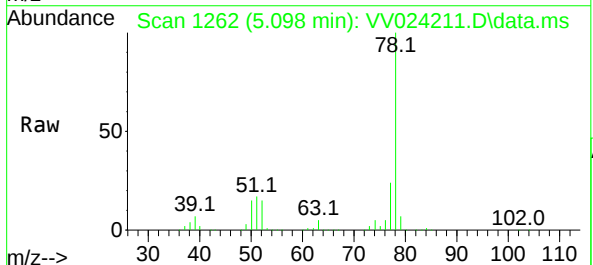
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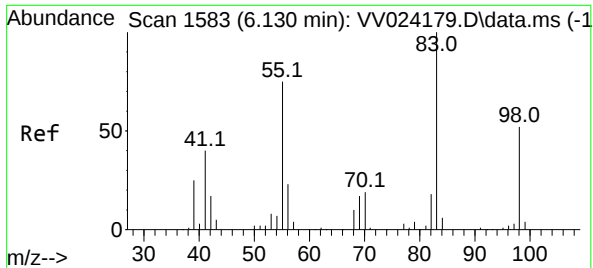
Tgt Ion: 56 Resp: 6310
Ion Ratio Lower Upper
56 100
69 32.7 24.8 37.2
84 98.7 75.9 113.9



#33
Benzene
Concen: 9.806 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion: 78 Resp: 430451

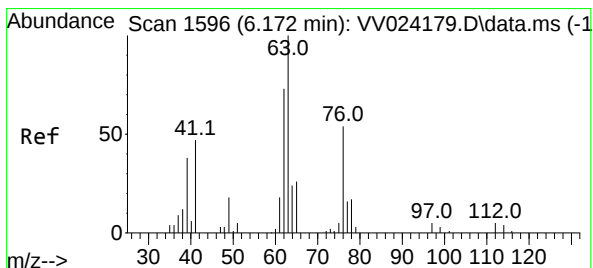
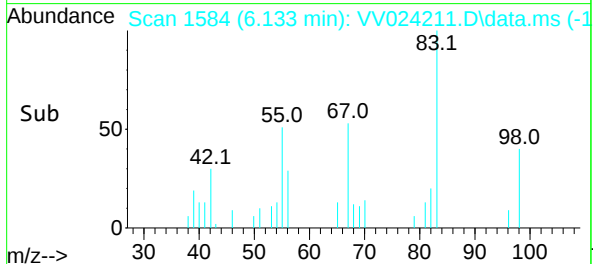
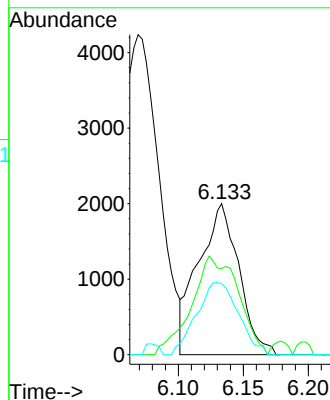
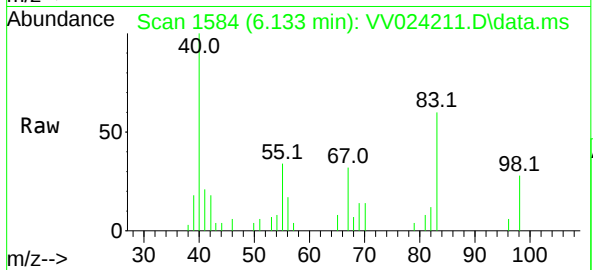




#35
Methylcyclohexane
Concen: 0.241 ug/L
RT: 6.133 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

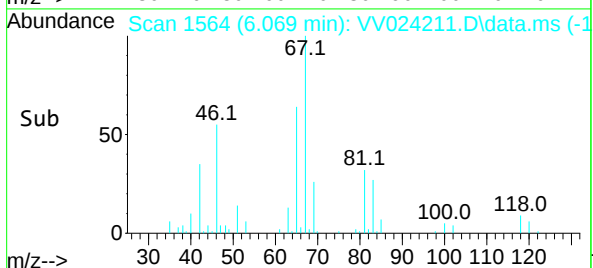
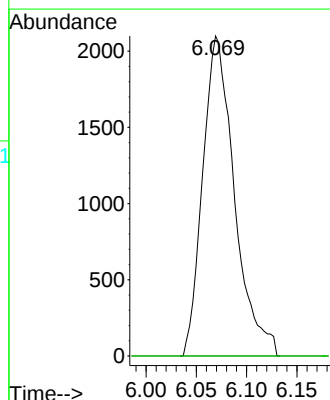
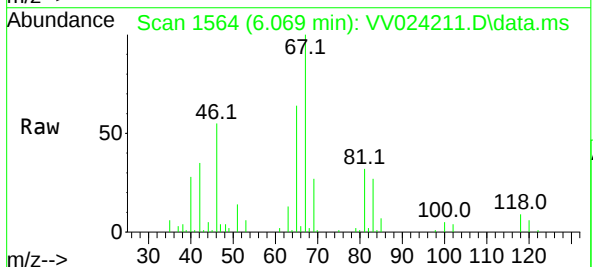
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ClientSampleId :

