

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060120\
 Data File : VV016406.D
 Acq On : 01 Jun 2020 12:54
 Operator : SY/MD
 Sample : L2826-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CWKB4

Quant Time: Jun 02 01:16:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR053020WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 02 01:13:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	118	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.12	117	41273	5.00	ug/L	0.24
61) 1,4-Dichlorobenzene-d4	11.33	152	7213	5.00	ug/L	0.06

System Monitoring Compounds

4) Vinyl Chloride-d3	0.00	65	0	0.00	ug/L	
Spiked Amount	5.000	Range	40 - 130	Recovery	=	0.00%#
7) Chloroethane-d5	0.00	69	0	0.00	ug/L	
Spiked Amount	5.000	Range	65 - 130	Recovery	=	0.00%#
11) 1,1-Dichloroethene-d2	2.24	63	779	43.12	ug/L	0.12
Spiked Amount	5.000	Range	60 - 125	Recovery	=	862.40%#
20) 2-Butanone-d5	4.01	46	354	158.82	ug/L	0.07
Spiked Amount	50.000	Range	40 - 130	Recovery	=	317.64%#
24) Chloroform-d	4.38	84	128	7.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	146.40%#
26) 1,2-Dichloroethane-d4	5.08	65	116	12.75	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	255.00%#
32) Benzene-d6	5.09	84	265	0.02	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	0.40%#
36) 1,2-Dichloropropane-d6	6.11	67	438	0.12	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	2.40%#
41) Toluene-d8	0.00	98	0	0.00	ug/L	
Spiked Amount	5.000	Range	70 - 130	Recovery	=	0.00%#
45) trans-1,3-Dichloropropene-	7.55	79	10915	8.35	ug/L	-0.09
Spiked Amount	5.000	Range	55 - 130	Recovery	=	167.00%#
48) 2-Hexanone-d5	0.00	63	0	0.00	ug/L	
Spiked Amount	50.000	Range	45 - 130	Recovery	=	0.00%#
59) 1,1,2,2-Tetrachloroethane-	10.33	84	10147	3.96	ug/L	0.10
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.20%
65) 1,2-Dichlorobenzene-d4	11.69	152	5949	4.44	ug/L	0.05
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.80%

Target Compounds

					Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	399	49.924	ug/L 96
12) 1,1-Dichloroethene	2.27	96	3898	513.264	ug/L # 73
13) Acetone	2.41	43	2657	1772.152	ug/L 68
14) Carbon disulfide	2.33	76	383	16.584	ug/L # 1
15) Methyl Acetate	2.50	43	7683	2042.057	ug/L # 62
16) Methylene chloride	2.51	84	374	46.036	ug/L 91
17) Methyl tert-butyl Ether	2.78	73	126	7.083	ug/L # 2
18) trans-1,2-Dichloroethene	2.78	96	139	17.244	ug/L 80
19) 1,1-Dichloroethane	3.20	63	537	33.770	ug/L # 1
21) 2-Butanone	4.05	43	173072	78282.304	ug/L # 53
22) cis-1,2-Dichloroethene	4.05	96	170	19.107	ug/L 87
23) Bromochloromethane	4.28	128	148	42.625	ug/L # 52
25) Chloroform	4.44	83	181	11.357	ug/L 91
27) 1,2-Dichloroethane	5.15	62	249	23.692	ug/L # 33
30) Cyclohexane	4.69	56	10433	1.992	ug/L # 20
35) Methylcyclohexane	6.11	83	623	0.121	ug/L 92
38) Bromodichloromethane	6.52	83	154	0.041	ug/L # 25

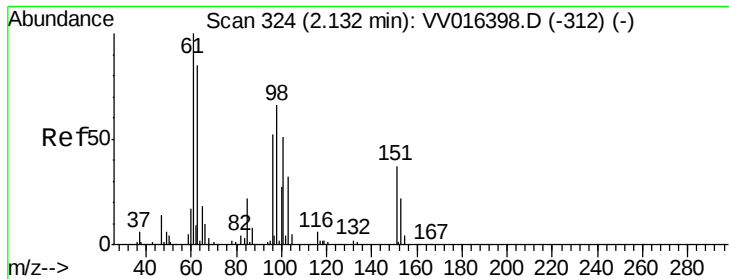
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060120\
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 QLast Update : Tue Jun 02 01:13:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.06	75	5981	1.465	ug/L #	62
40) 4-Methyl-2-pentanone	7.24	43	14029	7.518	ug/L #	67
44) 1,2,4-Trimethylbenzene	10.99	105	3198	0.272	ug/L #	32
46) trans-1,3-Dichloropropene	7.72	75	198	0.059	ug/L	91
47) 1,1,2-Trichloroethane	7.83	97	3022	1.529	ug/L #	1
50) 2-Hexanone	8.17	43	5830	4.479	ug/L #	1
54) Ethylbenzene	9.13	91	4042	0.282	ug/L #	44
67) 1,2-Dibromo-3-chloropropan	12.36	75	66	0.490	ug/L #	9
70) Naphthalene	13.54	128	13603	4.136	ug/L	99

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



#10

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

Concen: 49.924 ug/L

RT: 2.37 min Scan# 398

Delta R.T. 0.24 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Instrument :

MSVOA_V

ClientSampled :

CWKB4

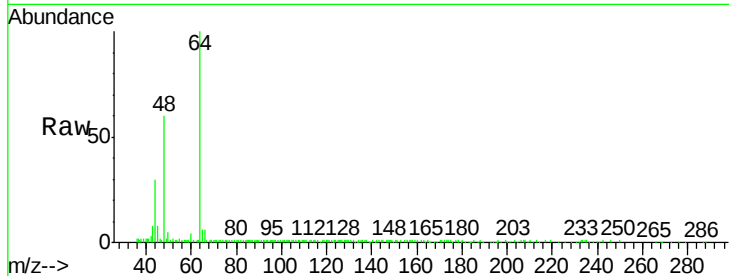
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Ion Ratio Lower Upper

101 100

85 49.6 35.7 53.5

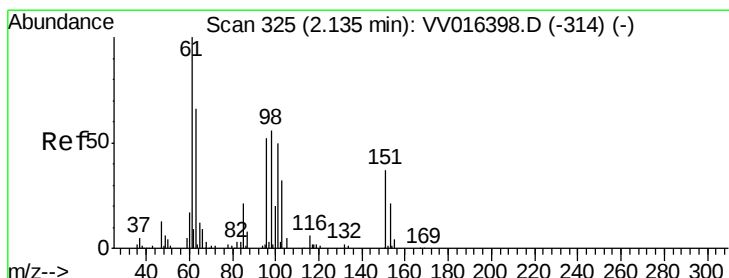
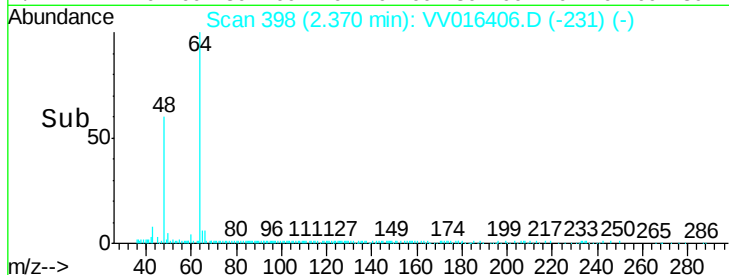
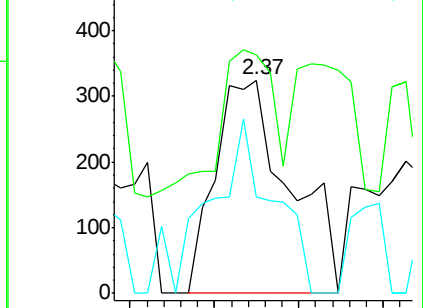
151 70.4 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 513.264 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.14 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

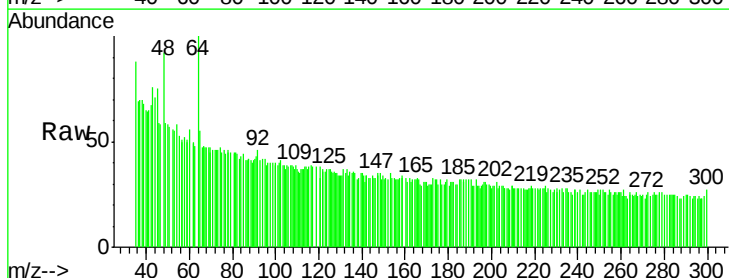
Tgt Ion: 96 Resp: 3898

Ion Ratio Lower Upper

96 100

61 120.4 125.4 233.0#

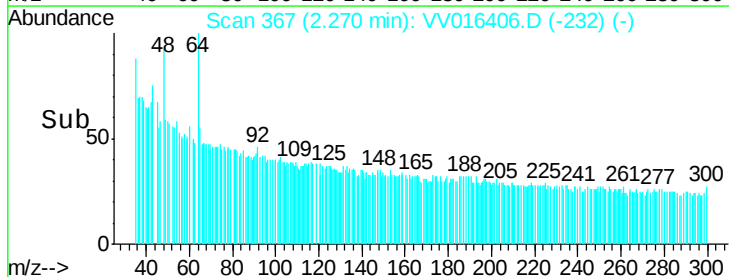
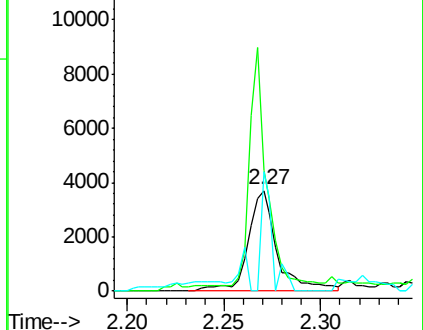
63 119.3 88.2 163.8

