

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042420\
 Data File : VV015684.D
 Acq On : 24 Apr 2020 19:14
 Operator : SY/MD
 Sample : L2370-23MSD
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 25 00:22:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 25 00:15:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	123621	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	119563	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	58142	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	30216	4.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.60%
7) Chloroethane-d5	1.58	69	28465	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.40%
11) 1,1-Dichloroethene-d2	2.12	63	67046	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.80%
20) 2-Butanone-d5	3.92	46	107972	52.05	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.10%
24) Chloroform-d	4.38	84	73156	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.06	65	42446	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.07	84	136669	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
36) 1,2-Dichloropropane-d6	6.10	67	44439	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	7.34	98	124543	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	7.64	79	11875	3.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	67.40%
46) 2-Hexanone-d5	8.11	63	84150	48.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.88%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	32344	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	11.65	152	48732	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

				Ovalue
3) Chloromethane	1.22	50	13726	1.498 ug/L # 67
5) Vinyl chloride	1.32	62	300827	30.748 ug/L 99
8) Chloroethane	1.36	64	406599	63.279 ug/L # 52
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	544	0.070 ug/L # 29
12) 1,1-Dichloroethene	2.13	96	40426	5.619 ug/L 93
15) Methyl Acetate	2.54	43	29073	8.487 ug/L # 56
18) trans-1,2-Dichloroethene	2.78	96	13501	1.676 ug/L 99
22) cis-1,2-Dichloroethene	3.94	96	186763	20.967 ug/L 99
30) Cyclohexane	4.70	56	68146	4.704 ug/L 99
33) Benzene	5.13	78	200923	5.882 ug/L 100
34) Trichloroethene	5.94	95	51535	5.463 ug/L 98
35) Methylcyclohexane	6.15	83	37010	2.556 ug/L 96
42) Toluene	7.41	91	203462	5.574 ug/L 100
45) 1,1,2-Trichloroethane	7.81	97	1247	0.211 ug/L # 14
48) 2-Hexanone	8.11	43	12501	3.111 ug/L # 73
51) Chlorobenzene	8.90	112	129833	5.430 ug/L 98

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Response via : Initial Calibration

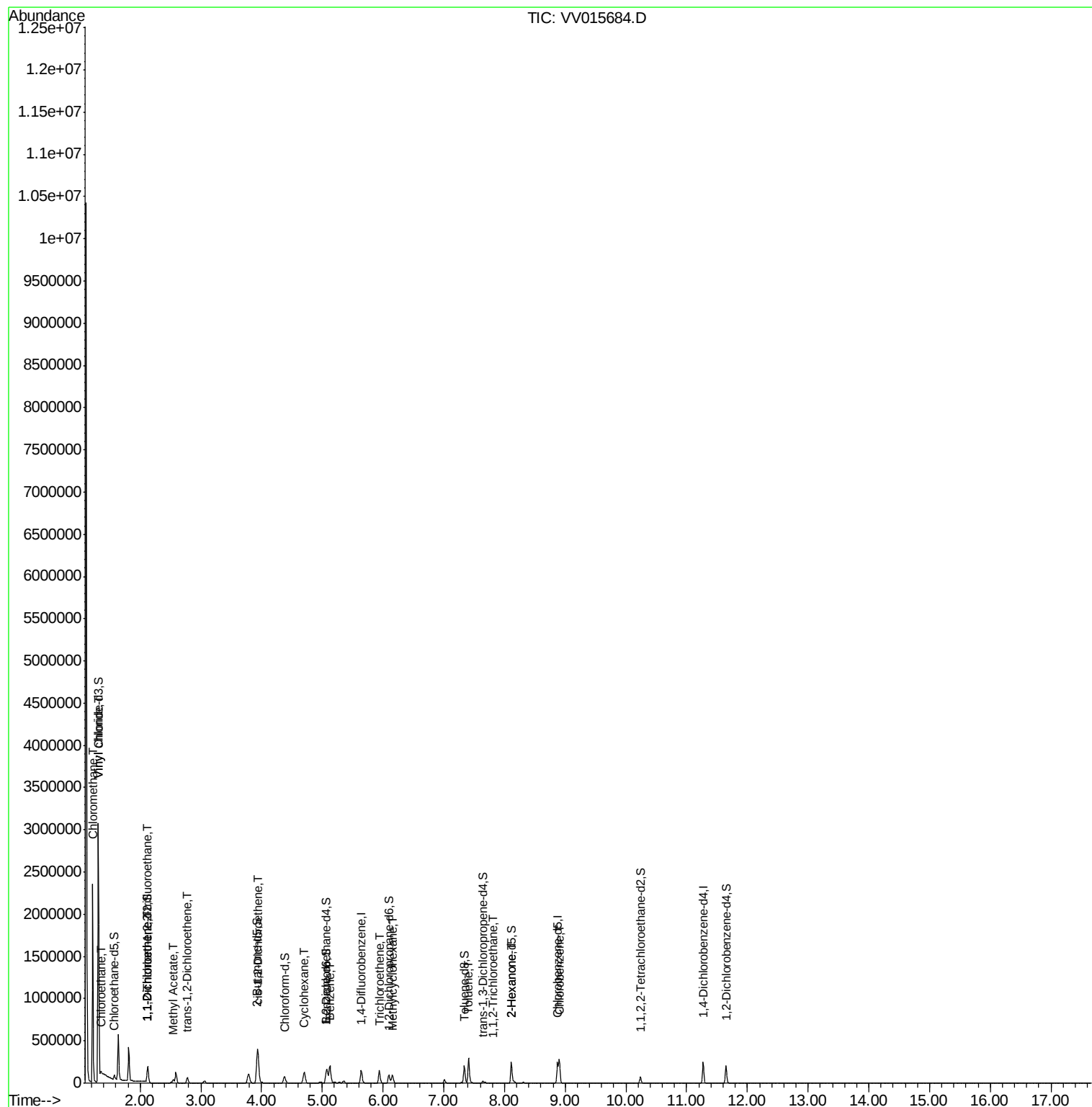
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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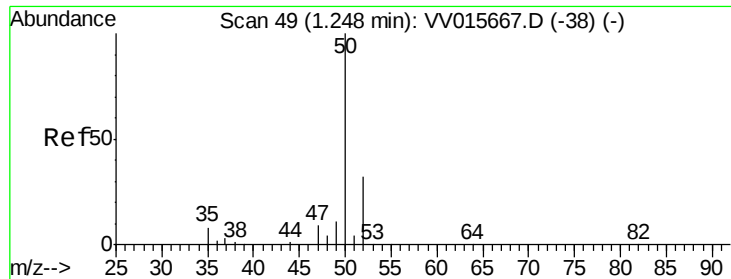
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Apr 25 00:15:39 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.498 ug/L

