

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120721\
 Data File : VU046144.D
 Acq On : 07 Dec 2021 16:35
 Operator : SY/MD
 Sample : M4960-11 40X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 08 04:53:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	251829	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	246268	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	135240	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	80279	38.699	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.400%
7) Chloroethane-d5	1.919	69	59196	37.166	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.340%
11) 1,1-Dichloroethene-d2	2.572	63	112053	30.089	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.180%
21) 2-Butanone-d5	4.639	46	126986	77.004	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	77.000%
24) Chloroform-d	5.067	84	133567	38.556	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.120%
26) 1,2-Dichloroethane-d4	5.703	65	92600	39.830	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.660%
32) Benzene-d6	5.732	84	306335	43.400	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.800%
36) 1,2-Dichloropropane-d6	6.694	67	91053	41.623	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	83.240%
41) Toluene-d8	7.899	98	283036	44.041	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.080%
43) trans-1,3-Dichloroprop...	8.179	79	45361	42.956	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.920%
47) 2-Hexanone-d5	8.636	63	94594	91.202	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.200%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	136629	41.184	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	82.360%
66) 1,2-Dichlorobenzene-d4	12.195	152	115725	44.433	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.860%
Target Compounds						
5) Vinyl chloride	1.607	62	926	0.375	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	982	0.536	ug/L #	21
12) 1,1-Dichloroethene	2.568	96	894	0.513	ug/L #	1
13) Acetone	2.659	43	5124	2.486	ug/L	65
20) cis-1,2-Dichloroethene	4.671	96	14163	7.083	ug/L	92
33) Benzene	5.777	78	38271	5.135	ug/L	100
35) Methylcyclohexane	6.694	83	22745	7.470	ug/L #	20
37) 1,2-Dichloropropane	6.694	63	9730	4.983	ug/L #	86
39) cis-1,3-Dichloropropene	7.565	75	2607	0.878	ug/L #	72
42) Toluene	7.970	91	77698	9.715	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	1929	0.661	ug/L	95
51) Chlorobenzene	9.449	112	33439	6.463	ug/L	98
52) Ethylbenzene	9.571	91	31460	3.655	ug/L	97
53) m,p-Xylene	9.694	106	31646	9.427	ug/L	95
54) o-xylene	10.102	106	11658	3.579	ug/L	98
55) Styrene	10.115	104	3769	0.678	ug/L #	69
63) 1,2,4-Trimethylbenzene	11.468	105	15699	2.139	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	2955	0.702	ug/L #	90
71) Naphthalene	14.086	128	57406	6.104	ug/L	100

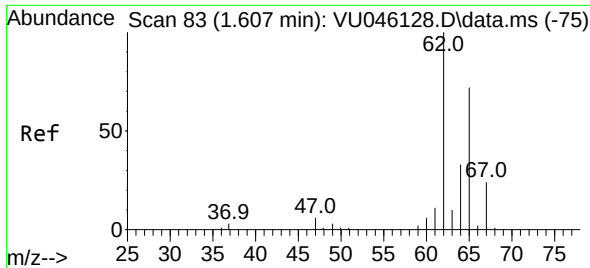
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120721\
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QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

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

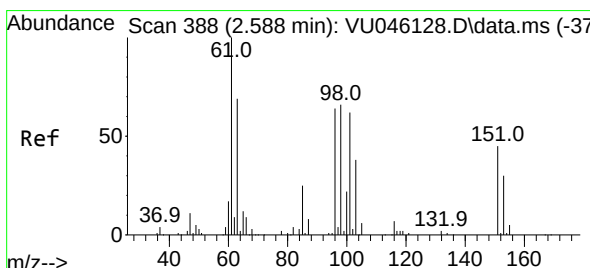
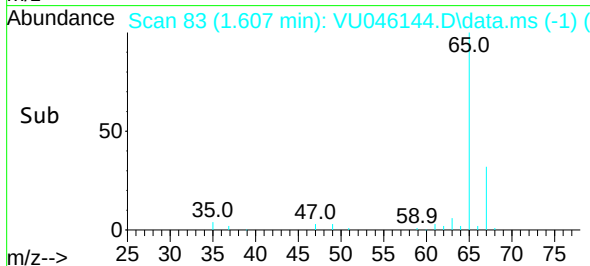
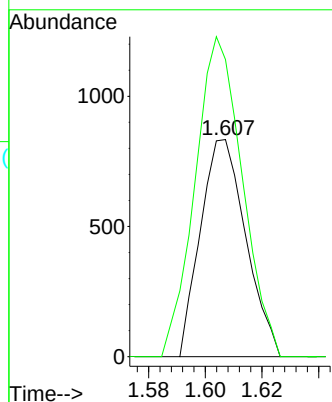
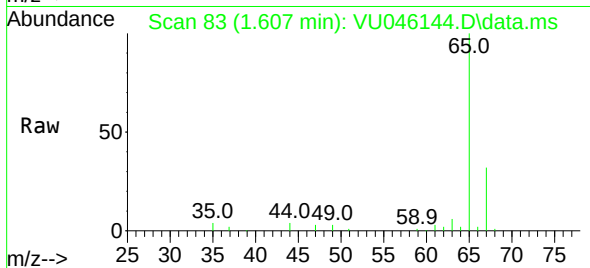
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 0.375 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046144.D
 Acq: 07 Dec 2021 16:35