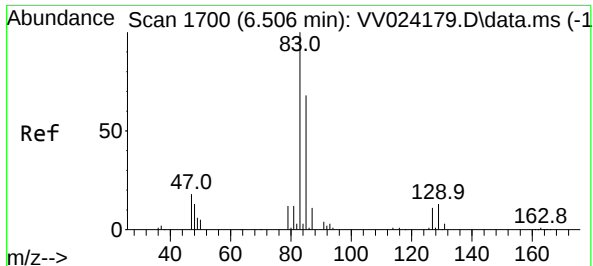
Tgt Ion: 83 Resp: 4325
Ion Ratio Lower Upper
83 100
55 75.8 60.2 90.2
98 49.5 41.0 61.4



#37
1,2-Dichloropropane
Concen: 0.455 ug/L
RT: 6.069 min Scan# 1564
Delta R.T. -0.103 min
Lab File: VV024211.D
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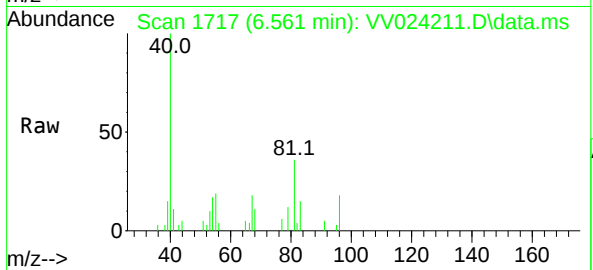
Tgt Ion: 63 Resp: 4607
Ion Ratio Lower Upper
63 100
112 0.0 4.3 6.5#



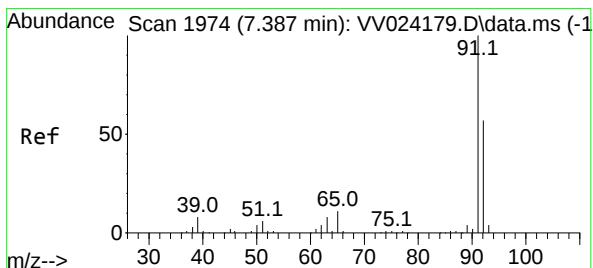
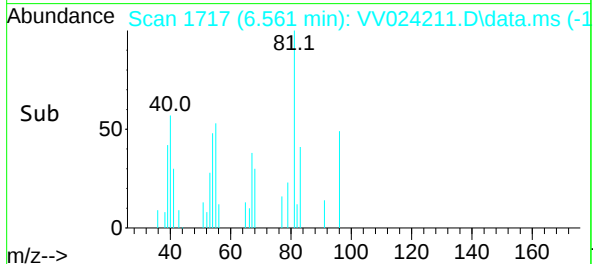
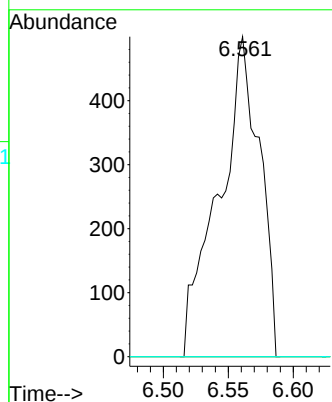


#38
Bromodichloromethane
Concen: 0.076 ug/L
RT: 6.561 min Scan# 1717
Delta R.T. 0.051 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Instrument :
MSVOA_V
ClientSampleId :

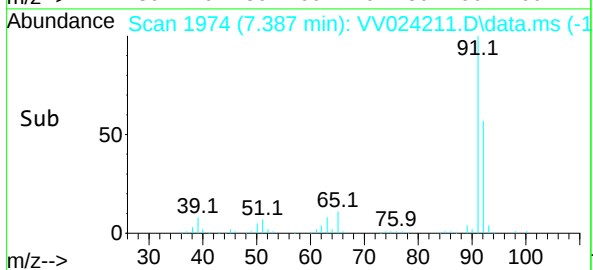
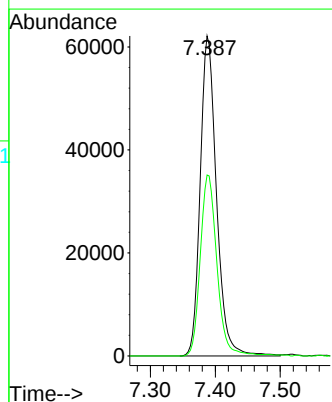
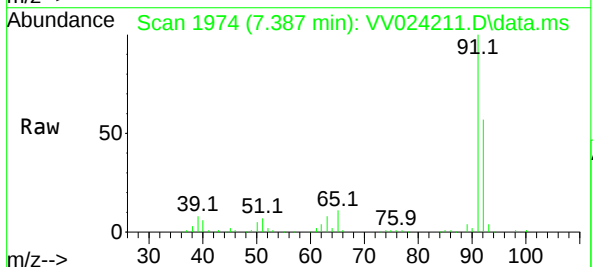


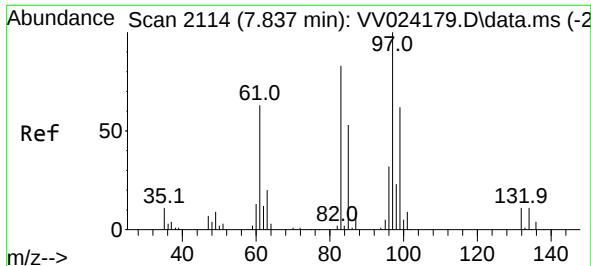
Tgt Ion: 83 Resp: 1096
Ion Ratio Lower Upper
83 100
85 0.0 44.0 81.8#
127 0.0 8.6 12.8#



