

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122818\
 Data File : VD060750.D
 Acq On : 28 Dec 2018 16:59
 Operator : VA/AP
 Sample : J6590-01
 Misc : 5.85g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AOC2-06A

Quant Time: Dec 28 22:02:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.43	168	337509	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.48	114	1369941	50.00	ug/l	0.04
63) Chlorobenzene-d5	11.32	117	943251	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	13.40	152	349314	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.82	65	336622	144.32	ug/l	0.03
Spiked Amount	50.000		Recovery	=	288.64%	
35) Dibromofluoromethane	6.35	113	515569	51.42	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.84%	
50) Toluene-d8	9.52	98	463082	15.48	ug/l	0.06
Spiked Amount	50.000		Recovery	=	30.96%	
62) 4-Bromofluorobenzene	12.53	95	990276	94.51	ug/l	0.11
Spiked Amount	50.000		Recovery	=	189.02%	

Target Compounds

						Qvalue
3) Chloromethane	1.71	50	124684	31.415	ug/l #	67
5) Bromomethane	2.17	94	1368	1.938	ug/l #	58
6) Chloroethane	2.35	64	4263	4.533	ug/l #	1
11) Tert butyl alcohol	3.95	59	4545	46.626	ug/l #	1
13) Acrolein	2.94	56	716768	7215.745	ug/l #	1
15) Acrylonitrile	4.16	53	1673538	2957.212	ug/l #	41
16) Acetone	3.14	43	5014029	12309.630	ug/l #	62
20) Methylene Chloride	3.63	84	1016113	240.207	ug/l #	9
23) Vinyl Acetate	4.95	43	72191	12.821	ug/l #	87
24) 1,1-Dichloroethane	4.85	63	284347	46.451	ug/l #	85
25) 2-Butanone	5.62	43	5299762	6799.383	ug/l #	62
26) 2,2-Dichloropropane	5.49	77	240028	49.674	ug/l #	49
28) Bromochloromethane	5.99	49	17782	6.876	ug/l #	16
29) Tetrahydrofuran	5.97	42	106034	239.967	ug/l #	40
30) Chloroform	6.09	83	5496617	892.355	ug/l #	21
32) 1,1,1-Trichloroethane	6.31	97	5804	1.139	ug/l #	1
37) Ethyl Acetate	5.62	43	5315183	900.912	ug/l #	73
38) Carbon Tetrachloride	6.45	117	39349	3.162	ug/l #	16
39) Methylcyclohexane	8.13	83	14455658	898.499	ug/l #	46
41) Methacrylonitrile	5.98	41	2242023	687.027	ug/l #	65
42) 1,2-Dichloroethane	7.04	62	59031	6.528	ug/l #	1
43) Isopropyl Acetate	8.50	43	3182832	420.396	ug/l #	49
45) 1,2-Dichloropropane	8.12	63	442048	49.468	ug/l #	1
46) Dibromomethane	8.21	93	60104	11.785	ug/l #	1
47) Bromodichloromethane	8.61	83	5071212	419.813	ug/l #	30
51) 4-Methyl-2-Pentanone	9.31	43	30098912	6488.837	ug/l #	47
52) Toluene	9.65	92	108729	4.760	ug/l #	16
53) t-1,3-Dichloropropene	10.01	75	12102	1.201	ug/l #	1
55) 1,1,2-Trichloroethane	10.20	97	4623085	752.198	ug/l #	19
56) Ethyl methacrylate	10.16	69	2171895	380.456	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.93	63	174823	51.974	ug/l #	47
59) 2-Hexanone	10.51	43	9358841	2882.457	ug/l #	35
60) Dibromochloromethane	10.65	129	24602	3.143	ug/l	97
61) 1,2-Dibromoethane	10.82	107	76217	11.956	ug/l #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

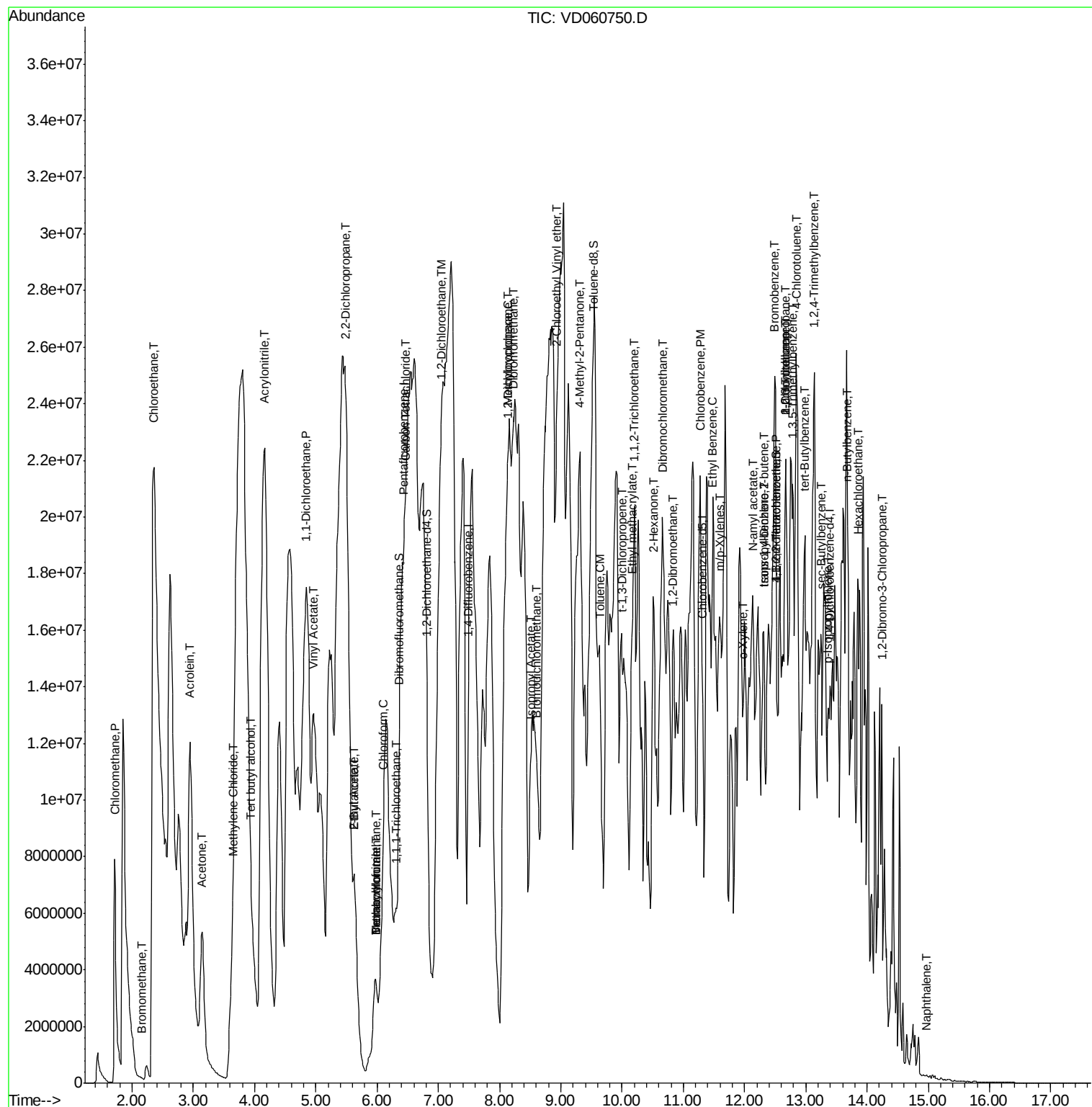
65) Chlorobenzene	11.28	112	58622	2.813	ug/l #	56
67) Ethyl Benzene	11.47	91	4339446	121.586	ug/l	96
68) m/p-Xylenes	11.60	106	1861952	142.753	ug/l	98
69) o-Xylene	11.97	106	283292	22.893	ug/l	87
73) Isopropylbenzene	12.30	105	7887258	317.130	ug/l	99
74) N-amyl acetate	12.13	43	2171576	369.959	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.53	83	202022	50.114	ug/l #	94
76) 1,2,3-Trichloropropane	12.68	75	154131	38.757	ug/l #	1
77) Bromobenzene	12.49	156	11494	1.750	ug/l #	1
78) n-propylbenzene	12.68	91	19958350	627.708	ug/l #	76
79) 2-Chlorotoluene	12.68	91	19958350	1171.952	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.79	105	30555984	1591.053	ug/l	81
81) trans-1,4-Dichloro-2-buten	12.30	75	90237	82.115	ug/l #	1
82) 4-Chlorotoluene	12.83	91	1082410	56.076	ug/l #	47
83) tert-Butylbenzene	12.98	119	235397	10.770	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.14	105	17835817	901.722	ug/l	83
85) sec-Butylbenzene	13.25	105	5899081	221.316	ug/l	96
86) p-Isopropyltoluene	13.37	119	3682196	171.138	ug/l	92
89) n-Butylbenzene	13.69	91	9078364	412.895	ug/l	95
90) Hexachloroethane	13.85	117	1848153	349.651	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.23	75	43169	91.152	ug/l #	3
95) Naphthalene	14.97	128	19565	2.140	ug/l #	79

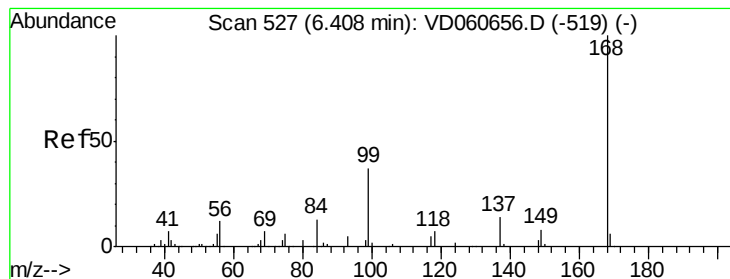
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.43 min Scan# 529

Delta R.T. 0.02 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

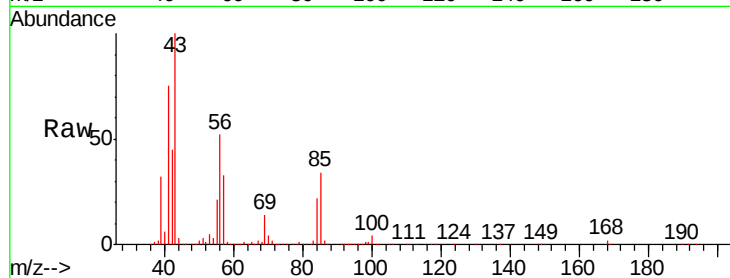
AOC2-06A

Tgt Ion:168 Resp: 337509

Ion Ratio Lower Upper

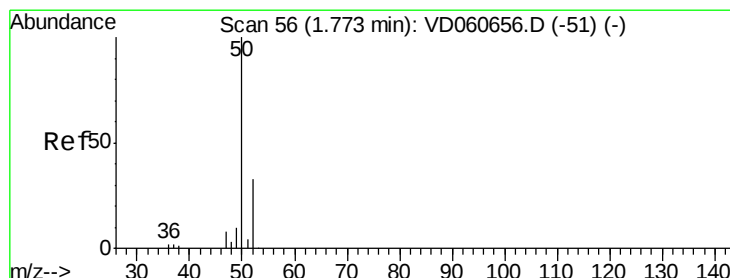
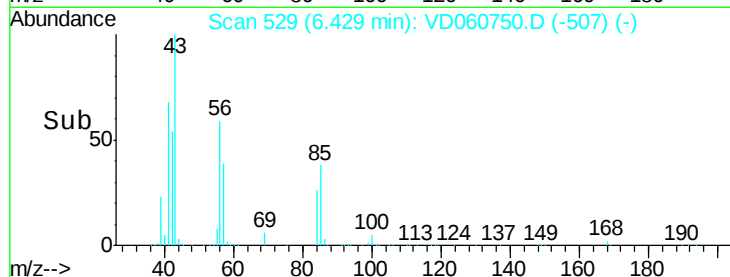
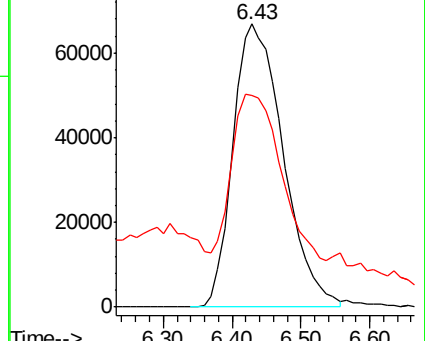
168 100

99 74.7 38.7 58.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 31.415 ug/l

RT: 1.71 min Scan# 50

Delta R.T. -0.06 min

Lab File: VD060750.D

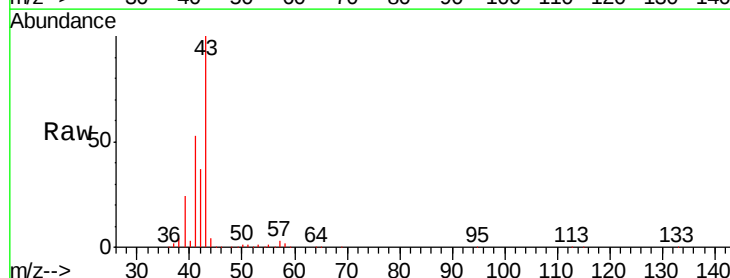
Acq: 28 Dec 2018 16:59

Tgt Ion: 50 Resp: 124684

Ion Ratio Lower Upper

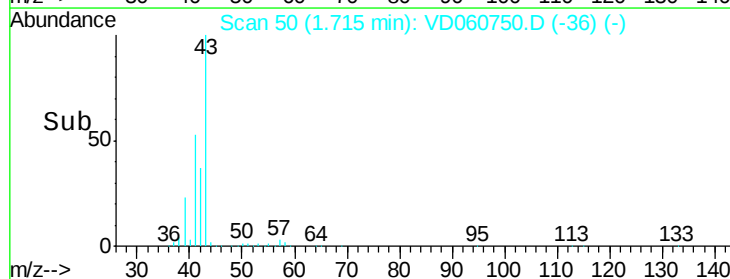
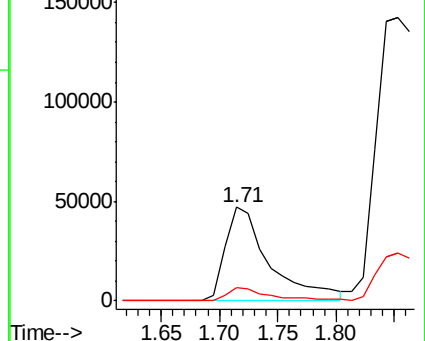
50 100

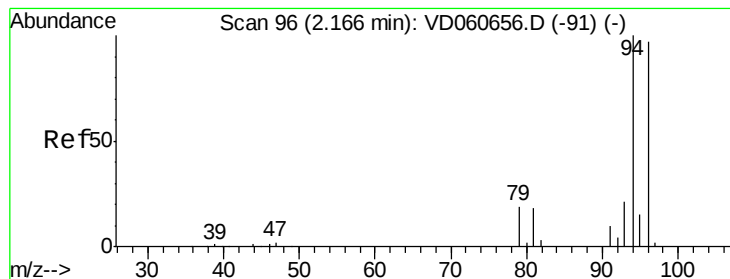
52 14.5 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 1.938 ug/l

RT: 2.17 min Scan# 96

Delta R.T. 0.00 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

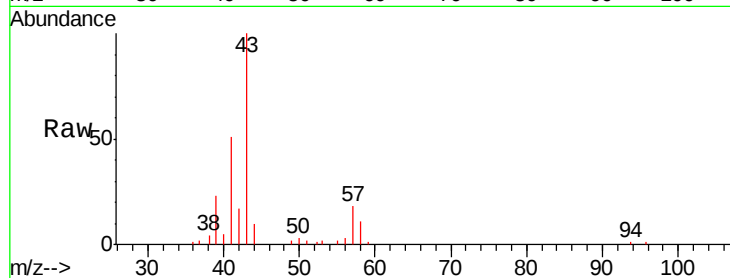
AOC2-06A

Tgt Ion: 94 Resp: 1368

Ion Ratio Lower Upper

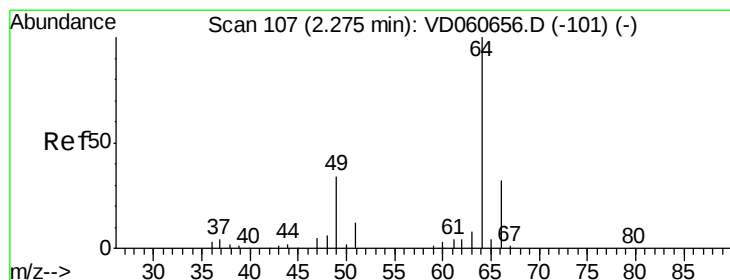
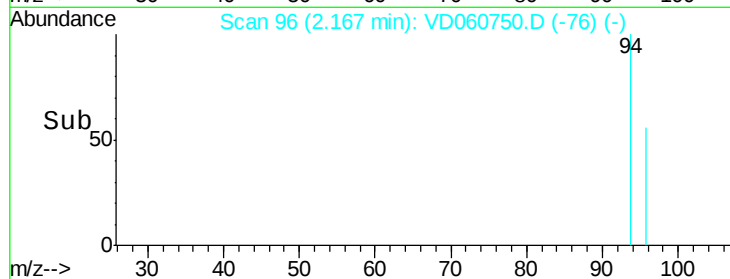
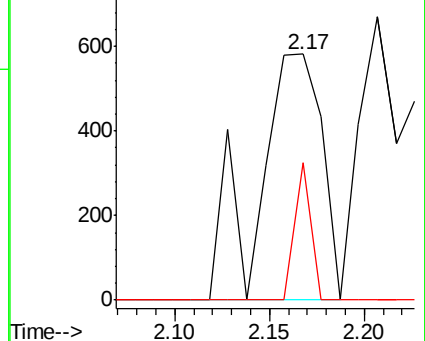
94 100

96 55.8 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.533 ug/l

RT: 2.35 min Scan# 115

Delta R.T. 0.08 min

Lab File: VD060750.D

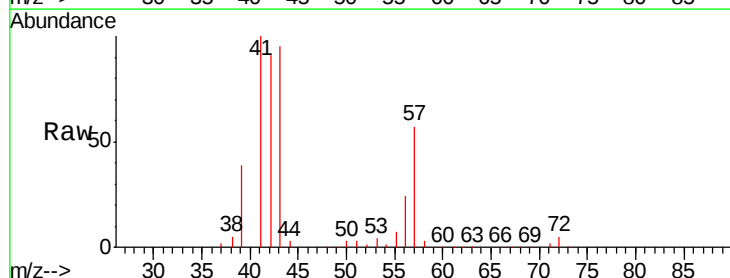
Acq: 28 Dec 2018 16:59

Tgt Ion: 64 Resp: 4263

Ion Ratio Lower Upper

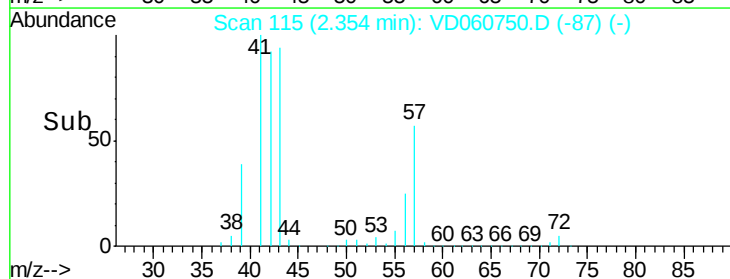
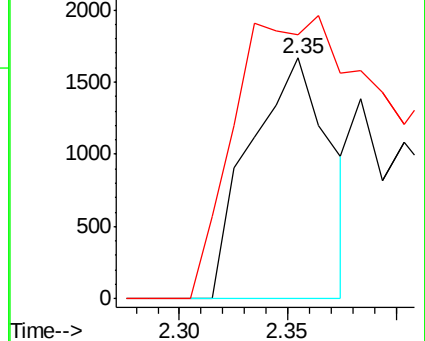
64 100

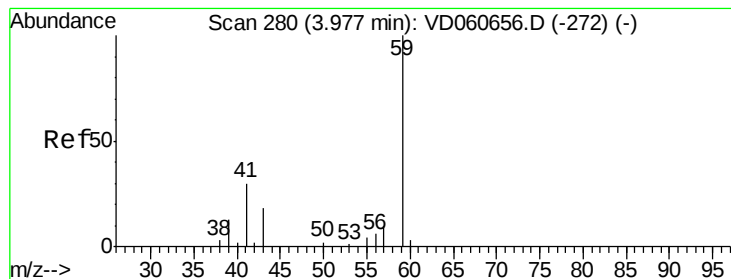
66 109.7 25.6 38.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



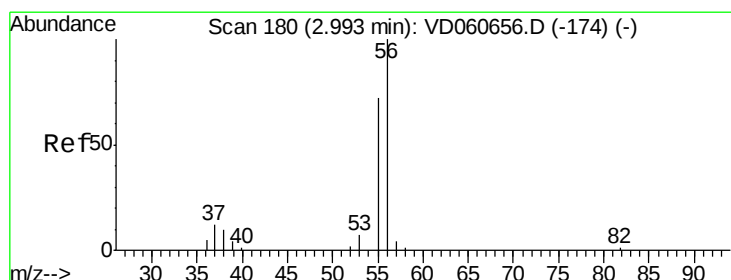
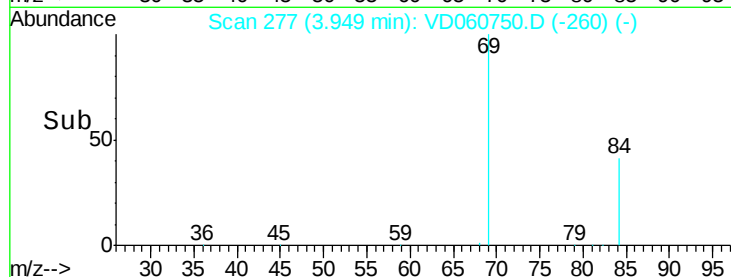
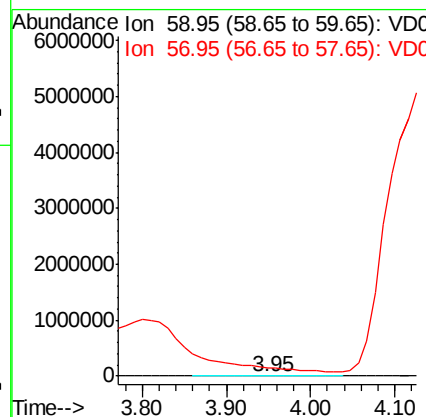
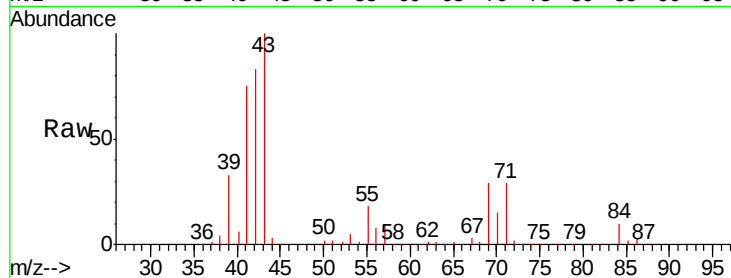