RT: 1.22 min Scan# 40

Delta R.T. -0.03 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

Instrument :

MSVOA_V

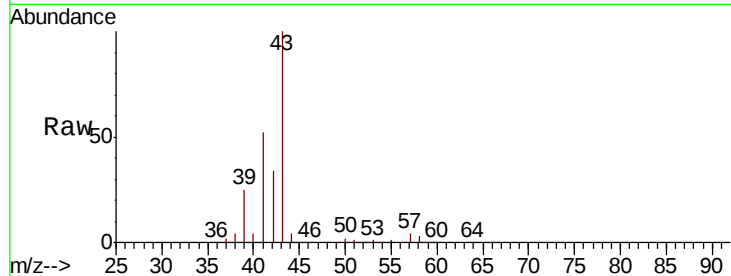
ClientSampled :

Tot Ion: 50 Resp: 13726

Ion Ratio Lower Upper

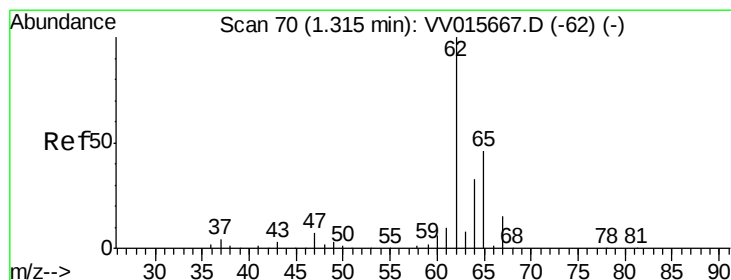
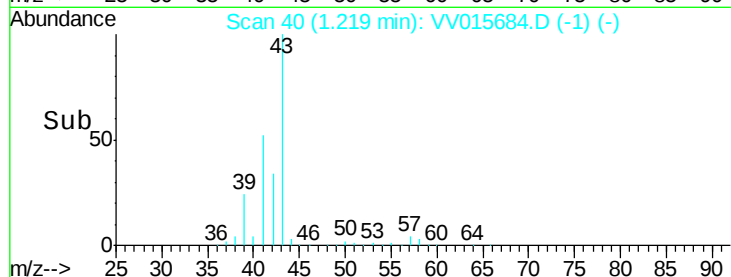
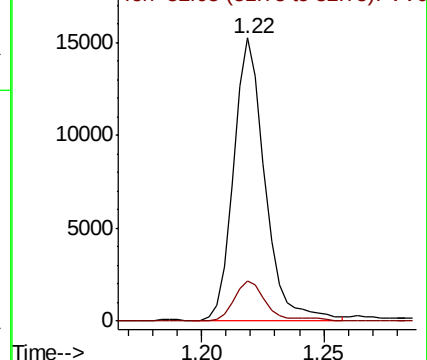
50 100

52 14.3 22.9 42.5#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 30.748 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VV015684.D

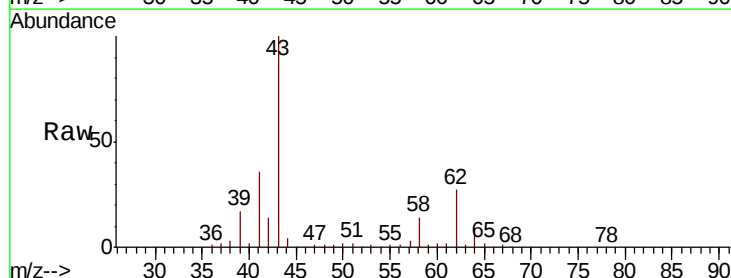
Acq: 24 Apr 2020 19:14

Tgt Ion: 62 Resp: 300827

Ion Ratio Lower Upper

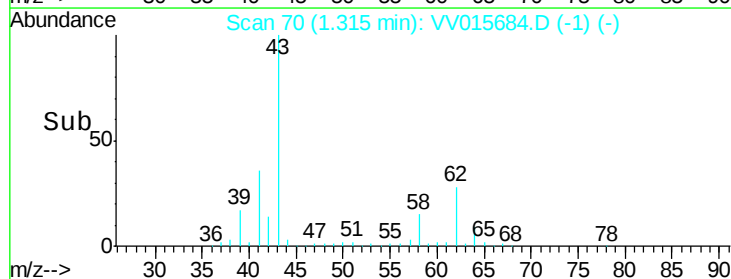
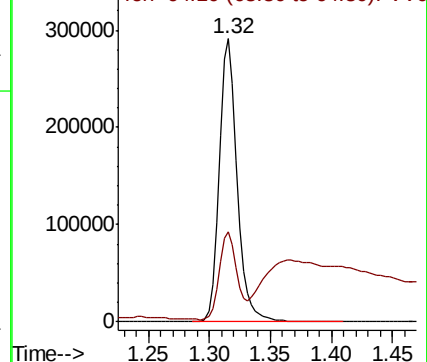
62 100

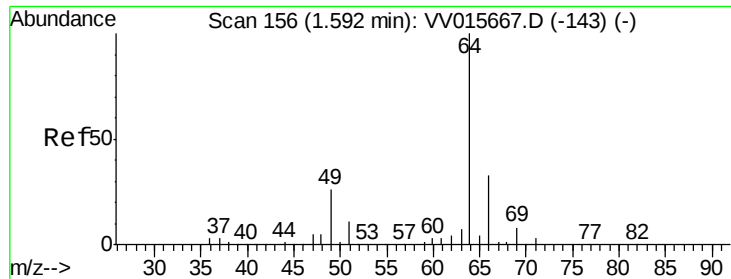
64 32.0 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 63.279 ug/L

