

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062838.D
 Acq On : 24 Jun 2019 14:15
 Operator : VA/AP
 Sample : K3490-02RE
 Misc : 5.66g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-049RE

Quant Time: Jun 25 05:03:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	71486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	107575	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	80048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	32568	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	79308	102.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	204.12%	
35) Dibromofluoromethane	6.93	113	57968	63.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	127.82%	
50) Toluene-d8	10.42	98	98461	49.87	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.74%	
62) 4-Bromofluorobenzene	13.56	95	35114	39.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	78.24%	

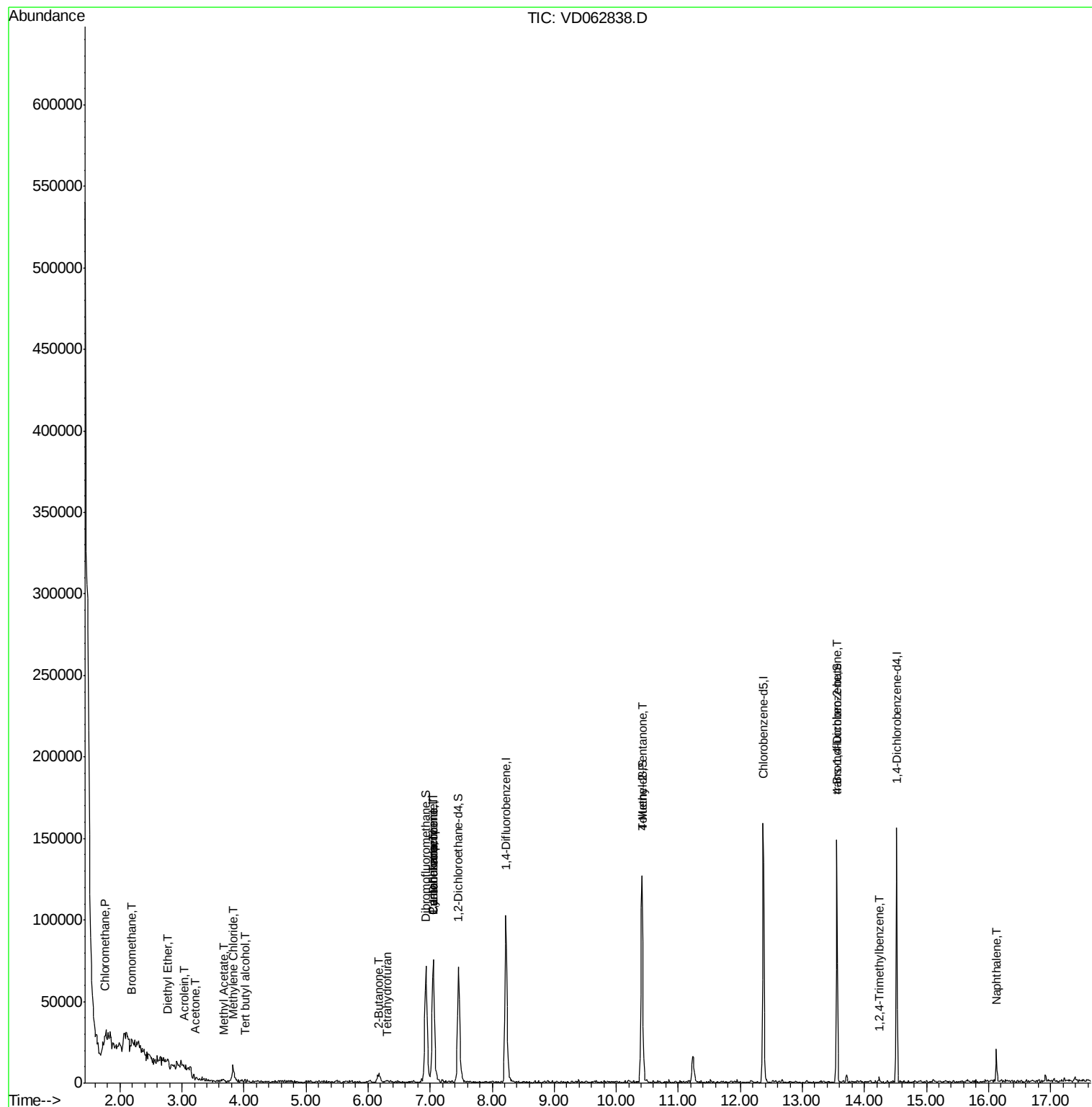
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	1023	1.470	ug/l #	45
5) Bromomethane	2.19	94	1028	3.182	ug/l #	45
8) Diethyl Ether	2.76	74	237	1.336	ug/l #	1
11) Tert butyl alcohol	4.01	59	281	7.940	ug/l #	77
13) Acrolein	3.02	56	193	5.342	ug/l #	1
16) Acetone	3.23	43	1380	1.813	ug/l #	64
18) Methyl Acetate	3.66	43	2362	10.070	ug/l #	58
20) Methylene Chloride	3.82	84	5178	8.738	ug/l #	68
25) 2-Butanone	6.16	43	229	1.576	ug/l #	64
29) Tetrahydrofuran	6.32	42	201	2.923	ug/l #	33
31) Cyclohexane	7.06	56	1207	1.654	ug/l #	18
36) 1,1-Dichloropropene	7.05	75	4615	4.532	ug/l #	73
37) Ethyl Acetate	6.19	43	180	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	8038	5.248	ug/l #	13
51) 4-Methyl-2-Pentanone	10.42	43	571	1.508	ug/l #	60
81) trans-1,4-Dichloro-2-buten	13.56	75	17774	180.379	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.24	105	1908	1.061	ug/l #	66
95) Naphthalene	16.13	128	13338	14.142	ug/l #	95

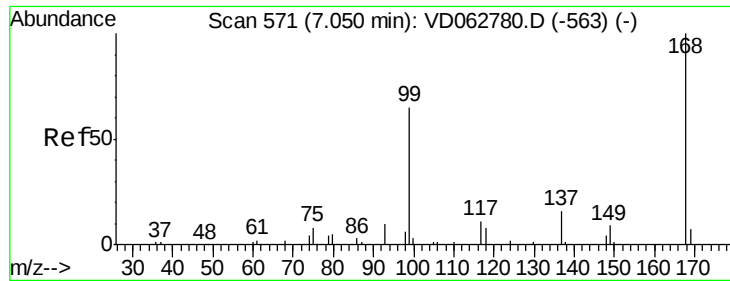
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

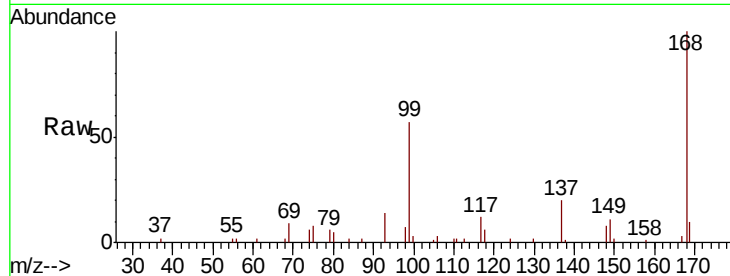
FK-PS-01-049RE

Tot Ion:168 Resp: 71486

Ion Ratio Lower Upper

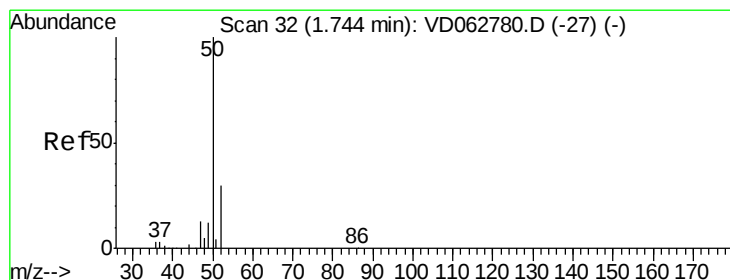
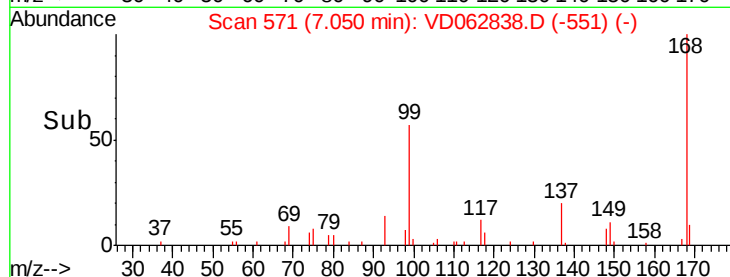
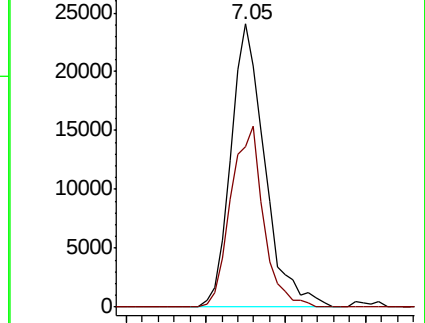
168 100

