

Data File : VU036061.D
Acq On : 09 Dec 2019 20:56
Operator : JC/MD
Sample : K6167-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQW8

Quant Time: Dec 10 01:53:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 10 01:47:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	240902	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	254826	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	101176	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	108343	5.05	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.00%
7) Chloroethane-d5	1.93	69	134117	5.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	119.00%
11) 1,1-Dichloroethene-d2	2.59	63	126183	3.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.20%
20) 2-Butanone-d5	4.70	46	225901	61.74	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.48%
24) Chloroform-d	5.11	84	182300	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	5.75	65	95716	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
32) Benzene-d6	5.77	84	356713	5.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.60%
36) 1,2-Dichloropropane-d6	6.73	67	108310	5.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.40%
41) Toluene-d8	7.93	98	300525	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
43) trans-1,3-Dichloropropene-	8.21	79	32438	4.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.00%
46) 2-Hexanone-d5	8.68	63	168878	57.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.14%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	98411	5.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	116672	5.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	119.80%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	64076	2.656 ug/L	93
8) Chloroethane	1.95	64	53256	2.902 ug/L	95
12) 1,1-Dichloroethene	2.60	96	3610	0.172 ug/L #	1
13) Acetone	2.69	43	284025	61.152 ug/L	98
15) Methyl Acetate	2.99	43	5541	0.808 ug/L #	88
16) Methylene chloride	3.08	84	10835	0.445 ug/L	91
19) 1,1-Dichloroethane	3.92	63	190425	5.931 ug/L	97
21) 2-Butanone	4.79	43	21405	4.604 ug/L	89
22) cis-1,2-Dichloroethene	4.72	96	205411	10.940 ug/L	100
25) Chloroform	5.14	83	38964	1.089 ug/L	96
29) 1,1,1-Trichloroethane	5.36	97	94818	3.301 ug/L	96
31) Carbon tetrachloride	5.36	117	12291	0.473 ug/L	96
33) Benzene	5.82	78	86464	1.241 ug/L	100
34) Trichloroethene	6.58	95	5924	0.320 ug/L	91
35) Methylcyclohexane	6.73	83	27592	1.112 ug/L #	19
37) 1,2-Dichloropropane	6.73	63	11126	0.637 ug/L #	87
38) Bromodichloromethane	7.14	83	3780	0.161 ug/L #	83

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 10 01:47:47 2019
Response via : Initial Calibration

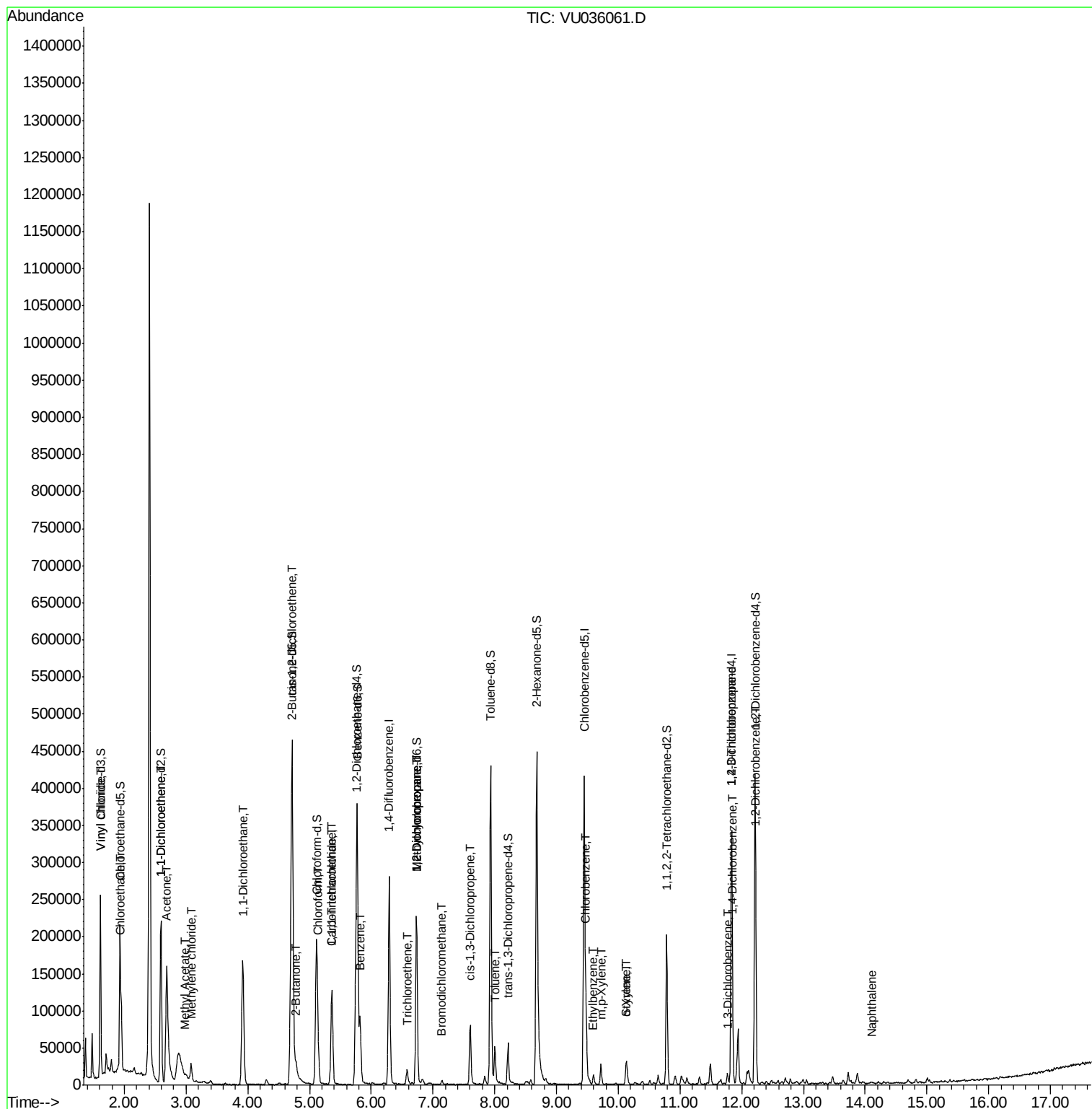
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.60	75	2159	0.091	ug/L #	37
42) Toluene	8.00	91	35844	0.480	ug/L	97
51) Chlorobenzene	9.48	112	57023	1.095	ug/L	98
52) Ethylbenzene	9.60	91	8637	0.110	ug/L	86
53) m,p-Xylene	9.72	106	8366	0.268	ug/L	84
54) o-Xylene	10.13	106	5953	0.203	ug/L	80
55) Styrene	10.14	104	8291	0.165	ug/L	81
59) 1,2,3-Trichloropropane	11.83	75	13018	1.042	ug/L	97
62) 1,3-Dichlorobenzene	11.77	146	2368	0.072	ug/L	88
63) 1,4-Dichlorobenzene	11.86	146	6875	0.211	ug/L	95
65) 1,2-Dichlorobenzene	12.24	146	6294	0.192	ug/L	93
69) Naphthalene	14.11	128	1765	0.154	ug/L #	93

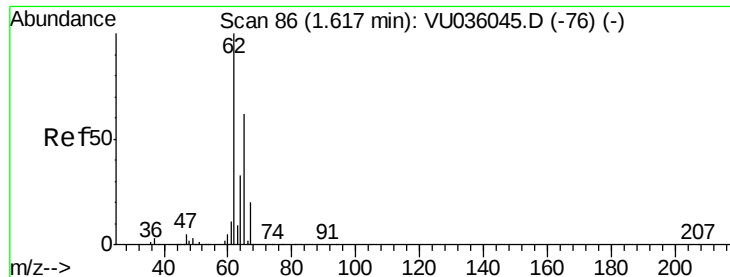
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.656 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

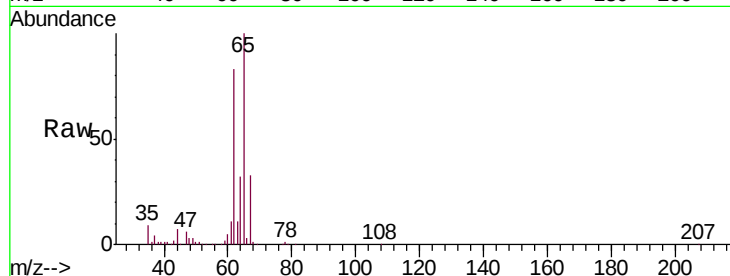
BFQW8

Tgt Ion: 62 Resp: 64076

Ion Ratio Lower Upper

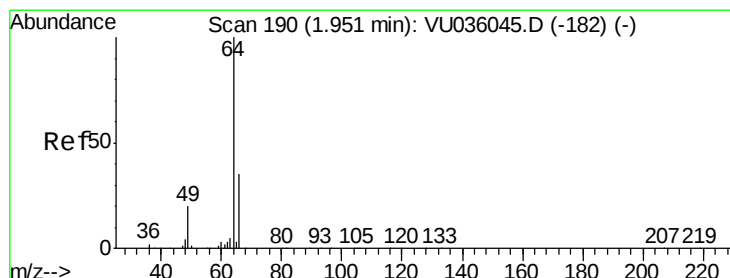
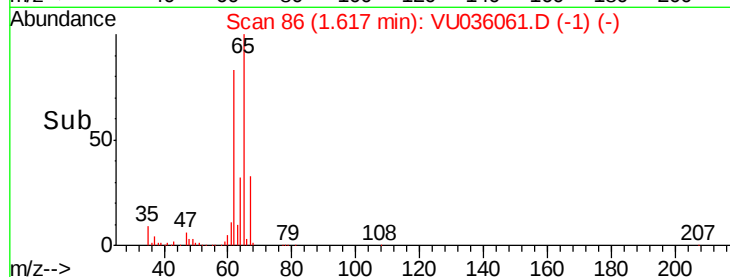
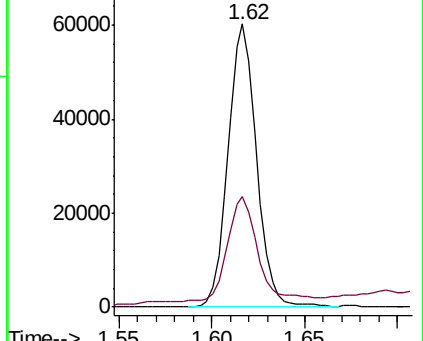
62 100

64 38.9 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VU036061.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU036061.D (-1) (-)



