

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF032219\
 Data File : VF062085.D
 Acq On : 22 Mar 2019 16:24
 Operator : VA/AP
 Sample : K2043-01
 Misc : 5.28g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB442-190319-(12-14)

Quant Time: Mar 23 04:14:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	178969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.63	114	304192	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.84	117	129551	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.58	152	68553	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	92440	69.44	ug/l	0.00
Spiked Amount			Recovery	=	138.88%	
35) Dibromofluoromethane	4.15	113	127237	61.83	ug/l	0.00
Spiked Amount			Recovery	=	123.66%	
50) Toluene-d8	7.59	98	326494	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
62) 4-Bromofluorobenzene	11.53	95	1295324	546.25	ug/l	0.10
Spiked Amount			Recovery	=	1092.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.65	74	683	1.116	ug/l	78
11) Tert butyl alcohol	2.60	59	1461	19.947	ug/l #	61
13) Acrolein	2.01	56	848	9.628	ug/l #	41
14) Allyl chloride	2.07	41	1881	1.021	ug/l #	21
15) Acrylonitrile	2.96	53	1270	4.931	ug/l	89
16) Acetone	2.25	43	57908	206.689	ug/l	99
17) Carbon Disulfide	1.83	76	6677	1.269	ug/l #	89
18) Methyl Acetate	2.40	43	9300	13.916	ug/l #	56
20) Methylene Chloride	2.20	84	5277	Below Cal		94
25) 2-Butanone	4.37	43	36871	63.039	ug/l #	88
29) Tetrahydrofuran	4.04	42	15456	60.778	ug/l #	1
31) Cyclohexane	3.79	56	49728	16.442	ug/l #	59
37) Ethyl Acetate	4.04	43	160944	127.102	ug/l #	12
39) Methylcyclohexane	5.49	83	332820	98.972	ug/l	94
40) Benzene	4.67	78	802012	103.253	ug/l	99
41) Methacrylonitrile	4.70	41	121861	181.885	ug/l #	63
43) Isopropyl Acetate	7.06	43	47519	30.987	ug/l #	43
48) Methyl methacrylate	6.85	41	248403	284.495	ug/l #	39
49) 1,4-Dioxane	6.57	88	75	9.789	ug/l #	1
51) 4-Methyl-2-Pentanone	8.33	43	531748	518.075	ug/l #	38
52) Toluene	7.66	92	45438	10.100	ug/l	88
55) 1,1,2-Trichloroethane	8.46	97	176010	137.733	ug/l #	37
56) Ethyl methacrylate	8.69	69	542994	356.284	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.35	63	1332	5.760	ug/l #	48
59) 2-Hexanone	9.58	43	131388	174.660	ug/l #	39
65) Chlorobenzene	9.89	112	13755155	5674.598	ug/l #	65
67) Ethyl Benzene	9.95	91	113163	26.844	ug/l	96
68) m/p-Xylenes	10.17	106	40098	25.449	ug/l	93
69) o-Xylene	10.74	106	16694	10.116	ug/l	53
73) Isopropylbenzene	11.16	105	373548	77.438	ug/l	99
74) N-amyl acetate	11.45	43	1279415	1113.112	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	11.71	83	693642	837.466	ug/l #	42
76) 1,2,3-Trichloropropane	11.79	75	1904	3.266	ug/l #	1
77) Bromobenzene	11.45	156	20226	17.162	ug/l #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

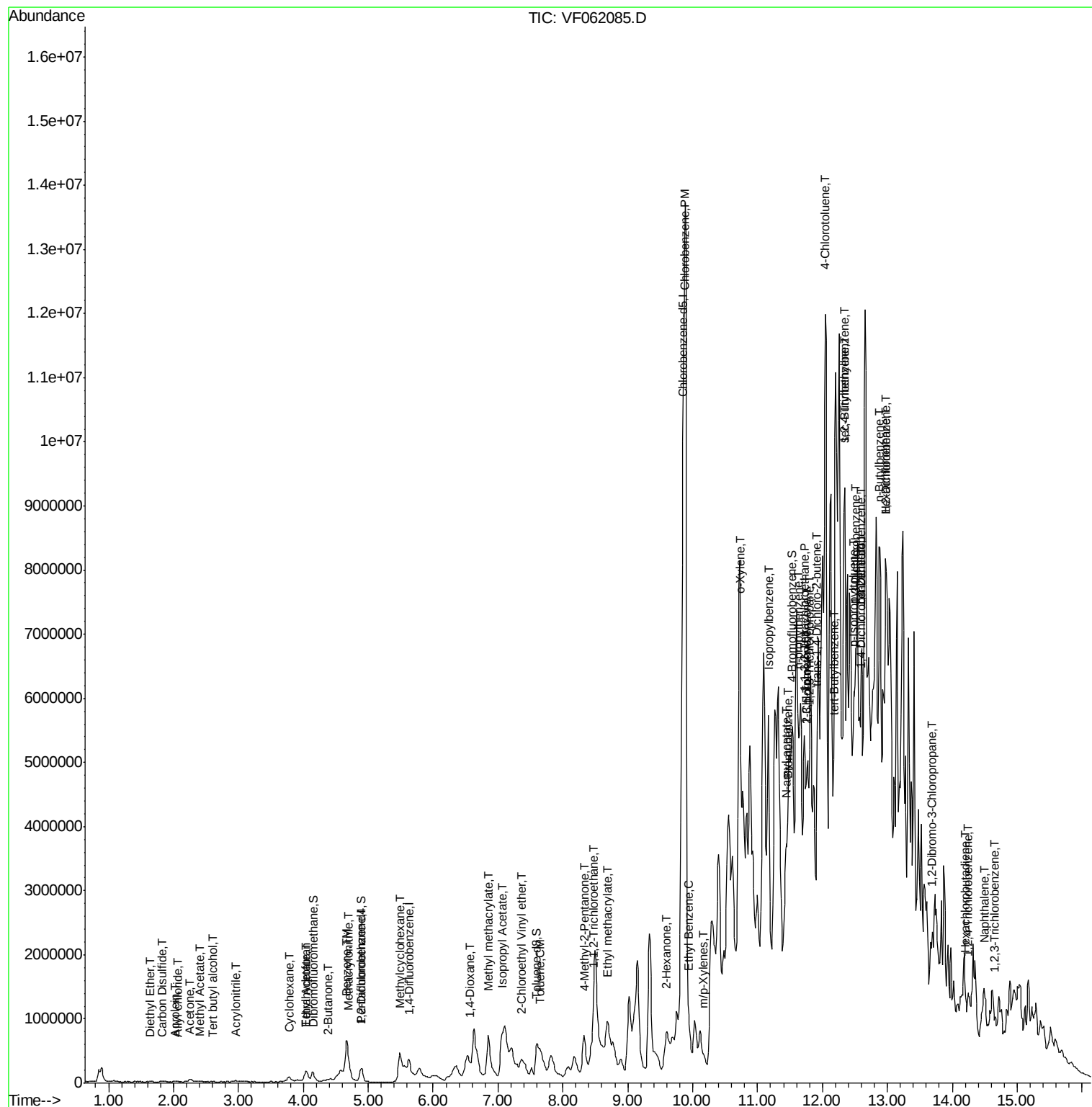
78) n-propylbenzene	11.63	91	743545	132.744	uq/l	94
79) 2-Chlorotoluene	11.75	91	110686	35.552	uq/l #	56
80) 1,3,5-Trimethylbenzene	11.75	105	15626	3.938	uq/l #	61
81) trans-1,4-Dichloro-2-buten	11.91	75	301	1.267	uq/l #	1
82) 4-Chlorotoluene	12.06	91	91708	28.729	uq/l	83
83) tert-Butylbenzene	12.16	119	433008	104.250	uq/l	82
84) 1,2,4-Trimethylbenzene	12.35	105	558298	143.533	uq/l #	26
85) sec-Butylbenzene	12.35	105	560789	104.366	uq/l #	64
86) p-Isopropyltoluene	12.47	119	20508	4.405	uq/l #	1
87) 1,3-Dichlorobenzene	12.51	146	1164601	531.884	uq/l #	78
88) 1,4-Dichlorobenzene	12.60	146	1405104	657.641	uq/l #	79
89) n-Butylbenzene	12.87	91	430891	97.017	uq/l	94
90) Hexachloroethane	12.96	117	44128	39.809	uq/l #	22
91) 1,2-Dichlorobenzene	12.97	146	78894	38.373	uq/l #	25
92) 1,2-Dibromo-3-Chloropropan	13.69	75	6442	51.332	uq/l #	35
93) 1,2,4-Trichlorobenzene	14.23	180	7919	5.526	uq/l #	56
94) Hexachlorobutadiene	14.22	225	1123	1.179	uq/l	95
95) Naphthalene	14.48	128	38275	15.242	uq/l #	15
96) 1,2,3-Trichlorobenzene	14.66	180	11698	8.721	uq/l #	44

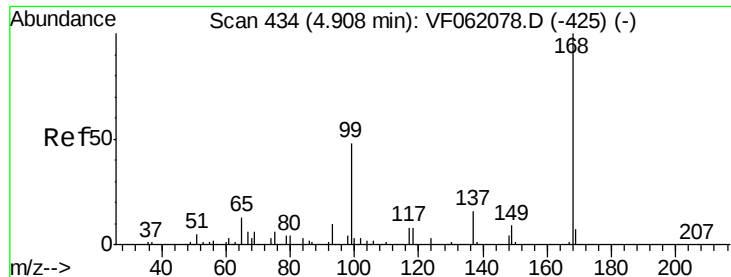
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. -0.00 min

Lab File: VF062085.D

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Instrument :

MSVOA_F

ClientSampleId :

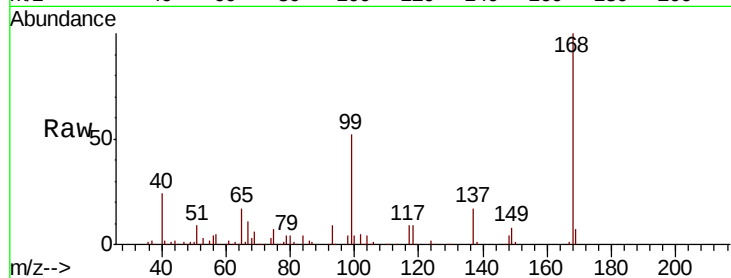
WP022SB442-190319-(12-14)

Tot Ion:168 Resp: 178969

Ion Ratio Lower Upper

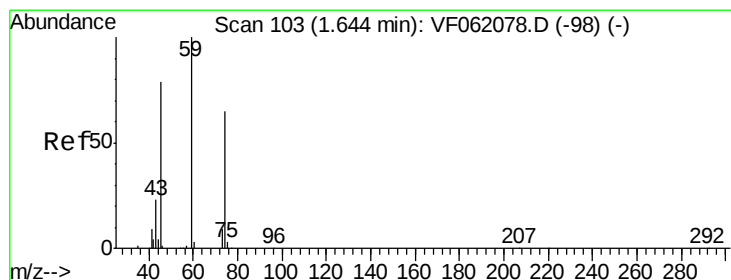
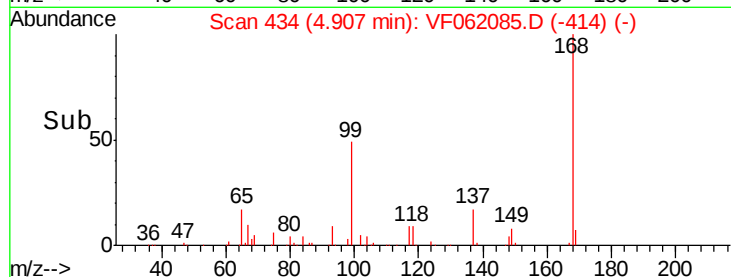
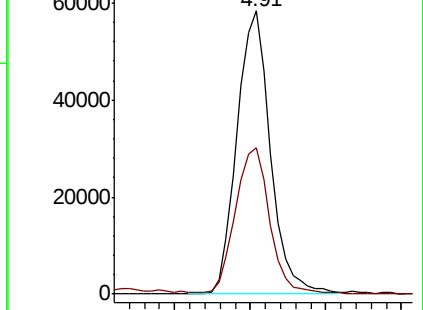
168 100

99 51.9 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.116 ug/l

RT: 1.65 min Scan# 104

Delta R.T. 0.01 min

Lab File: VF062085.D

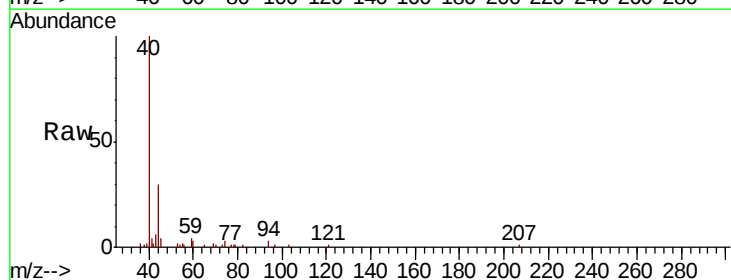
Acq: 22 Mar 2019 16:24

Tgt Ion: 74 Resp: 683

Ion Ratio Lower Upper

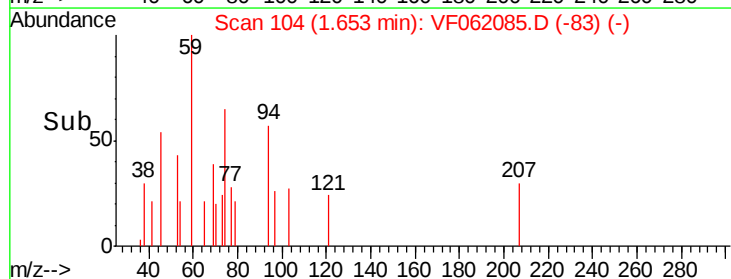
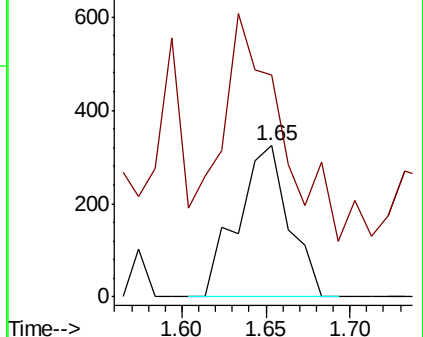
74 100

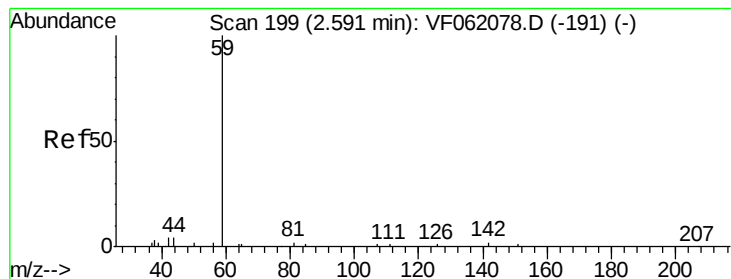
45 147.2 61.4 184.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



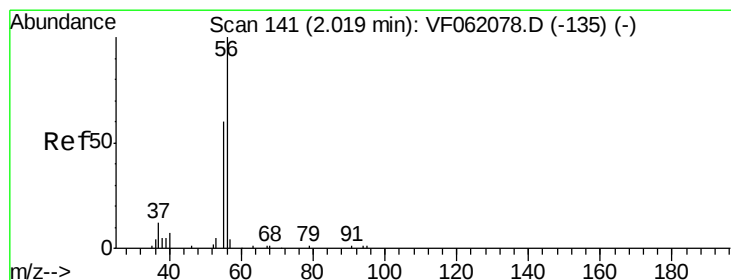
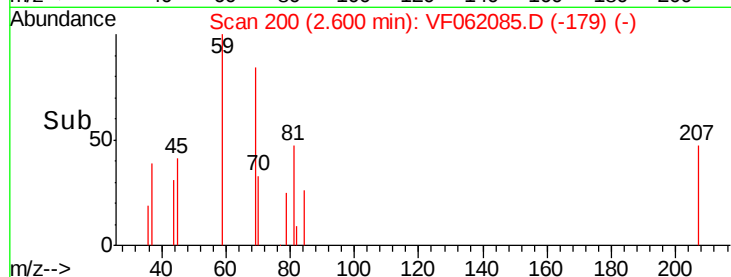
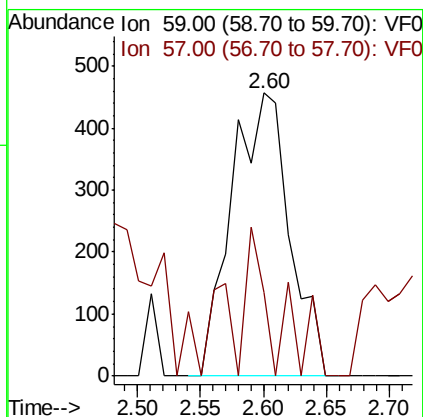
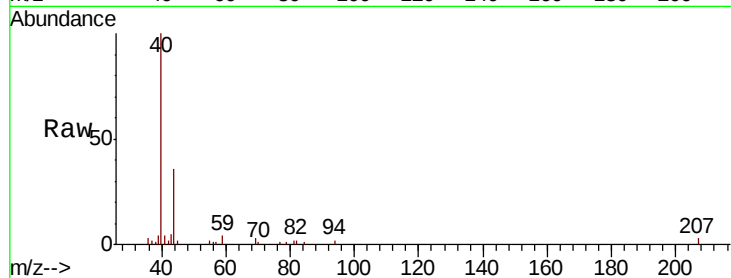


#11

Tert butyl alcohol
 Concen: 19.947 ug/l
 RT: 2.60 min Scan# 200
 Delta R.T. 0.01 min
 Lab File: VF062085.D
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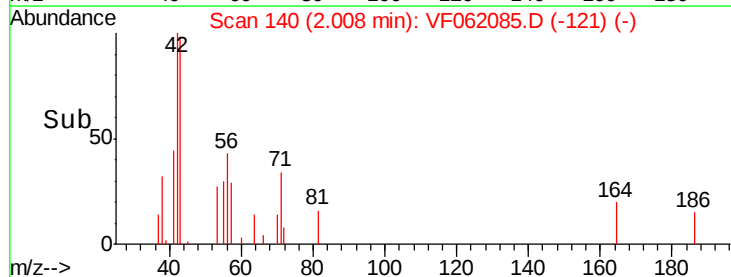
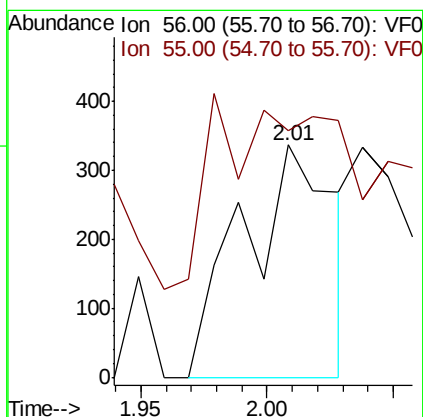
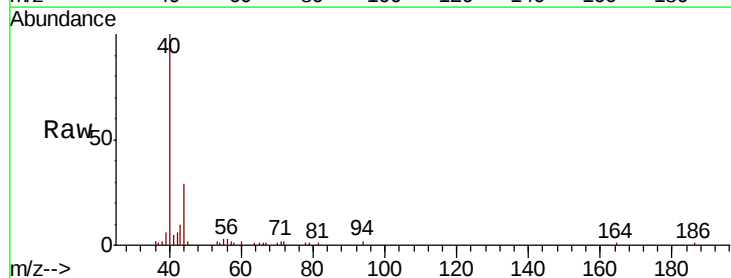
Tot Ion: 59 Resp: 1461
 Ion Ratio Lower Upper
 59 100
 57 29.5 11.0 16.4#

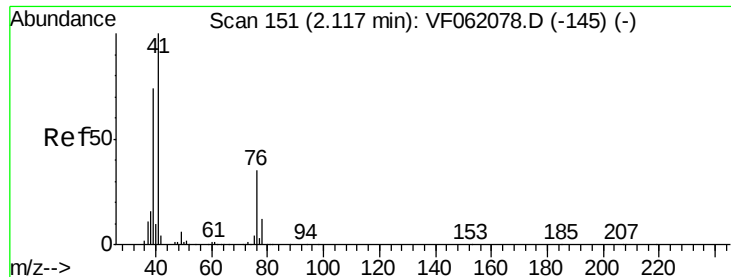


#13

Acrolein
 Concen: 9.628 ug/l
 RT: 2.01 min Scan# 140
 Delta R.T. -0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

Tgt Ion: 56 Resp: 848
 Ion Ratio Lower Upper
 56 100
 55 105.9 49.0 73.4#





#14

Allvl chloride

Concen: 1.021 ug/l

RT: 2.07 min Scan# 146

Delta R.T. -0.05 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

WP022SB442-190319-(12-14)