#42
Toluene
Concen: 2.217 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

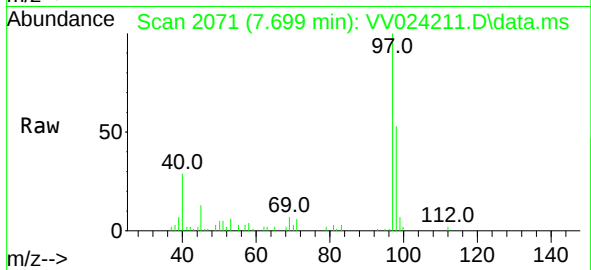
Tgt Ion: 91 Resp: 108611
Ion Ratio Lower Upper
91 100
92 56.5 41.5 77.1



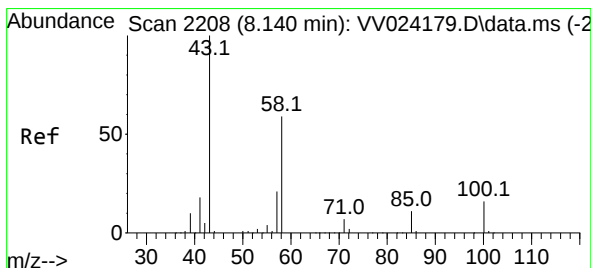
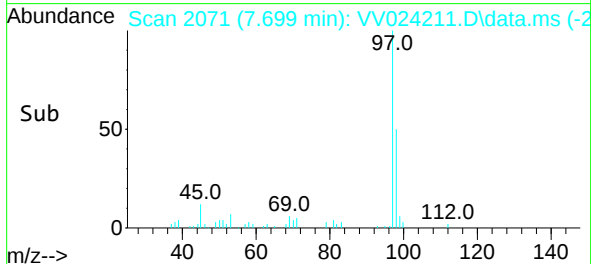
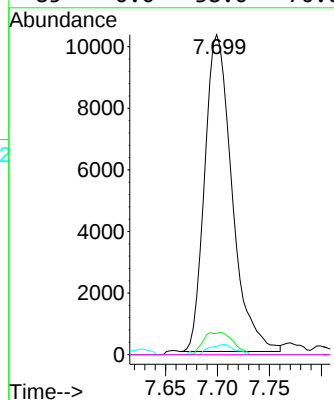


#45
 1,1,2-Trichloroethane
 Concen: 2.513 ug/L
 RT: 7.699 min Scan# 2114
 Delta R.T. -0.138 min
 Lab File: VV024211.D
 Acq: 28 Dec 2021 12:25

Instrument :
 MSVOA_V
 ClientSampleId :

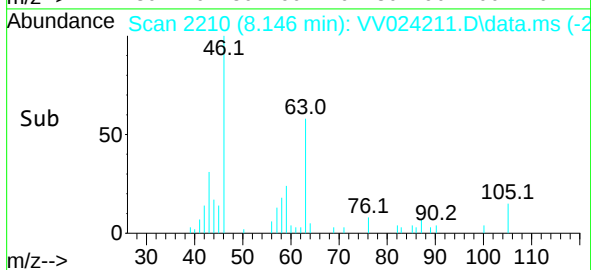
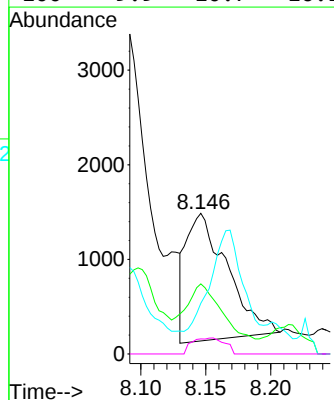
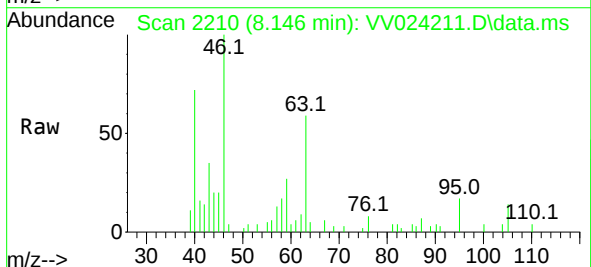


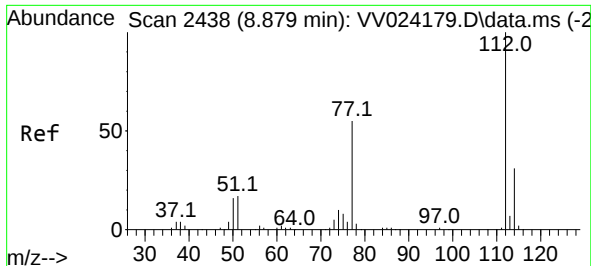
Tgt Ion	Ratio	Lower	Upper
97	100		
99	6.6	43.1	80.1#
83	2.6	57.9	107.5#
85	0.0	38.0	70.6#



#48
 2-Hexanone
 Concen: 0.840 ug/L
 RT: 8.146 min Scan# 2210
 Delta R.T. 0.003 min
 Lab File: VV024211.D
 Acq: 28 Dec 2021 12:25