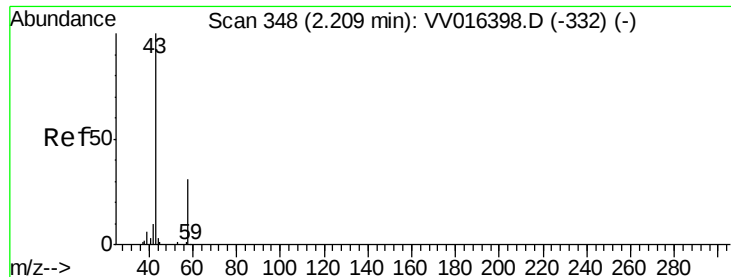


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1772.152 ug/L

RT: 2.41 min Scan# 411

Delta R.T. 0.20 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Instrument :

MSVOA_V

ClientSampleId :

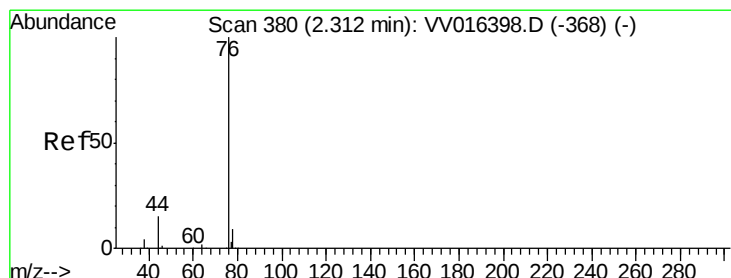
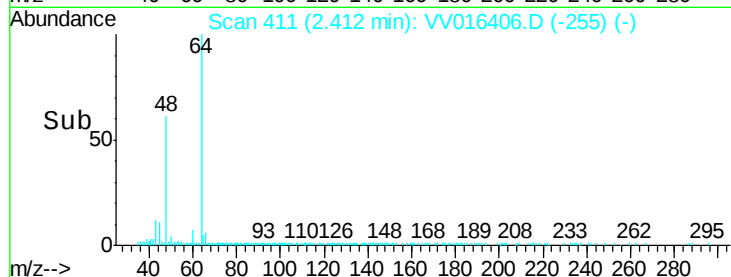
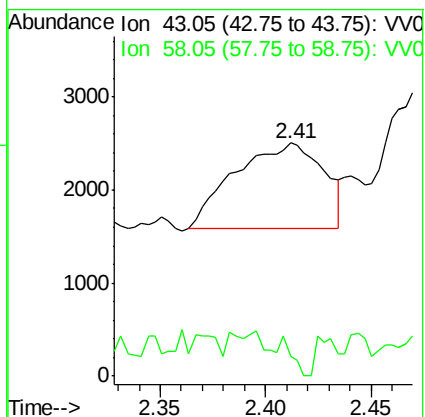
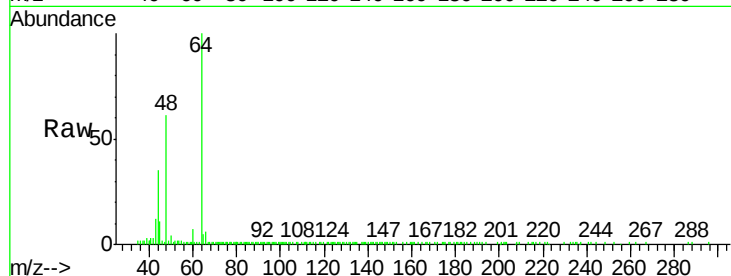
CWKB4

Tot Ion: 43 Resp: 2657

Ion Ratio Lower Upper

43 100

58 12.2 0.0 59.2



#14

Carbon disulfide

Concen: 16.584 ug/L

RT: 2.33 min Scan# 385

Delta R.T. 0.02 min

Lab File: VV016406.D

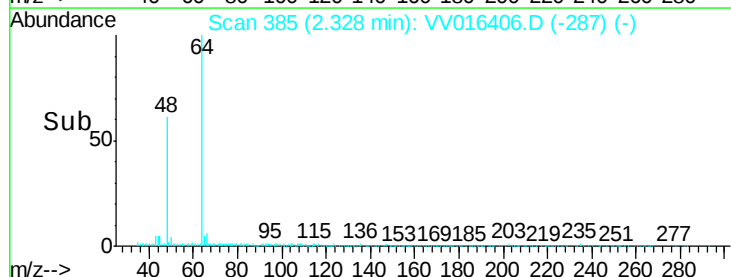
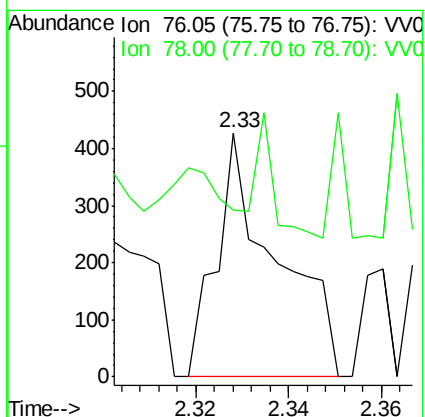
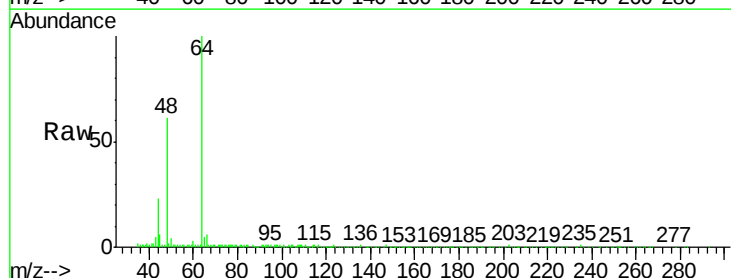
Acq: 01 Jun 2020 12:54

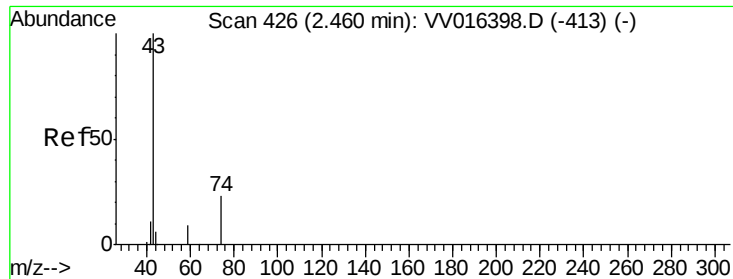
Tgt Ion: 76 Resp: 383

Ion Ratio Lower Upper

76 100

78 68.6 6.8 10.2#

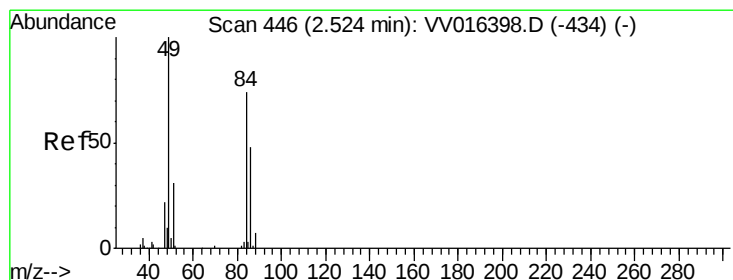
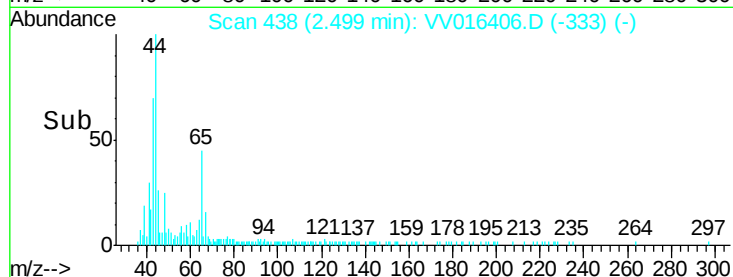
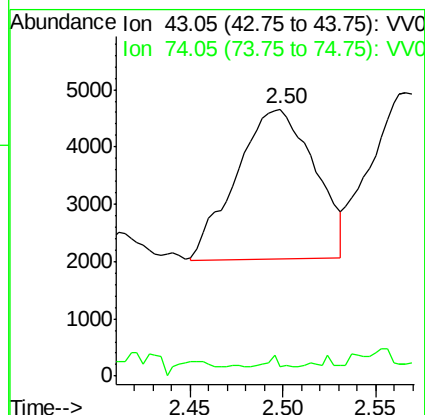
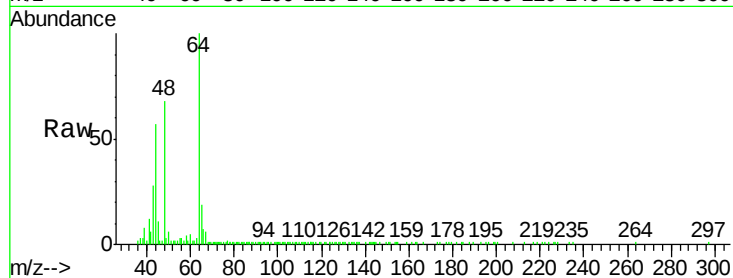




#15
Methyl Acetate
Concen: 2042.057 ug/L
RT: 2.50 min Scan# 438
Delta R.T. 0.04 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

