

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121121\
 Data File : VU046289.D
 Acq On : 11 Dec 2021 16:12
 Operator : SY/MD
 Sample : M4983-03DL 40X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 12 01:39:07 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	175606	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	182258	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	101797	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	52580	36.349	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.700%
7) Chloroethane-d5	1.916	69	44021	39.635	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.280%
11) 1,1-Dichloroethene-d2	2.572	63	75734	29.164	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	58.320%#
21) 2-Butanone-d5	4.633	46	125265	108.932	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.930%
24) Chloroform-d	5.067	84	112552	46.593	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.180%
26) 1,2-Dichloroethane-d4	5.707	65	79225	48.869	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.740%
32) Benzene-d6	5.729	84	229849	44.000	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.000%
36) 1,2-Dichloropropane-d6	6.694	67	77112	47.631	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.260%
41) Toluene-d8	7.899	98	195996	41.208	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.420%
43) trans-1,3-Dichloroprop...	8.179	79	36528	46.739	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.480%
47) 2-Hexanone-d5	8.636	63	89678	116.828	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.830%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	128118	52.182	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.360%
66) 1,2-Dichlorobenzene-d4	12.195	152	90988	46.412	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.820%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	44789	25.994	ug/L	98
8) Chloroethane	1.938	64	42317	42.417	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	669	0.524	ug/L #	21
12) 1,1-Dichloroethene	2.584	96	1288	1.061	ug/L #	1
17) trans-1,2-Dichloroethene	3.356	96	1848	1.438	ug/L	95
19) 1,1-Dichloroethane	3.874	63	135412	57.959	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	79143	56.764	ug/L	97
27) 1,2-Dichloroethane	5.797	62	1004	0.521	ug/L #	73
30) 1,1,1-Trichloroethane	5.321	97	22139	9.896	ug/L	98
31) Carbon tetrachloride	5.321	117	2726	1.435	ug/L	97
37) 1,2-Dichloropropane	6.694	63	7898	5.466	ug/L #	86
39) cis-1,3-Dichloropropene	7.565	75	2167	0.986	ug/L #	62
42) Toluene	7.970	91	22359	3.777	ug/L	100
44) trans-1,3-Dichloropropene	8.182	75	1557	0.721	ug/L	96
52) Ethylbenzene	9.571	91	38050	5.973	ug/L	99
53) m,p-Xylene	9.694	106	37435	15.069	ug/L	99
54) o-xylene	10.102	106	18257	7.574	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	26728	4.841	ug/L	97
63) 1,2,4-Trimethylbenzene	11.468	105	135879	24.601	ug/L	99

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QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

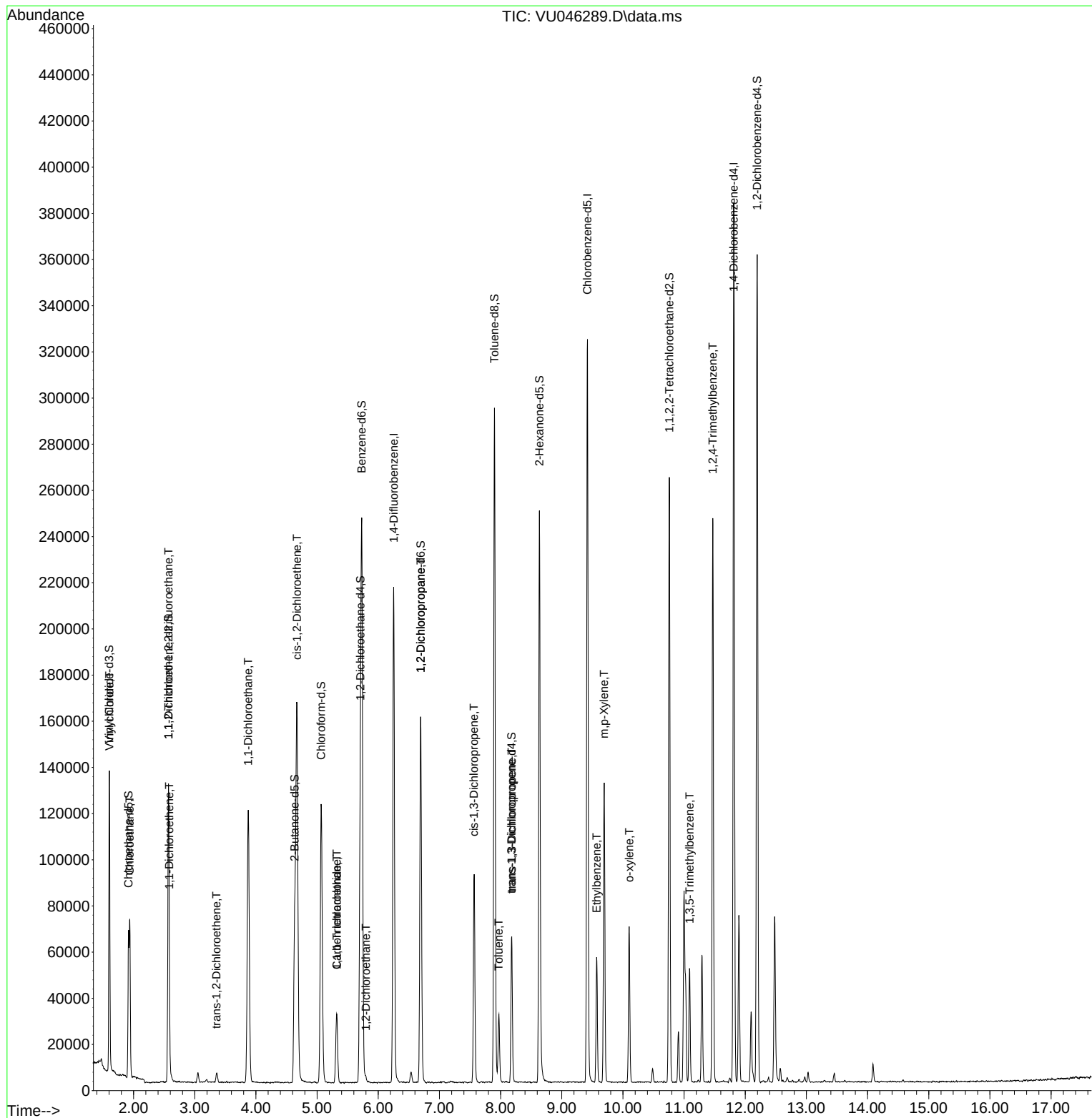
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

