

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD122018\
 Data File : VD060659.D
 Acq On : 20 Dec 2018 15:18
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

Quant Time: Dec 21 05:12:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1764539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	2350097	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1879087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	961496	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	522171	42.82	ug/l	0.00
Spiked Amount			Recovery	=	85.64%	
35) Dibromofluoromethane	6.33	113	783621	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	
50) Toluene-d8	9.46	98	2333531	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	
62) 4-Bromofluorobenzene	12.42	95	813113	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	1137175	50.437	ug/l	100
3) Chloromethane	1.77	50	1014469	48.890	ug/l	99
4) Vinyl Chloride	1.87	62	800395	48.585	ug/l	99
5) Bromomethane	2.17	94	207085	56.117	ug/l	98
6) Chloroethane	2.28	64	262131	53.317	ug/l	96
7) Trichlorofluoromethane	2.52	101	905222	49.401	ug/l	97
8) Diethyl Ether	2.84	74	148100	48.309	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.11	101	562250	47.304	ug/l	98
10) Methyl Iodide	3.26	142	613486	49.112	ug/l	98
11) Tert butyl alcohol	3.98	59	122760	240.884	ug/l	95
12) 1,1-Dichloroethene	3.09	96	455734	46.664	ug/l	99
13) Acrolein	3.00	56	108998	209.882	ug/l	97
14) Allyl chloride	3.56	41	841308	46.947	ug/l	98
15) Acrylonitrile	4.10	53	673726	227.711	ug/l	97
16) Acetone	3.17	43	499784	234.690	ug/l	98
17) Carbon Disulfide	3.33	76	1529719	49.045	ug/l	100
18) Methyl Acetate	3.57	43	242308	45.912	ug/l	98
19) Methyl tert-butyl Ether	4.14	73	1165891	47.054	ug/l	100
20) Methylene Chloride	3.73	84	901707	40.772	ug/l	98
21) trans-1,2-Dichloroethene	4.12	96	939808	46.989	ug/l	98
22) Diisopropyl ether	4.86	45	2829494	46.503	ug/l	98
23) Vinyl Acetate	4.82	43	6772745	230.076	ug/l	99
24) 1,1-Dichloroethane	4.77	63	1504834	47.020	ug/l	100
25) 2-Butanone	5.63	43	943636	231.564	ug/l	98
26) 2,2-Dichloropropane	5.59	77	1195462	47.321	ug/l	100
27) cis-1,2-Dichloroethene	5.60	96	950896	46.834	ug/l	99
28) Bromochloromethane	5.93	49	598278	44.250	ug/l	99
29) Tetrahydrofuran	5.96	42	518189	224.310	ug/l	100
30) Chloroform	6.10	83	1473369	45.752	ug/l	100
31) Cyclohexane	6.37	56	1424508	46.252	ug/l	98
32) 1,1,1-Trichloroethane	6.30	97	1281725	48.107	ug/l	99
36) 1,1-Dichloropropene	6.53	75	1167344	48.238	ug/l	98
37) Ethyl Acetate	5.70	43	480891	47.515	ug/l	96
38) Carbon Tetrachloride	6.51	117	1059218	49.614	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	1356626	49.154	ug/l	100
40) Benzene	6.80	78	2991260	47.853	ug/l	99
41) Methacrylonitrile	5.93	41	196192m	35.045	ug/l	
42) 1,2-Dichloroethane	6.90	62	737195	47.524	ug/l	100
43) Isopropyl Acetate	8.35	43	623346	47.994	ug/l #	98
44) Trichloroethene	7.75	130	927230	50.117	ug/l	99
45) 1,2-Dichloropropane	8.10	63	721513	47.066	ug/l	100
46) Dibromomethane	8.22	93	422594	48.301	ug/l	97
47) Bromodichloromethane	8.50	83	1017897	49.121	ug/l	97
48) Methyl methacrylate	8.25	41	394400	49.997	ug/l	98
49) 1,4-Dioxane	8.23	88	73014	995.478	ug/l	96
51) 4-Methyl-2-Pentanone	9.34	43	1891338	237.685	ug/l	99
52) Toluene	9.55	92	1885539	48.117	ug/l	98
53) t-1,3-Dichloropropene	9.92	75	838290	48.489	ug/l	98
54) cis-1,3-Dichloropropene	9.11	75	1067927	47.194	ug/l	98
55) 1,1,2-Trichloroethane	10.18	97	496869	47.126	ug/l	97
56) Ethyl methacrylate	10.03	69	484988	49.524	ug/l	98
57) 1,3-Dichloropropane	10.39	76	804714	48.152	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.93	63	1319035	228.590	ug/l	99
59) 2-Hexanone	10.48	43	1401064	251.544	ug/l	98
60) Dibromochloromethane	10.64	129	671917	50.032	ug/l	100
61) 1,2-Dibromoethane	10.76	107	541828	49.545	ug/l	95
64) Tetrachloroethene	10.26	164	829391	48.698	ug/l	100
65) Chlorobenzene	11.31	112	1967088	47.382	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	644786	48.304	ug/l	98
67) Ethyl Benzene	11.43	91	3384583	47.603	ug/l	100
68) m/p-Xylenes	11.57	106	2473203	95.183	ug/l	99
69) o-Xylene	11.93	106	1203926	48.838	ug/l	90
70) Styrene	11.96	104	1946561	49.028	ug/l	99
71) Bromoform	12.12	173	439068	49.830	ug/l	96
73) Isopropylbenzene	12.28	105	3326607	48.594	ug/l	100
74) N-amyl acetate	12.14	43	793895	49.137	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	540895	48.746	ug/l	99
76) 1,2,3-Trichloropropane	12.60	75	527836	48.220	ug/l	98
77) Bromobenzene	12.54	156	874729	48.398	ug/l	98
78) n-propylbenzene	12.64	91	4086673	46.695	ug/l	99
79) 2-Chlorotoluene	12.71	91	2206066	47.062	ug/l	100
80) 1,3,5-Trimethylbenzene	12.80	105	2574679	48.706	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	154059	50.932	ug/l	98
82) 4-Chlorotoluene	12.81	91	2437503	45.877	ug/l	99
83) tert-Butylbenzene	13.05	119	2898642	48.182	ug/l	100
84) 1,2,4-Trimethylbenzene	13.09	105	2606292	47.871	ug/l	99
85) sec-Butylbenzene	13.22	105	3562813	48.561	ug/l	99
86) p-Isopropyltoluene	13.35	119	2854130	48.193	ug/l	99
87) 1,3-Dichlorobenzene	13.31	146	1568717	47.282	ug/l	95
88) 1,4-Dichlorobenzene	13.40	146	1565201	47.875	ug/l	99
89) n-Butylbenzene	13.65	91	2918266	48.220	ug/l	99
90) Hexachloroethane	13.86	117	724517	49.798	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	1254598	47.140	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.22	75	63084	48.393	ug/l	98

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QLast Update : Fri Dec 21 03:34:39 2018
Response via : Initial Calibration

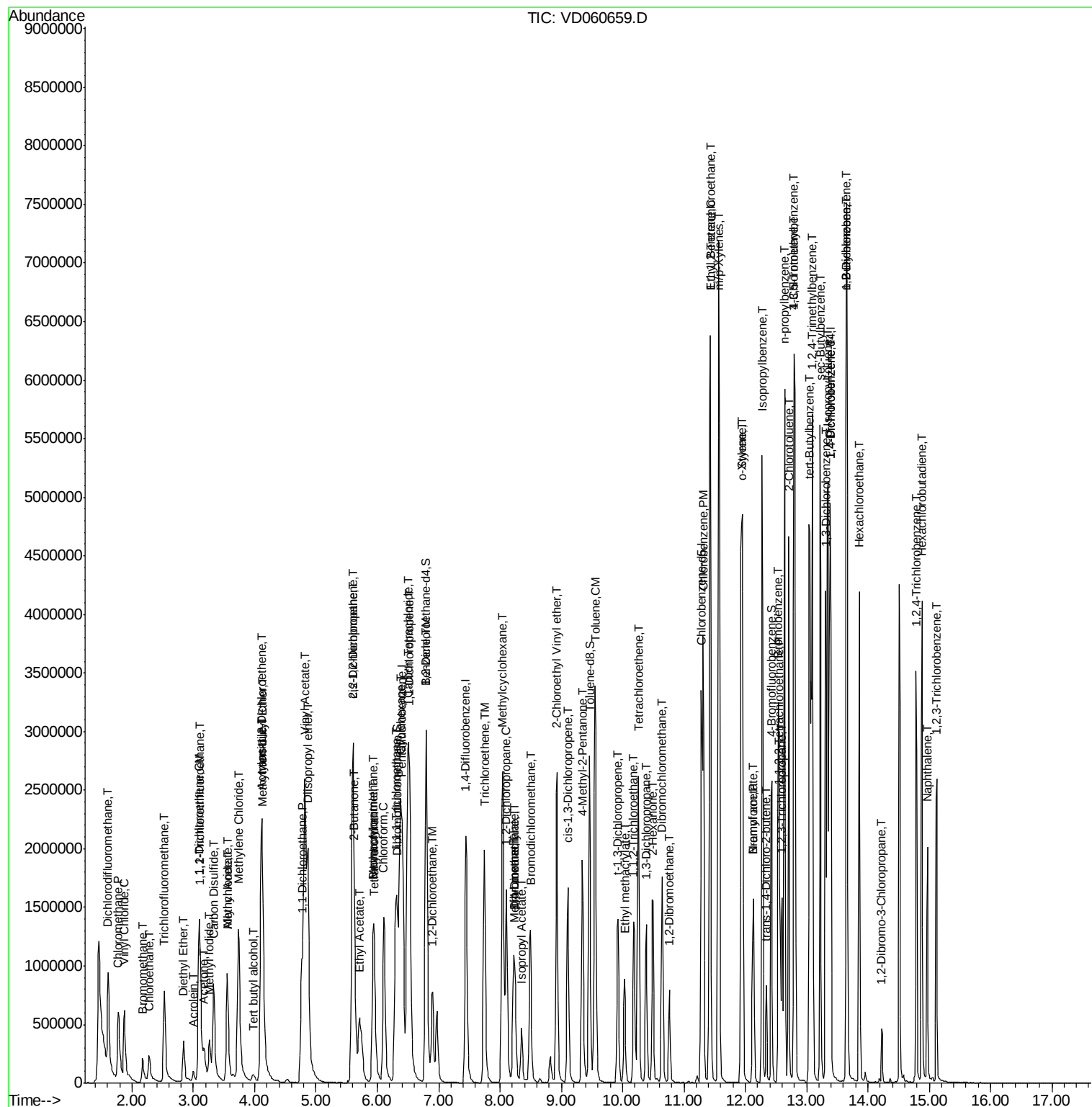
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	1032485	48.753	ug/l	95
94) Hexachlorobutadiene	14.88	225	757593	48.397	ug/l	99
95) Naphthalene	14.97	128	1231191	48.914	ug/l	99
96) 1,2,3-Trichlorobenzene	15.12	180	794106	47.967	ug/l	100

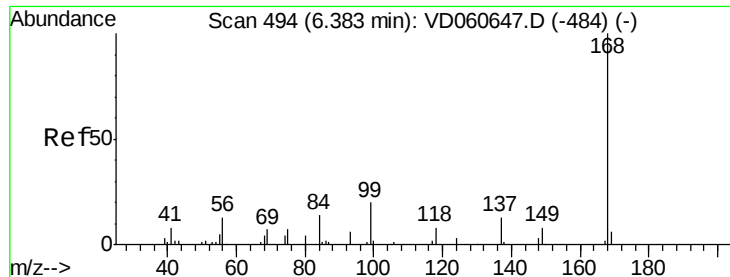
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

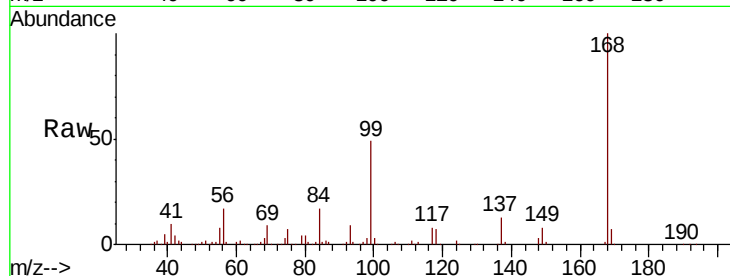
ICVVD122018

Tot Ion:168 Resp: 1764539

Ion Ratio Lower Upper

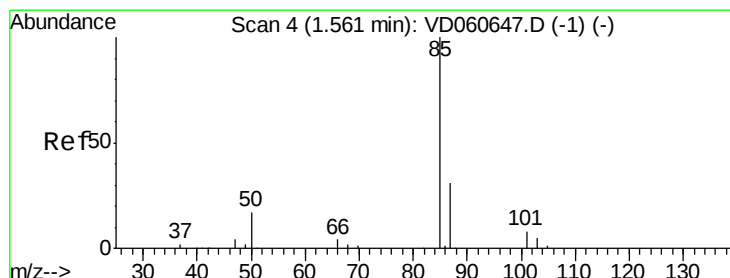
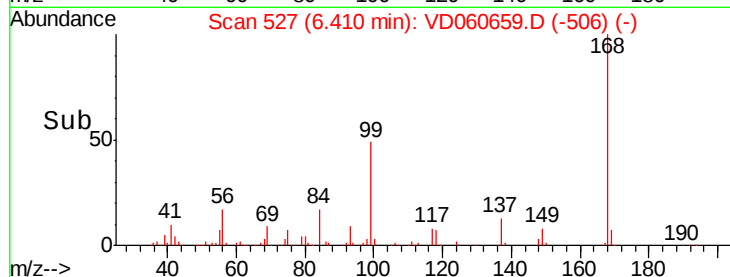
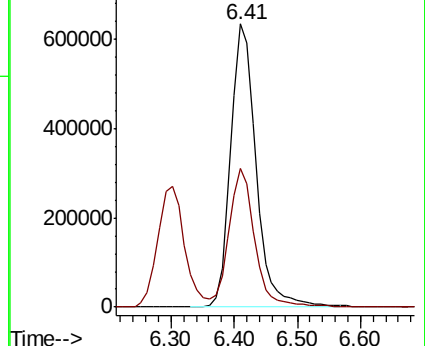
168 100

99 48.9 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 50.437 ug/l

RT: 1.61 min Scan# 39

Delta R.T. 0.00 min

Lab File: VD060659.D

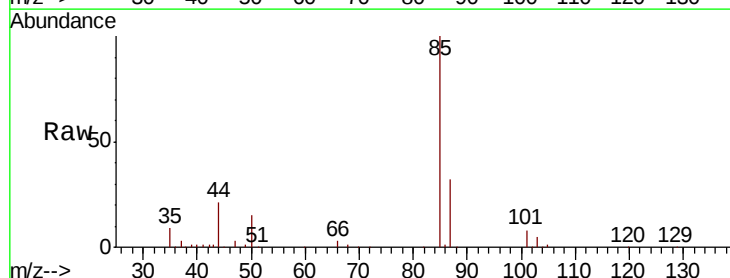
Acq: 20 Dec 2018 15:18

Tgt Ion: 85 Resp: 1137175

Ion Ratio Lower Upper

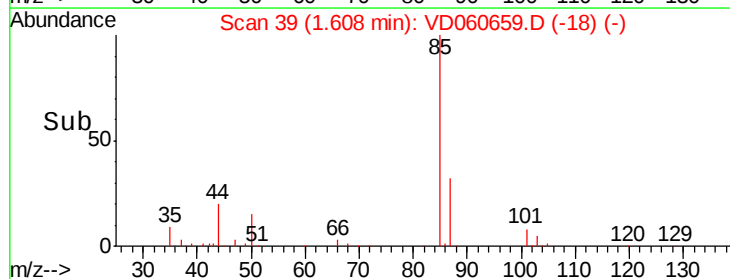
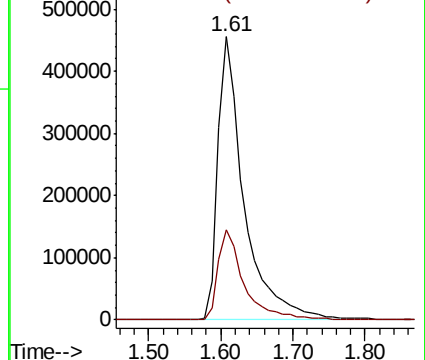
85 100

