

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091219\
 Data File : VX012343.D
 Acq On : 12 Sep 2019 12:14
 Operator : SY/SP
 Sample : K4716-07
 Misc : 5.96g/5.0mL/MSVOA X/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 12 12:55:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 12:55:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	164708	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	281305	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	246985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100353	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	109995	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
35) Dibromofluoromethane	5.48	113	83494	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
50) Toluene-d8	8.71	98	333295	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	
62) 4-Bromofluorobenzene	11.13	95	124436	42.44	ug/l	0.00
Spiked Amount			Recovery	=	84.88%	

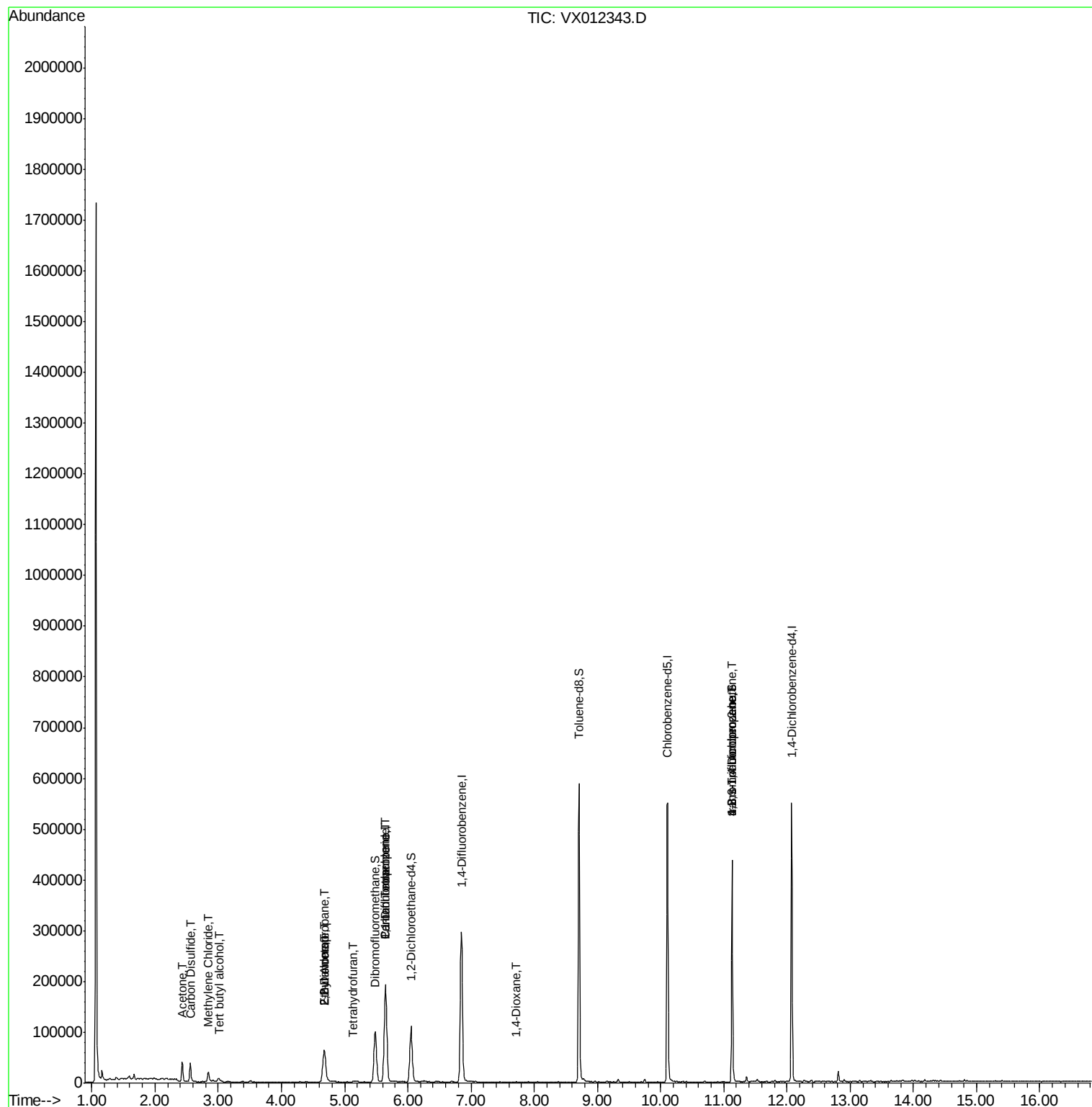
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	367	Below Cal	#	34
11) Tert butyl alcohol	3.02	59	6391	17.244	ug/l	98
16) Acetone	2.43	43	39863	72.313	ug/l	97
17) Carbon Disulfide	2.56	76	45488	17.380	ug/l	96
20) Methylene Chloride	2.84	84	8478	2.422	ug/l	97
25) 2-Butanone	4.67	43	17057	24.204	ug/l	95
26) 2,2-Dichloropropane	4.67	77	4786	1.638	ug/l #	55
29) Tetrahydrofuran	5.12	42	384	1.010	ug/l #	20
36) 1,1-Dichloropropene	5.65	75	14168	6.907	ug/l #	53
37) Ethyl Acetate	4.67	43	17057	13.452	ug/l #	79
38) Carbon Tetrachloride	5.65	117	19094	7.934	ug/l #	14
49) 1,4-Dioxane	7.71	88	27	1.564	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	65085	50.485	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	65085	151.266	ug/l #	5

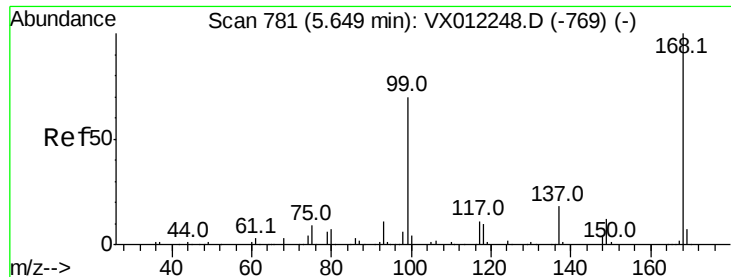
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091219\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :

MSVOA_X

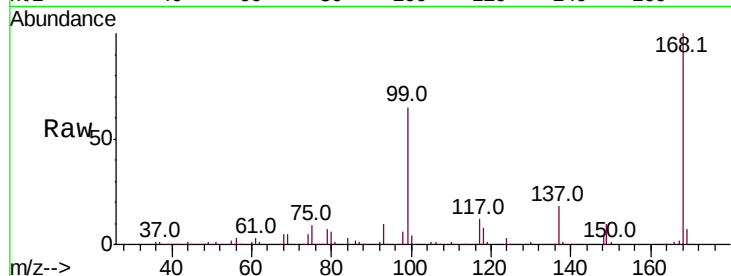
ClientSampleId :

Tot Ion:168 Resp: 164708

Ion Ratio Lower Upper

168 100

99 65.1 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

60000

40000

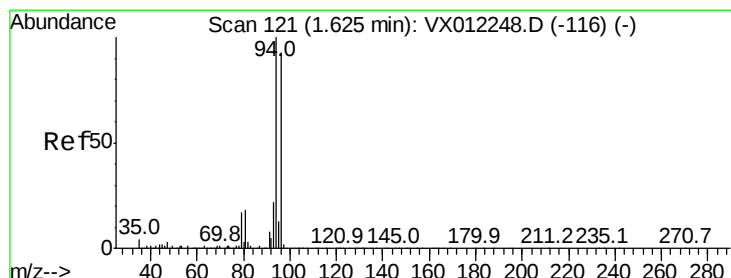
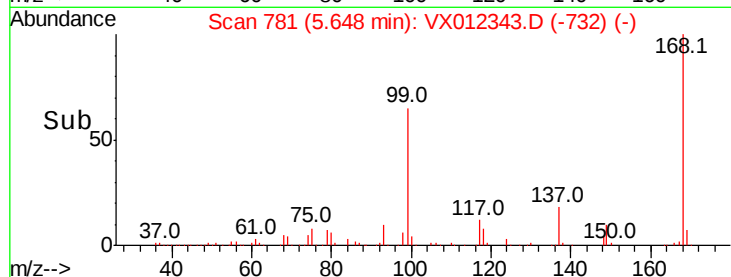
20000