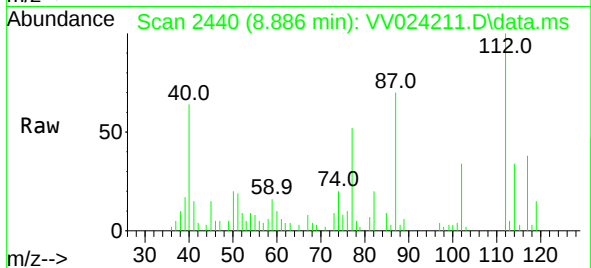
Tgt Ion	Ratio	Lower	Upper
43	100		
58	57.6	44.5	66.7
57	62.4	15.1	22.7#
100	9.9	10.7	16.1#



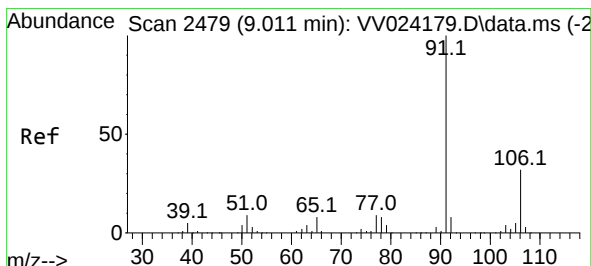
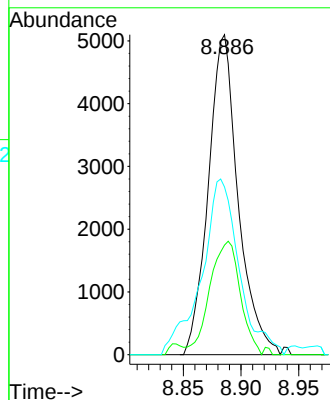
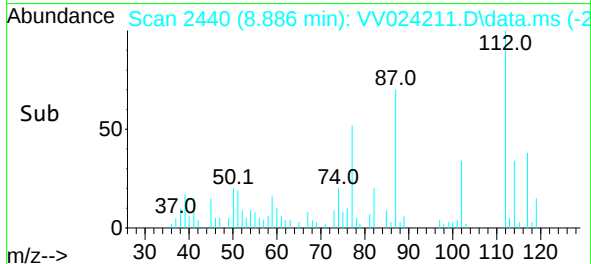


#51
Chlorobenzene
Concen: 0.282 ug/L
RT: 8.886 min Scan# 2440
Delta R.T. 0.006 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Instrument :
MSVOA_V
ClientSampleId :

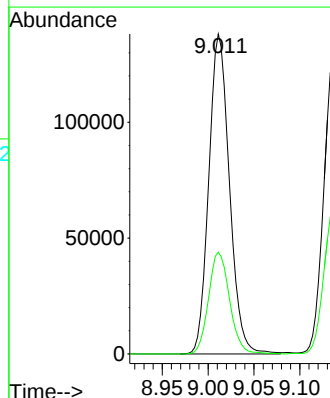
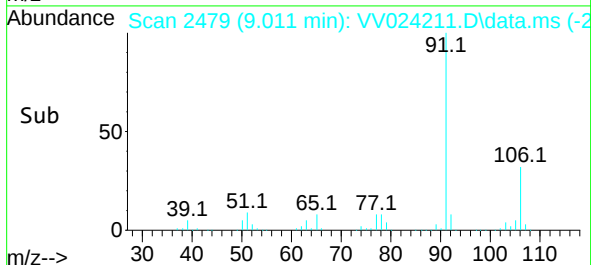
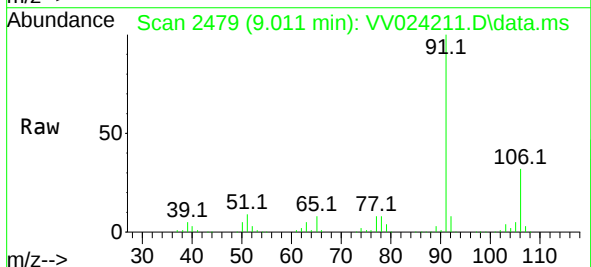


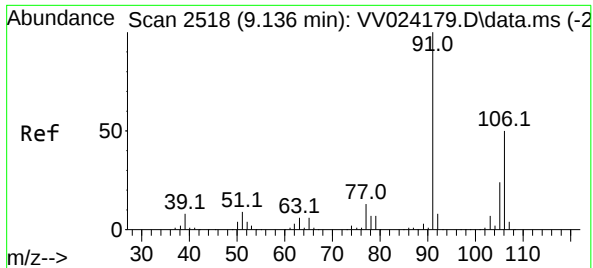
Tgt Ion:112 Resp: 9161
Ion Ratio Lower Upper
112 100
114 34.2 23.3 43.3
77 52.4 43.3 64.9



#52
Ethylbenzene
Concen: 4.150 ug/L
RT: 9.011 min Scan# 2479
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion: 91 Resp: 216142
Ion Ratio Lower Upper
91 100
106 31.8 22.0 41.0