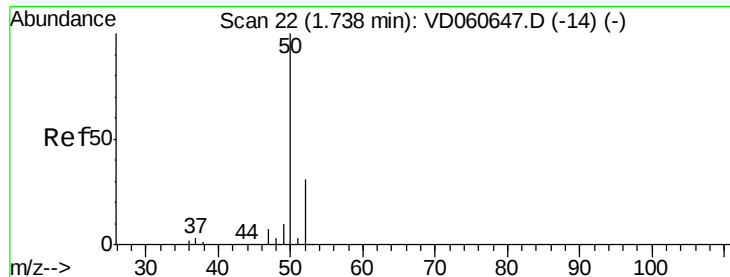
87 31.7 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 48.890 ug/l

RT: 1.77 min Scan# 56

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

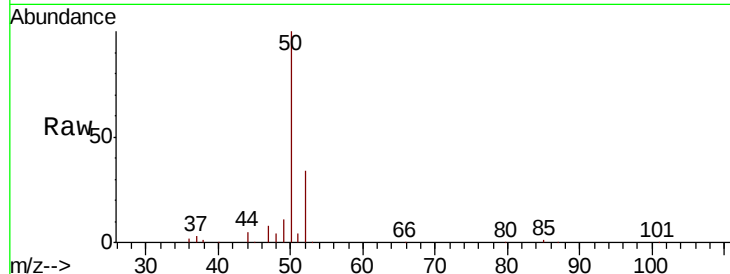
ICVVD122018

Tot Ion: 50 Resp: 1014469

Ion Ratio Lower Upper

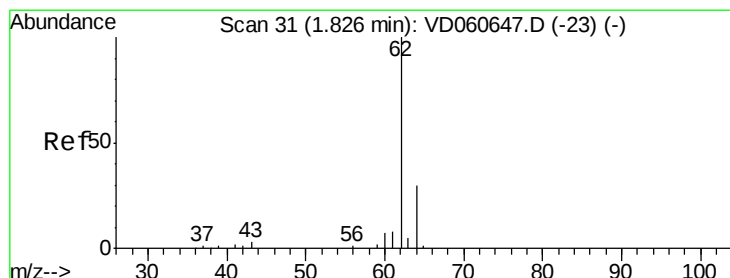
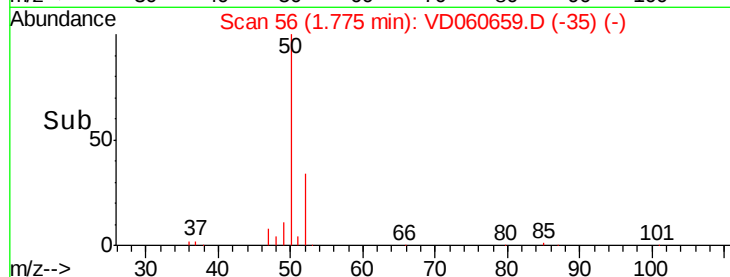
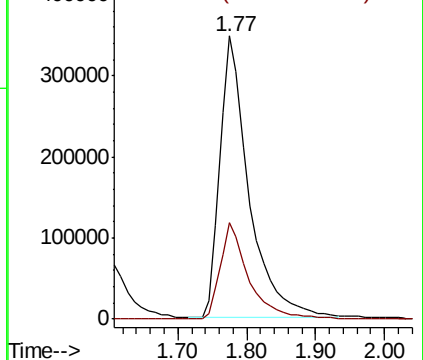
50 100

52 33.9 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.585 ug/l

RT: 1.87 min Scan# 66

Delta R.T. 0.00 min

Lab File: VD060659.D

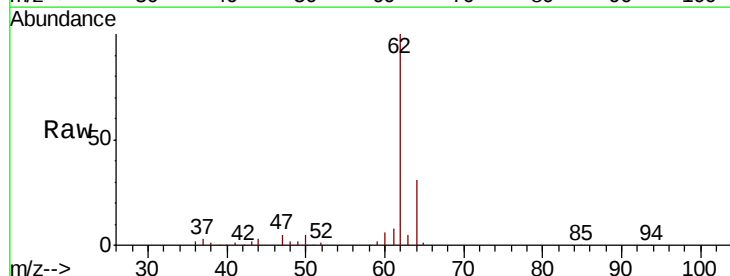
Acq: 20 Dec 2018 15:18

Tgt Ion: 62 Resp: 800395

Ion Ratio Lower Upper

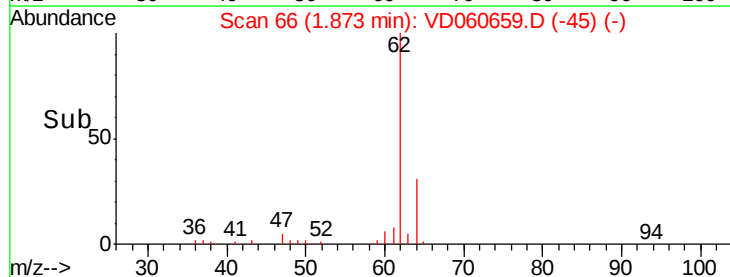
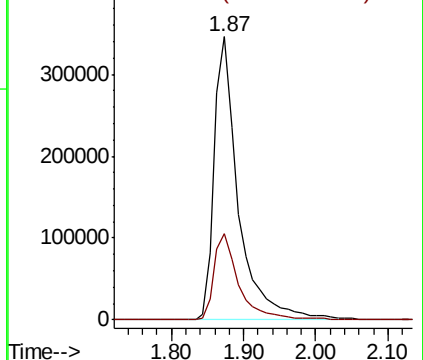
62 100

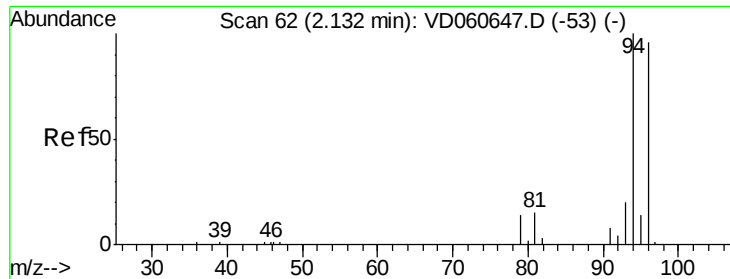
64 30.7 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

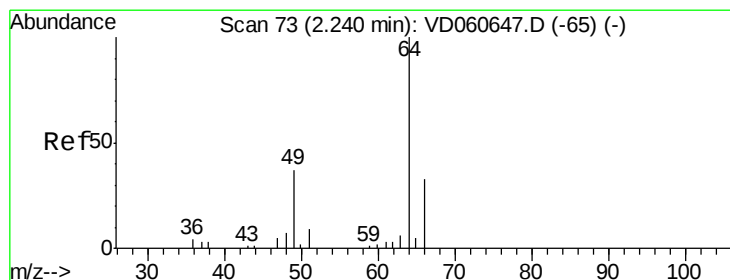
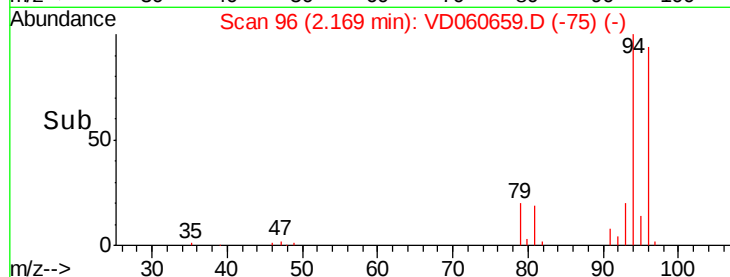
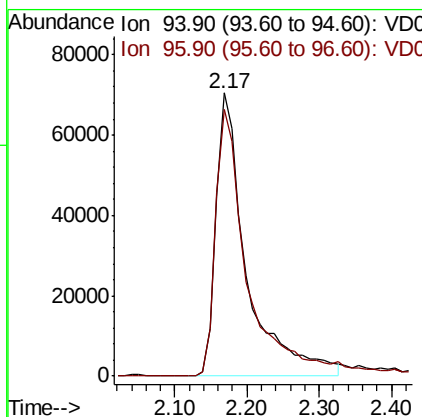
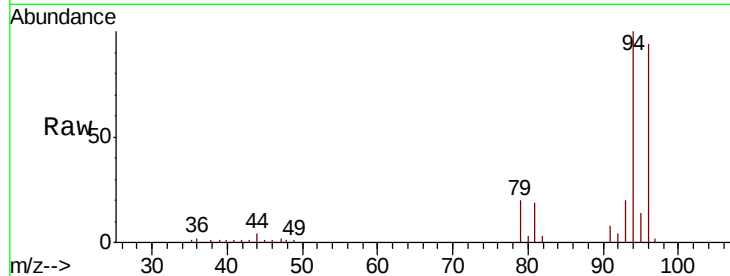




#5
Bromomethane
Concen: 56.117 ug/l
RT: 2.17 min Scan# 96
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

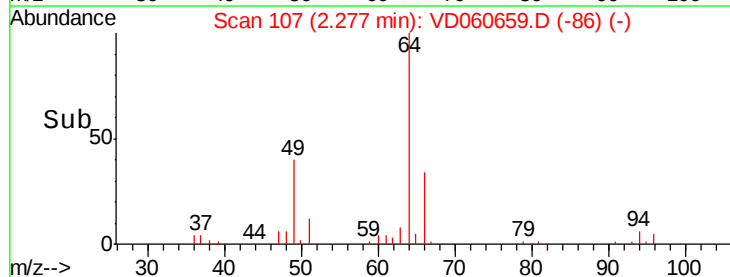
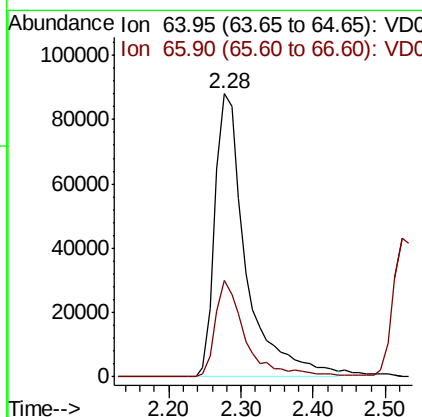
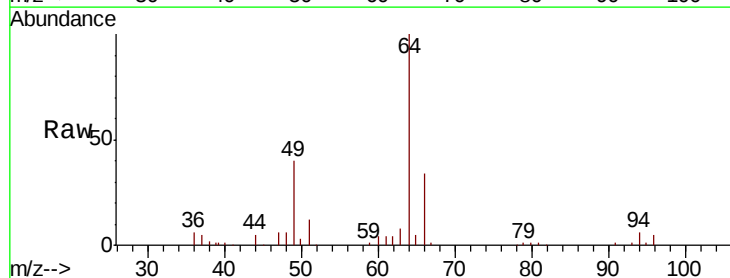
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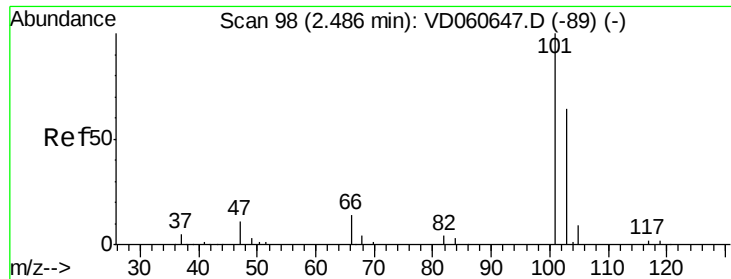
Tot Ion: 94 Resp: 207085
Ion Ratio Lower Upper
94 100
96 94.3 77.2 115.8



#6
Chloroethane
Concen: 53.317 ug/l
RT: 2.28 min Scan# 107
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 64 Resp: 262131
Ion Ratio Lower Upper
64 100
66 34.2 25.6 38.4



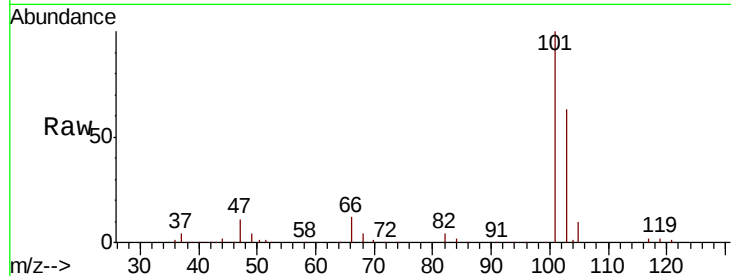


#7

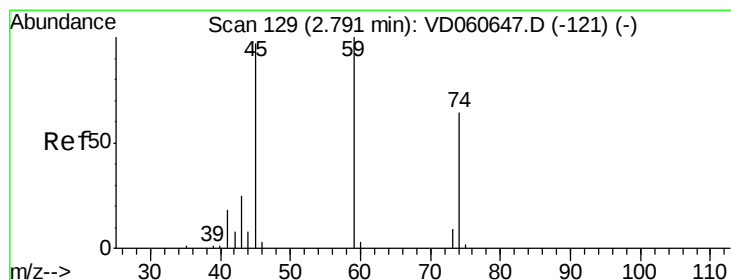
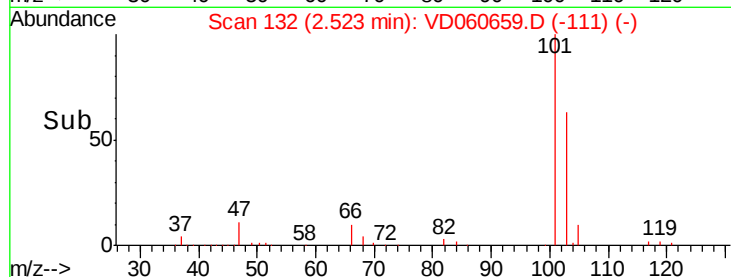
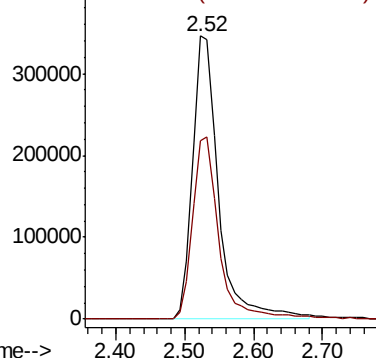
Trichlorofluoromethane
Concen: 49.401 ug/l
RT: 2.52 min Scan# 132
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion:101 Resp: 905222
Ion Ratio Lower Upper
101 100
103 62.8 51.9 77.9



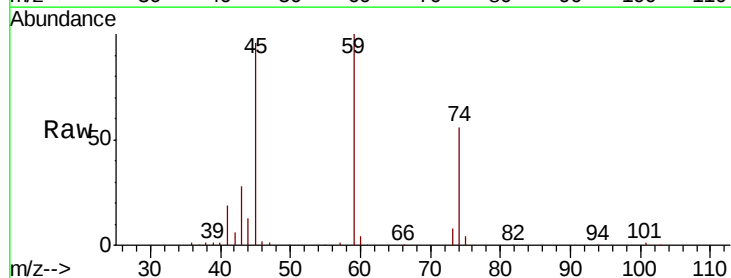
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



