

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033188.D
 Acq On : 13 Feb 2019 15:49
 Operator : SY/AP
 Sample : K1408-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IA

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:23:37 PM

Quant Time: Feb 20 07:25:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 07:25:13 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	902553	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2328680	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2300874	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1834784	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	29237	0.169	ppbv	96
3) Chlorodifluoromethane	3.01	51	30729m	0.283	ppbv	
4) Chloromethane	3.17	50	52259	0.911	ppbv	93
11) Trichlorofluoromethane	4.00	101	311229	2.228	ppbv	98
13) Ethanol	3.65	45	2676369	150.013	ppbv	97
15) Acetone	3.90	43	584691	5.750	ppbv	99
17) tert-Butyl alcohol	4.37	59	27533m	1.410	ppbv	
19) Isopropyl Alcohol	4.03	45	258582	3.749	ppbv #	97
20) Methylene Chloride	4.41	84	79998	1.978	ppbv	93
26) Hexane	5.78	57	315075	2.936	ppbv #	45
34) 2-Butanone	5.33	43	218121	1.477	ppbv	100
35) Carbon Tetrachloride	7.13	117	12229m	0.069	ppbv	
36) Benzene	7.00	78	60333	0.256	ppbv	96
53) Toluene	9.95	91	510295	1.826	ppbv	98
58) Ethyl Benzene	12.87	91	1091615	2.890	ppbv	99
59) m/p-Xylene	13.12	91	3317707	10.561	ppbv	99
60) o-Xylene	13.85	91	995155	3.248	ppbv	98

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

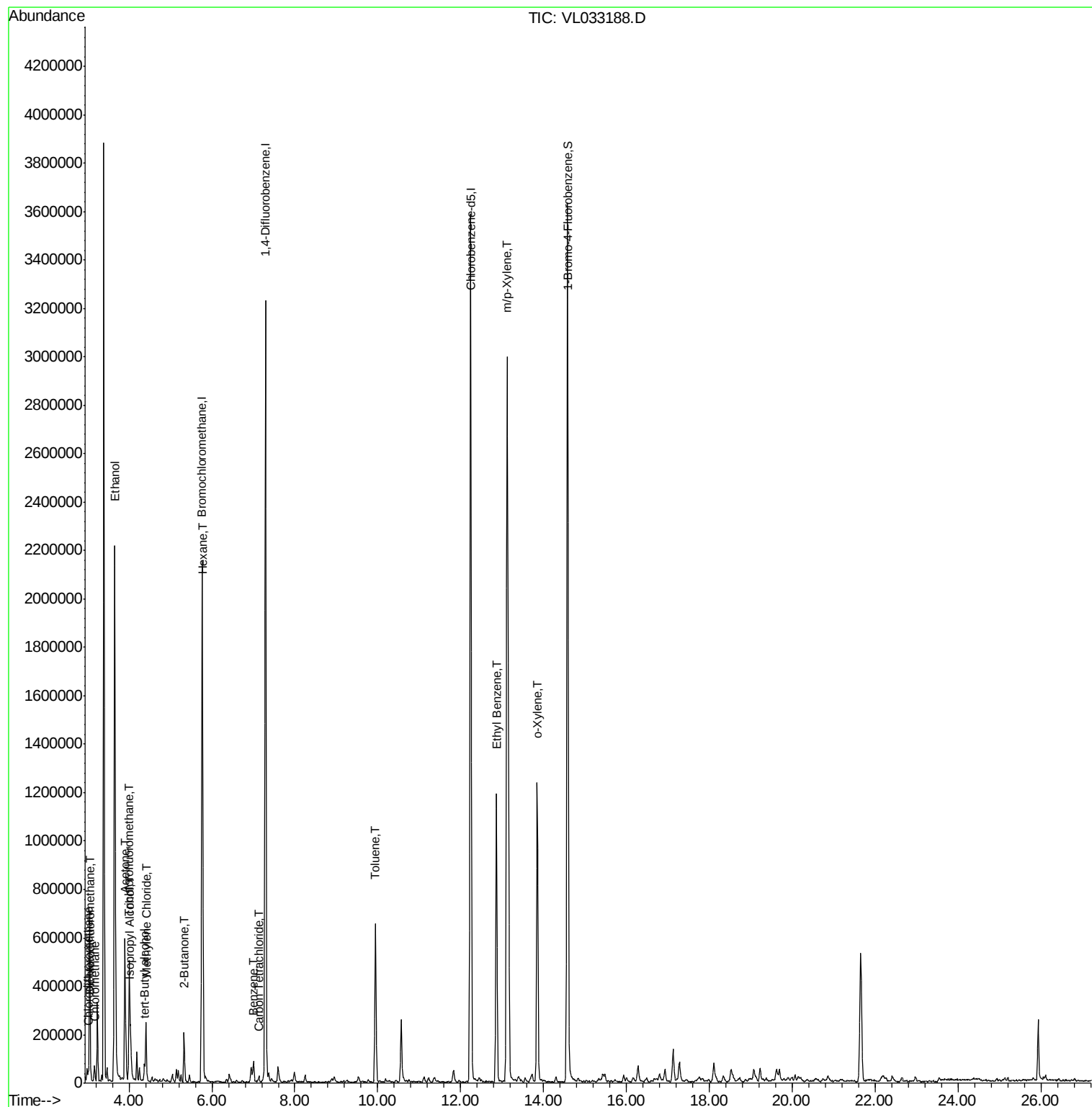
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
Data File : VL033188.D
Acq On : 13 Feb 2019 15:49
Operator : SY/AP
Sample : K1408-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

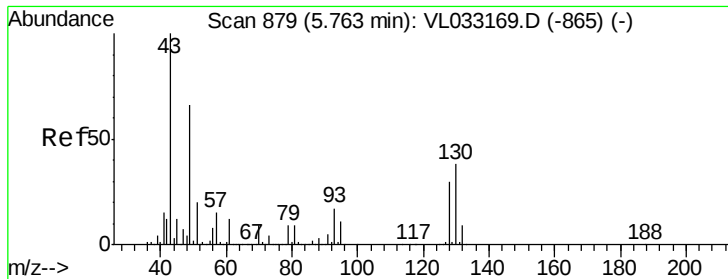
Instrument :
MSVOA_L
ClientSampleId :
AB-IA

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Quant Time: Feb 20 07:25:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033188.D

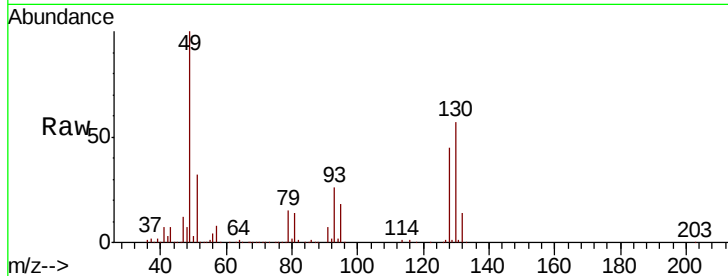
Acq: 13 Feb 2019 15:49

Instrument :

MSVOA_L

ClientSampled :

