

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121521\
 Data File : VU046391.D
 Acq On : 15 Dec 2021 12:52
 Operator : SY/MD
 Sample : M4997-06DL 50X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 16 03:09:03 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 16 02:25:11 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	147468	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	150349	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	81795	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	40551	33.382	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	66.760%
7) Chloroethane-d5	1.919	69	33642	36.070	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	72.140%
11) 1,1-Dichloroethene-d2	2.575	63	58638	26.889	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.780%#
21) 2-Butanone-d5	4.639	46	90923	94.154	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.150%
24) Chloroform-d	5.067	84	91442	45.077	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.160%
26) 1,2-Dichloroethane-d4	5.707	65	61169	44.930	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.860%
32) Benzene-d6	5.732	84	170542	39.576	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.160%
36) 1,2-Dichloropropane-d6	6.694	67	56191	42.074	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.140%
41) Toluene-d8	7.899	98	143733	36.633	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	73.260%#
43) trans-1,3-Dichloroprop...	8.182	79	26110	40.500	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.000%
47) 2-Hexanone-d5	8.636	63	65652	103.680	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.680%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	92891	45.864	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.720%
66) 1,2-Dichlorobenzene-d4	12.195	152	64008	40.634	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.260%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	32432	22.414	ug/L	99
8) Chloroethane	1.941	64	1915	2.286	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	424	0.395	ug/L #	21
12) 1,1-Dichloroethene	2.588	96	1641	1.609	ug/L #	1
17) trans-1,2-Dichloroethene	3.363	96	2502	2.319	ug/L	93
19) 1,1-Dichloroethane	3.877	63	167638	85.443	ug/L	100
20) cis-1,2-Dichloroethene	4.671	96	170758	145.841	ug/L	99
27) 1,2-Dichloroethane	5.803	62	742	0.459	ug/L #	73
30) 1,1,1-Trichloroethane	5.321	97	8166	4.425	ug/L	97
31) Carbon tetrachloride	5.314	117	849	0.542	ug/L	93
34) Trichloroethene	6.546	95	7285	6.077	ug/L	96
35) Methylcyclohexane	6.694	83	13933	7.496	ug/L #	20
37) 1,2-Dichloropropane	6.694	63	6252	5.245	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	1598	0.881	ug/L #	39
52) Ethylbenzene	9.571	91	6783	1.291	ug/L	85
53) m,p-Xylene	9.693	106	5475	2.672	ug/L	97
54) o-xylene	10.102	106	6300	3.168	ug/L	91
62) 1,3,5-Trimethylbenzene	11.089	105	6744	1.520	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	33193	7.479	ug/L	97

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QLast Update : Thu Dec 16 02:25:11 2021
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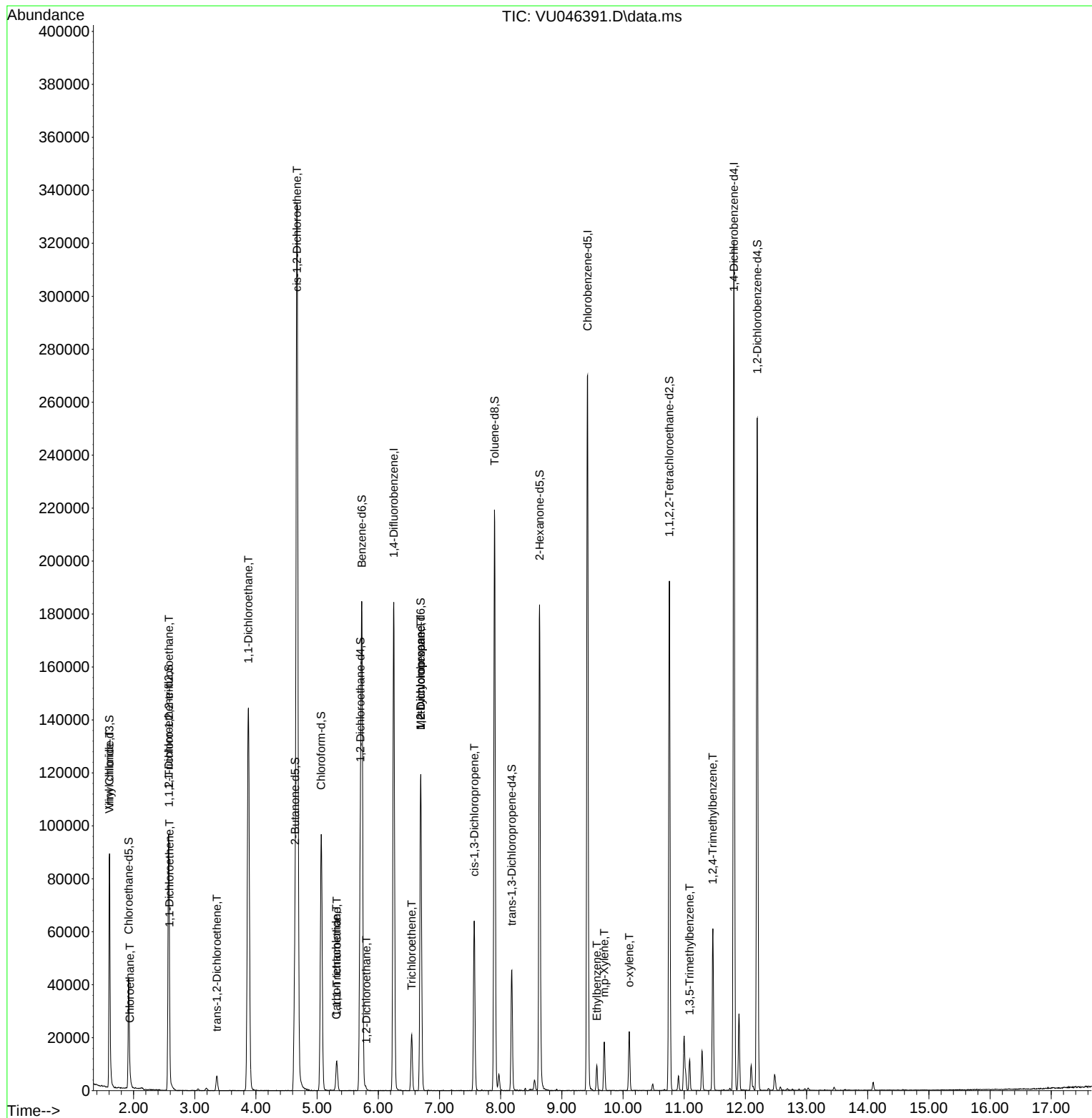
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

