

Data File : VW014353.D
Acq On : 13 Dec 2019 16:48
Operator : SY/VA
Sample : K6270-04
Misc : 5.91G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ETK82

Quant Time: Dec 14 04:32:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 14 04:28:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	39730	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	21200	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.33	152	154	25.00	ug/L	-0.22

System Monitoring Compounds

4) Vinyl Chloride-d3	2.34	65	18379	30.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	122.20%
7) Chloroethane-d5	2.89	69	17904	40.02	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	160.08%#
10) 1,1-Dichloroethene-d2	4.03	63	22874	21.53	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	86.12%
20) 2-Butanone-d5	7.16	46	335	2.14	ug/L	0.09
Spiked Amount	50.000	Range	20 - 135	Recovery	=	4.28%#
24) Chloroform-d	7.64	84	32722	32.35	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	129.40%
26) 1,2-Dichloroethane-d4	8.31	65	17592	33.17	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	132.68%#
29) Benzene-d6	8.27	84	57001	45.88	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	183.52%#
33) 1,2-Dichloropropane-d6	9.27	67	19035	49.80	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	199.20%#
37) Toluene-d8	10.32	98	31821	28.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	113.28%
38) trans-1,3-Dichloropropene-	10.58	79	5353	33.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	133.52%
39) 2-Hexanone-d5	11.14	63	55	0.72	ug/L	0.22
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.44%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	10873	34.91	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	139.64%#
61) 1,2-Dichlorobenzene-d4	13.86	152	1807	307.07	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	1228.28%#

Target Compounds

					Qvalue
3) Chloromethane	2.34	50	193	0.508 ug/L	98
13) Acetone	4.13	43	2865	18.954 ug/L	96
14) Carbon disulfide	4.39	76	732	0.450 ug/L	97
21) 2-Butanone	7.17	43	436	2.148 ug/L	95
30) Cyclohexane	7.96	56	1703	3.218 ug/L	96
34) Benzene	8.32	78	5864	4.369 ug/L	100
35) Trichloroethene	9.09	95	192	0.559 ug/L #	46
36) Methylcyclohexane	9.34	83	1737	3.010 ug/L #	39
40) 1,2-Dichloropropane	9.27	63	1254	3.636 ug/L #	85
42) cis-1,3-Dichloropropene	10.04	75	368	0.713 ug/L #	32
44) Toluene	10.38	91	11323	8.046 ug/L	93
46) 1,1,2-Trichloroethane	10.76	97	187	0.724 ug/L #	15
47) Tetrachloroethene	10.85	164	966	3.375 ug/L #	54
50) Dibromochloromethane	10.86	129	604	2.083 ug/L #	10
53) Ethylbenzene	11.73	91	2632	1.724 ug/L #	82
54) m,p-Xylene	11.83	106	878	1.495 ug/L	99
55) o-xylene	12.16	106	497	0.892 ug/L	74

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121319\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Sat Dec 14 04:28:18 2019
Response via : Initial Calibration

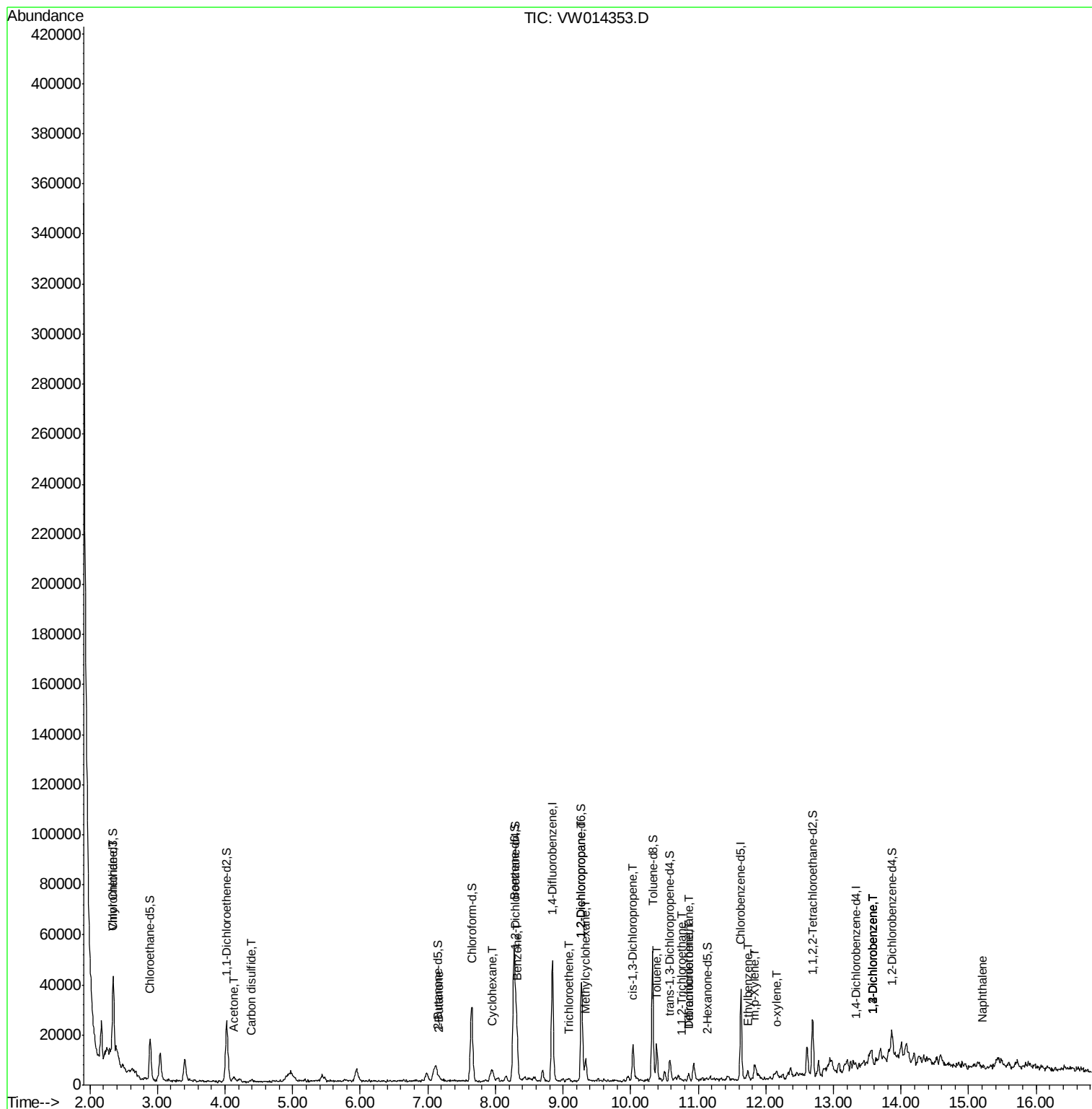
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,3-Dichlorobenzene	13.58	146	46	4.444	ug/L #	1
64) 1,4-Dichlorobenzene	13.58	146	46	4.374	ug/L #	1
65) 1,2-Dichlorobenzene	13.58	146	46	4.779	ug/L #	1
69) Naphthalene	15.21	128	27	2.473	ug/L #	69

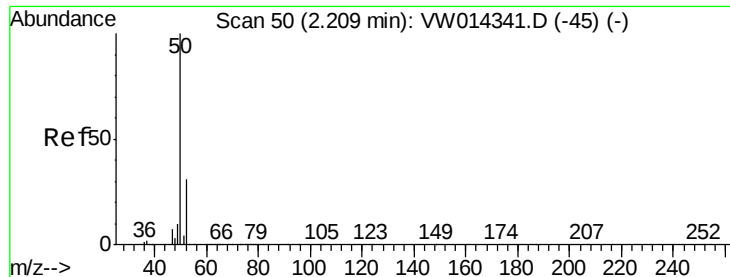
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.508 ug/L

