

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060520\
 Data File : VV016566.D
 Acq On : 06 Jun 2020 04:03
 Operator : SY/MD
 Sample : L2862-12
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 06 06:33:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 06 06:28:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	401663	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	382761	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	192252	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	113676	39.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.92%
7) Chloroethane-d5	1.56	69	82316	40.08	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.16%
11) 1,1-Dichloroethene-d2	2.12	63	153579	30.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.90%
21) 2-Butanone-d5	3.90	46	181280	99.65	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.65%
24) Chloroform-d	4.37	84	235825	44.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.34%
26) 1,2-Dichloroethane-d4	5.07	65	169837	47.50	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.00%
32) Benzene-d6	5.08	84	480078	46.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.64%
36) 1,2-Dichloropropane-d6	6.09	67	145787	45.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.26%
41) Toluene-d8	7.34	98	441330	47.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	7.64	79	70201	45.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.18%
47) 2-Hexanone-d5	8.11	63	147506	107.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.81%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	190486	43.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.92%
64) 1,2-Dichlorobenzene-d4	11.65	152	180534	49.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.94%

Target Compounds

					Ovalue
3) Chloromethane	1.42	50	33359	10.447 ug/L	83
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1595	0.688 ug/L #	22
13) Acetone	2.17	43	11484	6.755 ug/L	90
15) Methyl Acetate	2.44	43	25687	8.220 ug/L #	54
27) 1,2-Dichloroethane	5.15	62	764082	172.413 ug/L #	76
29) Cyclohexane	4.70	56	232106	51.092 ug/L	98
35) Methylcyclohexane	6.15	83	13915	3.282 ug/L	91
37) 1,2-Dichloropropane	6.20	63	6036	2.057 ug/L	99
39) cis-1,3-Dichloropropene	7.01	75	7797	1.823 ug/L	90
40) 4-Methyl-2-pentanone	7.25	43	151038	37.411 ug/L	100
42) Toluene	7.41	91	7325889	614.158 ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	10260	2.444 ug/L	84
48) 2-Hexanone	8.16	43	21157	6.741 ug/L #	93
52) Ethylbenzene	9.04	91	7922236	610.218 ug/L	98
53) m,p-Xylene	9.16	106	561249	114.650 ug/L	99
54) o-xylene	9.57	106	767523	161.888 ug/L	99
55) Styrene	9.57	104	54227	6.529 ug/L #	1

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ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060320WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jun 06 06:28:49 2020
Response via : Initial Calibration

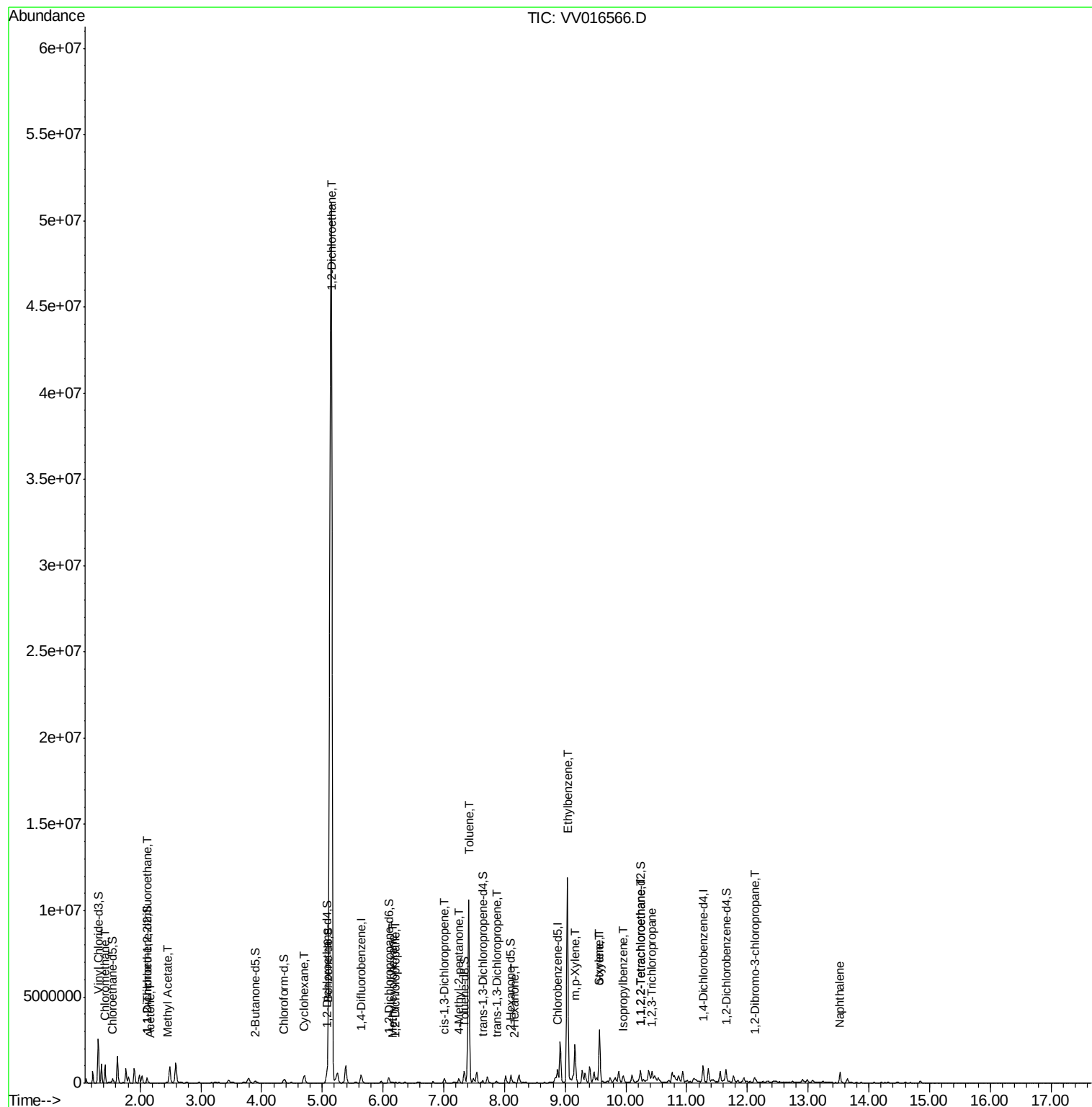
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	9.95	105	198810	16.144	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.25	83	6193	1.361	ug/L #	89
59) 1,2,3-Trichloropropane	10.43	75	2239	0.612	ug/L	89
66) 1,2-Dibromo-3-chloropropan	12.14	75	2161	2.375	ug/L #	8
69) Naphthalene	13.53	128	437453	38.415	ug/L	99

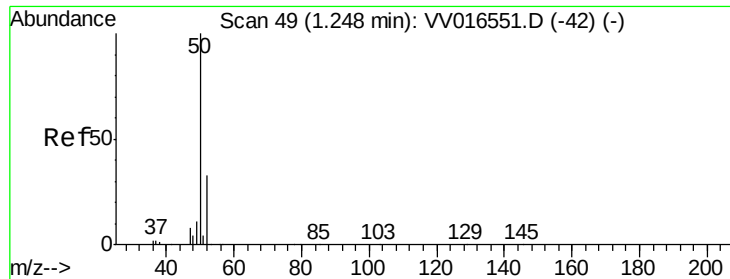
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 10.447 ug/L