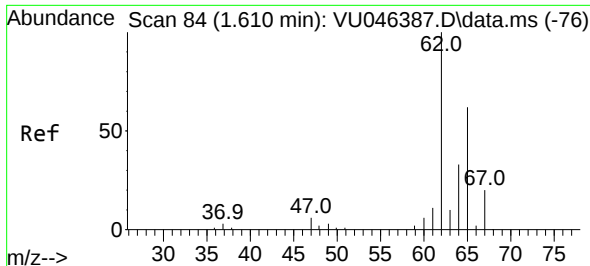
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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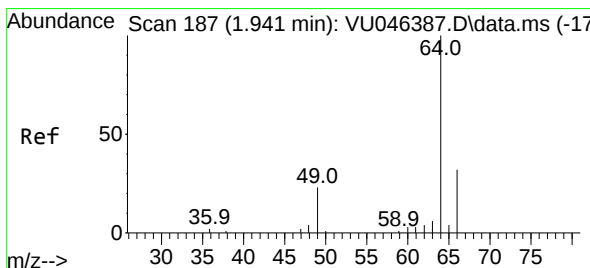
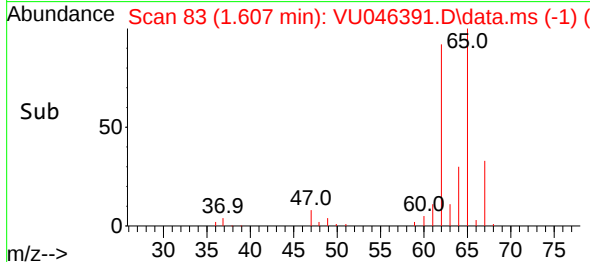
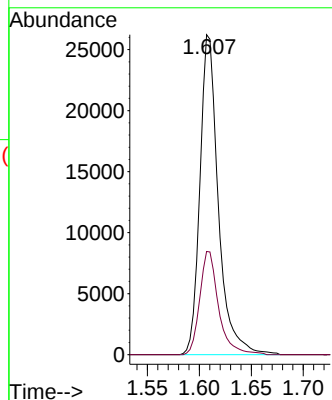
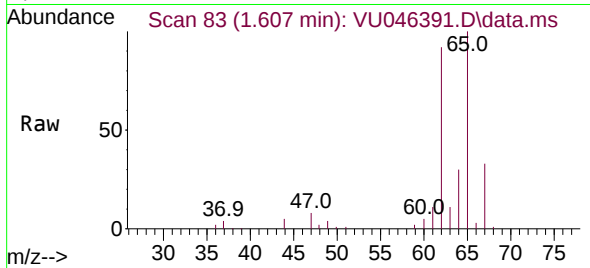




#5
 Vinyl chloride
 Concen: 22.414 ug/L
 RT: 1.607 min Scan# 84
 Delta R.T. -0.003 min
 Lab File: VU046391.D
 Acq: 15 Dec 2021 12:52

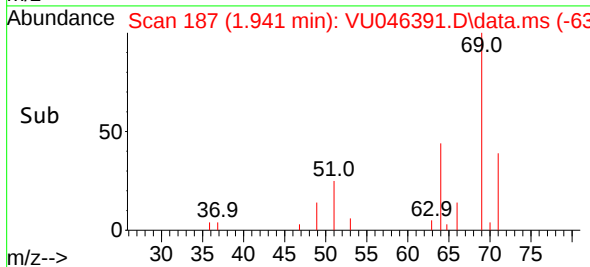
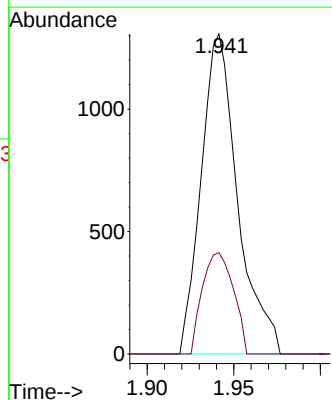
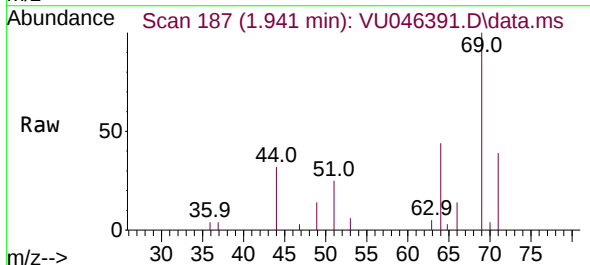
Instrument :
 MSVOA_U
 ClientSampleId :

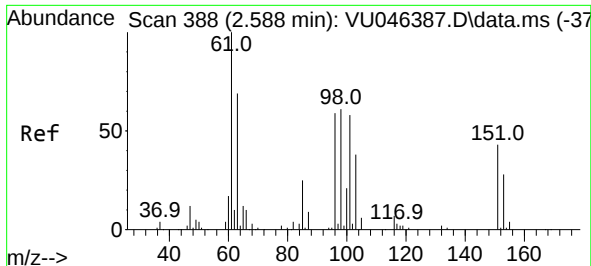
Tgt Ion: 62 Resp: 32432
 Ion Ratio Lower Upper
 62 100
 64 32.3 22.9 42.5



#8
 Chloroethane
 Concen: 2.286 ug/L
 RT: 1.941 min Scan# 187
 Delta R.T. -0.000 min
 Lab File: VU046391.D
 Acq: 15 Dec 2021 12:52

