

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081020\
 Data File : VD066176.D
 Acq On : 10 Aug 2020 21:08
 Operator : VA/SY
 Sample : L3637-19
 Misc : 7.16G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CAR-WASH-AREA-3

Quant Time: Aug 11 04:38:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

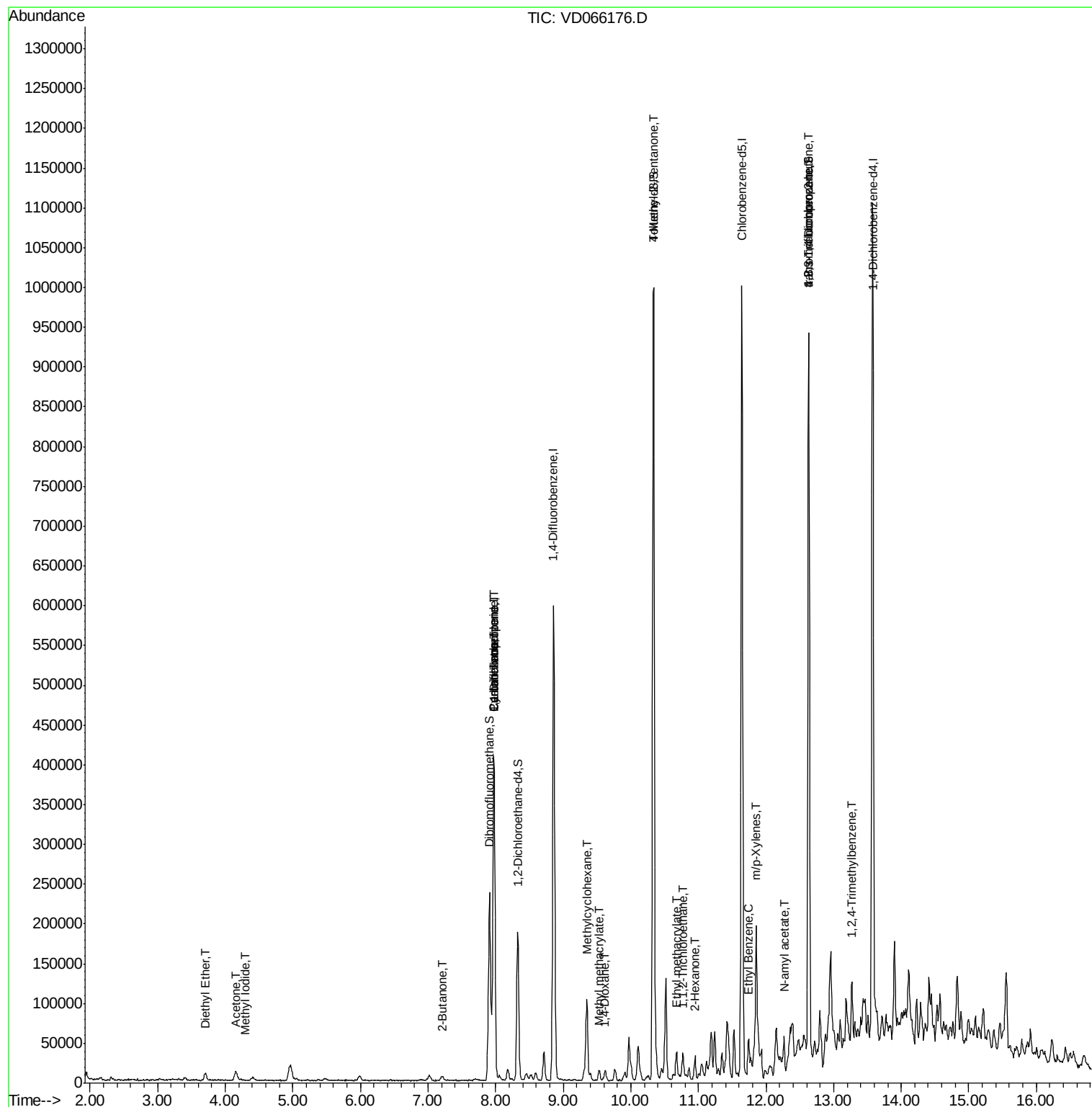
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	311308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	537517	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	599424	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	300102	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	141164	50.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.66%	
35) Dibromofluoromethane	7.91	113	162084	47.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.20%	
50) Toluene-d8	10.34	98	664896	52.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.82%	
62) 4-Bromofluorobenzene	12.63	95	288399	63.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	127.34%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.71	74	5065	3.645	ug/l	88
10) Methyl Iodide	4.29	142	118	6.750	ug/l #	39
11) Tert butyl alcohol	5.21	59	164	Below Cal	#	76
16) Acetone	4.16	43	20511	38.922	ug/l	98
25) 2-Butanone	7.21	43	6880	8.876	ug/l #	80
31) Cyclohexane	7.97	56	14963	3.075	ug/l #	61
36) 1,1-Dichloropropene	7.97	75	21715	4.299	ug/l #	50
38) Carbon Tetrachloride	7.97	117	29291	5.200	ug/l #	15
39) Methylcyclohexane	9.35	83	39063	6.398	ug/l	91
48) Methyl methacrylate	9.53	41	3151	1.565	ug/l #	60
49) 1,4-Dioxane	9.61	88	54	2.227	ug/l #	26
51) 4-Methyl-2-Pentanone	10.34	43	5395	2.664	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	13277	4.885	ug/l #	22
56) Ethyl methacrylate	10.67	69	3635	1.113	ug/l #	1
59) 2-Hexanone	10.96	43	12635	8.889	ug/l #	26
67) Ethyl Benzene	11.74	91	27178	1.289	ug/l	96
68) m/p-Xylenes	11.86	106	18876	2.310	ug/l	98
74) N-amyl acetate	12.27	43	9609	2.178	ug/l #	68
76) 1,2,3-Trichloropropane	12.63	75	139665	55.807	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	139665	123.365	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.27	105	43411	2.589	ug/l	95

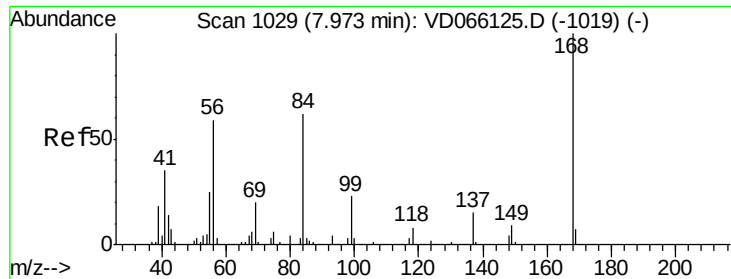
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:49:25 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

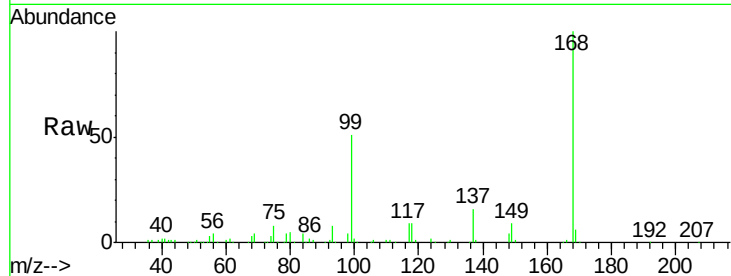
CAR-WASH-AREA-3

Tot Ion:168 Resp: 311308

Ion Ratio Lower Upper

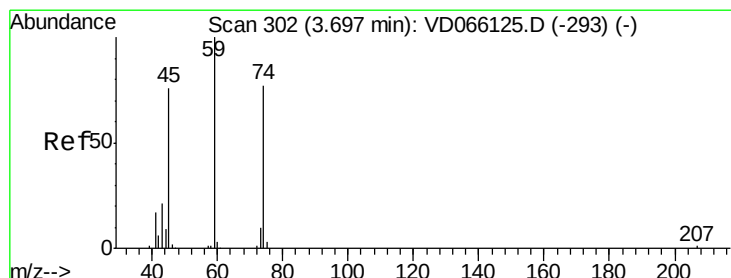
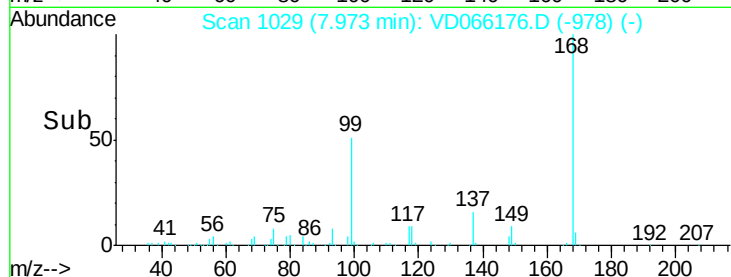
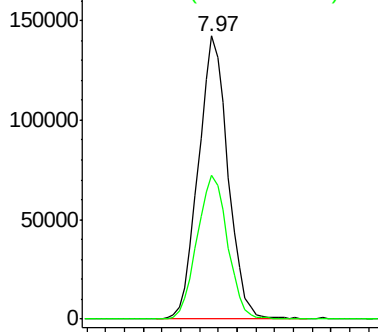
168 100

99 50.8 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#8

Diethyl Ether

Concen: 3.645 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.01 min

Lab File: VD066176.D

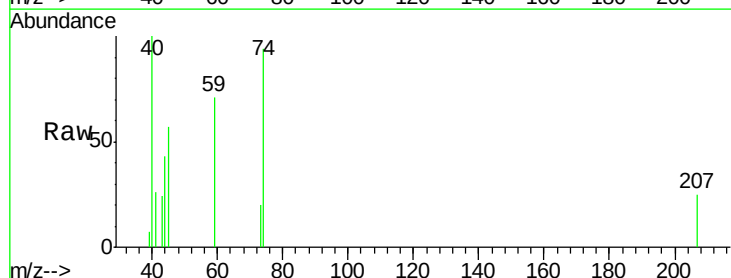
Acq: 10 Aug 2020 21:08

Tgt Ion: 74 Resp: 5065

Ion Ratio Lower Upper

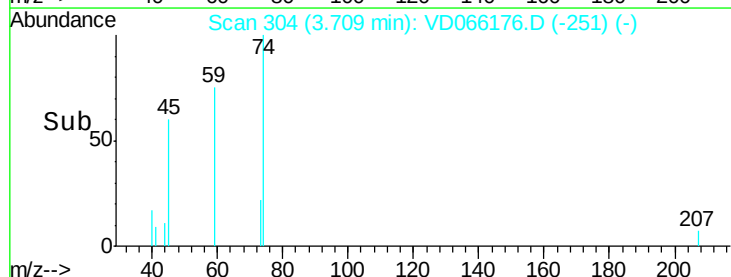
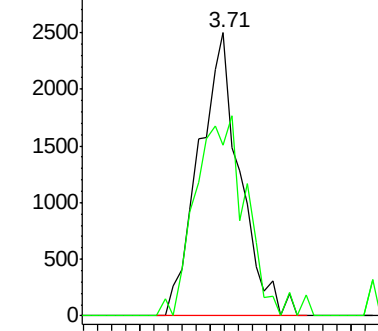
74 100