RT: 2.34 min Scan# 71

Delta R.T. 0.13 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

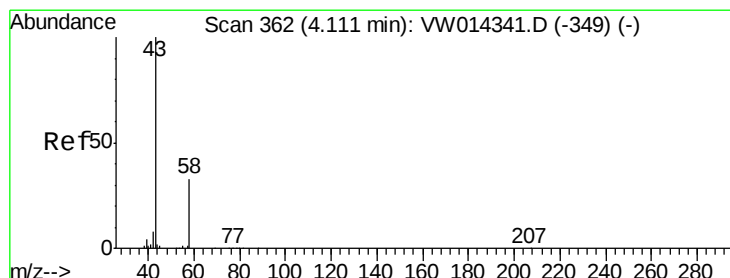
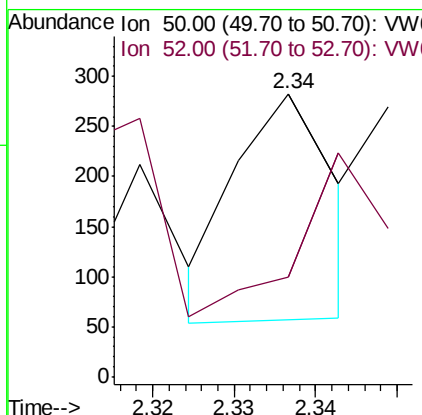
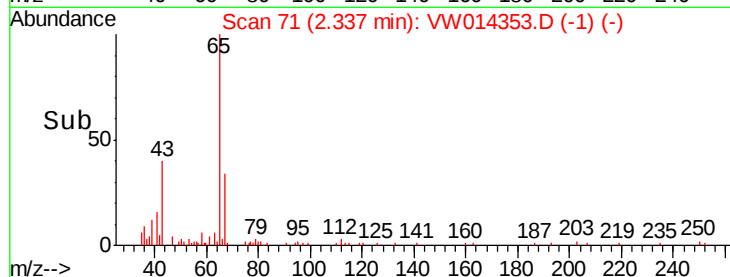
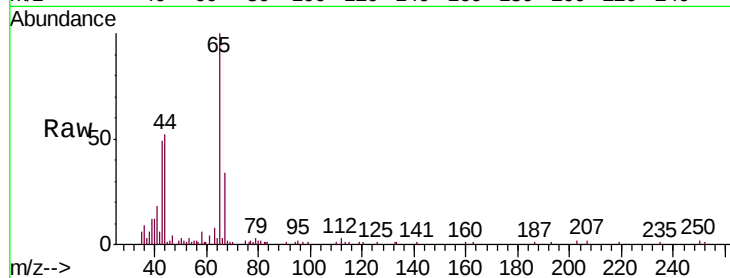
ETK82

Tgt Ion: 50 Resp: 193

Ion Ratio Lower Upper

50 100

52 35.0 23.8 44.2



#13

Acetone

Concen: 18.954 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.02 min

Lab File: VW014353.D

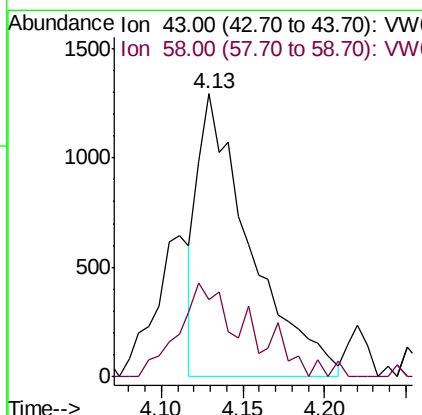
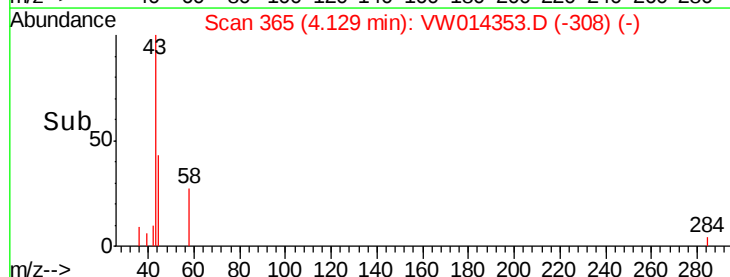
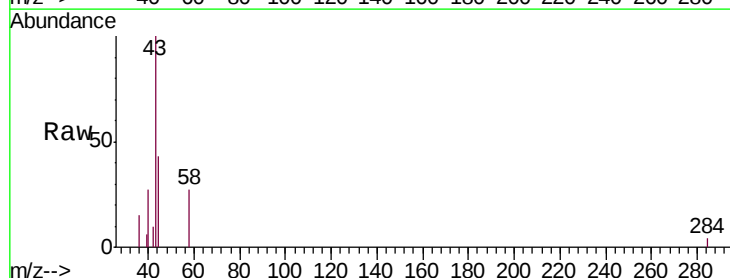
Acq: 13 Dec 2019 16:48

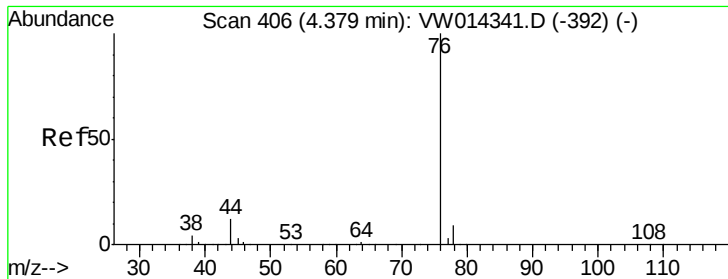
Tgt Ion: 43 Resp: 2865

Ion Ratio Lower Upper

43 100

58 30.3 0.0 65.4





#14

Carbon disulfide

Concen: 0.450 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

MSVOA_W

ClientSampled :

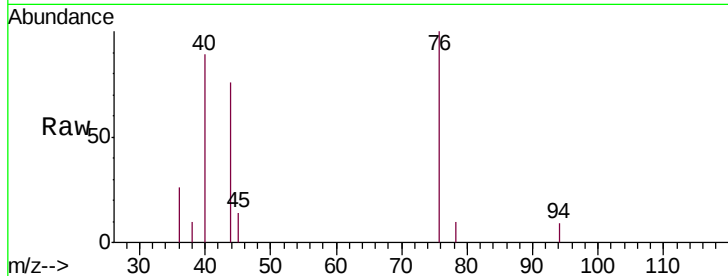
ETK82

Tgt Ion: 76 Resp: 732

Ion Ratio Lower Upper

76 100

78 10.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

600

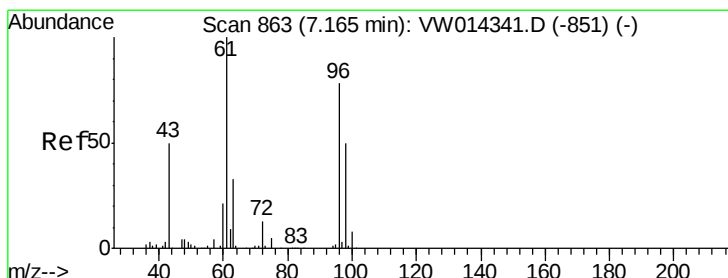
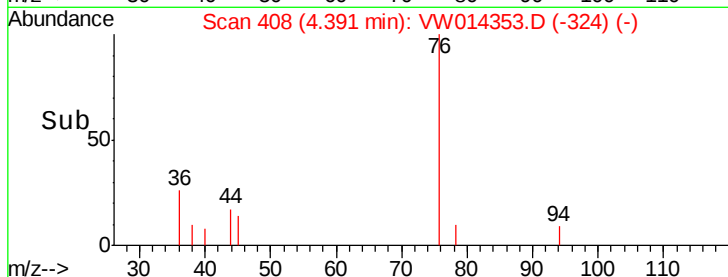
400

