

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011520\
 Data File : VW014652.D
 Acq On : 15 Jan 2020 14:17
 Operator : SY/VA
 Sample : L1109-10
 Misc : 5.06G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GASG9

Quant Time: Jan 16 01:21:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 16 01:18:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	275114	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	187713	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	40583	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	92430	23.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.32%
7) Chloroethane-d5	2.89	69	80258	28.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	112.36%
10) 1,1-Dichloroethene-d2	4.01	63	133263	18.79	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.16%
20) 2-Butanone-d5	7.07	46	65665	71.15	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	142.30%#
24) Chloroform-d	7.65	84	171424	27.08	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	108.32%
26) 1,2-Dichloroethane-d4	8.31	65	97528	29.69	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	118.76%
29) Benzene-d6	8.27	84	361130	36.18	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	144.72%#
33) 1,2-Dichloropropane-d6	9.27	67	110691	36.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	147.52%#
37) Toluene-d8	10.32	98	260342	28.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	115.08%
38) trans-1,3-Dichloropropene-	10.58	79	39927	32.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	128.84%
39) 2-Hexanone-d5	10.92	63	46675	90.95	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	181.90%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	54362	24.12	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.48%
61) 1,2-Dichlorobenzene-d4	13.85	152	37366	27.94	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	111.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	4.13	43	30918	24.198	ug/L	99
16) Methylene chloride	4.91	84	18242	4.066	ug/L	94
21) 2-Butanone	7.13	43	3205	2.338	ug/L	78
34) Benzene	8.32	78	28411	2.515	ug/L	100
42) cis-1,3-Dichloropropene	10.04	75	2340	0.548	ug/L #	23
43) 4-Methyl-2-pentanone	10.21	43	6206	3.381	ug/L	98
44) Toluene	10.38	91	4911791	416.080	ug/L	97
47) Tetrachloroethene	10.86	164	1363	0.557	ug/L	84
49) 2-Hexanone	10.97	43	5702	4.549	ug/L	88
52) Chlorobenzene	11.66	112	12292	1.647	ug/L	92
53) Ethylbenzene	11.73	91	11645474	897.223	ug/L	94
54) m,p-Xylene	11.84	106	5452061	1110.009	ug/L	91
56) Styrene	12.18	104	6915574	885.624	ug/L	86
57) Isopropylbenzene	12.46	105	1436712	116.419	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.69	83	5209	2.118	ug/L	94
59) 1,2,3-Trichloropropane	12.74	75	17215	9.346	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.49	75	178974	1049.304	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Thu Jan 16 01:18:54 2020
Response via : Initial Calibration

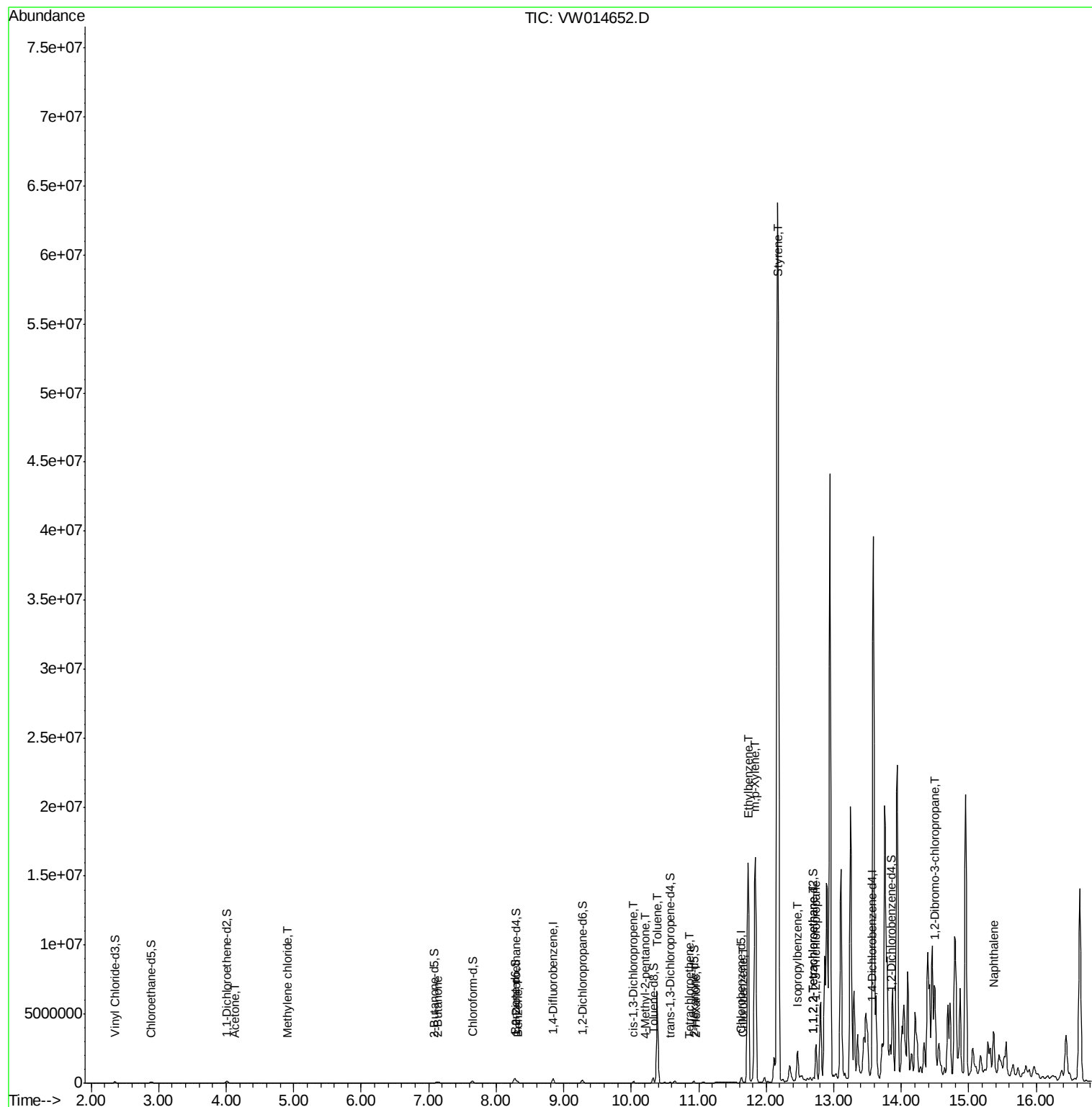
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	15.36	128	2615885	1061.994	ug/L	100

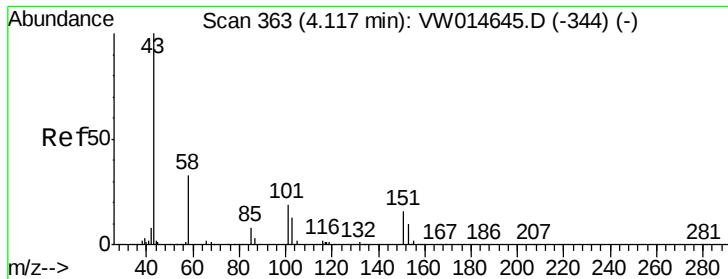
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011520\
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Response via : Initial Calibration





