

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120919\
 Data File : VD064470.D
 Acq On : 09 Dec 2019 12:27
 Operator : VA/SY
 Sample : VD1209SBL01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 02:43:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	742682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	1074695	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	1006795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	506812	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	309914	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
35) Dibromofluoromethane	7.91	113	320541	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	10.34	98	1269561	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	12.64	95	435652	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	

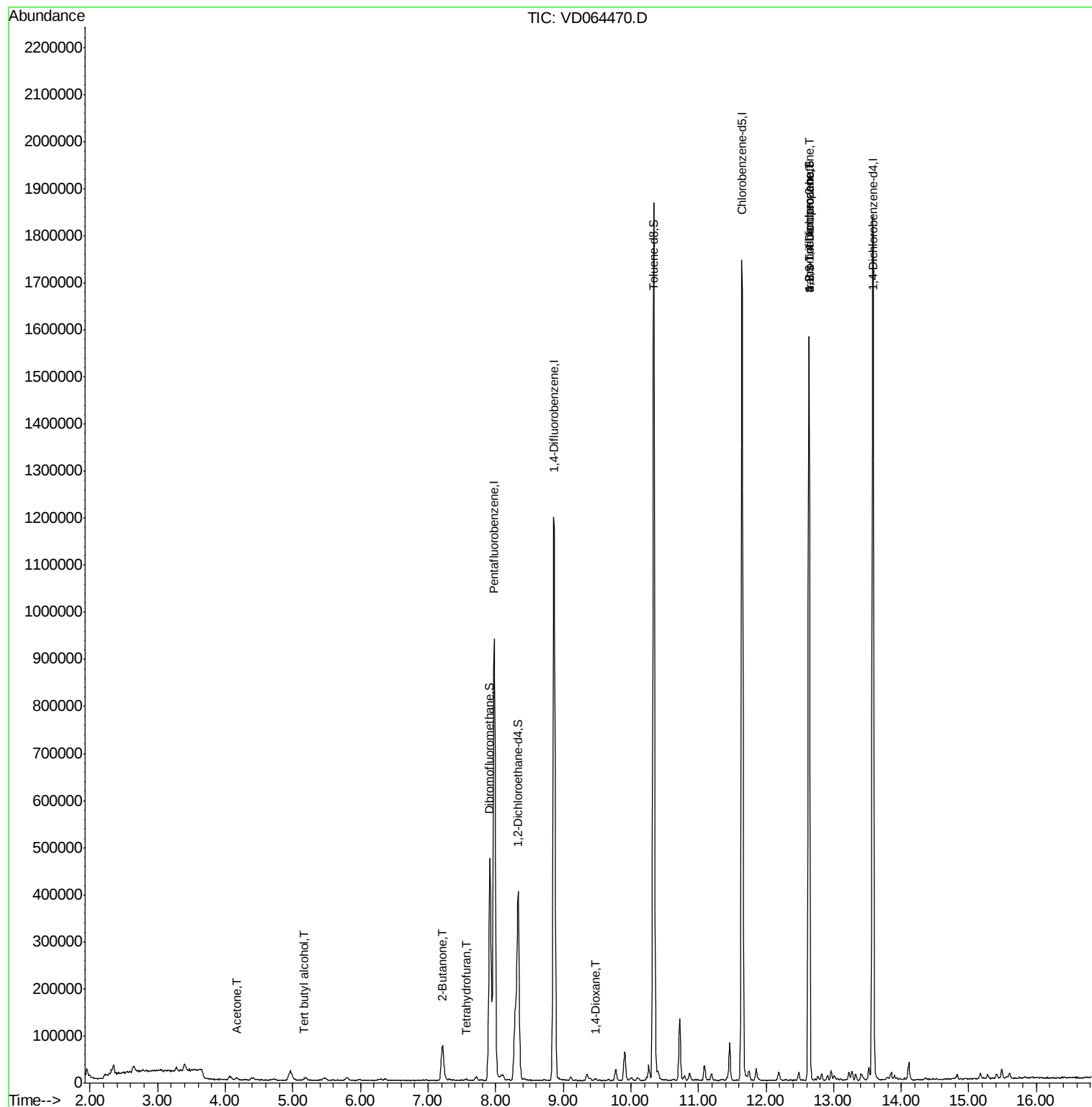
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	2746	6.417	ug/l #	100
16) Acetone	4.16	43	7867	5.791	ug/l	96
20) Methylene Chloride	4.97	84	14206	Below Cal		93
25) 2-Butanone	7.22	43	6417	3.340	ug/l #	77
29) Tetrahydrofuran	7.58	42	1854	1.517	ug/l #	51
31) Cyclohexane	7.98	56	19855	Below Cal	#	25
49) 1,4-Dioxane	9.47	88	73	1.551	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	229329	55.023	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	229329	119.979	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	434	Below Cal	#	8

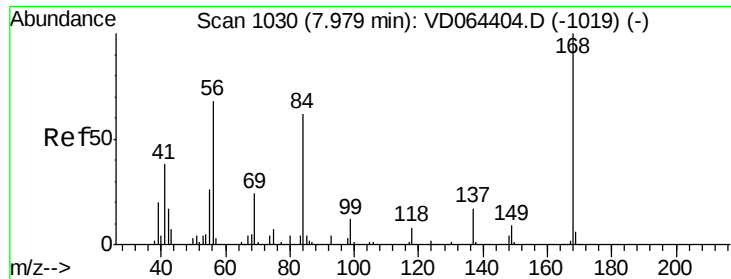
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

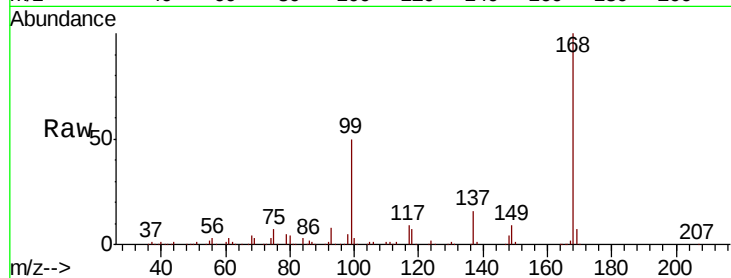
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 742682