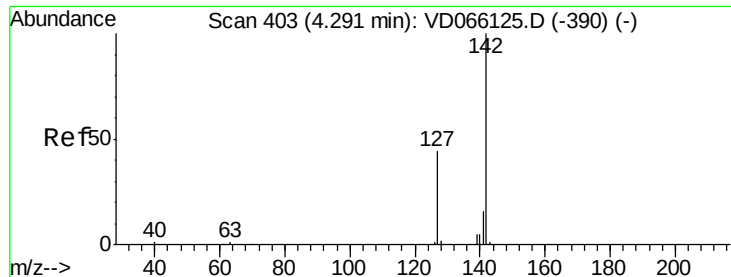
45 84.7 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

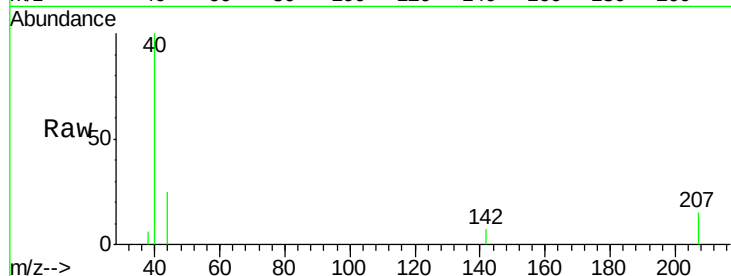




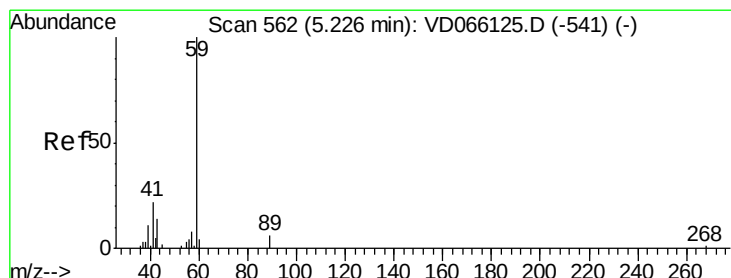
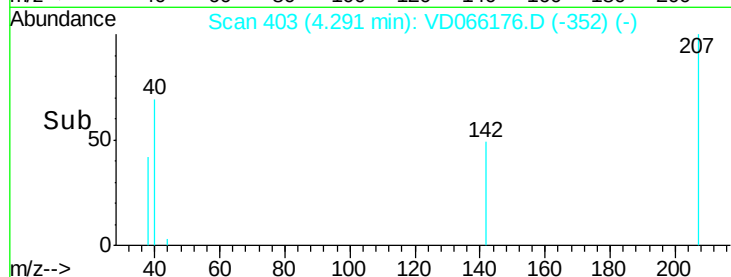
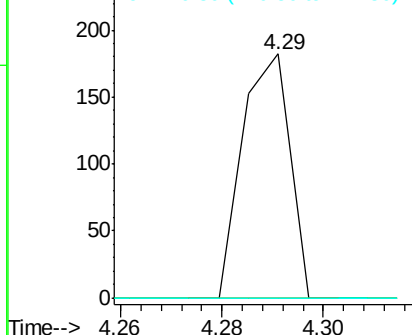
#10
Methyl Iodide
Concen: 6.750 ug/l
RT: 4.29 min Scan# 403
Delta R.T. 0.00 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Instrument :
MSVOA_D
ClientSampleId :
CAR-WASH-AREA-3

Tot Ion:142 Resp: 118
Ion Ratio Lower Upper
142 100
127 0.0 36.2 54.4#
141 0.0 12.6 18.8#

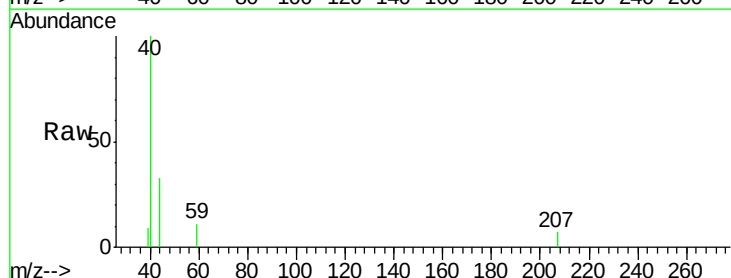


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

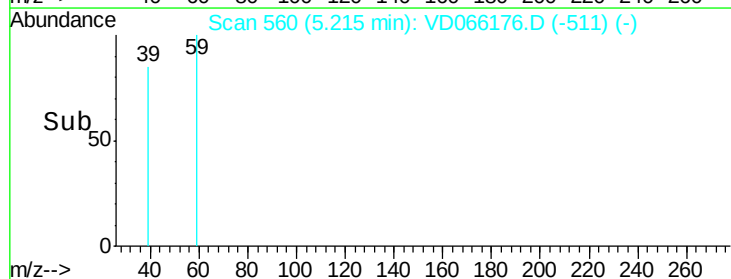
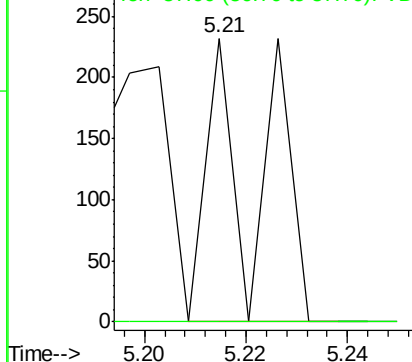


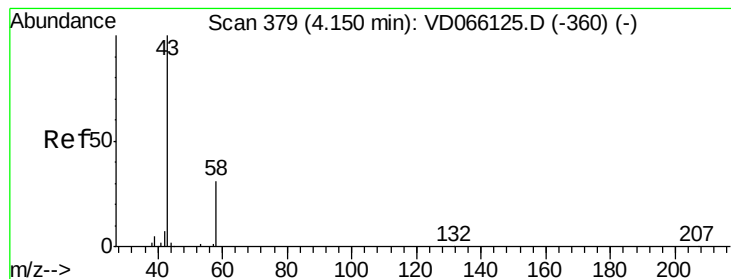
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.21 min Scan# 560
Delta R.T. -0.01 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Tgt Ion: 59 Resp: 164
Ion Ratio Lower Upper
59 100
57 0.0 7.0 10.4#



Abundance Ion 59.00 (58.70 to 59.70): V
Ion 57.00 (56.70 to 57.70): V





#16

Acetone

Concen: 38.922 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

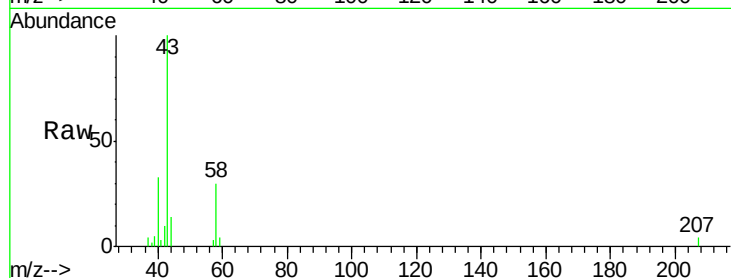
CAR-WASH-AREA-3

Tot Ion: 43 Resp: 20511

Ion Ratio Lower Upper

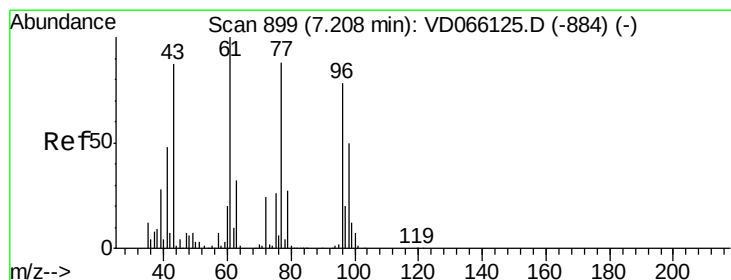
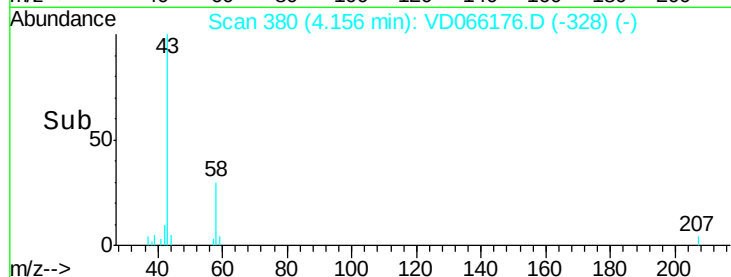
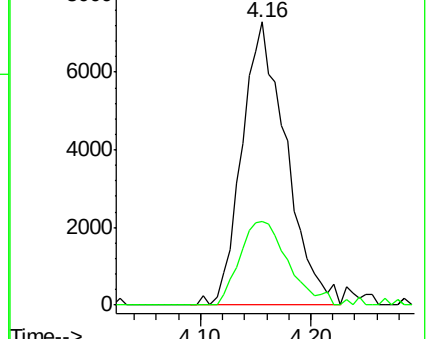
43 100

58 29.7 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 8.876 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD066176.D

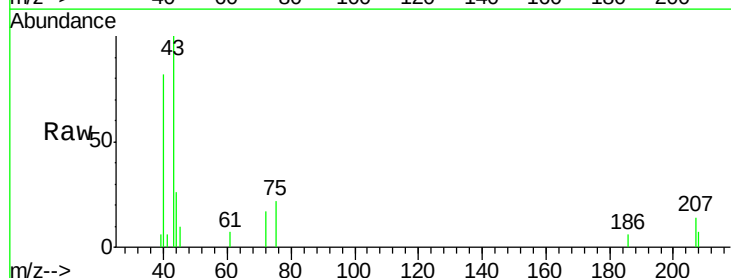
Acq: 10 Aug 2020 21:08

Tgt Ion: 43 Resp: 6880

Ion Ratio Lower Upper

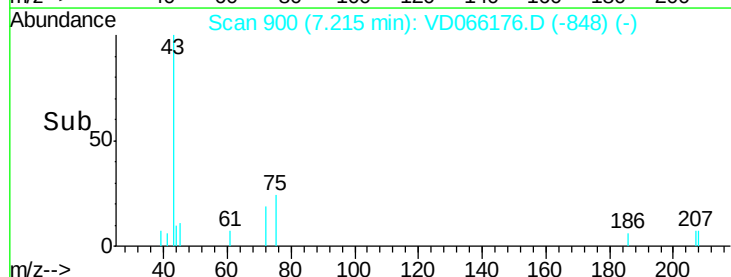
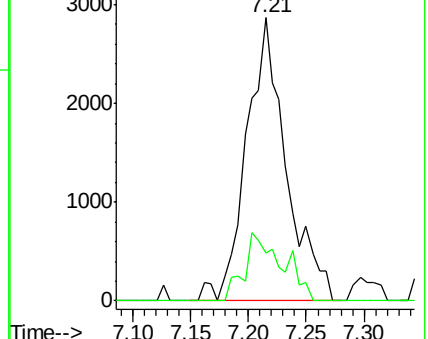
43 100

