

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
 Data File : VF060412.D
 Acq On : 2 Oct 2018 19:51
 Operator : VA/AP
 Sample : J5154-02RE
 Misc : 5.25/5mL/MSVOA F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OILY-STONESRE

Quant Time: Oct 03 02:36:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	211393	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	384998	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	254043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	62559	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.99	65	189223	57.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.40%	
35) Dibromofluoromethane	4.26	113	195069	53.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.86%	
50) Toluene-d8	7.68	98	329479	36.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.98%	
62) 4-Bromofluorobenzene	11.50	95	111267	27.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.72%	

Target Compounds

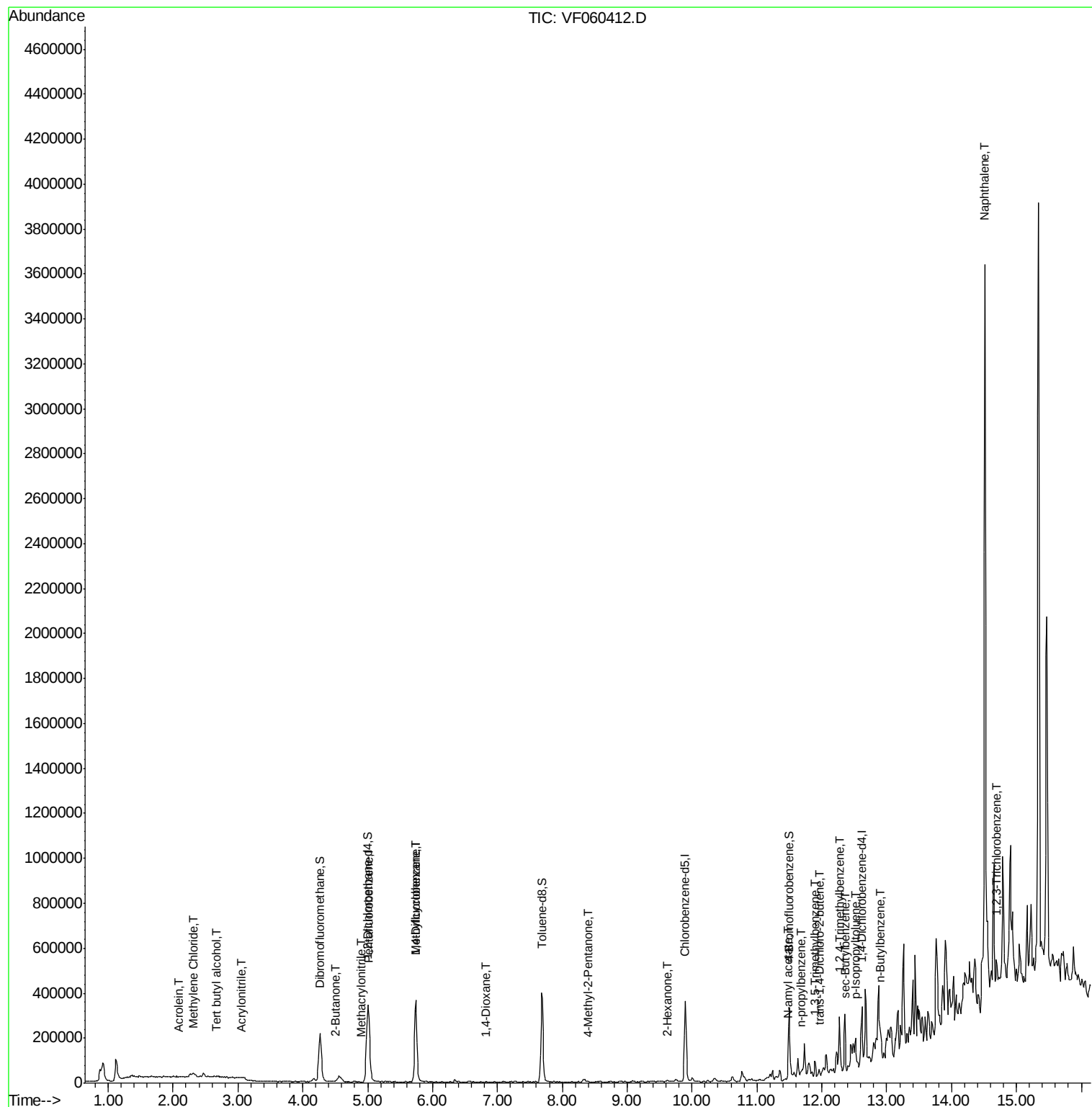
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	1091	Below Cal		86
11) Tert butyl alcohol	2.66	59	1253	6.262 ug/l #		1
13) Acrolein	2.08	56	1754	10.901 ug/l #		51
15) Acrylonitrile	3.06	53	1667	4.862 ug/l #		68
16) Acetone	2.26	43	444	Below Cal		97
18) Methyl Acetate	2.40	43	516	Below Cal #		57
20) Methylene Chloride	2.32	84	18782	2.488 ug/l #		70
25) 2-Butanone	4.50	43	2389	2.789 ug/l #		60
39) Methylcyclohexane	5.73	83	4996	1.074 ug/l #		35
41) Methacrylonitrile	4.91	41	1012	1.050 ug/l #		34
49) 1,4-Dioxane	6.82	88	316	23.242 ug/l #		25
51) 4-Methyl-2-Pentanone	8.38	43	2644	1.691 ug/l		92
59) 2-Hexanone	9.62	43	4273	3.726 ug/l		93
74) N-amyl acetate	11.47	43	2730	2.415 ug/l #		31
78) n-propylbenzene	11.67	91	6524	1.093 ug/l		95
80) 1,3,5-Trimethylbenzene	11.90	105	24515	5.858 ug/l		98
81) trans-1,4-Dichloro-2-buten	11.96	75	337	1.150 ug/l #		1
84) 1,2,4-Trimethylbenzene	12.28	105	76030	18.319 ug/l		94
85) sec-Butylbenzene	12.37	105	8880	1.559 ug/l #		68
86) p-Isopropyltoluene	12.50	119	10329	2.219 ug/l #		79
89) n-Butylbenzene	12.91	91	16394	3.328 ug/l		80
95) Naphthalene	14.51	128	2101610	792.156 ug/l #		96
96) 1,2,3-Trichlorobenzene	14.70	180	18879	13.573 ug/l #		29

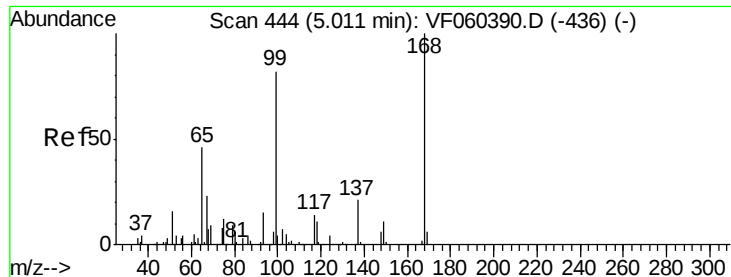
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100218\
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Quant Time: Oct 03 02:36:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 11:42:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

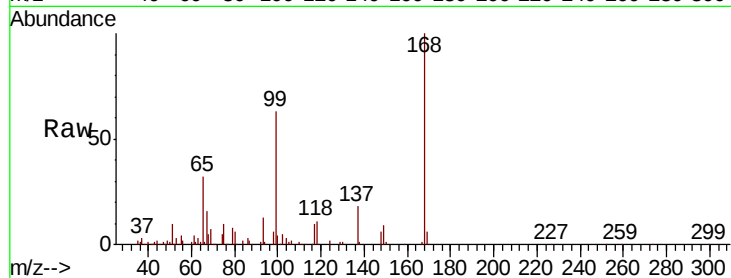
OILY-STONESRE

Tot Ion:168 Resp: 211393

Ion Ratio Lower Upper

168 100

99 62.7 65.3 97.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

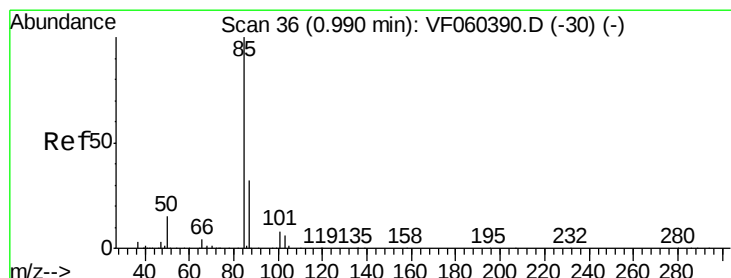
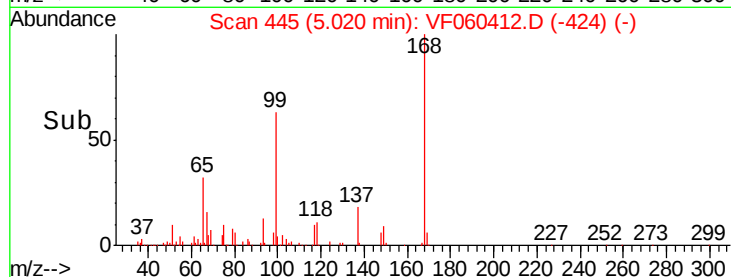
40000