#11

Tert butyl alcohol
 Concen: 46.626 ug/l
 RT: 3.95 min Scan# 277
 Delta R.T. -0.03 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

Instrument :
 MSVOA_D
 ClientSampleId :
 AOC2-06A

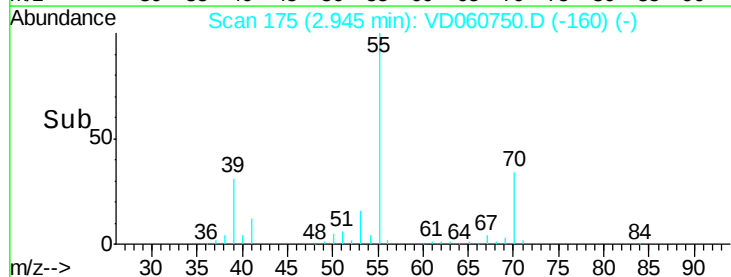
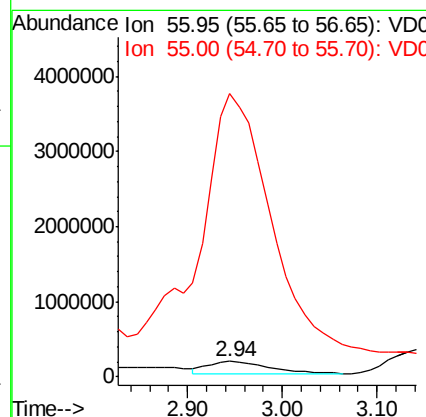
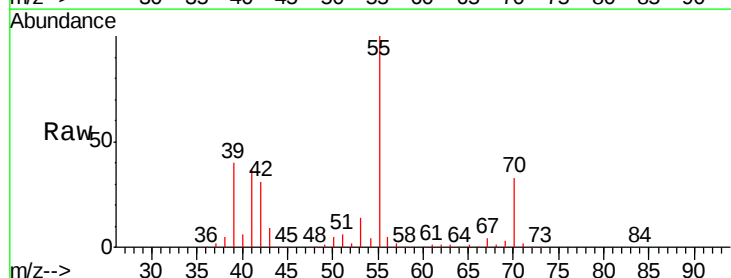
Tgt Ion: 59 Resp: 4545
 Ion Ratio Lower Upper
 59 100
 57 18039.8 7.8 11.6#

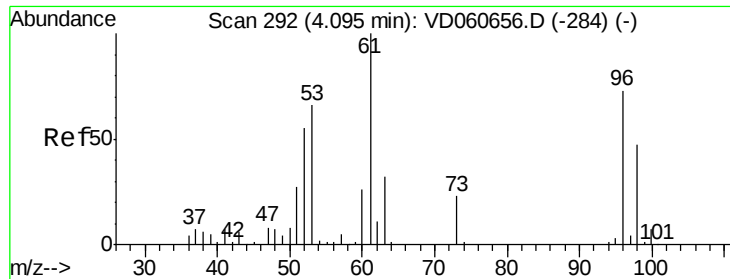


#13

Acrolein
 Concen: 7215.745 ug/l
 RT: 2.94 min Scan# 175
 Delta R.T. -0.05 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

Tgt Ion: 56 Resp: 716768
 Ion Ratio Lower Upper
 56 100
 55 1857.2 57.7 86.5#





#15

Acrylonitrile

Concen: 2957.212 ug/l

RT: 4.16 min Scan# 298

Delta R.T. 0.06 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

AOC2-06A

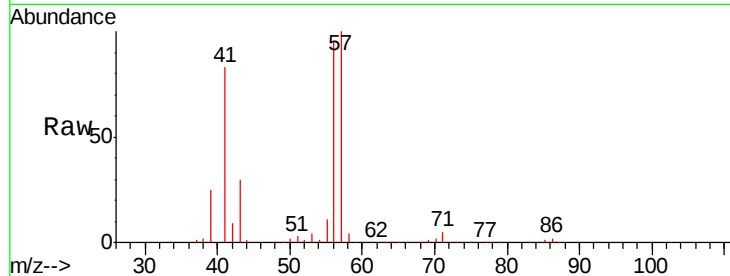
Tgt Ion: 53 Resp: 1673538

Ion Ratio Lower Upper

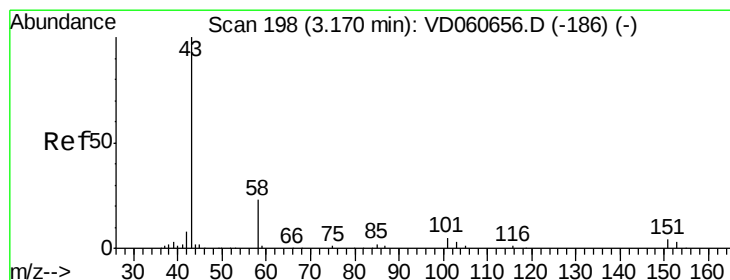
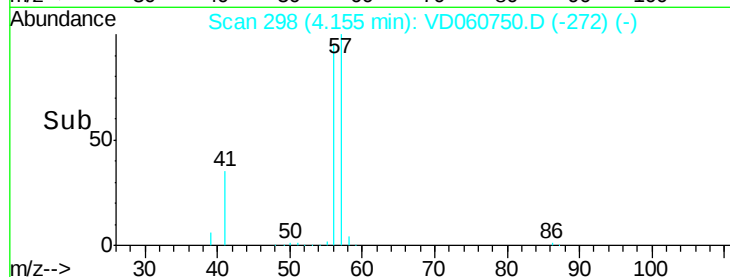
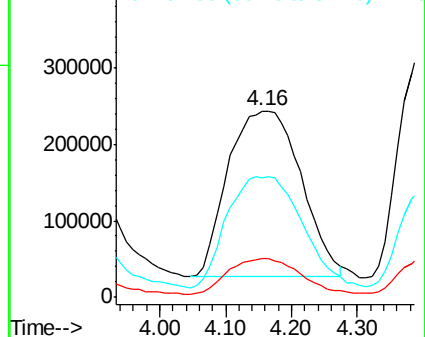
53 100

52 20.7 66.7 100.1#

51 64.3 32.7 49.1#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 12309.630 ug/l

RT: 3.14 min Scan# 195

Delta R.T. -0.03 min

Lab File: VD060750.D

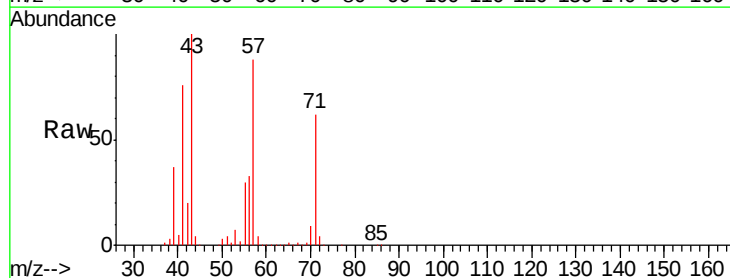
Acq: 28 Dec 2018 16:59

Tgt Ion: 43 Resp: 5014029

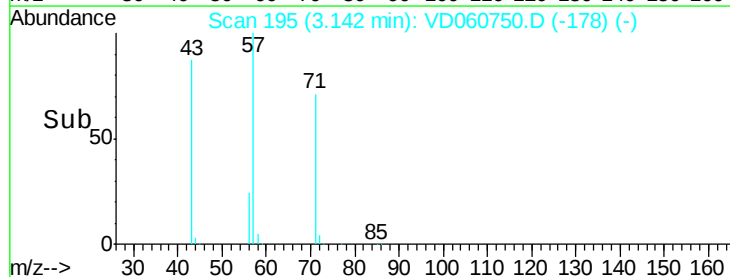
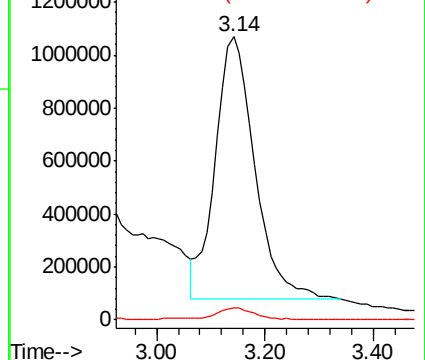
Ion Ratio Lower Upper

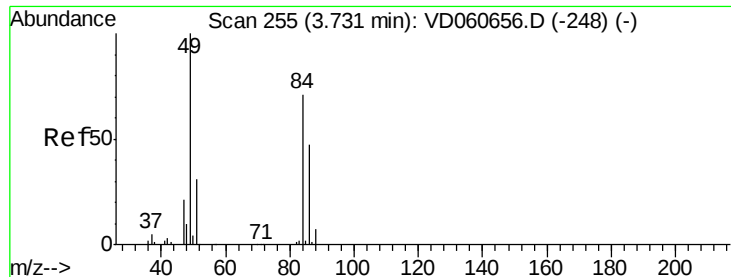
43 100

58 4.2 18.2 27.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

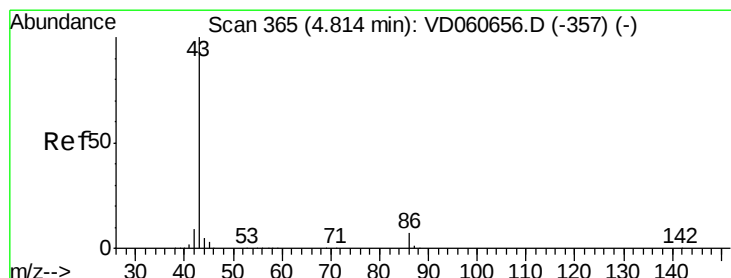
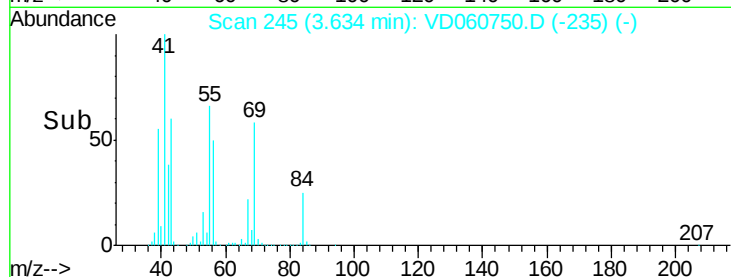
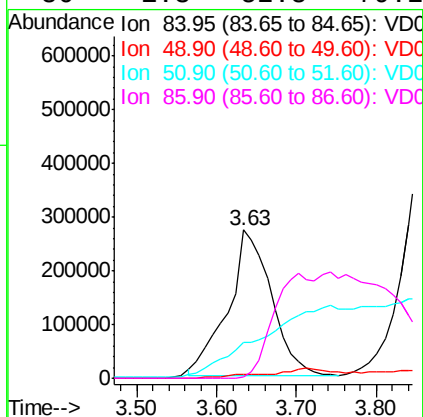
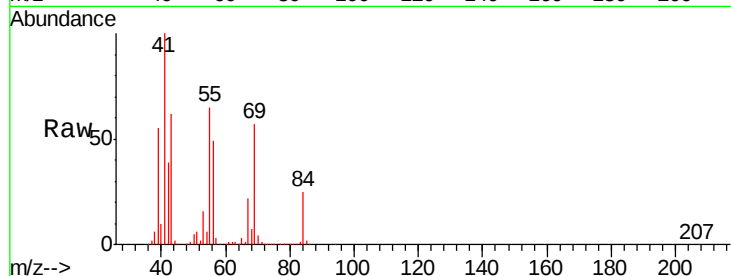




#20
Methylene Chloride
Concen: 240.207 ug/l
RT: 3.63 min Scan# 245
Delta R.T. -0.10 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

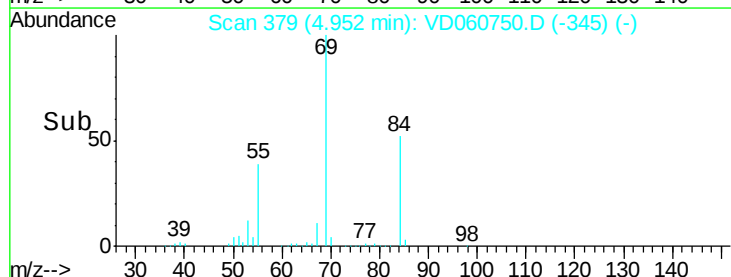
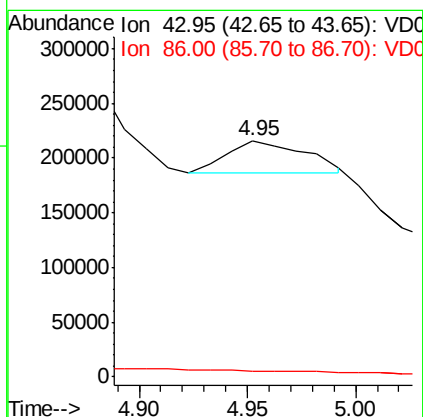
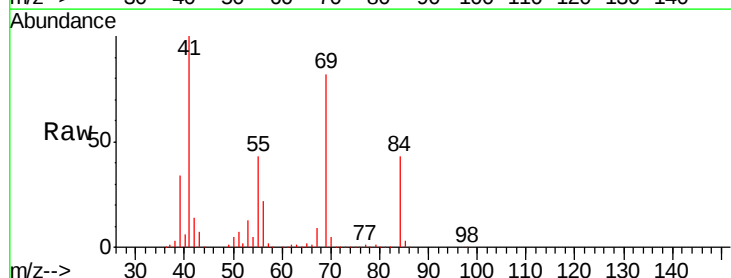
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

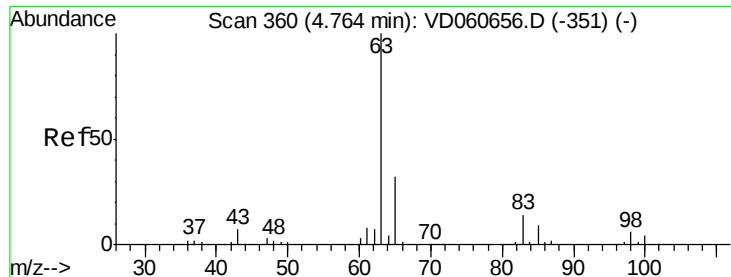
Tgt Ion: 84 Resp: 1016113
Ion Ratio Lower Upper
84 100
49 2.7 113.6 170.4#
51 24.4 34.7 52.1#
86 1.3 52.8 79.2#



#23
Vinyl Acetate
Concen: 12.821 ug/l
RT: 4.95 min Scan# 379
Delta R.T. 0.14 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 43 Resp: 72191
Ion Ratio Lower Upper
43 100
86 2.6 5.6 8.4#





#24

1,1-Dichloroethane

Concen: 46.451 ug/l

RT: 4.85 min Scan# 369

Delta R.T. 0.09 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

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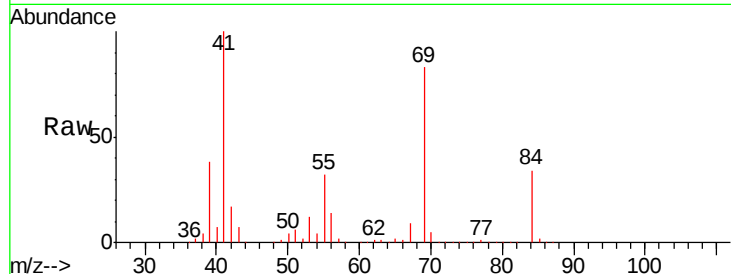
Tgt Ion: 63 Resp: 284347

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.7#

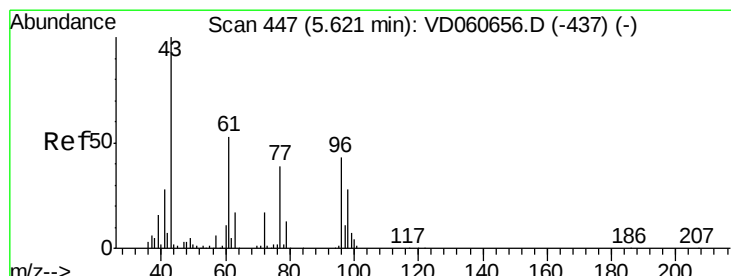
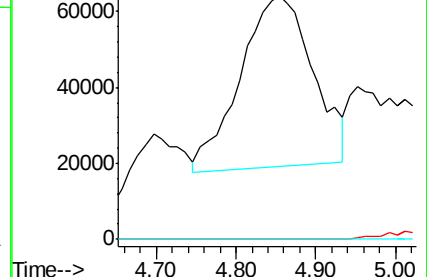
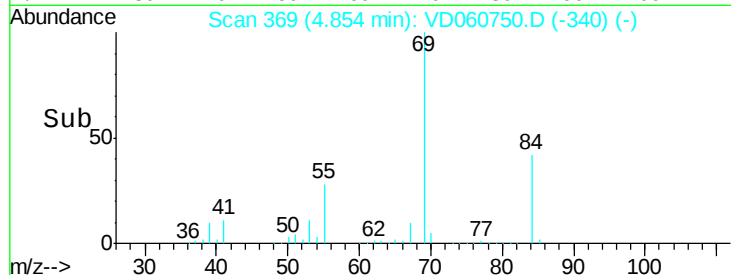
100 0.0 2.0 5.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC



#25

2-Butanone

Concen: 6799.383 ug/l

RT: 5.62 min Scan# 447

Delta R.T. 0.00 min

Lab File: VD060750.D

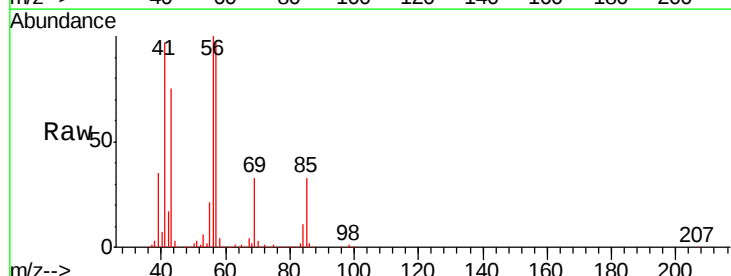
Acq: 28 Dec 2018 16:59

Tgt Ion: 43 Resp: 5299762

Ion Ratio Lower Upper

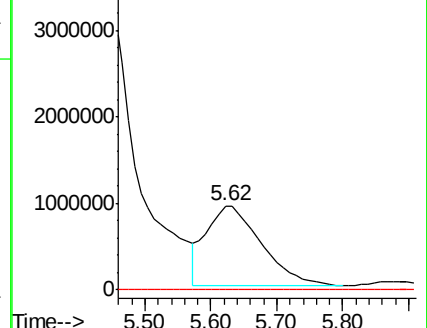
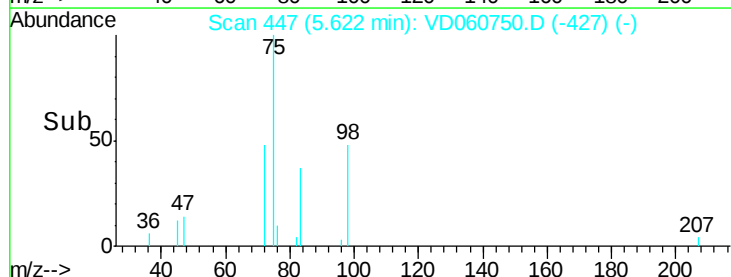
43 100

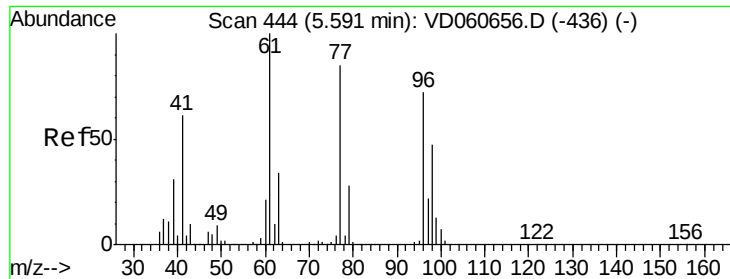
72 0.8 13.7 20.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 49.674 ug/l

RT: 5.49 min Scan# 434

Delta R.T. -0.10 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

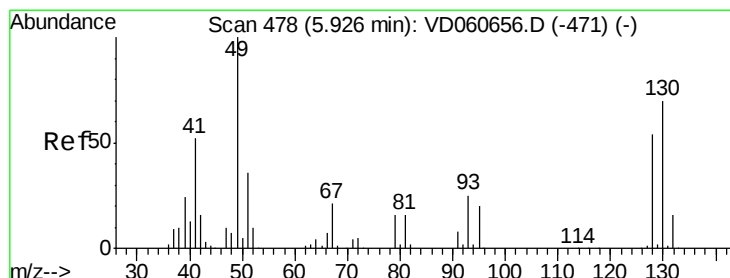
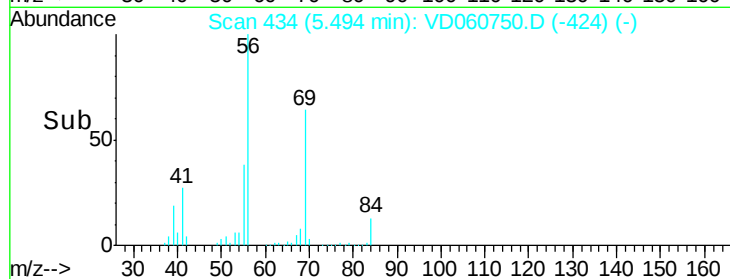
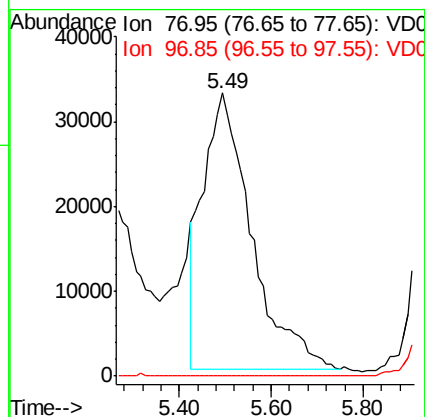
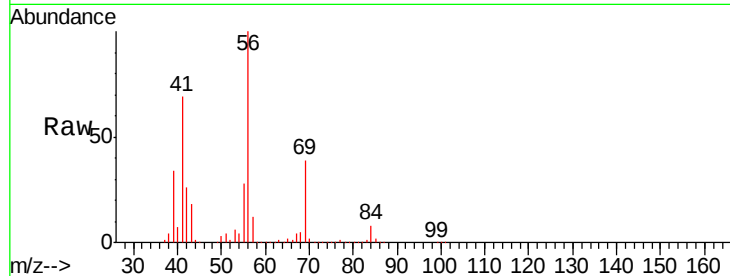
AOC2-06A