200

0

4.38 4.39 4.40 4.41

Time-->



#21

2-Butanone

Concen: 2.148 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW014353.D

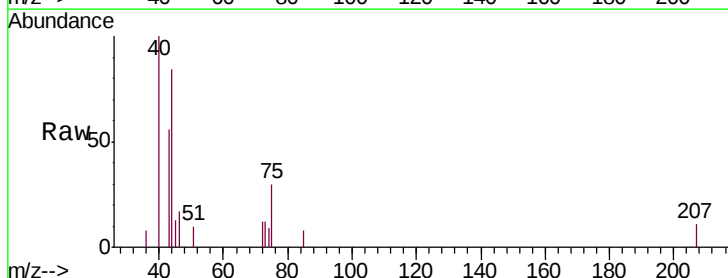
Acq: 13 Dec 2019 16:48

Tgt Ion: 43 Resp: 436

Ion Ratio Lower Upper

43 100

72 30.7 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.17

500

400

300

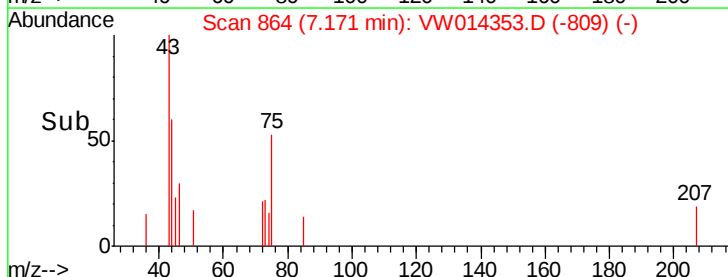
200

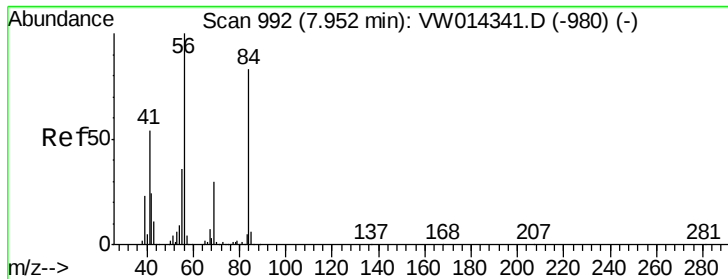
100

0

7.16 7.17 7.18 7.19

Time-->

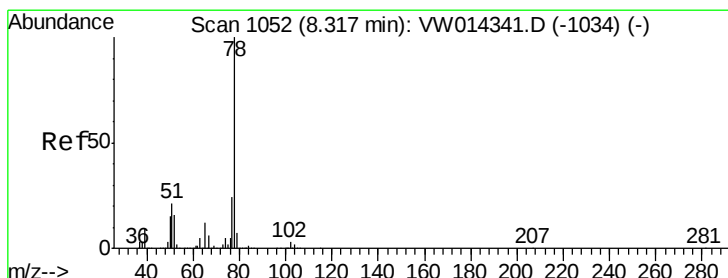
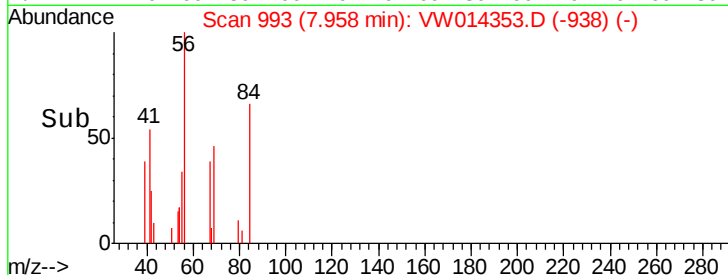
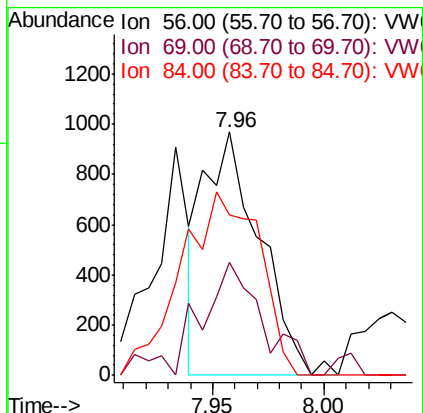
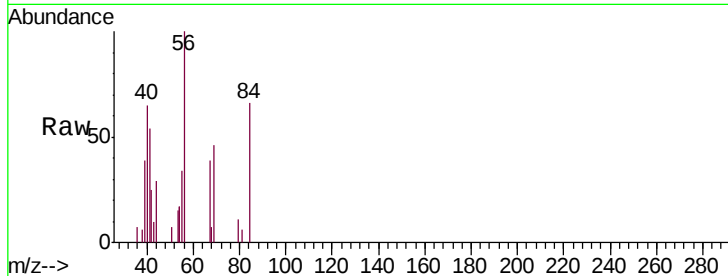




#30
Cyclohexane
Concen: 3.218 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW014353.D
Acq: 13 Dec 2019 16:48

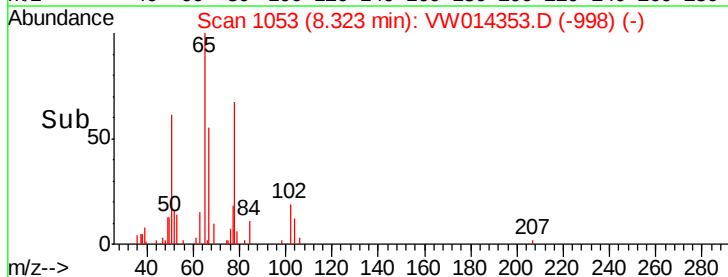
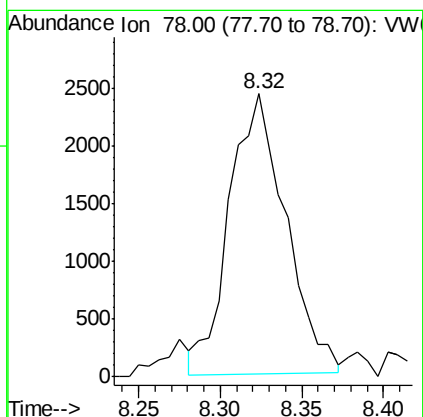
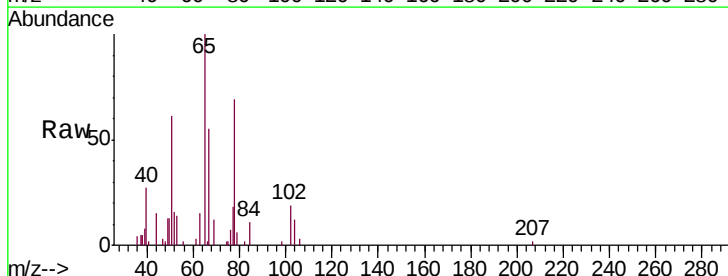
Instrument :
MSVOA_W
ClientSampleId :
ETK82

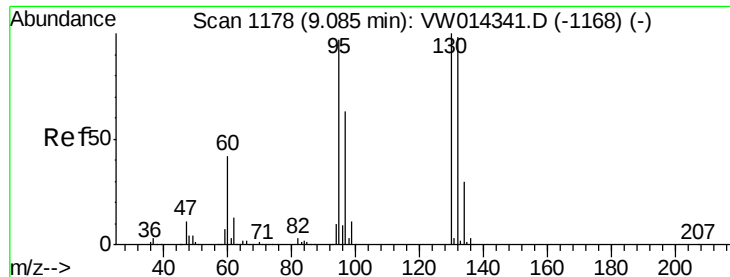
Tgt Ion: 56 Resp: 1703
Ion Ratio Lower Upper
56 100
69 32.3 24.6 37.0
84 83.0 70.2 105.2



#34
Benzene
Concen: 4.369 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW014353.D
Acq: 13 Dec 2019 16:48

Tgt Ion: 78 Resp: 5864





#35

Trichloroethene

Concen: 0.559 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

MSVOA_W

ClientSampled :

