

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059574.D
 Acq On : 20 Jul 2018 00:08
 Operator : VA/AP
 Sample : J4057-01
 Misc : 5.28g/5mL/MSVOA F/SOIL
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 04:54:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

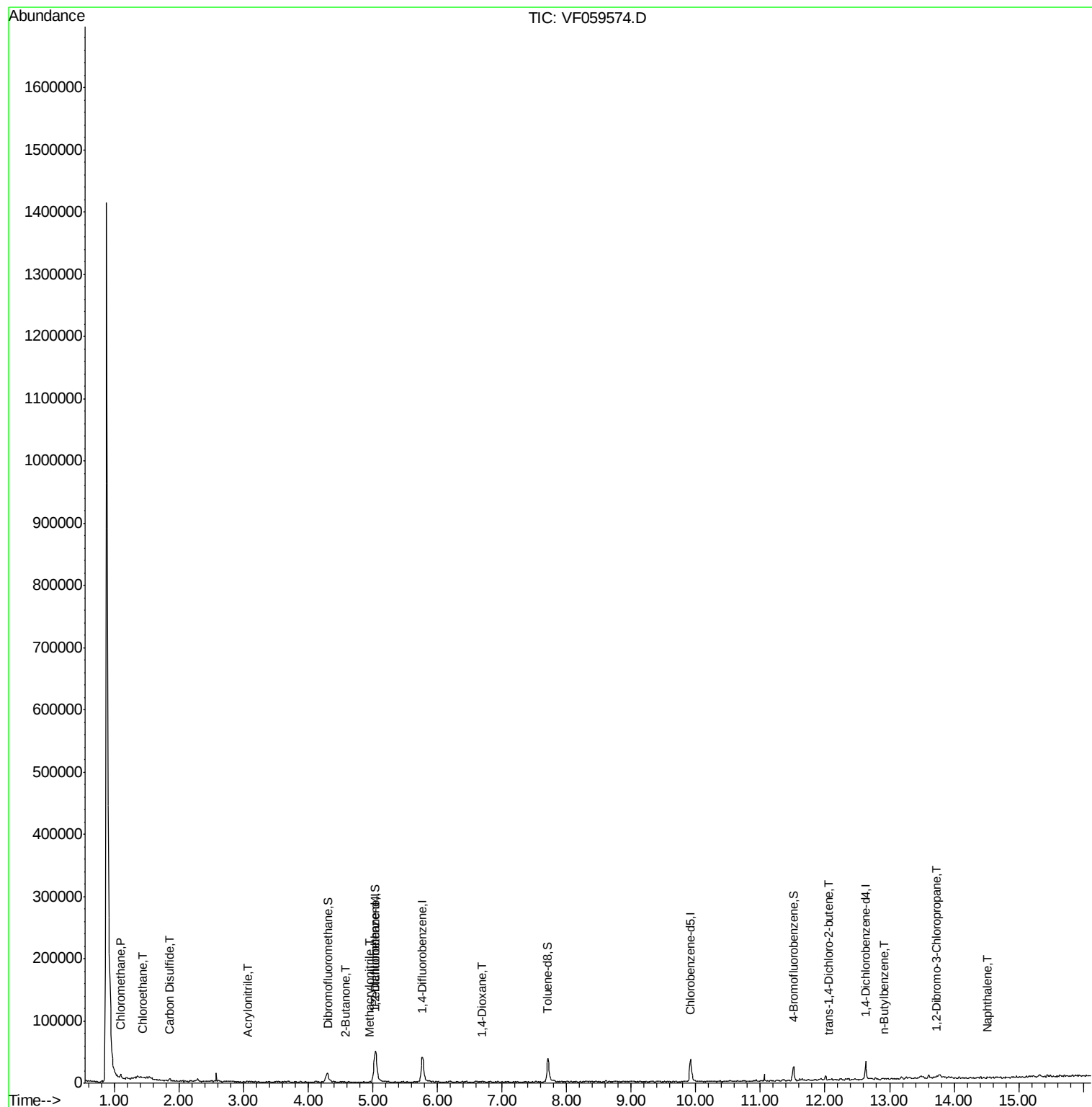
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	43060	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	49794	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	25419	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	6723	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	11272	16.83	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	33.66%	
35) Dibromofluoromethane	4.30	113	14160	32.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.66%	
50) Toluene-d8	7.71	98	33641	30.97	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	61.94%	
62) 4-Bromofluorobenzene	11.51	95	9877	17.33	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	34.66%	
Target Compounds				Qvalue		
3) Chloromethane	1.10	50	500	1.722	ug/l #	44
6) Chloroethane	1.44	64	192	1.300	ug/l #	1
11) Tert butyl alcohol	2.65	59	64	Below Cal	#	1
15) Acrylonitrile	3.08	53	64	1.139	ug/l #	40
16) Acetone	2.33	43	336	Below Cal	#	64
17) Carbon Disulfide	1.85	76	2578	3.125	ug/l #	74
18) Methyl Acetate	2.43	43	85	Below Cal	#	67
20) Methylene Chloride	2.29	84	1314	Below Cal	#	90
25) 2-Butanone	4.58	43	407	2.618	ug/l #	60
29) Tetrahydrofuran	4.29	42	250	Below Cal	#	38
37) Ethyl Acetate	4.31	43	134	Below Cal	#	41
41) Methacrylonitrile	4.95	41	220	1.539	ug/l #	60
49) 1,4-Dioxane	6.68	88	76	45.103	ug/l #	84
81) trans-1,4-Dichloro-2-buten	12.07	75	70	2.028	ug/l #	61
89) n-Butylbenzene	12.91	91	374	1.059	ug/l #	30
92) 1,2-Dibromo-3-Chloropropan	13.71	75	179	8.539	ug/l #	8
95) Naphthalene	14.52	128	1674	6.797	ug/l #	72

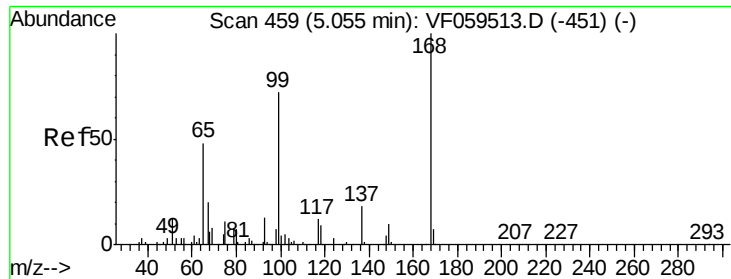
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

Instrument :

MSVOA_F

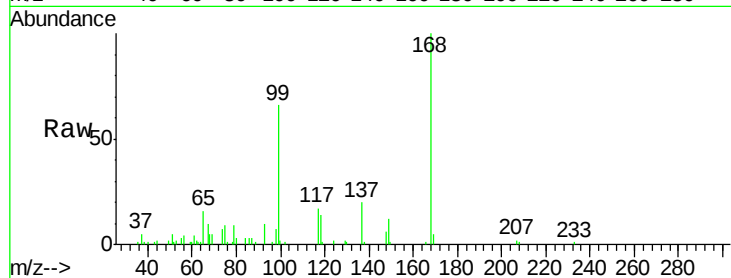
ClientSampleId :

Tot Ion:168 Resp: 43060

Ion Ratio Lower Upper

168 100

99 66.0 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

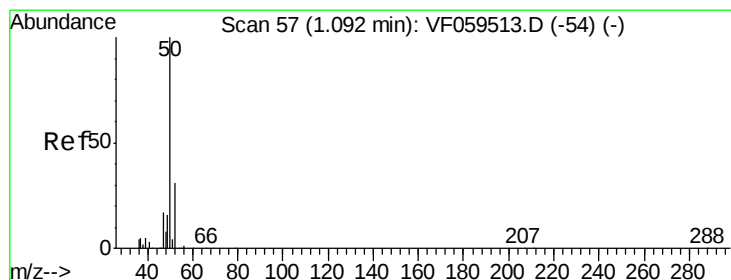
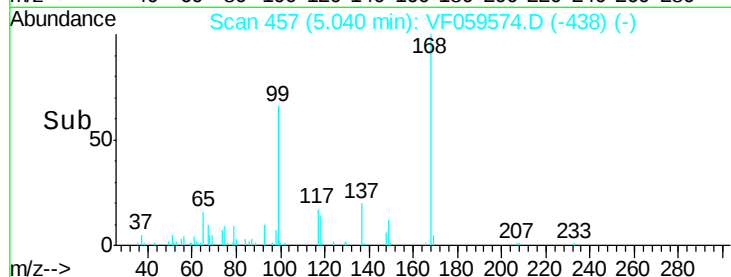
15000

10000

5000

0

Time--> 4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 1.722 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.00 min

