

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102220\
 Data File : VV019071.D
 Acq On : 22 Oct 2020 15:43
 Operator : SY/MD
 Sample : L4425-01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X2P71

Quant Time: Oct 23 11:16:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 13:54:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	327064	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	320059	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	155206	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	130673	43.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.96%
7) Chloroethane-d5	1.58	69	105779	44.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.46%
11) 1,1-Dichloroethene-d2	2.12	63	217120	39.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.04%
21) 2-Butanone-d5	3.92	46	188078	94.12	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.12%
24) Chloroform-d	4.37	84	239433	46.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.14%
26) 1,2-Dichloroethane-d4	5.05	65	162282	46.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.90%
32) Benzene-d6	5.07	84	459095	46.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.80%
36) 1,2-Dichloropropane-d6	6.09	67	147607	46.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.08%
41) Toluene-d8	7.34	98	417396	47.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.36%
43) trans-1,3-Dichloropropene-	7.64	79	76708	47.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.40%
47) 2-Hexanone-d5	8.11	63	135388	98.19	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.19%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	192500	45.61	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.22%
64) 1,2-Dichlorobenzene-d4	11.65	152	162583	49.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.88%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	68132	21.504	ug/L 98
8) Chloroethane	1.60	64	30925	15.800	ug/L 99
12) 1,1-Dichloroethene	2.13	96	36248	16.593	ug/L # 19
13) Acetone	2.20	43	66382	49.014	ug/L 98
16) Methylene chloride	2.52	84	77035	30.256	ug/L 96
19) 1,1-Dichloroethane	3.21	63	82017	17.597	ug/L 100
22) 2-Butanone	4.01	43	60037	32.337	ug/L 98
25) Chloroform	4.40	83	132838	28.932	ug/L 99
27) 1,2-Dichloroethane	5.15	62	132872	34.870	ug/L 98
31) Carbon tetrachloride	4.85	117	67337	19.383	ug/L 100
33) Benzene	5.13	78	191358	19.530	ug/L 100
34) Trichloroethene	5.94	95	119236	48.158	ug/L 99
37) 1,2-Dichloropropane	6.20	63	50059	18.558	ug/L 100
40) 4-Methyl-2-pentanone	7.25	43	139494	38.332	ug/L 99
45) 1,1,2-Trichloroethane	7.86	97	46276	19.424	ug/L 98
48) 2-Hexanone	8.16	43	120255	42.824	ug/L 99
54) o-xylene	9.56	106	191345	49.917	ug/L 97

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Quant Title : VOC Analysis
QLast Update : Thu Oct 22 13:54:49 2020
Response via : Initial Calibration

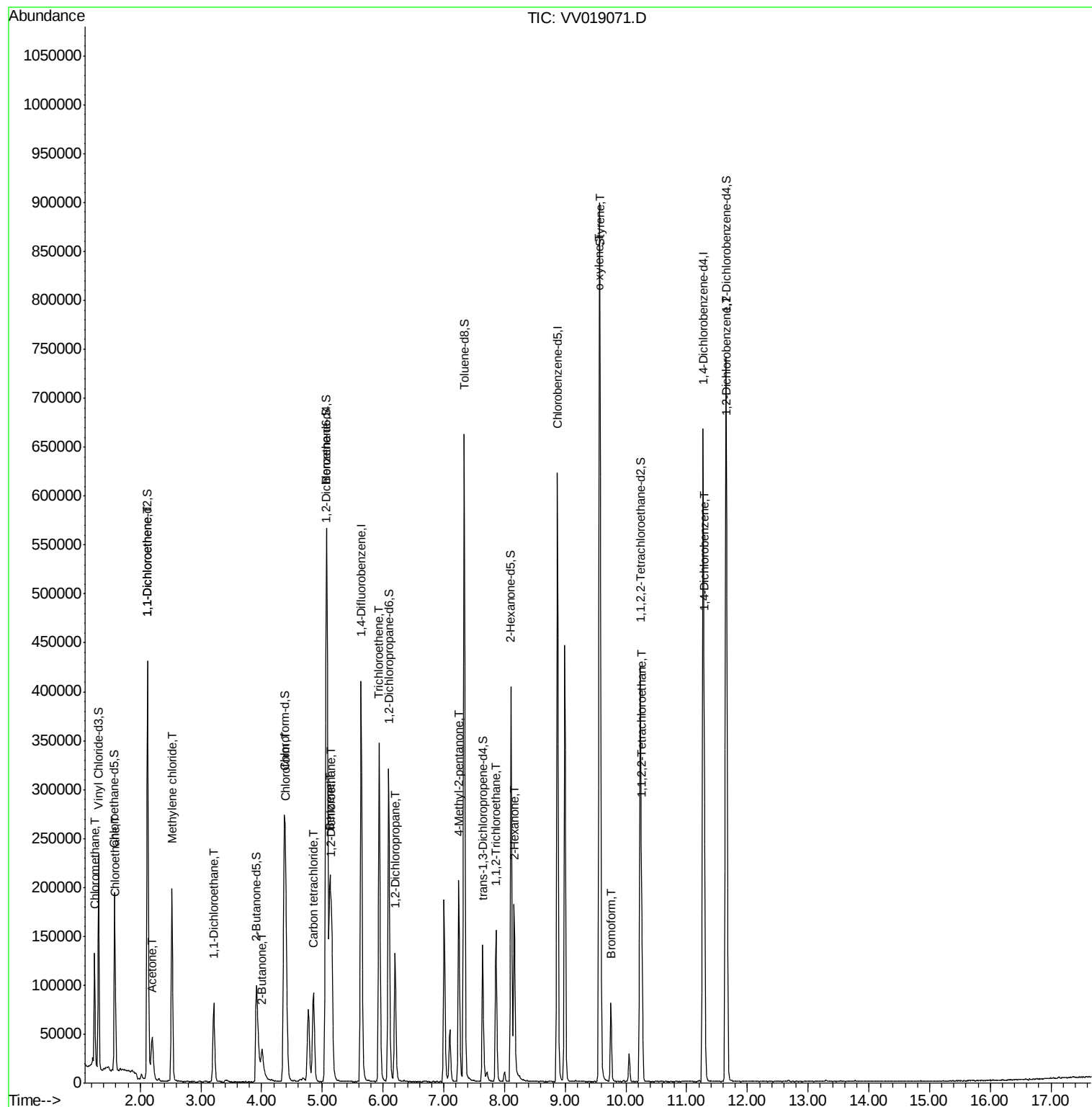
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.58	104	177543	26.111	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.26	83	72639	18.530	ug/L	98
61) Bromoform	9.75	173	35317	20.206	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	100933	20.739	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	126160	26.865	ug/L	99

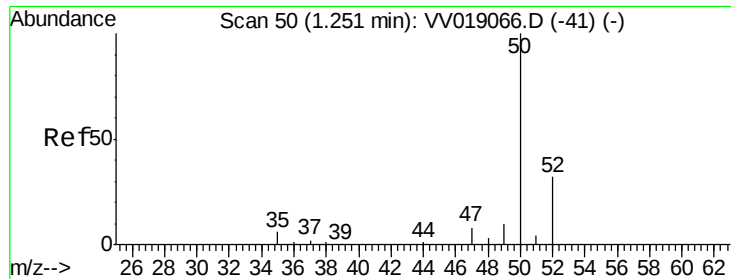
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV102220\
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#3