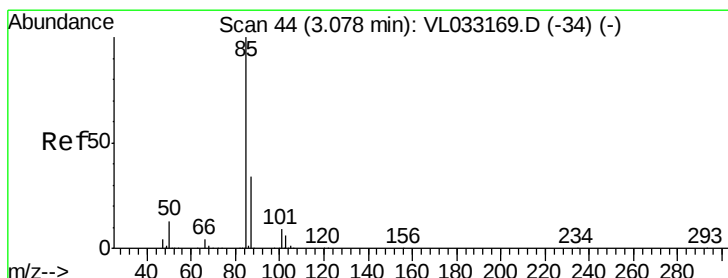
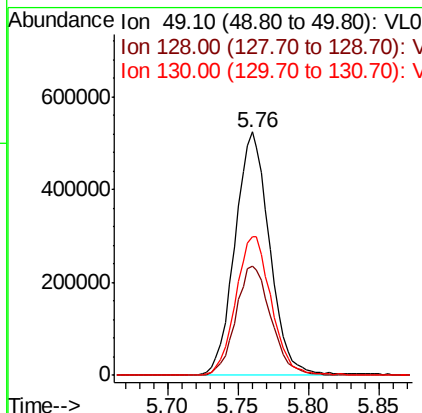
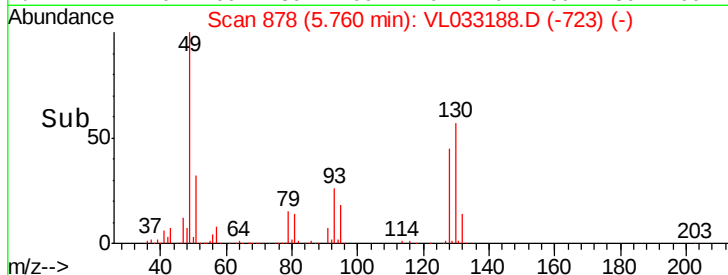
AB-IA



Tgt Ion:	49	Resp:	902553
Ion Ratio	Lower	Upper	
49	100		
128	45.8	23.6	71.0
130	59.0	30.3	91.0

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#2

Dichlorodifluoromethane

Concen: 0.169 ppbv

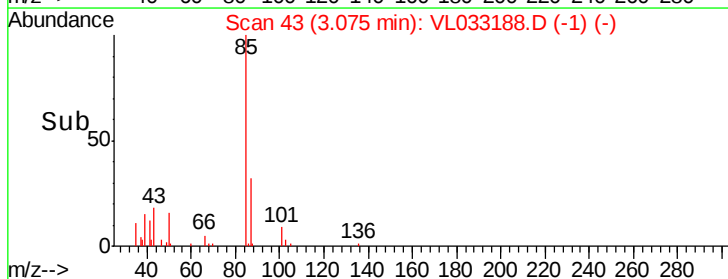
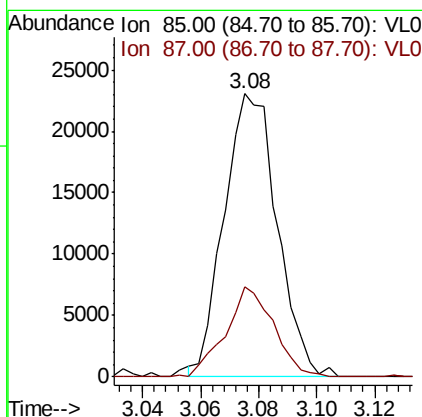
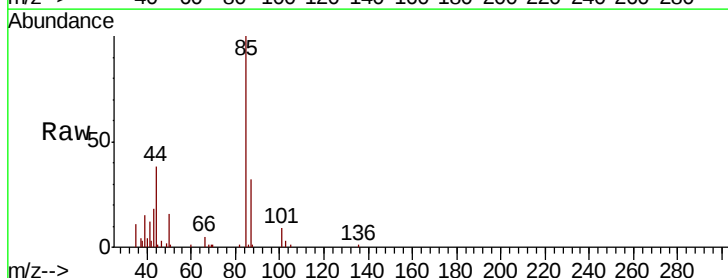
RT: 3.08 min Scan# 43

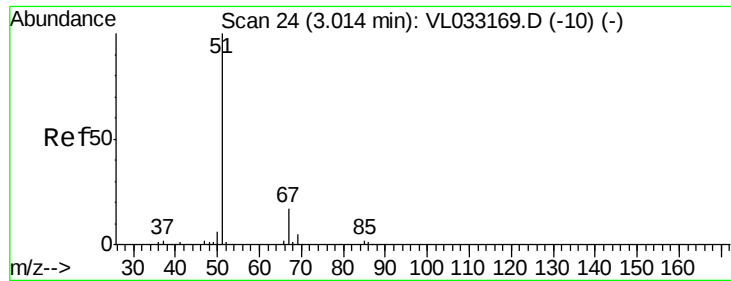
Delta R.T. -0.00 min

Lab File: VL033188.D

Acq: 13 Feb 2019 15:49

Tgt Ion:	85	Resp:	29237
Ion Ratio	Lower	Upper	
85	100		
87	31.9	27.4	41.2





#3

Chlorodifluoromethane

Concen: 0.283 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033188.D

Acq: 13 Feb 2019 15:49

Instrument :

MSVOA_L

ClientSampleId :

AB-IA

Tgt Ion: 51 Resp: 30729

Ion Ratio Lower Upper

51 100

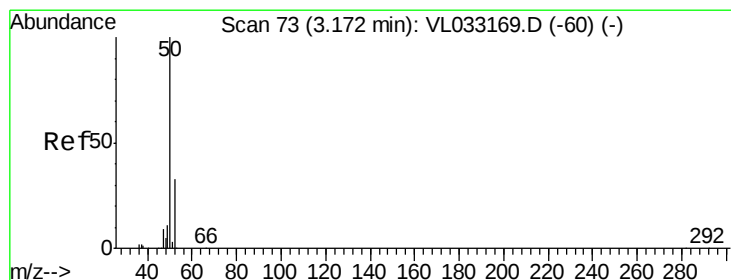
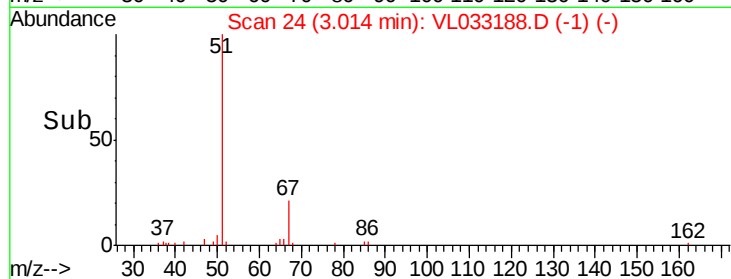
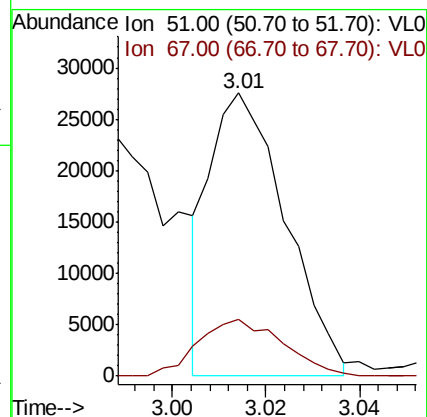
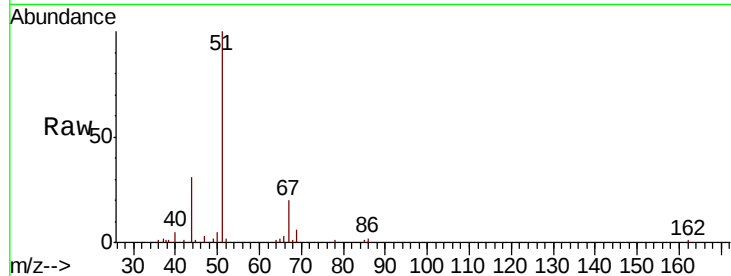
67 22.5 14.0 21.0#

