

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013043.D
 Acq On : 16 Sep 2019 15:58
 Operator : SY/VA
 Sample : K4764-02RE
 Misc : 5.45G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-VOC-2

Quant Time: Sep 17 07:21:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	289021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	436877	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	373037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	164575	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	148141	55.50	ug/l	0.00
Spiked Amount			Recovery	=	111.00%	
35) Dibromofluoromethane	7.88	113	125795	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
50) Toluene-d8	10.32	98	518055	55.85	ug/l	0.00
Spiked Amount			Recovery	=	111.70%	
62) 4-Bromofluorobenzene	12.62	95	168389	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	

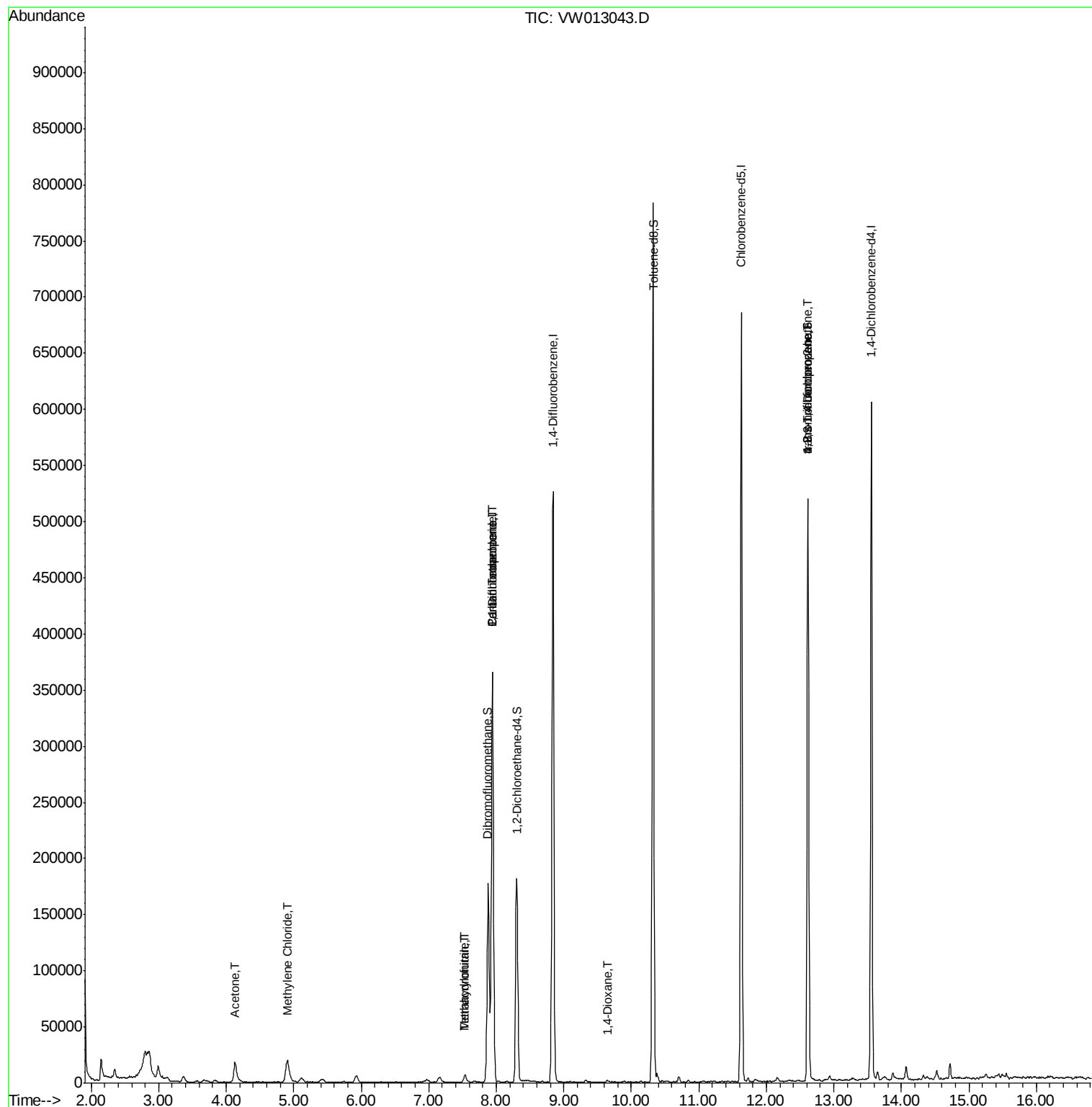
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	48	Below Cal	#	44
3) Chloromethane	2.20	50	604	Below Cal	#	87
11) Tert butyl alcohol	5.20	59	289	Below Cal	#	72
13) Acrolein	3.91	56	48	Below Cal	#	15
16) Acetone	4.12	43	34775	43.925	ug/l	91
20) Methylene Chloride	4.91	84	13935	1.423	ug/l #	85
26) 2,2-Dichloropropane	7.17	77	101	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	6180	12.779	ug/l	97
31) Cyclohexane	7.95	56	6212	Below Cal	#	22
36) 1,1-Dichloropropene	7.95	75	21415	6.134	ug/l #	52
38) Carbon Tetrachloride	7.95	117	27095	7.574	ug/l #	16
41) Methacrylonitrile	7.53	41	3398	2.785	ug/l #	52
49) 1,4-Dioxane	9.65	88	25	1.203	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	85778	59.504	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	85778	134.984	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

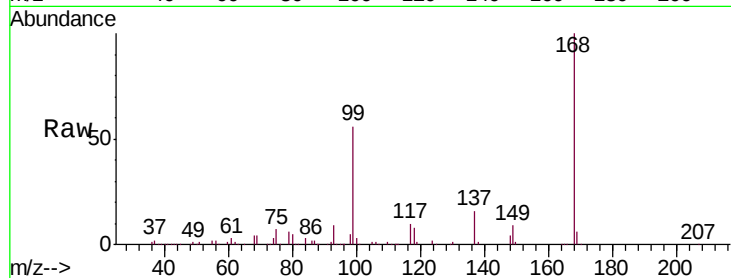
ROLL-OFF-VOC-2

Tgt Ion:168 Resp: 289021

Ion Ratio Lower Upper

168 100

99 56.3 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

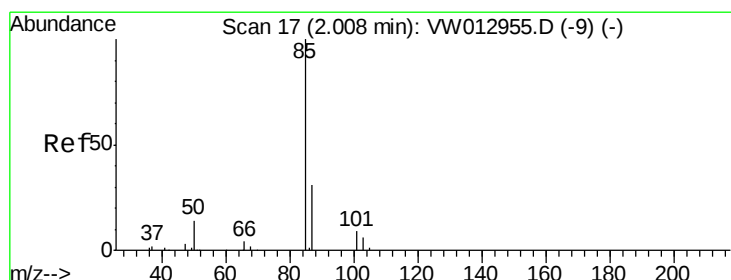
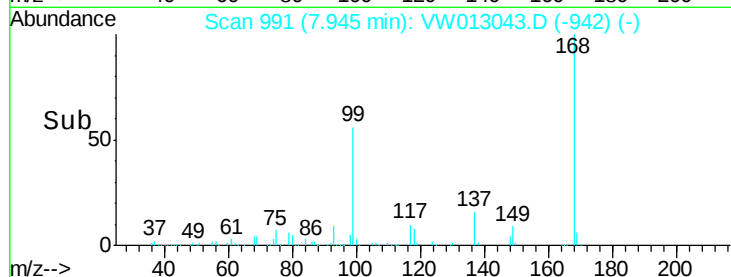
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013043.D