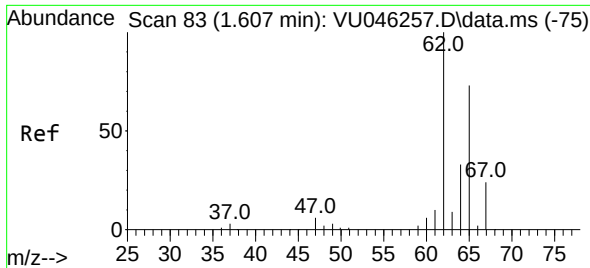
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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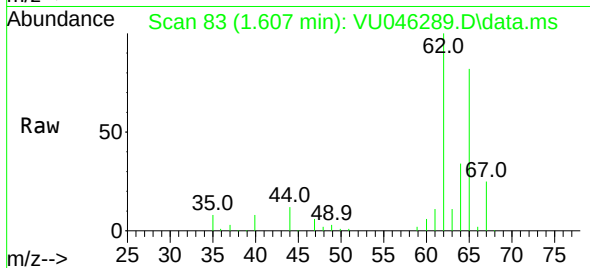
Quant Time: Dec 12 01:39:07 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
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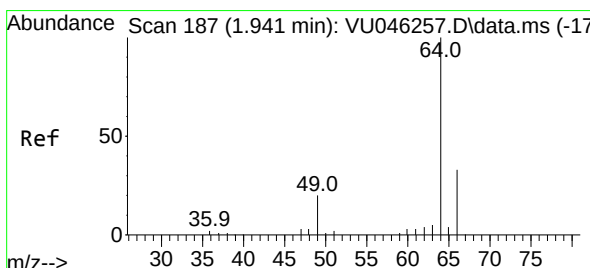
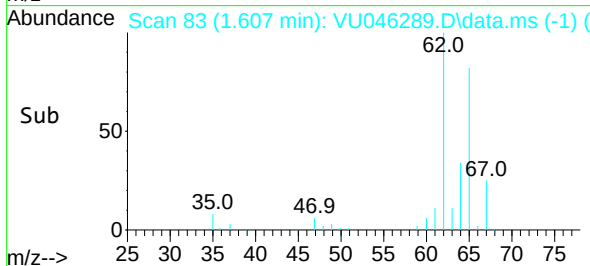
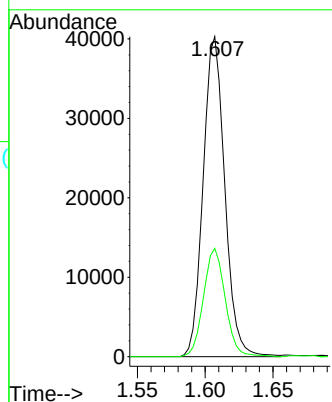


#5
 Vinyl chloride
 Concen: 25.994 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046289.D
 Acq: 11 Dec 2021 16:12

Instrument :
 MSVOA_U
 ClientSampleId :

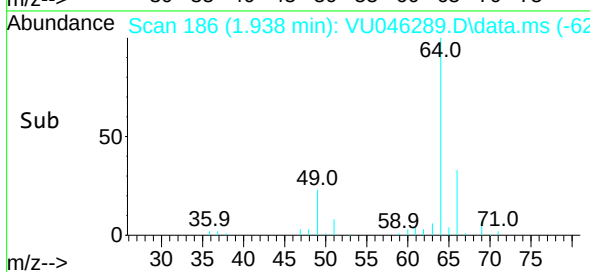
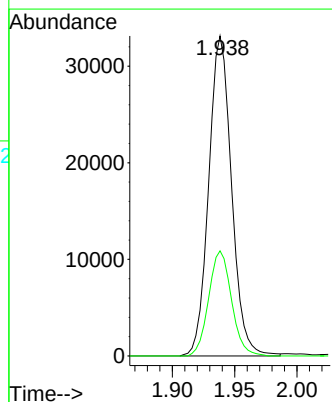
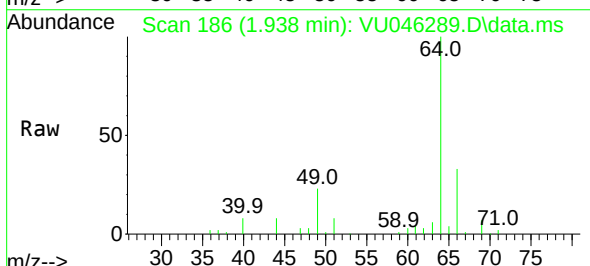


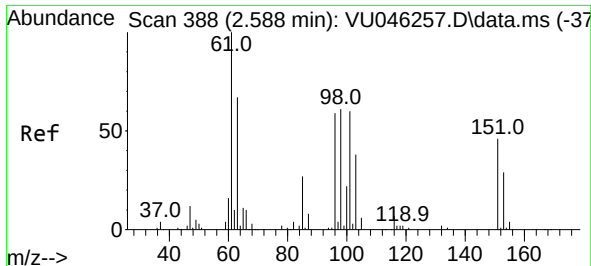
Tgt Ion: 62 Resp: 44789
 Ion Ratio Lower Upper
 62 100
 64 33.9 22.9 42.5



#8
 Chloroethane
 Concen: 42.417 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. 0.000 min
 Lab File: VU046289.D
 Acq: 11 Dec 2021 16:12

