

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032019\
 Data File : VF062039.D
 Acq On : 20 Mar 2019 14:44
 Operator : VA/AP
 Sample : K1971-04RE
 Misc : 5.40g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-9(7-8)-031519RE

Quant Time: Mar 20 17:00:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	2990	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	3327	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	969	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	74	50.00	ug/l	0.10

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	403	18.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.44%	
35) Dibromofluoromethane	4.09	113	839	37.55	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	75.10%	
50) Toluene-d8	7.54	98	3366	51.54	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	11.37	95	517	19.93	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	39.86%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.79	85	70	2.196	ug/l #	44
3) Chloromethane	1.10	50	269	8.305	ug/l #	46
5) Bromomethane	1.37	94	300	13.632	ug/l #	3
6) Chloroethane	1.25	64	108	6.678	ug/l #	40
8) Diethyl Ether	1.62	74	125	13.548	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.87	101	91	3.112	ug/l #	18
12) 1,1-Dichloroethene	1.79	96	67	2.655	ug/l #	1
13) Acrolein	2.01	56	276	194.125	ug/l #	11
14) Allyl chloride	2.12	41	322	9.996	ug/l #	34
15) Acrylonitrile	2.96	53	202	50.437	ug/l #	18
16) Acetone	2.12	43	702	145.248	ug/l	96
17) Carbon Disulfide	1.75	76	211	2.891	ug/l #	1
18) Methyl Acetate	2.44	43	1052	106.393	ug/l #	63
19) Methyl tert-butyl Ether	2.43	73	134	2.930	ug/l #	58
20) Methylene Chloride	2.17	84	237	9.525	ug/l #	40
21) trans-1,2-Dichloroethene	2.33	96	112	4.253	ug/l #	14
22) Diisopropyl ether	2.76	45	498	6.427	ug/l #	49
23) Vinyl Acetate	3.22	43	384	12.572	ug/l #	77
24) 1,1-Dichloroethane	2.91	63	70	1.554	ug/l #	86
25) 2-Butanone	4.30	43	1680	175.515	ug/l #	51
26) 2,2-Dichloropropane	3.42	77	141	6.635	ug/l #	54
27) cis-1,2-Dichloroethene	3.35	96	133	4.007	ug/l	1
29) Tetrahydrofuran	4.06	42	626	150.382	ug/l #	33
31) Cyclohexane	3.68	56	68	1.541	ug/l #	16
37) Ethyl Acetate	4.11	43	260	19.273	ug/l #	1
39) Methylcyclohexane	5.48	83	3397	96.310	ug/l #	38
40) Benzene	4.62	78	291	3.655	ug/l #	52
41) Methacrylonitrile	4.73	41	264	36.628	ug/l #	22
43) Isopropyl Acetate	6.93	43	533	33.394	ug/l #	38
45) 1,2-Dichloropropane	6.28	63	62	3.291	ug/l #	45
48) Methyl methacrylate	6.66	41	2121	205.611	ug/l	91
51) 4-Methyl-2-Pentanone	8.21	43	1279	112.845	ug/l #	36
52) Toluene	7.61	92	356	7.319	ug/l #	22
53) t-1,3-Dichloropropene	8.14	75	76	3.407	ug/l #	43

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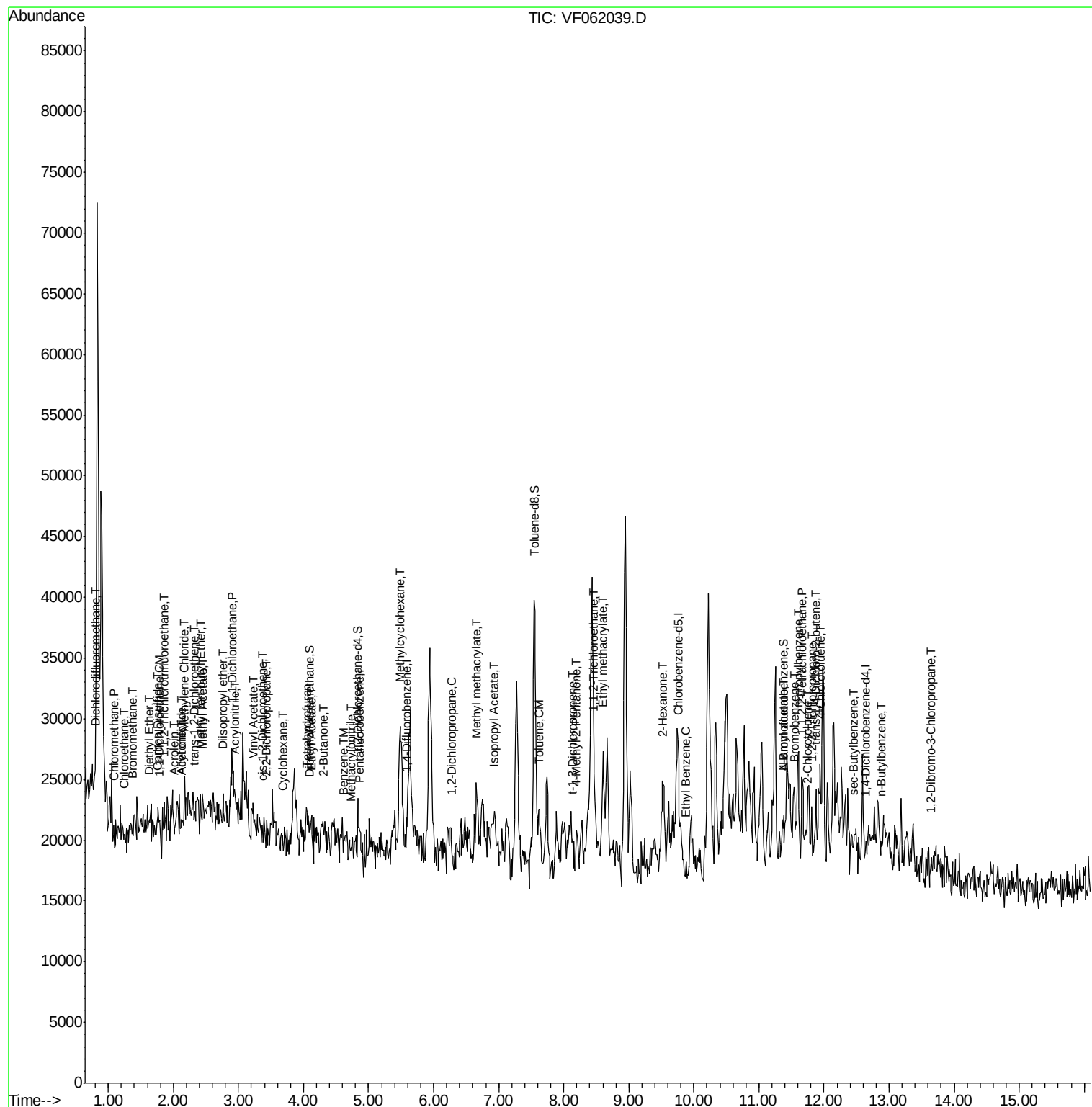
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) 1,1,2-Trichloroethane	8.47	97	67	4.935	ug/l #	1
56) Ethyl methacrylate	8.61	69	3783	245.130	ug/l #	78
59) 2-Hexanone	9.51	43	1240	151.171	ug/l #	23
67) Ethyl Benzene	9.88	91	63	2.039	ug/l #	44
74) N-amyl acetate	11.37	43	2528	2158.051	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	11.68	83	1604	1900.803	ug/l #	22
76) 1,2,3-Trichloropropane	11.82	75	62	105.072	ug/l #	42
77) Bromobenzene	11.56	156	61	51.523	ug/l #	1
78) n-propylbenzene	11.60	91	61	10.377	ug/l #	1
79) 2-Chlorotoluene	11.74	91	143	43.097	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.88	75	60	229.848	ug/l #	24
82) 4-Chlorotoluene	11.93	91	151	45.001	ug/l #	39
85) sec-Butylbenzene	12.45	105	64	10.968	ug/l #	57
89) n-Butylbenzene	12.88	91	60	13.114	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.66	75	60	443.083	ug/l #	1

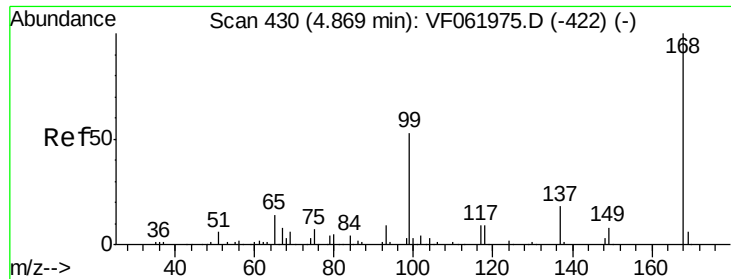
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

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Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

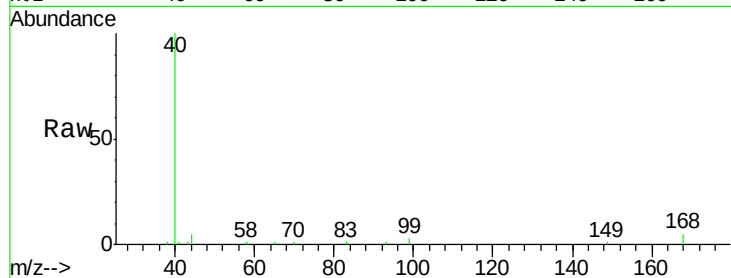
SB-9(7-8)-031519RE

Tot Ion:168 Resp: 2990

Ion Ratio Lower Upper

168 100

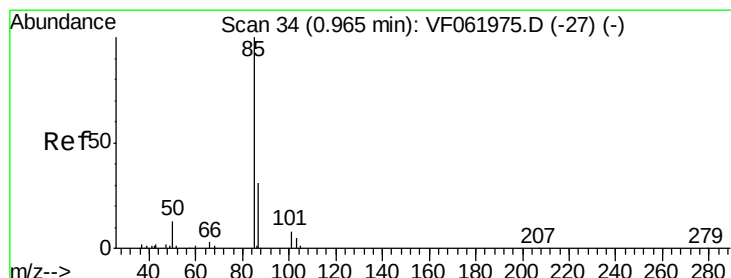
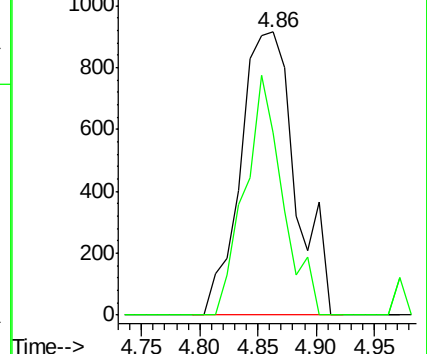
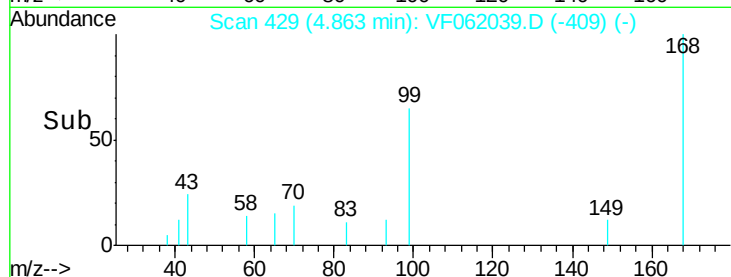
99 64.6 42.4 63.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.196 ug/l

RT: 0.79 min Scan# 16

Delta R.T. -0.17 min

Lab File: VF062039.D

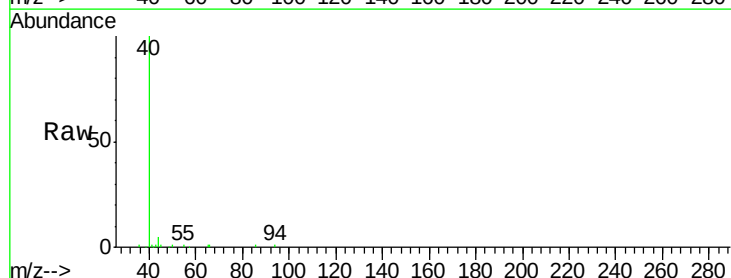
Acq: 20 Mar 2019 14:44

Tgt Ion: 85 Resp: 70

Ion Ratio Lower Upper

85 100

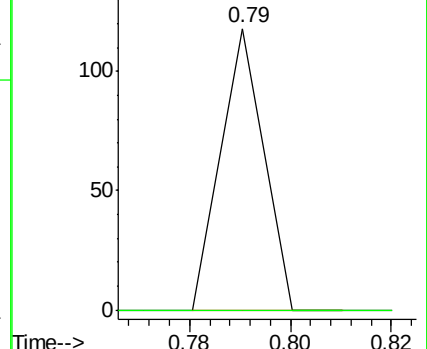
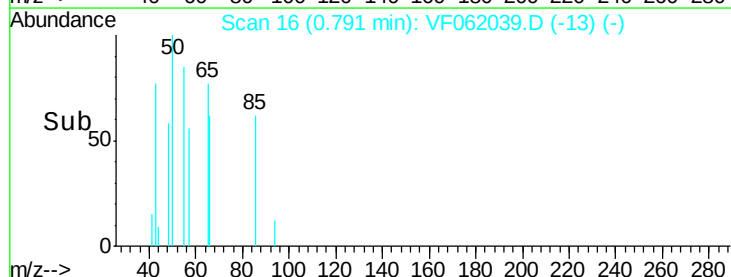
87 0.0 15.4 46.2#

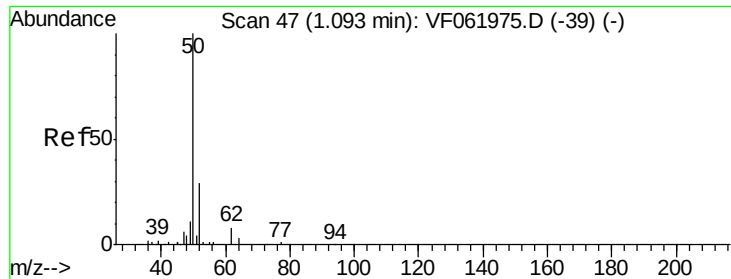


Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Time-->





#3

Chloromethane

Concen: 8.305 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

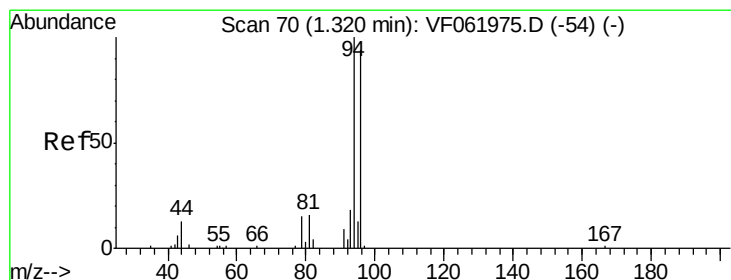
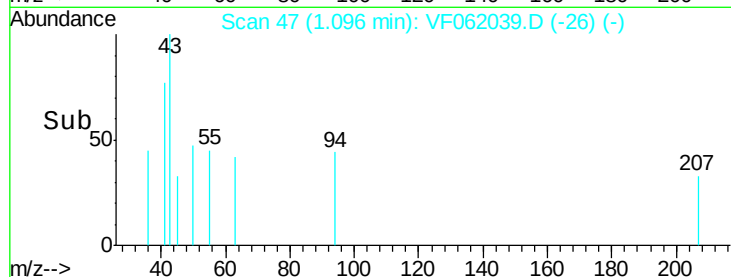
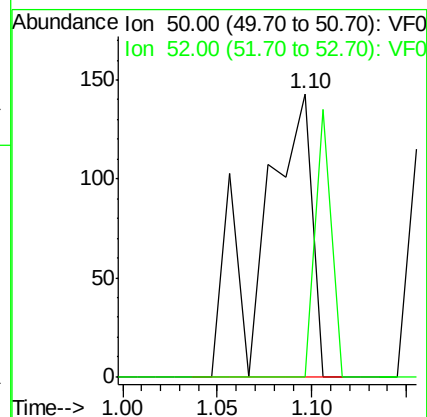
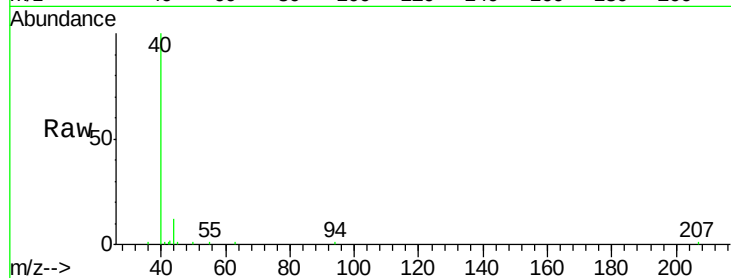
SB-9(7-8)-031519RE

Tot Ion: 50 Resp: 269

Ion Ratio Lower Upper

50 100

52 0.0 22.6 34.0#



#5

Bromomethane

Concen: 13.632 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.05 min

Lab File: VF062039.D

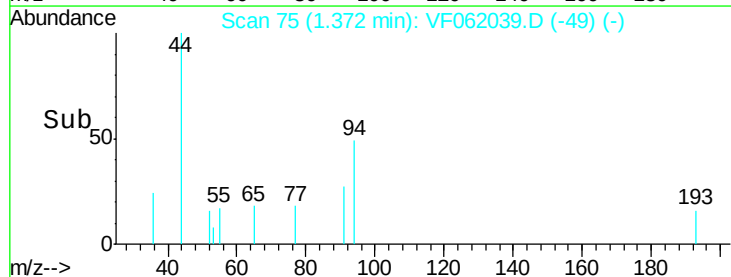
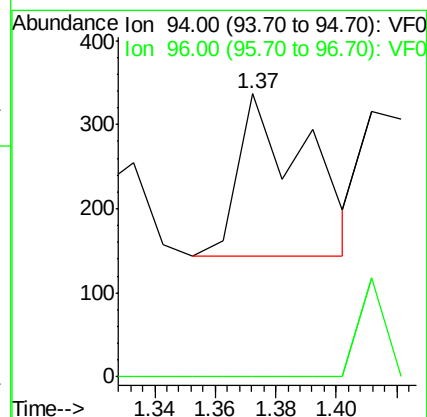
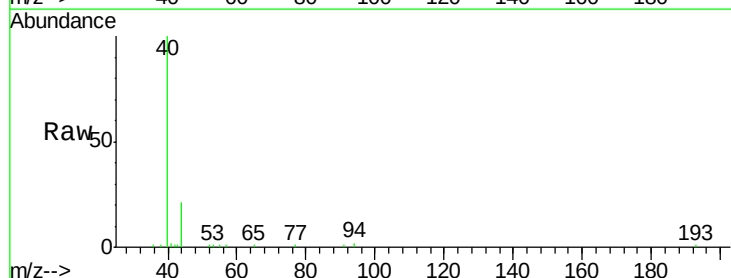
Acq: 20 Mar 2019 14:44