Tgt Ion: 77 Resp: 240028

Ion Ratio Lower Upper

77 100

97 0.0 13.0 39.0#



#28

Bromochloromethane

Concen: 6.876 ug/l

RT: 5.99 min Scan# 484

Delta R.T. 0.06 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

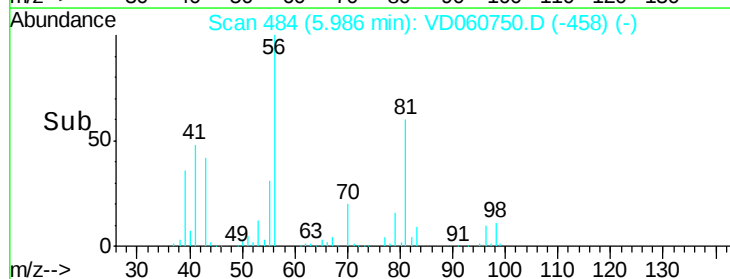
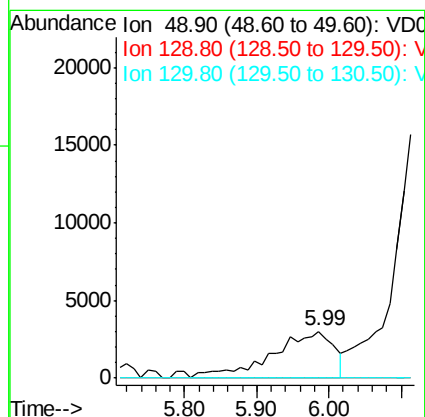
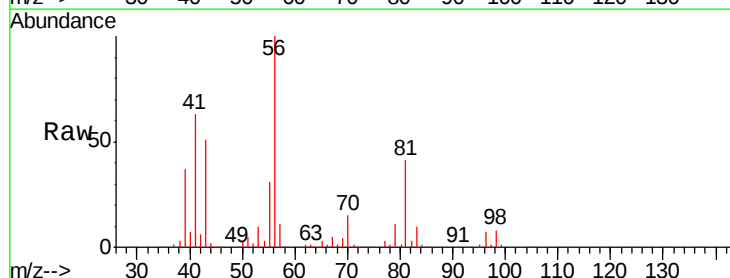
Tgt Ion: 49 Resp: 17782

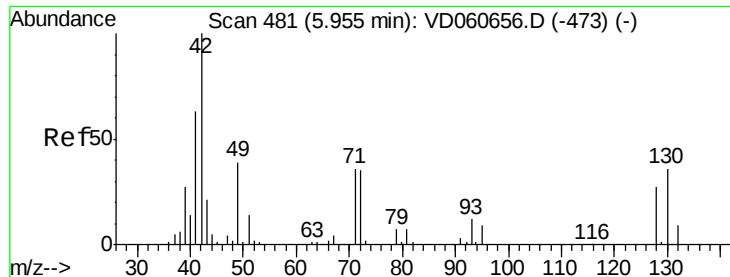
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 56.2 84.2#

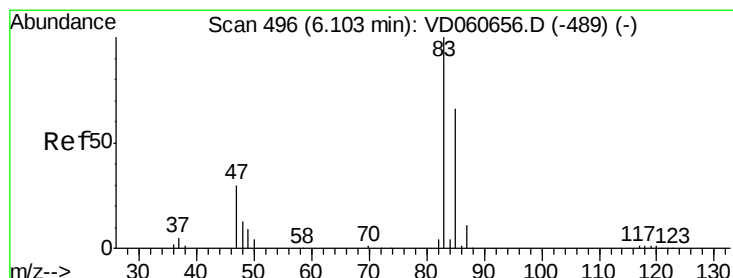
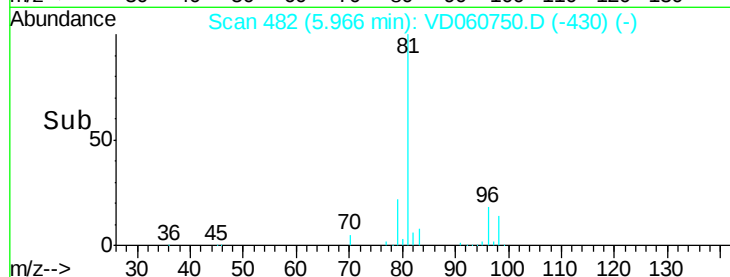
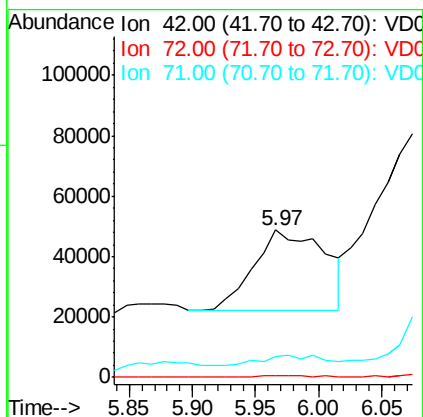
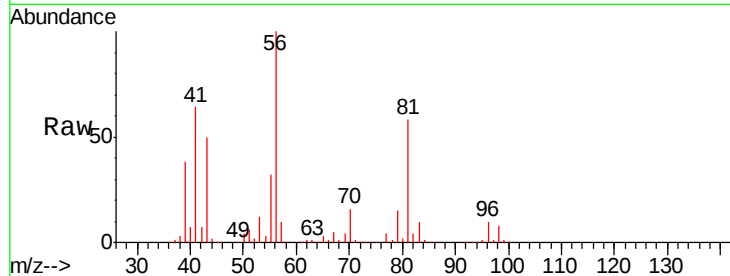




#29
Tetrahydrofuran
Concen: 239.967 ug/l
RT: 5.97 min Scan# 482
Delta R.T. 0.01 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

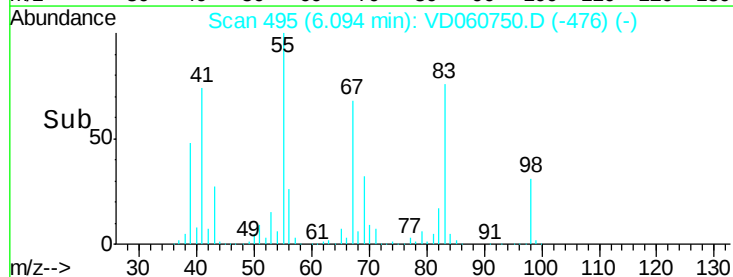
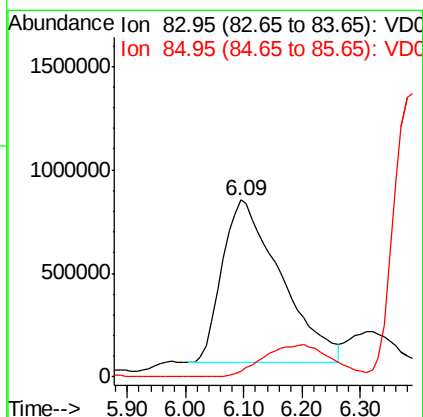
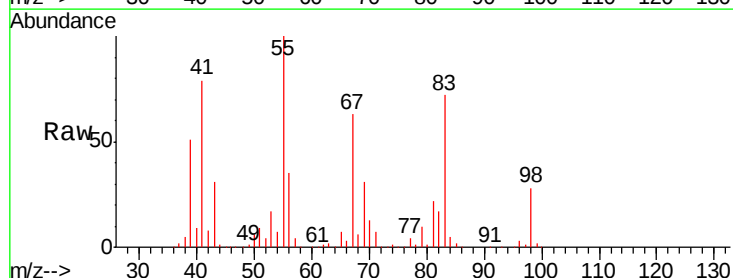
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

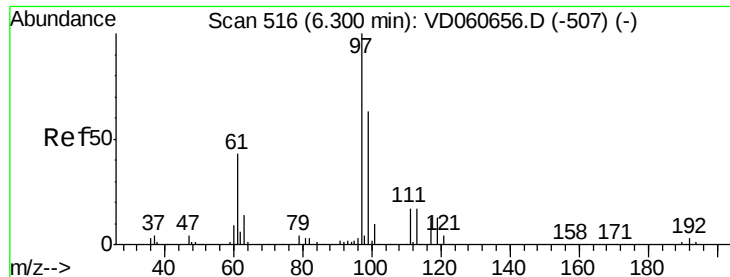
Tgt Ion: 42 Resp: 106034
Ion Ratio Lower Upper
42 100
72 0.0 28.0 42.0#
71 0.0 27.0 40.6#



#30
Chloroform
Concen: 892.355 ug/l
RT: 6.09 min Scan# 495
Delta R.T. -0.01 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 83 Resp: 5496617
Ion Ratio Lower Upper
83 100
85 3.0 53.0 79.6#





#32

1,1,1-Trichloroethane

Concen: 1.139 ug/l

RT: 6.31 min Scan# 517

Delta R.T. 0.01 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

AOC2-06A

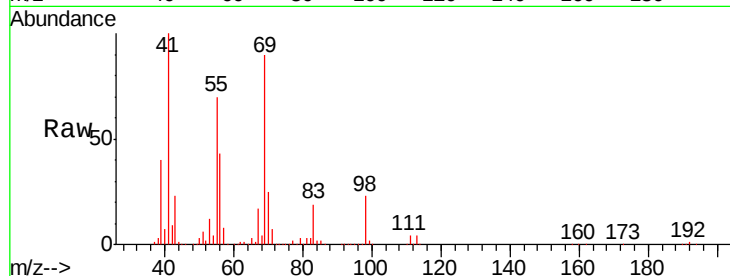
Tgt Ion: 97 Resp: 5804

Ion Ratio Lower Upper

97 100

99 392.5 50.5 75.7#

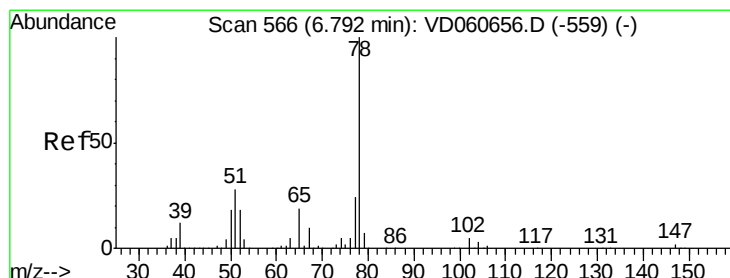
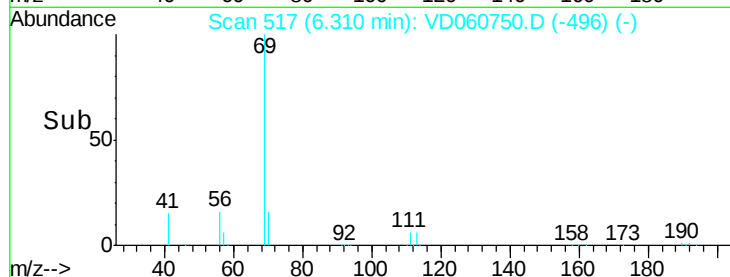
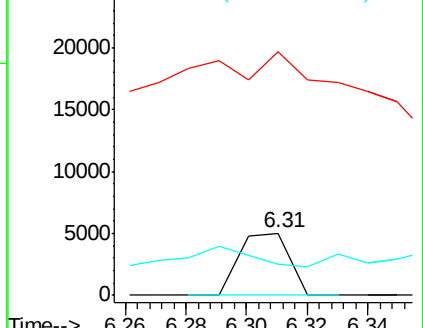
61 50.2 34.6 51.8



Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 1.139 ug/l

RT: 6.82 min Scan# 569

Delta R.T. 0.03 min

Lab File: VD060750.D

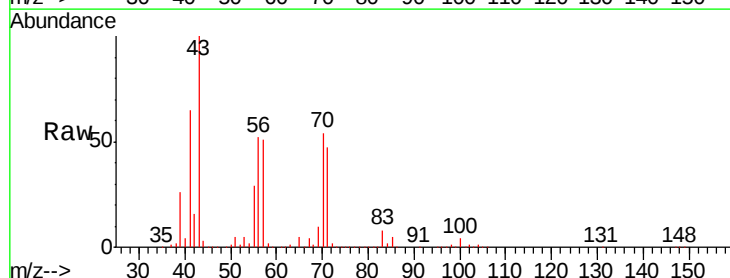
Acq: 28 Dec 2018 16:59

Tgt Ion: 65 Resp: 336622

Ion Ratio Lower Upper

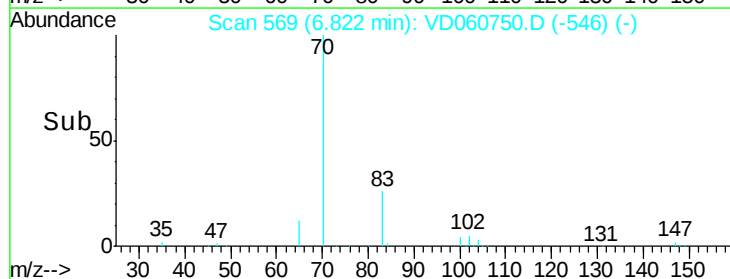
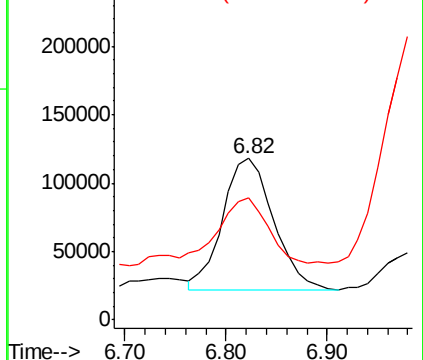
65 100

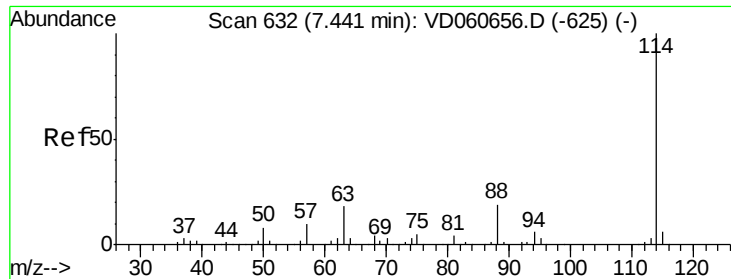
67 75.7 0.0 105.4



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: 7.48 min Scan# 636

Delta R.T. 0.04 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

AOC2-06A

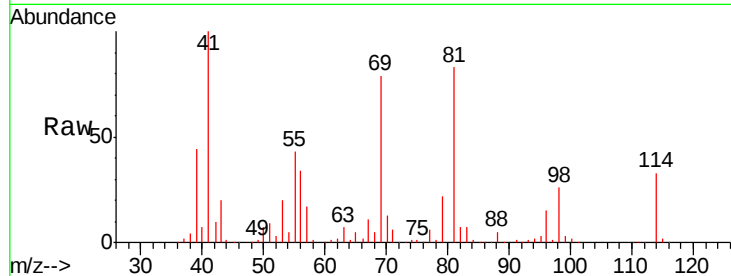
Tgt Ion:114 Resp: 1369941

Ion Ratio Lower Upper

114 100

63 22.8 0.0 36.2

88 16.4 0.0 37.0

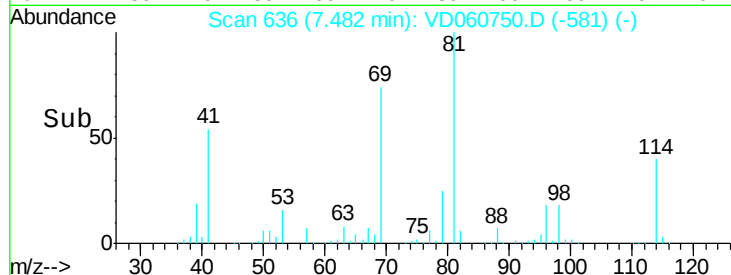


Abundance Ion 114.00 (113.70 to 114.70): V

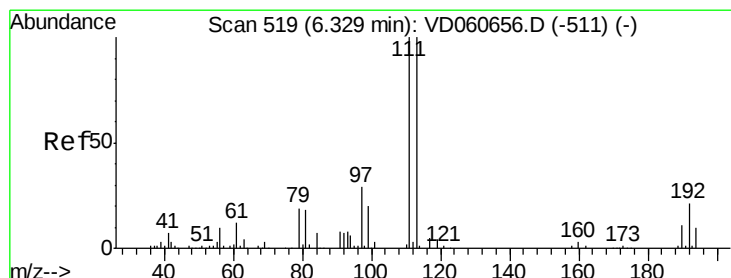
Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.35 min Scan# 521

Delta R.T. 0.02 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

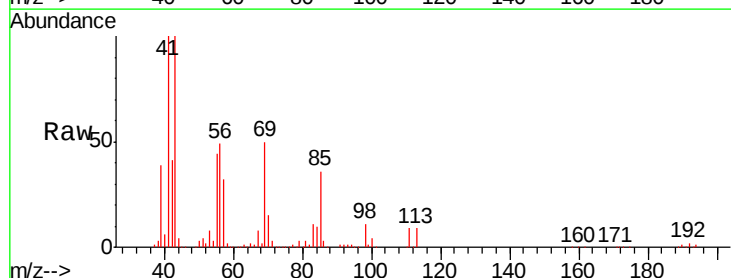
Tgt Ion:113 Resp: 515569

Ion Ratio Lower Upper

113 100

111 101.5 80.0 120.0

192 20.4 16.6 25.0

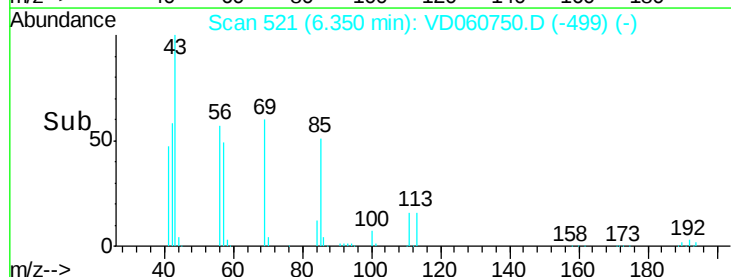


Abundance Ion 112.90 (112.60 to 113.60): V

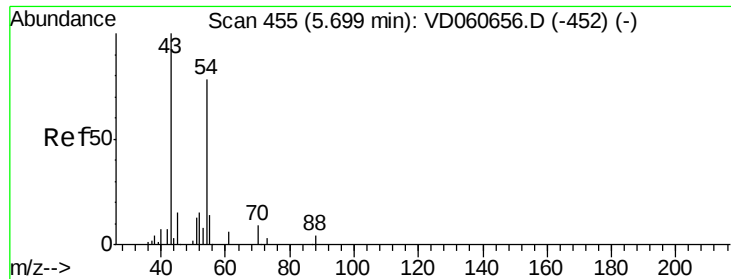
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

Time-->



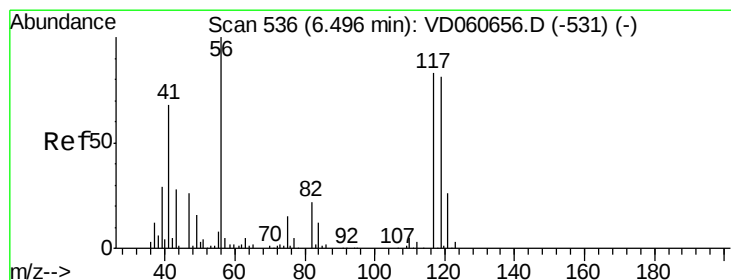
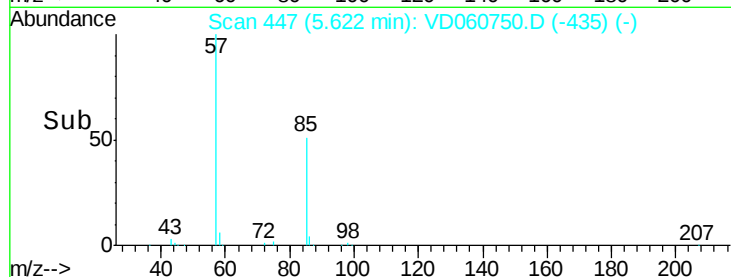
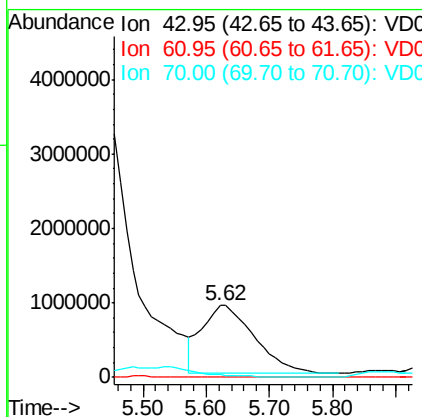
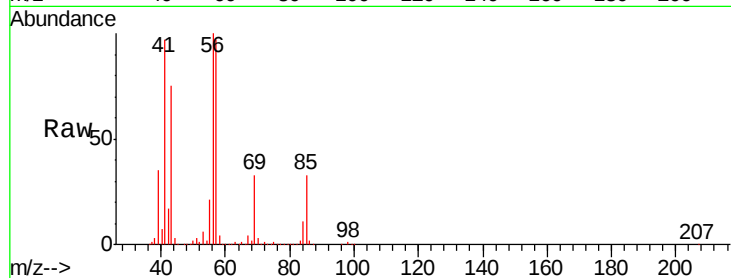
Time-->



#37
Ethyl Acetate
Concen: 900.912 ug/l
RT: 5.62 min Scan# 447
Delta R.T. -0.08 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

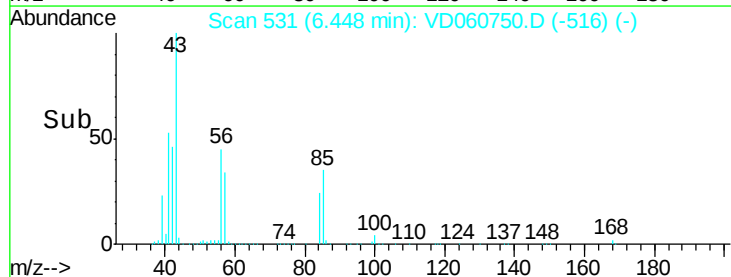
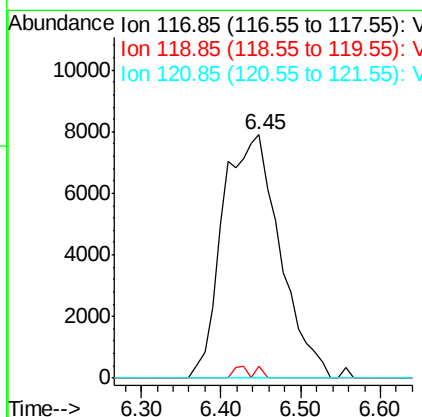
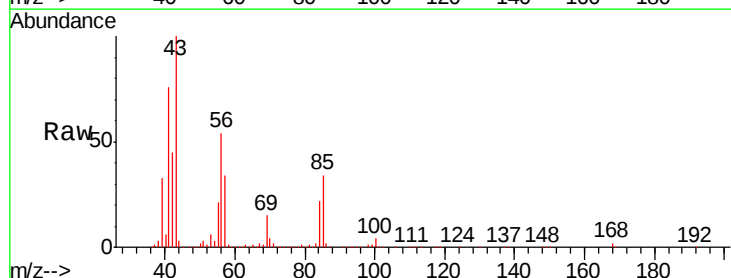
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

