

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060891.D
 Acq On : 3 Dec 2018 15:04
 Operator : VA/AP
 Sample : J5771-07
 Misc : 6.89g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-112918-A

Quant Time: Dec 04 03:09:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	2596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.62	114	3155	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	2287	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	879	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	575	18.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.60%	
35) Dibromofluoromethane	4.14	113	640	25.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.14%	
50) Toluene-d8	7.58	98	2661	36.09	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	72.18%	
62) 4-Bromofluorobenzene	11.43	95	797	23.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.56%	

Target Compounds						Qvalue
3) Chloromethane	1.08	50	71	2.811	ug/l #	41
4) Vinyl Chloride	1.27	62	131	5.560	ug/l #	42
5) Bromomethane	1.34	94	724	43.580	ug/l #	2
6) Chloroethane	1.31	64	65	6.382	ug/l #	40
7) Trichlorofluoromethane	1.48	101	67	1.325	ug/l #	15
8) Diethyl Ether	1.52	74	111	15.270	ug/l #	1
11) Tert butyl alcohol	2.46	59	65	51.850	ug/l #	62
12) 1,1-Dichloroethene	1.81	96	66	3.211	ug/l #	1
13) Acrolein	1.89	56	329	276.991	ug/l	92
14) Allyl chloride	2.12	41	662	25.839	ug/l #	66
15) Acrylonitrile	2.98	53	365	129.869	ug/l #	19
16) Acetone	2.24	43	1304	231.228	ug/l	98
17) Carbon Disulfide	1.76	76	70	1.270	ug/l #	1
18) Methyl Acetate	2.35	43	1112	119.839	ug/l	97
19) Methyl tert-butyl Ether	2.45	73	273	5.897	ug/l #	1
20) Methylene Chloride	2.20	84	197	9.522	ug/l #	49
21) trans-1,2-Dichloroethene	2.32	96	145	7.317	ug/l #	1
22) Diisopropyl ether	2.79	45	632	9.062	ug/l #	11
23) Vinyl Acetate	3.24	43	1387	43.510	ug/l #	80
24) 1,1-Dichloroethane	2.92	63	148	3.567	ug/l #	86
25) 2-Butanone	4.37	43	654	67.048	ug/l #	57
26) 2,2-Dichloropropane	3.57	77	75	2.788	ug/l #	60
27) cis-1,2-Dichloroethene	3.48	96	60	1.860	ug/l	1
29) Tetrahydrofuran	4.12	42	91	22.009	ug/l #	37
30) Chloroform	4.01	83	65	1.018	ug/l #	17
31) Cyclohexane	3.71	56	170	3.948	ug/l #	15
32) 1,1,1-Trichloroethane	3.98	97	83	1.874	ug/l #	22
36) 1,1-Dichloropropene	4.30	75	63	1.800	ug/l #	44
37) Ethyl Acetate	4.13	43	320	22.502	ug/l #	14
40) Benzene	4.71	78	141	1.824	ug/l #	52
41) Methacrylonitrile	4.80	41	326	43.795	ug/l #	38
43) Isopropyl Acetate	6.98	43	194	8.817	ug/l #	49
47) Bromodichloromethane	6.42	83	70	1.935	ug/l #	25
48) Methyl methacrylate	6.78	41	168	13.051	ug/l #	53

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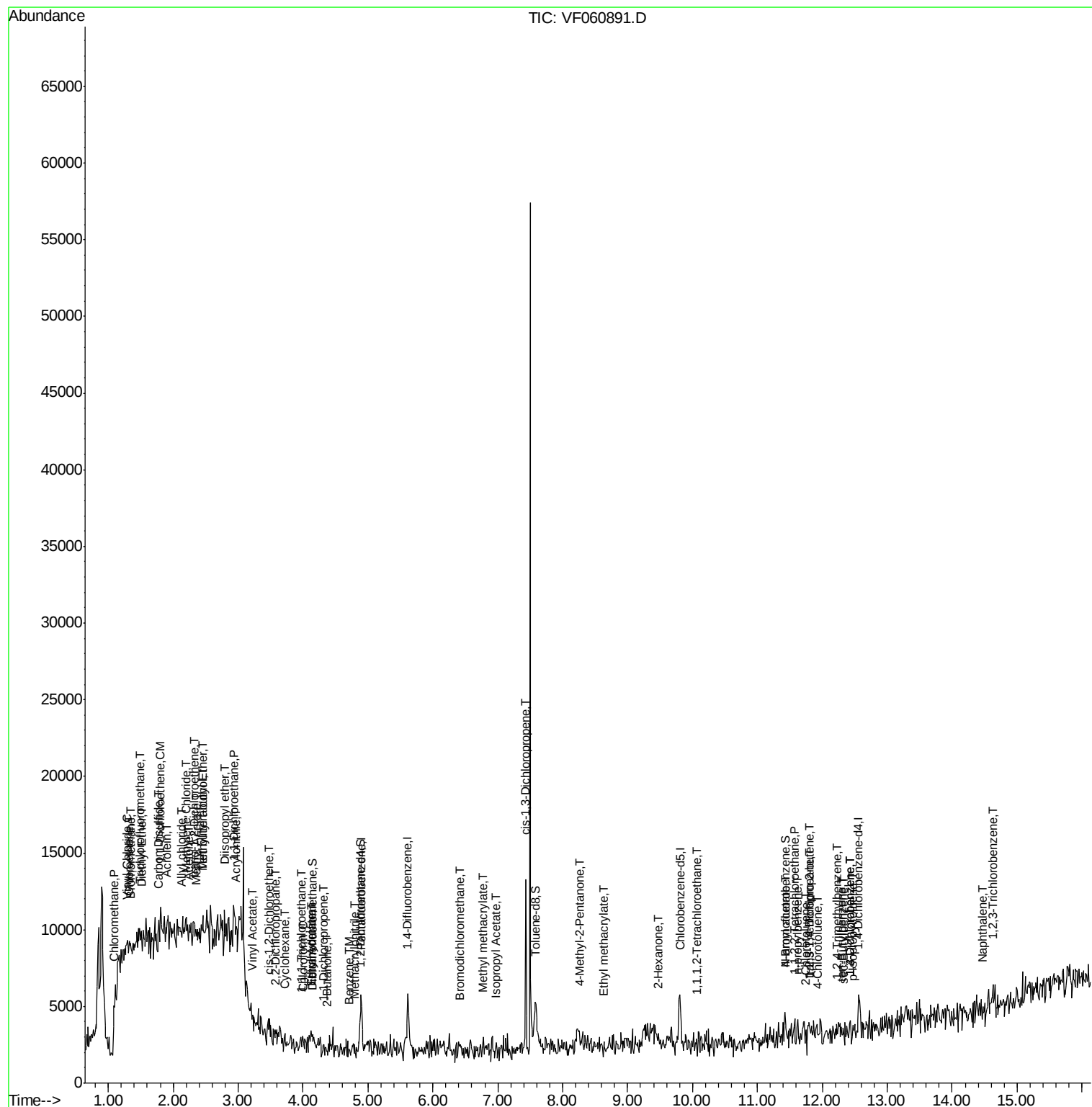
51) 4-Methyl-2-Pentanone	8.27	43	267	20.360	ug/l #	38
54) cis-1,3-Dichloropropene	7.43	75	73	2.004	ug/l #	1
56) Ethyl methacrylate	8.62	69	149	8.477	ug/l #	51
59) 2-Hexanone	9.48	43	621	67.499	ug/l #	27
66) 1,1,1,2-Tetrachloroethane	10.06	131	63	3.294	ug/l #	10
74) N-amyl acetate	11.42	43	305	19.015	ug/l #	17
75) 1,1,2,2-Tetrachloroethane	11.58	83	76	6.648	ug/l #	25
76) 1,2,3-Trichloropropane	11.81	75	62	7.461	ug/l #	38
78) n-propylbenzene	11.61	91	82	1.008	ug/l #	56
79) 2-Chlorotoluene	11.75	91	81	1.737	ug/l #	43
81) trans-1,4-Dichloro-2-buten	11.81	75	62	15.228	ug/l #	16
82) 4-Chlorotoluene	11.94	91	61	1.243	ug/l #	45
83) tert-Butylbenzene	12.29	119	74	1.288	ug/l #	29
84) 1,2,4-Trimethylbenzene	12.23	105	139	2.470	ug/l #	29
85) sec-Butylbenzene	12.32	105	134	1.704	ug/l #	58
86) p-Isopropyltoluene	12.47	119	86	1.304	ug/l #	51
87) 1,3-Dichlorobenzene	12.44	146	61	2.106	ug/l #	24
88) 1,4-Dichlorobenzene	12.44	146	61	2.161	ug/l #	25
95) Naphthalene	14.47	128	228	2.828	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.62	180	66	3.708	ug/l #	12

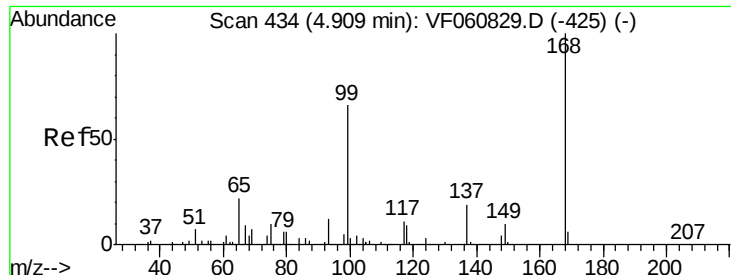
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

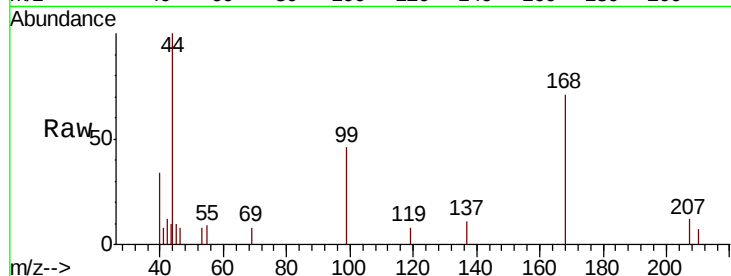
EO-02-112918-A

Tot Ion:168 Resp: 2596

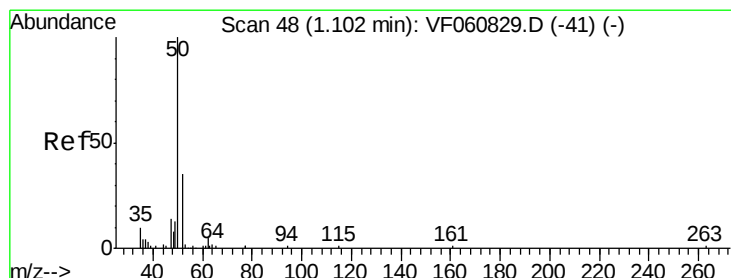
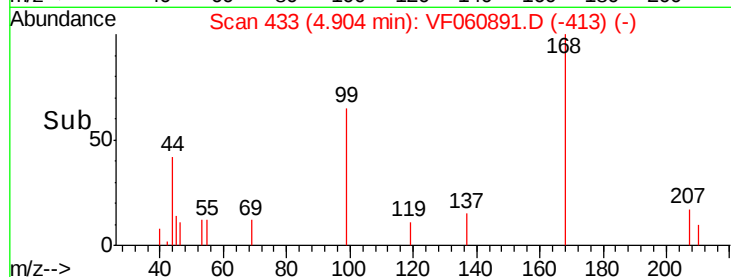
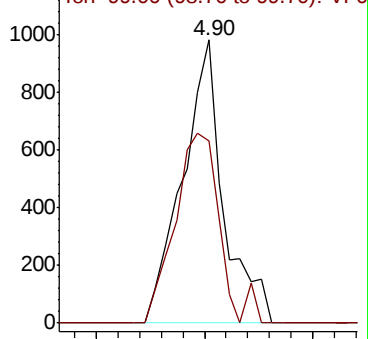
Ion Ratio Lower Upper

168 100

99 64.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 2.811 ug/l

RT: 1.08 min Scan# 45

Delta R.T. -0.03 min

Lab File: VF060891.D

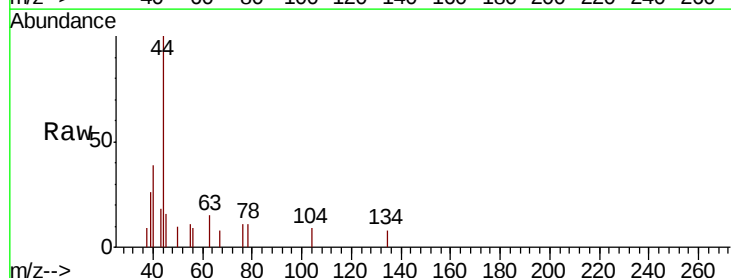
Acq: 3 Dec 2018 15:04

Tgt Ion: 50 Resp: 71

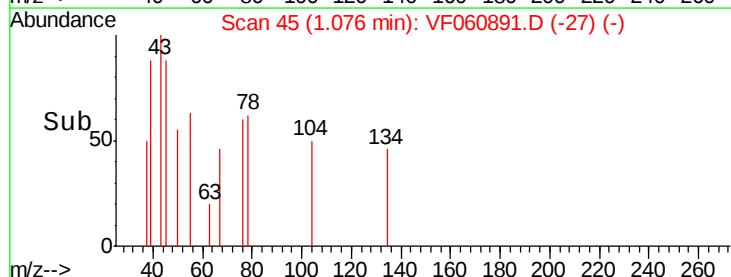
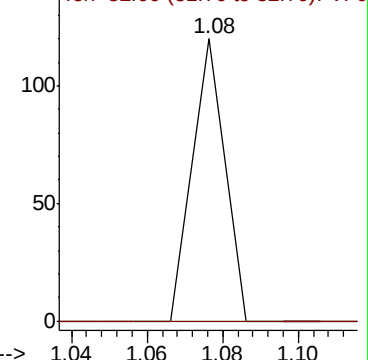
Ion Ratio Lower Upper

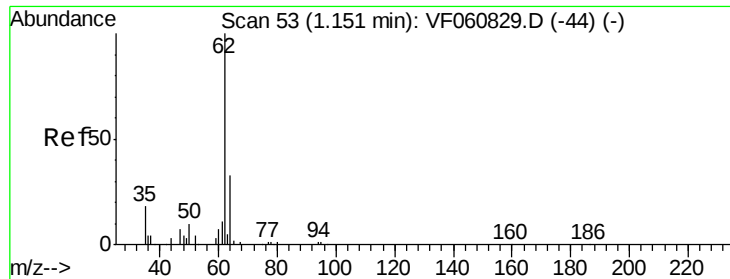
50 100

52 0.0 27.0 40.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 5.560 ug/l

RT: 1.27 min Scan# 65

Delta R.T. 0.12 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

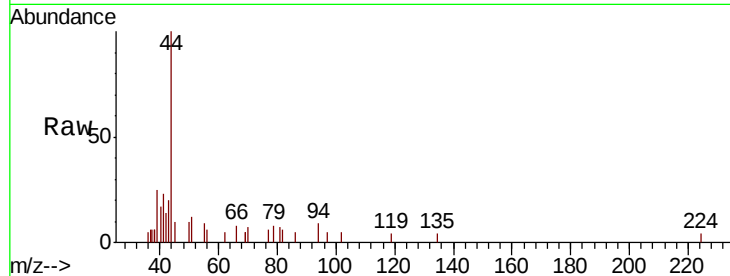
EO-02-112918-A

Tot Ion: 62 Resp: 131

Ion Ratio Lower Upper

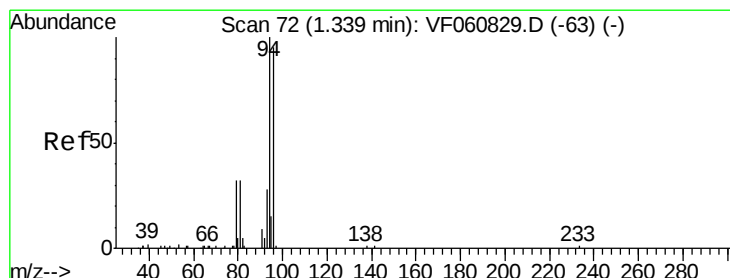
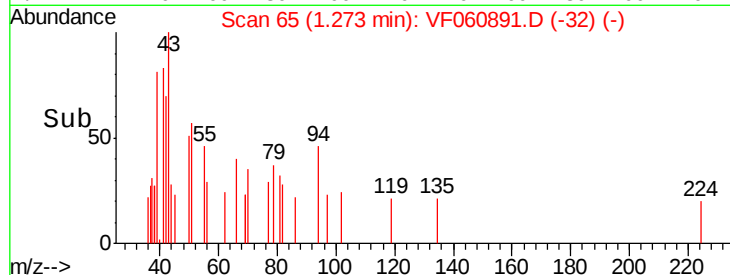
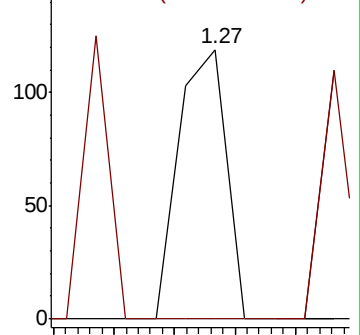
62 100

64 0.0 26.4 39.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



#5

Bromomethane

Concen: 43.580 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF060891.D

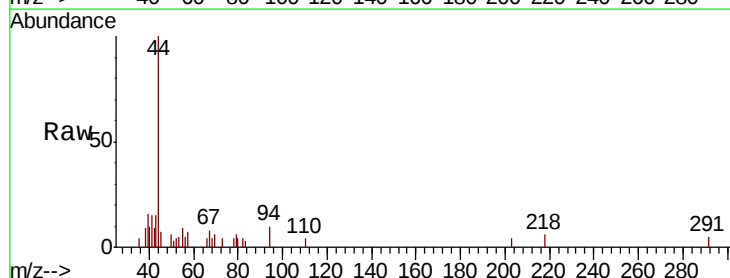
Acq: 3 Dec 2018 15:04

Tgt Ion: 94 Resp: 724

Ion Ratio Lower Upper

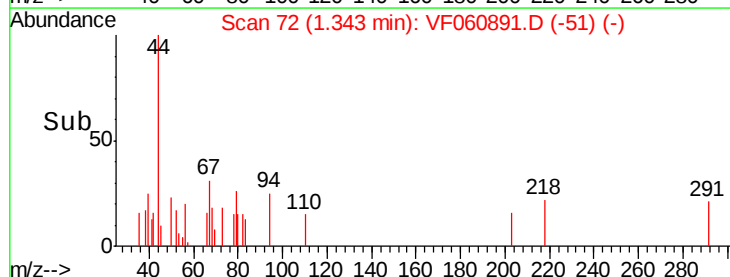
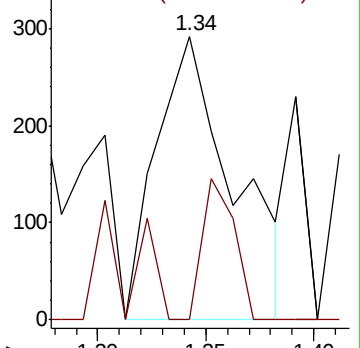
94 100

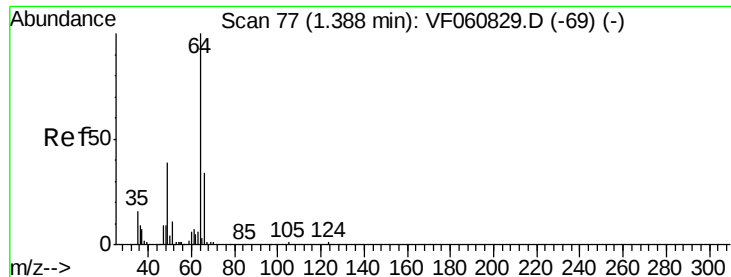
96 0.0 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 6.382 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.07 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

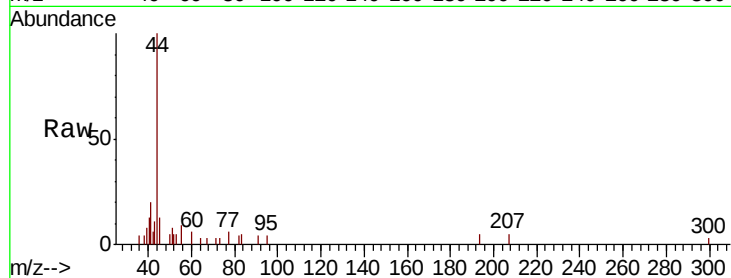
EO-02-112918-A

Tot Ion: 64 Resp: 65

Ion Ratio Lower Upper

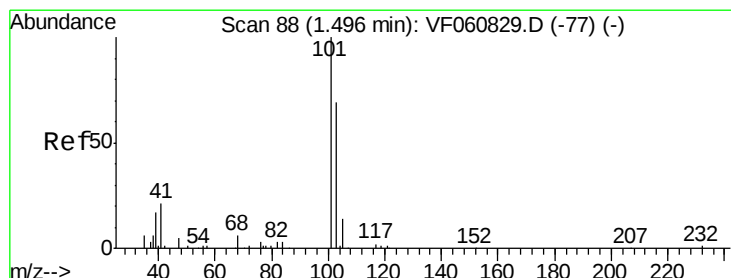
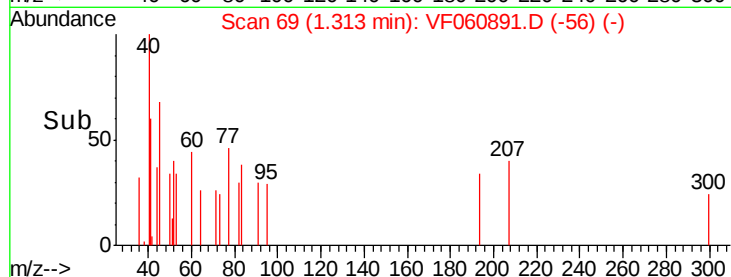
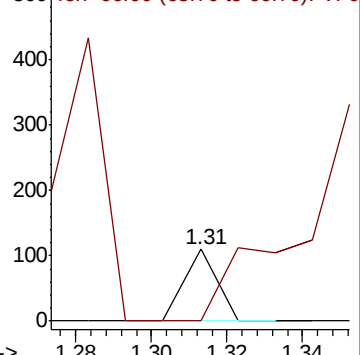
64 100

