

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120221\
 Data File : VU046062.D
 Acq On : 02 Dec 2021 18:57
 Operator : SY/MD
 Sample : M4870-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 03 05:13:46 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	245123	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	238062	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	127380	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	69604	34.471	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.940%
7) Chloroethane-d5	1.916	69	54960	35.451	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	70.900%
11) 1,1-Dichloroethene-d2	2.572	63	102365	28.240	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.480%#
21) 2-Butanone-d5	4.636	46	142324	88.666	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.670%
24) Chloroform-d	5.067	84	135116	40.071	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.140%
26) 1,2-Dichloroethane-d4	5.703	65	93874	41.483	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.960%
32) Benzene-d6	5.729	84	296711	43.485	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.980%
36) 1,2-Dichloropropane-d6	6.694	67	93955	44.430	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.860%
41) Toluene-d8	7.899	98	265520	42.739	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.480%
43) trans-1,3-Dichloroprop...	8.179	79	43073	42.195	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.380%
47) 2-Hexanone-d5	8.632	63	101823	101.555	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.560%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	134855	42.051	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.100%
66) 1,2-Dichlorobenzene-d4	12.195	152	109638	44.693	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.380%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	19724	8.201	ug/L	94
8) Chloroethane	1.607	64	7205	5.174	ug/L #	73
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	868	0.487	ug/L #	21
12) 1,1-Dichloroethene	2.568	96	876	0.517	ug/L #	1
13) Acetone	2.649	43	172026	85.751	ug/L	97
16) Methylene chloride	3.051	84	9364	4.644	ug/L	95
17) trans-1,2-Dichloroethene	3.353	96	1648	0.919	ug/L	87
20) cis-1,2-Dichloroethene	4.671	96	284414	146.138	ug/L	100
22) 2-Butanone	4.716	43	37971	17.387	ug/L	98
27) 1,2-Dichloroethane	5.797	62	8092	3.010	ug/L	95
33) Benzene	5.777	78	91539	12.705	ug/L	100
37) 1,2-Dichloropropane	6.694	63	10494	5.560	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2523	0.879	ug/L #	62
40) 4-Methyl-2-pentanone	7.793	43	33276	11.999	ug/L	99
42) Toluene	7.970	91	150192	19.426	ug/L	99
51) Chlorobenzene	9.449	112	3943	0.788	ug/L	91
52) Ethylbenzene	9.571	91	313455	37.672	ug/L	98
53) m,p-Xylene	9.693	106	347201	106.998	ug/L	98
54) o-xylene	10.102	106	132279	42.011	ug/L	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120221\
 Data File : VU046062.D
 Acq On : 02 Dec 2021 18:57
 Operator : SY/MD
 Sample : M4870-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 03 05:13:46 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

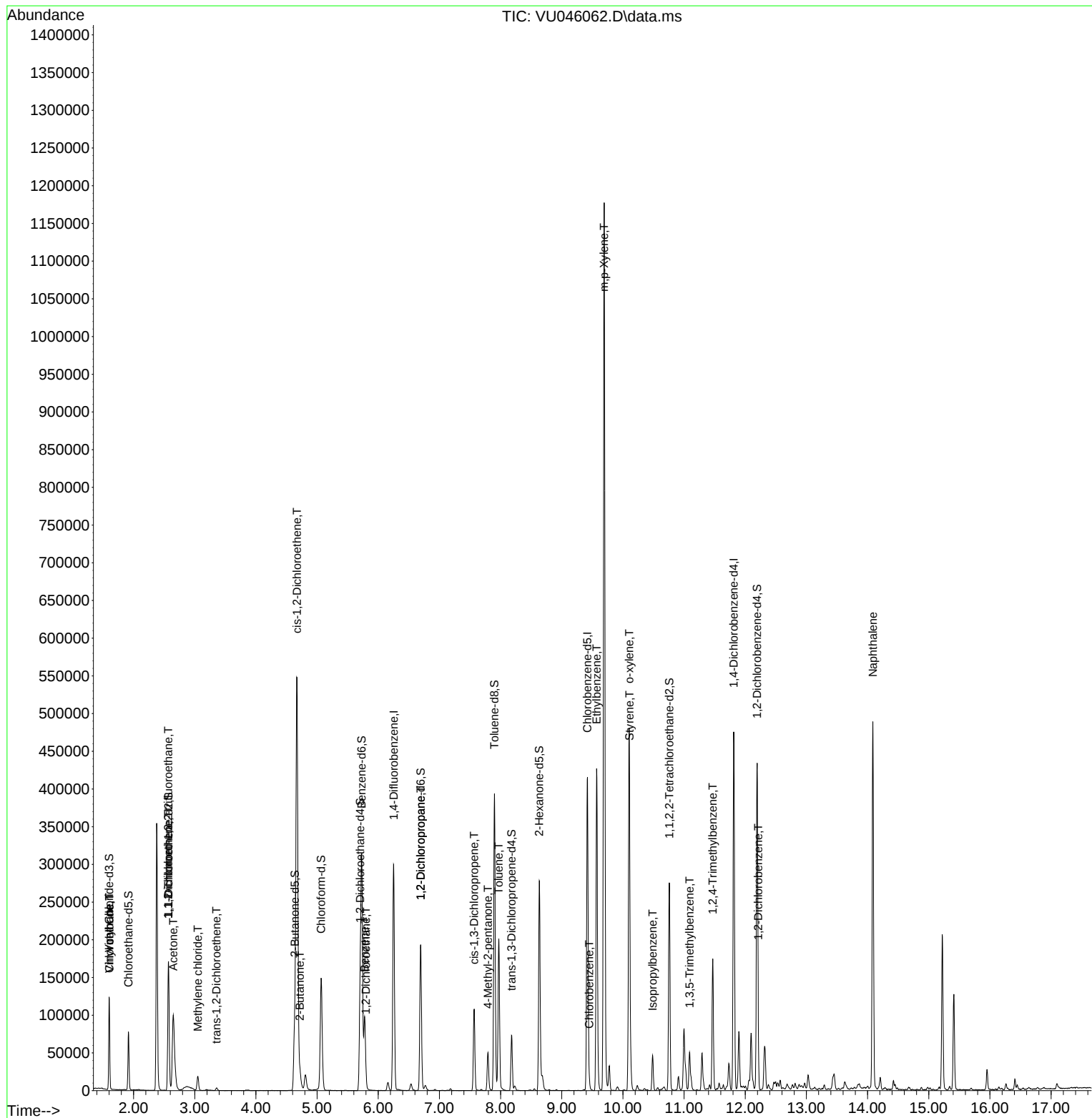
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.108	104	11912	2.216	ug/L #	1
61) Isopropylbenzene	10.484	105	31750	3.831	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	27365	3.961	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	96203	13.919	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	4935	1.245	ug/L	97
71) Naphthalene	14.086	128	379434	42.835	ug/L	100

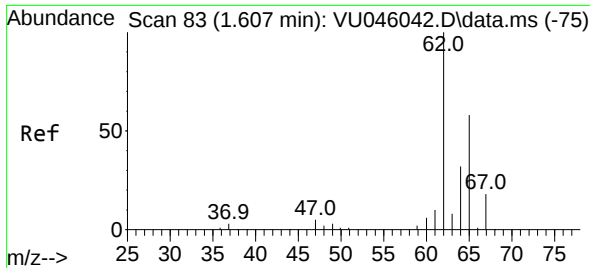
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120221\
Data File : VU046062.D
Acq On : 02 Dec 2021 18:57
Operator : SY/MD
Sample : M4870-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 03 05:13:46 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