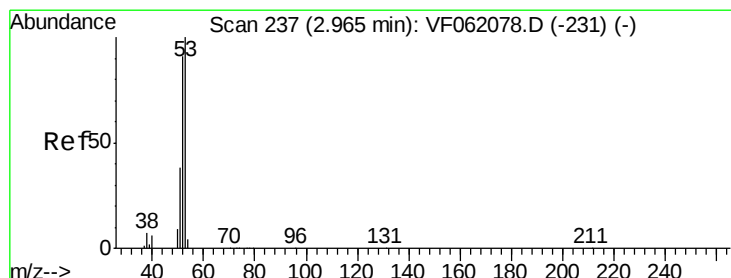
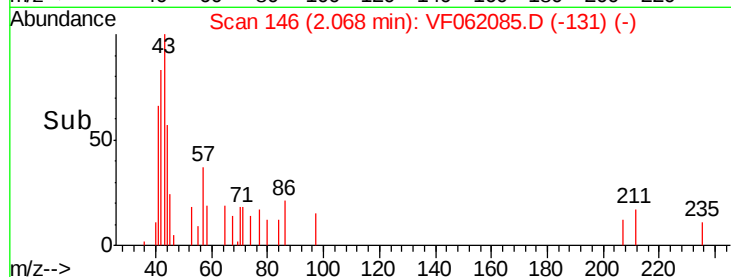
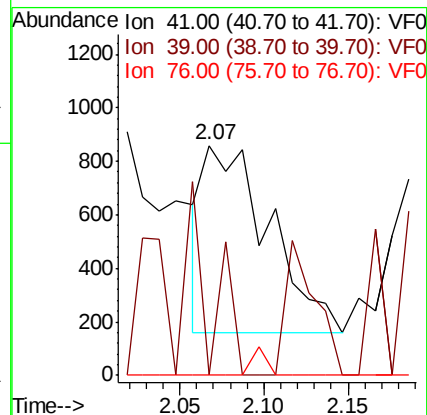
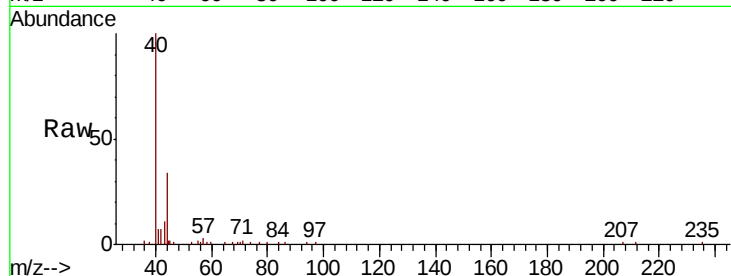
Tot Ion: 41 Resp: 1881

Ion Ratio Lower Upper

41 100

39 0.0 59.8 89.8#

76 0.0 30.0 45.0#



#15

Acrylonitrile

Concen: 4.931 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

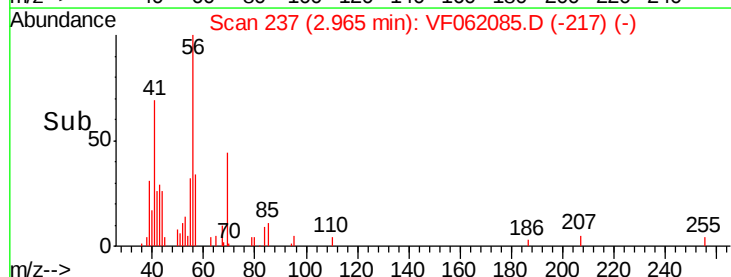
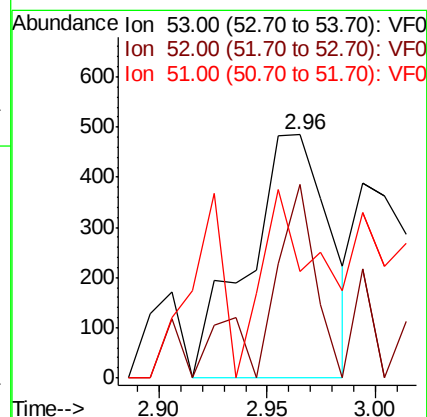
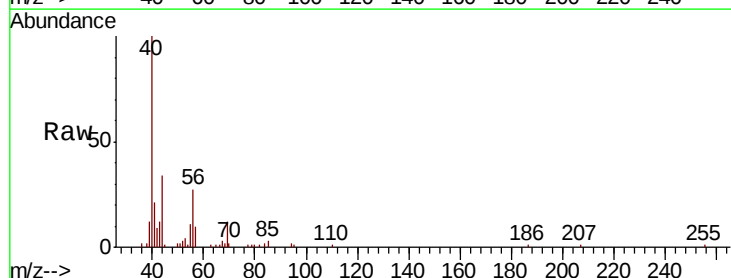
Tgt Ion: 53 Resp: 1270

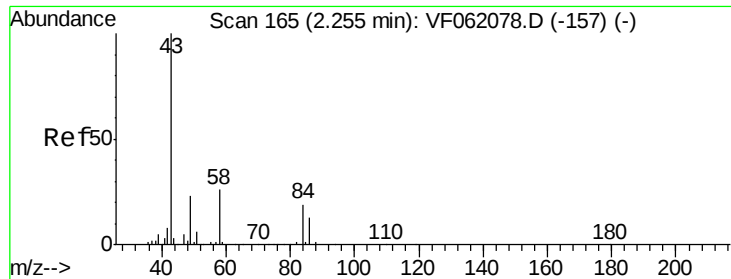
Ion Ratio Lower Upper

53 100

52 79.6 72.3 108.5

51 43.9 30.4 45.6

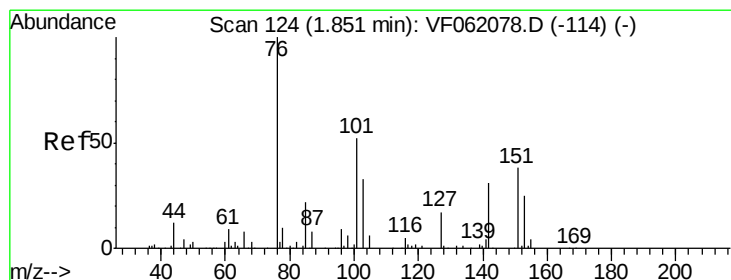
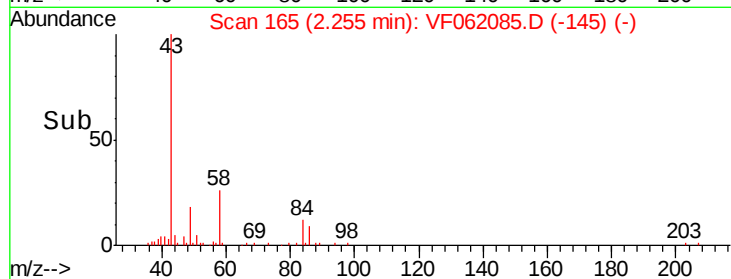
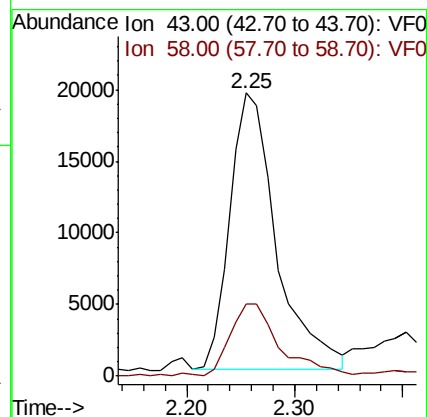
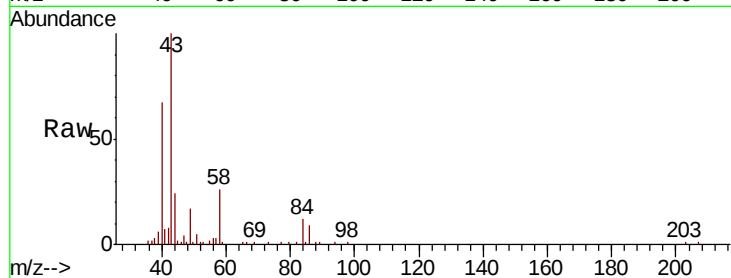




#16
Acetone
Concen: 206.689 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

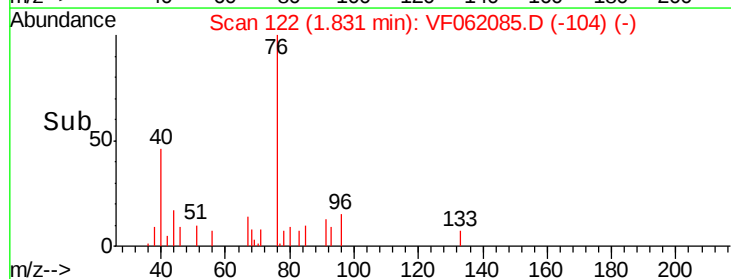
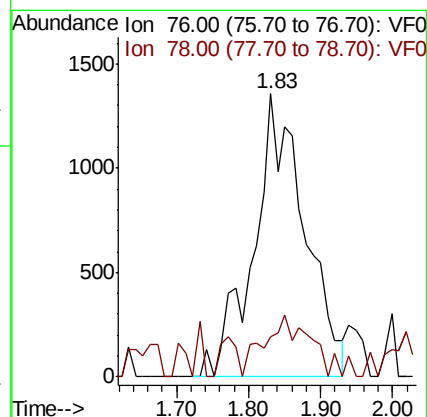
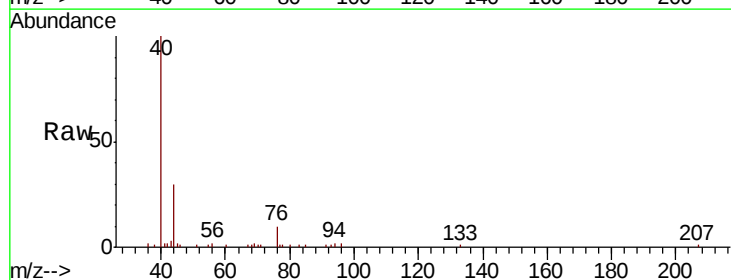
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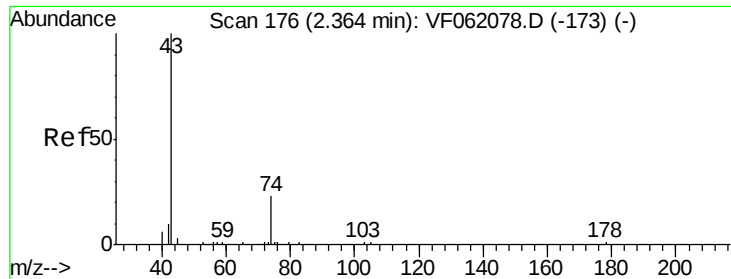
Tot Ion: 43 Resp: 57908
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2



#17
Carbon Disulfide
Concen: 1.269 ug/l
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 76 Resp: 6677
Ion Ratio Lower Upper
76 100
78 14.1 7.9 11.9#

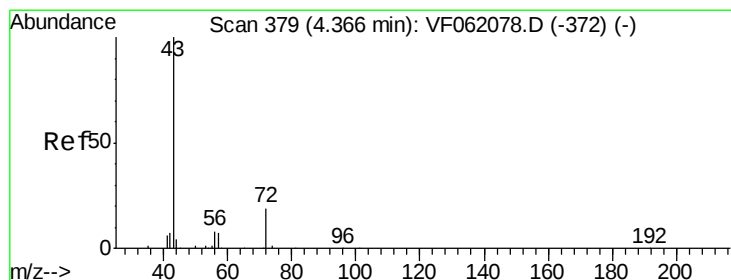
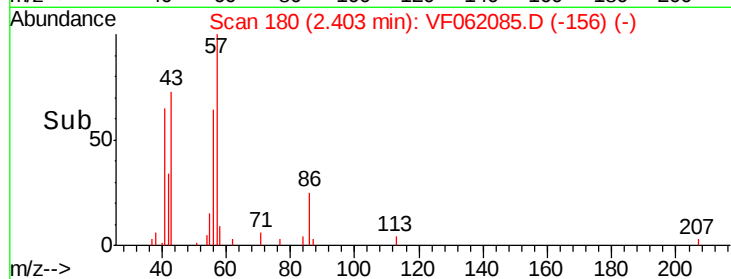
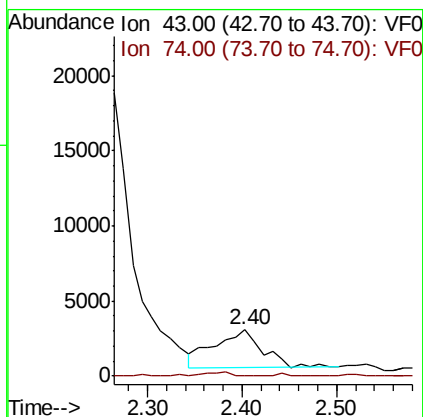
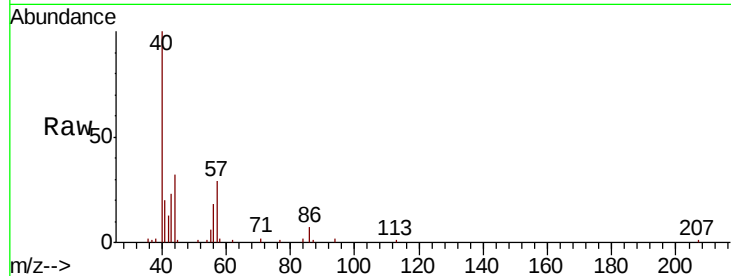




#18
Methyl Acetate
Concen: 13.916 ug/l
RT: 2.40 min Scan# 180
Delta R.T. 0.04 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

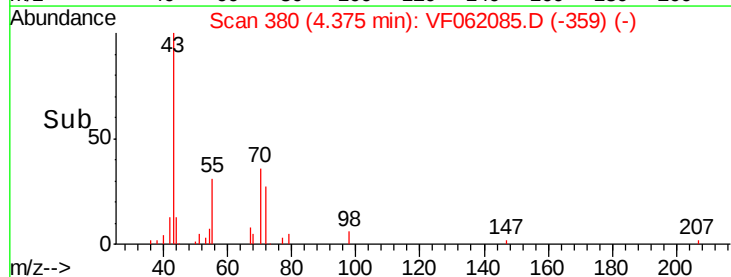
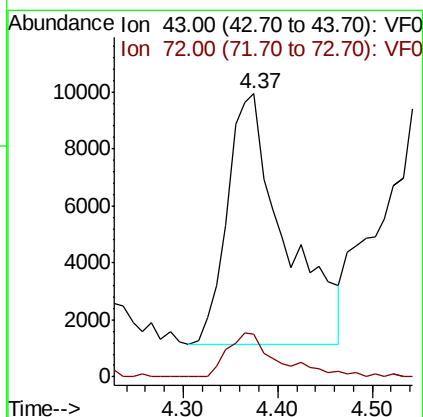
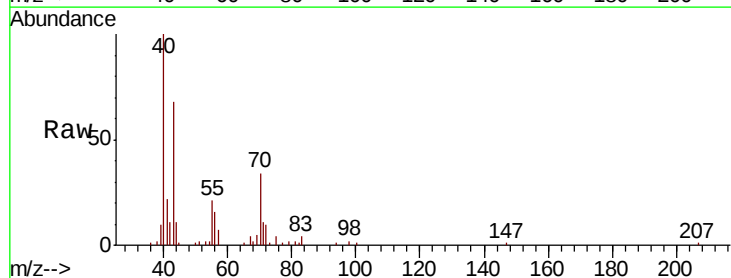
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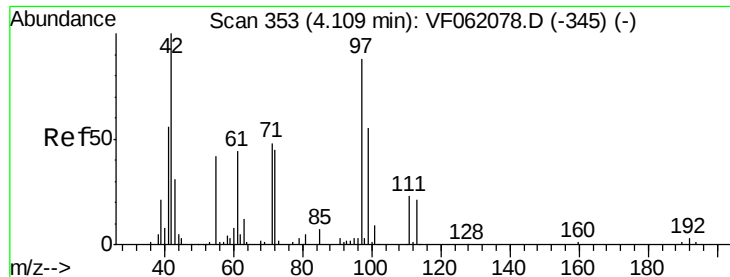
Tot Ion: 43 Resp: 9300
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#25
2-Butanone
Concen: 63.039 ug/l
RT: 4.37 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 43 Resp: 36871
Ion Ratio Lower Upper
43 100
72 15.3 16.7 25.1#

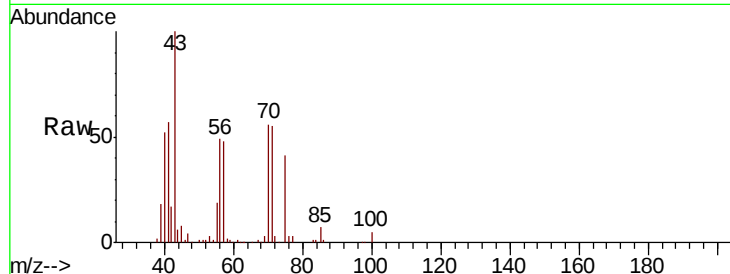




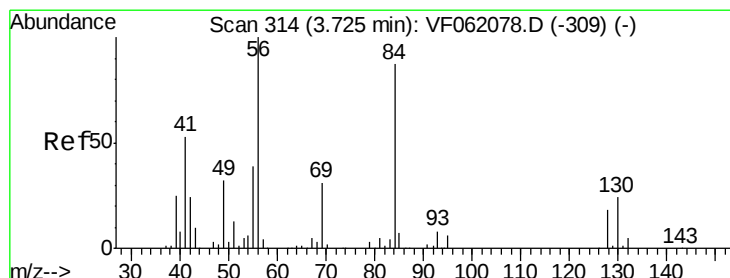
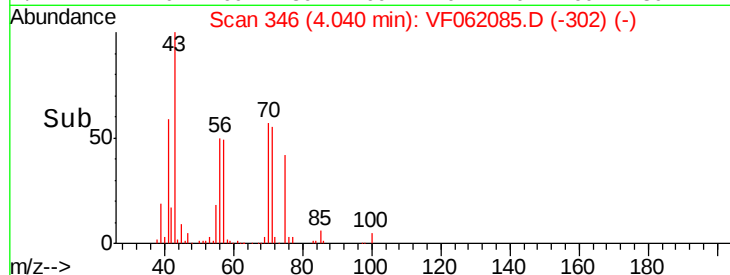
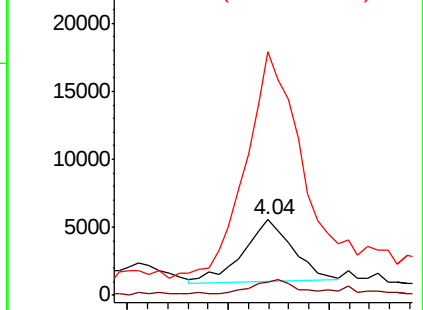
#29
Tetrahydrofuran
Concen: 60.778 ug/l
RT: 4.04 min Scan# 346
Delta R.T. -0.07 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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Tot Ion: 42 Resp: 15456
Ion Ratio Lower Upper
42 100
72 23.4 33.3 49.9#
71 574.1 35.0 52.4#

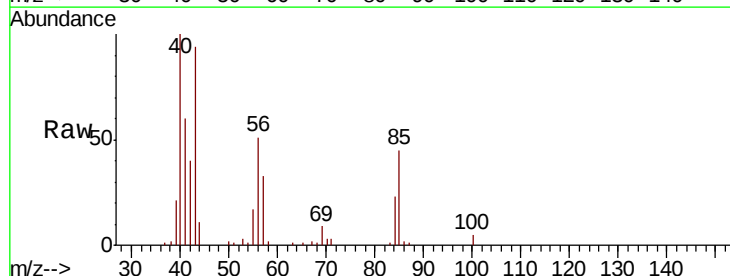


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

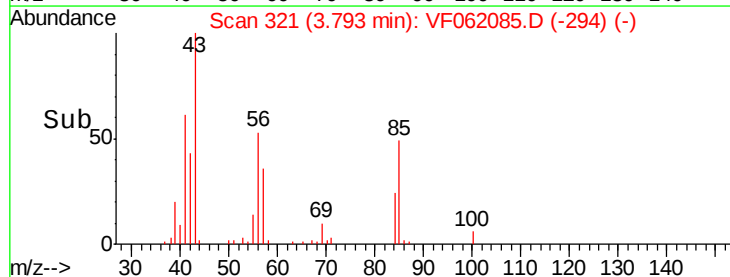
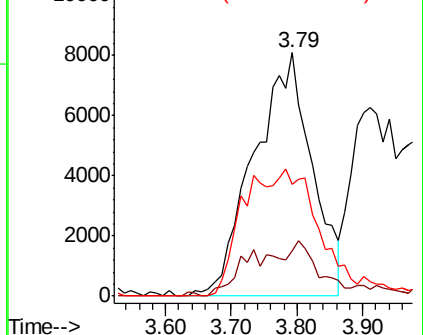


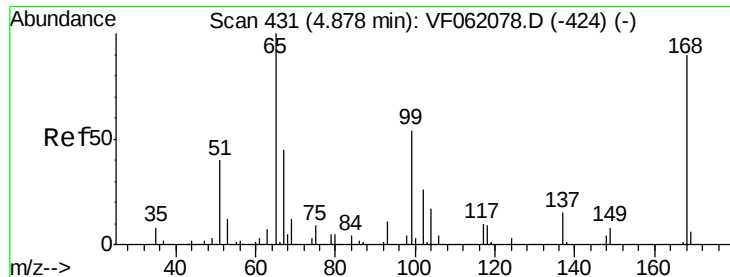
#31
Cyclohexane
Concen: 16.442 ug/l
RT: 3.79 min Scan# 321
Delta R.T. 0.07 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 56 Resp: 49728
Ion Ratio Lower Upper
56 100
69 18.4 25.9 38.9#
84 45.7 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 69.442 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

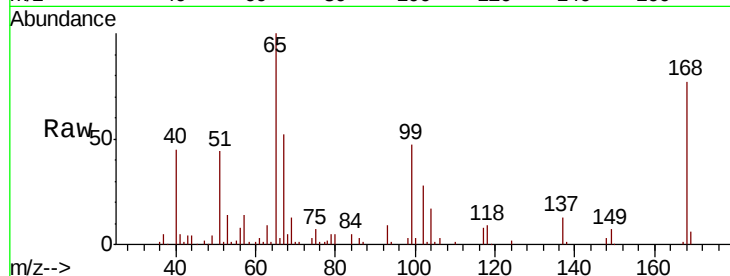
WP022SB442-190319-(12-14)