RT: 1.36 min Scan# 85

Delta R.T. -0.23 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

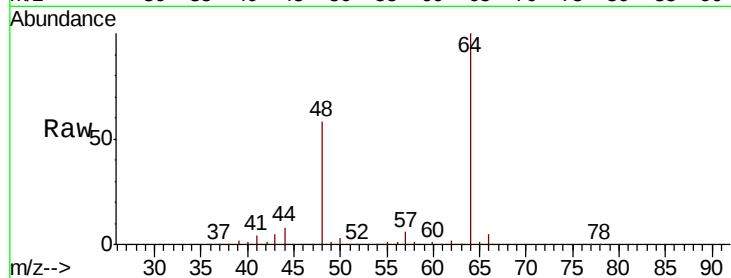
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 406599

Ion Ratio Lower Upper

64 100

66 5.1 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV015667.D (-143) (-)

Ion 66.05 (65.75 to 66.75): VV015667.D (-143) (-)

100000

80000

60000

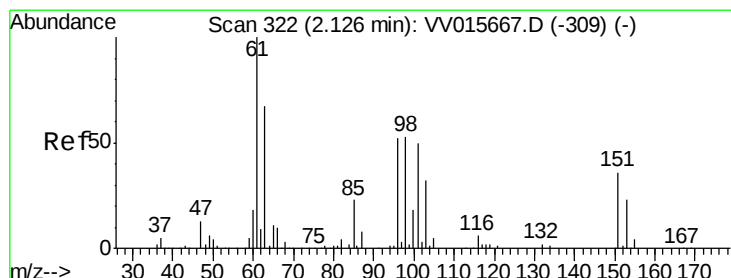
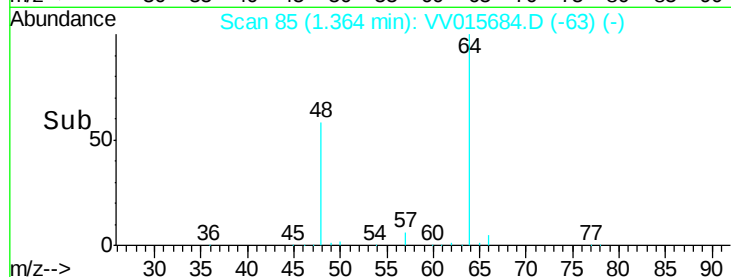
40000

20000

0

1.30 1.40 1.50 1.60

Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.070 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

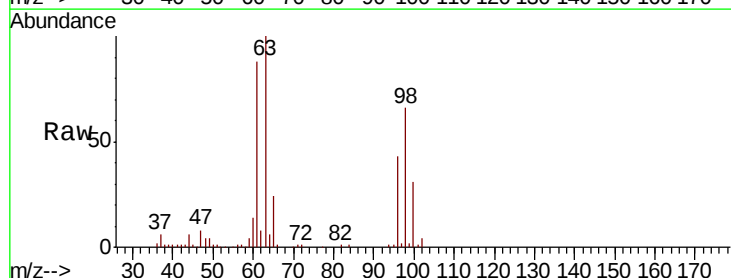
Tgt Ion:101 Resp: 544

Ion Ratio Lower Upper

101 100

85 11.9 36.1 54.1#

151 0.0 55.2 82.8#



Abundance Ion 101.00 (100.70 to 101.70): VV015667.D (-309) (-)

Ion 85.00 (84.70 to 85.70): VV015667.D (-309) (-)

Ion 151.00 (150.70 to 151.70): VV015667.D (-309) (-)