Tgt Ion: 64 Resp: 42317
 Ion Ratio Lower Upper
 64 100
 66 32.8 22.5 41.9

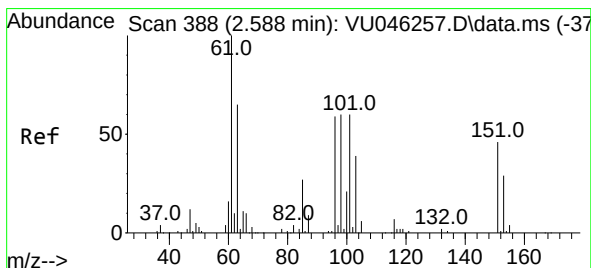
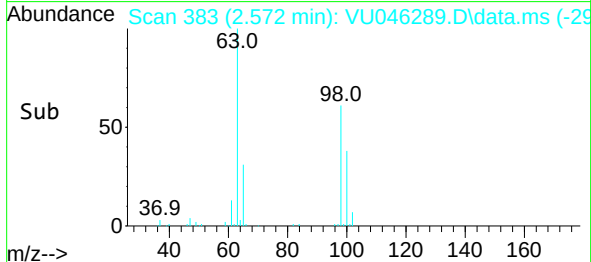
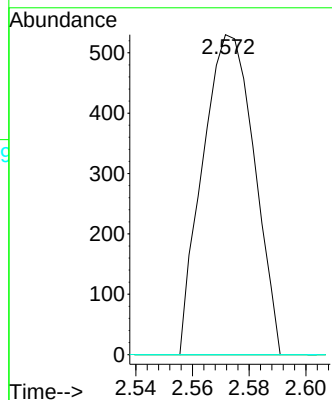
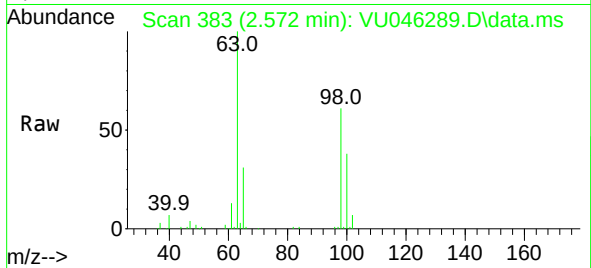




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.524 ug/L
RT: 2.572 min Scan# 383
Delta R.T. -0.016 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

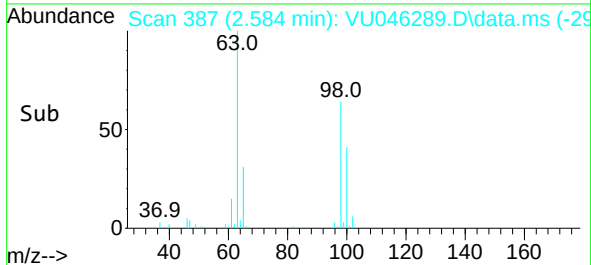
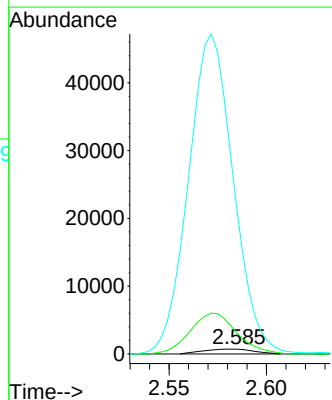
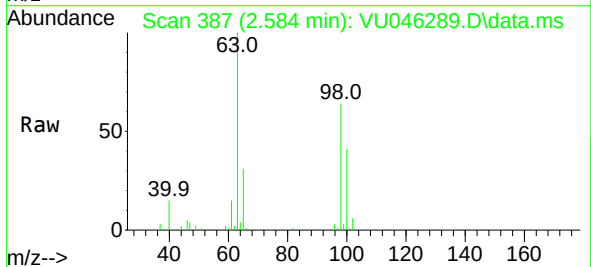
Instrument :
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ClientSampleId :

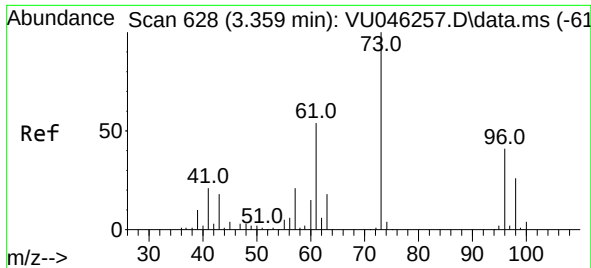
Tgt Ion:101 Resp: 669
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 1.061 ug/L
RT: 2.584 min Scan# 387
Delta R.T. 0.000 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

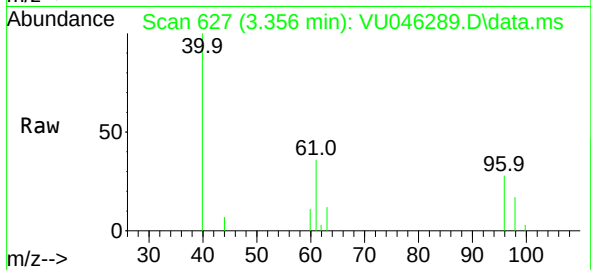
Tgt Ion: 96 Resp: 1288
Ion Ratio Lower Upper
96 100
61 445.0 118.6 220.2#
63 3047.8 93.0 172.8#



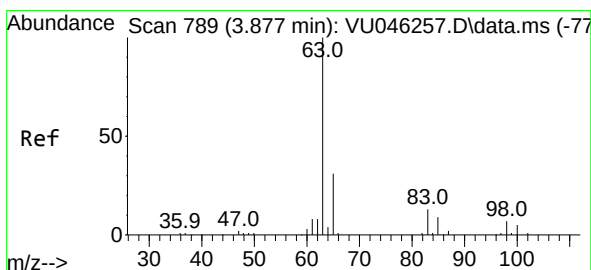
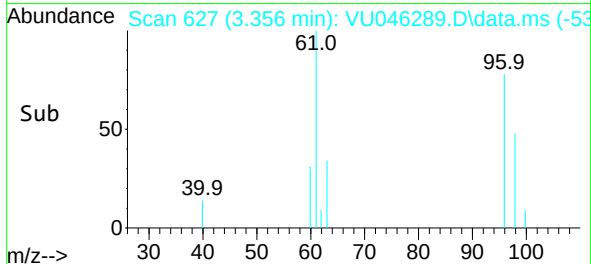
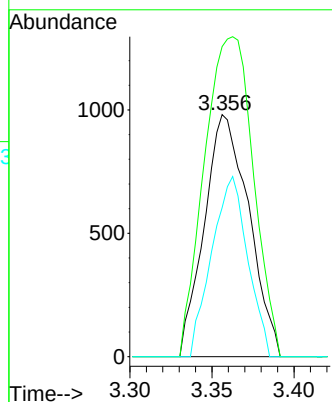