Lab File: VF059574.D

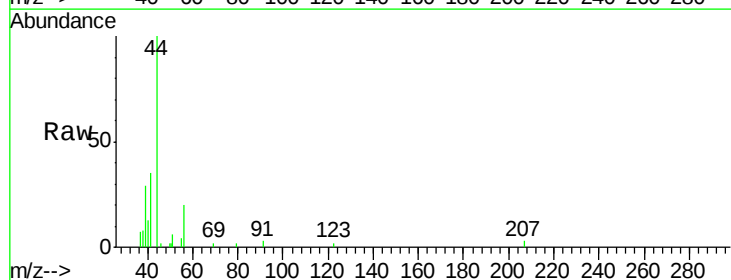
Acq: 20 Jul 2018 00:08

Tgt Ion: 50 Resp: 500

Ion Ratio Lower Upper

50 100

52 0.0 24.6 37.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

300

250

200

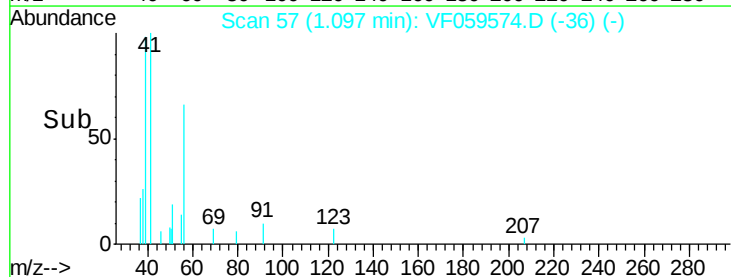
150

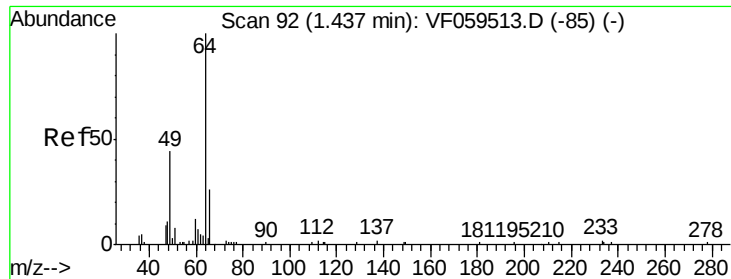
100

50

0

Time--> 1.05 1.10 1.15





#6

Chloroethane

Concen: 1.300 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.00 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

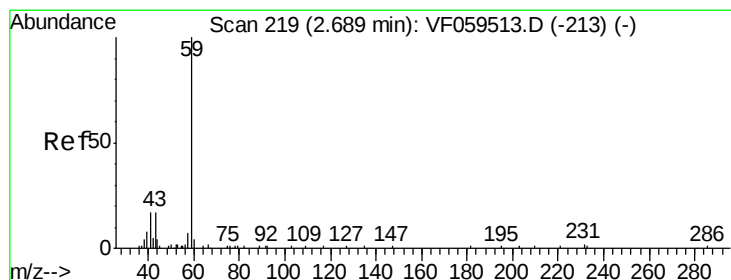
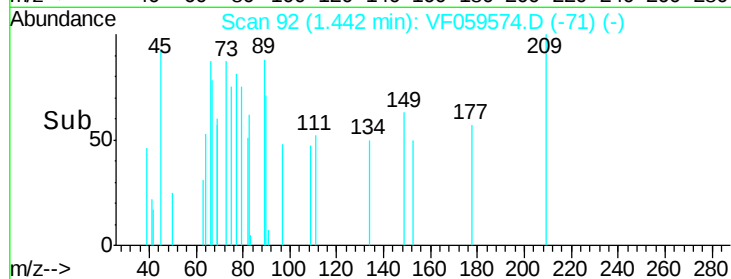
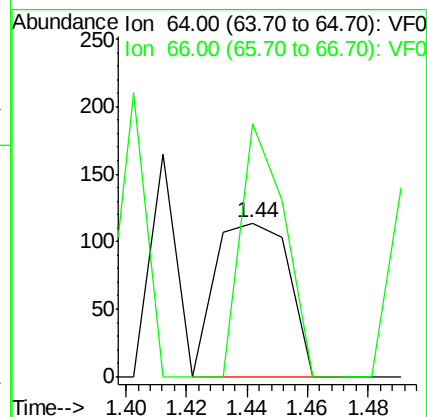
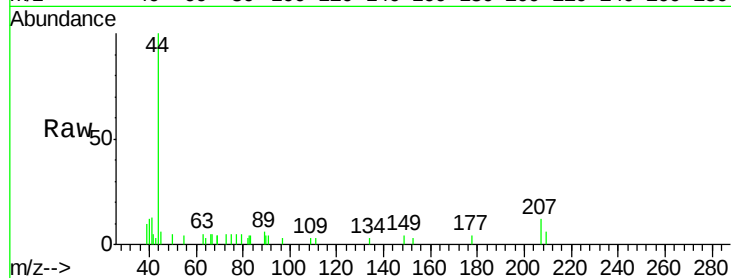
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 64 Resp: 192

Ion Ratio Lower Upper

64 100

66 164.9 22.9 34.3#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.65 min Scan# 215

Delta R.T. -0.03 min

Lab File: VF059574.D

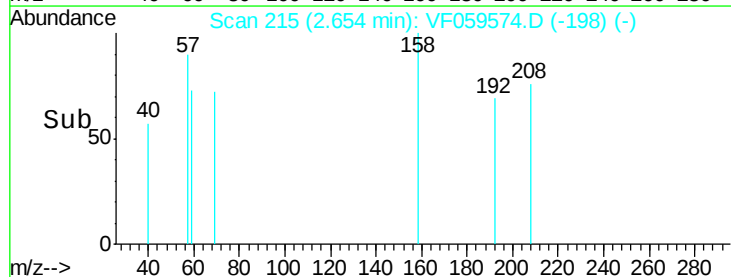
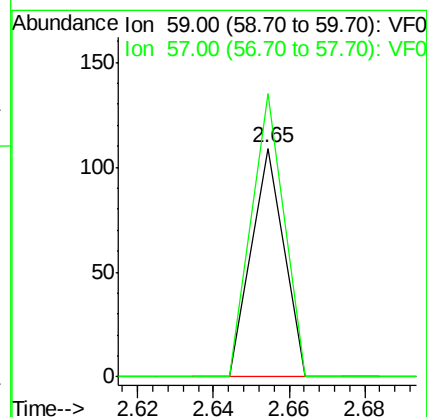
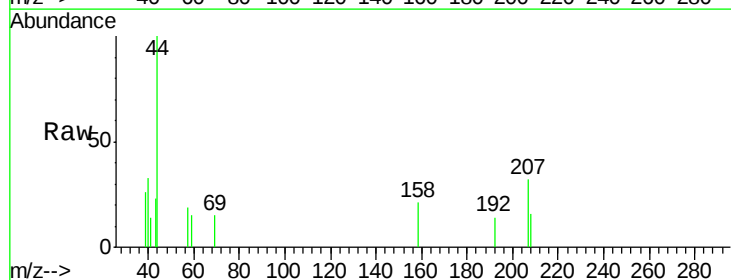
Acq: 20 Jul 2018 00:08

