

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082219\
 Data File : VD063751.D
 Acq On : 22 Aug 2019 23:26
 Operator : JC/SY
 Sample : K4491-05
 Misc : 5.43g/5ml/MSVOA_D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1VS

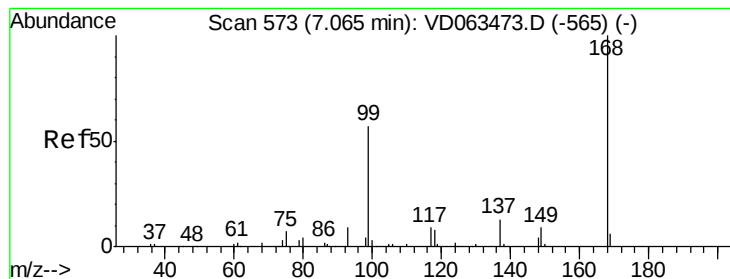
Quant Time: Aug 23 07:02:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	787251	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	974447	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	626390	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	172041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	524506	62.33	ug/l	-0.03
Spiked Amount						
			Recovery	=	124.66%	
35) Dibromofluoromethane	6.92	113	612204	74.60	ug/l	-0.02
Spiked Amount						
			Recovery	=	149.20%	
50) Toluene-d8	10.40	98	1120725	62.11	ug/l	-0.02
Spiked Amount						
			Recovery	=	124.22%	
62) 4-Bromofluorobenzene	13.55	95	241959	29.59	ug/l	0.00
Spiked Amount						
			Recovery	=	59.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	3767	1.841	ug/l	81
11) Tert butyl alcohol	4.05	59	2100	5.733	ug/l #	71
16) Acetone	3.21	43	123083	71.952	ug/l	97
18) Methyl Acetate	3.63	43	4045	1.248	ug/l #	57
20) Methylene Chloride	3.80	84	72433	9.792	ug/l	86
25) 2-Butanone	6.07	43	3288	1.946	ug/l #	58
27) cis-1,2-Dichloroethene	6.02	96	92091	12.574	ug/l	90
29) Tetrahydrofuran	6.46	42	6147	7.808	ug/l	91
31) Cyclohexane	7.03	56	17503	2.304	ug/l #	14
36) 1,1-Dichloropropene	7.04	75	58883	6.835	ug/l #	47
38) Carbon Tetrachloride	7.04	117	73925	5.694	ug/l #	18
44) Trichloroethene	8.54	130	69410	9.579	ug/l	83
51) 4-Methyl-2-Pentanone	10.40	43	6677	2.018	ug/l #	1
64) Tetrachloroethene	11.25	164	94477	19.538	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.55	75	103342	194.734	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

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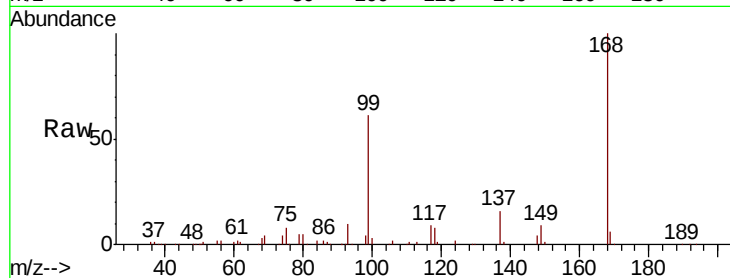
TS-1VS

Tgt Ion:168 Resp: 787251

Ion Ratio Lower Upper

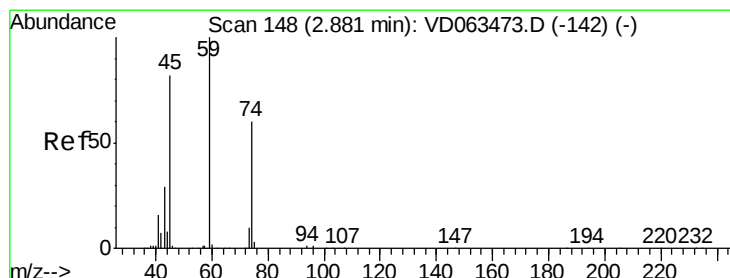
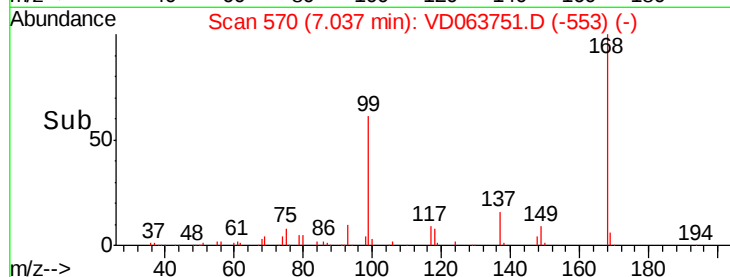
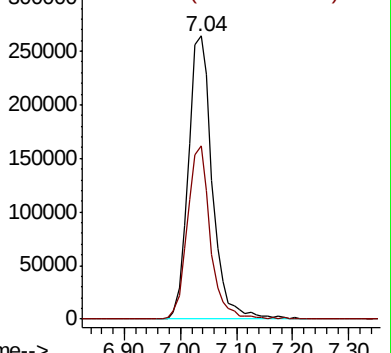
168 100

99 61.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.841 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063751.D

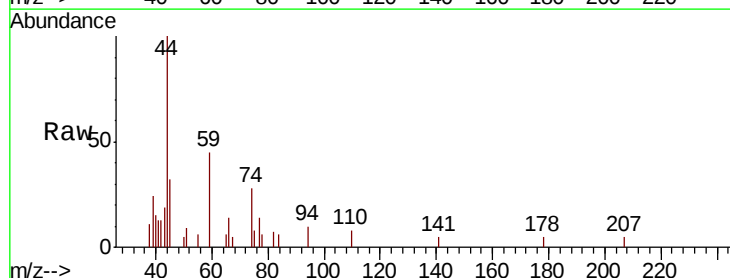
Acq: 22 Aug 2019 23:26

Tgt Ion: 74 Resp: 3767

Ion Ratio Lower Upper

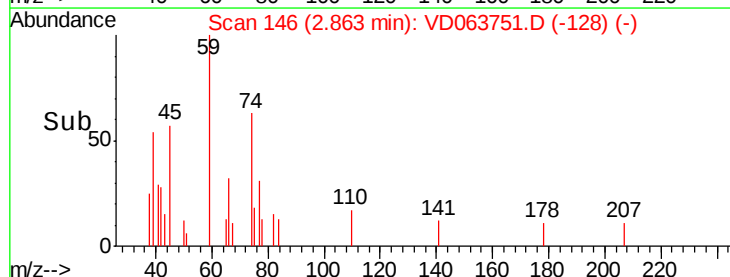
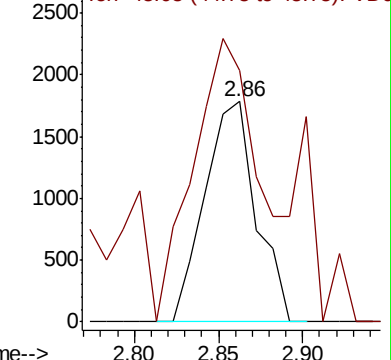
74 100

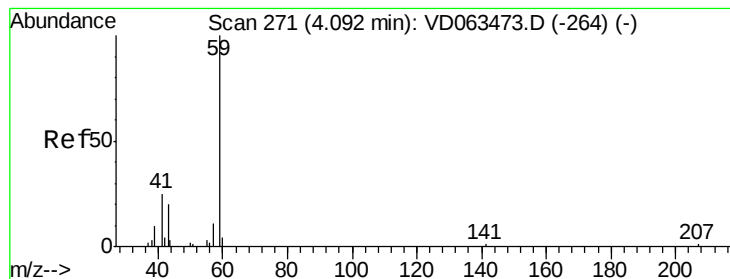
45 114.2 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#11

Tert butyl alcohol

Concen: 5.733 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.04 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

