

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072020\
 Data File : VV017556.D
 Acq On : 20 Jul 2020 19:42
 Operator : SY/MD
 Sample : L3336-16MS
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-2MS

Quant Time: Jul 21 01:48:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM072020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 20 18:07:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	254610	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	311482	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	157709	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	75646	53.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	106.52%
7) Chloroethane-d5	1.58	69	56174	48.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.12%
11) 1,1-Dichloroethene-d2	2.13	63	387685	112.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	224.48%#
21) 2-Butanone-d5	3.91	46	101600	98.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.46%
24) Chloroform-d	4.38	84	157421	48.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.76%
26) 1,2-Dichloroethane-d4	5.06	65	117213	52.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.58%
32) Benzene-d6	5.08	84	270907	39.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.88%
36) 1,2-Dichloropropane-d6	6.09	67	80892	39.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	79.84%
41) Toluene-d8	7.34	98	329824	50.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.32%
43) trans-1,3-Dichloropropene-	7.64	79	60754	48.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.46%
47) 2-Hexanone-d5	8.11	63	108594	114.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	114.12%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	166380	56.88	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	113.76%
64) 1,2-Dichlorobenzene-d4	11.65	152	145635	51.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	47616	23.342	ug/L	98
8) Chloroethane	1.60	64	1661	1.430	ug/L	98
9) Trichlorofluoromethane	2.13	101	20493	5.765	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	22360	11.781	ug/L	95
12) 1,1-Dichloroethene	2.13	96	476960	280.812	ug/L #	73
13) Acetone	2.20	43	4344	3.451	ug/L	79
16) Methylene chloride	2.52	84	1948	1.023	ug/L	82
17) trans-1,2-Dichloroethene	2.78	96	12753	7.760	ug/L	92
19) 1,1-Dichloroethane	3.21	63	4521887	1472.968	ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	450661	249.938	ug/L	96
27) 1,2-Dichloroethane	5.16	62	74636	25.249	ug/L	99
30) 1,1,1-Trichloroethane	4.64	97	38935	9.352	ug/L	99
31) Carbon tetrachloride	4.63	117	4722	1.238	ug/L	98
33) Benzene	5.13	78	361520	44.931	ug/L	100
34) Trichloroethene	5.94	95	684315	308.575	ug/L	97
39) cis-1,3-Dichloropropene	7.01	75	4185	1.212	ug/L	84
42) Toluene	7.41	91	458398	51.562	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Mon Jul 20 18:07:44 2020
Response via : Initial Calibration

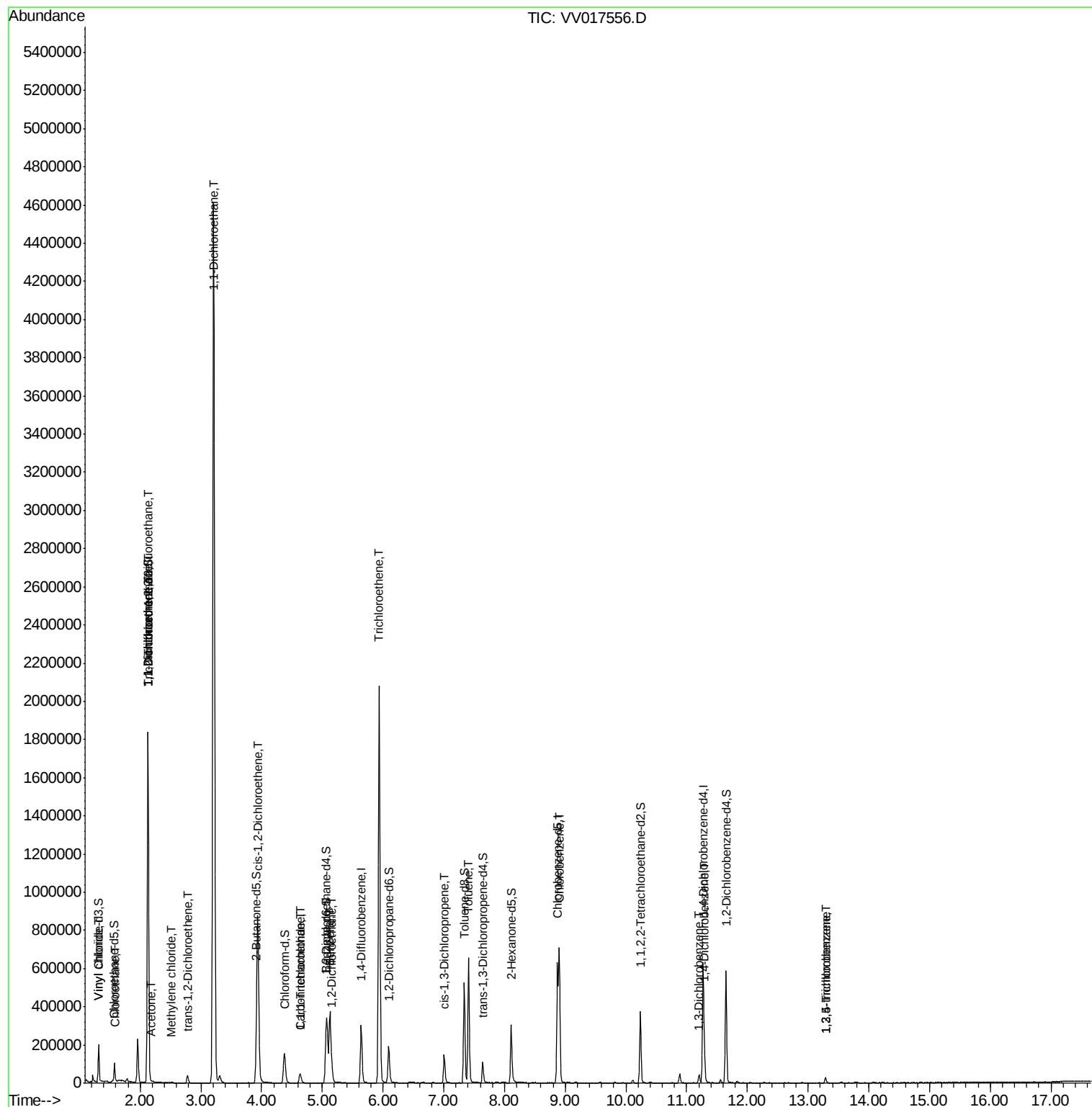
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.90	112	356829	57.020	ug/L	99
62) 1,3-Dichlorobenzene	11.21	146	17621	3.573	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	53797	10.473	ug/L	98
67) 1,3,5-Trichlorobenzene	13.29	180	8181	2.074	ug/L	97
68) 1,2,4-trichlorobenzene	13.29	180	8181	2.308	ug/L	97

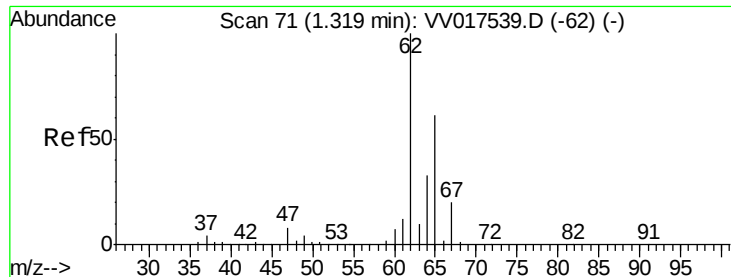
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 23.342 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampleId :

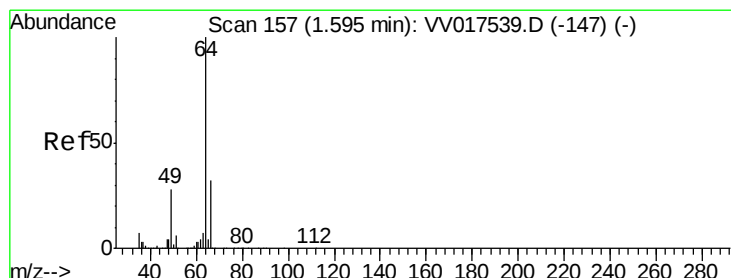
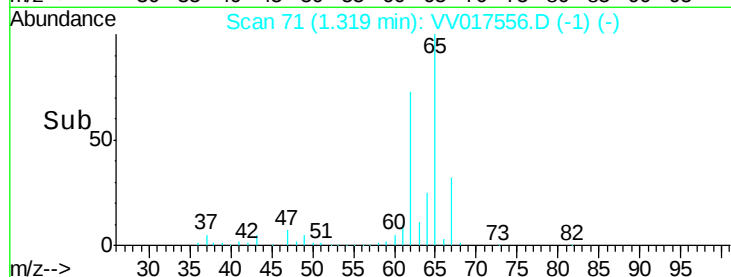
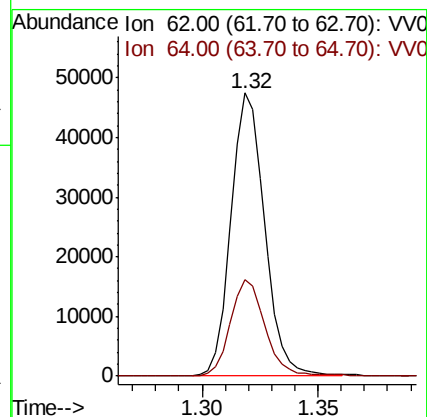
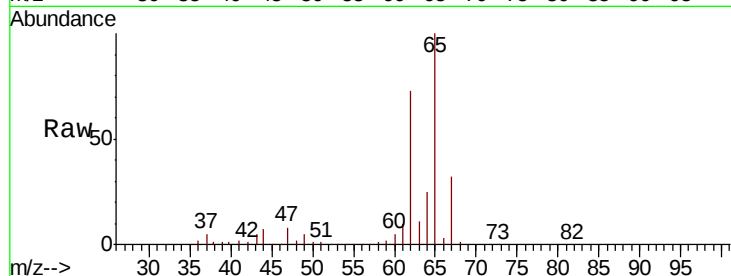
PMW-2MS

Tot Ion: 62 Resp: 47616

Ion Ratio Lower Upper

62 100

64 34.1 23.0 42.8



#8

Chloroethane

Concen: 1.430 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV017556.D

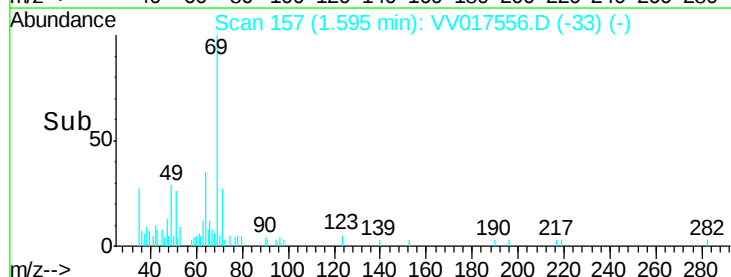
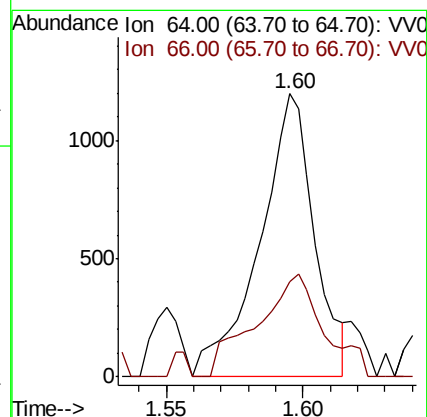
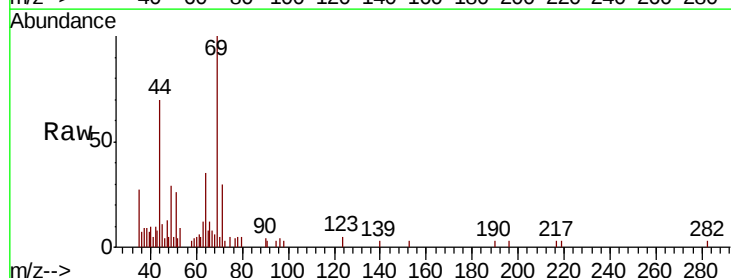
Acq: 20 Jul 2020 19:42

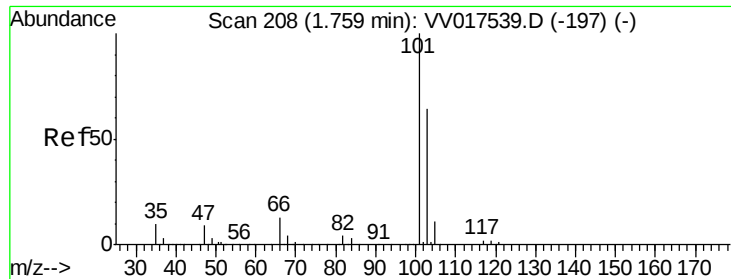
Tgt Ion: 64 Resp: 1661

Ion Ratio Lower Upper

64 100

66 33.8 22.8 42.4



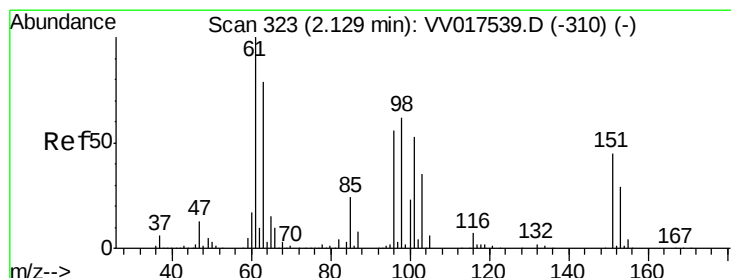
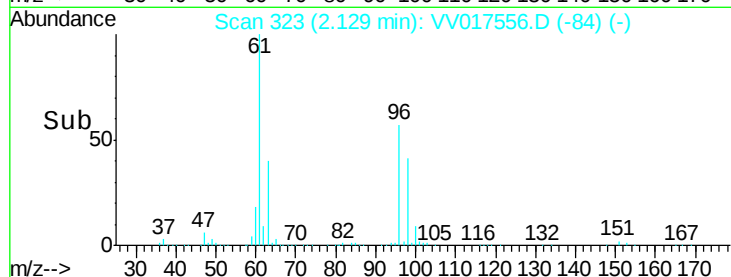
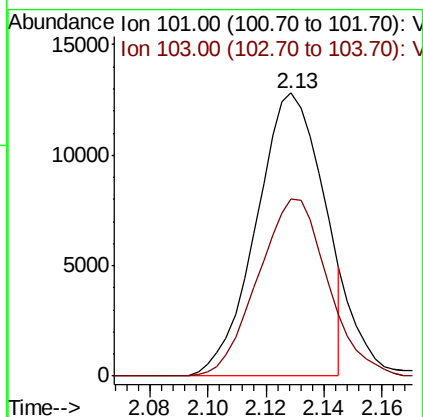
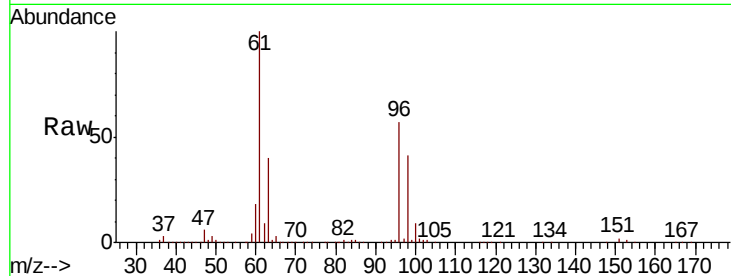


#9

Trichlorofluoromethane
 Concen: 5.765 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. 0.37 min
 Lab File: VV017556.D
 Acq: 20 Jul 2020 19:42

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-2MS

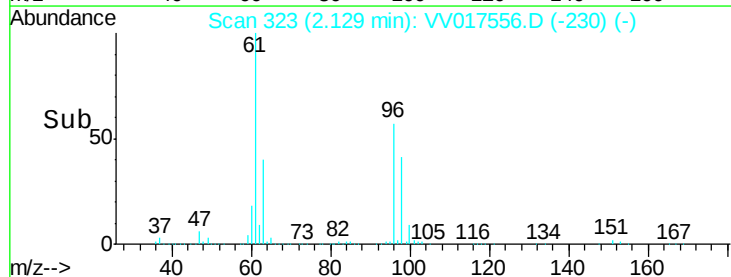
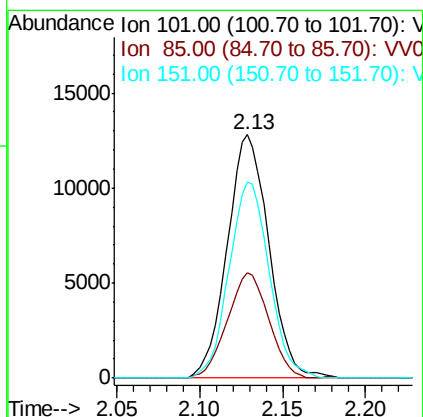
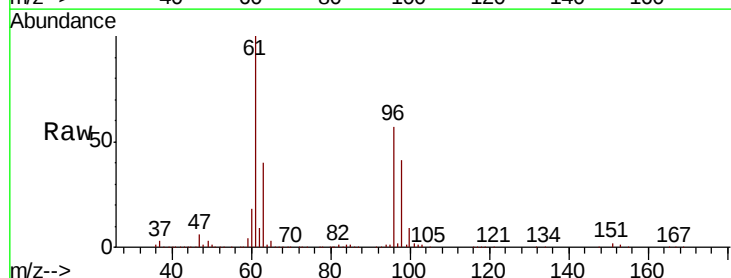
Tot Ion:101 Resp: 20493
 Ion Ratio Lower Upper
 101 100
 103 61.2 51.2 76.8