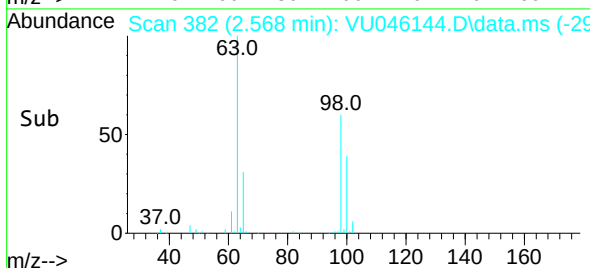
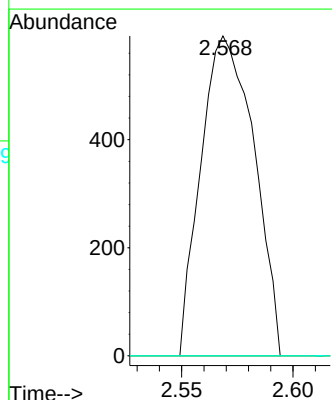
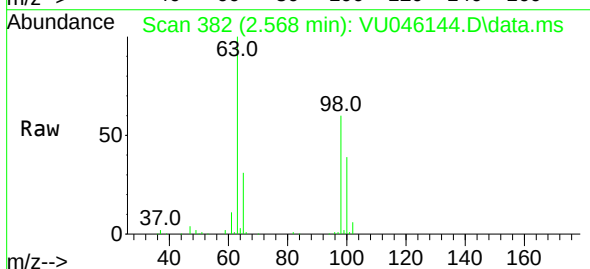
Instrument :
 MSVOA_U
 ClientSampleId :

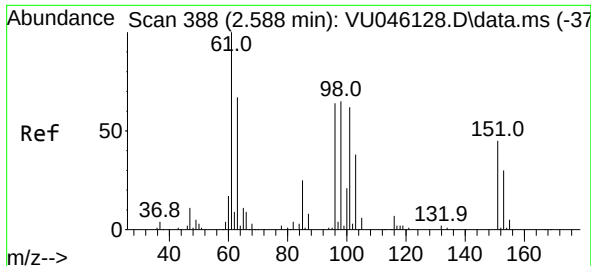
Tgt Ion: 62 Resp: 926
 Ion Ratio Lower Upper
 62 100
 64 136.8 22.9 42.5#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.536 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.019 min
 Lab File: VU046144.D
 Acq: 07 Dec 2021 16:35

Tgt Ion: 101 Resp: 982
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#





#12

1,1-Dichloroethene

Concen: 0.513 ug/L

RT: 2.568 min Scan# 388

Delta R.T. -0.016 min

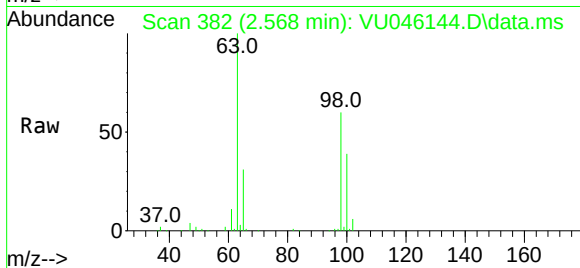
Lab File: VU046144.D

Acq: 07 Dec 2021 16:35

Instrument :

MSVOA_U

ClientSampleId :



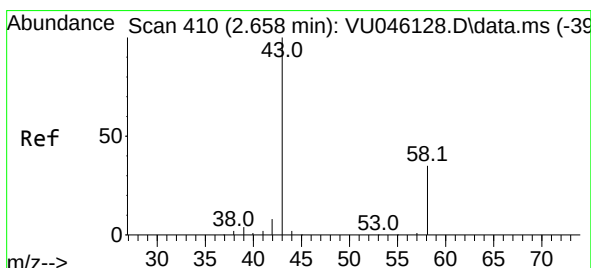
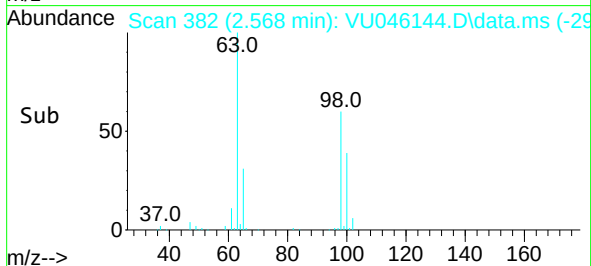
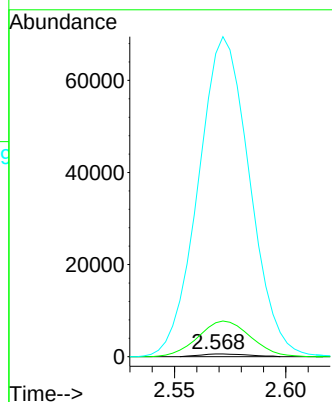
Tgt Ion: 96 Resp: 894

Ion Ratio Lower Upper

96 100

61 1247.9 118.6 220.2#

63 11136.4 93.0 172.8#



#13

Acetone

Concen: 2.486 ug/L

RT: 2.659 min Scan# 410

Delta R.T. -0.003 min

Lab File: VU046144.D

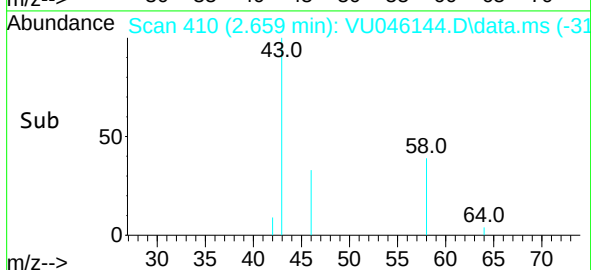
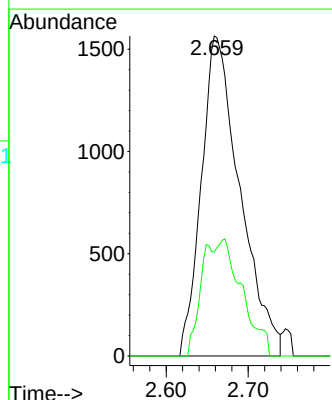
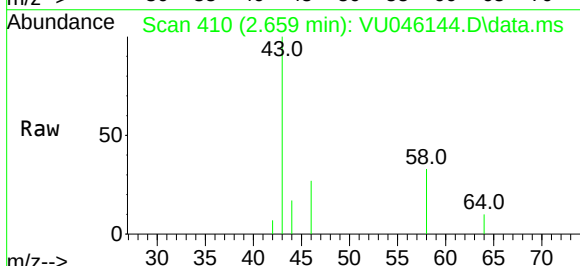
Acq: 07 Dec 2021 16:35