Chloromethane

Concen: 21.504 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

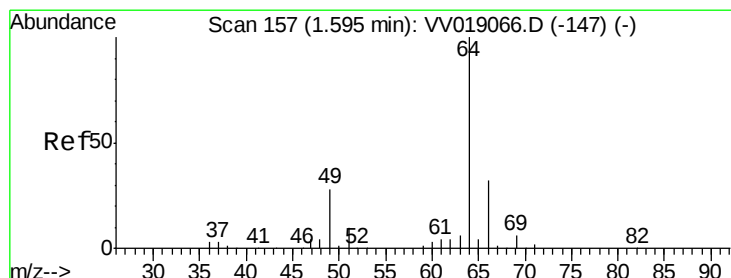
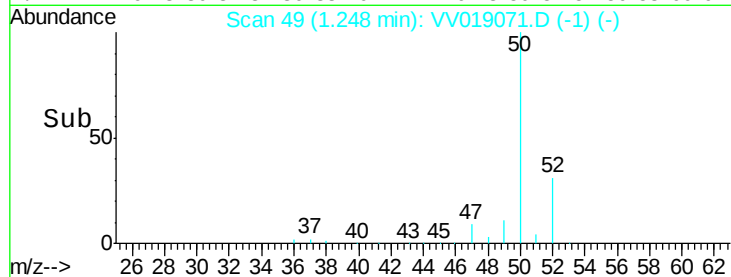
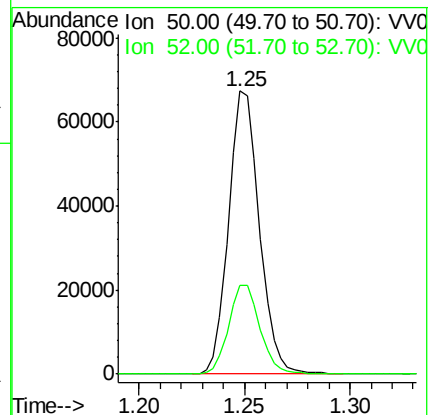
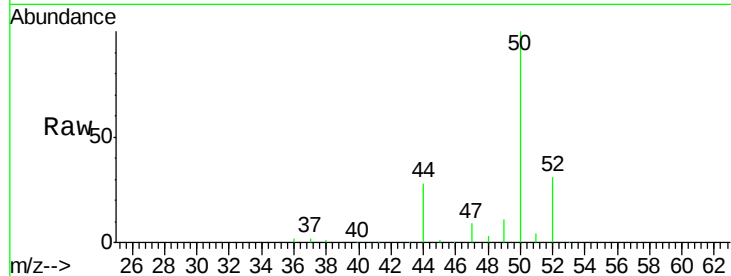
X2P71

Tot Ion: 50 Resp: 68132

Ion Ratio Lower Upper

50 100

52 31.5 22.7 42.1



#8

Chloroethane

Concen: 15.800 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019071.D

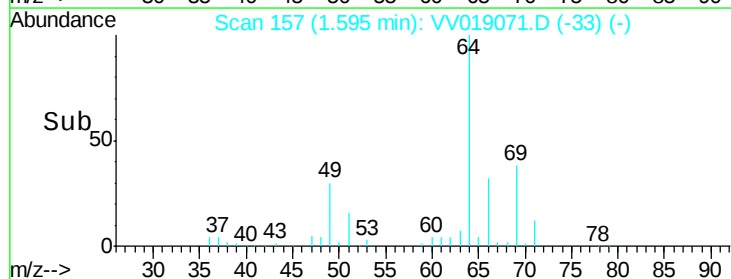
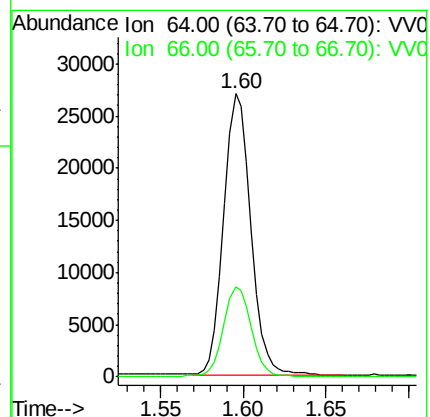
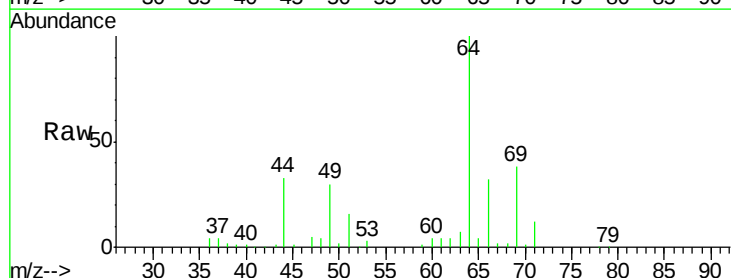
Acq: 22 Oct 2020 15:43

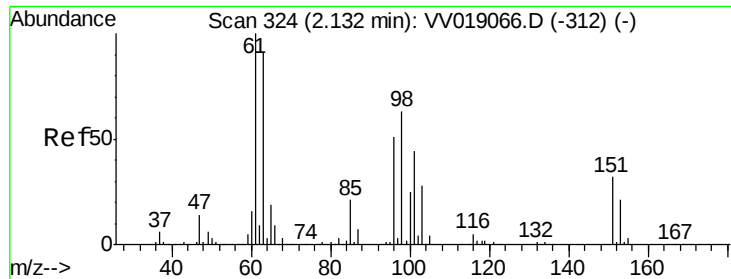
Tgt Ion: 64 Resp: 30925

Ion Ratio Lower Upper

64 100

66 31.7 22.5 41.9





#12

1,1-Dichloroethene

Concen: 16.593 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

X2P71

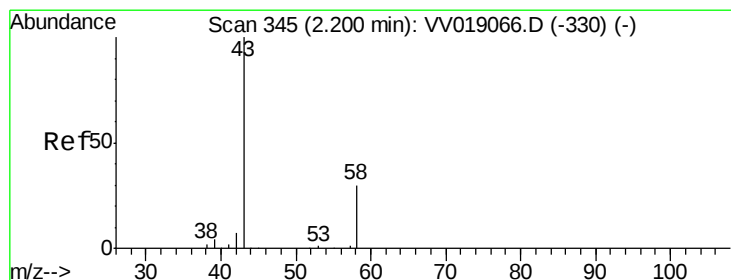
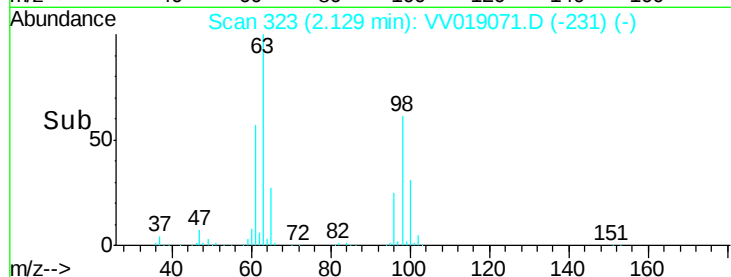
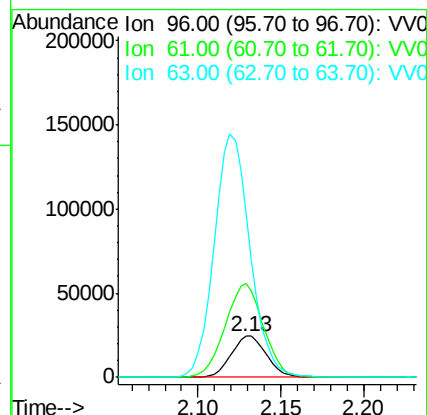
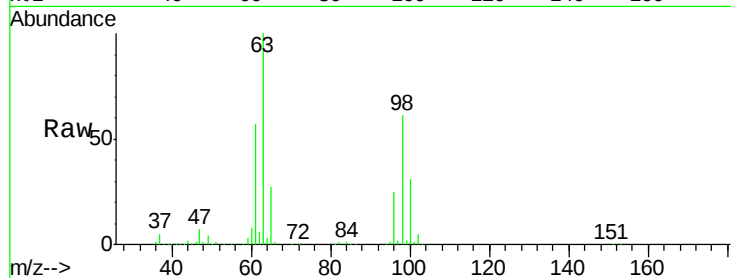
Tot Ion: 96 Resp: 36248

Ion Ratio Lower Upper

96 100

61 226.1 138.7 257.7

63 394.0 126.3 234.6#



#13

Acetone

Concen: 49.014 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.00 min

Lab File: VV019071.D

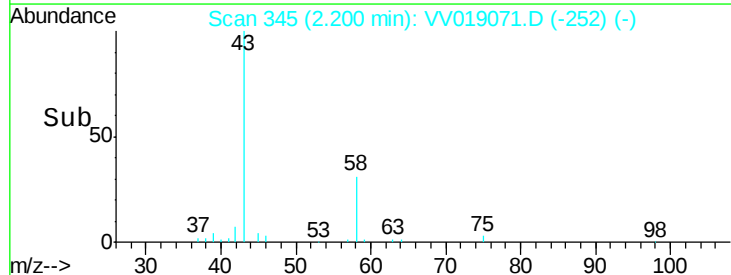
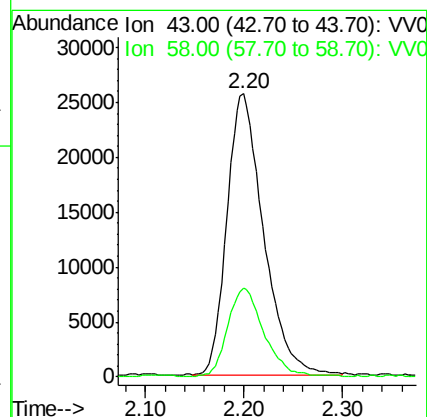
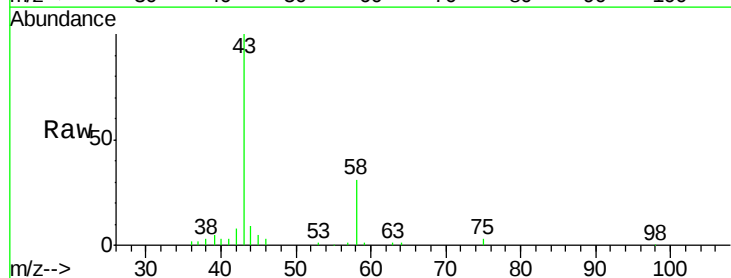
Acq: 22 Oct 2020 15:43