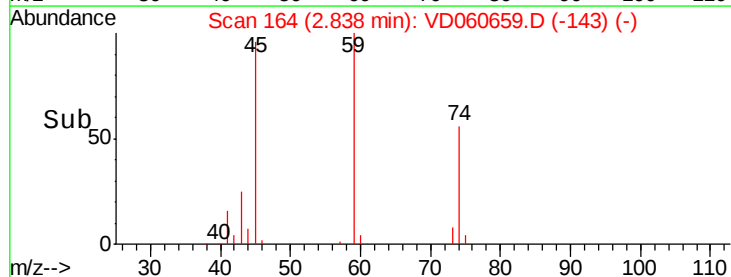
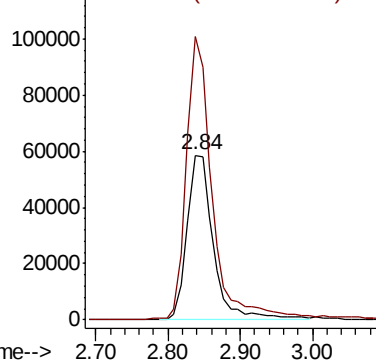
#8

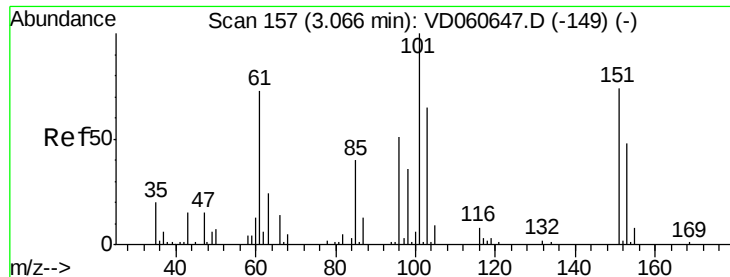
Diethyl Ether
Concen: 48.309 ug/l
RT: 2.84 min Scan# 164
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 74 Resp: 148100
Ion Ratio Lower Upper
74 100
45 171.8 79.3 238.1



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.304 ug/l

RT: 3.11 min Scan# 192

Delta R.T. 0.01 min

Lab File: VD060659.D

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ICVVD122018

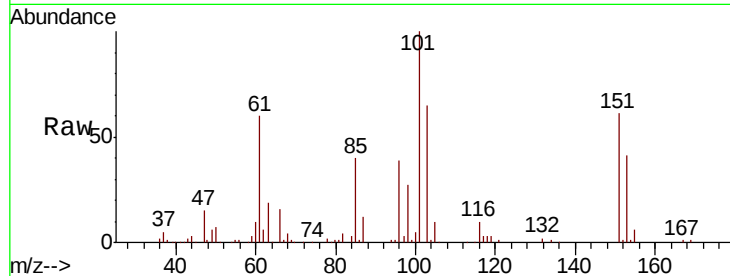
Tot Ion:101 Resp: 562250

Ion Ratio Lower Upper

101 100

85 40.3 33.4 50.0

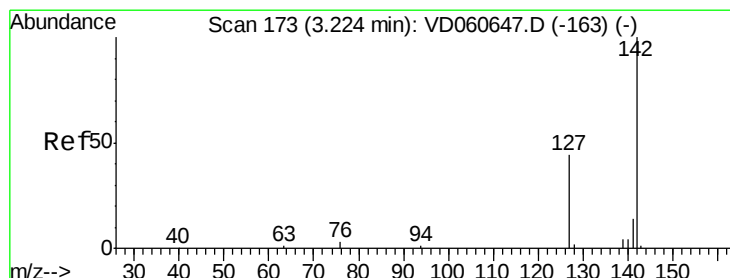
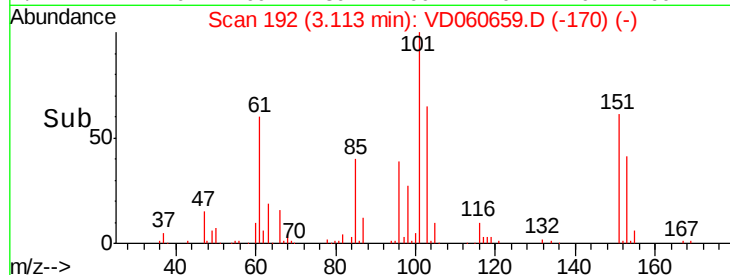
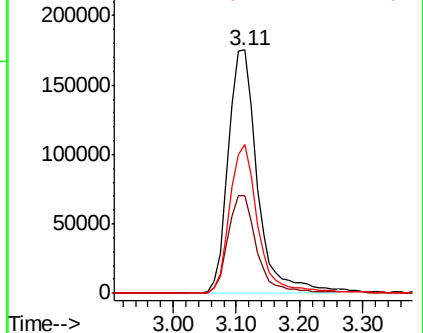
151 60.9 47.5 71.3



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 49.112 ug/l

RT: 3.26 min Scan# 207

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

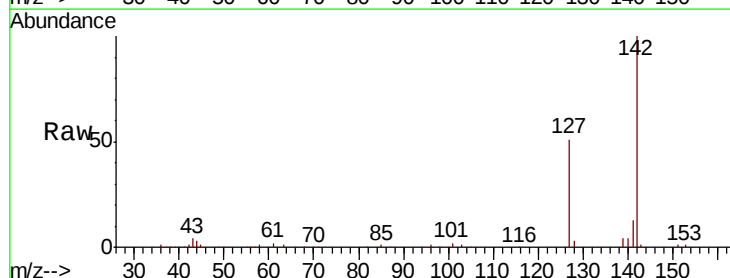
Tgt Ion:142 Resp: 613486

Ion Ratio Lower Upper

142 100

127 51.0 39.5 59.3

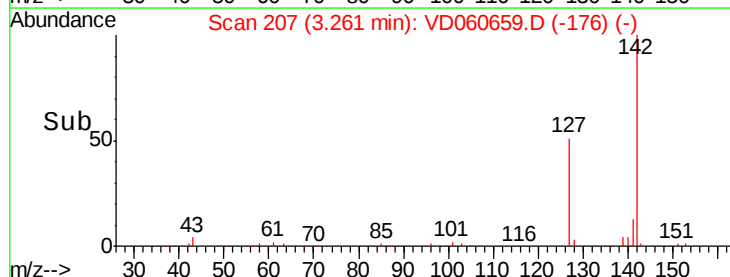
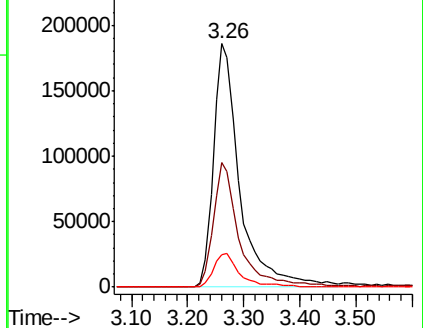
141 13.2 11.3 16.9

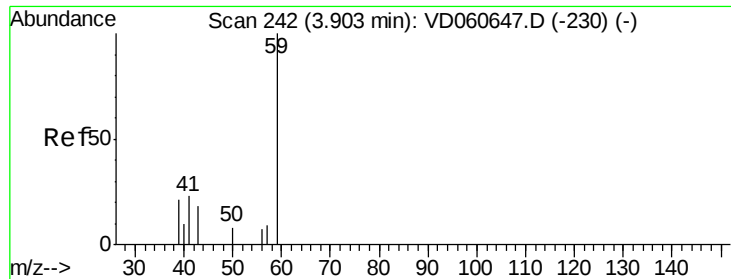


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



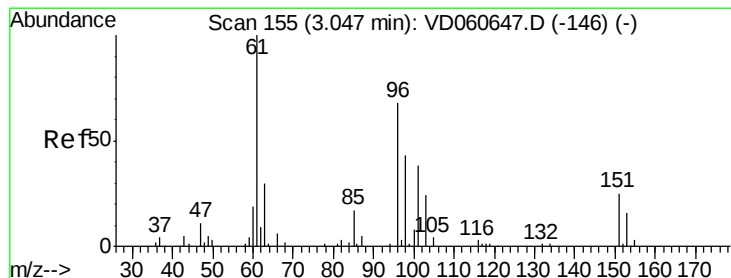
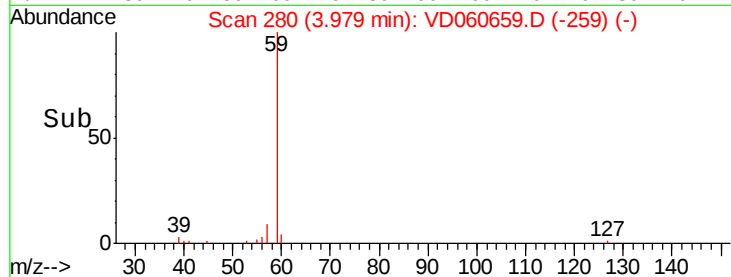
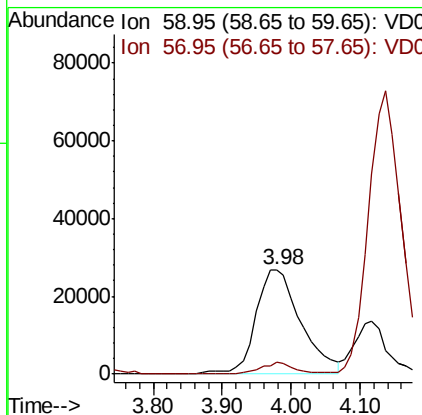
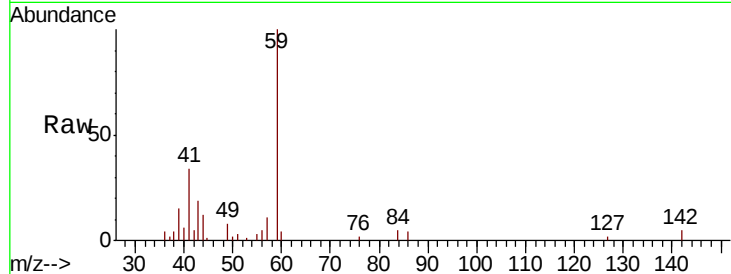


#11

Tert butyl alcohol
 Concen: 240.884 ug/l
 RT: 3.98 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

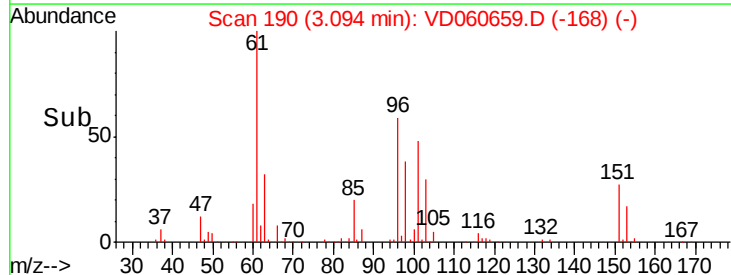
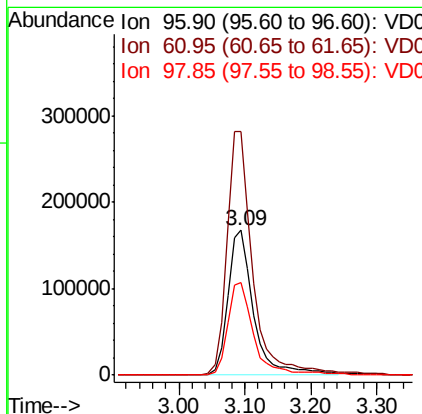
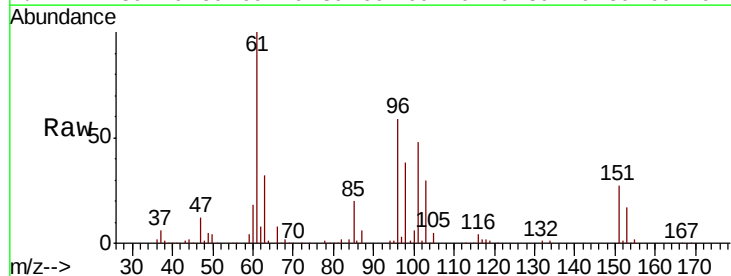
Tot Ion: 59 Resp: 122760
 Ion Ratio Lower Upper
 59 100
 57 11.5 7.8 11.6

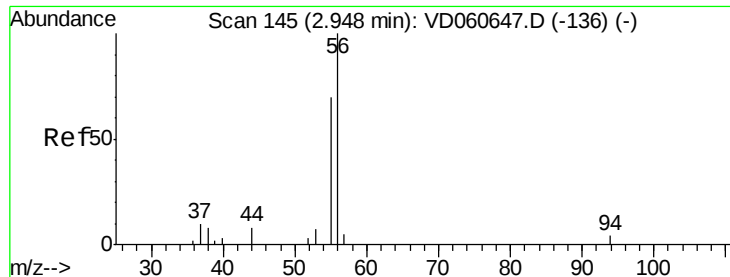


#12

1,1-Dichloroethene
 Concen: 46.664 ug/l
 RT: 3.09 min Scan# 190
 Delta R.T. 0.01 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 96 Resp: 455734
 Ion Ratio Lower Upper
 96 100
 61 168.2 136.2 204.4
 98 64.0 50.7 76.1





#13

Acrolein

Concen: 209.882 ug/l

RT: 3.00 min Scan# 180

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

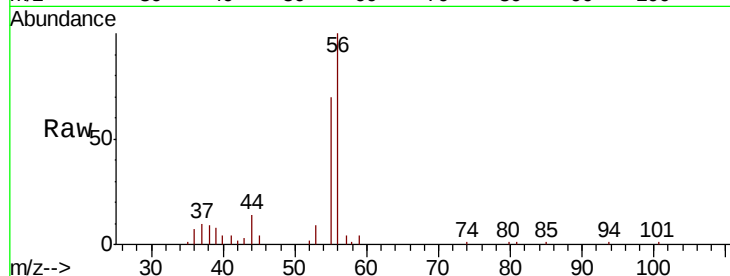
ICVVD122018

Tot Ion: 56 Resp: 108998

Ion Ratio Lower Upper

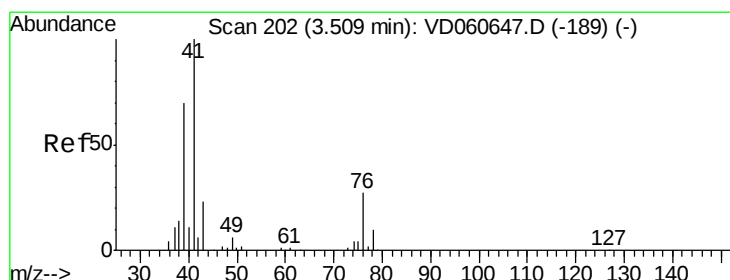
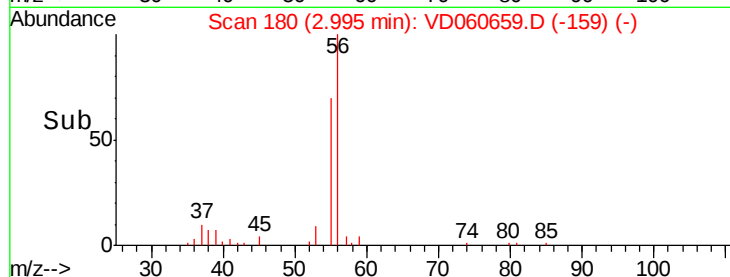
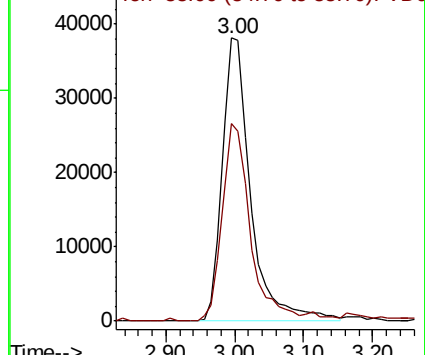
56 100