#13

Acetone

Concen: 24.198 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampled :

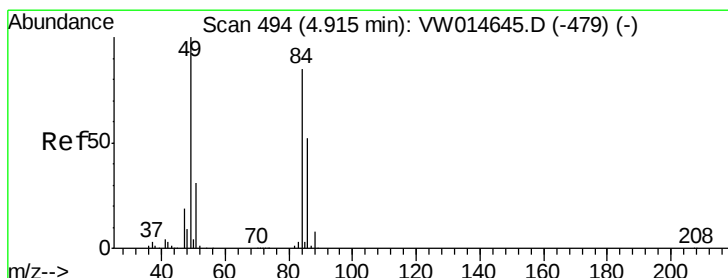
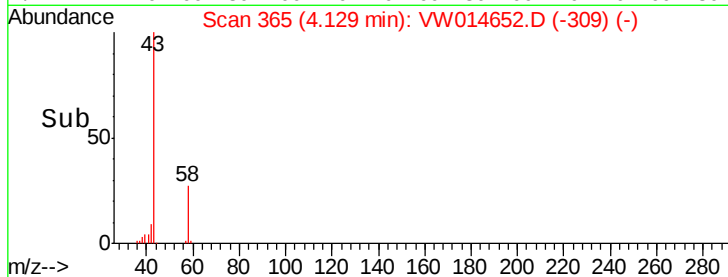
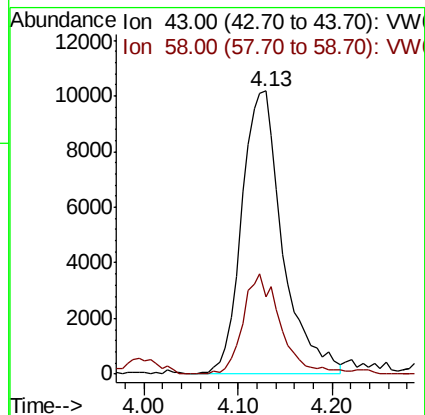
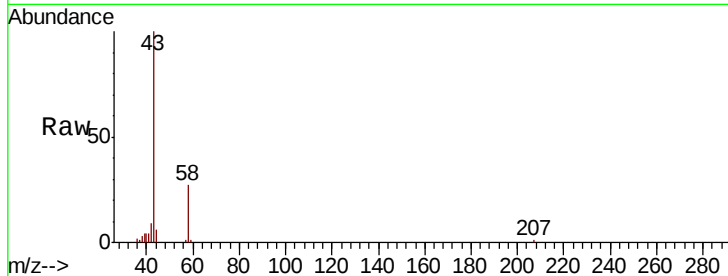
GASG9

Tot Ion: 43 Resp: 30918

Ion Ratio Lower Upper

43 100

58 31.4 0.0 64.0



#16

Methylene chloride

Concen: 4.066 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

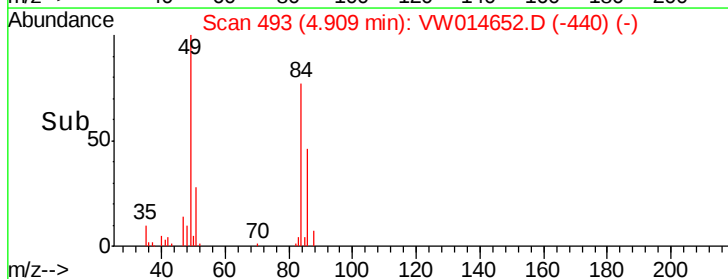
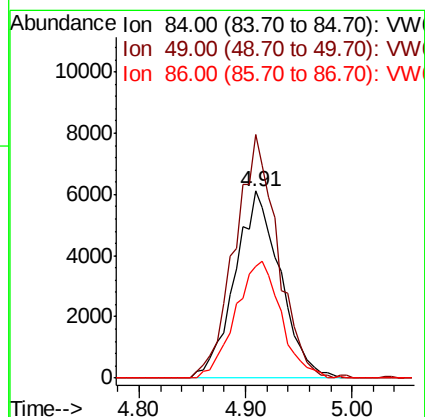
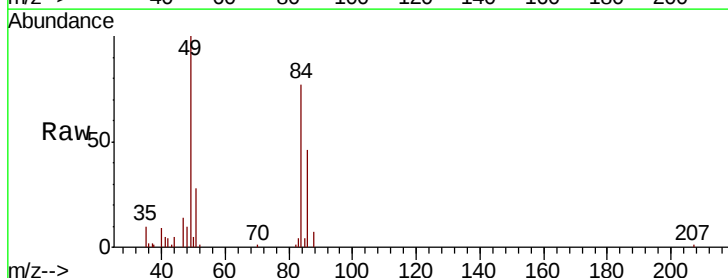
Tgt Ion: 84 Resp: 18242

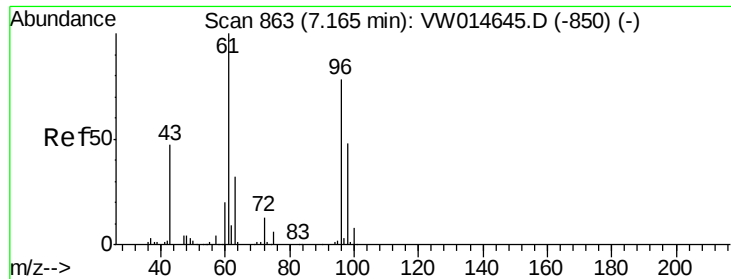
Ion Ratio Lower Upper

84 100

49 130.4 85.8 159.4

86 60.2 44.5 82.7





#21

2-Butanone

Concen: 2.338 ug/L

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampled :

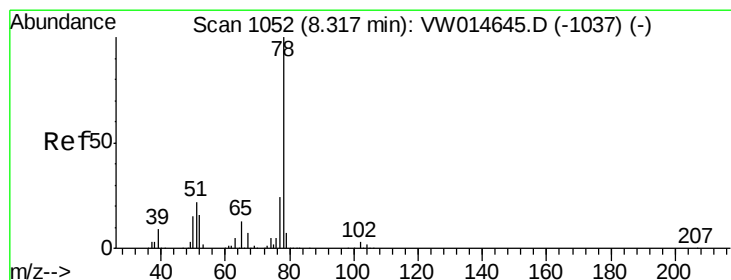
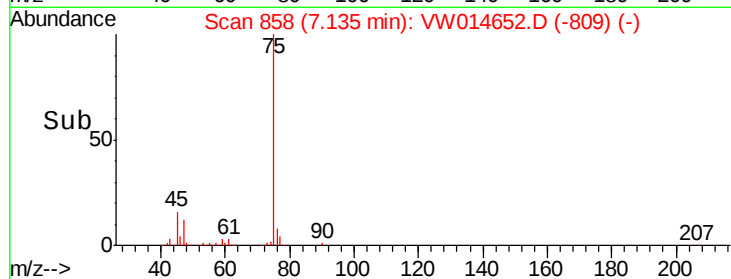
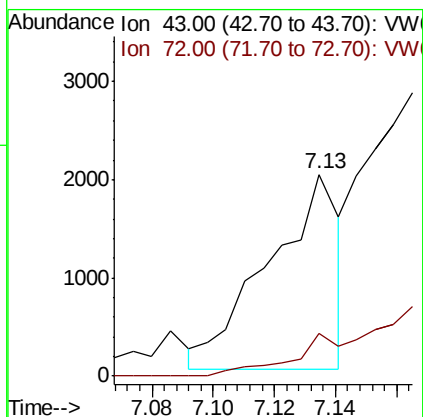
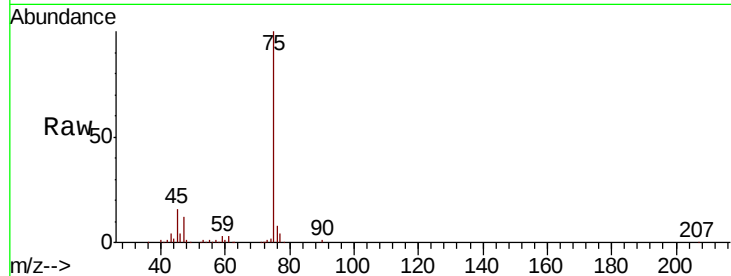
GASG9

Tot Ion: 43 Resp: 3205

Ion Ratio Lower Upper

43 100

72 15.2 13.3 39.8



#34

Benzene

Concen: 2.515 ug/L

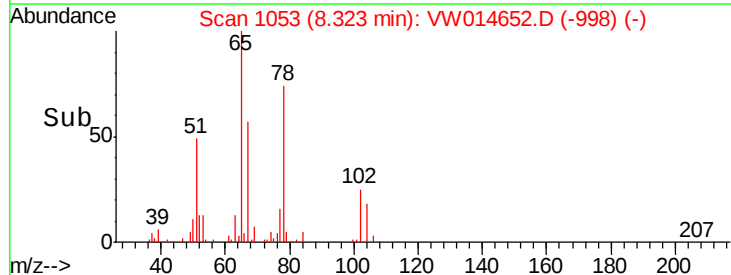
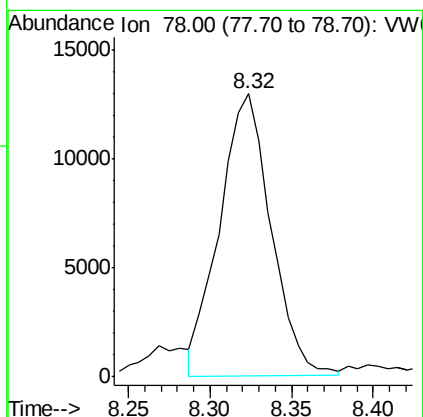
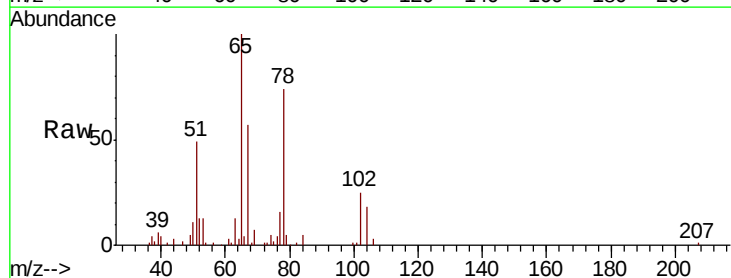
RT: 8.32 min Scan# 1053

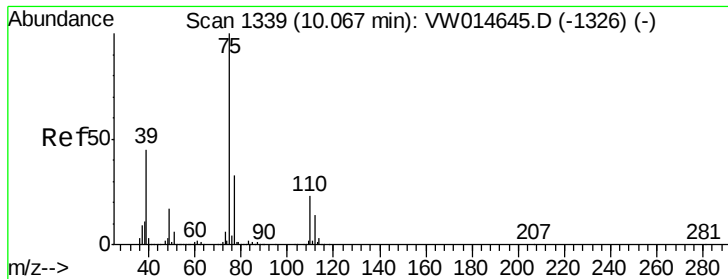
Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Tgt Ion: 78 Resp: 28411





#42

cis-1,3-Dichloropropene

Concen: 0.548 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.03 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampled :

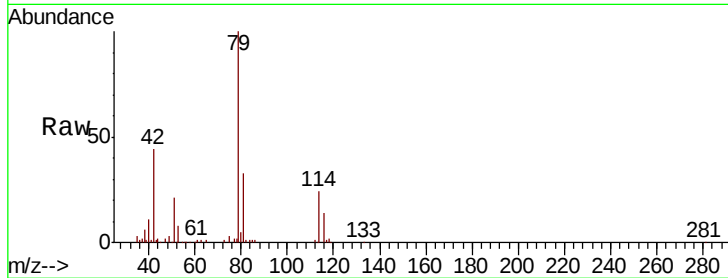
GASG9

Tot Ion: 75 Resp: 2340

Ion Ratio Lower Upper

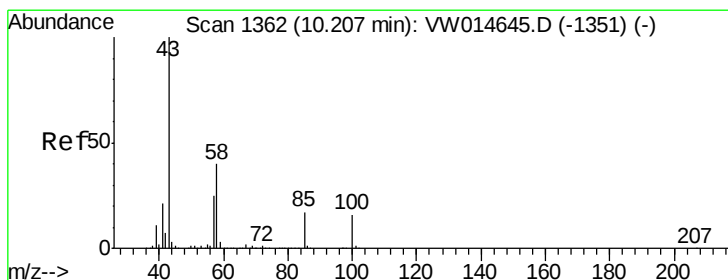
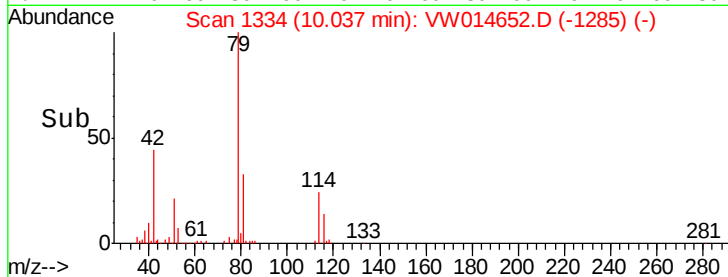
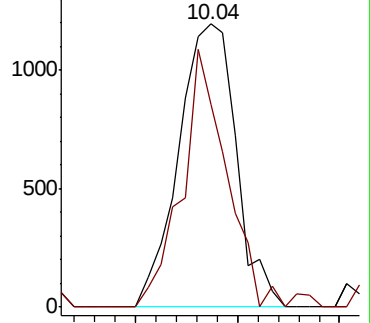
75 100