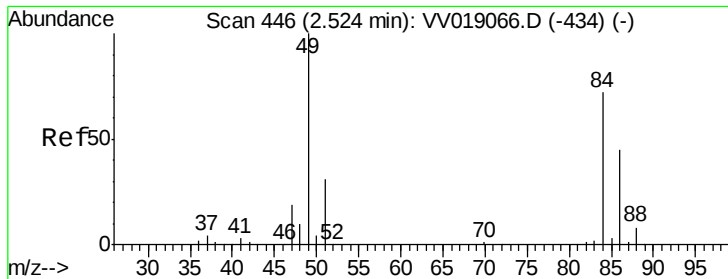
Tgt Ion: 43 Resp: 66382

Ion Ratio Lower Upper

43 100

58 31.3 0.0 60.2

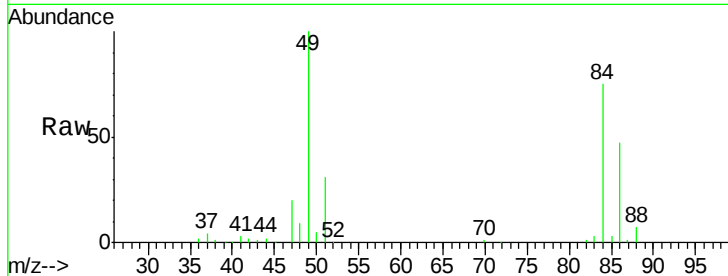




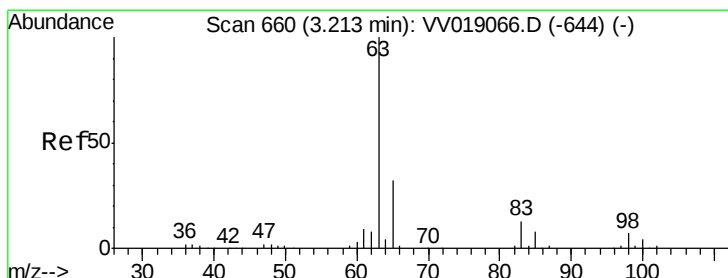
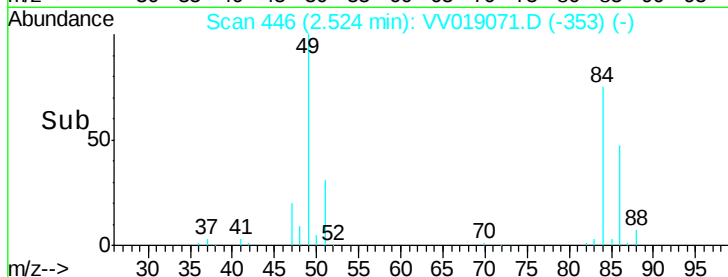
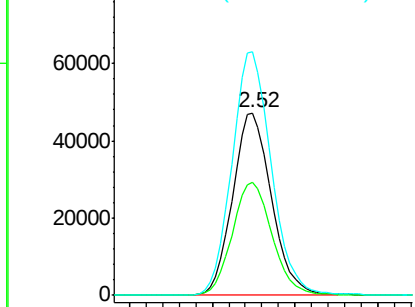
#16
Methvlene chloride
Concen: 30.256 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019071.D
Acq: 22 Oct 2020 15:43

Instrument :
MSVOA_V
ClientSampled :
X2P71

Tot Ion: 84 Resp: 77035
Ion Ratio Lower Upper
84 100
86 62.1 44.2 82.2
49 133.2 98.0 182.0

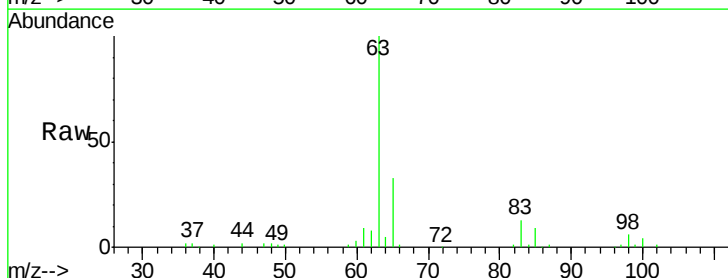


Abundance Ion 84.00 (83.70 to 84.70): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.00 (48.70 to 49.70): VV0

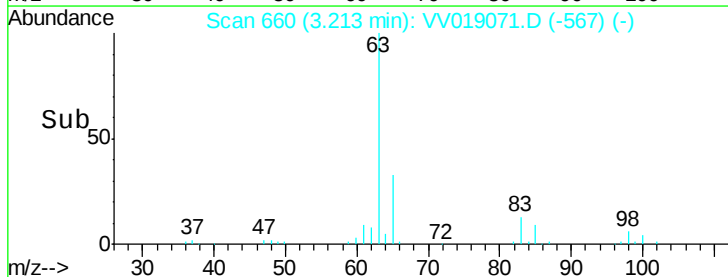
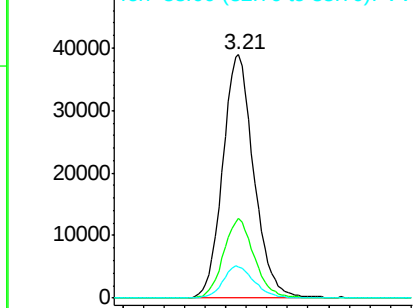


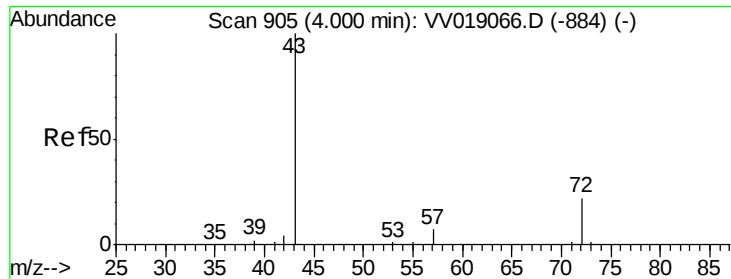
#19
1,1-Dichloroethane
Concen: 17.597 ug/L
RT: 3.21 min Scan# 660
Delta R.T. -0.00 min
Lab File: VV019071.D
Acq: 22 Oct 2020 15:43

Tgt Ion: 63 Resp: 82017
Ion Ratio Lower Upper
63 100
65 32.7 22.7 42.1
83 13.0 9.0 16.8



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0





#22

2-Butanone

Concen: 32.337 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.01 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Instrument :

MSVOA_V

ClientSampled :

