

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051419\
 Data File : VF062601.D
 Acq On : 15 May 2019 1:21
 Operator : FY/SY
 Sample : K2756-20RE
 Misc : 5.75u/5mL/MSVOA F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

Quant Time: May 15 05:20:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051419S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 05:06:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	49570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	50280	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	22189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	1202	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	4232	11.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	22.60%	
35) Dibromofluoromethane	4.32	113	9557	25.54	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	51.08%	
50) Toluene-d8	7.73	98	29971	33.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.98%	
62) 4-Bromofluorobenzene	11.52	95	2782	9.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	843	Below Cal	#	45
3) Chloromethane	1.01	50	889	1.573	ug/l	99
5) Bromomethane	1.29	94	252	1.163	ug/l	88
6) Chloroethane	1.45	64	1017	4.760	ug/l #	72
8) Diethyl Ether	1.70	74	499	2.888	ug/l	76
11) Tert butyl alcohol	2.69	59	138	6.121	ug/l #	73
12) 1,1-Dichloroethene	1.88	96	805	1.787	ug/l #	3
13) Acrolein	2.11	56	122	8.165	ug/l #	72
14) Allyl chloride	2.19	41	1454	3.155	ug/l #	34
15) Acrylonitrile	2.98	53	617	7.650	ug/l	84
16) Acetone	2.22	43	783	10.304	ug/l	93
17) Carbon Disulfide	1.92	76	192	Below Cal	#	71
18) Methyl Acetate	2.48	43	1245	2.365	ug/l #	48
19) Methyl tert-butyl Ether	2.55	73	1201	1.497	ug/l #	37
21) trans-1,2-Dichloroethene	2.46	96	887	1.954	ug/l #	1
23) Vinyl Acetate	3.39	43	662	1.129	ug/l #	75
25) 2-Butanone	4.61	43	739	4.302	ug/l	96
26) 2,2-Dichloropropane	3.72	77	939	2.133	ug/l	88
29) Tetrahydrofuran	4.24	42	1728	23.770	ug/l #	34
37) Ethyl Acetate	4.30	43	759	4.245	ug/l #	2
41) Methacrylonitrile	4.94	41	708	6.993	ug/l #	54
43) Isopropyl Acetate	7.11	43	516	2.439	ug/l #	40
46) Dibromomethane	6.30	93	611	3.508	ug/l #	41
48) Methyl methacrylate	6.89	41	440	3.799	ug/l #	63
49) 1,4-Dioxane	6.92	88	336	220.177	ug/l #	16
51) 4-Methyl-2-Pentanone	8.42	43	804	5.186	ug/l #	77
53) t-1,3-Dichloropropene	8.42	75	548	1.852	ug/l #	85
54) cis-1,3-Dichloropropene	7.46	75	444	1.062	ug/l #	1
55) 1,1,2-Trichloroethane	8.67	97	248	1.333	ug/l #	29
57) 1,3-Dichloropropane	9.03	76	318	1.036	ug/l #	53
58) 2-Chloroethyl Vinyl ether	7.45	63	122	1.912	ug/l #	53
59) 2-Hexanone	9.50	43	568	5.548	ug/l	86
60) Dibromochloromethane	8.71	129	259	1.096	ug/l	61
64) Tetrachloroethene	8.28	164	162	1.105	ug/l #	23

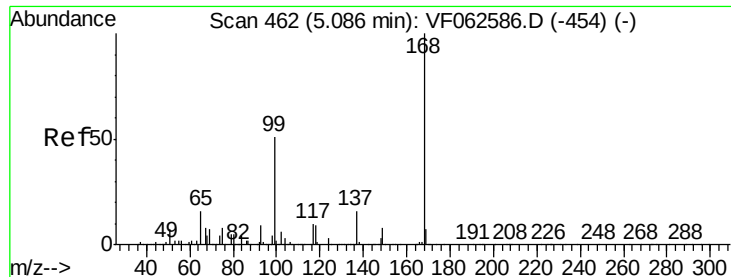
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051419\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Chlorobenzene	9.94	112	562	1.457	ug/l #	40
68) m/p-Xylenes	10.28	106	550	2.264	ug/l #	24
71) Bromoform	10.92	173	92	1.233	ug/l #	29
73) Isopropylbenzene	11.23	105	297	3.675	ug/l #	48
74) N-amyl acetate	11.48	43	533	27.161	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	11.82	83	156	9.422	ug/l #	25
76) 1,2,3-Trichloropropane	11.88	75	225	21.198	ug/l #	14
77) Bromobenzene	11.56	156	84	4.599	ug/l #	19
78) n-propylbenzene	11.69	91	209	2.174	ug/l #	1
79) 2-Chlorotoluene	11.77	91	563	10.612	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.91	105	225	3.557	ug/l #	26
81) trans-1,4-Dichloro-2-buten	11.97	75	184	40.670	ug/l #	40
82) 4-Chlorotoluene	11.98	91	353	6.805	ug/l #	40
83) tert-Butylbenzene	12.21	119	385	5.818	ug/l #	81
84) 1,2,4-Trimethylbenzene	12.29	105	129	2.076	ug/l #	27
85) sec-Butylbenzene	12.35	105	174	1.937	ug/l #	59
86) p-Isopropyltoluene	12.51	119	344	4.651	ug/l #	51
87) 1,3-Dichlorobenzene	12.50	146	154	4.311	ug/l #	23
88) 1,4-Dichlorobenzene	12.67	146	174	5.193	ug/l #	72
89) n-Butylbenzene	12.92	91	138	1.833	ug/l #	79
90) Hexachloroethane	13.01	117	95	5.015	ug/l #	21
91) 1,2-Dichlorobenzene	13.02	146	81	2.556	ug/l #	33
92) 1,2-Dibromo-3-Chloropropan	13.72	75	134	65.888	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.27	180	95	4.311	ug/l #	12
94) Hexachlorobutadiene	14.25	225	99	6.184	ug/l #	19
95) Naphthalene	14.52	128	135	3.764	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.60	180	98	4.794	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

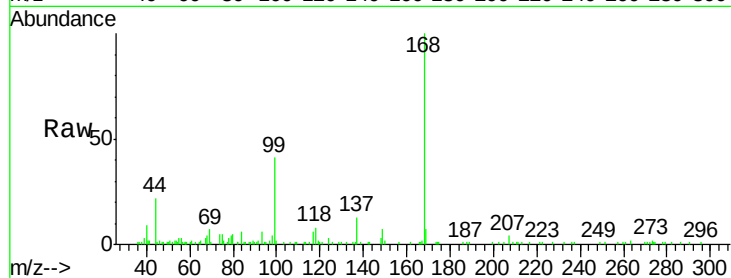
P021-SS008-0206-02RE

Tot Ion:168 Resp: 49570

Ion Ratio Lower Upper

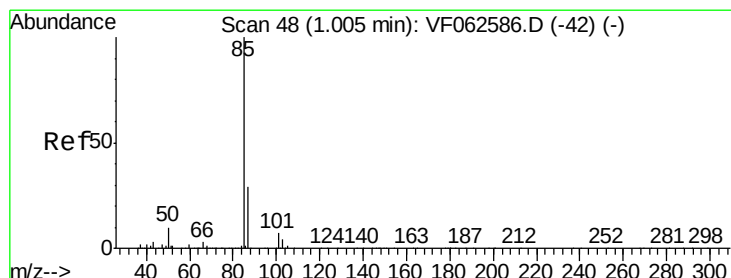
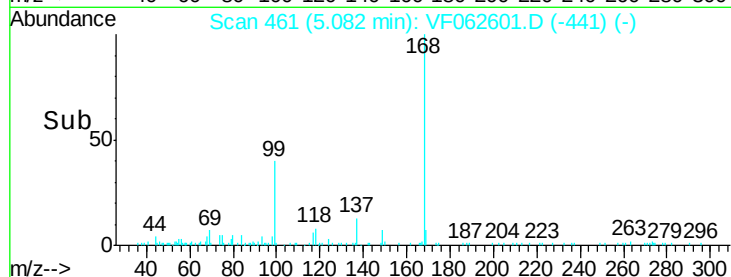
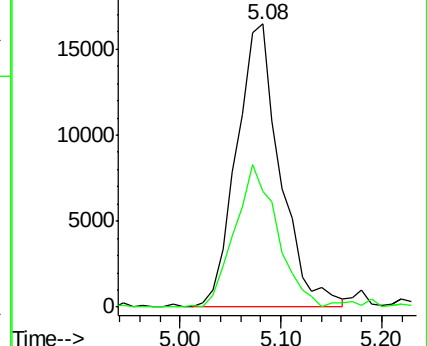
168 100

99 40.8 41.0 61.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 45

Delta R.T. -0.02 min

Lab File: VF062601.D

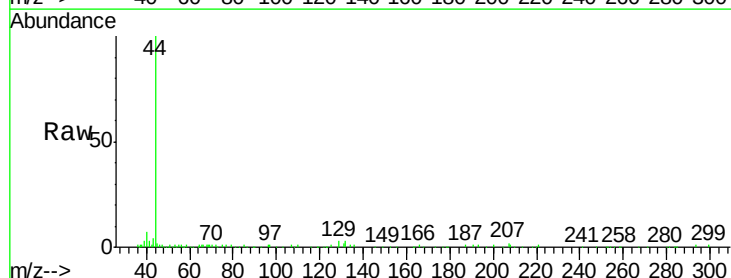
Acq: 15 May 2019 1:21

Tgt Ion: 85 Resp: 843

Ion Ratio Lower Upper

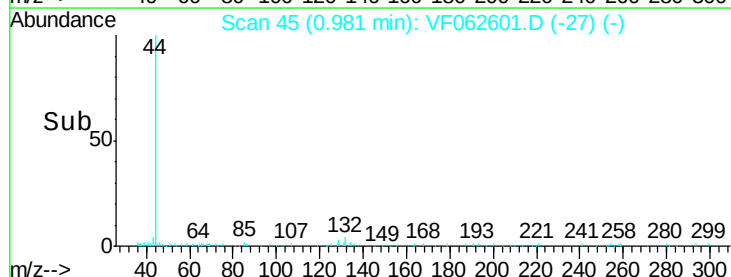
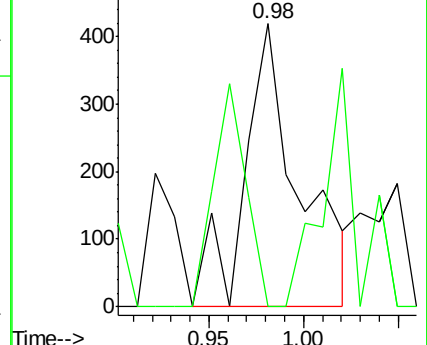
85 100

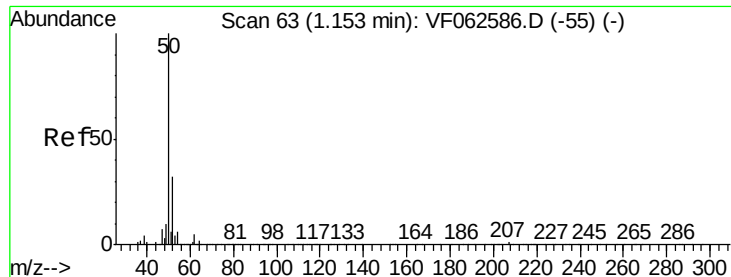
87 0.0 14.6 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 1.573 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.14 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

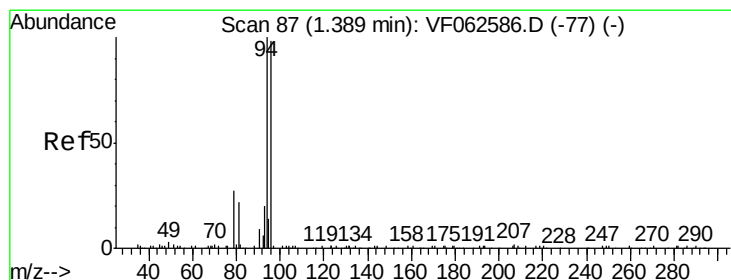
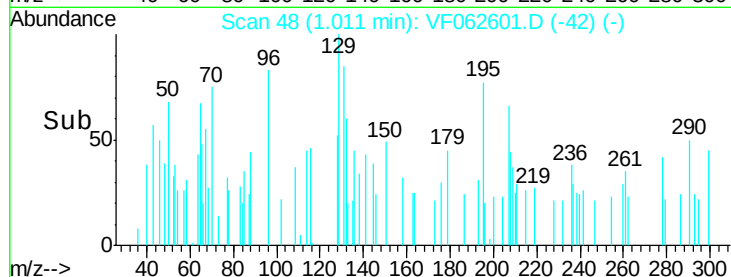
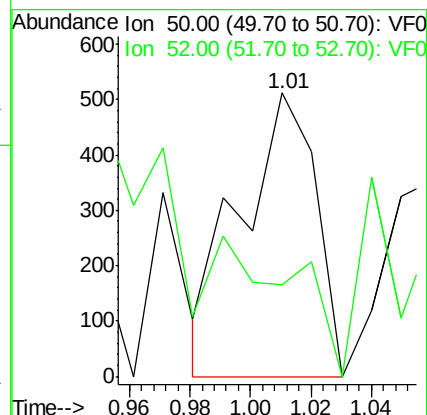
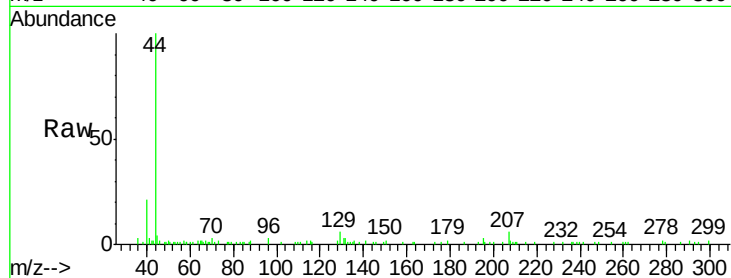
P021-SS008-0206-02RE

Tot Ion: 50 Resp: 889

Ion Ratio Lower Upper

50 100

52 32.2 25.3 37.9



#5

Bromomethane

Concen: 1.163 ug/l

RT: 1.29 min Scan# 76

Delta R.T. -0.10 min

Lab File: VF062601.D

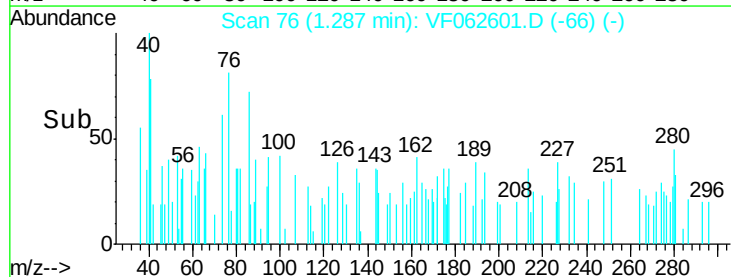
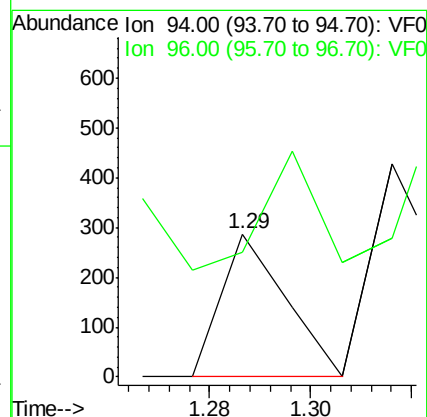
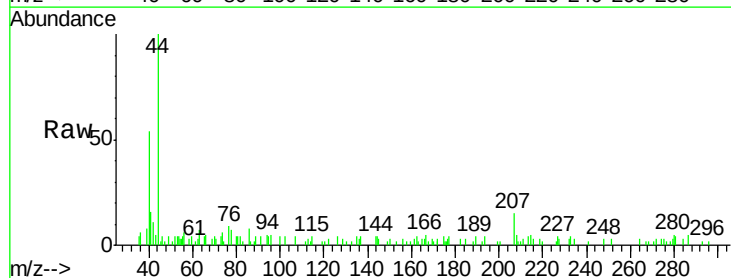
Acq: 15 May 2019 1:21

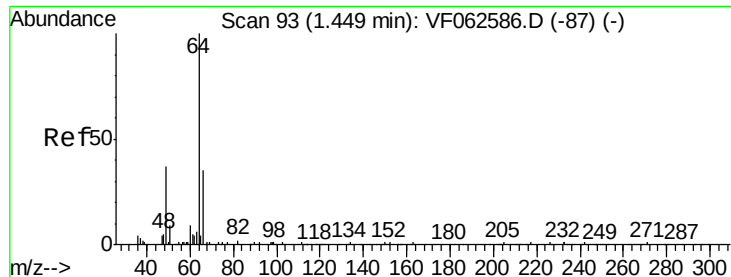
Tgt Ion: 94 Resp: 252

Ion Ratio Lower Upper

94 100

96 87.1 79.3 118.9





#6

Chloroethane

Concen: 4.760 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

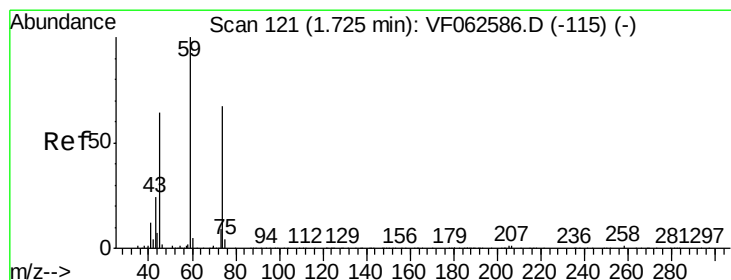
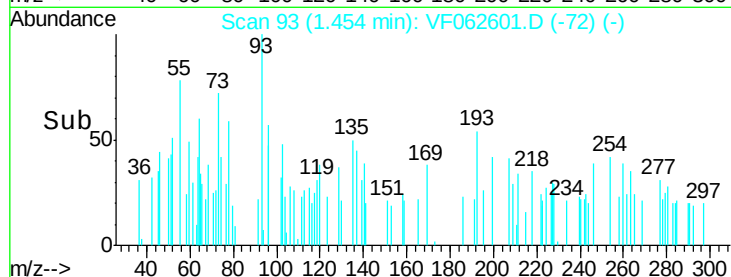
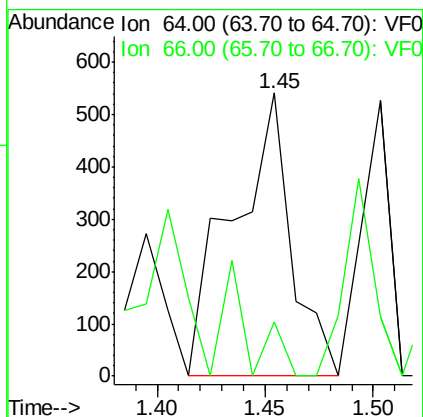
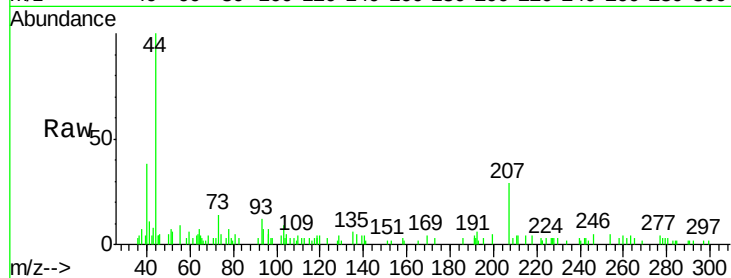
P021-SS008-0206-02RE

Tot Ion: 64 Resp: 1017

Ion Ratio Lower Upper

64 100

66 19.4 28.9 43.3#



#8

Diethyl Ether

Concen: 2.888 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.02 min

Lab File: VF062601.D

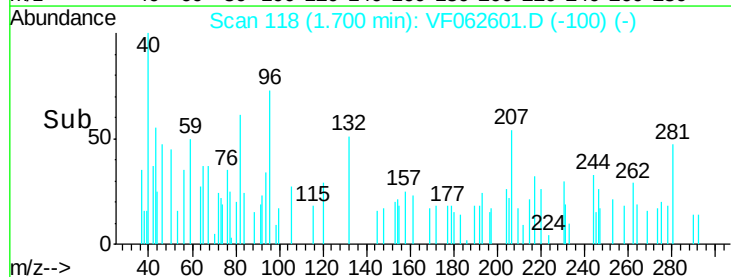
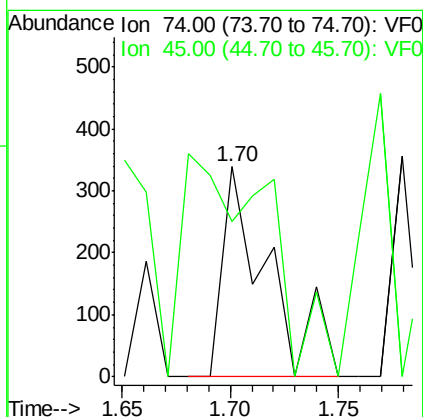
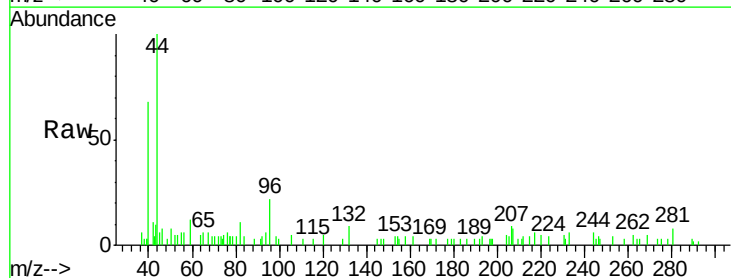
Acq: 15 May 2019 1:21

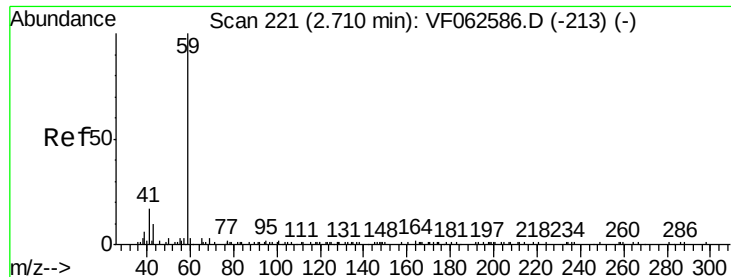
Tgt Ion: 74 Resp: 499

Ion Ratio Lower Upper

74 100

45 73.7 48.6 145.8

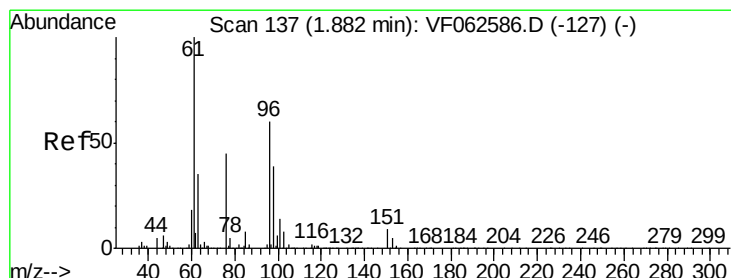
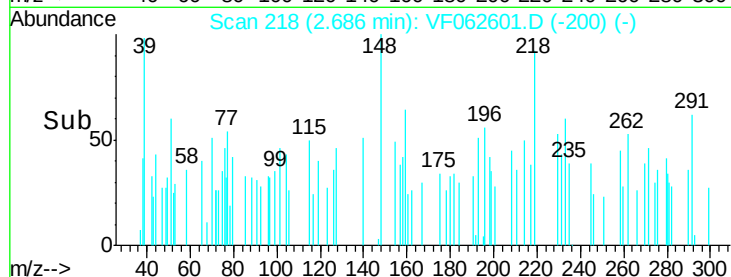
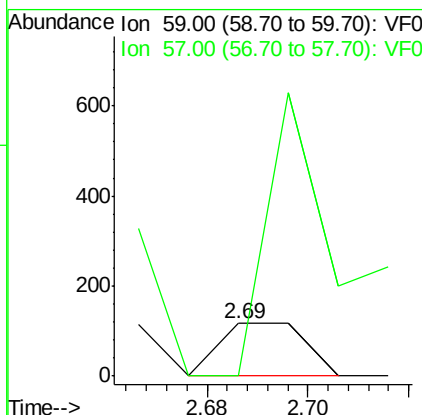
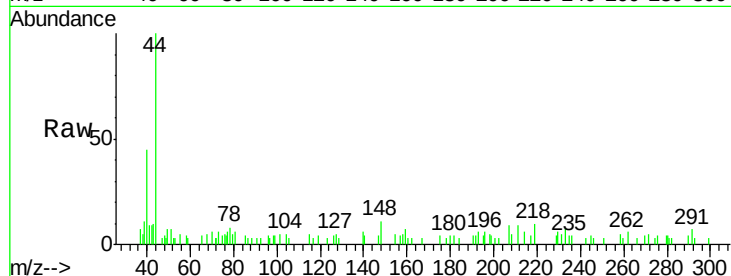