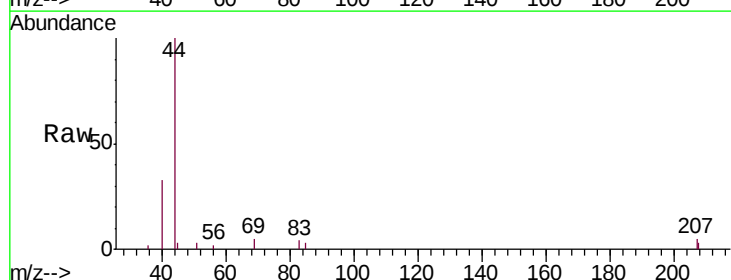
Acq: 16 Sep 2019 15:58

Tgt Ion: 85 Resp: 48

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

80

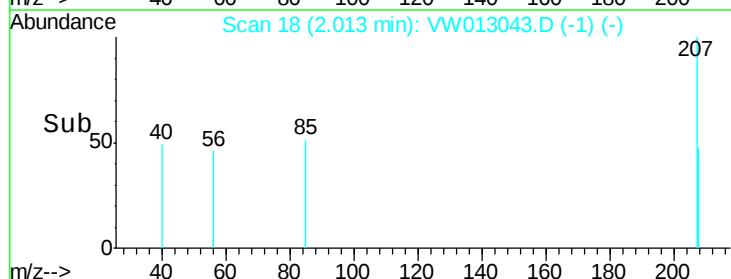
60

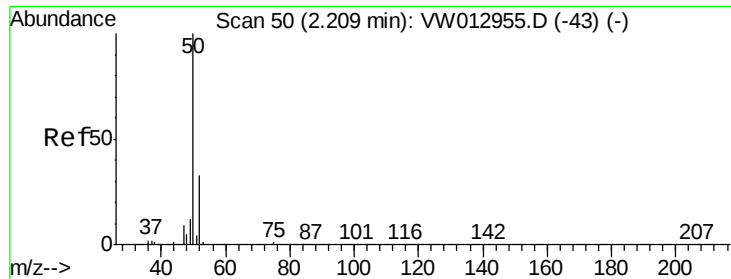
40

20

0

Time--> 1.99 2.00 2.01 2.02 2.03





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

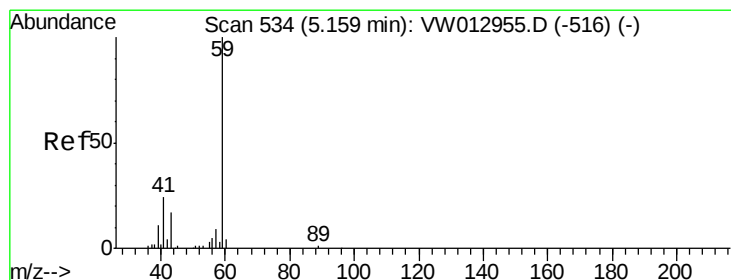
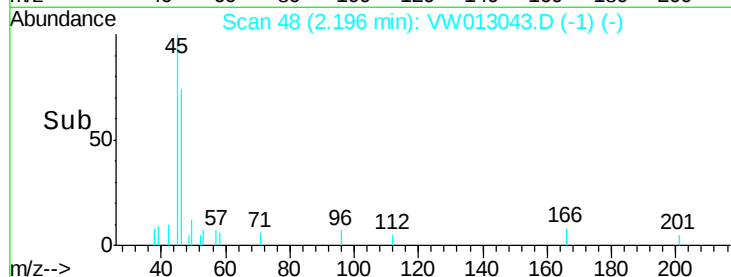
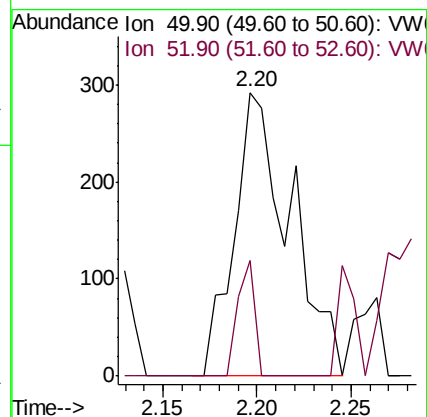
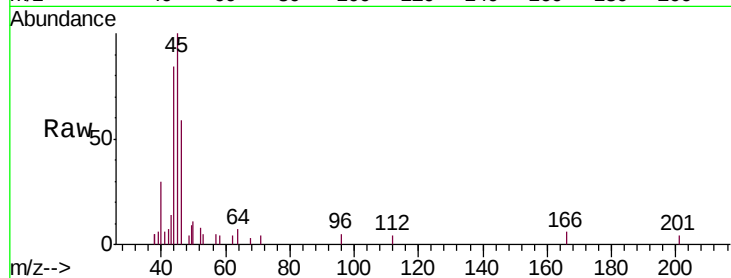
ROLL-OFF-VOC-2

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

50 100

52 40.8 26.6 39.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 540

Delta R.T. 0.04 min

Lab File: VW013043.D

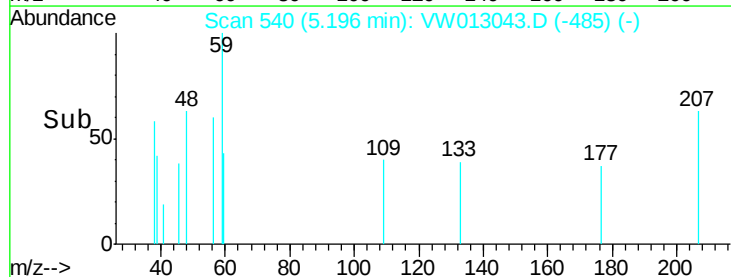
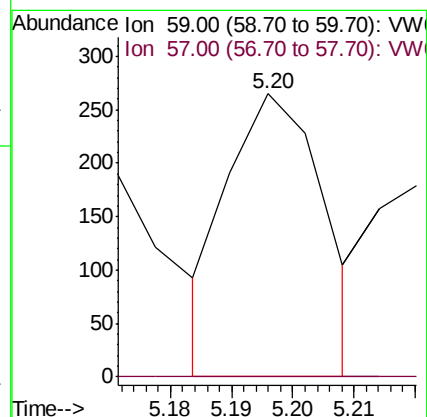
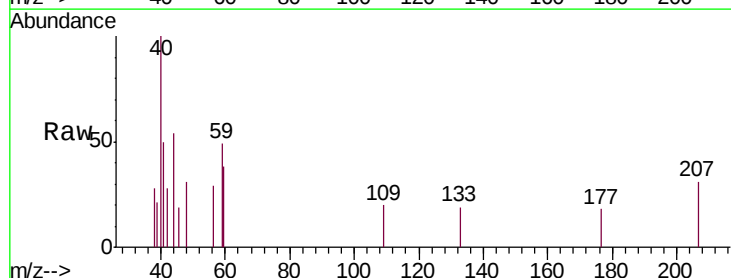
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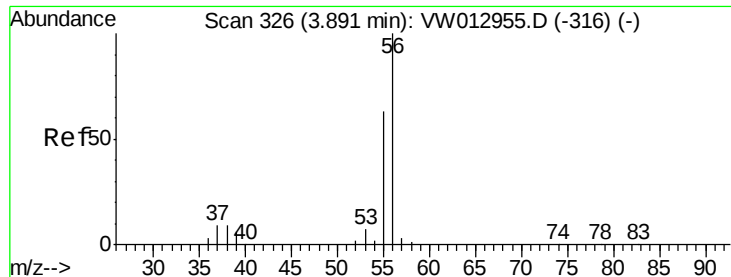
Tgt Ion: 59 Resp: 289

