

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071018\
 Data File : VF059485.D
 Acq On : 10 Jul 2018 15:37
 Operator : VA/AP
 Sample : J3896-01RE
 Misc : 5.96g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-SOILRE

Quant Time: Jul 11 11:07:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 06:35:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	1912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.73	114	1991	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	1026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	126	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.99	65	388	11.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.34%	
35) Dibromofluoromethane	4.25	113	218	11.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.82%	
50) Toluene-d8	7.70	98	1295	28.82	ug/l	0.02
Spiked Amount	50.000		Recovery	=	57.64%	
62) 4-Bromofluorobenzene	11.49	95	216	8.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	17.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.91	85	67	2.49	ug/l #	43
3) Chloromethane	0.98	50	66	4.97	ug/l #	42
5) Bromomethane	1.42	94	61	5.73	ug/l #	4
7) Trichlorofluoromethane	1.51	101	69	2.34	ug/l #	18
8) Diethyl Ether	1.71	74	70	11.33	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	1.96	101	60	3.76	ug/l #	20
12) 1,1-Dichloroethene	1.91	96	90	6.23	ug/l #	1
14) Allyl chloride	2.17	41	155	6.18	ug/l #	1
15) Acrylonitrile	3.03	53	150	54.22	ug/l #	10
16) Acetone	2.30	43	63	12.67	ug/l #	67
18) Methyl Acetate	2.41	43	127	11.00	ug/l #	66
19) Methyl tert-butyl Ether	2.60	73	61	1.30	ug/l #	61
20) Methylene Chloride	2.20	84	85	1.89	ug/l #	5
21) trans-1,2-Dichloroethene	2.40	96	73	4.75	ug/l #	1
22) Diisopropyl ether	2.92	45	151	2.91	ug/l #	75
23) Vinyl Acetate	3.32	43	157	5.20	ug/l #	81
25) 2-Butanone	4.45	43	73	10.77	ug/l #	60
26) 2,2-Dichloropropane	3.74	77	64	3.19	ug/l #	63
29) Tetrahydrofuran	4.14	42	105	33.05	ug/l #	46
30) Chloroform	4.02	83	63	1.28	ug/l #	19
31) Cyclohexane	3.80	56	82	4.07	ug/l #	1
36) 1,1-Dichloropropene	4.34	75	193	9.18	ug/l #	44
37) Ethyl Acetate	4.28	43	73	5.92	ug/l #	23
39) Methylcyclohexane	5.66	83	63	3.57	ug/l #	14
40) Benzene	4.88	78	73	1.77	ug/l #	49
41) Methacrylonitrile	4.90	41	64	11.29	ug/l #	22
42) 1,2-Dichloroethane	4.96	62	62	2.08	ug/l	88
43) Isopropyl Acetate	7.08	43	74	5.24	ug/l #	50
45) 1,2-Dichloropropane	6.37	63	63	5.32	ug/l #	45
47) Bromodichloromethane	6.58	83	65	2.36	ug/l #	22
48) Methyl methacrylate	6.85	41	88	8.73	ug/l #	11
49) 1,4-Dioxane	6.59	88	64	1398.80	ug/l #	15
51) 4-Methyl-2-Pentanone	8.36	43	159	15.10	ug/l #	40
54) cis-1,3-Dichloropropene	7.40	75	71	2.98	ug/l #	1

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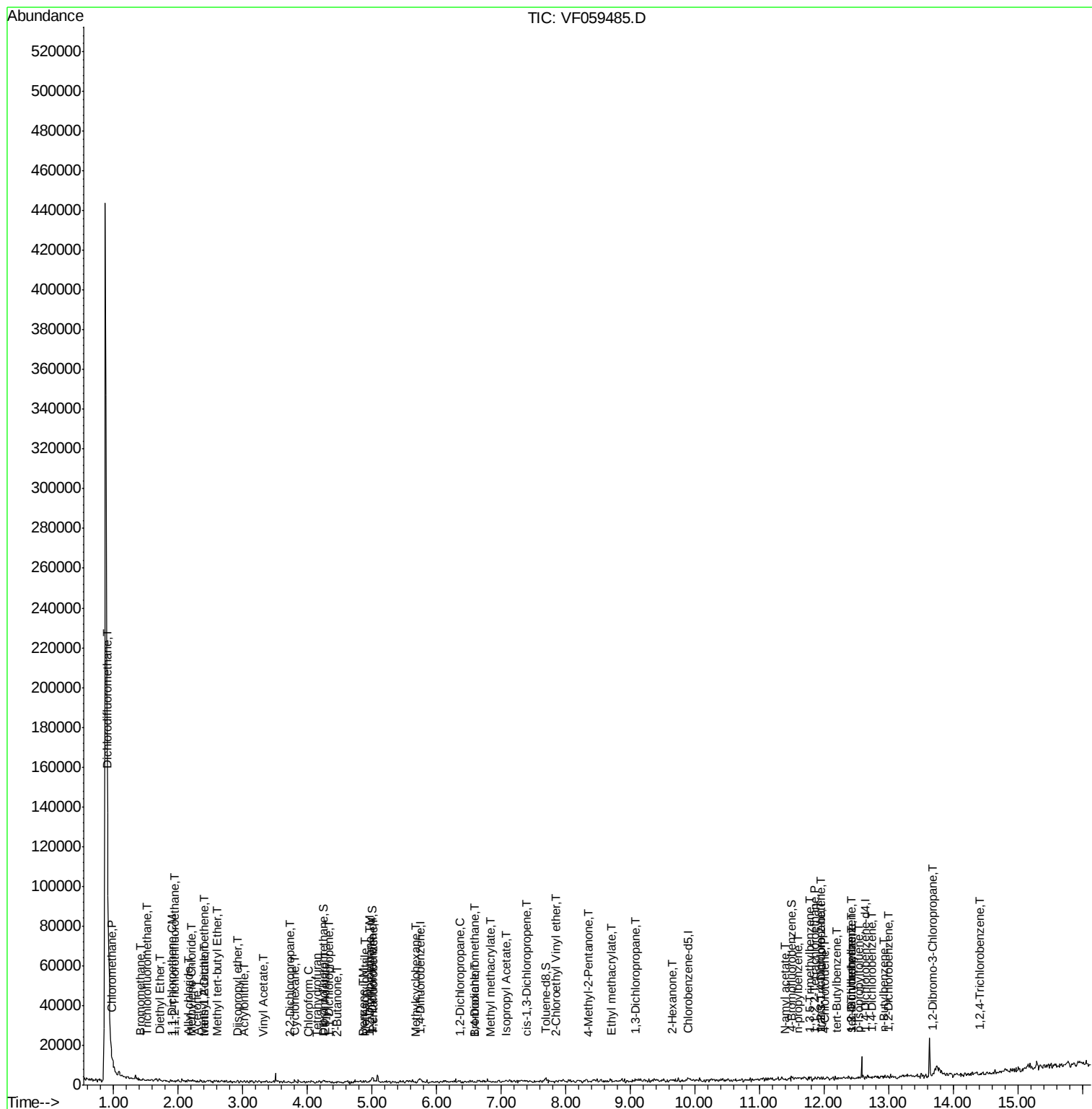
56) Ethyl methacrylate	8.71	69	69	5.08	ug/l #	33
57) 1,3-Dichloropropane	9.08	76	62	3.02	ug/l #	43
58) 2-Chloroethyl Vinyl ether	7.84	63	82	63.03	ug/l	100
59) 2-Hexanone	9.66	43	170	21.73	ug/l	85
74) N-amyl acetate	11.41	43	221	94.53	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	11.84	83	70	40.21	ug/l #	24
76) 1,2,3-Trichloropropane	11.96	75	64	45.15	ug/l #	41
78) n-propylbenzene	11.59	91	62	6.74	ug/l #	54
80) 1,3,5-Trimethylbenzene	11.77	105	139	20.48	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.96	75	64	87.04	ug/l #	9
82) 4-Chlorotoluene	12.01	91	79	13.10	ug/l #	45
83) tert-Butylbenzene	12.20	119	73	11.06	ug/l #	25
84) 1,2,4-Trimethylbenzene	12.42	105	63	8.83	ug/l #	32
85) sec-Butylbenzene	12.42	105	63	7.07	ug/l #	58
86) p-Isopropyltoluene	12.54	119	77	10.11	ug/l #	50
87) 1,3-Dichlorobenzene	12.43	146	82	20.43	ug/l #	25
88) 1,4-Dichlorobenzene	12.73	146	70	17.91	ug/l #	24
89) n-Butylbenzene	12.92	91	78	10.51	ug/l #	29
91) 1,2-Dichlorobenzene	13.00	146	60	15.07	ug/l #	23
92) 1,2-Dibromo-3-Chloropropan	13.67	75	63	144.53	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.40	180	64	21.64	ug/l #	11

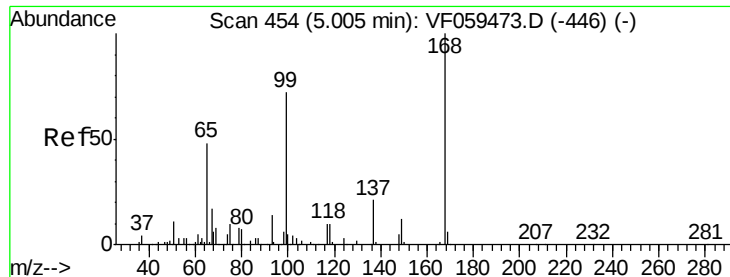
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

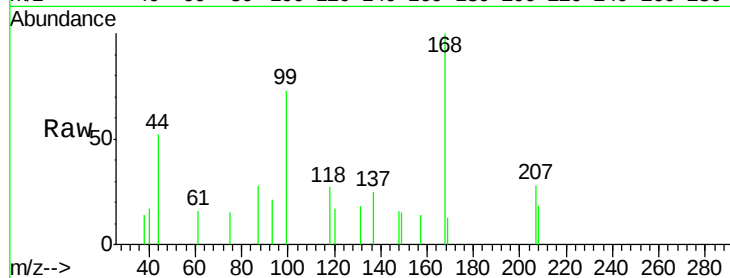
JC-SOILRE

Tot Ion:168 Resp: 1912

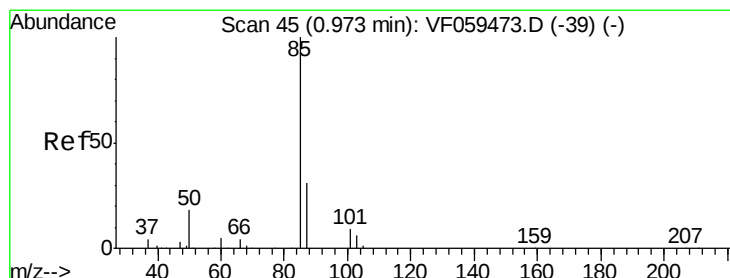
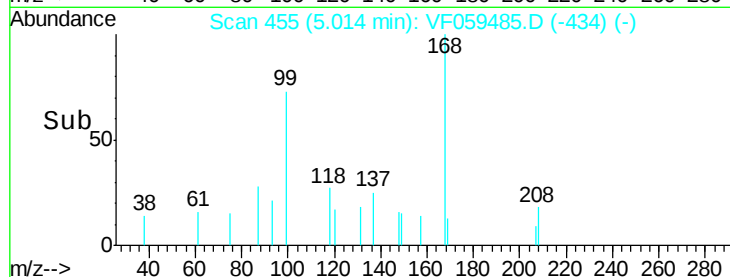
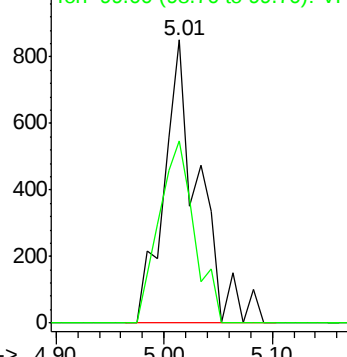
Ion Ratio Lower Upper

168 100

99 64.3 57.7 86.5



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 2.49 ug/l

RT: 0.91 min Scan# 39

Delta R.T. -0.06 min

Lab File: VF059485.D

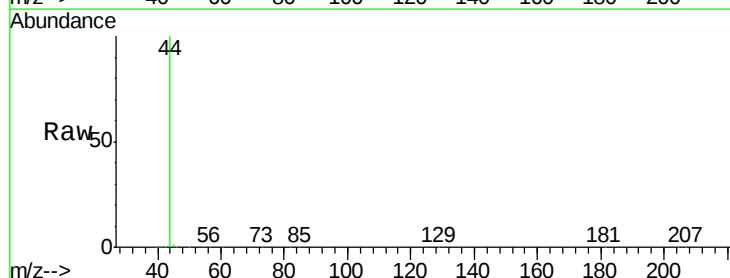
Acq: 10 Jul 2018 15:37

Tgt Ion: 85 Resp: 67

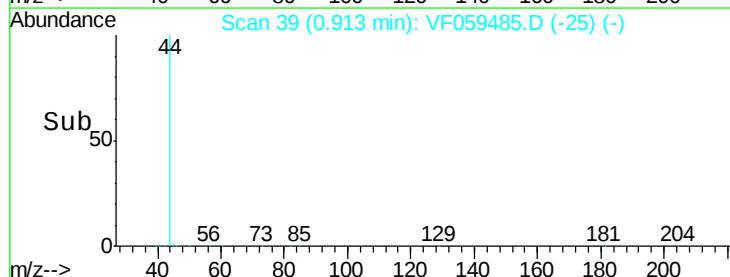
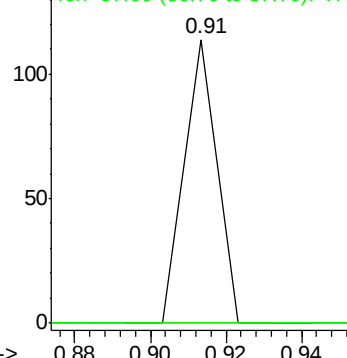
Ion Ratio Lower Upper

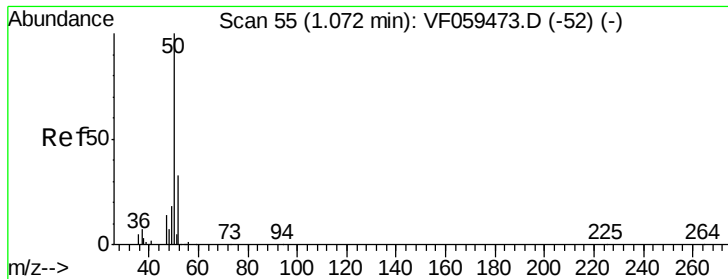
85 100

87 0.0 15.7 47.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 4.97 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.09 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

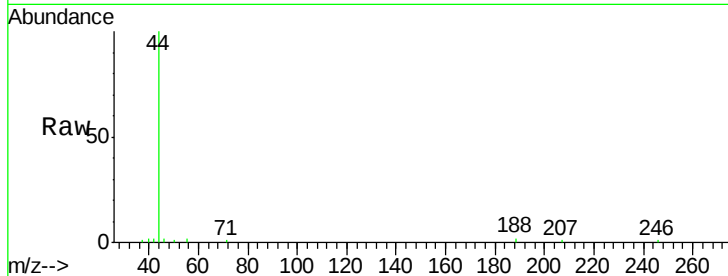
JC-SOILRE

Tot Ion: 50 Resp: 66

Ion Ratio Lower Upper

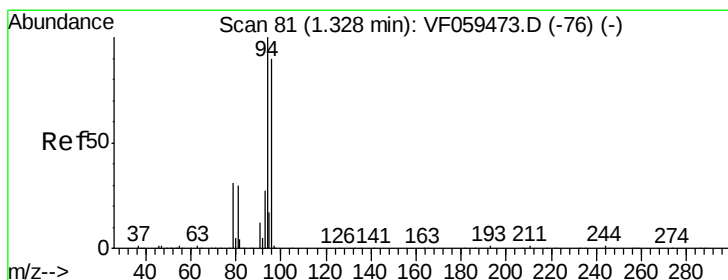
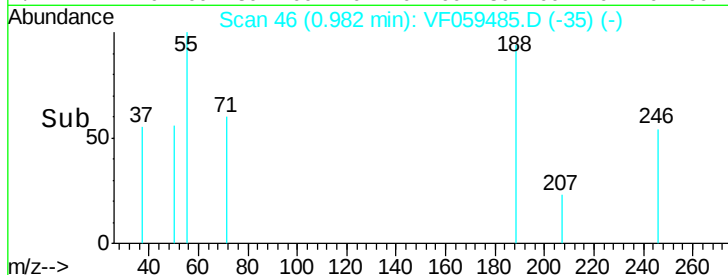
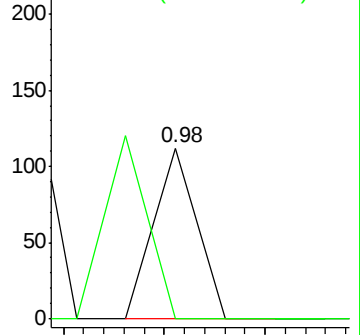
50 100

52 0.0 25.9 38.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#5

Bromomethane

Concen: 5.73 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.09 min

Lab File: VF059485.D

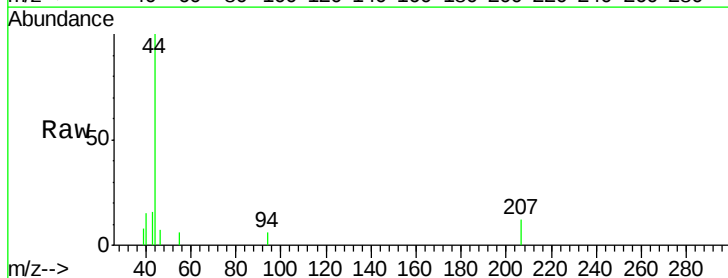
Acq: 10 Jul 2018 15:37

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

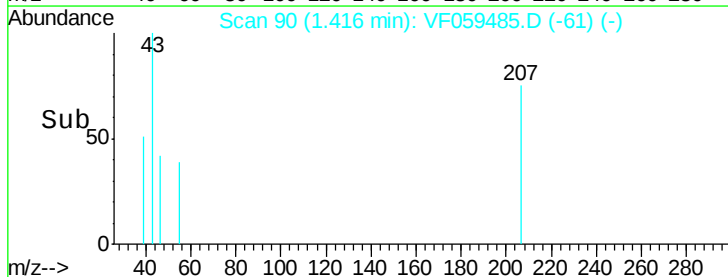
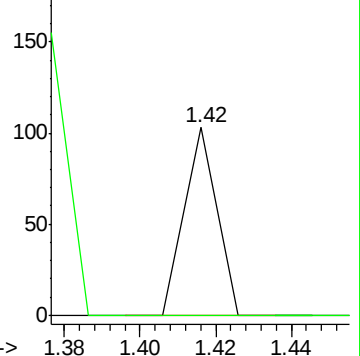
94 100

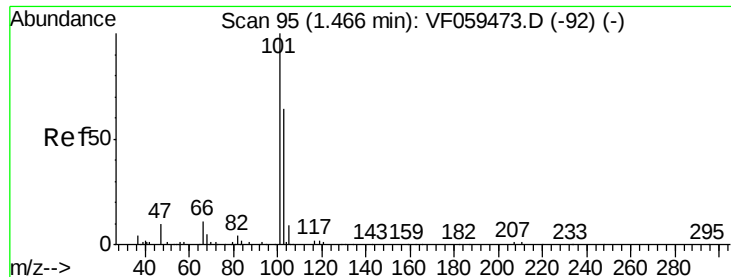
96 0.0 72.0 108.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#7

Trichlorofluoromethane

Concen: 2.34 ug/l

RT: 1.51 min Scan# 100

Delta R.T. 0.05 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

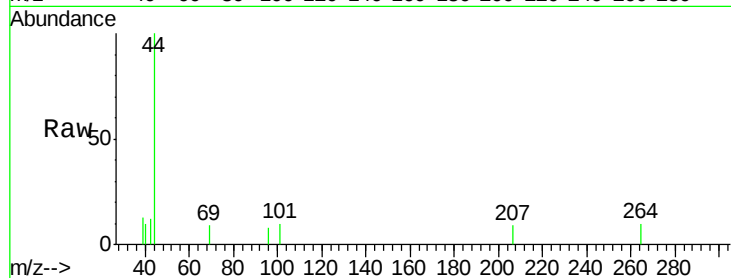
JC-SOILRE

Tot Ion:101 Resp: 69

Ion Ratio Lower Upper

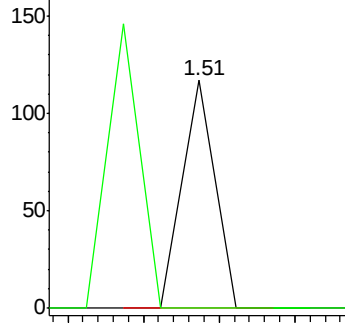
101 100

103 0.0 51.2 76.8#

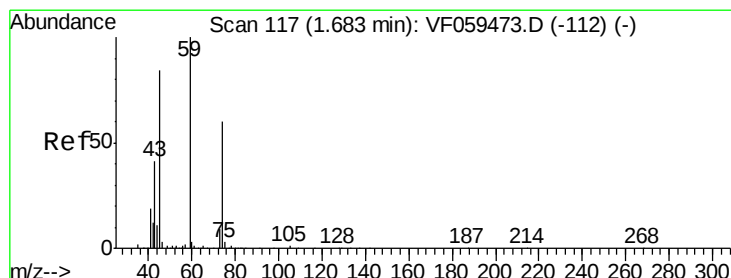
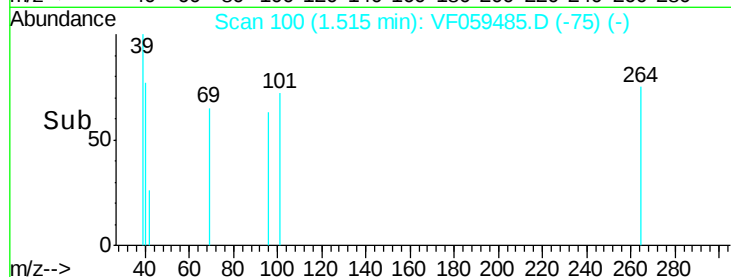


