

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062445.D
 Acq On : 11 May 2019 4:07
 Operator : FY/SY
 Sample : K2719-22
 Misc : 5.81g/5mL/MSVOA F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS011-1824-01

Quant Time: May 11 05:41:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	33153	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.78	114	22485	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	7125	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	814	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	5510	17.59	ug/l	0.02
Spiked Amount			Recovery	=	35.18%	
35) Dibromofluoromethane	4.32	113	7284	40.66	ug/l	0.02
Spiked Amount			Recovery	=	81.32%	
50) Toluene-d8	7.72	98	15939	36.76	ug/l	0.02
Spiked Amount			Recovery	=	73.52%	
62) 4-Bromofluorobenzene	11.51	95	2116	10.82	ug/l	0.02
Spiked Amount			Recovery	=	21.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.12	50	556	2.197	ug/l #	42
5) Bromomethane	1.42	94	386	Below Cal	#	31
8) Diethyl Ether	1.72	74	262	3.306	ug/l #	9
11) Tert butyl alcohol	2.71	59	105	5.930	ug/l #	1
12) 1,1-Dichloroethene	1.85	96	436	1.715	ug/l #	1
13) Acrolein	2.13	56	81	Below Cal	#	46
14) Allyl chloride	2.21	41	509	2.267	ug/l #	25
15) Acrylonitrile	3.11	53	65	1.938	ug/l #	1
16) Acetone	2.34	43	659	10.398	ug/l #	62
18) Methyl Acetate	2.51	43	1325	8.888	ug/l #	73
20) Methylene Chloride	2.30	84	1050	4.579	ug/l #	55
25) 2-Butanone	4.55	43	544	6.832	ug/l #	70
26) 2,2-Dichloropropane	3.97	77	596	2.516	ug/l	91
29) Tetrahydrofuran	4.29	42	396	10.821	ug/l #	36
37) Ethyl Acetate	4.31	43	901	7.500	ug/l #	73
38) Carbon Tetrachloride	4.10	117	64	Below Cal	#	14
39) Methylcyclohexane	5.79	83	407	2.101	ug/l #	44
41) Methacrylonitrile	4.95	41	217	4.685	ug/l #	1
46) Dibromomethane	6.28	93	86	1.077	ug/l #	1
48) Methyl methacrylate	6.86	41	390	6.282	ug/l #	40
49) 1,4-Dioxane	6.79	88	77	108.942	ug/l #	16
51) 4-Methyl-2-Pentanone	8.61	43	154	2.313	ug/l	90
53) t-1,3-Dichloropropene	8.43	75	180	1.192	ug/l #	43
54) cis-1,3-Dichloropropene	7.47	75	192	1.092	ug/l #	1
55) 1,1,2-Trichloroethane	8.65	97	91	1.092	ug/l #	14
58) 2-Chloroethyl Vinyl ether	7.41	63	75	2.837	ug/l #	42
59) 2-Hexanone	9.64	43	312	6.776	ug/l #	63
66) 1,1,1,2-Tetrachloroethane	10.01	131	60	1.009	ug/l #	26
70) Styrene	10.99	104	162	1.313	ug/l #	65
71) Bromoform	10.87	173	75	2.302	ug/l #	29
73) Isopropylbenzene	11.22	105	393	8.144	ug/l	99
74) N-amyl acetate	11.44	43	280	27.027	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	11.96	83	97	12.838	ug/l #	22
76) 1,2,3-Trichloropropane	11.81	75	104	18.041	ug/l #	100

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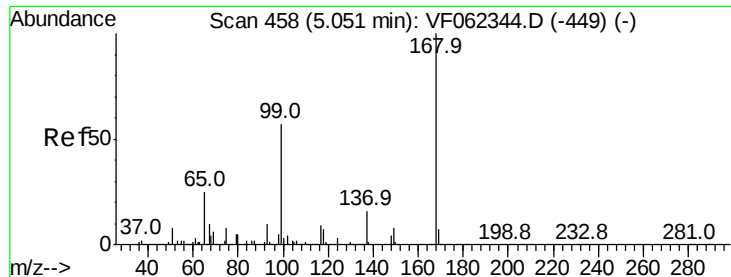
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

78) n-propylbenzene	11.68	91	302	5.878	ug/l #	52
79) 2-Chlorotoluene	11.68	91	302	9.453	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.00	105	165	3.901	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.96	75	66	30.459	ug/l #	99
82) 4-Chlorotoluene	11.98	91	60	1.902	ug/l #	39
83) tert-Butylbenzene	12.21	119	88	1.980	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.26	105	151	3.648	ug/l #	31
85) sec-Butylbenzene	12.38	105	329	6.081	ug/l	91
86) p-Isopropyltoluene	12.53	119	277	5.510	ug/l #	72
87) 1,3-Dichlorobenzene	12.56	146	64	2.767	ug/l #	4
88) 1,4-Dichlorobenzene	12.56	146	64	2.867	ug/l #	5
89) n-Butylbenzene	12.85	91	64	1.431	ug/l #	29
90) Hexachloroethane	12.97	117	101	8.047	ug/l #	3
92) 1,2-Dibromo-3-Chloropropan	13.76	75	124	73.254	ug/l #	18
95) Naphthalene	14.43	128	76	2.517	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.56	180	79	4.061	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

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ClientSampleId :

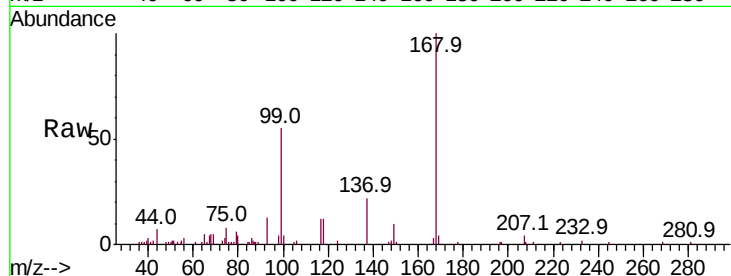
P026-SS011-1824-01

Tot Ion:168 Resp: 33153

Ion Ratio Lower Upper

168 100

99 55.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.07

12000

10000

8000

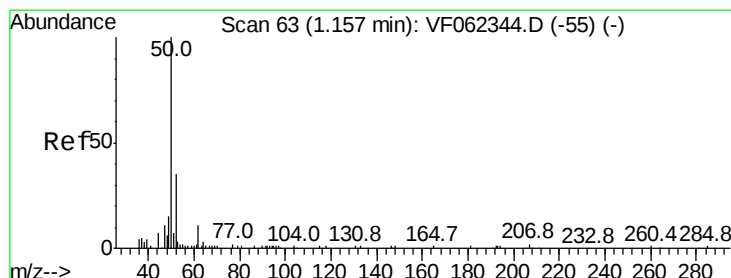
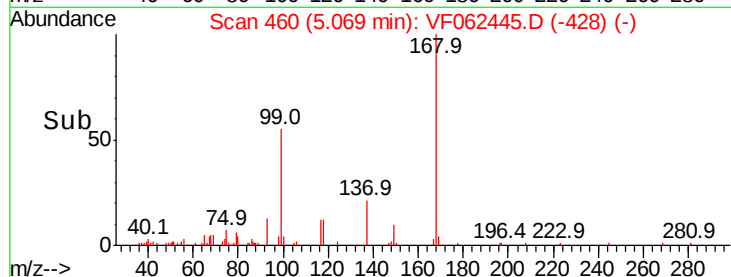
6000

4000

2000

0

Time--> 4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 2.197 ug/l

RT: 1.12 min Scan# 59

Delta R.T. -0.04 min

Lab File: VF062445.D

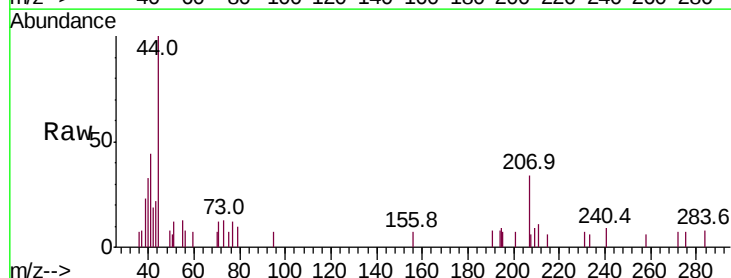
Acq: 11 May 2019 4:07

Tgt Ion: 50 Resp: 556

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0

300

250

200

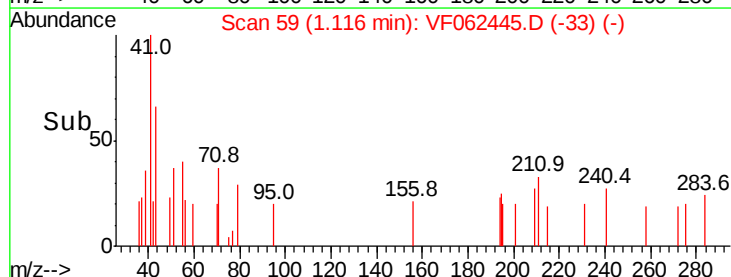
150

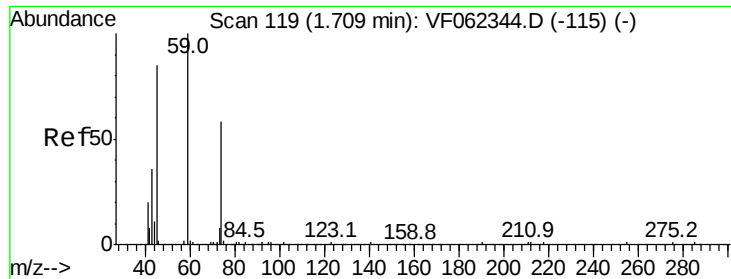
100

50

0

Time--> 1.05 1.10 1.15





#8

Diethyl Ether

Concen: 3.306 ug/l

RT: 1.72 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

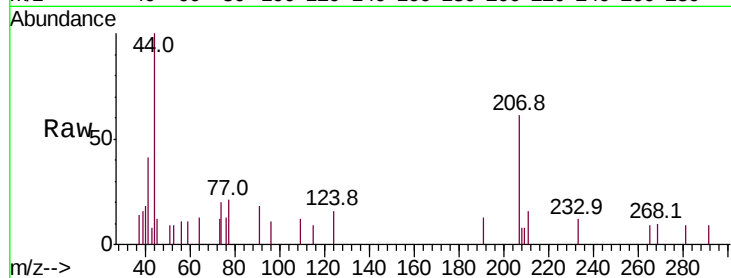
P026-SS011-1824-01

Tot Ion: 74 Resp: 262

Ion Ratio Lower Upper

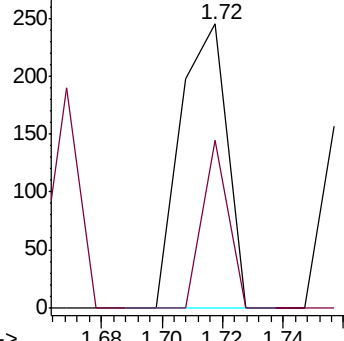
74 100

45 32.8 73.9 221.6#

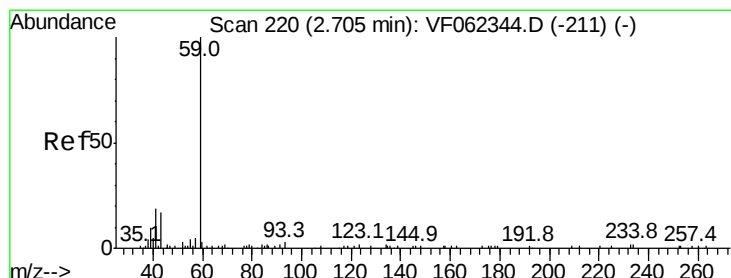
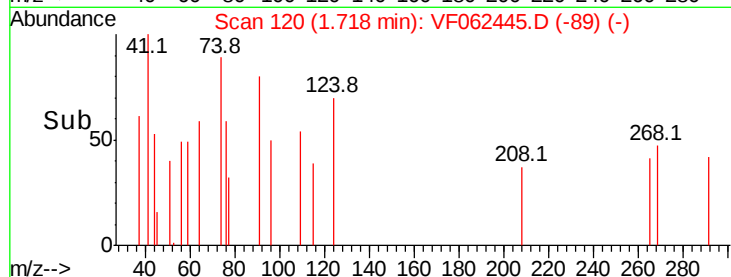


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->



#11

Tert butyl alcohol

Concen: 5.930 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF062445.D

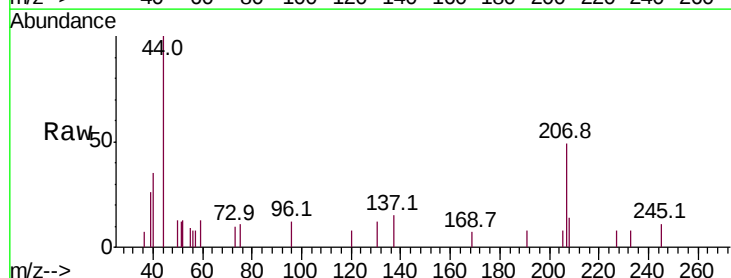
Acq: 11 May 2019 4:07

Tgt Ion: 59 Resp: 105

Ion Ratio Lower Upper

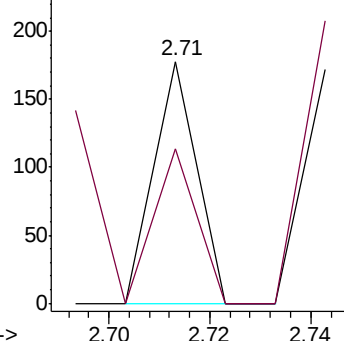
59 100

57 143.8 9.3 13.9#

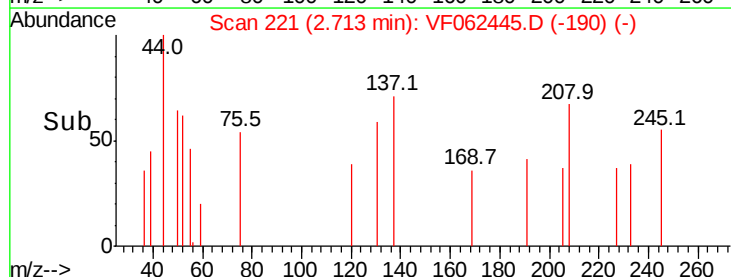


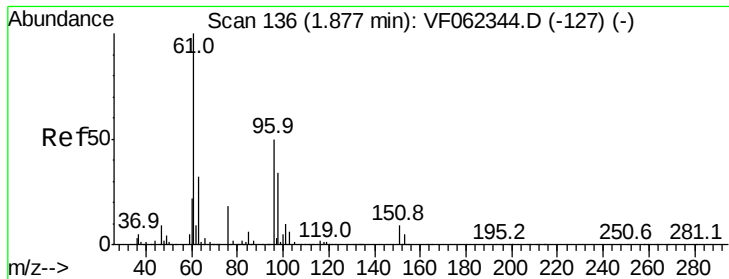
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time-->





#12

1,1-Dichloroethene

Concen: 1.715 ug/l

RT: 1.85 min Scan# 133

Delta R.T. -0.03 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

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P026-SS011-1824-01

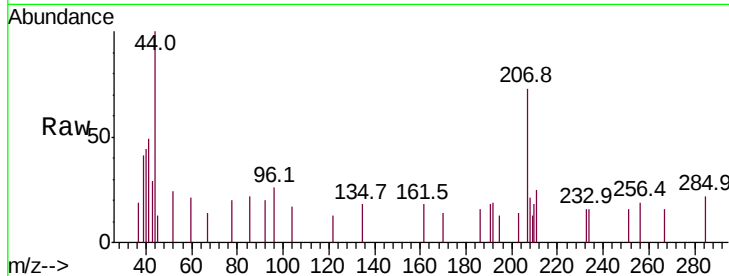
Tot Ion: 96 Resp: 436

Ion Ratio Lower Upper

96 100

61 0.0 163.2 244.8#

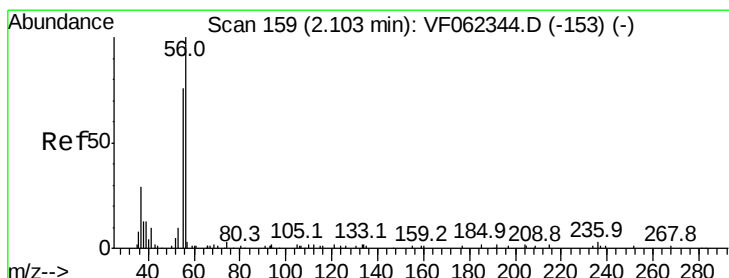
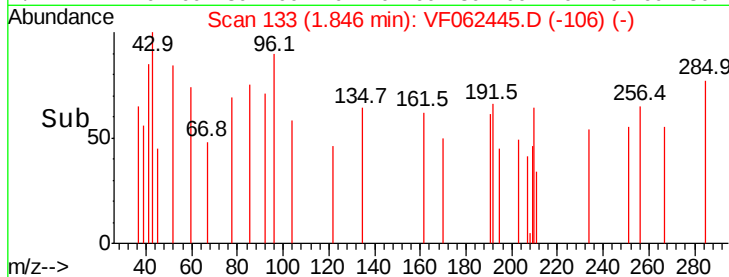
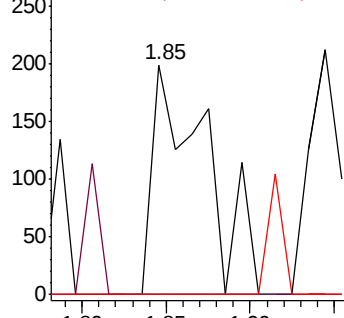
98 0.0 55.2 82.8#



Abundance Ion 95.90 (95.60 to 96.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



#13

Acrolein

Concen: Below Cal

RT: 2.13 min Scan# 162

Delta R.T. 0.03 min

Lab File: VF062445.D

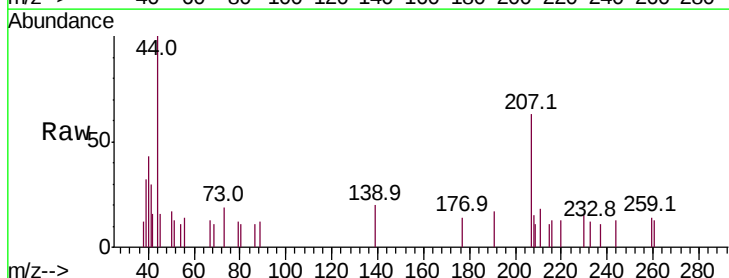
Acq: 11 May 2019 4:07

Tgt Ion: 56 Resp: 81

Ion Ratio Lower Upper

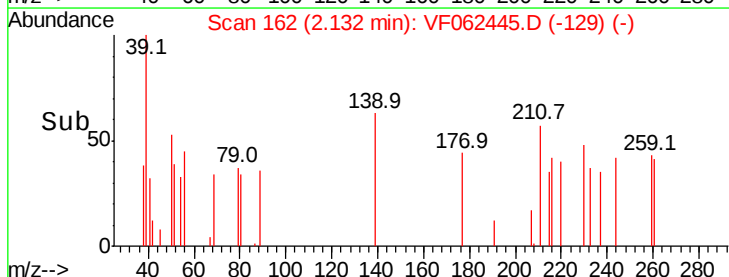
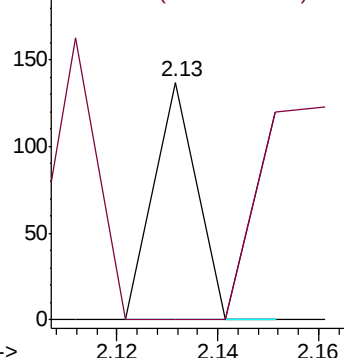
56 100

