

Data File : VF060169.D
Acq On : 29 Aug 2018 1:26
Operator : VA/AP
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Quant Time: Aug 29 02:11:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082918S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 29 02:08:40 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	76803	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	86943	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	69846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	34941	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	24118	25.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	50.04%	
35) Dibromofluoromethane	4.27	113	28733	43.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.34%	
50) Toluene-d8	7.70	98	96070	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.50	95	33644	34.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.96	85	80786	71.992	ug/l 100
3) Chloromethane	1.07	50	27763	38.164	ug/l 100
4) Vinyl Chloride	1.12	62	28724	46.005	ug/l 100
5) Bromomethane	1.32	94	13742	30.805	ug/l 100
6) Chloroethane	1.41	64	17840	66.763	ug/l 100
7) Trichlorofluoromethane	1.49	101	134598	90.229	ug/l 100
8) Diethyl Ether	1.68	74	5030	24.672	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	1.86	101	59950	79.798	ug/l 100
10) Methyl Iodide	1.93	142	27164	33.409	ug/l 100
11) Tert butyl alcohol	2.61	59	1812	37.896	ug/l 100
12) 1,1-Dichloroethene	1.82	96	37104	70.089	ug/l 100
13) Acrolein	2.08	56	2533	104.769	ug/l 100
14) Allyl chloride	2.18	41	30316	36.603	ug/l 100
15) Acrylonitrile	3.04	53	5760	59.448	ug/l 100
16) Acetone	2.30	43	14083	58.846	ug/l 100
17) Carbon Disulfide	1.84	76	112075	67.060	ug/l 100
18) Methyl Acetate	2.42	43	4219	8.971	ug/l 100
19) Methyl tert-butyl Ether	2.50	73	25185	18.180	ug/l 100
20) Methylene Chloride	2.27	84	18339	30.054	ug/l 100
21) trans-1,2-Dichloroethene	2.40	96	31789	55.902	ug/l 100
22) Diisopropyl ether	2.89	45	48316	27.174	ug/l 100
23) Vinyl Acetate	3.30	43	64070	72.308	ug/l 100
24) 1,1-Dichloroethane	2.99	63	51742	44.052	ug/l 100
25) 2-Butanone	4.46	43	14211	46.001	ug/l 100
26) 2,2-Dichloropropane	3.73	77	38686	33.189	ug/l 100
27) cis-1,2-Dichloroethene	3.62	96	22690	31.538	ug/l 100
28) Bromochloromethane	3.87	49	10449	22.704	ug/l 100
29) Tetrahydrofuran	4.21	42	7235	61.374	ug/l 100
30) Chloroform	4.01	83	57427	35.988	ug/l 100
31) Cyclohexane	3.85	56	53833	56.777	ug/l 100
32) 1,1,1-Trichloroethane	4.26	97	85891	57.813	ug/l 100
36) 1,1-Dichloropropene	4.44	75	58212	66.300	ug/l 100
37) Ethyl Acetate	4.26	43	6883	15.931	ug/l 100
38) Carbon Tetrachloride	4.16	117	86652	80.257	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	63308	73.849	ug/l	100
40) Benzene	4.80	78	78460	44.477	ug/l	100
41) Methacrylonitrile	4.89	41	3831	17.336	ug/l	100
42) 1,2-Dichloroethane	5.09	62	27110	30.352	ug/l	100
43) Isopropyl Acetate	7.09	43	8059	14.968	ug/l	100
44) Trichloroethene	5.66	130	34954	57.031	ug/l	100
45) 1,2-Dichloropropane	6.39	63	16967	35.640	ug/l	100
46) Dibromomethane	6.25	93	9326	25.875	ug/l	100
47) Bromodichloromethane	6.53	83	32726	36.103	ug/l	100
48) Methyl methacrylate	6.85	41	6499	18.079	ug/l	100
49) 1,4-Dioxane	6.83	88	866	254.485	ug/l	100
51) 4-Methyl-2-Pentanone	8.39	43	36826	78.572	ug/l	100
52) Toluene	7.77	92	63810	48.659	ug/l	100
53) t-1,3-Dichloropropene	8.42	75	19619	24.801	ug/l	100
54) cis-1,3-Dichloropropene	7.44	75	24199	27.474	ug/l	100
55) 1,1,2-Trichloroethane	8.62	97	9691	22.420	ug/l	100
56) Ethyl methacrylate	8.74	69	9150	17.882	ug/l	100
57) 1,3-Dichloropropane	8.99	76	17850	23.499	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.77	63	13584	282.883	ug/l	100
59) 2-Hexanone	9.61	43	26391	70.031	ug/l	100
60) Dibromochloromethane	8.85	129	17879	27.461	ug/l	100
61) 1,2-Dibromoethane	9.13	107	10323	20.388	ug/l	100
64) Tetrachloroethene	8.30	164	43559	80.771	ug/l	100
65) Chlorobenzene	9.93	112	68544	51.332	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	24335	48.581	ug/l	100
67) Ethyl Benzene	10.03	91	168781	68.057	ug/l	100
68) m/p-Xylenes	10.25	106	132799	143.195	ug/l	100
69) o-Xylene	10.82	106	48676	53.816	ug/l	100
70) Styrene	10.89	104	59670	44.256	ug/l	100
71) Bromoform	10.88	173	9039	28.090	ug/l	100
73) Isopropylbenzene	11.23	105	202526	83.316	ug/l	100
74) N-amyl acetate	11.45	43	12639	21.772	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.78	83	11805	28.074	ug/l	100
76) 1,2,3-Trichloropropane	11.88	75	10875	32.542	ug/l	100
77) Bromobenzene	11.59	156	27784	48.779	ug/l	100
78) n-propylbenzene	11.68	91	240068	80.829	ug/l	100
79) 2-Chlorotoluene	11.81	91	109470	66.626	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	150126	73.965	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.95	75	2668	18.575	ug/l	100
82) 4-Chlorotoluene	11.98	91	105750	60.719	ug/l	100
83) tert-Butylbenzene	12.21	119	151557	75.804	ug/l	100
84) 1,2,4-Trimethylbenzene	12.28	105	130205	62.977	ug/l	100
85) sec-Butylbenzene	12.38	105	237469	82.605	ug/l	100
86) p-Isopropyltoluene	12.54	119	181787	78.108	ug/l	100
87) 1,3-Dichlorobenzene	12.56	146	59258	54.798	ug/l	100
88) 1,4-Dichlorobenzene	12.63	146	52629	49.715	ug/l	100
89) n-Butylbenzene	12.91	91	156940	71.954	ug/l	100
90) Hexachloroethane	12.99	117	38203	74.333	ug/l	100
91) 1,2-Dichlorobenzene	13.01	146	45823	45.794	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.71	75	2194	25.847	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF082918\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	20943	30.514	ug/l	100
94) Hexachlorobutadiene	14.25	225	42026	79.629	ug/l	100
95) Naphthalene	14.52	128	14863	15.268	ug/l	100
96) 1,2,3-Trichlorobenzene	14.67	180	16651	25.893	ug/l	100

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

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ALS Vial      : 30      Sample Multiplier: 1
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Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

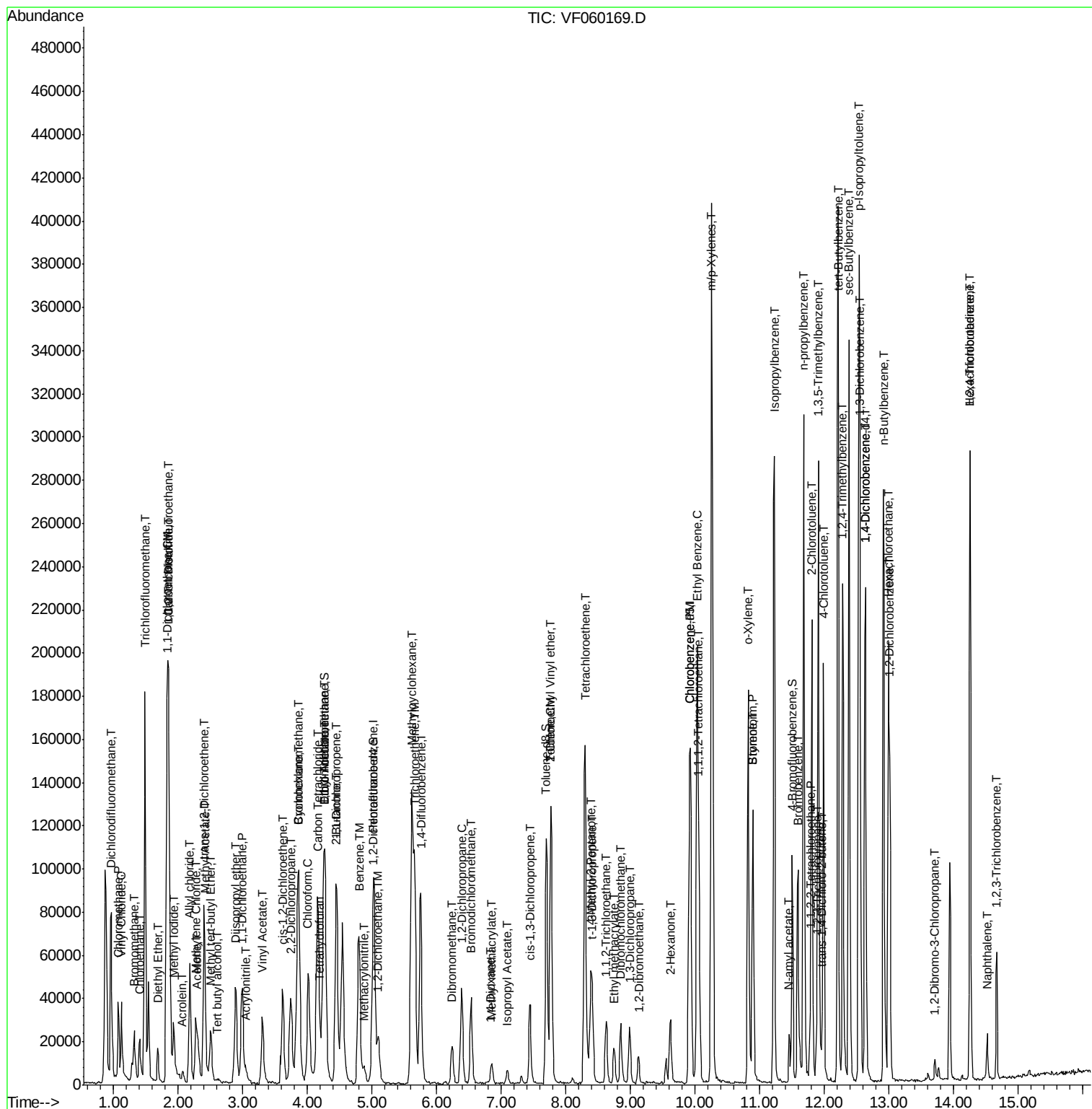
Quant Time: Aug 29 02:11:13 2018

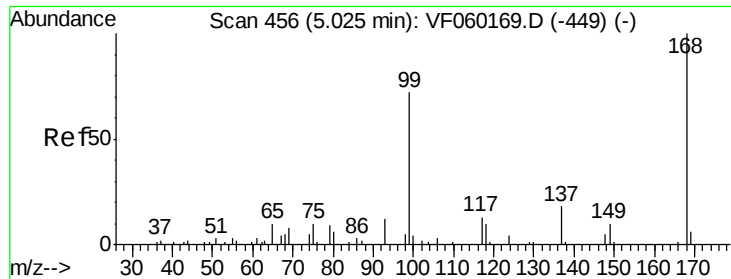
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_F\METHODS\82F082918S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 29 02:08:40 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

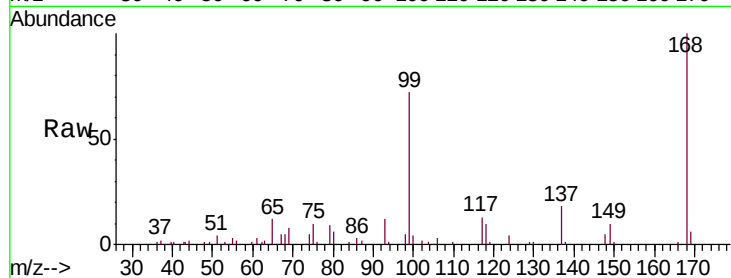
VSTDICCC050

Tgt Ion:168 Resp: 76803

Ion Ratio Lower Upper

168 100

99 72.4 57.9 86.9

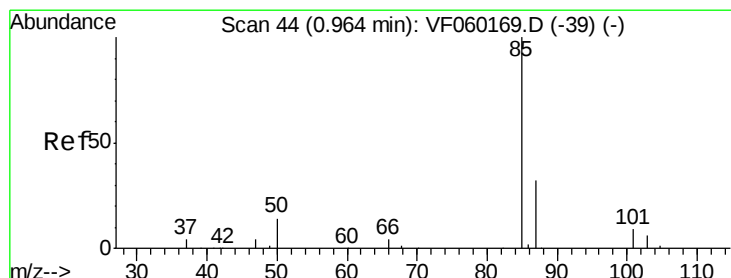
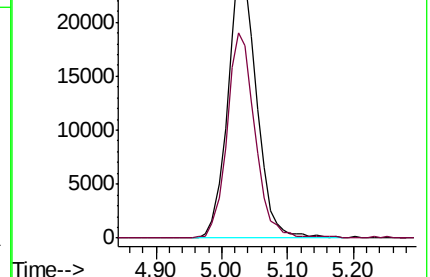
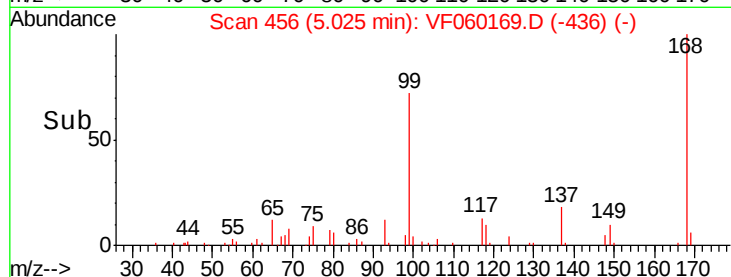


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

Time-->



#2

Dichlorodifluoromethane

Concen: 71.992 ug/l

RT: 0.96 min Scan# 44

Delta R.T. 0.00 min

Lab File: VF060169.D

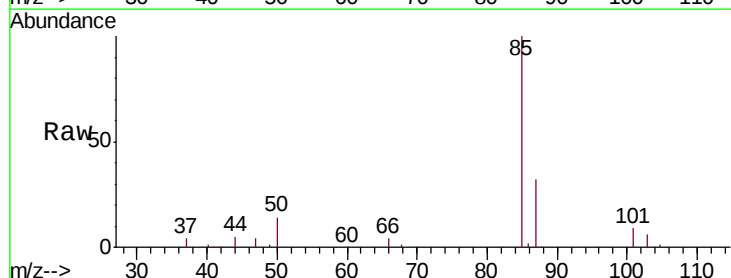
Acq: 29 Aug 2018 1:26

Tgt Ion: 85 Resp: 80786

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.7

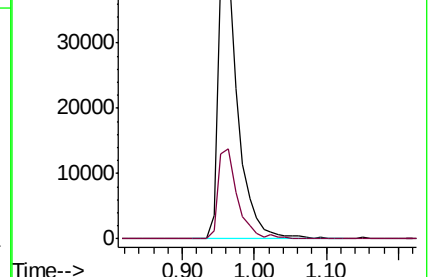
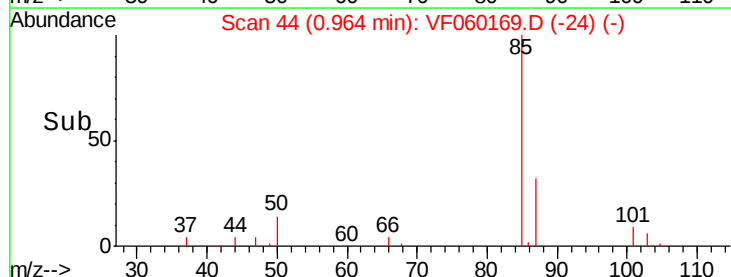


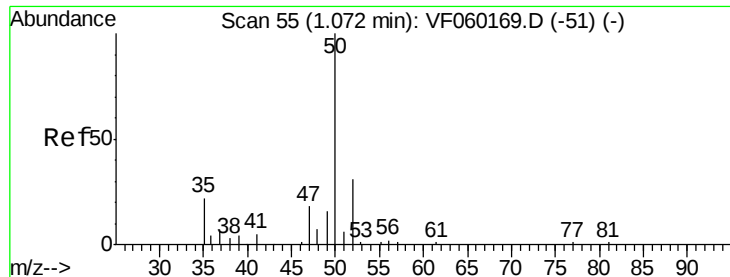
Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

Time-->





#3

Chloromethane

Concen: 38.164 ug/l

RT: 1.07 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

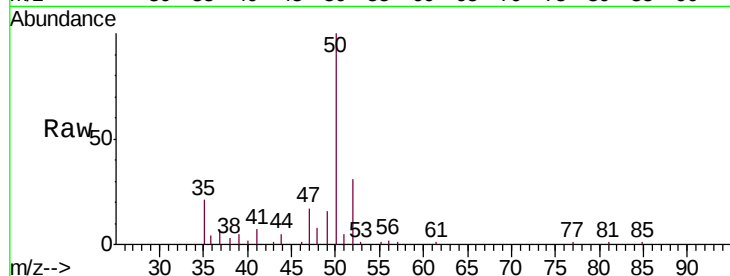
VSTDICCC050

Tgt Ion: 50 Resp: 27763

Ion Ratio Lower Upper

50 100

52 30.5 24.4 36.6



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

15000

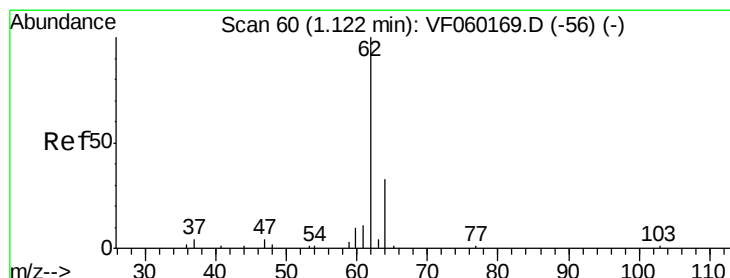
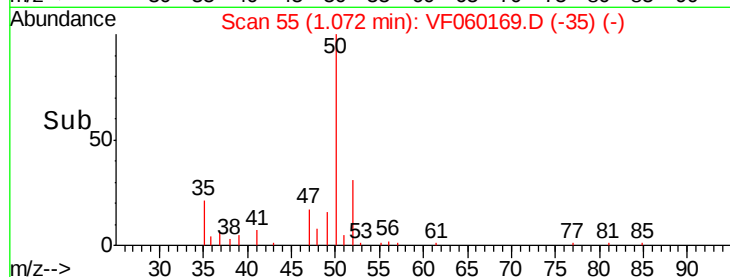
10000

5000

0

1.00 1.10 1.20 1.30

Time-->



#4

Vinyl Chloride

Concen: 46.005 ug/l

RT: 1.12 min Scan# 60

Delta R.T. 0.00 min

Lab File: VF060169.D

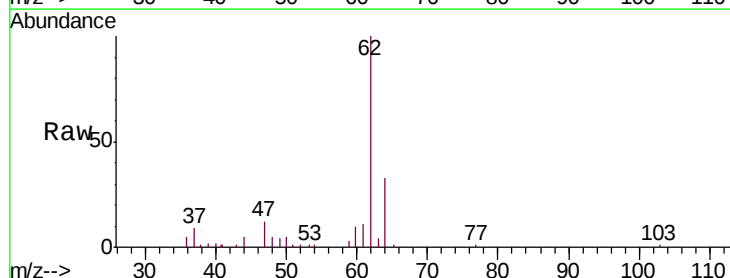
Acq: 29 Aug 2018 1:26

Tgt Ion: 62 Resp: 28724

Ion Ratio Lower Upper

62 100

64 33.2 26.6 39.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

20000

15000

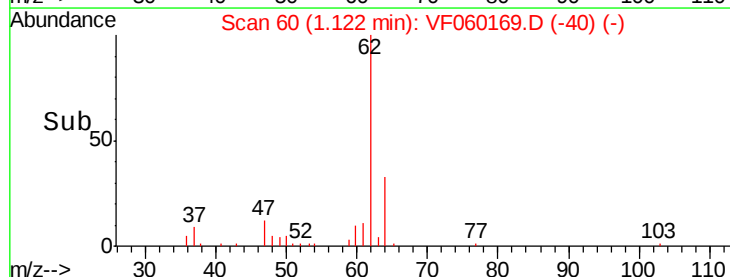
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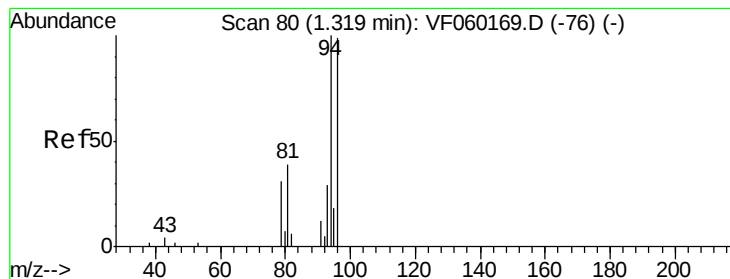
5000

0

1.10 1.20

Time-->





#5

Bromomethane

Concen: 30.805 ug/l

RT: 1.32 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

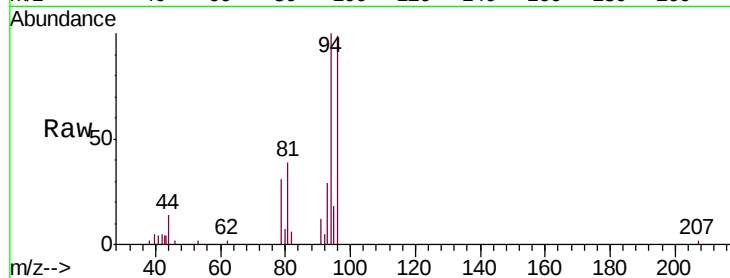
VSTDICCC050

Tgt Ion: 94 Resp: 13742

Ion Ratio Lower Upper

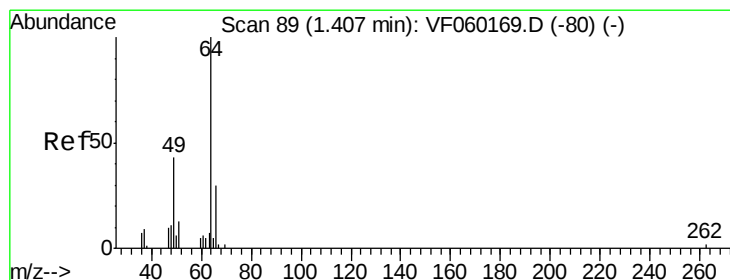
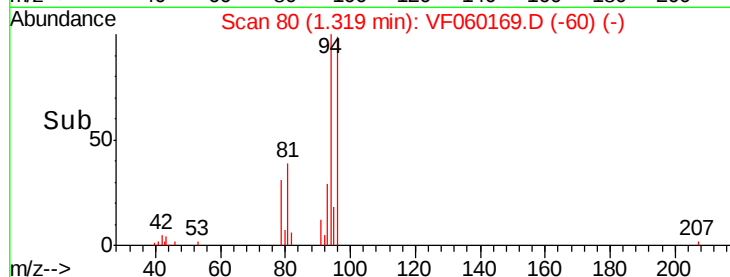
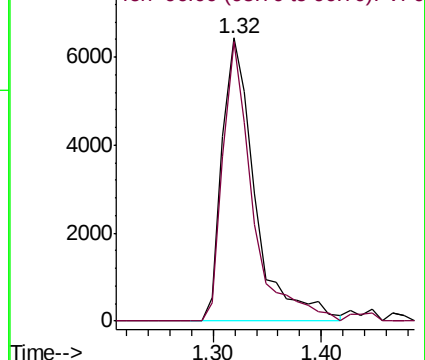
94 100

96 98.7 79.0 118.4



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 66.763 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF060169.D

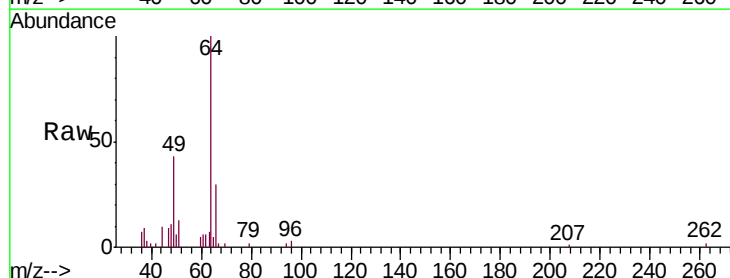
Acq: 29 Aug 2018 1:26

Tgt Ion: 64 Resp: 17840

Ion Ratio Lower Upper

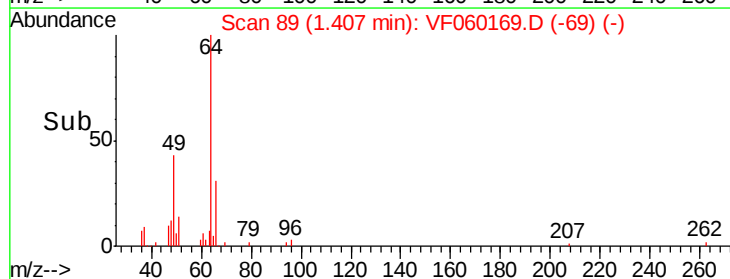
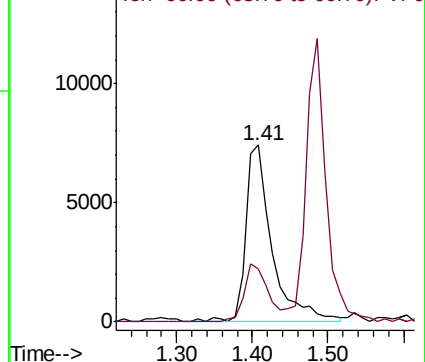
64 100

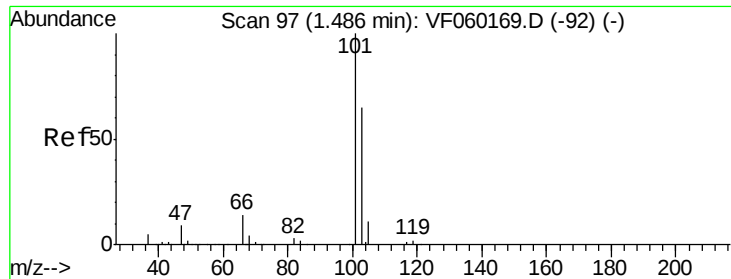
66 30.3 24.2 36.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 90.229 ug/l

RT: 1.49 min Scan# 97

Delta R.T. 0.00 min

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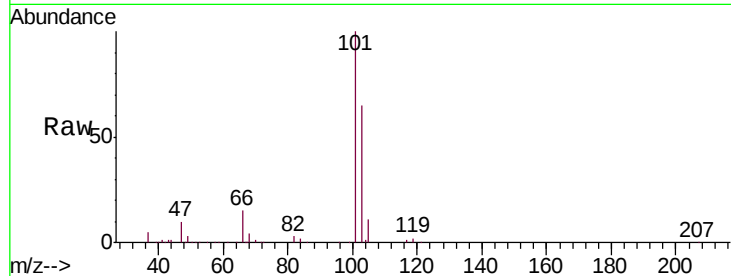
VSTDICCC050

Tgt Ion:101 Resp: 134598

Ion Ratio Lower Upper

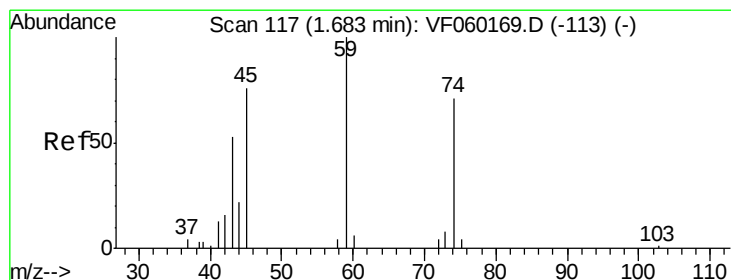
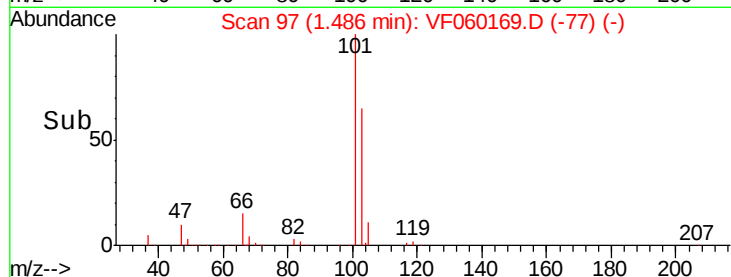
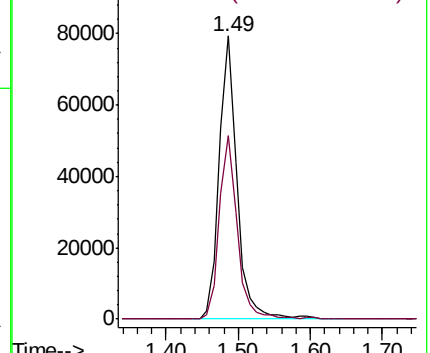
101 100

103 64.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 24.672 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.00 min

Lab File: VF060169.D

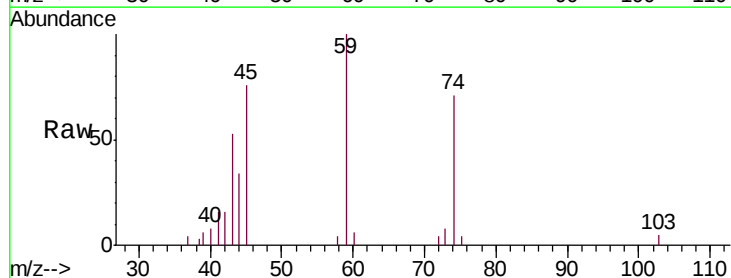
Acq: 29 Aug 2018 1:26

Tgt Ion: 74 Resp: 5030

Ion Ratio Lower Upper

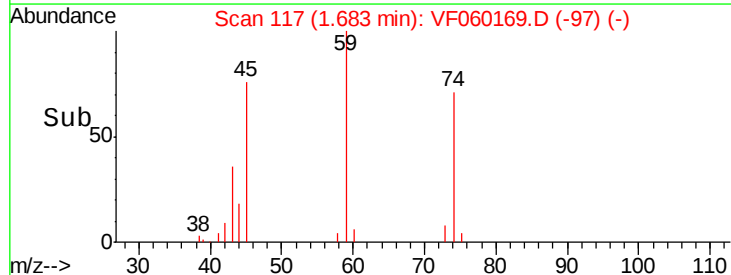
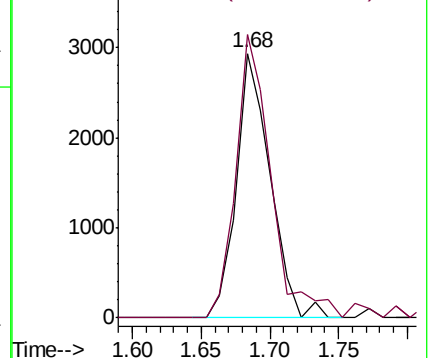
74 100

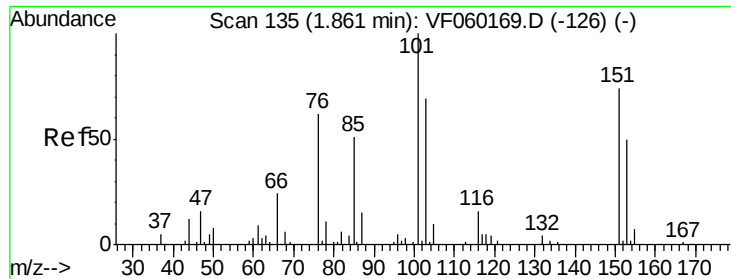
45 107.1 53.5 160.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 79.798 ug/l

RT: 1.86 min Scan# 135

Delta R.T. 0.00 min

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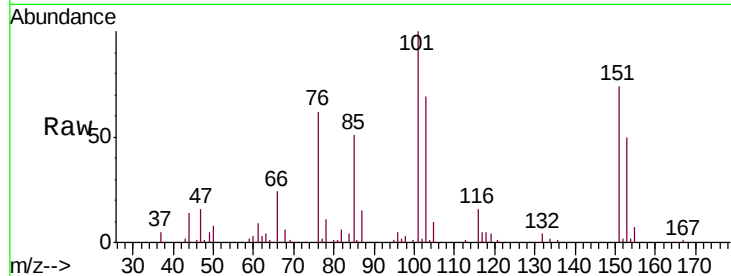
Tgt Ion:101 Resp: 59950

