

Data File : VV013421.D
Acq On : 30 Oct 2019 02:17
Operator : SY/MD
Sample : K5597-04 100X
Misc : 25.0ML/MSVOA_V/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
GAQD5

Quant Time: Oct 30 05:46:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR102919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 30 02:50:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	385049	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	392186	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	233916	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	146789	3.99	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.80%
7) Chloroethane-d5	1.58	69	127559	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.13	63	188971	3.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.40%
20) 2-Butanone-d5	3.96	46	402707	48.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.68%
24) Chloroform-d	4.40	84	311737	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
26) 1,2-Dichloroethane-d4	5.08	65	159227	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
32) Benzene-d6	5.10	84	641615	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.12	67	202126	4.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.00%
41) Toluene-d8	7.36	98	589860	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
43) trans-1,3-Dichloropropene-	7.66	79	73829	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
46) 2-Hexanone-d5	8.13	63	257710	50.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.88%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	142490	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	228798	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds

					Qvalue
8) Chloroethane	1.51	64	10504	0.435 ug/L #	53
14) Carbon disulfide	2.31	76	4045	0.045 ug/L #	54
15) Methyl Acetate	2.55	43	204698	13.436 ug/L #	55
16) Methylene chloride	2.53	84	6861	0.161 ug/L #	79
25) Chloroform	4.43	83	11517	0.151 ug/L	96
27) 1,2-Dichloroethane	5.09	62	3894	0.093 ug/L	99
30) Cyclohexane	4.72	56	221053	3.623 ug/L	97
33) Benzene	5.14	78	128650	0.878 ug/L	100
35) Methylcyclohexane	6.17	83	419945	6.998 ug/L	93
37) 1,2-Dichloropropane	6.12	63	23429	0.632 ug/L #	87
40) 4-Methyl-2-pentanone	7.30	43	21201	1.016 ug/L #	46
42) Toluene	7.43	91	10486	0.069 ug/L	86
44) trans-1,3-Dichloropropene	7.66	75	3189	0.081 ug/L #	73
45) 1,1,2-Trichloroethane	7.83	97	55683	2.258 ug/L #	21
47) Tetrachloroethene	8.02	164	19651	0.576 ug/L	97
48) 2-Hexanone	8.18	43	19889	1.348 ug/L #	40
49) Dibromochloromethane	8.02	129	15359	0.503 ug/L #	13

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV102919\
Quantitation Report (Not Reviewed)

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QLast Update : Wed Oct 30 02:50:47 2019
Response via : Initial Calibration

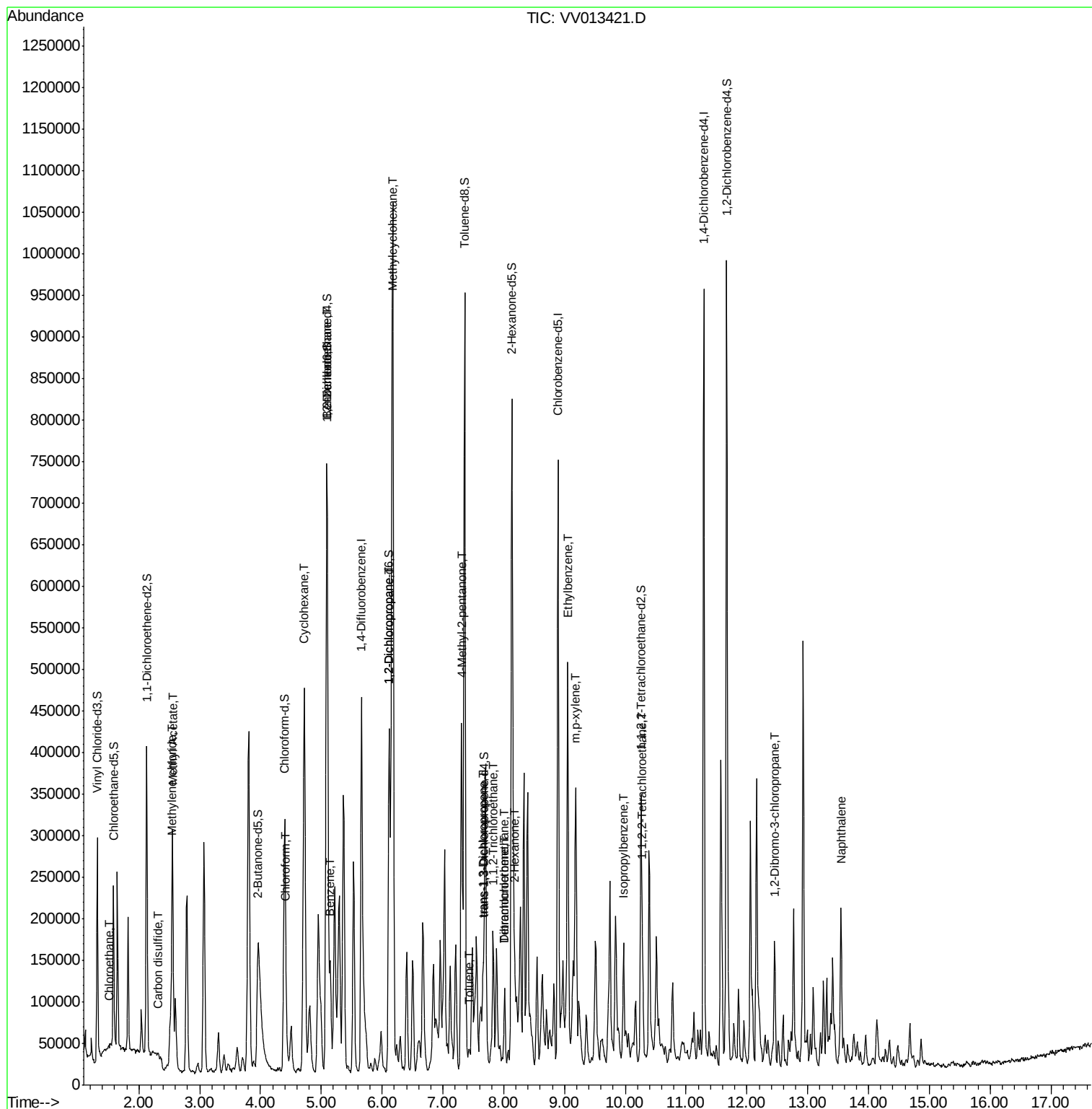
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.05	91	309487	1.910	ug/L	99
53) m,p-xylene	9.18	106	63232	1.057	ug/L	99
56) Isopropylbenzene	9.97	105	79546	0.510	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.28	83	8998	0.344	ug/L #	43
66) 1,2-Dibromo-3-chloropropan	12.46	75	1231	0.297	ug/L #	1
69) Naphthalene	13.55	128	141328	2.112	ug/L	97

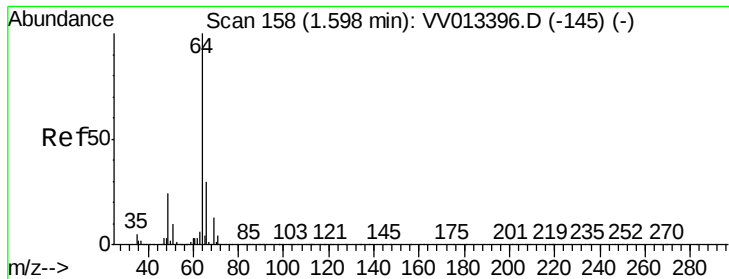
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.435 ug/L