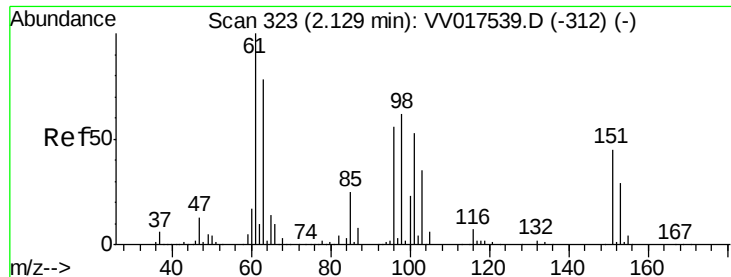


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 11.781 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. -0.00 min
 Lab File: VV017556.D
 Acq: 20 Jul 2020 19:42

Tgt Ion:101 Resp: 22360
 Ion Ratio Lower Upper
 101 100
 85 43.0 36.2 54.4
 151 77.6 65.9 98.9





#12

1,1-Dichloroethene

Concen: 280.812 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampleId :

PMW-2MS

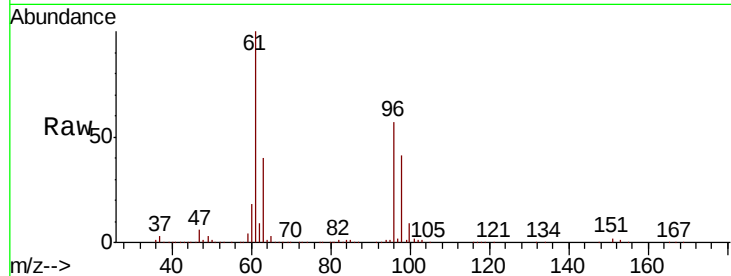
Tot Ion: 96 Resp: 476960

Ion Ratio Lower Upper

96 100

61 176.5 126.0 234.0

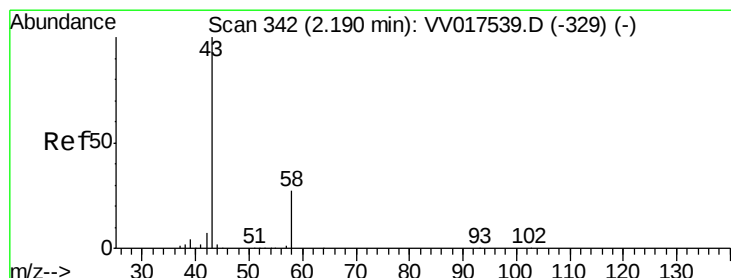
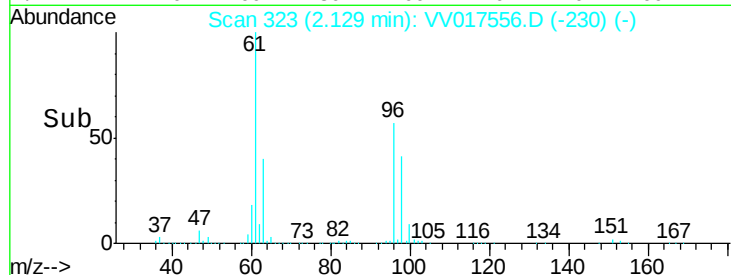
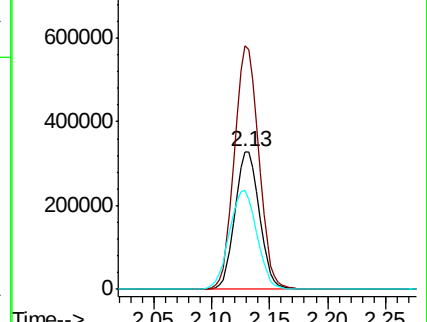
63 71.5 99.8 185.4#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0



#13

Acetone

Concen: 3.451 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV017556.D

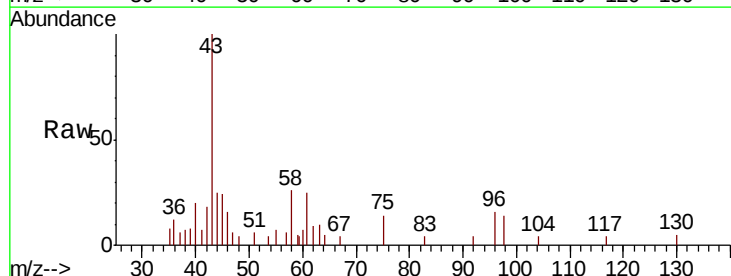
Acq: 20 Jul 2020 19:42

Tgt Ion: 43 Resp: 4344

Ion Ratio Lower Upper

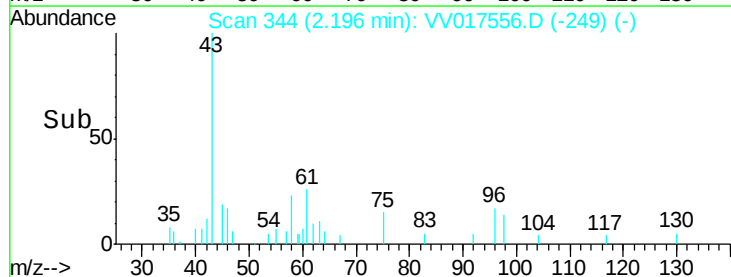
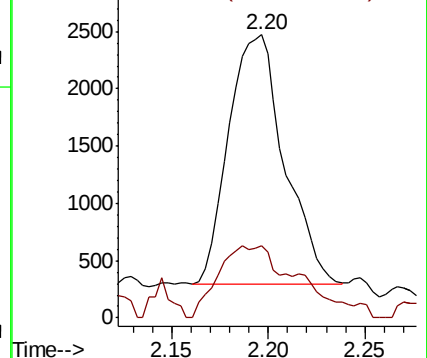
43 100

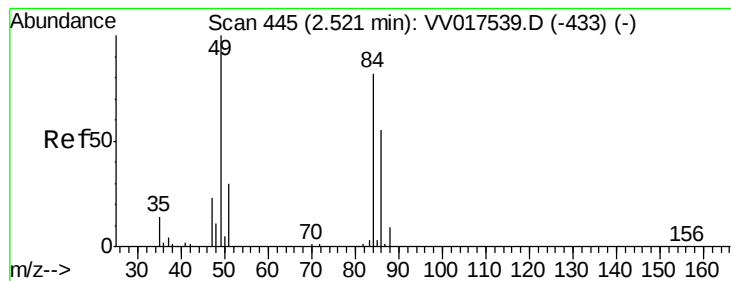
58 17.0 0.0 56.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#16

Methvlene chloride

Concen: 1.023 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampled :

PMW-2MS

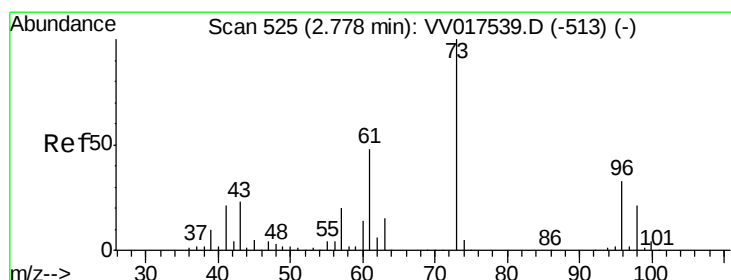
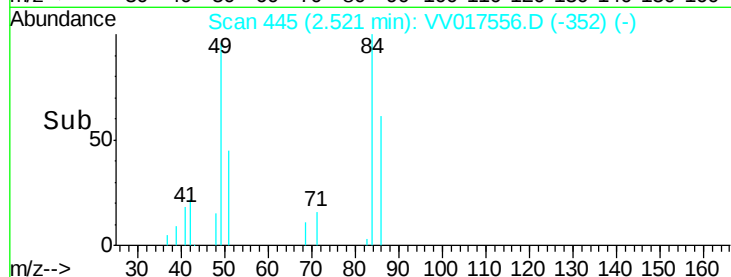
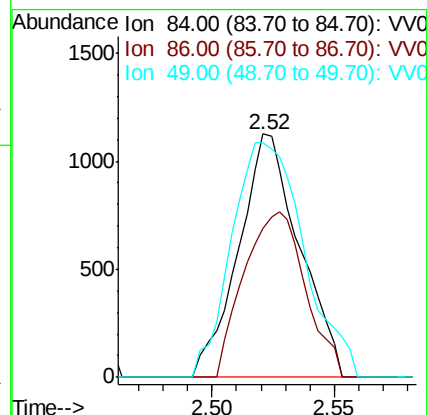
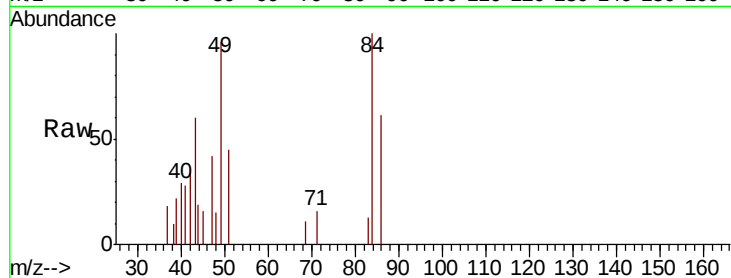
Tot Ion: 84 Resp: 1948

Ion Ratio Lower Upper

84 100

86 61.0 47.1 87.5

49 96.3 85.8 159.4



#17

trans-1,2-Dichloroethene

Concen: 7.760 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

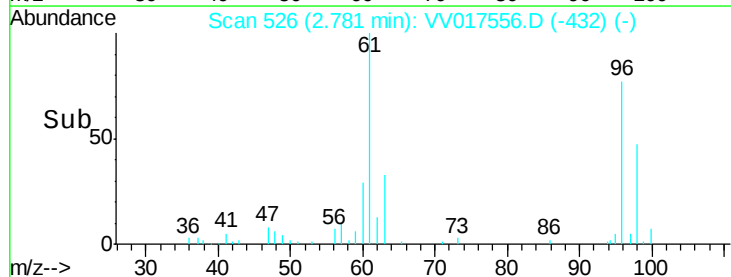
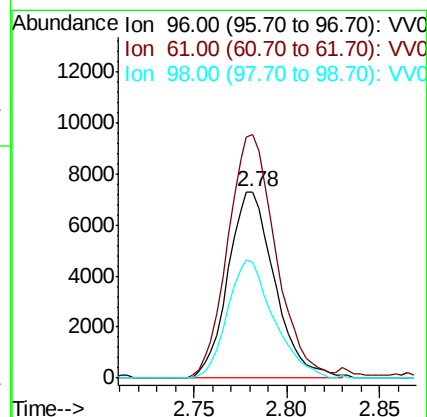
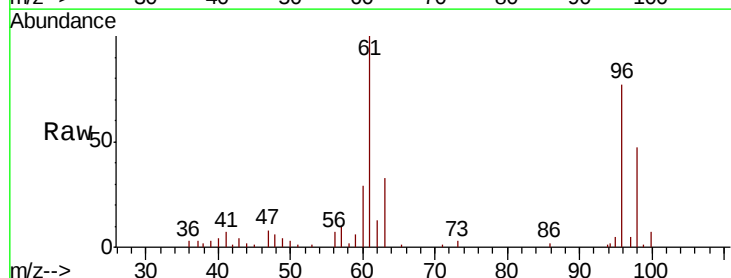
Tgt Ion: 96 Resp: 12753

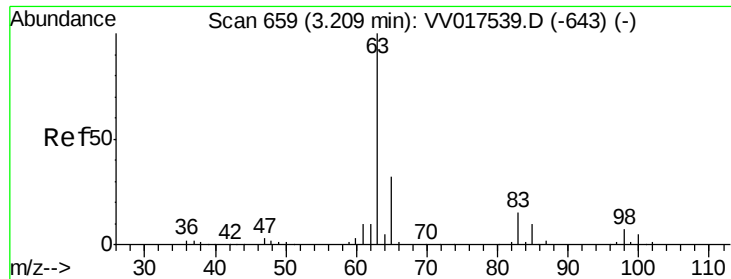
Ion Ratio Lower Upper

96 100

61 130.6 100.4 186.6

98 61.7 44.8 83.2





#19

1,1-Dichloroethane

Concen: 1472.968 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampled :

PMW-2MS

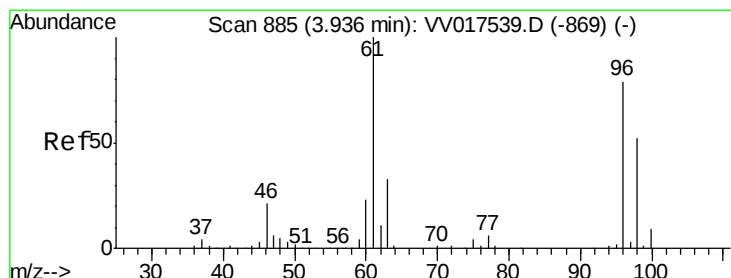
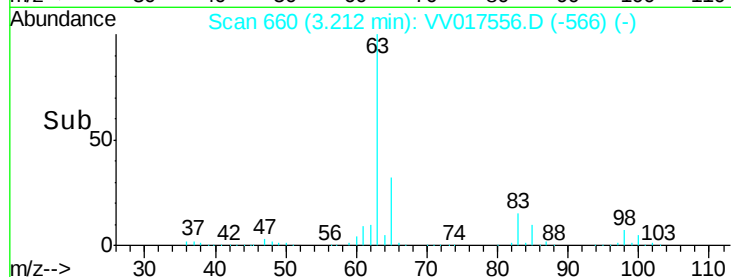
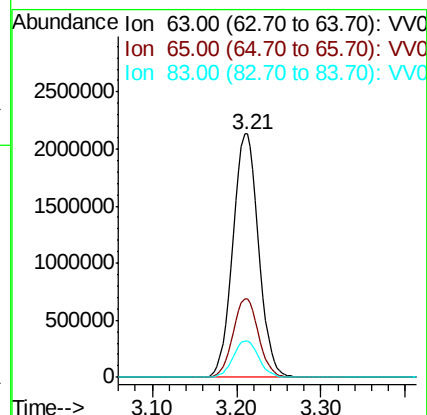
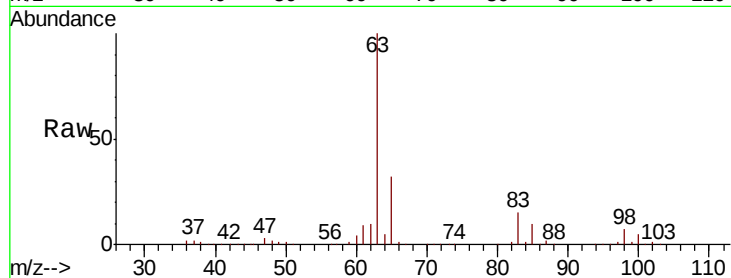
Tot Ion: 63 Resp: 4521887

Ion Ratio Lower Upper

63 100

65 32.2 22.0 41.0

83 15.0 10.1 18.9



#20

cis-1,2-Dichloroethene

Concen: 249.938 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

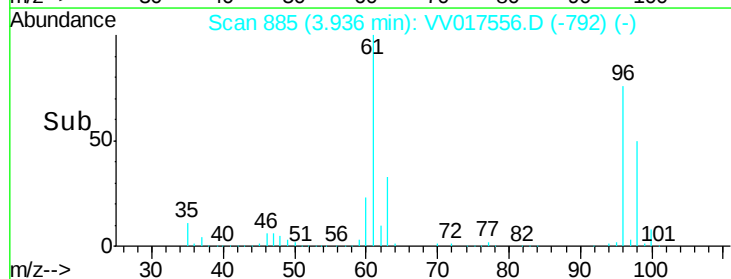
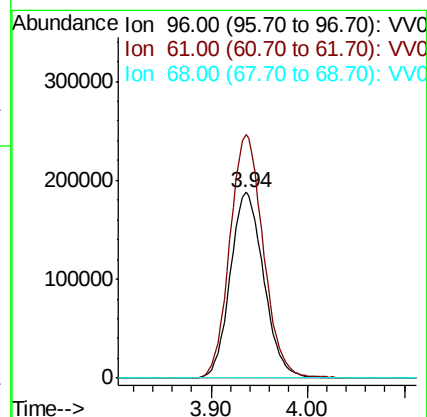
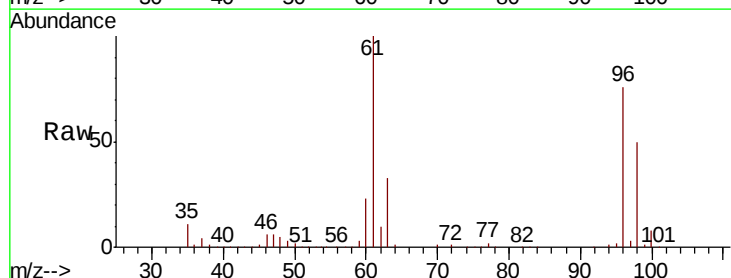
Tgt Ion: 96 Resp: 450661