Ion Ratio Lower Upper

101 100

85 52.7 42.2 63.2

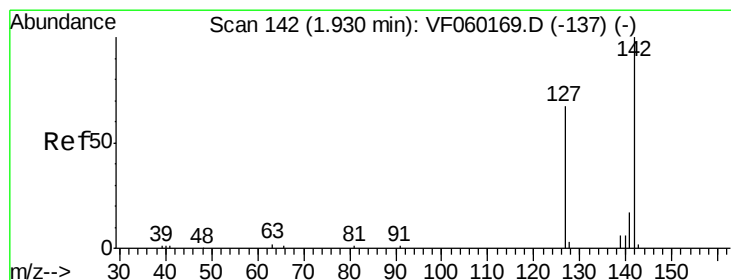
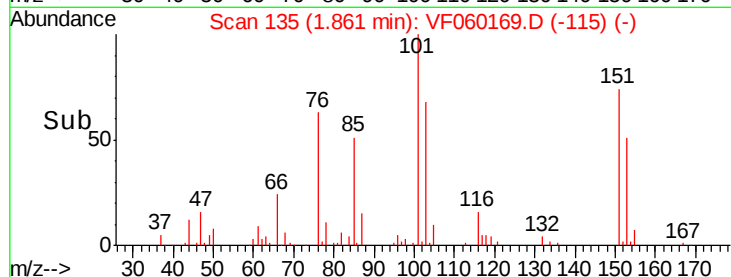
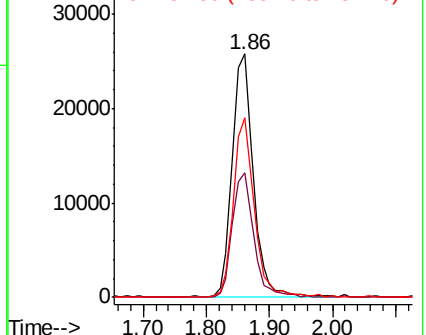
151 74.0 59.2 88.8



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



#10

Methyl Iodide

Concen: 33.409 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

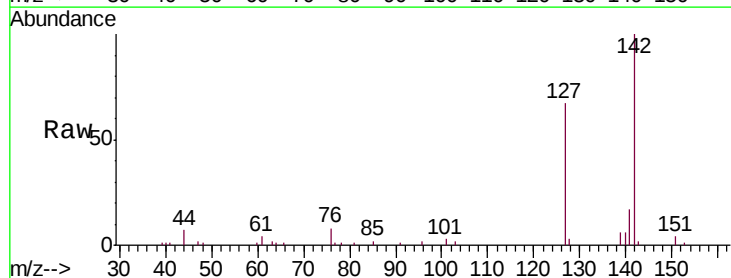
Tgt Ion:142 Resp: 27164

Ion Ratio Lower Upper

142 100

127 67.4 53.9 80.9

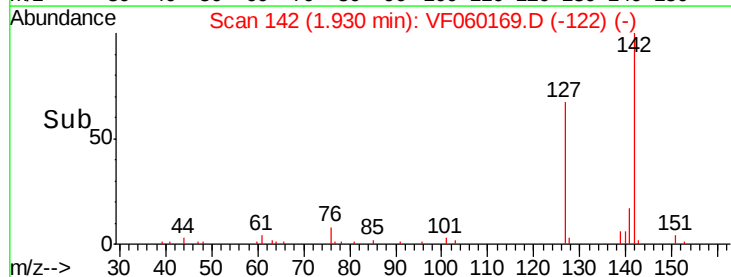
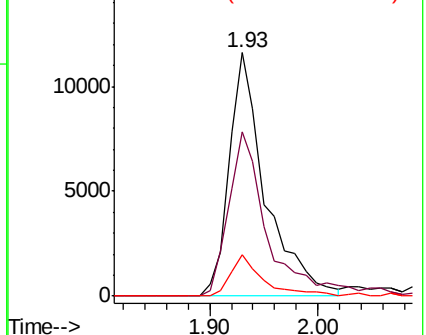
141 16.8 13.4 20.2

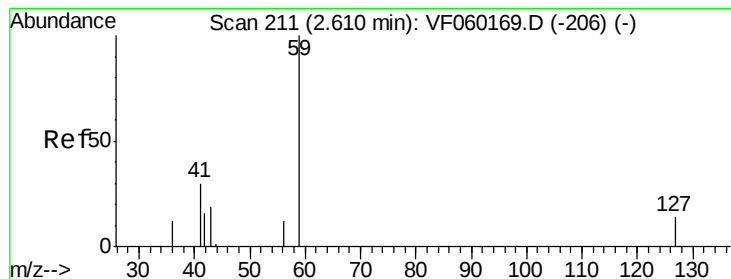


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



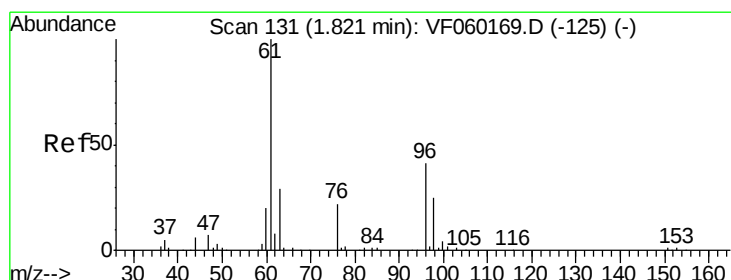
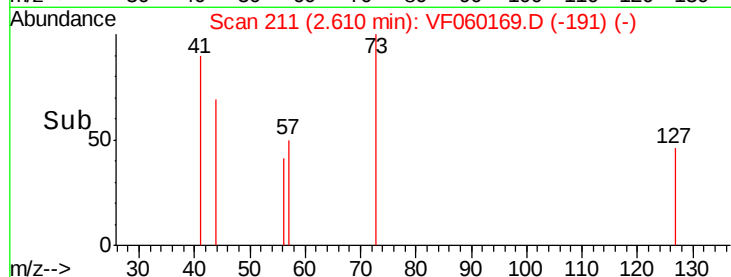
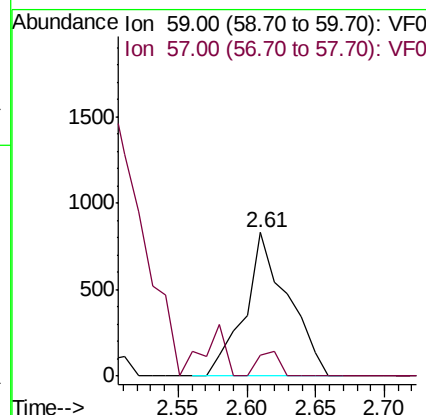
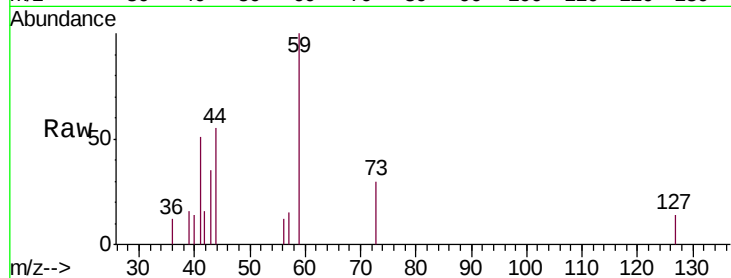


#11

Tert butyl alcohol
Concen: 37.896 ug/l
RT: 2.61 min Scan# 211
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

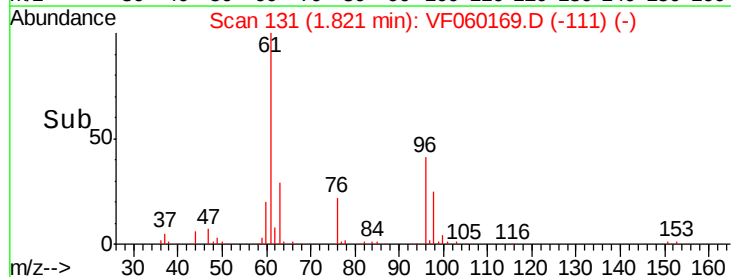
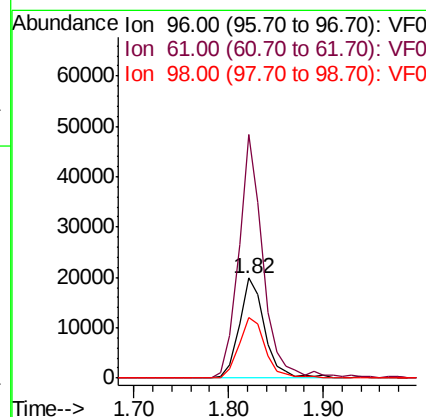
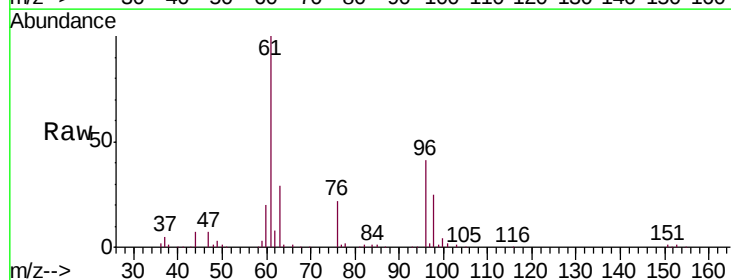
Tgt Ion: 59 Resp: 1812
Ion Ratio Lower Upper
59 100
57 14.9 11.9 17.9

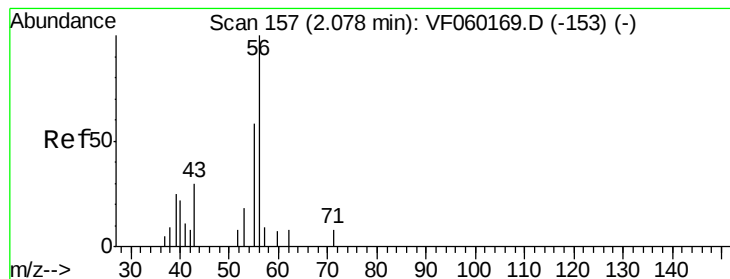


#12

1,1-Dichloroethene
Concen: 70.089 ug/l
RT: 1.82 min Scan# 131
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 96 Resp: 37104
Ion Ratio Lower Upper
96 100
61 244.0 195.2 292.8
98 61.3 49.0 73.6





#13

Acrolein

Concen: 104.769 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

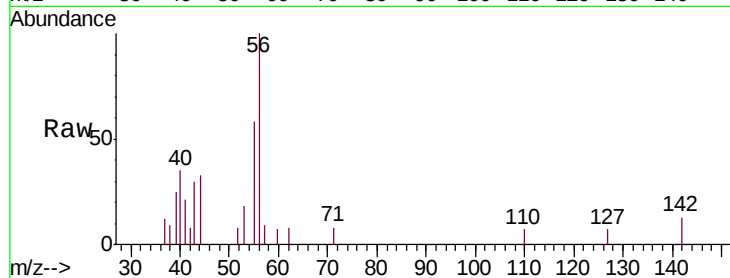
VSTDICCC050

Tgt Ion: 56 Resp: 2533

Ion Ratio Lower Upper

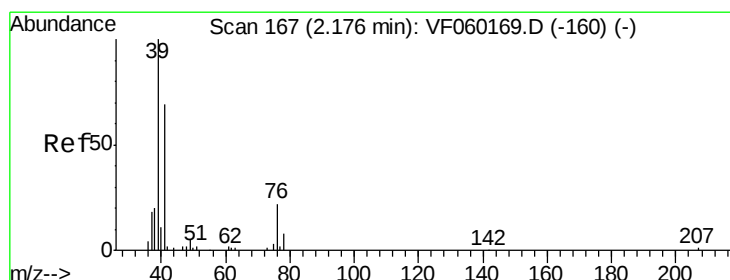
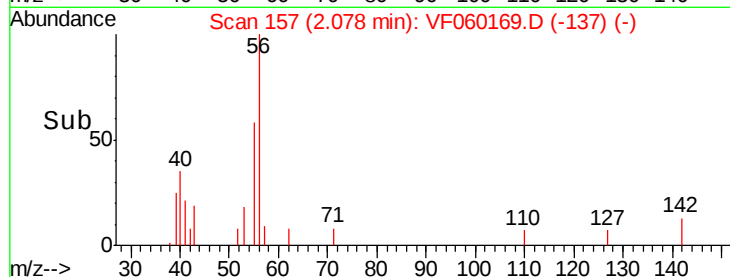
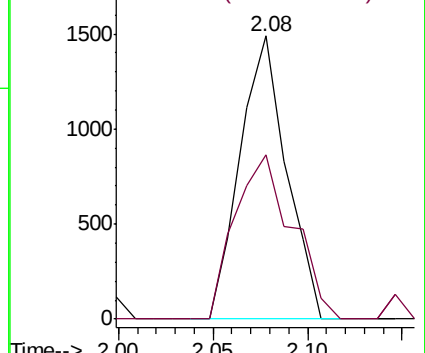
56 100

55 58.0 46.4 69.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 36.603 ug/l

RT: 2.18 min Scan# 167

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

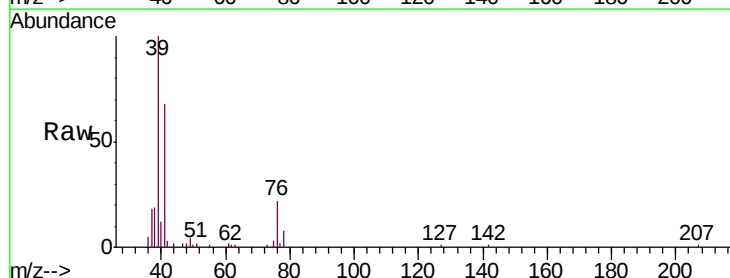
Tgt Ion: 41 Resp: 30316

Ion Ratio Lower Upper

41 100

39 147.2 117.8 176.6

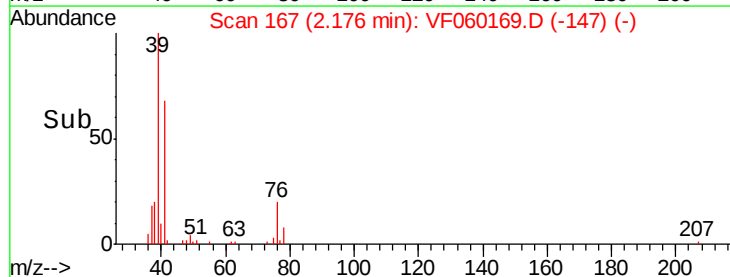
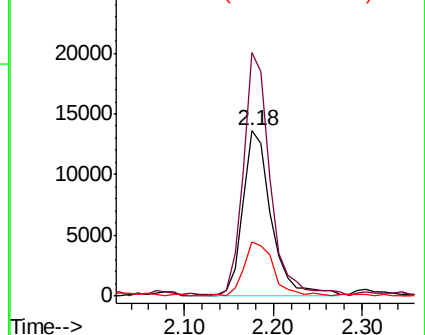
76 32.4 25.9 38.9

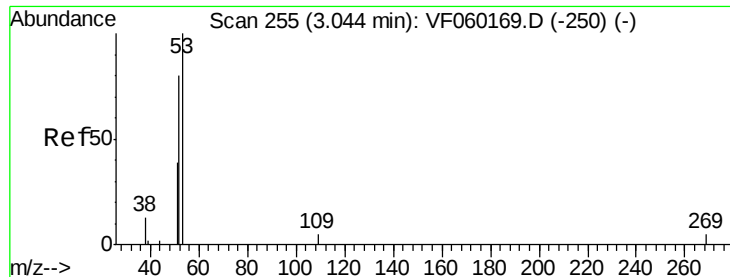


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 59.448 ug/l

RT: 3.04 min Scan# 255

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

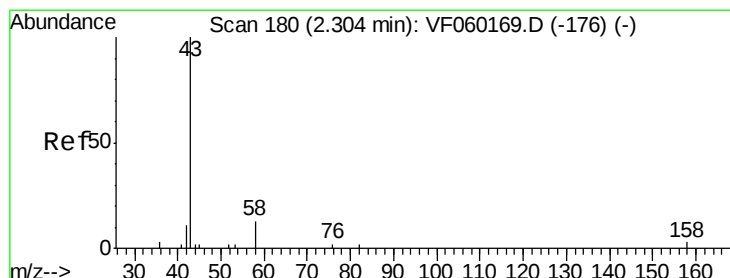
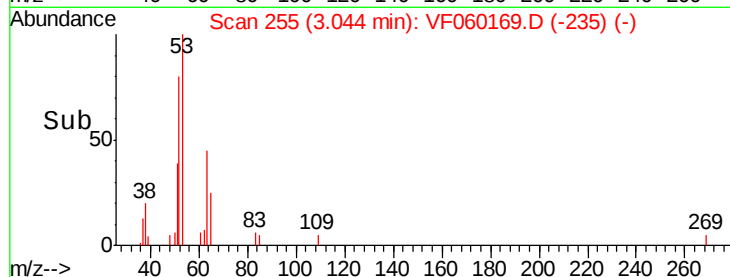
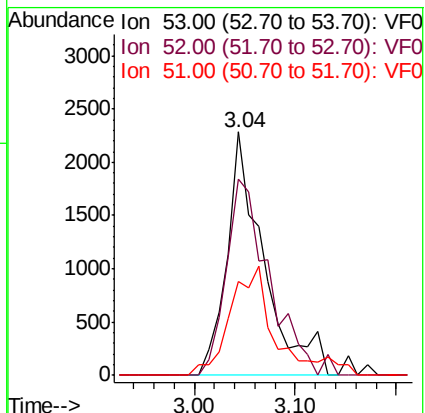
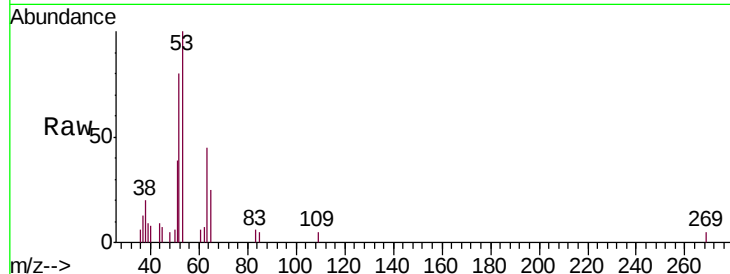
Tgt Ion: 53 Resp: 5760

Ion Ratio Lower Upper

53 100

52 80.5 64.4 96.6

51 38.7 31.0 46.4



#16

Acetone

Concen: 58.846 ug/l

RT: 2.30 min Scan# 180

Delta R.T. 0.00 min

Lab File: VF060169.D

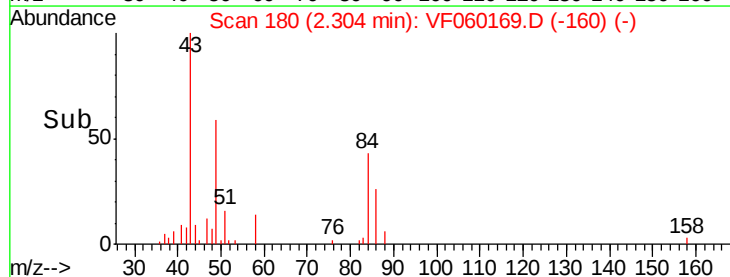
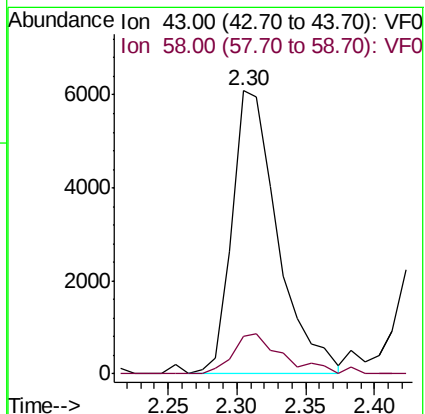
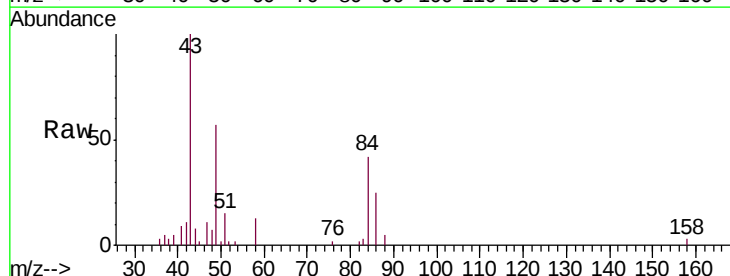
Acq: 29 Aug 2018 1:26

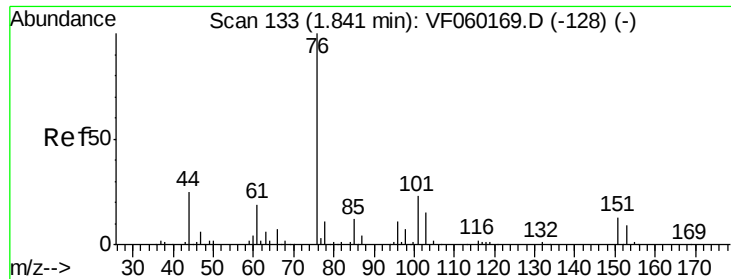
Tgt Ion: 43 Resp: 14083

Ion Ratio Lower Upper

43 100

58 13.4 10.7 16.1

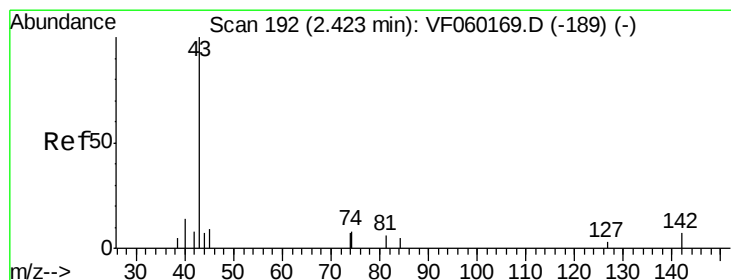
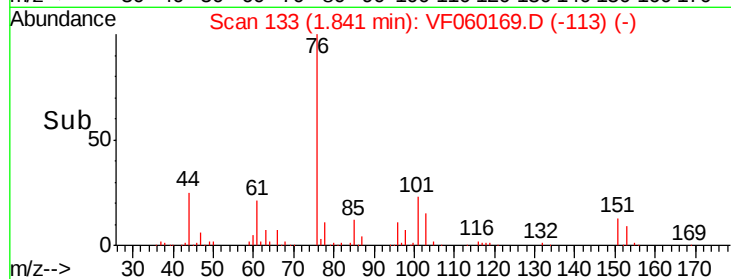
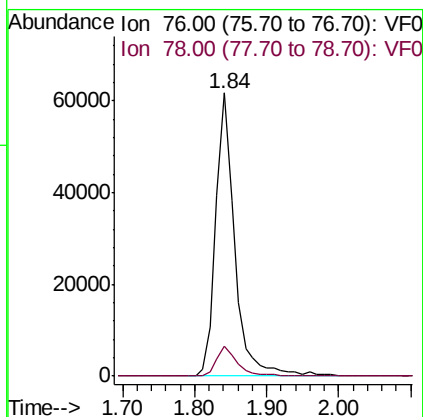
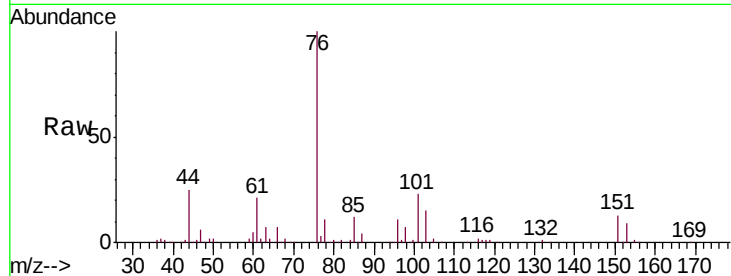




#17
Carbon Disulfide
Concen: 67.060 ug/l
RT: 1.84 min Scan# 133
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

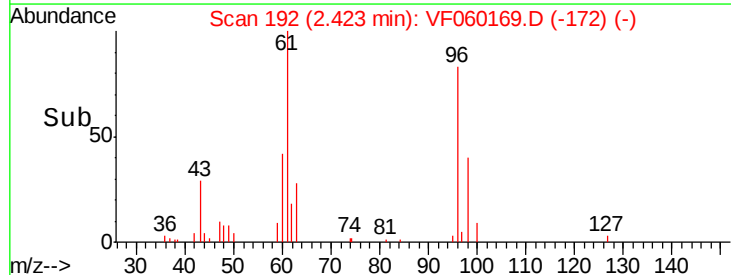
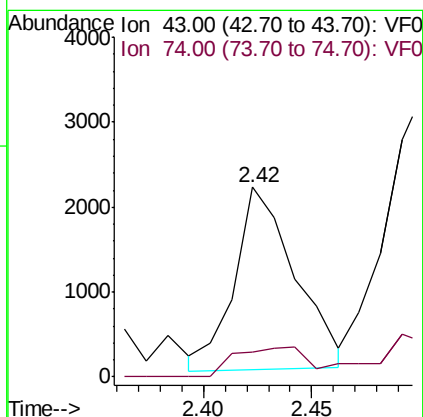
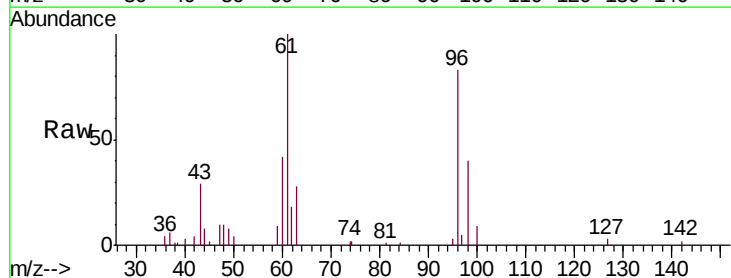
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

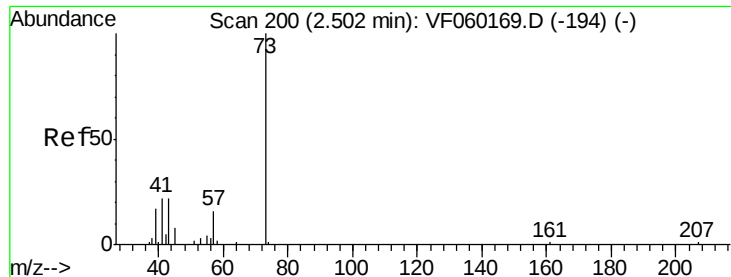
Tgt Ion: 76 Resp: 112075
Ion Ratio Lower Upper
76 100
78 10.7 8.6 12.8



#18
Methyl Acetate
Concen: 8.971 ug/l
RT: 2.42 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 43 Resp: 4219
Ion Ratio Lower Upper
43 100
74 13.3 10.6 16.0

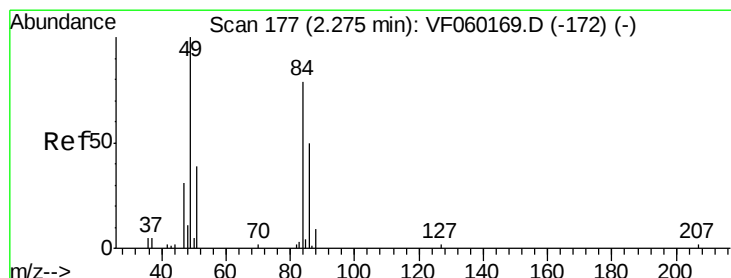
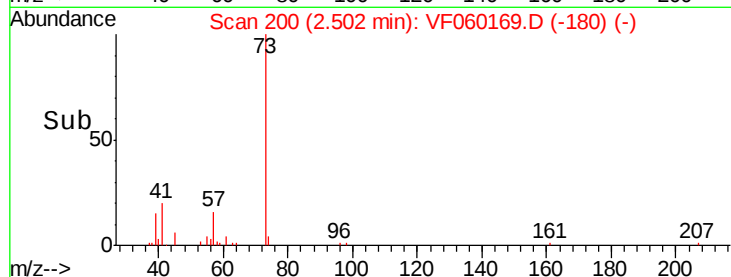
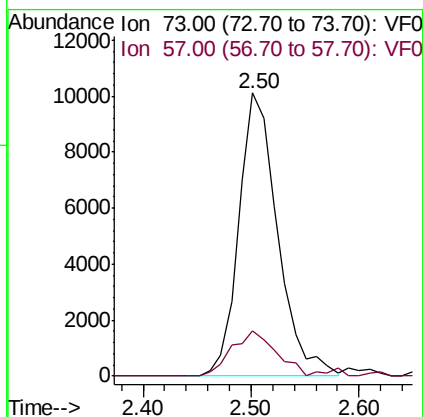
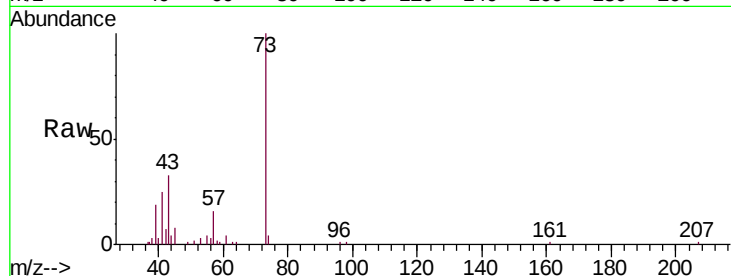




#19
Methyl tert-butyl Ether
Concen: 18.180 ug/l
RT: 2.50 min Scan# 200
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

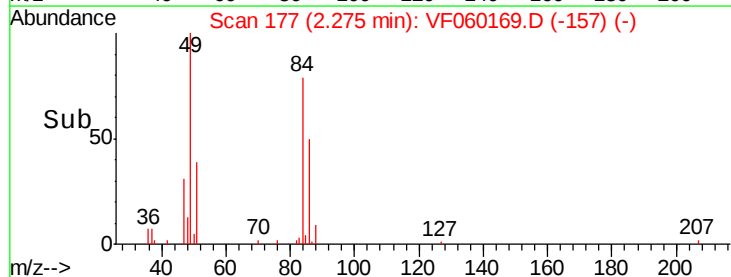
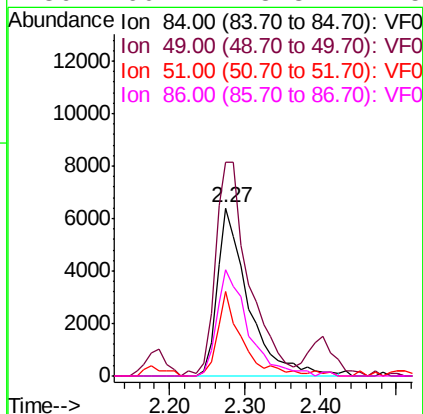
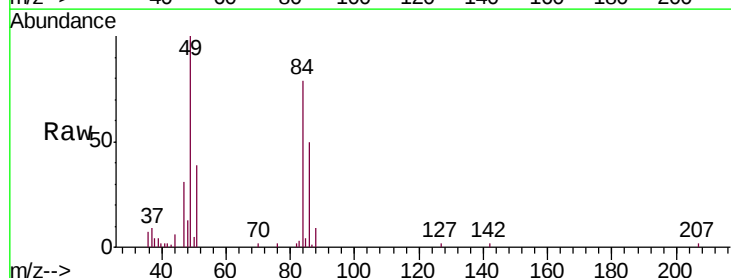
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

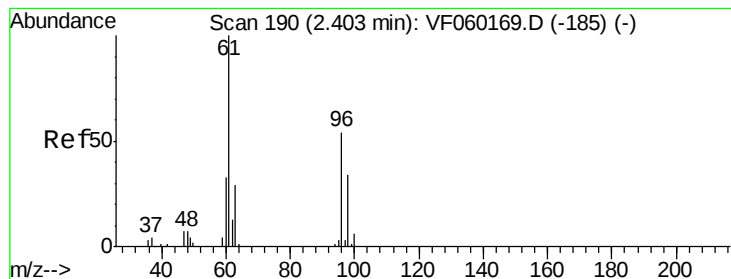
Tgt Ion: 73 Resp: 25185
Ion Ratio Lower Upper
73 100
57 16.2 13.0 19.4



#20
Methylene Chloride
Concen: 30.054 ug/l
RT: 2.27 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 84 Resp: 18339
Ion Ratio Lower Upper
84 100
49 121.2 97.0 145.4
51 47.7 38.2 57.2
86 60.4 48.3 72.5





#21

trans-1,2-Dichloroethene

Concen: 55.902 ug/l

RT: 2.40 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

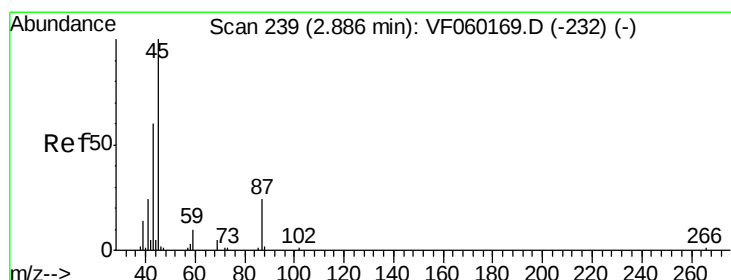
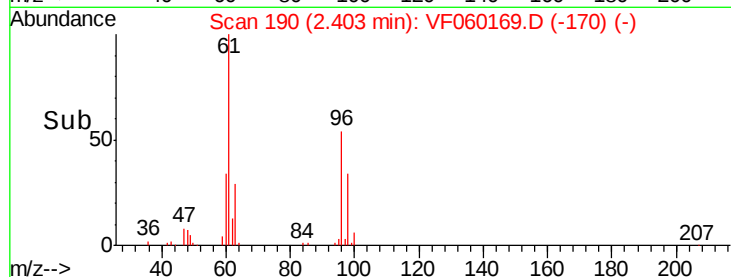
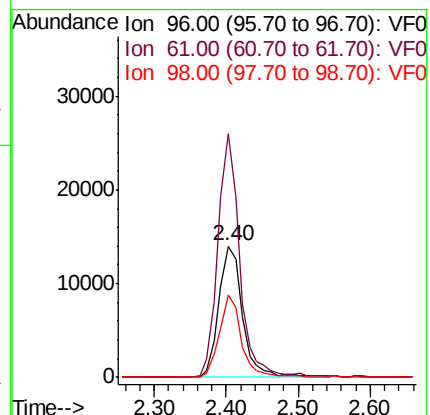
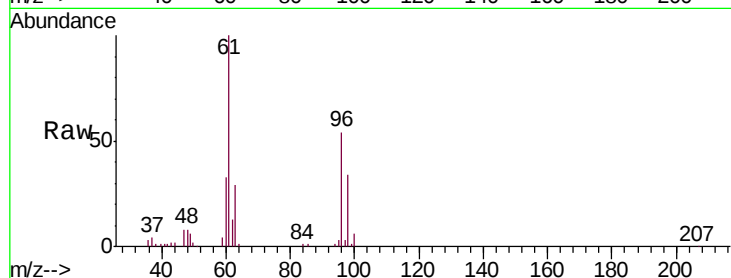
Tgt Ion: 96 Resp: 31789

