

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046233.D
 Acq On : 09 Dec 2021 20:20
 Operator : SY/MD
 Sample : M4983-21
 Misc : 5.8mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:46:26 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	184214	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	193429	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	105752	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	70986	46.779	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.560%
7) Chloroethane-d5	1.919	69	53803	46.179	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.360%
11) 1,1-Dichloroethene-d2	2.575	63	94191	34.577	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.160%
21) 2-Butanone-d5	4.636	46	119026	98.670	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.670%
24) Chloroform-d	5.070	84	120606	47.594	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.180%
26) 1,2-Dichloroethane-d4	5.703	65	83033	48.824	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.640%
32) Benzene-d6	5.732	84	257856	46.511	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.020%
36) 1,2-Dichloropropane-d6	6.694	67	80061	46.596	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.200%
41) Toluene-d8	7.899	98	229988	45.562	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.120%
43) trans-1,3-Dichloroprop...	8.179	79	39049	47.080	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.160%
47) 2-Hexanone-d5	8.636	63	80565	98.895	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.890%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	126609	48.589	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.180%
66) 1,2-Dichlorobenzene-d4	12.195	152	96594	47.429	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.860%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	1043	0.577	ug/L #	1
8) Chloroethane	1.941	64	28119	26.868	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	854	0.637	ug/L #	21
12) 1,1-Dichloroethene	2.568	96	889	0.698	ug/L #	1
19) 1,1-Dichloroethane	3.877	63	52739	21.519	ug/L	98
20) cis-1,2-Dichloroethene	4.668	96	1476	1.009	ug/L	88
30) 1,1,1-Trichloroethane	5.321	97	20235	8.522	ug/L	98
31) Carbon tetrachloride	5.321	117	2647	1.313	ug/L	94
37) 1,2-Dichloropropane	6.694	63	8417	5.488	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2543	1.090	ug/L	88
44) trans-1,3-Dichloropropene	8.179	75	1531	0.668	ug/L #	78
46) Tetrachloroethene	8.555	164	1429	1.261	ug/L	83
49) Dibromochloromethane	8.555	129	1204	0.745	ug/L #	10
52) Ethylbenzene	9.571	91	4133	0.611	ug/L	97
62) 1,3,5-Trimethylbenzene	11.089	105	21597	3.766	ug/L	97
63) 1,2,4-Trimethylbenzene	11.468	105	63289	11.030	ug/L	100
71) Naphthalene	14.089	128	17387	2.364	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

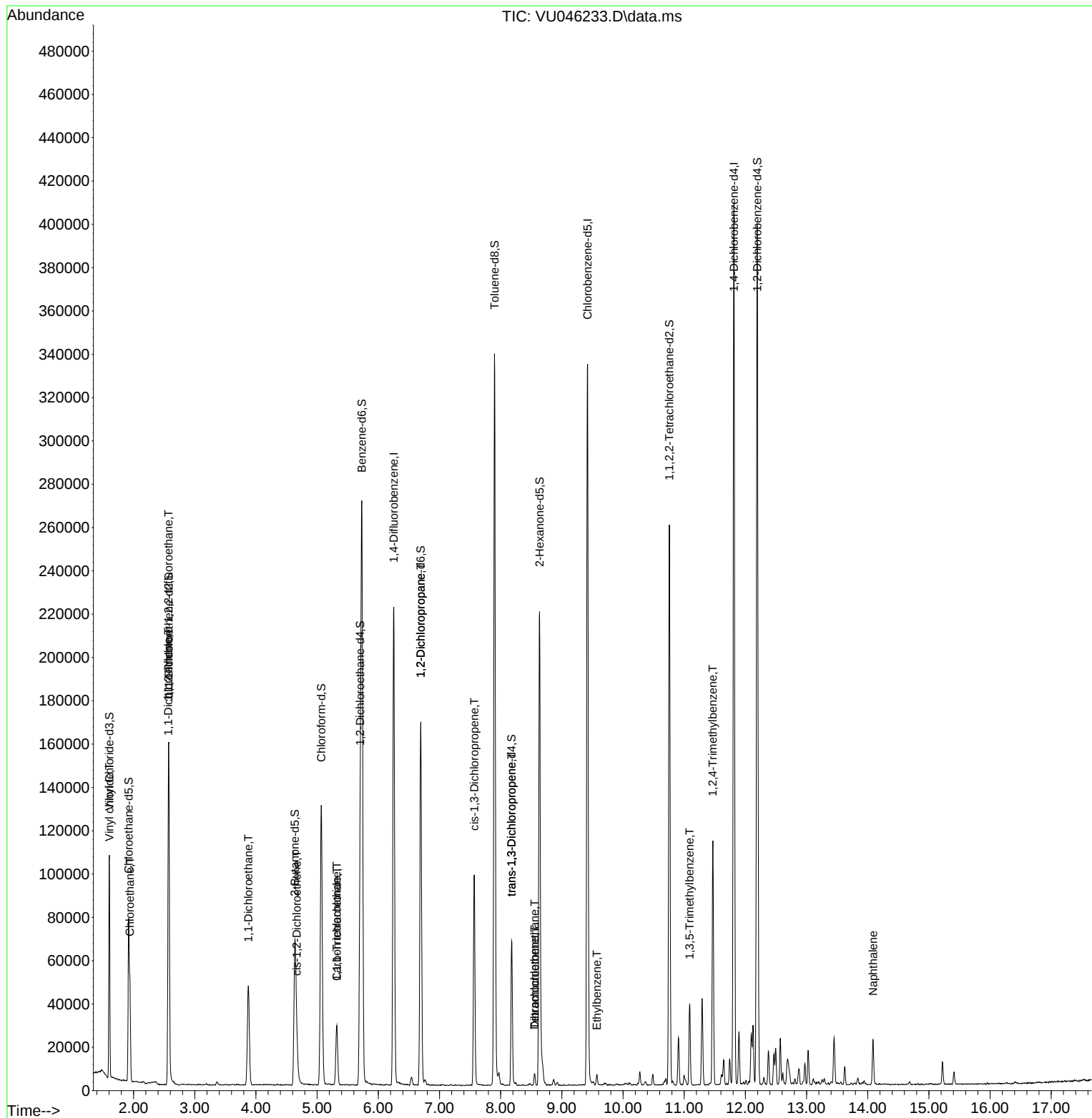
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