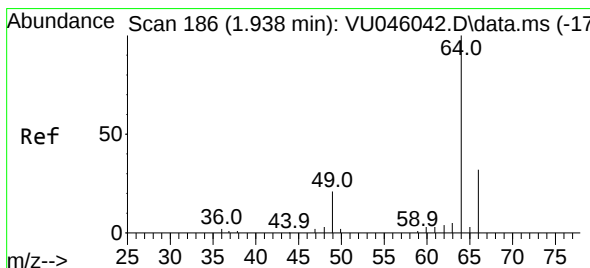
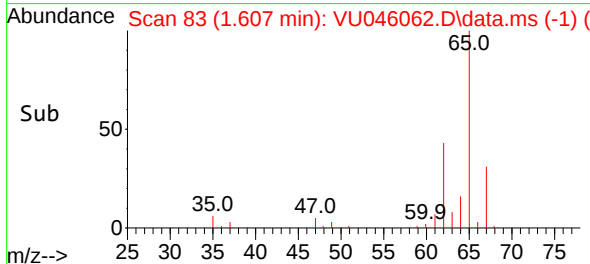
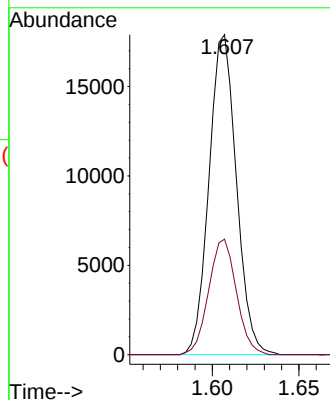
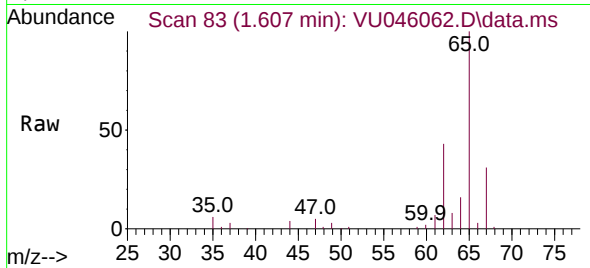




#5
 Vinyl chloride
 Concen: 8.201 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU046062.D
 Acq: 02 Dec 2021 18:57

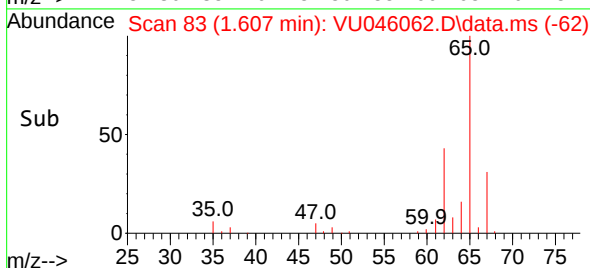
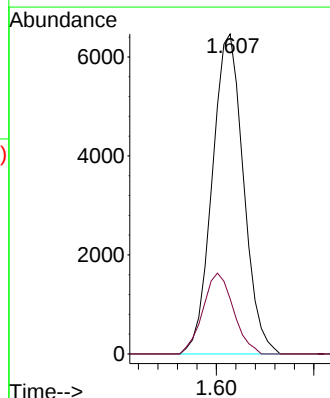
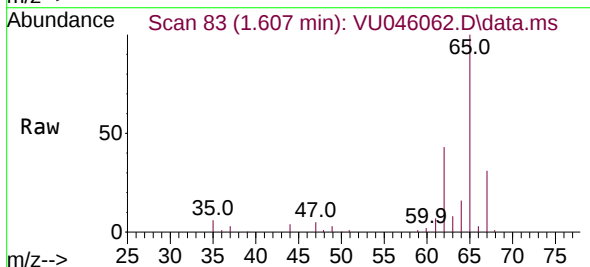
Instrument :
 MSVOA_U
 ClientSampleId :

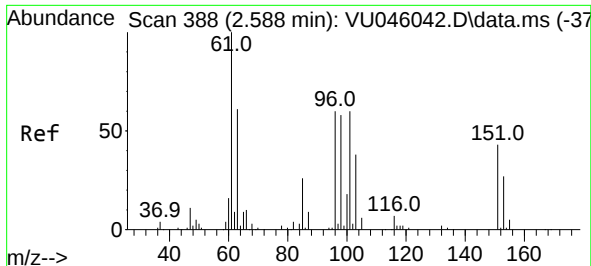
Tgt Ion: 62 Resp: 19724
 Ion Ratio Lower Upper
 62 100
 64 36.1 22.9 42.5



#8
 Chloroethane
 Concen: 5.174 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.331 min
 Lab File: VU046062.D
 Acq: 02 Dec 2021 18:57

Tgt Ion: 64 Resp: 7205
 Ion Ratio Lower Upper
 64 100
 66 17.2 22.5 41.9#





#10

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

Concen: 0.487 ug/L

RT: 2.568 min Scan# 382

Delta R.T. -0.019 min

Lab File: VU046062.D

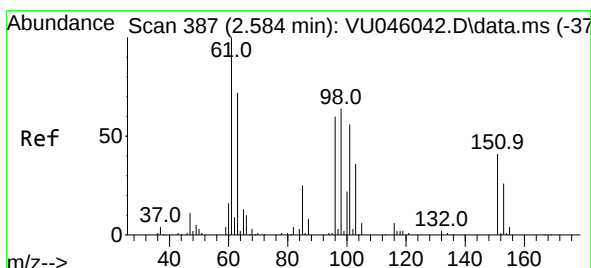
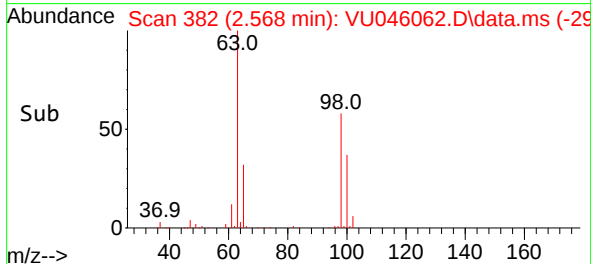
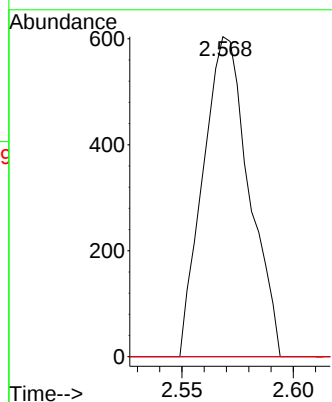
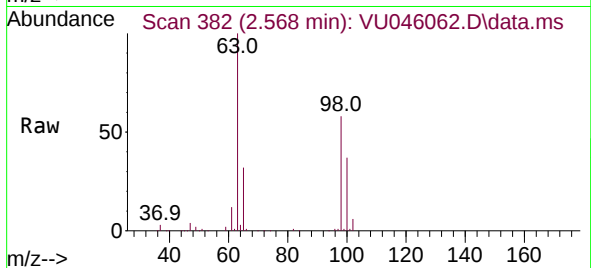
Acq: 02 Dec 2021 18:57

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	101	Resp:	868
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: 0.517 ug/L

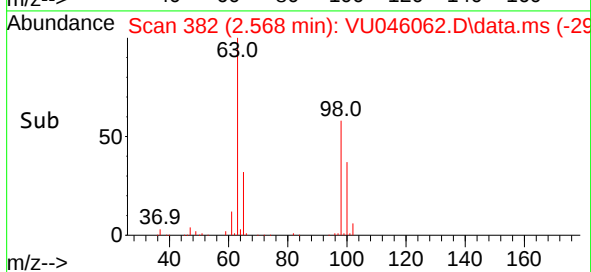
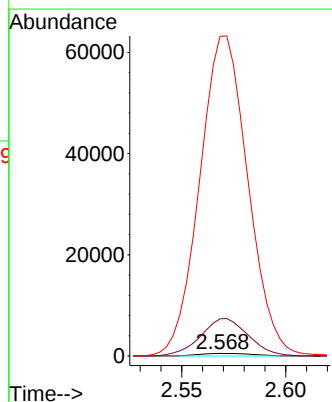
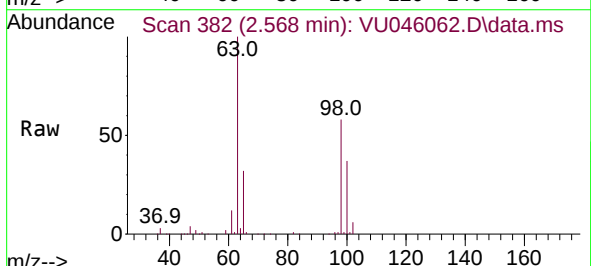
RT: 2.568 min Scan# 382