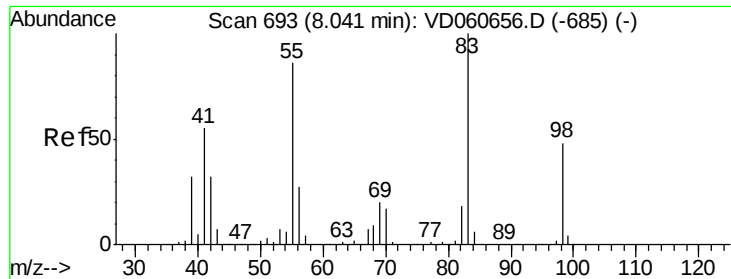
Tgt Ion: 43 Resp: 5315183
Ion Ratio Lower Upper
43 100
61 0.3 11.8 17.6#
70 3.7 5.8 8.6#



#38
Carbon Tetrachloride
Concen: 3.162 ug/l
RT: 6.45 min Scan# 531
Delta R.T. -0.05 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 117 Resp: 39349
Ion Ratio Lower Upper
117 100
119 5.2 77.0 115.4#
121 0.0 24.7 37.1#

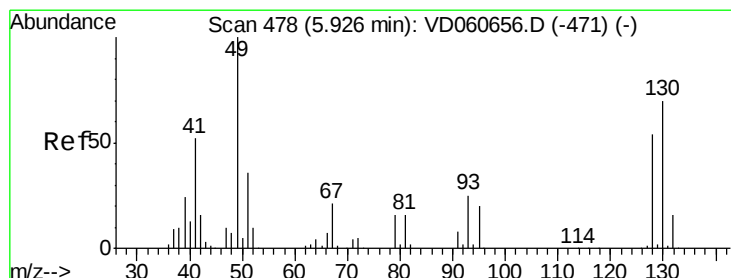
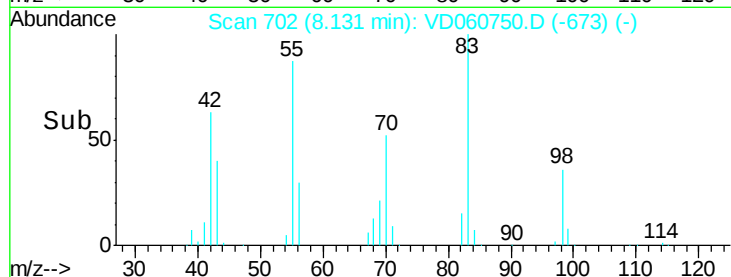
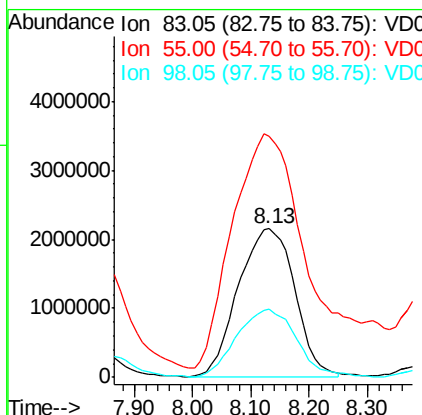
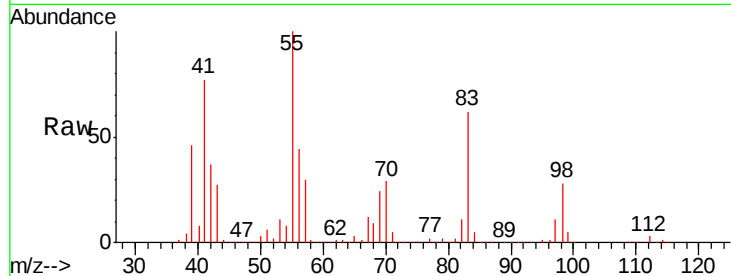




#39
Methylcyclohexane
Concen: 898.499 ug/l
RT: 8.13 min Scan# 702
Delta R.T. 0.09 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

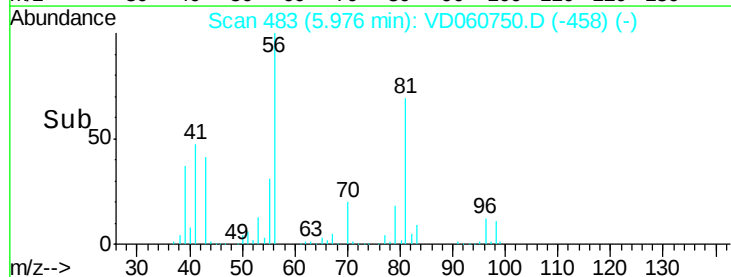
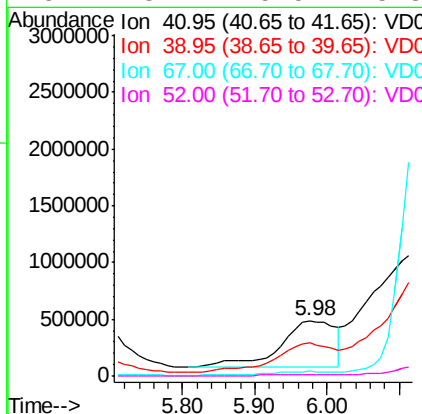
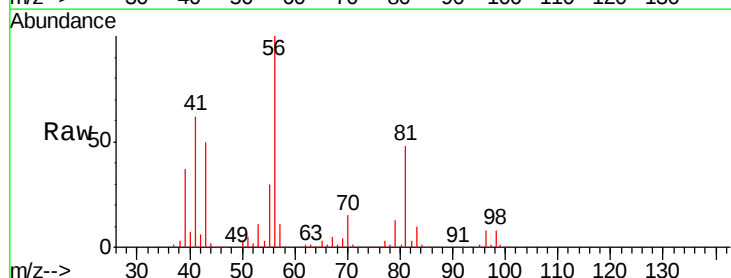
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

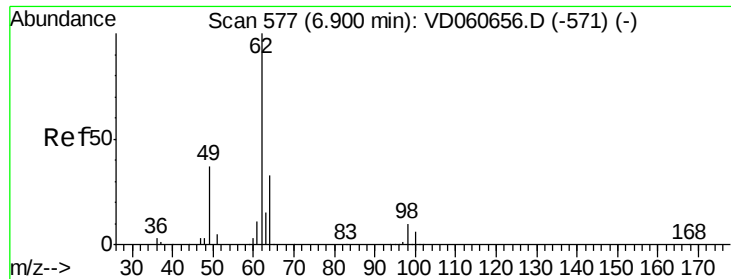
Tgt Ion: 83 Resp:14455658
Ion Ratio Lower Upper
83 100
55 161.7 68.6 102.8#
98 45.7 38.1 57.1



#41
Methacrylonitrile
Concen: 687.027 ug/l
RT: 5.98 min Scan# 483
Delta R.T. 0.05 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 41 Resp: 2242023
Ion Ratio Lower Upper
41 100
39 59.7 37.6 56.4#
67 8.2 33.0 49.6#
52 3.1 15.5 23.3#





#42

1,2-Dichloroethane

Concen: 6.528 ug/l

RT: 7.04 min Scan# 591

Delta R.T. 0.14 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

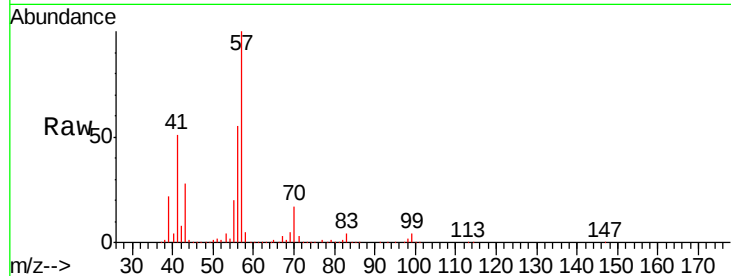
AOC2-06A

Tgt Ion: 62 Resp: 59031

Ion Ratio Lower Upper

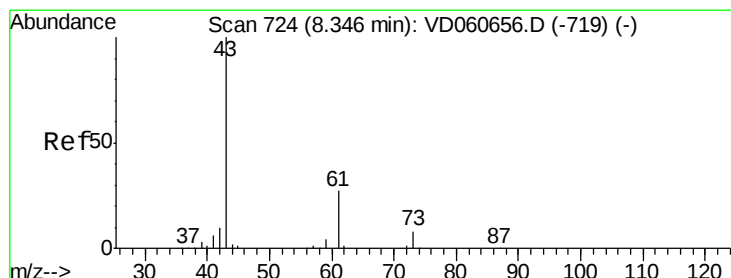
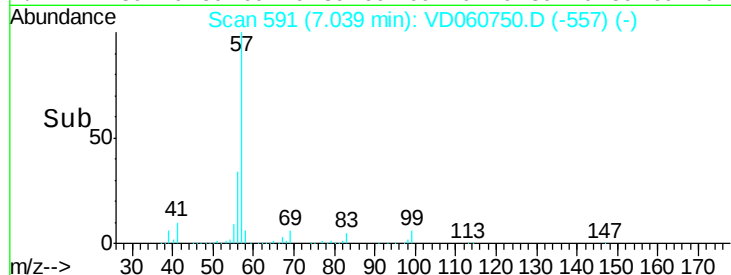
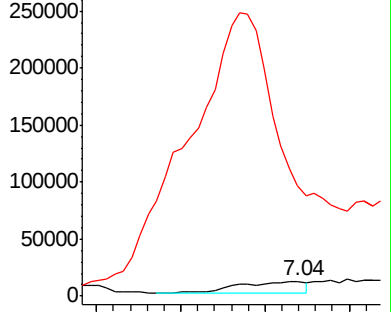
62 100

98 758.2 0.0 20.4#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#43

Isopropyl Acetate

Concen: 420.396 ug/l

RT: 8.50 min Scan# 739

Delta R.T. 0.15 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

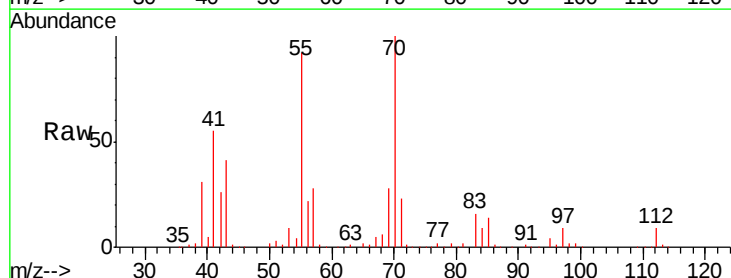
Tgt Ion: 43 Resp: 3182832

Ion Ratio Lower Upper

43 100

61 0.3 21.8 32.8#

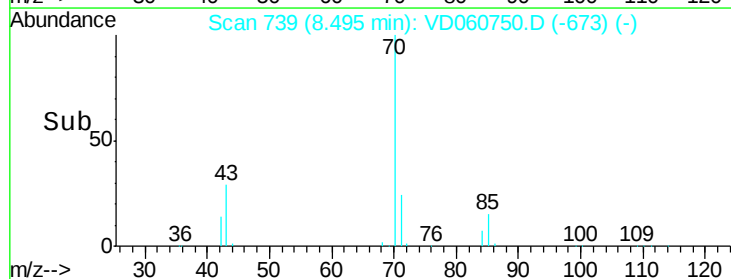
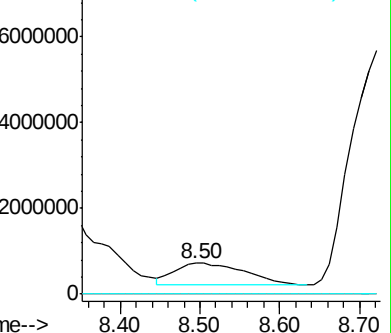
87 0.1 0.2 0.4#

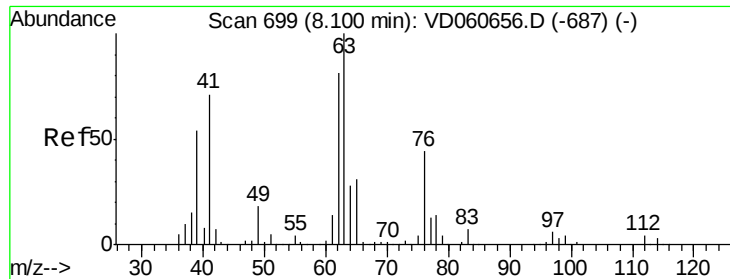


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC





#45

1,2-Dichloropropane

Concen: 49.468 ug/l

RT: 8.12 min Scan# 701

Delta R.T. 0.02 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

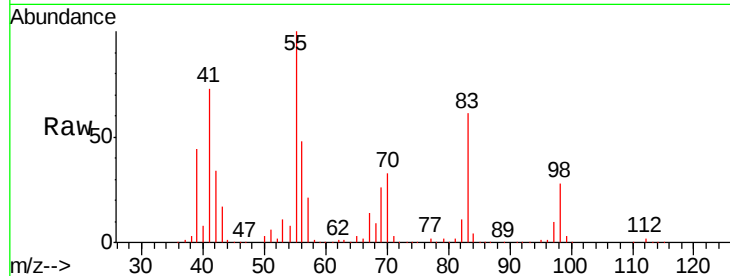
AOC2-06A

Tgt Ion: 63 Resp: 442048

Ion Ratio Lower Upper

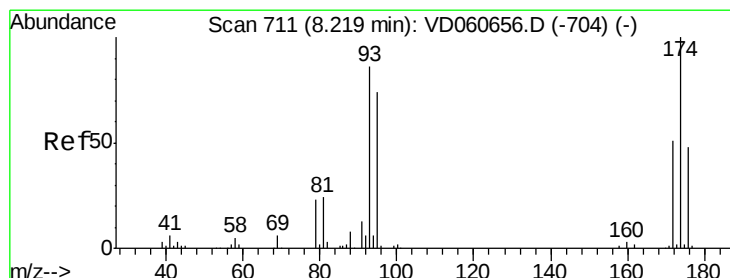
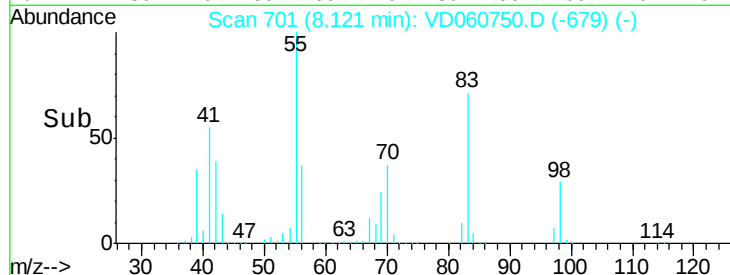
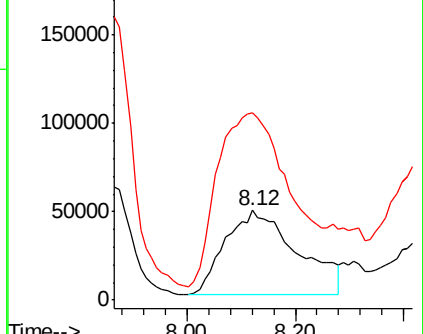
63 100

65 209.8 25.0 37.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 11.785 ug/l

RT: 8.21 min Scan# 710

Delta R.T. -0.01 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

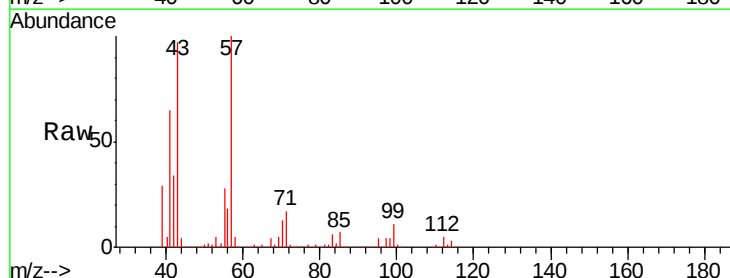
Tgt Ion: 93 Resp: 60104

Ion Ratio Lower Upper

93 100

95 1393.2 68.8 103.2#

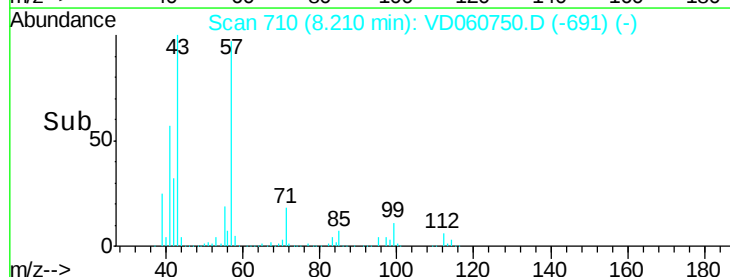
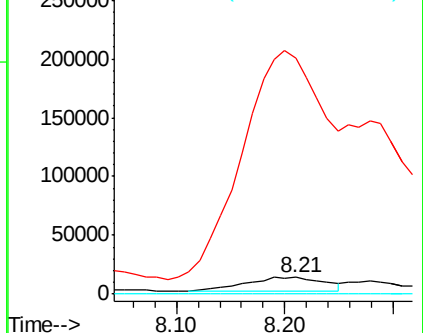
174 0.0 93.0 139.4#

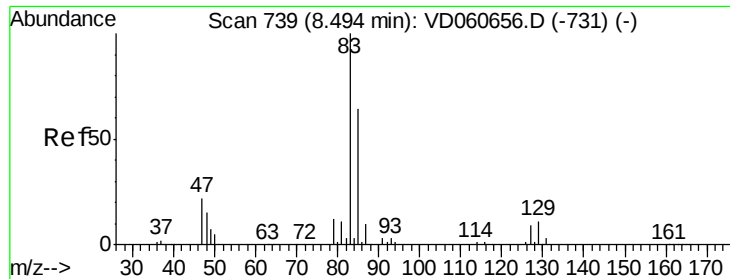


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 419.813 ug/l

RT: 8.61 min Scan# 751

Delta R.T. 0.12 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampled :

AOC2-06A

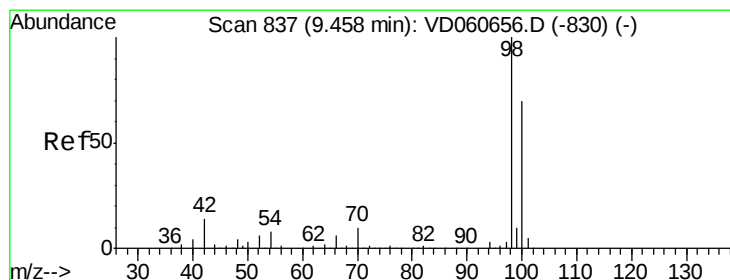
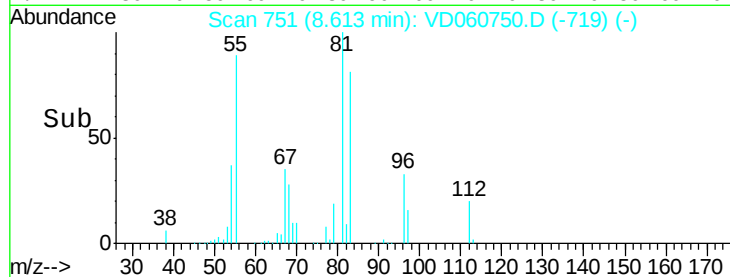
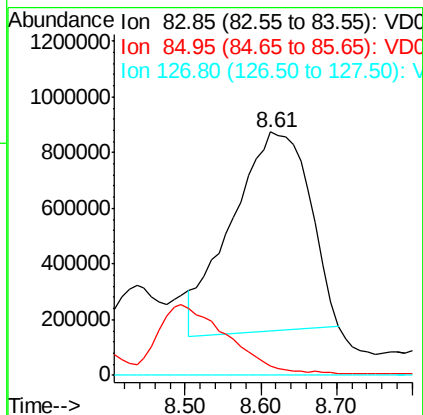
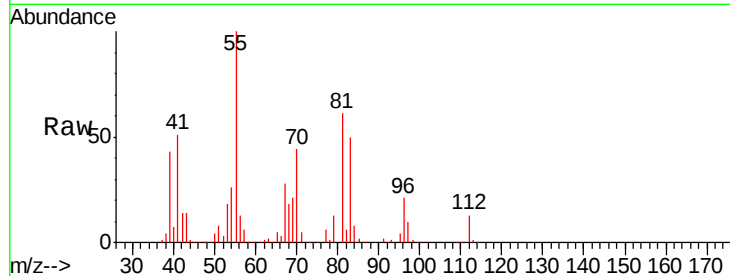
Tgt Ion: 83 Resp: 5071212

Ion Ratio Lower Upper

83 100

85 3.9 51.1 76.7#

127 0.0 7.0 10.6#



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.52 min Scan# 843

Delta R.T. 0.06 min

Lab File: VD060750.D

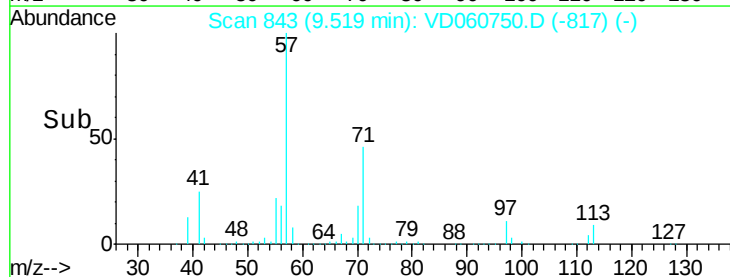
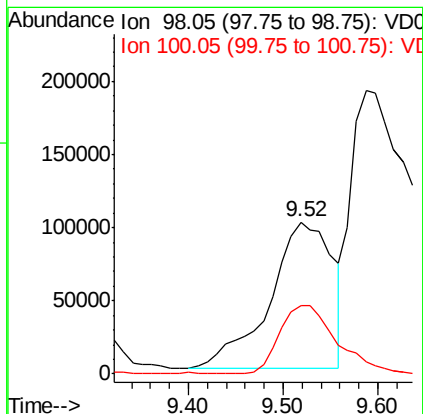
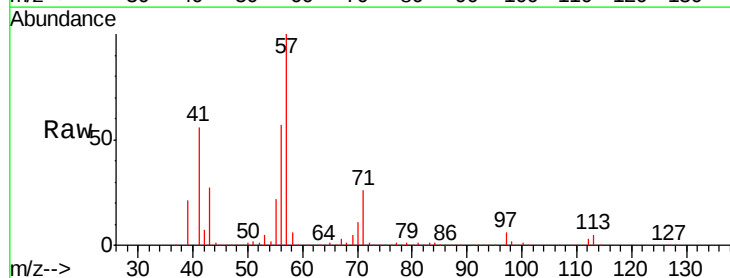
Acq: 28 Dec 2018 16:59