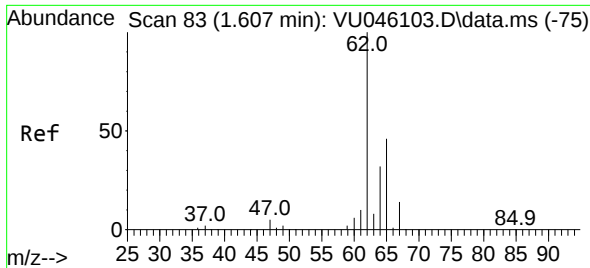
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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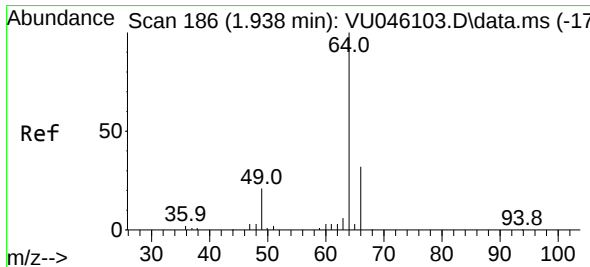
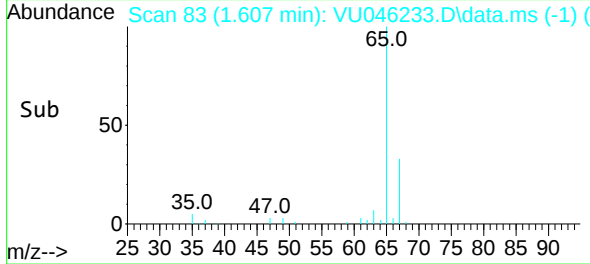
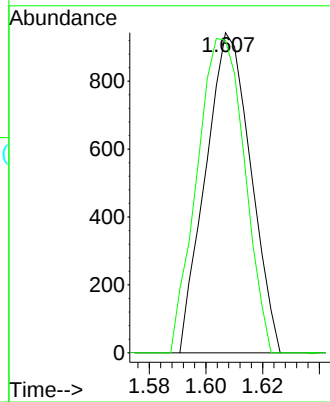
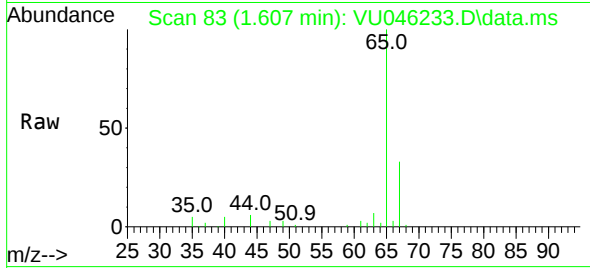




#5
 Vinyl chloride
 Concen: 0.577 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU046233.D
 Acq: 09 Dec 2021 20:20

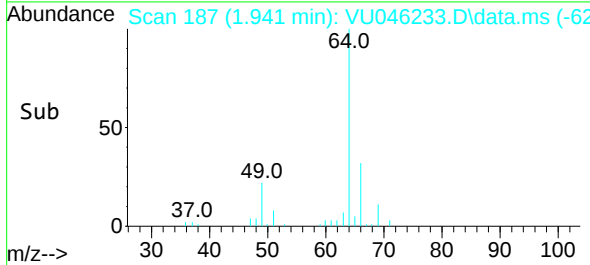
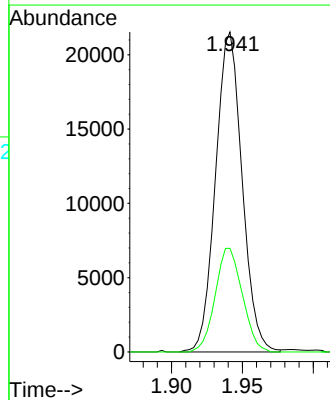
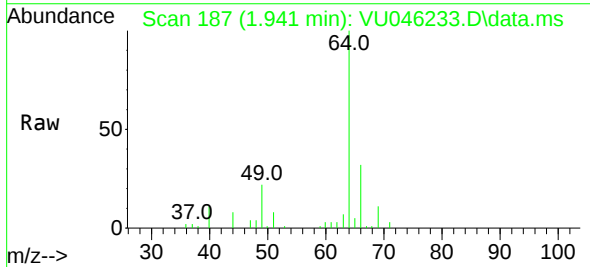
Instrument :
 MSVOA_U
 ClientSampleId :

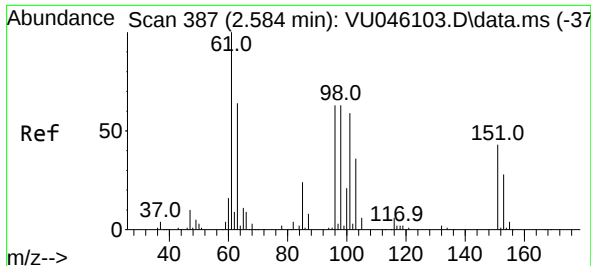
Tgt Ion: 62 Resp: 1043
 Ion Ratio Lower Upper
 62 100
 64 97.7 22.9 42.5#