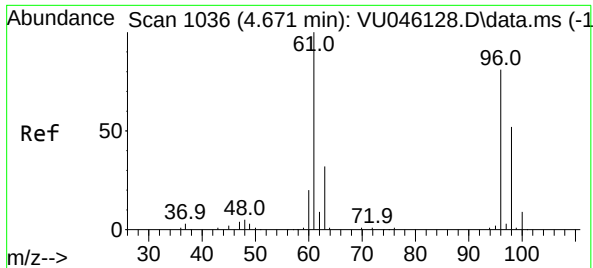
Tgt Ion: 43 Resp: 5124

Ion Ratio Lower Upper

43 100

58 13.5 0.0 66.8

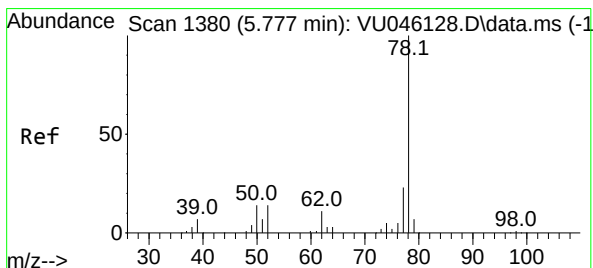
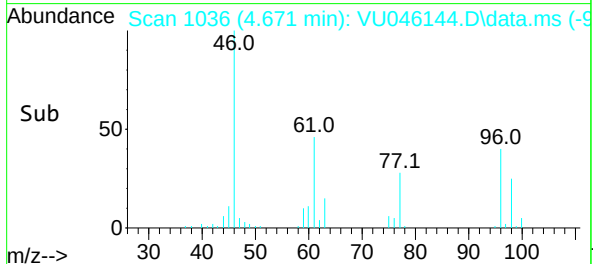
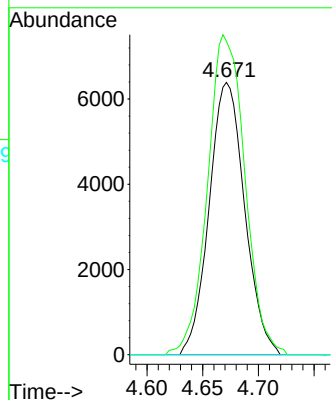
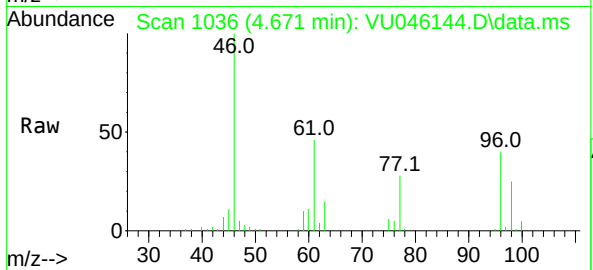




#20
 cis-1,2-Dichloroethene
 Concen: 7.083 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VU046144.D
 Acq: 07 Dec 2021 16:35

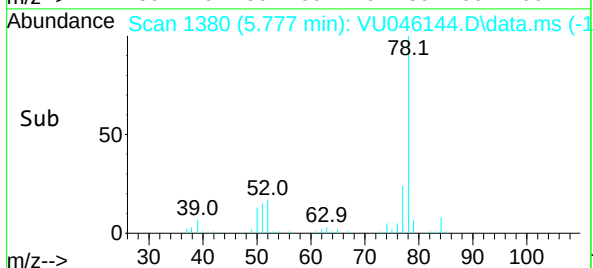
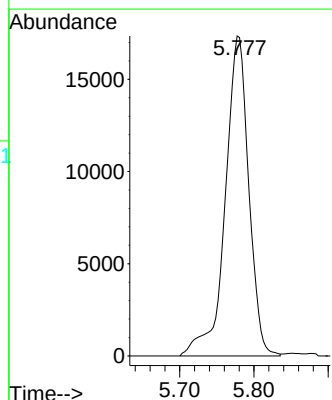
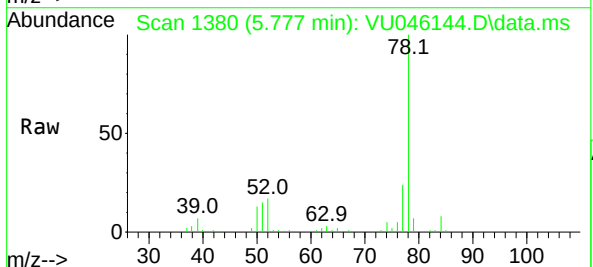
Instrument :
 MSVOA_U
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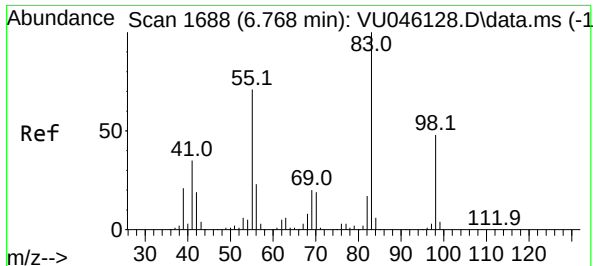
Tgt Ion: 96 Resp: 14163
 Ion Ratio Lower Upper
 96 100
 61 115.1 86.8 161.2
 68 0.0 0.0 0.0



#33
 Benzene
 Concen: 5.135 ug/L
 RT: 5.777 min Scan# 1380
 Delta R.T. -0.003 min
 Lab File: VU046144.D
 Acq: 07 Dec 2021 16:35