99 56.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.470 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062838.D

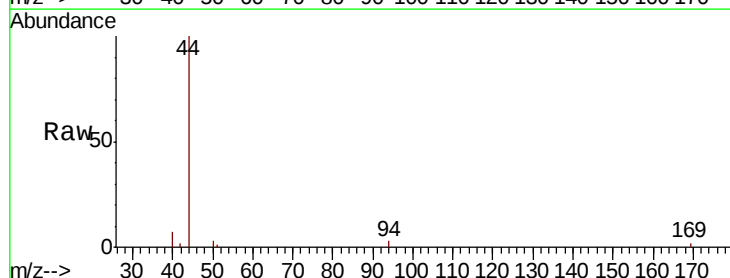
Acq: 24 Jun 2019 14:15

Tgt Ion: 50 Resp: 1023

Ion Ratio Lower Upper

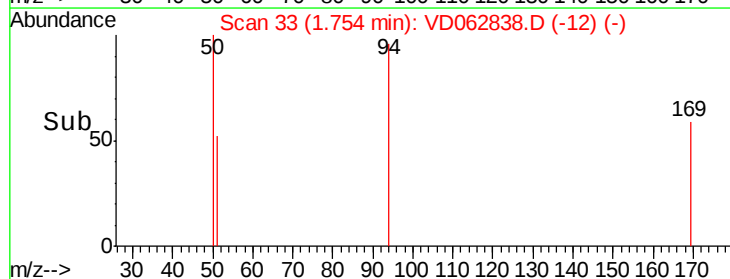
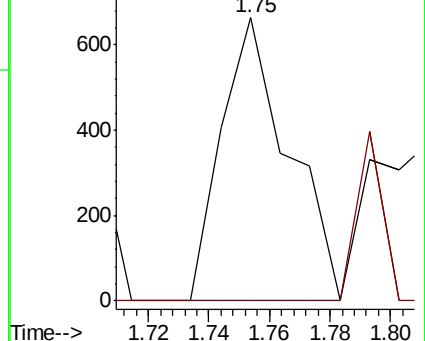
50 100

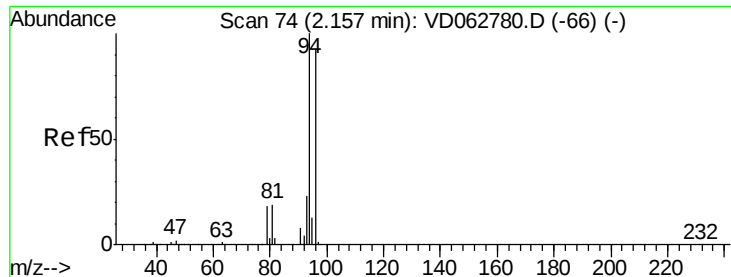
52 0.0 23.6 35.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 3.182 ug/l

RT: 2.19 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-049RE

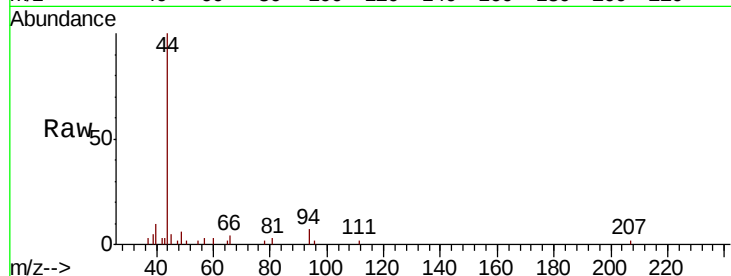
Tot Ion: 94 Resp: 1028

Ion Ratio Lower Upper

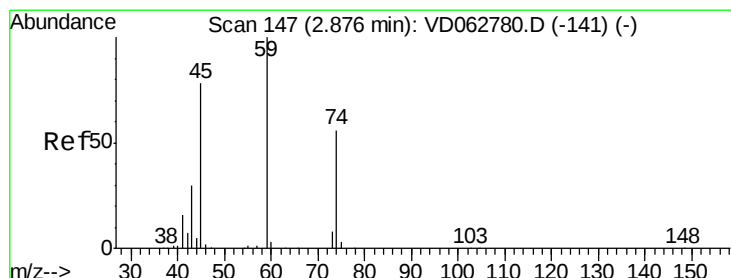
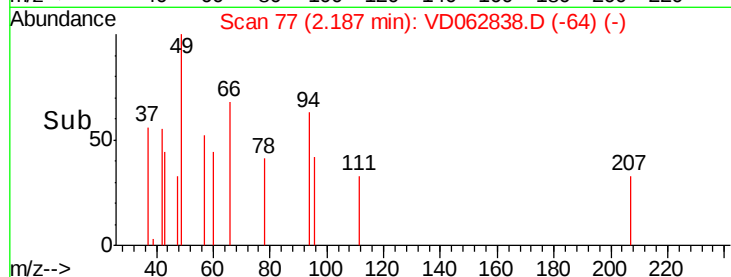
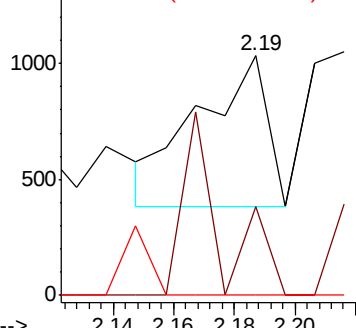
94 100

96 37.0 73.4 110.2#

93 0.0 18.2 27.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#8

Diethyl Ether

Concen: 1.336 ug/l

RT: 2.76 min Scan# 135

Delta R.T. -0.12 min

Lab File: VD062838.D

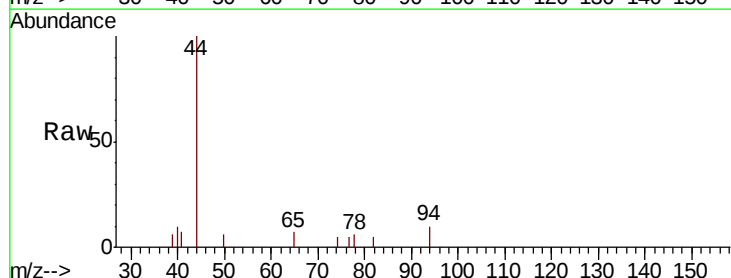
Acq: 24 Jun 2019 14:15

Tgt Ion: 74 Resp: 237

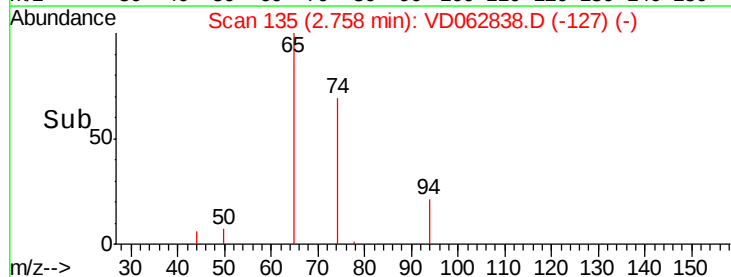
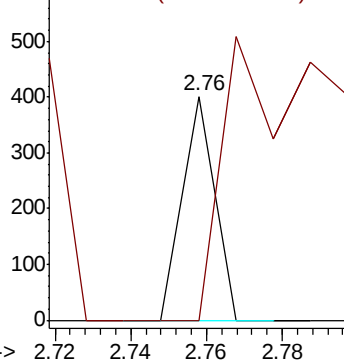
Ion Ratio Lower Upper