0

5.50 5.60 5.70 5.80

5.65

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012343.D

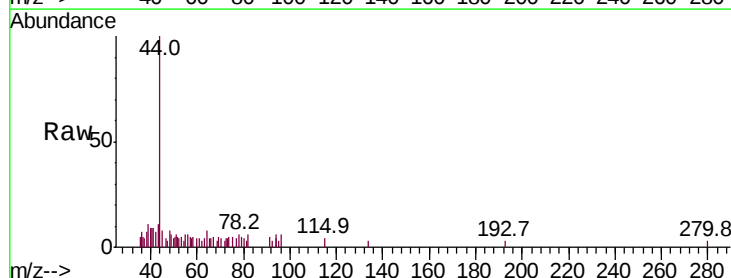
Acq: 12 Sep 2019 12:14

Tgt Ion: 94 Resp: 367

Ion Ratio Lower Upper

94 100

96 29.8 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

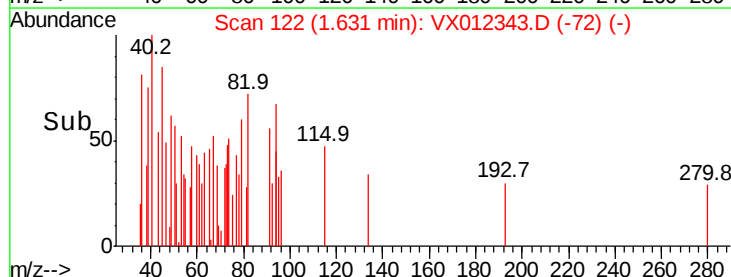
50

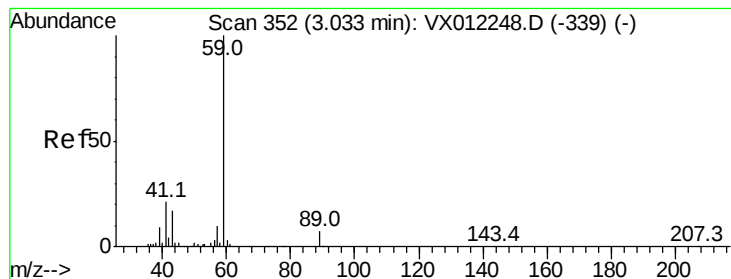
0

1.60 1.65

1.63

Time-->



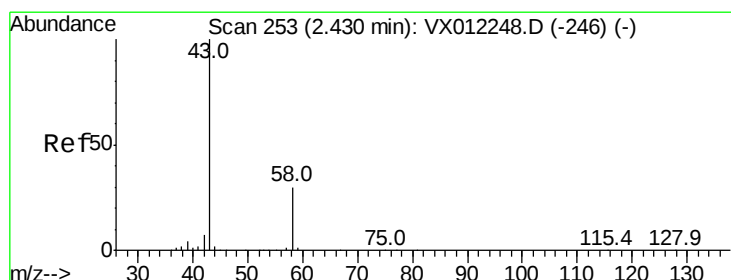
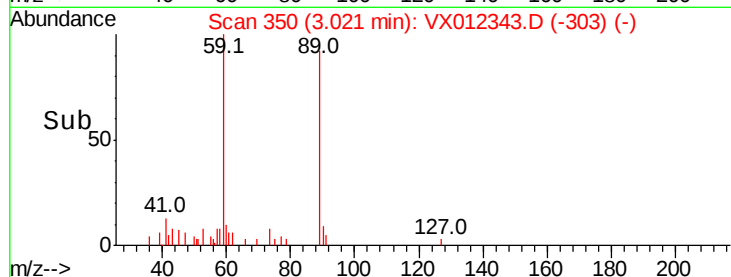
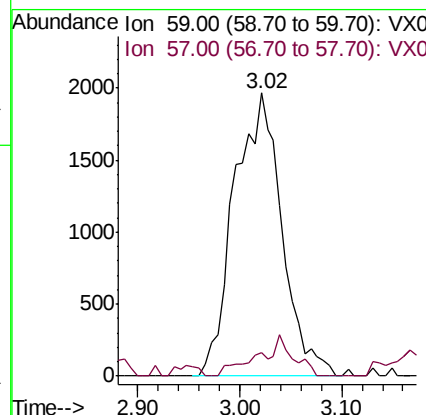
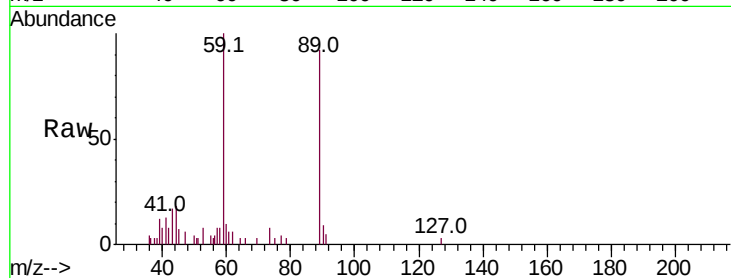


#11

Tert butyl alcohol
 Concen: 17.244 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VX012343.D
 Acq: 12 Sep 2019 12:14

Instrument :
 MSVOA_X
 ClientSampleId :

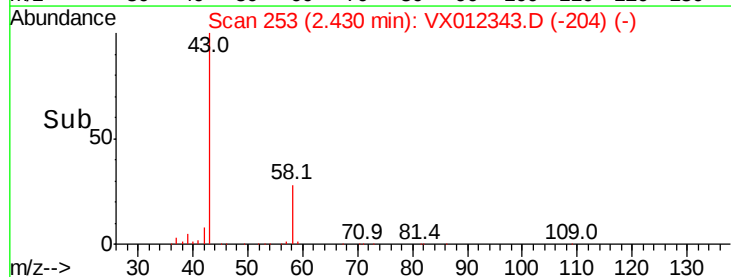
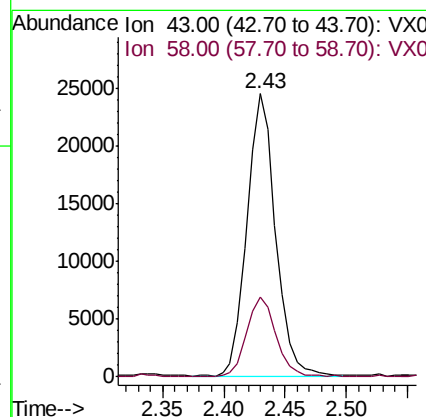
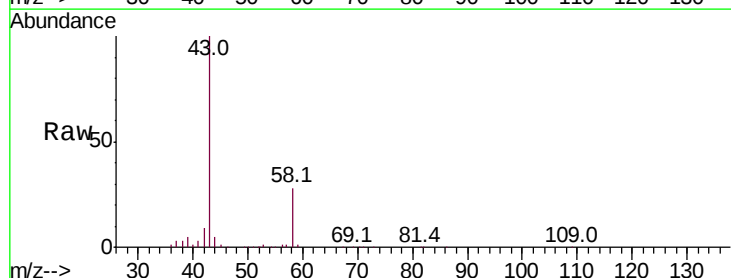
Tot Ion: 59 Resp: 6391
 Ion Ratio Lower Upper
 59 100
 57 10.5 7.8 11.6