500

400

300

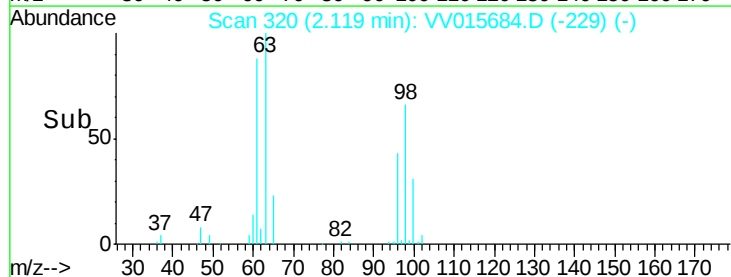
200

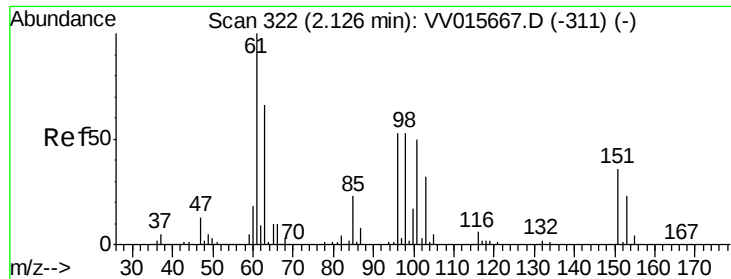
100

0

2.08 2.10 2.12 2.14

Time-->

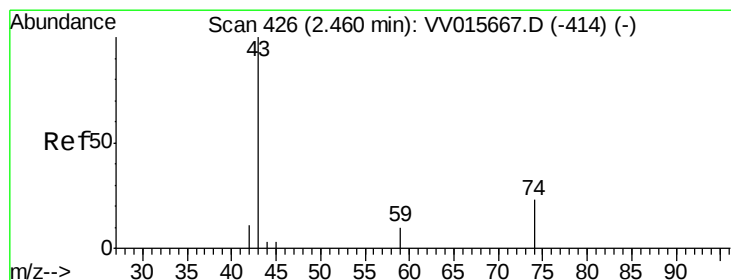
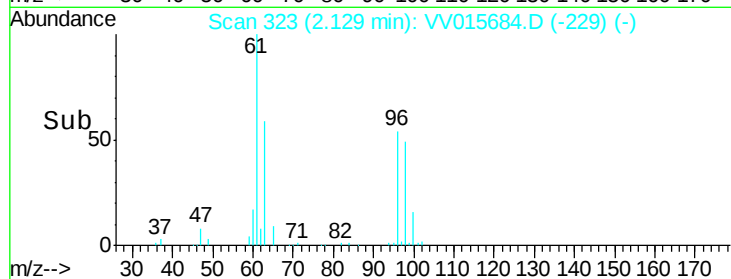
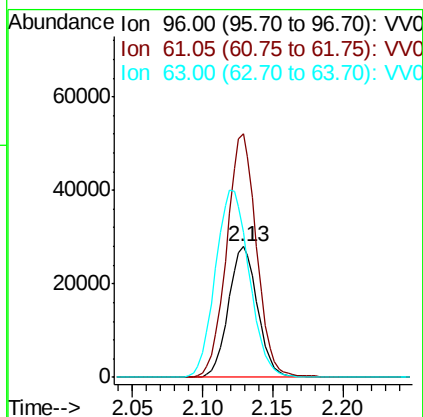
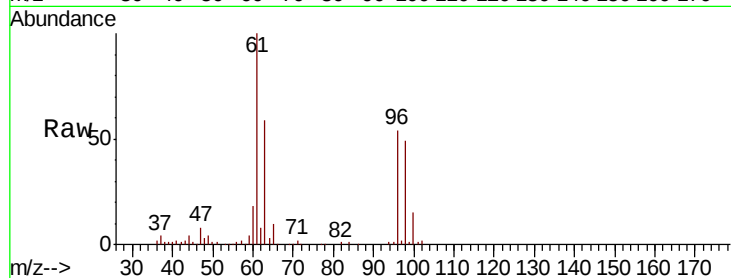




#12
 1,1-Dichloroethene
 Concen: 5.619 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. 0.00 min
 Lab File: VV015684.D
 Acq: 24 Apr 2020 19:14

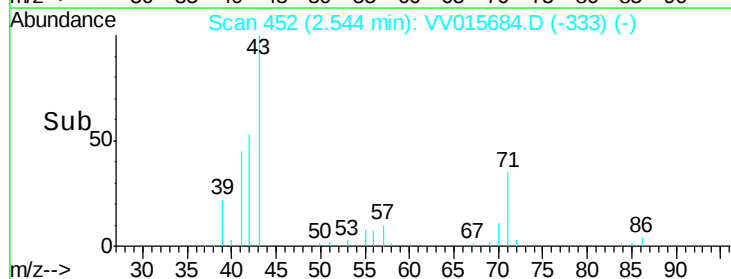
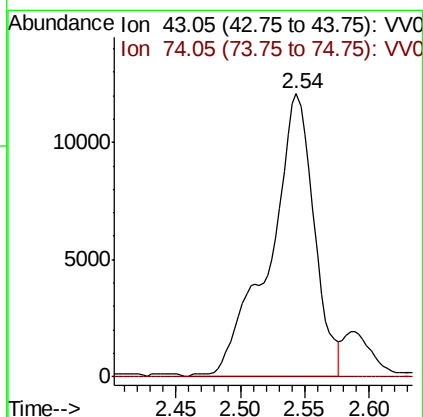
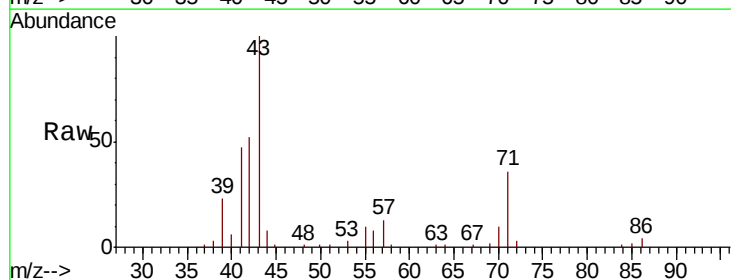
Instrument :
 MSVOA_V
 ClientSampleId :

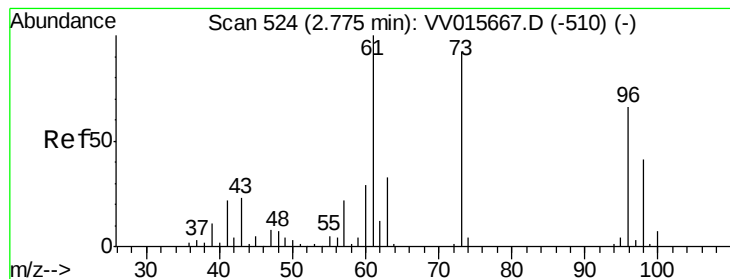
Tot Ion: 96 Resp: 40426
 Ion Ratio Lower Upper
 96 100
 61 186.3 130.1 241.7
 63 110.6 91.4 169.8



#15
 Methyl Acetate
 Concen: 8.487 ug/L
 RT: 2.54 min Scan# 452
 Delta R.T. 0.08 min
 Lab File: VV015684.D
 Acq: 24 Apr 2020 19:14

Tgt Ion: 43 Resp: 29073
 Ion Ratio Lower Upper
 43 100
 74 0.0 16.3 24.5#





#18

trans-1,2-Dichloroethene

Concen: 1.676 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

Instrument :
MSVOA_V
ClientSampled :