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

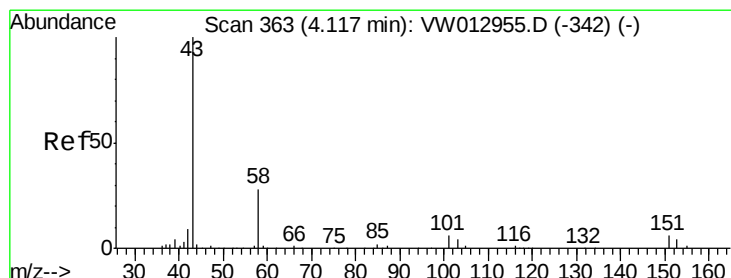
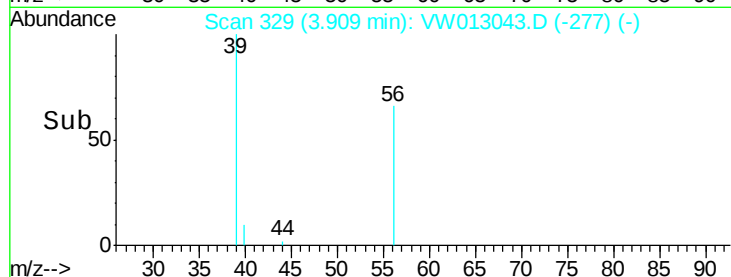
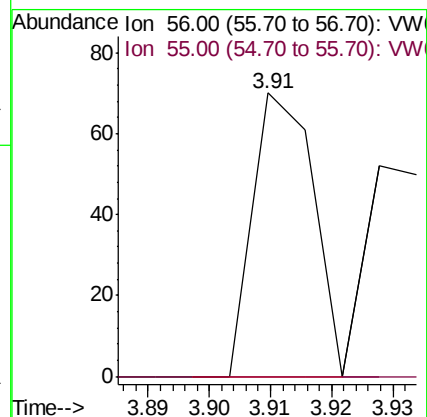
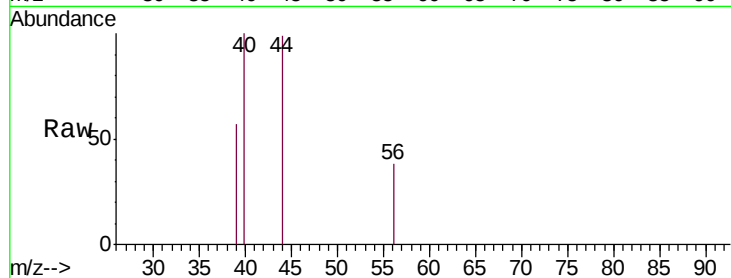
ROLL-OFF-VOC-2

Tgt Ion: 56 Resp: 48

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: 43.925 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW013043.D

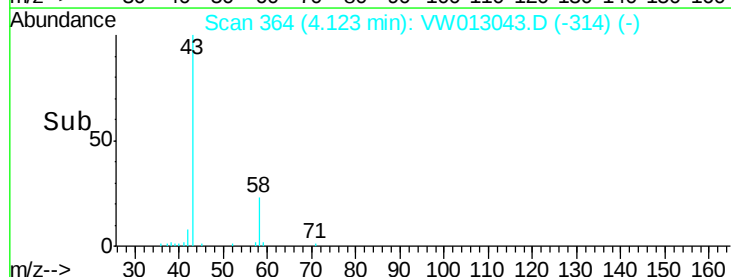
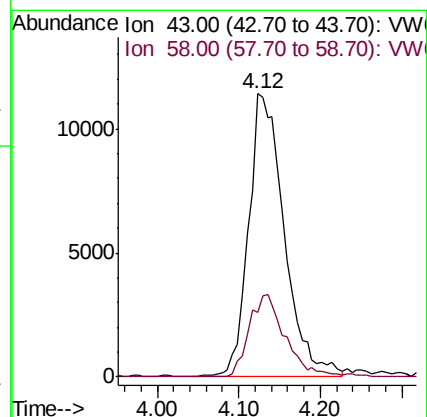
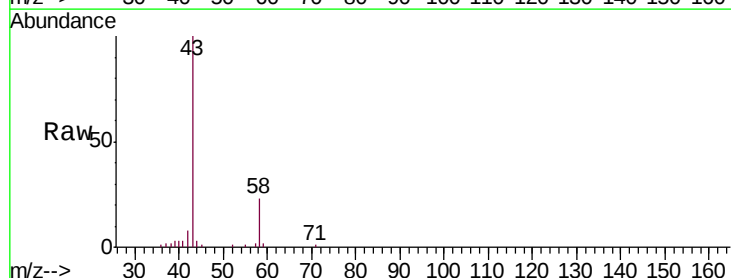
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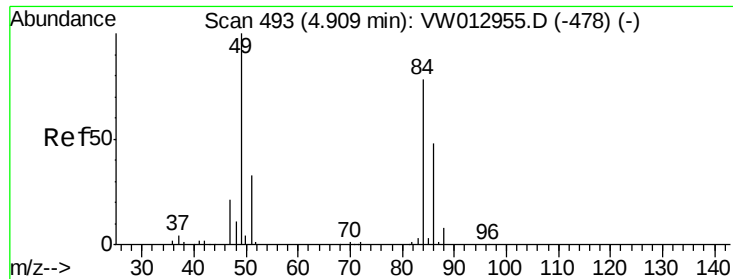
Tgt Ion: 43 Resp: 34775

Ion Ratio Lower Upper

43 100

58 23.0 22.3 33.5

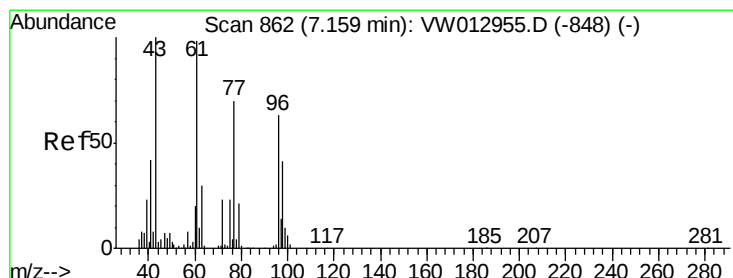
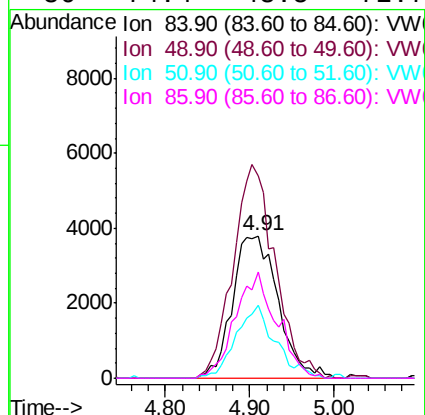
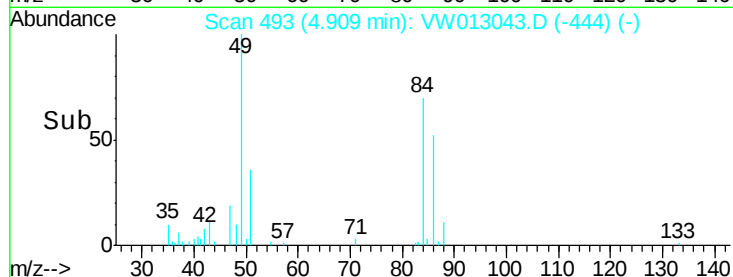
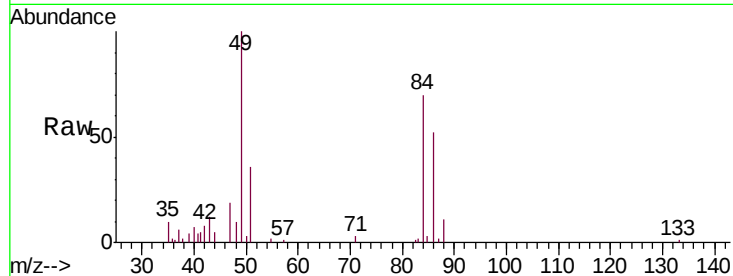




#20
Methylene Chloride
Concen: 1.423 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013043.D
Acq: 16 Sep 2019 15:58

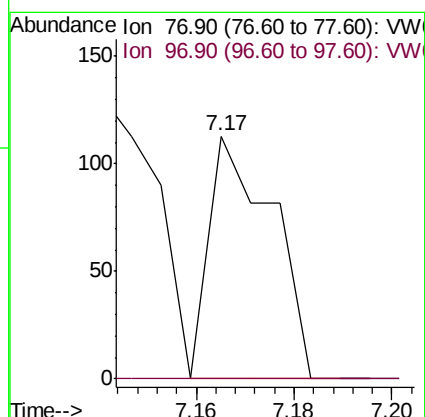
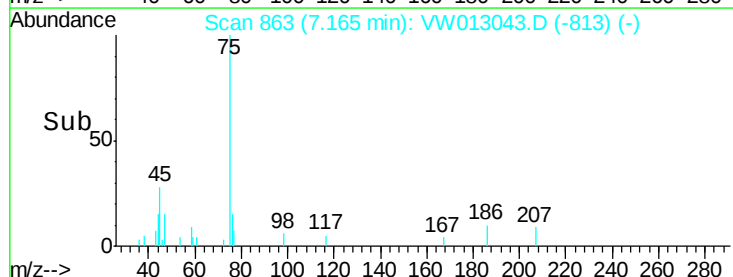
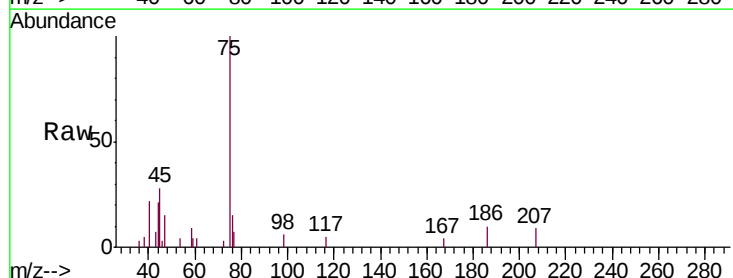
Instrument :
MSVOA_W
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ROLL-OFF-VOC-2