#11
Tert butyl alcohol
Concen: 6.121 ug/l
RT: 2.69 min Scan# 218
Delta R.T. -0.02 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

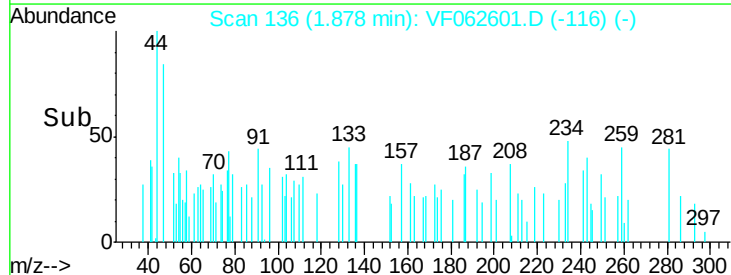
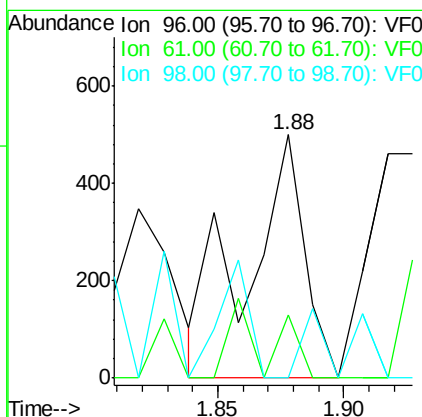
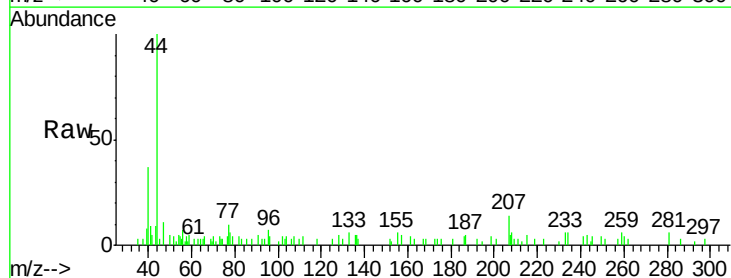
Instrument :
MSVOA_F
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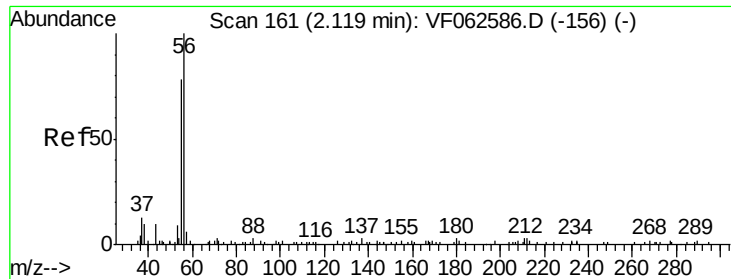
Tot Ion: 59 Resp: 138
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#12
1,1-Dichloroethene
Concen: 1.787 ug/l
RT: 1.88 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion: 96 Resp: 805
Ion Ratio Lower Upper
96 100
61 26.0 132.0 198.0#
98 0.0 51.3 76.9#





#13

Acrolein

Concen: 8.165 ug/l

RT: 2.11 min Scan# 160

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

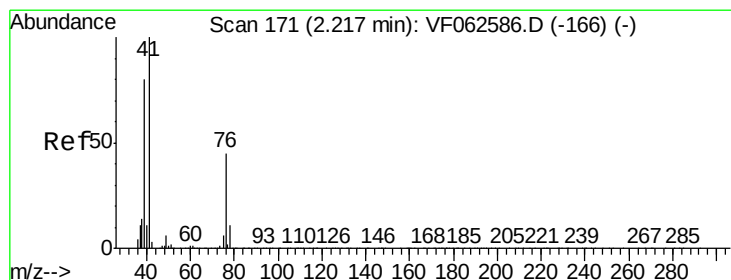
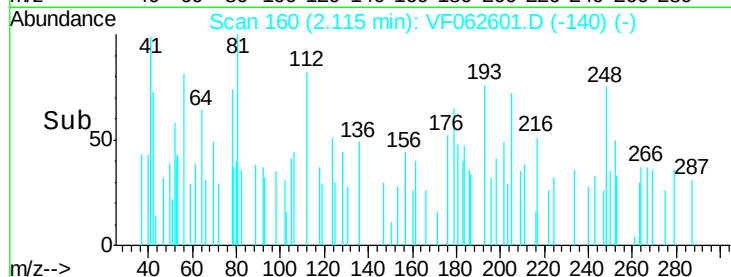
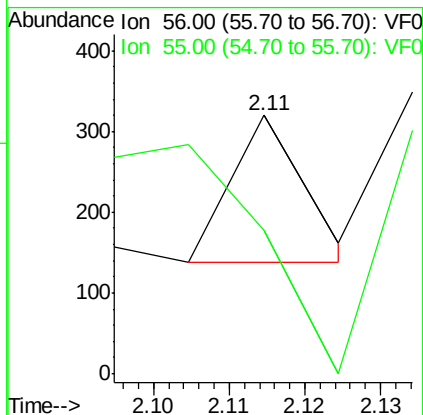
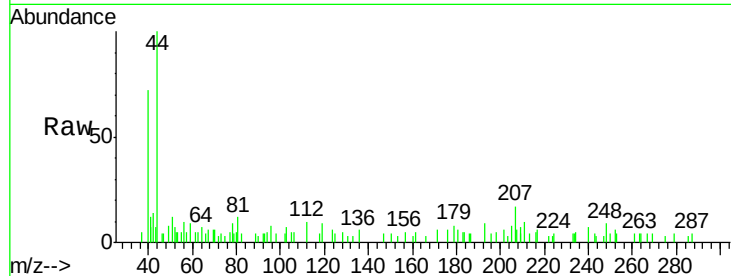
P021-SS008-0206-02RE

Tot Ion: 56 Resp: 122

Ion Ratio Lower Upper

56 100

55 55.6 64.6 96.8#



#14

Allyl chloride

Concen: 3.155 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

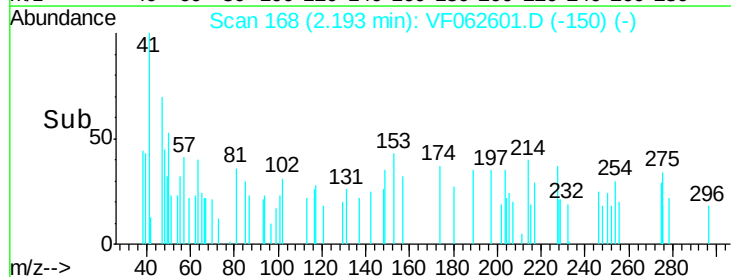
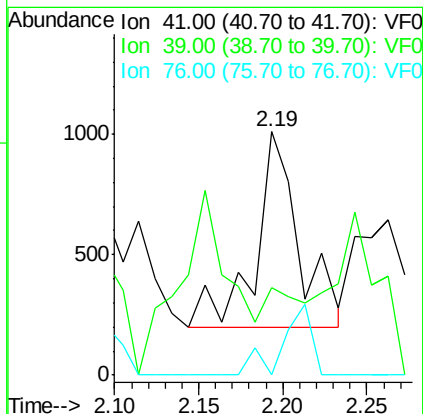
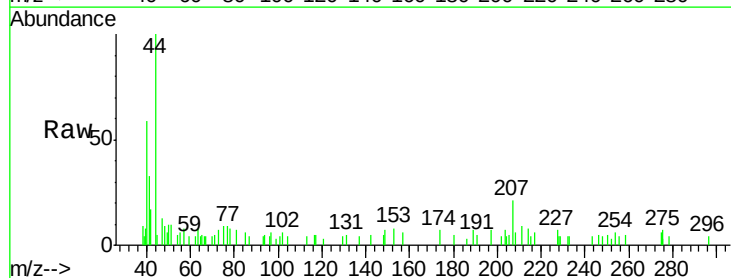
Tgt Ion: 41 Resp: 1454

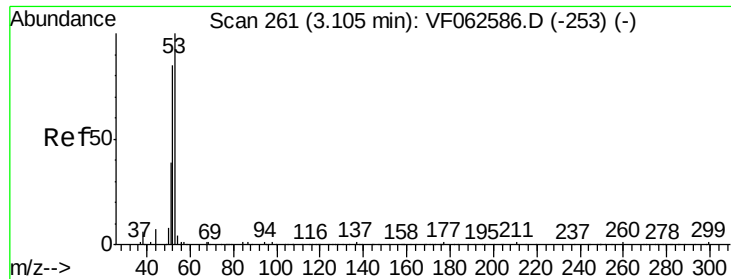
Ion Ratio Lower Upper

41 100

39 23.9 64.6 96.8#

76 0.0 36.1 54.1#





#15

Acrylonitrile

Concen: 7.650 ug/l

RT: 2.98 min Scan# 248

Delta R.T. -0.12 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

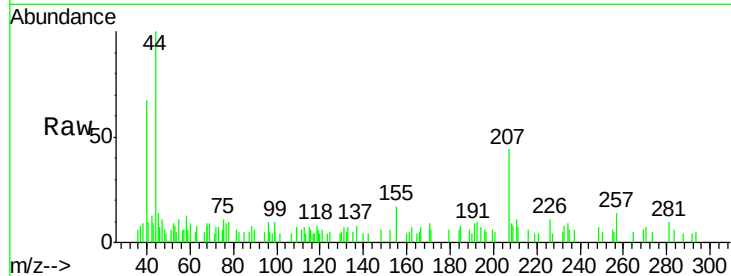
MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

Tot Ion: 53 Resp: 617

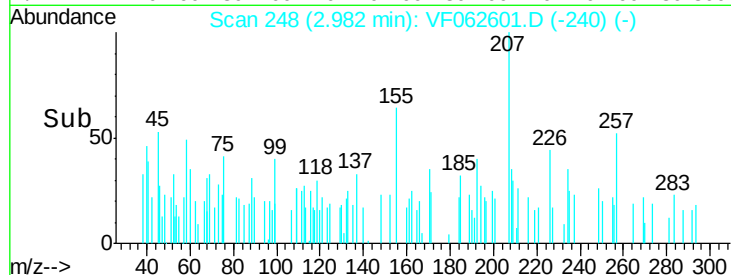
Ion	Ratio	Lower	Upper
53	100		
52	69.0	68.3	102.5
51	46.1	31.5	47.3



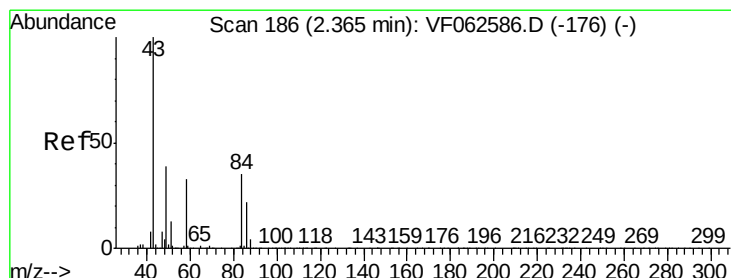
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 10.304 ug/l

RT: 2.22 min Scan# 171

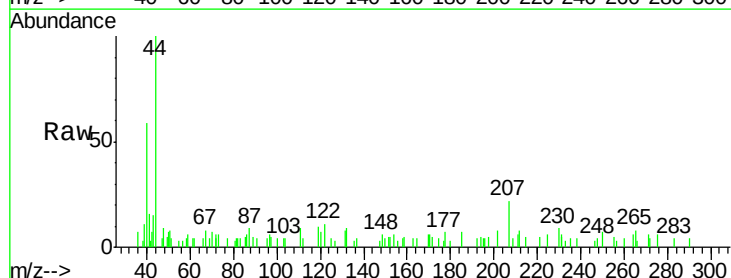
Delta R.T. -0.14 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

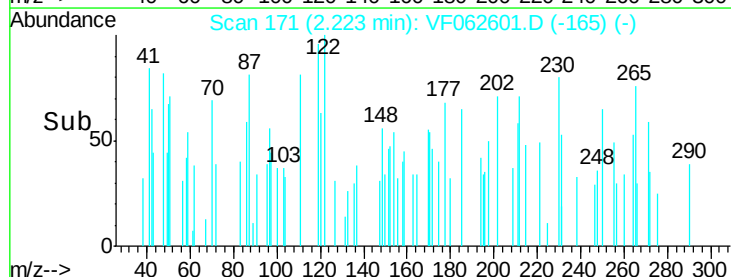
Tgt Ion: 43 Resp: 783

Ion	Ratio	Lower	Upper
43	100		
58	29.3	26.7	40.1

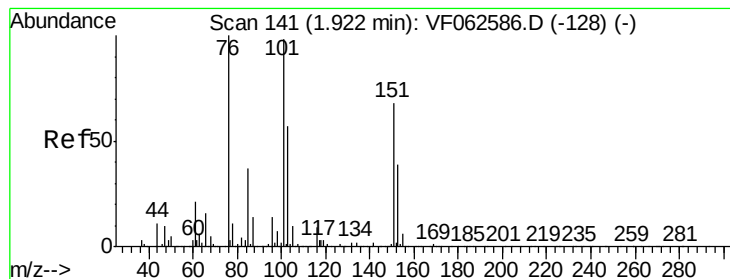


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.92 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

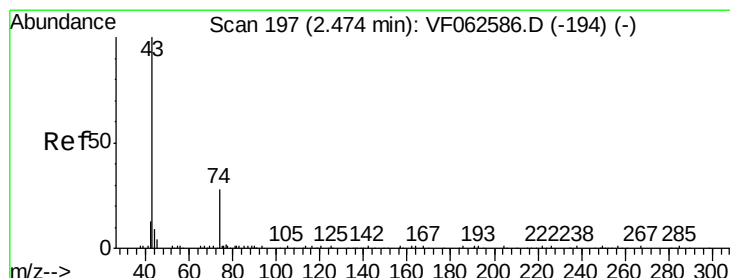
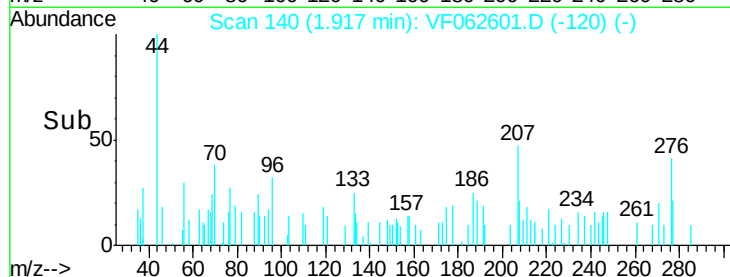
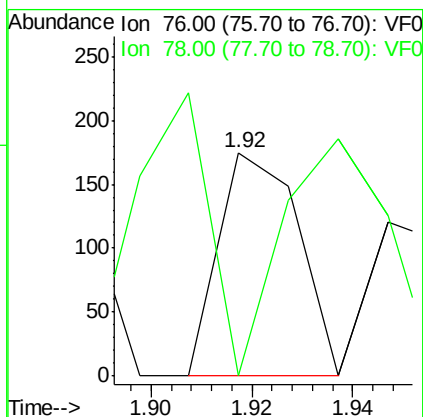
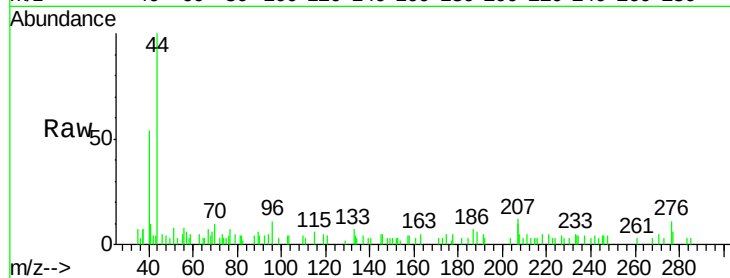
P021-SS008-0206-02RE

Tot Ion: 76 Resp: 192

Ion Ratio Lower Upper

76 100

78 0.0 9.0 13.4#



#18

Methyl Acetate

Concen: 2.365 ug/l

RT: 2.48 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062601.D

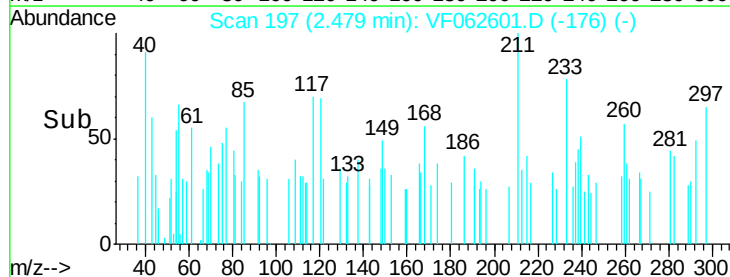
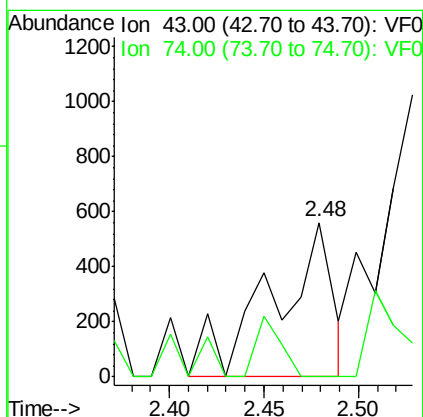
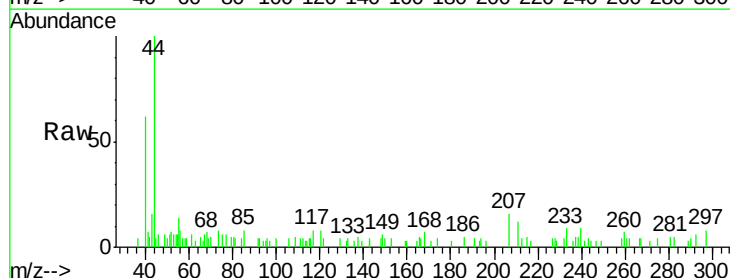
Acq: 15 May 2019 1:21

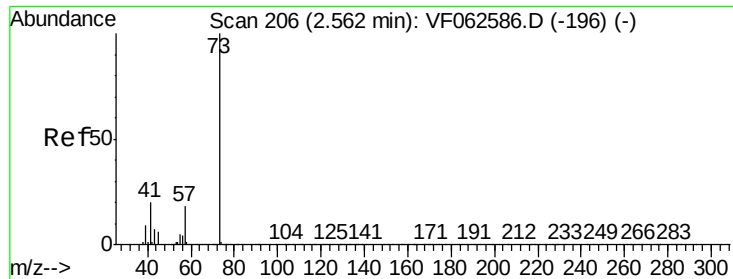
Tgt Ion: 43 Resp: 1245

Ion Ratio Lower Upper

43 100

74 0.0 21.4 32.0#



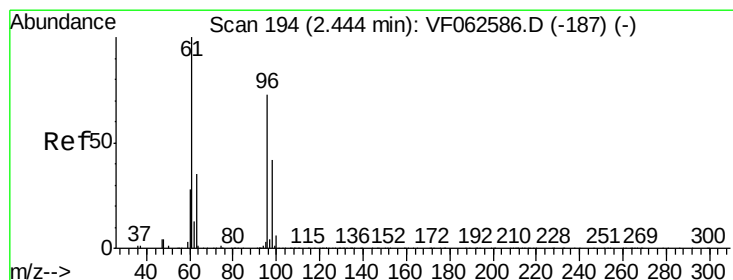
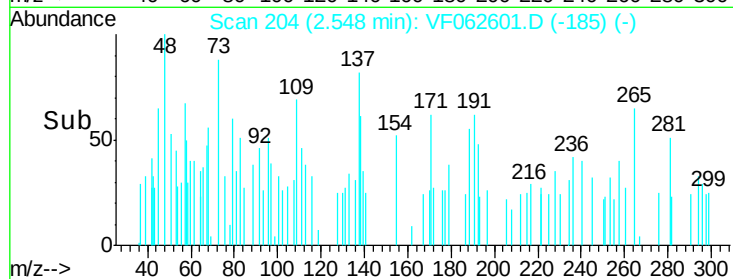
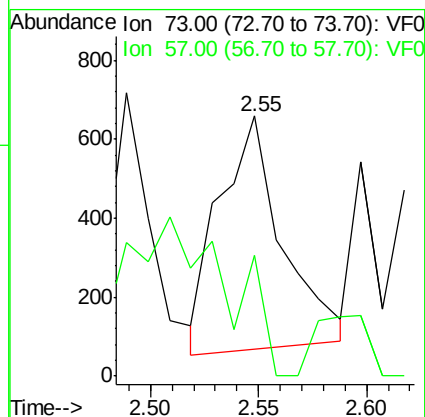
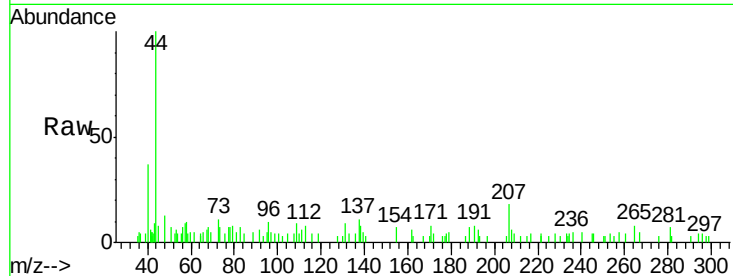


#19

Methyl tert-butyl Ether
 Concen: 1.497 ug/l
 RT: 2.55 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

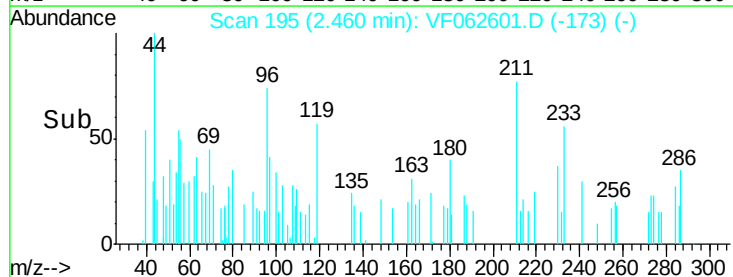
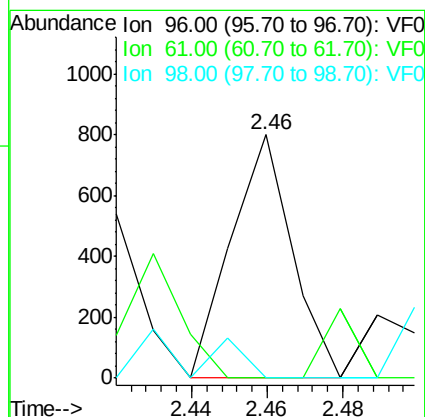
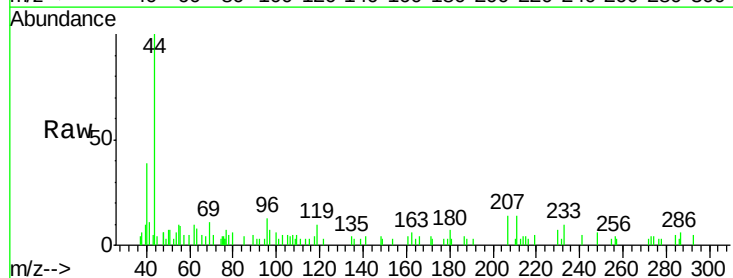
Tot Ion: 73 Resp: 1201
 Ion Ratio Lower Upper
 73 100
 57 46.5 14.6 22.0#