#8
 Chloroethane
 Concen: 26.868 ug/L
 RT: 1.941 min Scan# 187
 Delta R.T. 0.003 min
 Lab File: VU046233.D
 Acq: 09 Dec 2021 20:20

Tgt Ion: 64 Resp: 28119
 Ion Ratio Lower Upper
 64 100
 66 32.4 22.5 41.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.637 ug/L

RT: 2.571 min Scan# 383

Delta R.T. -0.016 min

Lab File: VU046233.D

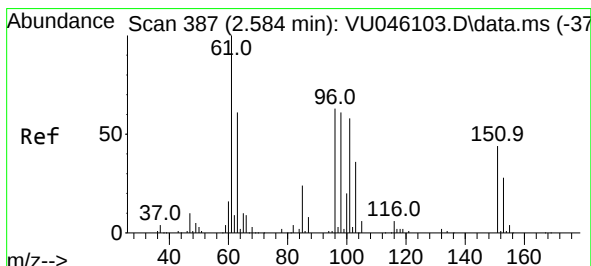
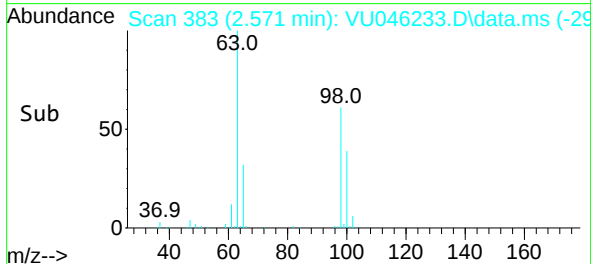
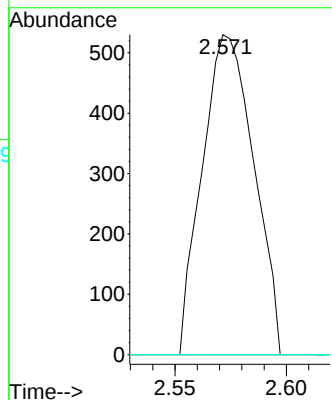
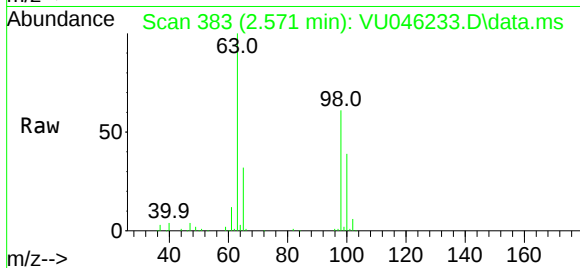
Acq: 09 Dec 2021 20:20

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	101	Resp:	854
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: 0.698 ug/L

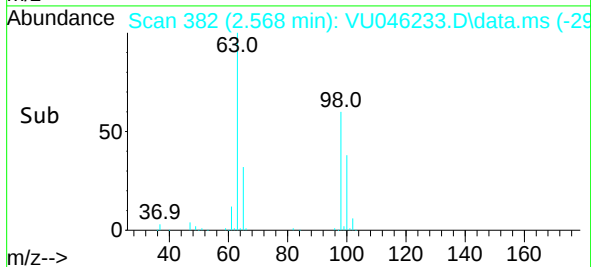
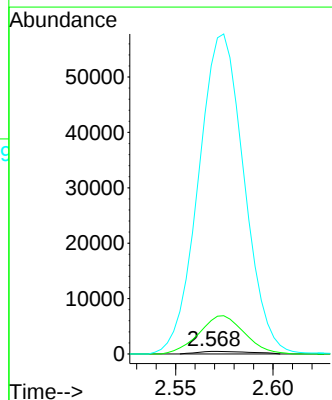
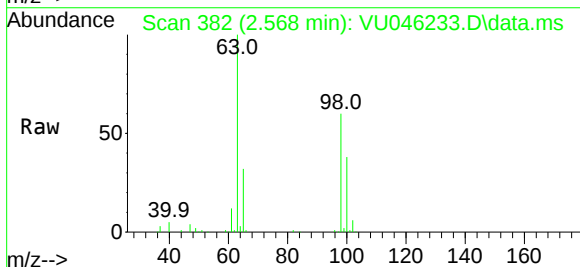
RT: 2.568 min Scan# 382

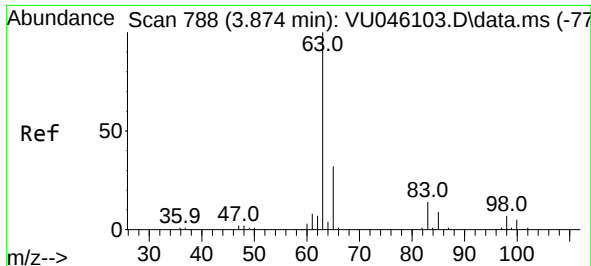
Delta R.T. -0.016 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

Tgt Ion:	96	Resp:	889
Ion	Ratio	Lower	Upper
96	100		
61	1275.1	118.6	220.2#
63	10982.3	93.0	172.8#





#19

1,1-Dichloroethane

Concen: 21.519 ug/L

RT: 3.877 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

Instrument :

MSVOA_U

ClientSampleId :