Ion Ratio Lower Upper

168 100

99 49.6 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

300000

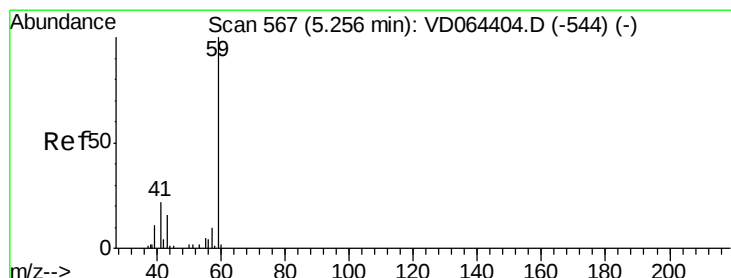
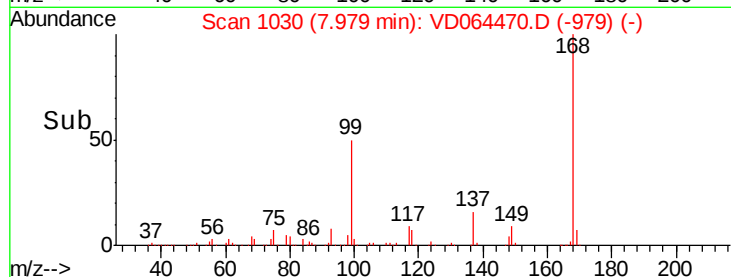
200000

100000

0

Time-->

7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 6.417 ug/l

RT: 5.17 min Scan# 553

Delta R.T. -0.08 min

Lab File: VD064470.D

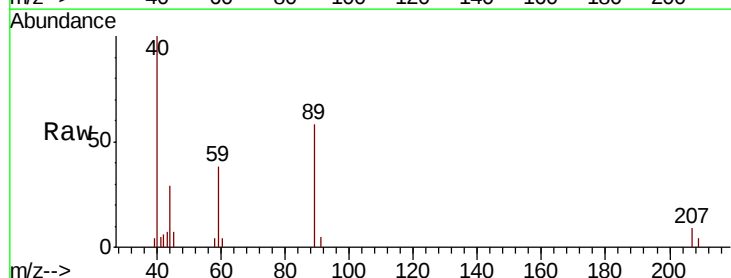
Acq: 09 Dec 2019 12:27

Tgt Ion: 59 Resp: 2746

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.17

1500

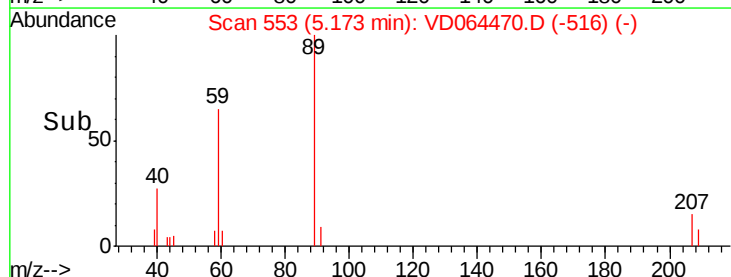
1000

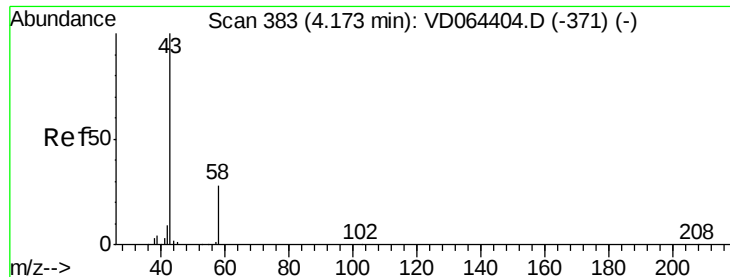
500

0

Time-->

5.10 5.15 5.20





#16

Acetone

Concen: 5.791 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

Instrument :

MSVOA_D

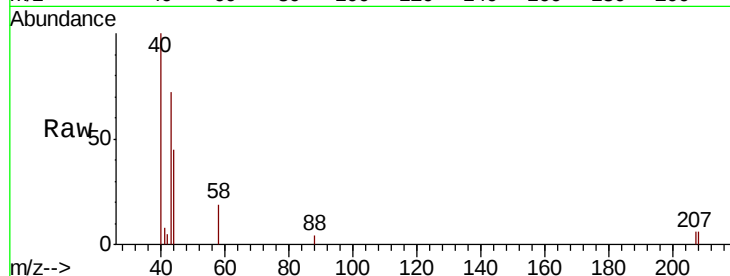
ClientSampleId :

Tot Ion: 43 Resp: 7867

Ion Ratio Lower Upper

43 100

58 26.0 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

3000

2500

2000

1500

1000

500

0

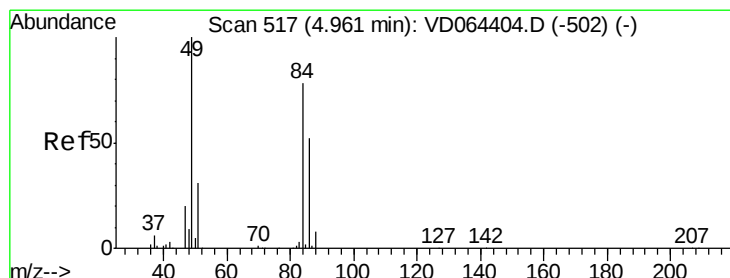
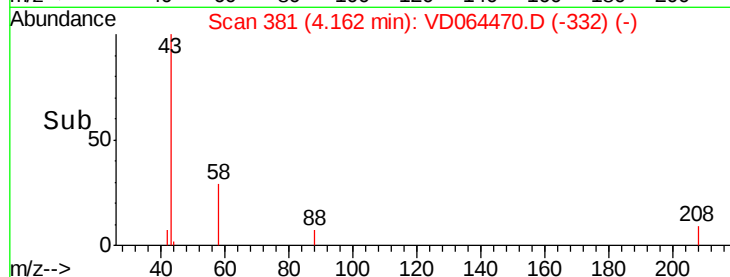
4.16