#8

Chloroethane

Concen: 2.902 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036061.D

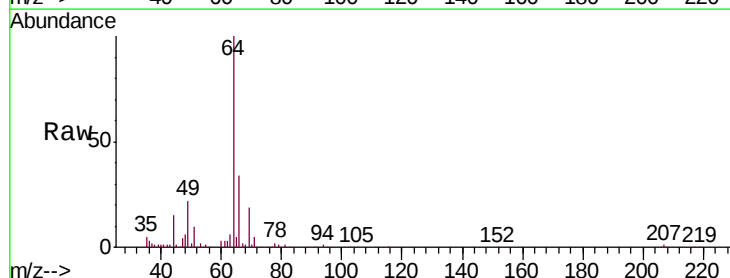
Acq: 09 Dec 2019 20:56

Tgt Ion: 64 Resp: 53256

Ion Ratio Lower Upper

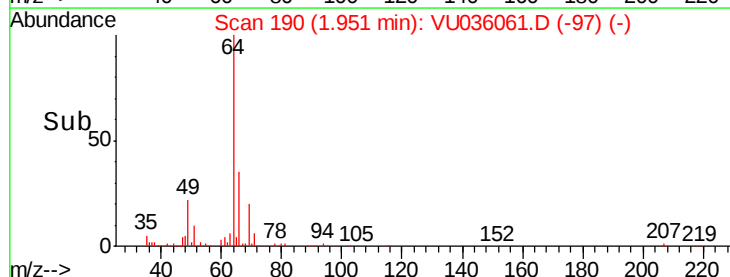
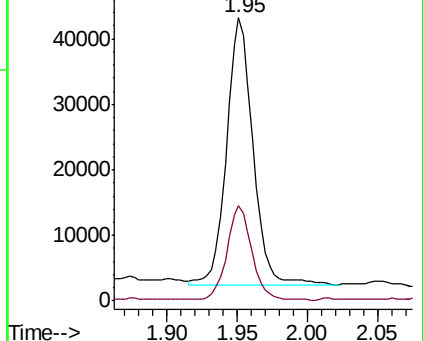
64 100

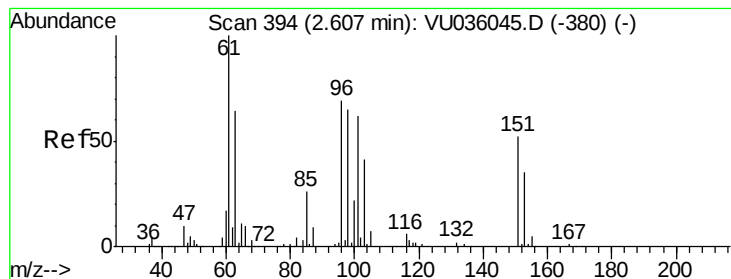
66 33.7 21.5 39.9



Abundance Ion 64.10 (63.80 to 64.80): VU036061.D (-97) (-)

Ion 66.05 (65.75 to 66.75): VU036061.D (-97) (-)





#12

1,1-Dichloroethene

Concen: 0.172 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

BFQW8

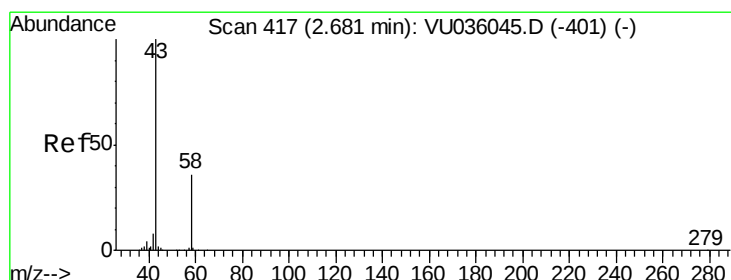
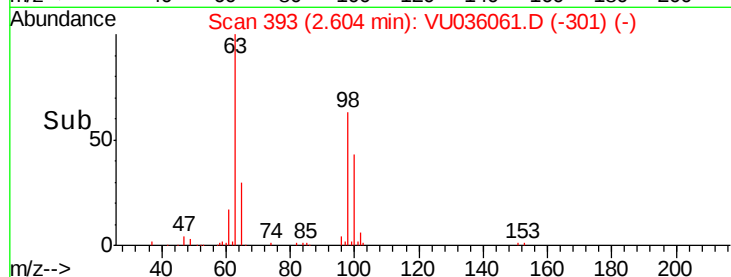
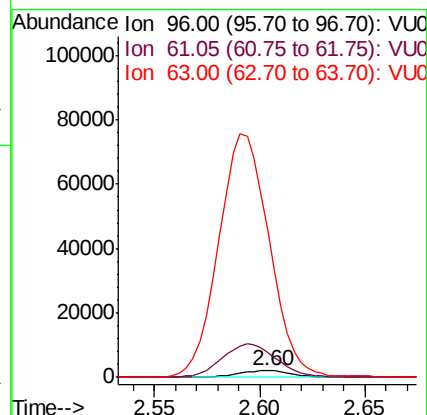
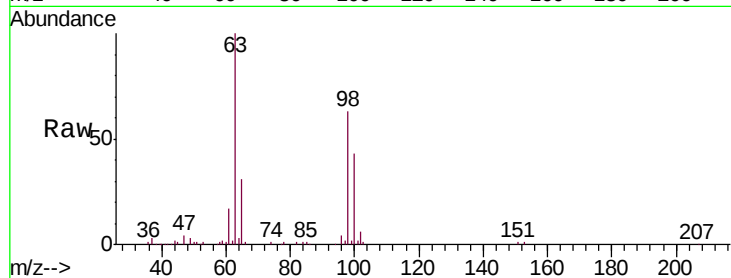
Tgt Ion: 96 Resp: 3610

Ion Ratio Lower Upper

96 100

61 385.2 104.3 193.7#

63 2298.1 65.6 121.8#



#13

Acetone

Concen: 61.152 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.01 min

Lab File: VU036061.D

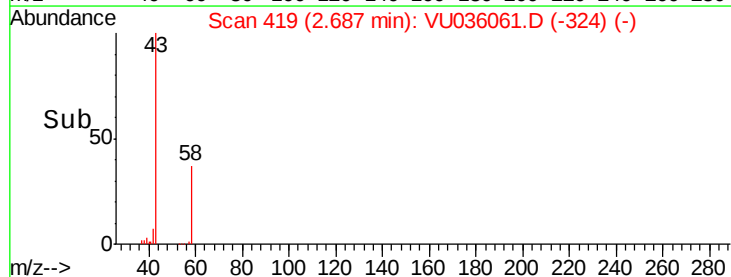
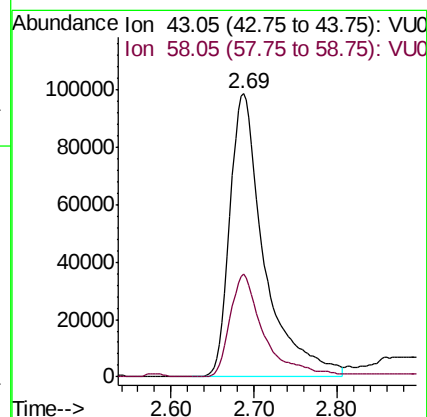
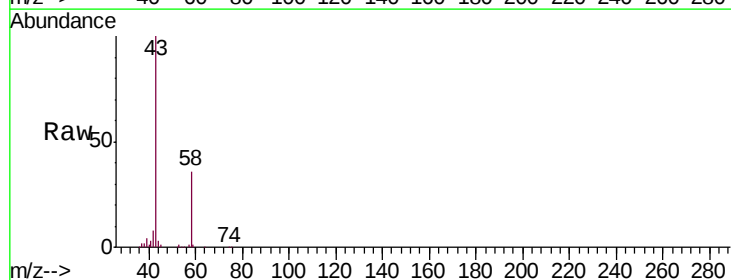
Acq: 09 Dec 2019 20:56

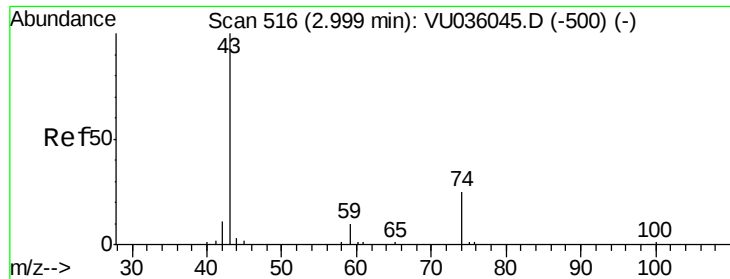
Tgt Ion: 43 Resp: 284025

Ion Ratio Lower Upper

43 100

58 35.9 0.0 74.2

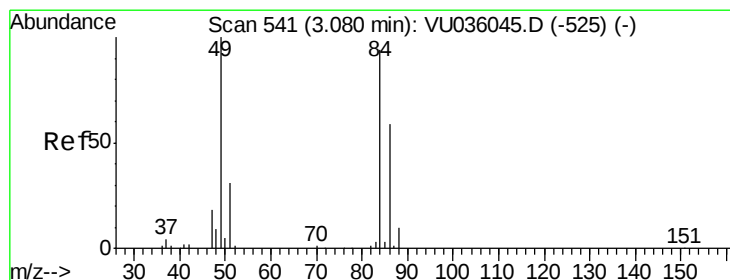
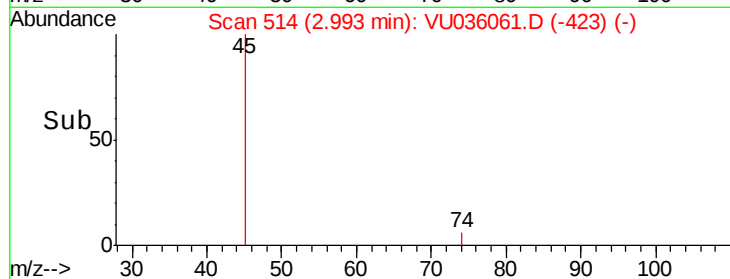
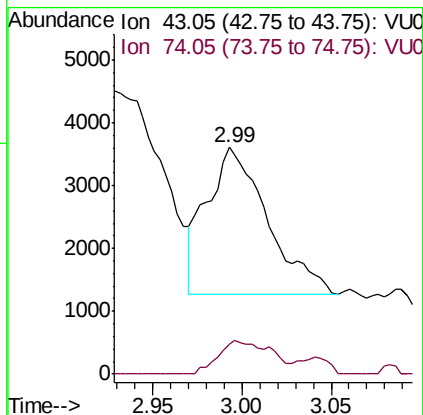
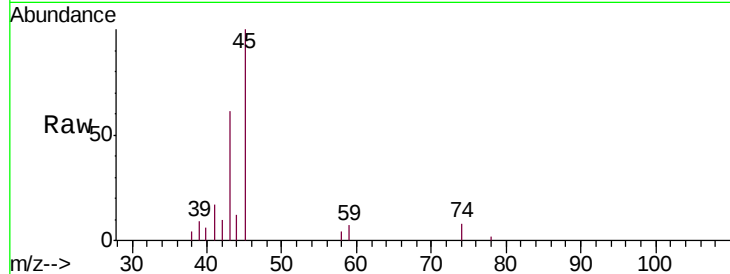




