

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082820\
 Data File : VD066469.D
 Acq On : 28 Aug 2020 19:31
 Operator : VA/SY
 Sample : L3828-03
 Misc : 4.89G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BS-2

Quant Time: Aug 29 00:48:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082120S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 13:36:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	180192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	251204	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	229896	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	117967	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	98401	55.70	ug/l	0.00
Spiked Amount			Recovery	=	111.40%	
35) Dibromofluoromethane	7.91	113	78743	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
50) Toluene-d8	10.33	98	288528	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	12.63	95	105334	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	

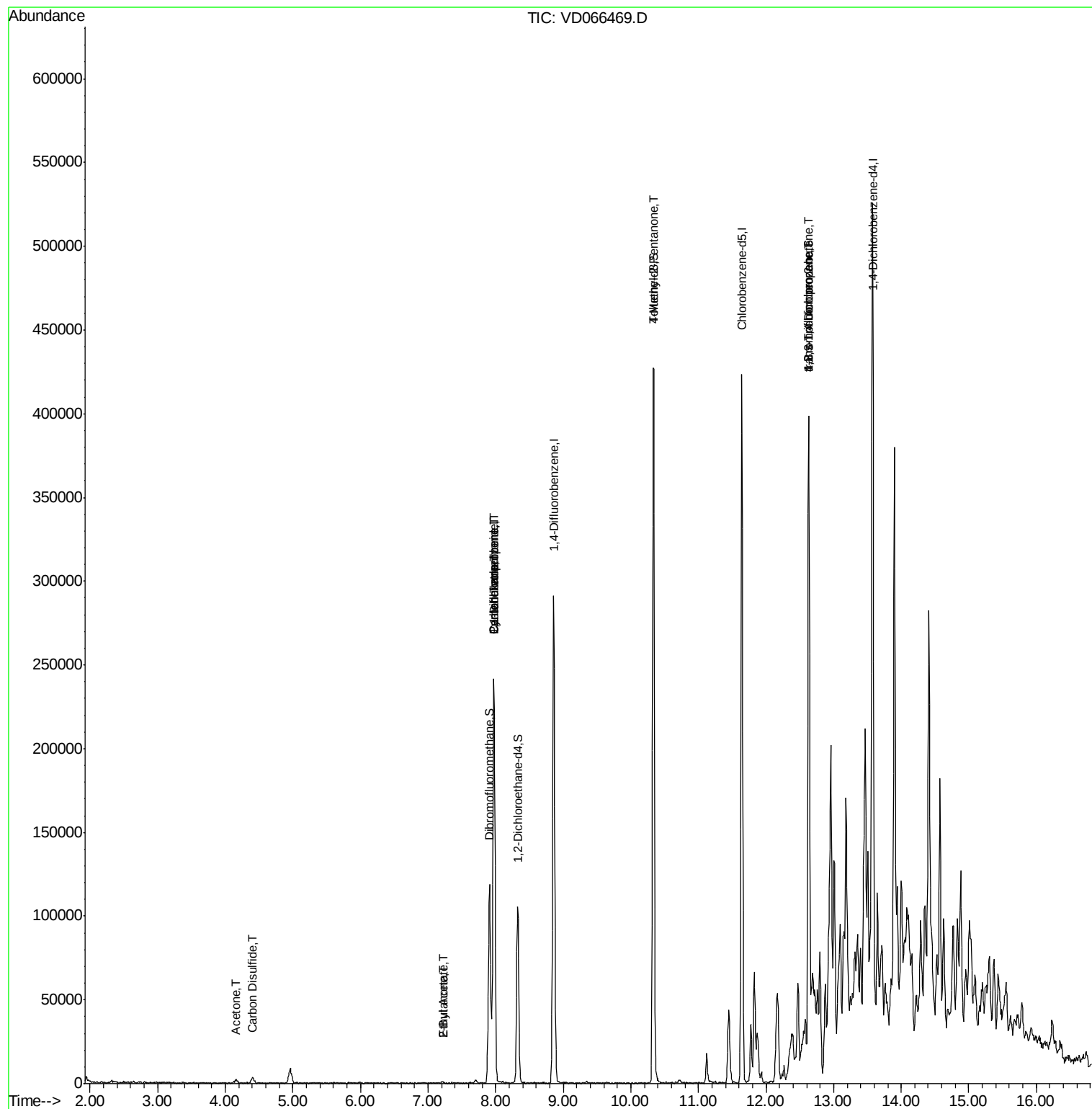
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	58	Below Cal	#	71
16) Acetone	4.16	43	4367	13.712	ug/l	99
17) Carbon Disulfide	4.41	76	6668	1.498	ug/l #	85
20) Methylene Chloride	4.96	84	6762	Below Cal	#	81
25) 2-Butanone	7.21	43	940	2.600	ug/l #	47
31) Cyclohexane	7.97	56	3959	1.614	ug/l #	25
36) 1,1-Dichloropropene	7.97	75	12590	5.493	ug/l #	51
37) Ethyl Acetate	7.21	43	940	1.206	ug/l #	67
38) Carbon Tetrachloride	7.97	117	18856	6.314	ug/l #	16
51) 4-Methyl-2-Pentanone	10.33	43	1479	1.954	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	64611	77.854	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.63	75	64611	165.258	ug/l #	7

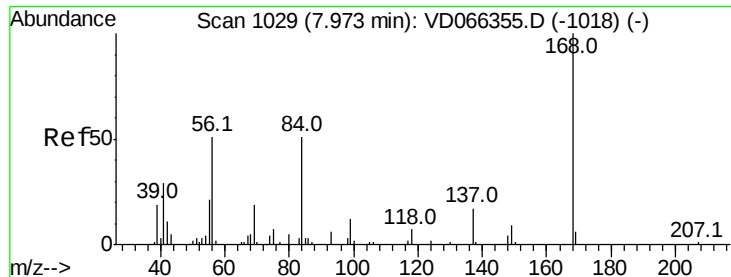
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampleId :

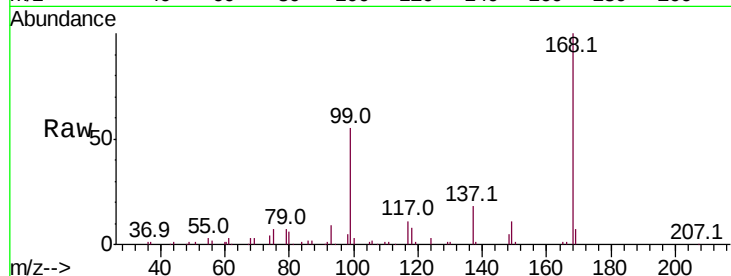
BS-2

Tot Ion:168 Resp: 180192

Ion Ratio Lower Upper

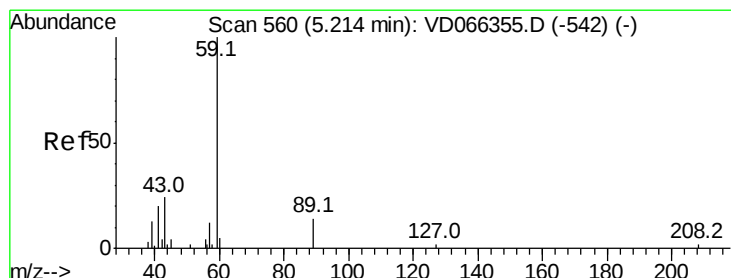
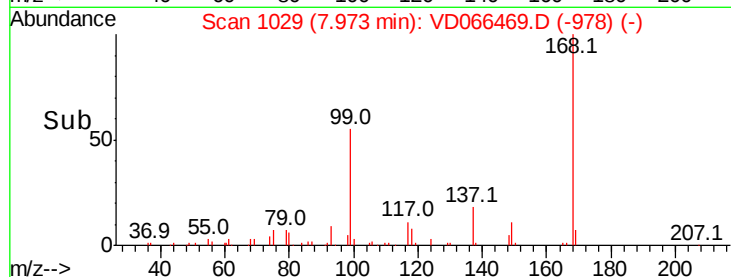
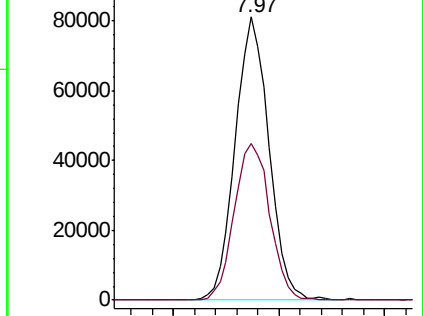
168 100

99 55.3 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.24 min Scan# 564

Delta R.T. 0.02 min

Lab File: VD066469.D

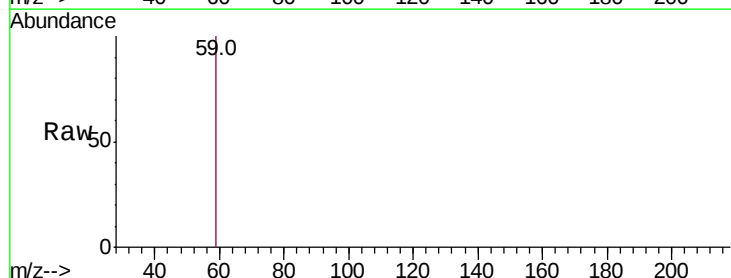
Acq: 28 Aug 2020 19:31

Tgt Ion: 59 Resp: 58

Ion Ratio Lower Upper

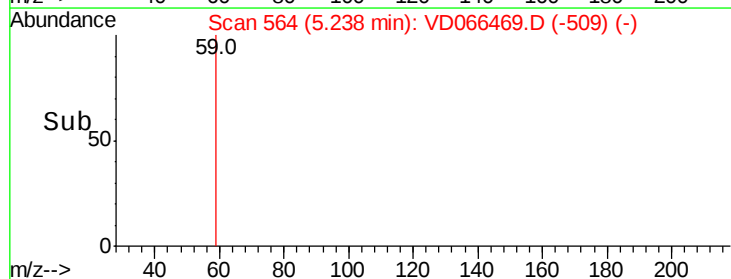
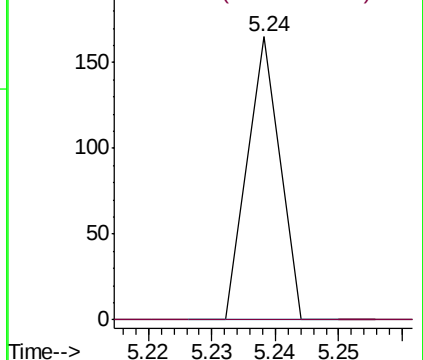
59 100

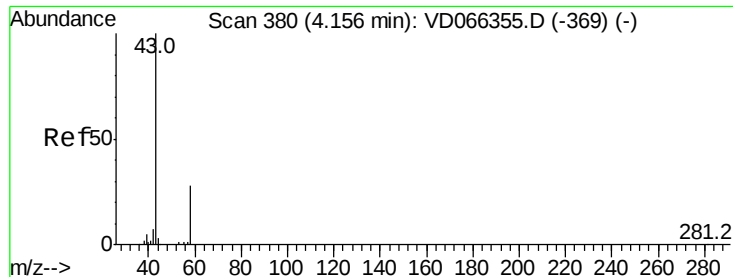
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 13.712 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampleId :

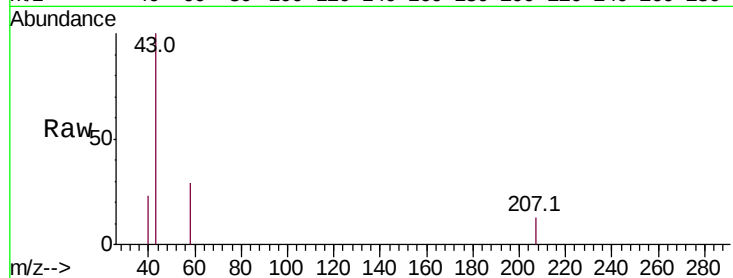
BS-2

Tot Ion: 43 Resp: 4367

Ion Ratio Lower Upper

43 100

58 29.0 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

2000

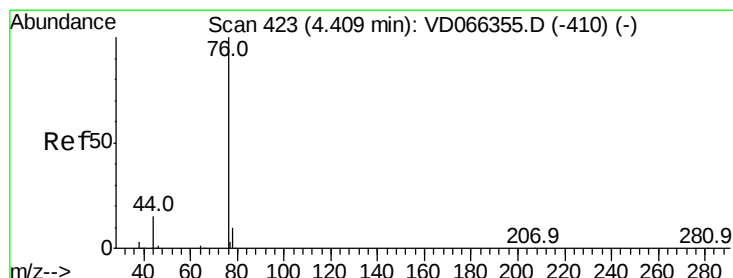
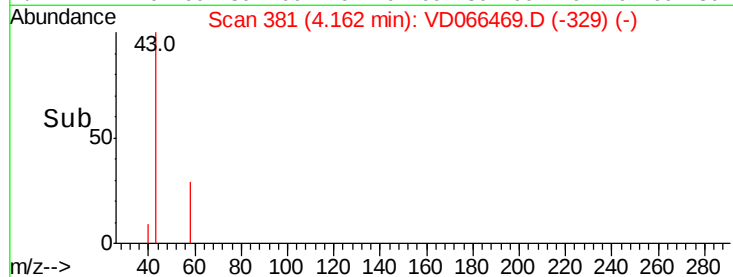
1500