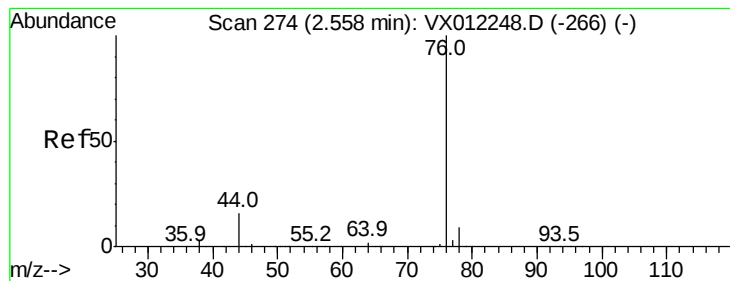


#16

Acetone
 Concen: 72.313 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VX012343.D
 Acq: 12 Sep 2019 12:14

Tgt Ion: 43 Resp: 39863
 Ion Ratio Lower Upper
 43 100
 58 28.1 23.6 35.4





#17

Carbon Disulfide

Concen: 17.380 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :

MSVOA_X

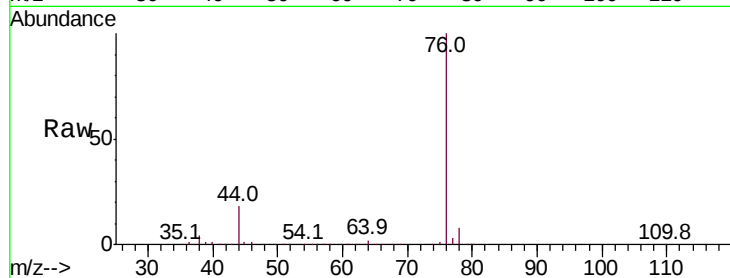
ClientSampleId :

Tot Ion: 76 Resp: 45488

Ion Ratio Lower Upper

76 100

78 7.9 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

30000

25000

20000

15000

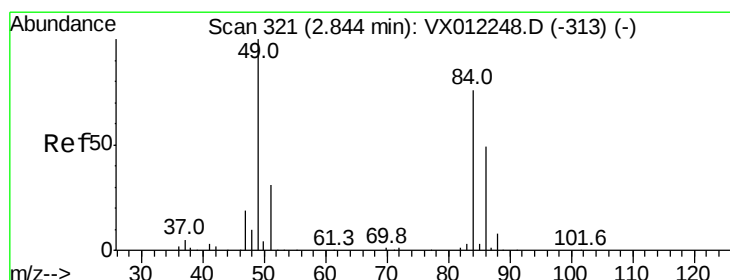
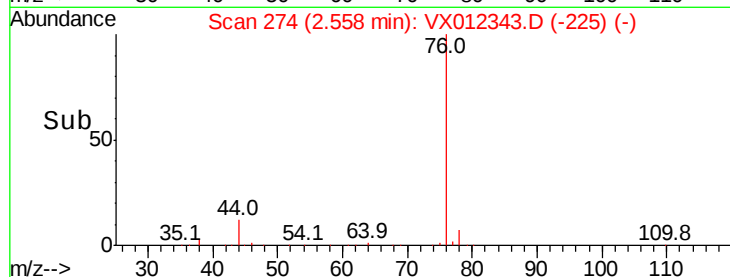
10000

5000

0

Time-->

2.50 2.55 2.60 2.65



#20

Methylene Chloride

Concen: 2.422 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Tgt Ion: 84 Resp: 8478

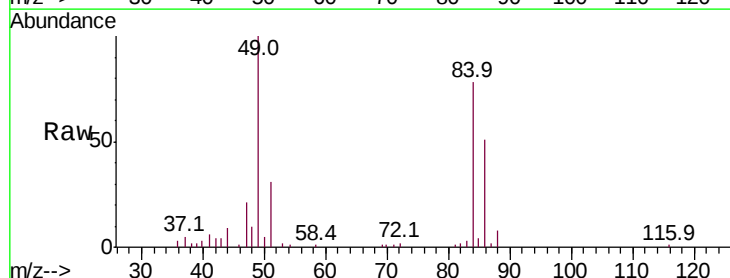
Ion Ratio Lower Upper

84 100

49 127.1 105.0 157.6

51 37.9 32.6 48.8

86 65.1 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

8000

6000

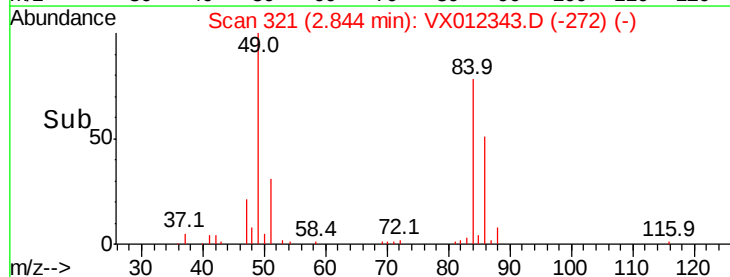
4000

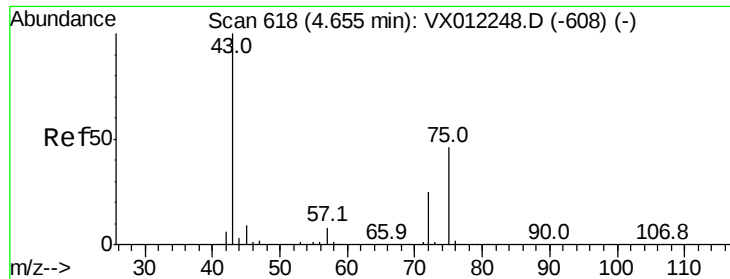
2000

0

Time-->

2.75 2.80 2.85 2.90





#25

2-Butanone

Concen: 24.204 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :

MSVOA_X

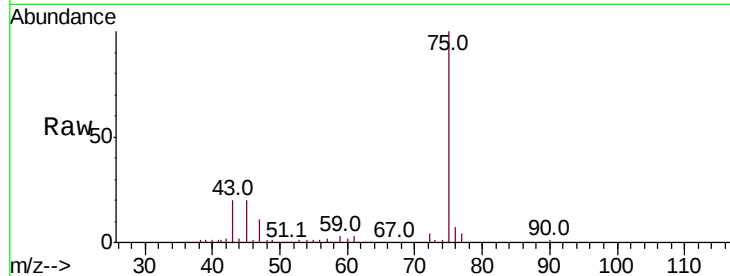
ClientSampleId :

Tot Ion: 43 Resp: 17057

Ion Ratio Lower Upper

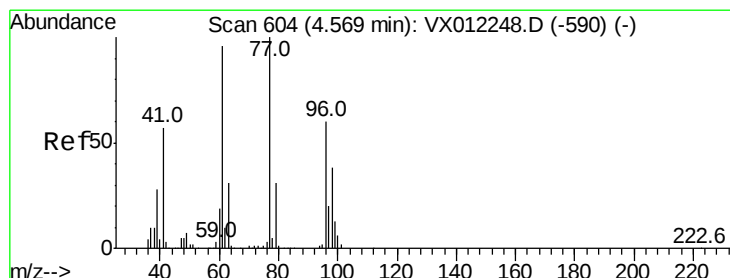
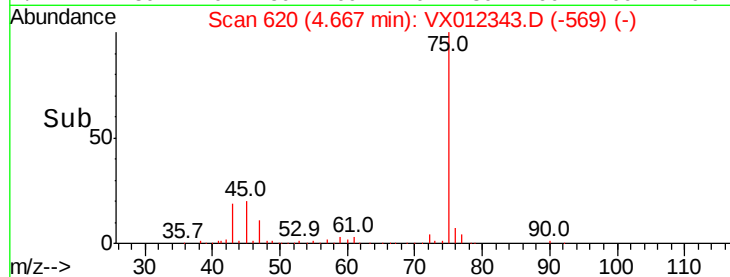
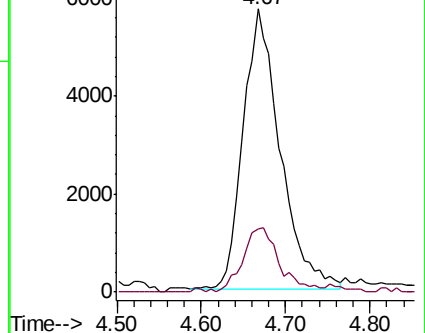
43 100