20000

0

Time-->

4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060412.D

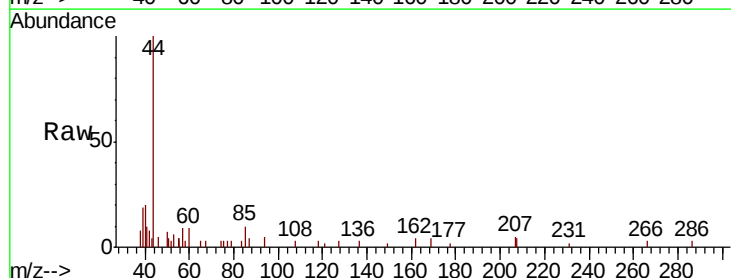
Acq: 2 Oct 2018 19:51

Tgt Ion: 85 Resp: 1091

Ion Ratio Lower Upper

85 100

87 39.7 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

500

400

300

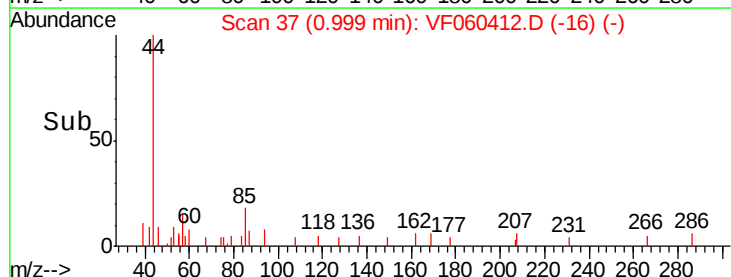
200

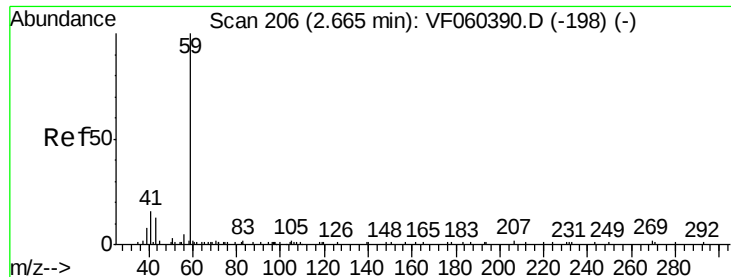
100

0

Time-->

0.95 1.00 1.05



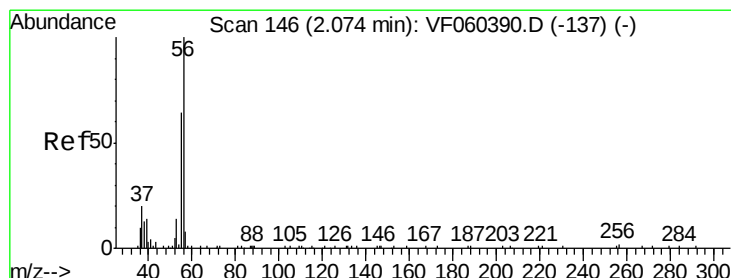
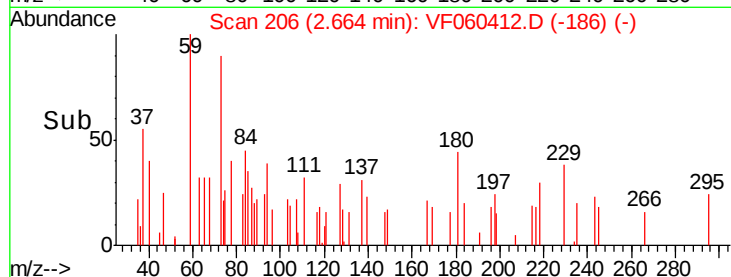
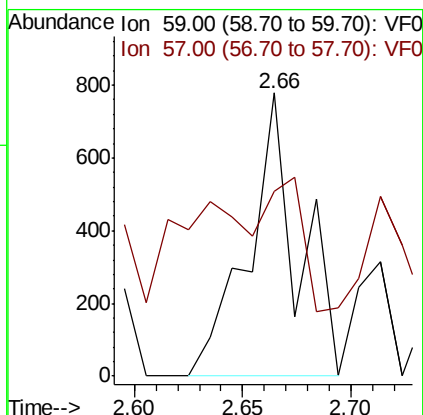
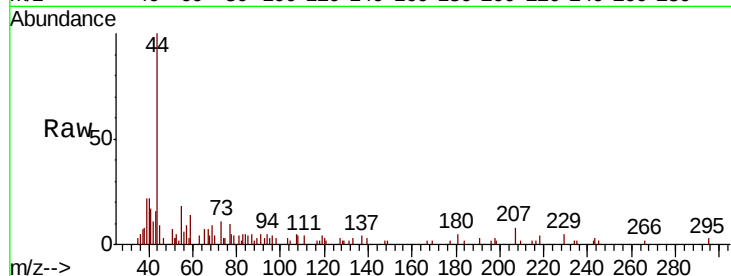


#11

Tert butyl alcohol
Concen: 6.262 ug/l
RT: 2.66 min Scan# 206
Delta R.T. -0.00 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Instrument :
MSVOA_F
ClientSampled :
OILY-STONESRE

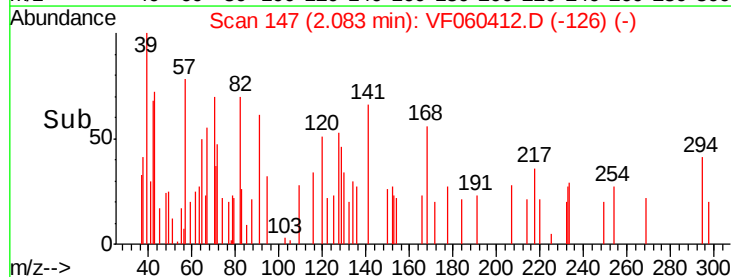
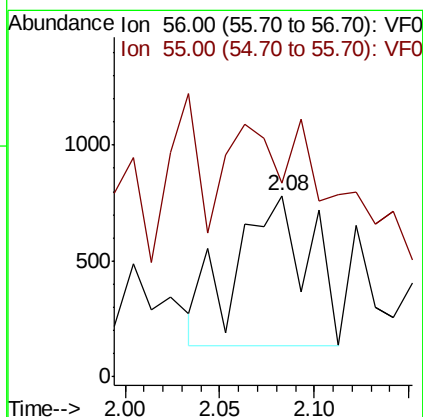
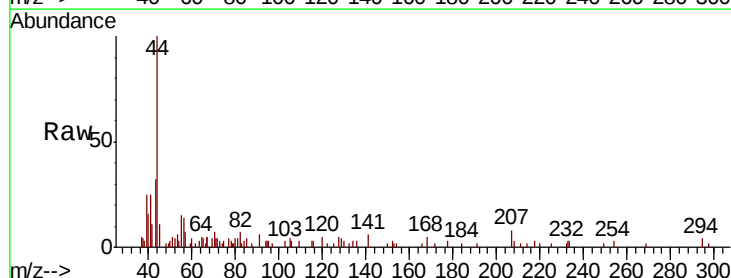
Tot Ion: 59 Resp: 1253
Ion Ratio Lower Upper
59 100
57 65.2 6.5 9.7#

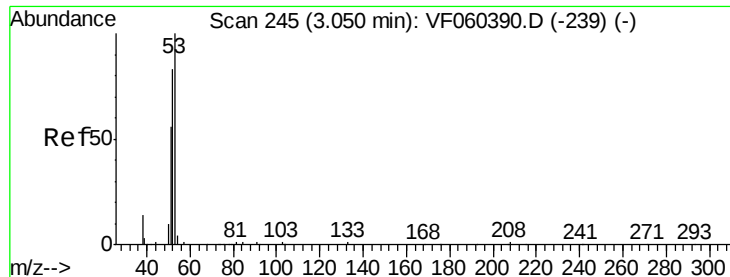


#13

Acrolein
Concen: 10.901 ug/l
RT: 2.08 min Scan# 147
Delta R.T. 0.01 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Tgt Ion: 56 Resp: 1754
Ion Ratio Lower Upper
56 100
55 106.8 53.9 80.9#





#15

Acrylonitrile

Concen: 4.862 ug/l

RT: 3.06 min Scan# 246

Delta R.T. 0.01 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

OILY-STONESRE

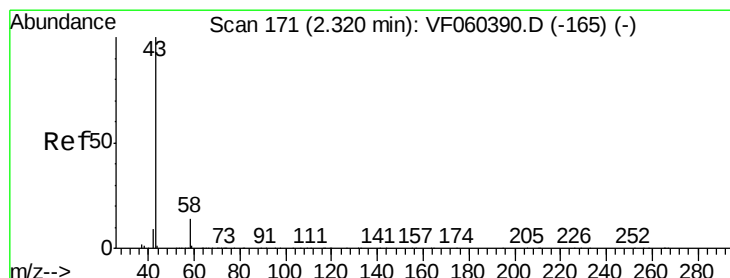
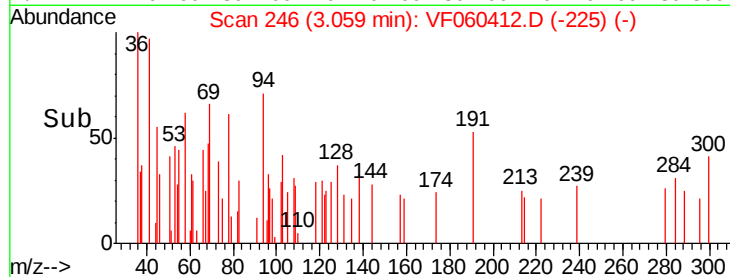
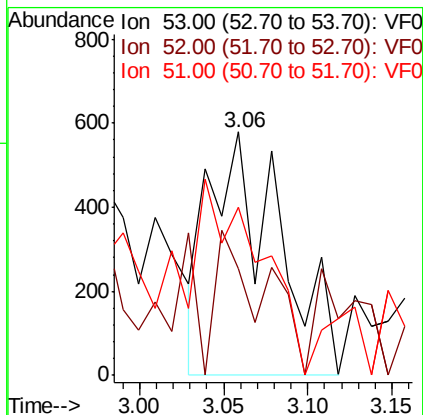
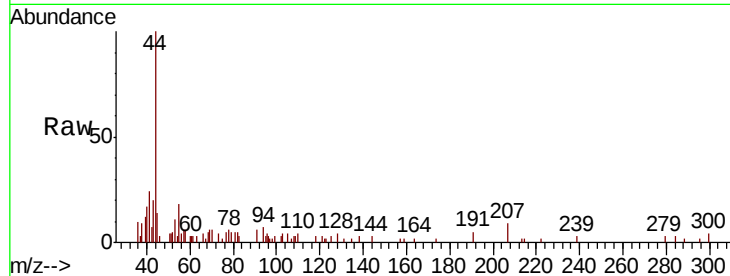
Tot Ion: 53 Resp: 1667

Ion Ratio Lower Upper

53 100

52 43.9 66.0 99.0#

51 69.3 45.6 68.4#



#16

Acetone

Concen: Below Cal

RT: 2.26 min Scan# 165

Delta R.T. -0.06 min

Lab File: VF060412.D

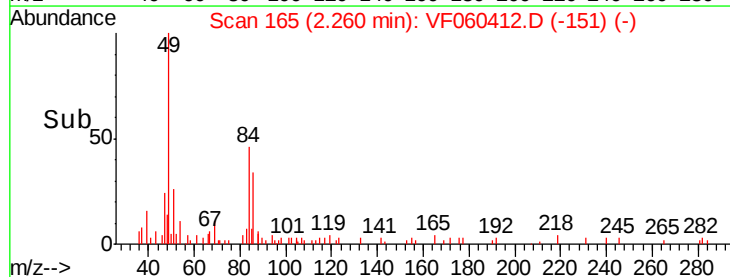
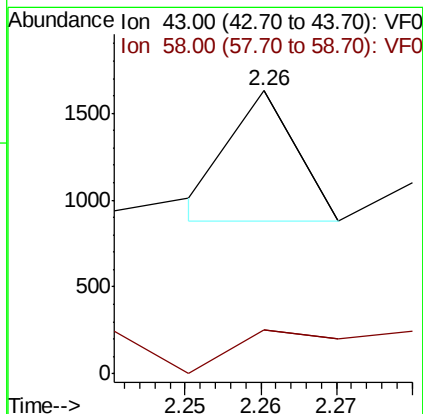
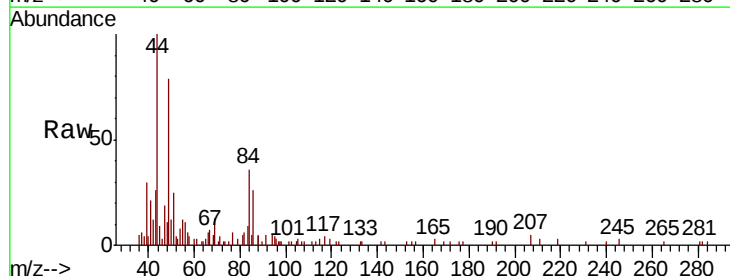
Acq: 2 Oct 2018 19:51