Ion Ratio Lower Upper

96 100

61 185.7 148.6 222.8

98 63.0 50.4 75.6



#22

Diisopropyl ether

Concen: 27.174 ug/l

RT: 2.89 min Scan# 239

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Tgt Ion: 45 Resp: 48316

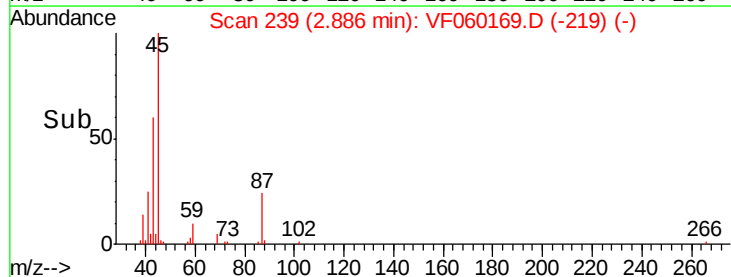
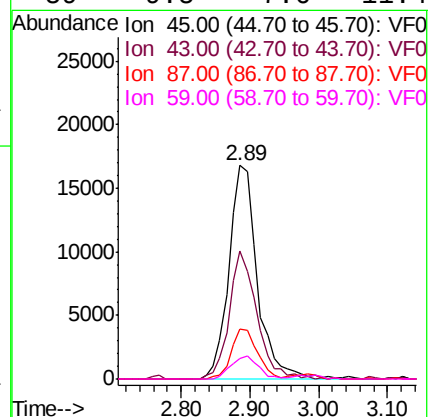
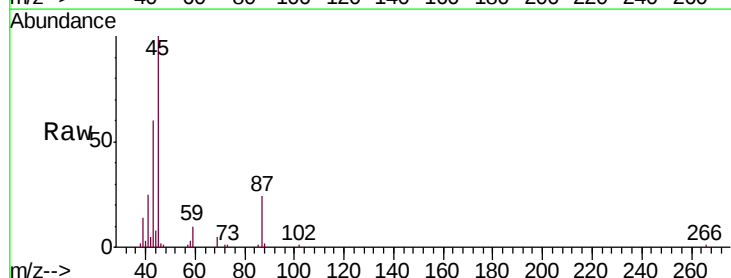
Ion Ratio Lower Upper

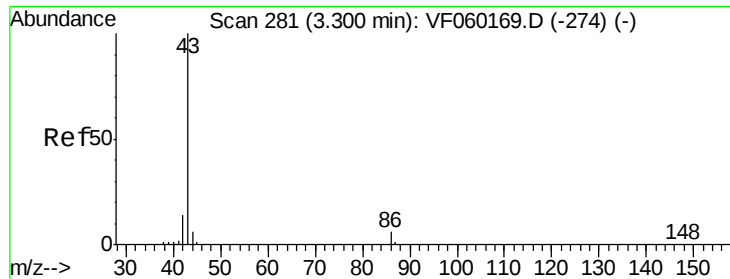
45 100

43 60.0 48.0 72.0

87 23.6 18.9 28.3

59 9.5 7.6 11.4





#23

Vinyl Acetate

Concen: 72.308 ug/l

RT: 3.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

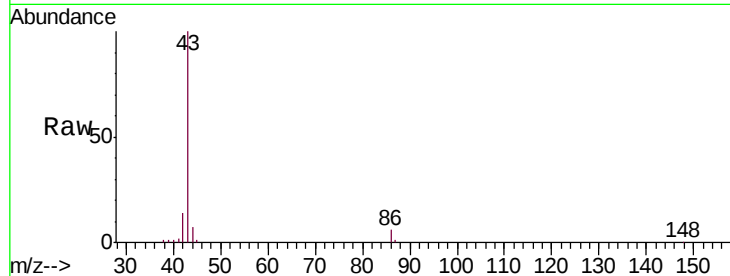
VSTDICCC050

Tgt Ion: 43 Resp: 64070

Ion Ratio Lower Upper

43 100

86 6.1 4.9 7.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

25000

20000

15000

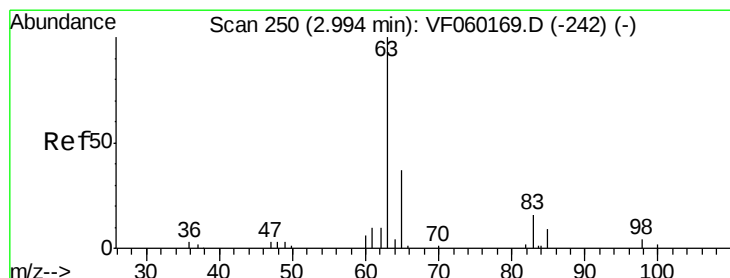
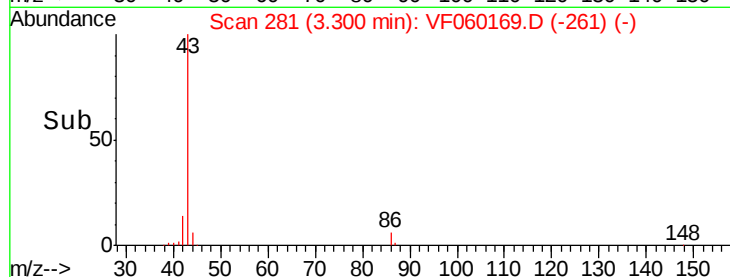
10000

5000

0

3.20 3.30 3.40 3.50

Time-->



#24

1,1-Dichloroethane

Concen: 44.052 ug/l

RT: 2.99 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

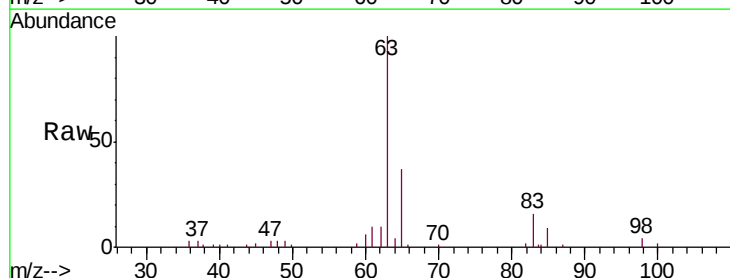
Tgt Ion: 63 Resp: 51742

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

100 1.8 0.9 2.7



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

25000

20000

15000

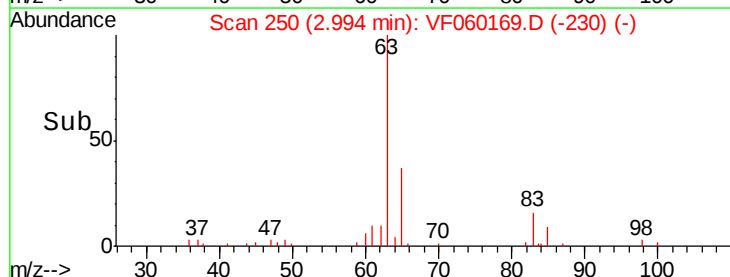
10000

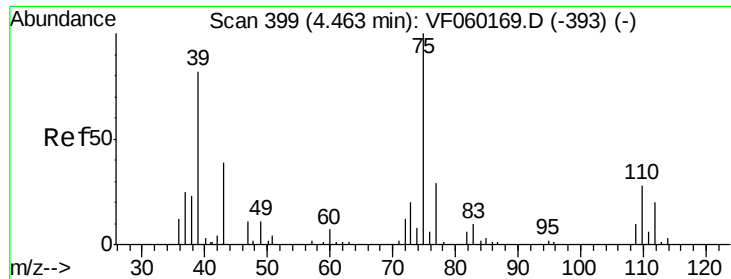
5000

0

2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 46.001 ug/l

RT: 4.46 min Scan# 399

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

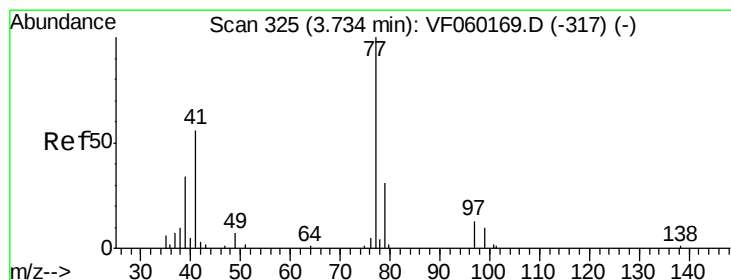
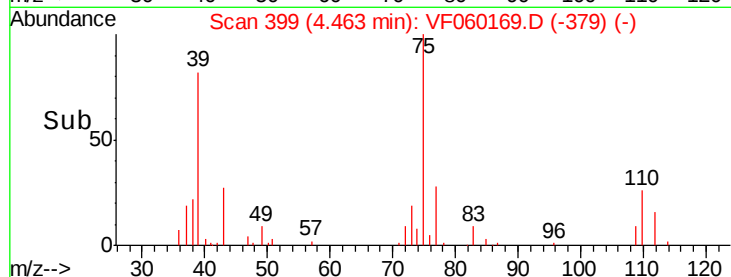
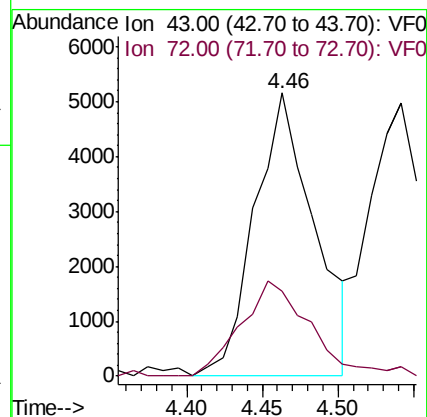
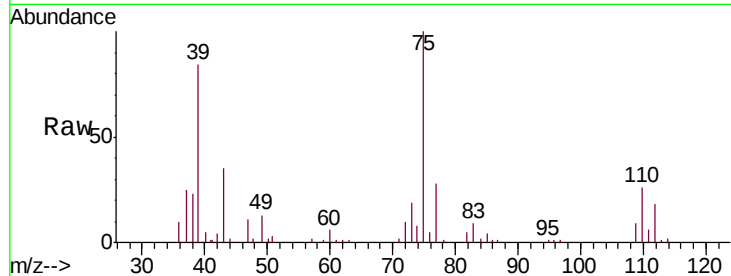
VSTDICCC050

Tgt Ion: 43 Resp: 14211

Ion Ratio Lower Upper

43 100

72 30.2 24.2 36.2



#26

2,2-Dichloropropane

Concen: 33.189 ug/l

RT: 3.73 min Scan# 325

Delta R.T. 0.00 min

Lab File: VF060169.D

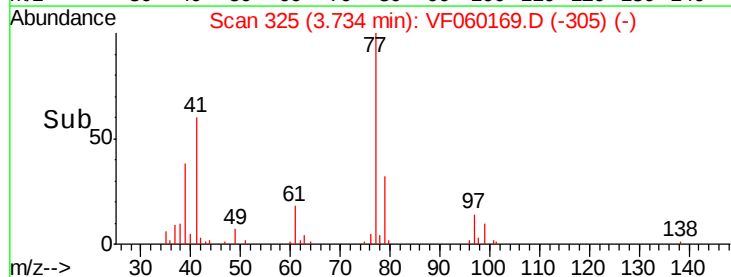
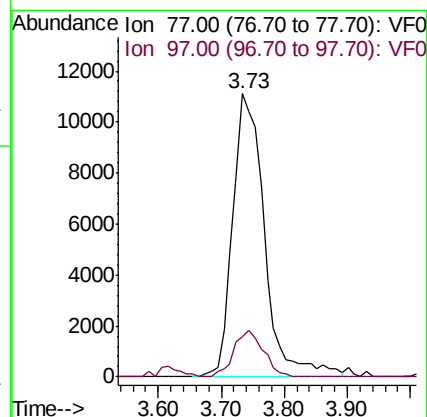
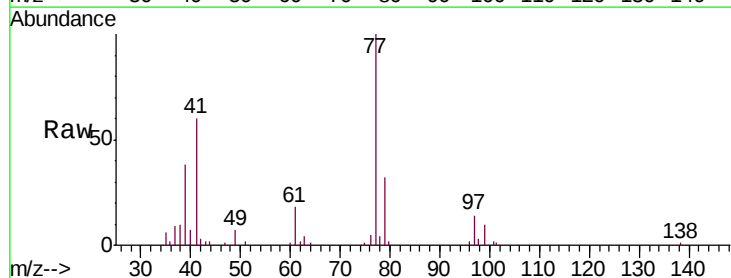
Acq: 29 Aug 2018 1:26

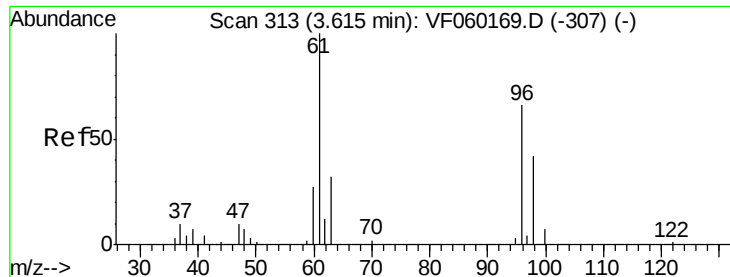
Tgt Ion: 77 Resp: 38686

Ion Ratio Lower Upper

77 100

97 14.0 7.0 21.0



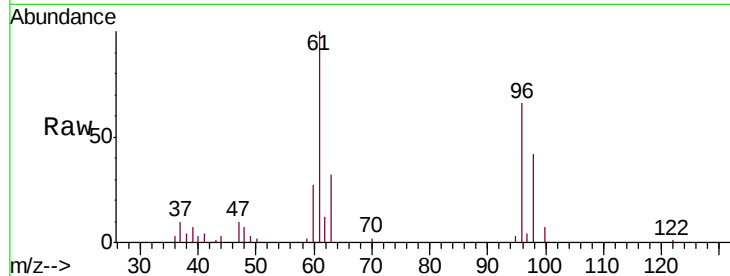


#27

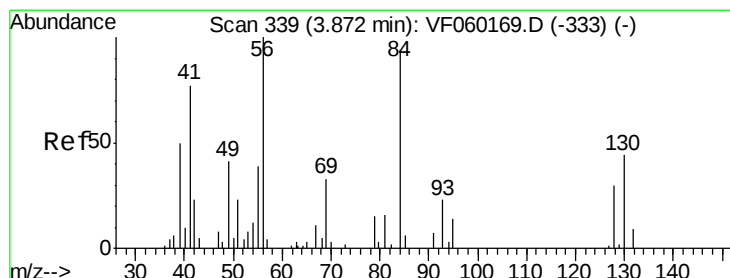
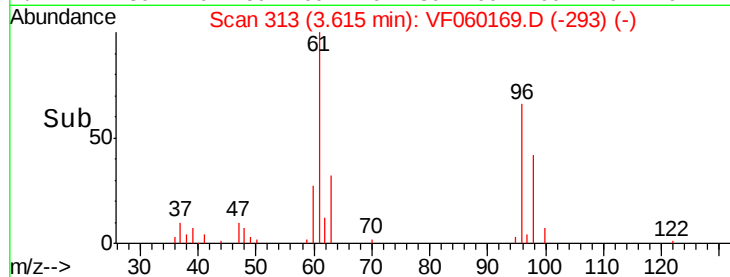
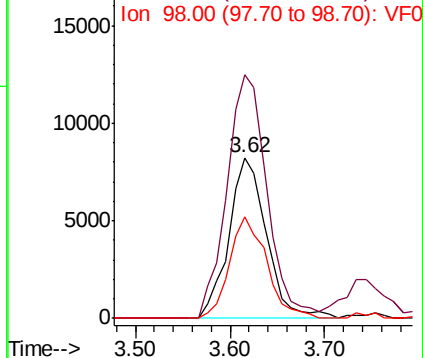
cis-1,2-Dichloroethene
 Concen: 31.538 ug/l
 RT: 3.62 min Scan# 313
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 96 Resp: 22690
 Ion Ratio Lower Upper
 96 100
 61 151.5 0.0 303.0
 98 63.4 0.0 126.8



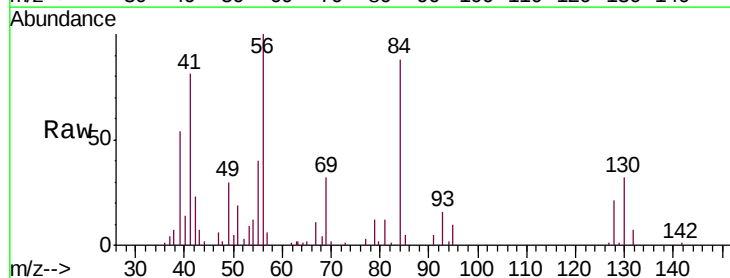
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



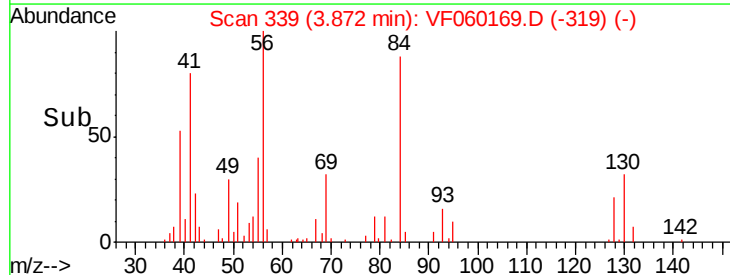
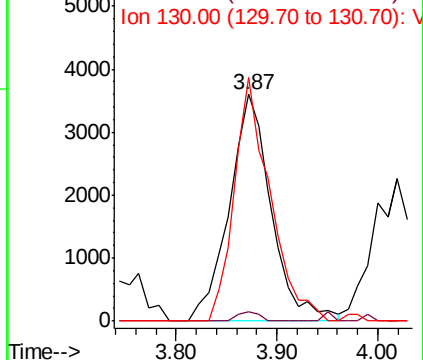
#28

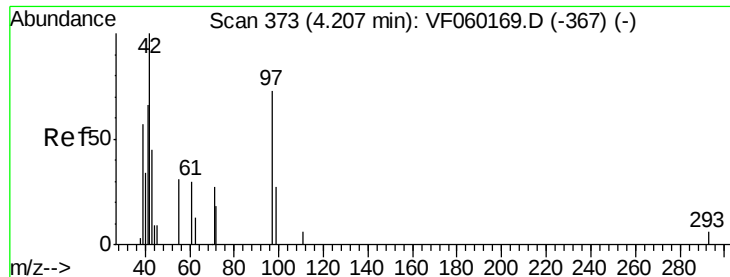
Bromochloromethane
 Concen: 22.704 ug/l
 RT: 3.87 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion: 49 Resp: 10449
 Ion Ratio Lower Upper
 49 100
 129 4.3 0.0 8.6
 130 107.5 86.0 129.0



Abundance Ion 49.00 (48.70 to 49.70): VF0
 Ion 129.00 (128.70 to 129.70): V
 Ion 130.00 (129.70 to 130.70): V

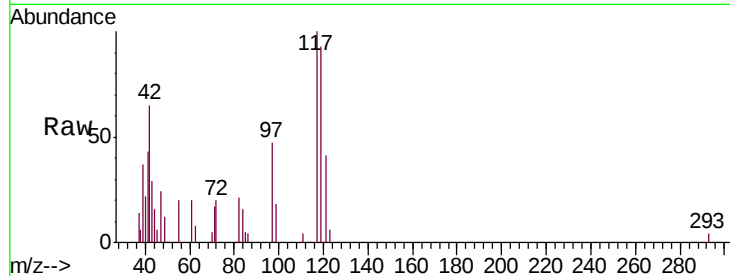




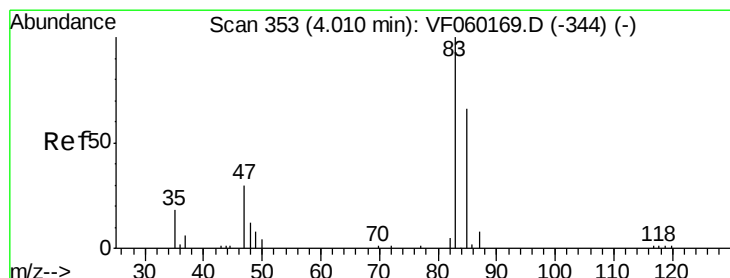
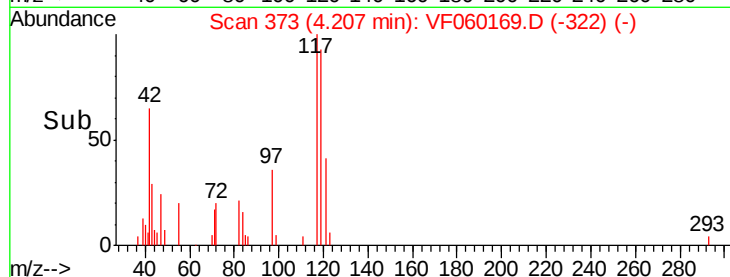
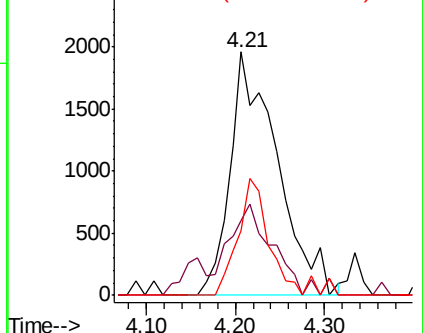
#29
Tetrahydrofuran
Concen: 61.374 ug/l
RT: 4.21 min Scan# 373
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 7235
Ion Ratio Lower Upper
42 100
72 33.7 27.0 40.4
71 30.7 24.6 36.8

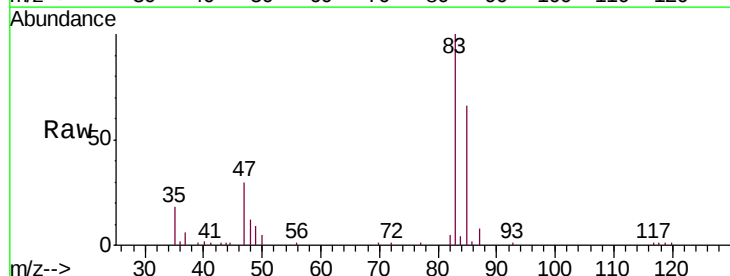


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

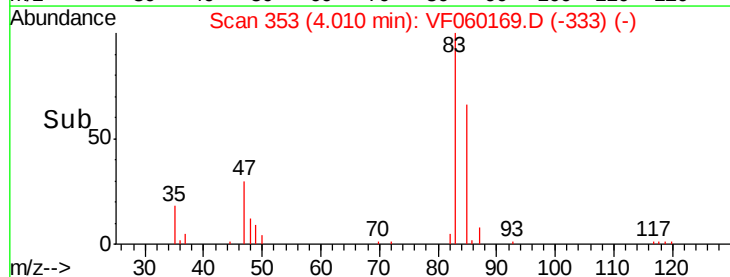
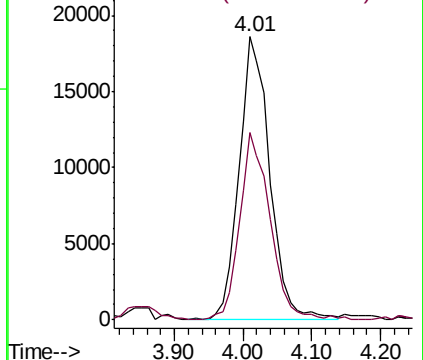


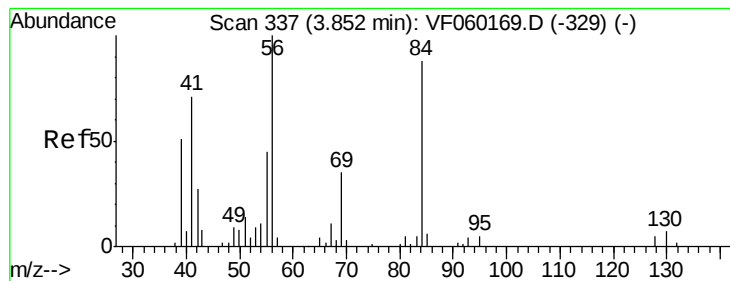
#30
Chloroform
Concen: 35.988 ug/l
RT: 4.01 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 83 Resp: 57427
Ion Ratio Lower Upper
83 100
85 66.0 52.8 79.2



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





#31

Cyclohexane

Concen: 56.777 ug/l

RT: 3.85 min Scan# 337

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

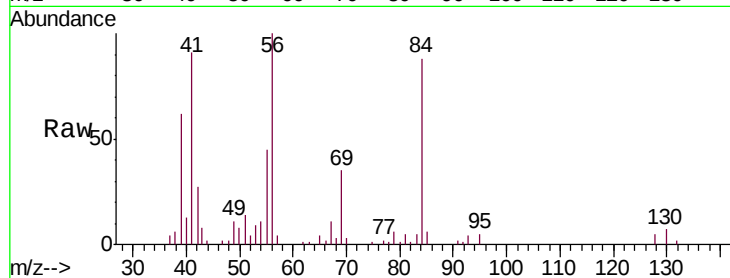
Tgt Ion: 56 Resp: 53833

Ion Ratio Lower Upper

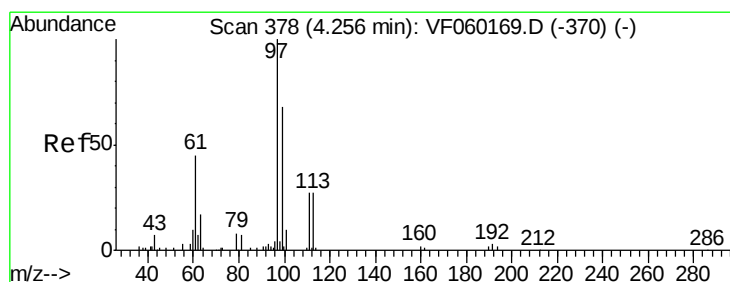
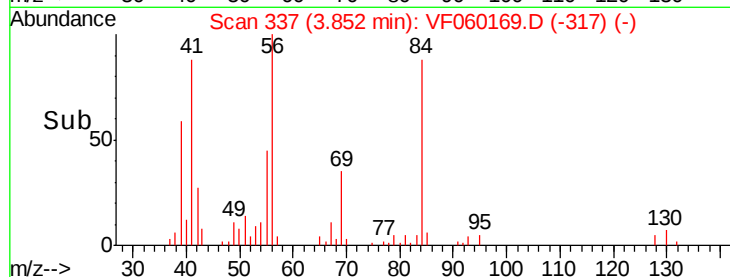
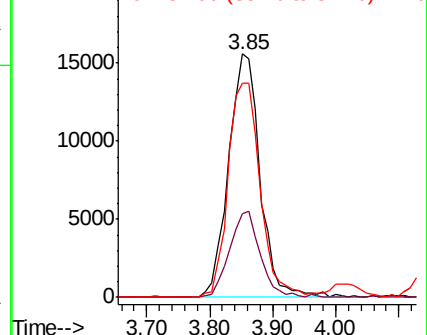
56 100

69 34.6 27.7 41.5

84 87.8 70.2 105.4



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



#32

1,1,1-Trichloroethane

Concen: 57.813 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

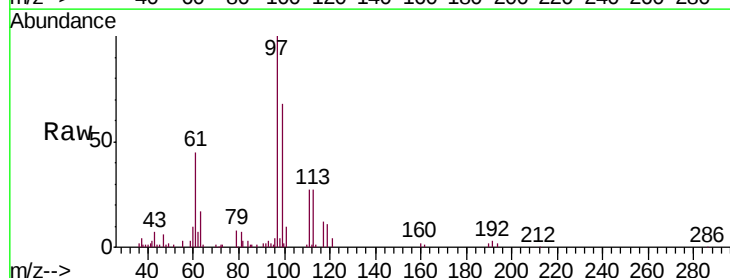
Tgt Ion: 97 Resp: 85891

Ion Ratio Lower Upper

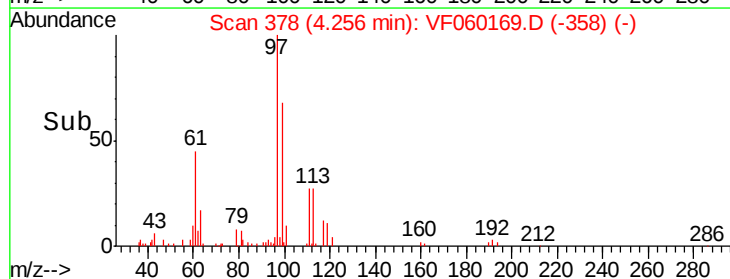
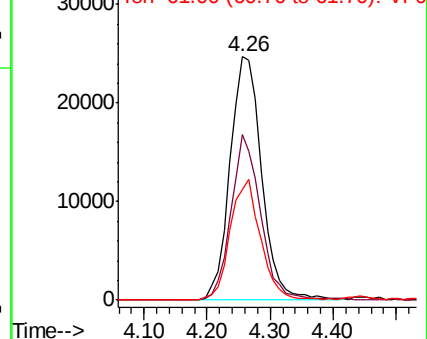
97 100

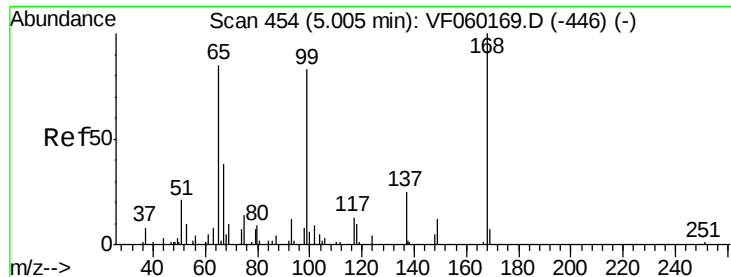
99 68.0 54.4 81.6

61 45.3 36.2 54.4



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 25.017 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

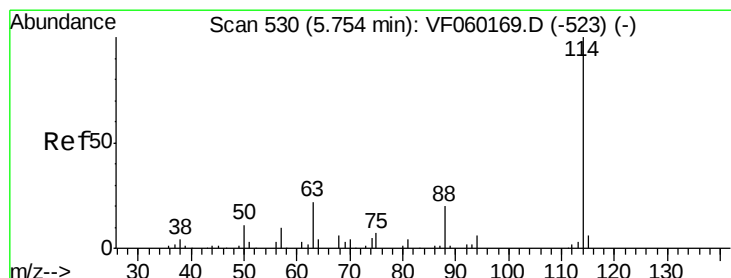
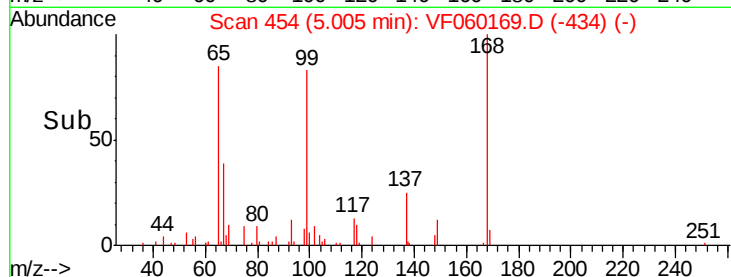
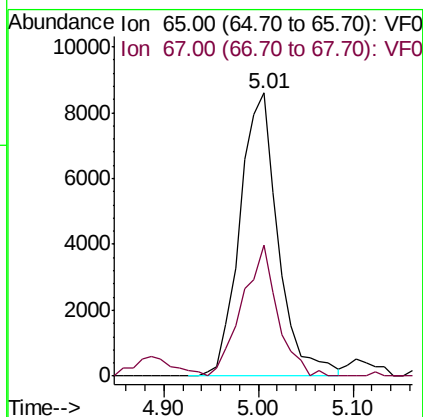
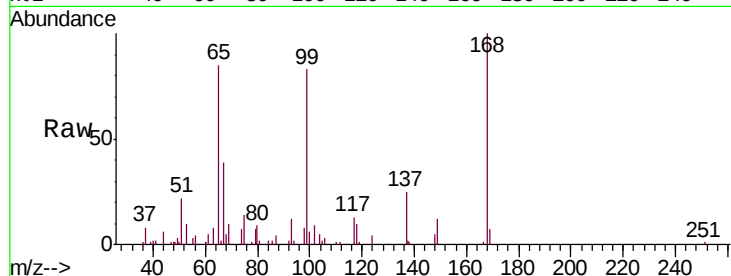
VSTDICCC050