55 70.0 57.7 86.5



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 46.947 ug/l

RT: 3.56 min Scan# 237

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

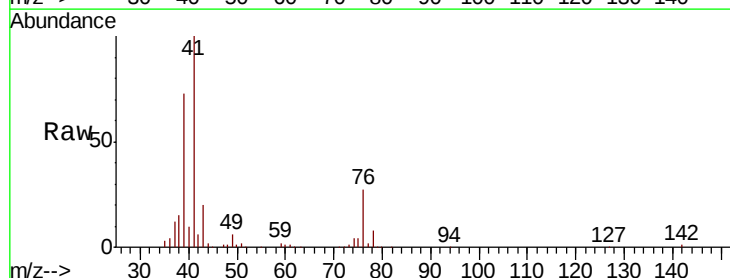
Tgt Ion: 41 Resp: 841308

Ion Ratio Lower Upper

41 100

39 72.6 59.6 89.4

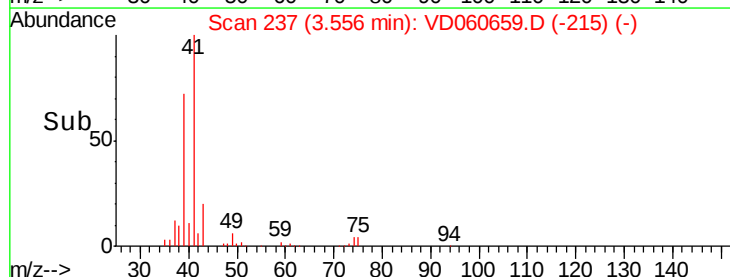
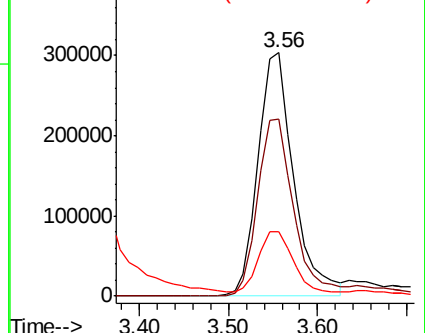
76 26.6 21.8 32.6

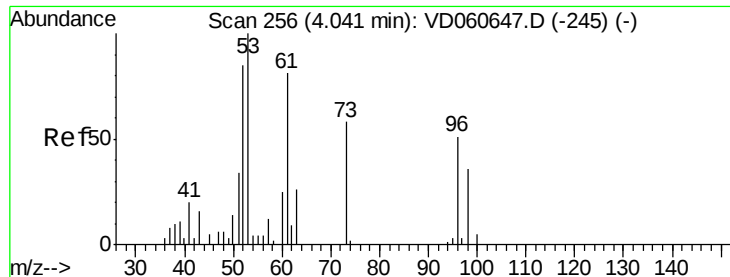


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 227.711 ug/l

RT: 4.10 min Scan# 292

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampled :

ICVVD122018

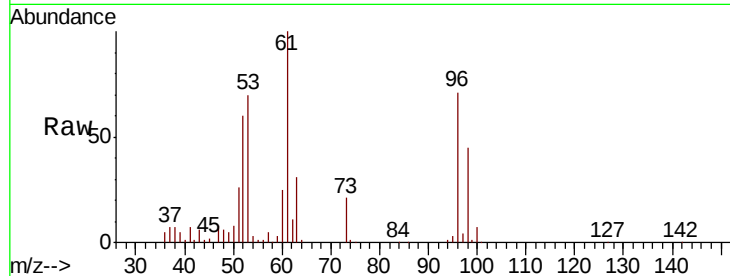
Tot Ion: 53 Resp: 673726

Ion Ratio Lower Upper

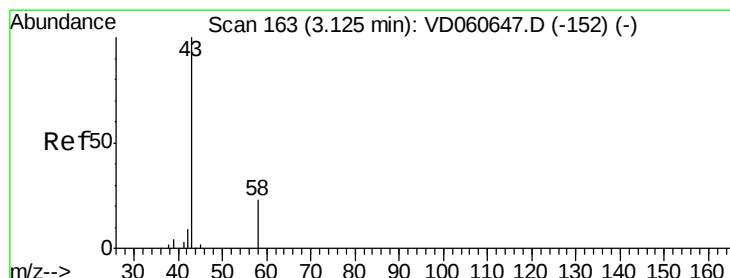
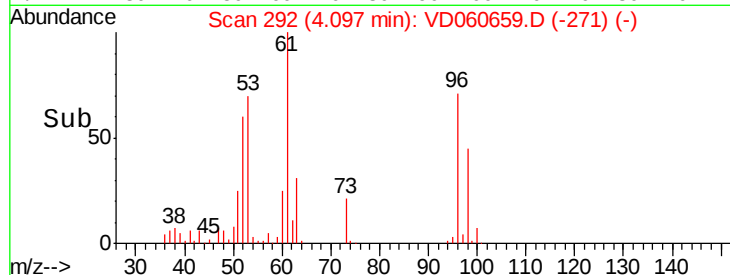
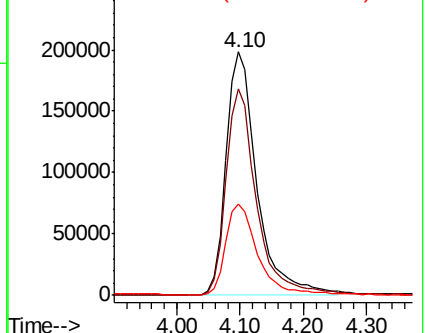
53 100

52 84.7 66.7 100.1

51 37.3 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: 234.690 ug/l

RT: 3.17 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD060659.D

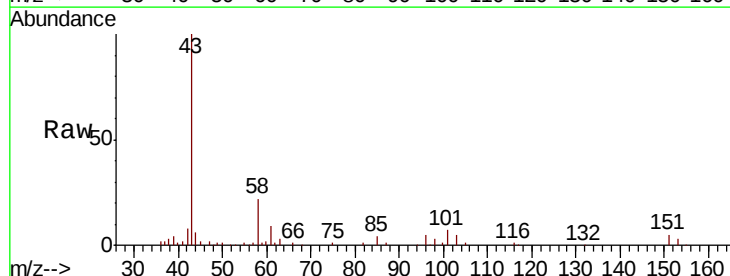
Acq: 20 Dec 2018 15:18

Tgt Ion: 43 Resp: 499784

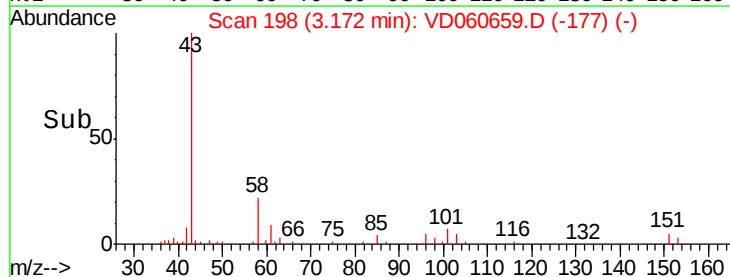
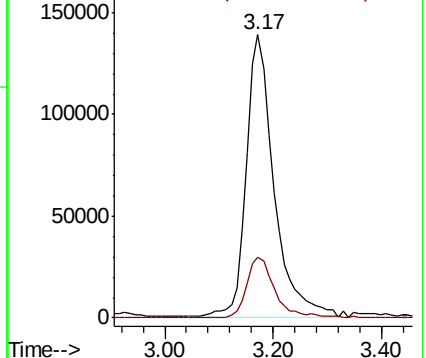
Ion Ratio Lower Upper

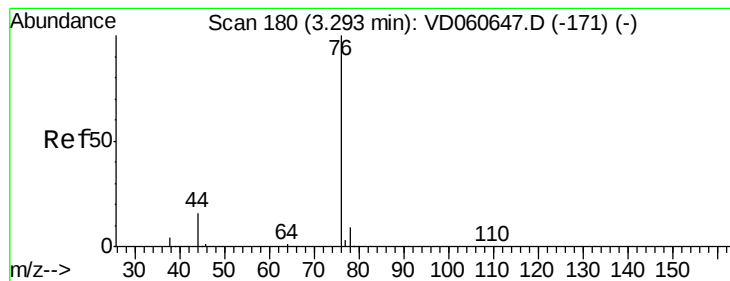
43 100

58 21.6 18.2 27.2



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





#17

Carbon Disulfide

Concen: 49.045 ug/l

RT: 3.33 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

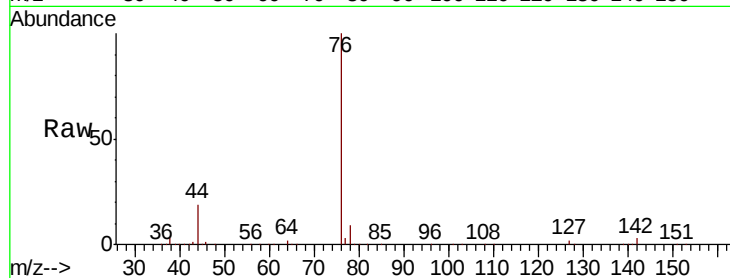
ICVVD122018

Tot Ion: 76 Resp: 1529719

Ion Ratio Lower Upper

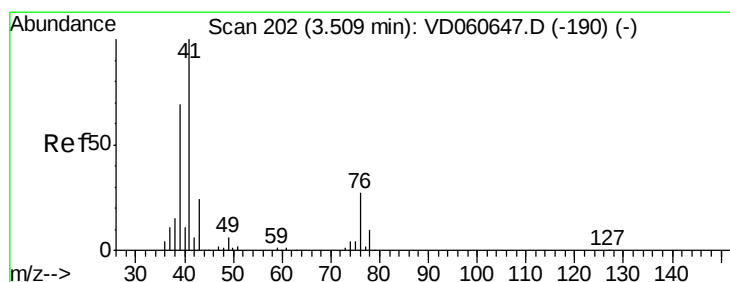
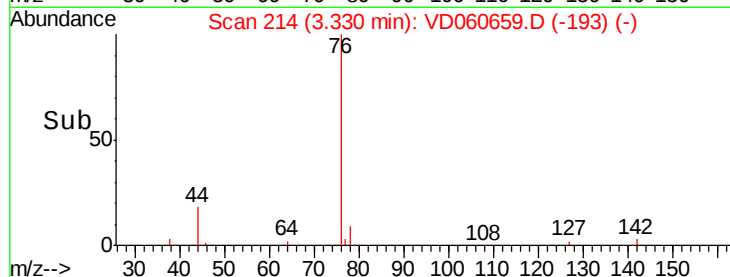
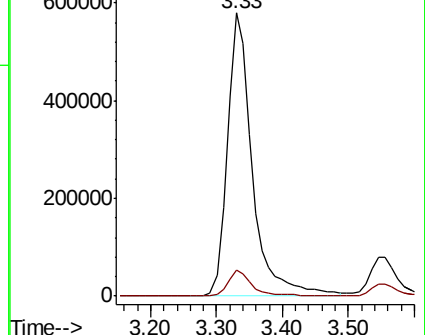
76 100

78 9.1 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 45.912 ug/l

RT: 3.57 min Scan# 238

Delta R.T. 0.00 min

Lab File: VD060659.D

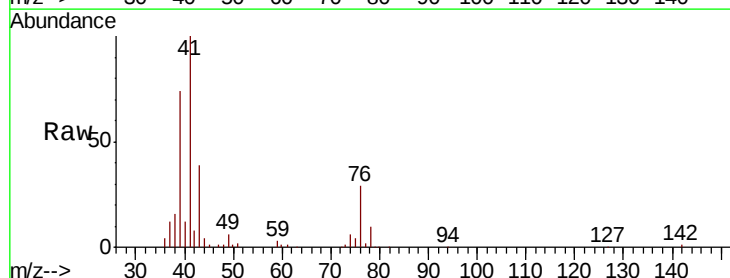
Acq: 20 Dec 2018 15:18

Tgt Ion: 43 Resp: 242308

Ion Ratio Lower Upper

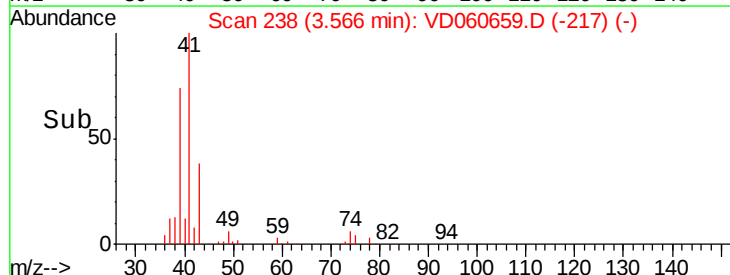
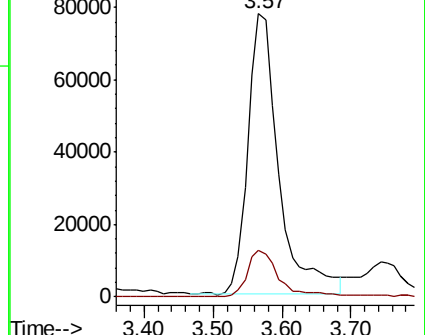
43 100

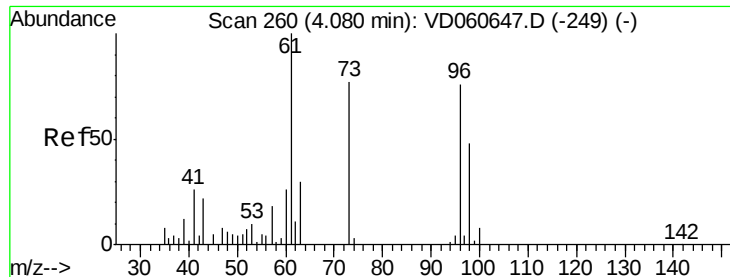
74 16.4 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

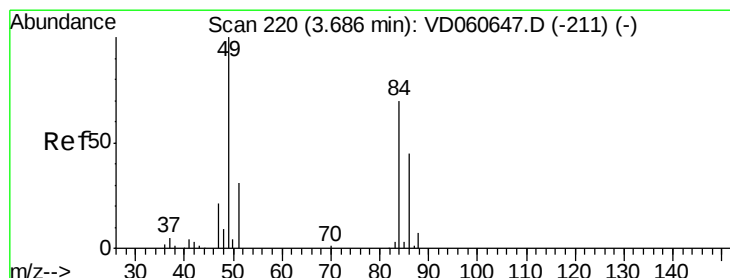
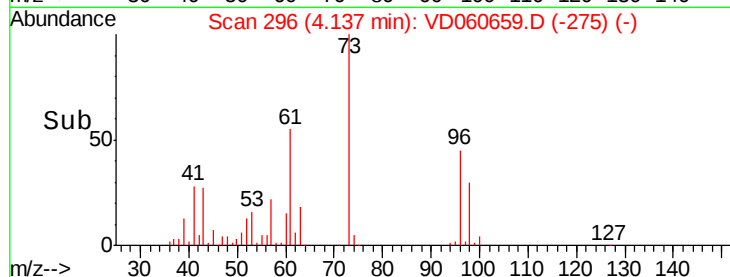
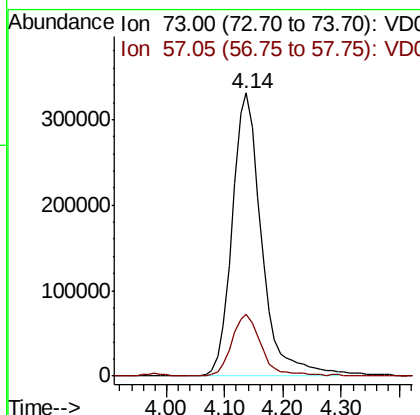
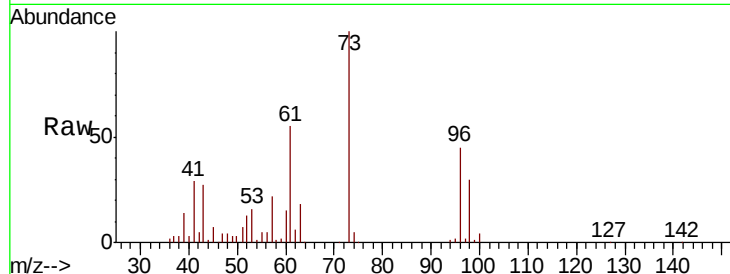




#19
Methyl tert-butyl Ether
Concen: 47.054 ug/l
RT: 4.14 min Scan# 296
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