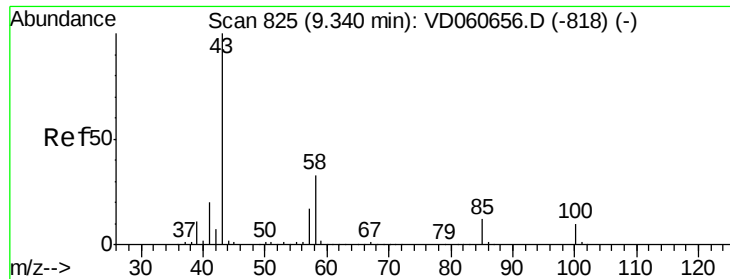
Tgt Ion: 98 Resp: 463082

Ion Ratio Lower Upper

98 100

100 44.9 55.8 83.8#





#51

4-Methyl-2-Pentanone

Concen: 6488.837 ug/l

RT: 9.31 min Scan# 822

Delta R.T. -0.03 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

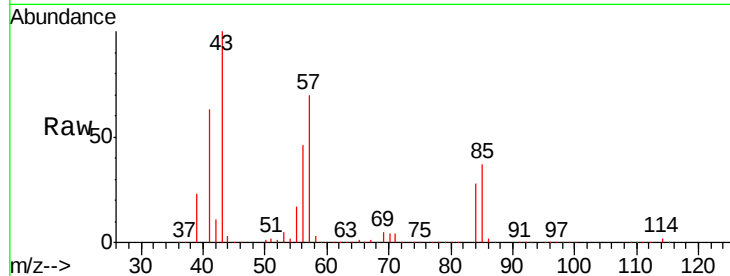
AOC2-06A

Tgt Ion: 43 Resp:30098912

Ion Ratio Lower Upper

43 100

58 3.1 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

6000000

5000000

4000000

3000000

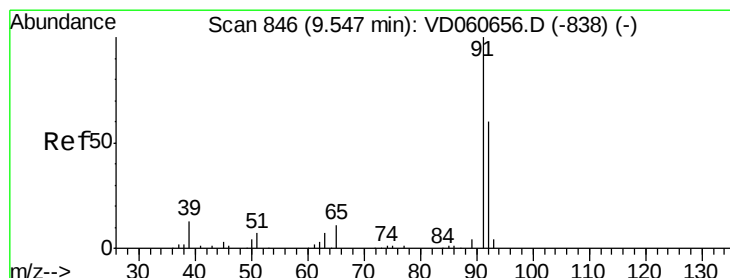
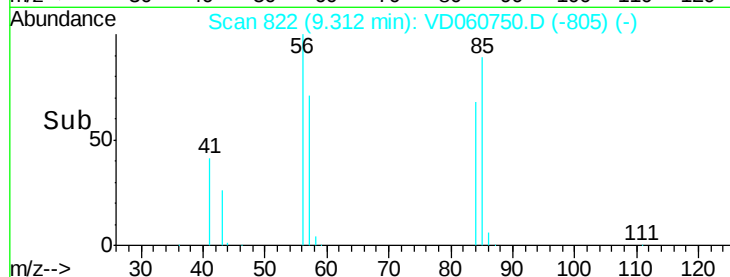
2000000

1000000

0

9.20 9.30 9.40

Time-->



#52

Toluene

Concen: 4.760 ug/l

RT: 9.65 min Scan# 856

Delta R.T. 0.10 min

Lab File: VD060750.D

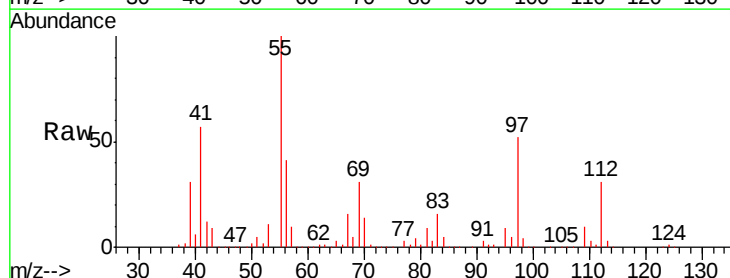
Acq: 28 Dec 2018 16:59

Tgt Ion: 92 Resp: 108729

Ion Ratio Lower Upper

92 100

91 278.5 132.6 199.0#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

80000

60000

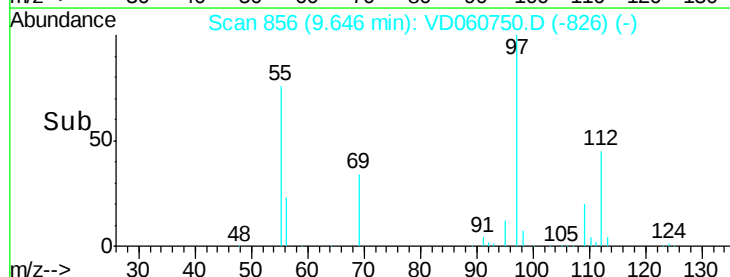
40000

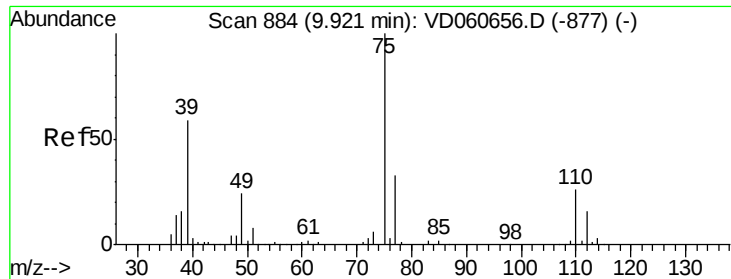
20000

0

9.50 9.60 9.70

Time-->

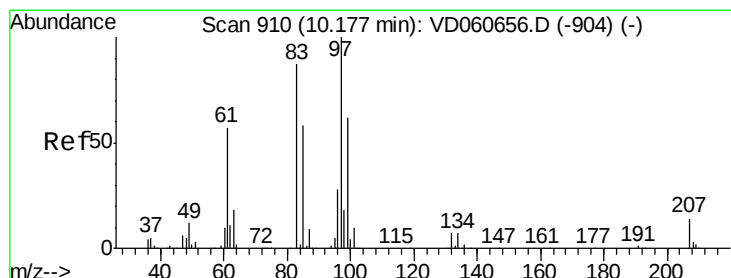
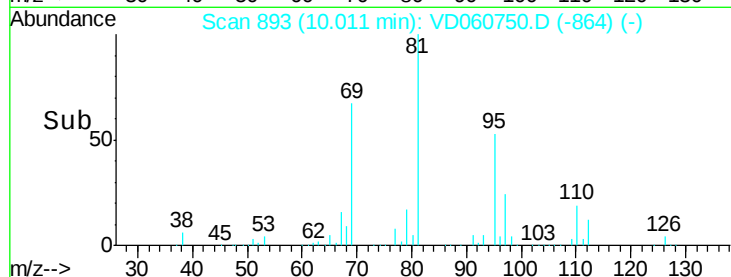
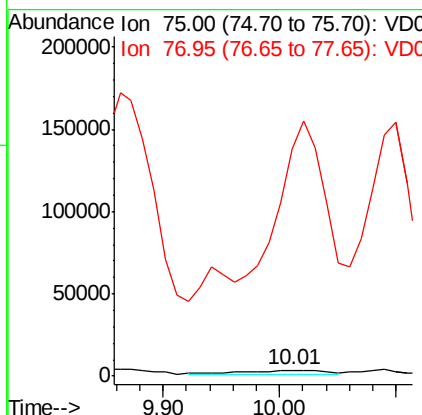
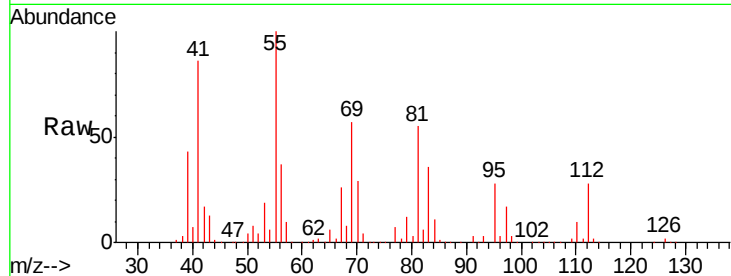




#53
t-1,3-Dichloropropene
Concen: 1.201 ug/l
RT: 10.01 min Scan# 893
Delta R.T. 0.09 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

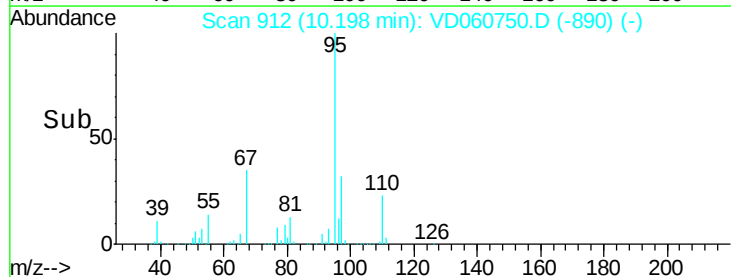
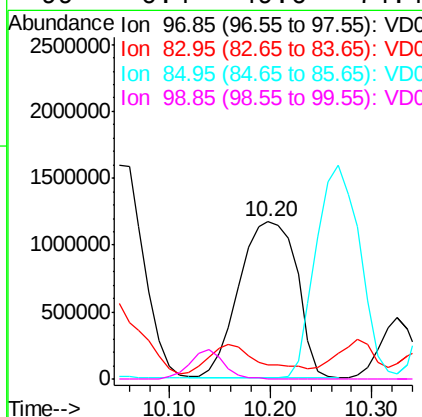
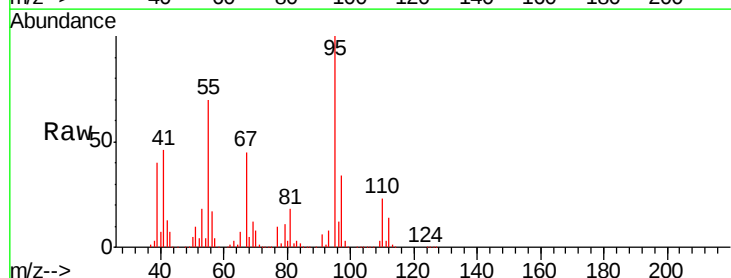
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

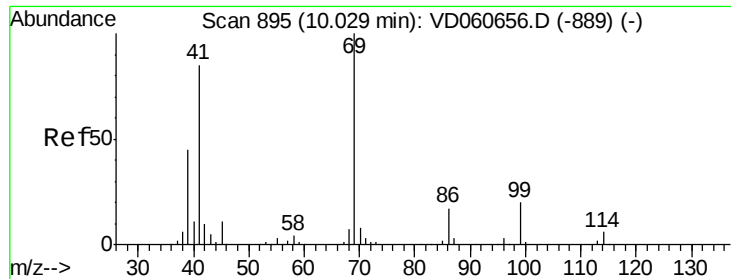
Tgt Ion: 75 Resp: 12102
Ion Ratio Lower Upper
75 100
77 3621.3 26.0 39.0#



#55
1,1,2-Trichloroethane
Concen: 752.198 ug/l
RT: 10.20 min Scan# 912
Delta R.T. 0.02 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 97 Resp: 4623085
Ion Ratio Lower Upper
97 100
83 9.3 70.0 105.0#
85 0.6 46.6 70.0#
99 0.4 49.6 74.4#





#56

Ethyl methacrylate

Concen: 380.456 ug/l

RT: 10.16 min Scan# 908

Delta R.T. 0.13 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

AOC2-06A

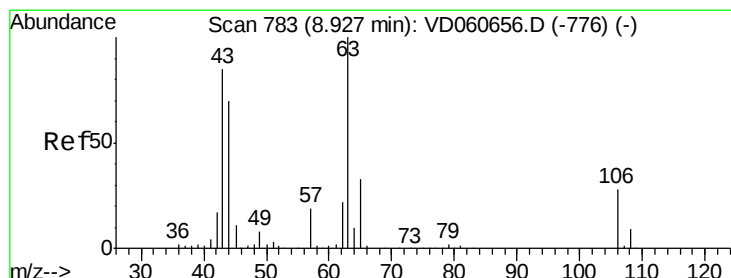
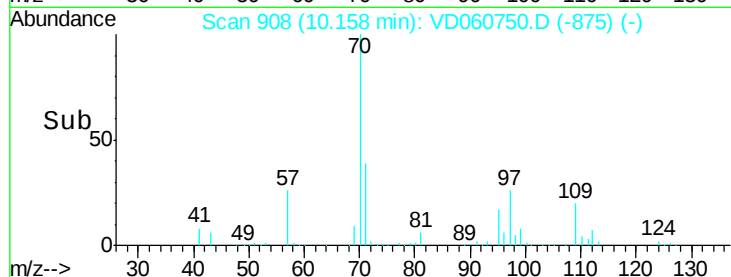
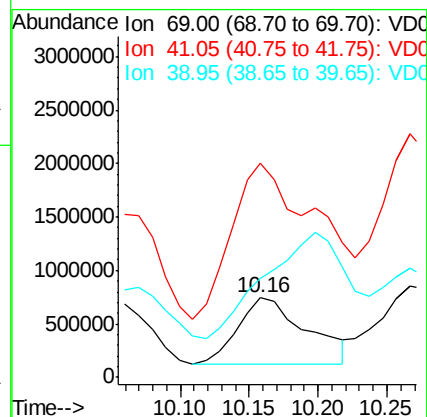
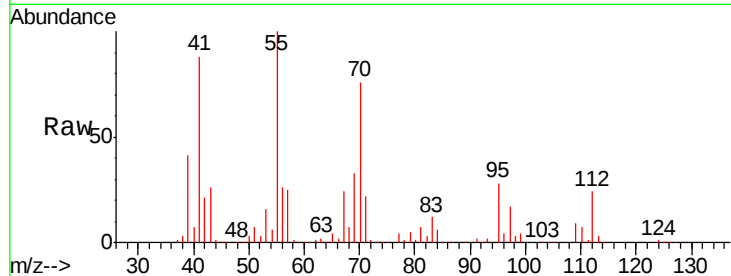
Tgt Ion: 69 Resp: 2171895

Ion Ratio Lower Upper

69 100

41 269.4 68.3 102.5#

39 124.5 37.2 55.8#



#58

2-Chloroethyl Vinyl ether

Concen: 51.974 ug/l

RT: 8.93 min Scan# 783

Delta R.T. 0.00 min

Lab File: VD060750.D

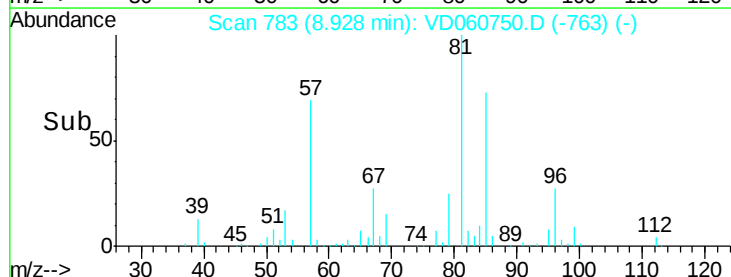
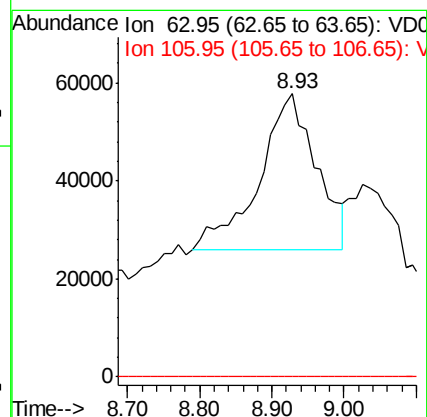
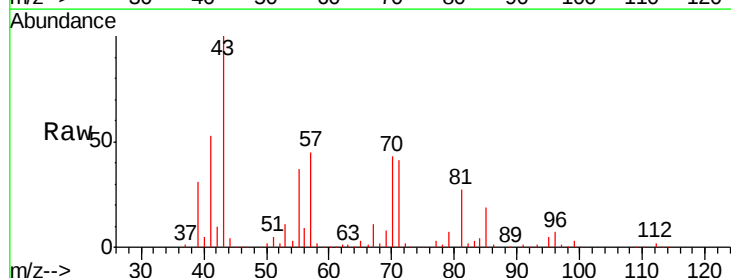
Acq: 28 Dec 2018 16:59

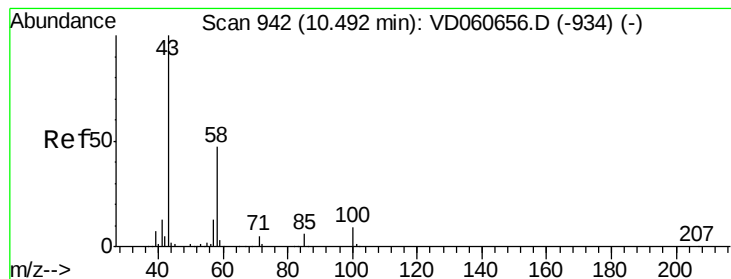
Tgt Ion: 63 Resp: 174823

Ion Ratio Lower Upper

63 100

106 0.0 22.4 33.6#





#59

2-Hexanone

Concen: 2882.457 ug/l

RT: 10.51 min Scan# 944

Delta R.T. 0.02 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

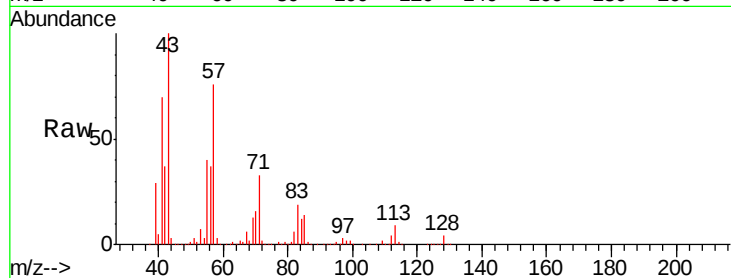
AOC2-06A

Tgt Ion: 43 Resp: 9358841

Ion Ratio Lower Upper

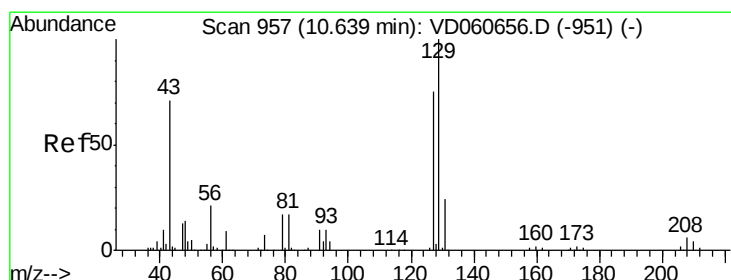
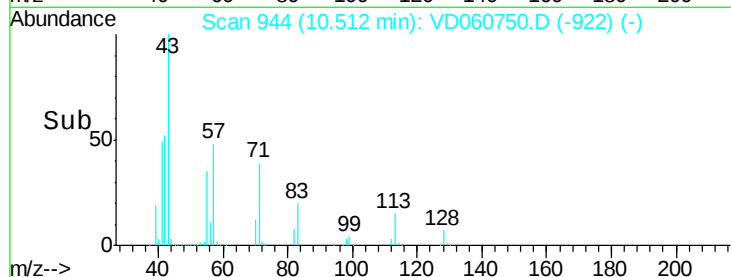
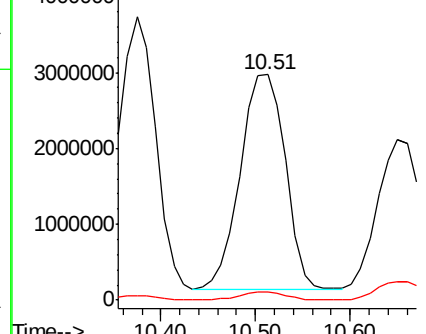
43 100

58 3.4 23.5 70.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 3.143 ug/l

RT: 10.65 min Scan# 958

Delta R.T. 0.01 min

Lab File: VD060750.D

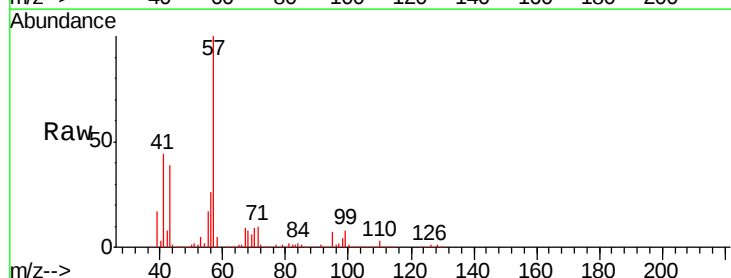
Acq: 28 Dec 2018 16:59

Tgt Ion: 129 Resp: 24602

Ion Ratio Lower Upper

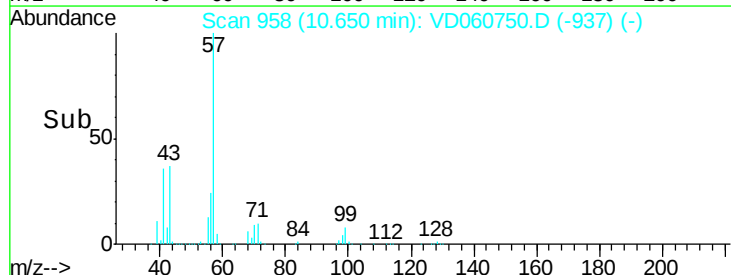
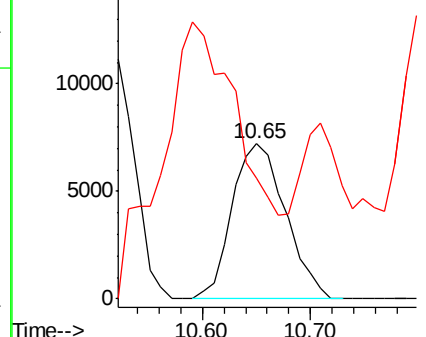
129 100

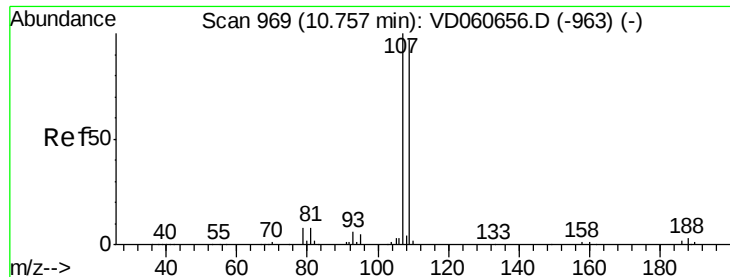
127 78.1 37.6 112.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 11.956 ug/l