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#8

Diethyl Ether

Concen: 11.33 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.03 min

Lab File: VF059485.D

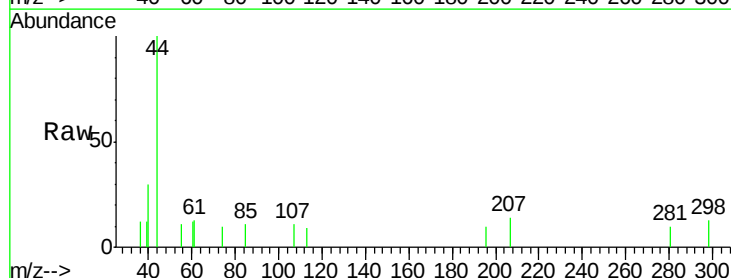
Acq: 10 Jul 2018 15:37

Tgt Ion: 74 Resp: 70

Ion Ratio Lower Upper

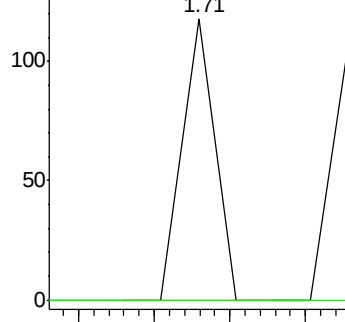
74 100

45 0.0 71.1 213.3#

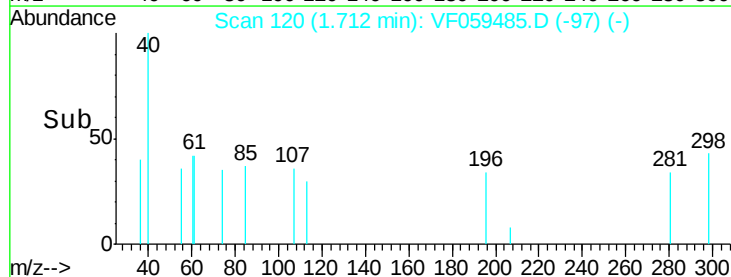


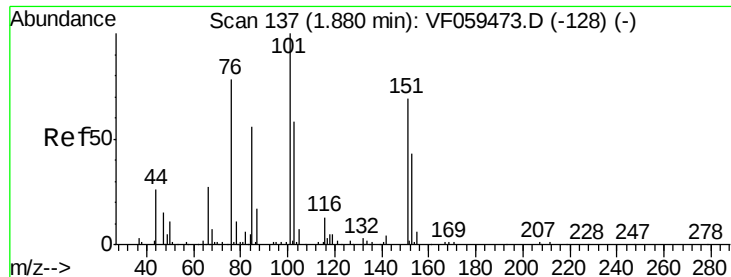
Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.76 ug/l

RT: 1.96 min Scan# 145

Delta R.T. 0.08 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampled :

JC-SOILRE

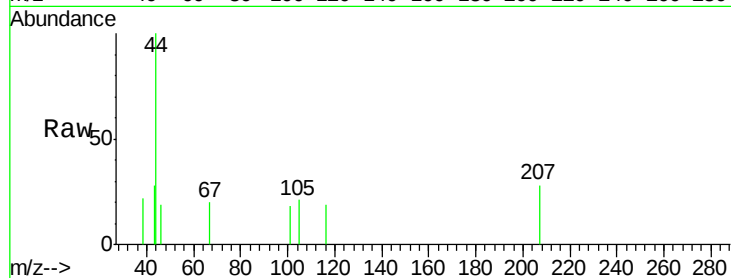
Tot Ion:101 Resp: 60

Ion Ratio Lower Upper

101 100

85 0.0 43.8 65.8#

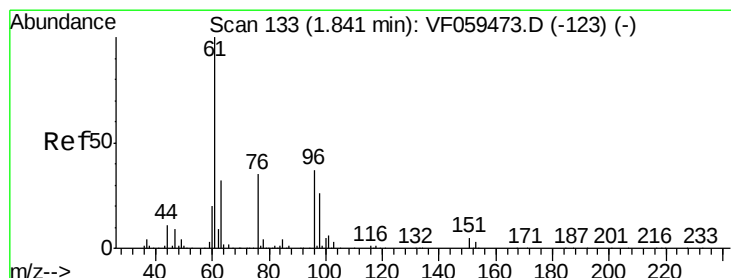
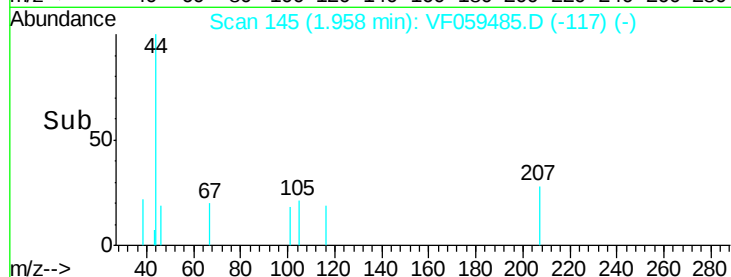
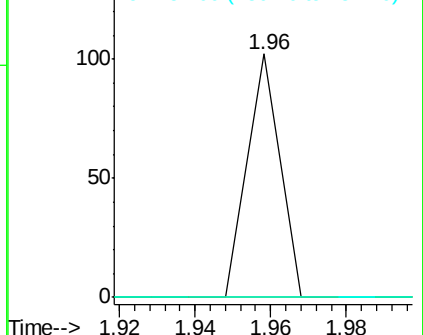
151 0.0 54.2 81.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 6.23 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.07 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

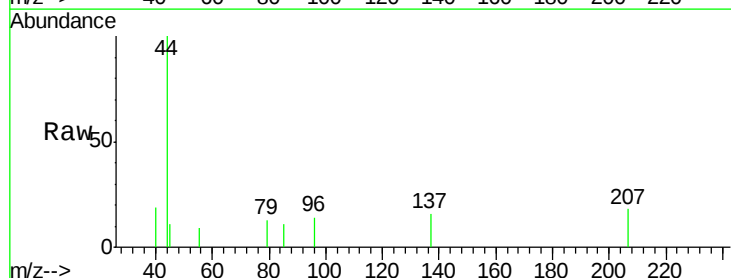
Tgt Ion: 96 Resp: 90

Ion Ratio Lower Upper

96 100

61 0.0 214.4 321.6#

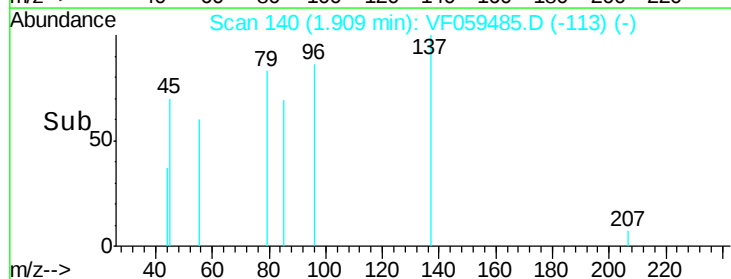
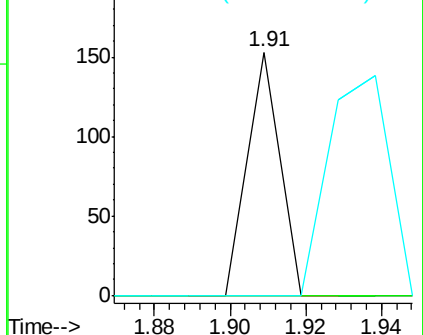
98 0.0 55.6 83.4#

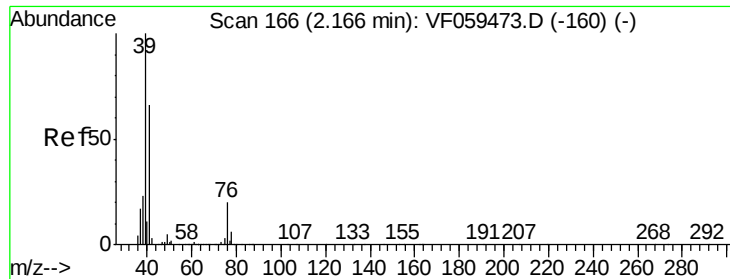


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

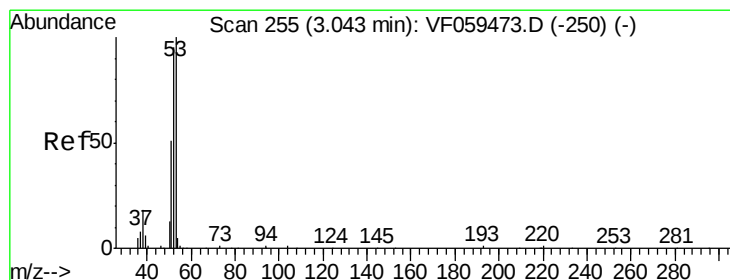
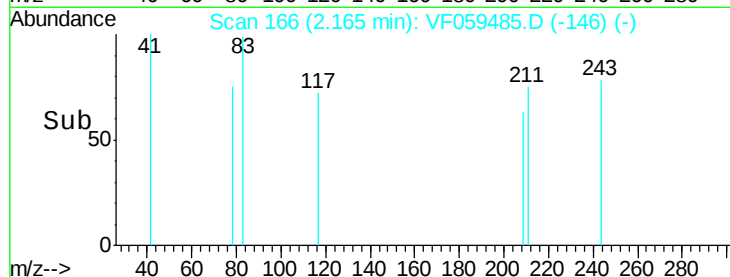
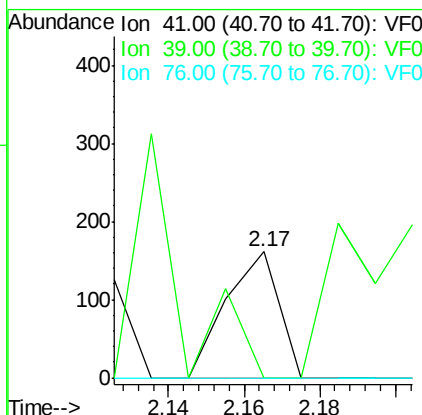
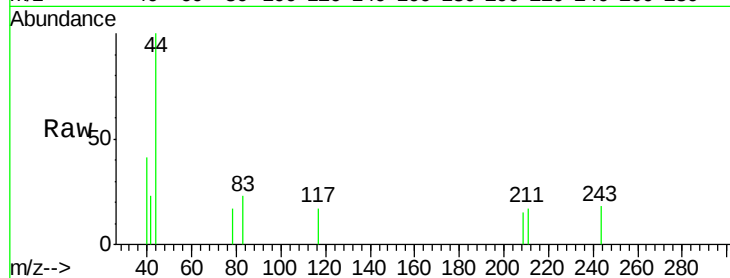




#14
Allvl chloride
Concen: 6.18 ug/l
RT: 2.17 min Scan# 166
Delta R.T. -0.00 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

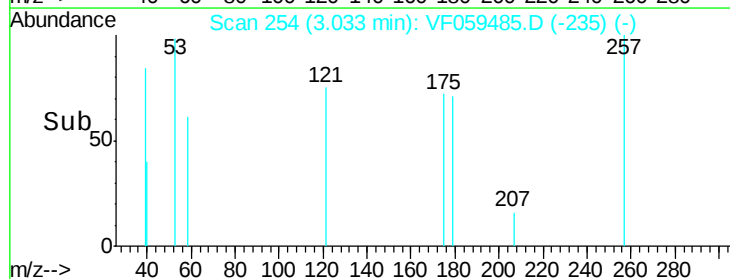
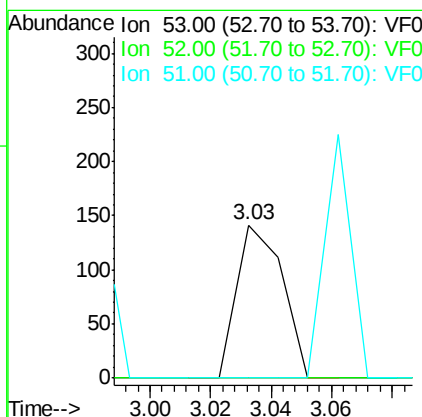
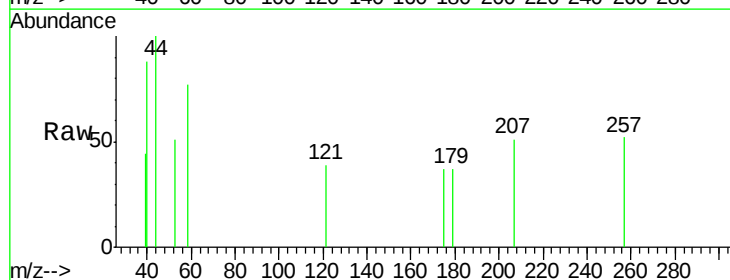
Instrument :
MSVOA_F
ClientSampleId :
JC-SOILRE

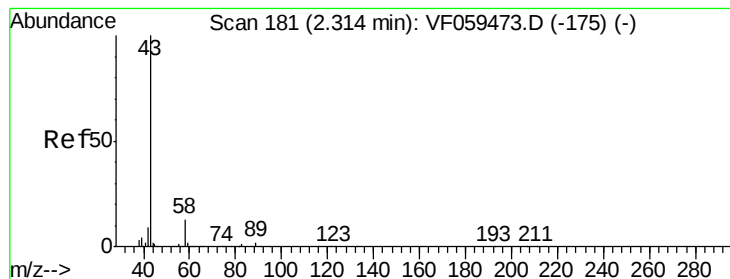
Tot Ion: 41 Resp: 155
Ion Ratio Lower Upper
41 100
39 0.0 120.7 181.1#
76 0.0 24.0 36.0#



#15
Acrylonitrile
Concen: 54.22 ug/l
RT: 3.03 min Scan# 254
Delta R.T. -0.01 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

Tgt Ion: 53 Resp: 150
Ion Ratio Lower Upper
53 100
52 0.0 76.8 115.2#
51 0.0 41.8 62.8#





#16

Acetone

Concen: 12.67 ug/l

RT: 2.30 min Scan# 180

Delta R.T. -0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

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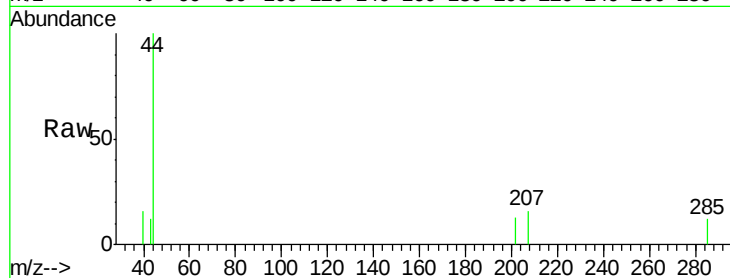
JC-SOILRE

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

58 0.0 10.5 15.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.30

100

80

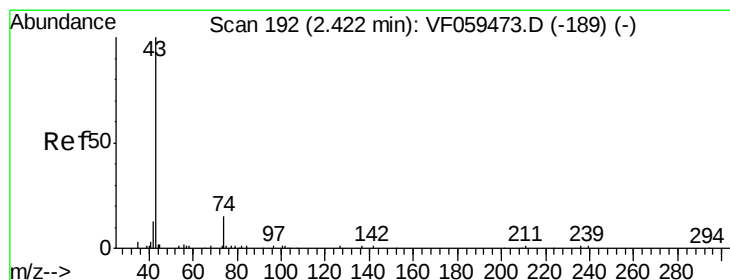
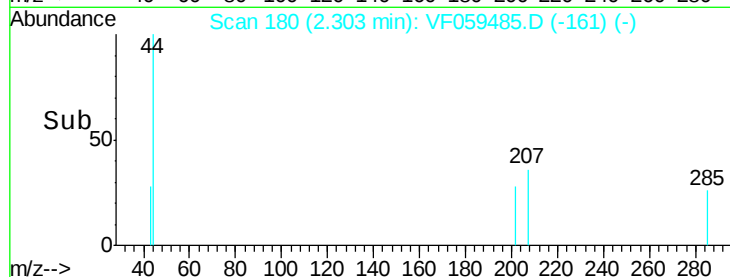
60

40

20

0

Time-->



#18

Methyl Acetate

Concen: 11.00 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.01 min

Lab File: VF059485.D

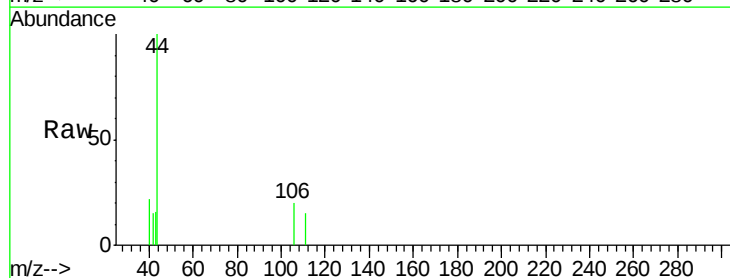
Acq: 10 Jul 2018 15:37

Tgt Ion: 43 Resp: 127

Ion Ratio Lower Upper

43 100

74 0.0 10.8 16.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

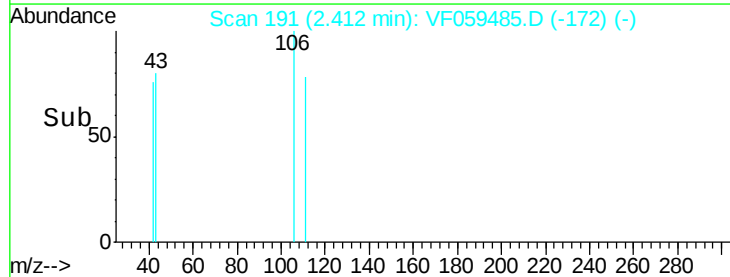
2.41

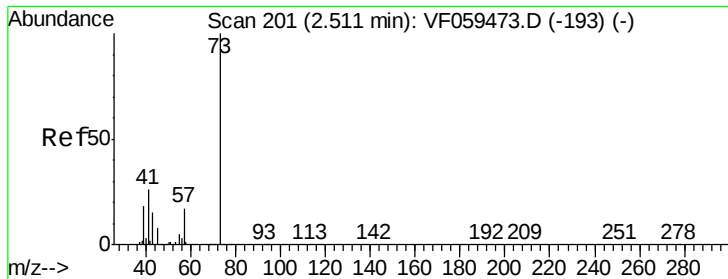
100

50

0

Time-->



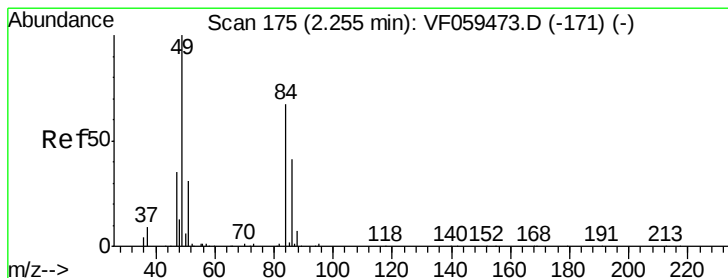
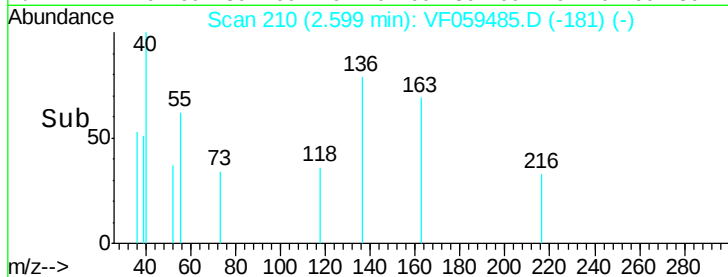
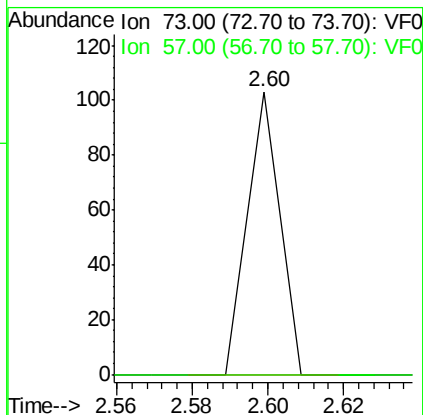
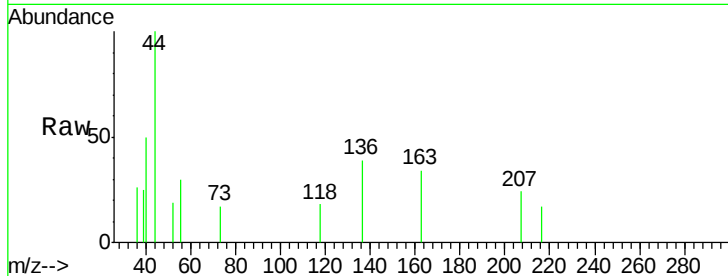