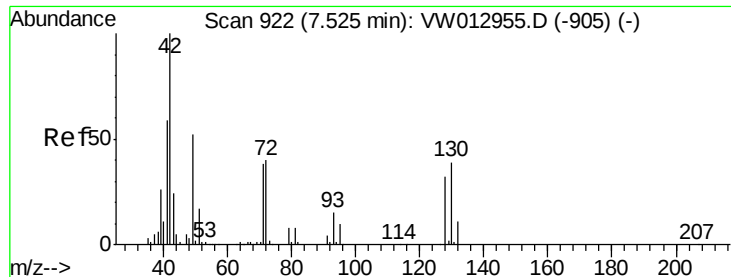
Tgt Ion: 84 Resp: 13935
Ion Ratio Lower Upper
84 100
49 142.5 102.0 153.0
51 51.3 34.0 51.0#
86 74.4 48.5 72.7#



#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW013043.D
Acq: 16 Sep 2019 15:58

Tgt Ion: 77 Resp: 101
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#

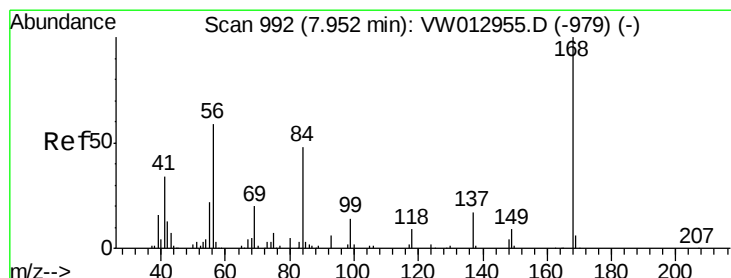
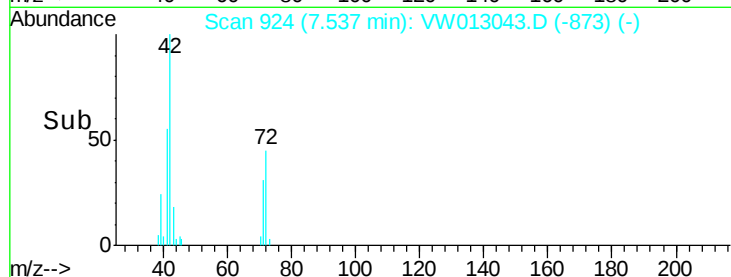
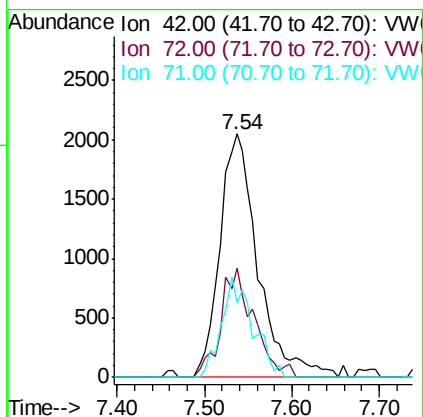
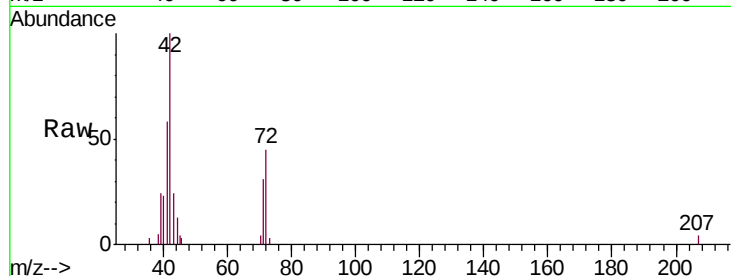




#29
Tetrahydrofuran
Concen: 12.779 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013043.D
Acq: 16 Sep 2019 15:58

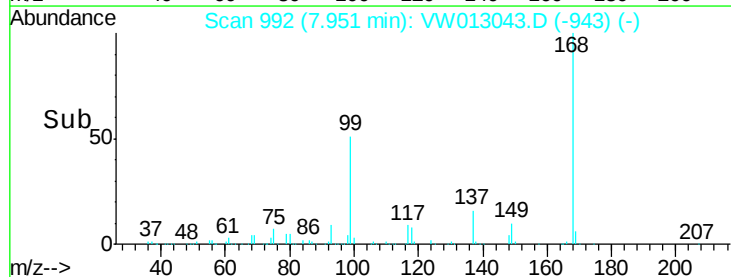
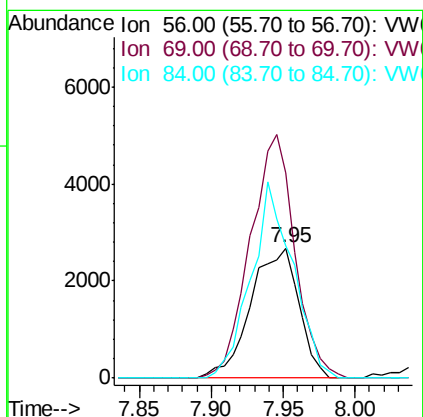
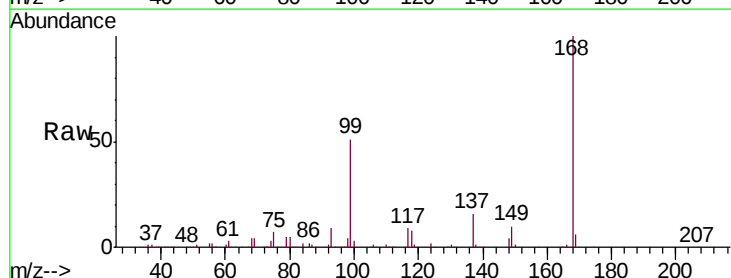
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-VOC-2

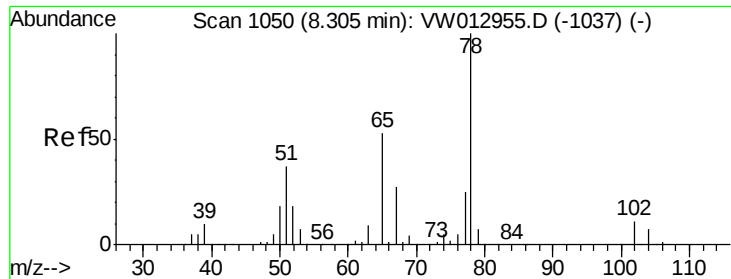
Tgt Ion: 42 Resp: 6180
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 33.6 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013043.D
Acq: 16 Sep 2019 15:58

Tgt Ion: 56 Resp: 6212
Ion Ratio Lower Upper
56 100
69 158.3 27.0 40.6#
84 101.5 66.2 99.2#