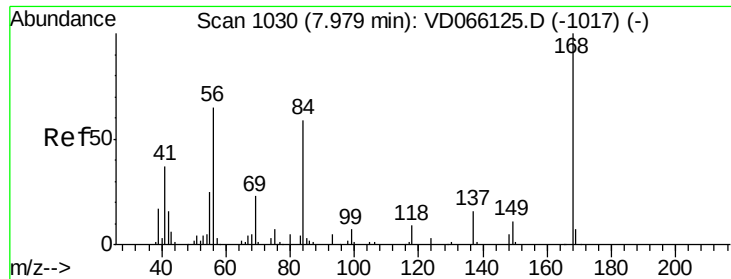
72 17.1 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

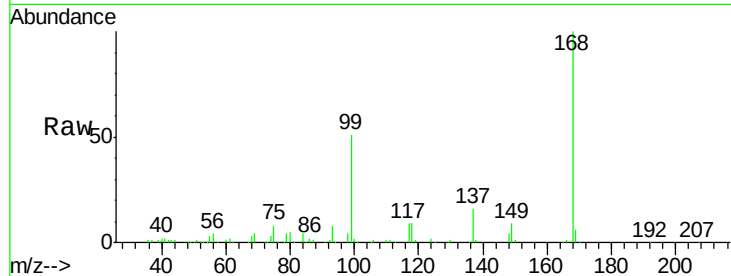




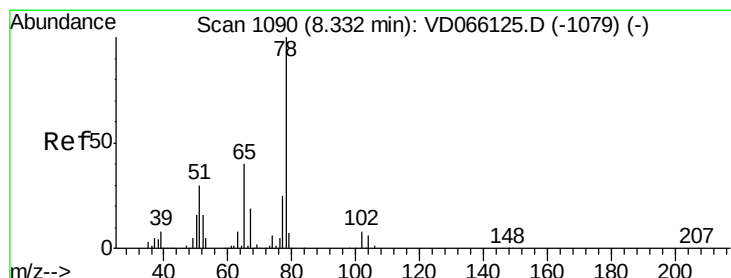
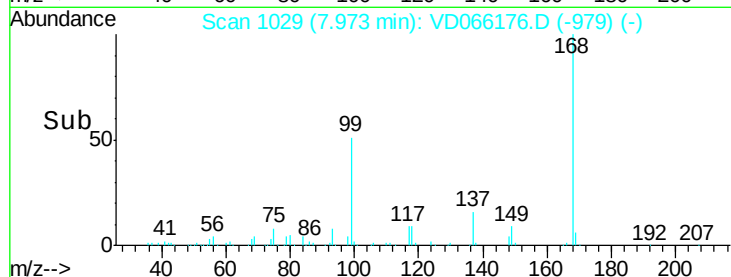
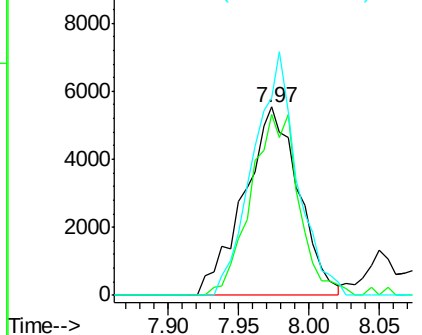
#31
Cyclohexane
Concen: 3.075 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Instrument :
MSVOA_D
ClientSampleId :
CAR-WASH-AREA-3

Tot Ion: 56 Resp: 14963
Ion Ratio Lower Upper
56 100
69 95.8 28.8 43.2#
84 104.9 73.0 109.6

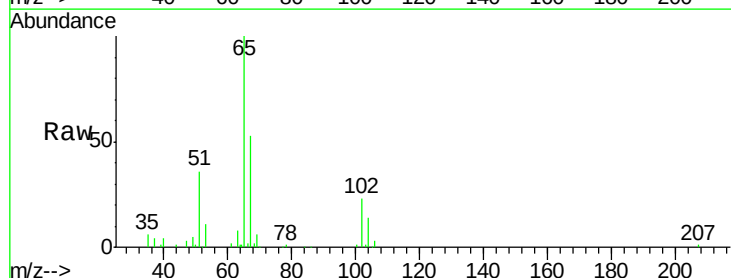


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

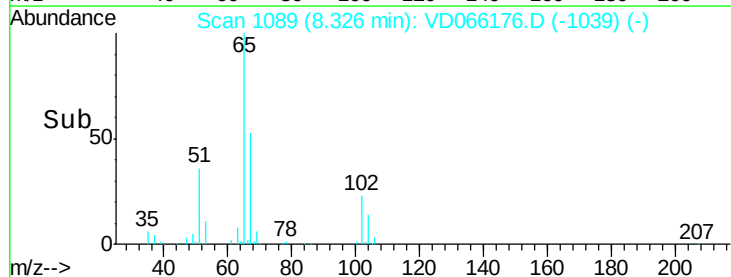
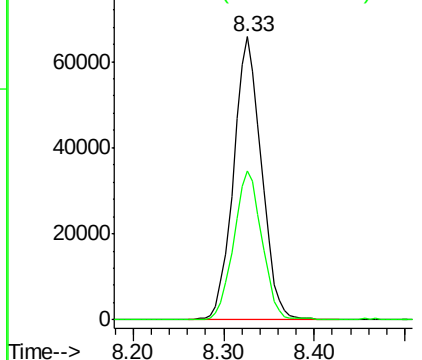


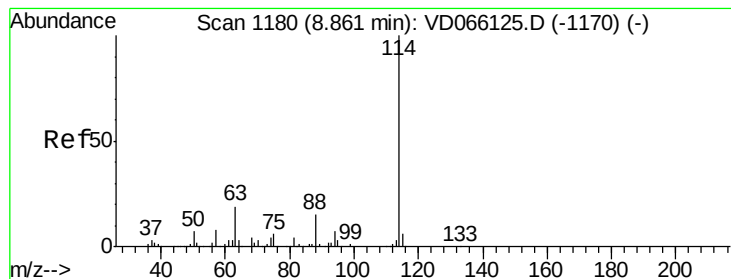
#33
1,2-Dichloroethane-d4
Concen: 50.827 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Tgt Ion: 65 Resp: 141164
Ion Ratio Lower Upper
65 100
67 53.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

CAR-WASH-AREA-3

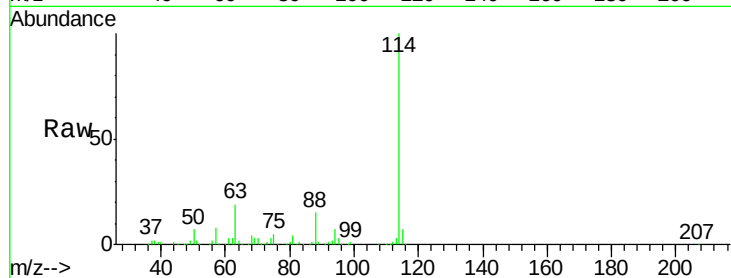
Tot Ion:114 Resp: 537517

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.6

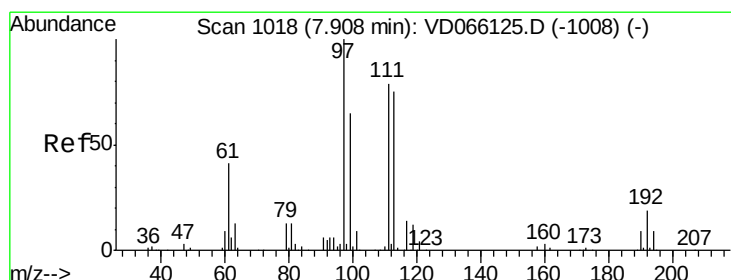
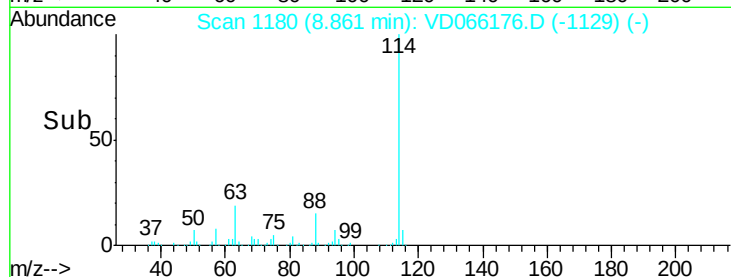
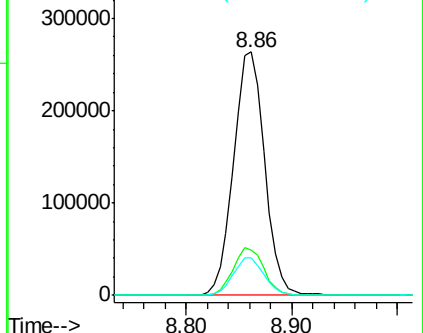
88 15.3 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 47.600 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