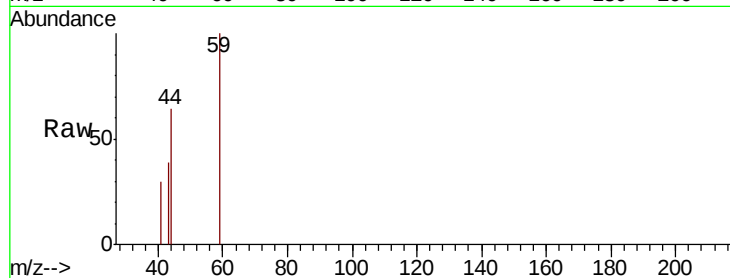
TS-1VS

Tgt Ion: 59 Resp: 2100

Ion Ratio Lower Upper

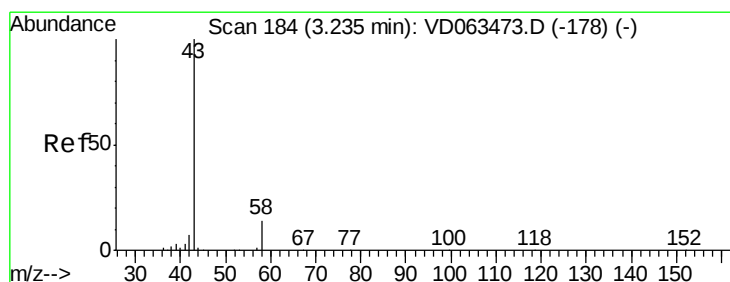
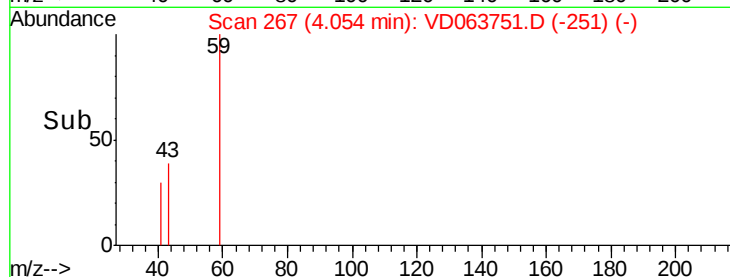
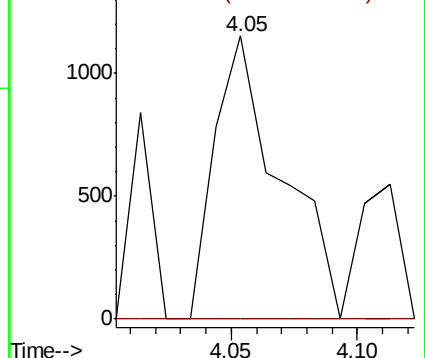
59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 71.952 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063751.D

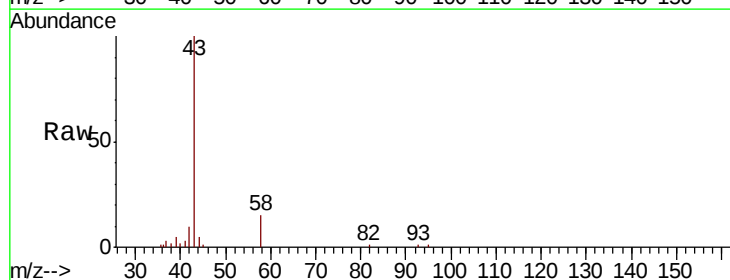
Acq: 22 Aug 2019 23:26

Tgt Ion: 43 Resp: 123083

Ion Ratio Lower Upper

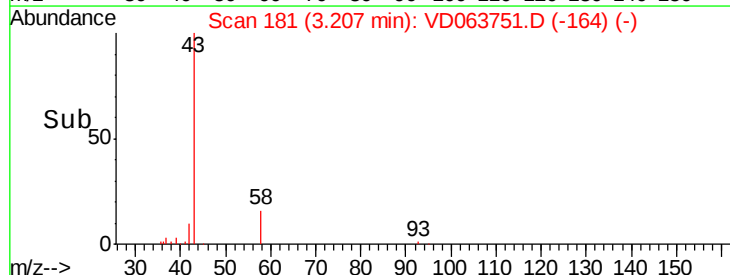
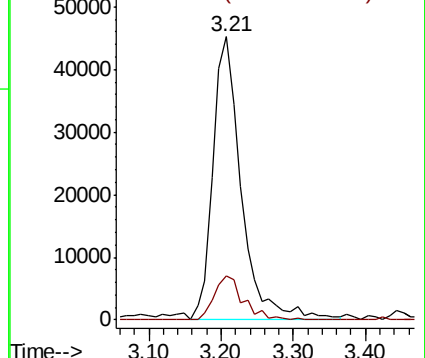
43 100

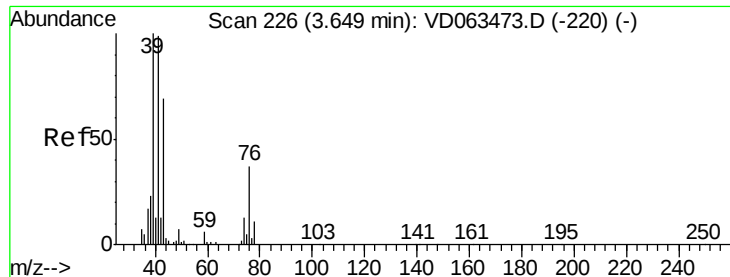
58 15.5 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

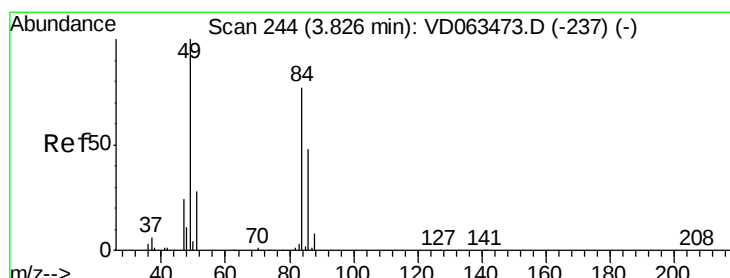
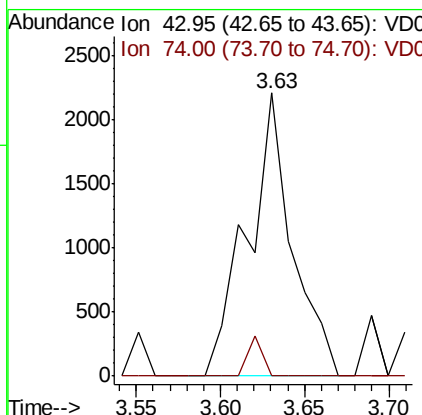
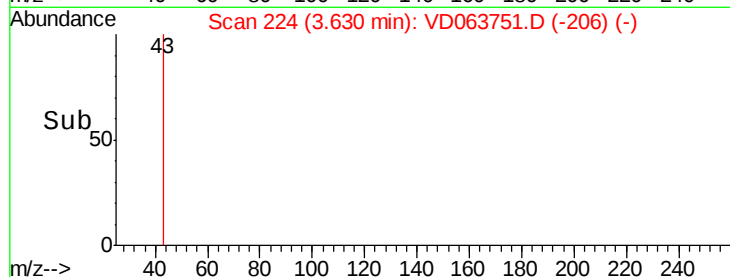
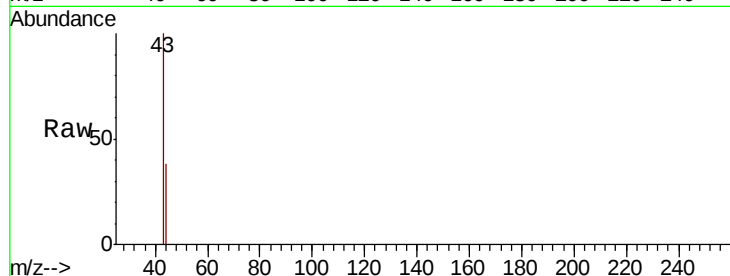




#18
Methyl Acetate
Concen: 1.248 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.02 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

