

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092520\
 Data File : VV018448.D
 Acq On : 25 Sep 2020 12:23
 Operator : SY/MD
 Sample : L4109-17
 Misc : 5.87g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y1

Quant Time: Sep 25 23:44:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 23:36:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	410355	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	400427	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	199998	50.00	ug/L	0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	96785	28.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	57.88%#
7) Chloroethane-d5	1.58	69	83307	30.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	60.88%#
11) 1,1-Dichloroethene-d2	2.10	63	122380	19.95	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	39.90%#
21) 2-Butanone-d5	3.94	46	98178	47.96	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	47.96%
24) Chloroform-d	4.38	84	211282	36.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.82%
26) 1,2-Dichloroethane-d4	5.06	65	141148	37.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.90%
32) Benzene-d6	5.07	84	444687	38.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.58%
36) 1,2-Dichloropropane-d6	6.10	67	146789	40.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	80.60%
41) Toluene-d8	7.34	98	423625	40.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.10%
43) trans-1,3-Dichloropropene-	7.65	79	73612	39.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.54%
47) 2-Hexanone-d5	8.16	63	140332	101.71	ug/L	0.05
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.71%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	212698	46.53	ug/L	0.04
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.06%
64) 1,2-Dichlorobenzene-d4	11.66	152	181497	44.19	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.38%

Target Compounds

					Ovalue
19) 1,1-Dichloroethane	3.21	63	7870	1.499 ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	14299	4.817 ug/L	96
29) Cyclohexane	4.69	56	178650	38.636 ug/L	100
30) 1,1,1-Trichloroethane	4.63	97	337541	72.635 ug/L	99
31) Carbon tetrachloride	4.63	117	43974	10.762 ug/L	98
35) Methylcyclohexane	6.15	83	15029	3.201 ug/L	92
39) cis-1,3-Dichloropropene	7.01	75	3698	0.791 ug/L #	65
40) 4-Methyl-2-pentanone	7.28	43	58057	15.774 ug/L #	73
45) 1,1,2-Trichloroethane	7.81	97	14345	5.101 ug/L #	20
46) Tetrachloroethene	8.00	164	22749	9.303 ug/L	97
48) 2-Hexanone	8.10	43	26579	9.160 ug/L #	23
51) Chlorobenzene	8.91	112	60347	7.670 ug/L	97
52) Ethylbenzene	9.04	91	6283094	475.003 ug/L	97
54) o-xylene	9.58	106	6129285	1288.623 ug/L	84
55) Styrene	9.58	104	311420	37.669 ug/L #	1
56) Isopropylbenzene	9.96	105	7119948	555.419 ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.26	83	35489	8.532 ug/L #	70

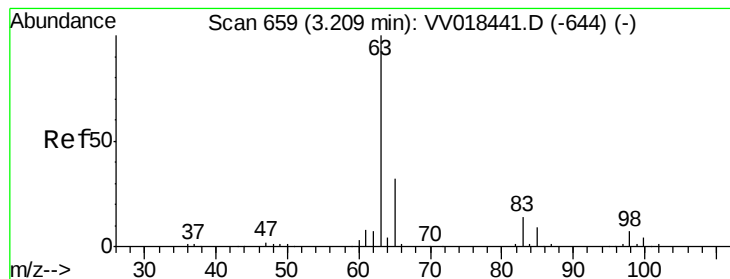
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092520\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
59) 1,2,3-Trichloropropane	10.39	75	220216	61.715	ug/L	#	1
62) 1,3-Dichlorobenzene	11.23	146	14901	2.506	ug/L	#	24
63) 1,4-Dichlorobenzene	11.31	146	36078	5.902	ug/L	#	71
65) 1,2-Dichlorobenzene	11.68	146	327322	54.452	ug/L		97
66) 1,2-Dibromo-3-chloropropan	12.45	75	87479	103.127	ug/L	#	1
68) 1,2,4-trichlorobenzene	13.29	180	40317	9.657	ug/L	#	59
69) Naphthalene	13.43	128	37404	3.541	ug/L	#	1
70) 1,2,3-Trichlorobenzene	13.77	180	12776	3.107	ug/L	#	38

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



#19

1,1-Dichloroethane

Concen: 1.499 ug/L

RT: 3.21 min Scan# 658

Delta R.T. -0.00 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampleId :

BG3Y1

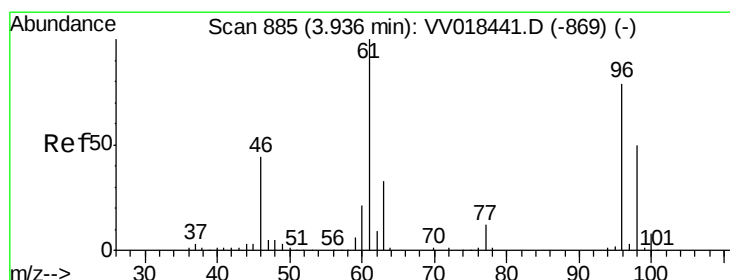
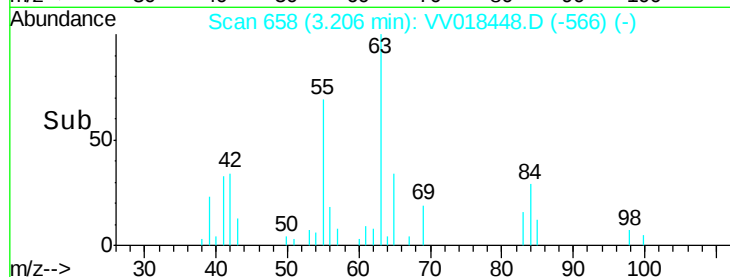
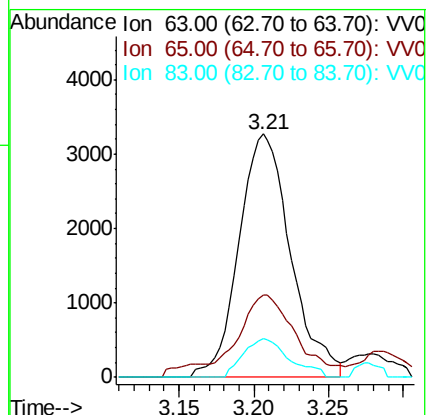
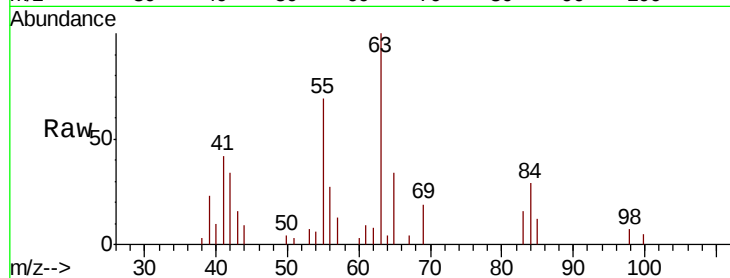
Tot Ion: 63 Resp: 7870

Ion Ratio Lower Upper

63 100

65 33.7 22.5 41.7

83 15.9 9.3 17.3



#20

cis-1,2-Dichloroethene

Concen: 4.817 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

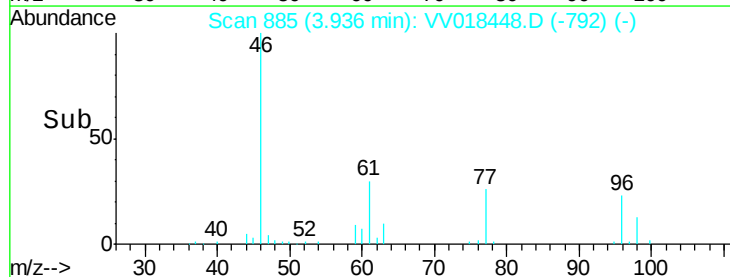
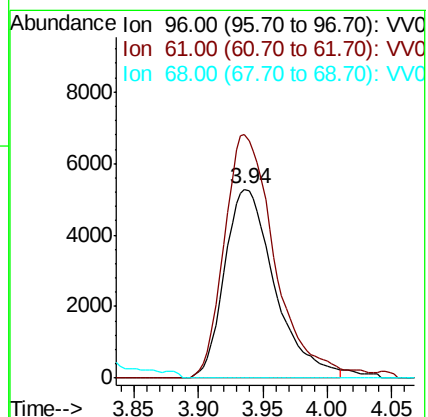
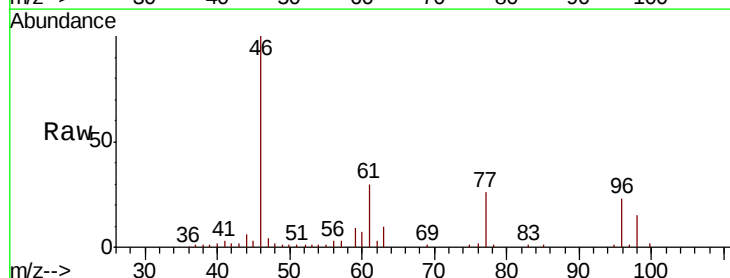
Tgt Ion: 96 Resp: 14299