72 22.5 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 1.638 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.10 min

Lab File: VX012343.D

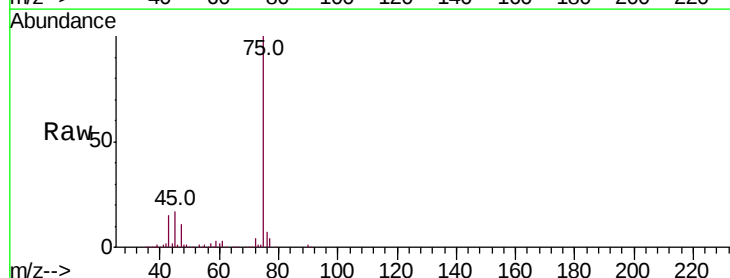
Acq: 12 Sep 2019 12:14

Tgt Ion: 77 Resp: 4786

Ion Ratio Lower Upper

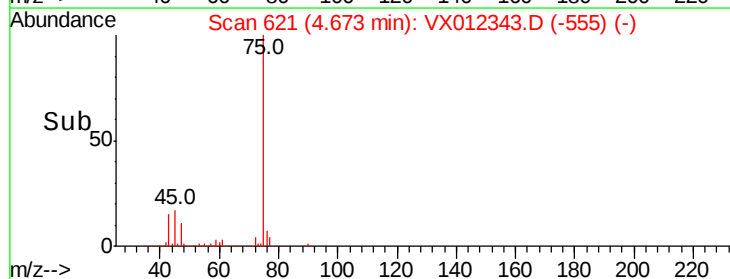
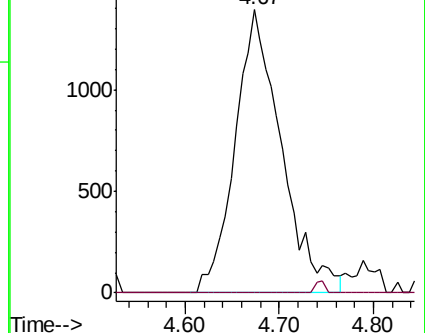
77 100

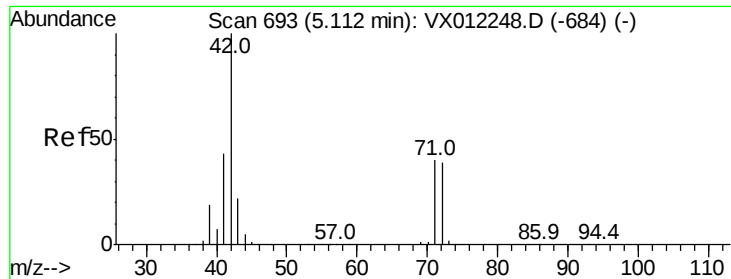
97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#29

Tetrahydrofuran

Concen: 1.010 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :
MSVOA_X
ClientSampled :

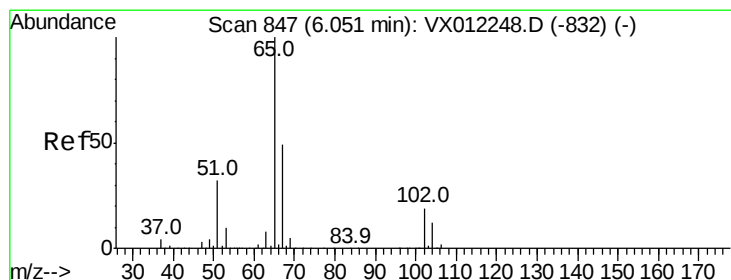
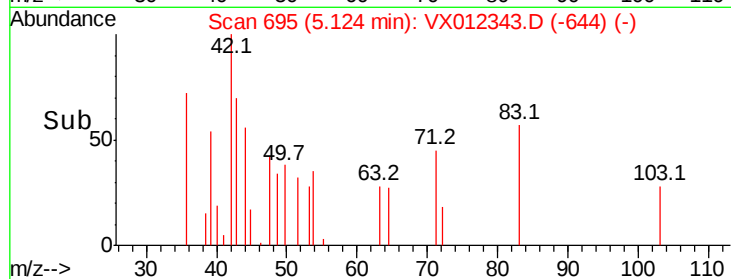
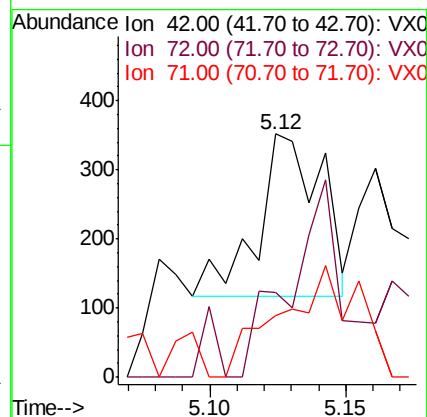
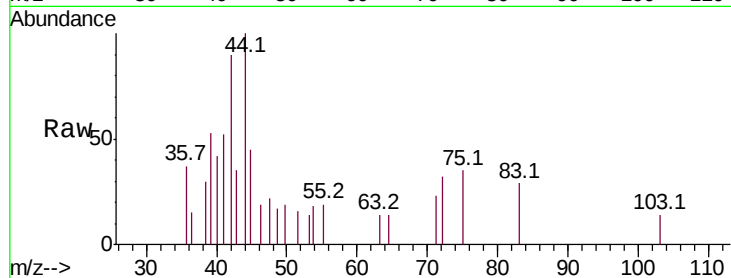
Tot Ion: 42 Resp: 384

Ion Ratio Lower Upper

42 100

72 102.6 35.2 52.8#

71 83.1 32.5 48.7#



#33

1,2-Dichloroethane-d4

Concen: 47.236 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012343.D

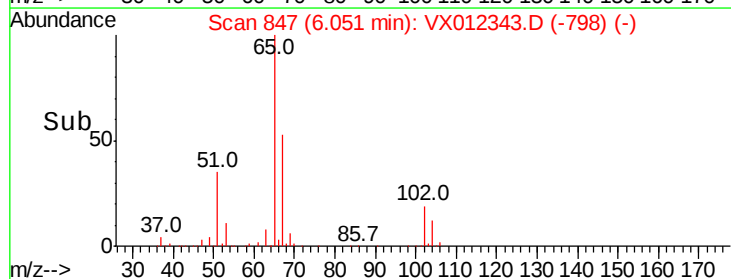
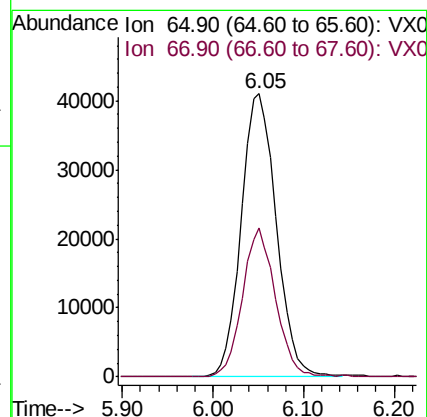
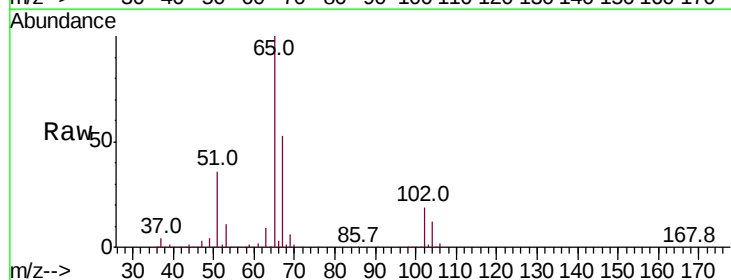
Acq: 12 Sep 2019 12:14