#19

Methyl tert-butyl Ether
 Concen: 1.30 ug/l
 RT: 2.60 min Scan# 210
 Delta R.T. 0.09 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-SOILRE

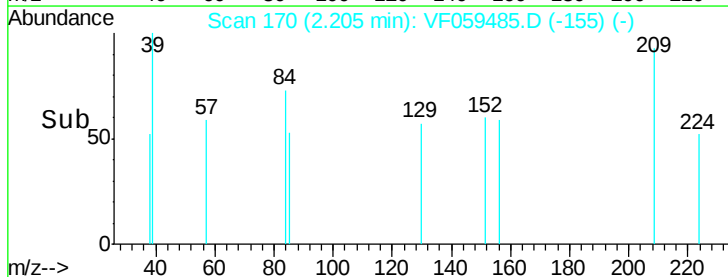
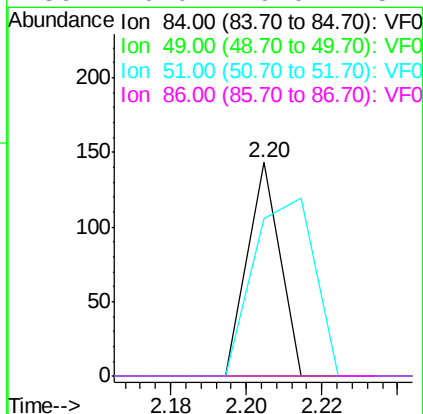
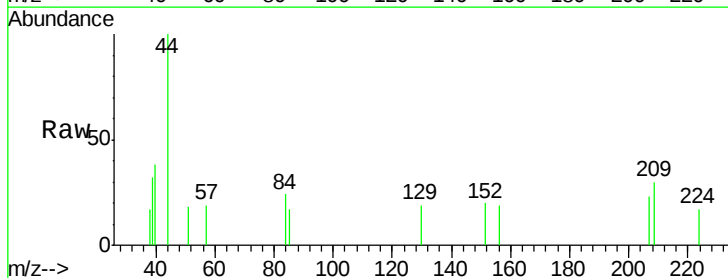
Tot Ion: 73 Resp: 61
 Ion Ratio Lower Upper
 73 100
 57 0.0 13.7 20.5#

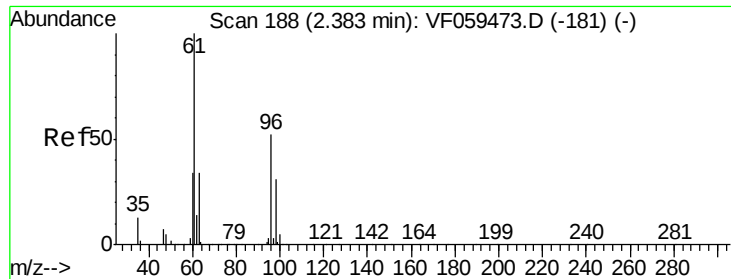


#20

Methylene Chloride
 Concen: 1.89 ug/l
 RT: 2.20 min Scan# 170
 Delta R.T. -0.05 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Tgt Ion: 84 Resp: 85
 Ion Ratio Lower Upper
 84 100
 49 0.0 120.4 180.6#
 51 74.1 38.1 57.1#
 86 0.0 49.0 73.4#





#21

trans-1,2-Dichloroethene

Concen: 4.75 ug/l

RT: 2.40 min Scan# 190

Delta R.T. 0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

JC-SOILRE

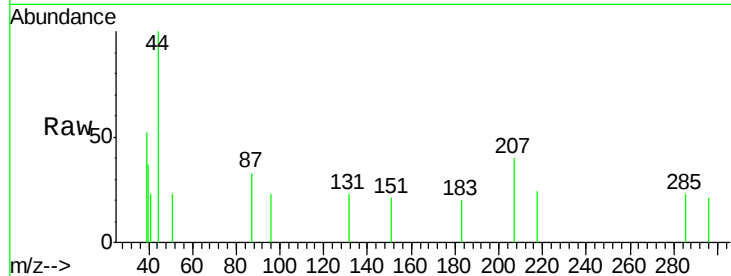
Tot Ion: 96 Resp: 73

Ion Ratio Lower Upper

96 100

61 0.0 154.3 231.5#

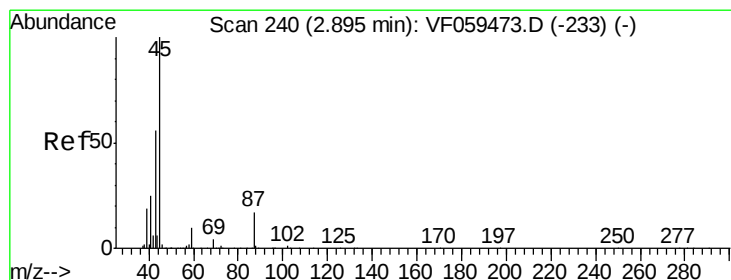
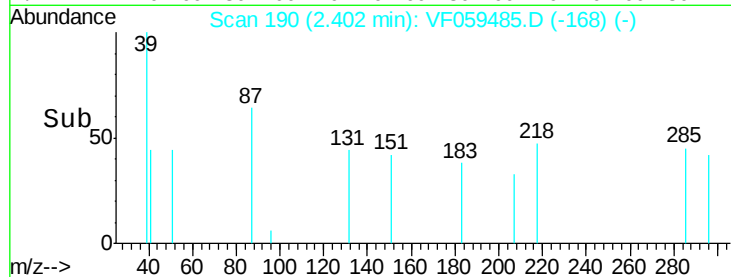
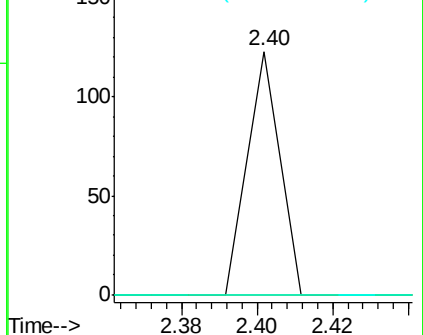
98 0.0 48.2 72.4#



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



#22

Diisopropyl ether

Concen: 2.91 ug/l

RT: 2.92 min Scan# 243

Delta R.T. 0.03 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Tgt Ion: 45 Resp: 151

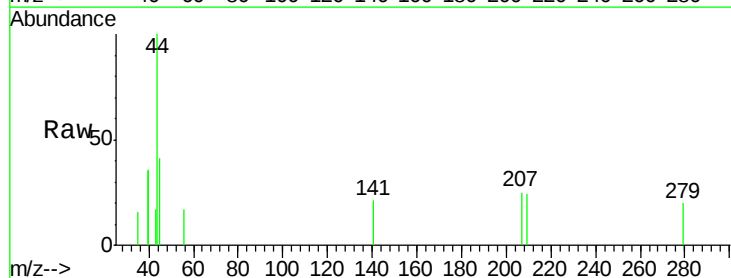
Ion Ratio Lower Upper

45 100

43 42.4 45.4 68.2#

87 0.0 13.5 20.3#

59 0.0 8.2 12.4#

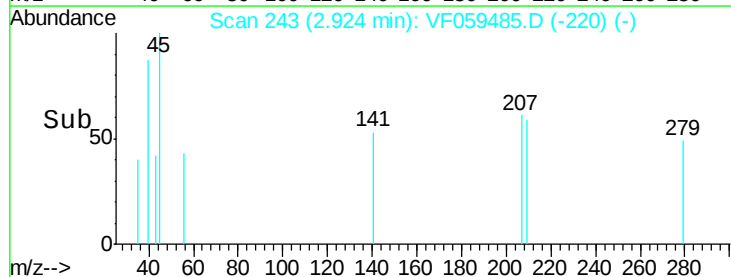
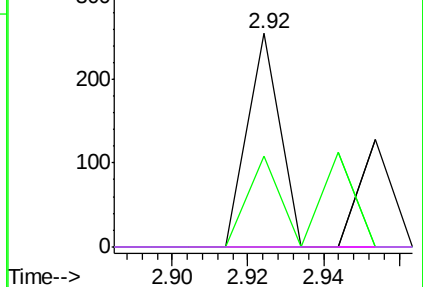


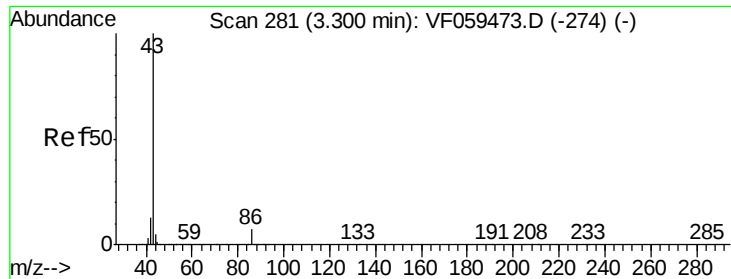
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 5.20 ug/l

RT: 3.32 min Scan# 283

Delta R.T. 0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampled :

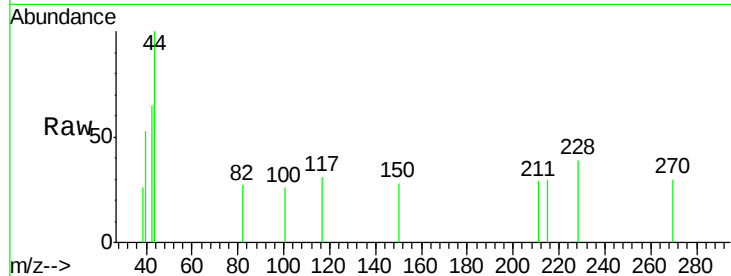
JC-SOILRE

Tot Ion: 43 Resp: 157

Ion Ratio Lower Upper

43 100

86 0.0 5.3 7.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.32

250

200

150

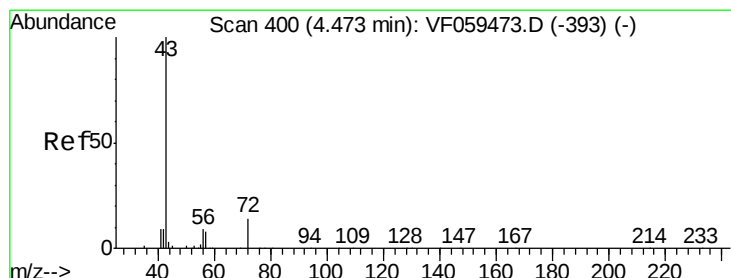
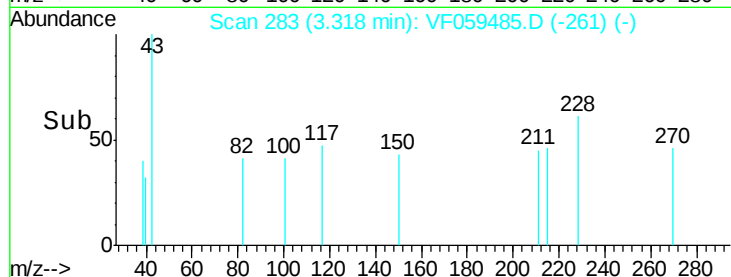
100

50

0

Time-->

3.28 3.30 3.32 3.34



#25

2-Butanone

Concen: 10.77 ug/l

RT: 4.45 min Scan# 398

Delta R.T. -0.02 min

Lab File: VF059485.D

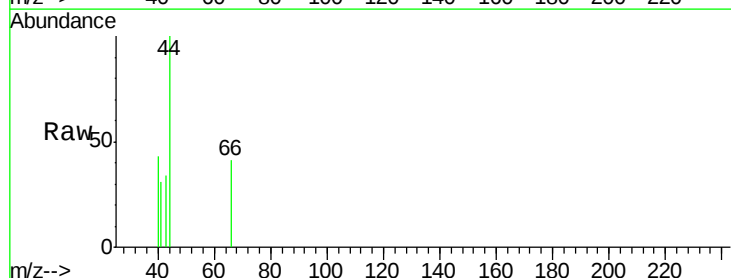
Acq: 10 Jul 2018 15:37

Tgt Ion: 43 Resp: 73

Ion Ratio Lower Upper

43 100

72 0.0 13.8 20.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.45

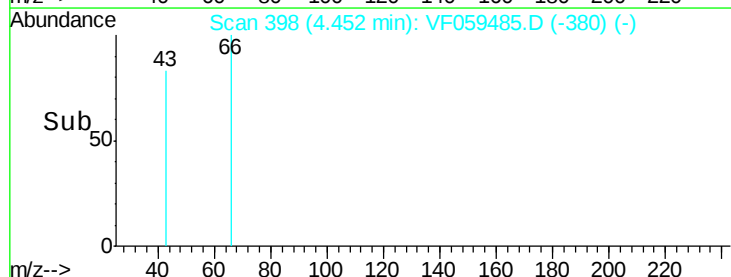
100

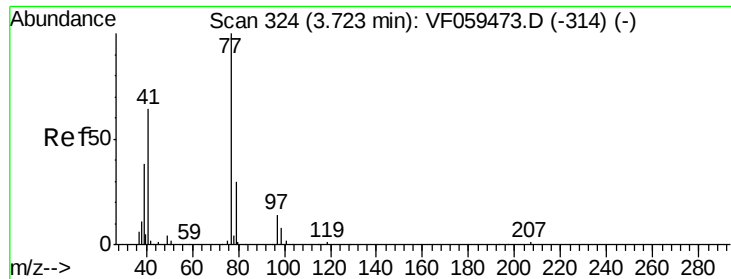
50

0

Time-->

4.42 4.44 4.46 4.48





#26

2,2-Dichloropropane

Concen: 3.19 ug/l

RT: 3.74 min Scan# 326

Delta R.T. 0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

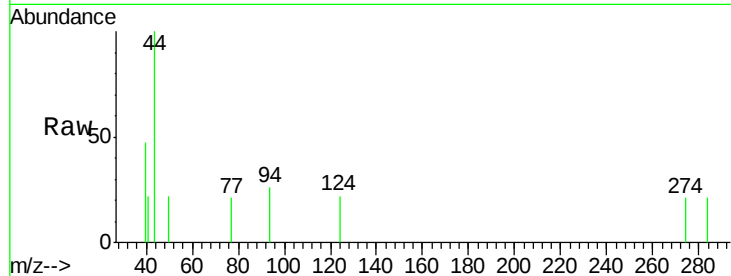
JC-SOILRE

Tot Ion: 77 Resp: 64

Ion Ratio Lower Upper

77 100

97 0.0 7.7 23.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.74

120

100

80

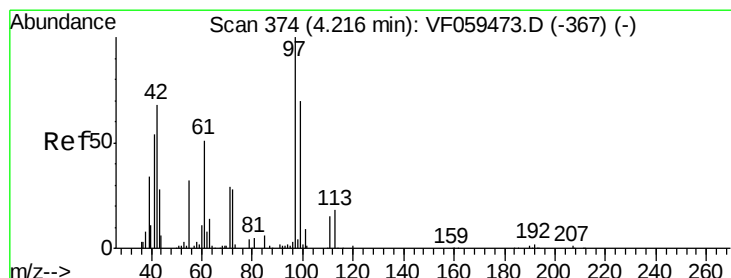
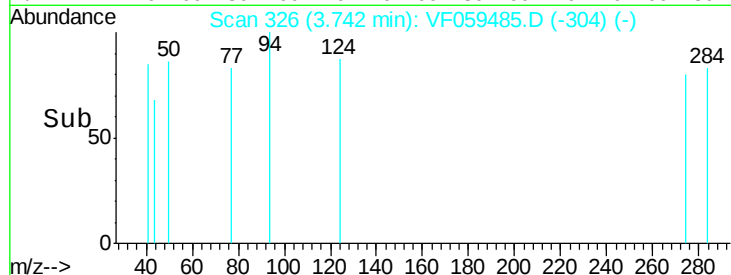
60

40

20

0

Time-->



#29

Tetrahydrofuran

Concen: 33.05 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.08 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

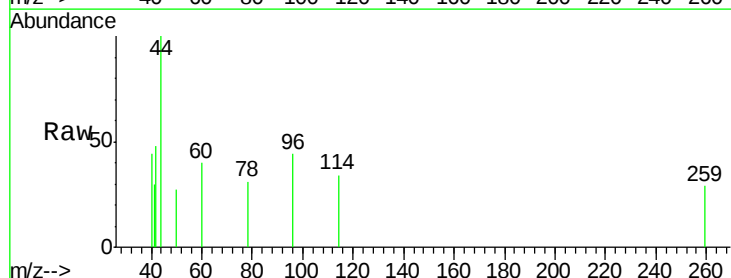
Tgt Ion: 42 Resp: 105

Ion Ratio Lower Upper

42 100

72 62.9 29.2 43.8#

71 0.0 30.1 45.1#



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

200

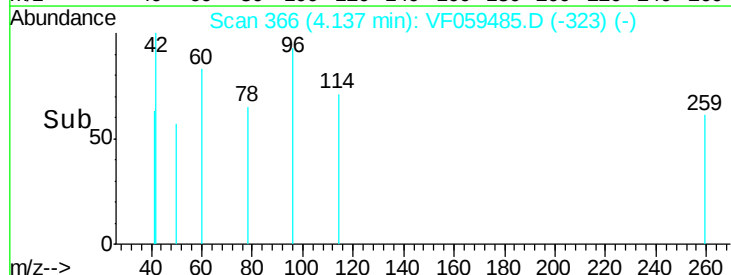
150

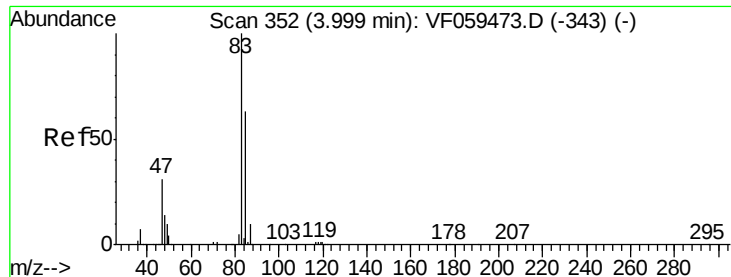
100

50

0

Time-->





#30

Chloroform

Concen: 1.28 ug/l

RT: 4.02 min Scan# 354

Delta R.T. 0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

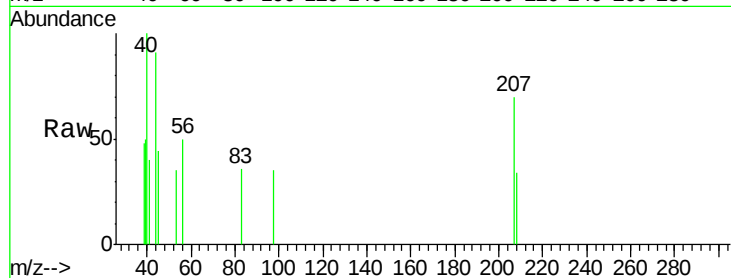
JC-SOILRE

Tot Ion: 83 Resp: 63

Ion Ratio Lower Upper

83 100

85 0.0 50.3 75.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

4.02

120

100

80

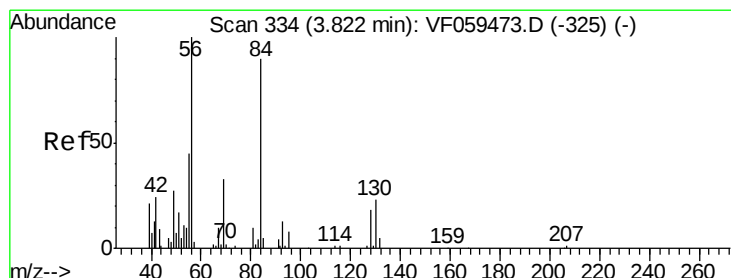
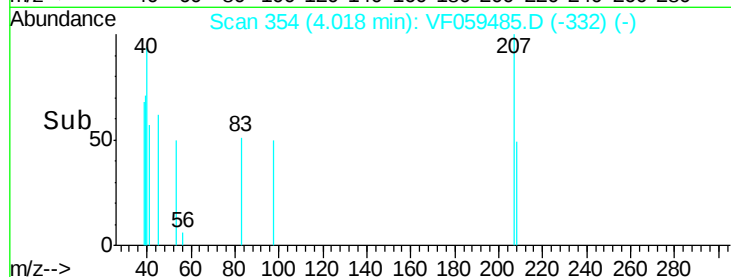
60

40

20

0

Time--> 3.98 4.00 4.02 4.04



#31

Cyclohexane

Concen: 4.07 ug/l

RT: 3.80 min Scan# 332

Delta R.T. -0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

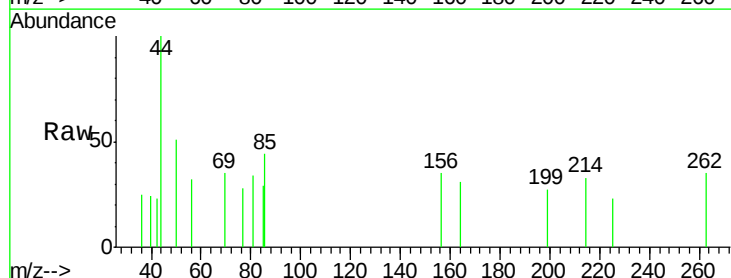
Tgt Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