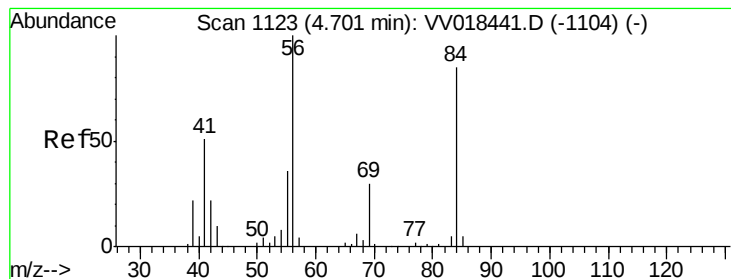
Ion Ratio Lower Upper

96 100

61 128.9 93.6 173.8

68 0.0 0.0 0.0





#29

Cvclohexane

Concen: 38.636 ug/L

RT: 4.69 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampled :

BG3Y1

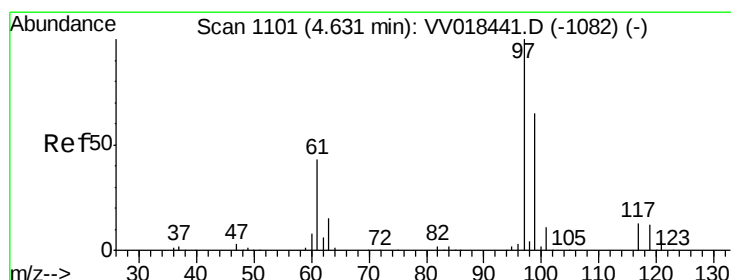
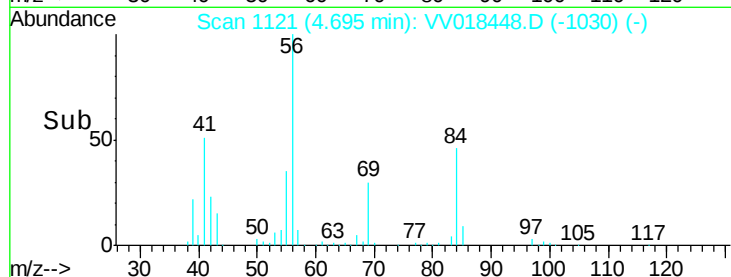
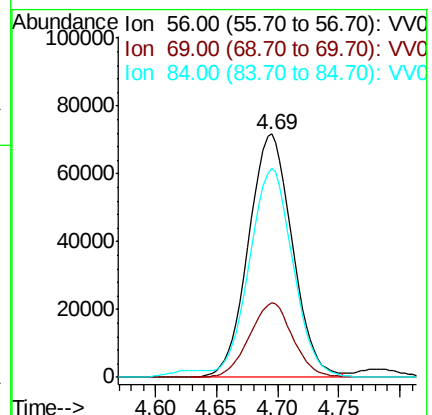
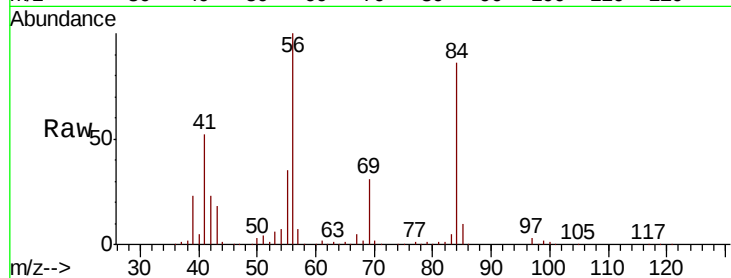
Tot Ion: 56 Resp: 178650

Ion Ratio Lower Upper

56 100

69 30.4 24.2 36.2

84 85.9 68.3 102.5



#30

1,1,1-Trichloroethane

Concen: 72.635 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

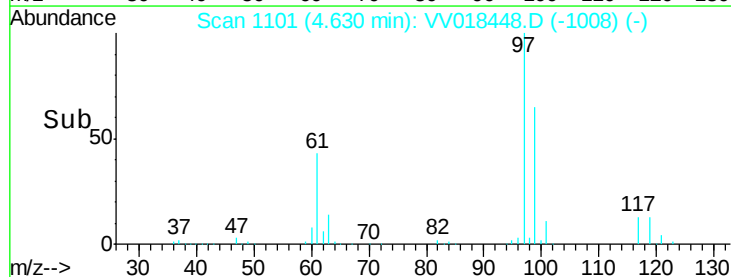
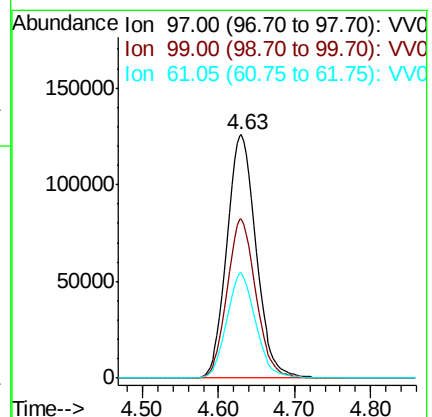
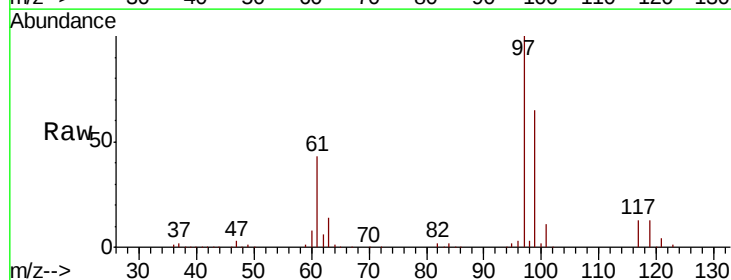
Tgt Ion: 97 Resp: 337541

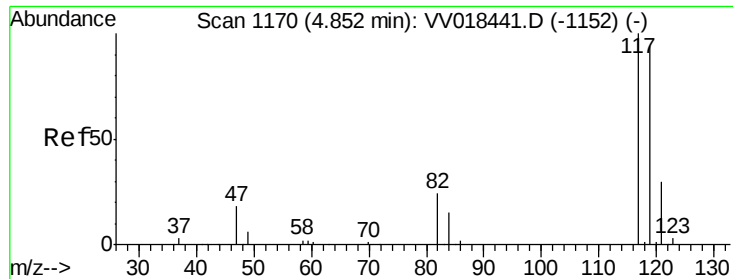
Ion Ratio Lower Upper

97 100

99 64.5 51.6 77.4

61 42.6 34.9 52.3

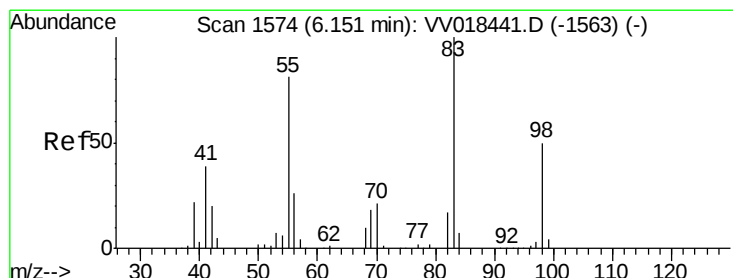
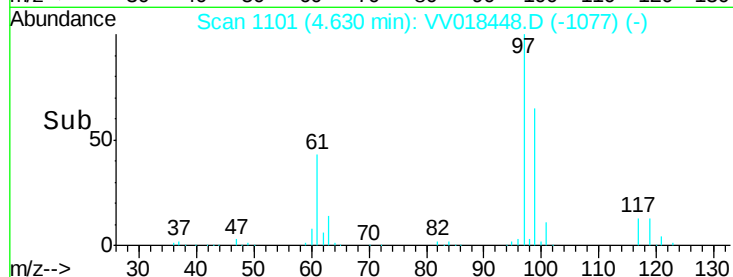
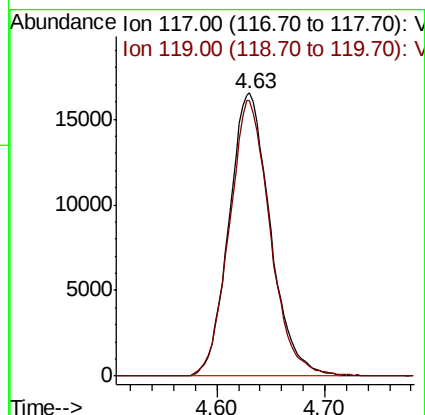
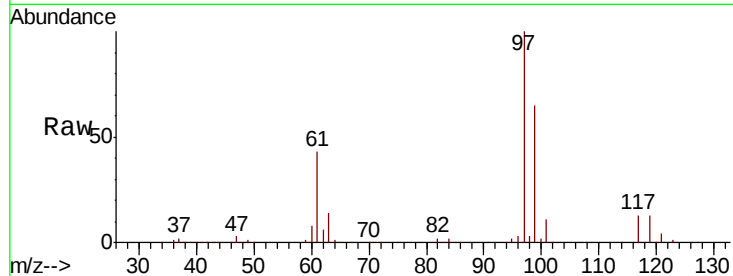




#31
Carbon tetrachloride
Concen: 10.762 ug/L
RT: 4.63 min Scan# 1101
Delta R.T. -0.22 min
Lab File: VV018448.D
Acq: 25 Sep 2020 12:23