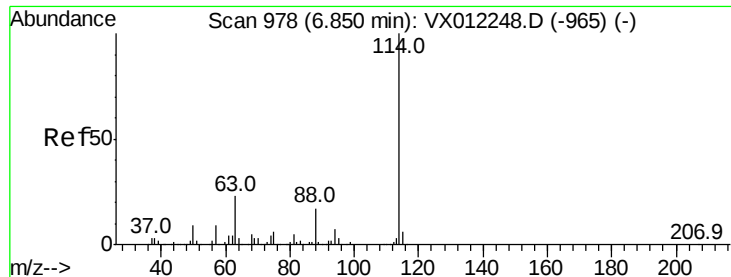
Tgt Ion: 65 Resp: 109995

Ion Ratio Lower Upper

65 100

67 49.7 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

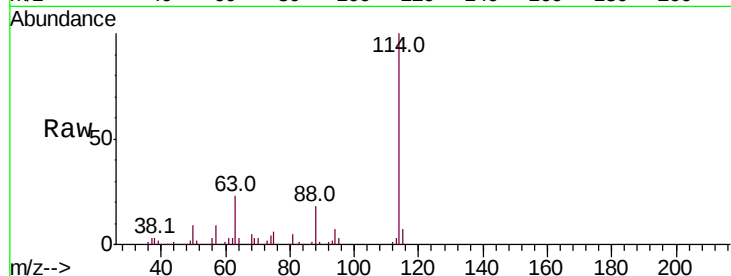
Tot Ion:114 Resp: 281305

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

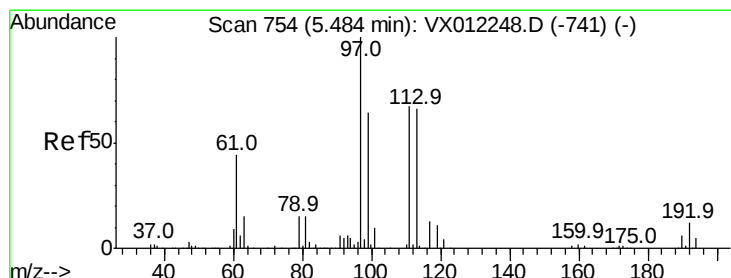
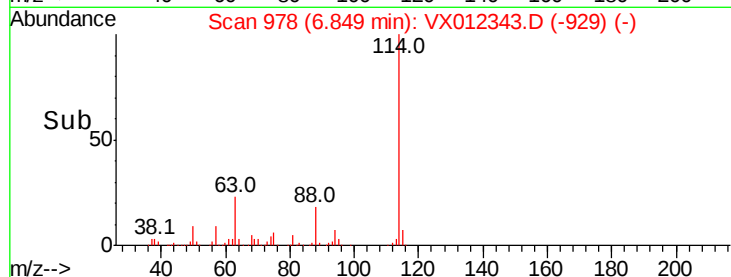
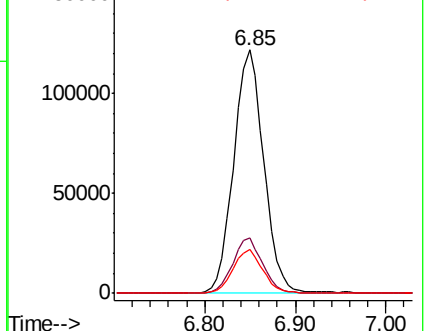
88 17.8 0.0 34.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.301 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

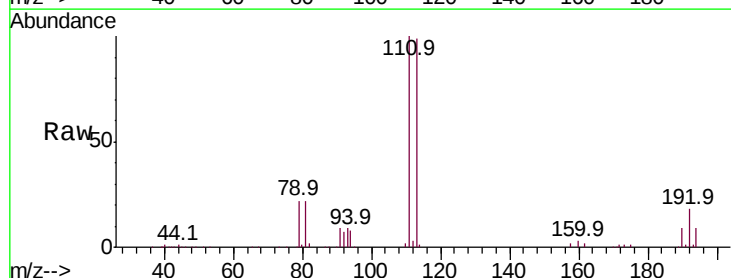
Tgt Ion:113 Resp: 83494

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.6

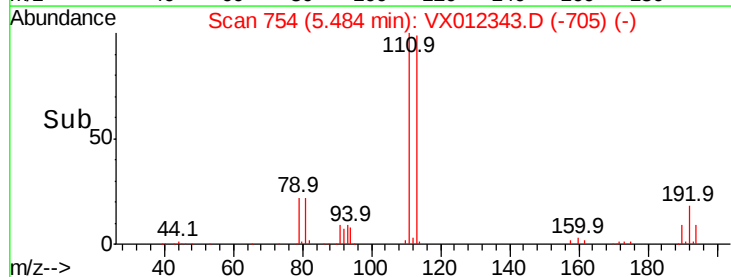
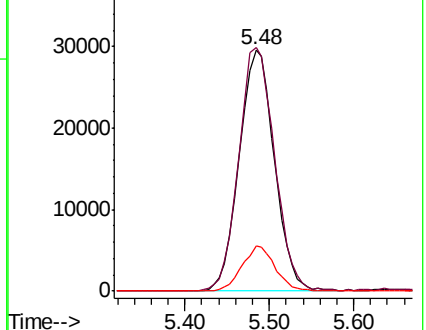
192 17.7 14.3 21.5

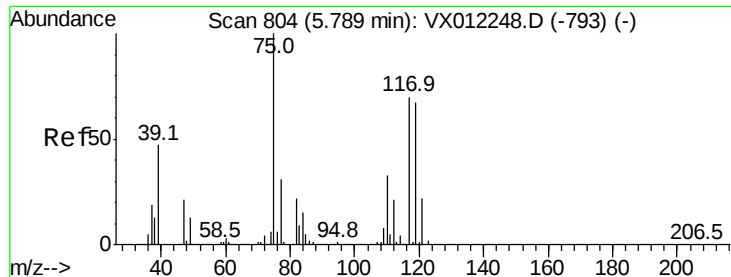


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.907 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :
MSVOA_X
ClientSampled :

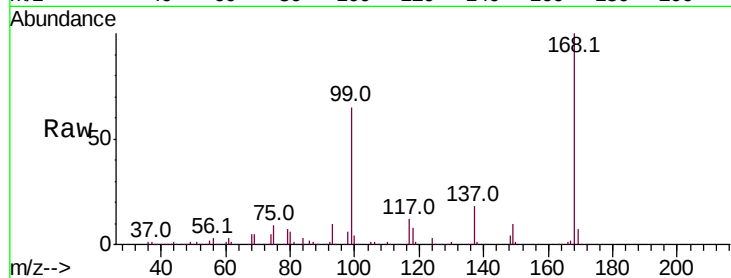
Tot Ion: 75 Resp: 14168

Ion Ratio Lower Upper

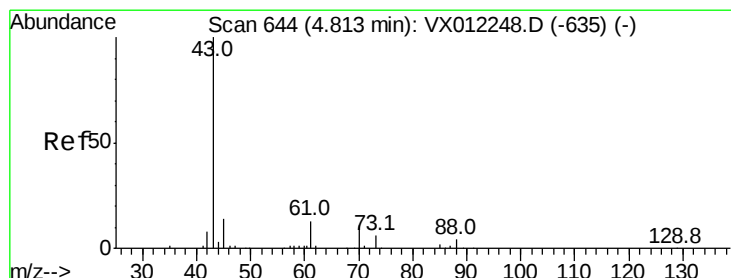
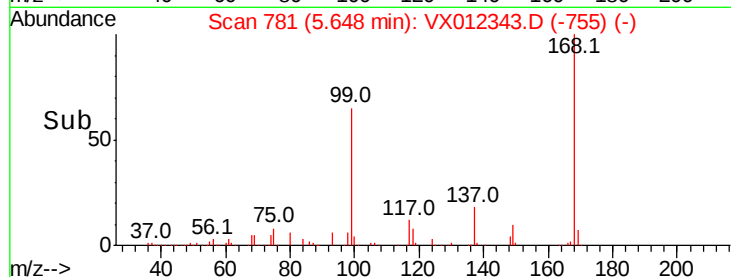
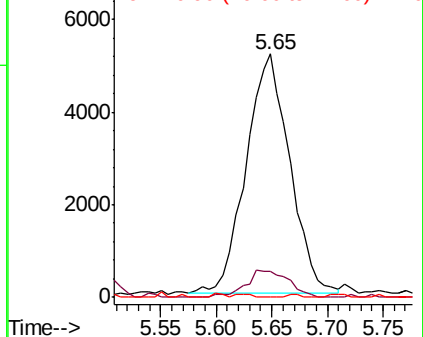
75 100

