

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062521.D
 Acq On : 13 May 2019 1:04
 Operator : FY/SY
 Sample : K2756-02RE
 Misc : 5.82g/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS005-0206-01

Quant Time: May 13 04:50:56 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	292212	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	411430	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	322547	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	169119	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	115840	41.95	ug/l	0.03
Spiked Amount 50.000			Recovery	=	83.90%	
35) Dibromofluoromethane	4.33	113	143730	43.85	ug/l	0.03
Spiked Amount 50.000			Recovery	=	87.70%	
50) Toluene-d8	7.73	98	298436	37.61	ug/l	0.03
Spiked Amount 50.000			Recovery	=	75.22%	
62) 4-Bromofluorobenzene	11.51	95	117585	32.85	ug/l	0.02
Spiked Amount 50.000			Recovery	=	65.70%	

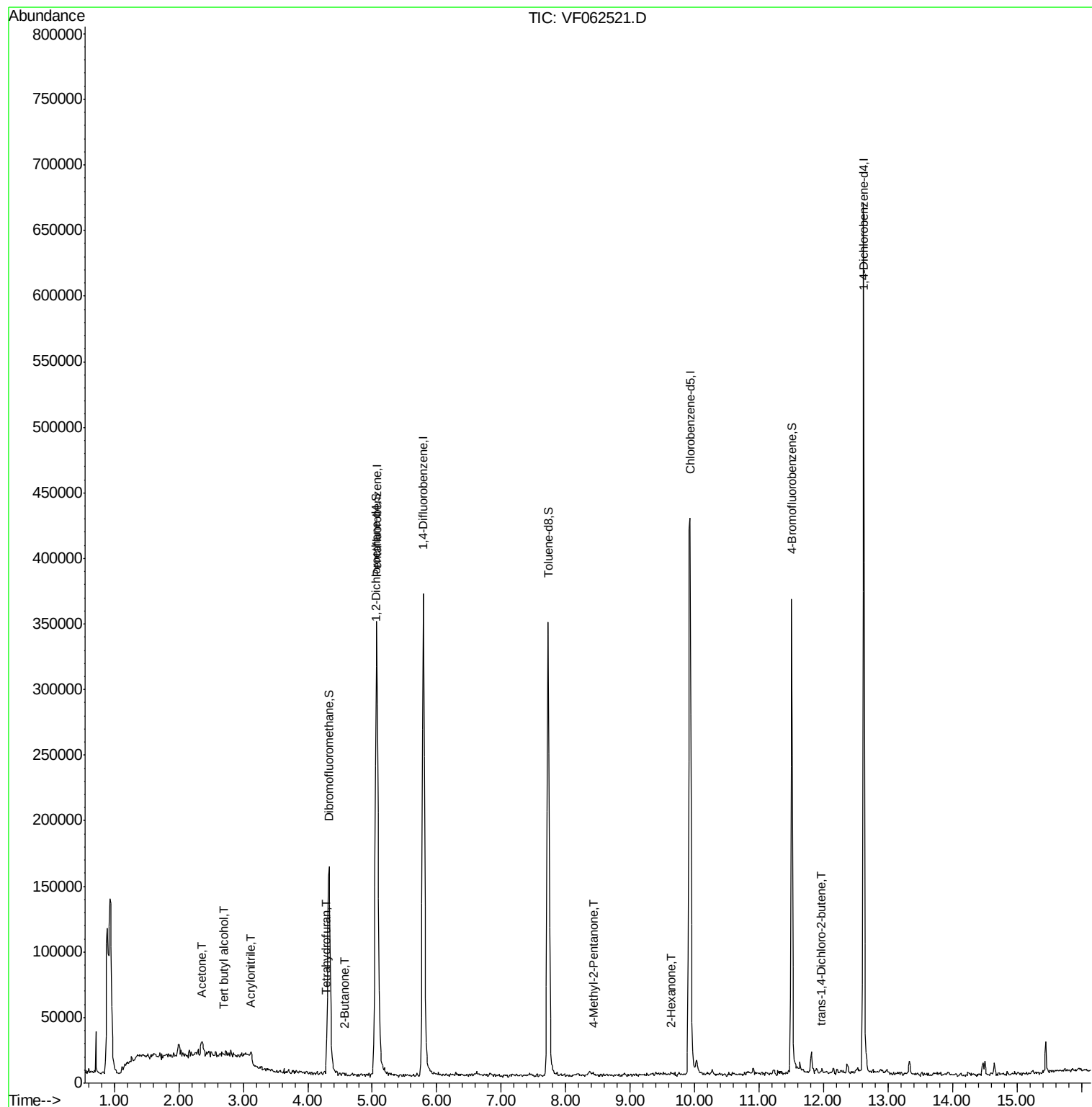
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	1340	Below Cal	#	62
11) Tert butyl alcohol	2.70	59	775	4.966	ug/l #	1
13) Acrolein	2.09	56	323	Below Cal	#	1
15) Acrylonitrile	3.11	53	388	1.312	ug/l #	1
16) Acetone	2.36	43	16017	28.672	ug/l	100
18) Methyl Acetate	2.46	43	1773	Below Cal	#	88
25) 2-Butanone	4.56	43	1717	2.446	ug/l #	60
29) Tetrahydrofuran	4.28	42	600	1.860	ug/l #	55
37) Ethyl Acetate	4.34	43	1535	Below Cal	#	91
38) Carbon Tetrachloride	4.15	117	64	Below Cal	#	14
49) 1,4-Dioxane	6.90	88	60	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.42	43	1429	1.173	ug/l #	58
59) 2-Hexanone	9.63	43	1638	1.944	ug/l	65
81) trans-1,4-Dichloro-2-buten	11.96	75	542	1.204	ug/l #	5

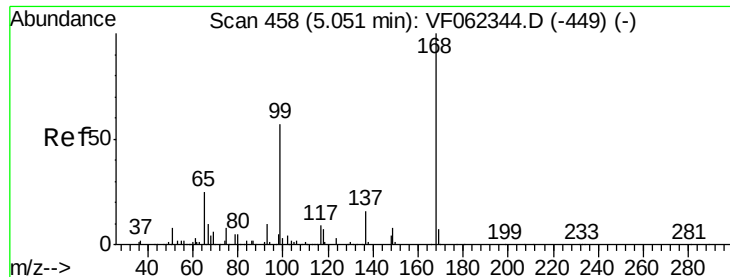
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062521.D

Acq: 13 May 2019 1:04

Instrument :

MSVOA_F

ClientSampleId :

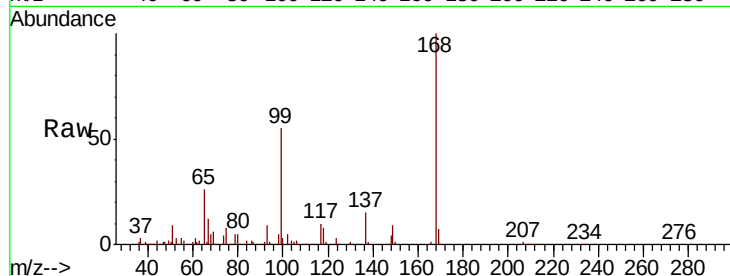
P021-SS005-0206-01

Tot Ion:168 Resp: 292212

Ion Ratio Lower Upper

168 100

99 55.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

100000

80000

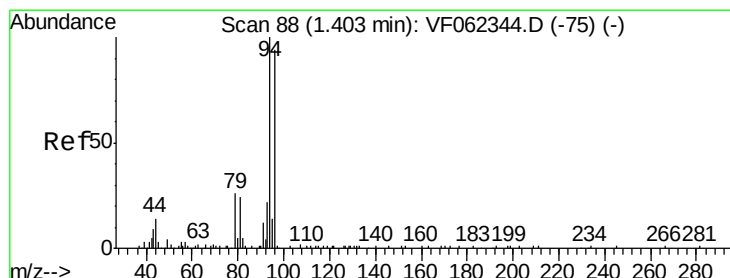
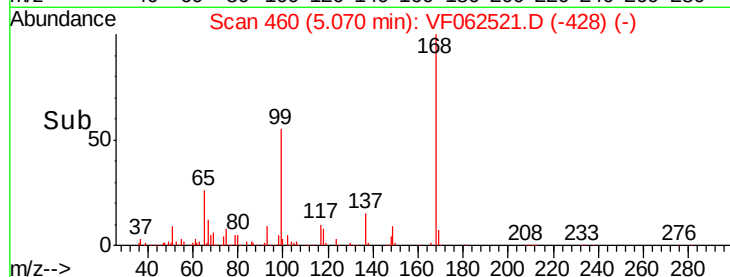
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062521.D