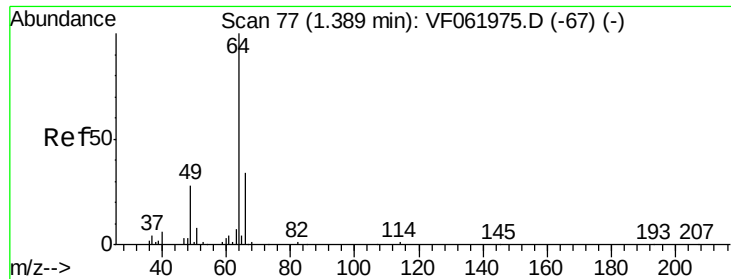
Tgt Ion: 94 Resp: 300

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#





#6

Chloroethane

Concen: 6.678 ug/l

RT: 1.25 min Scan# 63

Delta R.T. -0.13 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

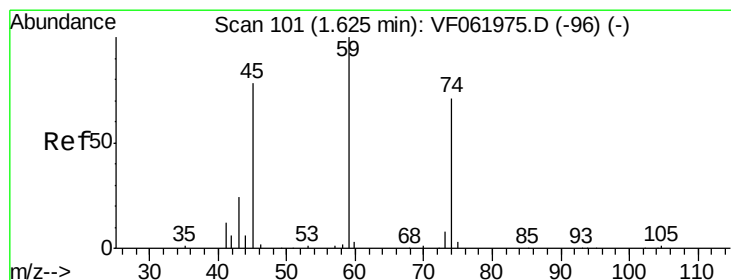
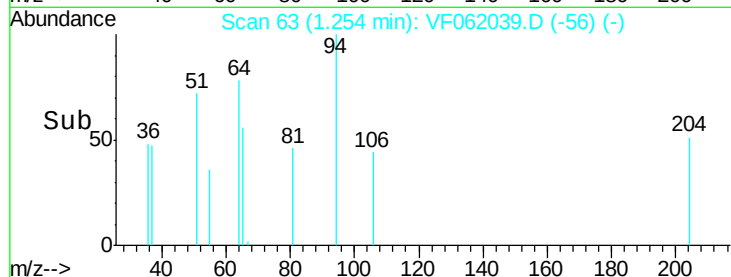
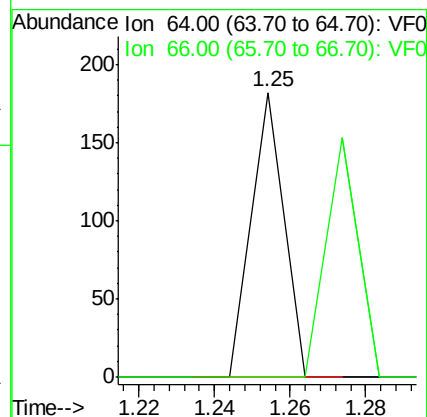
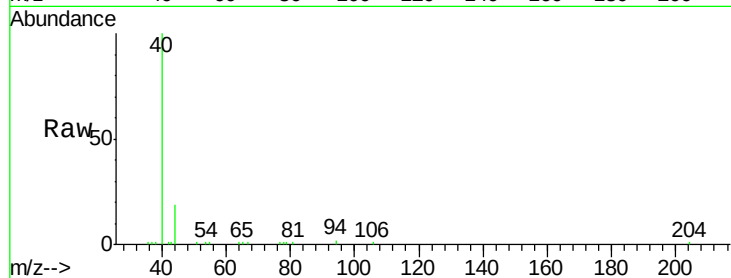
SB-9(7-8)-031519RE

Tot Ion: 64 Resp: 108

Ion Ratio Lower Upper

64 100

66 0.0 27.6 41.4#



#8

Diethyl Ether

Concen: 13.548 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.01 min

Lab File: VF062039.D

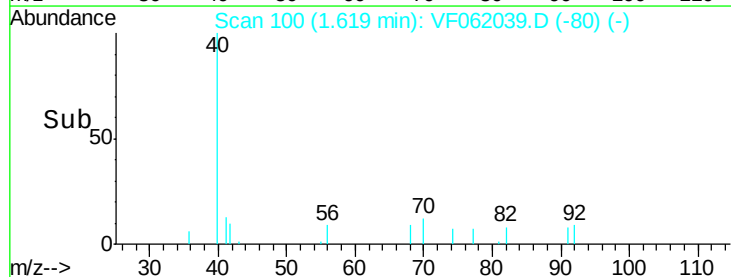
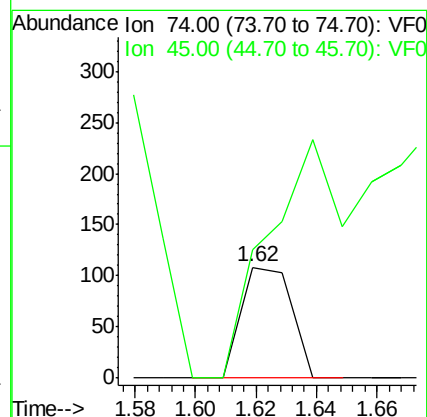
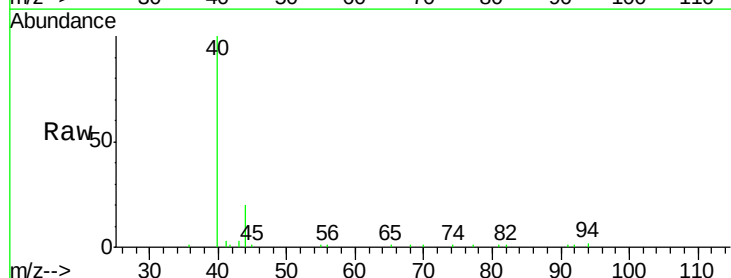
Acq: 20 Mar 2019 14:44

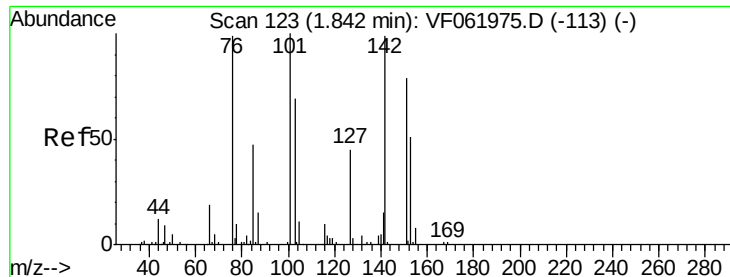
Tgt Ion: 74 Resp: 125

Ion Ratio Lower Upper

74 100

45 115.7 56.3 168.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.112 ug/l

RT: 1.87 min Scan# 125

Delta R.T. 0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

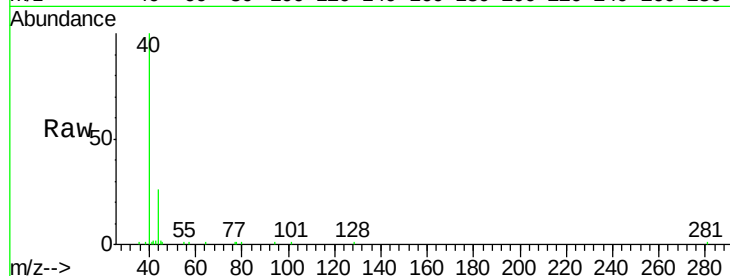
Tot Ion:101 Resp: 91

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

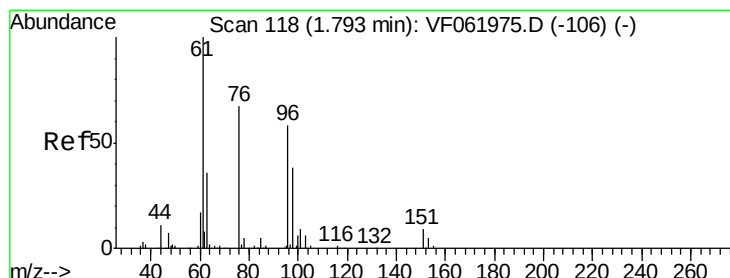
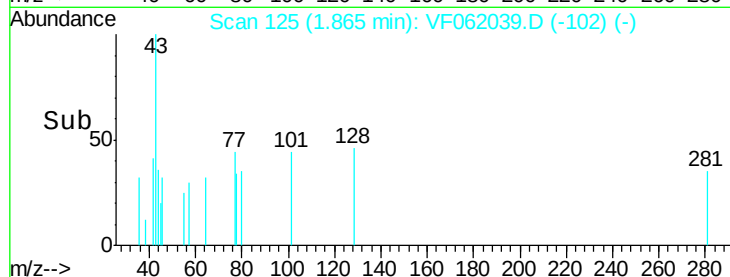
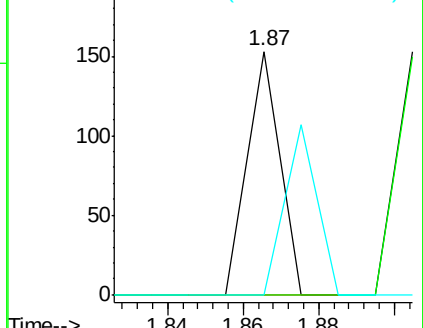
151 0.0 62.2 93.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.655 ug/l

RT: 1.79 min Scan# 117

Delta R.T. -0.01 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

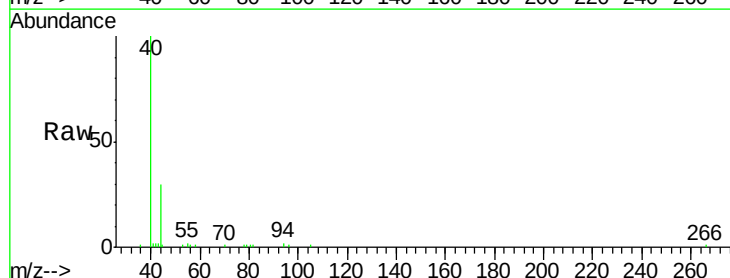
Tgt Ion: 96 Resp: 67

Ion Ratio Lower Upper

96 100

61 0.0 138.6 208.0#

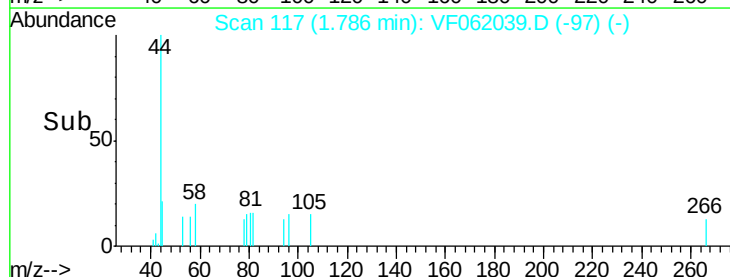
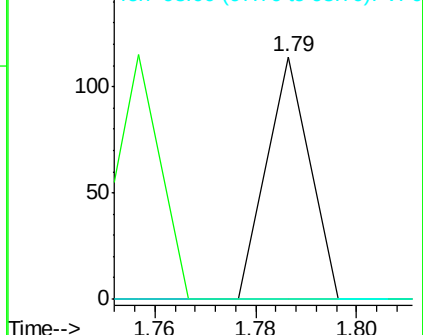
98 0.0 53.2 79.8#

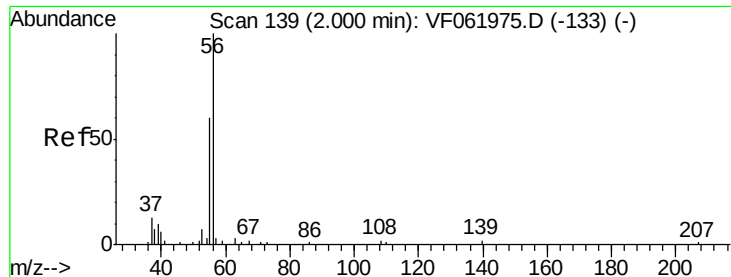


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#13

Acrolein

Concen: 194.125 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF062039.D

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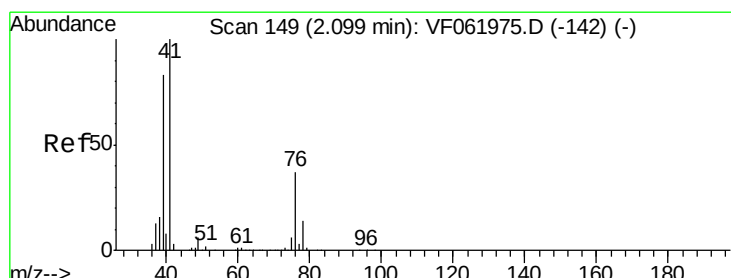
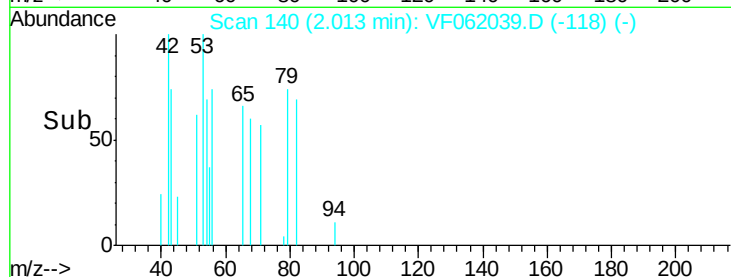
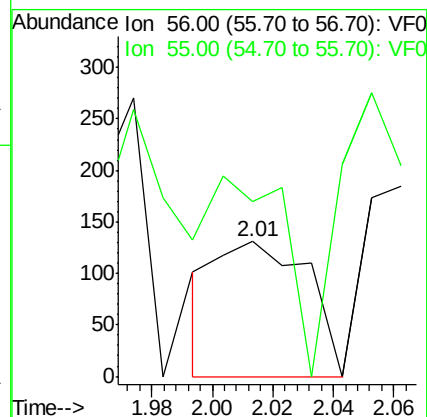
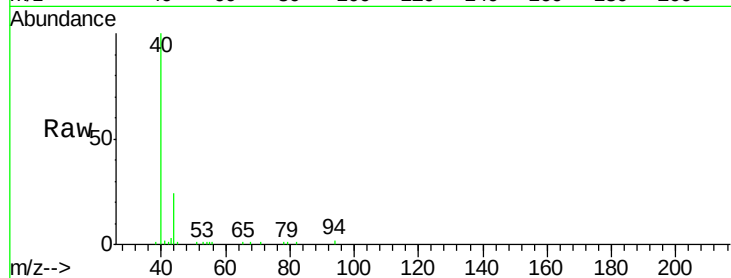
SB-9(7-8)-031519RE

Tot Ion: 56 Resp: 276

Ion Ratio Lower Upper

56 100

55 129.8 49.1 73.7#



#14

Allyl chloride

Concen: 9.996 ug/l

RT: 2.12 min Scan# 151

Delta R.T. 0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

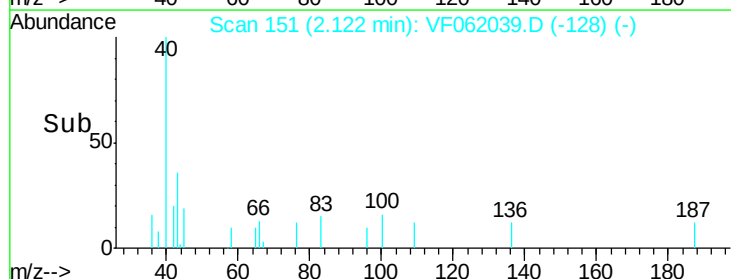
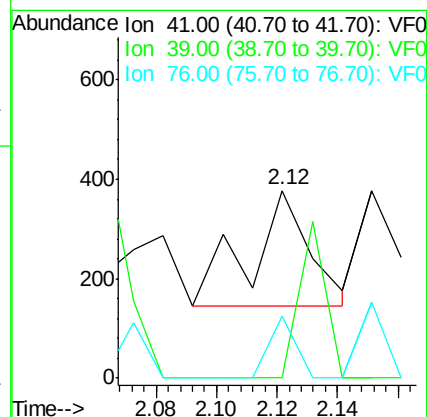
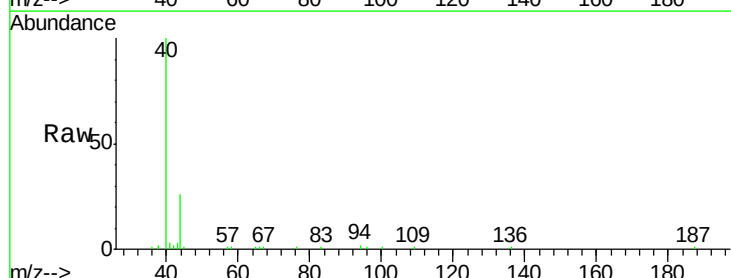
Tgt Ion: 41 Resp: 322

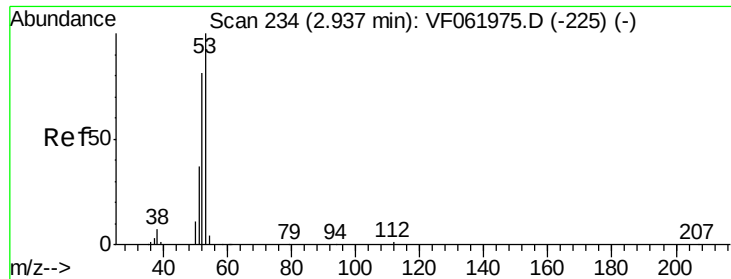
Ion Ratio Lower Upper

41 100

39 0.0 66.8 100.2#

76 33.2 31.1 46.7

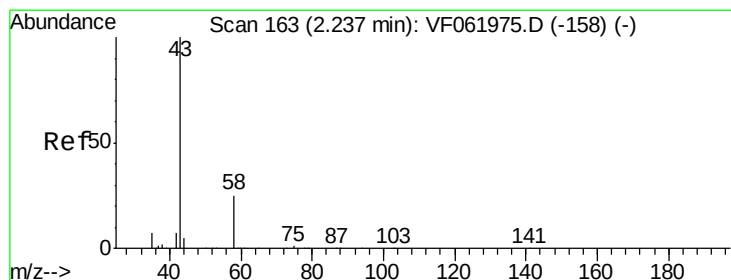
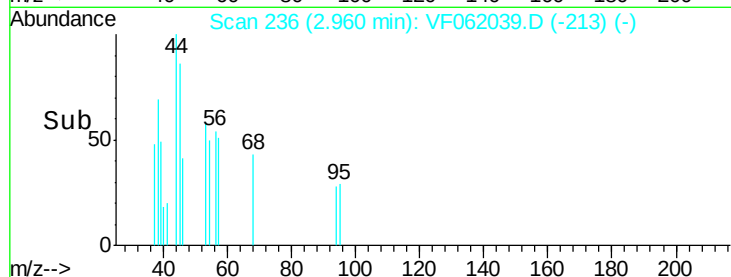
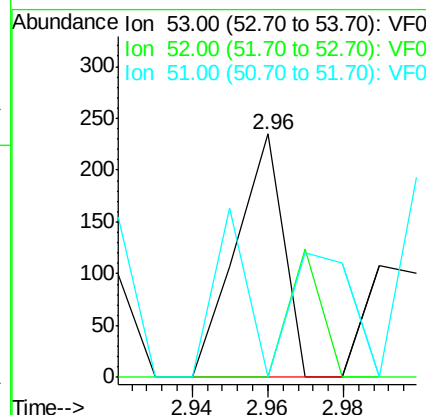
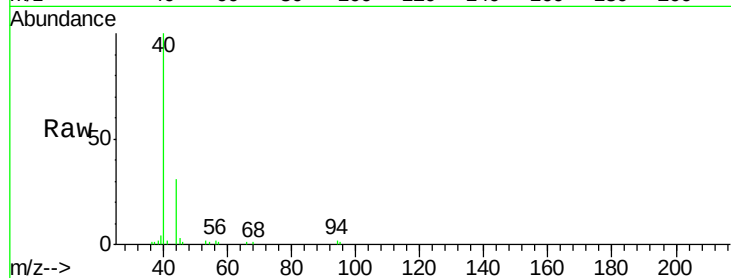




#15
Acrylonitrile
Concen: 50.437 ug/l
RT: 2.96 min Scan# 236
Delta R.T. 0.02 min
Lab File: VF062039.D
Acq: 20 Mar 2019 14:44

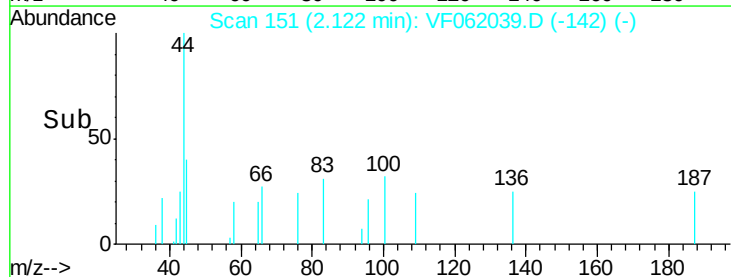
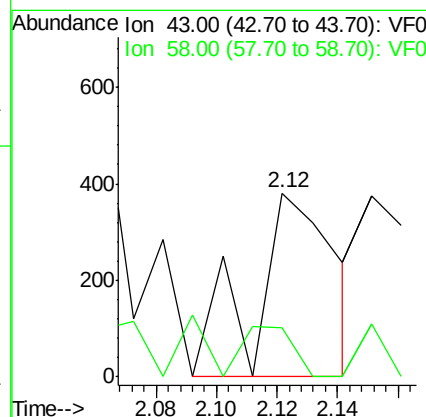
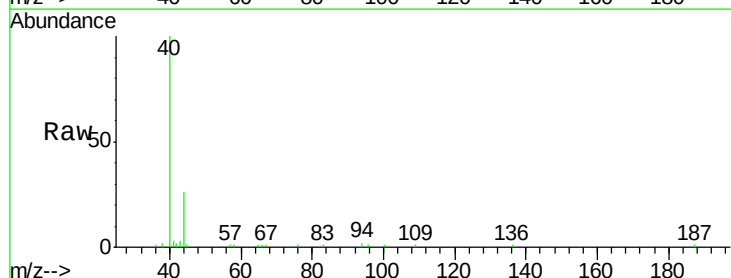
Instrument :
MSVOA_F
ClientSampleId :
SB-9(7-8)-031519RE