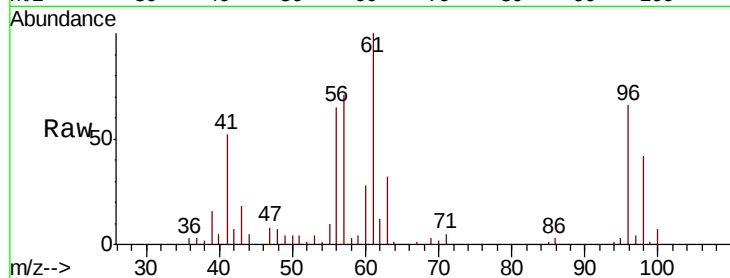
Tot Ion: 96 Resp: 13501

Ion Ratio Lower Upper

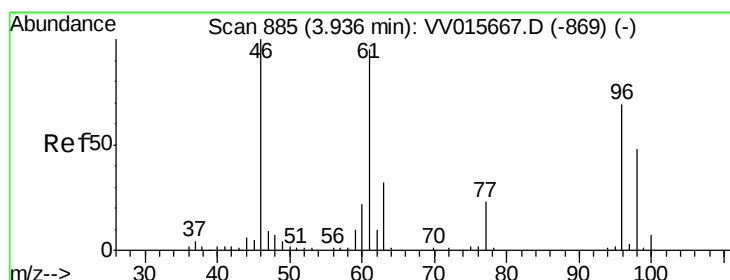
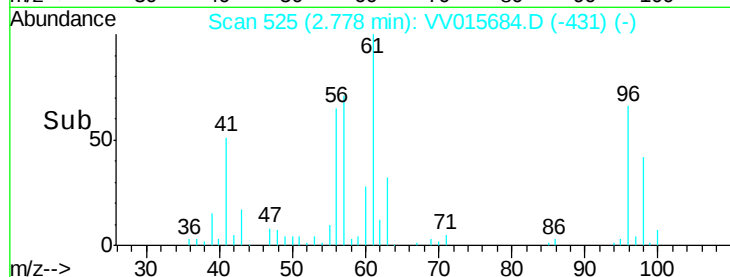
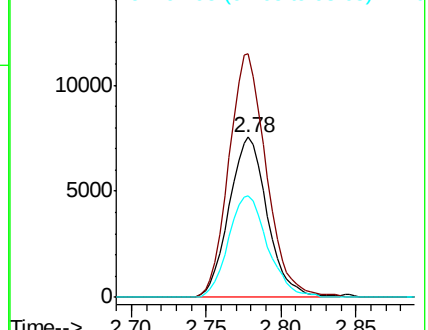
96 100

61 151.9 105.5 195.9

98 63.5 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0



#22

cis-1,2-Dichloroethene

Concen: 20.967 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.00 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

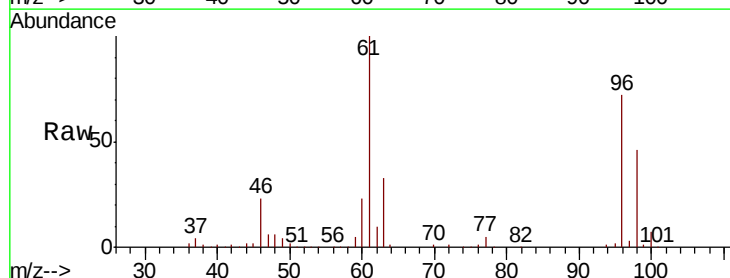
Tgt Ion: 96 Resp: 186763

Ion Ratio Lower Upper

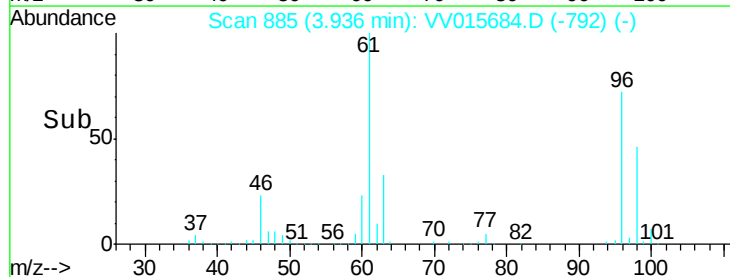
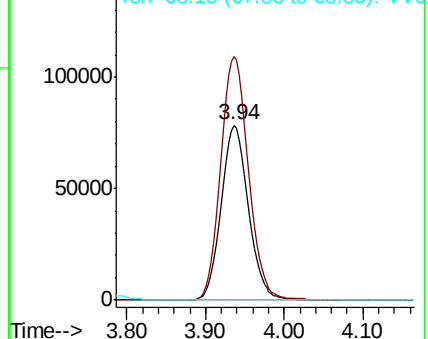
96 100

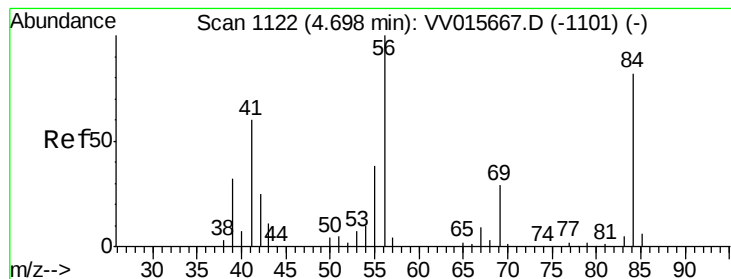
61 139.3 96.4 179.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0





#30

Cyclohexane

Concen: 4.704 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

Instrument :

MSVOA_V

ClientSampleId :