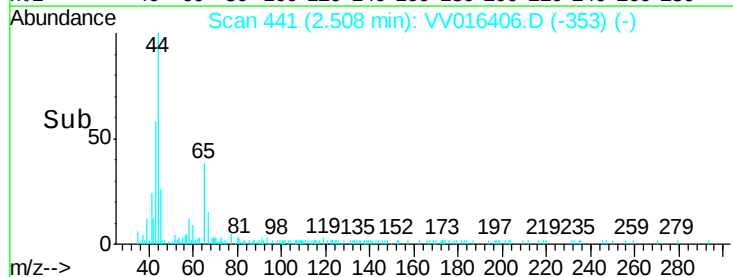
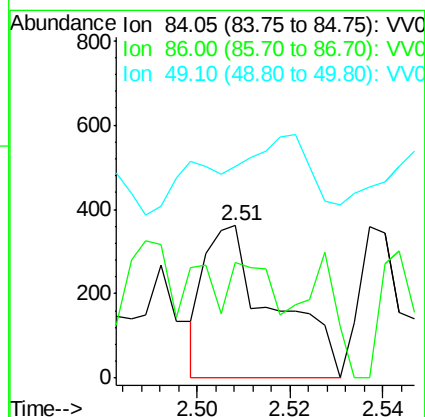
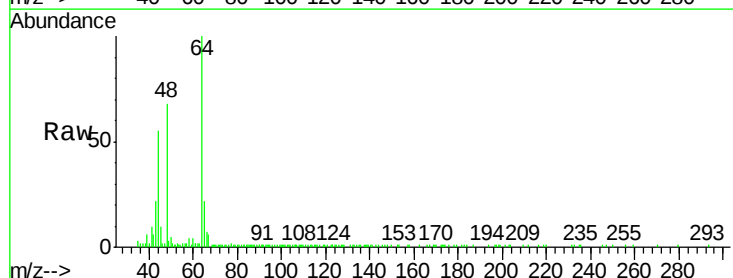
Instrument :
MSVOA_V
ClientSampled :
CWKB4

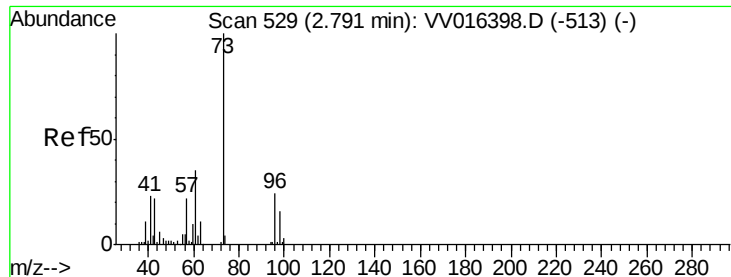
Tot Ion: 43 Resp: 7683
Ion Ratio Lower Upper
43 100
74 4.7 18.6 28.0#



#16
Methylene chloride
Concen: 46.036 ug/L
RT: 2.51 min Scan# 441
Delta R.T. -0.02 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Tgt Ion: 84 Resp: 374
Ion Ratio Lower Upper
84 100
86 76.2 44.5 82.7
49 139.1 92.3 171.3

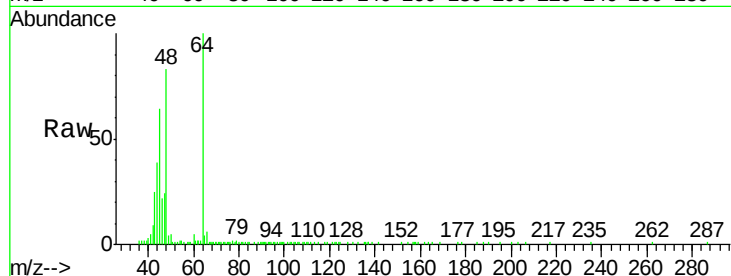




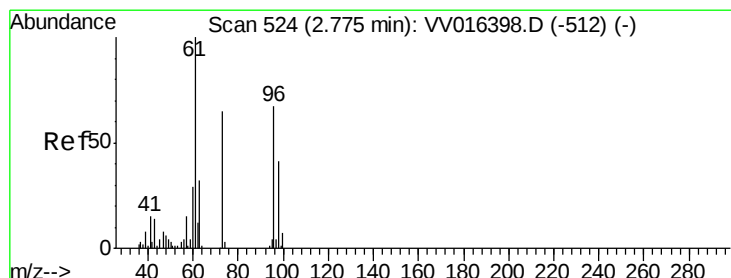
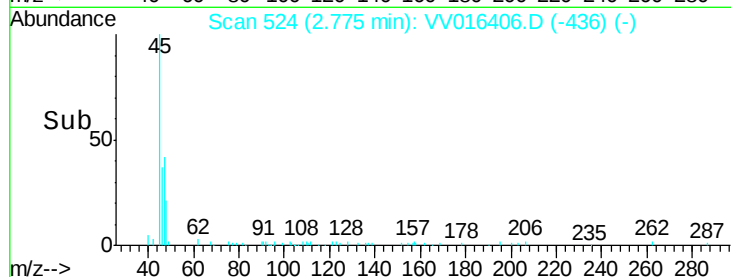
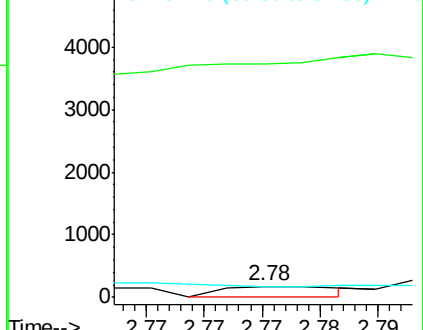
#17
Methvl tert-butvl Ether
Concen: 7.083 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.02 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Instrument :
MSVOA_V
ClientSampleId :
CWKB4

Tot Ion: 73 Resp: 126
Ion Ratio Lower Upper
73 100
43 0.0 19.4 29.0#
57 96.0 18.4 27.6#

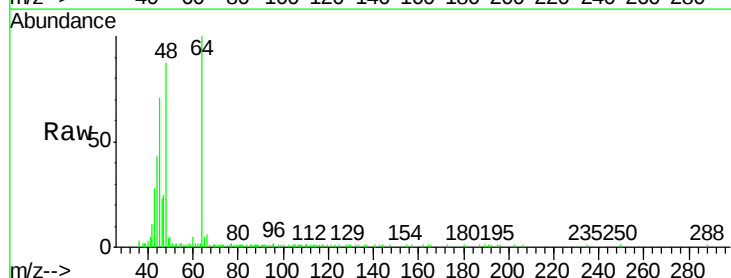


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

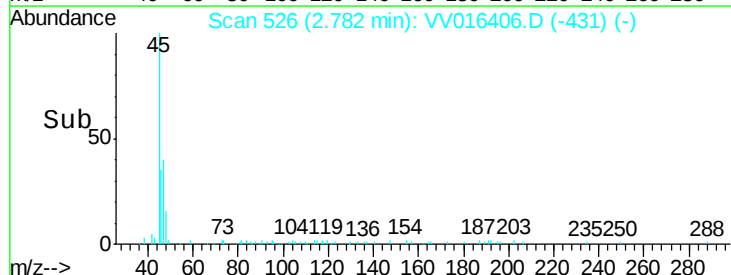
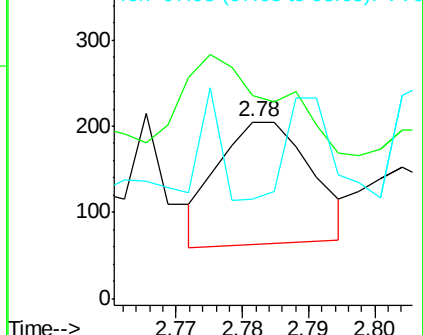


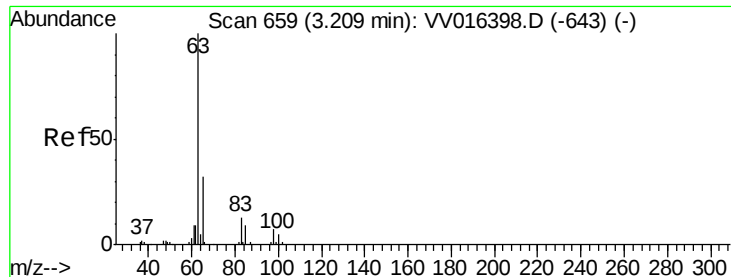
#18
trans-1,2-Dichloroethene
Concen: 17.244 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.01 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Tgt Ion: 96 Resp: 139
Ion Ratio Lower Upper
96 100
61 114.6 103.1 191.5
98 56.1 43.0 79.8



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





#19

1,1-Dichloroethane

Concen: 33.770 ug/L

RT: 3.20 min Scan# 655

Delta R.T. -0.01 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Instrument :

MSVOA_V

ClientSampleId :

CWKB4

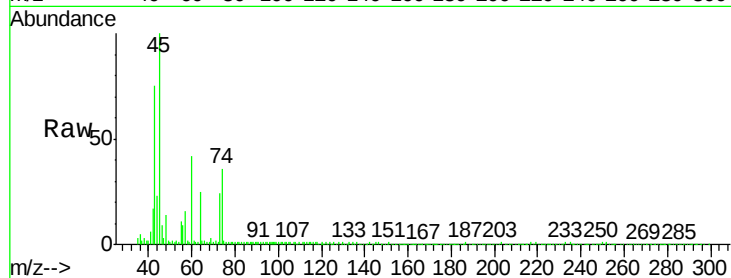
Tot Ion: 63 Resp: 537

Ion Ratio Lower Upper

63 100

65 190.5 23.3 43.3#

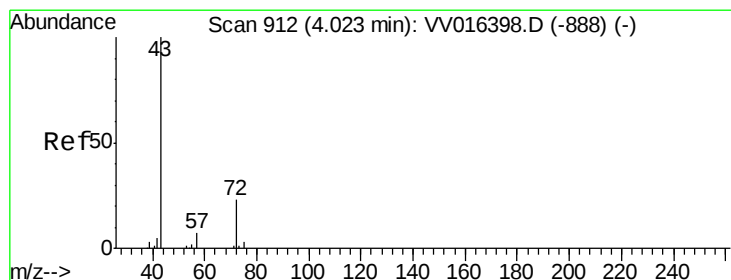
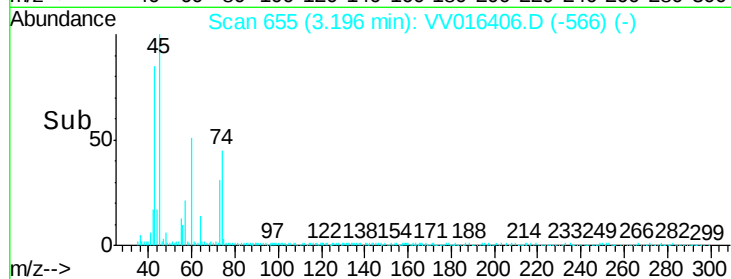
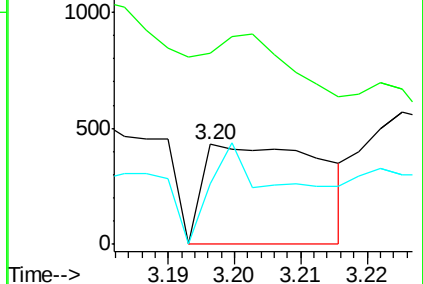
83 60.6 9.9 18.3#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 78282.304 ug/L