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#4

Chloromethane

Concen: 0.911 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033188.D

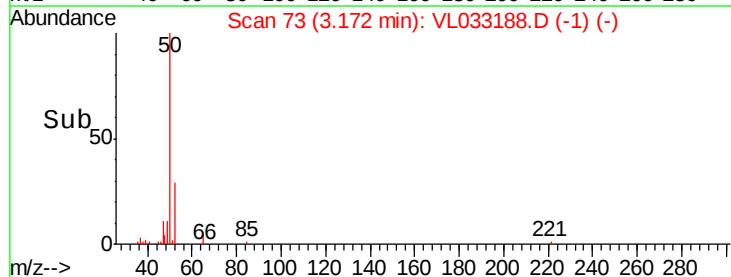
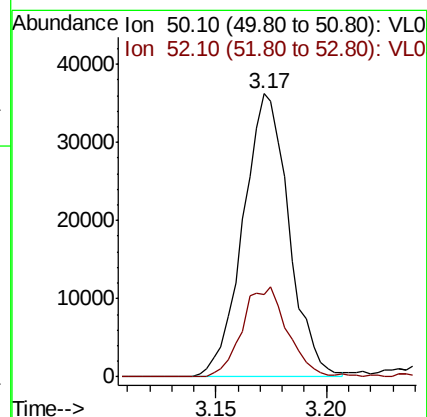
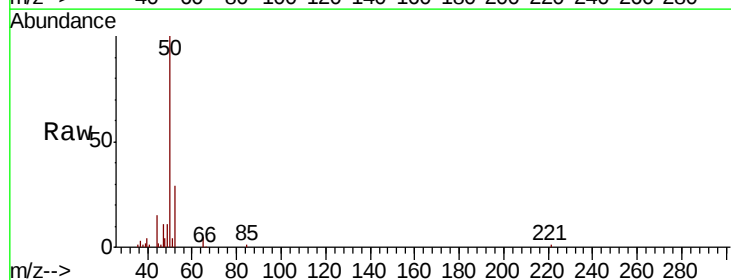
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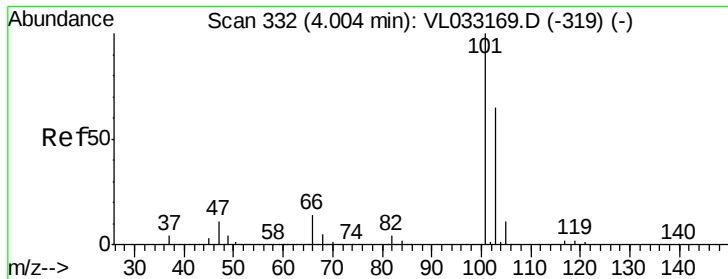
Tgt Ion: 50 Resp: 52259

Ion Ratio Lower Upper

50 100

52 29.3 26.5 39.7





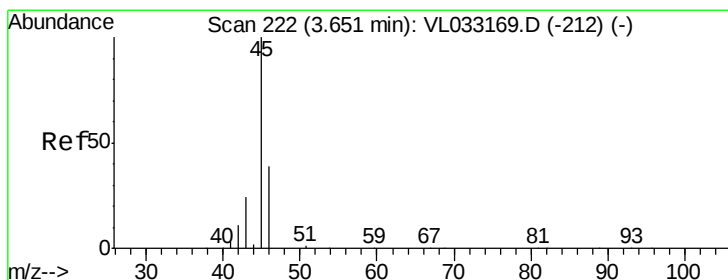
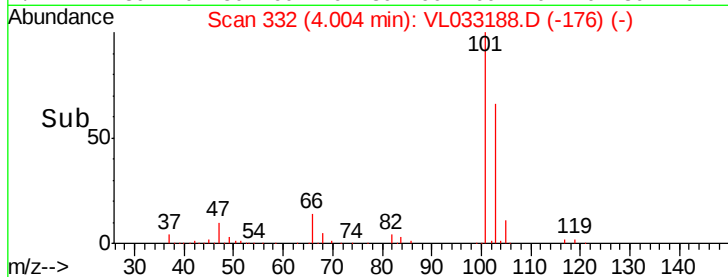
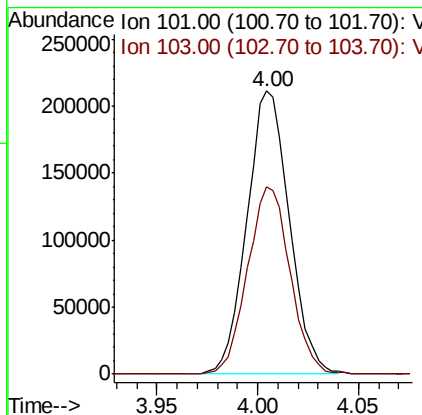
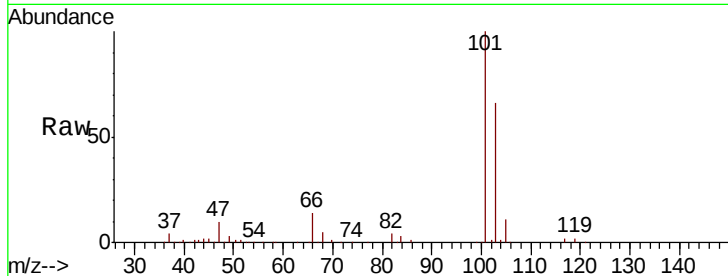
#11
 Trichlorofluoromethane
 Concen: 2.228 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033188.D
 Acq: 13 Feb 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IA

Tgt Ion: 101 Resp: 311229
 Ion Ratio Lower Upper
 101 100
 103 66.2 51.7 77.5

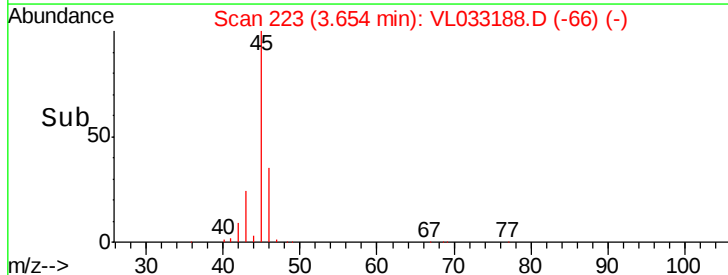
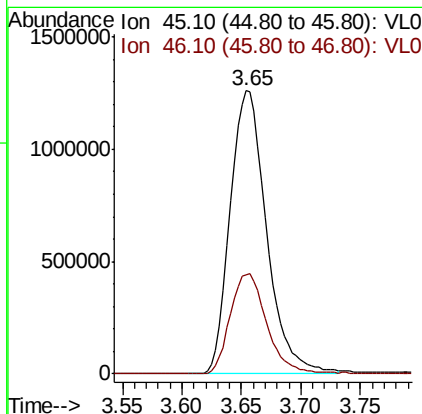
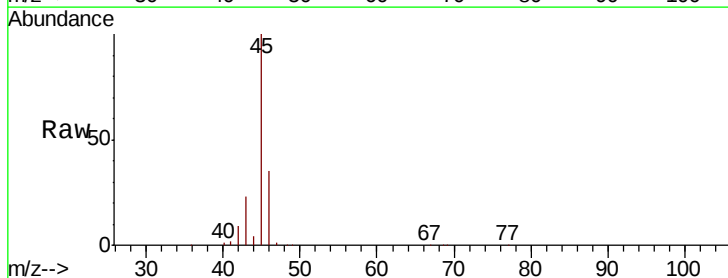
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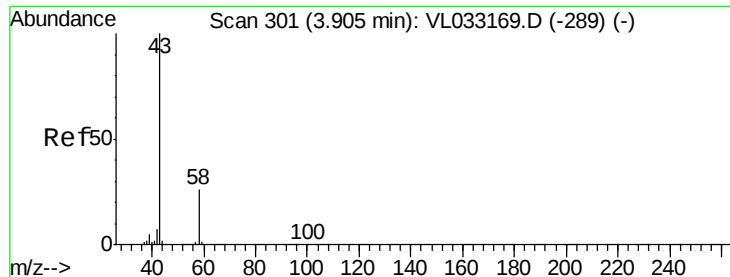
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#13
 Ethanol
 Concen: 150.013 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033188.D
 Acq: 13 Feb 2019 15:49

Tgt Ion: 45 Resp: 2676369
 Ion Ratio Lower Upper
 45 100
 46 36.0 15.0 60.2





#15

Acetone

Concen: 5.750 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033188.D

Acq: 13 Feb 2019 15:49

Instrument :

MSVOA_L

ClientSampled :