66 0.0 28.1 42.1#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#7

Trichlorofluoromethane

Concen: 1.325 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF060891.D

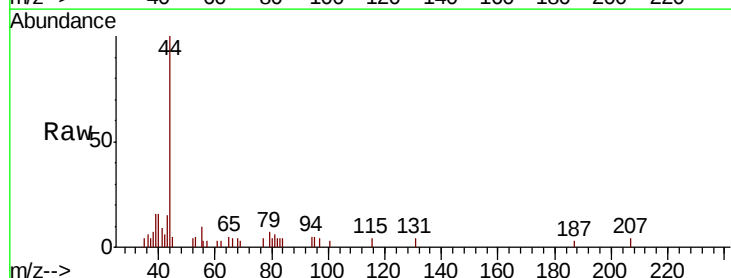
Acq: 3 Dec 2018 15:04

Tgt Ion: 101 Resp: 67

Ion Ratio Lower Upper

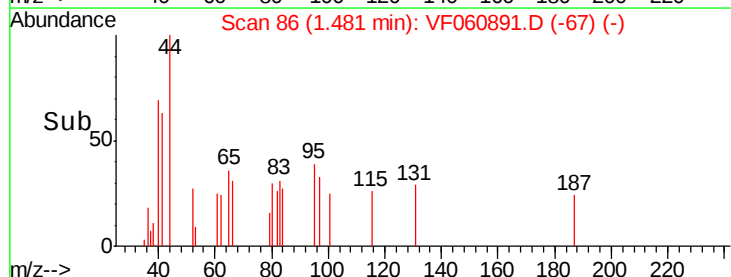
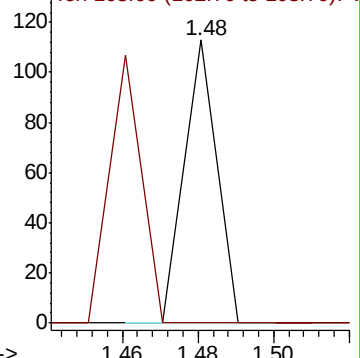
101 100

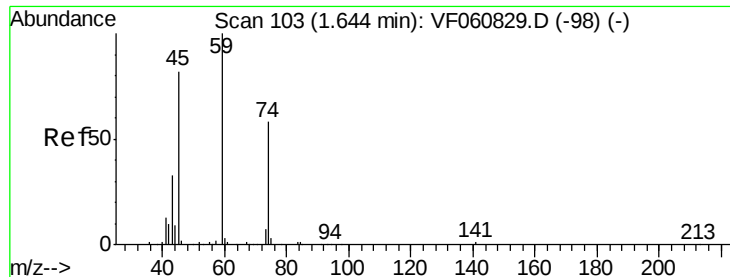
103 0.0 55.4 83.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#8

Diethyl Ether

Concen: 15.270 ug/l

RT: 1.52 min Scan# 90

Delta R.T. -0.12 min

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ClientSampleId :

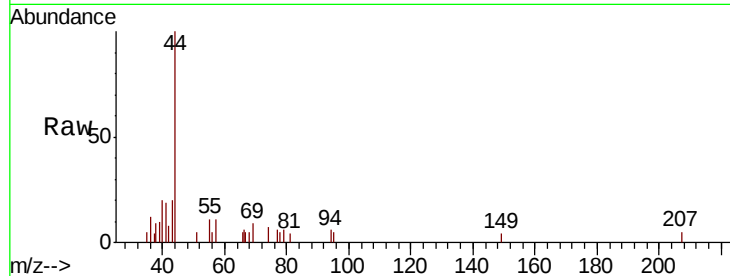
EO-02-112918-A

Tot Ion: 74 Resp: 111

Ion Ratio Lower Upper

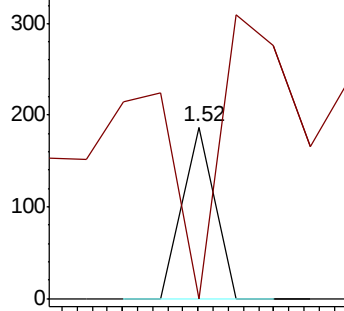
74 100

45 0.0 71.0 212.8#

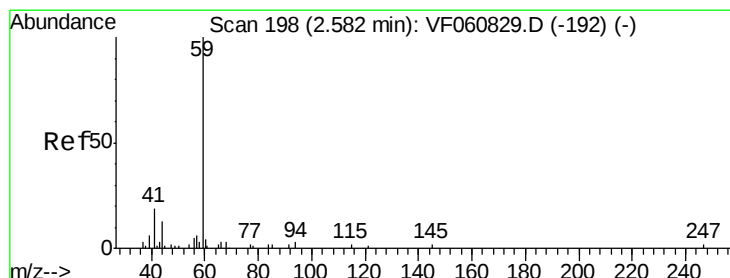
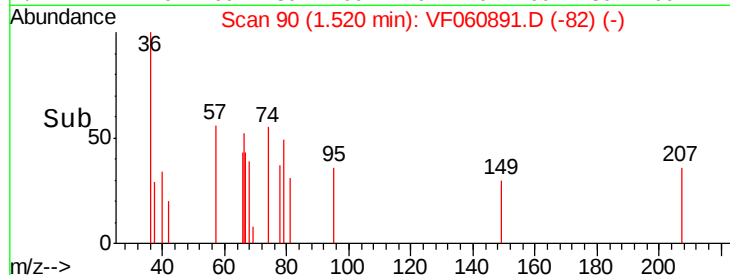


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->



#11

Tert butyl alcohol

Concen: 51.850 ug/l

RT: 2.46 min Scan# 185

Delta R.T. -0.12 min

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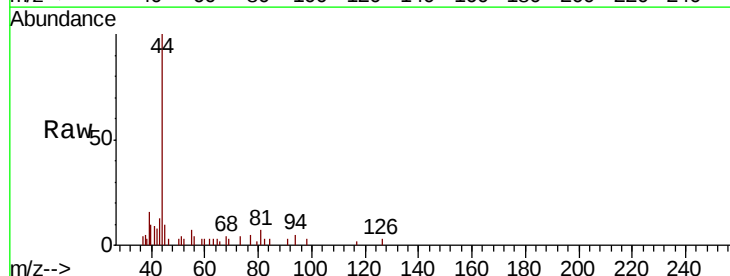
Acq: 3 Dec 2018 15:04

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

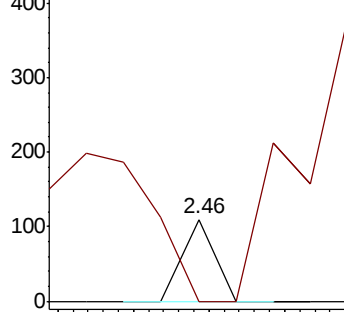
59 100

57 0.0 12.7 19.1#

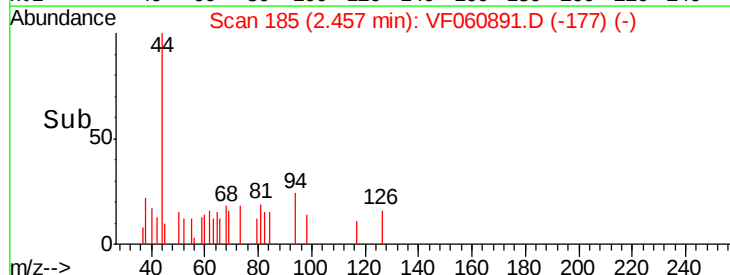


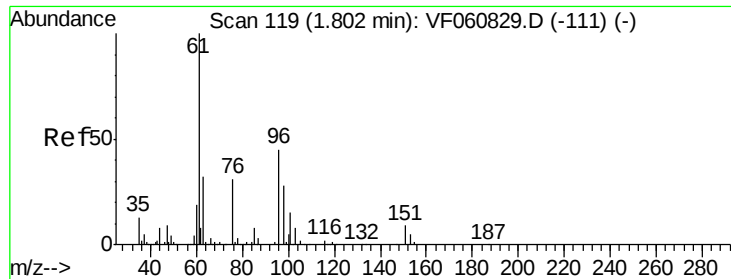
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time-->





#12

1,1-Dichloroethene

Concen: 3.211 ug/l

RT: 1.81 min Scan# 119

Delta R.T. 0.00 min

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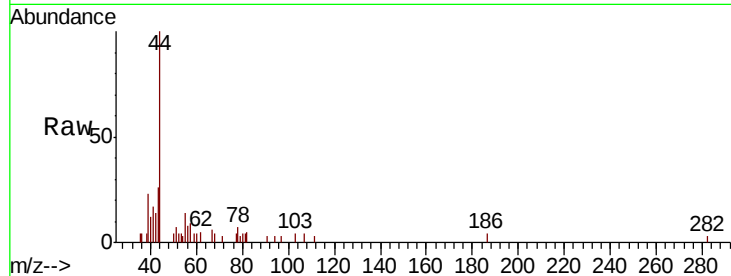
Tot Ion: 96 Resp: 66

Ion Ratio Lower Upper

96 100

61 0.0 177.3 265.9#

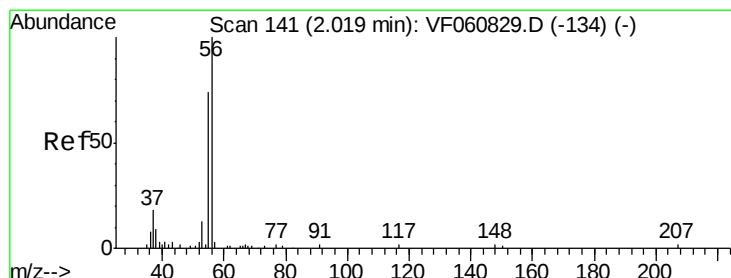
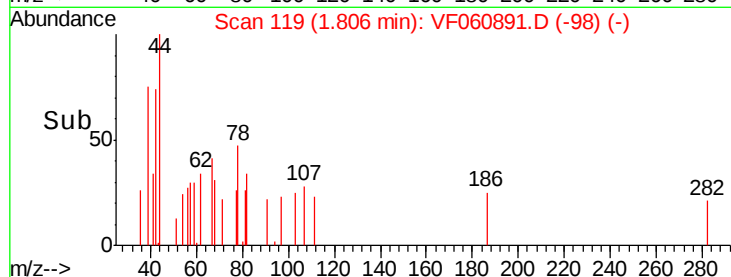
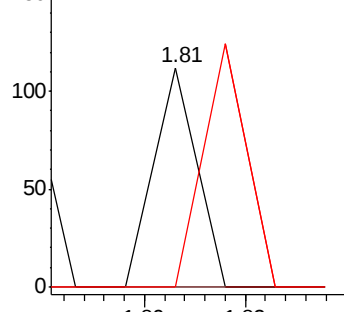
98 0.0 49.6 74.4#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 276.991 ug/l

RT: 1.89 min Scan# 128

Delta R.T. -0.12 min

Lab File: VF060891.D

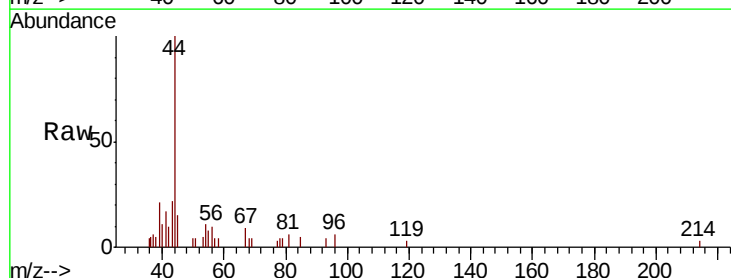
Acq: 3 Dec 2018 15:04

Tgt Ion: 56 Resp: 329

Ion Ratio Lower Upper

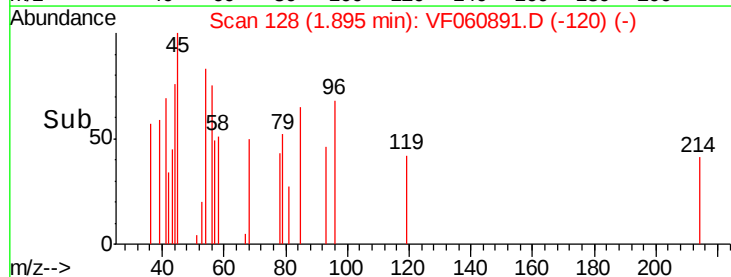
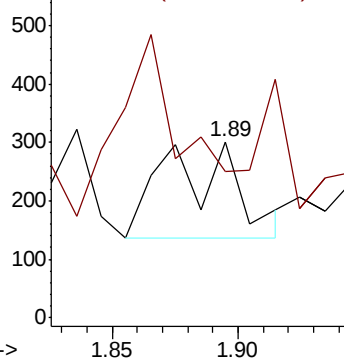
56 100

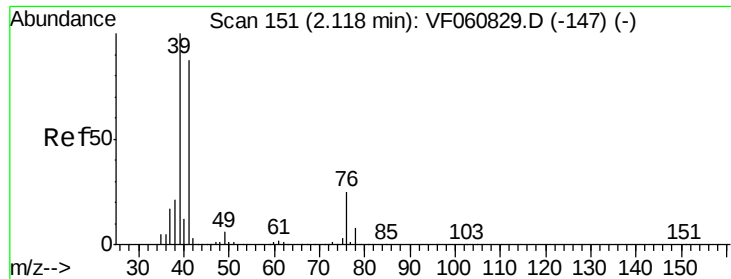
55 83.1 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

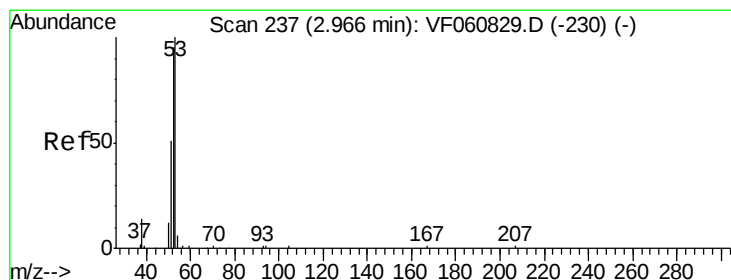
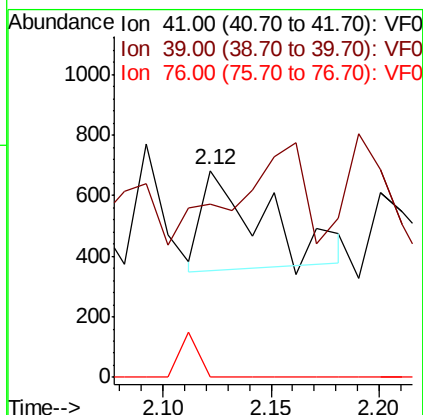
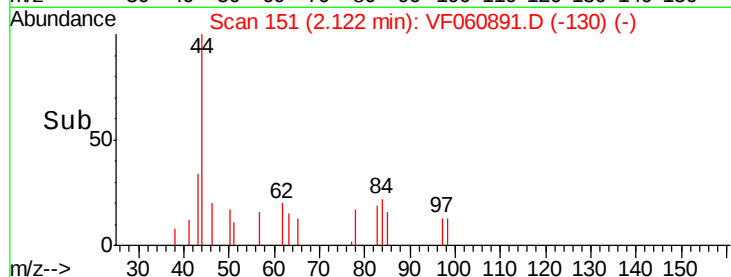
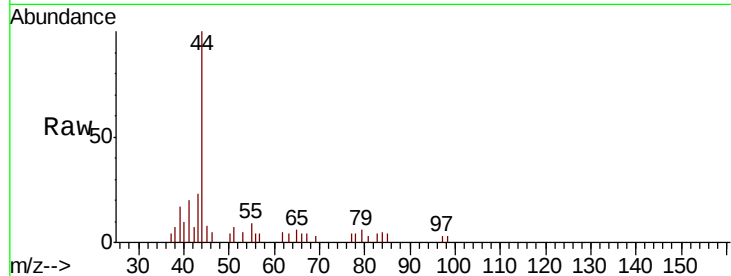




#14
Allvl chloride
Concen: 25.839 ug/l
RT: 2.12 min Scan# 151
Delta R.T. 0.00 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

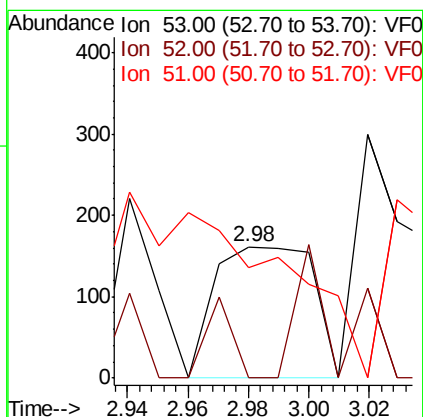
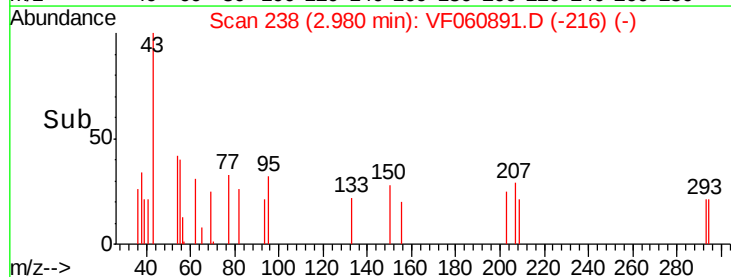
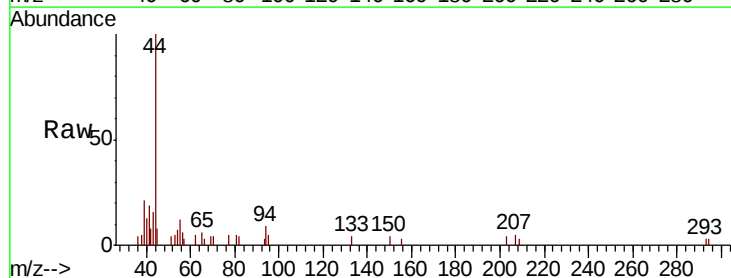
Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

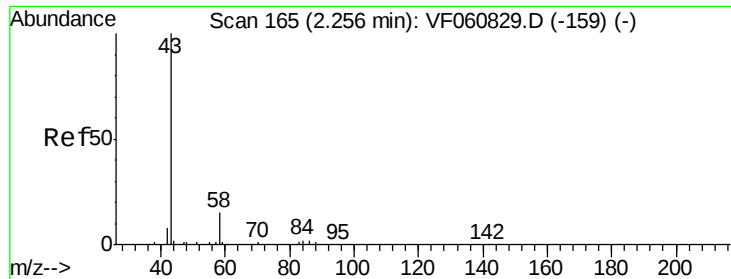
Tot Ion: 41 Resp: 662
Ion Ratio Lower Upper
41 100
39 83.5 91.7 137.5#
76 0.0 23.5 35.3#



#15
Acrylonitrile
Concen: 129.869 ug/l
RT: 2.98 min Scan# 238
Delta R.T. 0.01 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 53 Resp: 365
Ion Ratio Lower Upper
53 100
52 0.0 76.5 114.7#
51 84.5 40.7 61.1#





#16

Acetone

Concen: 231.228 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

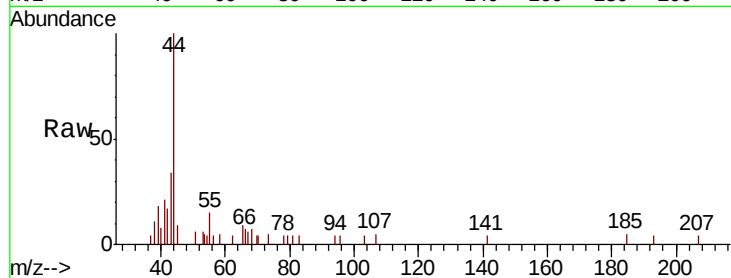
EO-02-112918-A

Tot Ion: 43 Resp: 1304

Ion Ratio Lower Upper

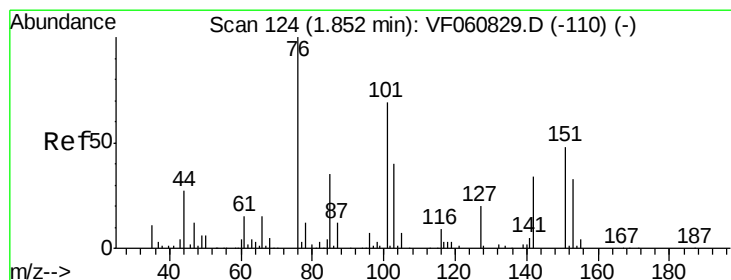
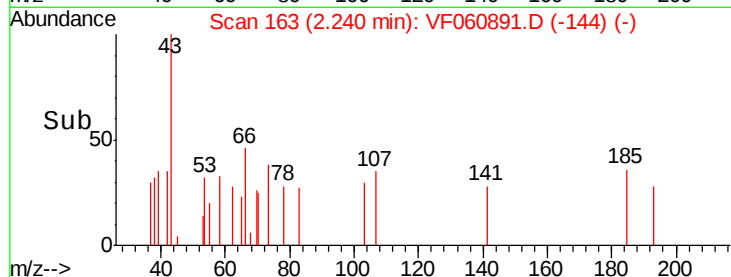
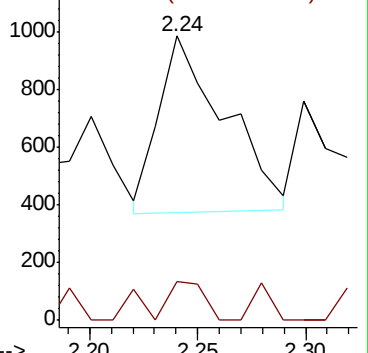
43 100