RT: 1.51 min Scan# 129

Delta R.T. -0.09 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

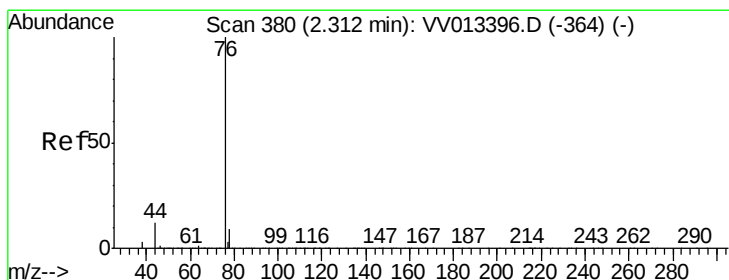
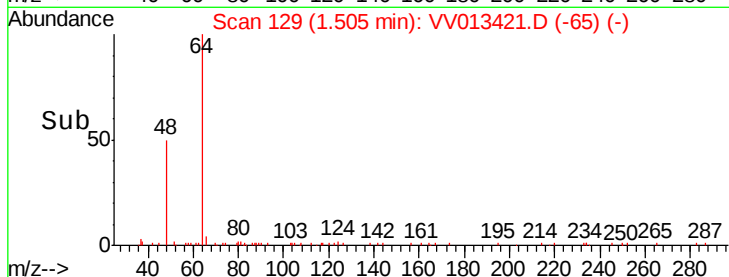
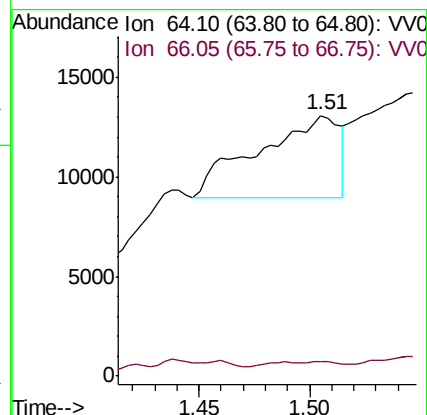
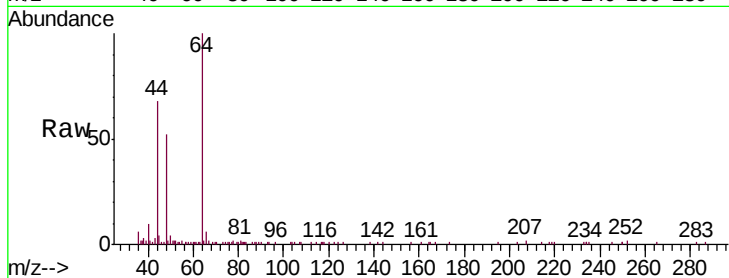
GAQD5

Tgt Ion: 64 Resp: 10504

Ion Ratio Lower Upper

64 100

66 5.7 22.0 41.0#



#14

Carbon disulfide

Concen: 0.045 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV013421.D

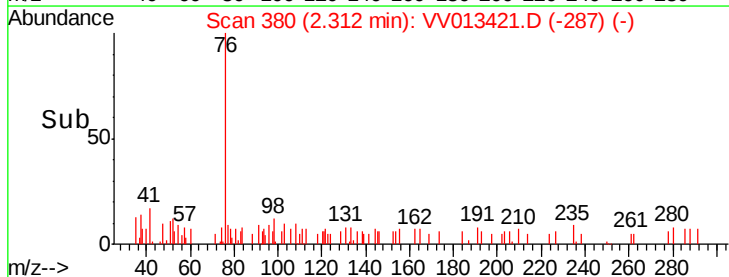
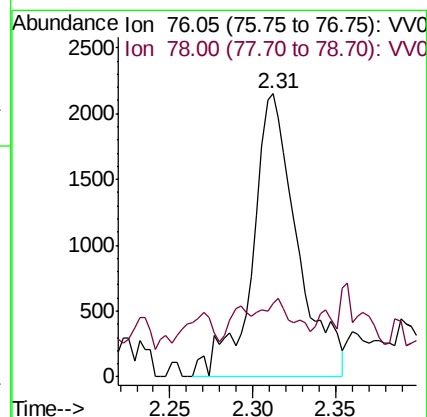
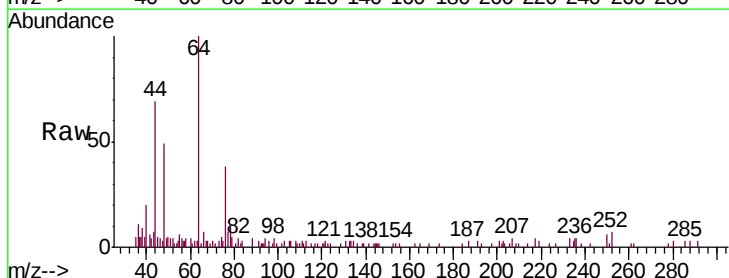
Acq: 30 Oct 2019 02:17

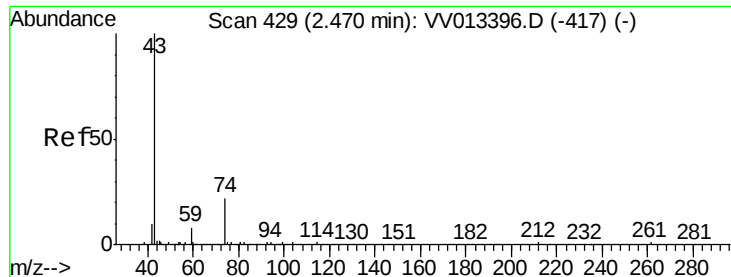
Tgt Ion: 76 Resp: 4045

Ion Ratio Lower Upper

76 100

78 26.1 7.5 11.3#

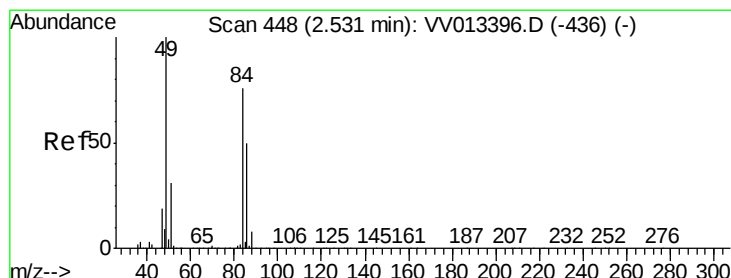
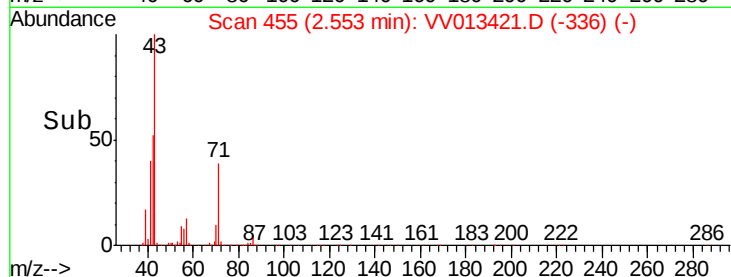
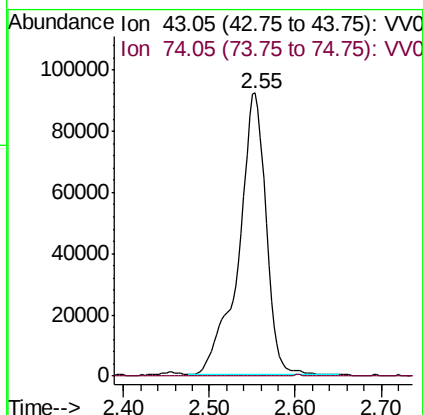
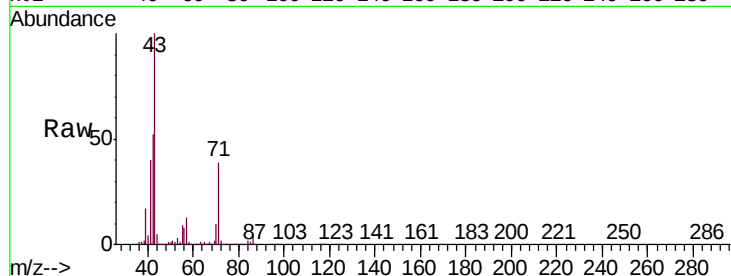




#15
Methyl Acetate
Concen: 13.436 ug/L
RT: 2.55 min Scan# 455
Delta R.T. 0.08 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

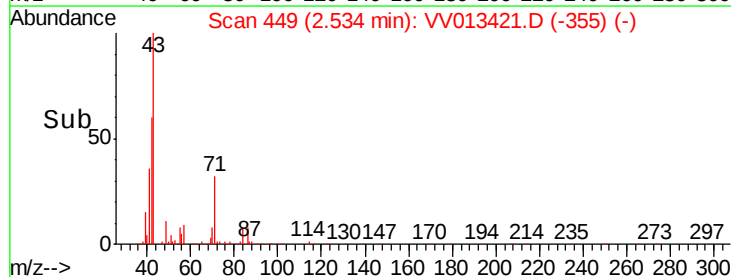
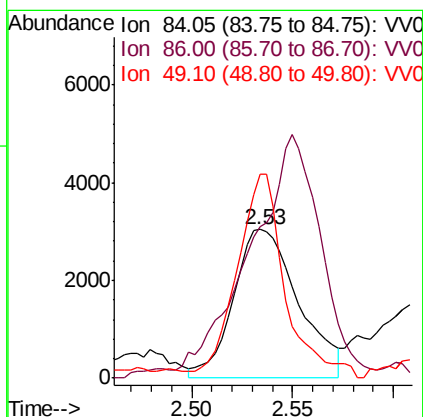
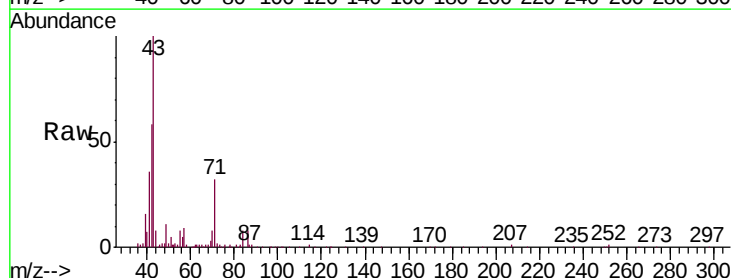
Instrument :
MSVOA_V
ClientSampleId :
GAQD5