Tot Ion: 65 Resp: 92440

Ion Ratio Lower Upper

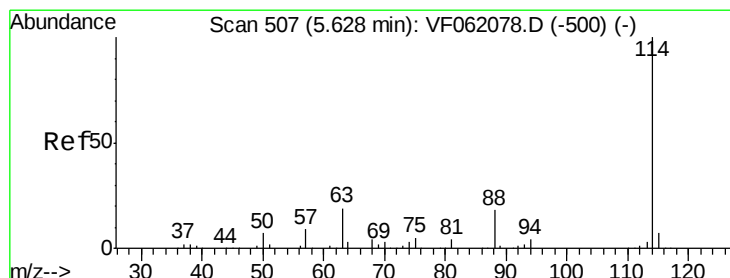
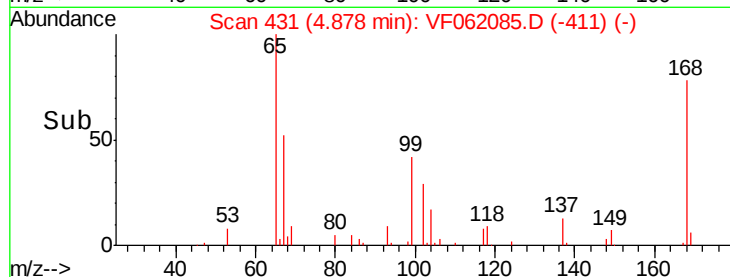
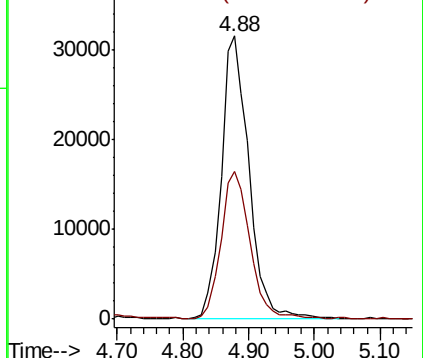
65 100

67 52.4 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. -0.00 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

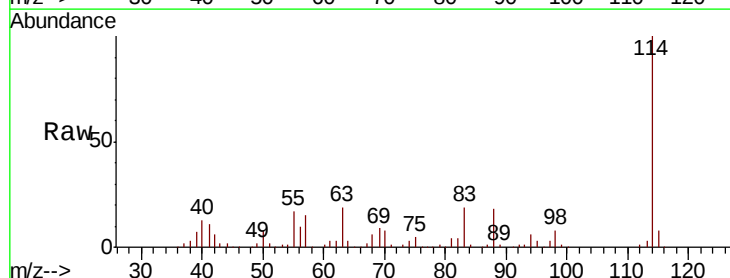
Tgt Ion: 114 Resp: 304192

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.8

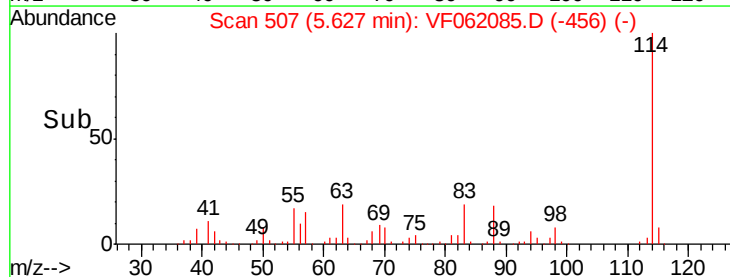
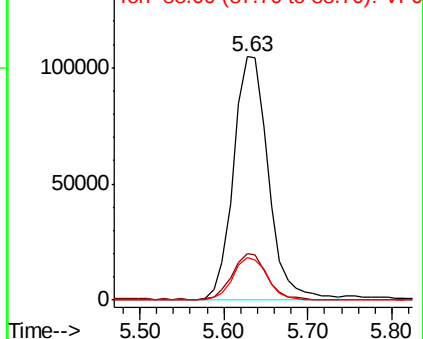
88 17.8 0.0 36.4

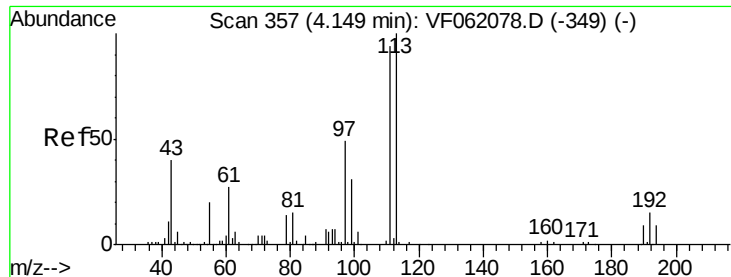


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

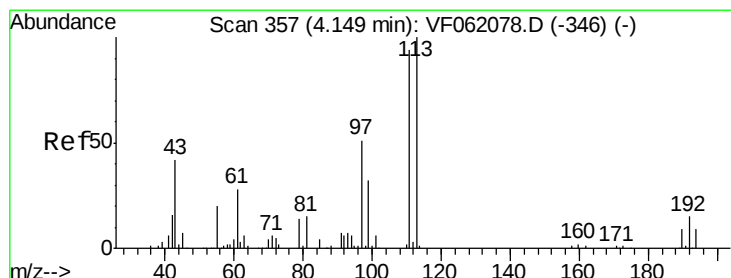
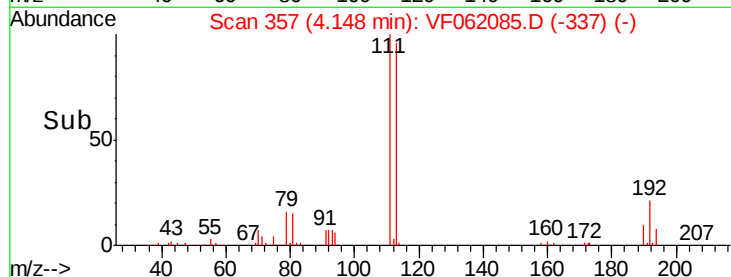
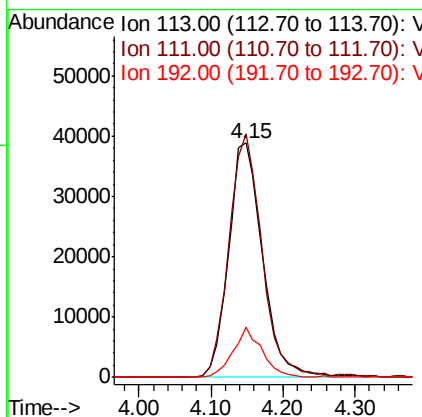
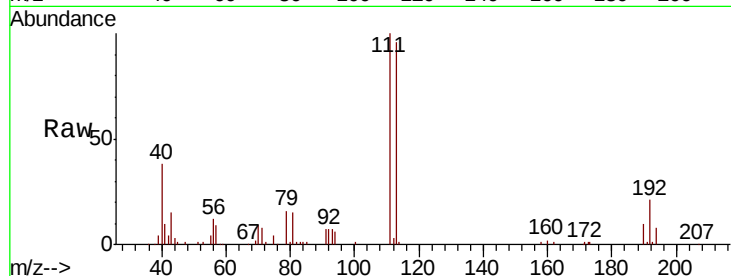




#35
Dibromofluoromethane
Concen: 61.833 ug/l
RT: 4.15 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

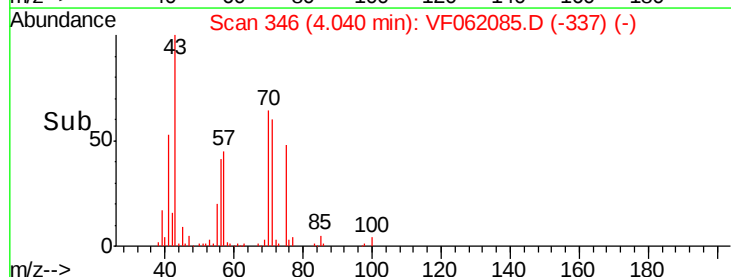
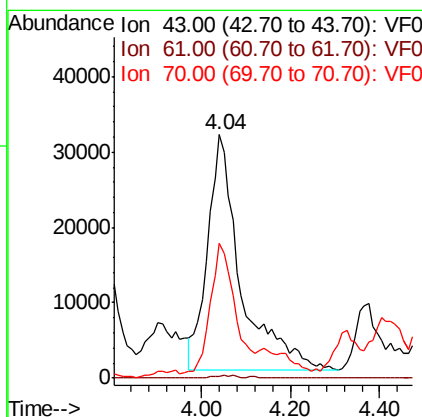
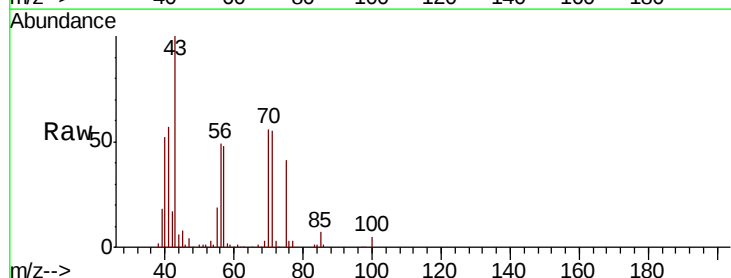
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

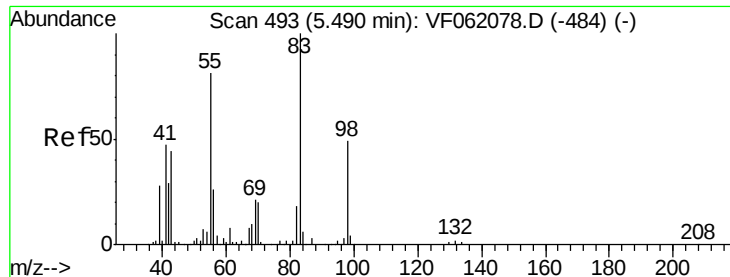
Tot Ion:113 Resp: 127237
Ion Ratio Lower Upper
113 100
111 103.8 75.4 113.0
192 22.2 12.3 18.5#



#37
Ethyl Acetate
Concen: 127.102 ug/l
RT: 4.04 min Scan# 346
Delta R.T. -0.11 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 43 Resp: 160944
Ion Ratio Lower Upper
43 100
61 0.7 53.6 80.4#
70 55.6 9.0 13.6#

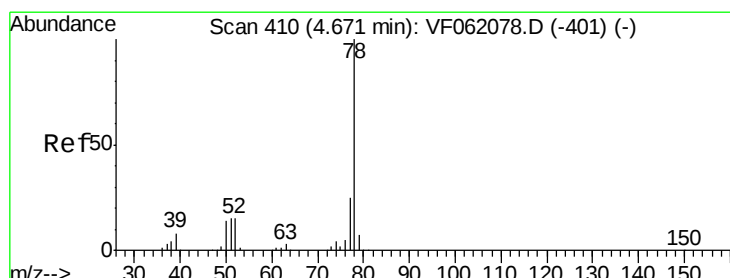
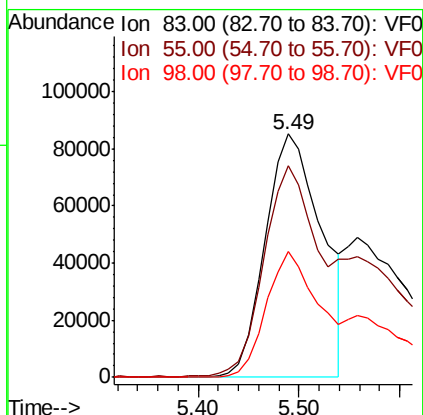
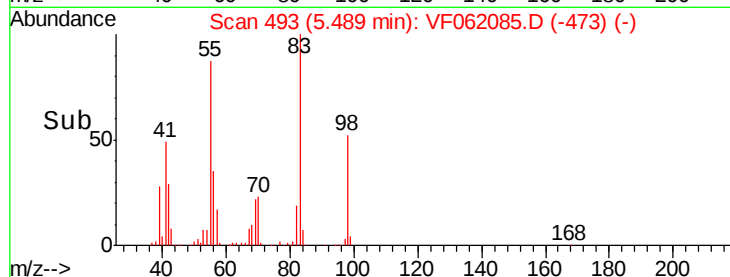
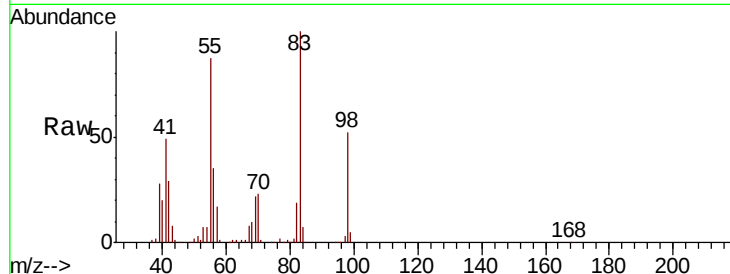




#39
Methylvlcvclohexane
Concen: 98.972 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

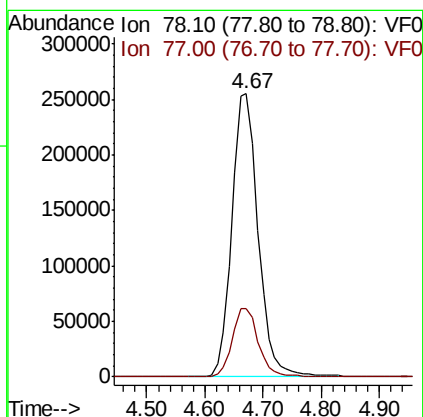
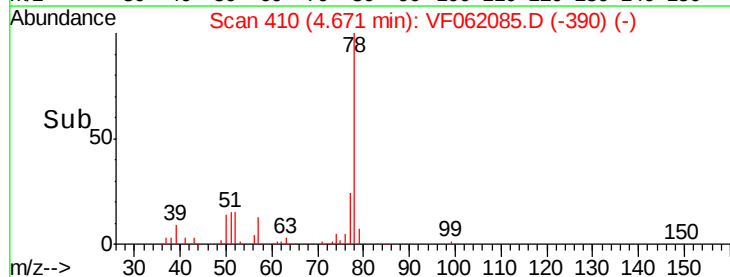
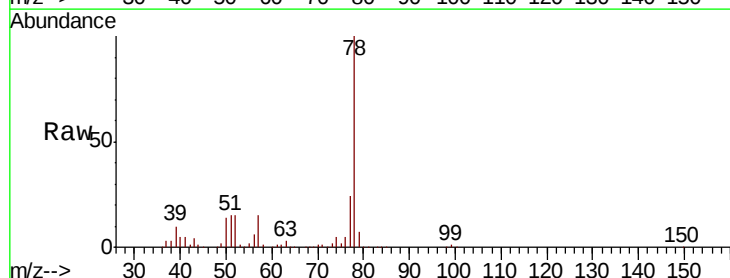
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

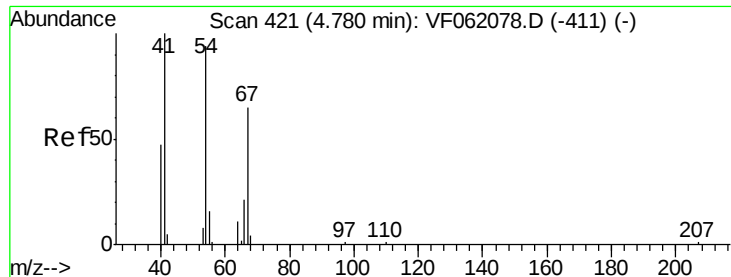
Tot Ion: 83 Resp: 332820
Ion Ratio Lower Upper
83 100
55 86.8 64.5 96.7
98 51.7 39.1 58.7



#40
Benzene
Concen: 103.253 ug/l
RT: 4.67 min Scan# 410
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 78 Resp: 802012
Ion Ratio Lower Upper
78 100
77 24.0 19.8 29.6

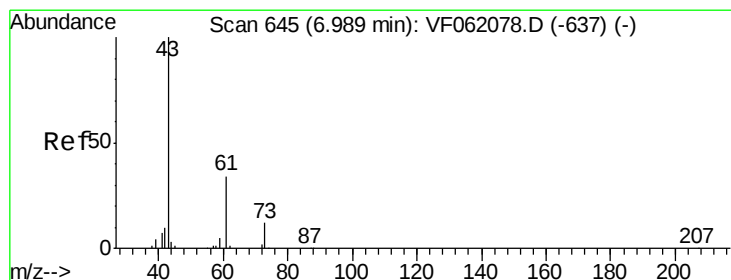
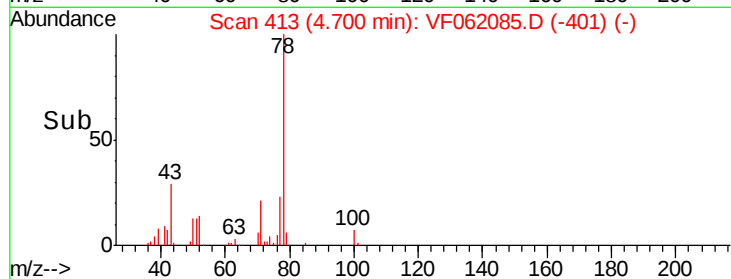
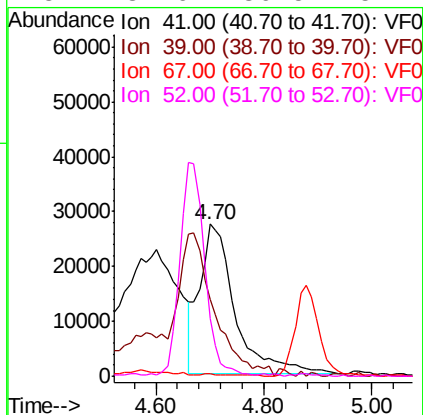
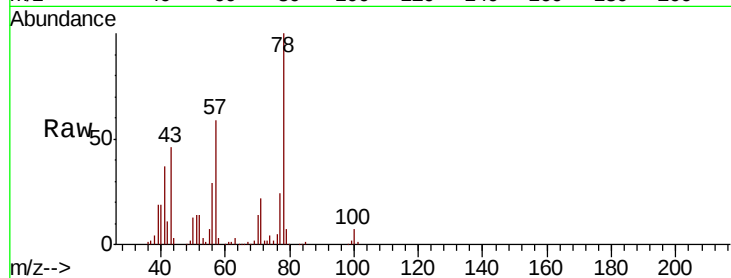




#41
Methacrylonitrile
Concen: 181.885 ug/l
RT: 4.70 min Scan# 413
Delta R.T. -0.08 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

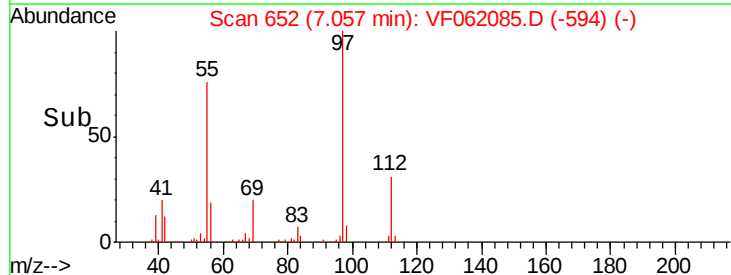
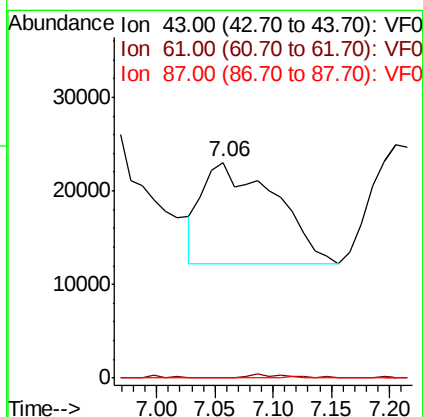
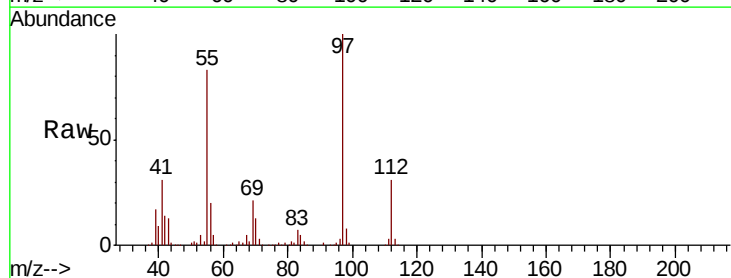
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

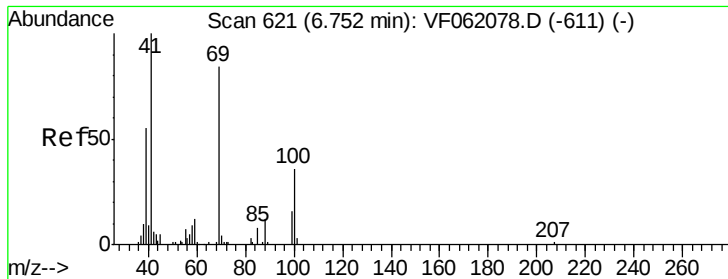
Tot Ion:	41	Resp:	121861
Ion	Ratio	Lower	Upper
41	100		
39	50.3	43.5	65.3
67	1.8	51.6	77.4#
52	37.6	36.5	54.7



#43
Isopropyl Acetate
Concen: 30.987 ug/l
RT: 7.06 min Scan# 652
Delta R.T. 0.07 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion:	43	Resp:	47519
Ion	Ratio	Lower	Upper
43	100		
61	0.5	27.0	40.4#
87	0.0	0.4	0.6#





#48

Methyl methacrylate

Concen: 284.495 ug/l

RT: 6.85 min Scan# 631

Delta R.T. 0.10 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

WP022SB442-190319-(12-14)