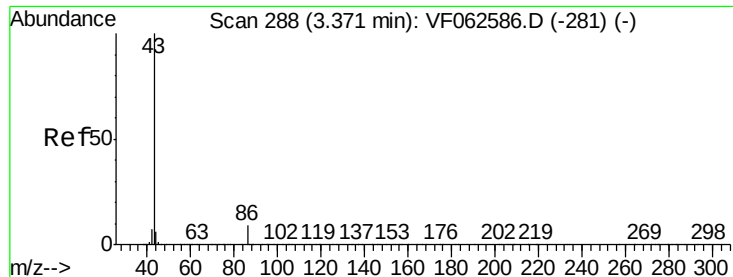


#21

trans-1,2-Dichloroethene
 Concen: 1.954 ug/l
 RT: 2.46 min Scan# 195
 Delta R.T. 0.02 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion: 96 Resp: 887
 Ion Ratio Lower Upper
 96 100
 61 0.0 109.2 163.8#
 98 0.0 46.3 69.5#





#23

Vinyl Acetate

Concen: 1.129 ug/l

RT: 3.39 min Scan# 289

Delta R.T. 0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

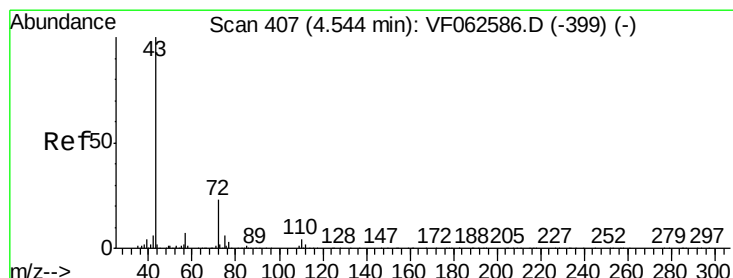
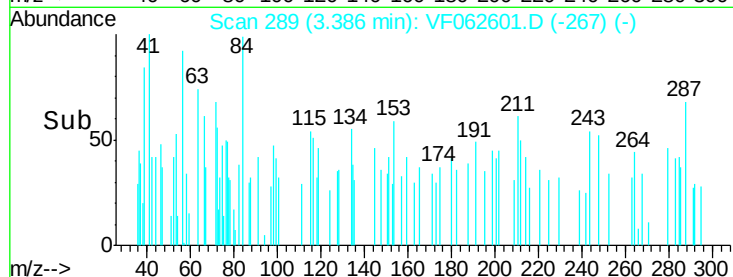
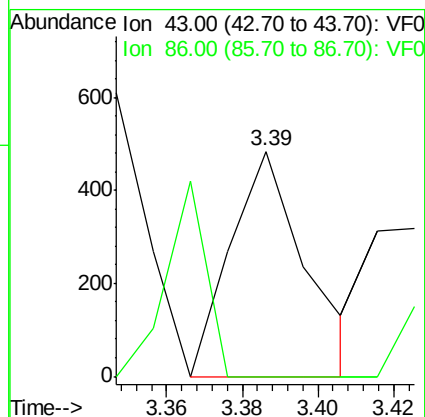
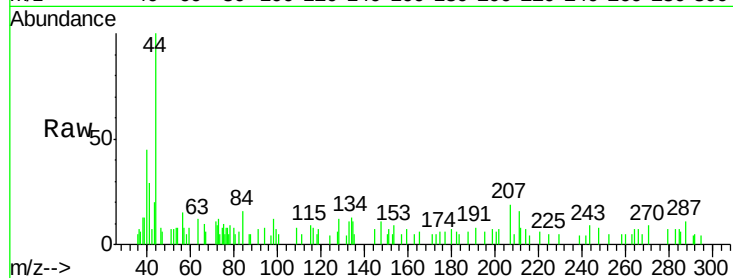
P021-SS008-0206-02RE

Tot Ion: 43 Resp: 662

Ion Ratio Lower Upper

43 100

86 0.0 7.1 10.7#



#25

2-Butanone

Concen: 4.302 ug/l

RT: 4.61 min Scan# 413

Delta R.T. 0.06 min

Lab File: VF062601.D

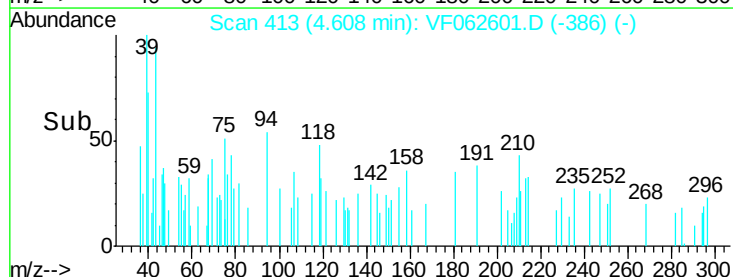
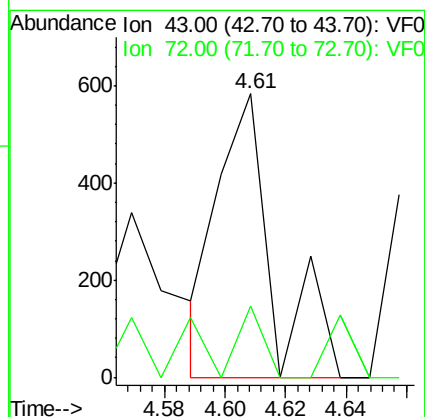
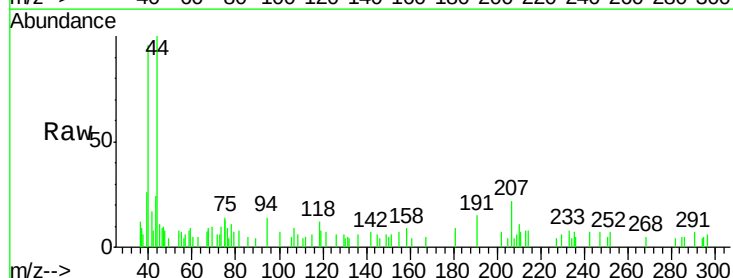
Acq: 15 May 2019 1:21

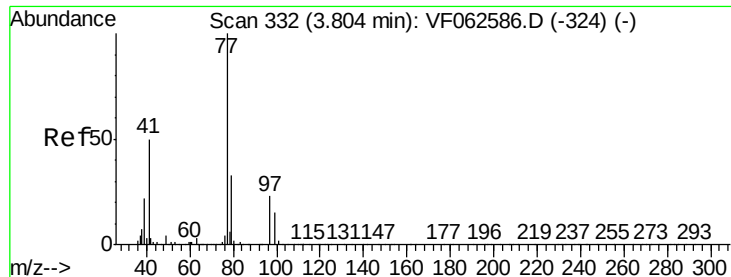
Tgt Ion: 43 Resp: 739

Ion Ratio Lower Upper

43 100

72 25.0 18.5 27.7

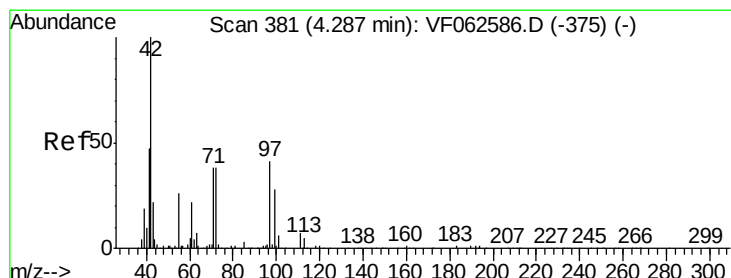
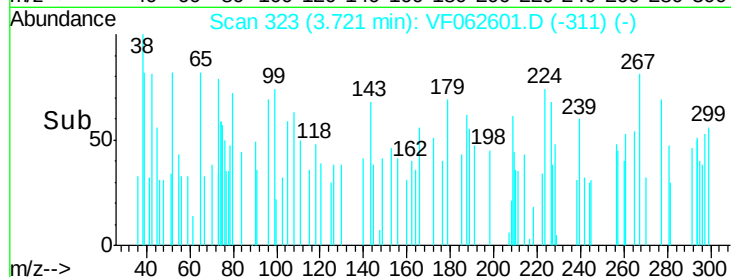
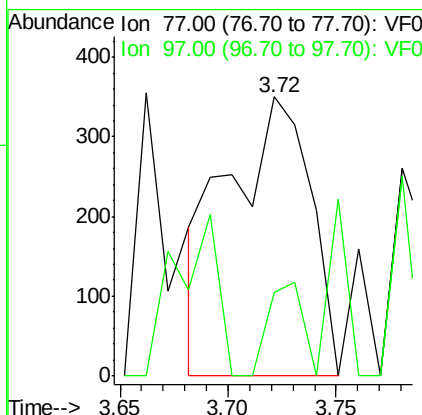
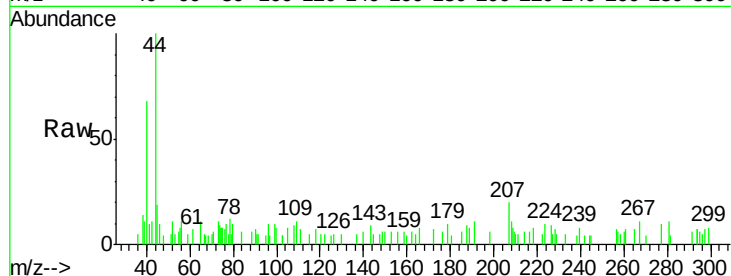




#26
 2,2-Dichloropropane
 Concen: 2.133 ug/l
 RT: 3.72 min Scan# 323
 Delta R.T. -0.08 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

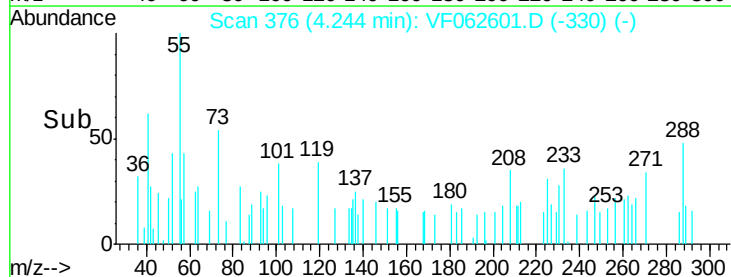
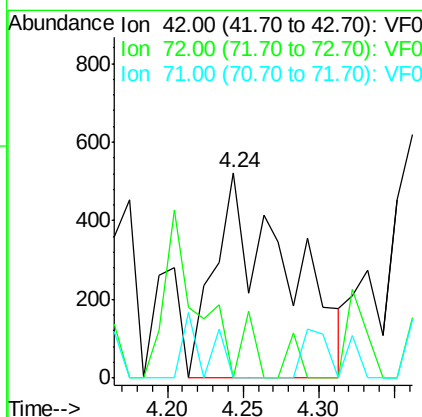
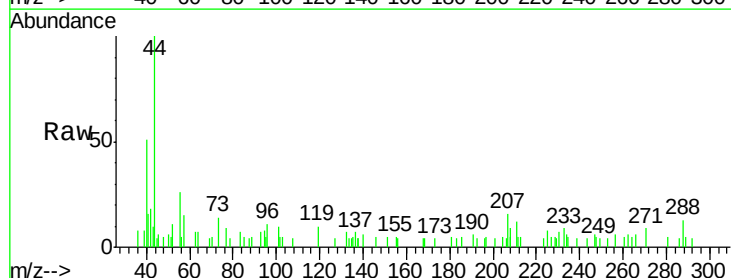
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

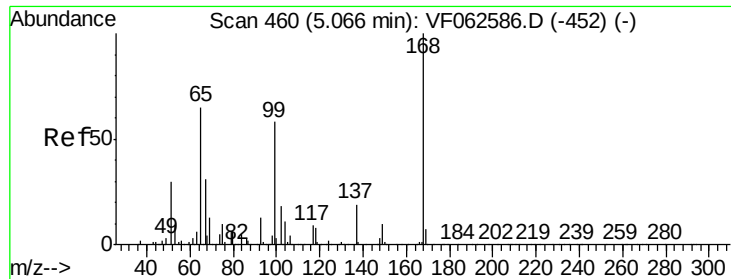
Tot Ion: 77 Resp: 939
 Ion Ratio Lower Upper
 77 100
 97 30.0 12.0 36.0



#29
 Tetrahydrofuran
 Concen: 23.770 ug/l
 RT: 4.24 min Scan# 376
 Delta R.T. -0.04 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion: 42 Resp: 1728
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.0 51.0#
 71 0.0 32.8 49.2#

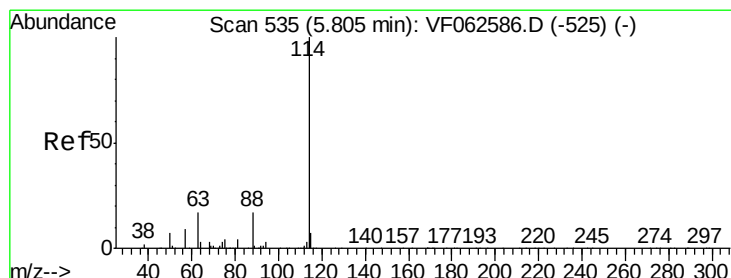
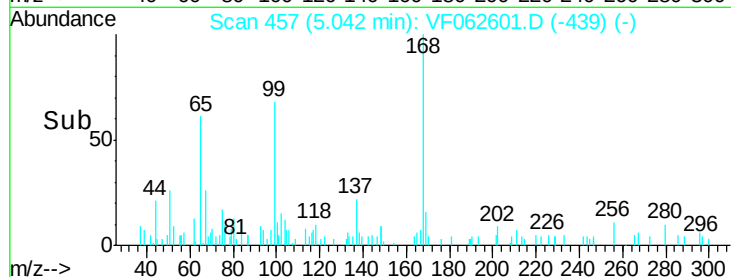
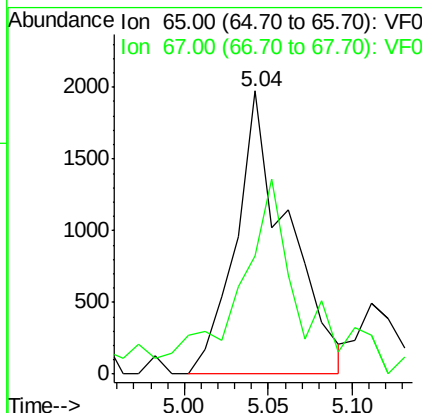
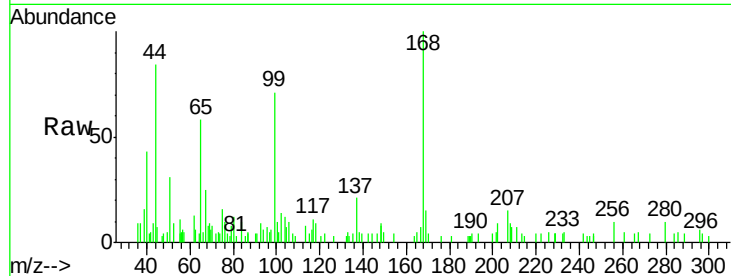




#33
 1,2-Dichloroethane-d4
 Concen: 11.301 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. -0.02 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

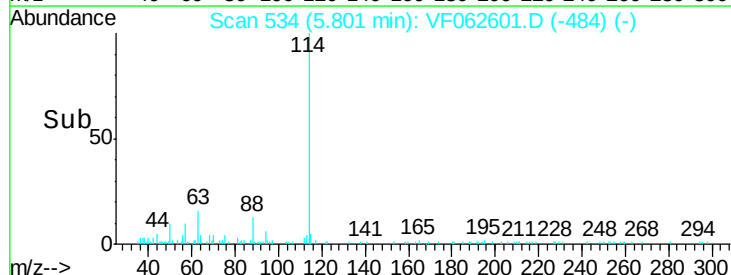
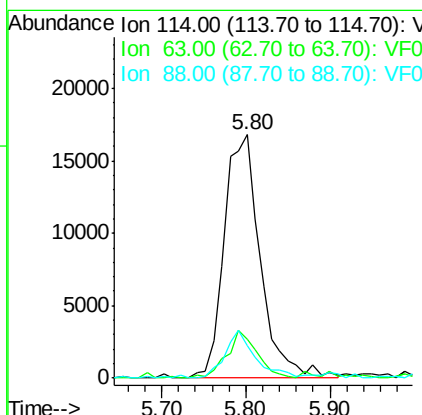
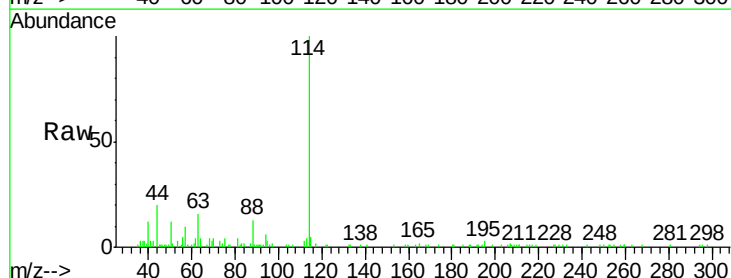
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

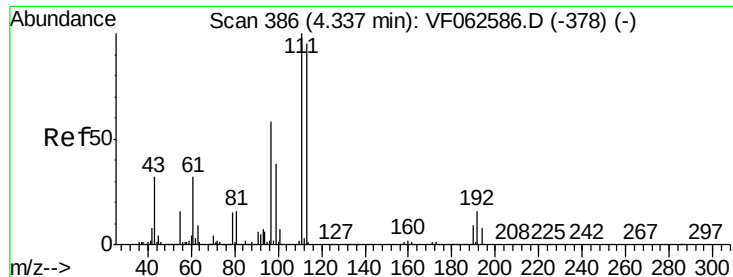
Tot Ion: 65 Resp: 4232
 Ion Ratio Lower Upper
 65 100
 67 42.0 0.0 116.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. -0.00 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion: 114 Resp: 50280
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 34.6
 88 13.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 25.538 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

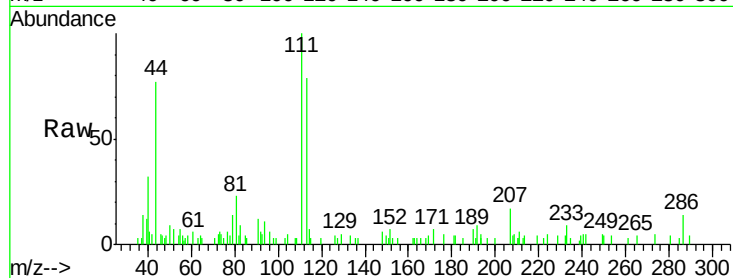
Tot Ion:113 Resp: 9557

Ion Ratio Lower Upper

113 100

111 126.5 83.9 125.9#

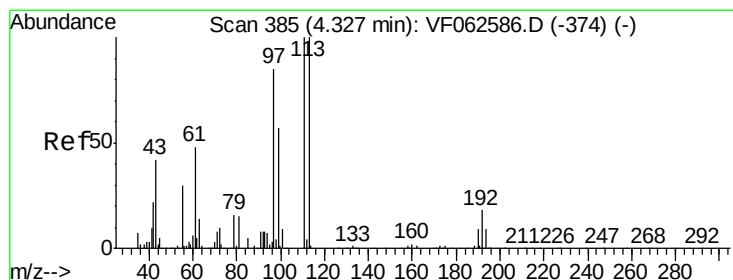
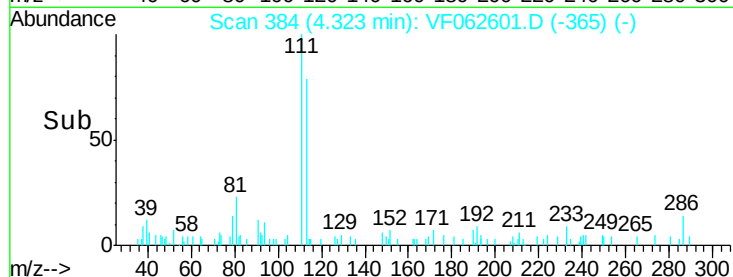
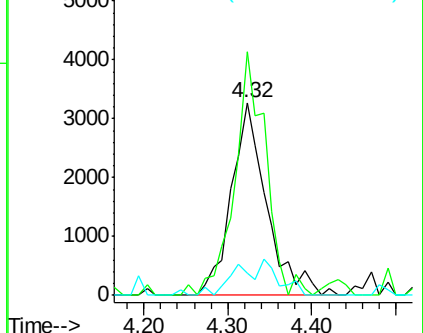
192 11.8 13.7 20.5#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: 4.245 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

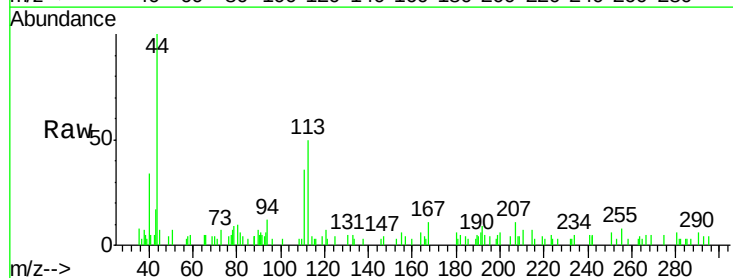
Tgt Ion: 43 Resp: 759

Ion Ratio Lower Upper

43 100

61 0.0 88.6 132.8#

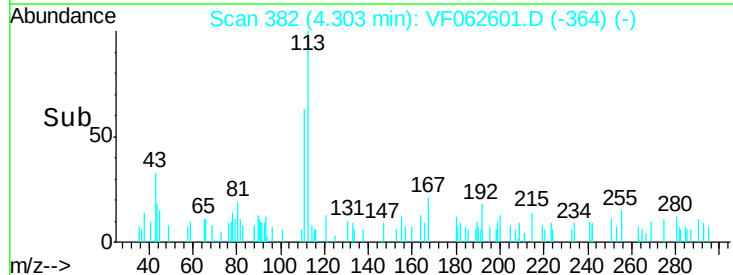
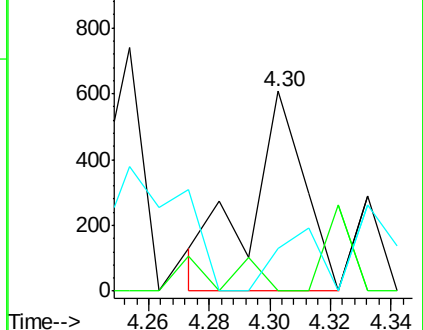
70 21.1 8.3 12.5#

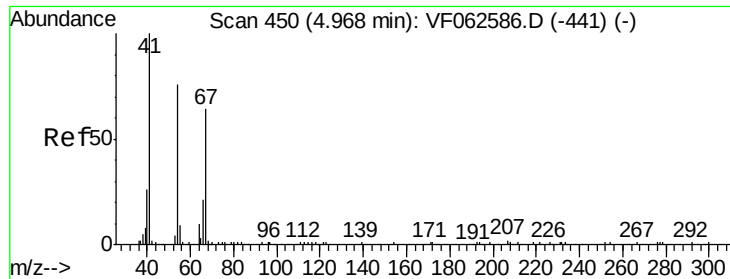


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#41

Methacrylonitrile

Concen: 6.993 ug/l

RT: 4.94 min Scan# 447

Delta R.T. -0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

Tot Ion: 41 Resp: 708

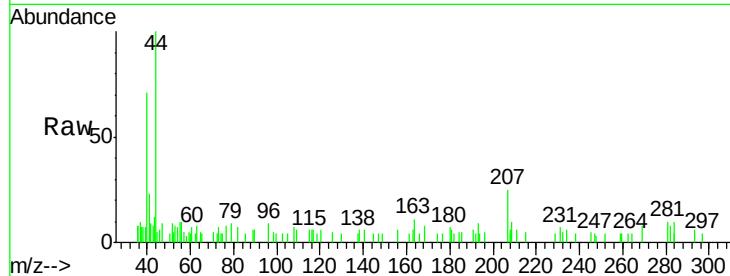
Ion Ratio Lower Upper

41 100

39 31.0 40.8 61.2#

67 0.0 50.2 75.2#

52 57.3 36.8 55.2#

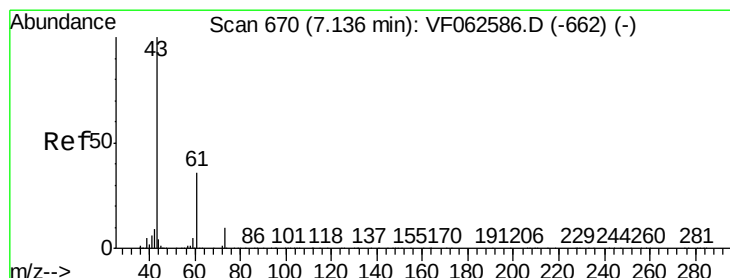
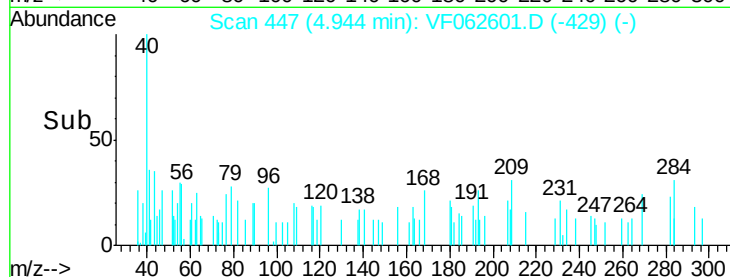
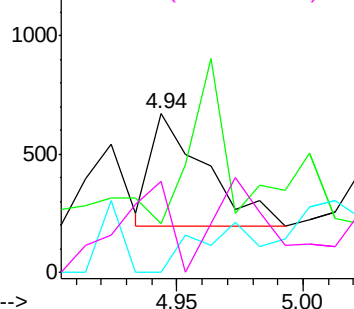