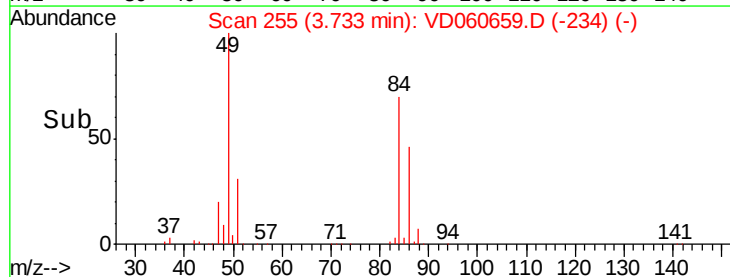
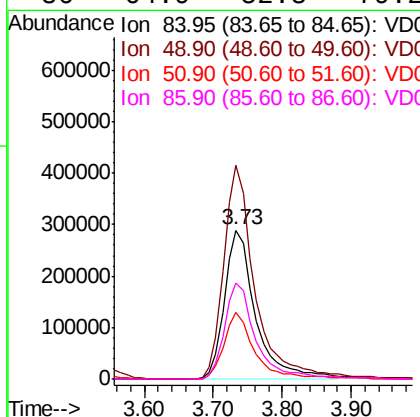
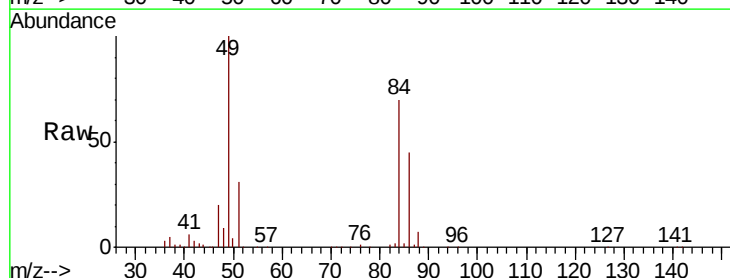
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

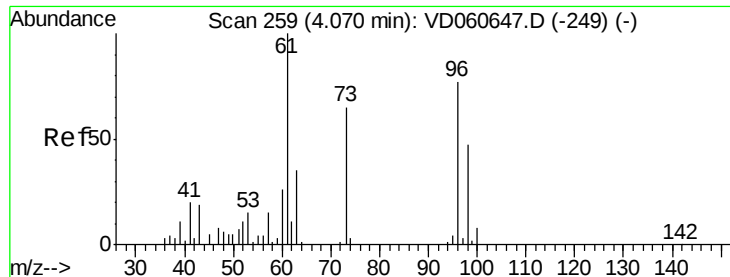
Tot Ion: 73 Resp: 1165891
Ion Ratio Lower Upper
73 100
57 22.0 17.6 26.4



#20
Methylene Chloride
Concen: 40.772 ug/l
RT: 3.73 min Scan# 255
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 84 Resp: 901707
Ion Ratio Lower Upper
84 100
49 143.9 113.6 170.4
51 44.7 34.7 52.1
86 64.9 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 46.989 ug/l

RT: 4.12 min Scan# 294

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

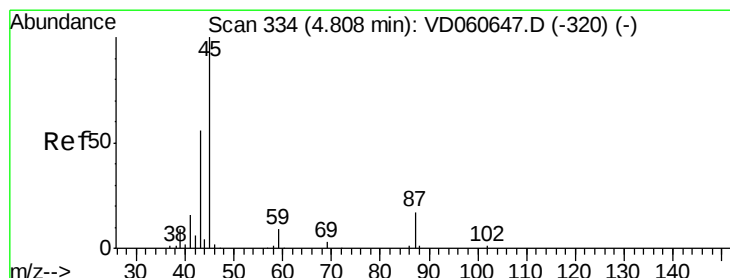
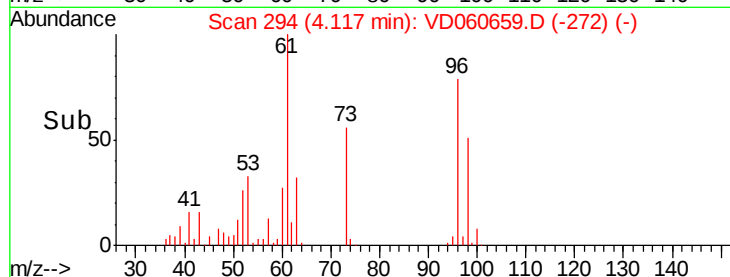
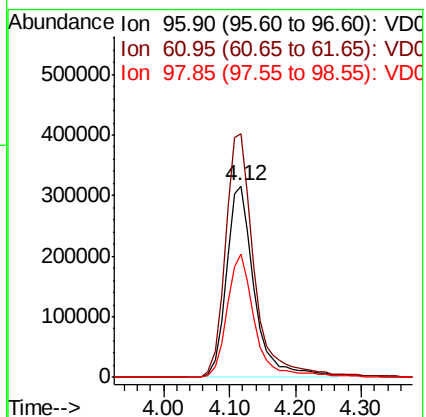
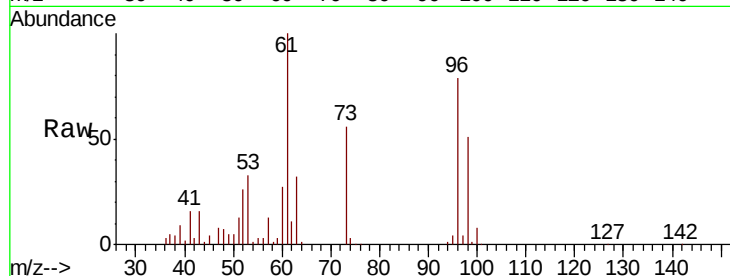
Tot Ion: 96 Resp: 939808

Ion Ratio Lower Upper

96 100

61 127.1 104.2 156.2

98 64.4 51.2 76.8



#22

Diisopropyl ether

Concen: 46.503 ug/l

RT: 4.86 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Tgt Ion: 45 Resp: 2829494

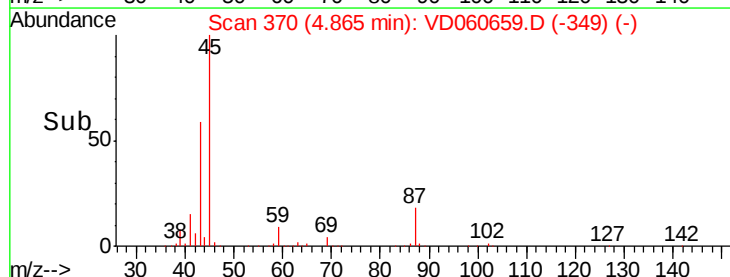
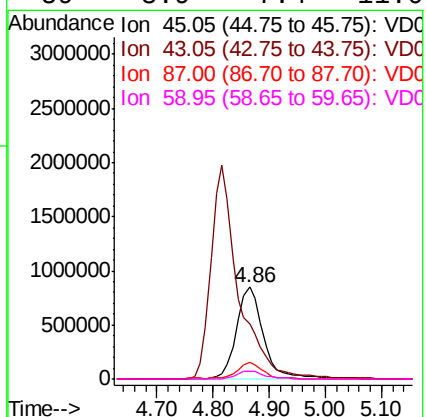
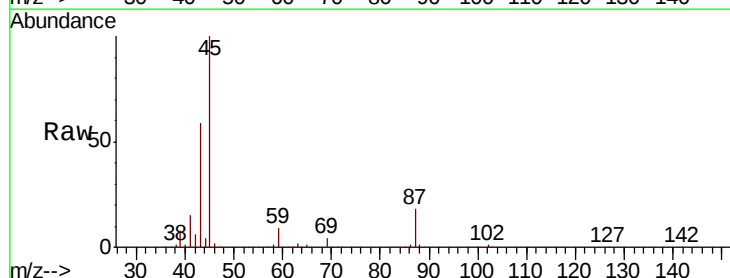
Ion Ratio Lower Upper

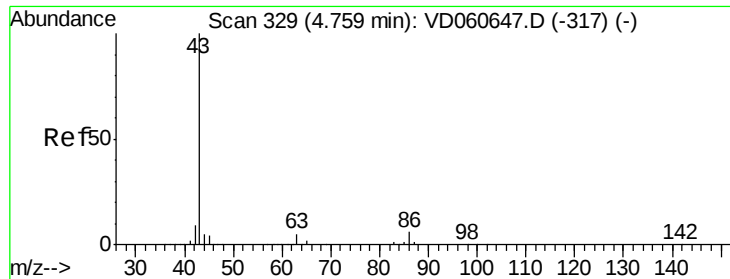
45 100

43 59.5 46.1 69.1

87 18.0 13.7 20.5

59 8.9 7.4 11.0

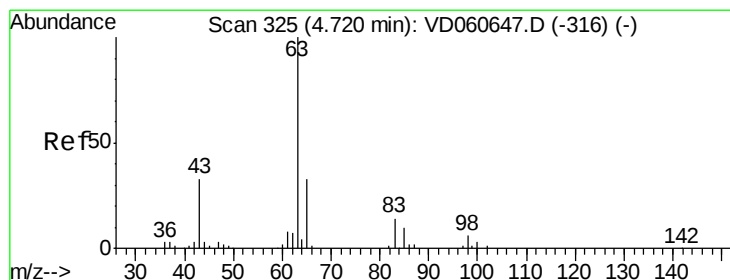
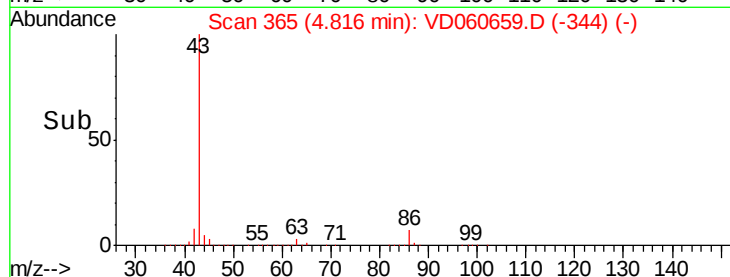
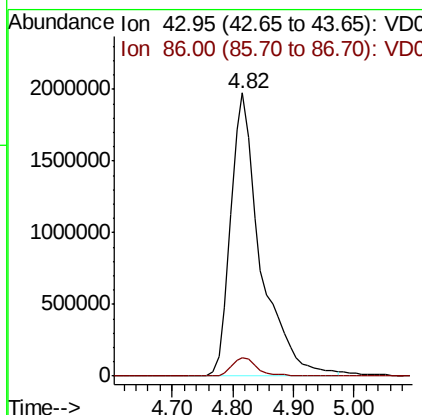
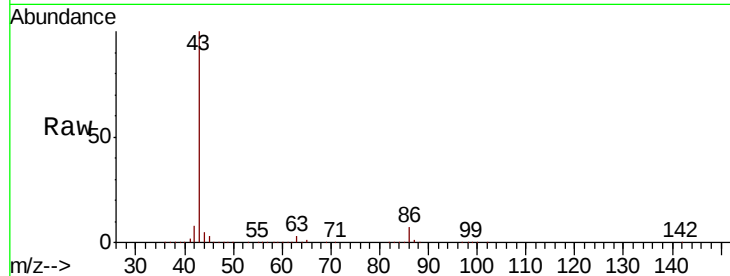




#23
 Vinyl Acetate
 Concen: 230.076 ug/l
 RT: 4.82 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

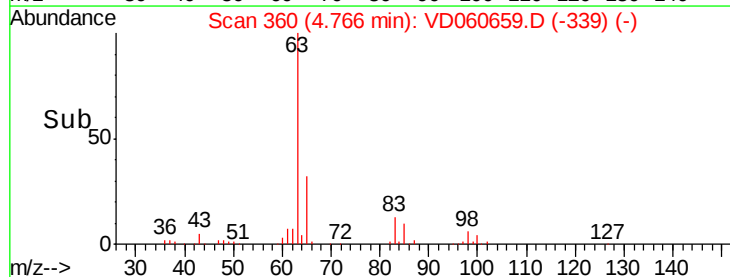
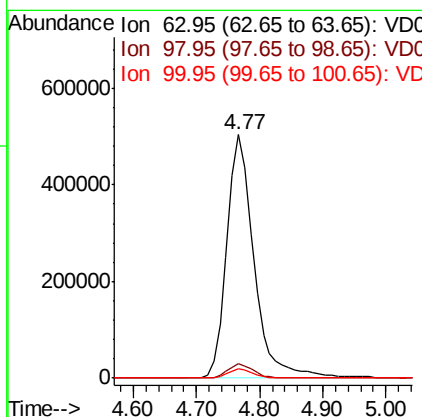
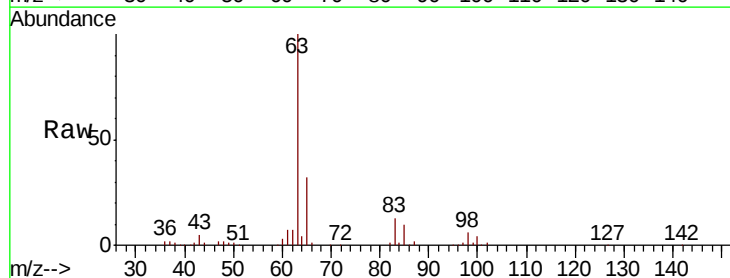
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

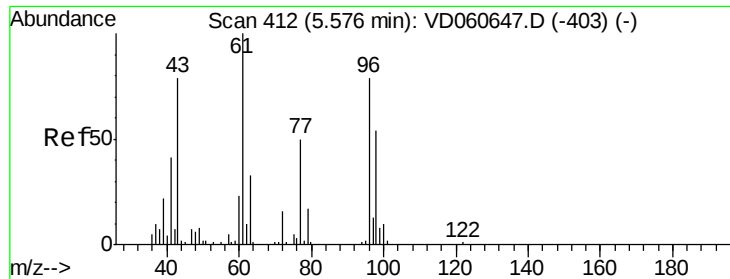
Tot Ion: 43 Resp: 6772745
 Ion Ratio Lower Upper
 43 100
 86 6.5 5.6 8.4



#24
 1,1-Dichloroethane
 Concen: 47.020 ug/l
 RT: 4.77 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 63 Resp: 1504834
 Ion Ratio Lower Upper
 63 100
 98 5.8 2.9 8.7
 100 3.6 2.0 5.8





#25

2-Butanone

Concen: 231.564 ug/l

RT: 5.63 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

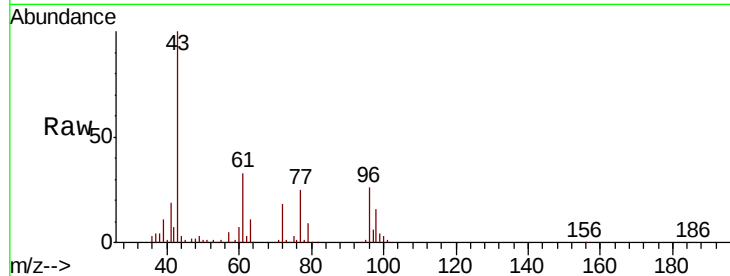
ICVVD122018

Tot Ion: 43 Resp: 943636

Ion Ratio Lower Upper

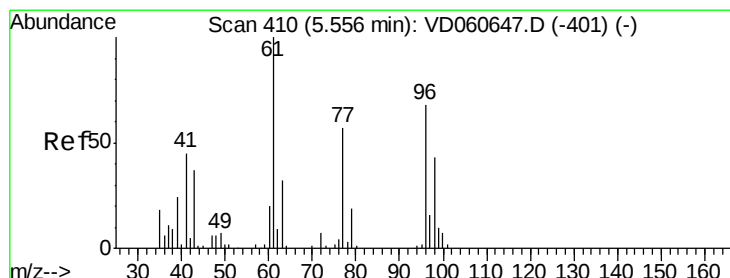
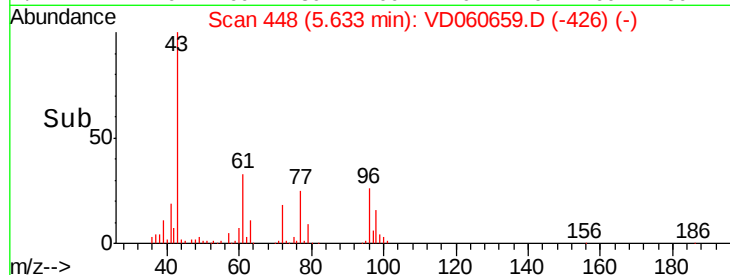
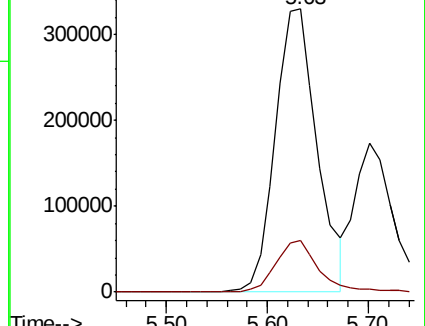
43 100