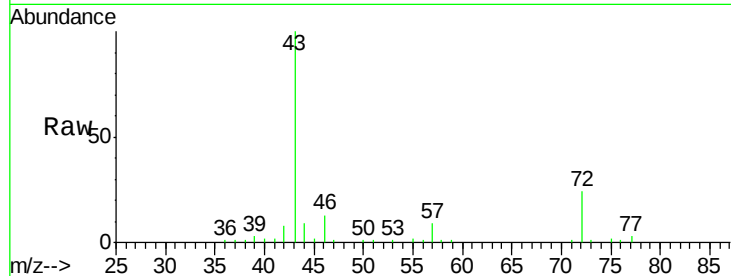
X2P71

Tot Ion: 43 Resp: 60037

Ion Ratio Lower Upper

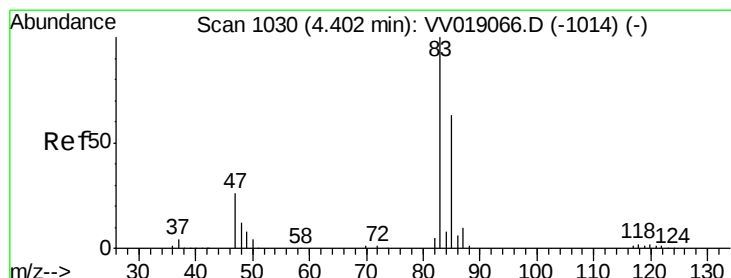
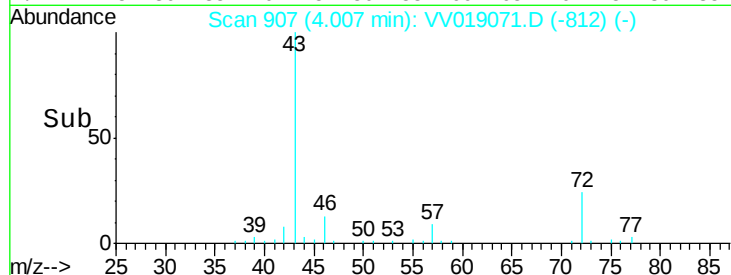
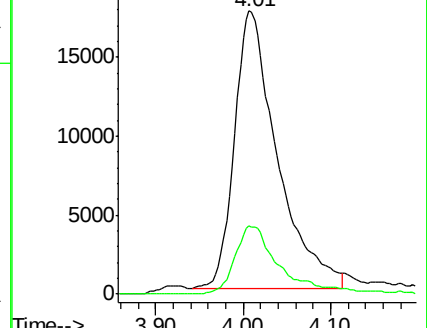
43 100

72 22.4 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VV019066.D (-884) (-)

Ion 72.00 (71.70 to 72.70): VV019066.D (-884) (-)



#25

Chloroform

Concen: 28.932 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV019071.D

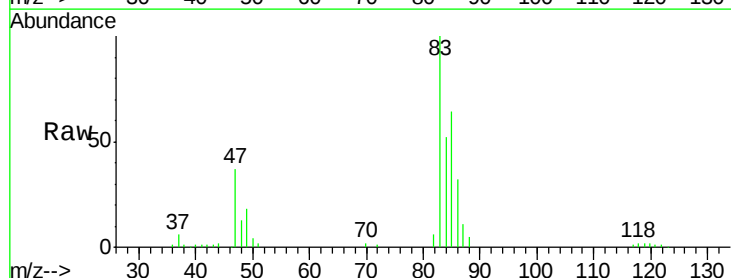
Acq: 22 Oct 2020 15:43

Tgt Ion: 83 Resp: 132838

Ion Ratio Lower Upper

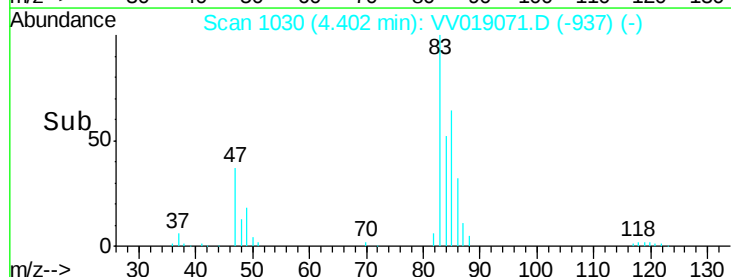
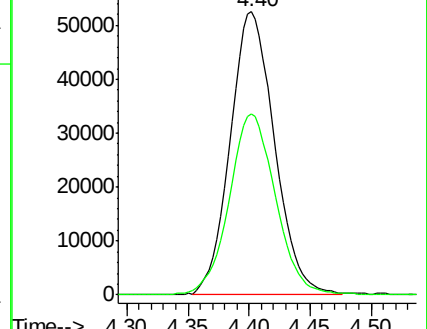
83 100

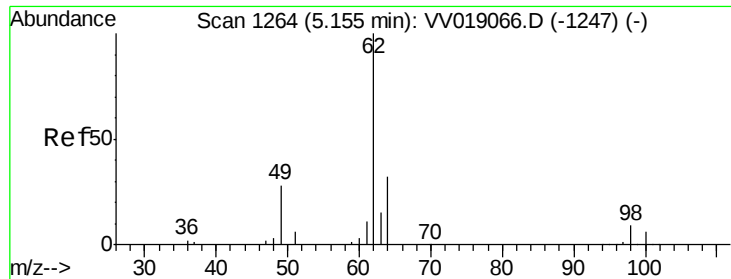
85 64.1 44.5 82.7



Abundance Ion 83.00 (82.70 to 83.70): VV019066.D (-1014) (-)

Ion 85.00 (84.70 to 85.70): VV019066.D (-1014) (-)

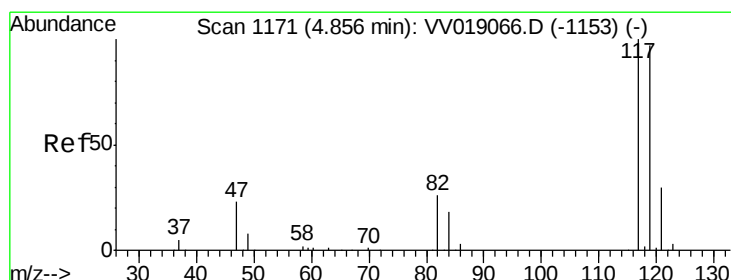
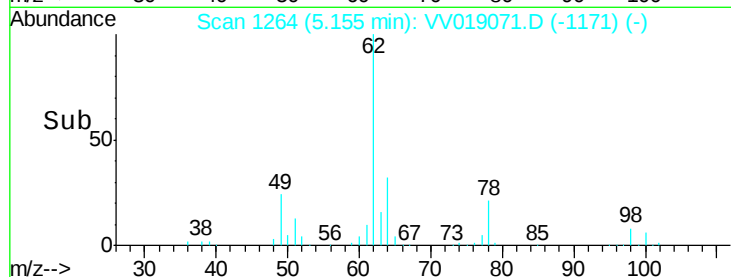
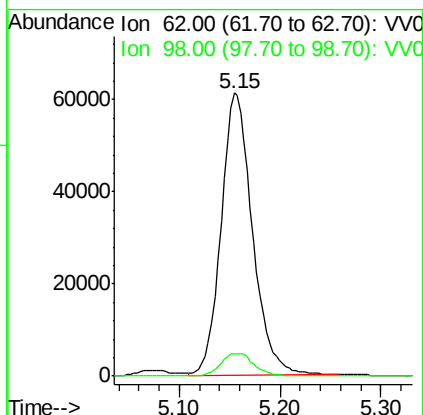
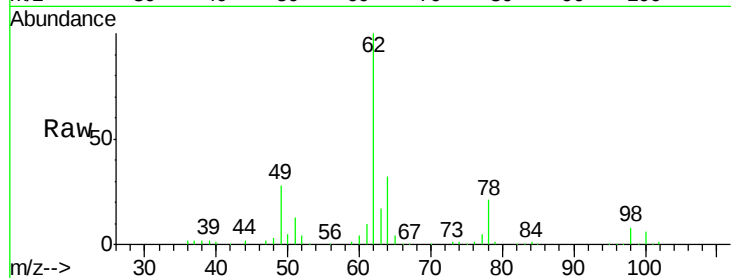




#27
 1,2-Dichloroethane
 Concen: 34.870 ug/L
 RT: 5.15 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VV019071.D
 Acq: 22 Oct 2020 15:43