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 2.439 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

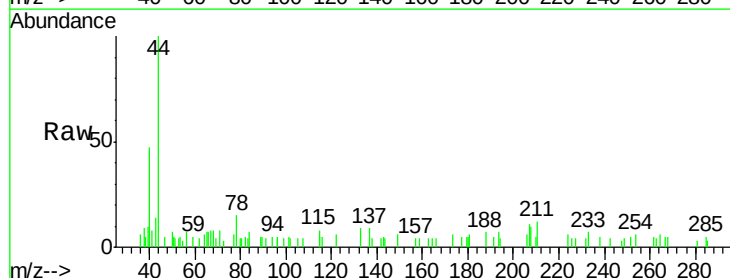
Tgt Ion: 43 Resp: 516

Ion Ratio Lower Upper

43 100

61 0.0 28.5 42.7#

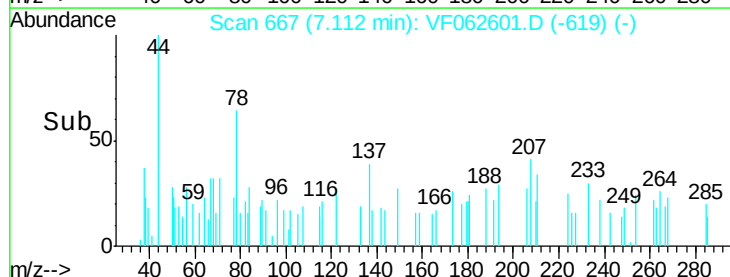
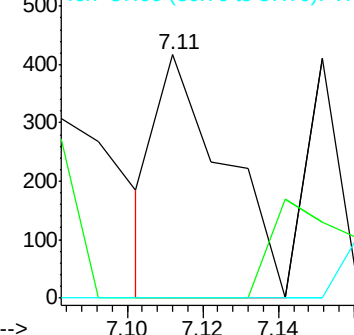
87 0.0 0.4 0.6#

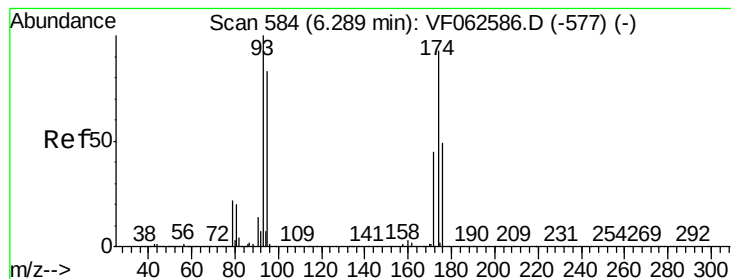


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#46

Dibromomethane

Concen: 3.508 ug/l

RT: 6.30 min Scan# 585

Delta R.T. 0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

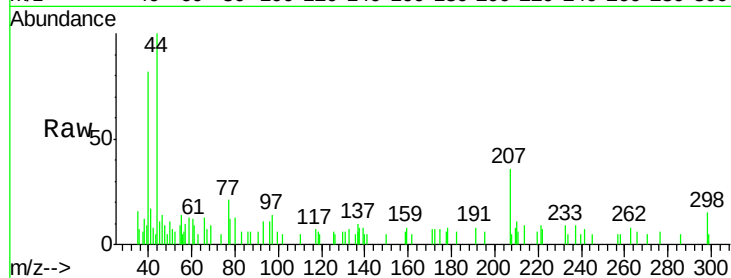
Tot Ion: 93 Resp: 611

Ion Ratio Lower Upper

93 100

95 0.0 66.9 100.3#

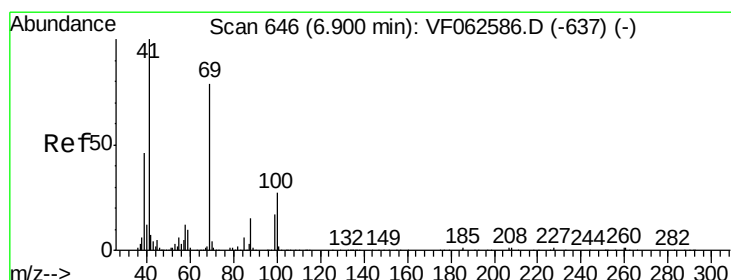
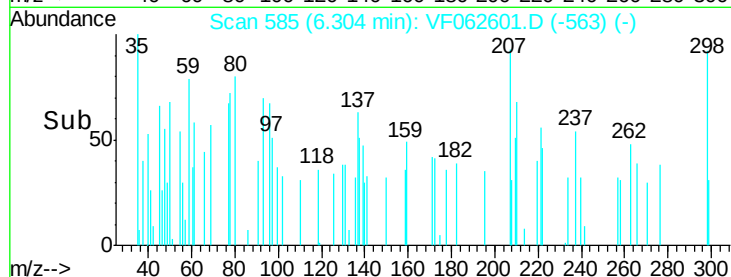
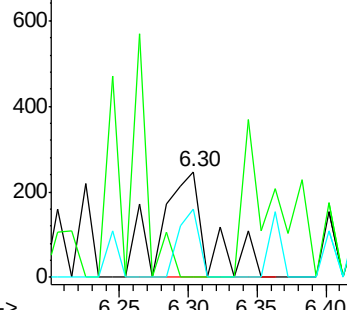
174 64.8 74.6 112.0#



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



#48

Methyl methacrylate

Concen: 3.799 ug/l

RT: 6.89 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

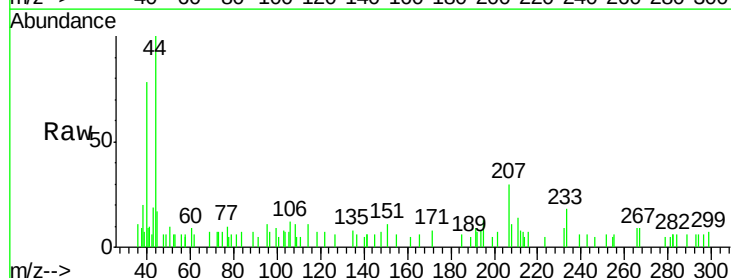
Tgt Ion: 41 Resp: 440

Ion Ratio Lower Upper

41 100

69 36.5 63.0 94.6#

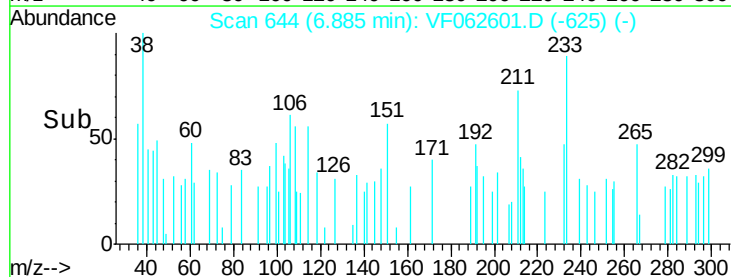
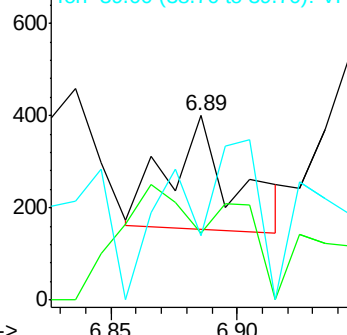
39 34.8 37.6 56.4#

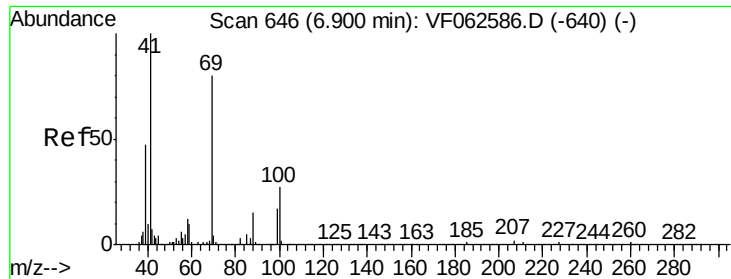


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

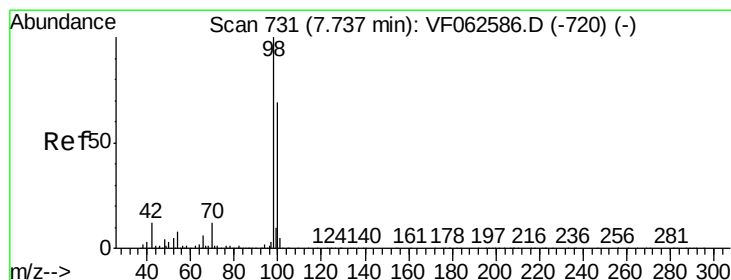
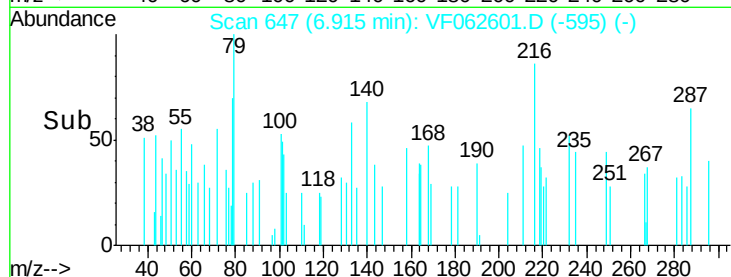
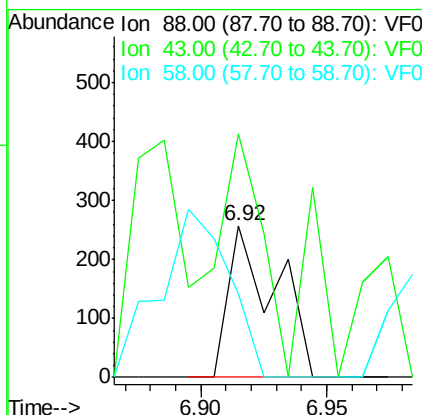
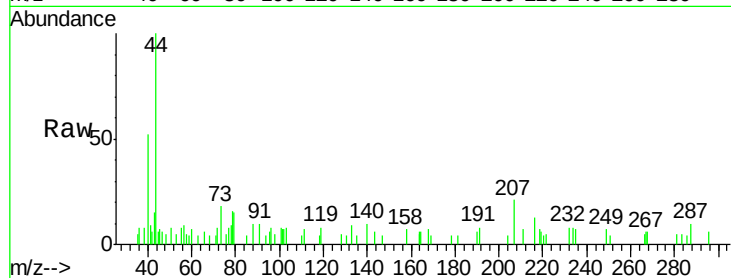




#49
1,4-Dioxane
Concen: 220.177 ug/l
RT: 6.92 min Scan# 647
Delta R.T. 0.02 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

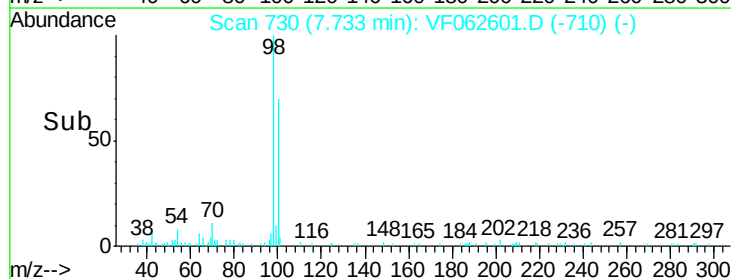
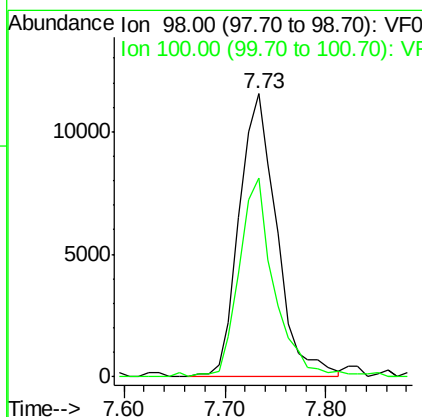
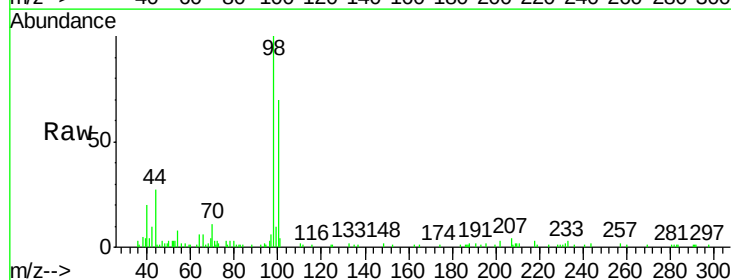
Instrument :
MSVOA_F
ClientSampleId :
P021-SS008-0206-02RE

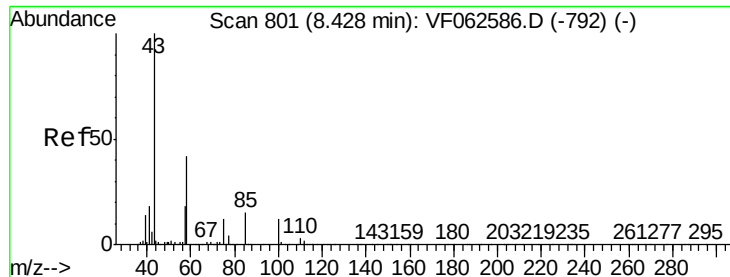
Tot Ion: 88 Resp: 336
Ion Ratio Lower Upper
88 100
43 160.1 28.8 43.2#
58 55.4 60.6 90.8#



#50
Toluene-d8
Concen: 33.987 ug/l
RT: 7.73 min Scan# 730
Delta R.T. -0.00 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion: 98 Resp: 29971
Ion Ratio Lower Upper
98 100
100 70.1 55.4 83.0





#51

4-Methyl-2-Pentanone

Concen: 5.186 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

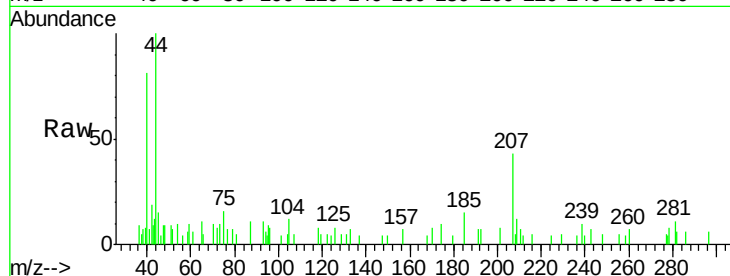
P021-SS008-0206-02RE

Tot Ion: 43 Resp: 804

Ion Ratio Lower Upper

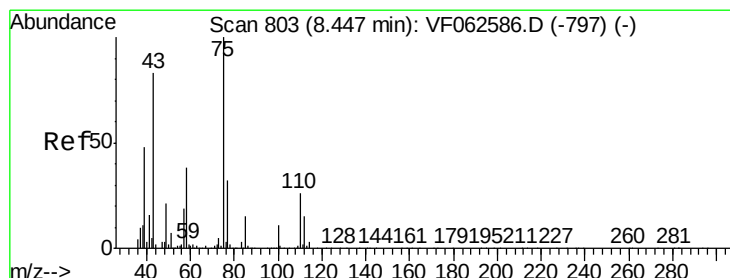
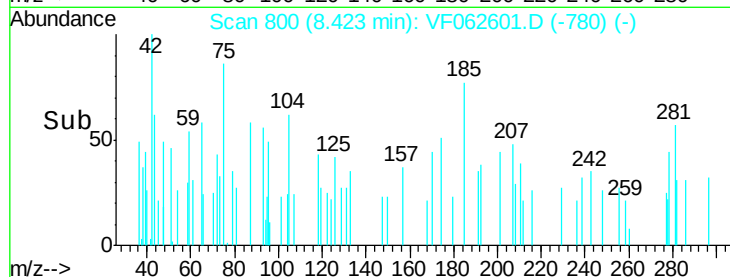
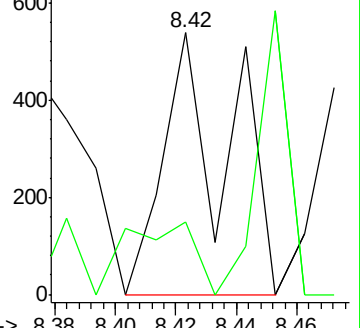
43 100

58 27.5 33.6 50.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#53

t-1,3-Dichloropropene

Concen: 1.852 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.02 min

Lab File: VF062601.D

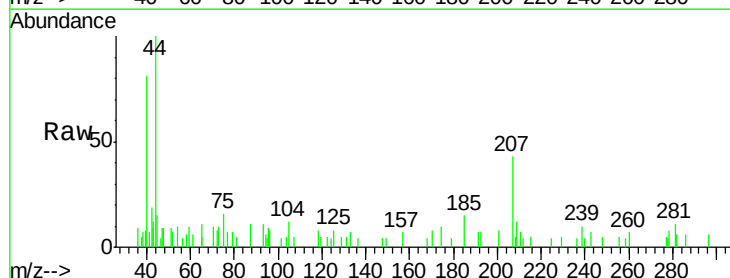
Acq: 15 May 2019 1:21

Tgt Ion: 75 Resp: 548

Ion Ratio Lower Upper

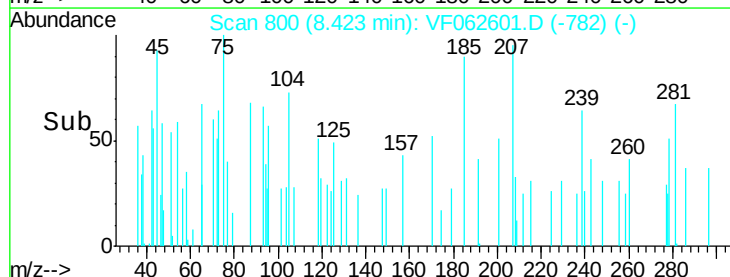
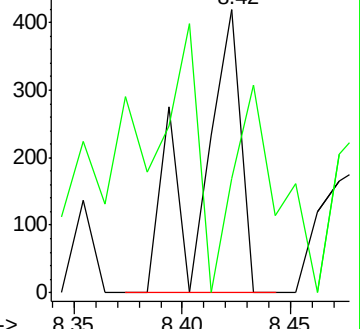
75 100

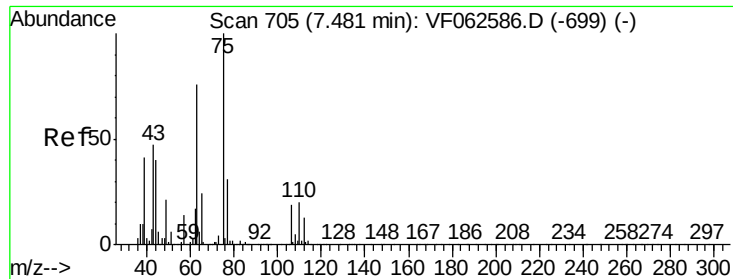
77 40.3 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 1.062 ug/l

RT: 7.46 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

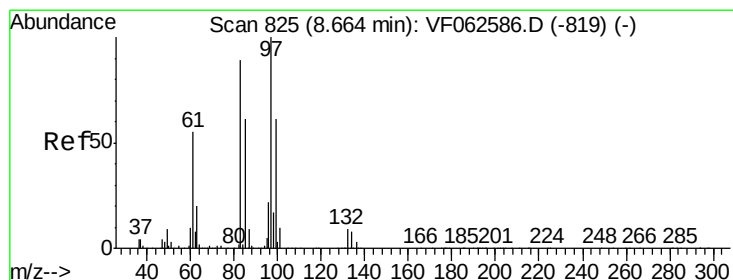
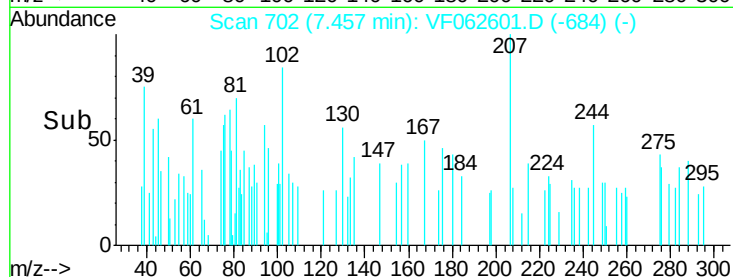
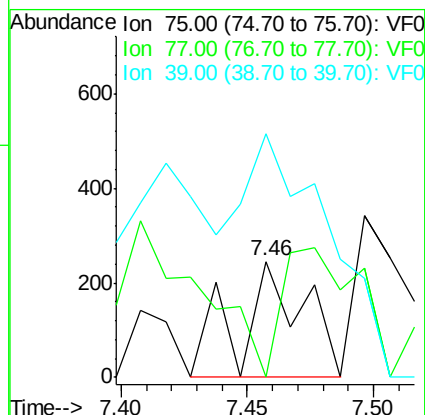
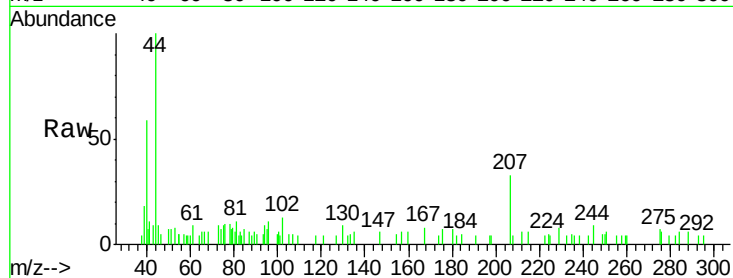
Tot Ion: 75 Resp: 444

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 209.3 32.8 49.2#



#55

1,1,2-Trichloroethane

Concen: 1.333 ug/l

RT: 8.67 min Scan# 825

Delta R.T. 0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Tgt Ion: 97 Resp: 248

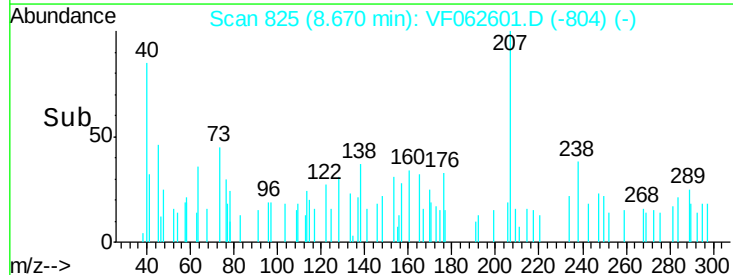
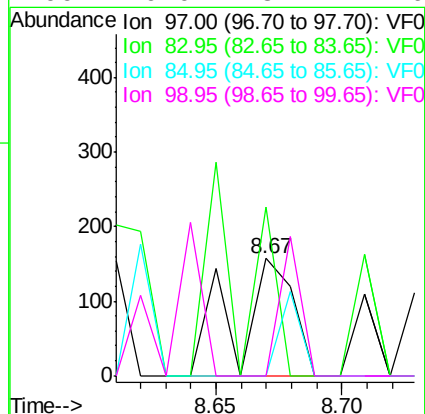
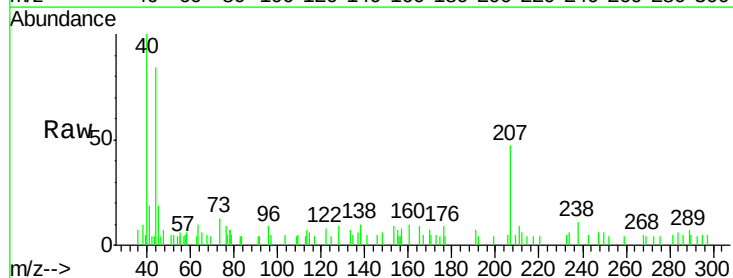
Ion Ratio Lower Upper