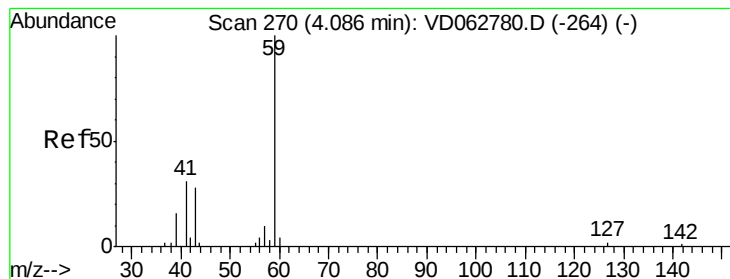
74 100

45 0.0 70.2 210.6#



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC



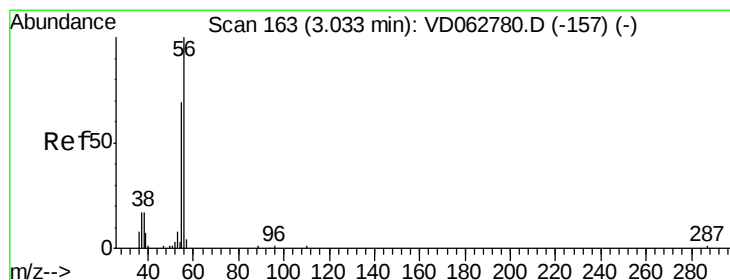
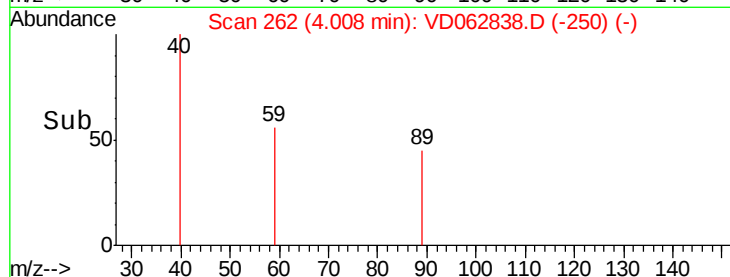
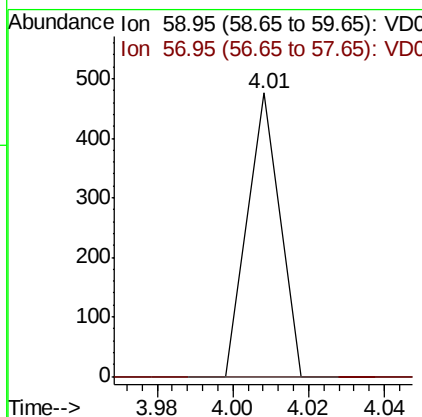
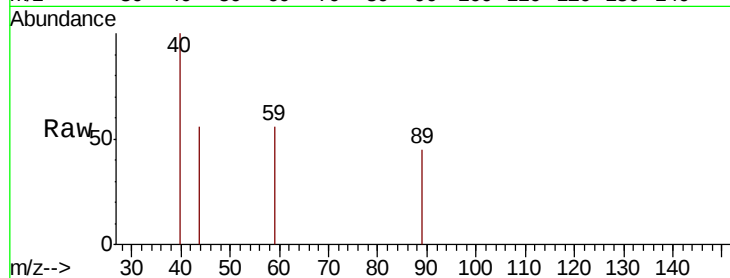


#11

Tert butyl alcohol
 Concen: 7.940 ug/l
 RT: 4.01 min Scan# 262
 Delta R.T. -0.08 min
 Lab File: VD062838.D
 Acq: 24 Jun 2019 14:15

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-049RE

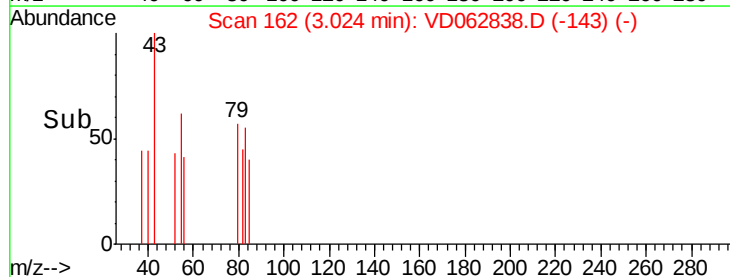
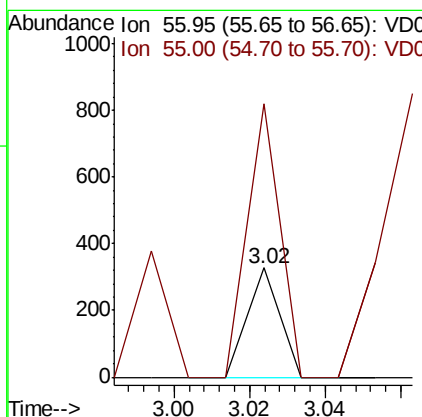
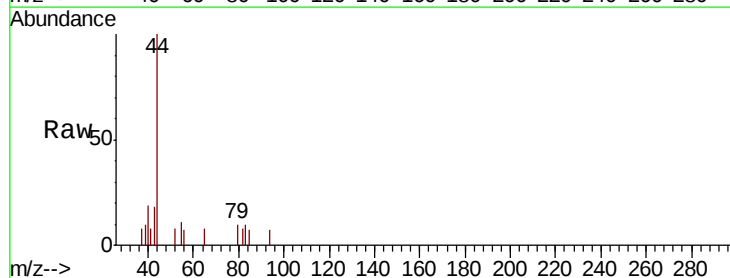
Tot Ion: 59 Resp: 281
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 10.0#

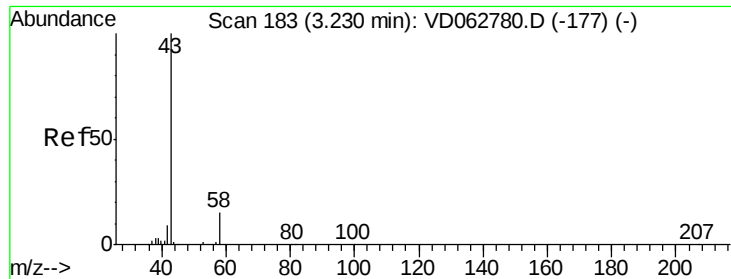


#13

Acrolein
 Concen: 5.342 ug/l
 RT: 3.02 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VD062838.D
 Acq: 24 Jun 2019 14:15

Tgt Ion: 56 Resp: 193
 Ion Ratio Lower Upper
 56 100
 55 250.5 55.4 83.0#





#16

Acetone

Concen: 1.813 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

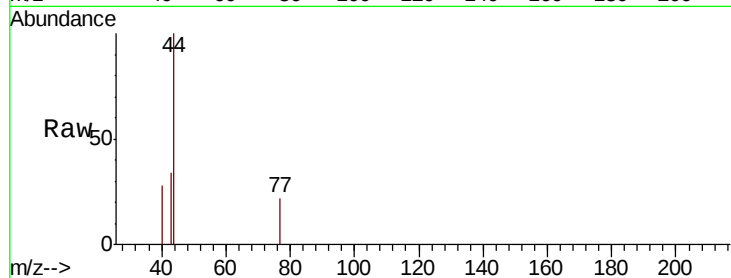
FK-PS-01-049RE

Tot Ion: 43 Resp: 1380

Ion Ratio Lower Upper

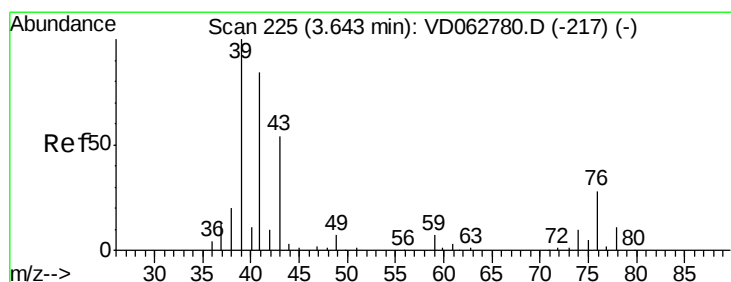
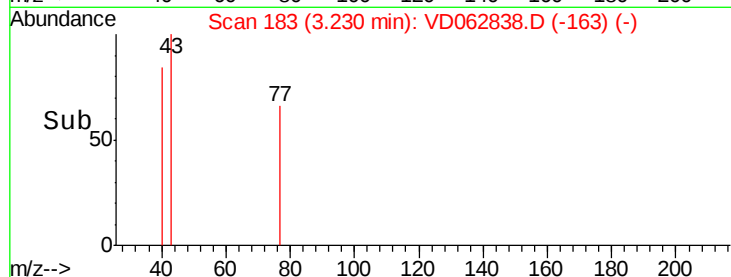
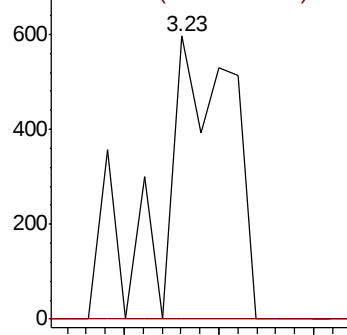
43 100

58 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 10.070 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.02 min

Lab File: VD062838.D

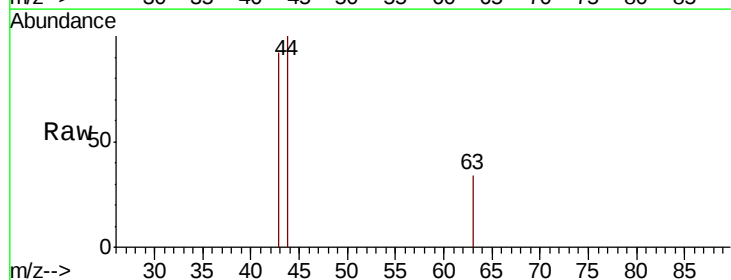
Acq: 24 Jun 2019 14:15

Tgt Ion: 43 Resp: 2362

Ion Ratio Lower Upper

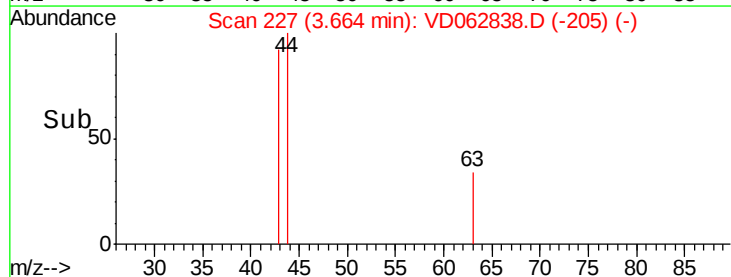
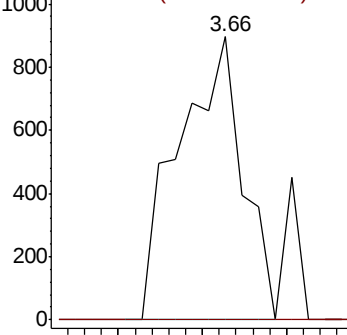
43 100