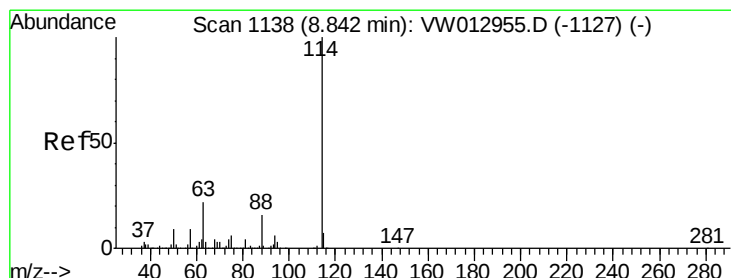
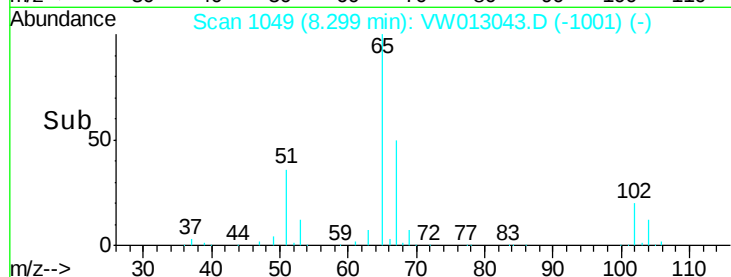
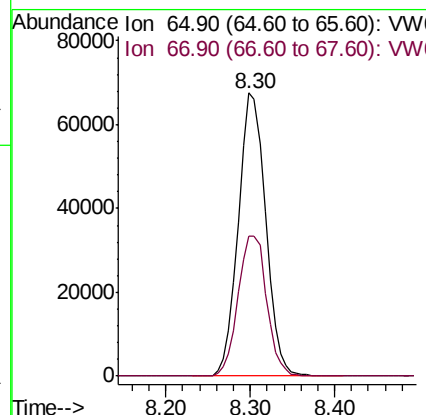
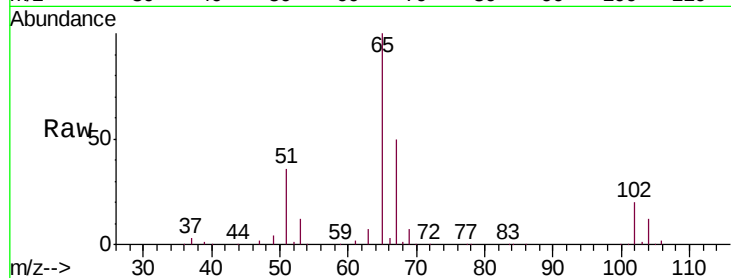




#33
 1,2-Dichloroethane-d4
 Concen: 55.498 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013043.D
 Acq: 16 Sep 2019 15:58

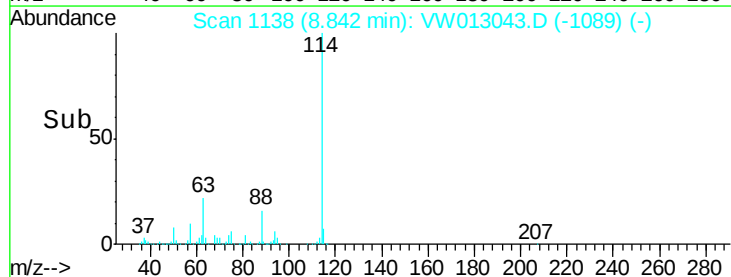
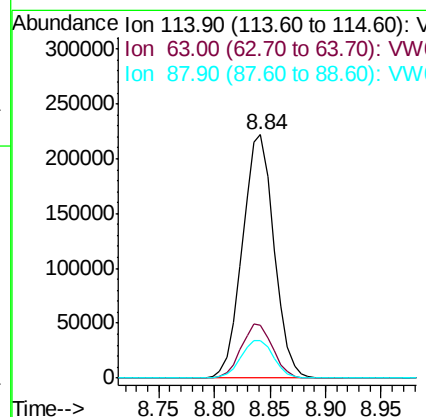
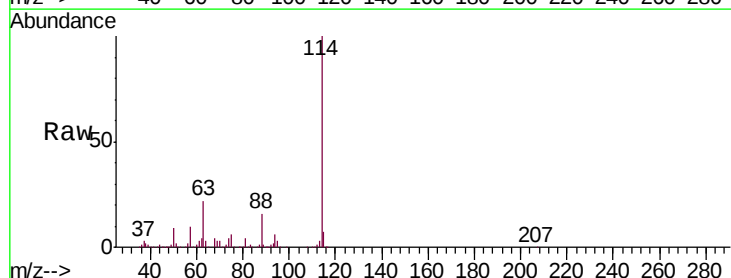
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 ROLL-OFF-VOC-2

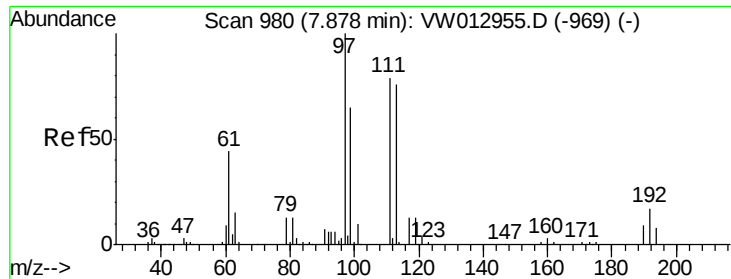
Tgt Ion: 65 Resp: 148141
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013043.D
 Acq: 16 Sep 2019 15:58

Tgt Ion: 114 Resp: 436877
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.4
 88 15.5 0.0 31.6

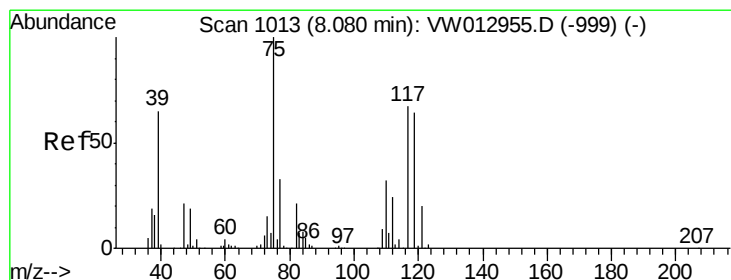
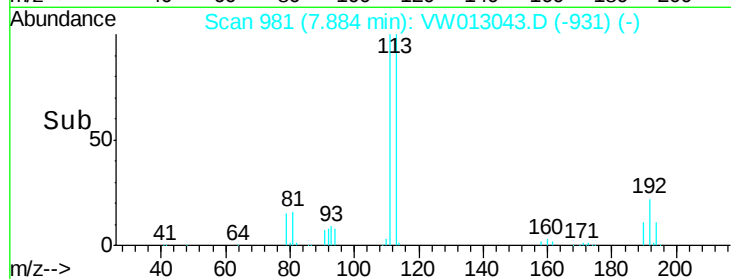
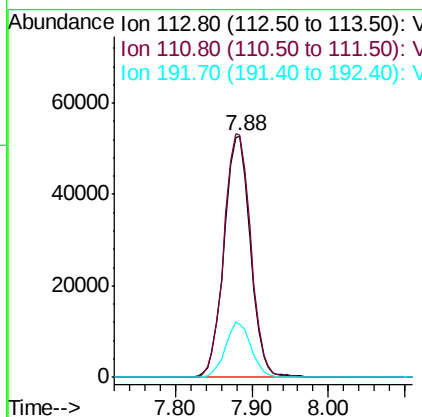
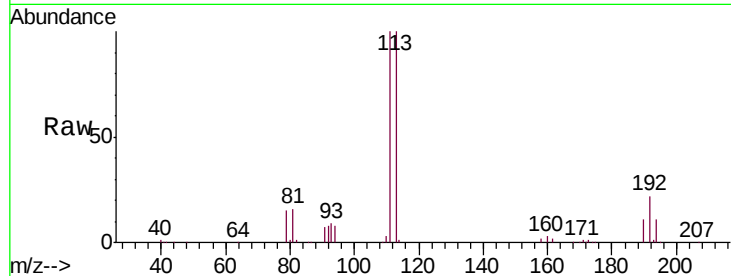




#35
 Dibromofluoromethane
 Concen: 53.066 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013043.D
 Acq: 16 Sep 2019 15:58