RT: 4.05 min Scan# 920

Delta R.T. 0.03 min

Lab File: VV016406.D

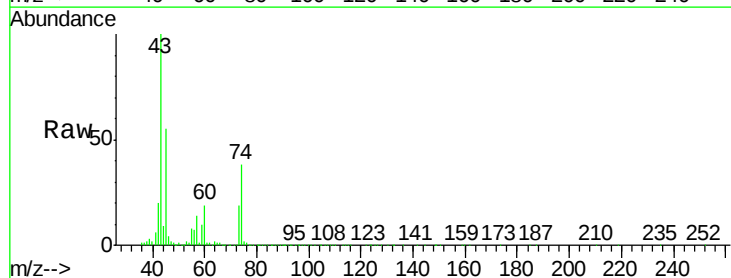
Acq: 01 Jun 2020 12:54

Tgt Ion: 43 Resp: 173072

Ion Ratio Lower Upper

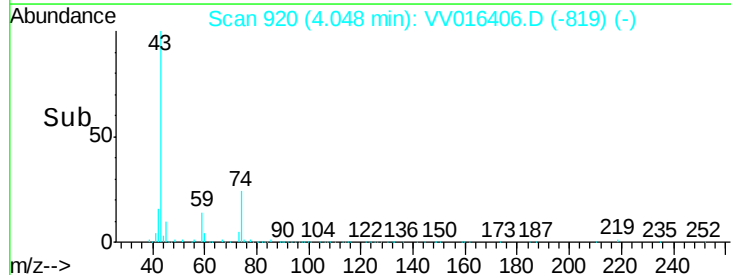
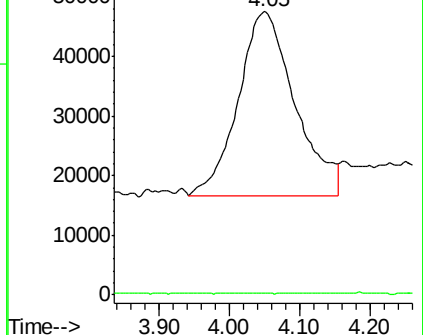
43 100

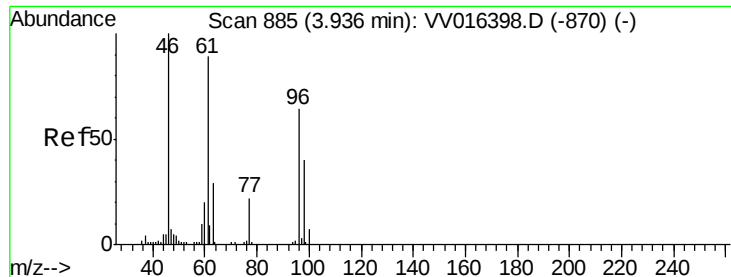
72 0.0 11.2 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



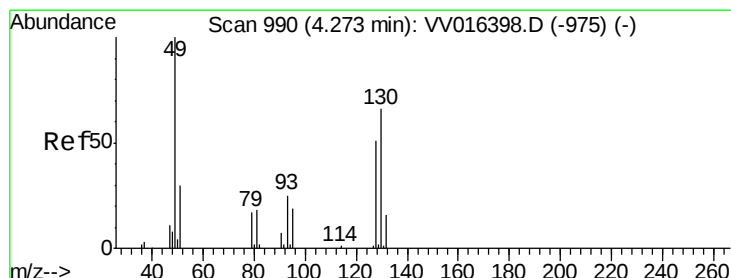
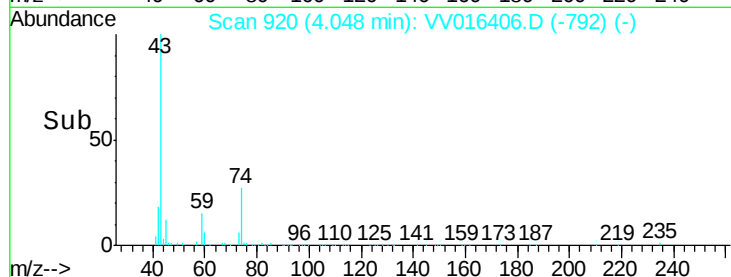
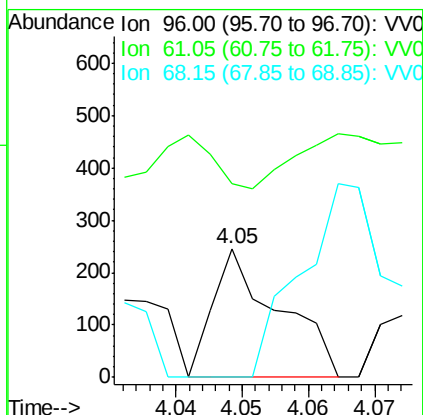
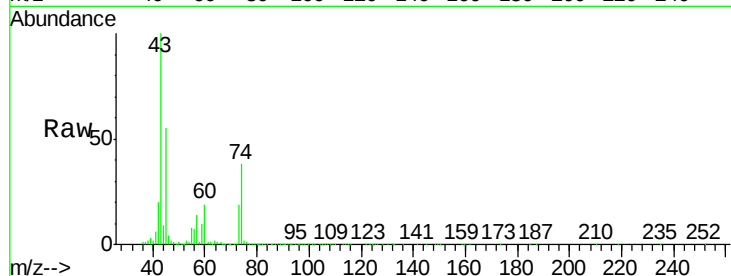


#22

cis-1,2-Dichloroethene
Concen: 19.107 ug/L
RT: 4.05 min Scan# 920
Delta R.T. 0.11 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Instrument :
MSVOA_V
ClientSampleId :
CWKB4

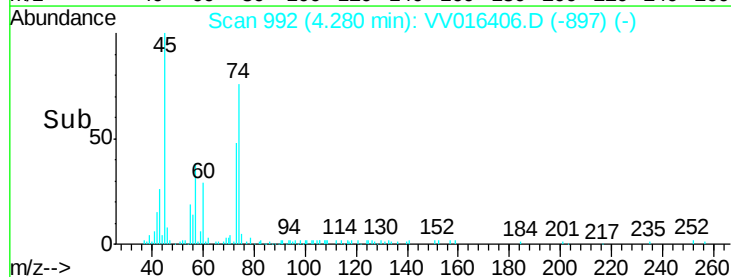
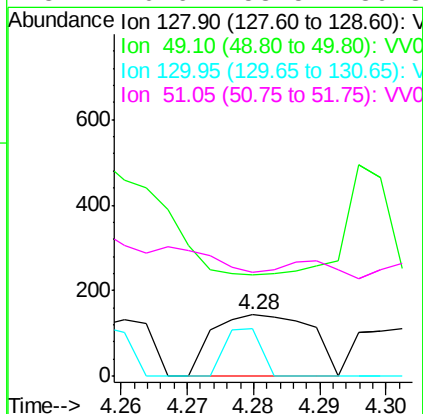
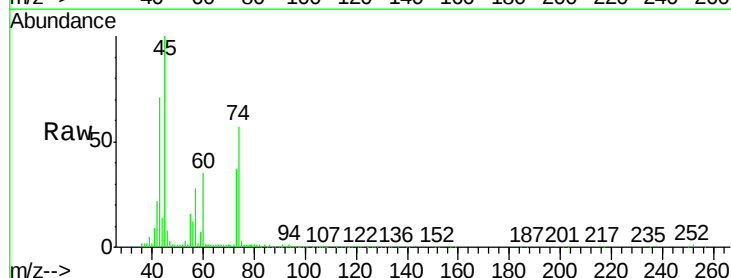
Tot Ion: 96 Resp: 170
Ion Ratio Lower Upper
96 100
61 150.4 94.8 176.0
68 0.0 0.0 0.0

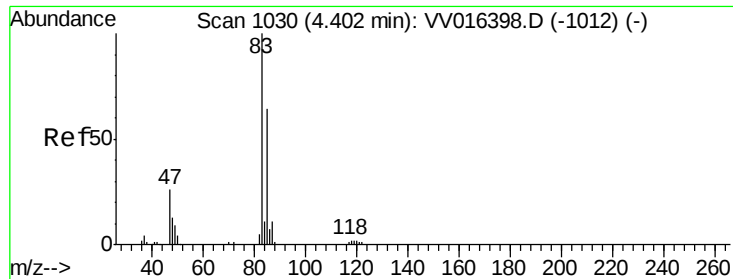


#23

Bromochloromethane
Concen: 42.625 ug/L
RT: 4.28 min Scan# 992
Delta R.T. 0.01 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Tgt Ion: 128 Resp: 148
Ion Ratio Lower Upper
128 100
49 165.7 141.5 262.9
130 77.6 90.4 167.8#
51 170.6 53.5 80.3#