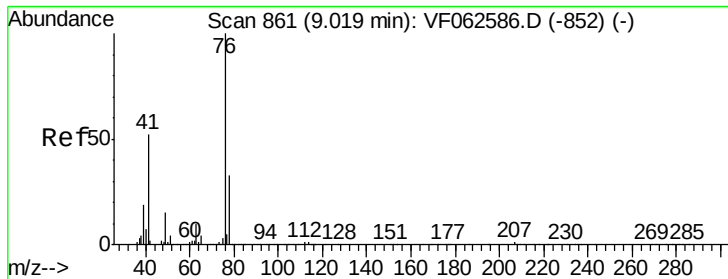
97 100

83 144.6 71.3 106.9#

85 0.0 48.9 73.3#

99 0.0 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 1.036 ug/l

RT: 9.03 min Scan# 862

Delta R.T. 0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

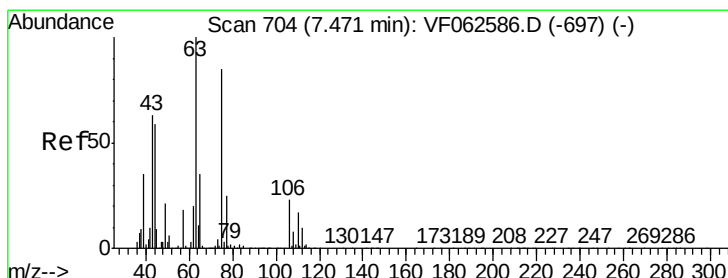
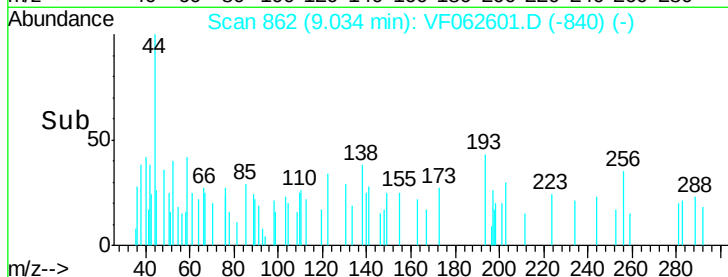
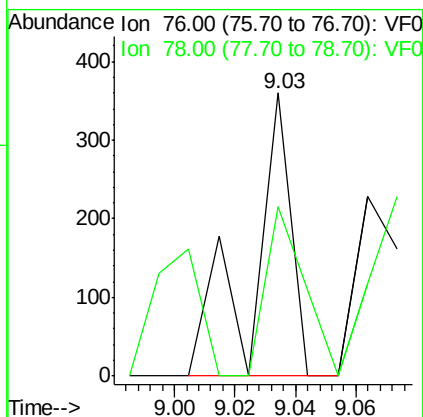
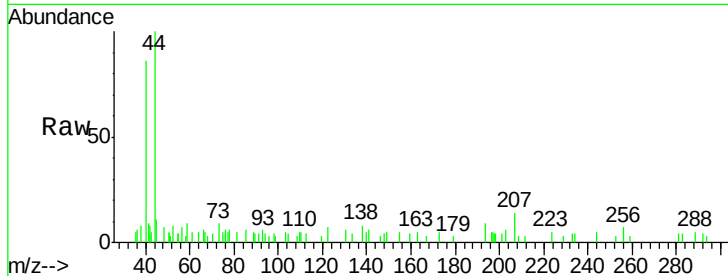
P021-SS008-0206-02RE

Tot Ion: 76 Resp: 318

Ion Ratio Lower Upper

76 100

78 59.7 26.4 39.6#



#58

2-Chloroethyl Vinyl ether

Concen: 1.912 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF062601.D

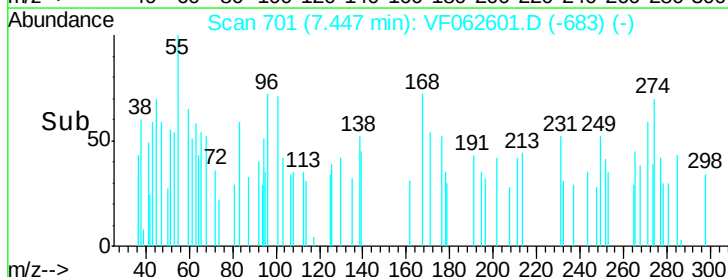
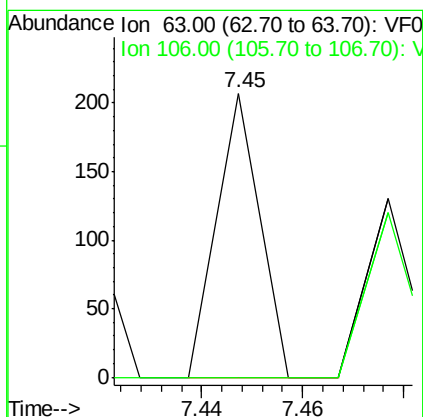
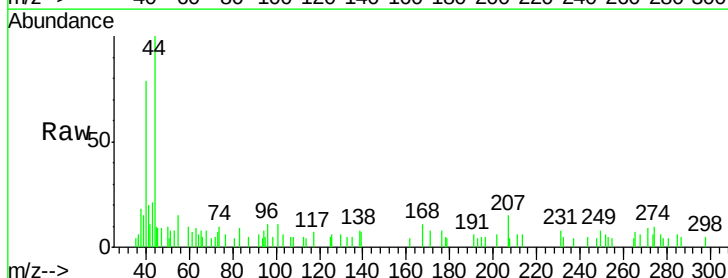
Acq: 15 May 2019 1:21

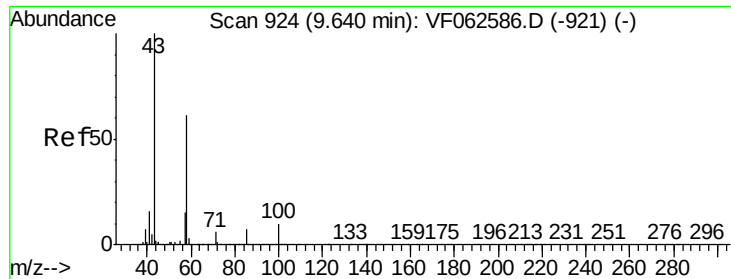
Tgt Ion: 63 Resp: 122

Ion Ratio Lower Upper

63 100

106 0.0 18.0 27.0#

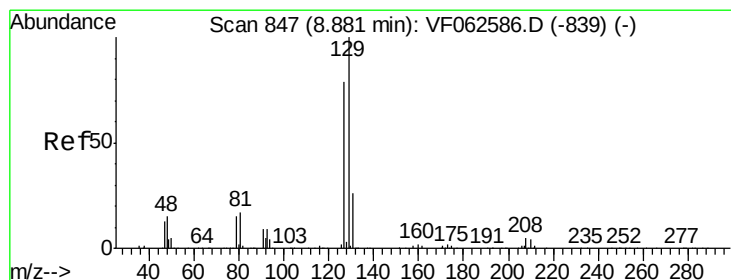
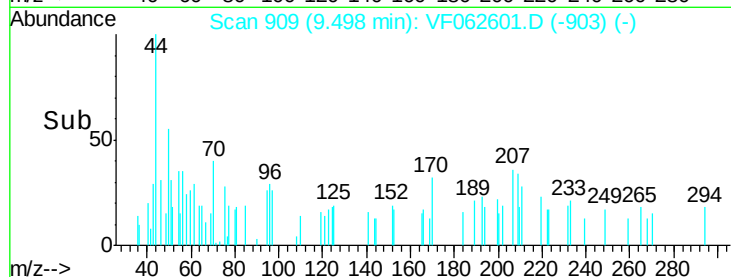
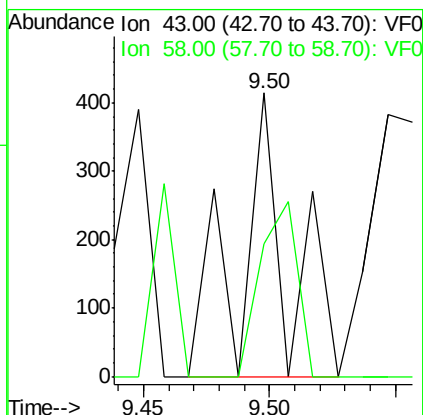
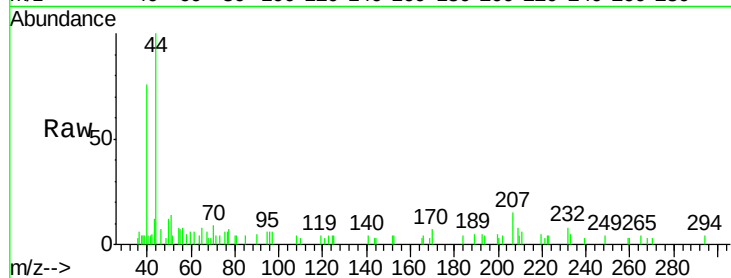




#59
2-Hexanone
Concen: 5.548 ug/l
RT: 9.50 min Scan# 909
Delta R.T. -0.14 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

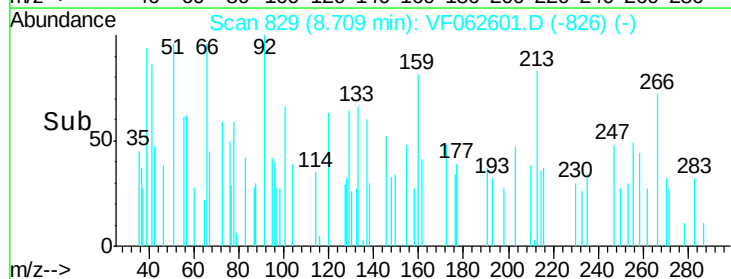
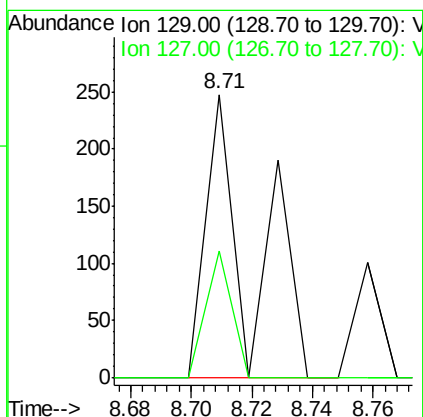
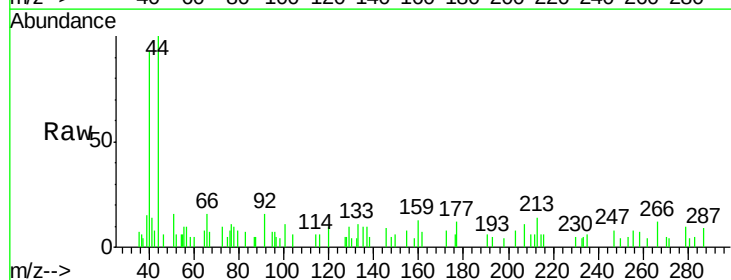
Instrument :
MSVOA_F
ClientSampleId :
P021-SS008-0206-02RE

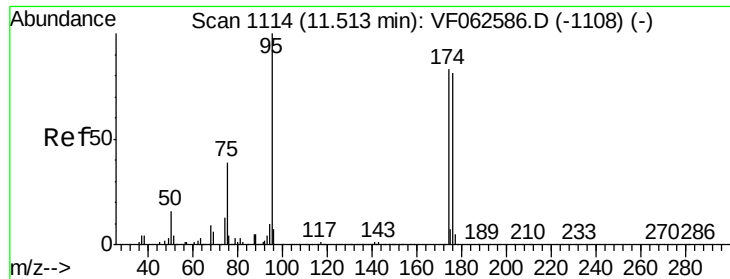
Tot Ion: 43.00 Resp: 568
Ion Ratio Lower Upper
43 100
58 46.9 28.7 86.3



#60
Dibromochloromethane
Concen: 1.096 ug/l
RT: 8.71 min Scan# 829
Delta R.T. -0.17 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion: 129 Resp: 259
Ion Ratio Lower Upper
129 100
127 44.8 39.3 117.9





#62

4-Bromofluorobenzene

Concen: 9.033 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

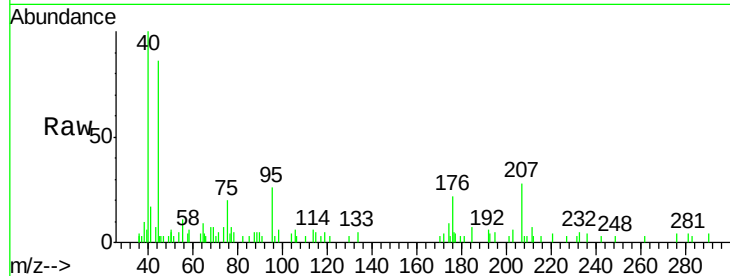
Tot Ion: 95 Resp: 2782

Ion Ratio Lower Upper

95 100

174 45.6 0.0 166.6

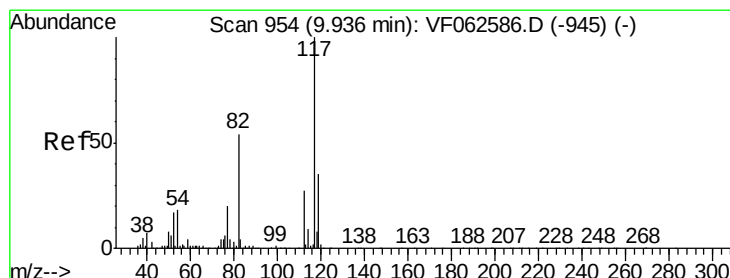
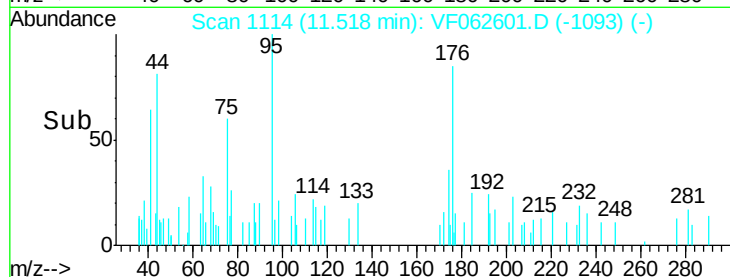
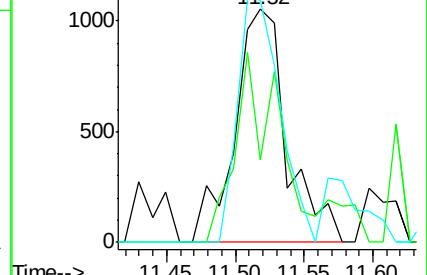
176 103.9 0.0 161.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

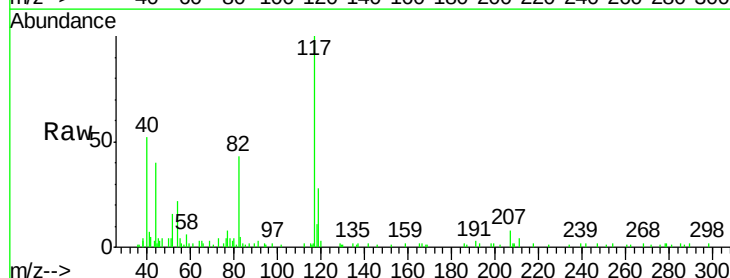
Tgt Ion: 117 Resp: 22189

Ion Ratio Lower Upper

117 100

82 43.0 43.4 65.0#

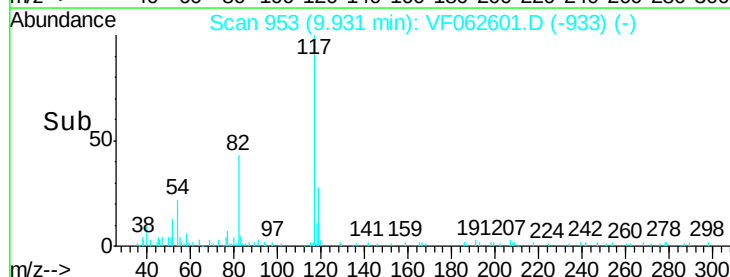
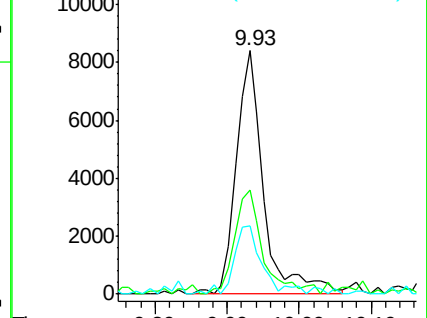
119 28.2 27.7 41.5

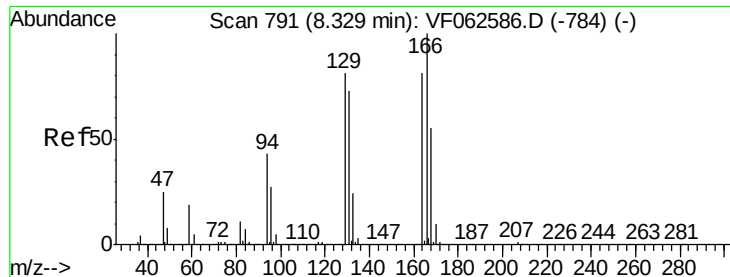


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 1.105 ug/l

RT: 8.28 min Scan# 785

Delta R.T. -0.05 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

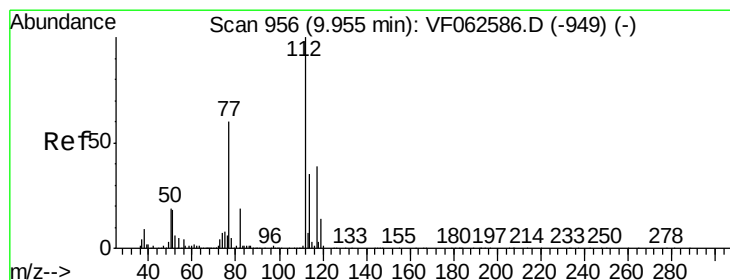
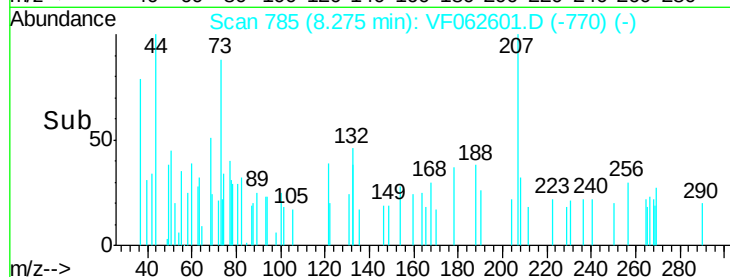
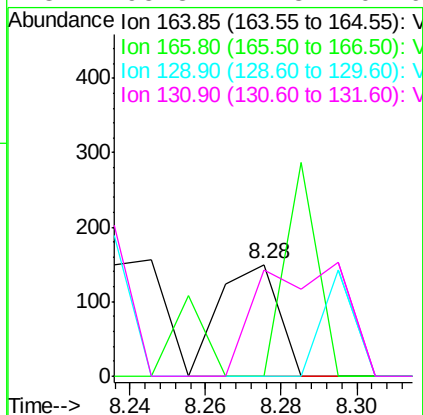
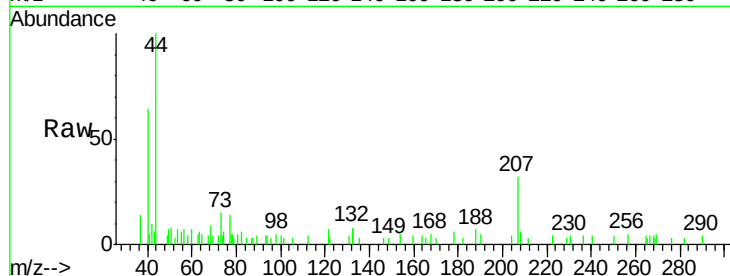
Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

Tot Ion:	164	Resp:	162
Ion	Ratio	Lower	Upper
164	100		
166	0.0	98.6	148.0#
129	0.0	80.2	120.4#
131	95.3	71.8	107.6



#65

Chlorobenzene

Concen: 1.457 ug/l

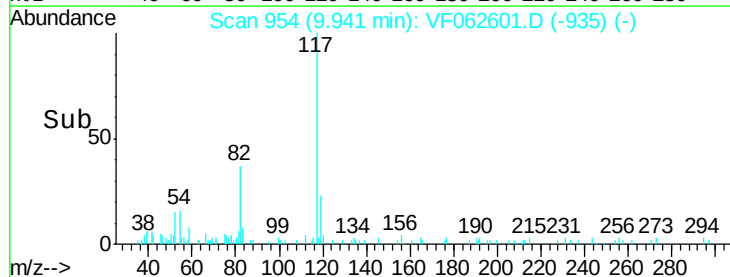
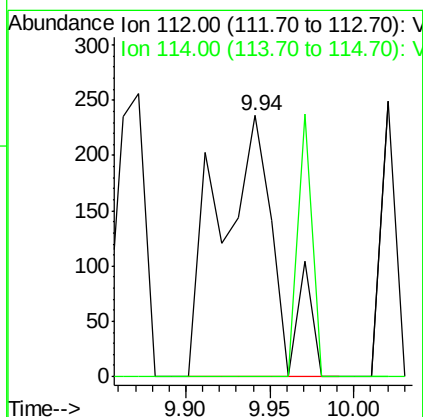
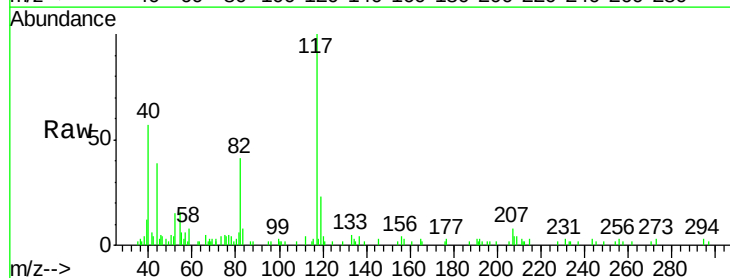
RT: 9.94 min Scan# 954

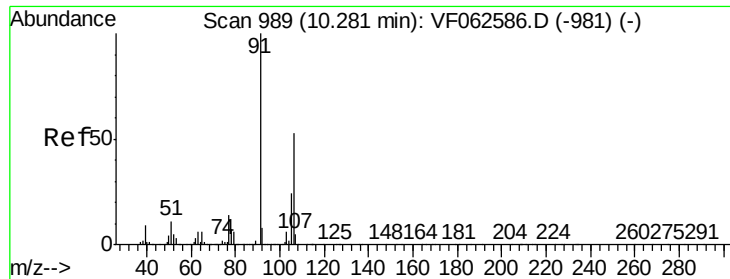
Delta R.T. -0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Tgt Ion:	112	Resp:	562
Ion	Ratio	Lower	Upper
112	100		
114	0.0	27.9	41.9#