RT: 10.82 min Scan# 975

Delta R.T. 0.06 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

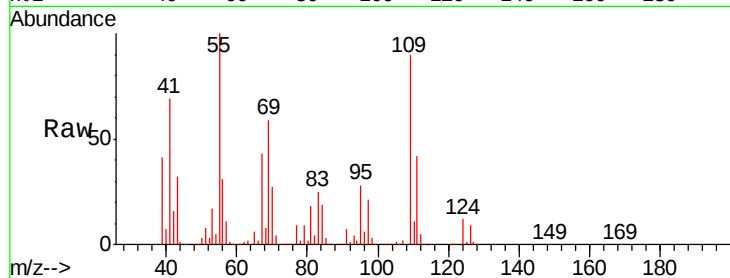
AOC2-06A

Tgt Ion: 107 Resp: 76217

Ion Ratio Lower Upper

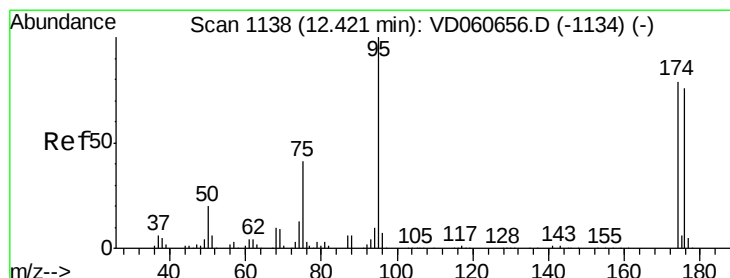
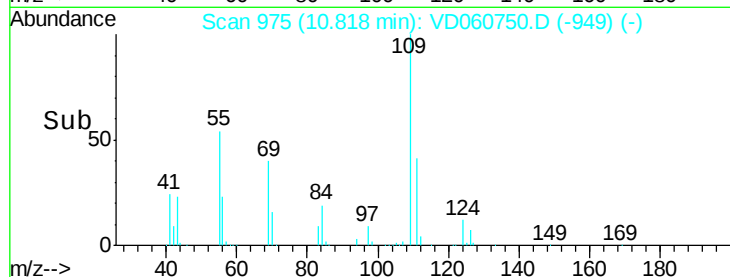
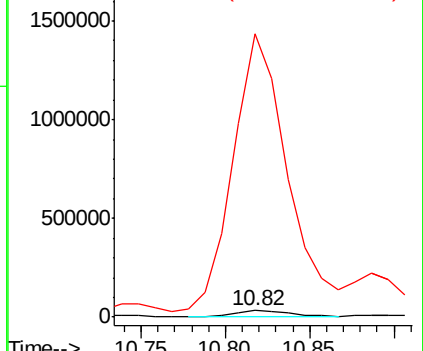
107 100

109 4122.8 78.0 117.0#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 11.956 ug/l

RT: 12.53 min Scan# 1149

Delta R.T. 0.11 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

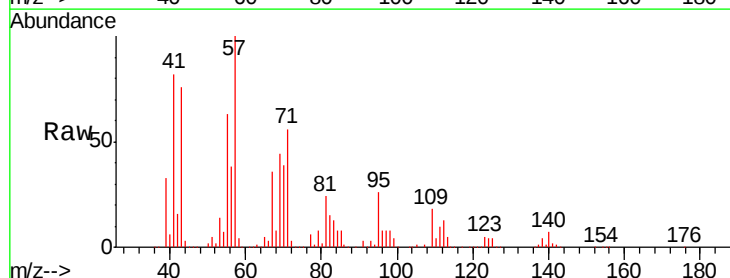
Tgt Ion: 95 Resp: 990276

Ion Ratio Lower Upper

95 100

174 0.0 0.0 158.2

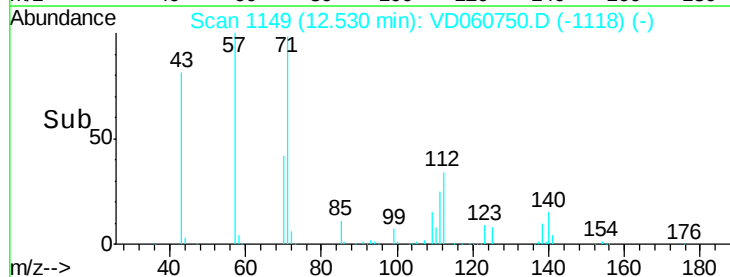
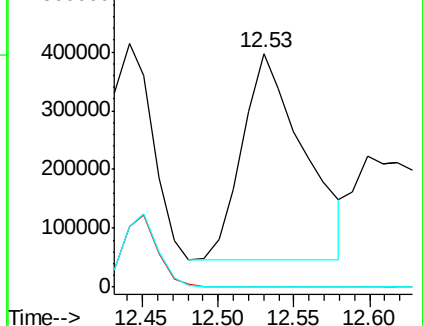
176 0.1 0.0 152.4

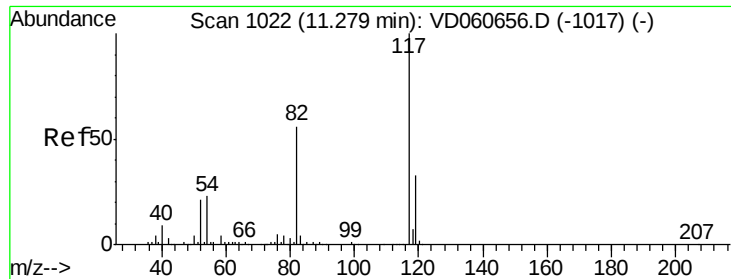


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

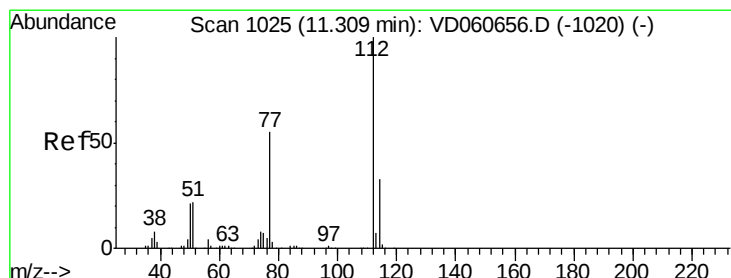
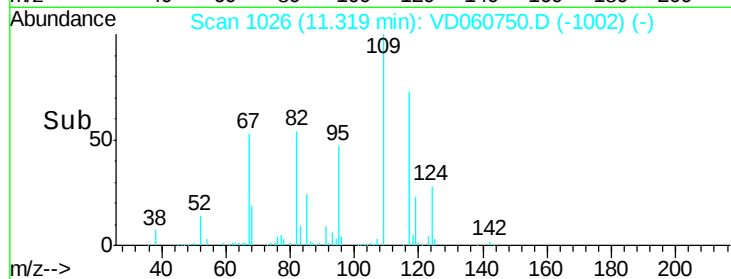
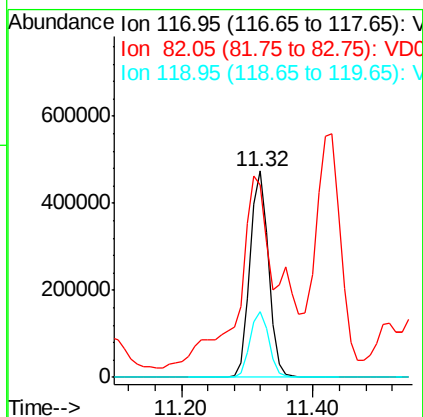
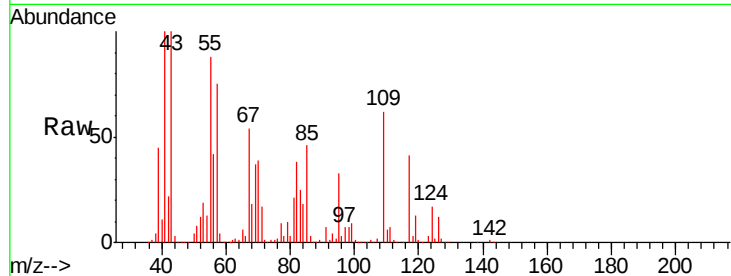




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.32 min Scan# 1026
Delta R.T. 0.04 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

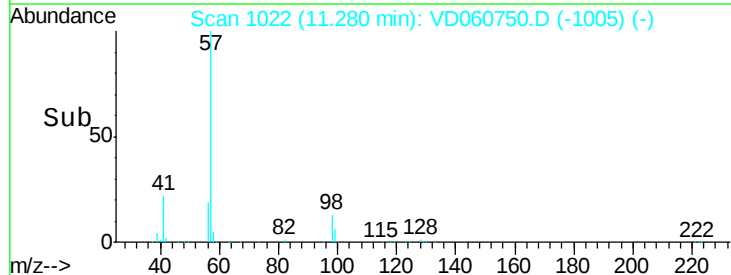
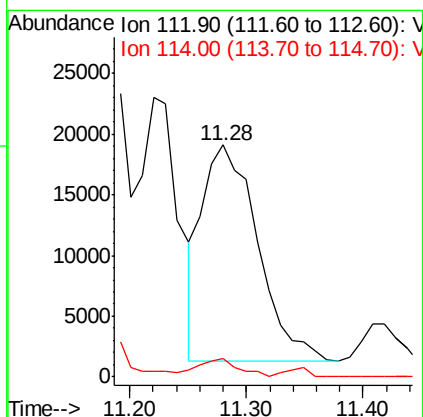
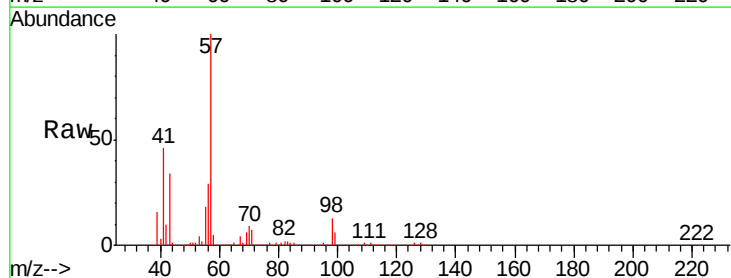
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

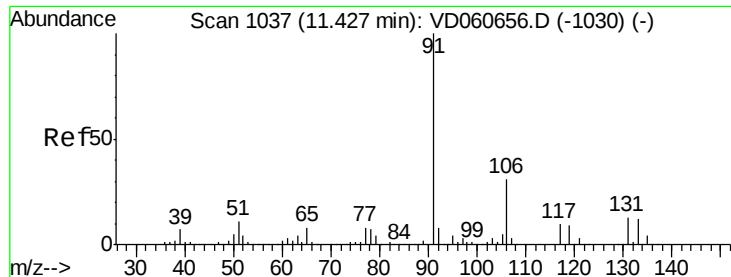
Tgt Ion:117 Resp: 943251
Ion Ratio Lower Upper
117 100
82 93.2 44.5 66.7#
119 32.0 26.3 39.5



#65
Chlorobenzene
Concen: 2.813 ug/l
RT: 11.28 min Scan# 1022
Delta R.T. -0.03 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion:112 Resp: 58622
Ion Ratio Lower Upper
112 100
114 7.7 26.1 39.1#





#67

Ethyl Benzene

Concen: 121.586 ug/l

RT: 11.47 min Scan# 1041

Delta R.T. 0.04 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

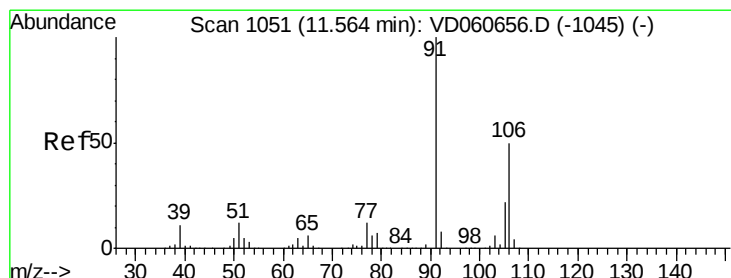
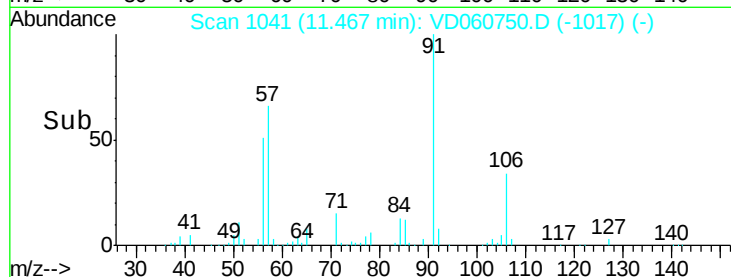
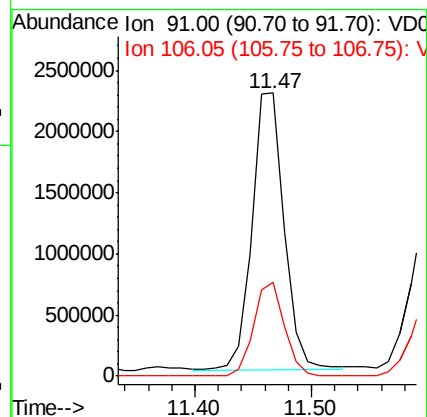
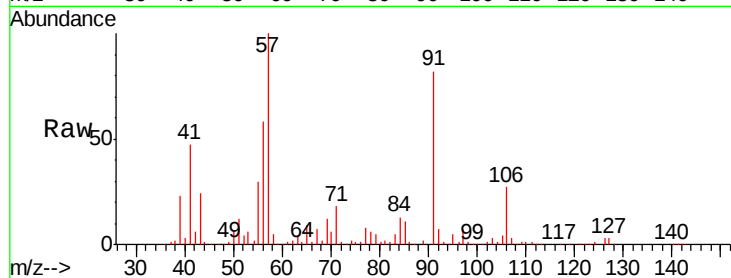
AOC2-06A

Tgt Ion: 91 Resp: 4339446

Ion Ratio Lower Upper

91 100

106 33.1 24.6 36.8



#68

m/p-Xylenes

Concen: 142.753 ug/l

RT: 11.60 min Scan# 1055

Delta R.T. 0.04 min

Lab File: VD060750.D

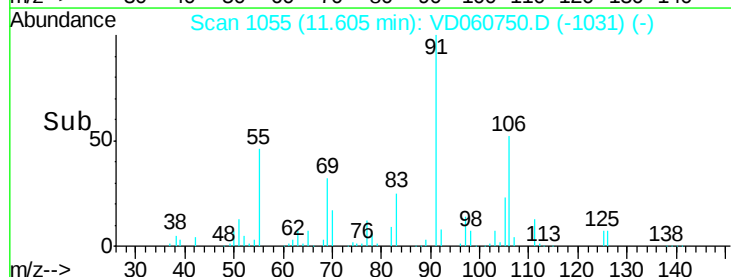
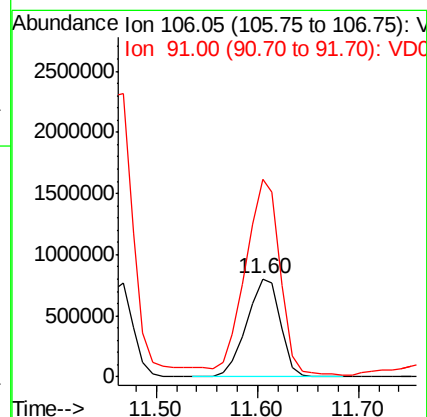
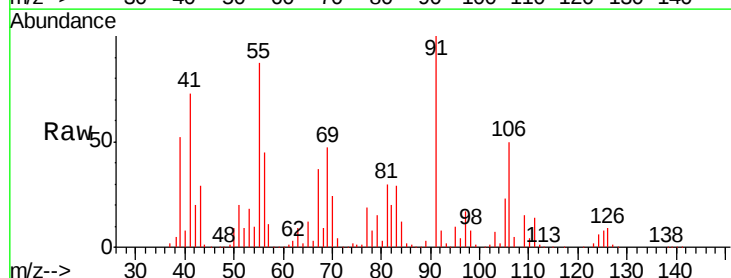
Acq: 28 Dec 2018 16:59

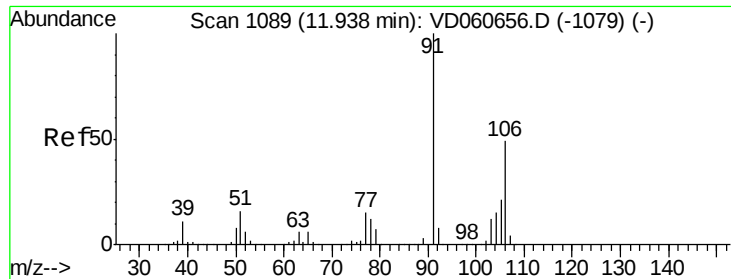
Tgt Ion: 106 Resp: 1861952

Ion Ratio Lower Upper

106 100

91 201.7 158.9 238.3

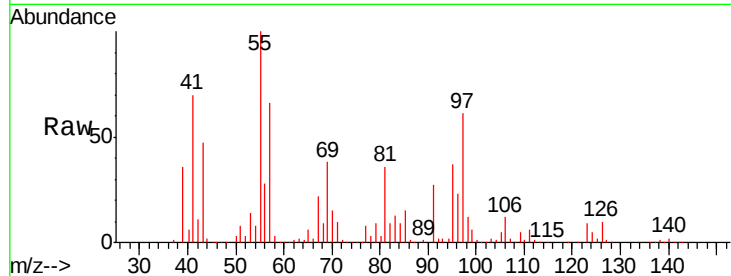




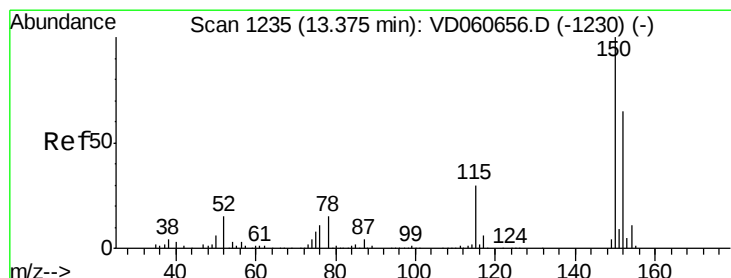
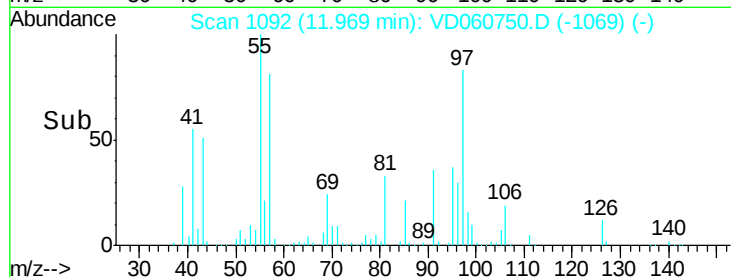
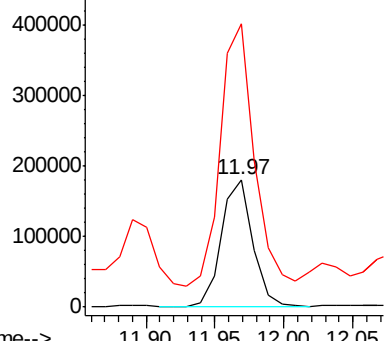
#69
o-Xylene
Concen: 22.893 ug/l
RT: 11.97 min Scan# 1092
Delta R.T. 0.03 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

Tgt Ion:106 Resp: 283292
Ion Ratio Lower Upper
106 100
91 222.5 101.5 304.5

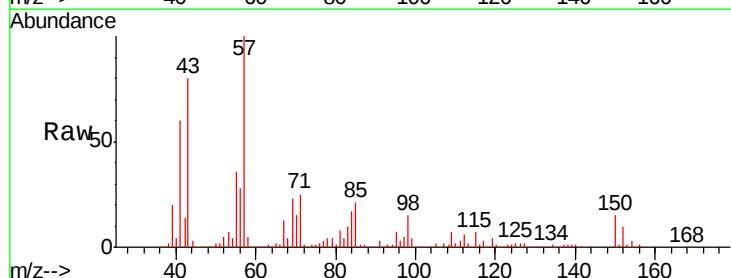


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

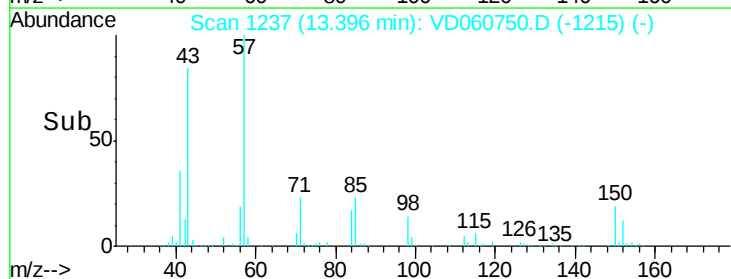
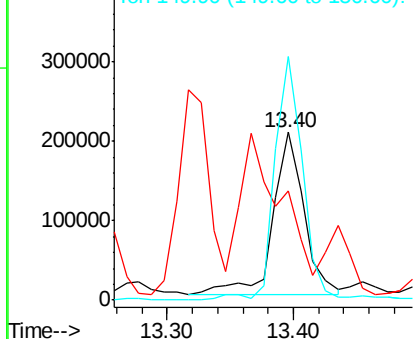


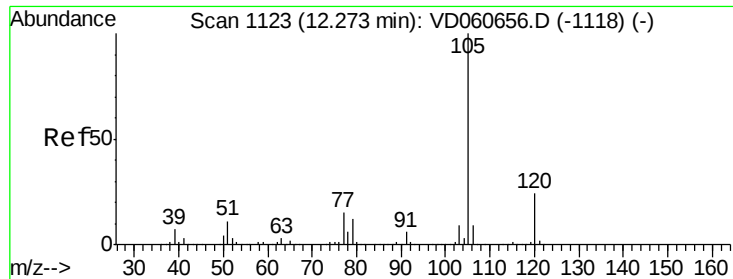
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.40 min Scan# 1237
Delta R.T. 0.02 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion:152 Resp: 349314
Ion Ratio Lower Upper
152 100
115 65.6 24.1 72.3
150 145.4 0.0 315.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 317.130 ug/l

RT: 12.30 min Scan# 1126

Delta R.T. 0.03 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

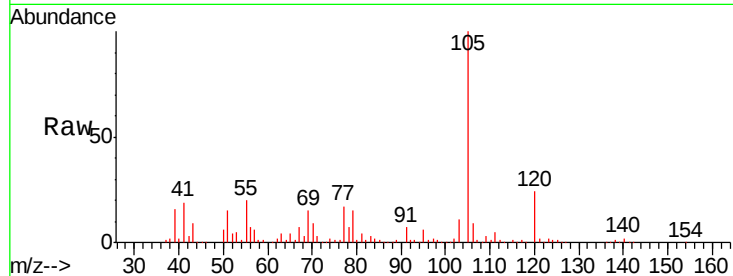
AOC2-06A

Tgt Ion:105 Resp: 7887258

Ion Ratio Lower Upper

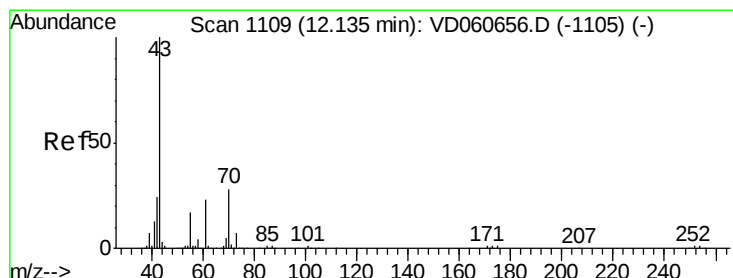
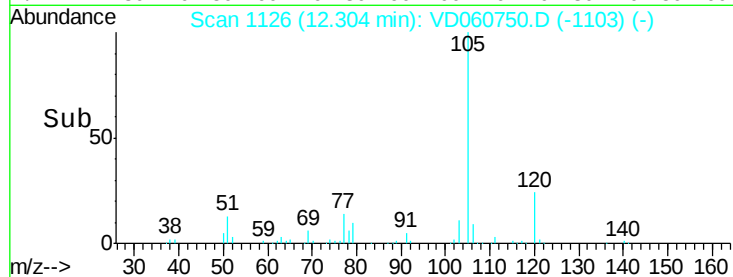
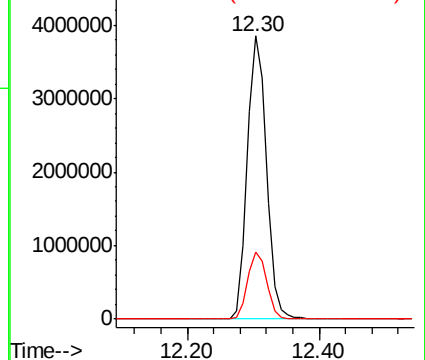
105 100

