

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\  
 Data File : VN058341.D  
 Acq On : 24 Sep 2019 11:59  
 Operator : JC/SP  
 Sample : I.BLK  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

Quant Time: Sep 25 01:53:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Sep 25 01:36:25 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 91604    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 533377   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 456668   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.01   | 65    | 244023   | 30.13    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.43% |
| 60) 4-Bromofluorobenzene  | 12.41  | 95    | 216719   | 27.43    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 91.43%  |
| 63) Toluene-d8            | 10.08  | 98    | 664014   | 30.47    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.57% |

## Target Compounds

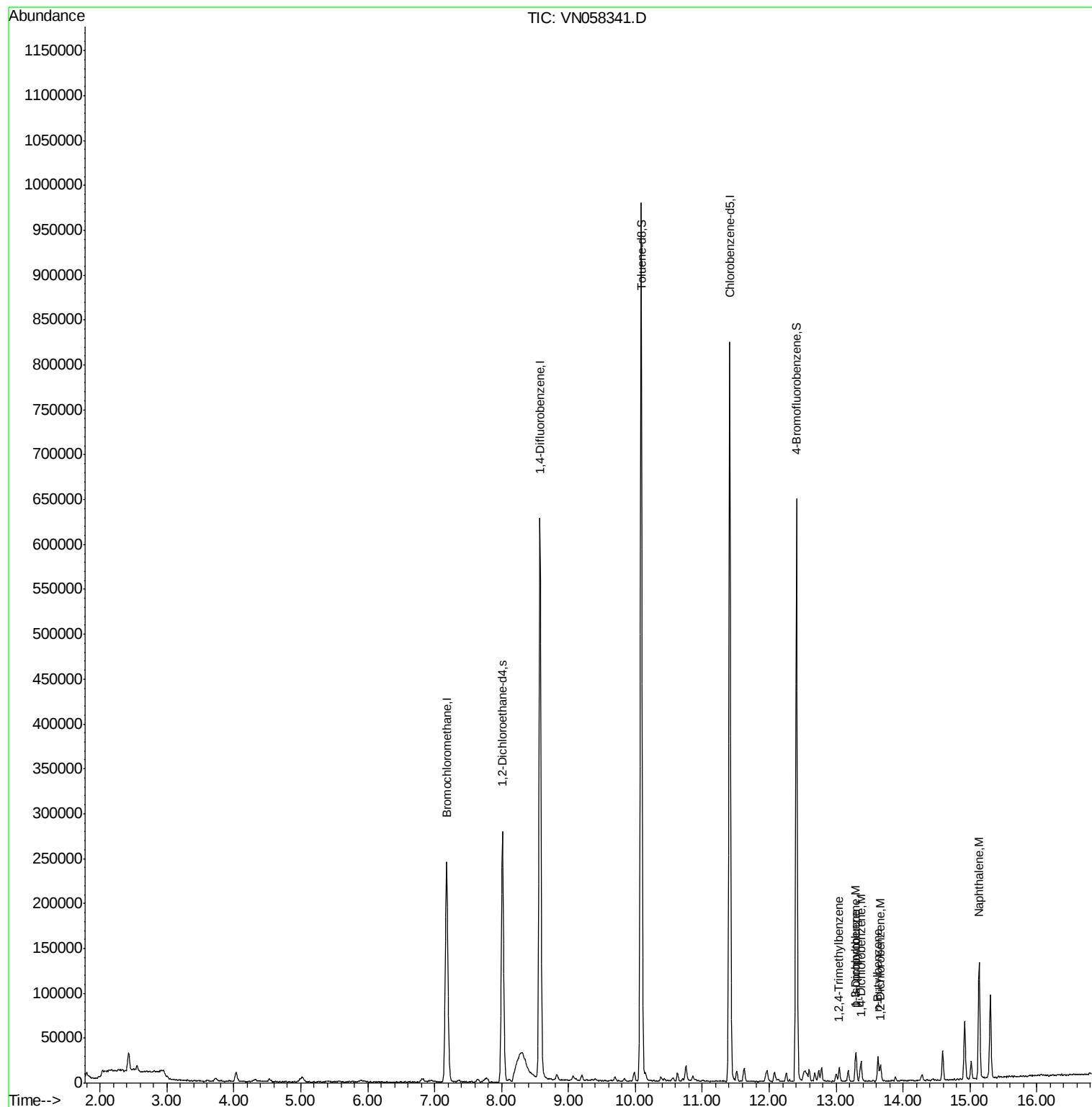
|                            |       |     |        |            | Ovalue |
|----------------------------|-------|-----|--------|------------|--------|
| 80) 1,2,4-Trimethylbenzene | 13.05 | 105 | 7437   | 0.328 ug/l | 94     |
| 82) p-Isopropyltoluene     | 13.30 | 119 | 8895   | 0.383 ug/l | 98     |
| 83) 1,3-Dichlorobenzene    | 13.29 | 146 | 7831   | 0.664 ug/l | 99     |
| 84) 1,4-Dichlorobenzene    | 13.37 | 146 | 8704   | 0.742 ug/l | 97     |
| 85) n-Butylbenzene         | 13.63 | 91  | 16740  | 0.776 ug/l | 97     |
| 87) 1,2-Dichlorobenzene    | 13.66 | 146 | 7356   | 0.639 ug/l | 98     |
| 91) Naphthalene            | 15.14 | 128 | 101893 | 4.933 ug/l | 98     |