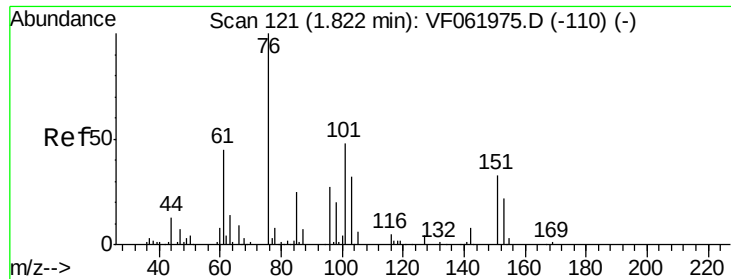
Tot Ion: 53 Resp: 202
Ion Ratio Lower Upper
53 100
52 0.0 64.4 96.6#
51 0.0 30.3 45.5#



#16
Acetone
Concen: 145.248 ug/l
RT: 2.12 min Scan# 151
Delta R.T. -0.11 min
Lab File: VF062039.D
Acq: 20 Mar 2019 14:44

Tgt Ion: 43 Resp: 702
Ion Ratio Lower Upper
43 100
58 26.8 19.9 29.9





#17

Carbon Disulfide

Concen: 2.891 ug/l

RT: 1.75 min Scan# 113

Delta R.T. -0.08 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

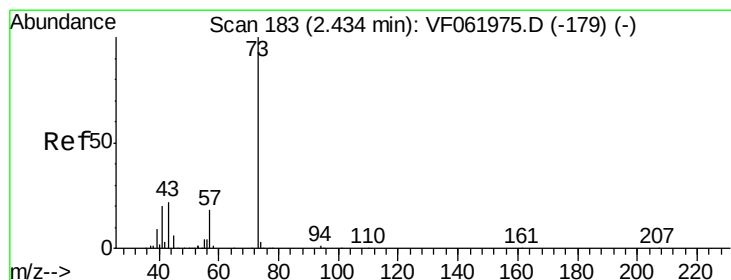
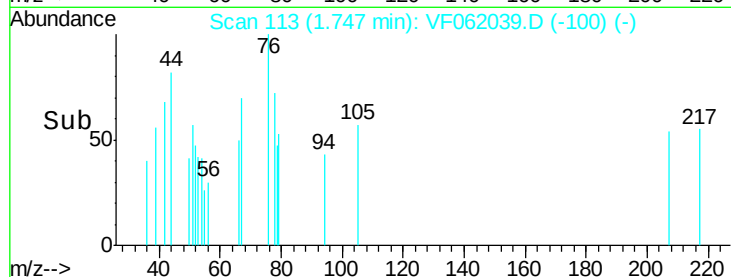
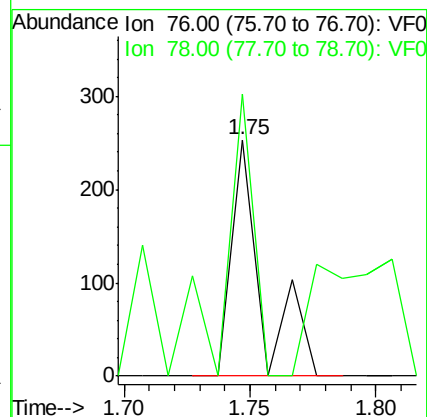
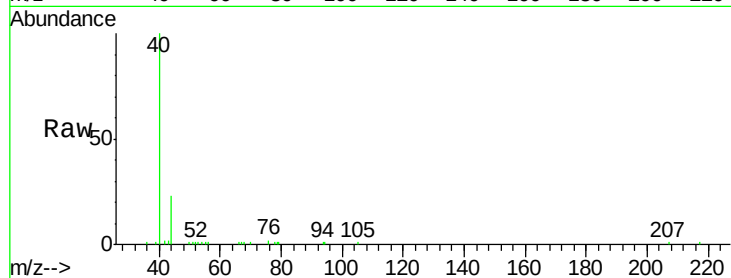
SB-9(7-8)-031519RE

Tot Ion: 76 Resp: 211

Ion Ratio Lower Upper

76 100

78 119.8 6.8 10.2#



#18

Methyl Acetate

Concen: 106.393 ug/l

RT: 2.44 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF062039.D

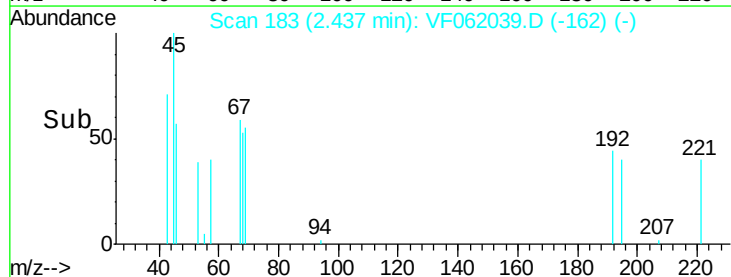
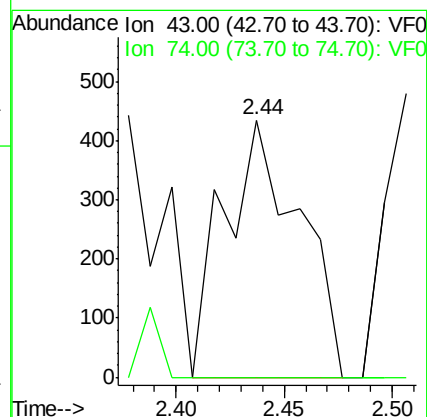
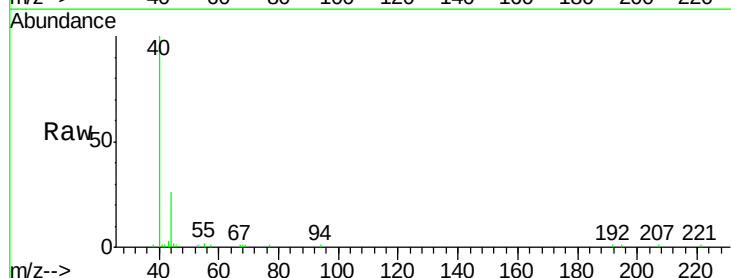
Acq: 20 Mar 2019 14:44

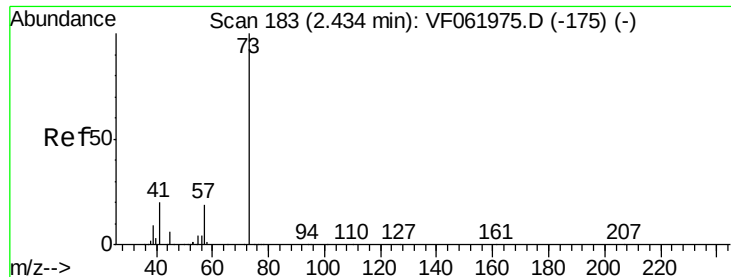
Tgt Ion: 43 Resp: 1052

Ion Ratio Lower Upper

43 100

74 0.0 12.6 18.8#



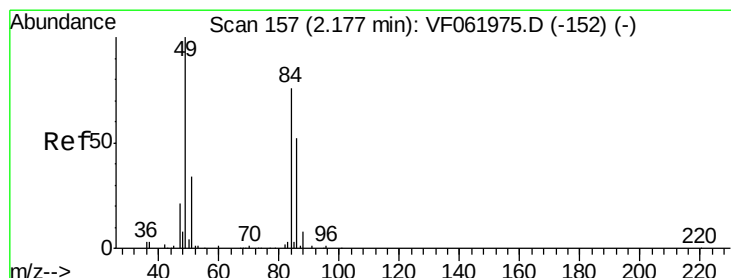
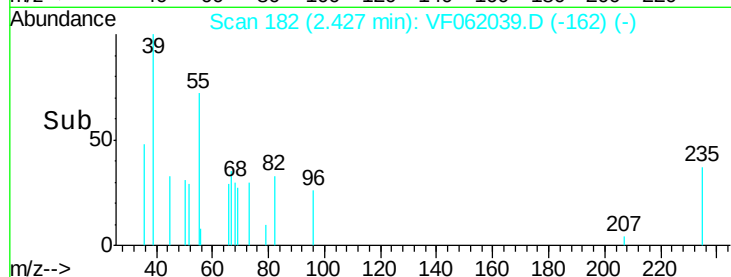
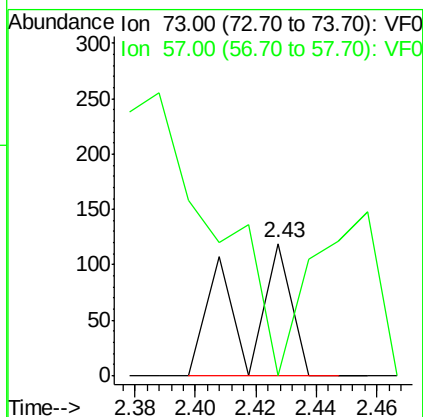
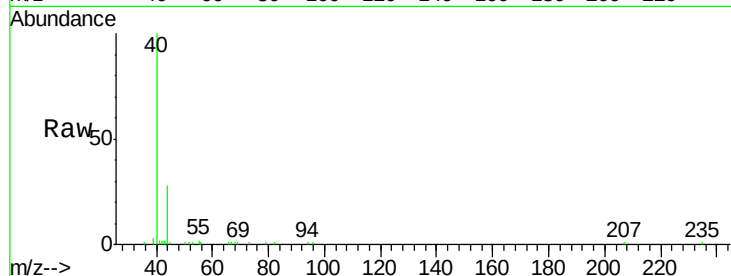


#19

Methyl tert-butyl Ether
 Concen: 2.930 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF062039.D
 Acq: 20 Mar 2019 14:44

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-9(7-8)-031519RE

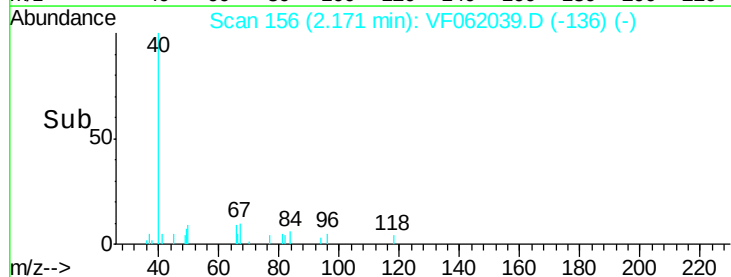
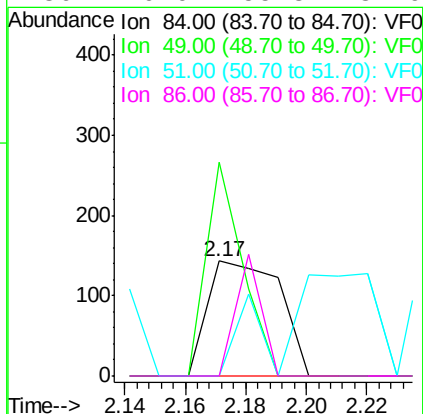
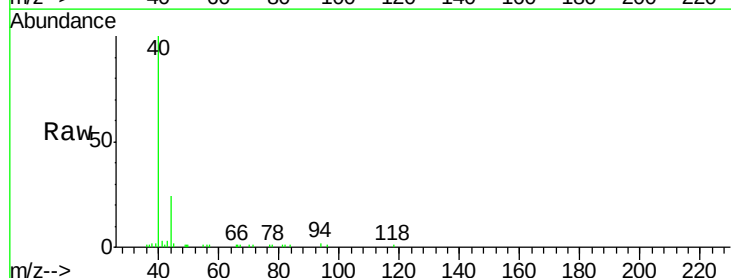
Tot Ion: 73 Resp: 134
 Ion Ratio Lower Upper
 73 100
 57 0.0 15.3 22.9#

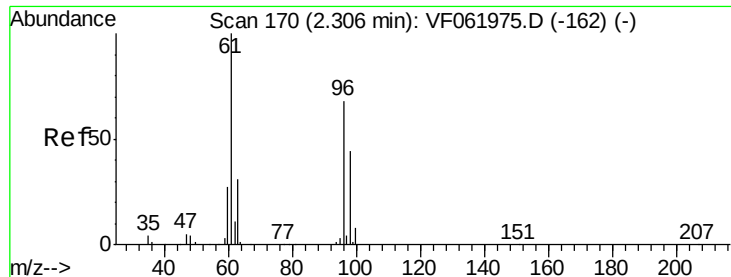


#20

Methylene Chloride
 Concen: 9.525 ug/l
 RT: 2.17 min Scan# 156
 Delta R.T. -0.01 min
 Lab File: VF062039.D
 Acq: 20 Mar 2019 14:44

Tgt Ion: 84 Resp: 237
 Ion Ratio Lower Upper
 84 100
 49 186.0 107.0 160.6#
 51 0.0 37.2 55.8#
 86 0.0 55.3 82.9#





#21

trans-1,2-Dichloroethene

Concen: 4.253 ug/l

RT: 2.33 min Scan# 172

Delta R.T. 0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

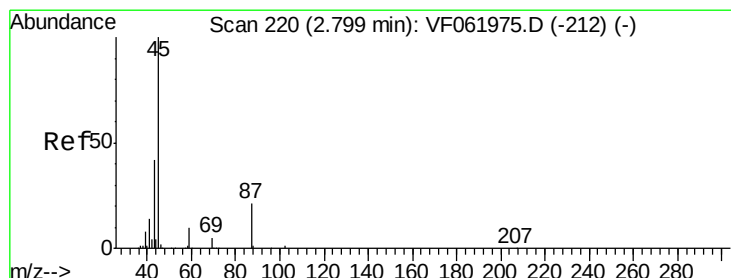
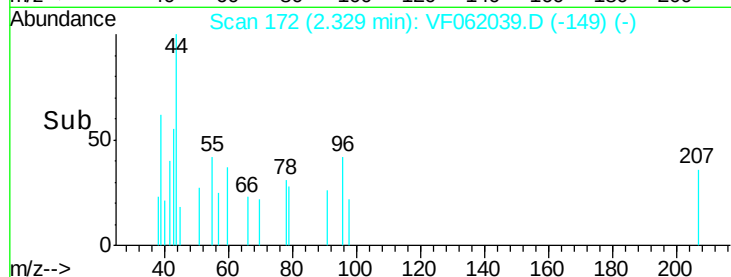
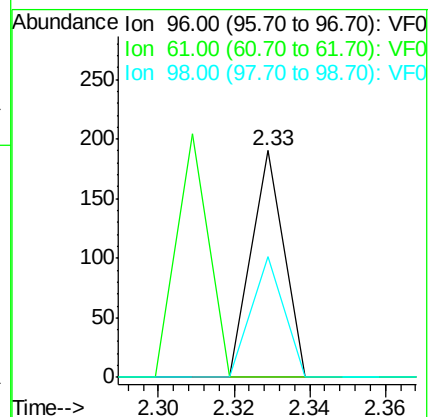
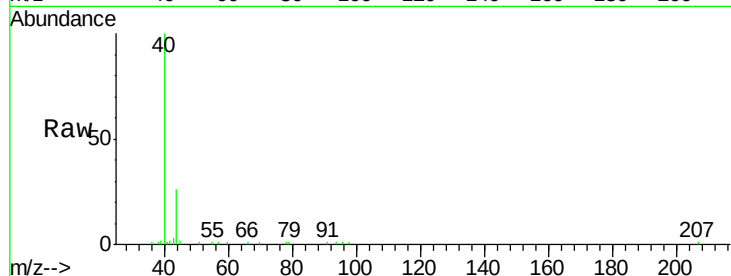
Tot Ion: 96 Resp: 112

Ion Ratio Lower Upper

96 100

61 0.0 117.4 176.2#

98 53.2 51.2 76.8



#22

Diisopropyl ether

Concen: 6.427 ug/l

RT: 2.76 min Scan# 216

Delta R.T. -0.04 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Tgt Ion: 45 Resp: 498

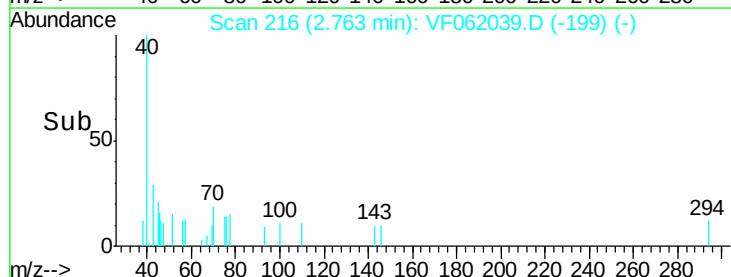
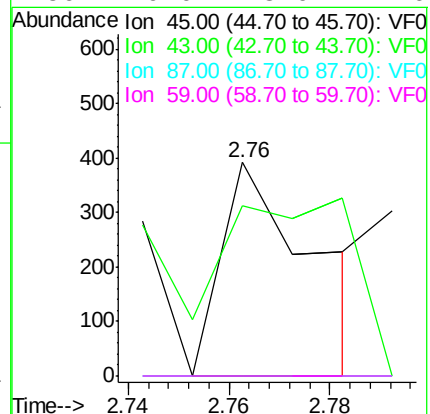
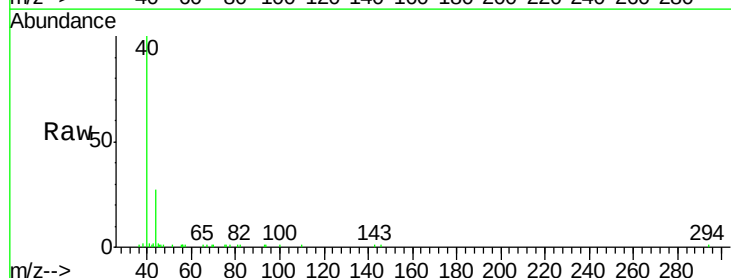
Ion Ratio Lower Upper

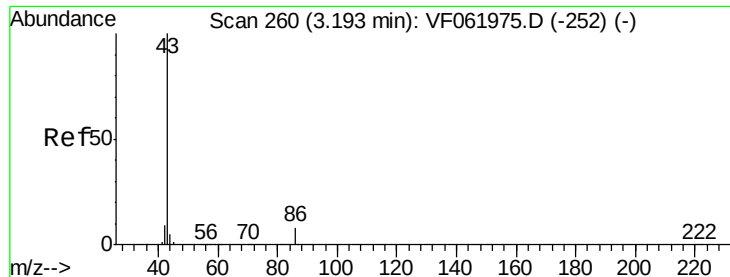
45 100

43 79.8 33.7 50.5#

87 0.0 17.1 25.7#

59 0.0 8.0 12.0#





#23

Vinyl Acetate

Concen: 12.572 ug/l

RT: 3.22 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

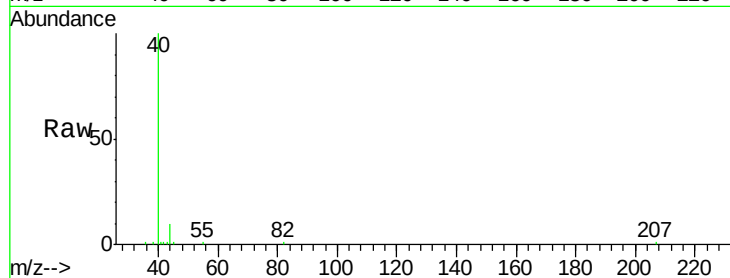
SB-9(7-8)-031519RE

Tot Ion: 43 Resp: 384

Ion Ratio Lower Upper

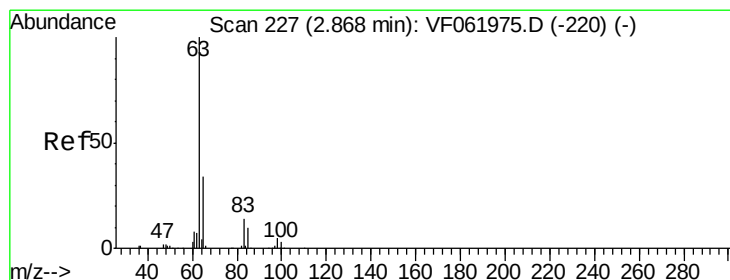
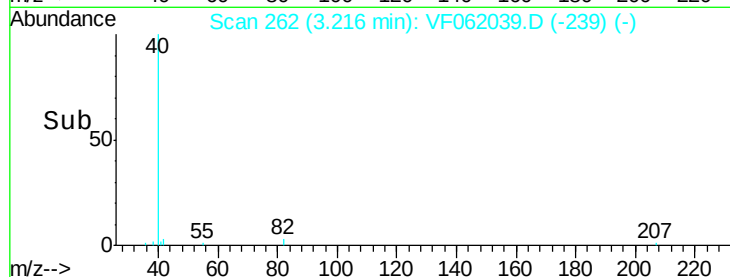
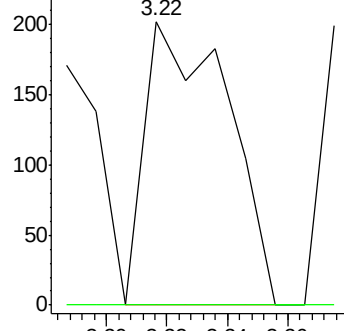
43 100

