

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120221\
 Data File : VD071121.D
 Acq On : 02 Dec 2021 16:41
 Operator : VA/SY
 Sample : M4876-01RE
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 03 00:39:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : Sw846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

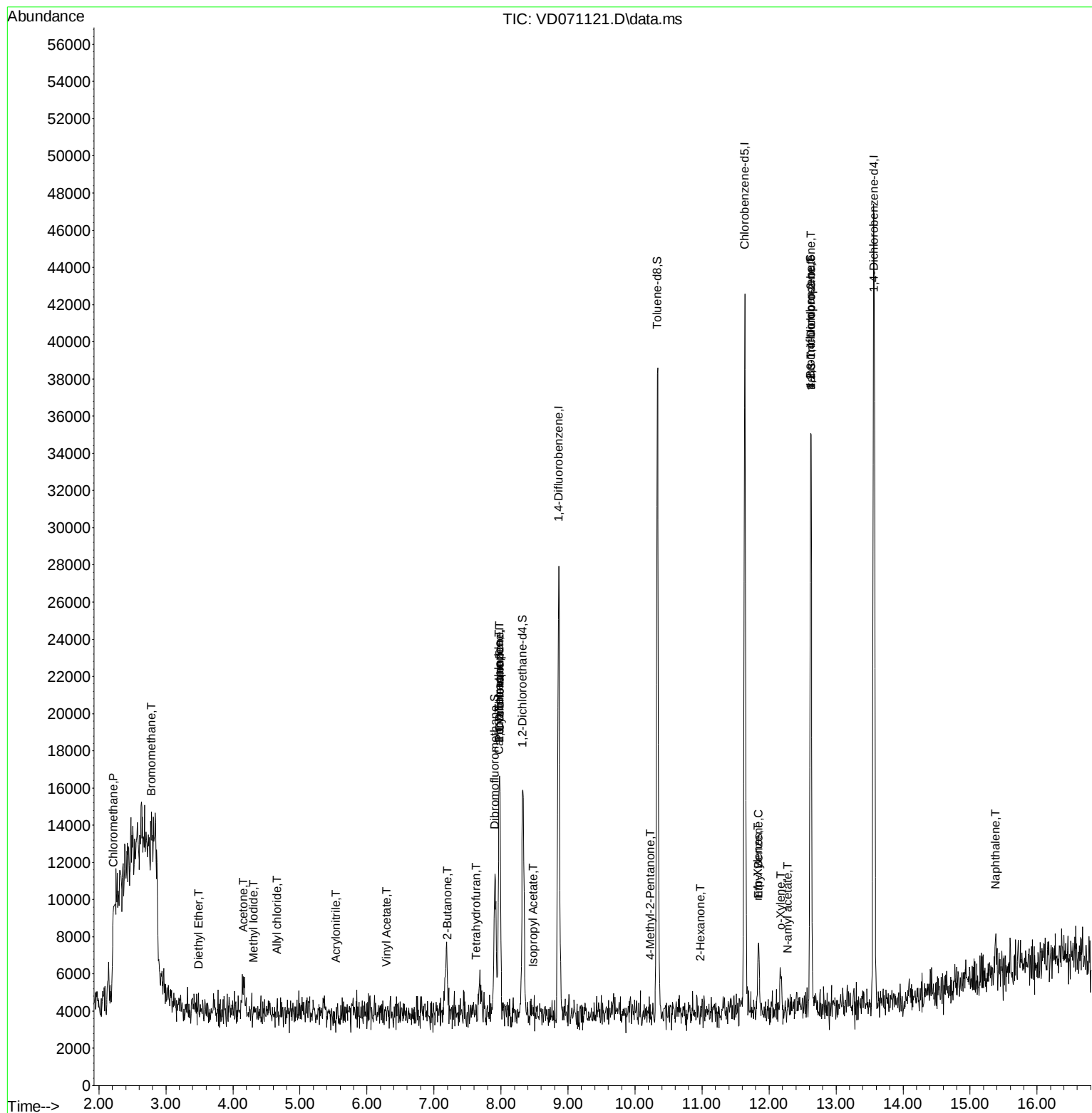
Internal Standards						
1) Pentafluorobenzene	7.973	168	9493	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	18354	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	20658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	10791	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	9305	83.54	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	= 167.08%#		
35) Dibromofluoromethane	7.908	113	4937	42.24	ug/l	-0.01
Spiked Amount 50.000	Range 54	- 147	Recovery	= 84.48%		
50) Toluene-d8	10.332	98	23465	52.76	ug/l	0.00
Spiked Amount 50.000	Range 49	- 140	Recovery	= 105.52%		
62) 4-Bromofluorobenzene	12.620	95	9919	64.34	ug/l	0.00
Spiked Amount 50.000	Range 25	- 144	Recovery	= 128.68%		
Target Compounds						
						Qvalue
3) Chloromethane	2.215	50	598	5.58	ug/l #	42
5) Bromomethane	2.779	94	613	7.12	ug/l #	45
8) Diethyl Ether	3.491	74	57	1.30	ug/l #	1
10) Methyl Iodide	4.309	142	160	5.87	ug/l #	40
11) Tert butyl alcohol	5.203	59	352	Below Cal	#	71
14) Allyl chloride	4.662	41	332	1.98	ug/l #	48
15) Acrylonitrile	5.538	53	56	2.62	ug/l #	4
16) Acetone	4.156	43	3310	128.92	ug/l	93
20) Methylene Chloride	4.956	84	266	Below Cal	#	27
23) Vinyl Acetate	6.297	43	64	27.53	ug/l #	72
25) 2-Butanone	7.203	43	472	40.61	ug/l #	45
29) Tetrahydrofuran	7.626	42	66	3.73	ug/l #	34
31) Cyclohexane	7.979	56	279	1.47	ug/l #	28
36) 1,1-Dichloropropene	7.973	75	934	5.44	ug/l #	41
38) Carbon Tetrachloride	7.967	117	1023	6.05	ug/l #	12
41) Methacrylonitrile	7.538	41	120	Below Cal	#	34
43) Isopropyl Acetate	8.479	43	88	5.71	ug/l #	47
51) 4-Methyl-2-Pentanone	10.226	43	60	31.28	ug/l #	34
59) 2-Hexanone	10.979	43	124	36.27	ug/l #	22
67) Ethyl Benzene	11.844	91	2147	2.98	ug/l	98
68) m/p-Xylenes	11.838	106	999	3.67	ug/l	90
69) o-Xylene	12.173	106	799	3.12	ug/l	76
74) N-amyl acetate	12.279	43	79	6.03	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	5748	55.91	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	5748	121.44	ug/l #	19
95) Naphthalene	15.385	128	1658	5.26	ug/l #	74

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
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Abundance Scan 1031 (7.985 min): VD071075.D\data.ms (-1019) (-)

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.973 min Scan#

Delta R.T. -0.012 min

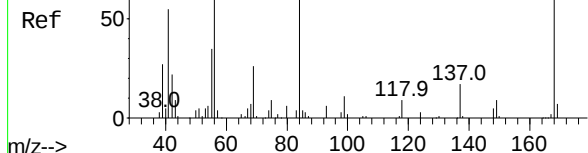
Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :

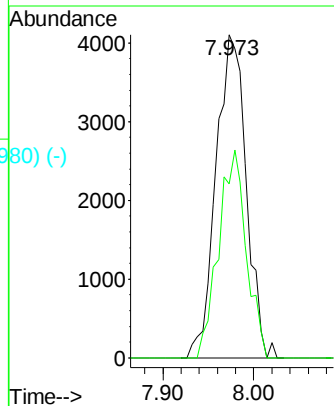
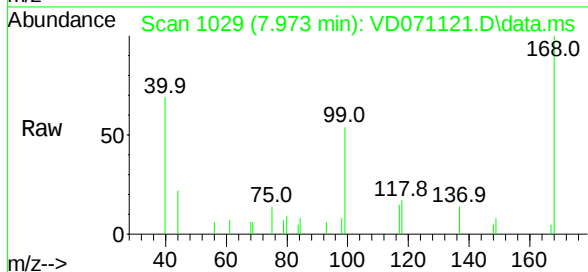


Tgt Ion:168 Resp: 9493

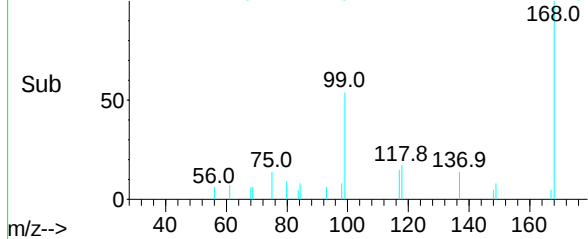
Ion Ratio Lower Upper

168 100

99 53.9 46.6 69.8



Abundance Scan 1029 (7.973 min): VD071121.D\data.ms (-980) (-)



Abundance Scan 50 (2.215 min): VD071075.D\data.ms (-43) (-)

Chloromethane

Concen: 5.58 ug/l

RT: 2.215 min Scan# 50

Delta R.T. -0.000 min

Lab File: VD071121.D

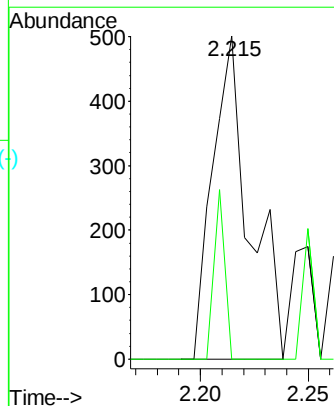
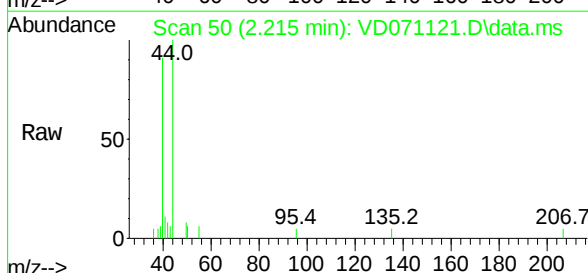
Acq: 02 Dec 2021 16:41