#15
Methyl Acetate
Concen: 0.808 ug/L
RT: 2.99 min Scan# 514
Delta R.T. -0.01 min
Lab File: VU036061.D
Acq: 09 Dec 2019 20:56

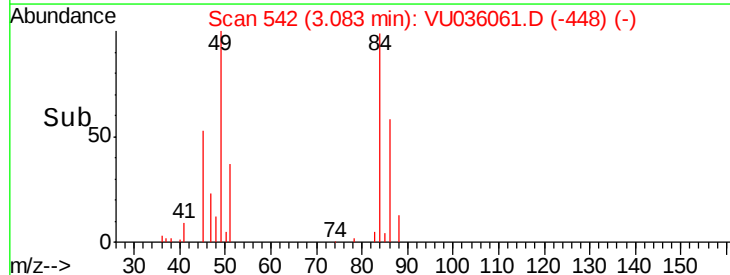
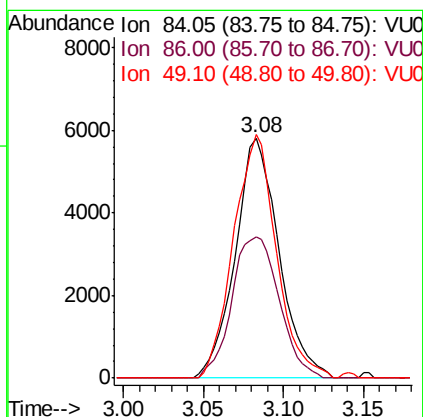
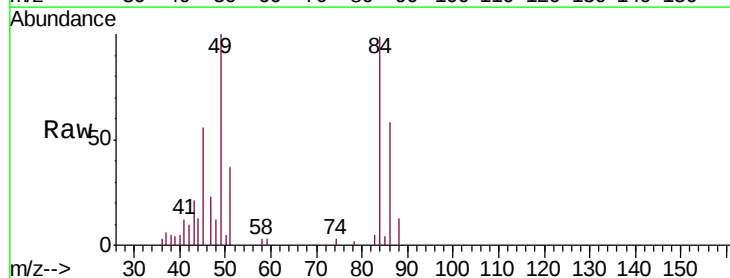
Instrument :
MSVOA_U
ClientSampleId :
BFQW8

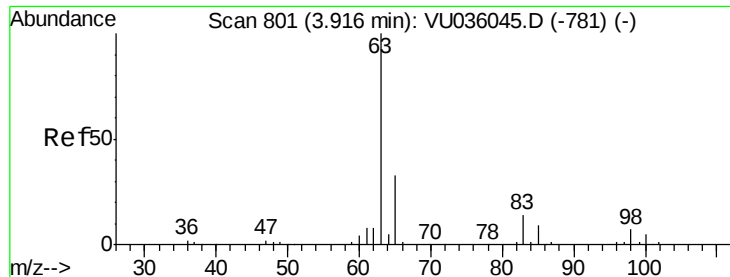
Tgt Ion: 43 Resp: 5541
Ion Ratio Lower Upper
43 100
74 20.1 21.0 31.4#



#16
Methylene chloride
Concen: 0.445 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036061.D
Acq: 09 Dec 2019 20:56

Tgt Ion: 84 Resp: 10835
Ion Ratio Lower Upper
84 100
86 58.8 47.5 88.3
49 101.5 76.9 142.9

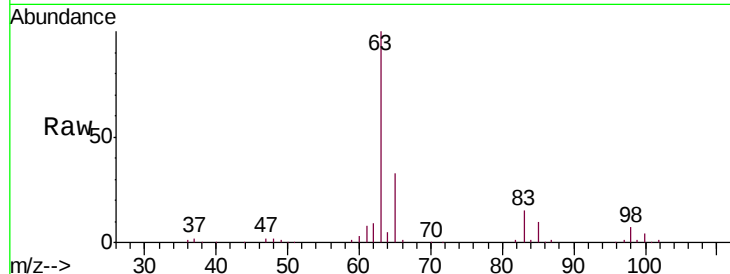




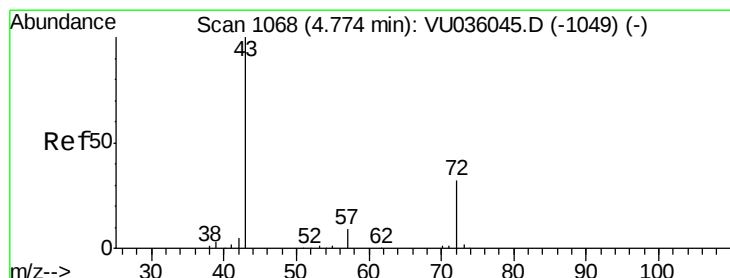
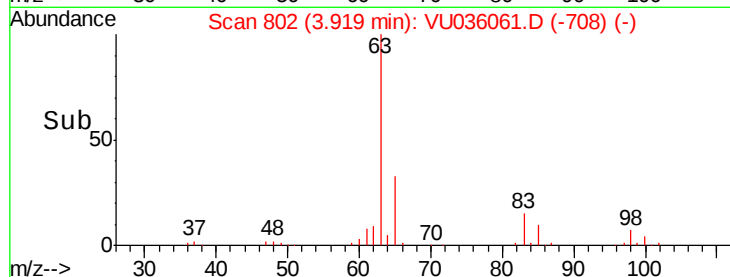
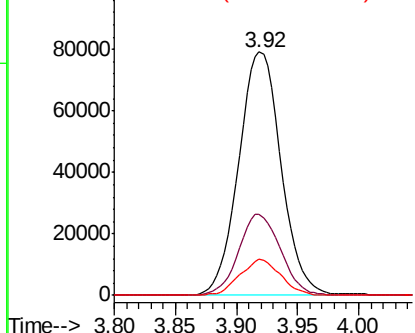
#19
 1,1-Dichloroethane
 Concen: 5.931 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW8

Tgt Ion: 63 Resp: 190425
 Ion Ratio Lower Upper
 63 100
 65 33.1 21.8 40.4
 83 14.7 10.1 18.9

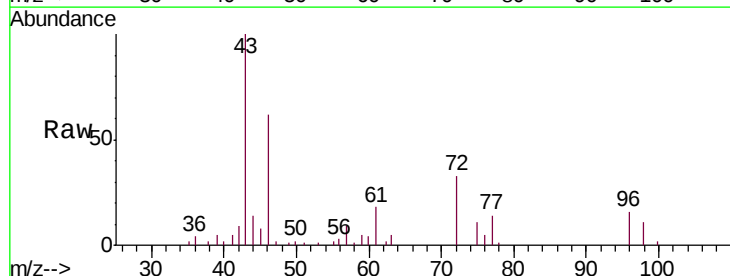


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

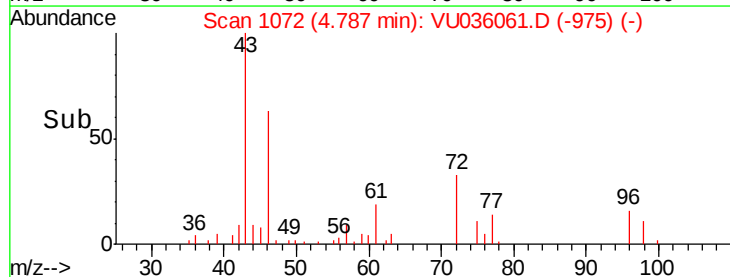
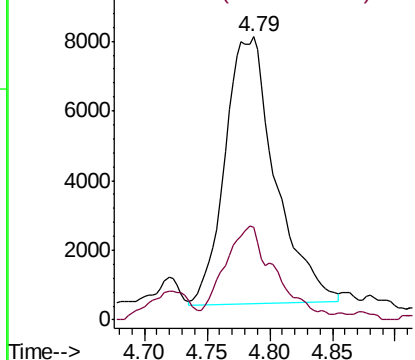


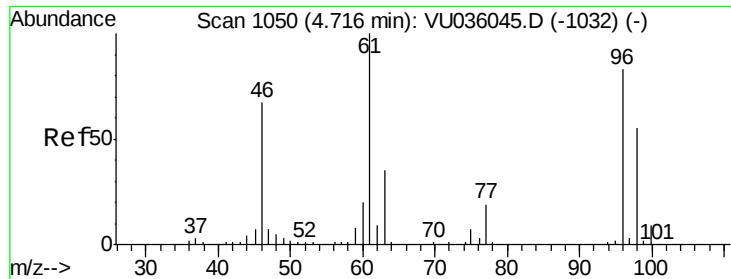
#21
 2-Butanone
 Concen: 4.604 ug/L
 RT: 4.79 min Scan# 1072
 Delta R.T. 0.01 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

Tgt Ion: 43 Resp: 21405
 Ion Ratio Lower Upper
 43 100
 72 35.9 15.0 45.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 10.940 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

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ClientSampleId :

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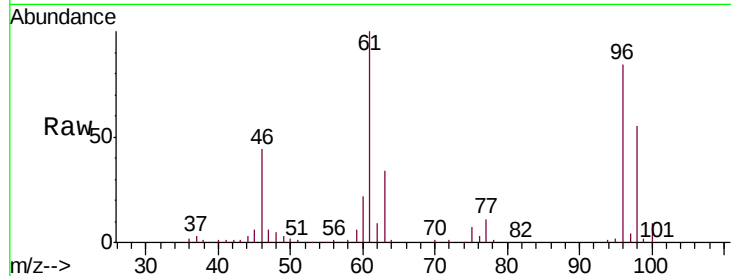
Tgt Ion: 96 Resp: 205411

Ion Ratio Lower Upper

96 100

61 118.7 83.0 154.2

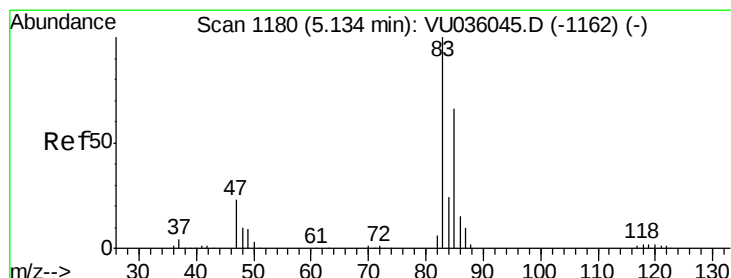
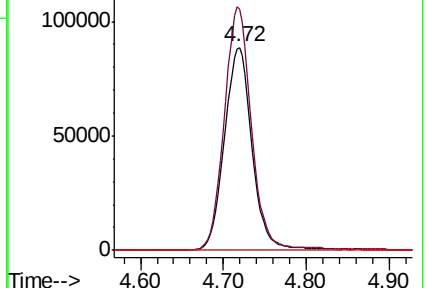
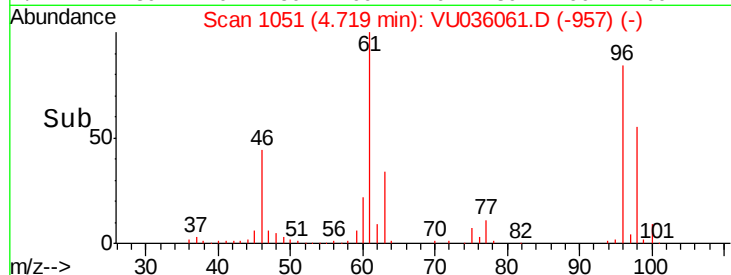
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036061.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036061.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036061.D (-957) (-)