77 71.7 21.0 39.0#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#43

4-Methyl-2-pentanone

Concen: 3.381 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

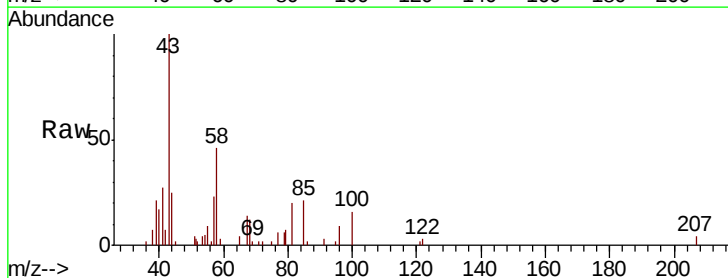
Tgt Ion: 43 Resp: 6206

Ion Ratio Lower Upper

43 100

58 41.5 32.6 48.8

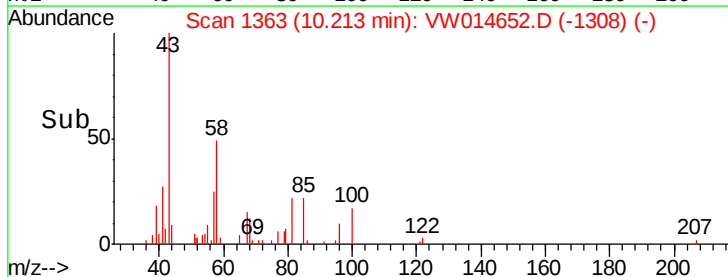
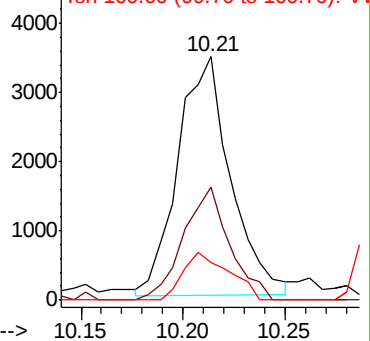
100 17.4 12.6 19.0

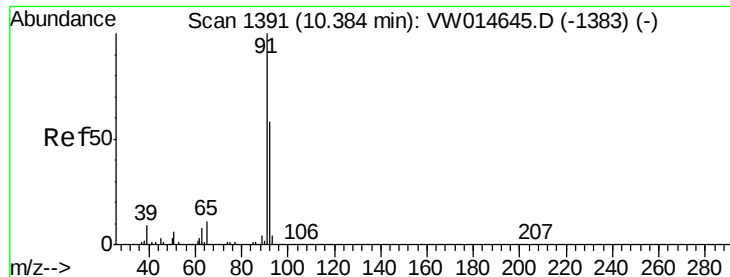


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW





#44

Toluene

Concen: 416.080 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

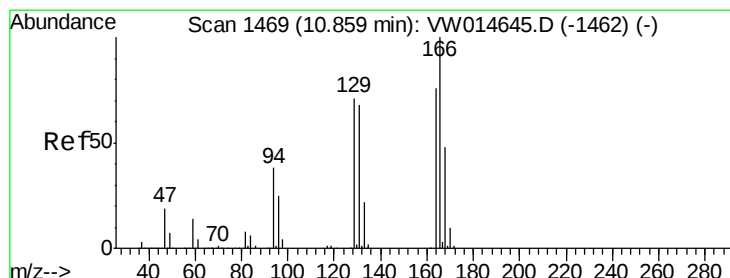
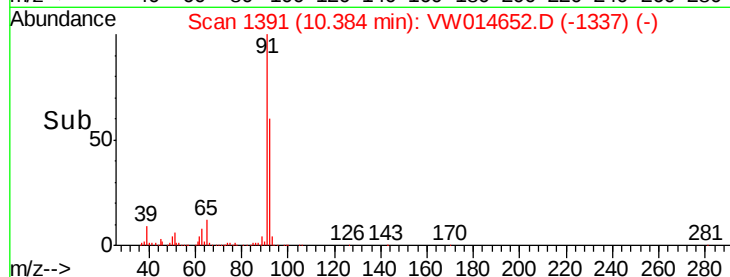
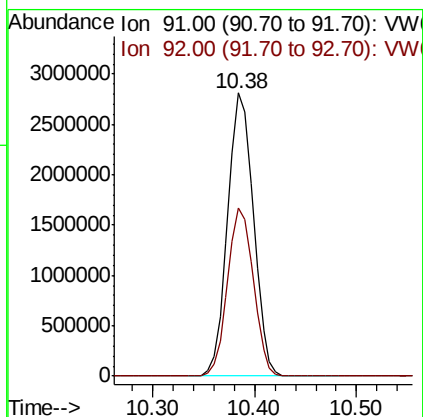
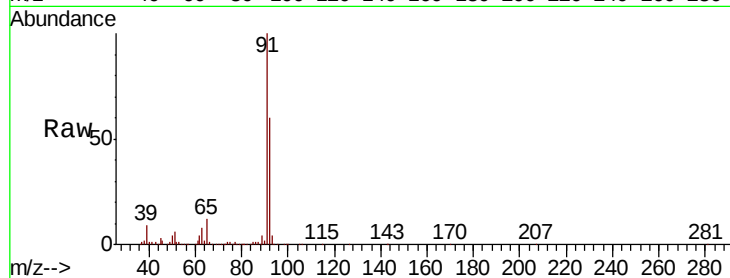
GASG9

Tot Ion: 91 Resp: 4911791

Ion Ratio Lower Upper

91 100

92 59.6 40.2 74.6



#47

Tetrachloroethene

Concen: 0.557 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Tgt Ion:164 Resp: 1363

