

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)

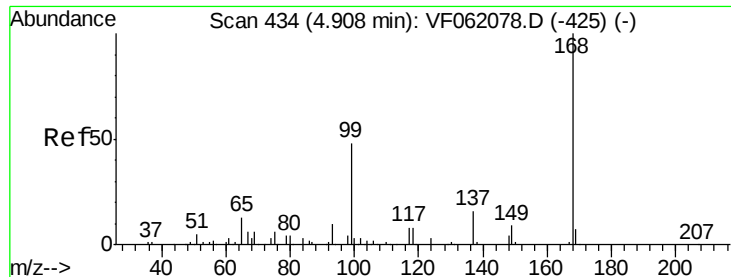
Manual Integrations
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 3/27/2019 11:57:17 AM

Quant Time: Mar 23 06:40:01 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						
33) 1,2-Dichloroethane-d4	4.88	65	92440	69.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	138.88%	
35) Dibromofluoromethane	4.15	113	127237	61.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	123.66%	
50) Toluene-d8	7.59	98	326494	53.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.30%	
62) 4-Bromofluorobenzene	11.45	95	183270m	77.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	154.58%	
Target Compounds						
					Qvalue	
16) Acetone	2.25	43	57908	206.689	ug/l	99
17) Carbon Disulfide	1.83	76	6677	1.269	ug/l #	89
20) Methylene Chloride	2.27	84	17651m	7.765	ug/l	
25) 2-Butanone	4.37	43	36871	63.039	ug/l #	88
39) Methylcyclohexane	5.49	83	581841m	173.024	ug/l	
40) Benzene	4.67	78	802012	103.253	ug/l	99
52) Toluene	7.66	92	45438	10.100	ug/l	88
56) Ethyl methacrylate	8.69	69	542994	356.284	ug/l #	85
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
78) n-propylbenzene	11.63	91	743545	132.744	ug/l	94
83) tert-Butylbenzene	12.16	119	433008	104.250	ug/l	82
85) sec-Butylbenzene	12.35	105	560789	104.366	ug/l #	64
87) 1,3-Dichlorobenzene	12.51	146	1164601	531.884	ug/l #	78
88) 1,4-Dichlorobenzene	12.60	146	1405104	657.641	ug/l #	79
89) n-Butylbenzene	12.87	91	430891	97.017	ug/l	94
91) 1,2-Dichlorobenzene	12.97	146	78894	38.373	ug/l #	25
94) Hexachlorobutadiene	14.22	225	1123	1.179	ug/l	95
95) Naphthalene	14.48	128	38275	15.242	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

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:168 Resp: 178969

Ion Ratio Lower Upper

168 100

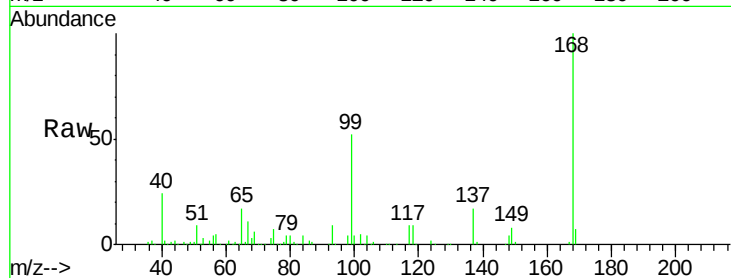
99 51.9 38.2 57.4

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.91

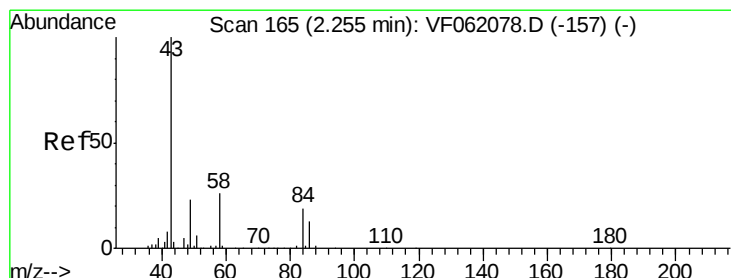
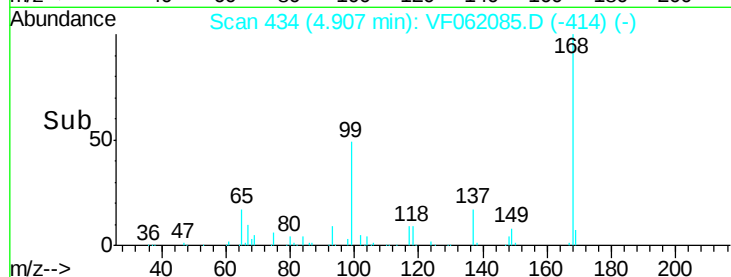
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 206.689 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF062085.D

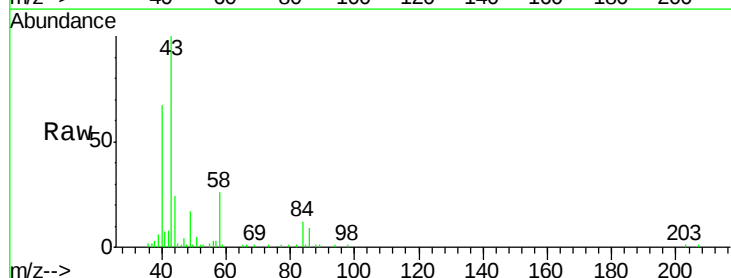
Acq: 22 Mar 2019 16:24

Tgt Ion: 43 Resp: 57908

Ion Ratio Lower Upper

43 100

58 25.7 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.25

20000

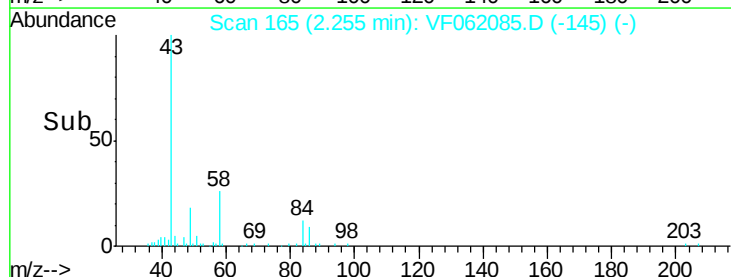
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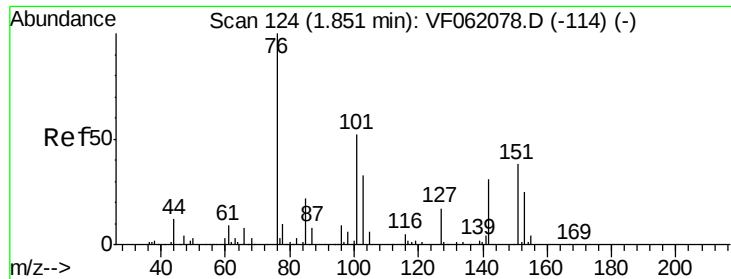
10000

5000

0

Time-->





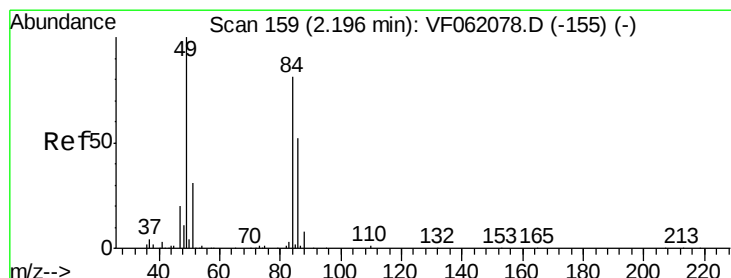
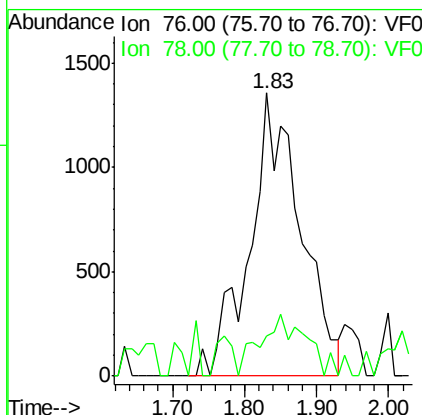
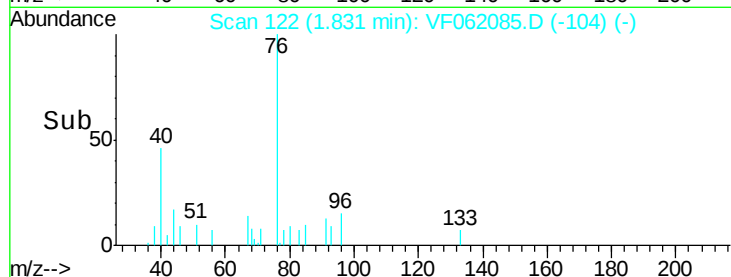
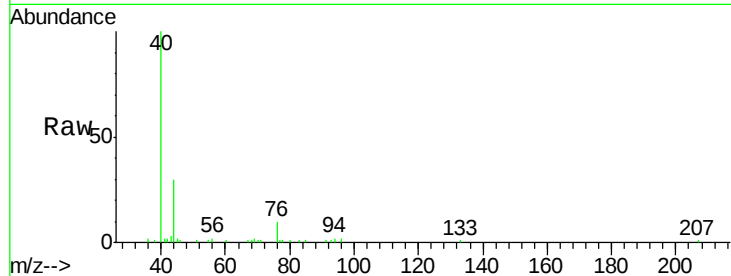
#17
Carbon Disulfide
Concen: 1.269 ug/l
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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