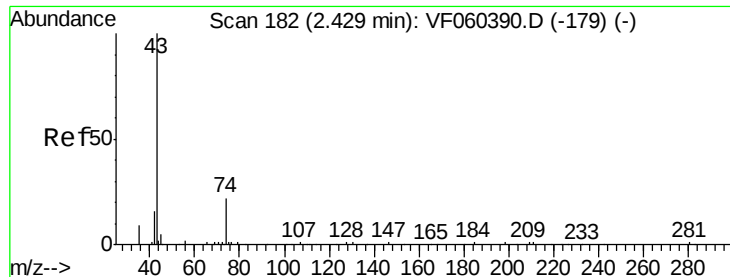
Tgt Ion: 43 Resp: 444

Ion Ratio Lower Upper

43 100

58 15.4 11.2 16.8

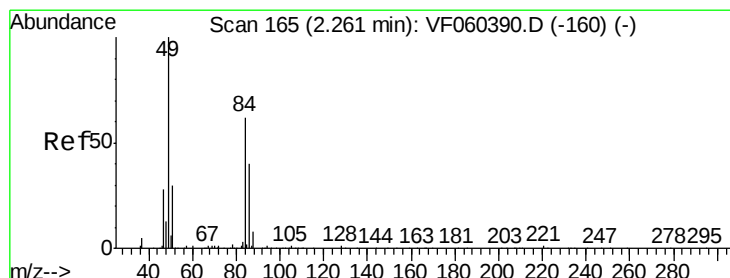
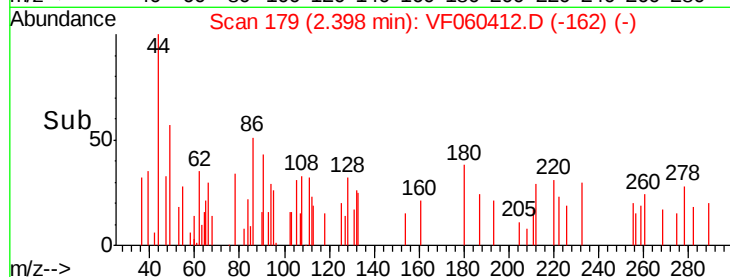
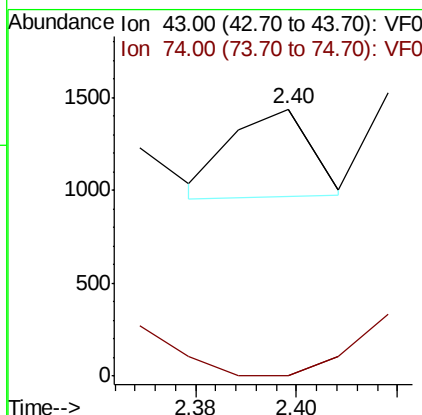
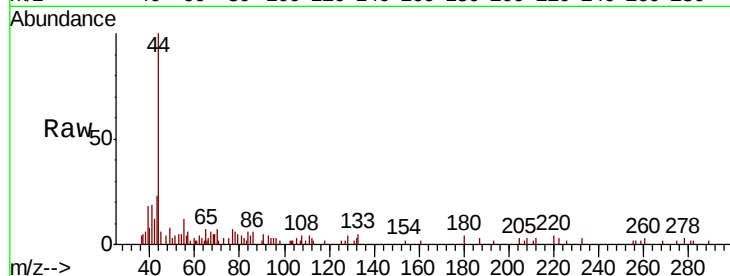




#18
Methvl Acetate
Concen: Below Cal
RT: 2.40 min Scan# 179
Delta R.T. -0.03 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

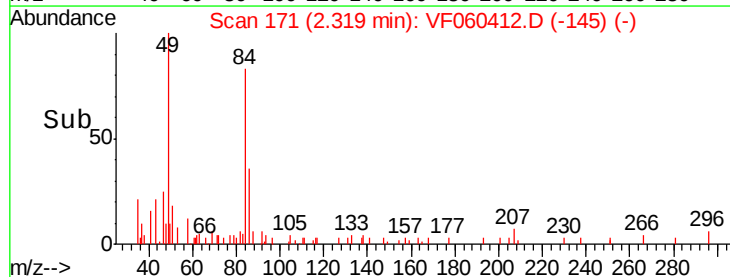
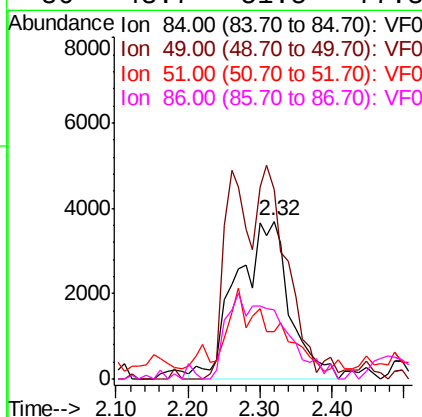
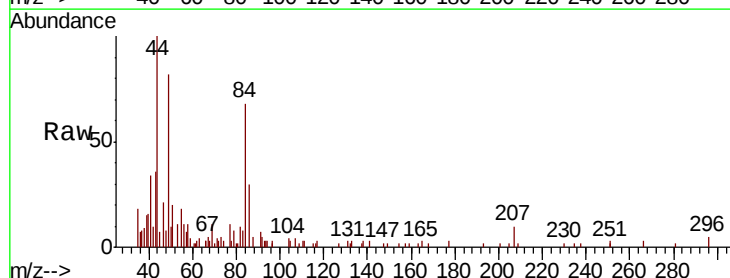
Instrument :
MSVOA_F
ClientSampleId :
OILY-STONESRE

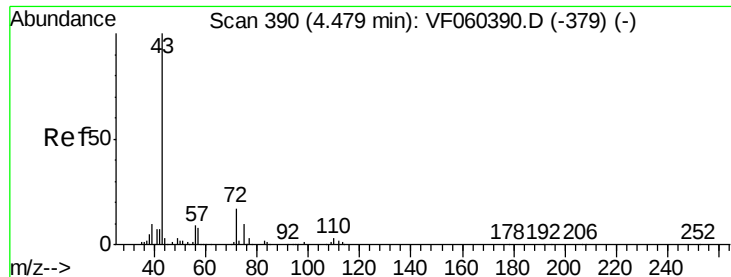
Tot Ion: 43 Resp: 516
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#



#20
Methylene Chloride
Concen: 2.488 ug/l
RT: 2.32 min Scan# 171
Delta R.T. 0.06 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Tgt Ion: 84 Resp: 18782
Ion Ratio Lower Upper
84 100
49 120.2 130.2 195.2#
51 29.8 41.0 61.6#
86 43.7 51.5 77.3#





#25

2-Butanone

Concen: 2.789 ug/l

RT: 4.50 min Scan# 392

Delta R.T. 0.02 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

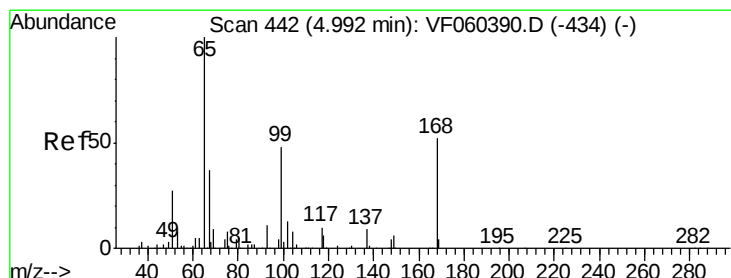
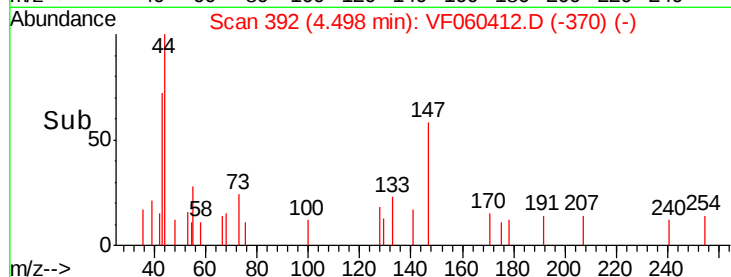
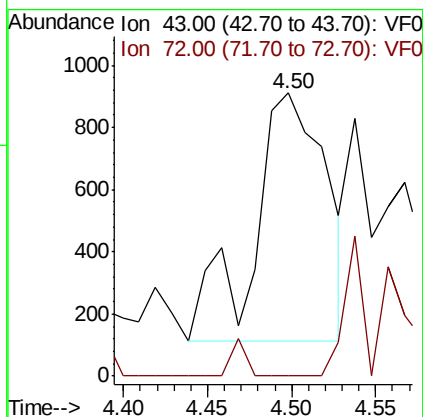
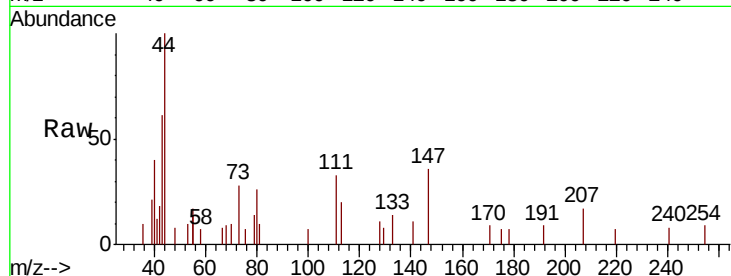
Instrument :
MSVOA_F
ClientSampleId :
OILY-STONESRE

Tot Ion: 43 Resp: 2389

Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



#33

1,2-Dichloroethane-d4

Concen: 57.205 ug/l

RT: 4.99 min Scan# 442

Delta R.T. -0.00 min

Lab File: VF060412.D

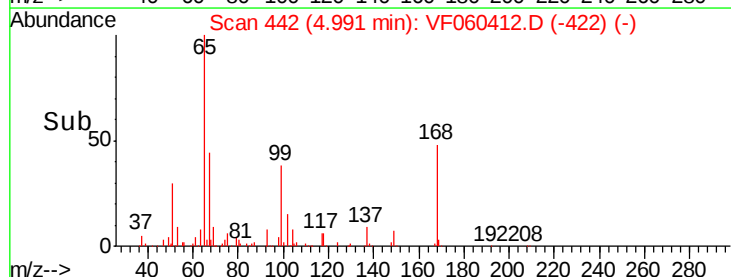
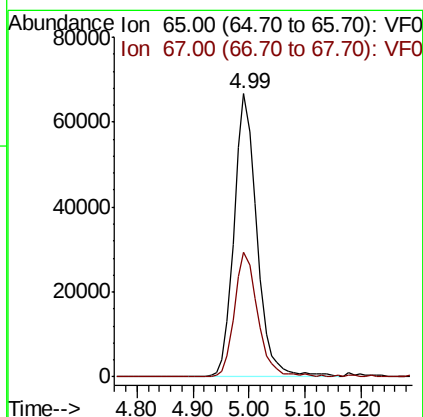
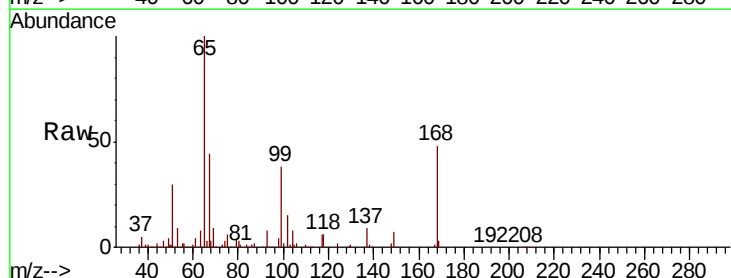
Acq: 2 Oct 2018 19:51