72 18.1 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: 47.321 ug/l

RT: 5.59 min Scan# 444

Delta R.T. 0.00 min

Lab File: VD060659.D

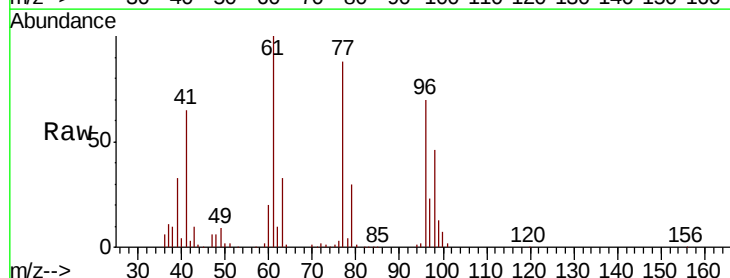
Acq: 20 Dec 2018 15:18

Tgt Ion: 77 Resp: 1195462

Ion Ratio Lower Upper

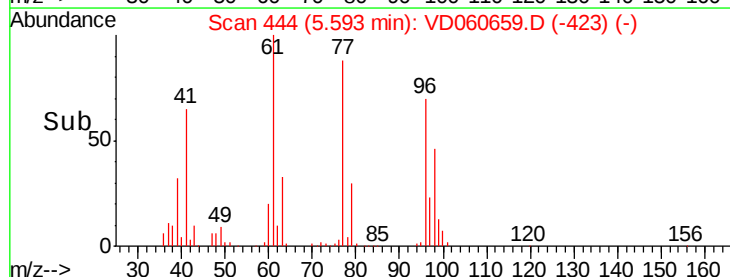
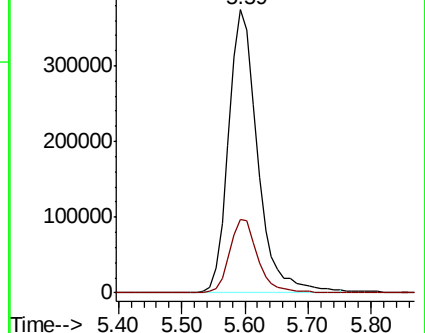
77 100

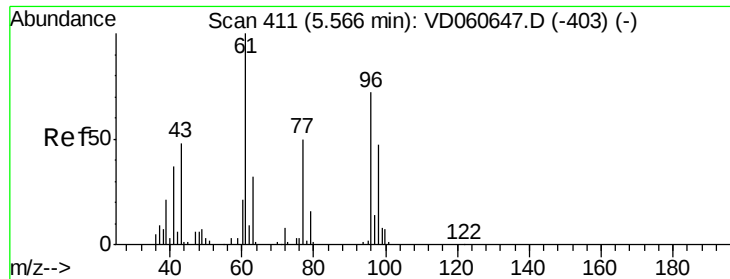
97 25.9 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



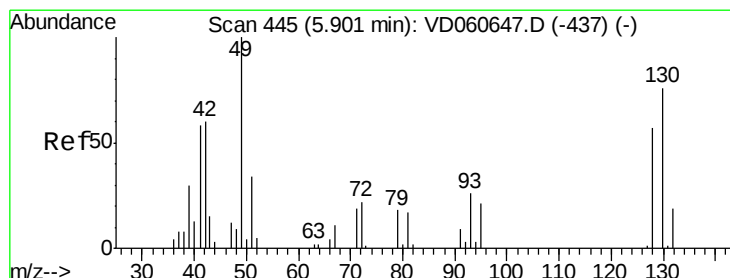
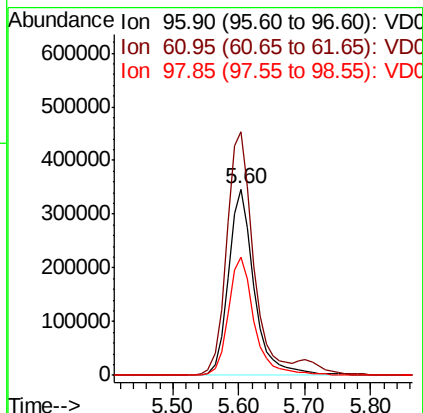
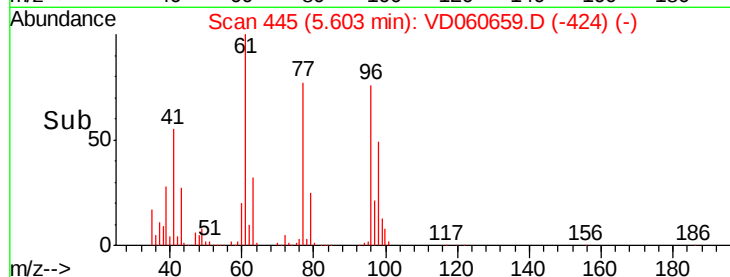
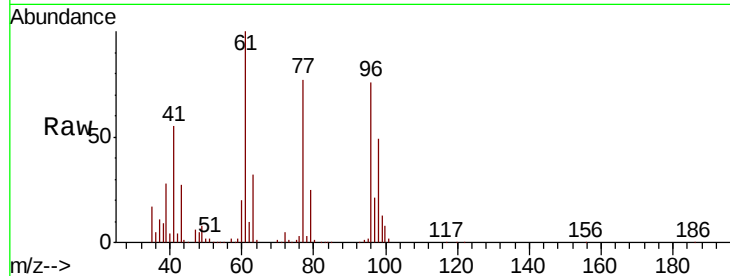


#27

cis-1,2-Dichloroethene
Concen: 46.834 ug/l
RT: 5.60 min Scan# 445
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

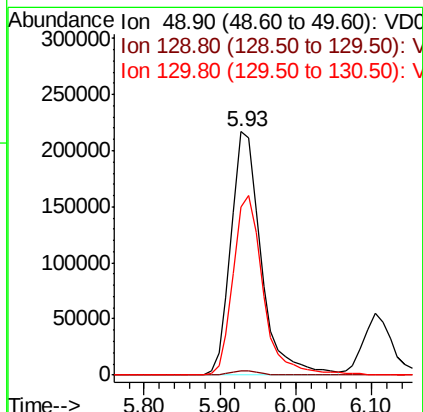
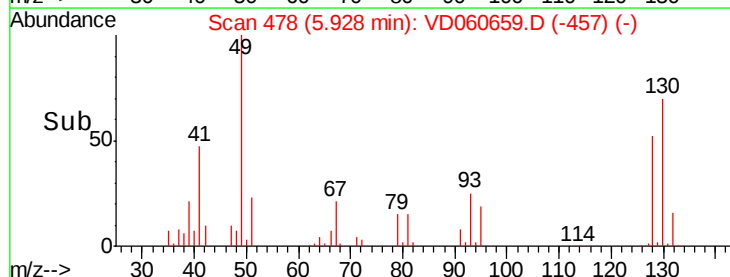
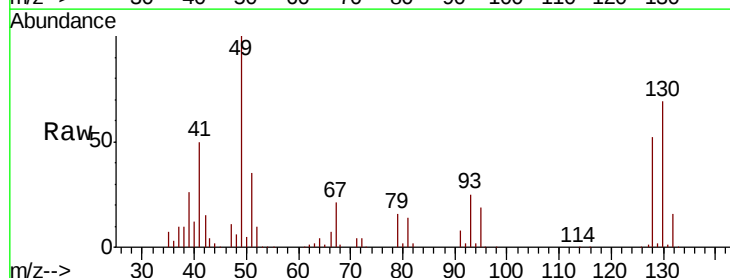
Tot Ion: 96 Resp: 950896
Ion Ratio Lower Upper
96 100
61 130.8 0.0 259.4
98 63.6 0.0 130.0

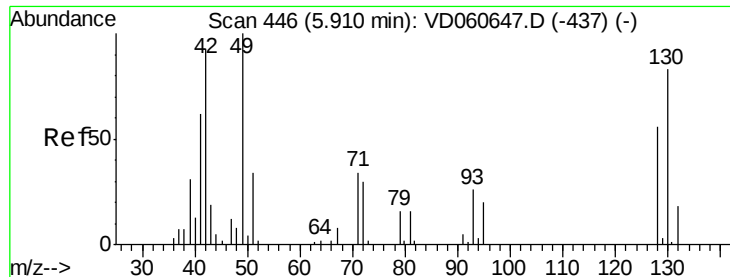


#28

Bromochloromethane
Concen: 44.250 ug/l
RT: 5.93 min Scan# 478
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 49 Resp: 598278
Ion Ratio Lower Upper
49 100
129 1.6 0.0 3.4
130 69.3 56.2 84.2

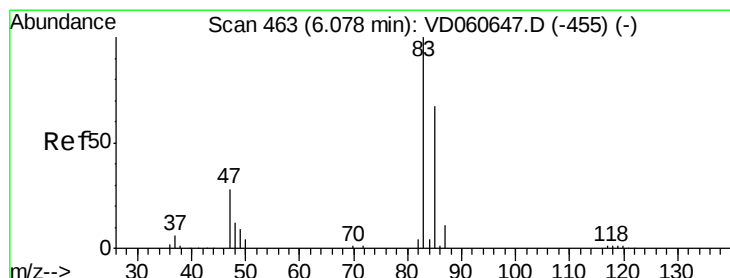
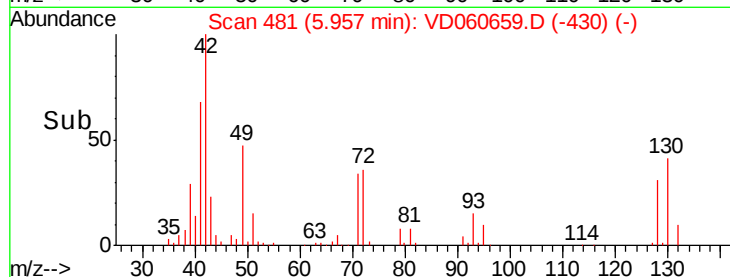
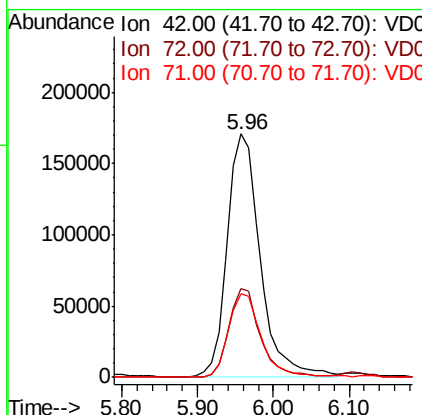
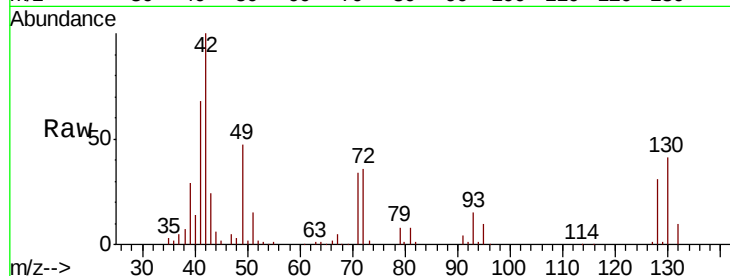




#29
Tetrahydrofuran
Concen: 224.310 ug/l
RT: 5.96 min Scan# 481
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

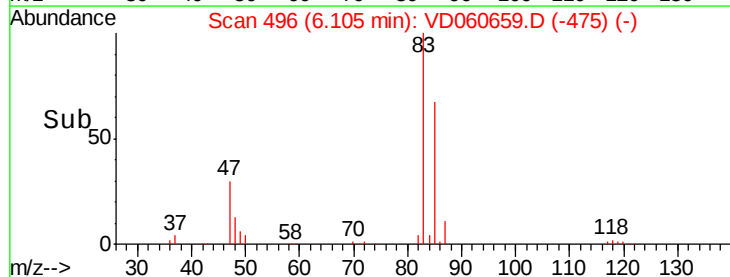
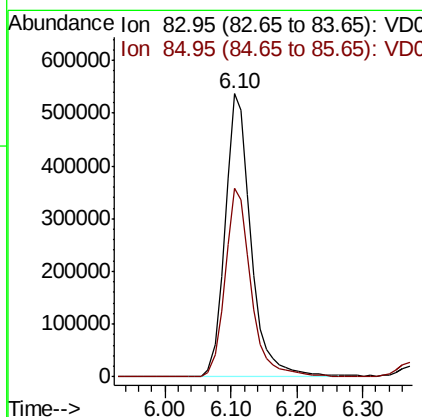
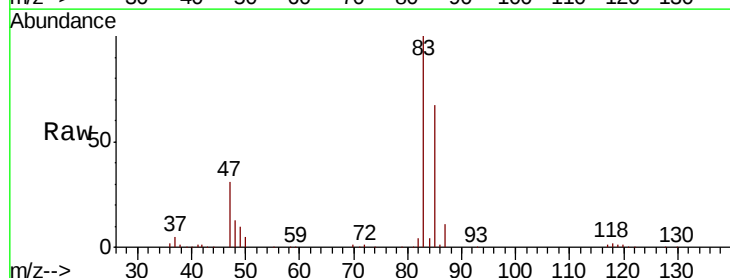
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

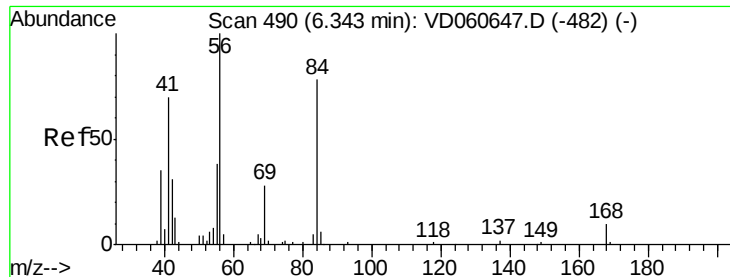
Tot Ion: 42 Resp: 518189
Ion Ratio Lower Upper
42 100
72 34.8 28.0 42.0
71 34.0 27.0 40.6



#30
Chloroform
Concen: 45.752 ug/l
RT: 6.10 min Scan# 496
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 83 Resp: 1473369
Ion Ratio Lower Upper
83 100
85 66.5 53.0 79.6