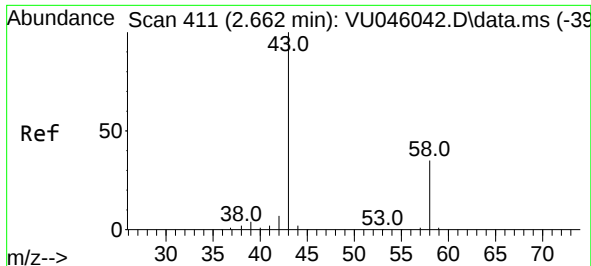
Delta R.T. -0.016 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

Tgt Ion:	96	Resp:	876
Ion	Ratio	Lower	Upper
96	100		
61	1490.7	118.6	220.2#
63	12842.3	93.0	172.8#





#13

Acetone

Concen: 85.751 ug/L

RT: 2.649 min Scan# 407

Delta R.T. -0.013 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

Instrument :

MSVOA_U

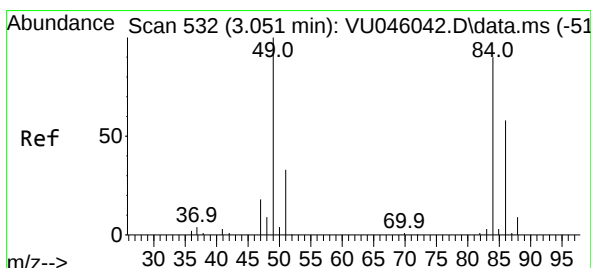
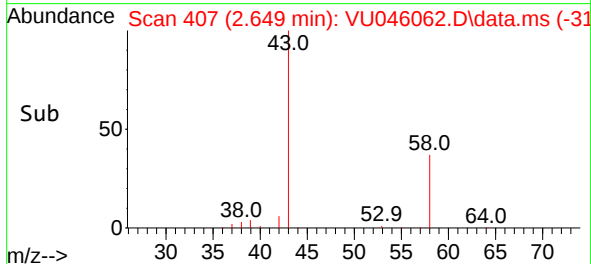
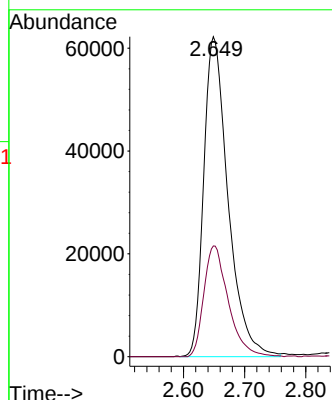
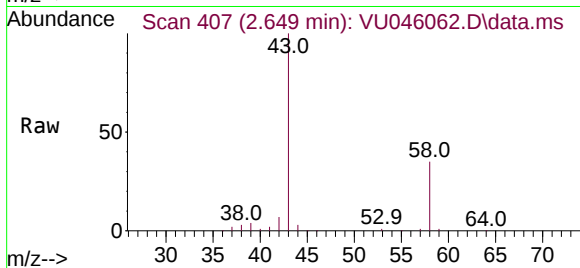
ClientSampleId :

Tgt Ion: 43 Resp: 172026

Ion Ratio Lower Upper

43 100

58 34.8 0.0 66.8



#16

Methylene chloride

Concen: 4.644 ug/L

RT: 3.051 min Scan# 532

Delta R.T. 0.000 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

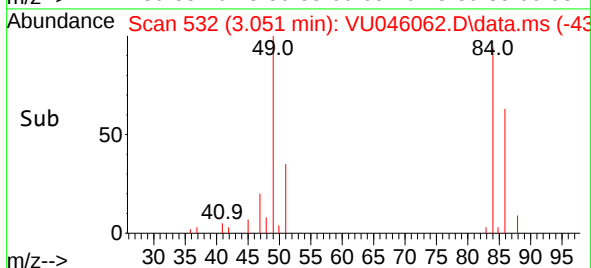
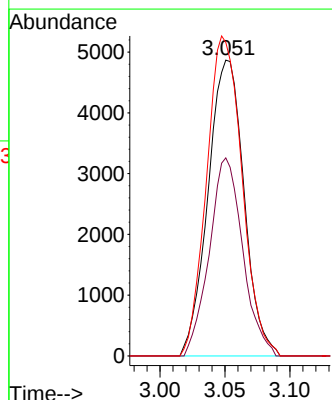
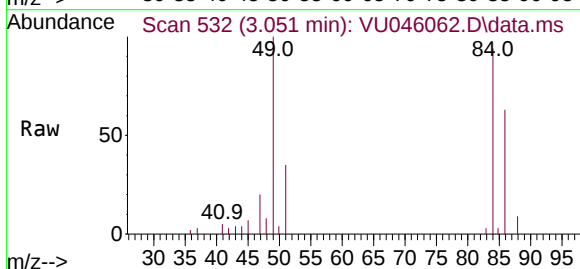
Tgt Ion: 84 Resp: 9364

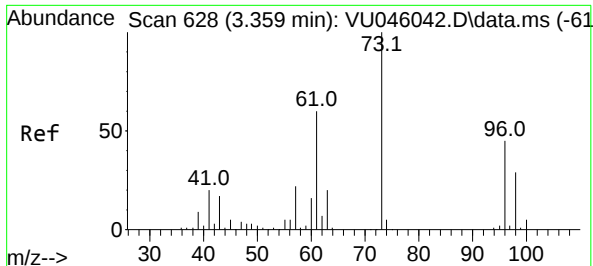
Ion Ratio Lower Upper

84 100

86 67.0 44.7 83.1

49 106.0 78.4 145.6





#17

trans-1,2-Dichloroethene

Concen: 0.919 ug/L

RT: 3.353 min Scan# 61

Delta R.T. -0.006 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

Instrument :

MSVOA_U

ClientSampleId :

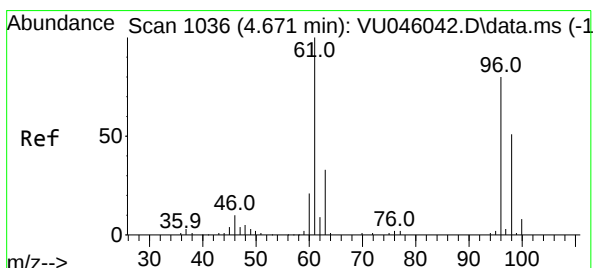
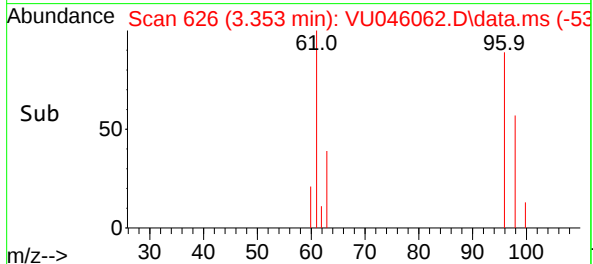
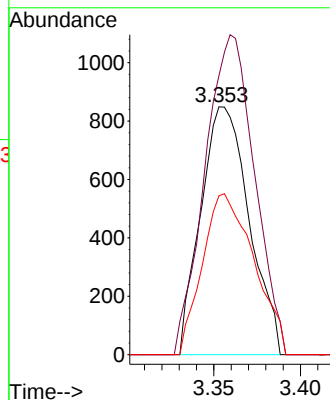
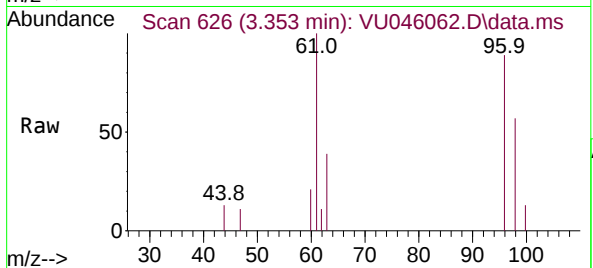
Tgt Ion: 96 Resp: 1648