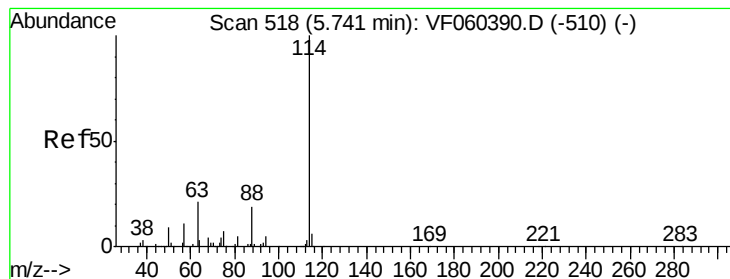
Tgt Ion: 65 Resp: 189223

Ion Ratio Lower Upper

65 100

67 44.0 0.0 89.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 518

Delta R.T. -0.00 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

OILY-STONESRE

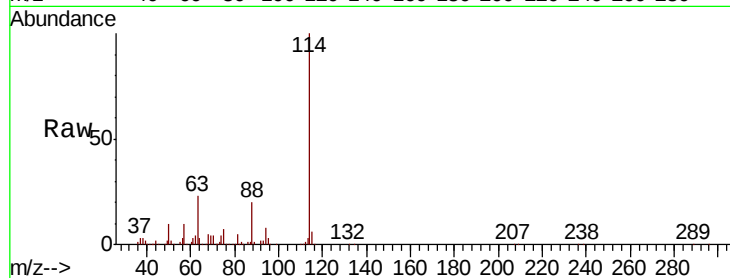
Tot Ion:114 Resp: 384998

Ion Ratio Lower Upper

114 100

63 23.0 0.0 42.2

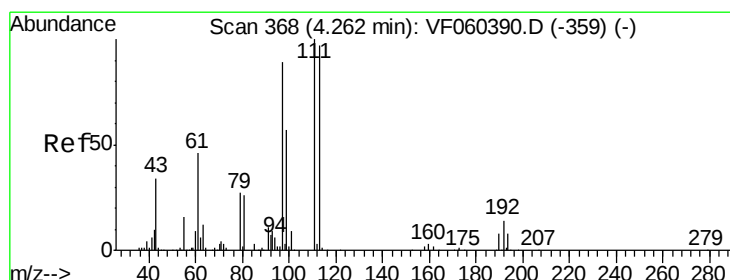
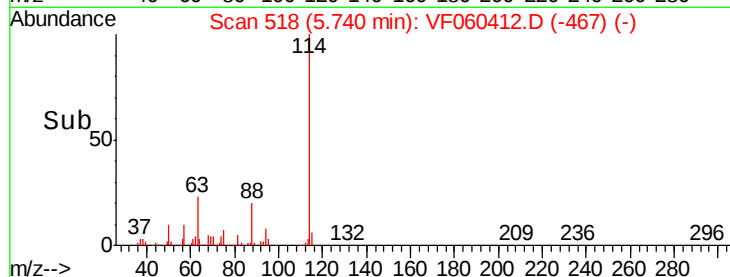
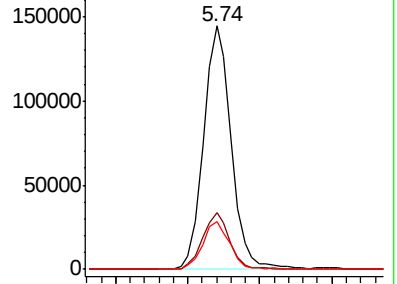
88 19.5 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 53.934 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.00 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

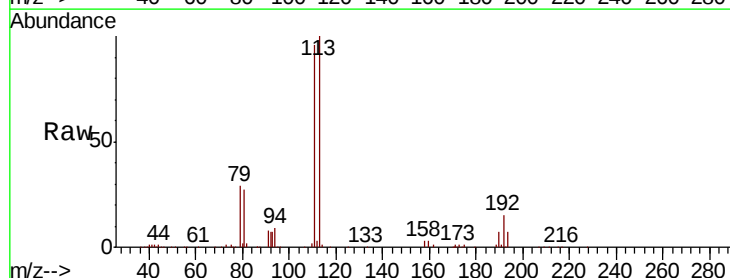
Tgt Ion:113 Resp: 195069

Ion Ratio Lower Upper

113 100

111 96.4 82.3 123.5

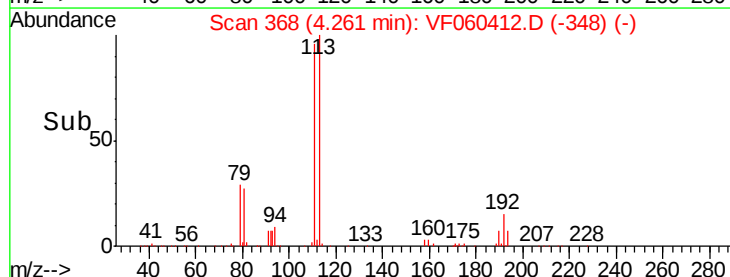
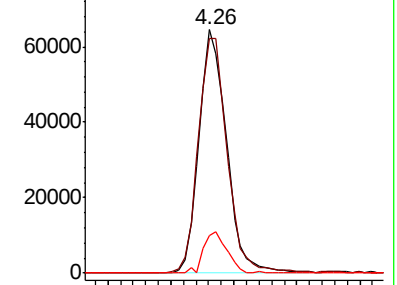
192 15.2 11.8 17.6

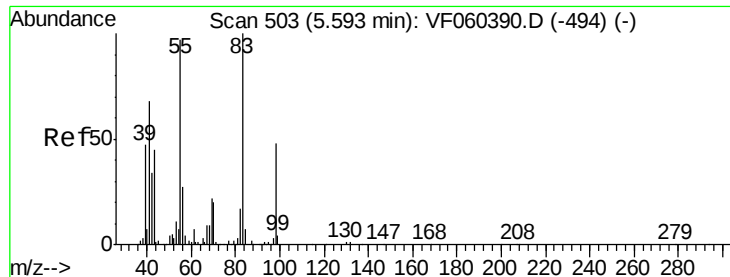


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

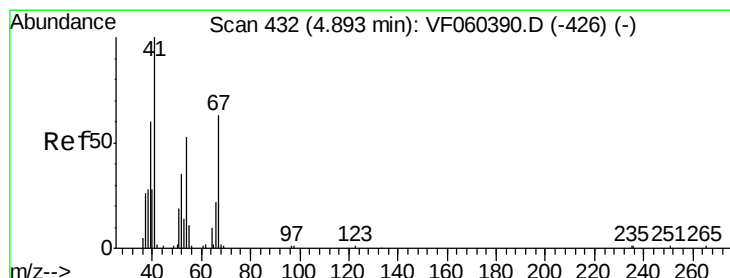
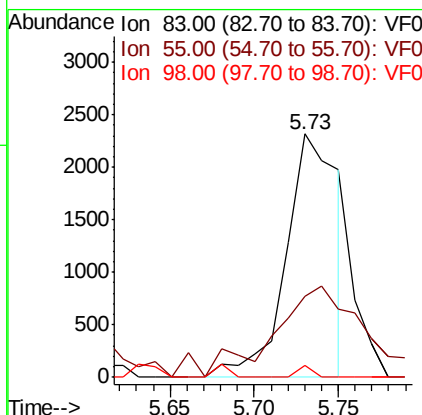
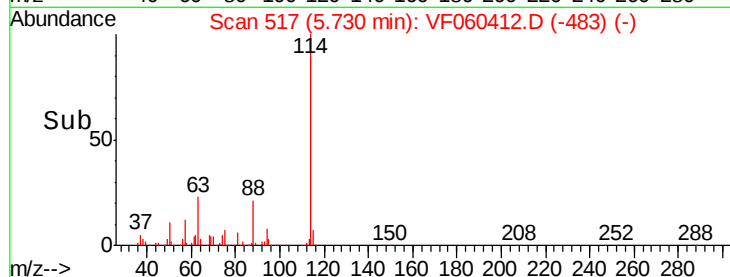
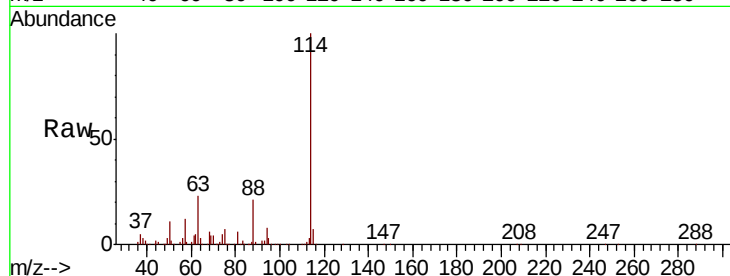




#39
Methylcyclohexane
Concen: 1.074 ug/l
RT: 5.73 min Scan# 517
Delta R.T. 0.14 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

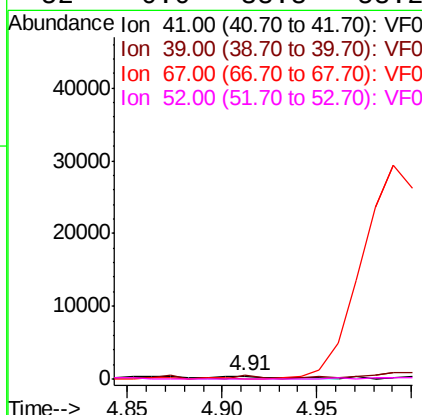
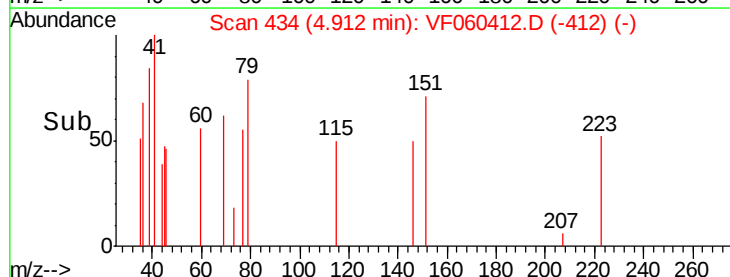
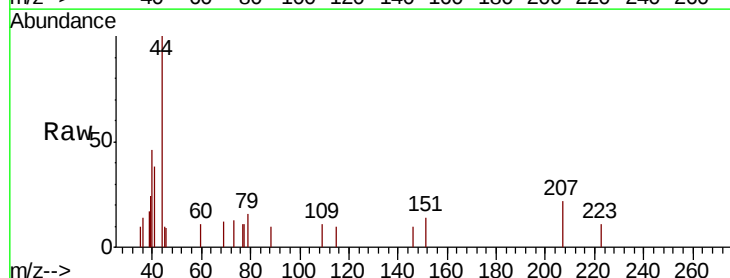
Instrument :
MSVOA_F
ClientSampleId :
OILY-STONESRE

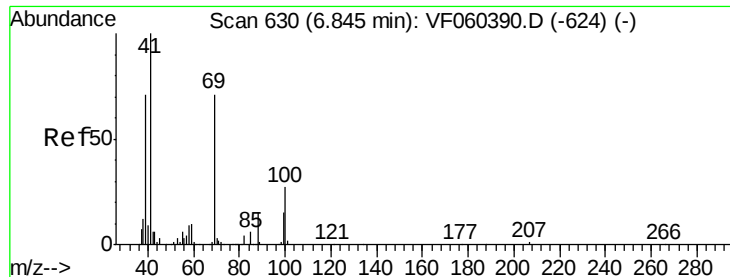
Tot Ion: 83 Resp: 4996
Ion Ratio Lower Upper
83 100
55 33.3 77.5 116.3#
98 4.8 38.7 58.1#