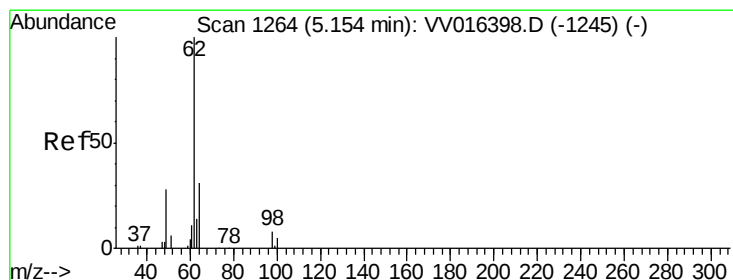
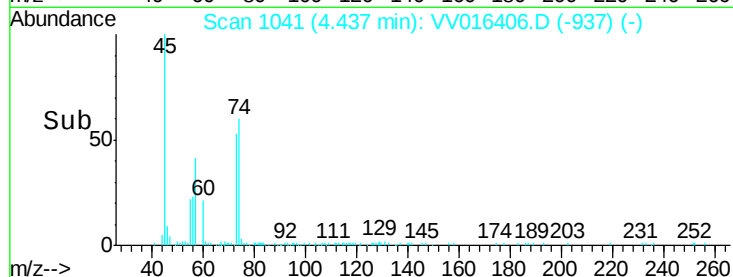
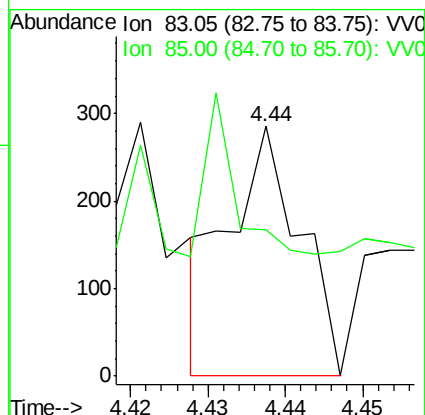
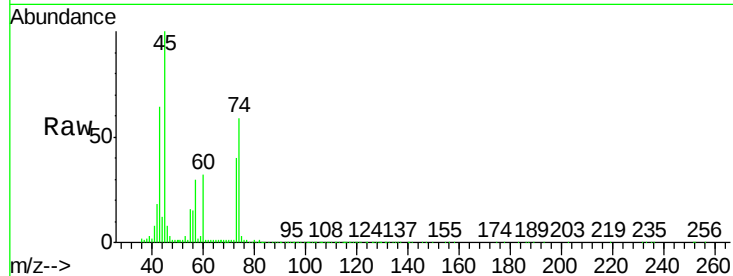




#25
Chloroform
Concen: 11.357 ug/L
RT: 4.44 min Scan# 1041
Delta R.T. 0.04 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

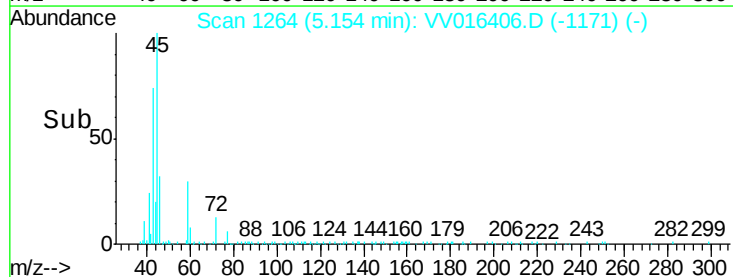
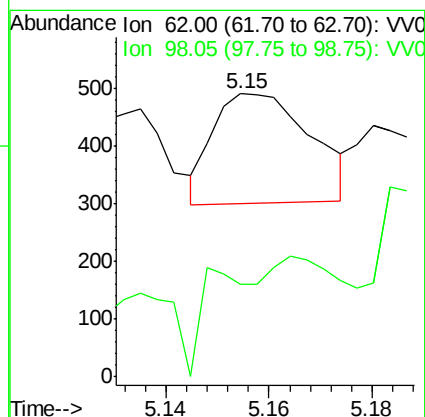
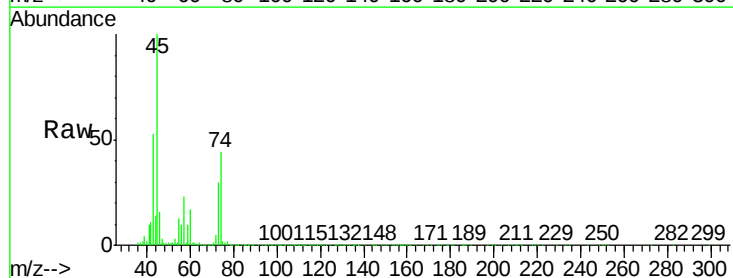
Instrument :
MSVOA_V
ClientSampled :
CWKB4

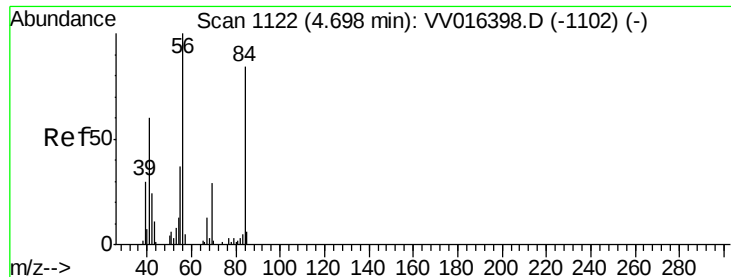
Tot Ion: 83 Resp: 181
Ion Ratio Lower Upper
83 100
85 58.6 45.8 85.2



#27
1,2-Dichloroethane
Concen: 23.692 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Tgt Ion: 62 Resp: 249
Ion Ratio Lower Upper
62 100
98 32.7 7.0 10.4#

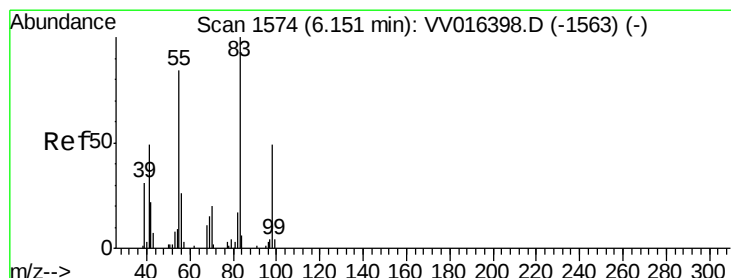
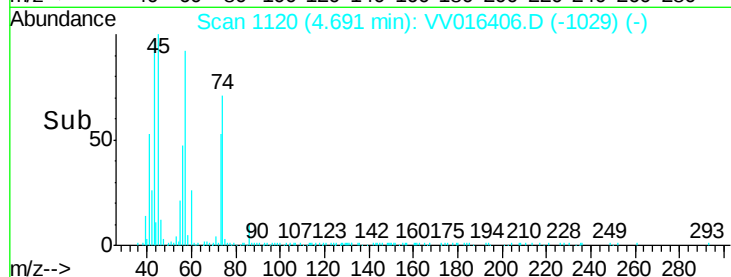
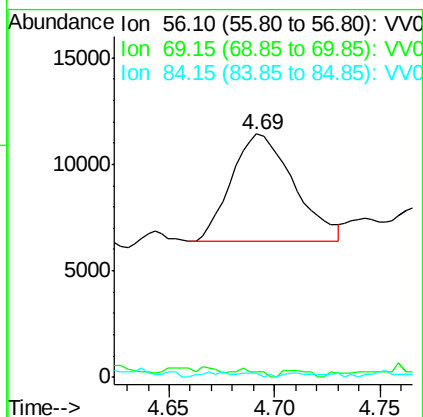
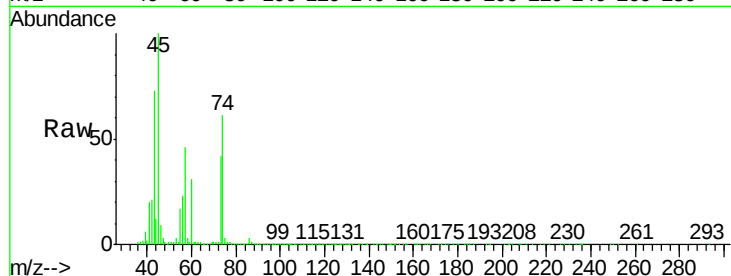




#30
Cyclohexane
Concen: 1.992 ug/L
RT: 4.69 min Scan# 1120
Delta R.T. -0.01 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

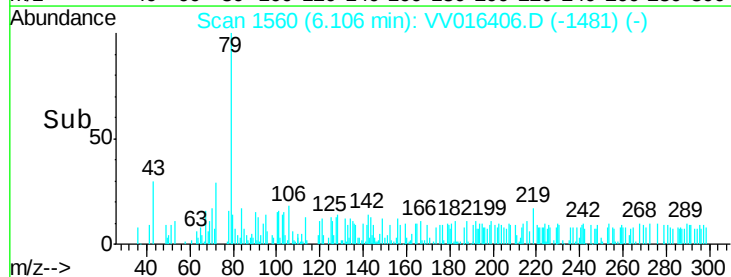
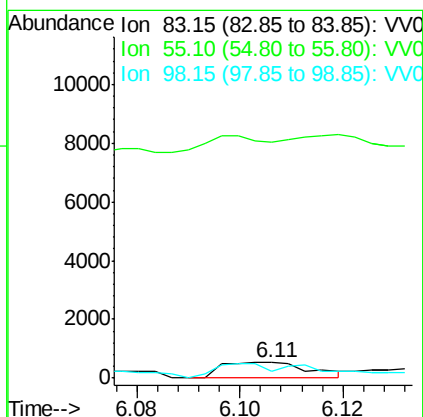
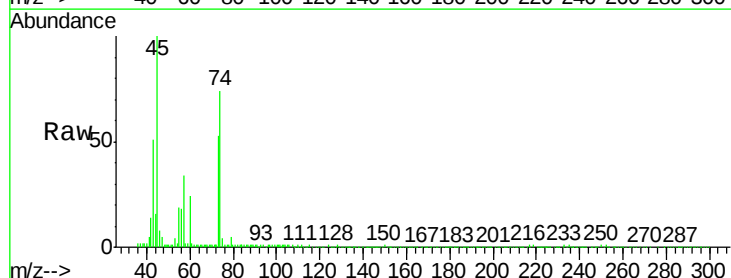
Instrument :
MSVOA_V
ClientSampleId :
CWKB4