Tgt Ion: 65 Resp: 24118

Ion Ratio Lower Upper

65 100

67 46.3 0.0 92.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

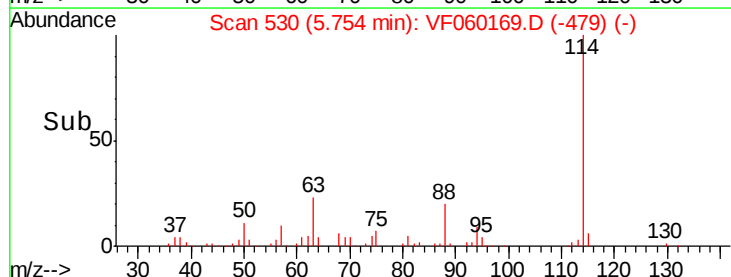
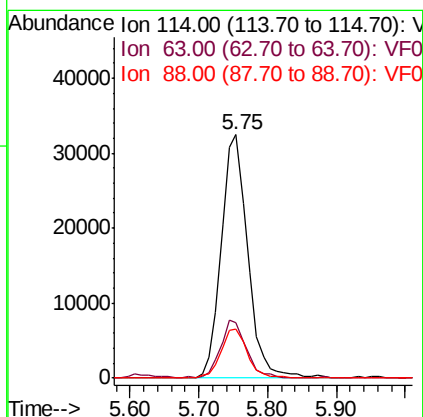
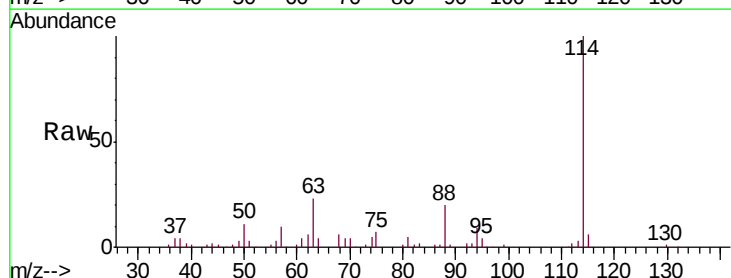
Tgt Ion: 114 Resp: 86943

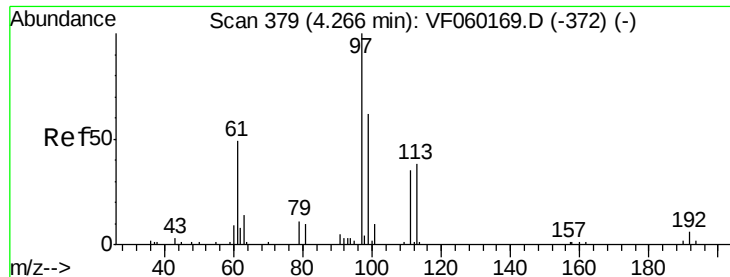
Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.8

88 20.1 0.0 40.2

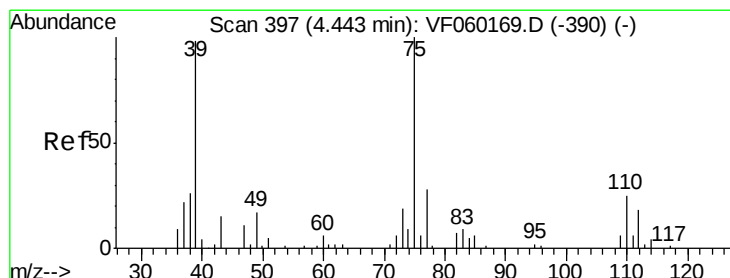
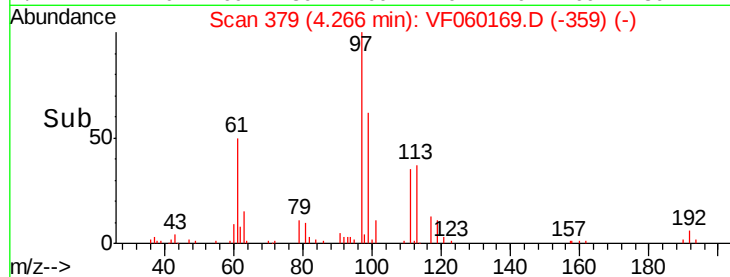
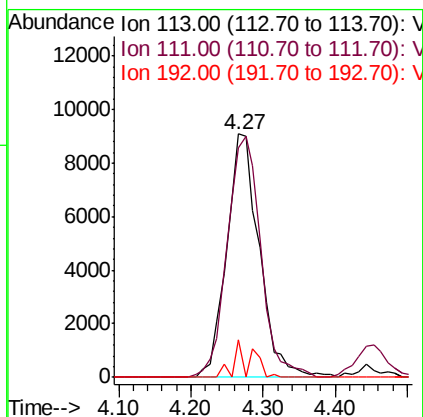
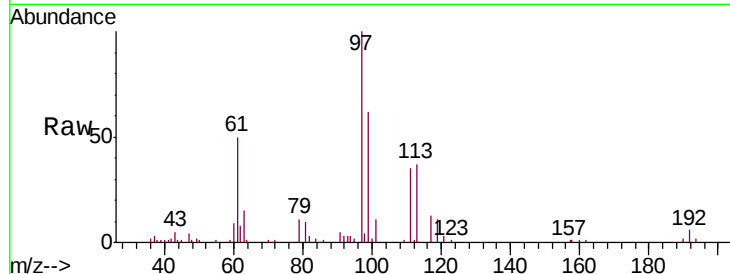




#35
 Dibromofluoromethane
 Concen: 43.174 ug/l
 RT: 4.27 min Scan# 379
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

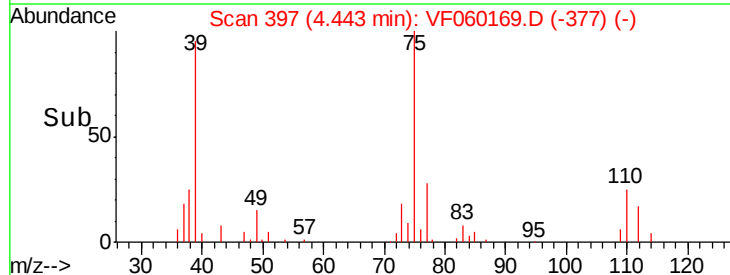
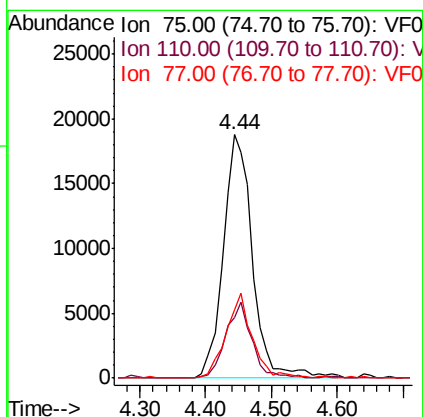
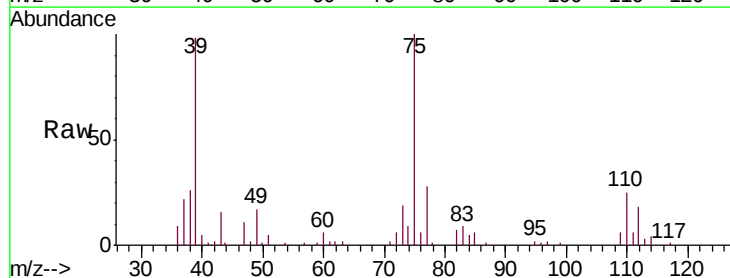
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

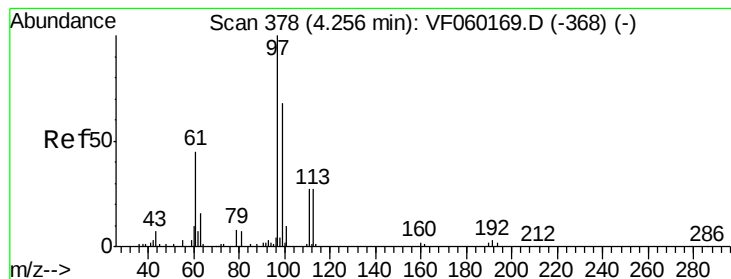
Tgt Ion: 113 Resp: 28733
 Ion Ratio Lower Upper
 113 100
 111 94.4 75.5 113.3
 192 15.6 12.5 18.7



#36
 1,1-Dichloropropene
 Concen: 66.300 ug/l
 RT: 4.44 min Scan# 397
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion: 75 Resp: 58212
 Ion Ratio Lower Upper
 75 100
 110 25.1 12.6 37.6
 77 27.8 22.2 33.4





#37

Ethyl Acetate

Concen: 15.931 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

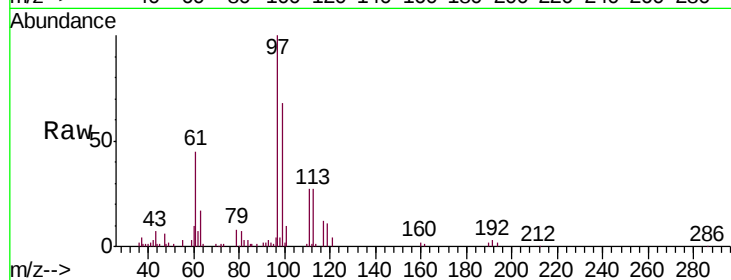
Tgt Ion: 43 Resp: 6883

Ion Ratio Lower Upper

43 100

61 647.0 517.6 776.4

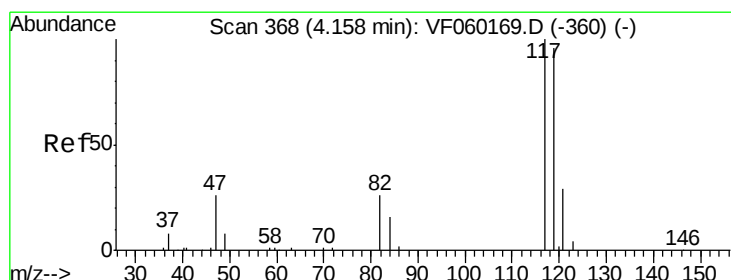
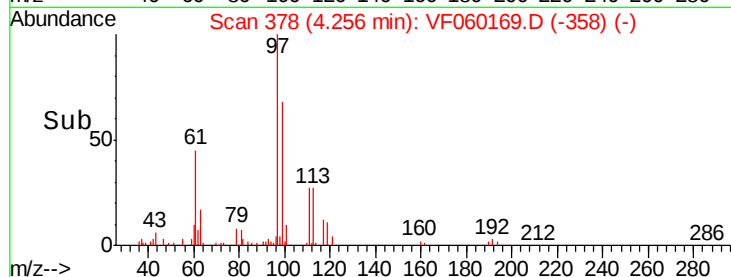
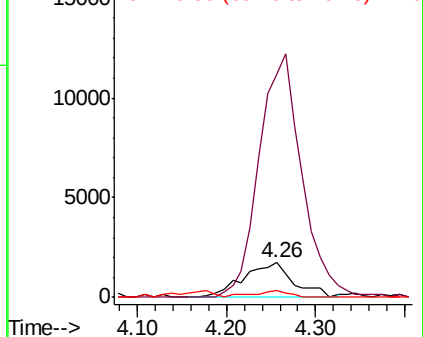
70 19.3 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 80.257 ug/l

RT: 4.16 min Scan# 368

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

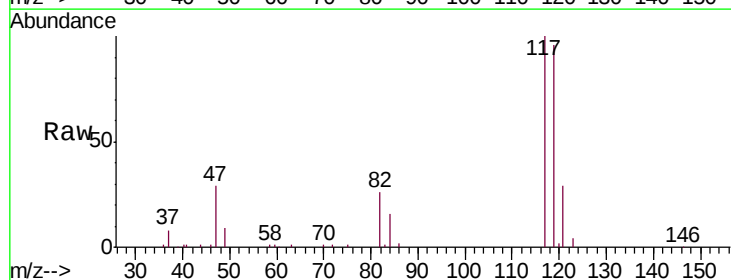
Tgt Ion: 117 Resp: 86652

Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2

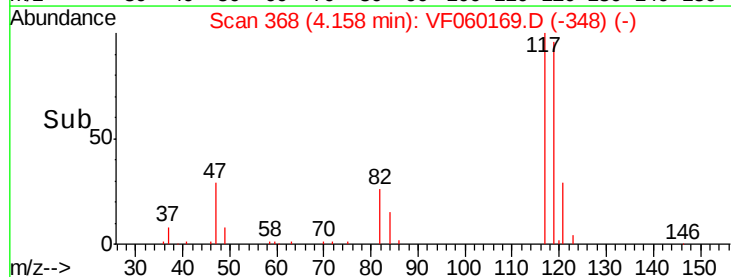
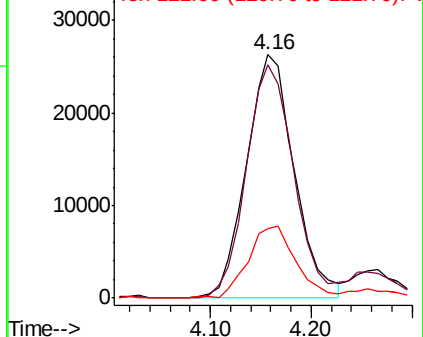
121 28.6 22.9 34.3

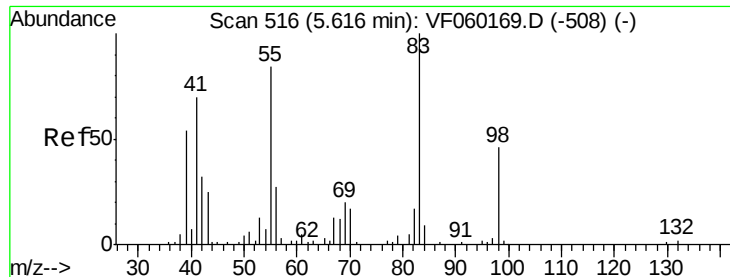


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

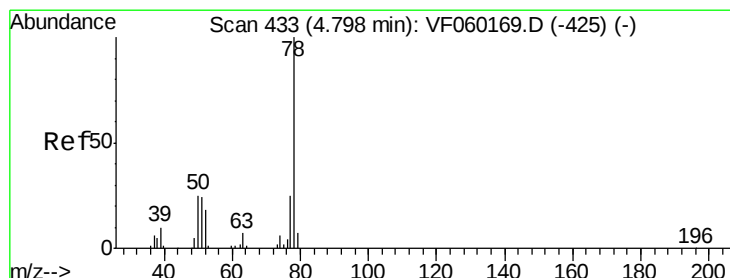
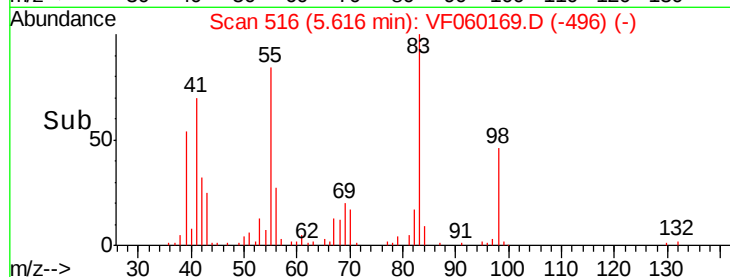
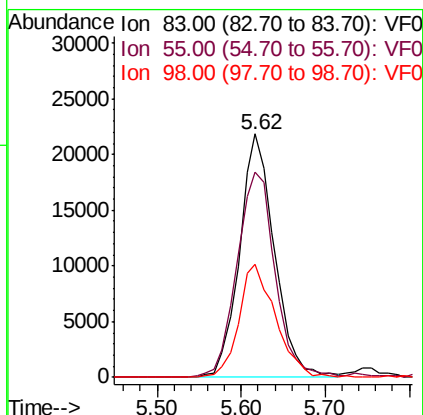
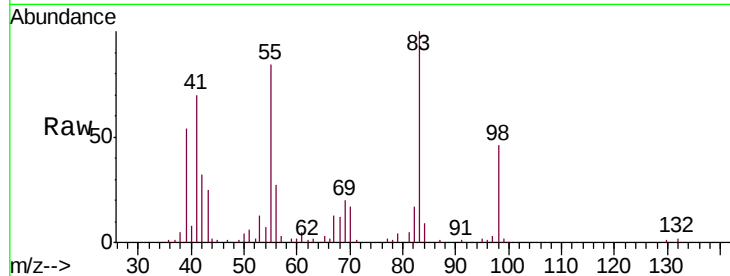




#39
Methylcyclohexane
Concen: 73.849 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

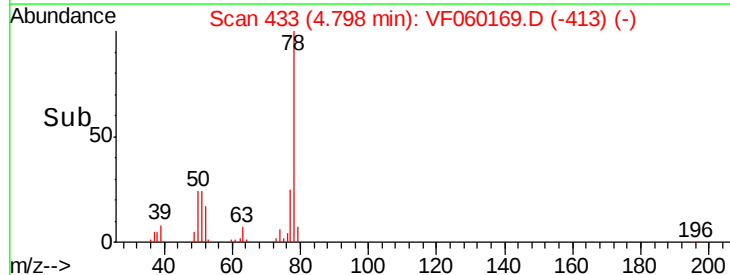
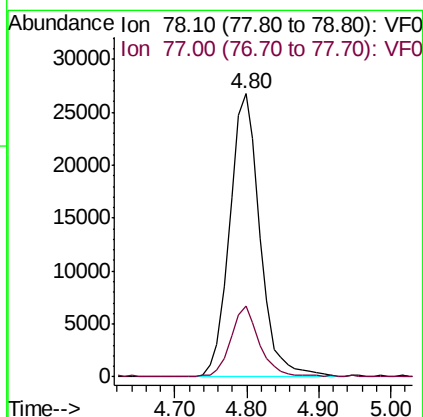
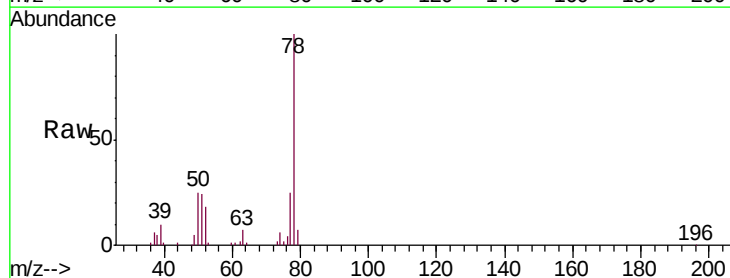
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

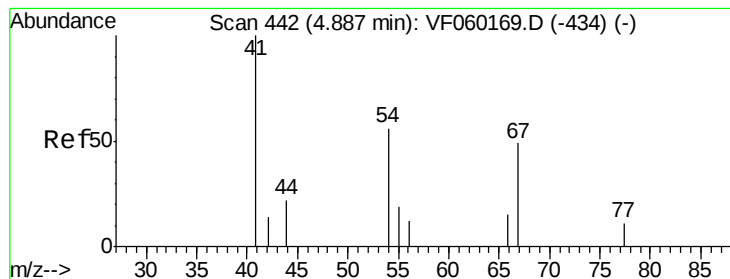
Tgt Ion: 83 Resp: 63308
Ion Ratio Lower Upper
83 100
55 84.3 67.4 101.2
98 46.3 37.0 55.6



#40
Benzene
Concen: 44.477 ug/l
RT: 4.80 min Scan# 433
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 78 Resp: 78460
Ion Ratio Lower Upper
78 100
77 25.2 20.2 30.2





#41

Methacrylonitrile

Concen: 17.336 ug/l

RT: 4.89 min Scan# 442

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 3831

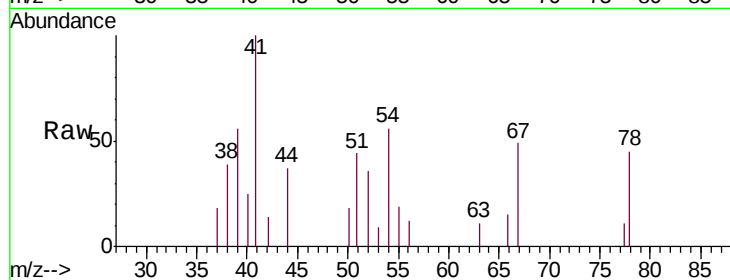
Ion Ratio Lower Upper

41 100

39 56.3 45.0 67.6

67 49.4 39.5 59.3

52 35.6 28.5 42.7

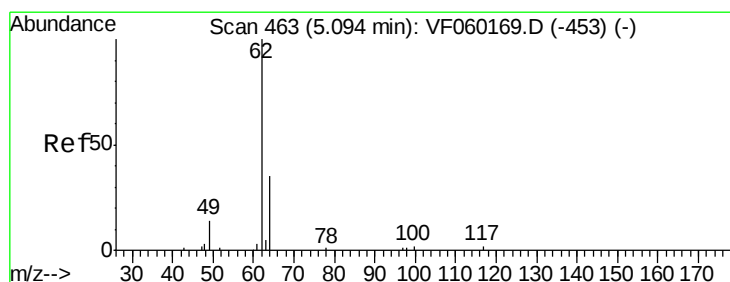
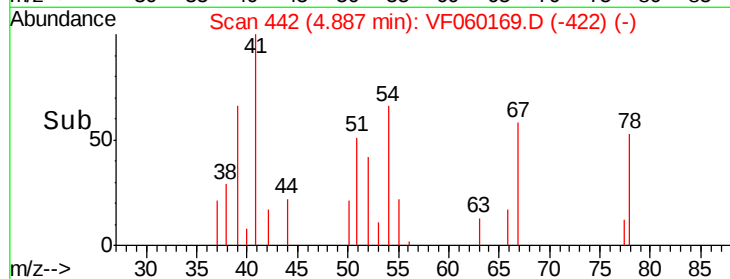
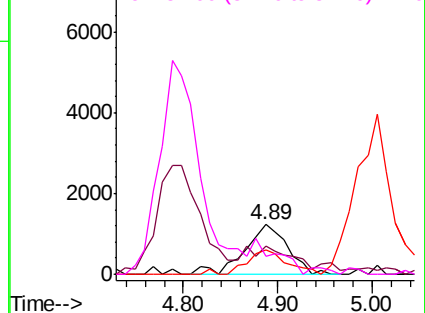


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#42

1,2-Dichloroethane

Concen: 30.352 ug/l

RT: 5.09 min Scan# 463

Delta R.T. 0.00 min

Lab File: VF060169.D

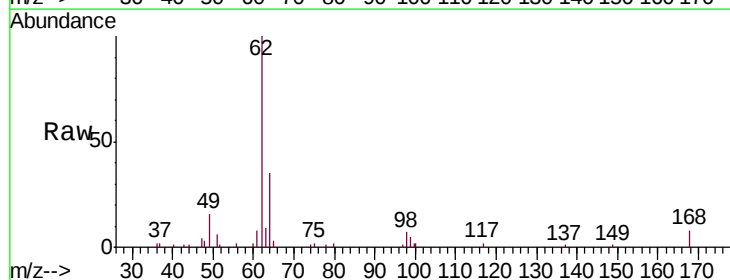
Acq: 29 Aug 2018 1:26

Tgt Ion: 62 Resp: 27110

Ion Ratio Lower Upper

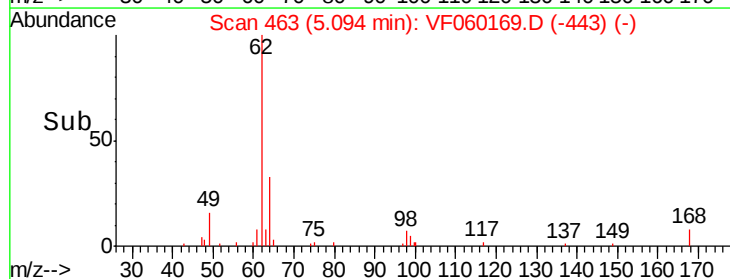
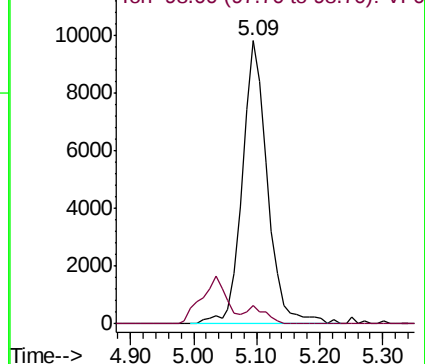
62 100

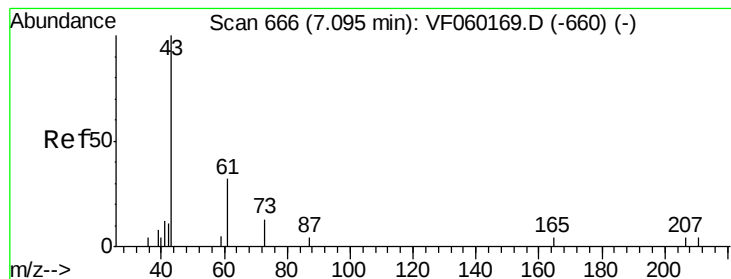
98 6.6 0.0 13.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 14.968 ug/l

RT: 7.09 min Scan# 666

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

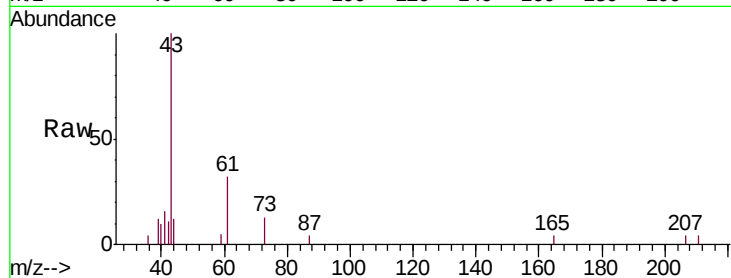
Tgt Ion: 43 Resp: 8059

Ion Ratio Lower Upper

43 100

61 31.6 25.3 37.9

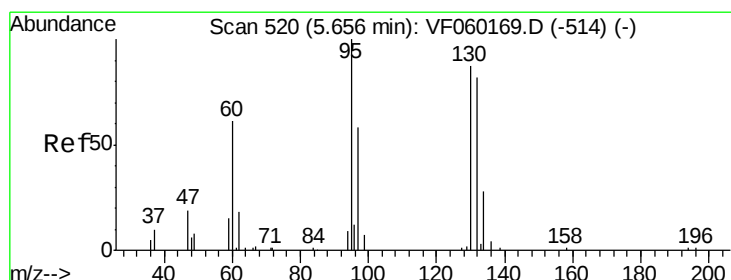
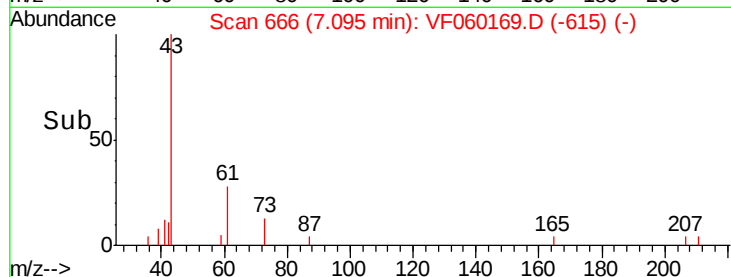
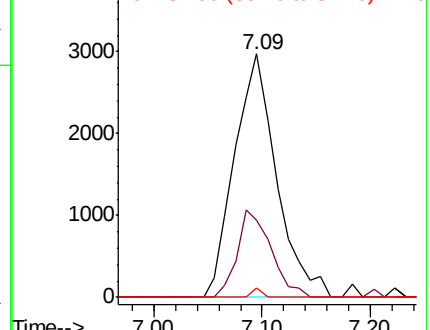
87 3.8 3.0 4.6



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



#44

Trichloroethene

Concen: 57.031 ug/l

RT: 5.66 min Scan# 520

Delta R.T. 0.00 min

Lab File: VF060169.D

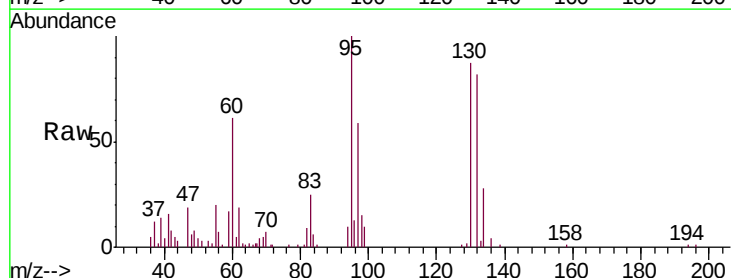
Acq: 29 Aug 2018 1:26

Tgt Ion: 130 Resp: 34954

Ion Ratio Lower Upper

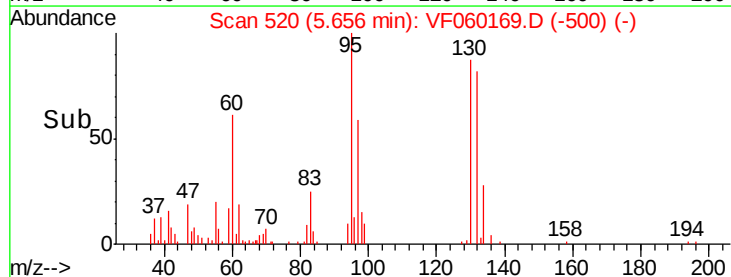
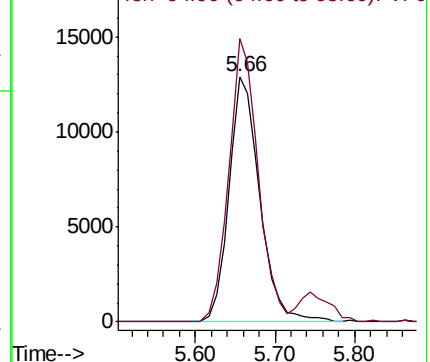
130 100

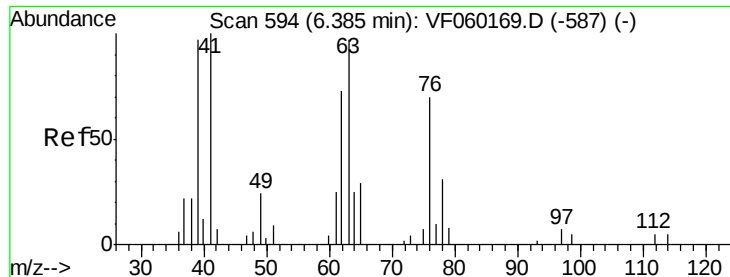
95 115.4 0.0 230.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 35.640 ug/l

RT: 6.39 min Scan# 594

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

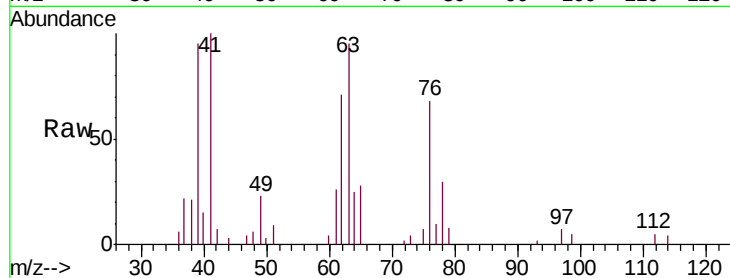
VSTDICCC050

Tgt Ion: 63 Resp: 16967

Ion Ratio Lower Upper

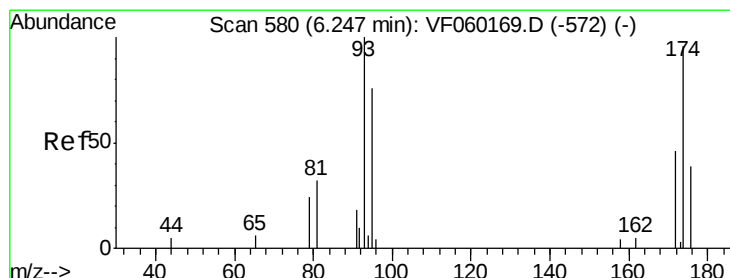
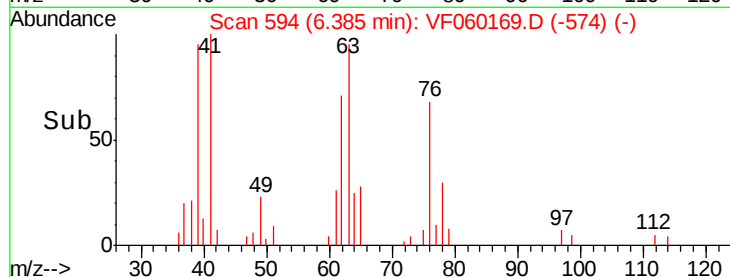
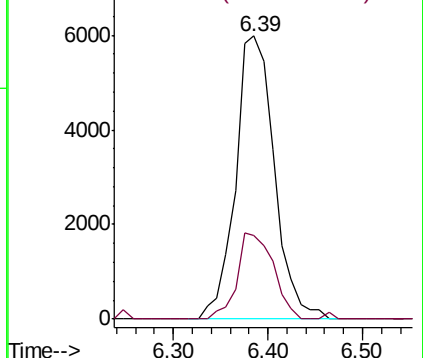
63 100

65 29.5 23.6 35.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 25.875 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