RT: 1.42 min Scan# 103

Delta R.T. 0.17 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

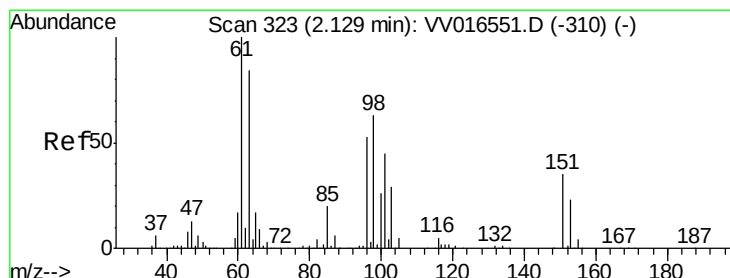
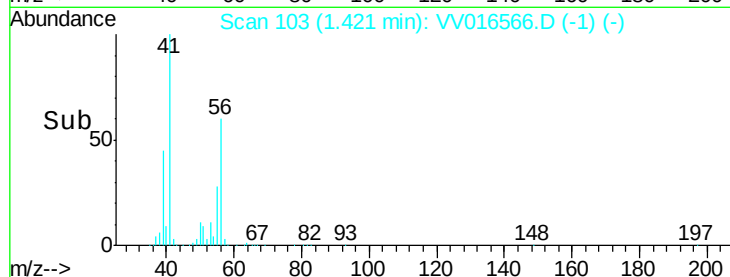
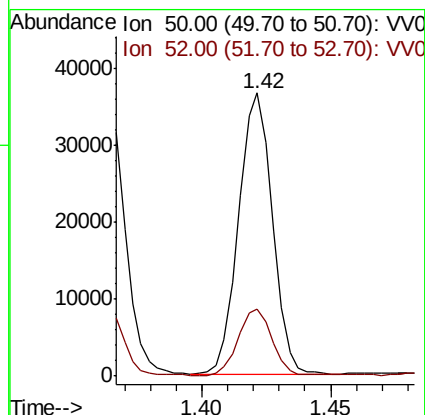
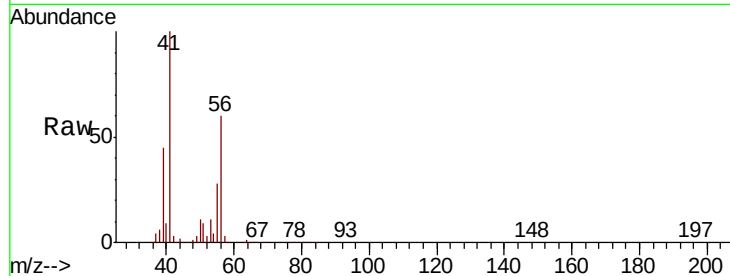
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 33359

Ion Ratio Lower Upper

50 100

52 23.8 23.5 43.7



#10

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

Concen: 0.688 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

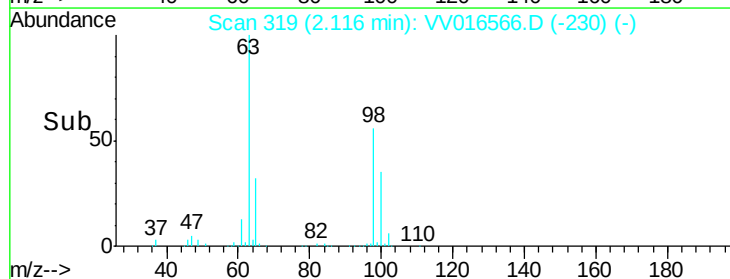
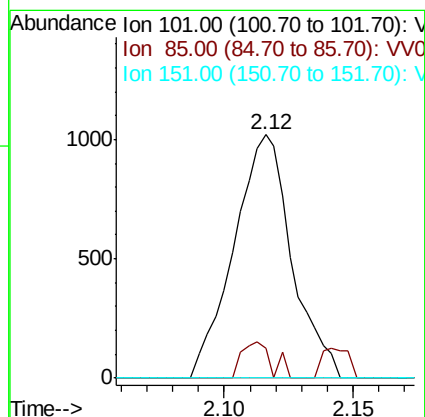
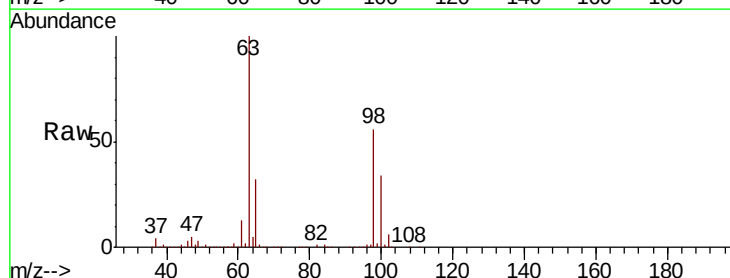
Tgt Ion: 101 Resp: 1595

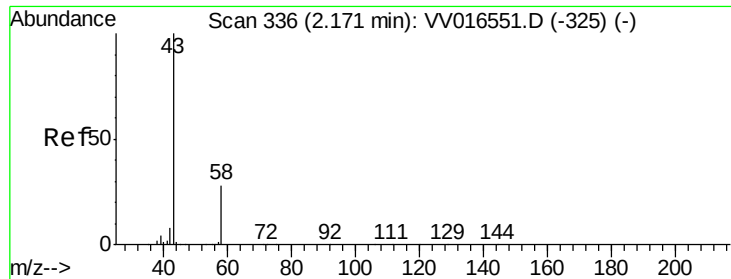
Ion Ratio Lower Upper

101 100

85 6.3 35.6 53.4#

151 0.0 61.8 92.8#





#13

Acetone

Concen: 6.755 ug/L

RT: 2.17 min Scan# 337

Delta R.T. 0.00 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

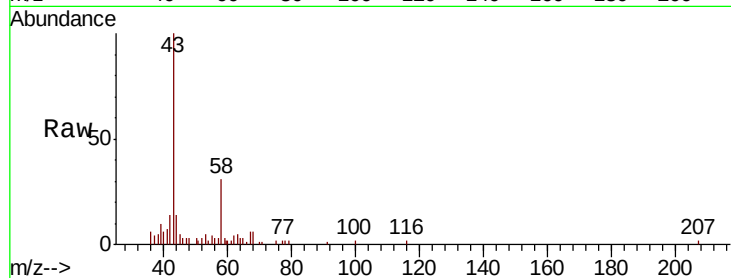
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 11484

Ion Ratio Lower Upper

43 100

58 33.8 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VV016551.D (-325) (-)

Ion 58.00 (57.70 to 58.70): VV016551.D (-325) (-)

2.17

8000

6000

4000

2000

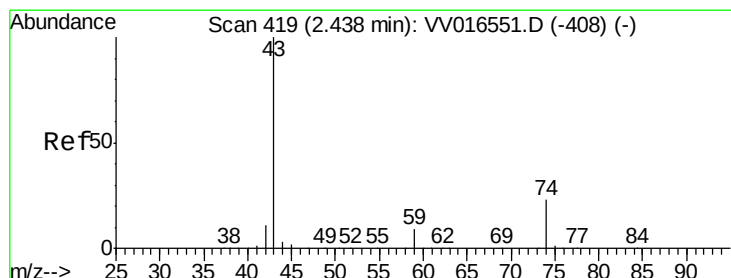
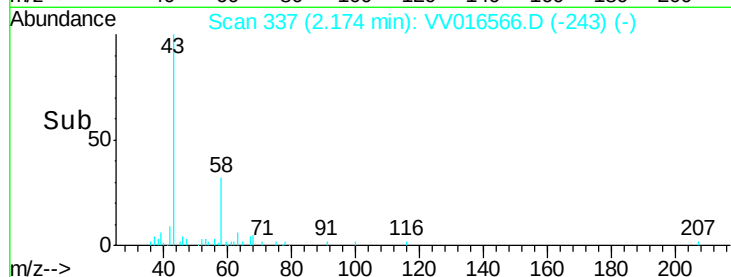
0

Time-->

2.15

2.20

2.25



#15

Methyl Acetate

Concen: 8.220 ug/L

RT: 2.44 min Scan# 421

Delta R.T. 0.01 min

Lab File: VV016566.D

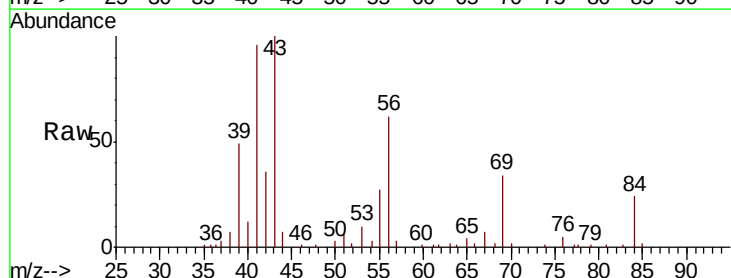
Acq: 06 Jun 2020 04:03

Tgt Ion: 43 Resp: 25687

Ion Ratio Lower Upper

43 100

74 0.3 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VV016551.D (-408) (-)

Ion 74.00 (73.70 to 74.70): VV016551.D (-408) (-)