4.15

4.20

4.25

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

Tgt Ion: 84 Resp: 14206

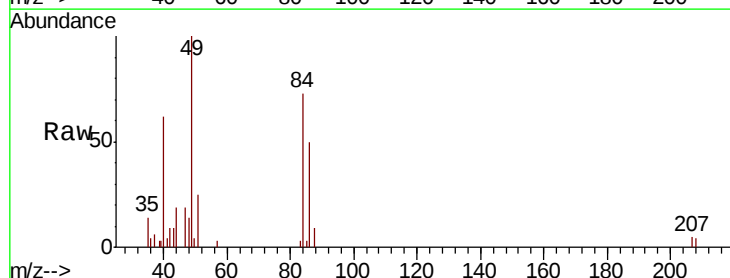
Ion Ratio Lower Upper

84 100

49 137.9 102.6 153.8

51 34.1 32.0 48.0

86 69.2 53.4 80.0



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

8000

6000

4000

2000

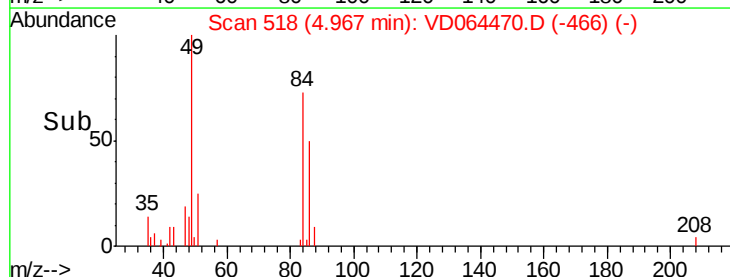
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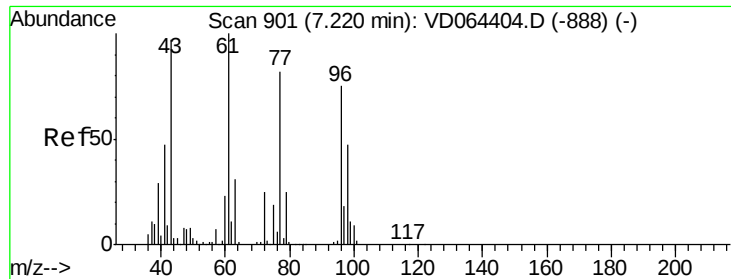
4.97

4.90

5.00

Time-->





#25

2-Butanone

Concen: 3.340 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

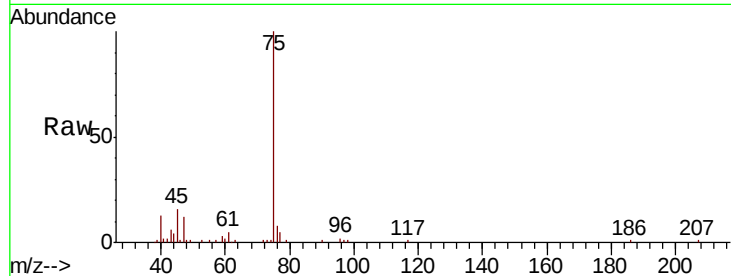
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 6417

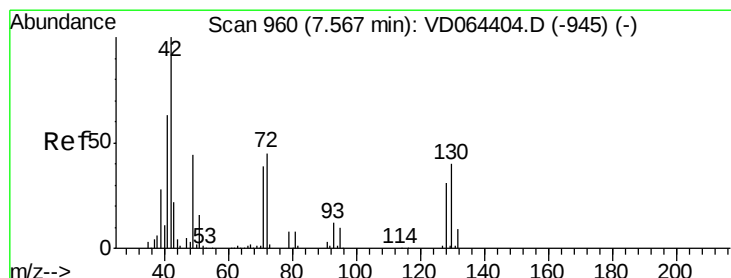
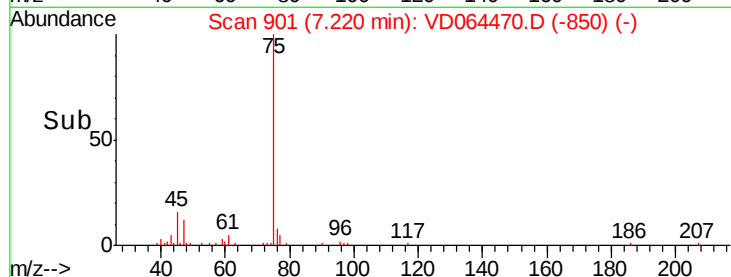
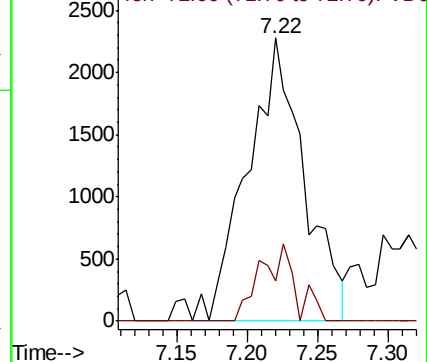
Ion Ratio Lower Upper

43 100

72 14.4 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.517 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

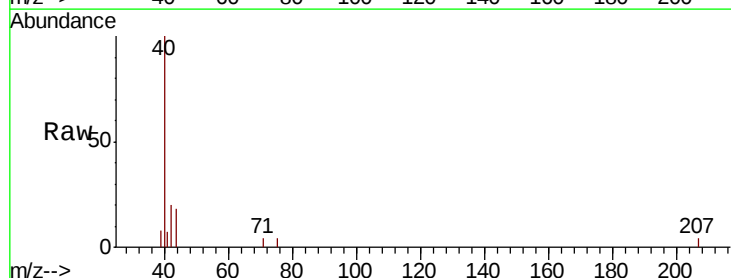
Tgt Ion: 42 Resp: 1854

Ion Ratio Lower Upper

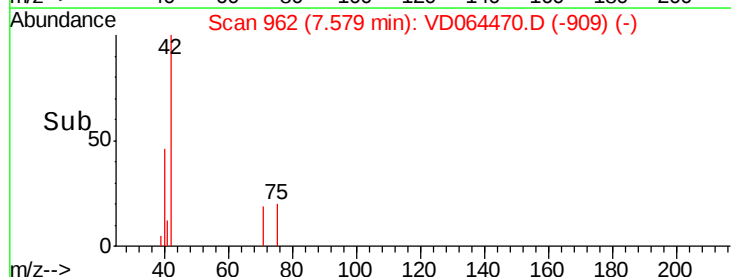
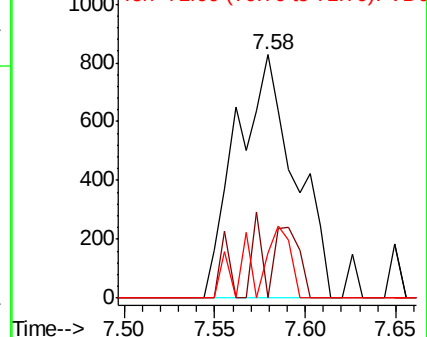
42 100