Tgt Ion: 64 Resp: 1915
 Ion Ratio Lower Upper
 64 100
 66 29.3 22.5 41.9

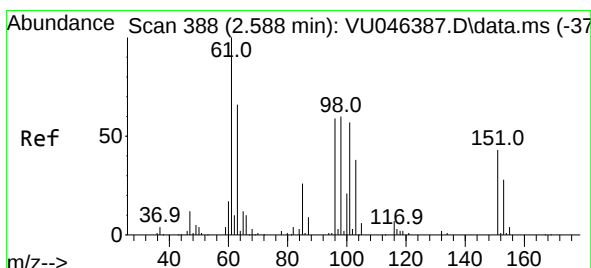
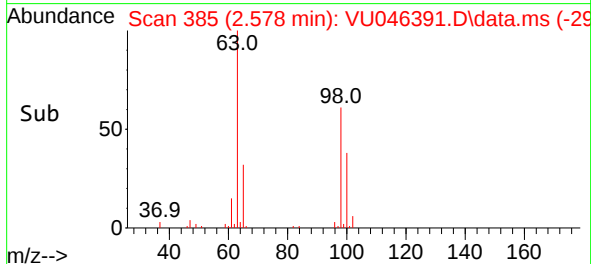
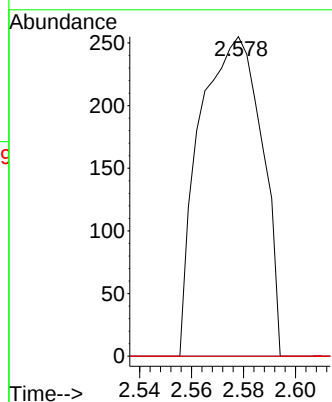
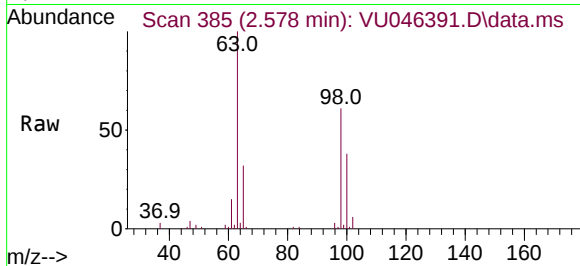




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.395 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. -0.010 min
 Lab File: VU046391.D
 Acq: 15 Dec 2021 12:52

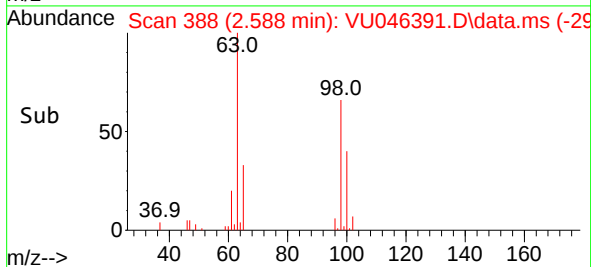
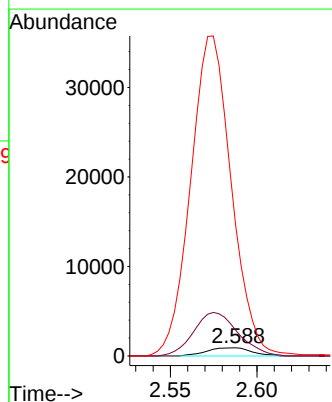
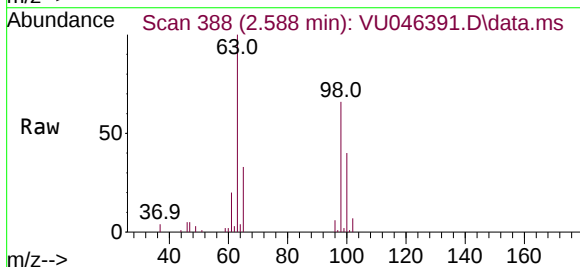
Instrument :
 MSVOA_U
 ClientSampleId :

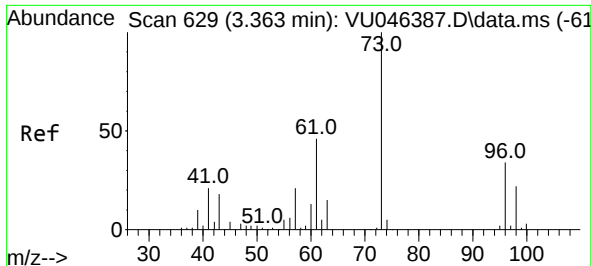
Tgt Ion:101 Resp: 424
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#



#12
 1,1-Dichloroethene
 Concen: 1.609 ug/L
 RT: 2.588 min Scan# 388
 Delta R.T. -0.000 min
 Lab File: VU046391.D
 Acq: 15 Dec 2021 12:52

Tgt Ion: 96 Resp: 1641
 Ion Ratio Lower Upper
 96 100
 61 313.7 118.6 220.2#
 63 1593.7 93.0 172.8#





#17

trans-1,2-Dichloroethene

Concen: 2.319 ug/L

RT: 3.363 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

Instrument :

MSVOA_U

ClientSampleId :

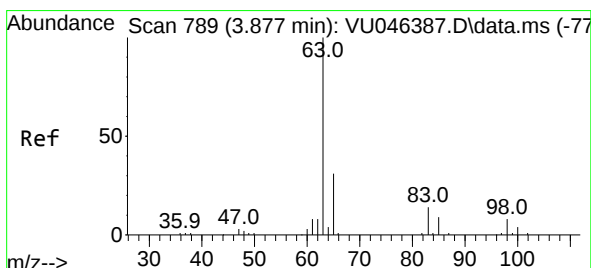
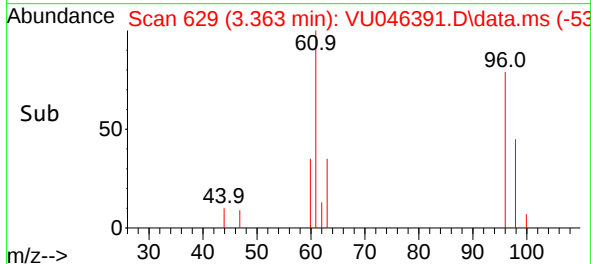
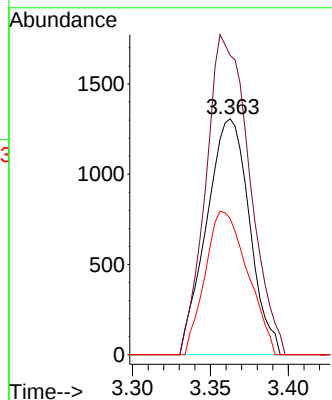
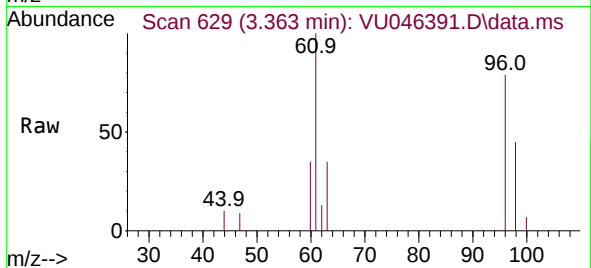
Tgt Ion: 96 Resp: 2502