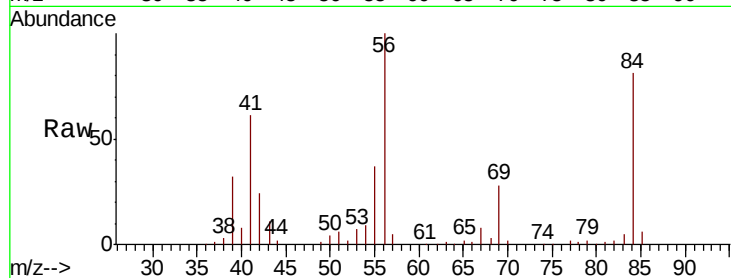
Tot Ion: 56 Resp: 68146

Ion Ratio Lower Upper

56 100

69 29.6 23.9 35.9

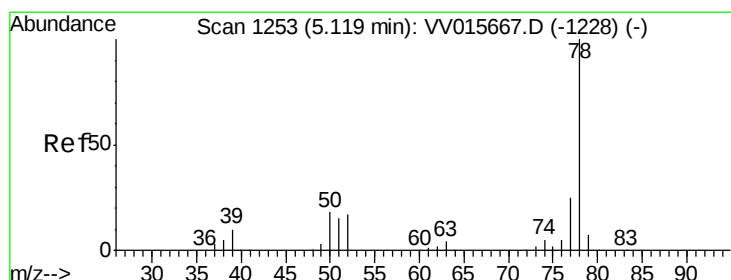
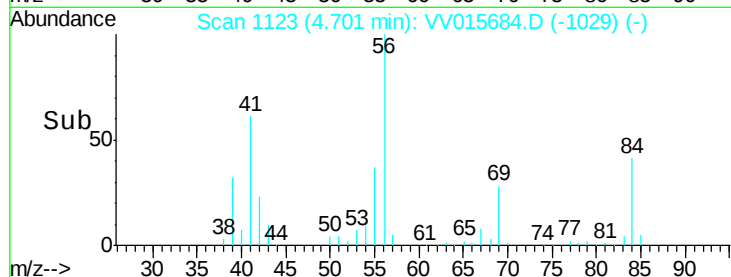
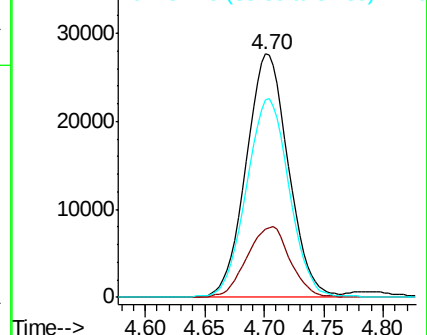
84 82.5 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0



#33

Benzene

Concen: 5.882 ug/L

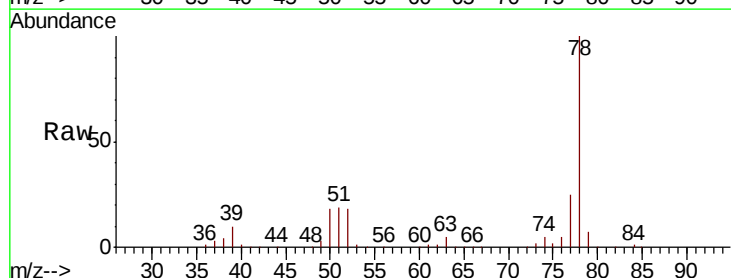
RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

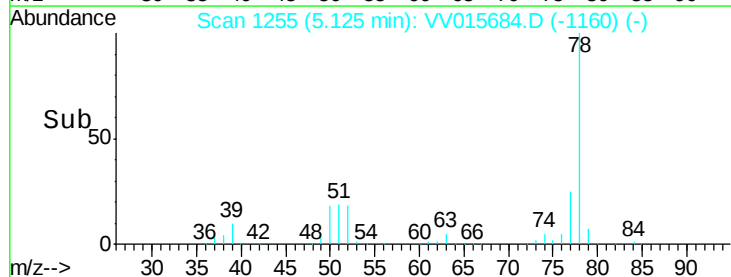
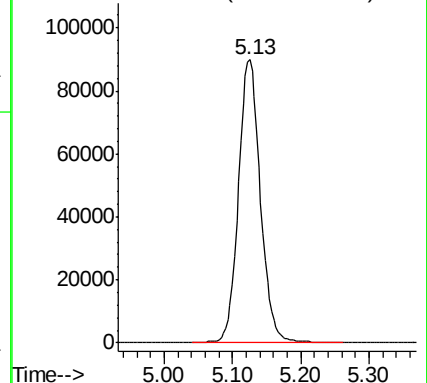
Lab File: VV015684.D

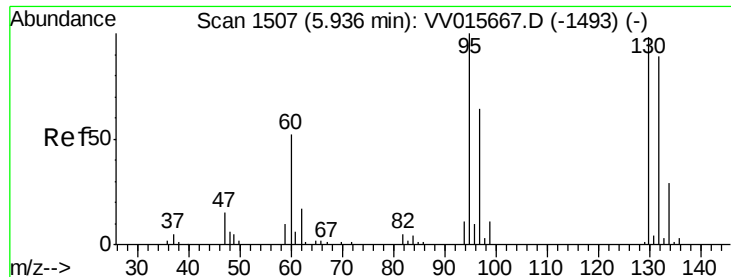
Acq: 24 Apr 2020 19:14

Tgt Ion: 78 Resp: 200923



Abundance Ion 78.10 (77.80 to 78.80): VV0

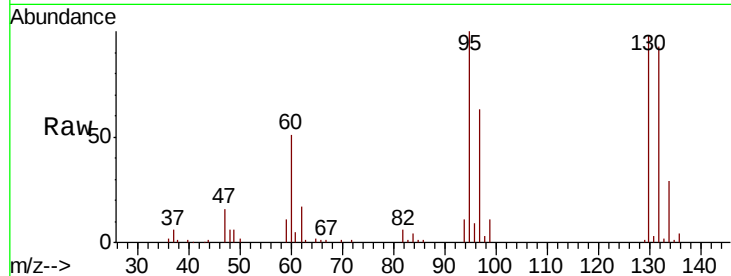




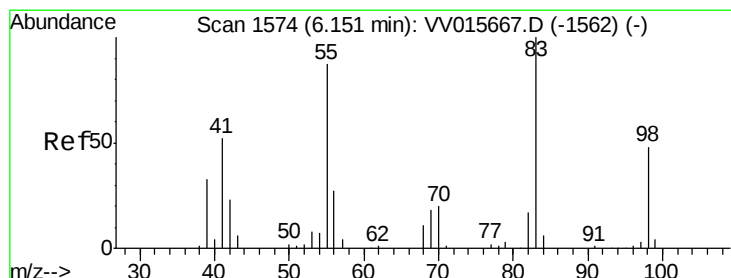
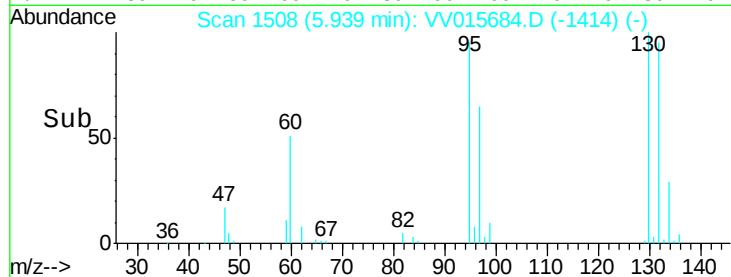
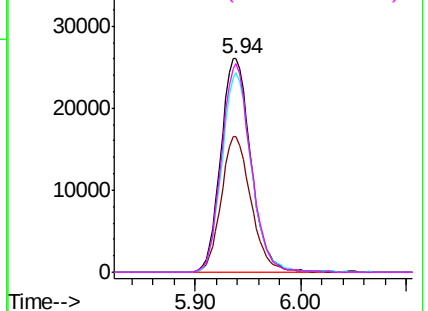
#34
 Trichloroethene
 Concen: 5.463 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV015684.D
 Acq: 24 Apr 2020 19:14