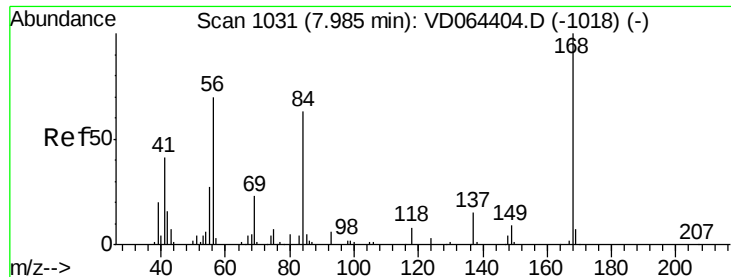
72 12.2 35.8 53.8#

71 11.4 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

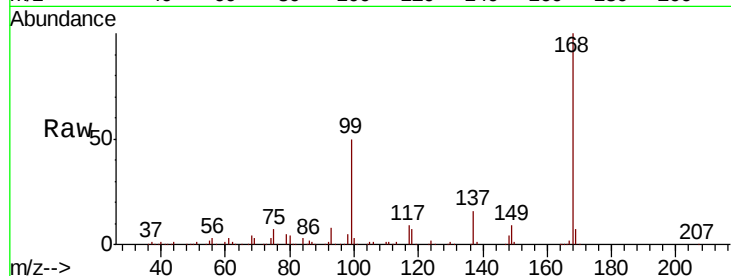




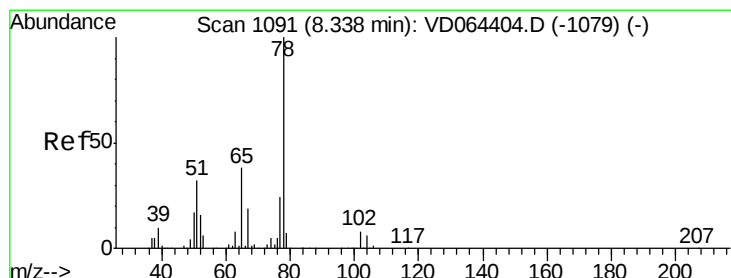
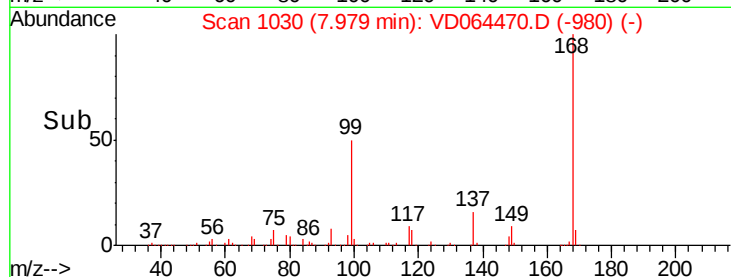
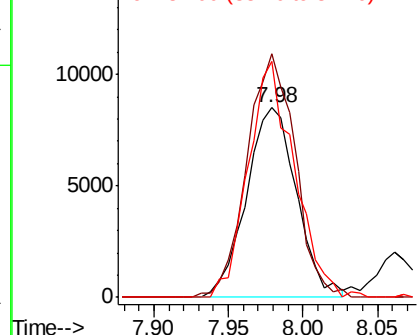
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD064470.D
Acq: 09 Dec 2019 12:27

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 19855
Ion Ratio Lower Upper
56 100
69 128.7 26.2 39.4#
84 124.9 70.3 105.5#

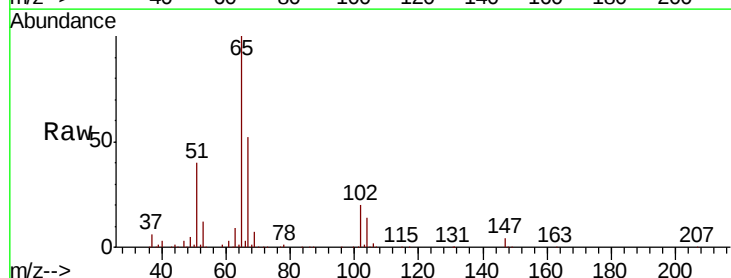


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

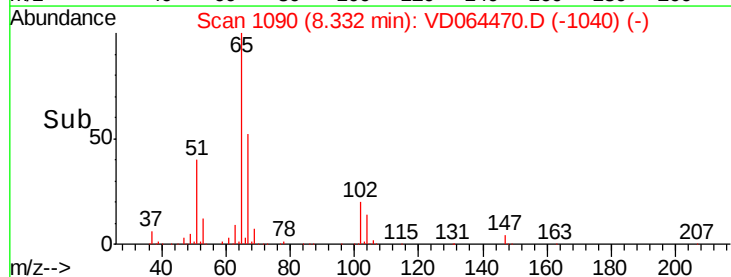
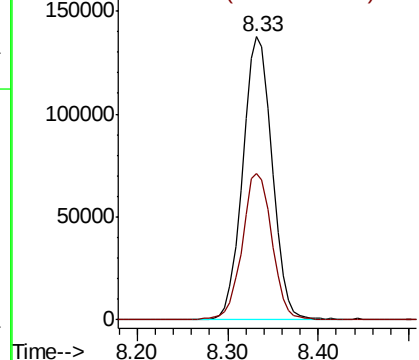


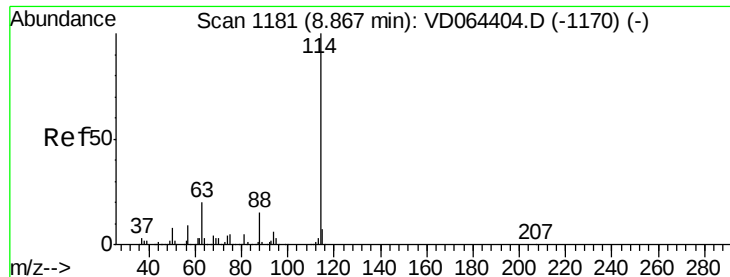
#33
1,2-Dichloroethane-d4
Concen: 46.102 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064470.D
Acq: 09 Dec 2019 12:27