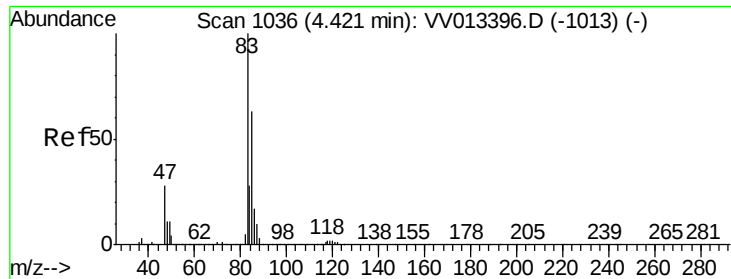
Tgt Ion: 43 Resp: 204698
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.6#



#16
Methylene chloride
Concen: 0.161 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

Tgt Ion: 84 Resp: 6861
Ion Ratio Lower Upper
84 100
86 102.2 43.8 81.4#
49 137.1 90.4 168.0





#25

Chloroform

Concen: 0.151 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

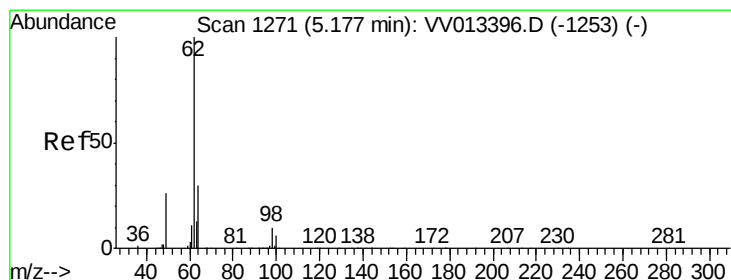
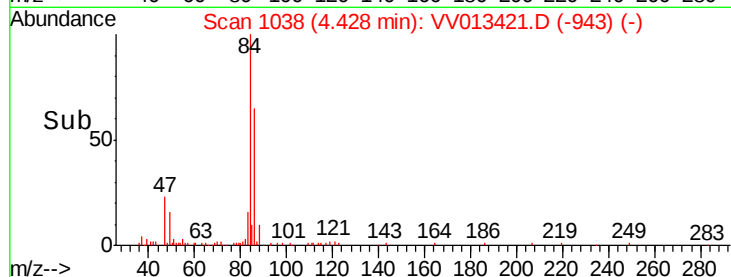
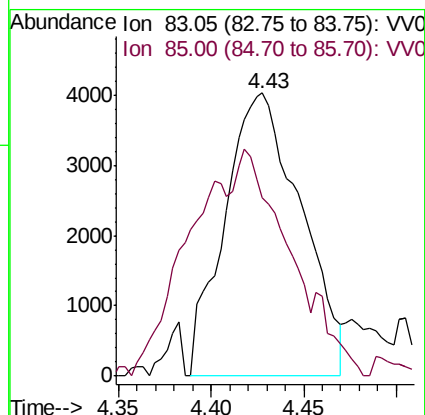
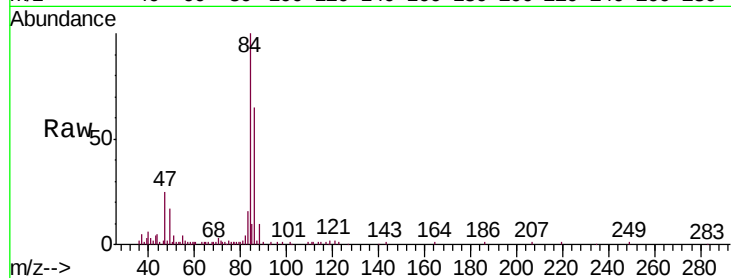
GAQD5

Tgt Ion: 83 Resp: 11517

Ion Ratio Lower Upper

83 100

85 63.2 46.5 86.5



#27

1,2-Dichloroethane

Concen: 0.093 ug/L

RT: 5.09 min Scan# 1245

Delta R.T. -0.08 min

Lab File: VV013421.D

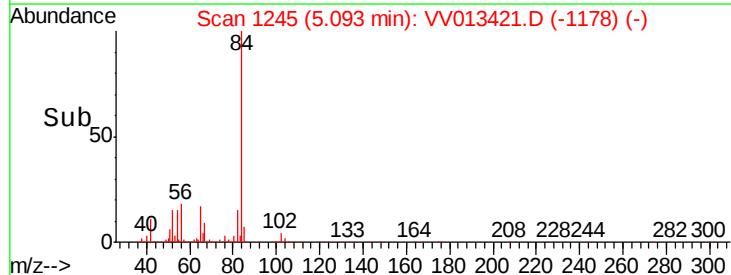
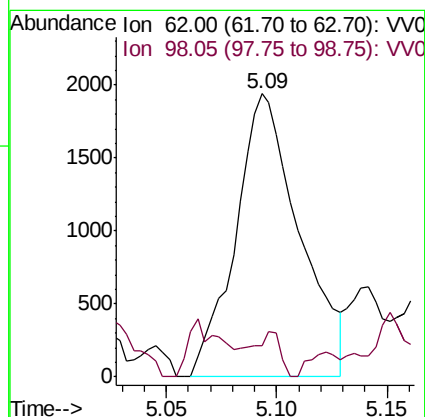
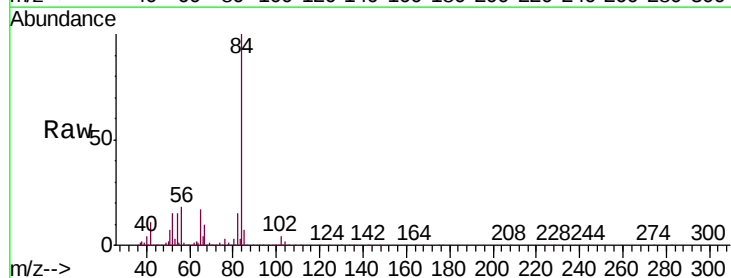
Acq: 30 Oct 2019 02:17

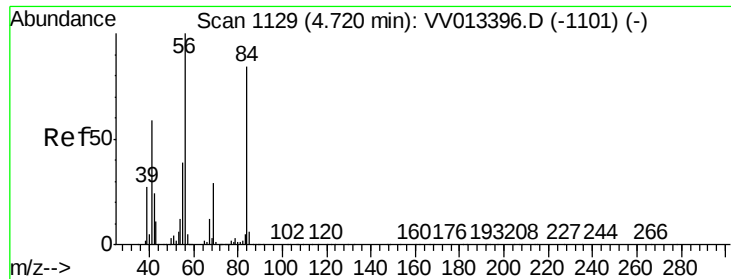
Tgt Ion: 62 Resp: 3894

Ion Ratio Lower Upper

62 100

98 11.1 8.6 12.8

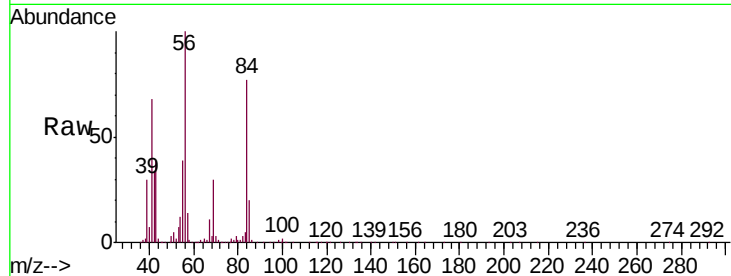




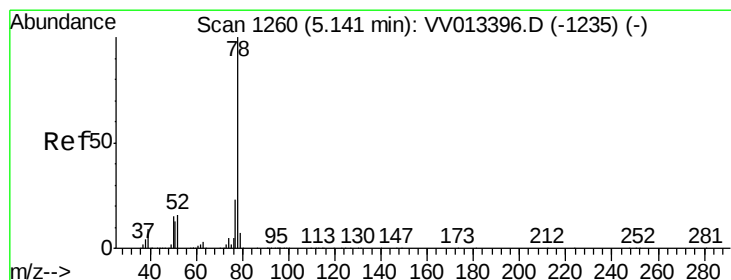
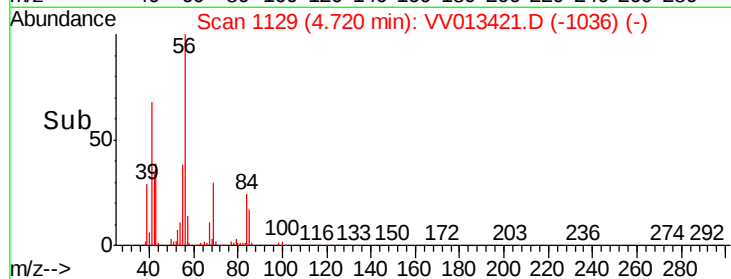
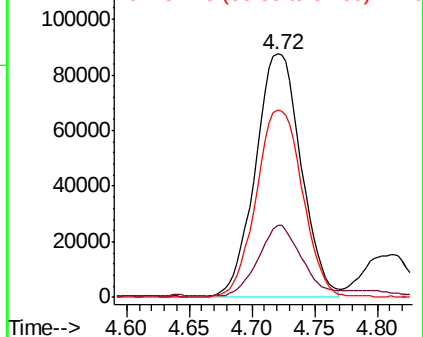
#30
Cyclohexane
Concen: 3.623 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