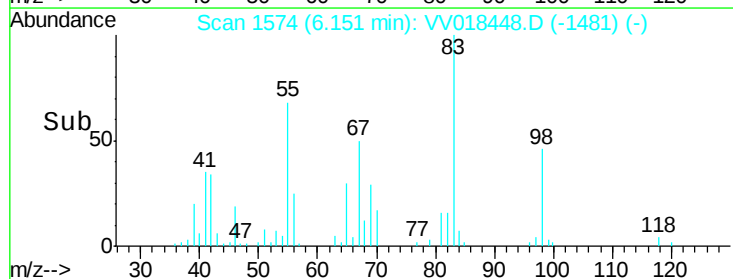
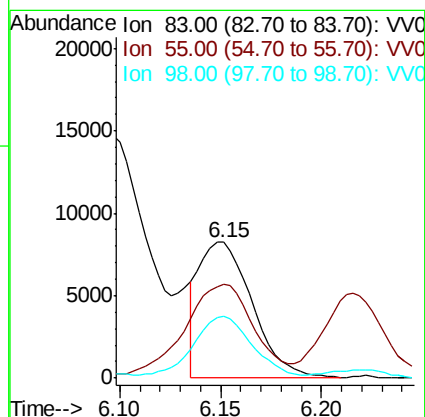
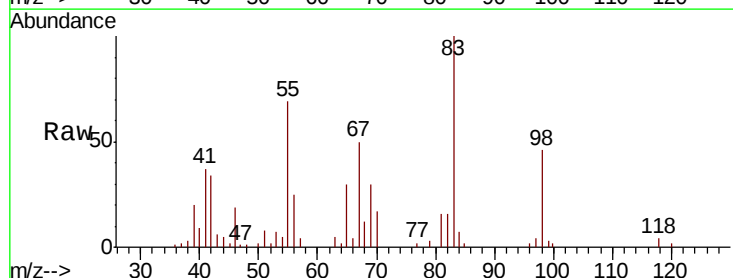
Instrument :
MSVOA_V
ClientSampleId :
BG3Y1

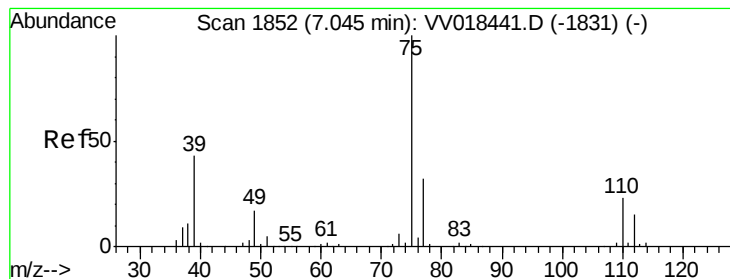
Tot Ion:117 Resp: 43974
Ion Ratio Lower Upper
117 100
119 96.2 75.7 113.5



#35
Methylcyclohexane
Concen: 3.201 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VV018448.D
Acq: 25 Sep 2020 12:23

Tgt Ion: 83 Resp: 15029
Ion Ratio Lower Upper
83 100
55 88.7 63.4 95.2
98 51.4 38.8 58.2



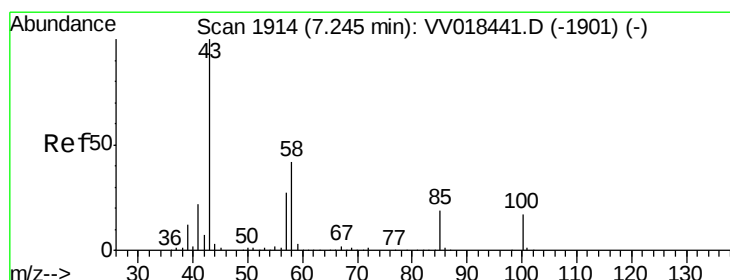
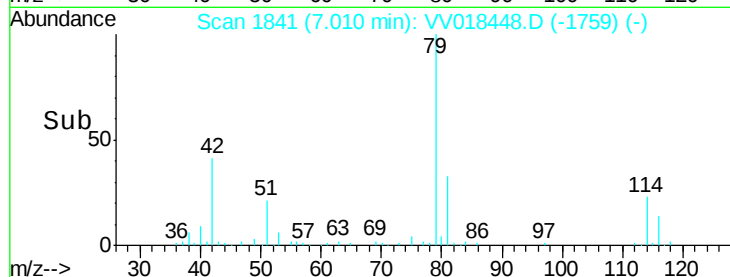
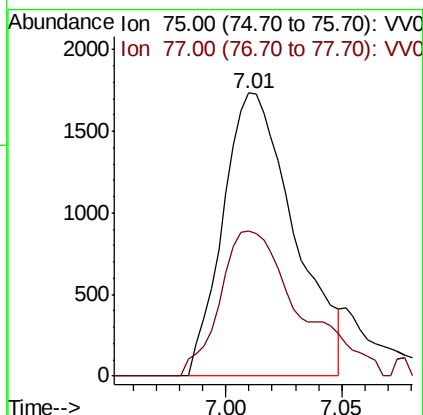
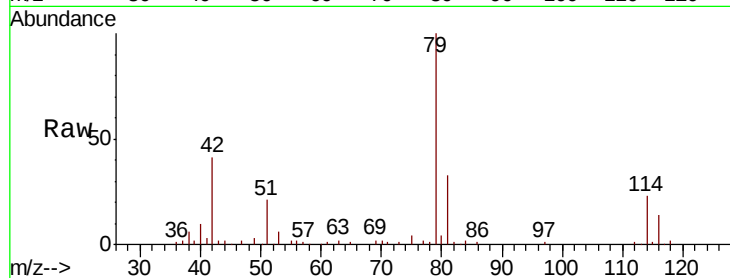


#39

cis-1,3-Dichloropropene
 Concen: 0.791 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y1

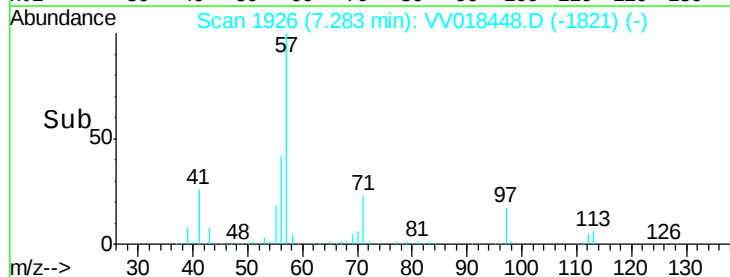
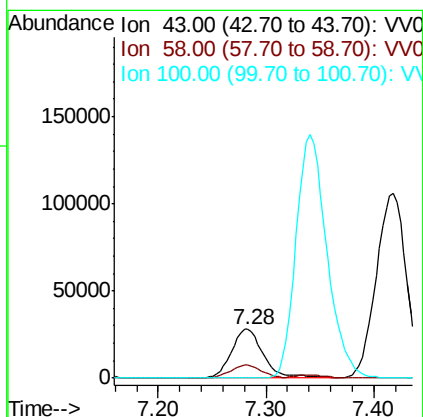
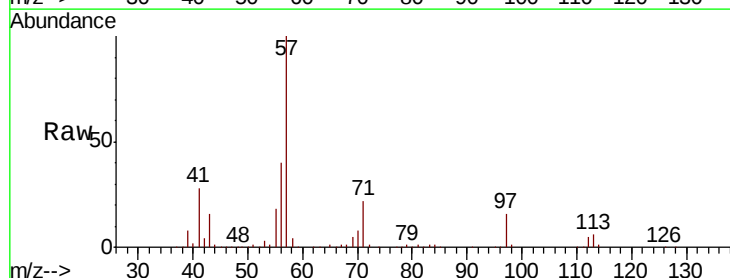
Tot Ion: 75 Resp: 3698
 Ion Ratio Lower Upper
 75 100
 77 51.1 22.3 41.3#

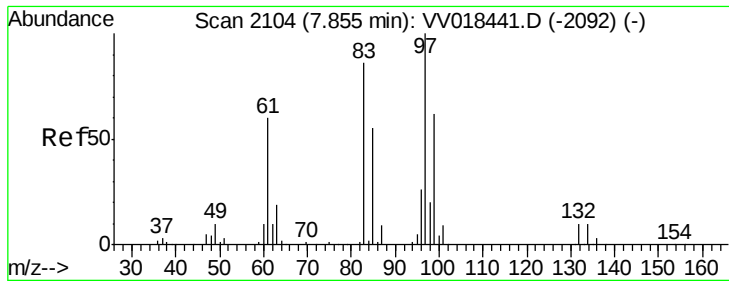


#40

4-Methyl-2-pentanone
 Concen: 15.774 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.04 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

Tgt Ion: 43 Resp: 58057
 Ion Ratio Lower Upper
 43 100
 58 26.0 32.4 48.6#
 100 0.0 12.7 19.1#