Tgt Ion: 65 Resp: 309914
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.0



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

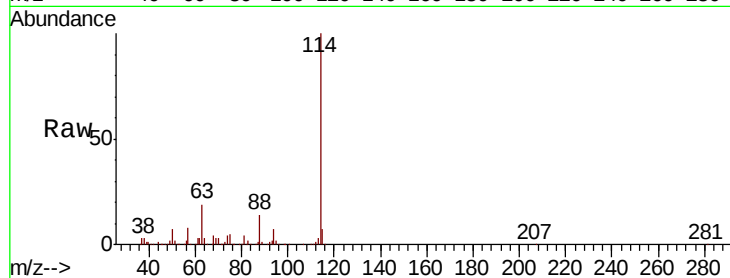




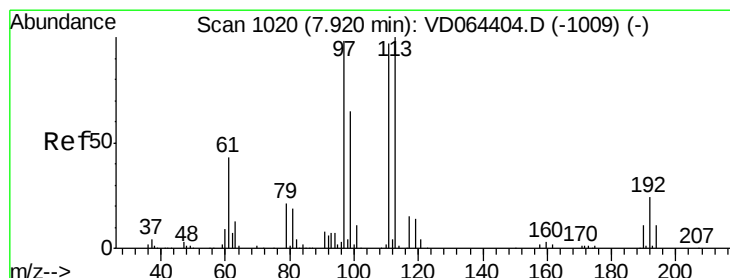
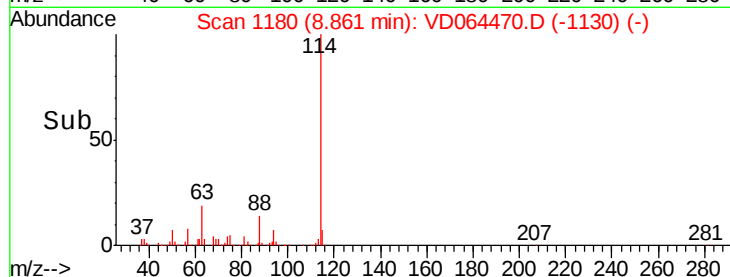
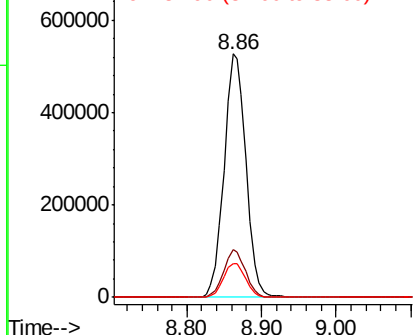
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064470.D
 Acq: 09 Dec 2019 12:27

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 1074695
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 13.7 0.0 29.2

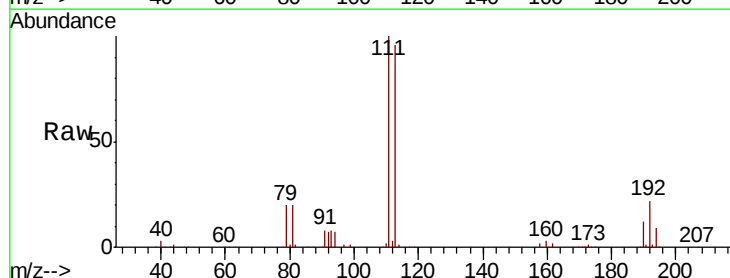


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

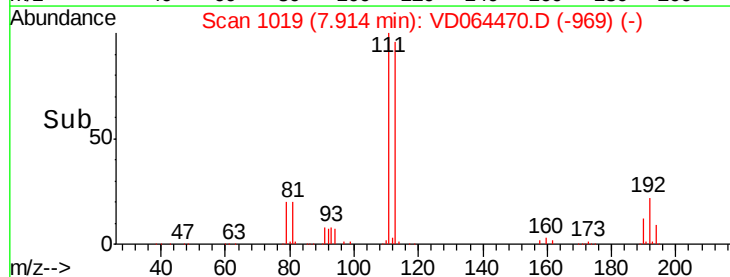
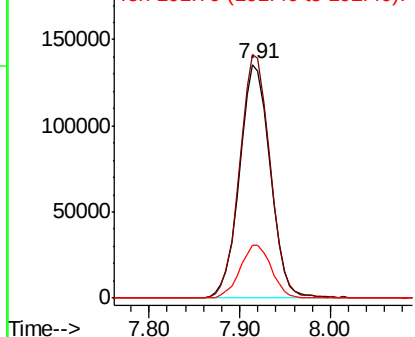


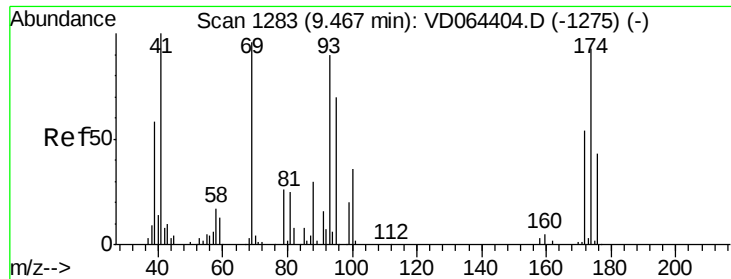
#35
 Dibromofluoromethane
 Concen: 47.339 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD064470.D
 Acq: 09 Dec 2019 12:27

Tgt Ion:113 Resp: 320541
 Ion Ratio Lower Upper
 113 100
 111 103.3 79.4 119.2
 192 23.1 18.6 28.0



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

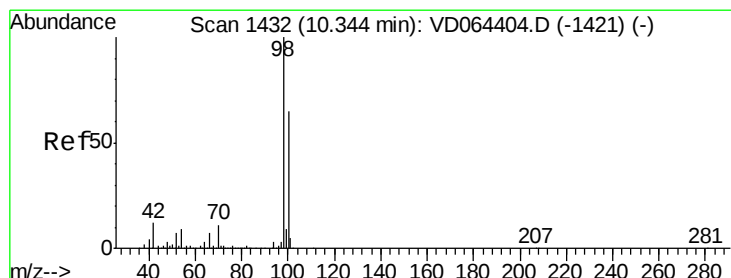
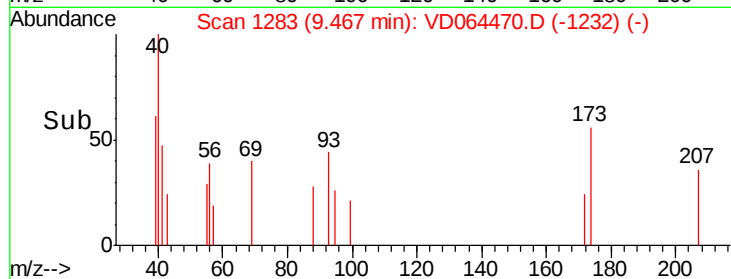
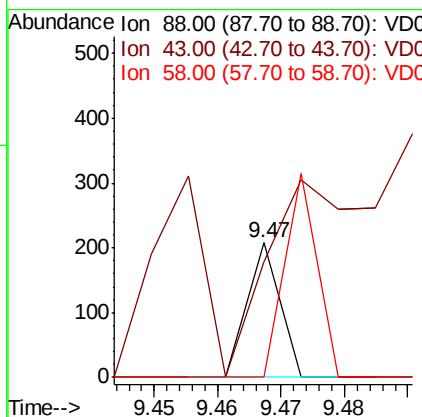
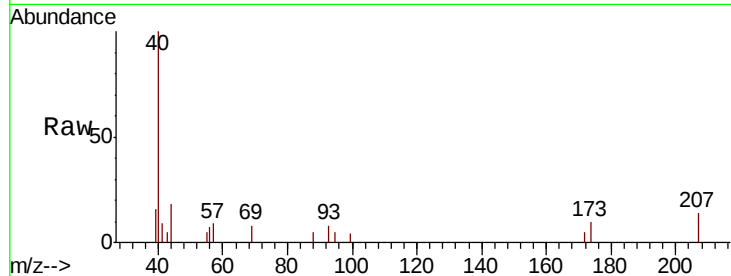




