

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111519\
 Data File : VW014040.D
 Acq On : 15 Nov 2019 14:54
 Operator : SY/VA
 Sample : K5811-03
 Misc : 4.26G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 16 04:08:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Nov 16 04:05:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	281887	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	195861	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	52966	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	107615	23.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.72%
7) Chloroethane-d5	2.89	69	94972	26.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.20%
10) 1,1-Dichloroethene-d2	4.02	63	154940	16.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.16%
20) 2-Butanone-d5	7.07	46	81943	62.72	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.44%
24) Chloroform-d	7.65	84	224034	25.85	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.40%
26) 1,2-Dichloroethane-d4	8.30	65	129115	29.63	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	118.52%
29) Benzene-d6	8.27	84	457912	32.95	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	131.80%
33) 1,2-Dichloropropane-d6	9.27	67	141354	34.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	138.88%#
37) Toluene-d8	10.32	98	343763	26.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.36%
38) trans-1,3-Dichloropropene-	10.57	79	54343	31.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	124.68%
39) 2-Hexanone-d5	10.92	63	57747	74.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	149.62%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	82566	26.86	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.44%
61) 1,2-Dichlorobenzene-d4	13.85	152	47372	22.26	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.04%

Target Compounds

					Ovalue
13) Acetone	4.12	43	10219	7.686	ug/L 94
14) Carbon disulfide	4.38	76	7414	0.547	ug/L 96
16) Methylene chloride	4.92	84	10250	1.889	ug/L 96
18) trans-1,2-Dichloroethene	5.42	96	38459	7.750	ug/L 97
21) 2-Butanone	7.13	43	3685	2.157	ug/L # 1
22) cis-1,2-Dichloroethene	7.17	96	4779270	915.241	ug/L 98
25) Chloroform	7.67	83	4393	0.535	ug/L # 67
34) Benzene	8.32	78	9355	0.651	ug/L 100
35) Trichloroethene	9.09	95	3186752	831.558	ug/L 99
36) Methylcyclohexane	9.34	83	3603	0.524	ug/L # 88
42) cis-1,3-Dichloropropene	10.04	75	3219	0.590	ug/L # 68
44) Toluene	10.38	91	42629	2.722	ug/L 97
46) 1,1,2-Trichloroethane	10.76	97	7043	2.772	ug/L # 20
47) Tetrachloroethene	10.86	164	1571857	460.172	ug/L 97
49) 2-Hexanone	10.93	43	9885	6.005	ug/L # 49
53) Ethylbenzene	11.73	91	111257	6.473	ug/L 99
54) m,p-Xylene	11.84	106	195657	29.291	ug/L 97

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MSVOA_W
ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
Quant Title : VOC Analysis
QLast Update : Sat Nov 16 04:05:25 2019
Response via : Initial Calibration

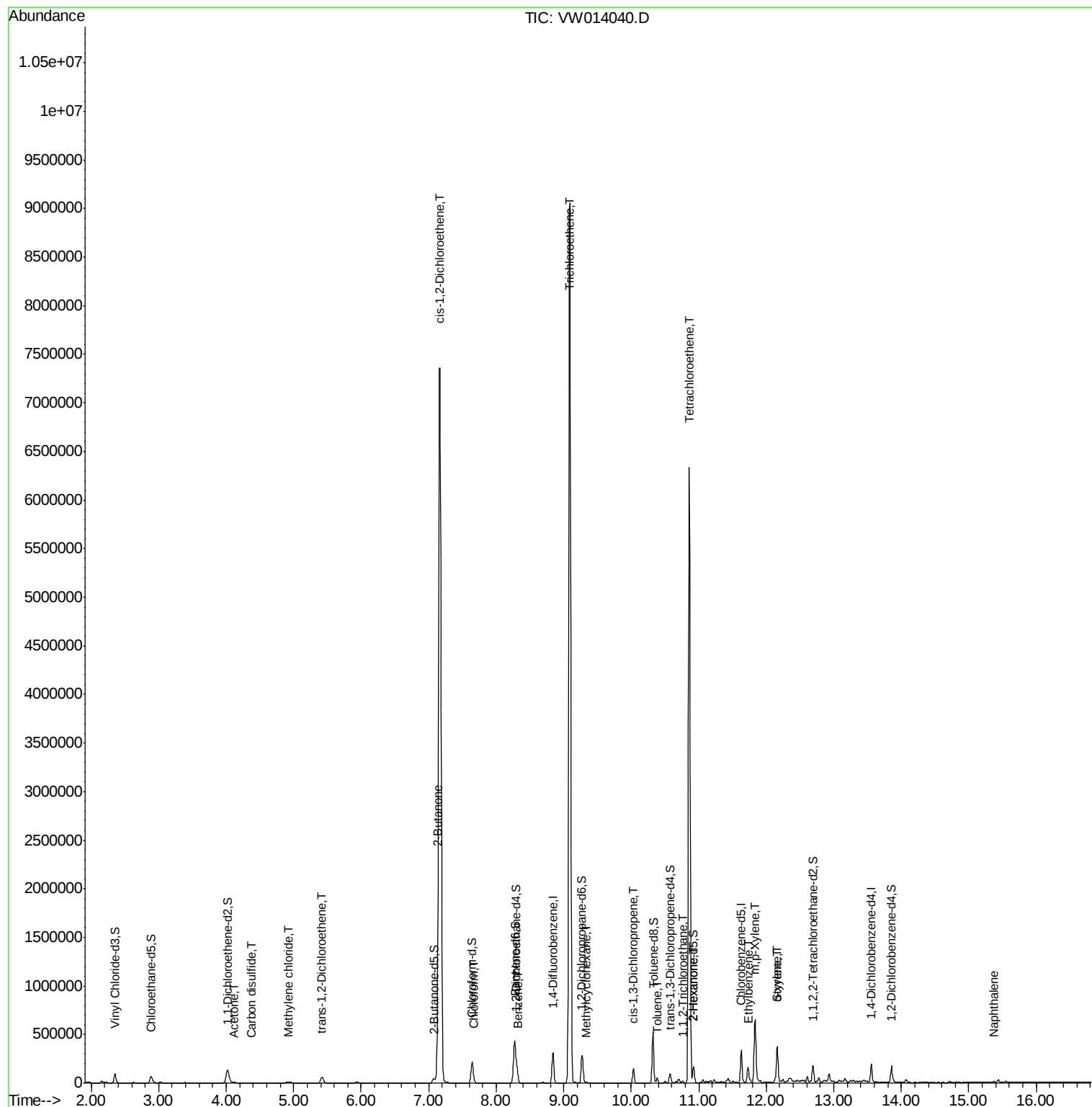
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.16	106	102450	16.379	uq/L	94
56) Styrene	12.16	104	6133	0.580	uq/L #	1
69) Naphthalene	15.36	128	9043	2.284	uq/L #	93

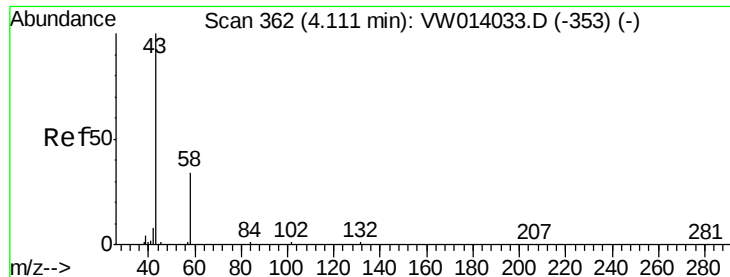
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\
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MSVOA_W
ClientSampleId :

Quant Time: Nov 16 04:08:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
Quant Title : VOC Analysis
QLast Update : Sat Nov 16 04:05:25 2019
Response via : Initial Calibration