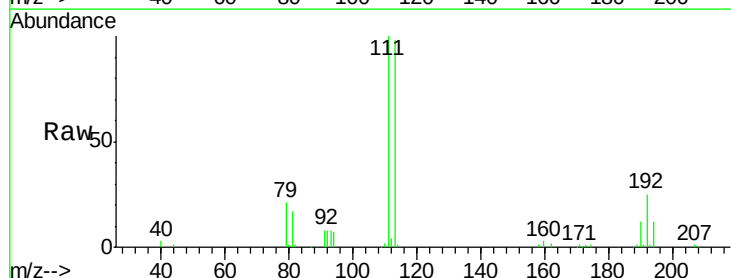
Tgt Ion:113 Resp: 162084

Ion Ratio Lower Upper

113 100

111 104.0 80.7 121.1

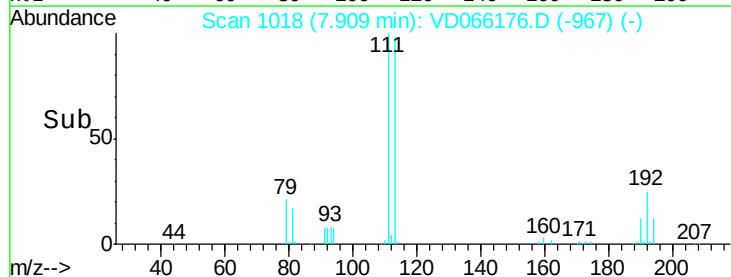
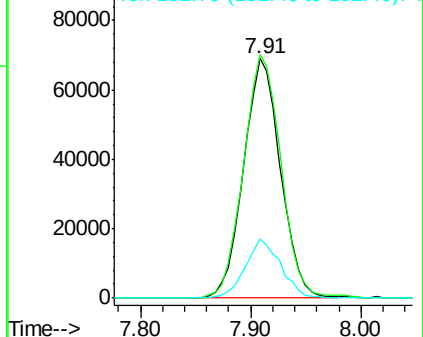
192 23.5 18.4 27.6

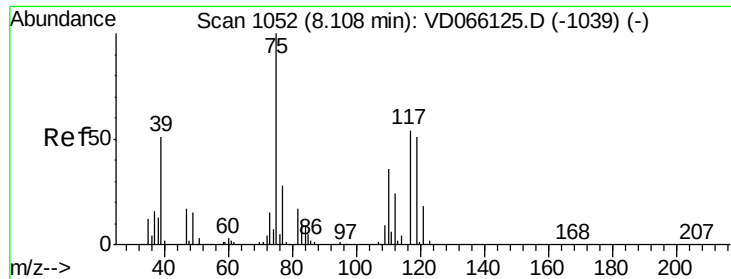


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.299 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

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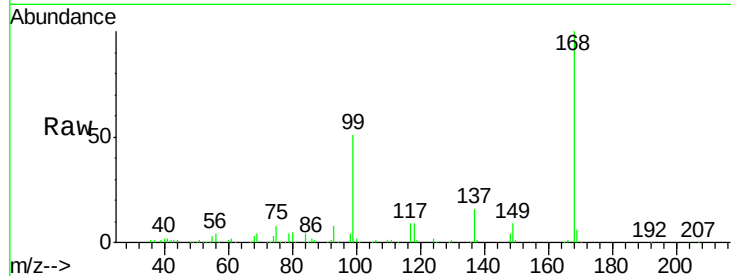
Tot Ion: 75 Resp: 21715

Ion Ratio Lower Upper

75 100

110 9.9 18.8 56.3#

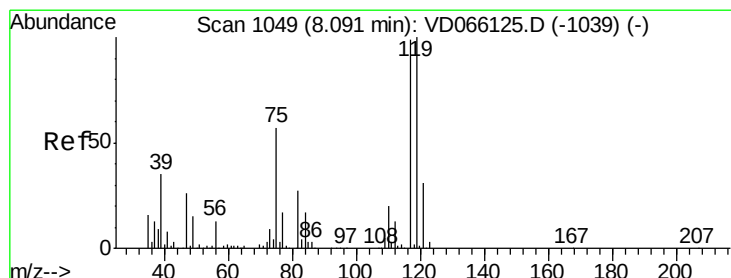
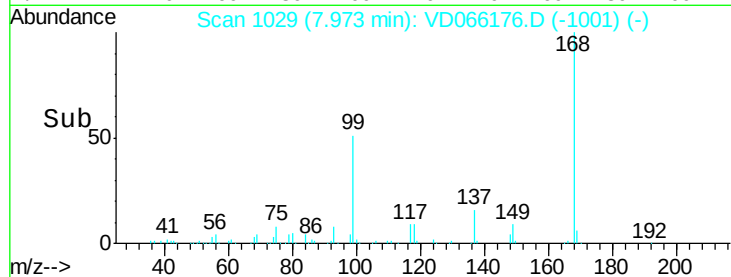
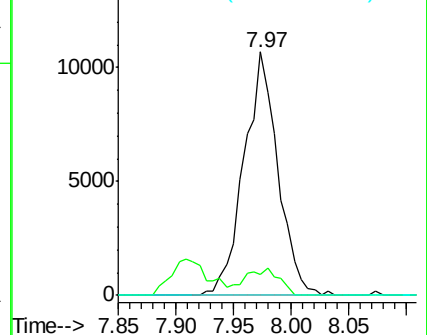
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VD066125.D (-1039) (-)

Ion 109.90 (109.60 to 110.60): VD066125.D (-1039) (-)

Ion 76.90 (76.60 to 77.60): VD066125.D (-1039) (-)



#38

Carbon Tetrachloride

Concen: 5.200 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.12 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

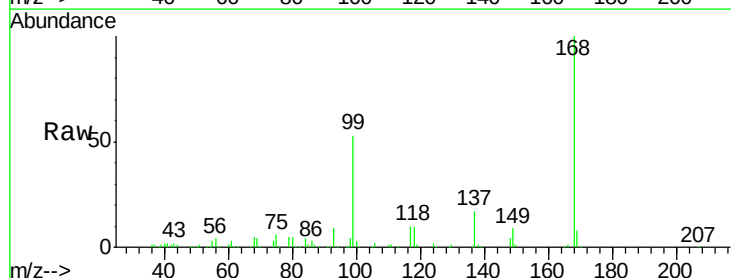
Tgt Ion: 117 Resp: 29291

Ion Ratio Lower Upper

117 100

119 6.2 81.0 121.4#

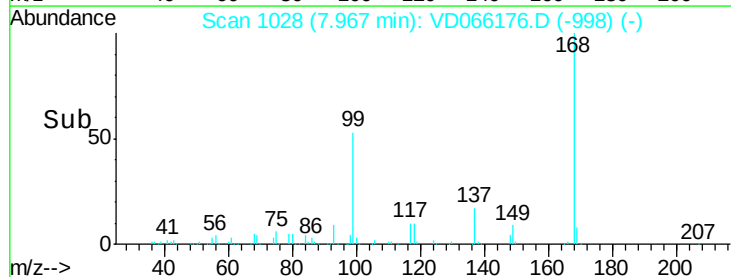
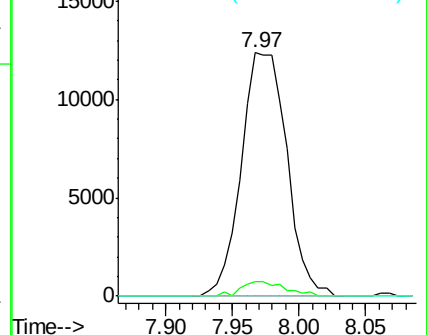
121 0.0 24.8 37.2#

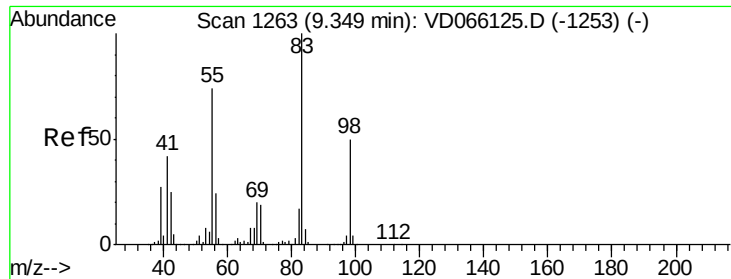


Abundance Ion 116.80 (116.50 to 117.50): VD066125.D (-1039) (-)

Ion 118.80 (118.50 to 119.50): VD066125.D (-1039) (-)

Ion 120.80 (120.50 to 121.50): VD066125.D (-1039) (-)

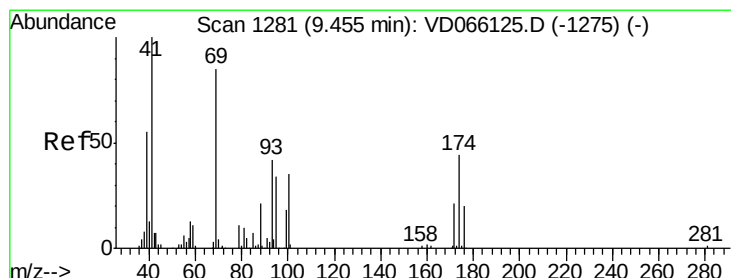
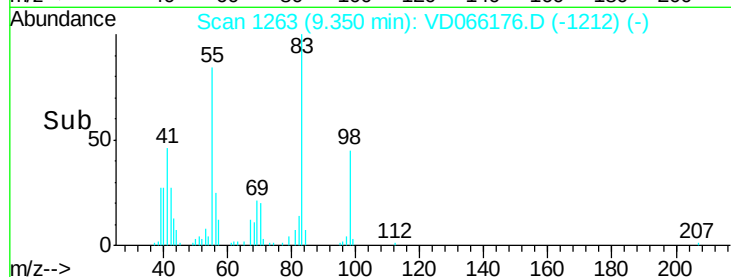
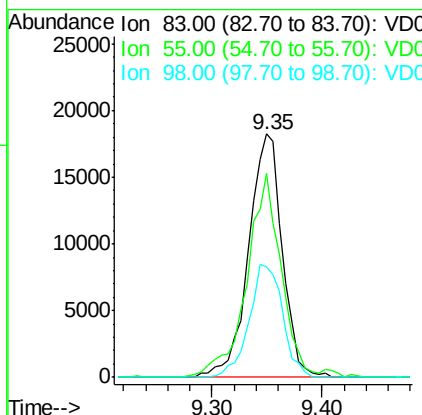
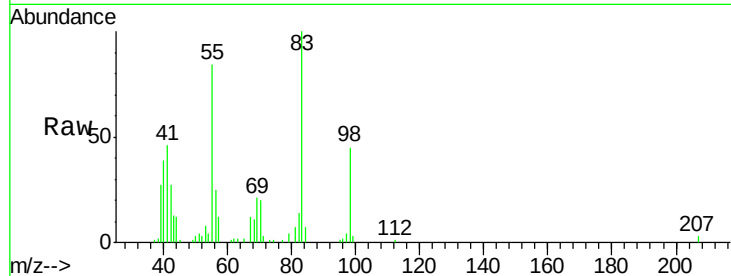




#39
Methylcyclohexane
Concen: 6.398 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