Ion Ratio Lower Upper

96 100

61 126.9 94.6 175.6

98 57.7 44.0 81.8



#19

1,1-Dichloroethane

Concen: 85.443 ug/L

RT: 3.877 min Scan# 789

Delta R.T. -0.000 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

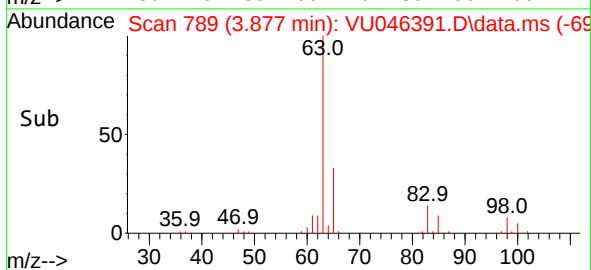
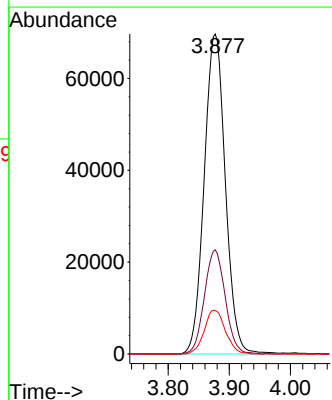
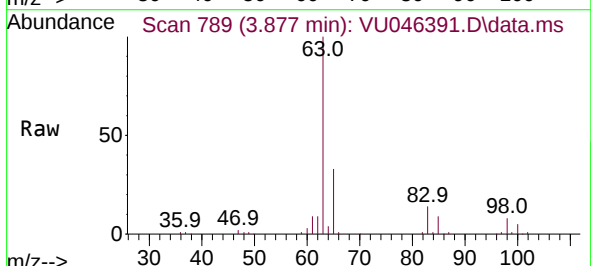
Tgt Ion: 63 Resp: 167638

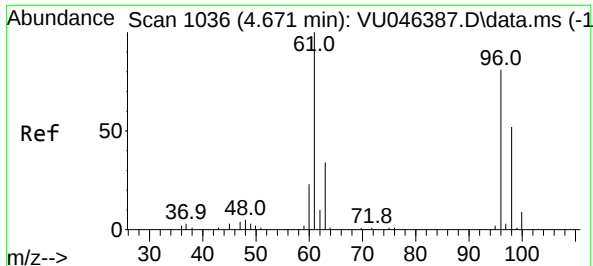
Ion Ratio Lower Upper

63 100

65 32.5 22.8 42.4

83 13.5 9.6 17.8





#20

cis-1,2-Dichloroethene

Concen: 145.841 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

Instrument :

MSVOA_U

ClientSampleId :

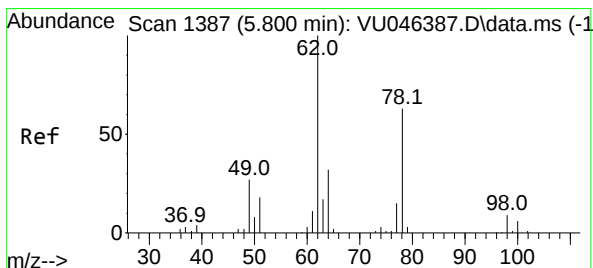
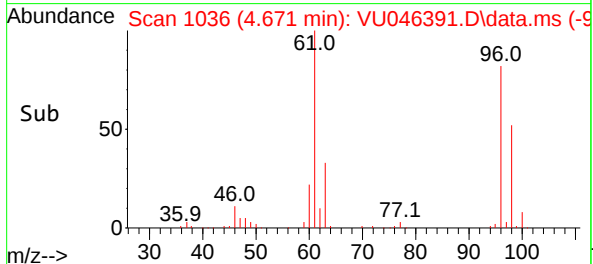
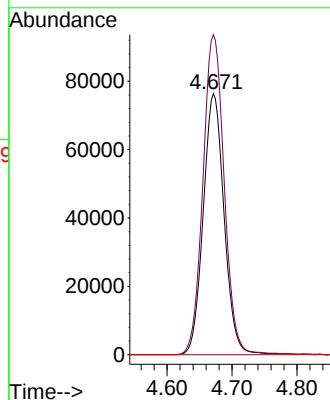
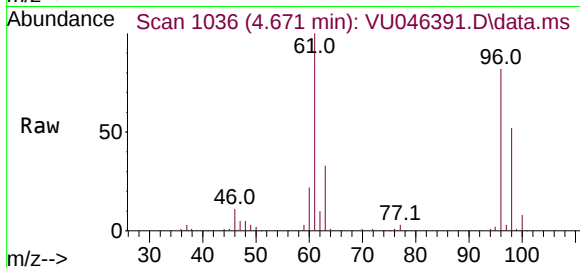
Tgt Ion: 96 Resp: 170758

Ion Ratio Lower Upper

96 100

61 122.6 86.8 161.2

68 0.0 0.0 0.0



#27

1,2-Dichloroethane

Concen: 0.459 ug/L

RT: 5.803 min Scan# 1388

Delta R.T. 0.003 min

Lab File: VU046391.D

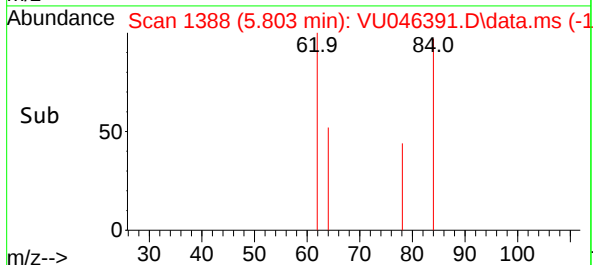
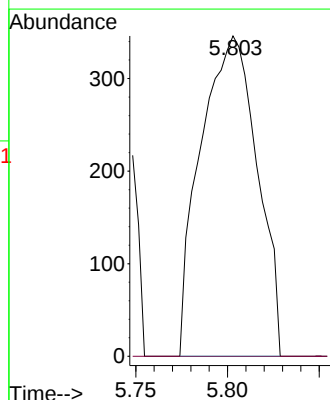
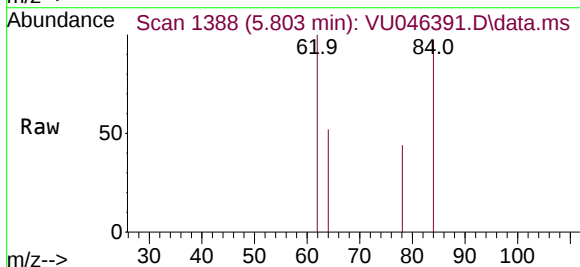
Acq: 15 Dec 2021 12:52