Instrument :
MSVOA_V
ClientSampleId :
GAQD5

Tgt Ion: 56 Resp: 221053
Ion Ratio Lower Upper
56 100
69 28.2 22.7 34.1
84 78.5 65.5 98.3

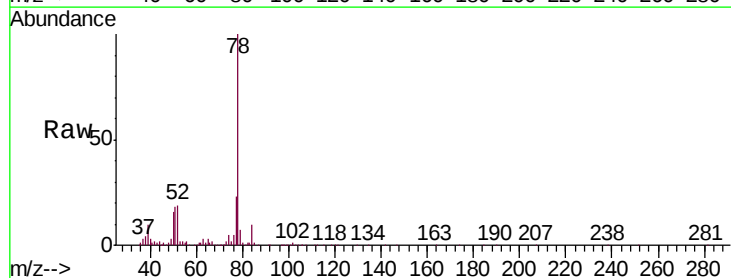


Abundance Ion 56.10 (55.80 to 56.80): VV0
120000
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0

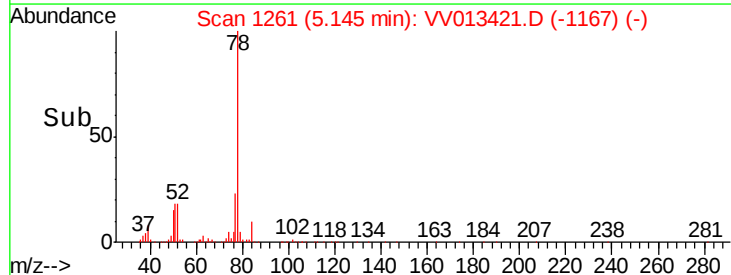
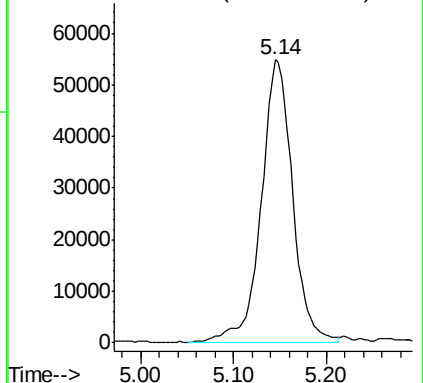


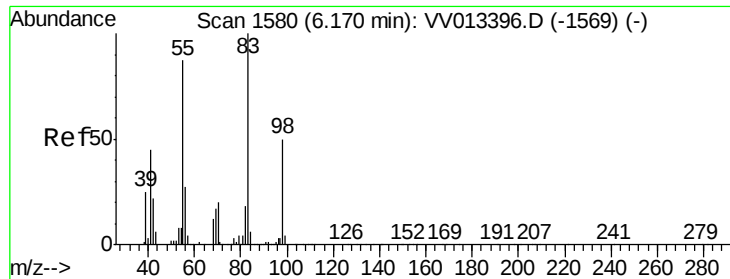
#33
Benzene
Concen: 0.878 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

Tgt Ion: 78 Resp: 128650



Abundance Ion 78.10 (77.80 to 78.80): VV0

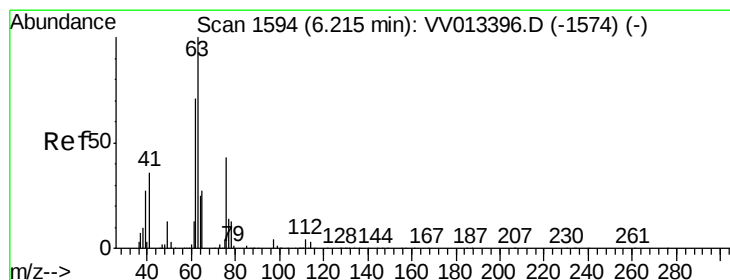
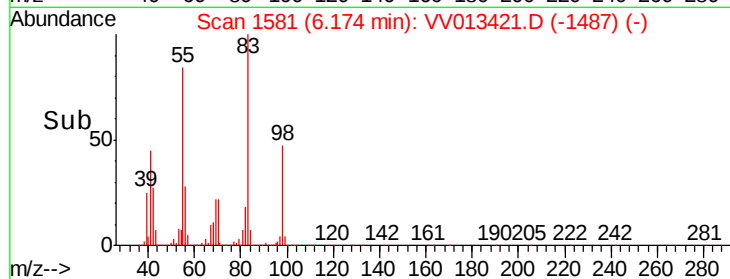
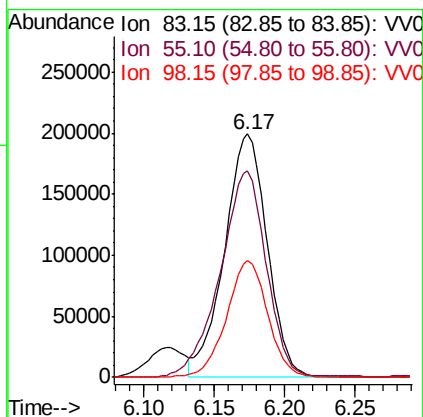
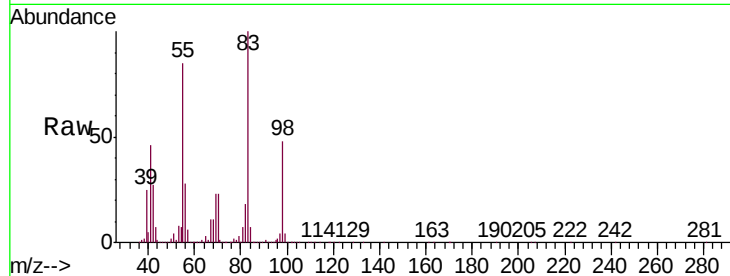




#35
Methylcyclohexane
Concen: 6.998 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

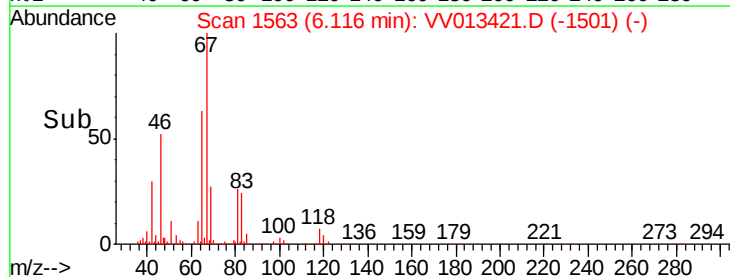
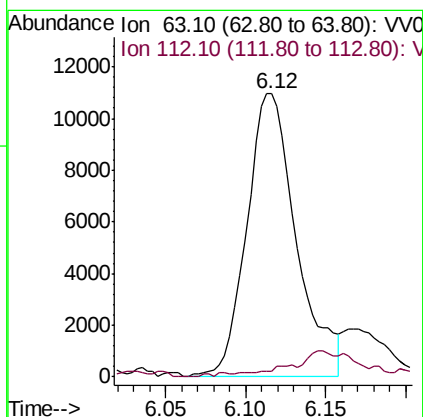
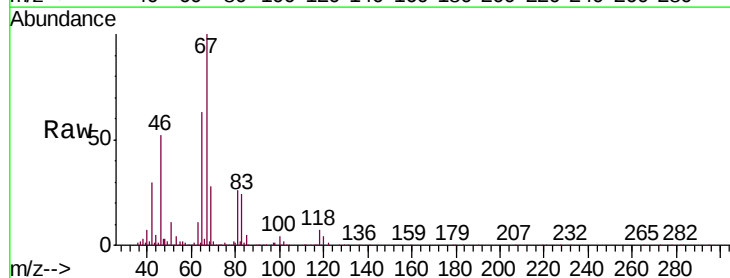
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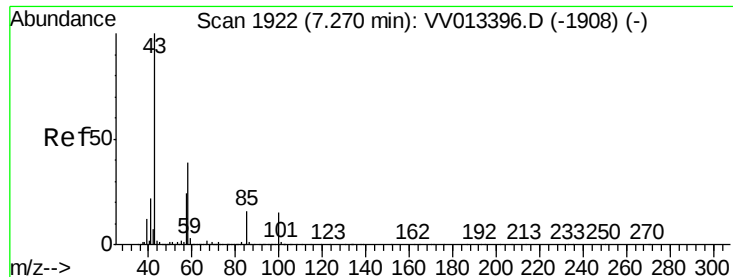
Tgt Ion: 83 Resp: 419945
Ion Ratio Lower Upper
83 100
55 91.8 66.0 99.0
98 46.7 38.2 57.4