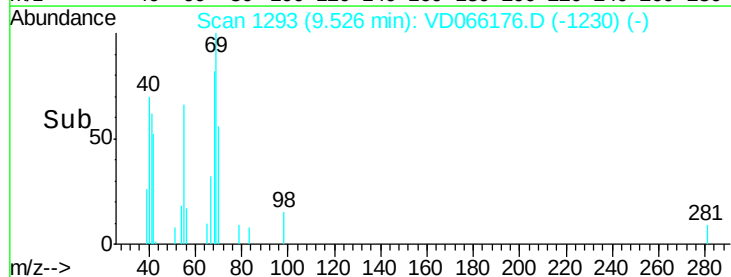
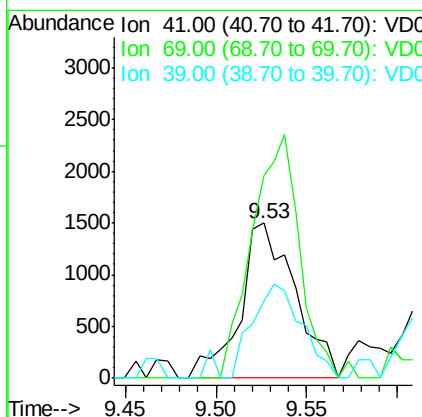
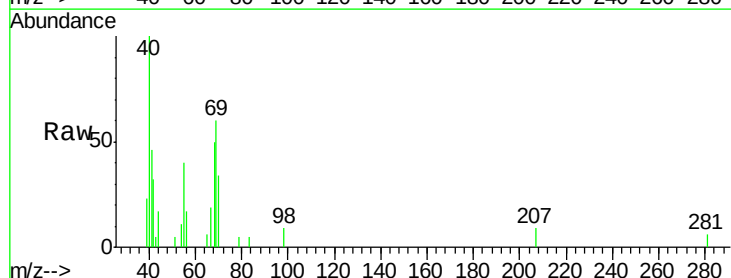
Instrument :
MSVOA_D
ClientSampleId :
CAR-WASH-AREA-3

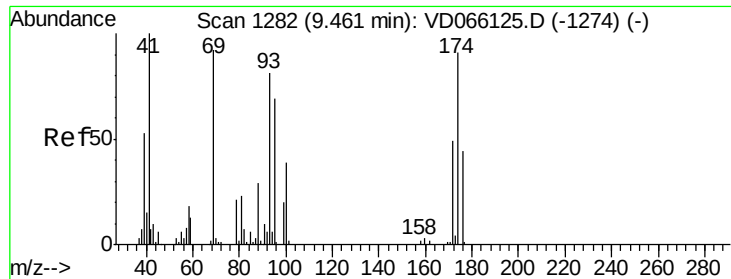
Tot Ion	83	Resp	39063
Ion	Ratio	Lower	Upper
83	100		
55	82.9	59.2	88.8
98	45.5	39.8	59.6



#48
Methyl methacrylate
Concen: 1.565 ug/l
RT: 9.53 min Scan# 1293
Delta R.T. 0.07 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Tgt Ion	41	Resp	3151
Ion	Ratio	Lower	Upper
41	100		
69	137.1	63.9	95.9#
39	55.0	42.6	64.0

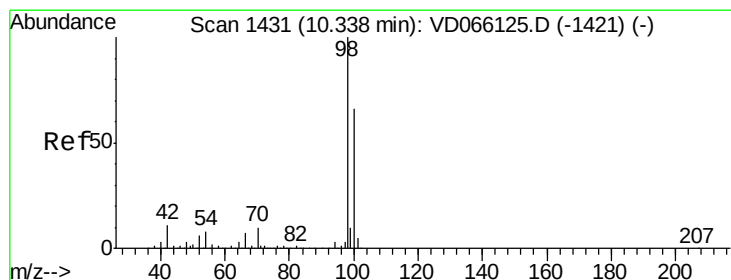
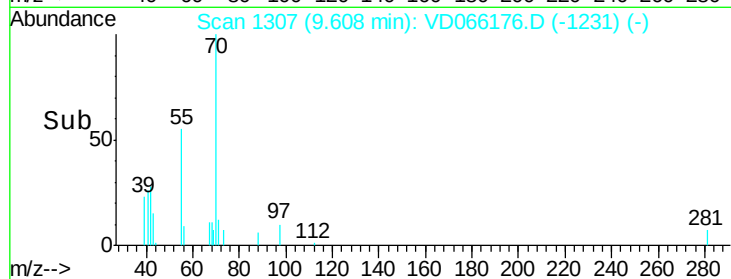
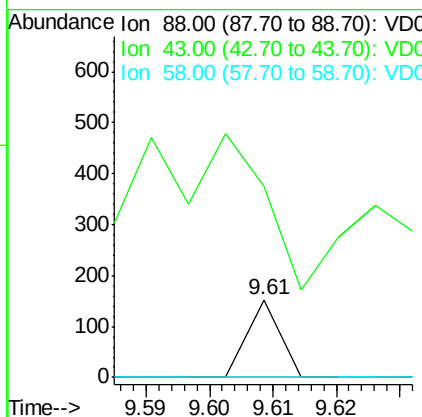
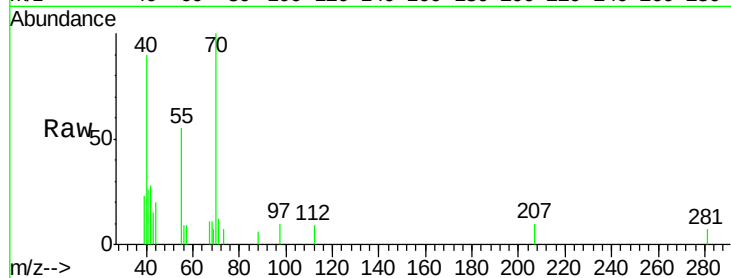




#49
1,4-Dioxane
Concen: 2.227 ug/l
RT: 9.61 min Scan# 1307
Delta R.T. 0.15 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

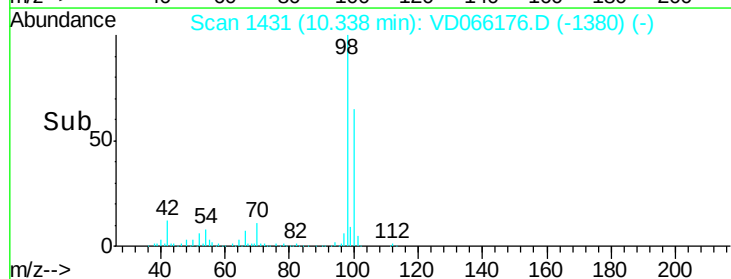
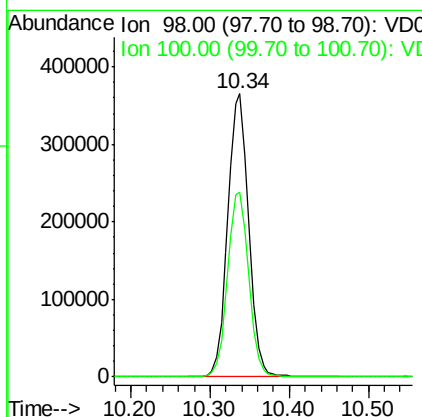
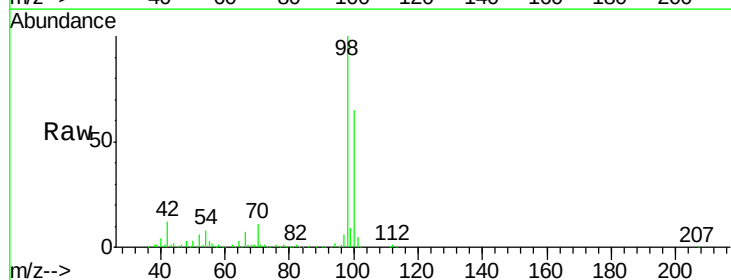
Instrument :
MSVOA_D
ClientSampleId :
CAR-WASH-AREA-3

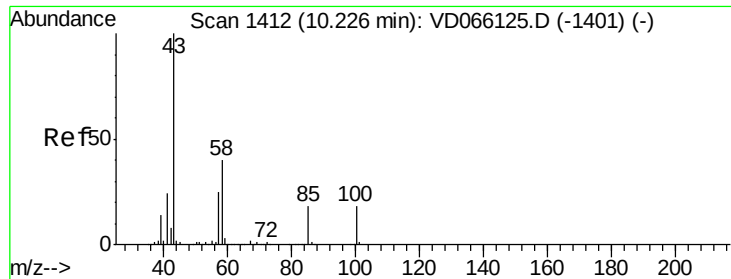
Tot Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 0.0 27.5 41.3#
58 0.0 50.2 75.4#



#50
Toluene-d8
Concen: 52.914 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Tgt Ion: 98 Resp: 664896
Ion Ratio Lower Upper
98 100
100 65.9 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 2.664 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

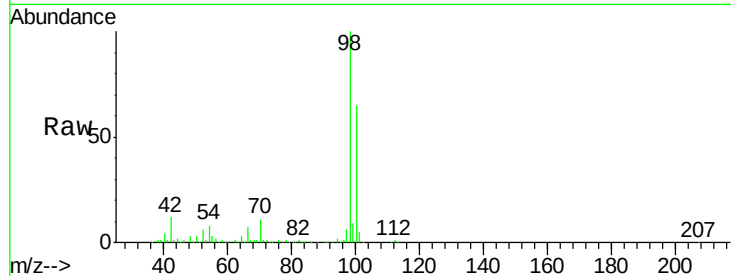
CAR-WASH-AREA-3

Tot Ion: 43 Resp: 5395

Ion Ratio Lower Upper

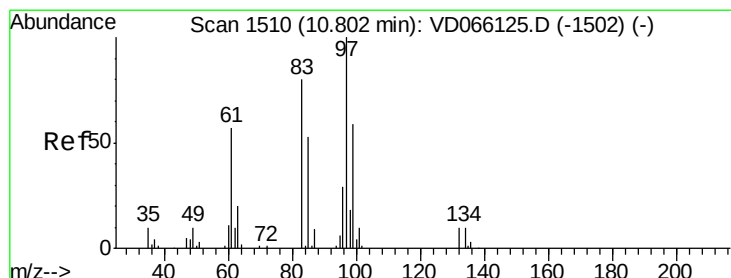
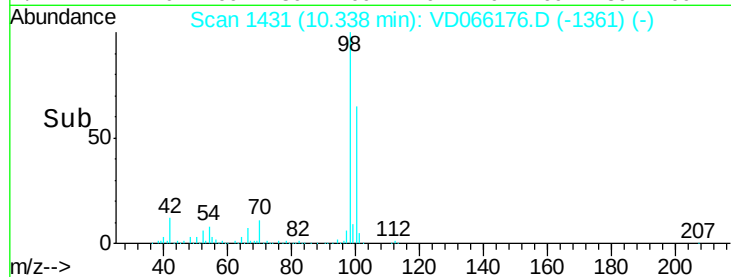
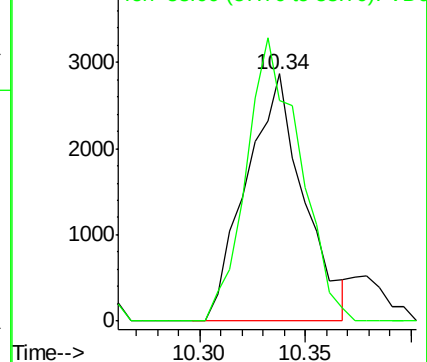
43 100