Tgt Ion: 50 Resp: 598

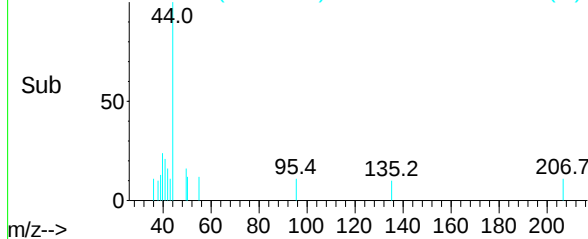
Ion Ratio Lower Upper

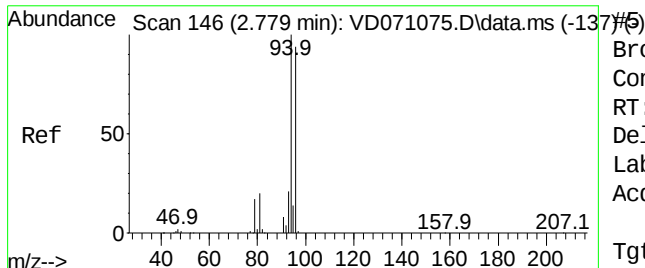
50 100

52 0.0 25.8 38.8#



Abundance Scan 50 (2.215 min): VD071121.D\data.ms (-1) (-)





Bromomethane

Concen: 7.12 ug/l

RT: 2.779 min Scan# 146

Delta R.T. 0.000 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

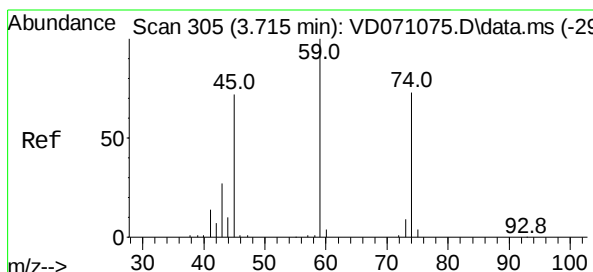
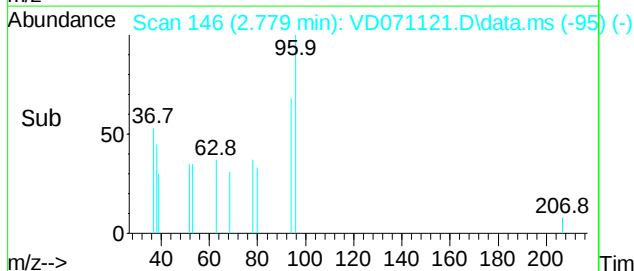
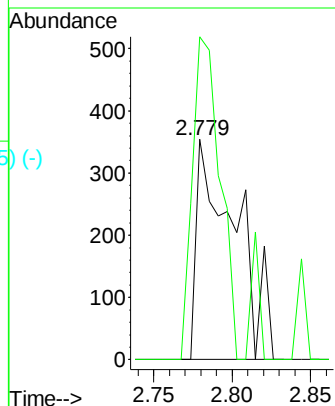
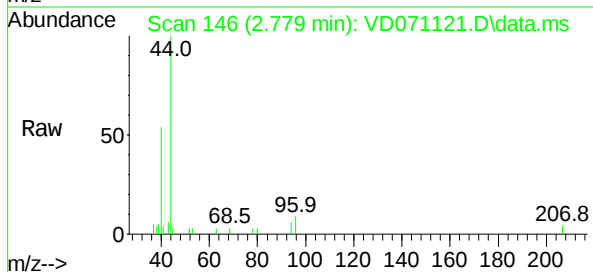
ClientSampleId :

Tgt Ion: 94 Resp: 613

Ion Ratio Lower Upper

94 100

96 146.6 74.8 112.2#



Diethyl Ether

Concen: 1.30 ug/l

RT: 3.491 min Scan# 267

Delta R.T. -0.224 min

Lab File: VD071121.D

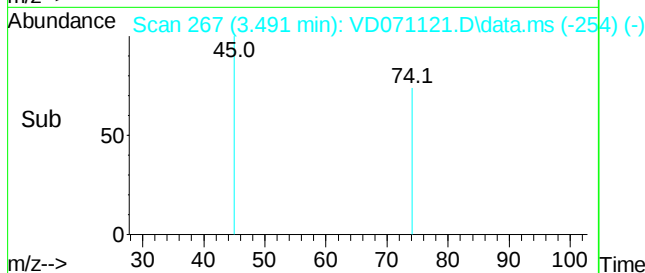
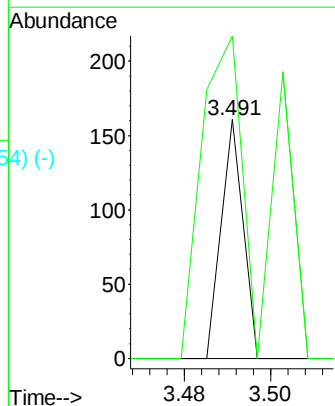
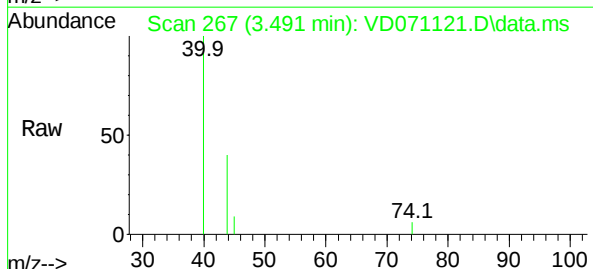
Acq: 02 Dec 2021 16:41

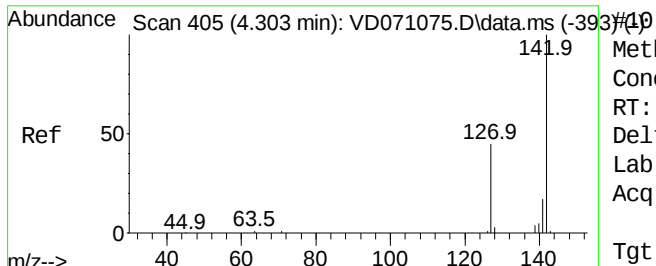
Tgt Ion: 74 Resp: 57

Ion Ratio Lower Upper

74 100

45 366.7 49.6 149.0#





Methyl Iodide

Concen: 5.87 ug/l

RT: 4.309 min Scan# 4

Delta R.T. 0.006 min MSVOA_D

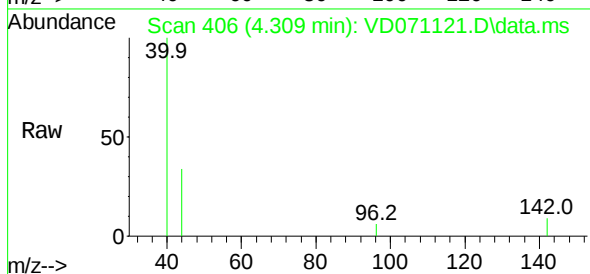
Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :



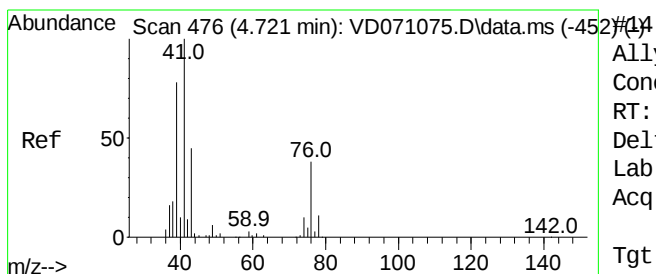
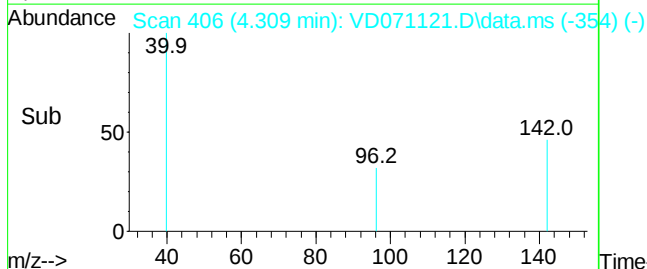
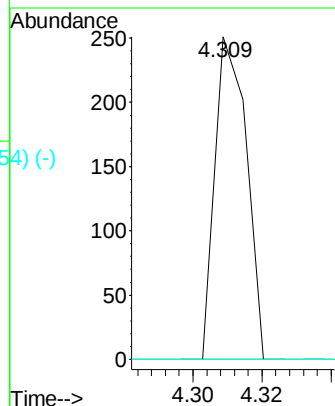
Tgt Ion: 142 Resp: 160