Tgt Ion: 78 Resp: 38271





#35

Methylcyclohexane

Concen: 7.470 ug/L

RT: 6.694 min Scan# 1665

Delta R.T. -0.074 min

Lab File: VU046144.D

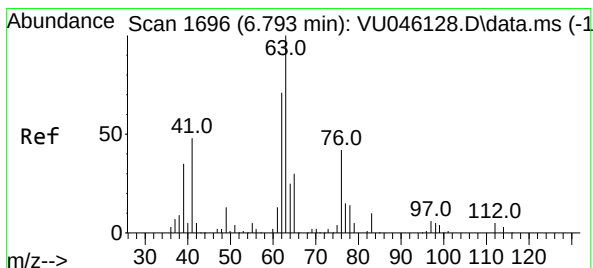
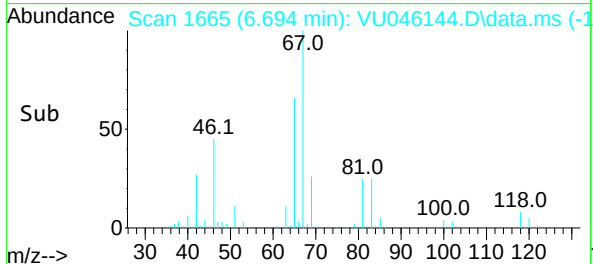
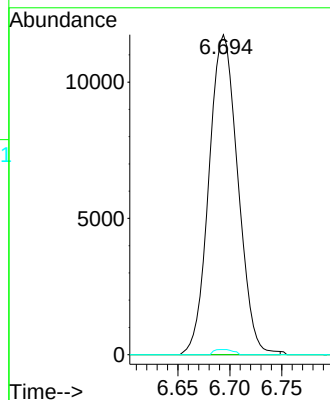
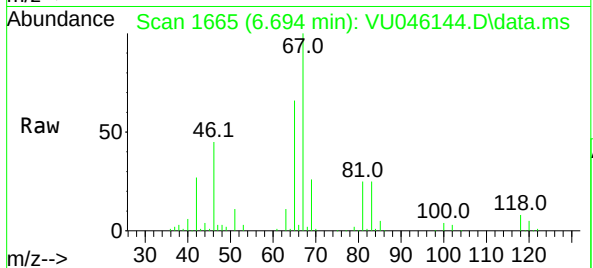
Acq: 07 Dec 2021 16:35

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 22745
Ion Ratio	Lower Upper
83 100	
55 0.0	57.8 86.6#
98 1.1	38.4 57.6#



#37

1,2-Dichloropropane

Concen: 4.983 ug/L

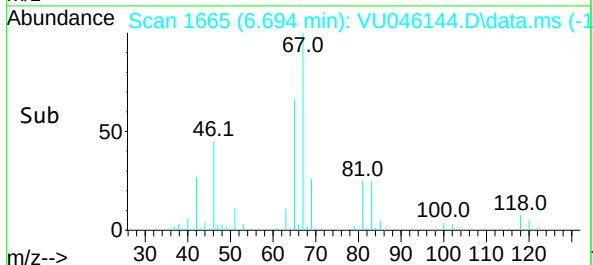
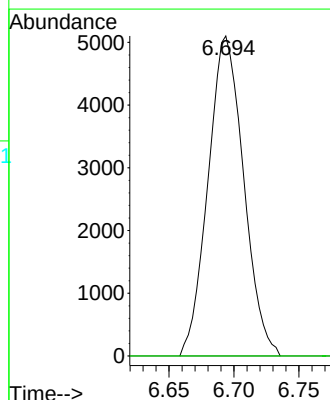
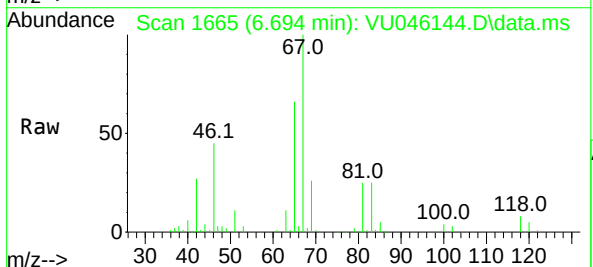
RT: 6.694 min Scan# 1665

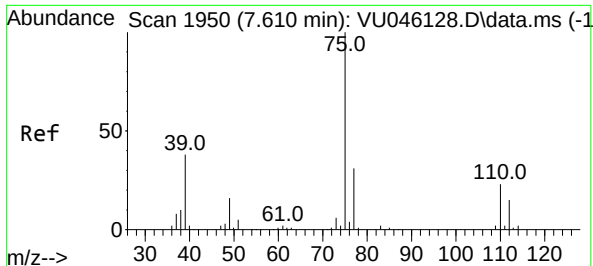
Delta R.T. -0.100 min

Lab File: VU046144.D

Acq: 07 Dec 2021 16:35

Tgt Ion: 63	Resp: 9730
Ion Ratio	Lower Upper
63 100	
112 0.0	3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.878 ug/L

RT: 7.565 min Scan# 1950

Delta R.T. -0.045 min

Lab File: VU046144.D

Acq: 07 Dec 2021 16:35

Instrument :