1000

500

0

Time--> 4.10 4.15 4.20 4.25



#17

Carbon Disulfide

Concen: 1.498 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD066469.D

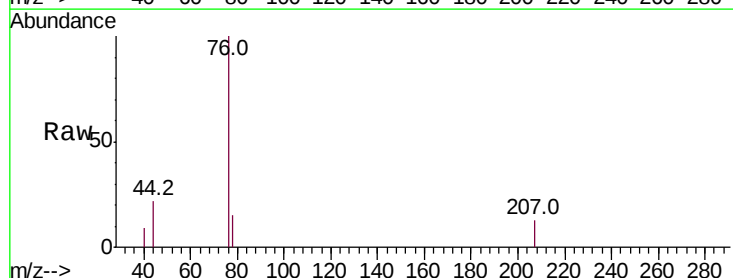
Acq: 28 Aug 2020 19:31

Tgt Ion: 76 Resp: 6668

Ion Ratio Lower Upper

76 100

78 15.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

2500

2000

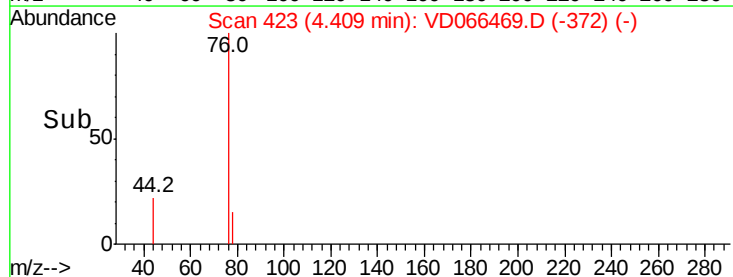
1500

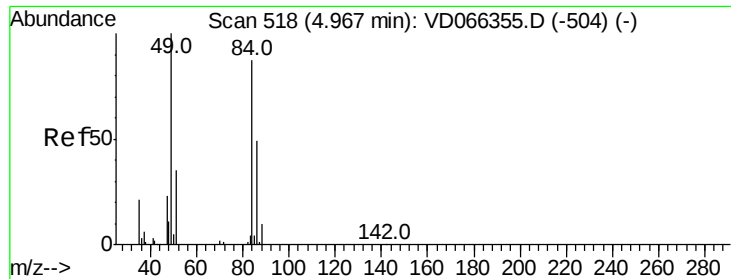
1000

500

0

Time--> 4.30 4.35 4.40 4.45





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampled :

BS-2

Tot Ion: 84 Resp: 6762

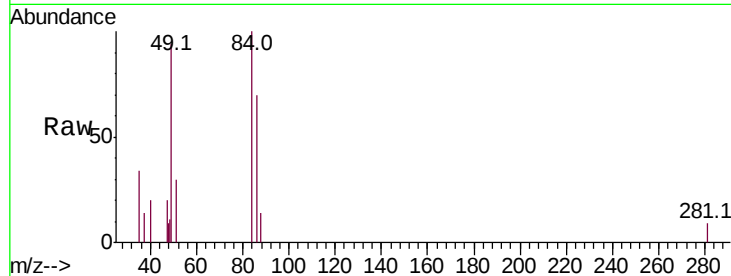
Ion Ratio Lower Upper

84 100

49 94.1 92.5 138.7

51 29.9 32.5 48.7#

86 69.7 45.0 67.6#

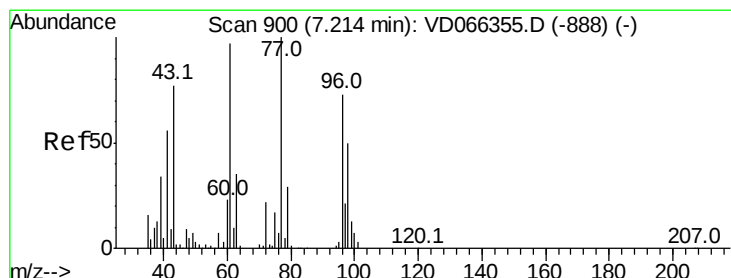
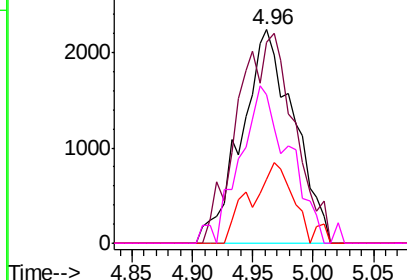
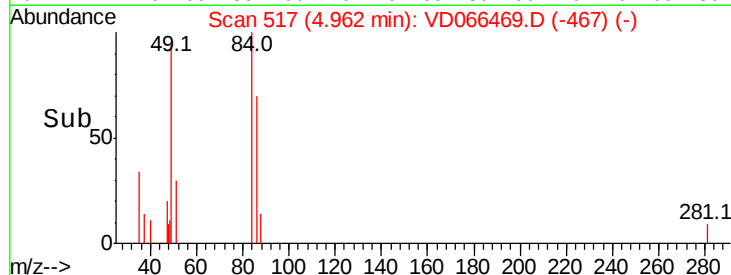


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#25

2-Butanone

Concen: 2.600 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD066469.D

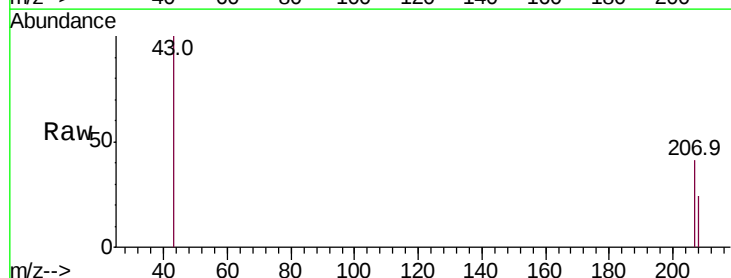
Acq: 28 Aug 2020 19:31

Tgt Ion: 43 Resp: 940

Ion Ratio Lower Upper

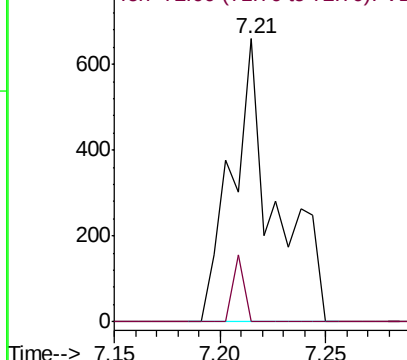
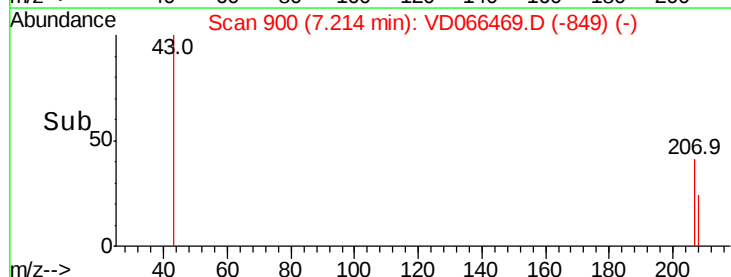
43 100

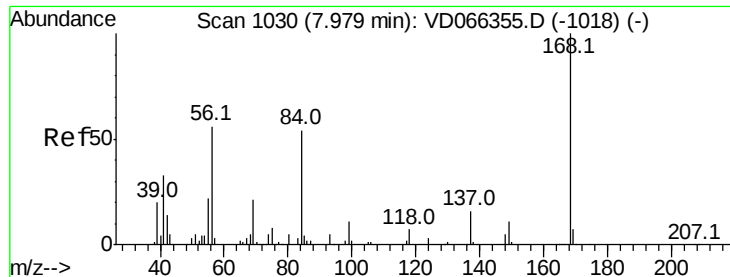
72 0.0 22.5 33.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