58 13.4 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#17

Carbon Disulfide

Concen: 1.270 ug/l

RT: 1.76 min Scan# 114

Delta R.T. -0.09 min

Lab File: VF060891.D

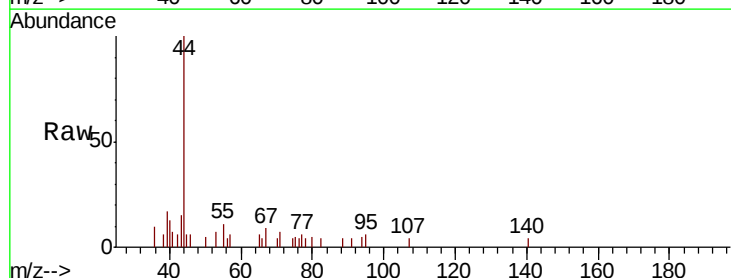
Acq: 3 Dec 2018 15:04

Tgt Ion: 76 Resp: 70

Ion Ratio Lower Upper

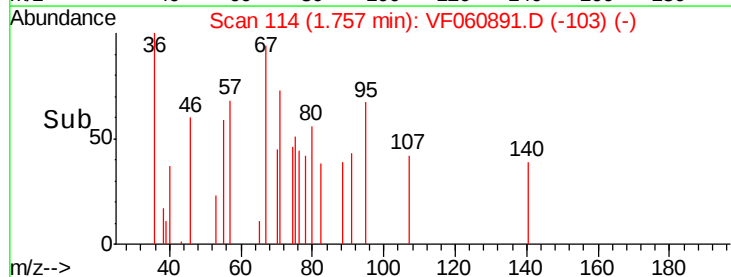
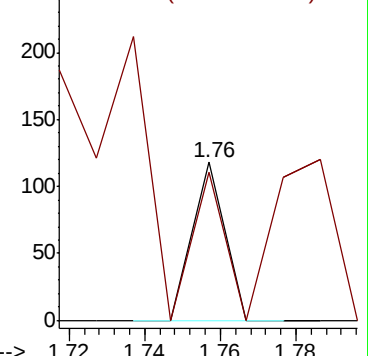
76 100

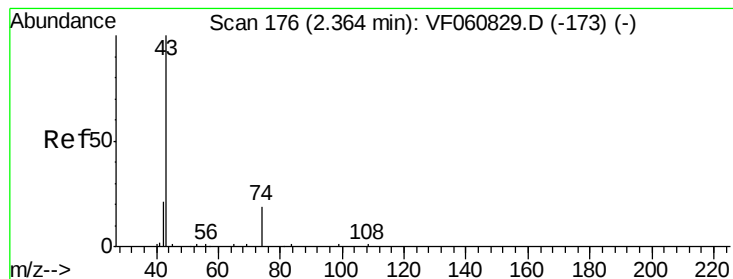
78 94.1 10.2 15.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0





#18

Methyl Acetate

Concen: 119.839 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

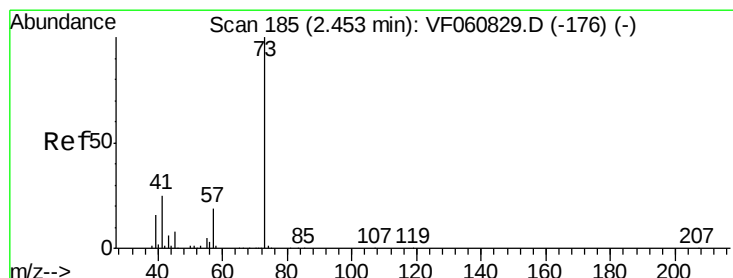
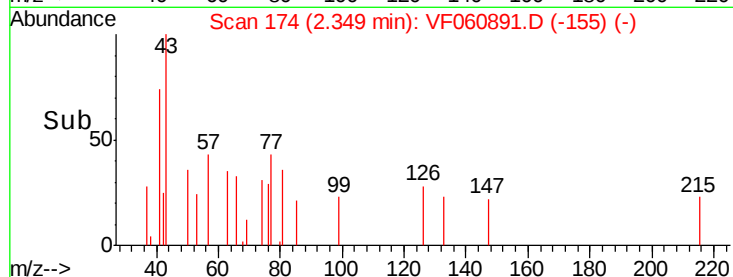
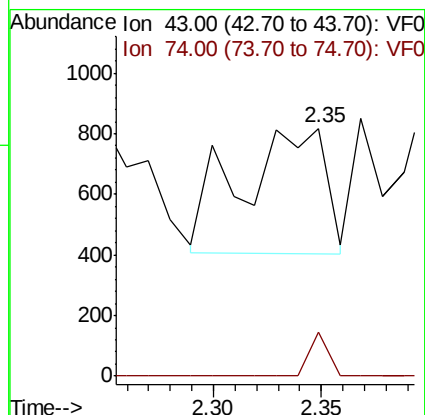
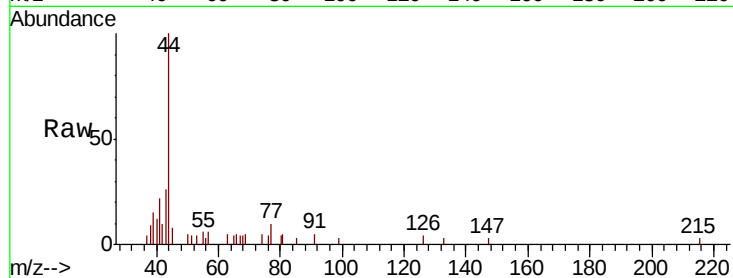
EO-02-112918-A

Tot Ion: 43 Resp: 1112

Ion Ratio Lower Upper

43 100

74 17.7 13.3 19.9



#19

Methyl tert-butyl Ether

Concen: 5.897 ug/l

RT: 2.45 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF060891.D

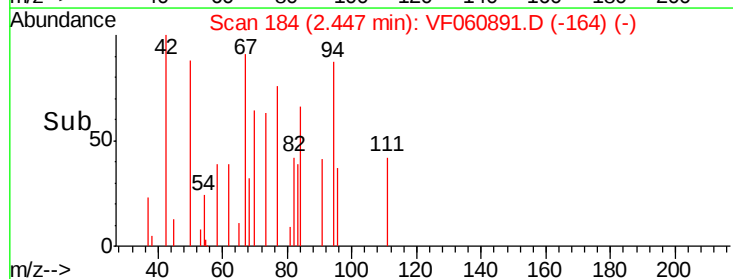
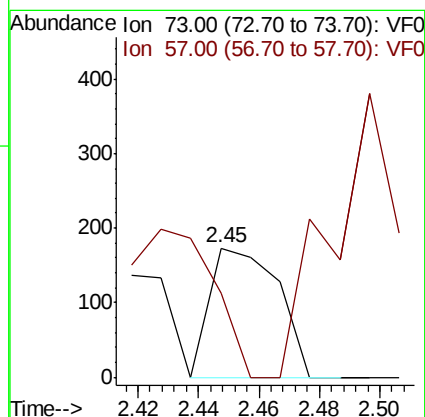
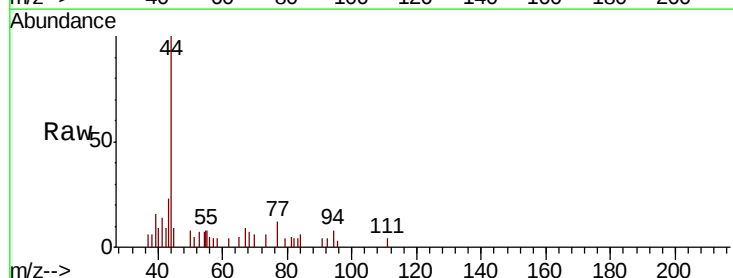
Acq: 3 Dec 2018 15:04

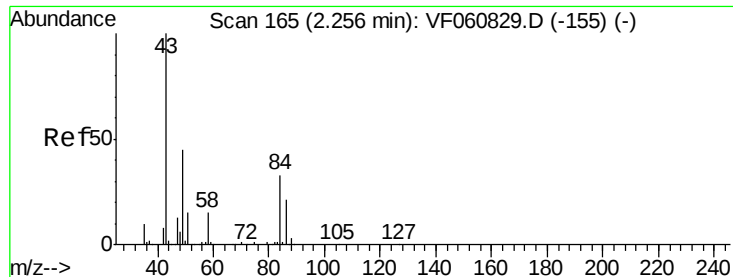
Tgt Ion: 73 Resp: 273

Ion Ratio Lower Upper

73 100

57 64.7 15.3 22.9#

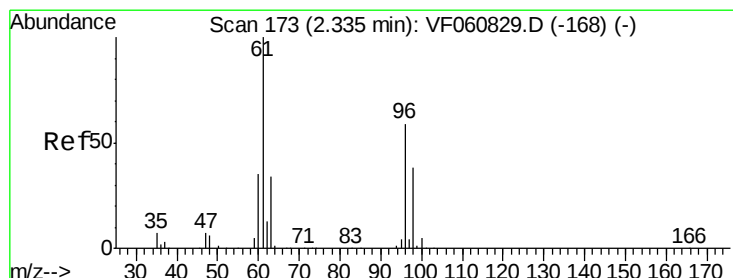
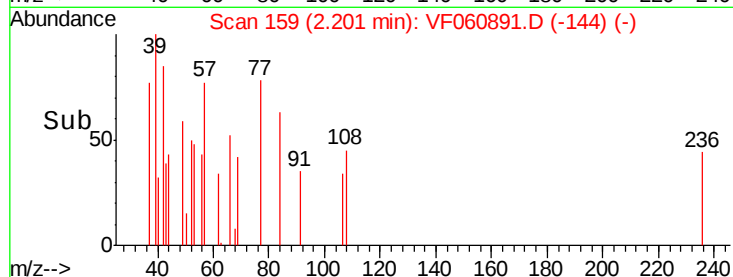
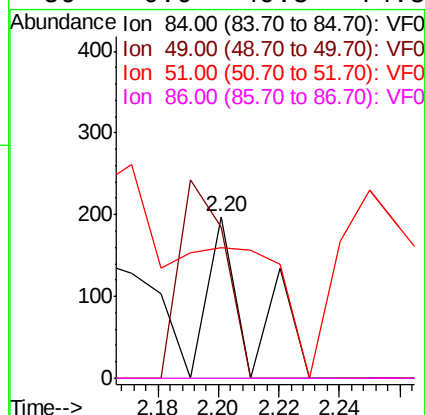
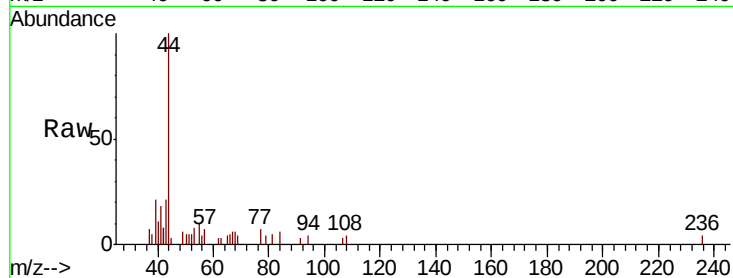




#20
Methvlene Chloride
Concen: 9.522 ug/l
RT: 2.20 min Scan# 159
Delta R.T. -0.06 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

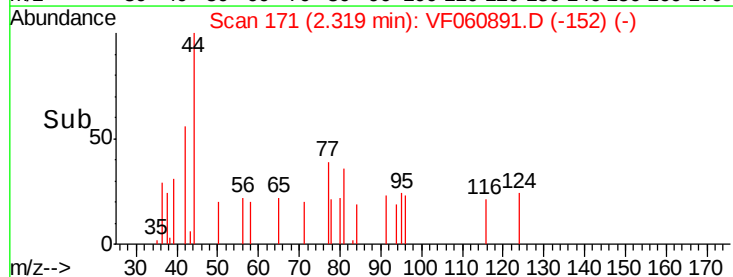
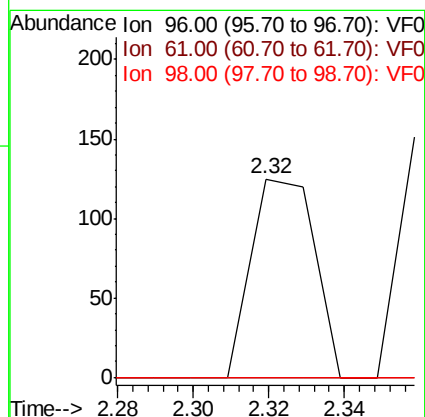
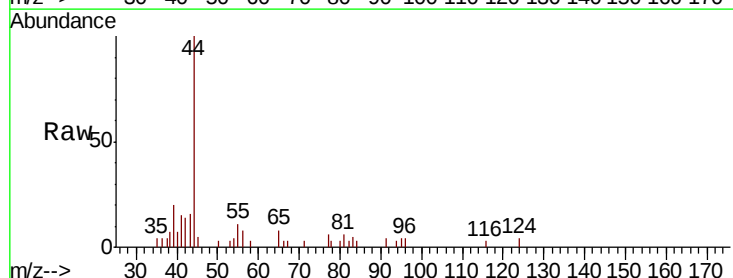
Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

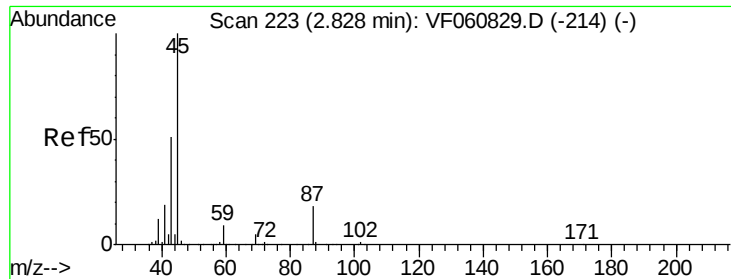
Tot Ion: 84 Resp: 197
Ion Ratio Lower Upper
84 100
49 93.4 111.3 166.9#
51 80.8 38.0 57.0#
86 0.0 49.8 74.8#



#21
trans-1,2-Dichloroethene
Concen: 7.317 ug/l
RT: 2.32 min Scan# 171
Delta R.T. -0.02 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 96 Resp: 145
Ion Ratio Lower Upper
96 100
61 0.0 134.5 201.7#
98 0.0 51.6 77.4#

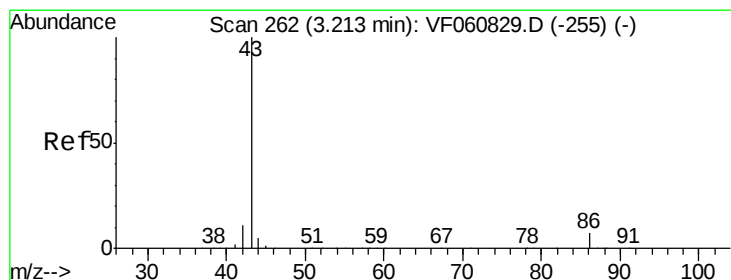
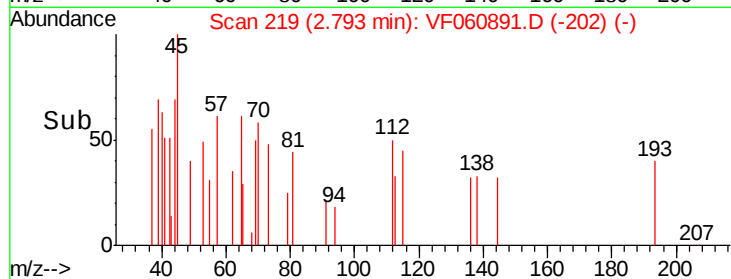
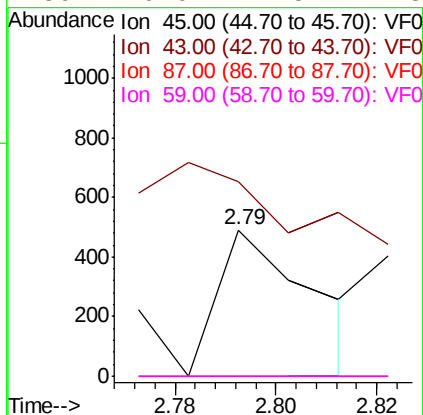
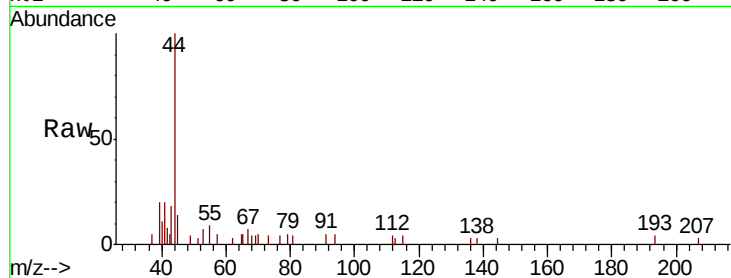




#22
Diisopropyl ether
Concen: 9.062 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.04 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

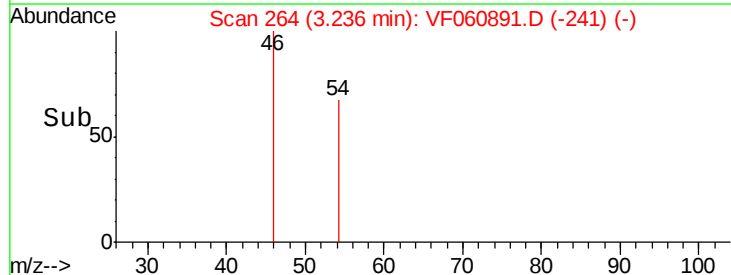
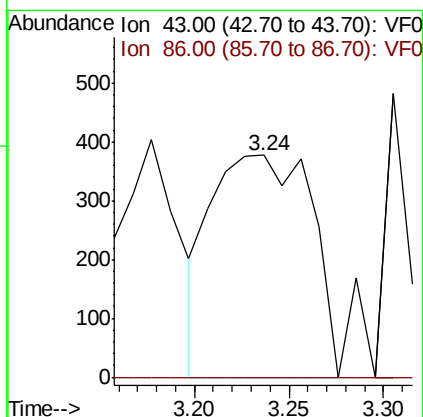
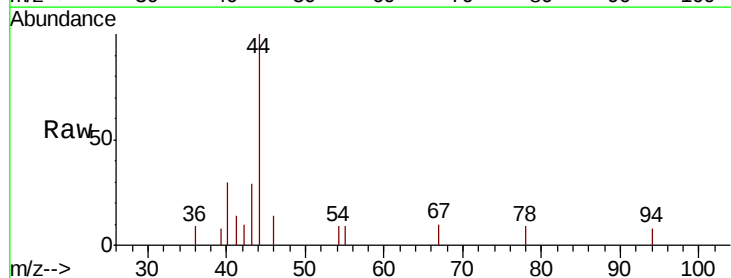
Instrument :
MSVOA_F
ClientSampleID :
EO-02-112918-A

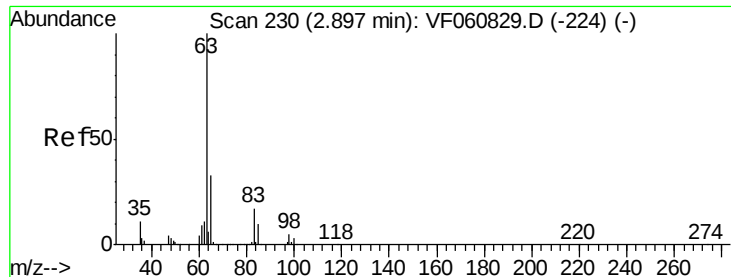
Tot Ion: 45 Resp: 632
Ion Ratio Lower Upper
45 100
43 133.7 41.0 61.6#
87 0.0 14.6 22.0#
59 0.0 7.5 11.3#



#23
Vinyl Acetate
Concen: 43.510 ug/l
RT: 3.24 min Scan# 264
Delta R.T. 0.02 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 43 Resp: 1387
Ion Ratio Lower Upper
43 100
86 0.0 5.4 8.0#