#37
1,2-Dichloropropane
Concen: 0.632 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

Tgt Ion: 63 Resp: 23429
Ion Ratio Lower Upper
63 100
112 0.4 3.6 5.4#

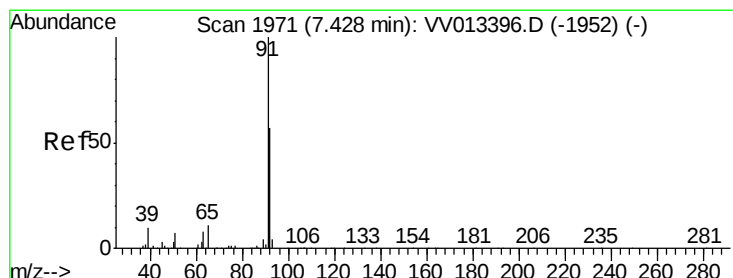
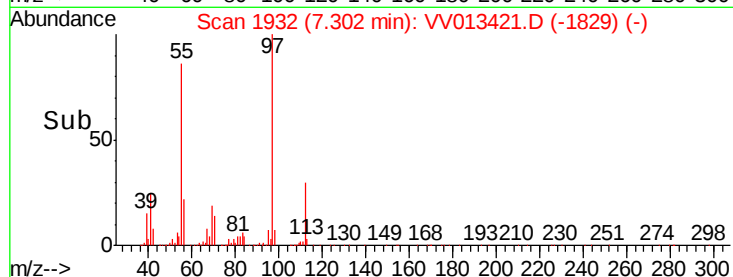
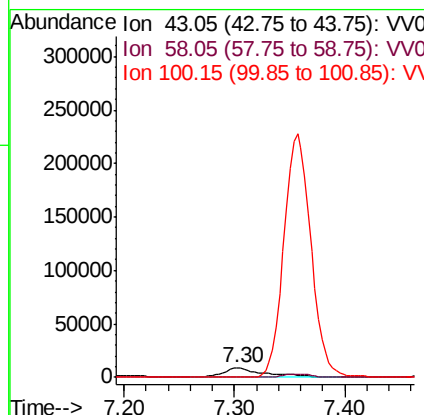
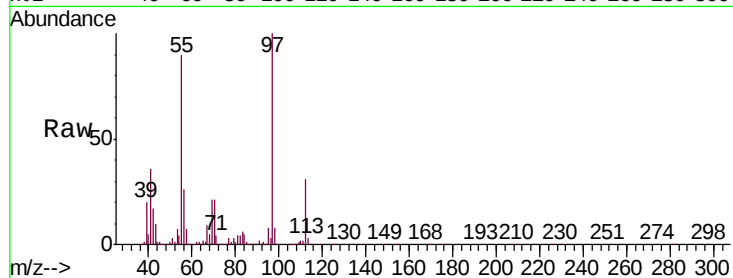




#40
4-Methyl-2-pentanone
Concen: 1.016 ug/L
RT: 7.30 min Scan# 1932
Delta R.T. 0.03 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

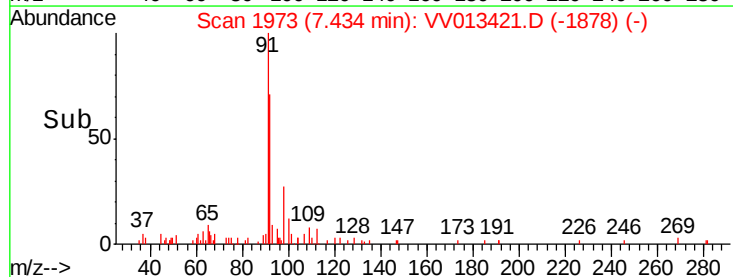
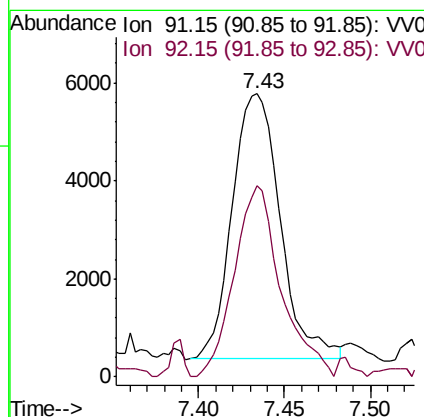
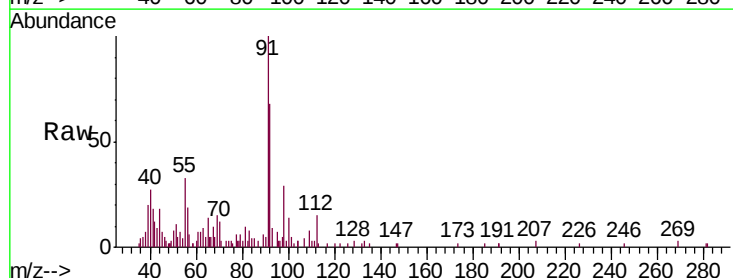
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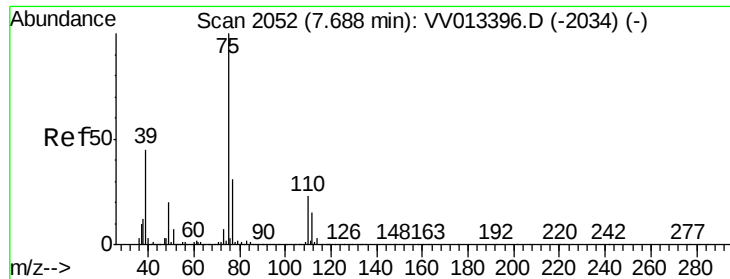
Tgt Ion: 43 Resp: 21201
Ion Ratio Lower Upper
43 100
58 0.9 29.8 44.8#
100 0.0 11.6 17.4#



#42
Toluene
Concen: 0.069 ug/L
RT: 7.43 min Scan# 1973
Delta R.T. 0.01 min
Lab File: VV013421.D
Acq: 30 Oct 2019 02:17

Tgt Ion: 91 Resp: 10486
Ion Ratio Lower Upper
91 100
92 67.7 40.3 74.8





#44

trans-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

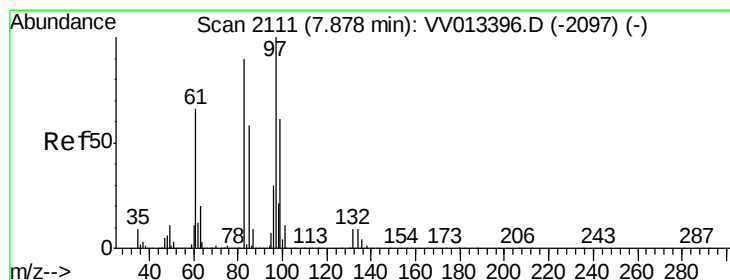
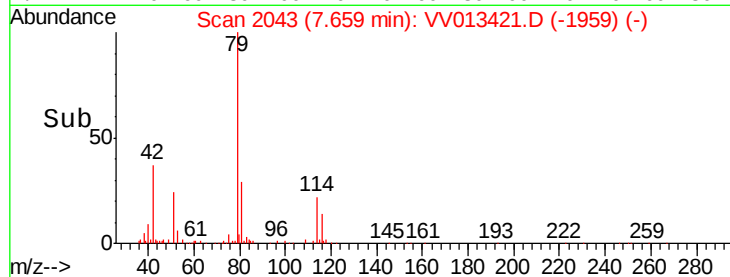
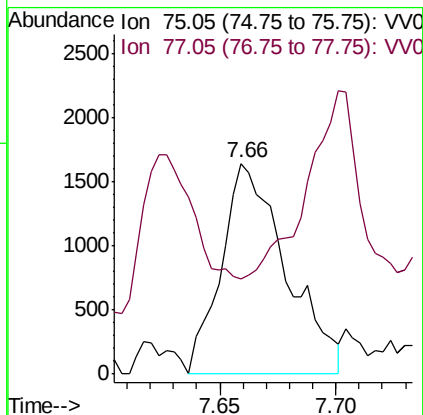
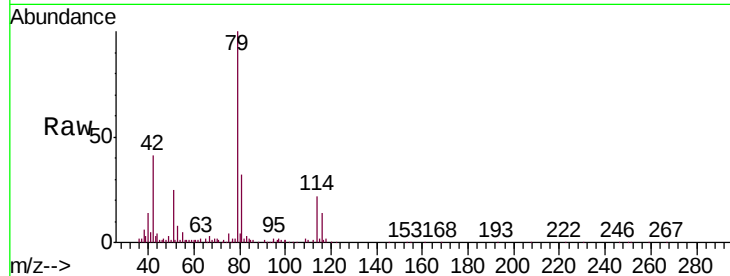
GAQD5