Ion Ratio Lower Upper

142 100

127 0.0 35.0 52.4#

141 0.0 12.0 18.0#



Allyl chloride

Concen: 1.98 ug/l

RT: 4.662 min Scan# 466

Delta R.T. -0.059 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

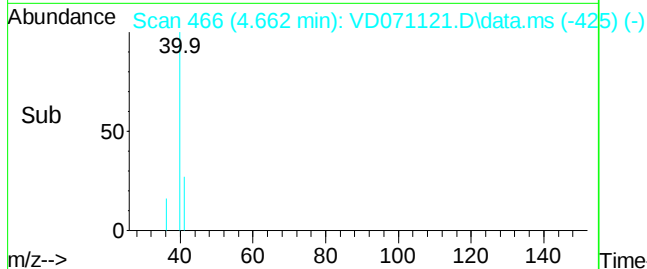
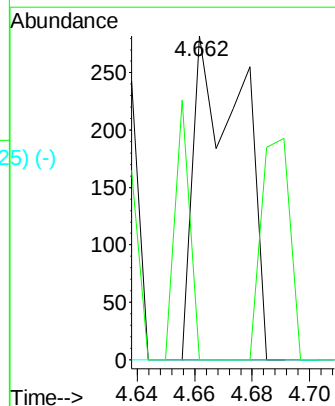
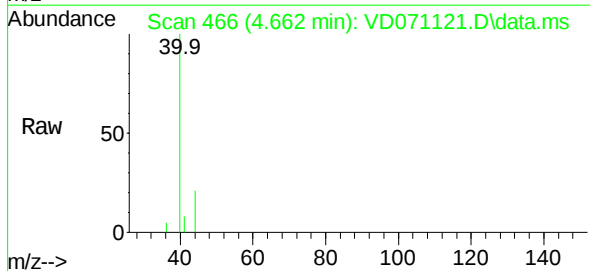
Tgt Ion: 41 Resp: 332

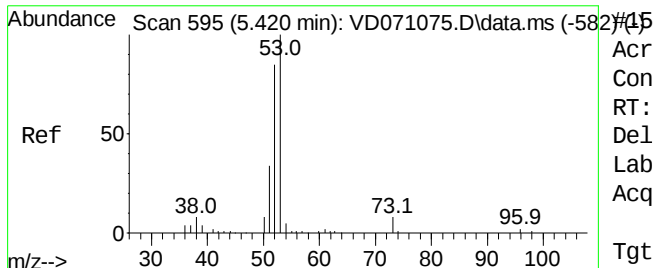
Ion Ratio Lower Upper

41 100

39 24.1 45.6 68.4#

76 0.0 30.2 45.4#





Acrylonitrile

Concen: 2.62 ug/l

RT: 5.538 min Scan#

Delta R.T. 0.118 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :

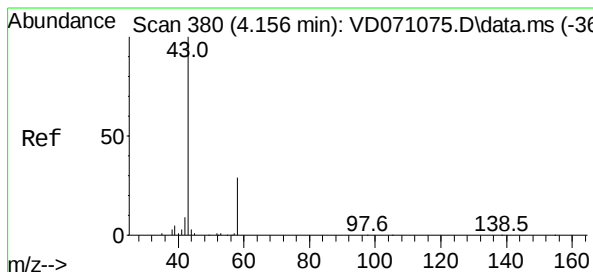
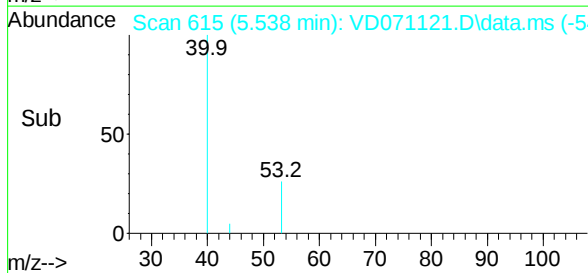
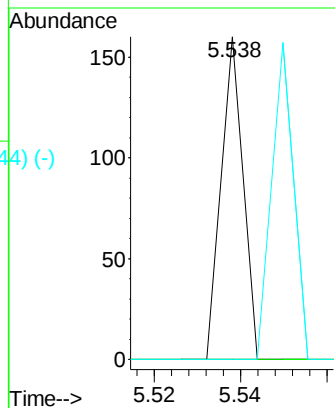
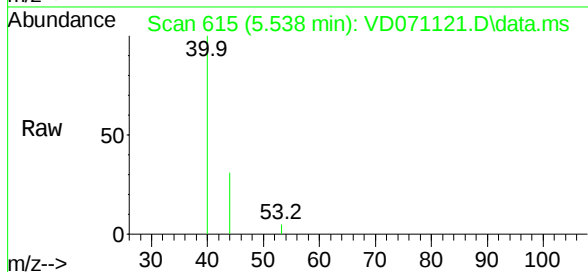
Tgt Ion: 53 Resp: 56

Ion Ratio Lower Upper

53 100

52 0.0 63.8 95.8#

51 98.2 28.5 42.7#



Acetone

Concen: 128.92 ug/l

RT: 4.156 min Scan# 380

Delta R.T. -0.000 min

Lab File: VD071121.D

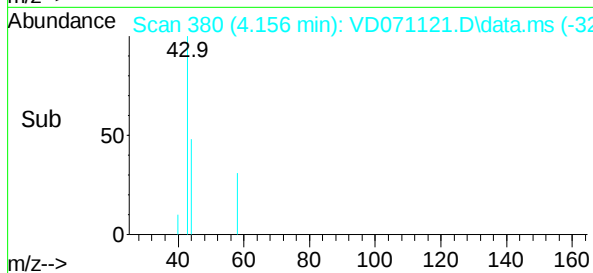
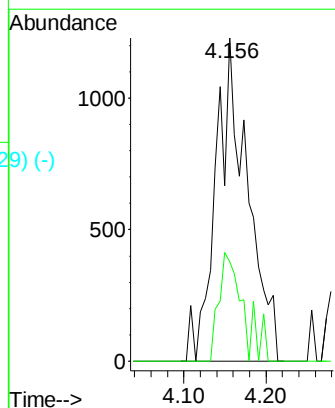
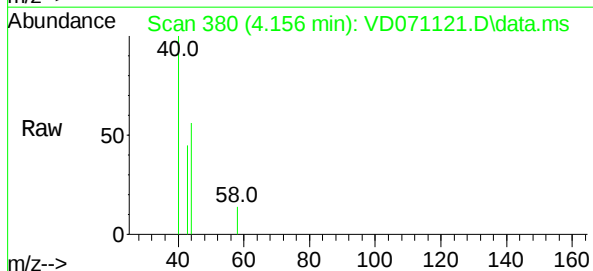
Acq: 02 Dec 2021 16:41

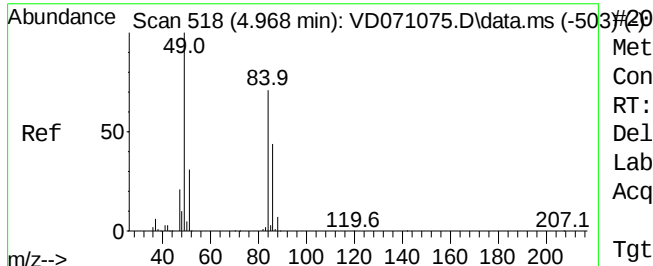
Tgt Ion: 43 Resp: 3310

Ion Ratio Lower Upper

43 100

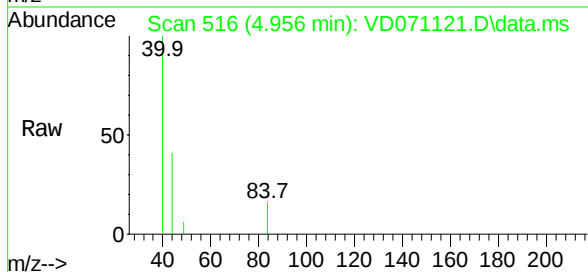
58 30.8 27.8 41.8



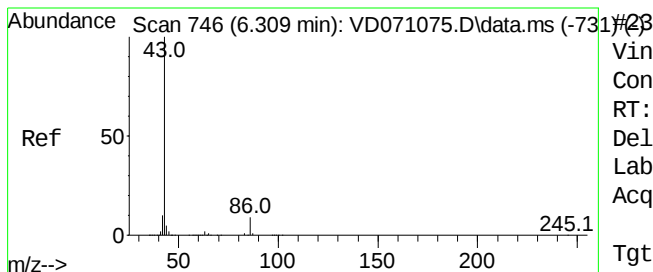
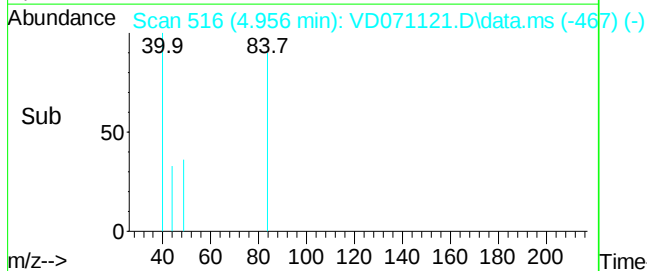
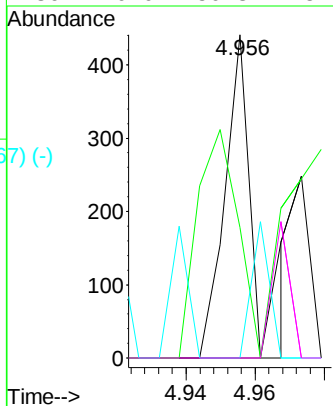


Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 4
Delta R.T. -0.012 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Instrument :
MSVOA_D
ClientSampleId :

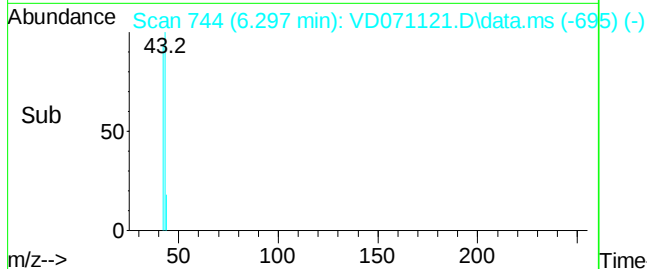
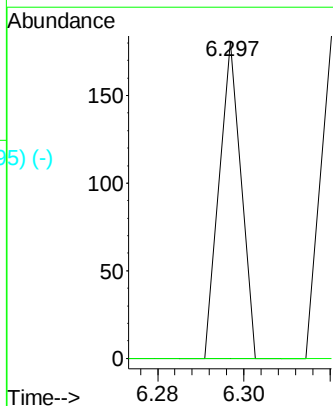
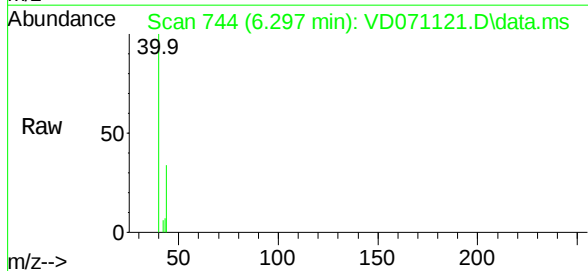