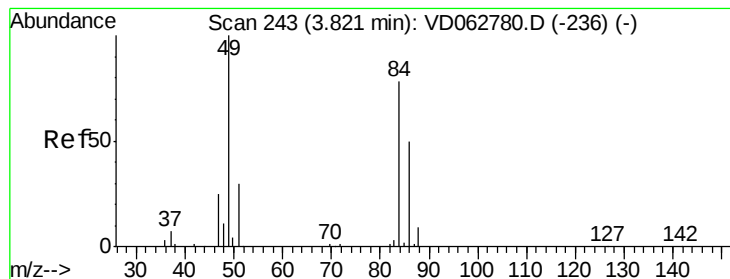
74 0.0 15.2 22.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 8.738 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-049RE

Tot Ion: 84 Resp: 5178

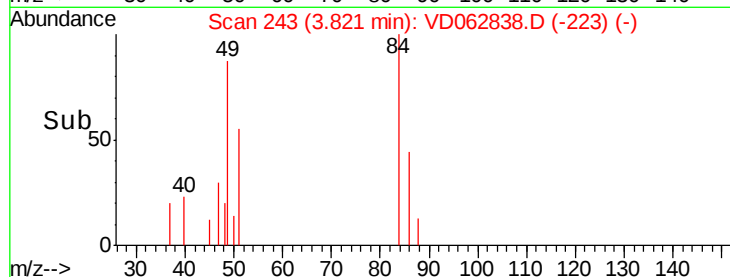
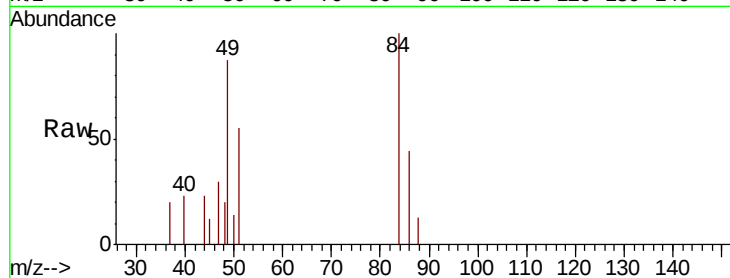
Ion Ratio Lower Upper

84 100

49 86.6 102.9 154.3#

51 54.7 31.2 46.8#

86 43.9 51.4 77.2#

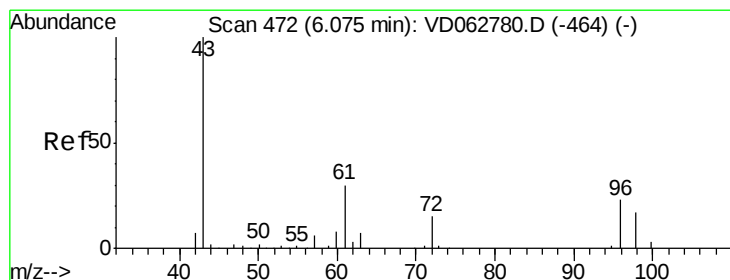
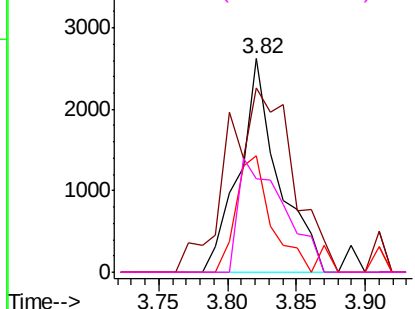


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#25

2-Butanone

Concen: 1.576 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.09 min

Lab File: VD062838.D

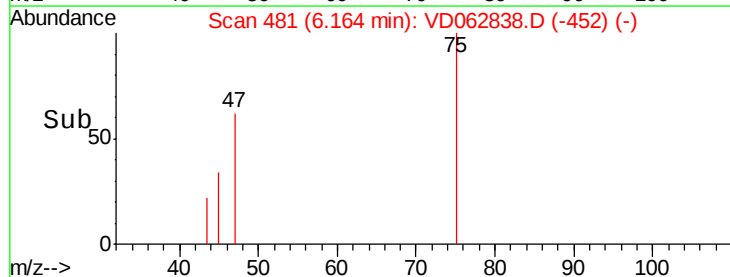
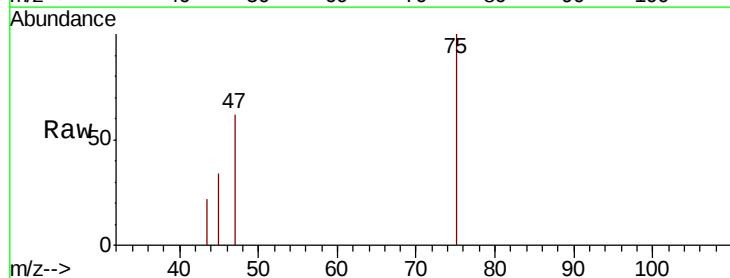
Acq: 24 Jun 2019 14:15

Tgt Ion: 43 Resp: 229

Ion Ratio Lower Upper

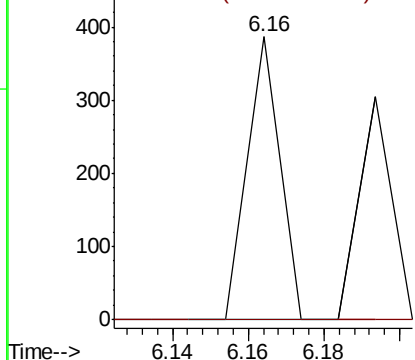
43 100

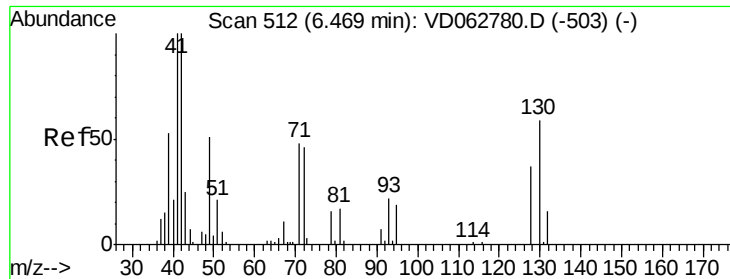
72 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 2.923 ug/l

RT: 6.32 min Scan# 497

Delta R.T. -0.15 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-049RE

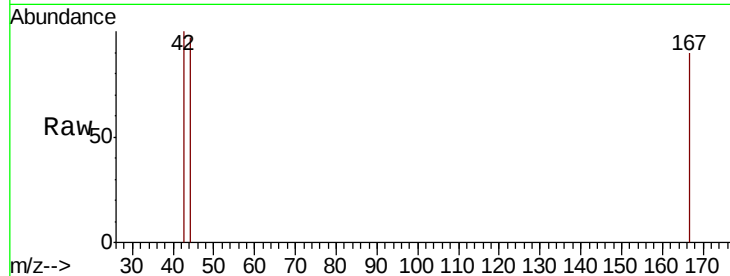
Tot Ion: 42 Resp: 201

Ion Ratio Lower Upper

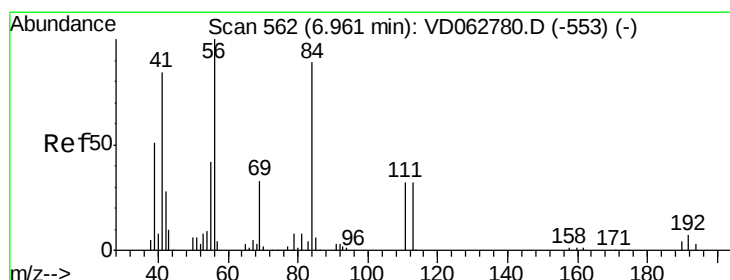
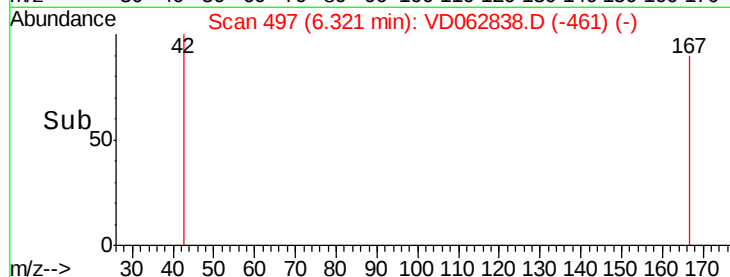
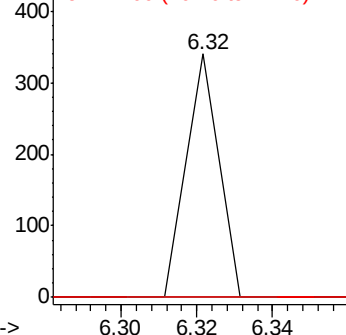
42 100