69 108.7 26.2 39.2#

84 0.0 72.3 108.5#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

200

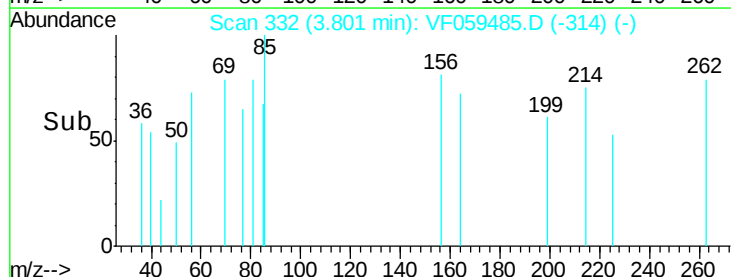
150

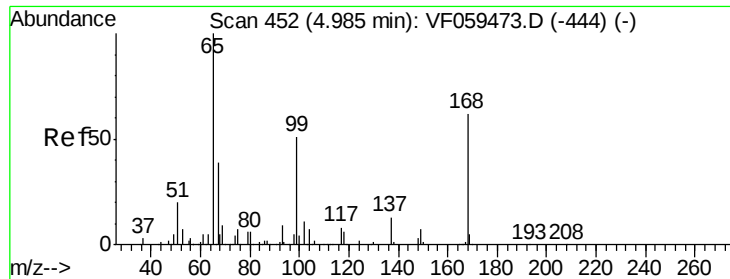
100

50

0

Time--> 3.78 3.80 3.82

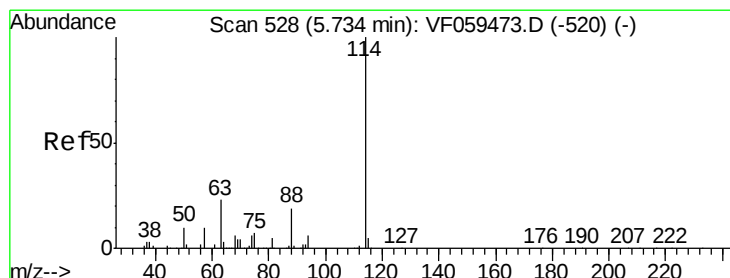
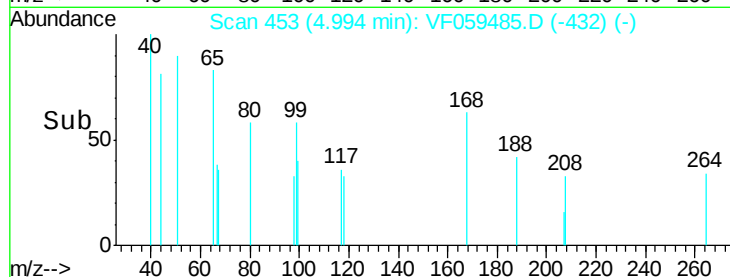
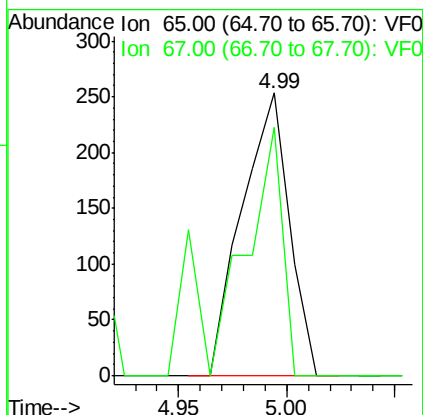
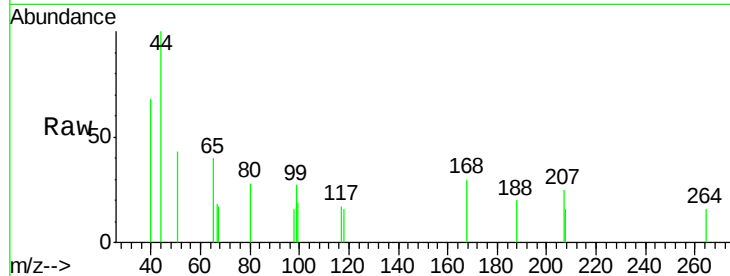




#33
 1,2-Dichloroethane-d4
 Concen: 11.67 ug/l
 RT: 4.99 min Scan# 453
 Delta R.T. 0.01 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

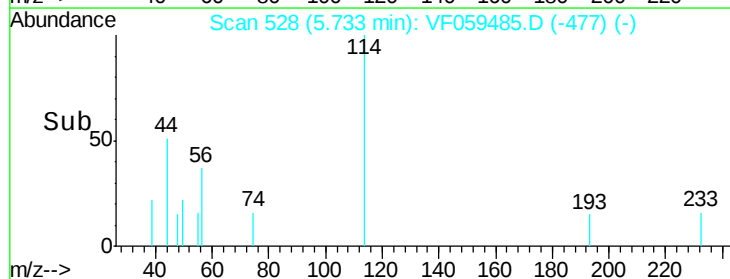
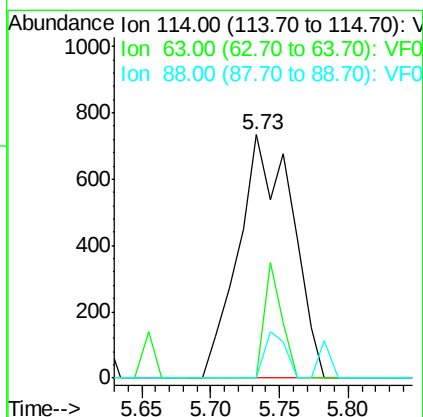
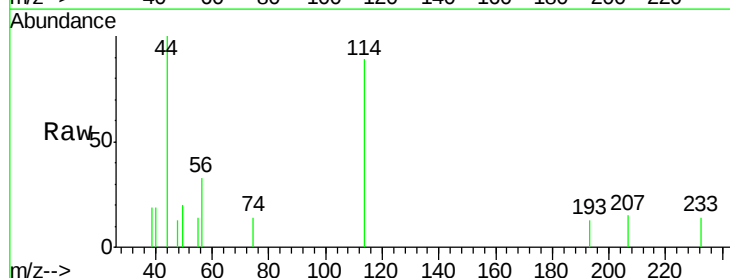
Instrument :
 MSVOA_F
 ClientSampleID :
 JC-SOILRE

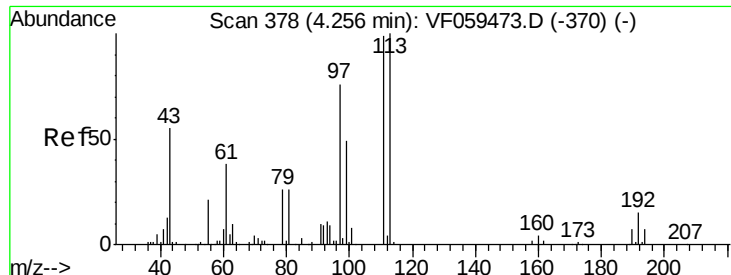
Tot Ion: 65 Resp: 388
 Ion Ratio Lower Upper
 65 100
 67 88.1 0.0 88.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.73 min Scan# 528
 Delta R.T. -0.00 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Tgt Ion: 114 Resp: 1991
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 47.2
 88 0.0 0.0 38.0





#35

Dibromofluoromethane

Concen: 11.41 ug/l

RT: 4.25 min Scan# 378

Delta R.T. -0.00 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

JC-SOILRE

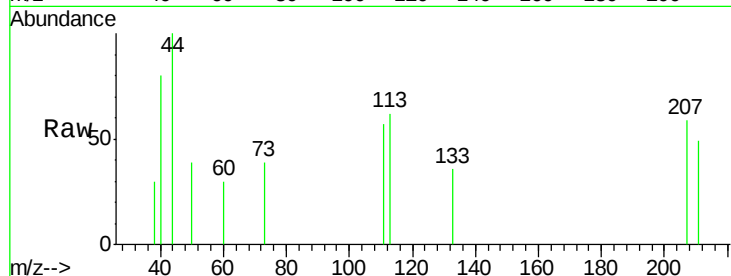
Tot Ion:113 Resp: 218

Ion Ratio Lower Upper

113 100

111 93.0 79.3 118.9

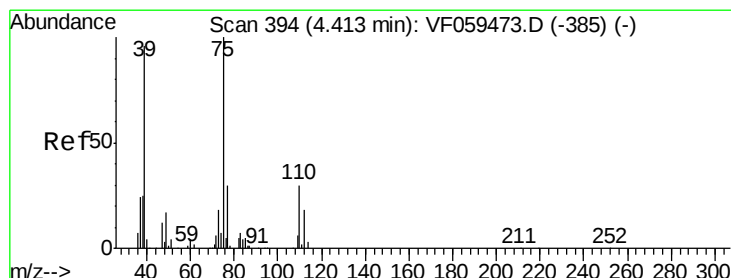
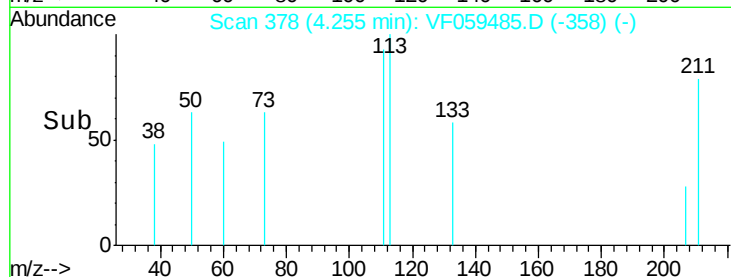
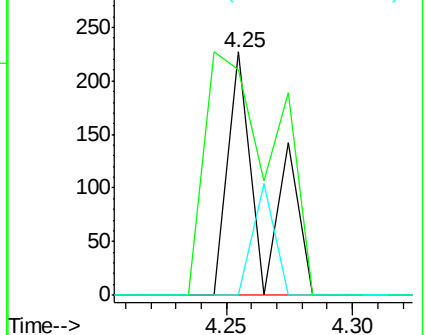
192 0.0 12.0 18.0#



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: 9.18 ug/l

RT: 4.34 min Scan# 387

Delta R.T. -0.07 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

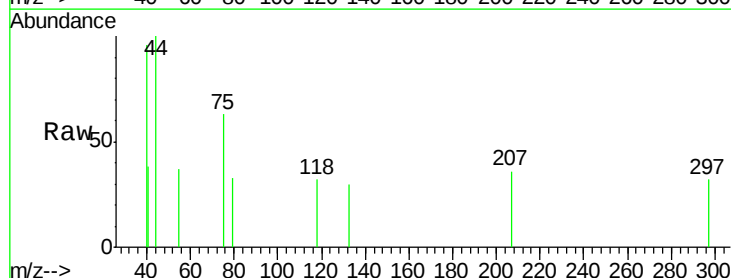
Tgt Ion: 75 Resp: 193

Ion Ratio Lower Upper

75 100

110 0.0 15.2 45.5#

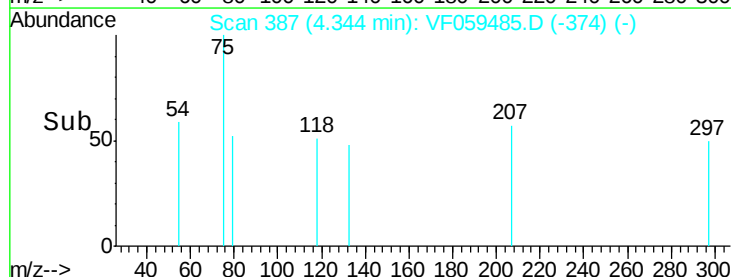
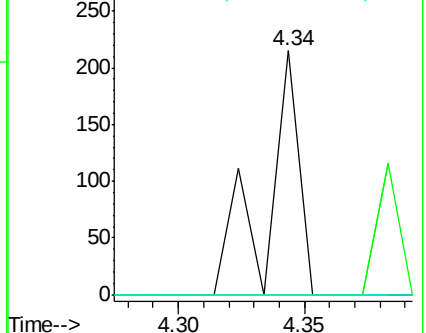
77 0.0 24.2 36.2#

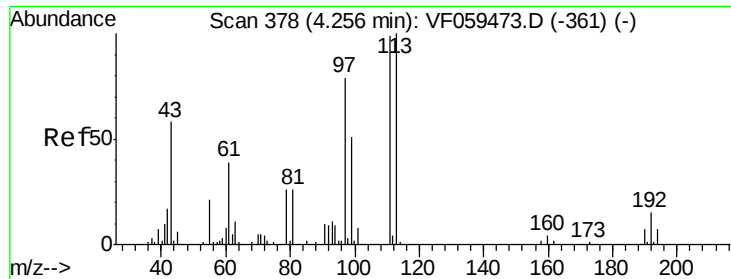


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

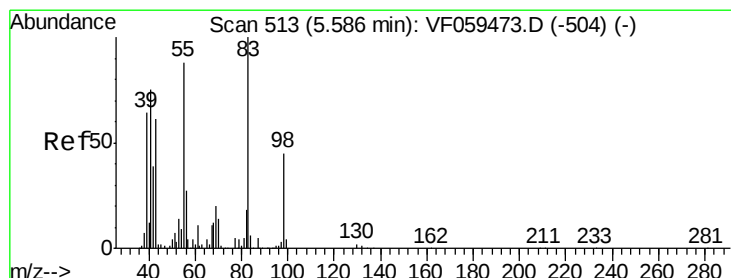
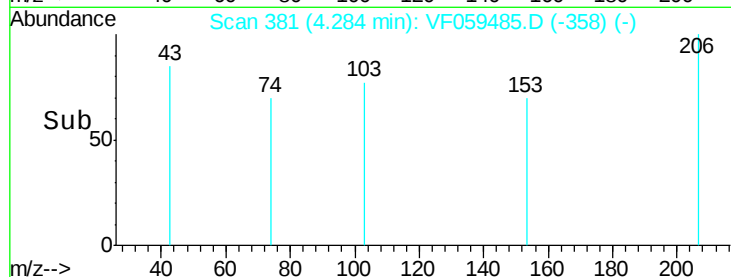
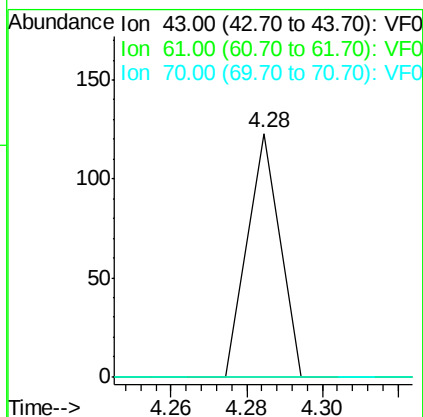
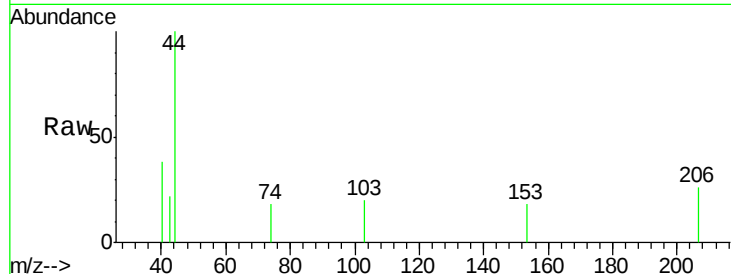




#37
Ethyl Acetate
Concen: 5.92 ug/l
RT: 4.28 min Scan# 381
Delta R.T. 0.03 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

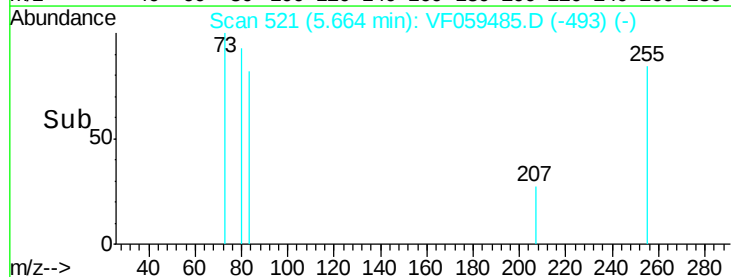
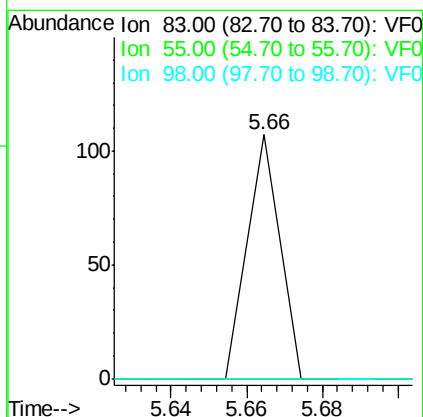
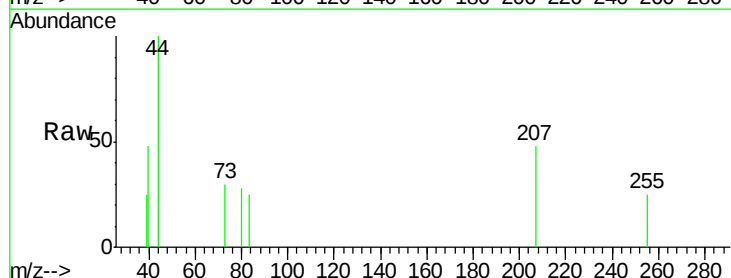
Instrument :
MSVOA_F
ClientSampleId :
JC-SOILRE

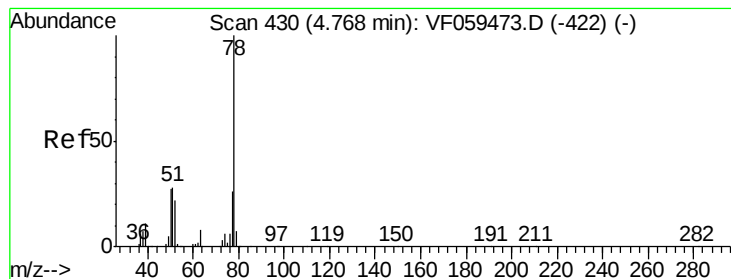
Tot Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
61 0.0 54.2 81.4#
70 0.0 7.0 10.6#



#39
Methylcyclohexane
Concen: 3.57 ug/l
RT: 5.66 min Scan# 521
Delta R.T. 0.08 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

Tgt Ion: 83 Resp: 63
Ion Ratio Lower Upper
83 100
55 0.0 70.6 105.8#
98 0.0 36.3 54.5#





#40

Benzene

Concen: 1.77 ug/l

RT: 4.88 min Scan# 441

Delta R.T. 0.11 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

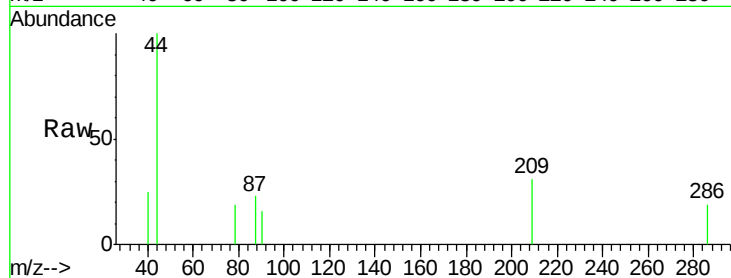
JC-SOILRE

Tot Ion: 78 Resp: 73

Ion Ratio Lower Upper

78 100

77 0.0 20.8 31.2#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

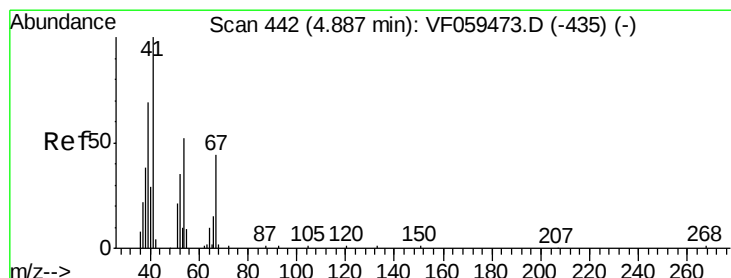
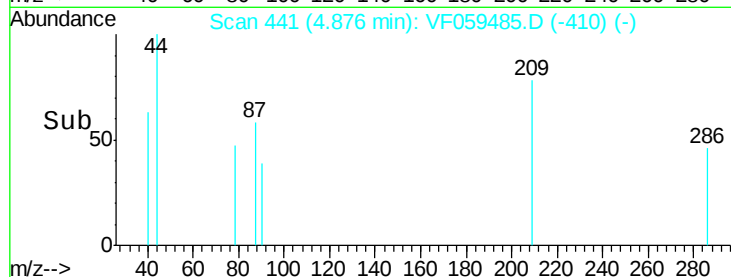
4.88