#13

Acetone

Concen: 7.686 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.01 min

Lab File: VW014040.D

Acq: 15 Nov 2019 14:54

Instrument :

MSVOA_W

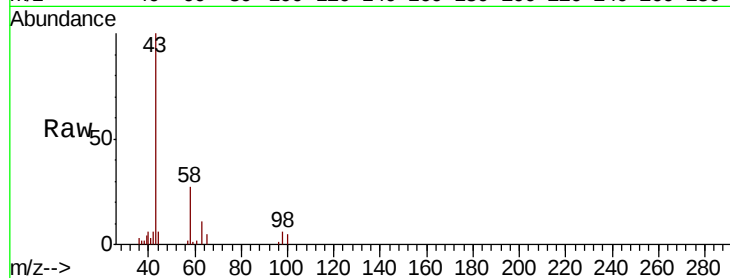
ClientSampleId :

Tot Ion: 43 Resp: 10219

Ion Ratio Lower Upper

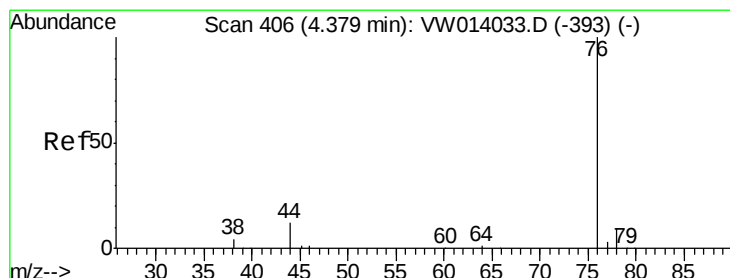
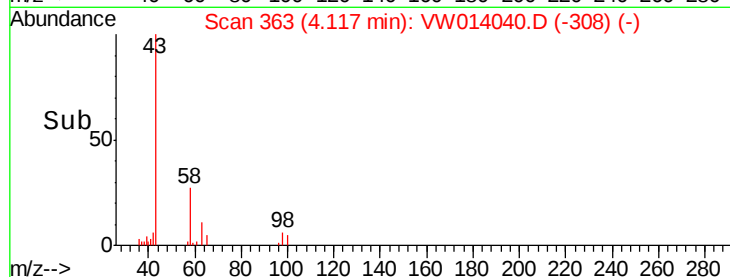
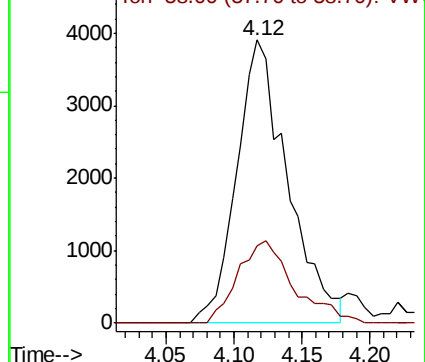
43 100

58 29.3 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.547 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW014040.D

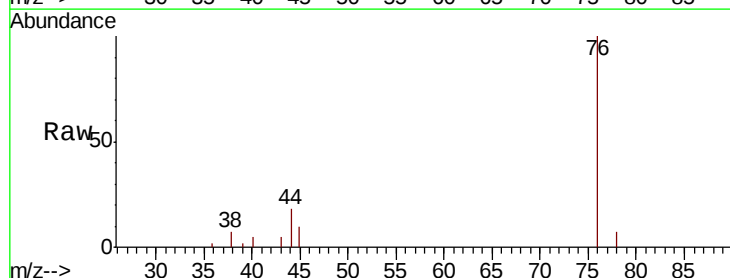
Acq: 15 Nov 2019 14:54

Tgt Ion: 76 Resp: 7414

Ion Ratio Lower Upper

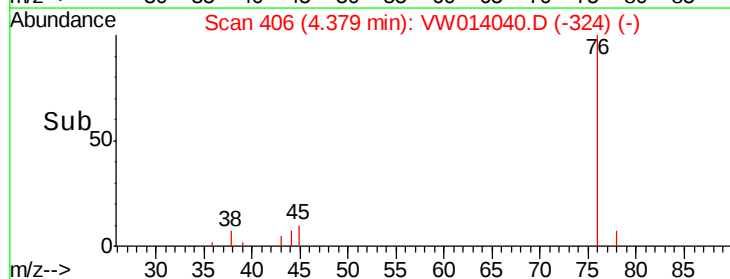
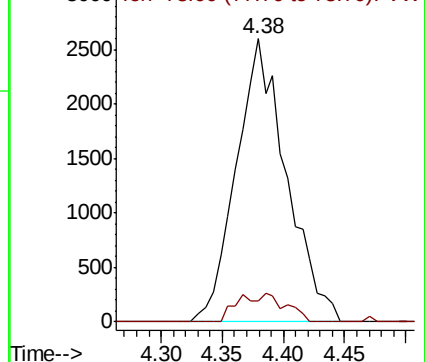
76 100

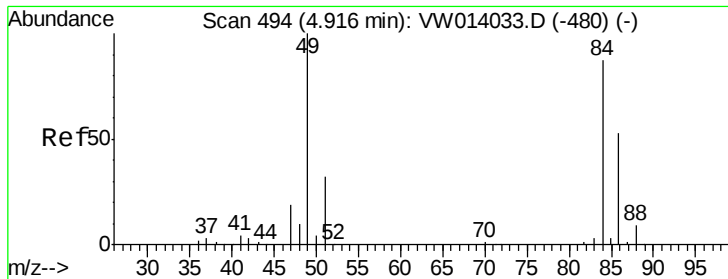
78 7.5 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

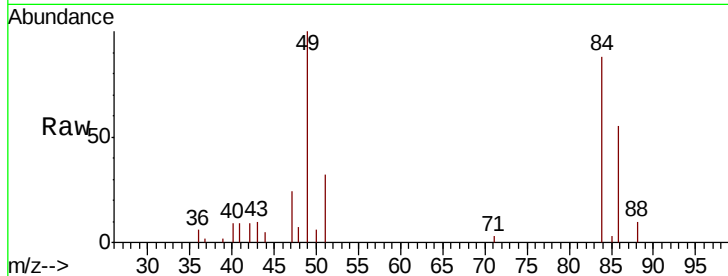




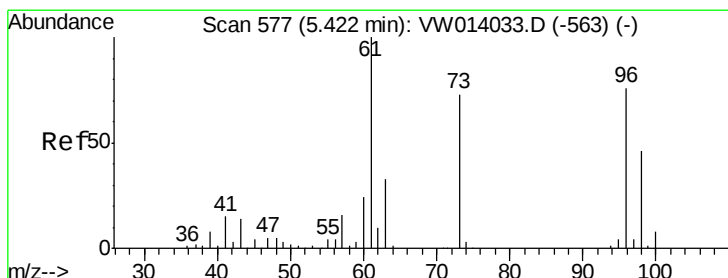
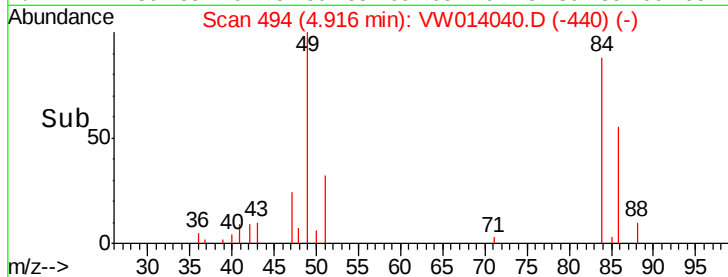
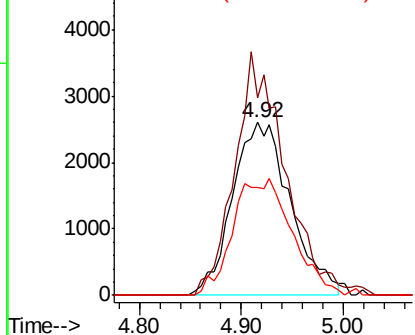
#16
Methylene chloride
Concen: 1.889 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 10250
Ion Ratio Lower Upper
84 100
49 114.0 84.2 156.4
86 62.7 43.7 81.1