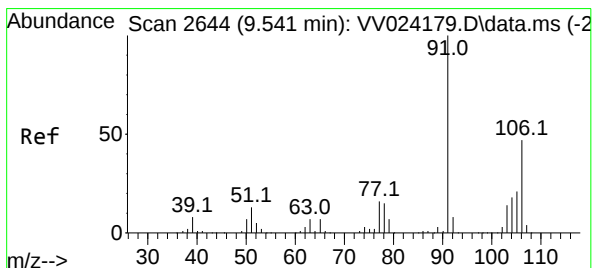
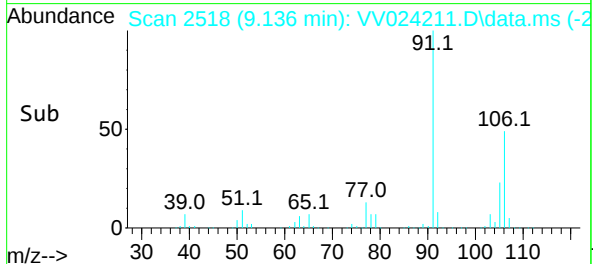
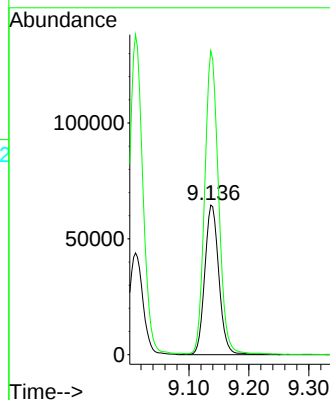
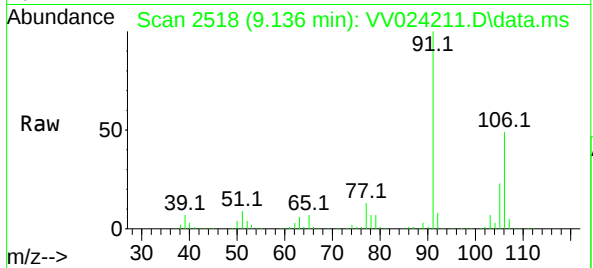




#53
m,p-xylene
Concen: 5.138 ug/L
RT: 9.136 min Scan# 2518
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

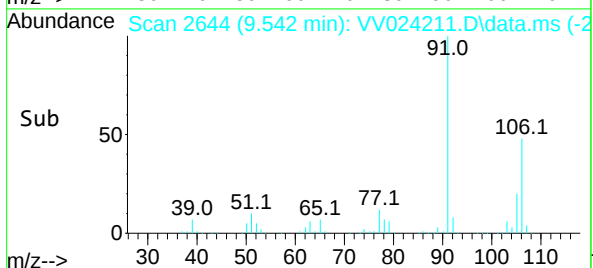
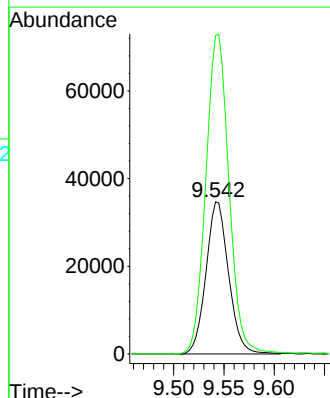
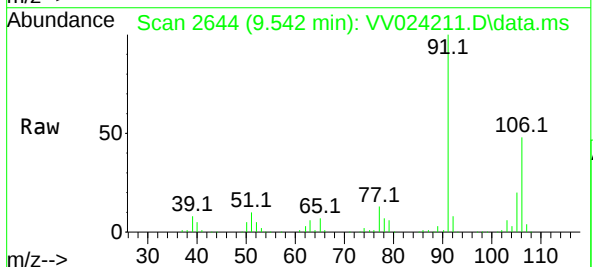
Instrument :
MSVOA_V
ClientSampleId :

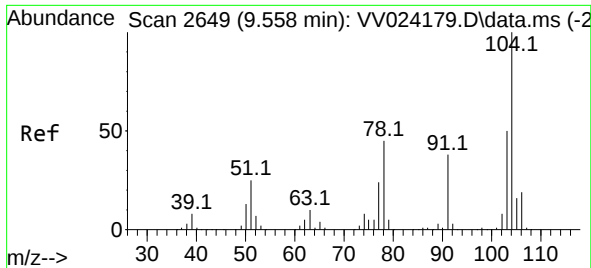
Tgt Ion:106 Resp: 106144
Ion Ratio Lower Upper
106 100
91 203.0 139.5 259.1



#54
o-xylene
Concen: 2.739 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion:106 Resp: 54184
Ion Ratio Lower Upper
106 100
91 209.1 147.9 274.7

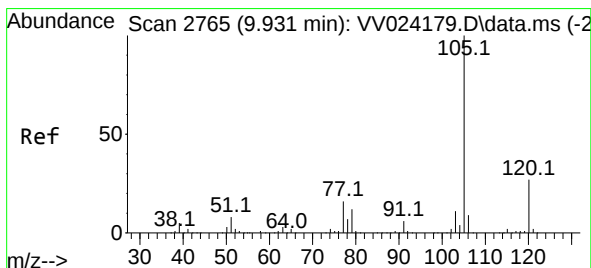
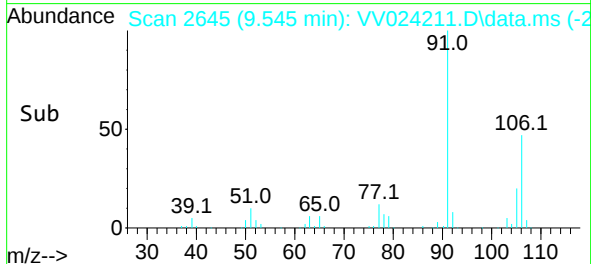
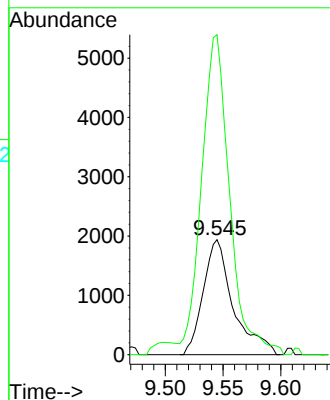
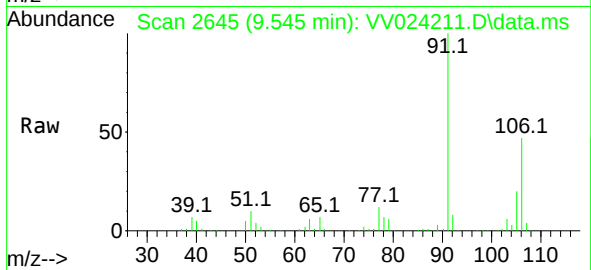