ETK82

Tgt Ion: 95 Resp: 192

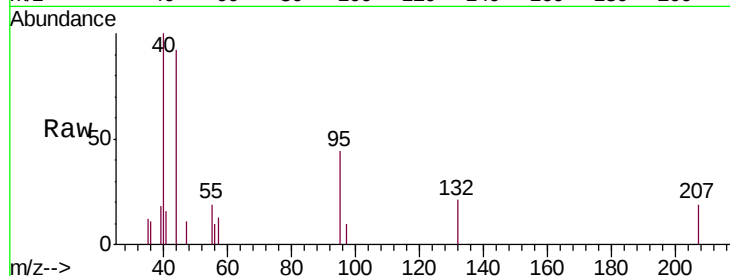
Ion Ratio Lower Upper

95 100

97 40.1 45.1 83.9#

132 88.5 73.7 136.9

130 0.0 76.6 142.2#

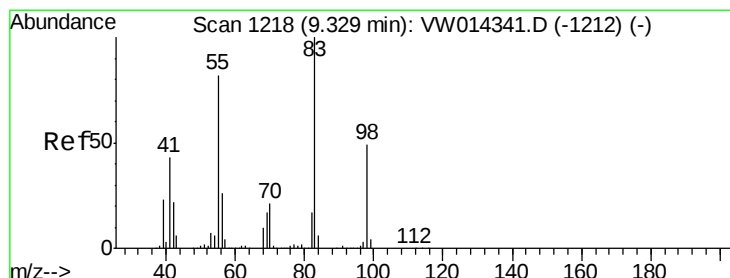
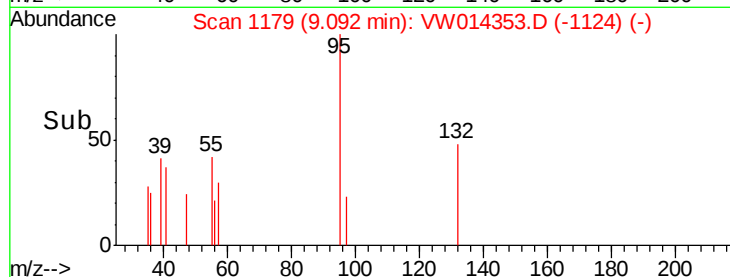
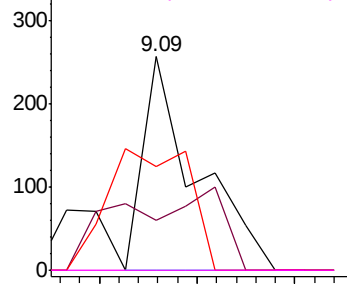


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 3.010 ug/L

RT: 9.34 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

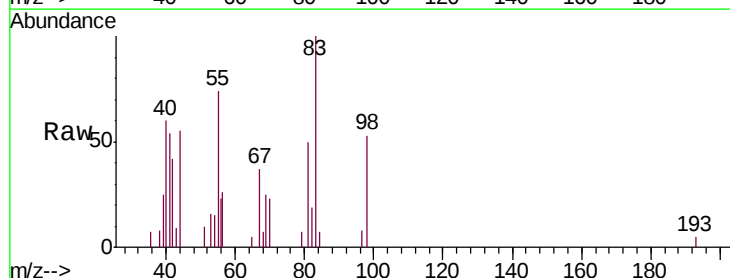
Tgt Ion: 83 Resp: 1737

Ion Ratio Lower Upper

83 100

55 151.1 59.8 89.8#

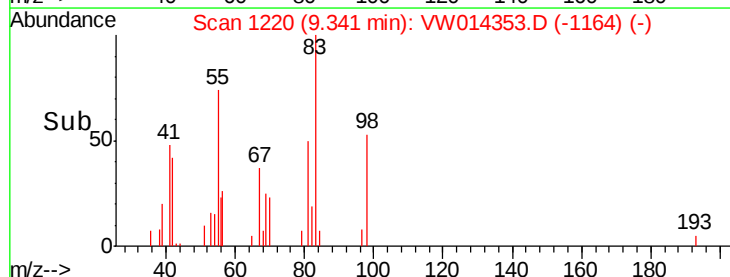
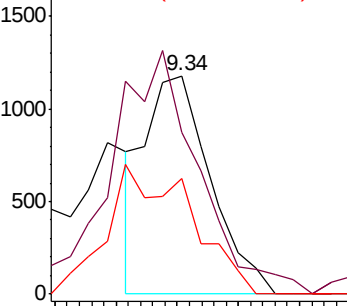
98 38.3 39.5 59.3#

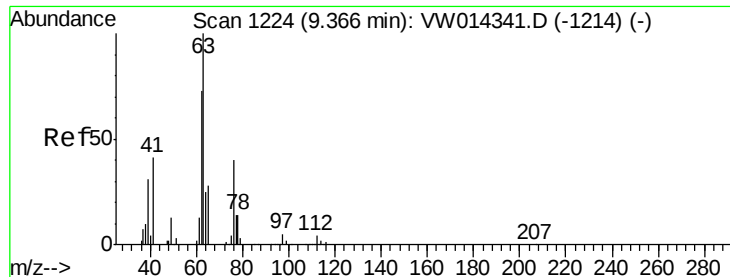


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 3.636 ug/L

RT: 9.27 min Scan# 1208

Delta R.T. -0.10 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

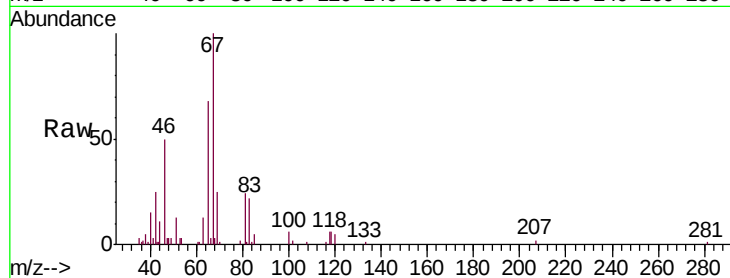
ETK82

Tgt Ion: 63 Resp: 1254

Ion Ratio Lower Upper

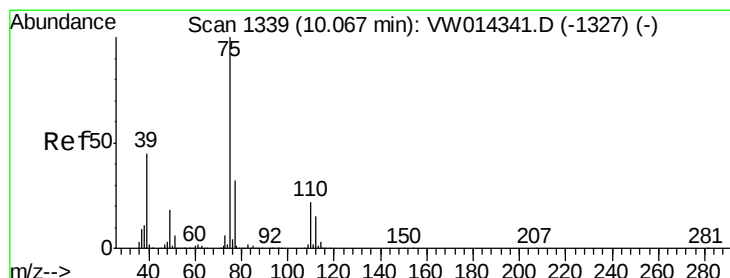
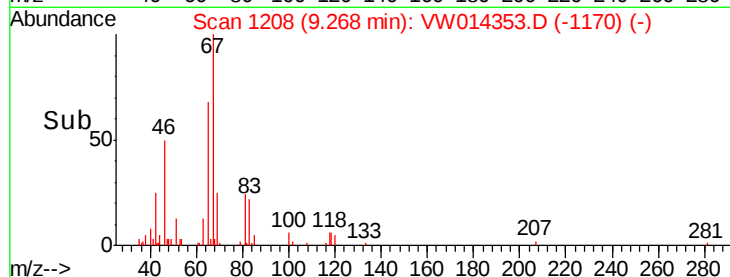
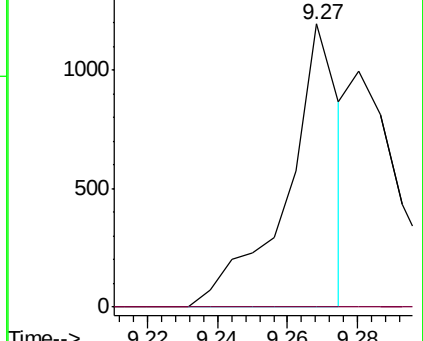
63 100