#24

1,1-Dichloroethane

Concen: 3.567 ug/l

RT: 2.92 min Scan# 232

Delta R.T. 0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

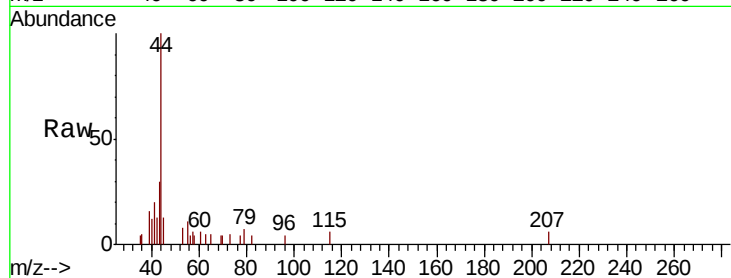
Tot Ion: 63 Resp: 148

Ion Ratio Lower Upper

63 100

98 0.0 2.7 8.1#

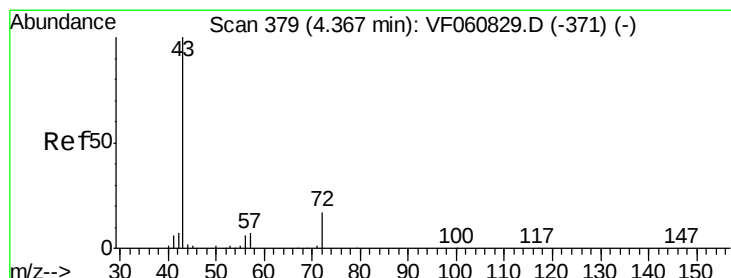
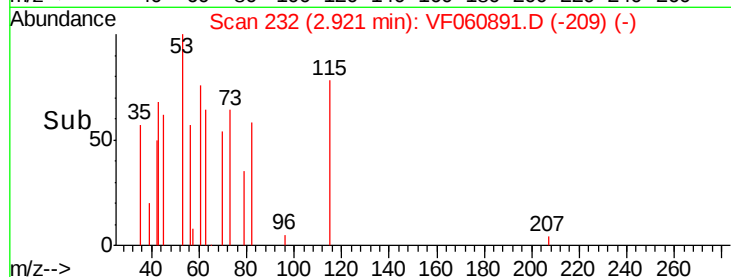
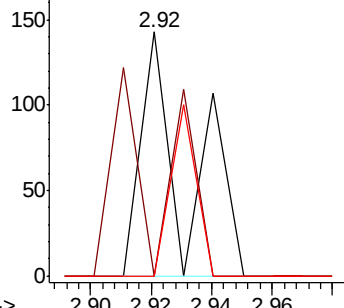
100 0.0 1.5 4.5#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 67.048 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF060891.D

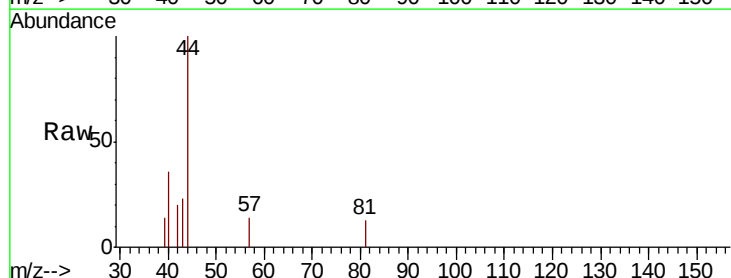
Acq: 3 Dec 2018 15:04

Tgt Ion: 43 Resp: 654

Ion Ratio Lower Upper

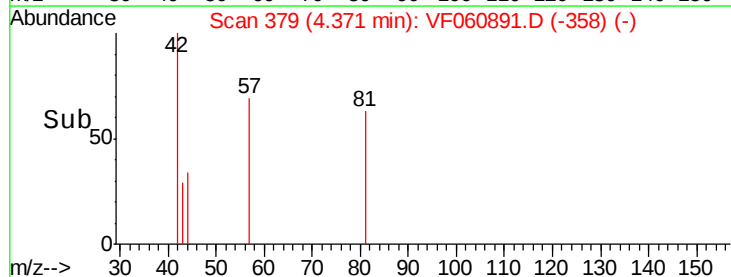
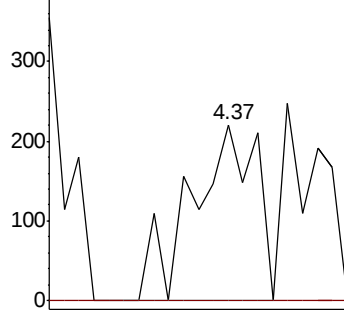
43 100

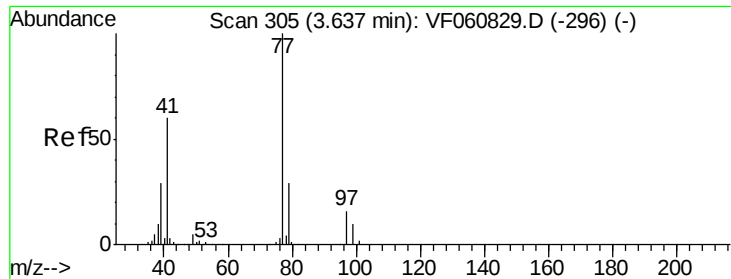
72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 2.788 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.07 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

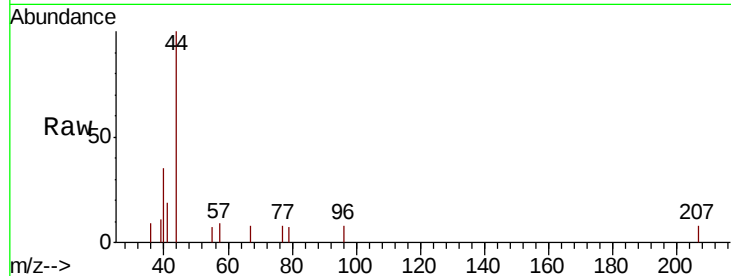
EO-02-112918-A

Tot Ion: 77 Resp: 75

Ion Ratio Lower Upper

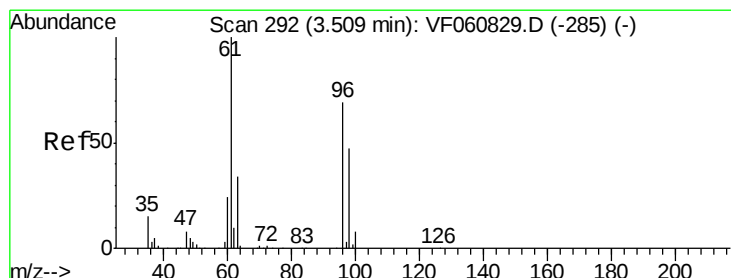
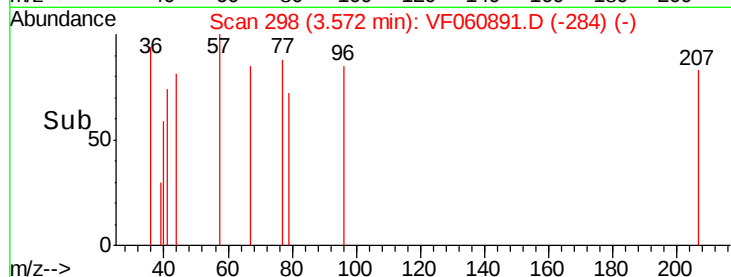
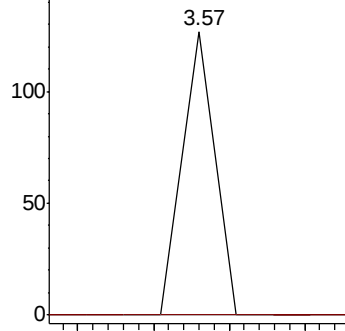
77 100

97 0.0 8.6 25.8#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 1.860 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.03 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

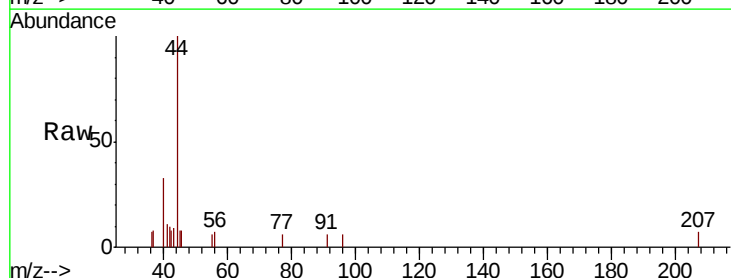
Tgt Ion: 96 Resp: 60

Ion Ratio Lower Upper

96 100

61 0.0 0.0 290.6

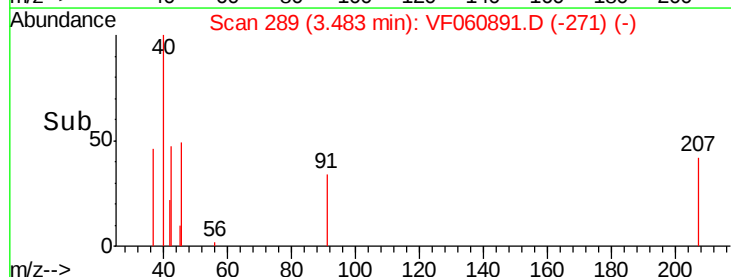
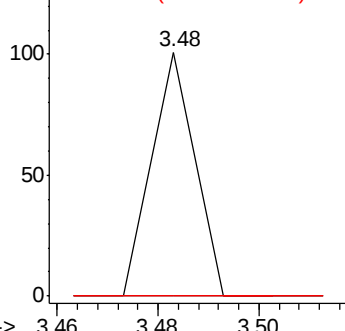
98 0.0 0.0 137.8

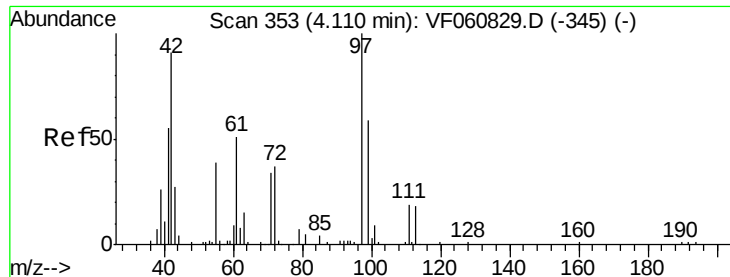


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#29

Tetrahydrofuran

Concen: 22.009 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

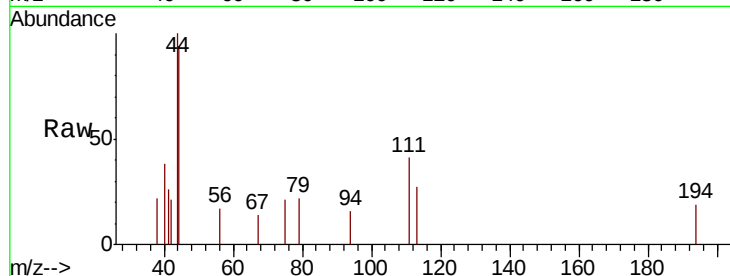
Tot Ion: 42 Resp: 91

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 28.7 43.1#



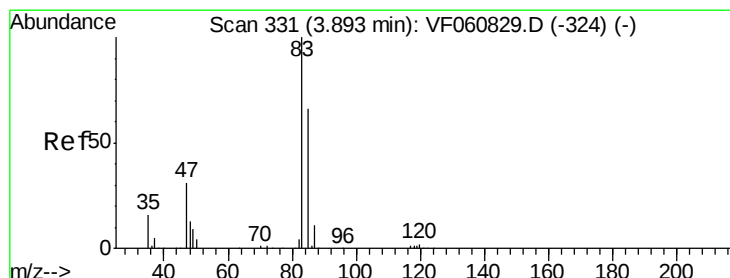
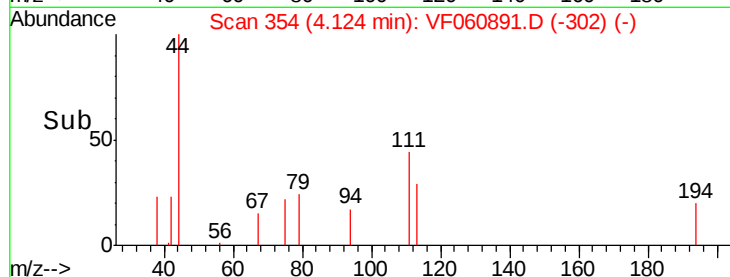
Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

4.12

100

50

Time--> 4.10 4.12 4.14



#30

Chloroform

Concen: 1.018 ug/l

RT: 4.01 min Scan# 342

Delta R.T. 0.11 min

Lab File: VF060891.D

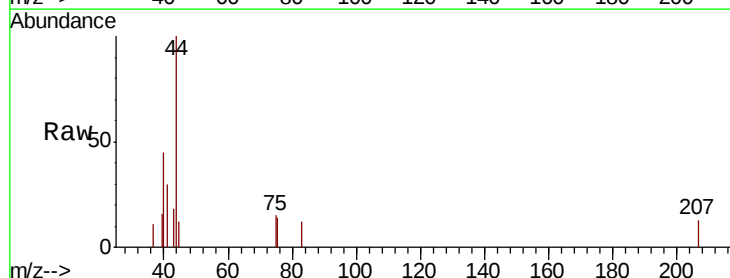
Acq: 3 Dec 2018 15:04

Tgt Ion: 83 Resp: 65

Ion Ratio Lower Upper

83 100

85 0.0 53.4 80.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

4.01

120

100

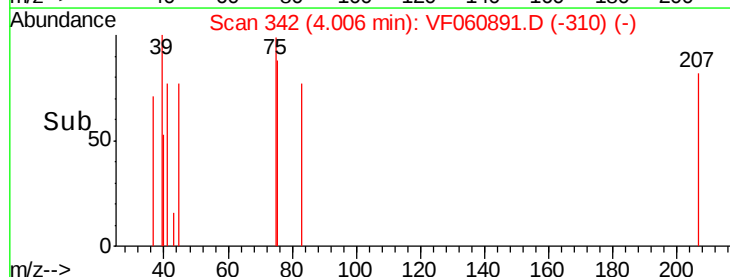
80

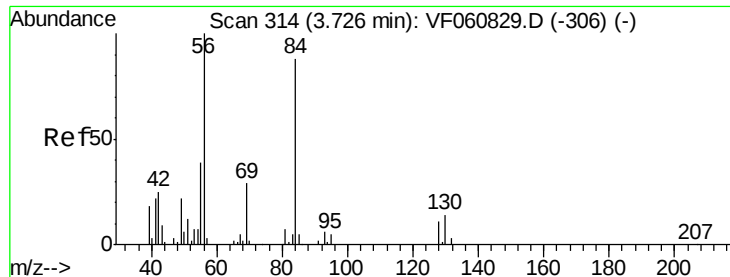
60

40

20

Time--> 3.98 4.00 4.02

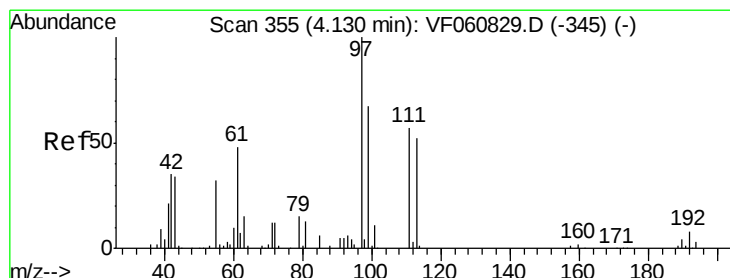
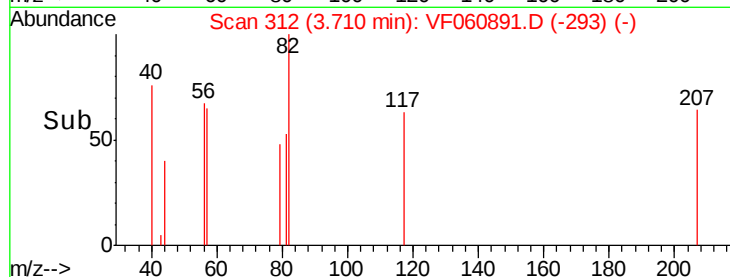
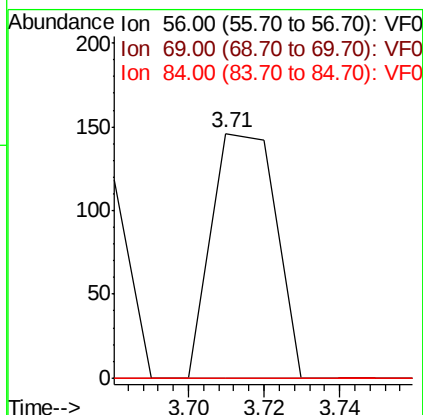
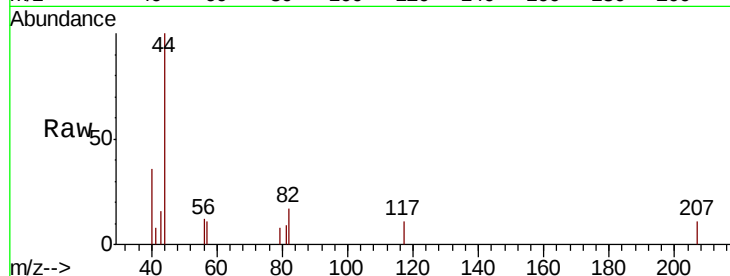




#31
Cvclohexane
Concen: 3.948 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.02 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

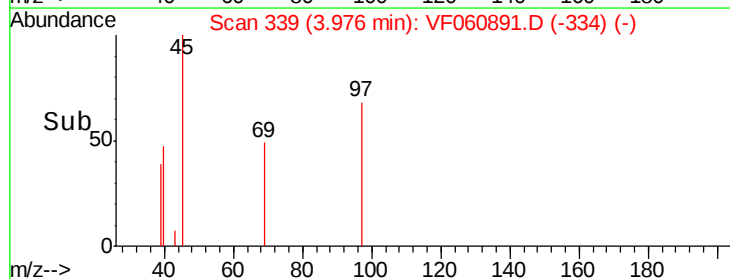
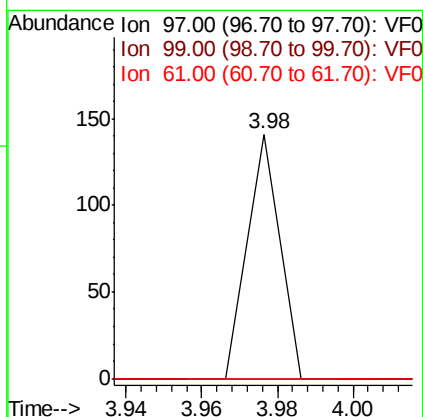
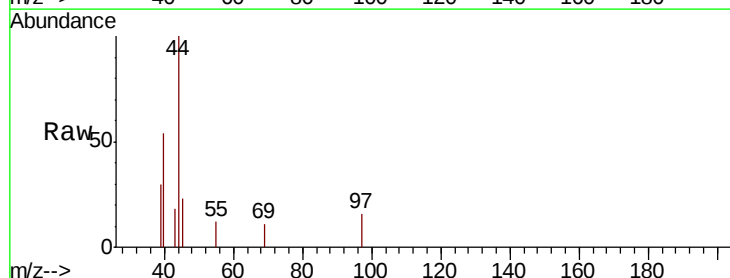
Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

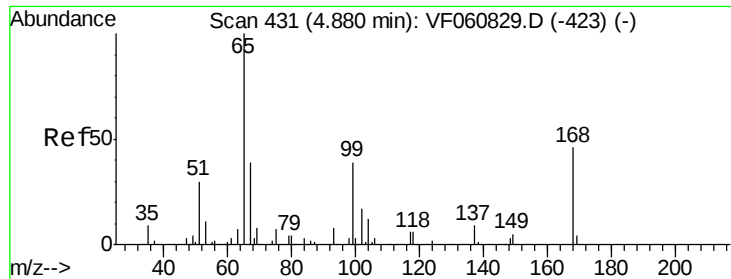
Tot Ion: 56 Resp: 170
Ion Ratio Lower Upper
56 100
69 0.0 23.0 34.4#
84 0.0 70.4 105.6#



#32
1,1,1-Trichloroethane
Concen: 1.874 ug/l
RT: 3.98 min Scan# 339
Delta R.T. -0.15 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 97 Resp: 83
Ion Ratio Lower Upper
97 100
99 0.0 53.5 80.3#
61 0.0 38.6 58.0#





#33

1,2-Dichloroethane-d4

Concen: 18.802 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

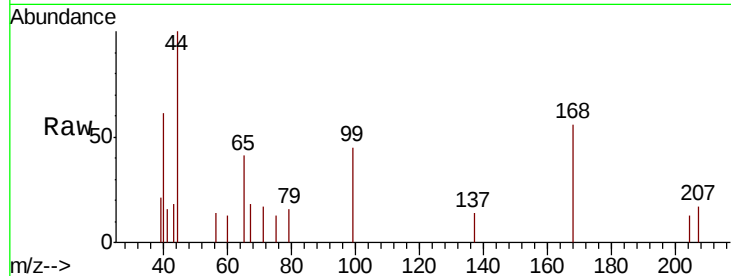
EO-02-112918-A

Tot Ion: 65 Resp: 575

Ion Ratio Lower Upper

65 100

67 42.3 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.87

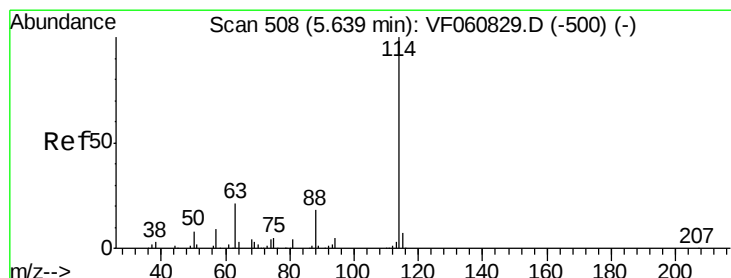
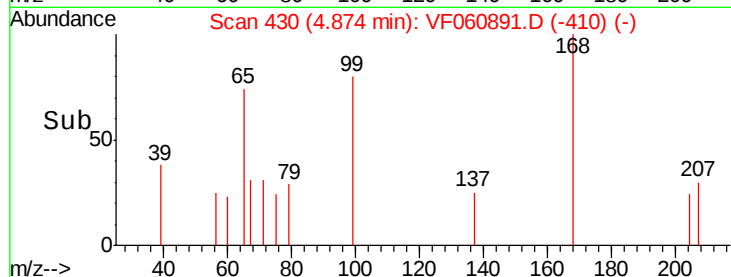
300