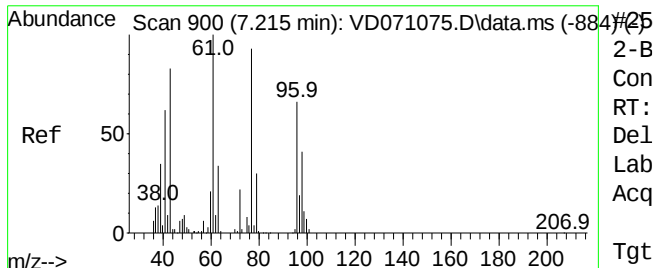
Tgt Ion:	84	Resp:	266
Ion	Ratio	Lower	Upper
84	100		
49	40.4	95.8	143.6#
51	0.0	30.9	46.3#
86	0.0	50.3	75.5#



Vinyl Acetate
Concen: 27.53 ug/l
RT: 6.297 min Scan# 744
Delta R.T. -0.012 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Tgt Ion:	43	Resp:	64
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.4#





2-Butanone

Concen: 40.61 ug/l

RT: 7.203 min Scan# 81

Delta R.T. -0.012 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

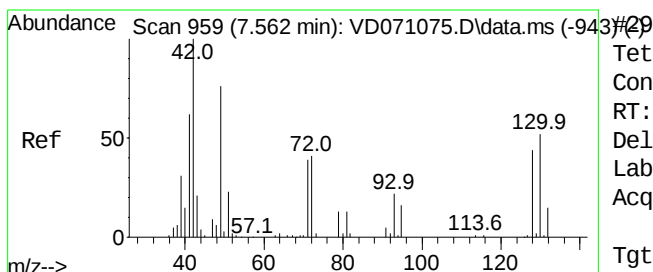
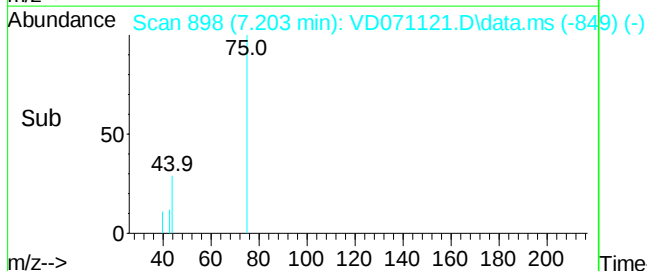
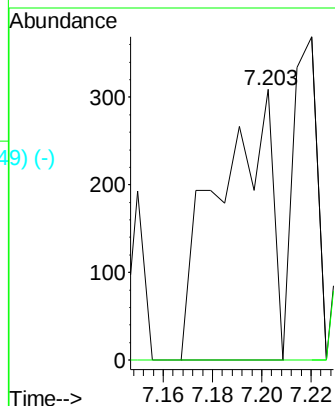
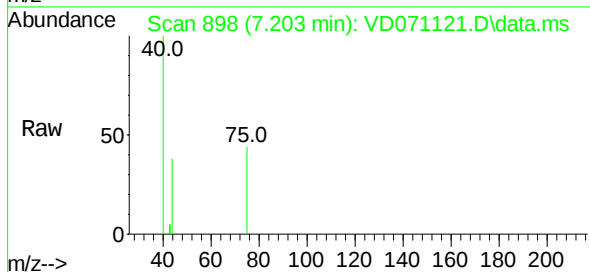
ClientSampleId :

Tgt Ion: 43 Resp: 472

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



Tetrahydrofuran

Concen: 3.73 ug/l

RT: 7.626 min Scan# 970

Delta R.T. 0.064 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

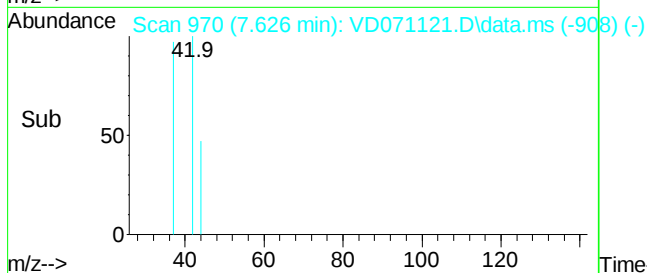
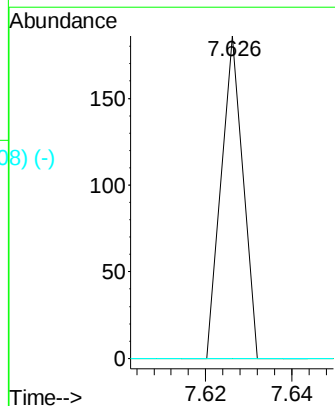
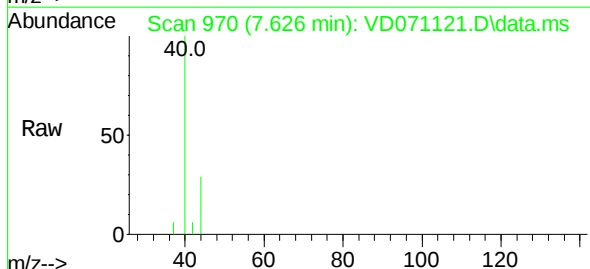
Tgt Ion: 42 Resp: 66

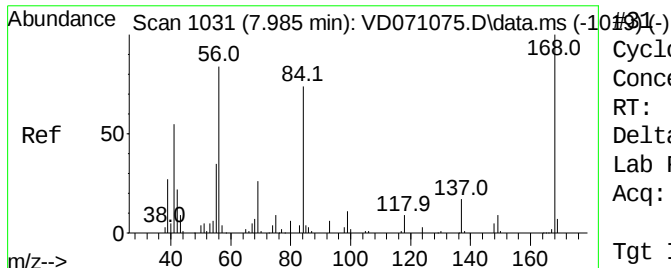
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#





Cyclohexane

Concen: 1.47 ug/l

RT: 7.979 min Scan#

Delta R.T. -0.006 min

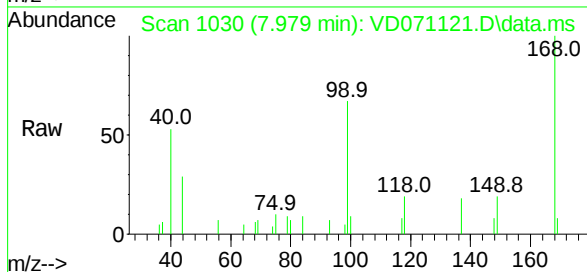
Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :



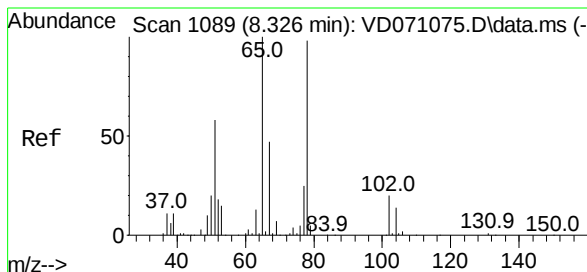
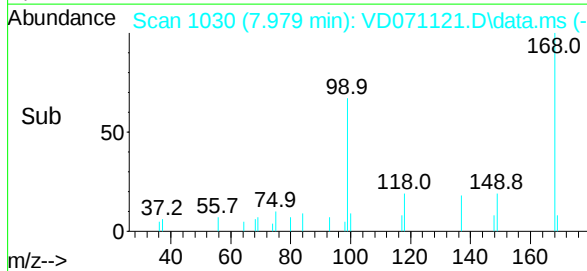
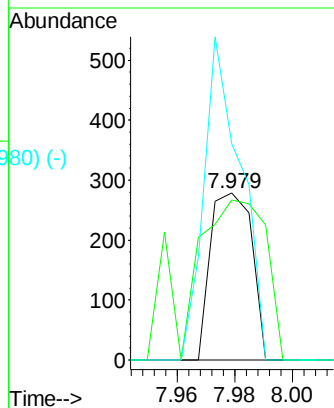
Tgt Ion: 56 Resp: 279

Ion Ratio Lower Upper

56 100

69 95.7 25.9 38.9#

84 129.4 64.3 96.5#



1,2-Dichloroethane-d4

Concen: 83.54 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VD071121.D

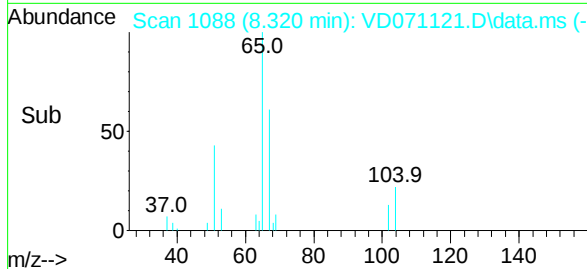
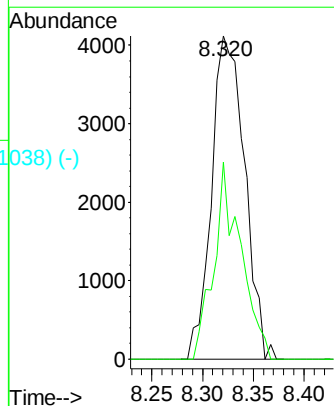
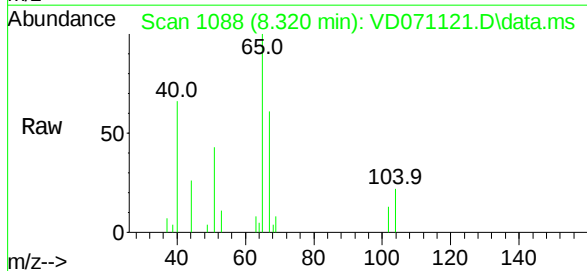
Acq: 02 Dec 2021 16:41