86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 1.554 ug/l

RT: 2.91 min Scan# 231

Delta R.T. 0.04 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

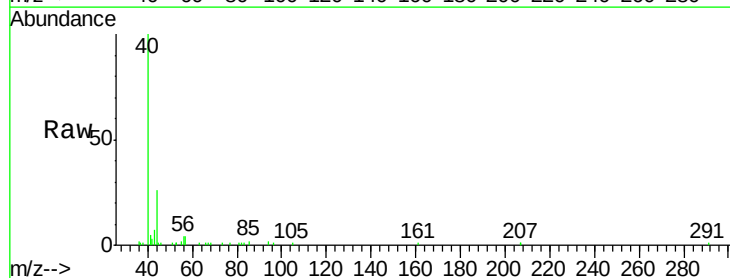
Tgt Ion: 63 Resp: 70

Ion Ratio Lower Upper

63 100

98 0.0 2.7 8.1#

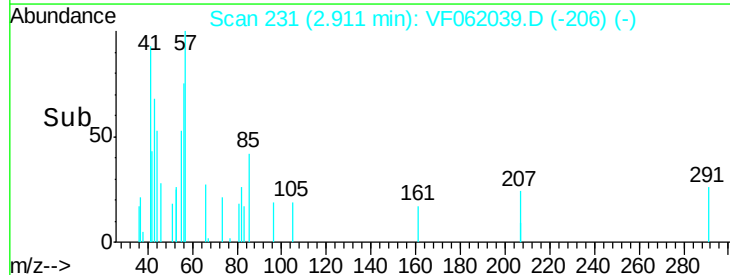
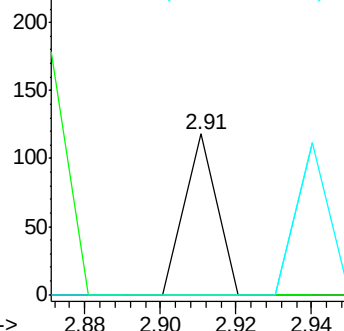
100 0.0 1.7 5.0#

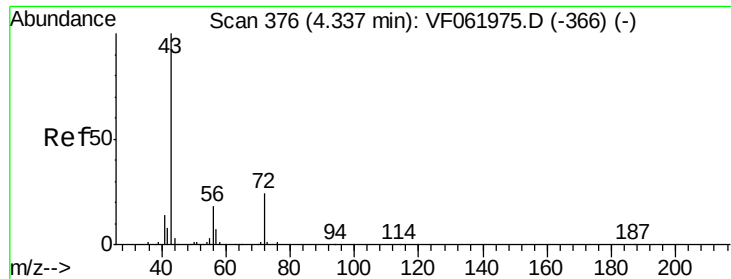


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 175.515 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.04 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

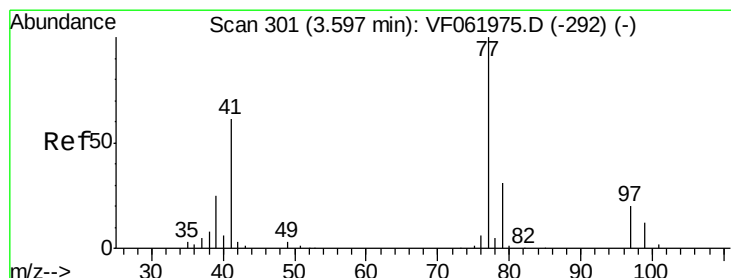
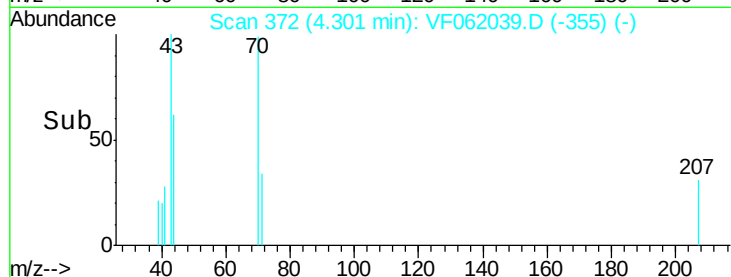
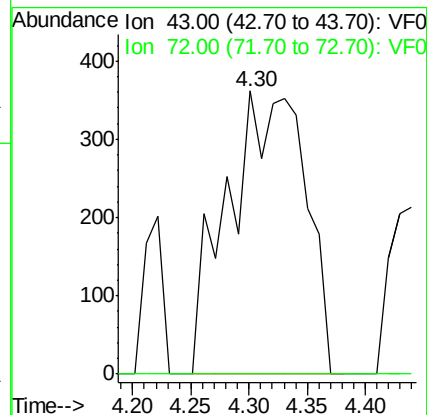
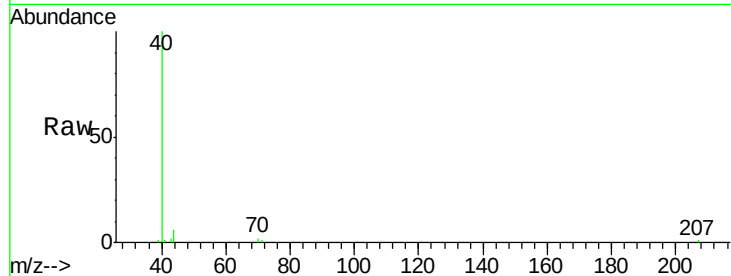
SB-9(7-8)-031519RE

Tot Ion: 43 Resp: 1680

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



#26

2,2-Dichloropropane

Concen: 6.635 ug/l

RT: 3.42 min Scan# 283

Delta R.T. -0.17 min

Lab File: VF062039.D

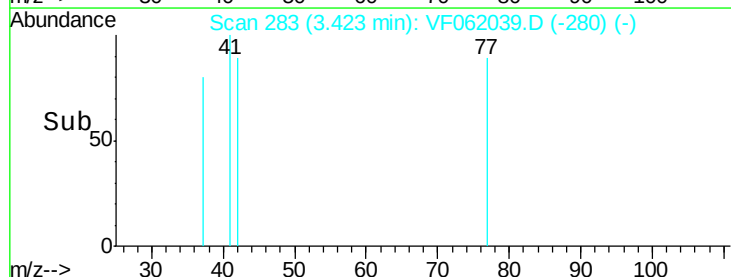
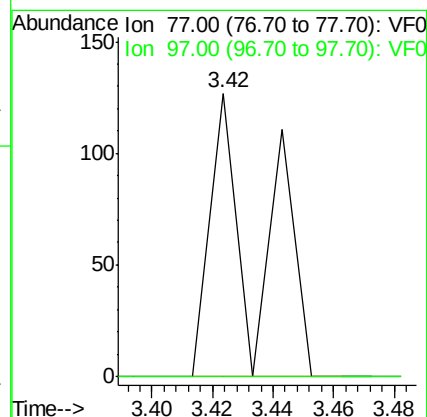
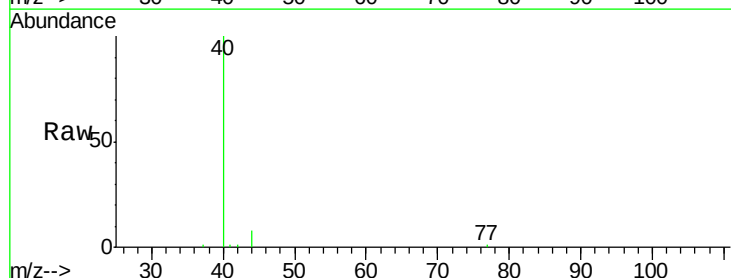
Acq: 20 Mar 2019 14:44

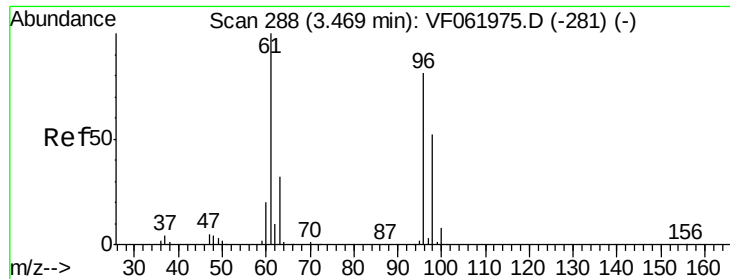
Tgt Ion: 77 Resp: 141

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



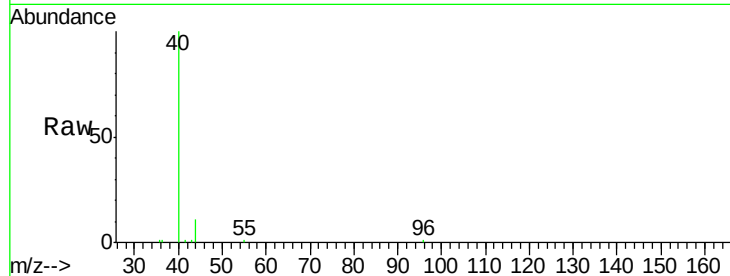


#27

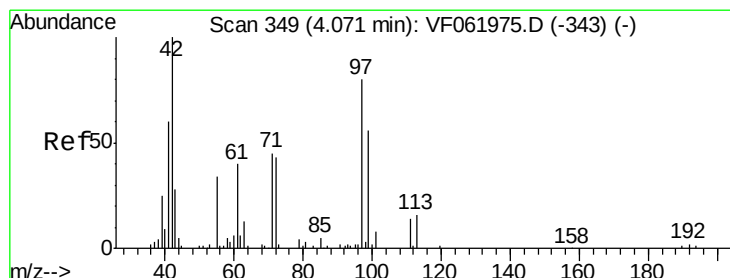
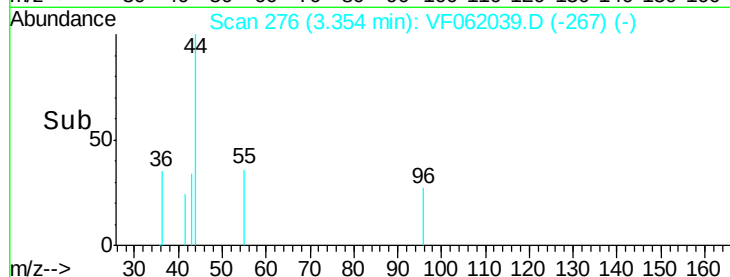
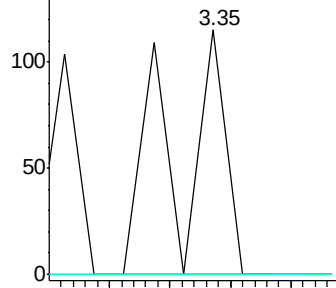
cis-1,2-Dichloroethene
Concen: 4.007 ug/l
RT: 3.35 min Scan# 276
Delta R.T. -0.11 min
Lab File: VF062039.D
Acq: 20 Mar 2019 14:44

Instrument :
MSVOA_F
ClientSampleId :
SB-9(7-8)-031519RE

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	246.6
98	0.0	0.0	129.2



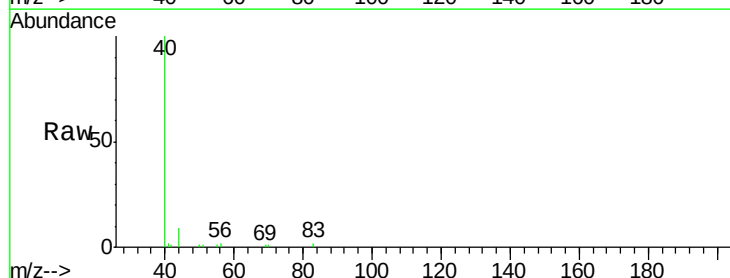
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



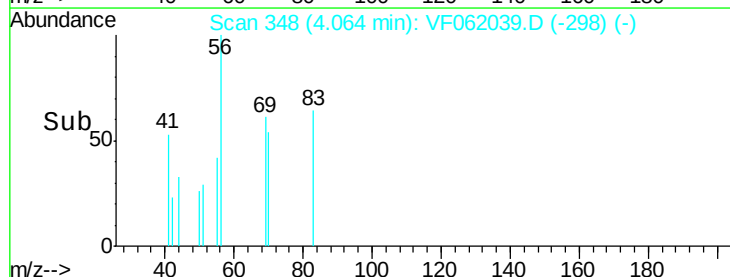
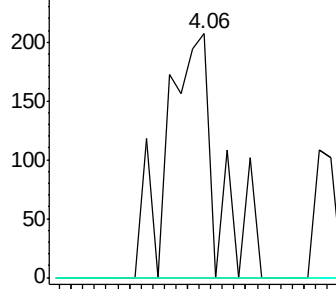
#29

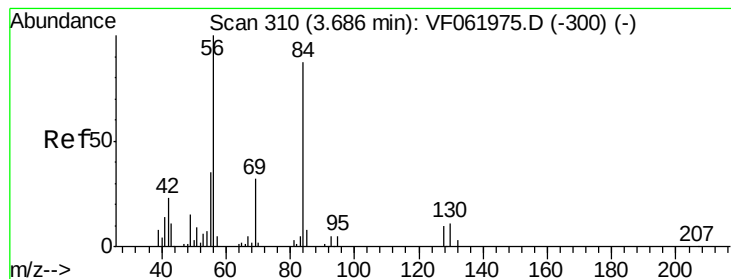
Tetrahydrofuran
Concen: 150.382 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.01 min
Lab File: VF062039.D
Acq: 20 Mar 2019 14:44

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.0	51.0#
71	0.0	34.2	51.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0





#31

Cvclohexane

Concen: 1.541 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.01 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

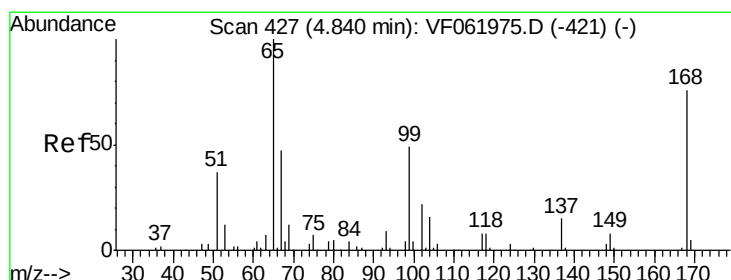
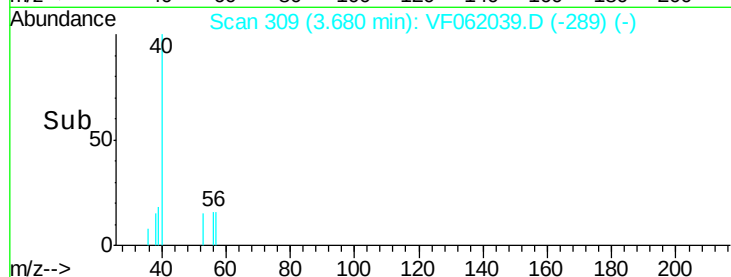
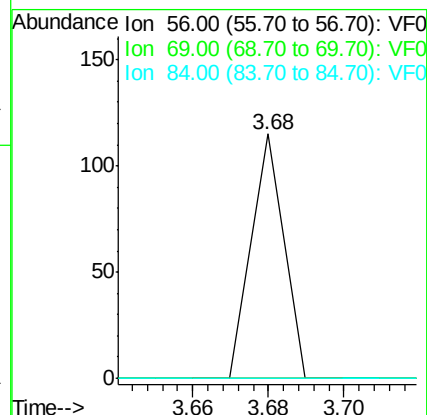
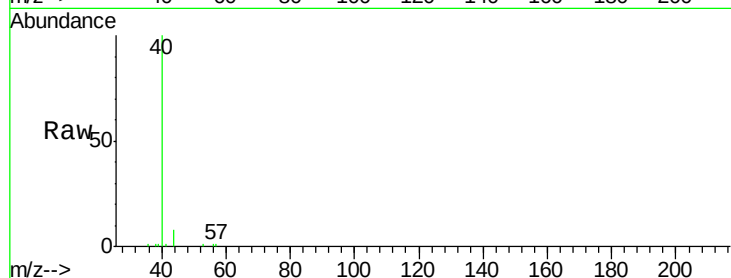
Tot Ion: 56 Resp: 68

Ion Ratio Lower Upper

56 100

69 0.0 25.8 38.8#

84 0.0 69.5 104.3#



#33

1,2-Dichloroethane-d4

Concen: 18.724 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF062039.D

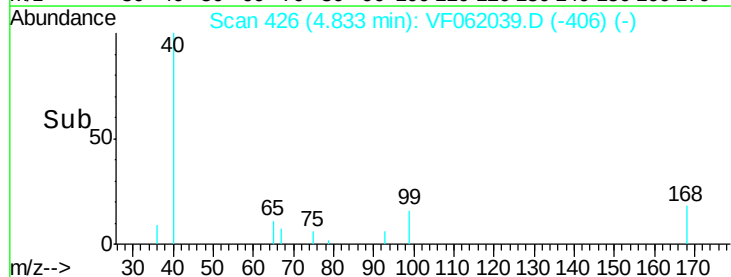
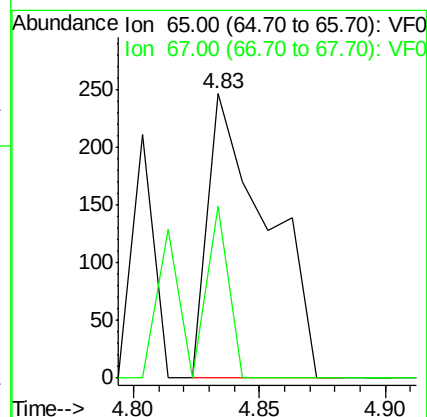
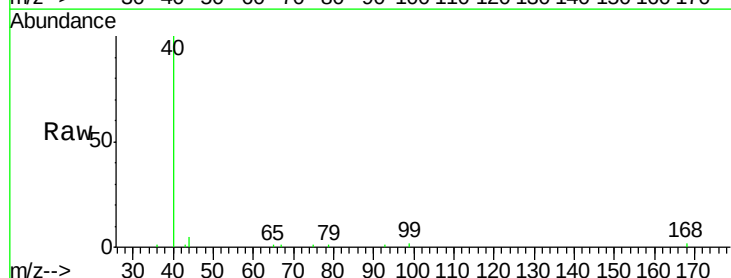
Acq: 20 Mar 2019 14:44