AB-IA

Tgt Ion: 43 Resp: 584691

Ion Ratio Lower Upper

43 100

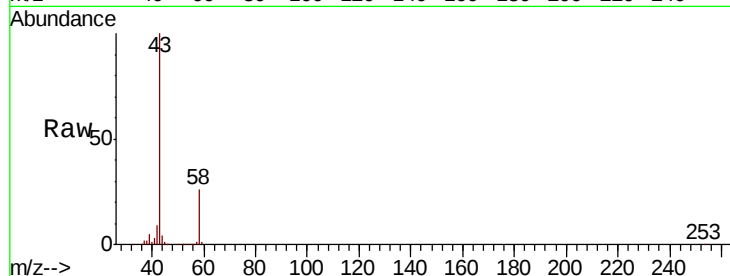
58 26.0 21.1 31.7

Manual Integrations

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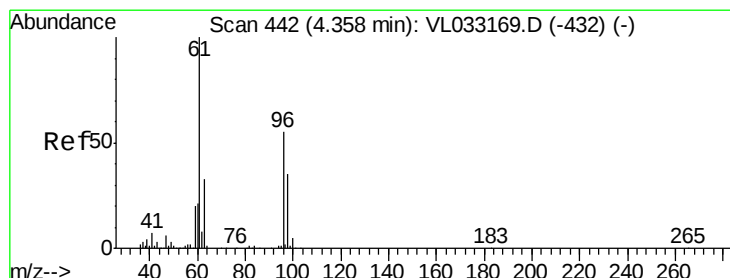
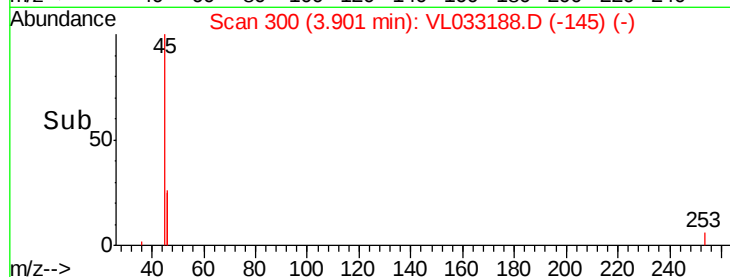
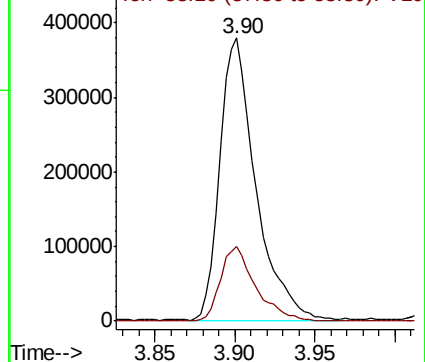
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.410 ppbv m

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033188.D

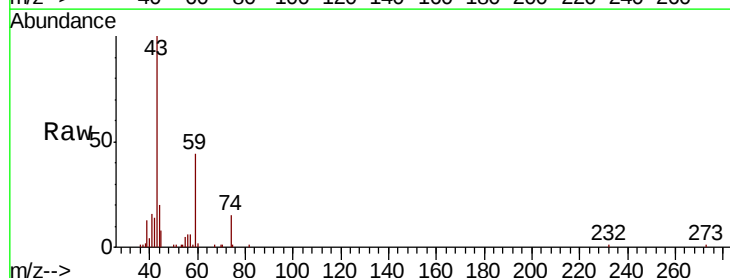
Acq: 13 Feb 2019 15:49

Tgt Ion: 59 Resp: 27533

Ion Ratio Lower Upper

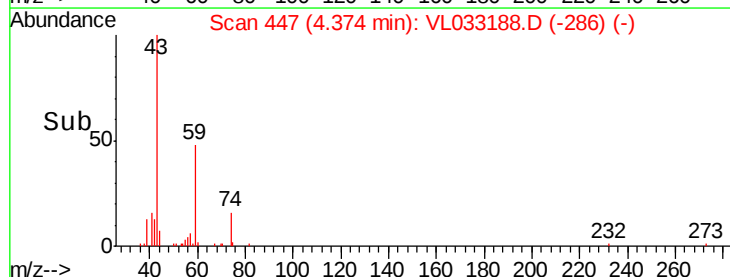
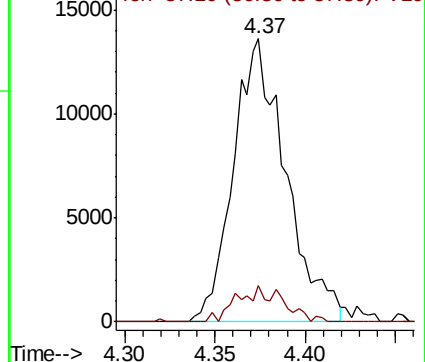
59 100

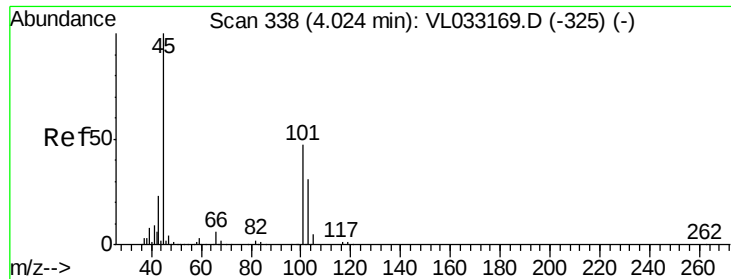
57 11.2 7.6 11.4



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





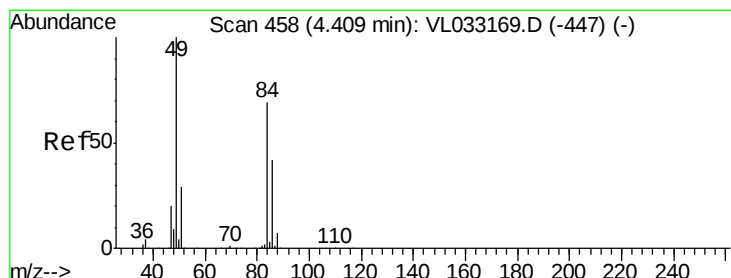
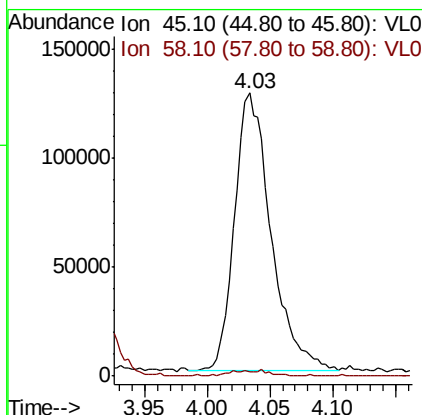
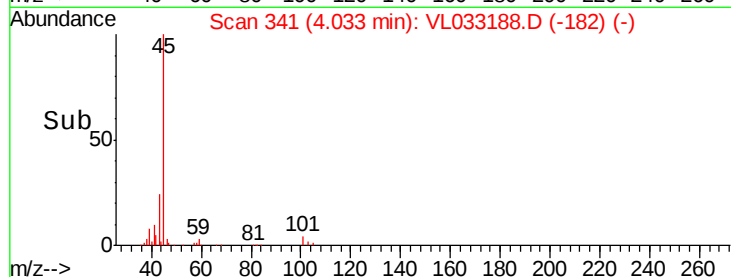
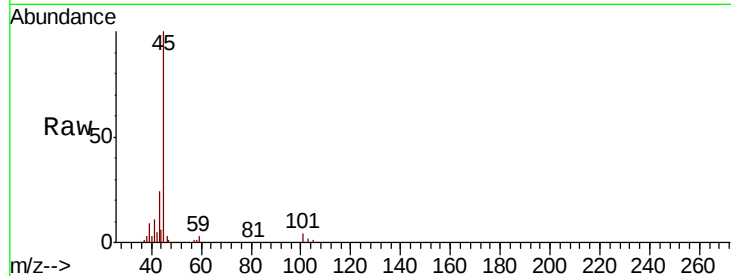
#19
Isopropyl Alcohol
Concen: 3.749 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
AB-IA