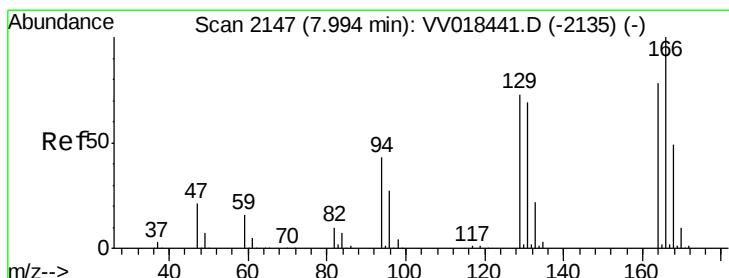
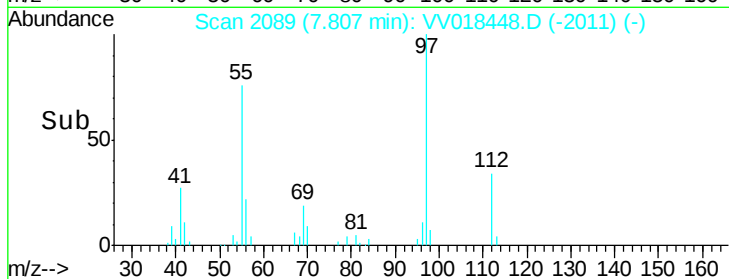
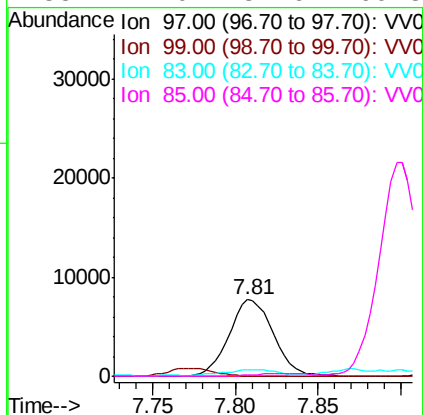
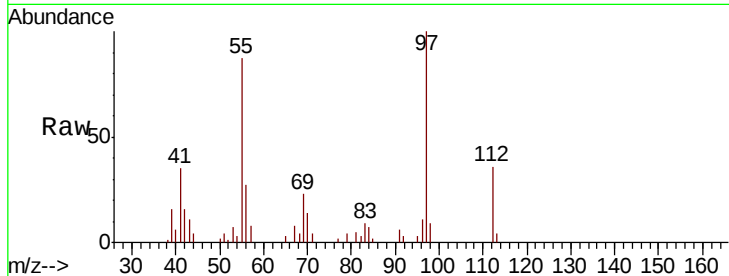




#45
 1,1,2-Trichloroethane
 Concen: 5.101 ug/L
 RT: 7.81 min Scan# 2089
 Delta R.T. -0.05 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

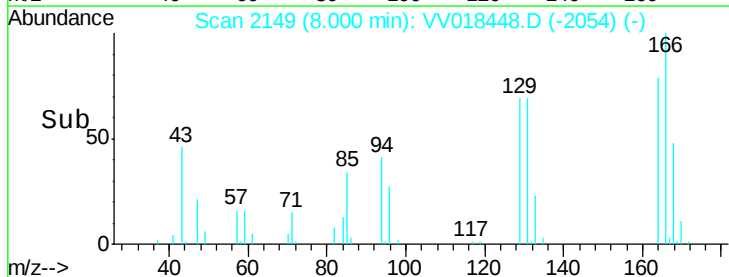
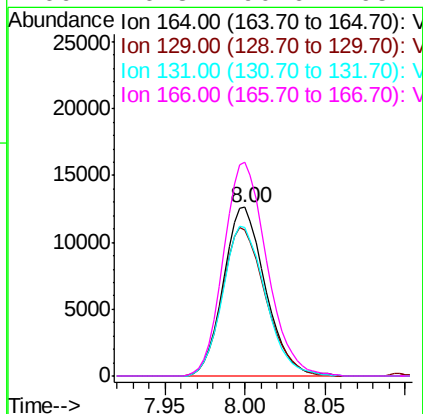
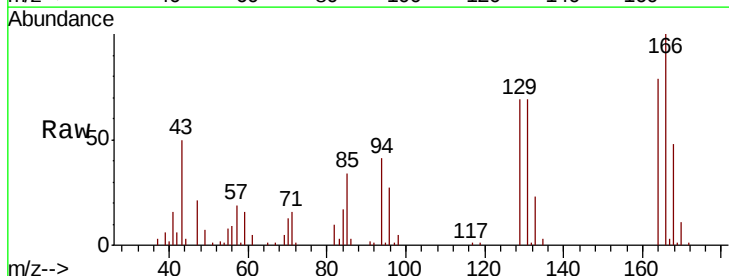
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 ClientSampleId :
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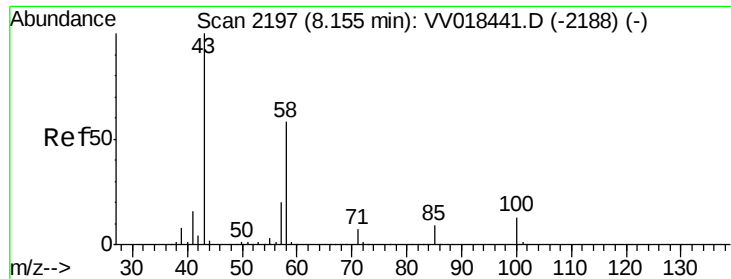
Tot Ion:	97	Resp:	14345
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.7	81.1#
83	8.8	59.9	111.3#
85	2.0	37.6	69.8#



#46
 Tetrachloroethene
 Concen: 9.303 ug/L
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.01 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

Tgt Ion:	164	Resp:	22749
Ion	Ratio	Lower	Upper
164	100		
129	86.9	64.5	119.7
131	88.0	61.8	114.8
166	126.8	90.6	168.2

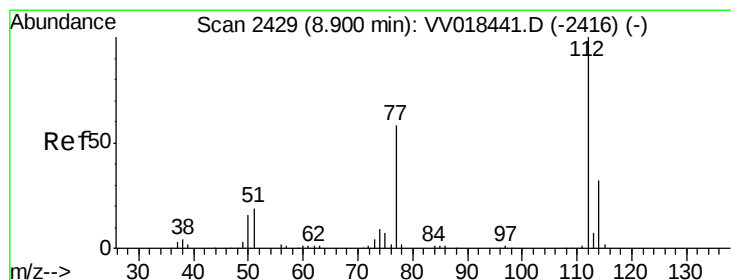
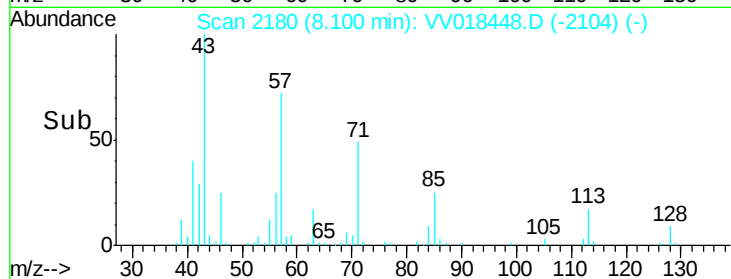
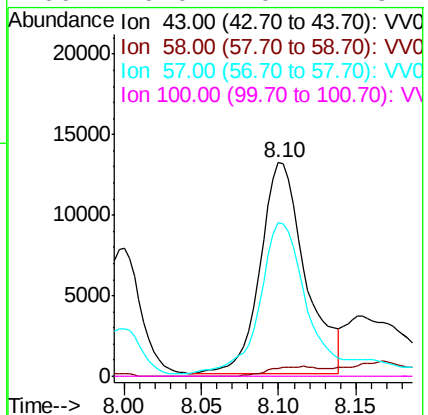
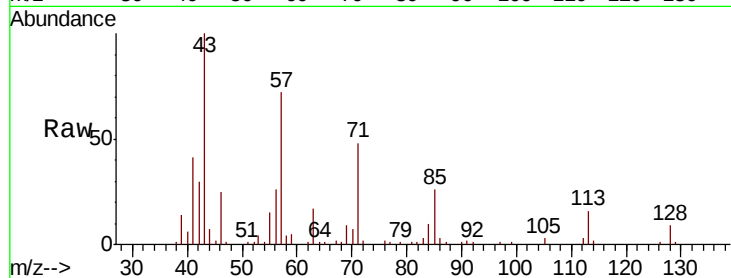




#48
2-Hexanone
Concen: 9.160 ug/L
RT: 8.10 min Scan# 2180
Delta R.T. -0.05 min
Lab File: VV018448.D
Acq: 25 Sep 2020 12:23