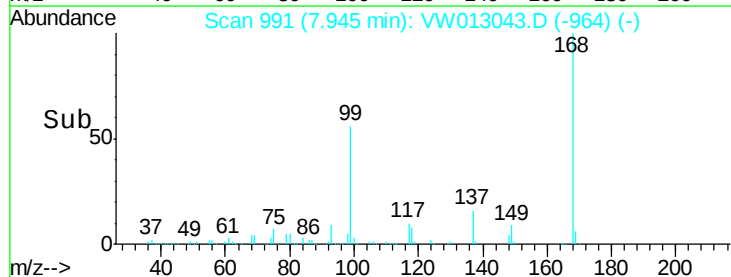
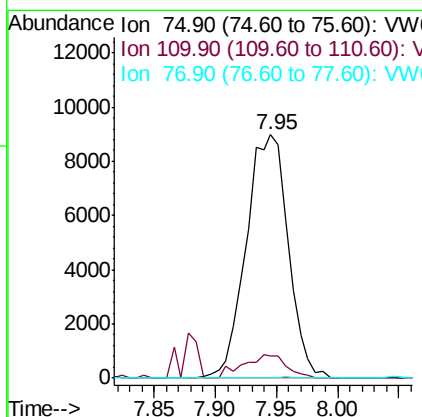
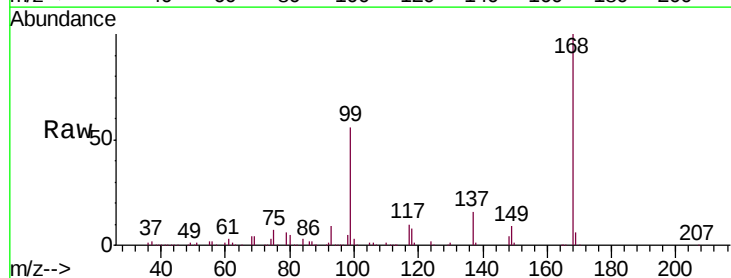
Instrument :
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 ROLL-OFF-VOC-2

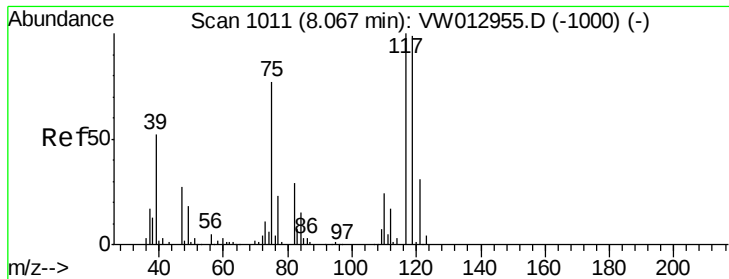
Tgt Ion:113 Resp: 125795
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 22.4 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 6.134 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013043.D
 Acq: 16 Sep 2019 15:58

Tgt Ion: 75 Resp: 21415
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.4 49.1#
 77 0.1 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 7.574 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-VOC-2

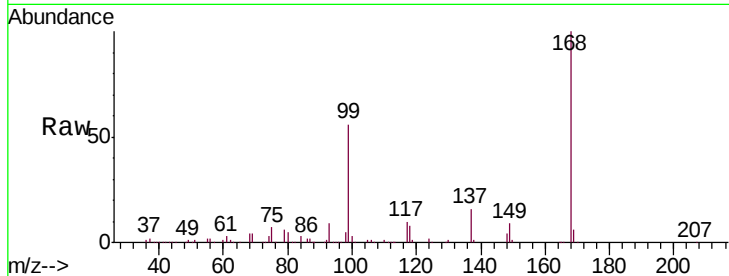
Tgt Ion:117 Resp: 27095

Ion Ratio Lower Upper

117 100

119 6.4 79.4 119.0#

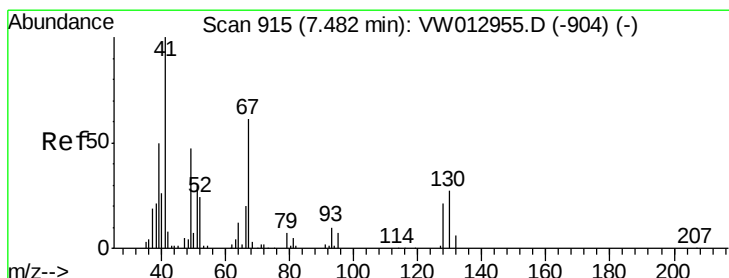
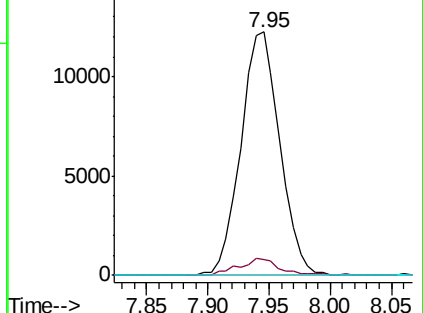
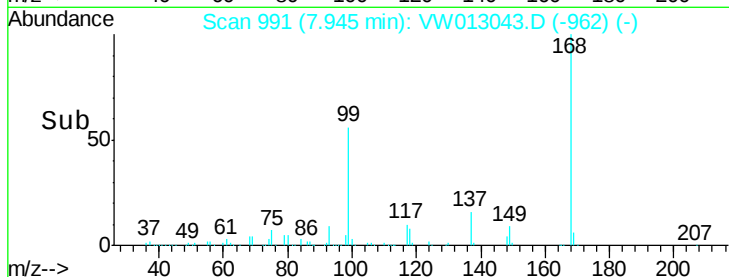
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.785 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Tgt Ion: 41 Resp: 3398

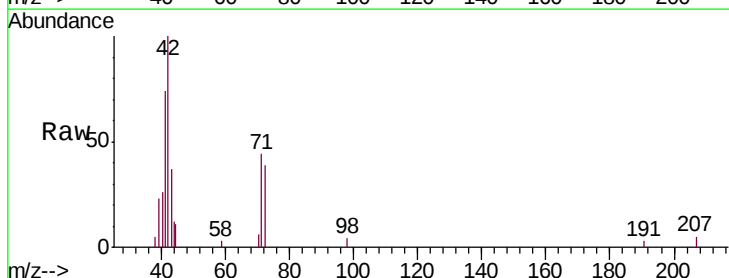
Ion Ratio Lower Upper

41 100

39 47.6 48.2 72.4#

67 0.0 47.5 71.3#

52 0.0 21.0 31.4#

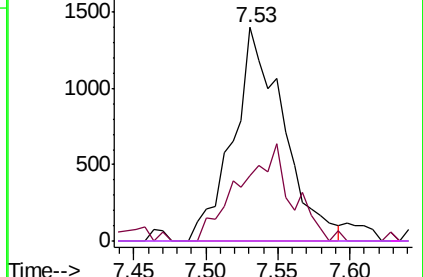
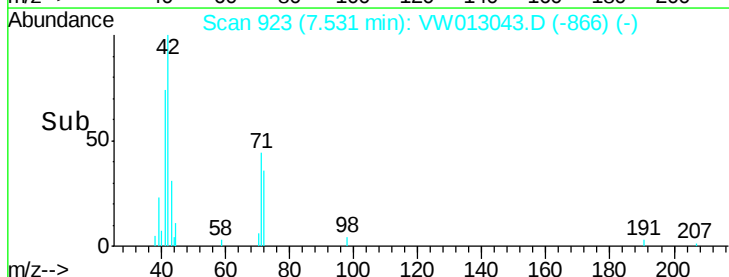


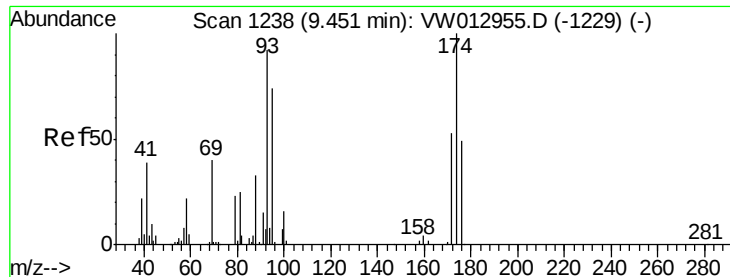
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#49

1,4-Dioxane

Concen: 1.203 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.19 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-VOC-2

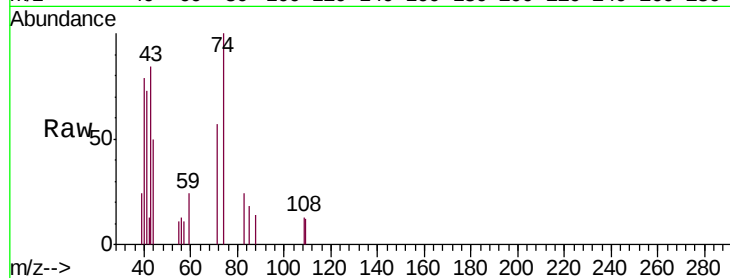
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 3592.0 31.3 46.9#