200

100

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

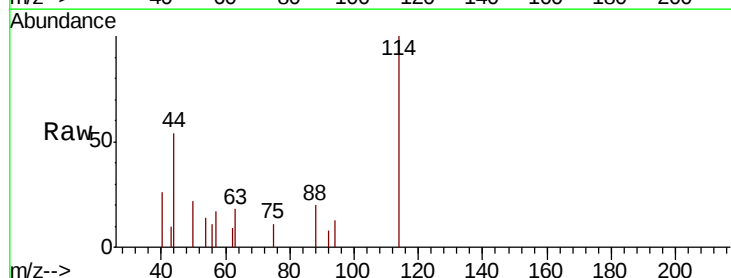
Tgt Ion: 114 Resp: 3155

Ion Ratio Lower Upper

114 100

63 18.3 0.0 41.6

88 20.0 0.0 36.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

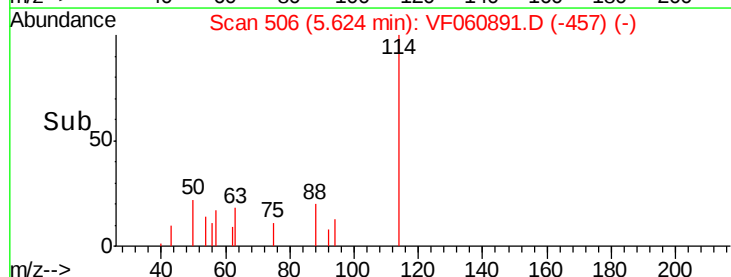
1500

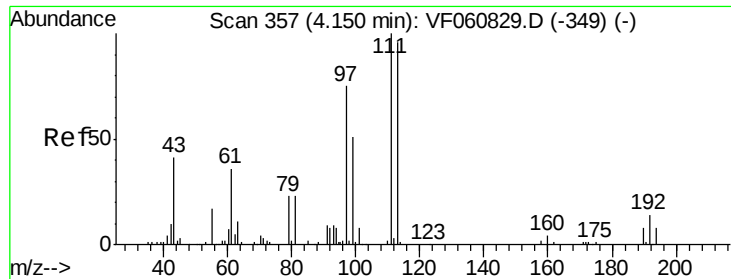
1000

500

0

Time-->





#35

Dibromofluoromethane

Concen: 25.570 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

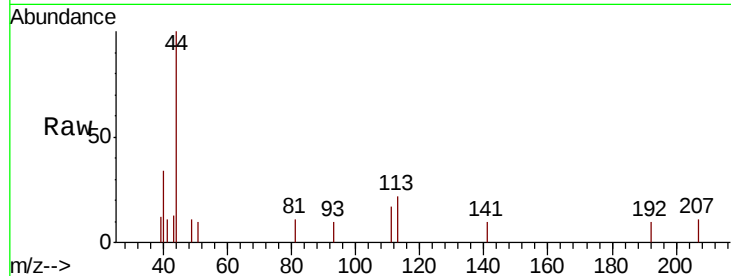
Tot Ion:113 Resp: 640

Ion Ratio Lower Upper

113 100

111 78.6 83.0 124.6#

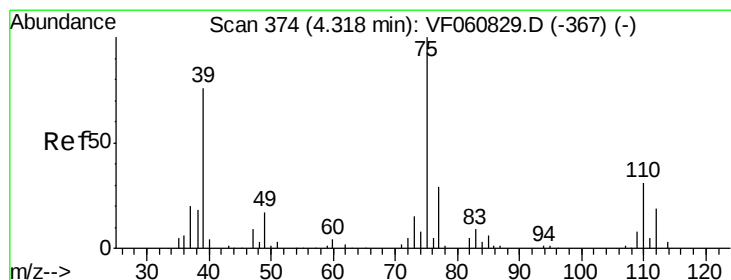
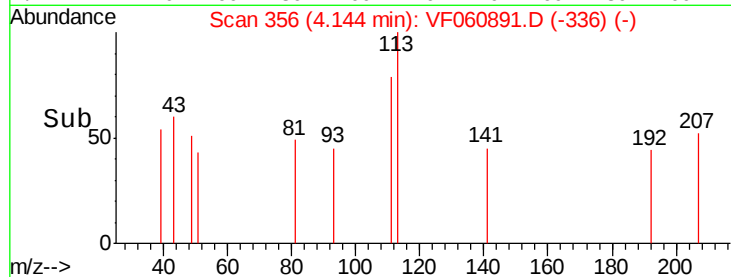
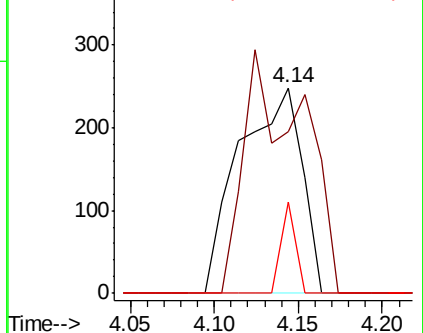
192 44.4 12.3 18.5#



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



#36

1,1-Dichloropropene

Concen: 1.800 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

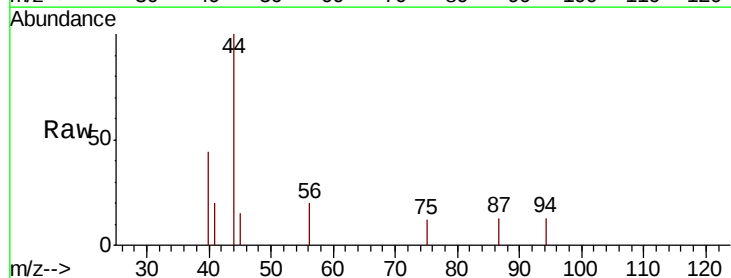
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

110 0.0 15.6 46.8#

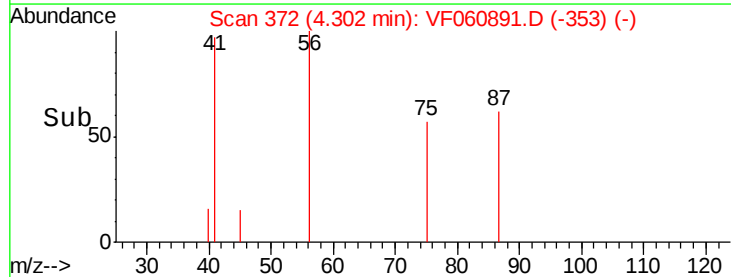
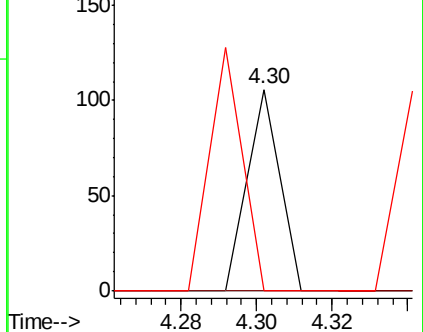
77 0.0 23.4 35.0#

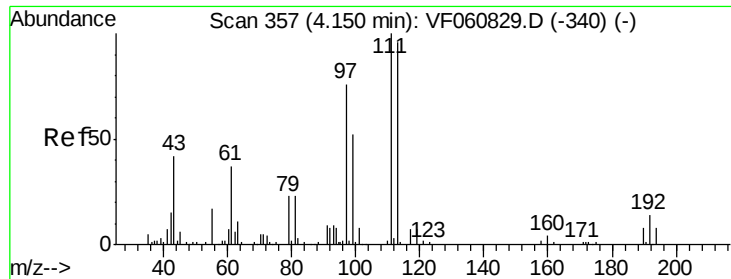


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

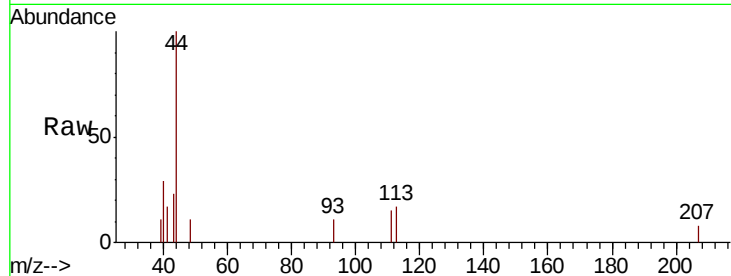




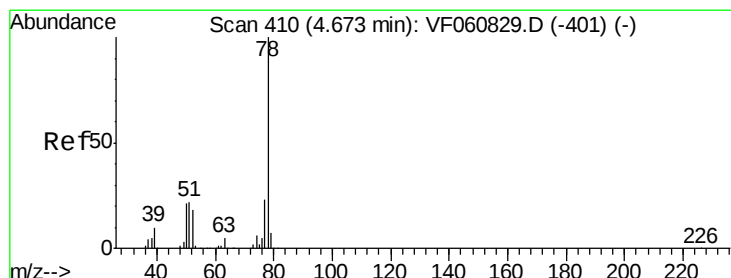
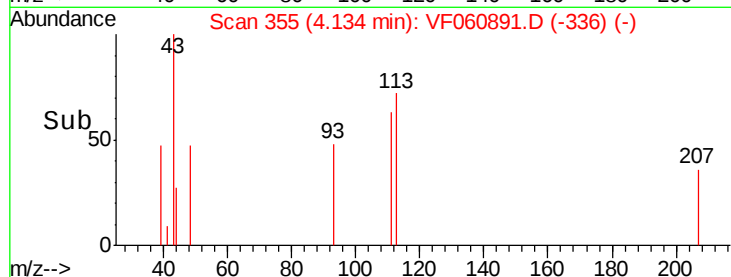
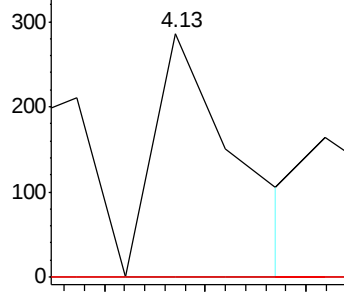
#37
Ethyl Acetate
Concen: 22.502 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

Tot Ion: 43 Resp: 320
Ion Ratio Lower Upper
43 100
61 0.0 68.6 103.0#
70 0.0 9.0 13.4#

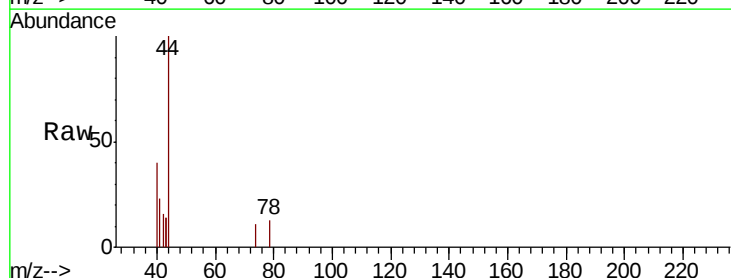


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

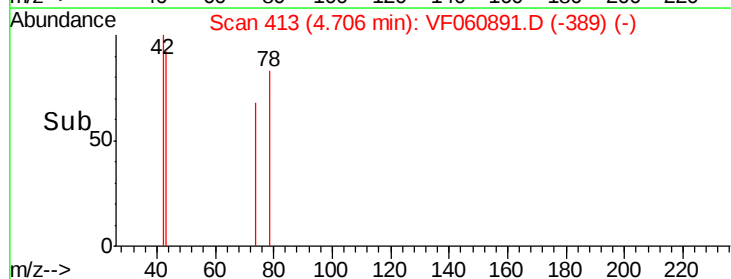
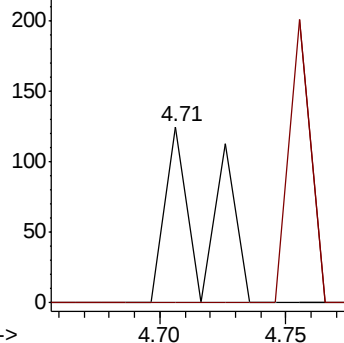


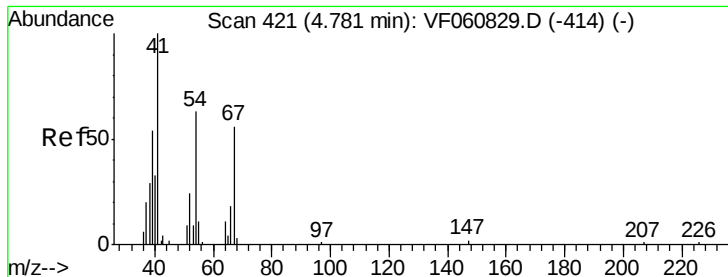
#40
Benzene
Concen: 1.824 ug/l
RT: 4.71 min Scan# 413
Delta R.T. 0.03 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 78 Resp: 141
Ion Ratio Lower Upper
78 100
77 0.0 18.7 28.1#



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

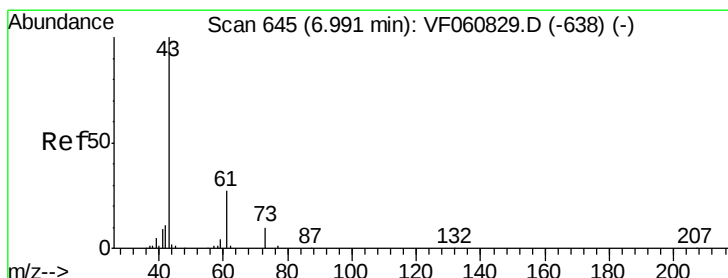
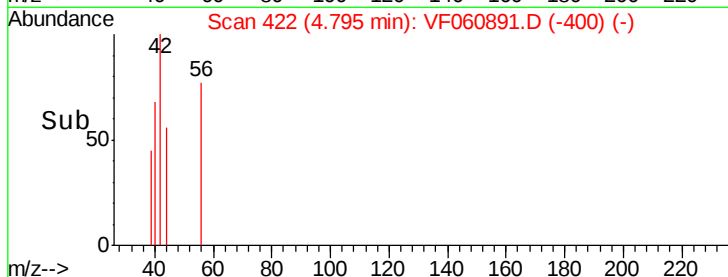
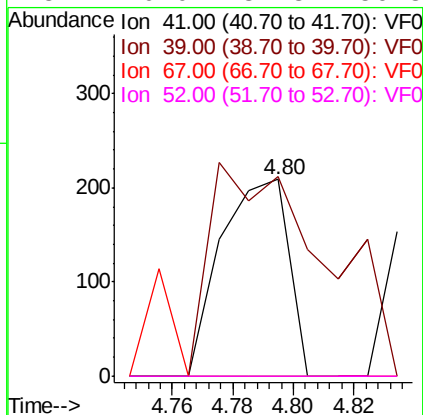
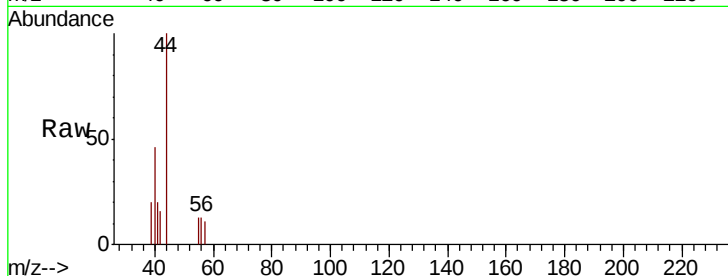




#41
Methacrylonitrile
Concen: 43.795 ug/l
RT: 4.80 min Scan# 422
Delta R.T. 0.01 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

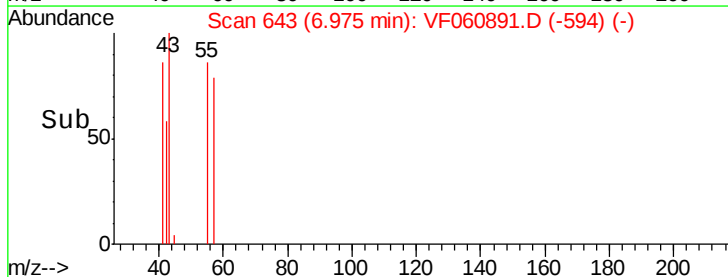
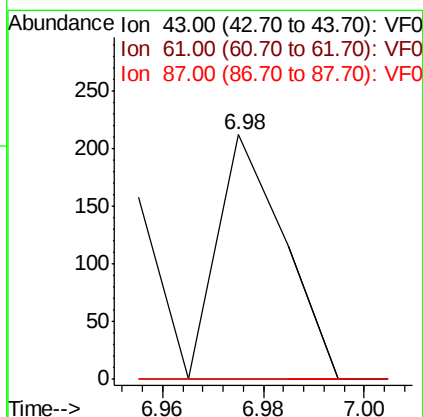
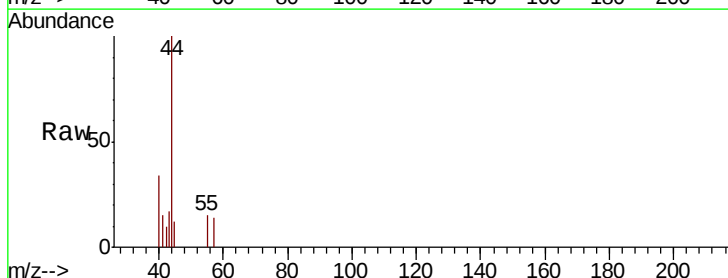
Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

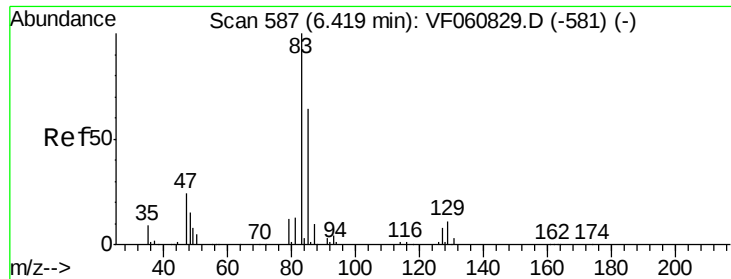
Tot Ion: 41 Resp: 326
Ion Ratio Lower Upper
41 100
39 101.4 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: 8.817 ug/l
RT: 6.98 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 43 Resp: 194
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#47

Bromodichloromethane

Concen: 1.935 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

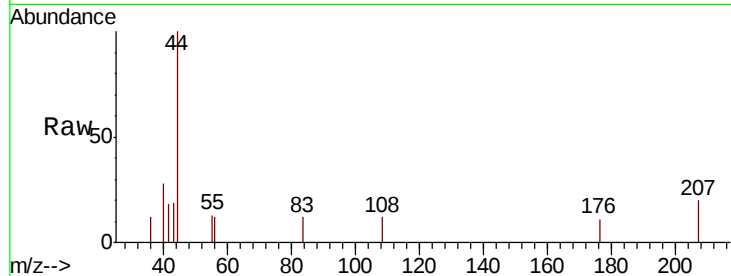
Tot Ion: 83 Resp: 70

Ion Ratio Lower Upper

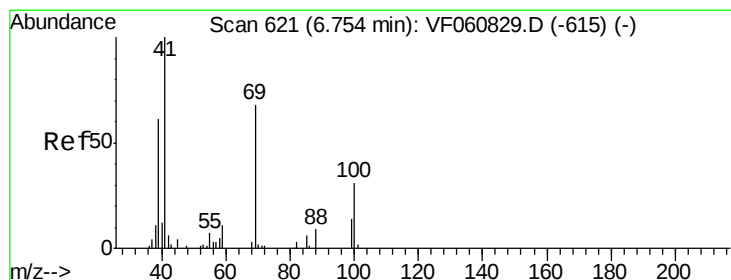
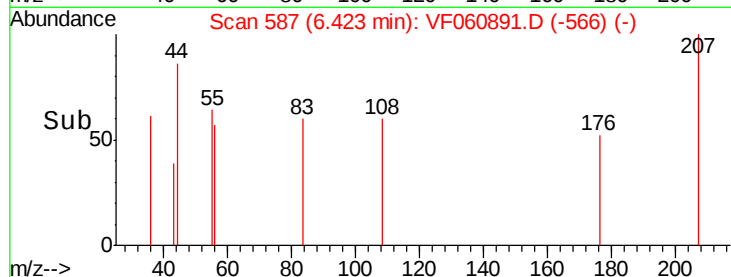
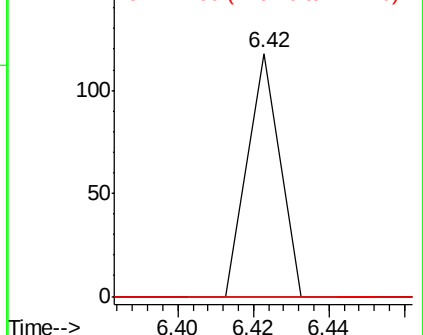
83 100