Tgt Ion: 45 Resp: 258582
Ion Ratio Lower Upper
45 100
58 2.8 1.5 2.3#

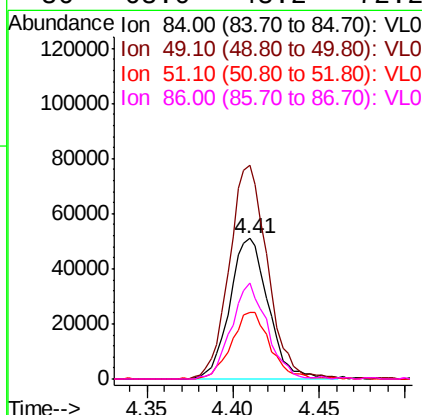
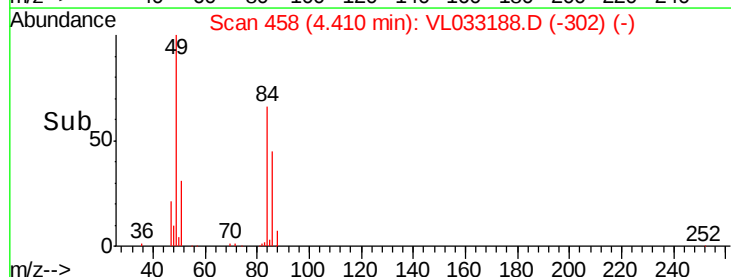
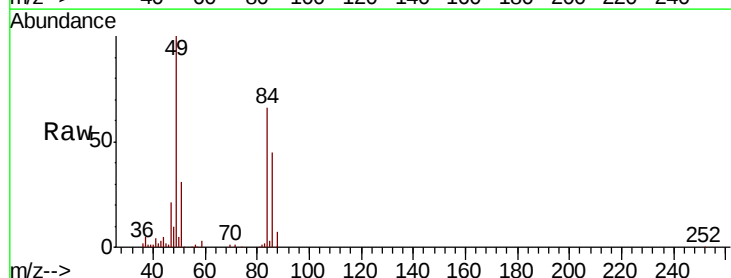
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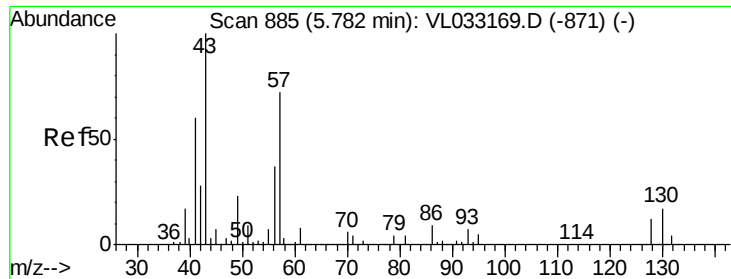
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#20
Methylene Chloride
Concen: 1.978 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Tgt Ion: 84 Resp: 79998
Ion Ratio Lower Upper
84 100
49 152.0 115.8 173.8
51 46.9 33.0 49.6
86 68.0 48.2 72.2





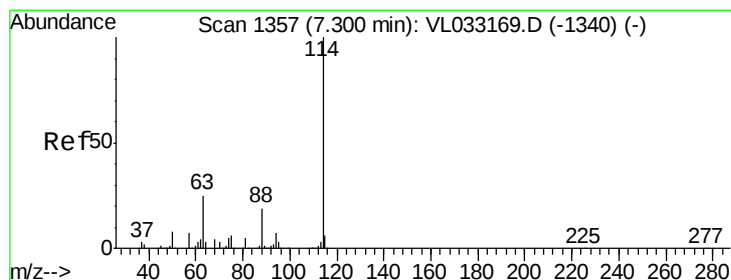
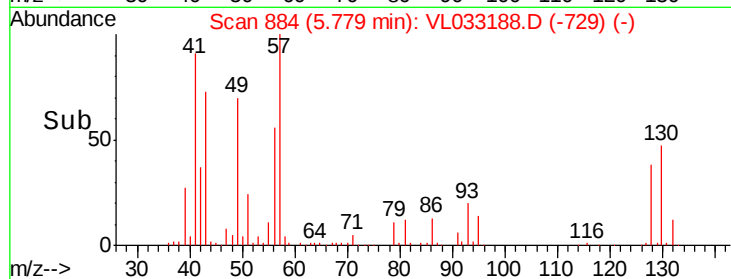
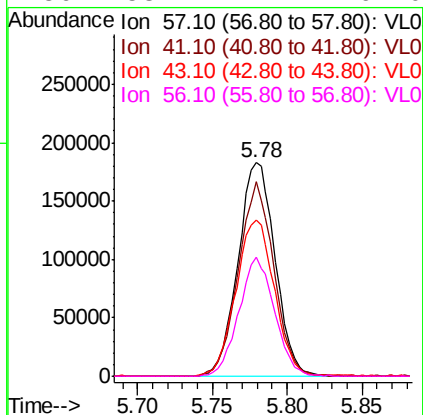
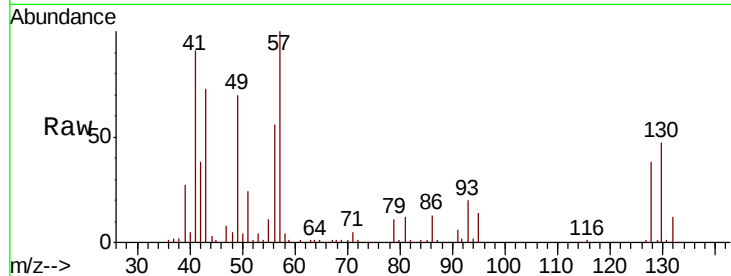
#26
Hexane
Concen: 2.936 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
AB-IA

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.3	69.4	104.2
43	76.9	176.7	265.1#
56	53.7	41.4	62.0

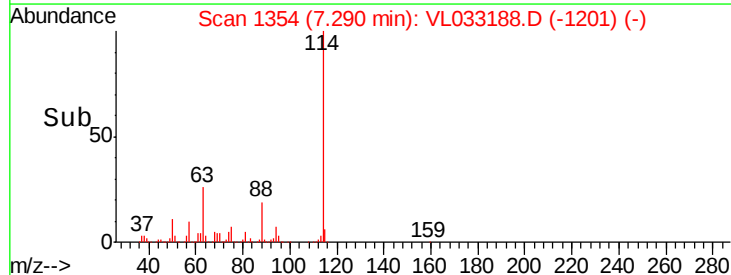
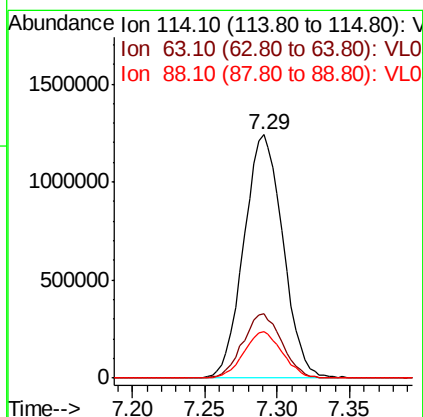
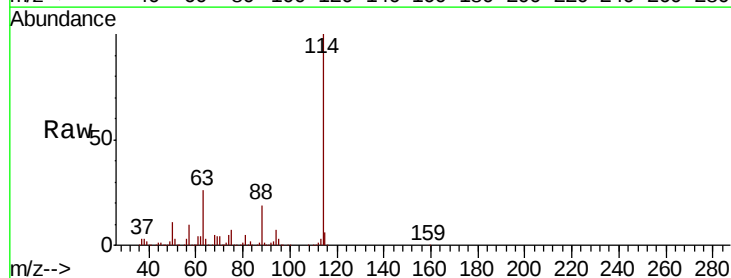
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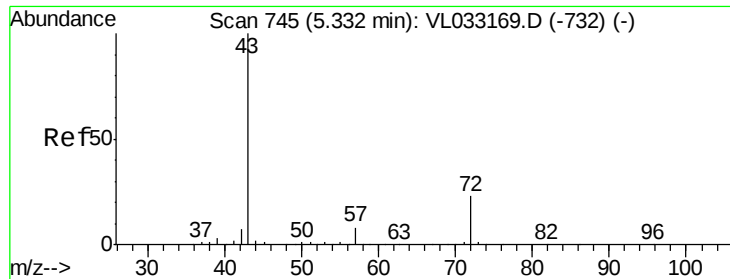
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.8	31.2
88	18.7	14.6	22.0