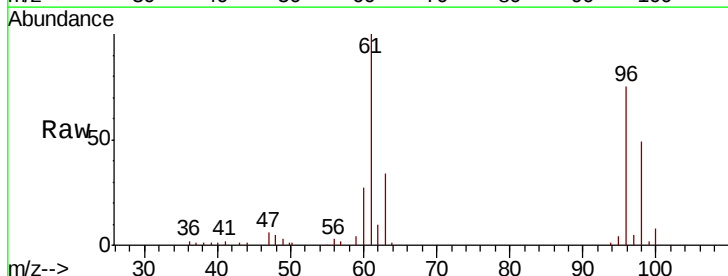


Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 49.00 (48.70 to 49.70): VW
Ion 86.00 (85.70 to 86.70): VW

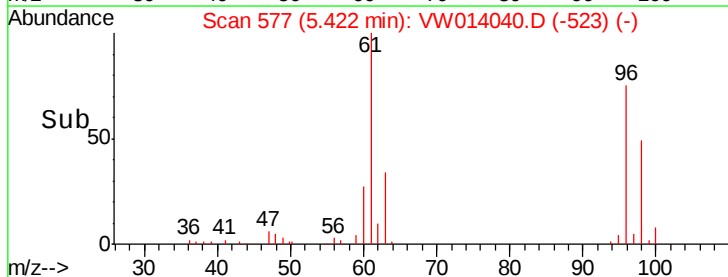
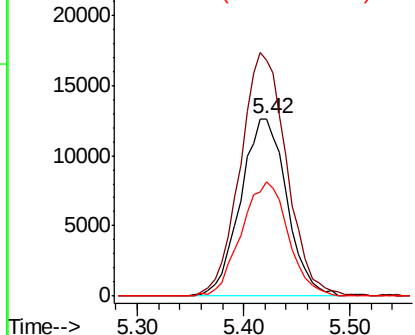


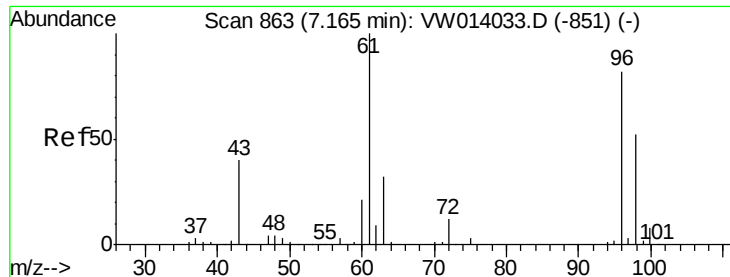
#18
trans-1,2-Dichloroethene
Concen: 7.750 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

Tgt Ion: 96 Resp: 38459
Ion Ratio Lower Upper
96 100
61 132.5 90.6 168.2
98 64.4 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW

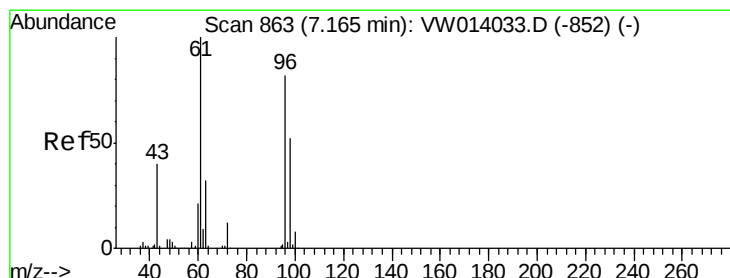
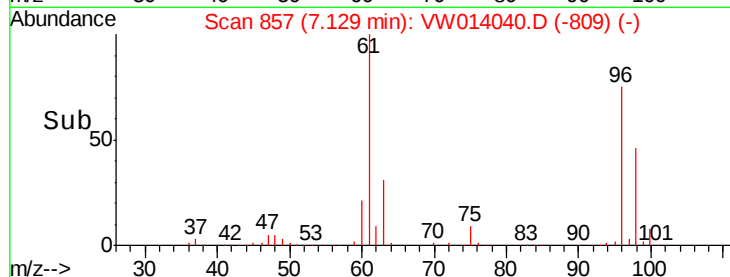
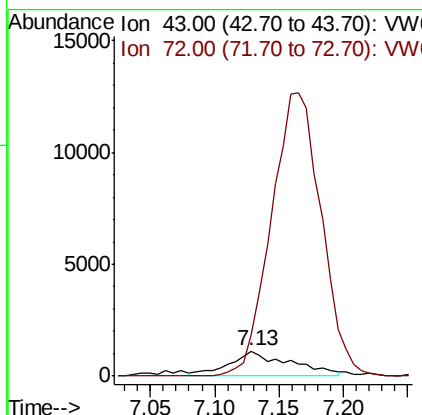
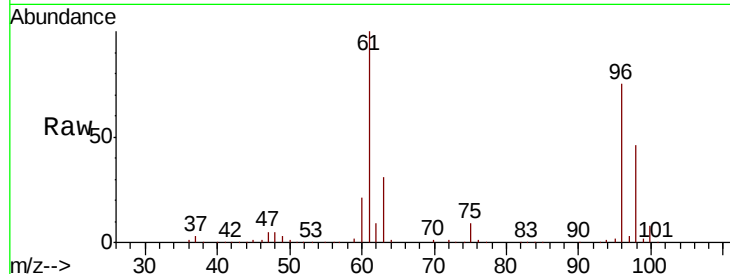




#21
2-Butanone
Concen: 2.157 ug/L
RT: 7.13 min Scan# 857
Delta R.T. -0.04 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

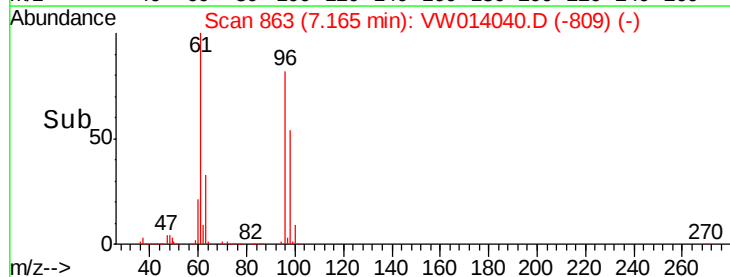
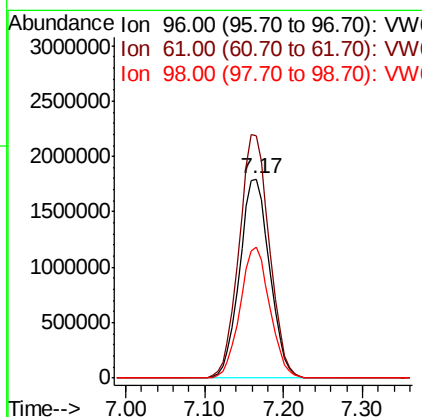
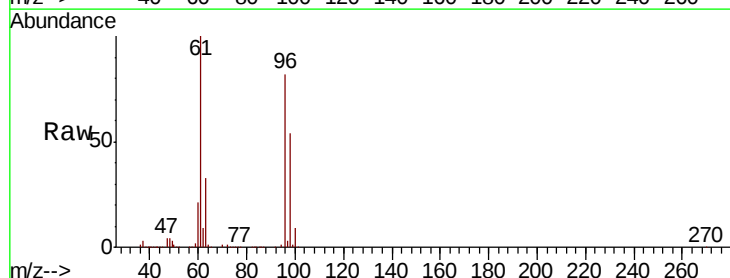
Instrument :
MSVOA_W
ClientSampled :