#41
Methacrylonitrile
Concen: 1.050 ug/l
RT: 4.91 min Scan# 434
Delta R.T. 0.02 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Tgt Ion: 41 Resp: 1012
Ion Ratio Lower Upper
41 100
39 107.5 55.0 82.4#
67 0.0 49.6 74.4#
52 0.0 38.8 58.2#





#49

1,4-Dioxane

Concen: 23.242 ug/l

RT: 6.82 min Scan# 628

Delta R.T. -0.02 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

OILY-STONESRE

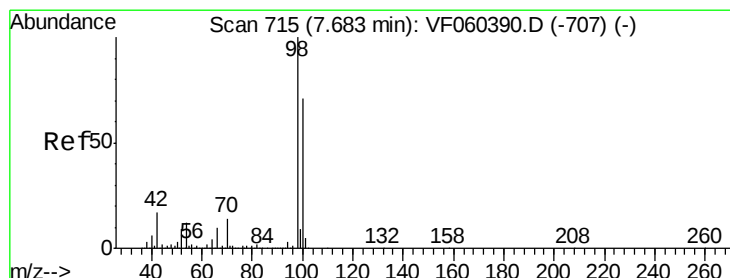
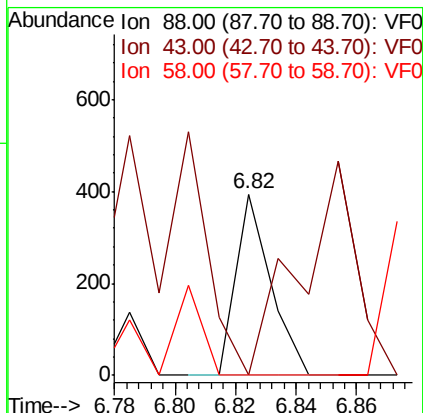
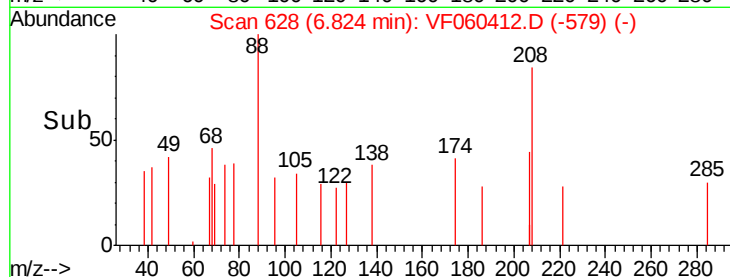
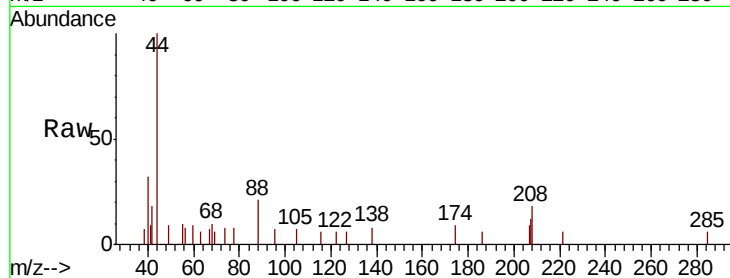
Tot Ion: 88 Resp: 316

Ion Ratio Lower Upper

88 100

43 0.0 38.3 57.5#

58 0.0 47.4 71.2#



#50

Toluene-d8

Concen: 36.989 ug/l

RT: 7.68 min Scan# 715

Delta R.T. -0.00 min

Lab File: VF060412.D

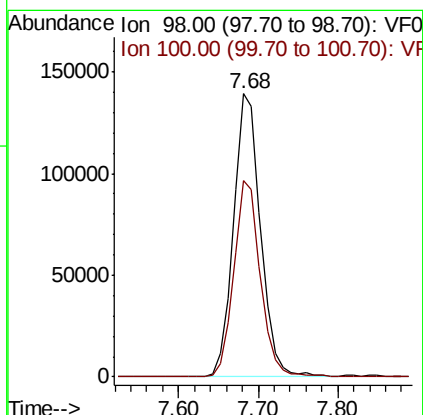
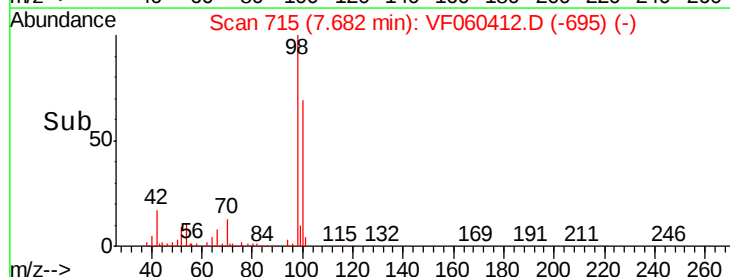
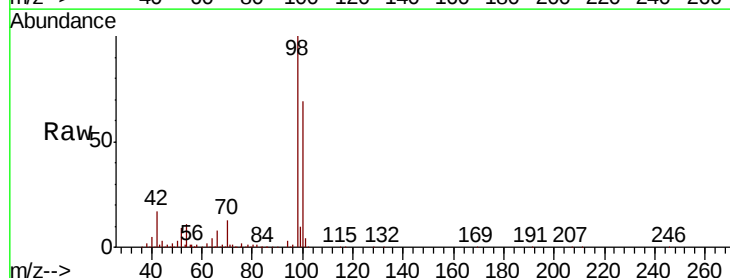
Acq: 2 Oct 2018 19:51

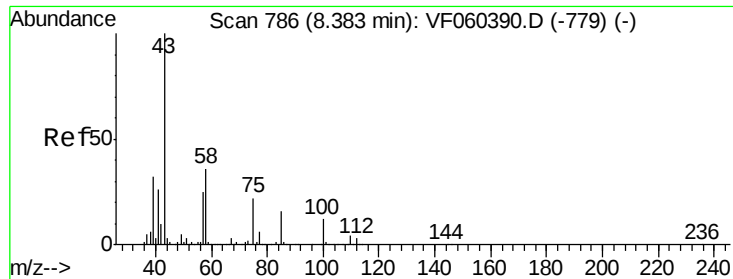
Tgt Ion: 98 Resp: 329479

Ion Ratio Lower Upper

98 100

100 69.2 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 1.691 ug/l

RT: 8.38 min Scan# 786

Delta R.T. -0.00 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

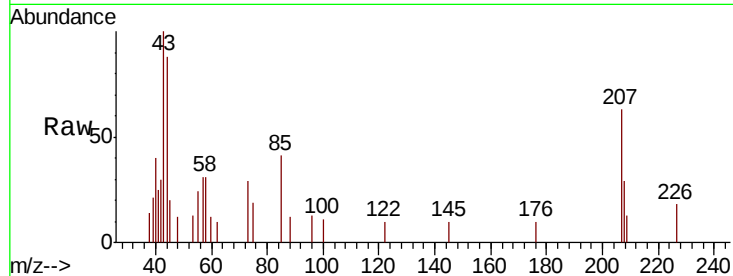
OILY-STONESRE

Tot Ion: 43 Resp: 2644

Ion Ratio Lower Upper

43 100

58 31.0 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.38

1000

800

600

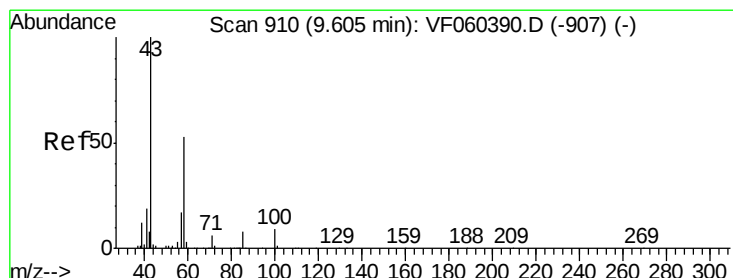
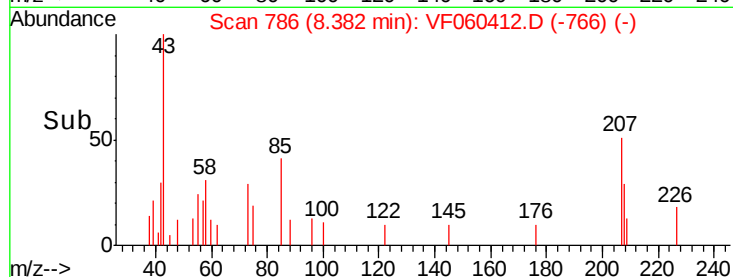
400