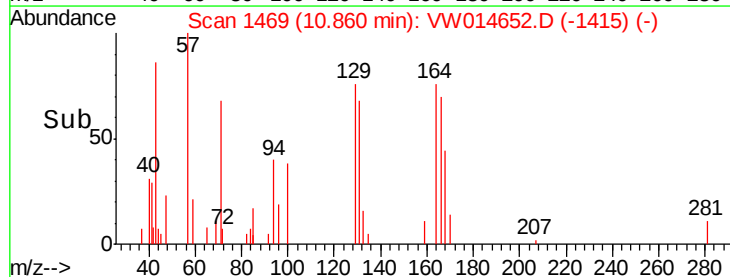
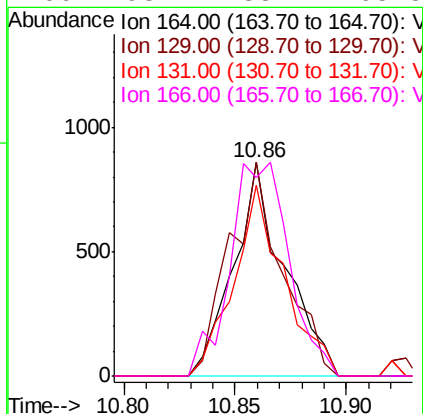
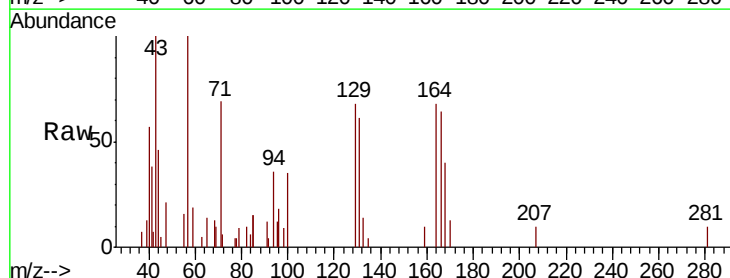
Ion Ratio Lower Upper

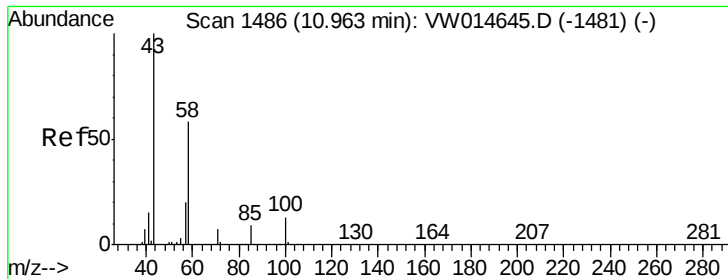
164 100

129 100.0 64.0 118.8

131 89.5 60.2 111.8

166 93.2 88.2 163.8





#49

2-Hexanone

Concen: 4.549 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampled :

GASG9

Tot Ion: 43 Resp: 5702

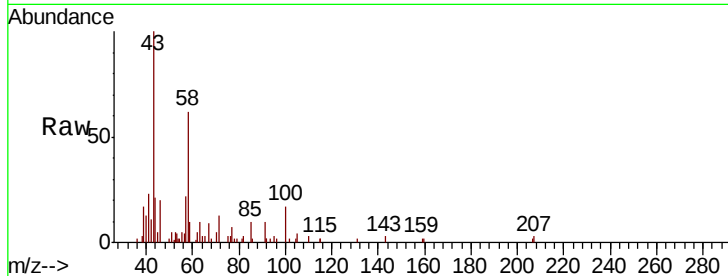
Ion Ratio Lower Upper

43 100

58 66.9 44.9 67.3

57 15.6 15.3 22.9

100 14.8 10.0 15.0



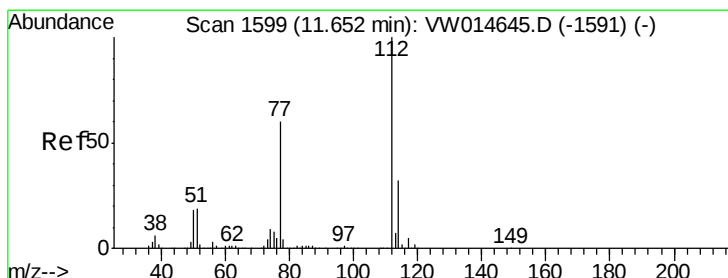
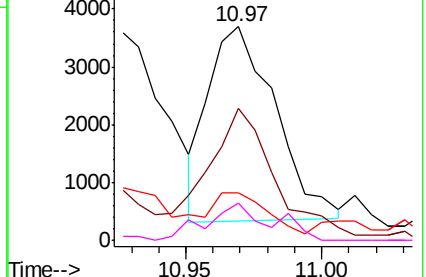
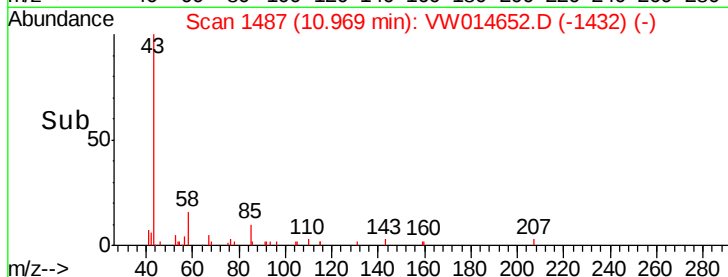
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW

Time-->



#52

Chlorobenzene

Concen: 1.647 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

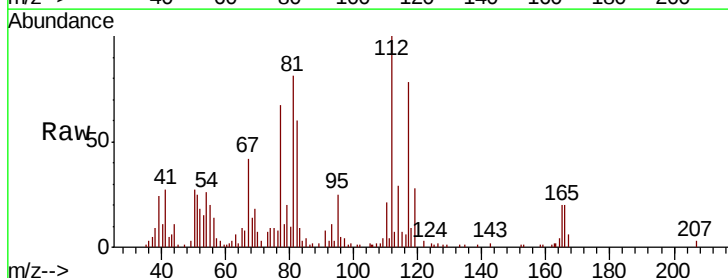
Tgt Ion: 112 Resp: 12292

Ion Ratio Lower Upper

112 100

77 66.7 48.2 72.2

114 28.9 22.9 42.5

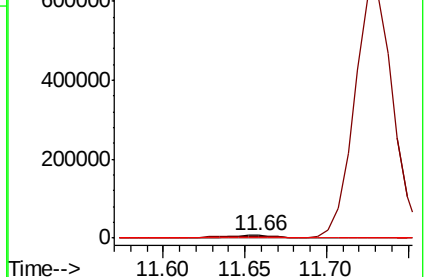
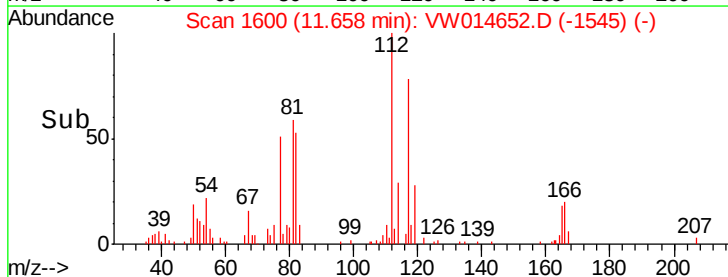


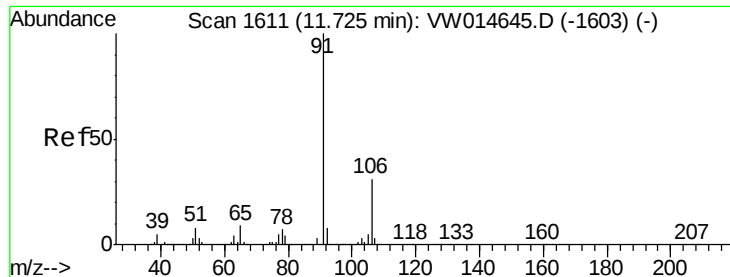
Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V