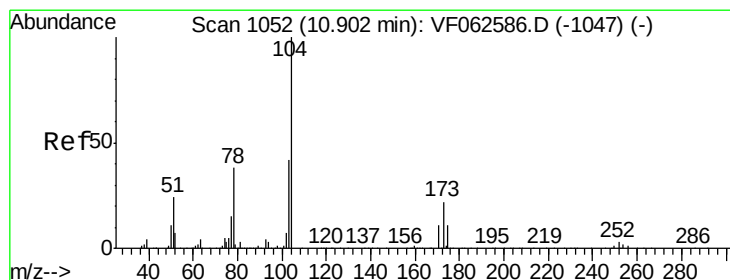
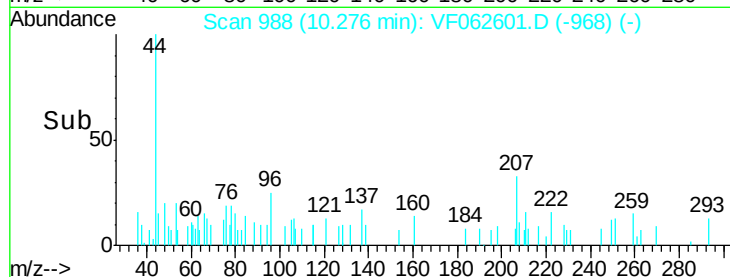
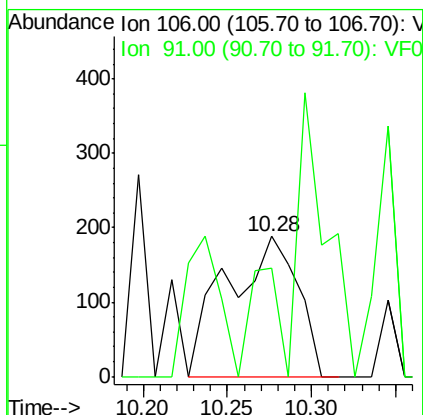
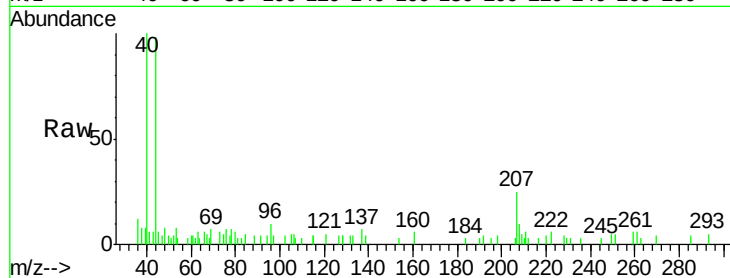




#68
m/p-Xvlenes
Concen: 2.264 ug/l
RT: 10.28 min Scan# 988
Delta R.T. -0.00 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

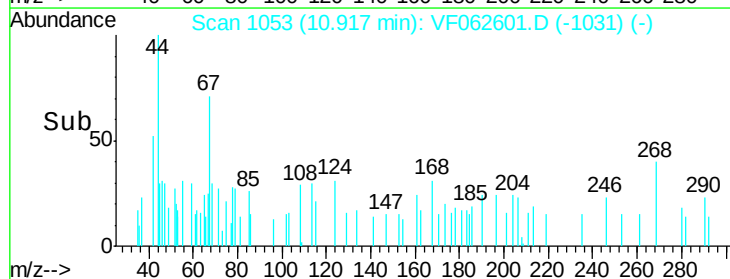
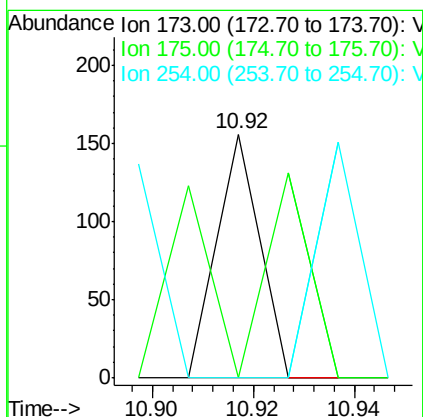
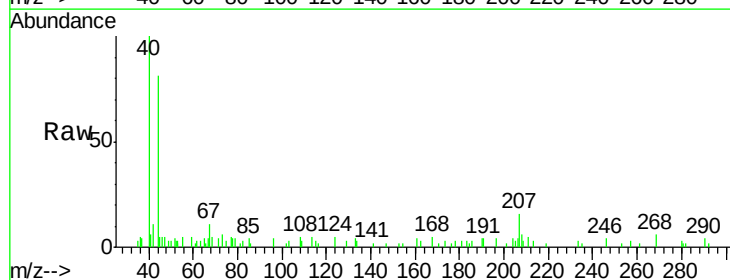
Instrument :
MSVOA_F
ClientSampleId :
P021-SS008-0206-02RE

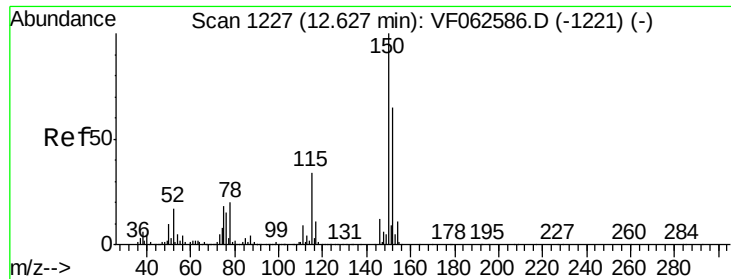
Tot Ion:106 Resp: 550
Ion Ratio Lower Upper
106 100
91 77.7 150.5 225.7#



#71
Bromoform
Concen: 1.233 ug/l
RT: 10.92 min Scan# 1053
Delta R.T. 0.02 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion:173 Resp: 92
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.0 0.0



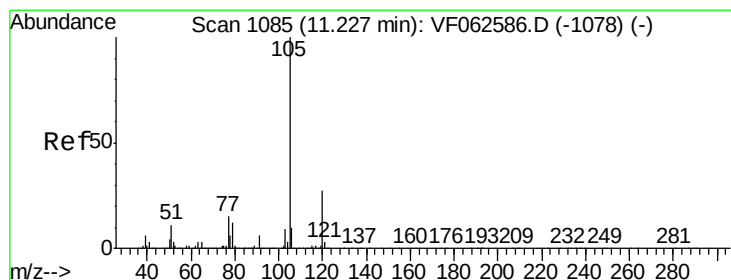
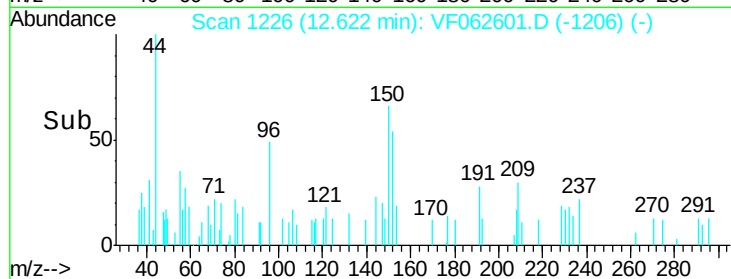
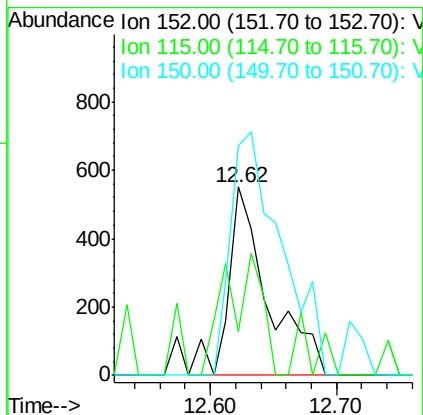
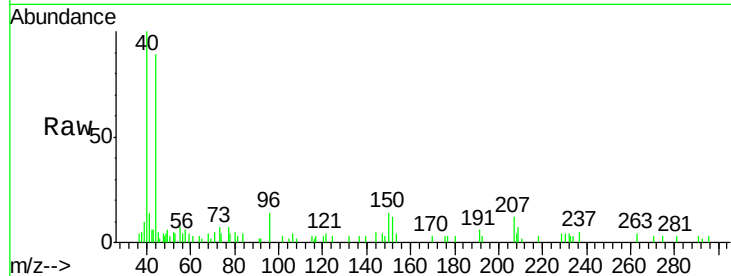


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.00 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Instrument :
MSVOA_F
ClientSampleId :
P021-SS008-0206-02RE

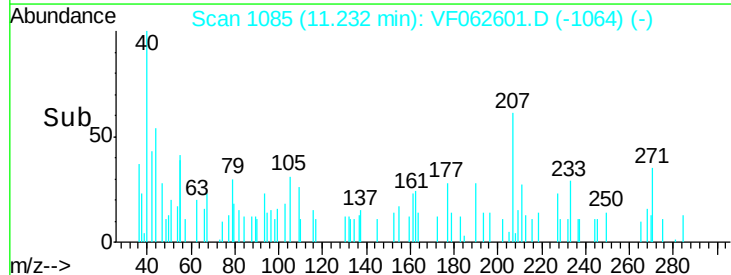
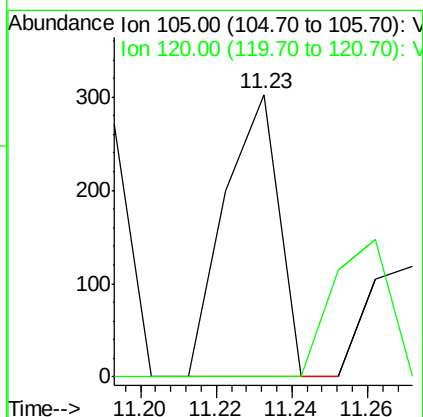
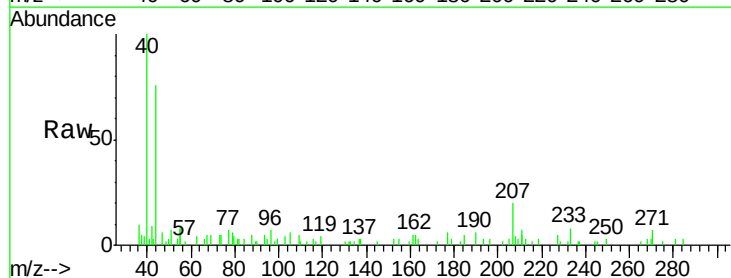
Tot Ion	Ratio	Lower	Upper
152	100		
115	23.0	26.2	78.6#
150	122.1	0.0	316.0

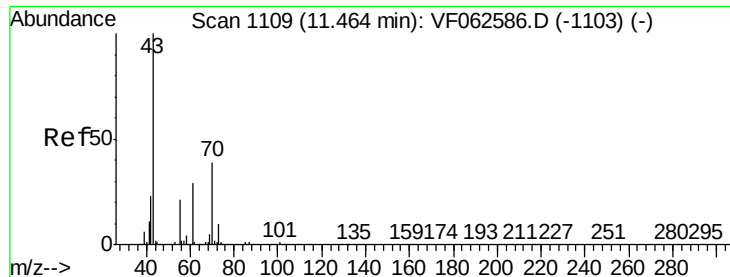


#73

Isopropylbenzene
Concen: 3.675 ug/l
RT: 11.23 min Scan# 1085
Delta R.T. 0.01 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.5	40.4#





#74

N-amvl acetate

Concen: 27.161 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

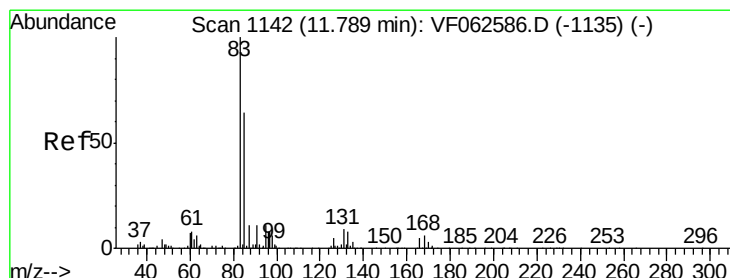
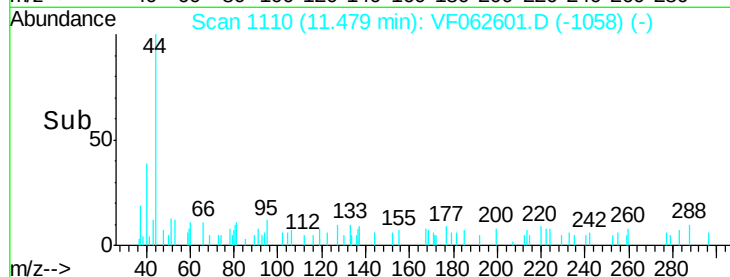
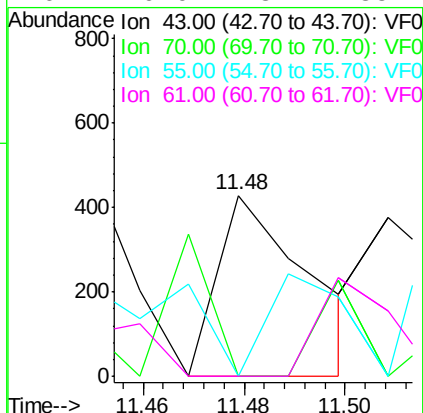
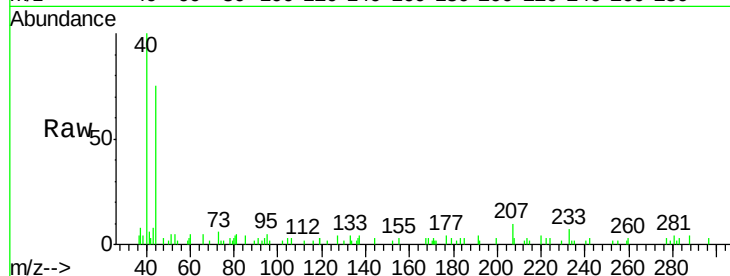
Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

Tot Ion:	43	Resp:	533
Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.0	46.4#
55	0.0	16.7	25.1#
61	0.0	23.4	35.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 9.422 ug/l

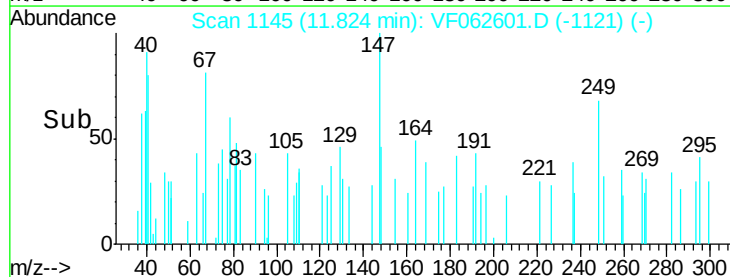
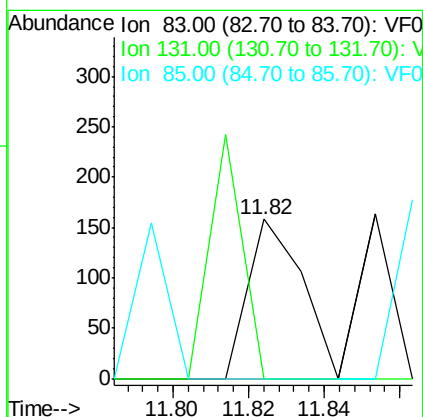
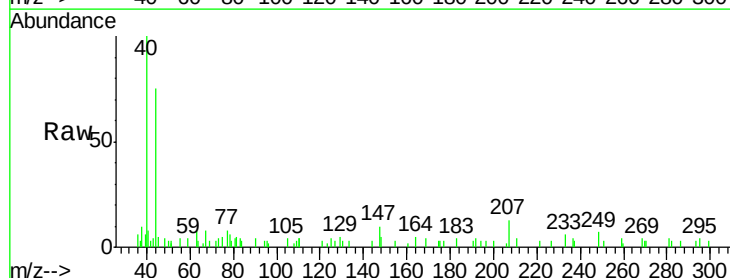
RT: 11.82 min Scan# 1145

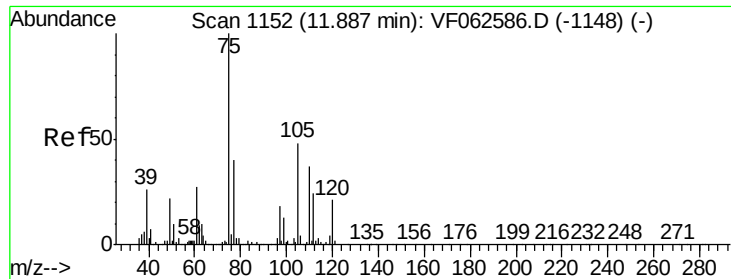
Delta R.T. 0.04 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Tgt Ion:	83	Resp:	156
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.6	13.8#
85	0.0	32.1	96.3#





#76

1,2,3-Trichloropropane

Concen: 21.198 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

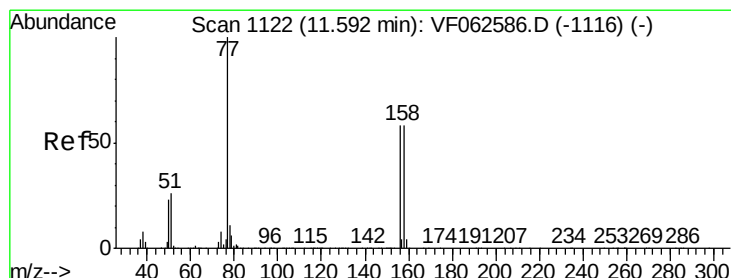
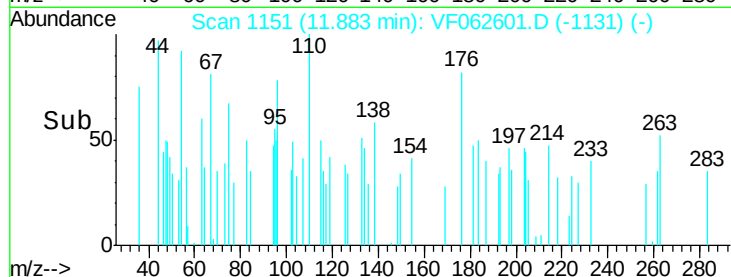
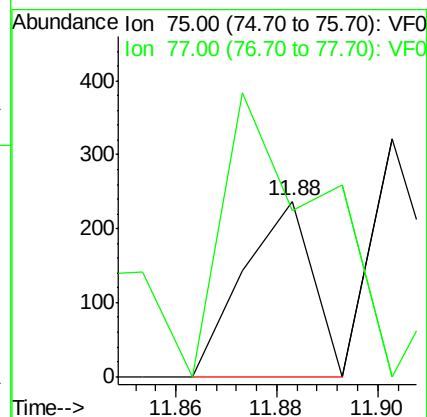
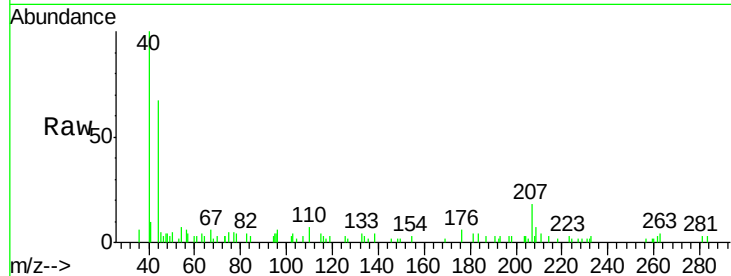
P021-SS008-0206-02RE

Tot Ion: 75 Resp: 225

Ion Ratio Lower Upper

75 100

77 94.5 20.4 61.3#



#77

Bromobenzene

Concen: 4.599 ug/l

RT: 11.56 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

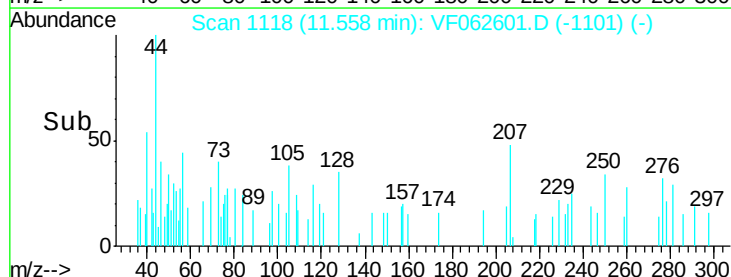
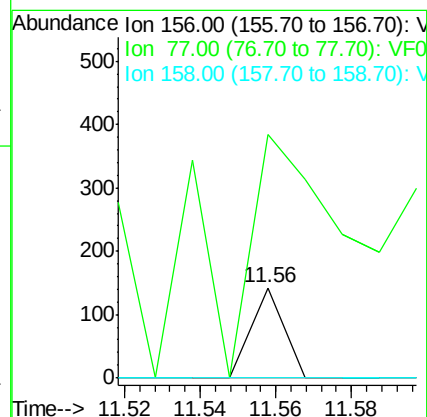
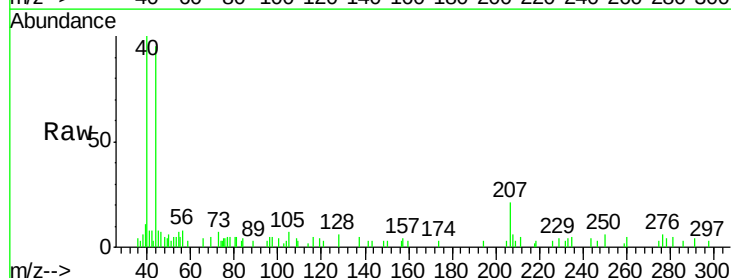
Tgt Ion: 156 Resp: 84

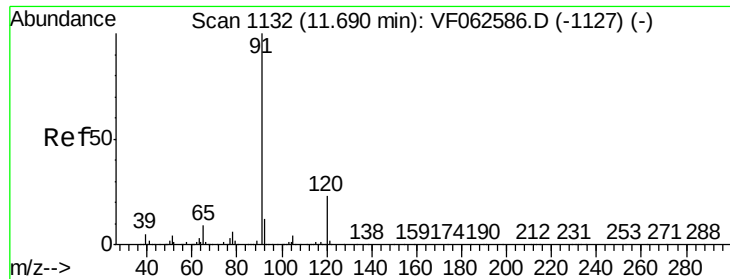
Ion Ratio Lower Upper

156 100

77 270.4 86.5 259.5#

158 0.0 50.3 150.9#





#78

n-propylbenzene

Concen: 2.174 ug/l

RT: 11.69 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

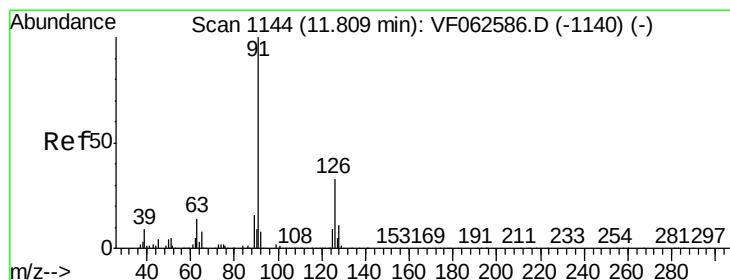
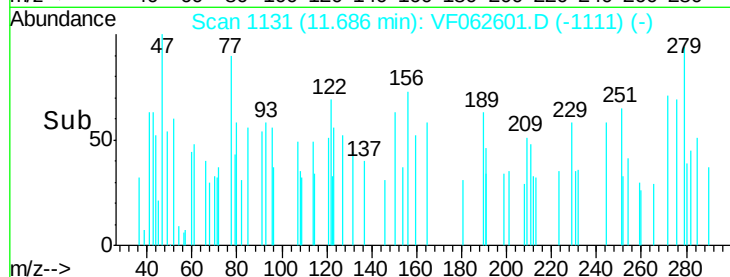
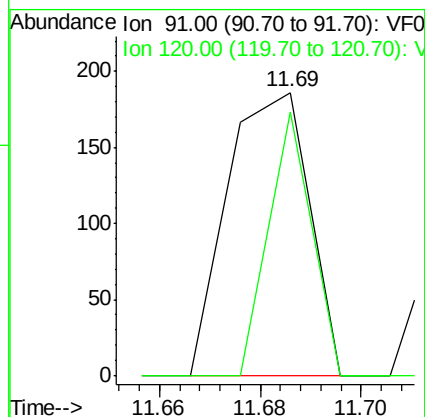
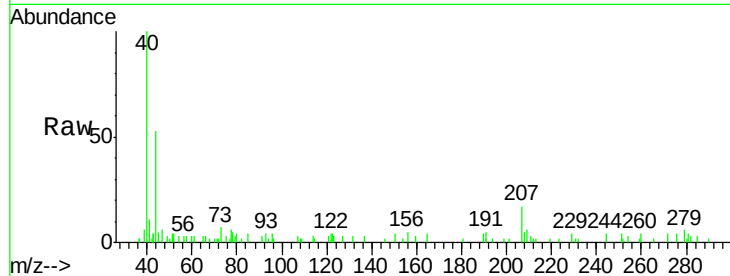
P021-SS008-0206-02RE