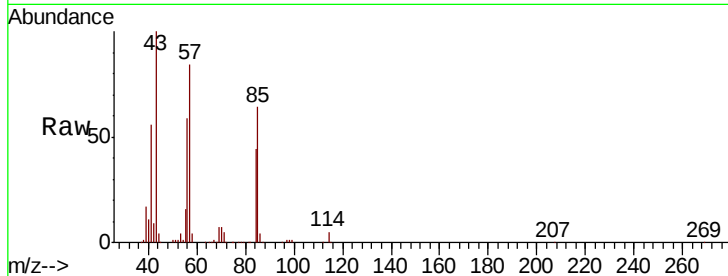
Tot Ion: 41 Resp: 248403

Ion Ratio Lower Upper

41 100

69 11.7 66.6 100.0#

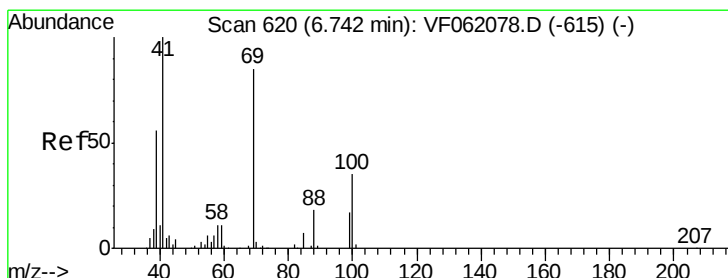
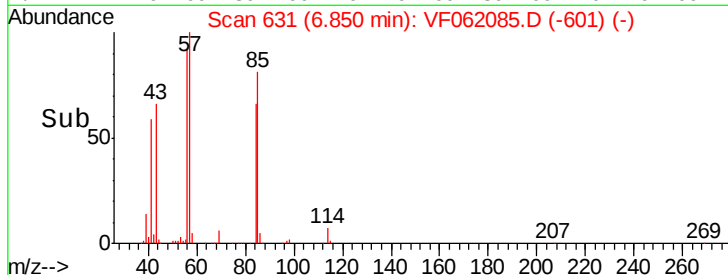
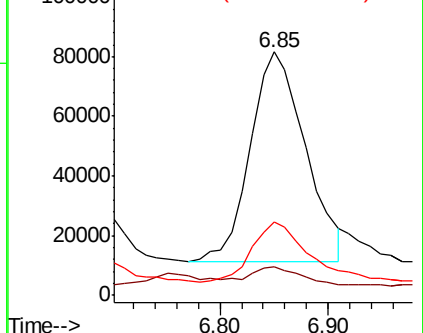
39 30.2 43.6 65.4#



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



#49

1,4-Dioxane

Concen: 9.789 ug/l

RT: 6.57 min Scan# 603

Delta R.T. -0.17 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

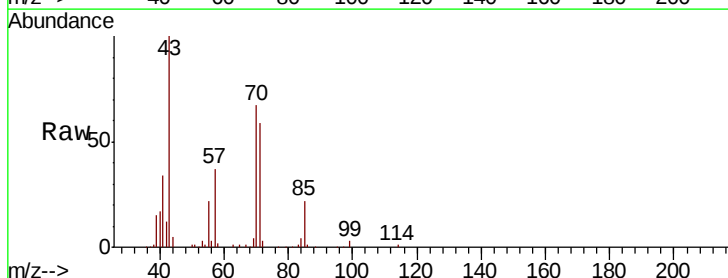
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 57618.9 35.0 52.4#

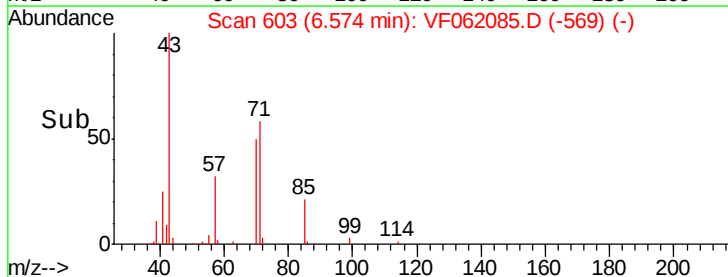
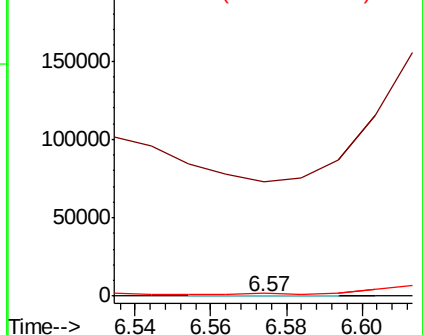
58 1268.5 49.9 74.9#

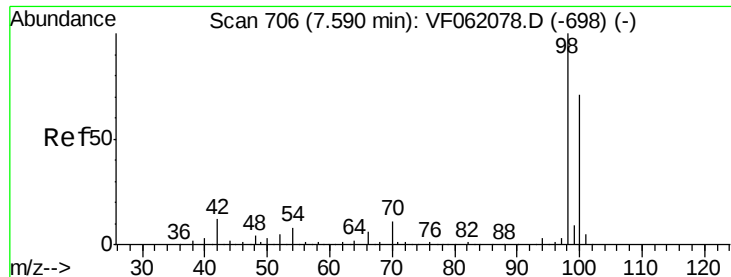


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

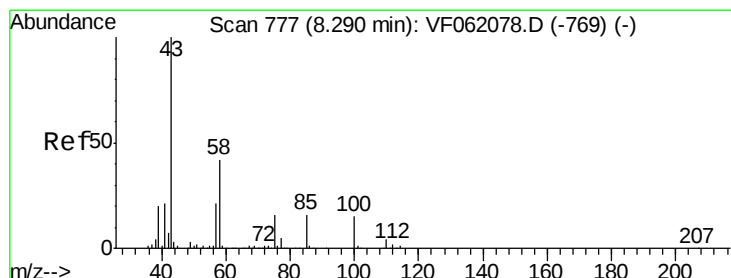
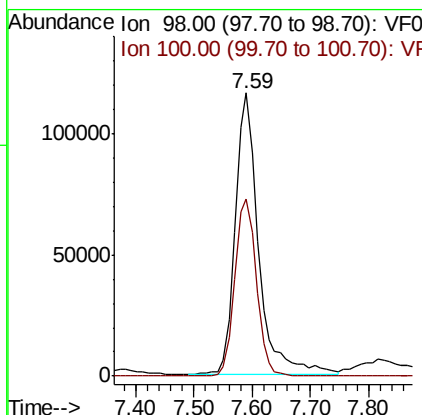
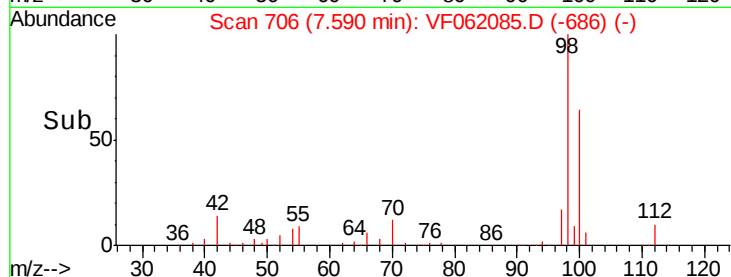
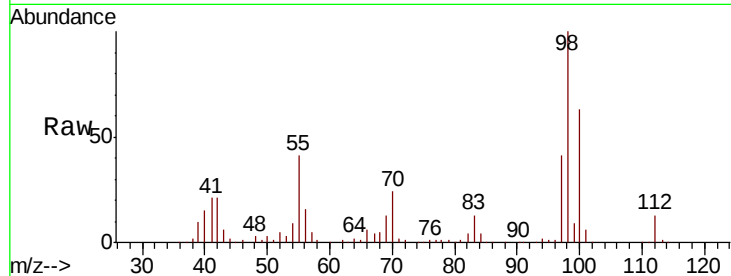




#50
Toluene-d8
Concen: 53.154 ug/l
RT: 7.59 min Scan# 706
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

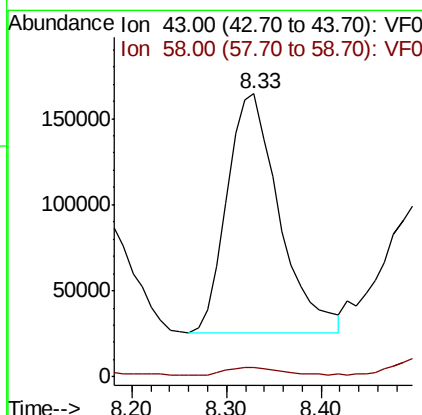
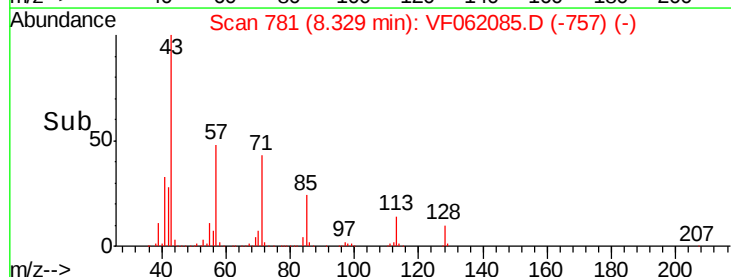
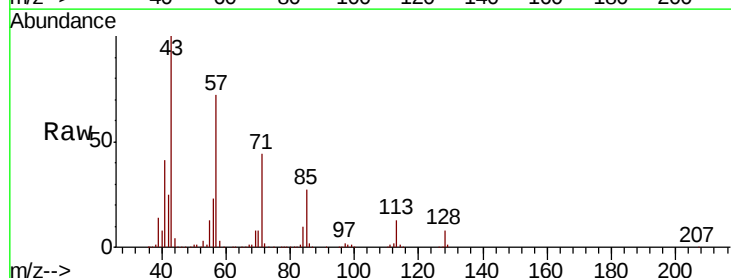
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

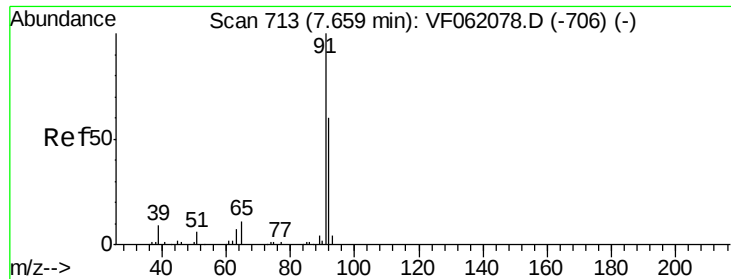
Tot Ion: 98 Resp: 326494
Ion Ratio Lower Upper
98 100
100 62.8 57.0 85.6



#51
4-Methyl-2-Pentanone
Concen: 518.075 ug/l
RT: 8.33 min Scan# 781
Delta R.T. 0.04 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 43 Resp: 531748
Ion Ratio Lower Upper
43 100
58 3.2 33.8 50.8#





#52

Toluene

Concen: 10.100 ug/l

RT: 7.66 min Scan# 713

Delta R.T. -0.00 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

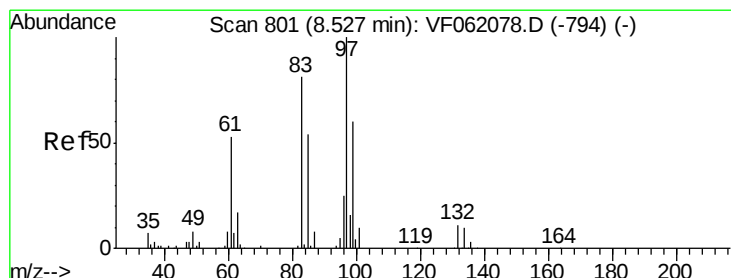
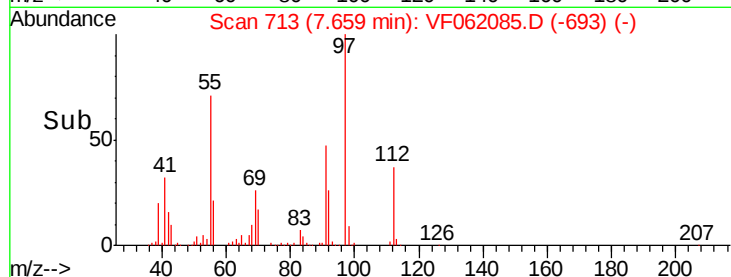
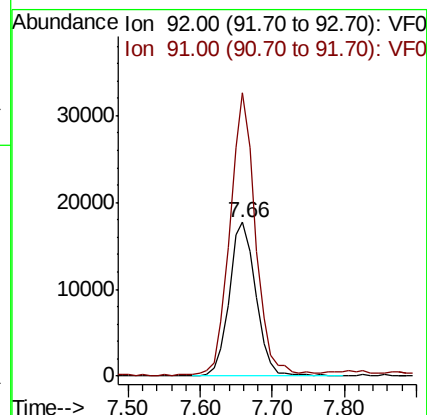
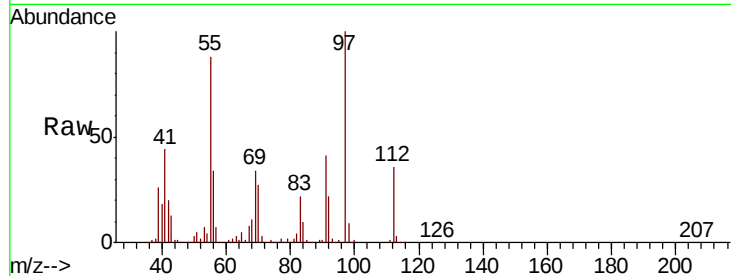
WP022SB442-190319-(12-14)

Tot Ion: 92 Resp: 45438

Ion Ratio Lower Upper

92 100

91 184.0 134.1 201.1



#55

1,1,2-Trichloroethane

Concen: 137.733 ug/l

RT: 8.46 min Scan# 794

Delta R.T. -0.07 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Tgt Ion: 97 Resp: 176010

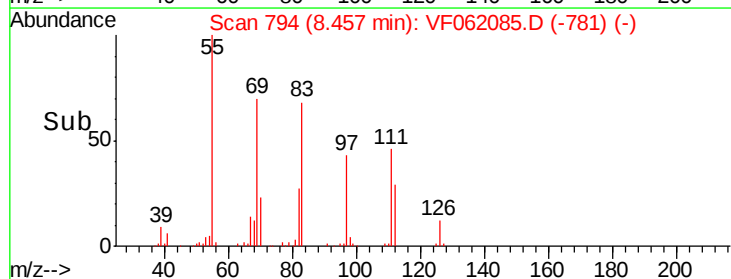
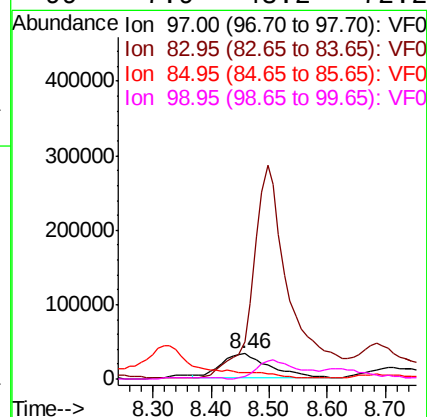
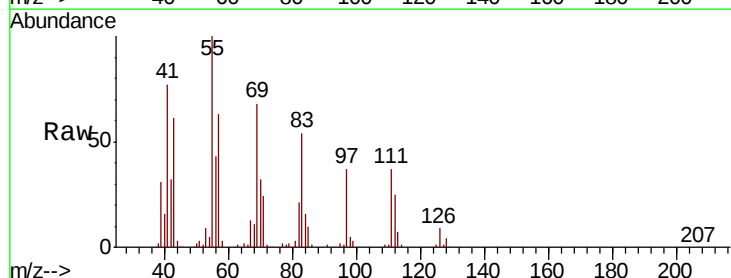
Ion Ratio Lower Upper

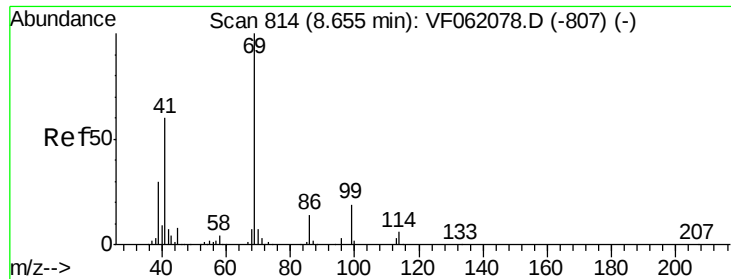
97 100

83 147.4 64.6 97.0#

85 26.8 43.6 65.4#

99 7.9 48.2 72.2#





#56

Ethyl methacrylate

Concen: 356.284 ug/l

RT: 8.69 min Scan# 818

Delta R.T. 0.04 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

WP022SB442-190319-(12-14)

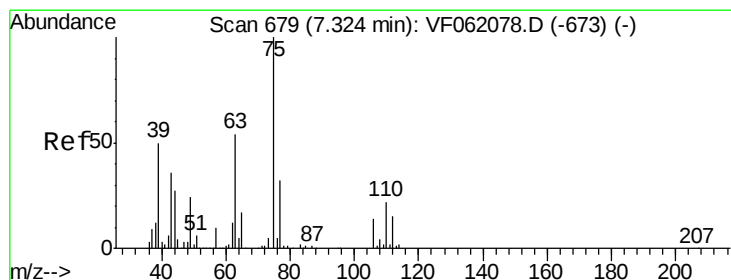
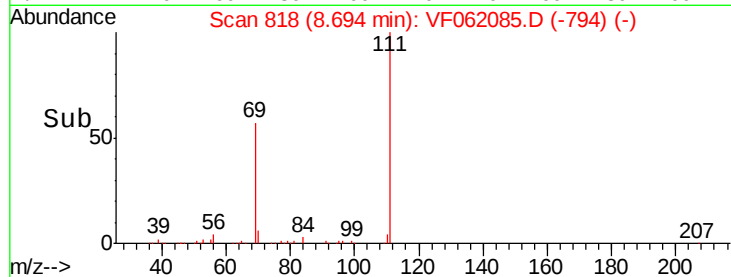
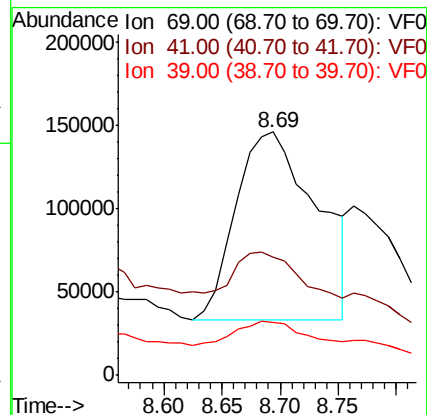
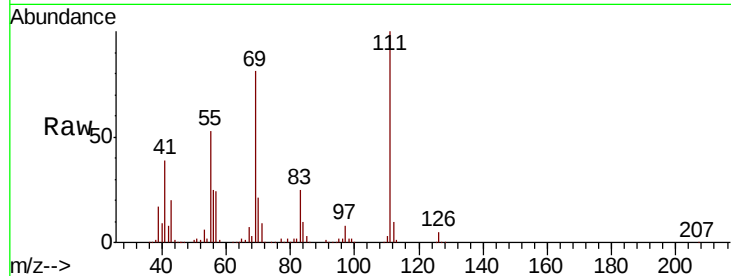
Tot Ion: 69 Resp: 542994

Ion Ratio Lower Upper

69 100

41 48.8 48.2 72.2

39 21.5 24.0 36.0#



#58

2-Chloroethyl Vinyl ether

Concen: 5.760 ug/l

RT: 7.35 min Scan# 682

Delta R.T. 0.03 min

Lab File: VF062085.D

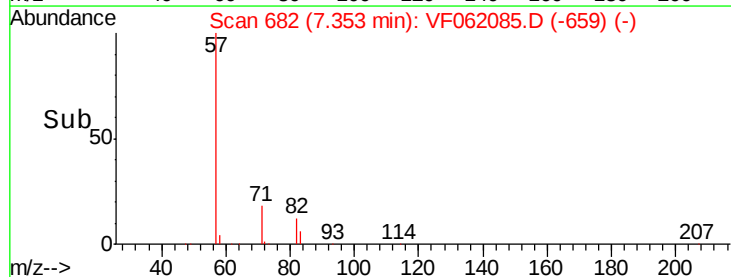
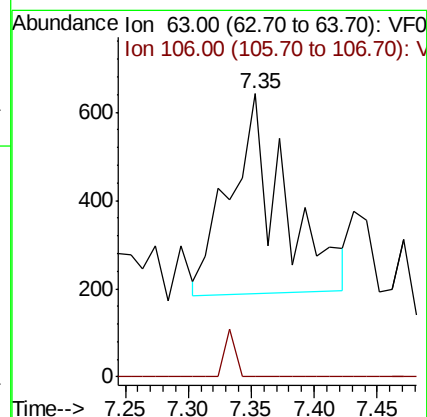
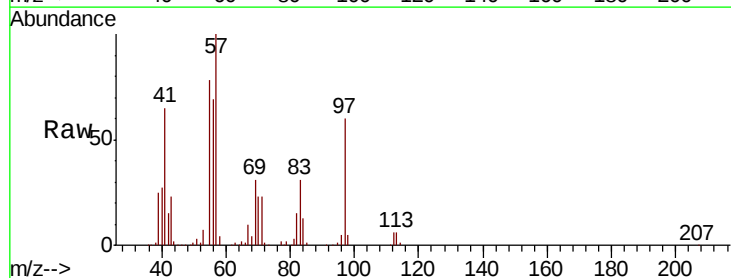
Acq: 22 Mar 2019 16:24