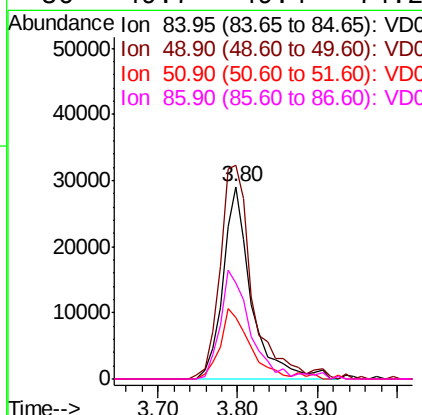
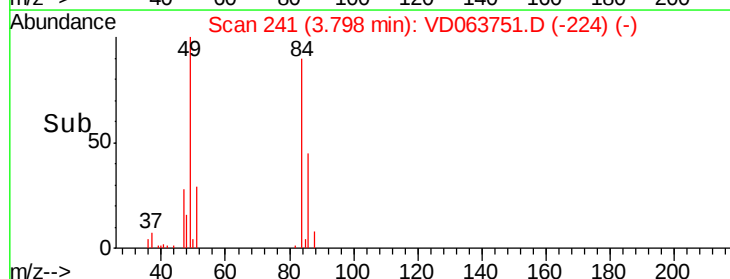
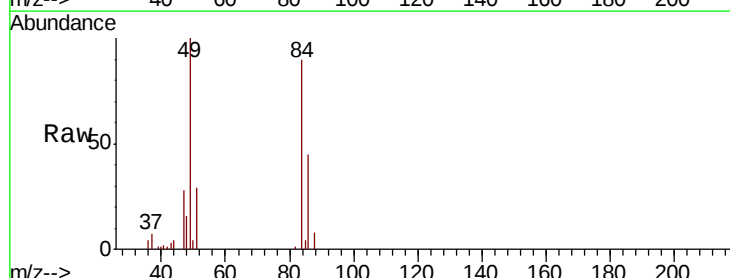
Instrument :
MSVOA_D
ClientSampleId :
TS-1VS

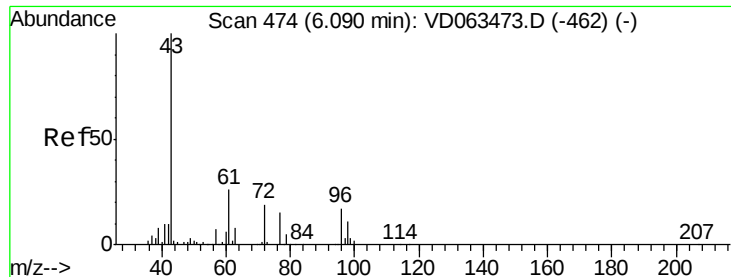
Tgt Ion: 43 Resp: 4045
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 9.792 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

Tgt Ion: 84 Resp: 72433
Ion Ratio Lower Upper
84 100
49 111.1 103.4 155.2
51 32.1 28.5 42.7
86 49.7 49.4 74.2





#25

2-Butanone

Concen: 1.946 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

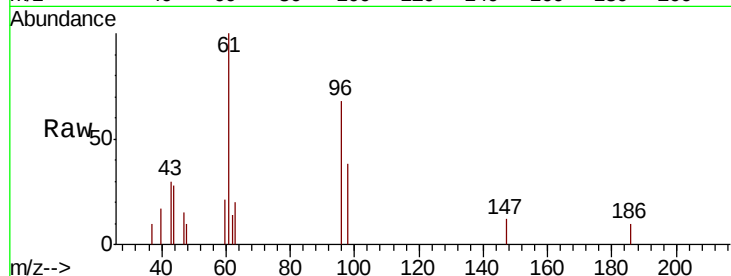
TS-1VS

Tgt Ion: 43 Resp: 3288

Ion Ratio Lower Upper

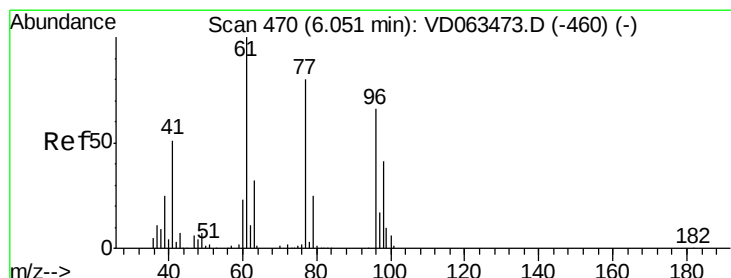
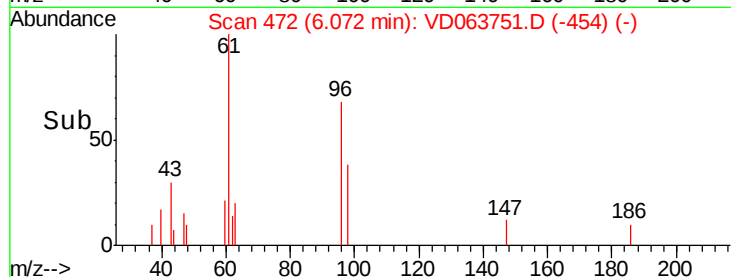
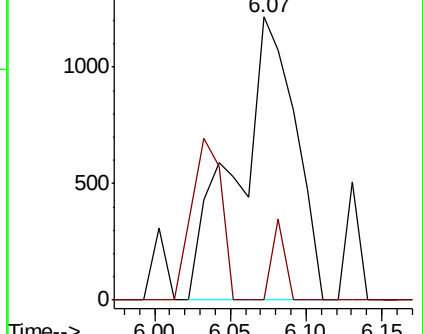
43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 12.574 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.03 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

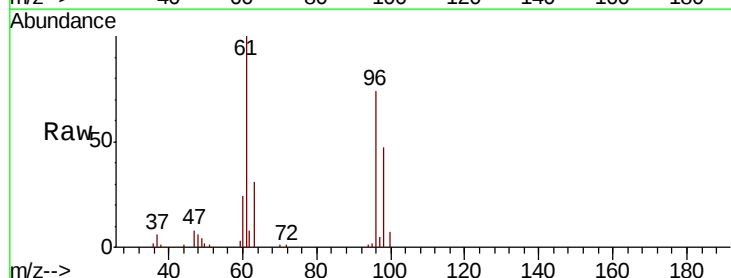
Tgt Ion: 96 Resp: 92091

Ion Ratio Lower Upper

96 100

61 135.0 0.0 304.0

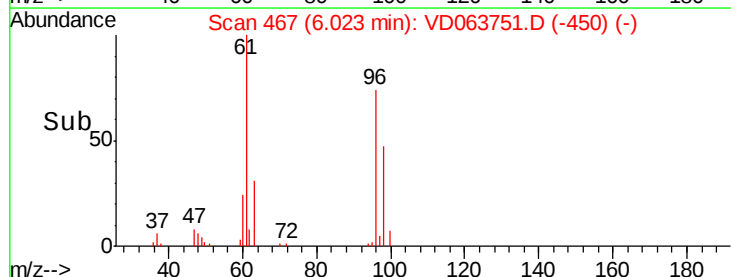
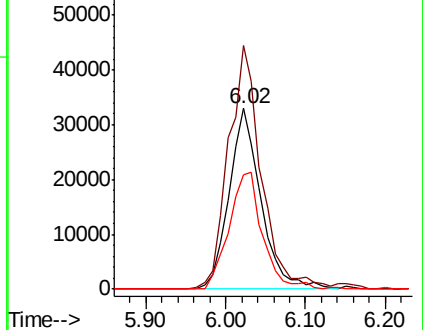
98 63.2 0.0 124.8

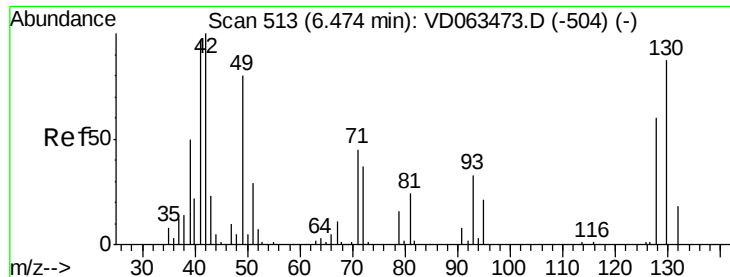


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#29

Tetrahydrofuran

Concen: 7.808 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.02 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