58 107.5 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#55

1,1,2-Trichloroethane

Concen: 4.885 ug/l

RT: 10.77 min Scan# 1504

Delta R.T. -0.04 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Tgt Ion: 97 Resp: 13277

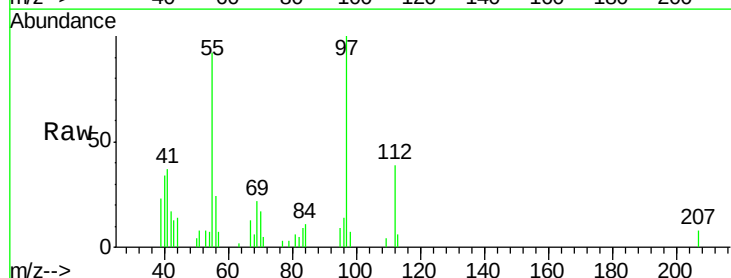
Ion Ratio Lower Upper

97 100

83 9.1 63.9 95.9#

85 0.0 42.5 63.7#

99 0.0 47.4 71.0#

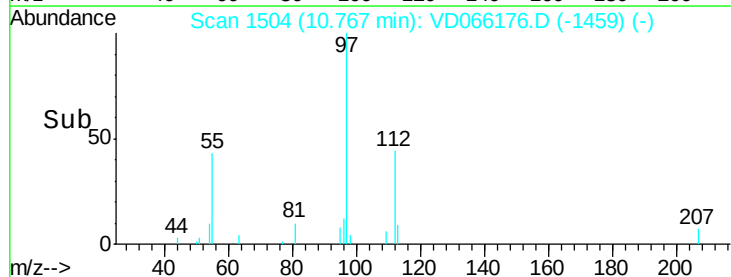
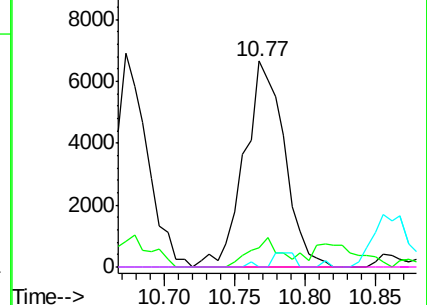


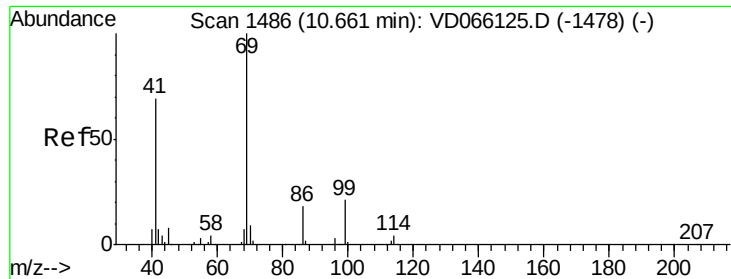
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 1.113 ug/l

RT: 10.67 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

CAR-WASH-AREA-3

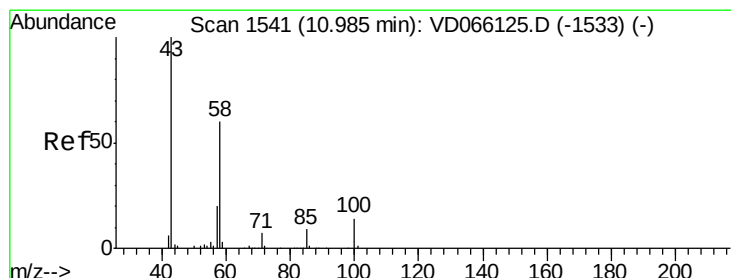
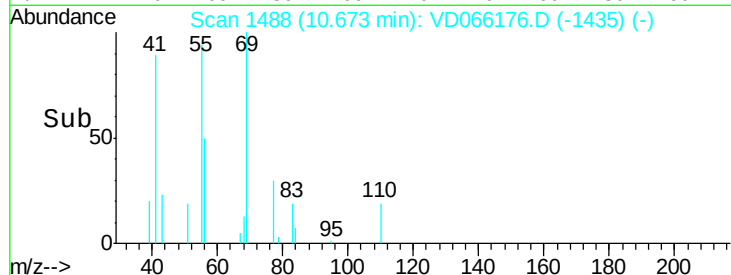
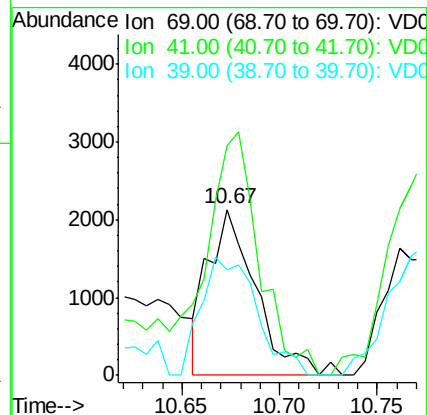
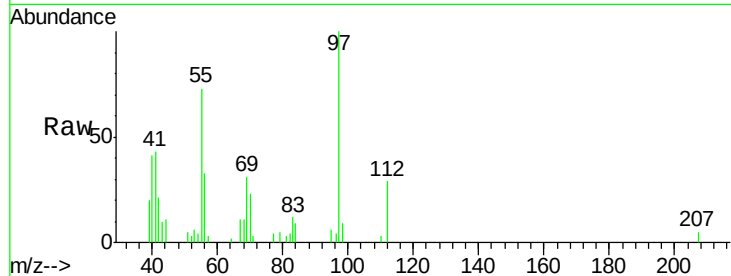
Tot Ion: 69 Resp: 3635

Ion Ratio Lower Upper

69 100

41 161.2 54.1 81.1#

39 82.9 28.6 43.0#



#59

2-Hexanone

Concen: 8.889 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD066176.D

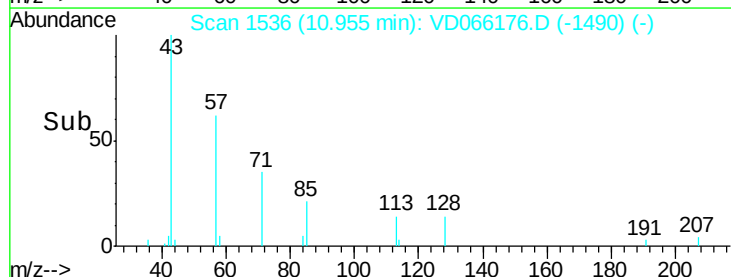
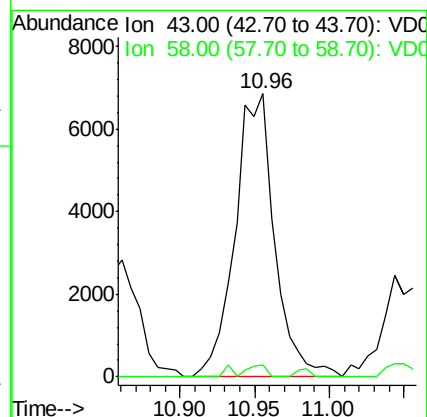
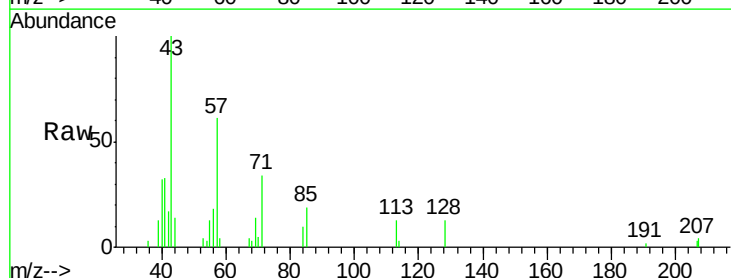
Acq: 10 Aug 2020 21:08

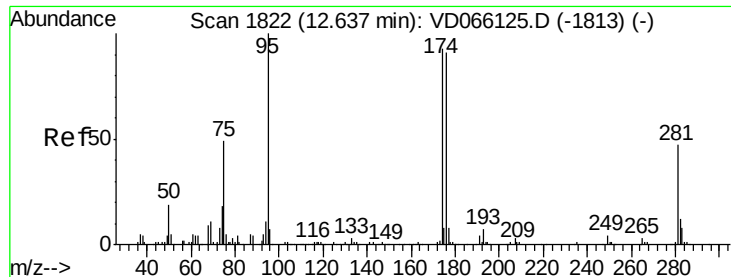
Tgt Ion: 43 Resp: 12635

Ion Ratio Lower Upper

43 100

58 2.1 27.8 83.4#





#62

4-Bromofluorobenzene

Concen: 63.672 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

CAR-WASH-AREA-3

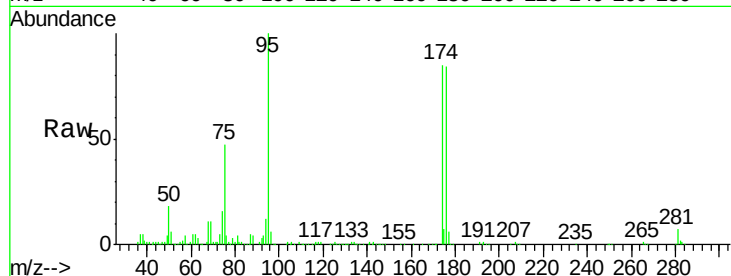
Tot Ion: 95 Resp: 288399

Ion Ratio Lower Upper

95 100

174 88.0 0.0 180.8

176 85.9 0.0 181.2

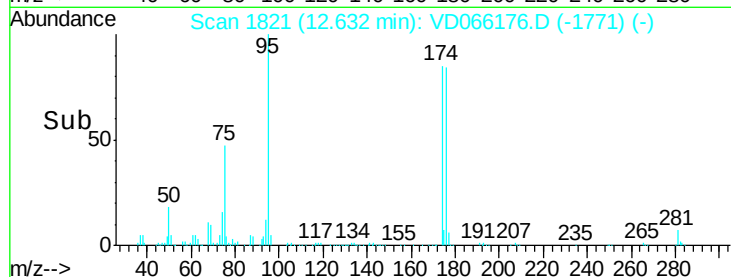


Abundance Ion 94.90 (94.60 to 95.60): VD066125.D (-1813) (-)