72 0.0 35.0 52.6#

71 0.0 33.3 49.9#



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: 1.654 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

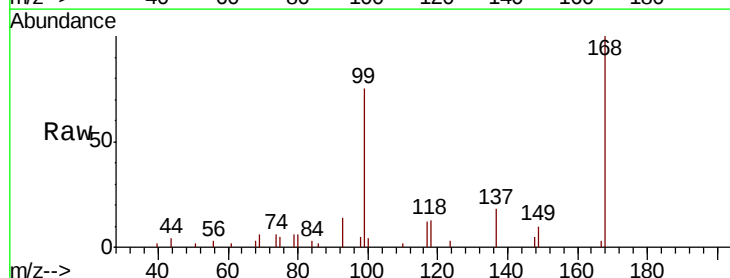
Tgt Ion: 56 Resp: 1207

Ion Ratio Lower Upper

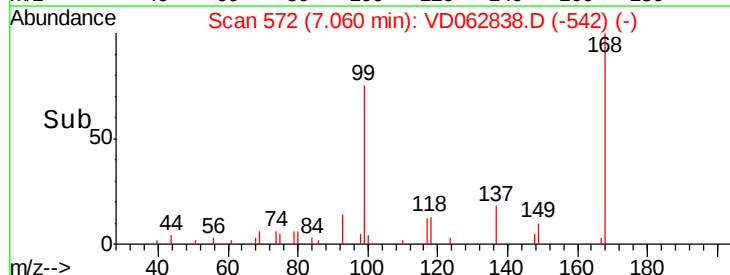
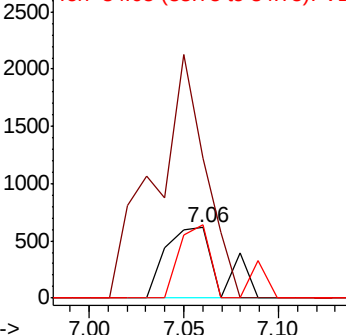
56 100

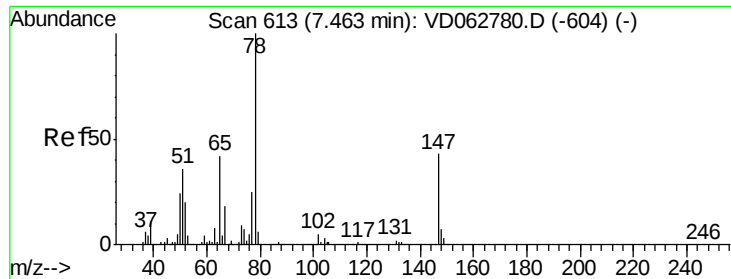
69 197.9 26.6 39.8#

84 102.9 75.5 113.3



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 102.064 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

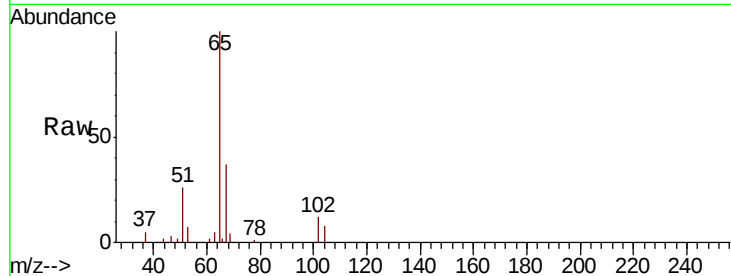
FK-PS-01-049RE

Tot Ion: 65 Resp: 79308

Ion Ratio Lower Upper

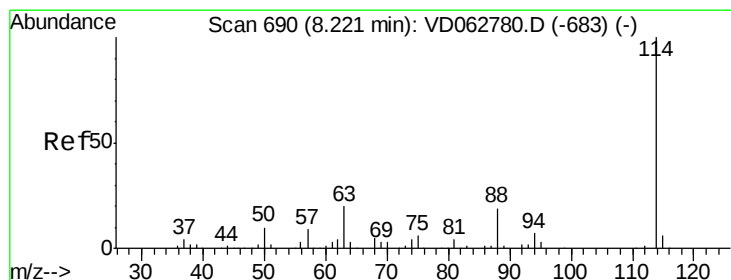
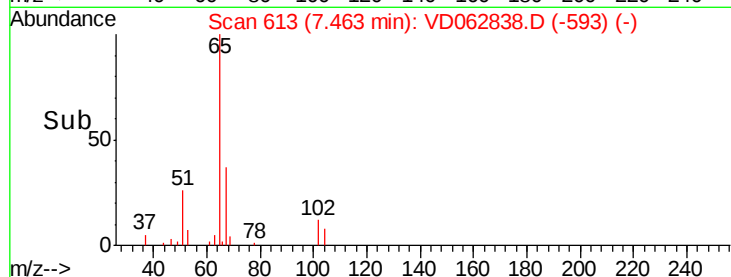
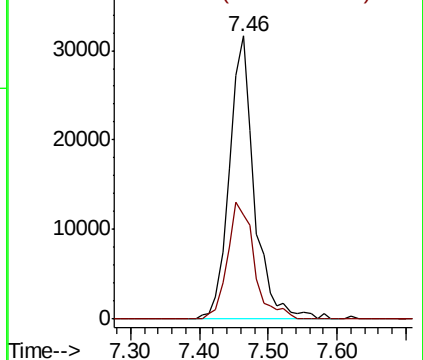
65 100

67 36.9 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

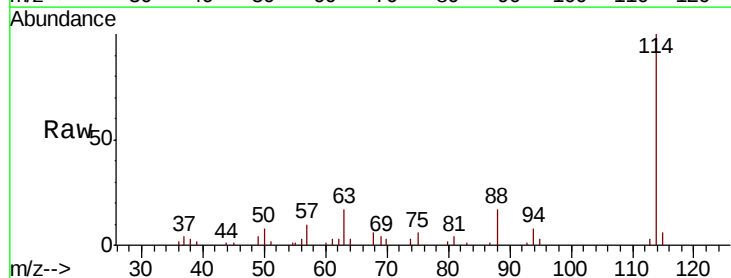
Tgt Ion: 114 Resp: 107575

Ion Ratio Lower Upper

114 100

63 16.8 0.0 40.0

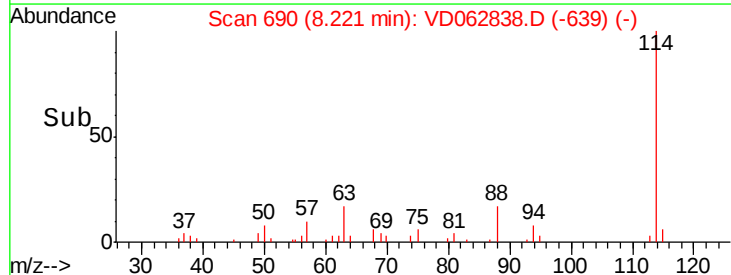
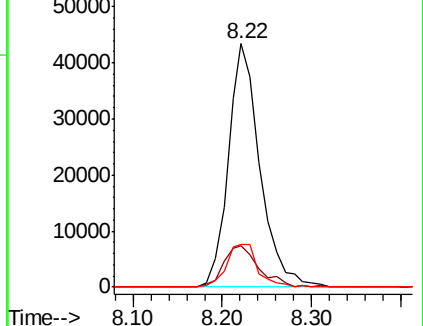
88 17.4 0.0 38.8

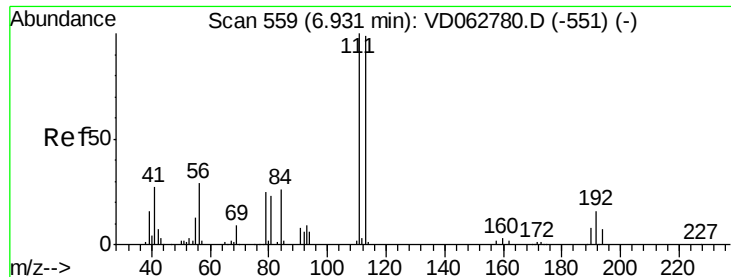


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 63.907 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-049RE