TS-1VS

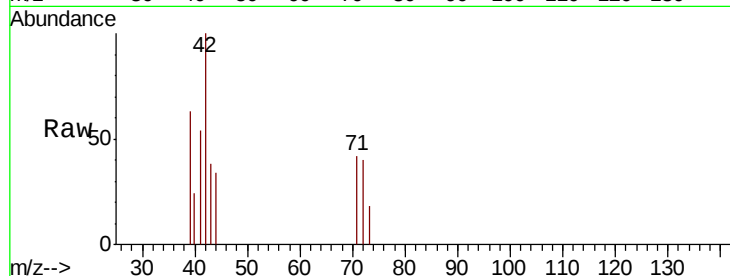
Tgt Ion: 42 Resp: 6147

Ion Ratio Lower Upper

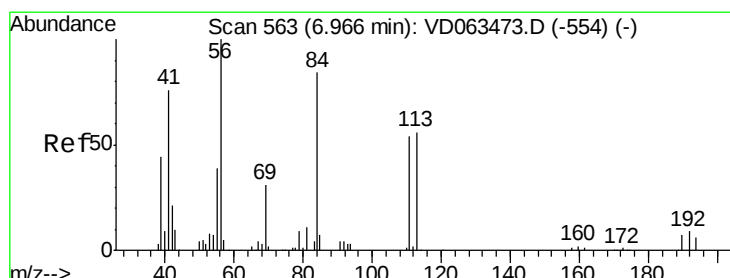
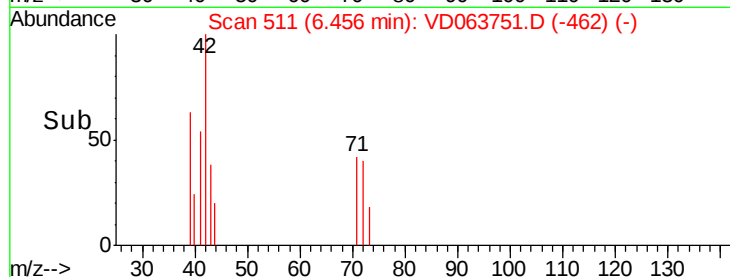
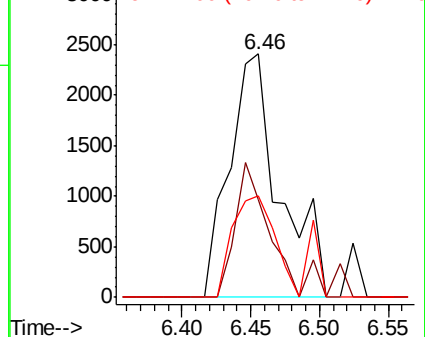
42 100

72 35.9 31.5 47.3

71 35.0 33.8 50.8



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: 2.304 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.06 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

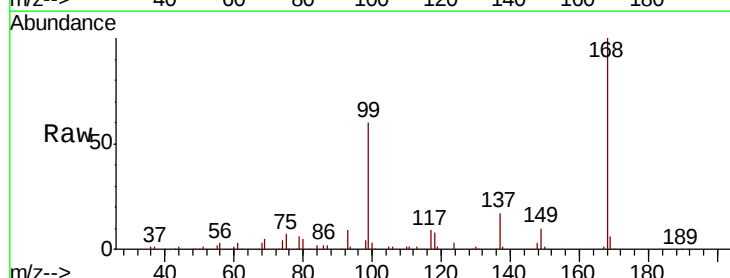
Tgt Ion: 56 Resp: 17503

Ion Ratio Lower Upper

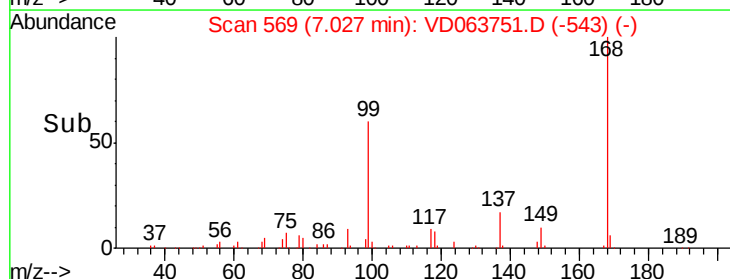
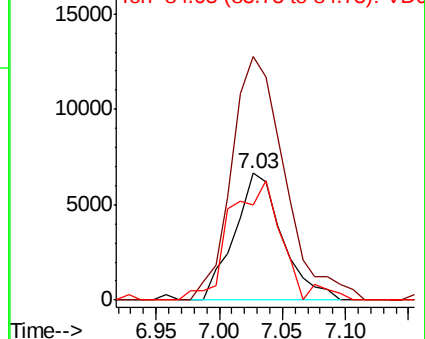
56 100

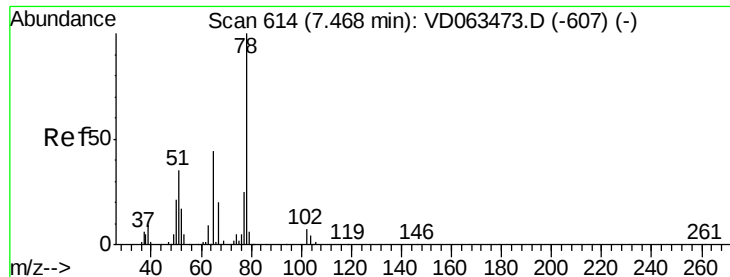
69 192.2 25.0 37.6#

84 75.5 69.7 104.5



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

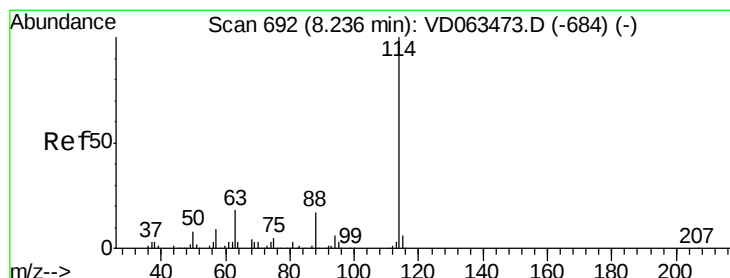
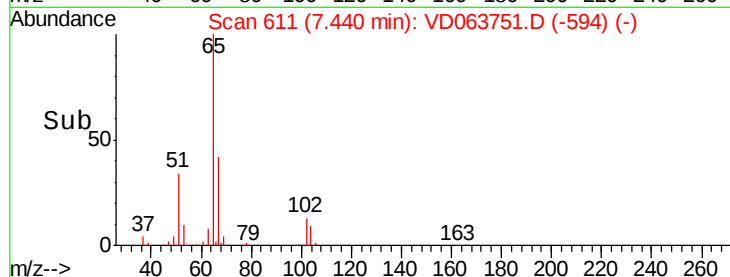
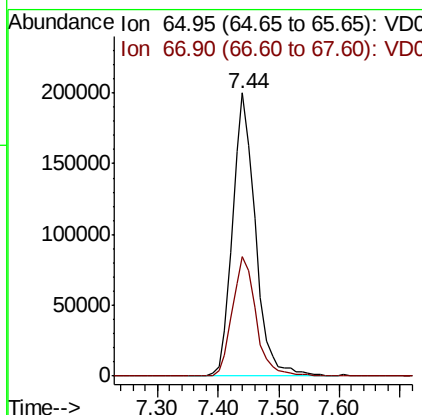
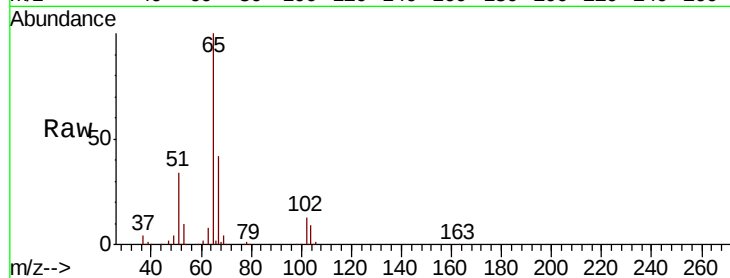




#33
 1,2-Dichloroethane-d4
 Concen: 62.329 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD063751.D
 Acq: 22 Aug 2019 23:26