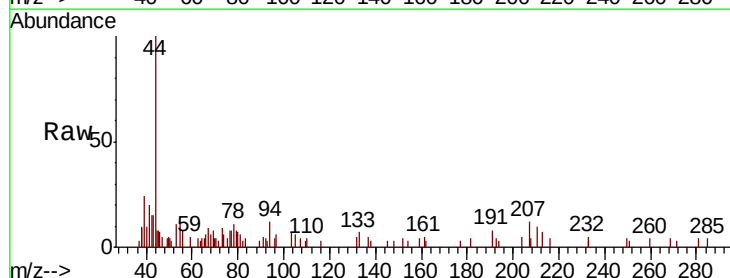
Acq: 13 May 2019 1:04

Tgt Ion: 94 Resp: 1340

Ion Ratio Lower Upper

94 100

96 57.8 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

600

500

400

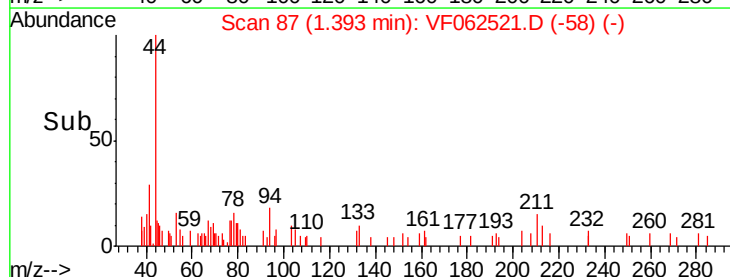
300

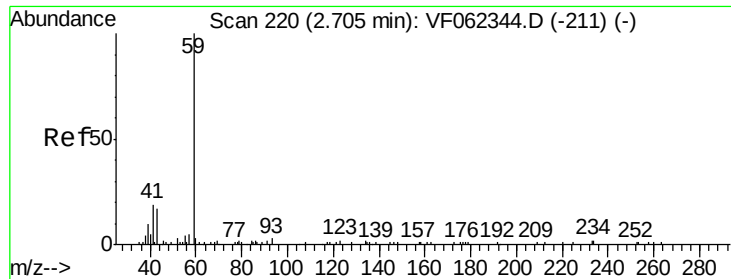
200

100

0

Time--> 1.30 1.35 1.40 1.45

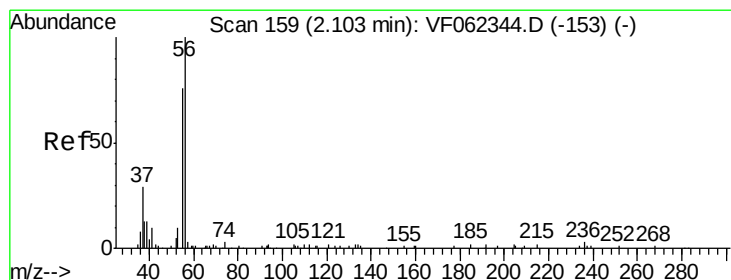
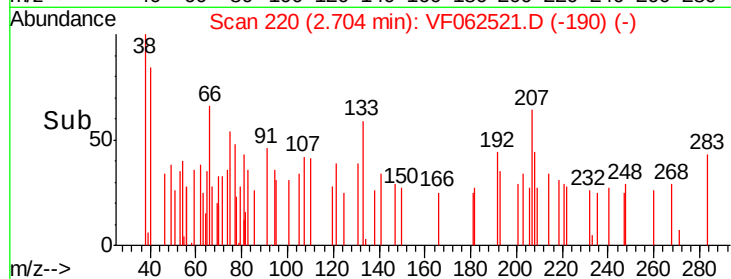
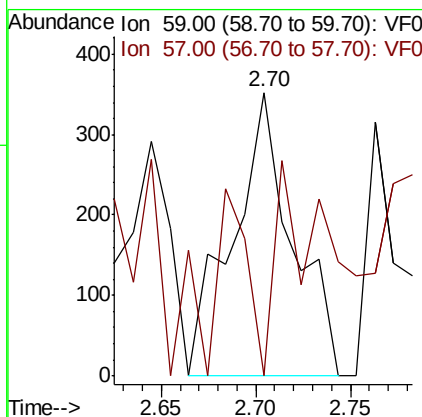
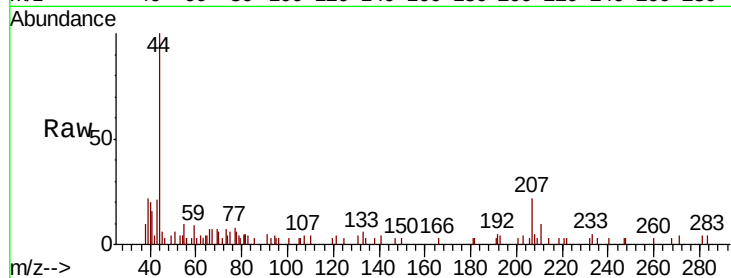




#11
Tert butyl alcohol
Concen: 4.966 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.00 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

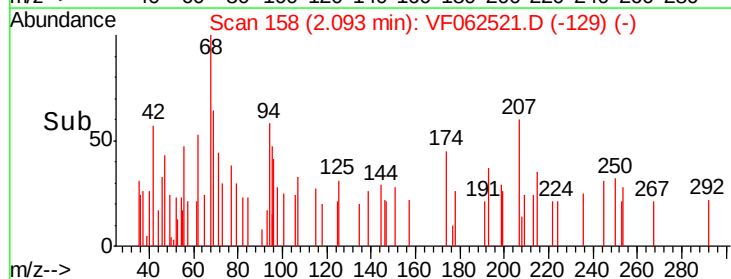
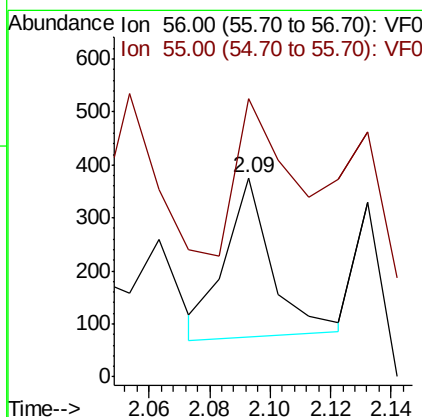
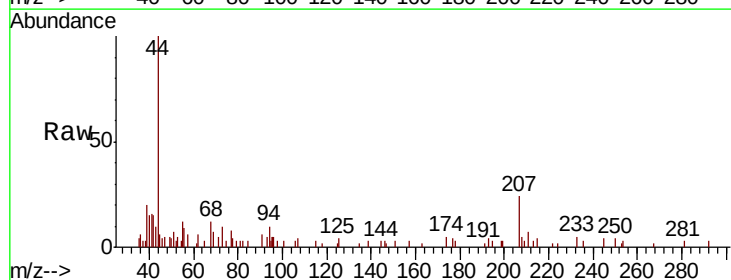
Instrument :
MSVOA_F
ClientSampleId :
P021-SS005-0206-01