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 51535
 Ion Ratio Lower Upper
 95 100
 97 63.4 44.7 82.9
 132 93.3 65.2 121.0
 130 97.9 65.0 120.6

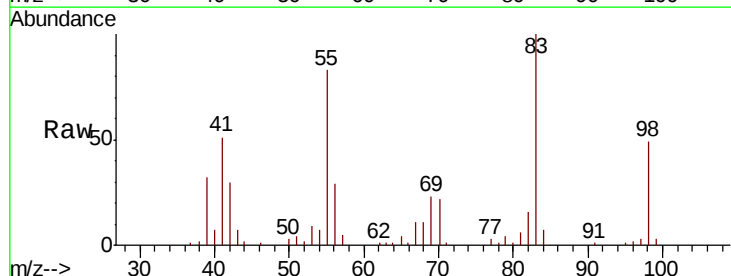


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

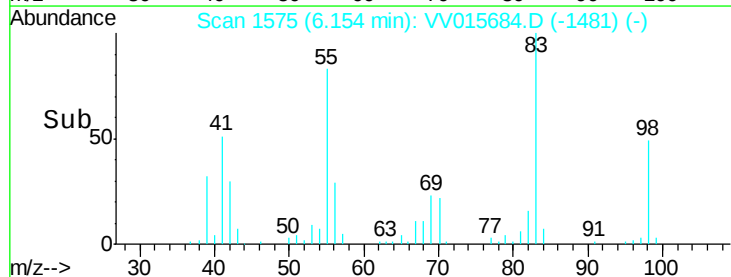
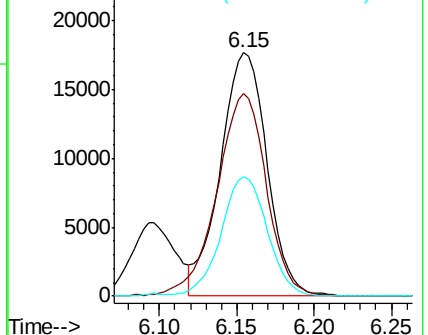


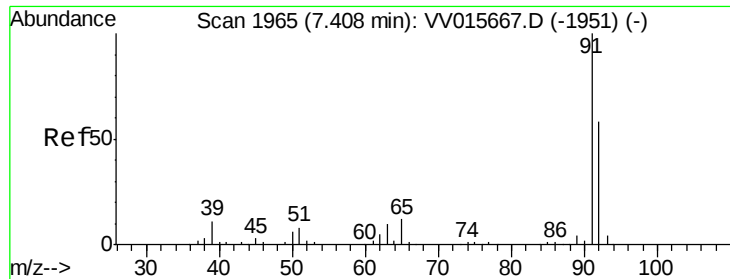
#35
 Methylcyclohexane
 Concen: 2.556 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV015684.D
 Acq: 24 Apr 2020 19:14

Tgt Ion: 83 Resp: 37010
 Ion Ratio Lower Upper
 83 100
 55 88.3 66.6 99.8
 98 48.7 39.5 59.3



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0





#42

Toluene

Concen: 5.574 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

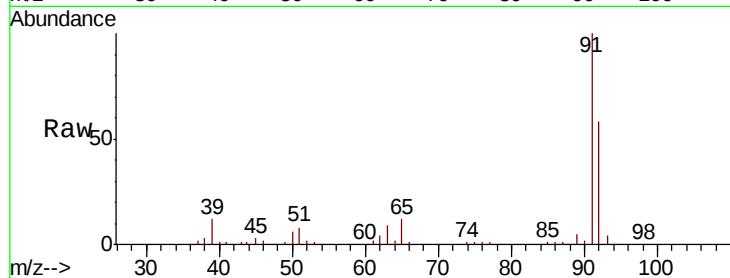
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 203462

Ion Ratio Lower Upper

91 100

92 58.3 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV015667.D (-1951) (-)

Ion 92.15 (91.85 to 92.85): VV015667.D (-1951) (-)

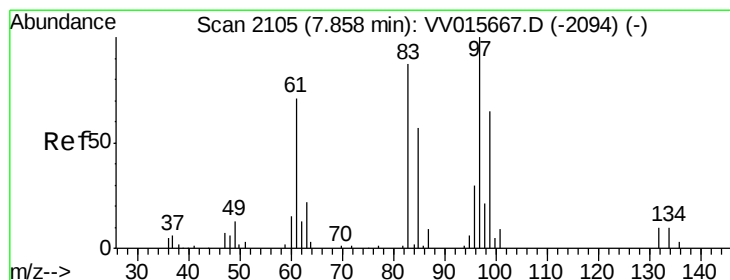
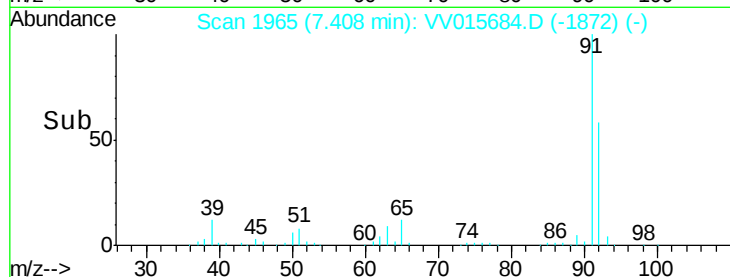
7.41