Ion Ratio Lower Upper

96 100

61 112.5 94.6 175.6

98 64.1 44.0 81.8



#20

cis-1,2-Dichloroethene

Concen: 146.138 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

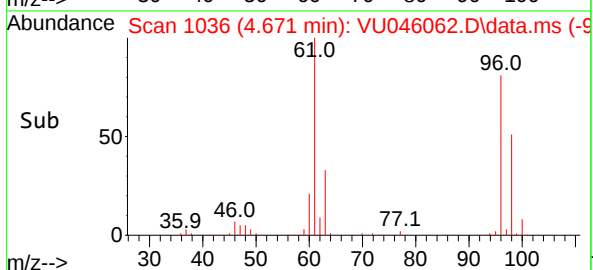
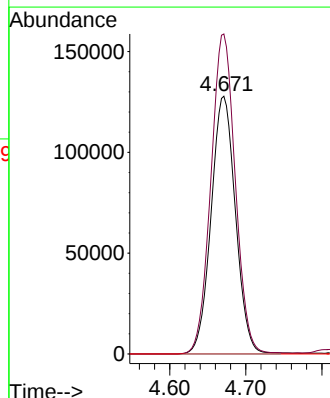
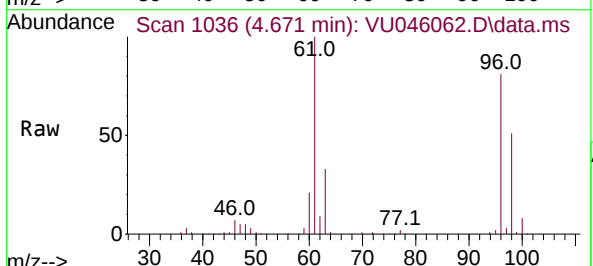
Tgt Ion: 96 Resp: 284414

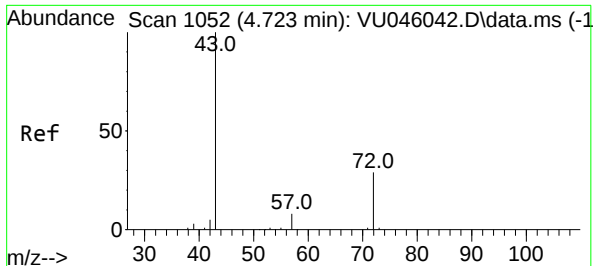
Ion Ratio Lower Upper

96 100

61 124.1 86.8 161.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 17.387 ug/L

RT: 4.716 min Scan# 1050

Delta R.T. -0.006 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

Instrument :

MSVOA_U

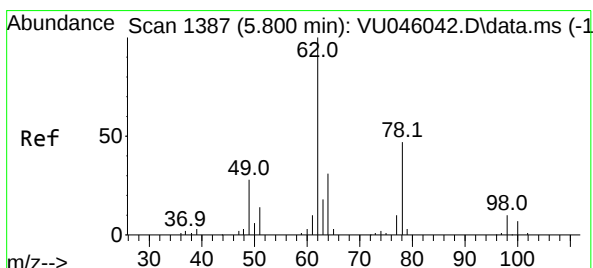
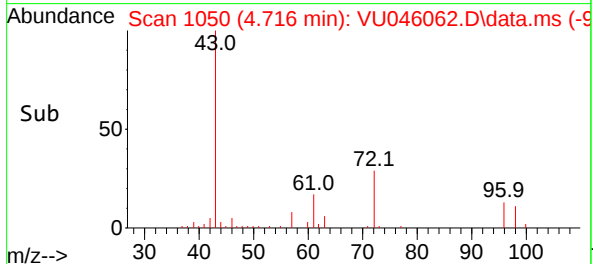
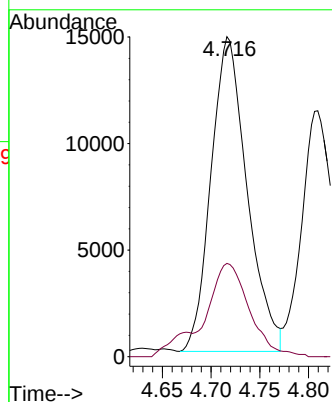
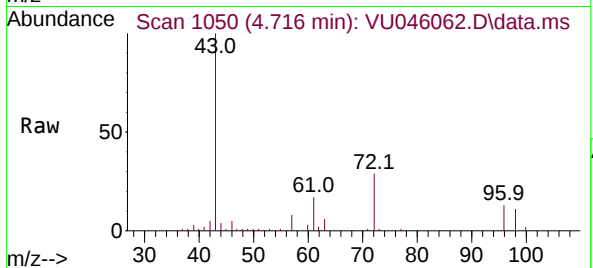
ClientSampleId :

Tgt Ion: 43 Resp: 37971

Ion Ratio Lower Upper

43 100

72 30.1 14.5 43.6



#27

1,2-Dichloroethane

Concen: 3.010 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU046062.D

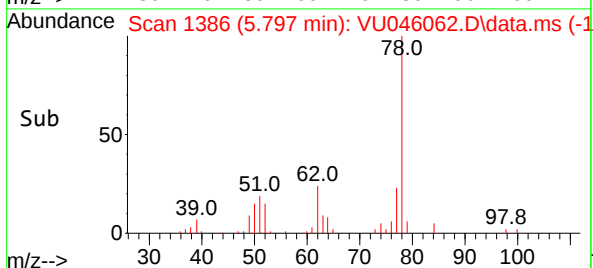
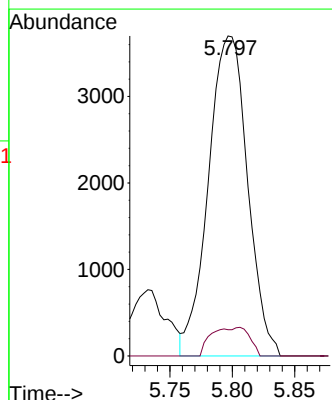
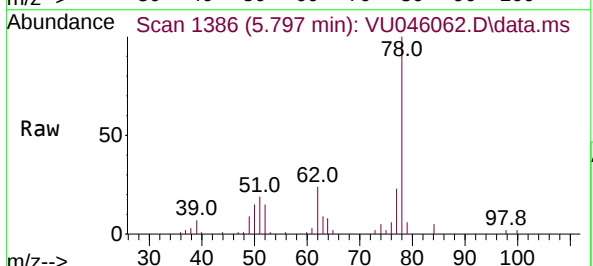
Acq: 02 Dec 2021 18:57

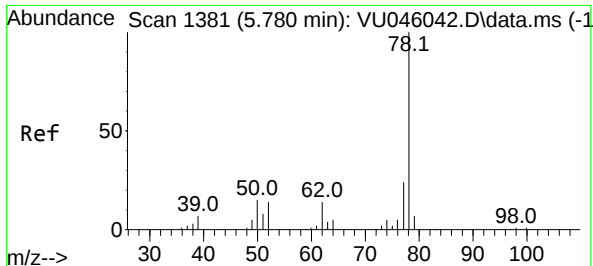
Tgt Ion: 62 Resp: 8092

Ion Ratio Lower Upper

62 100

98 8.2 7.9 11.9

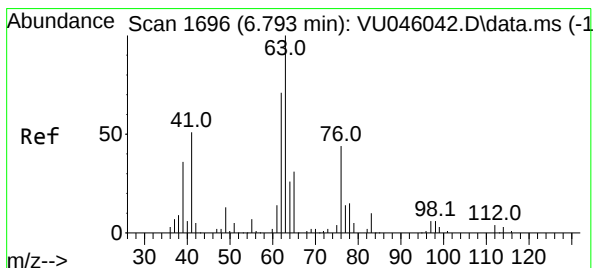
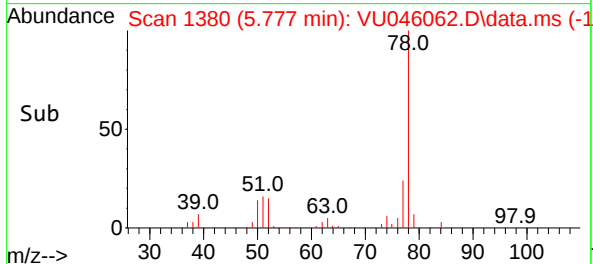
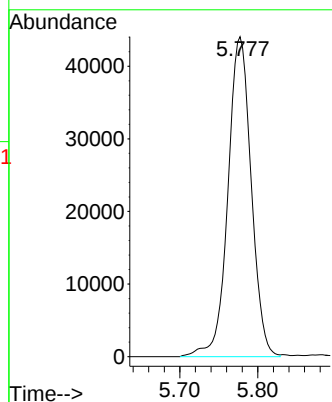
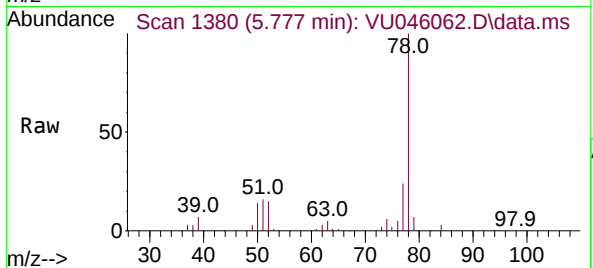