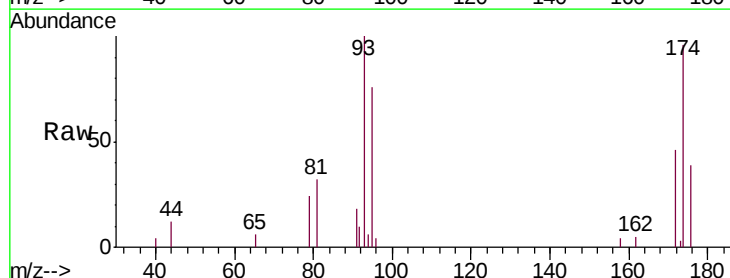
Tgt Ion: 93 Resp: 9326

Ion Ratio Lower Upper

93 100

95 76.0 60.8 91.2

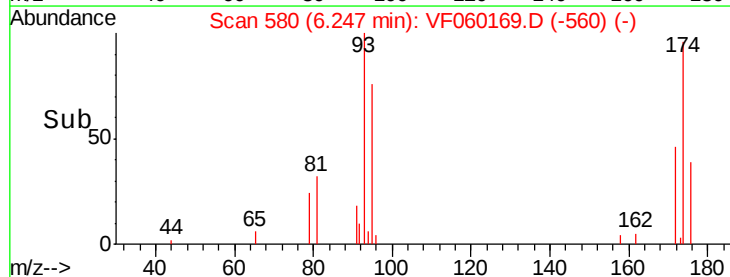
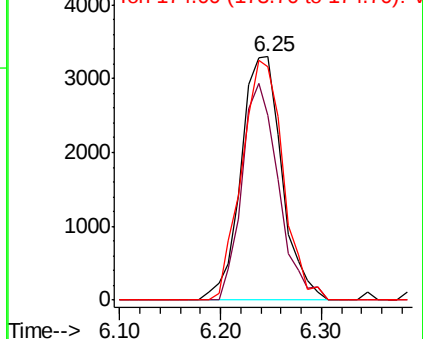
174 96.0 76.8 115.2

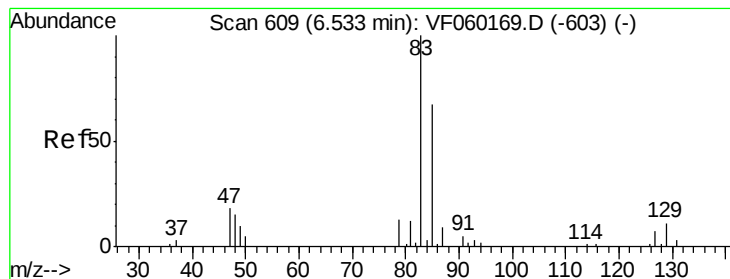


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 36.103 ug/l

RT: 6.53 min Scan# 609

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

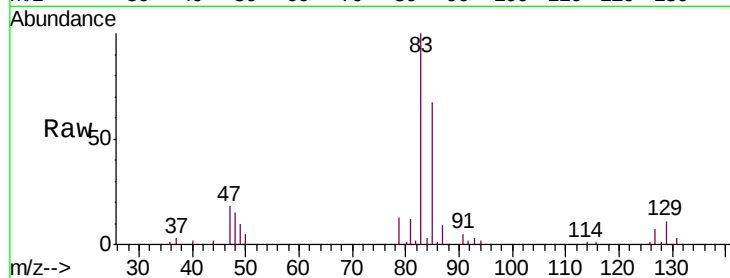
Tgt Ion: 83 Resp: 32726

Ion Ratio Lower Upper

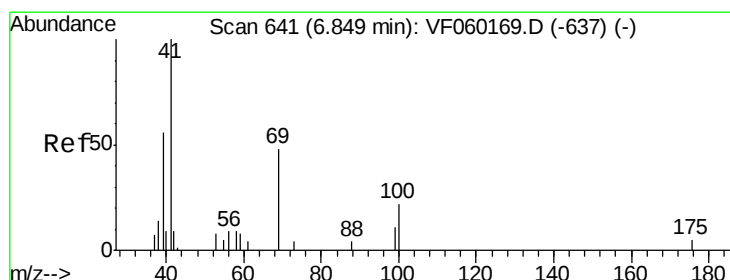
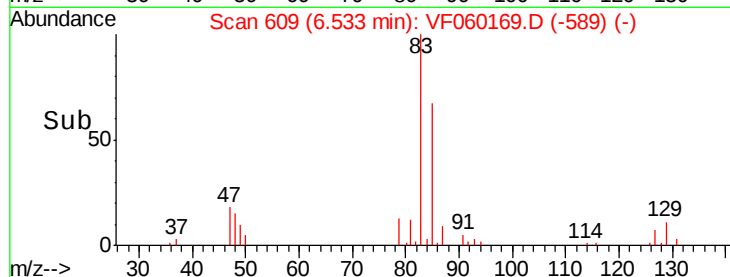
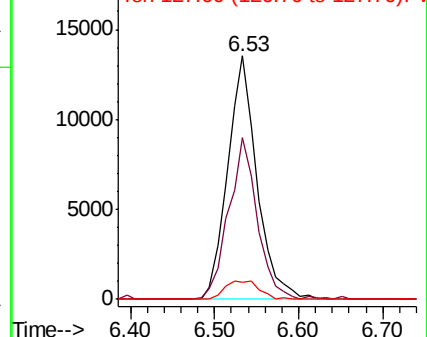
83 100

85 66.6 53.3 79.9

127 7.1 5.7 8.5



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



#48

Methyl methacrylate

Concen: 18.079 ug/l

RT: 6.85 min Scan# 641

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

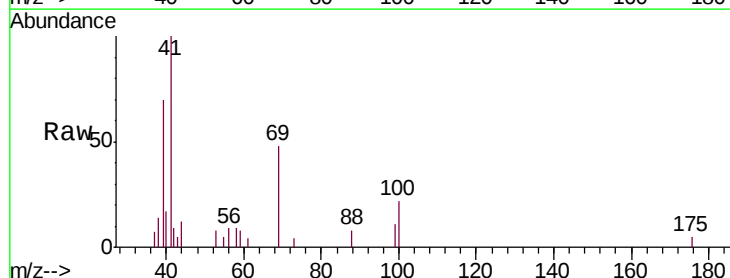
Tgt Ion: 41 Resp: 6499

Ion Ratio Lower Upper

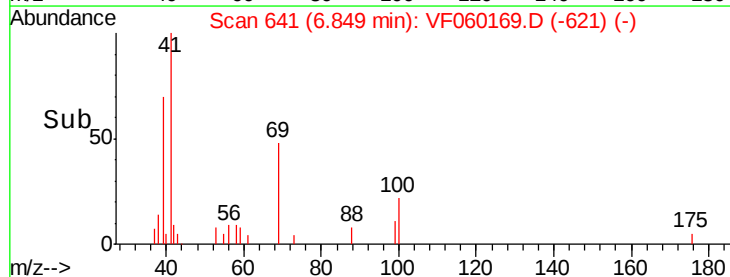
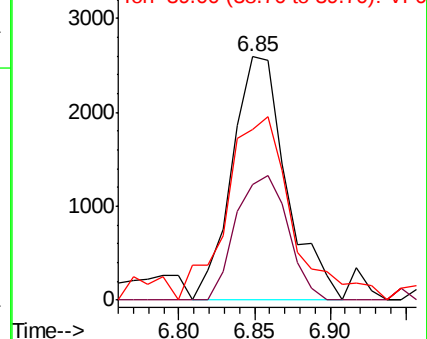
41 100

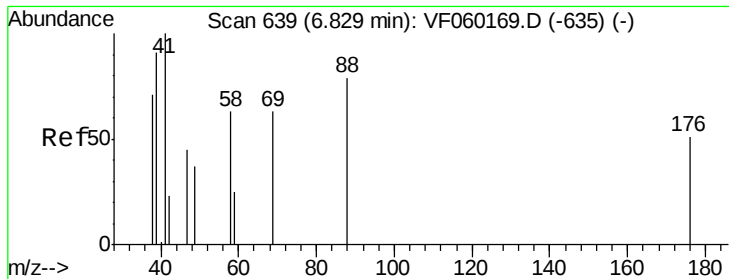
69 47.7 38.2 57.2

39 70.2 56.2 84.2



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: 254.485 ug/l

RT: 6.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

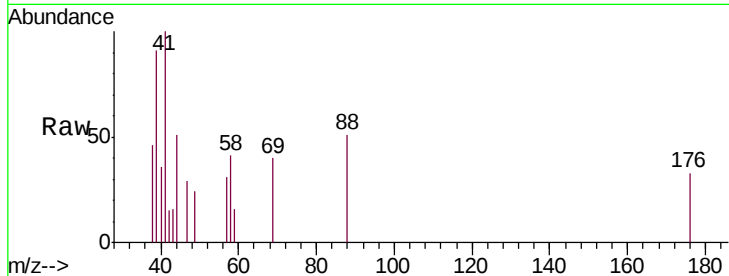
Tgt Ion: 88 Resp: 866

Ion Ratio Lower Upper

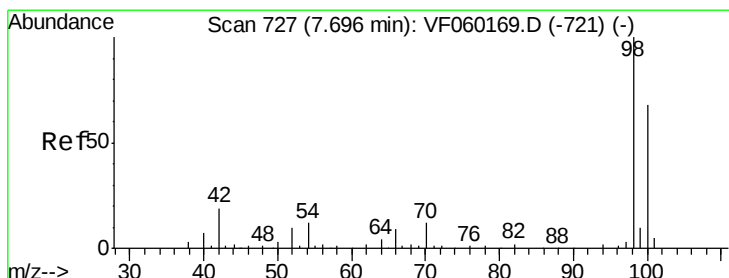
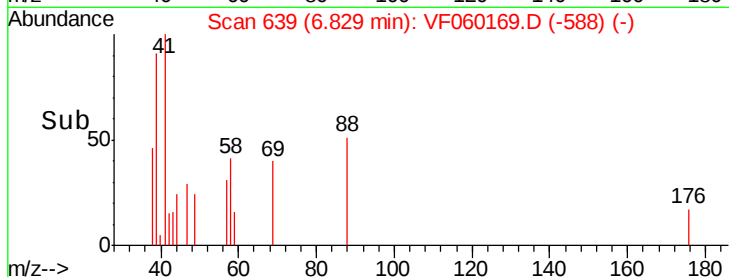
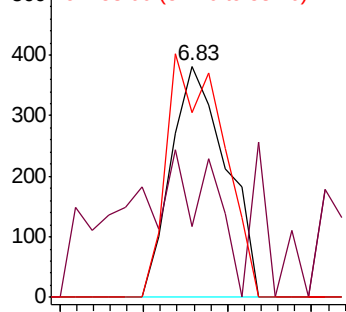
88 100

43 30.6 24.5 36.7

58 79.8 63.8 95.8



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: 49.230 ug/l

RT: 7.70 min Scan# 727

Delta R.T. 0.00 min

Lab File: VF060169.D

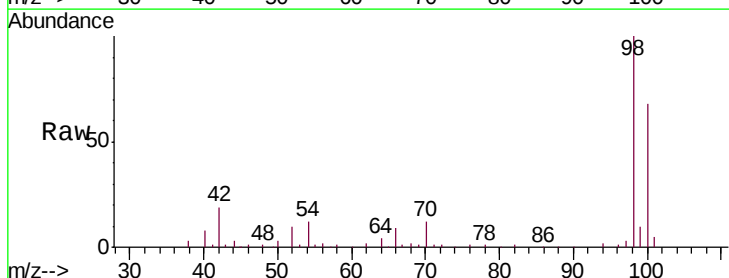
Acq: 29 Aug 2018 1:26

Tgt Ion: 98 Resp: 96070

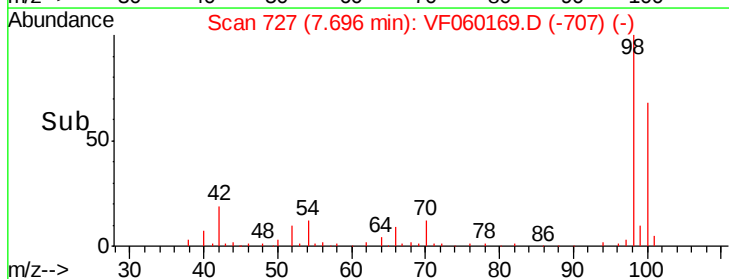
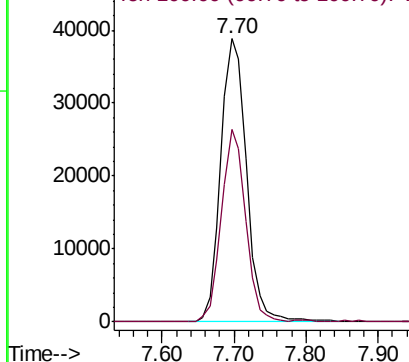
Ion Ratio Lower Upper

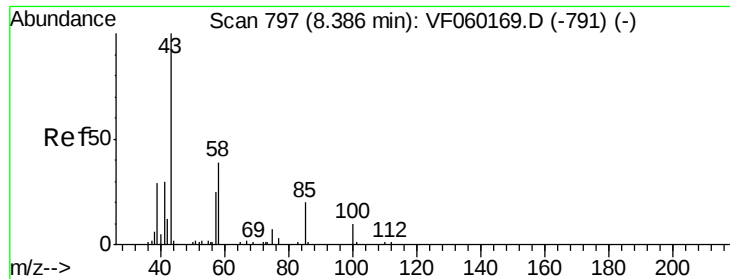
98 100

100 68.1 54.5 81.7



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

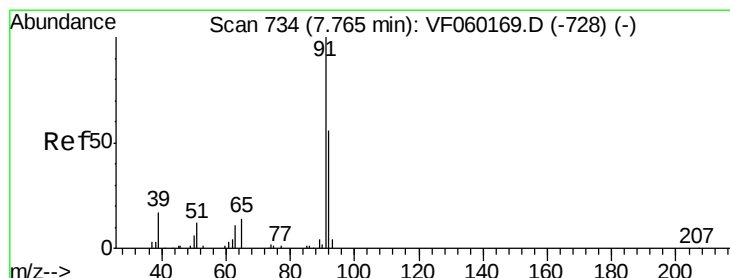
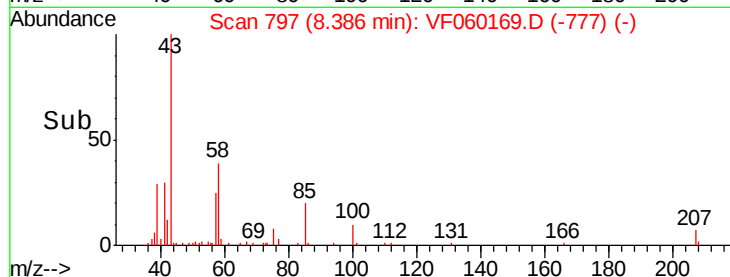
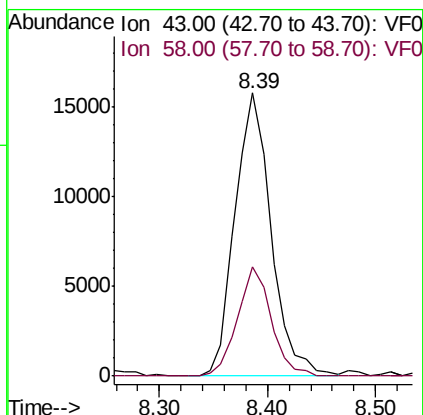
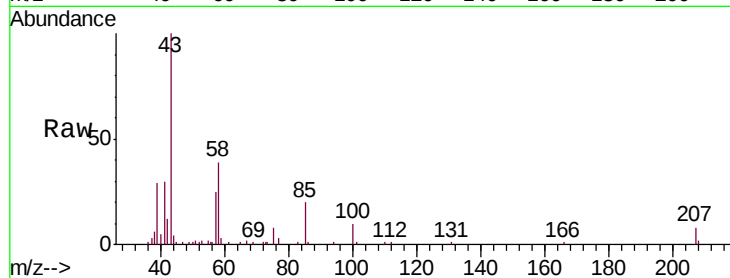




#51
 4-Methyl-2-Pentanone
 Concen: 78.572 ug/l
 RT: 8.39 min Scan# 797
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

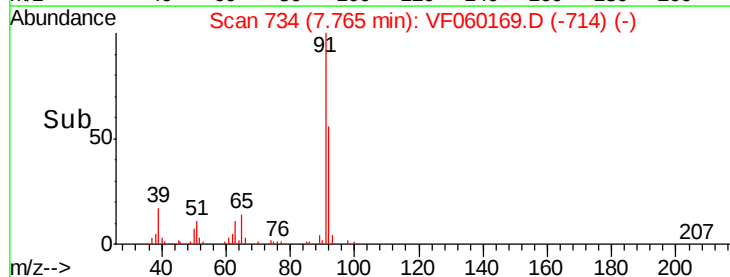
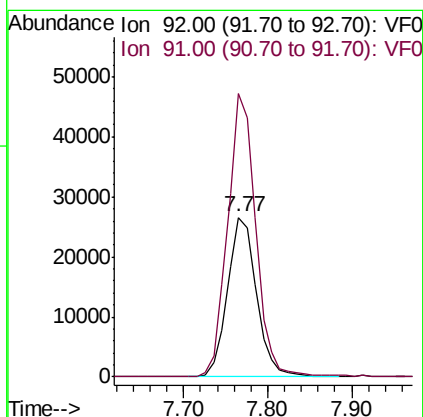
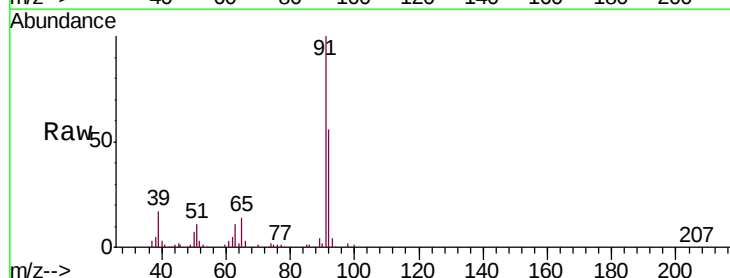
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

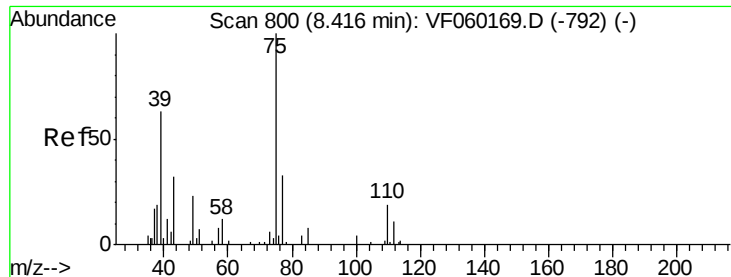
Tgt Ion: 43 Resp: 36826
 Ion Ratio Lower Upper
 43 100
 58 38.8 31.0 46.6



#52
 Toluene
 Concen: 48.659 ug/l
 RT: 7.77 min Scan# 734
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion: 92 Resp: 63810
 Ion Ratio Lower Upper
 92 100
 91 177.4 141.9 212.9

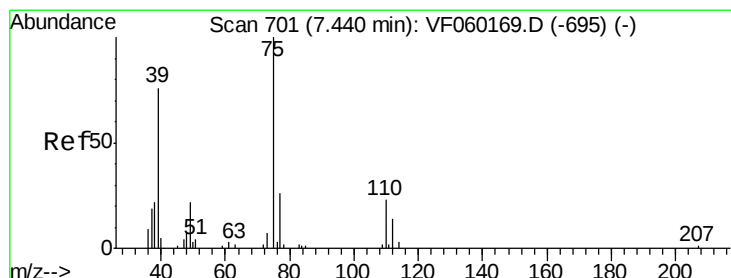
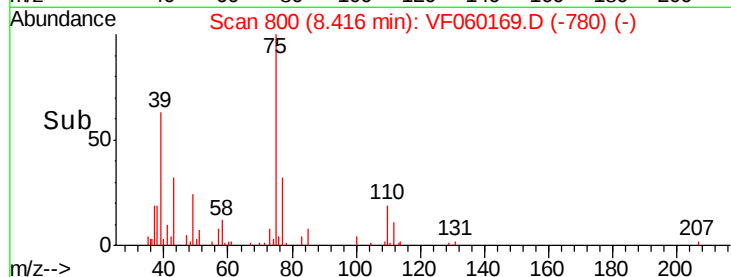
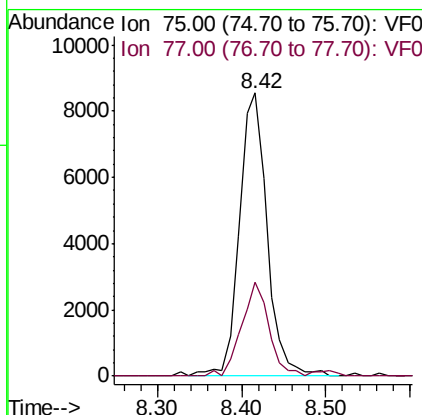
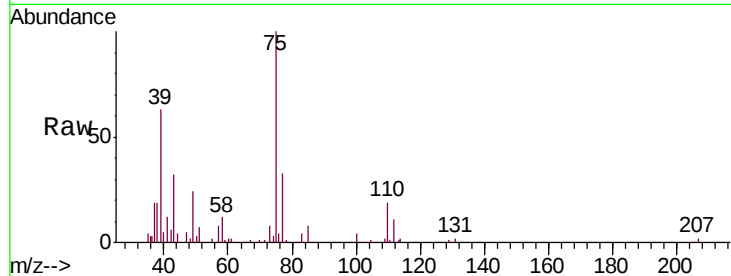




#53
t-1,3-Dichloropropene
Concen: 24.801 ug/l
RT: 8.42 min Scan# 800
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

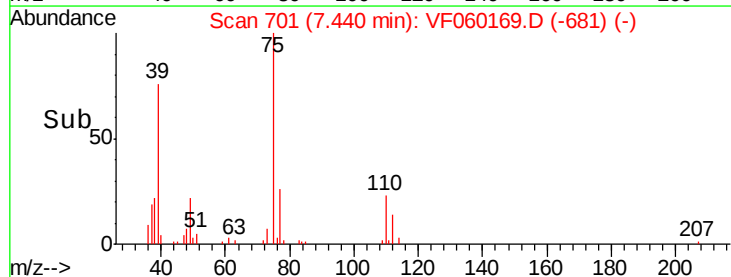
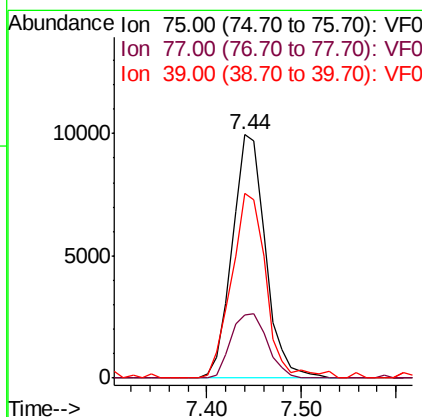
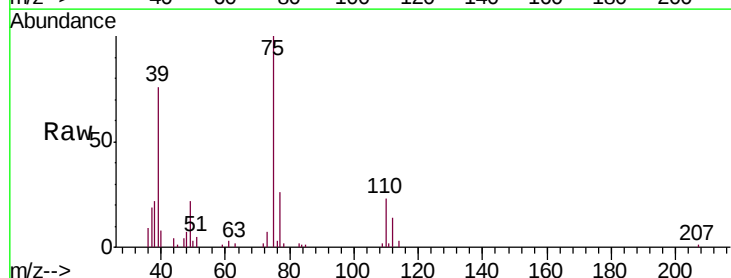
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

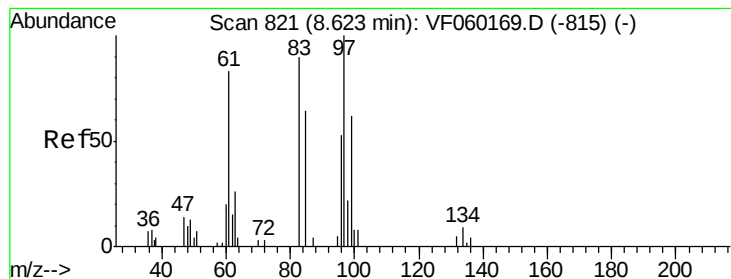
Tgt Ion: 75 Resp: 19619
Ion Ratio Lower Upper
75 100
77 33.0 26.4 39.6



#54
cis-1,3-Dichloropropene
Concen: 27.474 ug/l
RT: 7.44 min Scan# 701
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 75 Resp: 24199
Ion Ratio Lower Upper
75 100
77 25.9 20.7 31.1
39 76.1 60.9 91.3





#55

1,1,2-Trichloroethane

Concen: 22.420 ug/l

RT: 8.62 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 9691

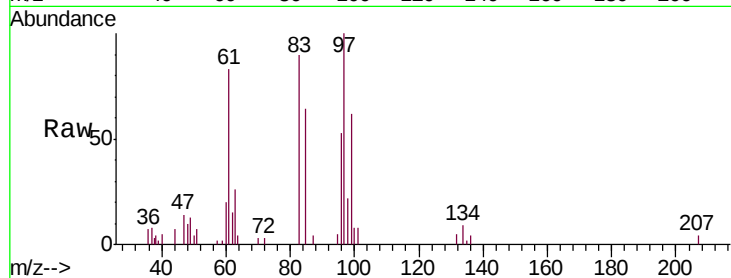
Ion Ratio Lower Upper

97 100

83 90.0 72.0 108.0

85 63.7 51.0 76.4

99 61.9 49.5 74.3

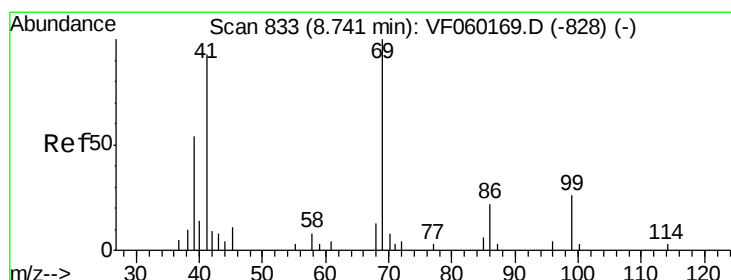
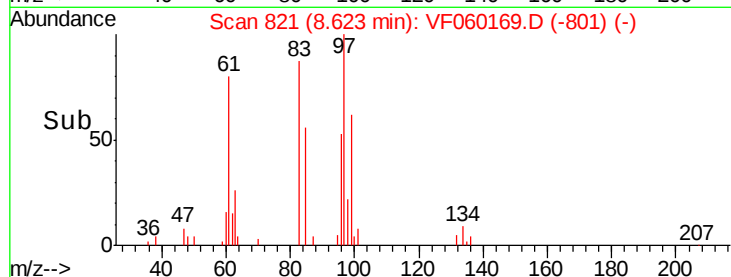
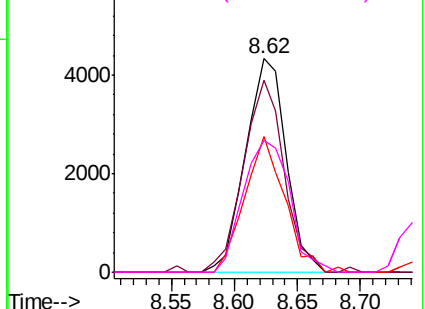


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 17.882 ug/l

RT: 8.74 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

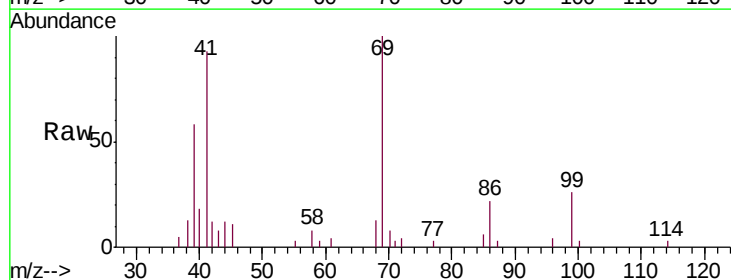
Tgt Ion: 69 Resp: 9150

Ion Ratio Lower Upper

69 100

41 93.2 74.6 111.8

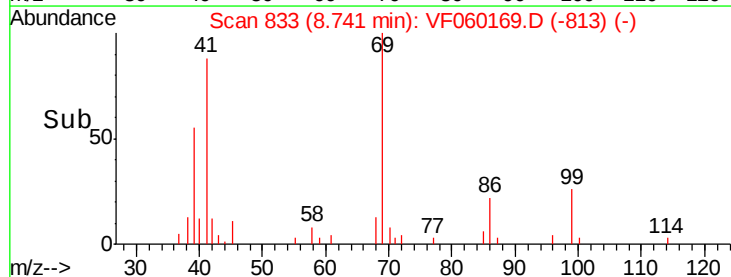
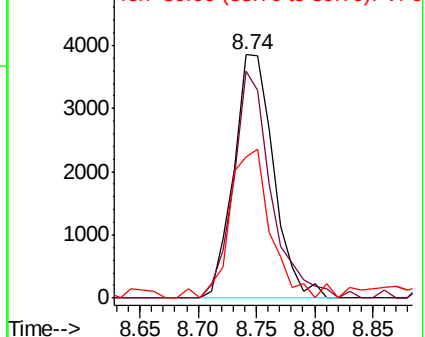
39 57.8 46.2 69.4

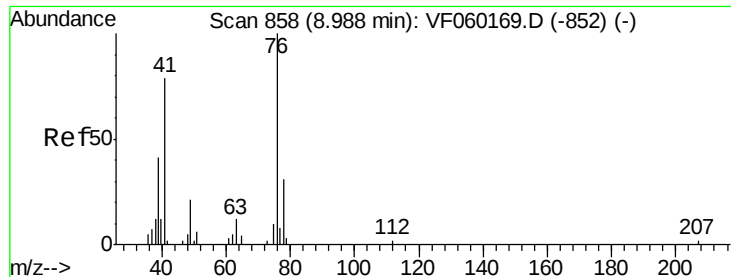


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 23.499 ug/l

RT: 8.99 min Scan# 858

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

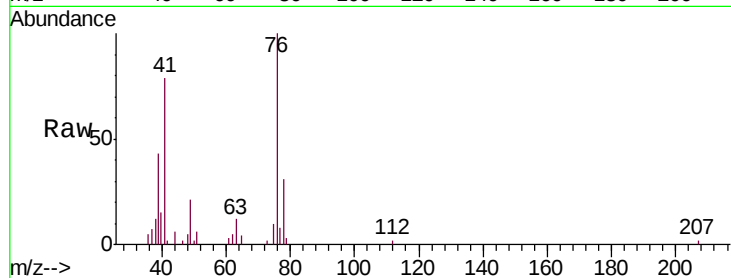
VSTDICCC050

Tgt Ion: 76 Resp: 17850

Ion Ratio Lower Upper

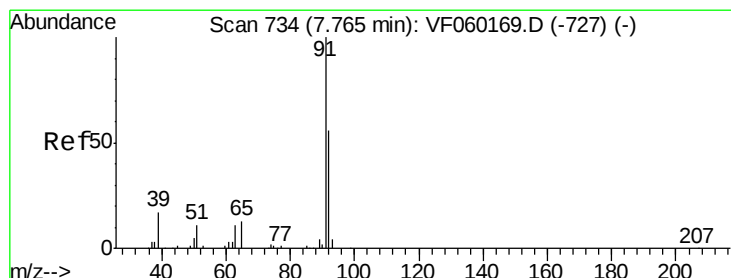
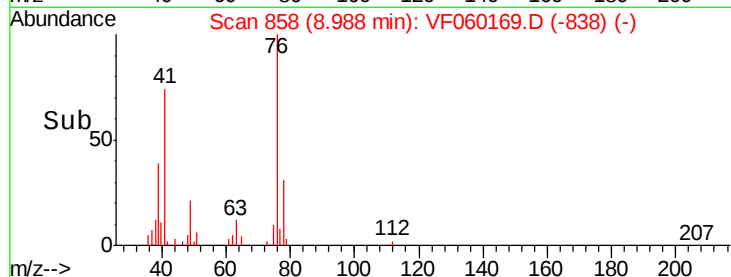
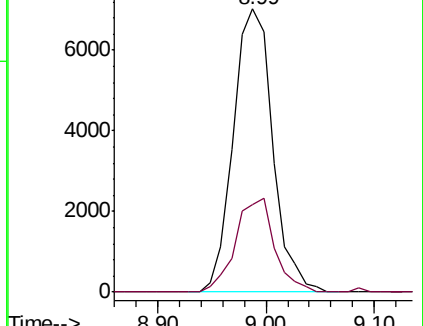
76 100

78 30.8 24.6 37.0



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 282.883 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF060169.D

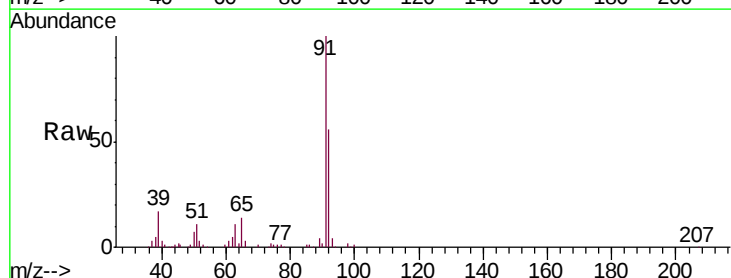
Acq: 29 Aug 2018 1:26

Tgt Ion: 63 Resp: 13584

Ion Ratio Lower Upper

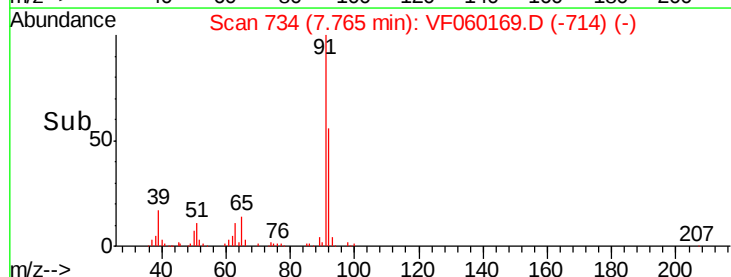
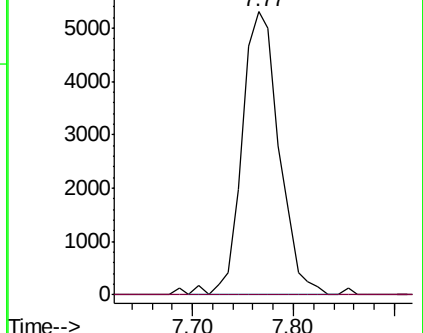
63 100