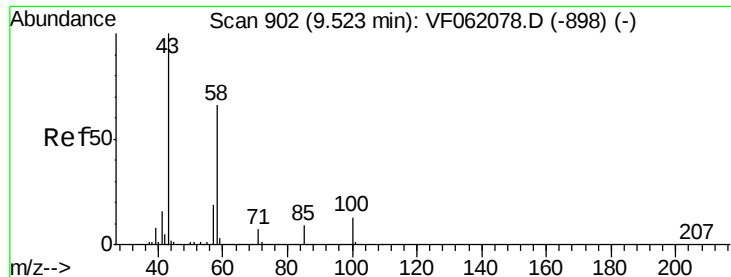
Tgt Ion: 63 Resp: 1332

Ion Ratio Lower Upper

63 100

106 0.0 21.5 32.3#

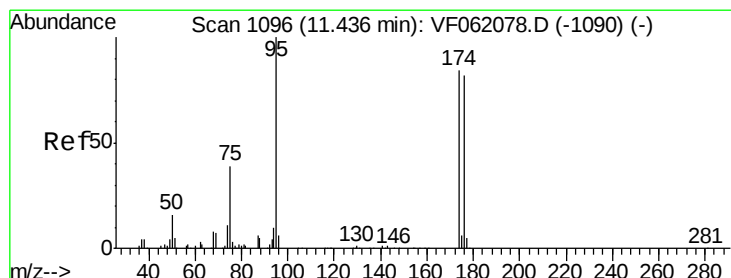
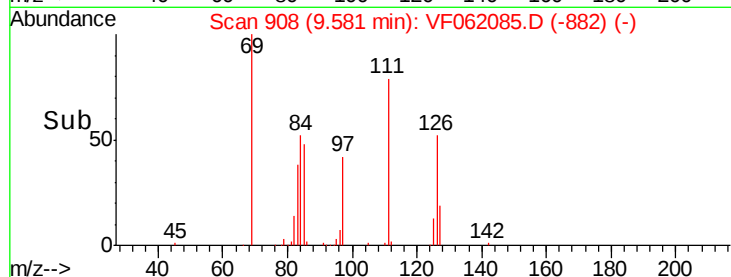
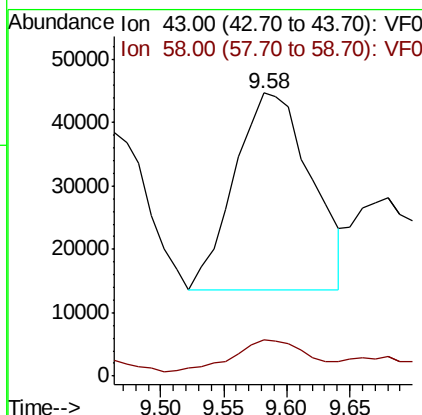
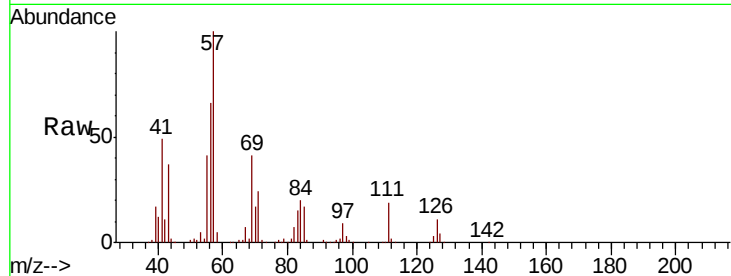




#59
2-Hexanone
Concen: 174.660 ug/l
RT: 9.58 min Scan# 908
Delta R.T. 0.06 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

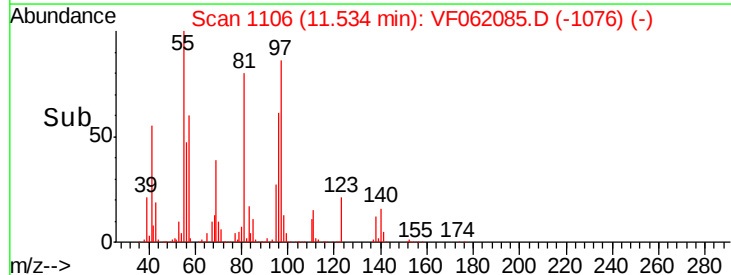
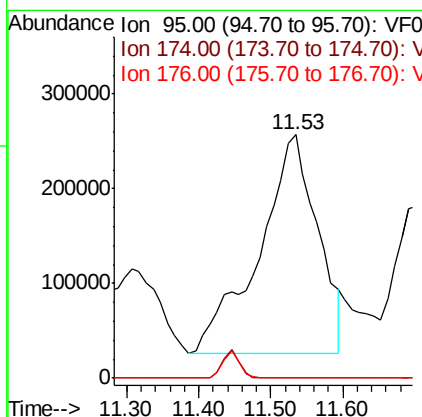
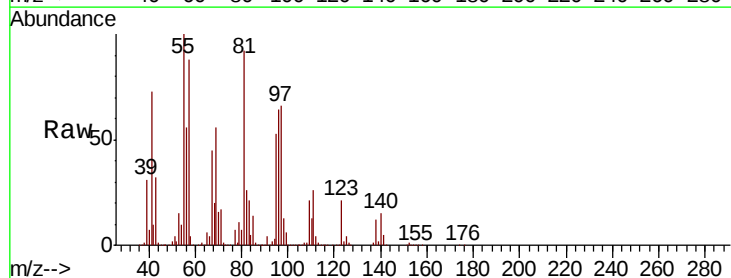
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

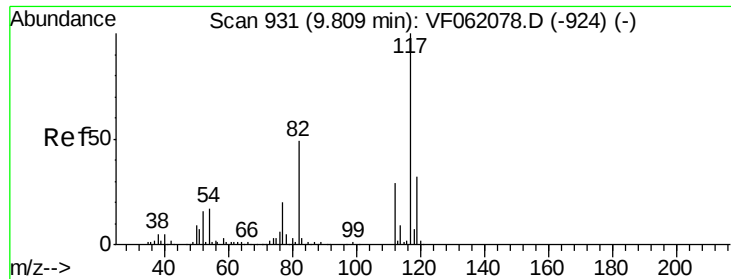
Tot Ion: 43 Resp: 131388
Ion Ratio Lower Upper
43 100
58 12.7 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: 546.249 ug/l
RT: 11.53 min Scan# 1106
Delta R.T. 0.10 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 95 Resp: 1295324
Ion Ratio Lower Upper
95 100
174 0.1 0.0 168.2
176 0.1 0.0 164.2

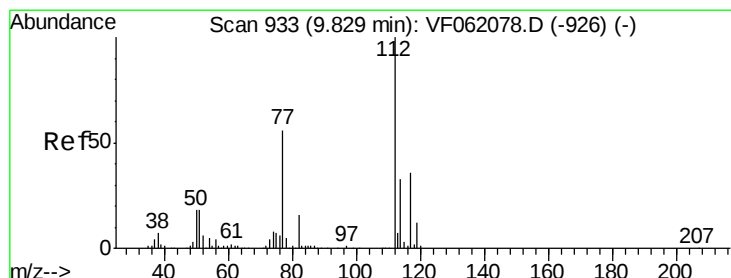
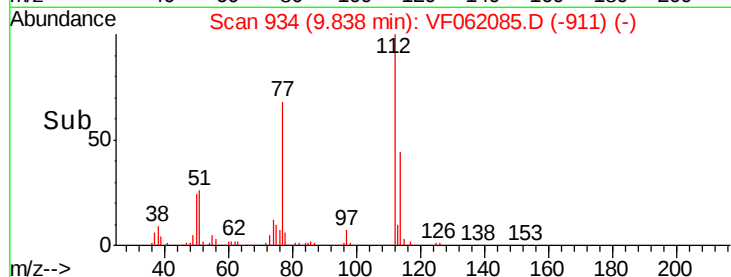
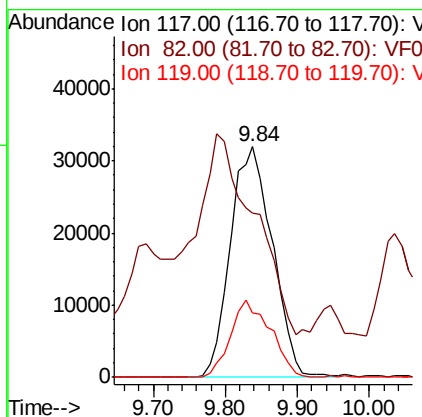
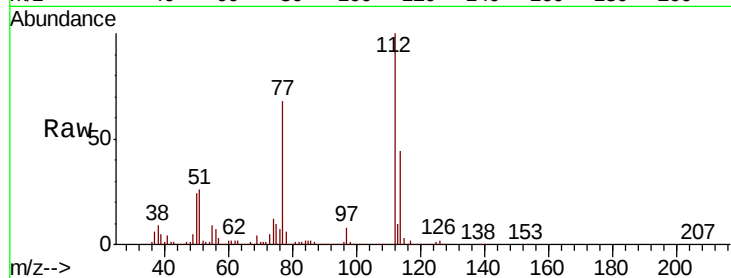




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.84 min Scan# 934
Delta R.T. 0.03 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

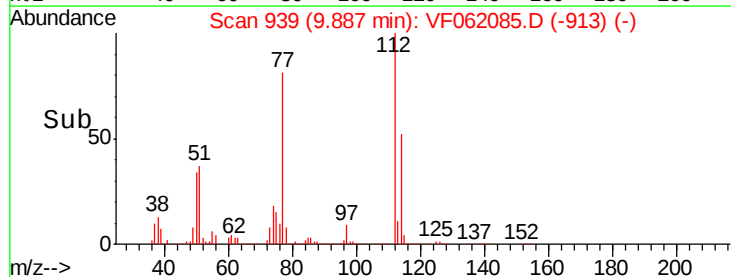
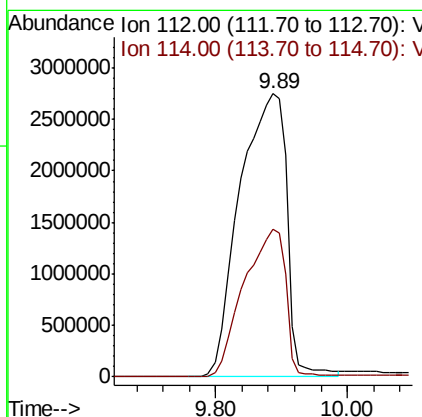
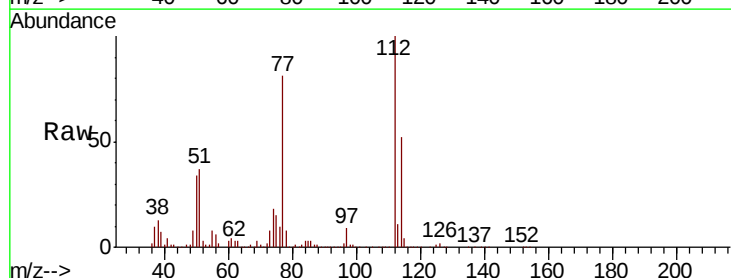
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

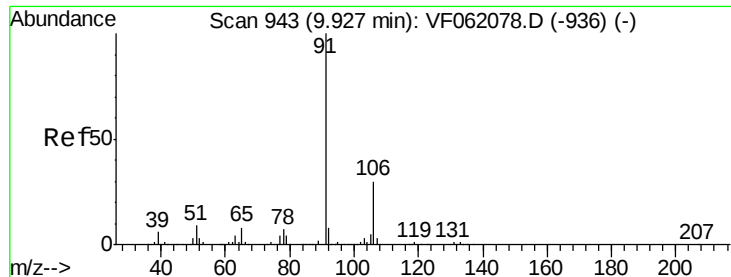
Tot Ion:117 Resp: 129551
Ion Ratio Lower Upper
117 100
82 71.3 39.2 58.8#
119 27.9 25.4 38.2



#65
Chlorobenzene
Concen: 5674.598 ug/l
RT: 9.89 min Scan# 939
Delta R.T. 0.06 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion:112 Resp:13755155
Ion Ratio Lower Upper
112 100
114 52.2 26.0 39.0#





#67

Ethyl Benzene

Concen: 26.844 ug/l

RT: 9.95 min Scan# 945

Delta R.T. 0.02 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

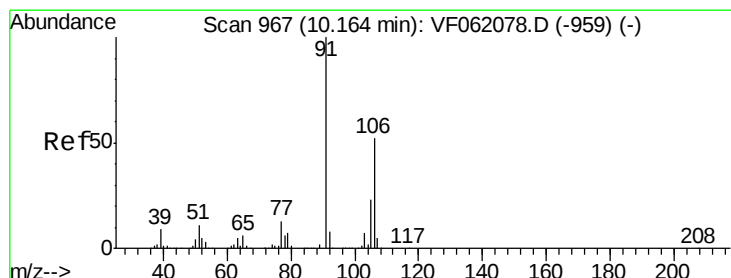
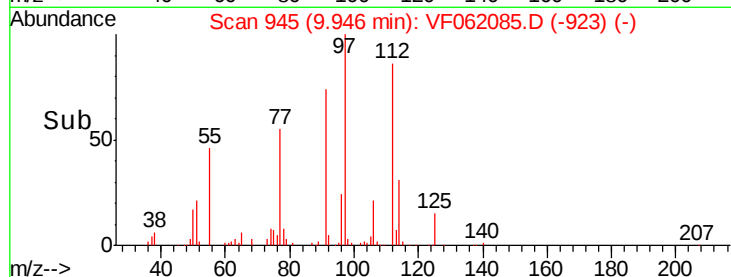
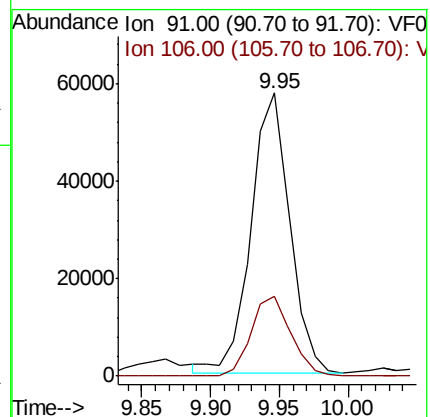
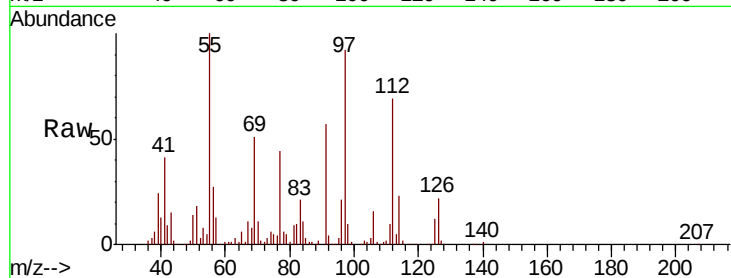
WP022SB442-190319-(12-14)

Tot Ion: 91 Resp: 113163

Ion Ratio Lower Upper

91 100

106 28.0 24.0 36.0



#68

m/p-Xylenes

Concen: 25.449 ug/l

RT: 10.17 min Scan# 968

Delta R.T. 0.01 min

Lab File: VF062085.D

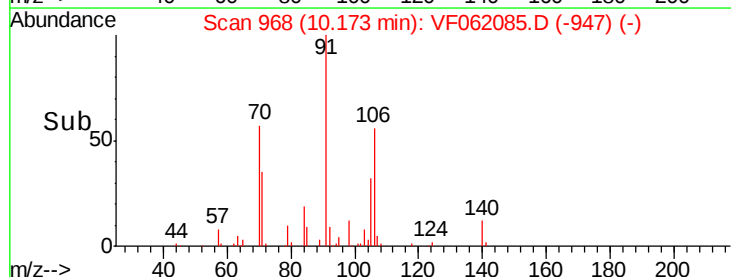
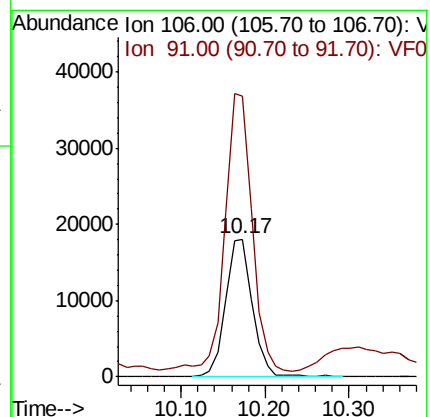
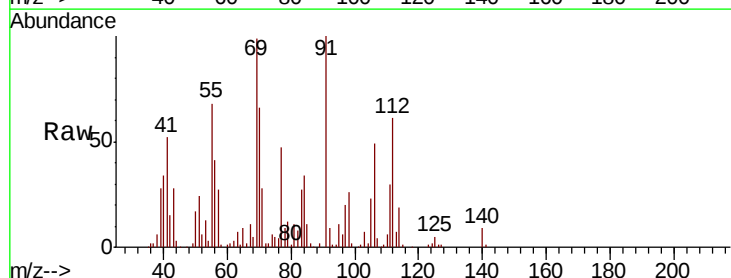
Acq: 22 Mar 2019 16:24

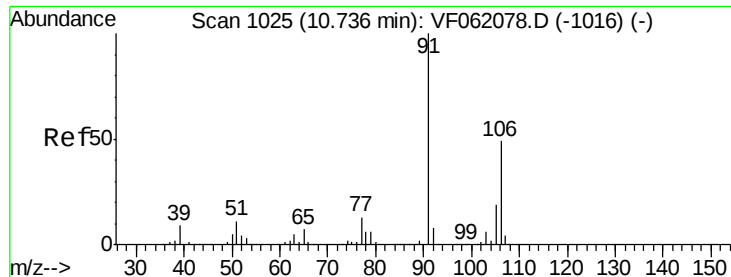
Tgt Ion:106 Resp: 40098

Ion Ratio Lower Upper

106 100

91 203.2 154.4 231.6

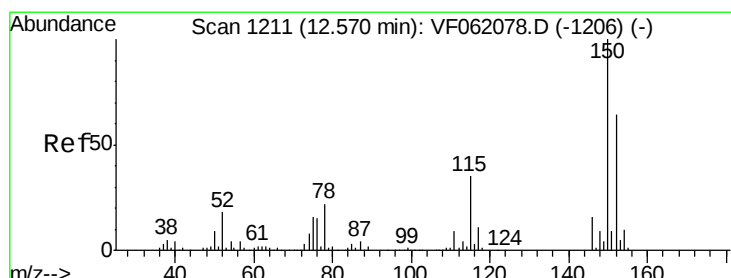
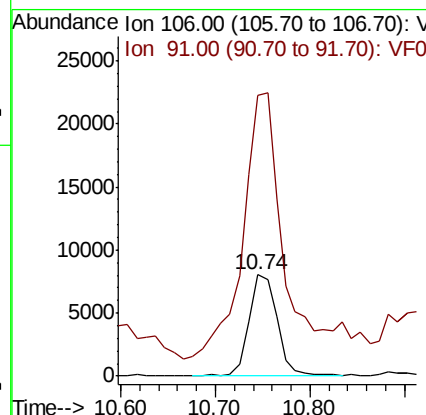
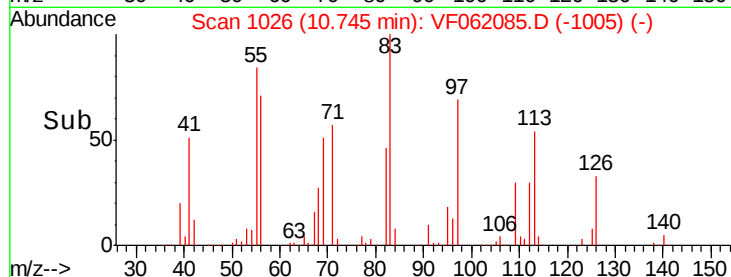
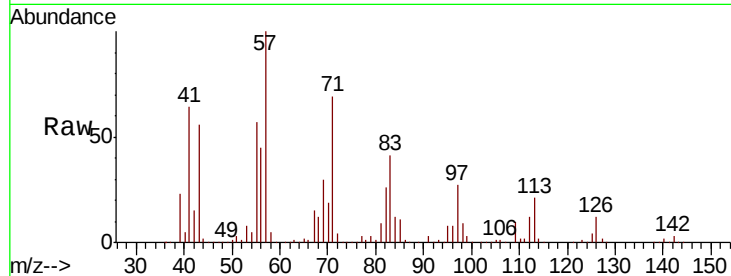




#69
o-Xylene
Concen: 10.116 ug/l
RT: 10.74 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

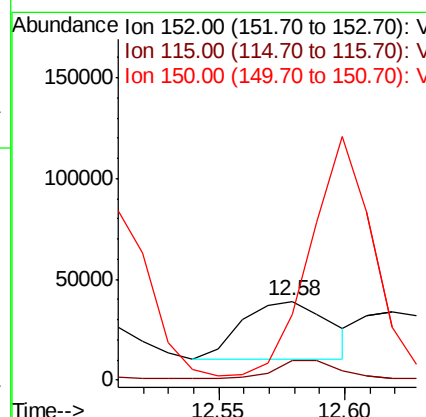
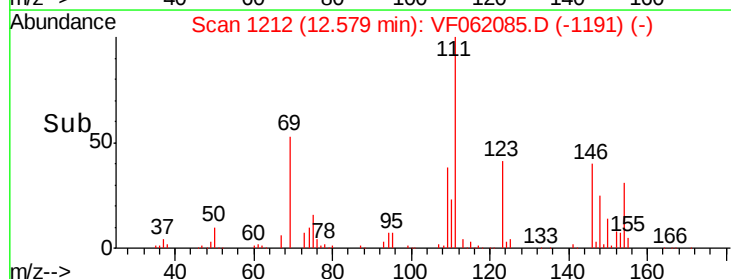
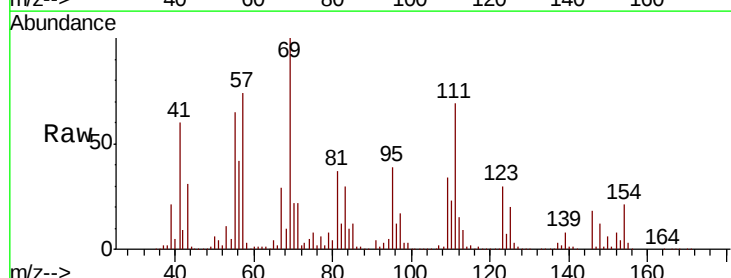
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