#25

Chloroform

Concen: 1.089 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036061.D

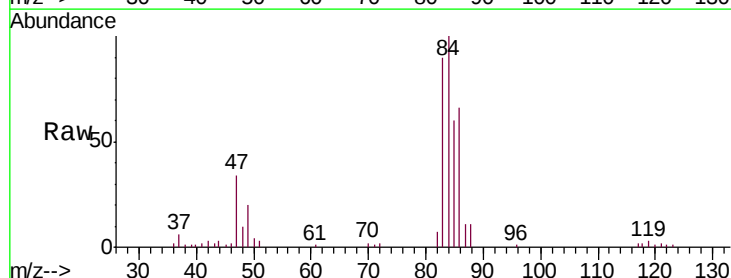
Acq: 09 Dec 2019 20:56

Tgt Ion: 83 Resp: 38964

Ion Ratio Lower Upper

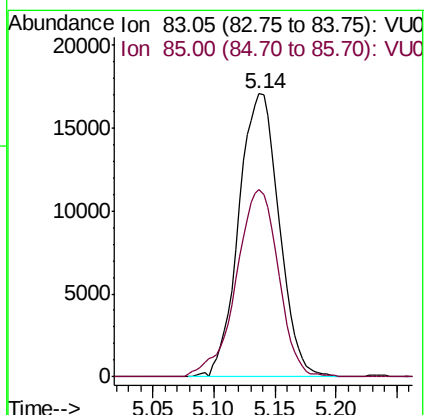
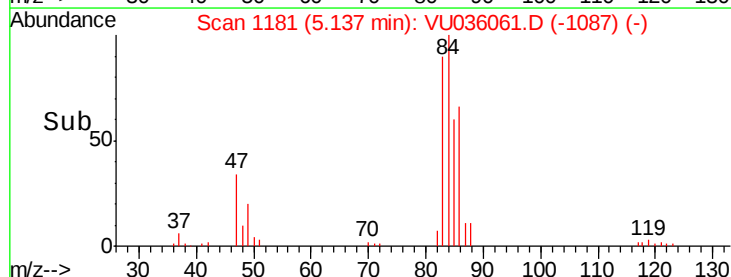
83 100

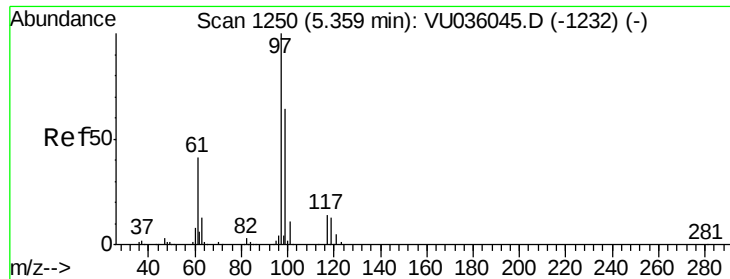
85 66.1 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU036061.D (-1087) (-)

Ion 85.00 (84.70 to 85.70): VU036061.D (-1087) (-)

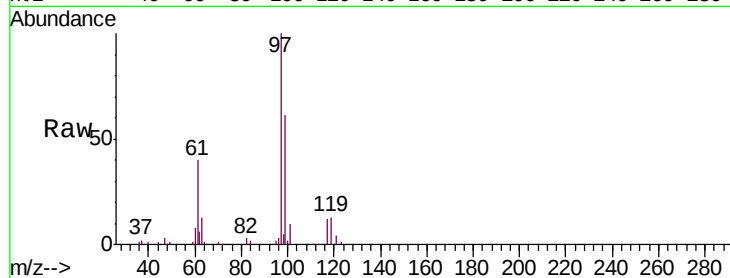




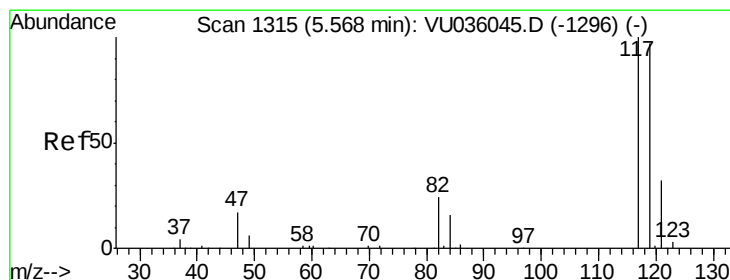
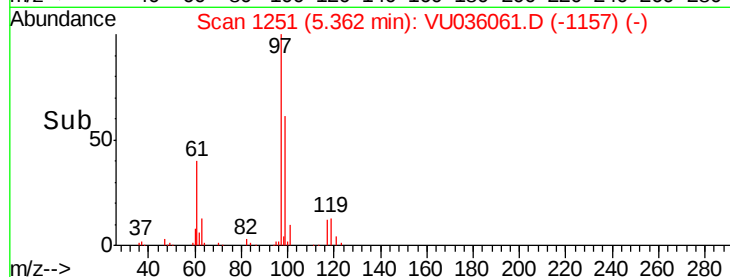
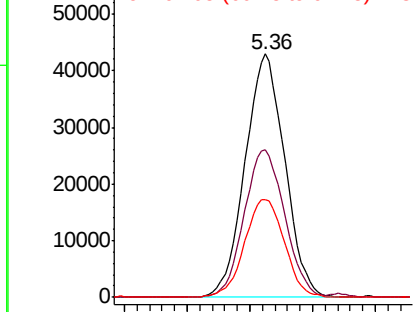
#29
 1,1,1-Trichloroethane
 Concen: 3.301 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036061.D
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Tgt Ion: 97 Resp: 94818
 Ion Ratio Lower Upper
 97 100
 99 61.7 52.2 78.2
 61 40.5 34.7 52.1

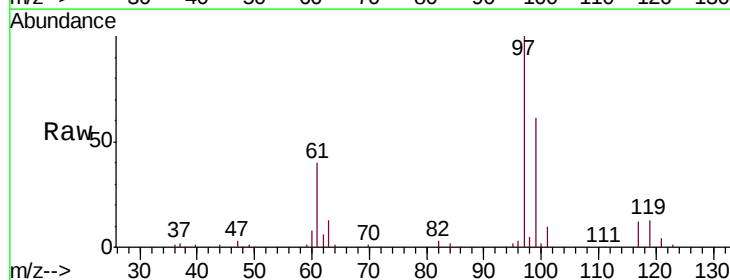


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

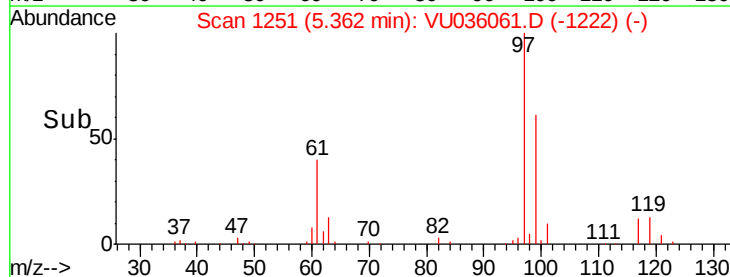
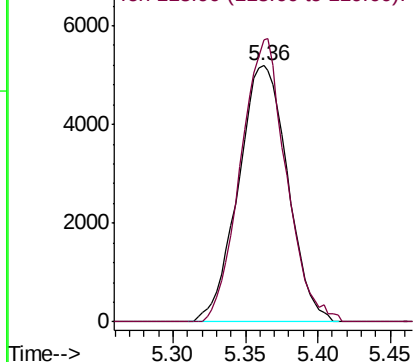


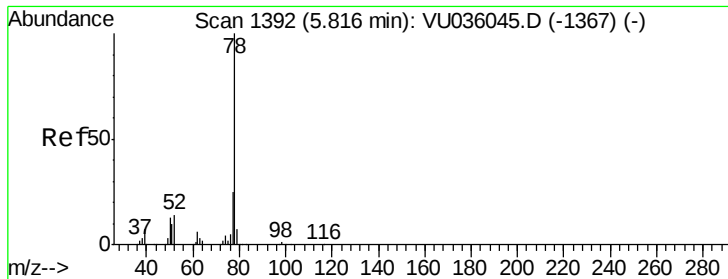
#31
 Carbon tetrachloride
 Concen: 0.473 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.21 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

Tgt Ion: 117 Resp: 12291
 Ion Ratio Lower Upper
 117 100
 119 101.9 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 1.241 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

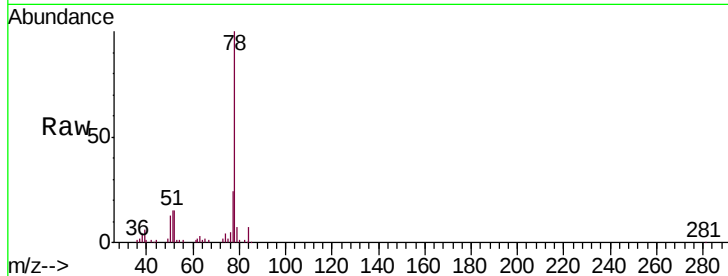
Instrument :

MSVOA_U

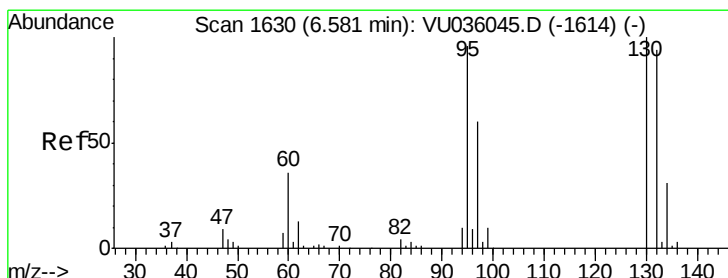
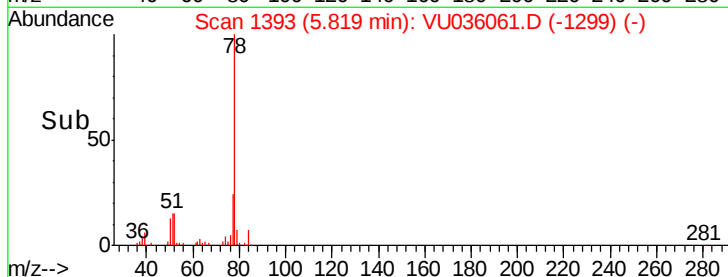
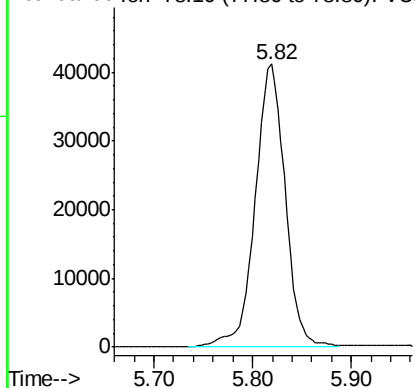
ClientSampleId :