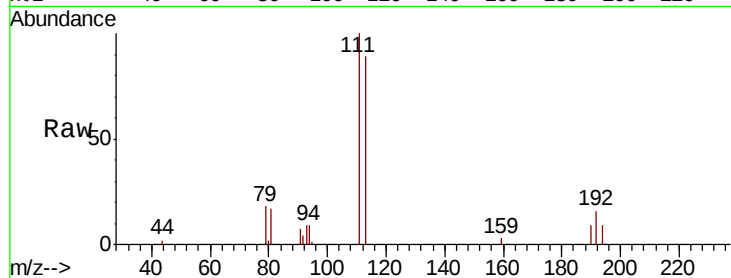
Tot Ion:113 Resp: 57968

Ion Ratio Lower Upper

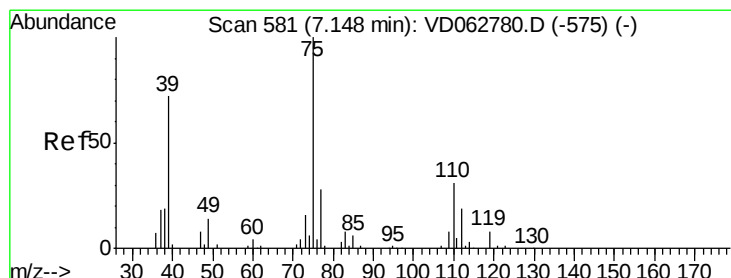
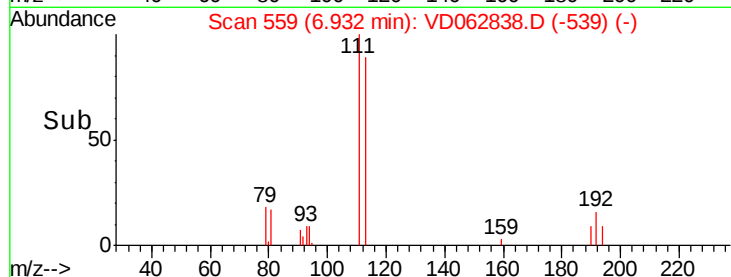
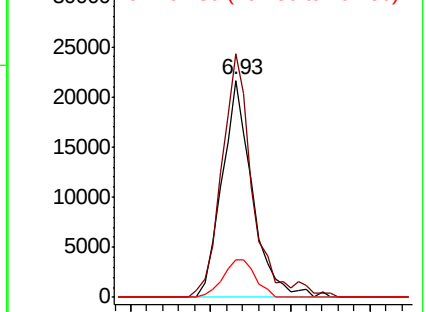
113 100

111 112.1 81.2 121.8

192 17.5 12.9 19.3



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.532 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

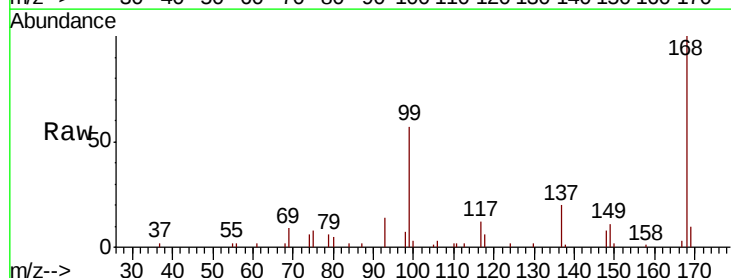
Tgt Ion: 75 Resp: 4615

Ion Ratio Lower Upper

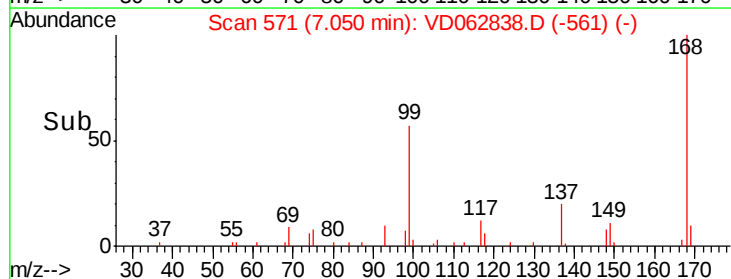
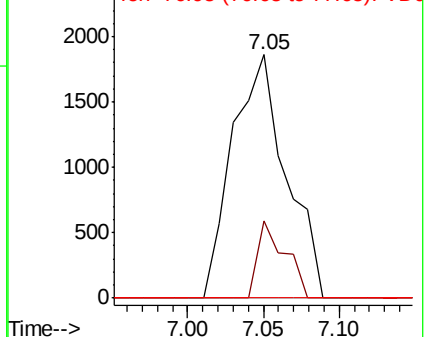
75 100

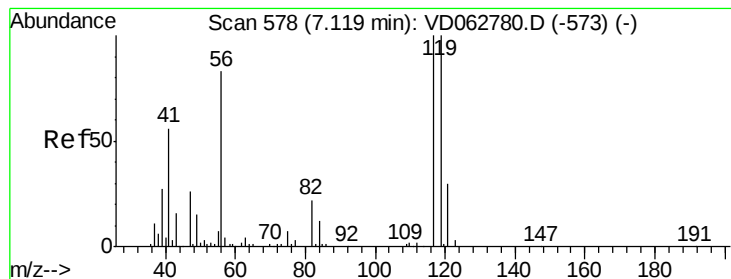
110 31.9 15.0 45.1

77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.248 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-049RE

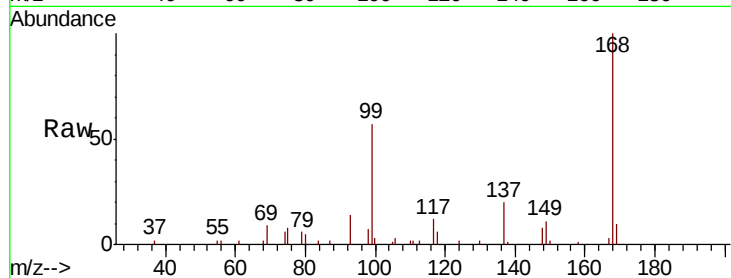
Tot Ion:117 Resp: 8038

Ion Ratio Lower Upper

117 100

119 0.0 75.4 113.2#

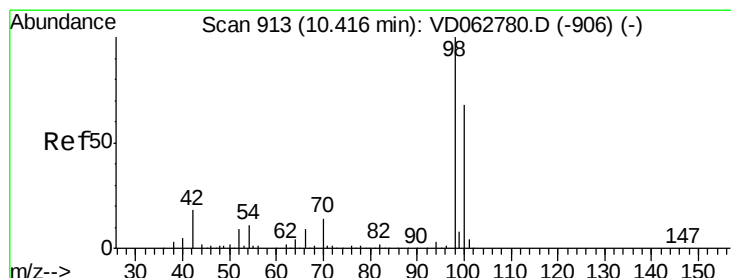
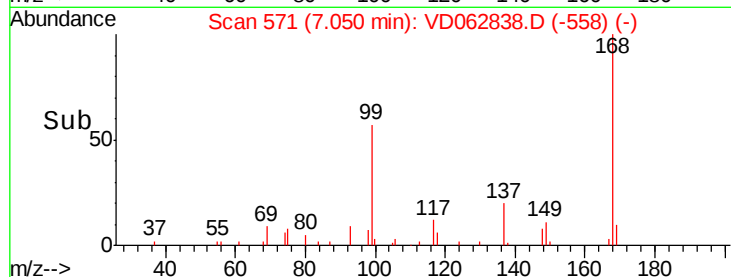
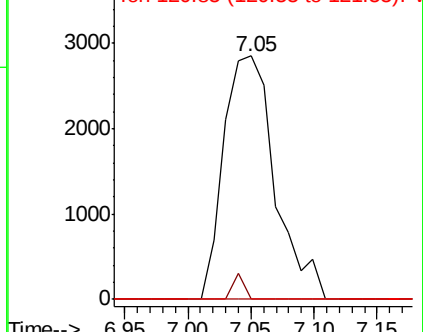
121 0.0 22.3 33.5#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 49.874 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062838.D

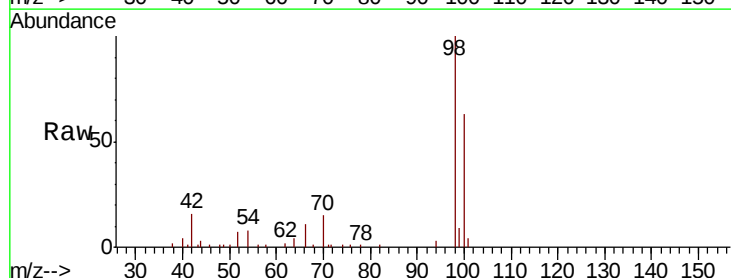
Acq: 24 Jun 2019 14:15

Tgt Ion: 98 Resp: 98461

Ion Ratio Lower Upper

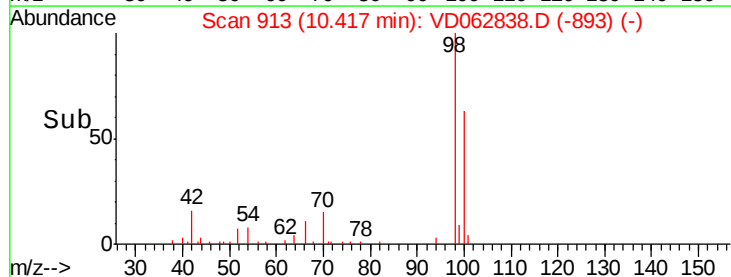
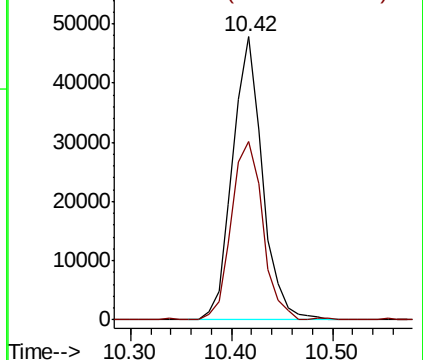
98 100