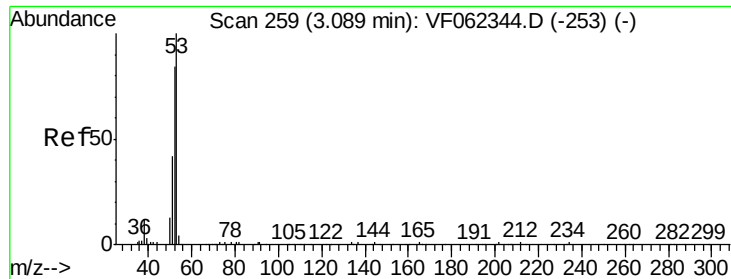
Tot Ion: 59 Resp: 775
Ion Ratio Lower Upper
59 100
57 66.3 9.3 13.9#



#13
Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Tgt Ion: 56 Resp: 323
Ion Ratio Lower Upper
56 100
55 215.2 58.4 87.6#





#15

Acrylonitrile

Concen: 1.312 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF062521.D

Acq: 13 May 2019 1:04

Instrument :

MSVOA_F

ClientSampleId :

P021-SS005-0206-01

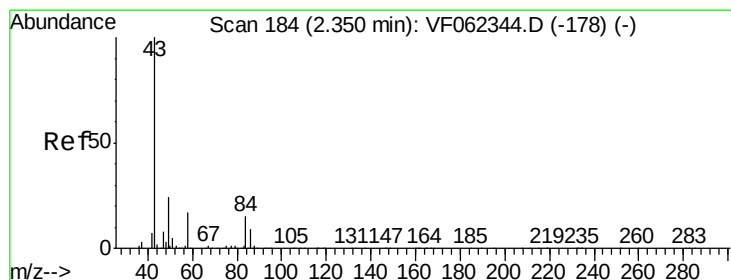
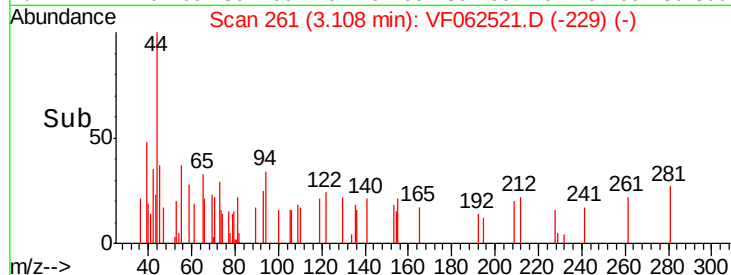
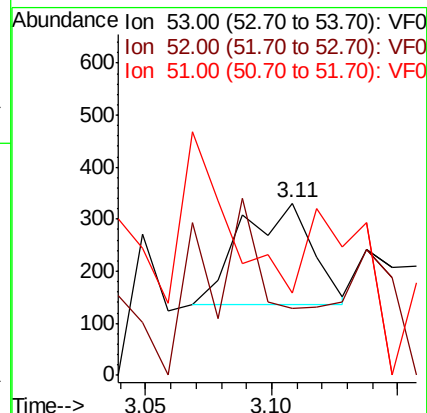
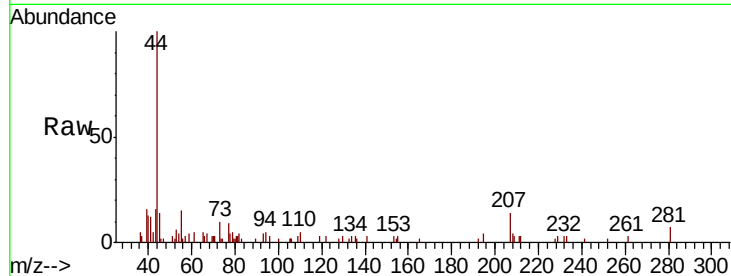
Tot Ion: 53 Resp: 388

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 158.2 40.6 61.0#



#16

Acetone

Concen: 28.672 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062521.D

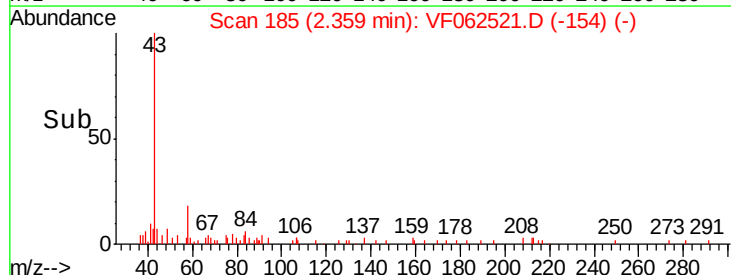
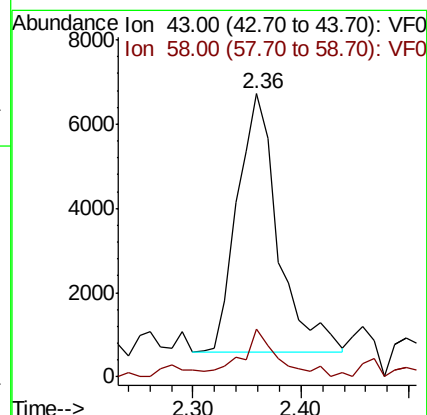
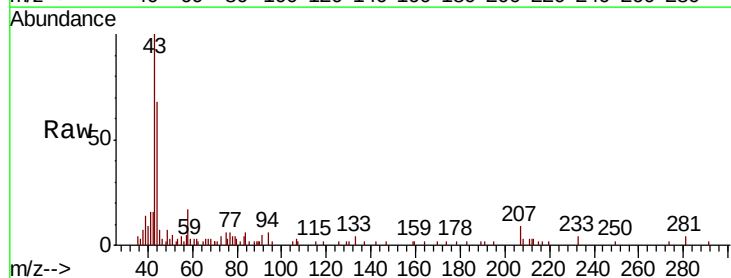
Acq: 13 May 2019 1:04

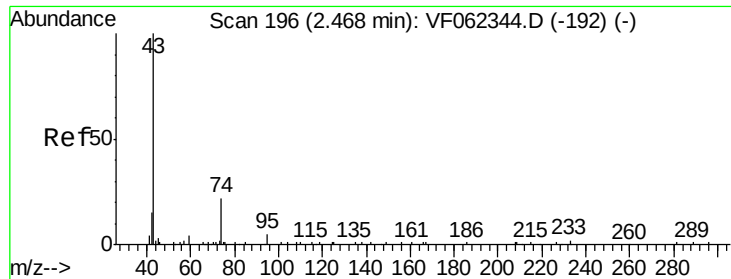
Tgt Ion: 43 Resp: 16017

Ion Ratio Lower Upper

43 100

58 16.6 13.1 19.7

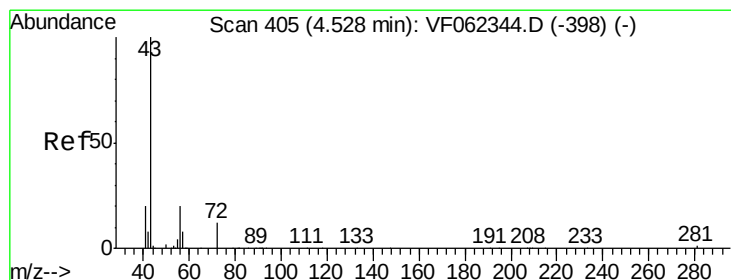
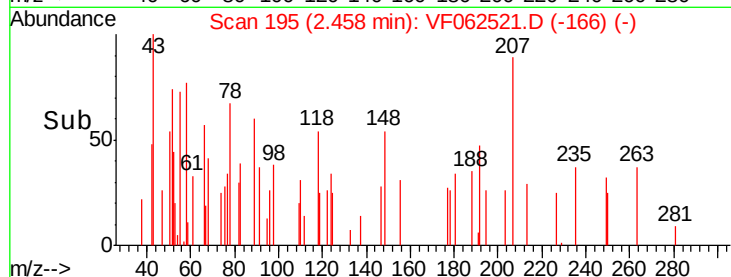
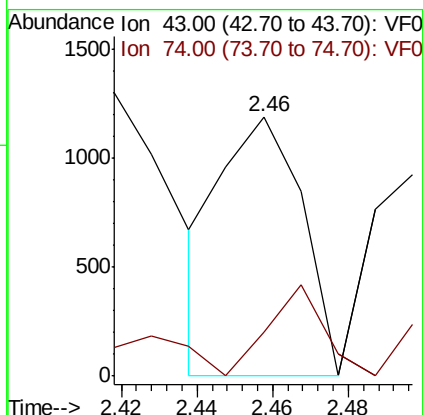
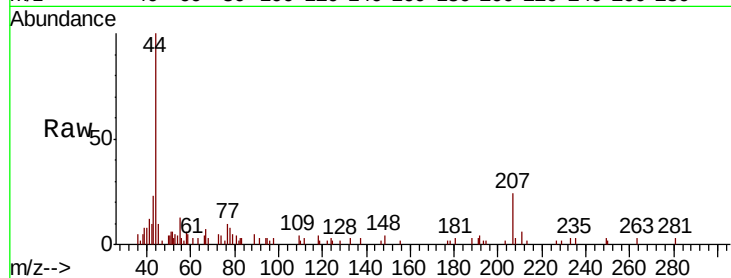