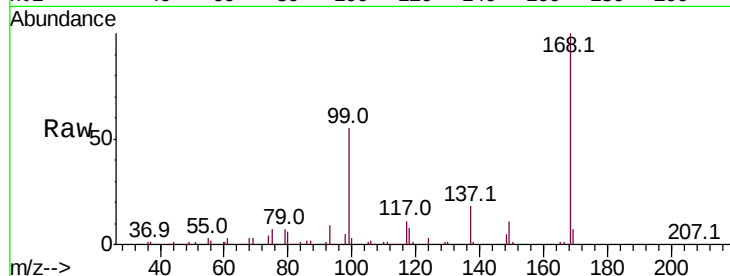




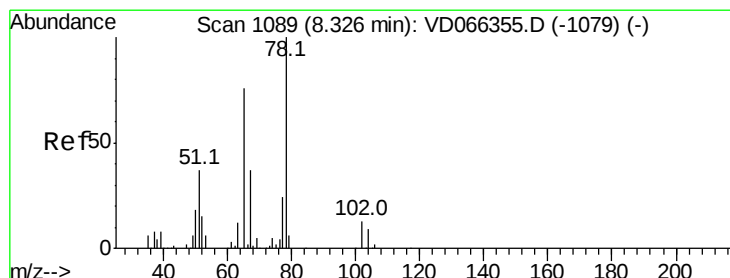
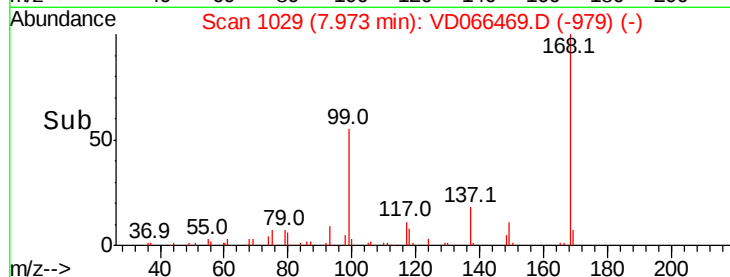
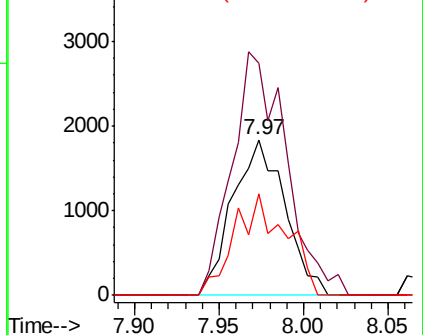
#31
Cyclohexane
Concen: 1.614 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066469.D
Acq: 28 Aug 2020 19:31

Instrument :
MSVOA_D
ClientSampleId :
BS-2

Tot Ion: 56 Resp: 3959
Ion Ratio Lower Upper
56 100
69 149.3 29.6 44.4#
84 65.5 76.6 115.0#

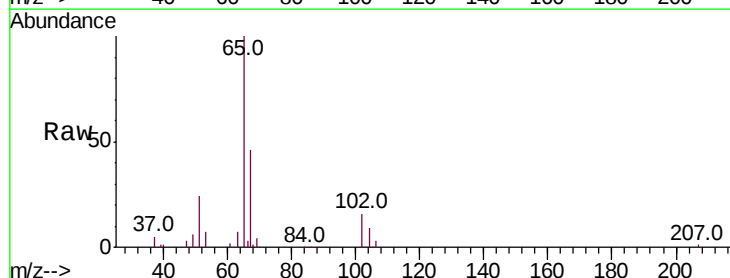


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

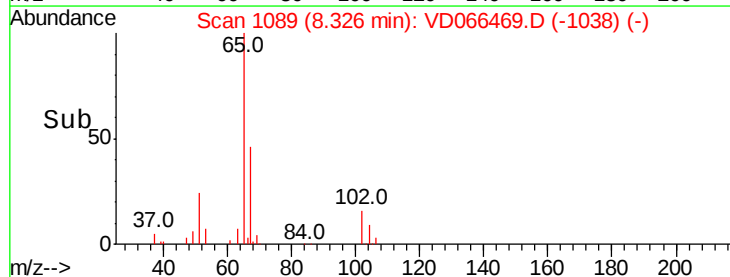
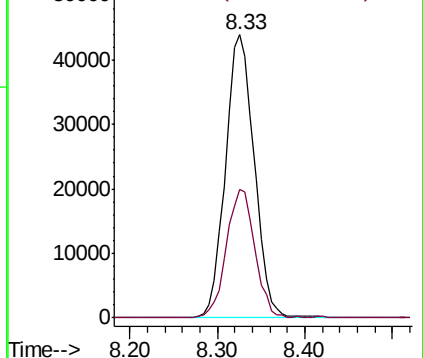


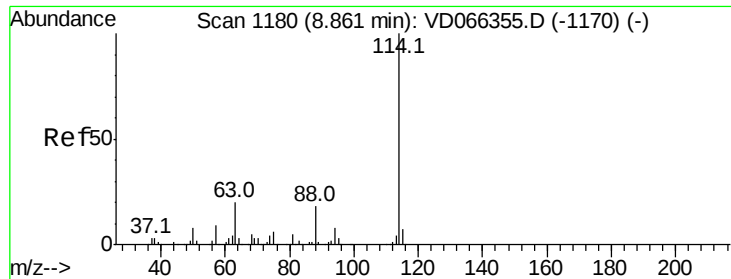
#33
1,2-Dichloroethane-d4
Concen: 55.701 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VD066469.D
Acq: 28 Aug 2020 19:31

Tgt Ion: 65 Resp: 98401
Ion Ratio Lower Upper
65 100
67 44.8 0.0 101.6



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: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampleId :

BS-2

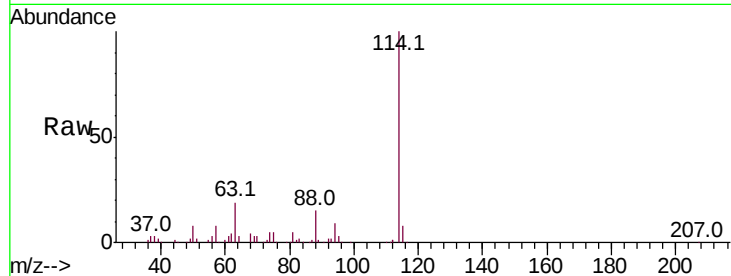
Tot Ion:114 Resp: 251204

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.8

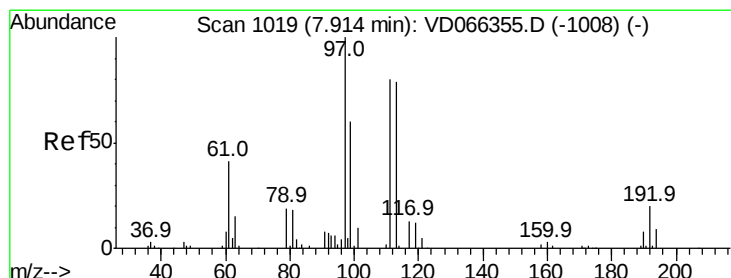
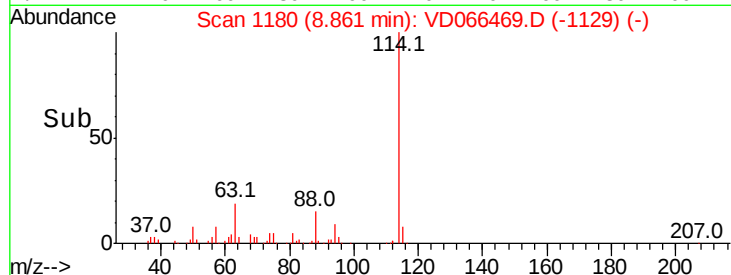
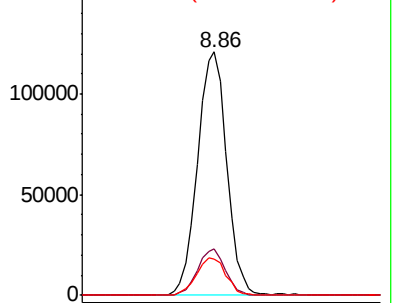
88 15.1 0.0 35.4