BFQW8

Tgt Ion: 78 Resp: 86464



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.320 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Tgt Ion: 95 Resp: 5924

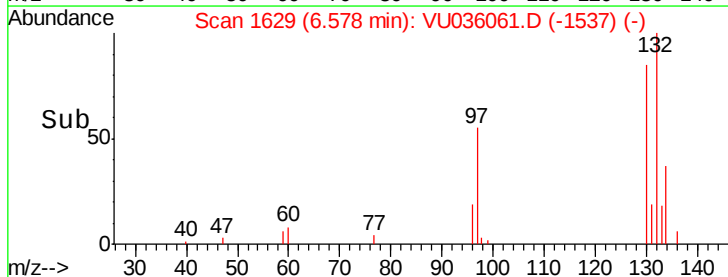
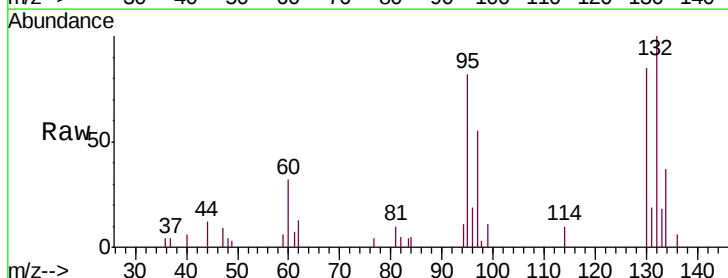
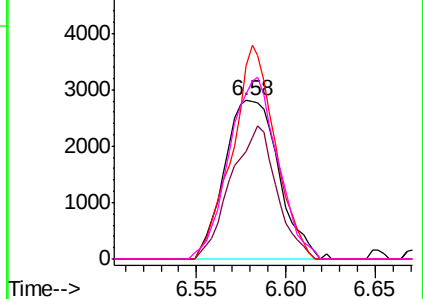
Ion	Ratio	Lower	Upper
95	100		
97	67.7	44.4	82.4
132	122.5	73.4	136.4
130	104.5	75.9	141.1

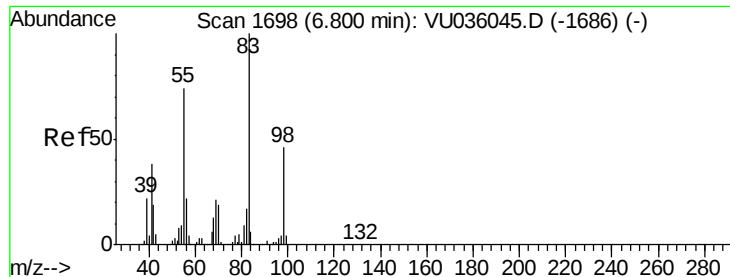
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 1.112 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

BFQW8

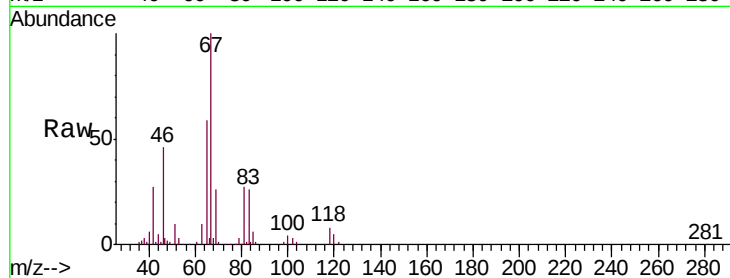
Tgt Ion: 83 Resp: 27592

Ion Ratio Lower Upper

83 100

55 0.2 62.1 93.1#

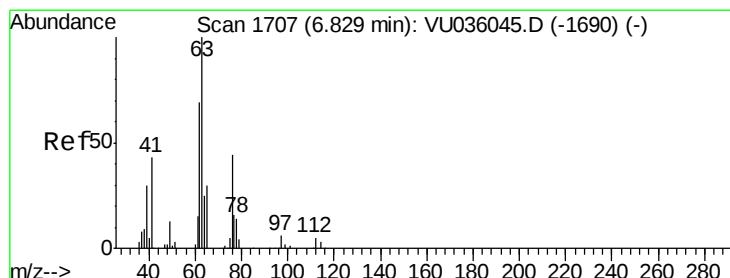
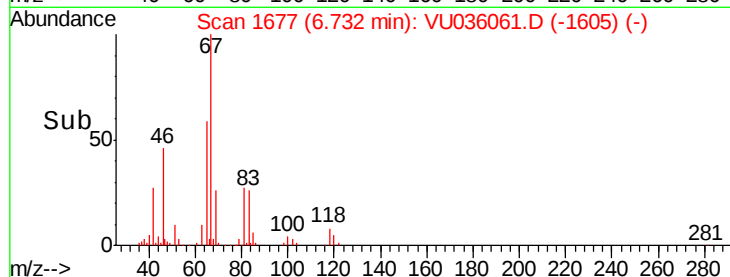
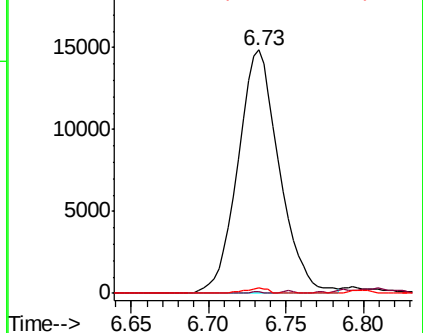
98 1.2 37.0 55.4#



Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



#37

1,2-Dichloropropane

Concen: 0.637 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.10 min

Lab File: VU036061.D

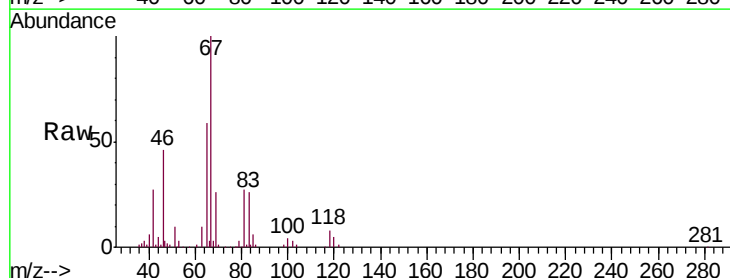
Acq: 09 Dec 2019 20:56

Tgt Ion: 63 Resp: 11126

Ion Ratio Lower Upper

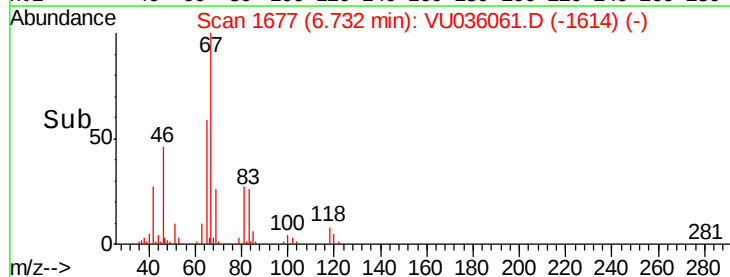
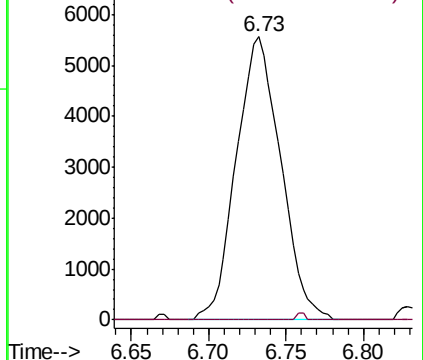
63 100

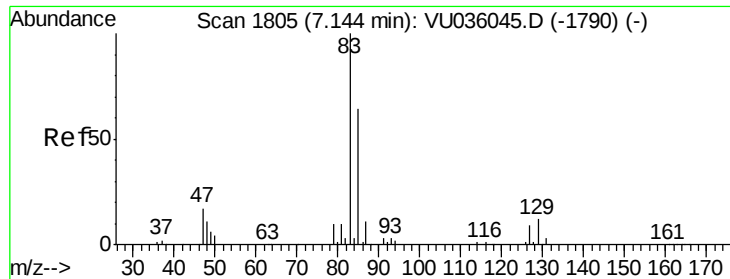
112 0.4 3.8 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

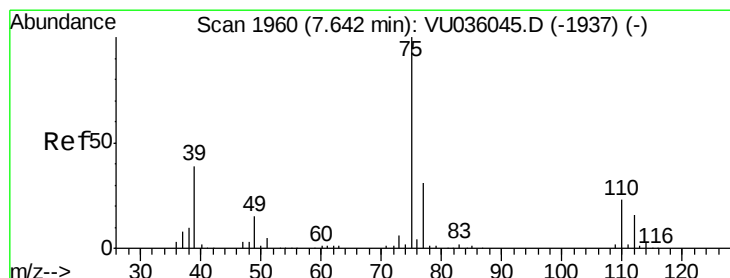
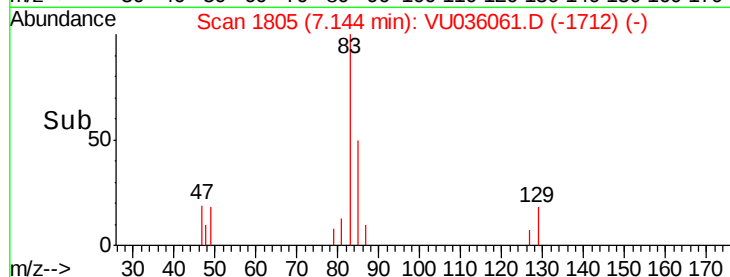
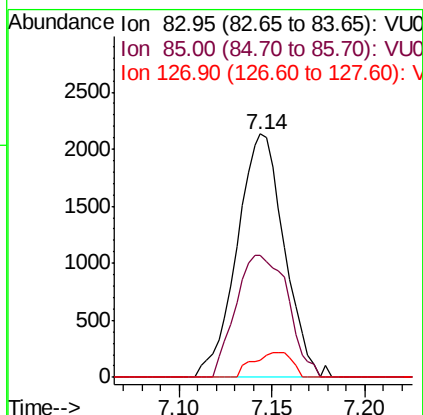
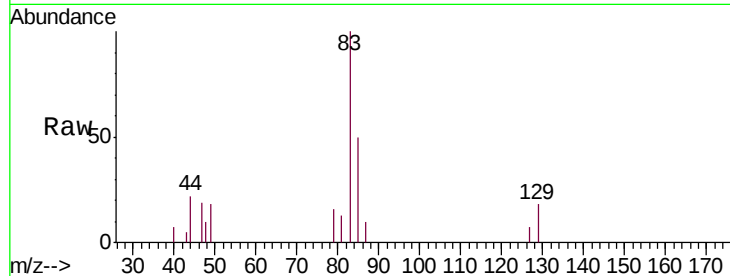