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

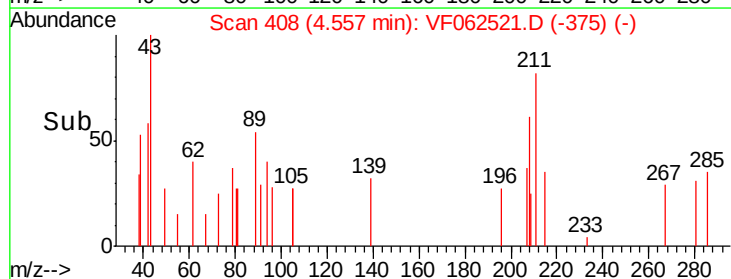
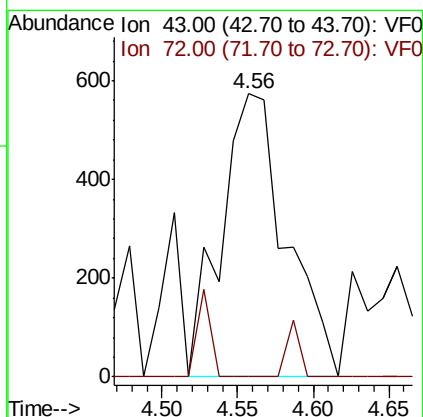
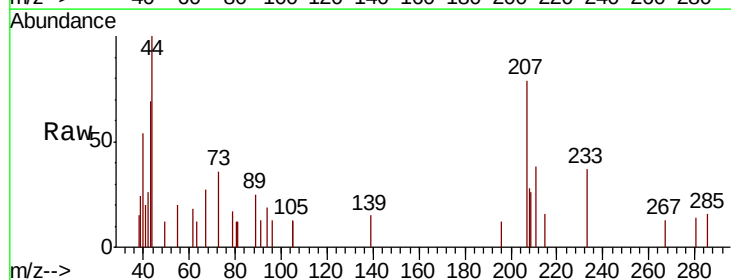
Instrument :
MSVOA_F
ClientSampleId :
P021-SS005-0206-01

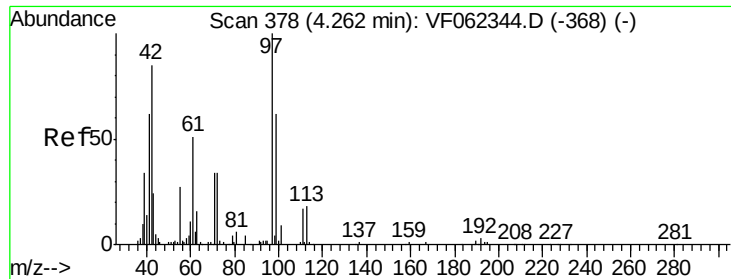
Tot Ion: 43 Resp: 1773
Ion Ratio Lower Upper
43 100
74 24.3 15.0 22.4#



#25
2-Butanone
Concen: 2.446 ug/l
RT: 4.56 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Tgt Ion: 43 Resp: 1717
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 1.860 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062521.D

Acq: 13 May 2019 1:04

Instrument :

MSVOA_F

ClientSampleId :

P021-SS005-0206-01

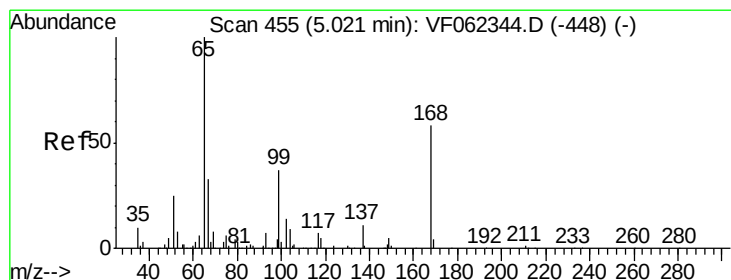
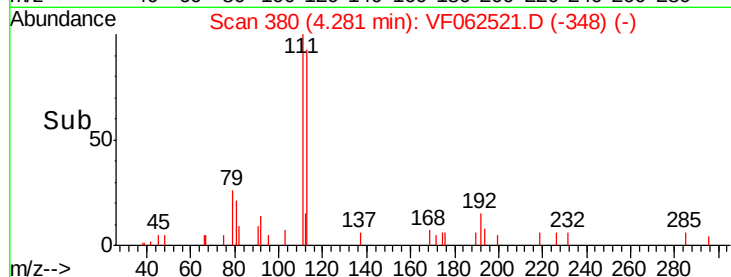
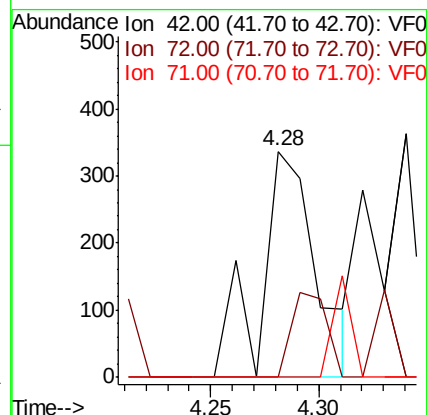
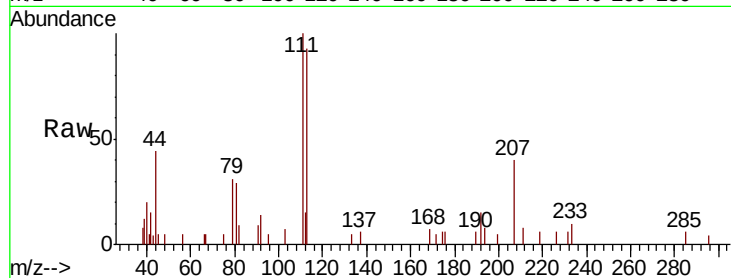
Tot Ion: 42 Resp: 600

Ion Ratio Lower Upper

42 100

72 24.0 31.4 47.0#

71 0.0 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 41.948 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062521.D

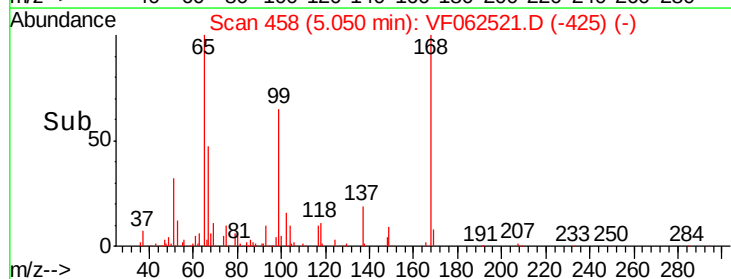
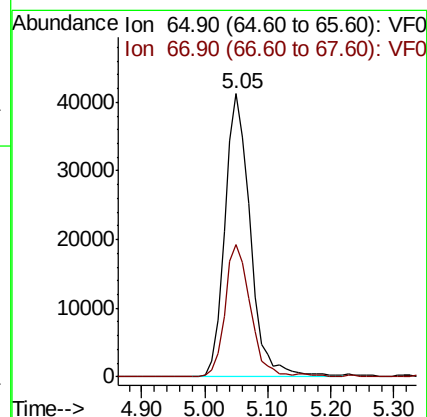
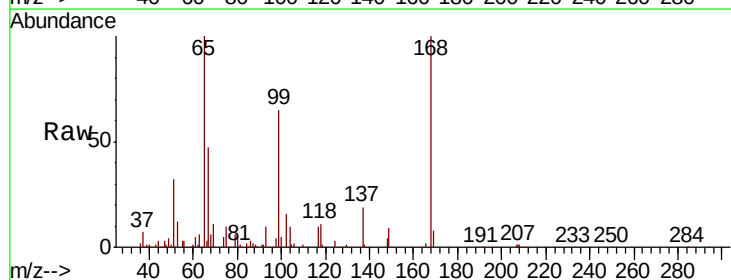
Acq: 13 May 2019 1:04