#17
trans-1,2-Dichloroethene
Concen: 1.438 ug/L
RT: 3.356 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :

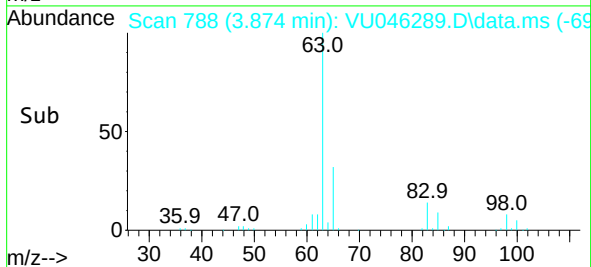
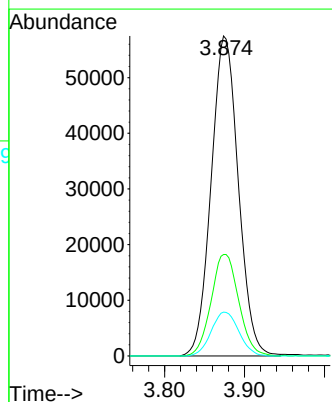
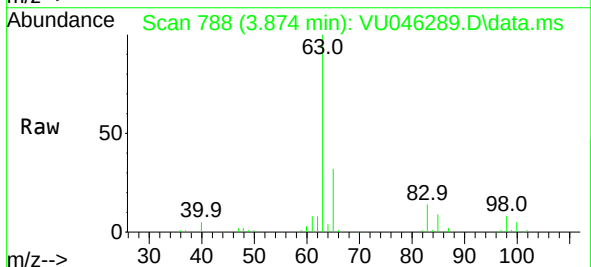


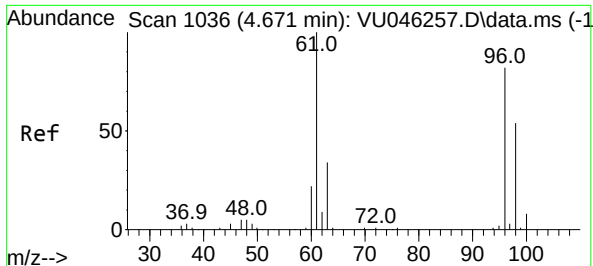
Tgt Ion: 96 Resp: 1848
Ion Ratio Lower Upper
96 100
61 128.1 94.6 175.6
98 61.6 44.0 81.8



#19
1,1-Dichloroethane
Concen: 57.959 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

Tgt Ion: 63 Resp: 135412
Ion Ratio Lower Upper
63 100
65 31.7 22.8 42.4
83 13.7 9.6 17.8

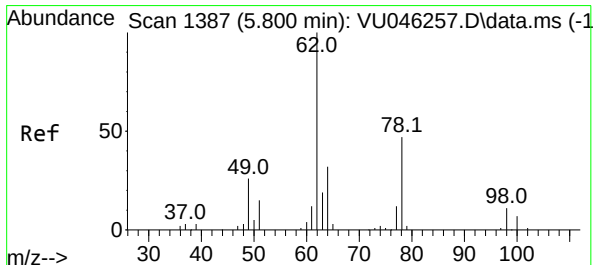
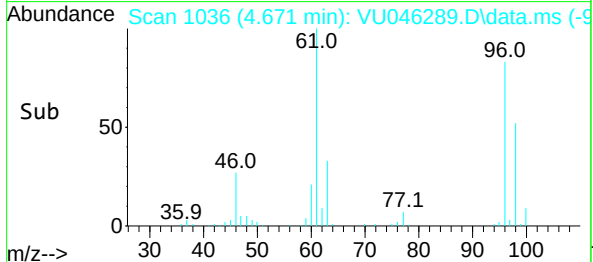
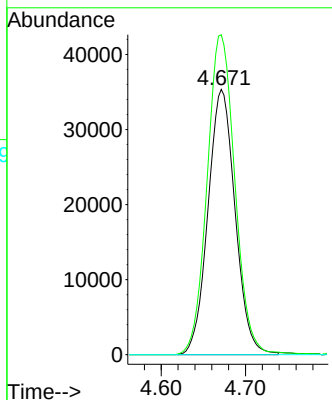
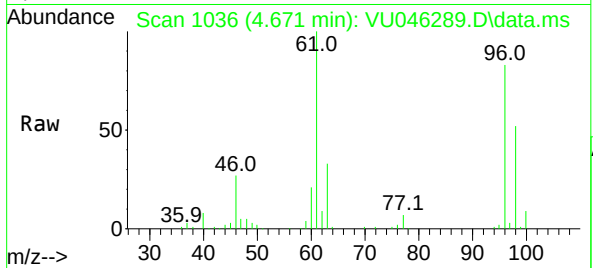




#20
 cis-1,2-Dichloroethene
 Concen: 56.764 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VU046289.D
 Acq: 11 Dec 2021 16:12

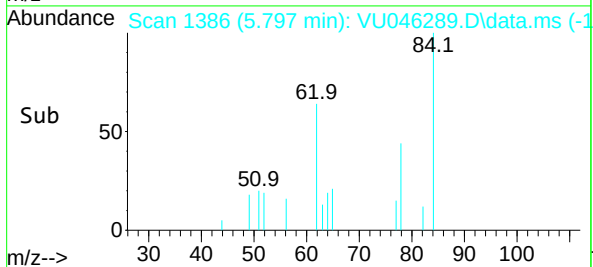
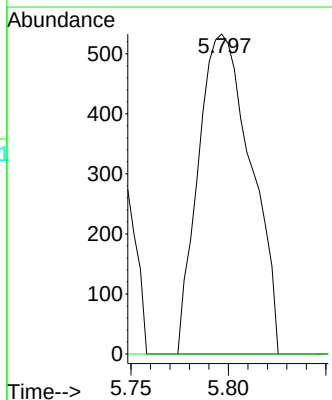
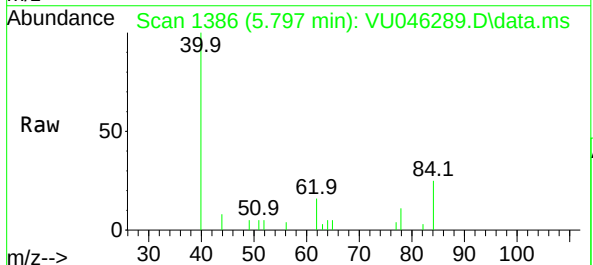
Instrument :
 MSVOA_U
 ClientSampleId :