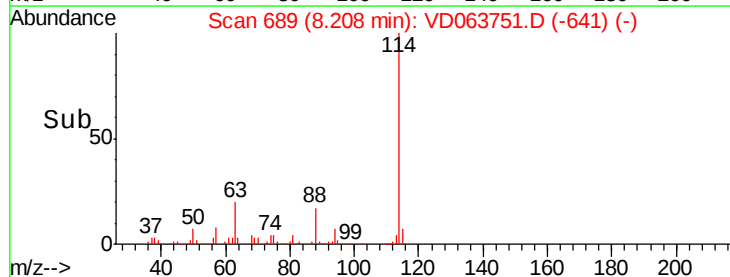
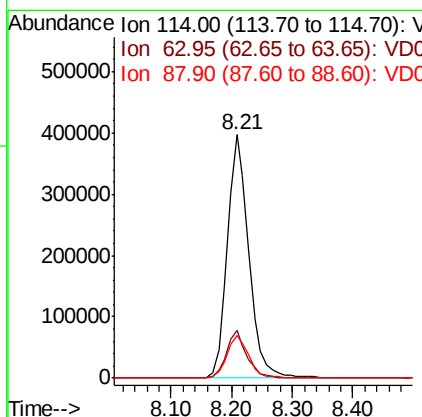
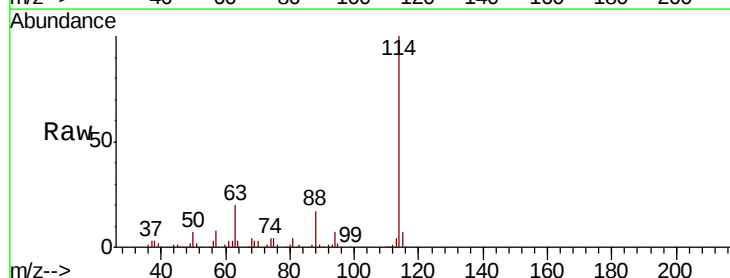
Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1VS

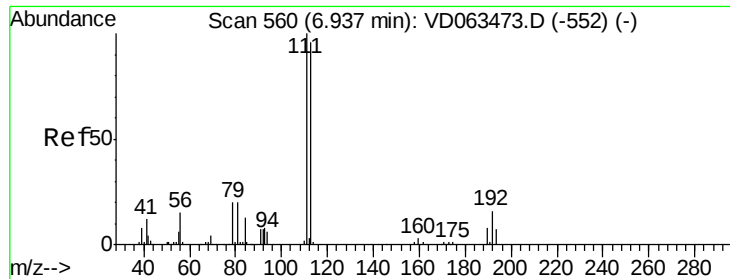
Tgt Ion: 65 Resp: 524506
 Ion Ratio Lower Upper
 65 100
 67 42.4 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD063751.D
 Acq: 22 Aug 2019 23:26

Tgt Ion: 114 Resp: 974447
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 36.2
 88 17.3 0.0 35.0

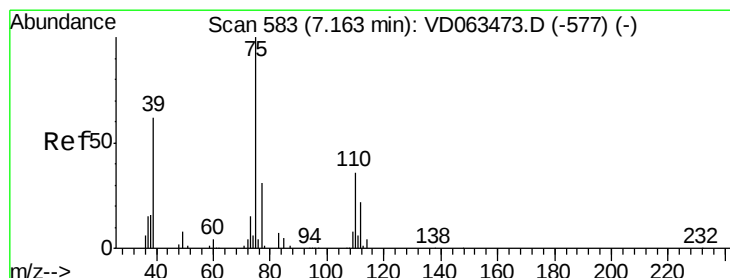
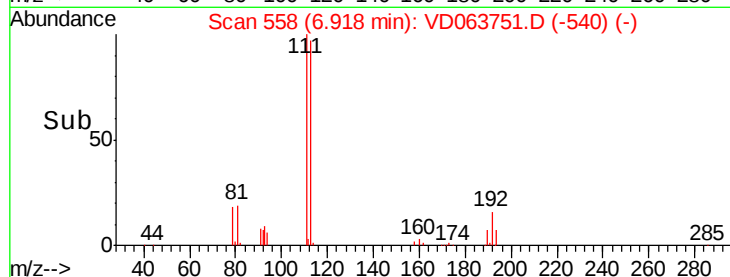
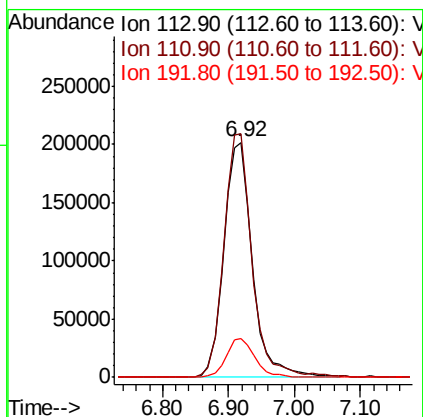
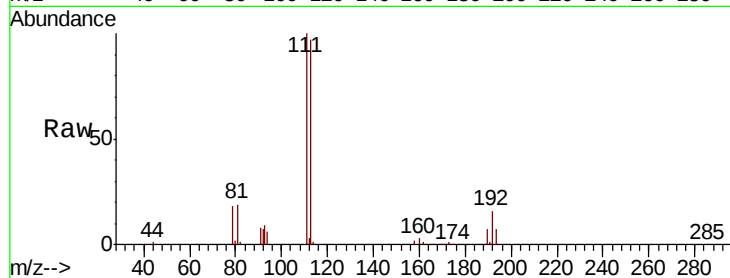




#35
 Dibromofluoromethane
 Concen: 74.597 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD063751.D
 Acq: 22 Aug 2019 23:26

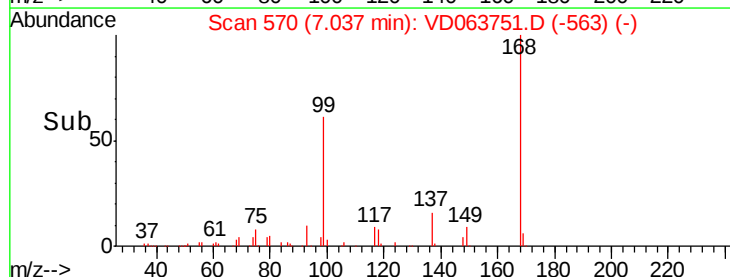
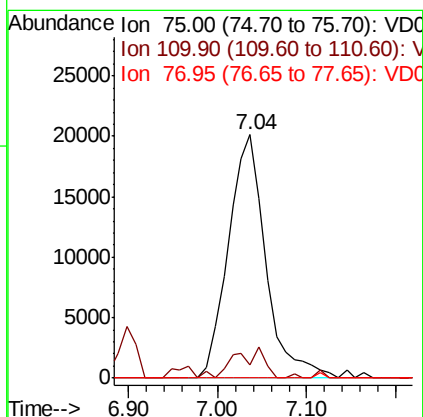
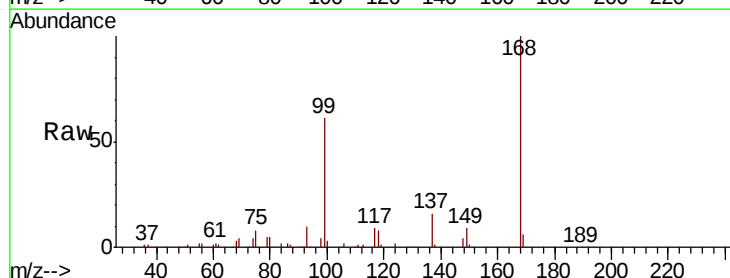
Instrument :
 MSVOA_D
 ClientSampled :
 TS-1VS

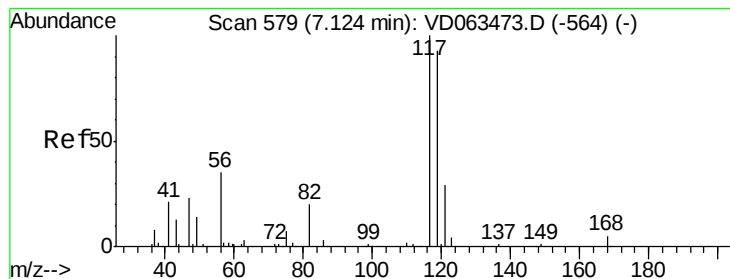
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.1	124.7
192	16.6	13.1	19.7