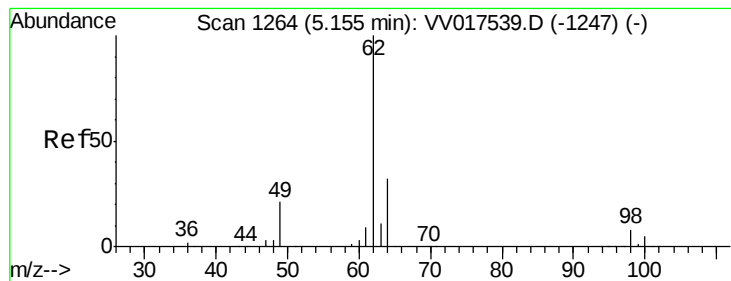
Ion Ratio Lower Upper

96 100

61 131.2 88.5 164.4

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 25.249 ug/L

RT: 5.16 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampleId :

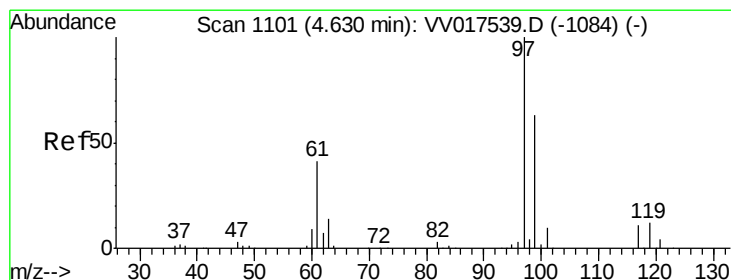
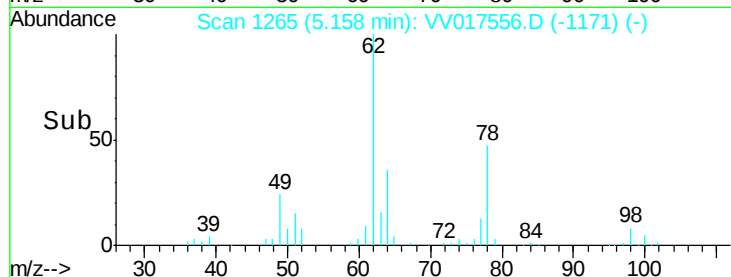
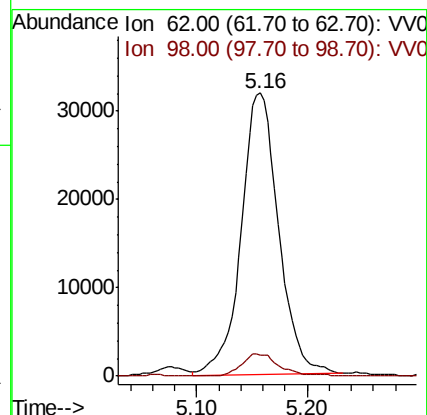
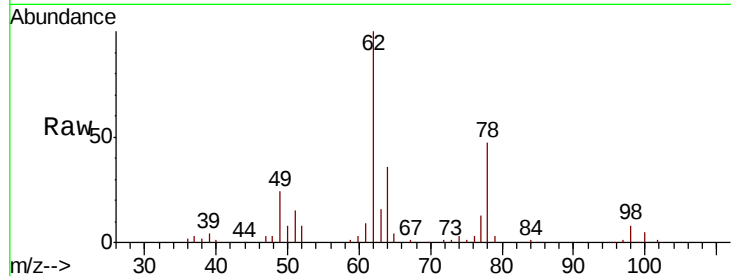
PMW-2MS

Tot Ion: 62 Resp: 74636

Ion Ratio Lower Upper

62 100

98 7.6 6.2 9.4



#30

1,1,1-Trichloroethane

Concen: 9.352 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

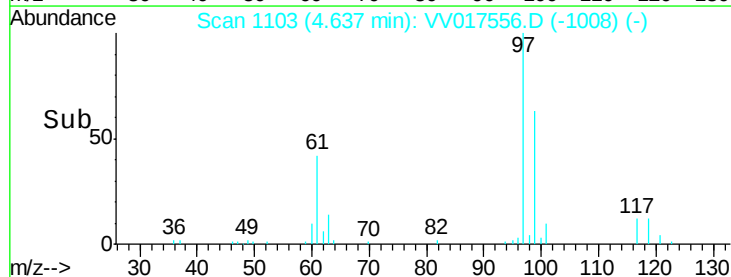
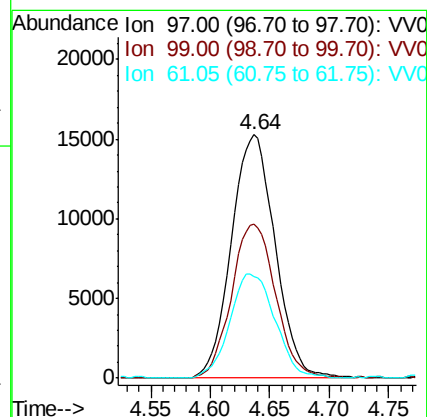
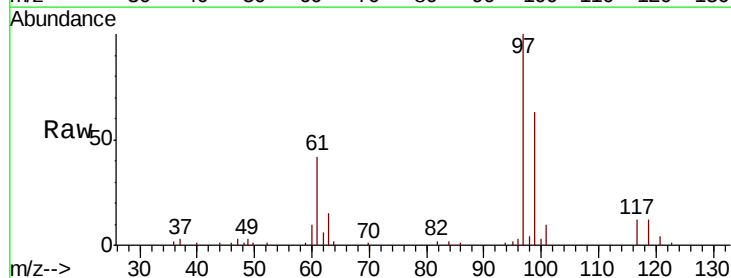
Tgt Ion: 97 Resp: 38935

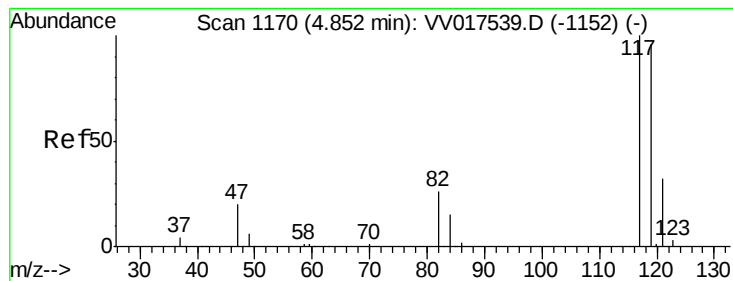
Ion Ratio Lower Upper

97 100

99 63.6 50.5 75.7

61 44.3 34.1 51.1





#31

Carbon tetrachloride

Concen: 1.238 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.22 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampleId :

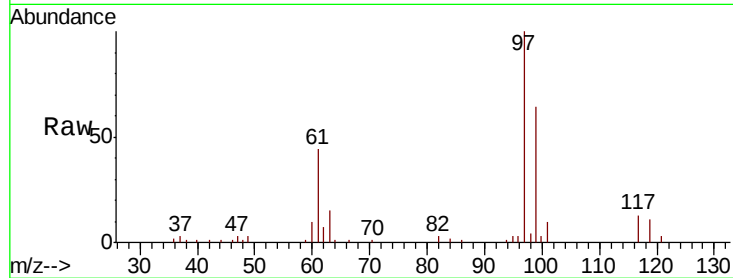
PMW-2MS

Tot Ion:117 Resp: 4722

Ion Ratio Lower Upper

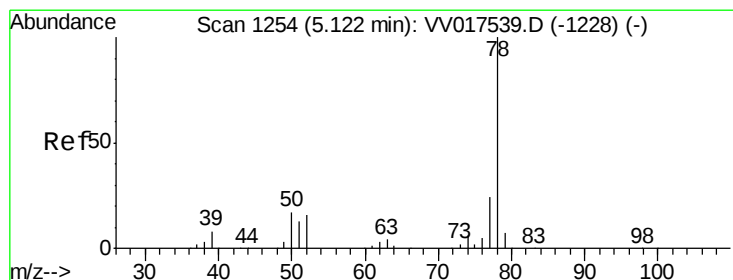
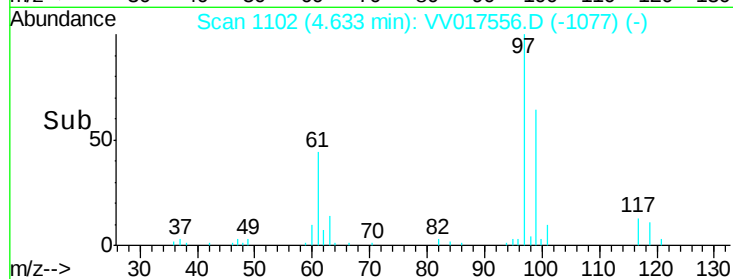
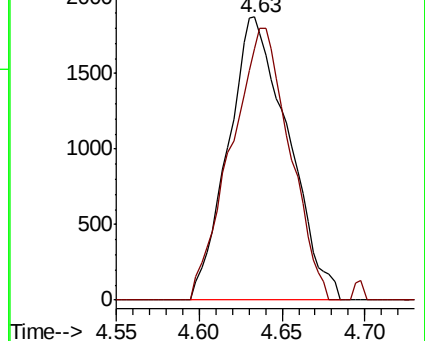
117 100

119 93.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 44.931 ug/L

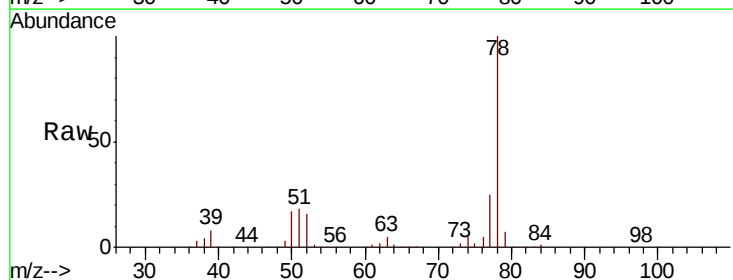
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

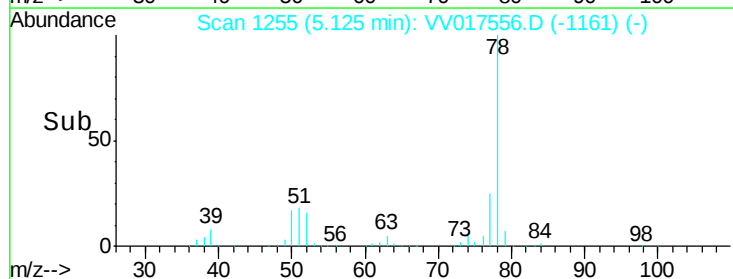
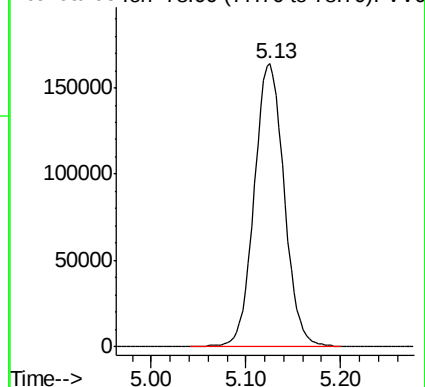
Lab File: VV017556.D

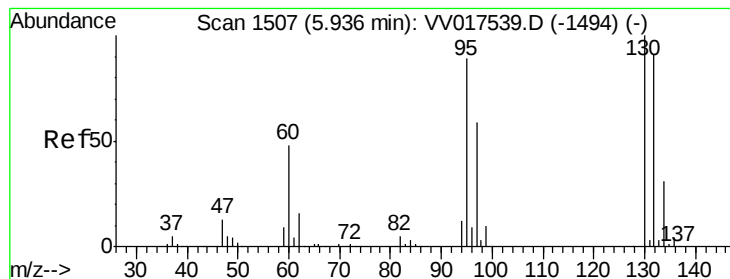
Acq: 20 Jul 2020 19:42

Tgt Ion: 78 Resp: 361520



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 308.575 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampleID :

PMW-2MS

Tot Ion: 95 Resp: 684315

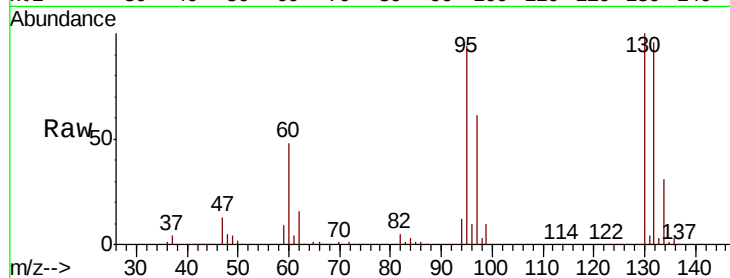
Ion Ratio Lower Upper

95 100

97 64.6 46.1 85.5

132 101.4 71.3 132.3

130 106.2 78.3 145.3



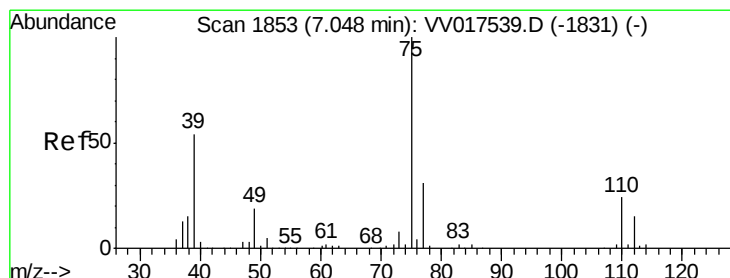
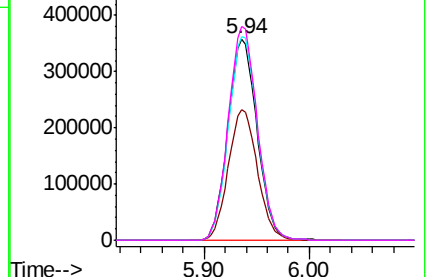
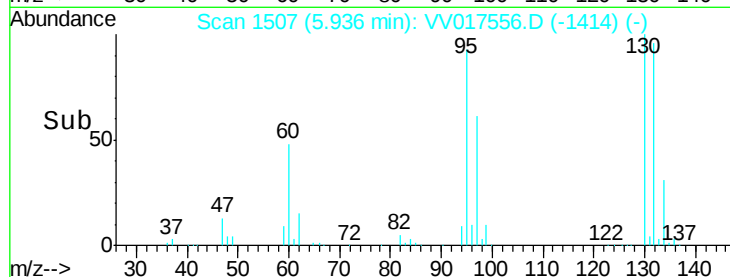
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Time-->



#39

cis-1,3-Dichloropropene

Concen: 1.212 ug/L

RT: 7.01 min Scan# 1842

Delta R.T. -0.04 min

Lab File: VV017556.D

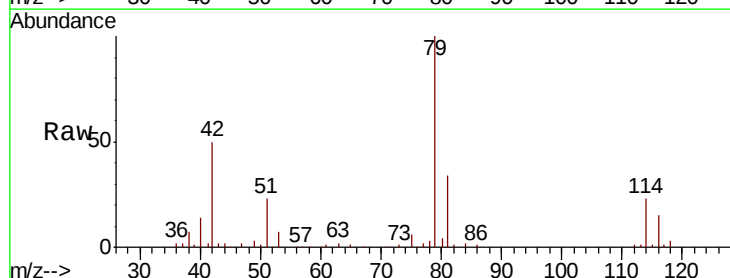
Acq: 20 Jul 2020 19:42

Tgt Ion: 75 Resp: 4185

Ion Ratio Lower Upper

75 100

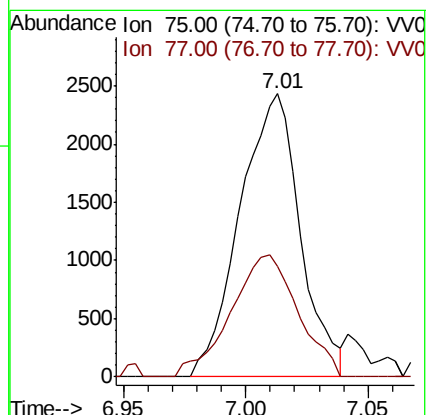
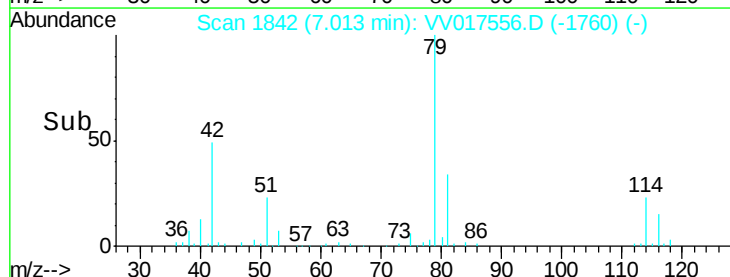
77 39.2 21.4 39.8