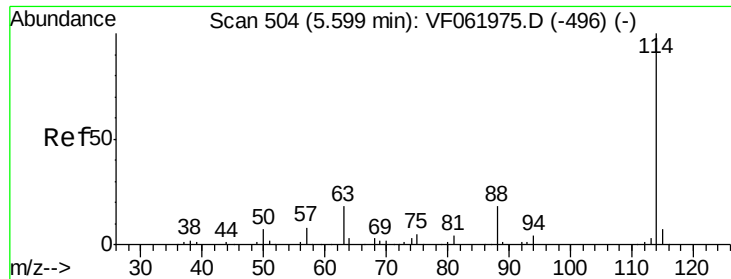
Tgt Ion: 65 Resp: 403

Ion Ratio Lower Upper

65 100

67 60.6 0.0 109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

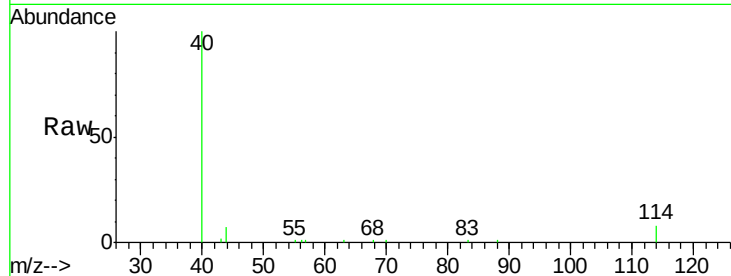
Tot Ion:114 Resp: 3327

Ion Ratio Lower Upper

114 100

63 10.6 0.0 36.4

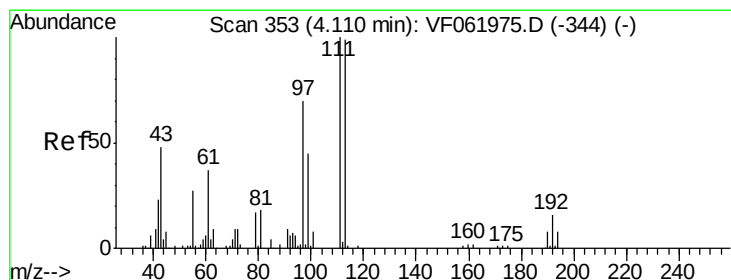
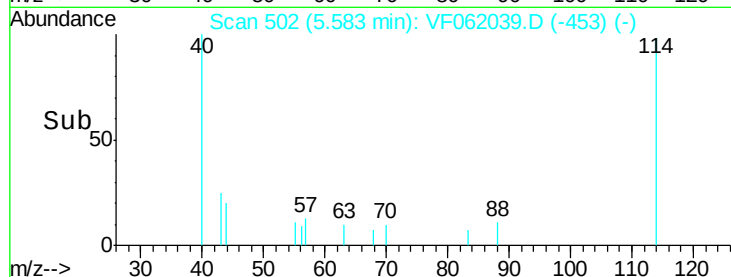
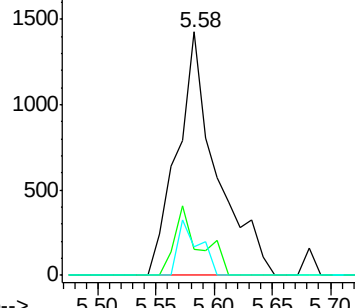
88 11.6 0.0 36.4



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



#35

Dibromofluoromethane

Concen: 37.553 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

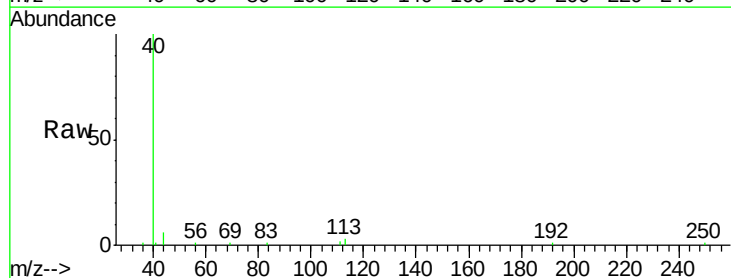
Tgt Ion:113 Resp: 839

Ion Ratio Lower Upper

113 100

111 67.8 80.8 121.2#

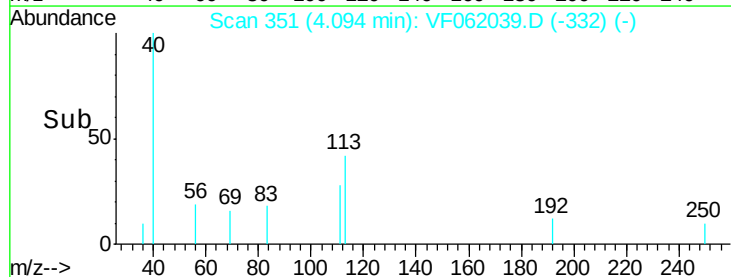
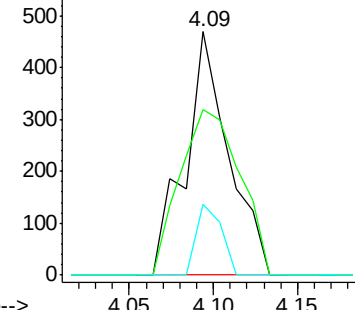
192 29.0 13.0 19.6#

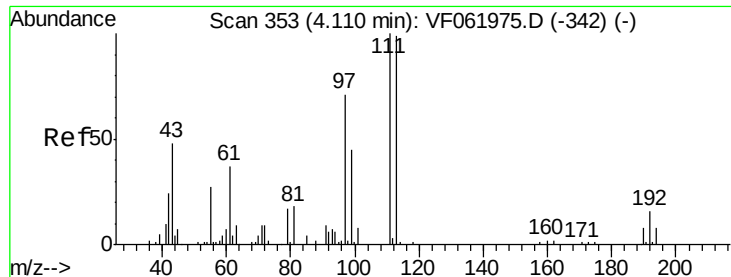


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

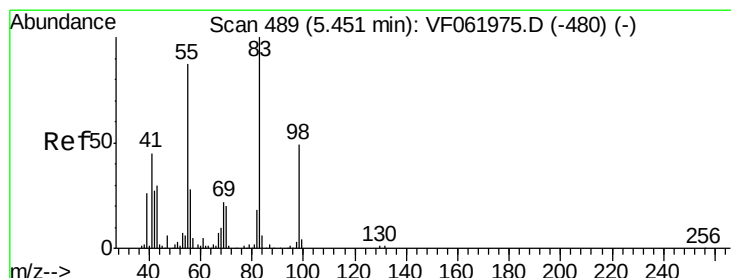
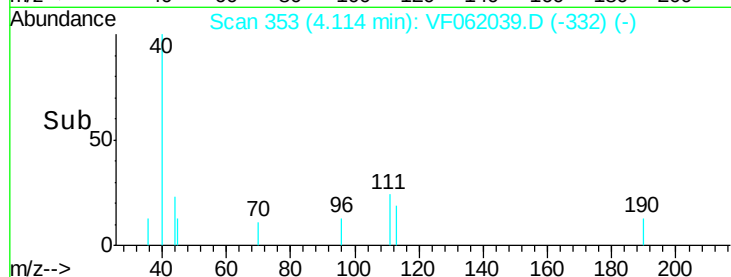
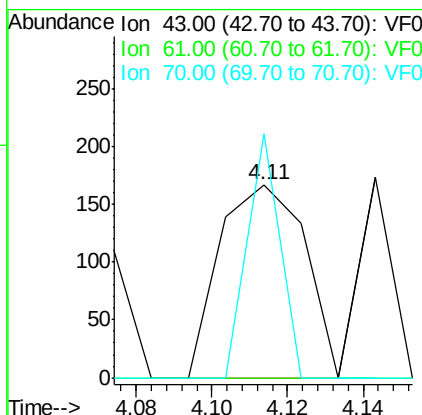
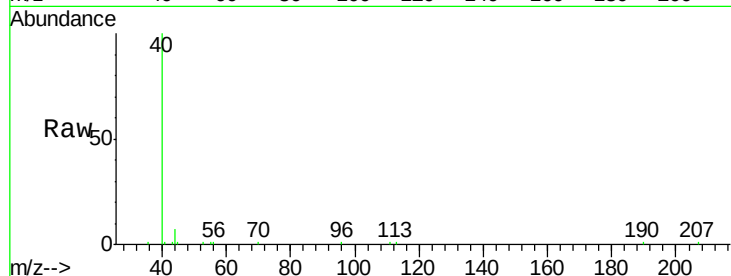




#37
Ethyl Acetate
Concen: 19.273 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF062039.D
Acq: 20 Mar 2019 14:44

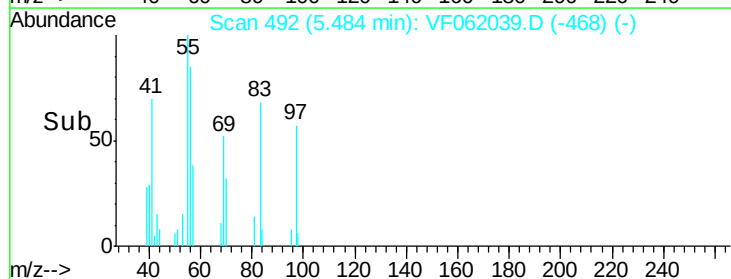
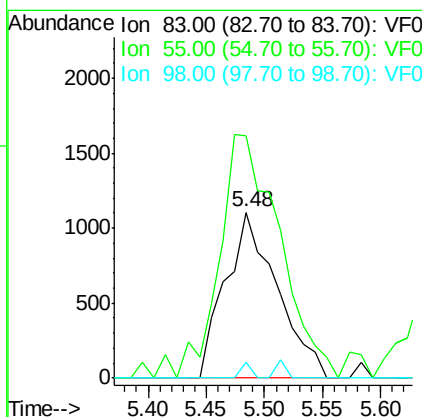
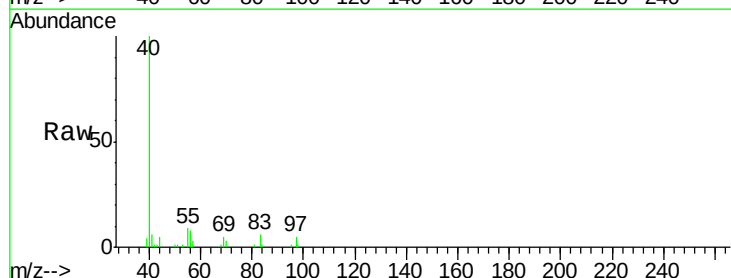
Instrument :
MSVOA_F
ClientSampleId :
SB-9(7-8)-031519RE

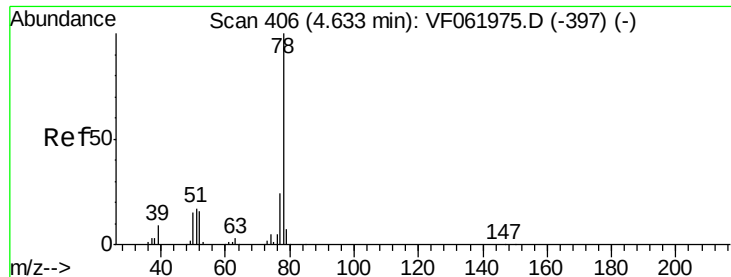
Tot Ion: 43 Resp: 260
Ion Ratio Lower Upper
43 100
61 0.0 59.8 89.6#
70 126.3 7.8 11.8#



#39
Methylcyclohexane
Concen: 96.310 ug/l
RT: 5.48 min Scan# 492
Delta R.T. 0.03 min
Lab File: VF062039.D
Acq: 20 Mar 2019 14:44

Tgt Ion: 83 Resp: 3397
Ion Ratio Lower Upper
83 100
55 146.4 69.7 104.5#
98 9.3 39.4 59.0#





#40

Benzene

Concen: 3.655 ug/l

RT: 4.62 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

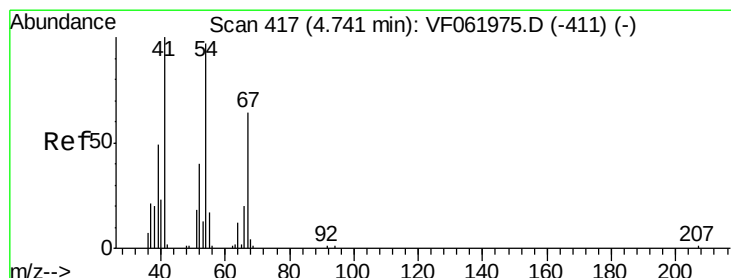
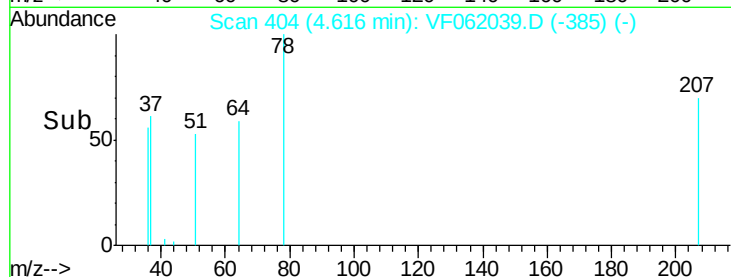
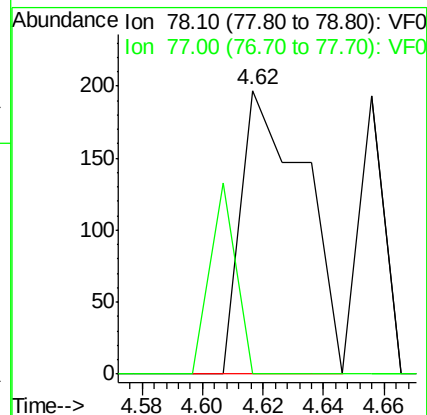
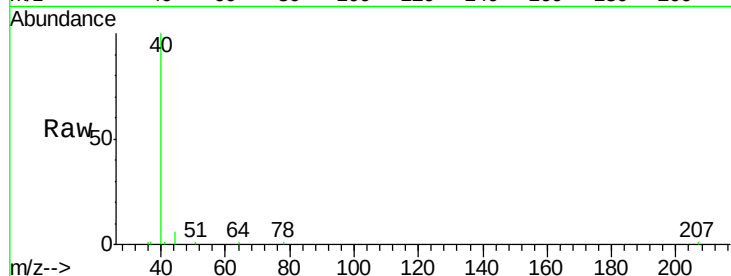
SB-9(7-8)-031519RE

Tot Ion: 78 Resp: 291

Ion Ratio Lower Upper

78 100

77 0.0 19.0 28.4#



#41

Methacrylonitrile

Concen: 36.628 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.01 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Tgt Ion: 41 Resp: 264

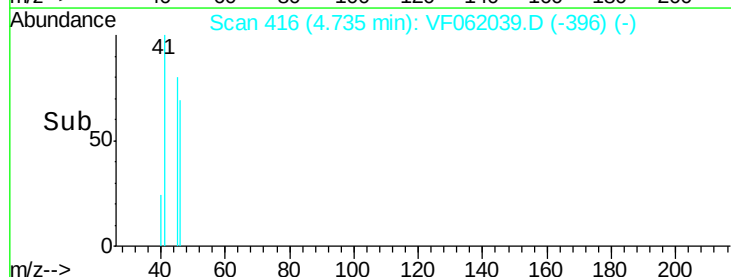
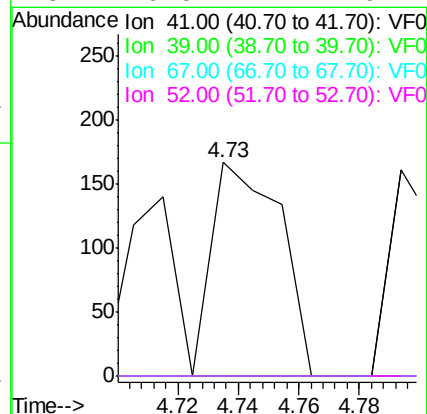
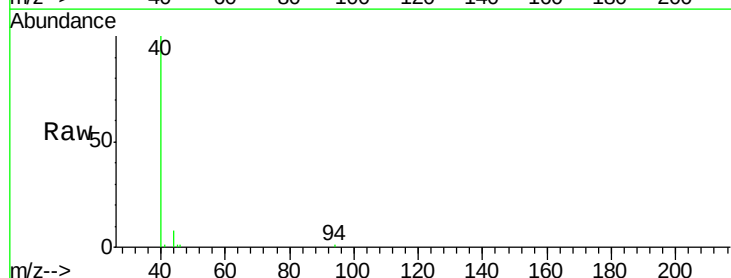
Ion Ratio Lower Upper

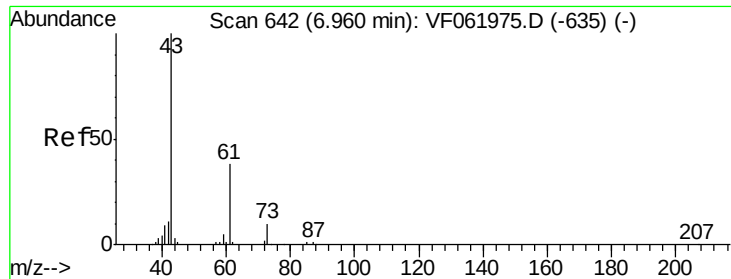
41 100

39 0.0 46.2 69.4#

67 0.0 49.8 74.8#

52 0.0 42.7 64.1#





#43

Isopropyl Acetate

Concen: 33.394 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.03 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

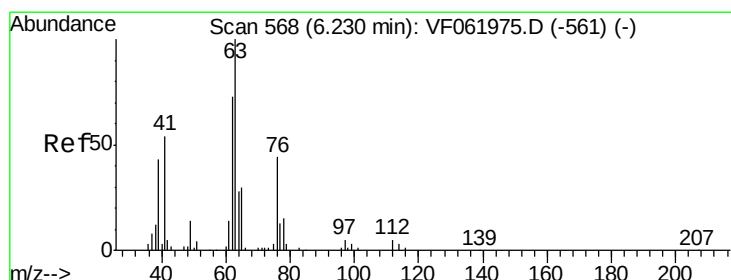
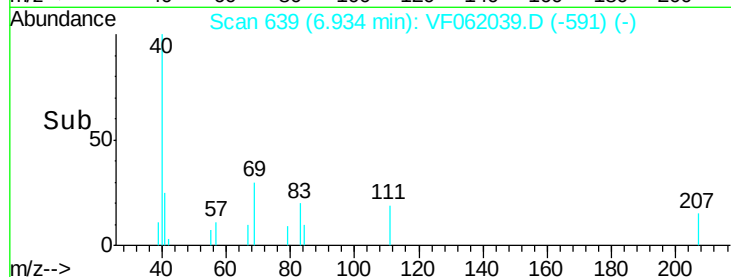
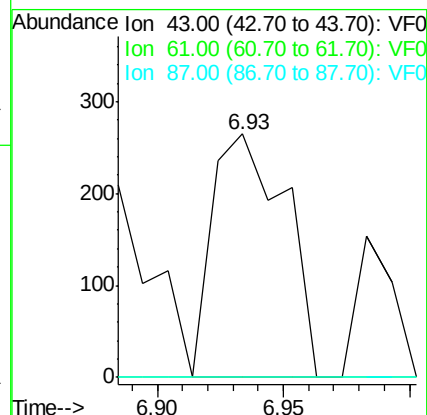
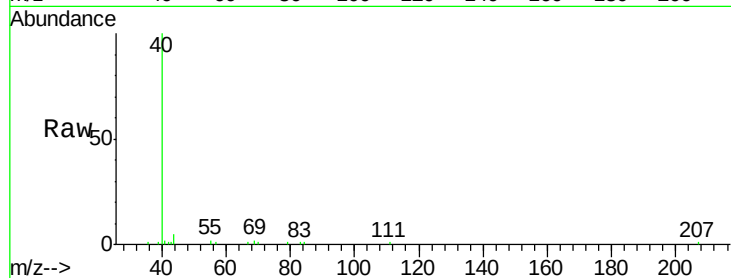
Tot Ion: 43 Resp: 533

Ion Ratio Lower Upper

43 100

61 0.0 30.1 45.1#

87 0.0 0.4 0.6#



#45

1,2-Dichloropropane

Concen: 3.291 ug/l

RT: 6.28 min Scan# 573

Delta R.T. 0.05 min

Lab File: VF062039.D

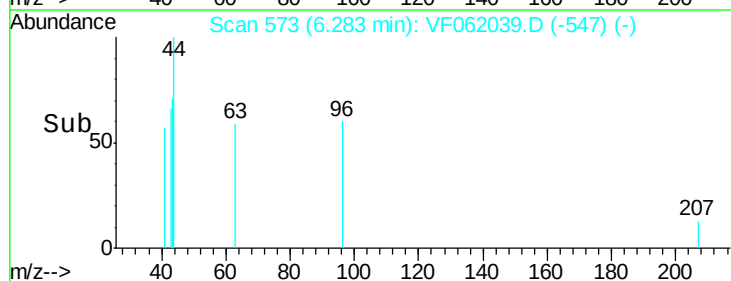
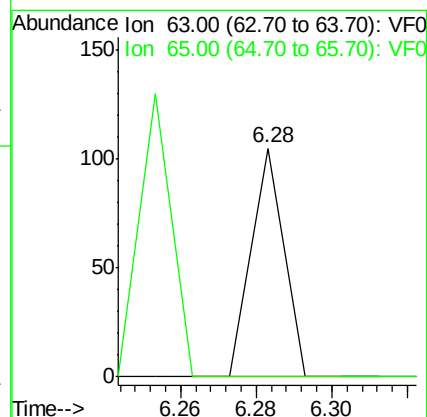
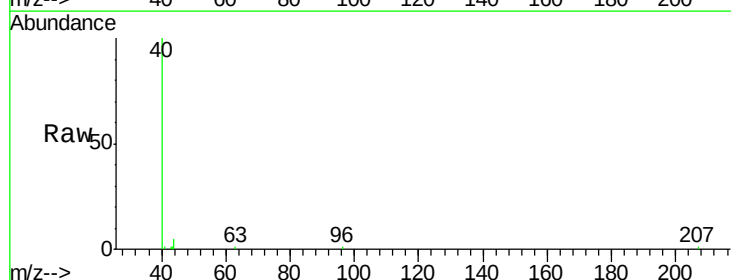
Acq: 20 Mar 2019 14:44