MSVOA_U

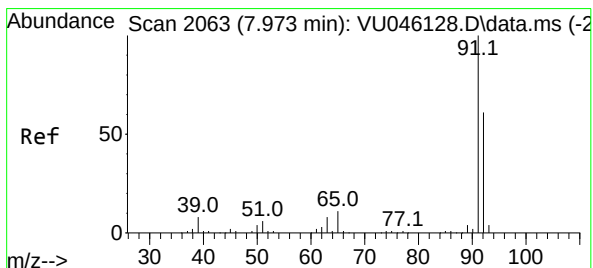
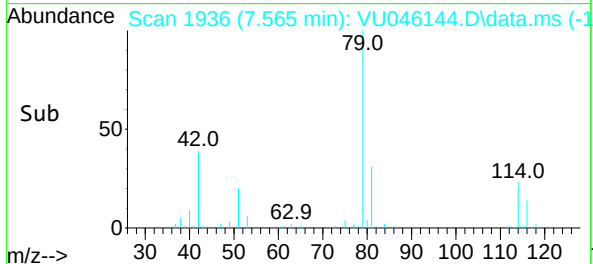
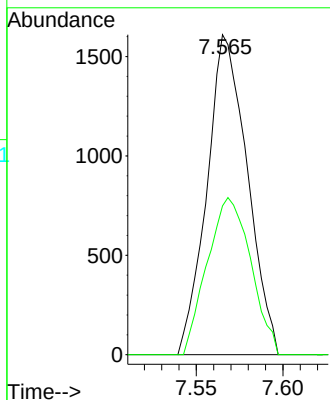
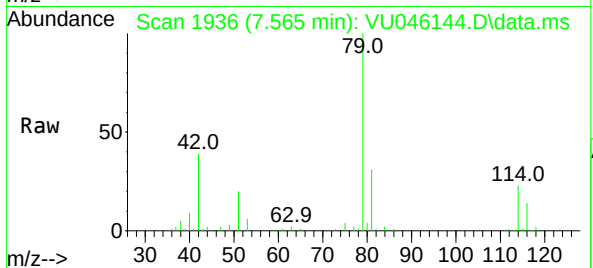
ClientSampleId :

Tgt Ion: 75 Resp: 2607

Ion Ratio Lower Upper

75 100

77 46.5 21.8 40.6#



#42

Toluene

Concen: 9.715 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU046144.D

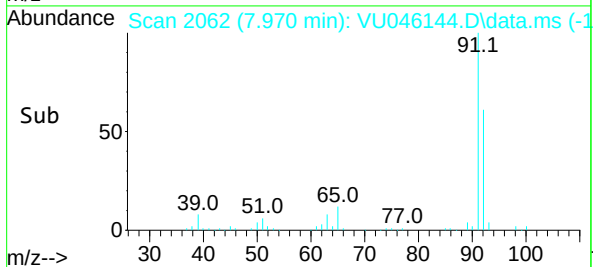
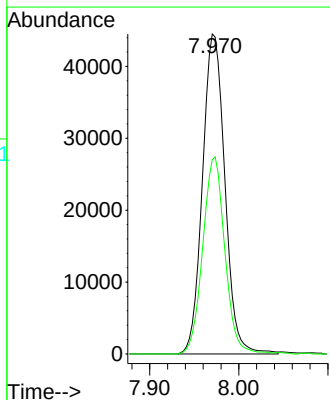
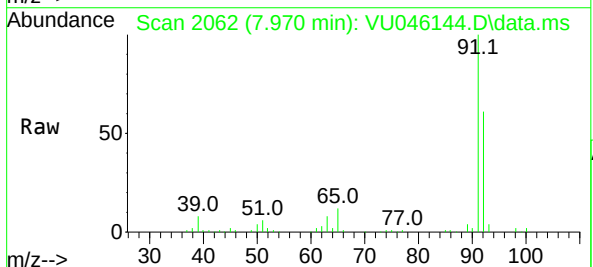
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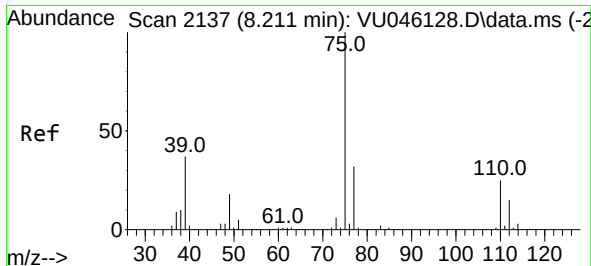
Tgt Ion: 91 Resp: 77698

Ion Ratio Lower Upper

91 100

92 60.7 41.9 77.7

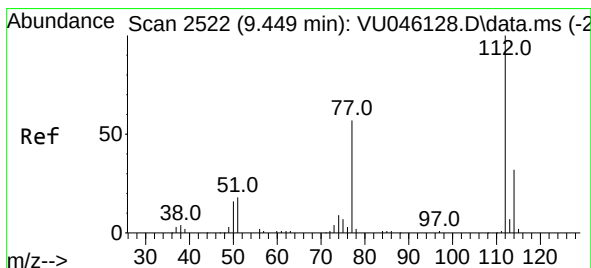
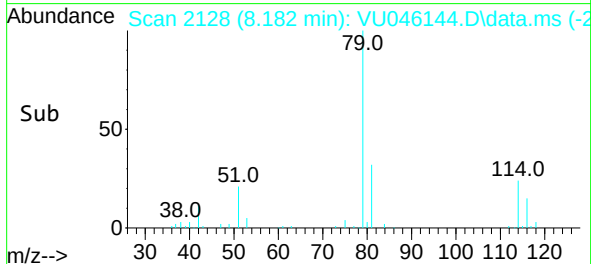
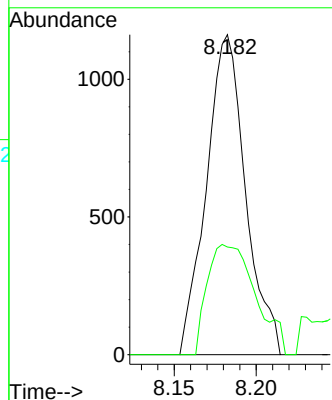
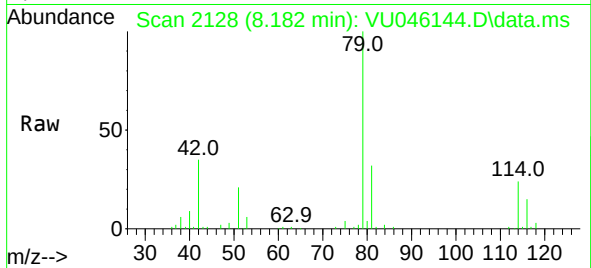