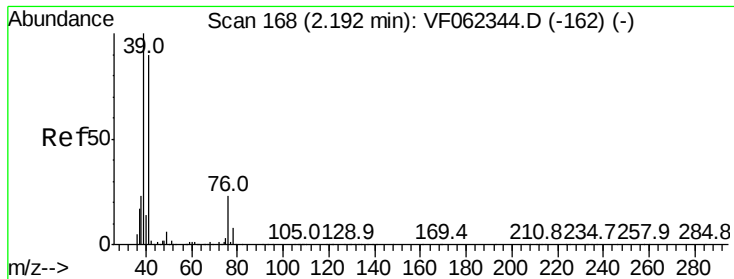
55 118.5 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

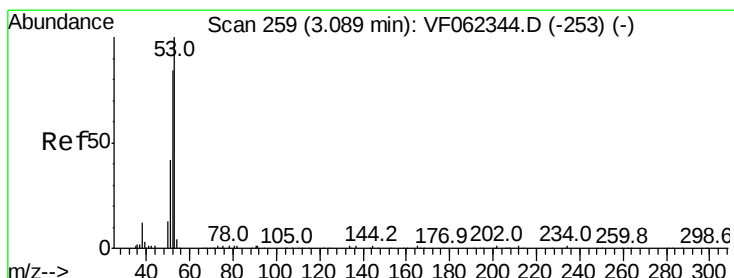
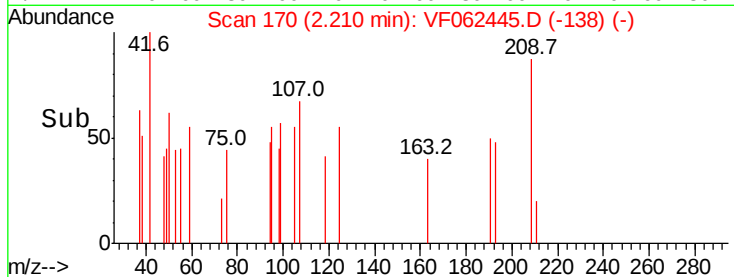
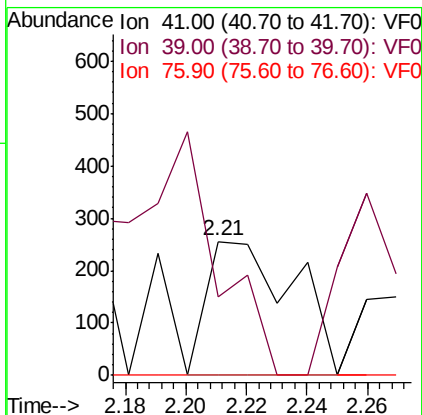
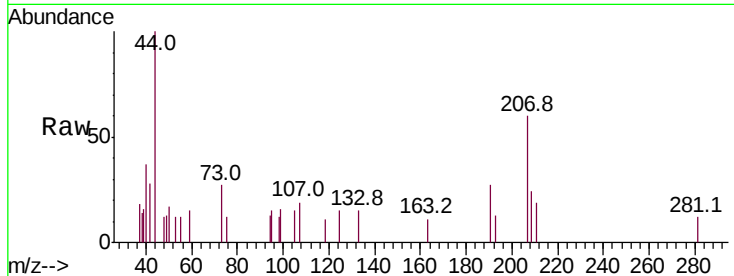




#14
Allvl chloride
Concen: 2.267 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.02 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

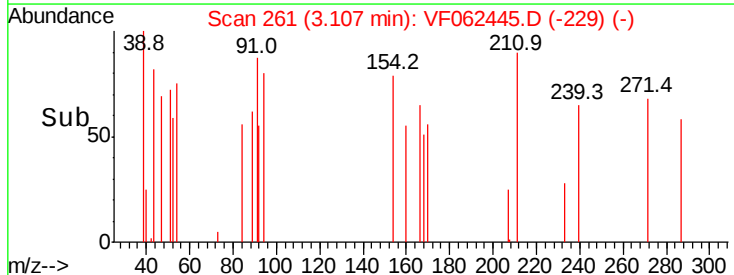
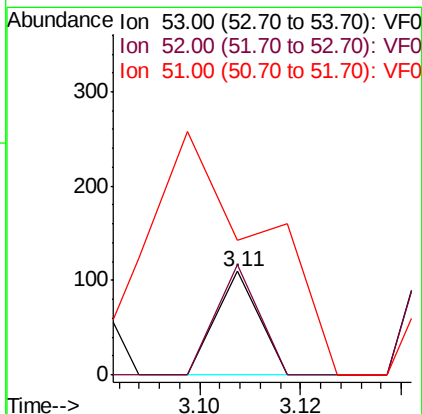
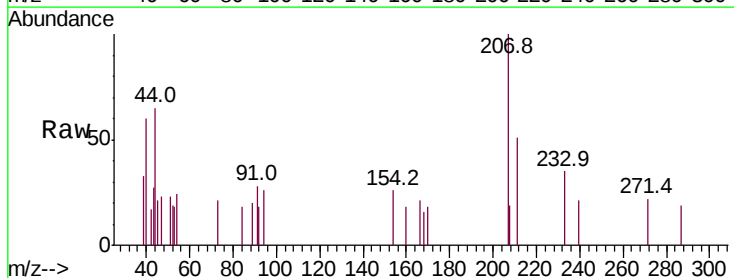
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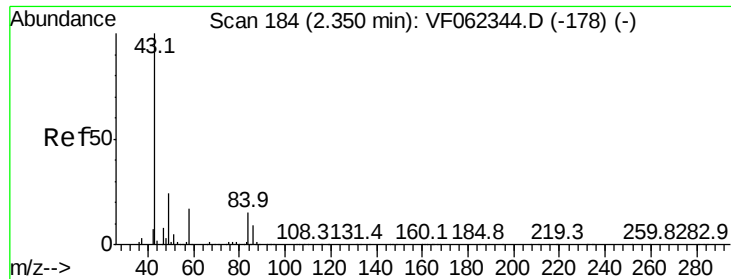
Tot Ion: 41 Resp: 509
Ion Ratio Lower Upper
41 100
39 200.2 90.8 136.2#
76 0.0 22.2 33.4#



#15
Acrylonitrile
Concen: 1.938 ug/l
RT: 3.11 min Scan# 261
Delta R.T. 0.02 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

Tgt Ion: 53 Resp: 65
Ion Ratio Lower Upper
53 100
52 106.2 77.2 115.8
51 724.6 40.6 61.0#





#16

Acetone

Concen: 10.398 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

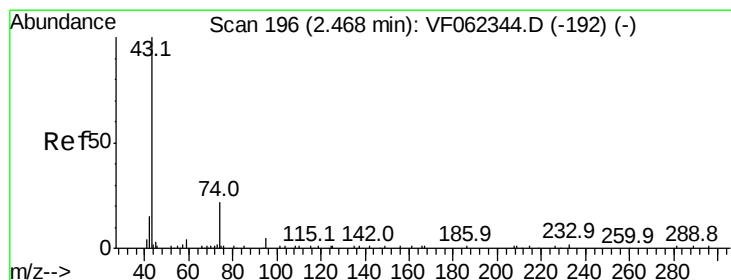
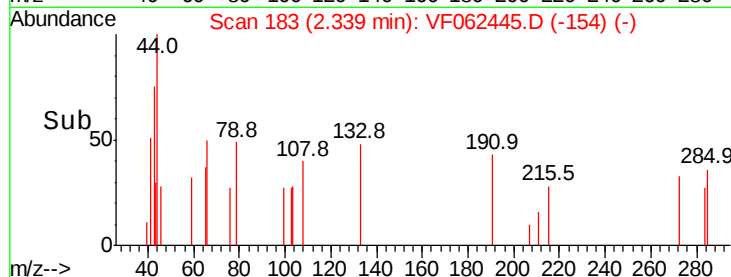
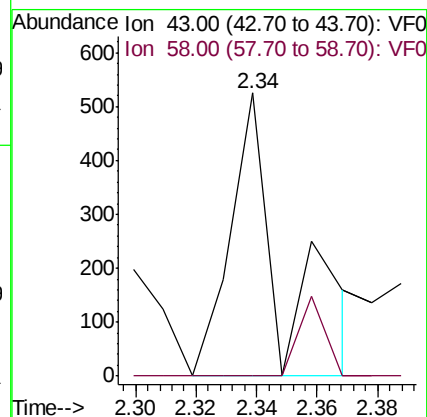
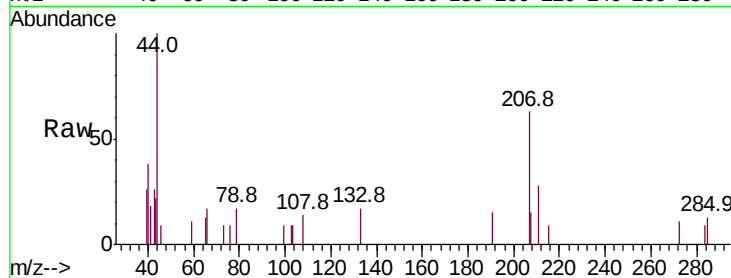
P026-SS011-1824-01

Tot Ion: 43 Resp: 659

Ion Ratio Lower Upper

43 100

58 0.0 13.1 19.7#



#18

Methyl Acetate

Concen: 8.888 ug/l

RT: 2.51 min Scan# 200

Delta R.T. 0.04 min

Lab File: VF062445.D

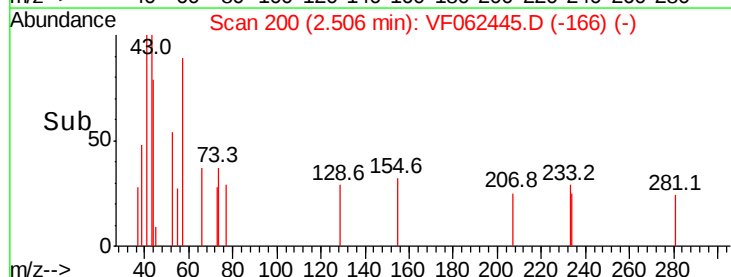
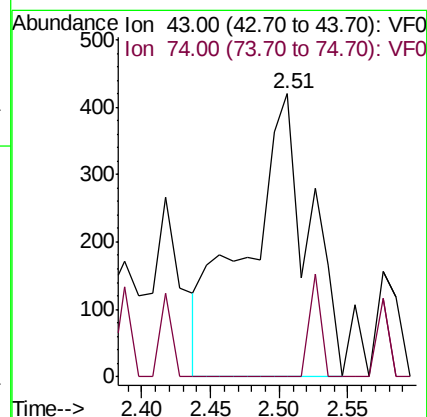
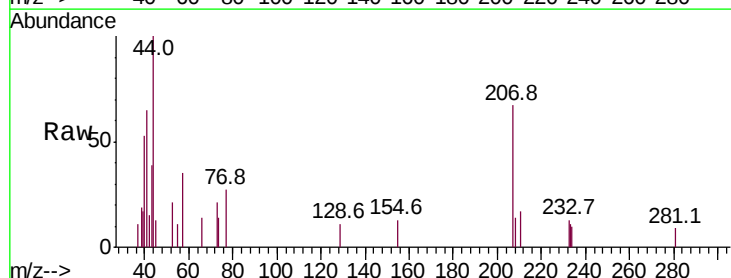
Acq: 11 May 2019 4:07

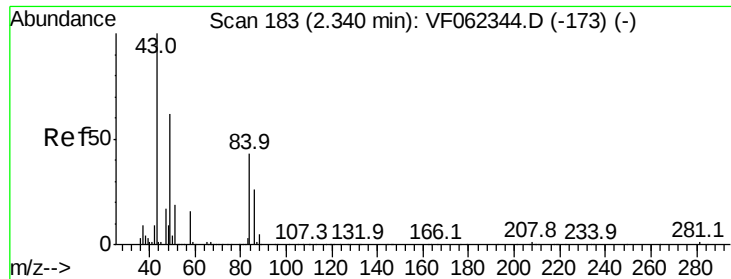
Tgt Ion: 43 Resp: 1325

Ion Ratio Lower Upper

43 100

74 6.8 15.0 22.4#

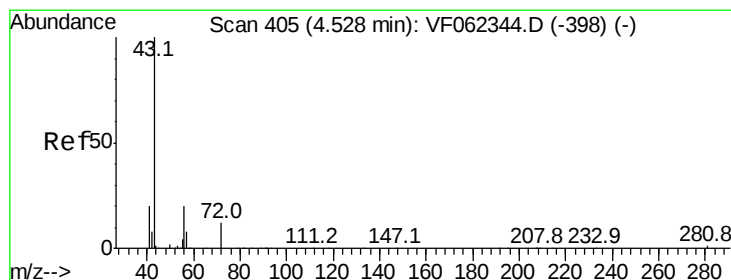
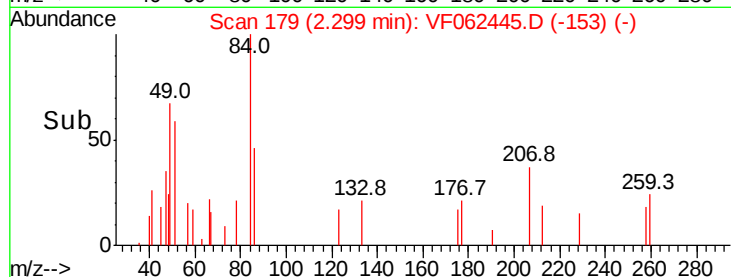
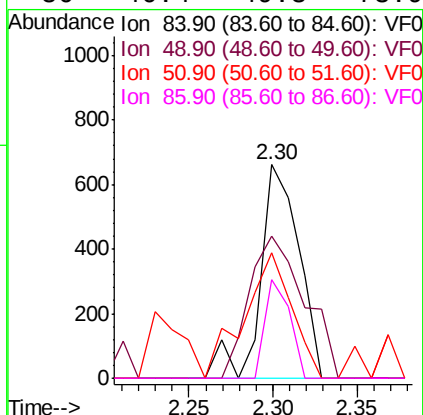
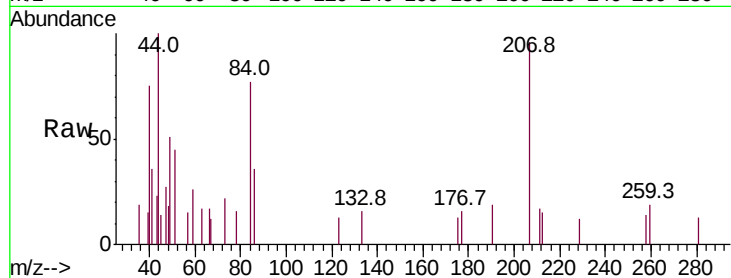




#20
Methvlene Chloride
Concen: 4.579 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

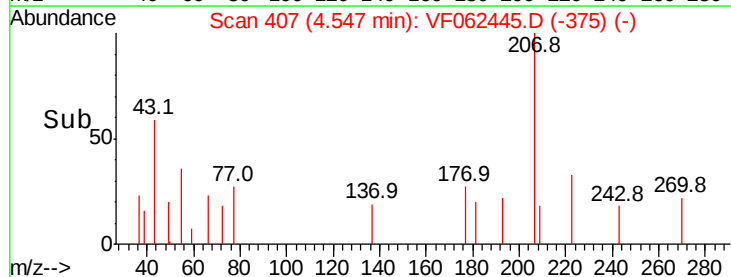
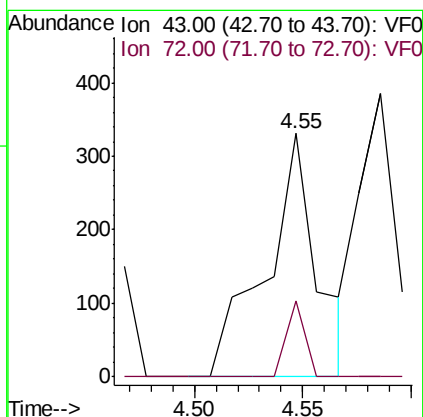
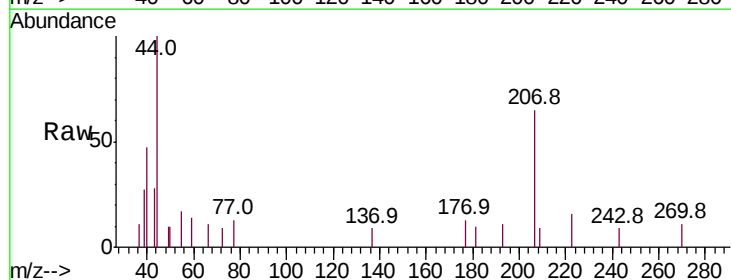
Instrument :
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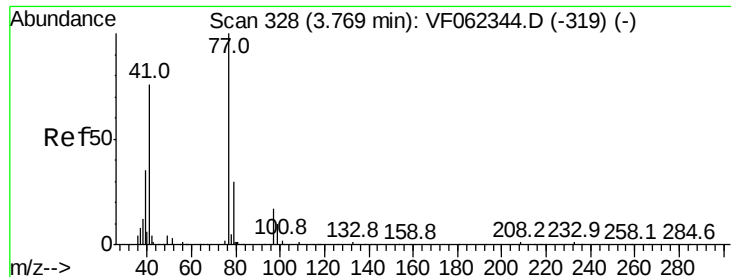
Tot Ion: 84 Resp: 1050
Ion Ratio Lower Upper
84 100
49 66.8 117.5 176.3#
51 58.9 37.0 55.4#
86 46.4 49.3 73.9#



#25
2-Butanone
Concen: 6.832 ug/l
RT: 4.55 min Scan# 407
Delta R.T. 0.02 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