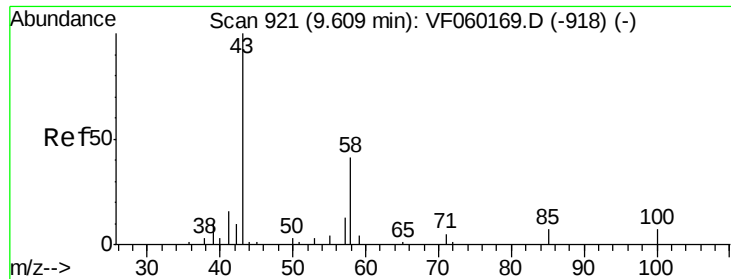
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

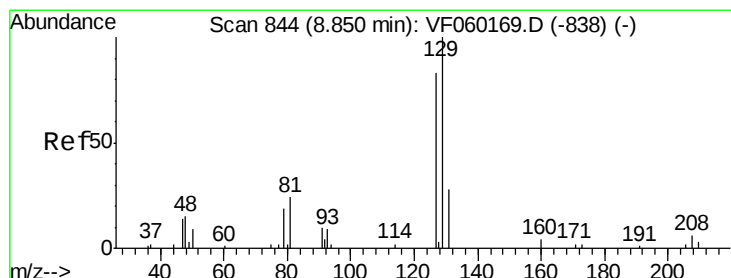
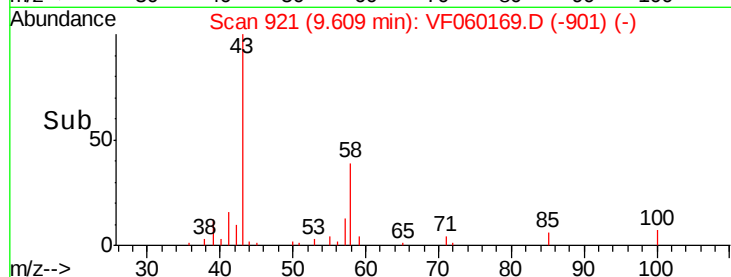
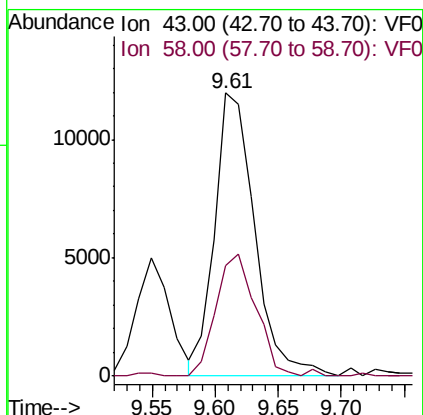
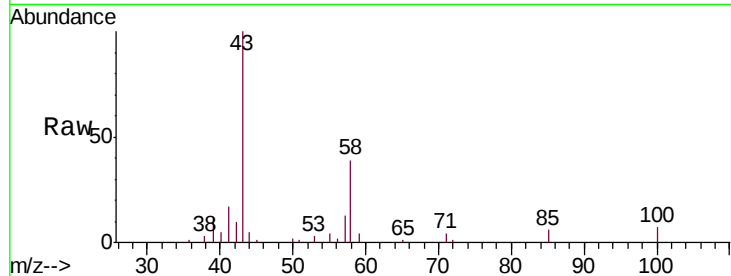




#59
2-Hexanone
Concen: 70.031 ug/l
RT: 9.61 min Scan# 921
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

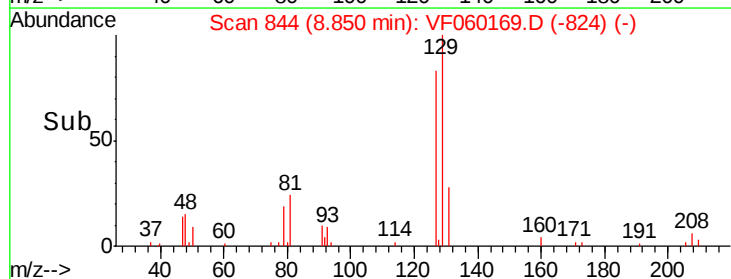
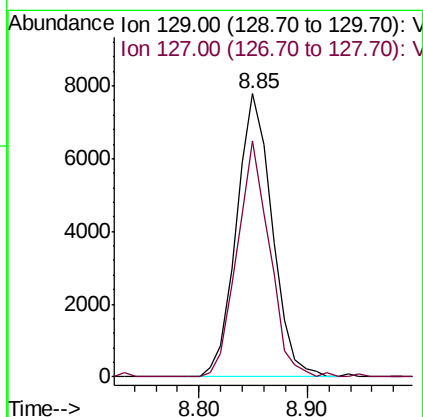
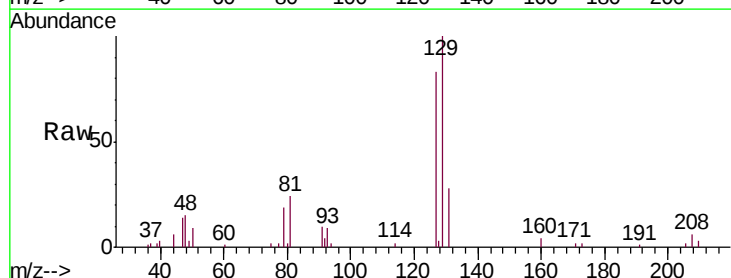
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

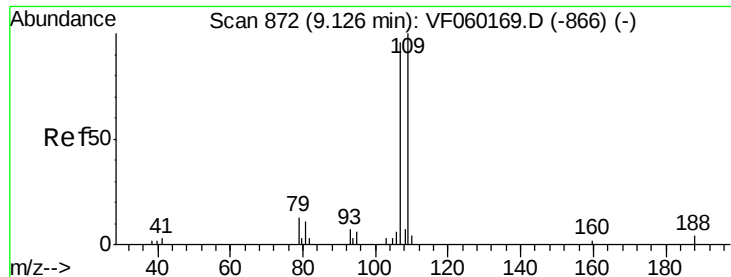
Tgt Ion: 43 Resp: 26391
Ion Ratio Lower Upper
43 100
58 38.9 19.4 58.4



#60
Dibromochloromethane
Concen: 27.461 ug/l
RT: 8.85 min Scan# 844
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion: 129 Resp: 17879
Ion Ratio Lower Upper
129 100
127 86.4 43.2 129.6





#61

1,2-Dibromoethane

Concen: 20.388 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

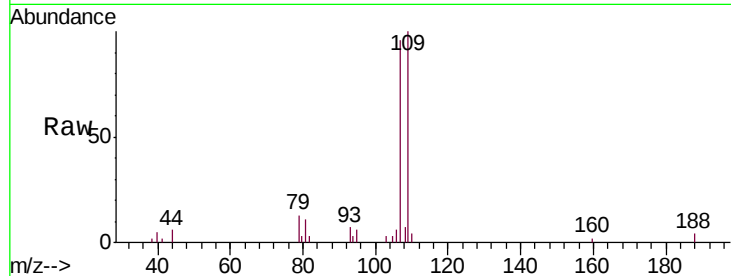
VSTDICCC050

Tgt Ion: 107 Resp: 10323

Ion Ratio Lower Upper

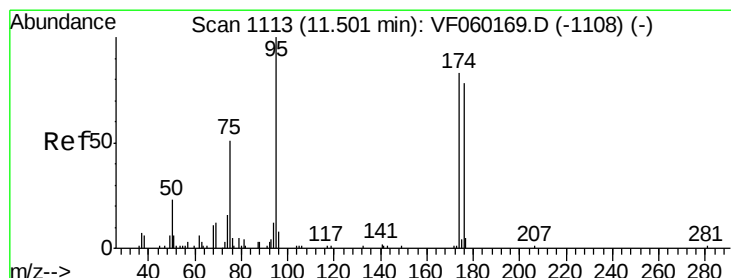
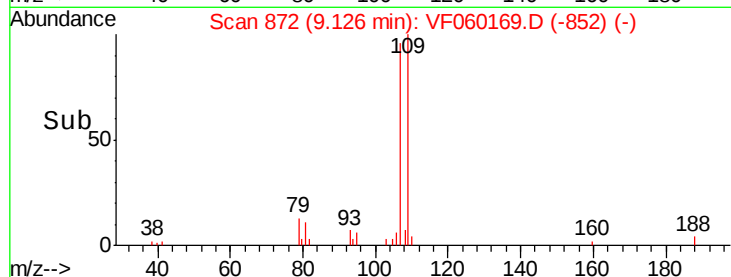
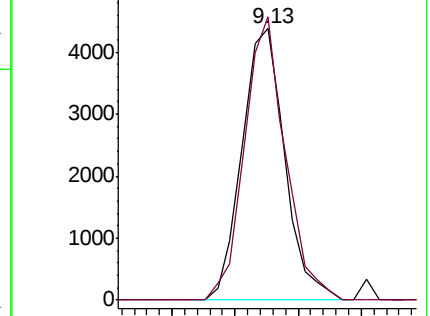
107 100

109 104.2 83.4 125.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 34.485 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

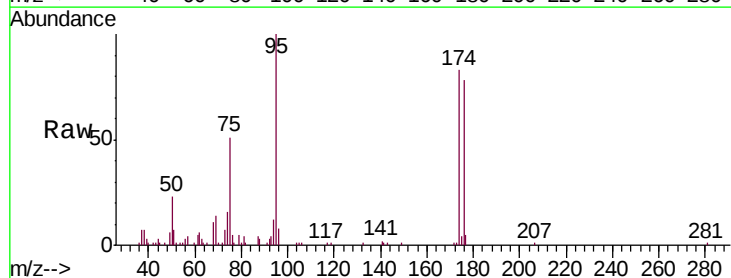
Tgt Ion: 95 Resp: 33644

Ion Ratio Lower Upper

95 100

174 82.6 0.0 165.2

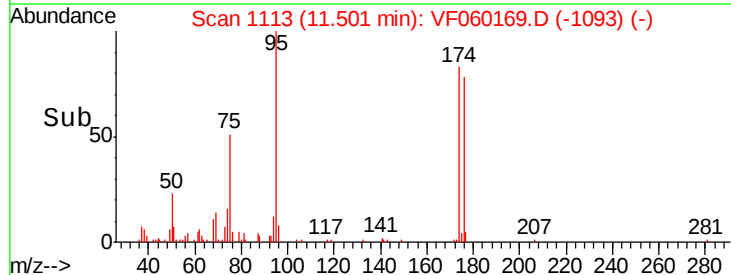
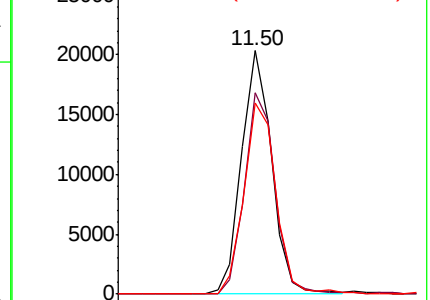
176 78.3 0.0 156.6

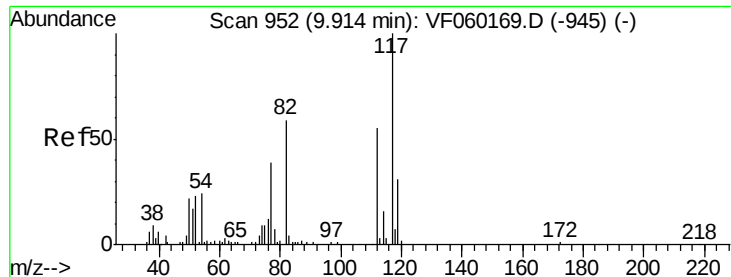


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

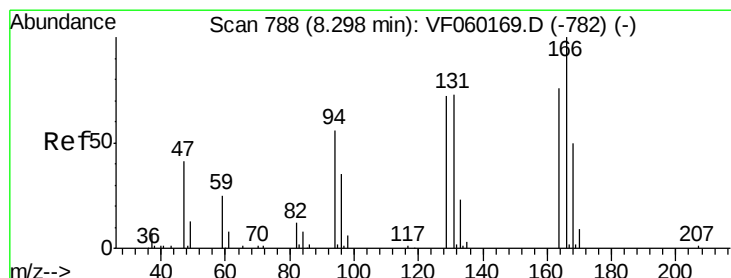
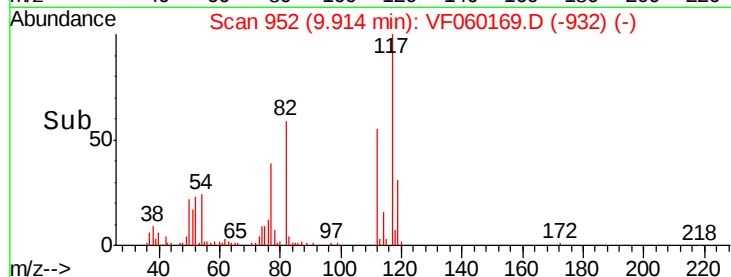
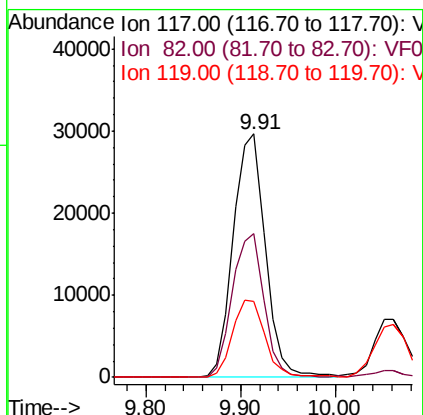
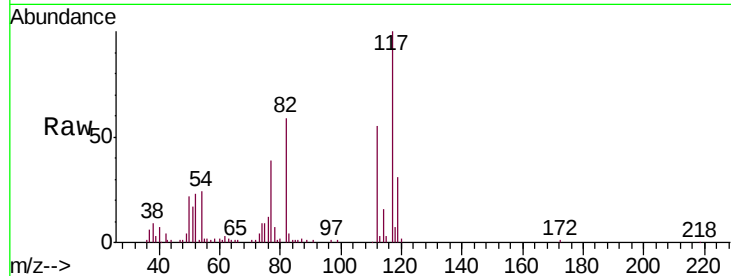




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

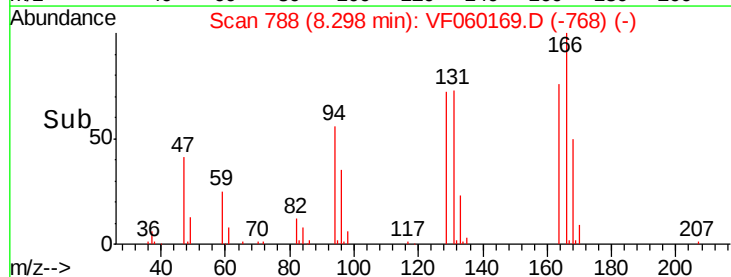
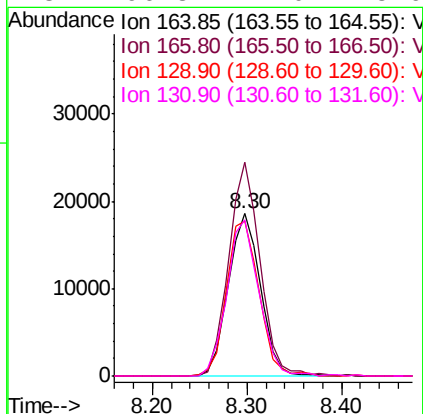
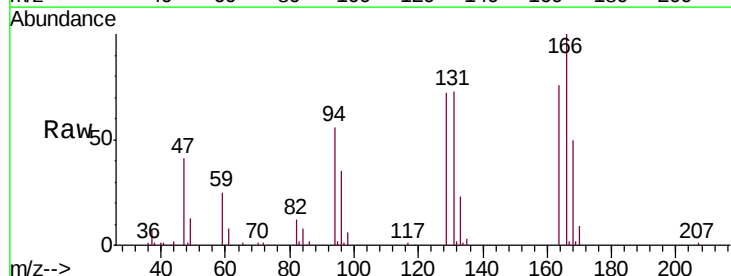
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

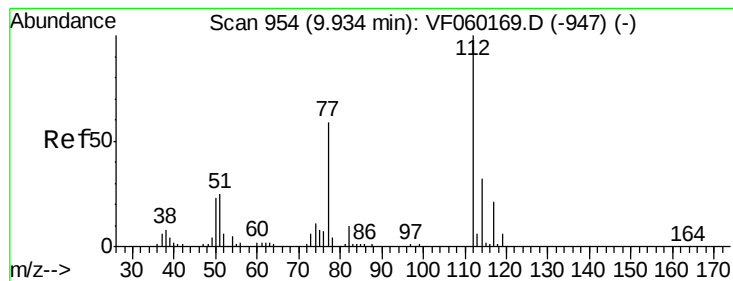
Tgt Ion:117 Resp: 69846
Ion Ratio Lower Upper
117 100
82 59.0 47.2 70.8
119 31.2 25.0 37.4



#64
Tetrachloroethene
Concen: 80.771 ug/l
RT: 8.30 min Scan# 788
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion:164 Resp: 43559
Ion Ratio Lower Upper
164 100
166 131.5 105.2 157.8
129 95.2 76.2 114.2
131 96.3 77.0 115.6





#65

Chlorobenzene

Concen: 51.332 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

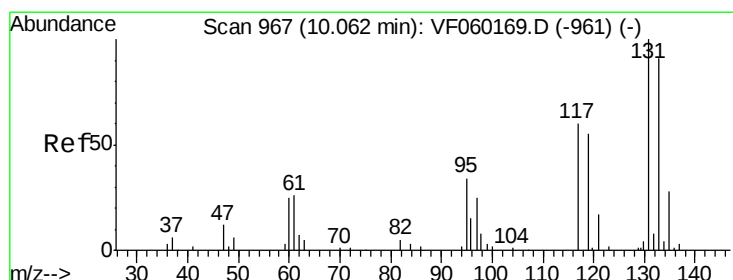
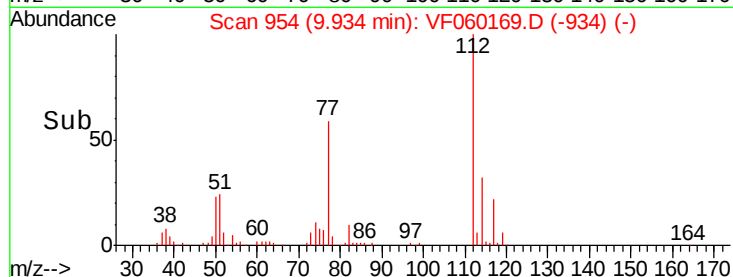
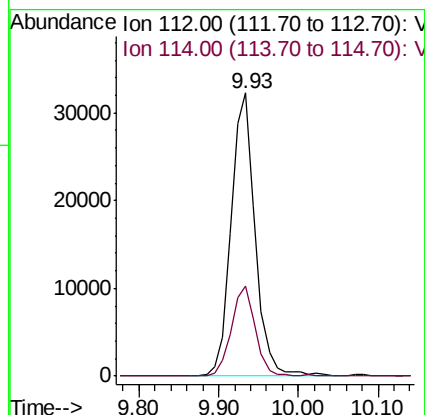
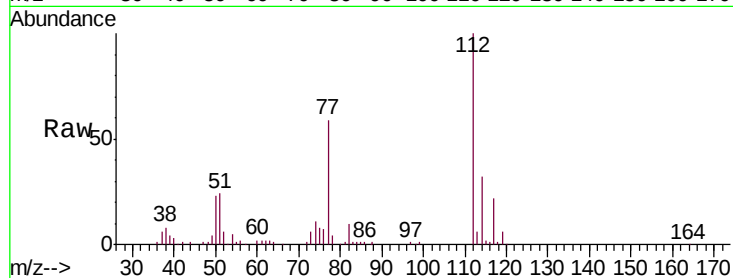
VSTDICCC050

Tgt Ion:112 Resp: 68544

Ion Ratio Lower Upper

112 100

114 31.7 25.4 38.0



#66

1,1,1,2-Tetrachloroethane

Concen: 48.581 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

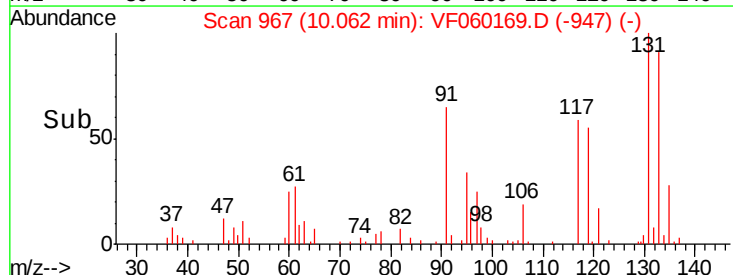
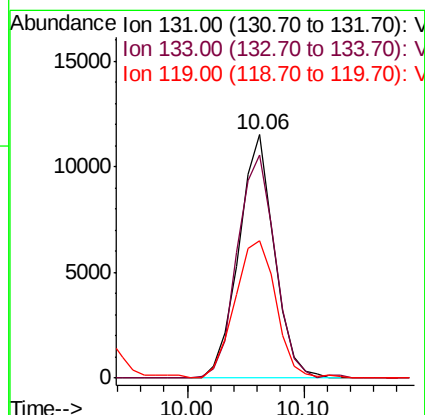
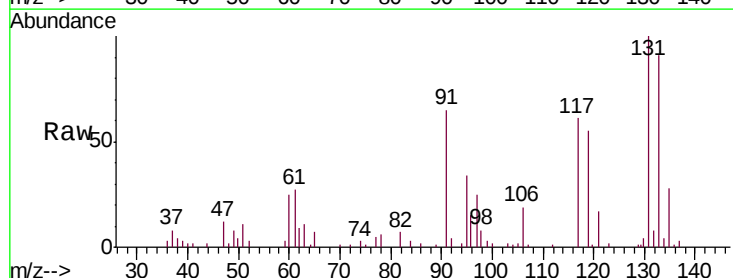
Tgt Ion:131 Resp: 24335

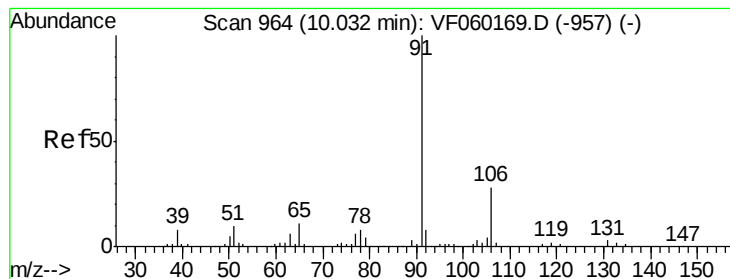
Ion Ratio Lower Upper

131 100

133 91.4 45.7 137.1

119 56.2 28.1 84.3





#67

Ethyl Benzene

Concen: 68.057 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

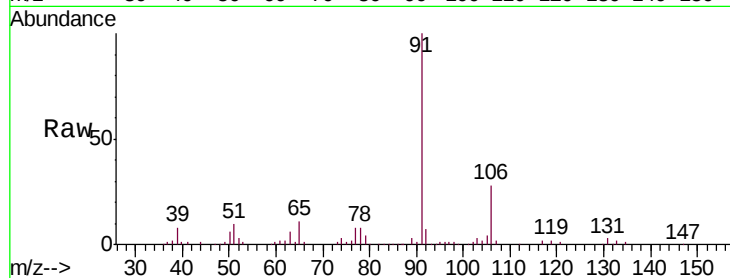
VSTDICCC050

Tgt Ion: 91 Resp: 168781

Ion Ratio Lower Upper

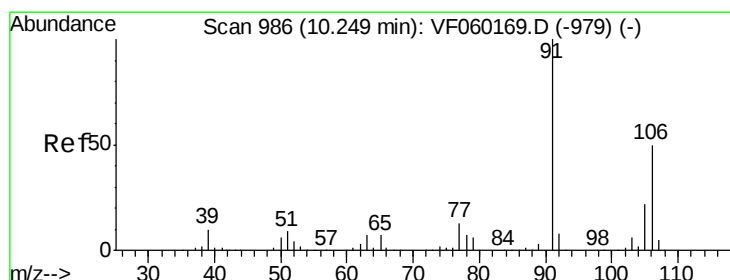
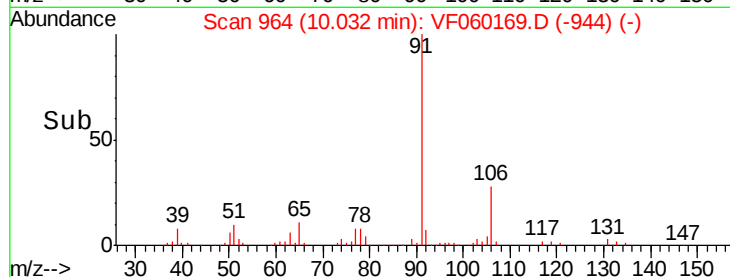
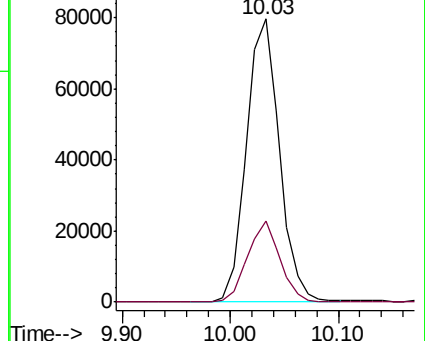
91 100

106 28.5 22.8 34.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 143.195 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.00 min

Lab File: VF060169.D

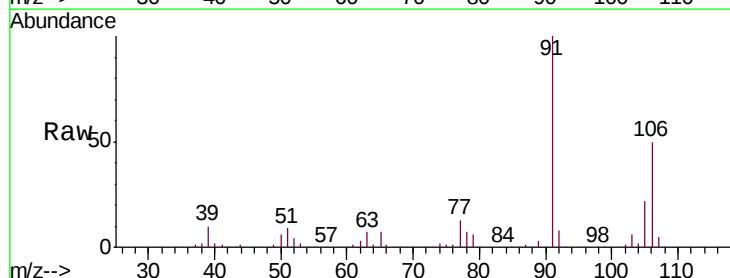
Acq: 29 Aug 2018 1:26

Tgt Ion: 106 Resp: 132799

Ion Ratio Lower Upper

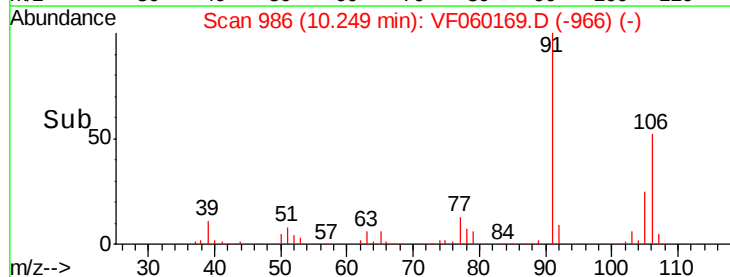
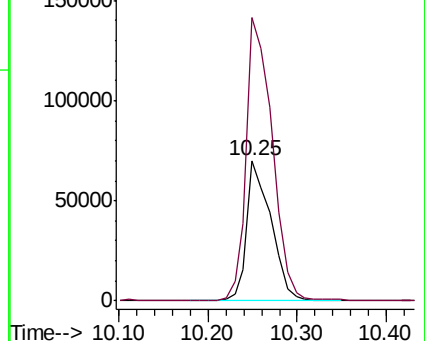
106 100

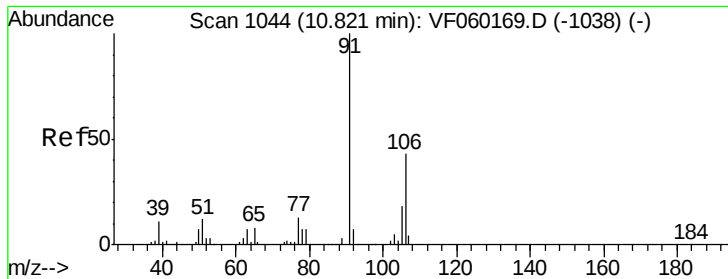
91 201.6 161.3 241.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

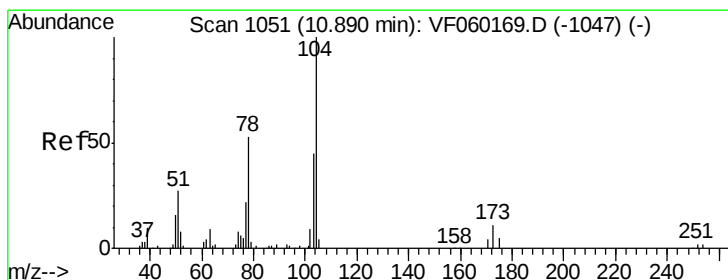
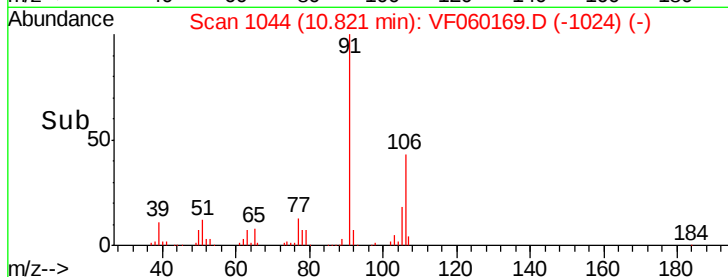
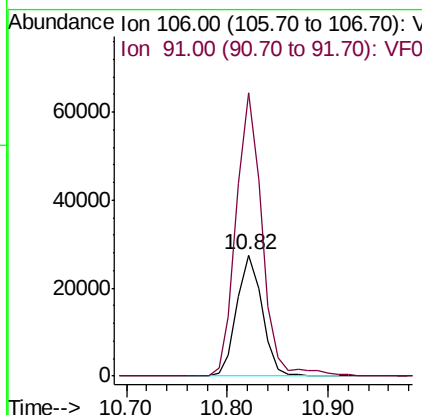
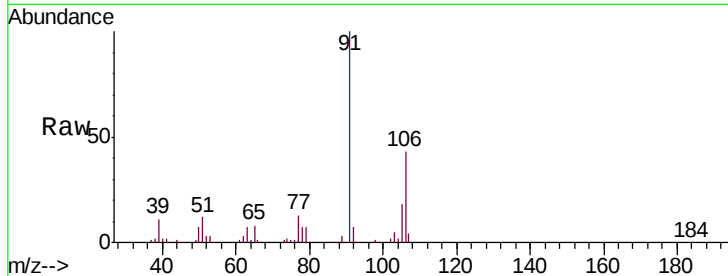




#69
o-Xylene
Concen: 53.816 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

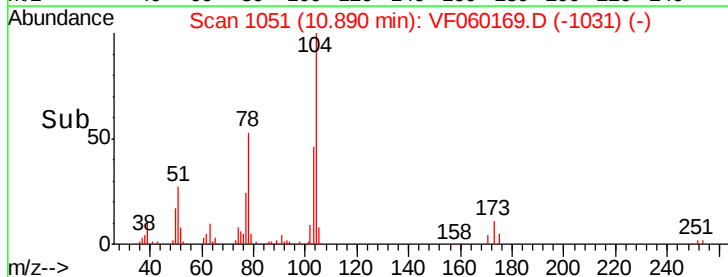
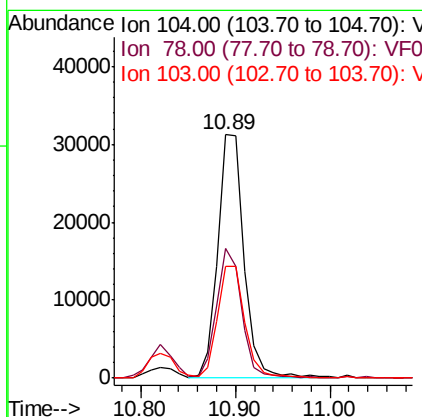
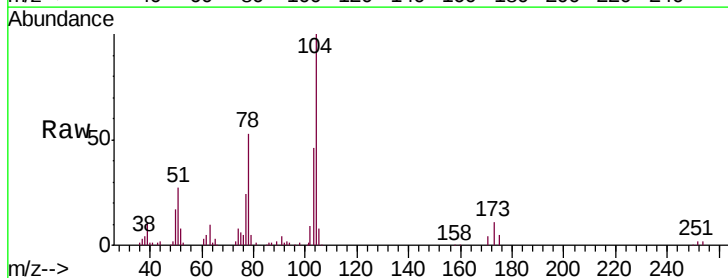
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

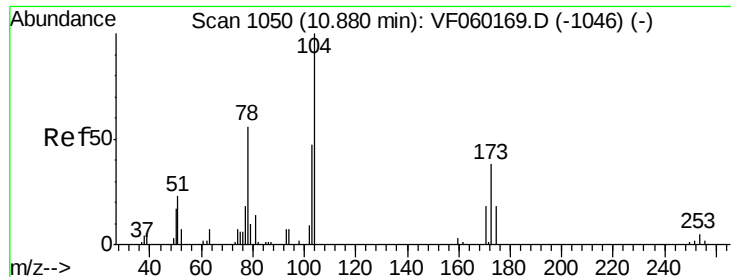
Tgt Ion:106 Resp: 48676
Ion Ratio Lower Upper
106 100
91 233.9 117.0 350.8