112 0.0 3.9 5.9#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): VW



#42

cis-1,3-Dichloropropene

Concen: 0.713 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.03 min

Lab File: VW014353.D

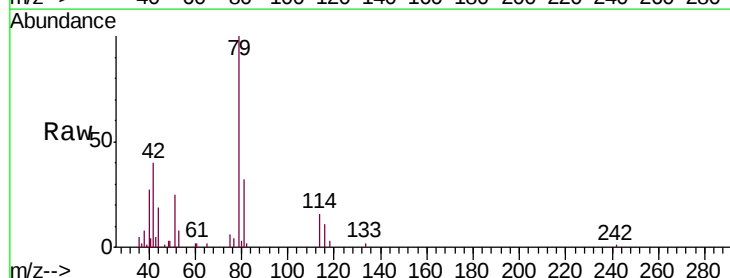
Acq: 13 Dec 2019 16:48

Tgt Ion: 75 Resp: 368

Ion Ratio Lower Upper

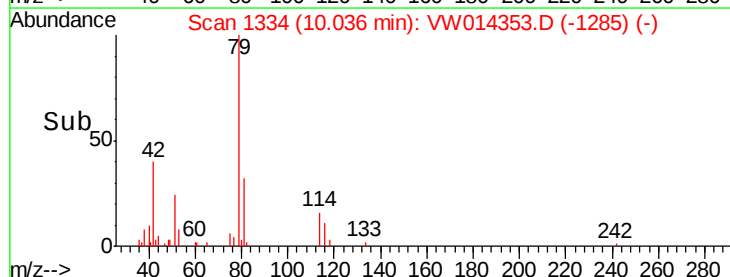
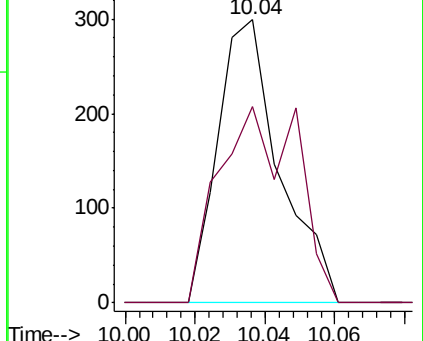
75 100

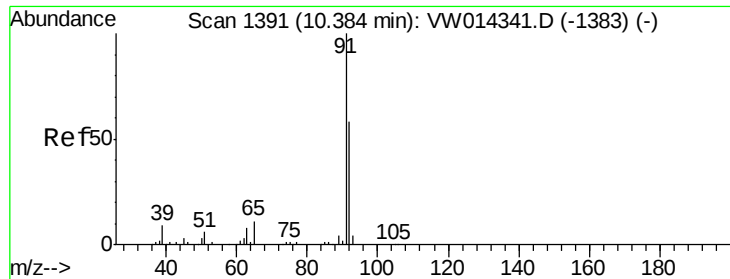
77 69.6 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#44

Toluene

Concen: 8.046 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

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ClientSampleId :

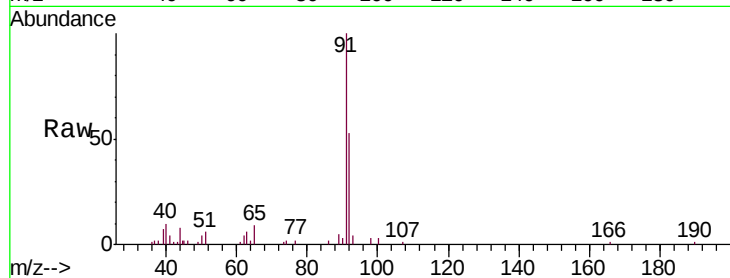
ETK82

Tgt Ion: 91 Resp: 11323

Ion Ratio Lower Upper

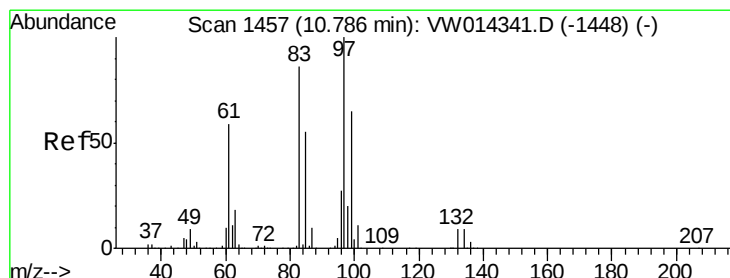
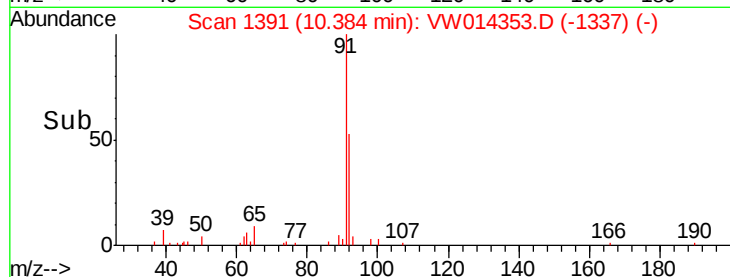
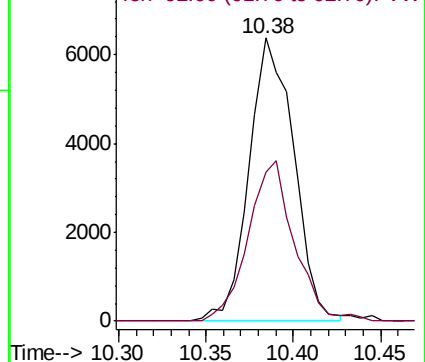
91 100

92 52.8 40.7 75.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



#46

1,1,2-Trichloroethane

Concen: 0.724 ug/L

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Tgt Ion: 97 Resp: 187

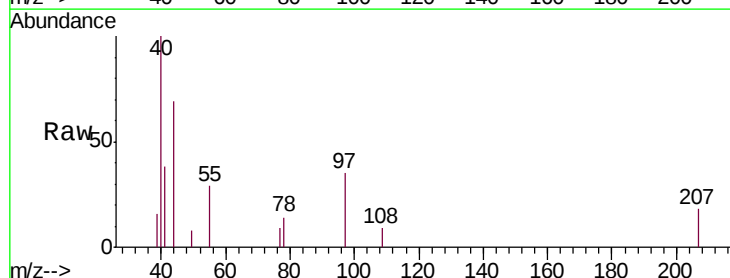
Ion Ratio Lower Upper

97 100

83 0.0 58.9 109.5#

85 0.0 38.1 70.9#

99 0.0 46.5 86.3#

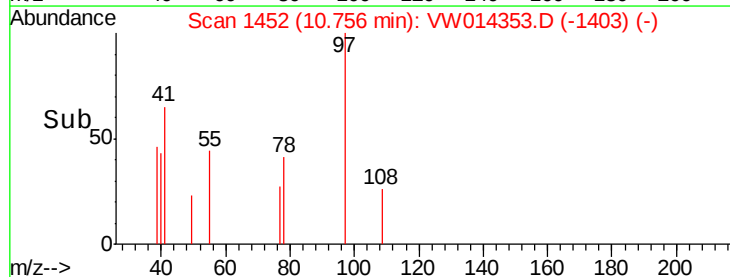
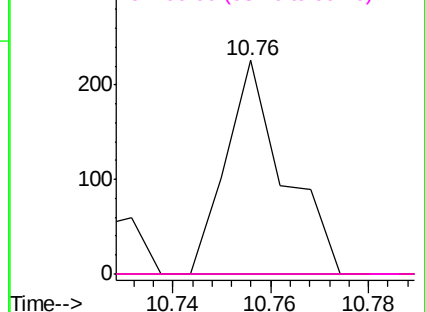


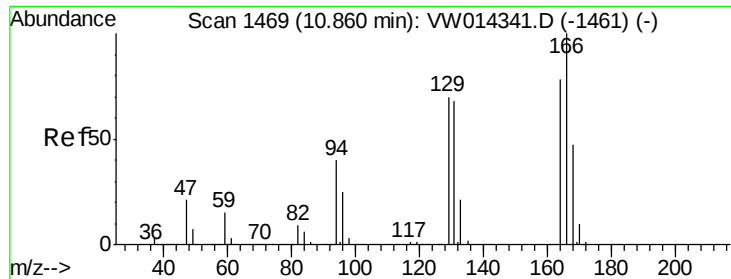
Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW

