

Data File : VU028823.D
Acq On : 20 Dec 2018 14:42
Operator : MD/SY
Sample : J6468-15
Misc : 6.35g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0JH1

Quant Time: Dec 21 03:56:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 03:50:07 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	228866	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	227248	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	118124	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	67430	36.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.50%
7) Chloroethane-d5	1.70	69	132	0.09	ug/L	0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.18%#
11) 1,1-Dichloroethene-d2	2.23	63	86627	28.07	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.14%#
21) 2-Butanone-d5	4.19	46	112588	87.58	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.58%
24) Chloroform-d	4.64	84	112799	39.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.20%
26) 1,2-Dichloroethane-d4	5.30	65	72278	40.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.28%
32) Benzene-d6	5.33	84	250145	38.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.92%
36) 1,2-Dichloropropane-d6	6.32	67	86998	39.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	79.78%
41) Toluene-d8	7.56	98	232234	39.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.84%#
43) trans-1,3-Dichloropropene-	7.85	79	40239	41.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.34%
47) 2-Hexanone-d5	8.32	63	99887	96.43	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.43%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	135641	44.83	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.66%
64) 1,2-Dichlorobenzene-d4	11.86	152	99873	41.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.60%

Target Compounds

					Qvalue
3) Chloromethane	1.32	50	2745	1.082 ug/L	95
5) Vinyl chloride	1.40	62	2398	1.070 ug/L #	28
6) Bromomethane	1.60	94	552	0.578 ug/L	77
10) 1,1,2-Trichloro-1,2,2-trif	2.24	101	862	0.581 ug/L #	20
13) Acetone	2.35	43	941	0.718 ug/L	64
15) Methyl Acetate	2.63	43	2687	1.316 ug/L #	89
17) trans-1,2-Dichloroethene	2.96	96	628	0.395 ug/L	77
19) 1,1-Dichloroethane	3.43	63	13717	4.438 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	10751	5.970 ug/L	94
27) 1,2-Dichloroethane	5.33	62	1267	0.580 ug/L #	74
34) Trichloroethene	6.18	95	5550	3.178 ug/L #	86
39) cis-1,3-Dichloropropene	7.23	75	1864	0.646 ug/L #	52
42) Toluene	7.64	91	123604	16.854 ug/L	100
46) Tetrachloroethene	8.22	164	3602	2.678 ug/L	81
49) Dibromochloromethane	8.23	129	3087	1.792 ug/L #	11
52) Ethylbenzene	9.25	91	2555448	324.286 ug/L	98
53) m,p-Xylene	9.38	106	3624270	1243.738 ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Quantitation Report (Not Reviewed)

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 03:50:07 2018
Response via : Initial Calibration

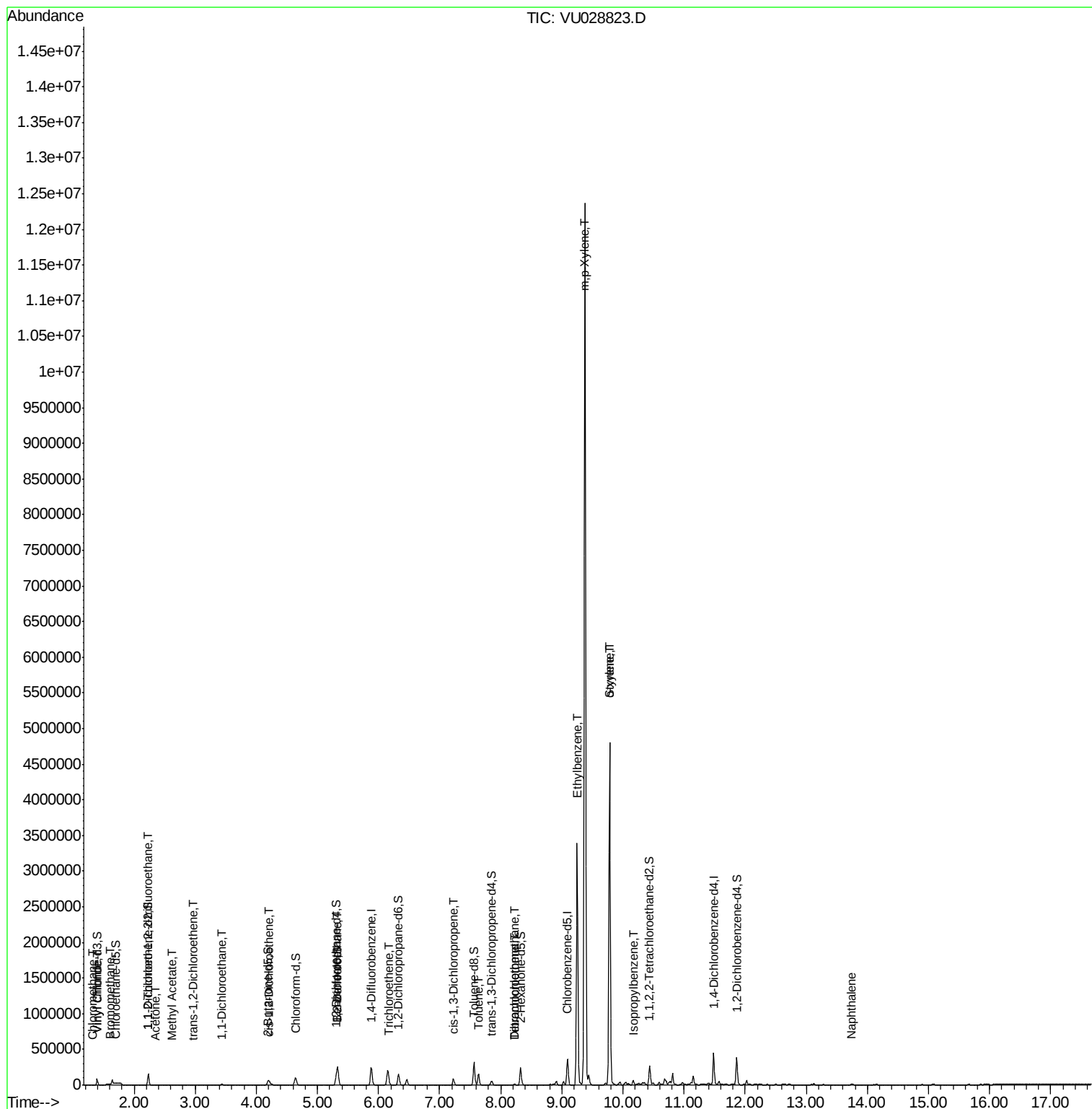
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.78	106	1334166	456.814	ug/L	100
55) Styrene	9.78	104	63045	12.746	ug/L #	1
56) Isopropylbenzene	10.17	105	45159	6.095	ug/L	99
69) Naphthalene	13.75	128	14520	1.805	ug/L	99