110 11.0 16.8 50.4#

77 0.5 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 13.452 ug/l

RT: 4.67 min Scan# 620

Delta R.T. -0.15 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

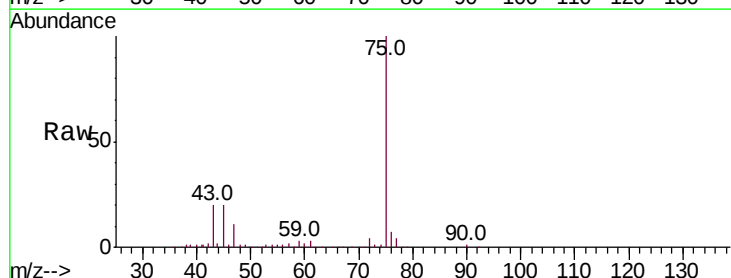
Tgt Ion: 43 Resp: 17057

Ion Ratio Lower Upper

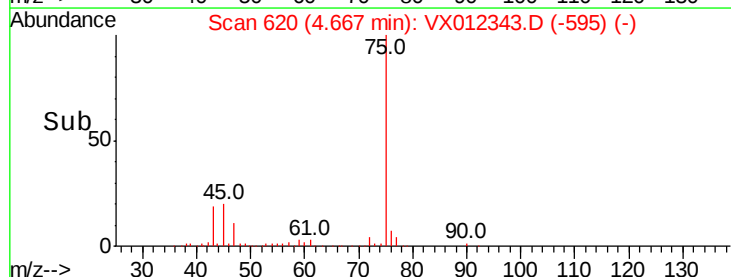
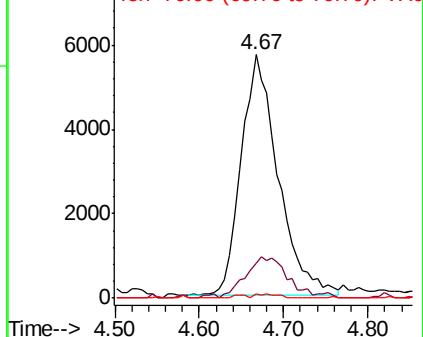
43 100

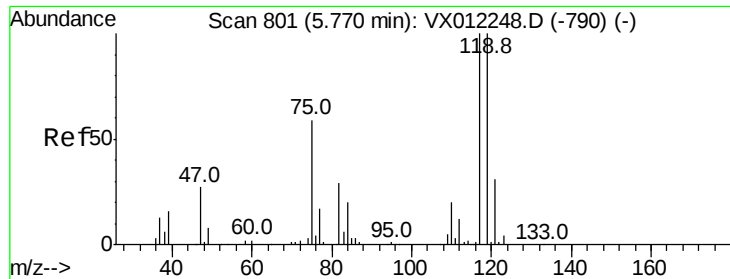
61 19.3 10.3 15.5#

70 1.0 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.934 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :

MSVOA_X

ClientSampled :

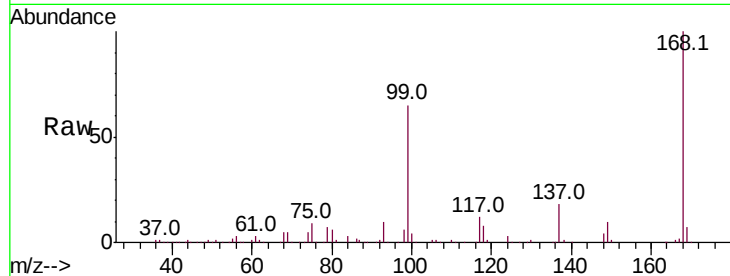
Tot Ion:117 Resp: 19094

Ion Ratio Lower Upper

117 100

119 5.0 79.6 119.4#

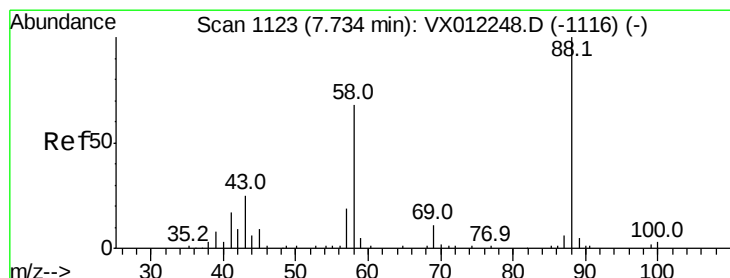
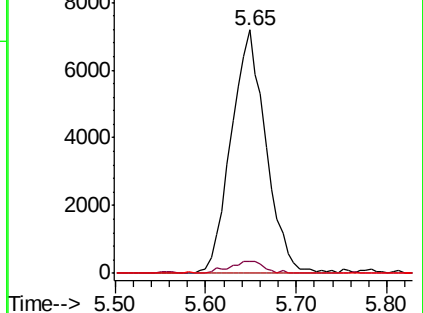
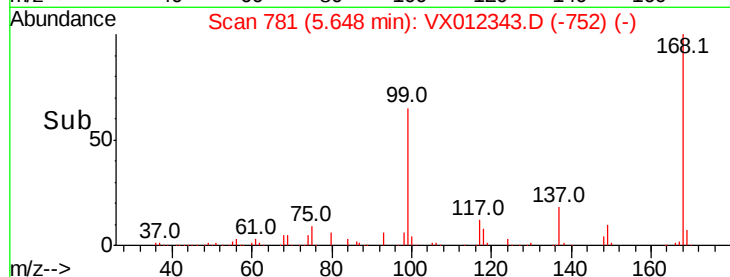
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.564 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

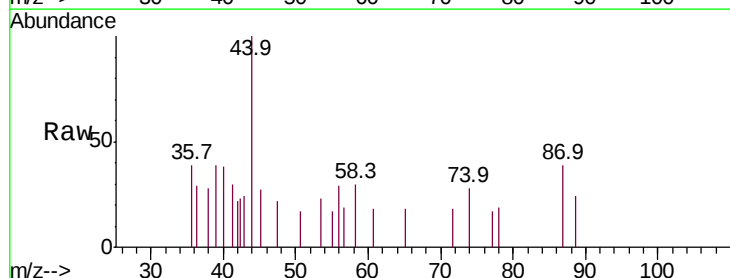
Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 318.5 31.0 46.4#

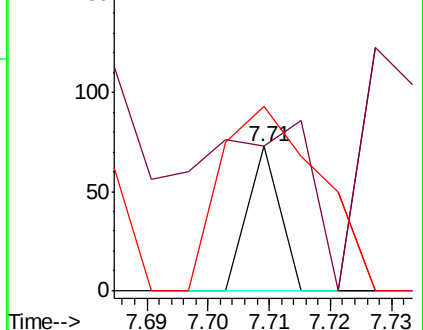
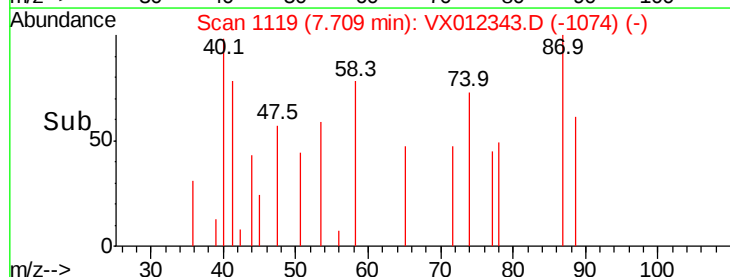
58 388.9 61.5 92.3#