Tgt Ion: 65 Resp: 9305

Ion Ratio Lower Upper

65 100

67 49.6 0.0 112.2



Abundance Scan 1180 (8.861 min): VD071075.D\data.ms (-11704-)

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.861 min Scan#

Delta R.T. 0.000 min

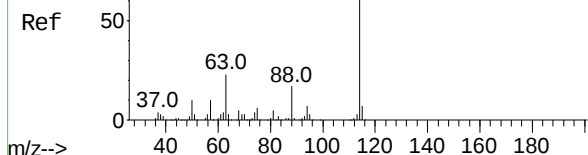
Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :



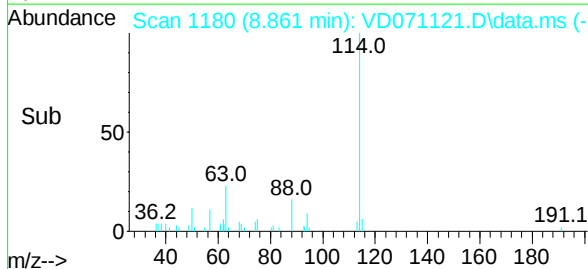
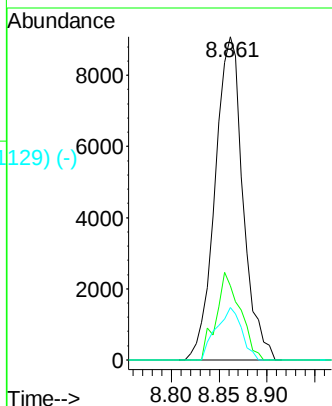
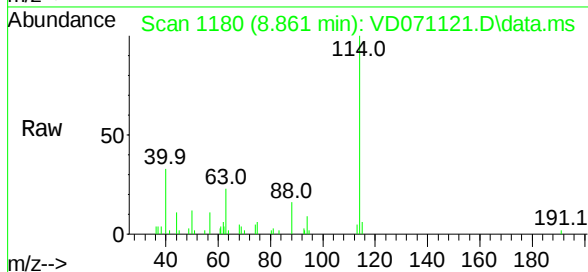
Tgt Ion:114 Resp: 18354

Ion Ratio Lower Upper

114 100

63 22.9 0.0 41.8

88 16.2 0.0 32.8



Abundance Scan 1020 (7.920 min): VD071075.D\data.ms (-10095-)

Dibromofluoromethane

Concen: 42.24 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.012 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

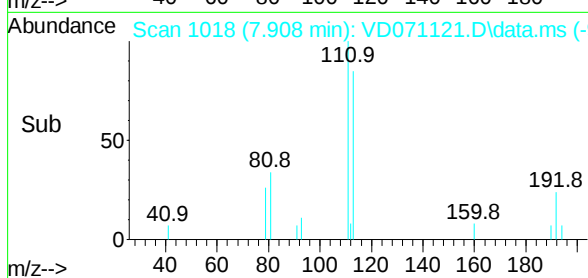
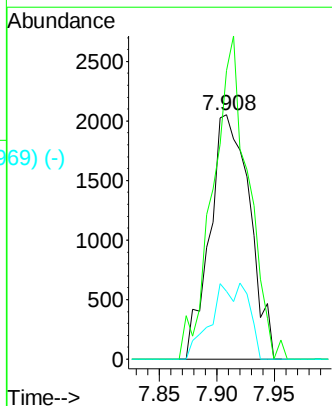
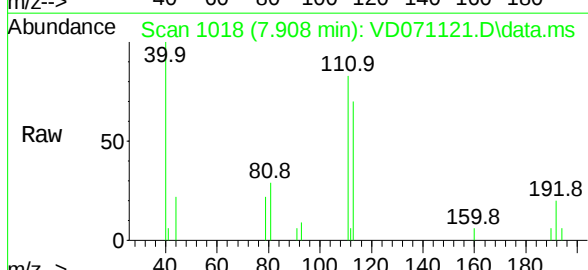
Tgt Ion:113 Resp: 4937

Ion Ratio Lower Upper

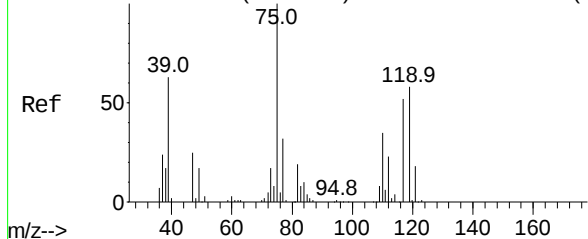
113 100

111 117.1 82.0 123.0

192 18.7 15.2 22.8



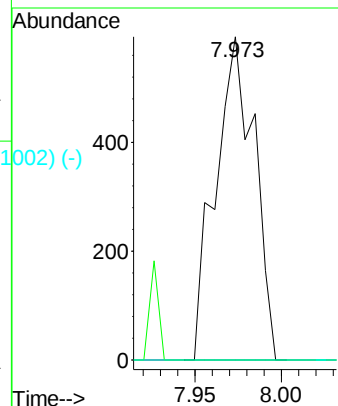
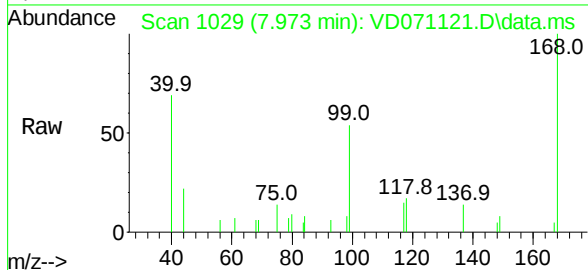
Abundance Scan 1053 (8.114 min): VD071075.D\data.ms (-1039)



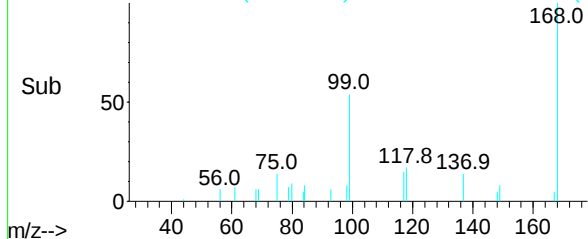
1,1-Dichloropropene
Concen: 5.44 ug/l
RT: 7.973 min Scan# 1053
Delta R.T. -0.141 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Instrument :
MSVOA_D
ClientSampleId :

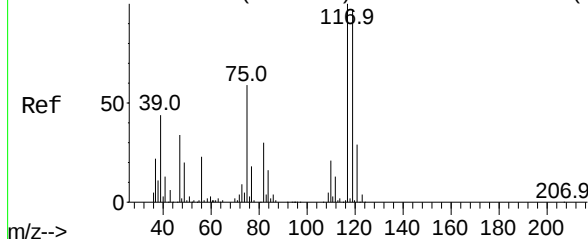
Tgt Ion:	75	Resp:	934
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.8	53.4#
77	0.0	24.8	37.2#



Abundance Scan 1029 (7.973 min): VD071121.D\data.ms (-1002)

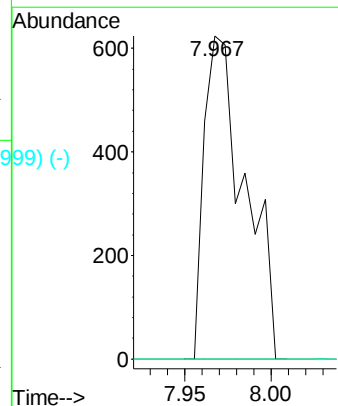
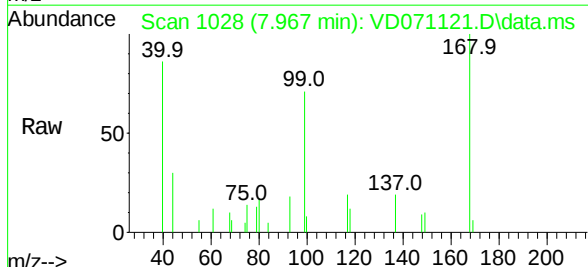


Abundance Scan 1050 (8.097 min): VD071075.D\data.ms (-1039)

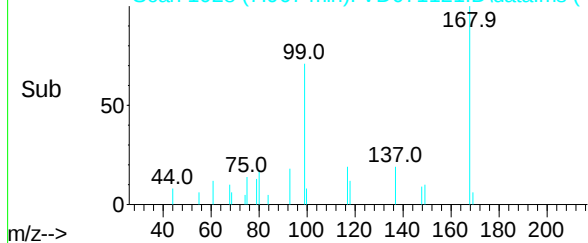


Carbon Tetrachloride
Concen: 6.05 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.130 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

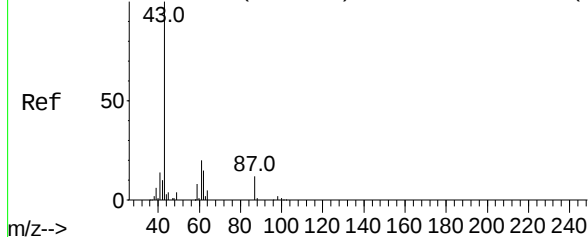
Tgt Ion:	117	Resp:	1023
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.6#
121	0.0	23.6	35.4#