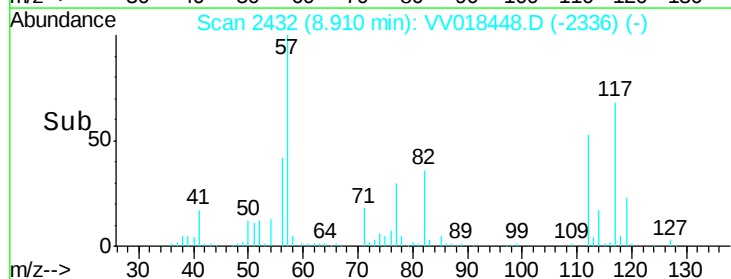
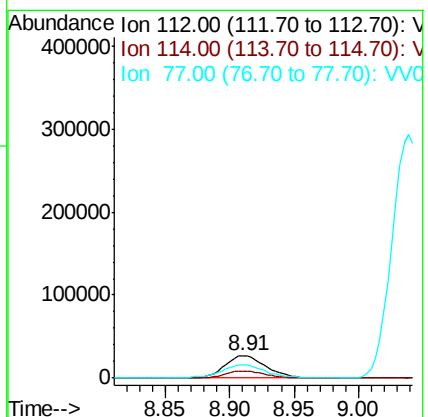
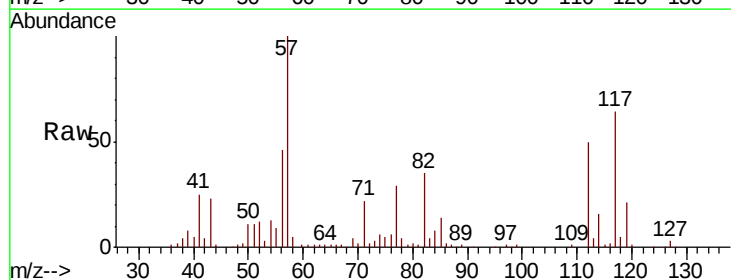
Instrument :
MSVOA_V
ClientSampleId :
BG3Y1

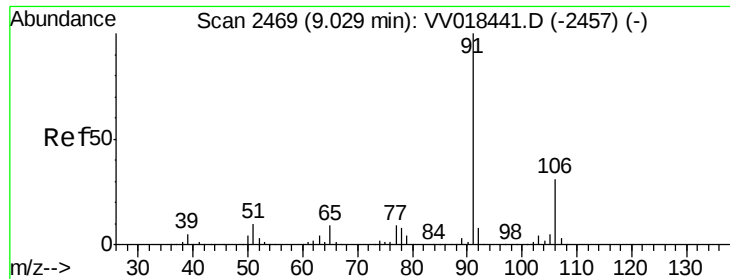
Tot Ion: 43 Resp: 26579
Ion Ratio Lower Upper
43 100
58 2.4 44.8 67.2#
57 72.9 15.8 23.6#
100 0.0 10.2 15.4#



#51
Chlorobenzene
Concen: 7.670 ug/L
RT: 8.91 min Scan# 2432
Delta R.T. 0.01 min
Lab File: VV018448.D
Acq: 25 Sep 2020 12:23

Tgt Ion: 112 Resp: 60347
Ion Ratio Lower Upper
112 100
114 31.3 22.6 42.0
77 57.3 48.0 72.0





#52

Ethylbenzene

Concen: 475.003 ug/L

RT: 9.04 min Scan# 2472

Delta R.T. 0.01 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampleId :

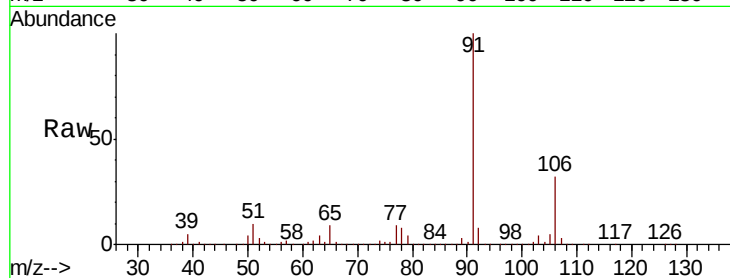
BG3Y1

Tot Ion: 91 Resp: 6283094

Ion Ratio Lower Upper

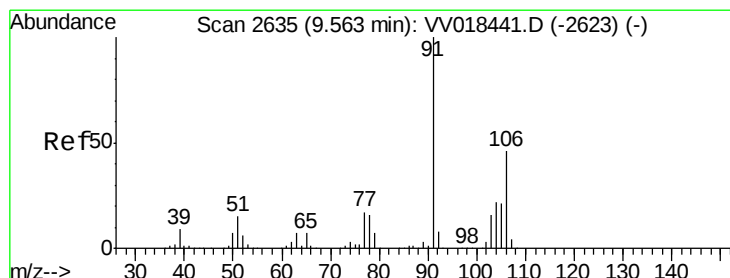
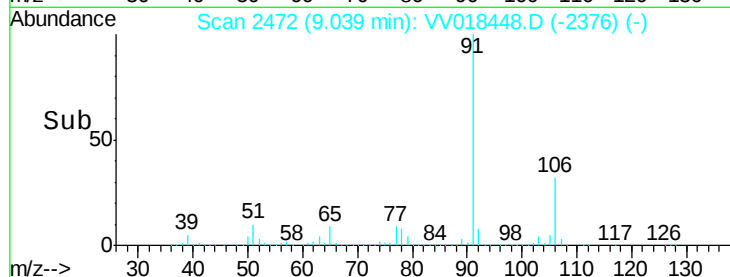
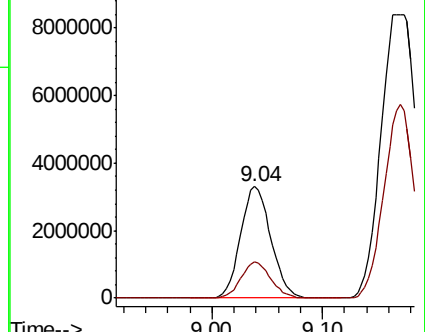
91 100

106 32.1 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV018448.D (-2472) (-)

Ion 106.00 (105.70 to 106.70): VV018448.D (-2472) (-)



#54

o-xylene

Concen: 1288.623 ug/L

RT: 9.58 min Scan# 2639

Delta R.T. 0.01 min

Lab File: VV018448.D

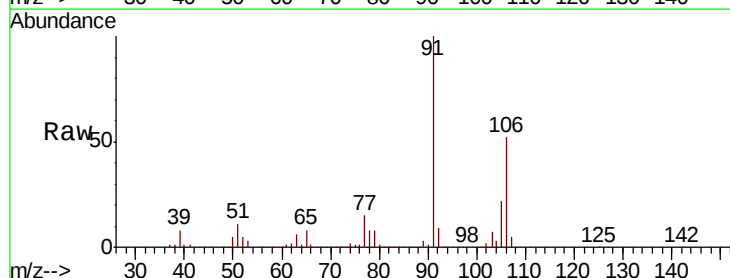
Acq: 25 Sep 2020 12:23

Tgt Ion: 106 Resp: 6129285

Ion Ratio Lower Upper

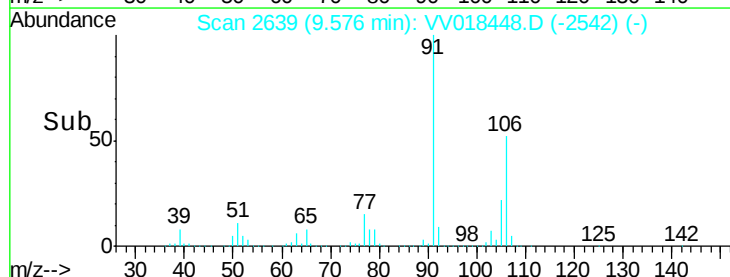
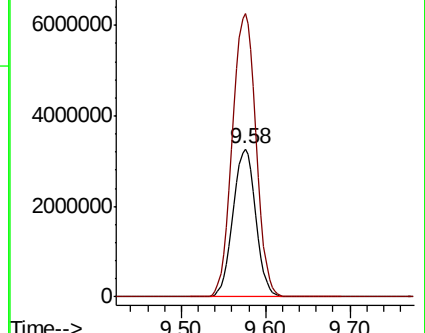
106 100

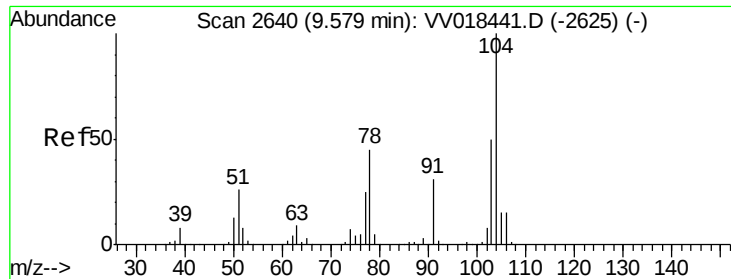
91 191.5 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): VV018448.D (-2639) (-)

Ion 91.00 (90.70 to 91.70): VV018448.D (-2639) (-)





#55

Stvrene

Concen: 37.669 ug/L

RT: 9.58 min Scan# 2639

Delta R.T. -0.00 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampled :

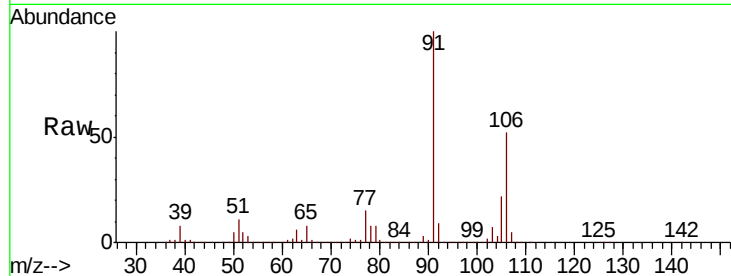
BG3Y1

Tot Ion:104 Resp: 311420

Ion Ratio Lower Upper

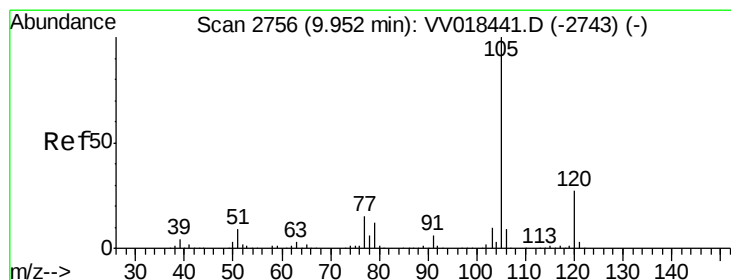
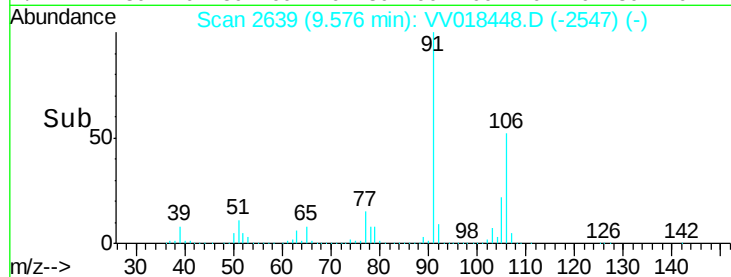
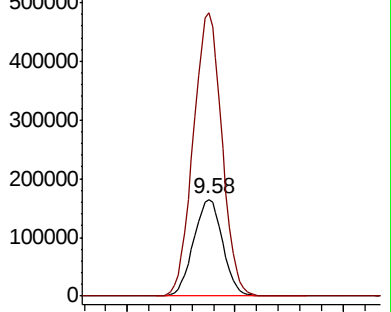
104 100

78 292.2 31.4 58.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 555.419 ug/L

RT: 9.96 min Scan# 2759

Delta R.T. 0.01 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

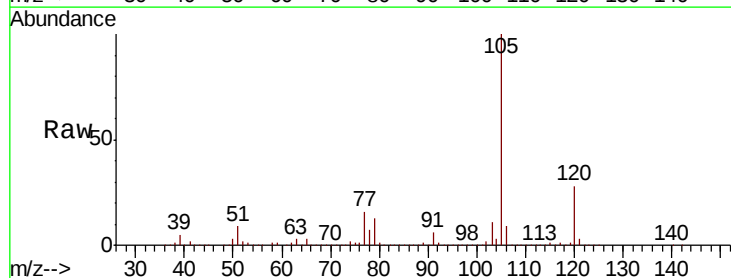
Tgt Ion:105 Resp: 7119948

Ion Ratio Lower Upper

105 100

120 27.4 20.9 31.3

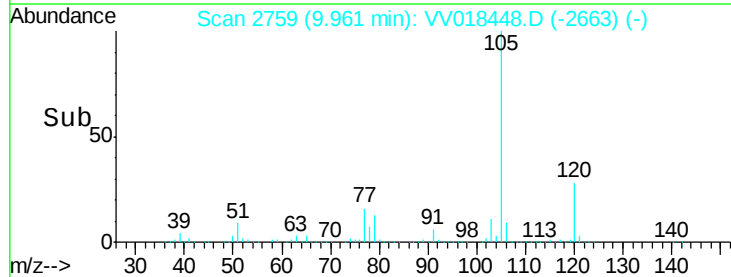
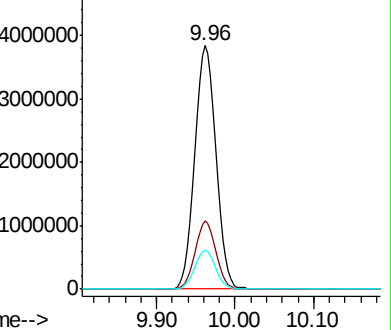
77 15.7 12.5 18.7

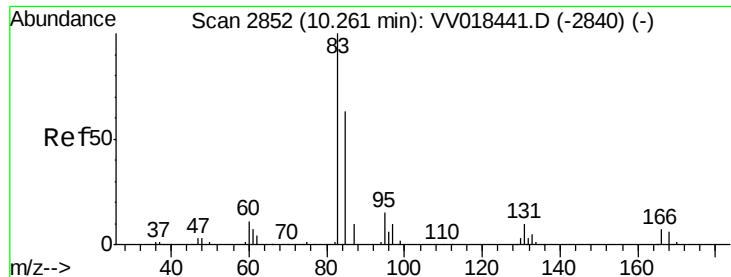


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 8.532 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampled :

BG3Y1

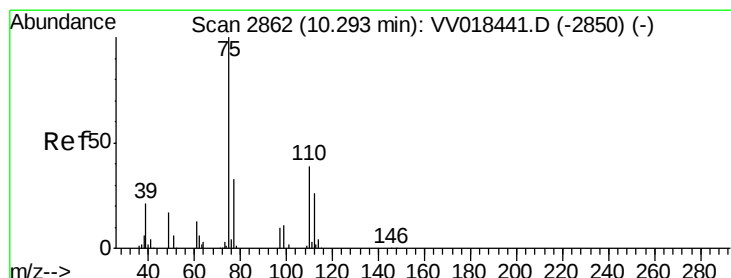
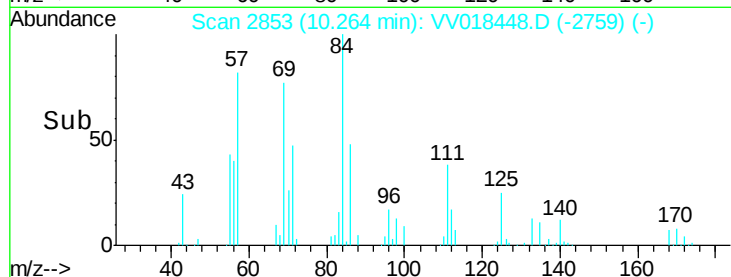
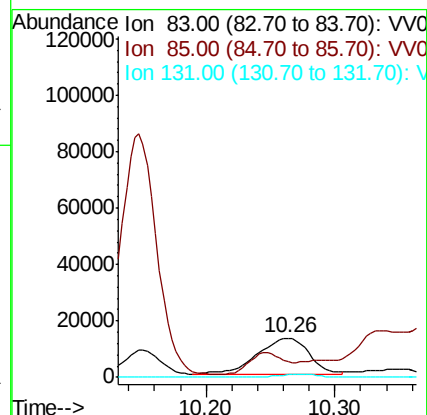
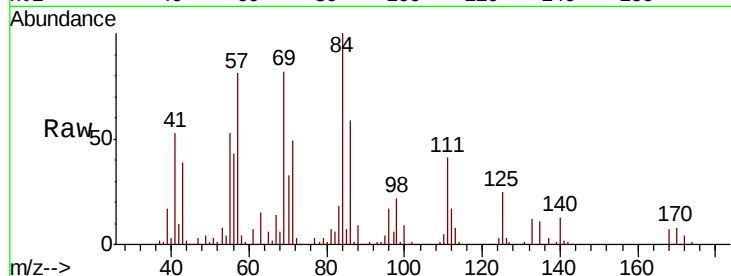
Tot Ion: 83 Resp: 35489

Ion Ratio Lower Upper

83 100

85 39.7 45.8 85.2#

131 6.2 8.0 12.0#



#59

1,2,3-Trichloropropane

Concen: 61.715 ug/L

RT: 10.39 min Scan# 2893

Delta R.T. 0.10 min

Lab File: VV018448.D

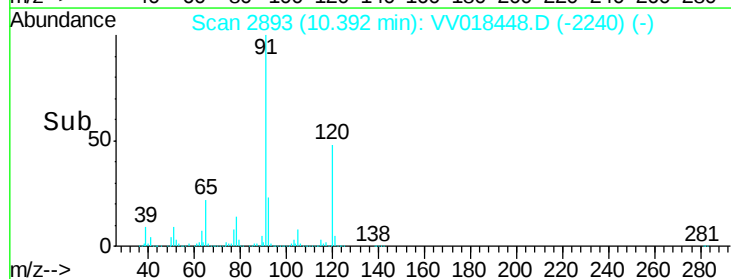
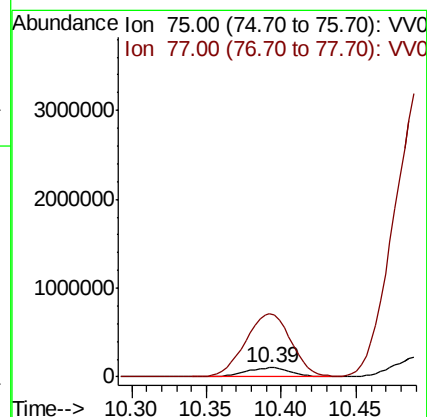
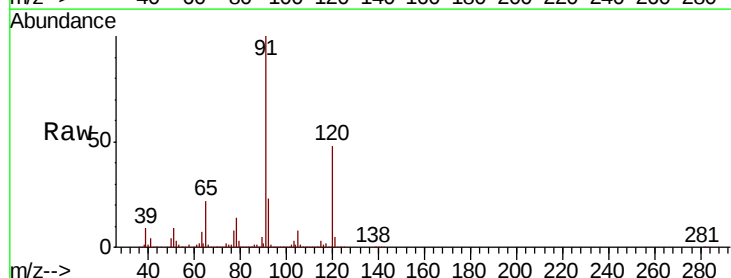
Acq: 25 Sep 2020 12:23