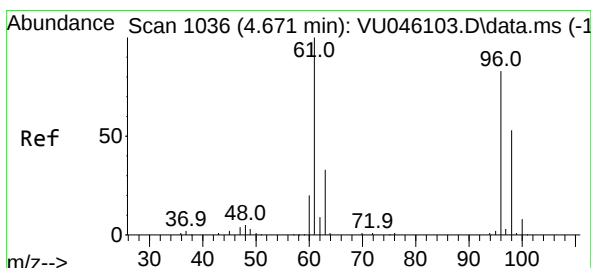
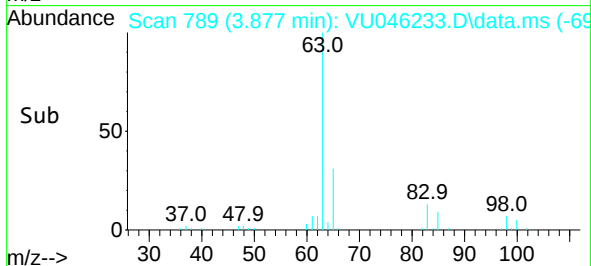
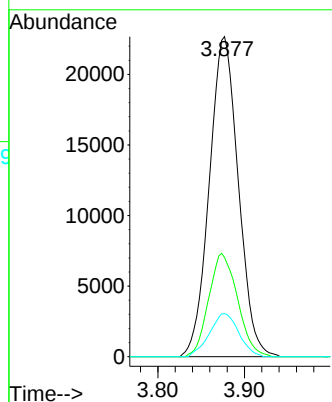
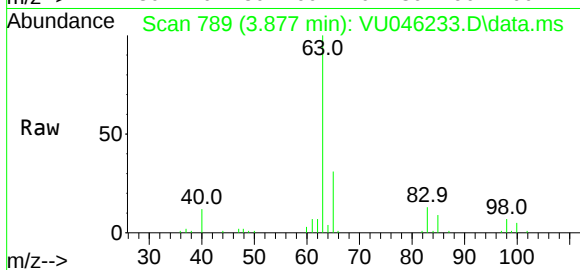
Tgt Ion: 63 Resp: 52739

Ion Ratio Lower Upper

63 100

65 31.0 22.8 42.4

83 13.4 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 1.009 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. -0.003 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

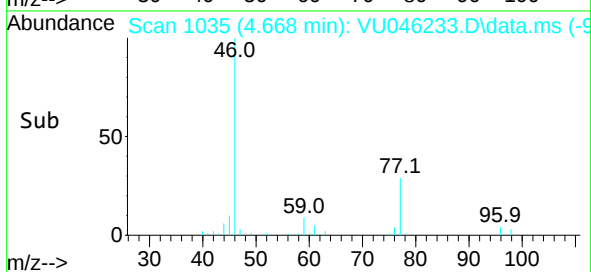
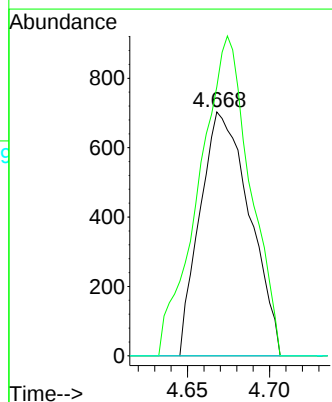
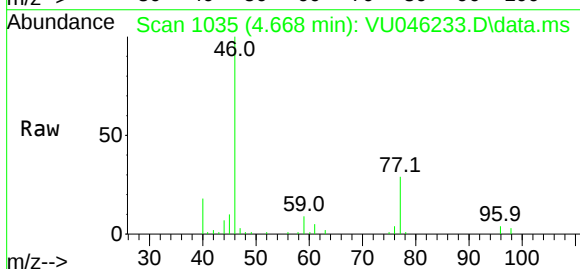
Tgt Ion: 96 Resp: 1476

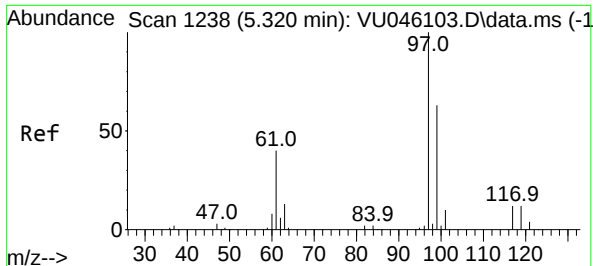
Ion Ratio Lower Upper

96 100

61 110.4 86.8 161.2

68 0.0 0.0 0.0





#30

1,1,1-Trichloroethane

Concen: 8.522 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

Instrument :

MSVOA_U

ClientSampleId :

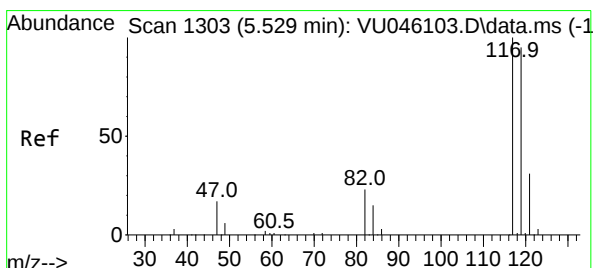
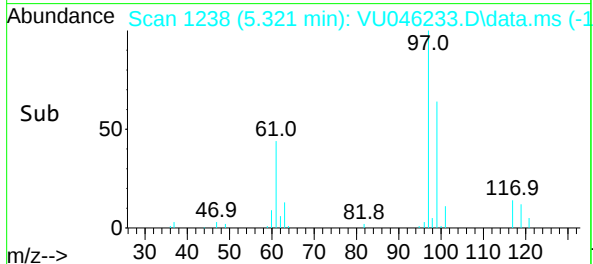
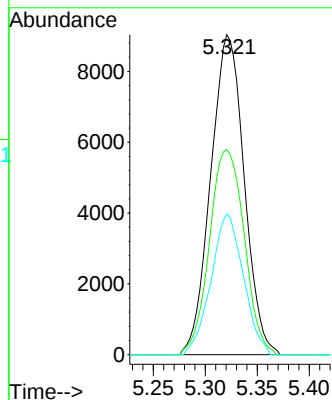
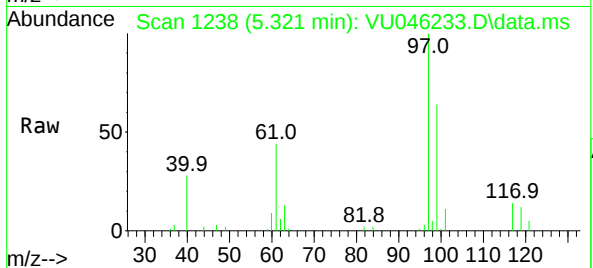
Tgt Ion: 97 Resp: 20235