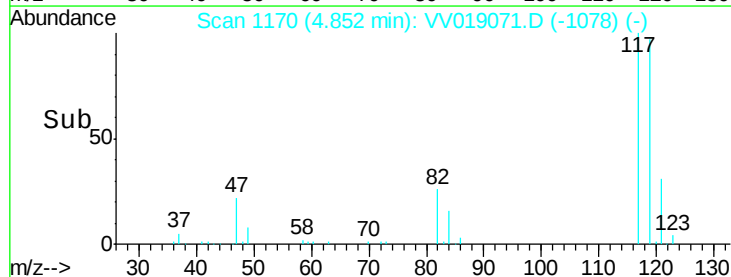
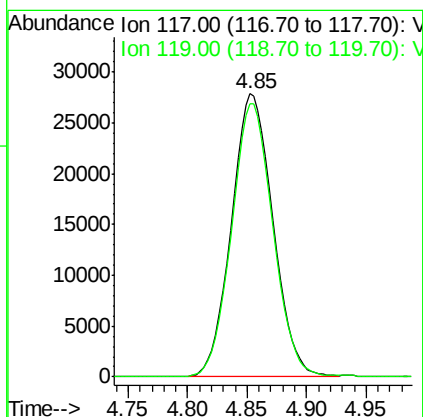
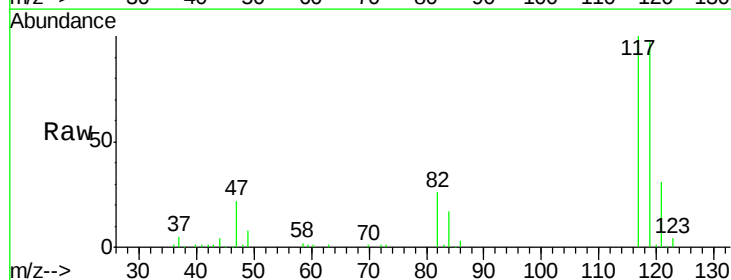
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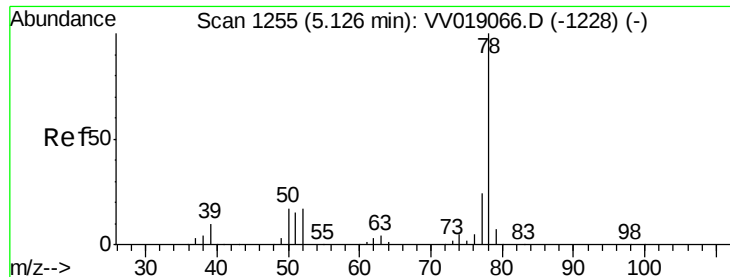
Tot Ion: 62 Resp: 132872
 Ion Ratio Lower Upper
 62 100
 98 8.0 6.9 10.3



#31
 Carbon tetrachloride
 Concen: 19.383 ug/L
 RT: 4.85 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VV019071.D
 Acq: 22 Oct 2020 15:43

Tgt Ion: 117 Resp: 67337
 Ion Ratio Lower Upper
 117 100
 119 96.1 77.2 115.8





#33

Benzene

Concen: 19.530 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

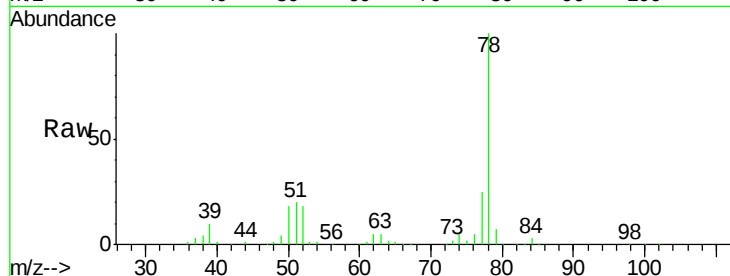
Instrument :

MSVOA_V

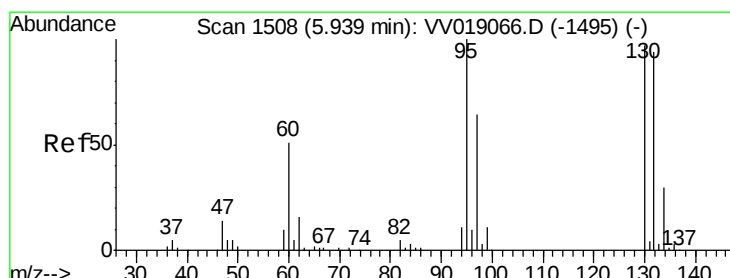
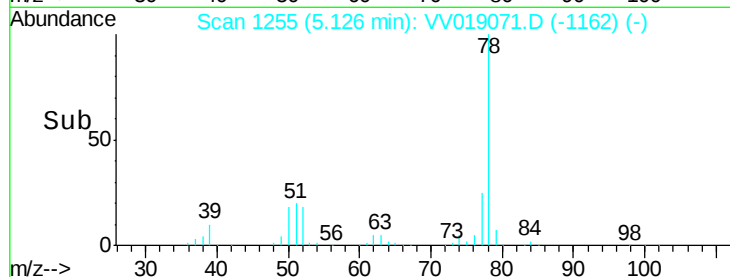
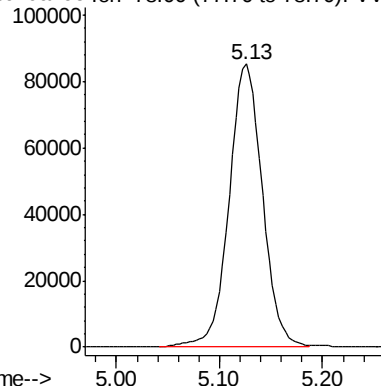
ClientSampleId :

X2P71

Tgt Ion: 78 Resp: 191358



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 48.158 ug/L

RT: 5.94 min Scan# 1507

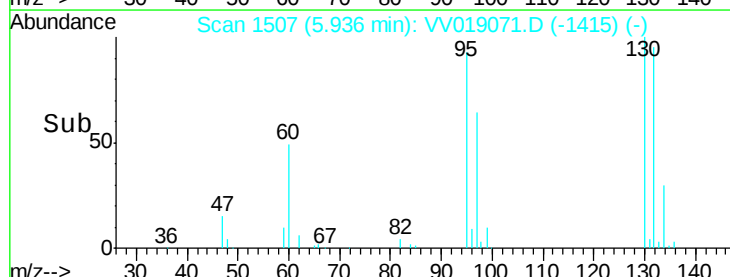
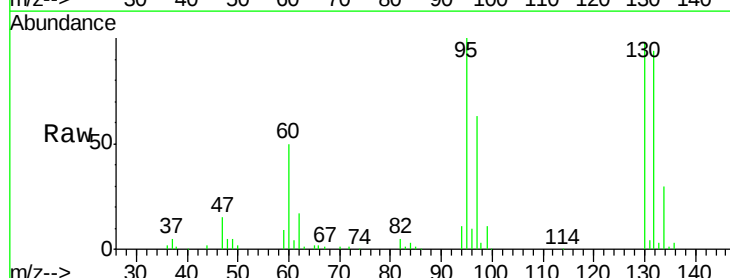
Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Tgt Ion: 95 Resp: 119236

Ion	Ratio	Lower	Upper
95	100		
97	63.2	44.6	82.8
132	93.9	66.0	122.6
130	98.4	67.6	125.6

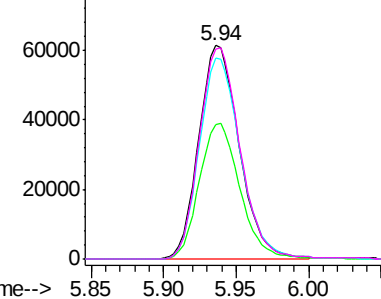


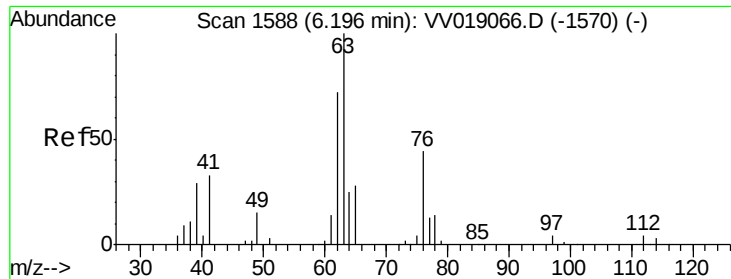
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

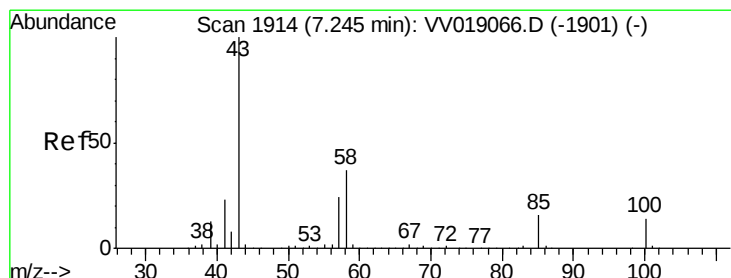
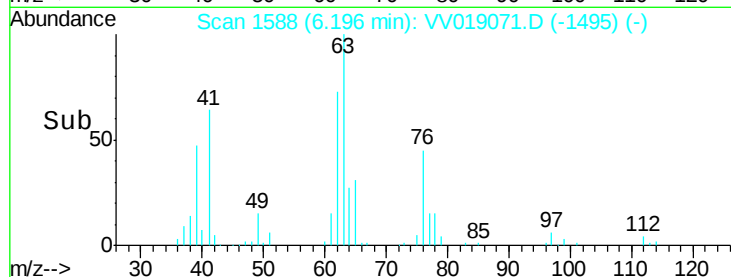
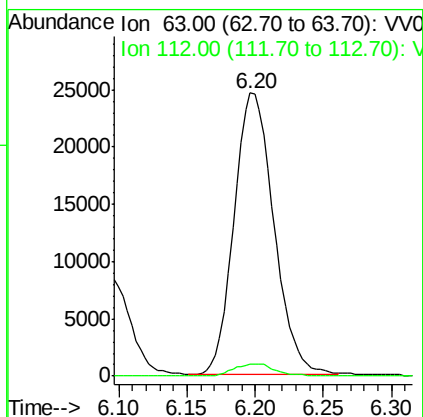
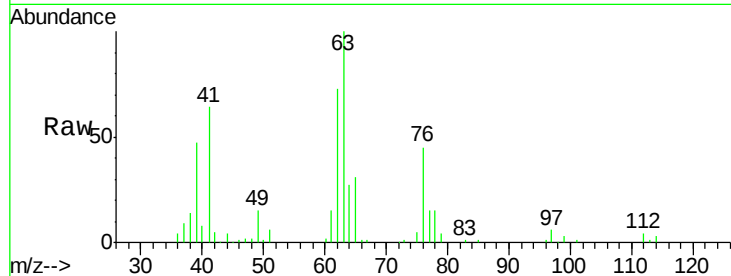