100

50

0

Time--> 4.84 4.86 4.88 4.90



#41

Methacrylonitrile

Concen: 11.29 ug/l

RT: 4.90 min Scan# 443

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Tgt Ion: 41 Resp: 64

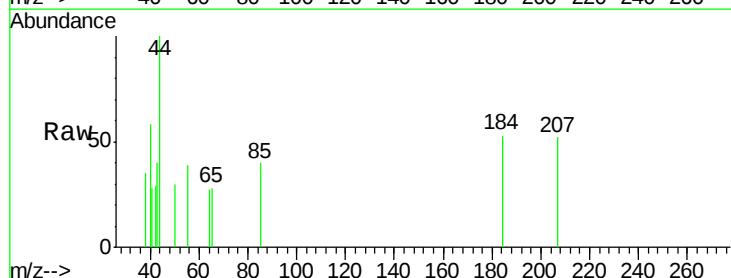
Ion Ratio Lower Upper

41 100

39 0.0 61.7 92.5#

67 0.0 35.4 53.2#

52 0.0 37.4 56.2#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

200

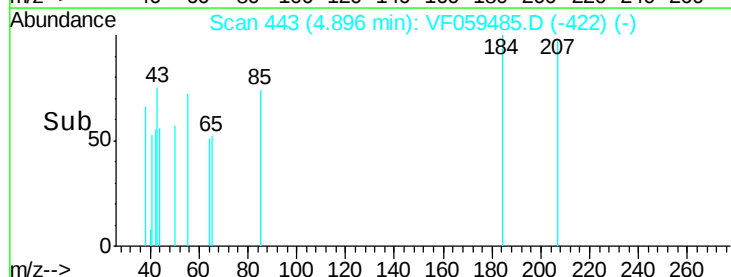
150

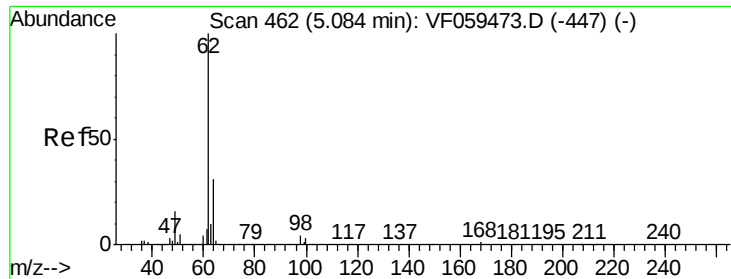
100

50

0

Time--> 4.88 4.90





#42

1,2-Dichloroethane

Concen: 2.08 ug/l

RT: 4.96 min Scan# 450

Delta R.T. -0.12 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

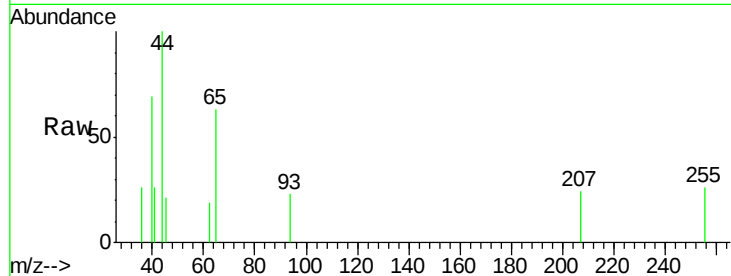
JC-SOILRE

Tot Ion: 62 Resp: 62

Ion Ratio Lower Upper

62 100

98 0.0 0.0 7.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

4.96

100

80

60

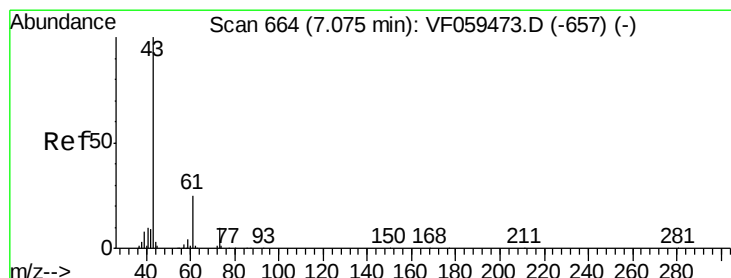
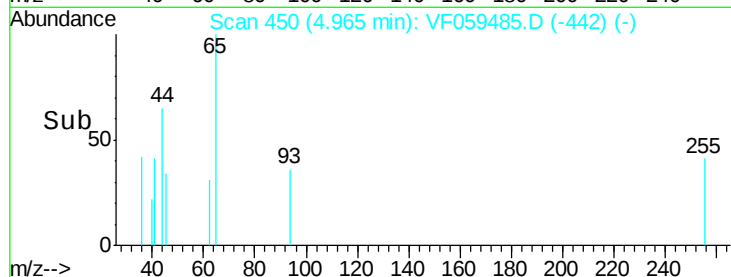
40

20

0

Time-->

4.94 4.96 4.98



#43

Isopropyl Acetate

Concen: 5.24 ug/l

RT: 7.08 min Scan# 665

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

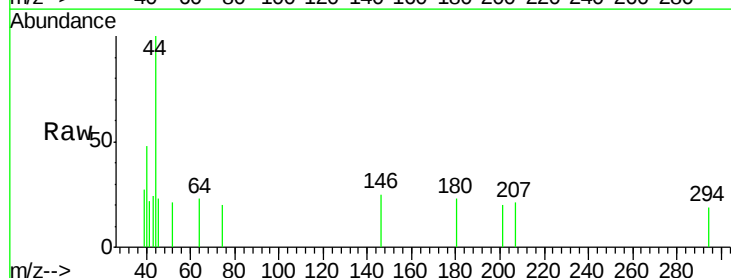
Tgt Ion: 43 Resp: 74

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

87 0.0 0.3 0.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

150

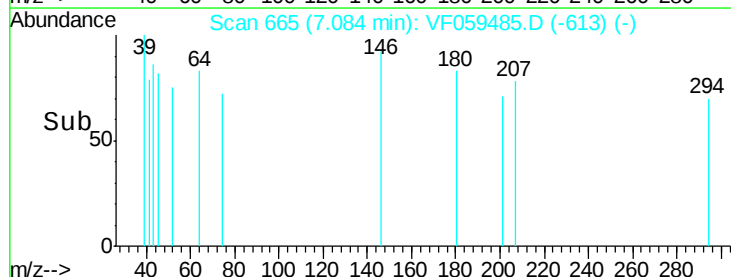
100

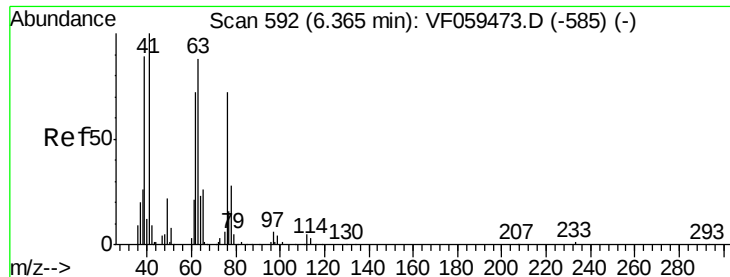
50

0

Time-->

7.06 7.08 7.10





#45

1,2-Dichloropropane

Concen: 5.32 ug/l

RT: 6.37 min Scan# 593

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

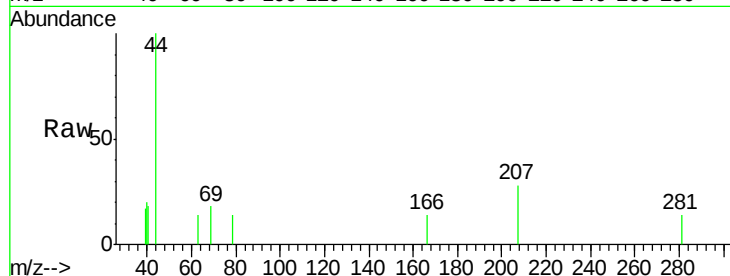
JC-SOILRE

Tot Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

65 0.0 23.5 35.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.37

120

100

80

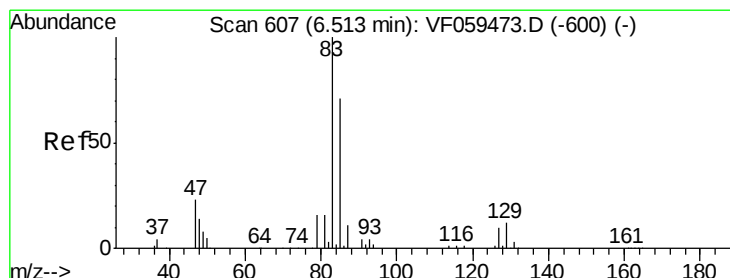
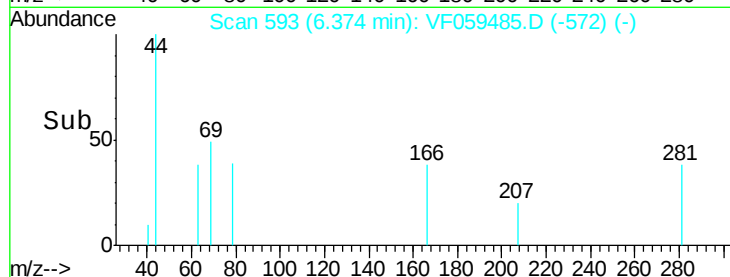
60

40

20

0

Time--> 6.34 6.36 6.38 6.40



#47

Bromodichloromethane

Concen: 2.36 ug/l

RT: 6.58 min Scan# 614

Delta R.T. 0.07 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

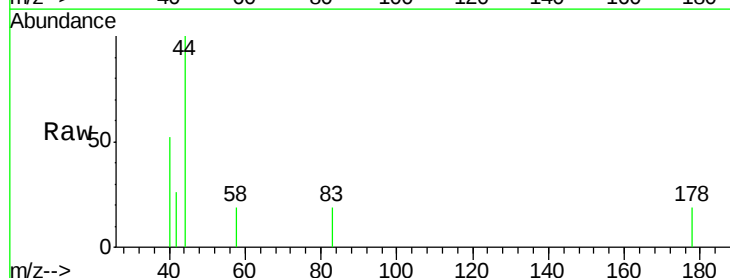
Tgt Ion: 83 Resp: 65

Ion Ratio Lower Upper

83 100

85 0.0 56.6 84.8#

127 0.0 8.1 12.1#



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

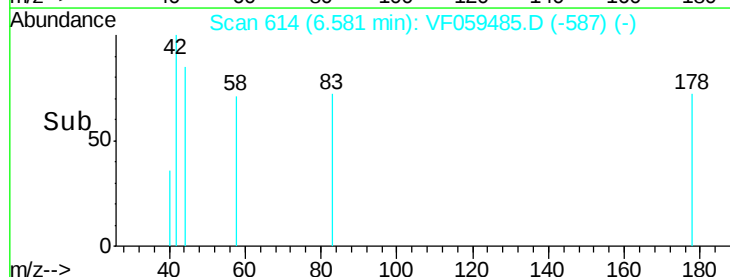
150

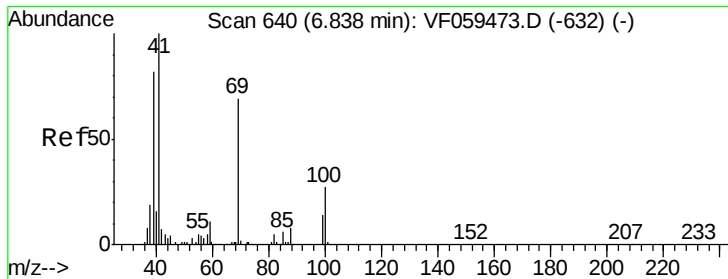
100

50

0

Time--> 6.56 6.58 6.60





#48

Methyl methacrylate

Concen: 8.73 ug/l

RT: 6.85 min Scan# 641

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampled :

JC-SOILRE

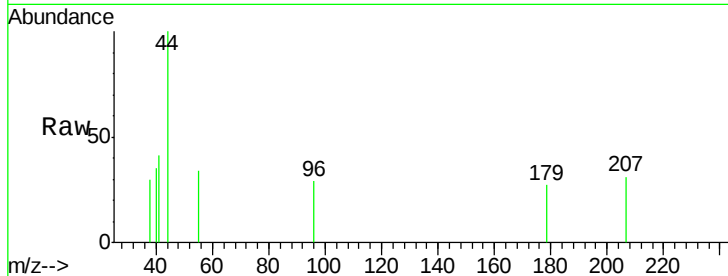
Tot Ion: 41 Resp: 88

Ion Ratio Lower Upper

41 100

69 0.0 55.6 83.4#

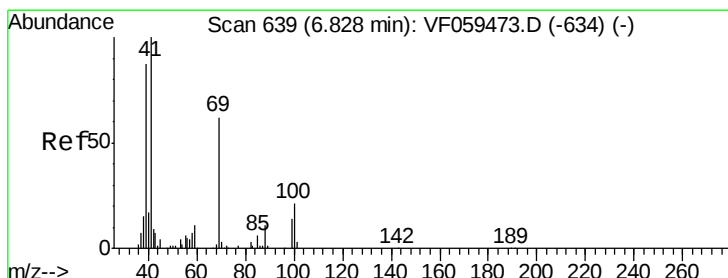
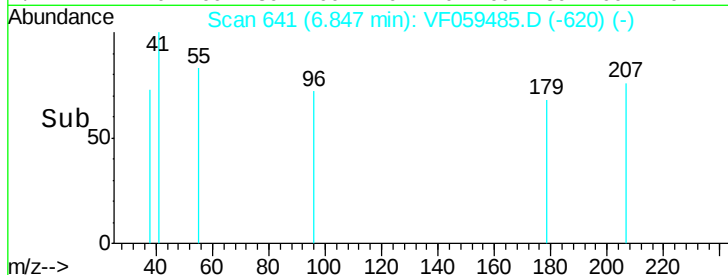
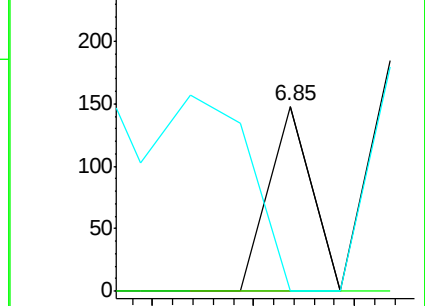
39 0.0 66.0 99.0#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#49

1,4-Dioxane

Concen: 1398.80 ug/l

RT: 6.59 min Scan# 615

Delta R.T. -0.24 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

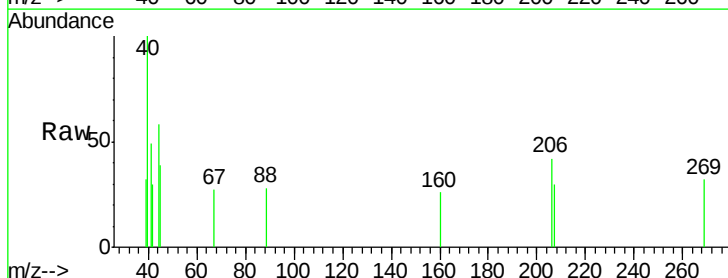
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 57.3 85.9#

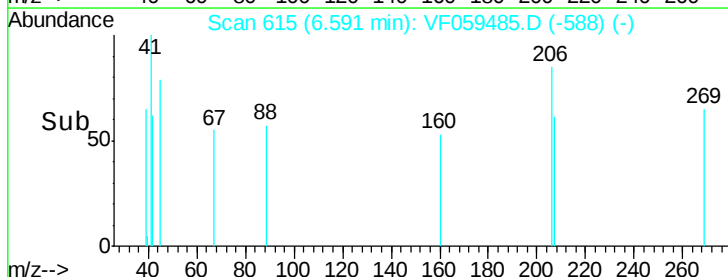
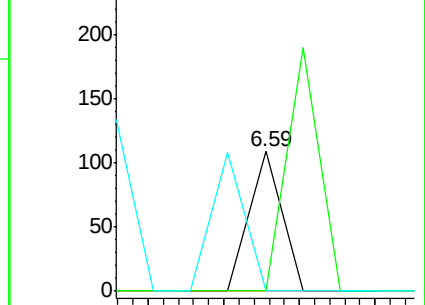
58 0.0 54.6 81.8#

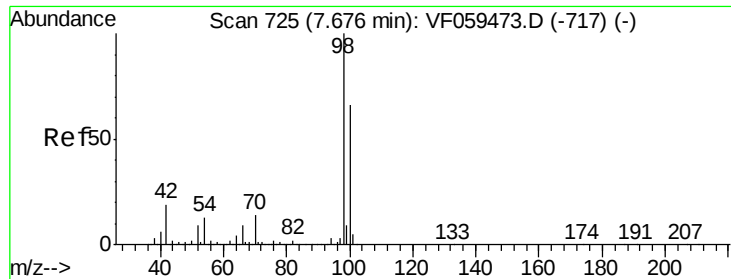


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

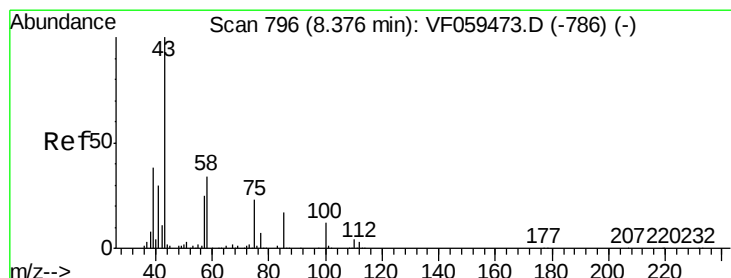
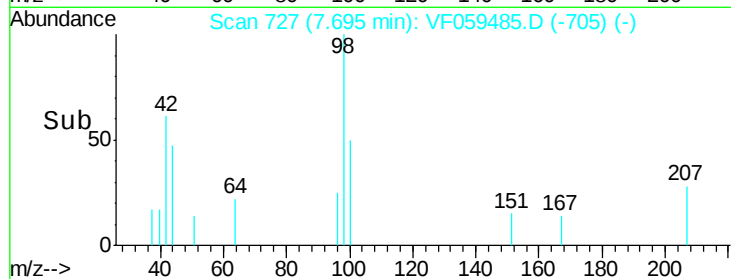
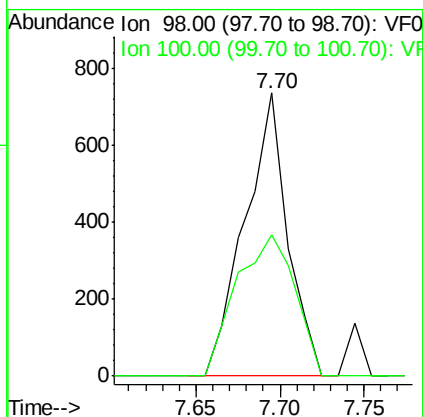
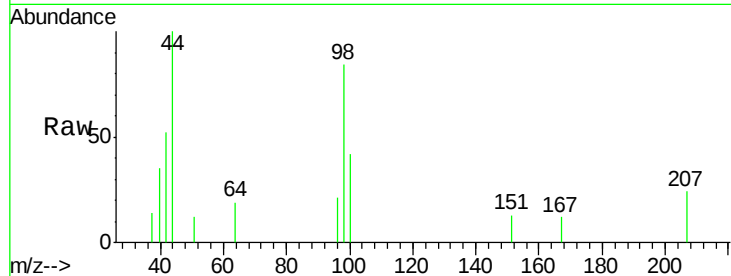




#50
Toluene-d8
Concen: 28.82 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.02 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

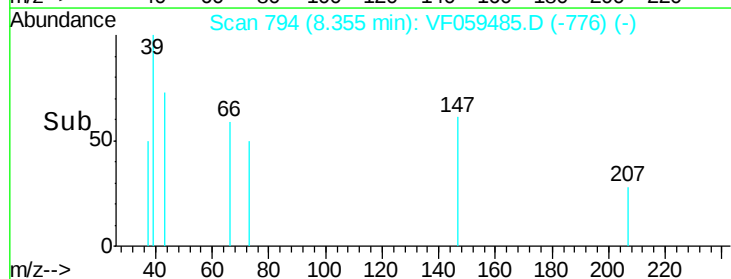
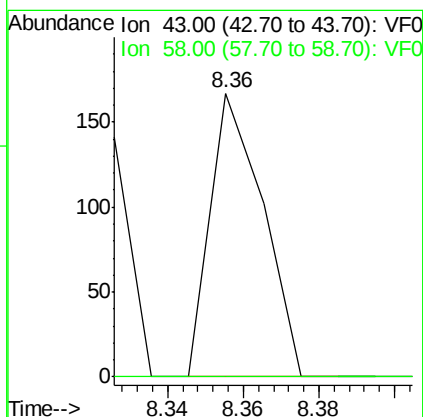
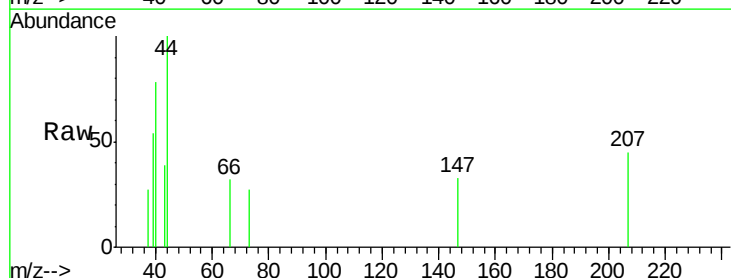
Instrument :
MSVOA_F
ClientSampleId :
JC-SOILRE

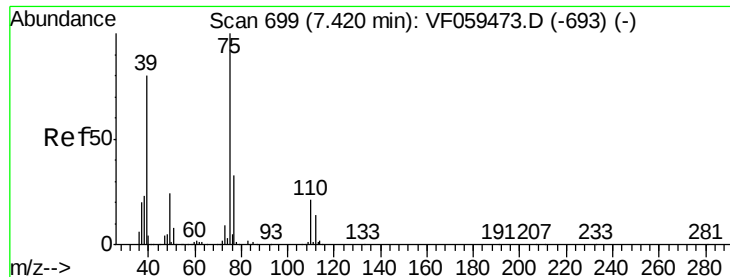
Tot Ion: 98 Resp: 1295
Ion Ratio Lower Upper
98 100
100 49.9 52.6 78.8#