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: 50.129 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

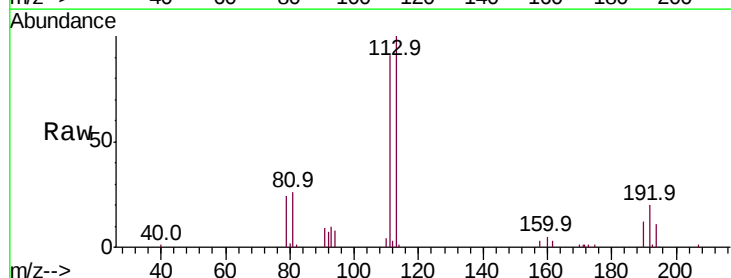
Tgt Ion:113 Resp: 78743

Ion Ratio Lower Upper

113 100

111 99.1 80.3 120.5

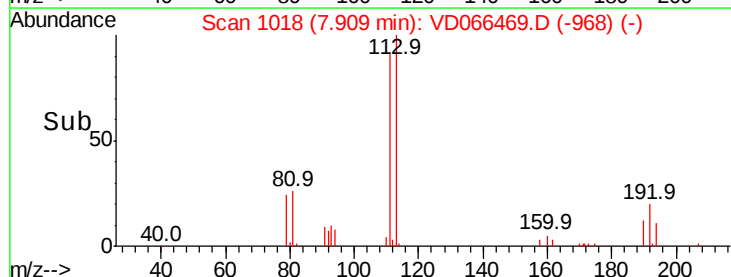
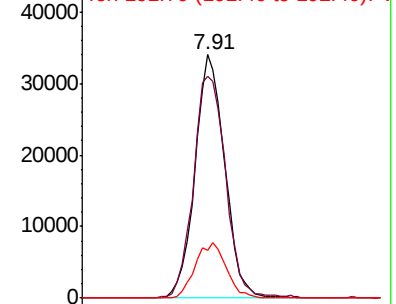
192 23.5 19.0 28.6

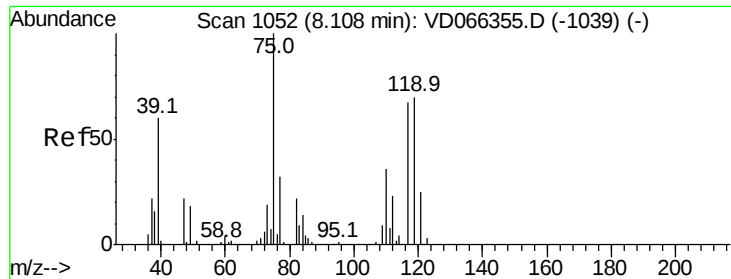


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.493 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

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ClientSampleId :

BS-2

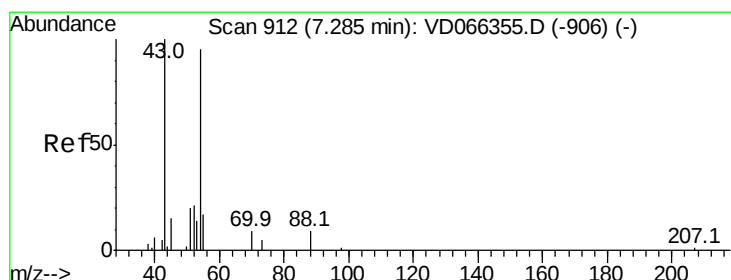
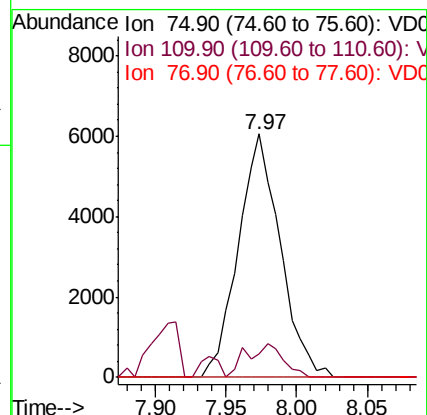
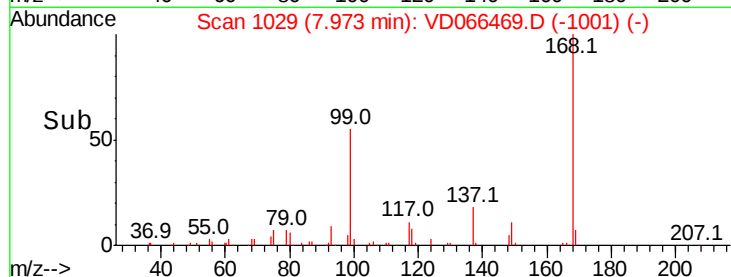
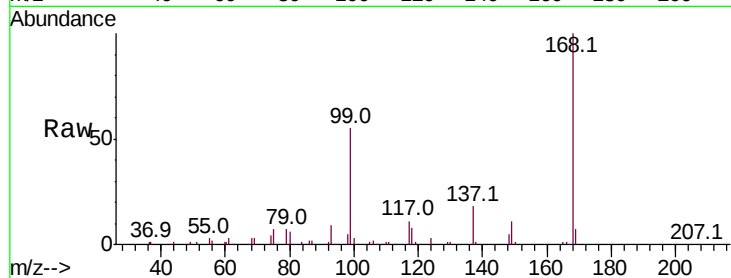
Tot Ion: 75 Resp: 12590

Ion Ratio Lower Upper

75 100

110 12.2 18.7 56.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 1.206 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.07 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

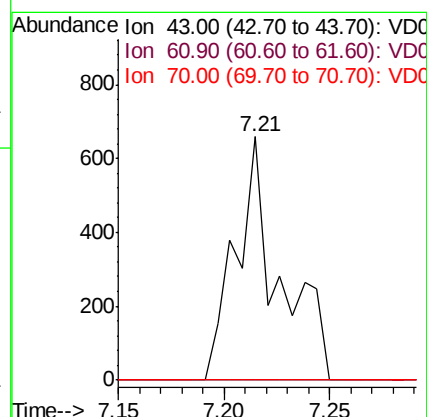
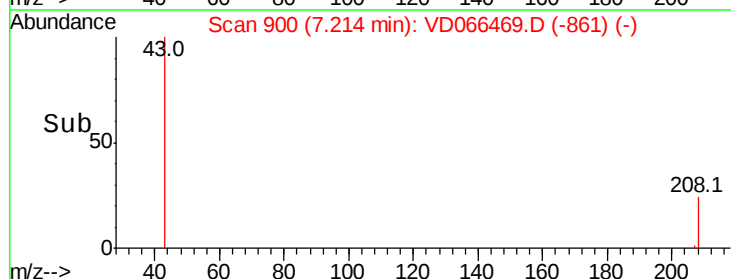
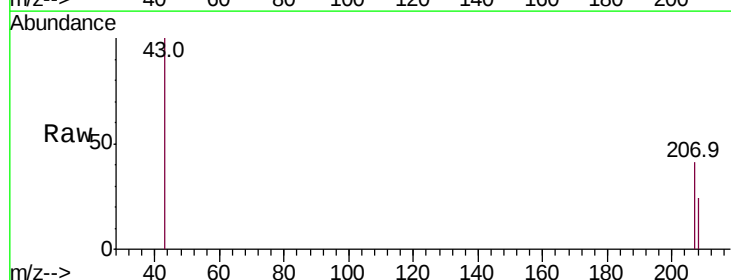
Tgt Ion: 43 Resp: 940