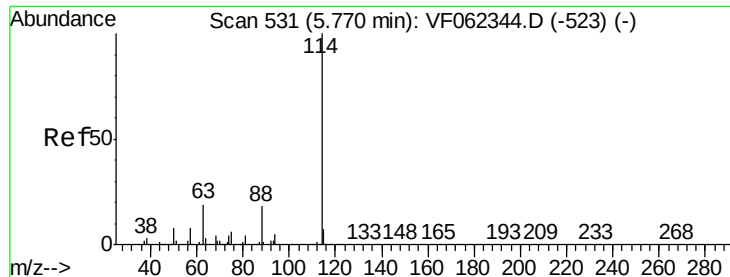
Tgt Ion: 65 Resp: 115840

Ion Ratio Lower Upper

65 100

67 47.1 0.0 85.8

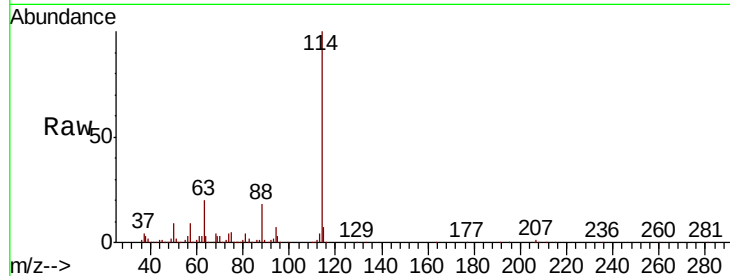




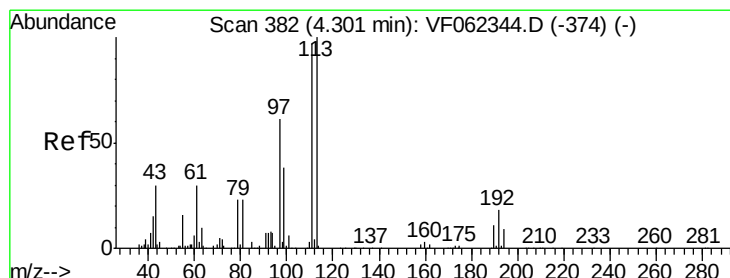
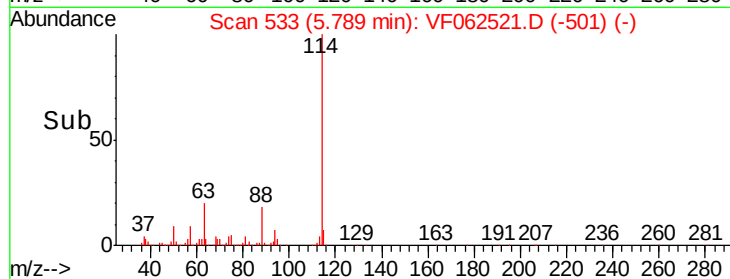
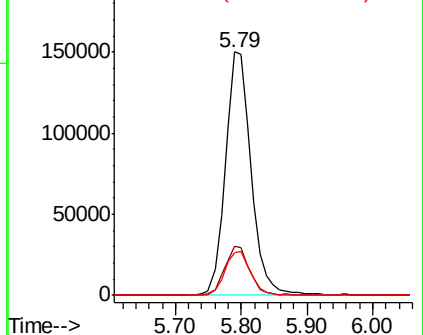
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062521.D
 Acq: 13 May 2019 1:04

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS005-0206-01

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	37.4
88	17.7	0.0	36.4

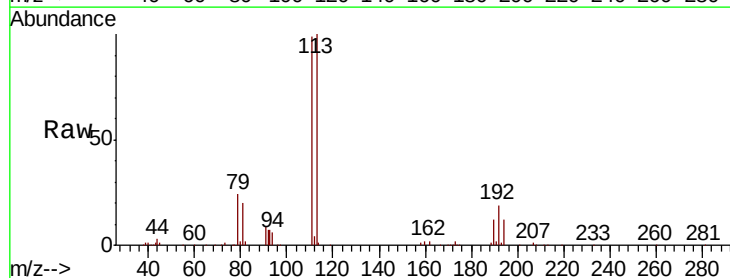


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 87.90 (87.60 to 88.60): VF0

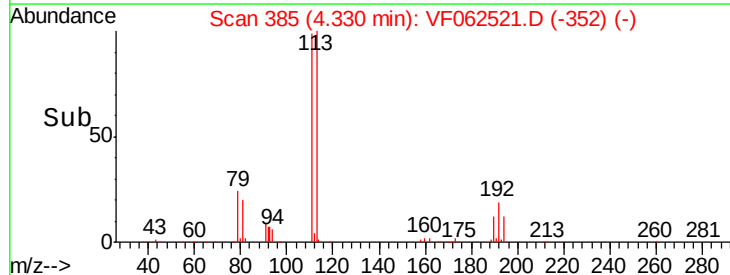
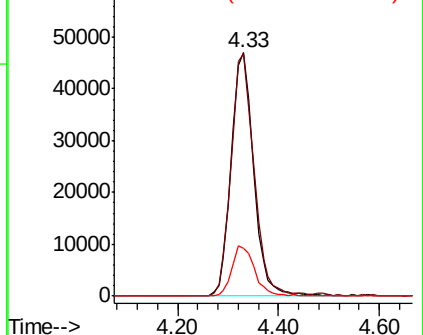


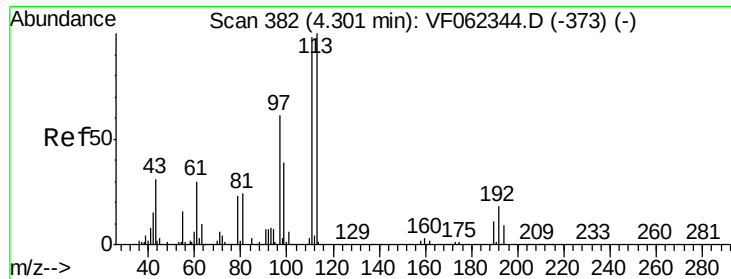
#35
 Dibromofluoromethane
 Concen: 43.850 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062521.D
 Acq: 13 May 2019 1:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	79.4	119.0
192	20.6	16.0	24.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