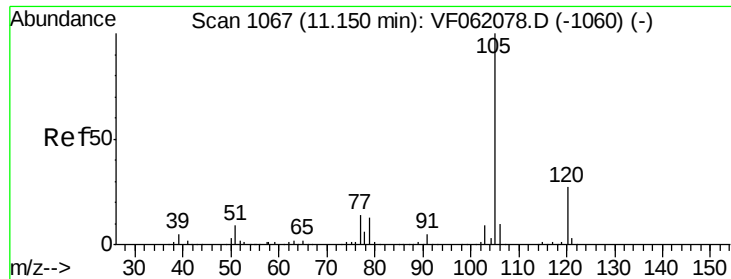
Tot Ion:106 Resp: 16694
Ion Ratio Lower Upper
106 100
91 276.8 102.6 307.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1212
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion:152 Resp: 68553
Ion Ratio Lower Upper
152 100
115 24.1 27.7 83.1#
150 83.2 0.0 313.2





#73

Isopropylbenzene

Concen: 77.438 ug/l

RT: 11.16 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

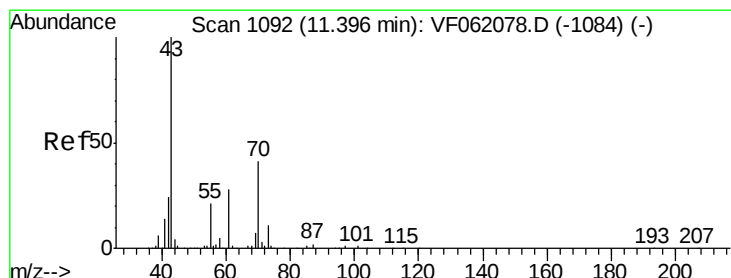
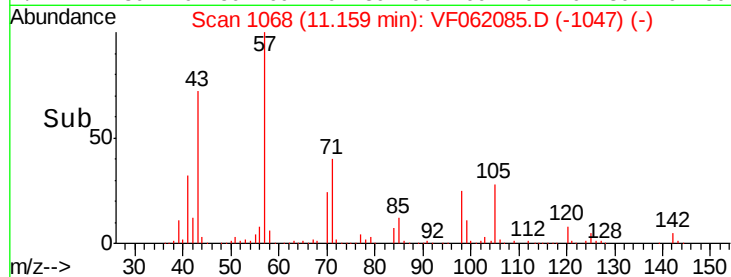
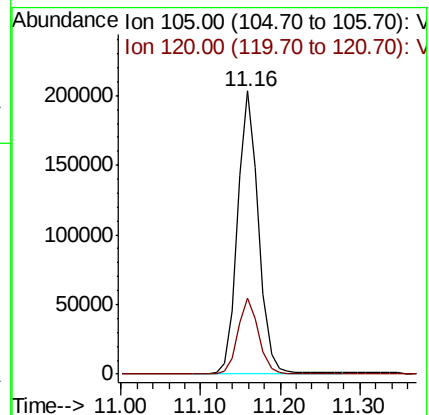
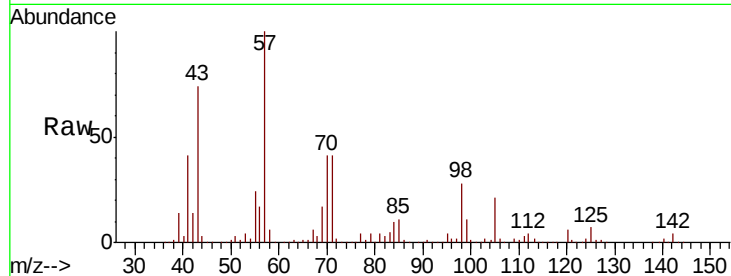
WP022SB442-190319-(12-14)

Tot Ion:105 Resp: 373548

Ion Ratio Lower Upper

105 100

120 26.8 13.8 41.3



#74

N-ethyl acetate

Concen: 1113.112 ug/l

RT: 11.45 min Scan# 1097

Delta R.T. 0.05 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Tgt Ion: 43 Resp: 1279415

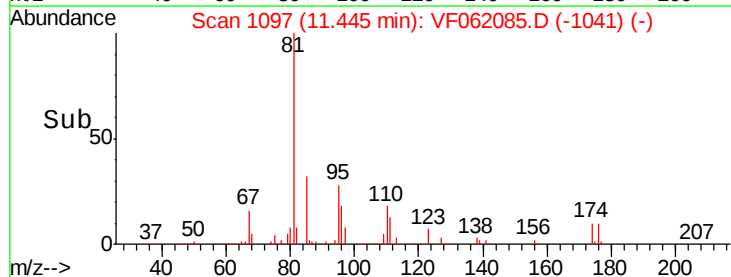
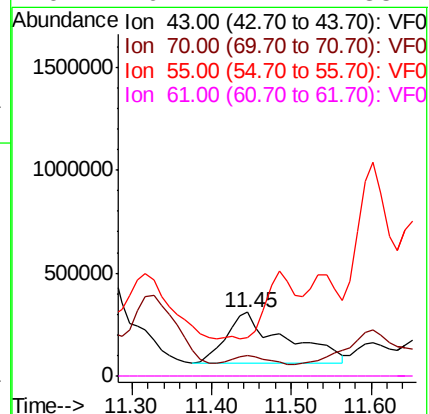
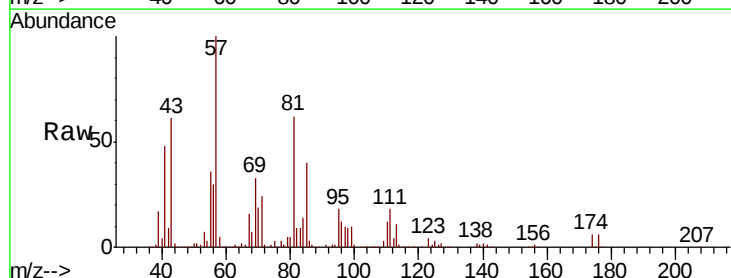
Ion Ratio Lower Upper

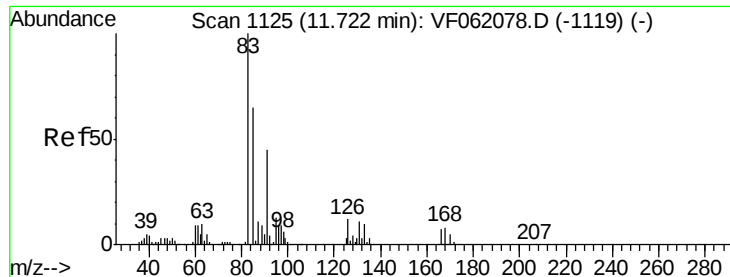
43 100

70 31.9 32.9 49.3#

55 59.6 17.1 25.7#

61 0.4 22.2 33.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 837.466 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

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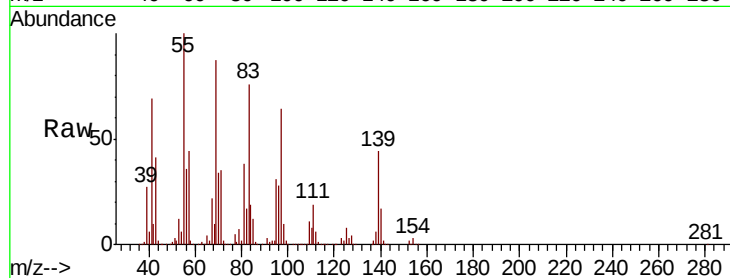
Tot Ion: 83 Resp: 693642

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

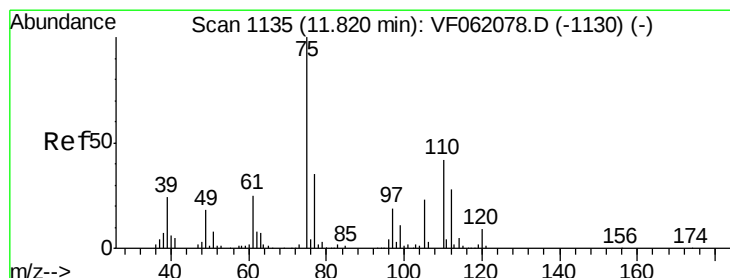
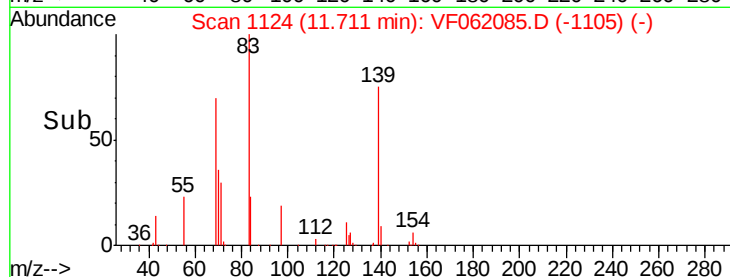
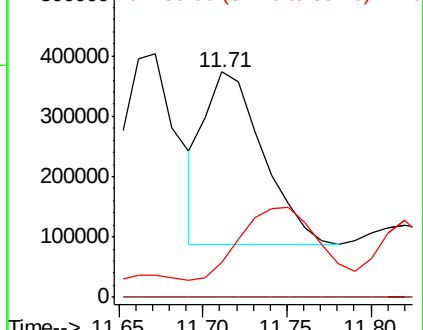
85 15.4 32.6 98.0#



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: 3.266 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF062085.D

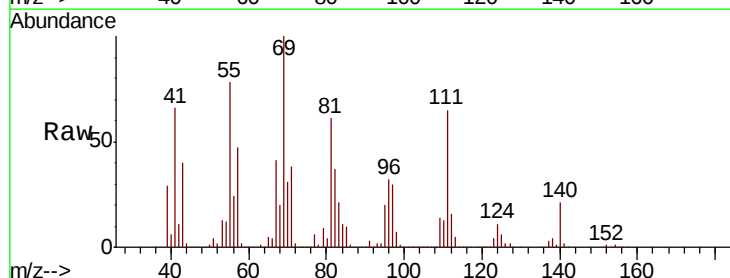
Acq: 22 Mar 2019 16:24

Tgt Ion: 75 Resp: 1904

Ion Ratio Lower Upper

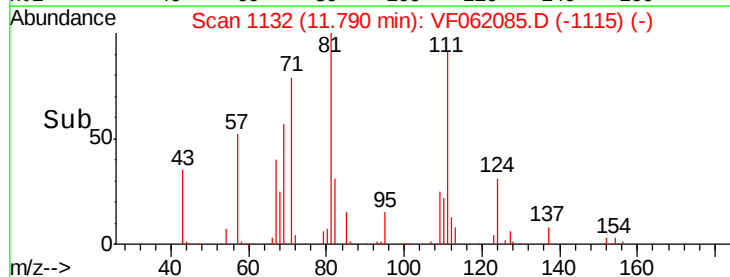
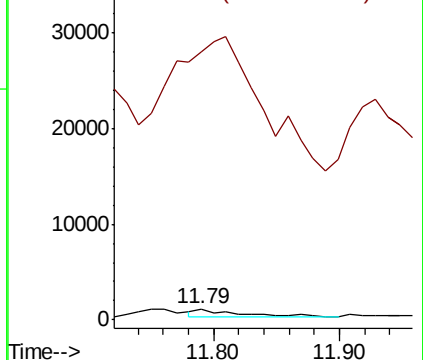
75 100

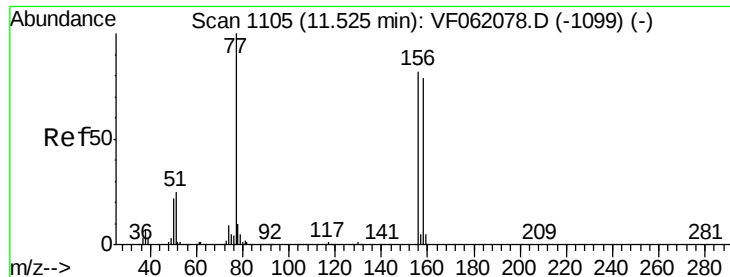
77 2378.3 17.8 53.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 17.162 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.07 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

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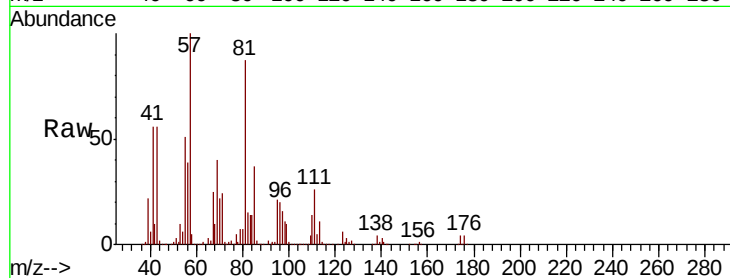
Tot Ion:156 Resp: 20226

Ion Ratio Lower Upper

156 100

77 350.0 61.3 183.9#

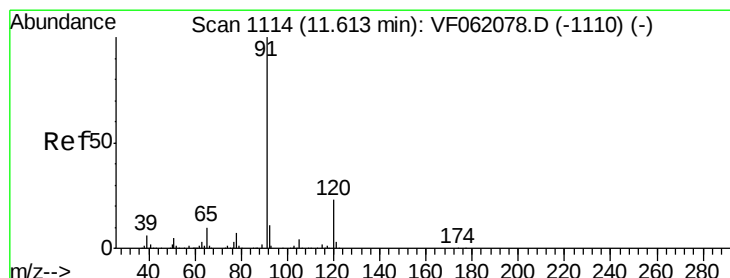
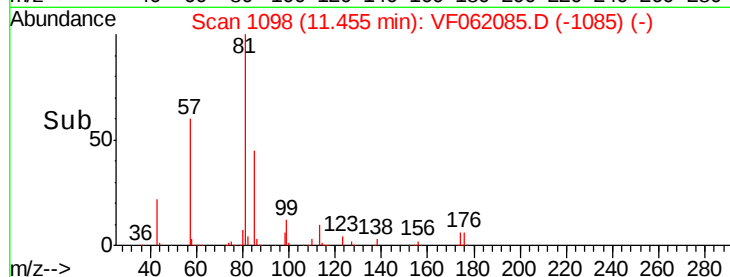
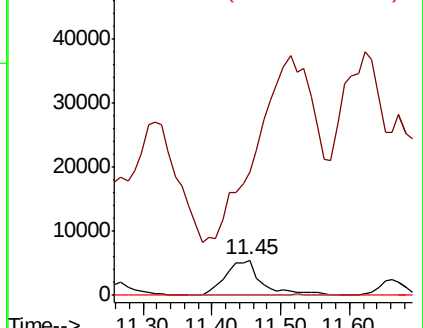
158 0.0 48.6 145.9#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 132.744 ug/l

RT: 11.63 min Scan# 1116

Delta R.T. 0.02 min

Lab File: VF062085.D

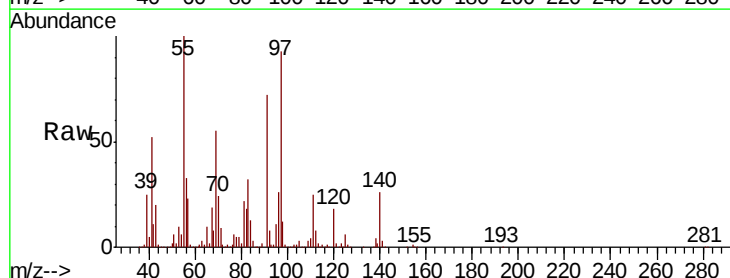
Acq: 22 Mar 2019 16:24

Tgt Ion: 91 Resp: 743545

Ion Ratio Lower Upper

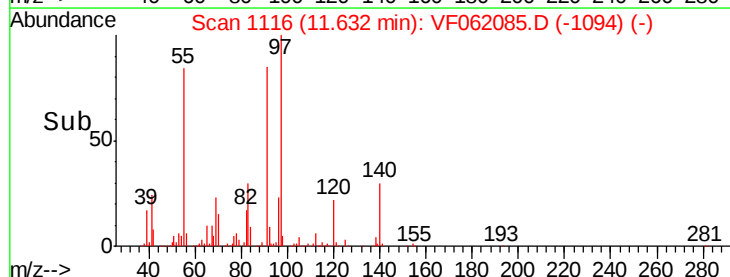
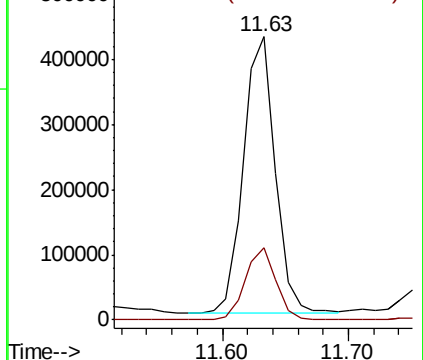
91 100

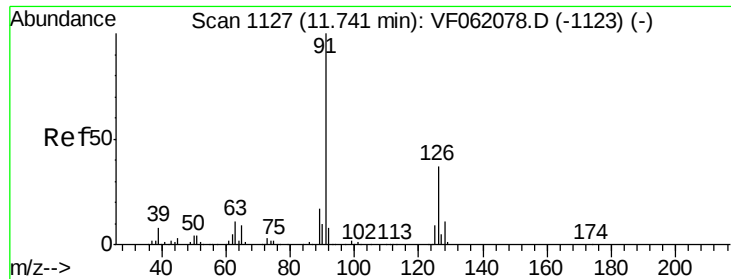
120 25.6 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 35.552 ug/l

RT: 11.75 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

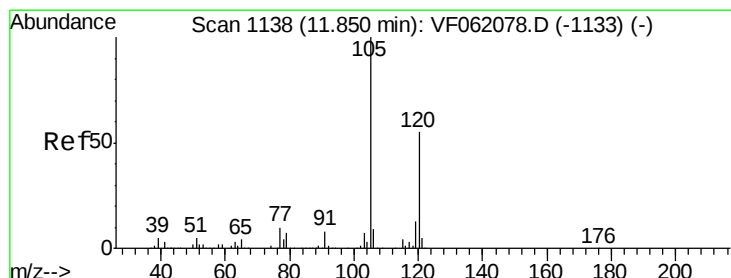
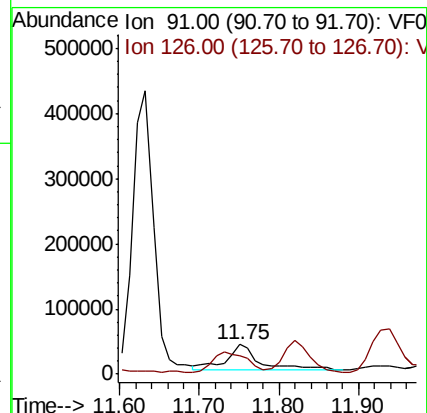
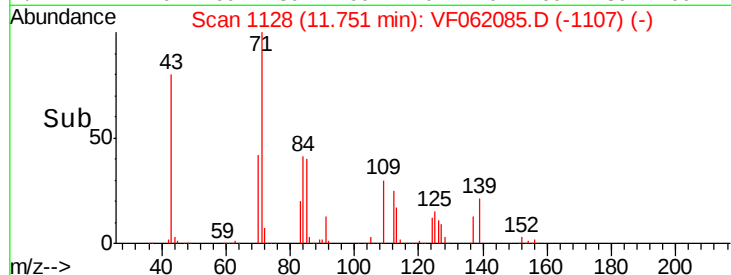
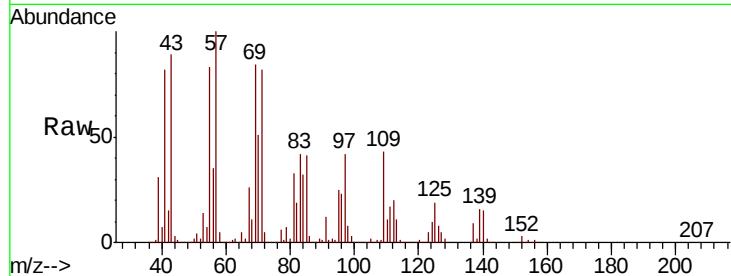
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Tot Ion: 91 Resp: 110686

Ion Ratio Lower Upper

91 100

126 62.4 18.3 54.8#



#80

1,3,5-Trimethylbenzene

Concen: 3.938 ug/l

RT: 11.75 min Scan# 1128

Delta R.T. -0.10 min

Lab File: VF062085.D

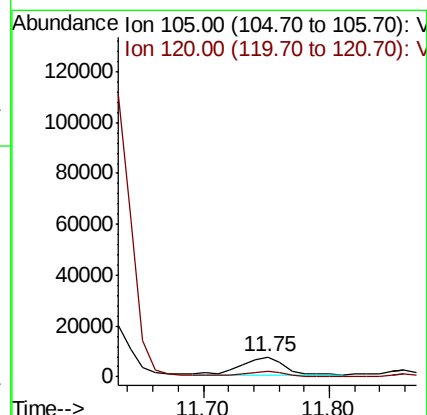
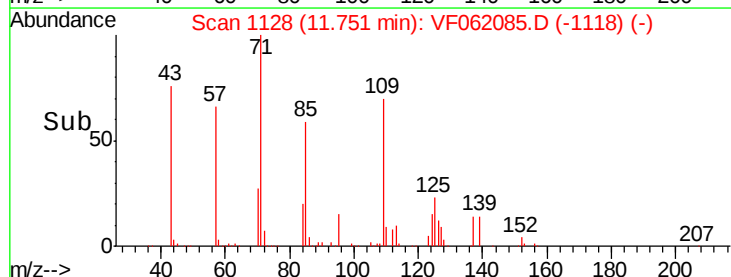
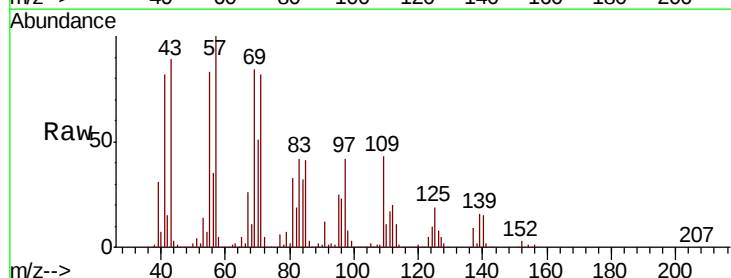
Acq: 22 Mar 2019 16:24