Ion Ratio Lower Upper

97 100

99 66.5 51.8 77.6

61 42.5 34.4 51.6



#31

Carbon tetrachloride

Concen: 1.313 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU046233.D

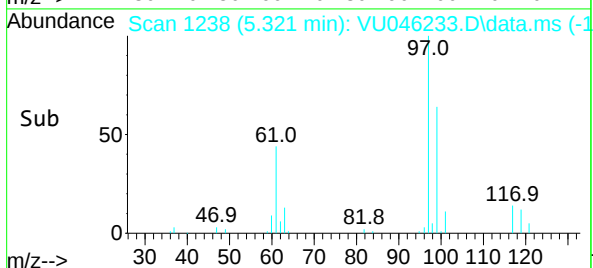
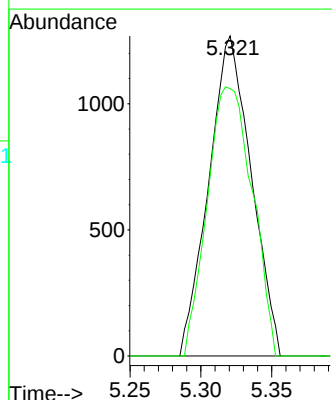
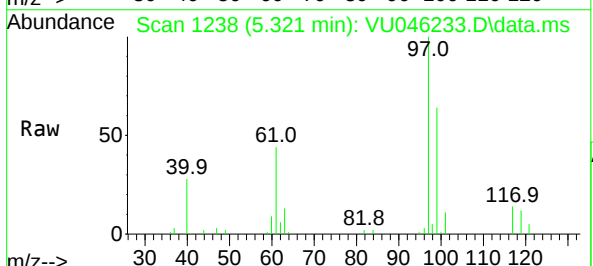
Acq: 09 Dec 2021 20:20

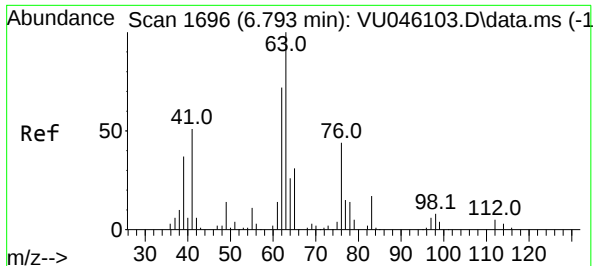
Tgt Ion: 117 Resp: 2647

Ion Ratio Lower Upper

117 100

119 89.2 75.7 113.5





#37

1,2-Dichloropropane

Concen: 5.488 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

Instrument :

MSVOA_U

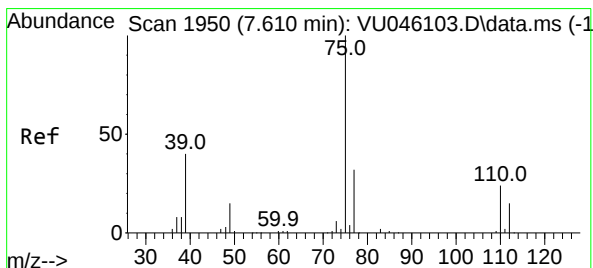
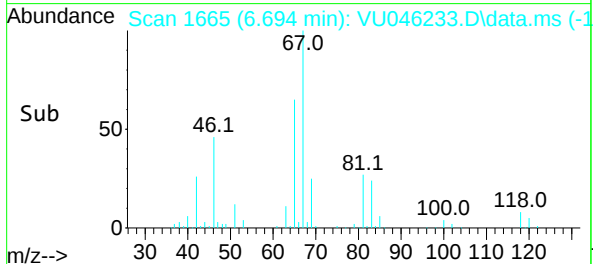
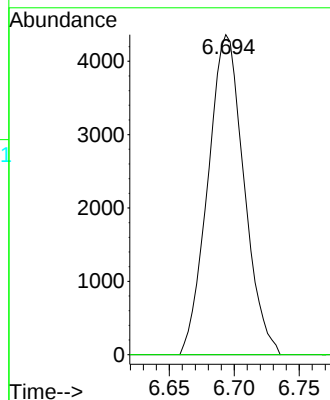
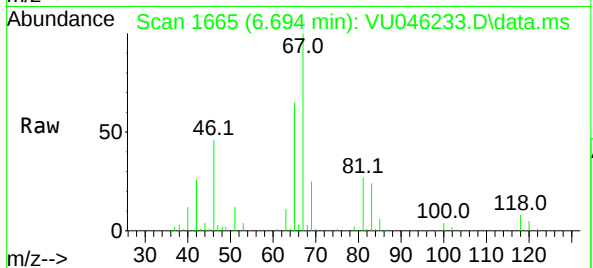
ClientSampleId :