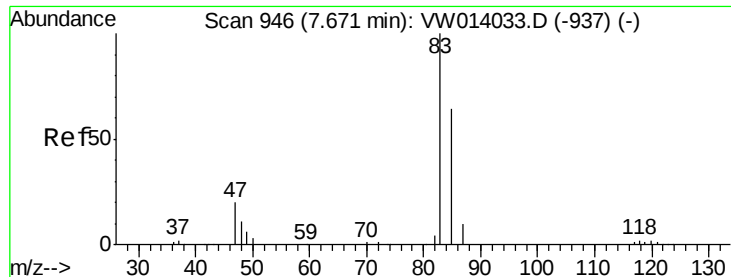
Tot Ion: 43 Resp: 3685
Ion Ratio Lower Upper
43 100
72 927.2 14.1 42.2#



#22
cis-1,2-Dichloroethene
Concen: 915.241 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

Tgt Ion: 96 Resp: 4779270
Ion Ratio Lower Upper
96 100
61 121.4 86.9 161.5
98 65.4 45.5 84.5

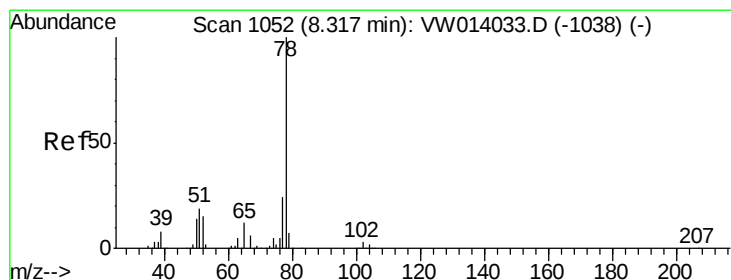
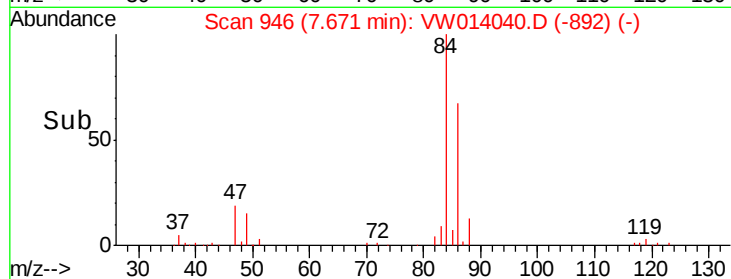
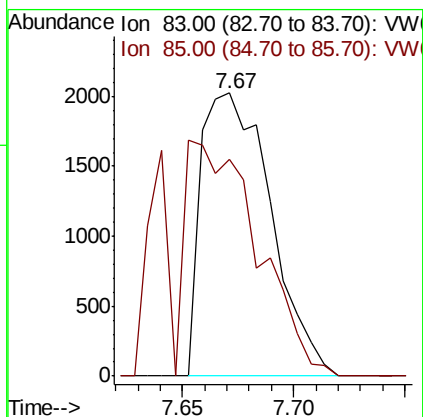
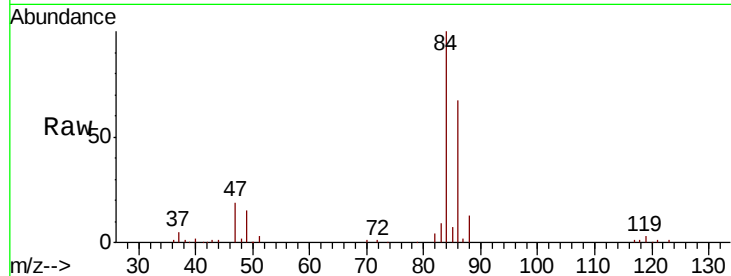




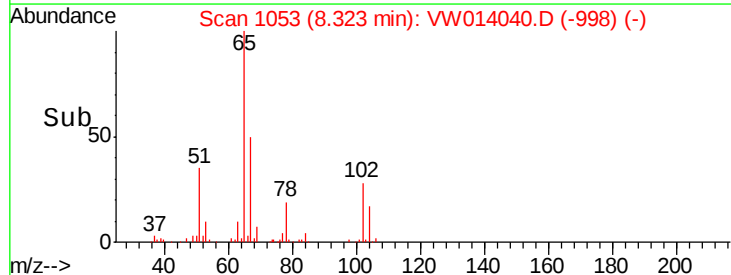
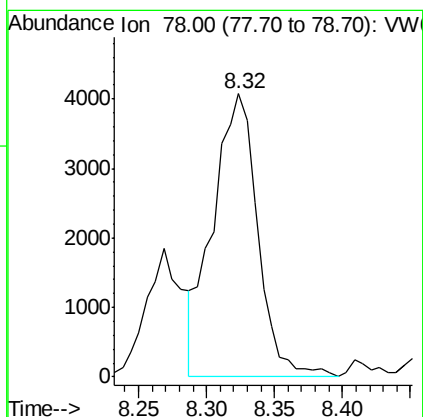
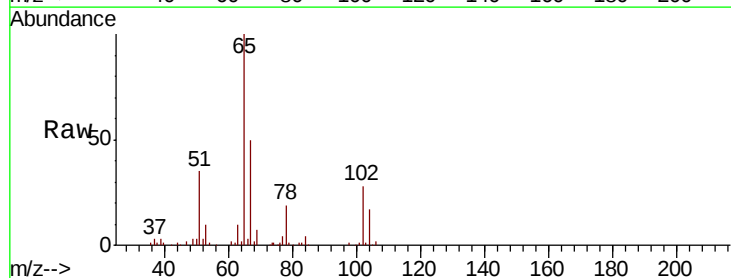
#25
Chloroform
Concen: 0.535 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

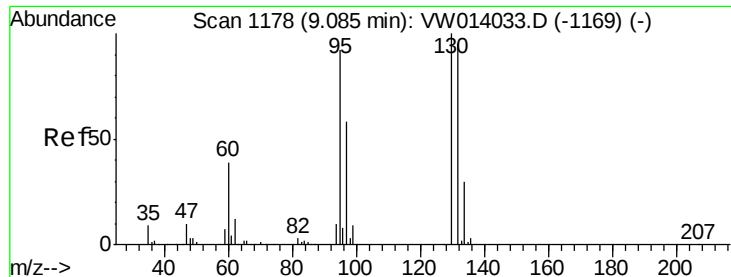
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 83 Resp: 4393
Ion Ratio Lower Upper
83 100
85 39.8 46.1 85.7#



#34
Benzene
Concen: 0.651 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54
Tgt Ion: 78 Resp: 9355