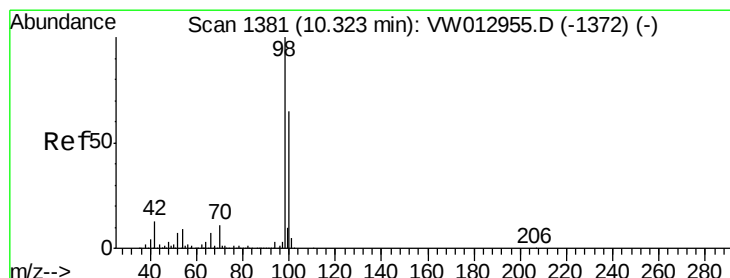
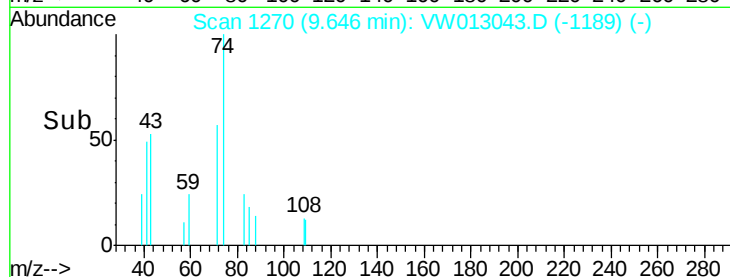
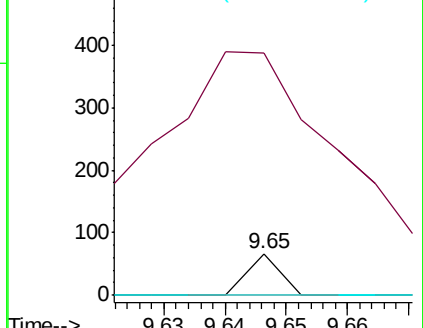
58 0.0 60.2 90.2#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 55.848 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013043.D

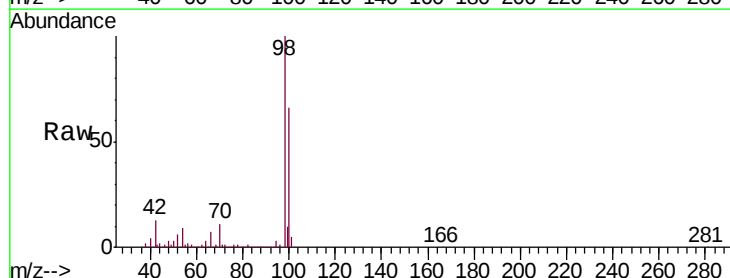
Acq: 16 Sep 2019 15:58

Tgt Ion: 98 Resp: 518055

Ion Ratio Lower Upper

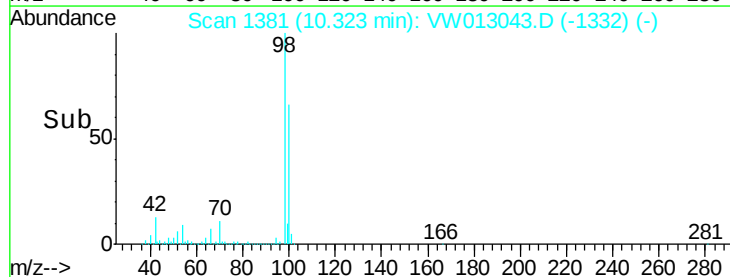
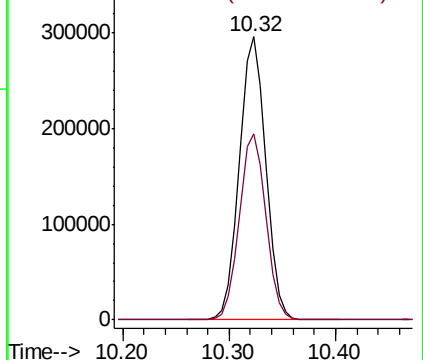
98 100

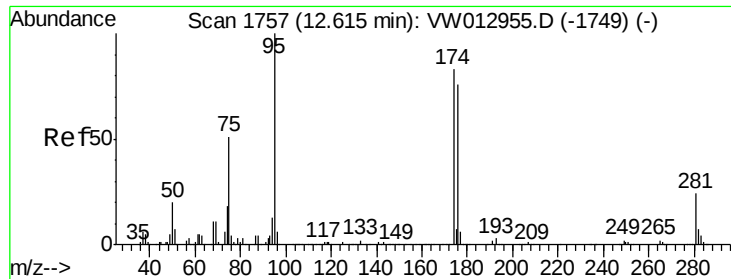
100 65.8 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

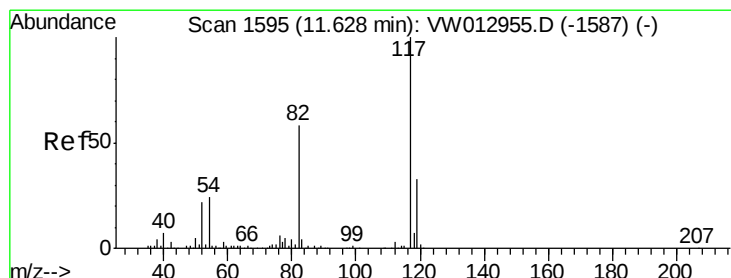
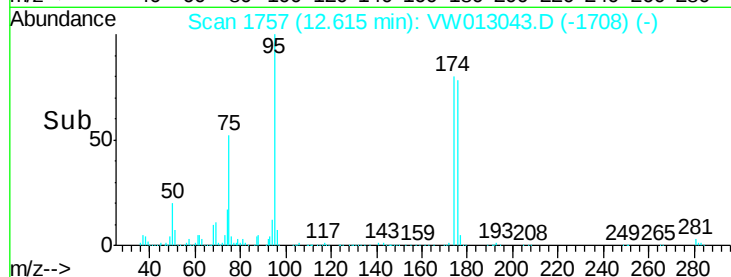
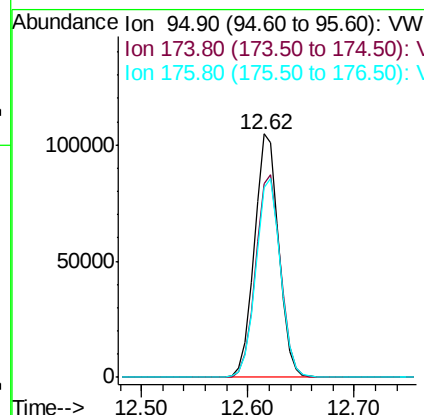
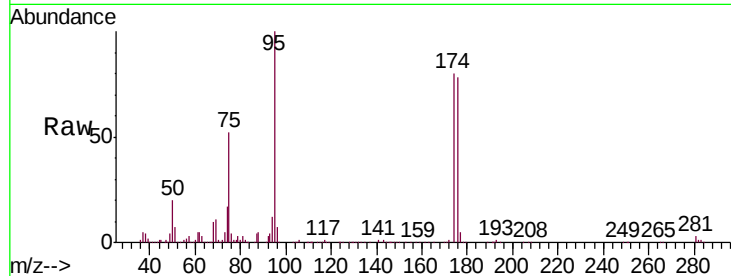




#62
4-Bromofluorobenzene
Concen: 50.484 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013043.D
Acq: 16 Sep 2019 15:58