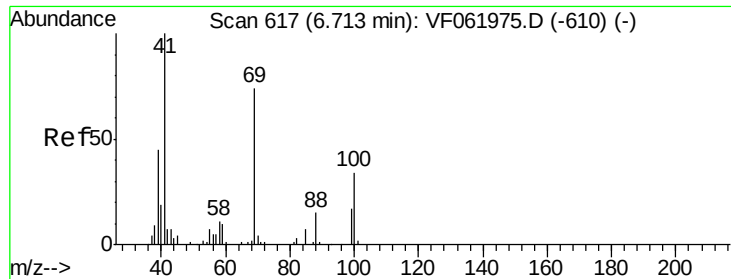
Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

63 100

65 0.0 23.7 35.5#





#48

Methyl methacrylate

Concen: 205.611 ug/l

RT: 6.66 min Scan# 611

Delta R.T. -0.06 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

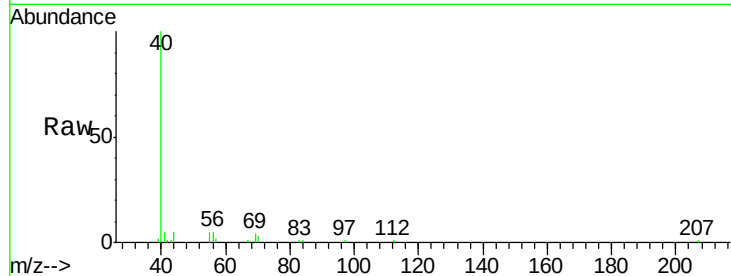
Tot Ion: 41 Resp: 2121

Ion Ratio Lower Upper

41 100

69 83.1 59.0 88.6

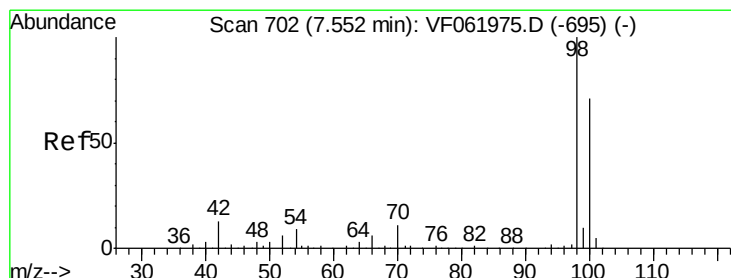
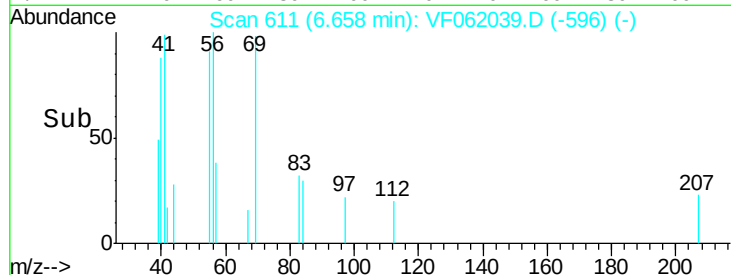
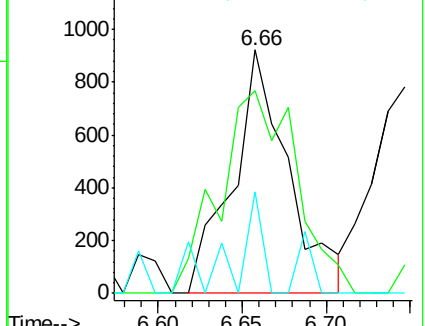
39 41.6 35.6 53.4



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#50

Toluene-d8

Concen: 51.538 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF062039.D

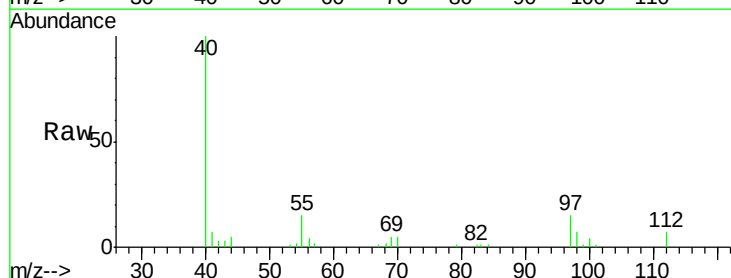
Acq: 20 Mar 2019 14:44

Tgt Ion: 98 Resp: 3366

Ion Ratio Lower Upper

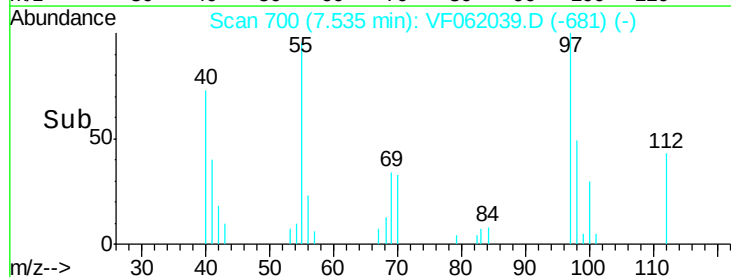
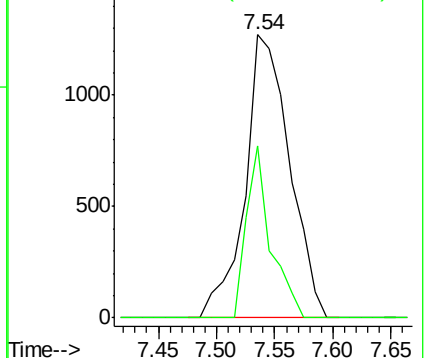
98 100

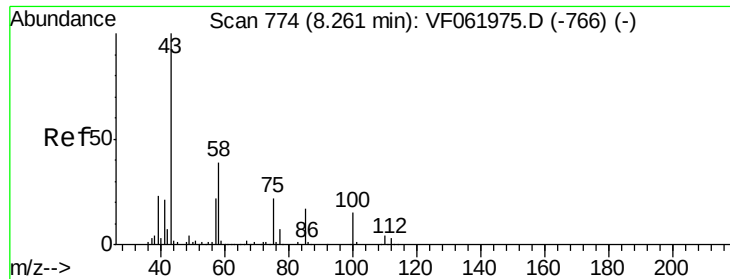
100 60.7 56.8 85.2



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: 112.845 ug/l

RT: 8.21 min Scan# 768

Delta R.T. -0.06 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

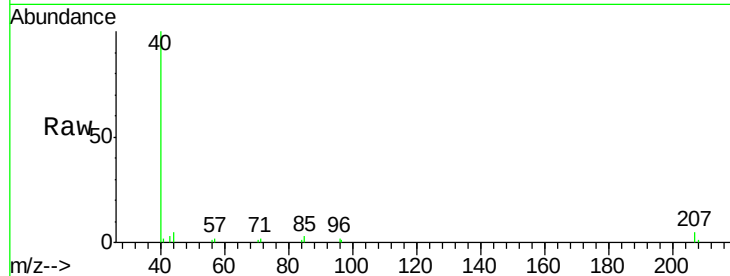
SB-9(7-8)-031519RE

Tot Ion: 43 Resp: 1279

Ion Ratio Lower Upper

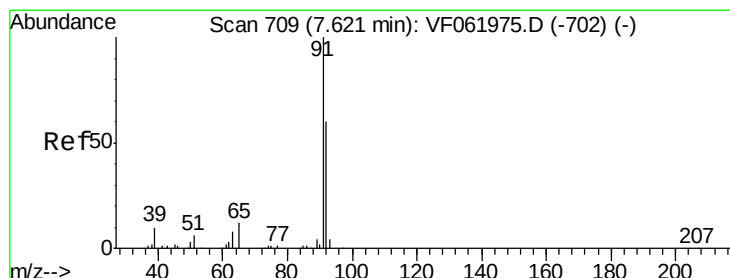
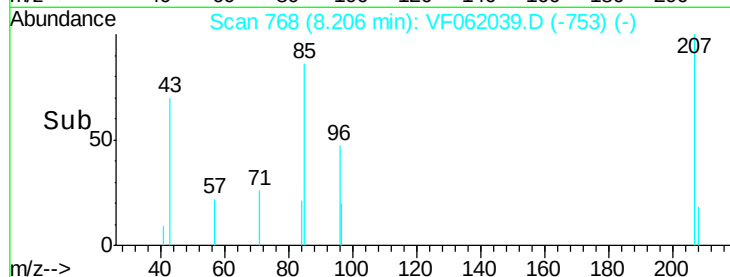
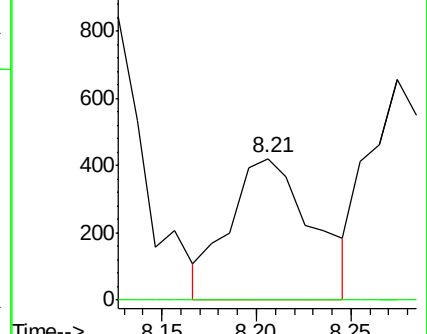
43 100

58 0.0 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 7.319 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF062039.D

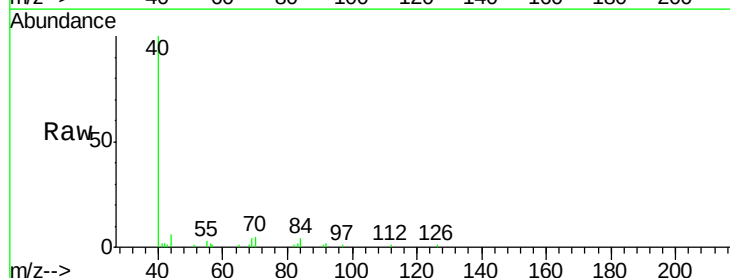
Acq: 20 Mar 2019 14:44

Tgt Ion: 92 Resp: 356

Ion Ratio Lower Upper

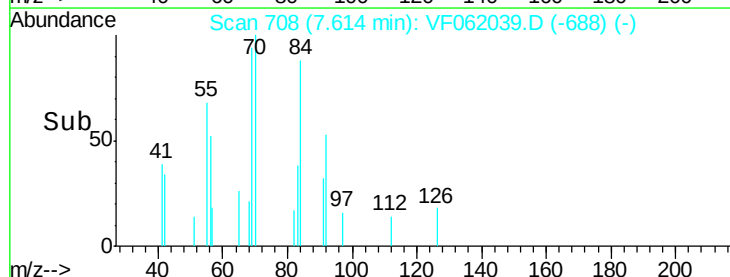
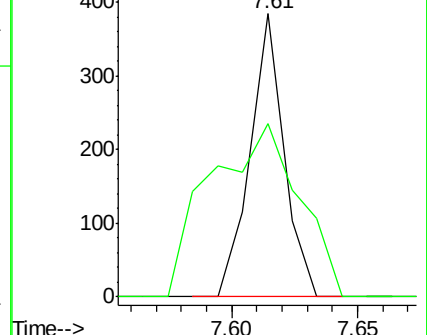
92 100

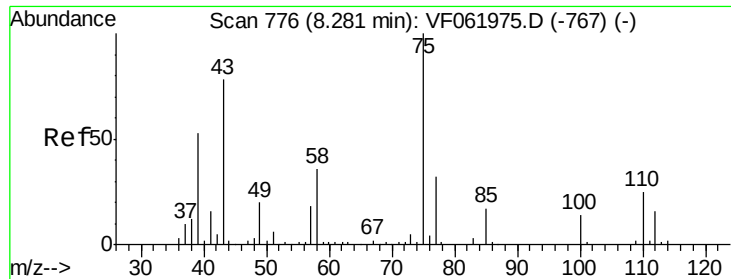
91 61.2 134.0 201.0#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 3.407 ug/l

RT: 8.14 min Scan# 761

Delta R.T. -0.14 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

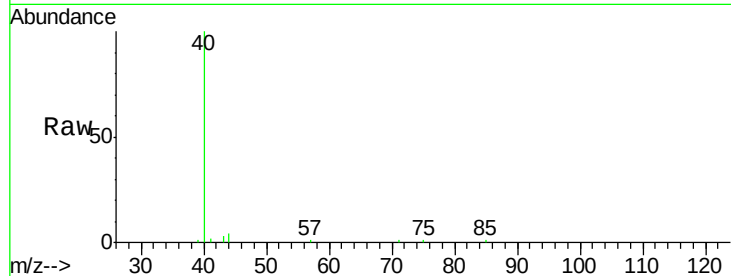
SB-9(7-8)-031519RE

Tot Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

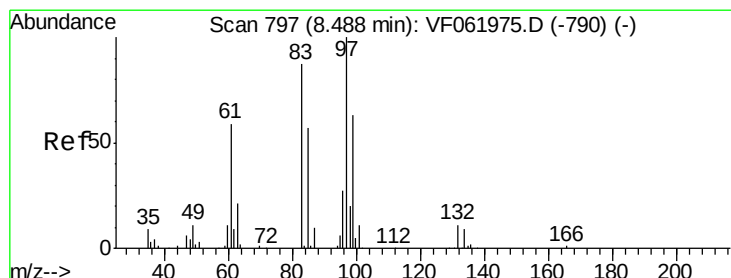
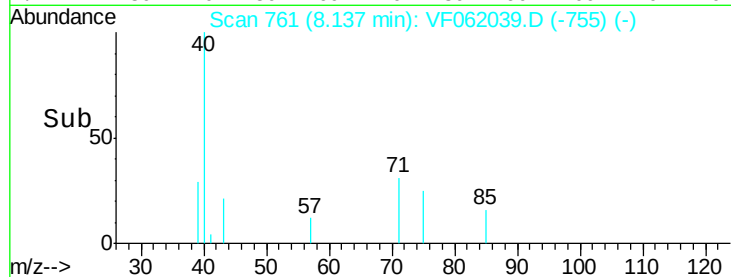
8.14

100

50

0

Time--> 8.10 8.12 8.14 8.16



#55

1,1,2-Trichloroethane

Concen: 4.935 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Tgt Ion: 97 Resp: 67

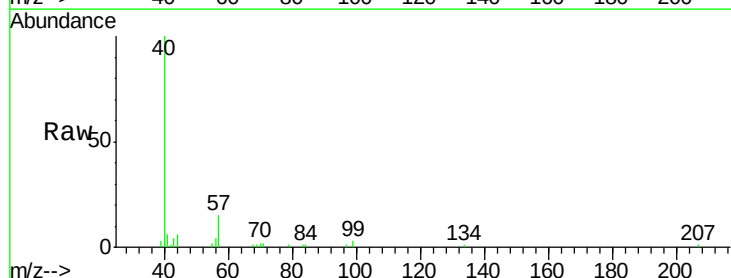
Ion Ratio Lower Upper

97 100

83 100.9 69.7 104.5

85 0.0 45.8 68.6#

99 402.6 50.3 75.5#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

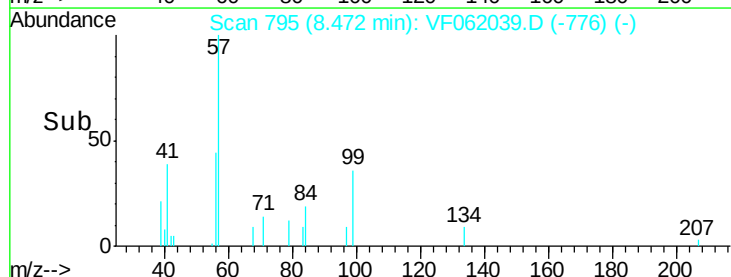
1500

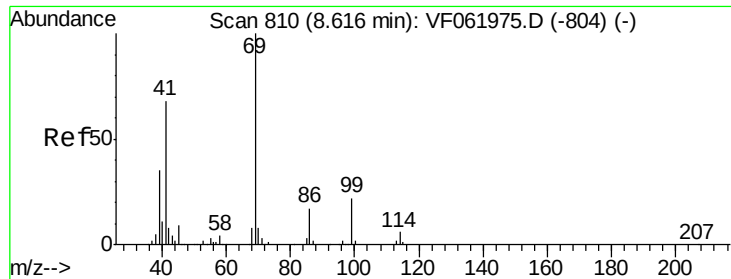
1000

500

0

Time--> 8.44 8.46 8.48 8.50





#56

Ethyl methacrylate

Concen: 245.130 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.01 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

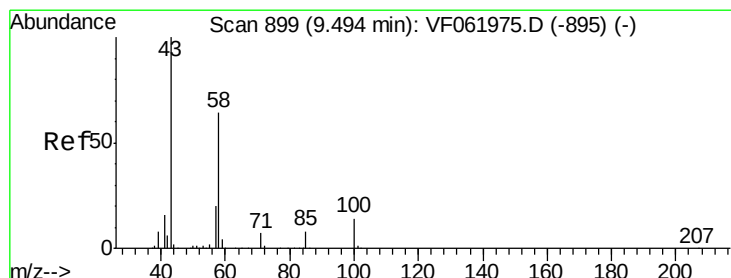
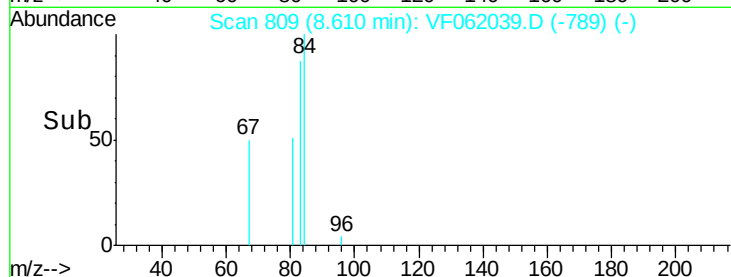
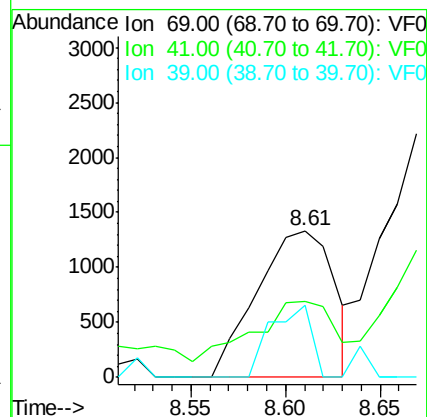
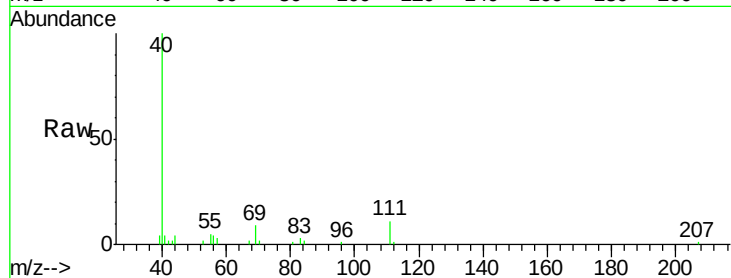
Tot Ion: 69 Resp: 3783