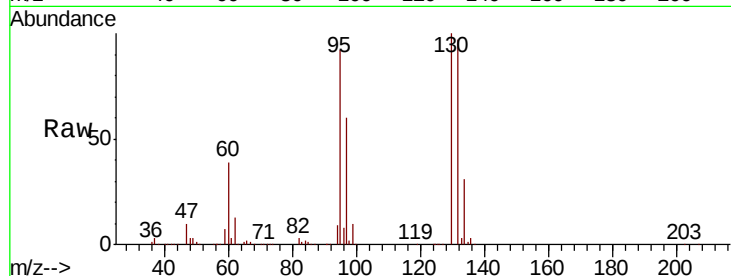




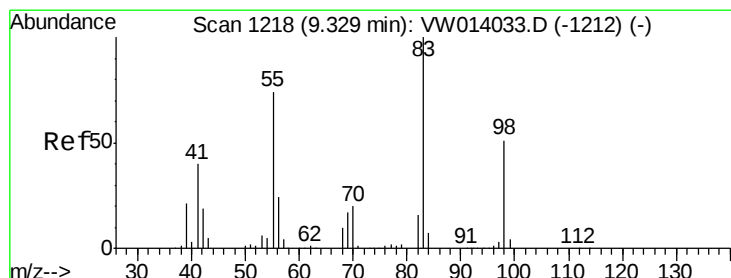
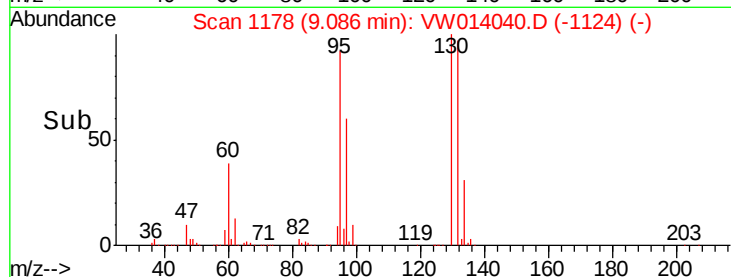
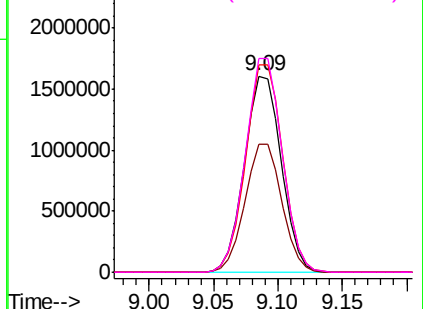
#35
 Trichloroethene
 Concen: 831.558 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. 0.00 min
 Lab File: VW014040.D
 Acq: 15 Nov 2019 14:54

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 95 Resp: 3186752
 Ion Ratio Lower Upper
 95 100
 97 65.2 45.1 83.9
 132 106.0 73.7 136.9
 130 108.3 76.6 142.2

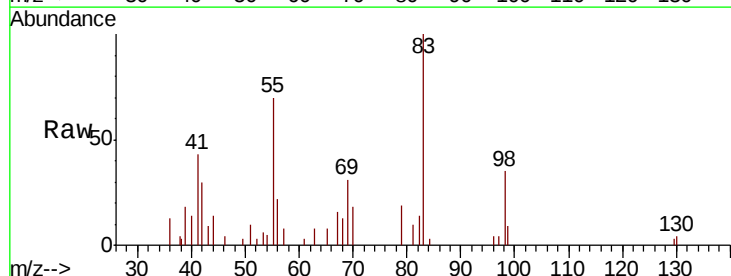


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

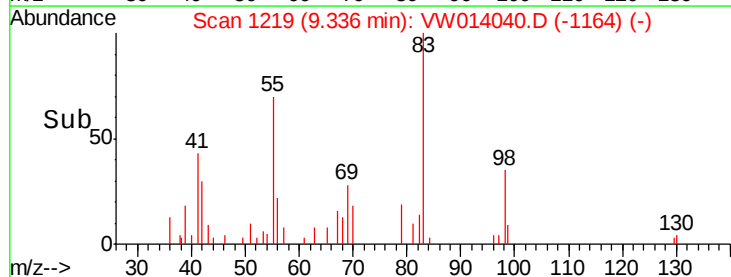
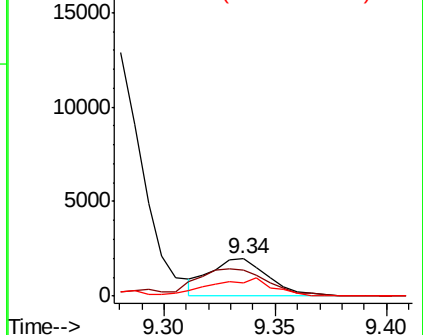


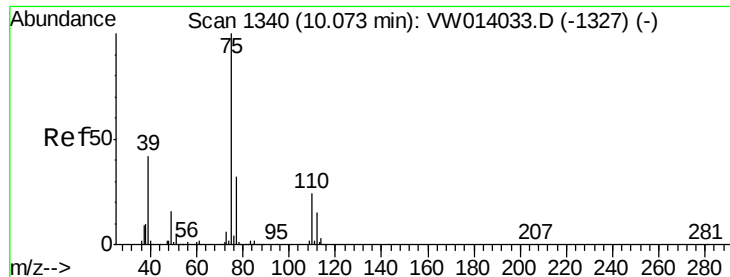
#36
 Methylcyclohexane
 Concen: 0.524 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VW014040.D
 Acq: 15 Nov 2019 14:54

Tgt Ion: 83 Resp: 3603
 Ion Ratio Lower Upper
 83 100
 55 90.0 59.8 89.8#
 98 51.6 39.5 59.3



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





#42

cis-1,3-Dichloropropene

Concen: 0.590 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW014040.D

Acq: 15 Nov 2019 14:54

Instrument :

MSVOA_W

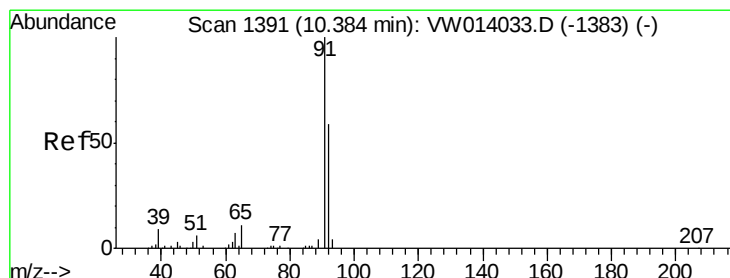
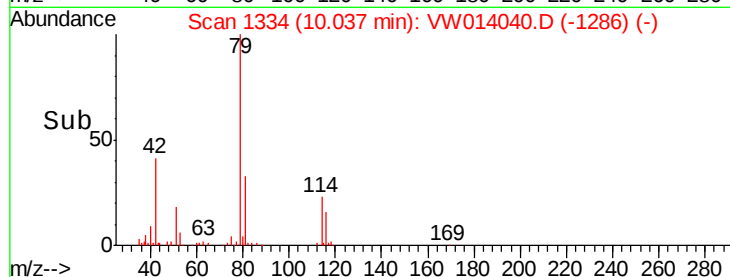
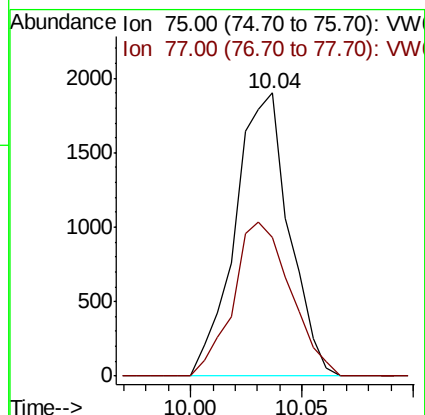
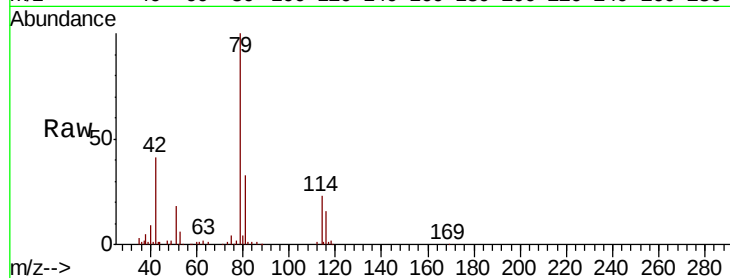
ClientSampleId :