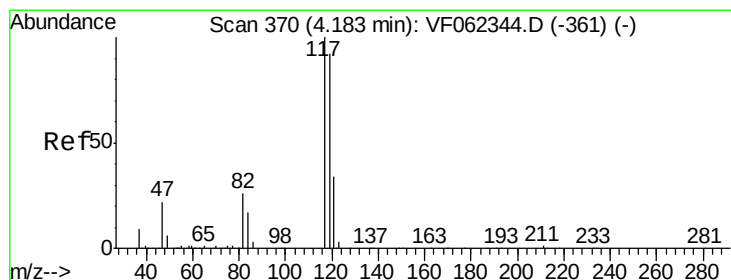
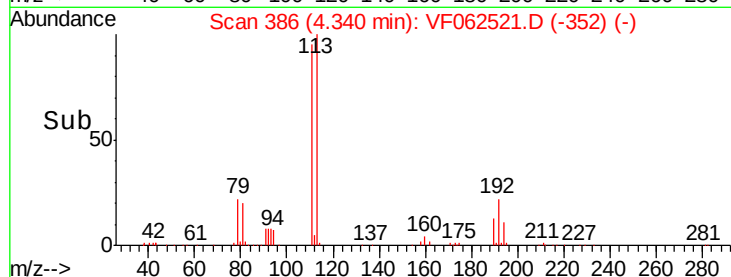
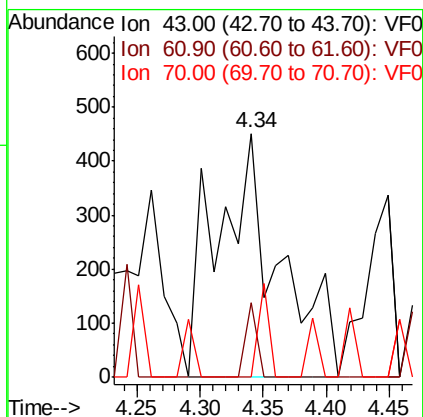
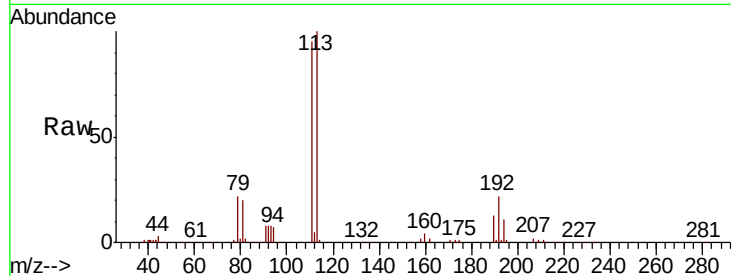




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 386
Delta R.T. 0.04 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

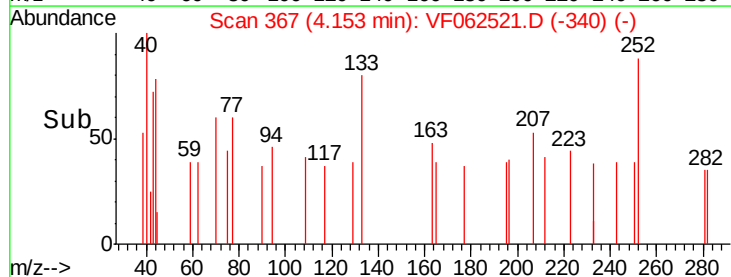
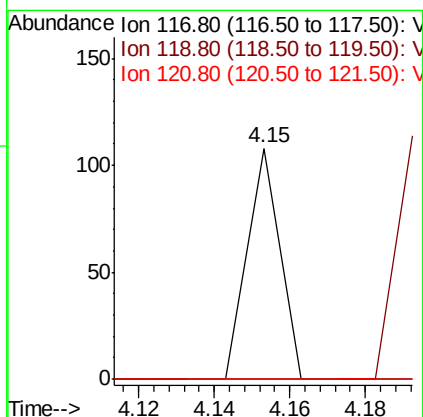
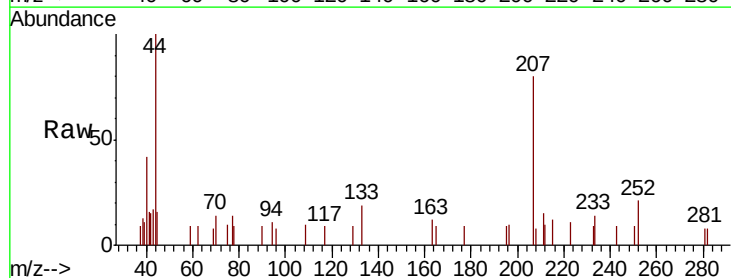
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P021-SS005-0206-01

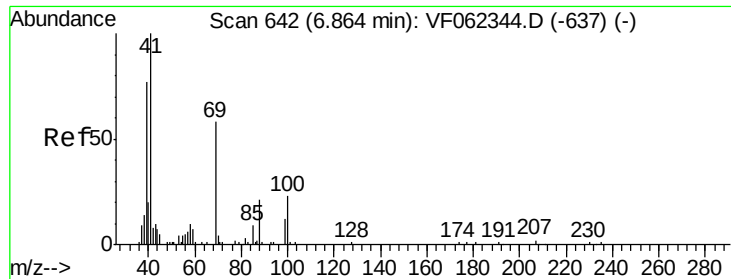
Tot Ion: 43 Resp: 1535
Ion Ratio Lower Upper
43 100
61 5.3 0.0 0.0#
70 6.7 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.15 min Scan# 367
Delta R.T. -0.03 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Tgt Ion: 117 Resp: 64
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

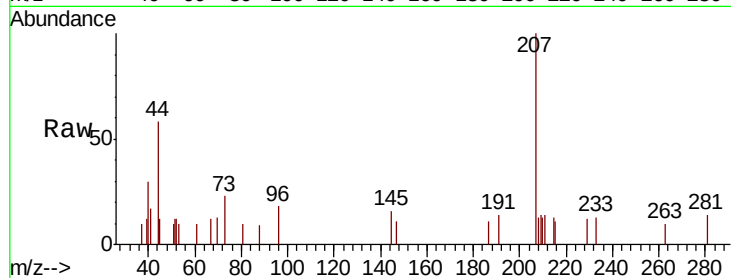




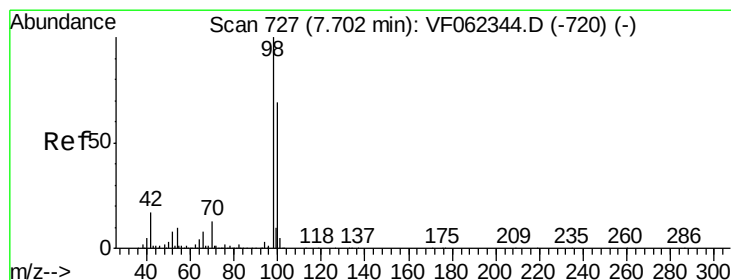
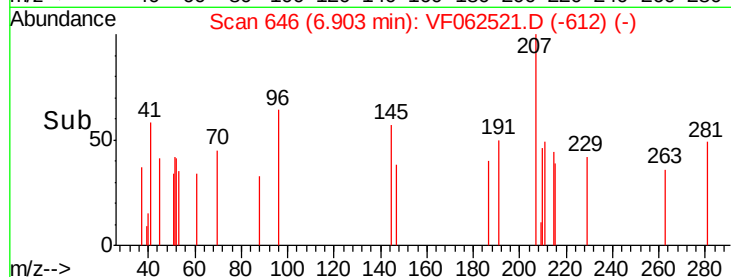
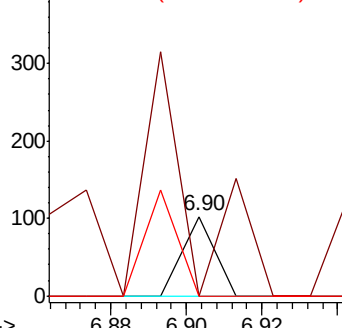
#49
1,4-Dioxane
Concen: Below Cal
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Instrument :
MSVOA_F
ClientSampleId :
P021-SS005-0206-01

Tot Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 460.0 55.6 83.4#
58 133.3 52.8 79.2#