200

0

8.35 8.40 8.45

Time-->



#59

2-Hexanone

Concen: 3.726 ug/l

RT: 9.62 min Scan# 912

Delta R.T. 0.02 min

Lab File: VF060412.D

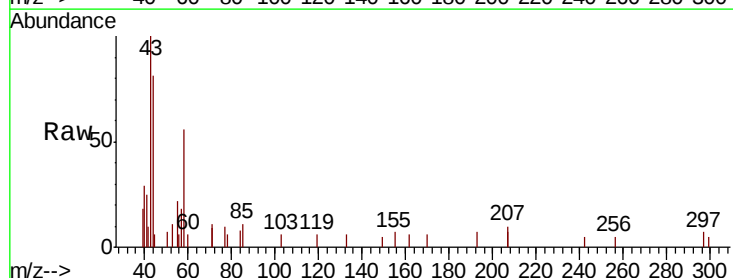
Acq: 2 Oct 2018 19:51

Tgt Ion: 43 Resp: 4273

Ion Ratio Lower Upper

43 100

58 55.8 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.62

2000

1500

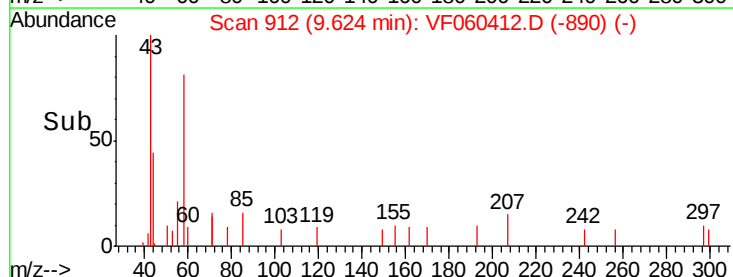
1000

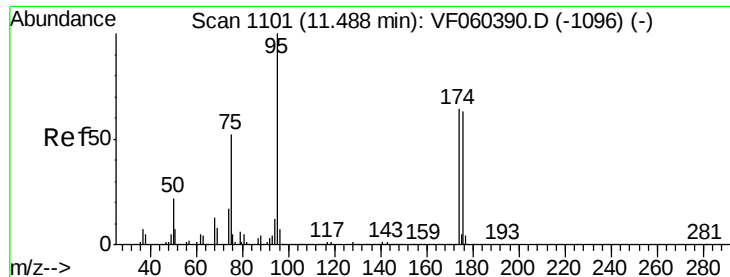
500

0

9.55 9.60 9.65

Time-->





#62

4-Bromofluorobenzene

Concen: 27.358 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

OILY-STONESRE

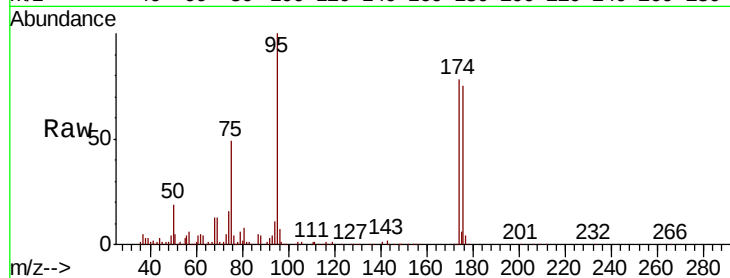
Tot Ion: 95 Resp: 111267

Ion Ratio Lower Upper

95 100

174 78.1 0.0 129.0

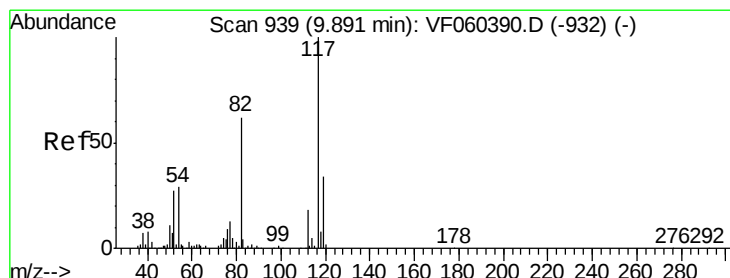
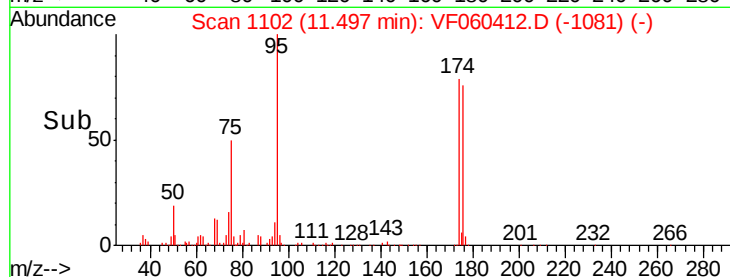
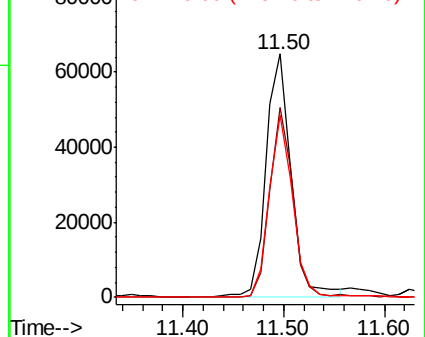
176 75.0 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

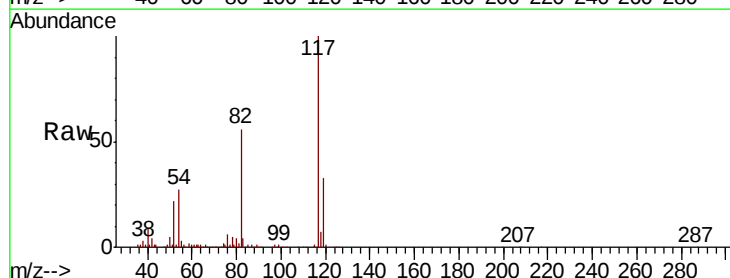
Tgt Ion: 117 Resp: 254043

Ion Ratio Lower Upper

117 100

82 56.4 49.5 74.3

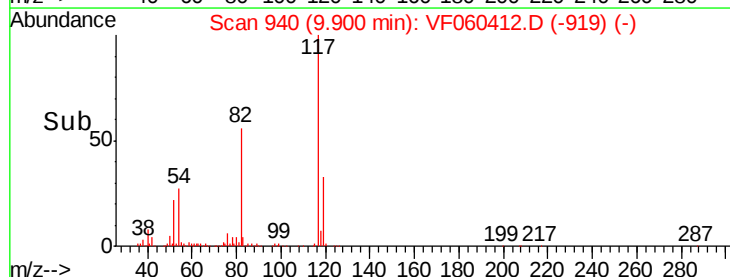
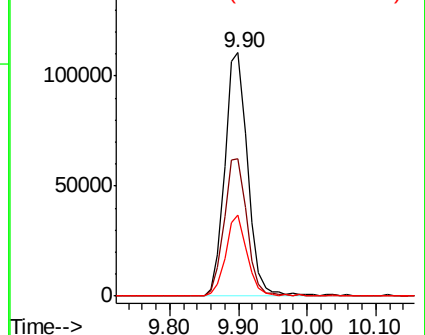
119 33.3 27.0 40.6

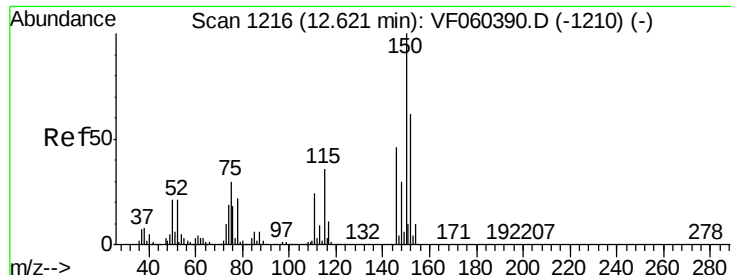


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



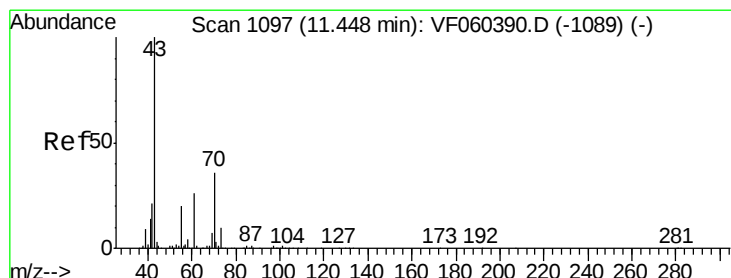
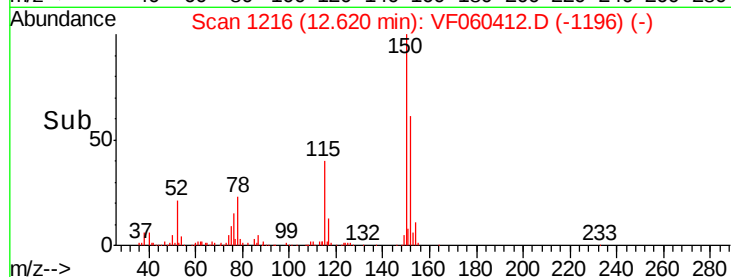
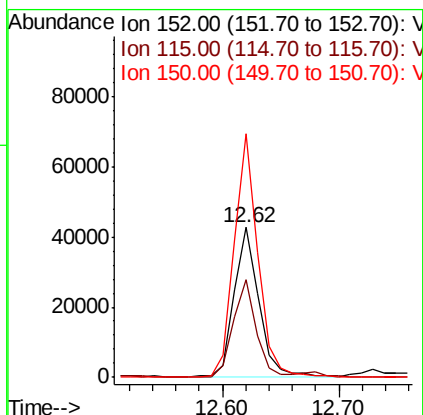
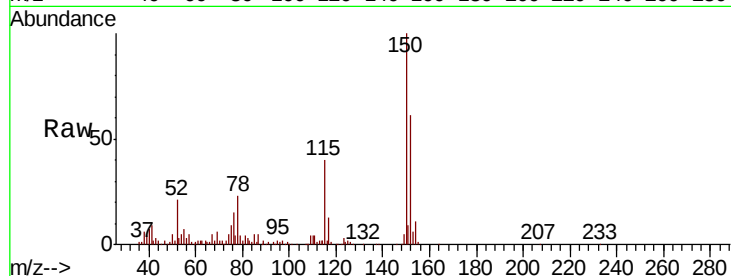


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Instrument :
MSVOA_F
ClientSampleId :
OILY-STONESRE

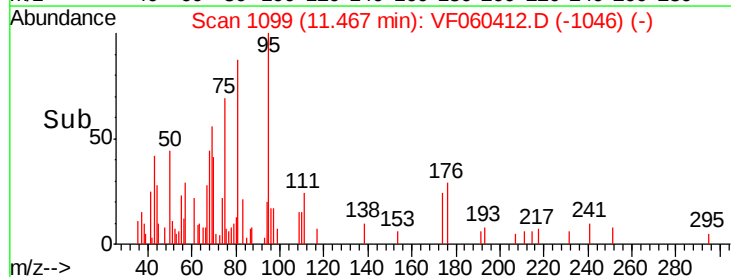
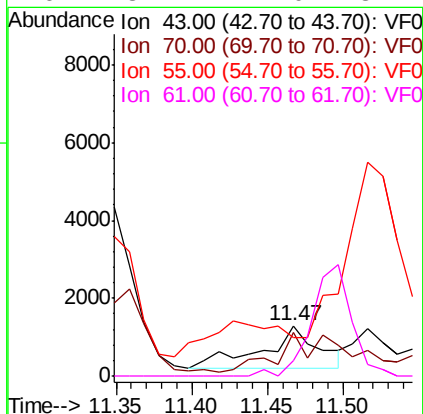
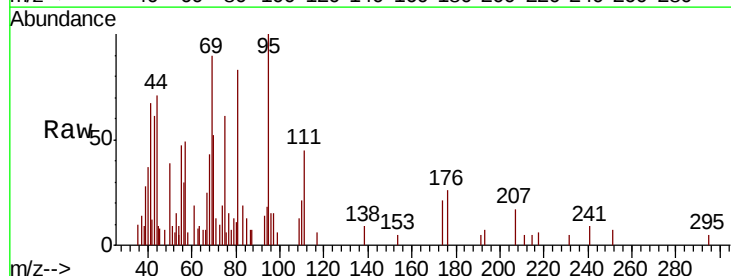
Tot Ion	Ratio	Lower	Upper
152	100		
115	65.4	28.6	85.8
150	162.7	0.0	324.6

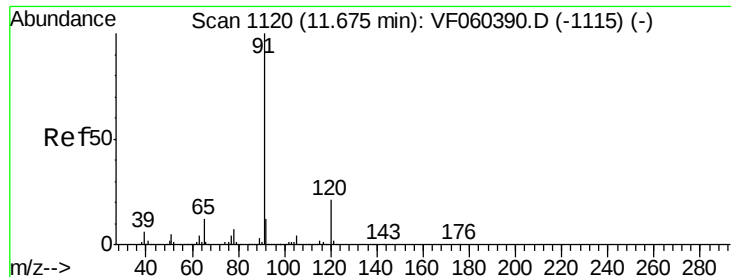


#74

N-ethyl acetate
Concen: 2.415 ug/l
RT: 11.47 min Scan# 1099
Delta R.T. 0.02 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Tgt Ion	Ratio	Lower	Upper
43	100		
70	85.7	29.1	43.7#
55	76.3	16.3	24.5#
61	31.4	21.0	31.4