Tot Ion: 75 Resp: 3219

Ion Ratio Lower Upper

75 100

77 49.2 22.1 41.1#



#44

Toluene

Concen: 2.722 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014040.D

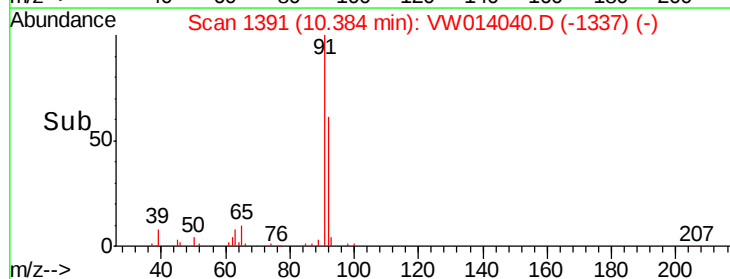
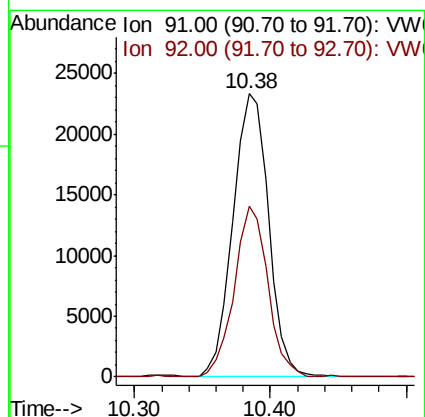
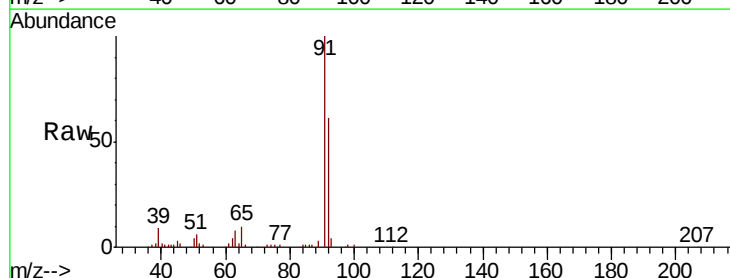
Acq: 15 Nov 2019 14:54

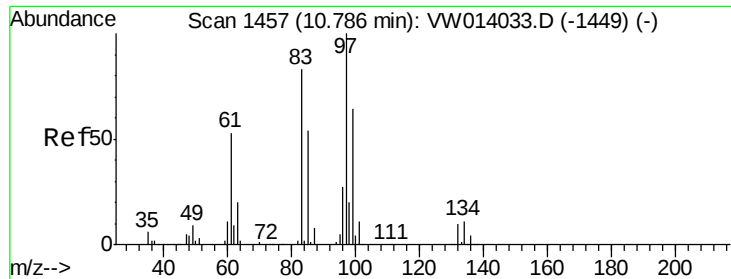
Tgt Ion: 91 Resp: 42629

Ion Ratio Lower Upper

91 100

92 60.5 40.7 75.7

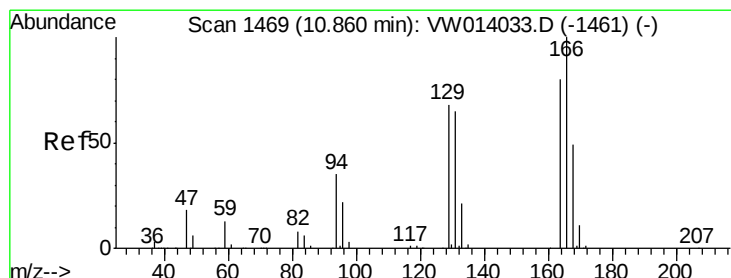
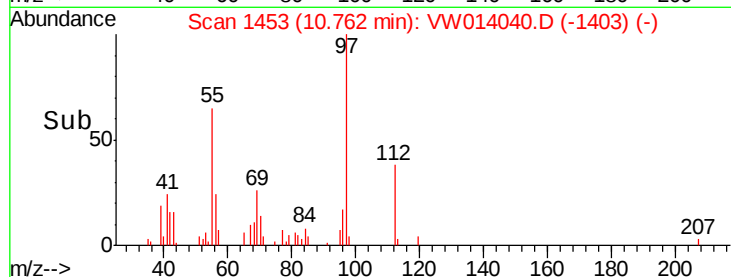
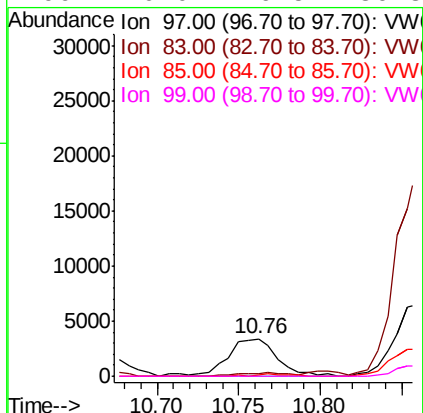
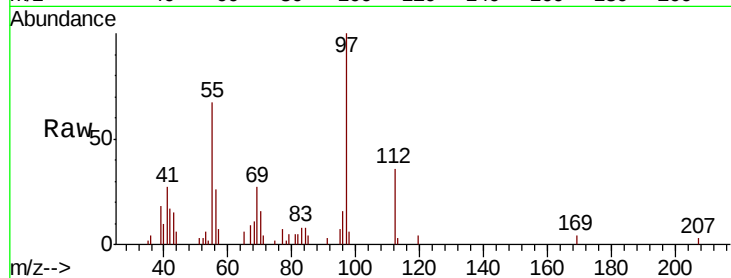




#46
 1,1,2-Trichloroethane
 Concen: 2.772 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW014040.D
 Acq: 15 Nov 2019 14:54

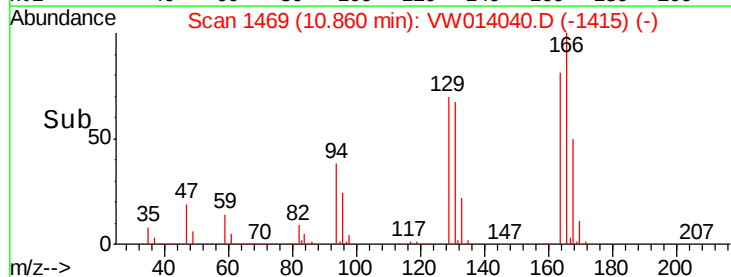
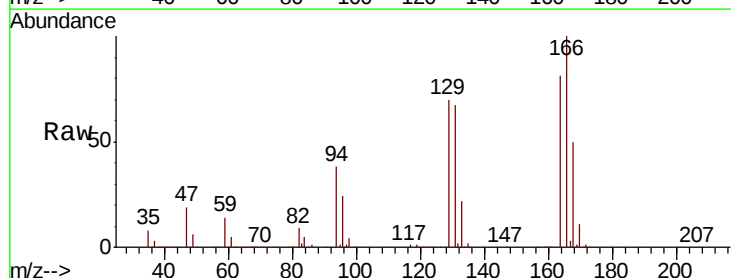
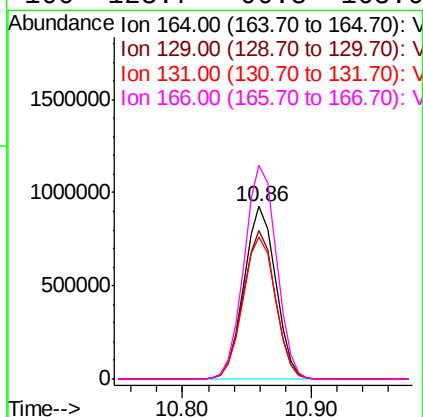
Instrument :
 MSVOA_W
 ClientSampleId :