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

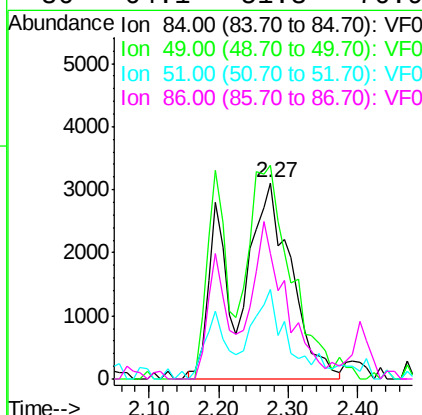
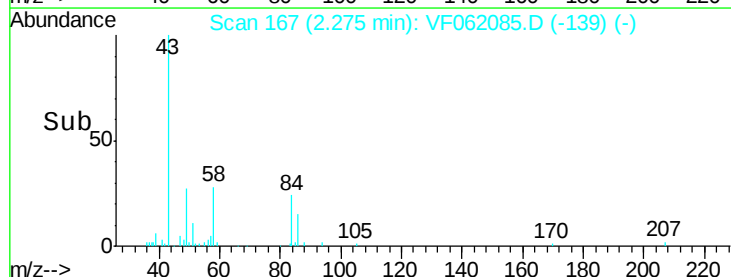
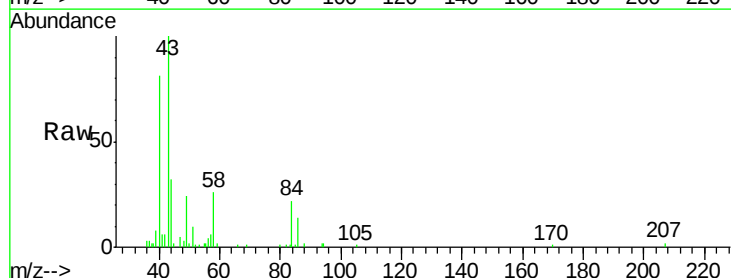
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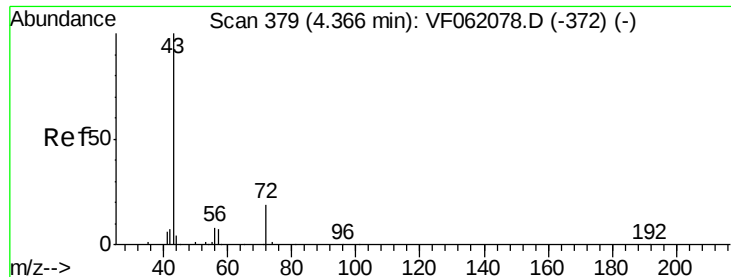
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#20
Methylene Chloride
Concen: 7.765 ug/l m
RT: 2.27 min Scan# 167
Delta R.T. 0.08 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 84 Resp: 17651
Ion Ratio Lower Upper
84 100
49 109.0 100.4 150.6
51 45.5 31.0 46.6
86 64.1 51.3 76.9





#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

Instrument :

MSVOA_F

ClientSampleId :

WP022SB442-190319-(12-14)

Tot Ion: 43 Resp: 36871

Ion Ratio Lower Upper

43 100

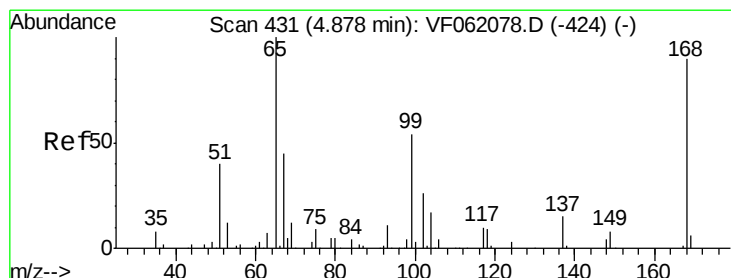
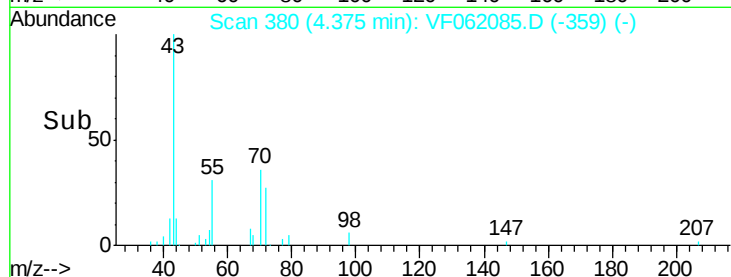
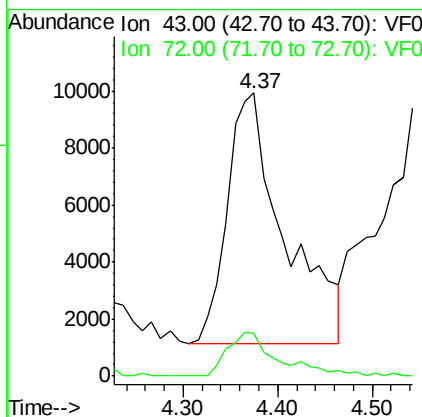
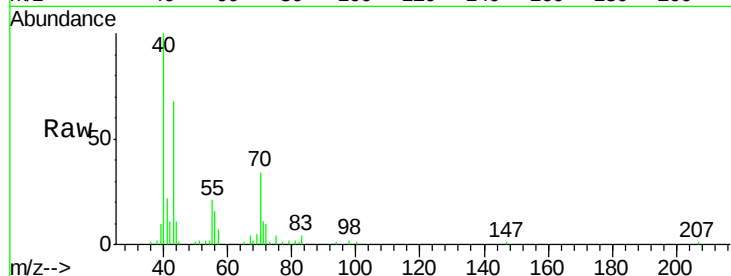
72 15.3 16.7 25.1#

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#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

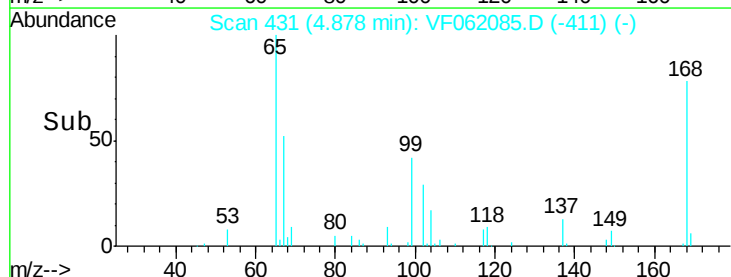
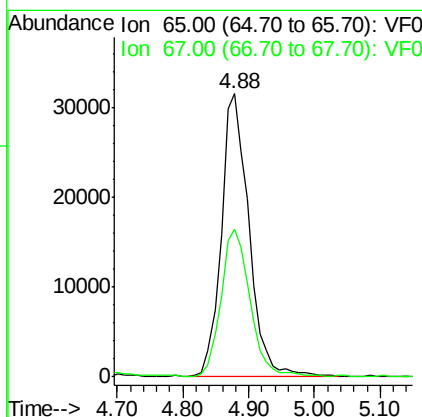
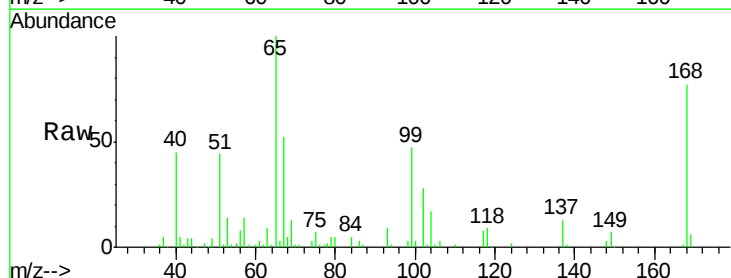
Acq: 22 Mar 2019 16:24

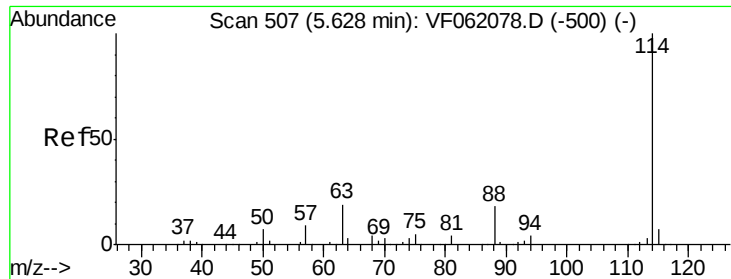
Tgt Ion: 65 Resp: 92440

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2





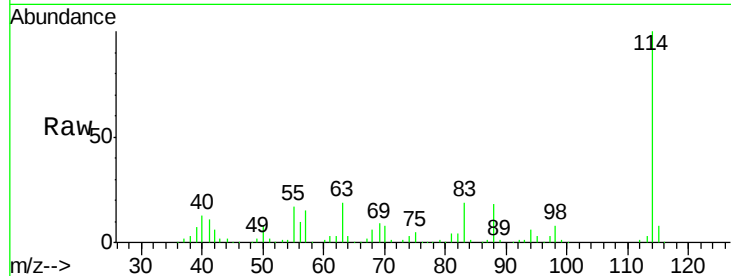
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

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

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	19.1	0.0	37.8
88	17.8	0.0	36.4

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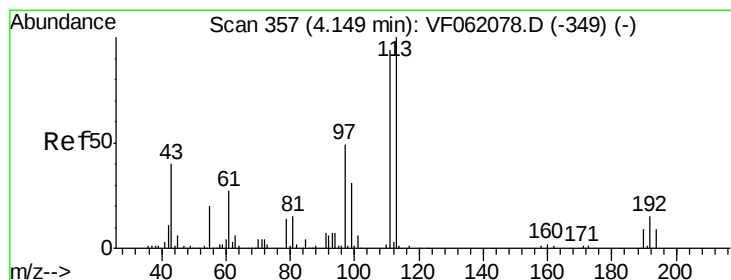
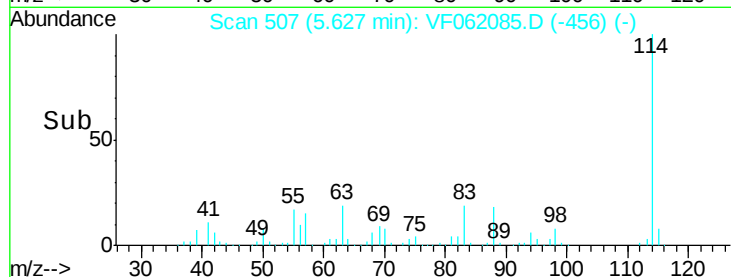
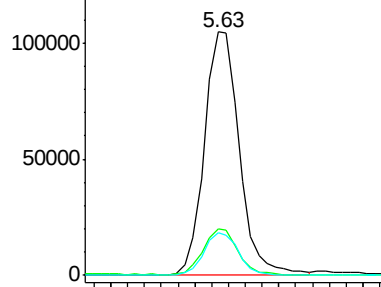
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Abundance Ion 114.00 (113.70 to 114.70): V