#36
 1,1-Dichloropropene
 Concen: 6.835 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD063751.D
 Acq: 22 Aug 2019 23:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.3	17.6	52.8#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 5.694 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

TS-1VS

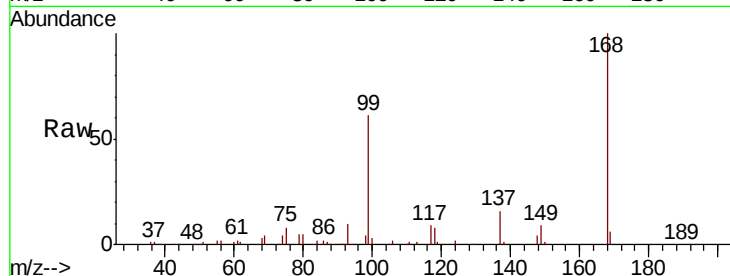
Tgt Ion:117 Resp: 73925

Ion Ratio Lower Upper

117 100

119 6.1 74.2 111.2#

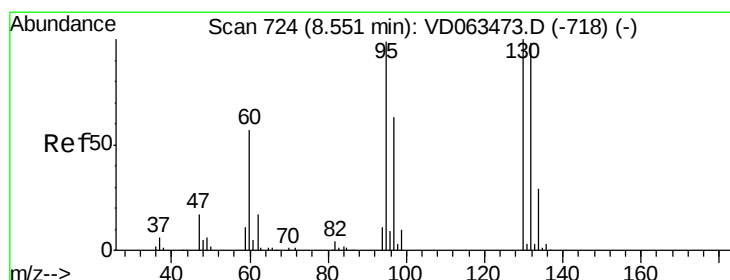
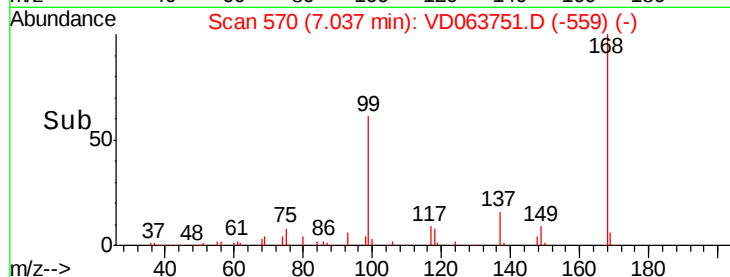
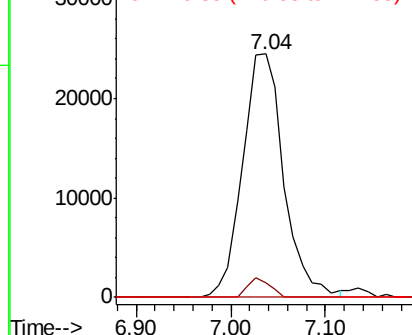
121 0.0 23.1 34.7#



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



#44

Trichloroethene

Concen: 9.579 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD063751.D

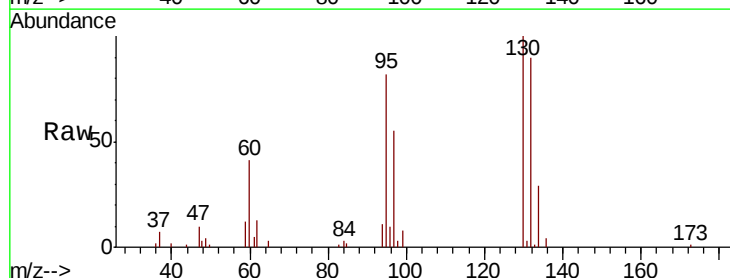
Acq: 22 Aug 2019 23:26

Tgt Ion:130 Resp: 69410

Ion Ratio Lower Upper

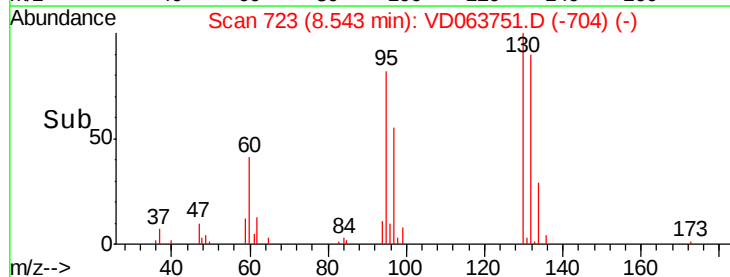
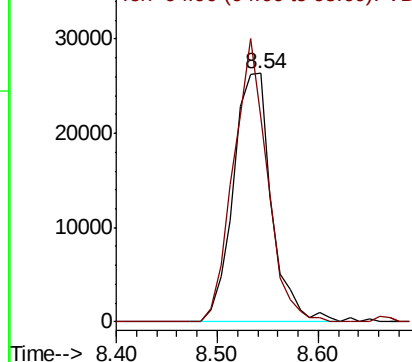
130 100

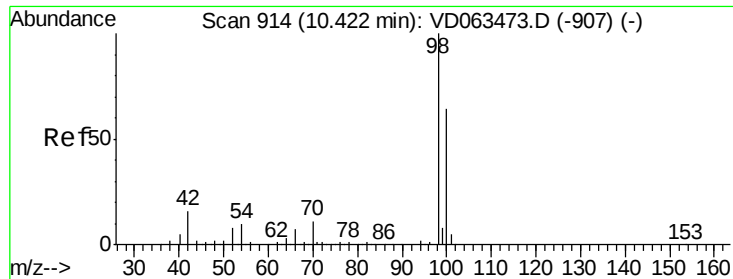
95 82.3 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

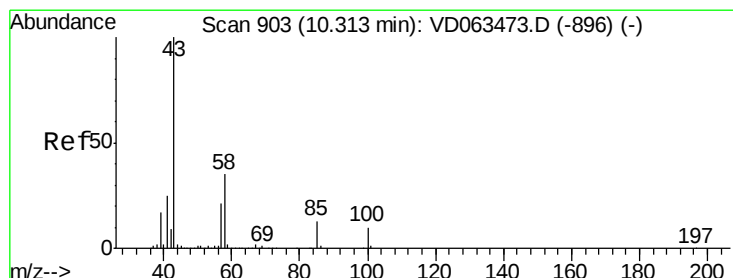
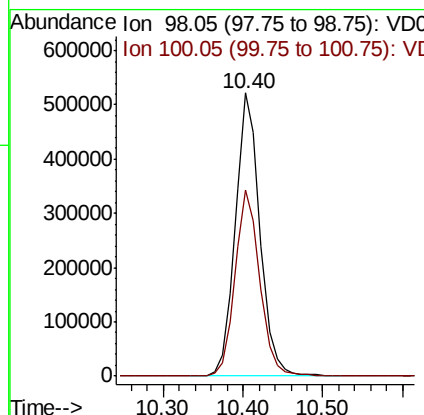
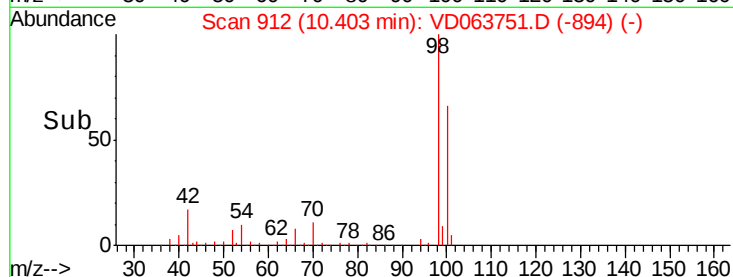
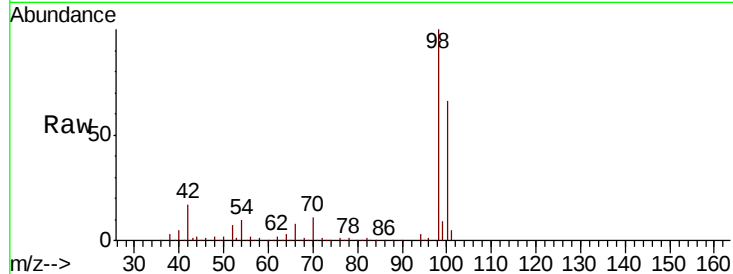