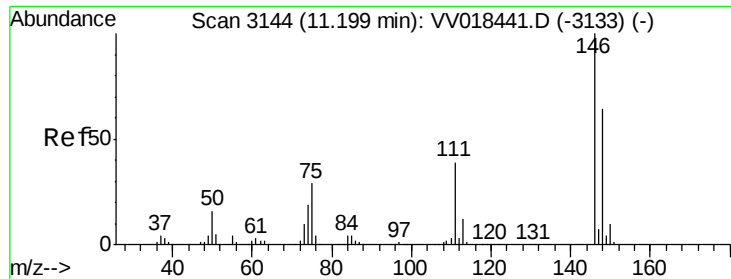
Tgt Ion: 75 Resp: 220216

Ion Ratio Lower Upper

75 100

77 685.5 25.8 38.6#





#62

1,3-Dichlorobenzene

Concen: 2.506 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.03 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampled :

BG3Y1

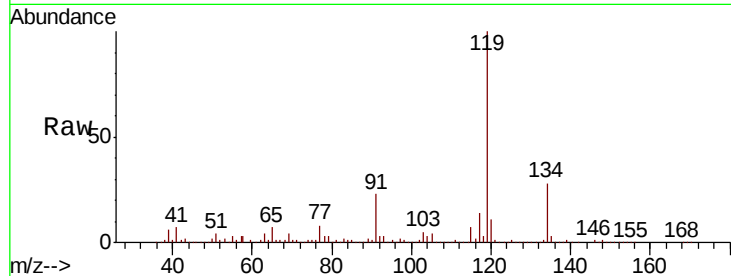
Tot Ion:146 Resp: 14901

Ion Ratio Lower Upper

146 100

111 160.1 27.6 51.2#

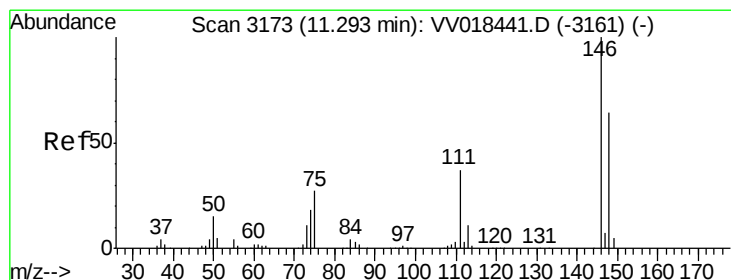
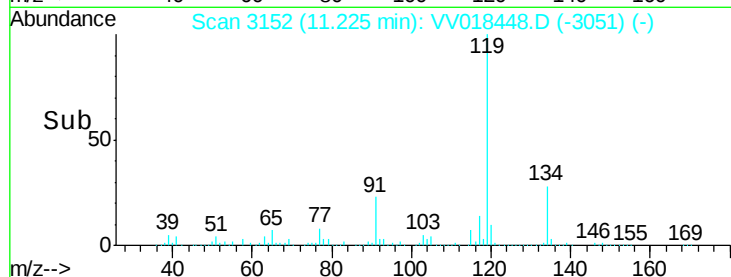
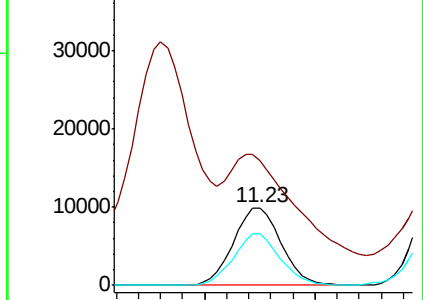
148 67.1 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.902 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.02 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

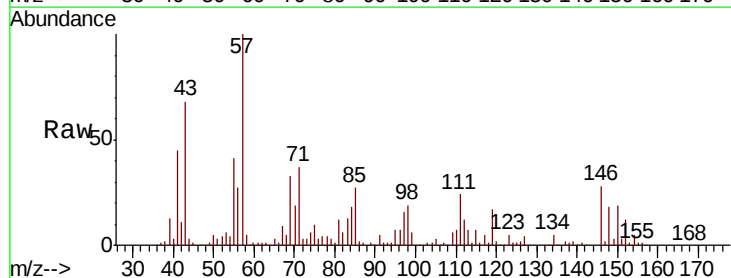
Tgt Ion:146 Resp: 36078

Ion Ratio Lower Upper

146 100

111 84.4 27.1 50.3#

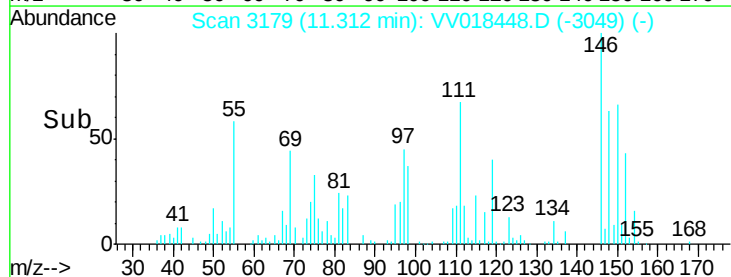
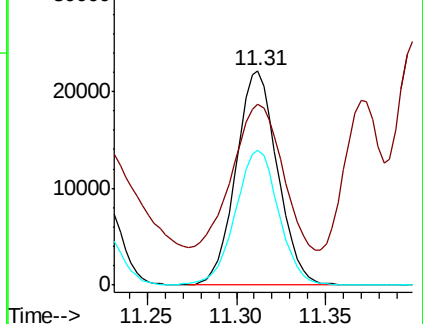
148 63.1 45.4 84.2

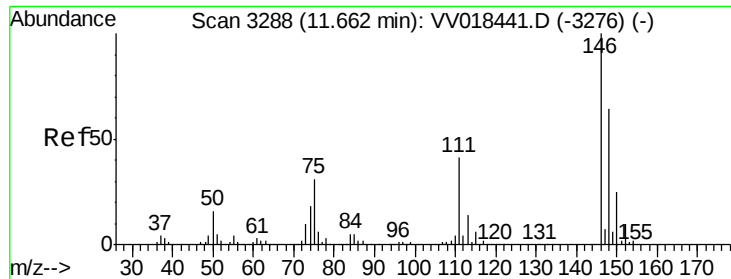


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

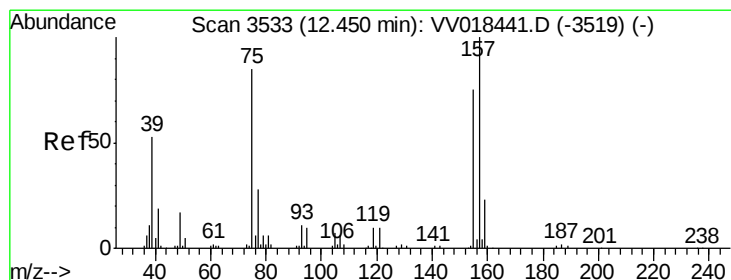
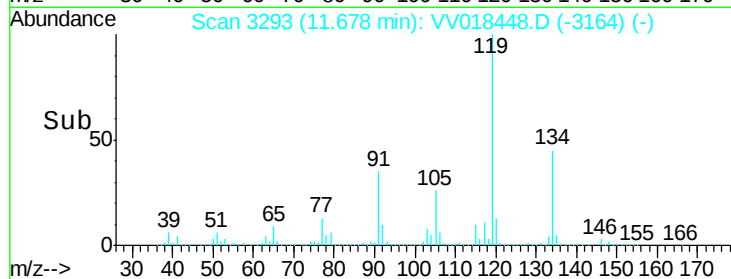
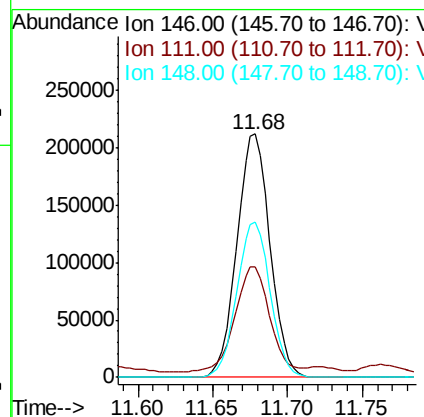
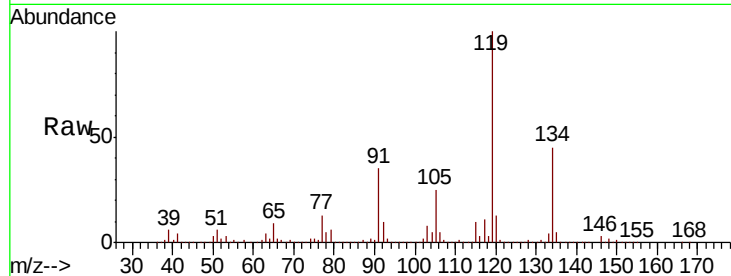




#65
 1,2-Dichlorobenzene
 Concen: 54.452 ug/L
 RT: 11.68 min Scan# 3293
 Delta R.T. 0.02 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