#78

n-propylbenzene

Concen: 1.093 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

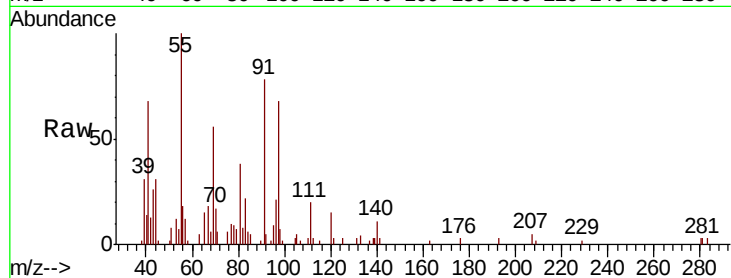
OILY-STONESRE

Tot Ion: 91 Resp: 6524

Ion Ratio Lower Upper

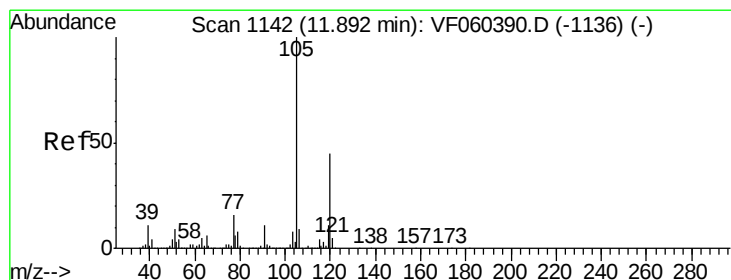
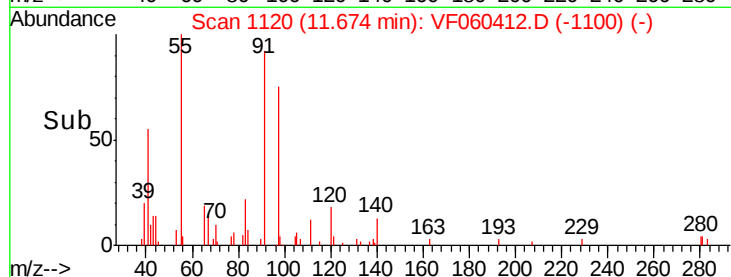
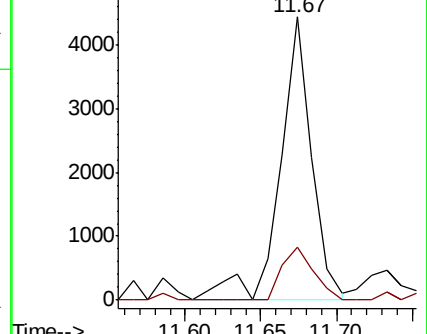
91 100

120 18.8 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 5.858 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF060412.D

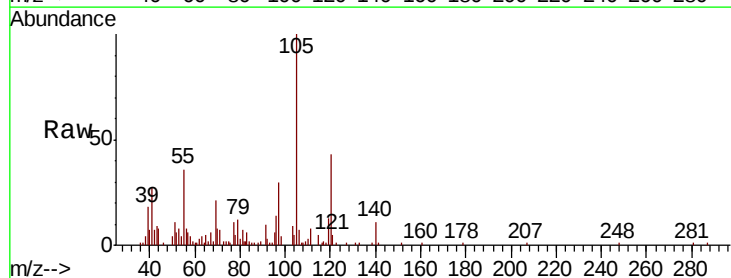
Acq: 2 Oct 2018 19:51

Tgt Ion:105 Resp: 24515

Ion Ratio Lower Upper

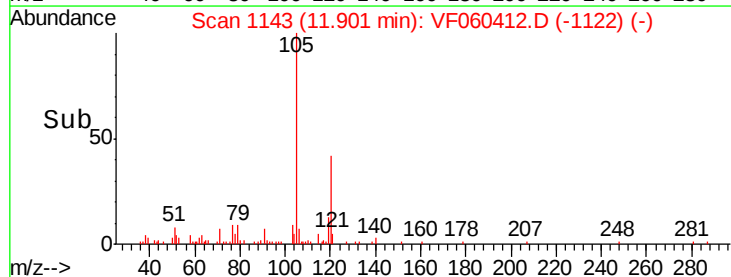
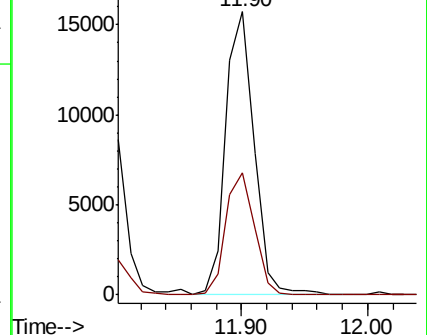
105 100

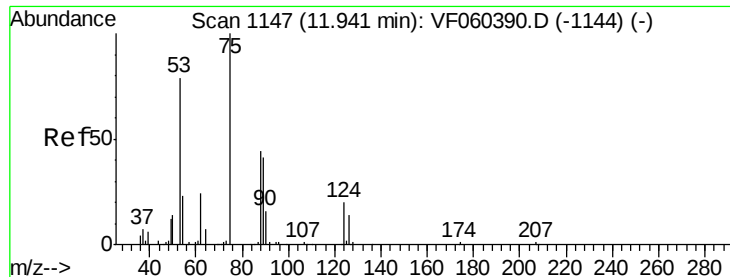
120 43.0 22.3 66.9



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: 1.150 ug/l

RT: 11.96 min Scan# 1149

Delta R.T. 0.02 min

Lab File: VF060412.D

Acq: 2 Oct 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

OILY-STONESRE

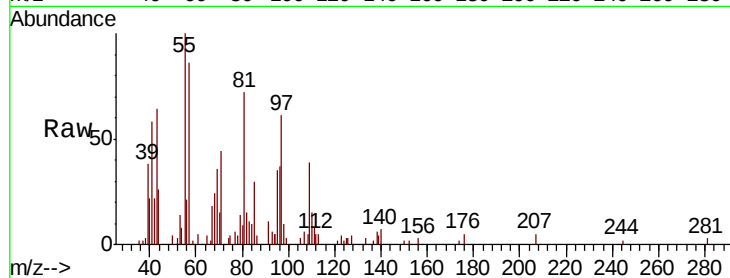
Tot Ion: 75 Resp: 337

Ion Ratio Lower Upper

75 100

53 345.9 67.8 101.8#

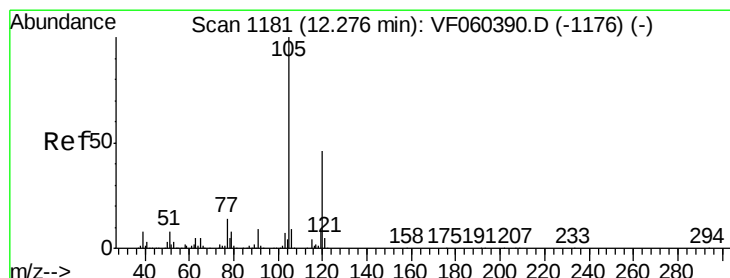
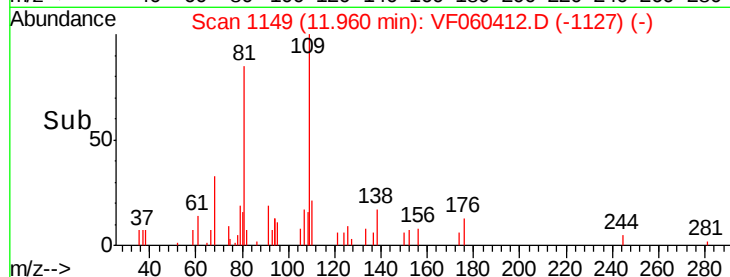
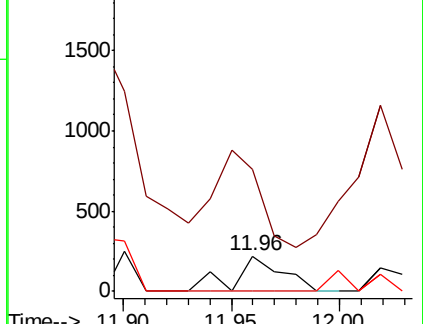
89 0.0 36.7 55.1#



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



#84

1,2,4-Trimethylbenzene

Concen: 18.319 ug/l

RT: 12.28 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VF060412.D

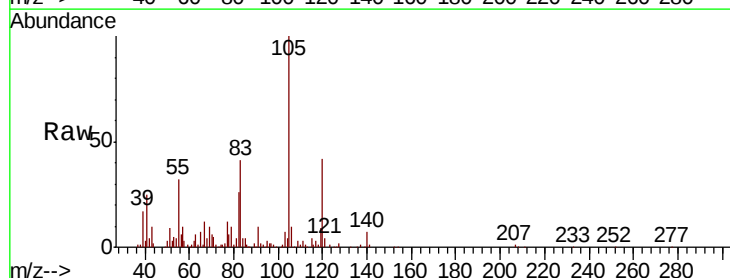
Acq: 2 Oct 2018 19:51

Tgt Ion: 105 Resp: 76030

Ion Ratio Lower Upper

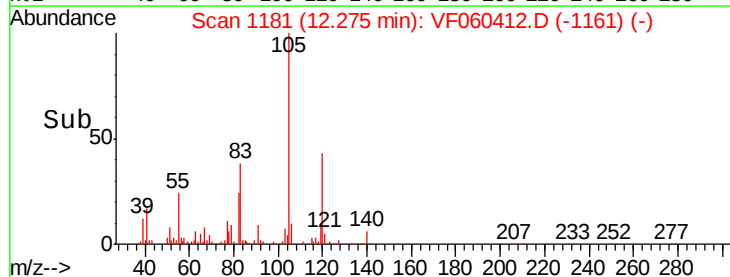
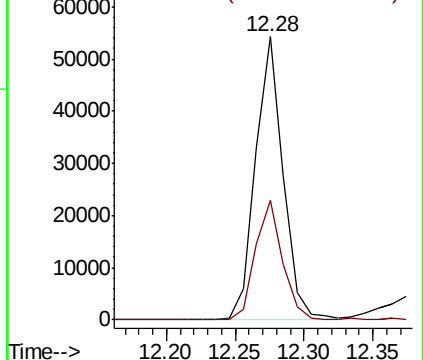
105 100

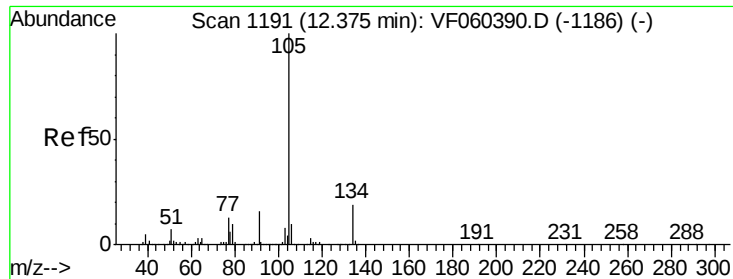
120 42.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

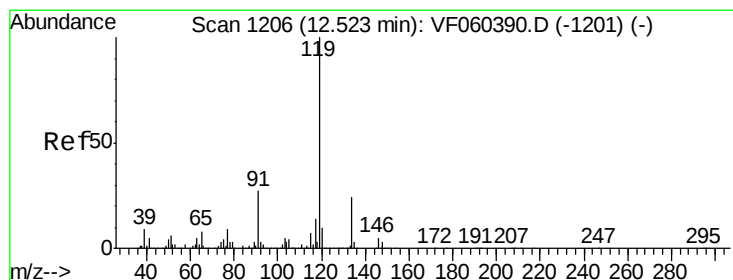
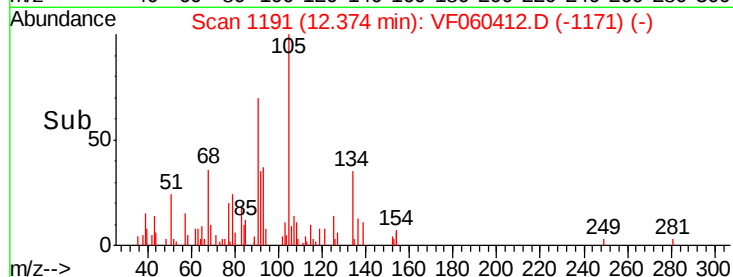
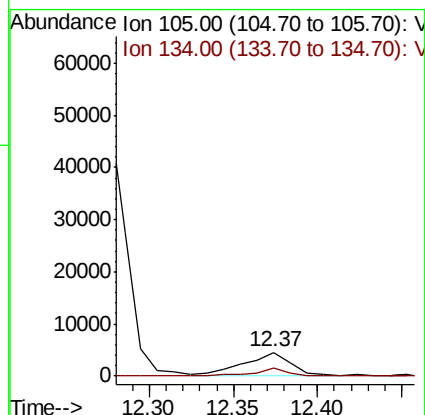
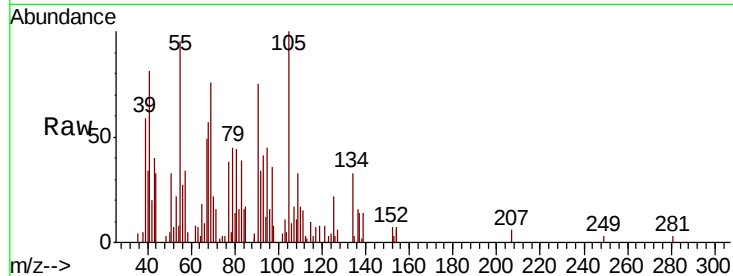