Ion 173.80 (173.50 to 174.50): VD066125.D (-1813) (-)

Ion 175.80 (175.50 to 176.50): VD066125.D (-1813) (-)

Time-->

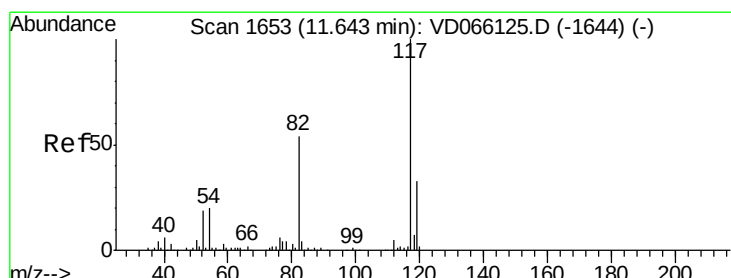


Abundance Ion 94.90 (94.60 to 95.60): VD066176.D (-1771) (-)

Ion 173.80 (173.50 to 174.50): VD066176.D (-1771) (-)

Ion 175.80 (175.50 to 176.50): VD066176.D (-1771) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

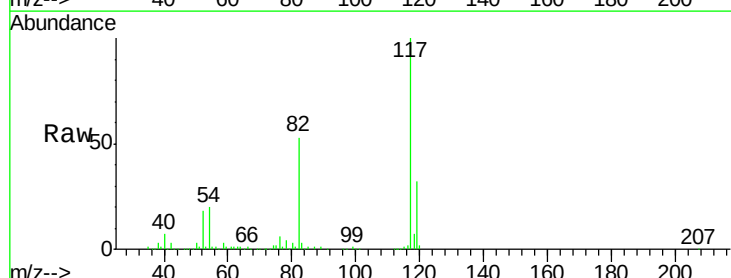
Tgt Ion: 117 Resp: 599424

Ion Ratio Lower Upper

117 100

82 52.9 43.0 64.4

119 31.8 26.1 39.1

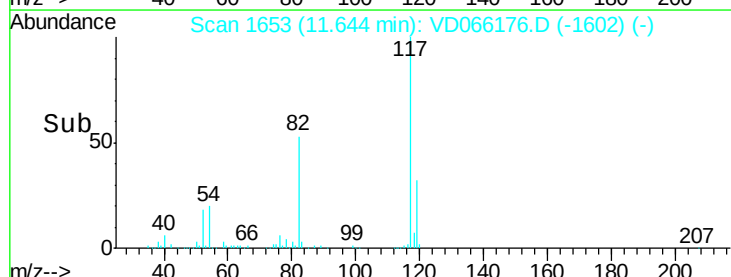


Abundance Ion 116.90 (116.60 to 117.60): VD066125.D (-1644) (-)

Ion 82.00 (81.70 to 82.70): VD066125.D (-1644) (-)

Ion 118.90 (118.60 to 119.60): VD066125.D (-1644) (-)

Time-->

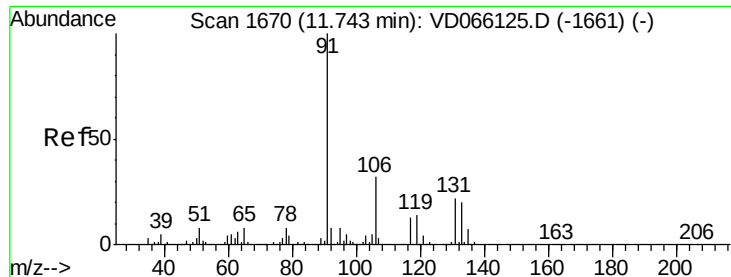


Abundance Ion 116.90 (116.60 to 117.60): VD066176.D (-1602) (-)

Ion 82.00 (81.70 to 82.70): VD066176.D (-1602) (-)

Ion 118.90 (118.60 to 119.60): VD066176.D (-1602) (-)

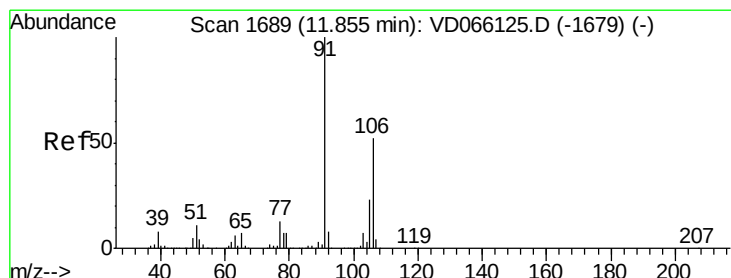
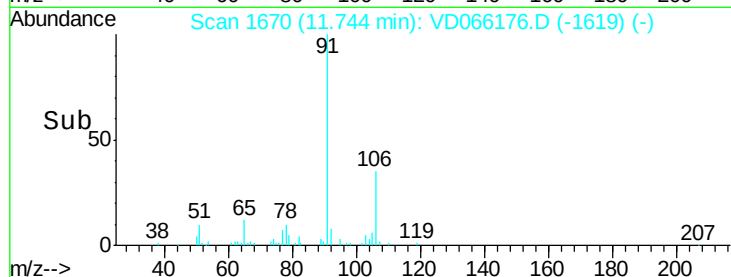
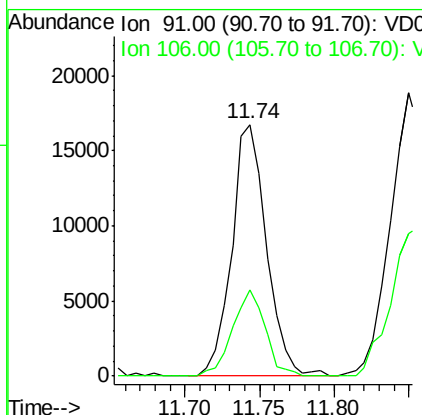
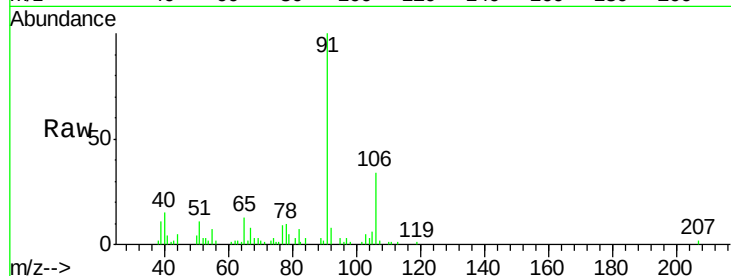
Time-->



#67
Ethyl Benzene
Concen: 1.289 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

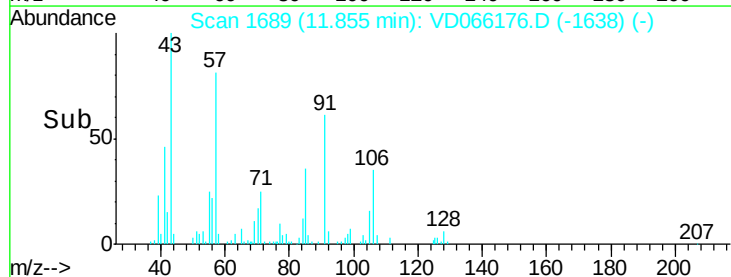
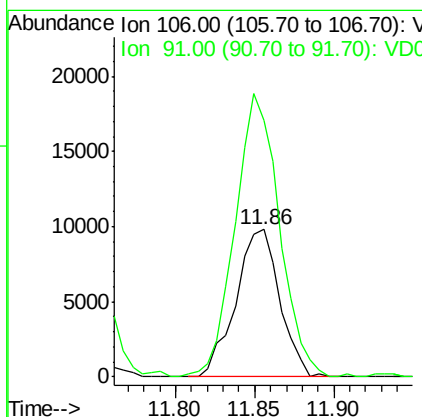
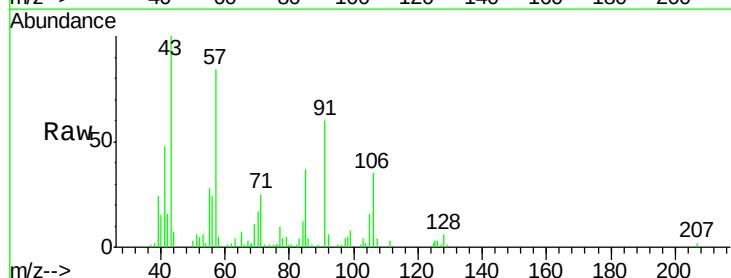
Instrument :
MSVOA_D
ClientSampleId :
CAR-WASH-AREA-3

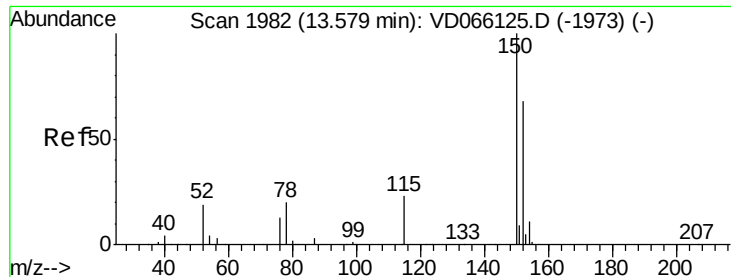
Tot Ion: 91 Resp: 27178
Ion Ratio Lower Upper
91 100
106 34.3 25.7 38.5



#68
m/p-Xylenes
Concen: 2.310 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD066176.D
Acq: 10 Aug 2020 21:08

Tgt Ion: 106 Resp: 18876
Ion Ratio Lower Upper
106 100
91 193.3 156.6 235.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Instrument :

MSVOA_D

ClientSampleId :