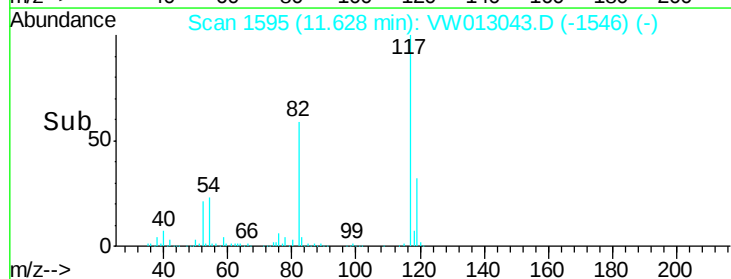
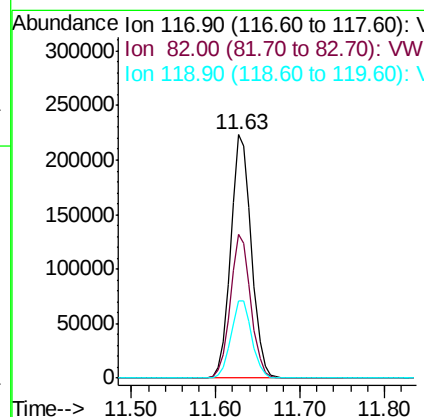
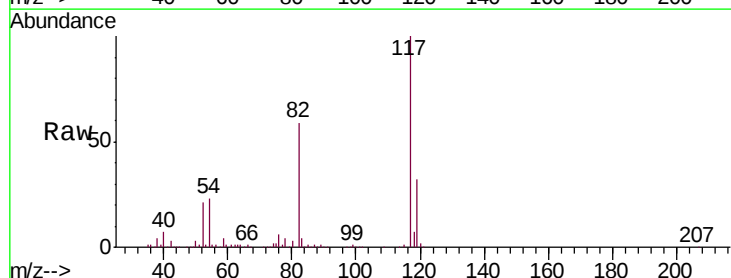
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-VOC-2

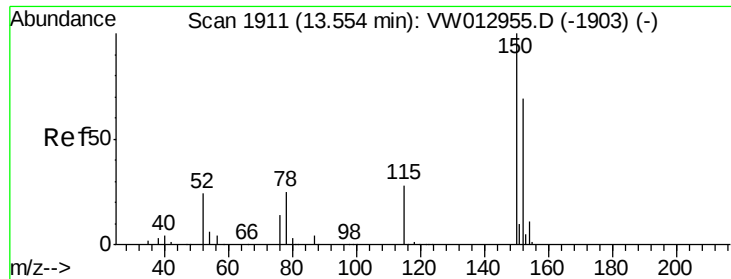
Tgt Ion: 95 Resp: 168389
Ion Ratio Lower Upper
95 100
174 84.5 0.0 170.4
176 82.3 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013043.D
Acq: 16 Sep 2019 15:58

Tgt Ion: 117 Resp: 373037
Ion Ratio Lower Upper
117 100
82 58.9 46.3 69.5
119 31.9 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-VOC-2

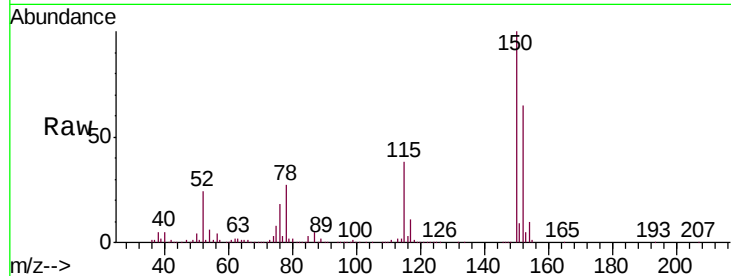
Tgt Ion: 152 Resp: 164575

Ion Ratio Lower Upper

152 100

115 57.7 28.8 86.4

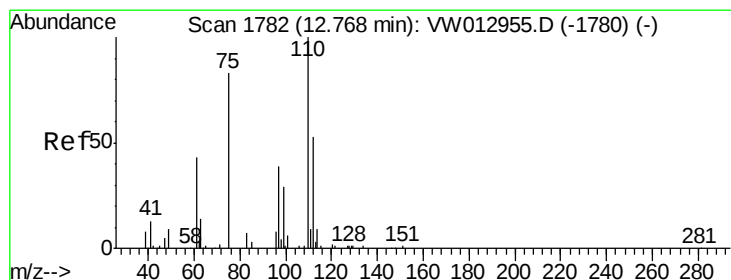
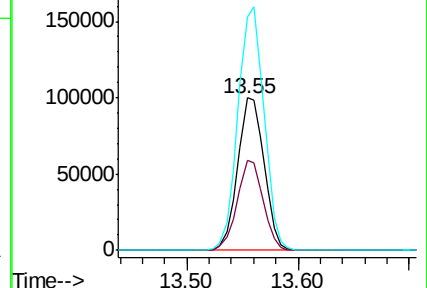
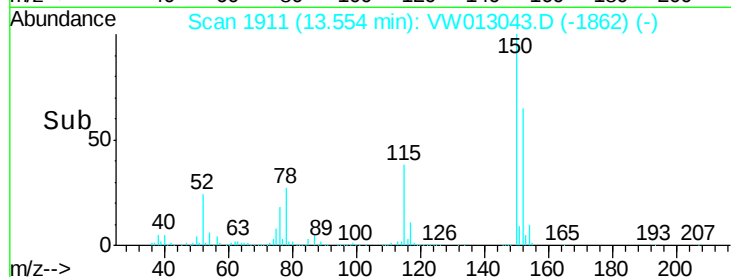
150 157.7 0.0 340.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 59.504 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013043.D

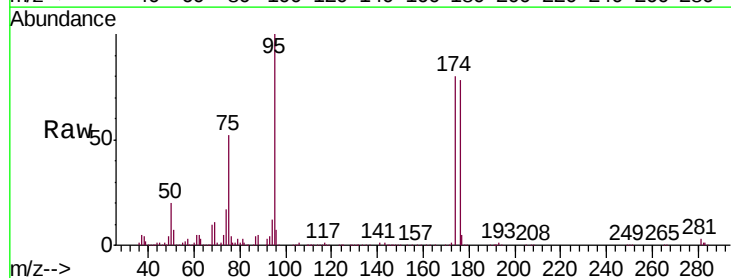
Acq: 16 Sep 2019 15:58

Tgt Ion: 75 Resp: 85778

Ion Ratio Lower Upper

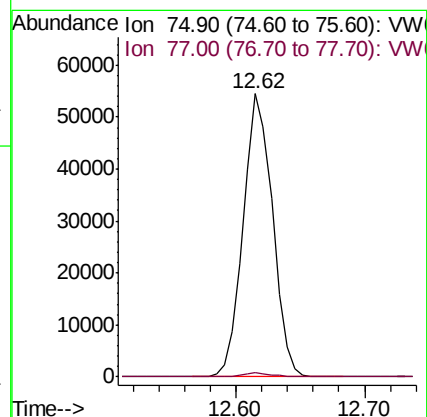
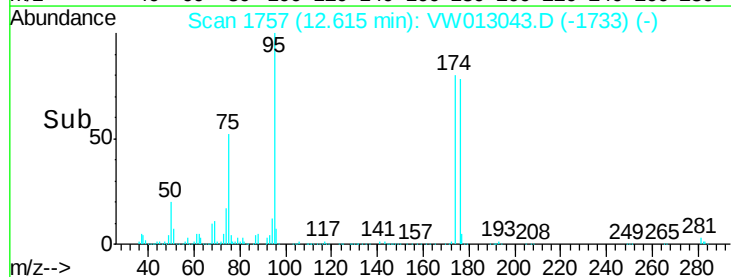
75 100

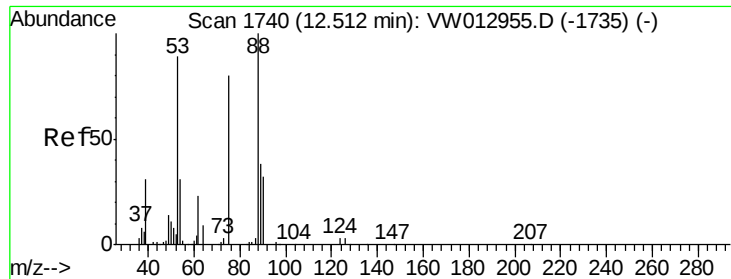
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 134.984 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013043.D

Acq: 16 Sep 2019 15:58

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-VOC-2

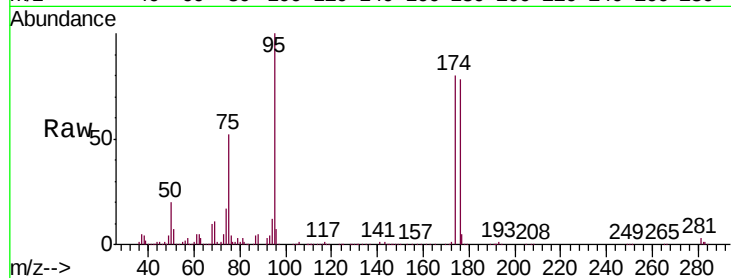
Tgt Ion: 75 Resp: 85778

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.1 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