Tgt Ion: 43 Resp: 544
Ion Ratio Lower Upper
43 100
72 31.1 14.2 21.4#





#26

2,2-Dichloropropane

Concen: 2.516 ug/l

RT: 3.97 min Scan# 349

Delta R.T. 0.21 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

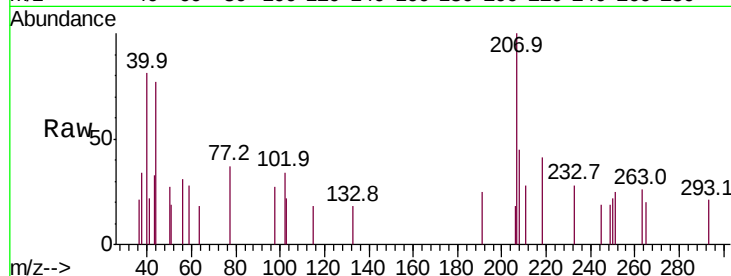
P026-SS011-1824-01

Tot Ion: 77 Resp: 596

Ion Ratio Lower Upper

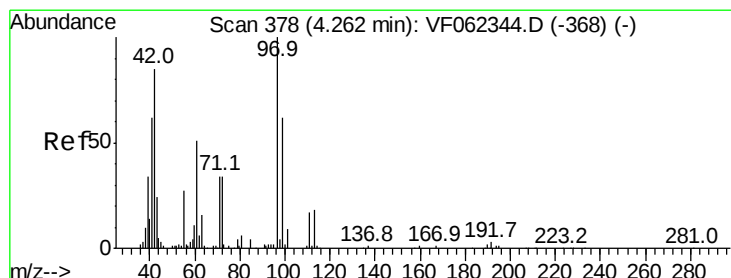
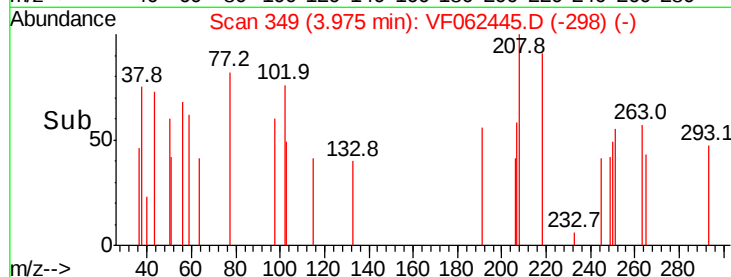
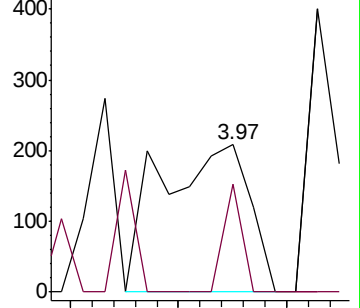
77 100

97 15.1 9.5 28.5



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0



#29

Tetrahydrofuran

Concen: 10.821 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

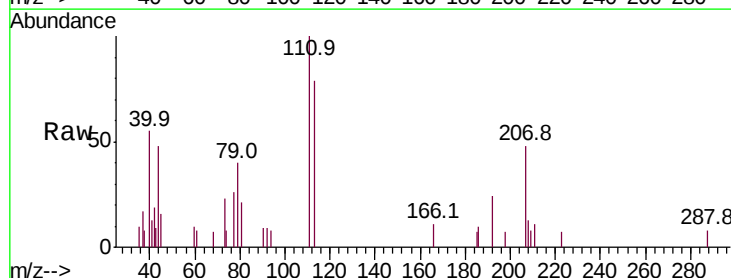
Tgt Ion: 42 Resp: 396

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

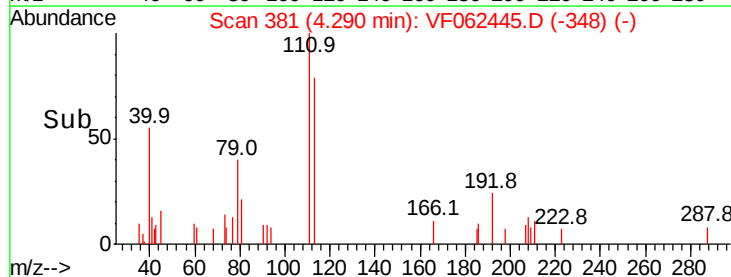
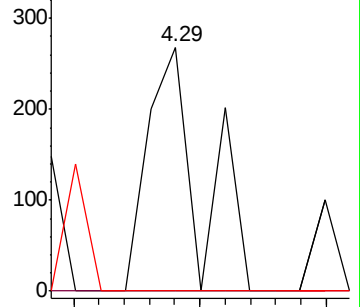
71 0.0 31.7 47.5#

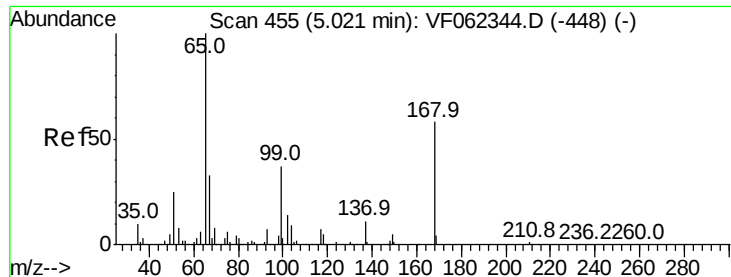


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 17.586 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

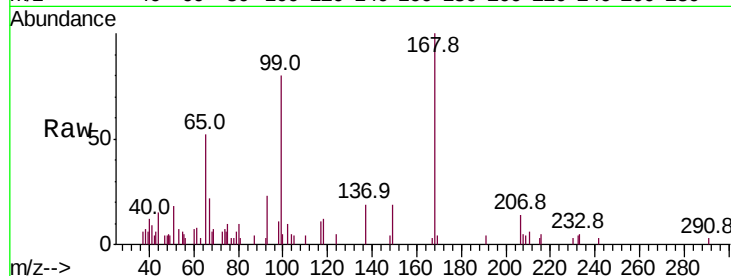
P026-SS011-1824-01

Tot Ion: 65 Resp: 5510

Ion Ratio Lower Upper

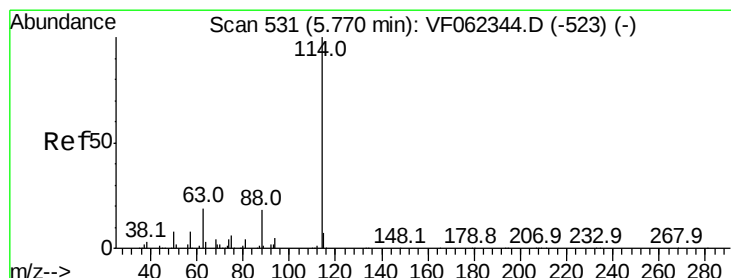
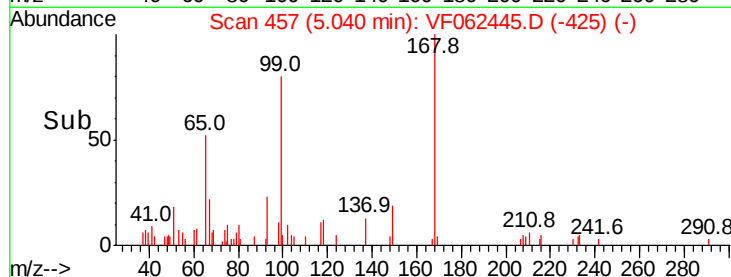
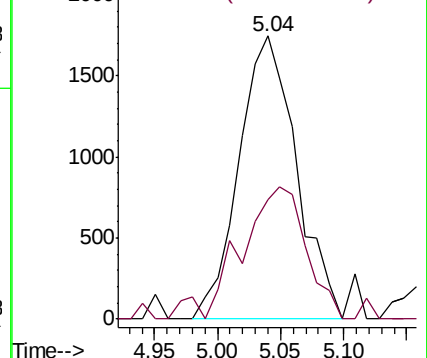
65 100

67 54.2 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

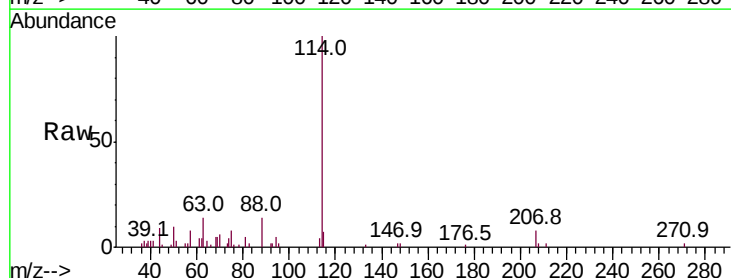
Tgt Ion: 114 Resp: 22485

Ion Ratio Lower Upper

114 100

63 13.8 0.0 37.4

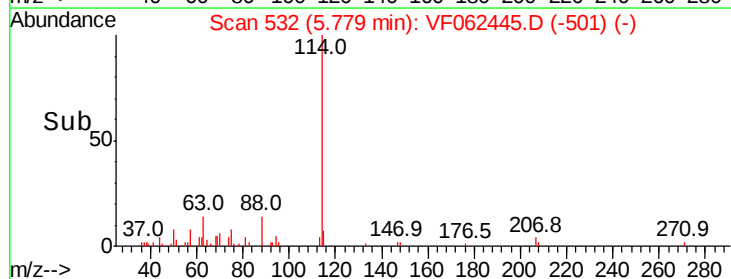
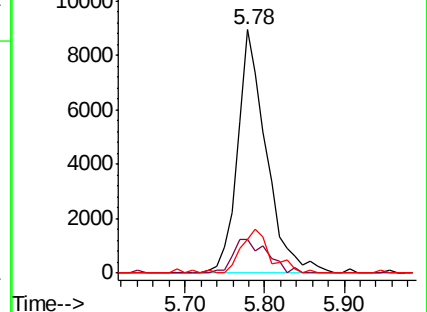
88 14.1 0.0 36.4

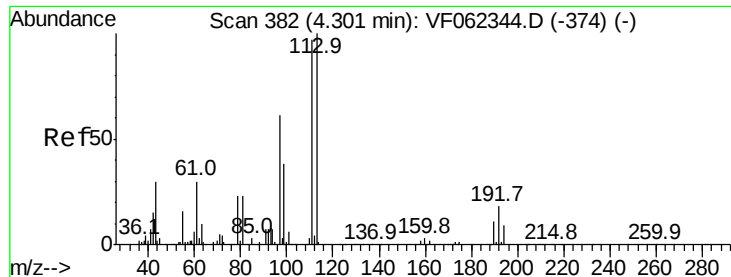


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0





#35

Dibromofluoromethane

Concen: 40.662 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

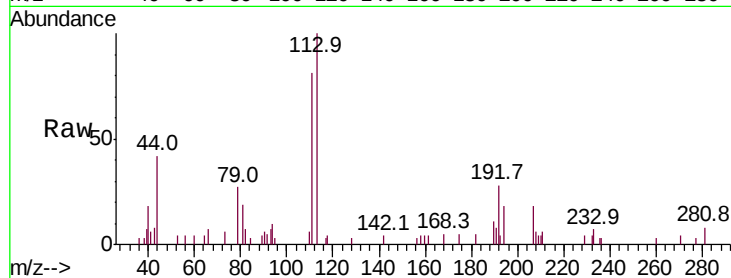
Tot Ion:113 Resp: 7284

Ion Ratio Lower Upper

113 100

111 109.9 79.4 119.0

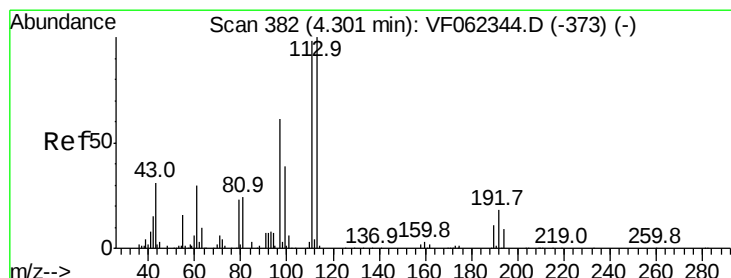
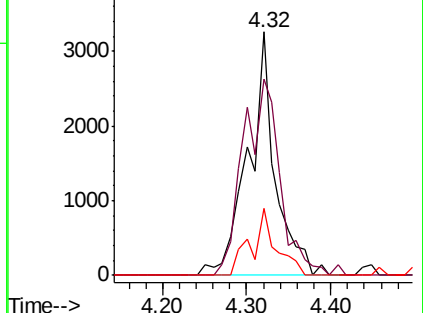
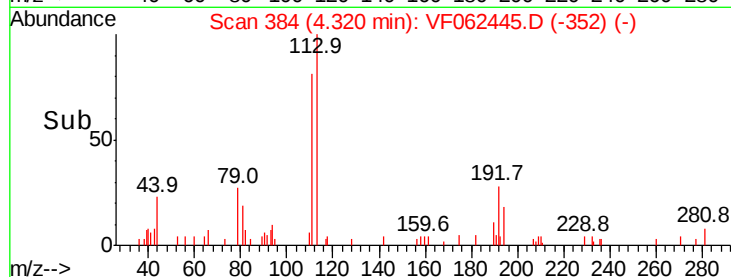
192 25.1 16.0 24.0#



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#37

Ethyl Acetate

Concen: 7.500 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

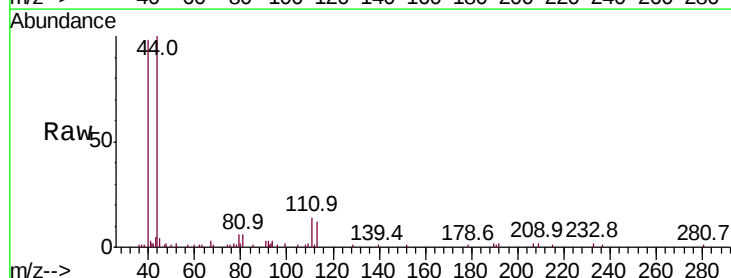
Tgt Ion: 43 Resp: 901

Ion Ratio Lower Upper

43 100

61 15.4 0.0 0.0#

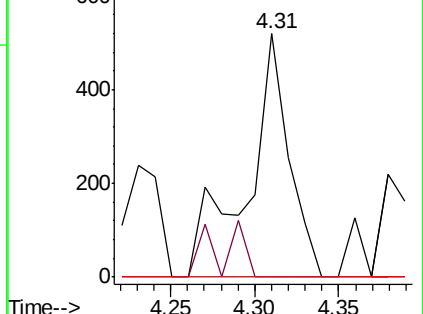
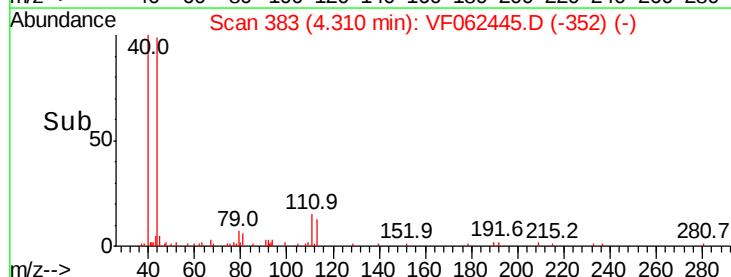
70 0.0 8.2 12.2#

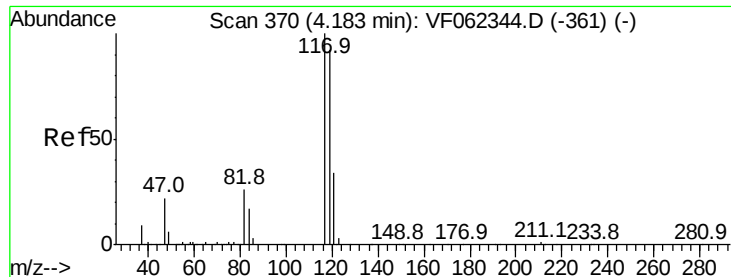


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0

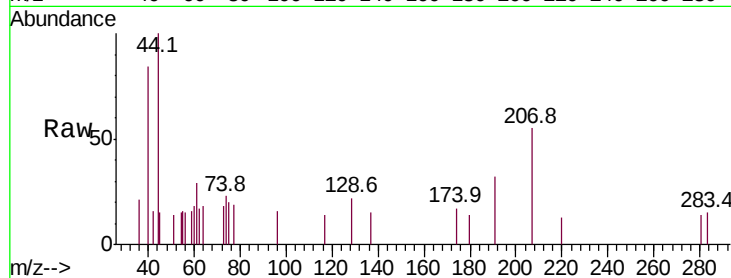




#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.10 min Scan# 362
Delta R.T. -0.08 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1824-01

Tot Ion	Ratio	Lower	Upper
117	100		
119	0.0	73.4	110.2#
121	0.0	27.4	41.0#

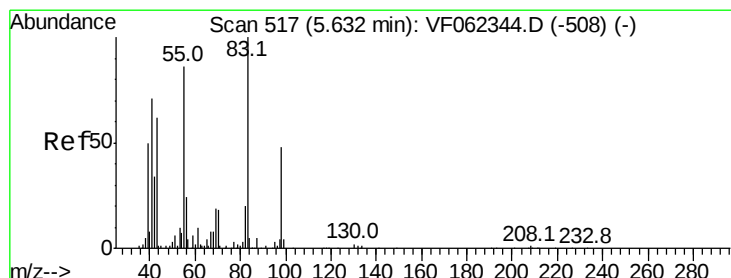
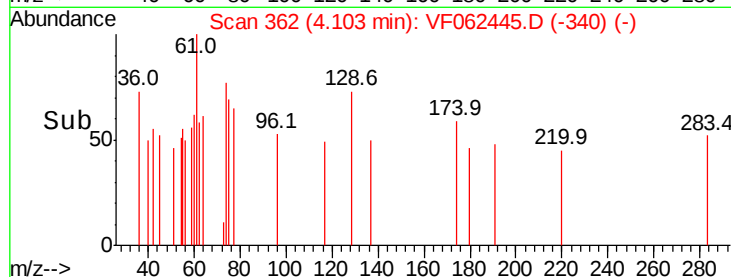
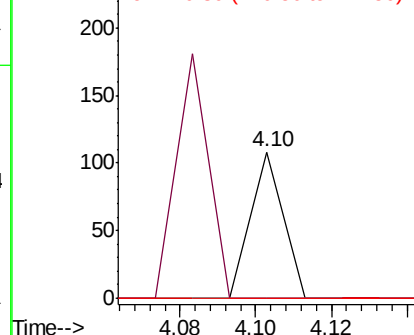


Abundance

Ion 116.80 (116.50 to 117.50): V

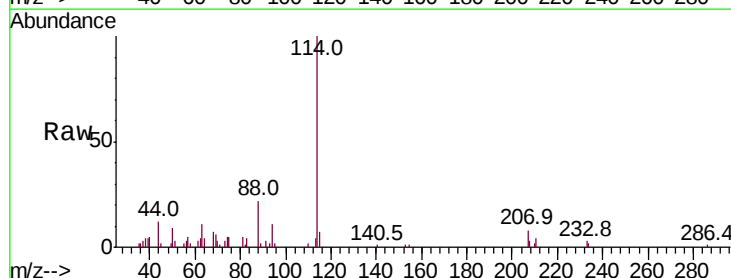
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39
Methylcyclohexane
Concen: 2.101 ug/l
RT: 5.79 min Scan# 533
Delta R.T. 0.16 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

Tgt Ion	Ratio	Lower	Upper
83	100		
55	42.2	69.0	103.6#
98	0.0	38.6	58.0#

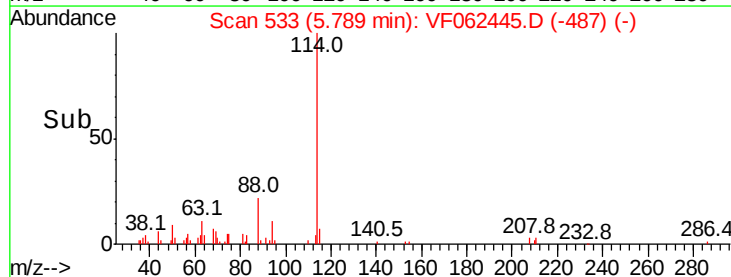
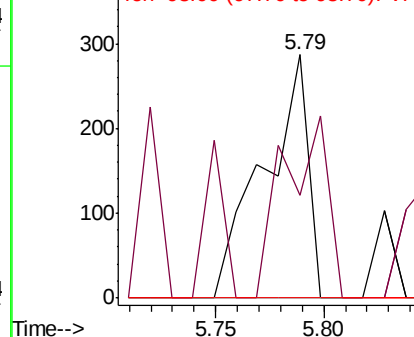