Ion Ratio Lower Upper

69 100

41 52.1 54.7 82.1#

39 49.3 27.9 41.9#



#59

2-Hexanone

Concen: 151.171 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.01 min

Lab File: VF062039.D

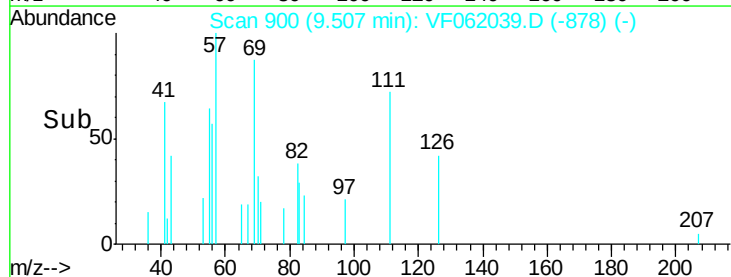
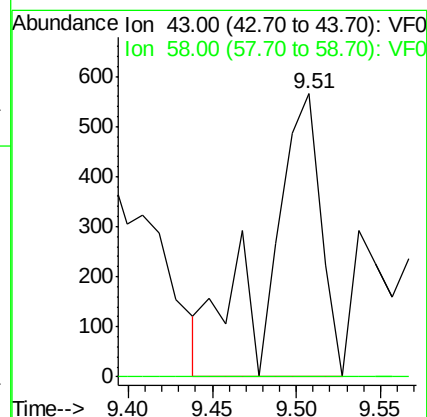
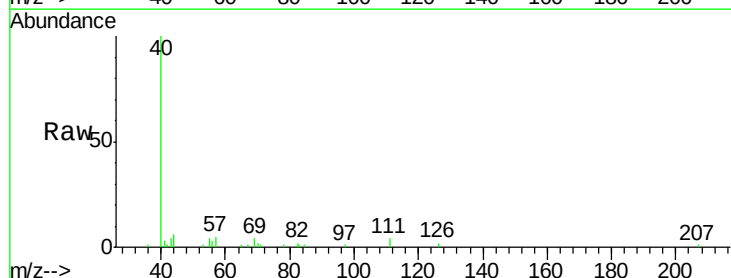
Acq: 20 Mar 2019 14:44

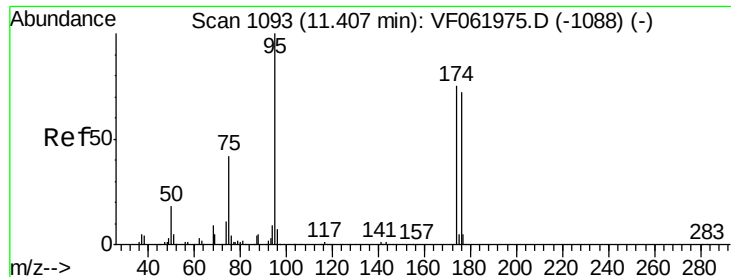
Tgt Ion: 43 Resp: 1240

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.2#





#62

4-Bromofluorobenzene

Concen: 19.926 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.04 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

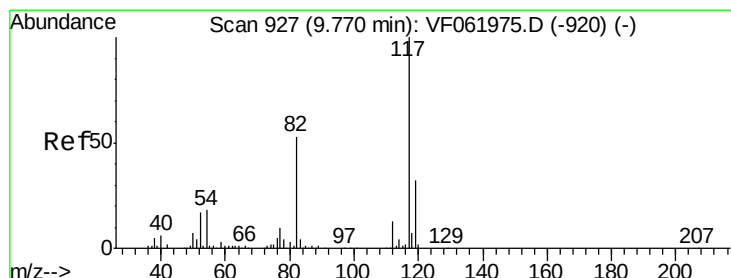
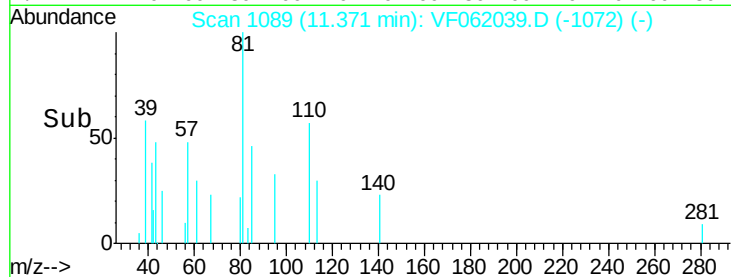
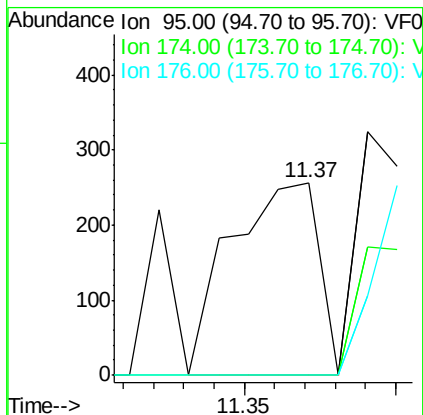
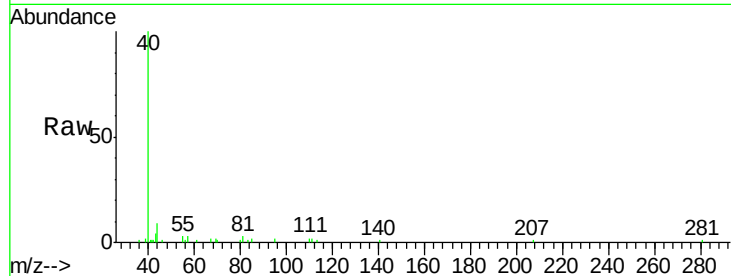
Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

Tot Ion:	95	Resp:	517
Ion	Ratio	Lower	Upper
95	100		
174	0.0	0.0	149.4
176	0.0	0.0	143.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

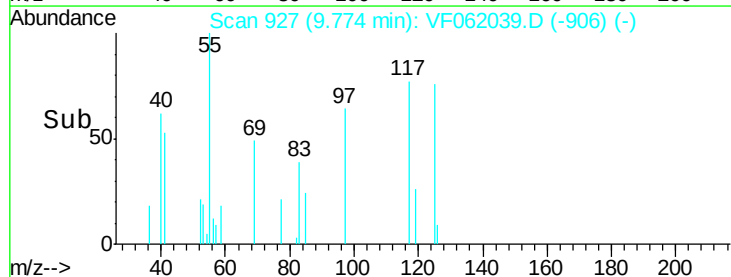
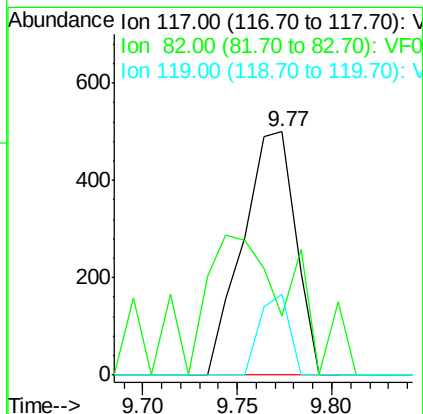
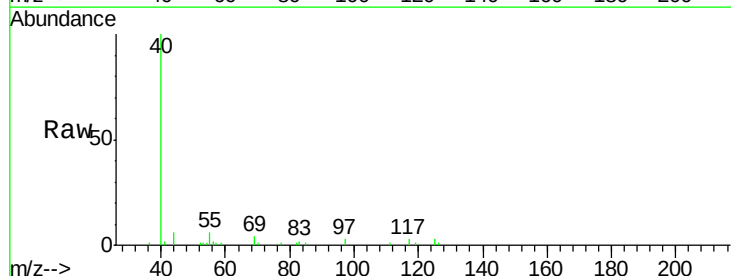
RT: 9.77 min Scan# 927

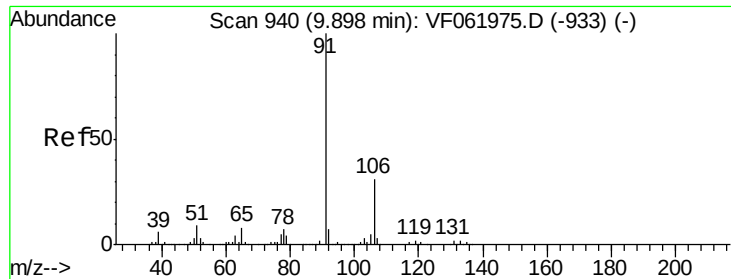
Delta R.T. 0.00 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Tgt Ion:	117	Resp:	969
Ion	Ratio	Lower	Upper
117	100		
82	24.6	42.5	63.7#
119	33.2	25.4	38.0





#67

Ethyl Benzene

Concen: 2.039 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

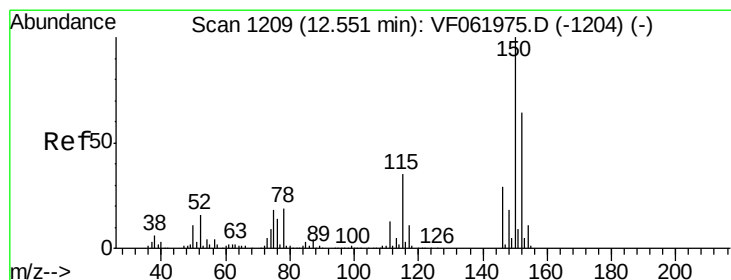
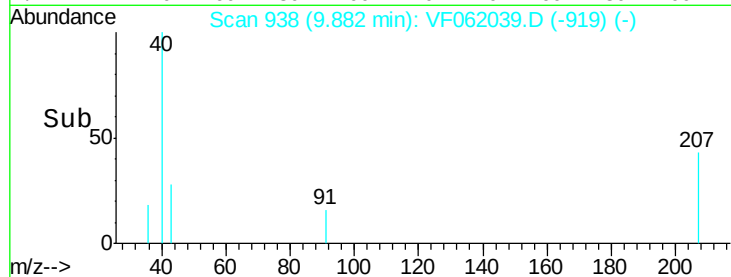
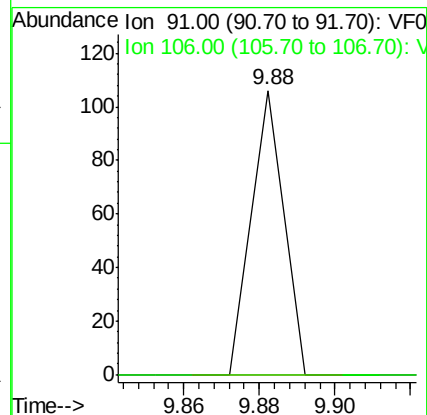
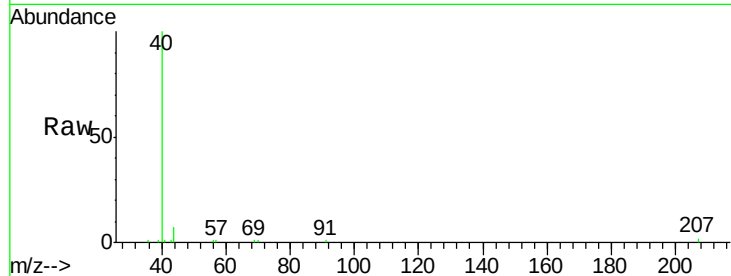
SB-9(7-8)-031519RE

Tot Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

106 0.0 24.4 36.6#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.65 min Scan# 1219

Delta R.T. 0.10 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

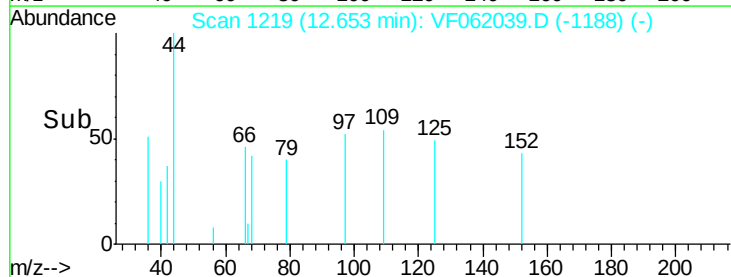
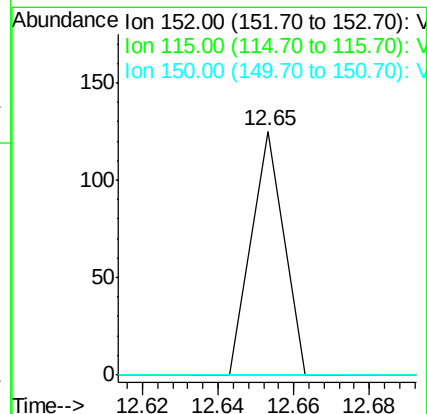
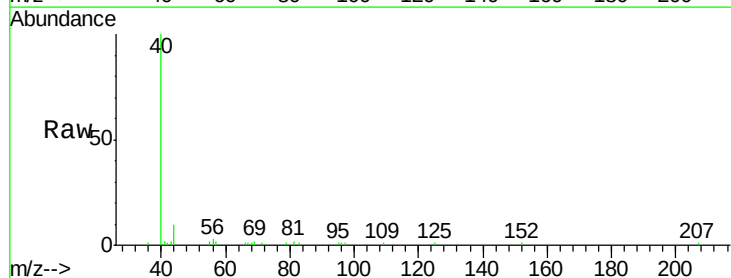
Tgt Ion: 152 Resp: 74

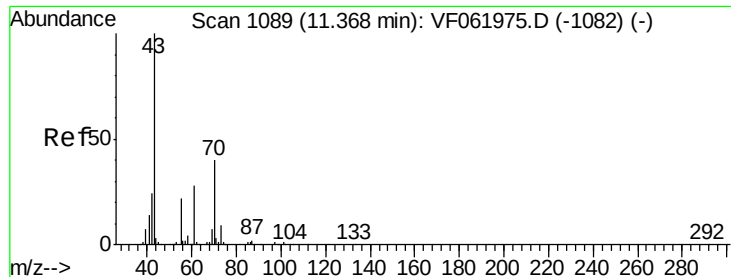
Ion Ratio Lower Upper

152 100

115 0.0 27.3 81.9#

150 0.0 0.0 316.2





#74

N-amvl acetate

Concen: 2158.051 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

Tot Ion: 43 Resp: 2528

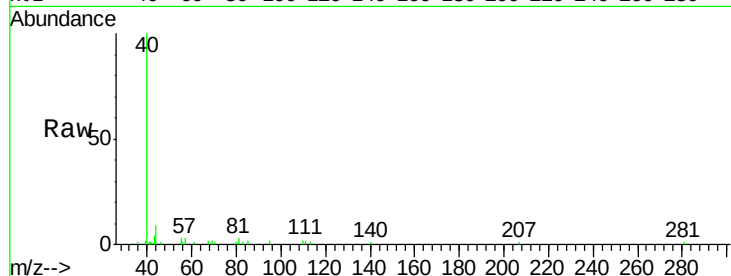
Ion Ratio Lower Upper

43 100

70 25.3 31.9 47.9#

55 81.2 17.9 26.9#

61 25.1 22.2 33.2

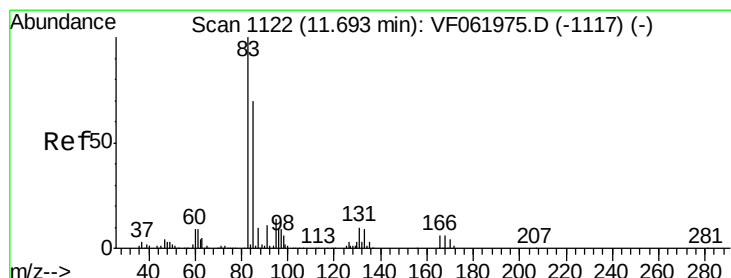
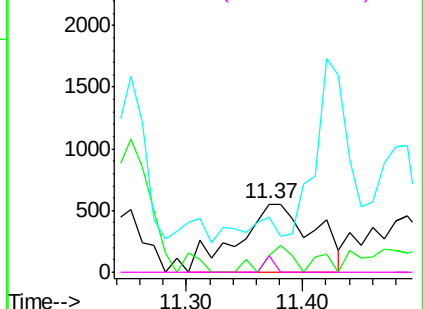
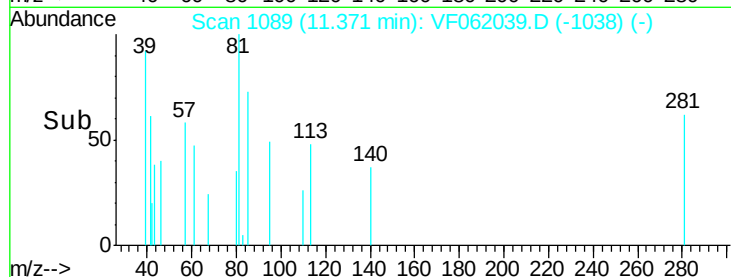


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 1900.803 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

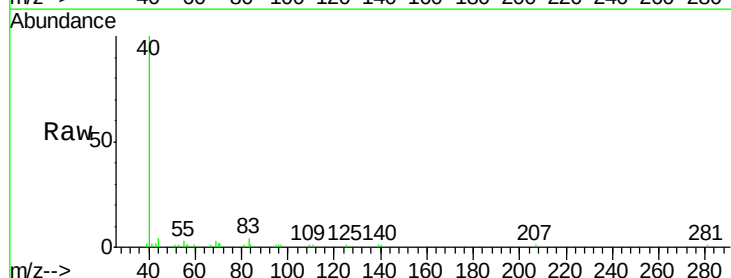
Tgt Ion: 83 Resp: 1604

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

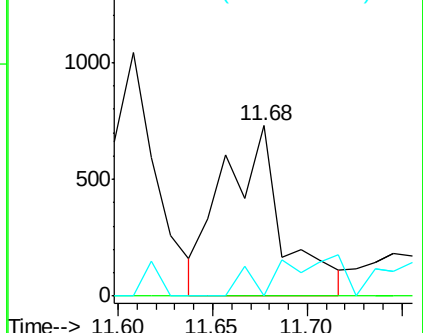
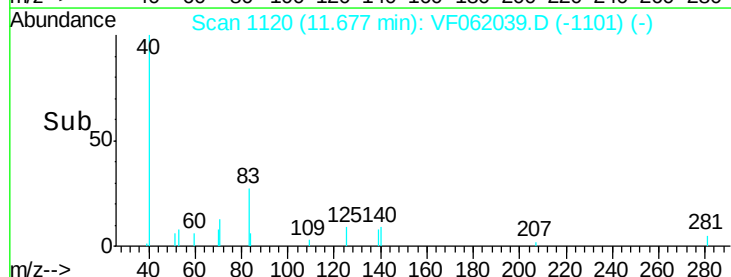
85 0.0 35.3 105.9#

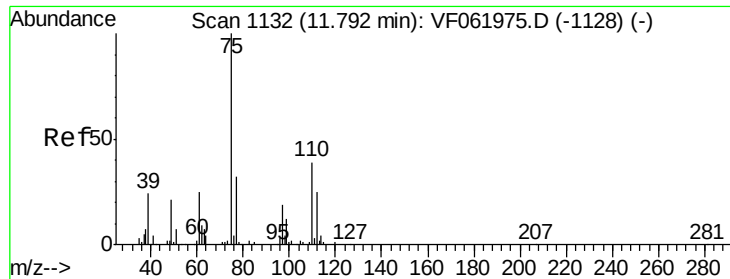


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 105.072 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.03 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

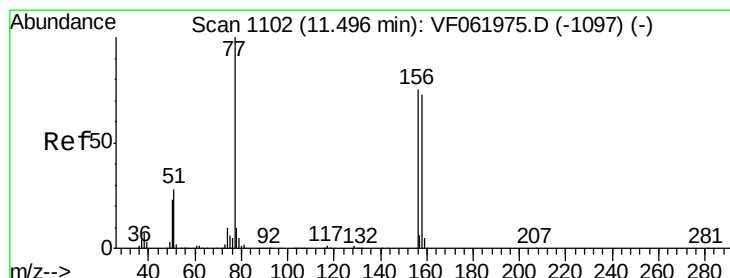
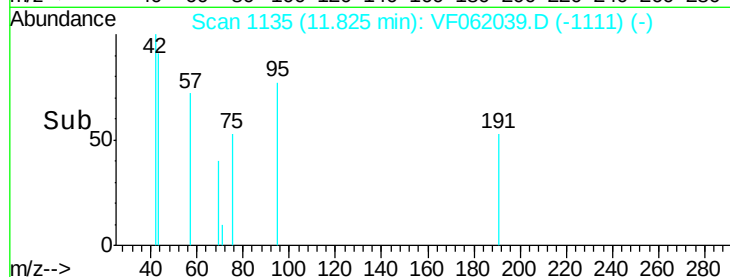
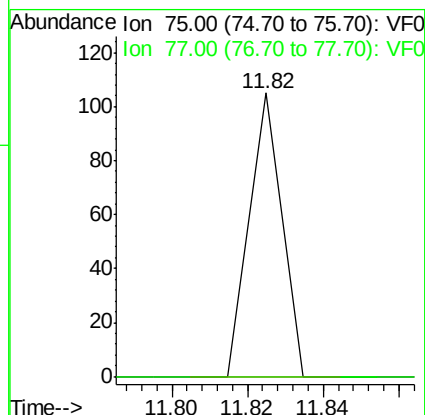
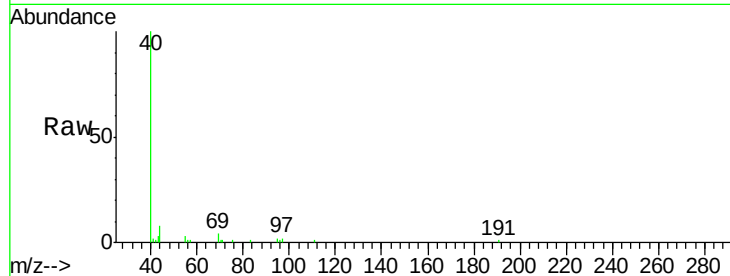
SB-9(7-8)-031519RE

Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 16.4 49.2#



#77

Bromobenzene

Concen: 51.523 ug/l

RT: 11.56 min Scan# 1108

Delta R.T. 0.06 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

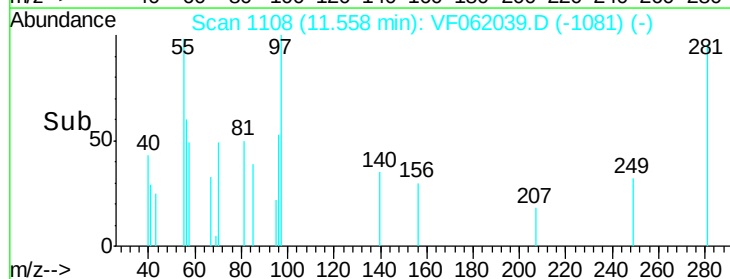
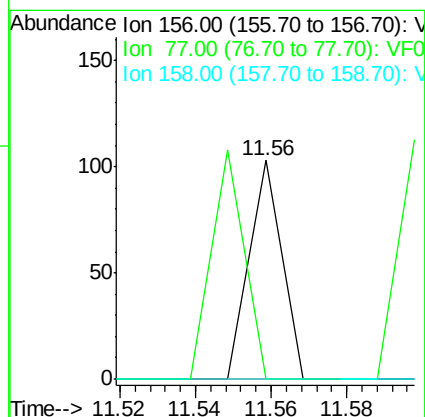
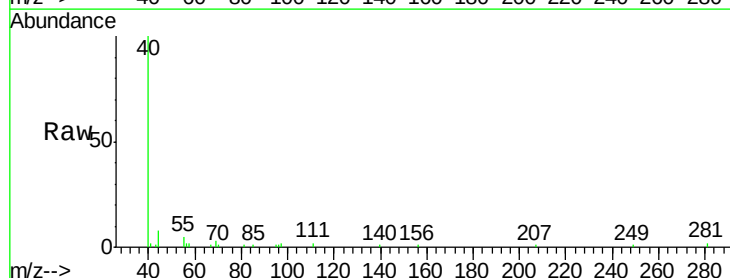
Tgt Ion: 156 Resp: 61

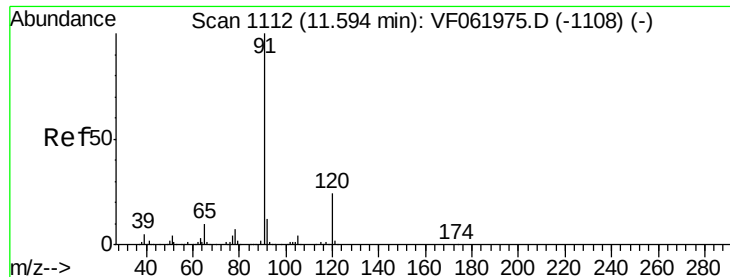
Ion Ratio Lower Upper

156 100

77 0.0 67.0 201.0#

158 0.0 48.9 146.7#





#78

n-propylbenzene

Concen: 10.377 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

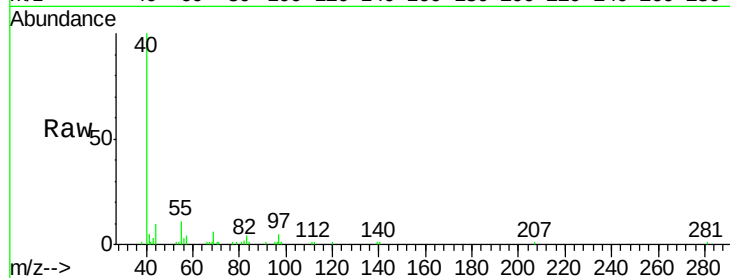
SB-9(7-8)-031519RE

Tot Ion: 91 Resp: 61

Ion Ratio Lower Upper

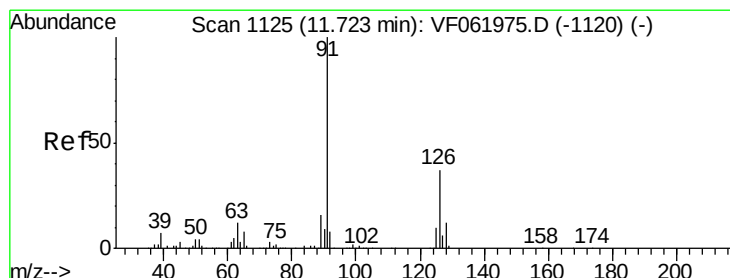
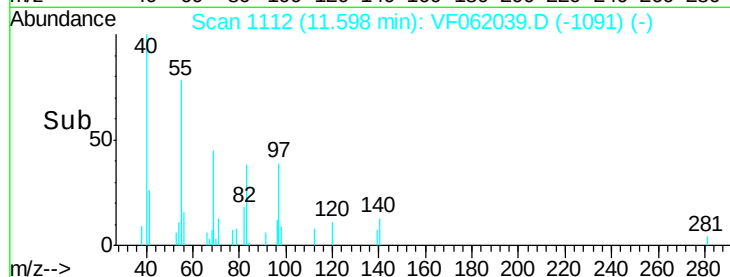
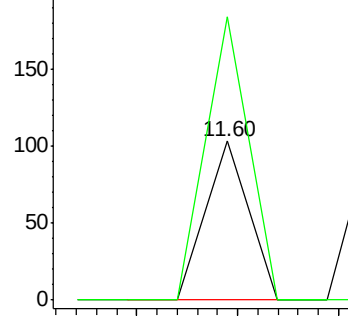
91 100

120 178.6 11.8 35.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 43.097 ug/l

RT: 11.74 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VF062039.D

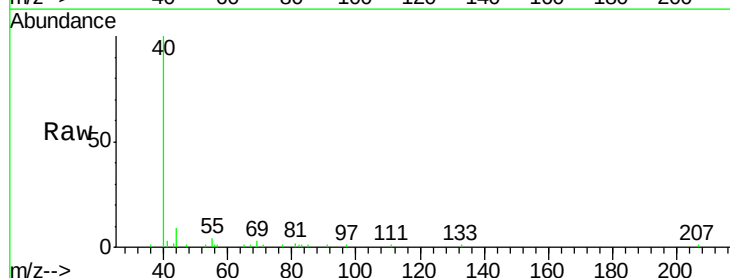
Acq: 20 Mar 2019 14:44

Tgt Ion: 91 Resp: 143

Ion Ratio Lower Upper

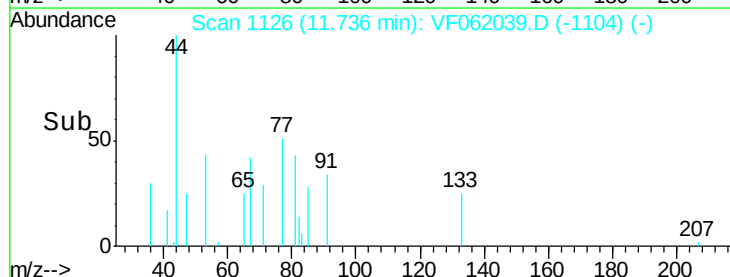
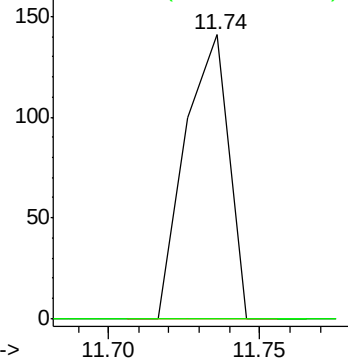
91 100

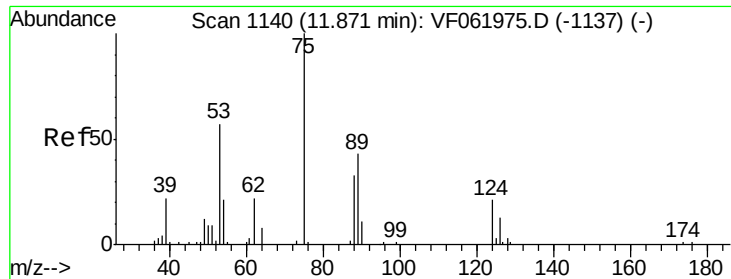
126 0.0 18.4 55.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 229.848 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

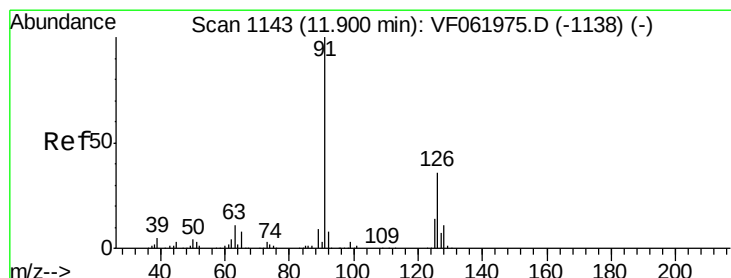
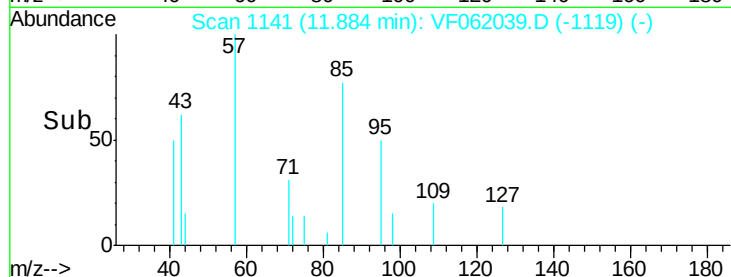
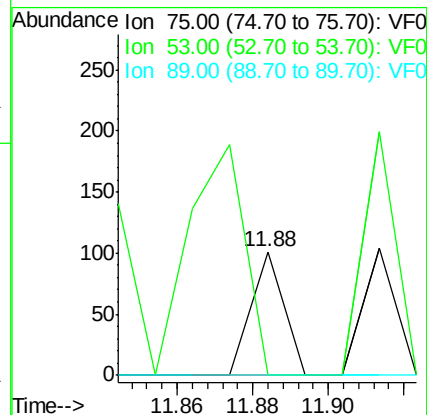
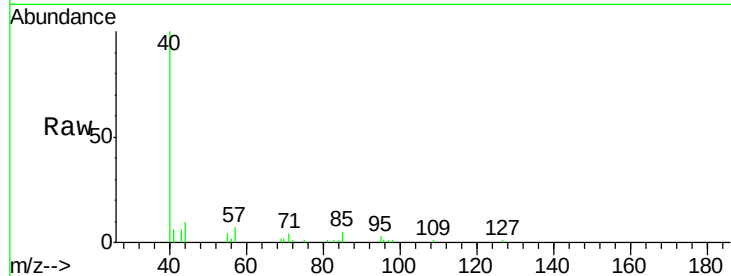
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

53 0.0 49.0 73.6#

89 0.0 37.1 55.7#



#82

4-Chlorotoluene

Concen: 45.001 ug/l

RT: 11.93 min Scan# 1146

Delta R.T. 0.03 min

Lab File: VF062039.D

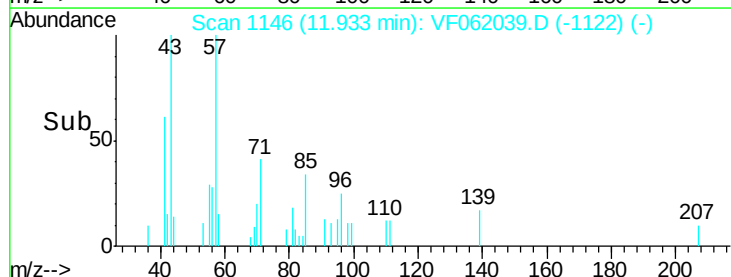
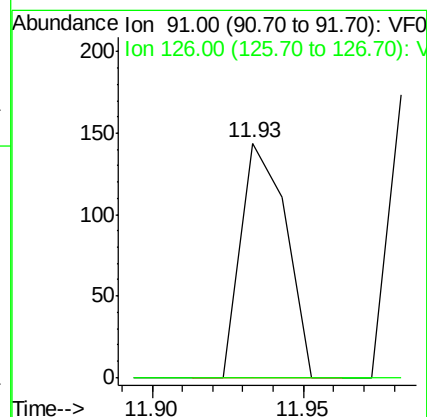
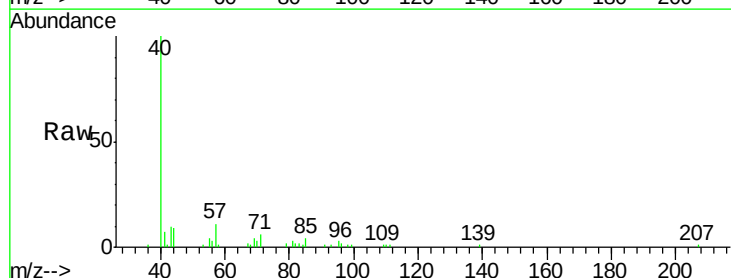
Acq: 20 Mar 2019 14:44

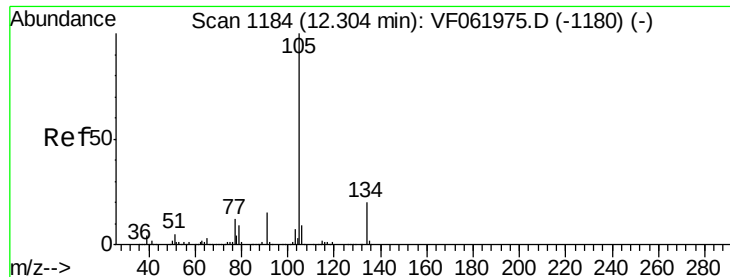
Tgt Ion: 91 Resp: 151

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.1#





#85

sec-Butylbenzene

Concen: 10.968 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. 0.14 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

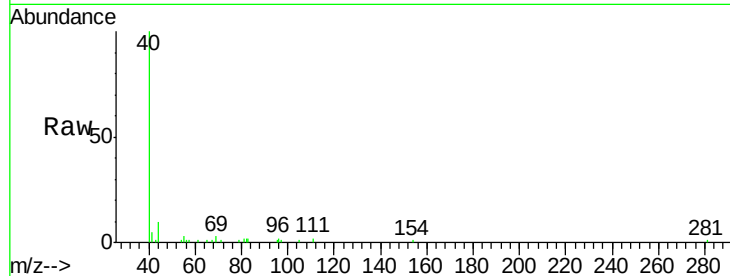
SB-9(7-8)-031519RE

Tot Ion: 105 Resp: 64

Ion Ratio Lower Upper

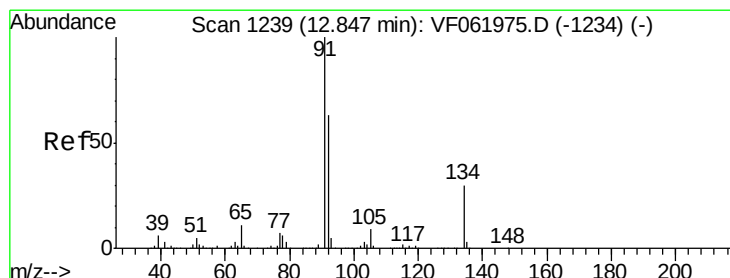
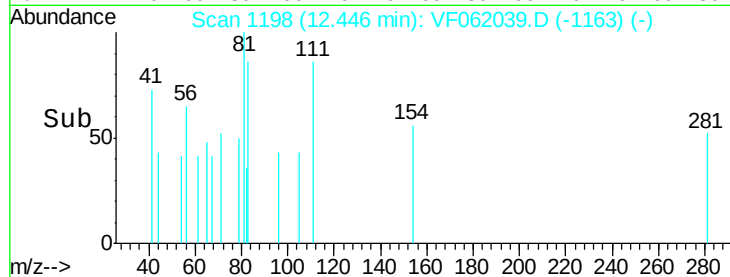
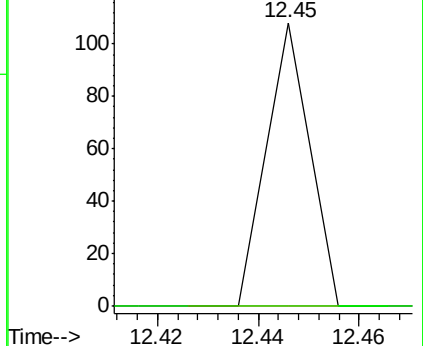
105 100

134 0.0 10.0 29.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 13.114 ug/l

RT: 12.88 min Scan# 1242

Delta R.T. 0.03 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

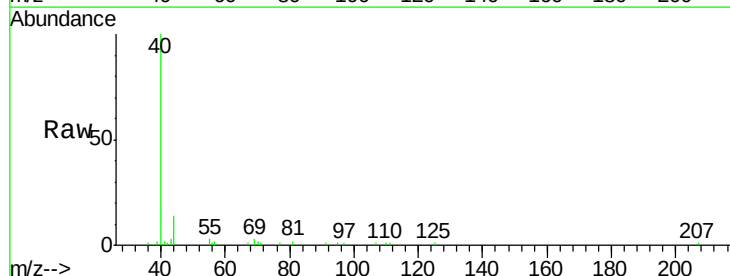
Tgt Ion: 91 Resp: 60

Ion Ratio Lower Upper

91 100

92 0.0 31.7 95.1#

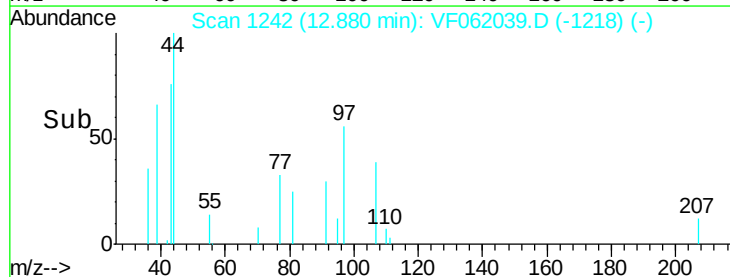
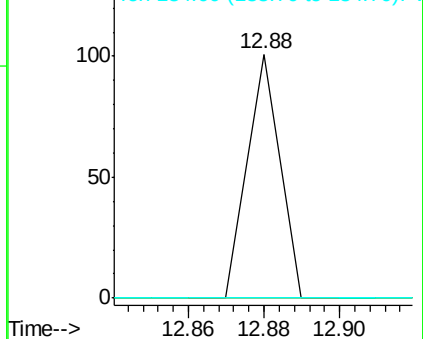
134 0.0 15.1 45.3#

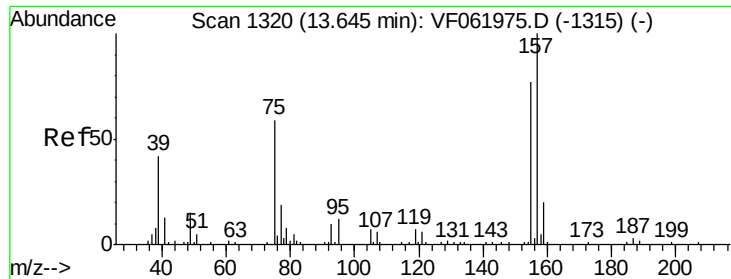


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 443.083 ug/l

RT: 13.66 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VF062039.D

Acq: 20 Mar 2019 14:44

Instrument :

MSVOA_F

ClientSampleId :

SB-9(7-8)-031519RE

Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 65.0 195.1#

157 0.0 84.7 254.0#