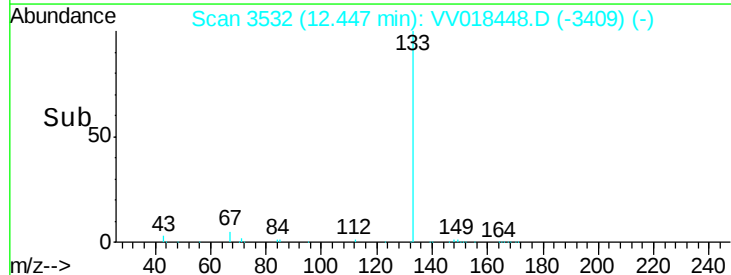
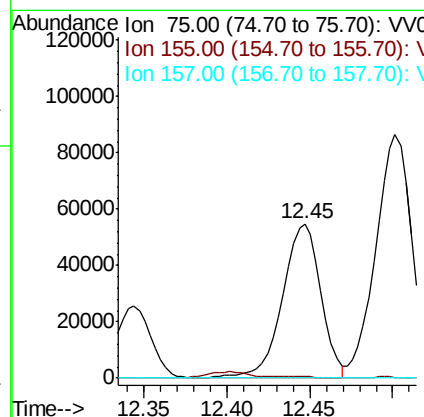
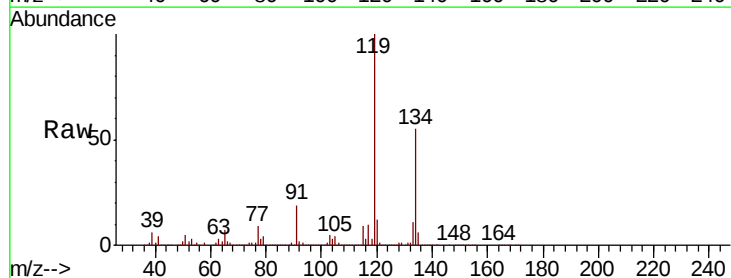
Instrument :
 MSVOA_V
 ClientSampled :
 BG3Y1

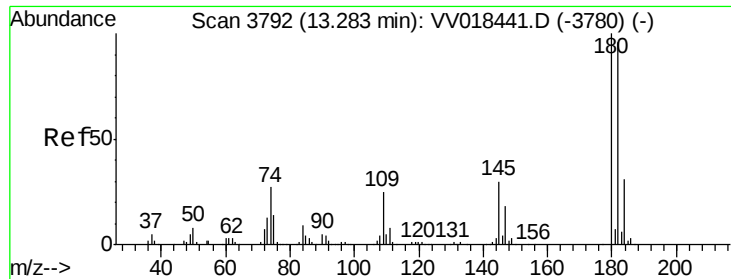
Tot Ion:146 Resp: 327322
 Ion Ratio Lower Upper
 146 100
 111 45.2 32.8 49.2
 148 63.6 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 103.127 ug/L
 RT: 12.45 min Scan# 3532
 Delta R.T. -0.00 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

Tgt Ion: 75 Resp: 87479
 Ion Ratio Lower Upper
 75 100
 155 0.9 69.7 104.5#
 157 0.0 88.2 132.4#





#68

1,2,4-trichlorobenzene

Concen: 9.657 ug/L

RT: 13.29 min Scan# 3794

Delta R.T. 0.01 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

Instrument :

MSVOA_V

ClientSampleId :

BG3Y1

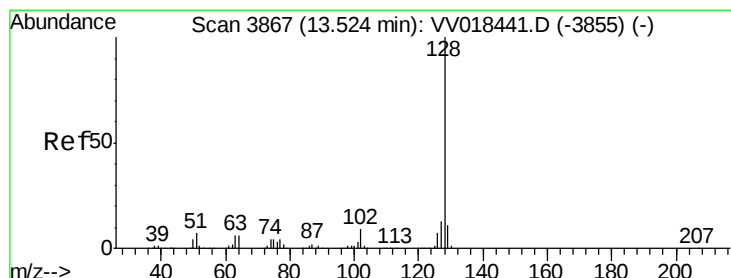
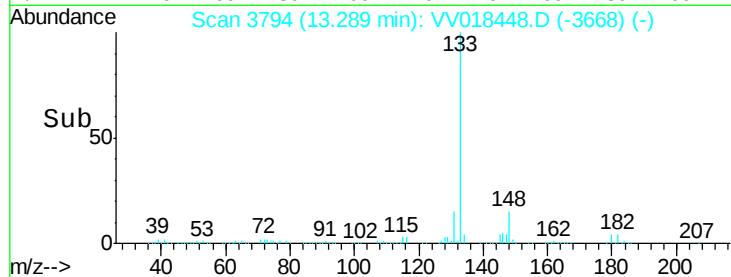
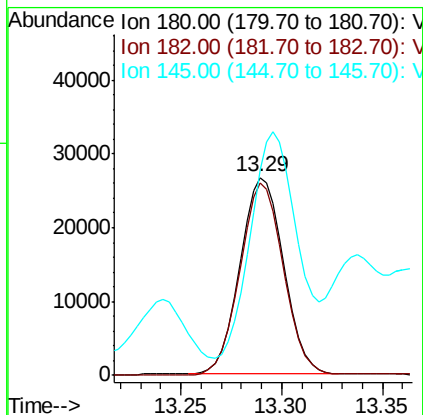
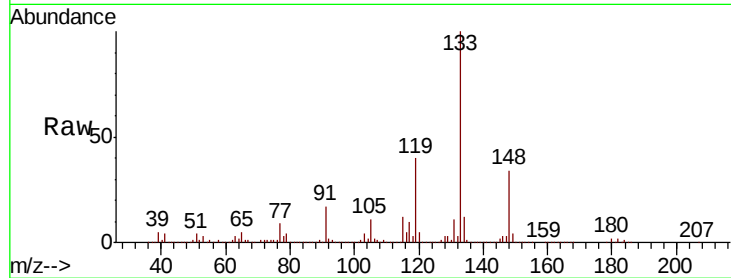
Tot Ion:180 Resp: 40317

Ion Ratio Lower Upper

180 100

182 98.2 77.4 116.2

145 122.1 23.2 34.8#



#69

Naphthalene

Concen: 3.541 ug/L

RT: 13.43 min Scan# 3837

Delta R.T. -0.10 min

Lab File: VV018448.D

Acq: 25 Sep 2020 12:23

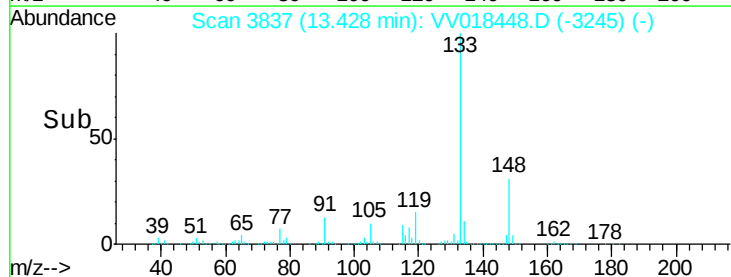
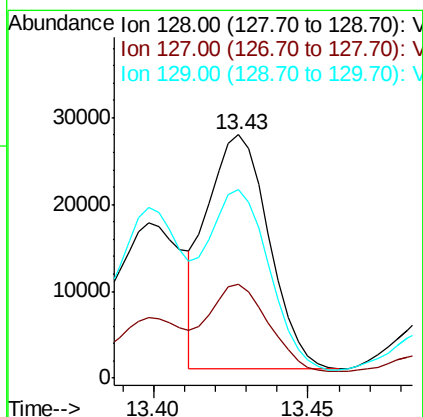
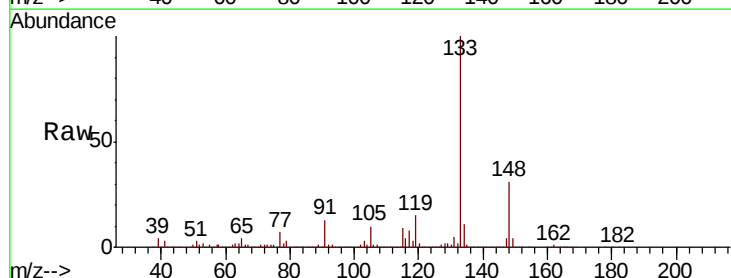
Tgt Ion:128 Resp: 37404

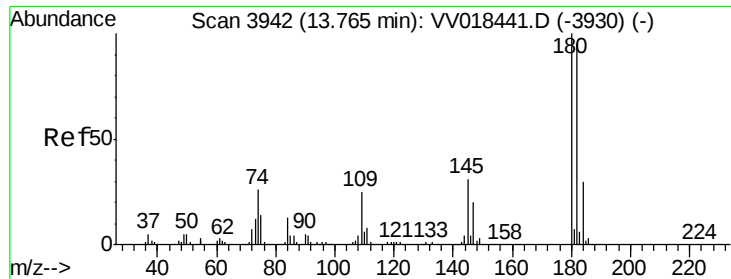
Ion Ratio Lower Upper

128 100

127 36.2 10.6 15.8#

129 72.0 8.6 13.0#





#70
 1,2,3-Trichlorobenzene
 Concen: 3.107 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV018448.D
 Acq: 25 Sep 2020 12:23

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y1

Tot Ion:180 Resp: 12776
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.5 114.7
 145 168.2 24.9 37.3#