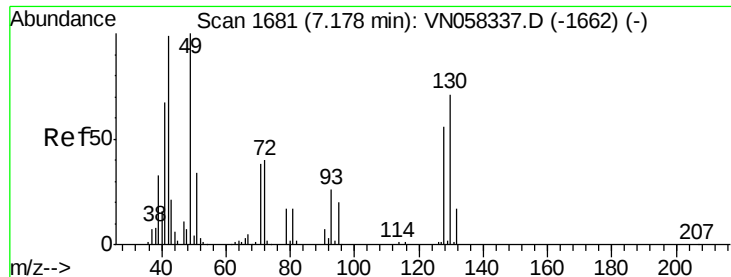
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : I.BLK  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
I.BLK

Quant Time: Sep 25 01:53:28 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Sep 25 01:36:25 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

Instrument :

MSVOA\_N

ClientSampled :

I.BLK

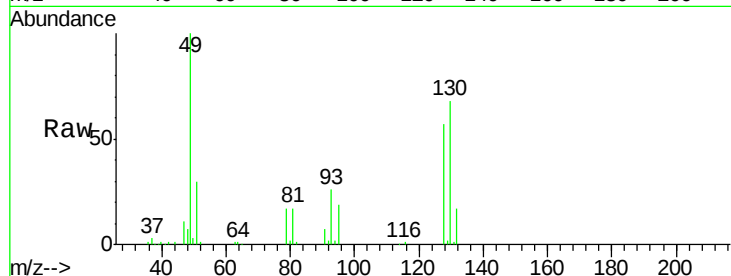
Tot Ion:128 Resp: 91604

Ion Ratio Lower Upper

128 100

49 179.1 0.0 458.5

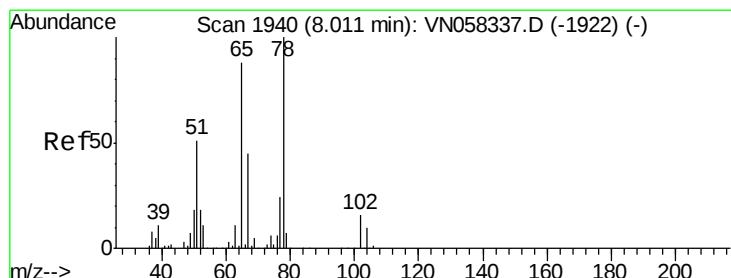
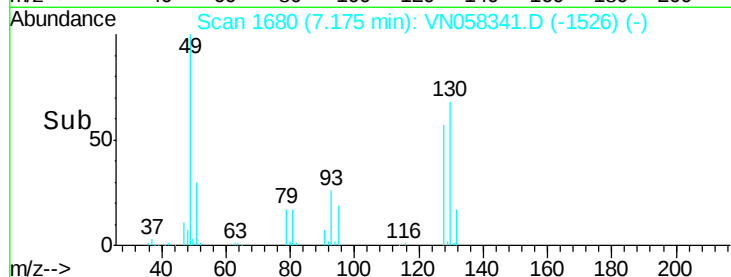
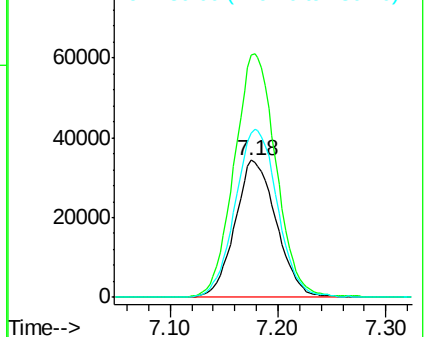
130 125.5 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#27

1,2-Dichloroethane-d4

Concen: 30.135 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058341.D

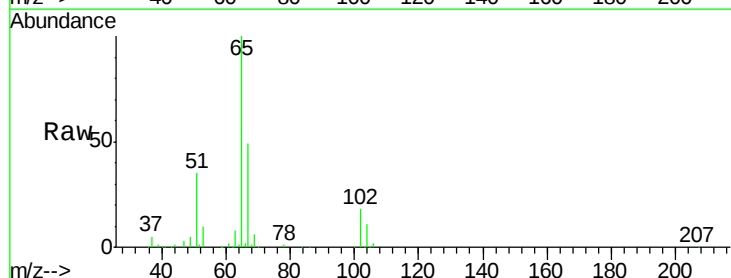
Acq: 24 Sep 2019 11:59

Tgt Ion: 65 Resp: 244023

Ion Ratio Lower Upper

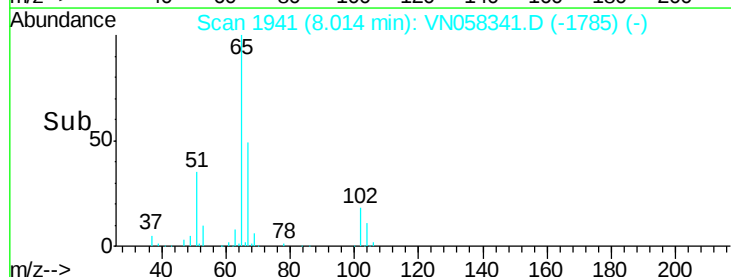
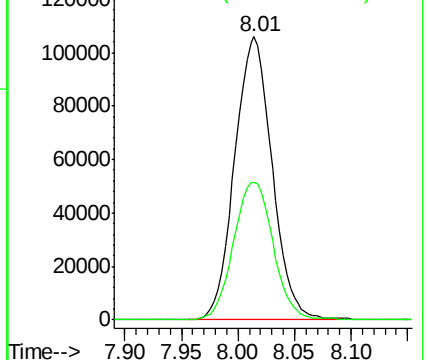
65 100