#33
Benzene
Concen: 12.705 ug/L
RT: 5.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

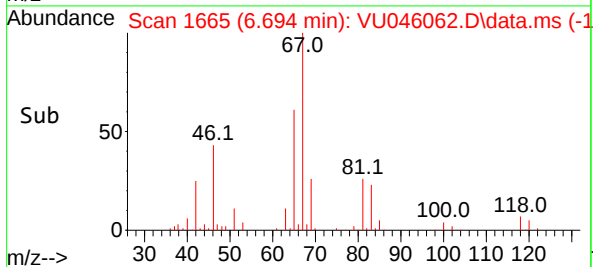
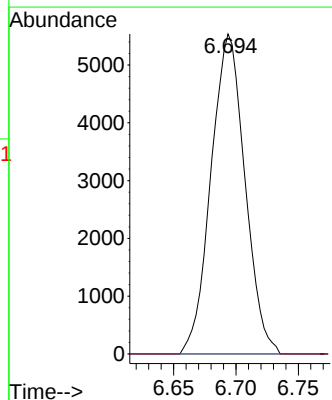
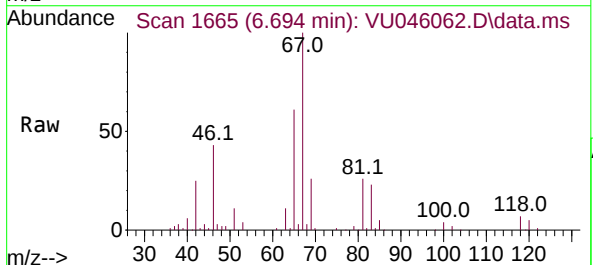
Instrument :
MSVOA_U
ClientSampleId :

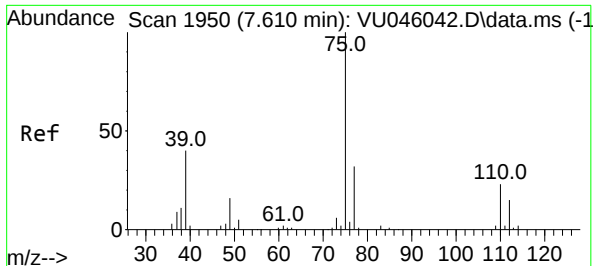
Tgt Ion: 78 Resp: 91539



#37
1,2-Dichloropropane
Concen: 5.560 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.100 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

Tgt Ion: 63 Resp: 10494
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.879 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

Instrument :

MSVOA_U

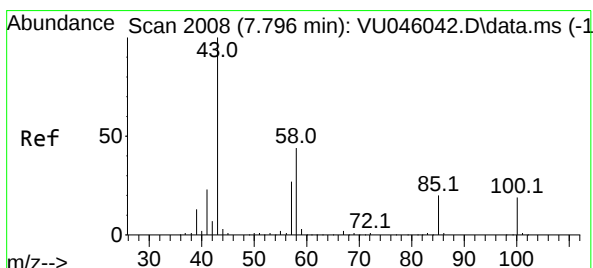
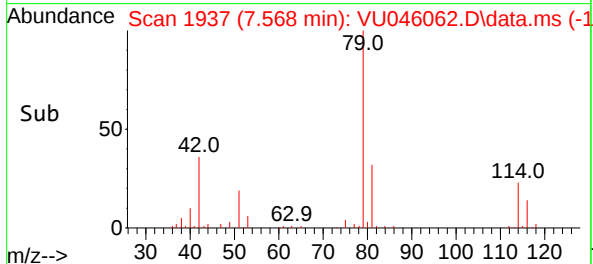
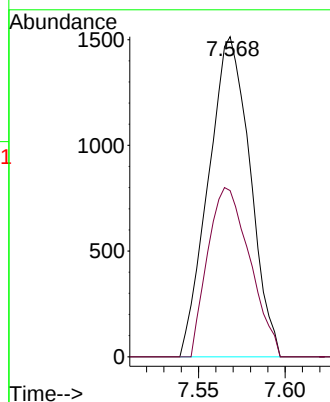
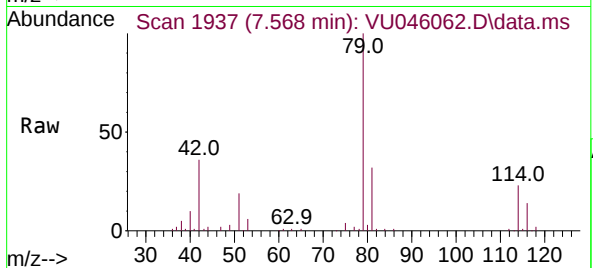
ClientSampleId :

Tgt Ion: 75 Resp: 2523

Ion Ratio Lower Upper

75 100

77 51.9 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 11.999 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

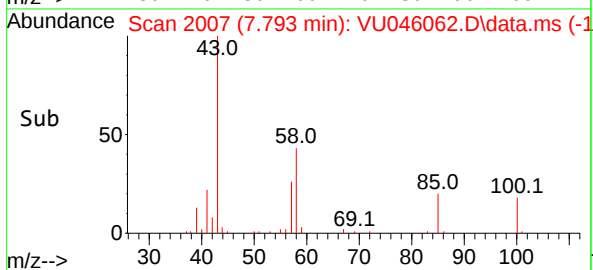
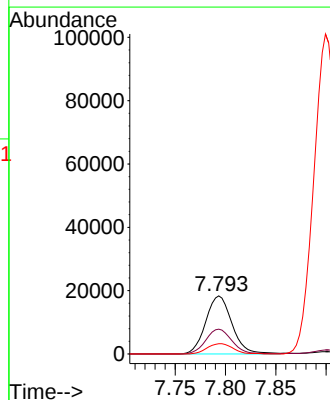
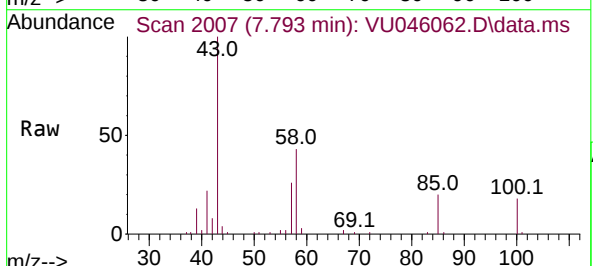
Tgt Ion: 43 Resp: 33276

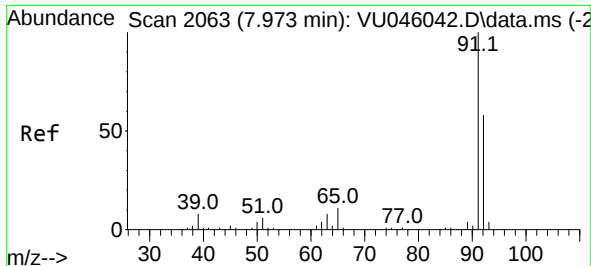
Ion Ratio Lower Upper

43 100

58 42.7 34.2 51.4

100 17.5 14.5 21.7





#42

Toluene

Concen: 19.426 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

Instrument :