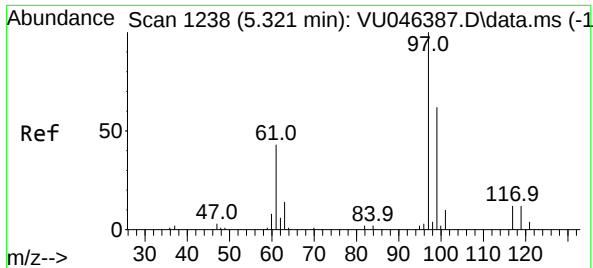
Tgt Ion: 62 Resp: 742

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#





#30

1,1,1-Trichloroethane

Concen: 4.425 ug/L

RT: 5.321 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

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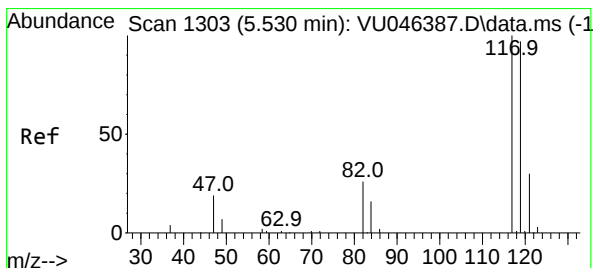
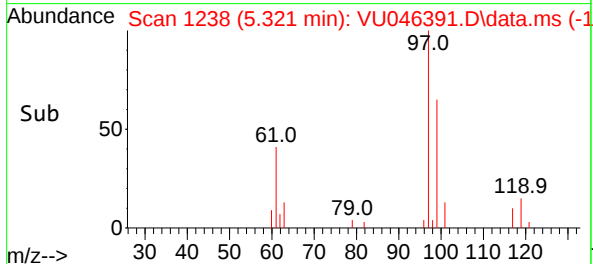
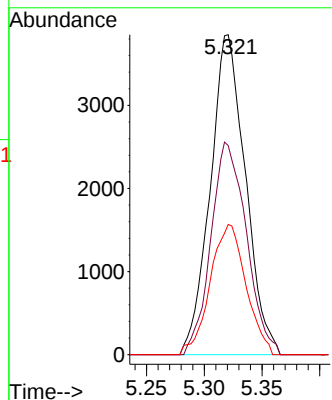
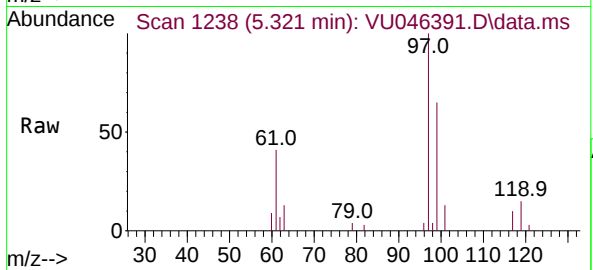
Tgt Ion: 97 Resp: 8166

Ion Ratio Lower Upper

97 100

99 66.9 51.8 77.6

61 40.8 34.4 51.6



#31

Carbon tetrachloride

Concen: 0.542 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.216 min

Lab File: VU046391.D

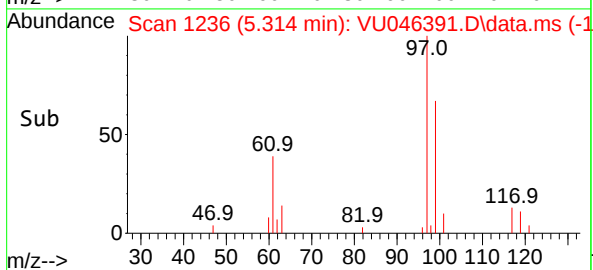
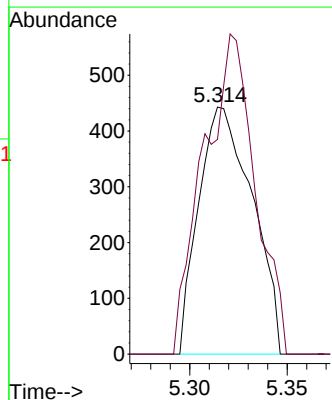
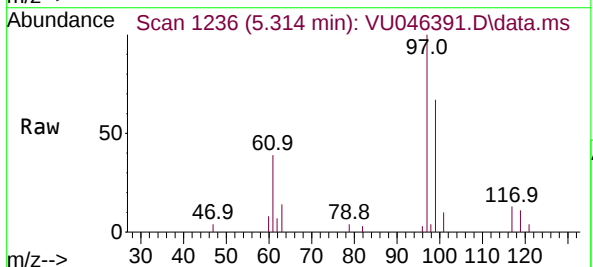
Acq: 15 Dec 2021 12:52