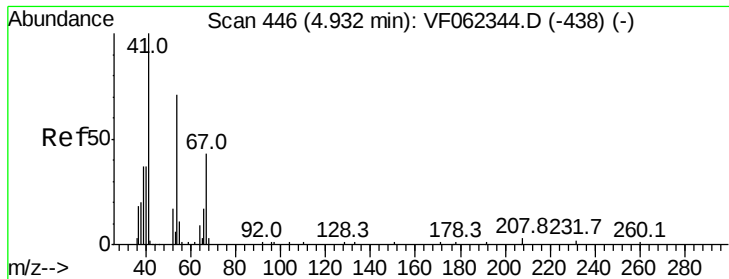
Abundance

Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 4.685 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

Tot Ion: 41 Resp: 217

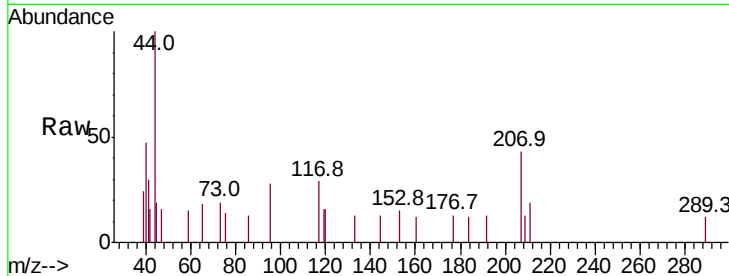
Ion Ratio Lower Upper

41 100

39 488.9 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

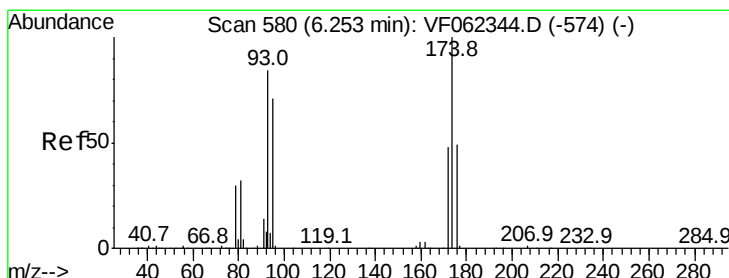
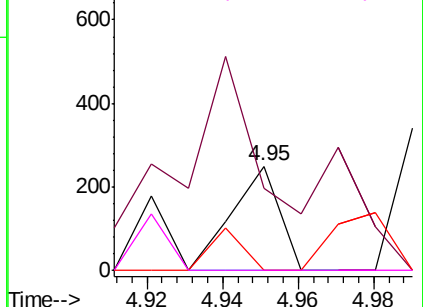
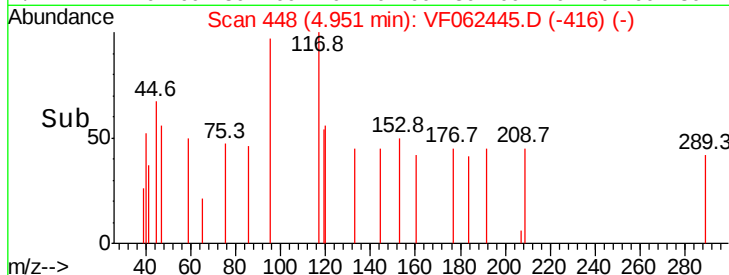


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#46

Dibromomethane

Concen: 1.077 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.03 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

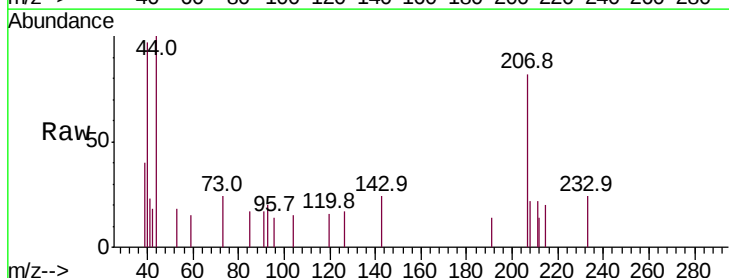
Tgt Ion: 93 Resp: 86

Ion Ratio Lower Upper

93 100

95 0.0 68.4 102.6#

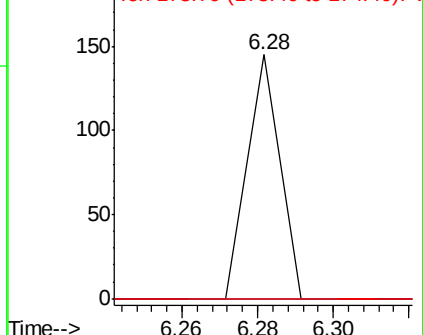
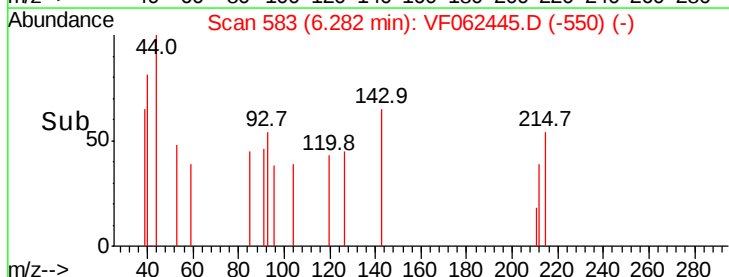
174 0.0 99.6 149.4#

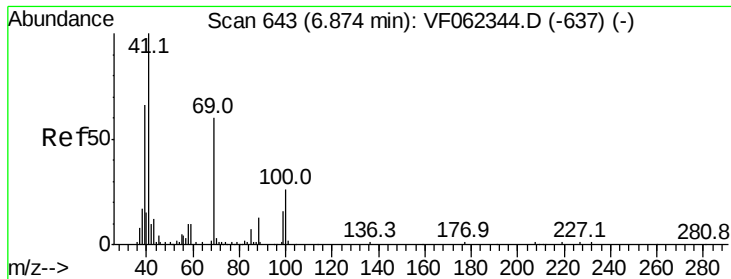


Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V





#48

Methyl methacrylate

Concen: 6.282 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.01 min

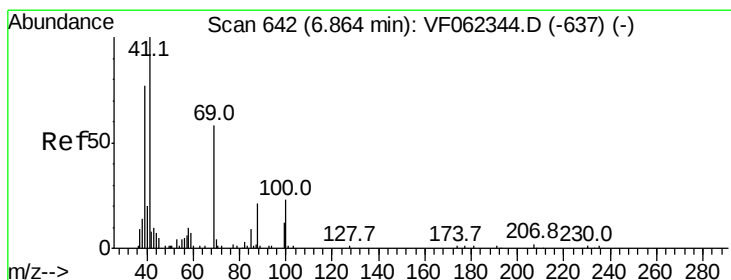
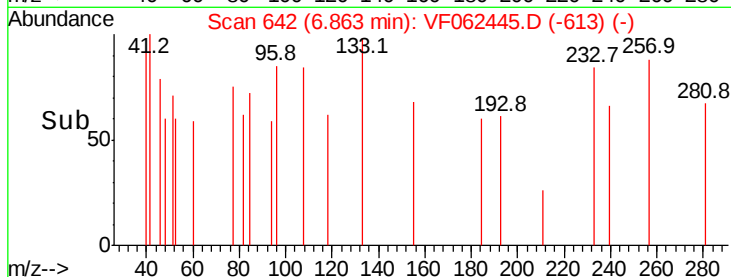
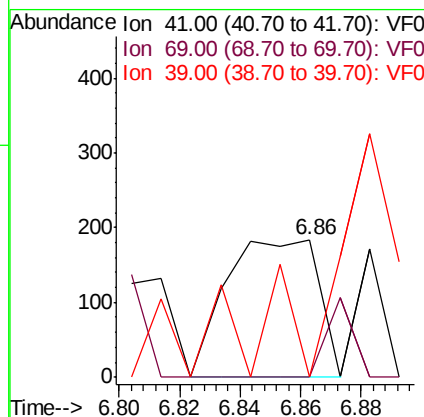
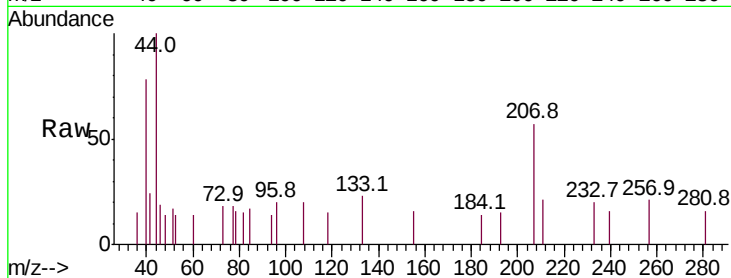
Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1824-01

Tot Ion: 41 Resp: 390

Ion	Ratio	Lower	Upper
41	100		
69	16.2	48.6	72.8#
39	120.0	56.1	84.1#



#49

1,4-Dioxane

Concen: 108.942 ug/l

RT: 6.79 min Scan# 635

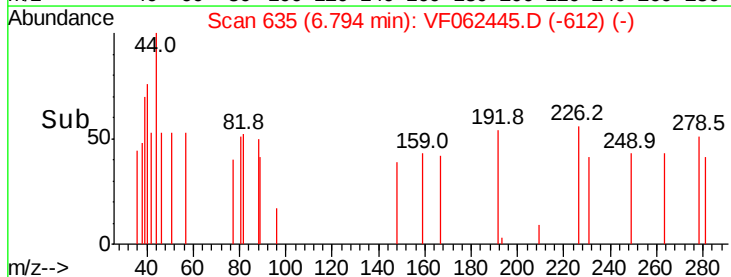
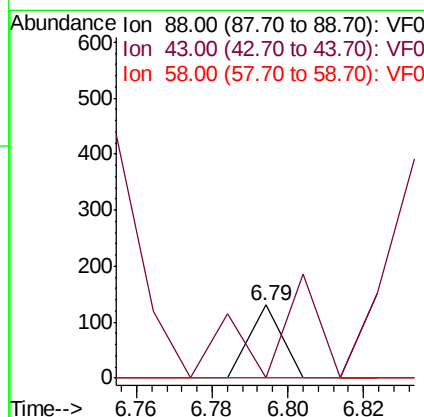
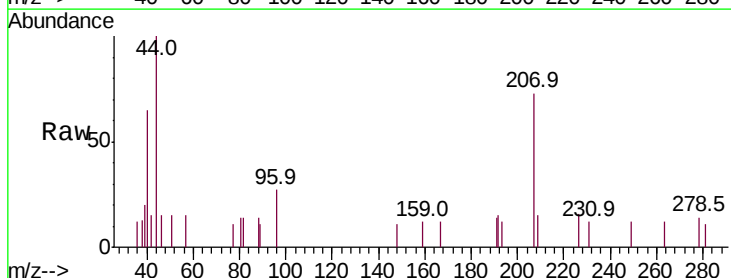
Delta R.T. -0.07 min

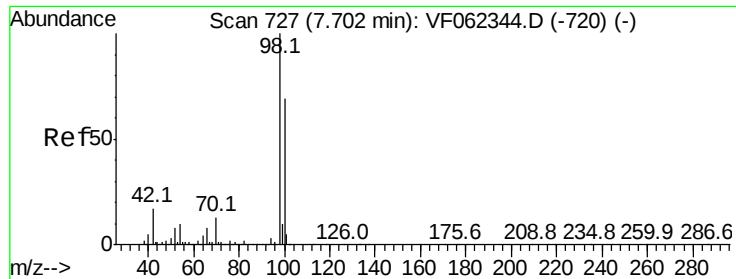
Lab File: VF062445.D

Acq: 11 May 2019 4:07

Tgt Ion: 88 Resp: 77

Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.6	83.4#
58	0.0	52.8	79.2#





#50

Toluene-d8

Concen: 36.758 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

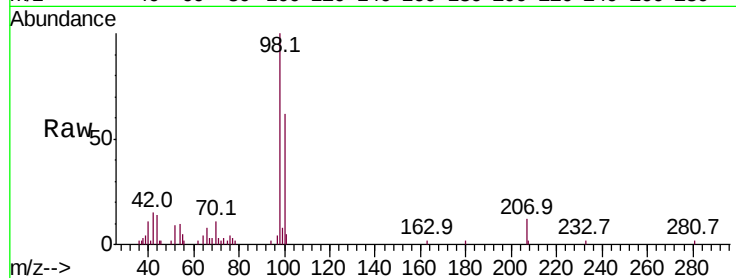
P026-SS011-1824-01

Tot Ion: 98 Resp: 15939

Ion Ratio Lower Upper

98 100

100 66.7 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

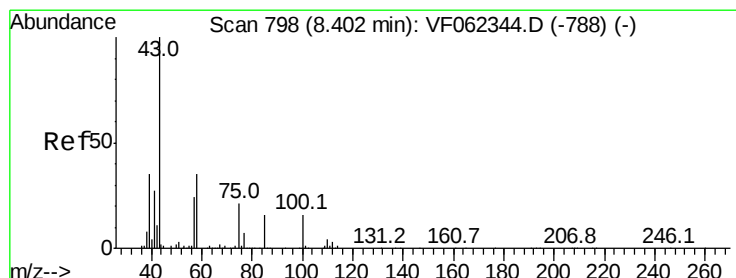
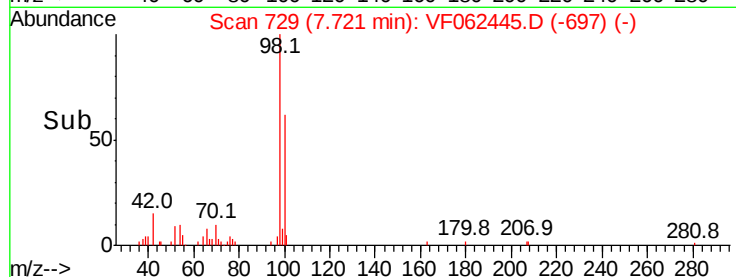
6000

4000

2000

0

Time--> 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 2.313 ug/l

RT: 8.61 min Scan# 819

Delta R.T. 0.21 min

Lab File: VF062445.D

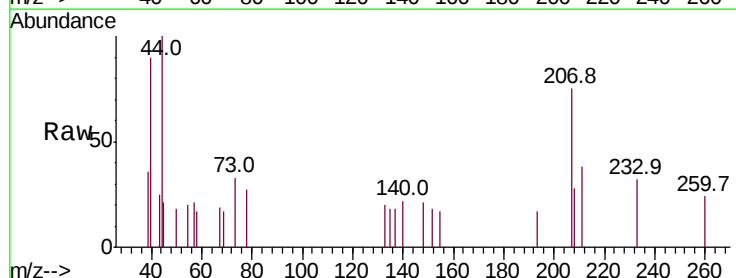
Acq: 11 May 2019 4:07

Tgt Ion: 43 Resp: 154

Ion Ratio Lower Upper

43 100

58 40.3 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.61

200

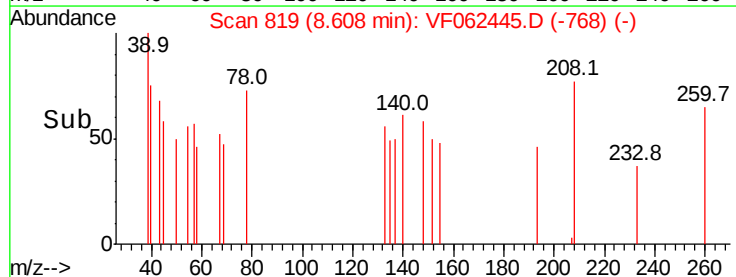
150

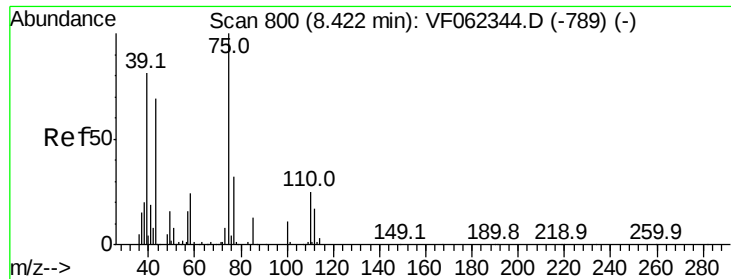
100

50

0

Time--> 8.58 8.60 8.62 8.64





#53

t-1,3-Dichloropropene

Concen: 1.192 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

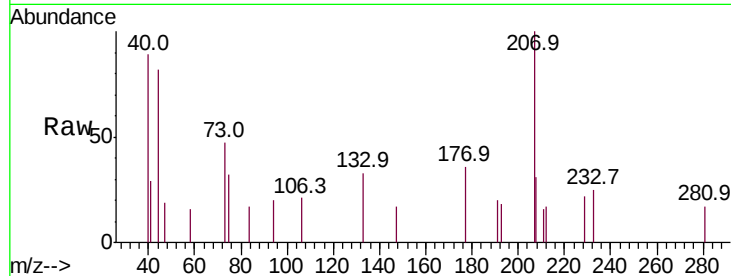
P026-SS011-1824-01

Tot Ion: 75 Resp: 180

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

300

250

200

150

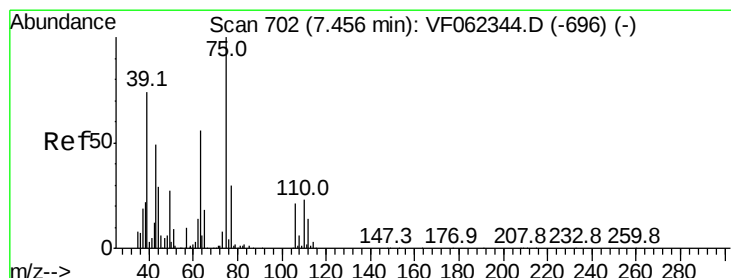
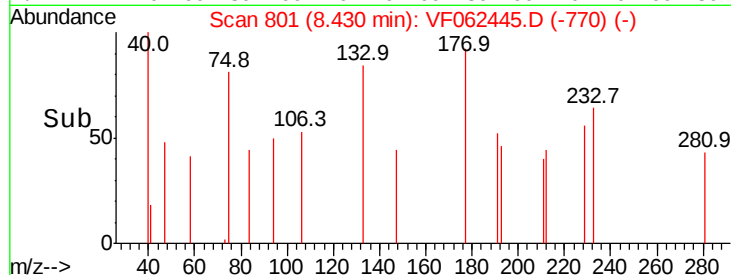
100