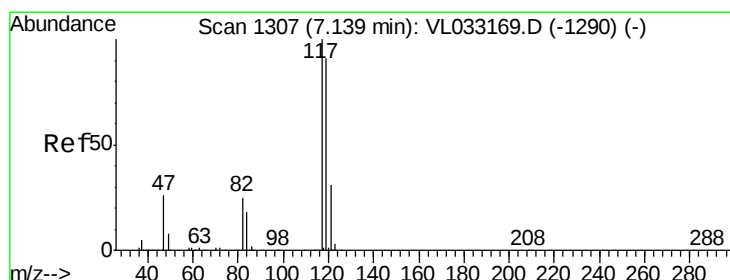
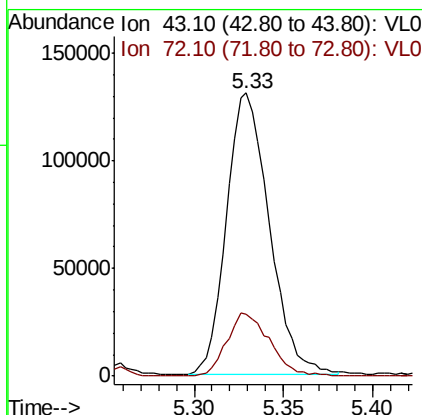
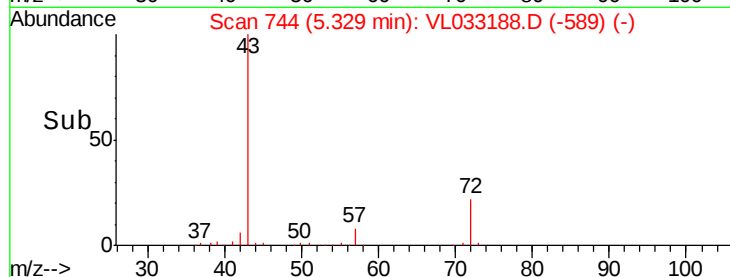
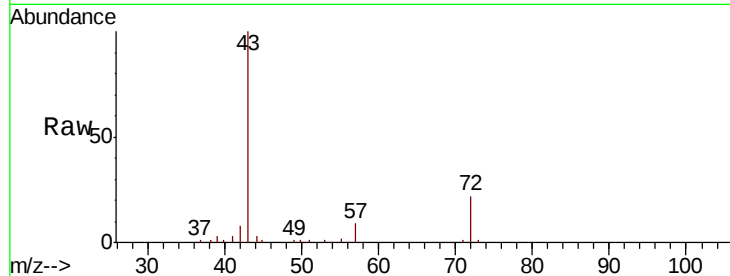
#34
2-Butanone
Concen: 1.477 ppbv
RT: 5.33 min Scan# 744
Delta R.T. -0.00 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
AB-IA

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.8	26.6

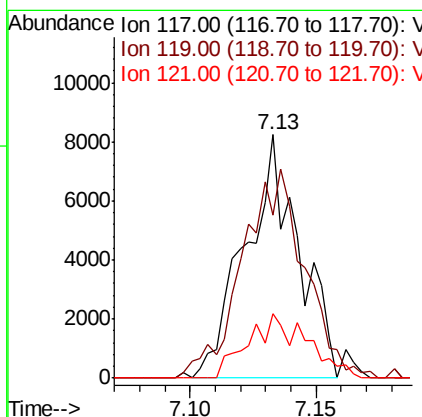
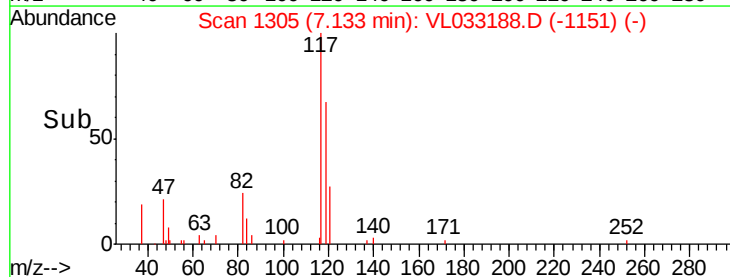
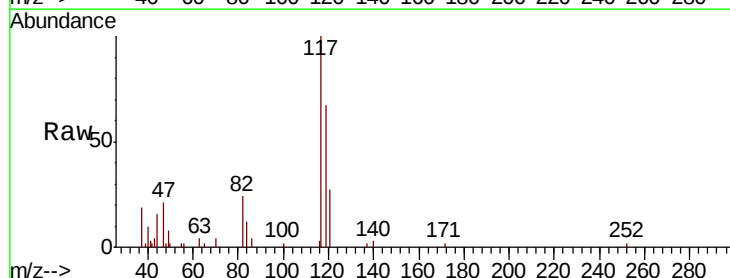
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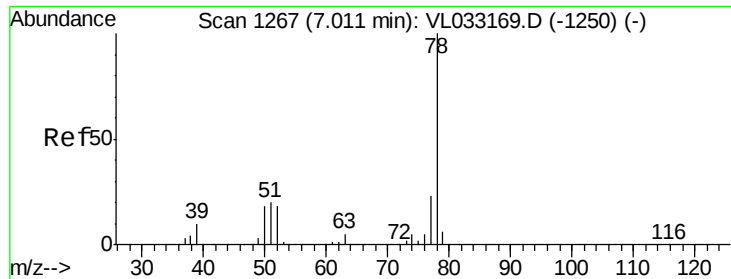
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#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	66.7	73.0	109.6#
121	26.6	25.1	37.7





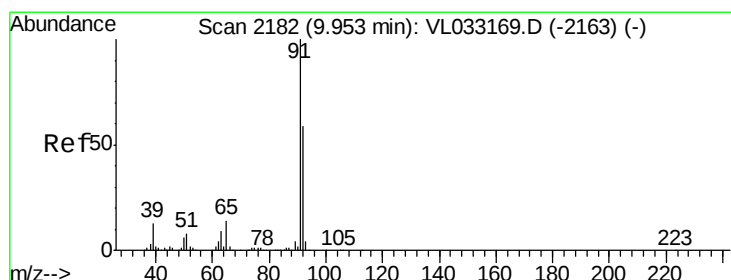
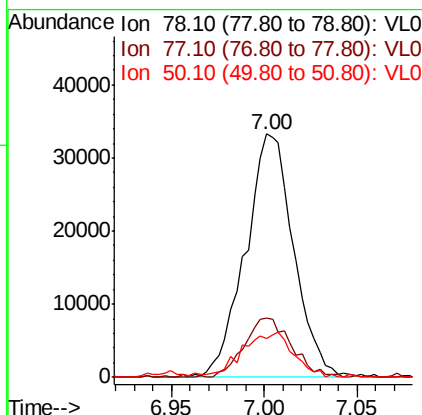
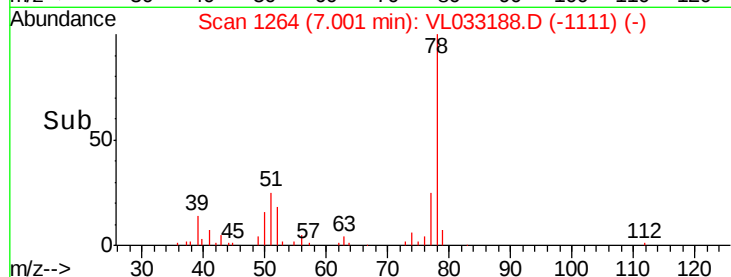
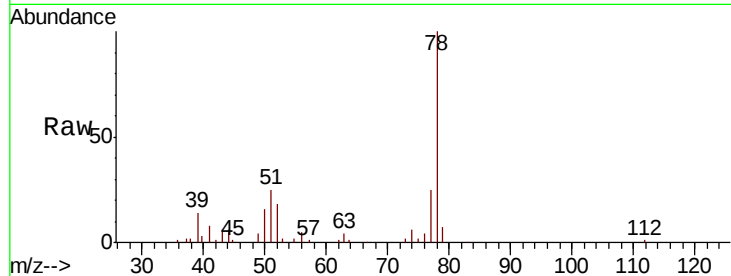
#36
Benzene
Concen: 0.256 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Instrument :
MSVOA_L
ClientSampled :
AB-IA