#50
Toluene-d8
Concen: 62.114 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

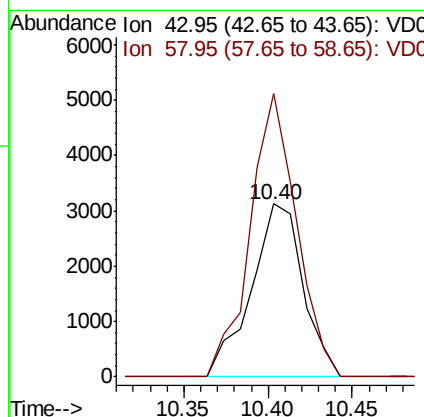
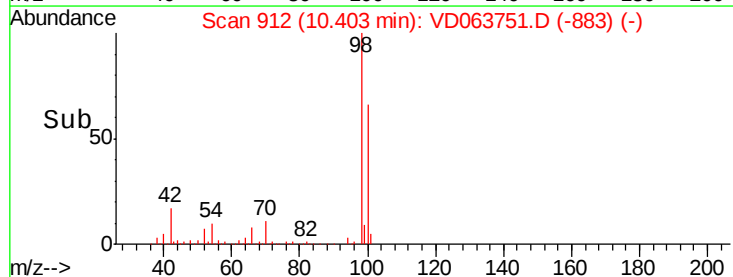
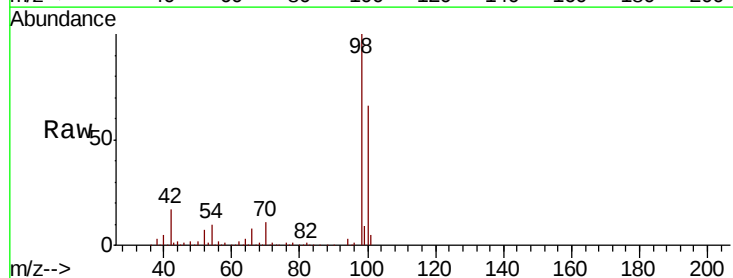
Instrument :
MSVOA_D
ClientSampleId :
TS-1VS

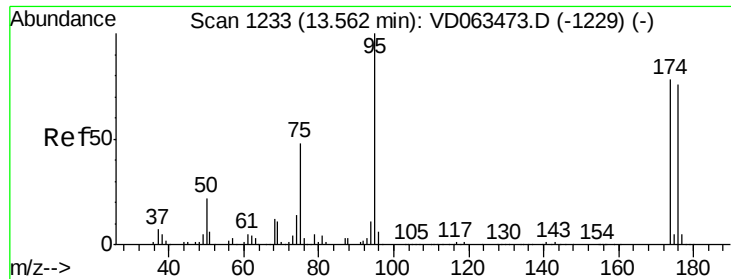
Tgt Ion: 98 Resp: 1120725
Ion Ratio Lower Upper
98 100
100 65.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 2.018 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.09 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

Tgt Ion: 43 Resp: 6677
Ion Ratio Lower Upper
43 100
58 163.7 28.0 42.0#

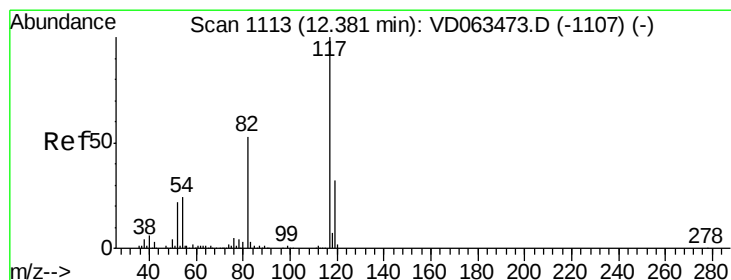
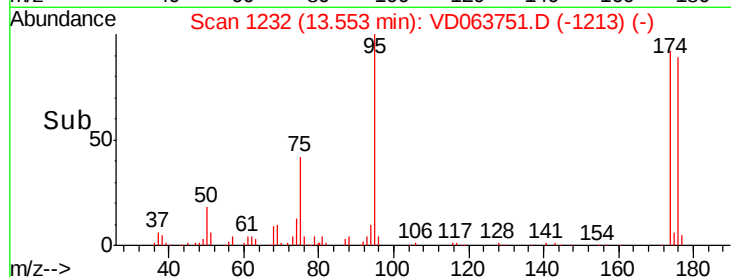
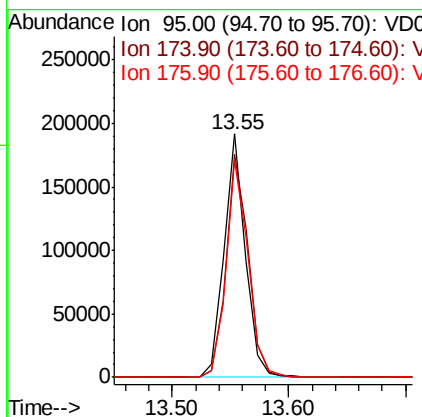
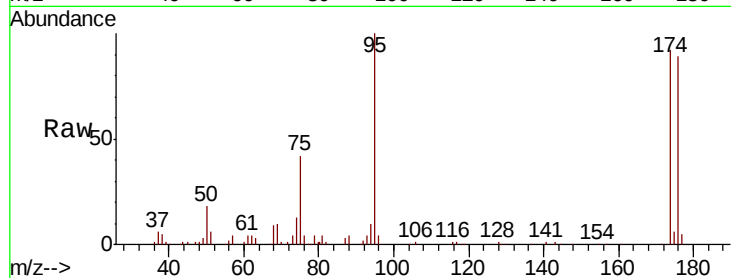




#62
4-Bromofluorobenzene
Concen: 29.587 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

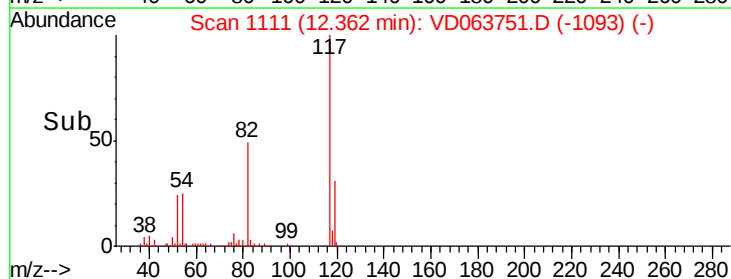
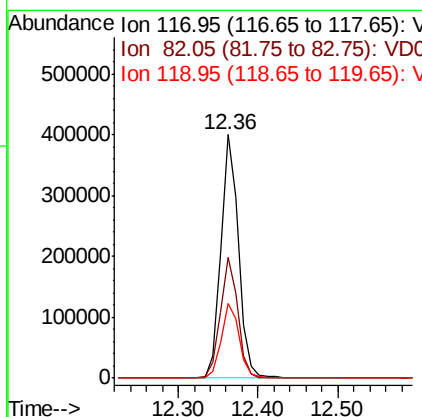
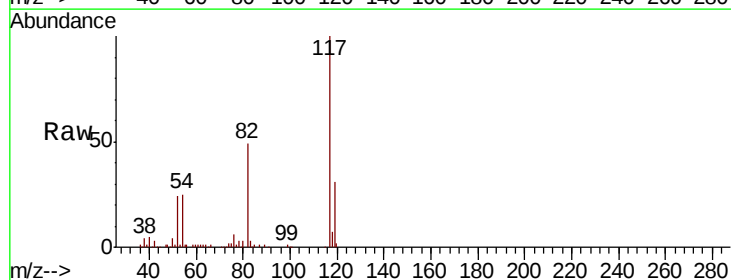
Instrument :
MSVOA_D
ClientSampleId :
TS-1VS