#49
1,4-Dioxane
Concen: 1.551 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD064470.D
Acq: 09 Dec 2019 12:27

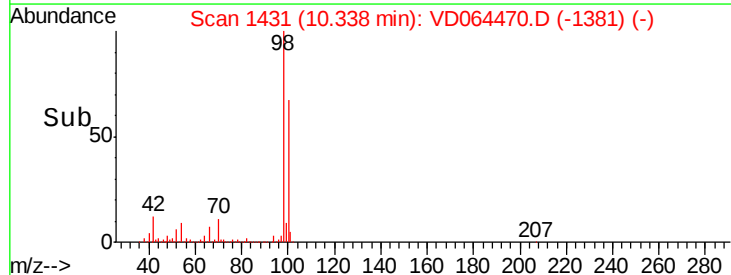
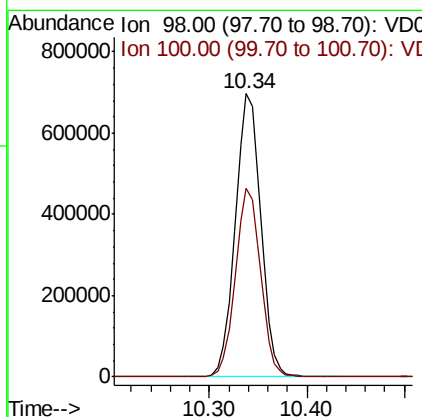
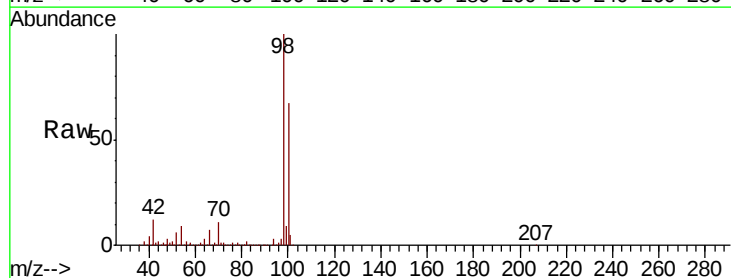
Instrument :
MSVOA_D
ClientSampled :

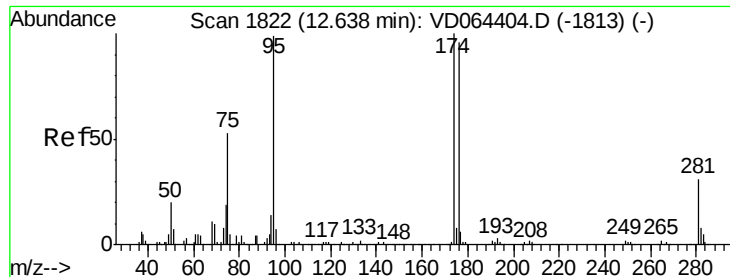
Tot Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 242.5 26.7 40.1#
58 152.1 52.3 78.5#



#50
Toluene-d8
Concen: 49.775 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064470.D
Acq: 09 Dec 2019 12:27

Tgt Ion: 98 Resp: 1269561
Ion Ratio Lower Upper
98 100
100 65.8 52.6 79.0

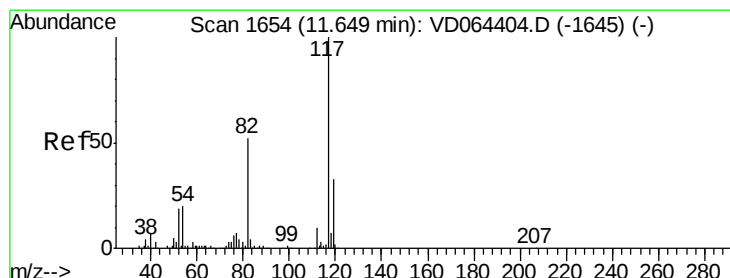
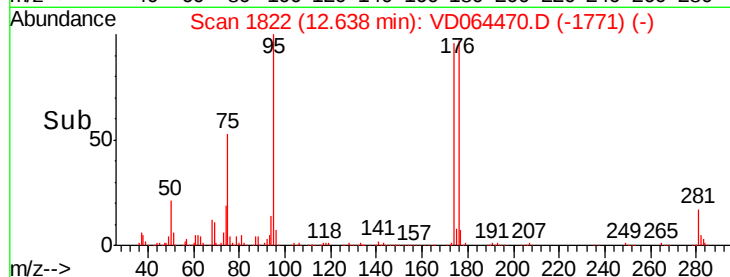
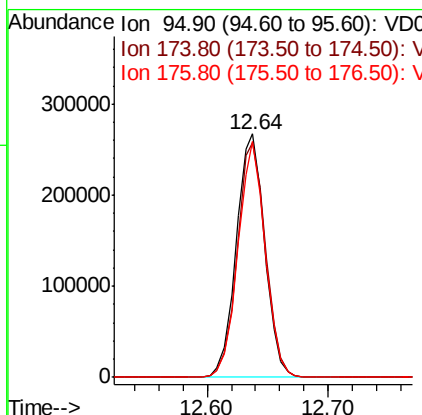
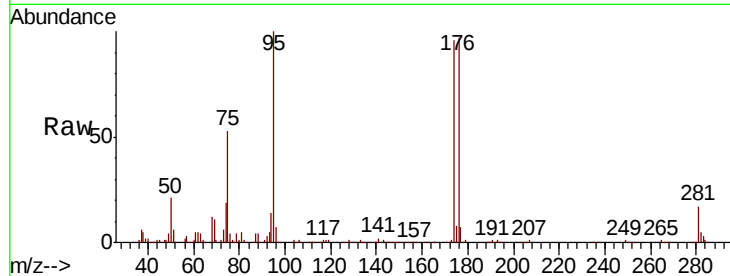