85 0.0 51.1 76.7#

127 0.0 6.8 10.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 13.051 ug/l

RT: 6.78 min Scan# 623

Delta R.T. 0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

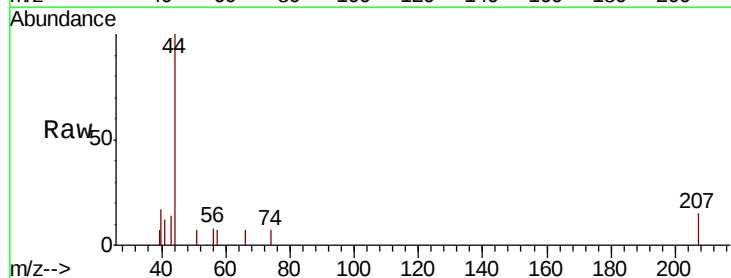
Tgt Ion: 41 Resp: 168

Ion Ratio Lower Upper

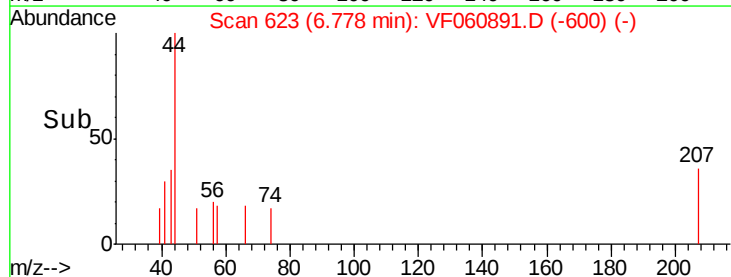
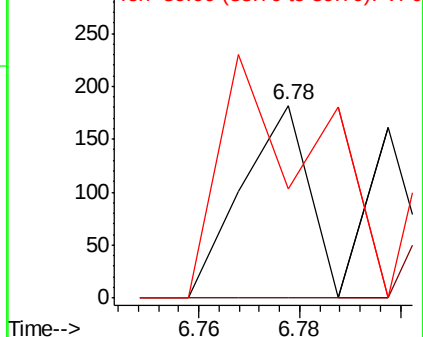
41 100

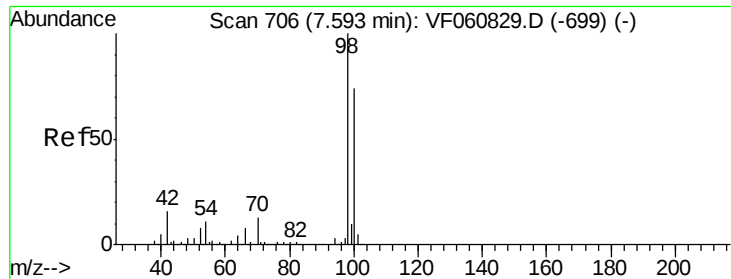
69 0.0 53.9 80.9#

39 56.6 49.0 73.6



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 36.092 ug/l

RT: 7.58 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

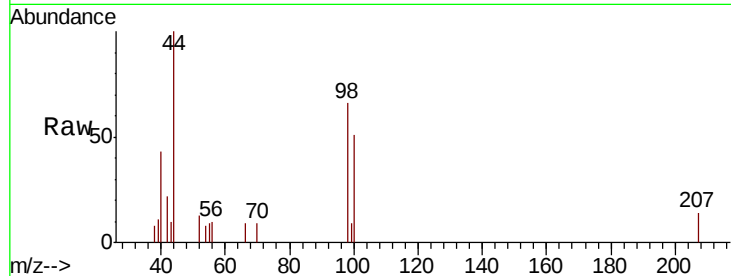
EO-02-112918-A

Tot Ion: 98 Resp: 2661

Ion Ratio Lower Upper

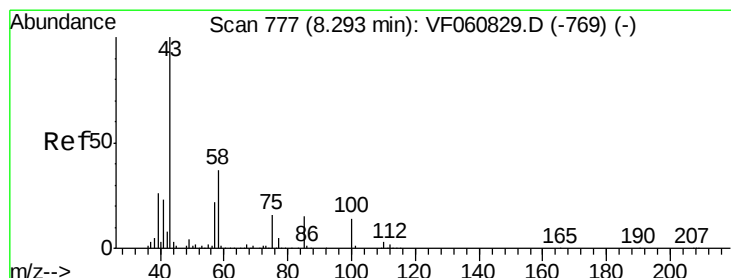
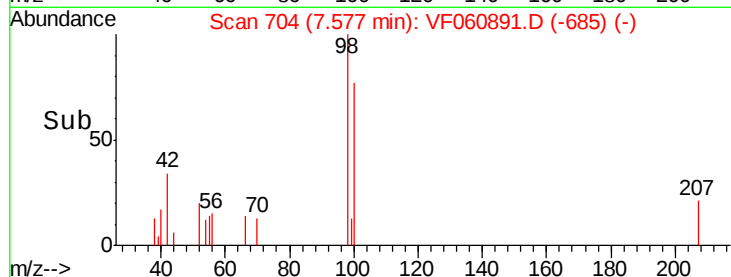
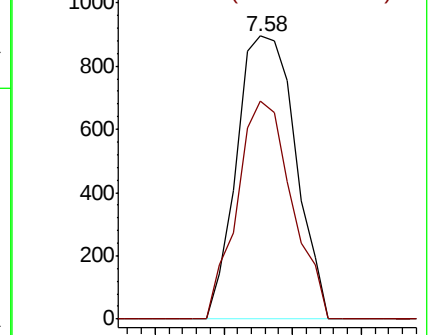
98 100

100 77.0 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 20.360 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060891.D

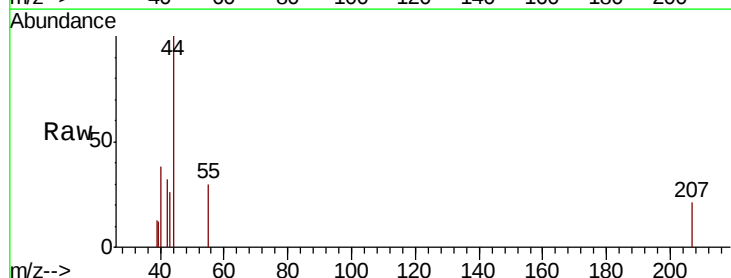
Acq: 3 Dec 2018 15:04

Tgt Ion: 43 Resp: 267

Ion Ratio Lower Upper

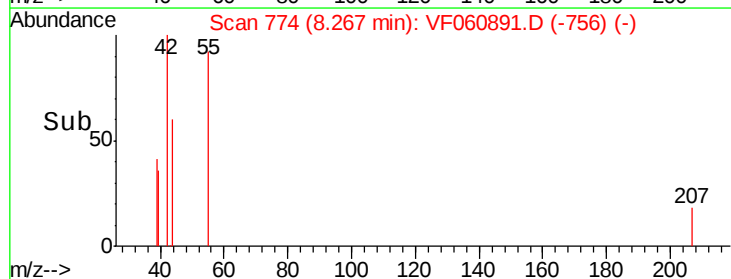
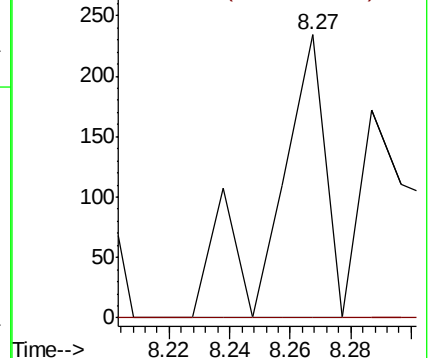
43 100

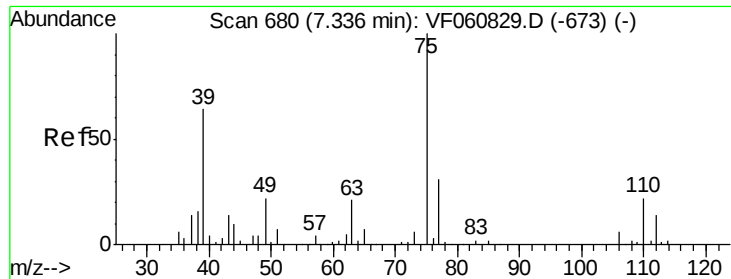
58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 2.004 ug/l

RT: 7.43 min Scan# 689

Delta R.T. 0.09 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

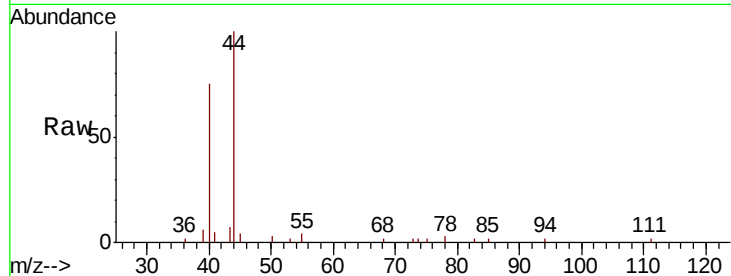
Tot Ion: 75 Resp: 73

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

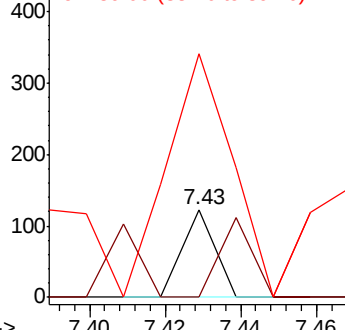
39 277.2 51.1 76.7#



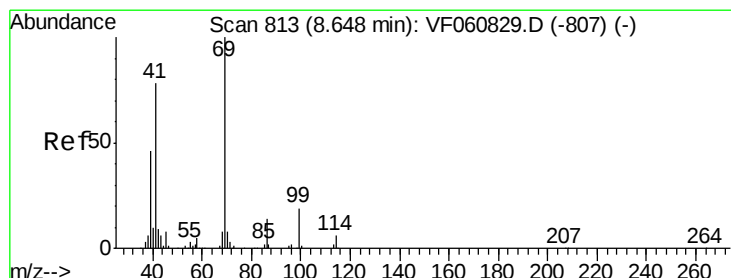
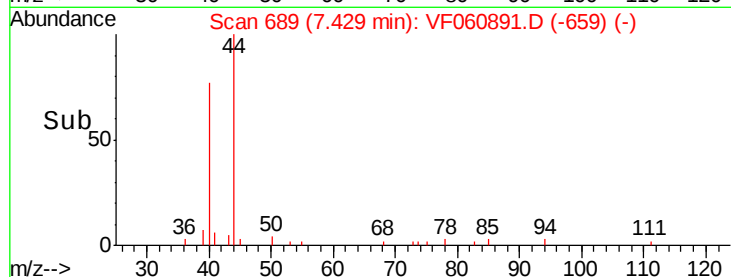
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#56

Ethyl methacrylate

Concen: 8.477 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.03 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

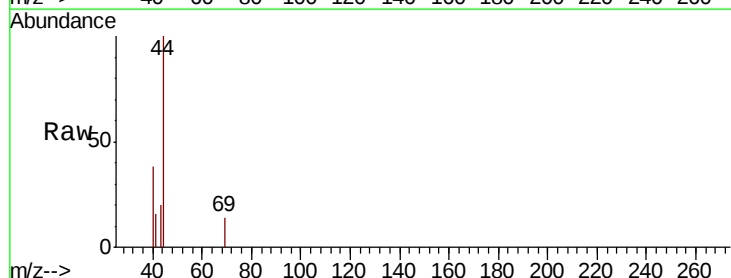
Tgt Ion: 69 Resp: 149

Ion Ratio Lower Upper

69 100

41 109.4 62.6 94.0#

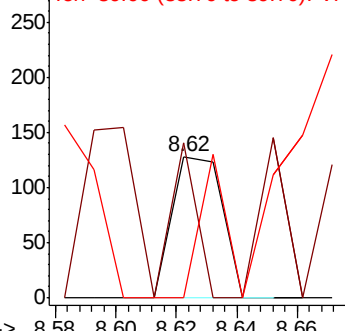
39 0.0 37.8 56.6#



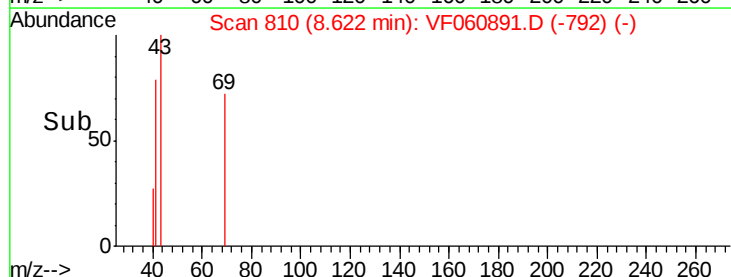
Abundance Ion 69.00 (68.70 to 69.70): VF0

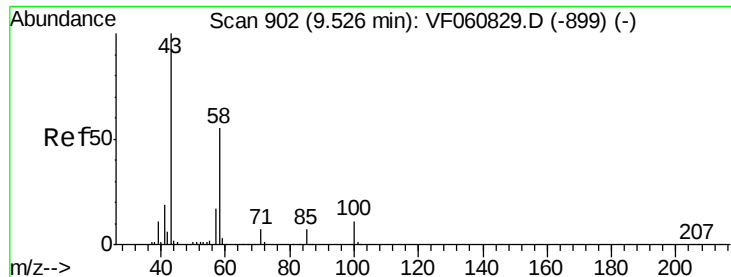
Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->

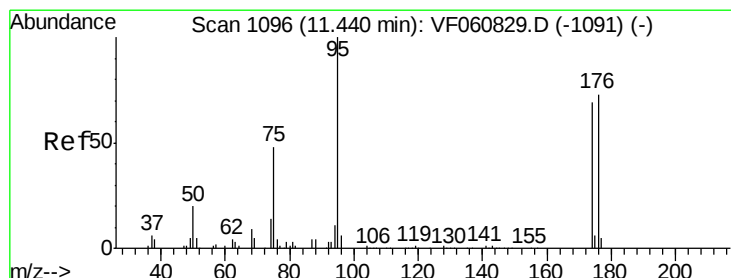
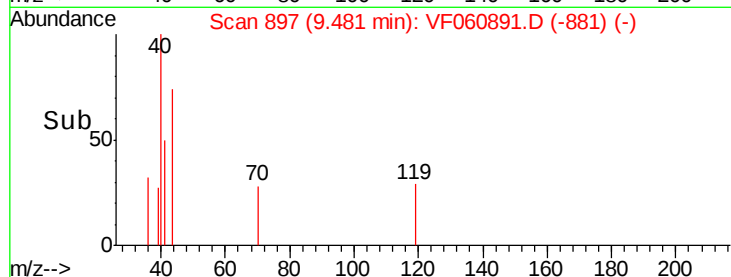
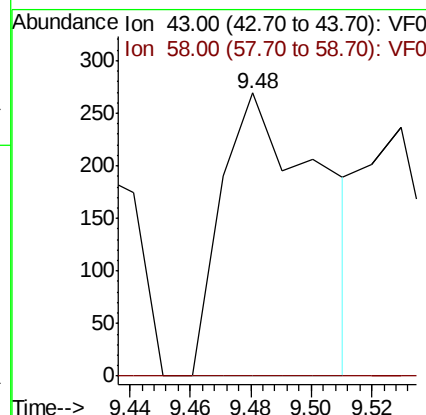
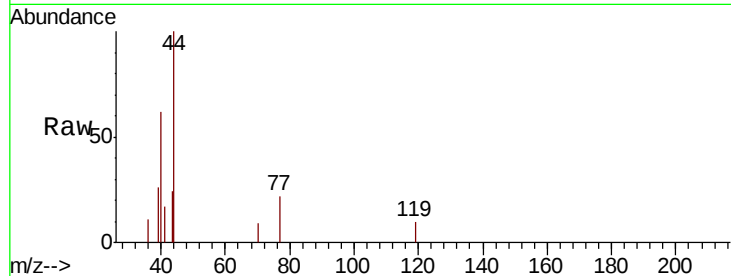




#59
2-Hexanone
Concen: 67.499 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

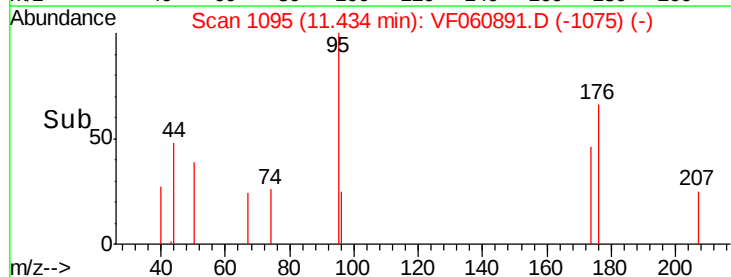
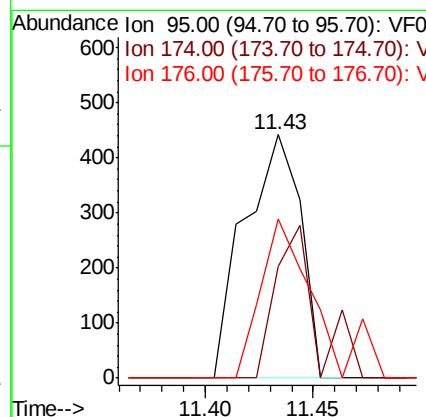
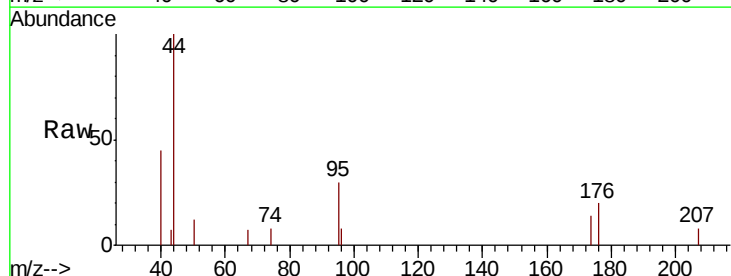
Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

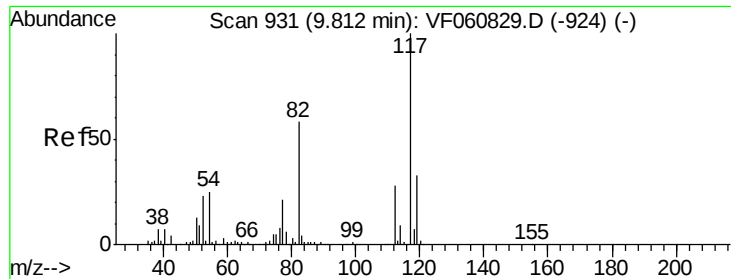
Tot Ion: 43 Resp: 621
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 23.785 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion: 95 Resp: 797
Ion Ratio Lower Upper
95 100
174 46.2 0.0 138.2
176 65.6 0.0 146.2

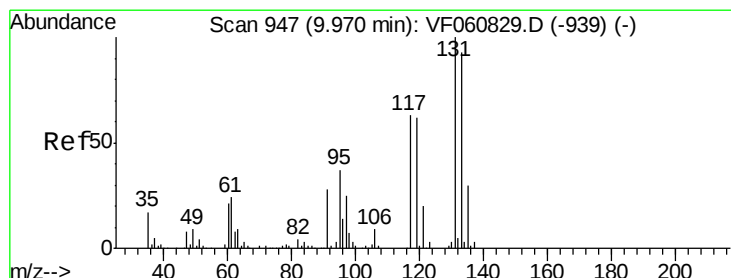
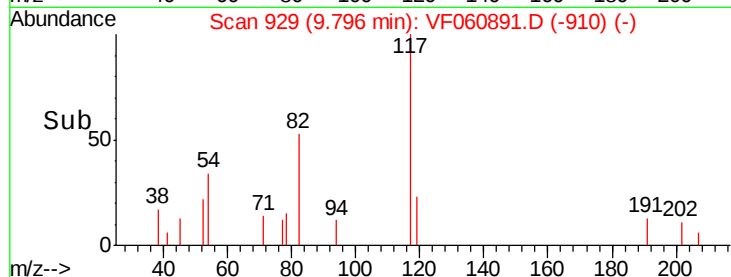
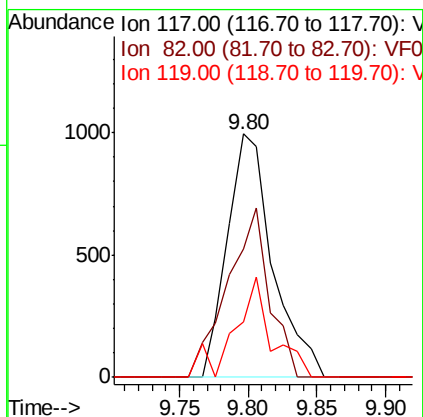
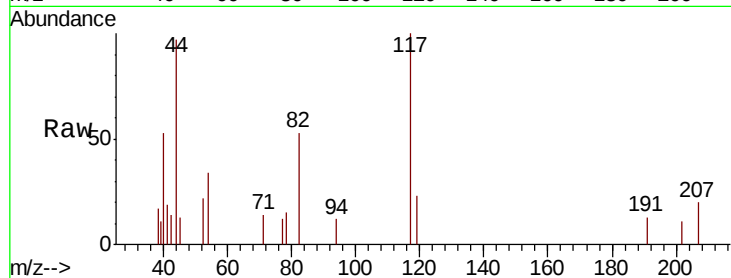