MSVOA_U

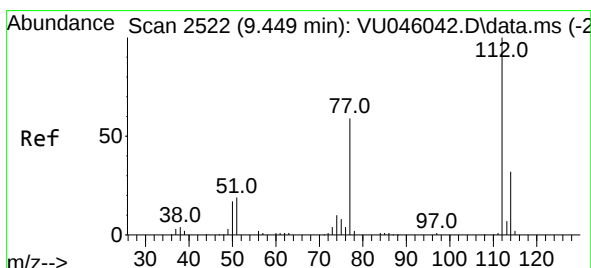
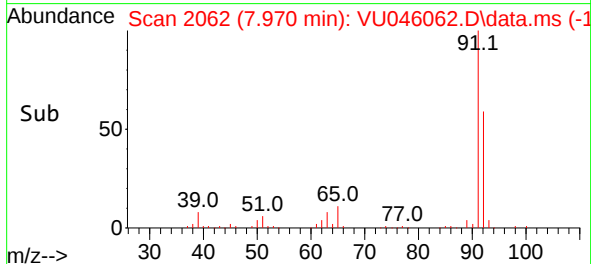
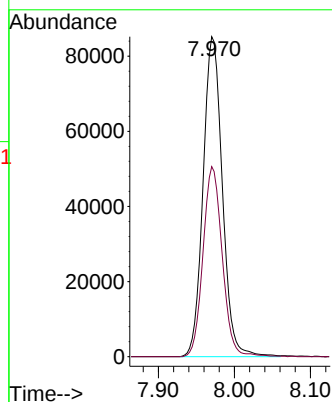
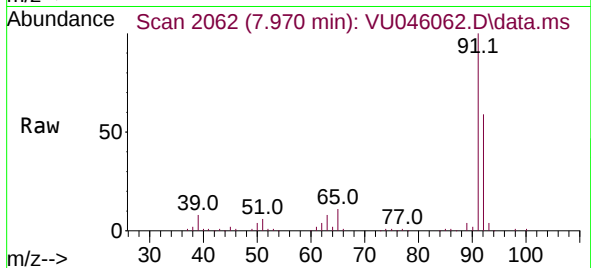
ClientSampleId :

Tgt Ion: 91 Resp: 150192

Ion Ratio Lower Upper

91 100

92 59.4 41.9 77.7



#51

Chlorobenzene

Concen: 0.788 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. 0.000 min

Lab File: VU046062.D

Acq: 02 Dec 2021 18:57

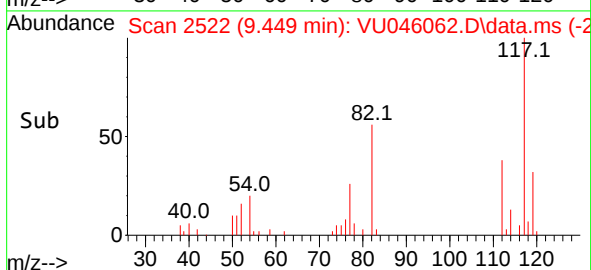
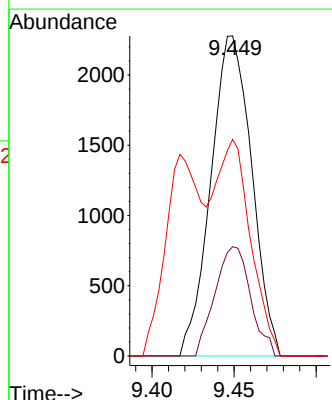
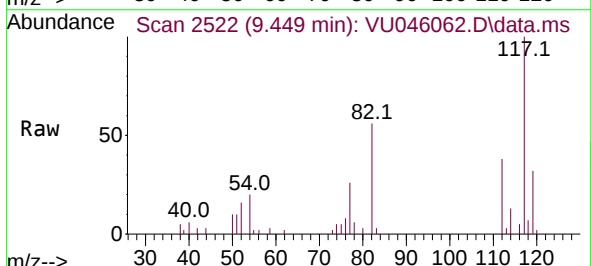
Tgt Ion: 112 Resp: 3943

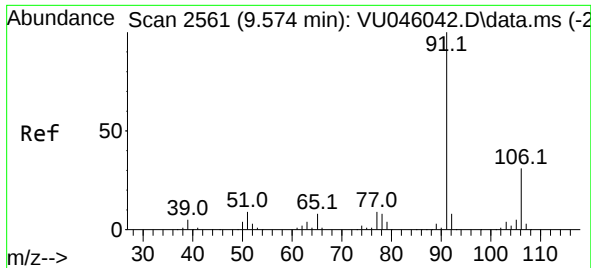
Ion Ratio Lower Upper

112 100

114 34.2 22.2 41.2

77 67.7 47.4 71.0

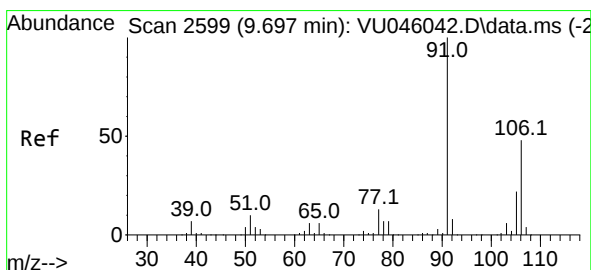
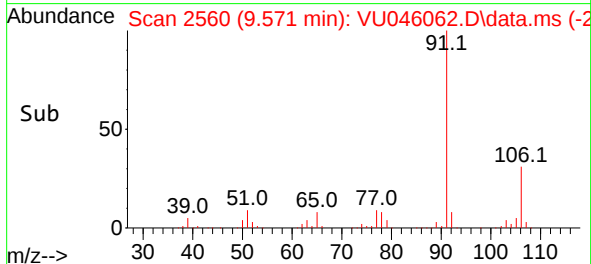
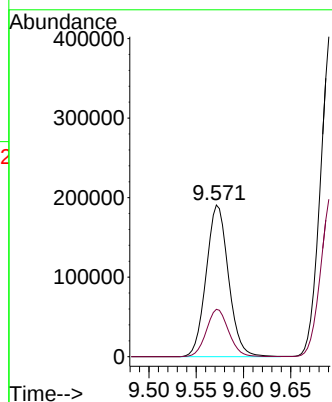
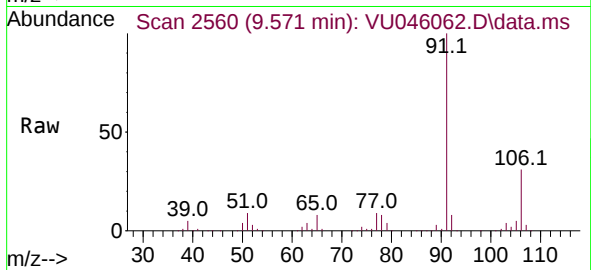




#52
Ethylbenzene
Concen: 37.672 ug/L
RT: 9.571 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

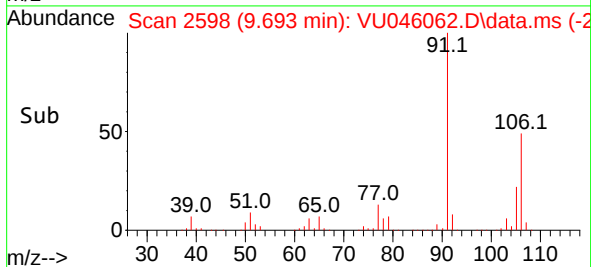
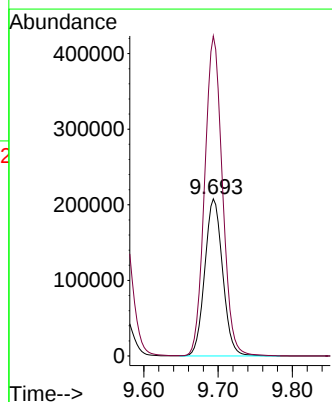
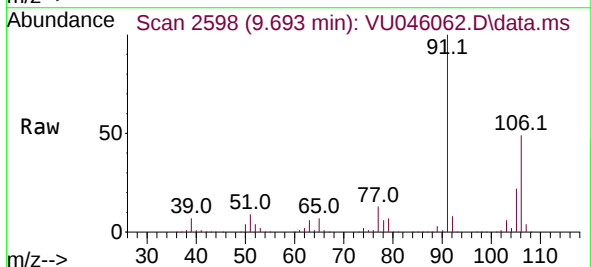
Instrument :
MSVOA_U
ClientSampleId :