50

0

8.38 8.40 8.42 8.44 8.46

Time-->



#54

cis-1,3-Dichloropropene

Concen: 1.092 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

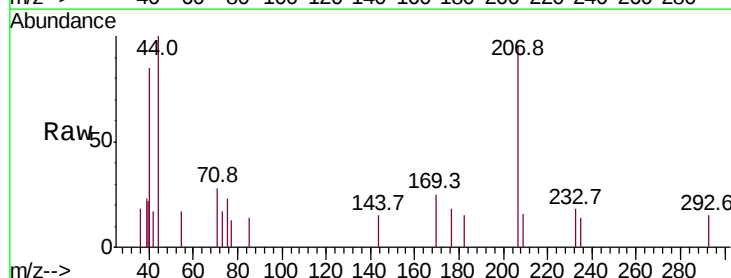
Tgt Ion: 75 Resp: 192

Ion Ratio Lower Upper

75 100

77 57.5 24.0 36.0#

39 193.9 58.7 88.1#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0

400

300

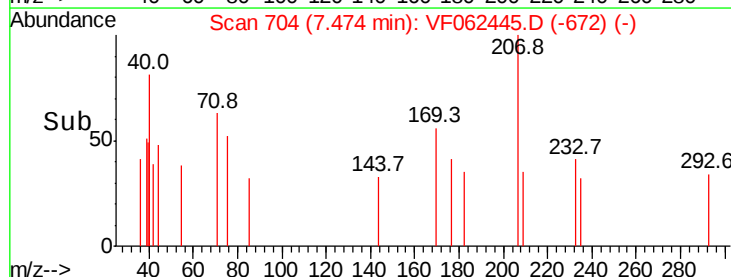
200

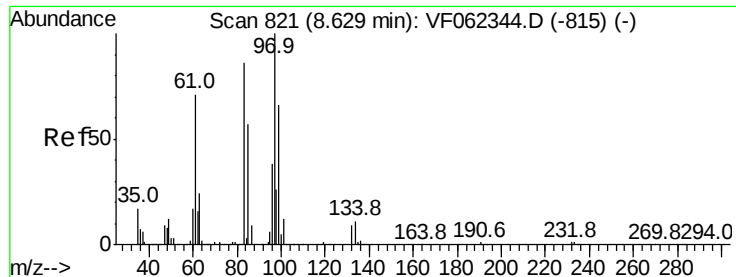
100

0

7.44 7.46 7.48 7.50

Time-->





#55

1,1,2-Trichloroethane

Concen: 1.092 ug/l

RT: 8.65 min Scan# 823

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

Tot Ion: 97 Resp: 91

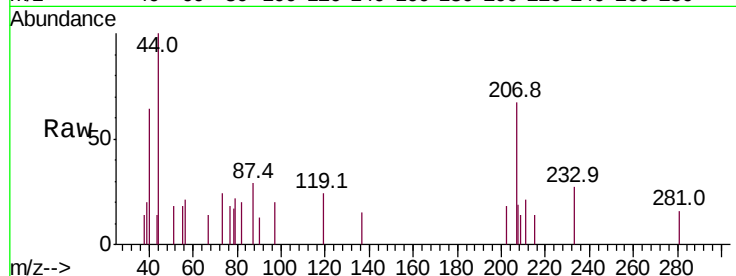
Ion Ratio Lower Upper

97 100

83 0.0 68.5 102.7#

85 0.0 45.4 68.2#

99 0.0 52.7 79.1#

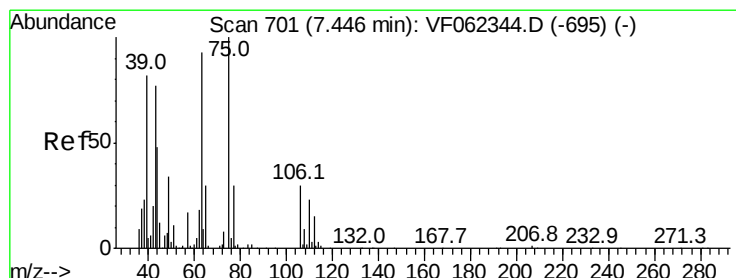
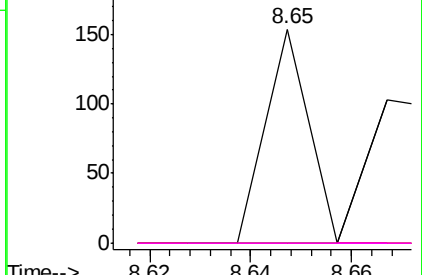
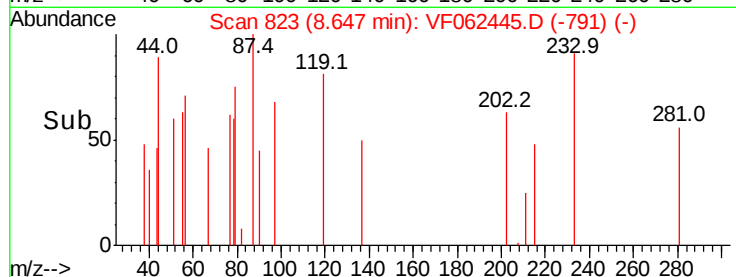


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 2.837 ug/l

RT: 7.41 min Scan# 697

Delta R.T. -0.04 min

Lab File: VF062445.D

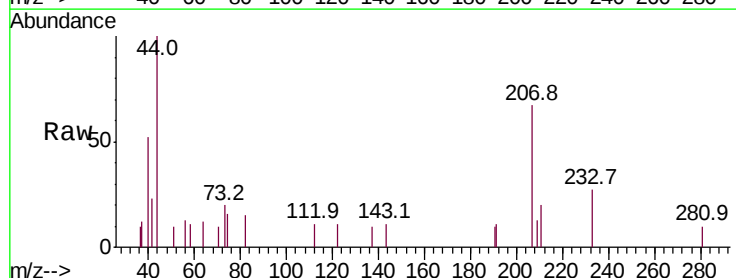
Acq: 11 May 2019 4:07

Tgt Ion: 63 Resp: 75

Ion Ratio Lower Upper

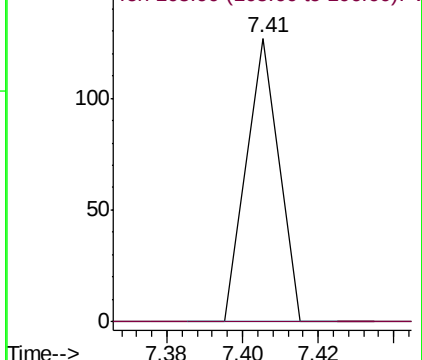
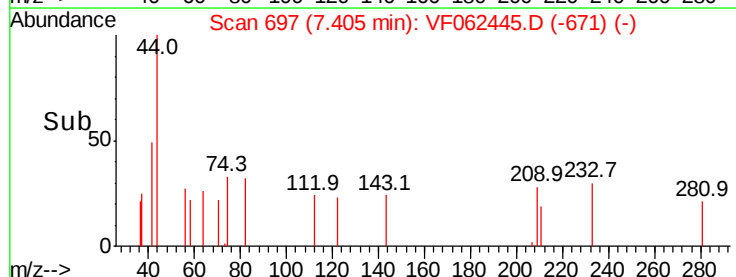
63 100

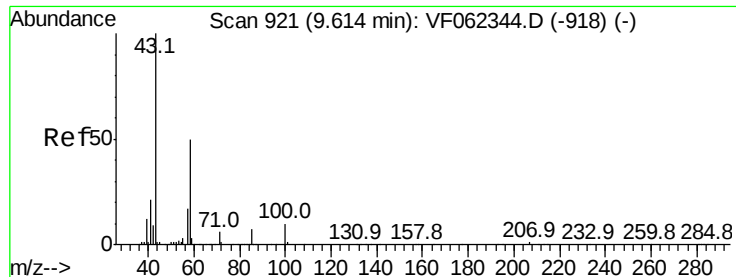
106 0.0 25.8 38.8#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

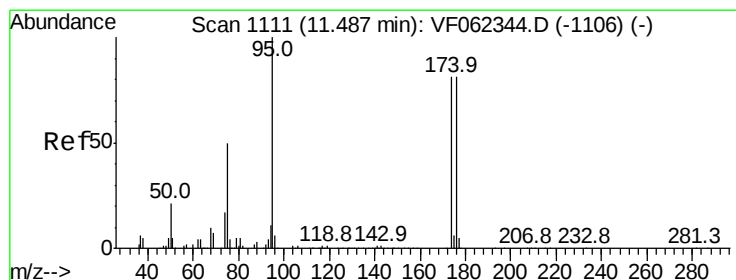
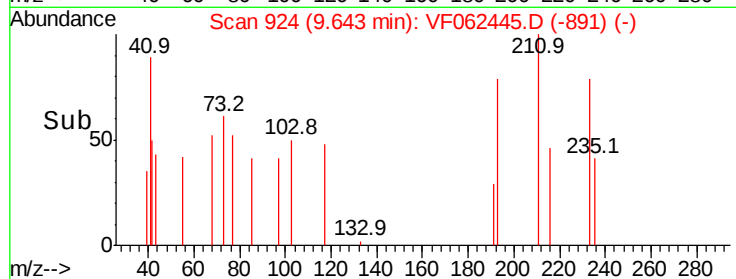
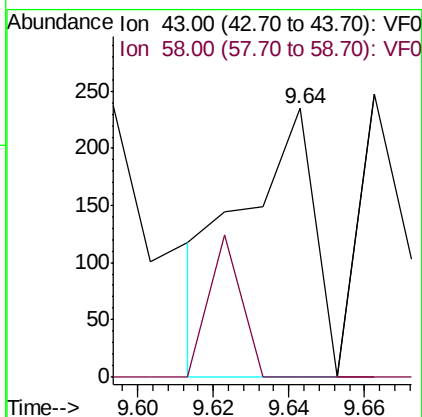
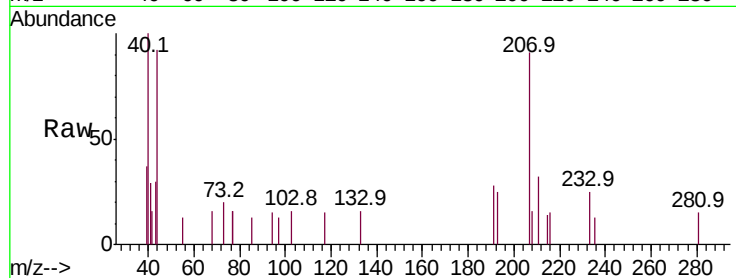




#59
2-Hexanone
Concen: 6.776 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

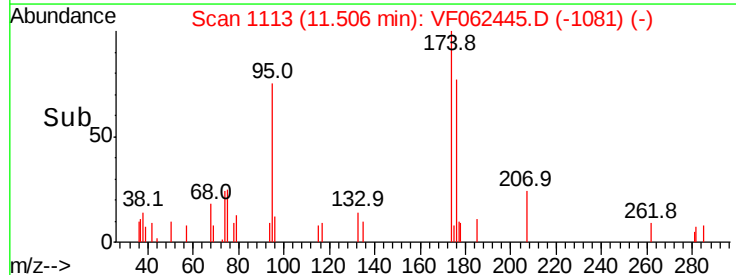
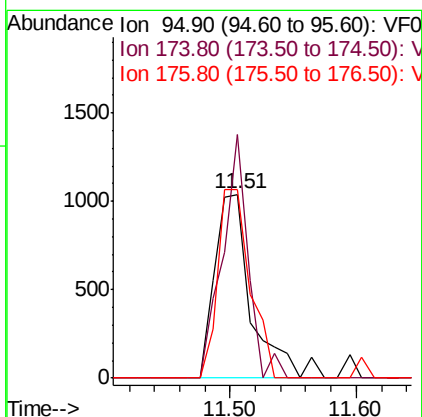
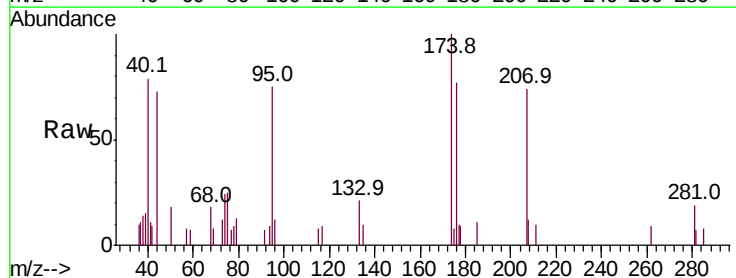
Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1824-01

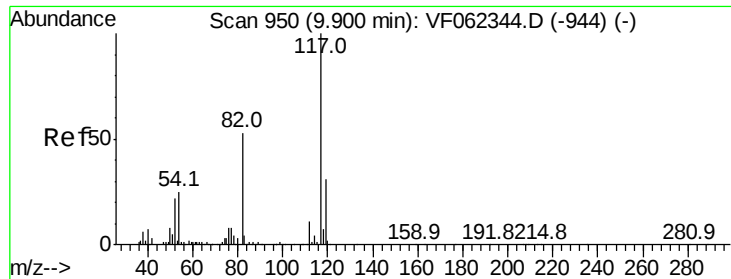
Tot Ion: 43 Resp: 312
Ion Ratio Lower Upper
43 100
58 23.4 24.3 73.0#



#62
4-Bromofluorobenzene
Concen: 10.816 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

Tgt Ion: 95 Resp: 2116
Ion Ratio Lower Upper
95 100
174 90.2 0.0 191.8
176 89.8 0.0 193.2

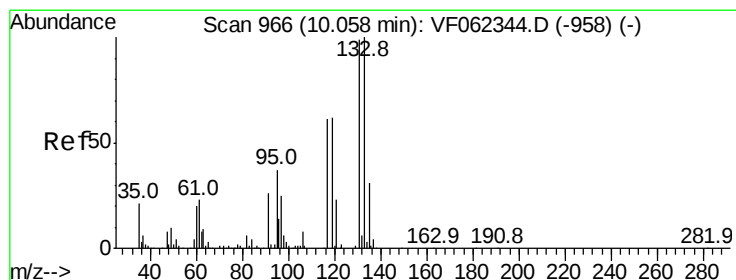
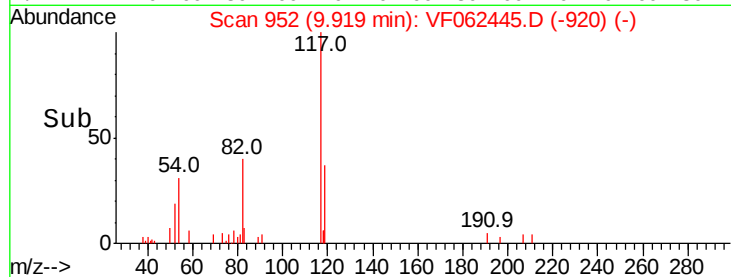
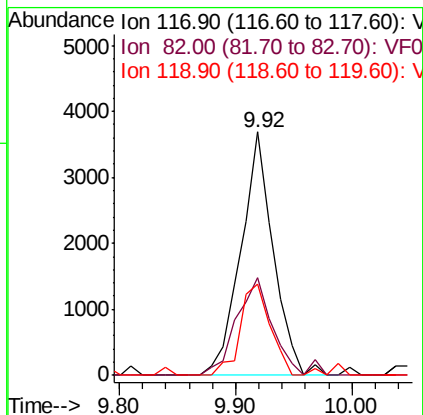
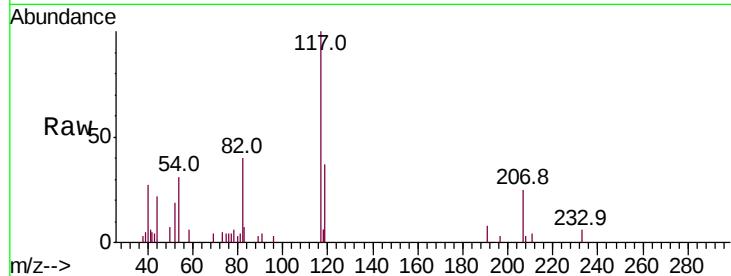




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

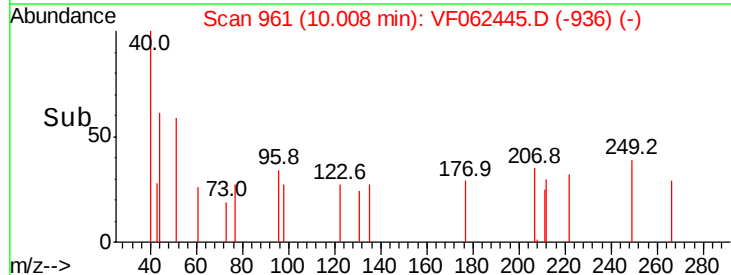
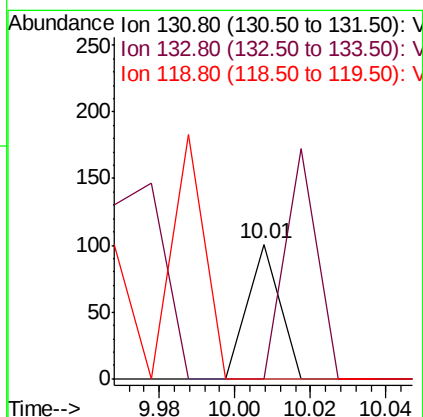
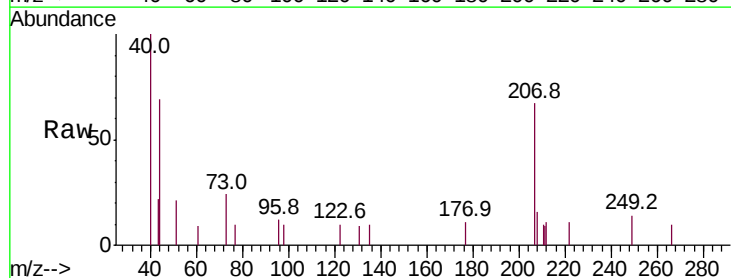
Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-1824-01

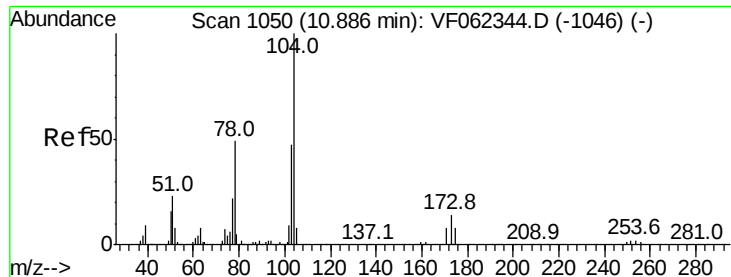
Tot Ion	Ratio	Lower	Upper
117	100		
82	40.0	42.2	63.2#
119	37.3	25.0	37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 1.009 ug/l
RT: 10.01 min Scan# 961
Delta R.T. -0.05 min
Lab File: VF062445.D
Acq: 11 May 2019 4:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	170.0	50.2	150.7#
119	0.0	31.6	95.0#