#38
 Bromodichloromethane
 Concen: 0.161 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

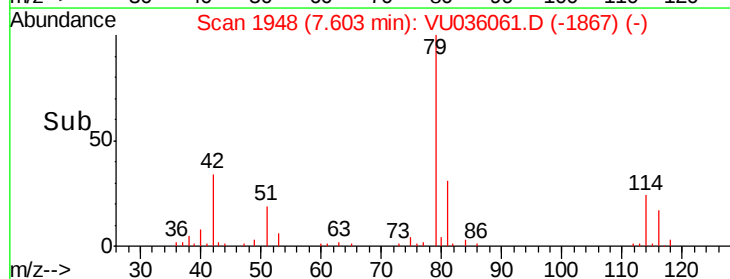
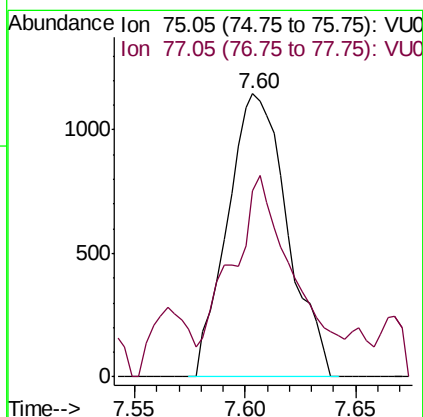
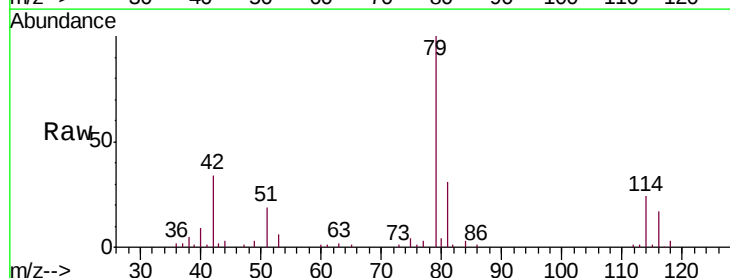
Instrument :
 MSVOA_U
 ClientSampled :
 BFQW8

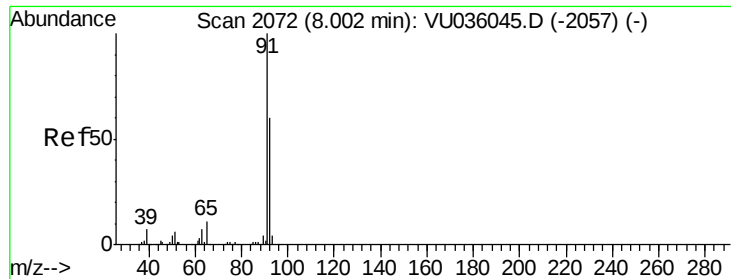
Tgt Ion: 83 Resp: 3780
 Ion Ratio Lower Upper
 83 100
 85 50.0 45.2 84.0
 127 6.8 7.4 11.2#



#39
 cis-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.60 min Scan# 1948
 Delta R.T. -0.04 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

Tgt Ion: 75 Resp: 2159
 Ion Ratio Lower Upper
 75 100
 77 65.7 21.7 40.3#





#42

Toluene

Concen: 0.480 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

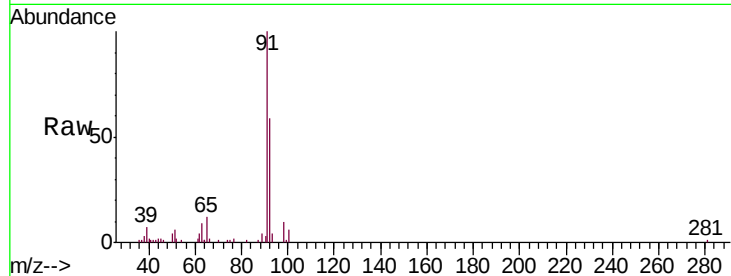
BFQW8

Tgt Ion: 91 Resp: 35844

Ion Ratio Lower Upper

91 100

92 59.3 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU036045.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036045.D (-2057) (-)

8.00

20000

15000

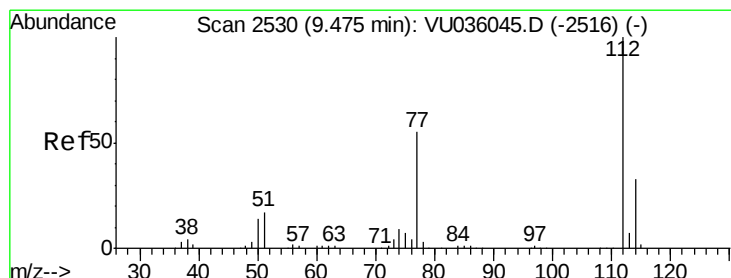
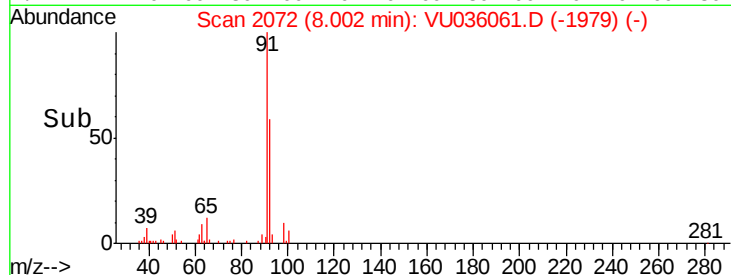
10000

5000

0

7.95 8.00 8.05 8.10

Time-->



#51

Chlorobenzene

Concen: 1.095 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

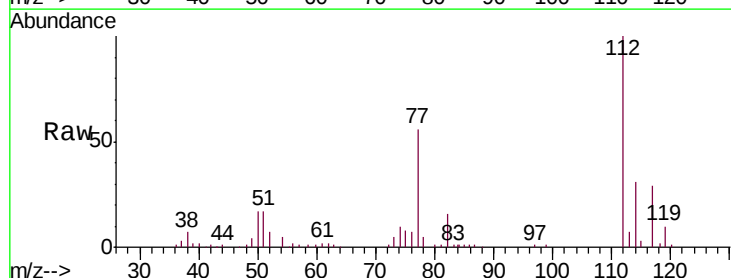
Tgt Ion: 112 Resp: 57023

Ion Ratio Lower Upper

112 100

114 30.7 22.3 41.5

77 55.7 43.8 65.8



Abundance Ion 112.10 (111.80 to 112.80): VU036045.D (-2516) (-)

Ion 114.05 (113.75 to 114.75): VU036045.D (-2516) (-)

Ion 77.10 (76.80 to 77.80): VU036045.D (-2516) (-)

9.48

40000

30000

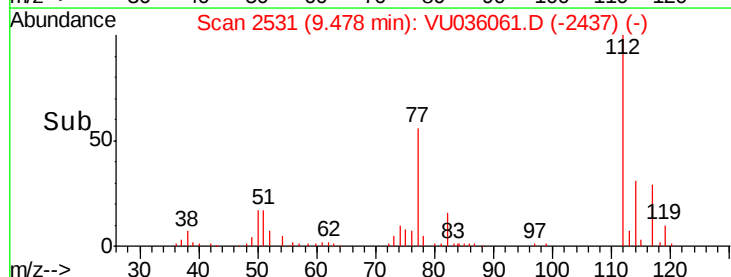
20000

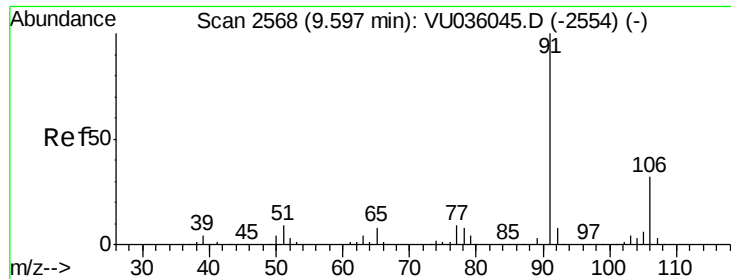
10000

0

9.40 9.45 9.50 9.55

Time-->





#52

Ethylbenzene

Concen: 0.110 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

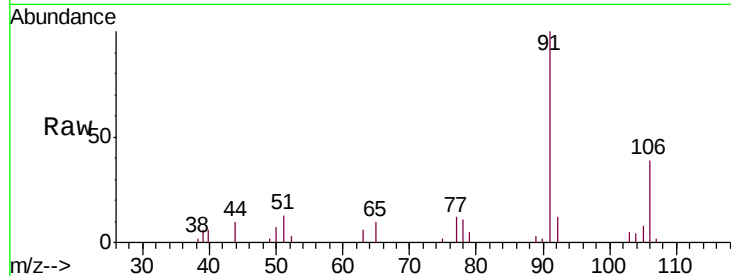
BFQW8

Tgt Ion: 91 Resp: 8637

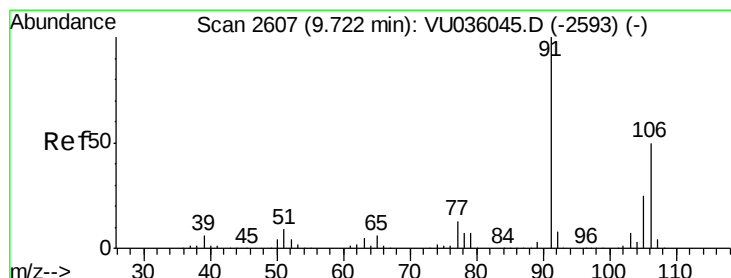
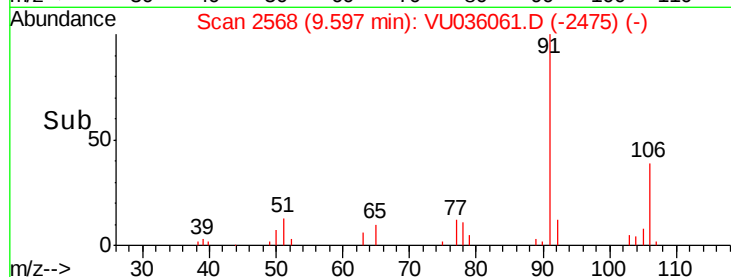
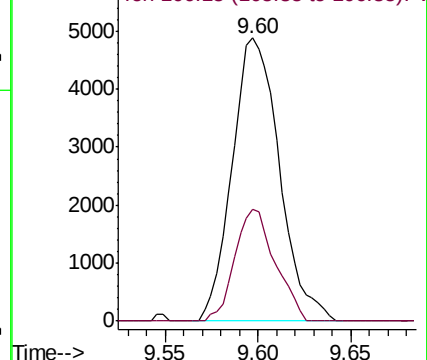
Ion Ratio Lower Upper