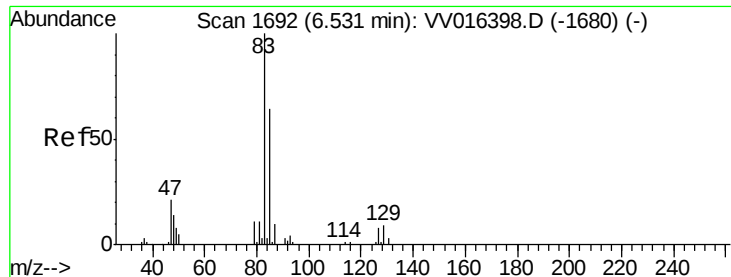
Tot Ion	56	Resp	10433
Ion Ratio	Lower	Upper	
56	100		
69	2.9	23.5	35.3#
84	1.2	65.8	98.8#



#35
Methylcyclohexane
Concen: 0.121 ug/L
RT: 6.11 min Scan# 1560
Delta R.T. -0.04 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Tgt Ion	83	Resp	623
Ion Ratio	Lower	Upper	
83	100		
55	90.2	67.0	100.4
98	55.5	39.0	58.4





#38

Bromodichloromethane

Concen: 0.041 ug/L

RT: 6.52 min Scan# 1690

Delta R.T. -0.01 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Instrument :

MSVOA_V

ClientSampled :

CWKB4

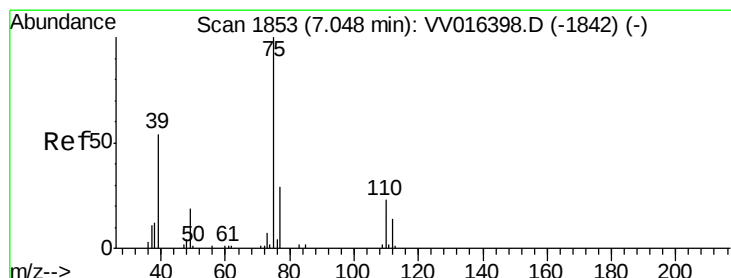
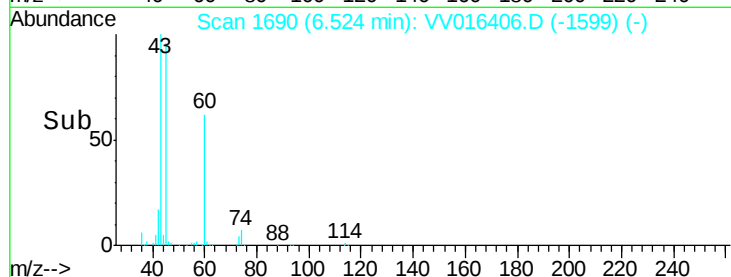
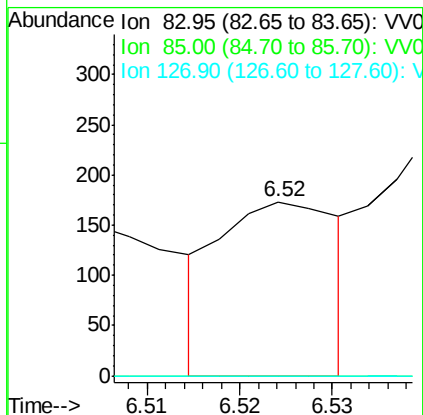
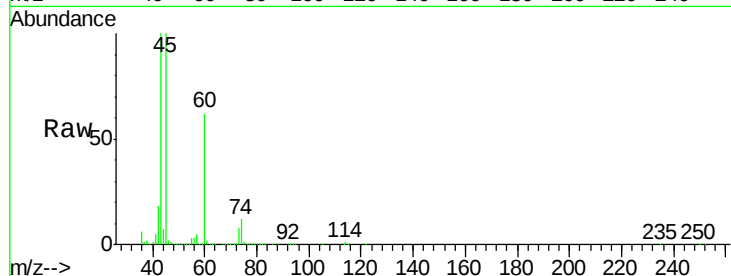
Tot Ion: 83 Resp: 154

Ion Ratio Lower Upper

83 100

85 0.0 44.2 82.2#

127 0.0 6.3 9.5#



#39

cis-1,3-Dichloropropene

Concen: 1.465 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. 0.02 min

Lab File: VV016406.D

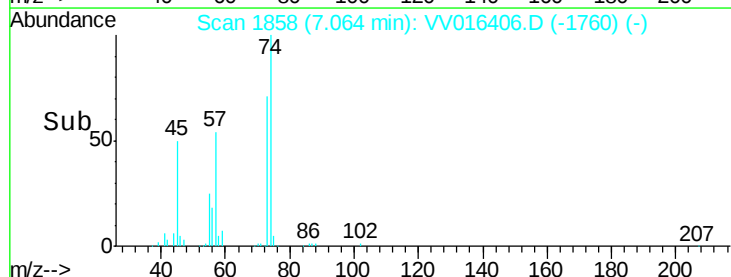
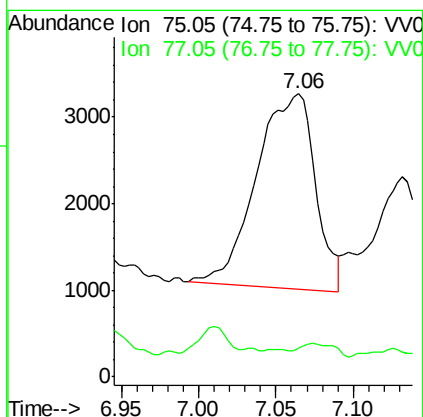
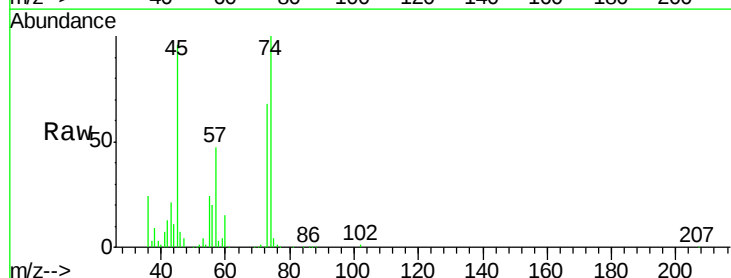
Acq: 01 Jun 2020 12:54

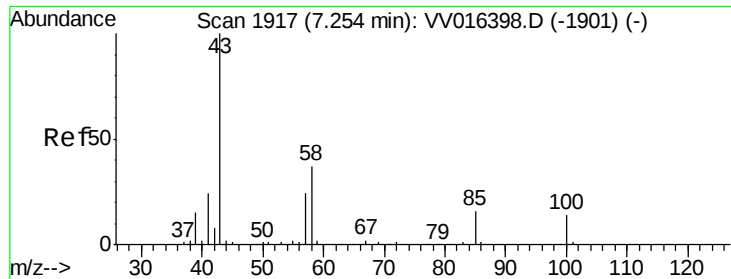
Tgt Ion: 75 Resp: 5981

Ion Ratio Lower Upper

75 100

77 10.2 22.0 41.0#





#40

4-Methyl-2-pentanone

Concen: 7.518 ug/L

RT: 7.24 min Scan# 1914

Delta R.T. -0.01 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Instrument :

MSVOA_V

ClientSampled :

CWKB4

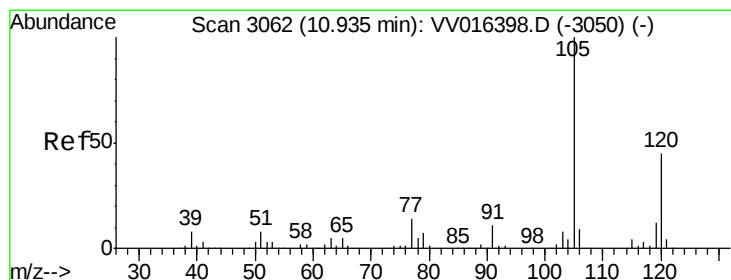
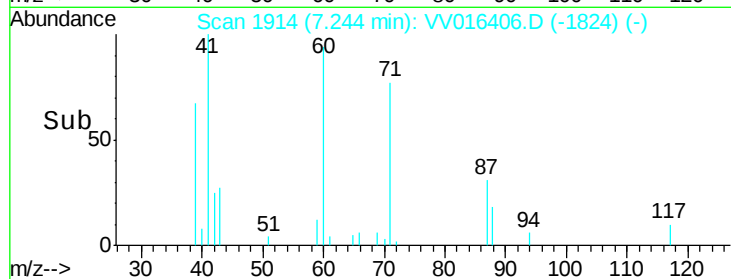
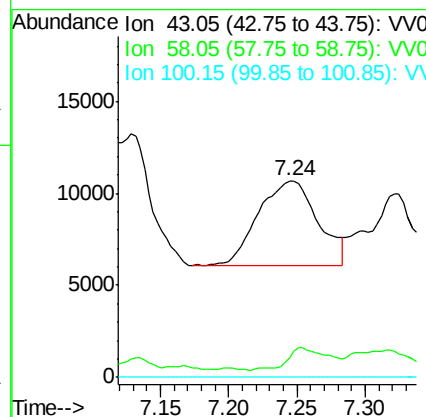
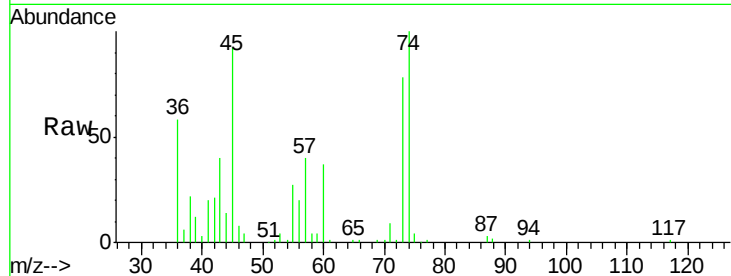
Tot Ion: 43 Resp: 14029