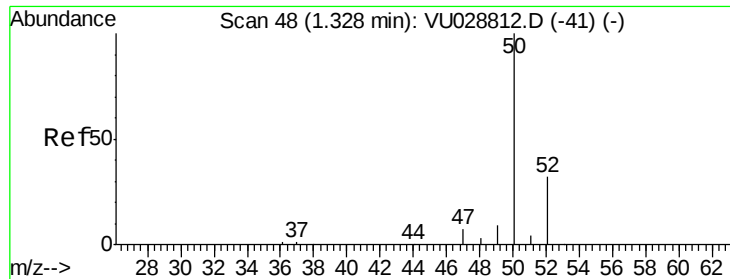
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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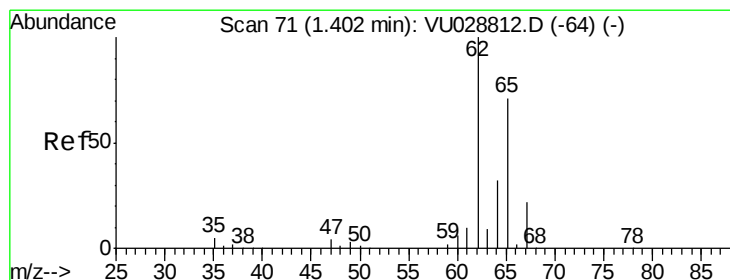
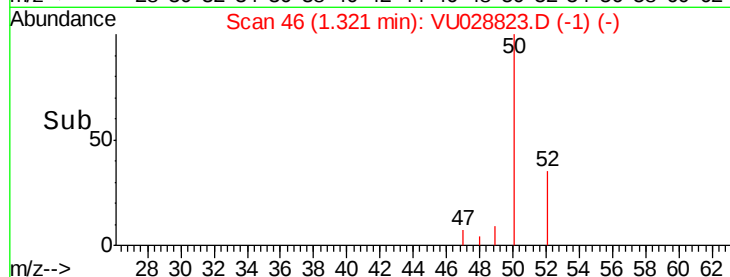
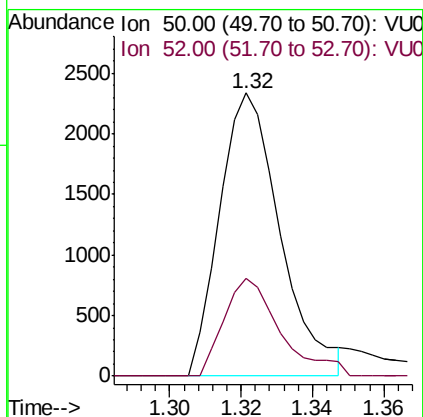
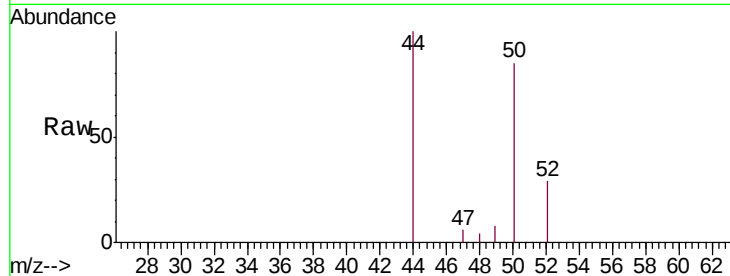




#3
Chloromethane
Concen: 1.082 ug/L
RT: 1.32 min Scan# 46
Delta R.T. -0.01 min
Lab File: VU028823.D
Acq: 20 Dec 2018 14:42

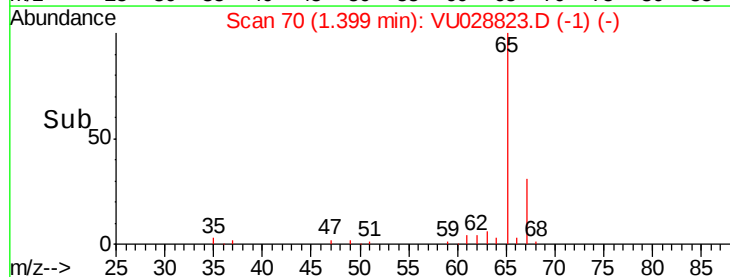
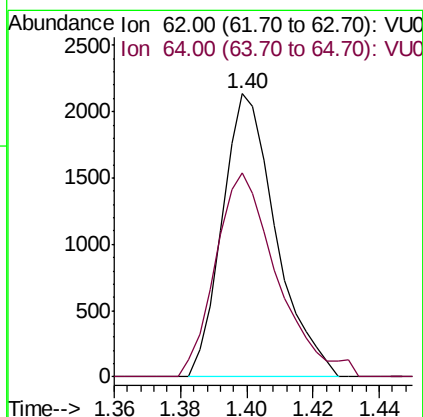
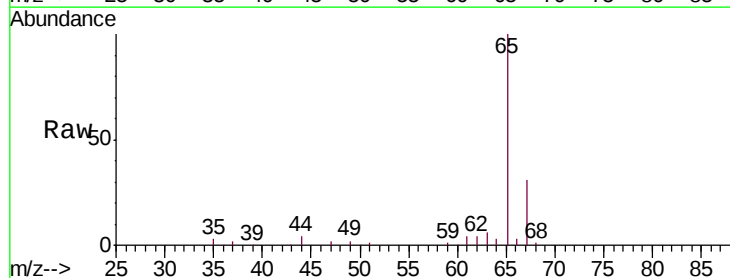
Instrument :
MSVOA_U
ClientSampled :
C0JH1

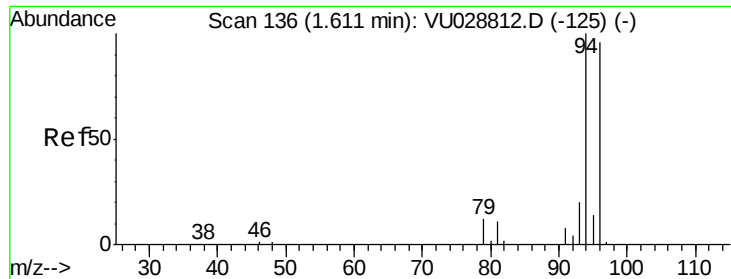
Tgt Ion: 50 Resp: 2745
Ion Ratio Lower Upper
50 100
52 34.6 22.3 41.3



#5
Vinyl chloride
Concen: 1.070 ug/L
RT: 1.40 min Scan# 70
Delta R.T. -0.00 min
Lab File: VU028823.D
Acq: 20 Dec 2018 14:42

Tgt Ion: 62 Resp: 2398
Ion Ratio Lower Upper
62 100
64 72.1 22.3 41.3#





#6

Bromomethane

Concen: 0.578 ug/L

RT: 1.60 min Scan# 132

Delta R.T. -0.01 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

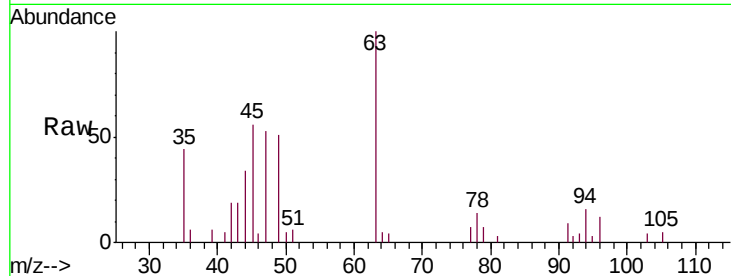
C0JH1

Tgt Ion: 94 Resp: 552

Ion Ratio Lower Upper

94 100

96 73.7 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

600

500

400

300

200

100

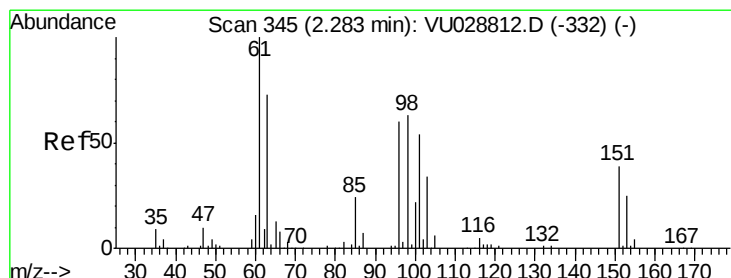
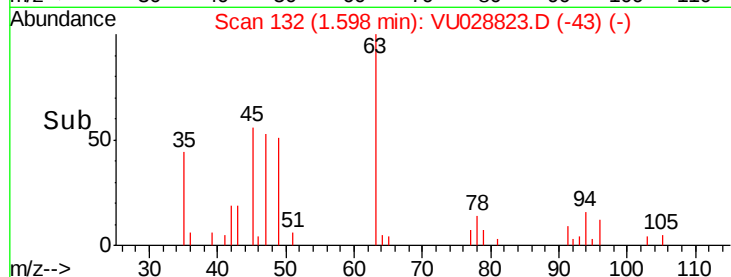
0