Tgt Ion: 75 Resp: 3189

Ion Ratio Lower Upper

75 100

77 45.5 21.5 39.9#



#45

1,1,2-Trichloroethane

Concen: 2.258 ug/L

RT: 7.83 min Scan# 2095

Delta R.T. -0.05 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Tgt Ion: 97 Resp: 55683

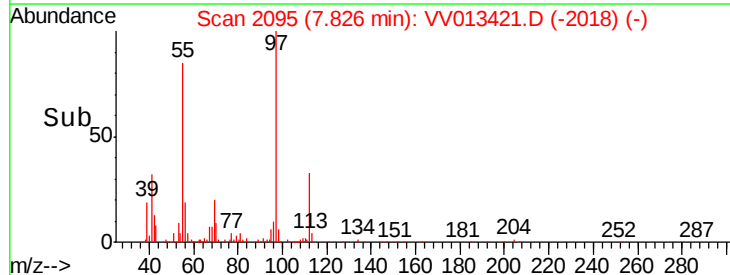
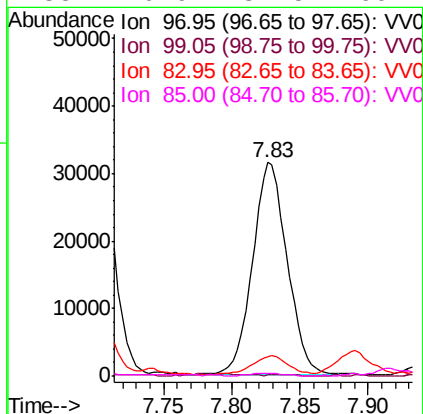
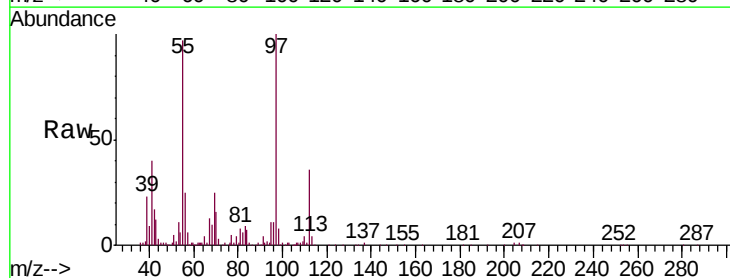
Ion Ratio Lower Upper

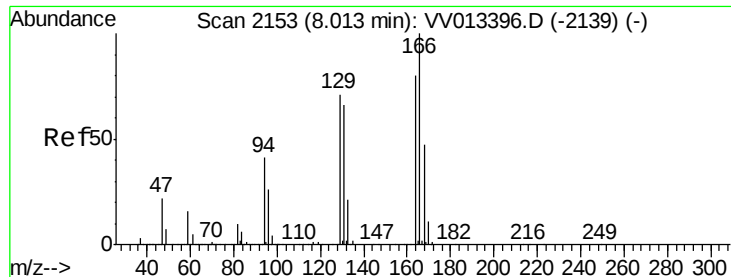
97 100

99 0.4 41.6 77.3#

83 9.3 58.7 109.1#

85 0.9 37.5 69.7#





#47

Tetrachloroethene

Concen: 0.576 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

GAQD5

Tgt Ion:164 Resp: 19651

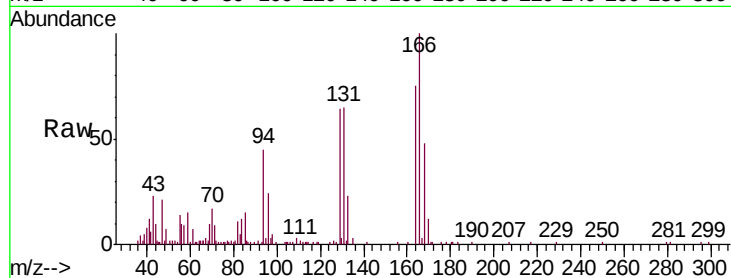
Ion Ratio Lower Upper

164 100

129 84.6 63.4 117.8

131 85.6 60.3 112.1

166 132.5 90.8 168.6

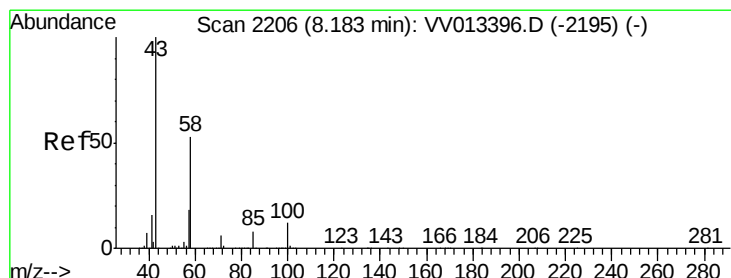
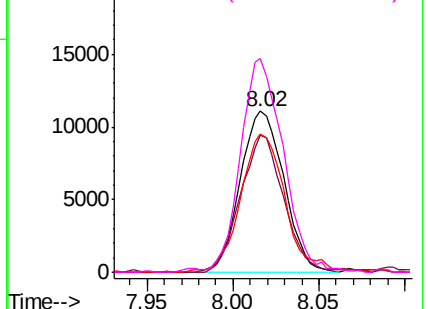
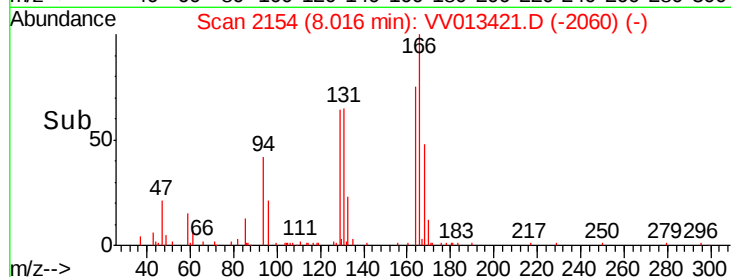


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 1.348 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Tgt Ion: 43 Resp: 19889

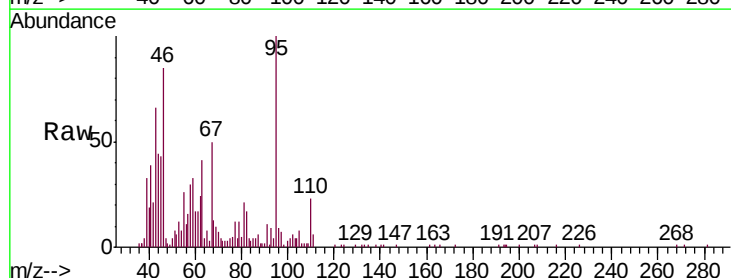
Ion Ratio Lower Upper

43 100

58 0.0 43.5 65.3#

57 0.0 14.3 21.5#

100 5.2 9.3 13.9#

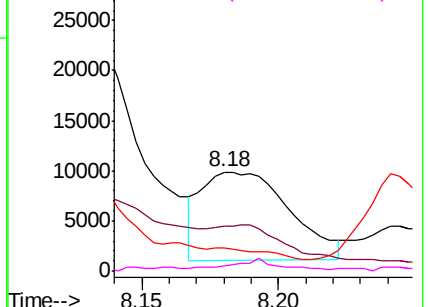
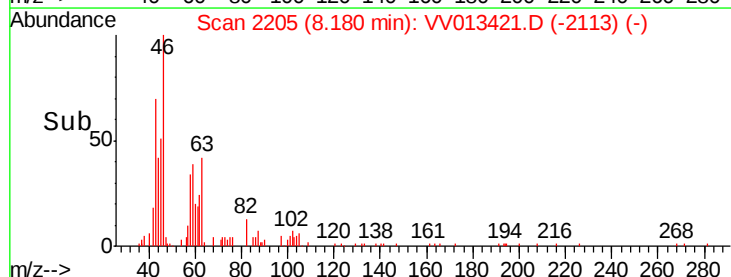