#51
4-Methyl-2-Pentanone
Concen: 15.10 ug/l
RT: 8.36 min Scan# 794
Delta R.T. -0.02 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

Tgt Ion: 43 Resp: 159
Ion Ratio Lower Upper
43 100
58 0.0 27.4 41.2#





#54

cis-1,3-Dichloropropene

Concen: 2.98 ug/l

RT: 7.40 min Scan# 697

Delta R.T. -0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

JC-SOILRE

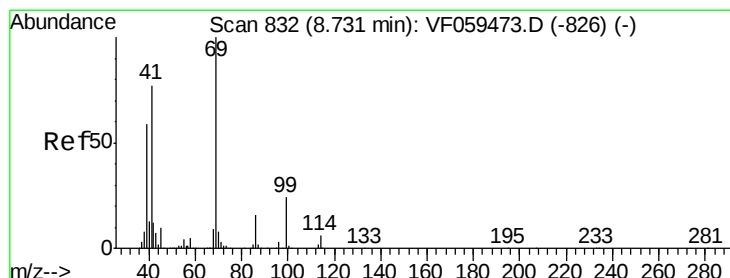
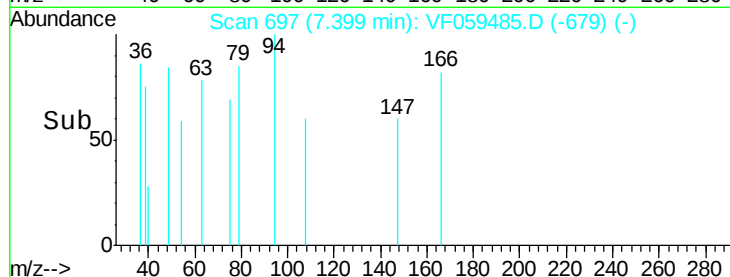
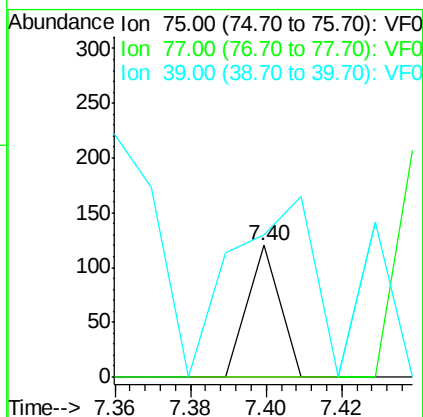
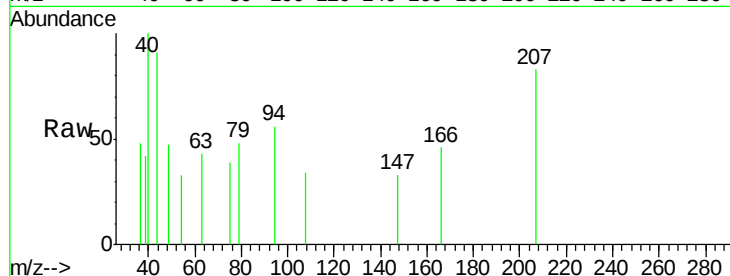
Tot Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.4#

39 367.5 64.5 96.7#



#56

Ethyl methacrylate

Concen: 5.08 ug/l

RT: 8.71 min Scan# 830

Delta R.T. -0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

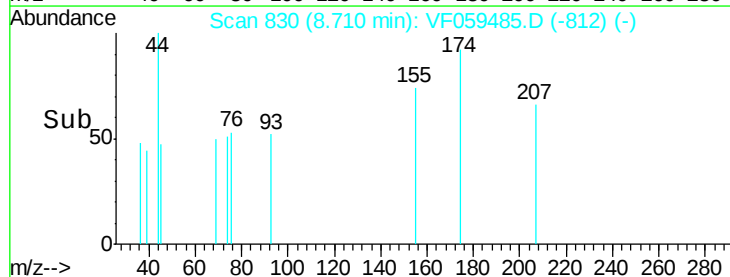
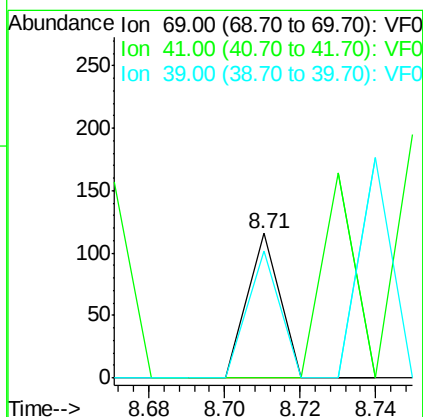
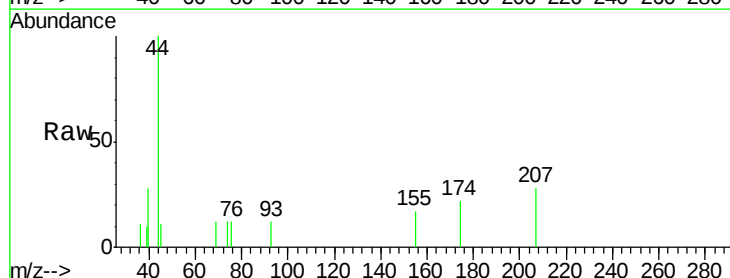
Tgt Ion: 69 Resp: 69

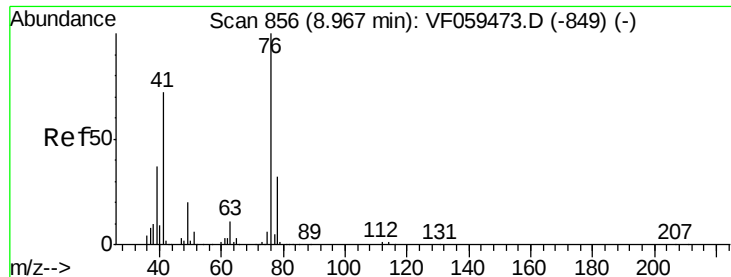
Ion Ratio Lower Upper

69 100

41 0.0 62.2 93.4#

39 87.9 47.7 71.5#





#57

1,3-Dichloropropane

Concen: 3.02 ug/l

RT: 9.08 min Scan# 868

Delta R.T. 0.12 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

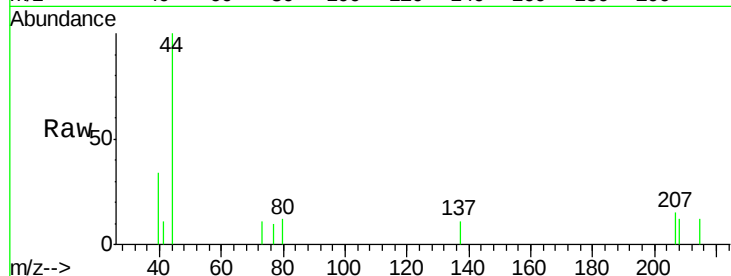
JC-SOILRE

Tot Ion: 76 Resp: 62

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

150

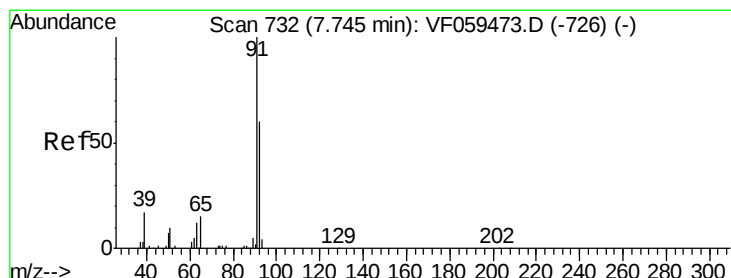
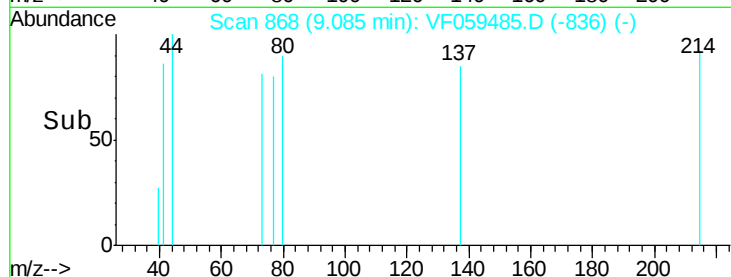
100

50

0

9.06 9.08 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 63.03 ug/l

RT: 7.84 min Scan# 742

Delta R.T. 0.10 min

Lab File: VF059485.D

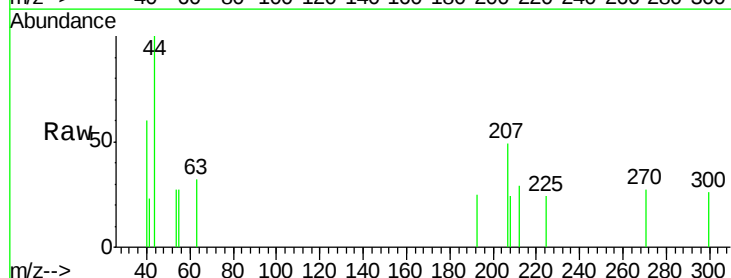
Acq: 10 Jul 2018 15:37

Tgt Ion: 63 Resp: 82

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

150

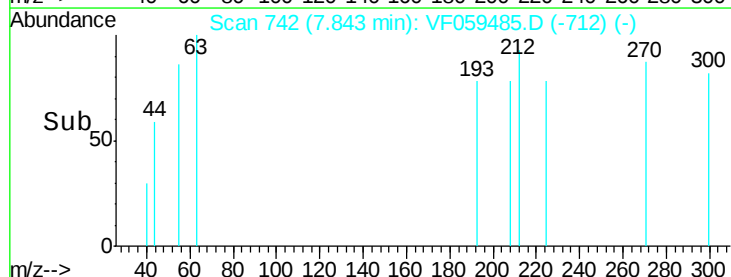
100

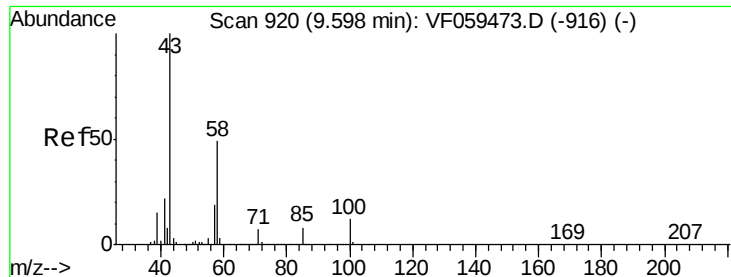
50

0

7.82 7.84 7.86

Time-->





#59

2-Hexanone

Concen: 21.73 ug/l

RT: 9.66 min Scan# 926

Delta R.T. 0.06 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

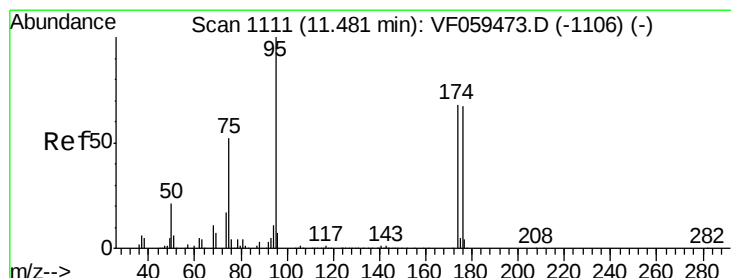
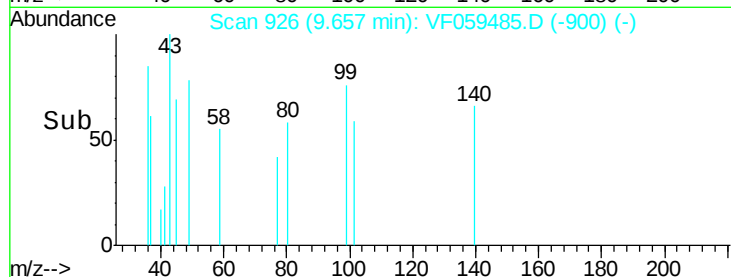
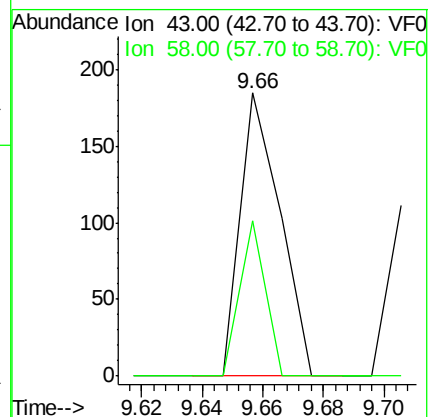
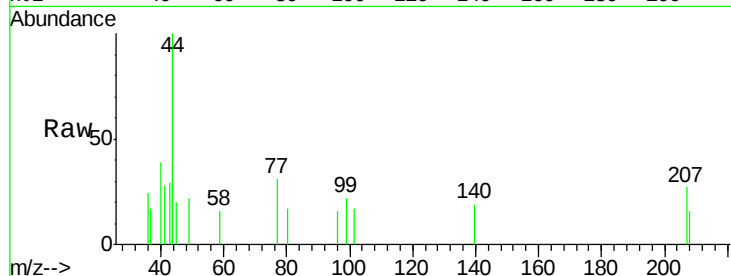
JC-SOILRE

Tot Ion: 43 Resp: 170

Ion Ratio Lower Upper

43 100

58 54.6 22.4 67.2



#62

4-Bromofluorobenzene

Concen: 8.62 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

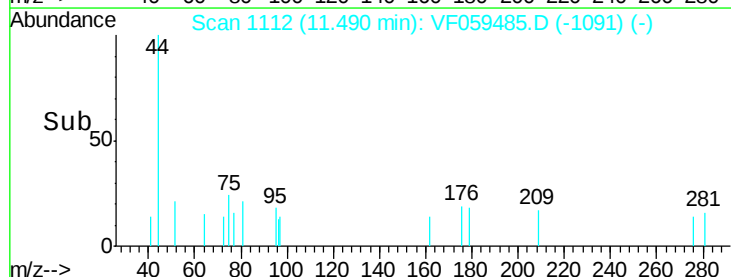
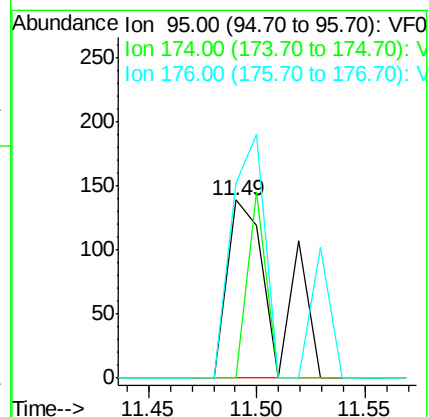
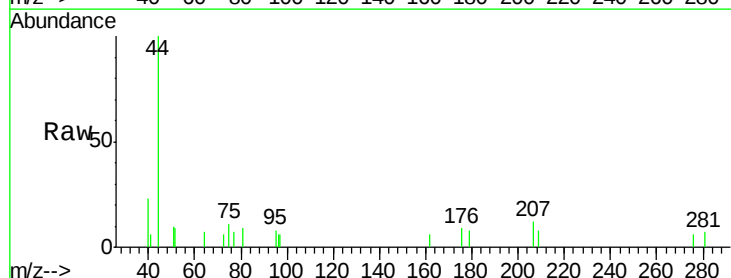
Tgt Ion: 95 Resp: 216

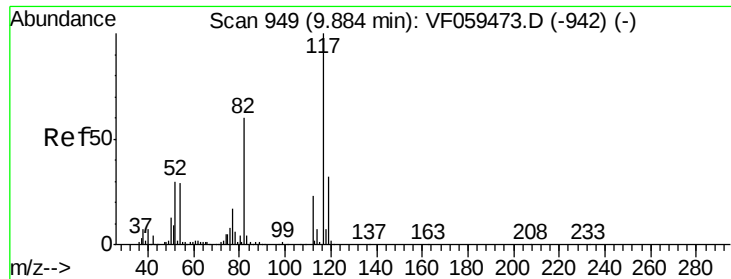
Ion Ratio Lower Upper

95 100

174 0.0 0.0 137.0

176 109.4 0.0 133.8

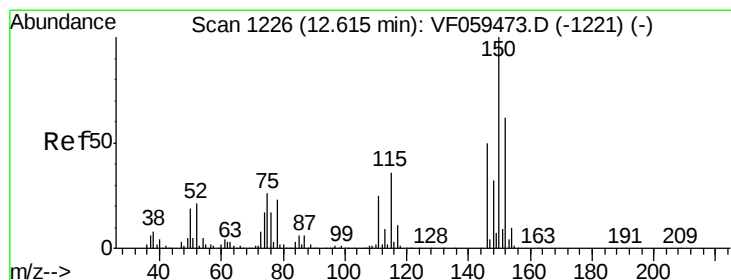
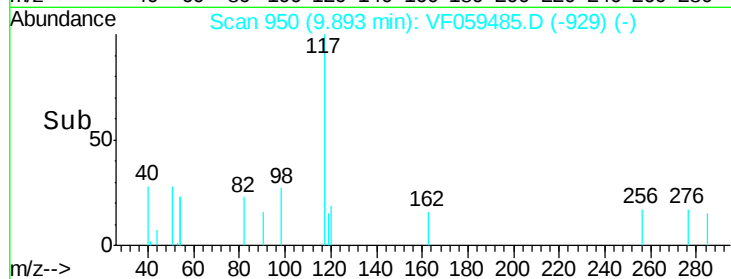
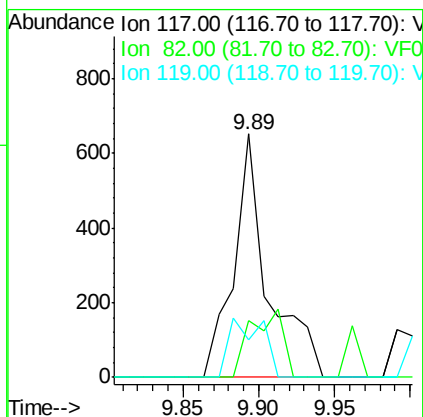
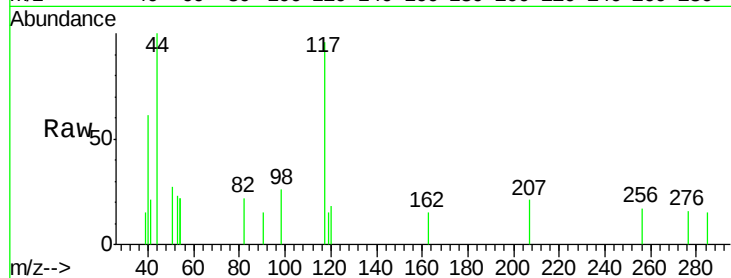




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.89 min Scan# 950
Delta R.T. 0.01 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

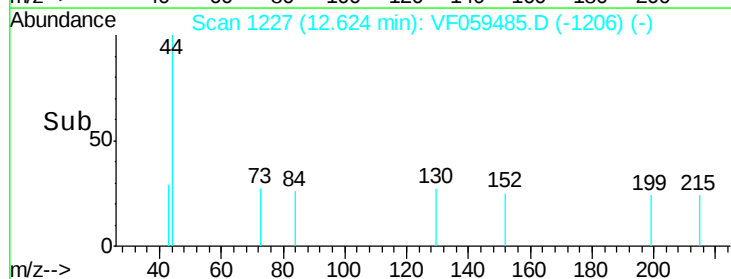
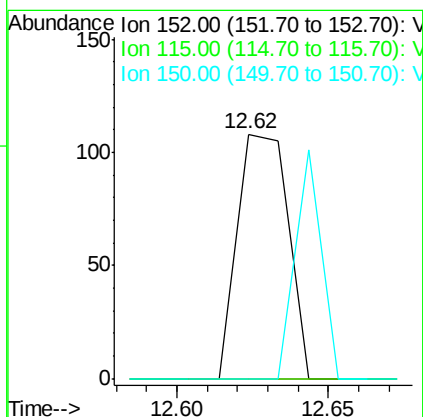
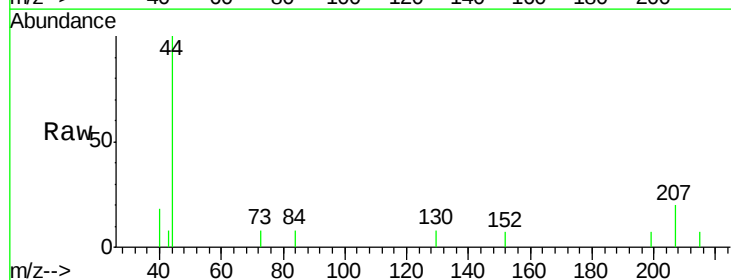
Instrument :
MSVOA_F
ClientSampleId :
JC-SOILRE

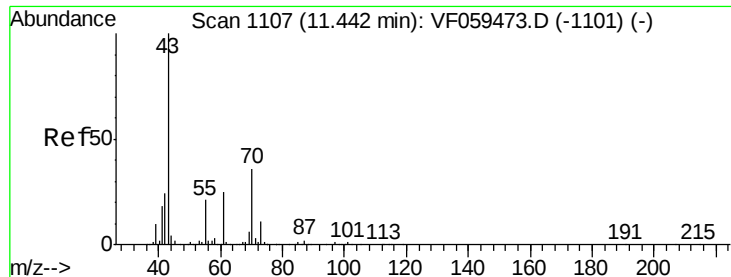
Tot Ion:117 Resp: 1026
Ion Ratio Lower Upper
117 100
82 23.0 48.2 72.4#
119 15.3 25.7 38.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF059485.D
Acq: 10 Jul 2018 15:37