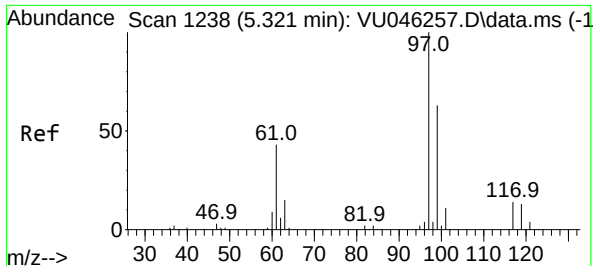
Tgt Ion: 96 Resp: 79143
 Ion Ratio Lower Upper
 96 100
 61 120.6 86.8 161.2
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 0.521 ug/L
 RT: 5.797 min Scan# 1386
 Delta R.T. -0.003 min
 Lab File: VU046289.D
 Acq: 11 Dec 2021 16:12

Tgt Ion: 62 Resp: 1004
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.9 11.9#





#30

1,1,1-Trichloroethane

Concen: 9.896 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046289.D

Acq: 11 Dec 2021 16:12

Instrument :

MSVOA_U

ClientSampleId :

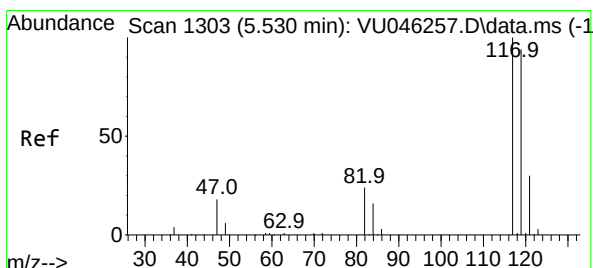
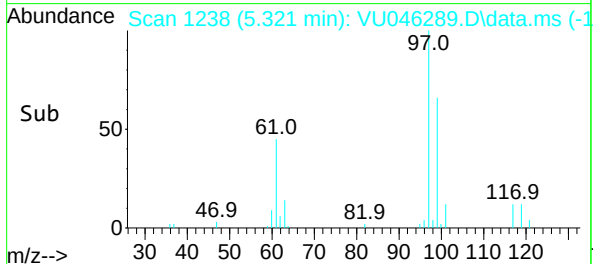
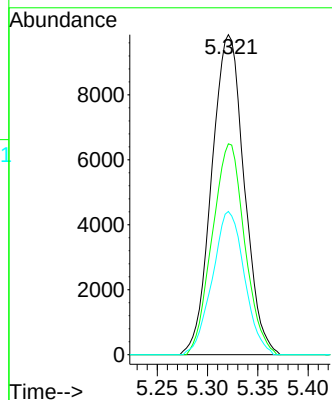
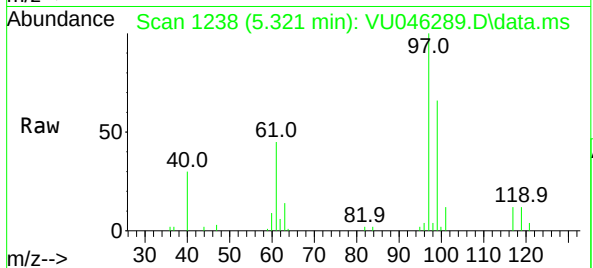
Tgt Ion: 97 Resp: 22139

Ion Ratio Lower Upper

97 100

99 65.9 51.8 77.6

61 44.2 34.4 51.6



#31

Carbon tetrachloride

Concen: 1.435 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU046289.D

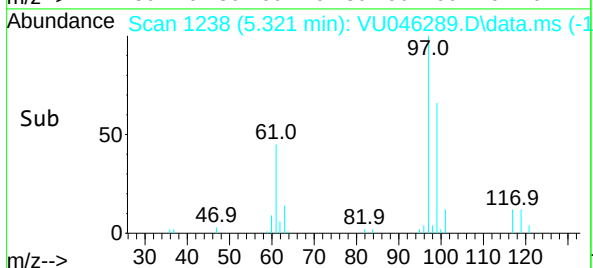
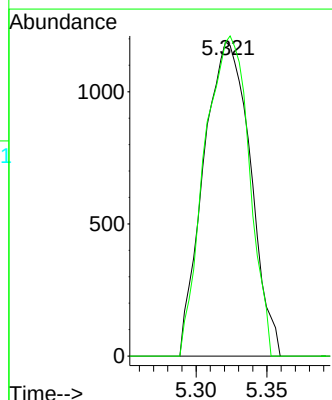
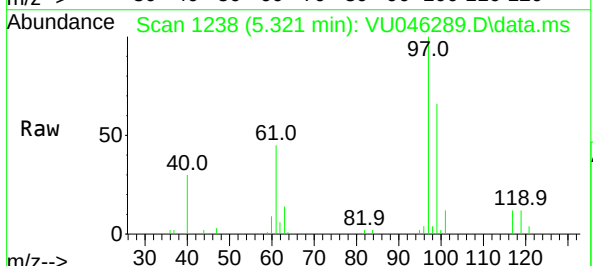
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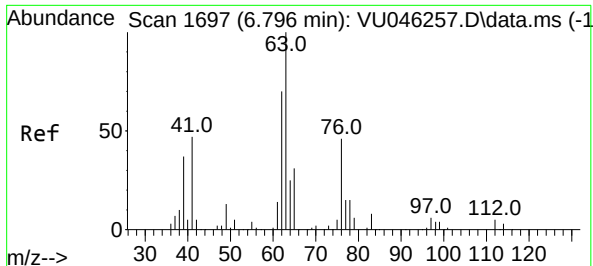
Tgt Ion: 117 Resp: 2726

Ion Ratio Lower Upper

117 100

119 97.2 75.7 113.5





#37

1,2-Dichloropropane

Concen: 5.466 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046289.D

Acq: 11 Dec 2021 16:12

Instrument :