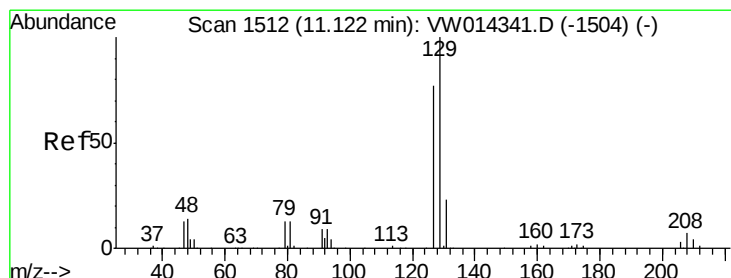
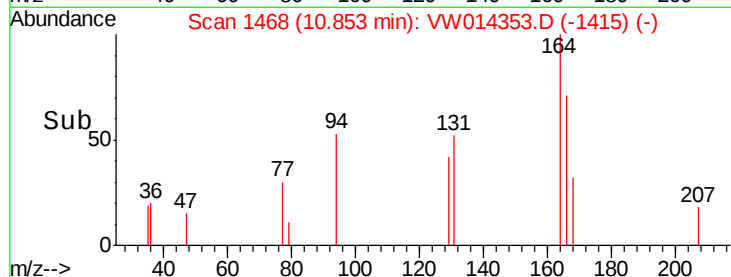
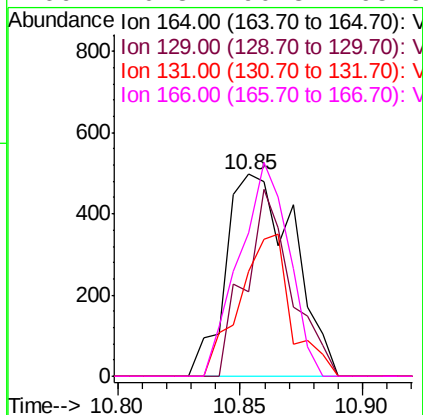
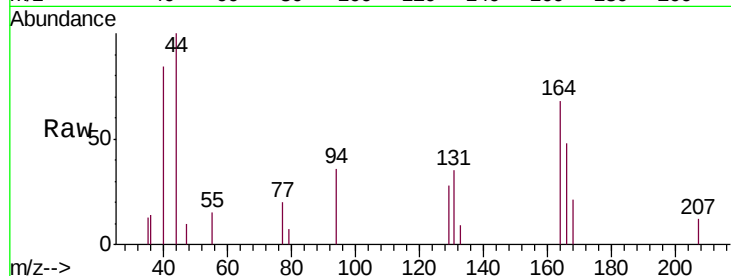




#47
Tetrachloroethene
Concen: 3.375 ug/L
RT: 10.85 min Scan# 1468
Delta R.T. -0.01 min
Lab File: VW014353.D
Acq: 13 Dec 2019 16:48

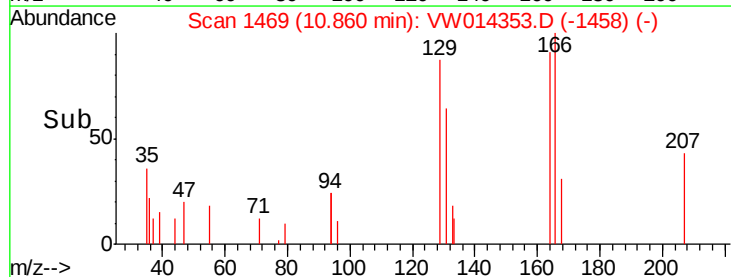
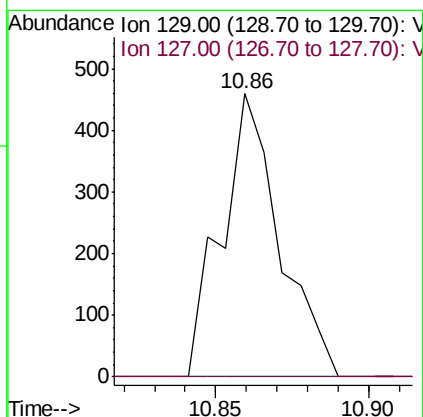
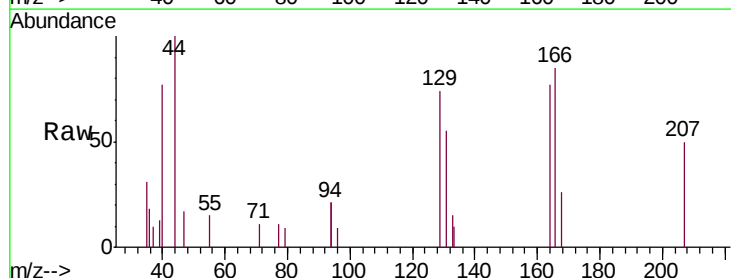
Instrument :
MSVOA_W
ClientSampleId :
ETK82

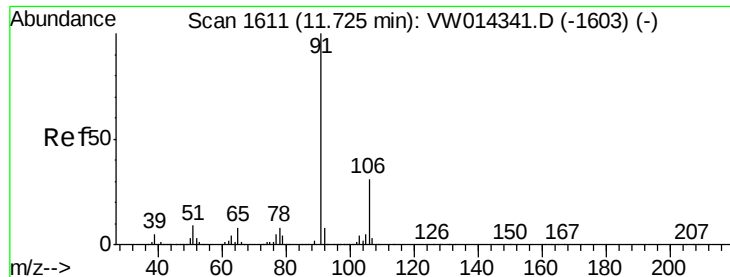
Tgt Ion:164 Resp: 966
Ion Ratio Lower Upper
164 100
129 41.9 60.6 112.6#
131 52.1 59.1 109.7#
166 70.8 90.8 168.6#



#50
Dibromochloromethane
Concen: 2.083 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.26 min
Lab File: VW014353.D
Acq: 13 Dec 2019 16:48

Tgt Ion:129 Resp: 604
Ion Ratio Lower Upper
129 100
127 0.0 54.9 102.1#





#53

Ethylbenzene

Concen: 1.724 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

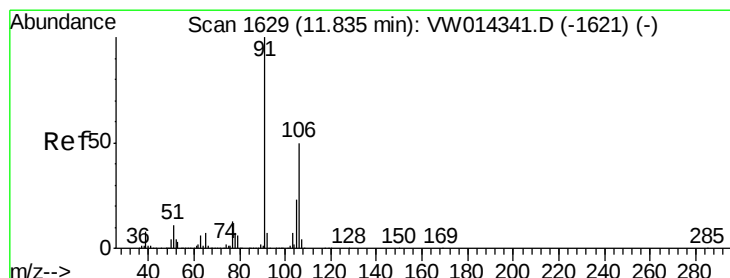
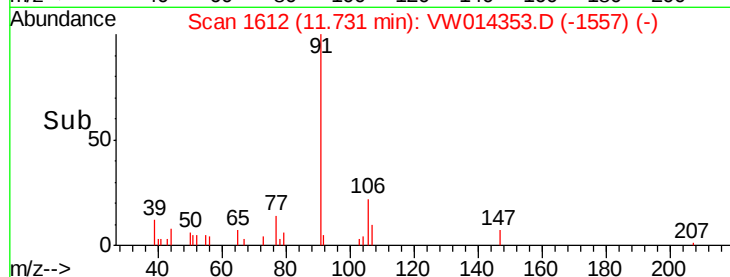
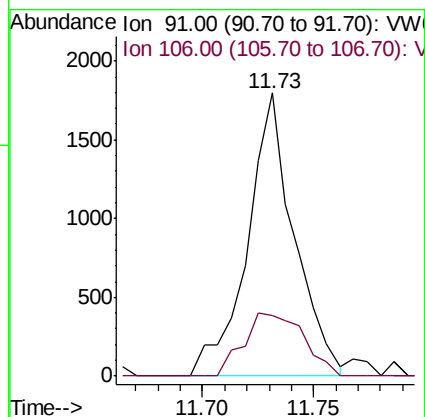
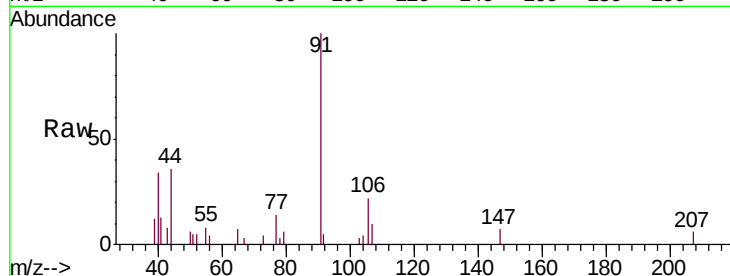
ETK82