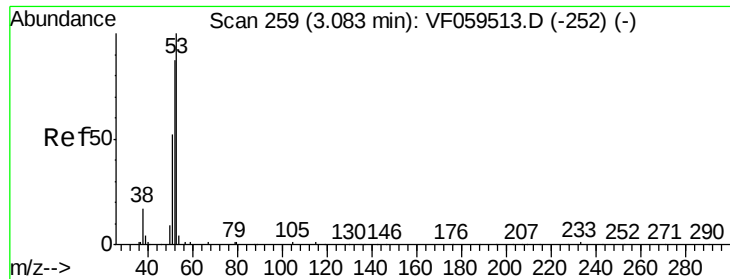
Tgt Ion: 59 Resp: 64

Ion Ratio Lower Upper

59 100

57 123.9 7.7 11.5#





#15

Acrylonitrile

Concen: 1.139 ug/l

RT: 3.08 min Scan# 258

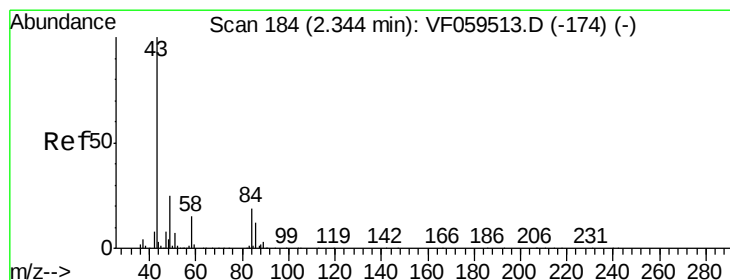
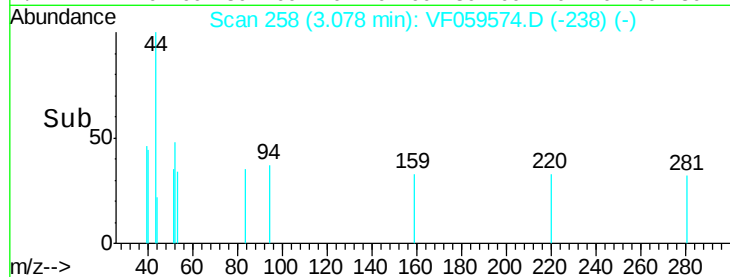
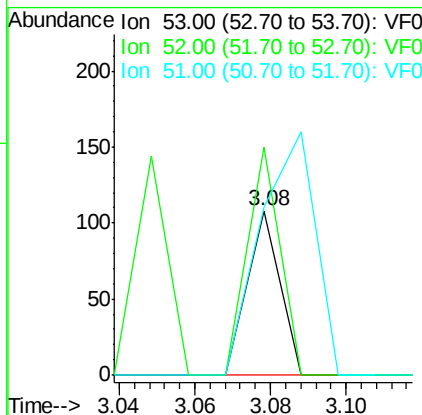
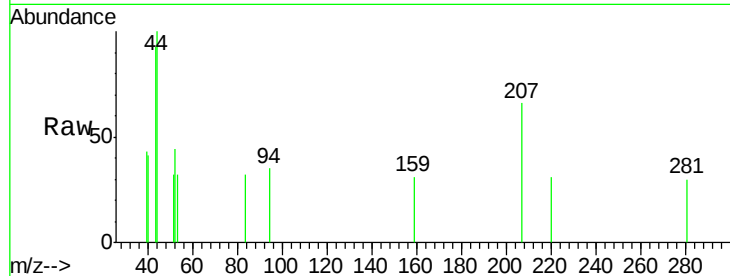
Delta R.T. -0.01 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	64
Ion	Ratio	Lower	Upper
53	100		
52	138.9	70.1	105.1#
51	101.9	42.5	63.7#



#16

Acetone

Concen: Below Cal

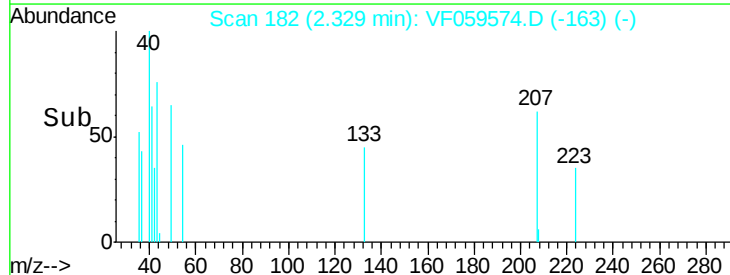
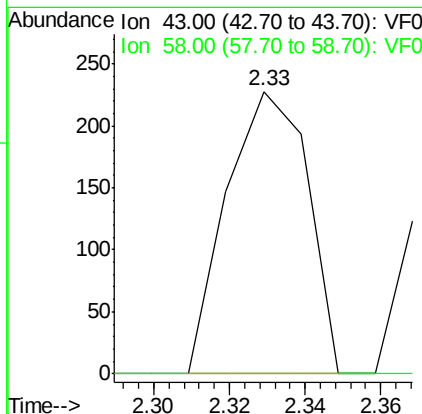
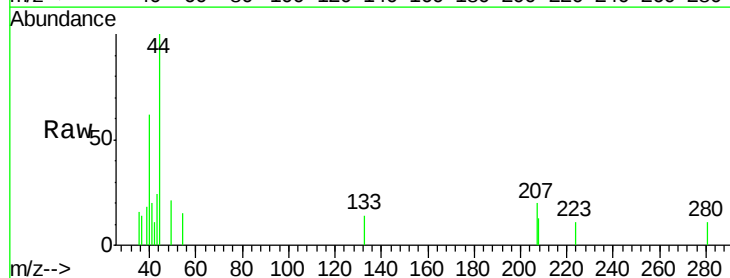
RT: 2.33 min Scan# 182

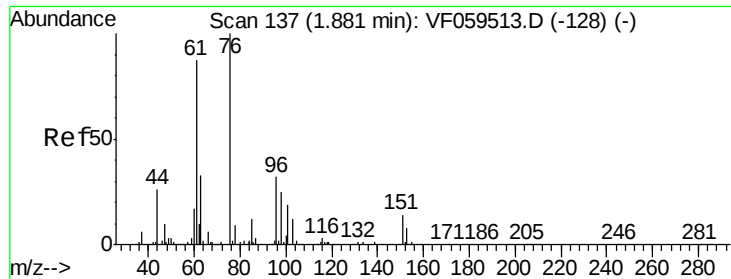
Delta R.T. -0.02 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

Tgt Ion:	43	Resp:	336
Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.8	17.6#

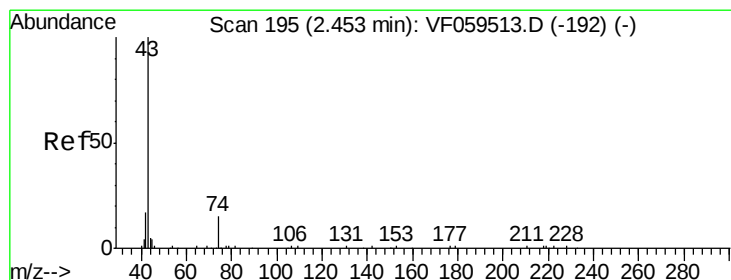
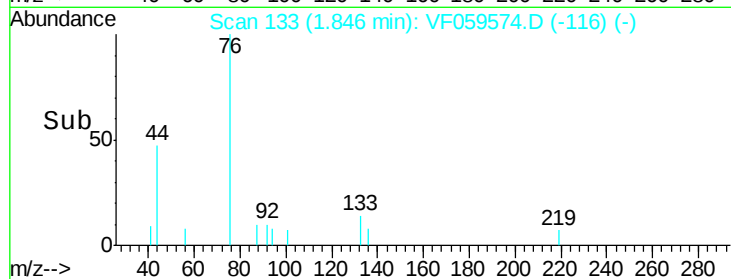
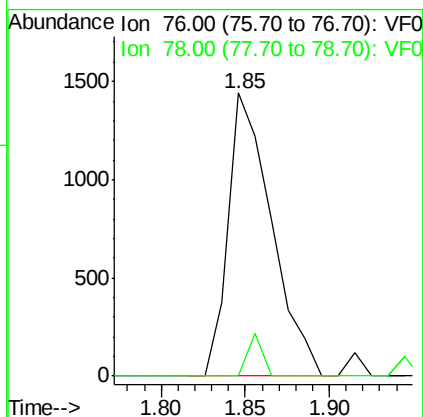
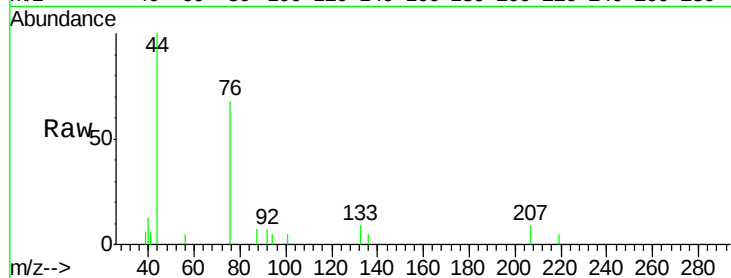




#17
Carbon Disulfide
Concen: 3.125 ug/l
RT: 1.85 min Scan# 133
Delta R.T. -0.03 min
Lab File: VF059574.D
Acq: 20 Jul 2018 00:08