#62
4-Bromofluorobenzene
Concen: 53.148 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064470.D
Acq: 09 Dec 2019 12:27

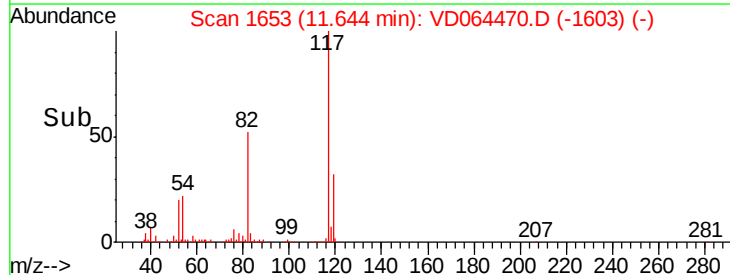
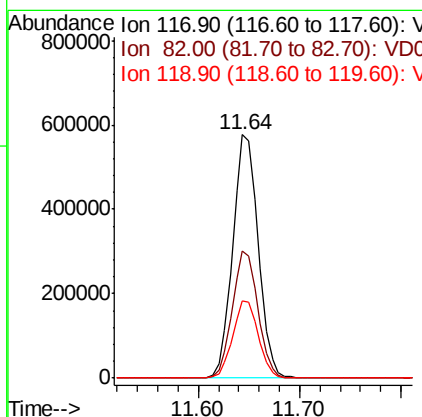
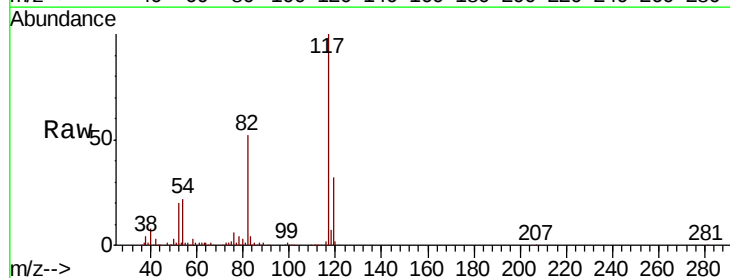
Instrument :
MSVOA_D
ClientSampleId :

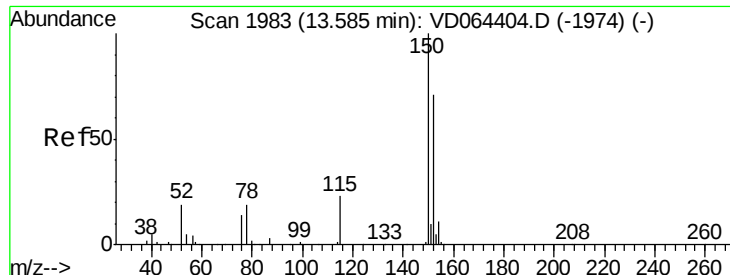
Tot Ion: 95 Resp: 435652
Ion Ratio Lower Upper
95 100
174 96.8 0.0 197.2
176 93.0 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064470.D
Acq: 09 Dec 2019 12:27

Tgt Ion: 117 Resp: 1006795
Ion Ratio Lower Upper
117 100
82 52.4 41.4 62.2
119 31.8 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

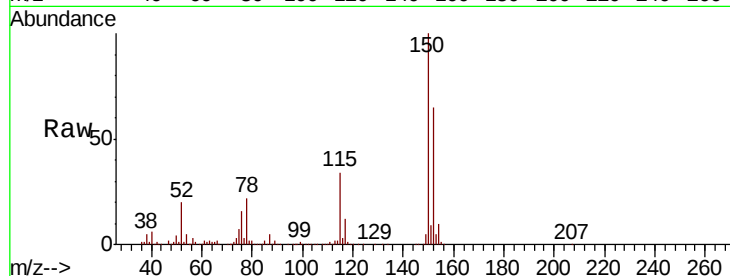
Tot Ion:152 Resp: 506812

Ion Ratio Lower Upper

152 100

115 53.2 26.7 80.1

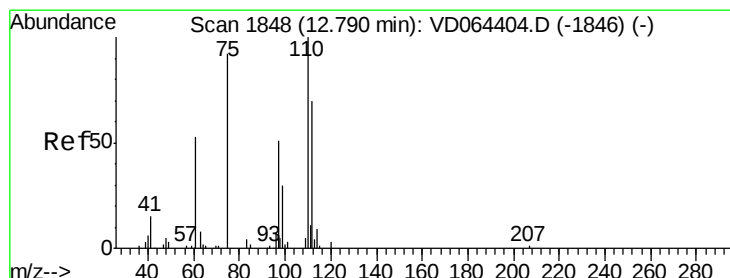
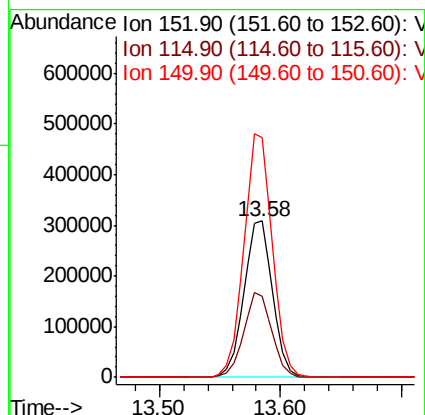
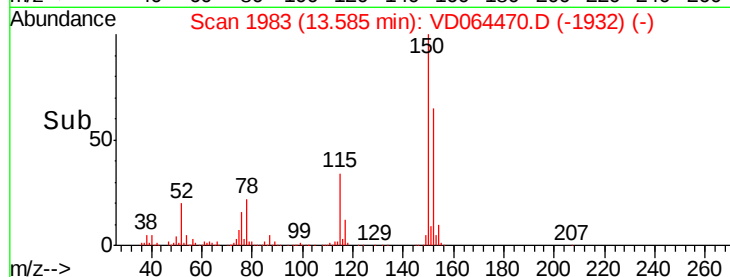
150 154.8 0.0 347.2