Tot Ion: 91 Resp: 209

Ion Ratio Lower Upper

91 100

120 93.0 11.7 35.1#



#79

2-Chlorotoluene

Concen: 10.612 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.03 min

Lab File: VF062601.D

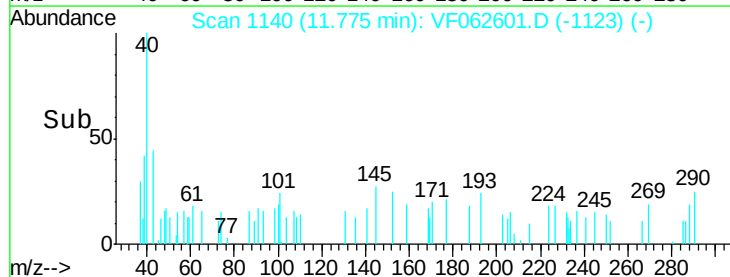
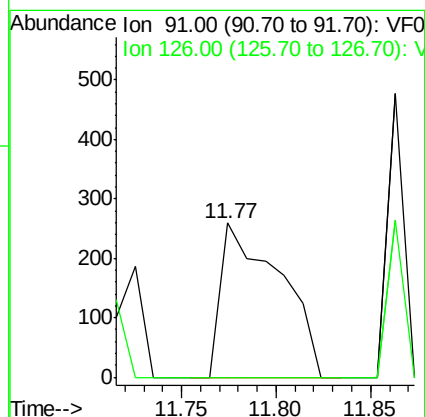
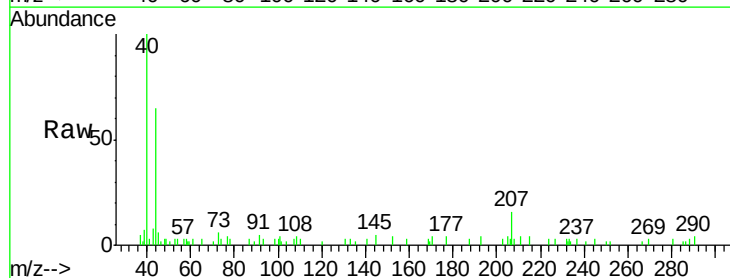
Acq: 15 May 2019 1:21

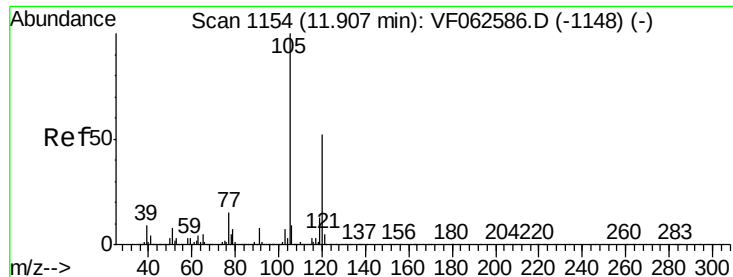
Tgt Ion: 91 Resp: 563

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.8#

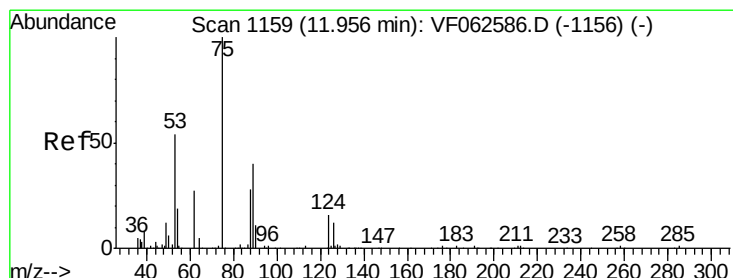
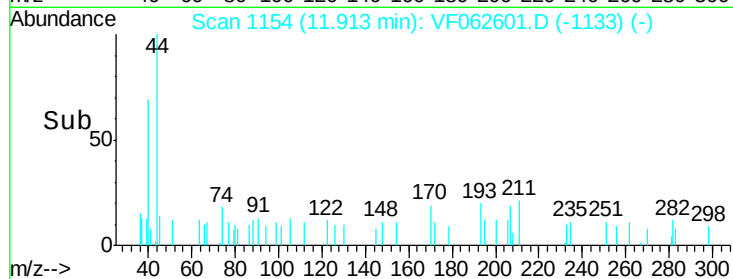
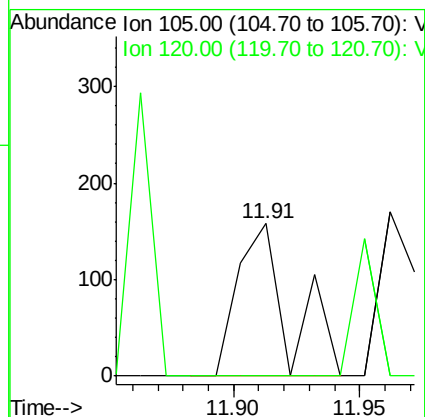
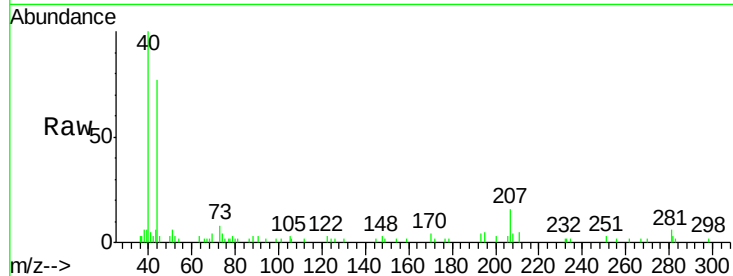




#80
 1,3,5-Trimethylbenzene
 Concen: 3.557 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. 0.01 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

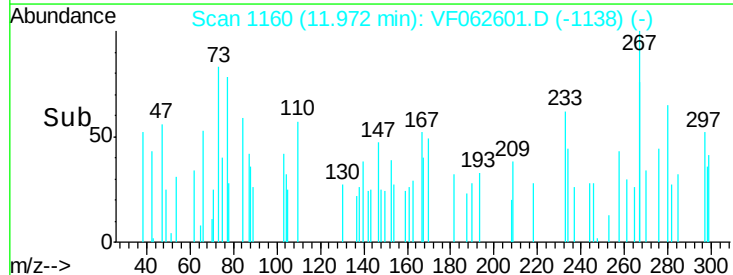
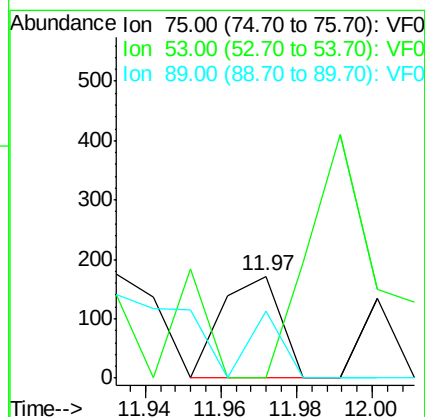
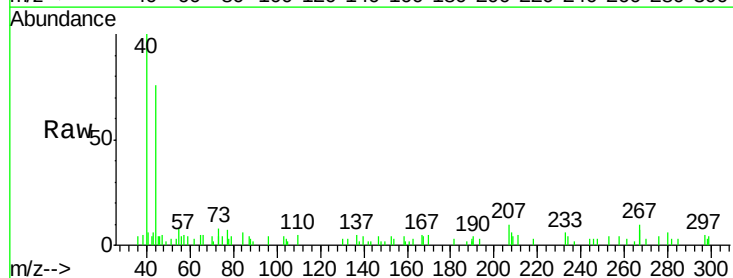
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

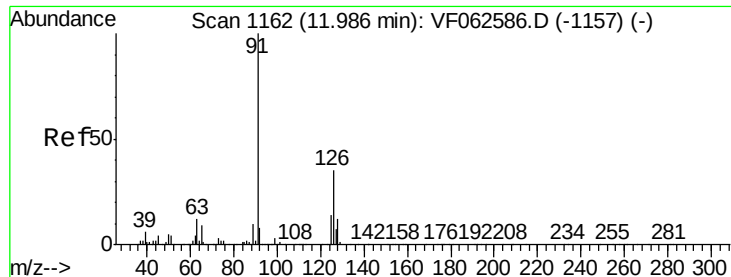
Tot Ion:105 Resp: 225
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.9 77.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 40.670 ug/l
 RT: 11.97 min Scan# 1160
 Delta R.T. 0.02 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion: 75 Resp: 184
 Ion Ratio Lower Upper
 75 100
 53 0.0 46.6 70.0#
 89 65.1 33.8 50.8#

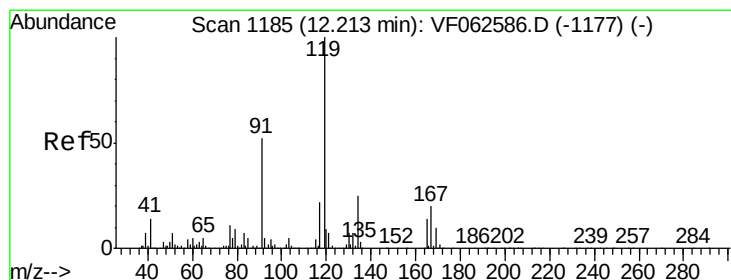
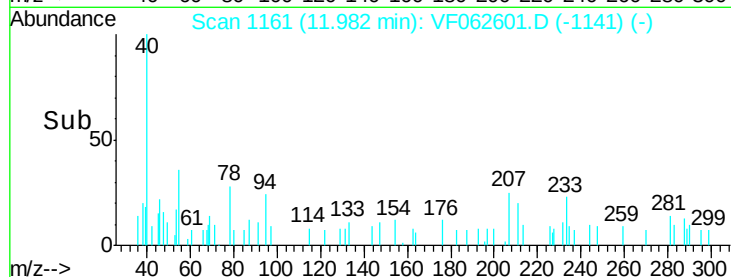
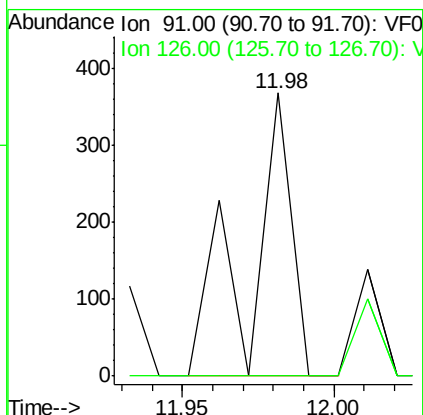
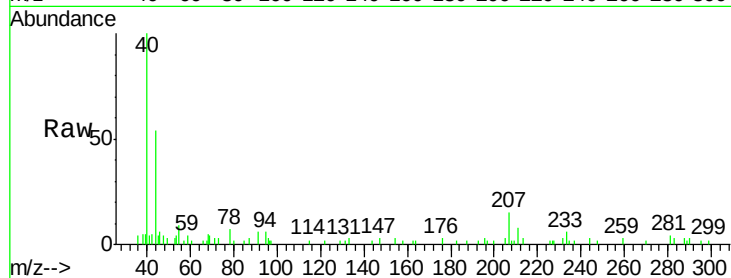




#82
4-Chlorotoluene
Concen: 6.805 ug/l
RT: 11.98 min Scan# 1161
Delta R.T. -0.00 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

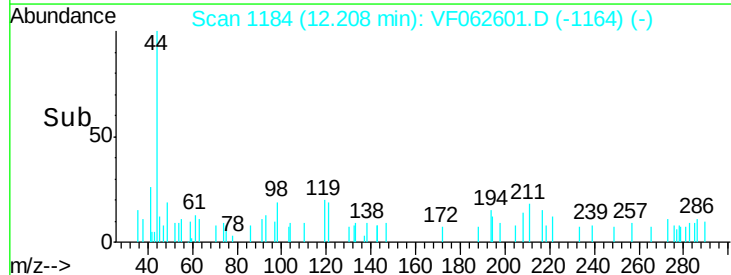
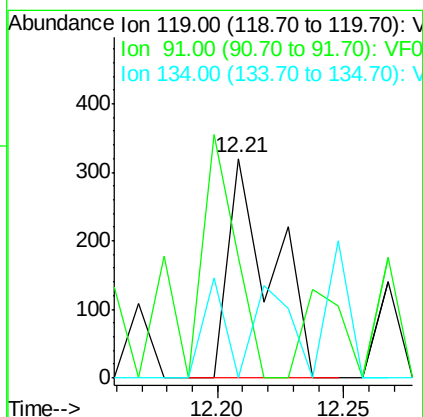
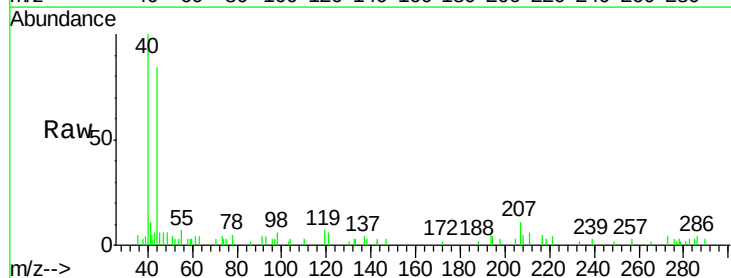
Instrument :
MSVOA_F
ClientSampleId :
P021-SS008-0206-02RE

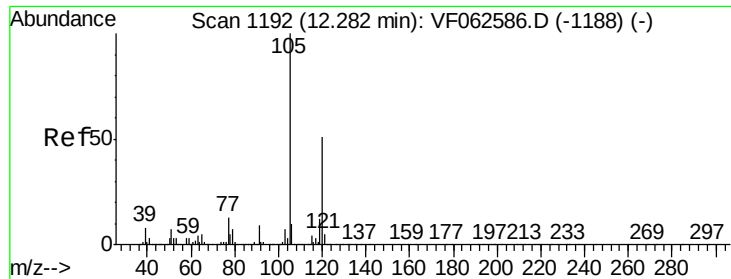
Tot Ion: 91 Resp: 353
Ion Ratio Lower Upper
91 100
126 0.0 17.5 52.5#



#83
tert-Butylbenzene
Concen: 5.818 ug/l
RT: 12.21 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion: 119 Resp: 385
Ion Ratio Lower Upper
119 100
91 54.7 26.0 78.0
134 0.0 12.6 37.8#

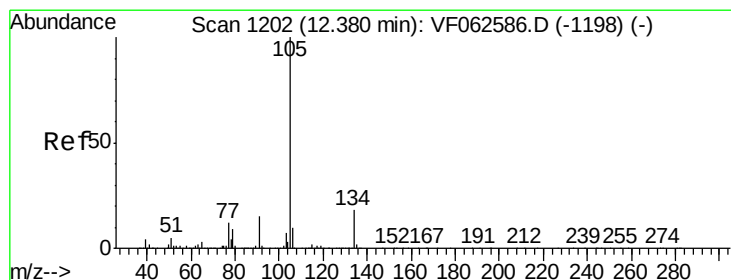
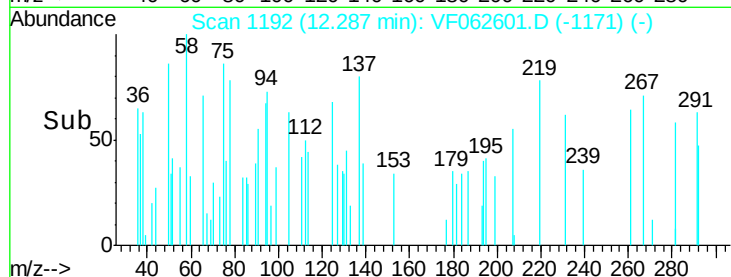
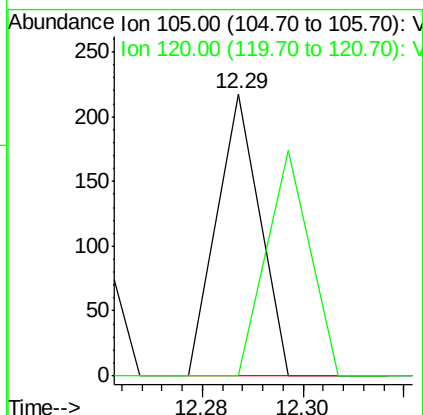
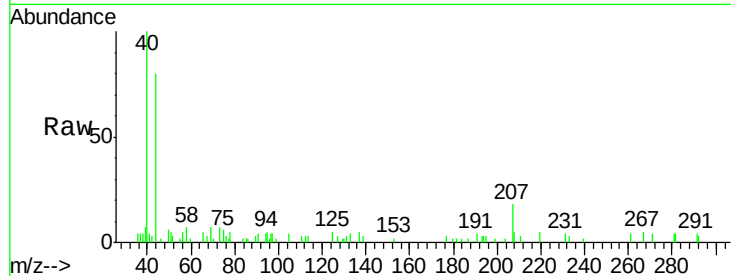




#84
 1,2,4-Trimethylbenzene
 Concen: 2.076 ug/l
 RT: 12.29 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

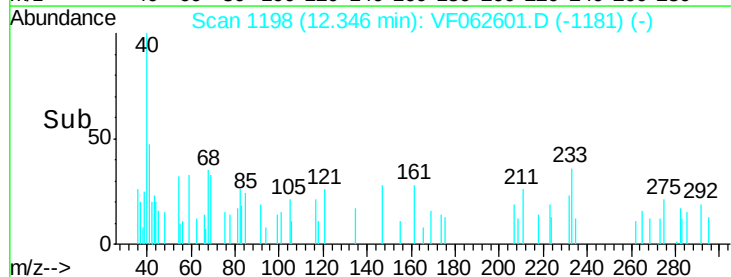
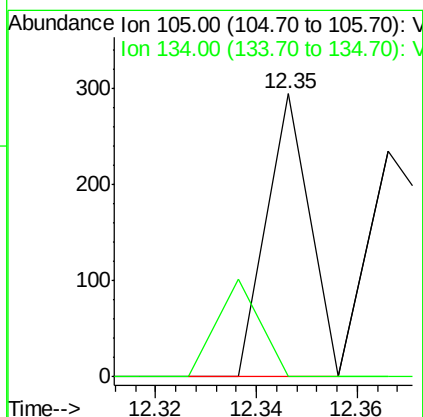
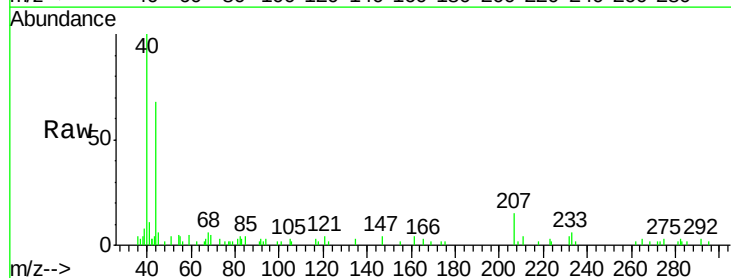
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

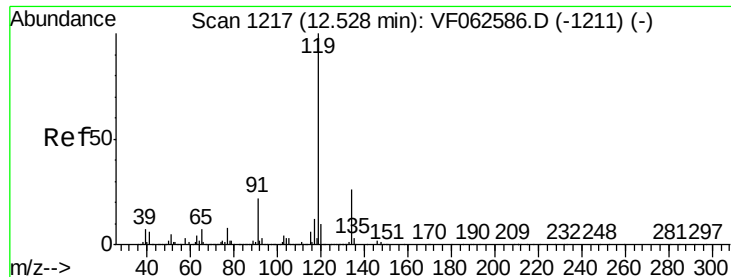
Tot Ion:105 Resp: 129
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.4 76.0#



#85
 sec-Butylbenzene
 Concen: 1.937 ug/l
 RT: 12.35 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion:105 Resp: 174
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.3 27.7#

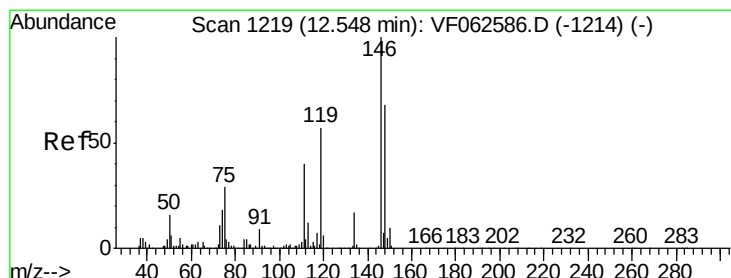
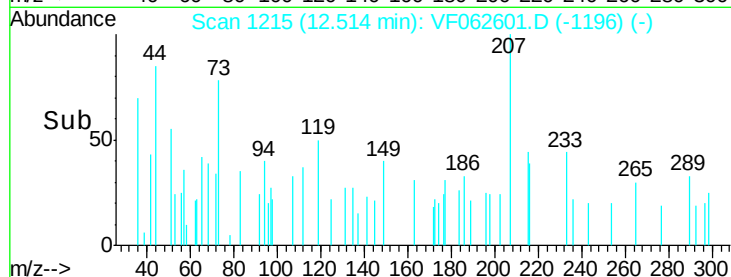
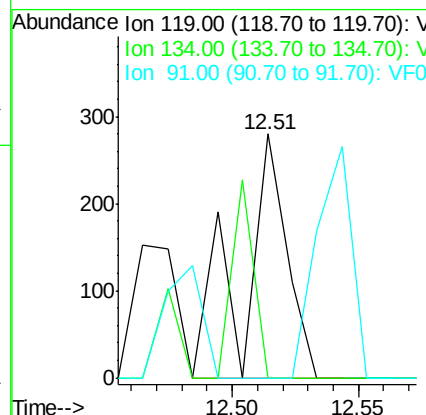
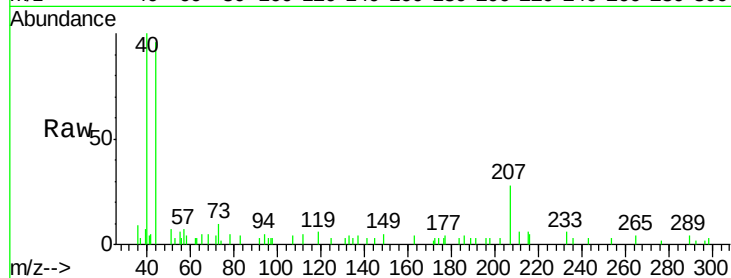




#86
p-Isopropyltoluene
Concen: 4.651 ug/l
RT: 12.51 min Scan# 1215
Delta R.T. -0.01 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

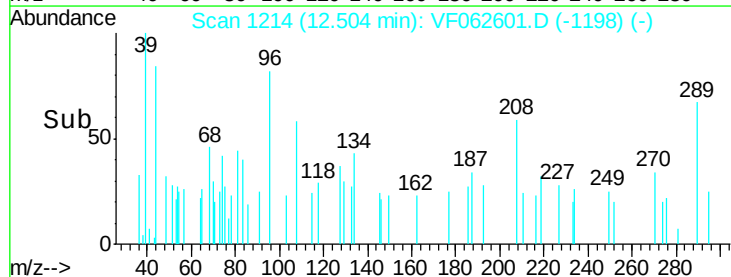
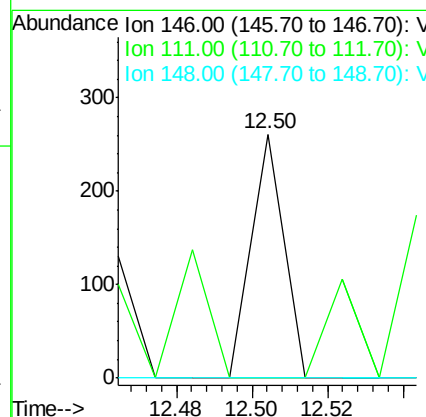
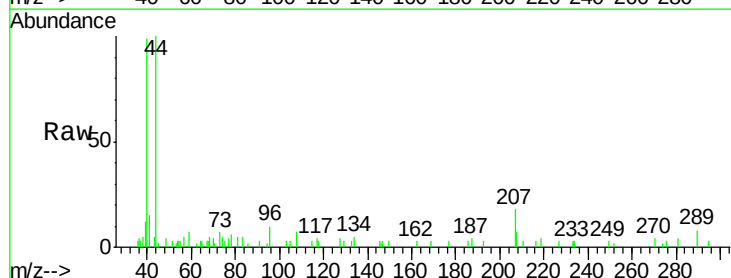
Instrument :
MSVOA_F
ClientSampleId :
P021-SS008-0206-02RE