#31

Cyclohexane

Concen: 46.252 ug/l

RT: 6.37 min Scan# 523

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

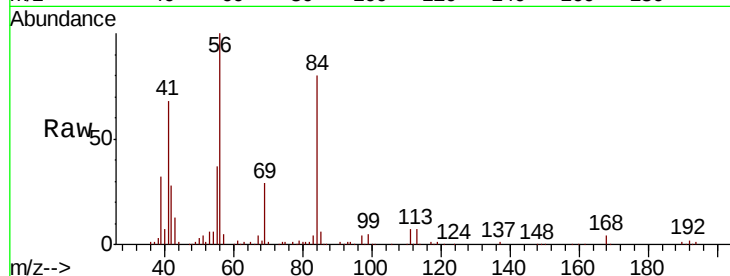
Tot Ion: 56 Resp: 1424508

Ion Ratio Lower Upper

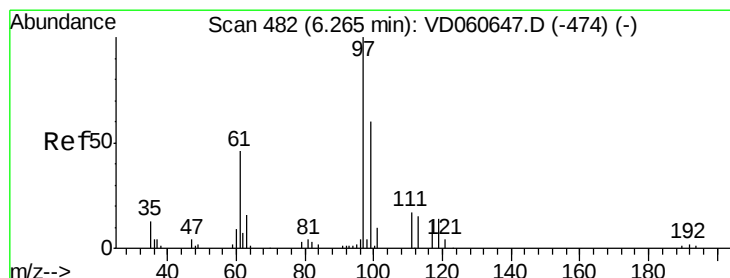
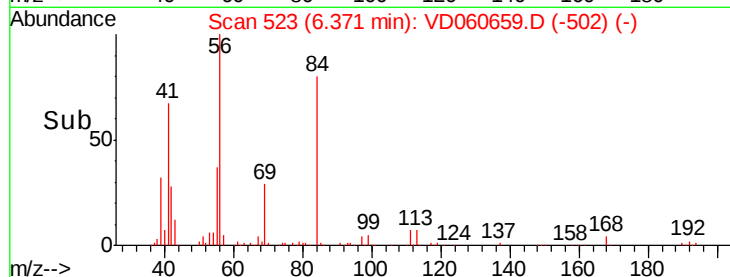
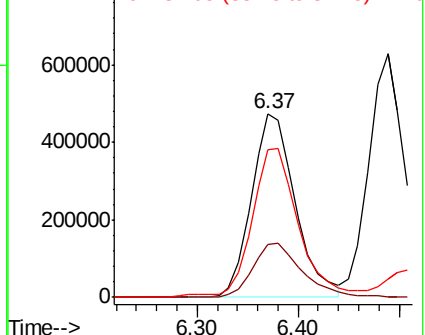
56 100

69 28.9 23.6 35.4

84 80.3 65.8 98.6



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



#32

1,1,1-Trichloroethane

Concen: 48.107 ug/l

RT: 6.30 min Scan# 516

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

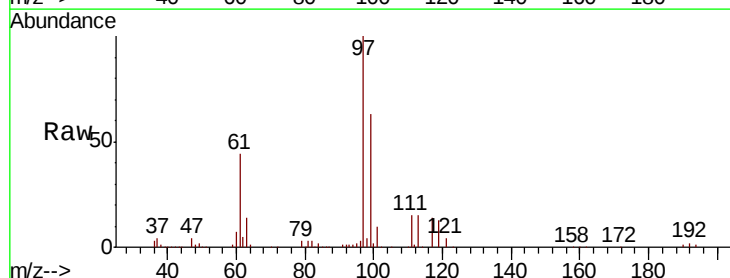
Tgt Ion: 97 Resp: 1281725

Ion Ratio Lower Upper

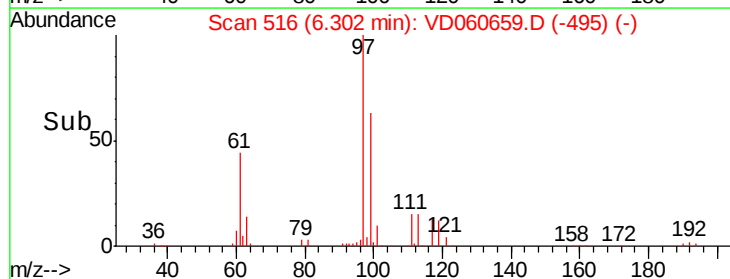
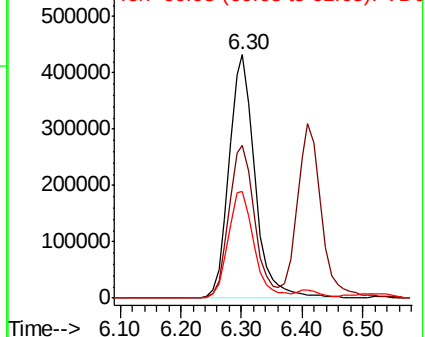
97 100

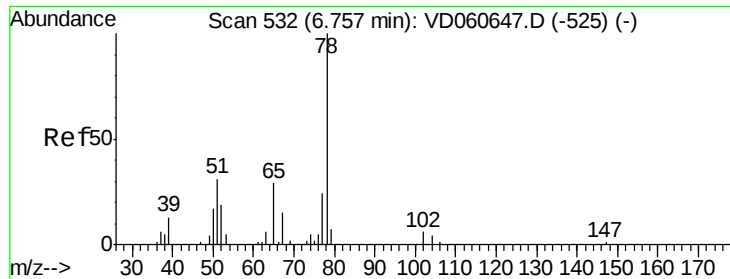
99 62.8 50.5 75.7

61 43.9 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

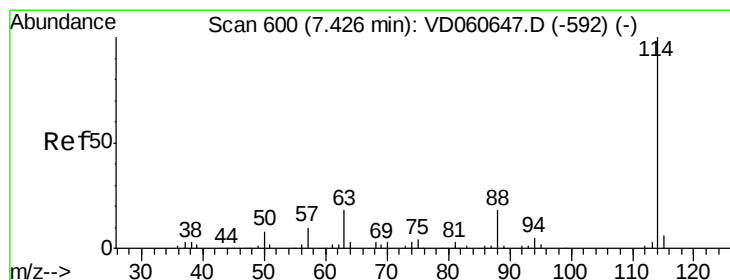
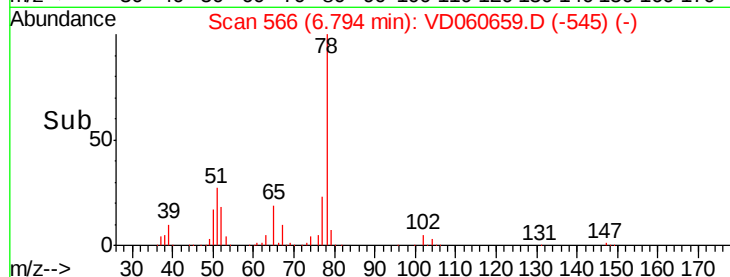
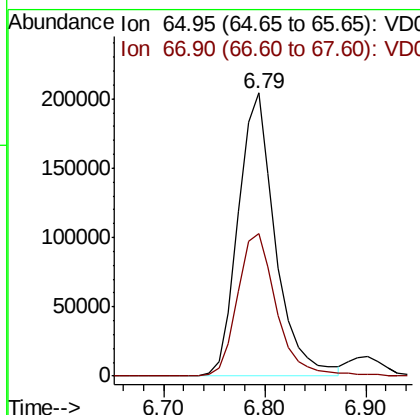
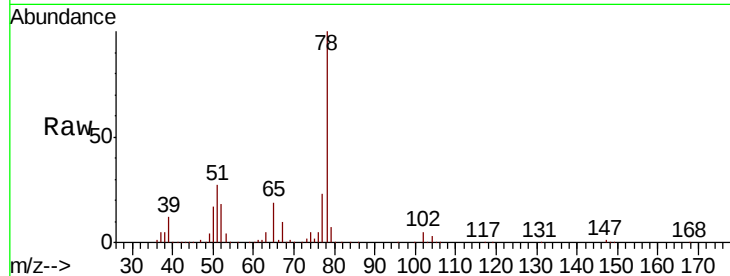




#33
 1,2-Dichloroethane-d4
 Concen: 48.107 ug/l
 RT: 6.79 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

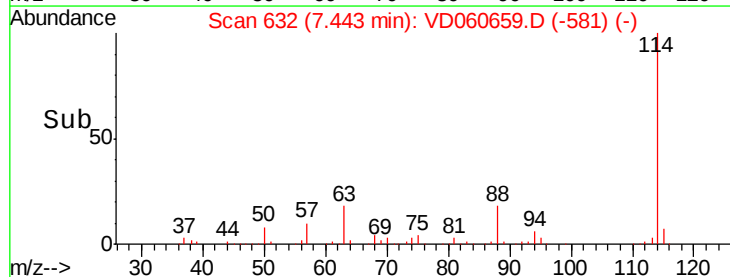
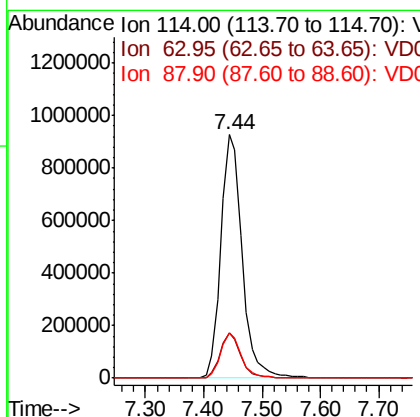
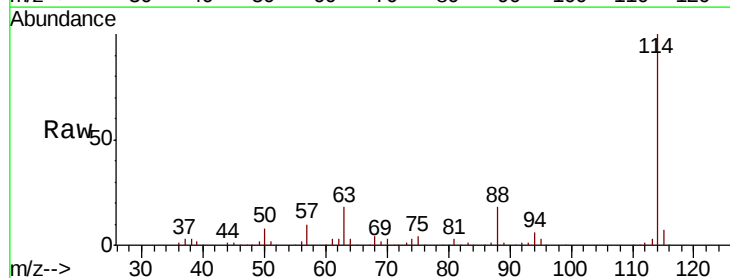
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

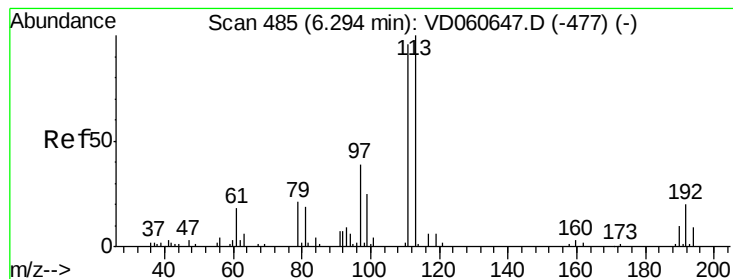
Tot Ion: 65 Resp: 522171
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 114 Resp: 2350097
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.2
 88 18.4 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 519

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

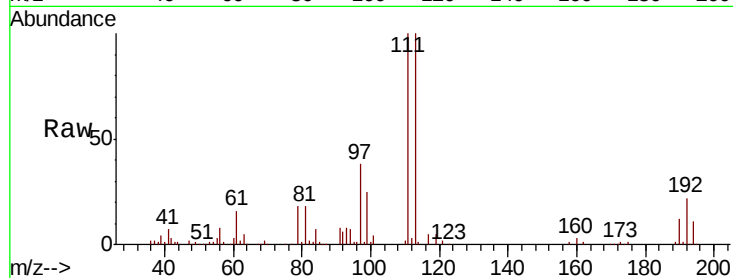
Tot Ion:113 Resp: 783621

Ion Ratio Lower Upper

113 100

111 99.6 80.0 120.0

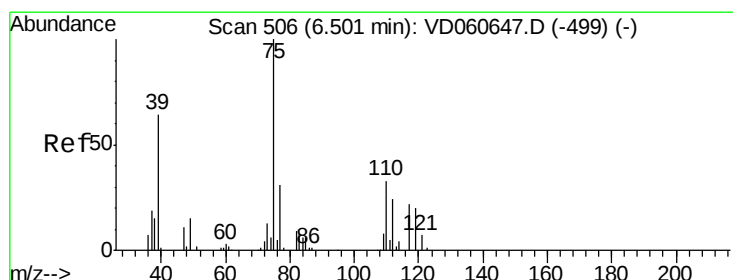
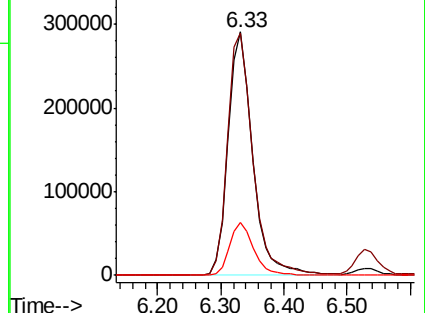
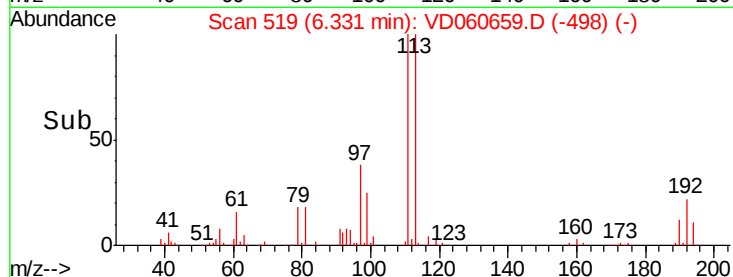
192 21.8 16.6 25.0



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



#36

1,1-Dichloropropene

Concen: 48.238 ug/l

RT: 6.53 min Scan# 539

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

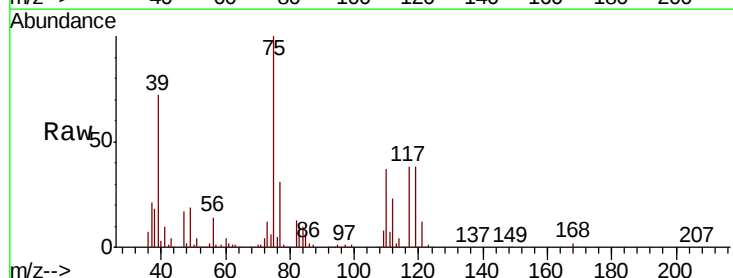
Tgt Ion: 75 Resp: 1167344

Ion Ratio Lower Upper

75 100

110 36.5 18.9 56.7

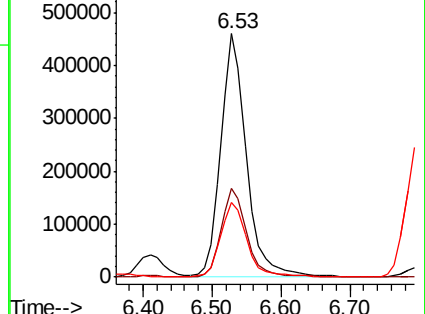
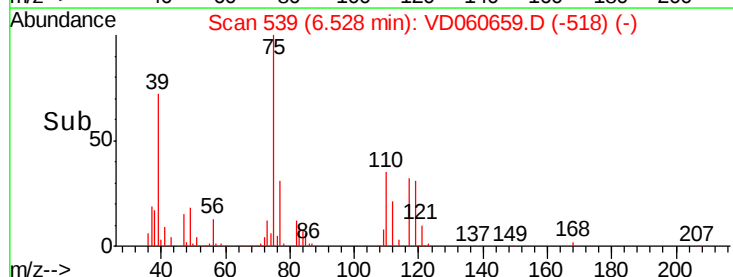
77 30.9 25.4 38.0

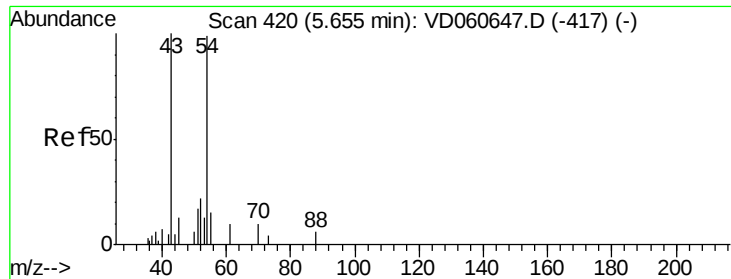


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

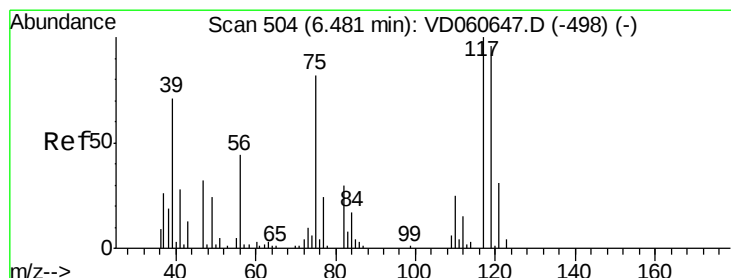
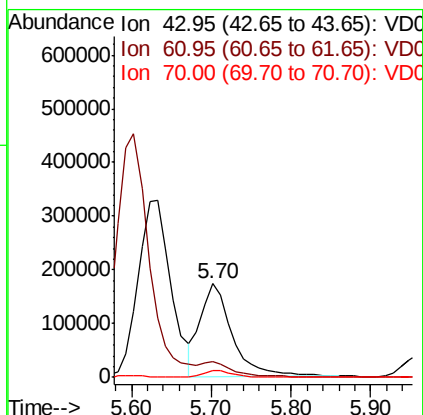
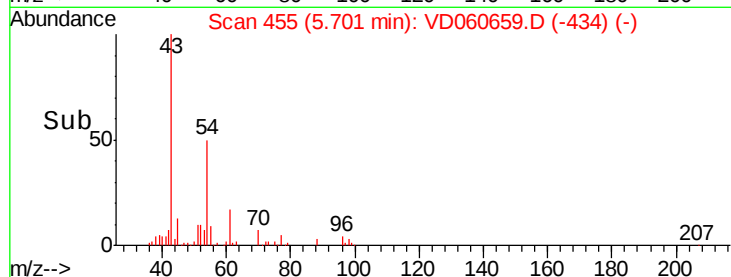
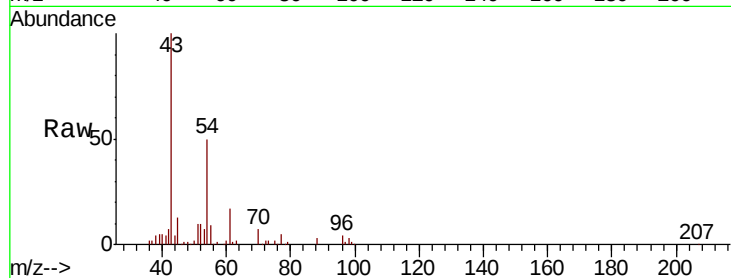