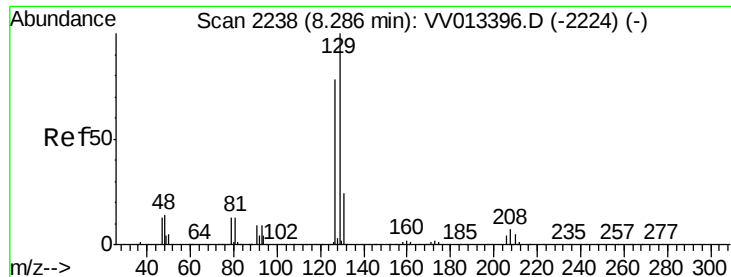
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 0.503 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

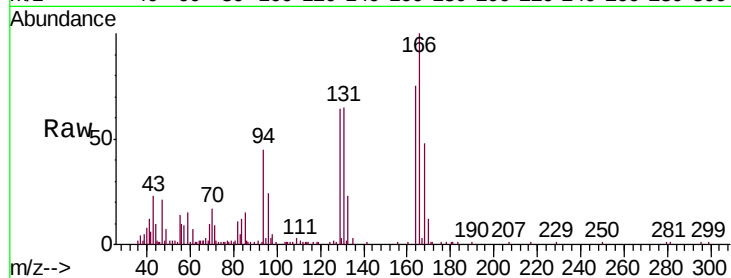
GAQD5

Tgt Ion:129 Resp: 15359

Ion Ratio Lower Upper

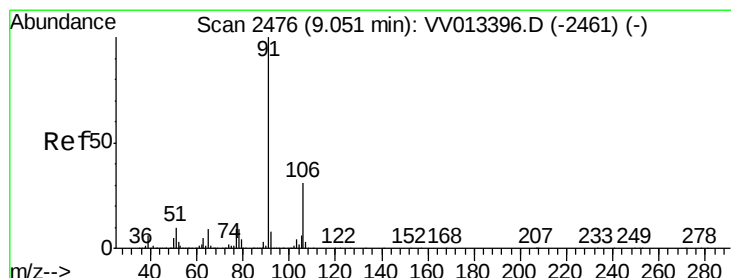
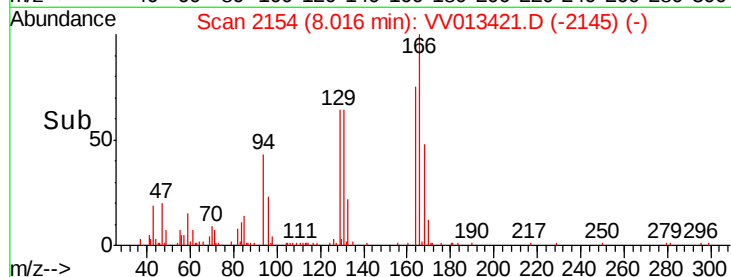
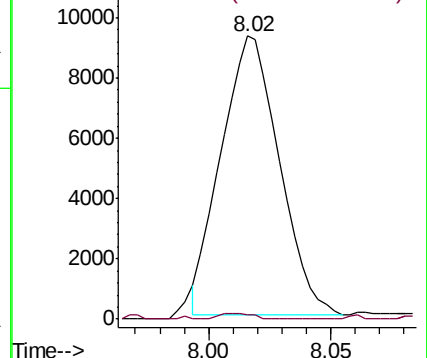
129 100

127 1.6 53.8 100.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#52

Ethylbenzene

Concen: 1.910 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013421.D

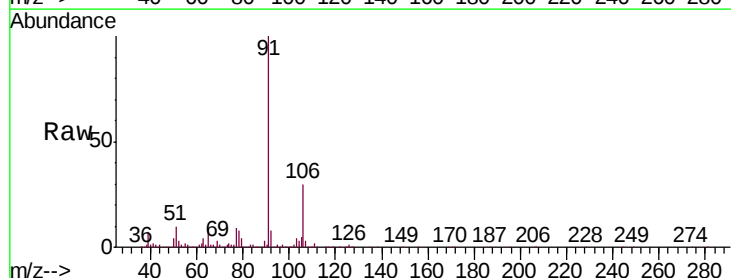
Acq: 30 Oct 2019 02:17

Tgt Ion: 91 Resp: 309487

Ion Ratio Lower Upper

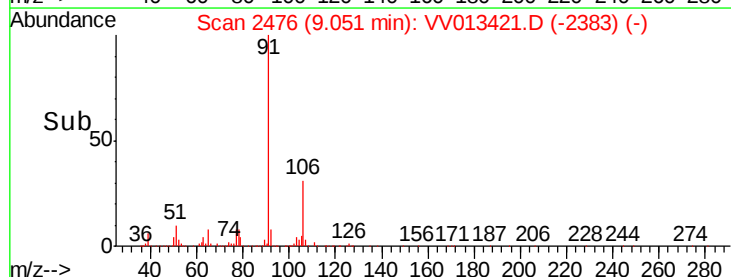
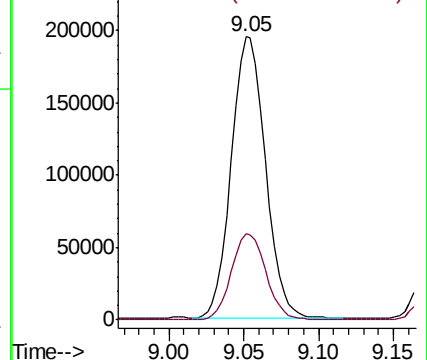
91 100

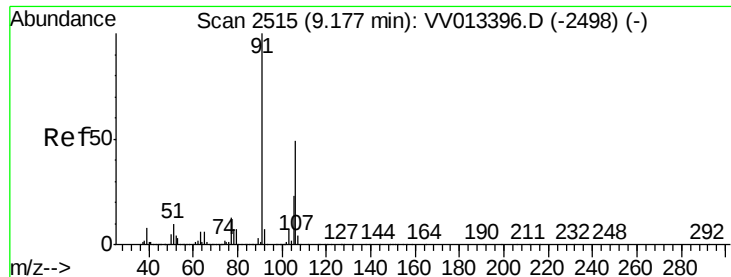
106 30.3 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 1.057 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

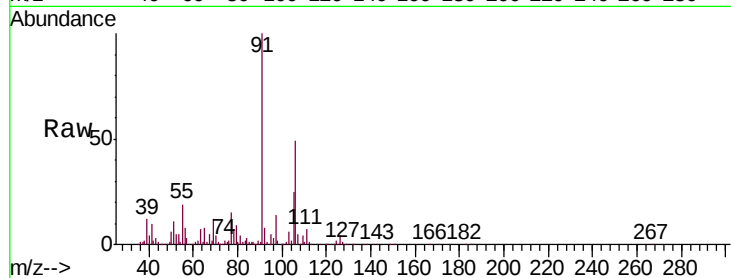
GAQD5

Tgt Ion:106 Resp: 63232

Ion Ratio Lower Upper

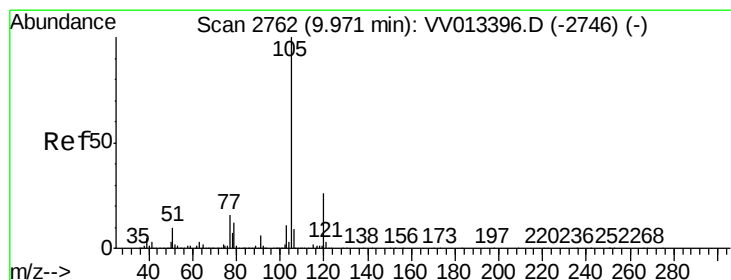
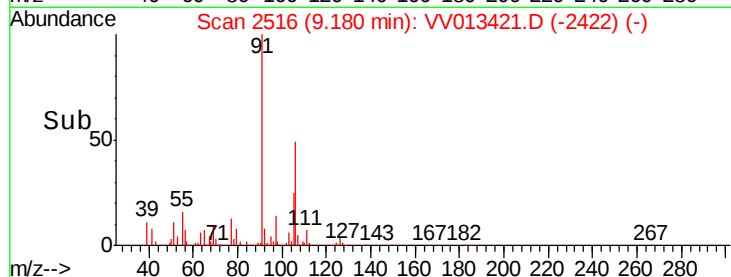
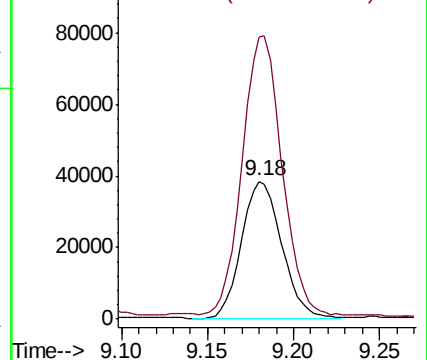
106 100