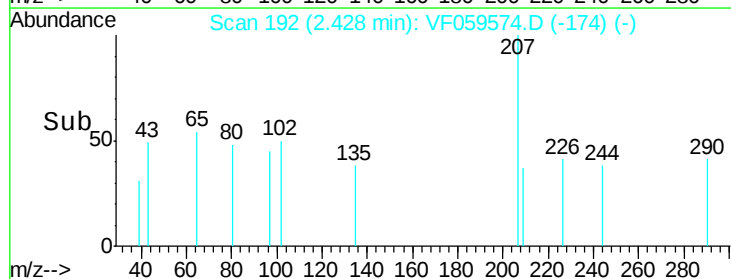
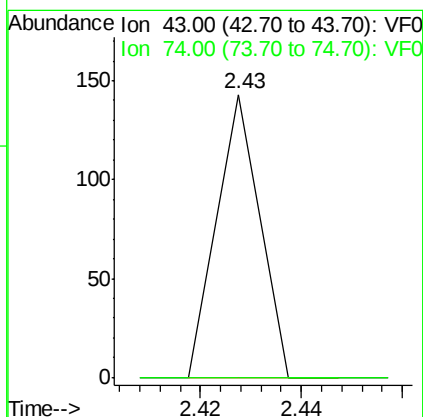
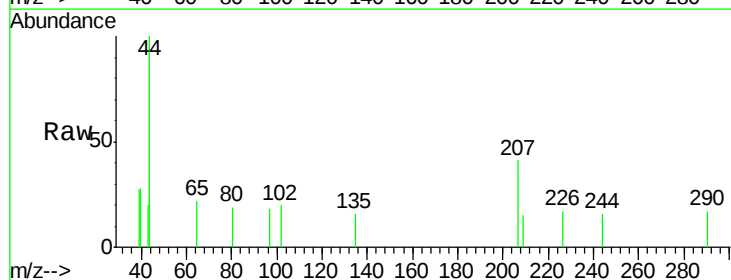
Instrument :
MSVOA_F
ClientSampleId :

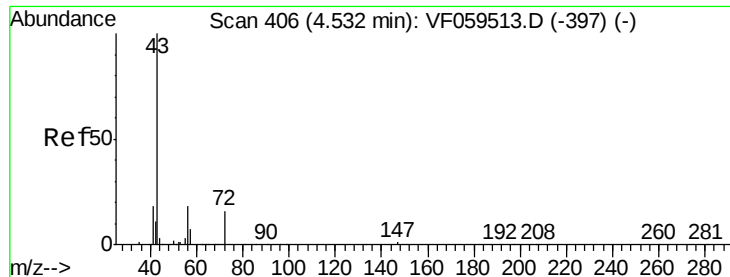
Tot Ion: 76 Resp: 2578
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.43 min Scan# 192
Delta R.T. -0.02 min
Lab File: VF059574.D
Acq: 20 Jul 2018 00:08

Tgt Ion: 43 Resp: 85
Ion Ratio Lower Upper
43 100
74 0.0 10.6 15.8#





#25

2-Butanone

Concen: 2.618 ug/l

RT: 4.58 min Scan# 410

Delta R.T. 0.04 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

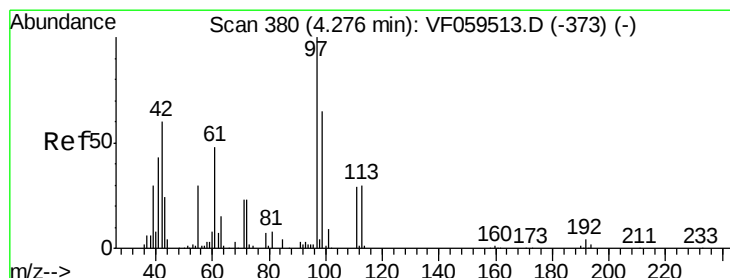
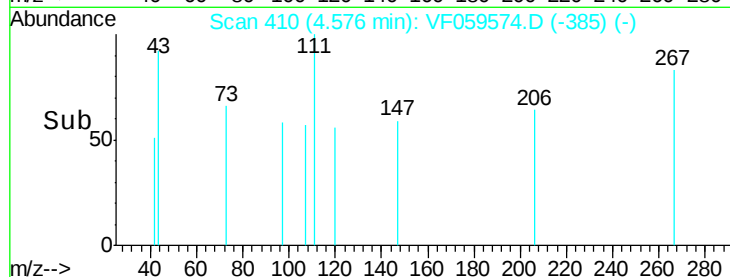
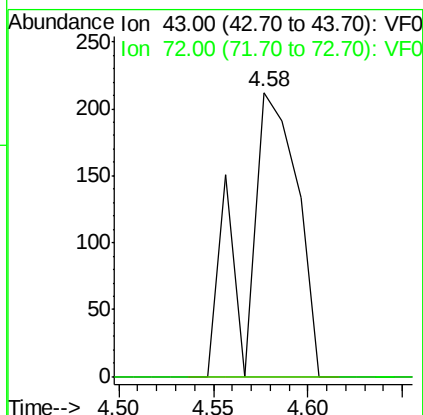
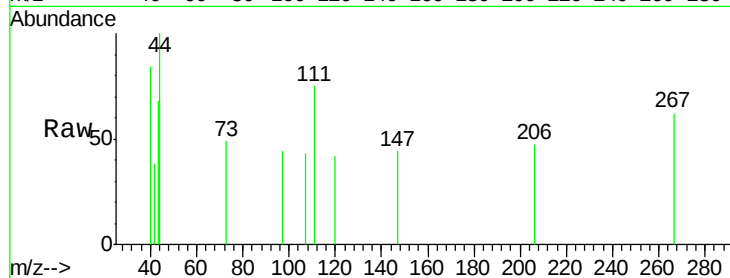
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 407

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

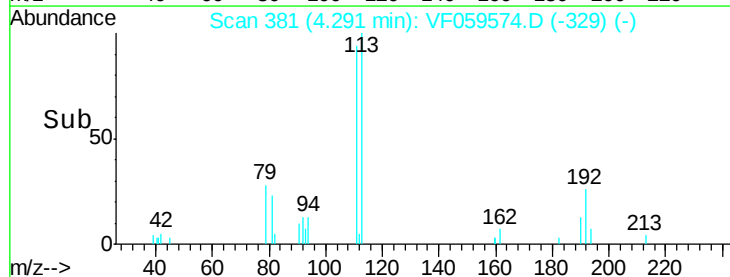
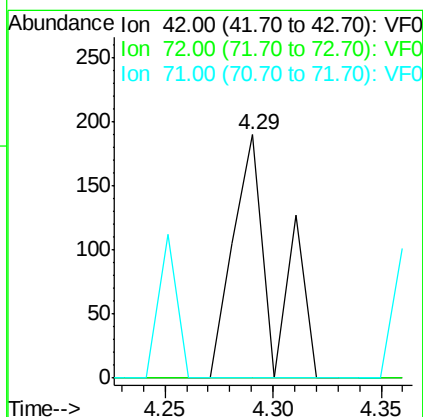
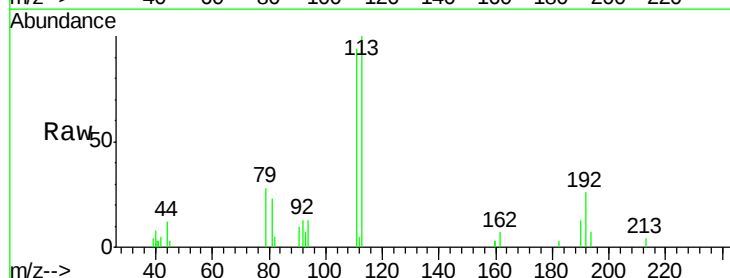
Tgt Ion: 42 Resp: 250

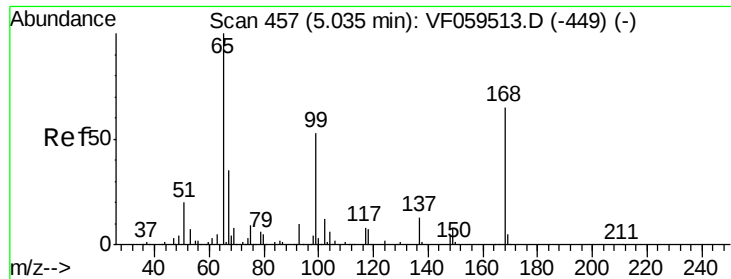
Ion Ratio Lower Upper

42 100

72 0.0 28.7 43.1#

71 0.0 30.8 46.2#





#33

1,2-Dichloroethane-d4

Concen: 16.832 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

Instrument :

MSVOA_F

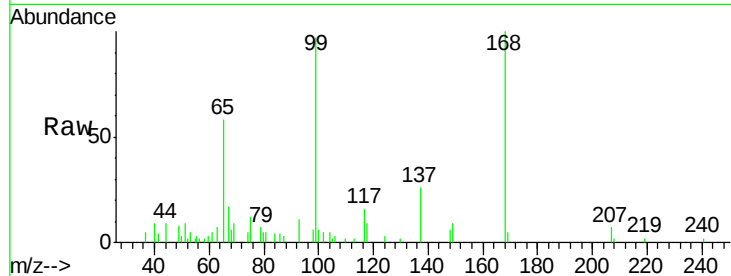
ClientSampleId :