Abundance Scan 1028 (7.967 min): VD071121.D\data.ms (-999)



Abundance Scan 1110 (8.450 min): VD071075.D\data.ms (-1099) (-)



Isopropyl Acetate

Concen: 5.71 ug/l

RT: 8.479 min Scan# 1110

Delta R.T. 0.029 min

Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :

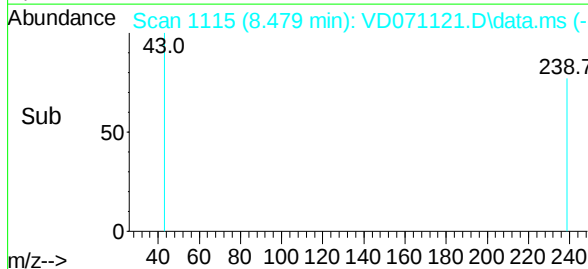
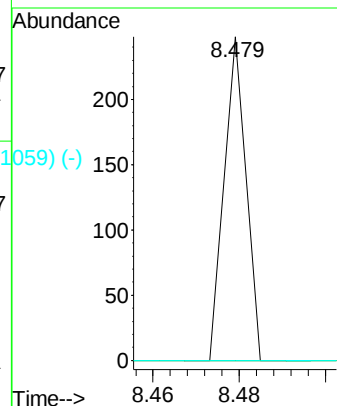
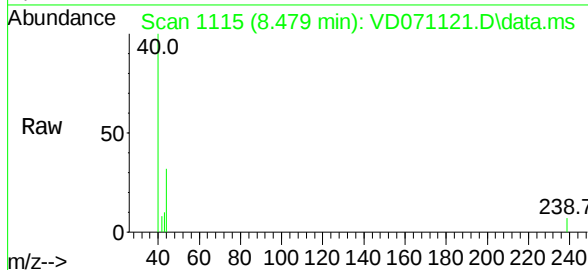
Tgt Ion: 43 Resp: 88

Ion Ratio Lower Upper

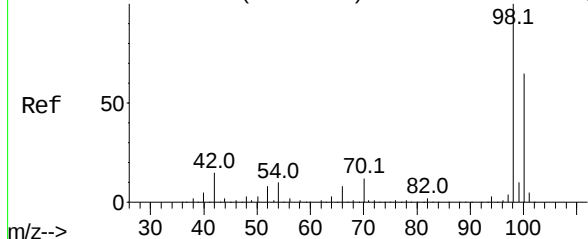
43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



Abundance Scan 1431 (10.338 min): VD071075.D\data.ms (-1450) (-)



Toluene-d8

Concen: 52.76 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071121.D

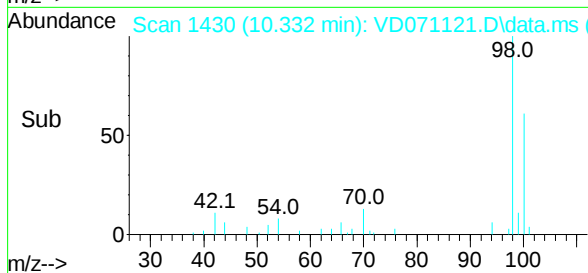
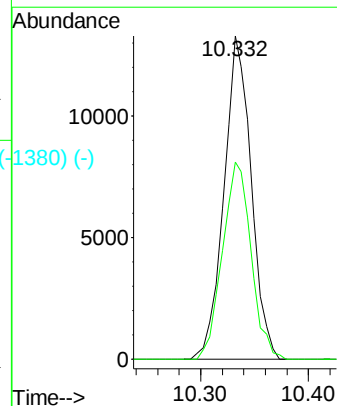
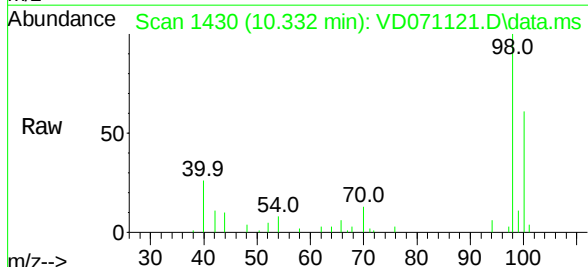
Acq: 02 Dec 2021 16:41

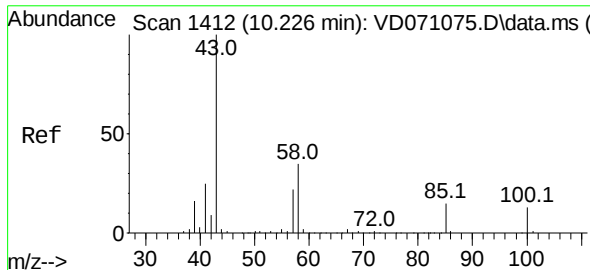
Tgt Ion: 98 Resp: 23465

Ion Ratio Lower Upper

98 100

100 64.0 51.8 77.6

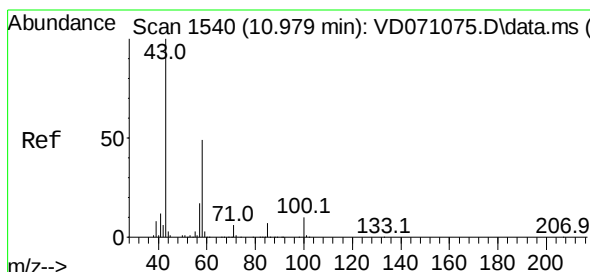
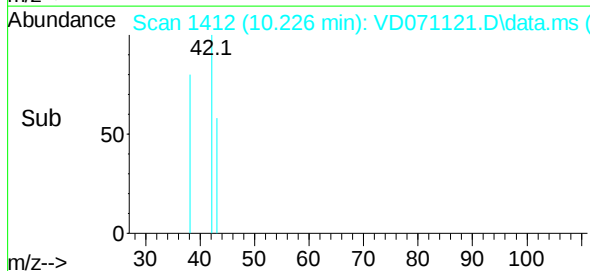
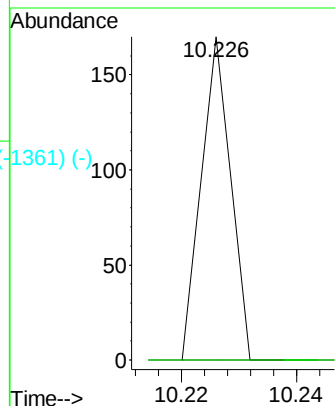
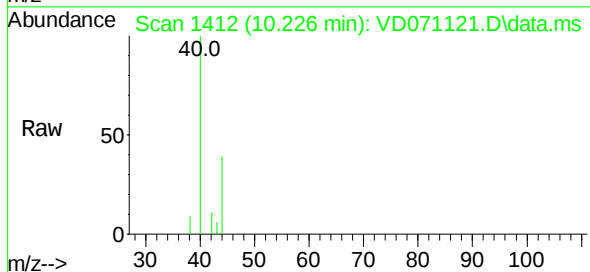




4-Methyl-2-Pentanone
 Concen: 31.28 ug/l
 RT: 10.226 min Scan# 1412
 Delta R.T. -0.000 min
 Lab File: VD071121.D
 Acq: 02 Dec 2021 16:41

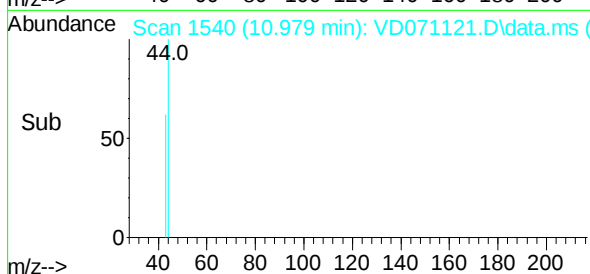
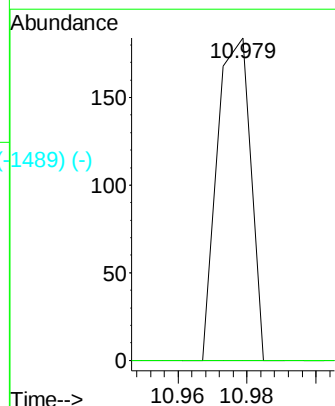
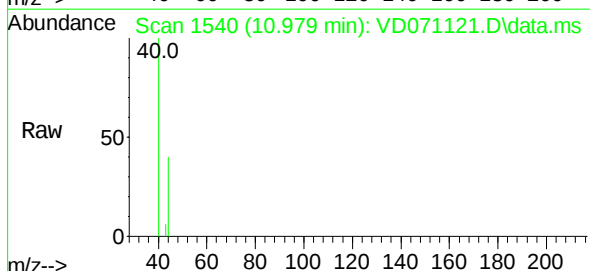
Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 43 Resp: 60
 Ion Ratio Lower Upper
 43 100
 58 0.0 33.1 49.7#



2-Hexanone
 Concen: 36.27 ug/l
 RT: 10.979 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VD071121.D
 Acq: 02 Dec 2021 16:41

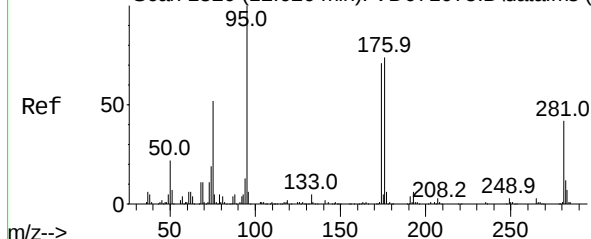
Tgt Ion: 43 Resp: 124
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.7 86.1#