MSVOA_U

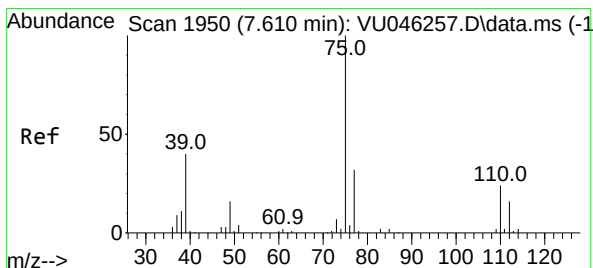
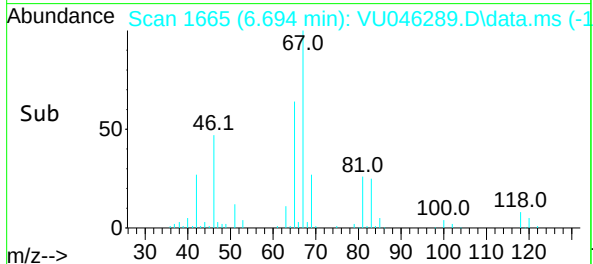
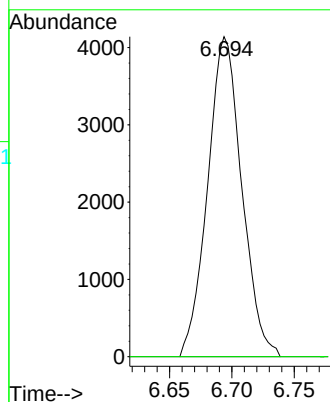
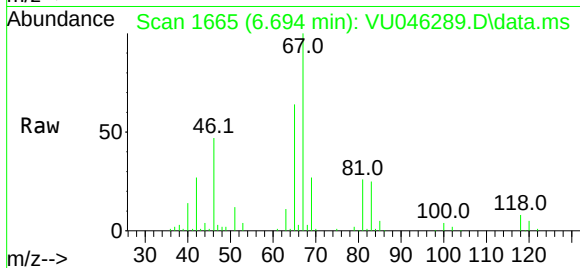
ClientSampleId :

Tgt Ion: 63 Resp: 7898

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.986 ug/L

RT: 7.565 min Scan# 1936

Delta R.T. -0.045 min

Lab File: VU046289.D

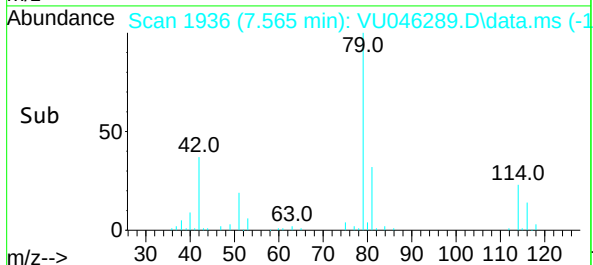
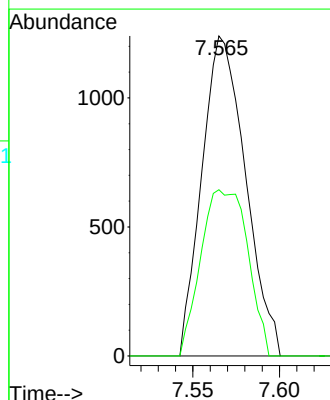
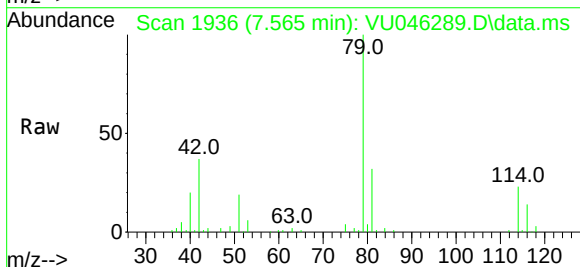
Acq: 11 Dec 2021 16:12

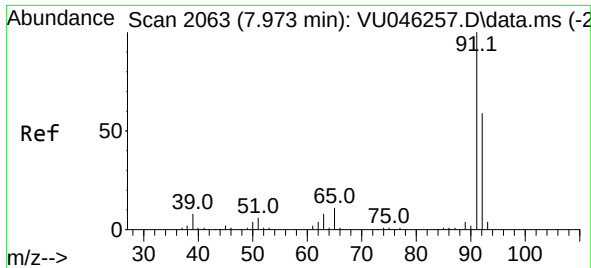
Tgt Ion: 75 Resp: 2167

Ion Ratio Lower Upper

75 100

77 51.9 21.8 40.6#





#42

Toluene

Concen: 3.777 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046289.D

Acq: 11 Dec 2021 16:12

Instrument :

MSVOA_U

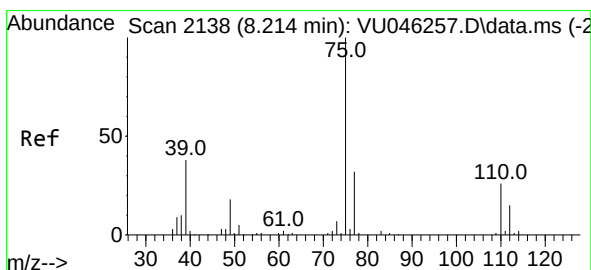
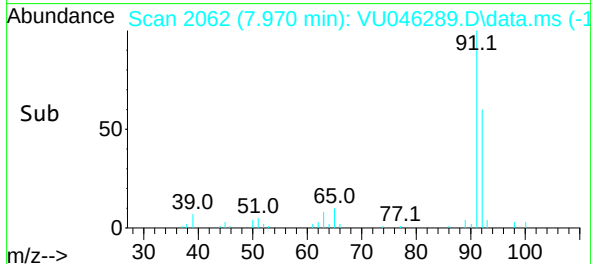
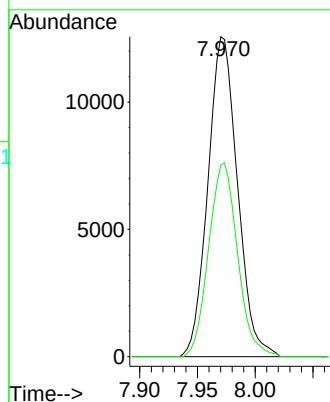
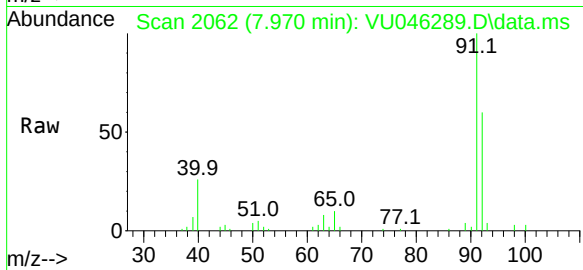
ClientSampleId :