2.44

15000

10000

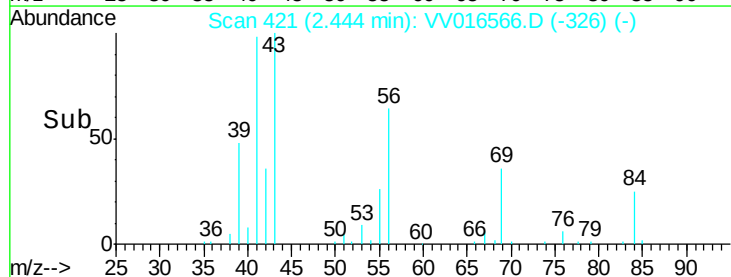
5000

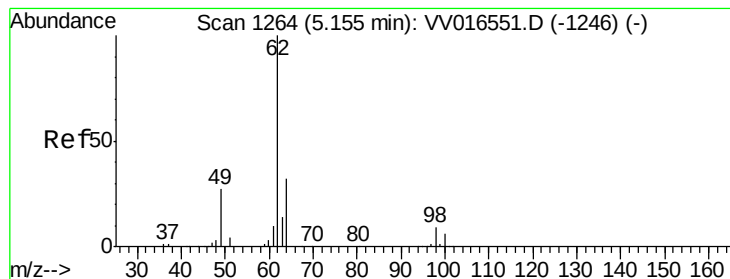
0

Time-->

2.40

2.45





#27

1,2-Dichloroethane

Concen: 172.413 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

Instrument :

MSVOA_V

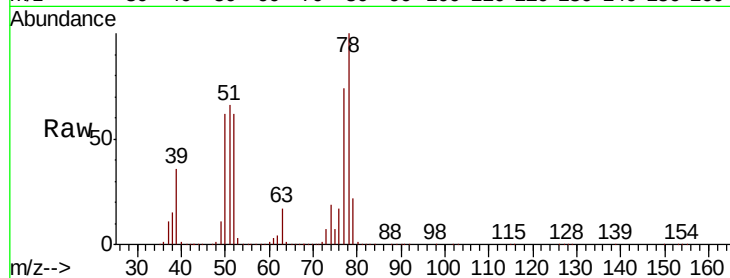
ClientSampleId :

Tot Ion: 62 Resp: 764082

Ion Ratio Lower Upper

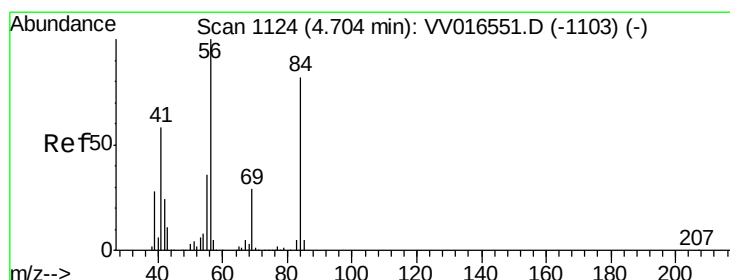
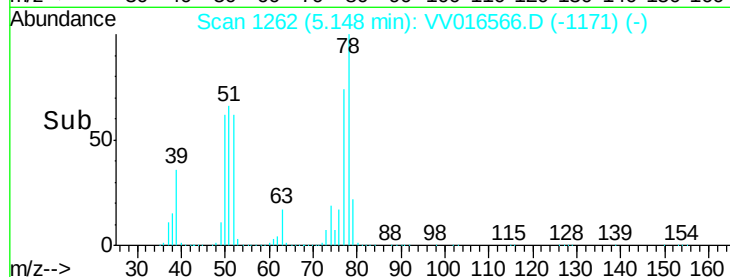
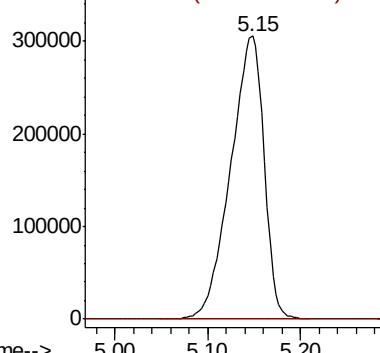
62 100

98 0.1 6.9 10.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#29

Cyclohexane

Concen: 51.092 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

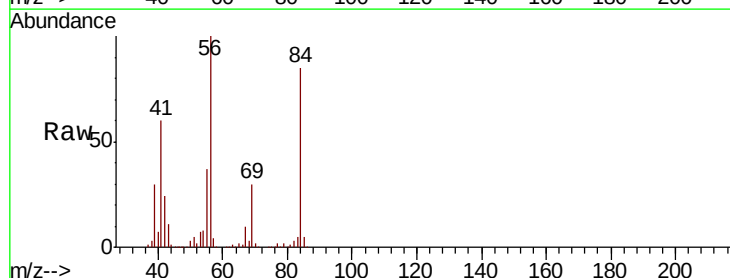
Tgt Ion: 56 Resp: 232106

Ion Ratio Lower Upper

56 100

69 31.2 23.9 35.9

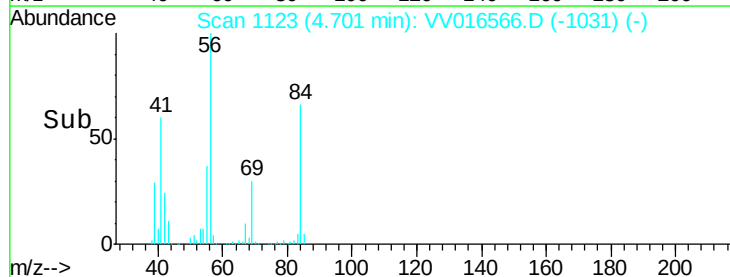
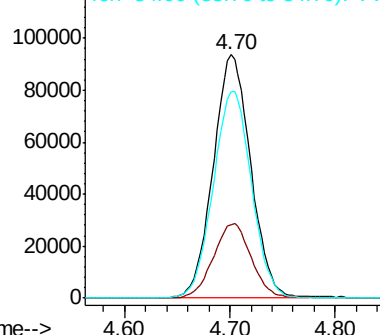
84 86.6 68.2 102.2

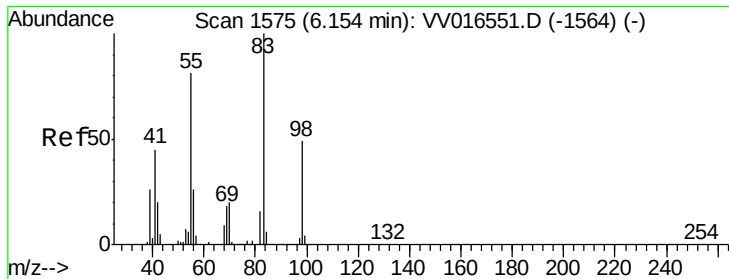


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0

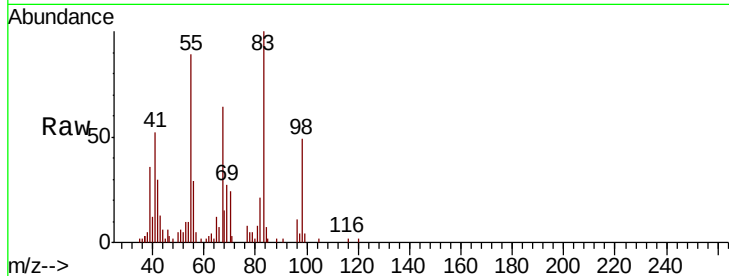




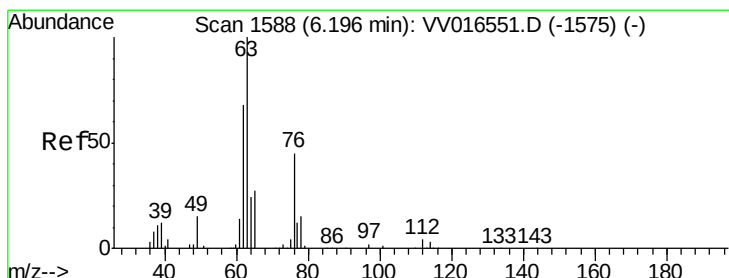
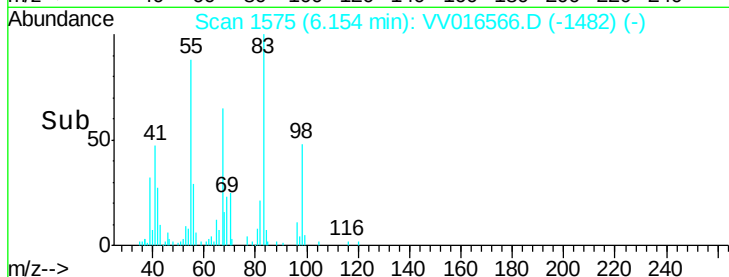
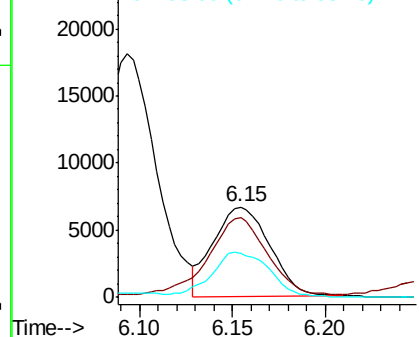
#35
Methvlcvclohexane
Concen: 3.282 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VV016566.D
Acq: 06 Jun 2020 04:03