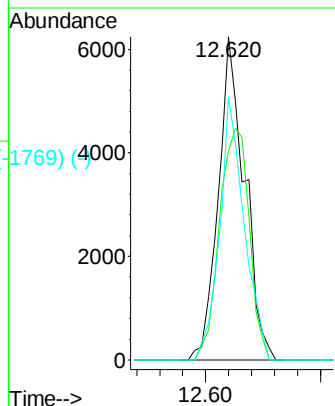
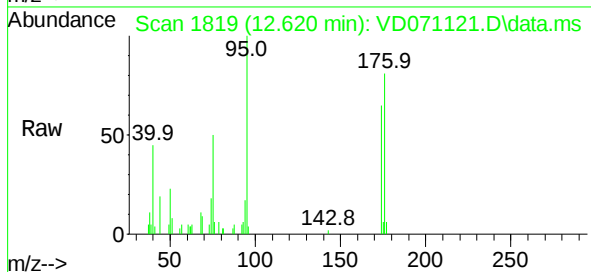
Abundance Scan 1820 (12.626 min): VD071075.D\data.ms (-1662) (-)

4-Bromofluorobenzene
Concen: 64.34 ug/l
RT: 12.620 min Scan# 1820
Delta R.T. -0.006 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

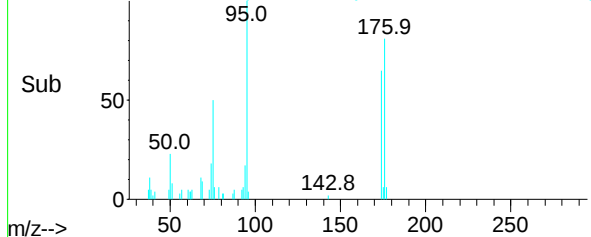
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	95	Resp:	9919
Ion	Ratio	Lower	Upper
95	100		
174	81.0	0.0	159.4
176	76.1	0.0	154.0



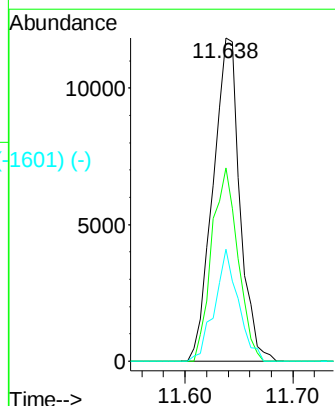
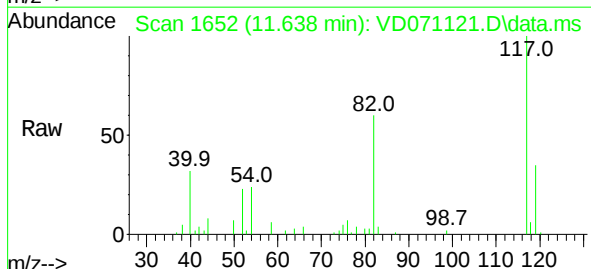
Abundance Scan 1819 (12.620 min): VD071121.D\data.ms (-1769) (-)



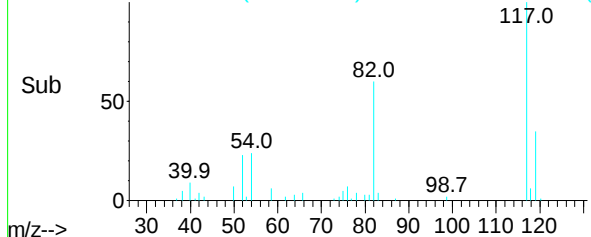
Abundance Scan 1652 (11.638 min): VD071075.D\data.ms (-1663) (-)

Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Tgt Ion:	117	Resp:	20658
Ion	Ratio	Lower	Upper
117	100		
82	59.8	44.7	67.1
119	34.6	26.2	39.4



Abundance Scan 1652 (11.638 min): VD071121.D\data.ms (-1601) (-)



Abundance Scan 1669 (11.738 min): VD071075.D\data.ms (-1667) (-)

Ethyl Benzene

Concen: 2.98 ug/l

RT: 11.844 min Scan# 1667

Delta R.T. 0.106 min

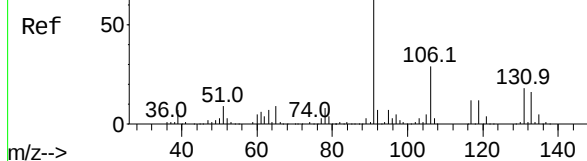
Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :

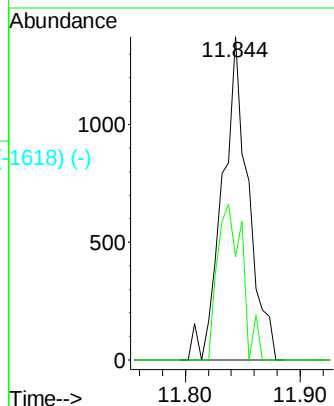
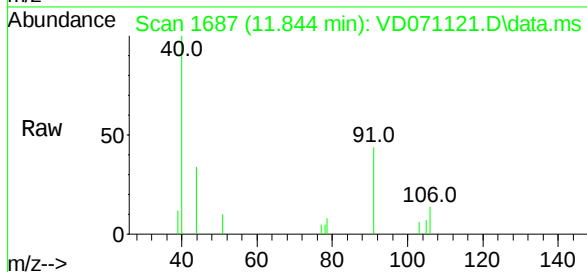


Tgt Ion: 91 Resp: 2147

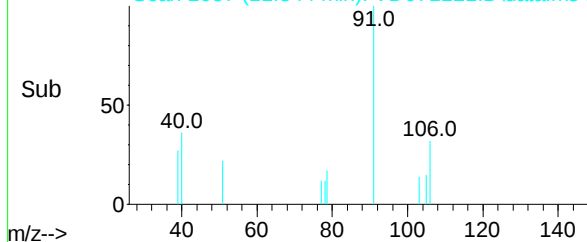
Ion Ratio Lower Upper

91 100

106 31.9 24.6 36.8



Abundance Scan 1687 (11.844 min): VD071121.D\data.ms (-1618) (-)



Abundance Scan 1688 (11.850 min): VD071075.D\data.ms (-1668) (-)

m/p-Xylenes

Concen: 3.67 ug/l

RT: 11.838 min Scan# 1686

Delta R.T. -0.012 min

Lab File: VD071121.D

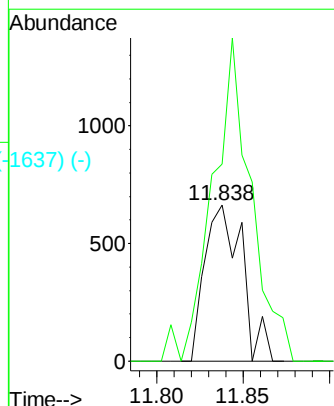
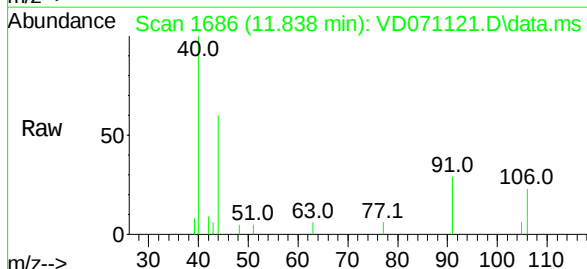
Acq: 02 Dec 2021 16:41

Tgt Ion:106 Resp: 999

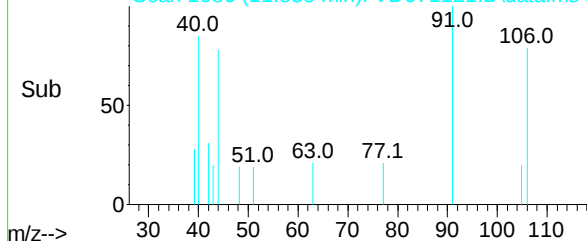
Ion Ratio Lower Upper

106 100

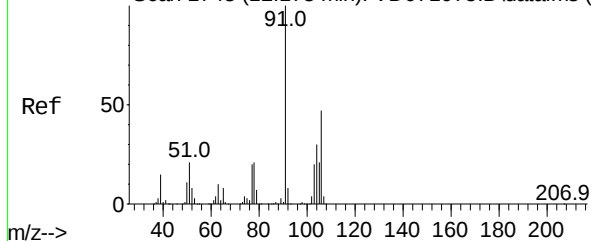
91 214.9 160.1 240.1



Abundance Scan 1686 (11.838 min): VD071121.D\data.ms (-1637) (-)



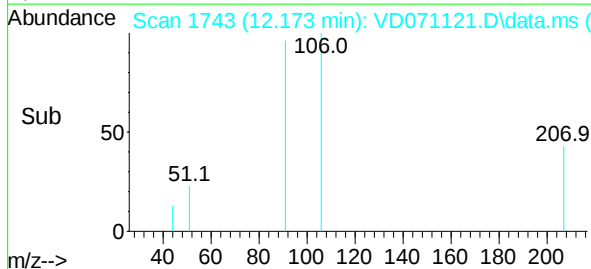
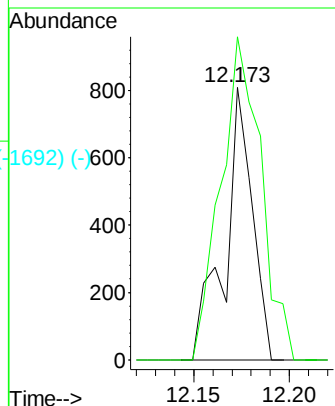
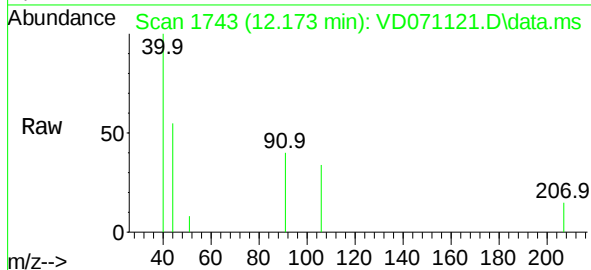
Abundance Scan 1743 (12.173 min): VD071075.D\data.ms (-1759) (-)