120 23.6 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 369.959 ug/l

RT: 12.13 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Tgt Ion: 43 Resp: 2171576

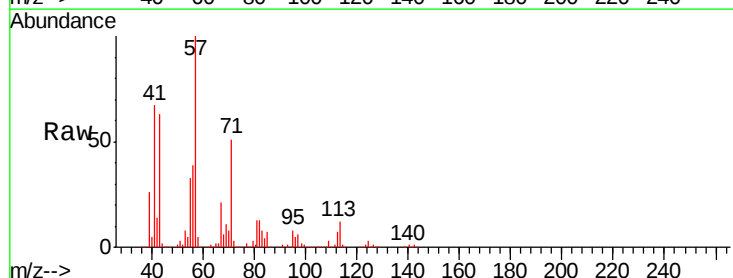
Ion Ratio Lower Upper

43 100

70 12.7 22.2 33.2#

55 52.4 13.8 20.8#

61 0.1 18.2 27.2#

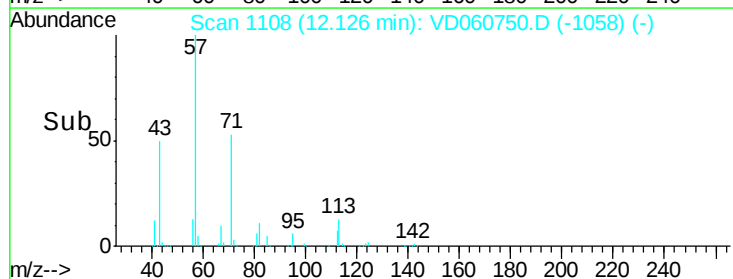
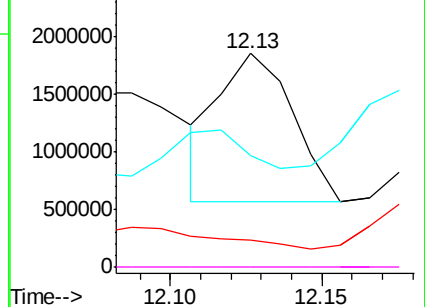


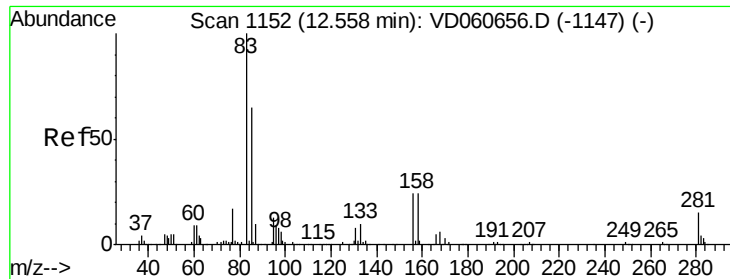
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 50.114 ug/l

RT: 12.53 min Scan# 1149

Delta R.T. -0.03 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

AOC2-06A

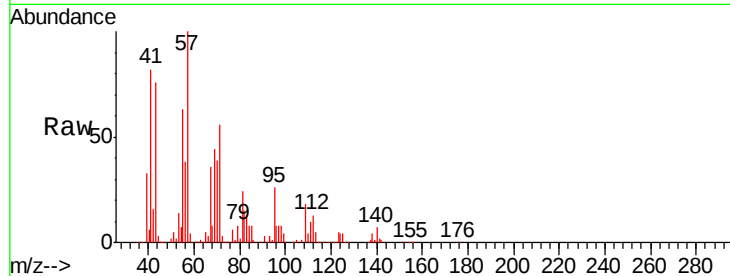
Tgt Ion: 83 Resp: 202022

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

85 61.8 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

800000

600000

400000

200000

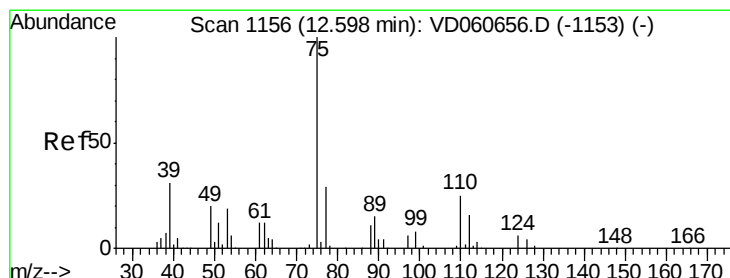
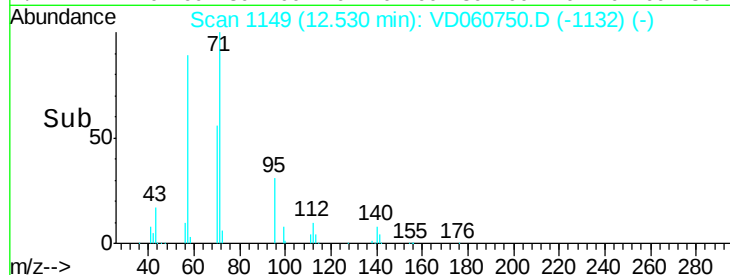
0

12.50

12.53

12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 38.757 ug/l

RT: 12.68 min Scan# 1164

Delta R.T. 0.08 min

Lab File: VD060750.D

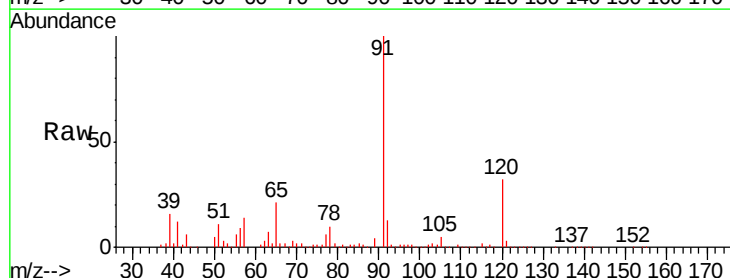
Acq: 28 Dec 2018 16:59

Tgt Ion: 75 Resp: 154131

Ion Ratio Lower Upper

75 100

77 642.8 16.7 50.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

1200000

1000000

800000

600000

400000

200000

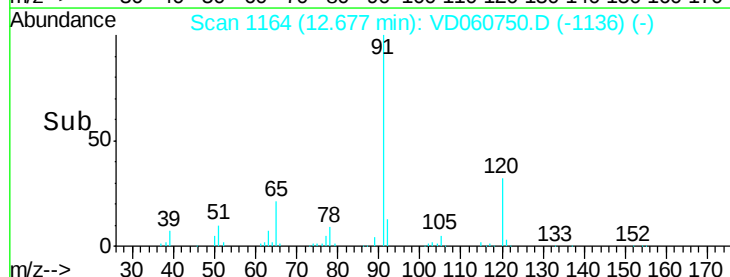
0

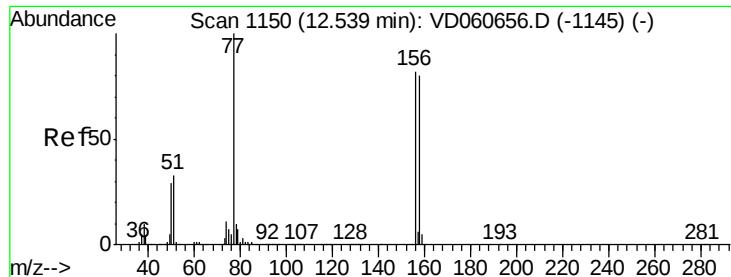
12.60

12.68

12.70

Time-->





#77

Bromobenzene

Concen: 1.750 ug/l

RT: 12.49 min Scan# 1145

Delta R.T. -0.05 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

AOC2-06A

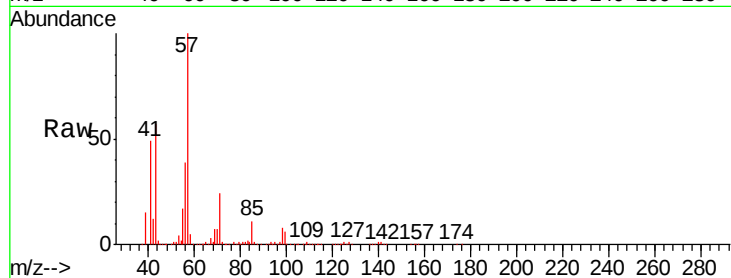
Tgt Ion:156 Resp: 11494

Ion Ratio Lower Upper

156 100

77 1357.8 61.3 183.9#

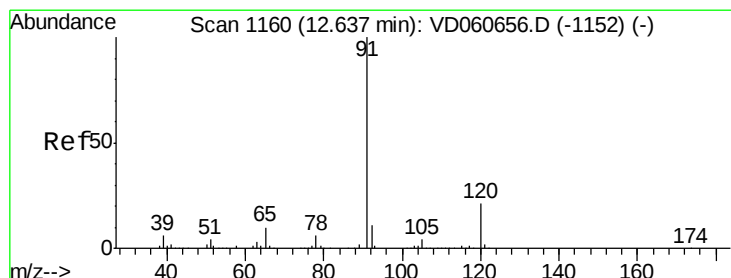
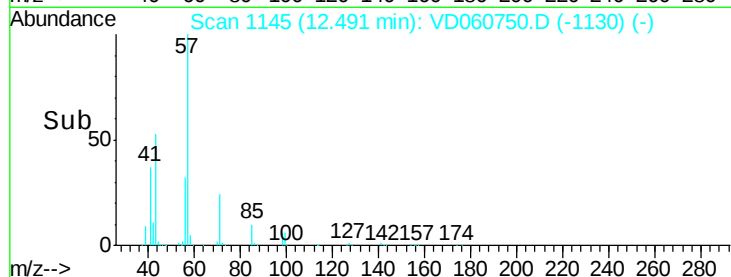
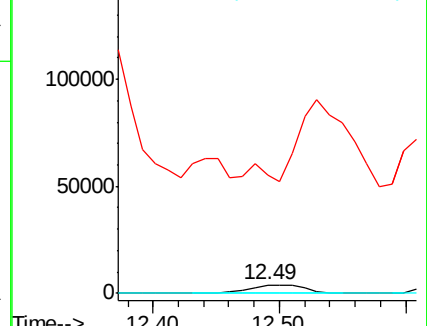
158 0.0 48.9 146.6#



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 627.708 ug/l

RT: 12.68 min Scan# 1164

Delta R.T. 0.04 min

Lab File: VD060750.D

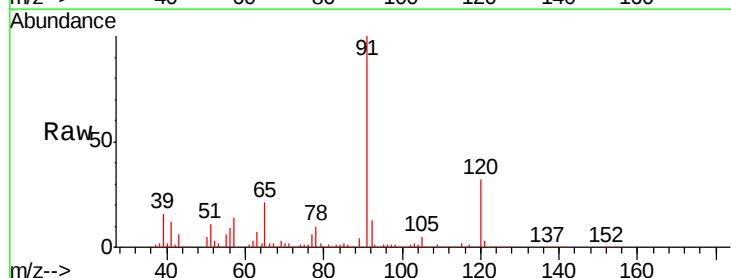
Acq: 28 Dec 2018 16:59

Tgt Ion: 91 Resp:19958350

Ion Ratio Lower Upper

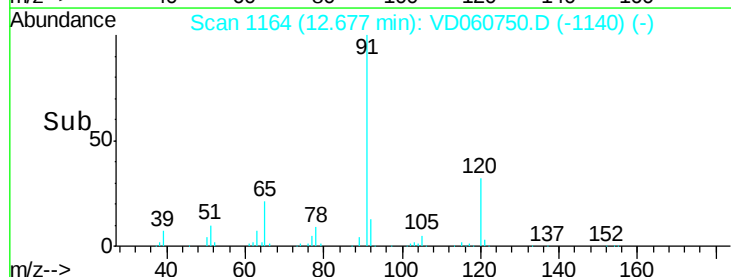
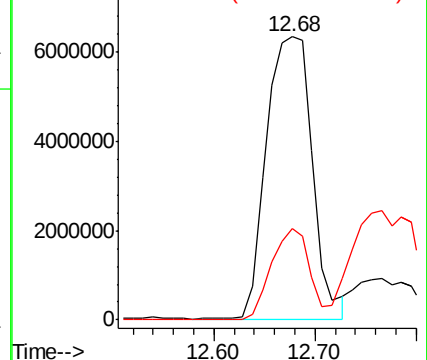
91 100

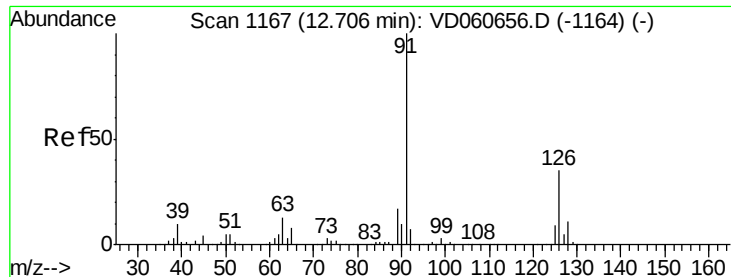
120 32.1 10.4 31.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 1171.952 ug/l

RT: 12.68 min Scan# 1164

Delta R.T. -0.03 min

Lab File: VD060750.D

Acq: 28 Dec 2018 16:59

Instrument :

MSVOA_D

ClientSampleId :

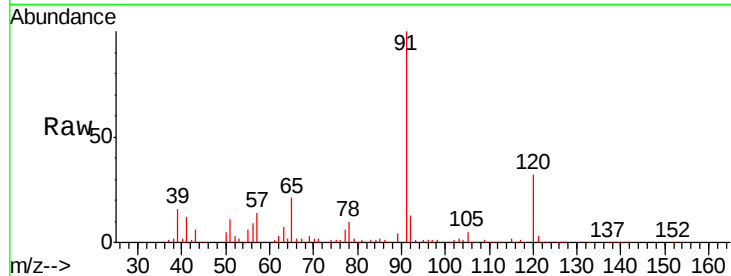
AOC2-06A

Tgt Ion: 91 Resp:19958350

Ion Ratio Lower Upper

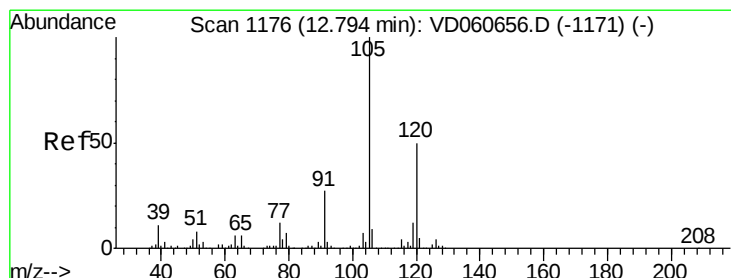
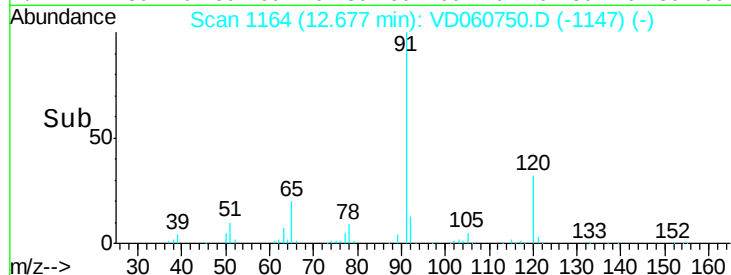
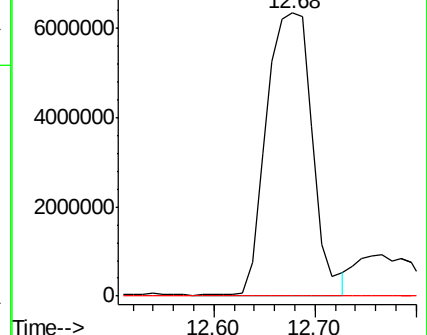
91 100

126 0.0 17.2 51.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 1591.053 ug/l

RT: 12.79 min Scan# 1175

Delta R.T. -0.01 min

Lab File: VD060750.D

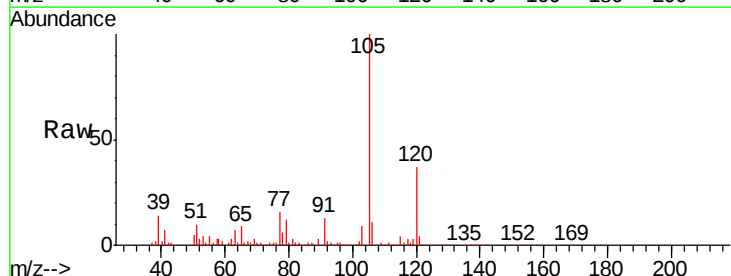
Acq: 28 Dec 2018 16:59

Tgt Ion:105 Resp:30555984

Ion Ratio Lower Upper

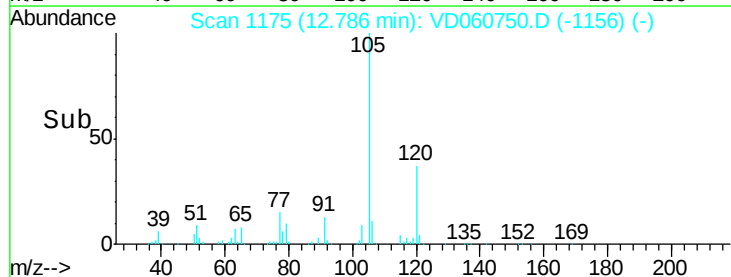
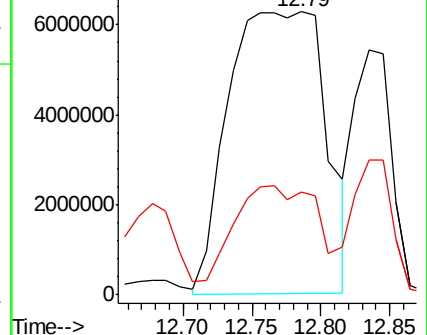
105 100

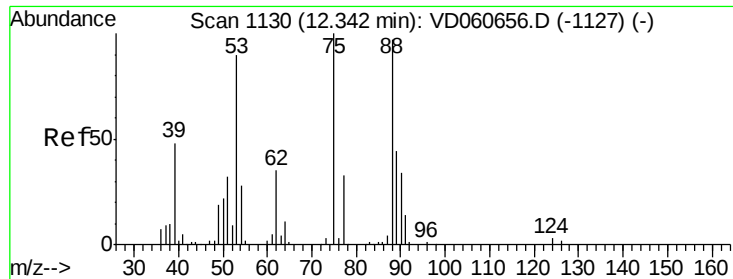
120 36.6 24.8 74.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

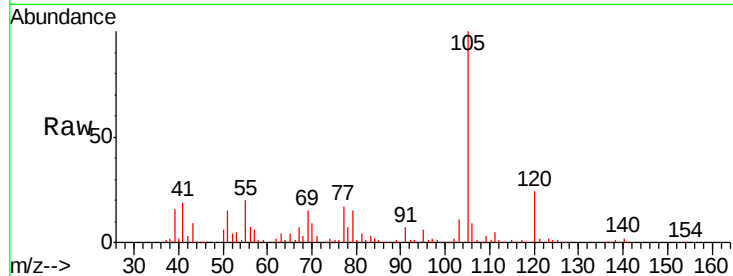




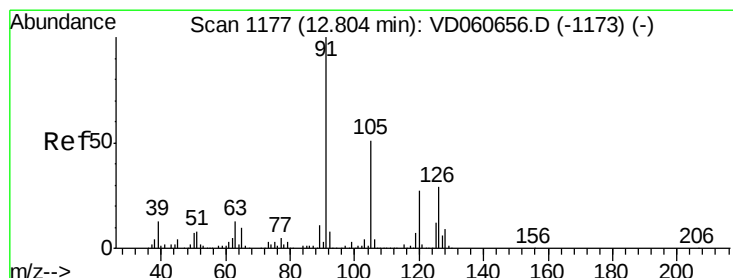
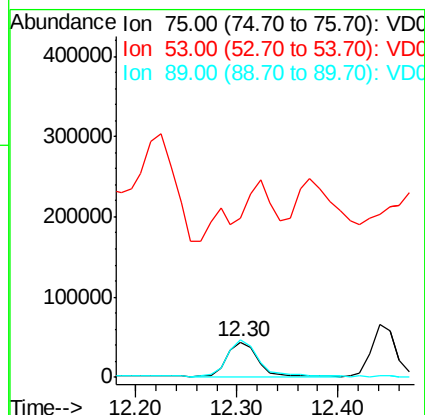
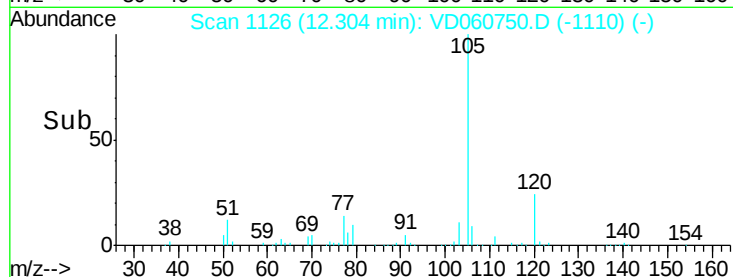
#81
trans-1,4-Dichloro-2-butene
Concen: 82.115 ug/l
RT: 12.30 min Scan# 1126
Delta R.T. -0.04 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

Tgt Ion: 75 Resp: 90237
Ion Ratio Lower Upper
75 100
53 449.0 72.1 108.1#
89 105.3 35.1 52.7#