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 13915
Ion Ratio Lower Upper
83 100
55 88.5 63.4 95.0
98 53.2 39.4 59.0

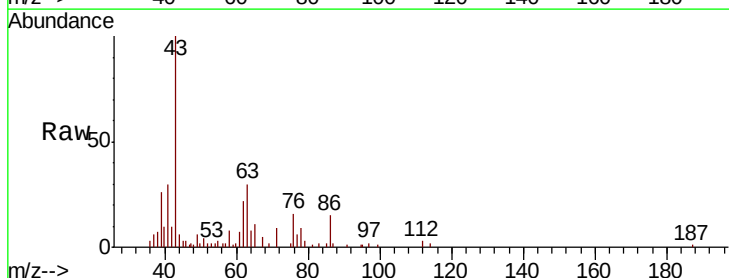


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

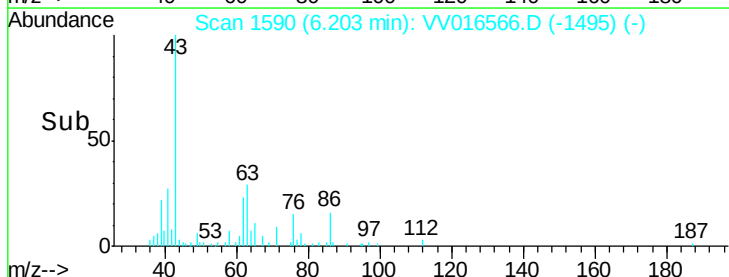
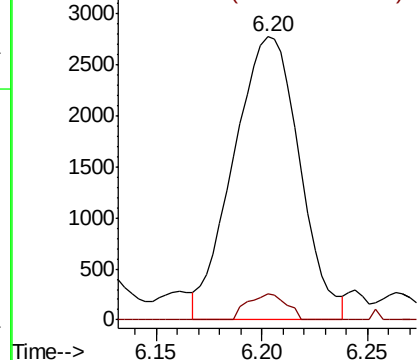


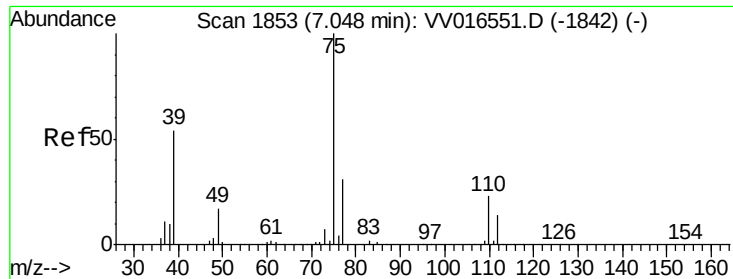
#37
1,2-Dichloropropane
Concen: 2.057 ug/L
RT: 6.20 min Scan# 1590
Delta R.T. 0.01 min
Lab File: VV016566.D
Acq: 06 Jun 2020 04:03

Tgt Ion: 63 Resp: 6036
Ion Ratio Lower Upper
63 100
112 5.4 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V

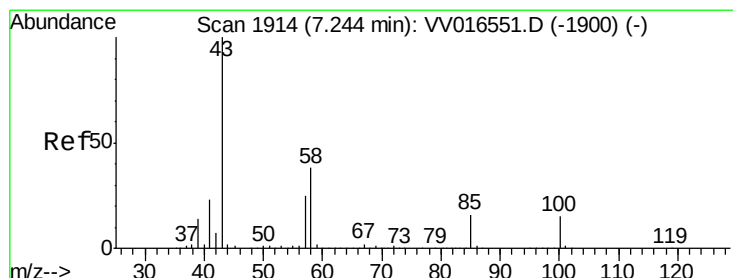
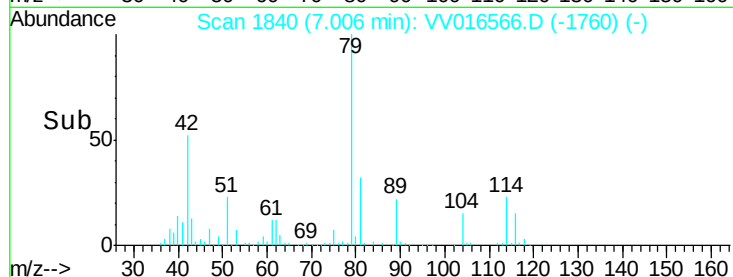
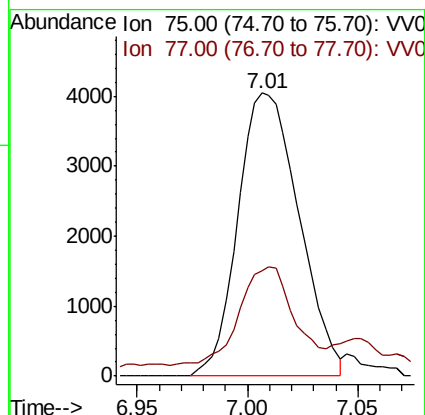
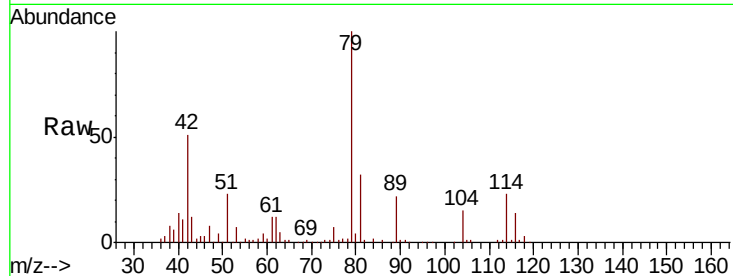




#39
 cis-1,3-Dichloropropene
 Concen: 1.823 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV016566.D
 Acq: 06 Jun 2020 04:03

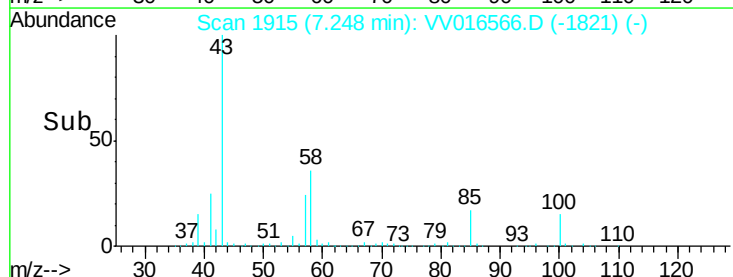
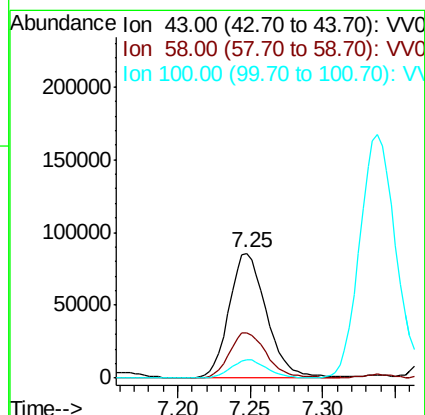
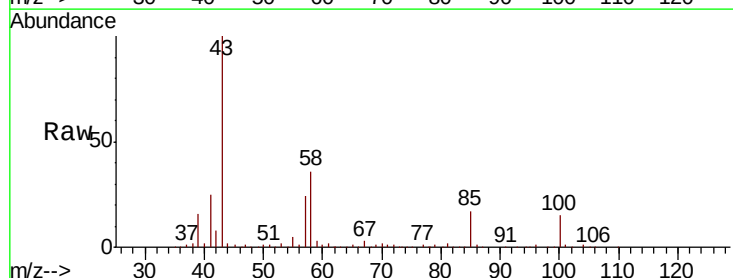
Instrument :
 MSVOA_V
 ClientSampled :