Tgt Ion: 91 Resp: 22359

Ion Ratio Lower Upper

91 100

92 59.9 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 0.721 ug/L

RT: 8.182 min Scan# 2128

Delta R.T. -0.032 min

Lab File: VU046289.D

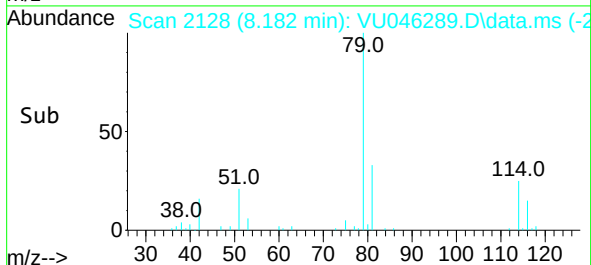
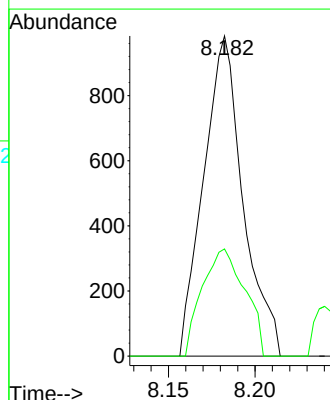
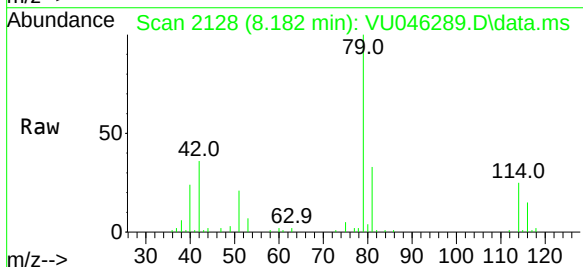
Acq: 11 Dec 2021 16:12

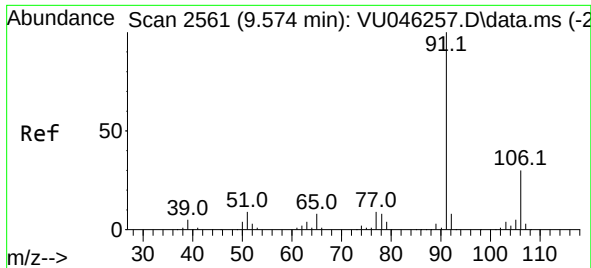
Tgt Ion: 75 Resp: 1557

Ion Ratio Lower Upper

75 100

77 33.5 21.7 40.3

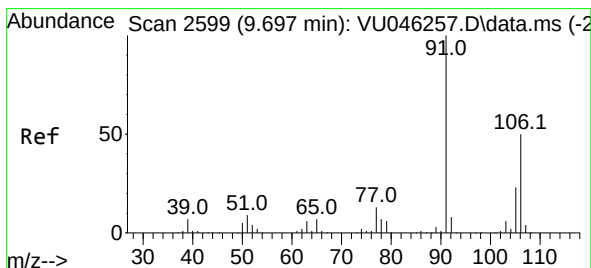
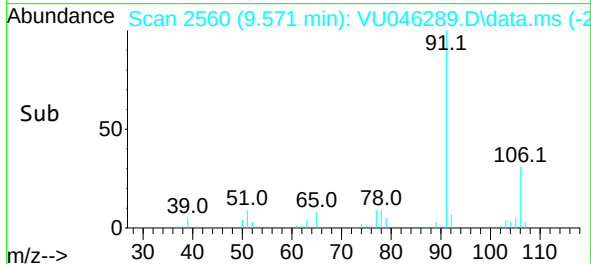
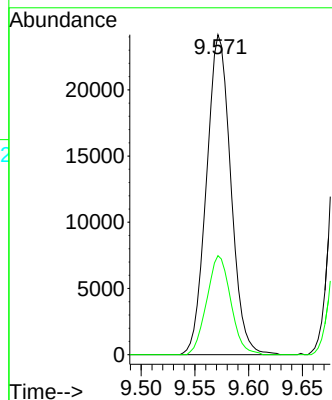
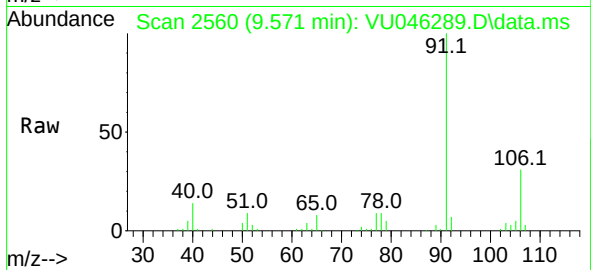




#52
Ethylbenzene
Concen: 5.973 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

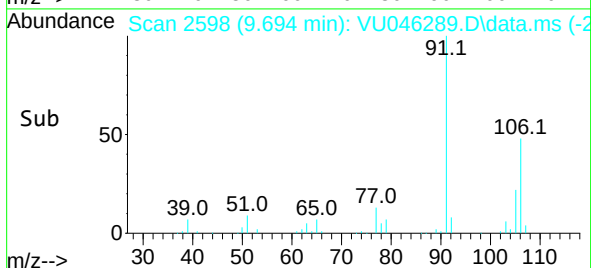
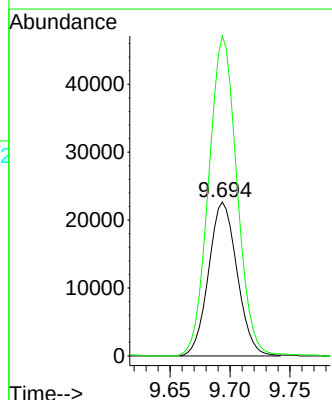
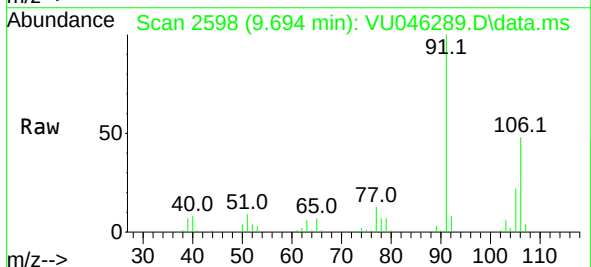
Instrument :
MSVOA_U
ClientSampleId :