1.58

1.60

1.62

Time-->



#10

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

Concen: 0.581 ug/L

RT: 2.24 min Scan# 331

Delta R.T. -0.04 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

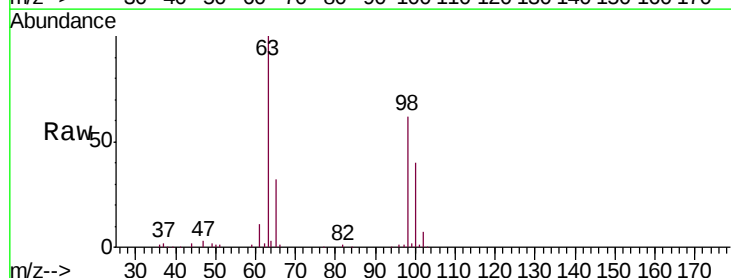
Tgt Ion: 101 Resp: 862

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

151 0.0 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

600

500

400

300

200

100

0

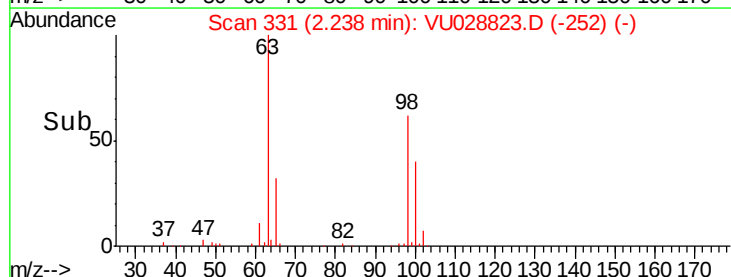
2.20

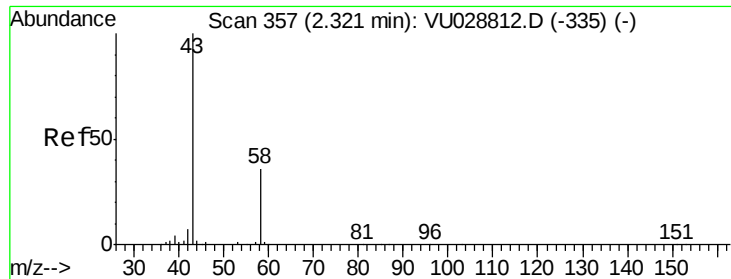
2.22

2.24

2.26

Time-->





#13

Acetone

Concen: 0.718 ug/L

RT: 2.35 min Scan# 366

Delta R.T. 0.03 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

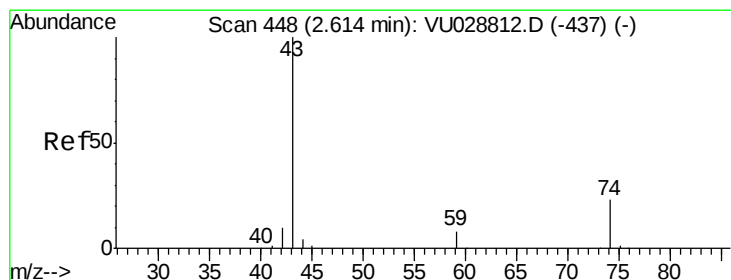
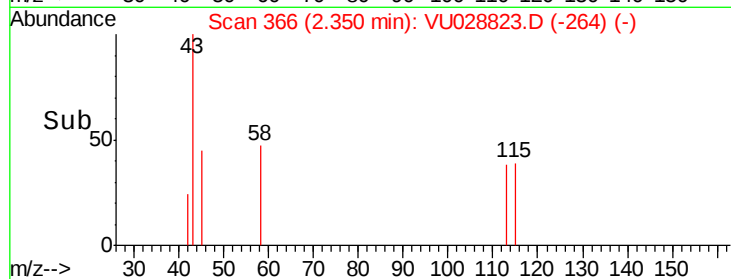
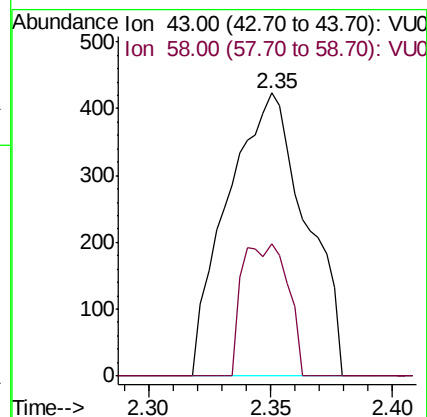
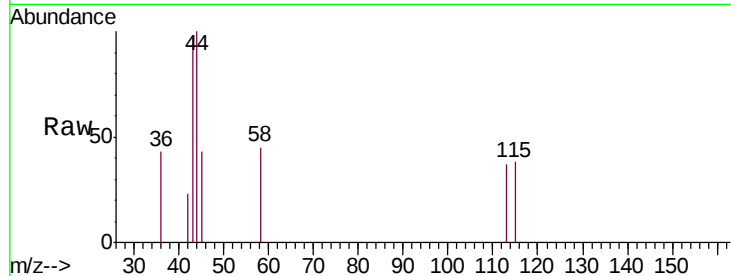
C0JH1

Tgt Ion: 43 Resp: 941

Ion Ratio Lower Upper

43 100

58 14.5 0.0 70.2



#15

Methyl Acetate

Concen: 1.316 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU028823.D

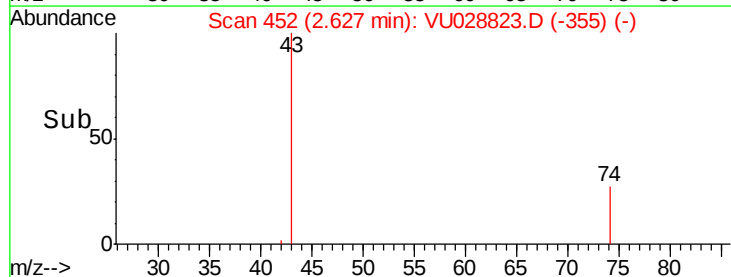
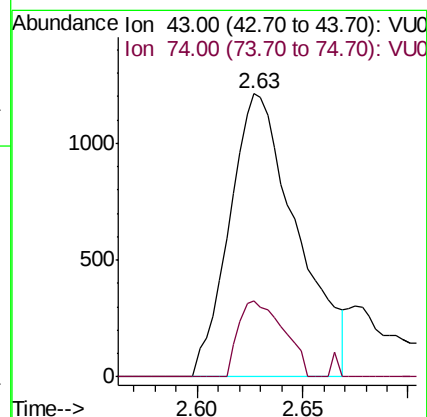
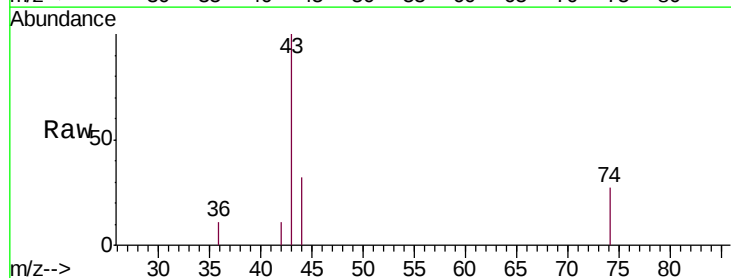
Acq: 20 Dec 2018 14:42