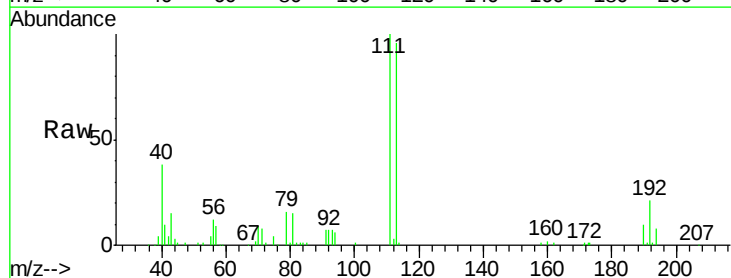
Ion 63.00 (62.70 to 63.70): VF0

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

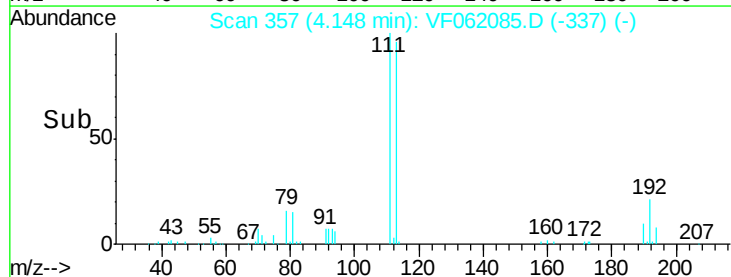
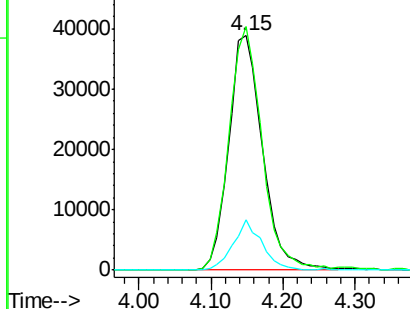
Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	103.8	75.4	113.0
192	22.2	12.3	18.5#

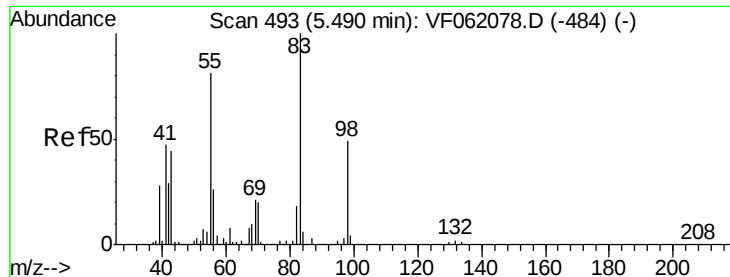


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





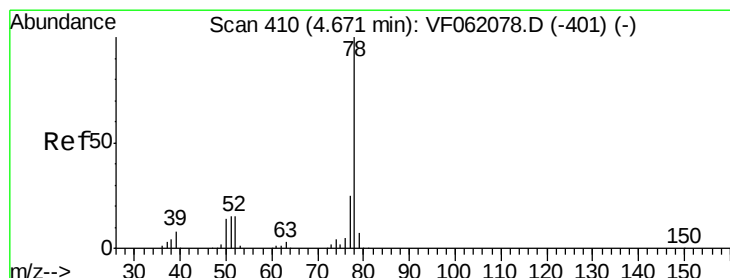
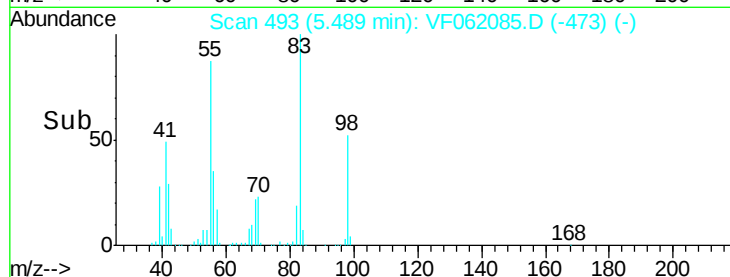
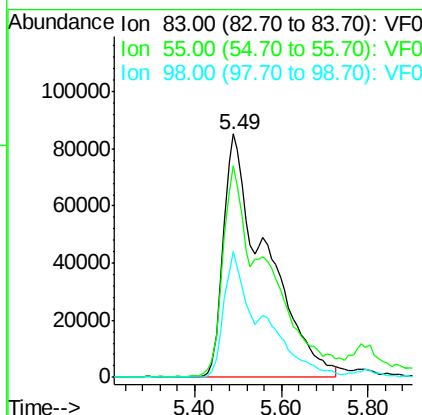
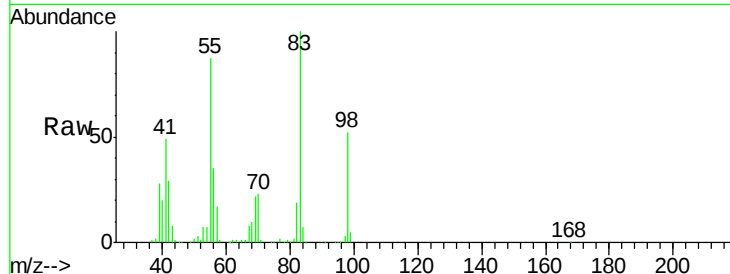
#39
Methvlcvclohexane
Concen: 173.024 ug/l m
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Instrument :
MSVOA_F
ClientSampleId :
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Tot Ion	83	Resp	581841
Ion	Ratio	Lower	Upper
83	100		
55	86.8	64.5	96.7
98	51.7	39.1	58.7

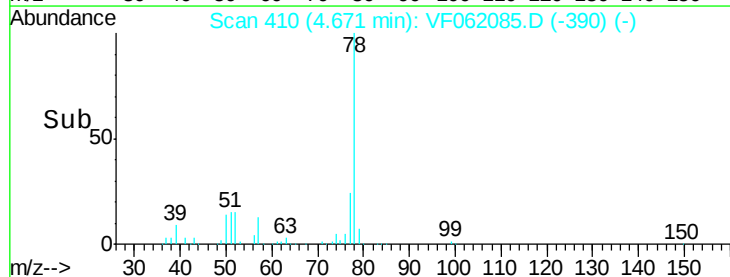
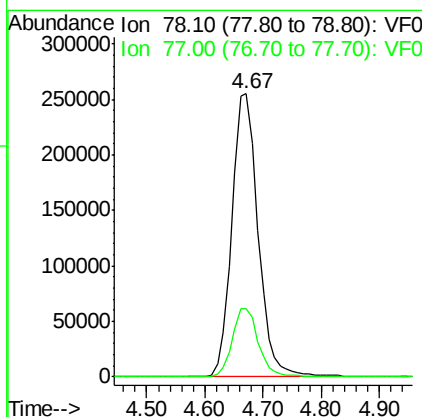
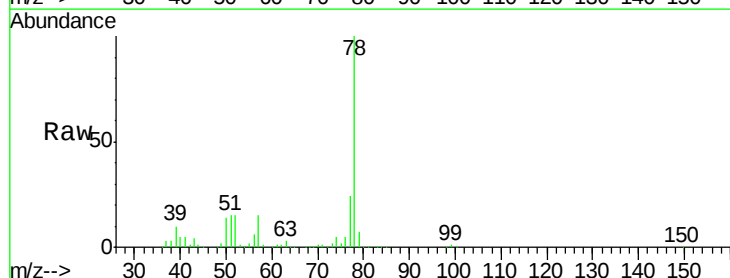
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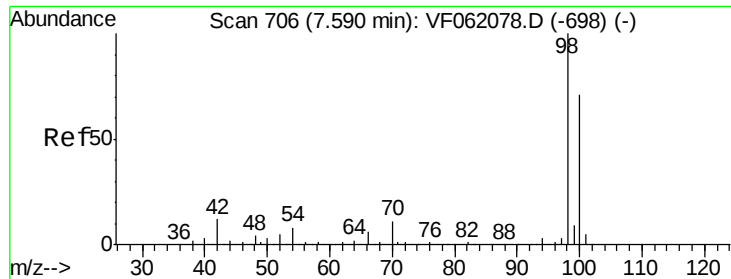
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#40
Benzene
Concen: 103.253 ug/l
RT: 4.67 min Scan# 410
Delta R.T. -0.00 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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





#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

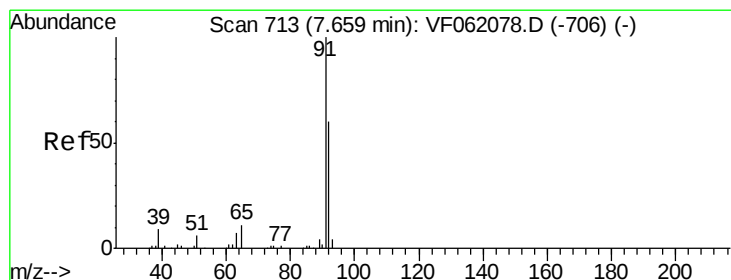
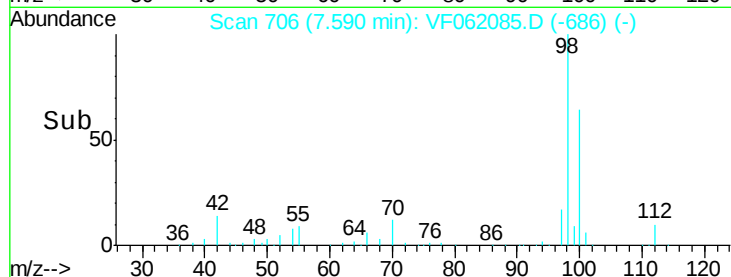
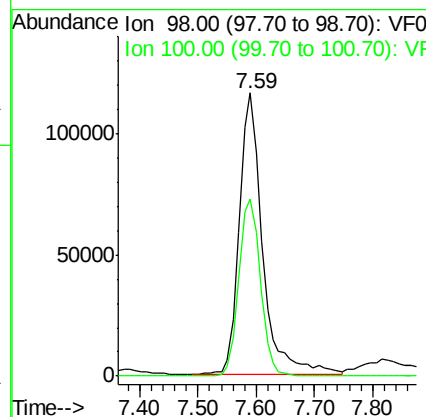
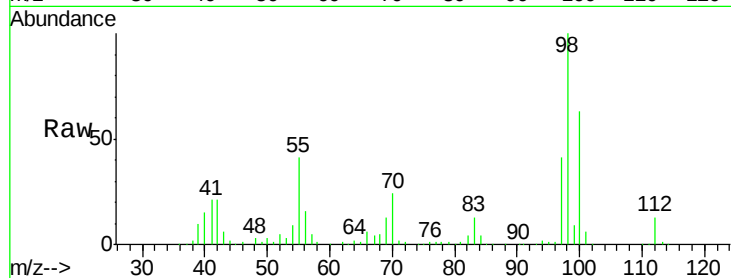
100 62.8 57.0 85.6