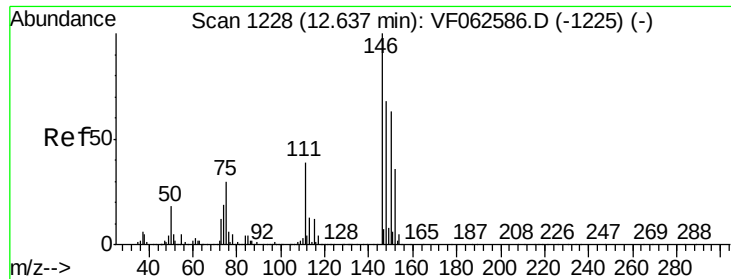
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.0	39.0#
91	0.0	10.9	32.9#



#87
1,3-Dichlorobenzene
Concen: 4.311 ug/l
RT: 12.50 min Scan# 1214
Delta R.T. -0.04 min
Lab File: VF062601.D
Acq: 15 May 2019 1:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.1	60.2#
148	0.0	34.0	101.8#

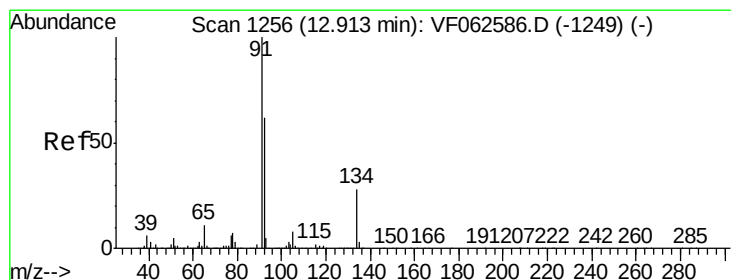
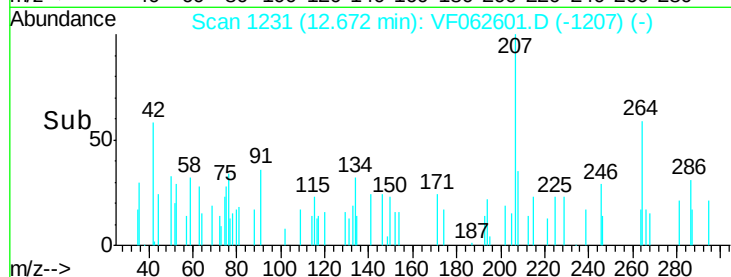
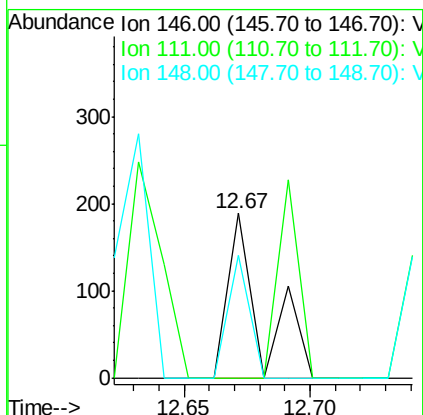
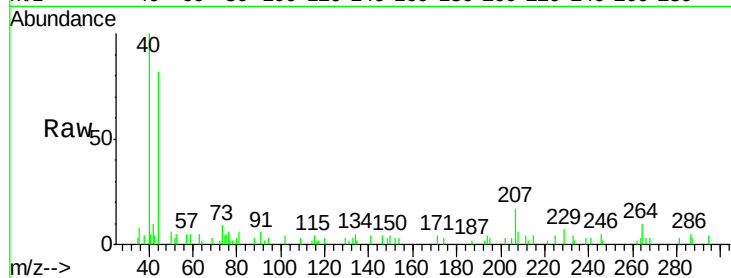




#88
 1,4-Dichlorobenzene
 Concen: 5.193 ug/l
 RT: 12.67 min Scan# 1231
 Delta R.T. 0.04 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

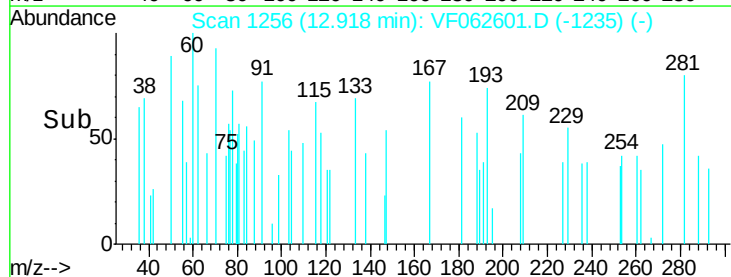
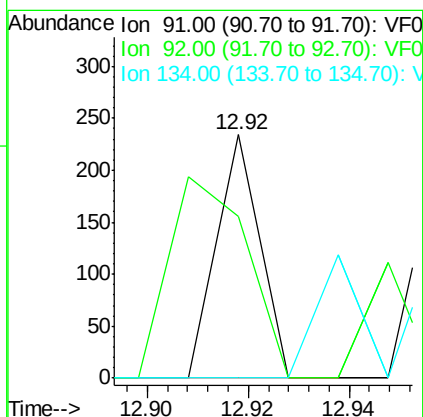
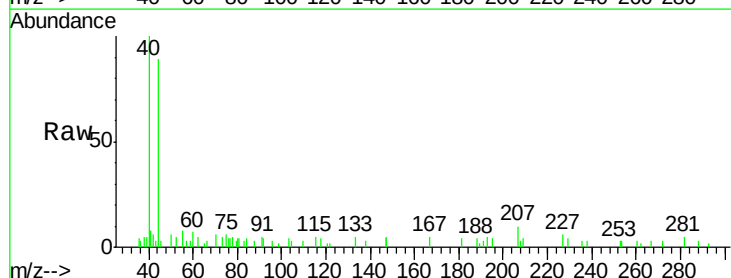
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

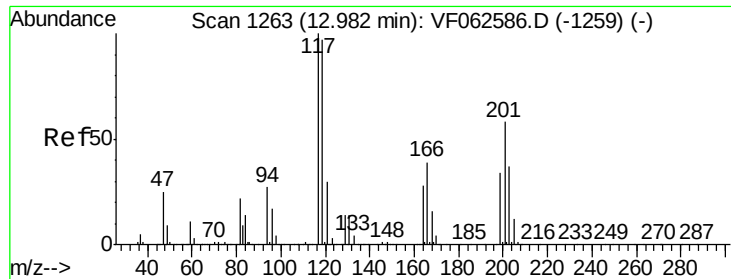
Tot Ion:146 Resp: 174
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.4 58.1#
 148 74.6 34.2 102.5



#89
 n-Butylbenzene
 Concen: 1.833 ug/l
 RT: 12.92 min Scan# 1256
 Delta R.T. 0.01 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion: 91 Resp: 138
 Ion Ratio Lower Upper
 91 100
 92 66.7 30.9 92.8
 134 0.0 13.9 41.6#





#90

Hexachloroethane

Concen: 5.015 ug/l

RT: 13.01 min Scan# 1265

Delta R.T. 0.03 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

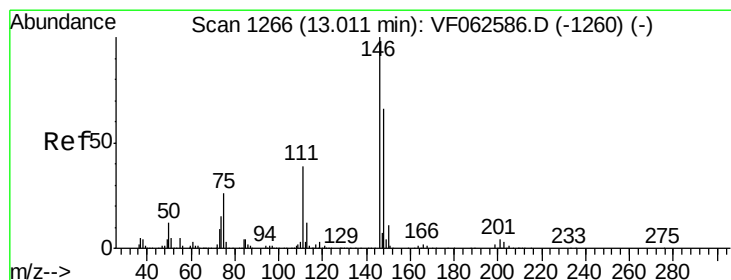
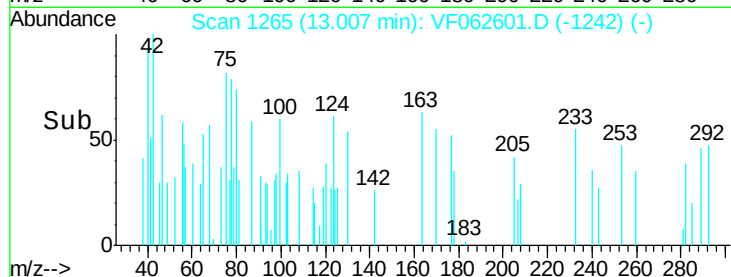
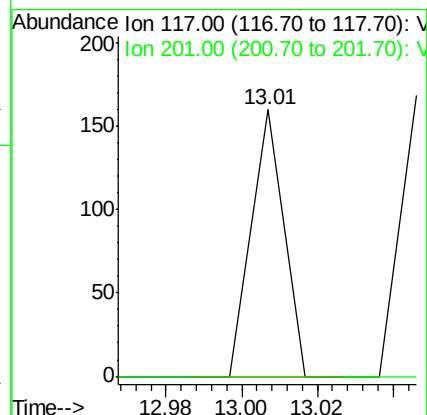
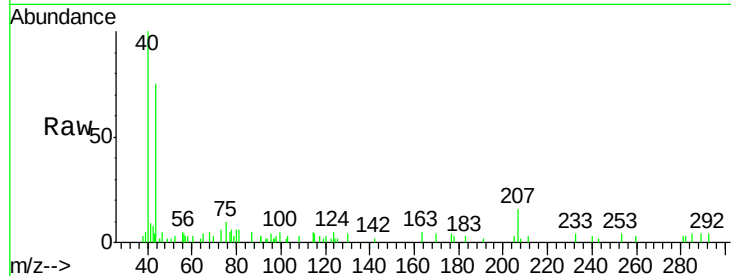
P021-SS008-0206-02RE

Tot Ion:117 Resp: 95

Ion Ratio Lower Upper

117 100

201 0.0 29.7 89.1#



#91

1,2-Dichlorobenzene

Concen: 2.556 ug/l

RT: 13.02 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

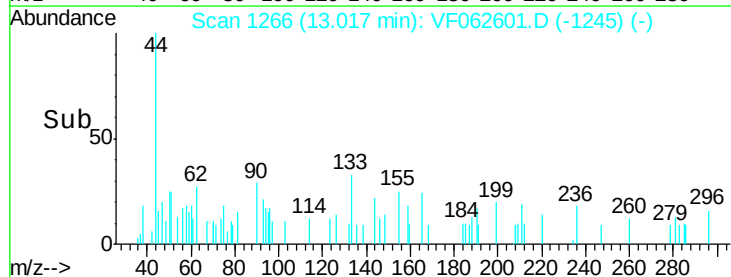
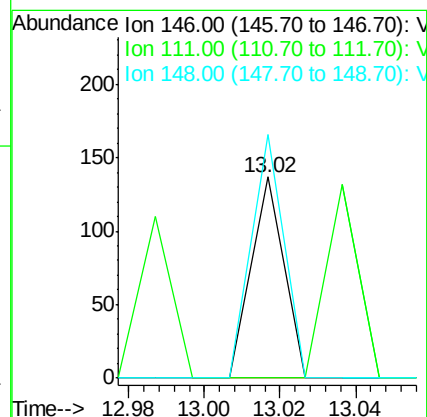
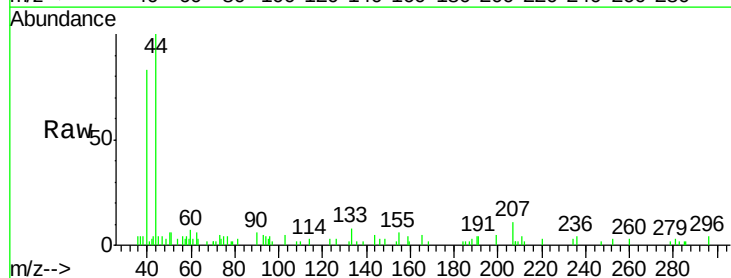
Tgt Ion:146 Resp: 81

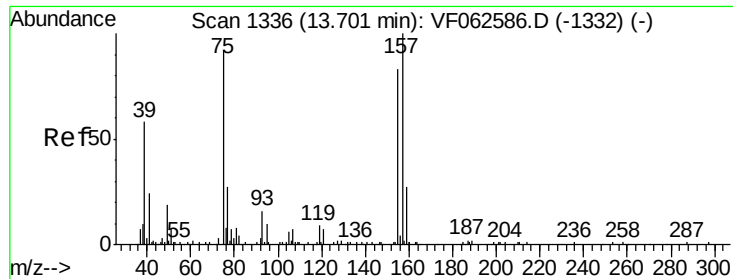
Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.2#

148 121.2 33.1 99.5#

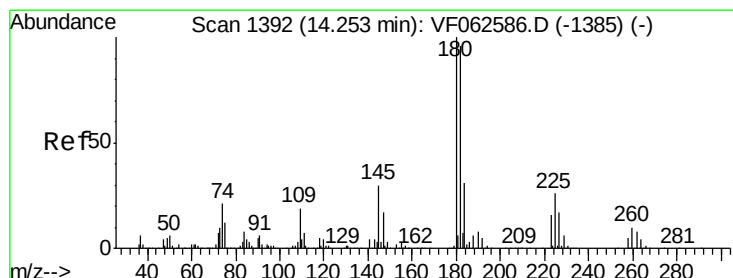
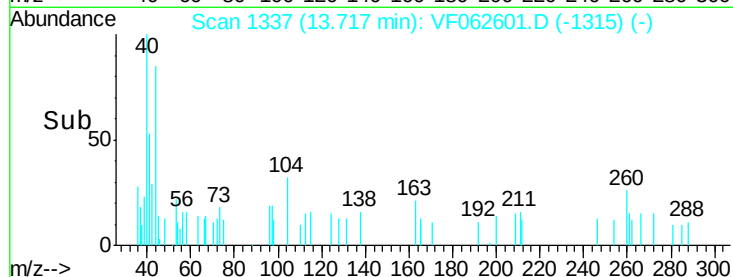
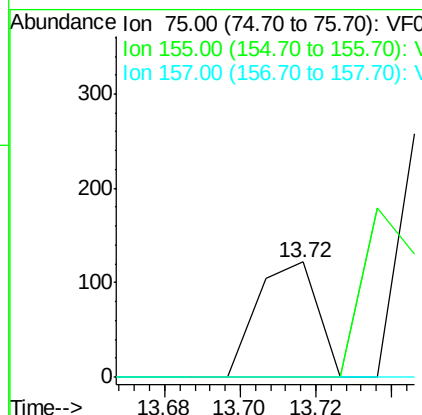
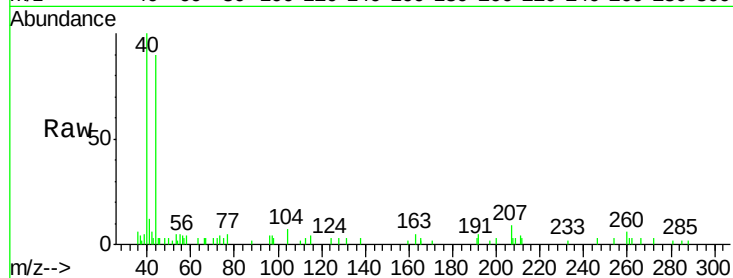




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 65.888 ug/l
 RT: 13.72 min Scan# 1337
 Delta R.T. 0.02 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

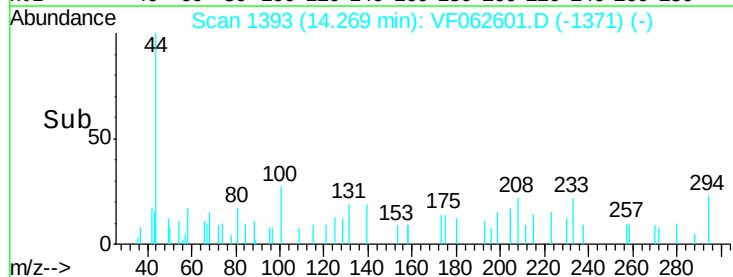
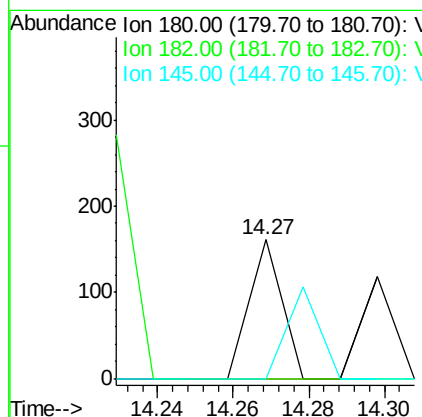
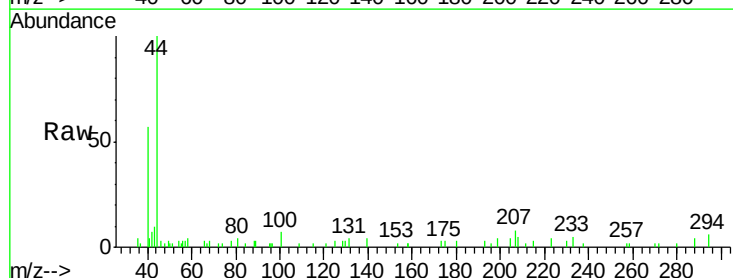
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS008-0206-02RE

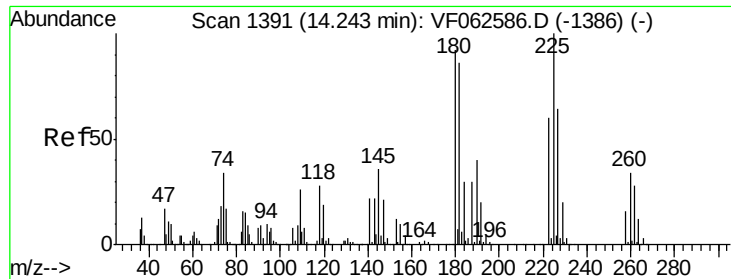
Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	44.8	134.4#
157	0.0	54.1	162.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 4.311 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.02 min
 Lab File: VF062601.D
 Acq: 15 May 2019 1:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	14.8	44.4#





#94

Hexachlorobutadiene

Concen: 6.184 ug/l

RT: 14.25 min Scan# 1391

Delta R.T. 0.01 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

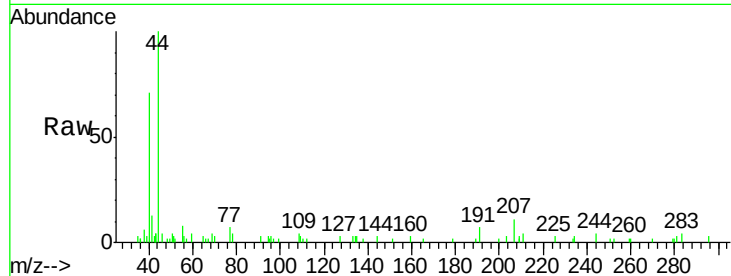
Tot Ion:225 Resp: 99

Ion Ratio Lower Upper

225 100

223 0.0 29.9 89.7#

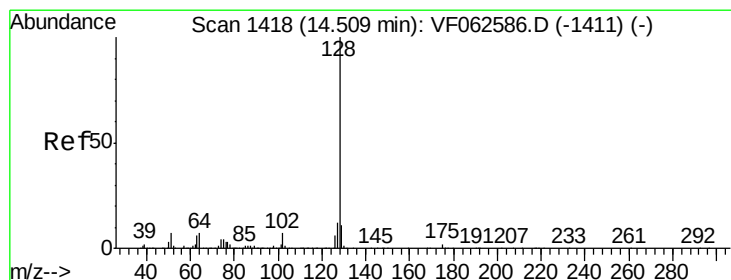
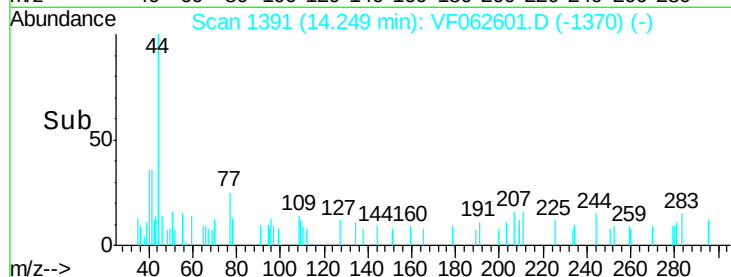
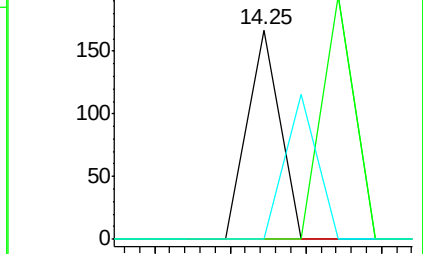
227 0.0 31.9 95.9#



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: 3.764 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.02 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

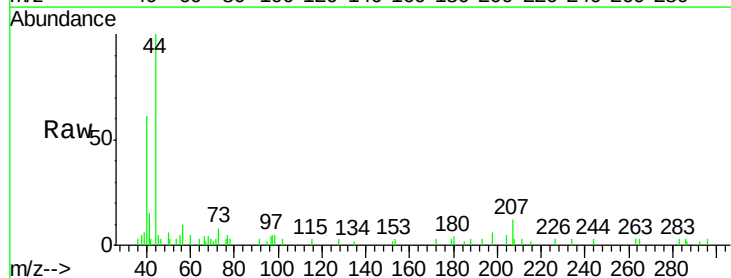
Tgt Ion:128 Resp: 135

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

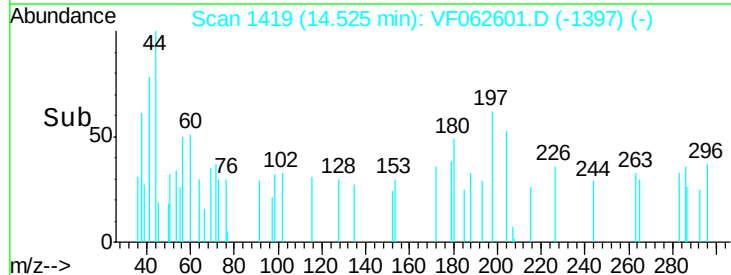
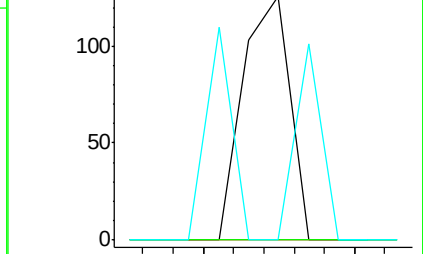
129 0.0 8.6 13.0#

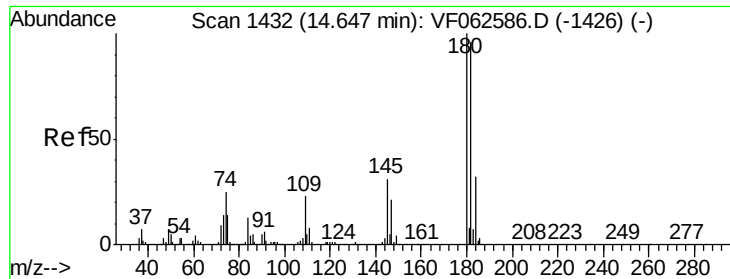


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 4.794 ug/l

RT: 14.60 min Scan# 1427

Delta R.T. -0.04 min

Lab File: VF062601.D

Acq: 15 May 2019 1:21

Instrument :

MSVOA_F

ClientSampleId :

P021-SS008-0206-02RE

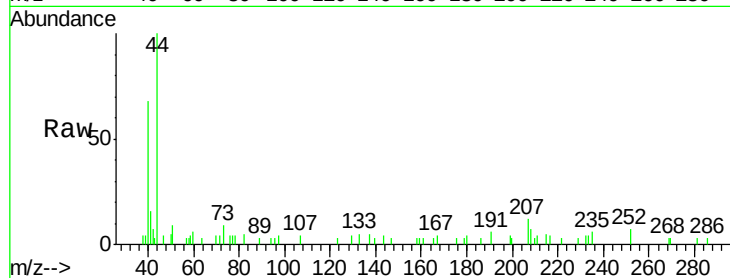
Tot Ion:180 Resp: 98

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

145 0.0 15.6 46.7#



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