#70

Stvrene

Concen: 1.313 ug/l

RT: 10.99 min Scan# 1061

Delta R.T. 0.11 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

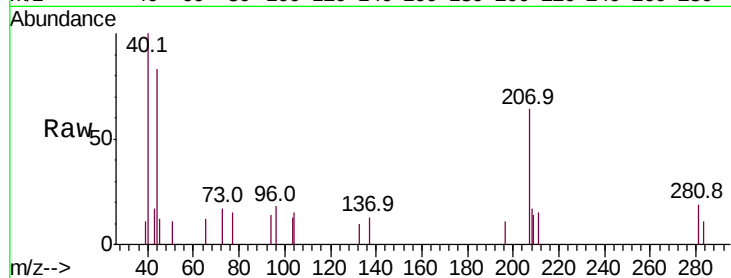
Tot Ion:104 Resp: 162

Ion Ratio Lower Upper

104 100

78 95.1 39.5 59.3#

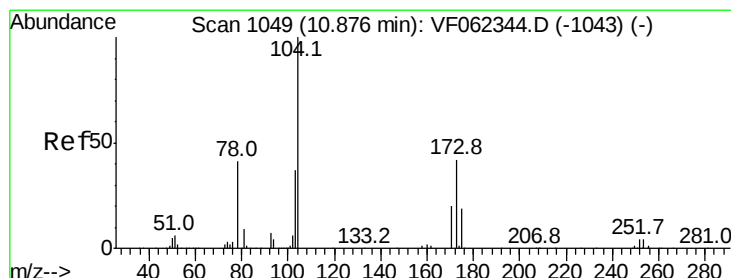
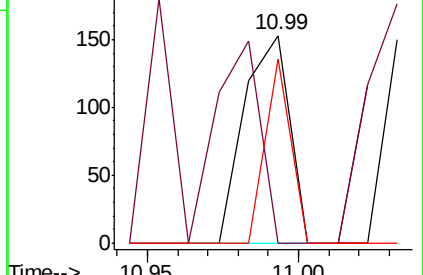
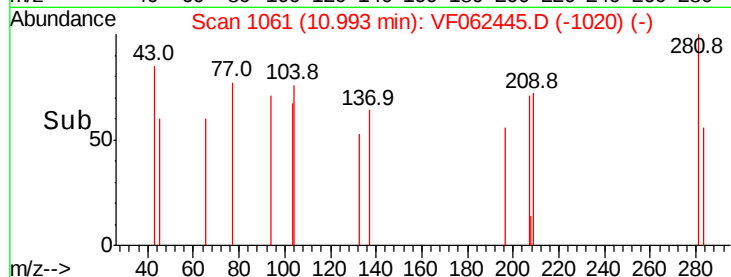
103 49.4 38.4 57.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.302 ug/l

RT: 10.87 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

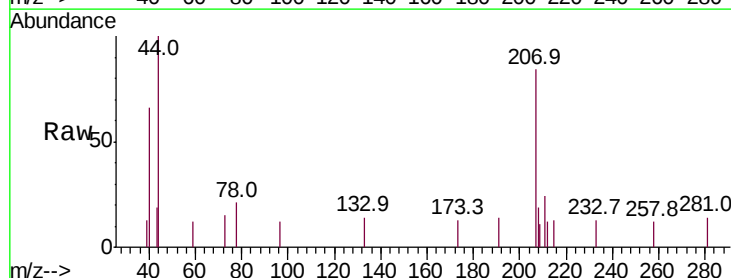
Tgt Ion:173 Resp: 75

Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.2#

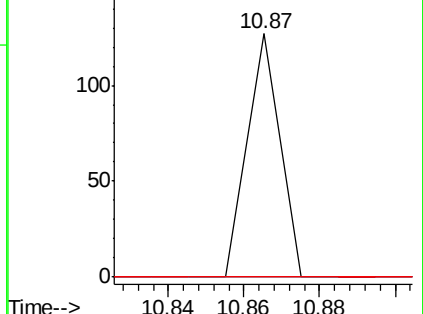
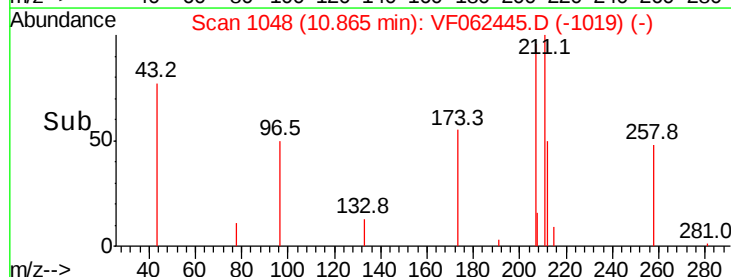
254 0.0 0.1 0.1#

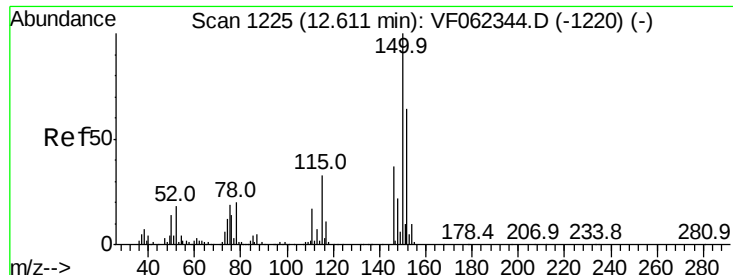


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

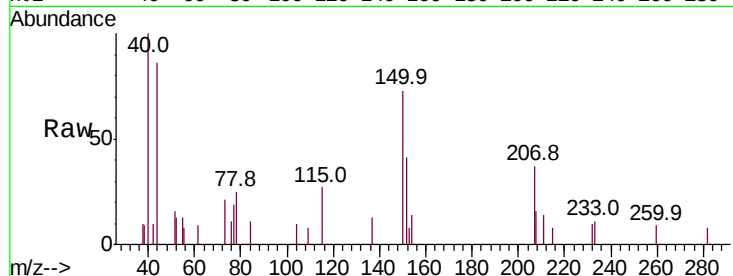
Tot Ion:152 Resp: 814

Ion Ratio Lower Upper

152 100

115 60.9 26.4 79.2

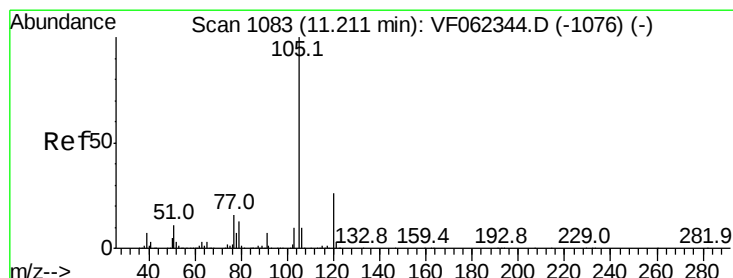
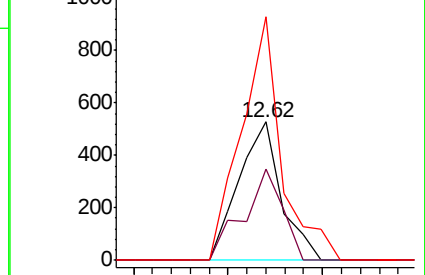
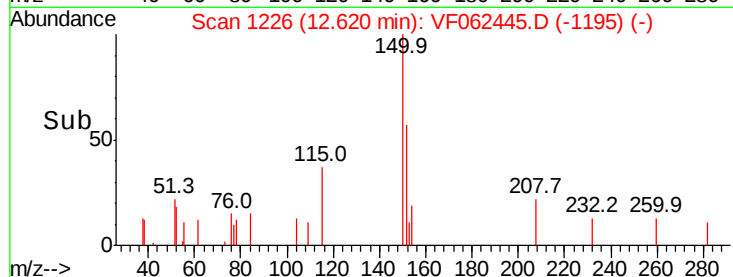
150 167.0 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 8.144 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062445.D

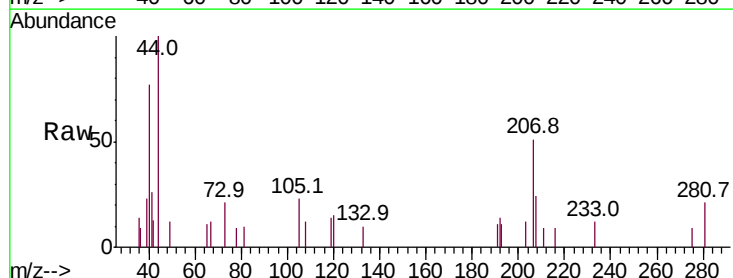
Acq: 11 May 2019 4:07

Tgt Ion:105 Resp: 393

Ion Ratio Lower Upper

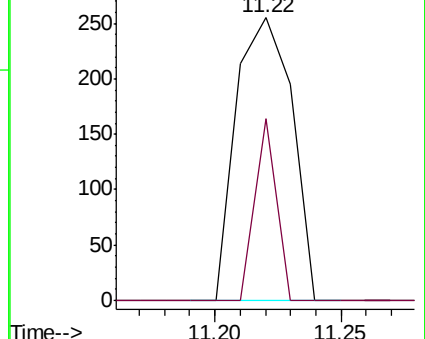
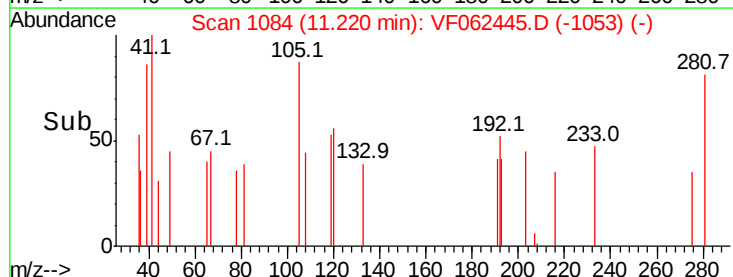
105 100

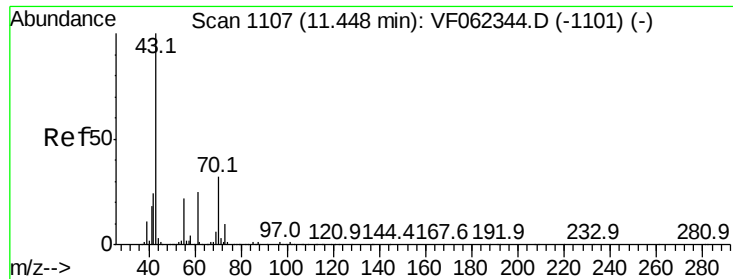
120 24.7 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 27.027 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

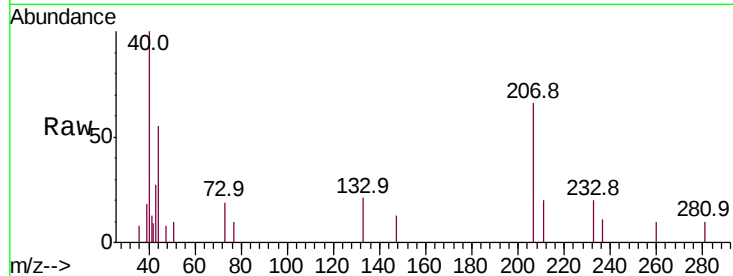
MSVOA_F

ClientSampleId :

P026-SS011-1824-01

Tot Ion: 43 Resp: 280

Ion	Ratio	Lower	Upper
43	100		
70	0.0	26.5	39.7#
55	0.0	17.8	26.6#
61	0.0	20.2	30.2#



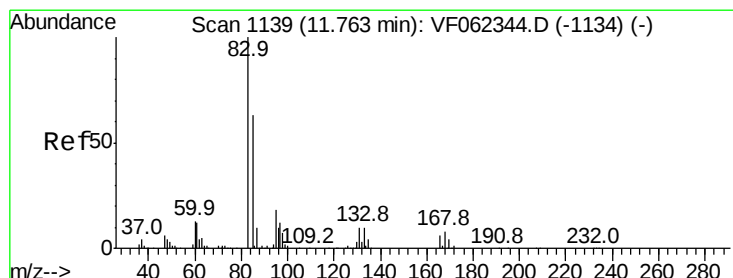
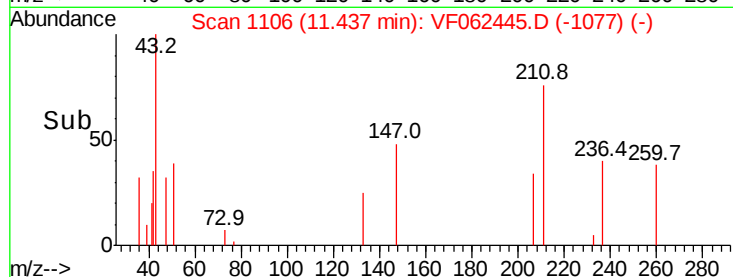
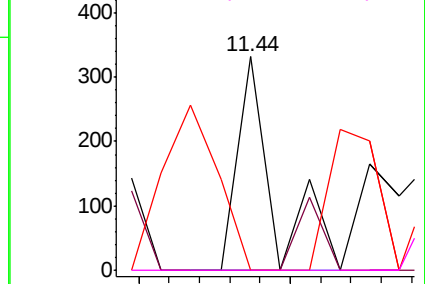
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 12.838 ug/l

RT: 11.96 min Scan# 1159

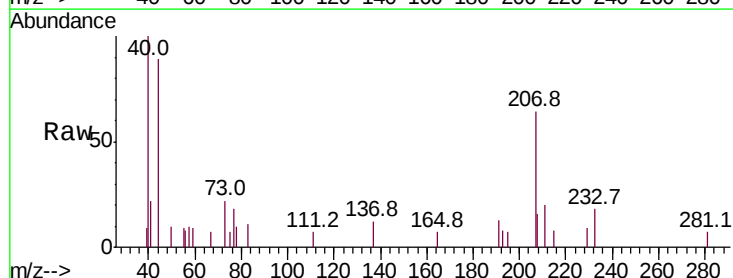
Delta R.T. 0.20 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Tgt Ion: 83 Resp: 97

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.8	17.4#
85	0.0	35.3	105.7#

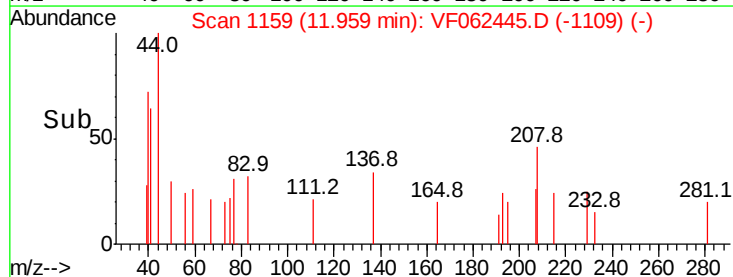
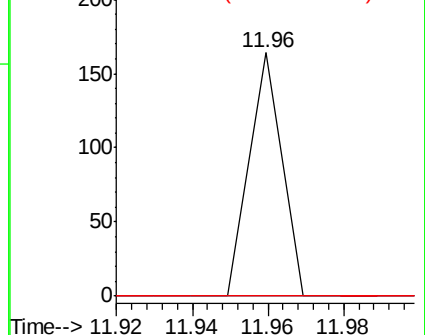


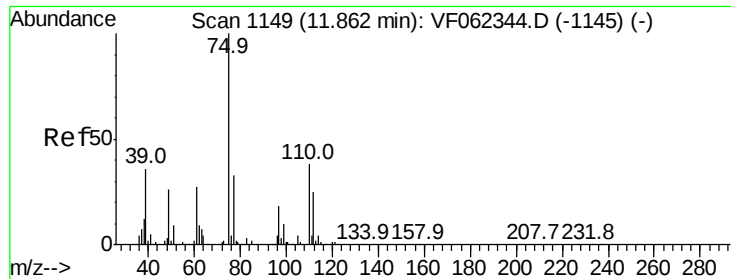
Abundance

Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0





#76

1,2,3-Trichloropropane

Concen: 18.041 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.05 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

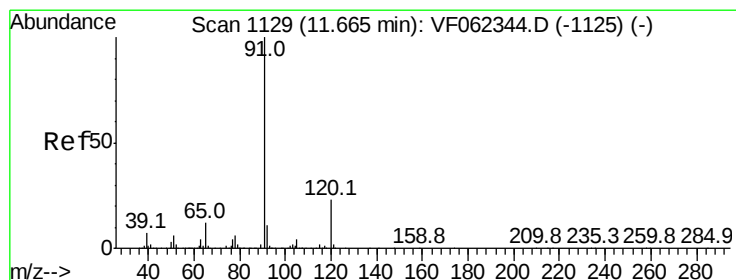
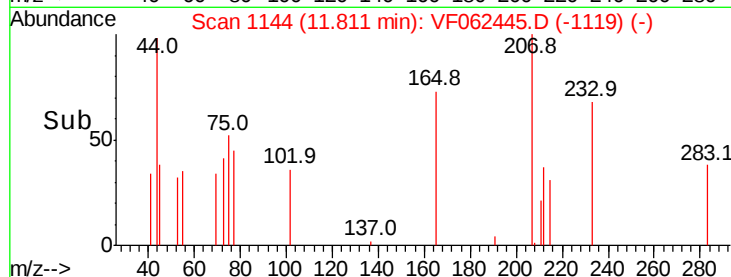
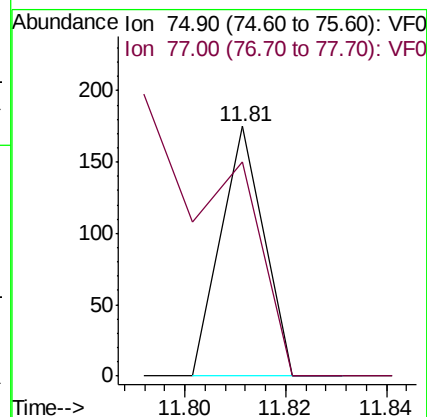
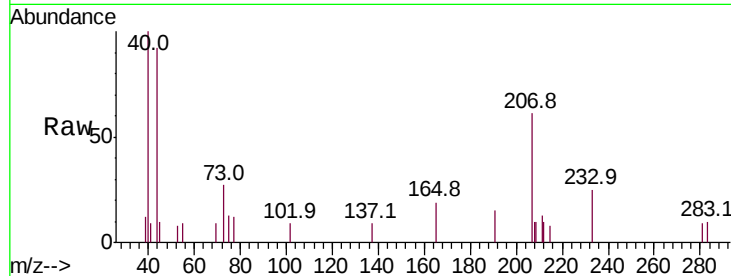
P026-SS011-1824-01

Tot Ion: 75 Resp: 104

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#78

n-propylbenzene

Concen: 5.878 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VF062445.D

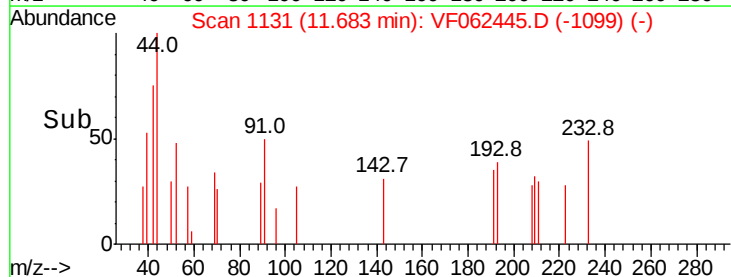
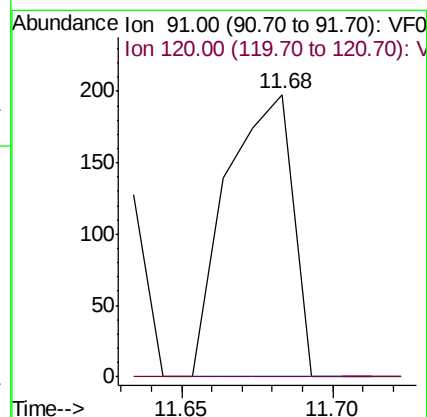
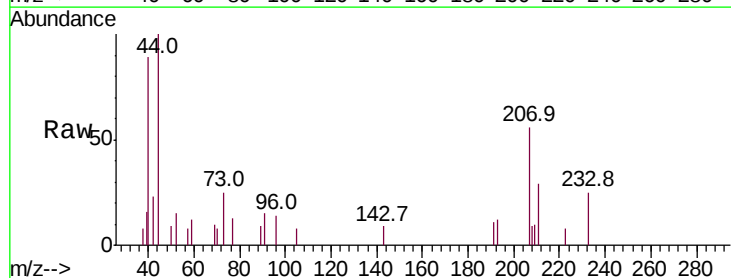
Acq: 11 May 2019 4:07