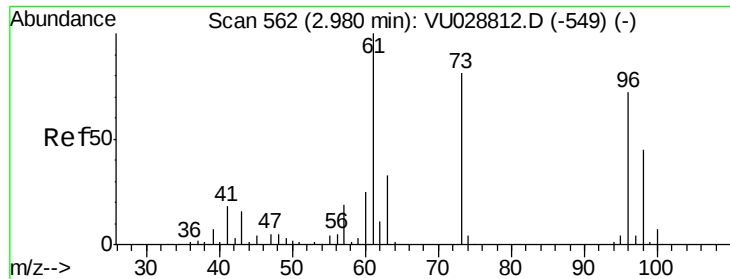
Tgt Ion: 43 Resp: 2687

Ion Ratio Lower Upper

43 100

74 18.1 19.0 28.4#





#17

trans-1,2-Dichloroethene

Concen: 0.395 ug/L

RT: 2.96 min Scan# 556

Delta R.T. -0.02 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

C0JH1

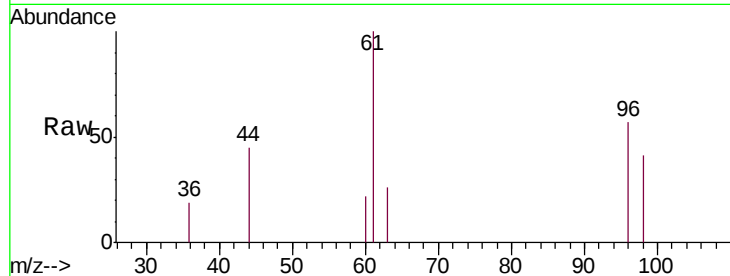
Tgt Ion: 96 Resp: 628

Ion Ratio Lower Upper

96 100

61 174.3 97.9 181.7

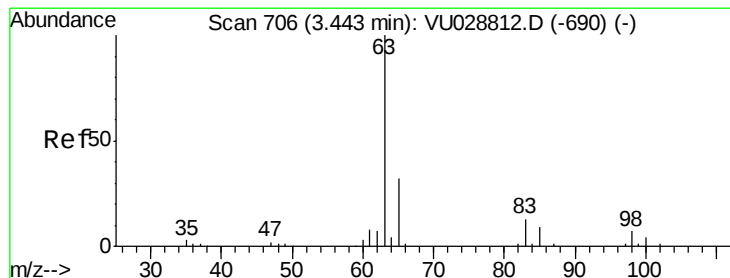
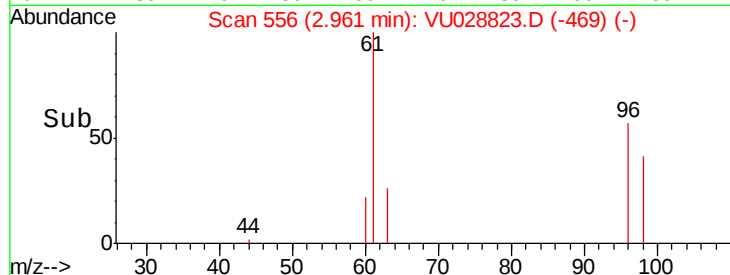
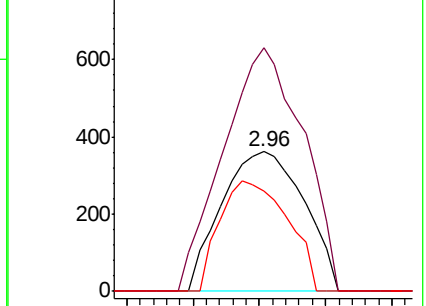
98 71.5 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#19

1,1-Dichloroethane

Concen: 4.438 ug/L

RT: 3.43 min Scan# 702

Delta R.T. -0.01 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

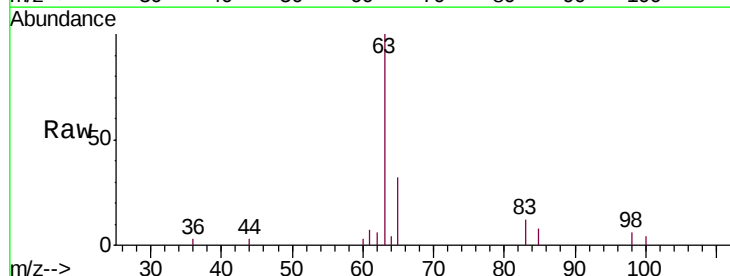
Tgt Ion: 63 Resp: 13717

Ion Ratio Lower Upper

63 100

65 31.8 22.7 42.1

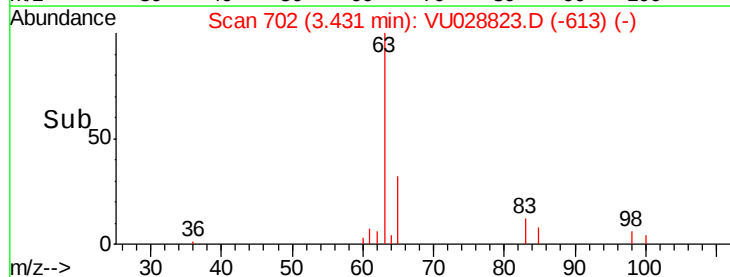
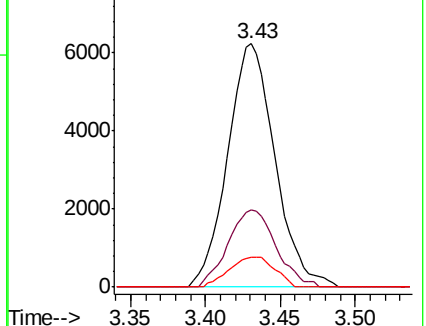
83 12.1 9.0 16.8

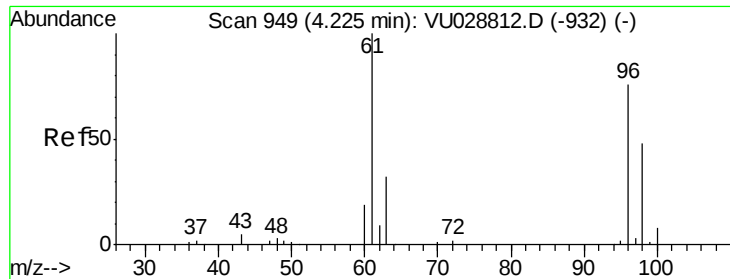


Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

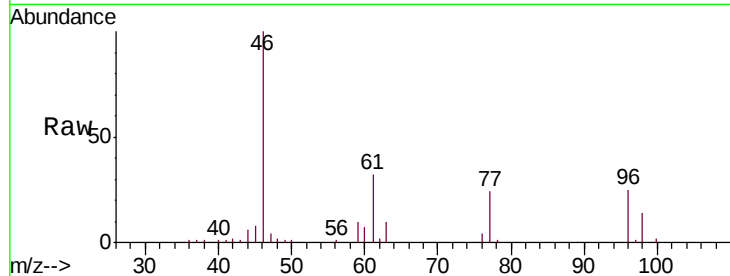




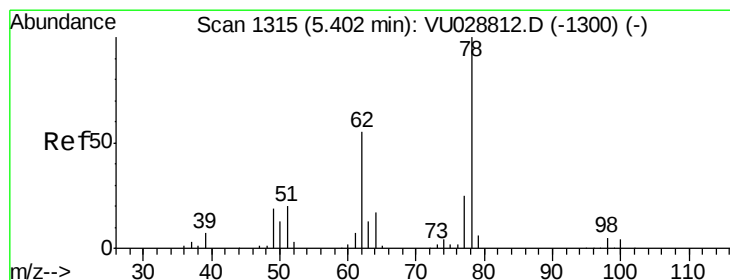
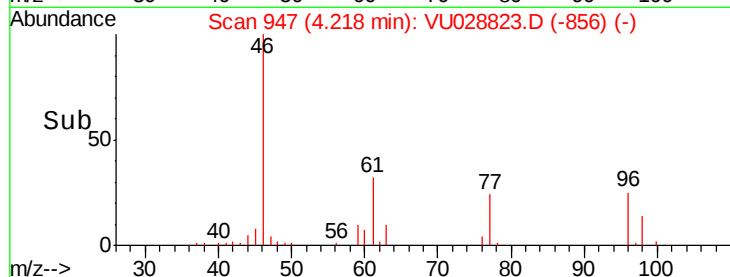
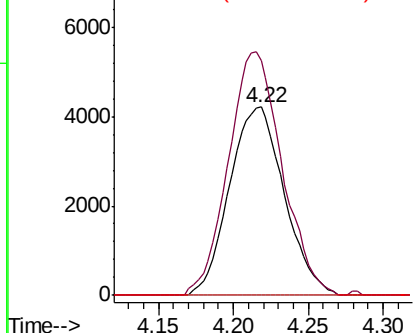
#20
 cis-1,2-Dichloroethene
 Concen: 5.970 ug/L
 RT: 4.22 min Scan# 947
 Delta R.T. -0.01 min
 Lab File: VU028823.D
 Acq: 20 Dec 2018 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JH1