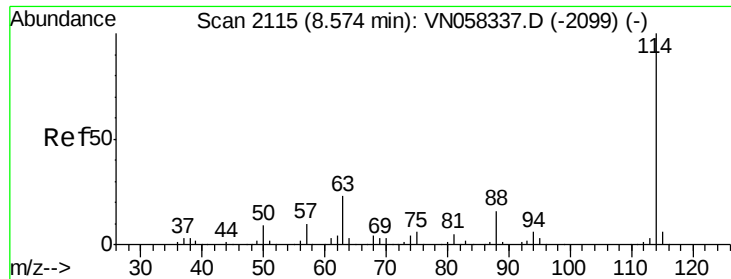
67 51.6 40.4 60.6



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

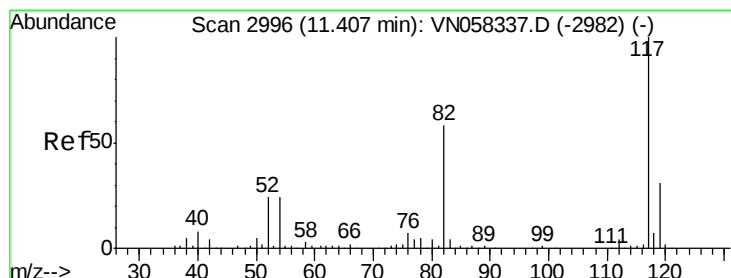
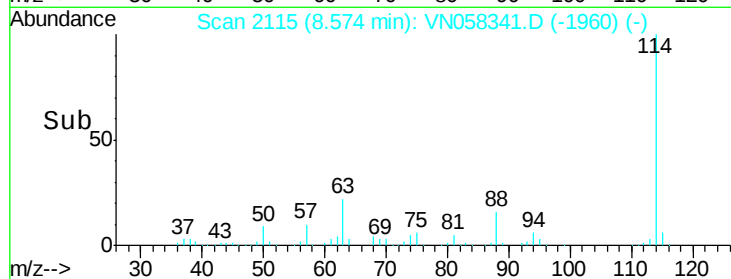
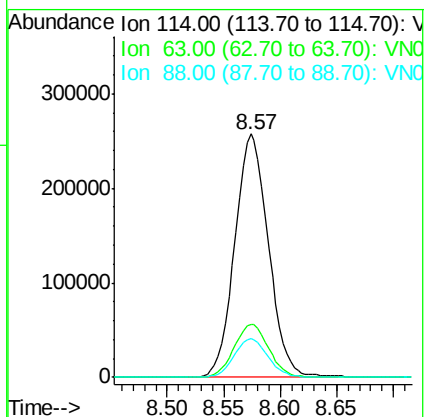
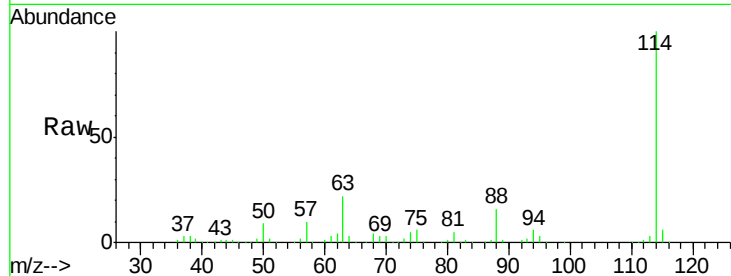




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN058341.D  
 Acq: 24 Sep 2019 11:59

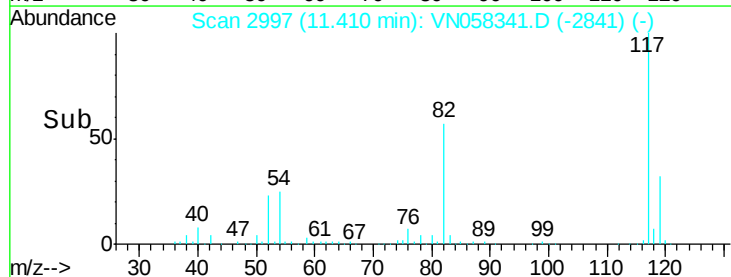
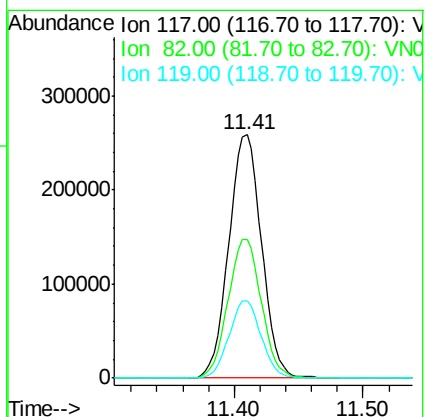
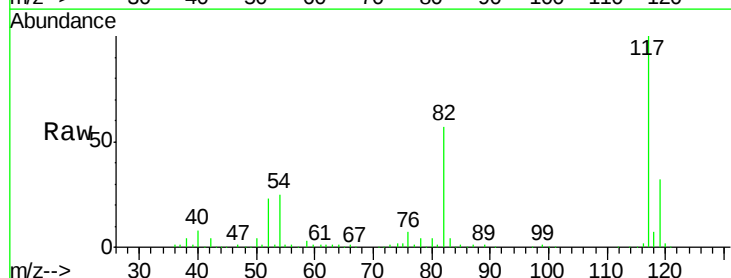
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