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#52

Toluene

Concen: 10.100 ug/l

RT: 7.66 min Scan# 713

Delta R.T. -0.00 min

Lab File: VF062085.D

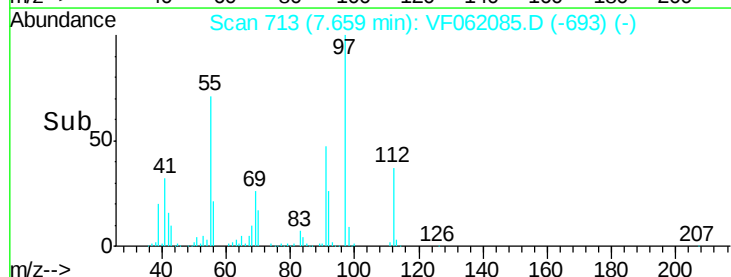
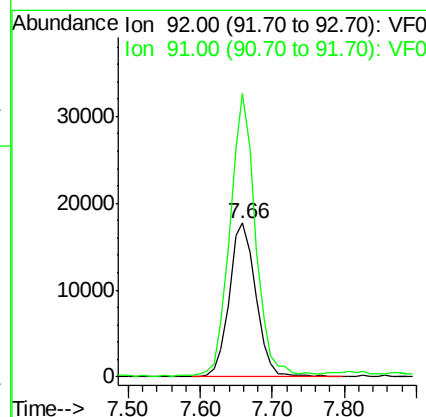
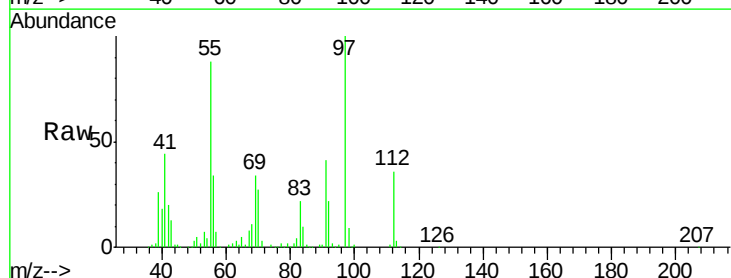
Acq: 22 Mar 2019 16:24

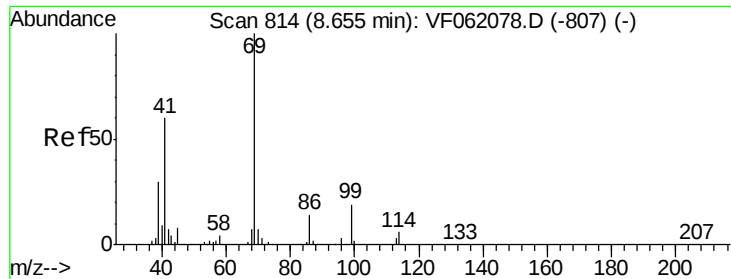
Tgt Ion: 92 Resp: 45438

Ion Ratio Lower Upper

92 100

91 184.0 134.1 201.1





#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

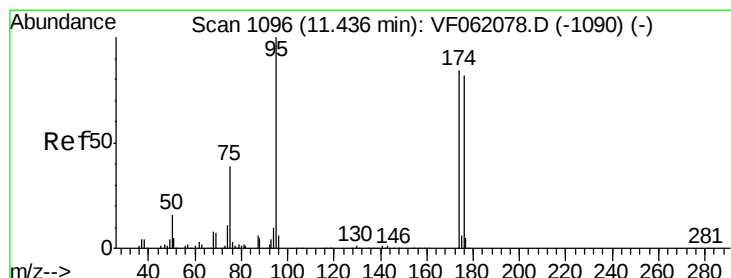
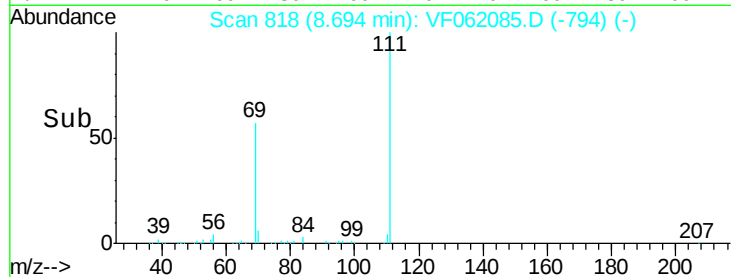
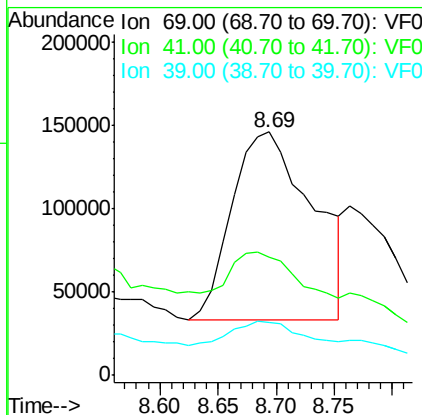
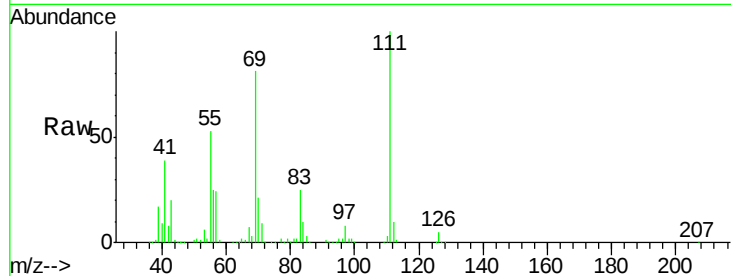
ClientSampleId :

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#

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#62

4-Bromofluorobenzene

Concen: 77.287 ug/l m

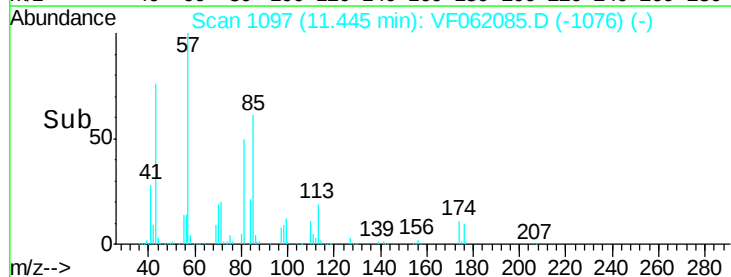
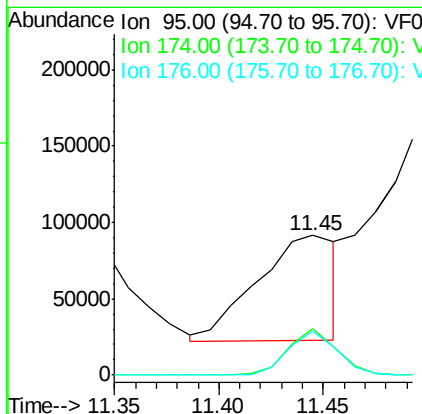
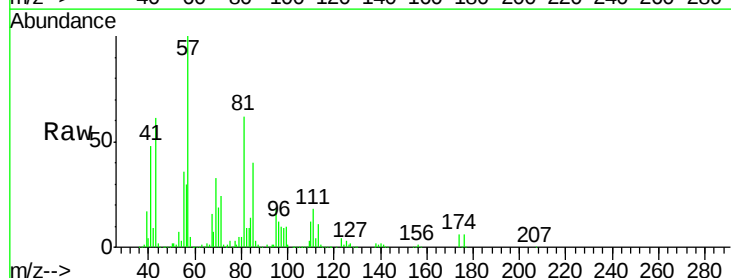
RT: 11.45 min Scan# 1097

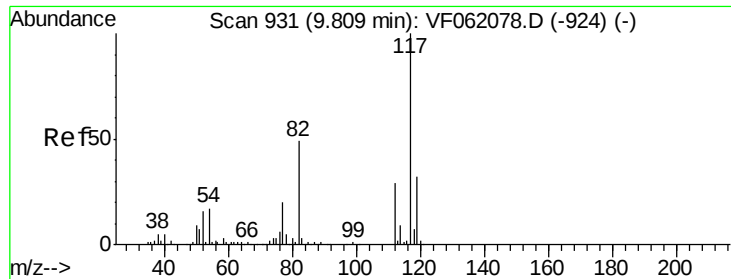
Delta R.T. 0.01 min

Lab File: VF062085.D

Acq: 22 Mar 2019 16:24

Tgt Ion:	95	Resp:	183270
Ion Ratio	Lower	Upper	
95	100		
174	33.0	0.0	168.2
176	31.3	0.0	164.2