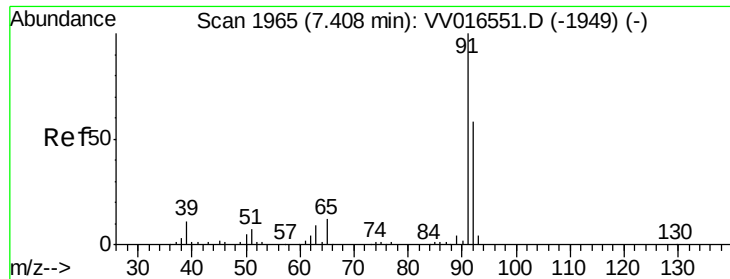
Tot Ion: 75 Resp: 7797
 Ion Ratio Lower Upper
 75 100
 77 37.1 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 37.411 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV016566.D
 Acq: 06 Jun 2020 04:03

Tgt Ion: 43 Resp: 151038
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.9 44.9
 100 15.1 11.9 17.9





#42

Toluene

Concen: 614.158 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

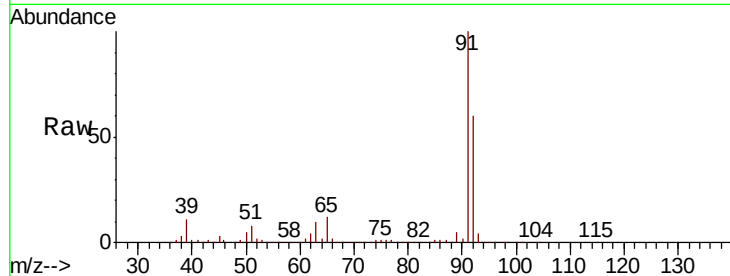
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 7325889

Ion Ratio Lower Upper

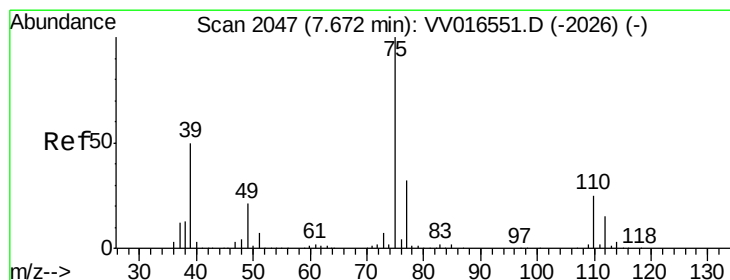
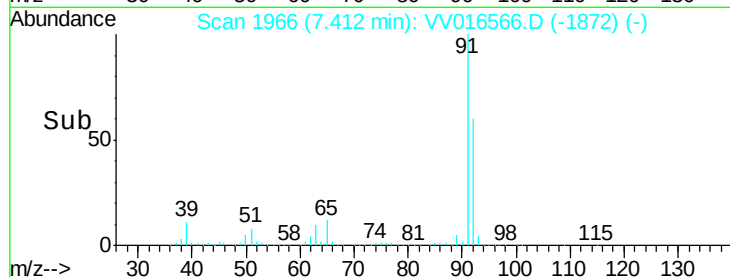
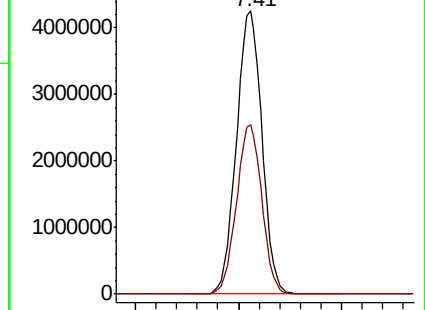
91 100

92 60.1 40.9 75.9



Abundance Ion 91.00 (90.70 to 91.70): VV016551.D (-1949) (-)

Ion 92.00 (91.70 to 92.70): VV016551.D (-1949) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.444 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.21 min

Lab File: VV016566.D

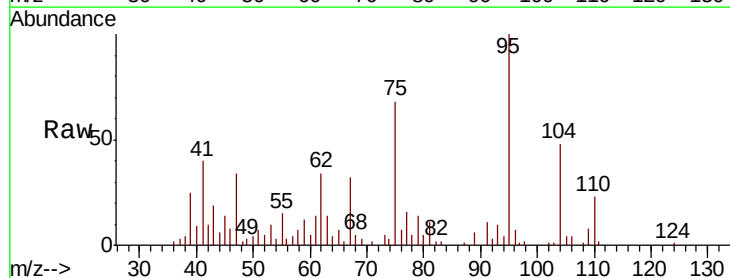
Acq: 06 Jun 2020 04:03

Tgt Ion: 75 Resp: 10260

Ion Ratio Lower Upper

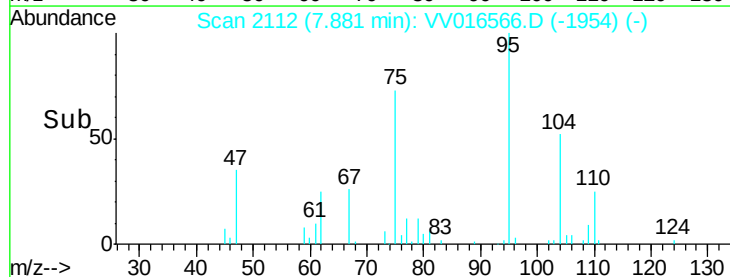
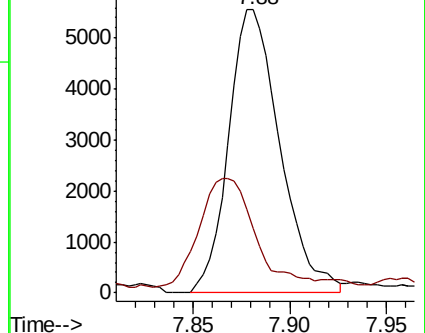
75 100

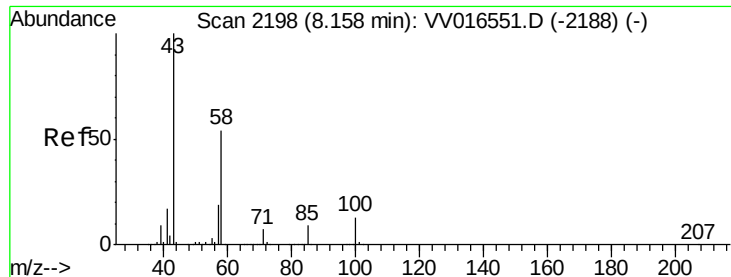
77 22.9 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV016551.D (-2026) (-)

Ion 77.00 (76.70 to 77.70): VV016551.D (-2026) (-)