Tgt Ion: 91 Resp: 2632

Ion Ratio Lower Upper

91 100

106 21.6 22.3 41.5#



#54

m,p-Xylene

Concen: 1.495 ug/L

RT: 11.83 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VW014353.D

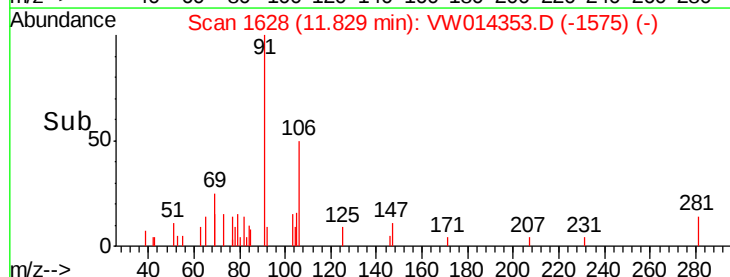
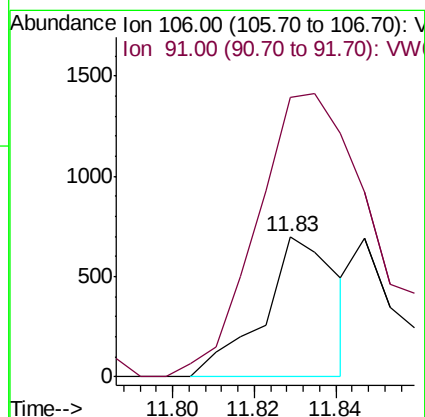
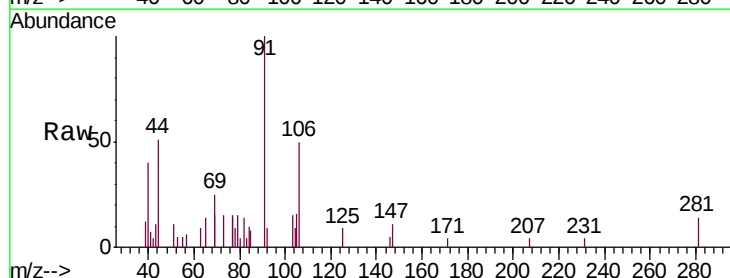
Acq: 13 Dec 2019 16:48

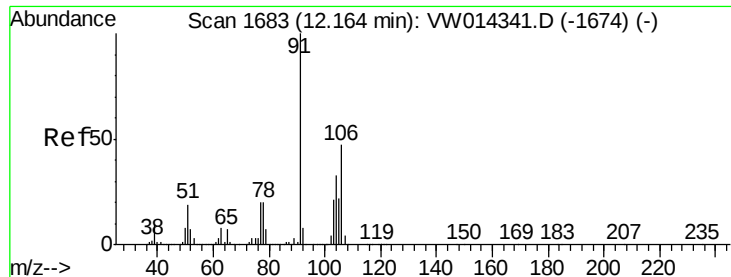
Tgt Ion: 106 Resp: 878

Ion Ratio Lower Upper

106 100

91 199.1 138.7 257.5

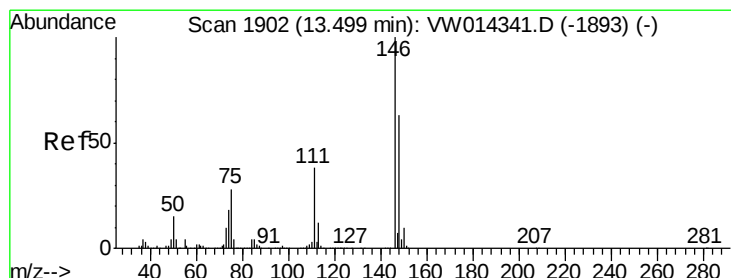
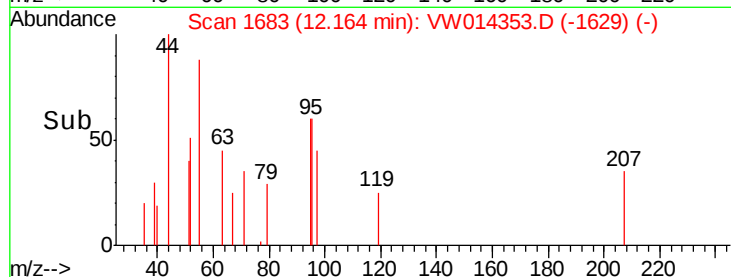
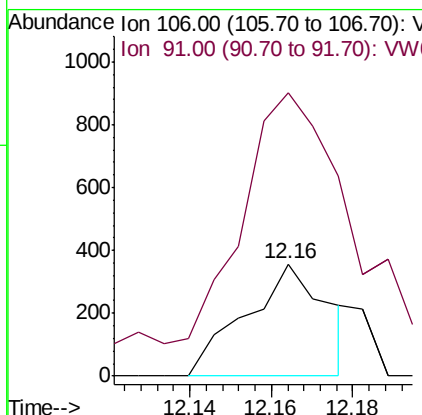
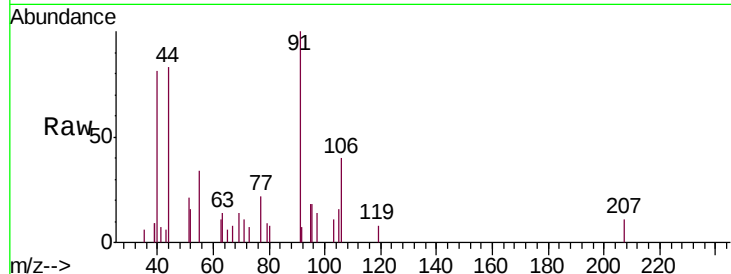




#55
o-xylene
Concen: 0.892 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014353.D
Acq: 13 Dec 2019 16:48

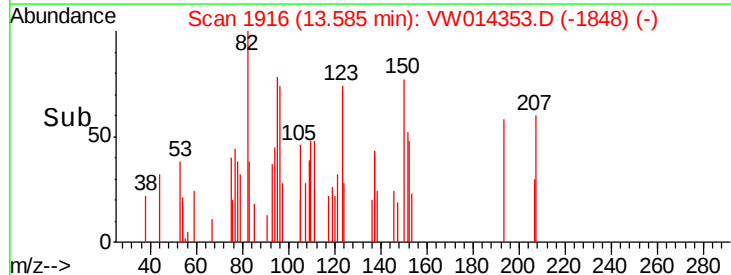
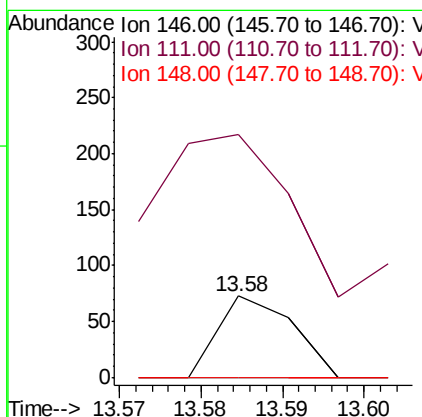
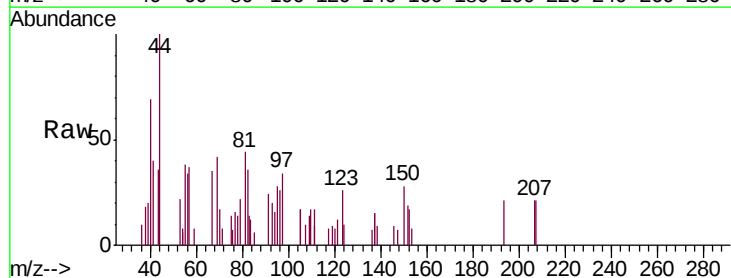
Instrument :
MSVOA_W
ClientSampleId :
ETK82

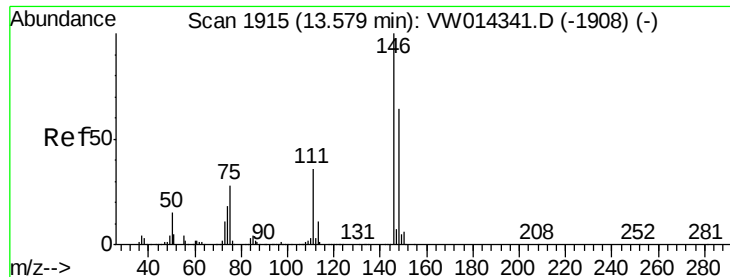
Tgt Ion:106 Resp: 497
Ion Ratio Lower Upper
106 100
91 253.1 148.3 275.5