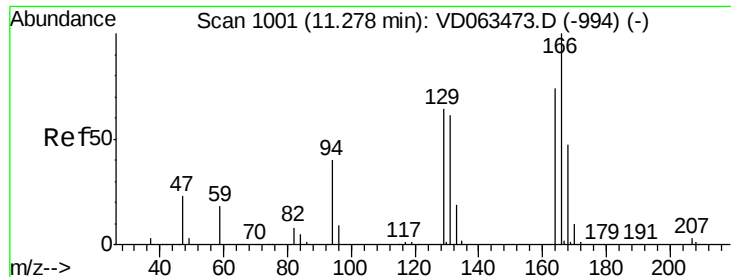
Tgt Ion: 95 Resp: 241959
Ion Ratio Lower Upper
95 100
174 91.8 0.0 155.4
176 89.2 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

Tgt Ion: 117 Resp: 626390
Ion Ratio Lower Upper
117 100
82 49.5 42.0 63.0
119 30.7 25.4 38.0

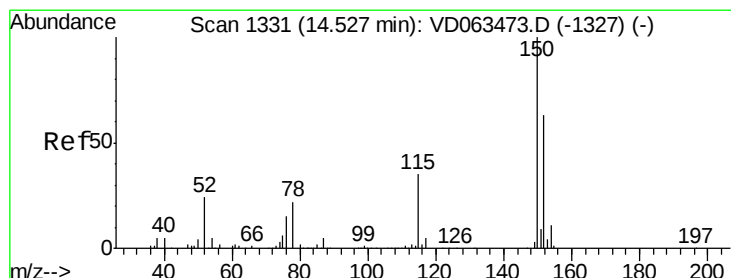
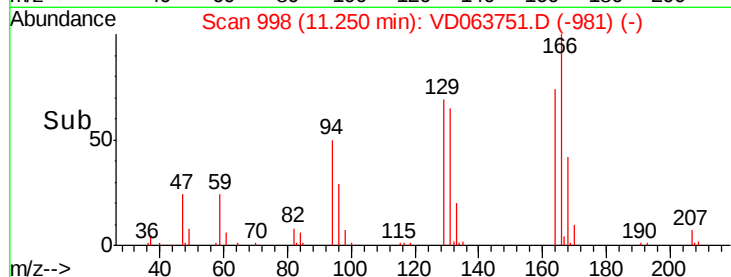
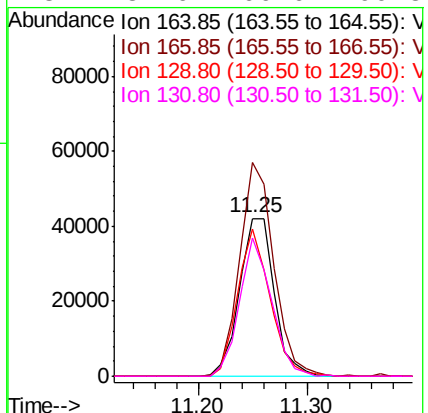
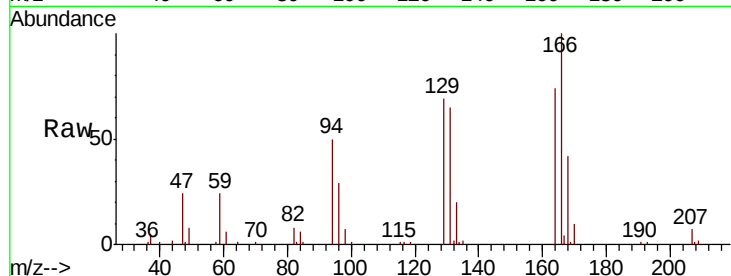




#64
Tetrachloroethene
Concen: 19.538 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.03 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

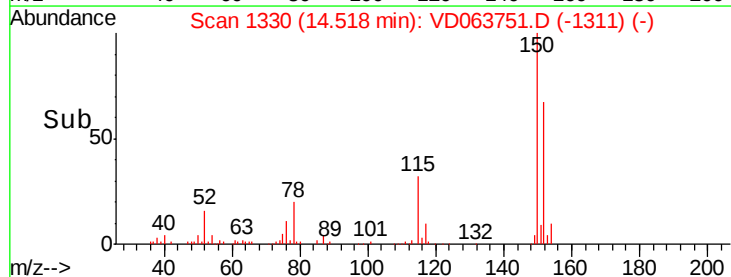
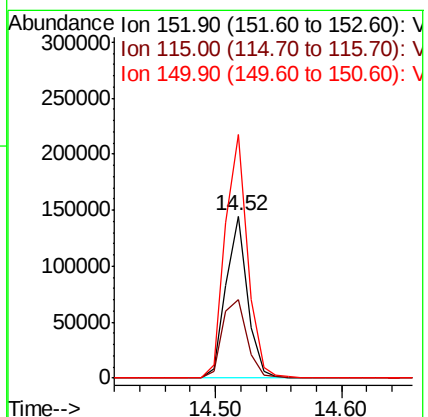
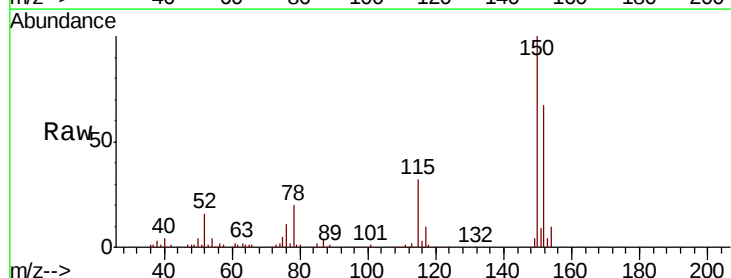
Instrument :
MSVOA_D
ClientSampleId :
TS-1VS

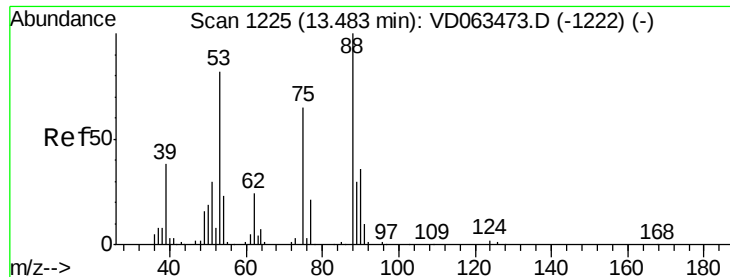
Tgt Ion:164 Resp: 94477
Ion Ratio Lower Upper
164 100
166 135.5 108.6 163.0
129 93.2 69.0 103.6
131 87.6 66.6 99.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063751.D
Acq: 22 Aug 2019 23:26

Tgt Ion:152 Resp: 172041
Ion Ratio Lower Upper
152 100
115 48.2 30.9 92.7
150 150.0 0.0 318.6





#81

trans-1,4-Dichloro-2-butene

Concen: 194.734 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063751.D

Acq: 22 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

TS-1VS

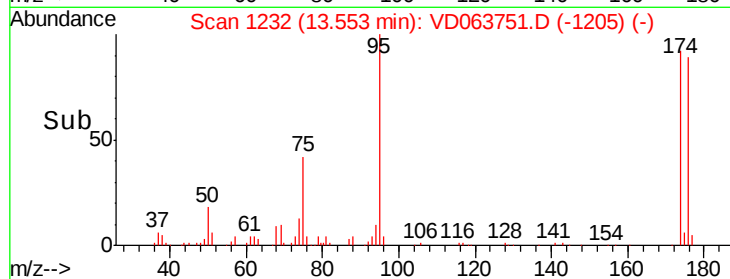
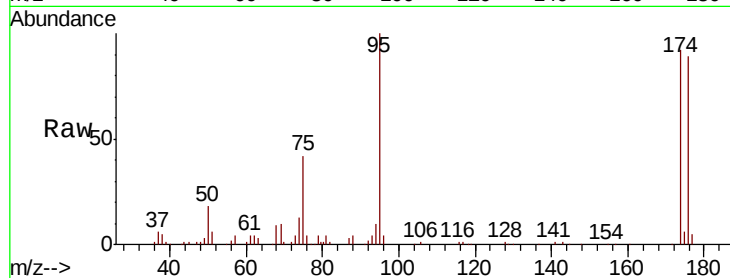
Tgt Ion: 75 Resp: 103342

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