91 100

106 39.3 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036061.D (-2514) (-)



#53

m,p-Xylene

Concen: 0.268 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036061.D

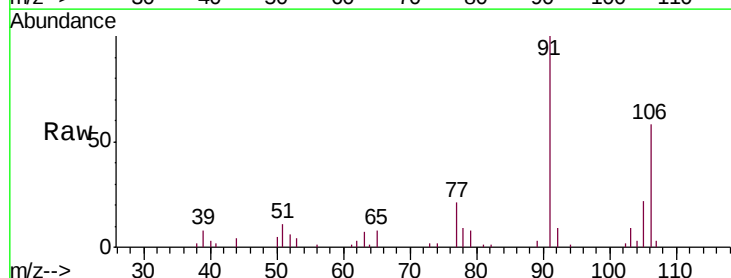
Acq: 09 Dec 2019 20:56

Tgt Ion: 106 Resp: 8366

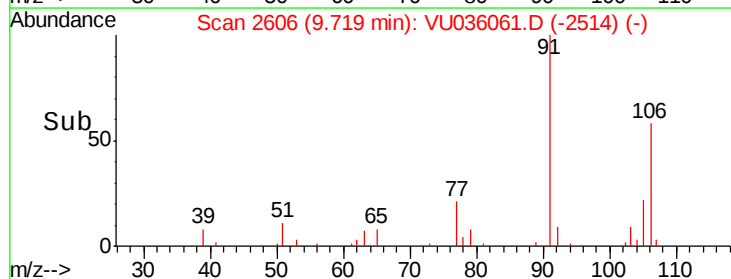
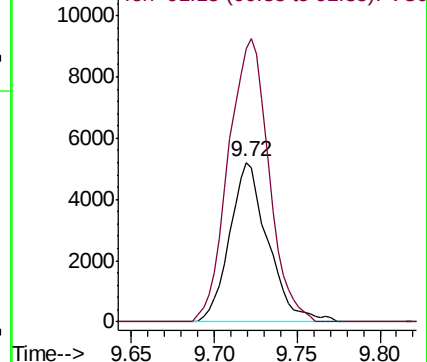
Ion Ratio Lower Upper

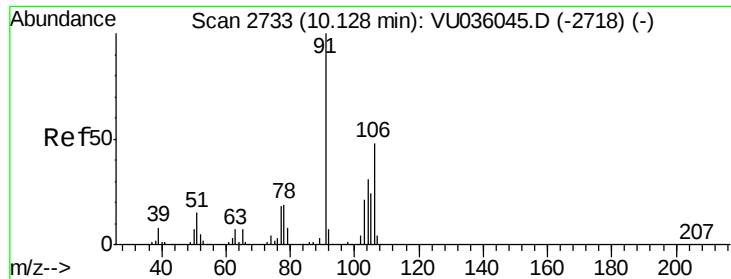
106 100

91 171.5 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): VU036061.D (-2514) (-)





#54

o-Xylene

Concen: 0.203 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

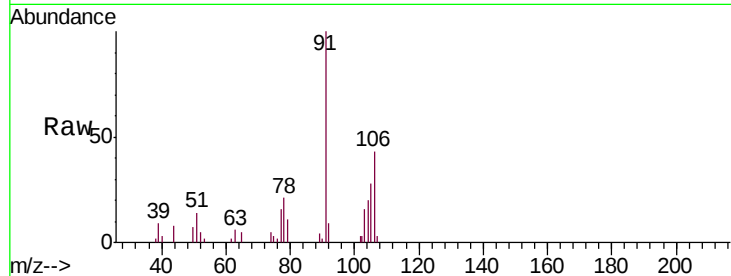
BFQW8

Tgt Ion:106 Resp: 5953

Ion Ratio Lower Upper

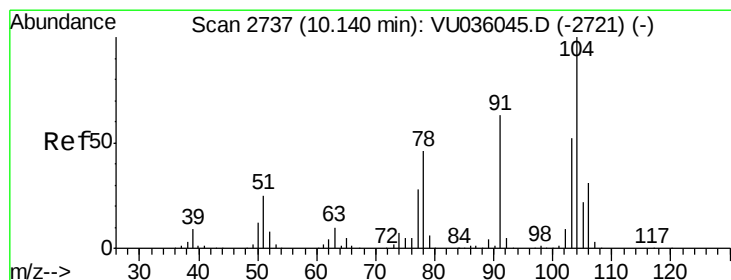
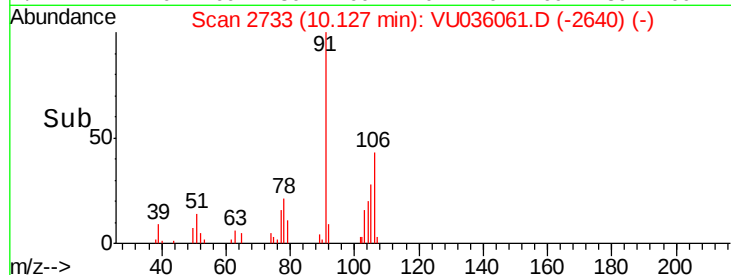
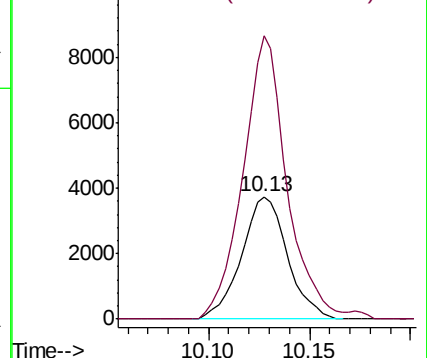
106 100

91 230.7 140.6 261.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.165 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036061.D

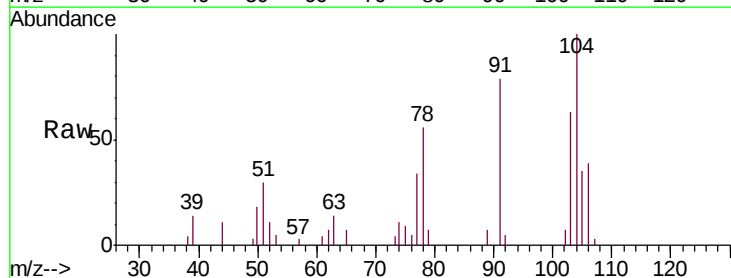
Acq: 09 Dec 2019 20:56

Tgt Ion:104 Resp: 8291

Ion Ratio Lower Upper

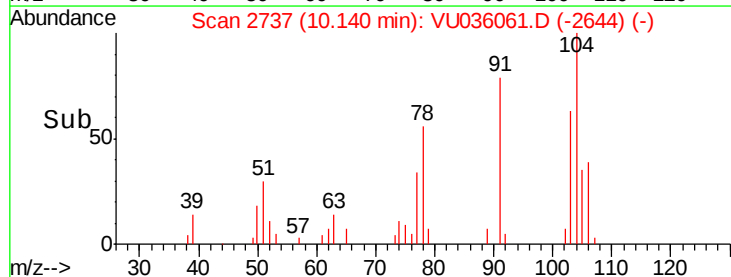
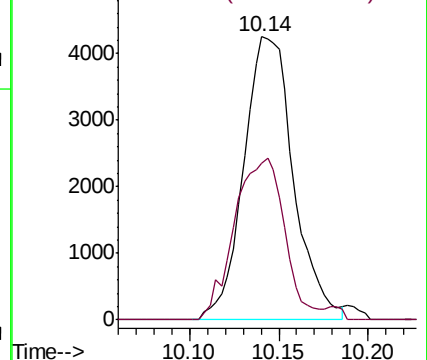
104 100

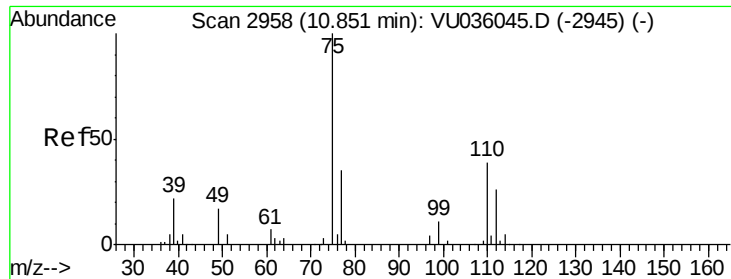
78 55.5 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#59

1,2,3-Trichloropropane

Concen: 1.042 ug/L

RT: 11.83 min Scan# 3264

Delta R.T. 0.98 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

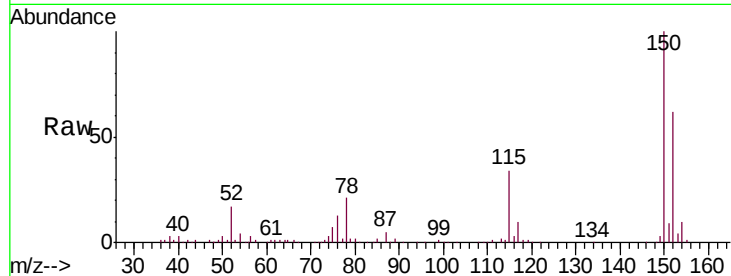
BFQW8

Tgt Ion: 75 Resp: 13018

Ion Ratio Lower Upper

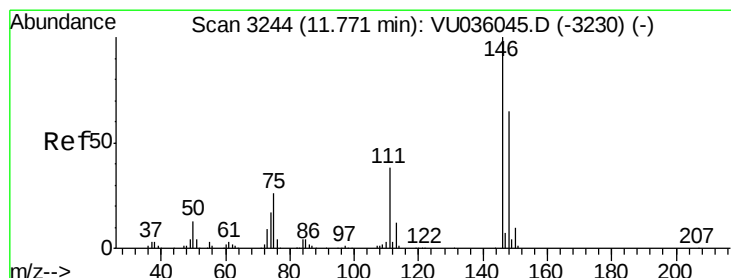
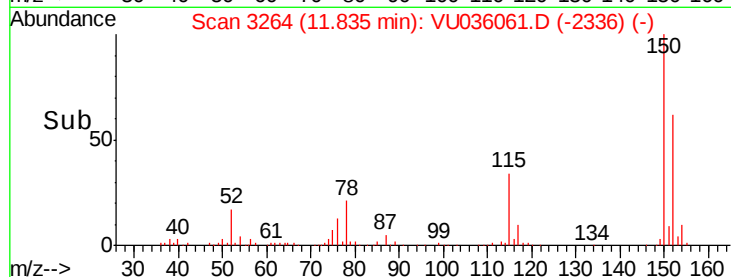
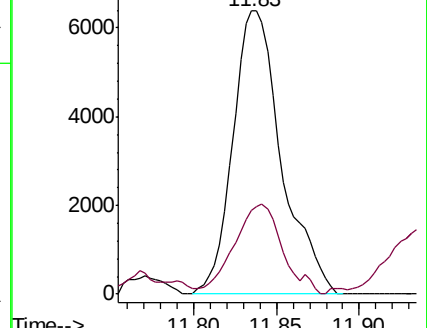
75 100