Time-->





#53

Ethylbenzene

Concen: 897.223 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

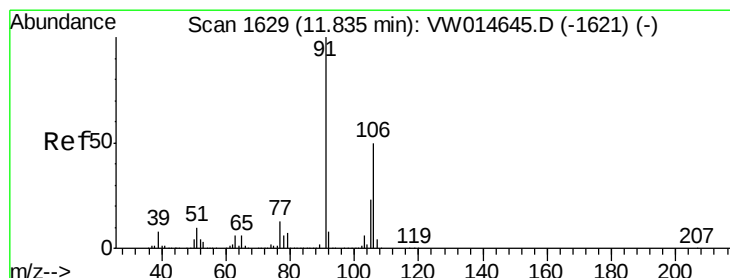
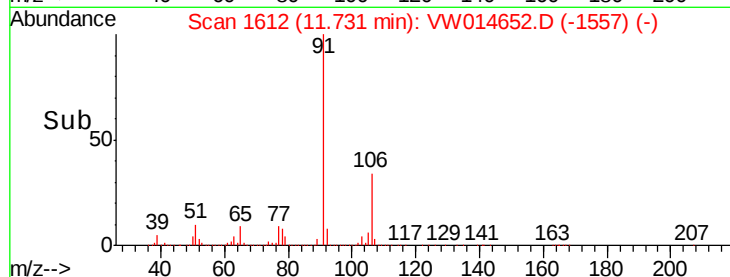
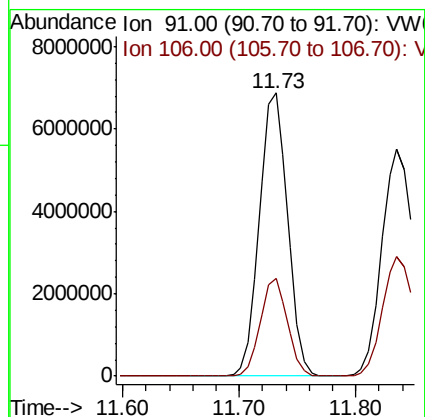
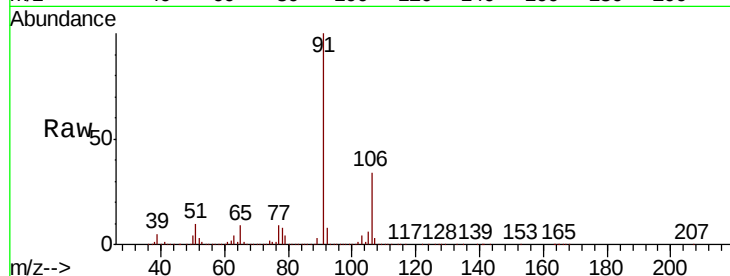
GASG9

Tot Ion: 91 Resp: 11645474

Ion Ratio Lower Upper

91 100

106 34.4 21.8 40.6



#54

m,p-Xylene

Concen: 1110.009 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014652.D

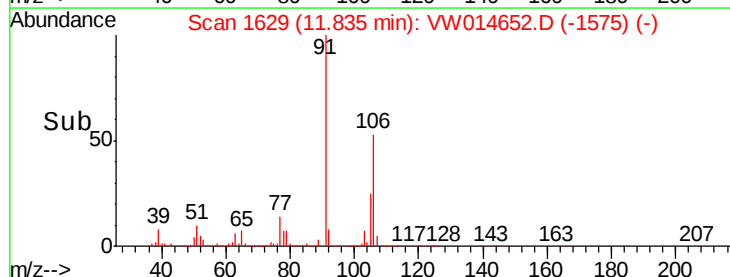
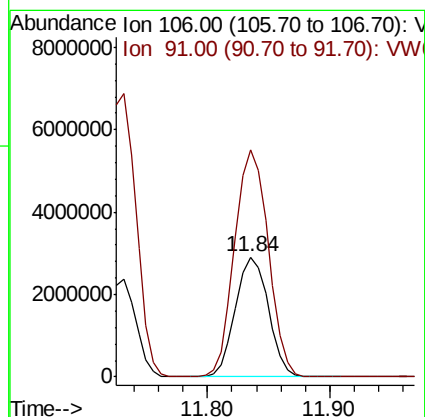
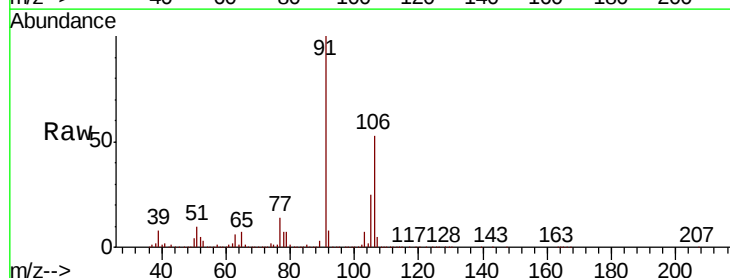
Acq: 15 Jan 2020 14:17

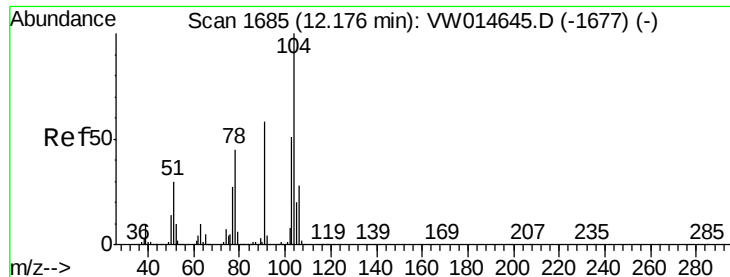
Tgt Ion: 106 Resp: 5452061

Ion Ratio Lower Upper

106 100

91 189.3 142.2 264.0





#56

Stvrene

Concen: 885.624 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampled :

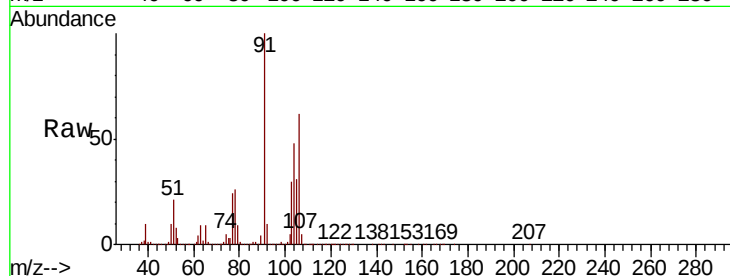
GASG9

Tot Ion:104 Resp: 6915574

Ion Ratio Lower Upper

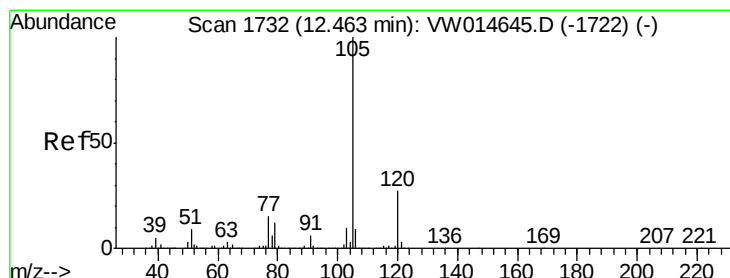
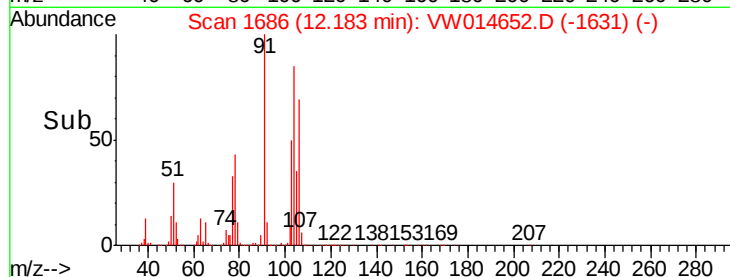
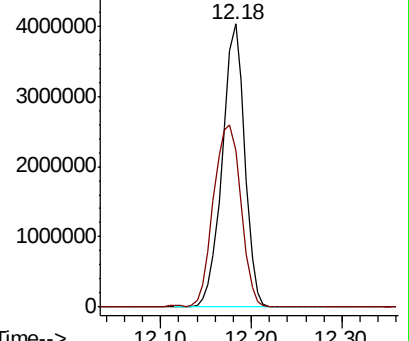
104 100

78 55.2 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 116.419 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

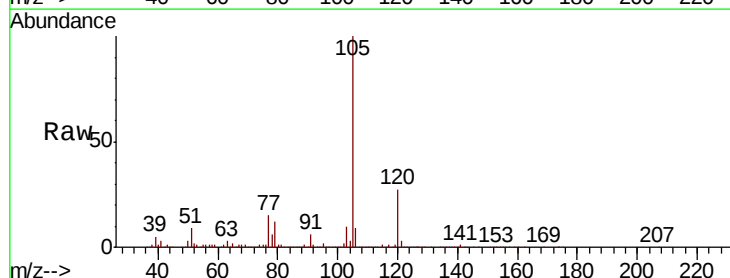
Tgt Ion:105 Resp: 1436712

Ion Ratio Lower Upper

105 100

120 27.3 21.0 31.6

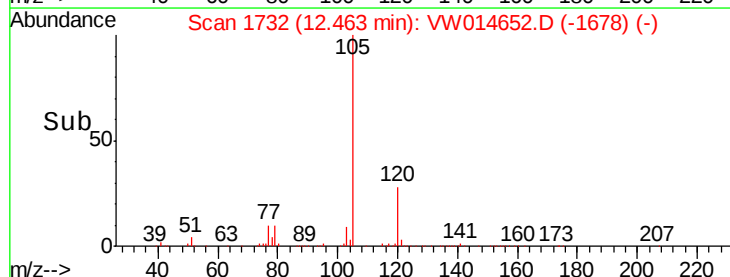
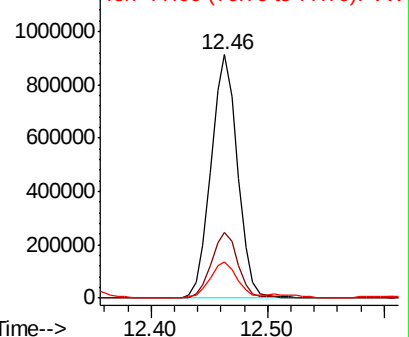
77 15.1 12.2 18.2

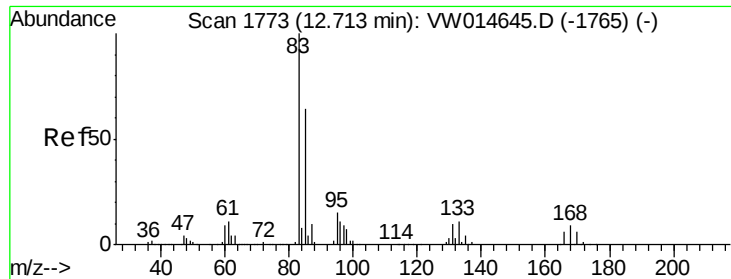


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW

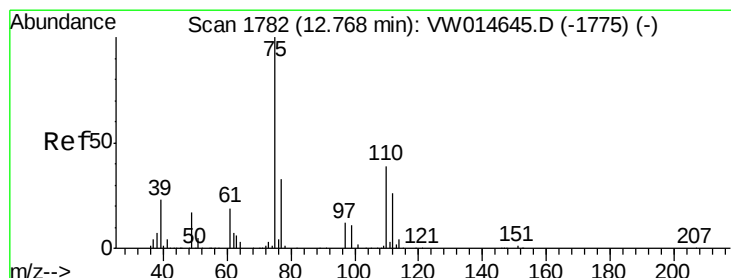
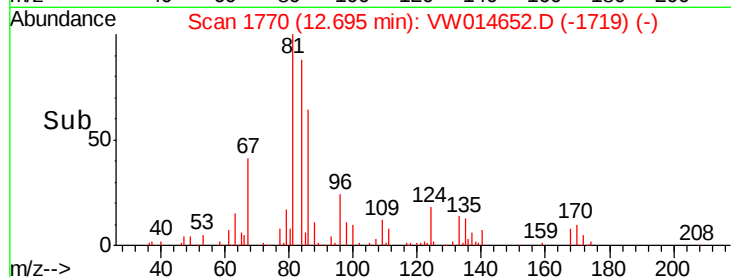
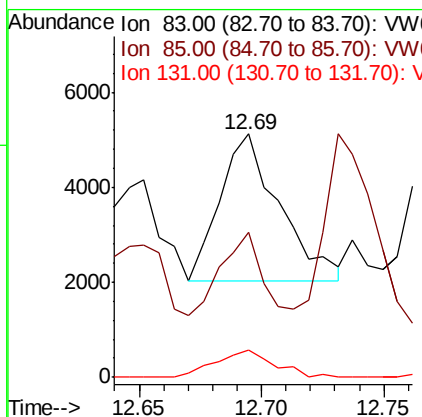
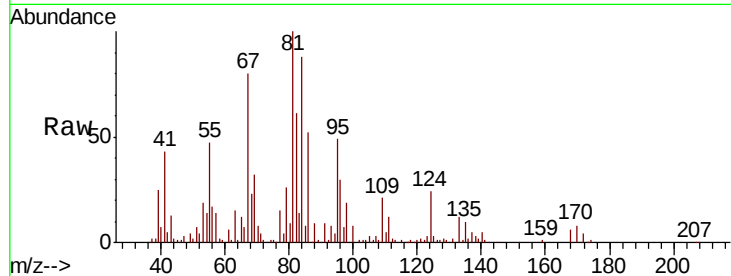