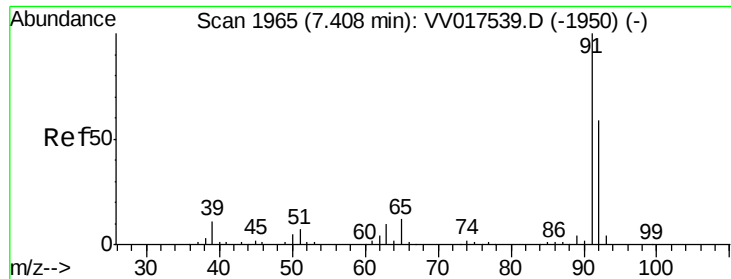


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Time-->





#42

Toluene

Concen: 51.562 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

Instrument :

MSVOA_V

ClientSampleId :

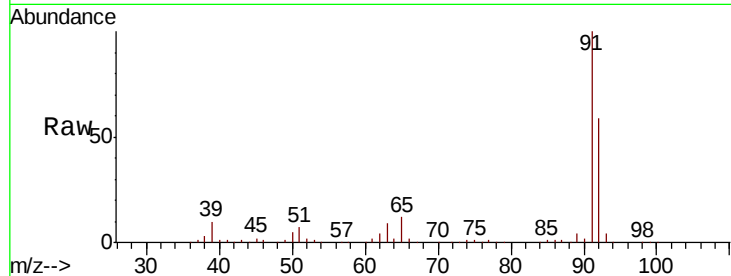
PMW-2MS

Tot Ion: 91 Resp: 458398

Ion Ratio Lower Upper

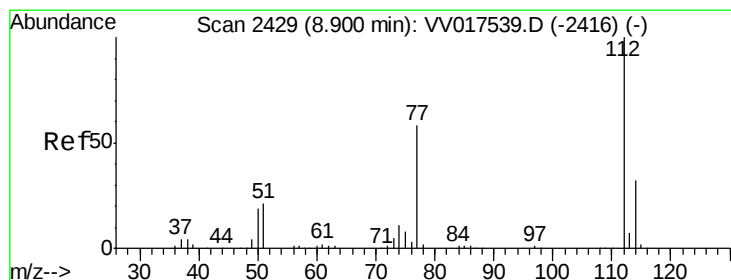
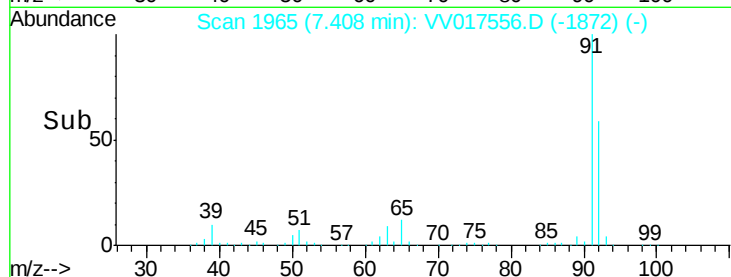
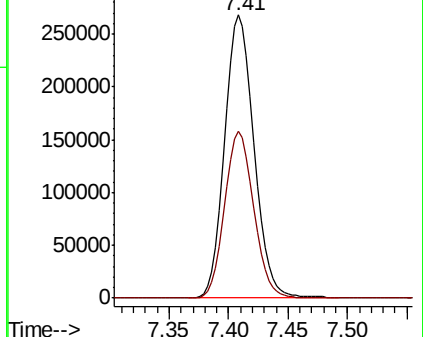
91 100

92 59.0 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV017539.D (-1950) (-)

Ion 92.00 (91.70 to 92.70): VV017539.D (-1950) (-)



#51

Chlorobenzene

Concen: 57.020 ug/L

RT: 8.90 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VV017556.D

Acq: 20 Jul 2020 19:42

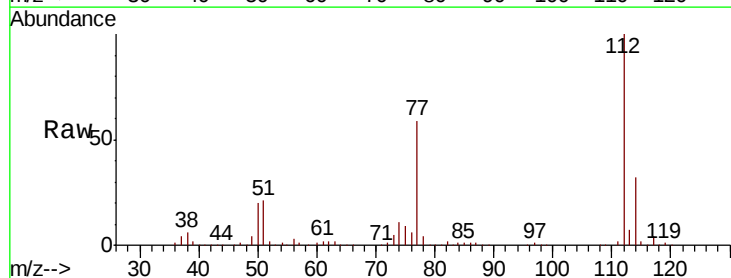
Tgt Ion: 112 Resp: 356829

Ion Ratio Lower Upper

112 100

114 32.1 22.7 42.1

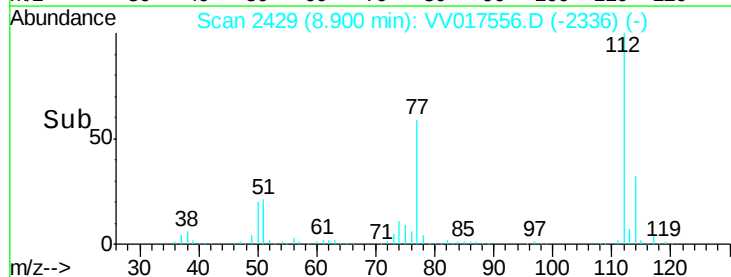
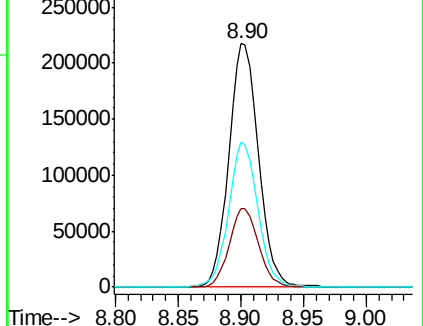
77 59.3 46.9 70.3

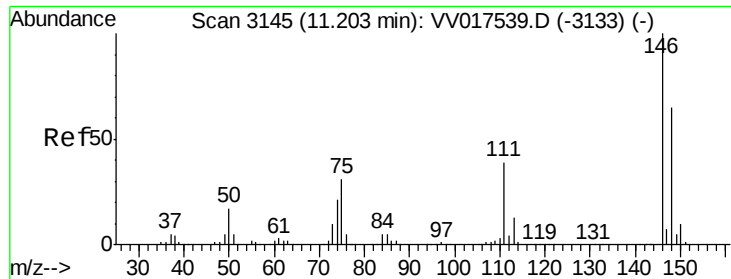


Abundance Ion 112.00 (111.70 to 112.70): VV017539.D (-2416) (-)

Ion 114.00 (113.70 to 114.70): VV017539.D (-2416) (-)

Ion 77.00 (76.70 to 77.70): VV017539.D (-2416) (-)