#70
Styrene
Concen: 44.256 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion:104 Resp: 59670
Ion Ratio Lower Upper
104 100
78 53.3 42.6 64.0
103 46.0 36.8 55.2





#71

Bromoform

Concen: 28.090 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

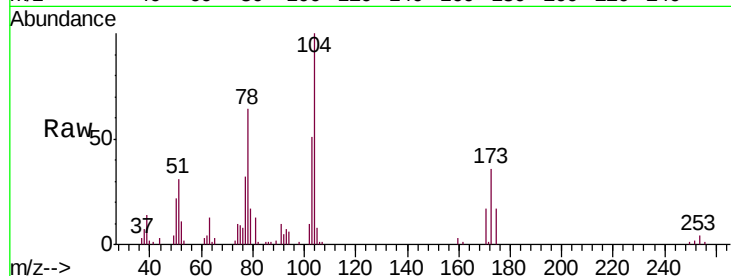
Tgt Ion:173 Resp: 9039

Ion Ratio Lower Upper

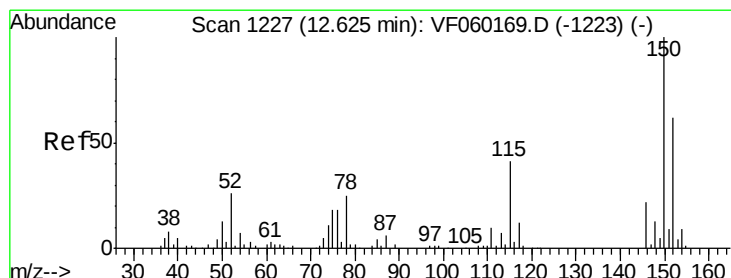
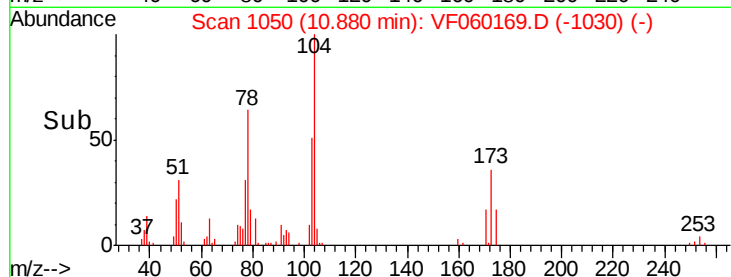
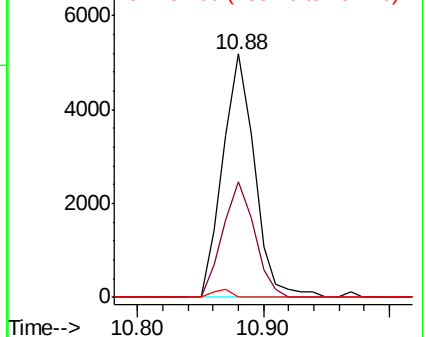
173 100

175 47.5 23.8 71.2

254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

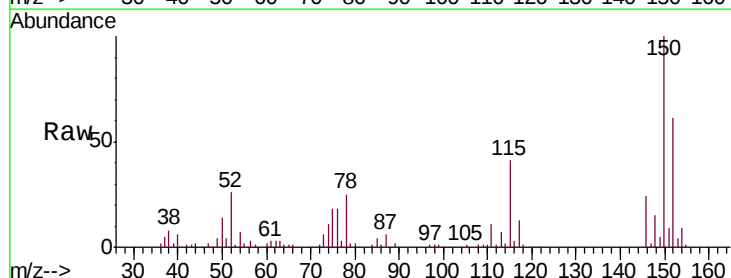
Tgt Ion:152 Resp: 34941

Ion Ratio Lower Upper

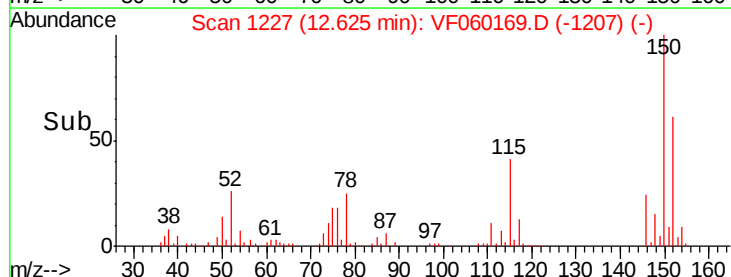
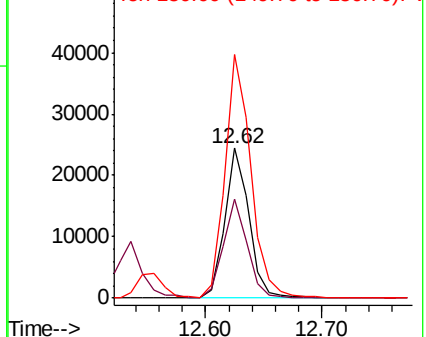
152 100

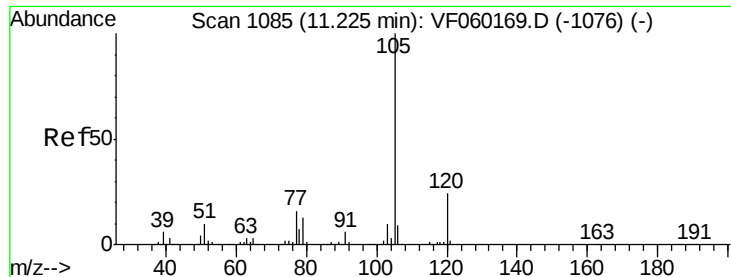
115 66.4 33.2 99.6

150 162.8 0.0 325.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 83.316 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

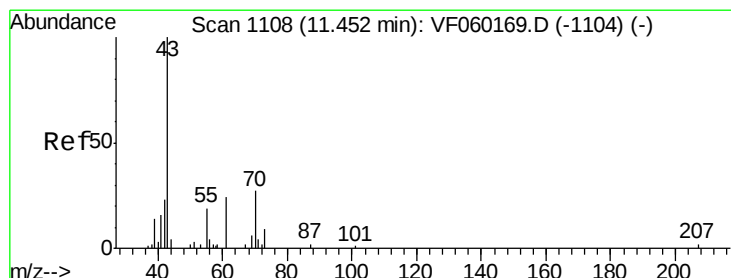
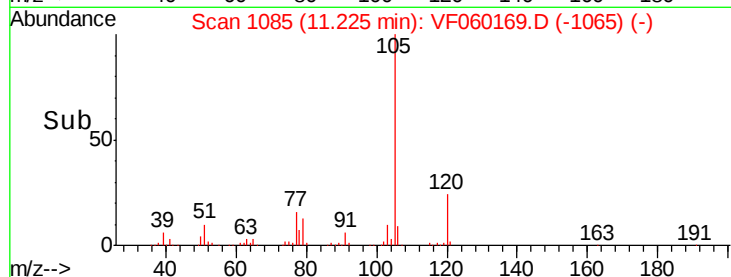
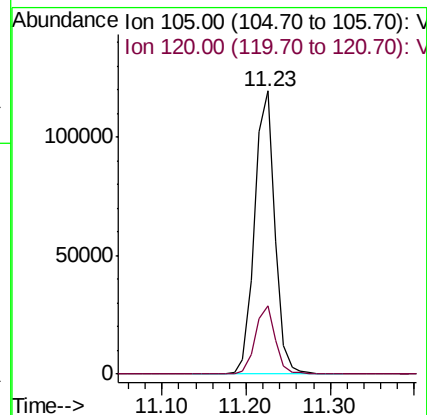
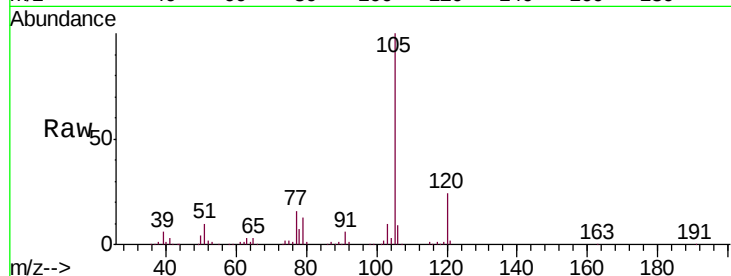
VSTDICCC050

Tgt Ion: 105 Resp: 202526

Ion Ratio Lower Upper

105 100

120 24.1 12.0 36.1



#74

N-ethyl acetate

Concen: 21.772 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Tgt Ion: 43 Resp: 12639

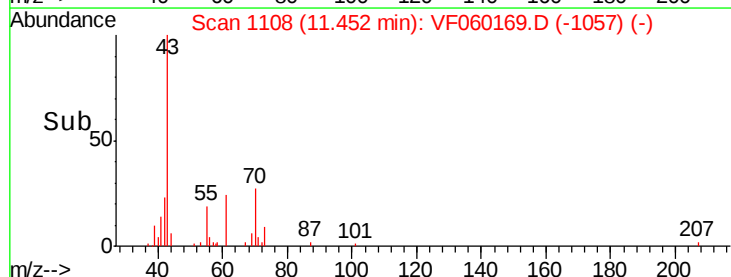
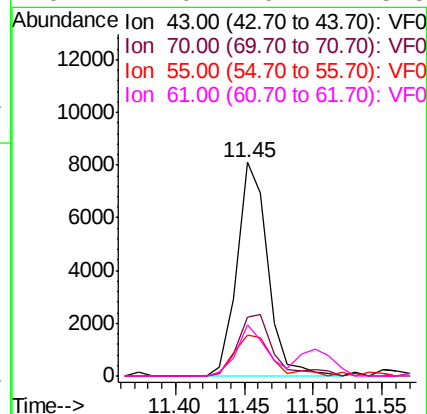
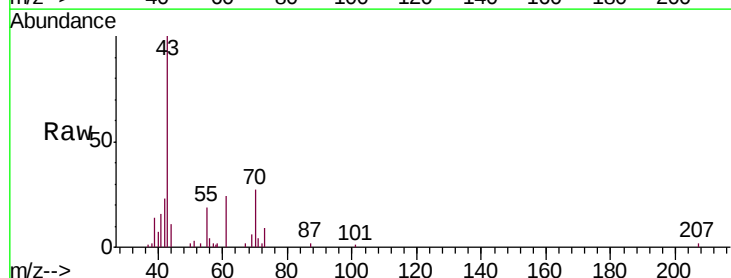
Ion Ratio Lower Upper

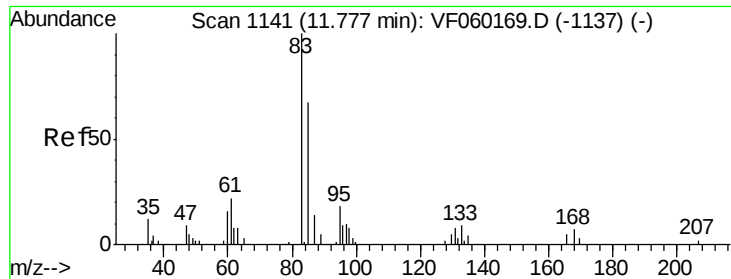
43 100

70 27.5 22.0 33.0

55 19.0 15.2 22.8

61 24.0 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 28.074 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

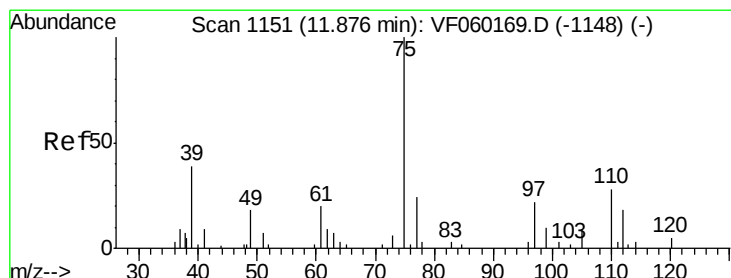
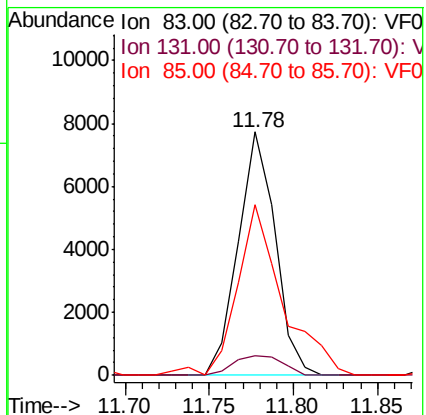
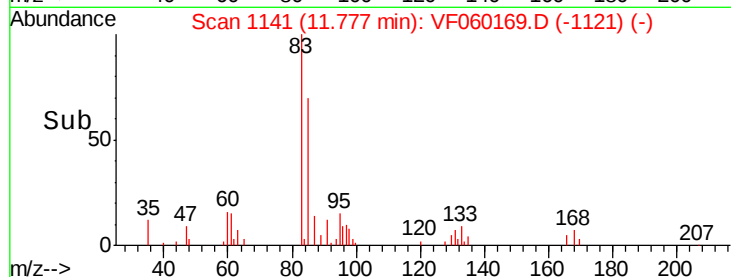
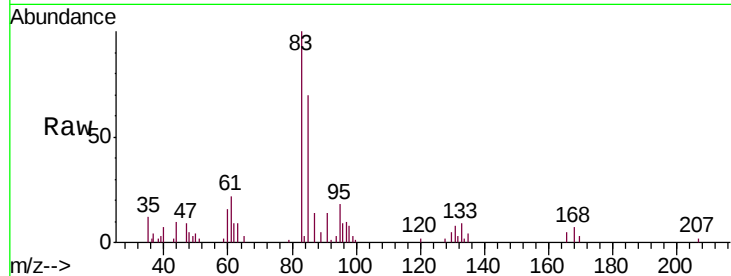
Tgt Ion: 83 Resp: 11805

Ion Ratio Lower Upper

83 100

131 8.0 4.0 12.0

85 69.8 34.9 104.7



#76

1,2,3-Trichloropropane

Concen: 32.542 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VF060169.D

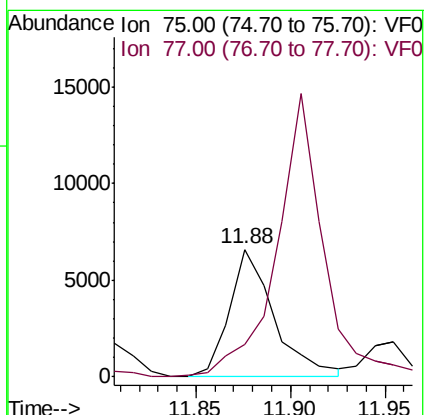
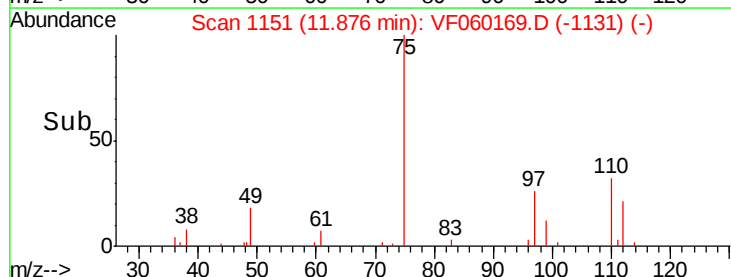
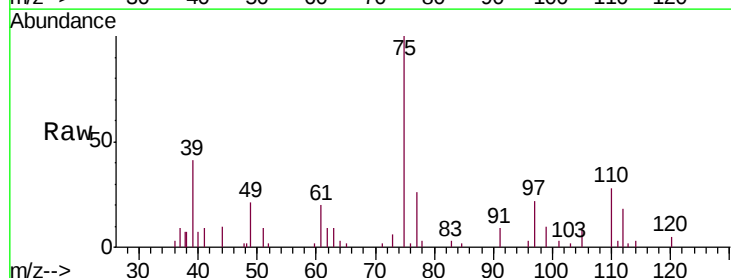
Acq: 29 Aug 2018 1:26

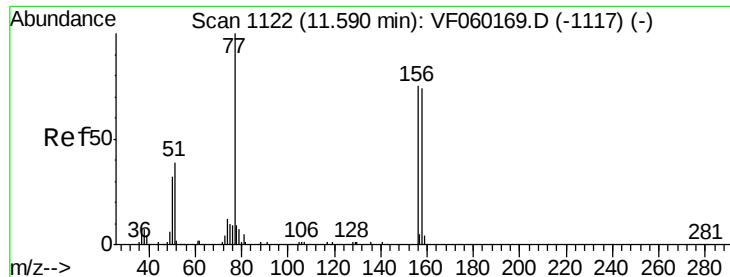
Tgt Ion: 75 Resp: 10875

Ion Ratio Lower Upper

75 100

77 25.5 12.8 38.3

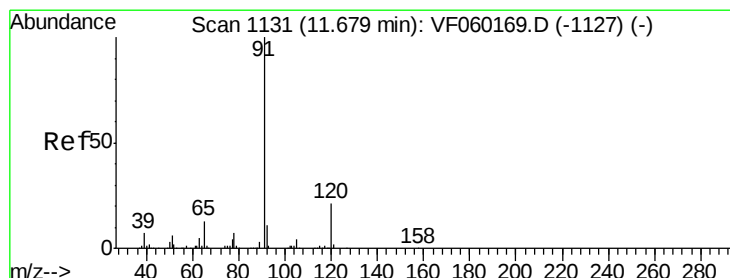
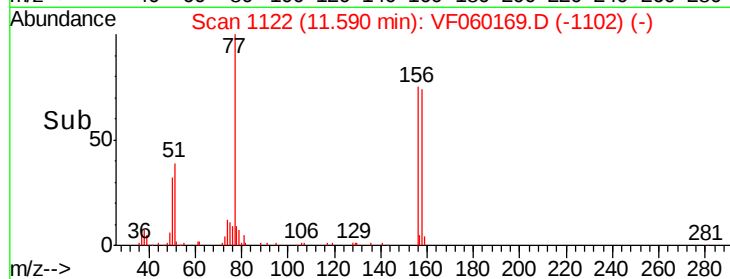
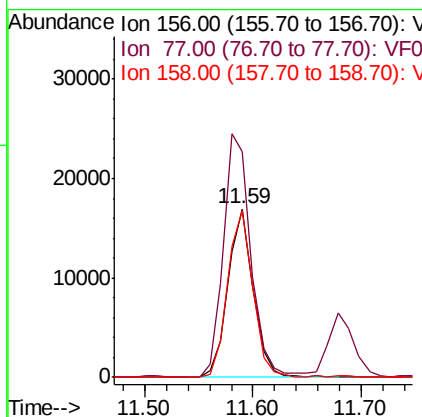
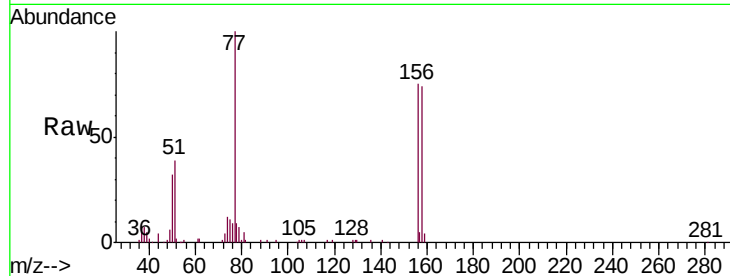




#77
 Bromobenzene
 Concen: 48.779 ug/l
 RT: 11.59 min Scan# 1122
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

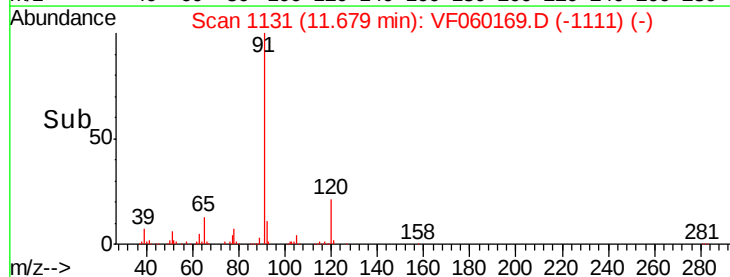
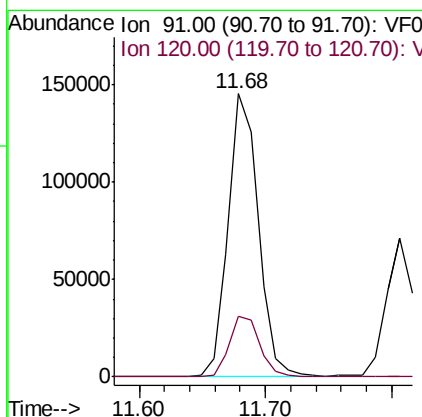
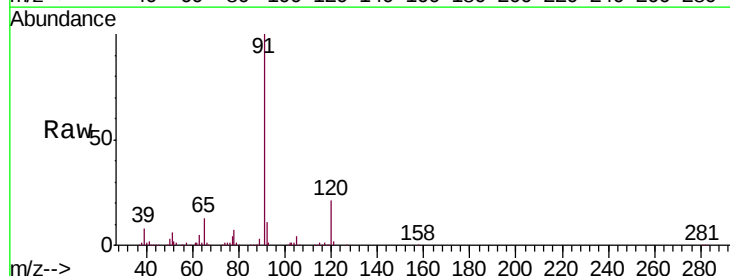
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

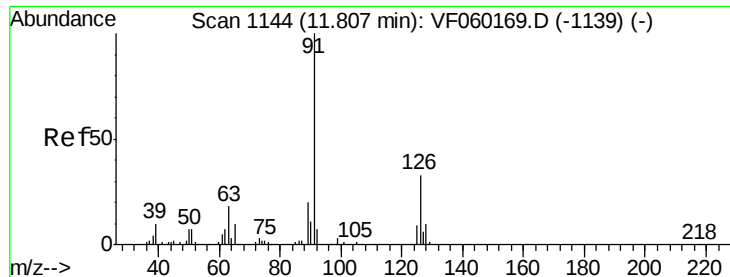
Tgt Ion: 156 Resp: 27784
 Ion Ratio Lower Upper
 156 100
 77 133.7 66.8 200.6
 158 99.4 49.7 149.1



#78
 n-propylbenzene
 Concen: 80.829 ug/l
 RT: 11.68 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion: 91 Resp: 240068
 Ion Ratio Lower Upper
 91 100
 120 21.5 10.8 32.3





#79

2-Chlorotoluene

Concen: 66.626 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

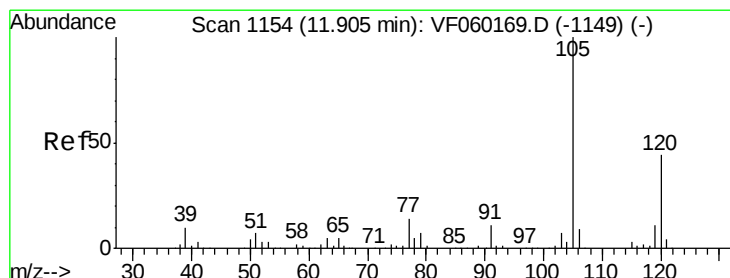
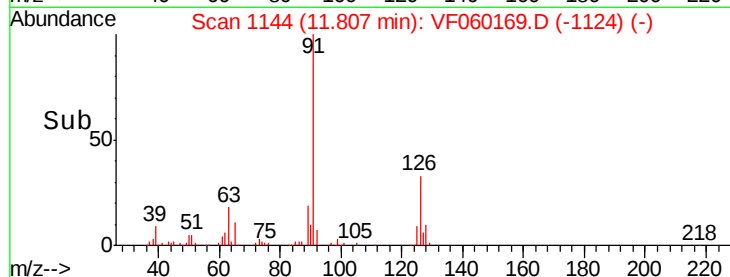
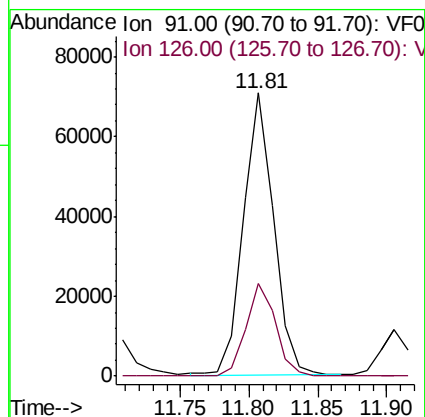
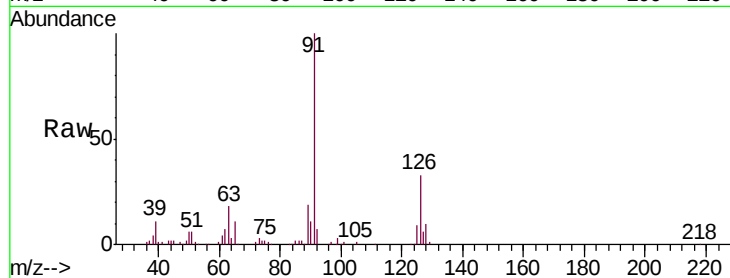
VSTDICCC050

Tgt Ion: 91 Resp: 109470

Ion Ratio Lower Upper

91 100

126 32.7 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 73.965 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF060169.D

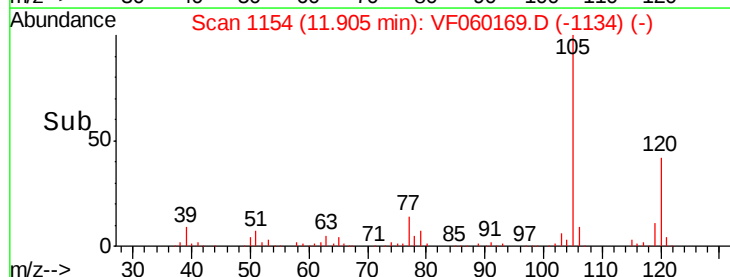
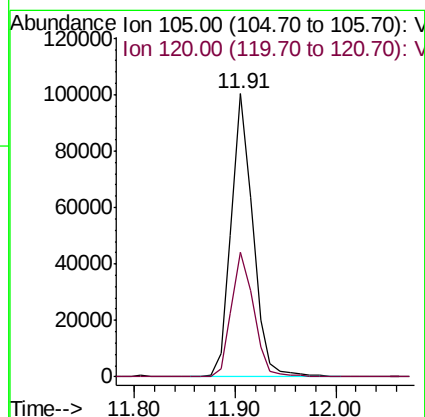
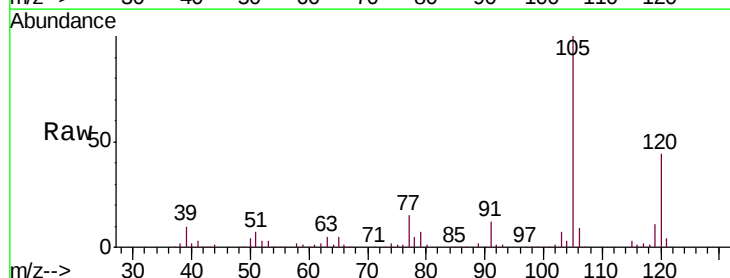
Acq: 29 Aug 2018 1:26

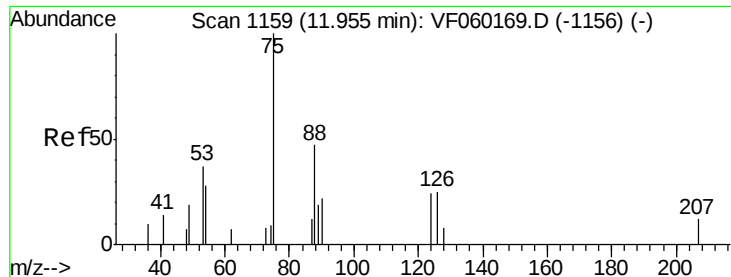
Tgt Ion: 105 Resp: 150126

Ion Ratio Lower Upper

105 100

120 44.1 22.1 66.1





#81

trans-1,4-Dichloro-2-butene

Concen: 18.575 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

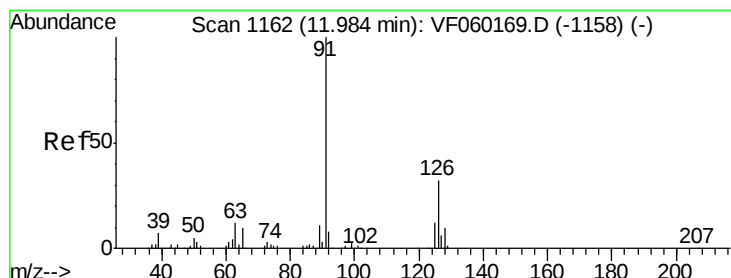
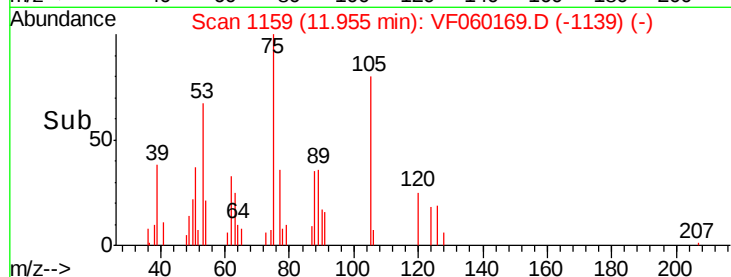
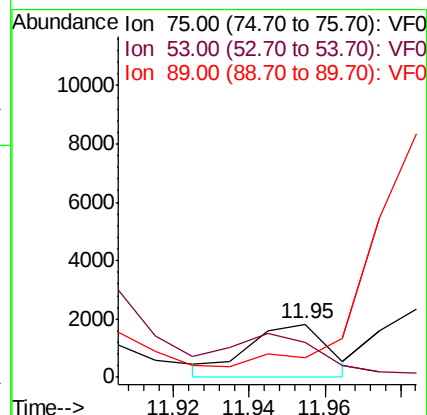
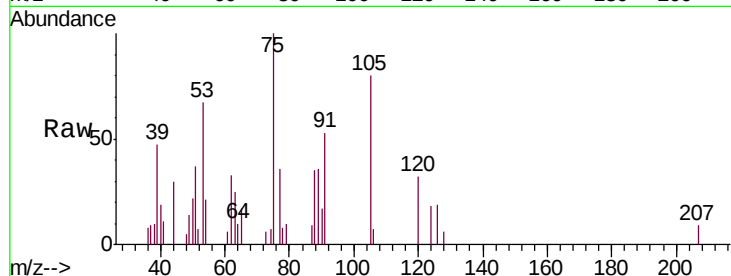
Tgt Ion: 75 Resp: 2668

Ion Ratio Lower Upper

75 100

53 66.7 53.4 80.0

89 36.1 28.9 43.3



#82

4-Chlorotoluene

Concen: 60.719 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VF060169.D

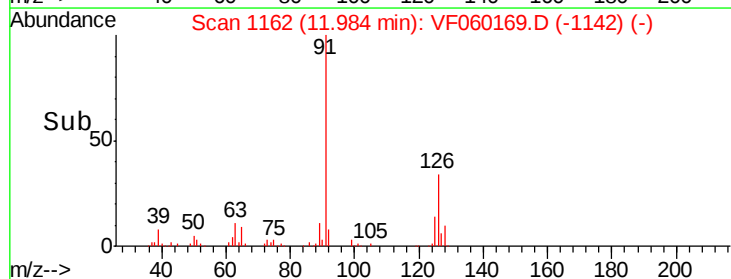
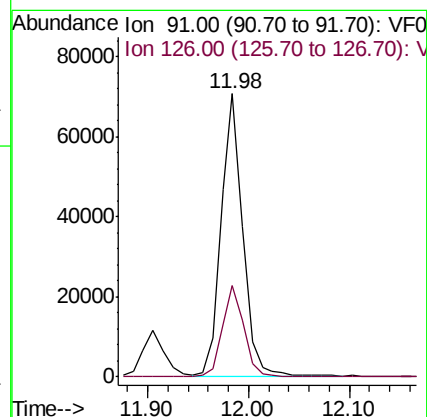
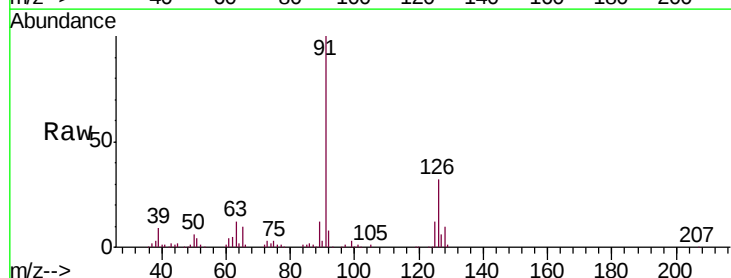
Acq: 29 Aug 2018 1:26