Tgt Ion: 63 Resp: 8417

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 1.090 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046233.D

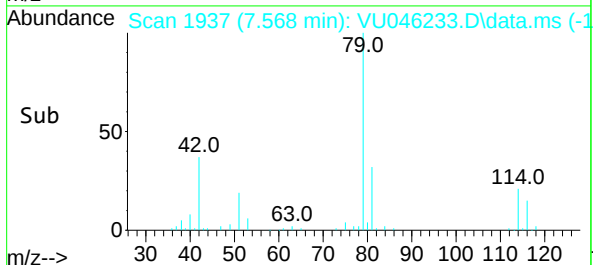
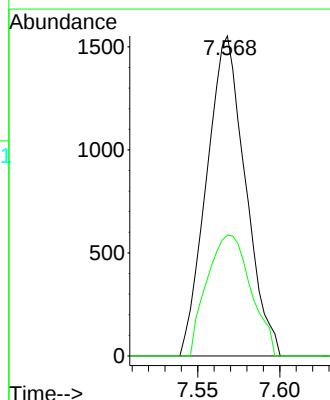
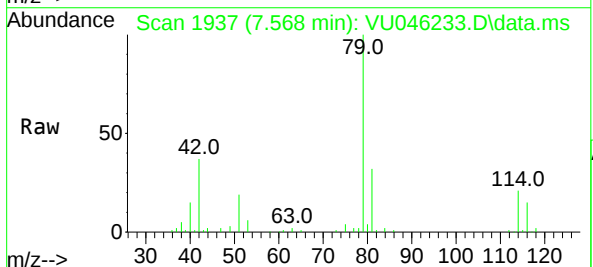
Acq: 09 Dec 2021 20:20

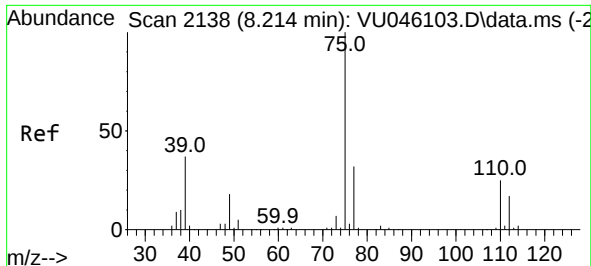
Tgt Ion: 75 Resp: 2543

Ion Ratio Lower Upper

75 100

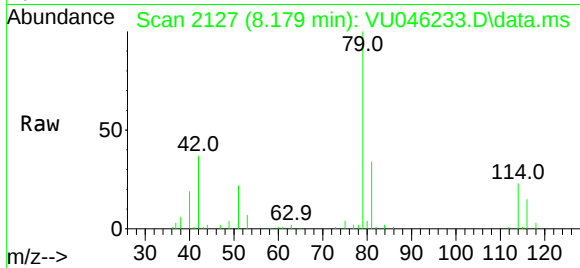
77 37.7 21.8 40.6



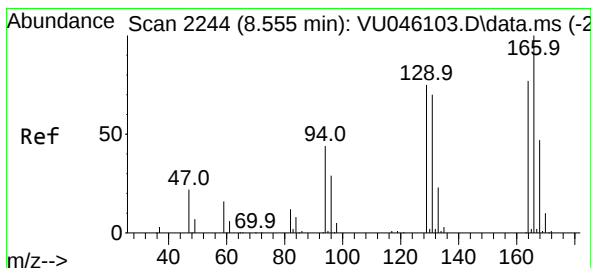
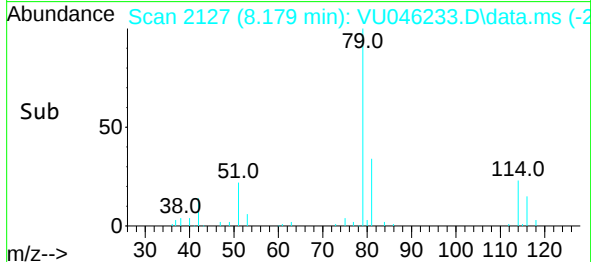
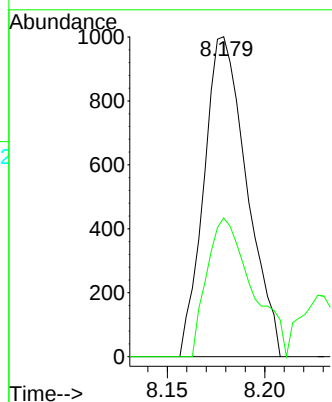


#44
trans-1,3-Dichloropropene
Concen: 0.668 ug/L
RT: 8.179 min Scan# 2138
Delta R.T. -0.035 min
Lab File: VU046233.D
Acq: 09 Dec 2021 20:20

Instrument :
MSVOA_U
ClientSampleId :

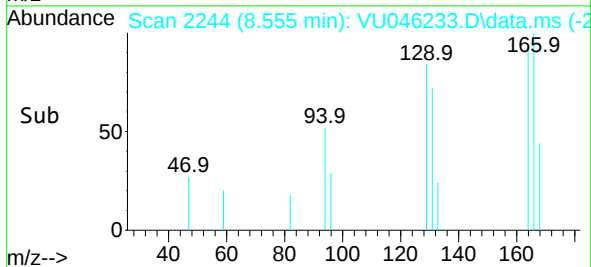
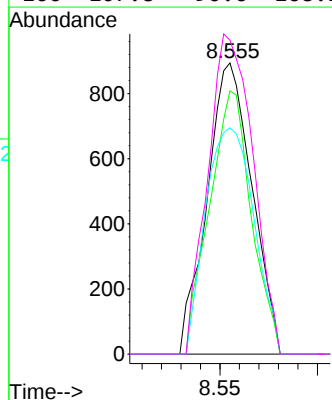
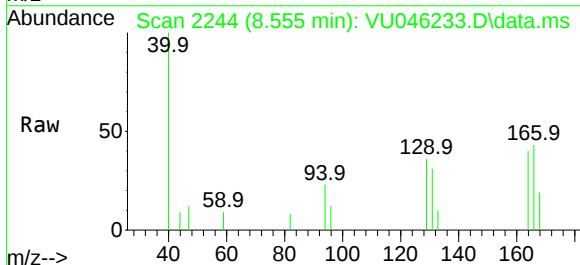