Ion Ratio Lower Upper

43 100

58 17.5 29.5 44.3#

100 0.0 11.0 16.6#



#44

1,2,4-Trimethylbenzene

Concen: 0.272 ug/L

RT: 10.99 min Scan# 3080

Delta R.T. 0.06 min

Lab File: VV016406.D

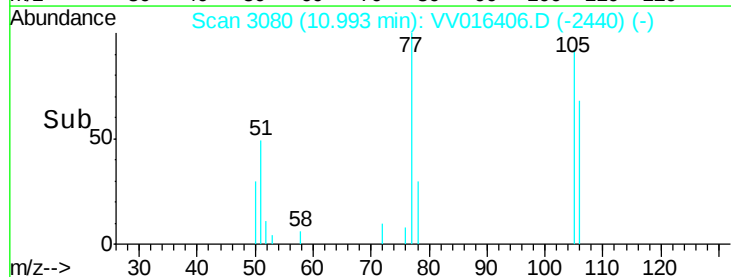
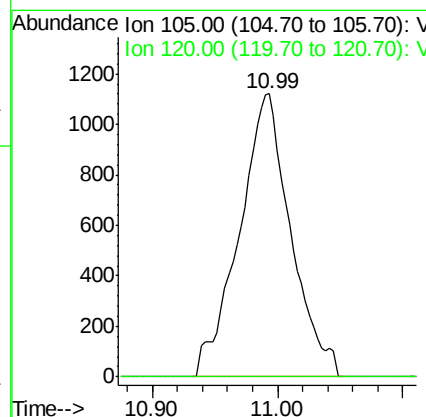
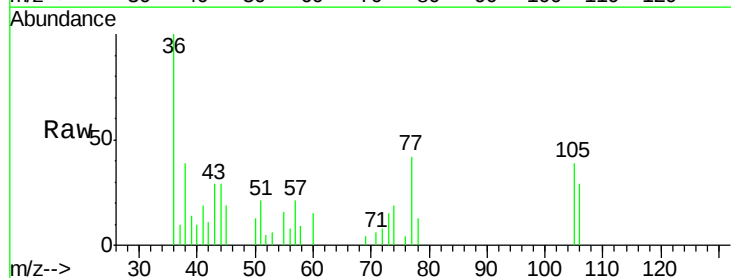
Acq: 01 Jun 2020 12:54

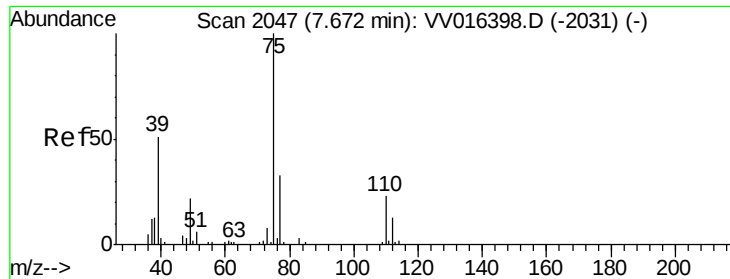
Tgt Ion: 105 Resp: 3198

Ion Ratio Lower Upper

105 100

120 0.0 35.5 53.3#





#46

trans-1,3-Dichloropropene

Concen: 0.059 ug/L

RT: 7.72 min Scan# 2061

Delta R.T. 0.05 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Instrument :

MSVOA_V

ClientSampleId :

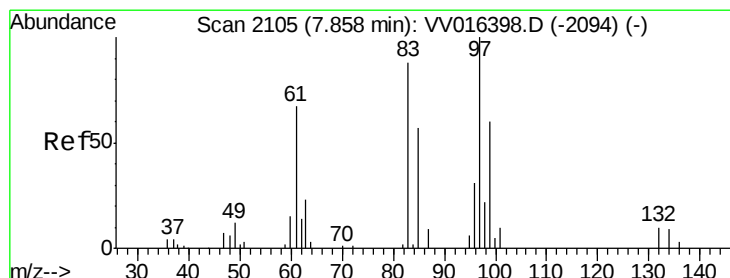
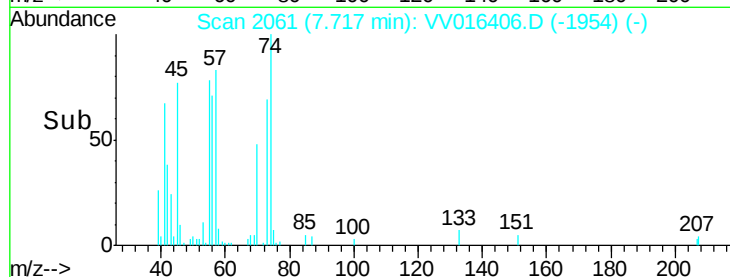
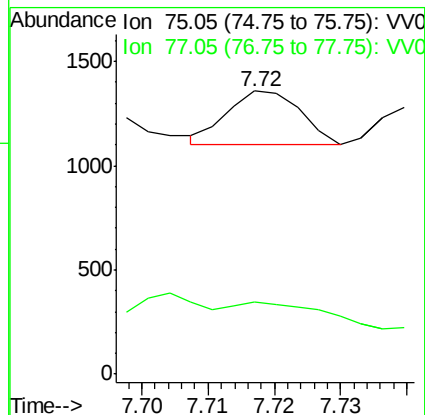
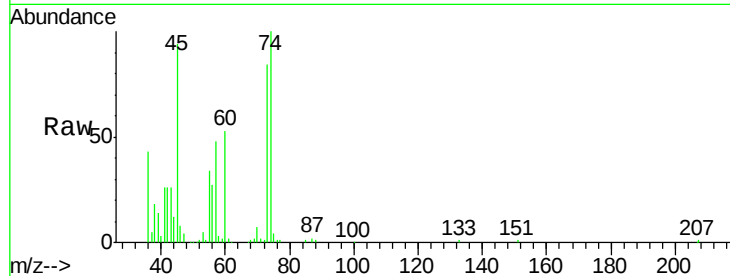
CWKB4

Tot Ion: 75 Resp: 198

Ion Ratio Lower Upper

75 100

77 25.5 21.1 39.3



#47

1,1,2-Trichloroethane

Concen: 1.529 ug/L

RT: 7.83 min Scan# 2095

Delta R.T. -0.03 min

Lab File: VV016406.D

Acq: 01 Jun 2020 12:54

Tgt Ion: 97 Resp: 3022

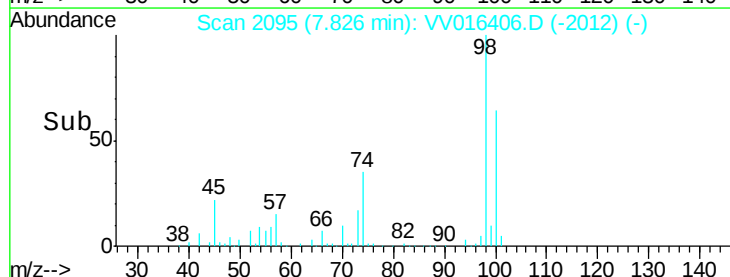
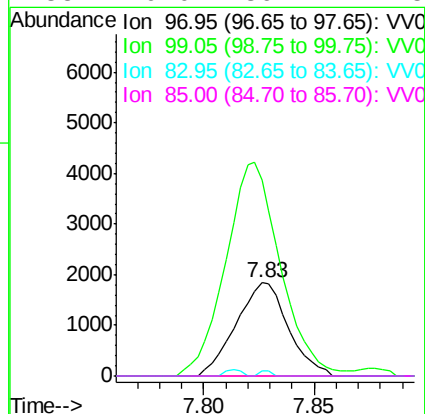
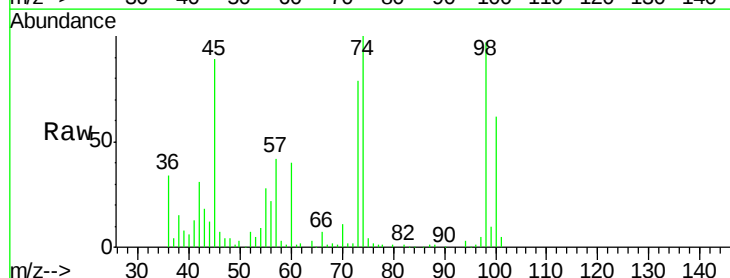
Ion Ratio Lower Upper