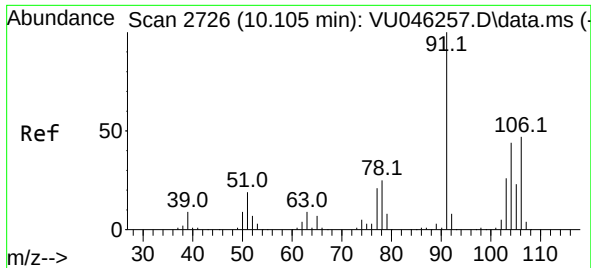
Tgt Ion: 91 Resp: 38050
Ion Ratio Lower Upper
91 100
106 30.9 21.1 39.3



#53
m,p-Xylene
Concen: 15.069 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

Tgt Ion: 106 Resp: 37435
Ion Ratio Lower Upper
106 100
91 208.0 144.3 268.1

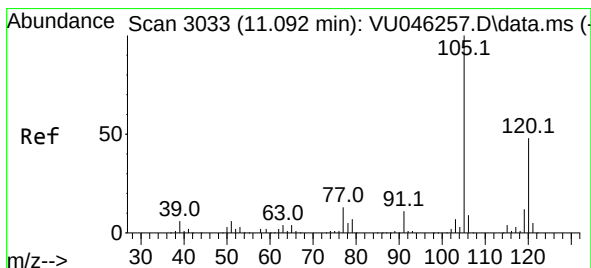
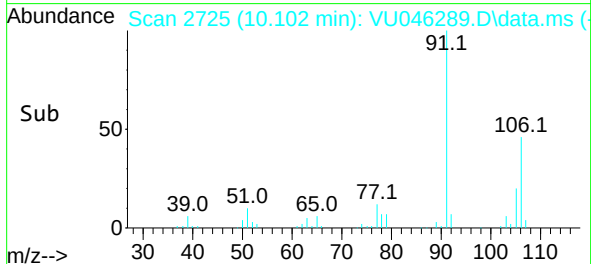
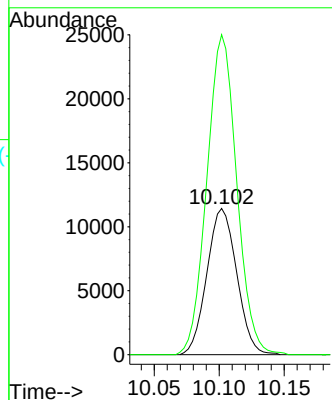
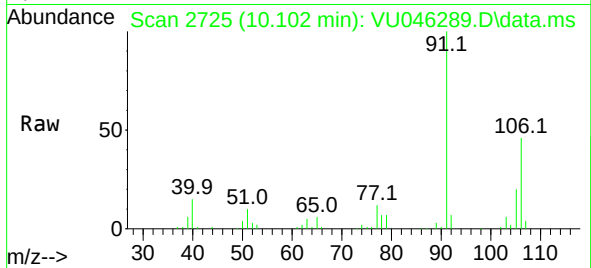




#54
o-xylene
Concen: 7.574 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

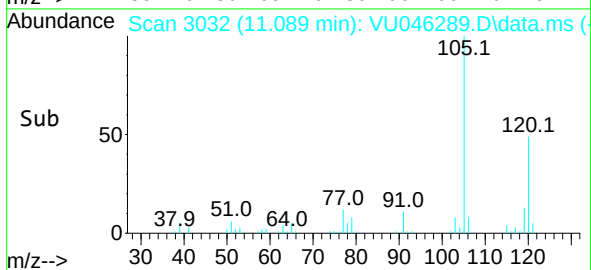
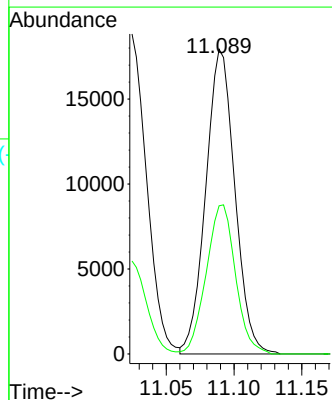
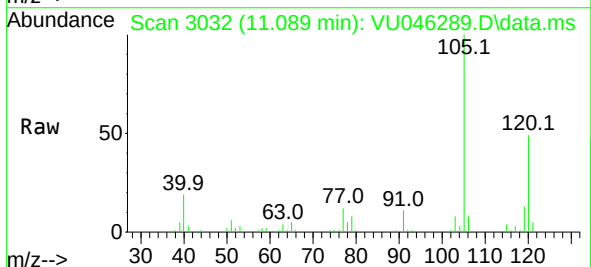
Instrument :
MSVOA_U
ClientSampleId :

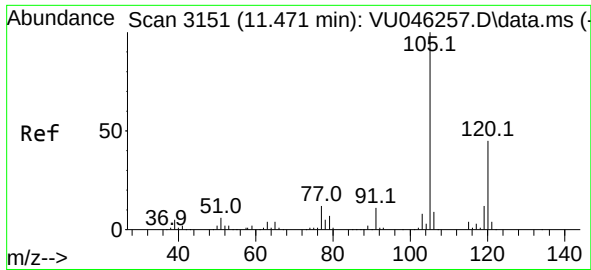
Tgt Ion:106 Resp: 18257
Ion Ratio Lower Upper
106 100
91 218.8 154.2 286.4



#62
1,3,5-Trimethylbenzene
Concen: 4.841 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046289.D
Acq: 11 Dec 2021 16:12

Tgt Ion:105 Resp: 26728
Ion Ratio Lower Upper
105 100
120 49.3 37.8 56.6





#63
 1,2,4-Trimethylbenzene
 Concen: 24.601 ug/L
 RT: 11.468 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VU046289.D
 Acq: 11 Dec 2021 16:12

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:105 Resp: 135879
 Ion Ratio Lower Upper
 105 100
 120 44.8 35.2 52.8