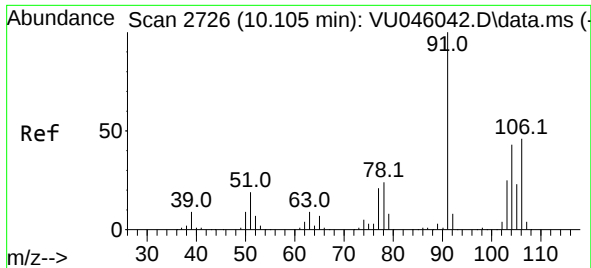
Tgt Ion: 91 Resp: 313455
Ion Ratio Lower Upper
91 100
106 31.2 21.1 39.3



#53
m,p-Xylene
Concen: 106.998 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

Tgt Ion:106 Resp: 347201
Ion Ratio Lower Upper
106 100
91 203.6 144.3 268.1

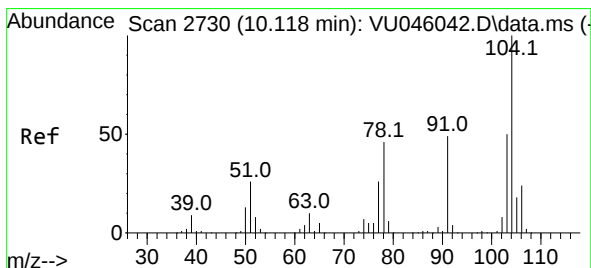
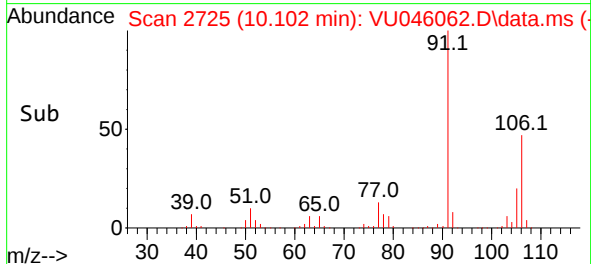
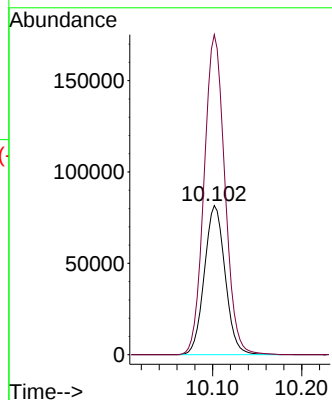
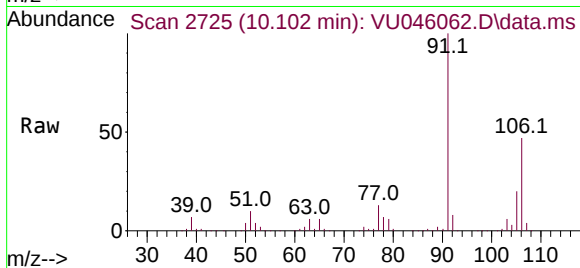




#54
o-xylene
Concen: 42.011 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

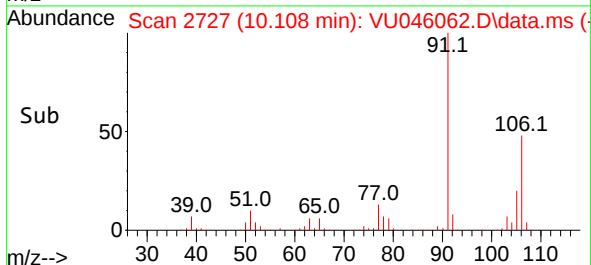
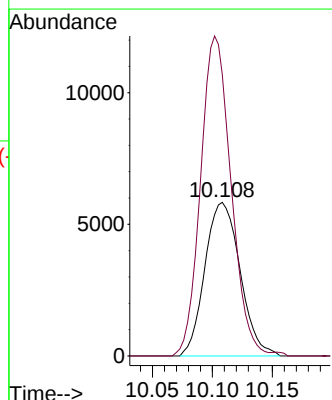
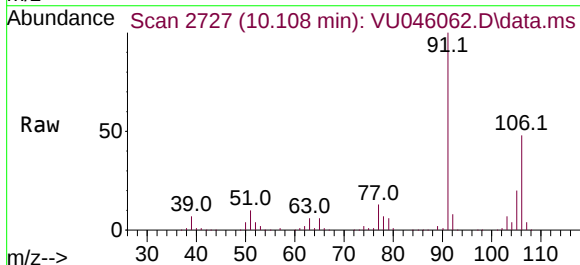
Instrument :
MSVOA_U
ClientSampleId :

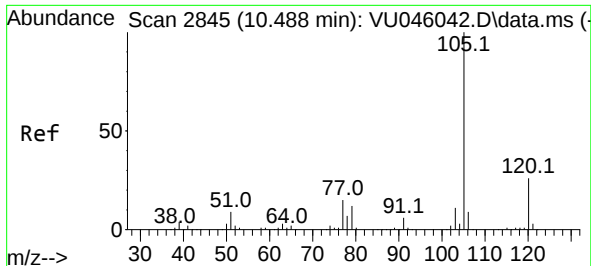
Tgt Ion:106 Resp: 132279
Ion Ratio Lower Upper
106 100
91 214.7 154.2 286.4



#55
Styrene
Concen: 2.216 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.010 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

Tgt Ion:104 Resp: 11912
Ion Ratio Lower Upper
104 100
78 183.3 32.6 60.5#

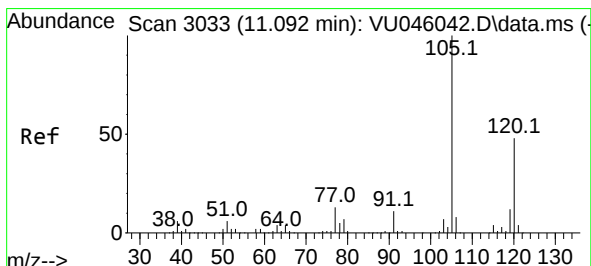
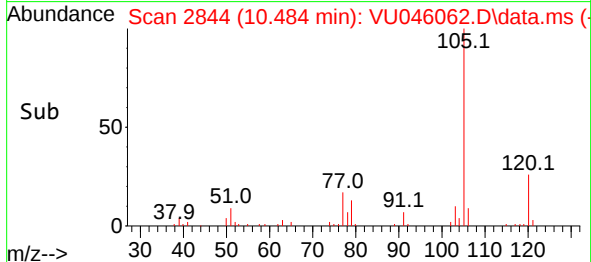
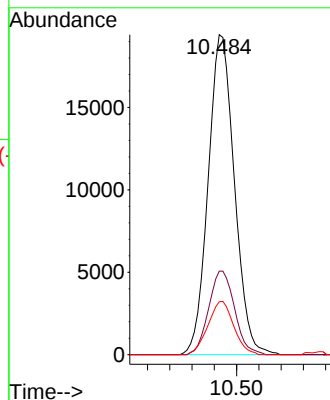
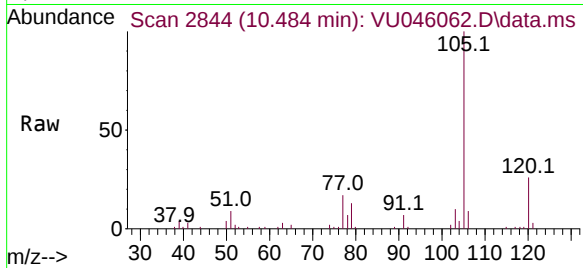




#61
Isopropylbenzene
Concen: 3.831 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