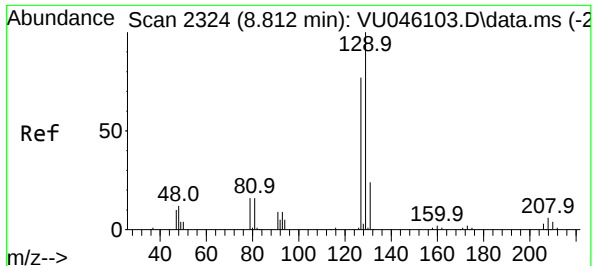
Tgt Ion: 75 Resp: 1531
Ion Ratio Lower Upper
75 100
77 43.4 21.7 40.3#



#46
Tetrachloroethene
Concen: 1.261 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU046233.D
Acq: 09 Dec 2021 20:20

Tgt Ion: 164 Resp: 1429
Ion Ratio Lower Upper
164 100
129 90.4 71.1 132.1
131 77.7 67.8 126.0
166 107.8 90.6 168.2





#49

Dibromochloromethane

Concen: 0.745 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

Instrument :

MSVOA_U

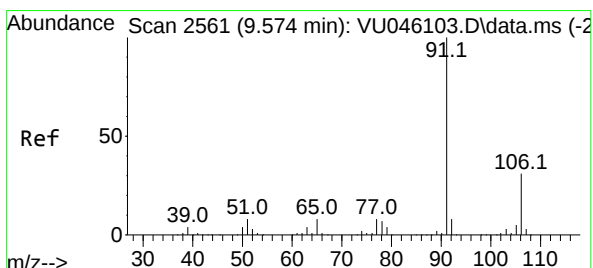
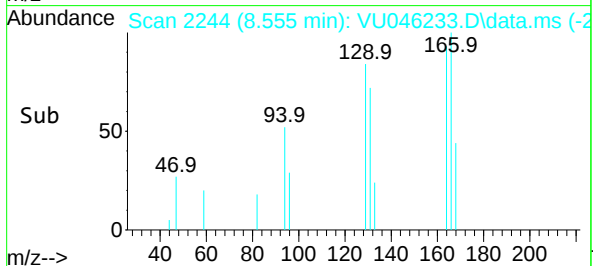
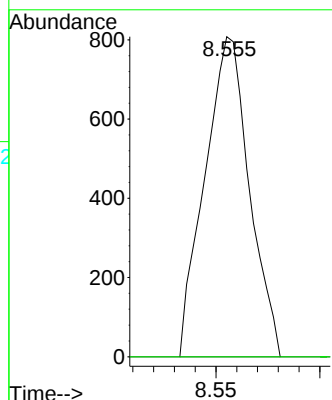
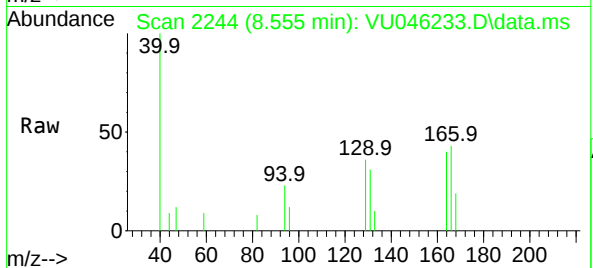
ClientSampleId :

Tgt Ion:129 Resp: 1204

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#



#52

Ethylbenzene

Concen: 0.611 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. -0.003 min

Lab File: VU046233.D

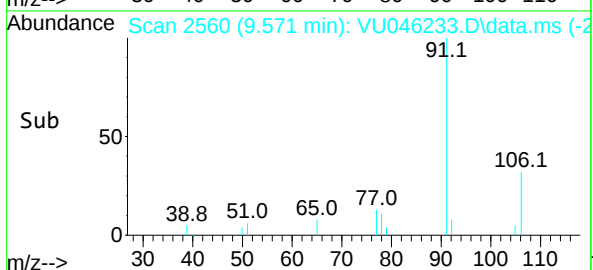
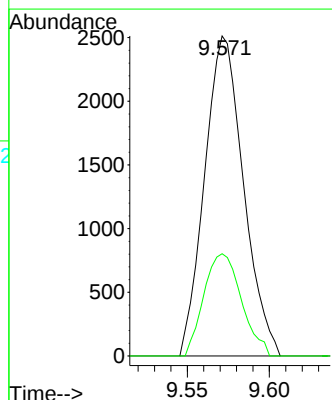
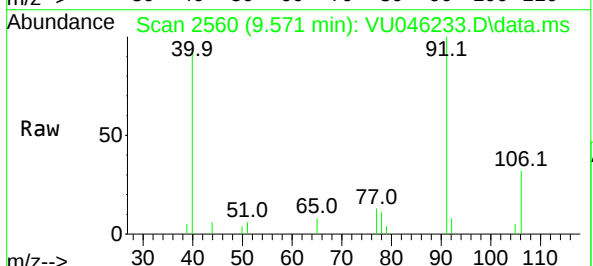
Acq: 09 Dec 2021 20:20