Tot Ion: 65 Resp: 11272

Ion Ratio Lower Upper

65 100

67 29.9 0.0 91.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4000

3000

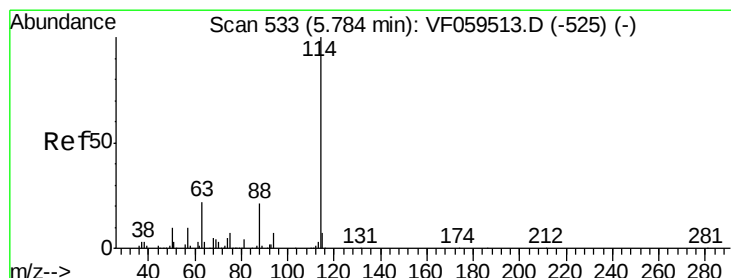
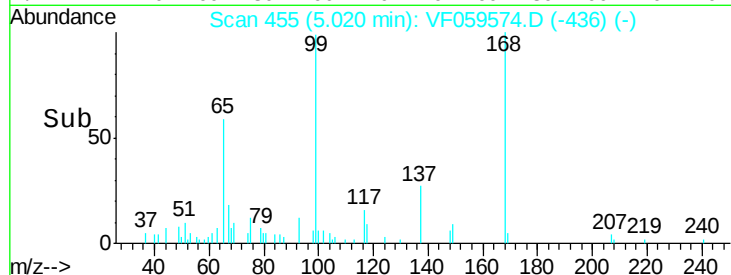
2000

1000

0

4.90 5.00 5.10 5.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

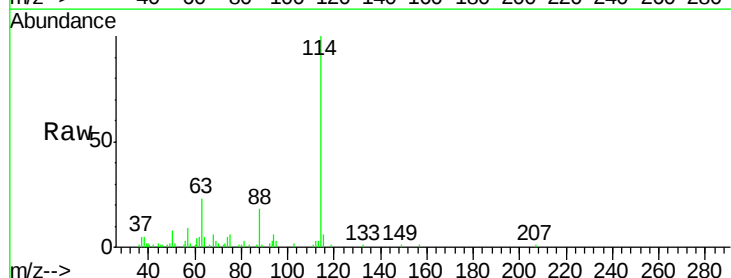
Tgt Ion: 114 Resp: 49794

Ion Ratio Lower Upper

114 100

63 23.1 0.0 44.8

88 18.2 0.0 42.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

20000

15000

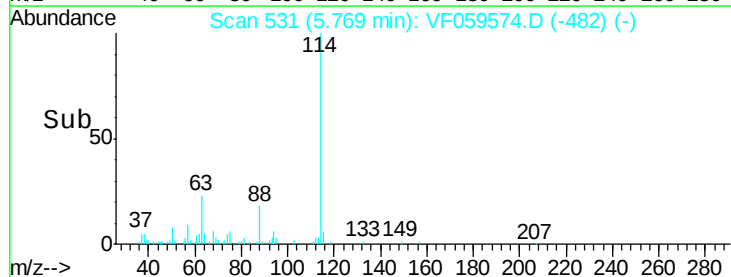
10000

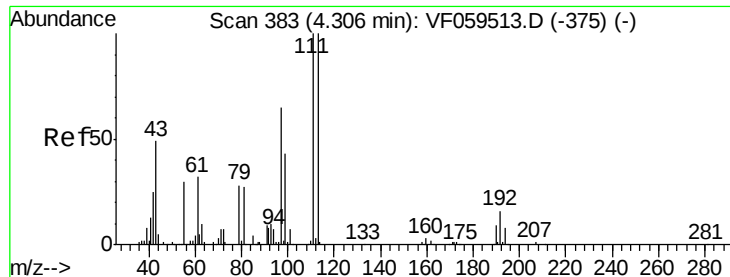
5000

0

5.60 5.70 5.80 5.90

Time-->





#35

Dibromofluoromethane

Concen: 32.834 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

Instrument :
MSVOA_F
ClientSampled :

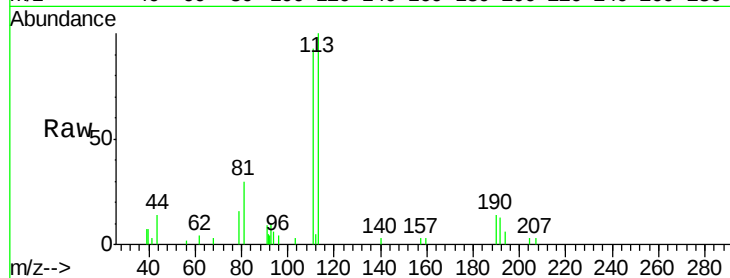
Tot Ion:113 Resp: 14160

Ion Ratio Lower Upper

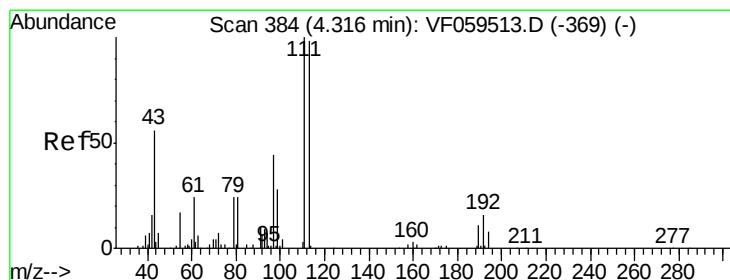
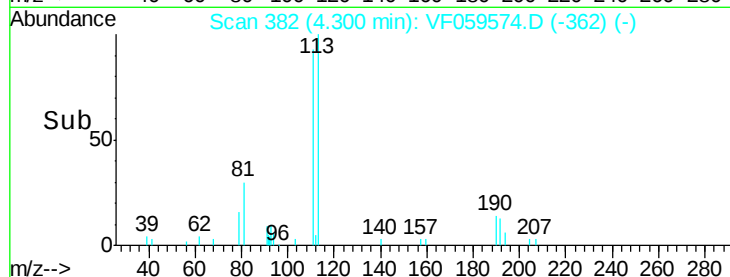
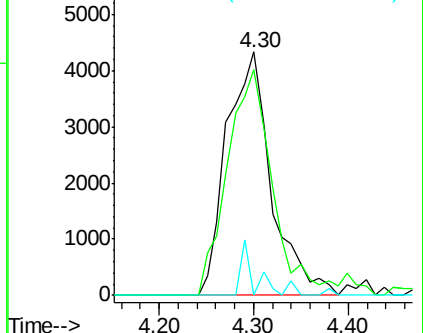
113 100

111 92.9 80.3 120.5

192 0.0 13.1 19.7#



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.31 min Scan# 383

Delta R.T. -0.00 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

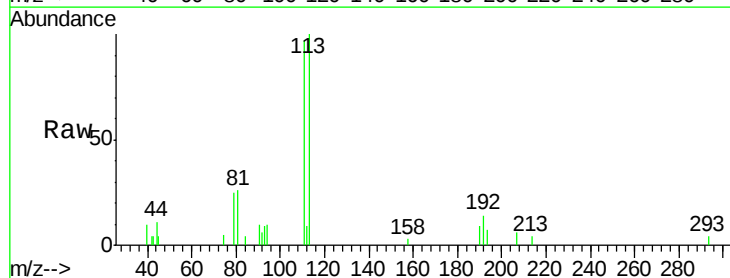
Tgt Ion: 43 Resp: 134

Ion Ratio Lower Upper

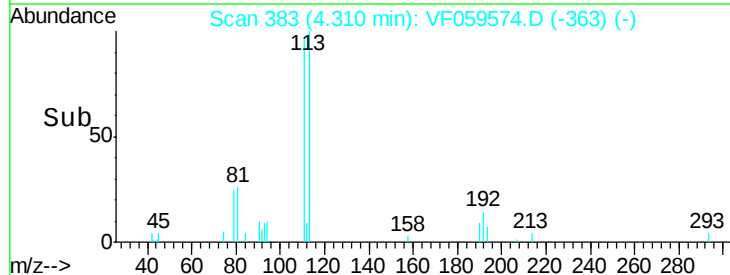
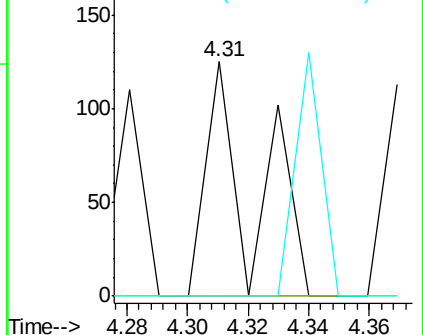
43 100