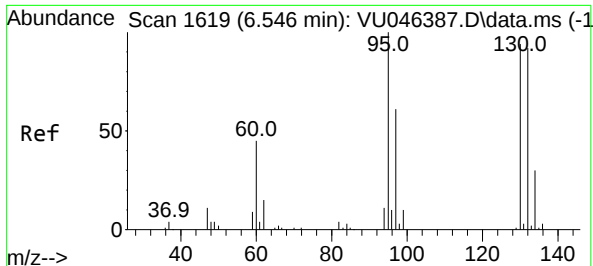
Tgt Ion: 117 Resp: 849

Ion Ratio Lower Upper

117 100

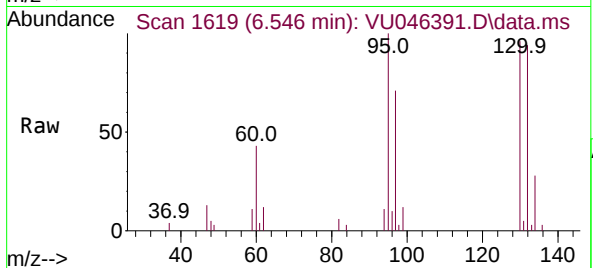
119 87.4 75.7 113.5





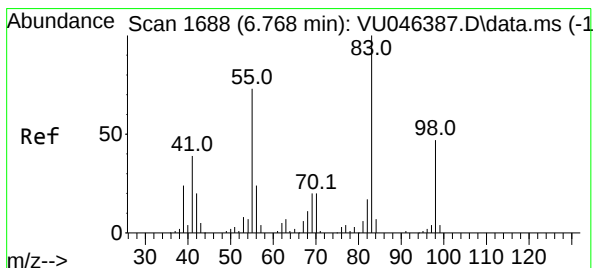
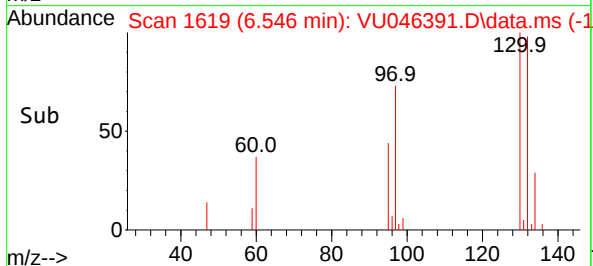
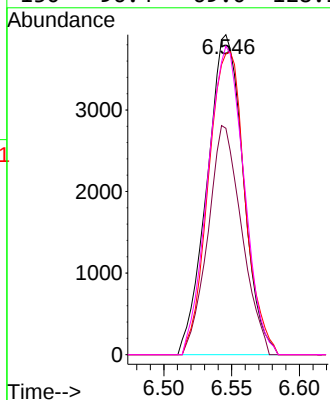
#34
Trichloroethene
Concen: 6.077 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU046391.D
Acq: 15 Dec 2021 12:52

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 95 Resp: 7285

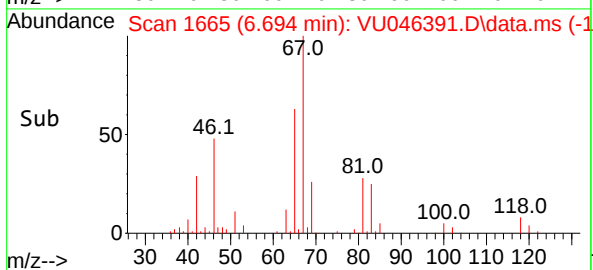
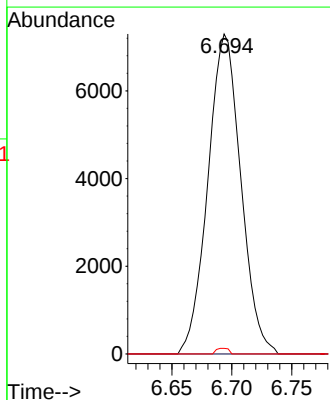
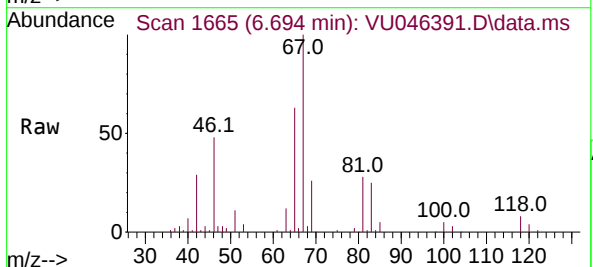
Ion	Ratio	Lower	Upper
95	100		
97	70.7	44.1	81.9
132	94.0	66.8	124.0
130	96.4	69.0	128.1

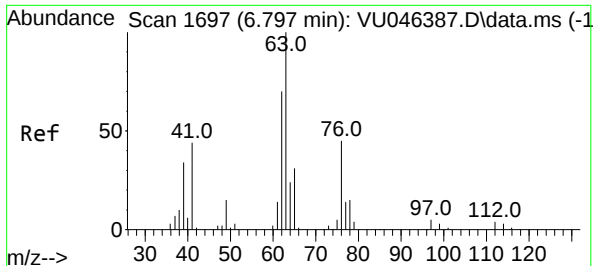


#35
Methylcyclohexane
Concen: 7.496 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.074 min
Lab File: VU046391.D
Acq: 15 Dec 2021 12:52

Tgt Ion: 83 Resp: 13933

Ion	Ratio	Lower	Upper
83	100		
55	0.0	57.8	86.6#
98	0.7	38.4	57.6#





#37

1,2-Dichloropropane

Concen: 5.245 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

Instrument :

MSVOA_U

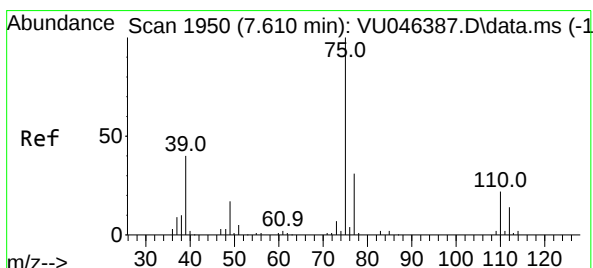
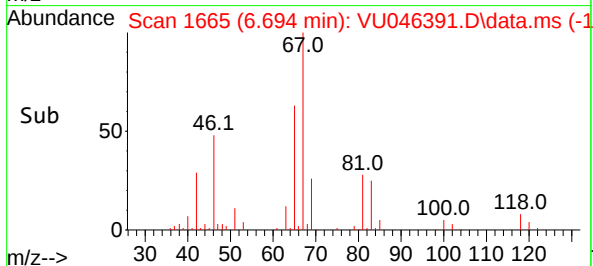
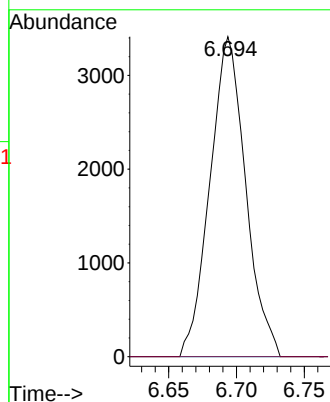
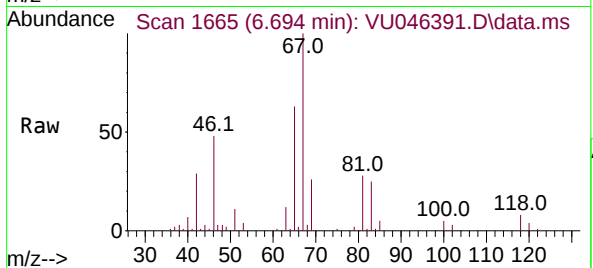
ClientSampleId :