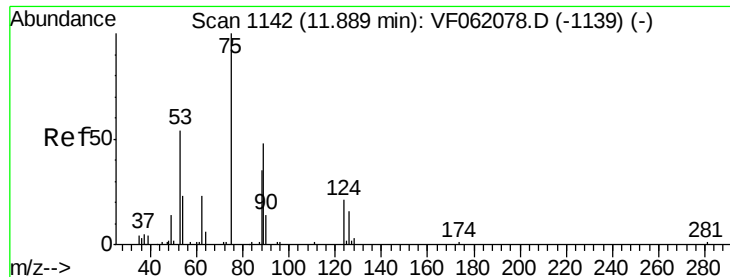
Tgt Ion: 105 Resp: 15626

Ion Ratio Lower Upper

105 100

120 27.3 27.8 83.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 1.267 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

WP022SB442-190319-(12-14)

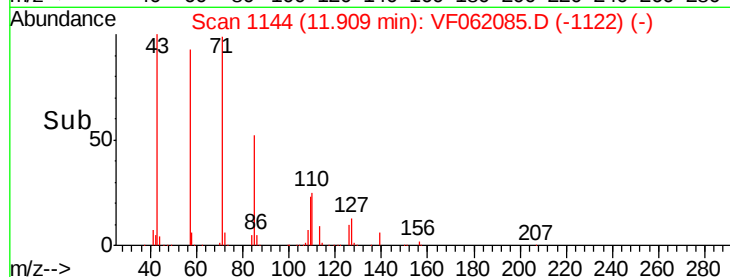
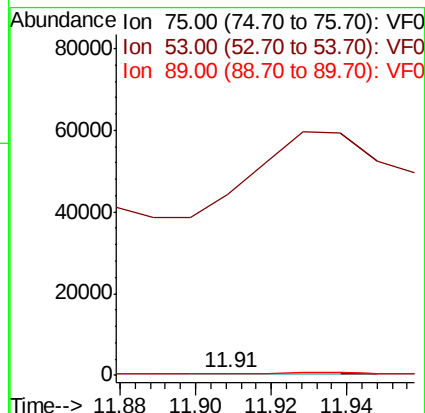
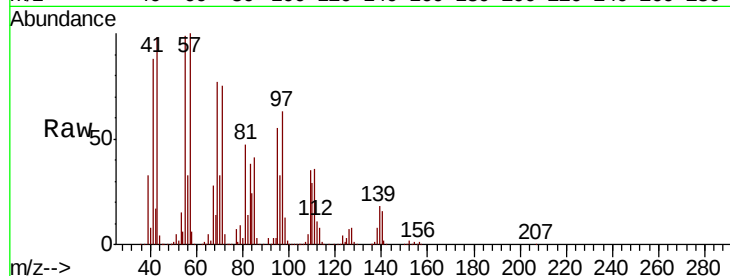
Tot Ion: 75 Resp: 301

Ion Ratio Lower Upper

75 100

53 8329.1 49.4 74.0#

89 63.8 40.6 60.8#



#82

4-Chlorotoluene

Concen: 28.729 ug/l

RT: 12.06 min Scan# 1159

Delta R.T. 0.14 min

Lab File: VF062085.D

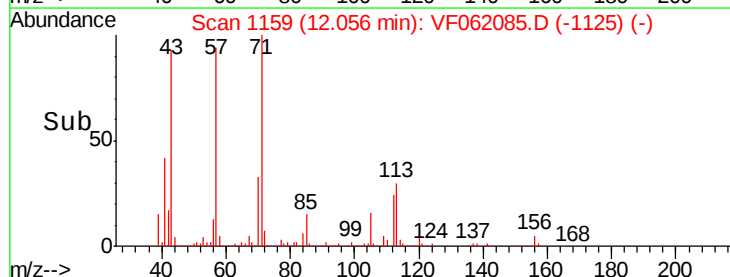
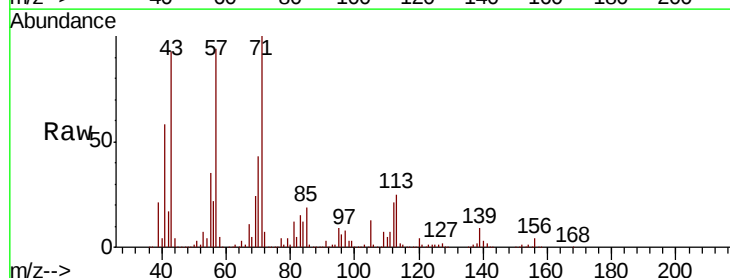
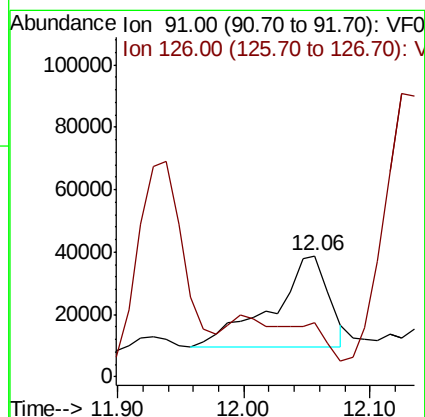
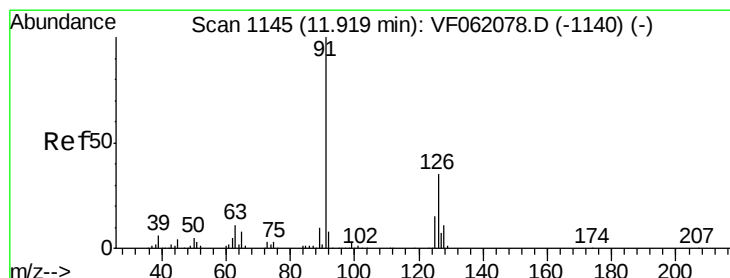
Acq: 22 Mar 2019 16:24

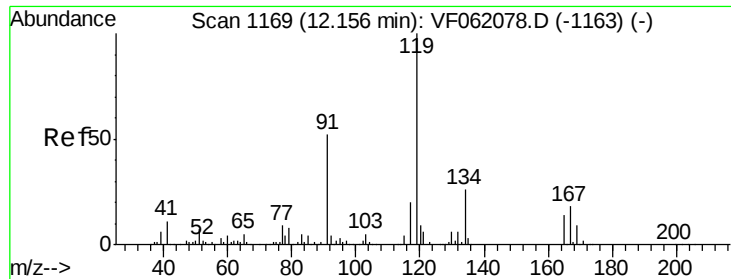
Tgt Ion: 91 Resp: 91708

Ion Ratio Lower Upper

91 100

126 44.3 17.2 51.6

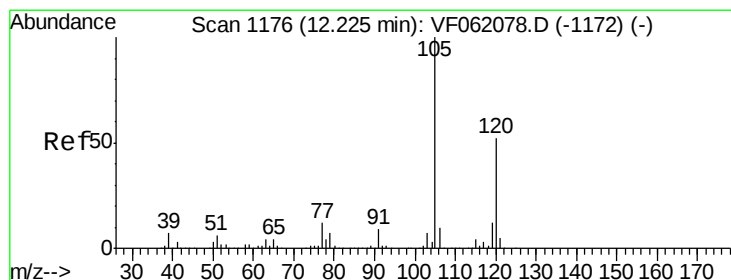
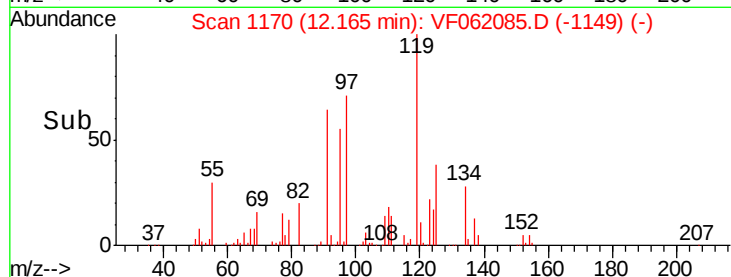
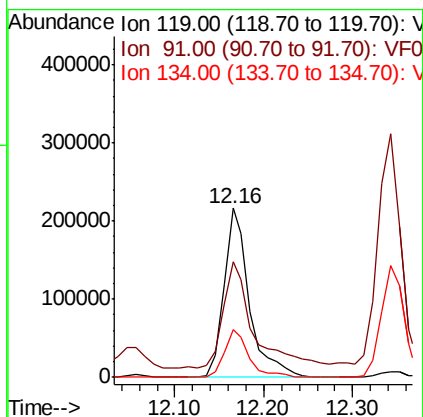
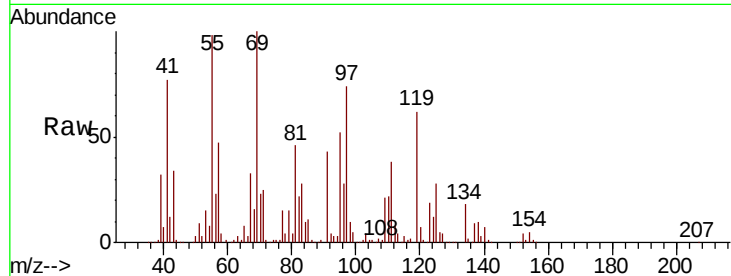




#83
tert-Butylbenzene
Concen: 104.250 ug/l
RT: 12.16 min Scan# 1170
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

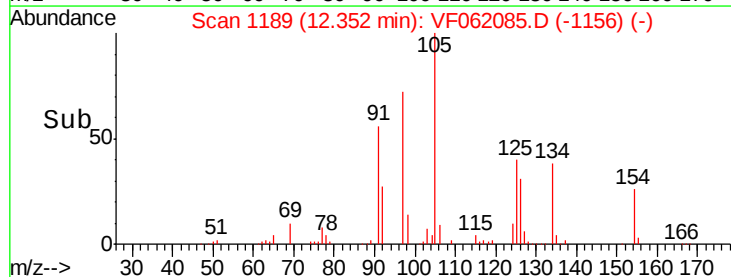
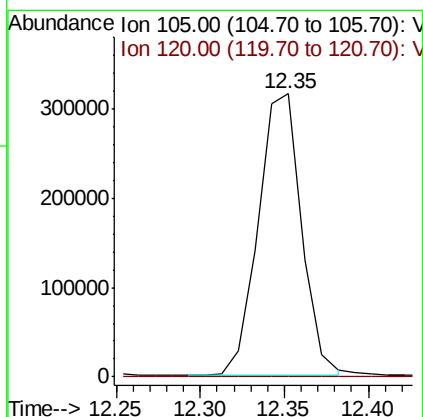
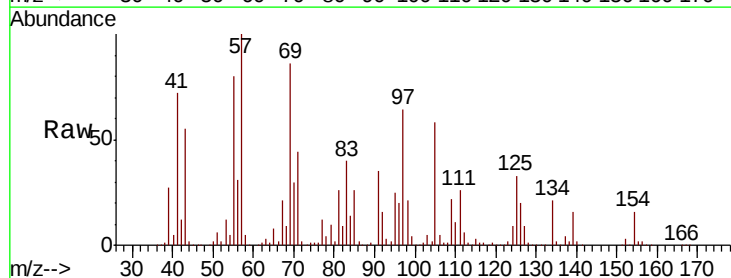
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

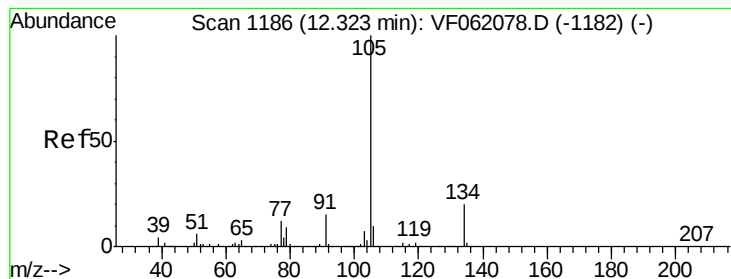
Tot Ion:119 Resp: 433008
Ion Ratio Lower Upper
119 100
91 68.9 26.1 78.2
134 28.2 12.8 38.4



#84
1,2,4-Trimethylbenzene
Concen: 143.533 ug/l
RT: 12.35 min Scan# 1189
Delta R.T. 0.13 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion:105 Resp: 558298
Ion Ratio Lower Upper
105 100
120 0.2 26.1 78.2#





#85

sec-Butylbenzene

Concen: 104.366 ug/l

RT: 12.35 min Scan# 1189

Delta R.T. 0.03 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

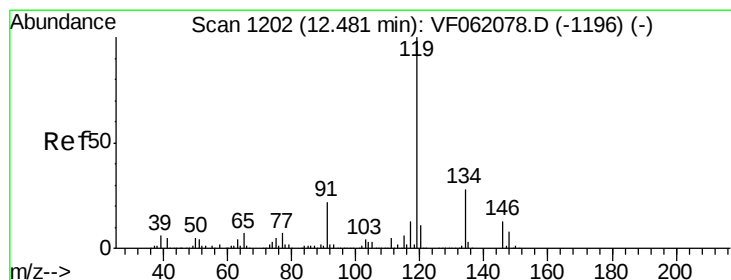
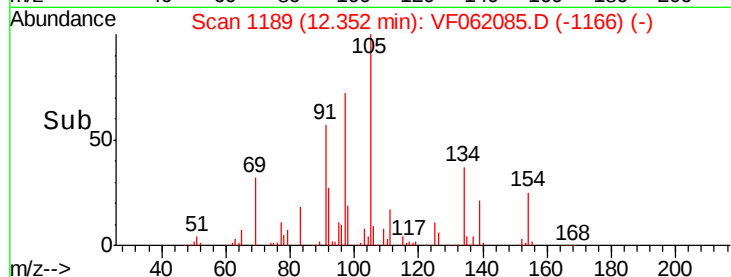
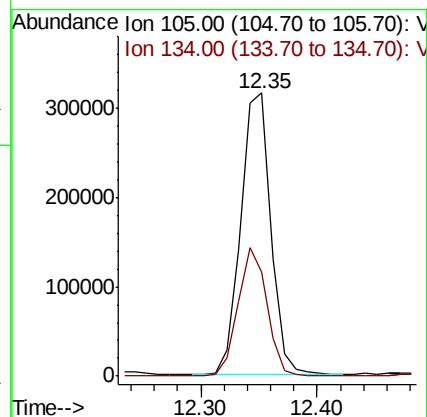
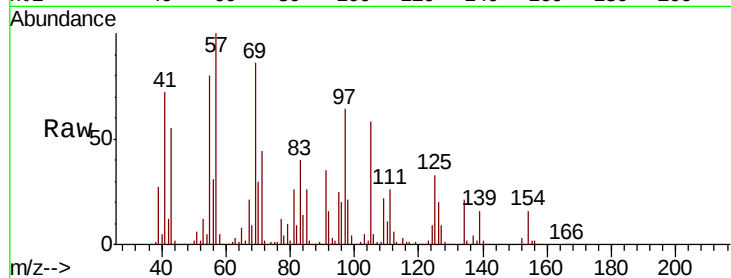
WP022SB442-190319-(12-14)

Tot Ion:105 Resp: 560789

Ion Ratio Lower Upper

105 100

134 37.0 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 4.405 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

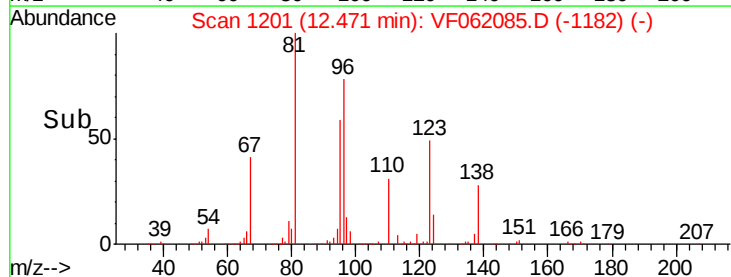
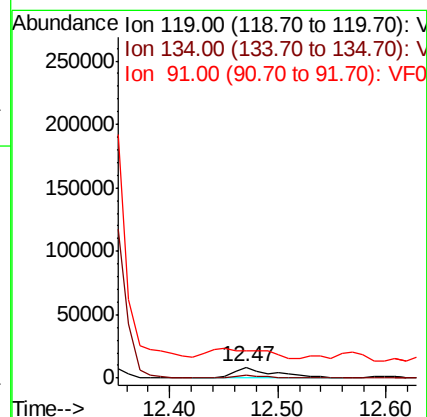
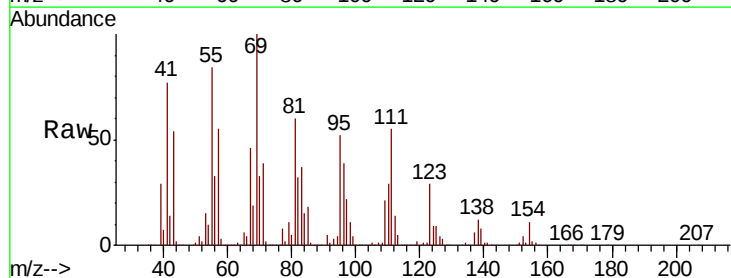
Tgt Ion:119 Resp: 20508

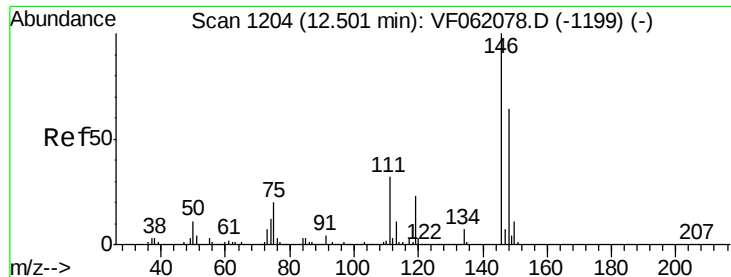
Ion Ratio Lower Upper

119 100

134 26.2 14.0 42.0

91 238.9 10.8 32.4#

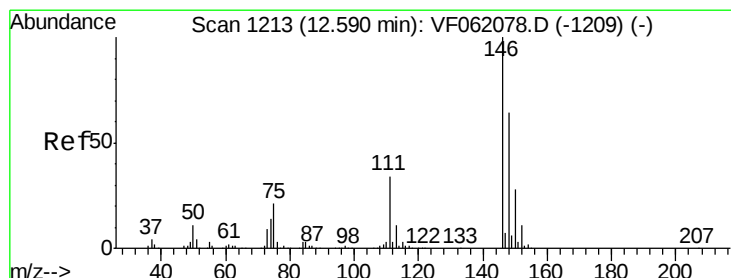
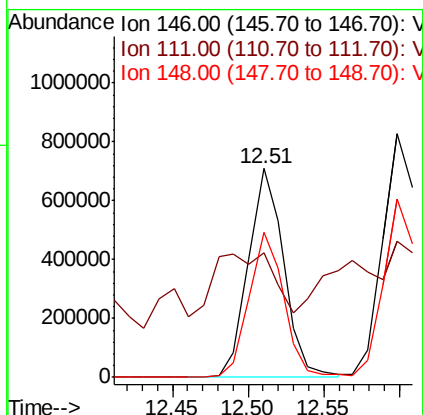
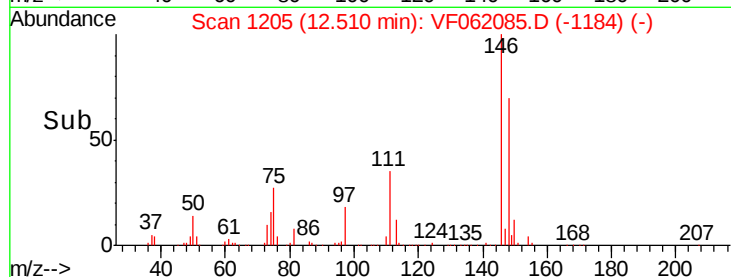
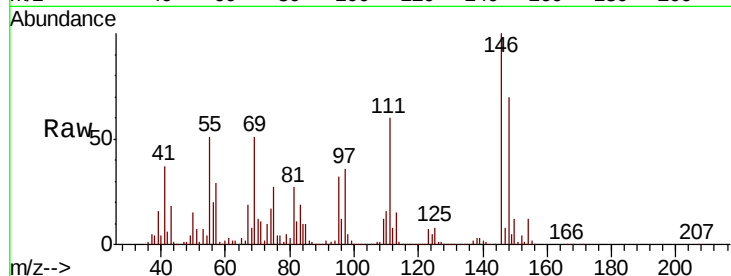




#87
 1,3-Dichlorobenzene
 Concen: 531.884 ug/l
 RT: 12.51 min Scan# 1205
 Delta R.T. 0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

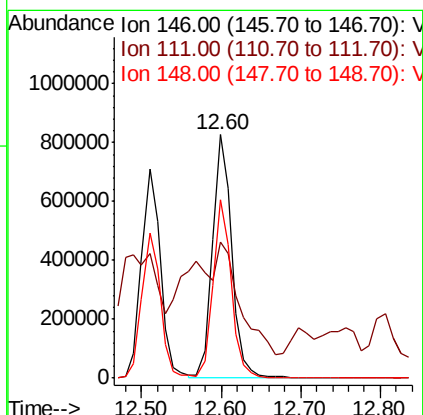
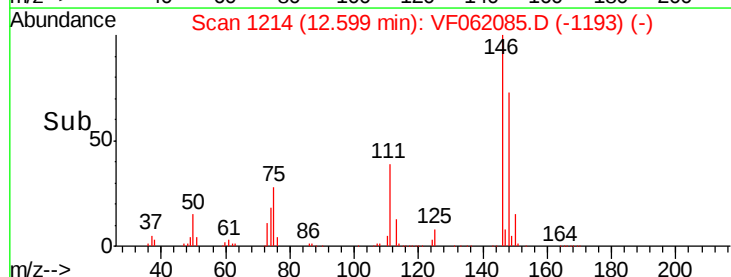
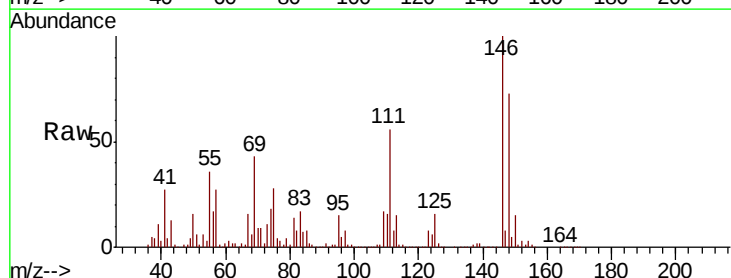
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB442-190319-(12-14)