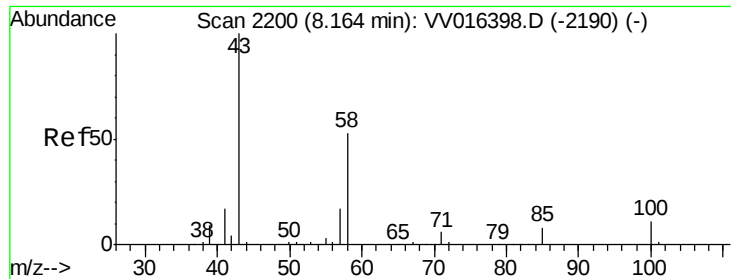
97 100

99 210.4 47.0 87.2#

83 5.7 61.7 114.5#

85 0.0 39.1 72.5#

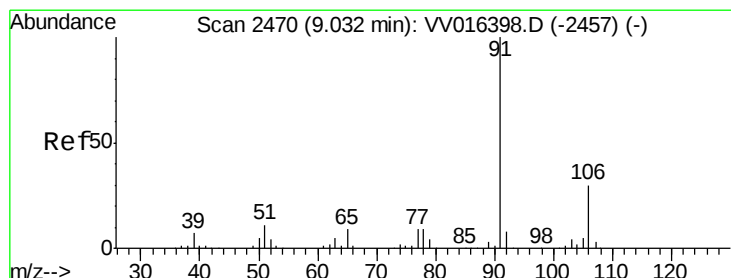
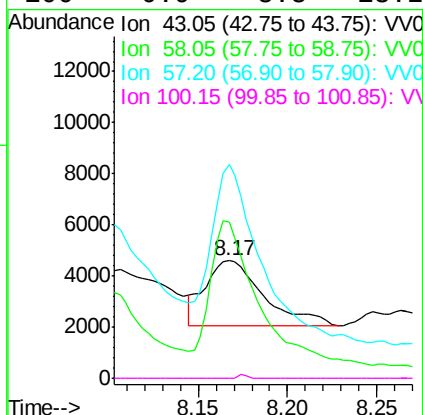
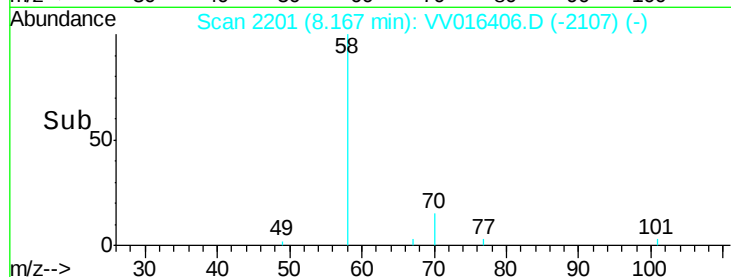
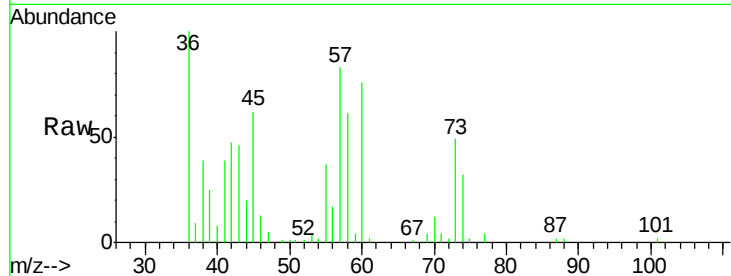




#50
2-Hexanone
Concen: 4.479 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

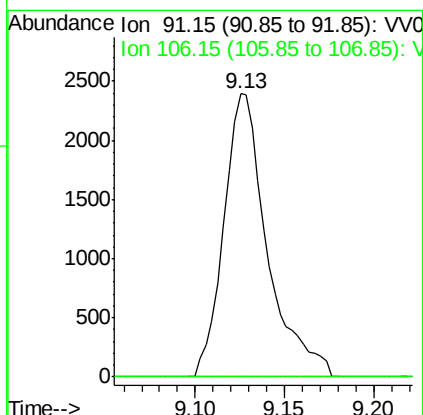
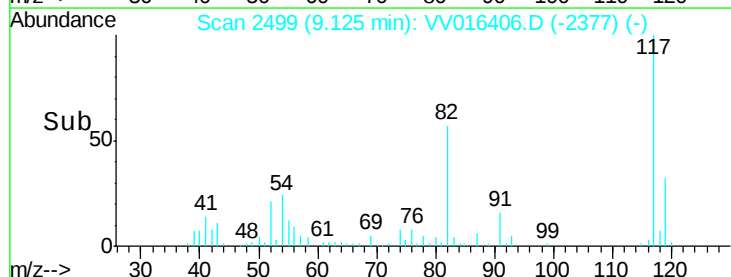
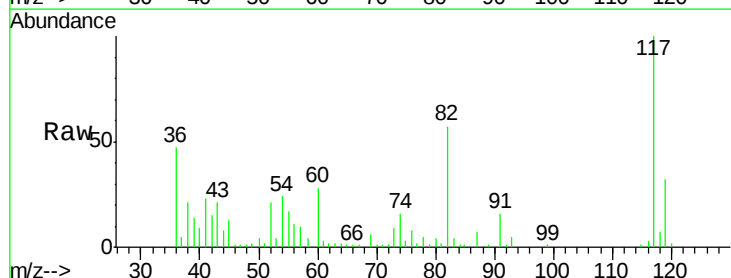
Instrument :
MSVOA_V
ClientSampleId :
CWKB4

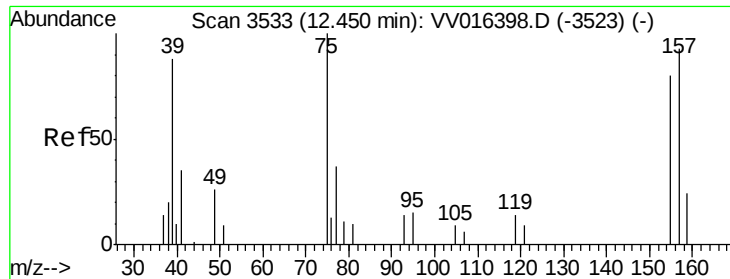
Tot Ion: 43 Resp: 5830
Ion Ratio Lower Upper
43 100
58 184.1 41.1 61.7#
57 235.3 14.2 21.4#
100 0.9 8.8 13.2#



#54
Ethylbenzene
Concen: 0.282 ug/L
RT: 9.13 min Scan# 2499
Delta R.T. 0.09 min
Lab File: VV016406.D
Acq: 01 Jun 2020 12:54

Tgt Ion: 91 Resp: 4042
Ion Ratio Lower Upper
91 100
106 0.0 21.4 39.8#

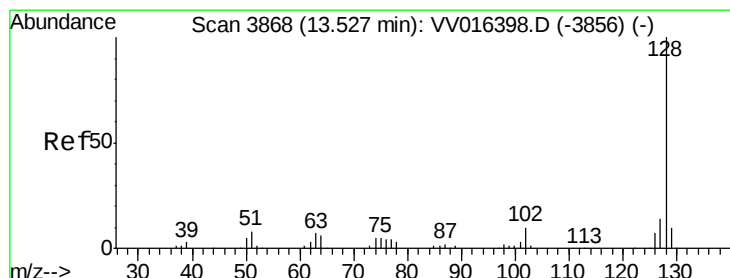
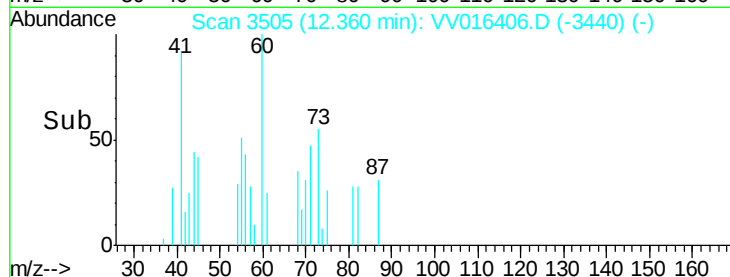
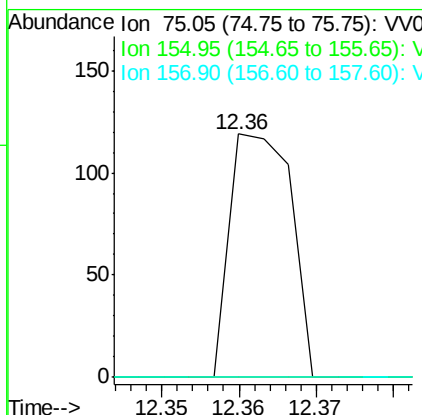
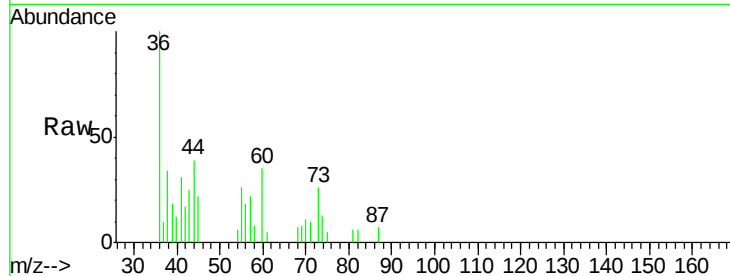




#67
 1,2-Dibromo-3-chloropropane
 Concen: 0.490 ug/L
 RT: 12.36 min Scan# 3505
 Delta R.T. -0.09 min
 Lab File: VV016406.D
 Acq: 01 Jun 2020 12:54

Instrument :
 MSVOA_V
 ClientSampleId :
 CWKB4

Tot Ion: 75 Resp: 66
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.1 87.1#
 157 0.0 71.0 106.4#



#70
 Naphthalene
 Concen: 4.136 ug/L
 RT: 13.54 min Scan# 3871
 Delta R.T. 0.01 min
 Lab File: VV016406.D
 Acq: 01 Jun 2020 12:54

Tgt Ion: 128 Resp: 13603
 Ion Ratio Lower Upper
 128 100
 129 11.4 8.6 12.8
 127 13.8 10.7 16.1