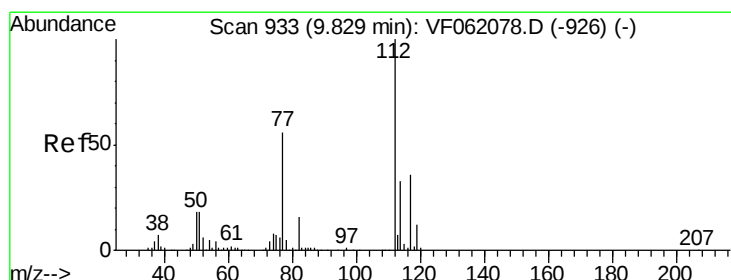
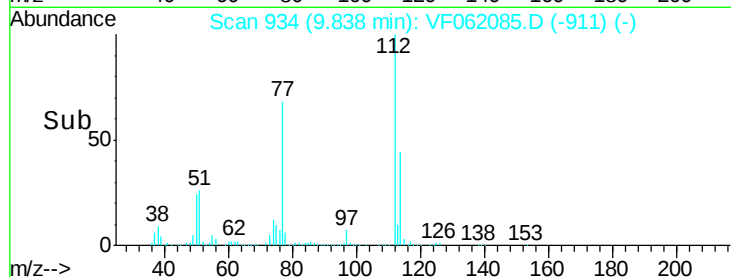
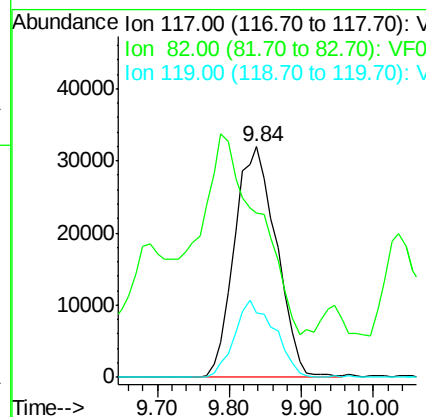
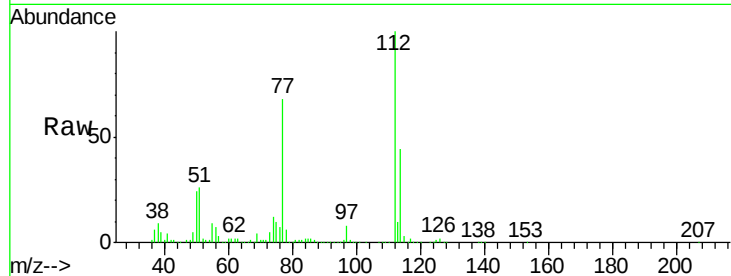
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.84 min Scan# 934
Delta R.T. 0.03 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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

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

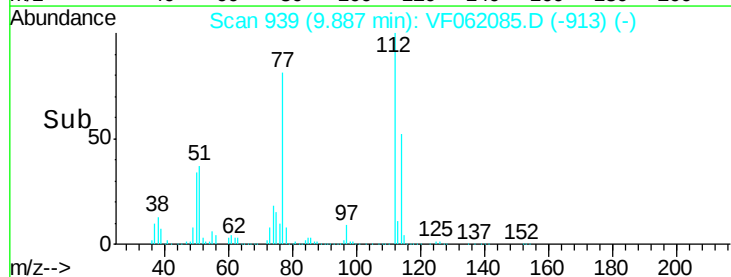
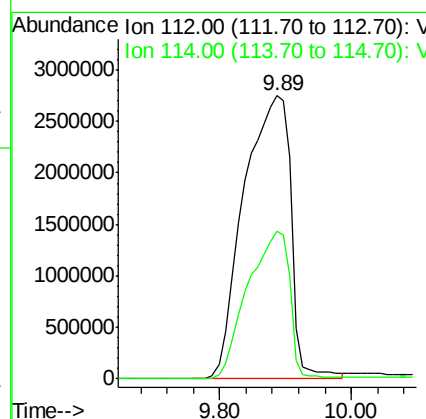
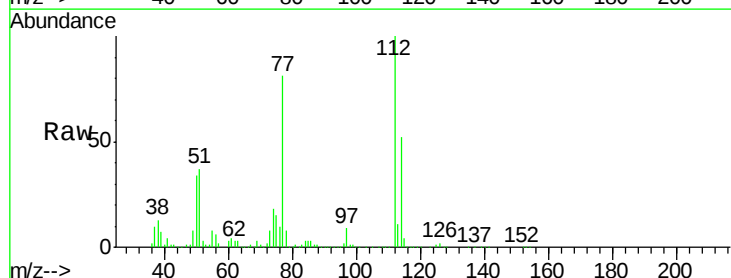
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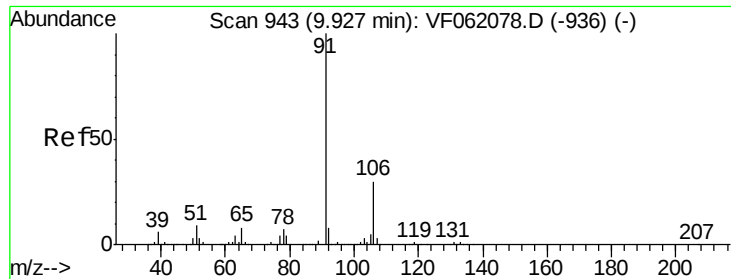
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3/27/2019 11:57:17 AM



#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	Ratio	Resp	Lower	Upper
112	100	13755155		
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

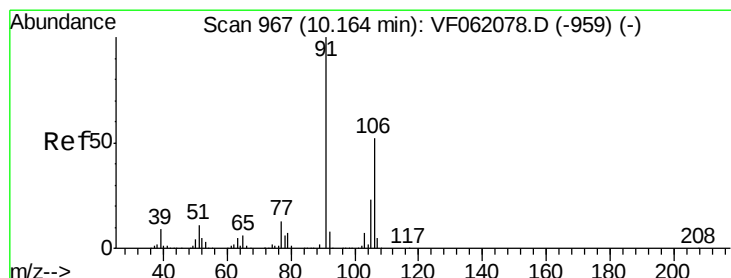
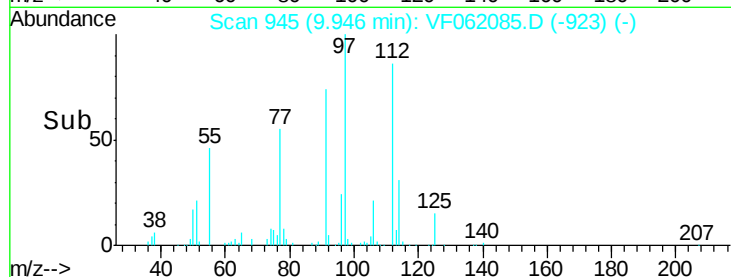
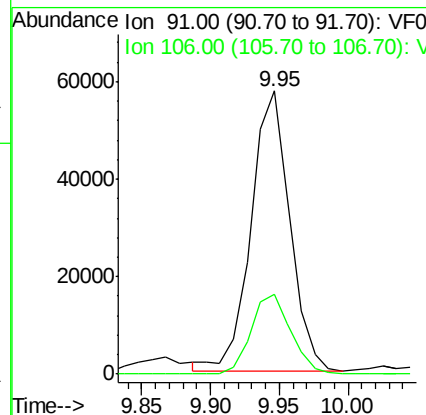
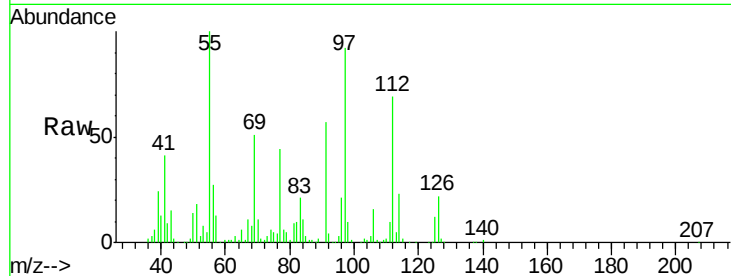
106 28.0 24.0 36.0

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#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

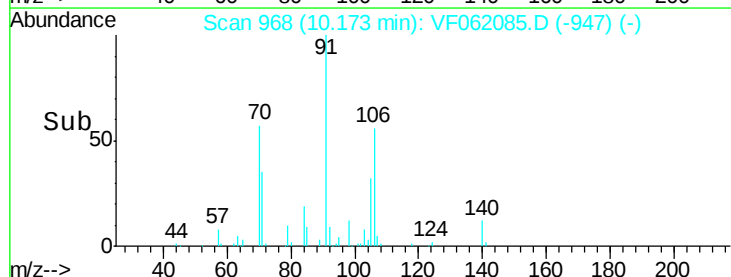
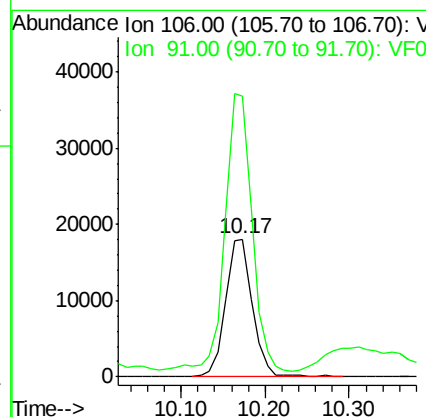
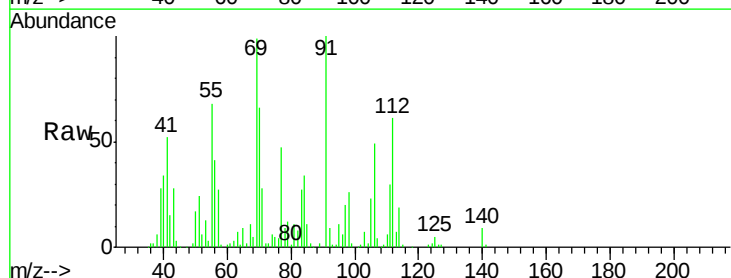
Acq: 22 Mar 2019 16:24