Tgt Ion: 63 Resp: 6252

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.881 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046391.D

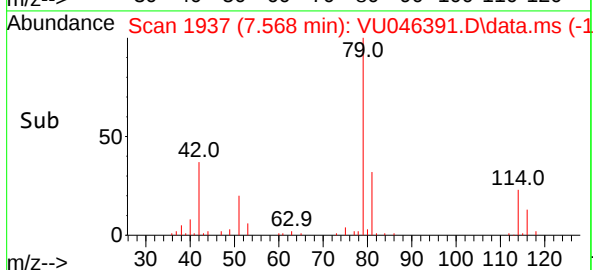
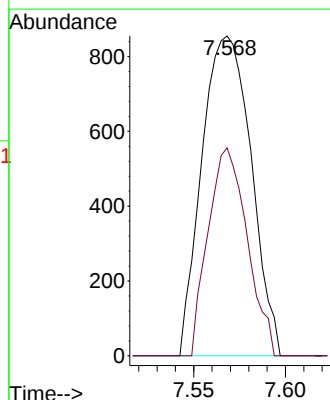
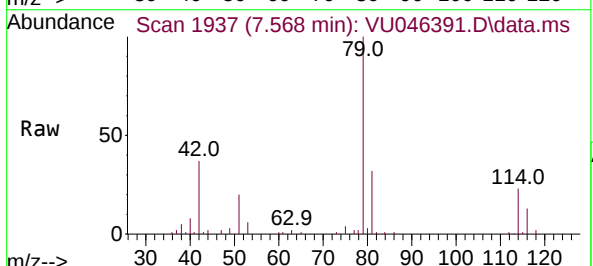
Acq: 15 Dec 2021 12:52

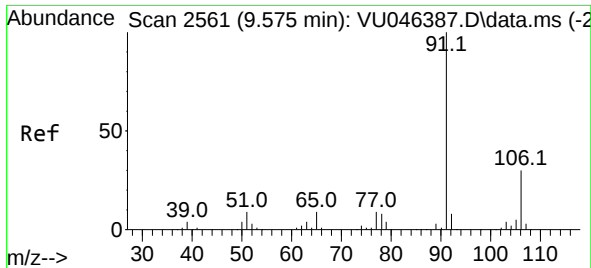
Tgt Ion: 75 Resp: 1598

Ion Ratio Lower Upper

75 100

77 65.0 21.8 40.6#

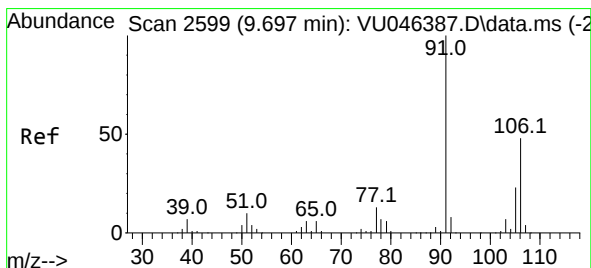
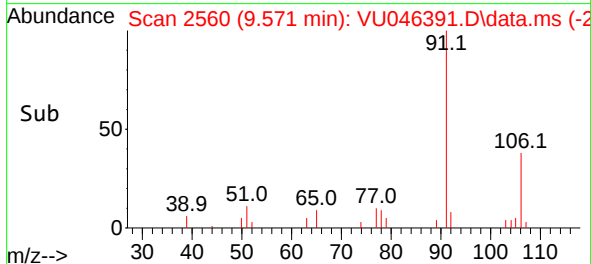
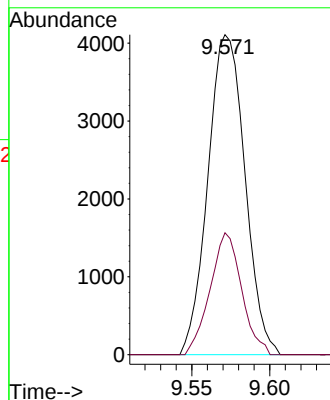
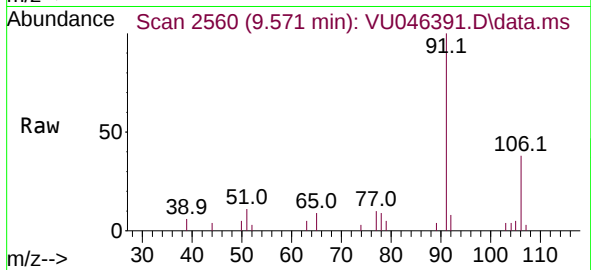




#52
Ethylbenzene
Concen: 1.291 ug/L
RT: 9.571 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU046391.D
Acq: 15 Dec 2021 12:52

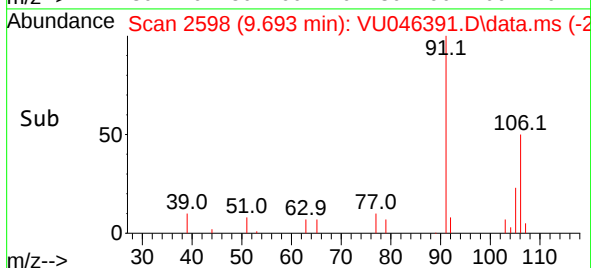
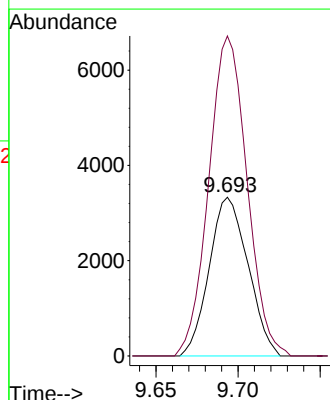
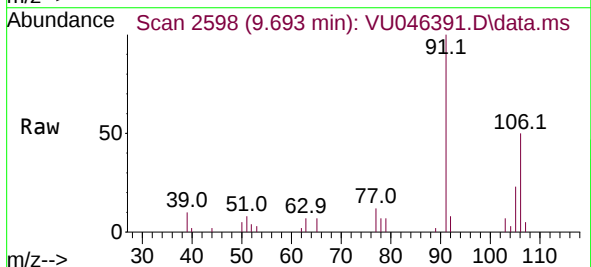
Instrument :
MSVOA_U
ClientSampleId :