91 204.9 144.3 267.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

Isopropylbenzene

Concen: 0.510 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

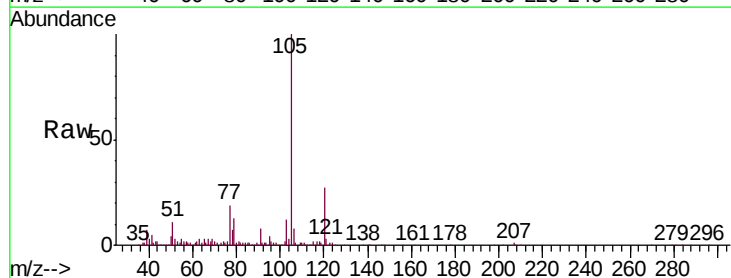
Tgt Ion:105 Resp: 79546

Ion Ratio Lower Upper

105 100

120 28.3 21.0 31.6

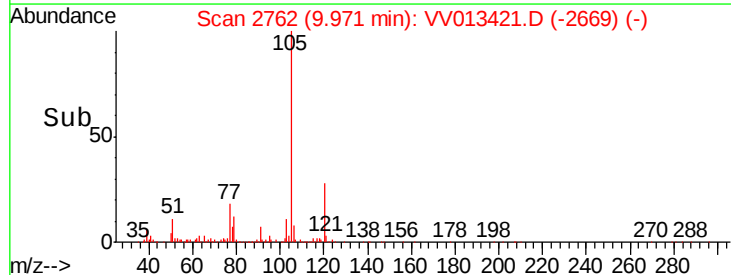
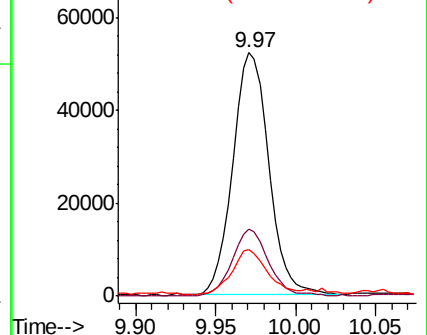
77 17.7 12.9 19.3

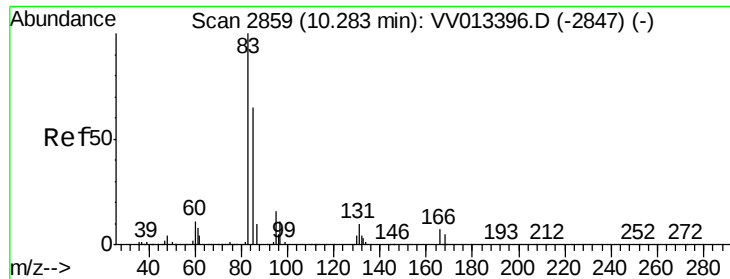


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.344 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampled :

GAQD5

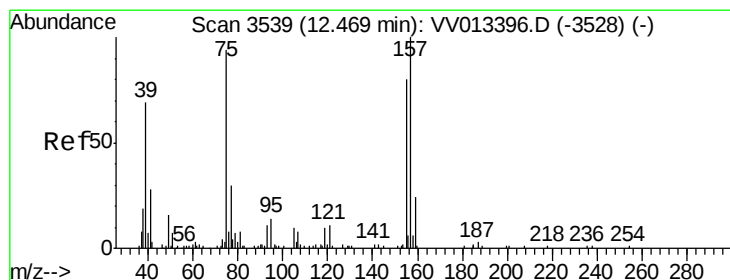
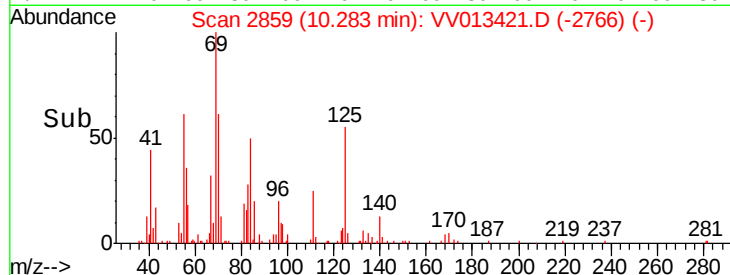
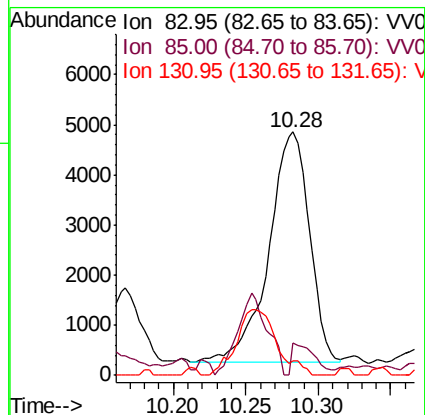
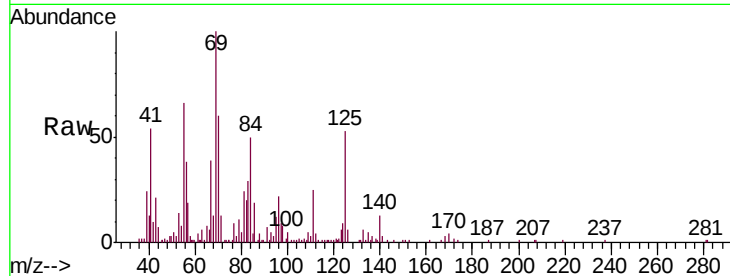
Tgt Ion: 83 Resp: 8998

Ion Ratio Lower Upper

83 100

85 13.4 44.5 82.7#

131 5.8 8.2 12.2#



#66

1,2-Dibromo-3-chloropropane

Concen: 0.297 ug/L

RT: 12.46 min Scan# 3535

Delta R.T. -0.01 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

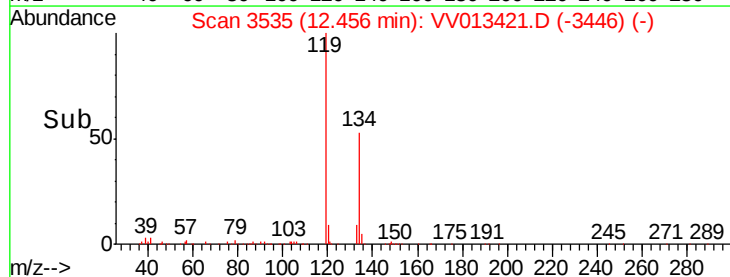
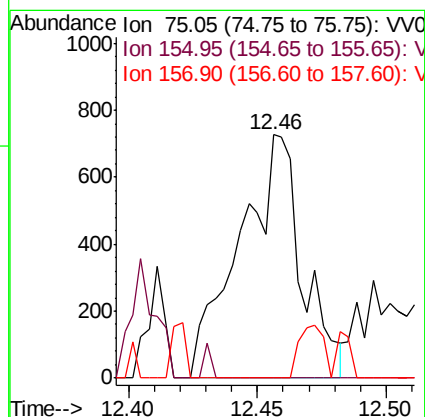
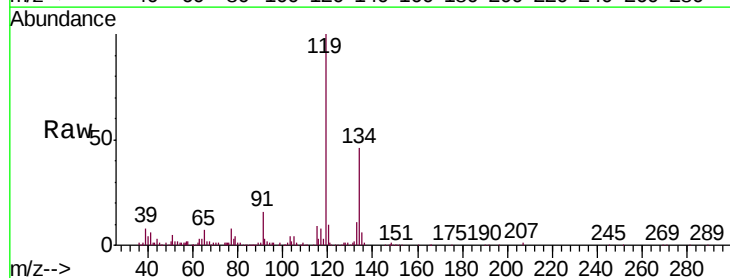
Tgt Ion: 75 Resp: 1231

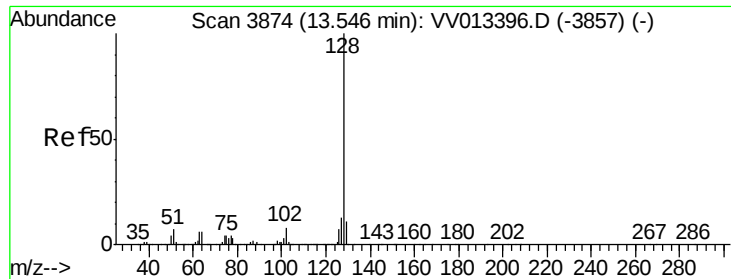
Ion Ratio Lower Upper

75 100

155 0.0 70.6 105.8#

157 0.0 85.8 128.8#





#69

Naphthalene

Concen: 2.112 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013421.D

Acq: 30 Oct 2019 02:17

Instrument :

MSVOA_V

ClientSampleId :

GAQD5

Tgt Ion:128 Resp: 141328

Ion Ratio Lower Upper

128 100

129 11.8 8.7 13.1

127 14.9 10.6 16.0