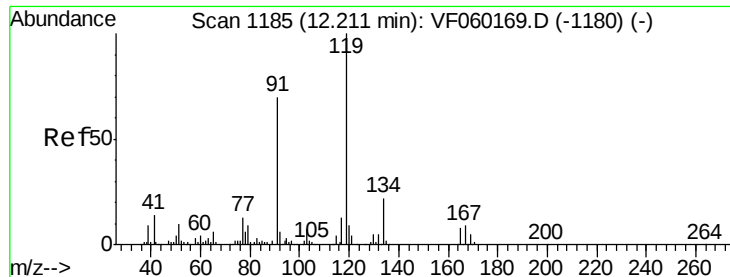
Tgt Ion: 91 Resp: 105750

Ion Ratio Lower Upper

91 100

126 32.1 16.1 48.2





#83

tert-Butylbenzene

Concen: 75.804 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

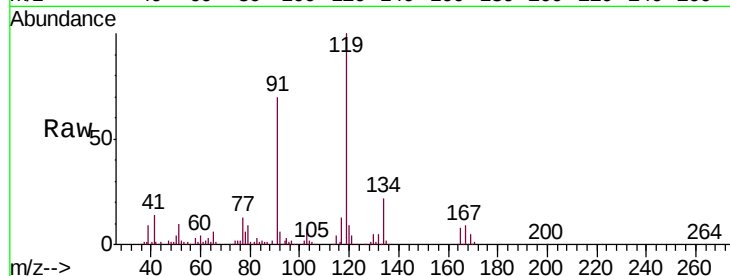
Tgt Ion:119 Resp: 151557

Ion Ratio Lower Upper

119 100

91 70.5 35.3 105.7

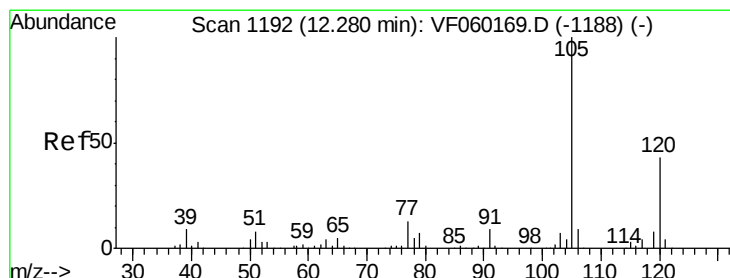
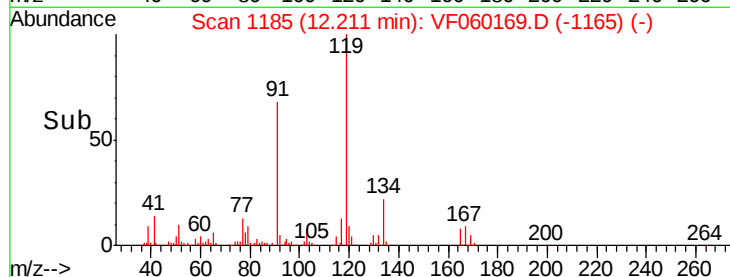
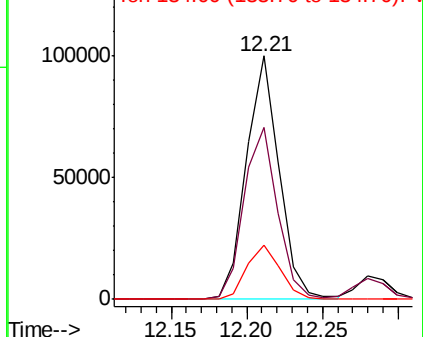
134 22.3 11.2 33.5

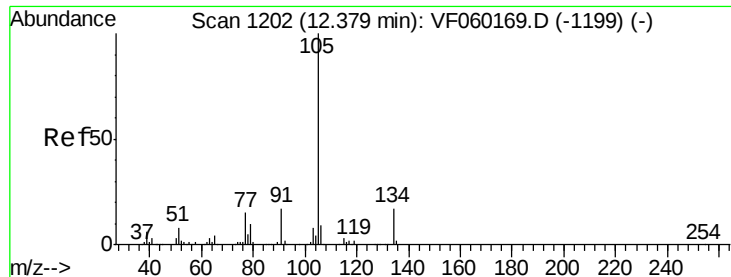


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

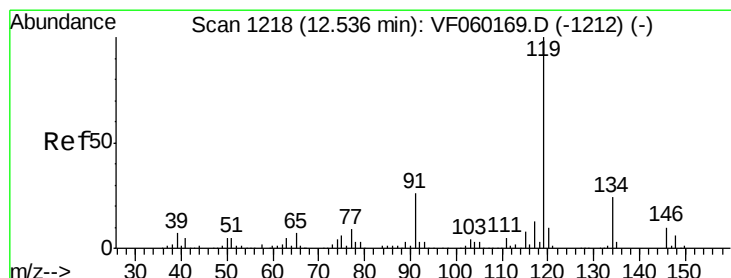
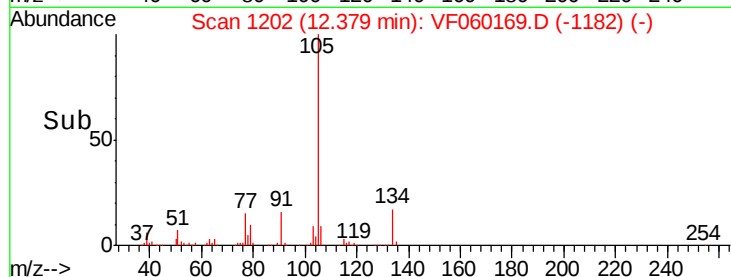
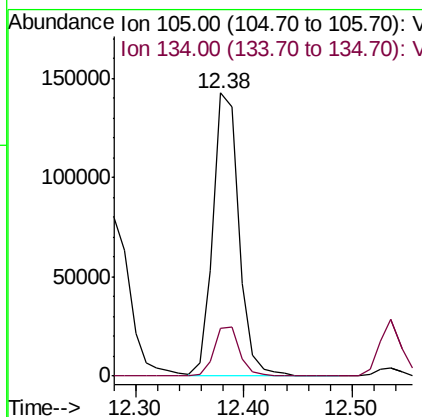
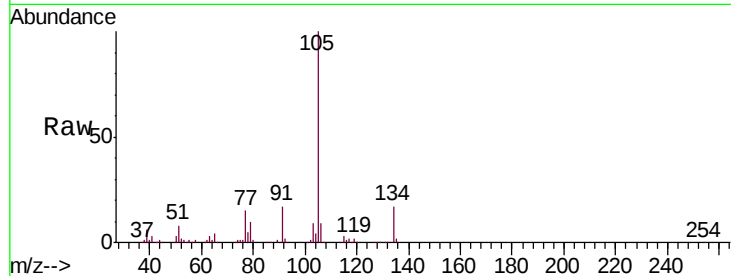




#85
 sec-Butylbenzene
 Concen: 82.605 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

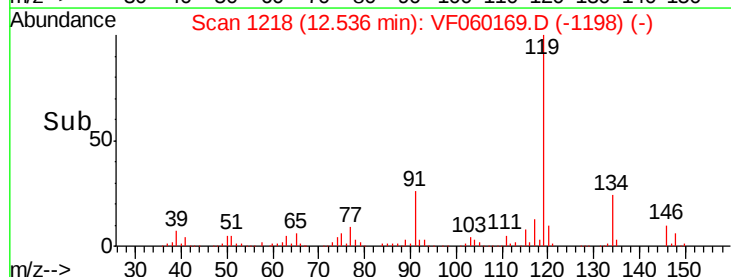
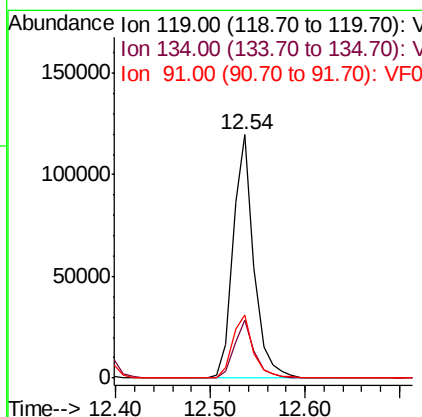
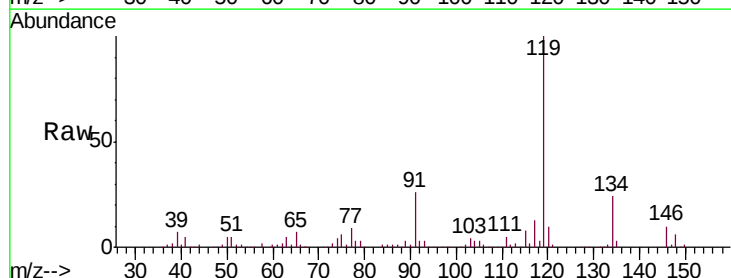
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

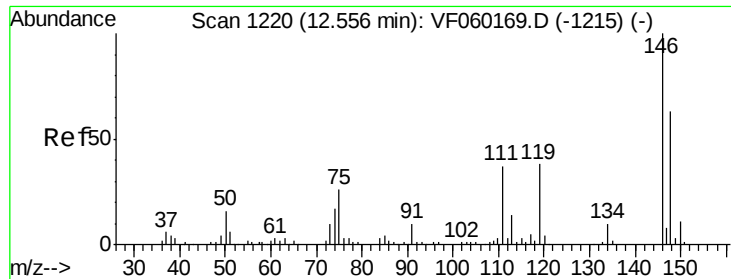
Tgt Ion:105 Resp: 237469
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.4 25.2



#86
 p-Isopropyltoluene
 Concen: 78.108 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion:119 Resp: 181787
 Ion Ratio Lower Upper
 119 100
 134 23.9 11.9 35.9
 91 26.0 13.0 39.0

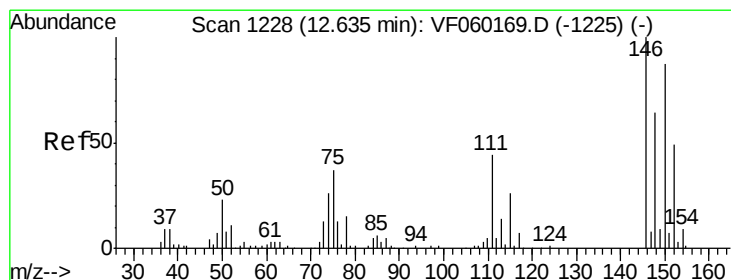
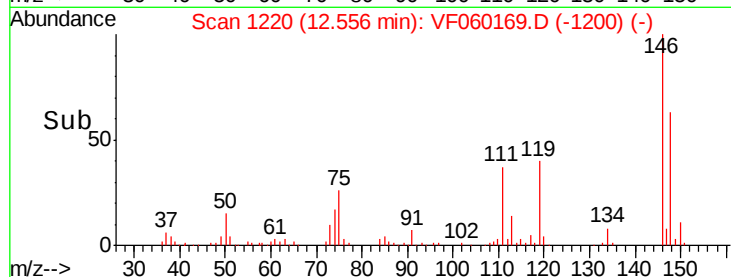
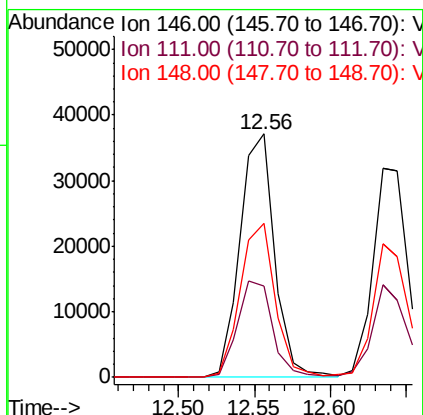
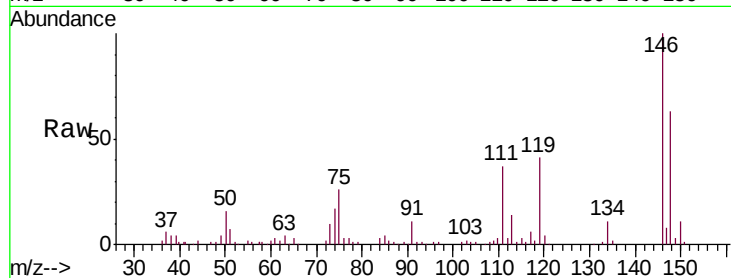




#87
 1,3-Dichlorobenzene
 Concen: 54.798 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

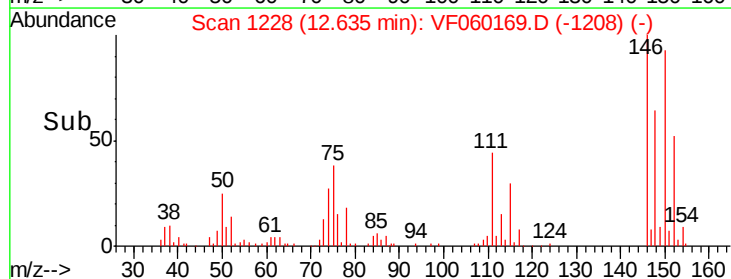
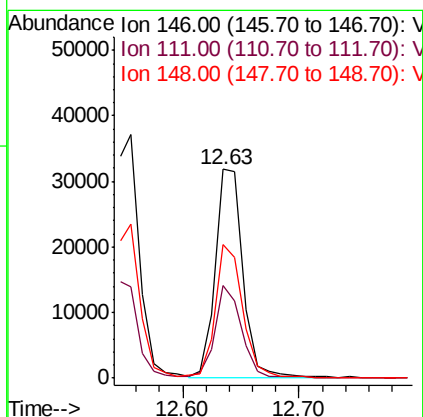
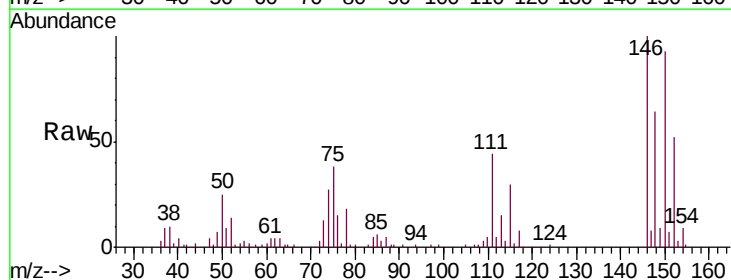
Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDICCC050

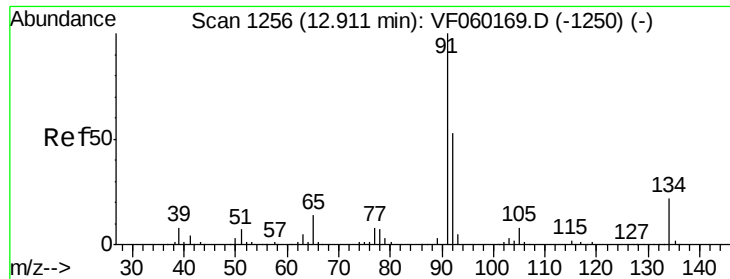
Tgt Ion:146 Resp: 59258
 Ion Ratio Lower Upper
 146 100
 111 37.5 18.8 56.3
 148 63.2 31.6 94.8



#88
 1,4-Dichlorobenzene
 Concen: 49.715 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion:146 Resp: 52629
 Ion Ratio Lower Upper
 146 100
 111 44.2 22.1 66.3
 148 64.1 32.0 96.2





#89

n-Butylbenzene

Concen: 71.954 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VF060169.D

Acq: 29 Aug 2018 1:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

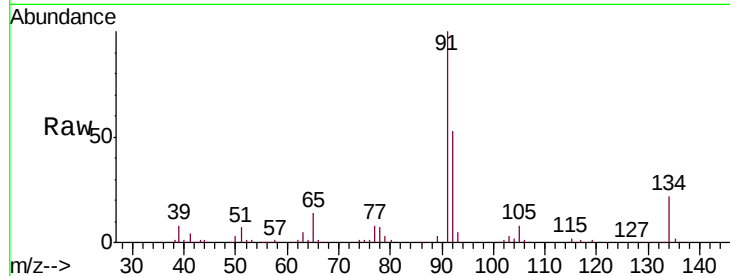
Tgt Ion: 91 Resp: 156940

Ion Ratio Lower Upper

91 100

92 53.3 26.7 80.0

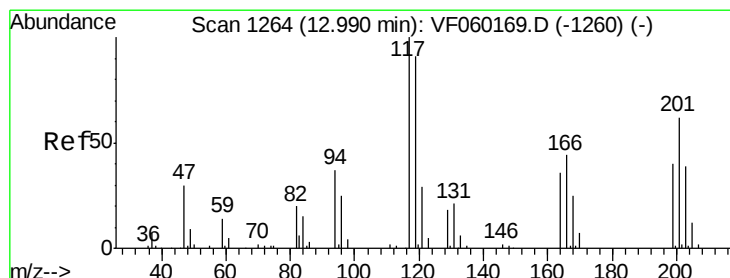
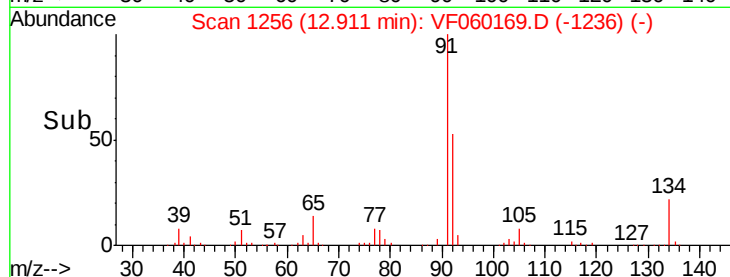
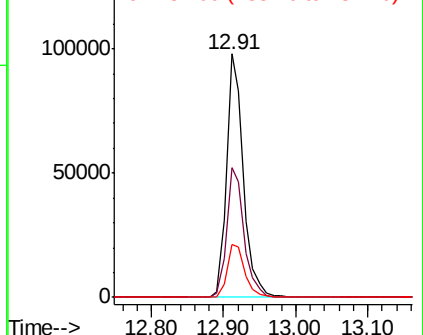
134 22.0 11.0 33.0



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



#90

Hexachloroethane

Concen: 74.333 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VF060169.D

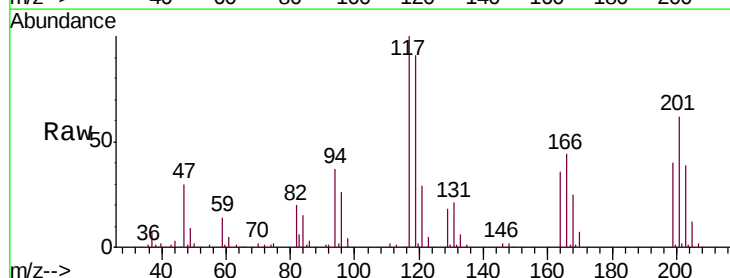
Acq: 29 Aug 2018 1:26

Tgt Ion: 117 Resp: 38203

Ion Ratio Lower Upper

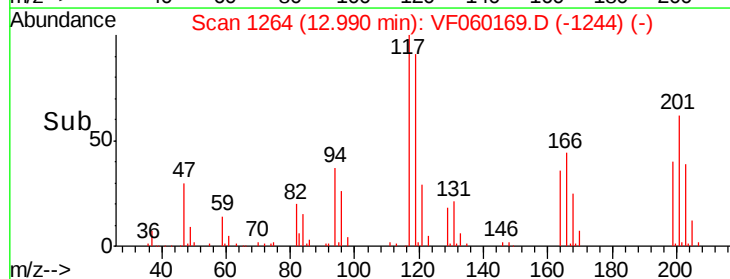
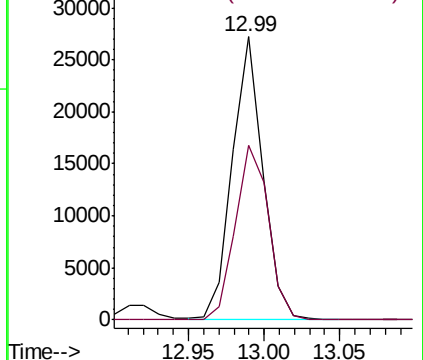
117 100

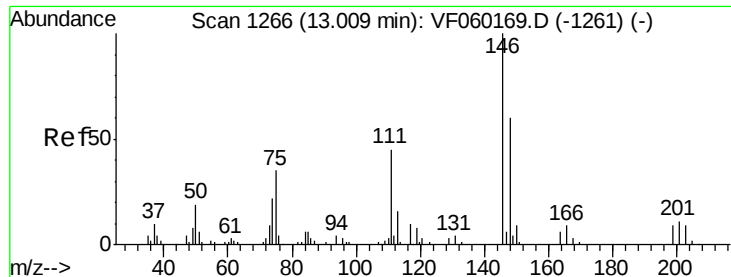
201 64.1 32.0 96.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

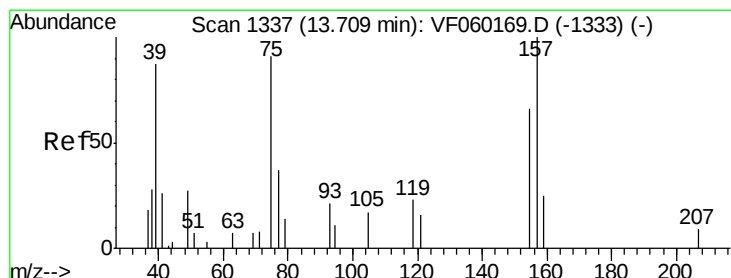
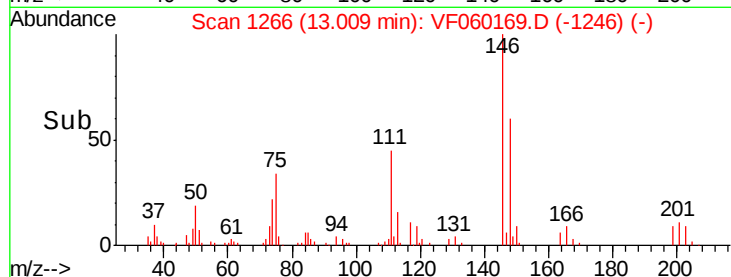
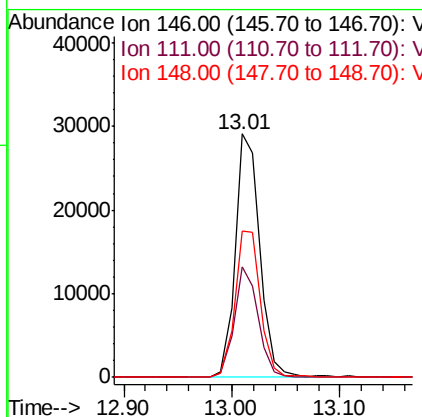
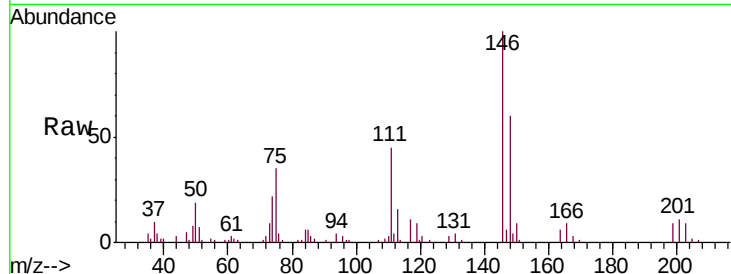




#91
 1,2-Dichlorobenzene
 Concen: 45.794 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

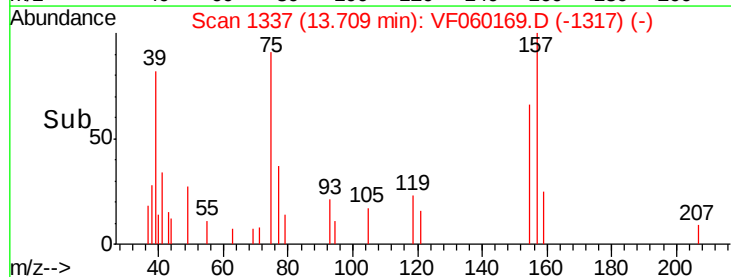
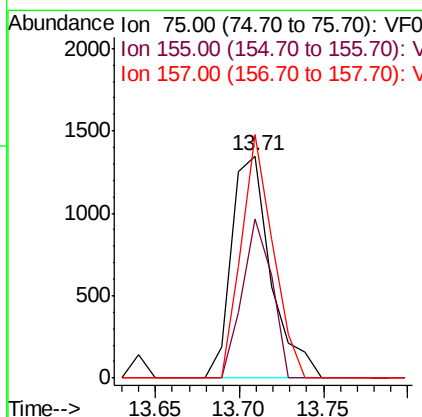
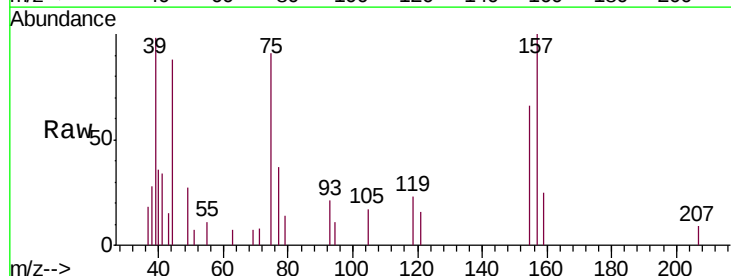
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

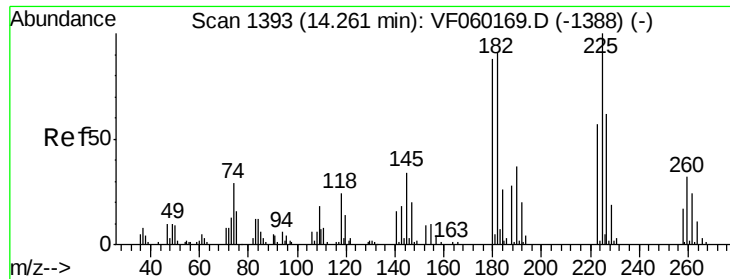
Tgt Ion: 146 Resp: 45823
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.7 68.1
 148 60.1 30.0 90.1



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 25.847 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion: 75 Resp: 2194
 Ion Ratio Lower Upper
 75 100
 155 72.0 36.0 108.0
 157 109.7 54.9 164.5

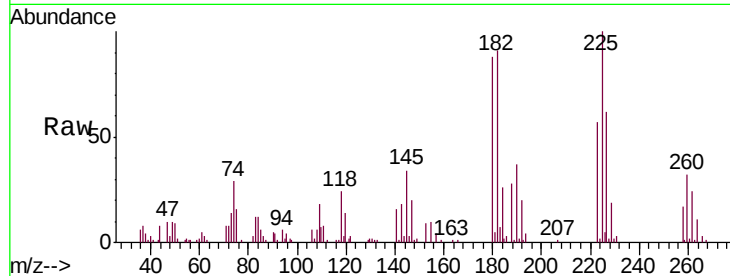




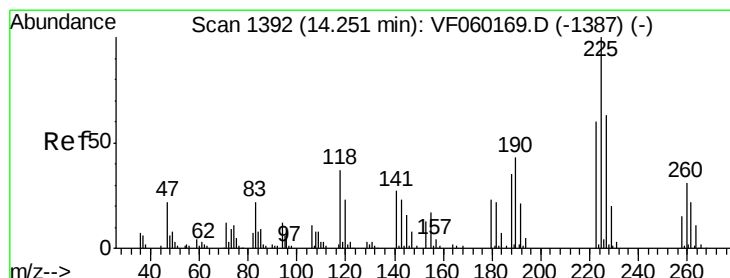
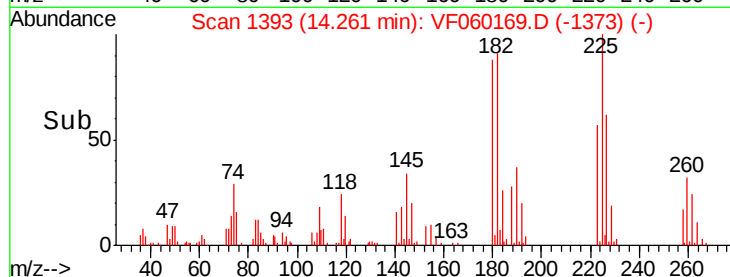
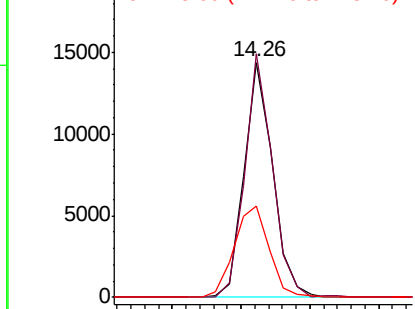
#93
 1,2,4-Trichlorobenzene
 Concen: 30.514 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tgt Ion:180 Resp: 20943
 Ion Ratio Lower Upper
 180 100
 182 103.7 51.8 155.5
 145 38.6 19.3 57.9

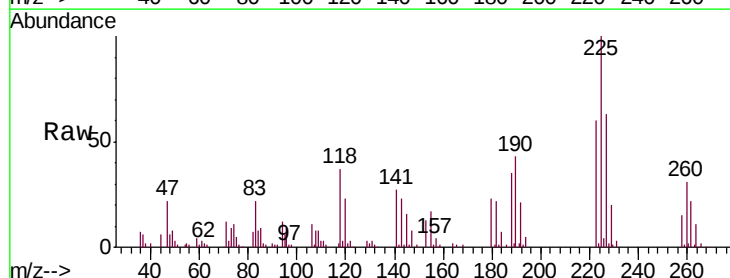


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

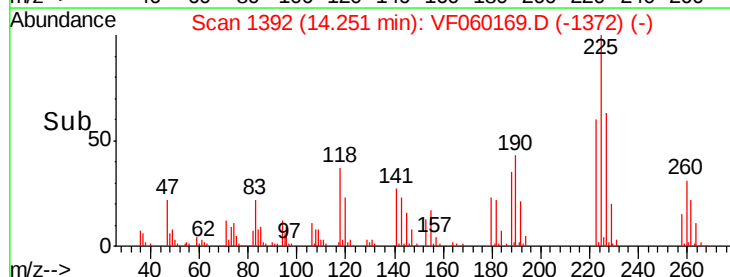
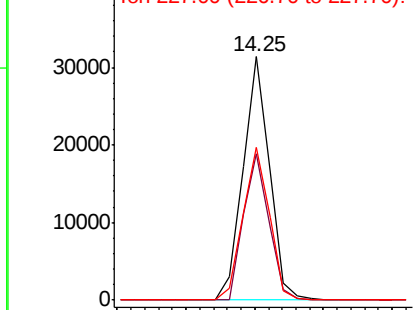


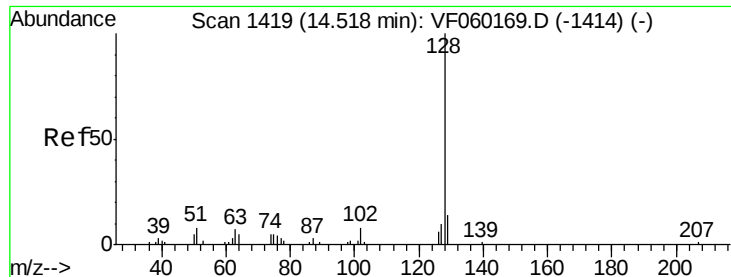
#94
 Hexachlorobutadiene
 Concen: 79.629 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF060169.D
 Acq: 29 Aug 2018 1:26

Tgt Ion:225 Resp: 42026
 Ion Ratio Lower Upper
 225 100
 223 60.0 30.0 90.0
 227 62.8 31.4 94.2



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

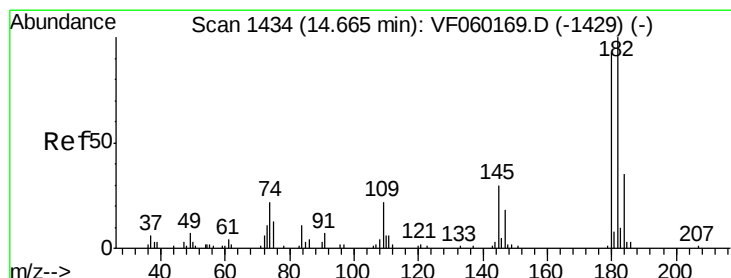
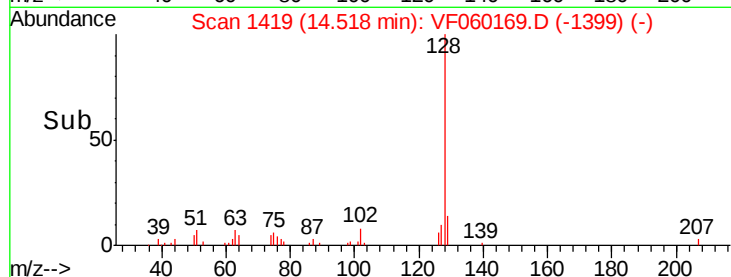
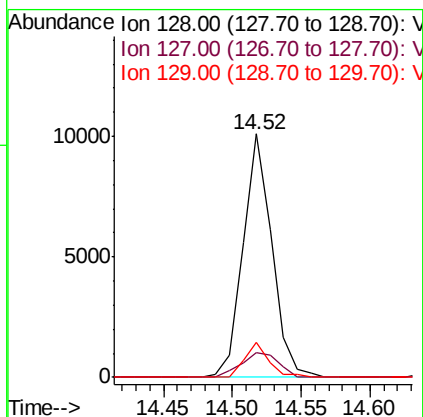
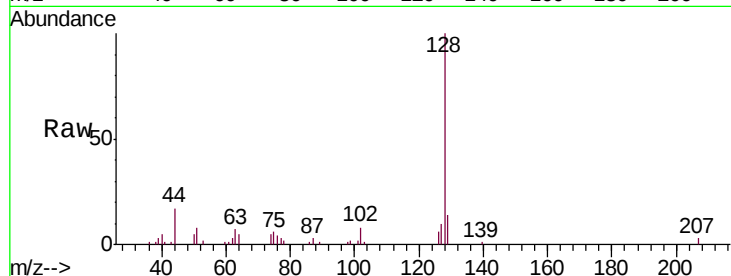




#95
Naphthalene
Concen: 15.268 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 14863
Ion Ratio Lower Upper
128 100
127 10.4 8.3 12.5
129 14.4 11.5 17.3



#96
1,2,3-Trichlorobenzene
Concen: 25.893 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF060169.D
Acq: 29 Aug 2018 1:26

Tgt Ion:180 Resp: 16651
Ion Ratio Lower Upper
180 100
182 107.2 53.6 160.8
145 32.4 16.2 48.6