#44
trans-1,3-Dichloropropene
Concen: 0.661 ug/L
RT: 8.182 min Scan# 2137
Delta R.T. -0.032 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

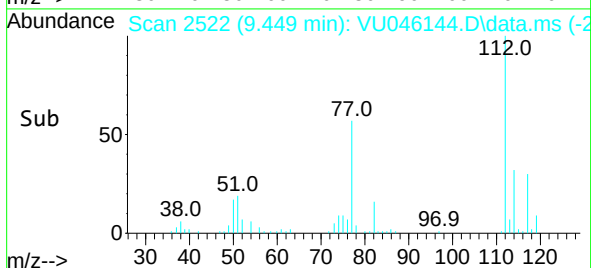
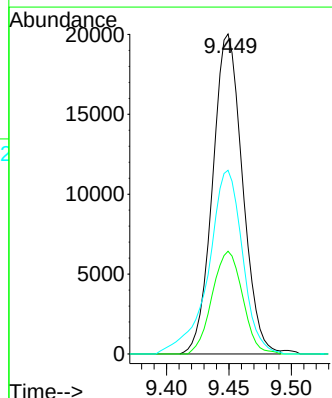
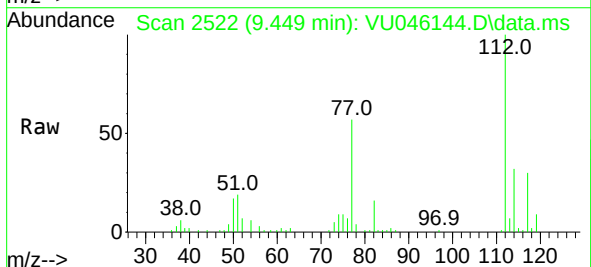
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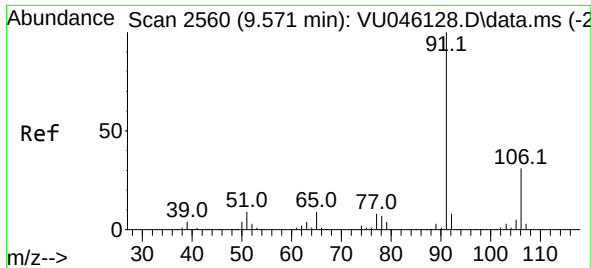
Tgt Ion: 75 Resp: 1929
Ion Ratio Lower Upper
75 100
77 33.6 21.7 40.3



#51
Chlorobenzene
Concen: 6.463 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

Tgt Ion: 112 Resp: 33439
Ion Ratio Lower Upper
112 100
114 32.1 22.2 41.2
77 57.4 47.4 71.0

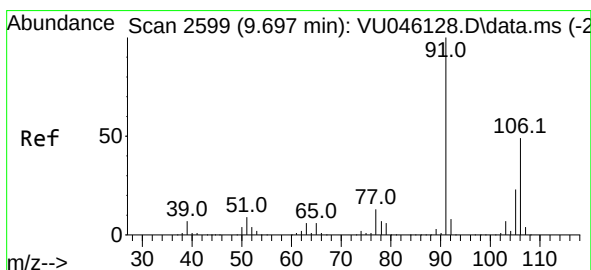
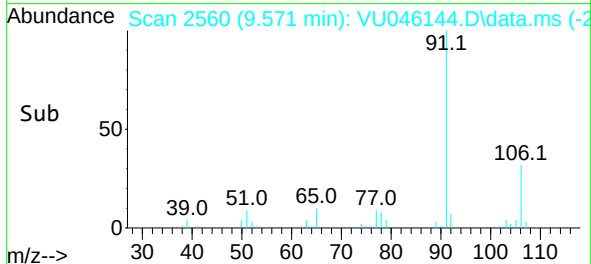
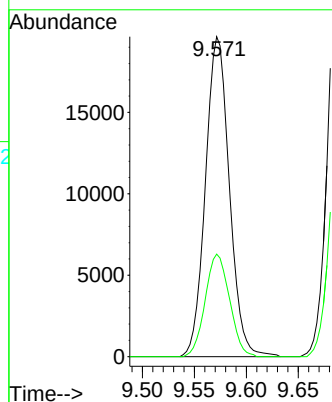
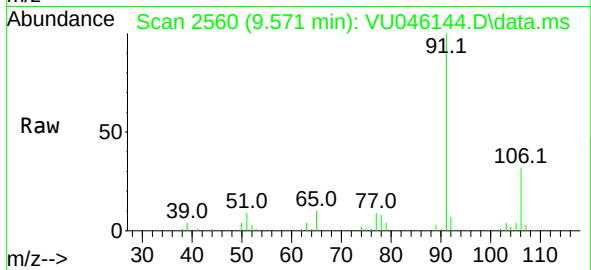




#52
Ethylbenzene
Concen: 3.655 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

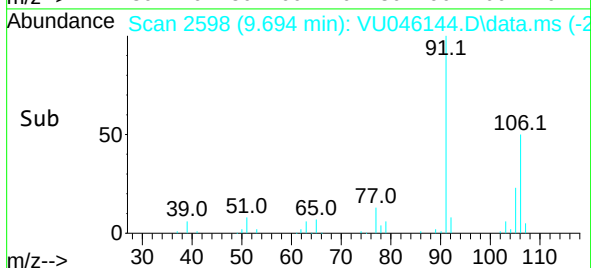
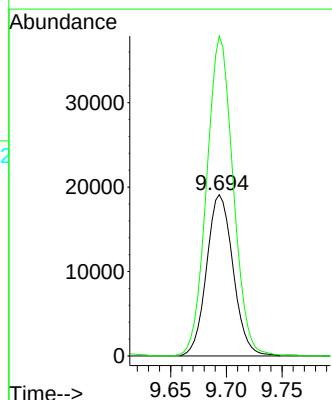
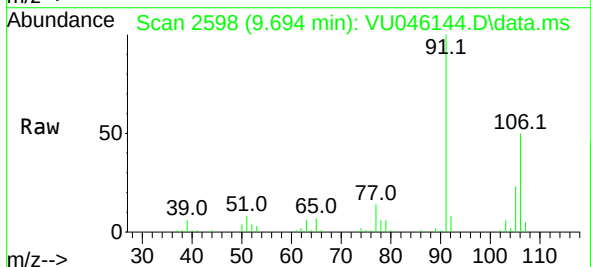
Instrument :
MSVOA_U
ClientSampleId :