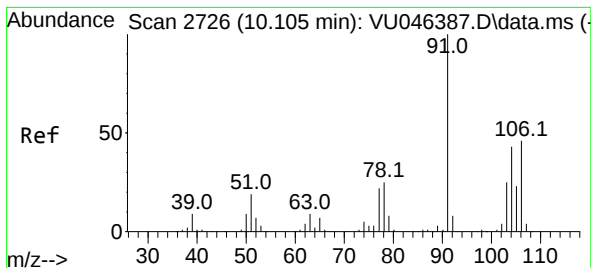
Tgt Ion: 91 Resp: 6783
Ion Ratio Lower Upper
91 100
106 38.1 21.1 39.3



#53
m,p-Xylene
Concen: 2.672 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046391.D
Acq: 15 Dec 2021 12:52

Tgt Ion:106 Resp: 5475
Ion Ratio Lower Upper
106 100
91 201.6 144.3 268.1





#54

o-xylene

Concen: 3.168 ug/L

RT: 10.102 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

Instrument :

MSVOA_U

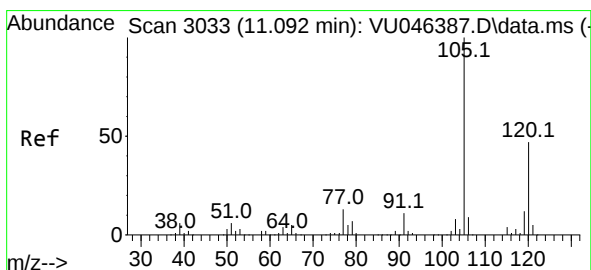
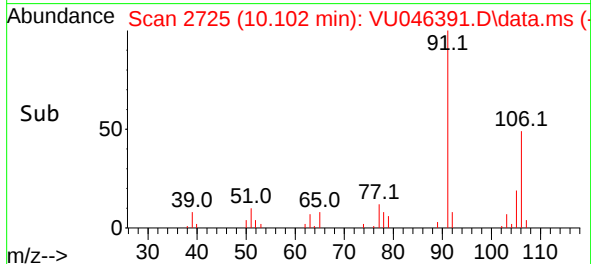
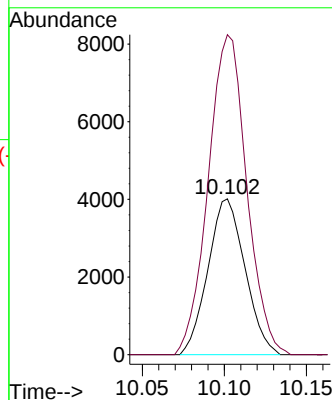
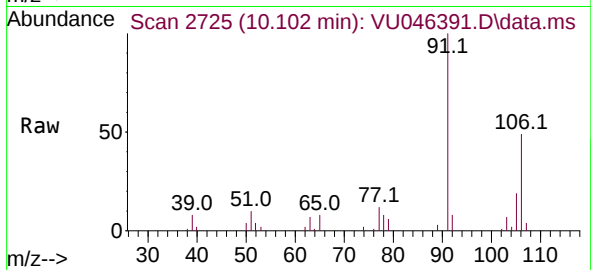
ClientSampleId :

Tgt Ion:106 Resp: 6300

Ion Ratio Lower Upper

106 100

91 205.3 154.2 286.4



#62

1,3,5-Trimethylbenzene

Concen: 1.520 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. -0.003 min

Lab File: VU046391.D

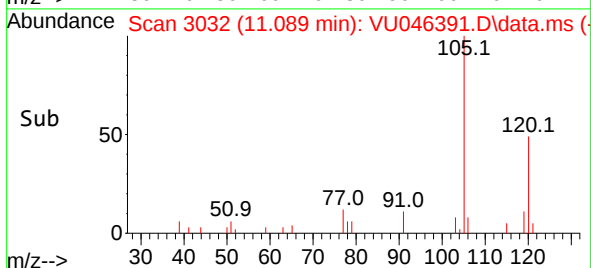
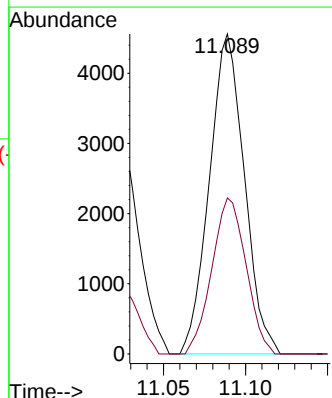
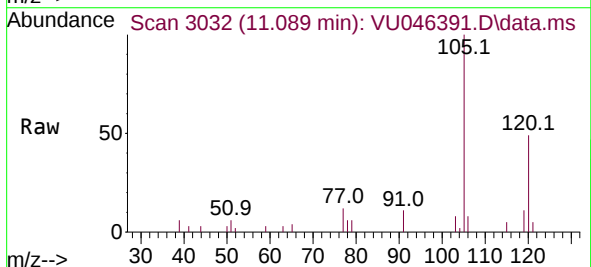
Acq: 15 Dec 2021 12:52

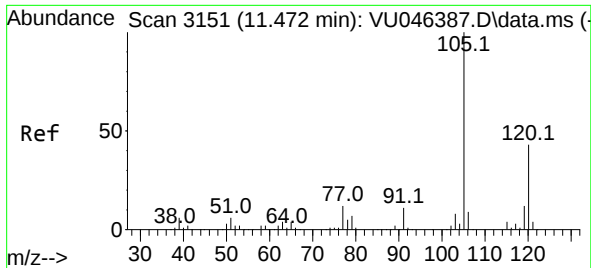
Tgt Ion:105 Resp: 6744

Ion Ratio Lower Upper

105 100

120 47.7 37.8 56.6





#63

1,2,4-Trimethylbenzene

Concen: 7.479 ug/L

RT: 11.468 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU046391.D

Acq: 15 Dec 2021 12:52

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:105 Resp: 33193

Ion Ratio Lower Upper

105 100

120 45.7 35.2 52.8