#37
 1,2-Dichloropropane
 Concen: 18.558 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VV019071.D
 Acq: 22 Oct 2020 15:43

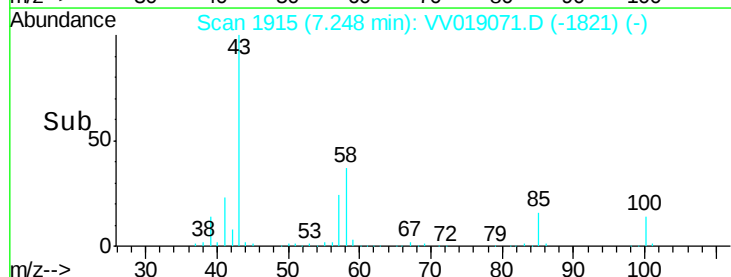
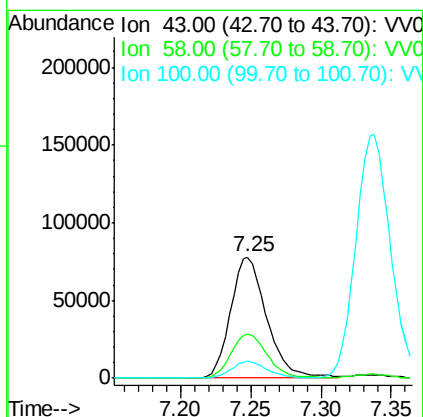
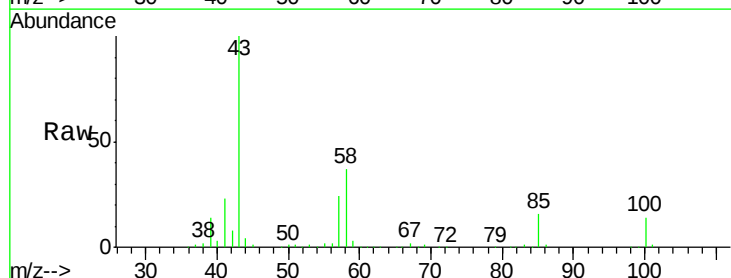
Instrument :
 MSVOA_V
 ClientSampled :
 X2P71

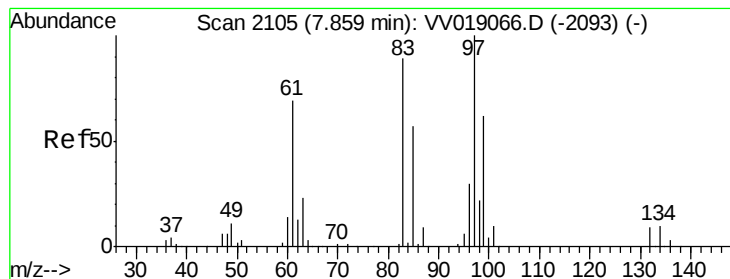
Tot Ion: 63 Resp: 50059
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.5 5.3



#40
 4-Methyl-2-pentanone
 Concen: 38.332 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV019071.D
 Acq: 22 Oct 2020 15:43

Tgt Ion: 43 Resp: 139494
 Ion Ratio Lower Upper
 43 100
 58 36.6 29.6 44.4
 100 13.8 10.9 16.3





#45

1,1,2-Trichloroethane

Concen: 19.424 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

X2P71

Tot Ion: 97 Resp: 46276

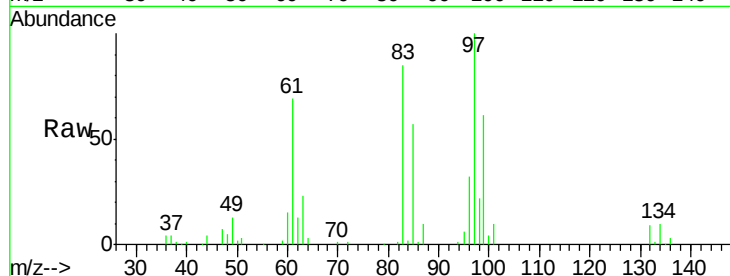
Ion Ratio Lower Upper

97 100

99 61.1 43.5 80.9

83 85.4 62.2 115.4

85 57.2 39.9 74.1

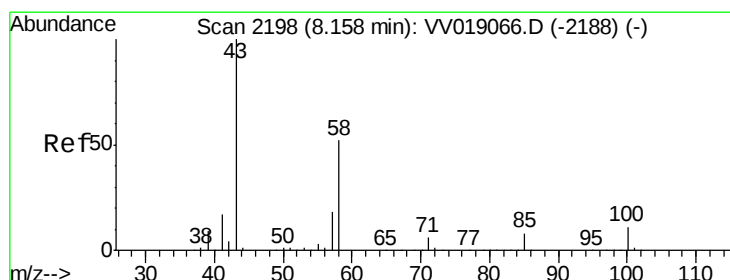
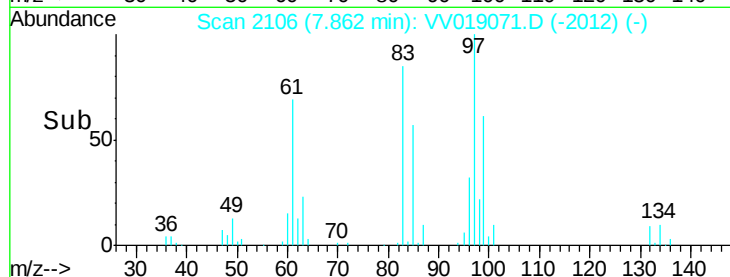
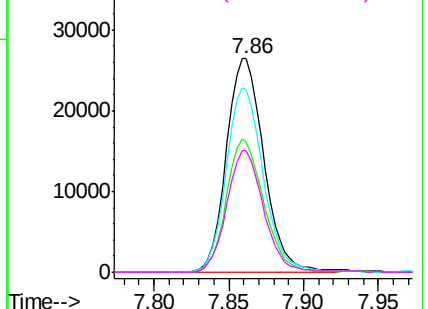


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#48

2-Hexanone

Concen: 42.824 ug/L

RT: 8.16 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Tgt Ion: 43 Resp: 120255

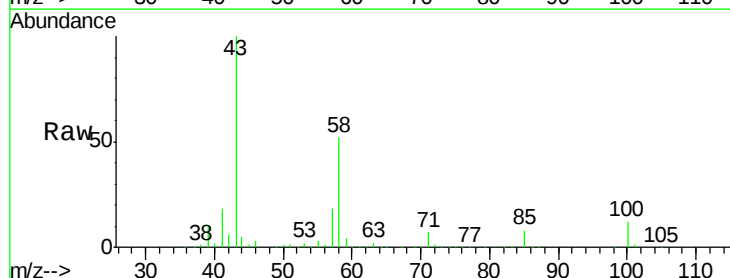
Ion Ratio Lower Upper

43 100

58 51.5 41.1 61.7

57 17.5 14.7 22.1

100 11.1 8.6 12.8

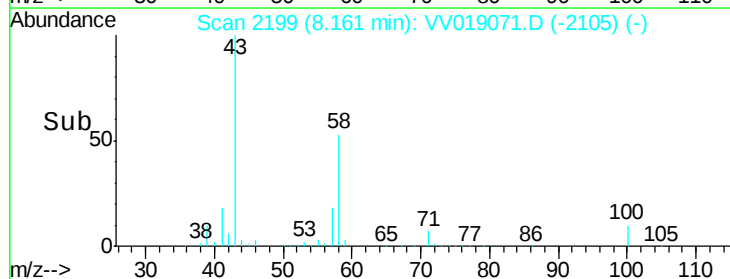
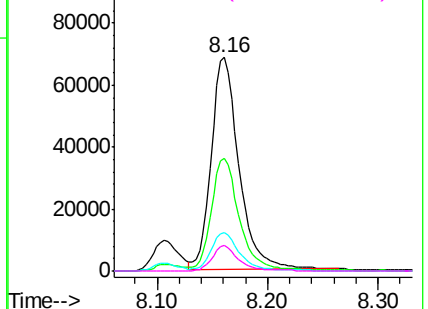