#58
 1,1,2,2-Tetrachloroethane
 Concen: 2.118 ug/L
 RT: 12.69 min Scan# 1770
 Delta R.T. -0.02 min
 Lab File: VW014652.D
 Acq: 15 Jan 2020 14:17

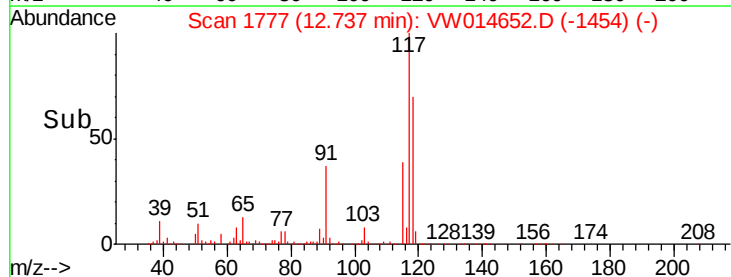
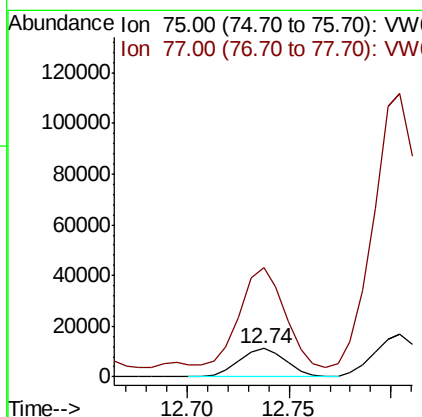
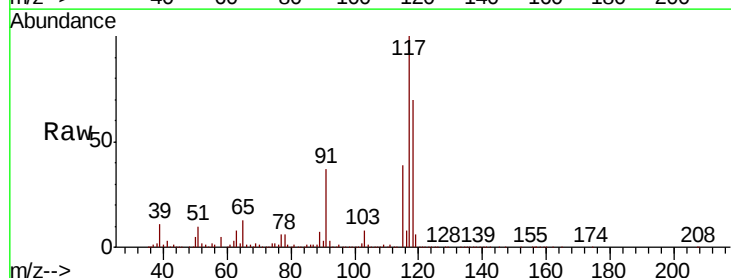
Instrument :
 MSVOA_W
 ClientSampleId :
 GASG9

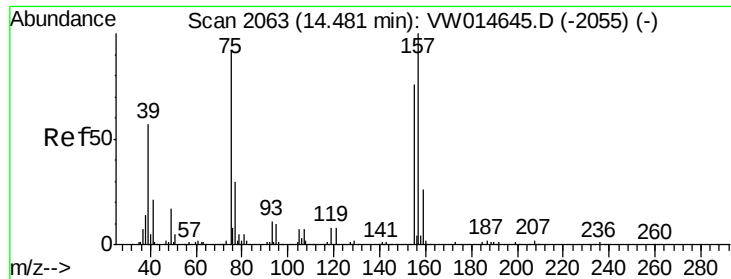
Tot Ion: 83 Resp: 5209
 Ion Ratio Lower Upper
 83 100
 85 59.6 45.3 84.1
 131 11.0 8.0 12.0



#59
 1,2,3-Trichloropropane
 Concen: 9.346 ug/L
 RT: 12.74 min Scan# 1777
 Delta R.T. -0.03 min
 Lab File: VW014652.D
 Acq: 15 Jan 2020 14:17

Tgt Ion: 75 Resp: 17215
 Ion Ratio Lower Upper
 75 100
 77 346.4 26.2 39.2#





#66

1,2-Dibromo-3-chloropropane

Concen: 1049.304 ug/L

RT: 14.49 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Instrument :

MSVOA_W

ClientSampleId :

GASG9

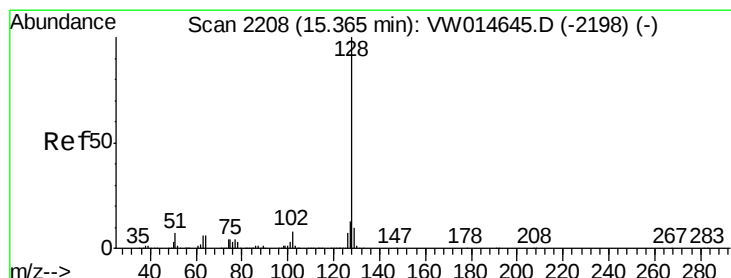
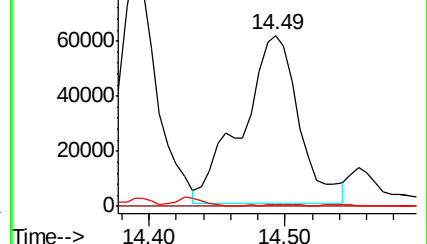
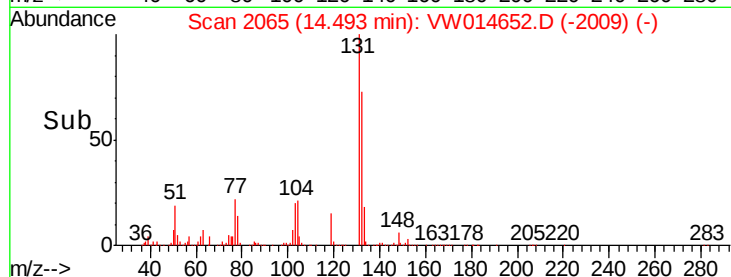
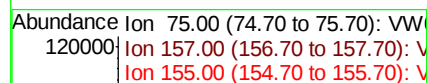
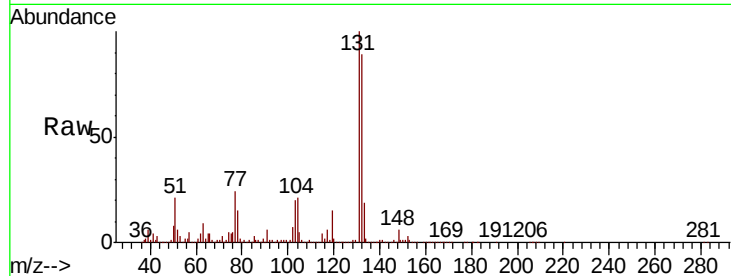
Tot Ion: 75 Resp: 178974

Ion Ratio Lower Upper

75 100

157 0.0 87.2 130.8#

155 1.1 67.8 101.8#



#69

Naphthalene

Concen: 1061.994 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014652.D

Acq: 15 Jan 2020 14:17

Tgt Ion: 128 Resp: 2615885

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

127 13.1 10.6 16.0