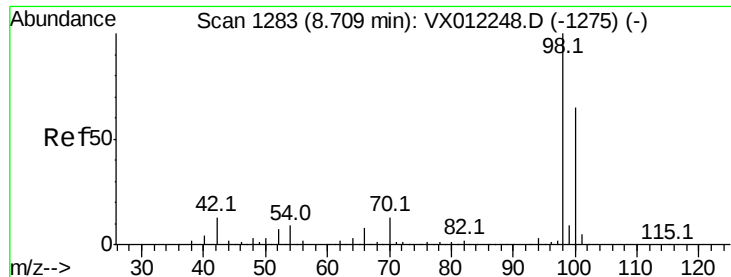


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

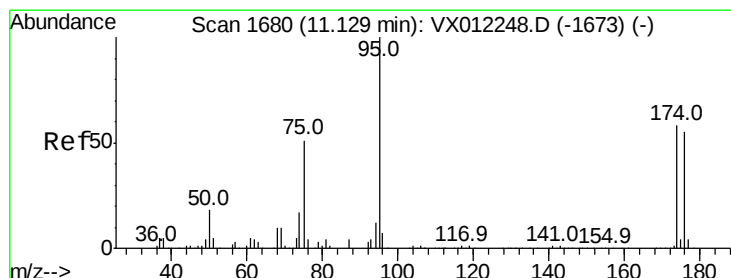
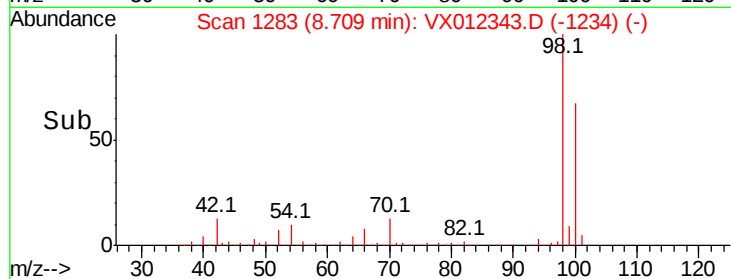
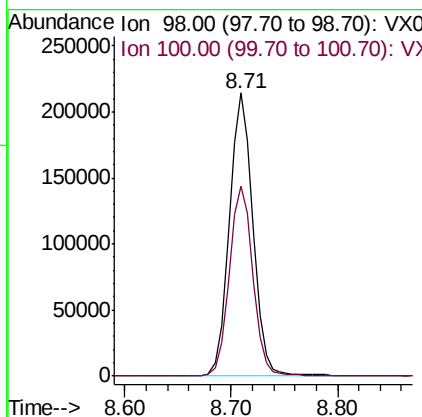
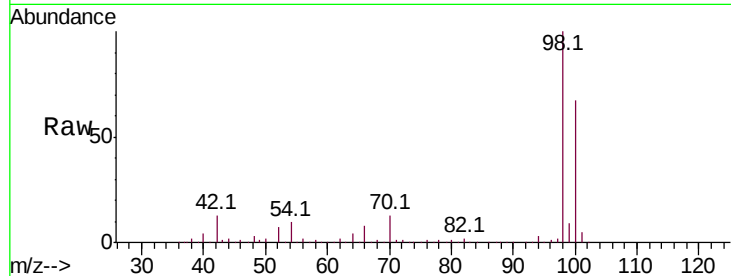




#50
Toluene-d8
Concen: 52.697 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012343.D
Acq: 12 Sep 2019 12:14

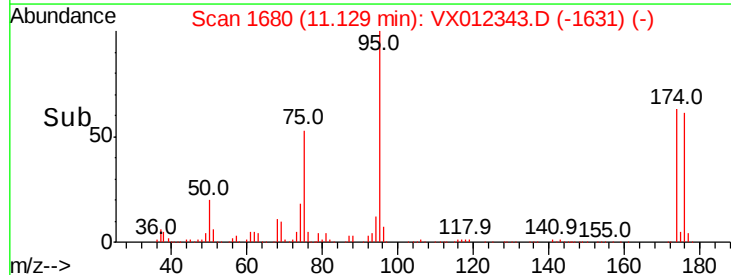
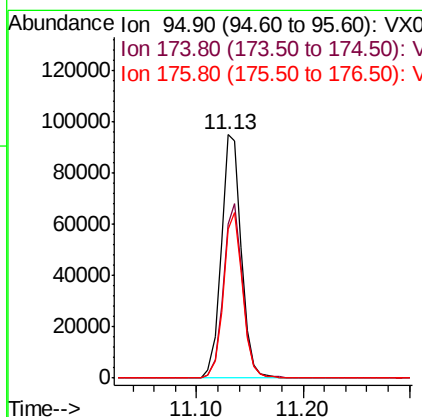
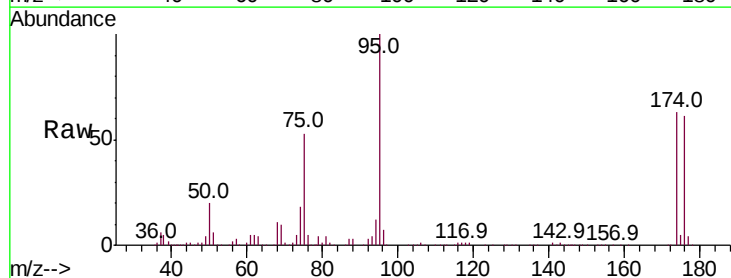
Instrument :
MSVOA_X
ClientSampleId :

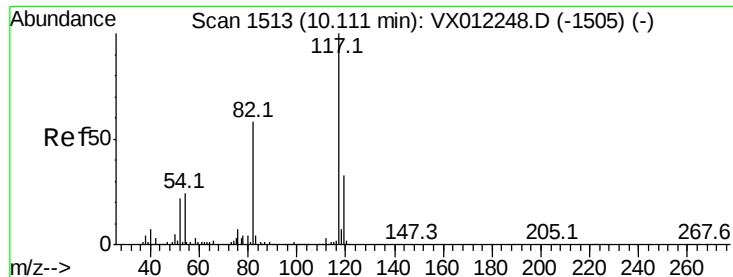
Tot Ion: 98 Resp: 333295
Ion Ratio Lower Upper
98 100
100 67.7 54.1 81.1



#62
4-Bromofluorobenzene
Concen: 42.438 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX012343.D
Acq: 12 Sep 2019 12:14

Tgt Ion: 95 Resp: 124436
Ion Ratio Lower Upper
95 100
174 68.8 0.0 127.0
176 65.3 0.0 125.8