CAR-WASH-AREA-3

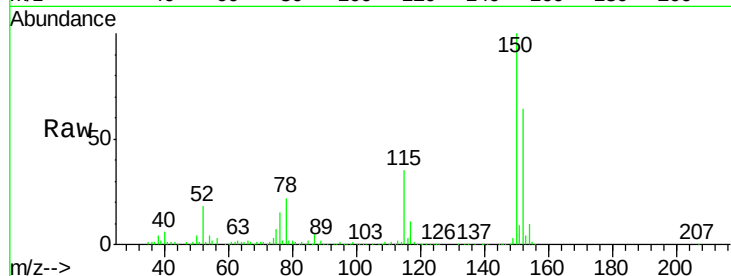
Tot Ion:152 Resp: 300102

Ion Ratio Lower Upper

152 100

115 55.7 28.0 83.9

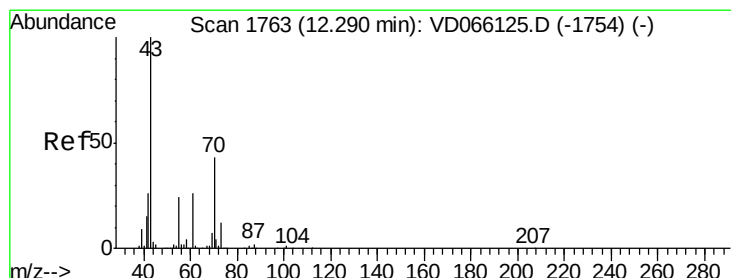
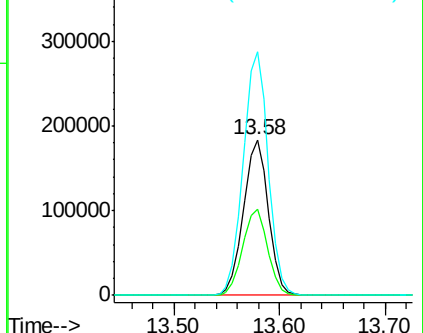
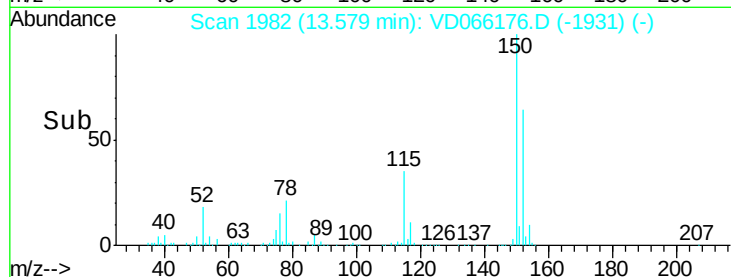
150 156.5 0.0 346.4



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



#74

N-ethyl acetate

Concen: 2.178 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD066176.D

Acq: 10 Aug 2020 21:08

Tgt Ion: 43 Resp: 9609

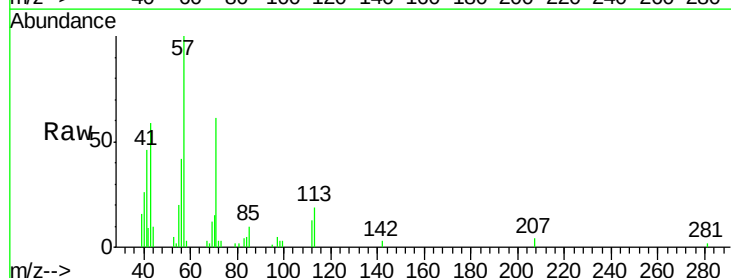
Ion Ratio Lower Upper

43 100

70 34.7 34.9 52.3#

55 0.0 19.2 28.8#

61 0.0 19.7 29.5#

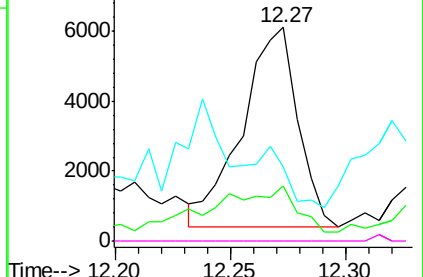
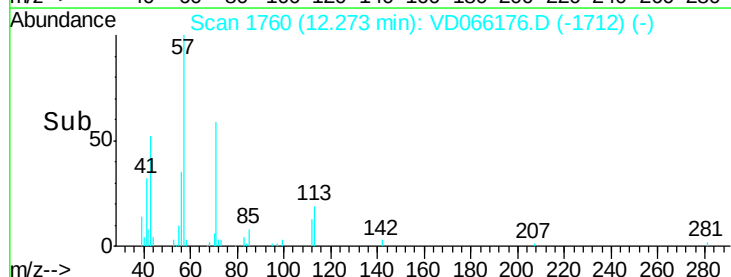


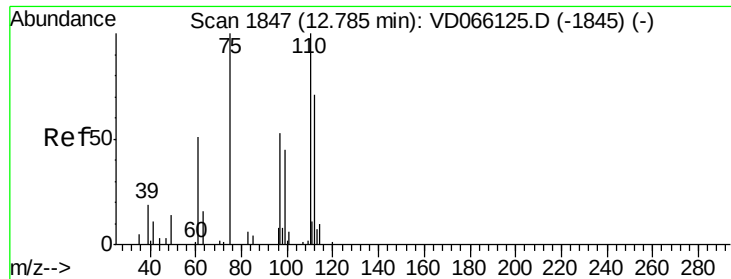
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

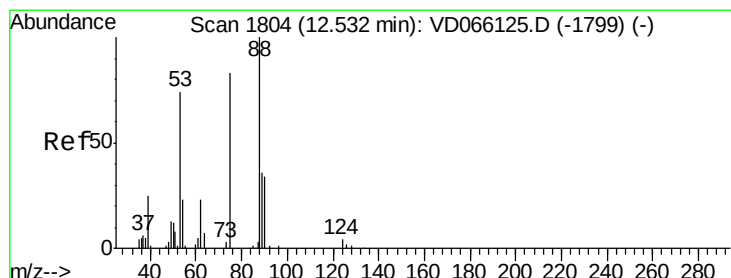
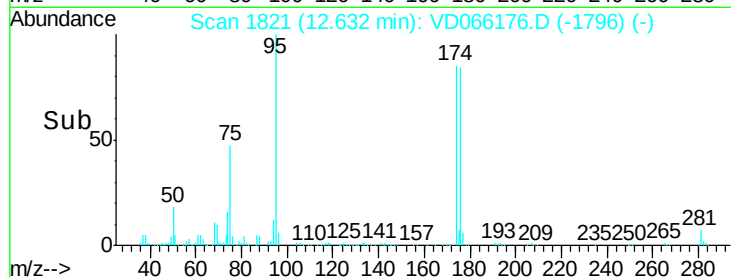
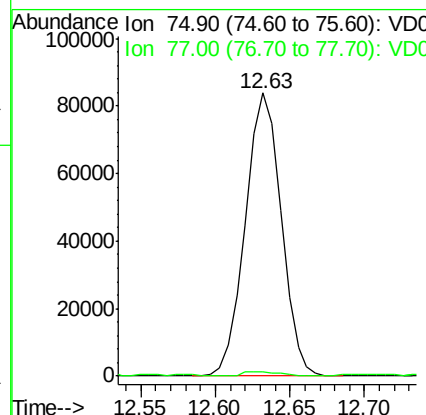
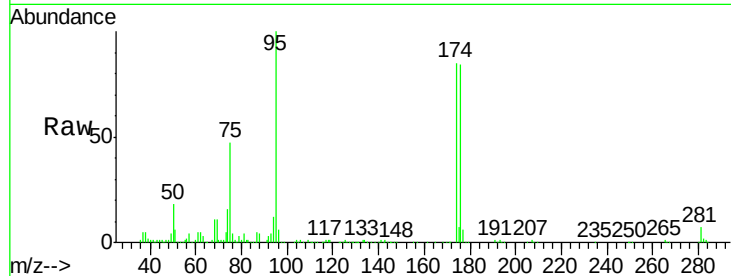




#76
 1,2,3-Trichloropropane
 Concen: 55.807 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066176.D
 Acq: 10 Aug 2020 21:08

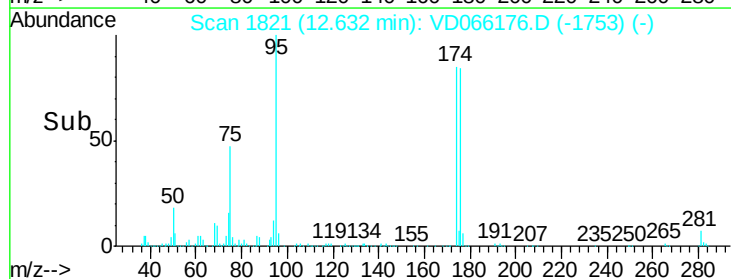
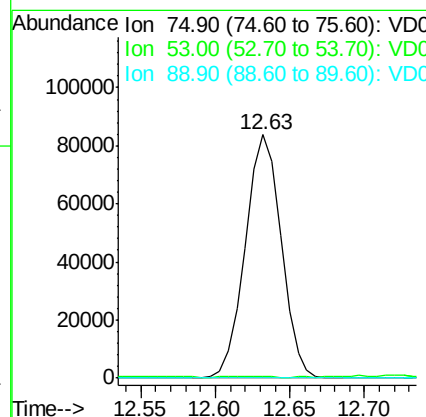
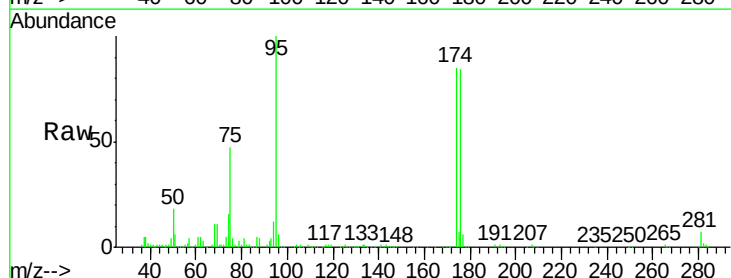
Instrument :
 MSVOA_D
 ClientSampleId :
 CAR-WASH-AREA-3

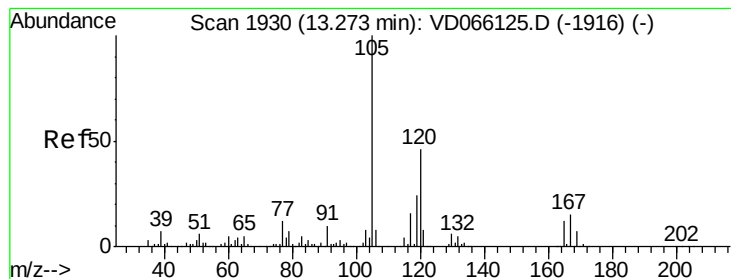
Tot Ion: 75 Resp: 139665
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 123.365 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066176.D
 Acq: 10 Aug 2020 21:08

Tgt Ion: 75 Resp: 139665
 Ion Ratio Lower Upper
 75 100
 53 0.6 73.4 110.2#
 89 0.0 36.6 55.0#





#84
 1,2,4-Trimethylbenzene
 Concen: 2.589 ug/l
 RT: 13.27 min Scan# 1929
 Delta R.T. -0.01 min
 Lab File: VD066176.D
 Acq: 10 Aug 2020 21:08

Instrument :
 MSVOA_D
 ClientSampleId :
 CAR-WASH-AREA-3

Tot Ion:105 Resp: 43411
 Ion Ratio Lower Upper
 105 100
 120 49.2 23.1 69.2