Tgt Ion:152 Resp: 126
Ion Ratio Lower Upper
152 100
115 0.0 28.7 86.3#
150 0.0 0.0 323.8





#74

N-amvl acetate

Concen: 94.53 ug/l

RT: 11.41 min Scan# 1104

Delta R.T. -0.03 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

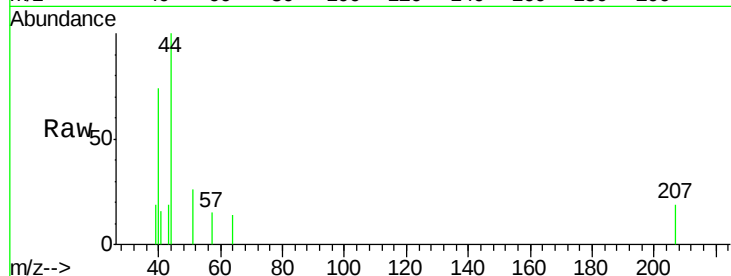
MSVOA_F

ClientSampleId :

JC-SOILRE

Tot Ion: 43 Resp: 221

Ion	Ratio	Lower	Upper
43	100		
70	0.0	28.7	43.1#
55	0.0	16.6	24.8#
61	0.0	20.1	30.1#

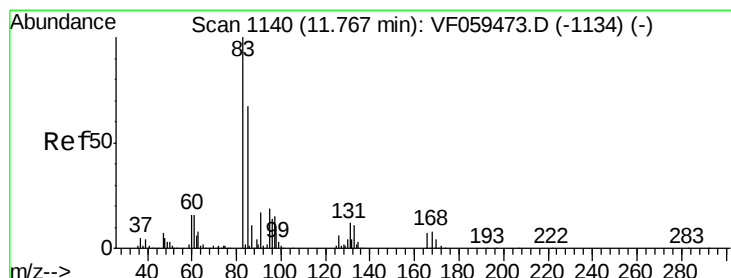
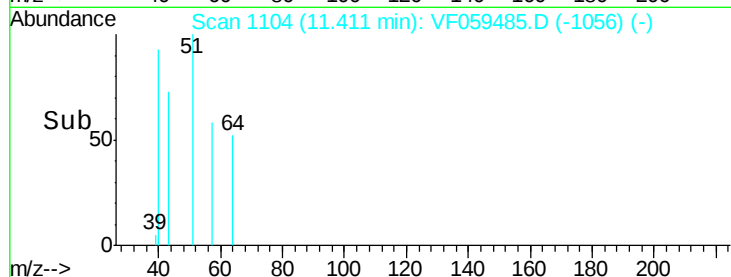
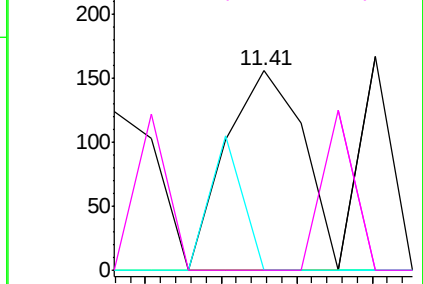


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 40.21 ug/l

RT: 11.84 min Scan# 1148

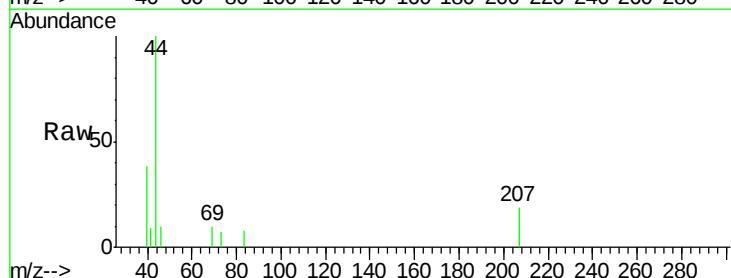
Delta R.T. 0.08 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Tgt Ion: 83 Resp: 70

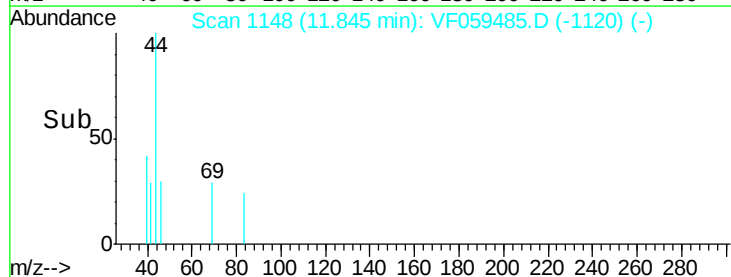
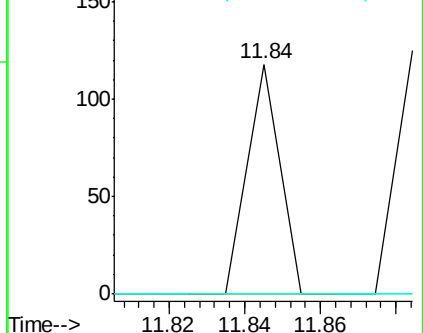
Ion	Ratio	Lower	Upper
83	100		
131	0.0	6.0	18.0#
85	0.0	33.7	101.1#

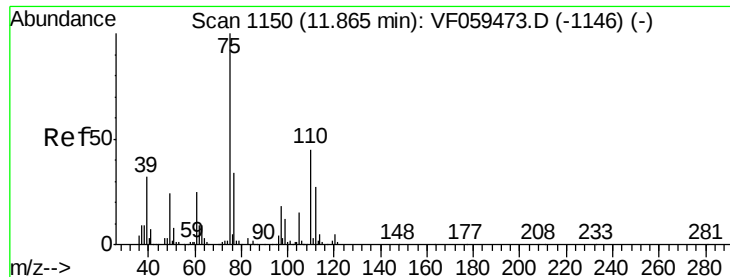


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 45.15 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.10 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampled :

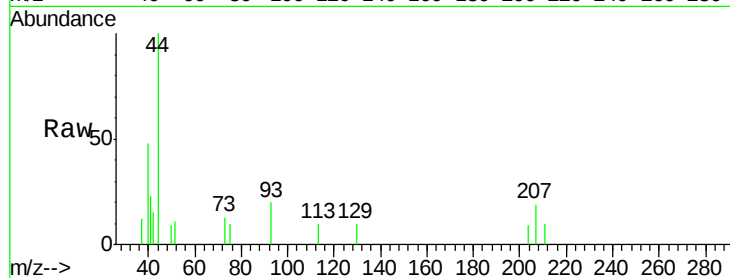
JC-SOILRE

Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 0.0 16.9 50.6#

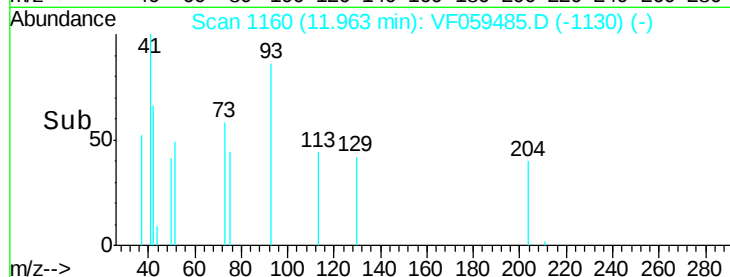


Abundance Ion 75.00 (74.70 to 75.70): VF0

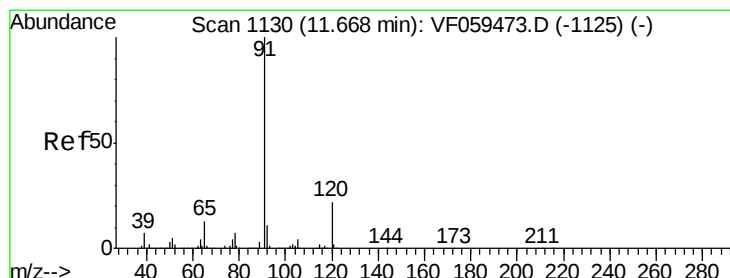
Ion 77.00 (76.70 to 77.70): VF0

11.96

11.98



Time-->



#78

n-propylbenzene

Concen: 6.74 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.08 min

Lab File: VF059485.D

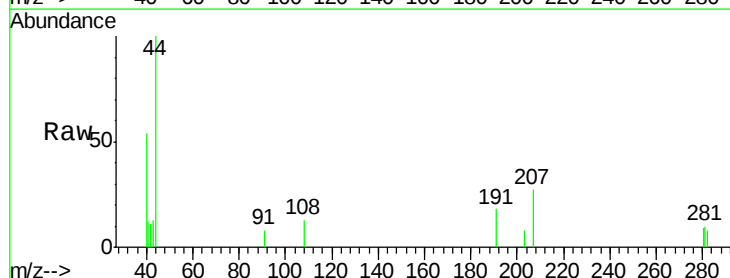
Acq: 10 Jul 2018 15:37

Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#

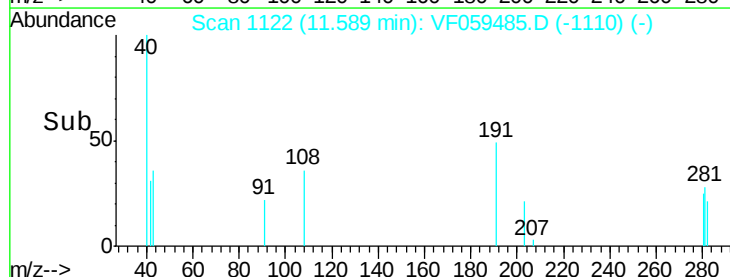


Abundance Ion 91.00 (90.70 to 91.70): VF0

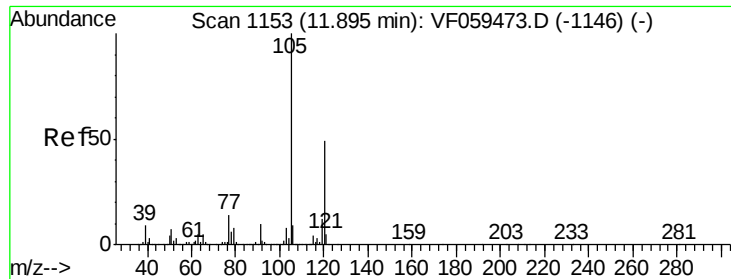
Ion 120.00 (119.70 to 120.70): V

11.59

11.62



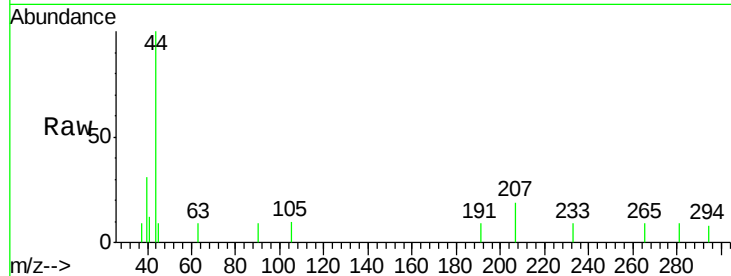
Time-->



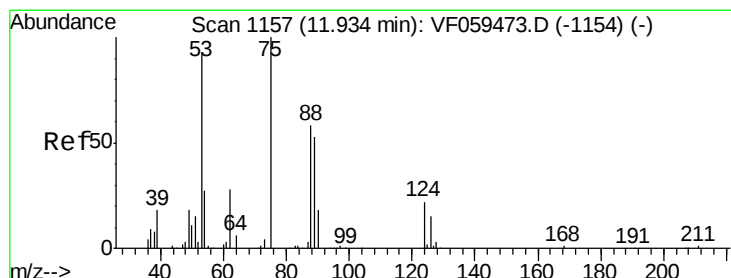
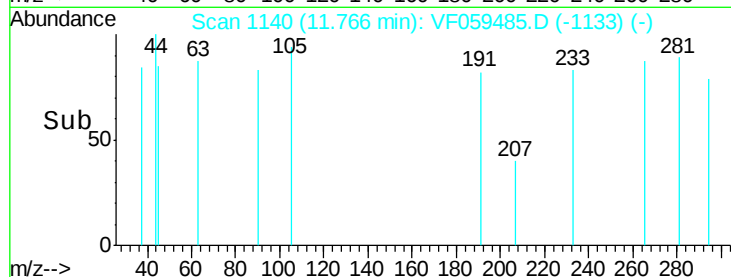
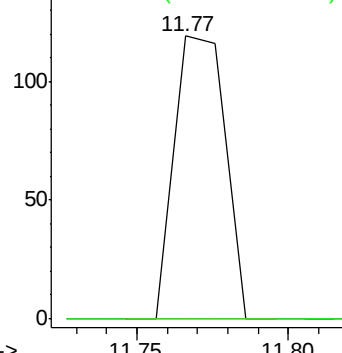
#80
 1,3,5-Trimethylbenzene
 Concen: 20.48 ug/l
 RT: 11.77 min Scan# 1140
 Delta R.T. -0.13 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-SOILRE

Tot Ion:105 Resp: 139
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.4 73.2#

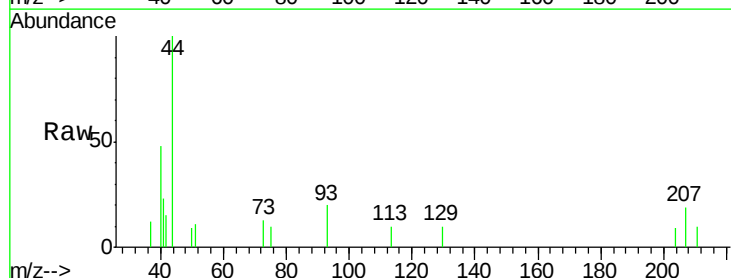


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

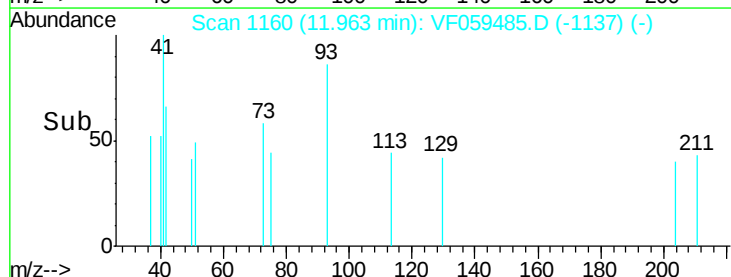
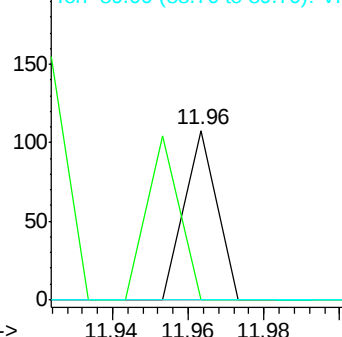


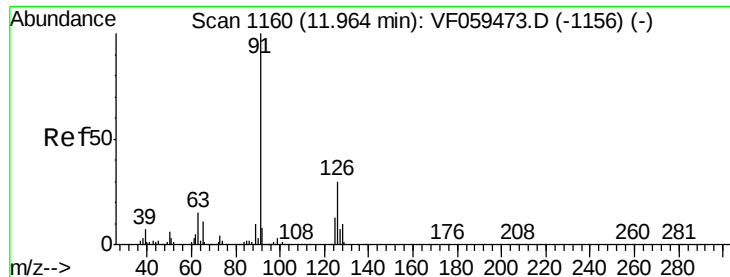
#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.04 ug/l
 RT: 11.96 min Scan# 1160
 Delta R.T. 0.03 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Tgt Ion: 75 Resp: 64
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.0 118.6#
 89 0.0 45.9 68.9#



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





#82

4-Chlorotoluene

Concen: 13.10 ug/l

RT: 12.01 min Scan# 1165

Delta R.T. 0.05 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampled :

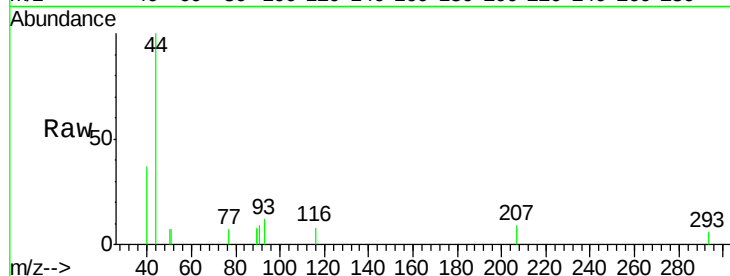
JC-SOILRE

Tot Ion: 91 Resp: 79

Ion Ratio Lower Upper

91 100

126 0.0 14.9 44.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

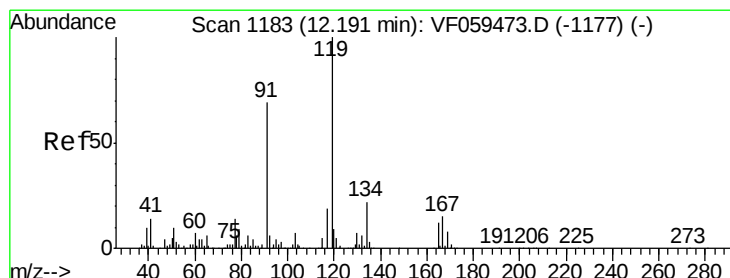
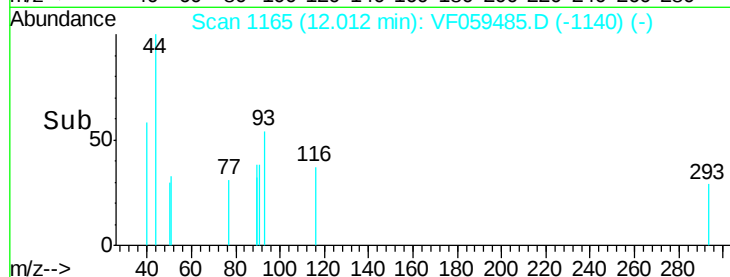
12.01

100

50

0

Time--> 11.98 12.00 12.02 12.04



#83

tert-Butylbenzene

Concen: 11.06 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

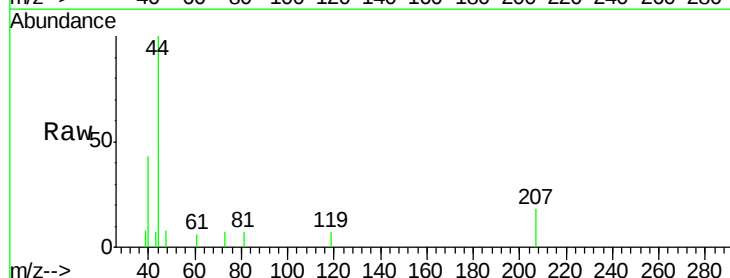
Tgt Ion: 119 Resp: 73

Ion Ratio Lower Upper

119 100

91 0.0 34.4 103.3#

134 0.0 10.8 32.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

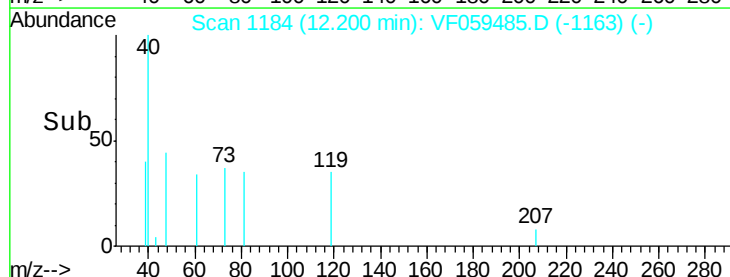
12.20

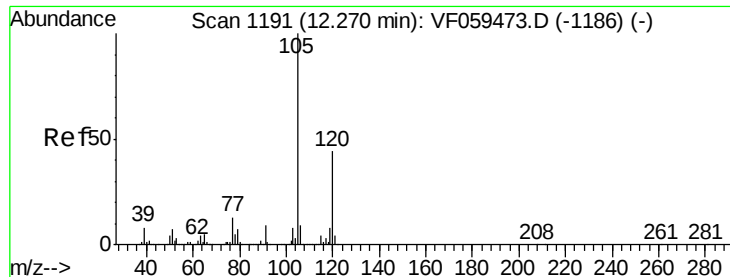
100

50

0

Time--> 12.18 12.20 12.22

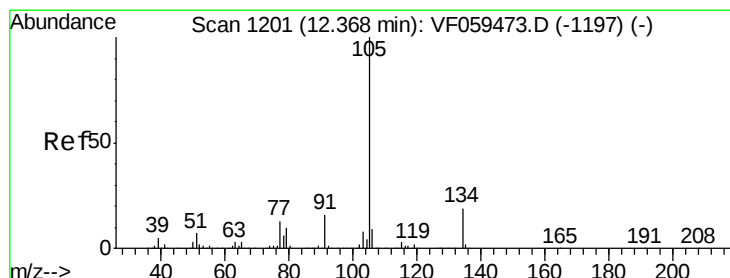
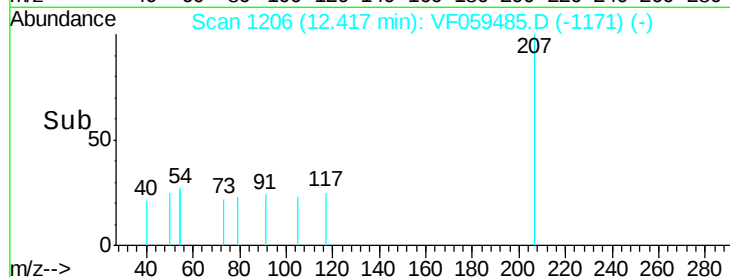
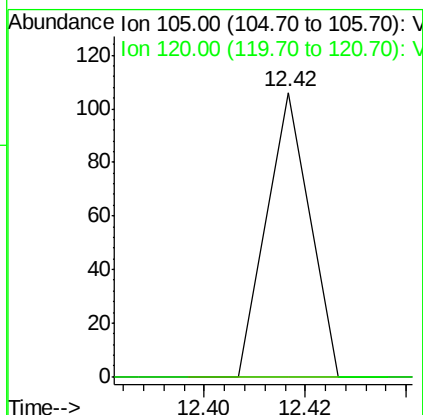
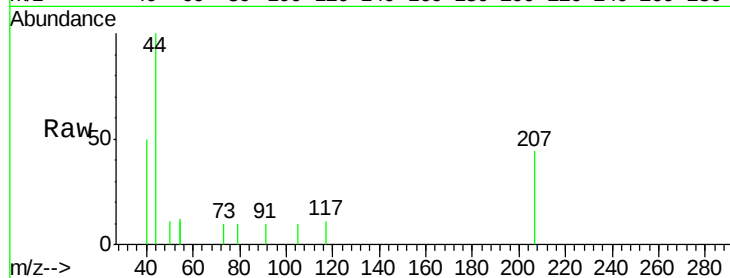