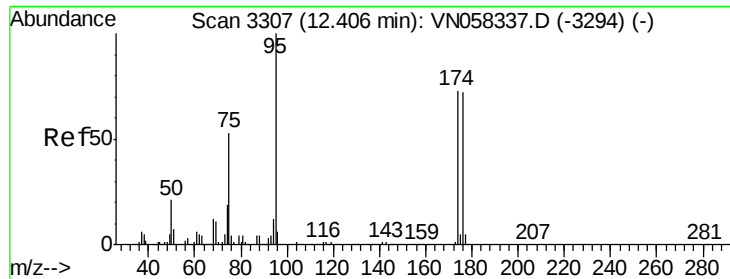
Tot Ion:114 Resp: 533377  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 17.8 26.8  
 88 16.1 12.7 19.1



#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 11.41 min Scan# 2997  
 Delta R.T. 0.00 min  
 Lab File: VN058341.D  
 Acq: 24 Sep 2019 11:59

Tgt Ion:117 Resp: 456668  
 Ion Ratio Lower Upper  
 117 100  
 82 57.8 46.4 69.6  
 119 31.2 25.1 37.7





#60

4-Bromofluorobenzene

Concen: 27.427 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

Instrument :

MSVOA\_N

ClientSampleId :

I.BLK

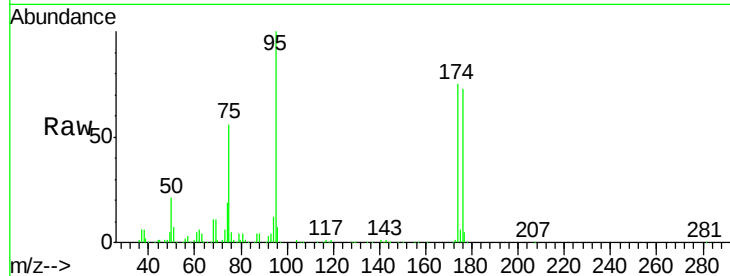
Tot Ion: 95 Resp: 216719

Ion Ratio Lower Upper

95 100

174 75.6 59.0 88.6

176 71.7 58.2 87.2

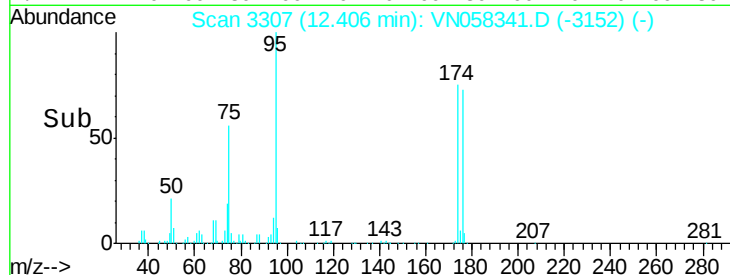


Abundance Ion 95.00 (94.70 to 95.70): VN058337.D (-3294) (-)

Ion 174.00 (173.70 to 174.70): VN058337.D (-3294) (-)

Ion 176.00 (175.70 to 176.70): VN058337.D (-3294) (-)

Time-->

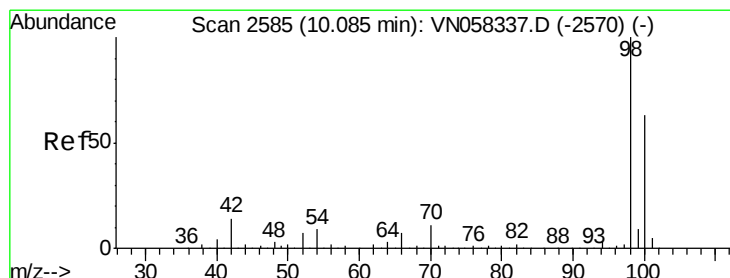


Abundance Ion 95.00 (94.70 to 95.70): VN058341.D (-3152) (-)

Ion 174.00 (173.70 to 174.70): VN058341.D (-3152) (-)

Ion 176.00 (175.70 to 176.70): VN058341.D (-3152) (-)