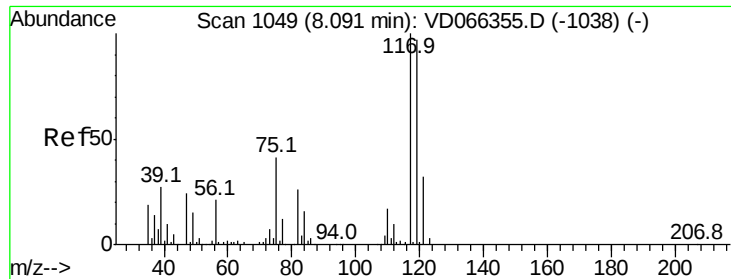
Ion Ratio Lower Upper

43 100

61 0.0 13.3 19.9#

70 0.0 3.5 5.3#





#38

Carbon Tetrachloride

Concen: 6.314 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampleId :

BS-2

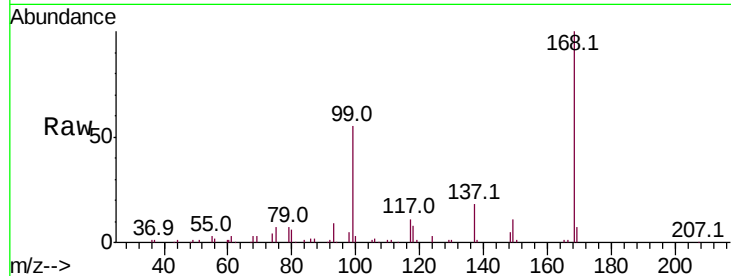
Tot Ion:117 Resp: 18856

Ion Ratio Lower Upper

117 100

119 6.0 77.2 115.8#

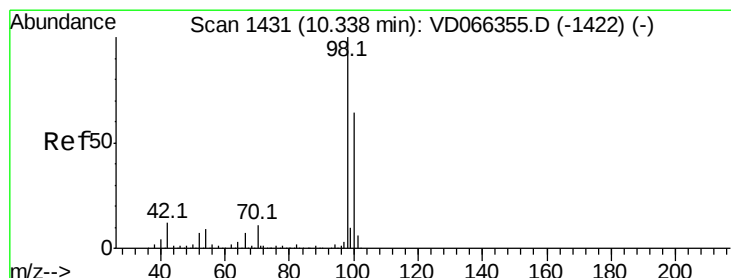
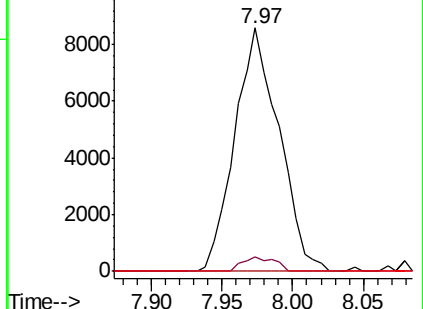
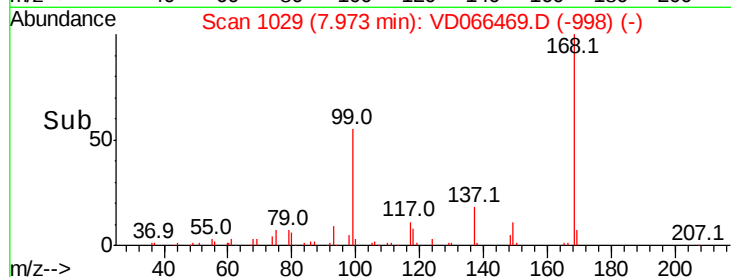
121 0.0 25.8 38.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.202 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VD066469.D

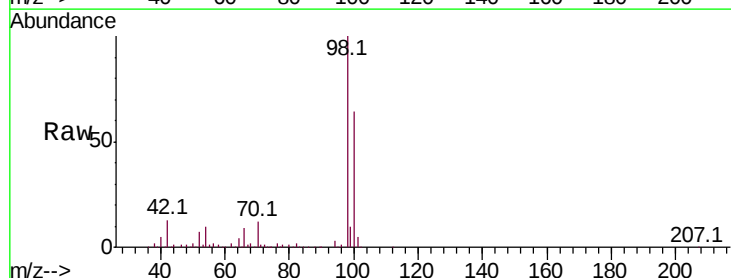
Acq: 28 Aug 2020 19:31

Tgt Ion: 98 Resp: 288528

Ion Ratio Lower Upper

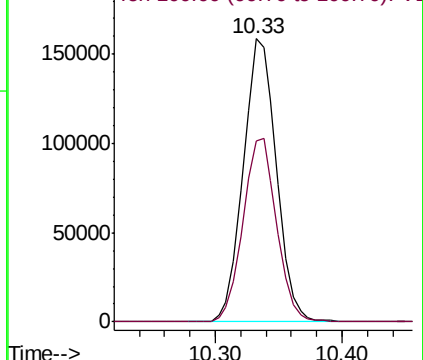
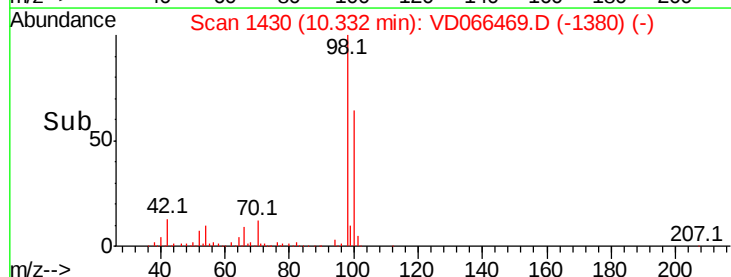
98 100

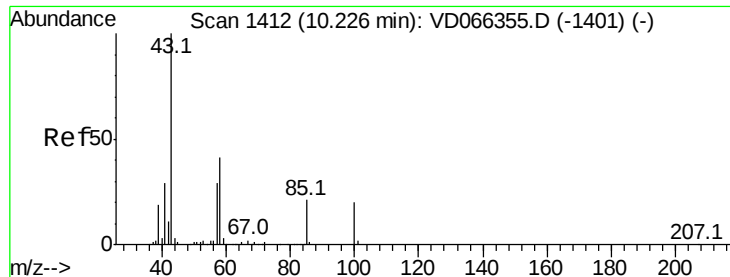
100 65.7 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.954 ug/l

RT: 10.33 min Scan# 1429

Delta R.T. 0.10 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampleId :

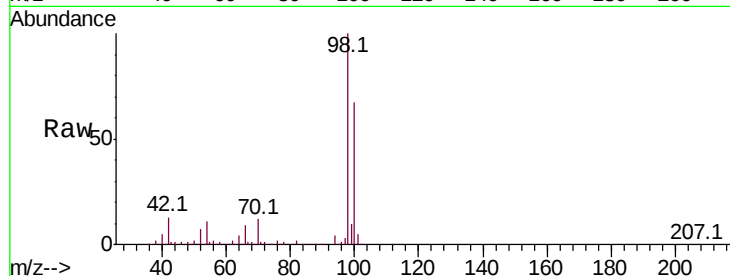
BS-2

Tot Ion: 43 Resp: 1479

Ion Ratio Lower Upper

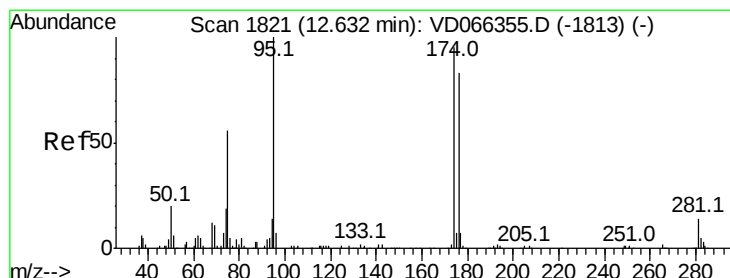
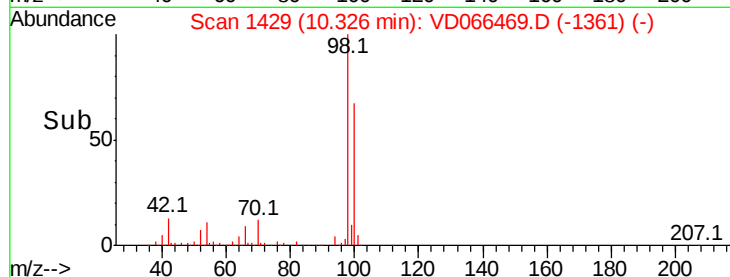
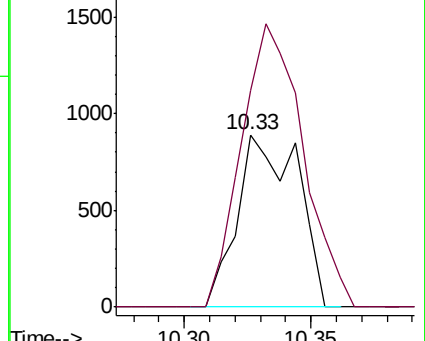
43 100

58 168.2 31.4 47.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 51.649 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

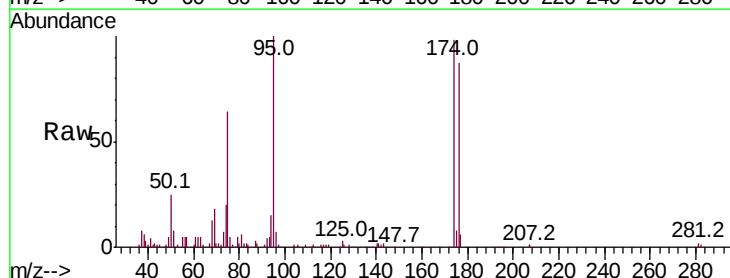
Tgt Ion: 95 Resp: 105334

Ion Ratio Lower Upper

95 100

174 96.3 0.0 183.4

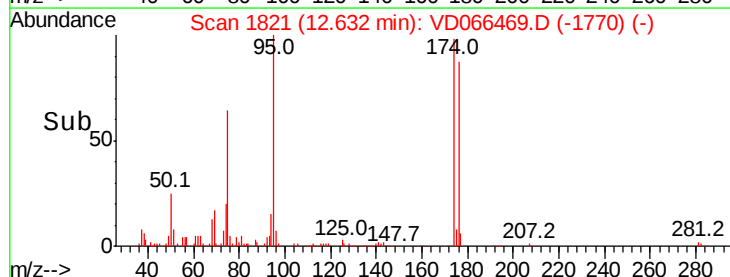
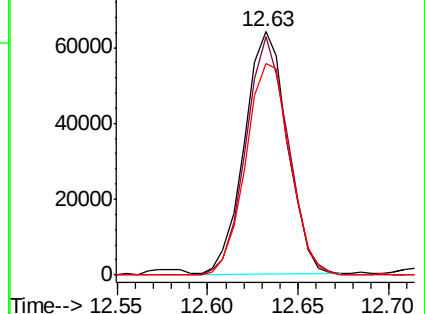
176 89.9 0.0 173.8

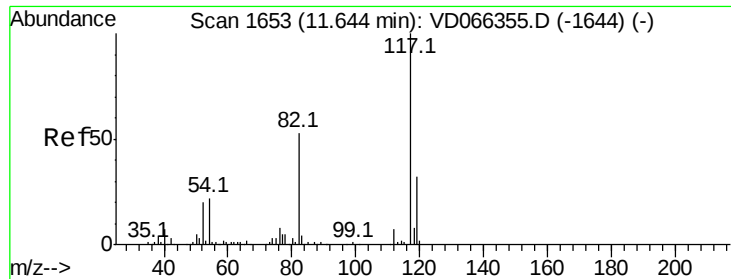


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

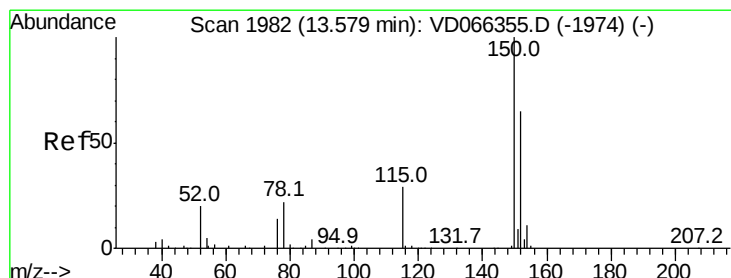
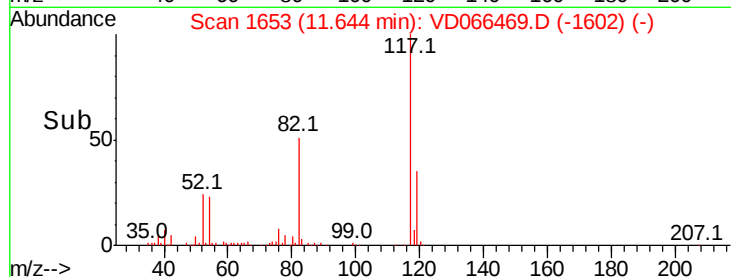
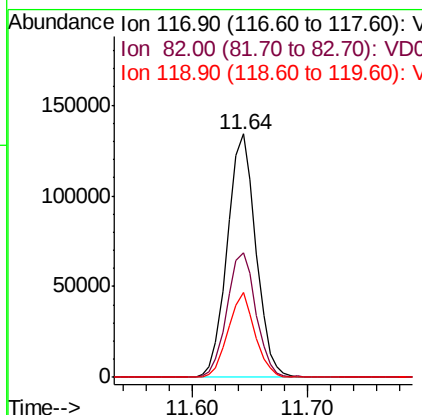
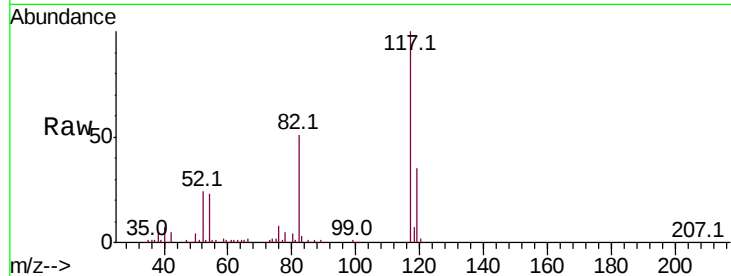