Tgt Ion: 96 Resp: 10751
 Ion Ratio Lower Upper
 96 100
 61 125.0 92.1 171.1
 68 0.0 0.0 0.0

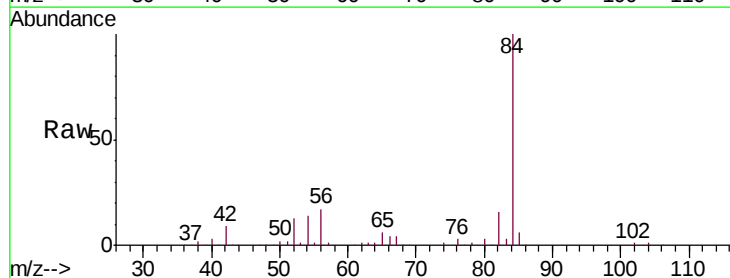


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

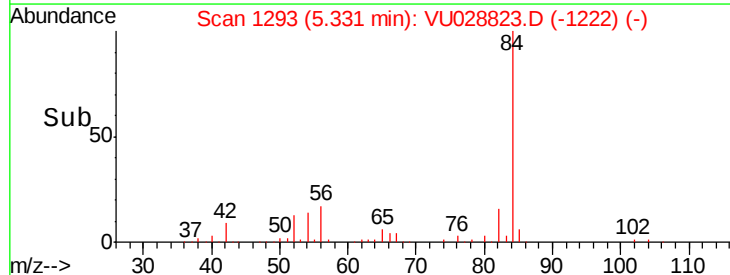
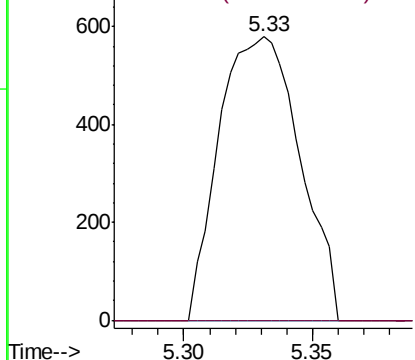


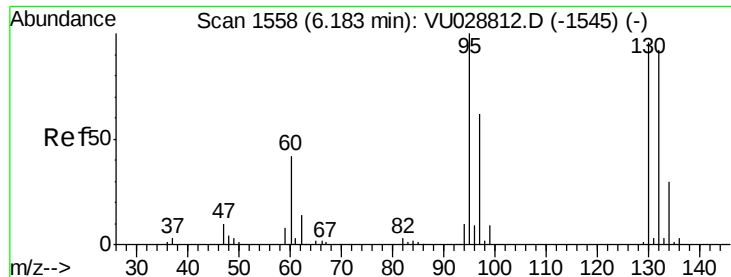
#27
 1,2-Dichloroethane
 Concen: 0.580 ug/L
 RT: 5.33 min Scan# 1293
 Delta R.T. -0.07 min
 Lab File: VU028823.D
 Acq: 20 Dec 2018 14:42

Tgt Ion: 62 Resp: 1267
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#34

Trichloroethene

Concen: 3.178 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampled :

C0JH1

Tgt Ion: 95 Resp: 5550

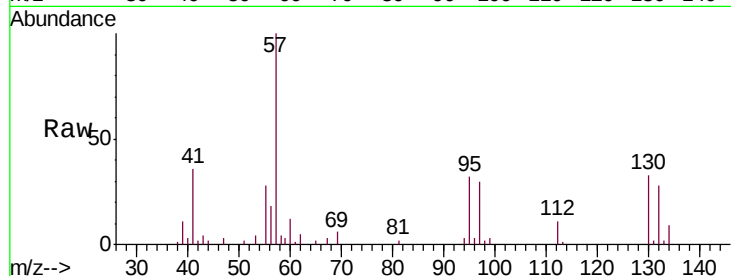
Ion Ratio Lower Upper

95 100

97 95.6 43.3 80.3#

132 90.0 64.2 119.2

130 103.2 67.1 124.7

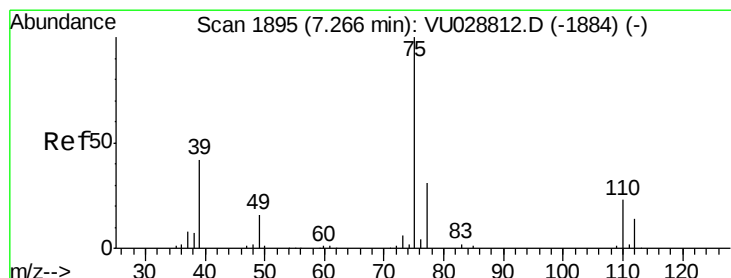
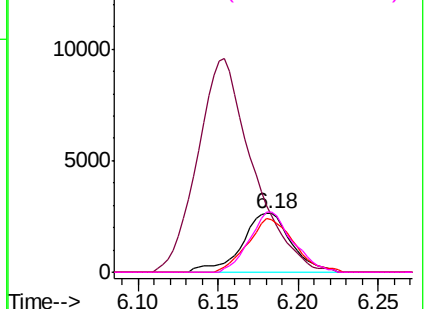
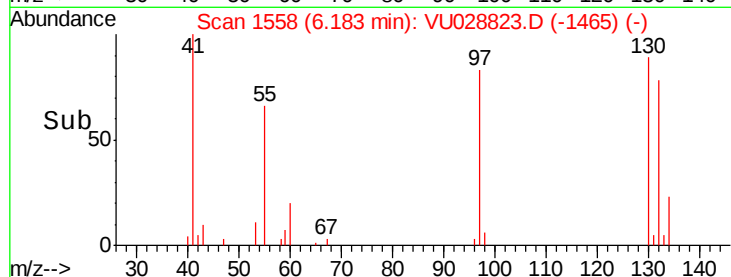


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#39

cis-1,3-Dichloropropene

Concen: 0.646 ug/L

RT: 7.23 min Scan# 1883

Delta R.T. -0.04 min

Lab File: VU028823.D

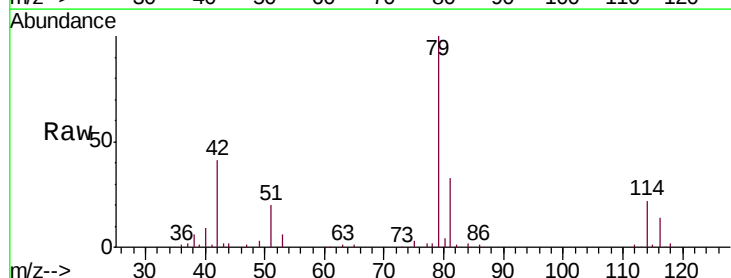
Acq: 20 Dec 2018 14:42

Tgt Ion: 75 Resp: 1864

Ion Ratio Lower Upper

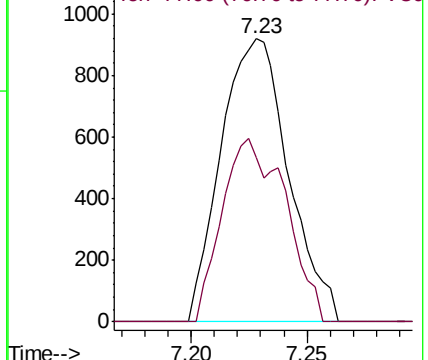
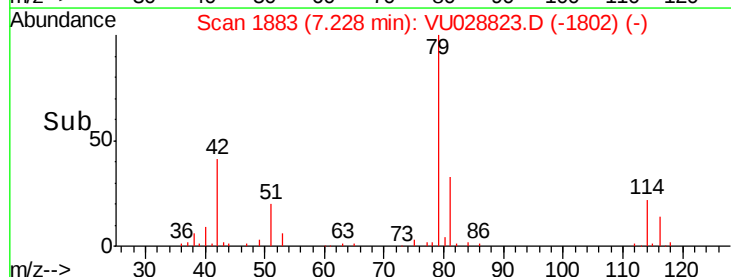
75 100