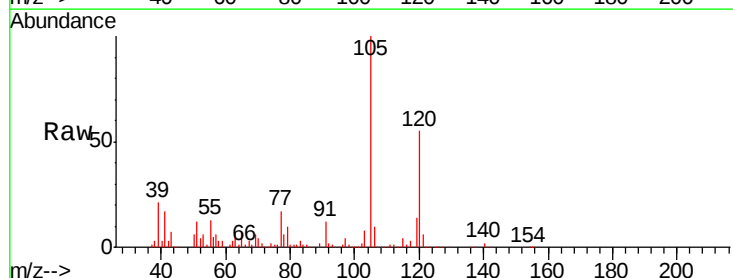


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

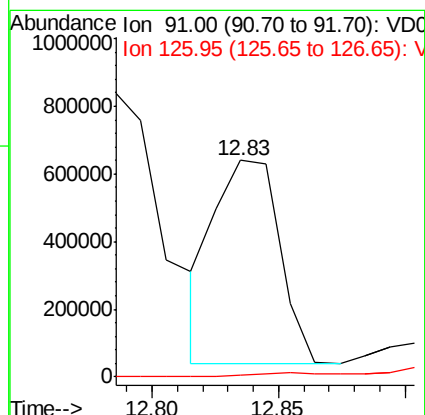
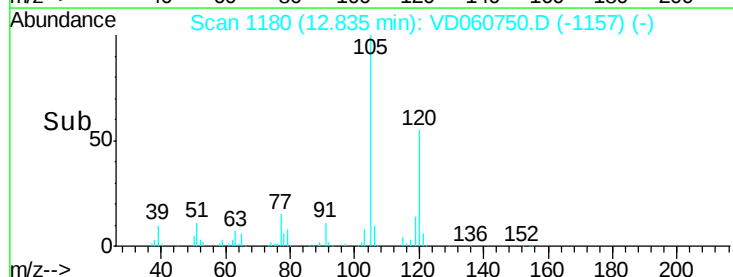


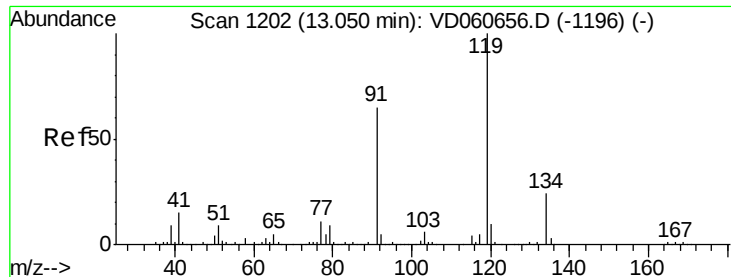
#82
4-Chlorotoluene
Concen: 56.076 ug/l
RT: 12.83 min Scan# 1180
Delta R.T. 0.03 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 91 Resp: 1082410
Ion Ratio Lower Upper
91 100
126 0.7 14.6 43.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

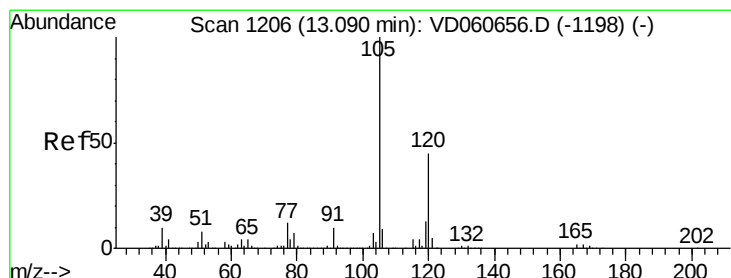
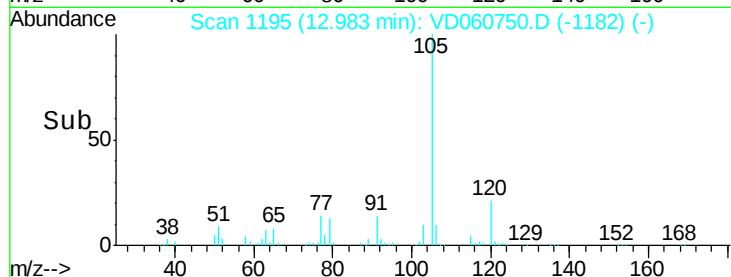
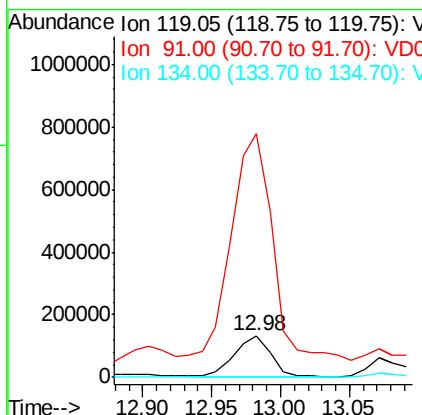
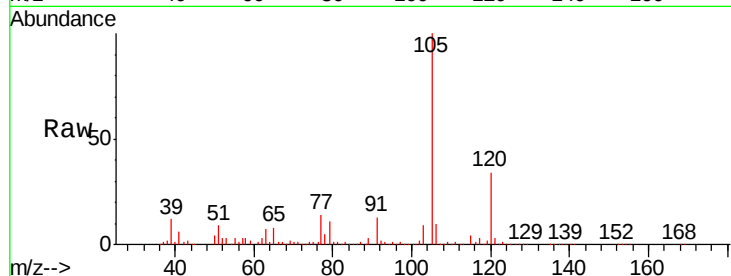




#83
 tert-Butylbenzene
 Concen: 10.770 ug/l
 RT: 12.98 min Scan# 1195
 Delta R.T. -0.07 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

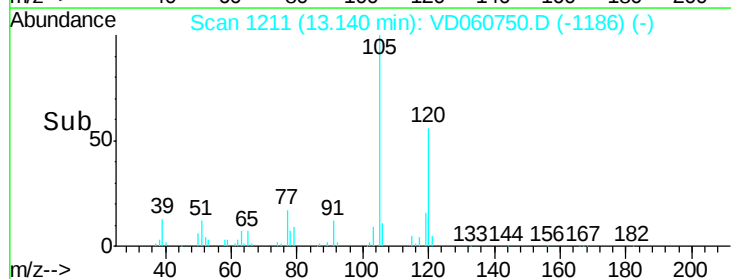
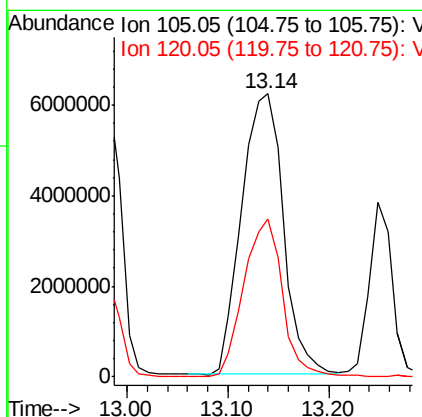
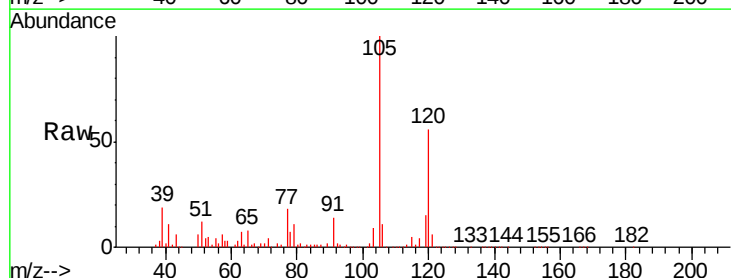
Instrument :
 MSVOA_D
 ClientSampled :
 AOC2-06A

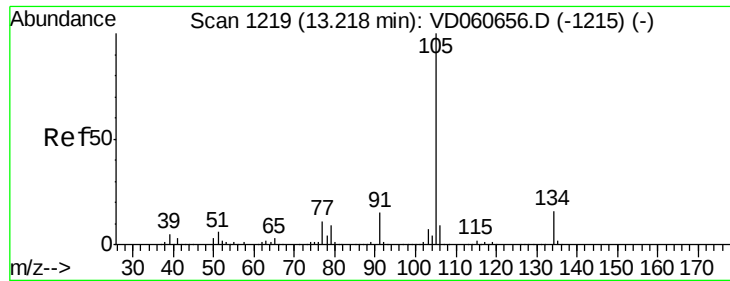
Tgt Ion:119 Resp: 235397
 Ion Ratio Lower Upper
 119 100
 91 581.5 32.5 97.4#
 134 0.0 11.9 35.9#



#84
 1,2,4-Trimethylbenzene
 Concen: 901.722 ug/l
 RT: 13.14 min Scan# 1211
 Delta R.T. 0.05 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

Tgt Ion:105 Resp:17835817
 Ion Ratio Lower Upper
 105 100
 120 55.6 22.4 67.0

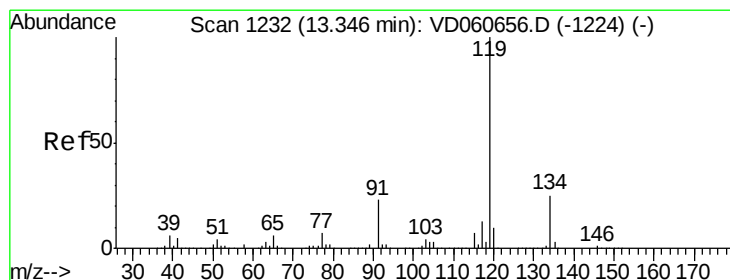
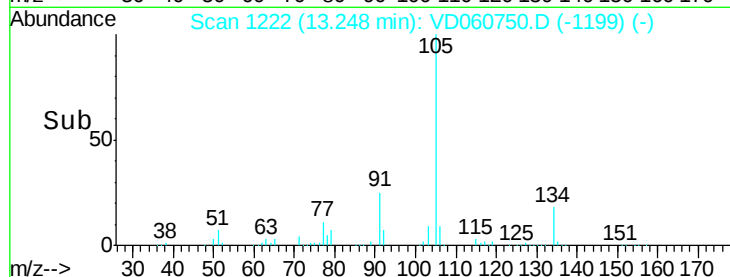
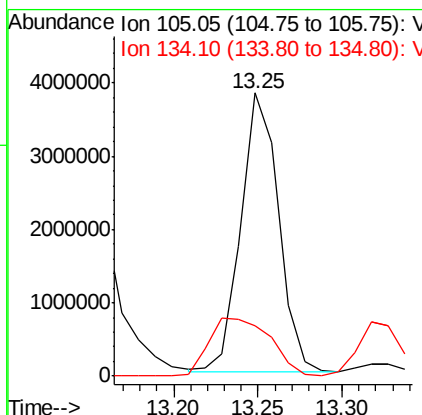
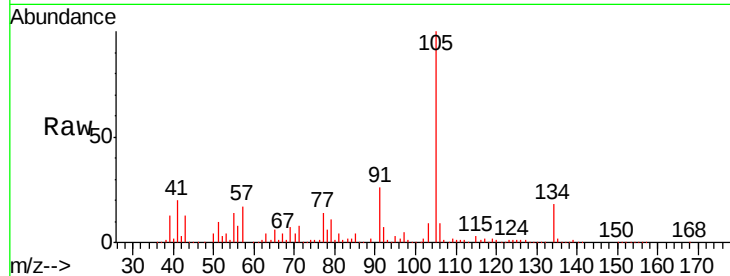




#85
 sec-Butylbenzene
 Concen: 221.316 ug/l
 RT: 13.25 min Scan# 1222
 Delta R.T. 0.03 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

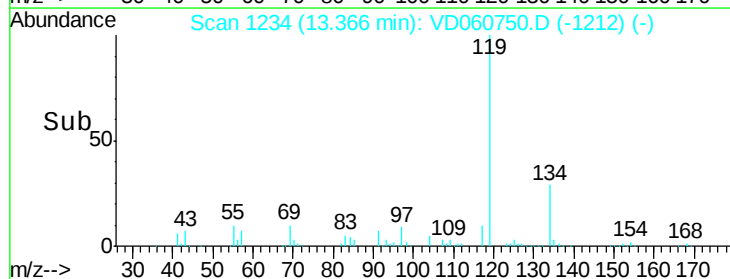
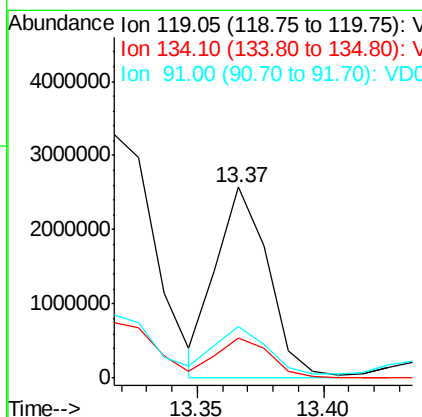
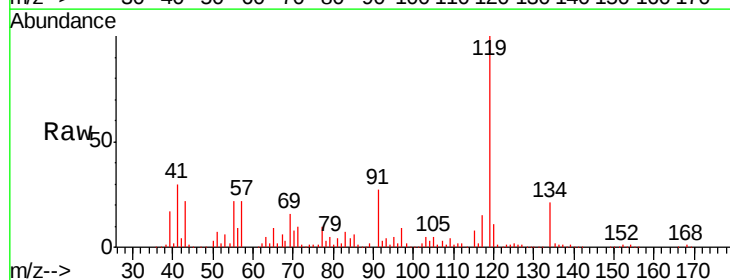
Instrument :
 MSVOA_D
 ClientSampleId :
 AOC2-06A

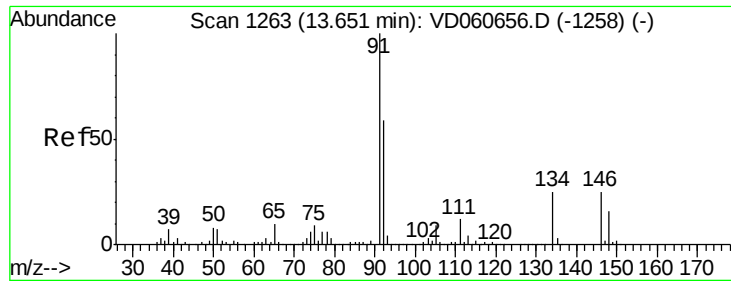
Tgt Ion:105 Resp: 5899081
 Ion Ratio Lower Upper
 105 100
 134 17.9 8.2 24.4



#86
 p-Isopropyltoluene
 Concen: 171.138 ug/l
 RT: 13.37 min Scan# 1234
 Delta R.T. 0.02 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

Tgt Ion:119 Resp: 3682196
 Ion Ratio Lower Upper
 119 100
 134 21.0 12.5 37.5
 91 27.0 11.4 34.2

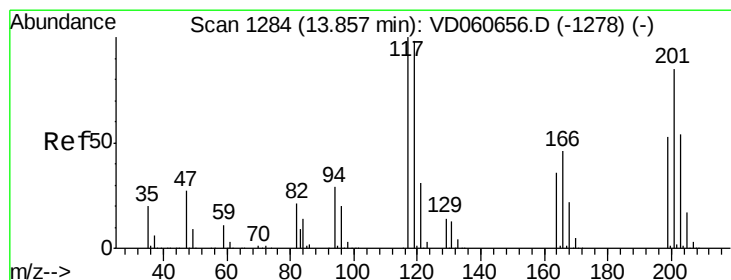
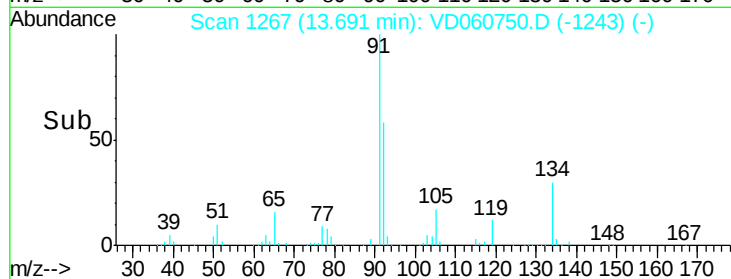
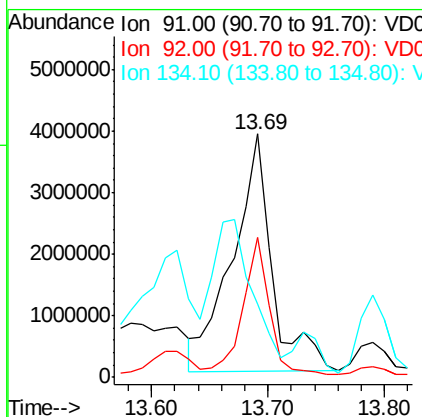
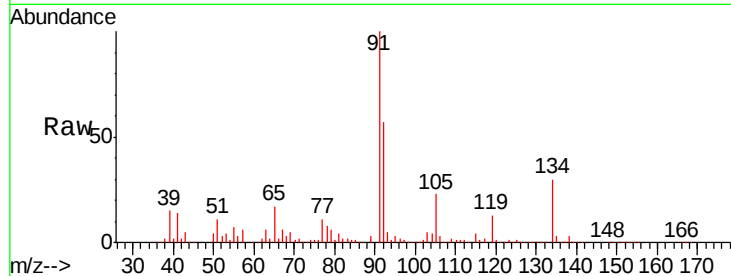




#89
n-Butylbenzene
Concen: 412.895 ug/l
RT: 13.69 min Scan# 1267
Delta R.T. 0.04 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

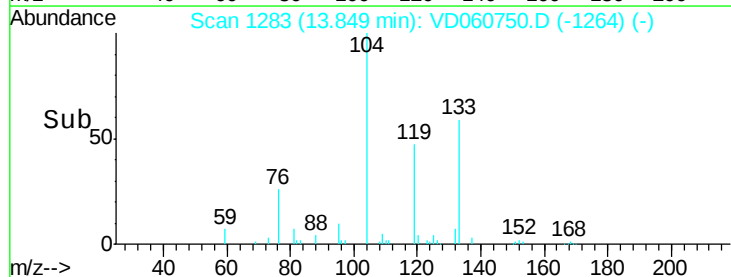
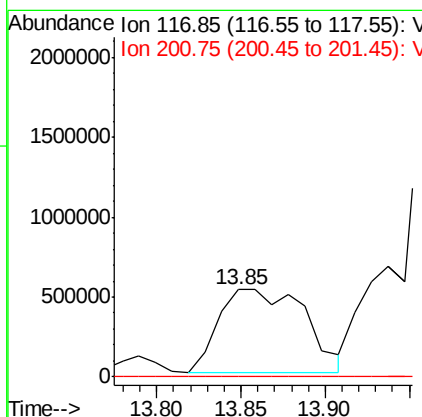
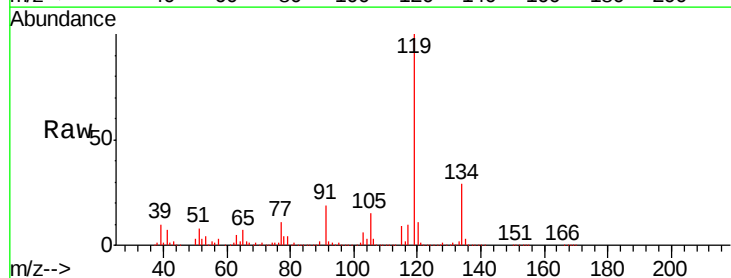
Instrument :
MSVOA_D
ClientSampleId :
AOC2-06A

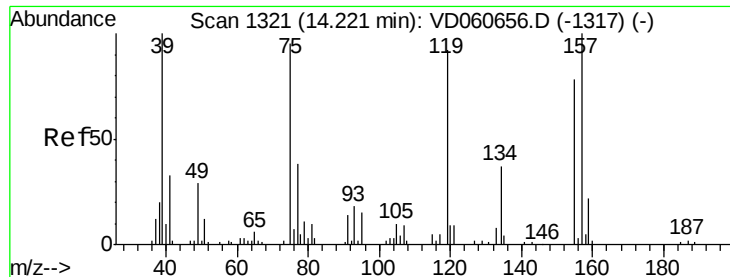
Tgt Ion: 91 Resp: 9078364
Ion Ratio Lower Upper
91 100
92 57.3 29.7 89.1
134 29.9 12.7 38.1



#90
Hexachloroethane
Concen: 349.651 ug/l
RT: 13.85 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VD060750.D
Acq: 28 Dec 2018 16:59

Tgt Ion: 117 Resp: 1848153
Ion Ratio Lower Upper
117 100
201 0.0 42.6 127.8#

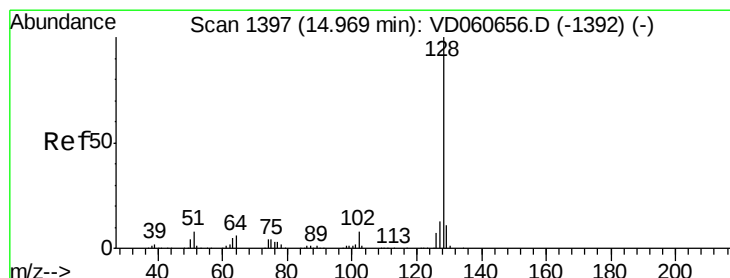
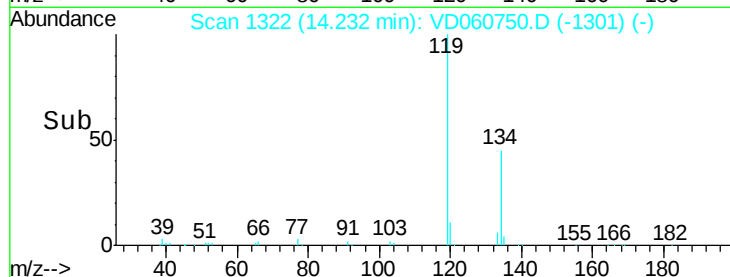
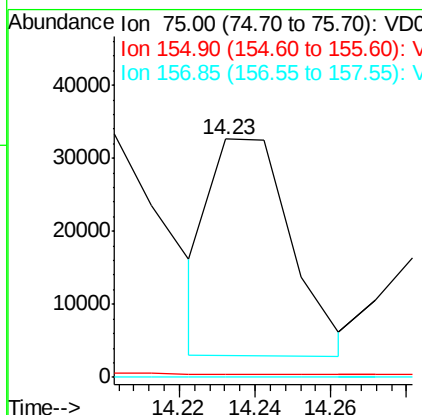
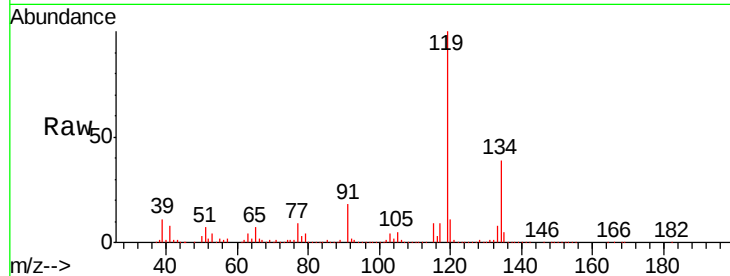




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 91.152 ug/l
 RT: 14.23 min Scan# 1322
 Delta R.T. 0.01 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

Instrument :
 MSVOA_D
 ClientSampleId :
 AOC2-06A

Tgt Ion: 75 Resp: 43169
 Ion Ratio Lower Upper
 75 100
 155 1.4 41.1 123.4#
 157 0.0 52.5 157.6#



#95
 Naphthalene
 Concen: 2.140 ug/l
 RT: 14.97 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: VD060750.D
 Acq: 28 Dec 2018 16:59

Tgt Ion: 128 Resp: 19565
 Ion Ratio Lower Upper
 128 100
 127 15.6 10.1 15.1#
 129 24.6 8.6 13.0#