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066469.D
Acq: 28 Aug 2020 19:31

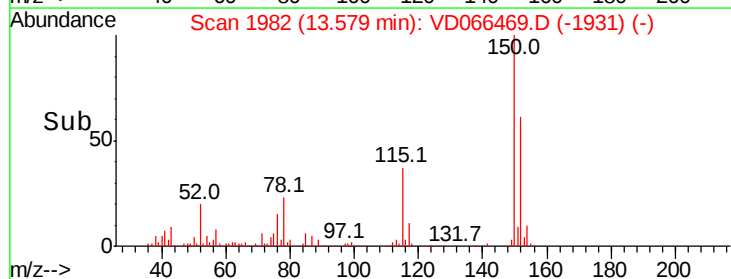
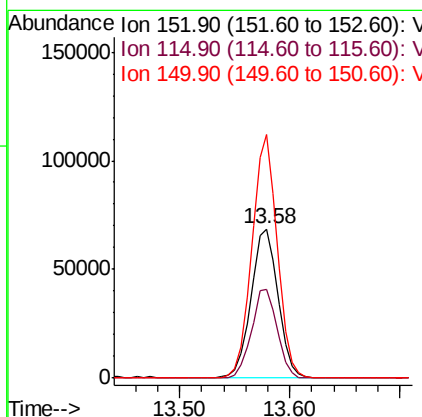
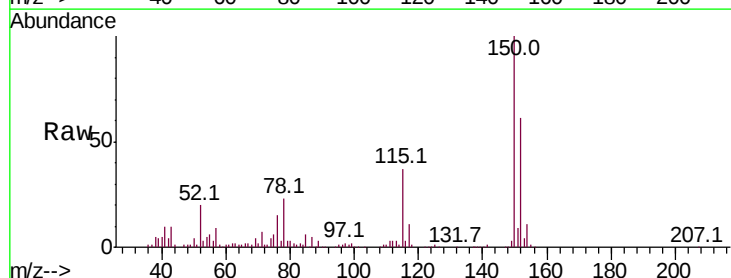
Instrument :
MSVOA_D
ClientSampleId :
BS-2

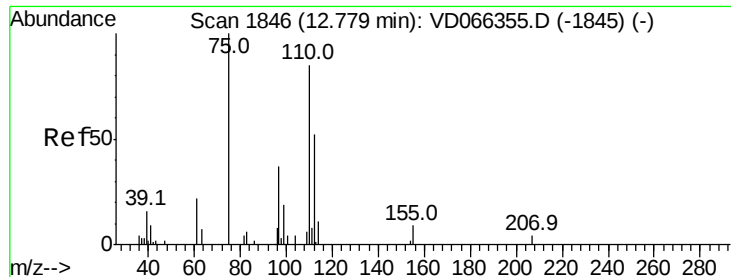
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	42.8	64.2
119	34.9	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066469.D
Acq: 28 Aug 2020 19:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.3	85.0
150	152.2	0.0	343.2





#76

1,2,3-Trichloropropane

Concen: 77.854 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

Instrument :

MSVOA_D

ClientSampleId :

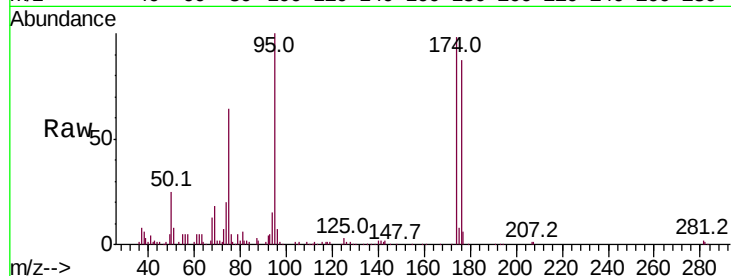
BS-2

Tot Ion: 75 Resp: 64611

Ion Ratio Lower Upper

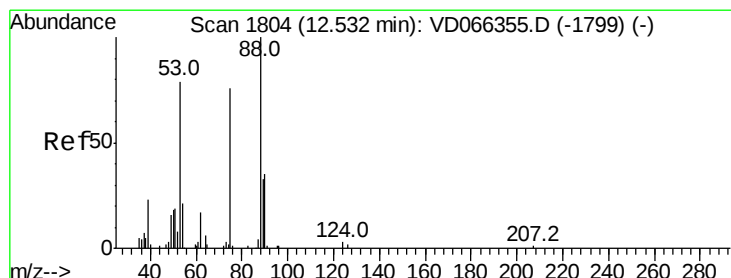
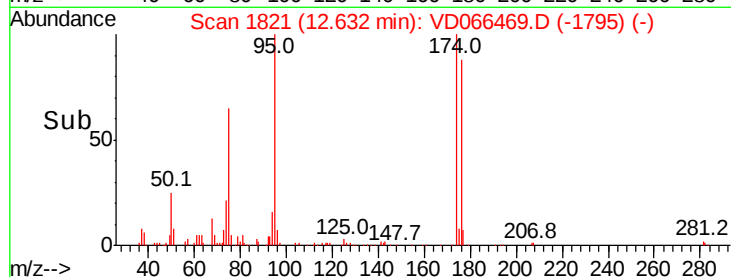
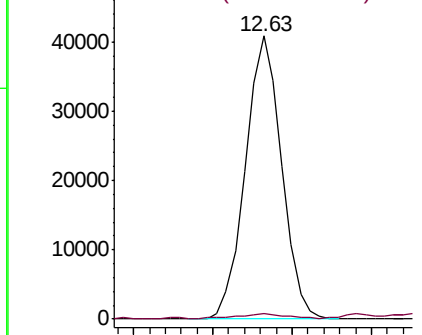
75 100

77 2.6 182.9 548.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 165.258 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066469.D

Acq: 28 Aug 2020 19:31

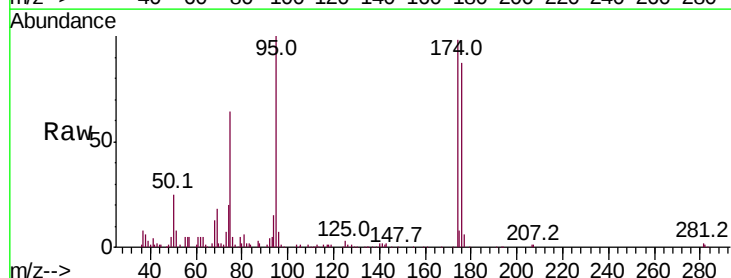
Tgt Ion: 75 Resp: 64611

Ion Ratio Lower Upper

75 100

53 0.8 87.4 131.2#

89 0.1 39.4 59.0#



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