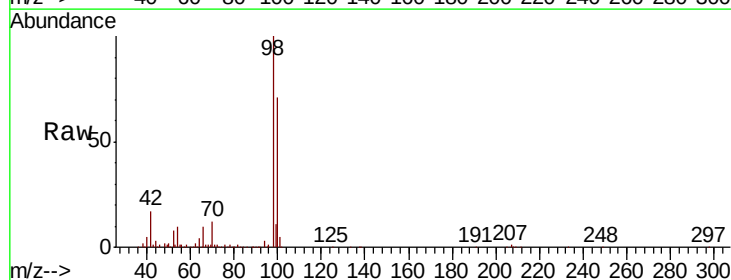


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

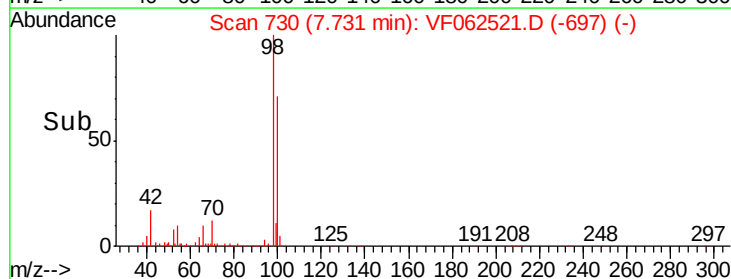
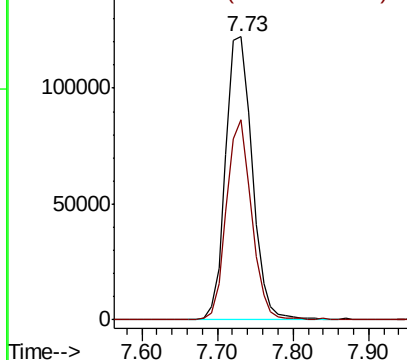


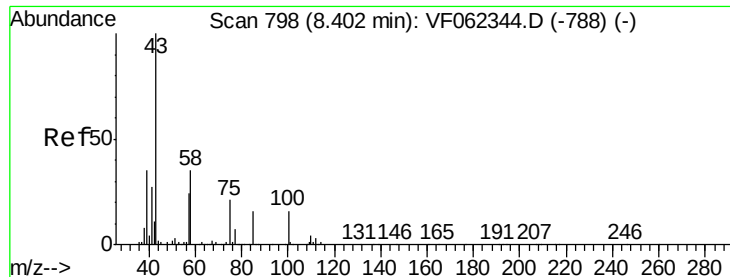
#50
Toluene-d8
Concen: 37.613 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Tgt Ion: 98 Resp: 298436
Ion Ratio Lower Upper
98 100
100 66.5 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.173 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062521.D

Acq: 13 May 2019 1:04

Instrument :

MSVOA_F

ClientSampleId :

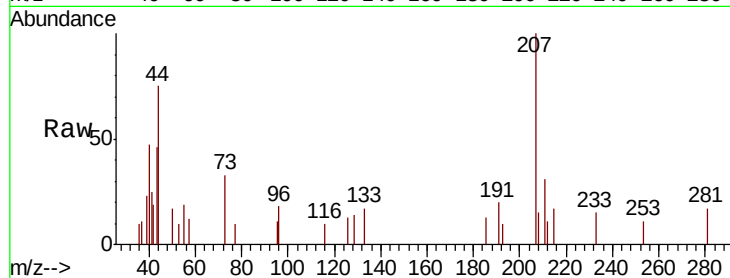
P021-SS005-0206-01

Tot Ion: 43 Resp: 1429

Ion Ratio Lower Upper

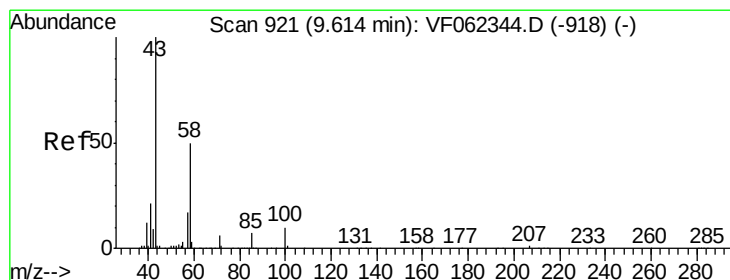
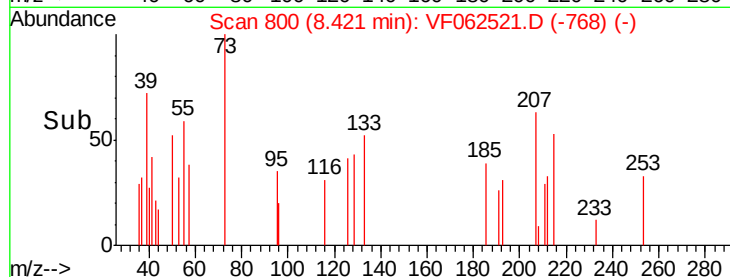
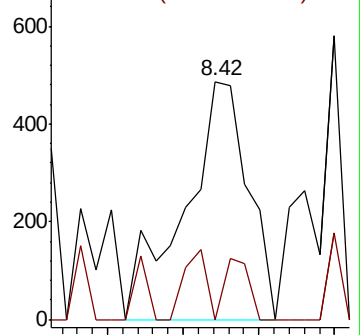
43 100

58 10.4 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.944 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.02 min

Lab File: VF062521.D

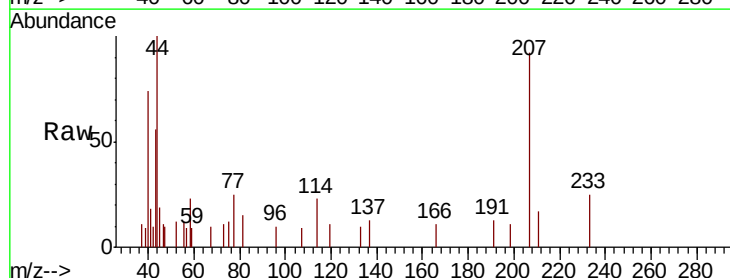
Acq: 13 May 2019 1:04

Tgt Ion: 43 Resp: 1638

Ion Ratio Lower Upper

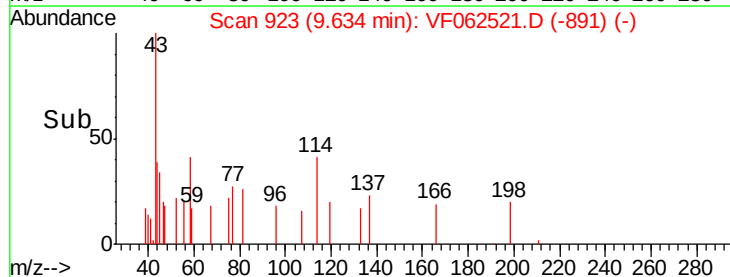
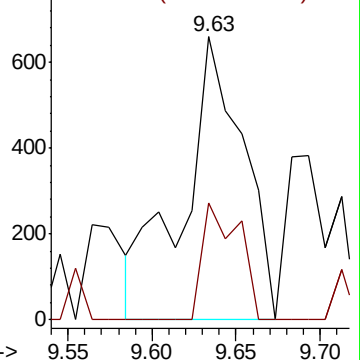
43 100

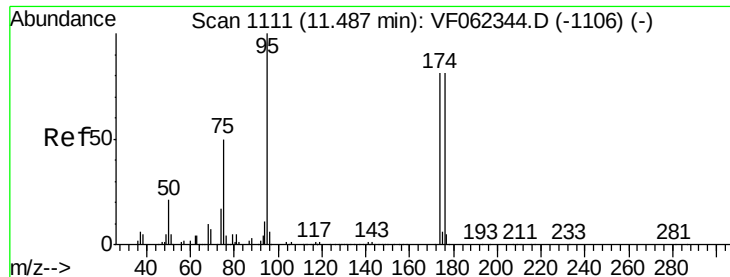
58 25.0 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 32.848 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062521.D

Acq: 13 May 2019 1:04

Instrument :

MSVOA_F

ClientSampleId :