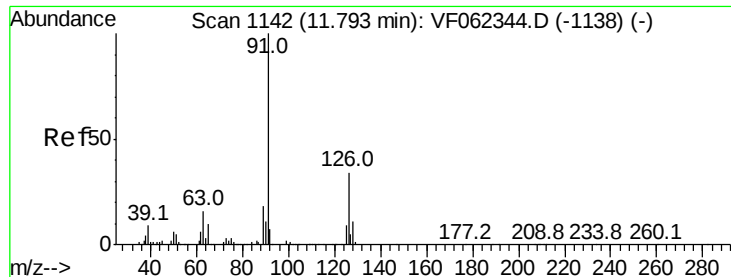
Tgt Ion: 91 Resp: 302

Ion Ratio Lower Upper

91 100

120 0.0 11.9 35.5#





#79

2-Chlorotoluene

Concen: 9.453 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.11 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

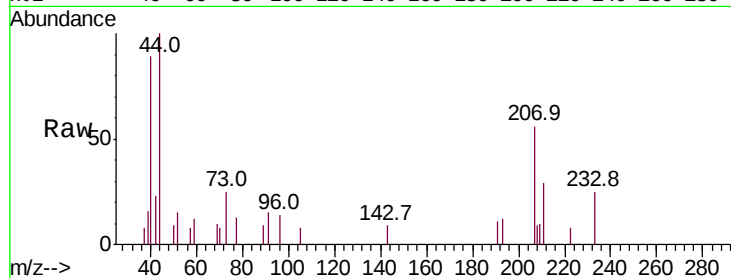
P026-SS011-1824-01

Tot Ion: 91 Resp: 302

Ion Ratio Lower Upper

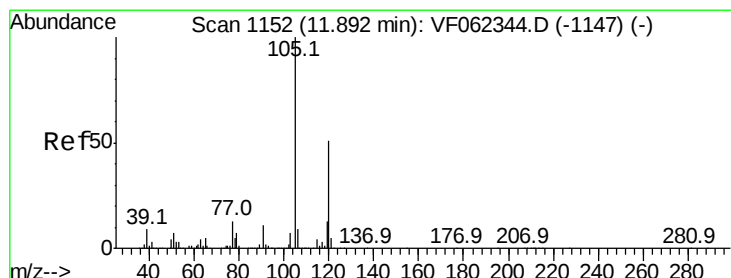
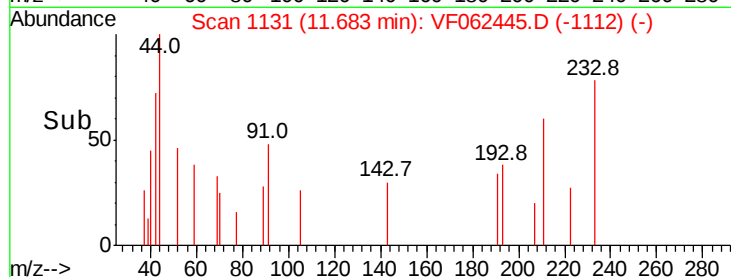
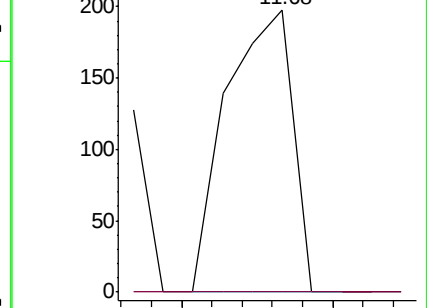
91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.901 ug/l

RT: 12.00 min Scan# 1163

Delta R.T. 0.11 min

Lab File: VF062445.D

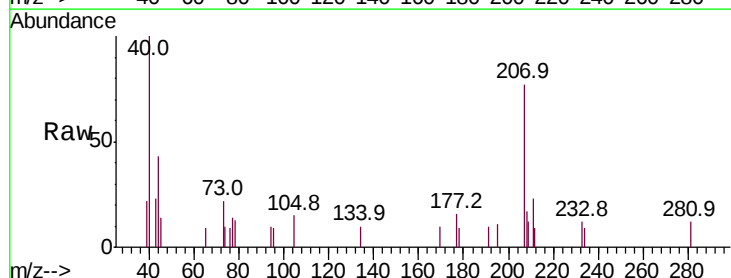
Acq: 11 May 2019 4:07

Tgt Ion:105 Resp: 165

Ion Ratio Lower Upper

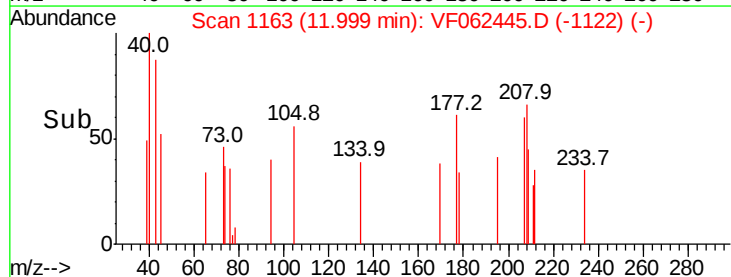
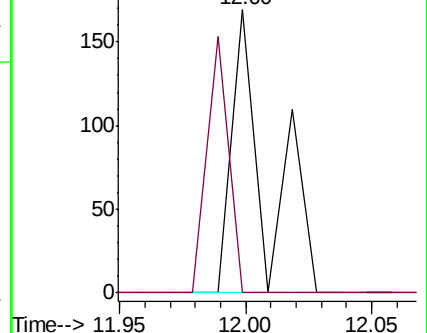
105 100

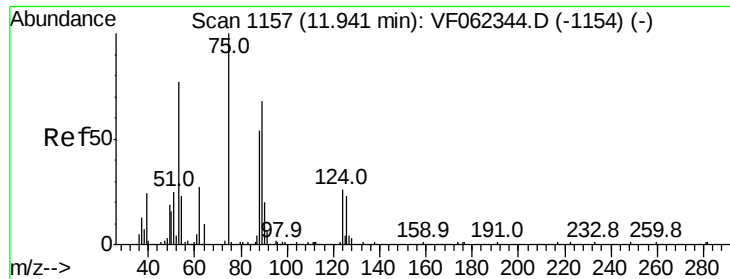
120 54.5 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 30.459 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

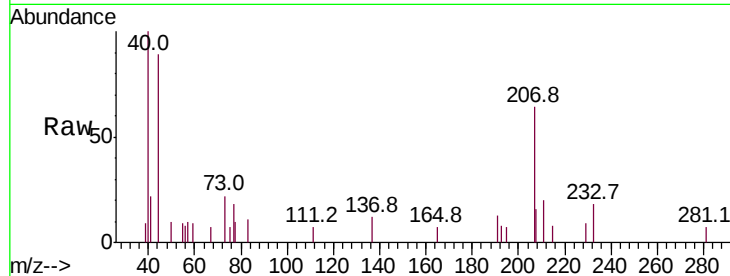
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

53 90.9 71.9 107.9

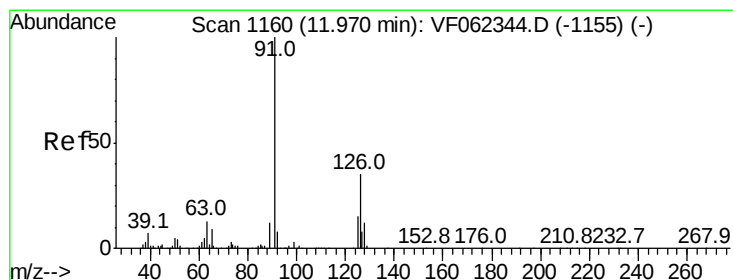
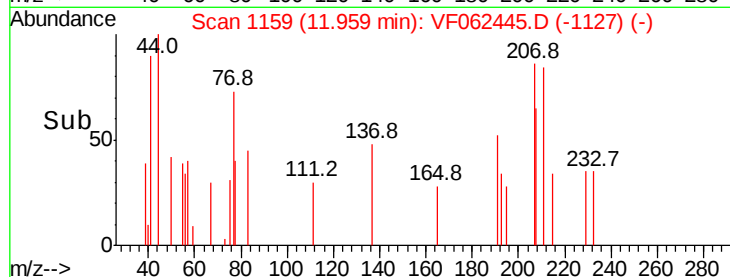
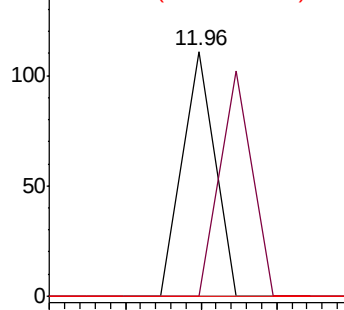
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 1.902 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062445.D

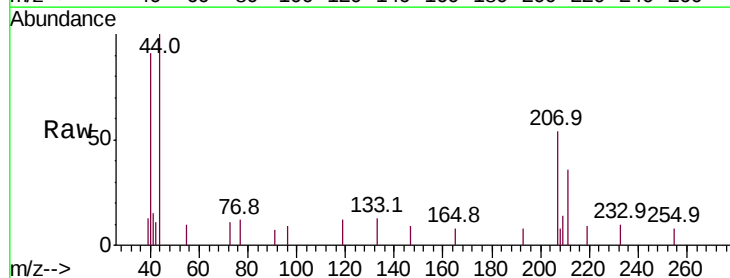
Acq: 11 May 2019 4:07

Tgt Ion: 91 Resp: 60

Ion Ratio Lower Upper

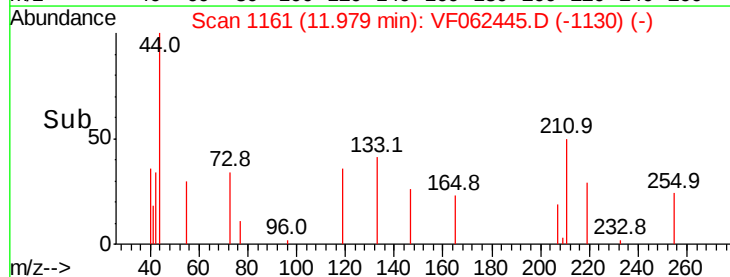
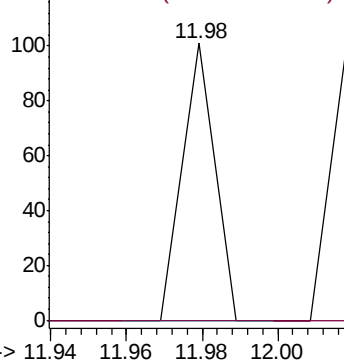
91 100

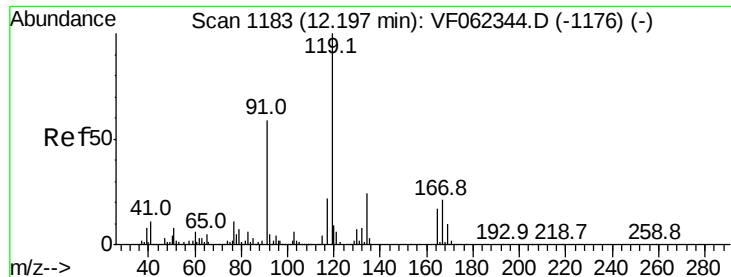
126 0.0 17.7 53.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 1.980 ug/l

RT: 12.21 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

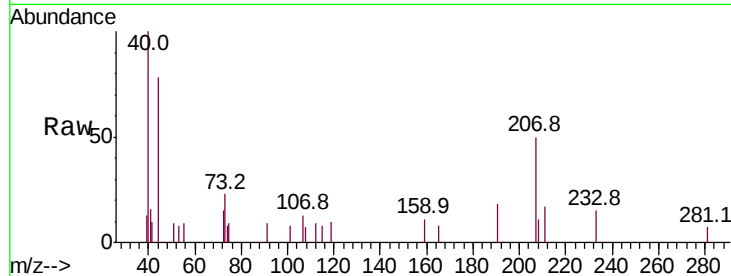
Tot Ion:119 Resp: 88

Ion Ratio Lower Upper

119 100

91 318.2 30.4 91.3#

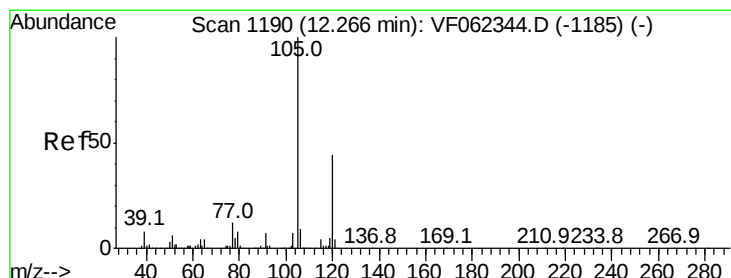
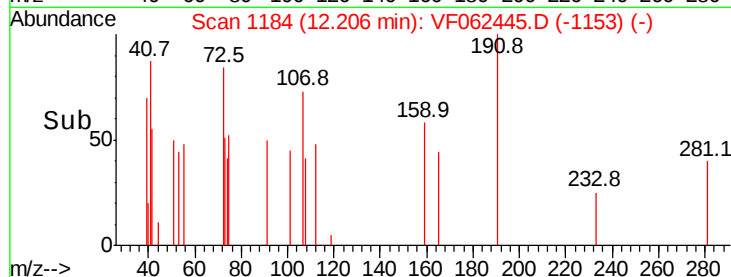
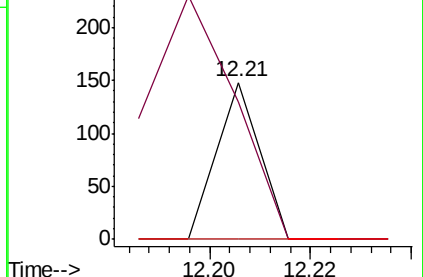
134 0.0 11.9 35.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 3.648 ug/l

RT: 12.26 min Scan# 1190

Delta R.T. -0.00 min

Lab File: VF062445.D

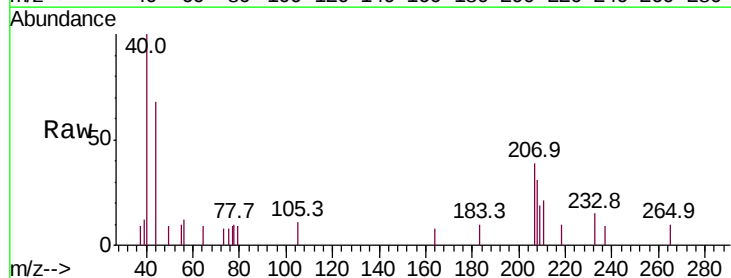
Acq: 11 May 2019 4:07

Tgt Ion:105 Resp: 151

Ion Ratio Lower Upper

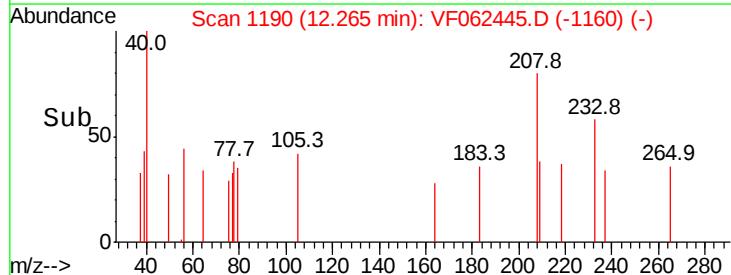
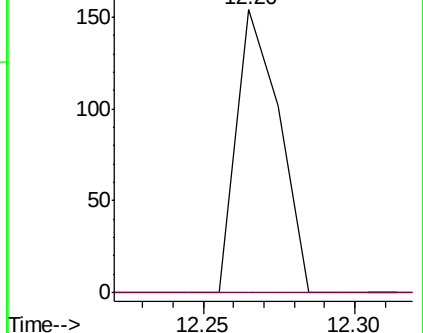
105 100

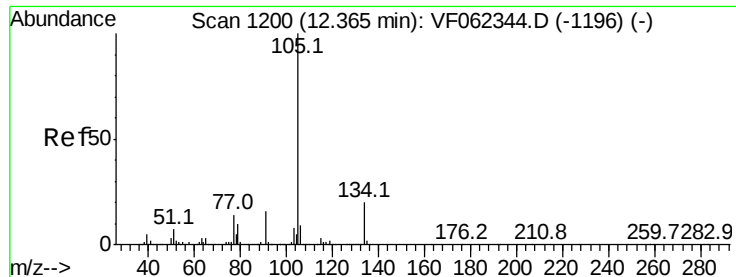
120 0.0 22.6 67.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 6.081 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

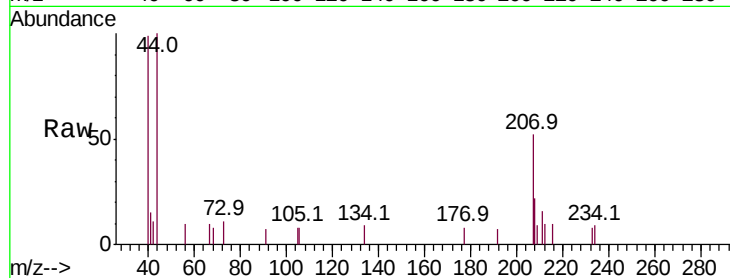
P026-SS011-1824-01

Tot Ion:105 Resp: 329

Ion Ratio Lower Upper

105 100

134 24.0 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250

200

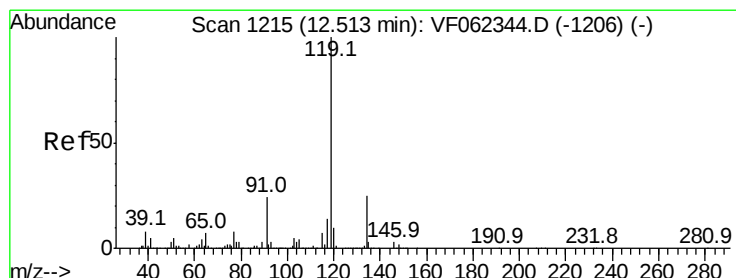
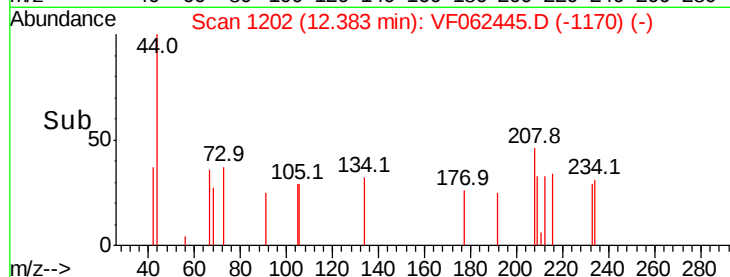
150