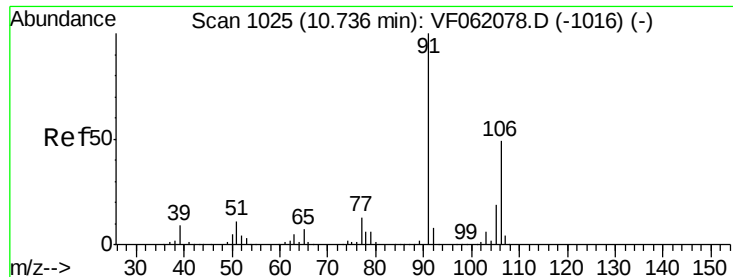
Tgt Ion: 106 Resp: 40098

Ion Ratio Lower Upper

106 100

91 203.2 154.4 231.6





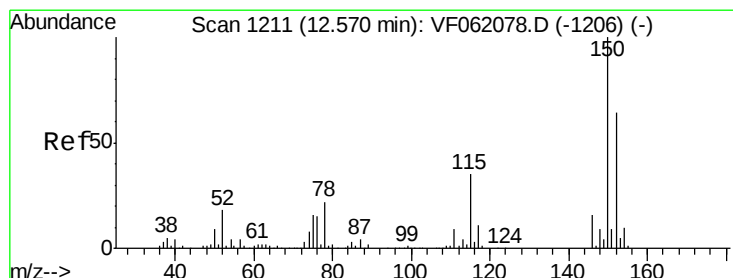
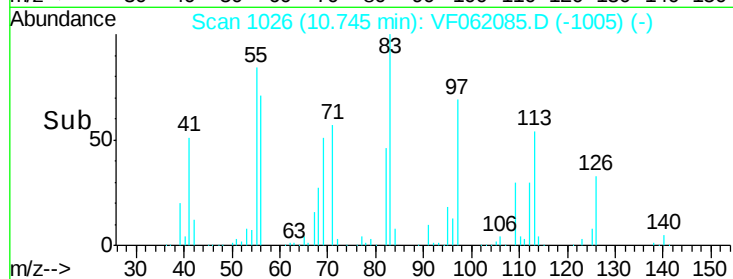
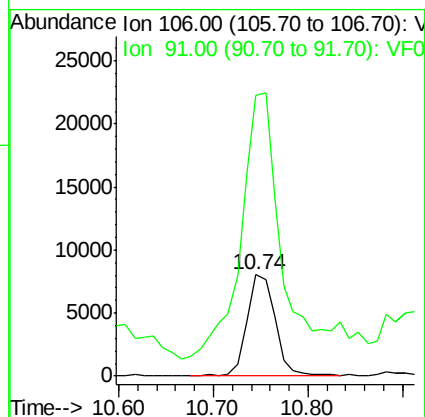
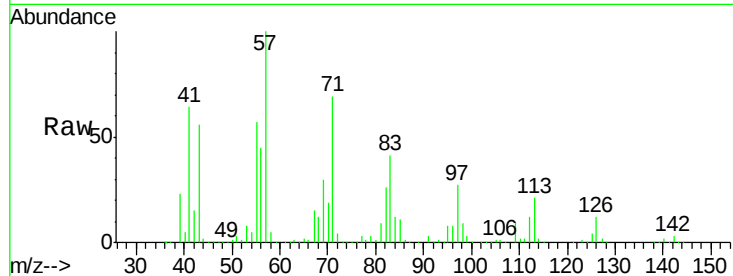
#69
o-Xylene
Concen: 10.116 ug/l
RT: 10.74 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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

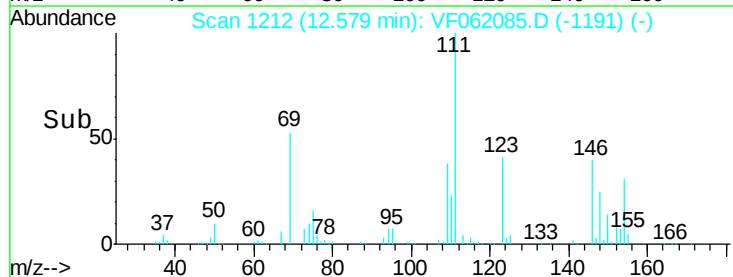
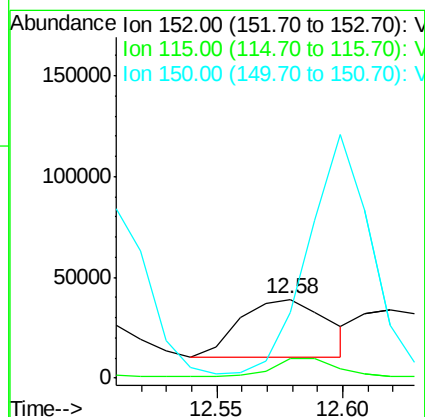
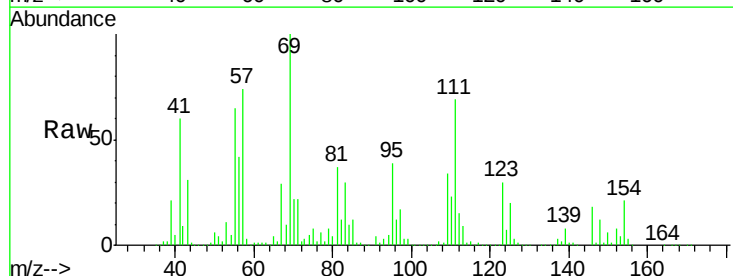
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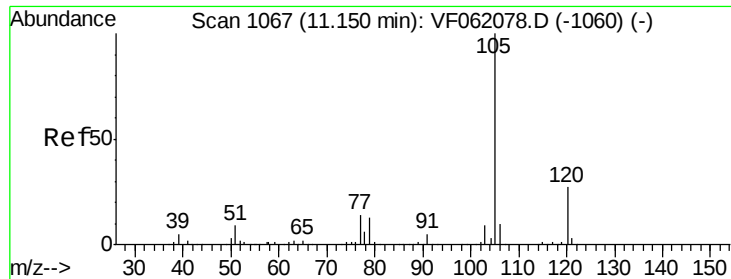
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1212
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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





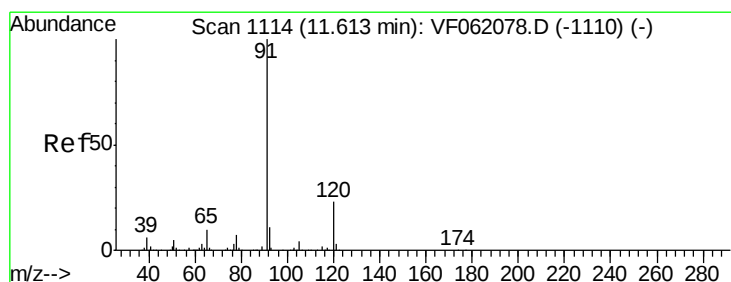
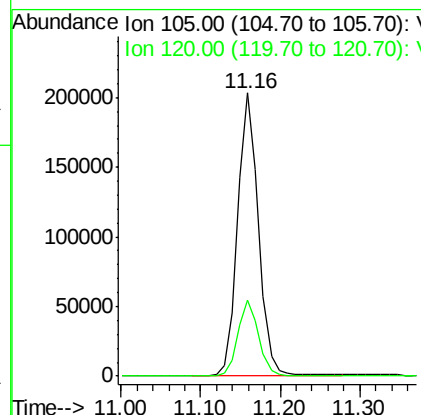
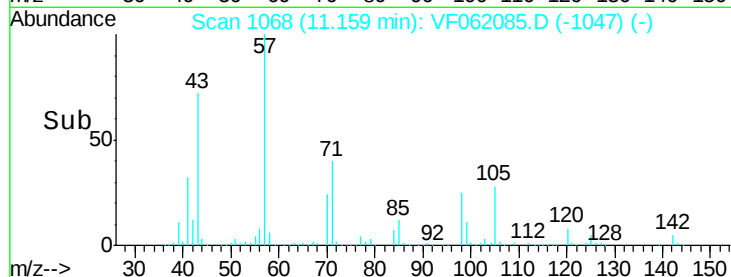
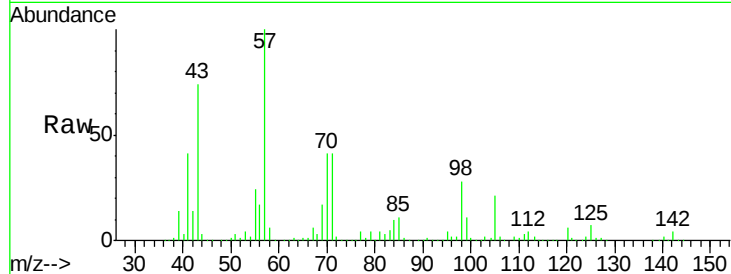
#73
Isopropylbenzene
Concen: 77.438 ug/l
RT: 11.16 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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

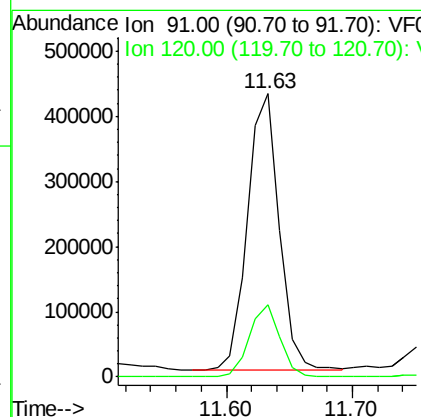
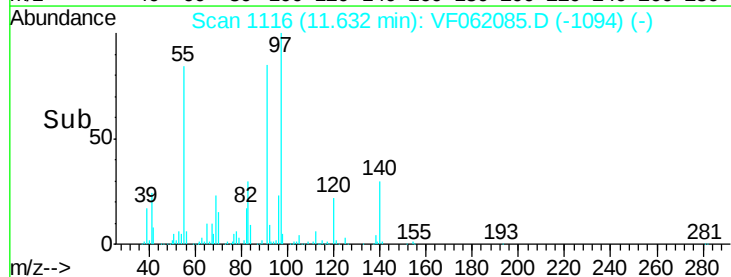
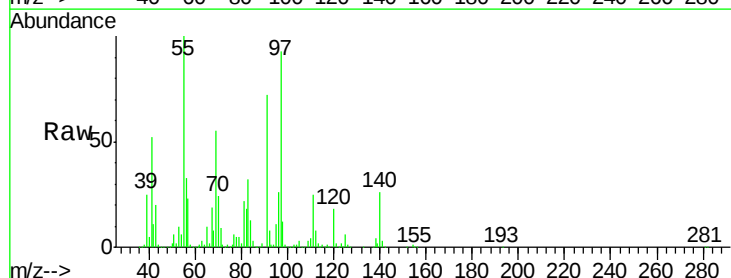
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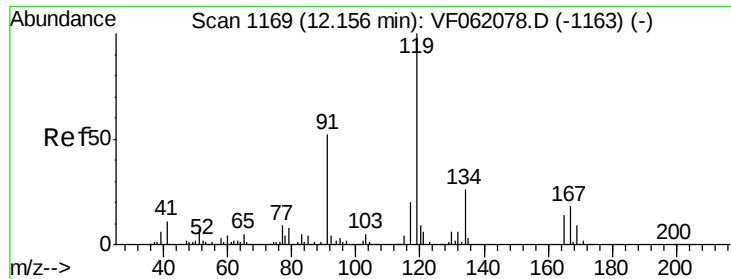
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#78
n-propylbenzene
Concen: 132.744 ug/l
RT: 11.63 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion: 91 Resp: 743545
Ion Ratio Lower Upper
91 100
120 25.6 11.3 33.8