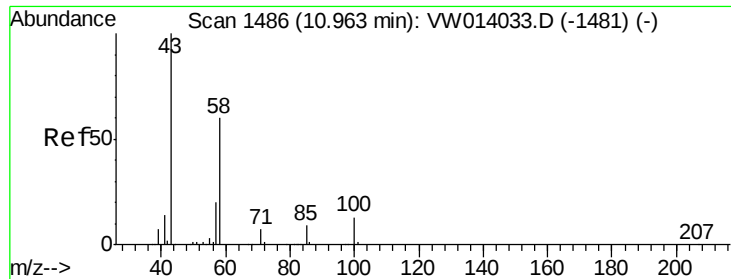
Tot Ion: 97 Resp: 7043
 Ion Ratio Lower Upper
 97 100
 83 7.6 58.9 109.5#
 85 4.0 38.1 70.9#
 99 0.0 46.5 86.3#



#47
 Tetrachloroethene
 Concen: 460.172 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW014040.D
 Acq: 15 Nov 2019 14:54

Tgt Ion: 164 Resp: 1571857
 Ion Ratio Lower Upper
 164 100
 129 86.2 60.6 112.6
 131 82.4 59.1 109.7
 166 123.7 90.8 168.6

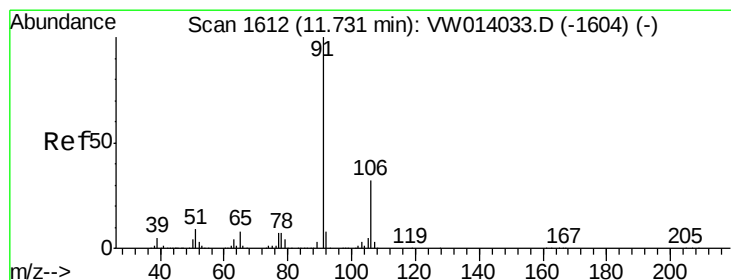
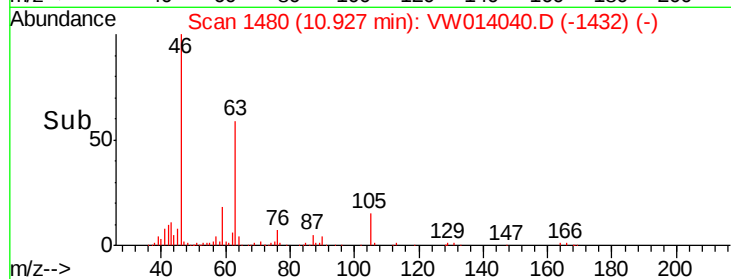
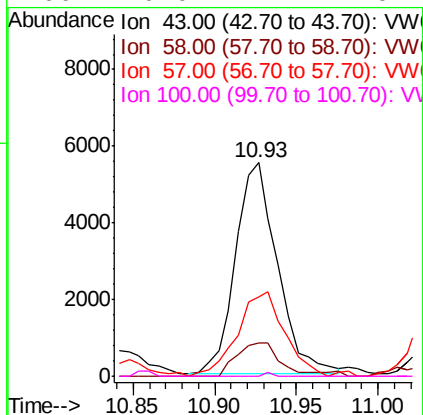
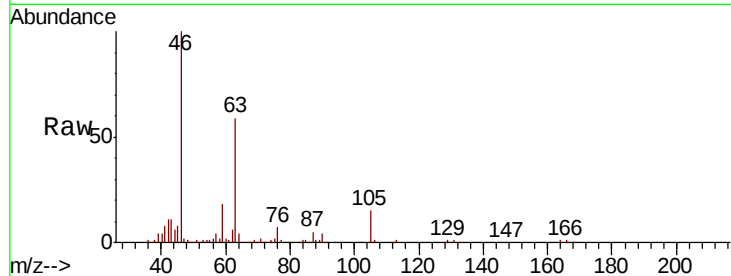




#49
2-Hexanone
Concen: 6.005 ug/L
RT: 10.93 min Scan# 1480
Delta R.T. -0.04 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

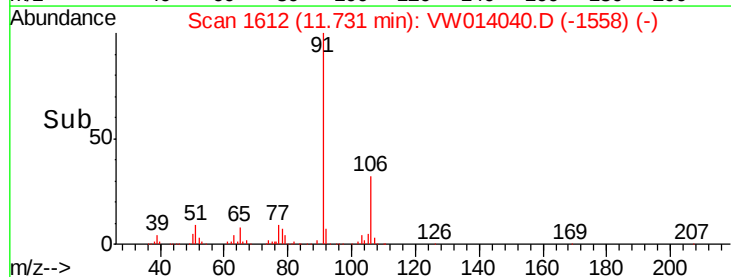
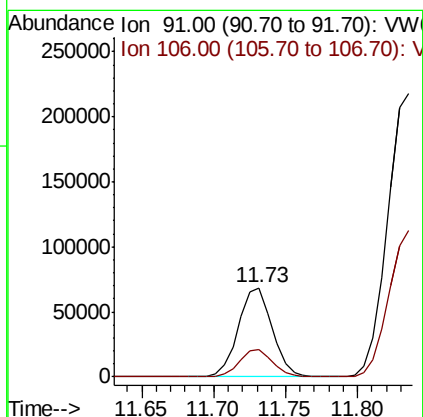
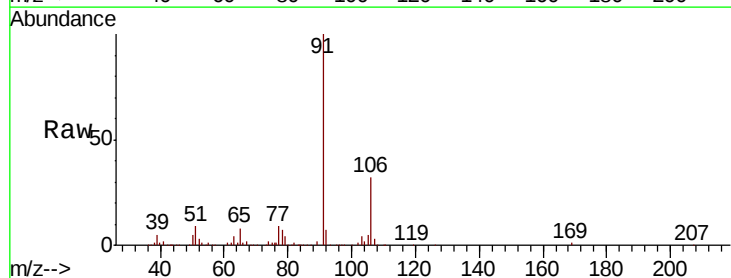
Instrument :
MSVOA_W
ClientSampleId :

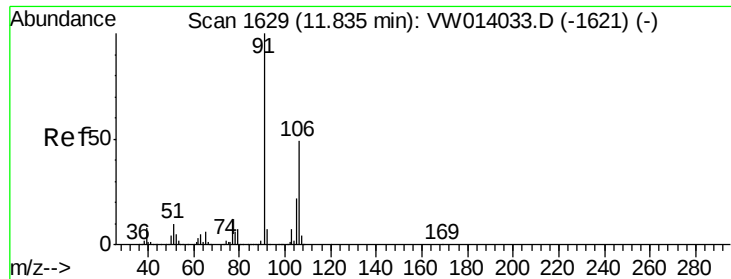
Tot Ion	Ratio	Lower	Upper
43	100		
58	15.5	44.4	66.6#
57	44.8	16.5	24.7#
100	0.0	11.1	16.7#



#53
Ethylbenzene
Concen: 6.473 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW014040.D
Acq: 15 Nov 2019 14:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.5	22.3	41.5





#54

m,p-Xylene

Concen: 29.291 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014040.D

Acq: 15 Nov 2019 14:54

Instrument :

MSVOA_W

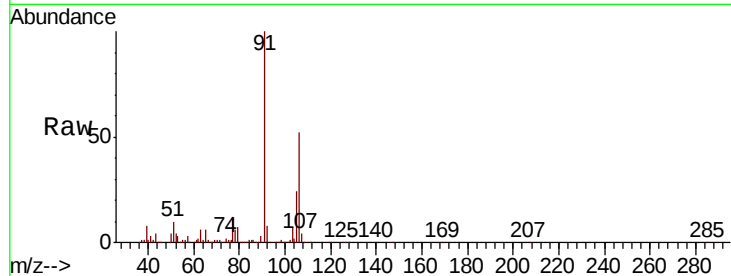
ClientSampled :