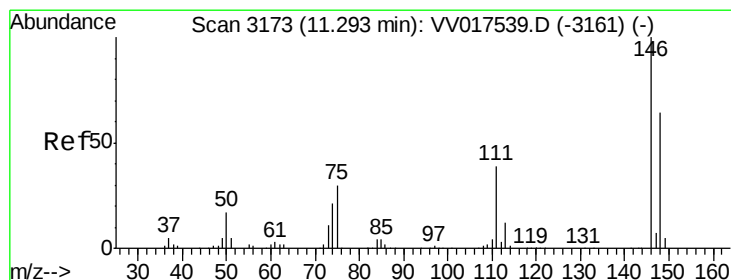
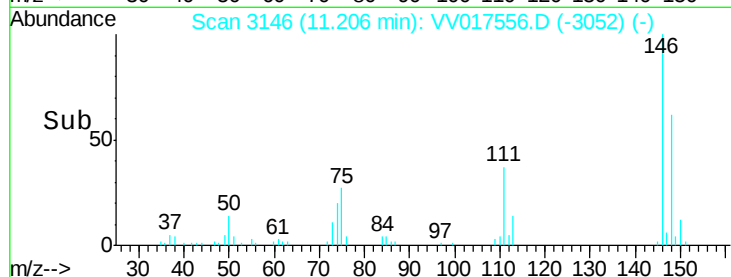
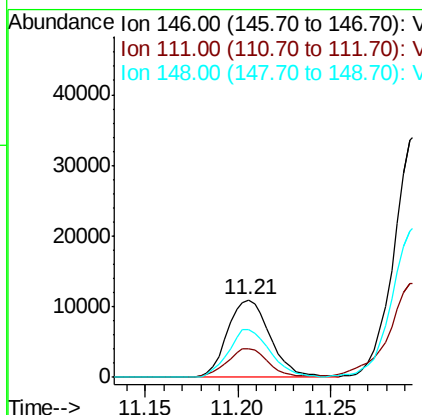
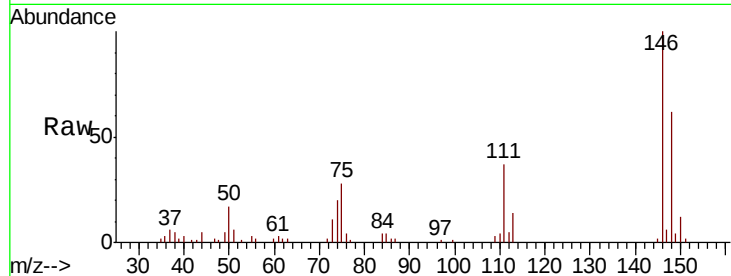




#62
 1,3-Dichlorobenzene
 Concen: 3.573 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017556.D
 Acq: 20 Jul 2020 19:42

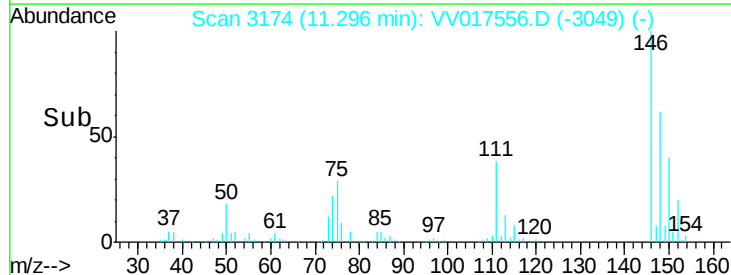
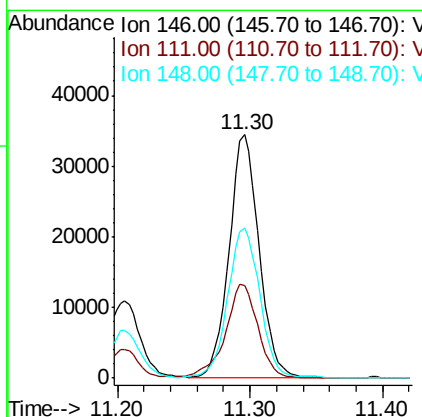
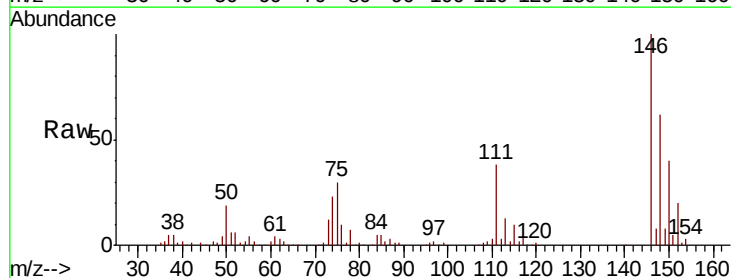
Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-2MS

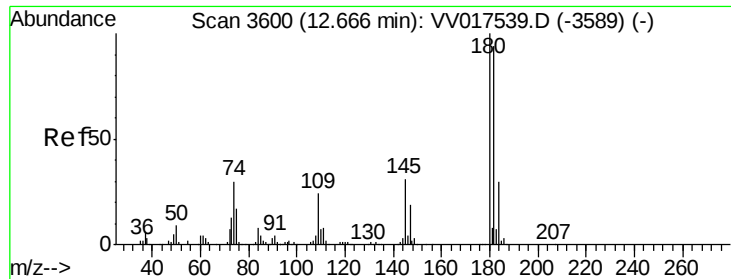
Tot Ion:146 Resp: 17621
 Ion Ratio Lower Upper
 146 100
 111 37.4 27.6 51.2
 148 62.3 45.8 85.0



#63
 1,4-Dichlorobenzene
 Concen: 10.473 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV017556.D
 Acq: 20 Jul 2020 19:42

Tgt Ion:146 Resp: 53797
 Ion Ratio Lower Upper
 146 100
 111 38.1 27.2 50.4
 148 61.7 44.7 82.9

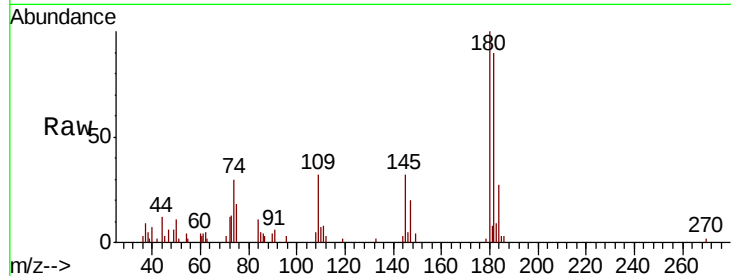




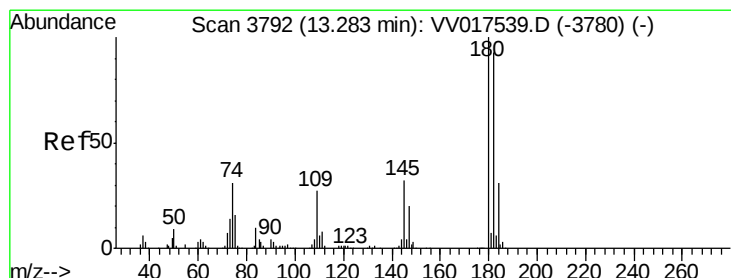
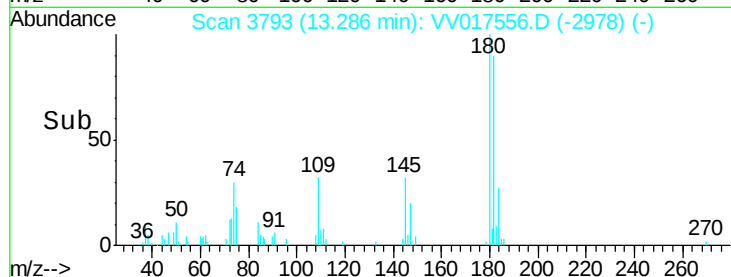
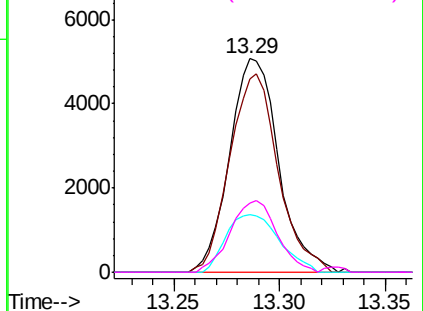
#67
 1,3,5-Trichlorobenzene
 Concen: 2.074 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.62 min
 Lab File: VV017556.D
 Acq: 20 Jul 2020 19:42

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-2MS

Tot Ion:180 Resp: 8181
 Ion Ratio Lower Upper
 180 100
 182 91.6 76.0 114.0
 184 29.4 24.4 36.6
 145 32.0 24.2 36.4

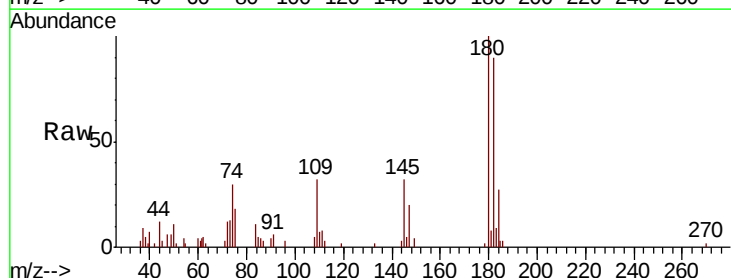


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 2.308 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV017556.D
 Acq: 20 Jul 2020 19:42

Tgt Ion:180 Resp: 8181
 Ion Ratio Lower Upper
 180 100
 182 91.6 76.0 114.0
 145 32.0 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