Time-->



#63

Toluene-d8

Concen: 30.468 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058341.D

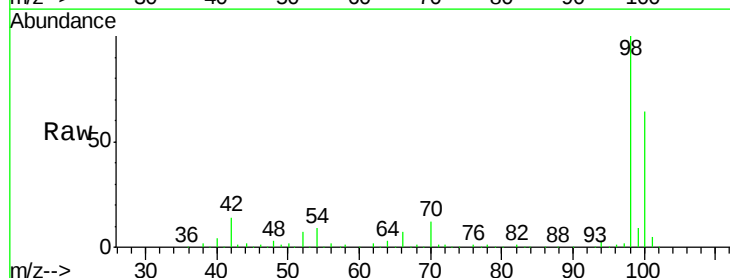
Acq: 24 Sep 2019 11:59

Tgt Ion: 98 Resp: 664014

Ion Ratio Lower Upper

98 100

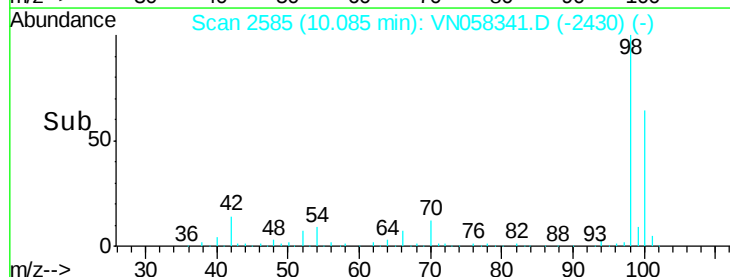
100 64.0 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN058337.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN058337.D (-2570) (-)

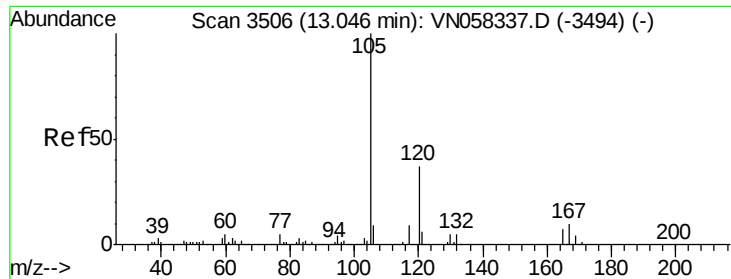
Time-->



Abundance Ion 98.00 (97.70 to 98.70): VN058341.D (-2430) (-)

Ion 100.00 (99.70 to 100.70): VN058341.D (-2430) (-)

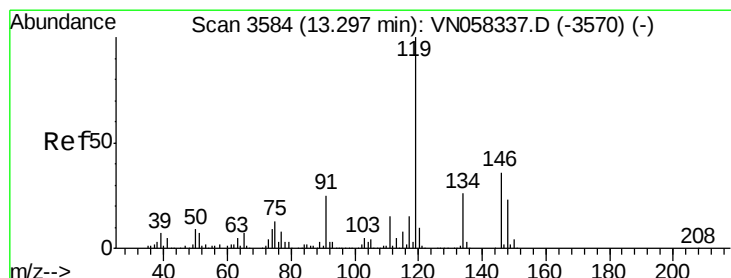
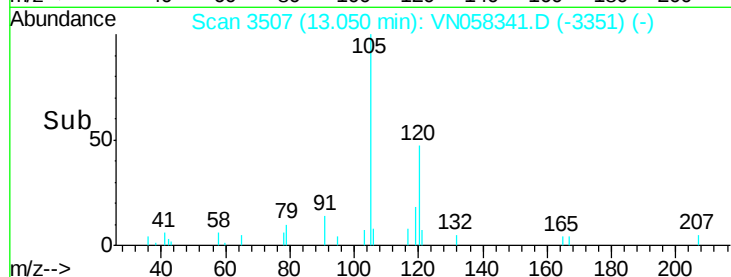
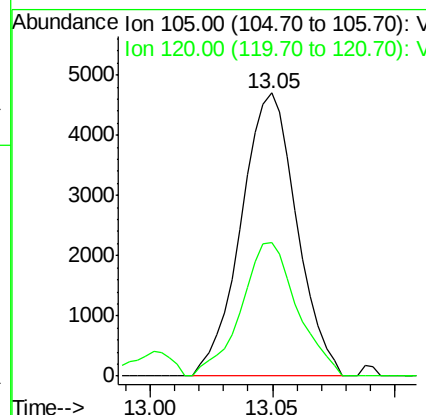
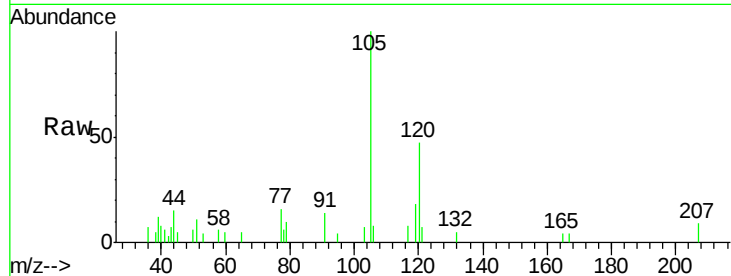
Time-->



#80  
 1,2,4-Trimethylbenzene  
 Concen: 0.328 ug/l  
 RT: 13.05 min Scan# 3507  
 Delta R.T. 0.00 min  
 Lab File: VN058341.D  
 Acq: 24 Sep 2019 11:59