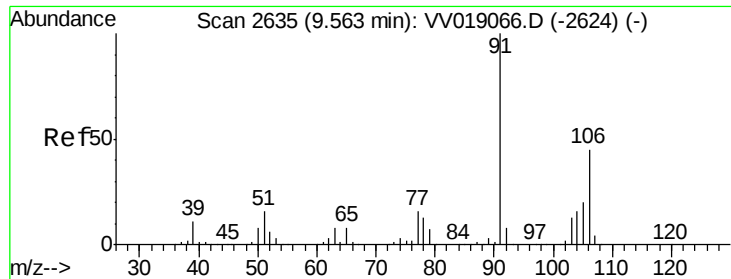
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

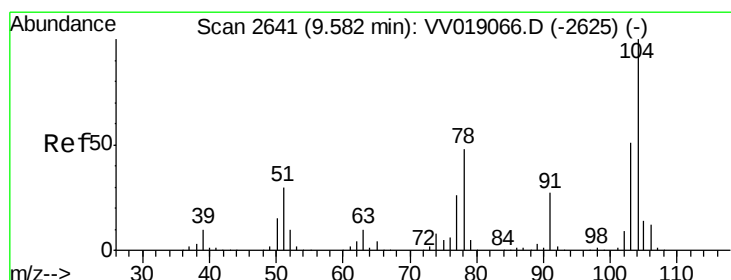
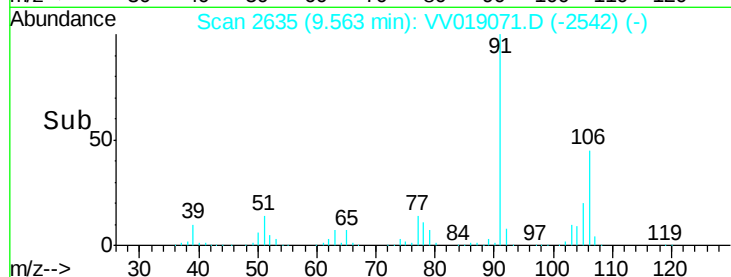
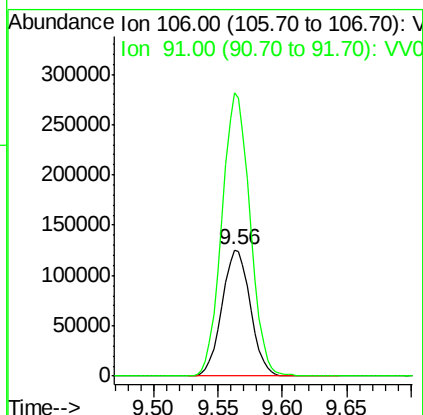
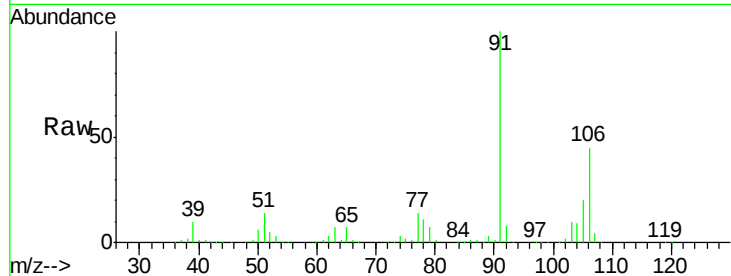




#54
o-xylene
Concen: 49.917 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. 0.00 min
Lab File: VV019071.D
Acq: 22 Oct 2020 15:43

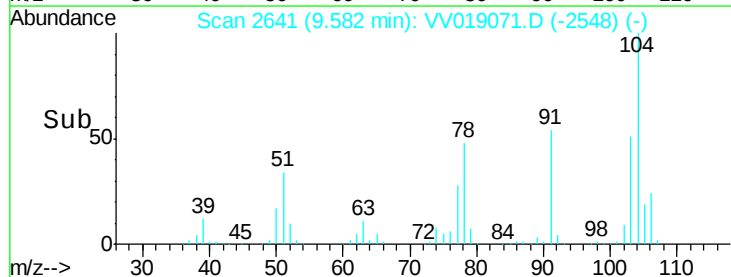
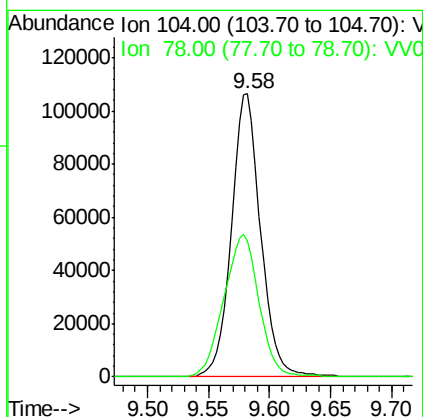
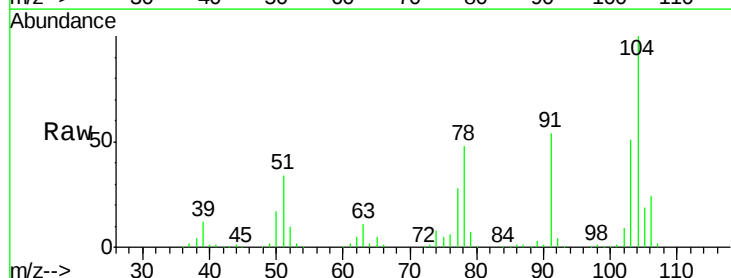
Instrument :
MSVOA_V
ClientSampled :
X2P71

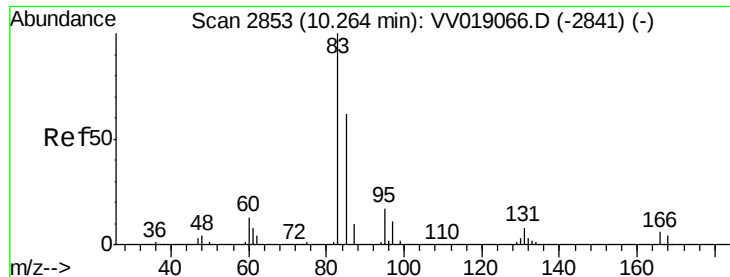
Tot Ion:106 Resp: 191345
Ion Ratio Lower Upper
106 100
91 224.5 154.3 286.5



#55
Styrene
Concen: 26.111 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. -0.00 min
Lab File: VV019071.D
Acq: 22 Oct 2020 15:43