#55
Styrene
Concen: 0.105 ug/L
RT: 9.545 min Scan# 20
Delta R.T. -0.016 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

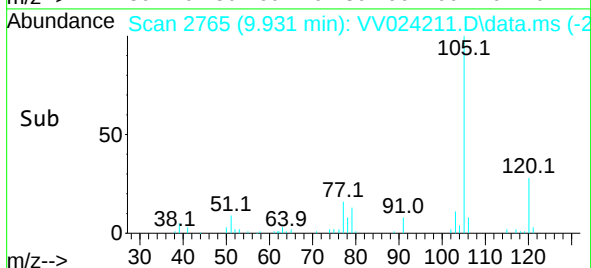
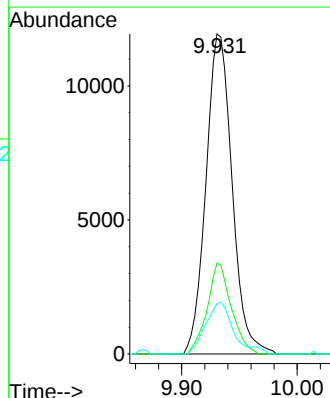
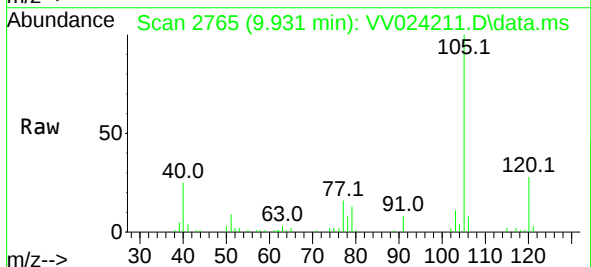
Instrument :
MSVOA_V
ClientSampleId :

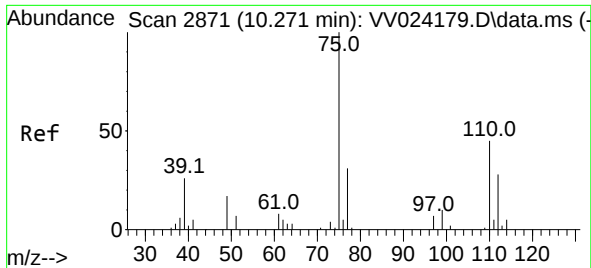
Tgt Ion:104 Resp: 3501
Ion Ratio Lower Upper
104 100
78 278.3 31.0 57.6#



#60
Isopropylbenzene
Concen: 0.364 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion:105 Resp: 18746
Ion Ratio Lower Upper
105 100
120 26.1 21.4 32.0
77 17.2 12.2 18.4

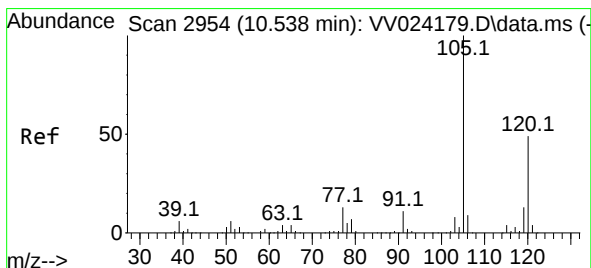
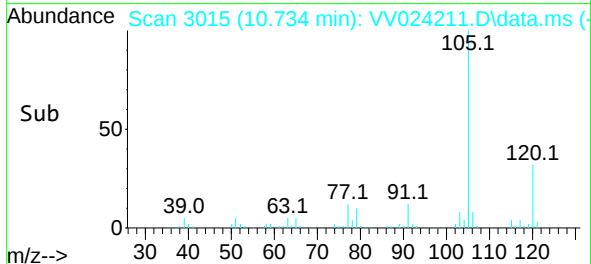
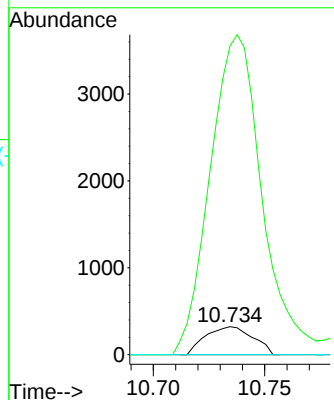
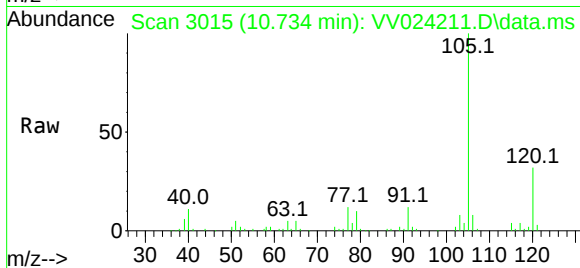




#61
1,2,3-Trichloropropane
Concen: 0.083 ug/L
RT: 10.734 min Scan# 3015
Delta R.T. 0.460 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