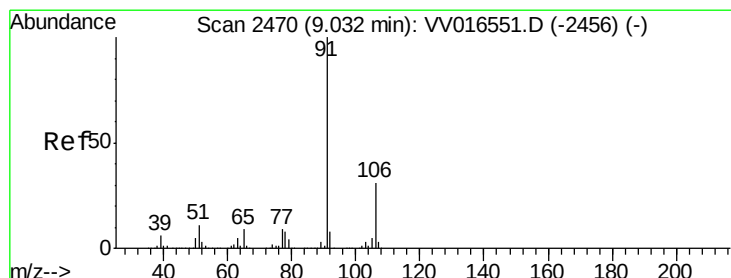
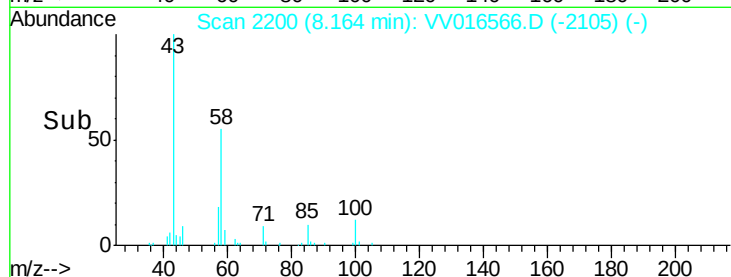
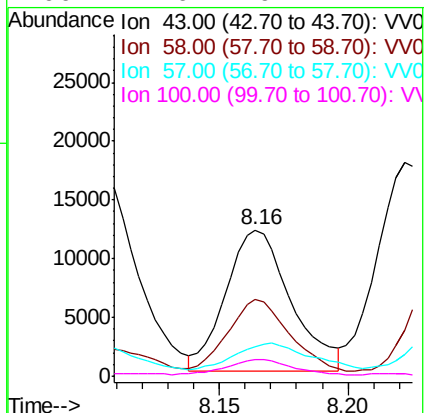
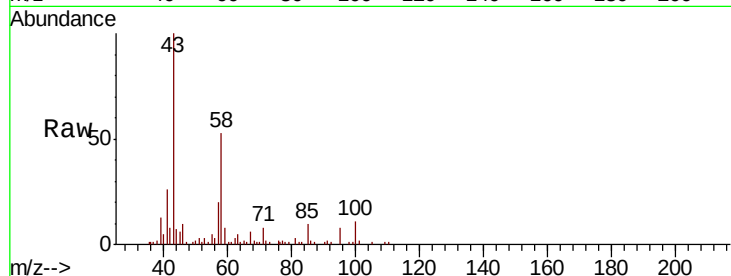




#48
2-Hexanone
Concen: 6.741 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV016566.D
Acq: 06 Jun 2020 04:03

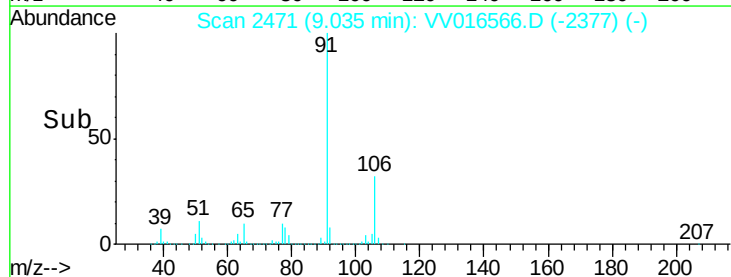
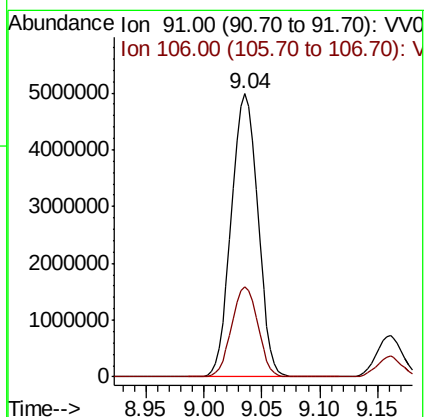
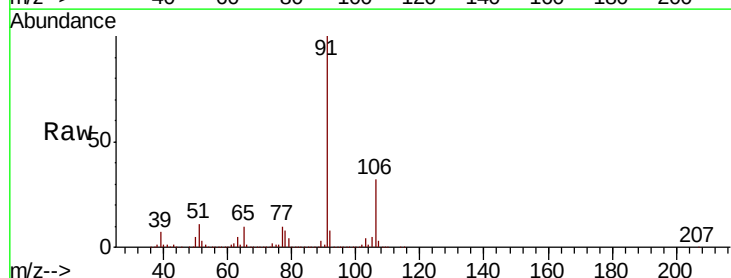
Instrument :
MSVOA_V
ClientSampleId :

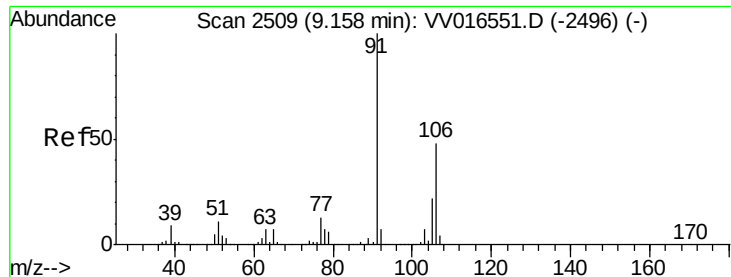
Tot Ion: 43 Resp: 21157
Ion Ratio Lower Upper
43 100
58 52.1 42.7 64.1
57 29.5 14.5 21.7#
100 11.6 9.4 14.2



#52
Ethylbenzene
Concen: 610.218 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016566.D
Acq: 06 Jun 2020 04:03

Tgt Ion: 91 Resp: 7922236
Ion Ratio Lower Upper
91 100
106 32.0 21.8 40.4





#53

m,p-Xylene

Concen: 114.650 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

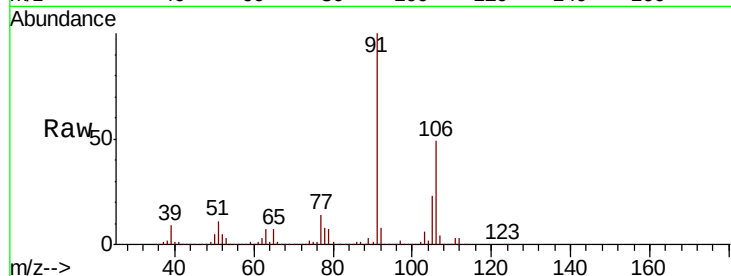
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 561249

Ion Ratio Lower Upper

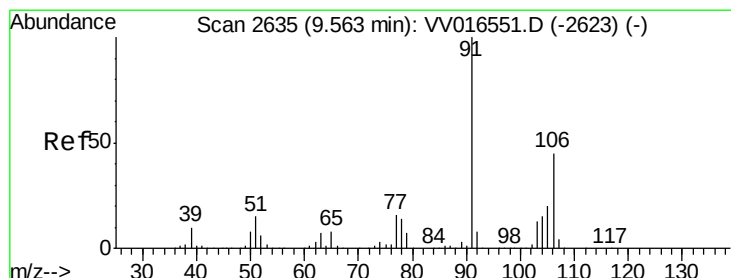
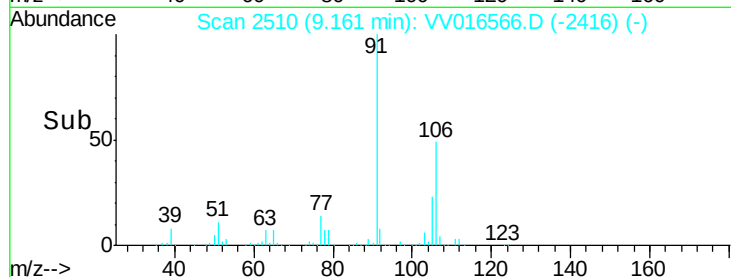
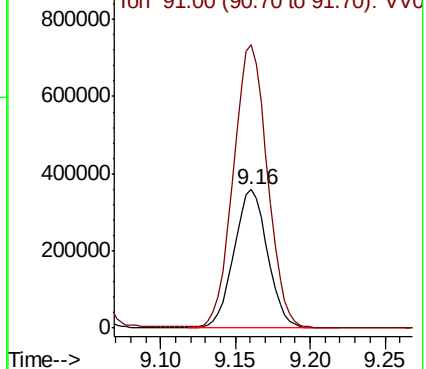
106 100

91 204.5 142.5 264.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 161.888 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016566.D