Tgt Ion: 78 Resp: 60333
Ion Ratio Lower Upper
78 100
77 24.6 18.0 27.0
50 15.8 14.2 21.2

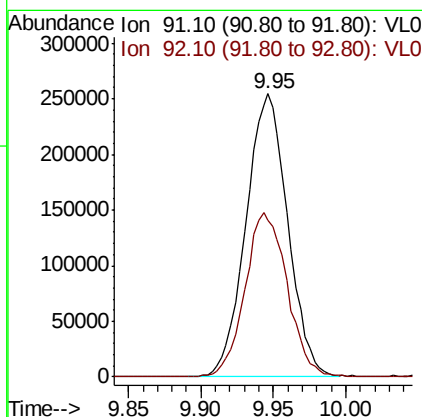
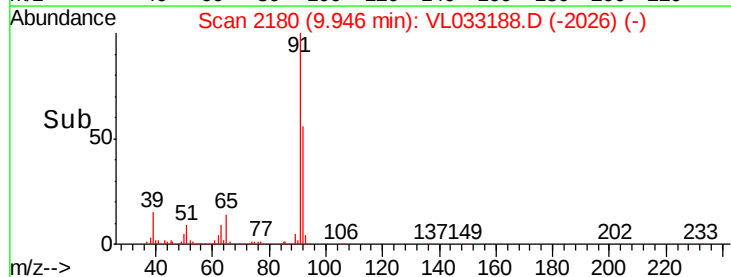
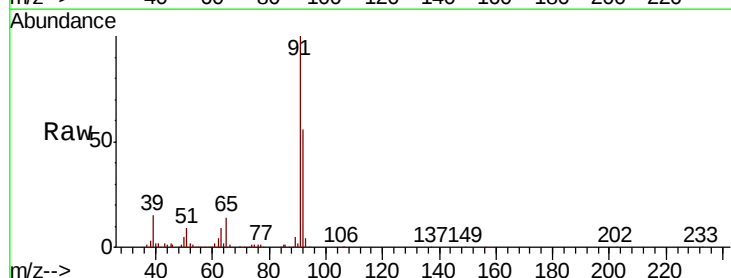
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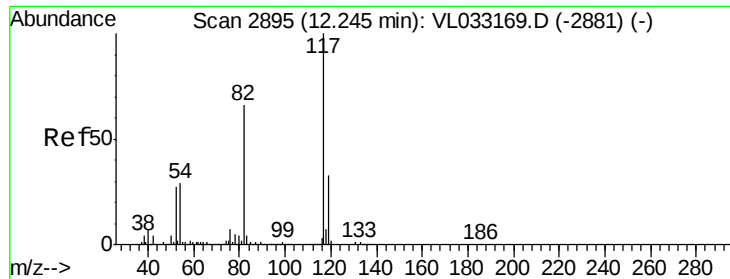
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#53
Toluene
Concen: 1.826 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Tgt Ion: 91 Resp: 510295
Ion Ratio Lower Upper
91 100
92 58.7 48.0 72.0





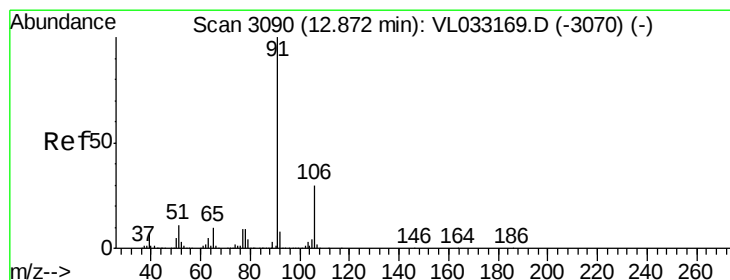
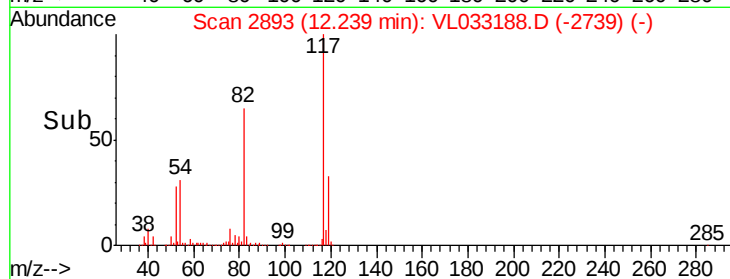
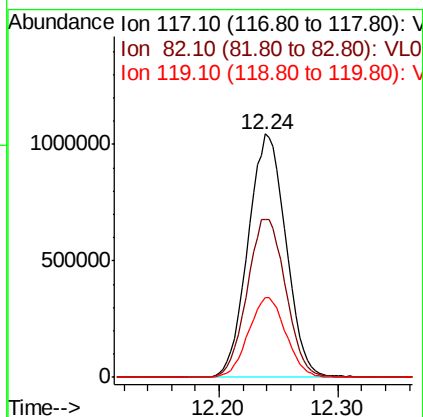
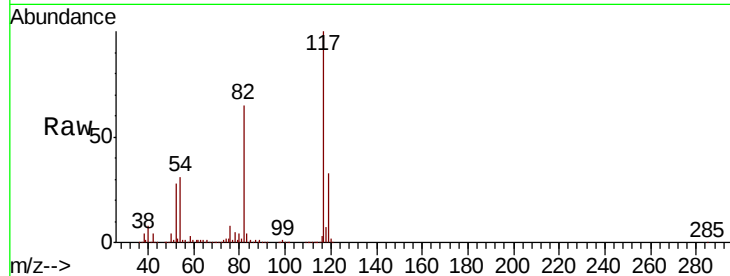
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
AB-IA

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.5	53.8	80.8
119	32.6	46.9	70.3#

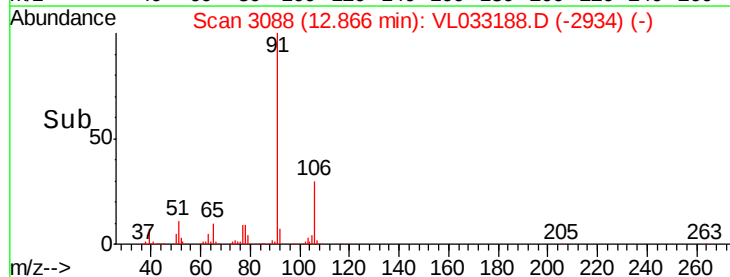
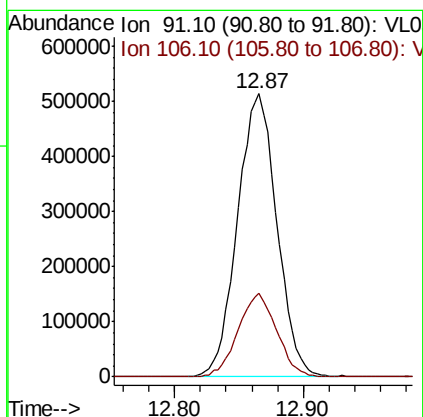
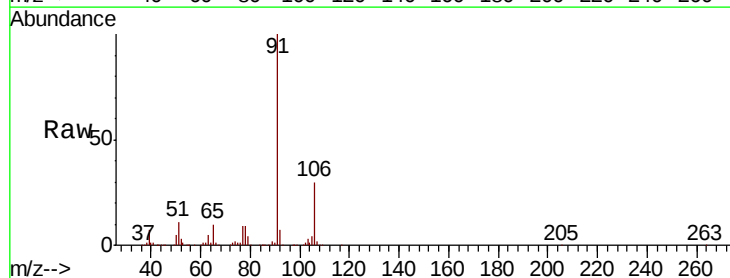
Manual Integrations
APPROVED