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

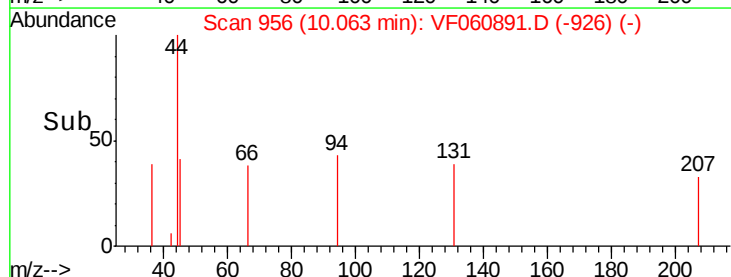
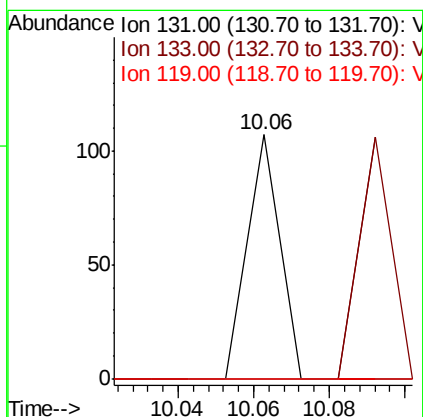
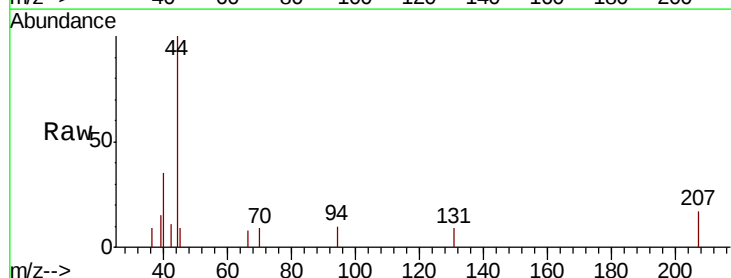
Instrument :
MSVOA_F
ClientSampleId :
EO-02-112918-A

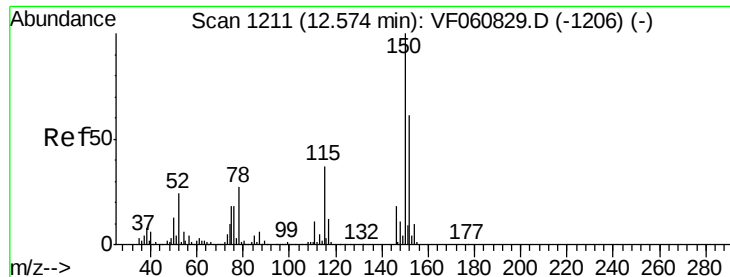
Tot Ion:117 Resp: 2287
Ion Ratio Lower Upper
117 100
82 52.5 46.6 69.8
119 22.7 26.4 39.6#



#66
1,1,1,2-Tetrachloroethane
Concen: 3.294 ug/l
RT: 10.06 min Scan# 956
Delta R.T. 0.09 min
Lab File: VF060891.D
Acq: 3 Dec 2018 15:04

Tgt Ion:131 Resp: 63
Ion Ratio Lower Upper
131 100
133 0.0 46.5 139.3#
119 0.0 31.1 93.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

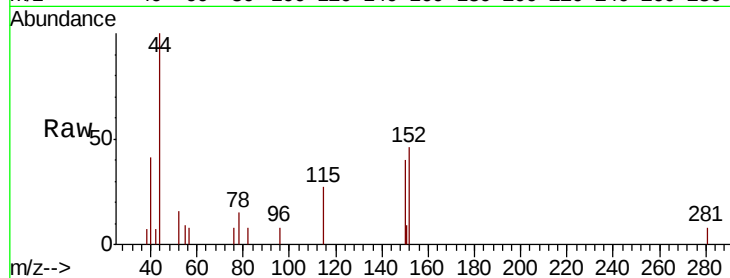
Tot Ion:152 Resp: 879

Ion Ratio Lower Upper

152 100

115 58.0 30.1 90.5

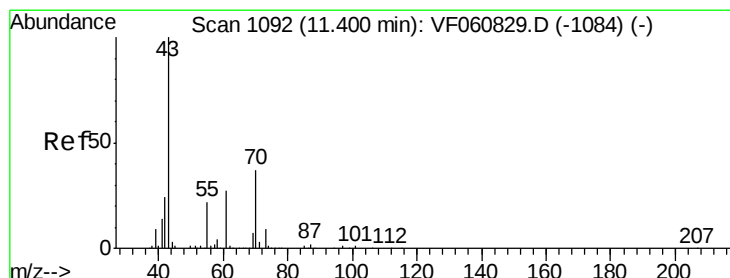
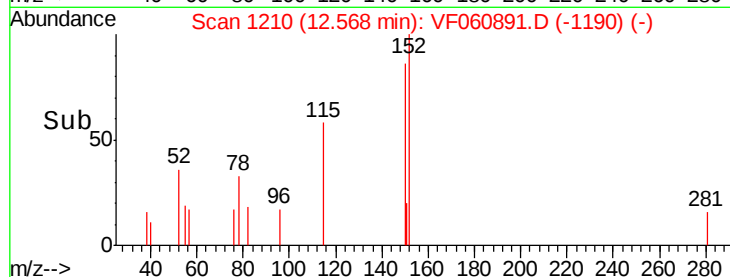
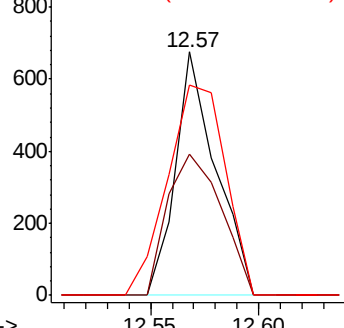
150 86.4 0.0 327.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 19.015 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Tgt Ion: 43 Resp: 305

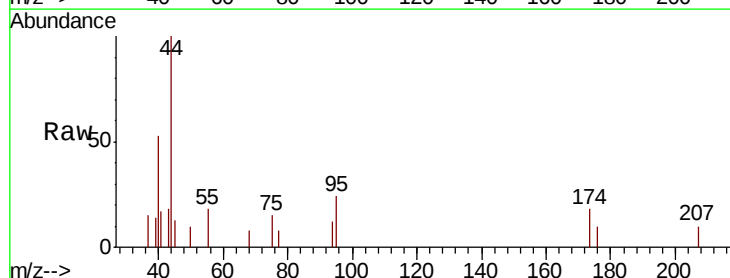
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 96.2 17.2 25.8#

61 0.0 21.8 32.6#

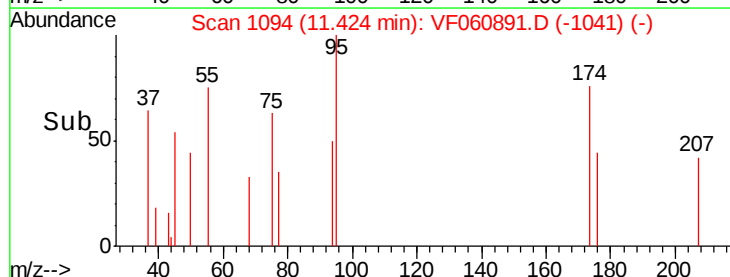
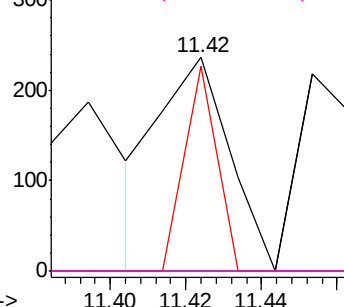


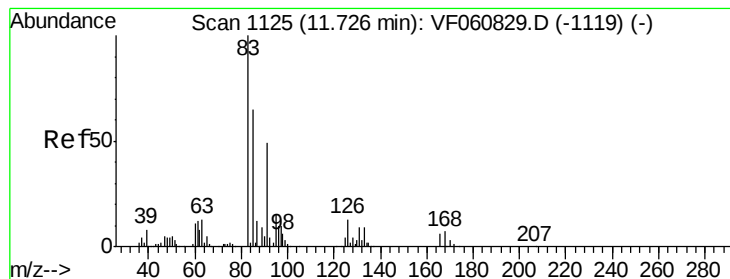
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 6.648 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.14 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

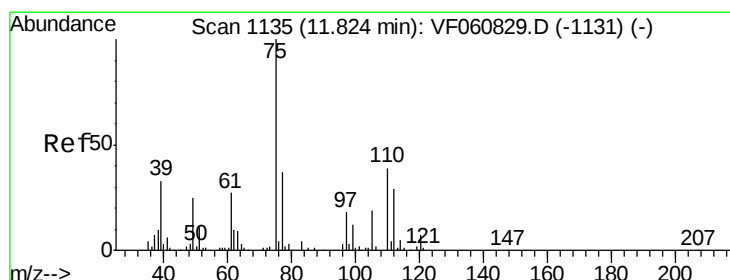
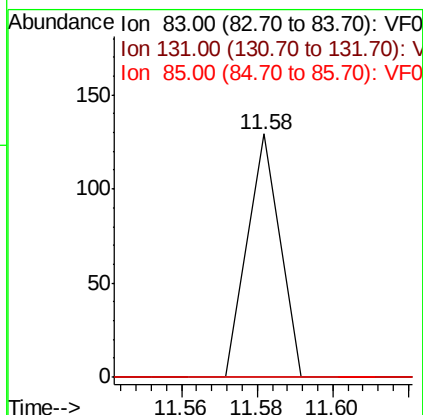
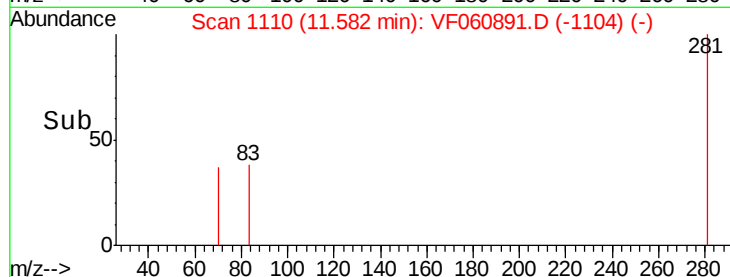
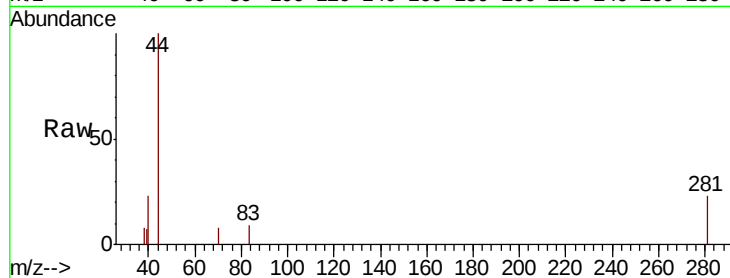
Tot Ion: 83 Resp: 76

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 0.0 32.6 97.8#



#76

1,2,3-Trichloropropane

Concen: 7.461 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF060891.D

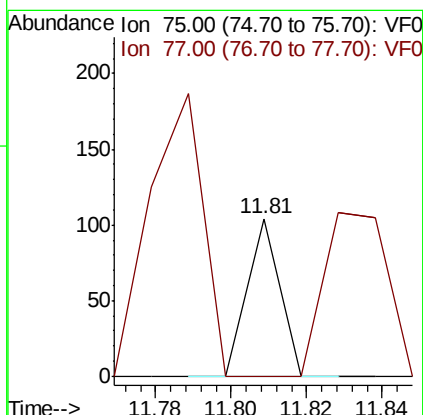
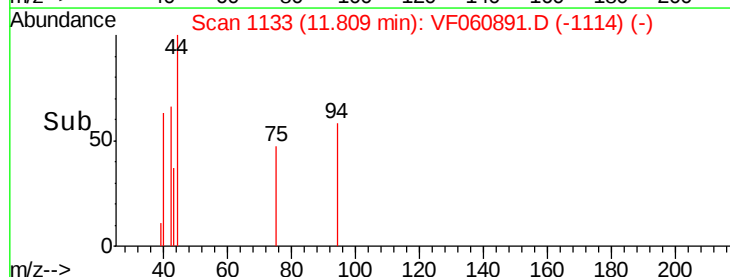
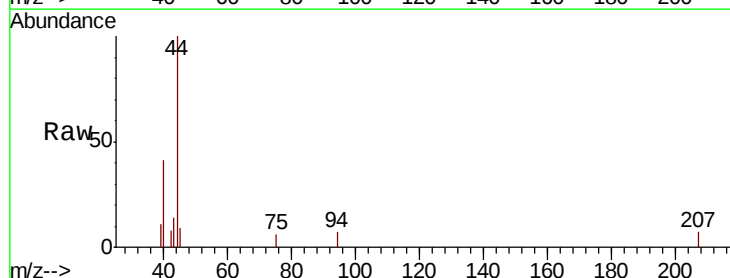
Acq: 3 Dec 2018 15:04

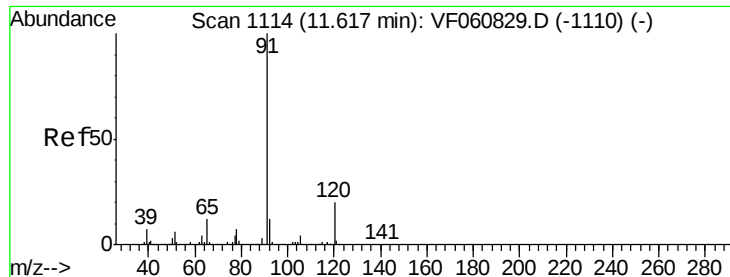
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 18.4 55.4#





#78

n-propylbenzene

Concen: 1.008 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

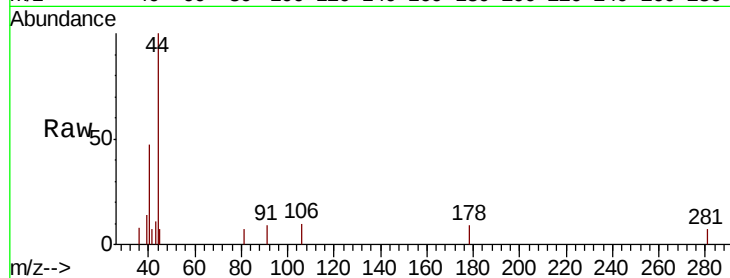
EO-02-112918-A

Tot Ion: 91 Resp: 82

Ion Ratio Lower Upper

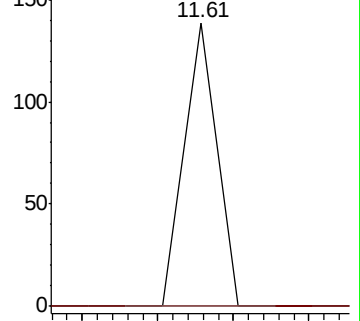
91 100

120 0.0 10.3 30.8#

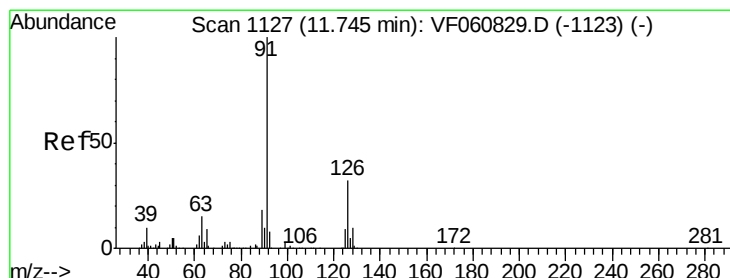
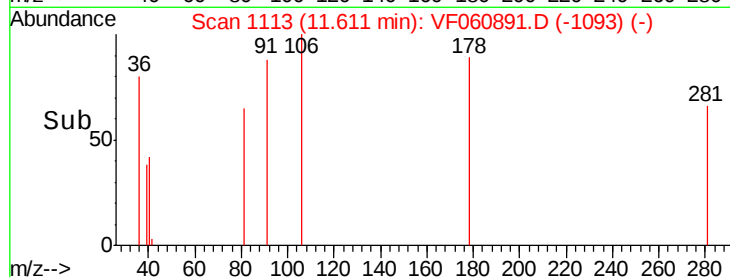


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



Time-->



#79

2-Chlorotoluene

Concen: 1.737 ug/l

RT: 11.75 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VF060891.D

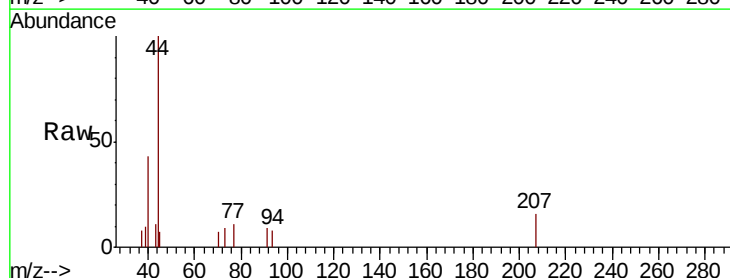
Acq: 3 Dec 2018 15:04

Tgt Ion: 91 Resp: 81

Ion Ratio Lower Upper

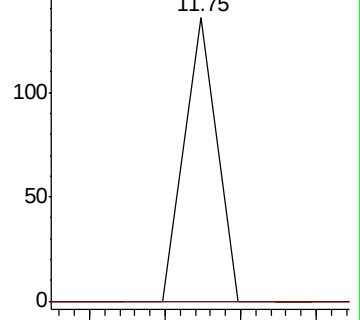
91 100

126 0.0 15.9 47.6#

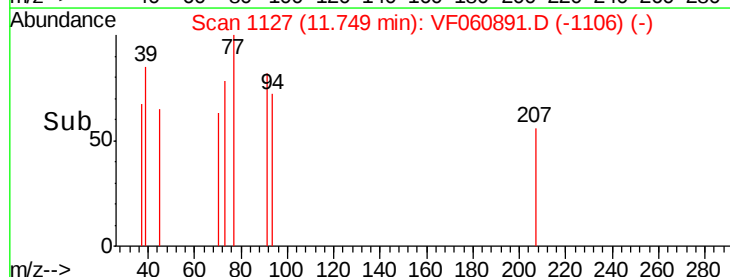


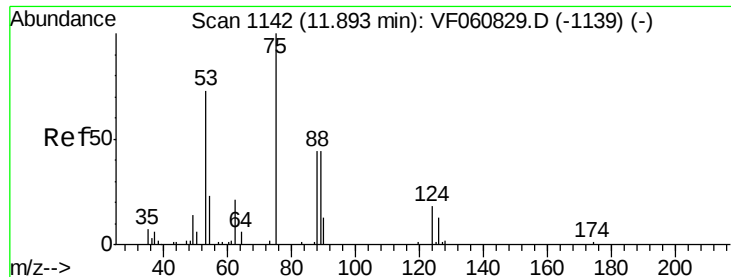
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 15.228 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.08 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

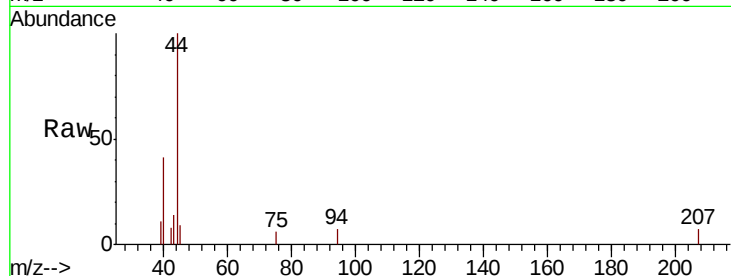
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

89 0.0 38.8 58.2#

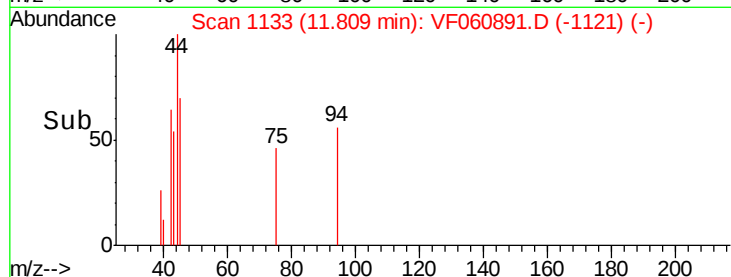


Abundance Ion 75.00 (74.70 to 75.70): VF0

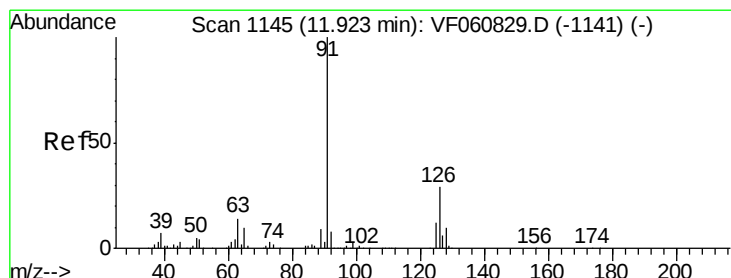
Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