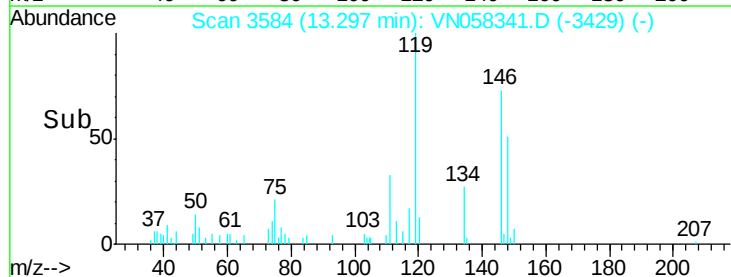
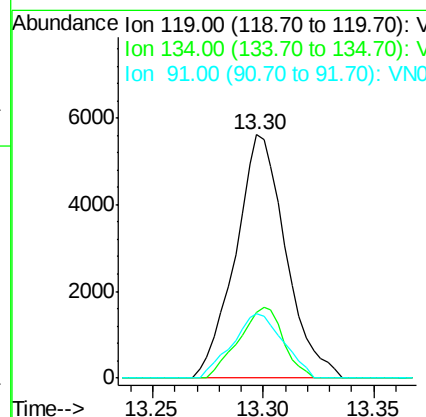
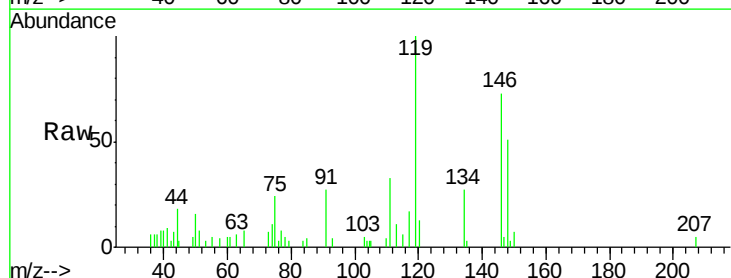
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 I.BLK

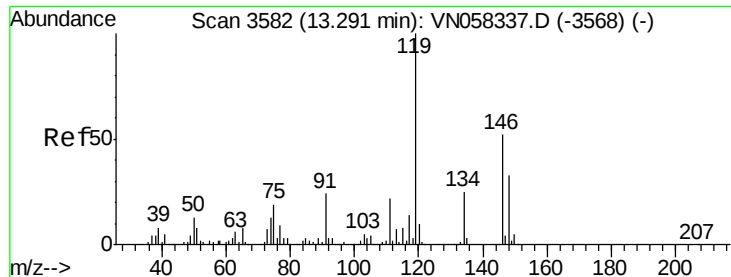
Tot Ion:105 Resp: 7437  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 0.0 86.6



#82  
 p-Isopropyltoluene  
 Concen: 0.383 ug/l  
 RT: 13.30 min Scan# 3584  
 Delta R.T. -0.00 min  
 Lab File: VN058341.D  
 Acq: 24 Sep 2019 11:59

Tgt Ion:119 Resp: 8895  
 Ion Ratio Lower Upper  
 119 100  
 134 25.6 0.0 51.6  
 91 26.7 0.0 49.6





#83

1,3-Dichlorobenzene

Concen: 0.664 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

Instrument :

MSVOA\_N

ClientSampleId :

I.BLK

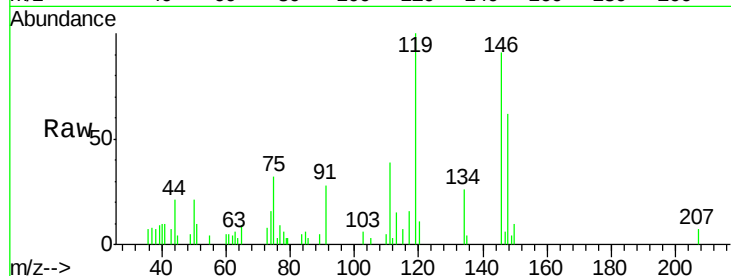
Tot Ion:146 Resp: 7831

Ion Ratio Lower Upper

146 100

111 40.3 20.9 62.8

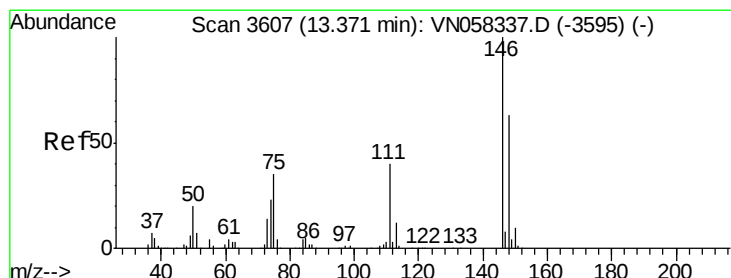
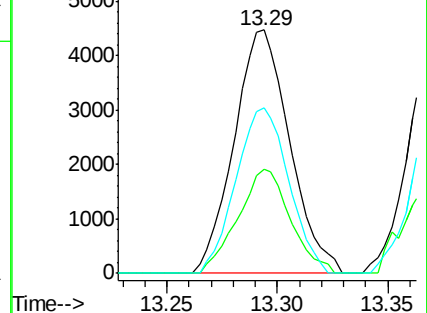
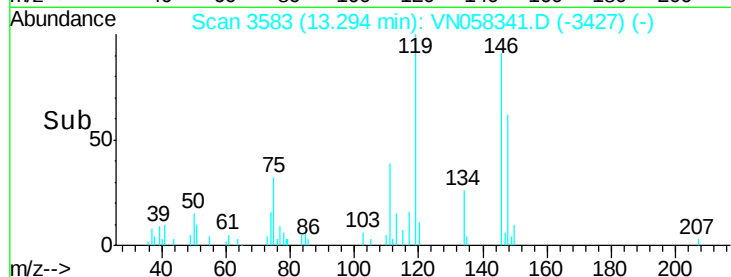
148 64.5 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 0.742 ug/l