77 31.5 26.7 40.1



Abundance Ion 75.00 (74.70 to 75.70): VU036045.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU036045.D (-2945) (-)



#62

1,3-Dichlorobenzene

Concen: 0.072 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

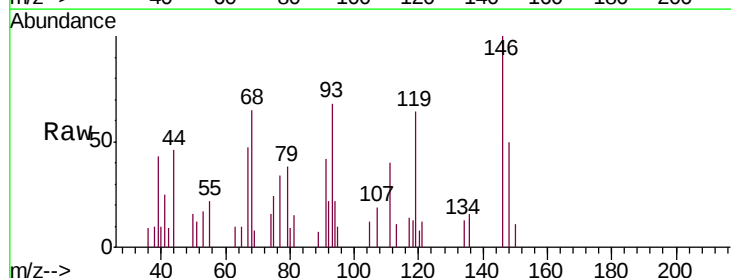
Tgt Ion: 146 Resp: 2368

Ion Ratio Lower Upper

146 100

111 40.4 26.0 48.2

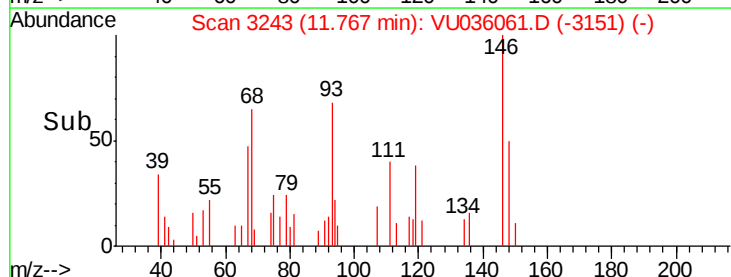
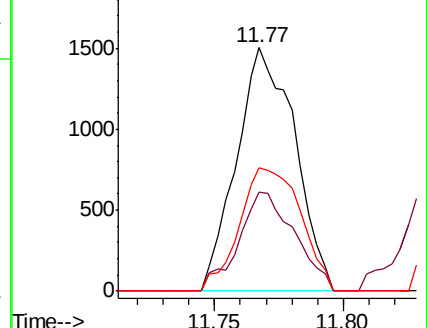
148 50.5 43.7 81.1

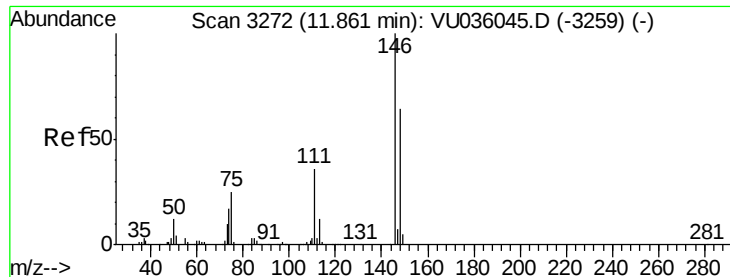


Abundance Ion 145.95 (145.65 to 146.65): VU036045.D (-3230) (-)

Ion 111.00 (110.70 to 111.70): VU036045.D (-3230) (-)

Ion 148.00 (147.70 to 148.70): VU036045.D (-3230) (-)

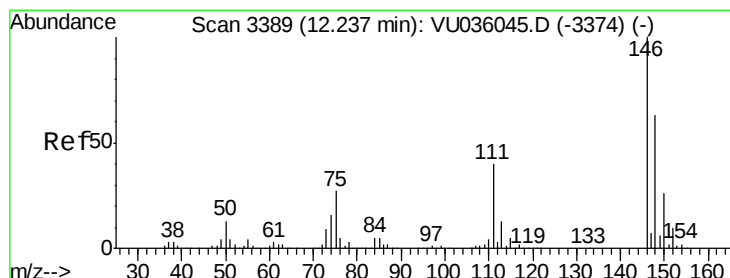
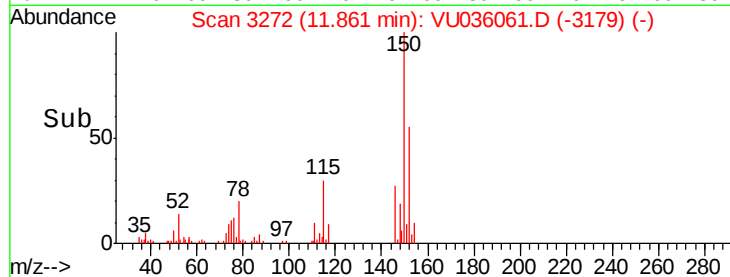
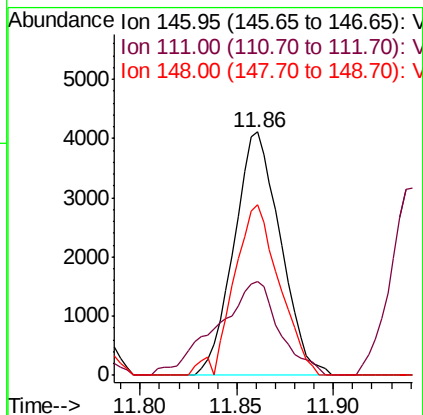
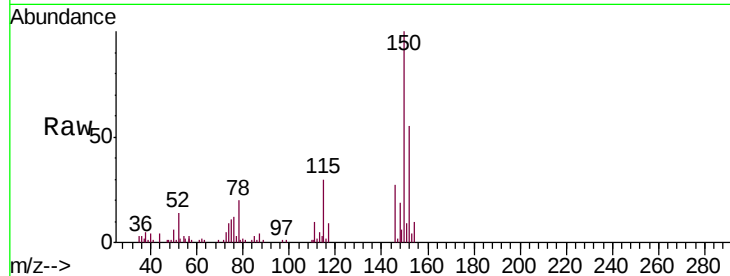




#63
 1,4-Dichlorobenzene
 Concen: 0.211 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. -0.00 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

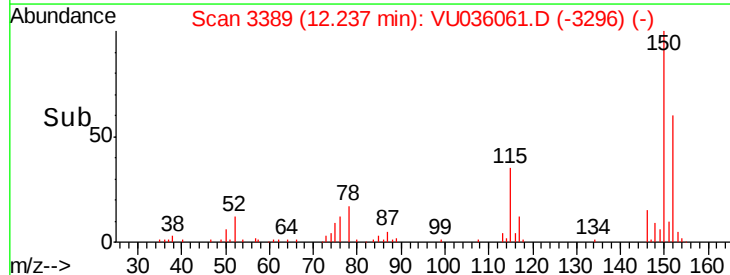
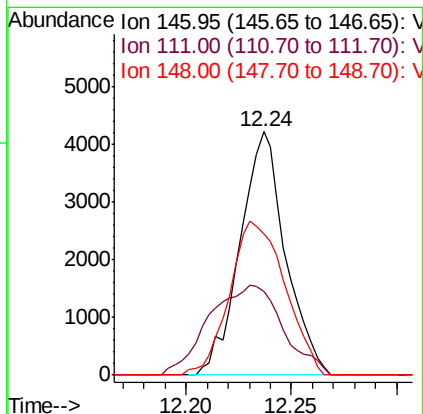
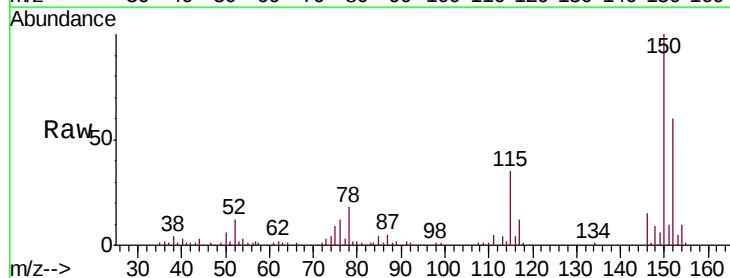
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW8

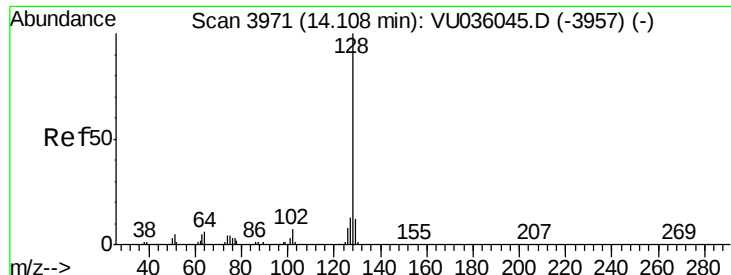
Tgt Ion:146 Resp: 6875
 Ion Ratio Lower Upper
 146 100
 111 38.3 26.2 48.6
 148 70.3 44.9 83.5



#65
 1,2-Dichlorobenzene
 Concen: 0.192 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU036061.D
 Acq: 09 Dec 2019 20:56

Tgt Ion:146 Resp: 6294
 Ion Ratio Lower Upper
 146 100
 111 34.4 31.3 46.9
 148 58.0 50.5 75.7





#69

Naphthalene

Concen: 0.154 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU036061.D

Acq: 09 Dec 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

BFQW8

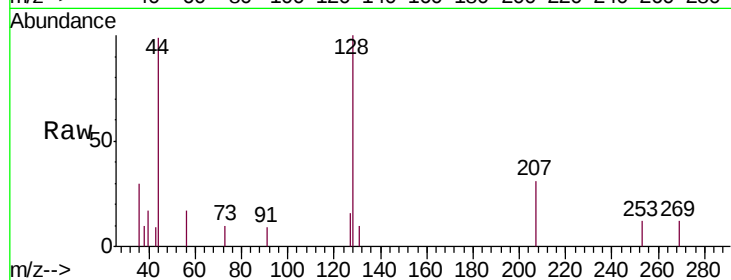
Tgt Ion:128 Resp: 1765

Ion Ratio Lower Upper

128 100

129 7.8 9.2 13.8#

127 15.8 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