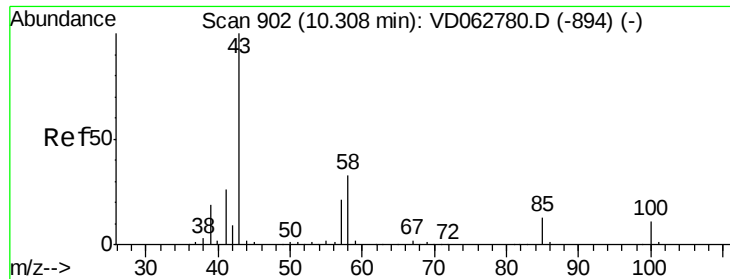
100 63.0 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.508 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleID :

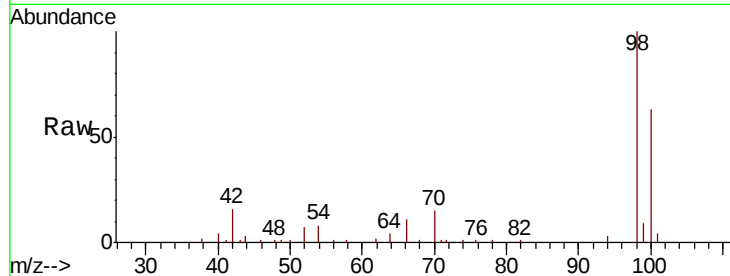
FK-PS-01-049RE

Tot Ion: 43 Resp: 571

Ion Ratio Lower Upper

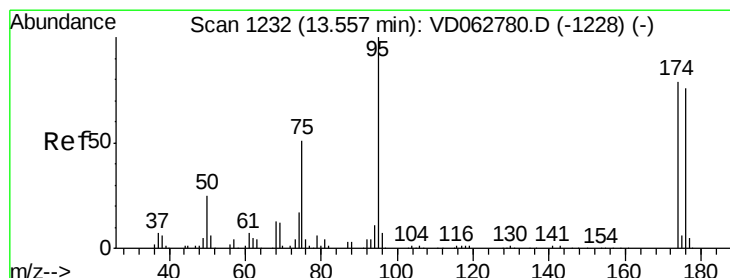
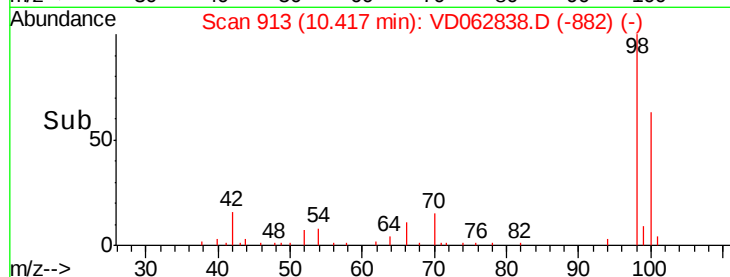
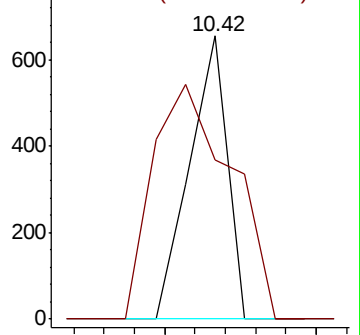
43 100

58 56.1 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 39.116 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

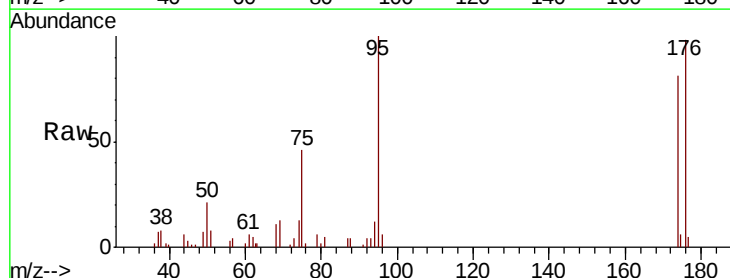
Tgt Ion: 95 Resp: 35114

Ion Ratio Lower Upper

95 100

174 81.3 0.0 158.0

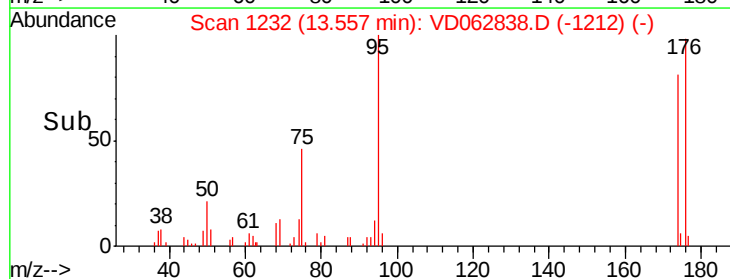
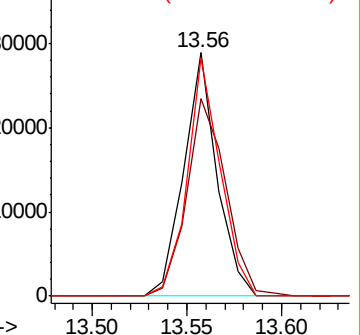
176 98.1 0.0 151.6

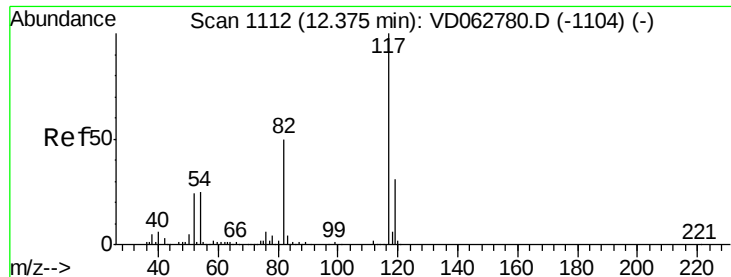


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

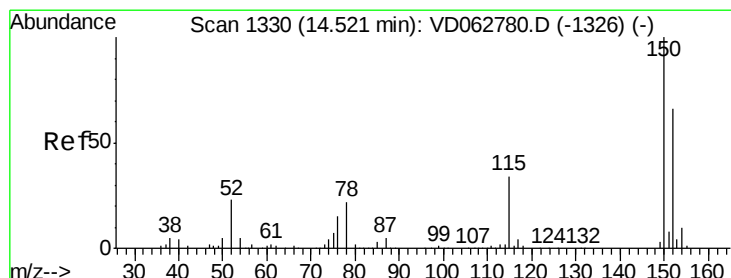
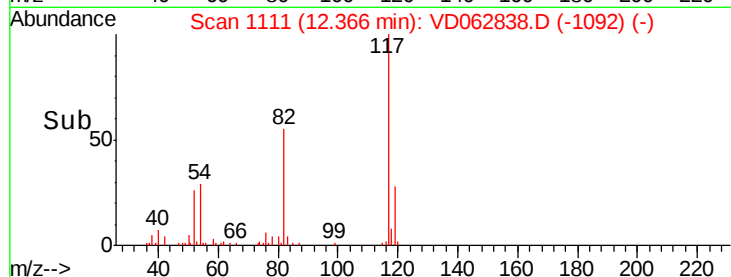
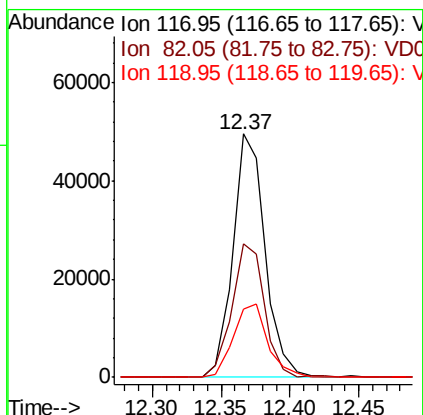
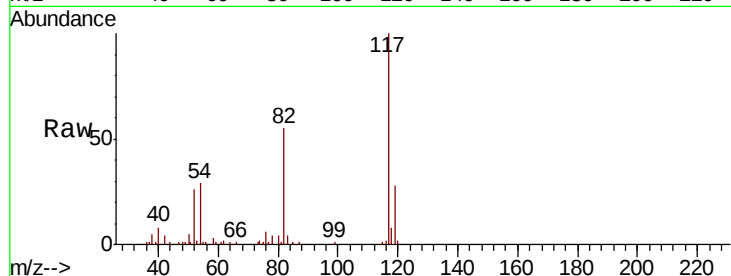