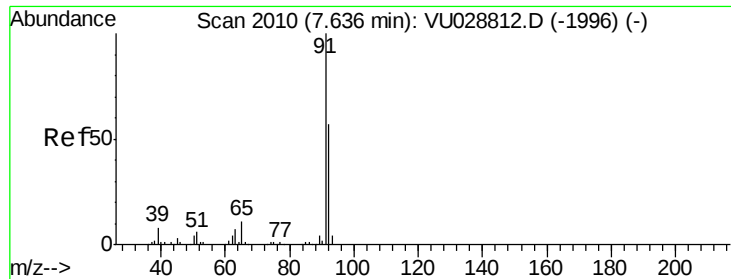
77 57.9 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#42

Toluene

Concen: 16.854 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

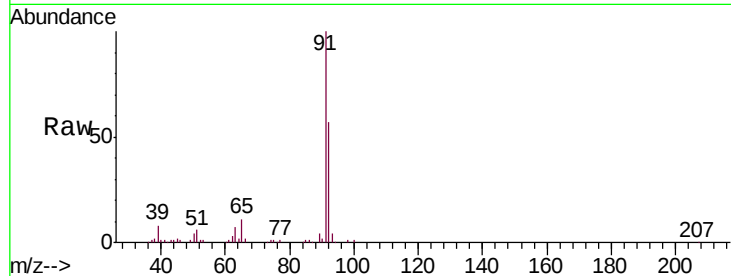
C0JH1

Tgt Ion: 91 Resp: 123604

Ion Ratio Lower Upper

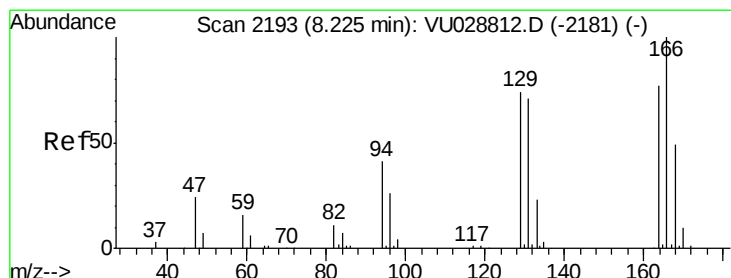
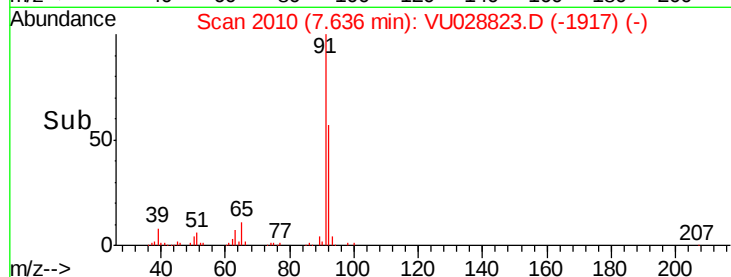
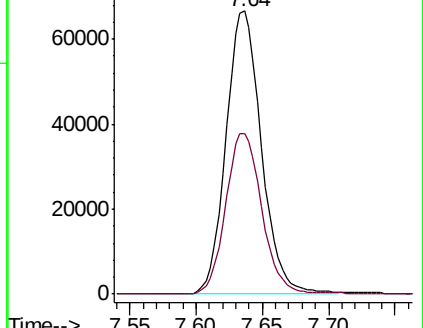
91 100

92 56.8 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU028812.D (-1996) (-)

Ion 92.00 (91.70 to 92.70): VU028812.D (-1996) (-)



#46

Tetrachloroethene

Concen: 2.678 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Tgt Ion: 164 Resp: 3602

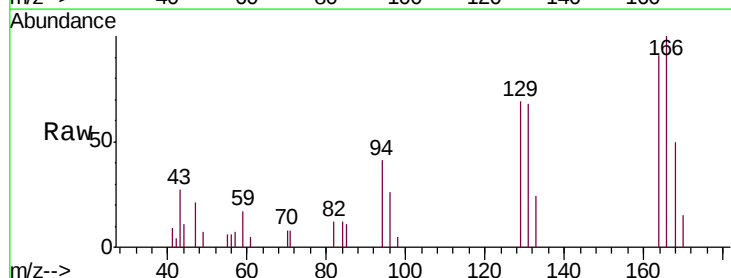
Ion Ratio Lower Upper

164 100

129 75.1 66.8 124.0

131 74.6 64.2 119.2

166 109.7 90.8 168.6

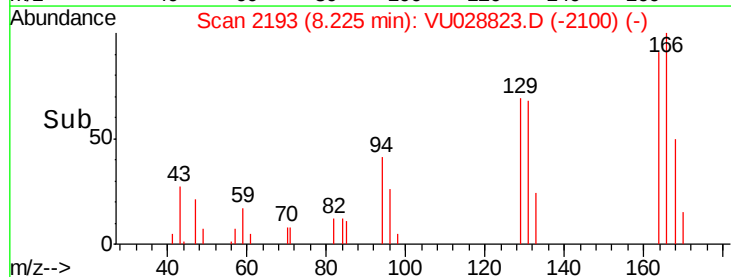
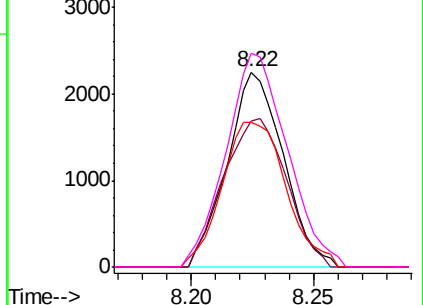


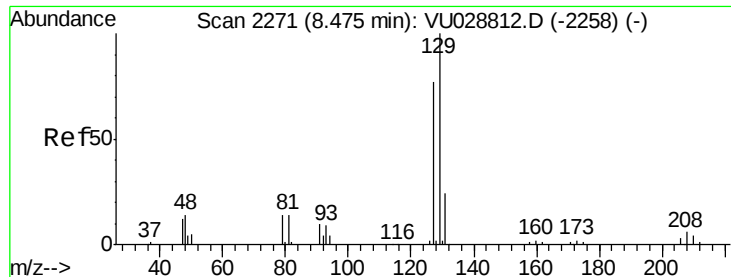
Abundance Ion 164.00 (163.70 to 164.70): VU028812.D (-2181) (-)

Ion 129.00 (128.70 to 129.70): VU028812.D (-2181) (-)

Ion 131.00 (130.70 to 131.70): VU028812.D (-2181) (-)

Ion 166.00 (165.70 to 166.70): VU028812.D (-2181) (-)