100000

50000

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.211 ug/L

RT: 7.81 min Scan# 2090

Delta R.T. -0.05 min

Lab File: VV015684.D

Acq: 24 Apr 2020 19:14

Tgt Ion: 97 Resp: 1247

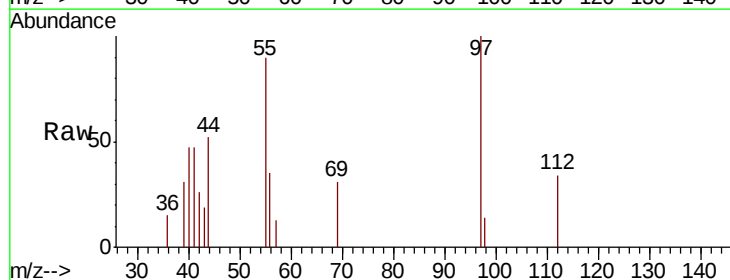
Ion Ratio Lower Upper

97 100

99 0.0 45.4 84.4#

83 0.0 61.3 113.9#

85 0.0 38.4 71.4#



Abundance Ion 96.95 (96.65 to 97.65): VV015667.D (-2094) (-)

Ion 99.05 (98.75 to 99.75): VV015667.D (-2094) (-)

Ion 82.95 (82.65 to 83.65): VV015667.D (-2094) (-)

Ion 85.00 (84.70 to 85.70): VV015667.D (-2094) (-)

7.81

1200

1000

800

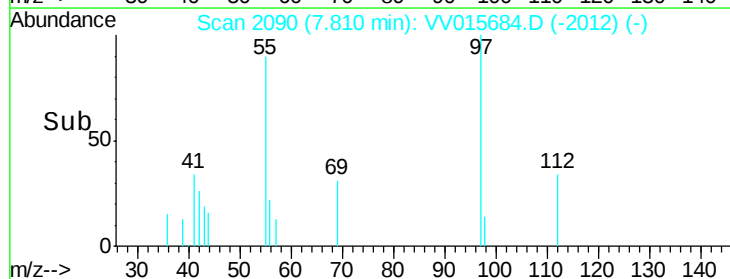
600

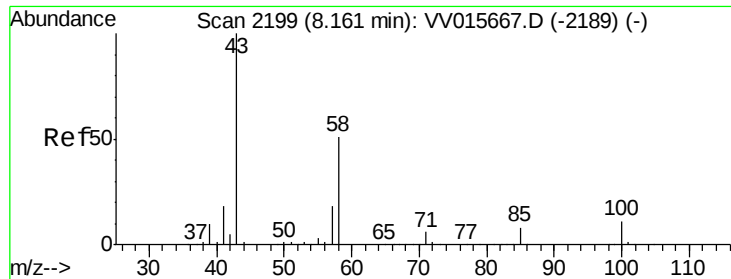
400

200

0

Time-->

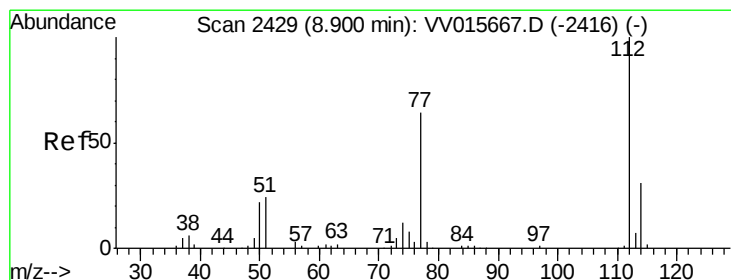
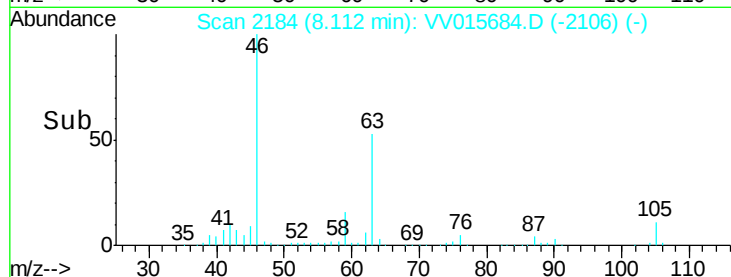
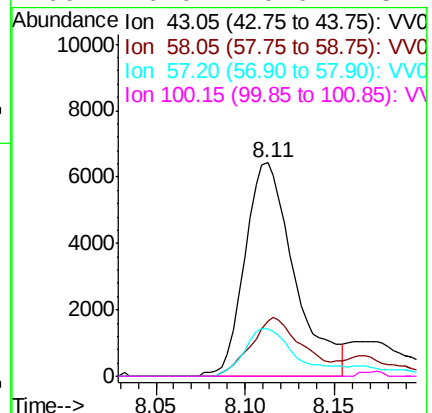
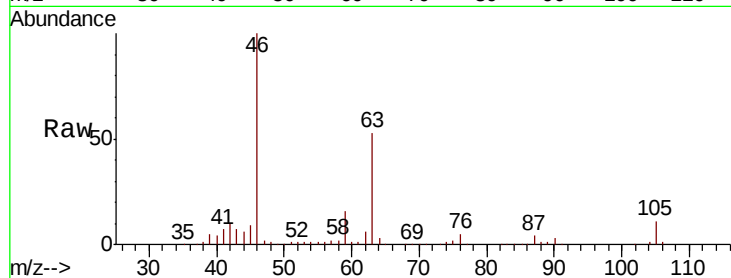




#48
2-Hexanone
Concen: 3.111 ug/L
RT: 8.11 min Scan# 2184
Delta R.T. -0.05 min
Lab File: VV015684.D
Acq: 24 Apr 2020 19:14

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 12501
Ion Ratio Lower Upper
43 100
58 28.4 41.1 61.7#
57 23.7 15.0 22.4#
100 0.0 9.0 13.4#



#51
Chlorobenzene
Concen: 5.430 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV015684.D
Acq: 24 Apr 2020 19:14

Tgt Ion: 112 Resp: 129833
Ion Ratio Lower Upper
112 100
114 31.7 21.6 40.2
77 62.7 48.9 73.3