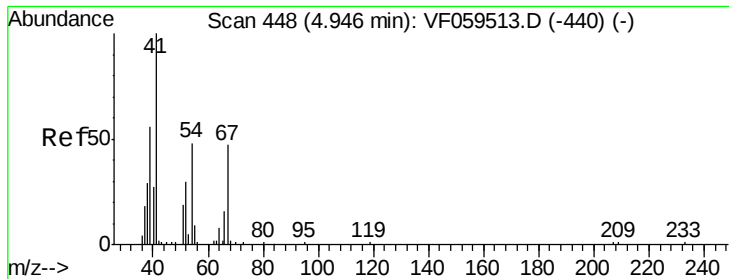
61 0.0 33.7 50.5#

70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0





#41

Methacrylonitrile

Concen: 1.539 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.00 min

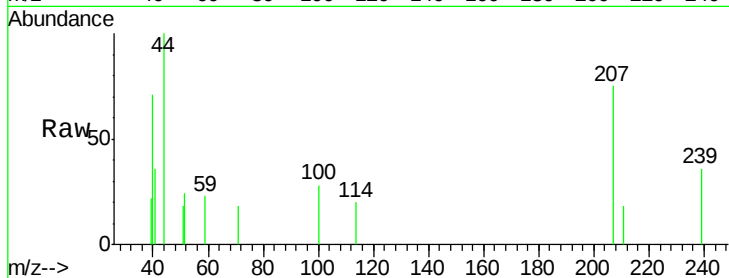
Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

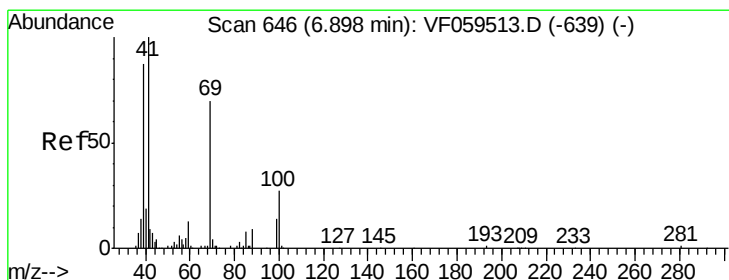
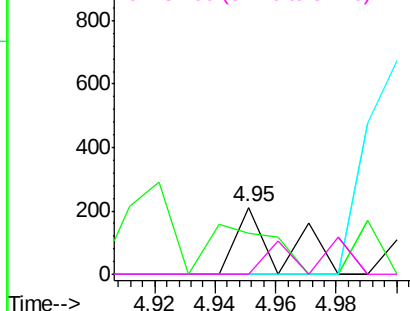
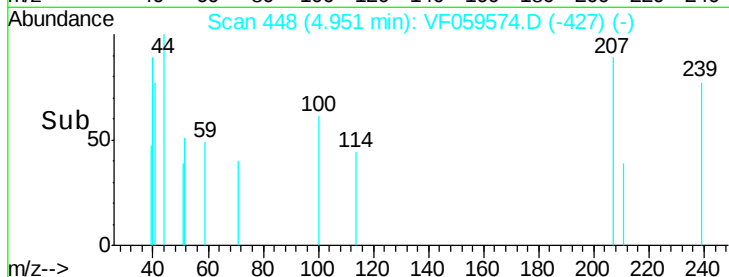
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 41 Resp: 220

Ion	Ratio	Lower	Upper
41	100		
39	61.6	49.4	74.0
67	0.0	37.4	56.2#
52	0.0	32.1	48.1#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0



#49

1,4-Dioxane

Concen: 45.103 ug/l

RT: 6.68 min Scan# 623

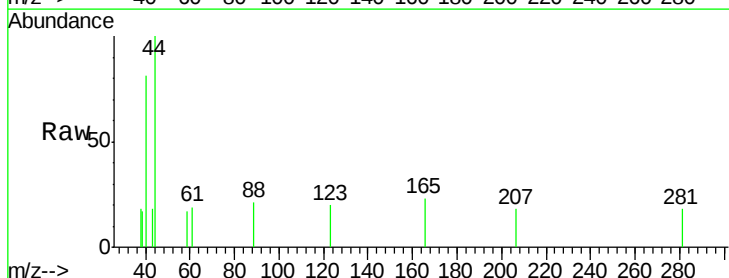
Delta R.T. -0.22 min

Lab File: VF059574.D

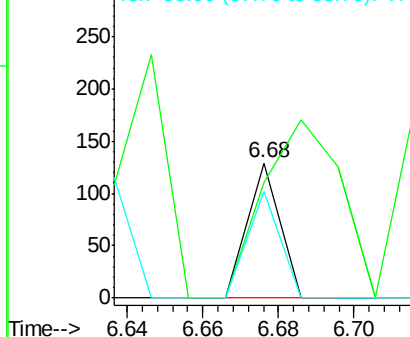
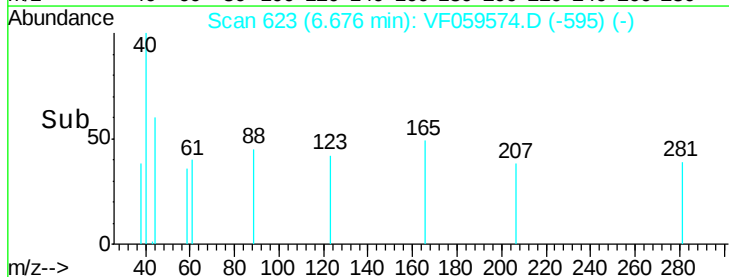
Acq: 20 Jul 2018 00:08

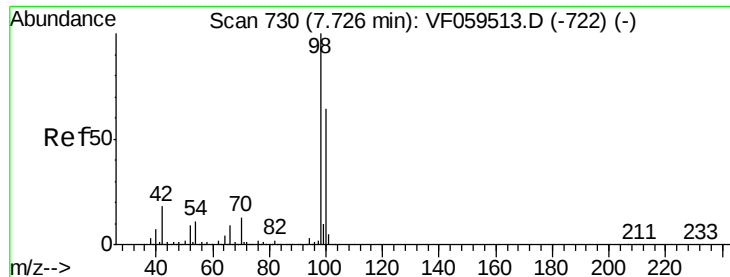
Tgt Ion: 88 Resp: 76

Ion	Ratio	Lower	Upper
88	100		
43	85.3	64.8	97.2
58	79.1	44.1	66.1#



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: 30.968 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

Instrument :

MSVOA_F

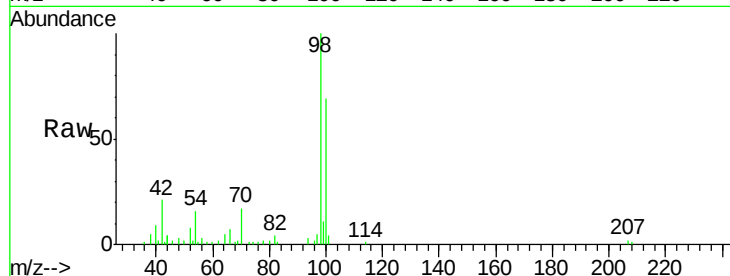
ClientSampled :

Tot Ion: 98 Resp: 33641

Ion Ratio Lower Upper

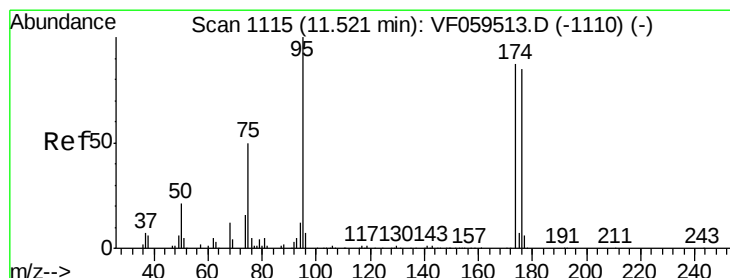
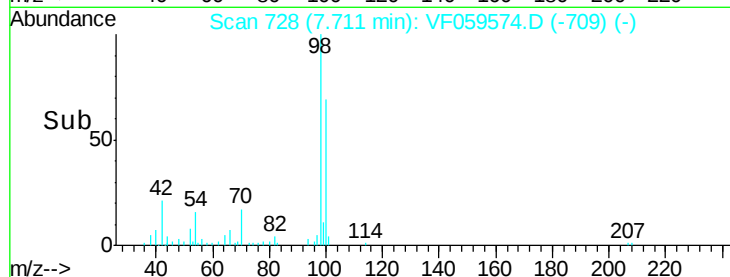
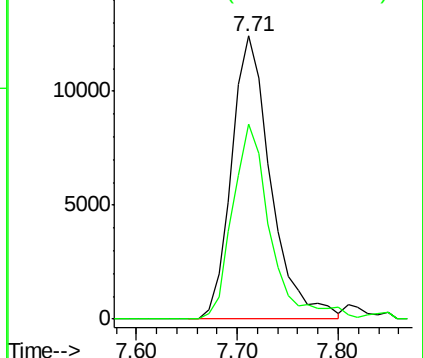
98 100