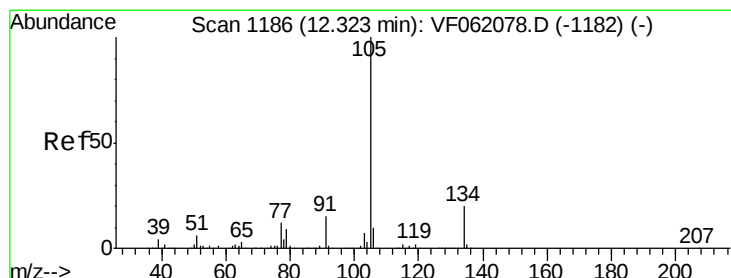
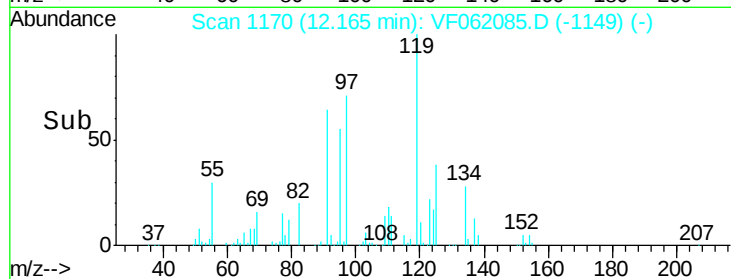
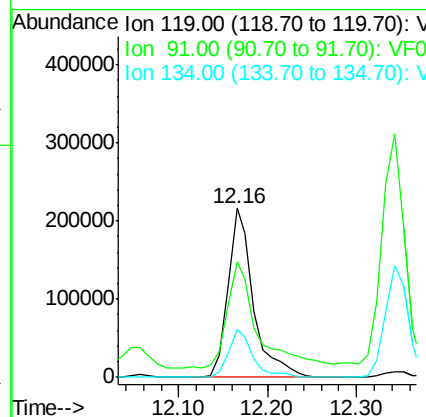
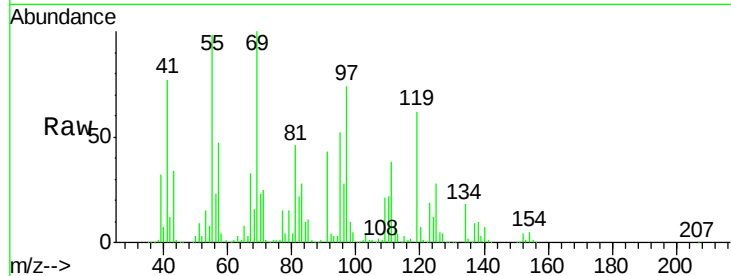
#83
tert-Butylbenzene
Concen: 104.250 ug/l
RT: 12.16 min Scan# 1170
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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

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

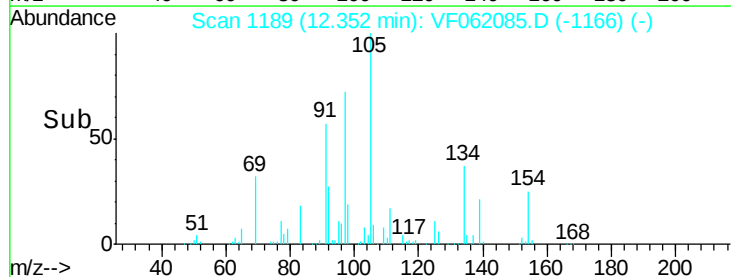
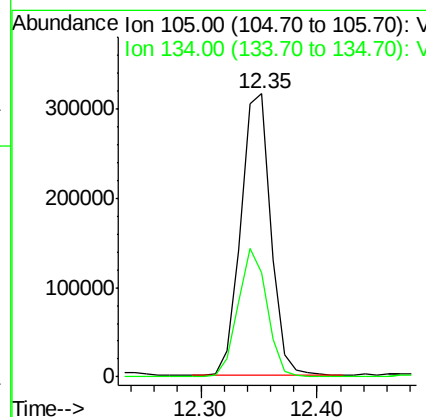
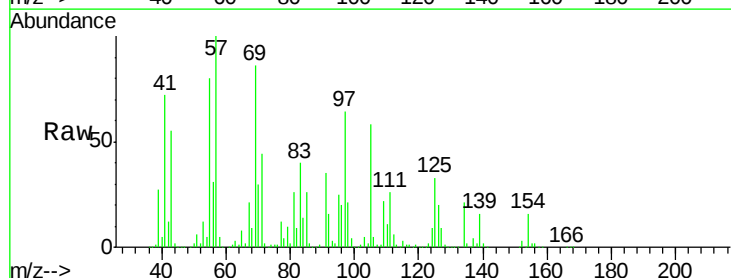
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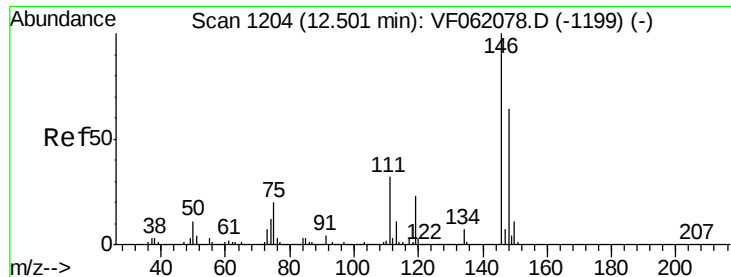
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#85
sec-Butylbenzene
Concen: 104.366 ug/l
RT: 12.35 min Scan# 1189
Delta R.T. 0.03 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	560789		
134	37.0	10.2	30.4	#





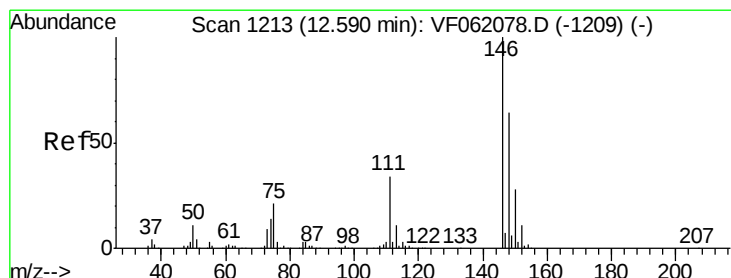
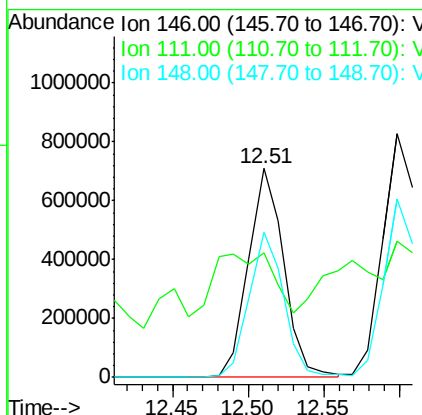
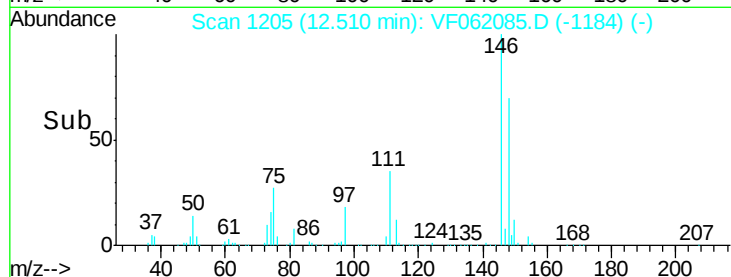
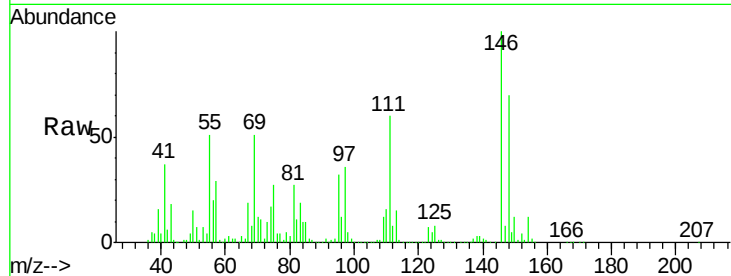
#87
 1,3-Dichlorobenzene
 Concen: 531.884 ug/l
 RT: 12.51 min Scan# 1205
 Delta R.T. 0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