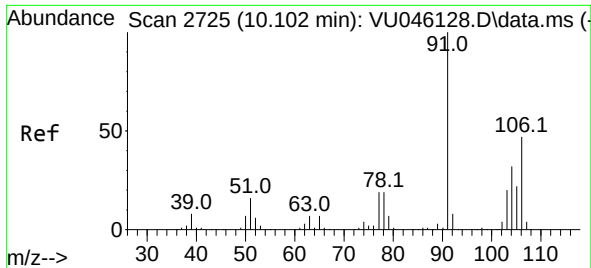
Tgt Ion: 91 Resp: 31460
Ion Ratio Lower Upper
91 100
106 32.1 21.1 39.3



#53
m,p-Xylene
Concen: 9.427 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

Tgt Ion:106 Resp: 31646
Ion Ratio Lower Upper
106 100
91 198.4 144.3 268.1

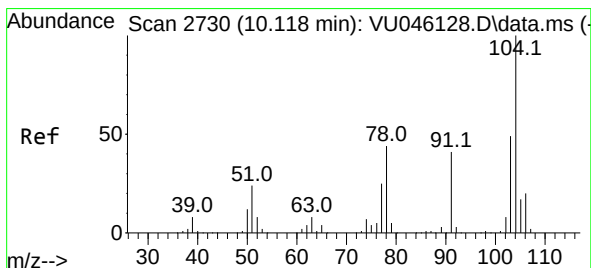
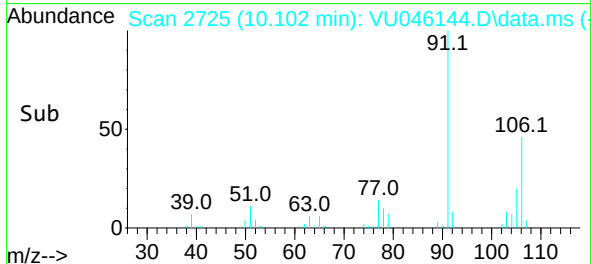
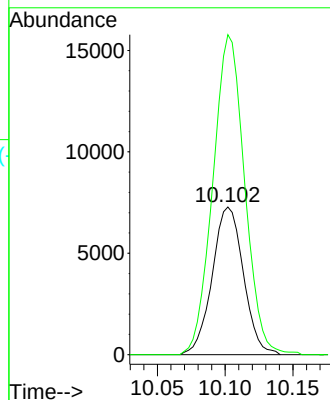
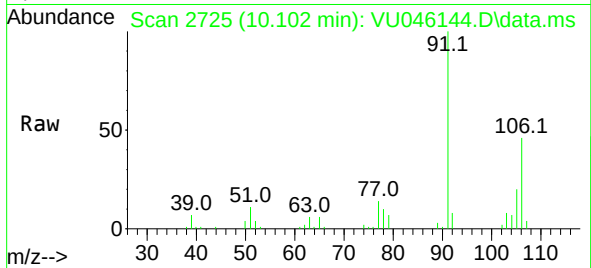




#54
o-xylene
Concen: 3.579 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

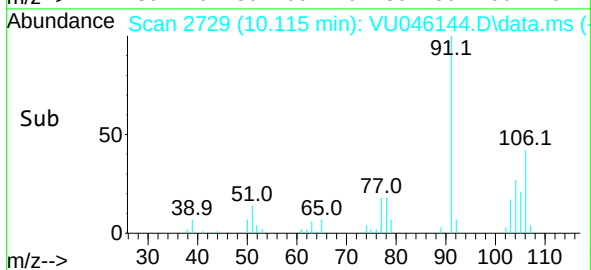
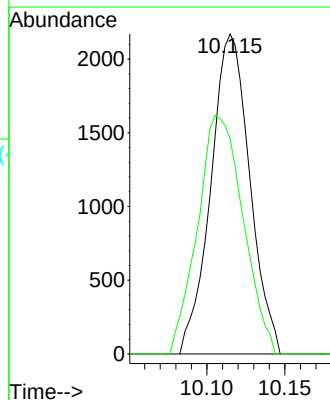
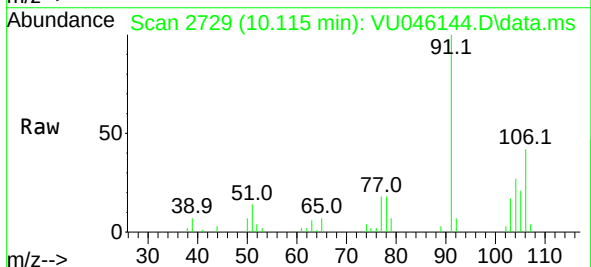
Instrument :
MSVOA_U
ClientSampleId :

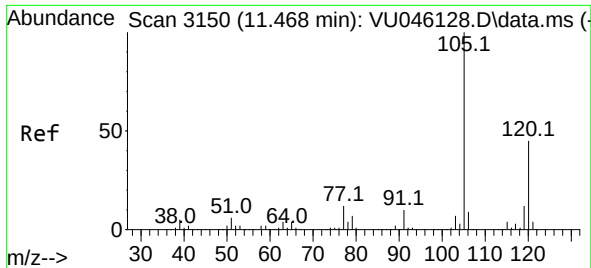
Tgt Ion:106 Resp: 11658
Ion Ratio Lower Upper
106 100
91 216.7 154.2 286.4