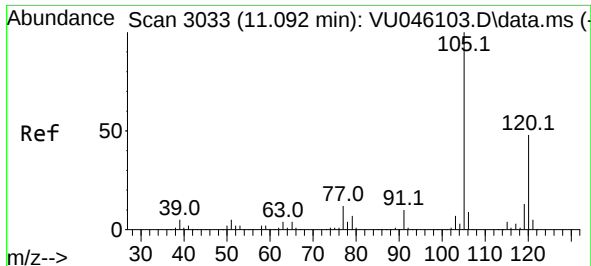
Tgt Ion: 91 Resp: 4133

Ion Ratio Lower Upper

91 100

106 32.0 21.1 39.3





#62

1,3,5-Trimethylbenzene

Concen: 3.766 ug/L

RT: 11.089 min Scan# 3033

Delta R.T. -0.003 min

Lab File: VU046233.D

Acq: 09 Dec 2021 20:20

Instrument :

MSVOA_U

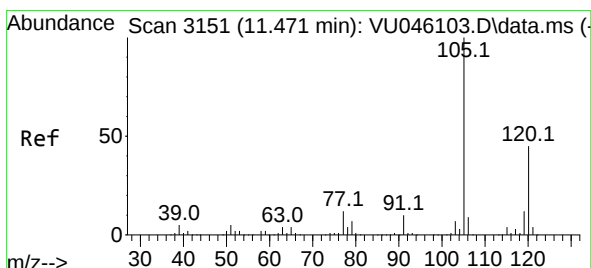
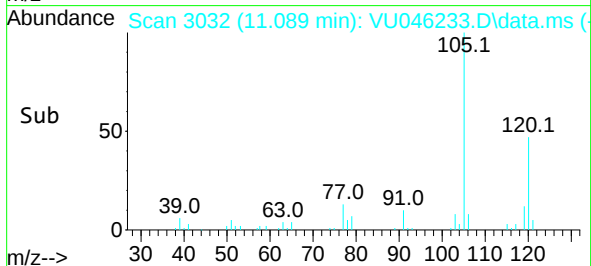
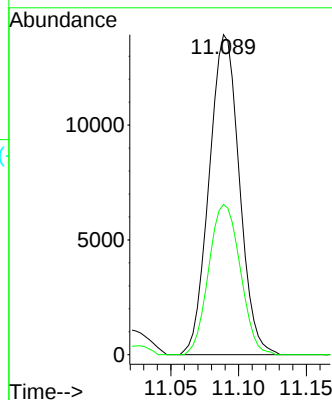
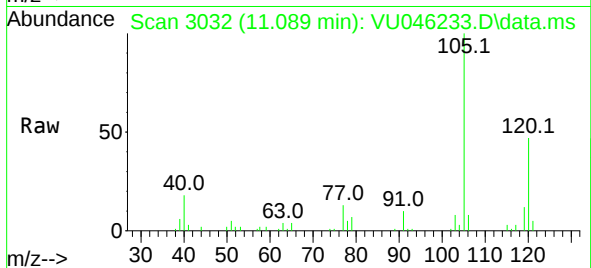
ClientSampleId :

Tgt Ion:105 Resp: 21597

Ion Ratio Lower Upper

105 100

120 49.0 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 11.030 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046233.D

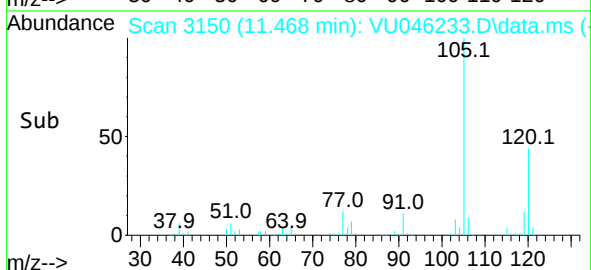
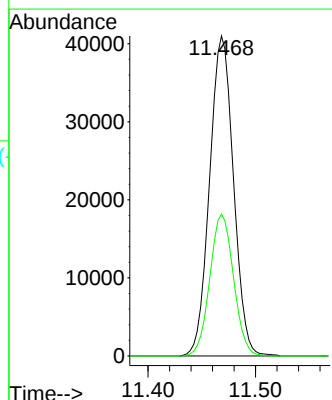
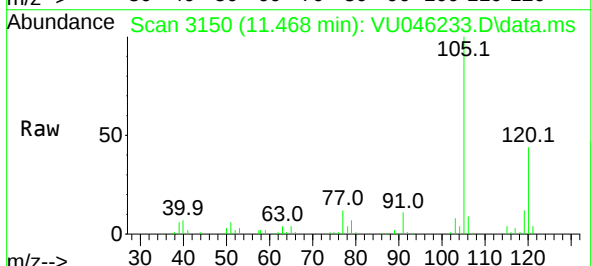
Acq: 09 Dec 2021 20:20

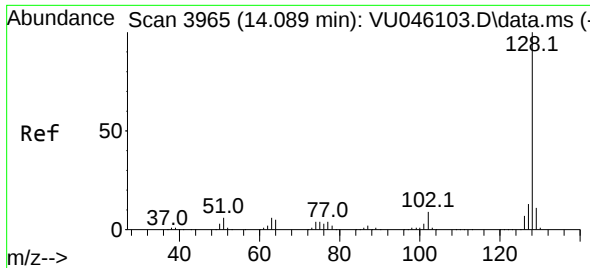
Tgt Ion:105 Resp: 63289

Ion Ratio Lower Upper

105 100

120 43.9 35.2 52.8





#71
Naphthalene
Concen: 2.364 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU046233.D
Acq: 09 Dec 2021 20:20

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	10.1	8.6	13.0