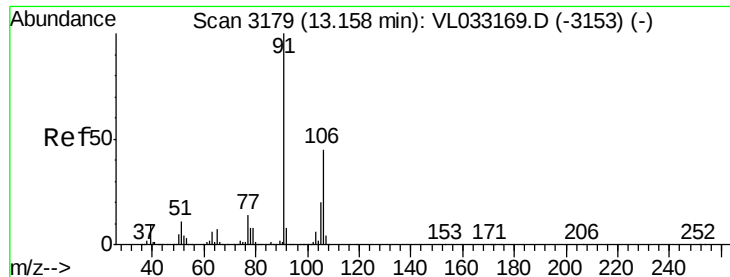
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#58
Ethyl Benzene
Concen: 2.890 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.8	35.8





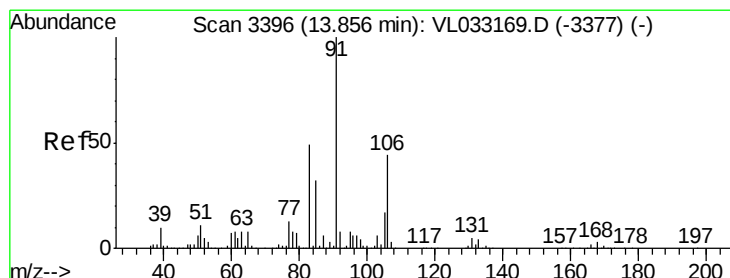
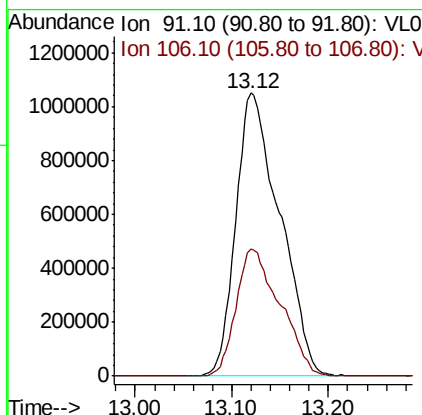
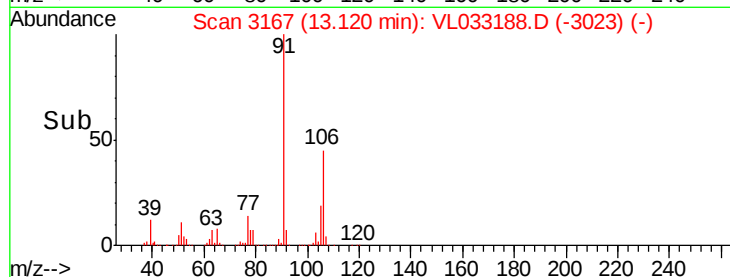
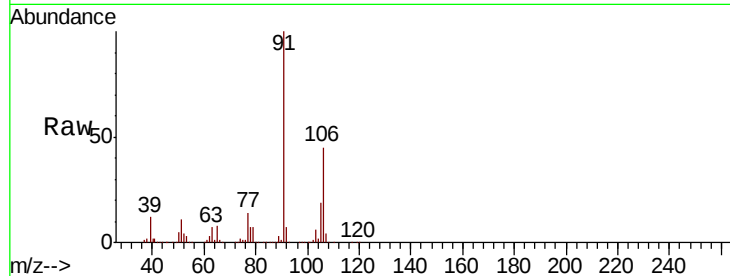
#59
m/p-Xylene
Concen: 10.561 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Instrument :
MSVOA_L
ClientSampleId :
AB-IA

Tgt Ion: 91 Resp: 3317707
Ion Ratio Lower Upper
91 100
106 45.1 36.6 55.0

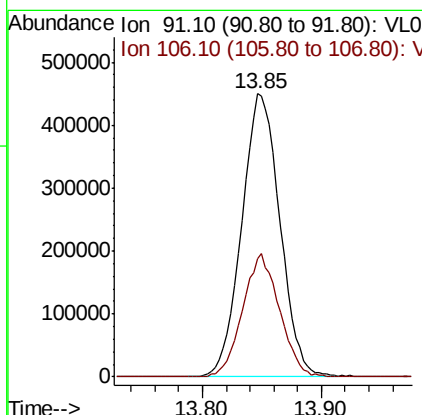
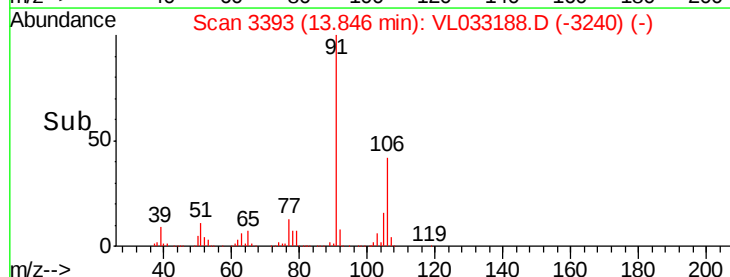
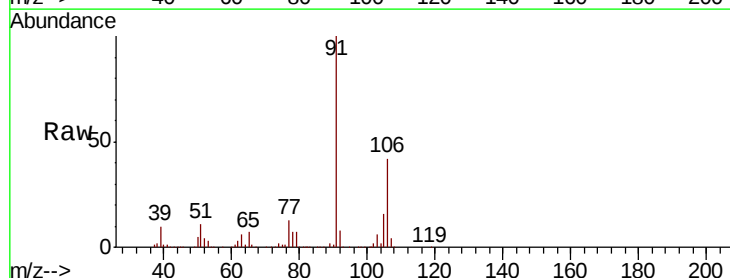
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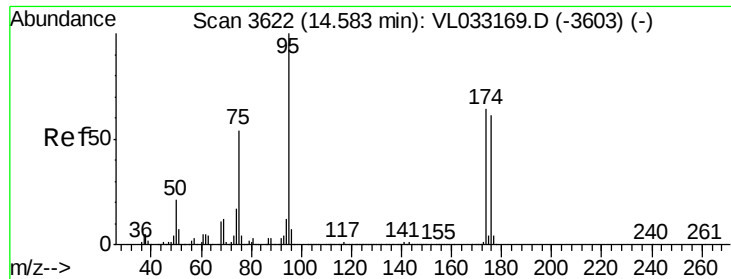
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#60
o-Xylene
Concen: 3.248 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033188.D
Acq: 13 Feb 2019 15:49

Tgt Ion: 91 Resp: 995155
Ion Ratio Lower Upper
91 100
106 42.4 21.8 65.3





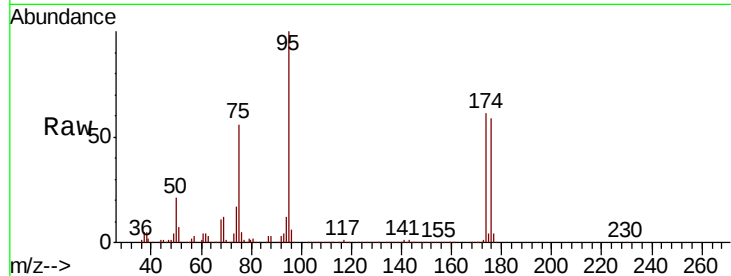
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.233 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033188.D
 Acq: 13 Feb 2019 15:49

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IA

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.1	51.1	76.7
175	4.5	3.8	5.6

Manual Integrations
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Abundance

Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