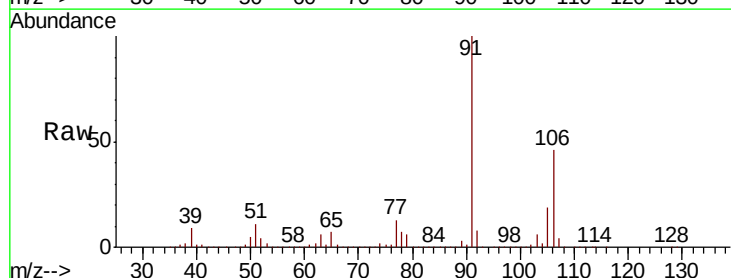
Acq: 06 Jun 2020 04:03

Tgt Ion:106 Resp: 767523

Ion Ratio Lower Upper

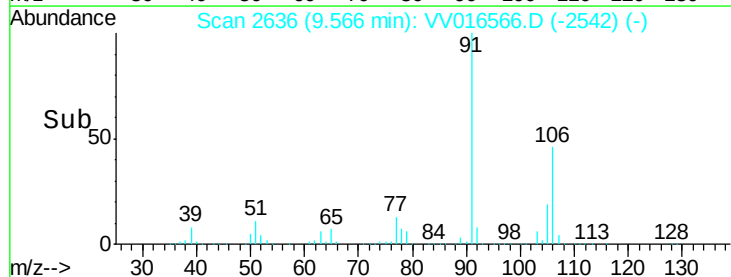
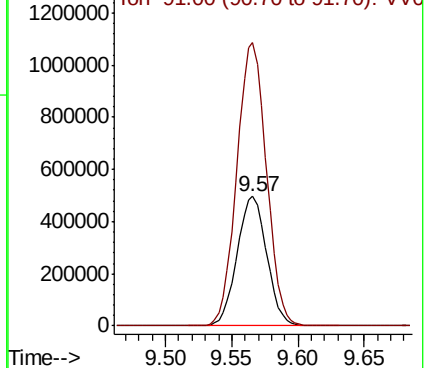
106 100

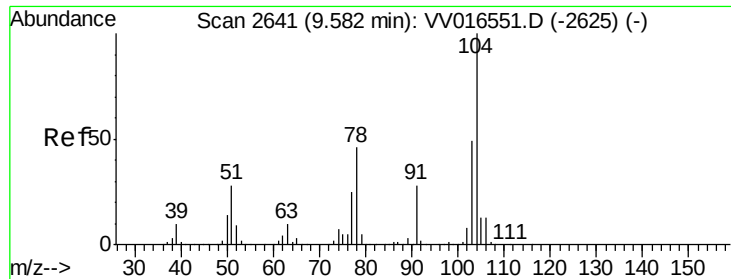
91 218.8 152.5 283.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 6.529 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. -0.01 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

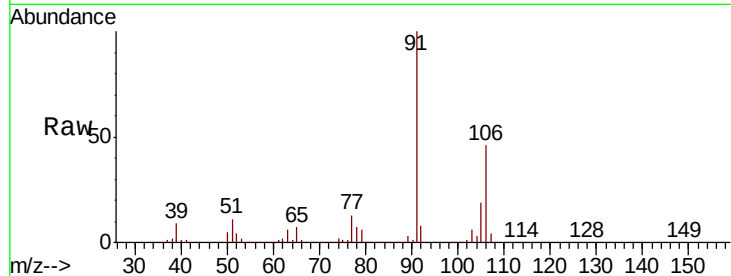
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:104 Resp: 54227

Ion Ratio Lower Upper

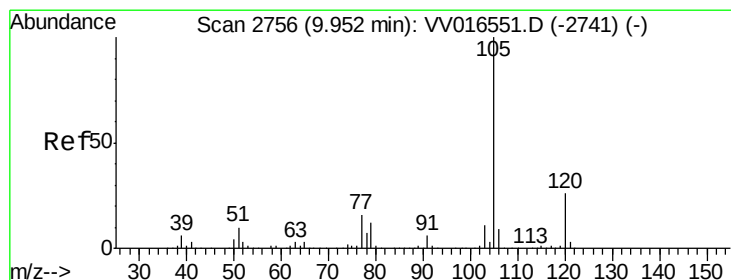
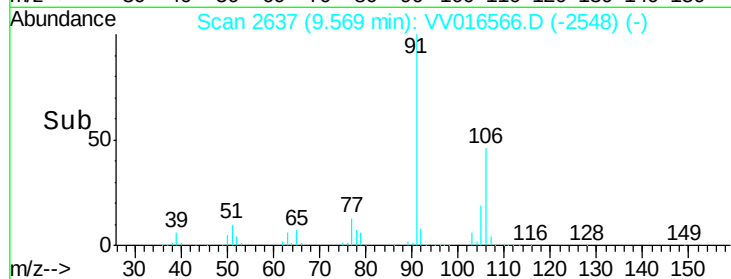
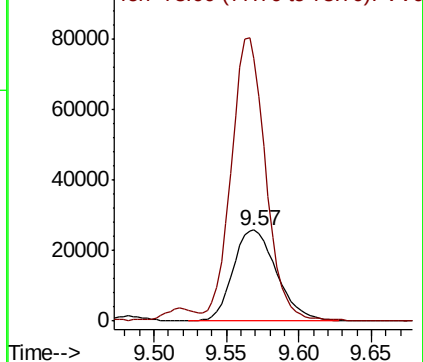
104 100

78 288.6 31.9 59.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 16.144 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

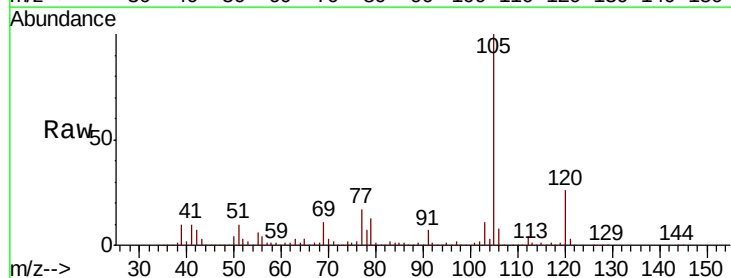
Tgt Ion:105 Resp: 198810

Ion Ratio Lower Upper

105 100

120 26.9 21.0 31.6

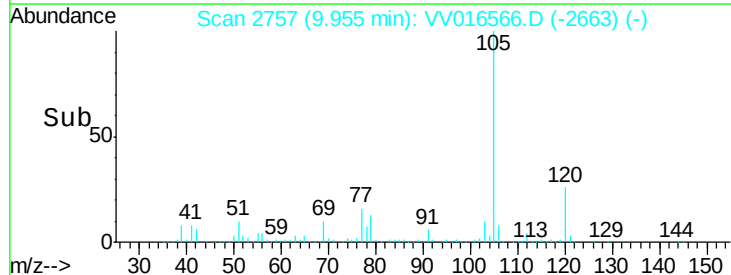
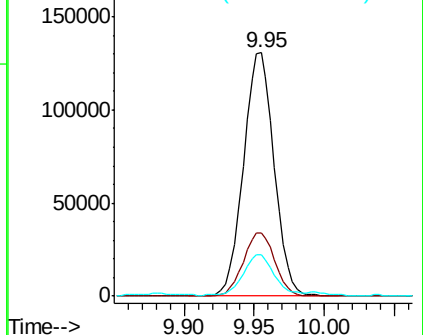
77 16.3 13.0 19.4

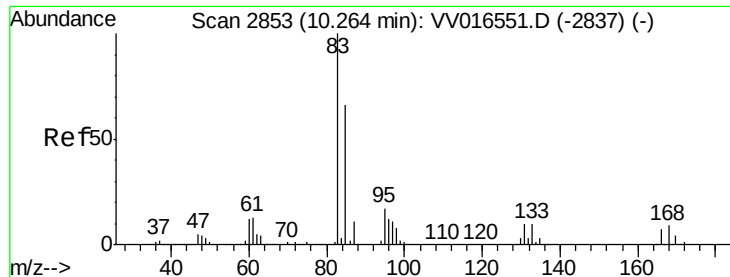


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 1.361 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.02 min