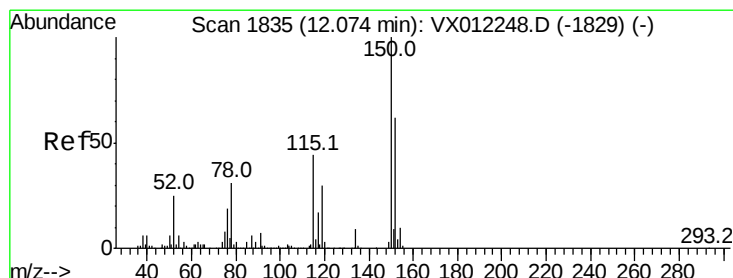
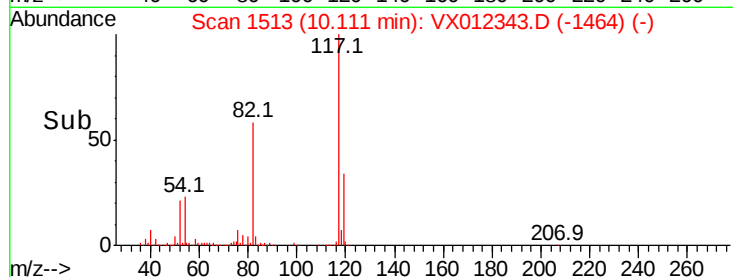
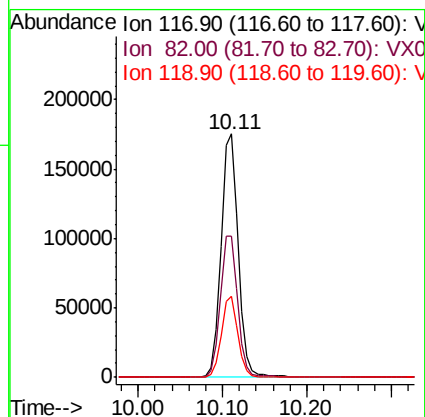
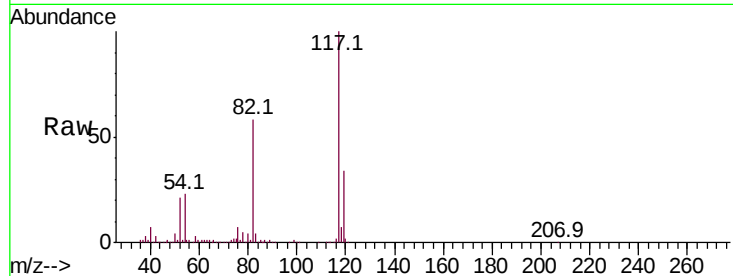




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012343.D
Acq: 12 Sep 2019 12:14

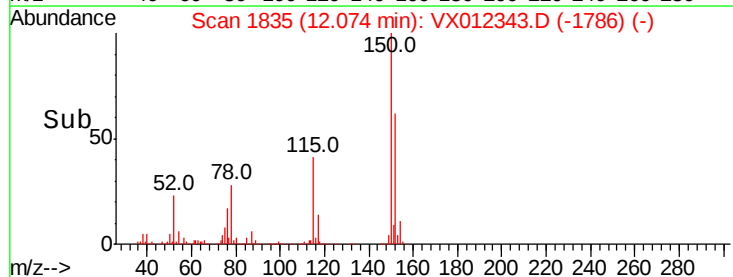
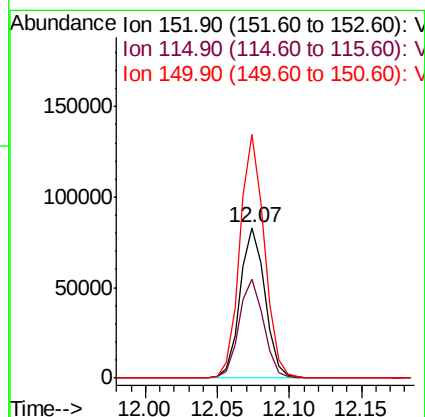
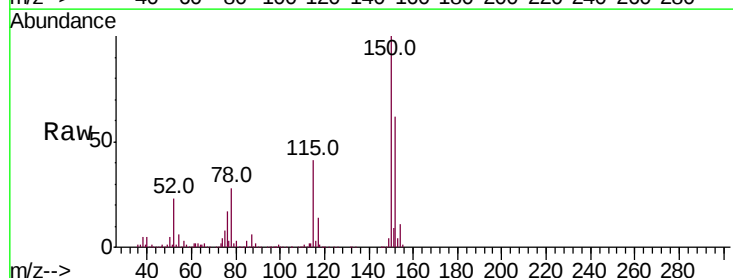
Instrument :
MSVOA_X
ClientSampleId :

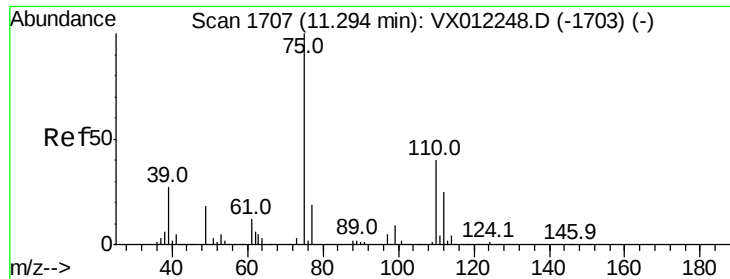
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.4	69.6
119	33.5	26.6	39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012343.D
Acq: 12 Sep 2019 12:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.2	45.5	136.4
150	158.9	0.0	346.4





#76

1,2,3-Trichloropropane

Concen: 50.485 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

Instrument :

MSVOA_X

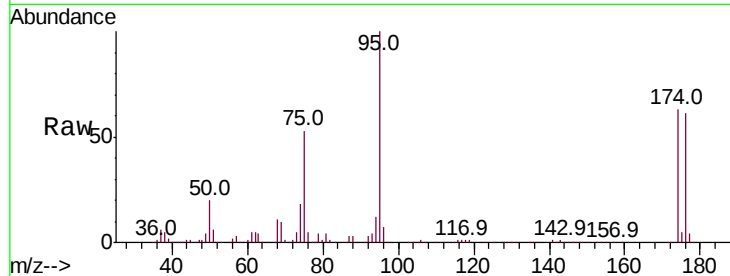
ClientSampleId :

Tot Ion: 75 Resp: 65085

Ion Ratio Lower Upper

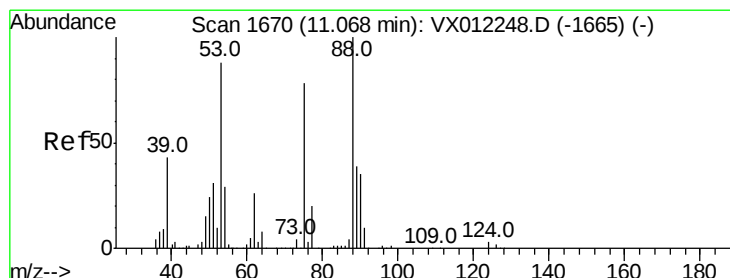
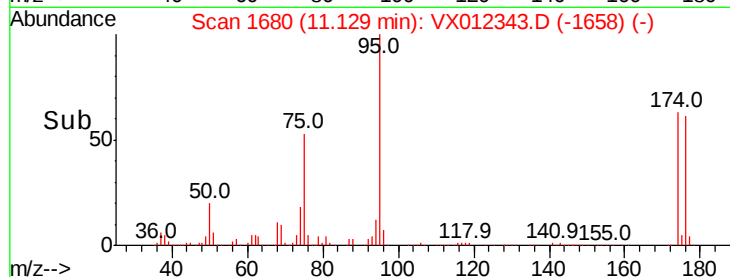
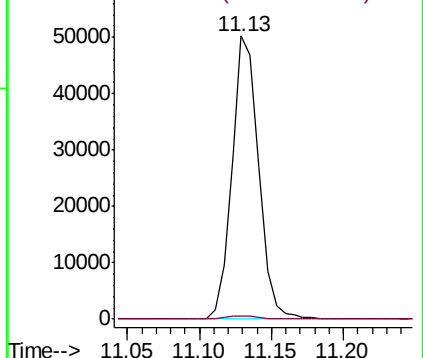
75 100

77 1.4 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 151.266 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012343.D

Acq: 12 Sep 2019 12:14

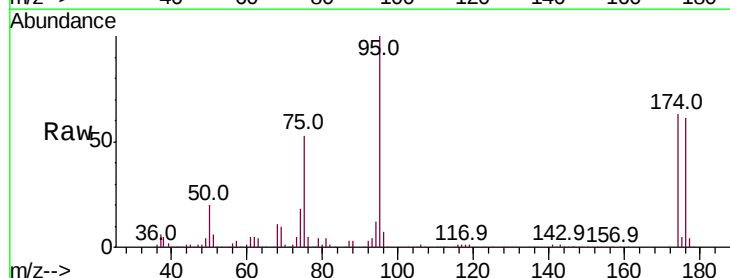
Tgt Ion: 75 Resp: 65085

Ion Ratio Lower Upper

75 100

53 0.2 88.1 132.1#

89 0.0 43.5 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