Tot Ion:106 Resp: 195657

Ion Ratio Lower Upper

106 100

91 193.1 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

250000

200000

150000

100000

50000

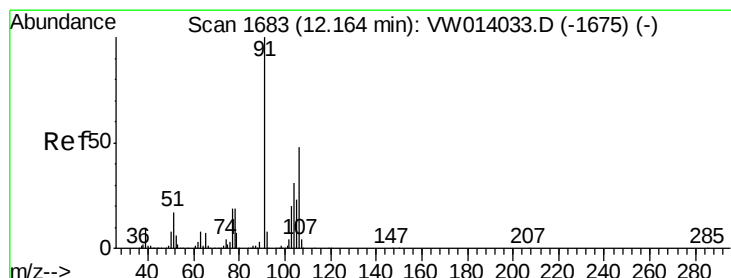
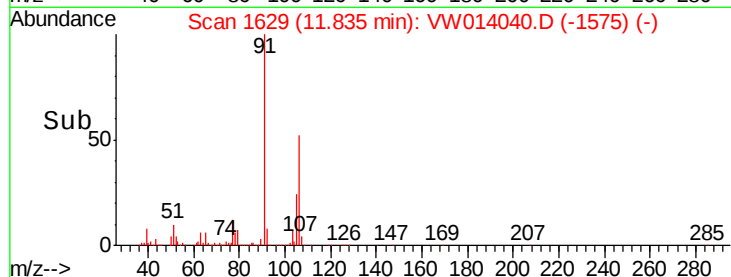
0

11.84

11.80

11.90

Time-->



#55

o-xylene

Concen: 16.379 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014040.D

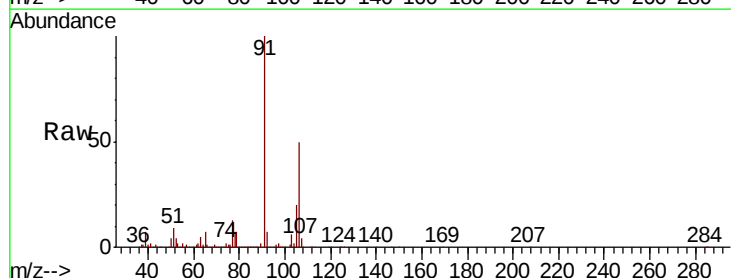
Acq: 15 Nov 2019 14:54

Tgt Ion:106 Resp: 102450

Ion Ratio Lower Upper

106 100

91 201.8 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

150000

100000

50000

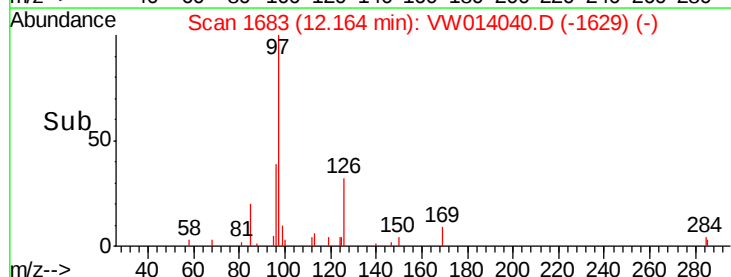
0

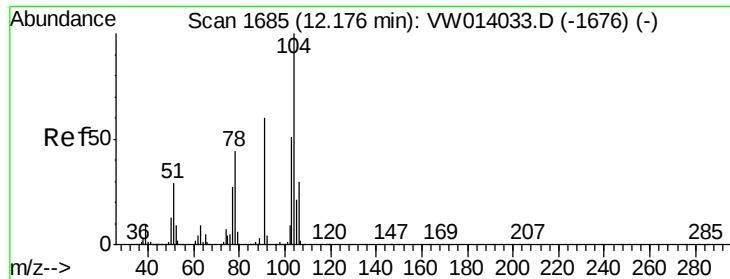
12.16

12.10

12.20

Time-->





#56

Stvrene

Concen: 0.580 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW014040.D

Acq: 15 Nov 2019 14:54

Instrument :

MSVOA_W

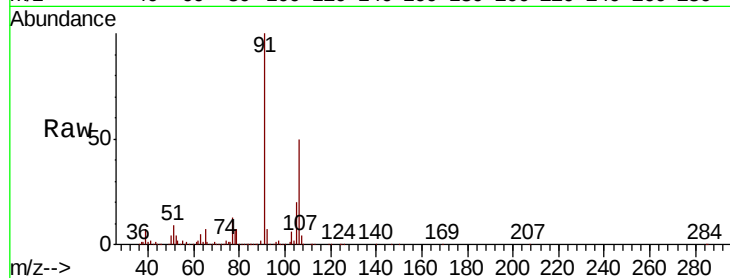
ClientSampleId :

Tot Ion:104 Resp: 6133

Ion Ratio Lower Upper

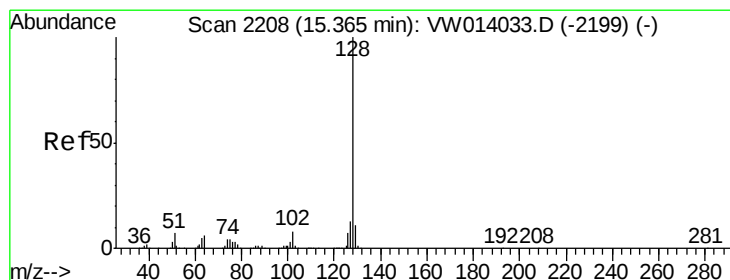
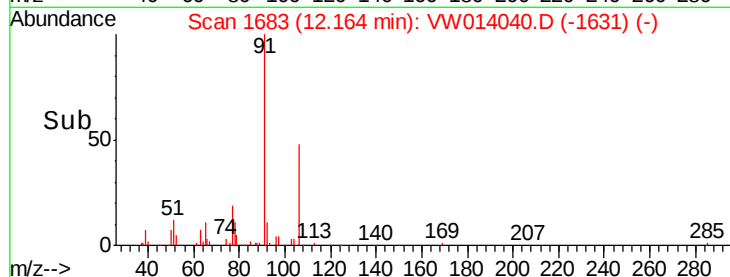
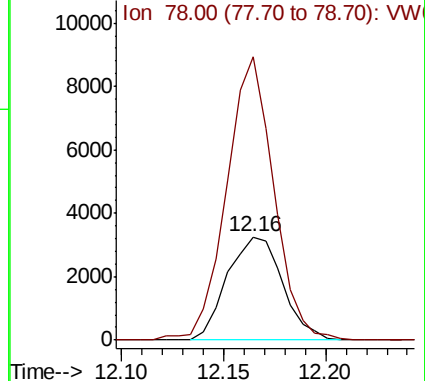
104 100

78 274.9 30.6 56.8#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#69

Naphthalene

Concen: 2.284 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014040.D

Acq: 15 Nov 2019 14:54

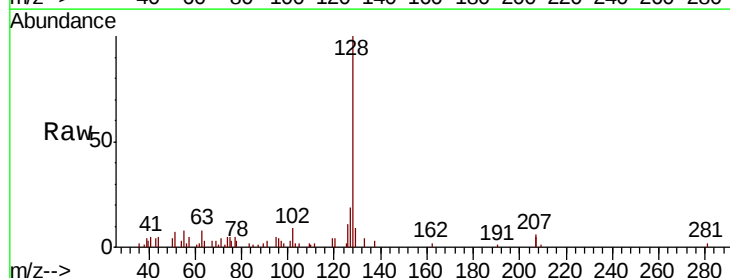
Tgt Ion:128 Resp: 9043

Ion Ratio Lower Upper

128 100

129 12.9 8.8 13.2

127 16.4 10.4 15.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