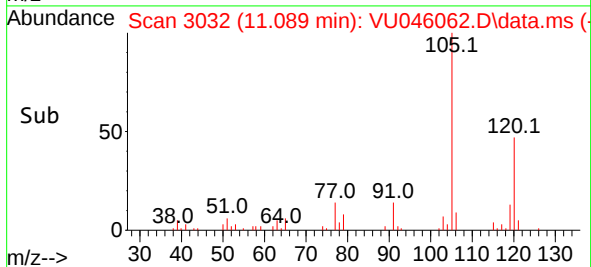
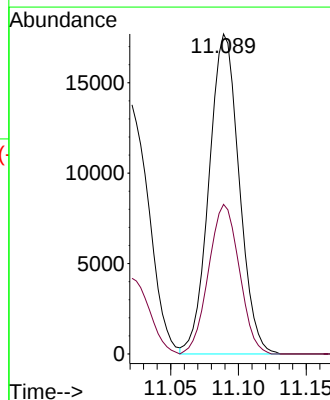
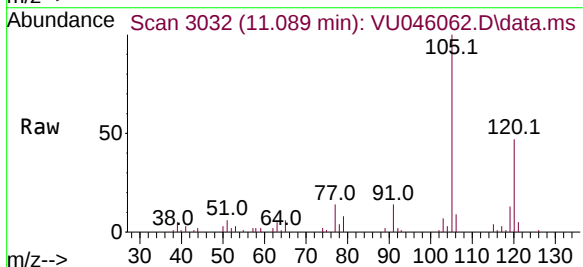
Instrument :
MSVOA_U
ClientSampleId :

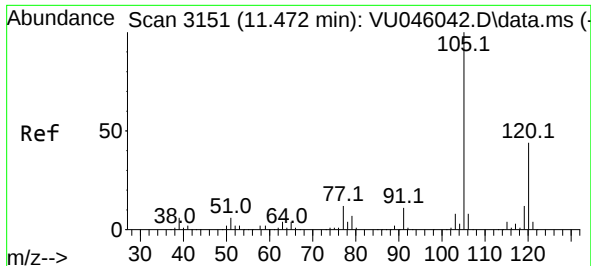
Tgt Ion:105 Resp: 31750
Ion Ratio Lower Upper
105 100
120 25.8 20.7 31.1
77 16.3 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 3.961 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

Tgt Ion:105 Resp: 27365
Ion Ratio Lower Upper
105 100
120 47.7 37.8 56.6

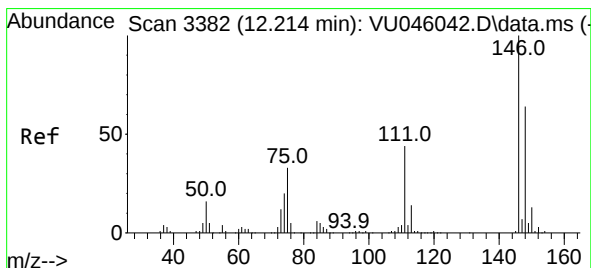
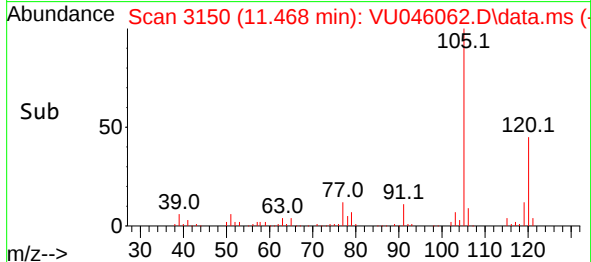
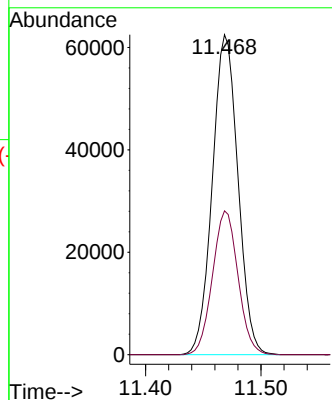
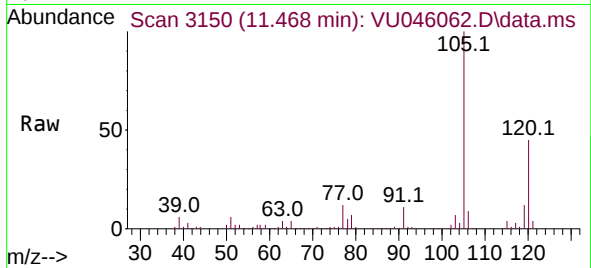




#63
1,2,4-Trimethylbenzene
Concen: 13.919 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

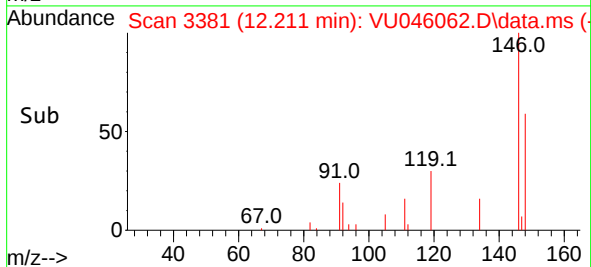
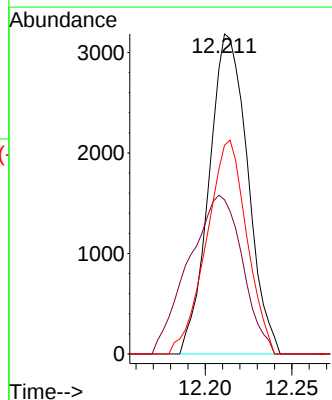
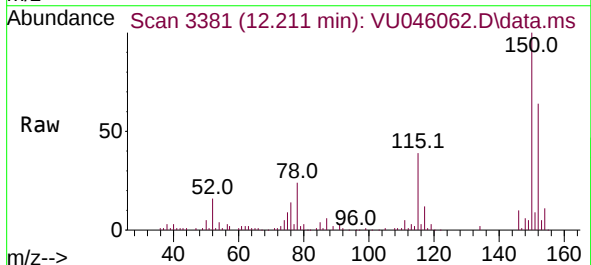
Instrument :
MSVOA_U
ClientSampleId :

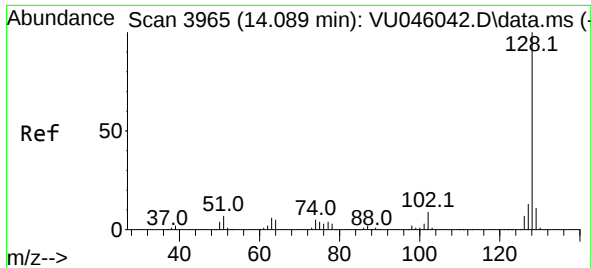
Tgt Ion:105 Resp: 96203
Ion Ratio Lower Upper
105 100
120 44.7 35.2 52.8



#67
1,2-Dichlorobenzene
Concen: 1.245 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.003 min
Lab File: VU046062.D
Acq: 02 Dec 2021 18:57

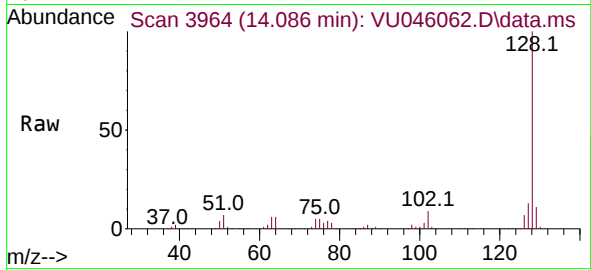
Tgt Ion:146 Resp: 4935
Ion Ratio Lower Upper
146 100
111 48.2 35.7 53.5
148 65.2 51.2 76.8





#71
 Naphthalene
 Concen: 42.835 ug/L
 RT: 14.086 min Scan# 3964
 Delta R.T. -0.003 min
 Lab File: VU046062.D
 Acq: 02 Dec 2021 18:57

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:128 Resp: 379434
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.1 15.1
 129 10.9 8.6 13.0