#85
 sec-Butylbenzene
 Concen: 1.559 ug/l
 RT: 12.37 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VF060412.D
 Acq: 2 Oct 2018 19:51

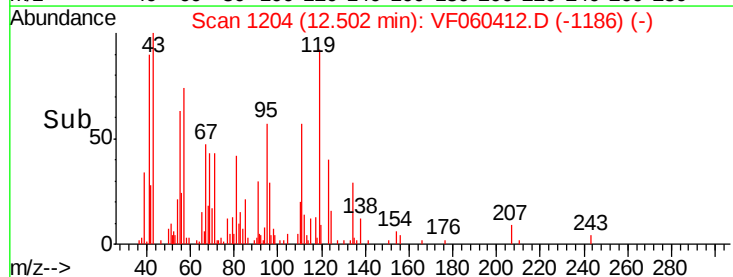
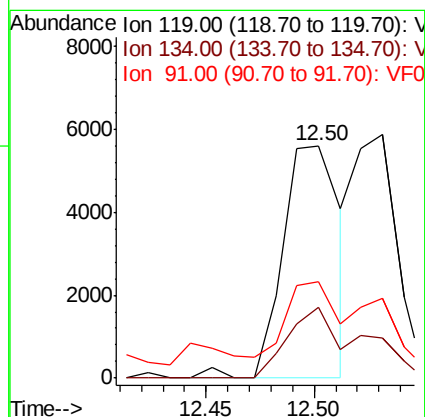
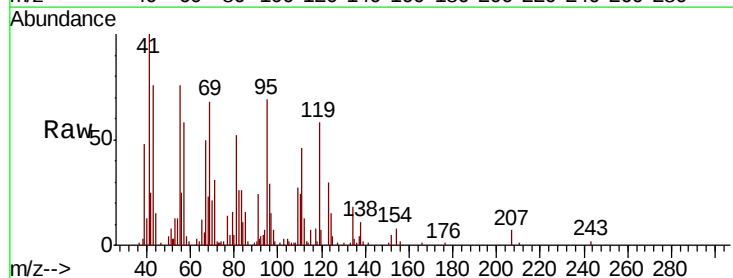
Instrument :
 MSVOA_F
 ClientSampleId :
 OILY-STONESRE

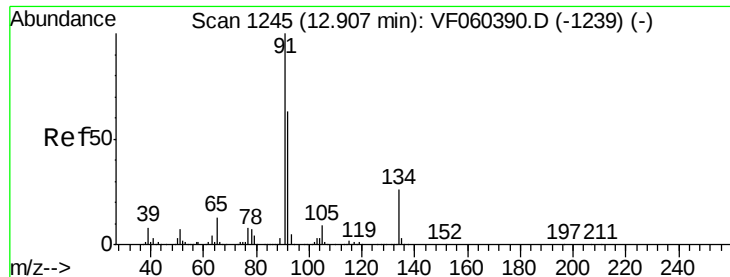
Tot Ion:105 Resp: 8880
 Ion Ratio Lower Upper
 105 100
 134 33.1 9.4 28.3#



#86
 p-Isopropyltoluene
 Concen: 2.219 ug/l
 RT: 12.50 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: VF060412.D
 Acq: 2 Oct 2018 19:51

Tgt Ion:119 Resp: 10329
 Ion Ratio Lower Upper
 119 100
 134 30.7 12.3 36.8
 91 41.3 13.5 40.4#

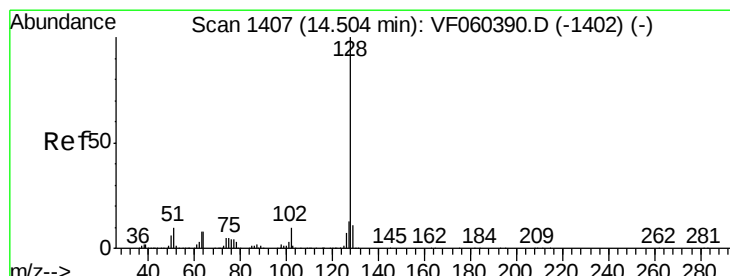
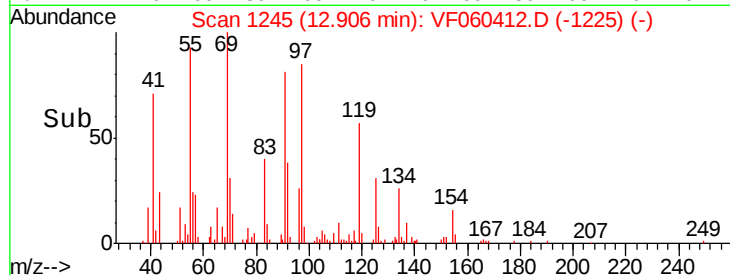
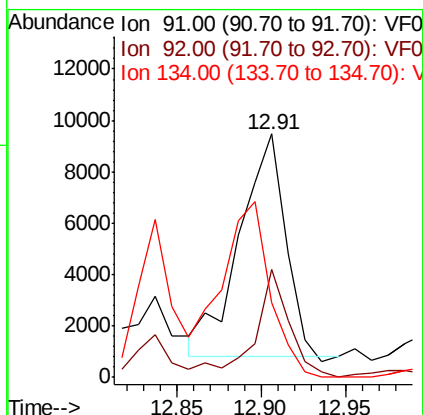
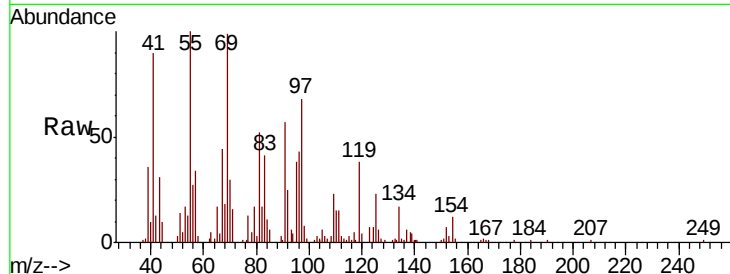




#89
n-Butylbenzene
Concen: 3.328 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

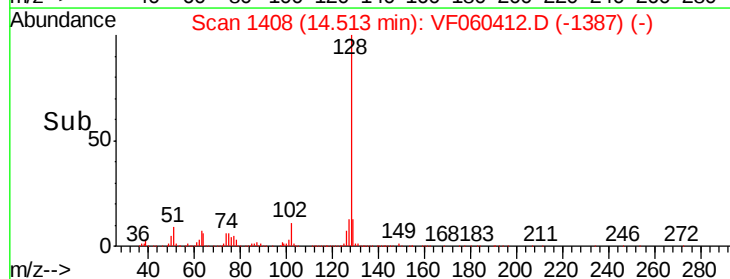
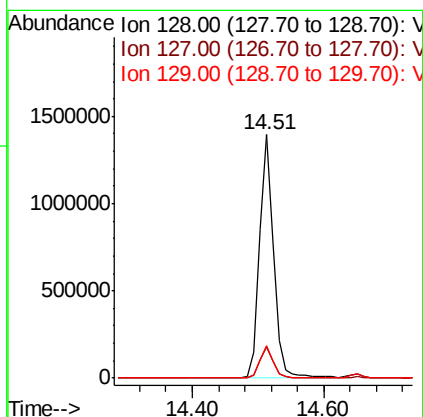
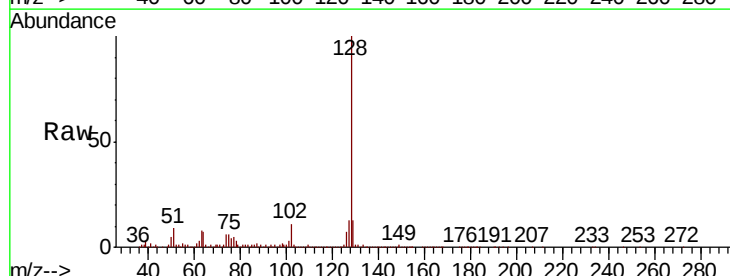
Instrument :
MSVOA_F
ClientSampleId :
OILY-STONESRE

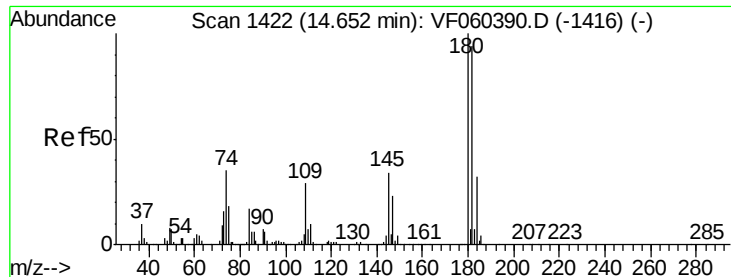
Tot Ion: 91 Resp: 16394
Ion Ratio Lower Upper
91 100
92 44.2 31.3 93.9
134 30.7 13.0 38.9



#95
Naphthalene
Concen: 792.156 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. 0.01 min
Lab File: VF060412.D
Acq: 2 Oct 2018 19:51

Tgt Ion: 128 Resp: 2101610
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 13.4 8.7 13.1#

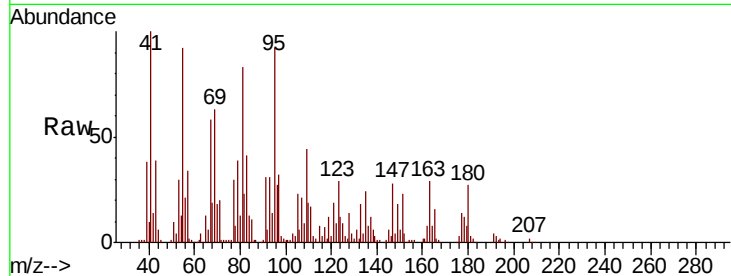




#96
 1,2,3-Trichlorobenzene
 Concen: 13.573 ug/l
 RT: 14.70 min Scan# 1427
 Delta R.T. 0.05 min
 Lab File: VF060412.D
 Acq: 2 Oct 2018 19:51

Instrument :
 MSVOA_F
 ClientSampleId :
 OILY-STONESRE

Tot Ion	Ratio	Lower	Upper
180	100		
182	6.4	46.8	140.3#
145	23.3	16.9	50.6



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