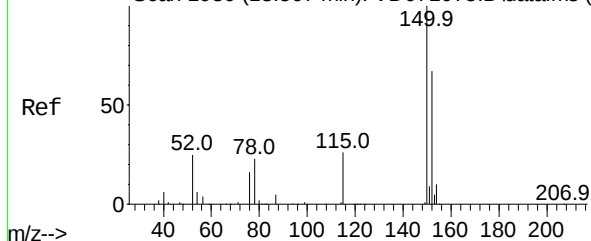
o-Xylene
Concen: 3.12 ug/l
RT: 12.173 min Scan# 1759
Delta R.T. -0.000 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:106 Resp: 799
Ion Ratio Lower Upper
106 100
91 174.3 106.3 319.0

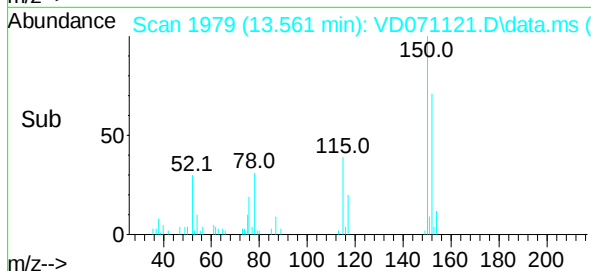
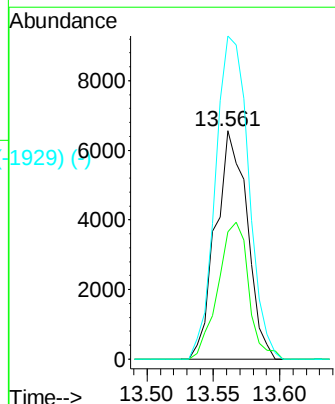
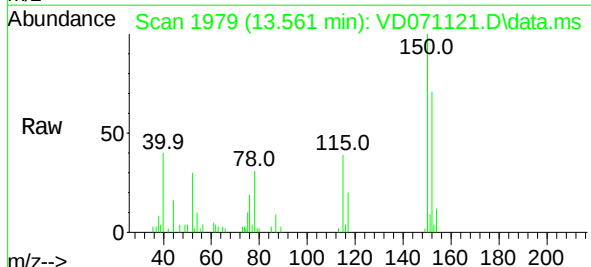


Abundance Scan 1980 (13.567 min): VD071075.D\data.ms (-1972) (-)



1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Tgt Ion:152 Resp: 10791
Ion Ratio Lower Upper
152 100
115 58.3 29.8 89.3
150 149.3 0.0 349.2



Abundance Scan 1761 (12.279 min): VD071075.D\data.ms (-1752) (-)

N-ethyl acetate

Concen: 6.03 ug/l

RT: 12.279 min Scan# 1752

Delta R.T. -0.000 min

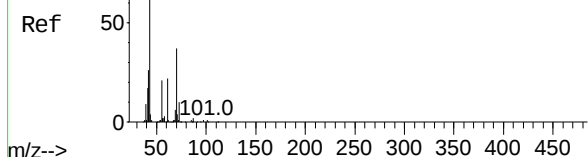
Lab File: VD071121.D

Acq: 02 Dec 2021 16:41

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43 Resp: 79

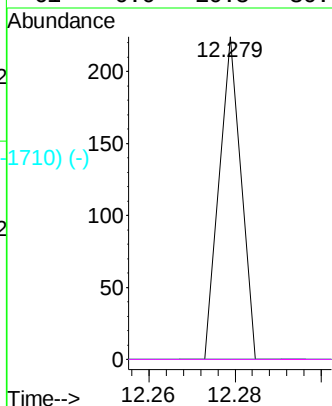
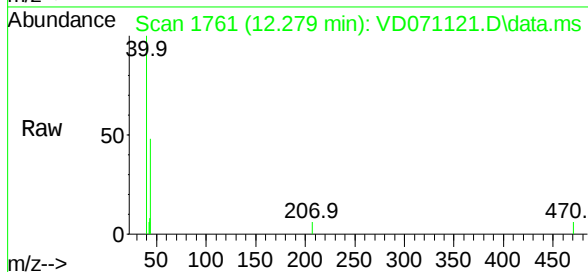
Ion Ratio Lower Upper

43 100

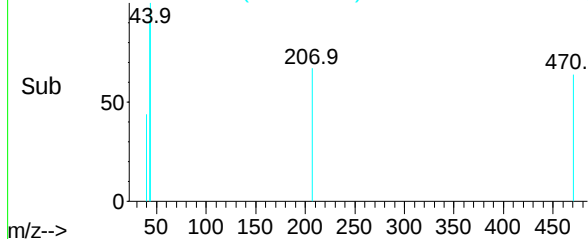
70 0.0 36.6 55.0#

55 0.0 22.5 33.7#

61 0.0 20.5 30.7#



Abundance Scan 1761 (12.279 min): VD071121.D\data.ms (-1710) (-)



Abundance Scan 1845 (12.773 min): VD071075.D\data.ms (-1873) (-)

1,2,3-Trichloropropane

Concen: 55.91 ug/l

RT: 12.626 min Scan# 1820

Delta R.T. -0.147 min

Lab File: VD071121.D

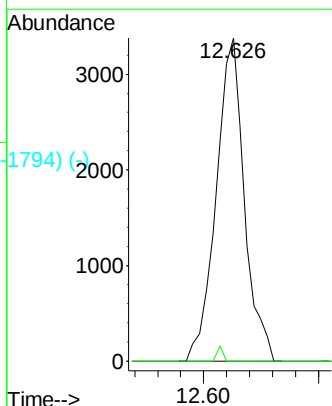
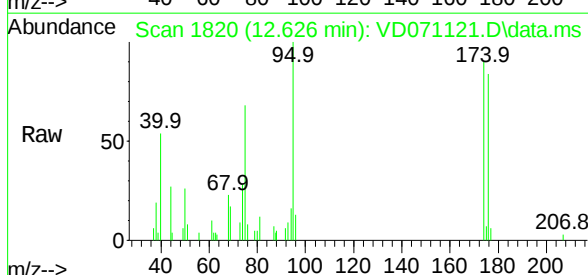
Acq: 02 Dec 2021 16:41

Tgt Ion: 75 Resp: 5748

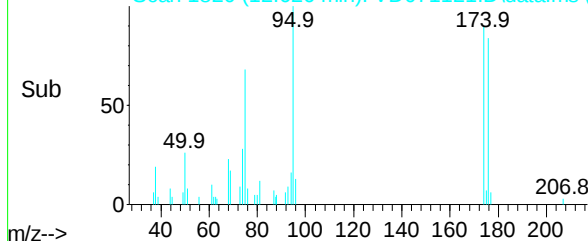
Ion Ratio Lower Upper

75 100

77 1.0 158.4 475.3#



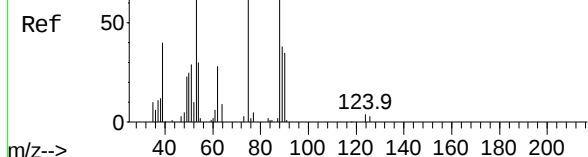
Abundance Scan 1820 (12.626 min): VD071121.D\data.ms (-1794) (-)



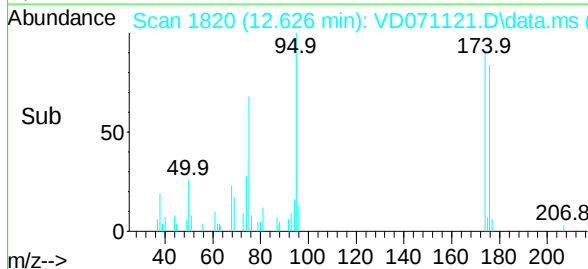
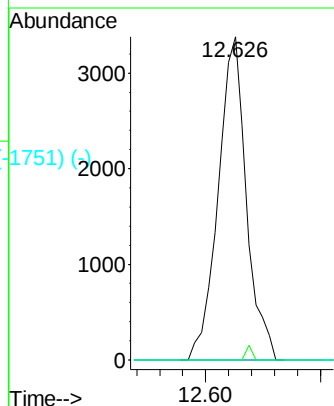
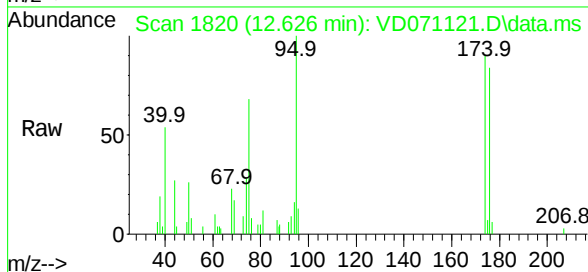
Abundance Scan 1802 (12.520 min): VD071075.D\data.ms (-1798)

trans-1,4-Dichloro-2-butene
Concen: 121.44 ug/l
RT: 12.626 min Scan# 1798
Delta R.T. 0.106 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	75	Resp:	5748
Ion	Ratio	Lower	Upper
75	100		
53	0.9	62.6	94.0#
89	0.0	34.5	51.7#



Abundance Scan 2289 (15.385 min): VD071075.D\data.ms (-2295)

Naphthalene
Concen: 5.26 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. -0.000 min
Lab File: VD071121.D
Acq: 02 Dec 2021 16:41

Tgt Ion:	128	Resp:	1658
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	4.4	8.7	13.1#