#49

Dibromochloromethane

Concen: 1.792 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

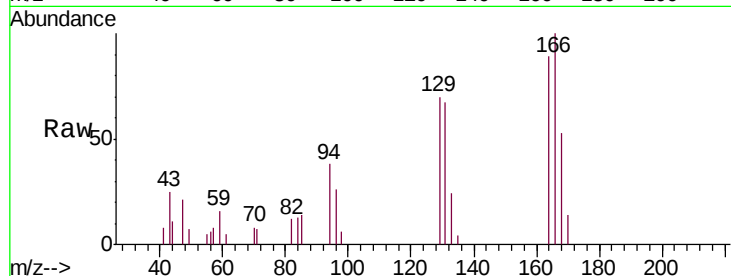
C0JH1

Tgt Ion:129 Resp: 3087

Ion Ratio Lower Upper

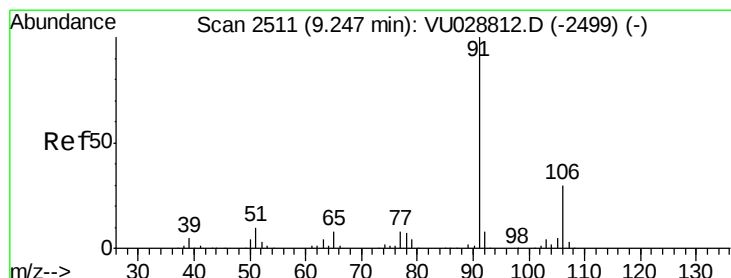
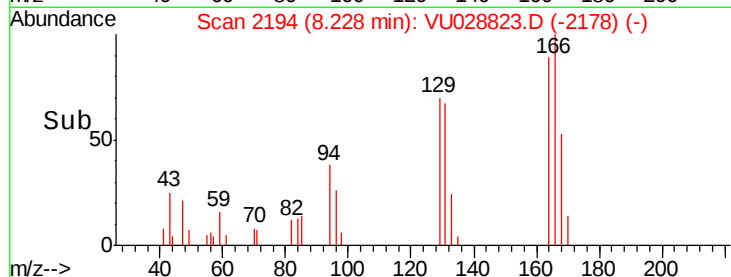
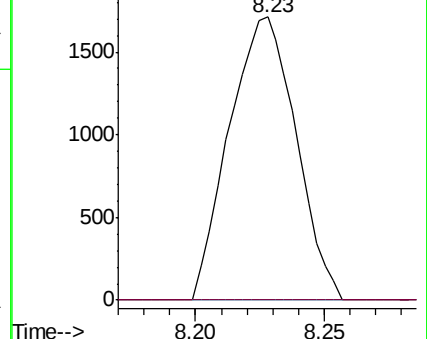
129 100

127 0.0 54.1 100.5#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Ethylbenzene

Concen: 324.286 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028823.D

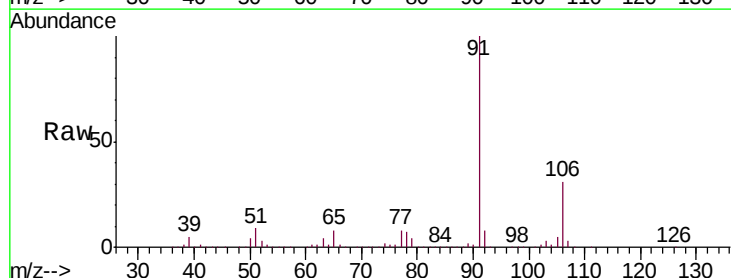
Acq: 20 Dec 2018 14:42

Tgt Ion: 91 Resp: 2555448

Ion Ratio Lower Upper

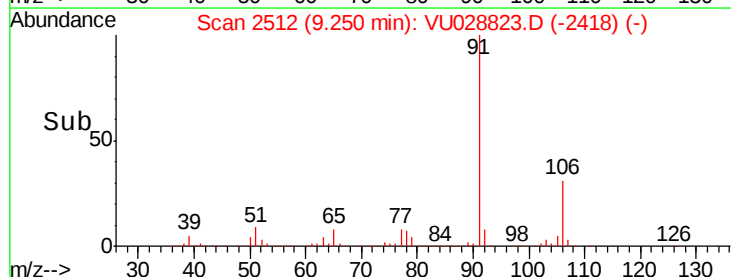
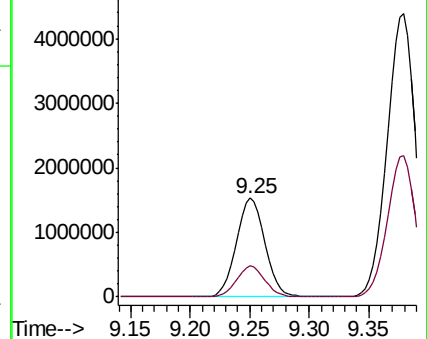
91 100

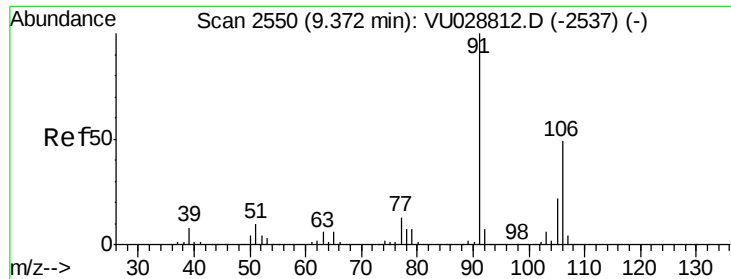
106 31.0 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1243.738 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

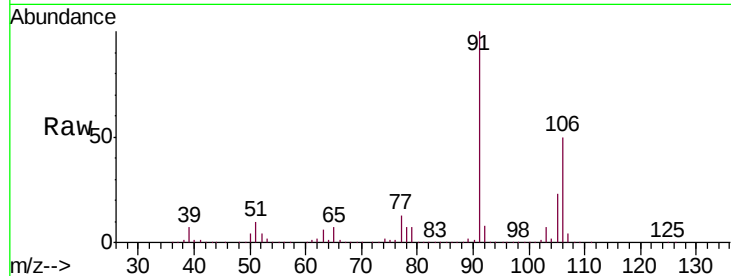
C0JH1

Tgt Ion:106 Resp: 3624270

Ion Ratio Lower Upper

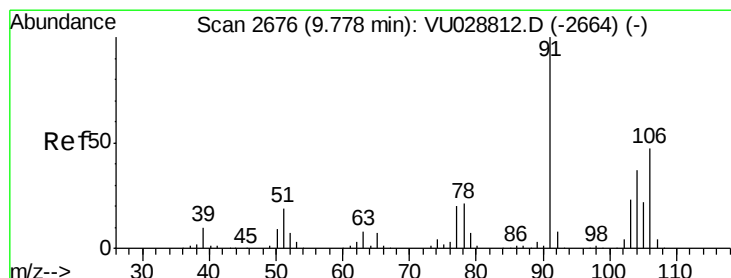
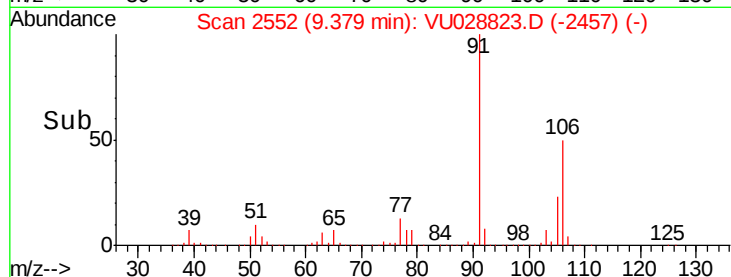
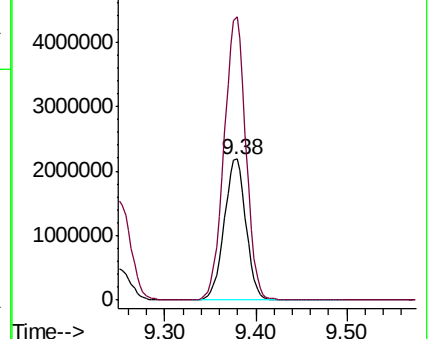
106 100

91 200.9 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 456.814 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU028823.D

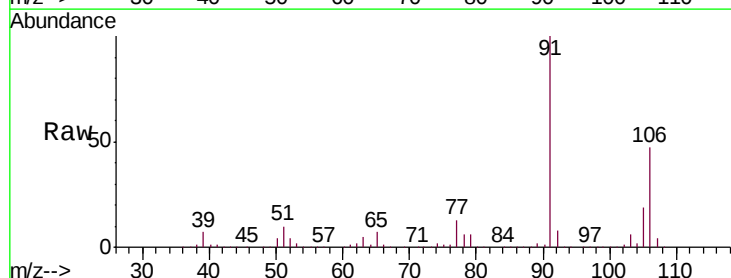
Acq: 20 Dec 2018 14:42

Tgt Ion:106 Resp: 1334166

Ion Ratio Lower Upper

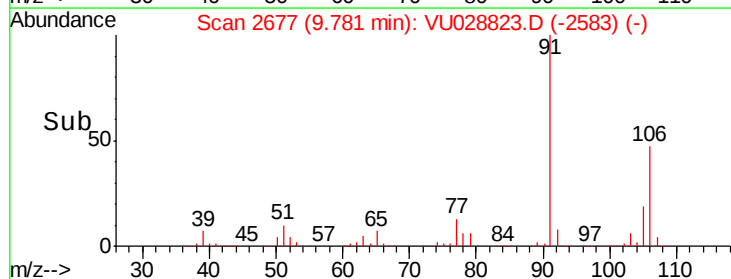
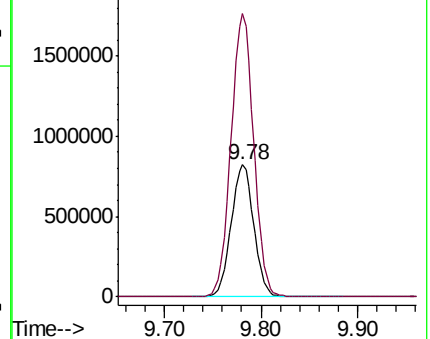
106 100