#84
 1,2,4-Trimethylbenzene
 Concen: 8.83 ug/l
 RT: 12.42 min Scan# 1206
 Delta R.T. 0.15 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

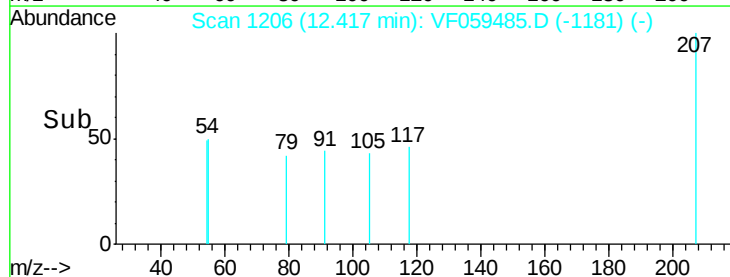
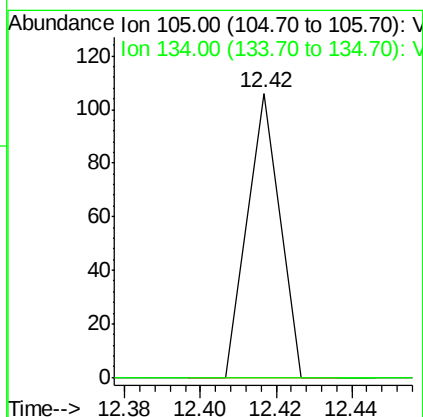
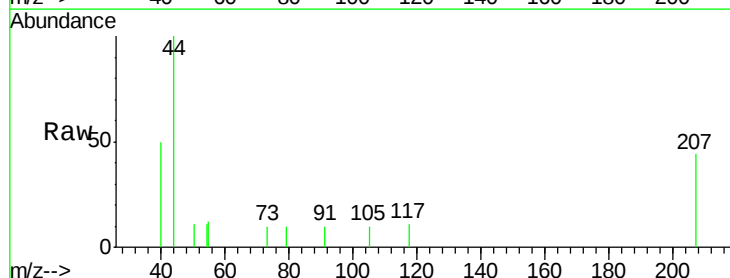
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-SOILRE

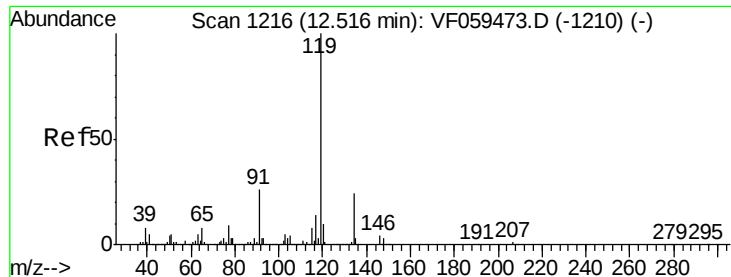
Tot Ion:105 Resp: 63
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.1 66.1#



#85
 sec-Butylbenzene
 Concen: 7.07 ug/l
 RT: 12.42 min Scan# 1206
 Delta R.T. 0.05 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Tgt Ion:105 Resp: 63
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.6 28.6#

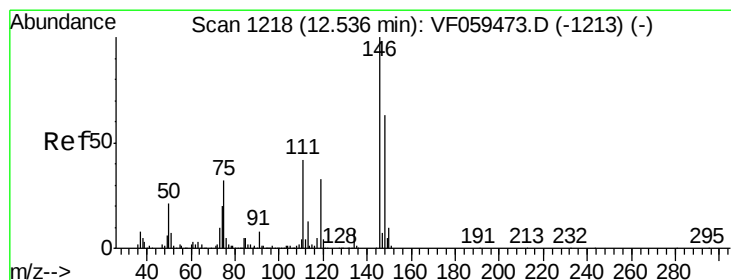
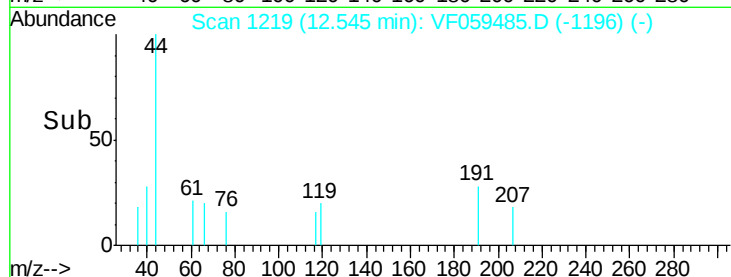
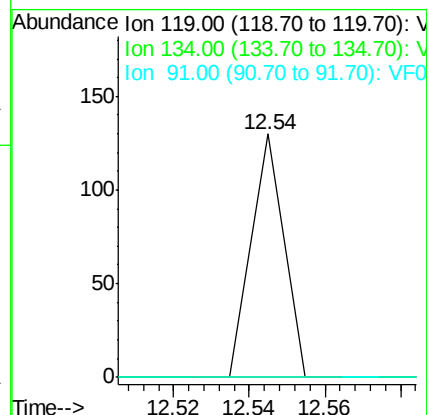
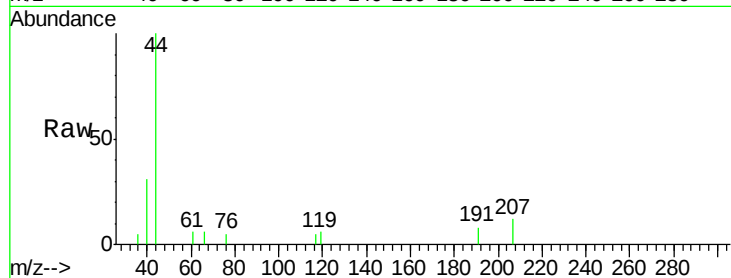




#86
 p-Isopropyltoluene
 Concen: 10.11 ug/l
 RT: 12.54 min Scan# 1219
 Delta R.T. 0.03 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

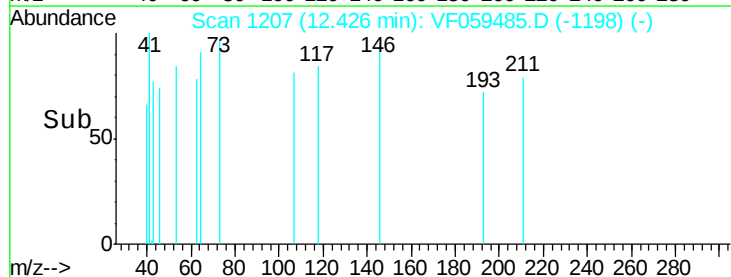
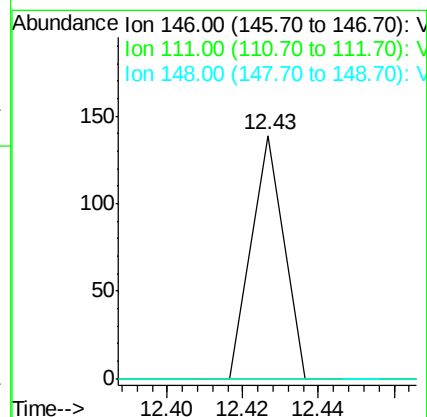
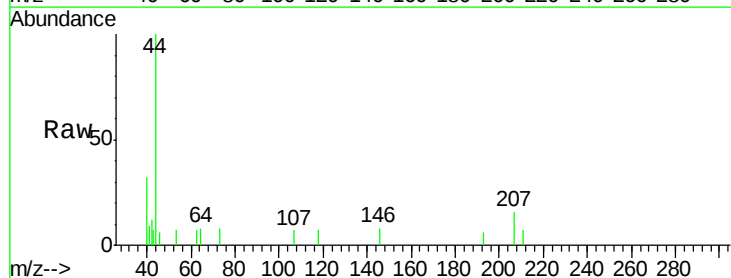
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-SOILRE

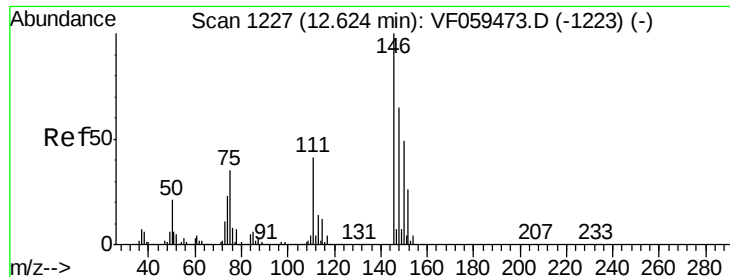
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.2	36.4#
91	0.0	13.1	39.3#



#87
 1,3-Dichlorobenzene
 Concen: 20.43 ug/l
 RT: 12.43 min Scan# 1207
 Delta R.T. -0.11 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.0	63.0#
148	0.0	31.6	94.8#





#88

1,4-Dichlorobenzene

Concen: 17.91 ug/l

RT: 12.73 min Scan# 1238

Delta R.T. 0.11 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

JC-SOILRE

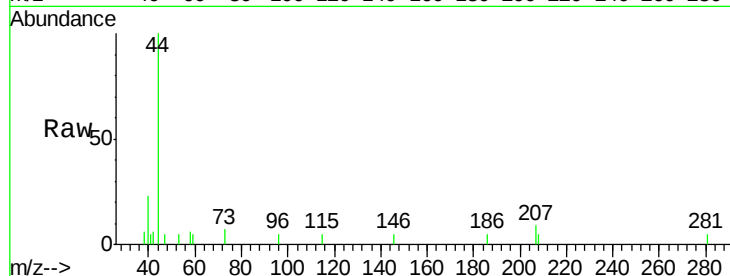
Tot Ion:146 Resp: 70

Ion Ratio Lower Upper

146 100

111 0.0 20.8 62.2#

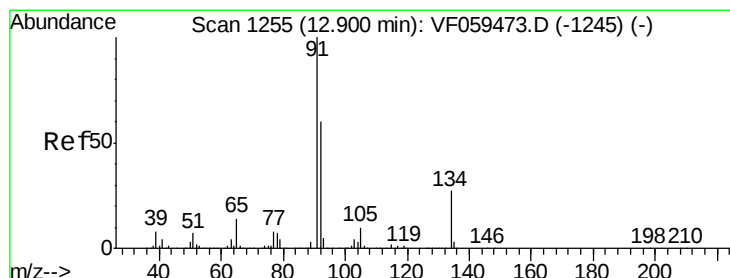
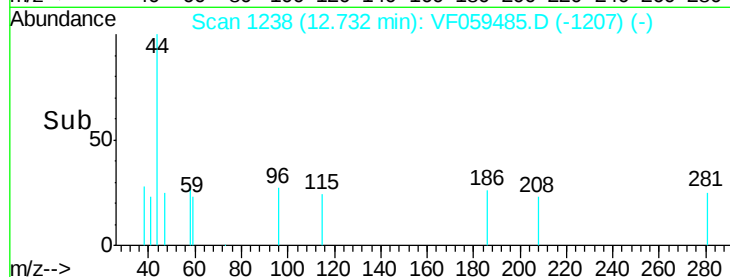
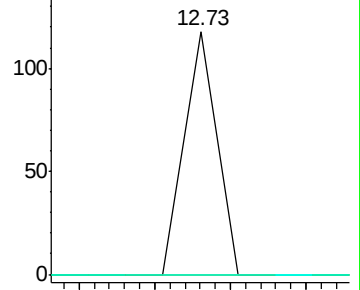
148 0.0 32.6 97.8#



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



#89

n-Butylbenzene

Concen: 10.51 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.02 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

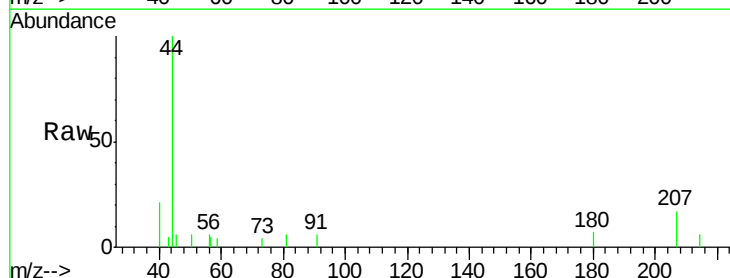
Tgt Ion: 91 Resp: 78

Ion Ratio Lower Upper

91 100

92 0.0 30.0 90.1#

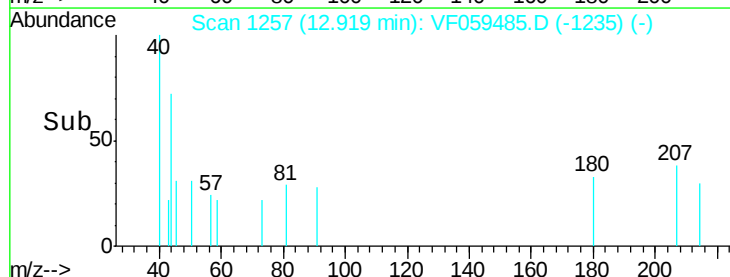
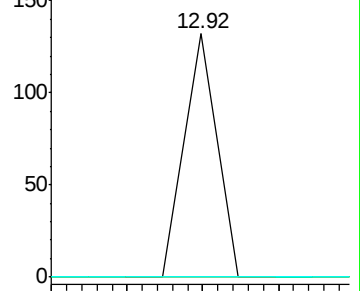
134 0.0 13.3 39.9#

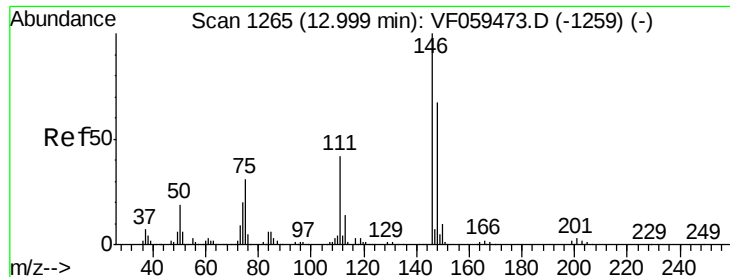


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 15.07 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

Instrument :

MSVOA_F

ClientSampleId :

JC-SOILRE

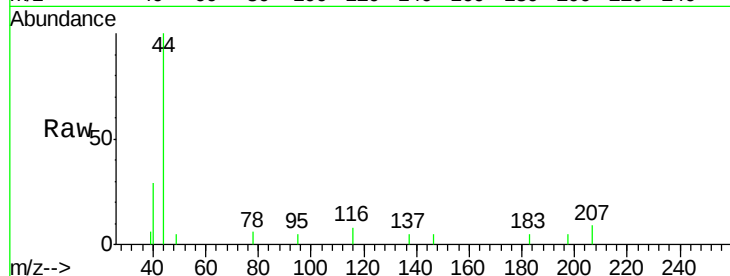
Tot Ion:146 Resp: 60

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

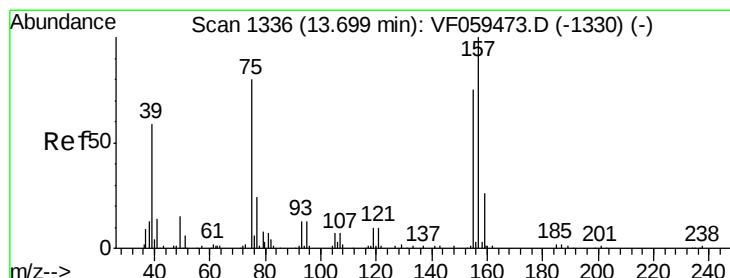
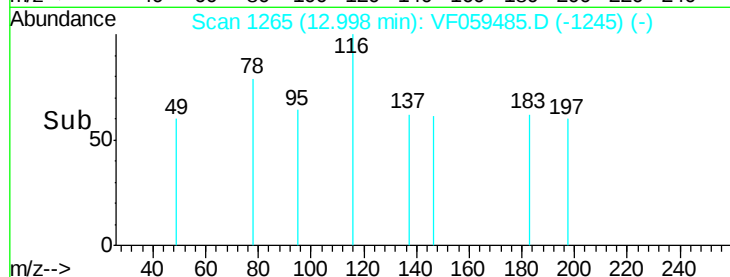
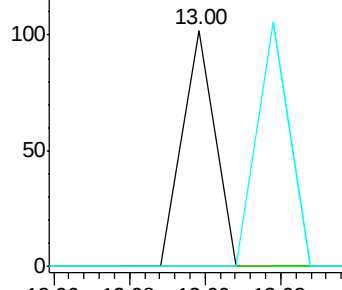
148 0.0 33.3 99.9#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 144.53 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.03 min

Lab File: VF059485.D

Acq: 10 Jul 2018 15:37

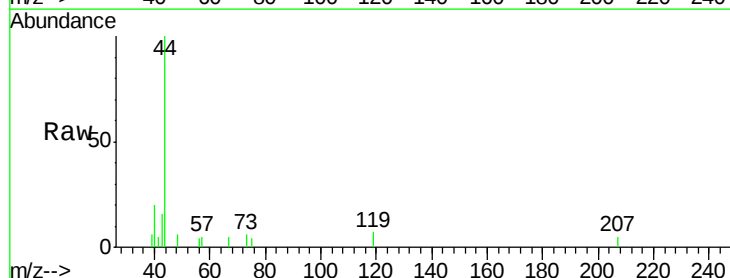
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 47.3 141.8#

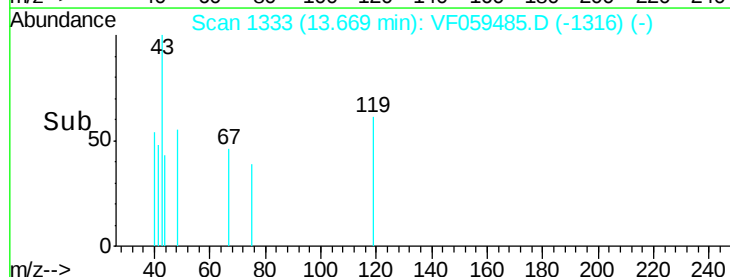
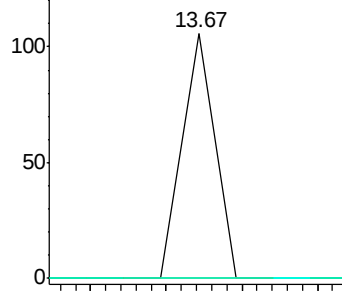
157 0.0 62.6 187.8#

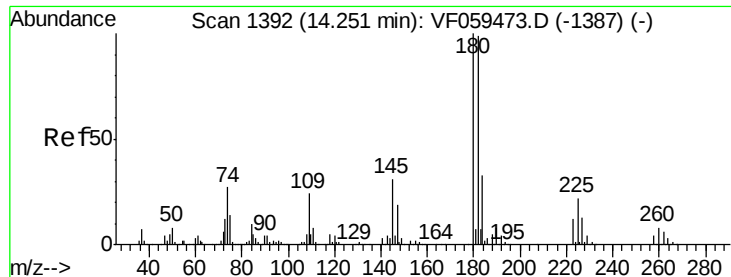


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

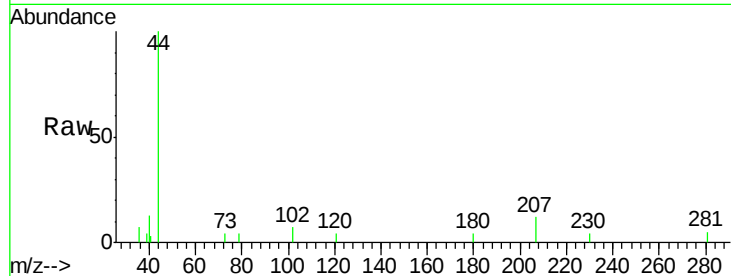




#93
 1,2,4-Trichlorobenzene
 Concen: 21.64 ug/l
 RT: 14.40 min Scan# 1407
 Delta R.T. 0.15 min
 Lab File: VF059485.D
 Acq: 10 Jul 2018 15:37

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-SOILRE

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	49.5	148.7#
145	0.0	15.4	46.2#



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