Tgt Ion:104 Resp: 177543
Ion Ratio Lower Upper
104 100
78 48.1 33.2 61.7





#58

1,1,2,2-Tetrachloroethane

Concen: 18.530 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

X2P71

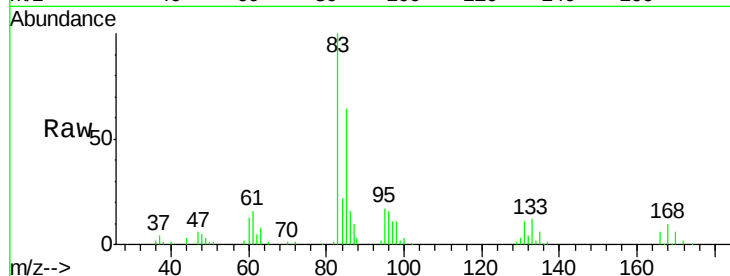
Tot Ion: 83 Resp: 72639

Ion Ratio Lower Upper

83 100

85 64.4 44.2 82.2

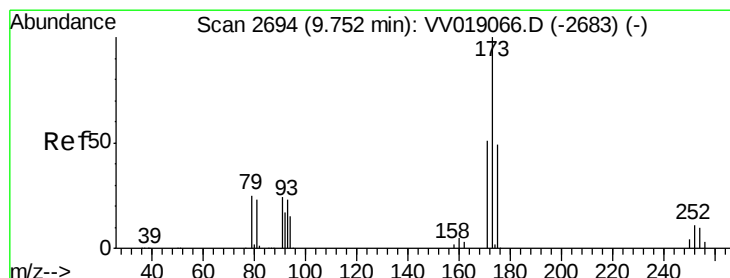
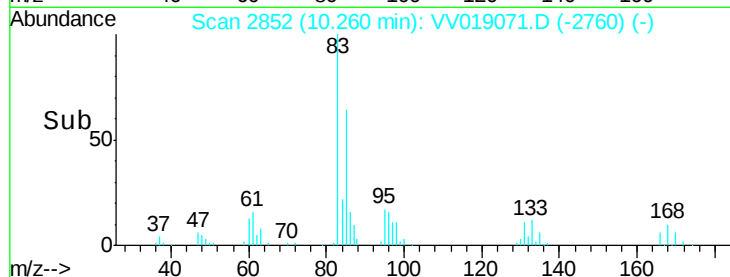
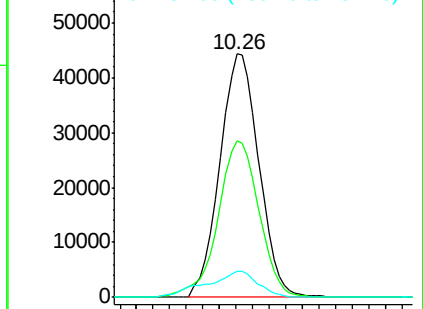
131 10.6 7.4 11.2



Abundance Ion 83.00 (82.70 to 83.70): VV019071.D (-2760) (-)

Ion 85.00 (84.70 to 85.70): VV019071.D (-2760) (-)

Ion 131.00 (130.70 to 131.70): VV019071.D (-2760) (-)



#61

Bromoform

Concen: 20.206 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

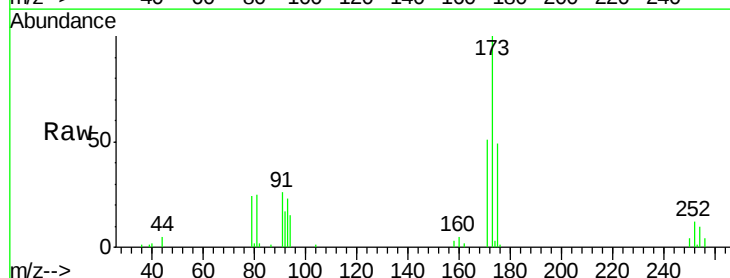
Tgt Ion: 173 Resp: 35317

Ion Ratio Lower Upper

173 100

175 48.1 38.3 57.5

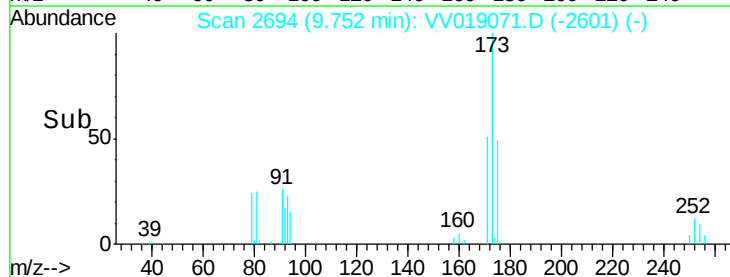
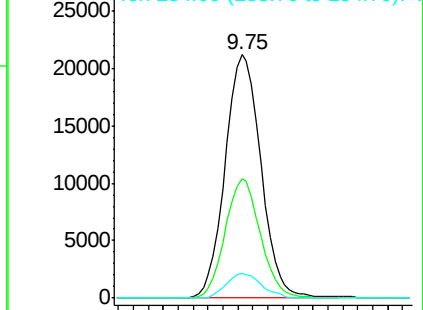
254 9.9 8.3 12.5

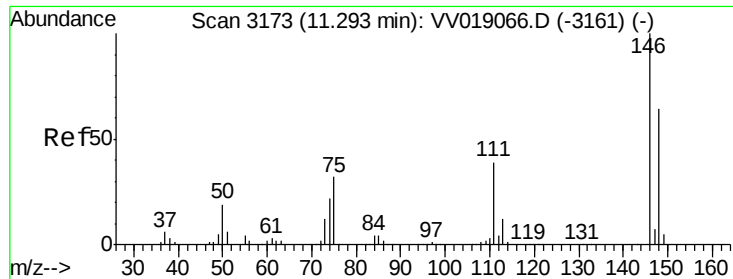


Abundance Ion 173.00 (172.70 to 173.70): VV019071.D (-2601) (-)

Ion 175.00 (174.70 to 175.70): VV019071.D (-2601) (-)

Ion 254.00 (253.70 to 254.70): VV019071.D (-2601) (-)





#63

1,4-Dichlorobenzene

Concen: 20.739 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

Instrument :

MSVOA_V

ClientSampleId :

X2P71

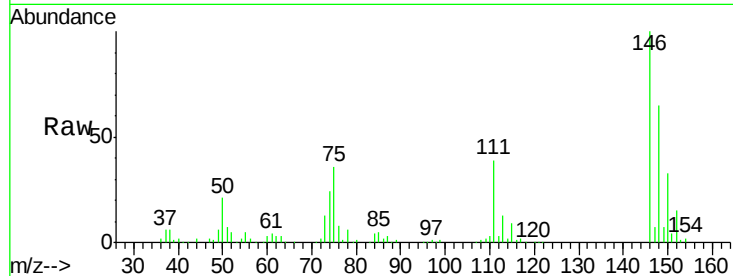
Tot Ion:146 Resp: 100933

Ion Ratio Lower Upper

146 100

111 39.1 27.8 51.6

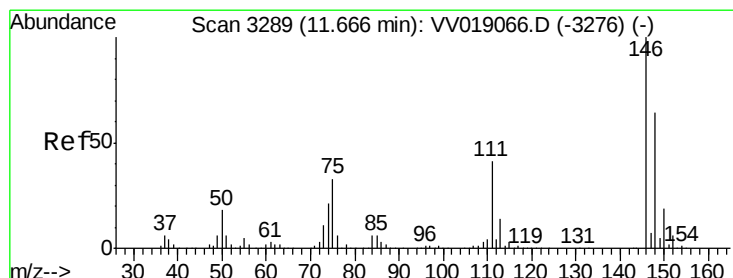
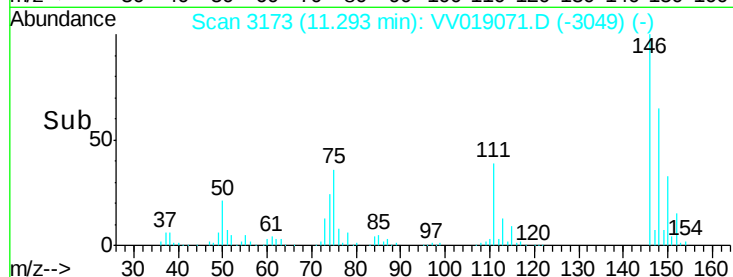
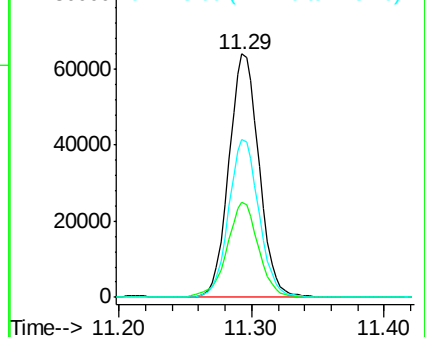
148 64.8 45.1 83.9



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: 26.865 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019071.D

Acq: 22 Oct 2020 15:43

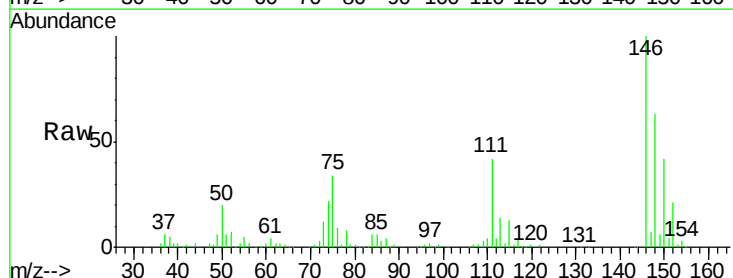
Tgt Ion:146 Resp: 126160

Ion Ratio Lower Upper

146 100

111 42.0 33.3 49.9

148 62.9 51.1 76.7



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