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062838.D
Acq: 24 Jun 2019 14:15

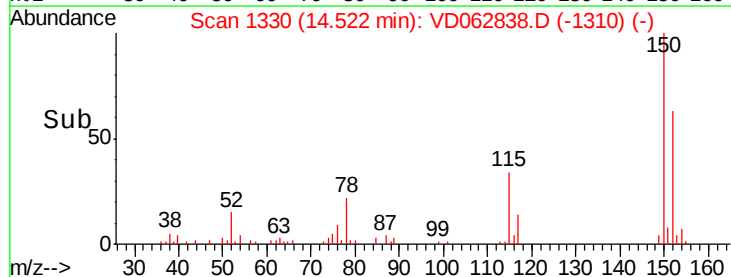
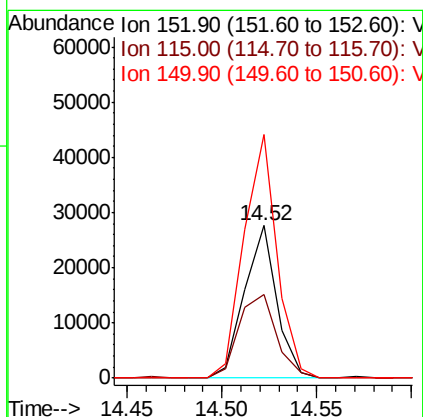
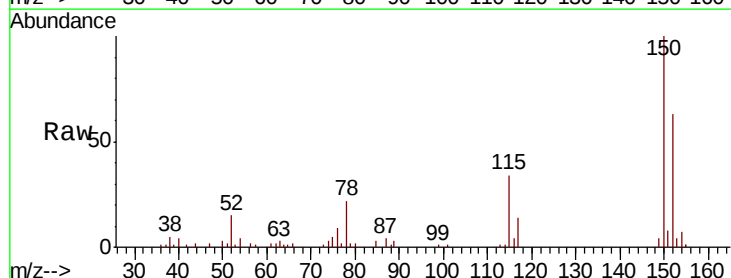
Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-049RE

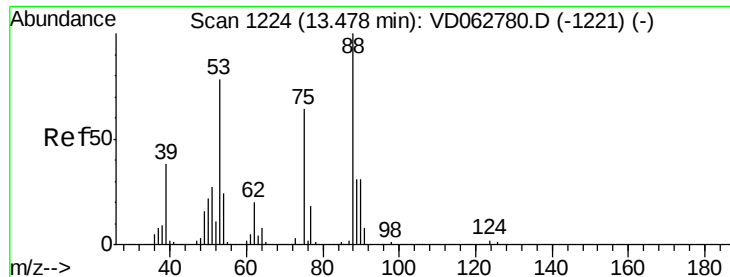
Tot Ion:117 Resp: 80048
Ion Ratio Lower Upper
117 100
82 54.9 40.4 60.6
119 28.1 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062838.D
Acq: 24 Jun 2019 14:15

Tgt Ion:152 Resp: 32568
Ion Ratio Lower Upper
152 100
115 54.7 29.2 87.6
150 159.9 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 180.379 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062838.D

Acq: 24 Jun 2019 14:15

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-049RE

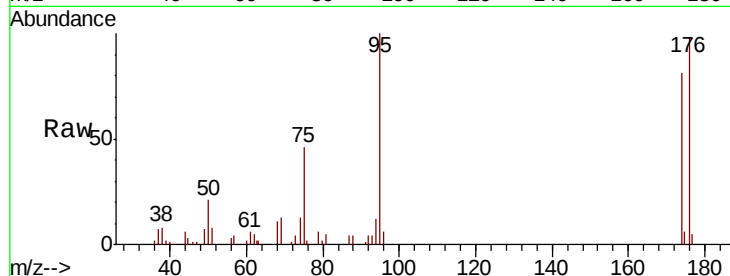
Tot Ion: 75 Resp: 17774

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

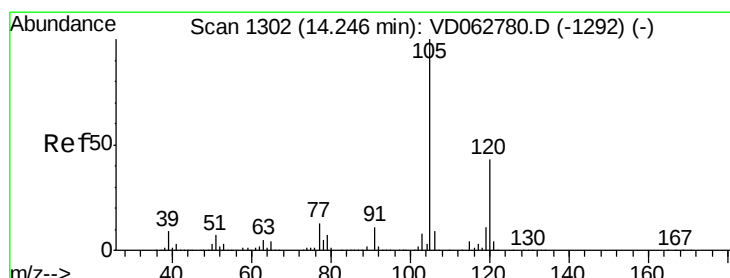
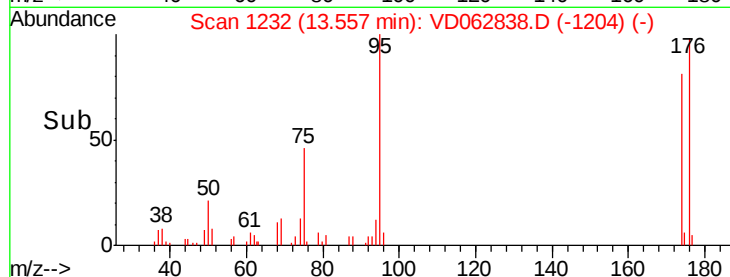
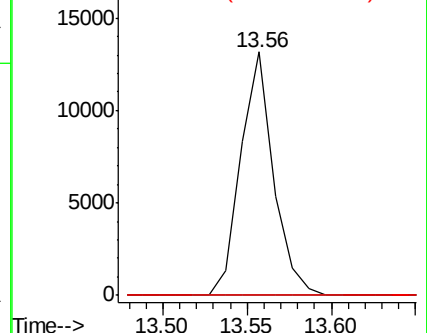
89 0.0 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 1.061 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD062838.D

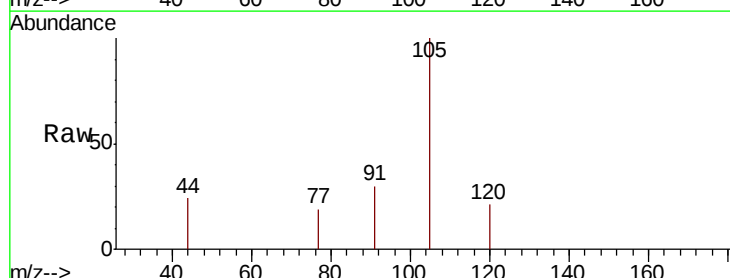
Acq: 24 Jun 2019 14:15

Tgt Ion:105 Resp: 1908

Ion Ratio Lower Upper

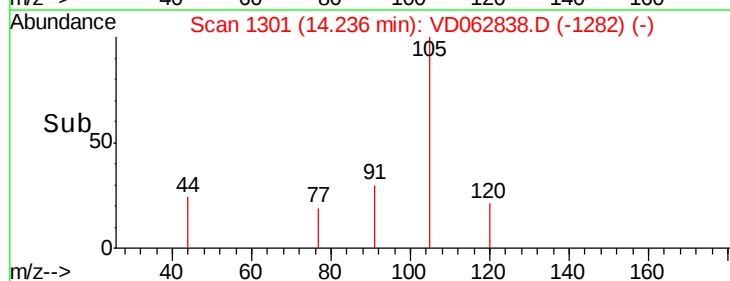
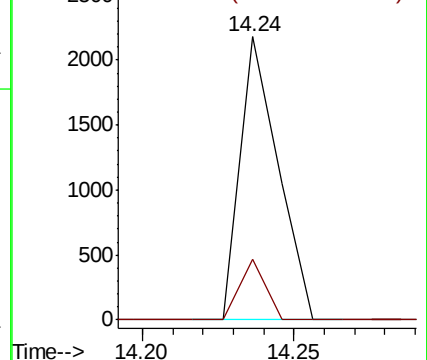
105 100

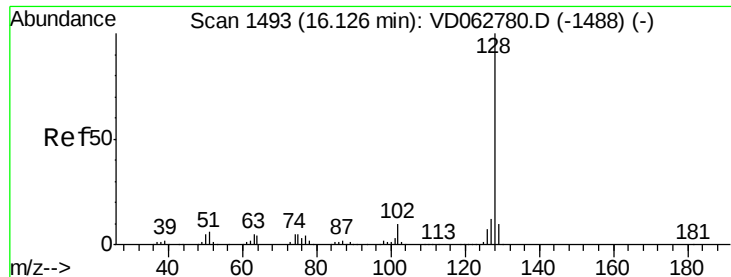
120 21.2 21.3 63.9#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95
 Naphthalene
 Concen: 14.142 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062838.D
 Acq: 24 Jun 2019 14:15

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-049RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	9.7	14.5
129	12.6	8.3	12.5