100 69.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#62

4-Bromofluorobenzene

Concen: 17.332 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VF059574.D

Acq: 20 Jul 2018 00:08

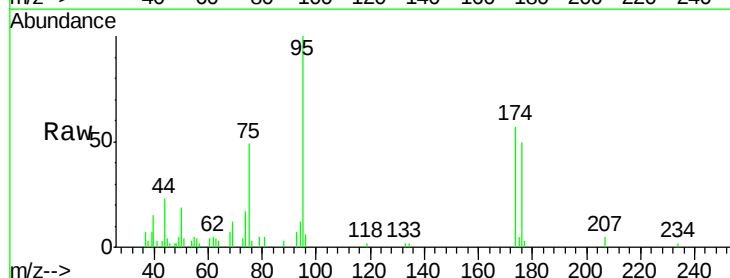
Tgt Ion: 95 Resp: 9877

Ion Ratio Lower Upper

95 100

174 56.6 0.0 174.4

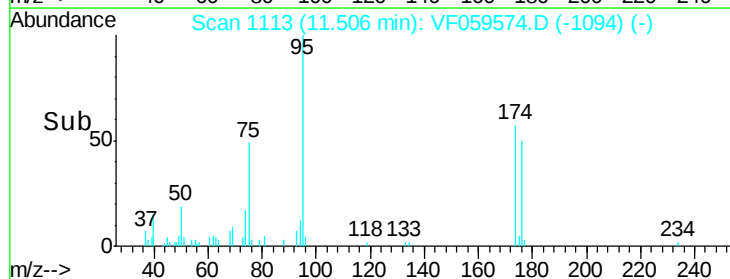
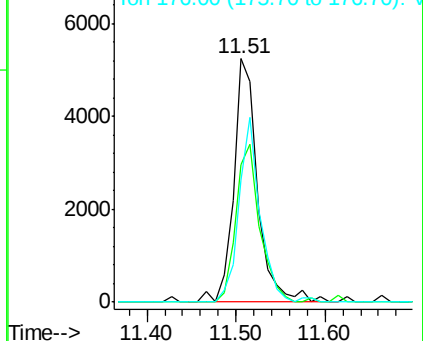
176 50.1 0.0 169.4

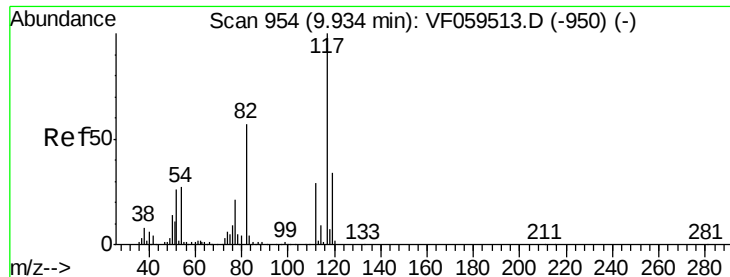


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

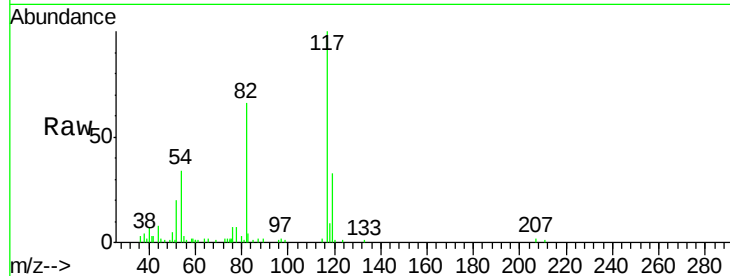




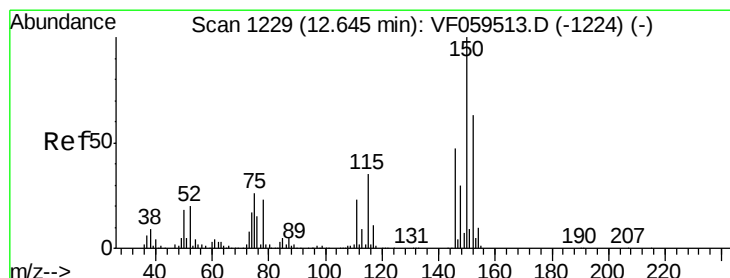
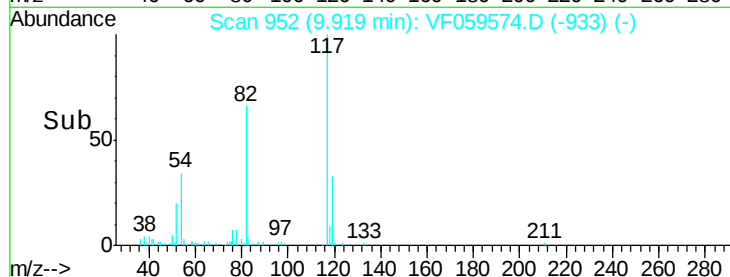
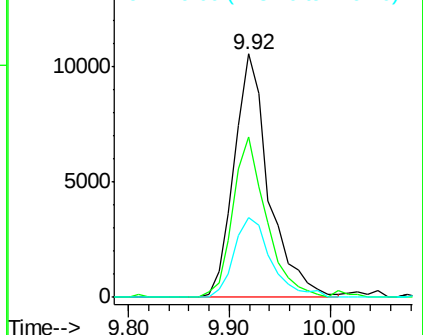
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF059574.D
Acq: 20 Jul 2018 00:08

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 25419
Ion Ratio Lower Upper
117 100
82 66.0 46.1 69.1
119 33.0 27.2 40.8

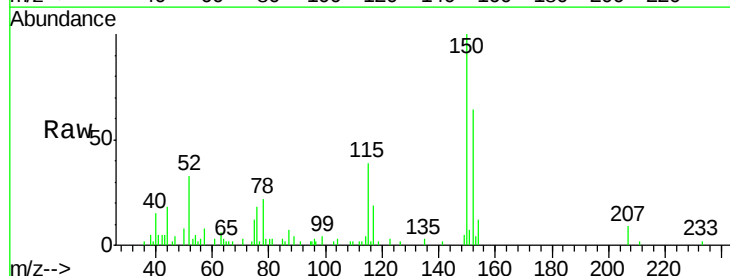


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

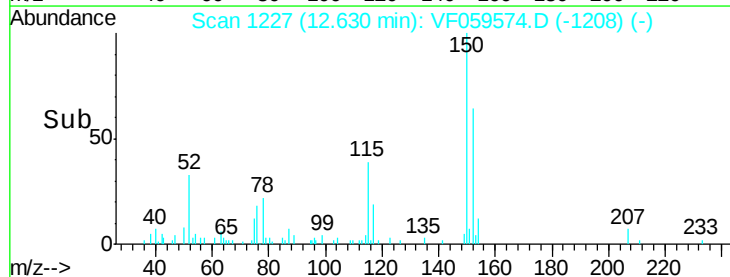
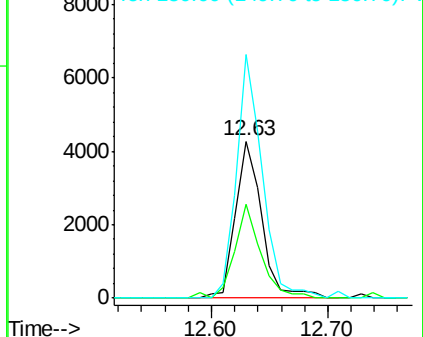


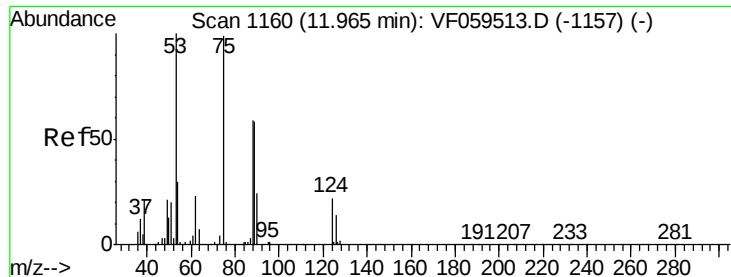
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.02 min
Lab File: VF059574.D
Acq: 20 Jul 2018 00:08

Tgt Ion:152 Resp: 6723
Ion Ratio Lower Upper
152 100
115 59.9 27.8 83.3
150 155.4 0.0 318.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V