#55
Styrene
Concen: 0.678 ug/L
RT: 10.115 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

Tgt Ion:104 Resp: 3769
Ion Ratio Lower Upper
104 100
78 67.3 32.6 60.5#

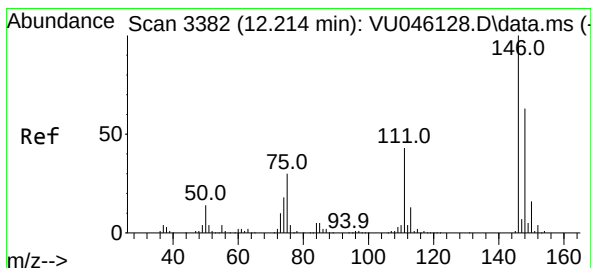
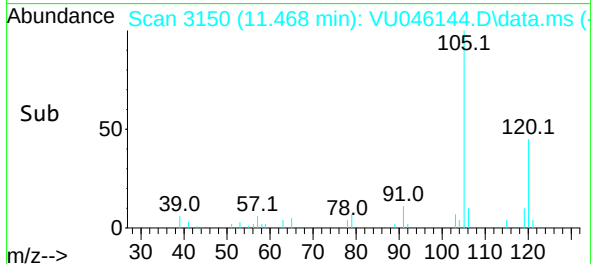
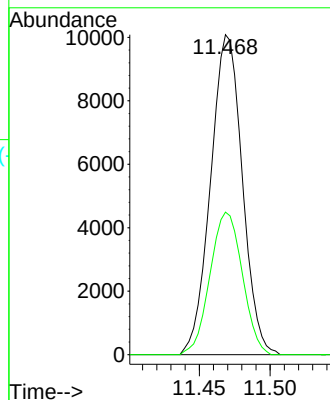
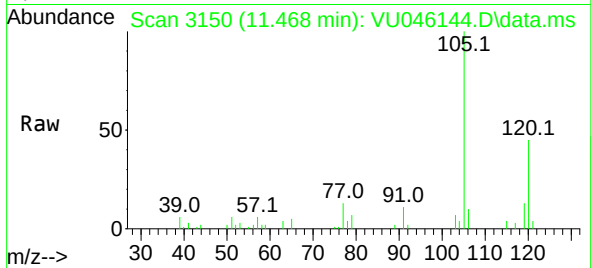




#63
1,2,4-Trimethylbenzene
Concen: 2.139 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

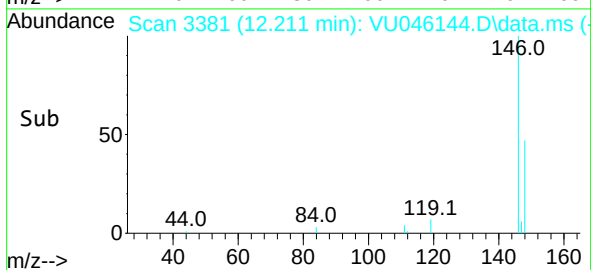
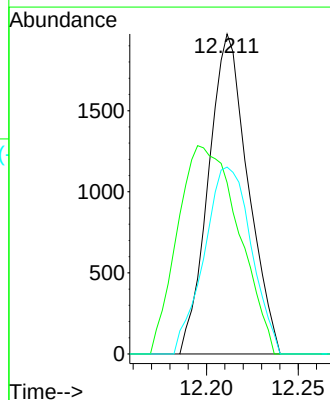
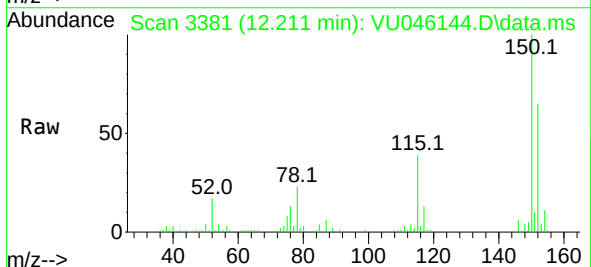
Instrument :
MSVOA_U
ClientSampleId :

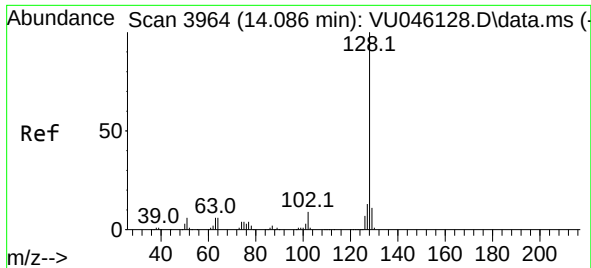
Tgt Ion:105 Resp: 15699
Ion Ratio Lower Upper
105 100
120 45.3 35.2 52.8



#67
1,2-Dichlorobenzene
Concen: 0.702 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

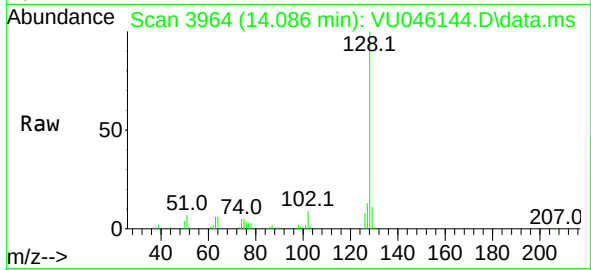
Tgt Ion:146 Resp: 2955
Ion Ratio Lower Upper
146 100
111 53.6 35.7 53.5#
148 58.4 51.2 76.8





#71
Naphthalene
Concen: 6.104 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046144.D
Acq: 07 Dec 2021 16:35

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	57406
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.6	8.6	13.0