Lab File: VV016566.D

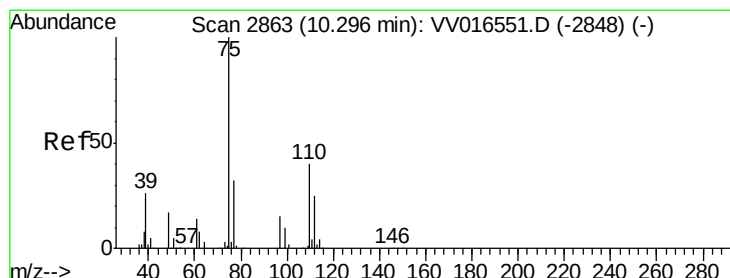
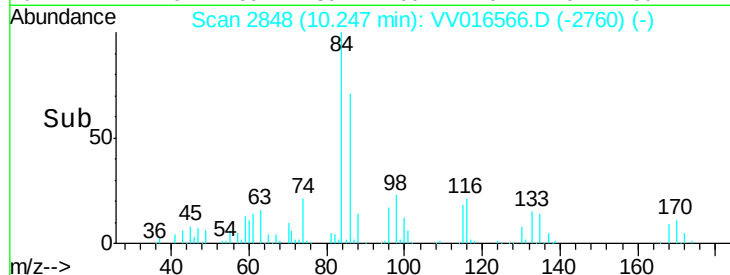
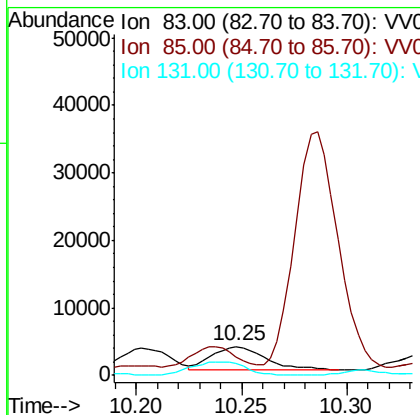
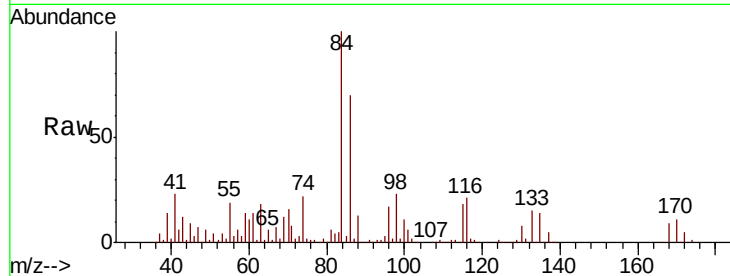
Acq: 06 Jun 2020 04:03

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:	83	Resp:	6193
Ion	Ratio	Lower	Upper
83	100		
85	62.7	44.0	81.6
131	40.5	7.6	11.4#



#59

1,2,3-Trichloropropane

Concen: 0.612 ug/L

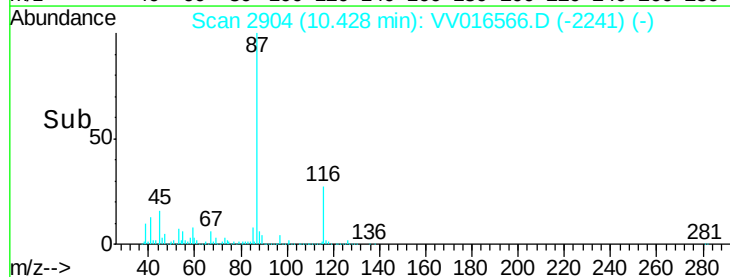
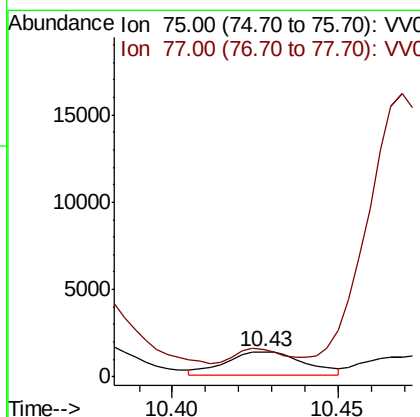
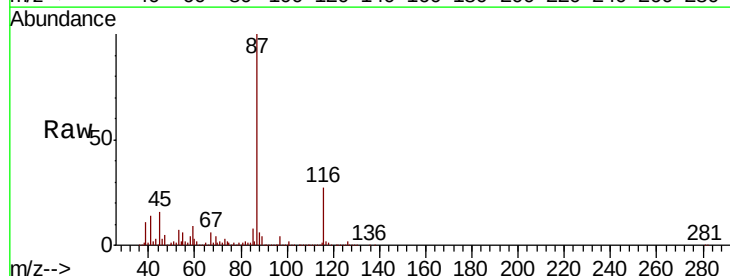
RT: 10.43 min Scan# 2904

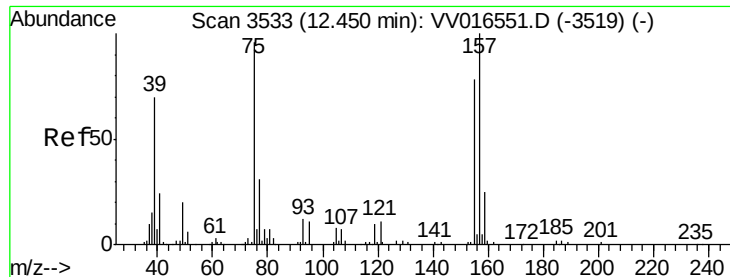
Delta R.T. 0.13 min

Lab File: VV016566.D

Acq: 06 Jun 2020 04:03

Tgt Ion:	75	Resp:	2239
Ion	Ratio	Lower	Upper
75	100		
77	39.5	26.6	40.0

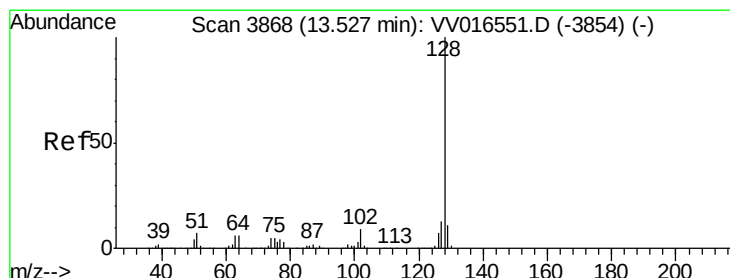
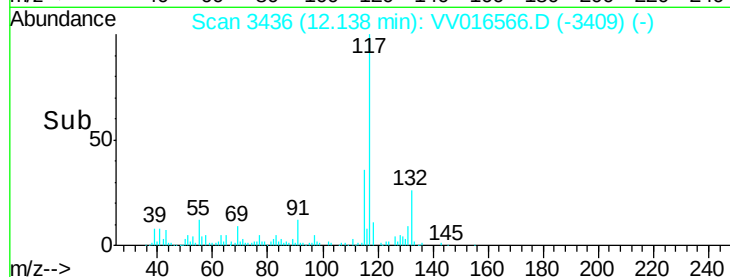
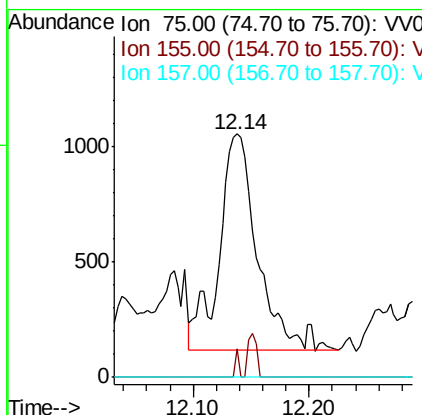
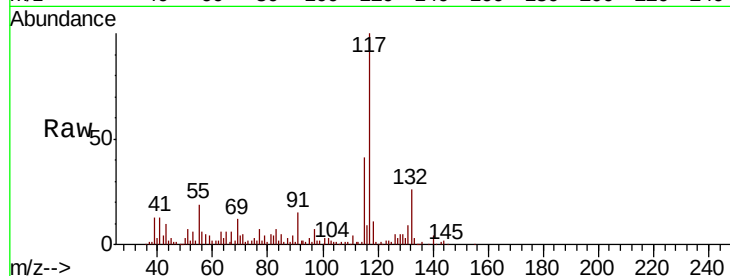




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.375 ug/L
 RT: 12.14 min Scan# 3436
 Delta R.T. -0.31 min
 Lab File: VV016566.D
 Acq: 06 Jun 2020 04:03

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 75 Resp: 2161
 Ion Ratio Lower Upper
 75 100
 155 11.5 66.2 99.2#
 157 0.0 83.0 124.4#



#69
 Naphthalene
 Concen: 38.415 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. -0.00 min
 Lab File: VV016566.D
 Acq: 06 Jun 2020 04:03

Tgt Ion: 128 Resp: 437453
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.2 15.4
 129 10.6 8.7 13.1