RT: 13.37 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

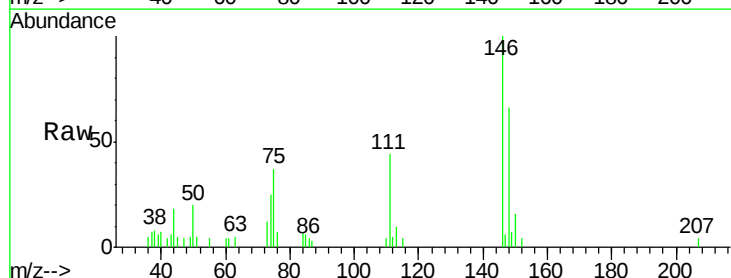
Tgt Ion:146 Resp: 8704

Ion Ratio Lower Upper

146 100

111 43.0 20.4 61.3

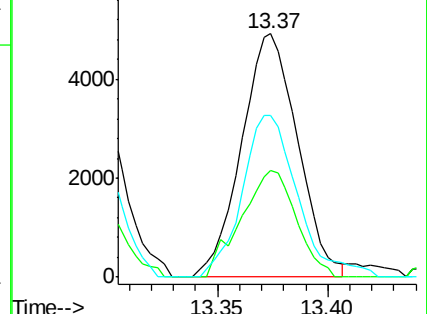
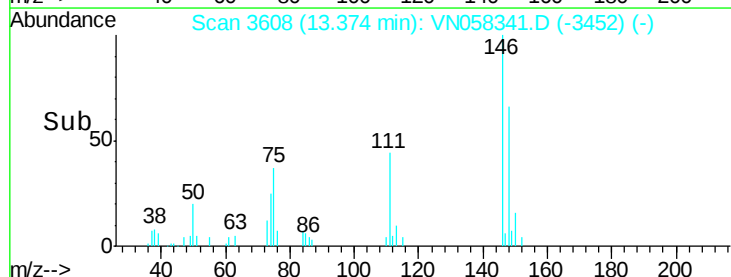
148 65.9 31.9 95.7

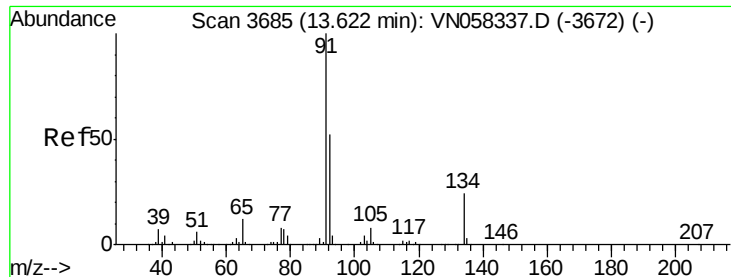


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

n-Butylbenzene

Concen: 0.776 ug/l

RT: 13.63 min Scan# 3686

Delta R.T. 0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

Instrument :

MSVOA\_N

ClientSampled :

I.BLK

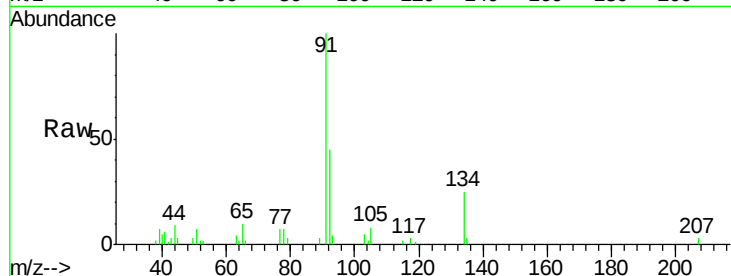
Tot Ion: 91 Resp: 16740

Ion Ratio Lower Upper

91 100

92 48.1 0.0 102.6

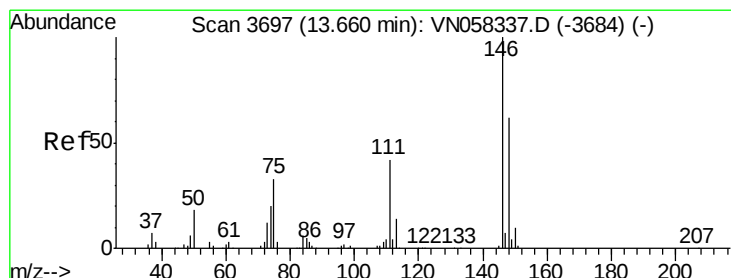
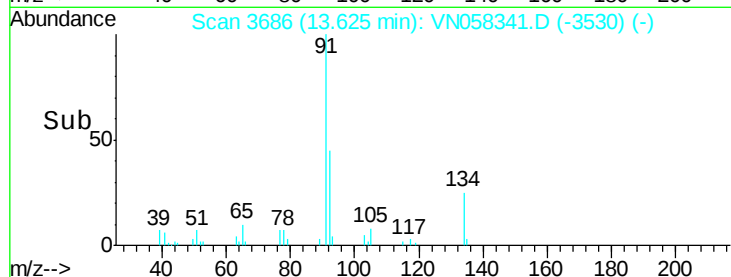
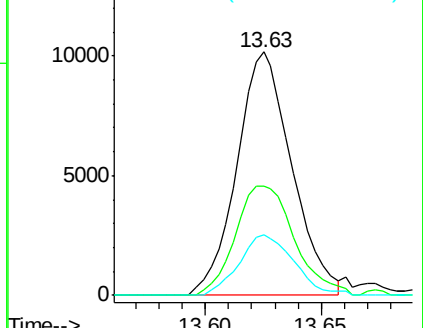
134 24.4 0.0 47.8