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

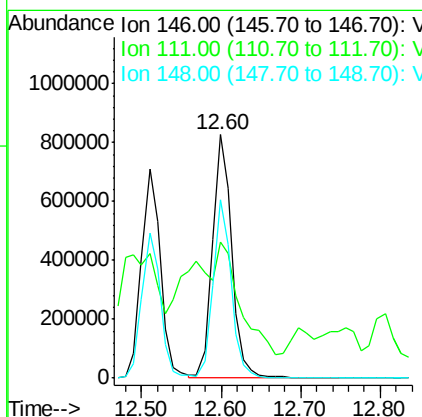
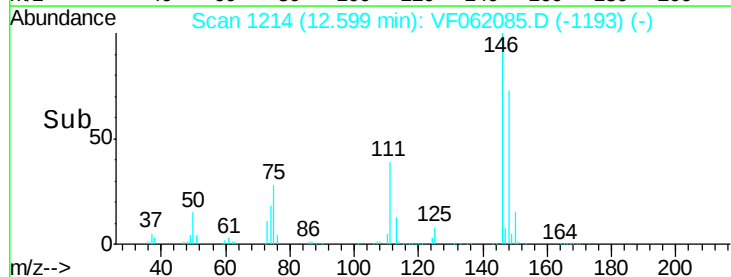
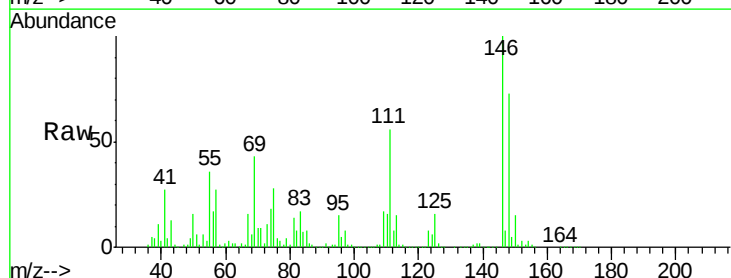
Manual Integrations
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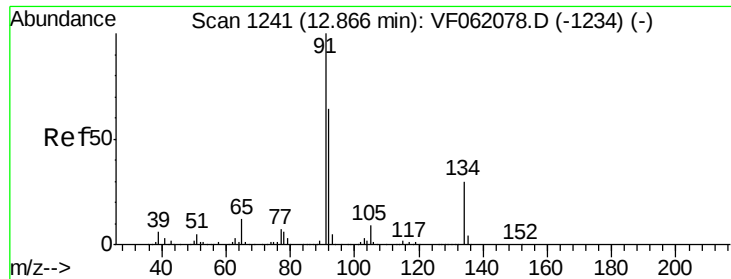
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#88
 1,4-Dichlorobenzene
 Concen: 657.641 ug/l
 RT: 12.60 min Scan# 1214
 Delta R.T. 0.01 min
 Lab File: VF062085.D
 Acq: 22 Mar 2019 16:24

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





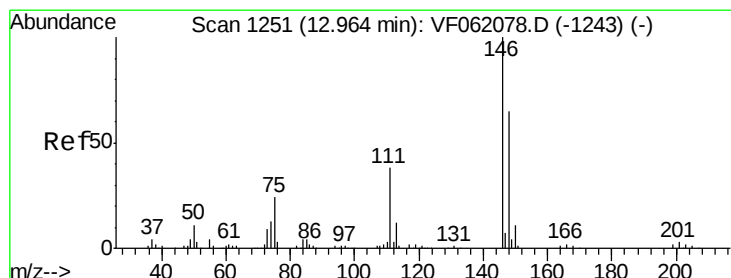
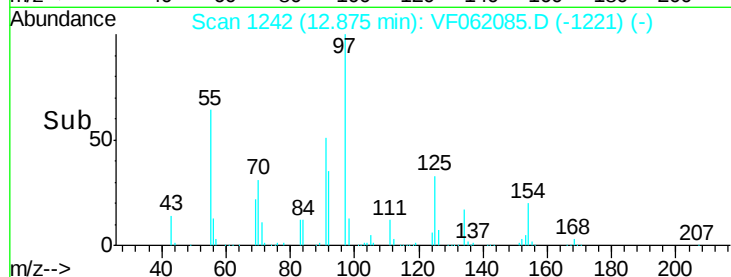
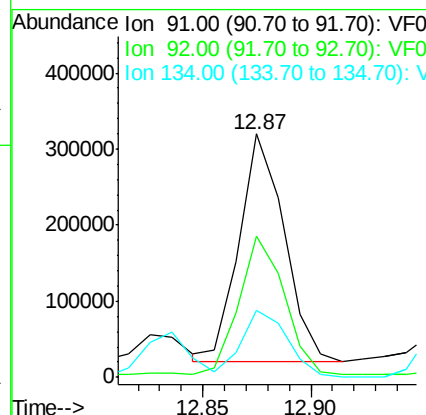
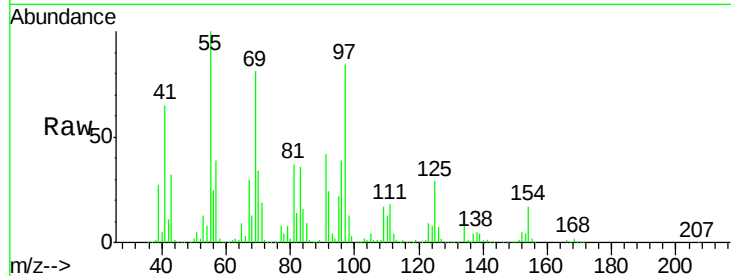
#89
n-Butylbenzene
Concen: 97.017 ug/l
RT: 12.87 min Scan# 1242
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

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

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

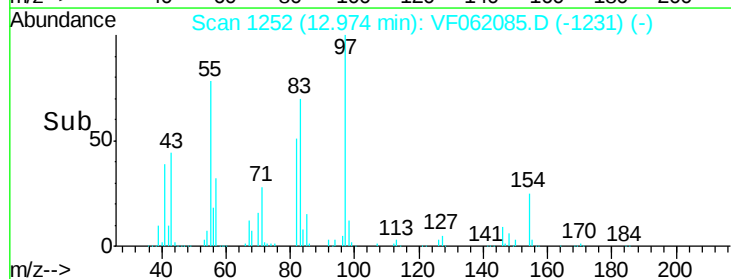
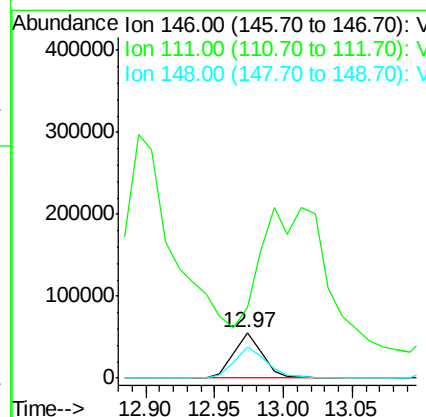
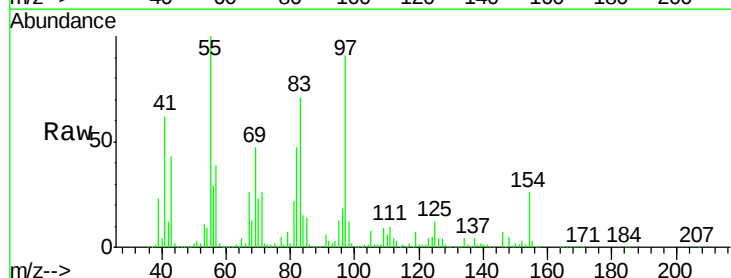
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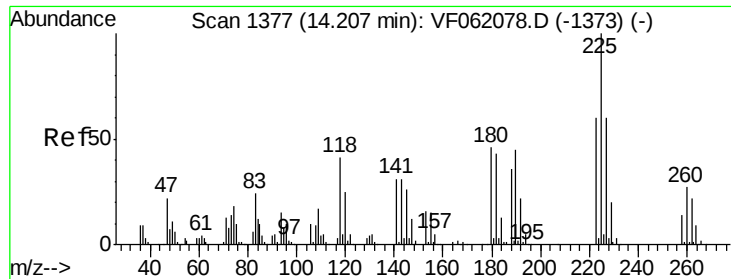
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#91
1,2-Dichlorobenzene
Concen: 38.373 ug/l
RT: 12.97 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VF062085.D
Acq: 22 Mar 2019 16:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	157.5	19.1	57.3#
148	68.5	32.8	98.3





#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

Instrument :

MSVOA_F

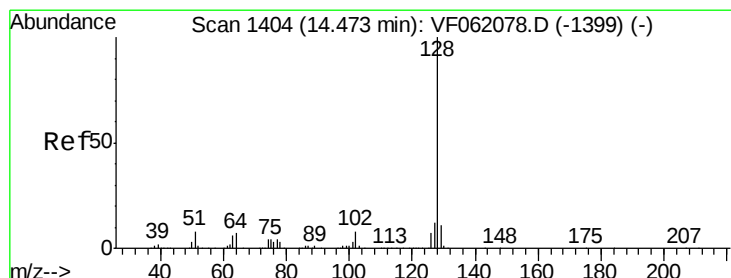
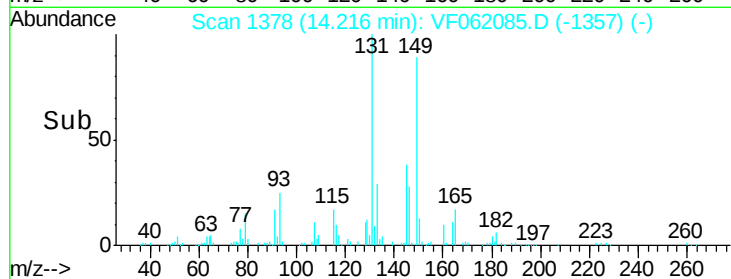
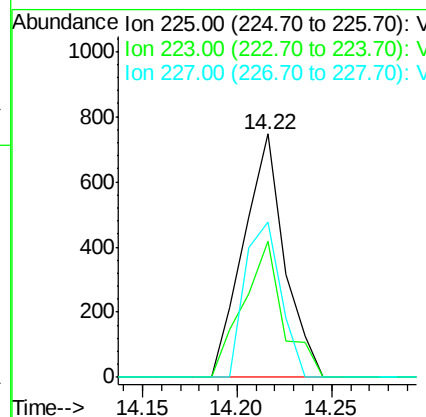
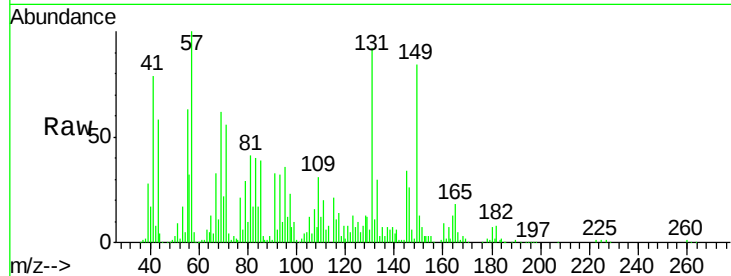
ClientSampleId :

WP022SB442-190319-(12-14)

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

Manual Integrations
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#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

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