P021-SS005-0206-01

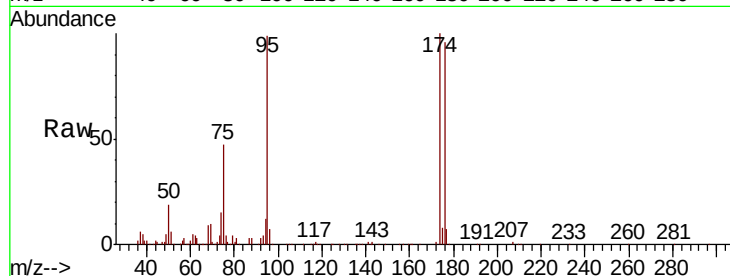
Tot Ion: 95 Resp: 117585

Ion Ratio Lower Upper

95 100

174 98.7 0.0 191.8

176 97.6 0.0 193.2

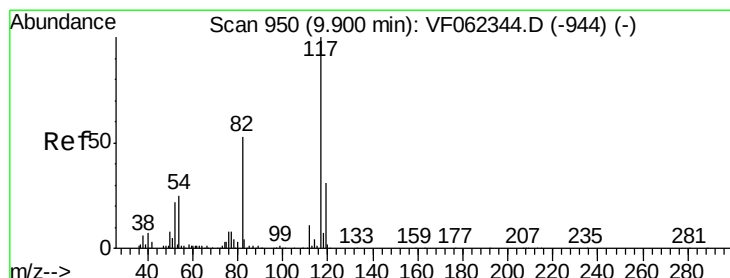
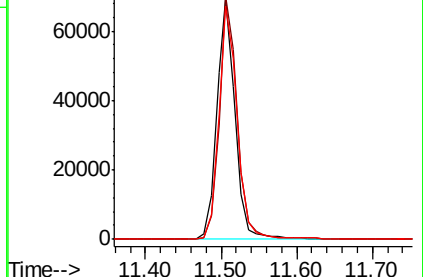
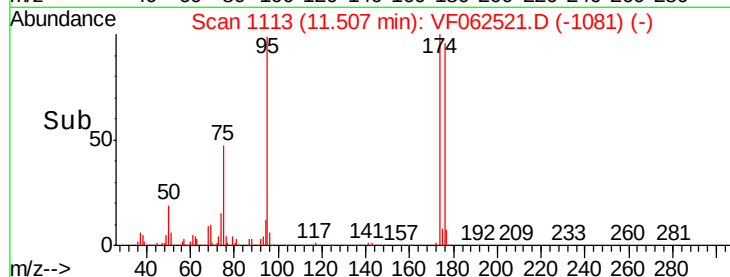


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0

11.51



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF062521.D

Acq: 13 May 2019 1:04

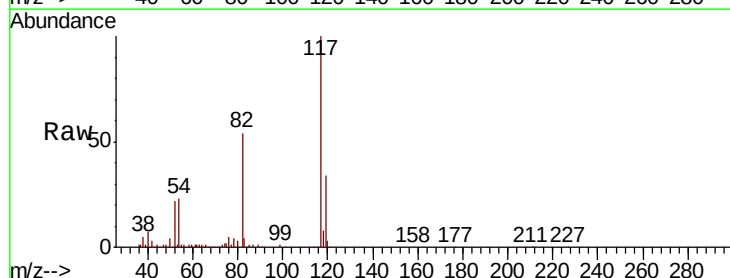
Tgt Ion: 117 Resp: 322547

Ion Ratio Lower Upper

117 100

82 53.5 42.2 63.2

119 34.1 25.0 37.4

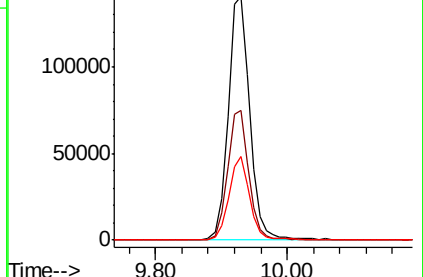
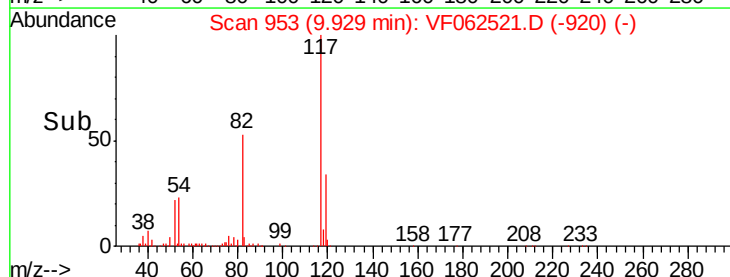


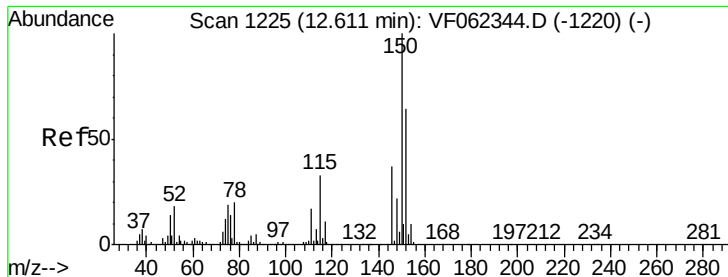
Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0

9.93



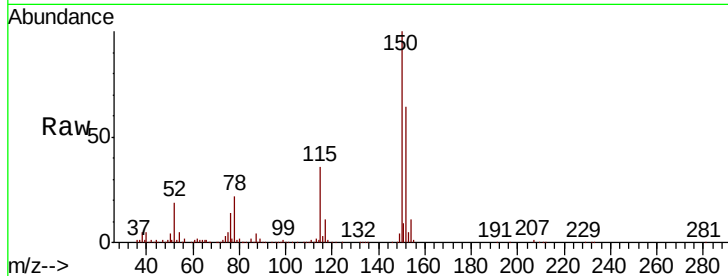


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Instrument :
MSVOA_F
ClientSampleId :
P021-SS005-0206-01

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	26.4	79.2
150	154.7	0.0	335.0

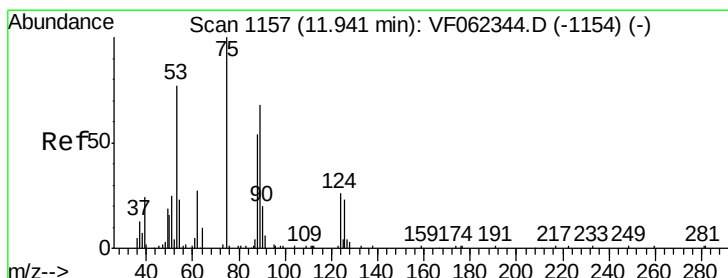
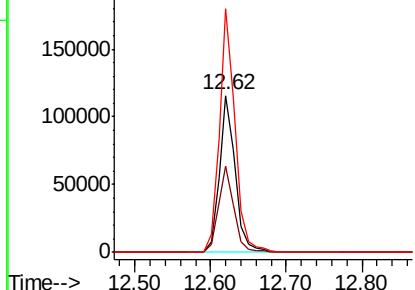
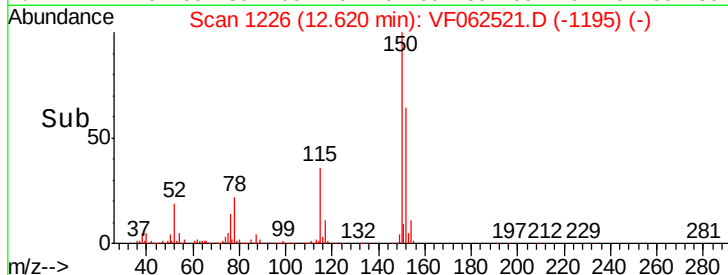


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

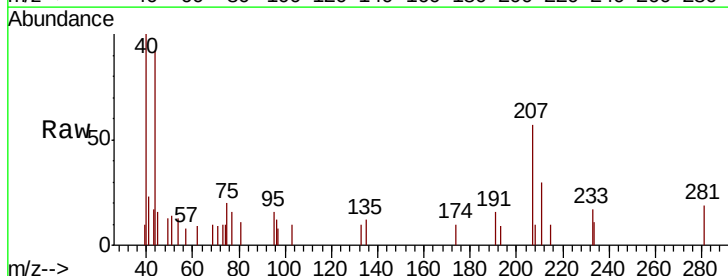
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 1.204 ug/l
RT: 11.96 min Scan# 1159
Delta R.T. 0.02 min
Lab File: VF062521.D
Acq: 13 May 2019 1:04

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	71.9	107.9#
89	24.7	0.0	0.0#



Abundance

Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