100

50

0

Time--> 12.35 12.40



#86

p-Isopropyltoluene

Concen: 5.510 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

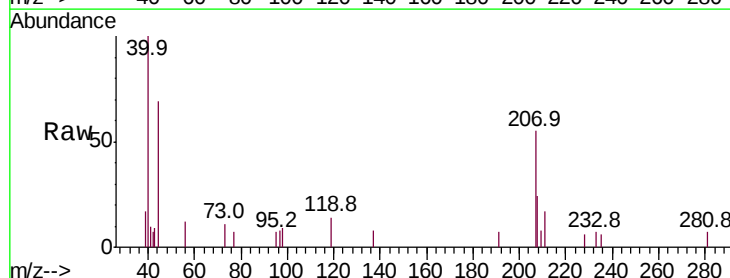
Tgt Ion:119 Resp: 277

Ion Ratio Lower Upper

119 100

134 22.0 12.9 38.7

91 0.0 12.3 36.8#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

300

250

200

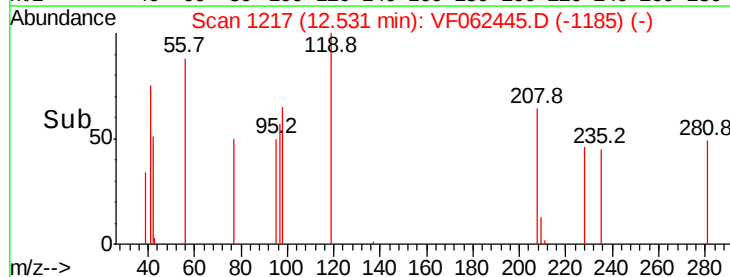
150

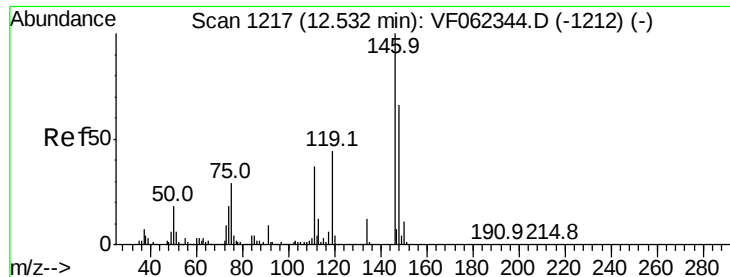
100

50

0

Time--> 12.45 12.50 12.55





#87

1,3-Dichlorobenzene

Concen: 2.767 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. 0.03 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

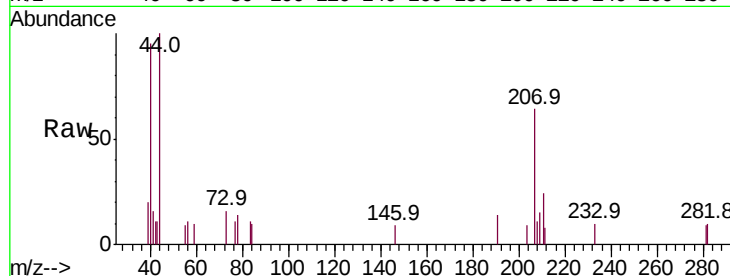
Tot Ion:146 Resp: 64

Ion Ratio Lower Upper

146 100

111 107.8 18.3 54.8#

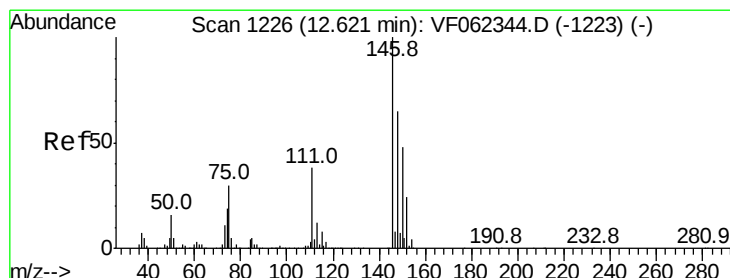
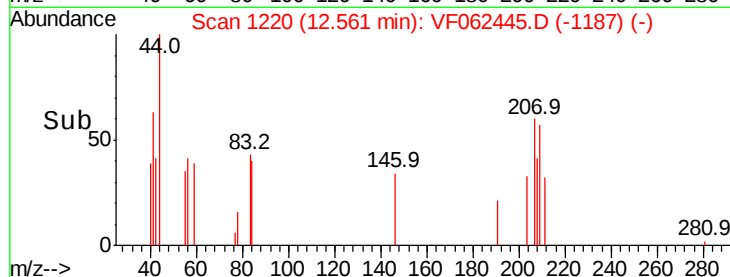
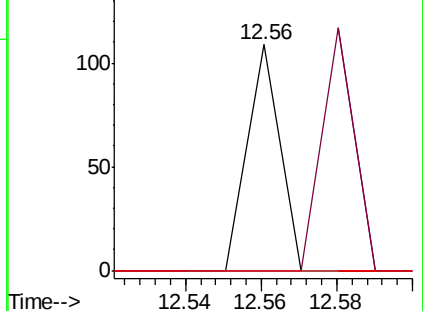
148 0.0 32.3 96.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 2.867 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. -0.06 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

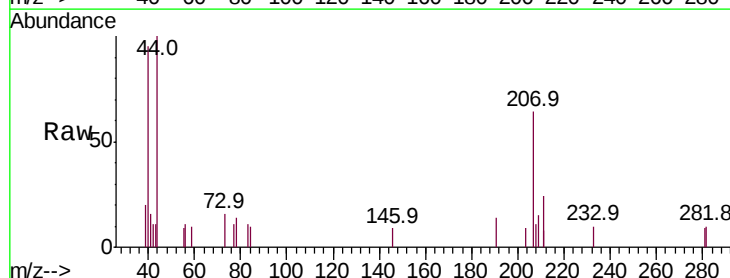
Tgt Ion:146 Resp: 64

Ion Ratio Lower Upper

146 100

111 107.8 18.8 56.3#

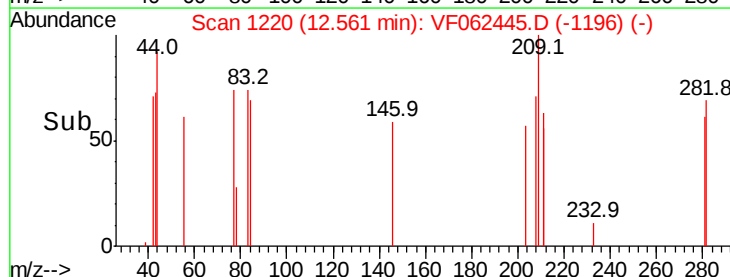
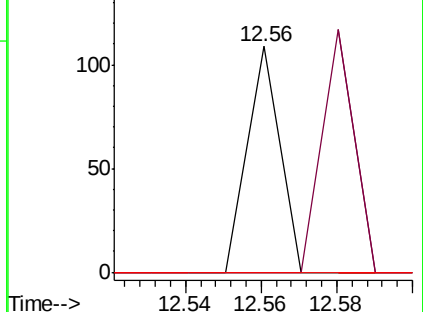
148 0.0 32.2 96.6#

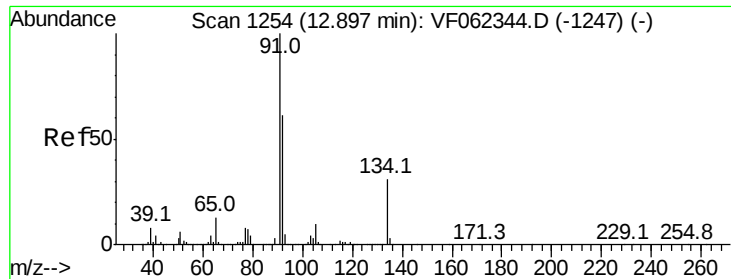


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 1.431 ug/l

RT: 12.85 min Scan# 1249

Delta R.T. -0.05 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

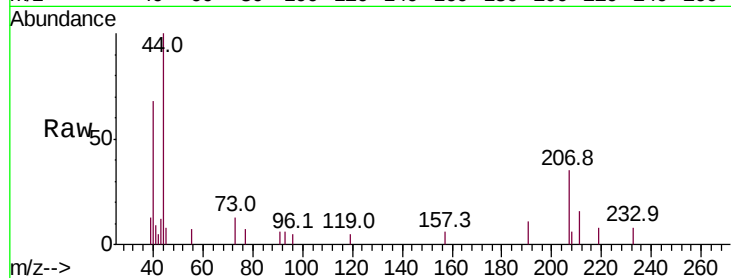
Tot Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

92 0.0 30.0 90.0#

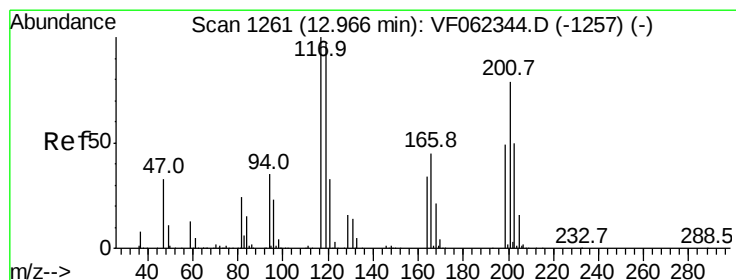
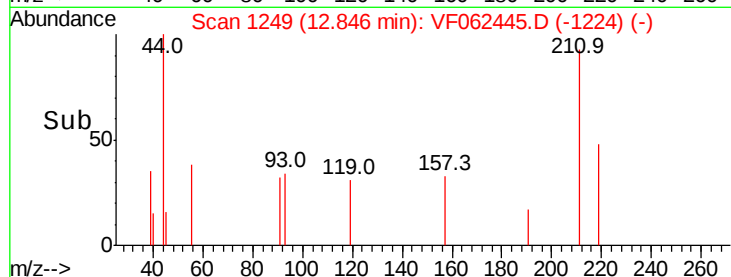
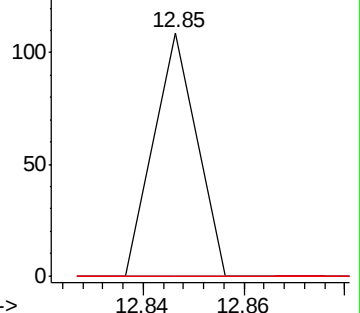
134 0.0 14.1 42.4#



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: 8.047 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VF062445.D

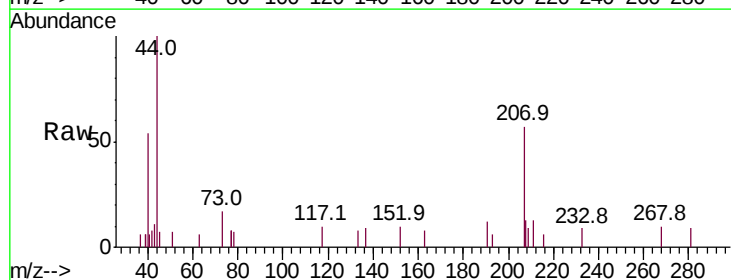
Acq: 11 May 2019 4:07

Tgt Ion: 117 Resp: 101

Ion Ratio Lower Upper

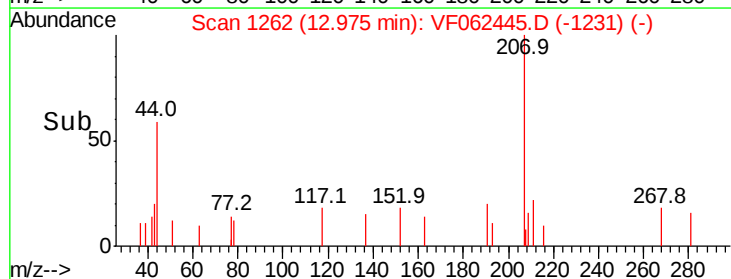
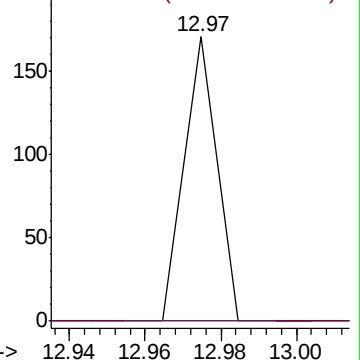
117 100

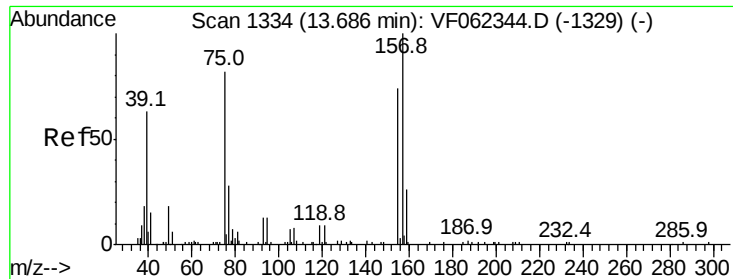
201 0.0 46.2 138.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 73.254 ug/l

RT: 13.76 min Scan# 1342

Delta R.T. 0.08 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

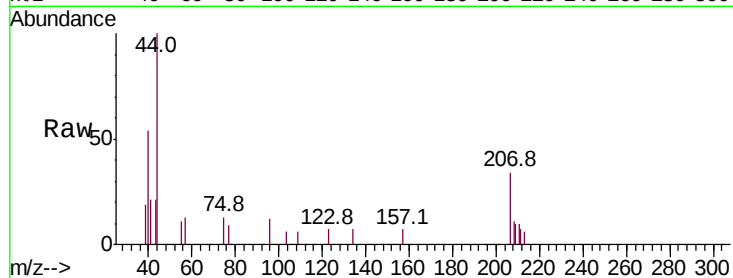
Tot Ion: 75 Resp: 124

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

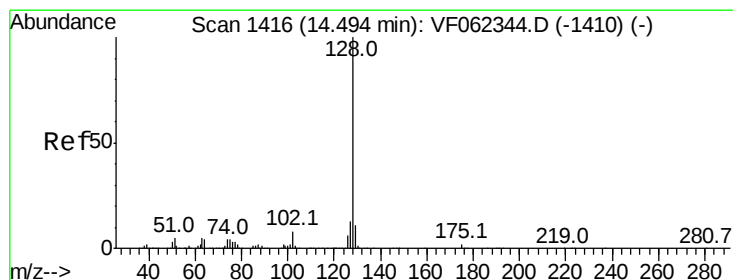
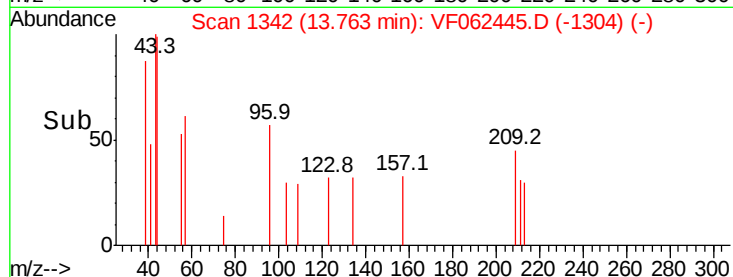
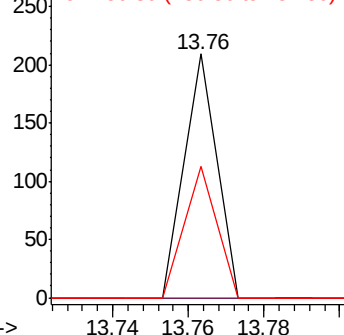
157 54.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 2.517 ug/l

RT: 14.43 min Scan# 1410

Delta R.T. -0.06 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

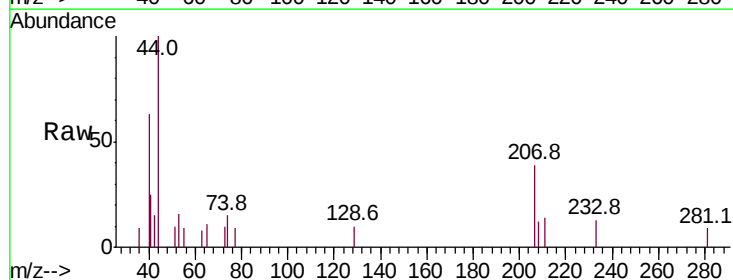
Tgt Ion: 128 Resp: 76

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

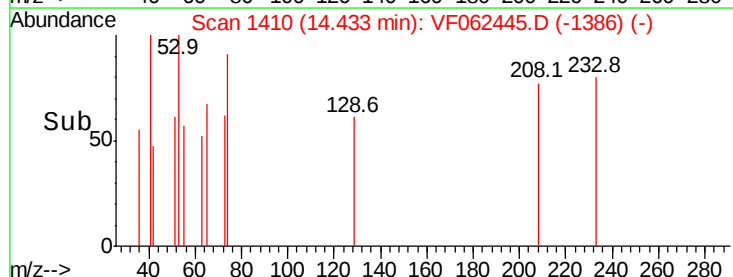
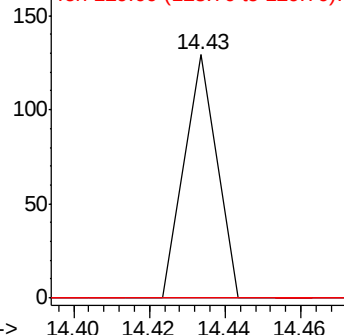
129 0.0 8.6 12.8#

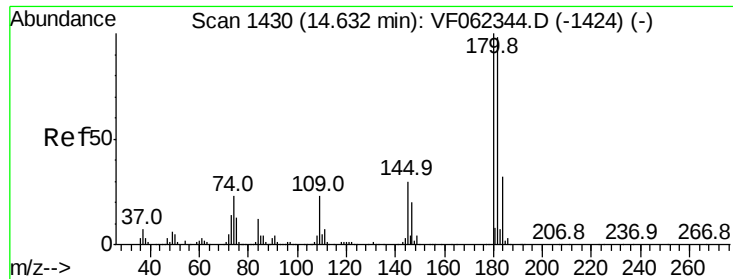


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 4.061 ug/l

RT: 14.56 min Scan# 1423

Delta R.T. -0.07 min

Lab File: VF062445.D

Acq: 11 May 2019 4:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-1824-01

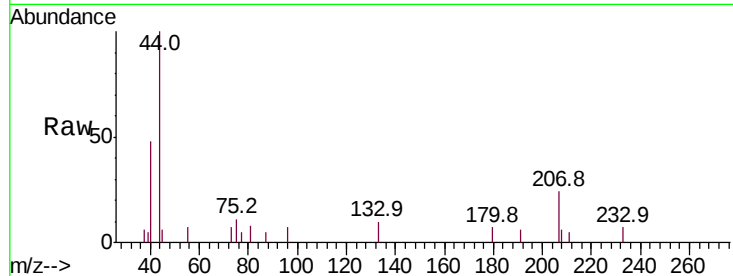
Tot Ion:180 Resp: 79

Ion Ratio Lower Upper

180 100

182 0.0 49.4 148.0#

145 0.0 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