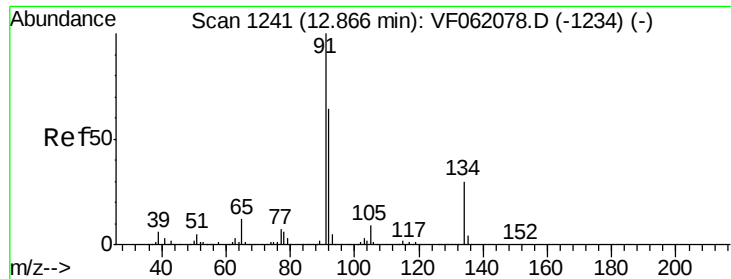
Tot Ion:146 Resp: 1164601
 Ion Ratio Lower Upper
 146 100
 111 59.7 16.1 48.3#
 148 69.7 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 657.641 ug/l
 RT: 12.60 min Scan# 1214
 Delta R.T. 0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

Tgt Ion:146 Resp: 1405104
 Ion Ratio Lower Upper
 146 100
 111 56.1 16.9 50.6#
 148 73.3 31.9 95.7

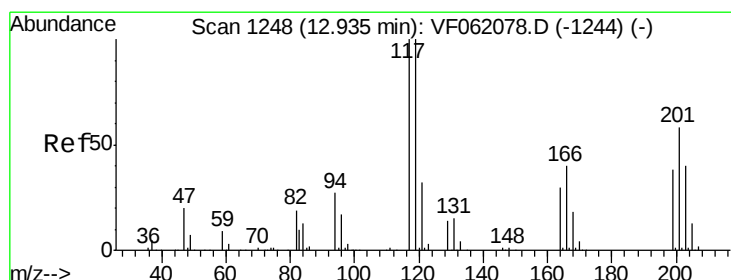
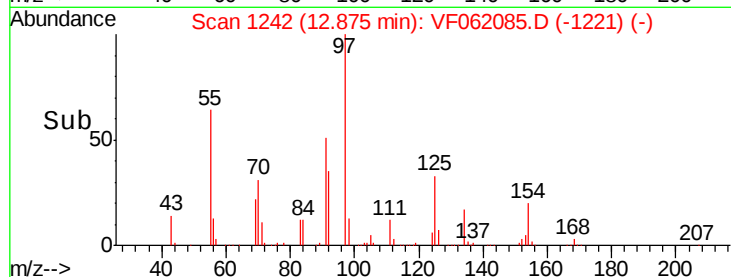
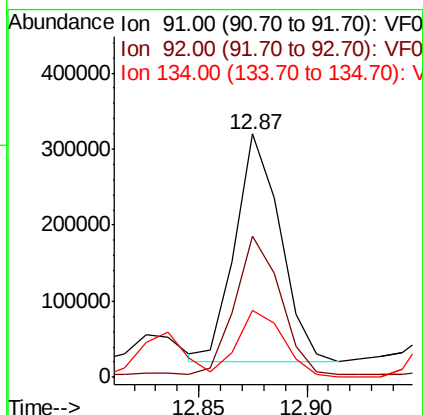
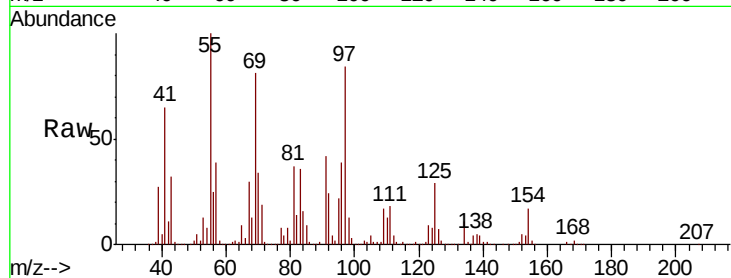




#89
n-Butylbenzene
Concen: 97.017 ug/l
RT: 12.87 min Scan# 1242
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

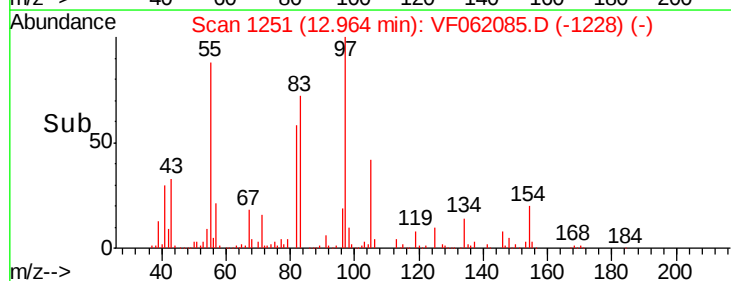
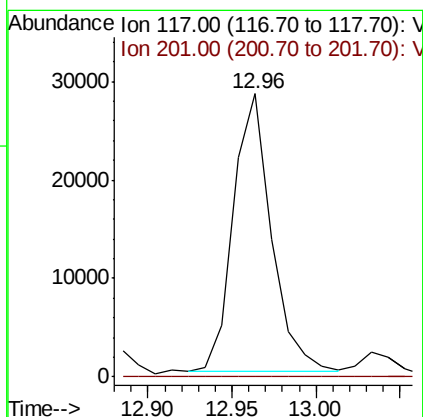
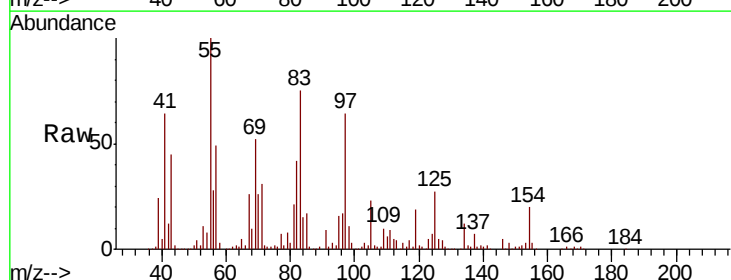
Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

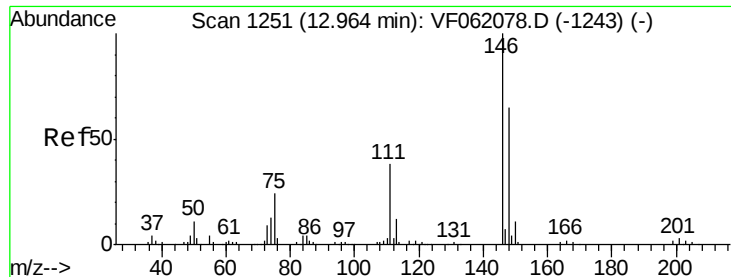
Tot Ion: 91 Resp: 430891
Ion Ratio Lower Upper
91 100
92 58.2 31.9 95.5
134 27.7 14.9 44.9



#90
Hexachloroethane
Concen: 39.809 ug/l
RT: 12.96 min Scan# 1251
Delta R.T. 0.03 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 117 Resp: 44128
Ion Ratio Lower Upper
117 100
201 0.0 28.7 86.1#





#91

1,2-Dichlorobenzene

Concen: 38.373 ug/l

RT: 12.97 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Instrument :

MSVOA_F

ClientSampleId :

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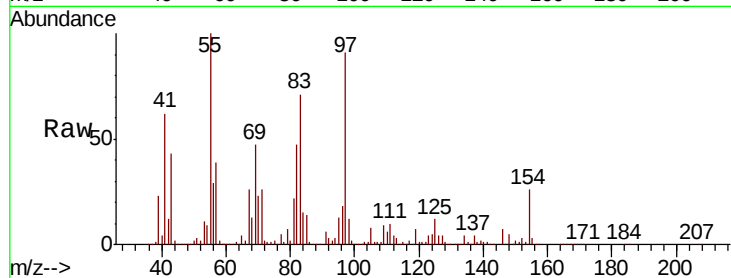
Tot Ion:146 Resp: 78894

Ion Ratio Lower Upper

146 100

111 157.5 19.1 57.3#

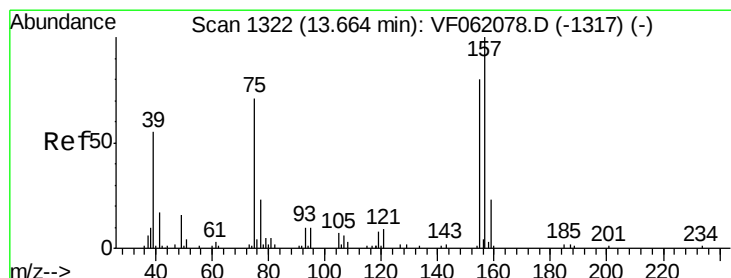
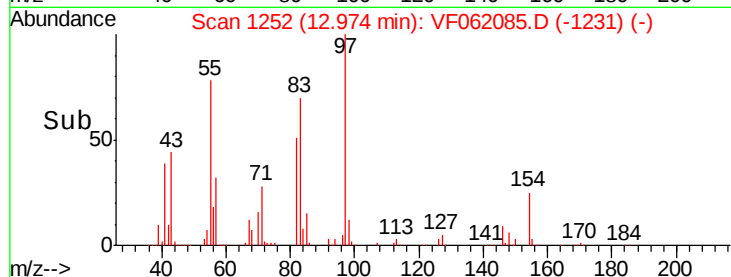
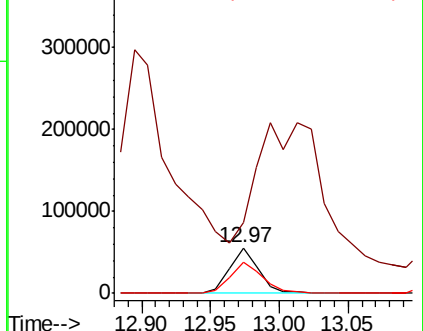
148 68.5 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.332 ug/l

RT: 13.69 min Scan# 1325

Delta R.T. 0.03 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

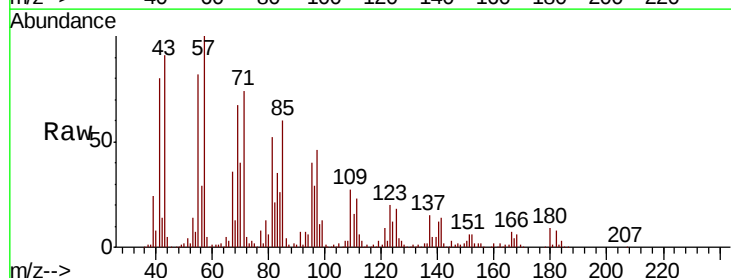
Tgt Ion: 75 Resp: 6442

Ion Ratio Lower Upper

75 100

155 114.0 56.1 168.4

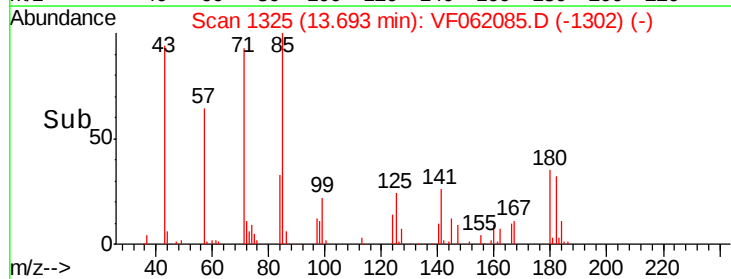
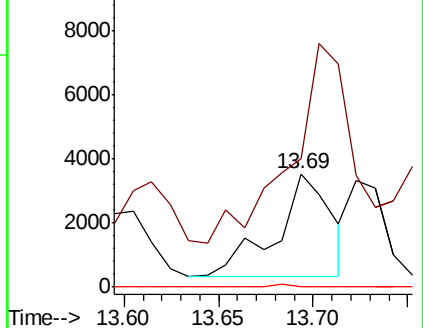
157 0.0 70.4 211.2#

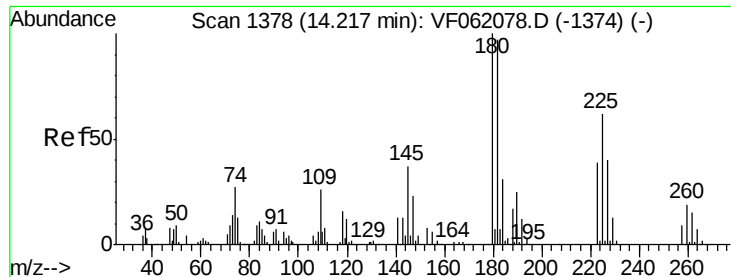


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

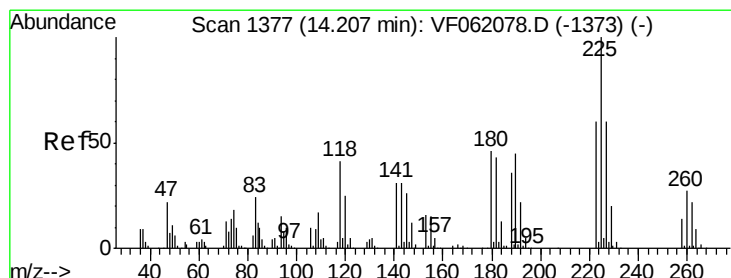
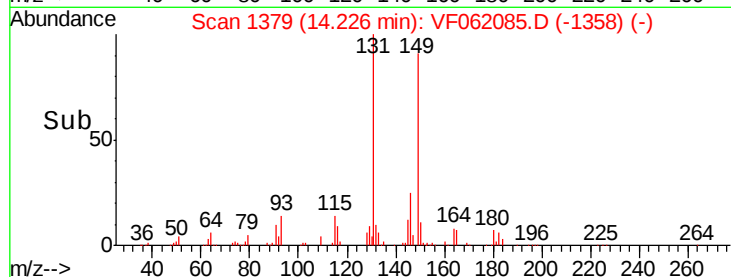
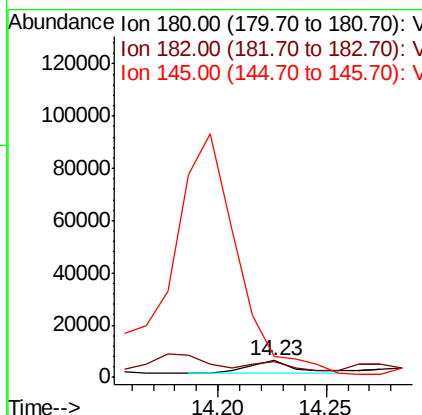
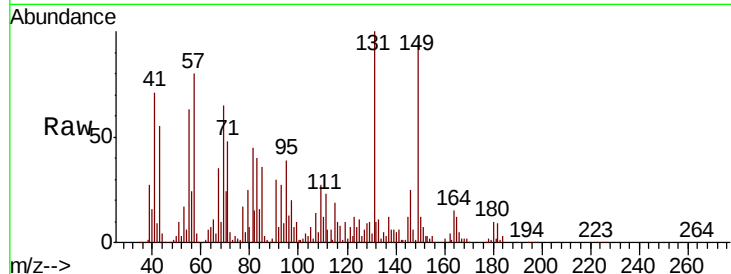




#93
 1,2,4-Trichlorobenzene
 Concen: 5.526 ug/l
 RT: 14.23 min Scan# 1379
 Delta R.T. 0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

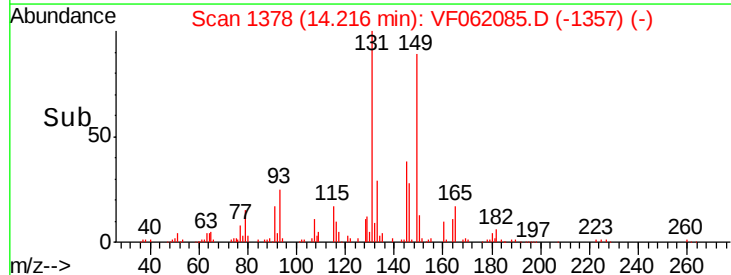
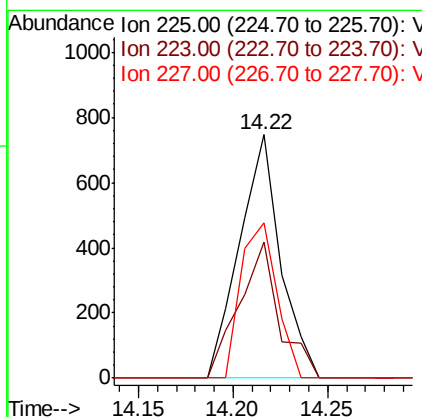
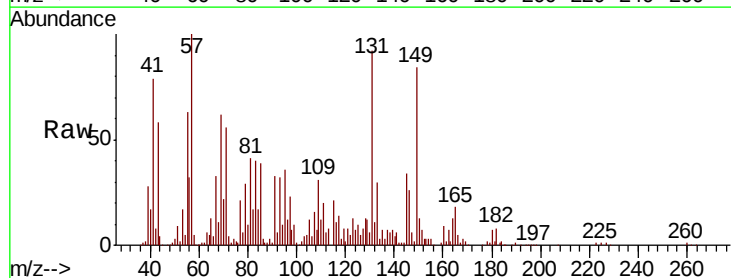
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB442-190319-(12-14)

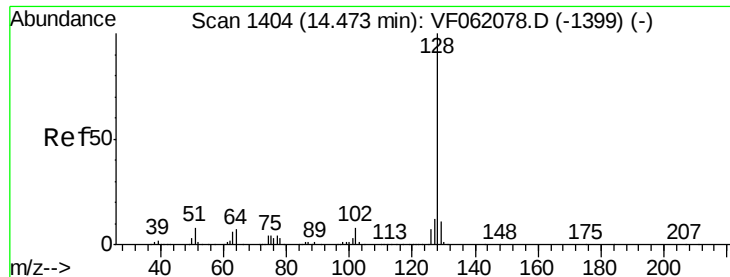
Tot Ion:180 Resp: 7919
 Ion Ratio Lower Upper
 180 100
 182 92.6 48.7 146.1
 145 123.2 18.3 54.8#



#94
 Hexachlorobutadiene
 Concen: 1.179 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

Tgt Ion:225 Resp: 1123
 Ion Ratio Lower Upper
 225 100
 223 56.1 30.0 90.0
 227 63.6 30.2 90.6

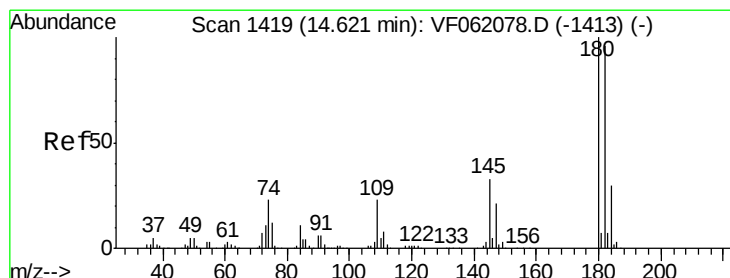
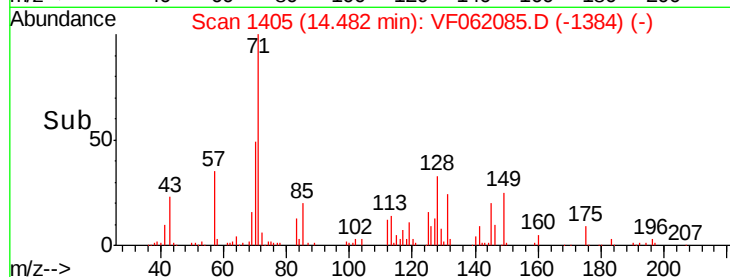
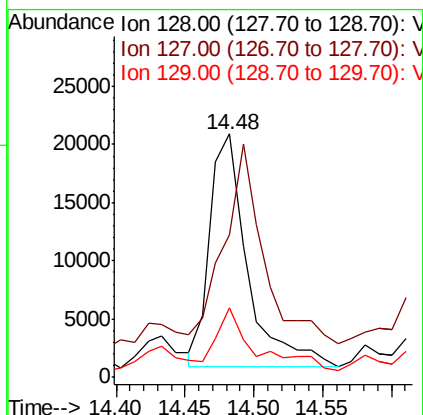
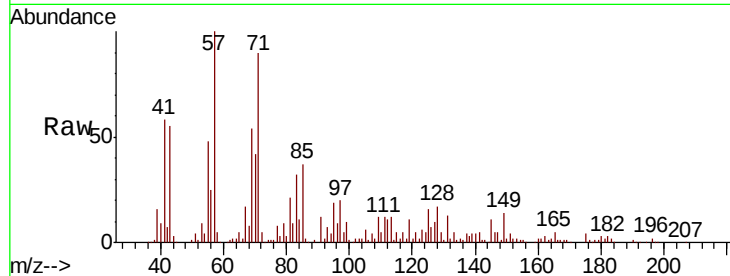




#95
Naphthalene
Concen: 15.242 ug/l
RT: 14.48 min Scan# 1405
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Instrument :
MSVOA_F
ClientSampleId :
WP022SB442-190319-(12-14)

Tot Ion:128 Resp: 38275
Ion Ratio Lower Upper
128 100
127 58.5 9.5 14.3#
129 28.3 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 8.721 ug/l
RT: 14.66 min Scan# 1423
Delta R.T. 0.04 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion:180 Resp: 11698
Ion Ratio Lower Upper
180 100
182 32.9 47.9 143.7#
145 51.4 16.6 49.7#