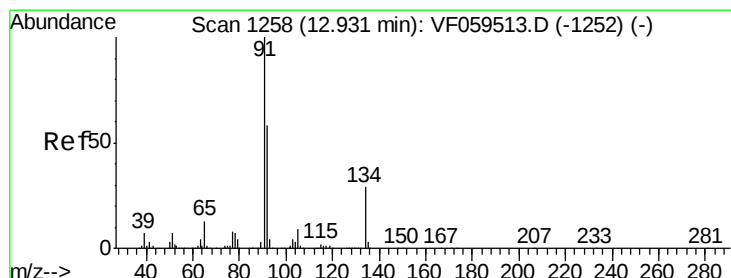
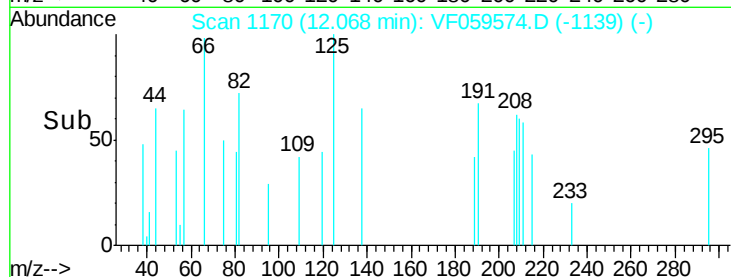
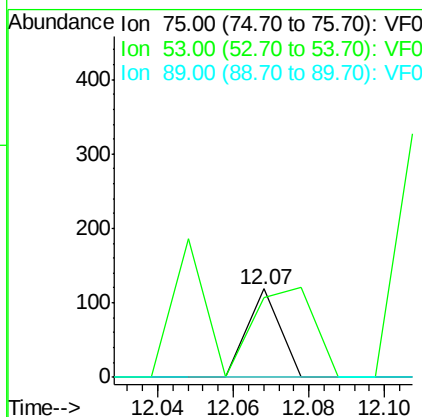
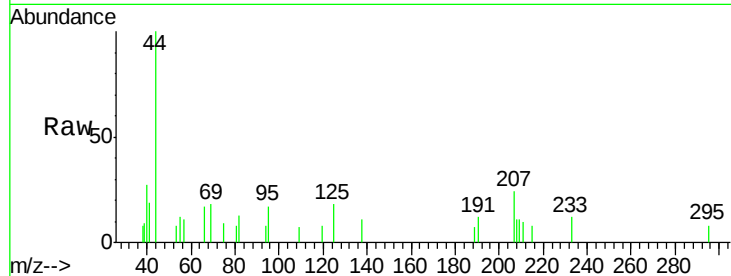




#81
trans-1,4-Dichloro-2-butene
Concen: 2.028 ug/l
RT: 12.07 min Scan# 1170
Delta R.T. 0.10 min
Lab File: VF059574.D
Acq: 20 Jul 2018 00:08

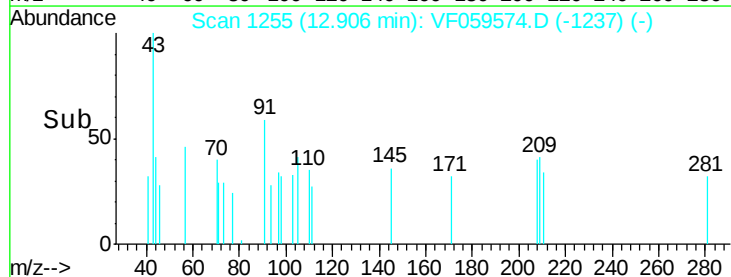
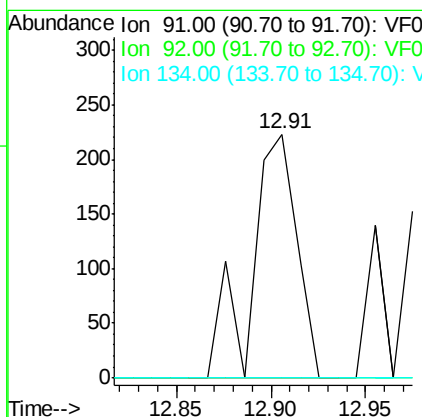
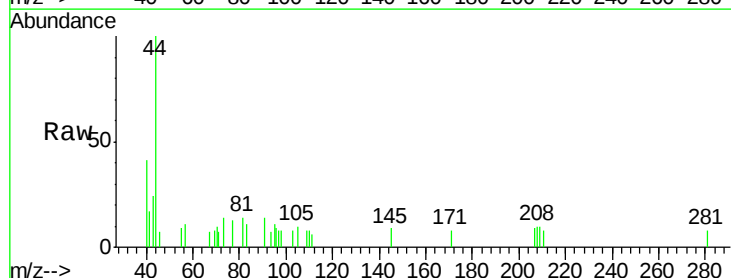
Instrument :
MSVOA_F
ClientSampled :

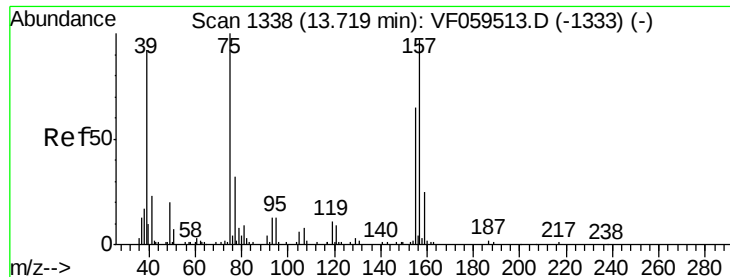
Tot Ion: 75 Resp: 70
Ion Ratio Lower Upper
75 100
53 89.9 84.6 127.0
89 0.0 48.2 72.4#



#89
n-Butylbenzene
Concen: 1.059 ug/l
RT: 12.91 min Scan# 1255
Delta R.T. -0.02 min
Lab File: VF059574.D
Acq: 20 Jul 2018 00:08

Tgt Ion: 91 Resp: 374
Ion Ratio Lower Upper
91 100
92 0.0 29.1 87.3#
134 0.0 14.3 42.9#

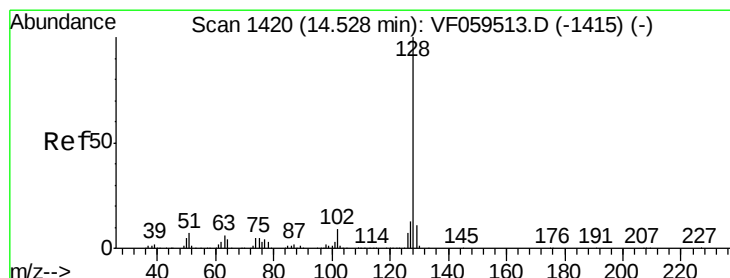
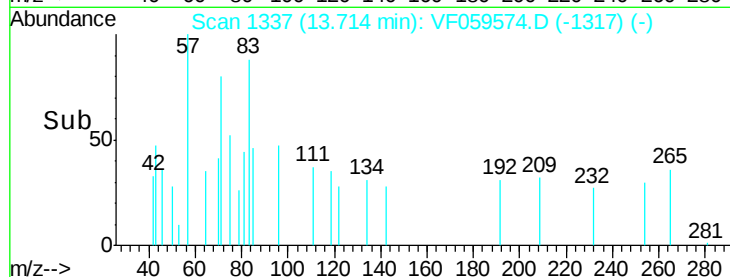
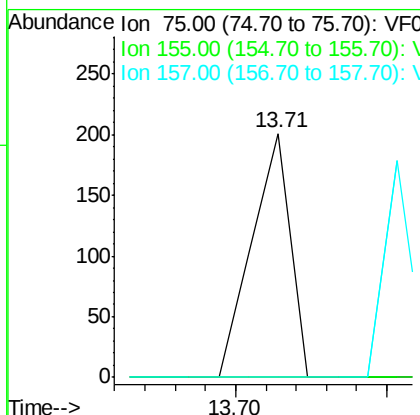
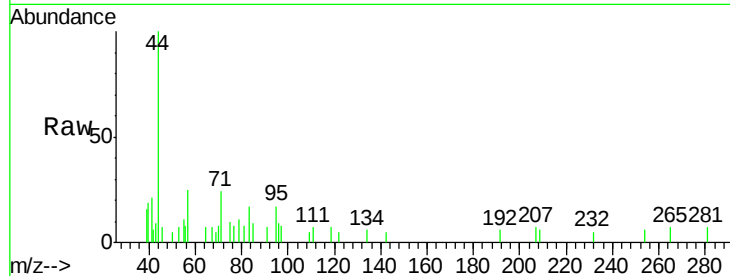




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.539 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VF059574.D
 Acq: 20 Jul 2018 00:08

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion: 75 Resp: 179
 Ion Ratio Lower Upper
 75 100
 155 0.0 32.8 98.3#
 157 0.0 48.5 145.5#



#95
 Naphthalene
 Concen: 6.797 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: VF059574.D
 Acq: 20 Jul 2018 00:08

Tgt Ion: 128 Resp: 1674
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 19.8 9.0 13.4#