#63
1,3-Dichlorobenzene
Concen: 4.444 ug/L
RT: 13.58 min Scan# 1916
Delta R.T. 0.09 min
Lab File: VW014353.D
Acq: 13 Dec 2019 16:48

Tgt Ion:146 Resp: 46
Ion Ratio Lower Upper
146 100
111 297.3 26.0 48.2#
148 0.0 44.7 82.9#





#64

1,4-Dichlorobenzene

Concen: 4.374 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Instrument :

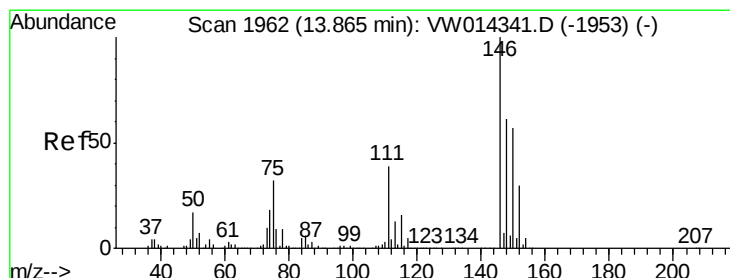
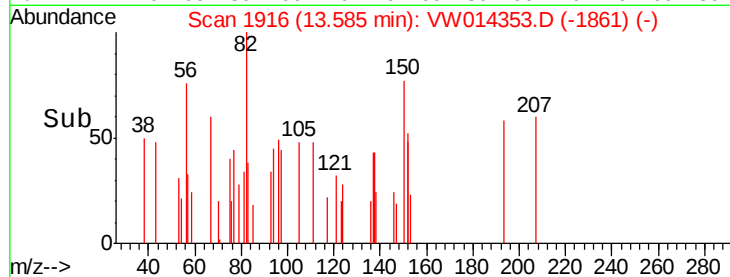
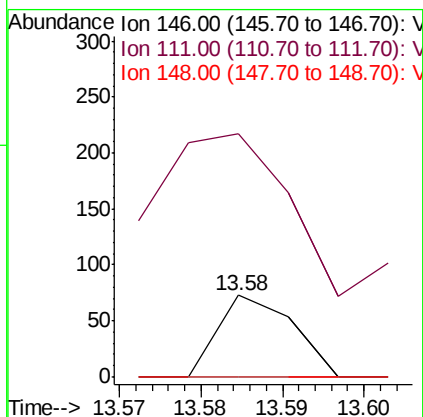
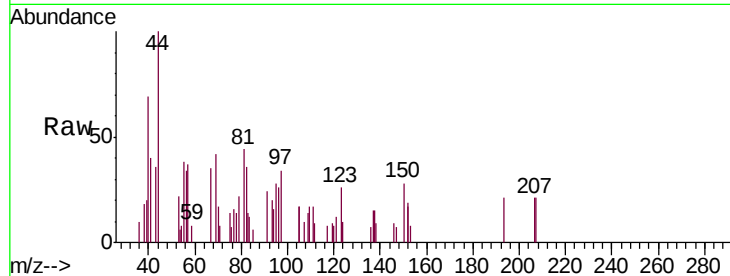
MSVOA_W

ClientSampleId :

ETK82

Tgt Ion:146 Resp: 46

Ion	Ratio	Lower	Upper
146	100		
111	297.3	24.9	46.3#
148	0.0	43.9	81.5#



#65

1,2-Dichlorobenzene

Concen: 4.779 ug/L

RT: 13.58 min Scan# 1916

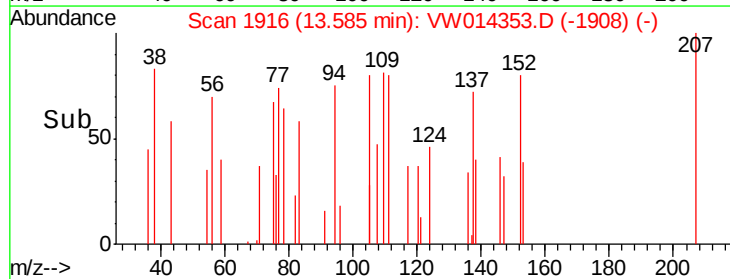
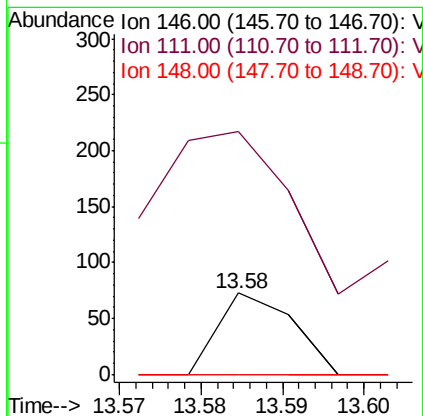
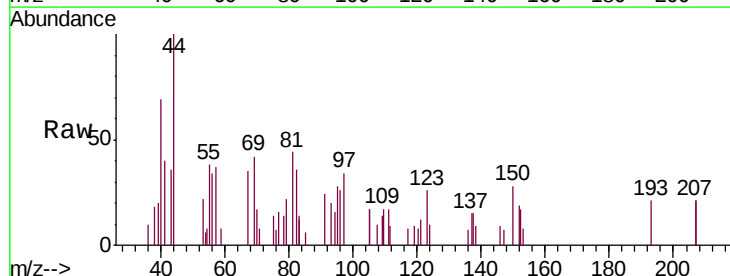
Delta R.T. -0.28 min

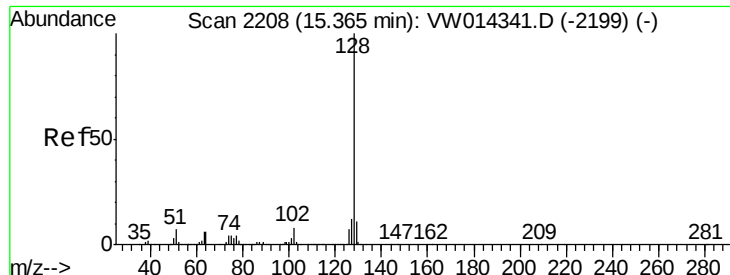
Lab File: VW014353.D

Acq: 13 Dec 2019 16:48

Tgt Ion:146 Resp: 46

Ion	Ratio	Lower	Upper
146	100		
111	297.3	30.5	45.7#
148	0.0	49.4	74.2#





#69

Naphthalene

Concen: 2.473 ug/L

RT: 15.21 min Scan# 2182

Delta R.T. -0.16 min

Lab File: VW014353.D

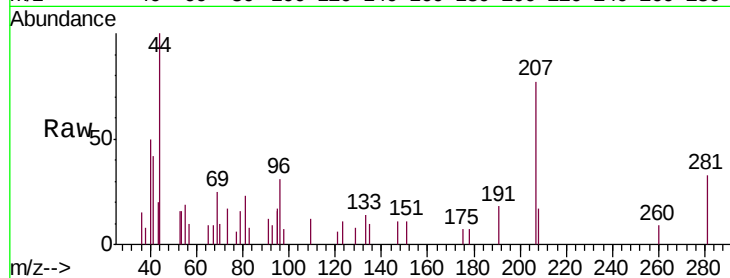
Acq: 13 Dec 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

ETK82



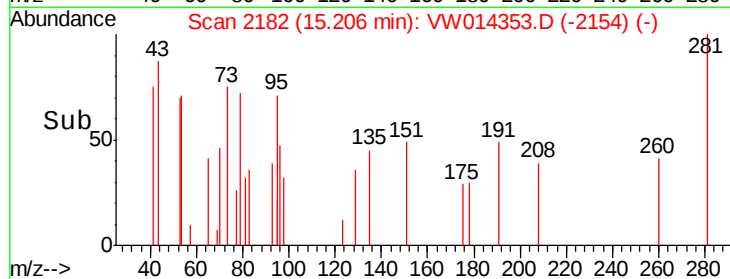
Tgt Ion:128 Resp: 27

Ion Ratio Lower Upper

128 100

129 0.0 8.8 13.2#

127 0.0 10.4 15.6#



Abundance Ion 128.00 (127.70 to 128.70): V

100 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