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: 55.023 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064470.D

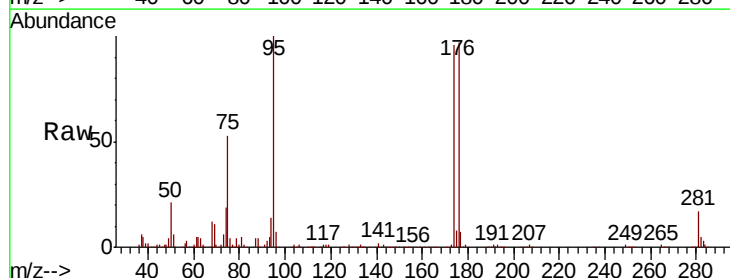
Acq: 09 Dec 2019 12:27

Tgt Ion: 75 Resp: 229329

Ion Ratio Lower Upper

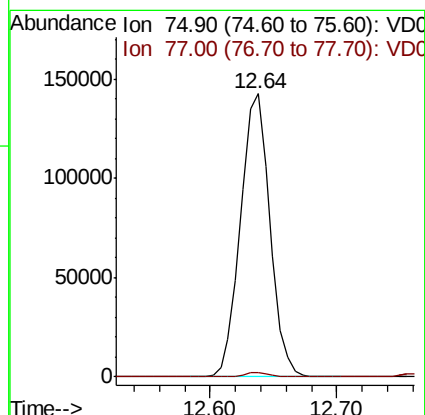
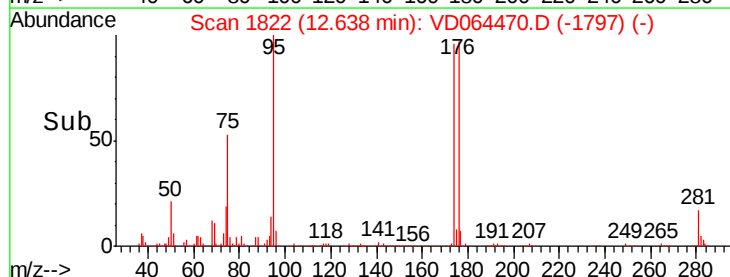
75 100

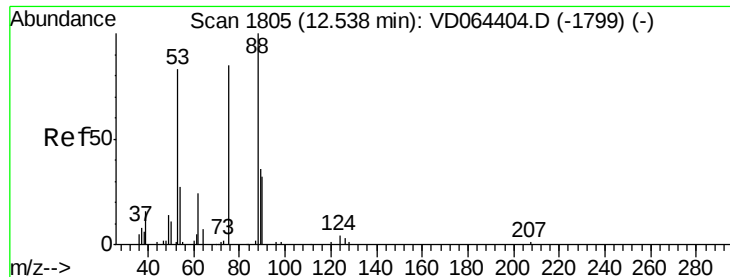
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.979 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

Instrument :

MSVOA_D

ClientSampleId :

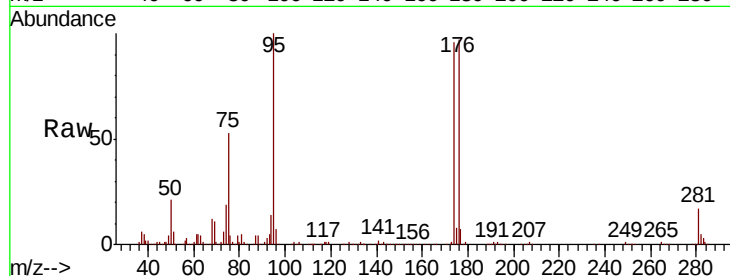
Tot Ion: 75 Resp: 229329

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

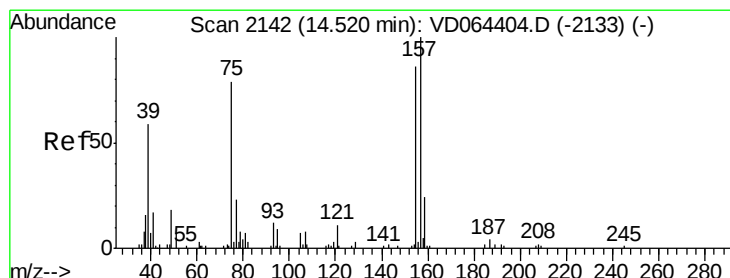
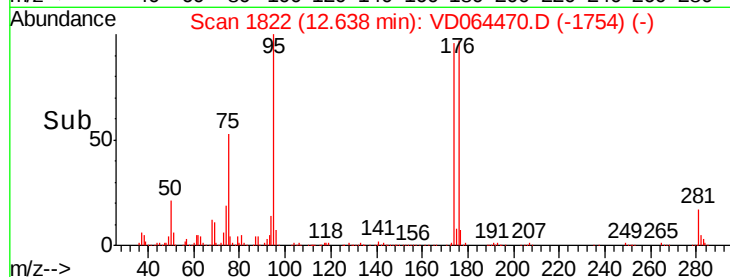
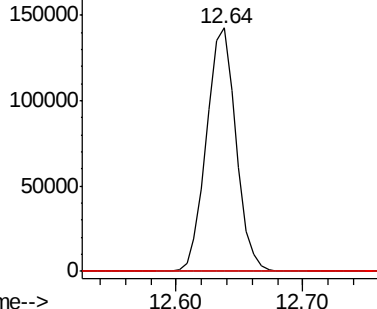
89 0.1 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.51 min Scan# 2141

Delta R.T. -0.01 min

Lab File: VD064470.D

Acq: 09 Dec 2019 12:27

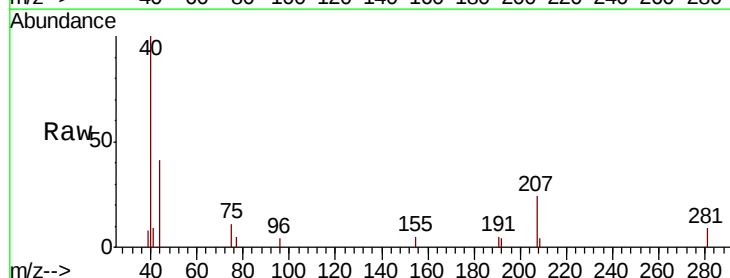
Tgt Ion: 75 Resp: 434

Ion Ratio Lower Upper

75 100

155 33.6 51.9 155.7#

157 0.0 63.2 189.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