11.81



Time-->



#82

4-Chlorotoluene

Concen: 1.243 ug/l

RT: 11.94 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VF060891.D

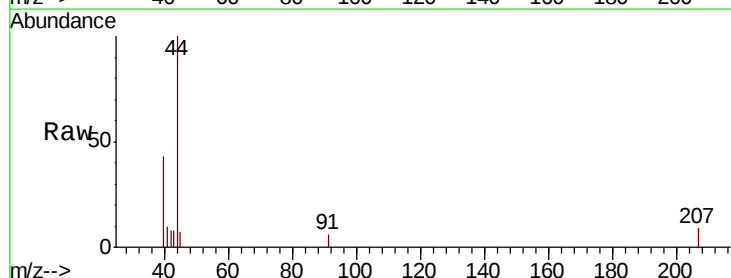
Acq: 3 Dec 2018 15:04

Tgt Ion: 91 Resp: 61

Ion Ratio Lower Upper

91 100

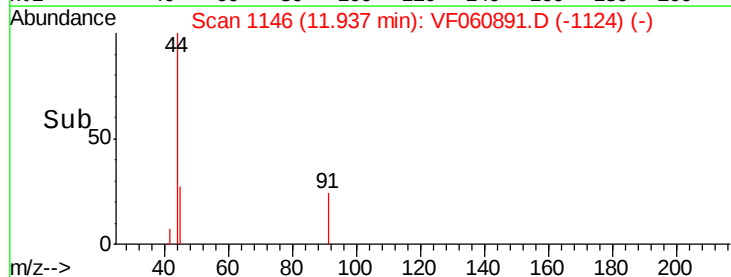
126 0.0 14.8 44.4#



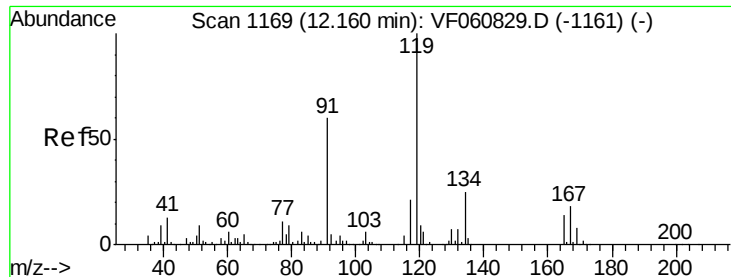
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.94



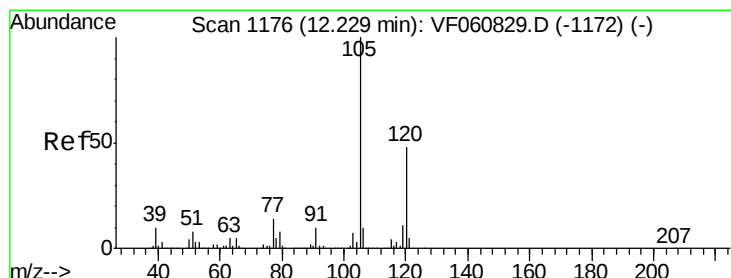
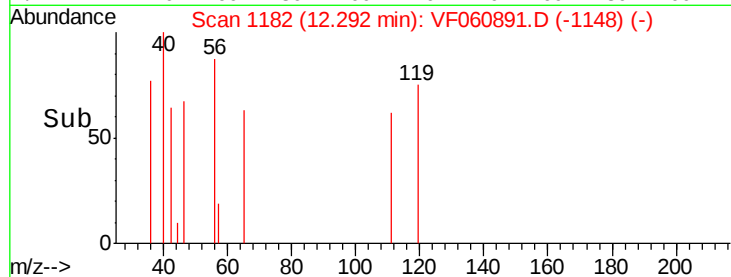
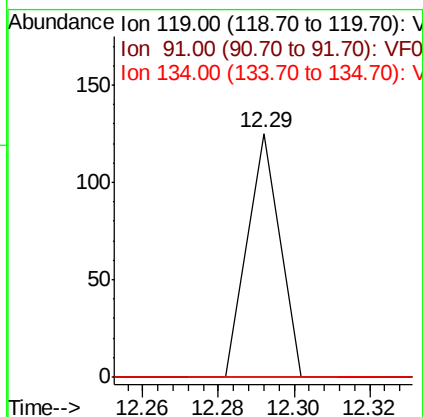
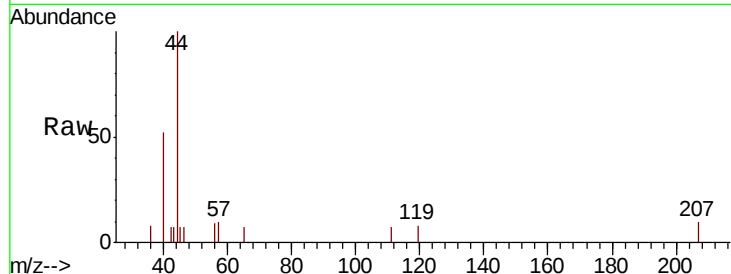
Time-->



#83
 tert-Butylbenzene
 Concen: 1.288 ug/l
 RT: 12.29 min Scan# 1182
 Delta R.T. 0.13 min
 Lab File: VF060891.D
 Acq: 3 Dec 2018 15:04

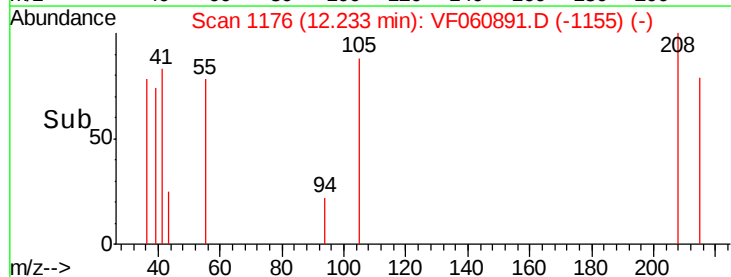
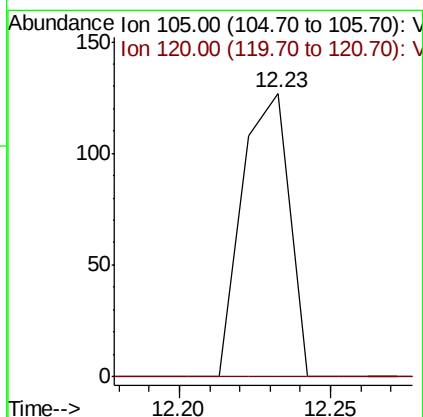
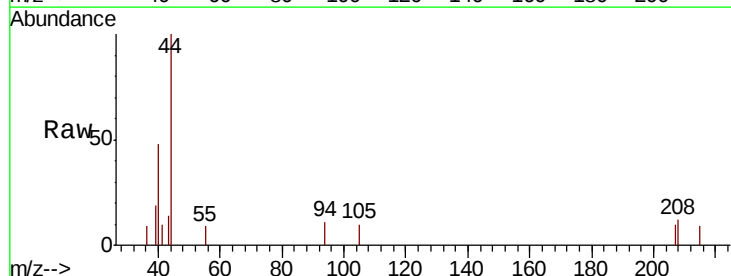
Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-112918-A

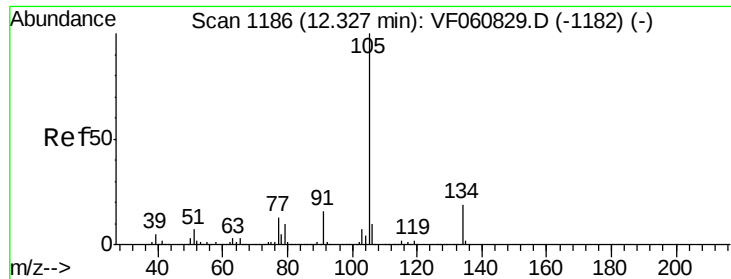
Tot Ion:119 Resp: 74
 Ion Ratio Lower Upper
 119 100
 91 0.0 30.1 90.3#
 134 0.0 12.6 37.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.470 ug/l
 RT: 12.23 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VF060891.D
 Acq: 3 Dec 2018 15:04

Tgt Ion:105 Resp: 139
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 71.5#





#85

sec-Butylbenzene

Concen: 1.704 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

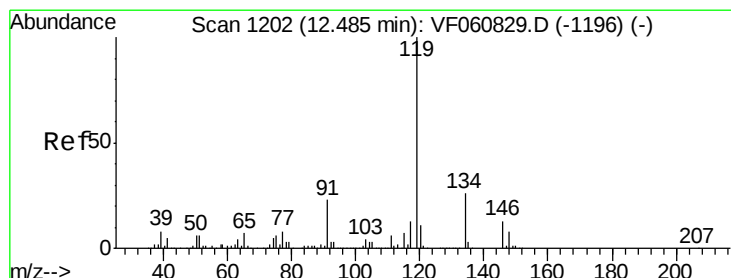
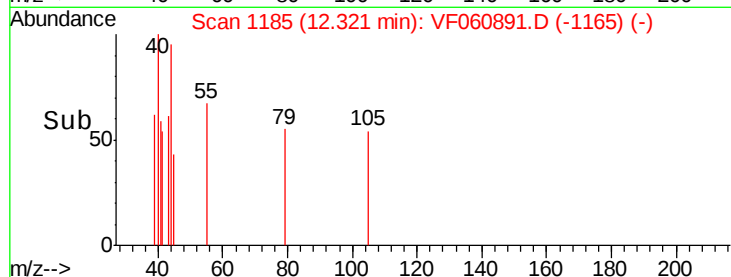
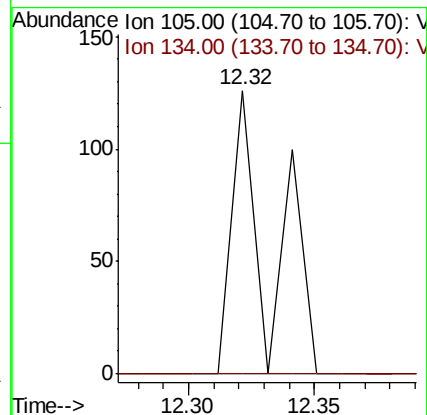
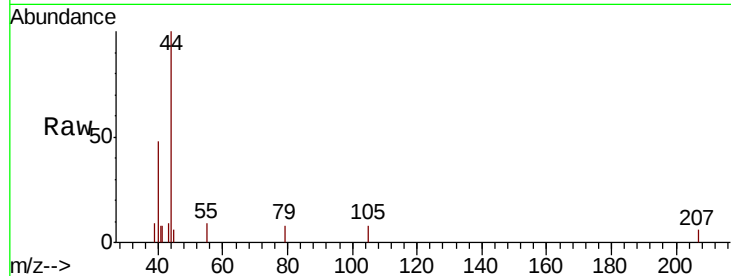
EO-02-112918-A

Tot Ion:105 Resp: 134

Ion Ratio Lower Upper

105 100

134 0.0 9.5 28.5#



#86

p-Isopropyltoluene

Concen: 1.304 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

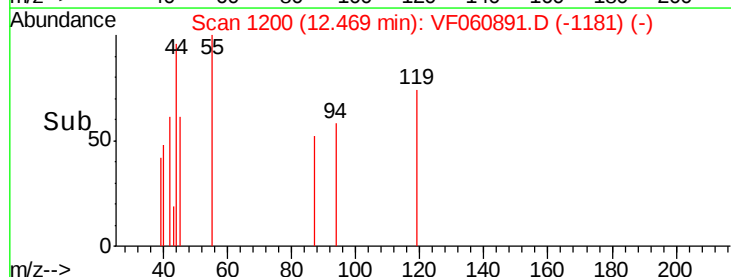
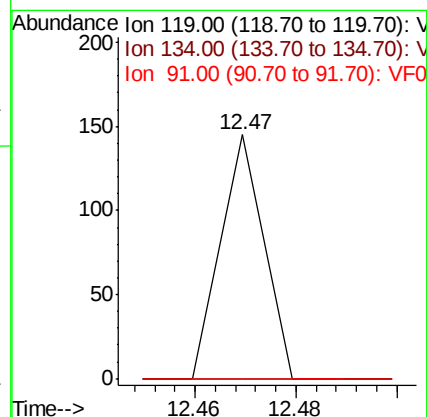
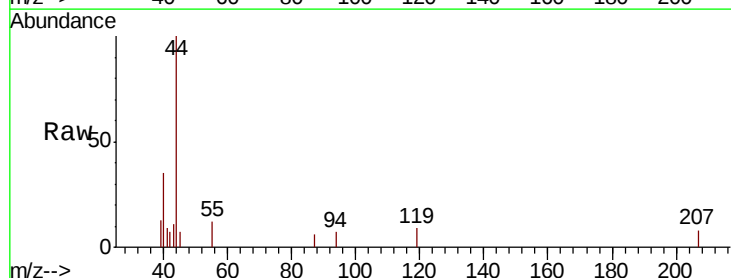
Tgt Ion:119 Resp: 86

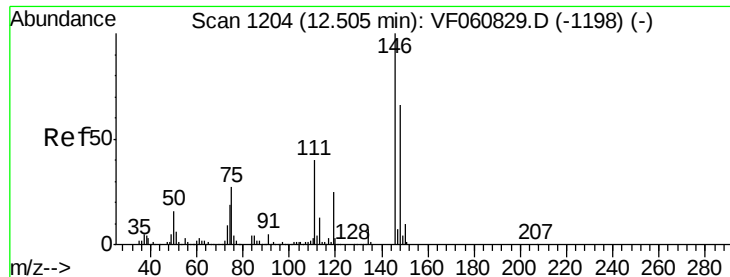
Ion Ratio Lower Upper

119 100

134 0.0 12.9 38.6#

91 0.0 11.8 35.3#





#87

1,3-Dichlorobenzene

Concen: 2.106 ug/l

RT: 12.44 min Scan# 1197

Delta R.T. -0.07 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

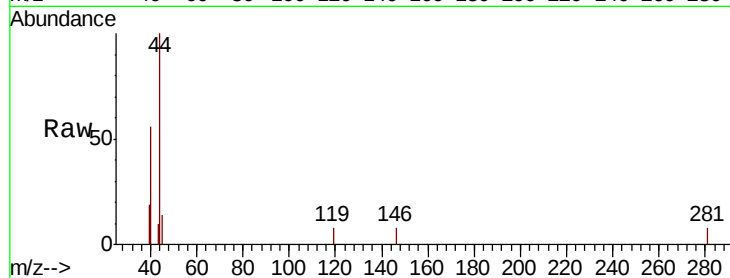
Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

Tot Ion:146	Resp:	61
Ion	Ratio	Lower Upper
146	100	
111	0.0	20.0 59.9#
148	0.0	32.9 98.6#

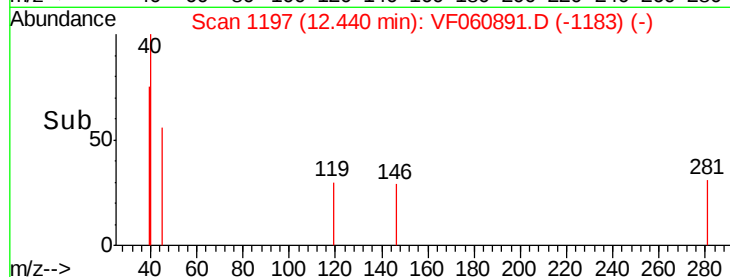


Abundance Ion 146.00 (145.70 to 146.70): V

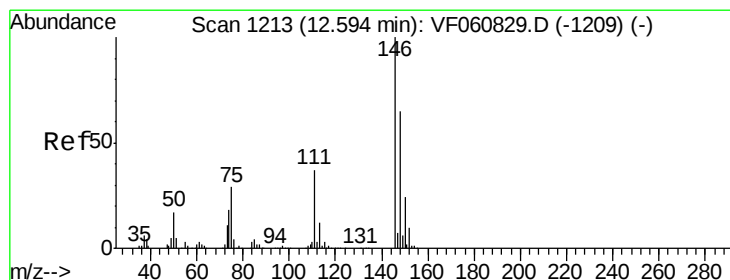
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

12.44



Time-->



#88

1,4-Dichlorobenzene

Concen: 2.161 ug/l

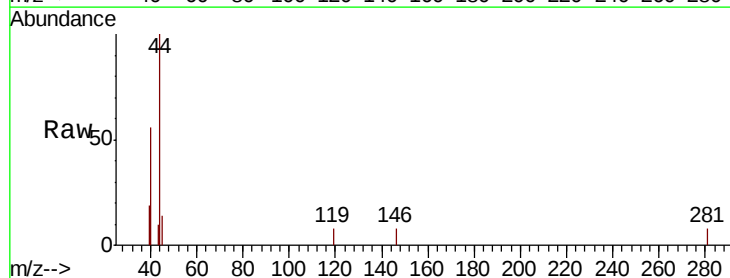
RT: 12.44 min Scan# 1197

Delta R.T. -0.15 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Tgt Ion:146	Resp:	61
Ion	Ratio	Lower Upper
146	100	
111	0.0	18.9 56.7#
148	0.0	32.3 96.9#

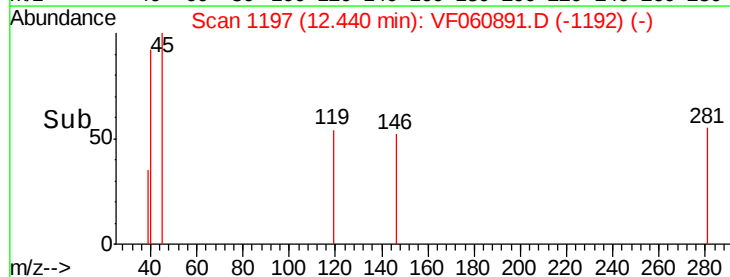


Abundance Ion 146.00 (145.70 to 146.70): V

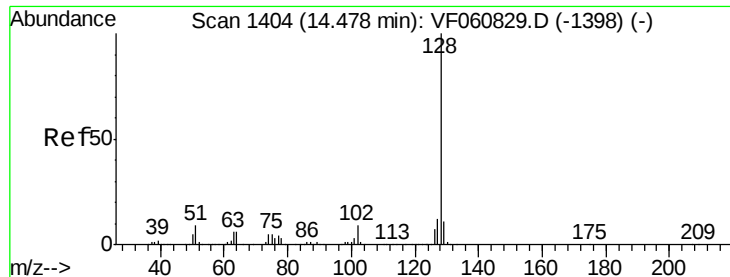
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

12.44



Time-->



#95

Naphthalene

Concen: 2.828 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

Instrument :

MSVOA_F

ClientSampleId :

EO-02-112918-A

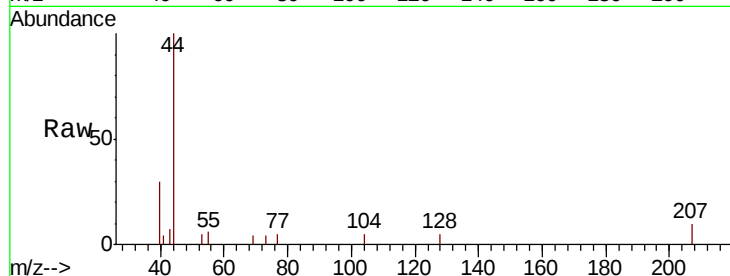
Tot Ion:128 Resp: 228

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

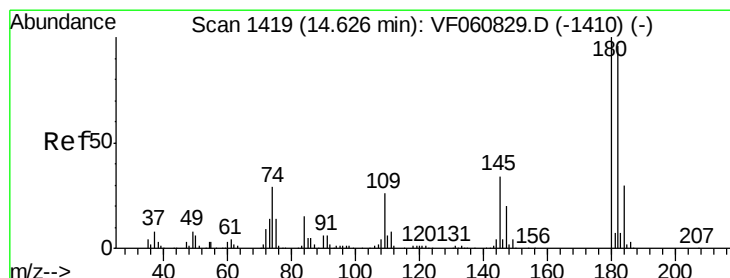
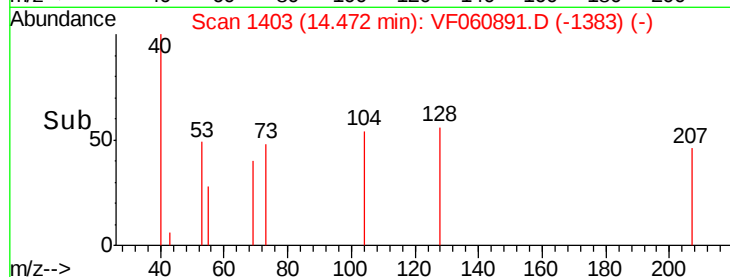
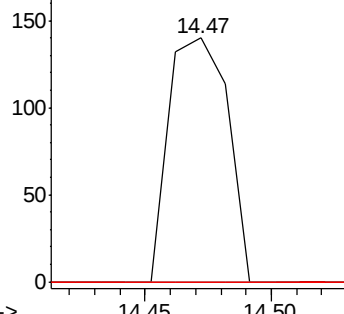
129 0.0 9.1 13.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.708 ug/l

RT: 14.62 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VF060891.D

Acq: 3 Dec 2018 15:04

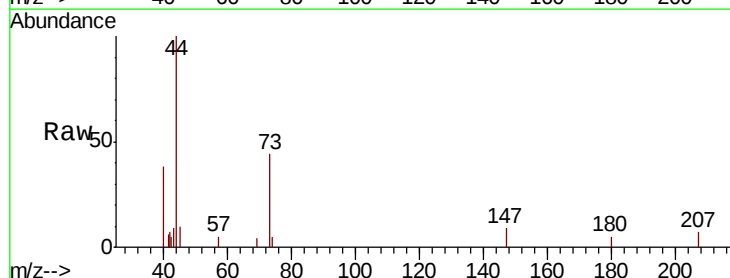
Tgt Ion:180 Resp: 66

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

145 0.0 17.2 51.5#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