Abundance Ion 91.00 (90.70 to 91.70): VN058337.D (-3672) (-)

Ion 92.00 (91.70 to 92.70): VN058337.D (-3672) (-)

Ion 134.00 (133.70 to 134.70): VN058337.D (-3672) (-)



#87

1,2-Dichlorobenzene

Concen: 0.639 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

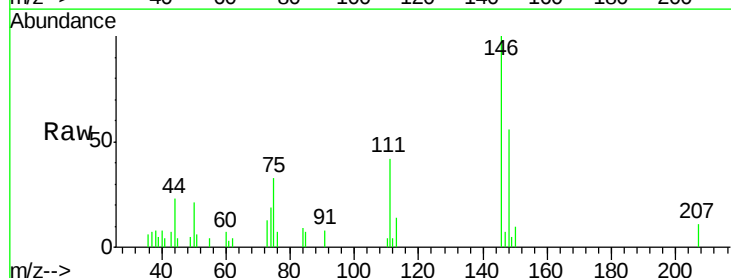
Tgt Ion: 146 Resp: 7356

Ion Ratio Lower Upper

146 100

111 39.7 21.1 63.3

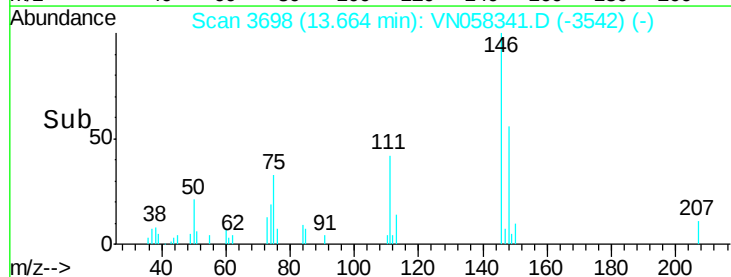
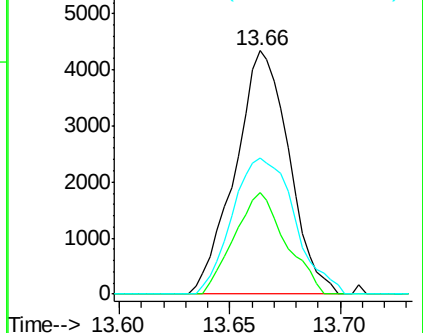
148 64.7 31.9 95.7

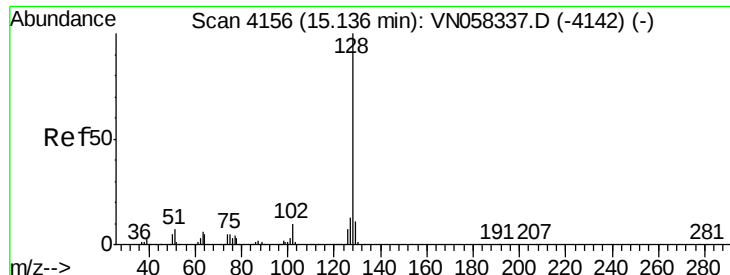


Abundance Ion 146.00 (145.70 to 146.70): VN058337.D (-3684) (-)

Ion 111.00 (110.70 to 111.70): VN058337.D (-3684) (-)

Ion 148.00 (147.70 to 148.70): VN058337.D (-3684) (-)





#91

Naphthalene

Concen: 4.933 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN058341.D

Acq: 24 Sep 2019 11:59

Instrument :

MSVOA\_N

ClientSampleId :

I.BLK

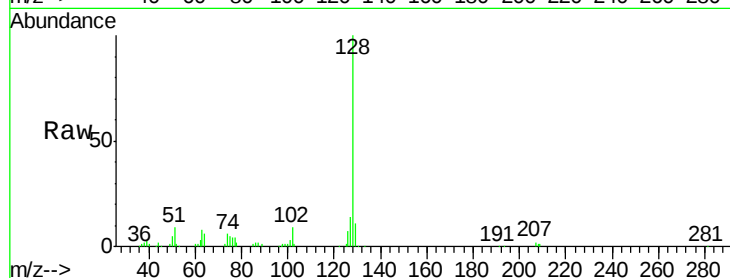
Tot Ion:128 Resp: 101893

Ion Ratio Lower Upper

128 100

127 14.0 10.2 15.4

129 10.8 8.6 13.0



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