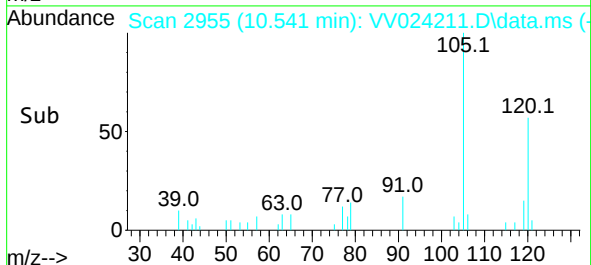
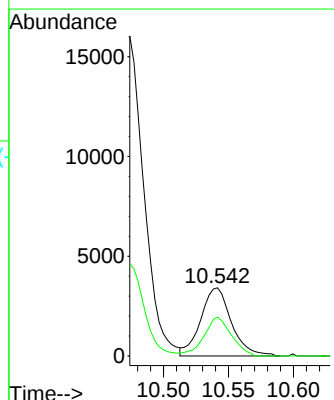
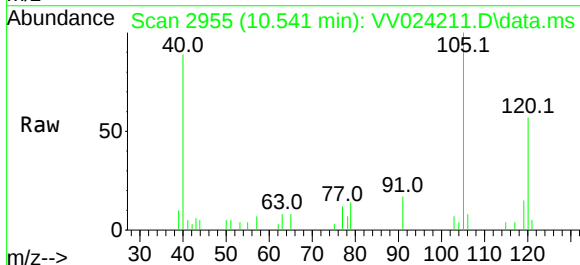
Instrument :
MSVOA_V
ClientSampleId :

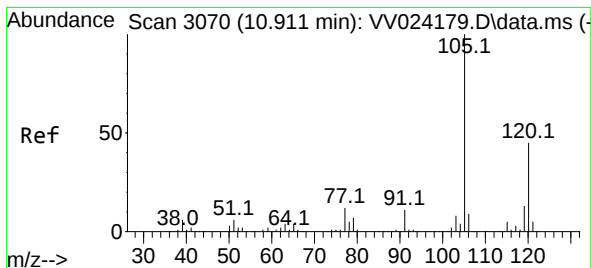
Tgt Ion: 75 Resp: 477
Ion Ratio Lower Upper
75 100
77 1272.5 26.4 39.6#
110 0.0 34.2 51.2#



#62
1,3,5-Trimethylbenzene
Concen: 0.129 ug/L
RT: 10.541 min Scan# 2955
Delta R.T. 0.003 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

Tgt Ion: 105 Resp: 5610
Ion Ratio Lower Upper
105 100
120 51.0 40.1 60.1





#63

1,2,4-Trimethylbenzene

Concen: 0.945 ug/L

RT: 10.914 min Scan# 3070

Delta R.T. -0.000 min

Lab File: VV024211.D

Acq: 28 Dec 2021 12:25

Instrument :

MSVOA_V

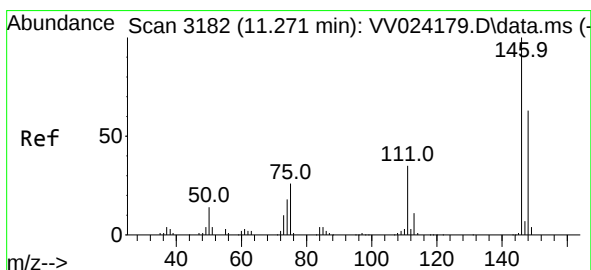
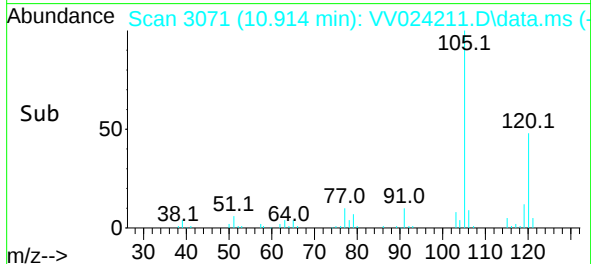
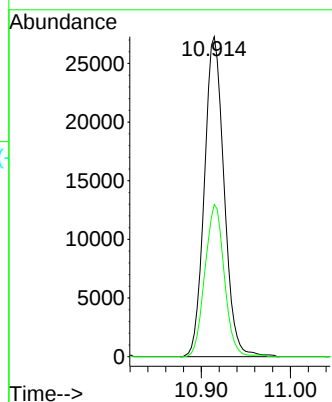
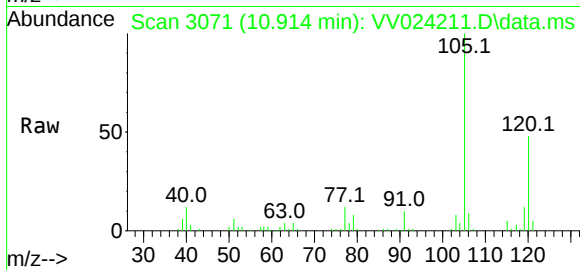
ClientSampleId :