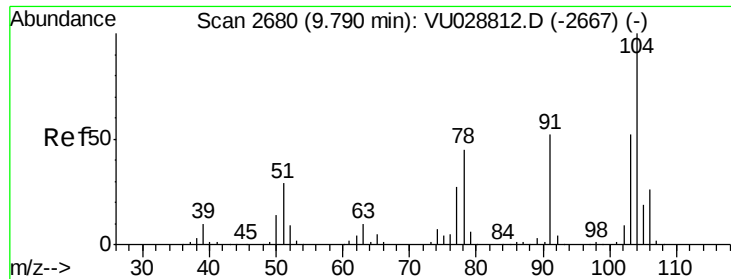
91 214.7 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Styrene

Concen: 12.746 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.01 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

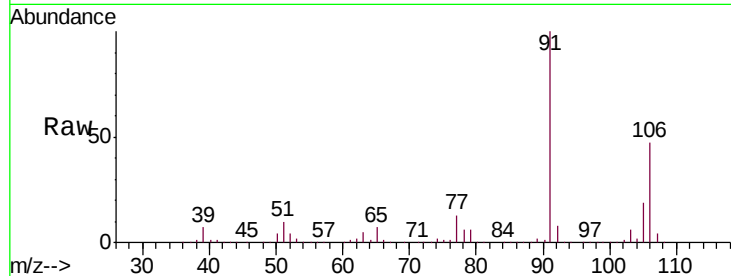
C0JH1

Tgt Ion:104 Resp: 63045

Ion Ratio Lower Upper

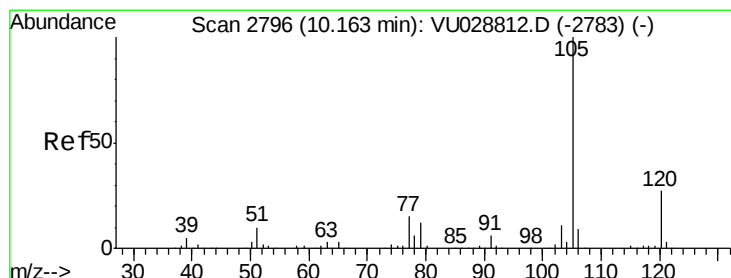
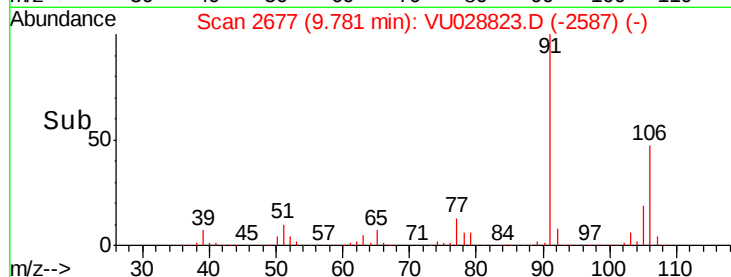
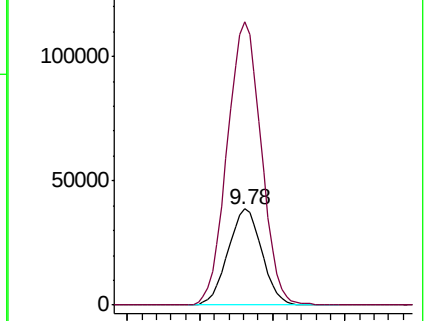
104 100

78 294.3 31.3 58.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 6.095 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

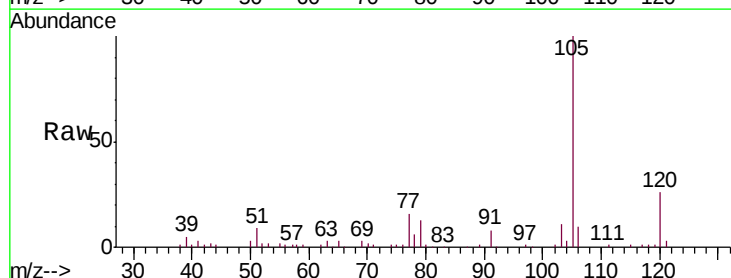
Tgt Ion:105 Resp: 45159

Ion Ratio Lower Upper

105 100

120 26.3 21.4 32.2

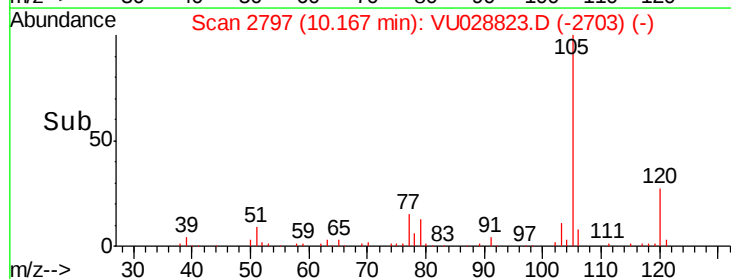
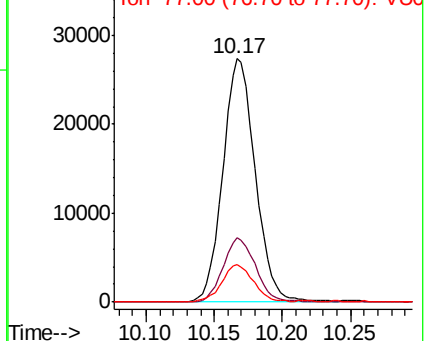
77 15.2 12.3 18.5

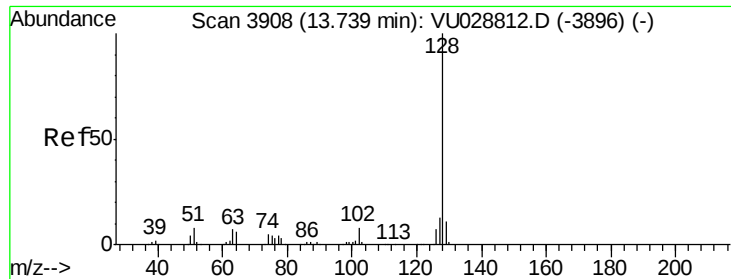


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 1.805 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.01 min

Lab File: VU028823.D

Acq: 20 Dec 2018 14:42

Instrument :

MSVOA_U

ClientSampleId :

C0JH1

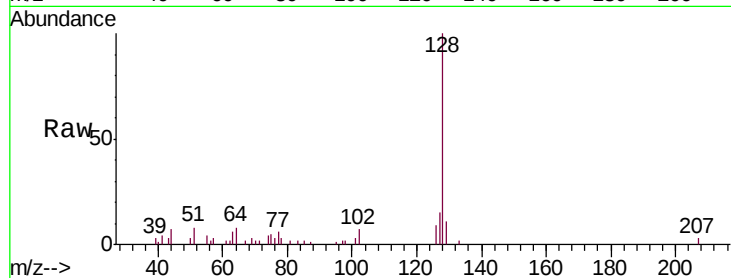
Tgt Ion:128 Resp: 14520

Ion Ratio Lower Upper

128 100

127 12.9 10.5 15.7

129 10.4 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