Tgt Ion:105 Resp: 41834

Ion Ratio Lower Upper

105 100

120 46.6 36.7 55.1



#65

1,4-Dichlorobenzene

Concen: 0.087 ug/L

RT: 11.271 min Scan# 3182

Delta R.T. -0.000 min

Lab File: VV024211.D

Acq: 28 Dec 2021 12:25

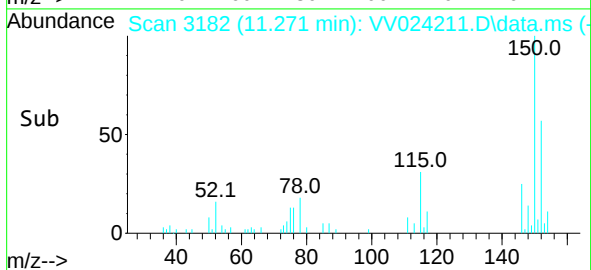
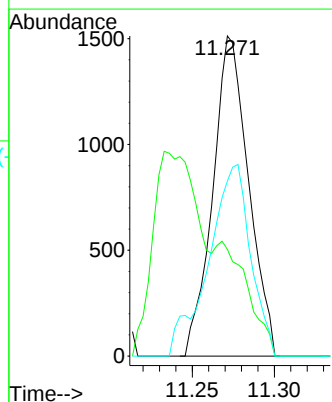
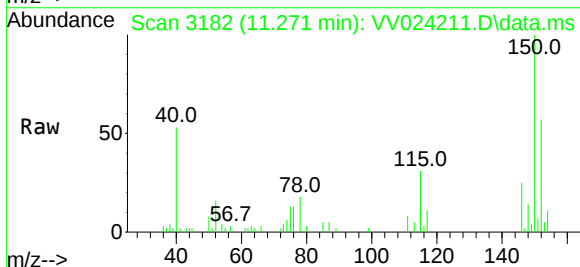
Tgt Ion:146 Resp: 2290

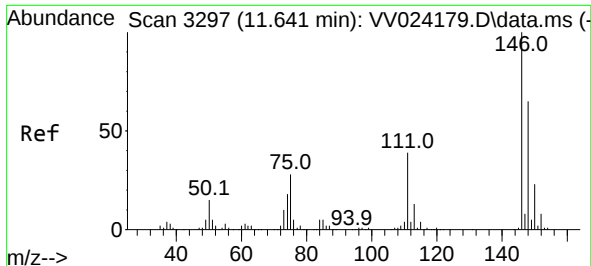
Ion Ratio Lower Upper

146 100

111 33.3 25.6 47.6

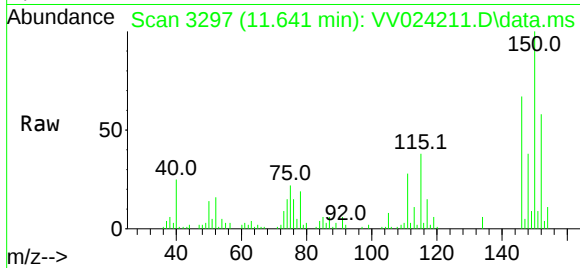
148 54.7 44.8 83.2



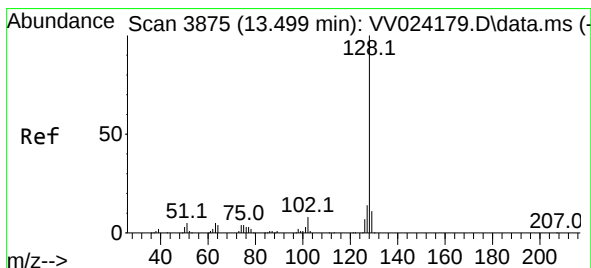
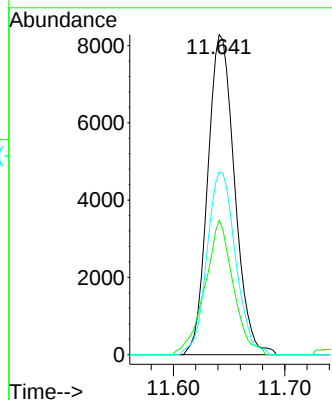
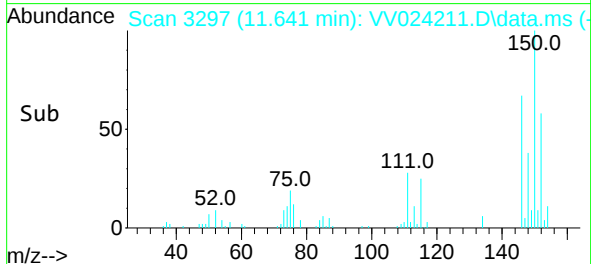


#67
1,2-Dichlorobenzene
Concen: 0.575 ug/L
RT: 11.641 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25

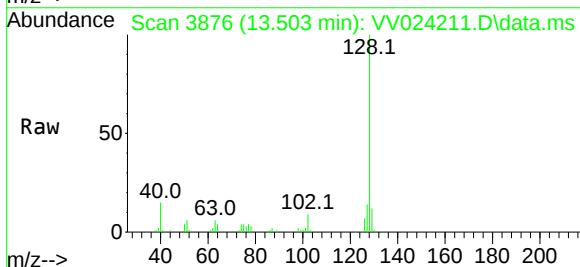
Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:146 Resp: 13880
Ion Ratio Lower Upper
146 100
111 41.9 31.9 47.9
148 57.1 50.5 75.7



#71
Naphthalene
Concen: 1.378 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. -0.000 min
Lab File: VV024211.D
Acq: 28 Dec 2021 12:25



Tgt Ion:128 Resp: 33459
Ion Ratio Lower Upper
128 100
129 12.1 9.0 13.4
127 13.3 10.2 15.4