#37
Ethyl Acetate
Concen: 47.515 ug/l
RT: 5.70 min Scan# 455
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

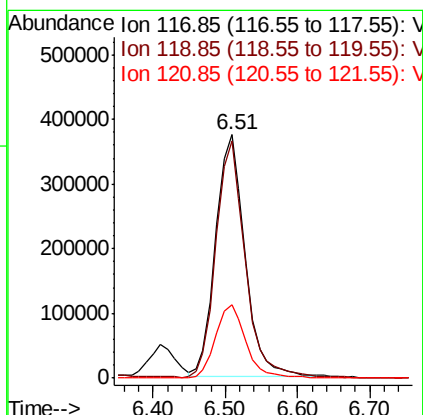
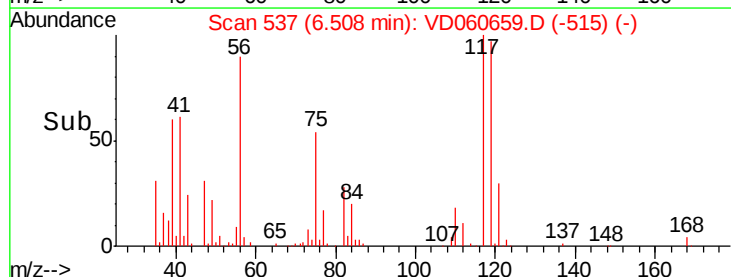
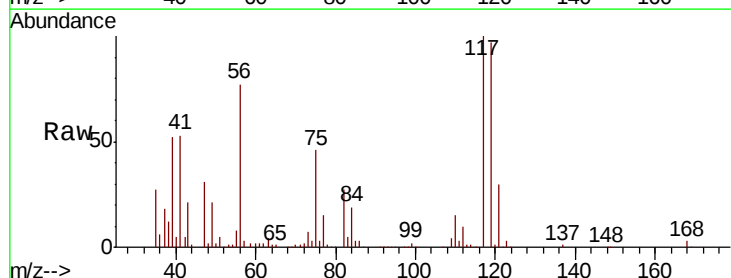
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

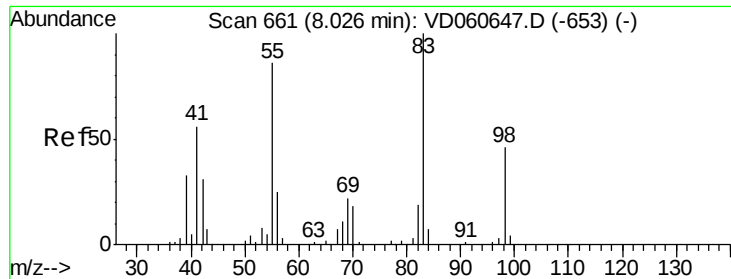
Tot Ion: 43 Resp: 480891
Ion Ratio Lower Upper
43 100
61 17.0 11.8 17.6
70 7.5 5.8 8.6



#38
Carbon Tetrachloride
Concen: 49.614 ug/l
RT: 6.51 min Scan# 537
Delta R.T. 0.01 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 117 Resp: 1059218
Ion Ratio Lower Upper
117 100
119 97.5 77.0 115.4
121 30.1 24.7 37.1

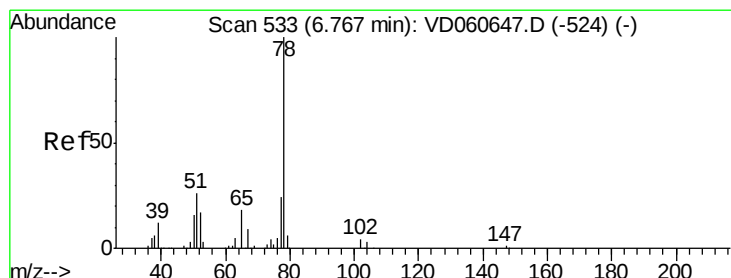
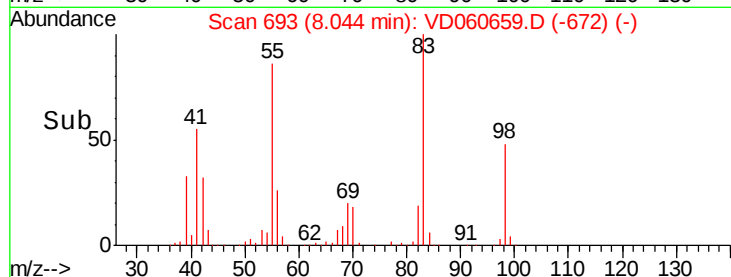
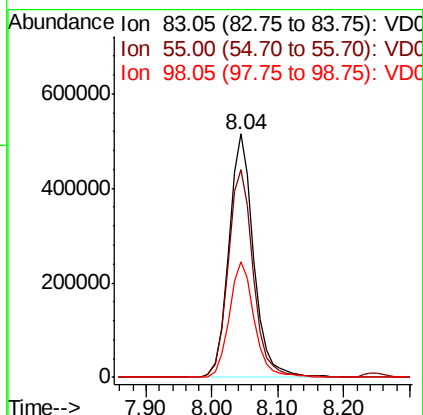
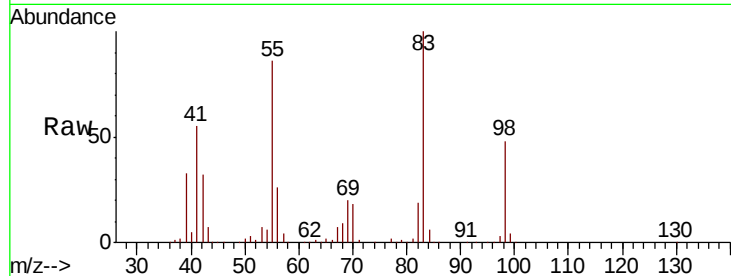




#39
Methvlcvclohexane
Concen: 49.154 ug/l
RT: 8.04 min Scan# 693
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

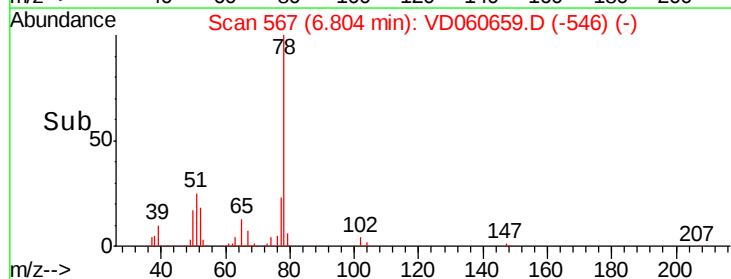
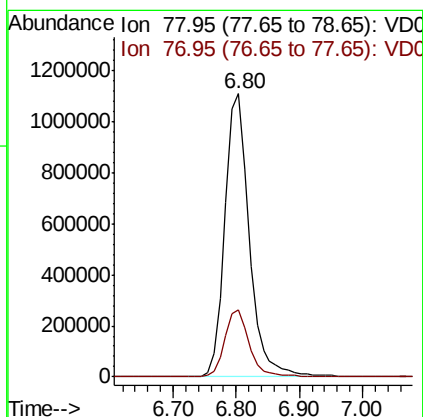
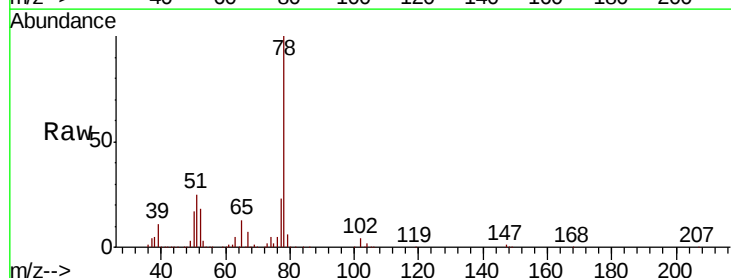
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

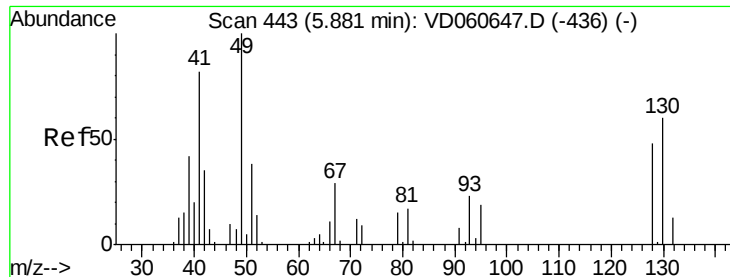
Tot Ion: 83 Resp: 1356626
Ion Ratio Lower Upper
83 100
55 85.6 68.6 102.8
98 47.7 38.1 57.1



#40
Benzene
Concen: 47.853 ug/l
RT: 6.80 min Scan# 567
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 78 Resp: 2991260
Ion Ratio Lower Upper
78 100
77 23.5 19.2 28.8





#41

Methacrylonitrile

Concen: 35.045 ug/l m

RT: 5.93 min Scan# 478

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

Tot Ion: 41 Resp: 196192

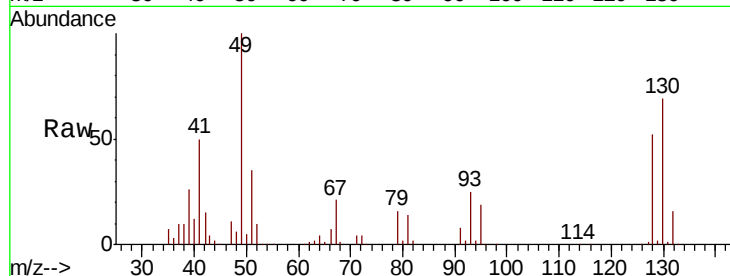
Ion Ratio Lower Upper

41 100

39 51.0 37.6 56.4

67 41.8 33.0 49.6

52 19.3 15.5 23.3

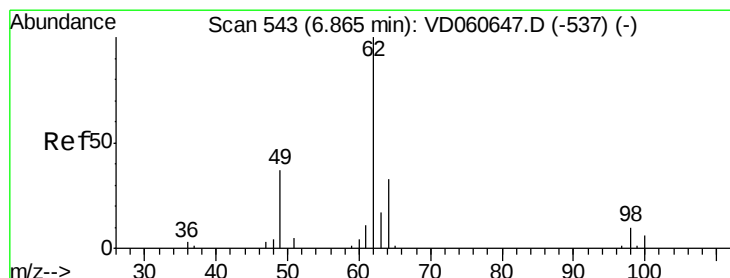
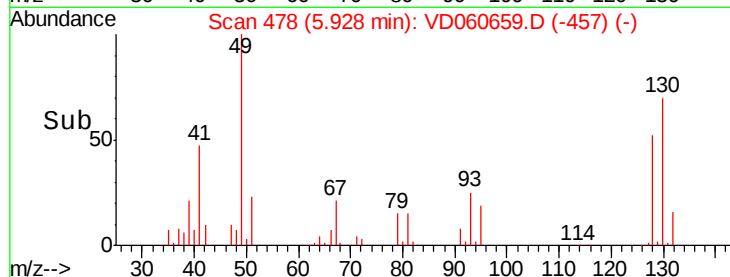
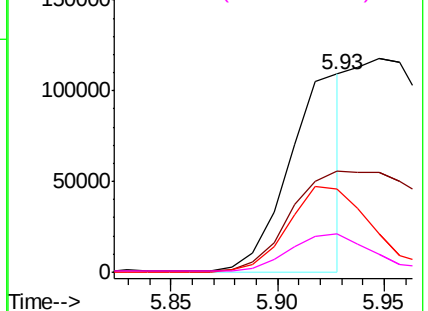


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 47.524 ug/l

RT: 6.90 min Scan# 577

Delta R.T. 0.00 min

Lab File: VD060659.D

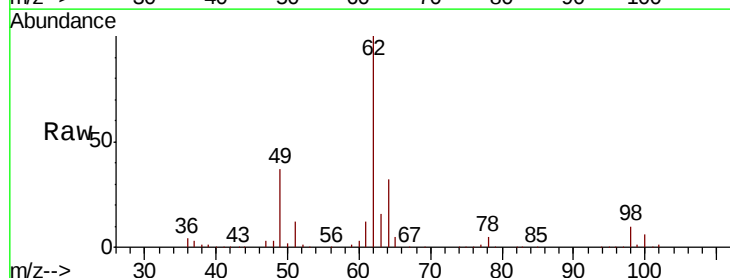
Acq: 20 Dec 2018 15:18

Tgt Ion: 62 Resp: 737195

Ion Ratio Lower Upper

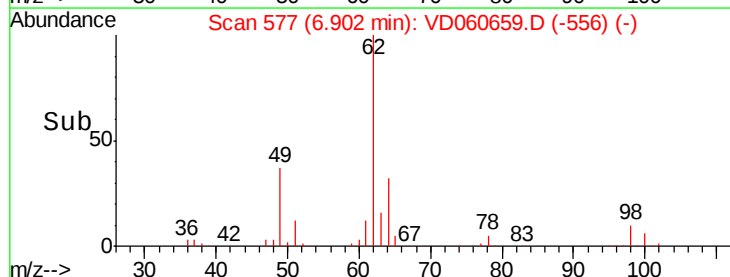
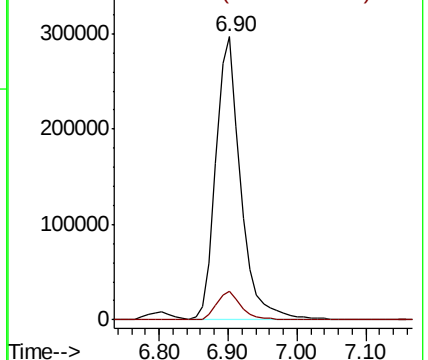
62 100

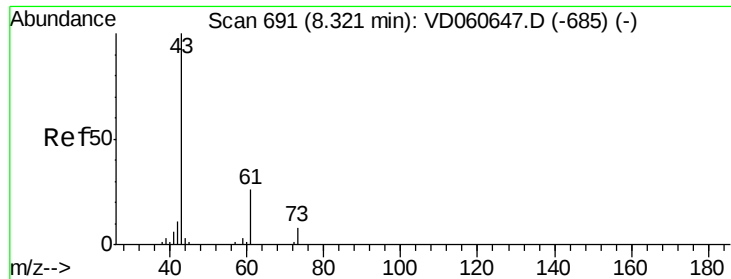
98 10.1 0.0 20.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 47.994 ug/l

RT: 8.35 min Scan# 724

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

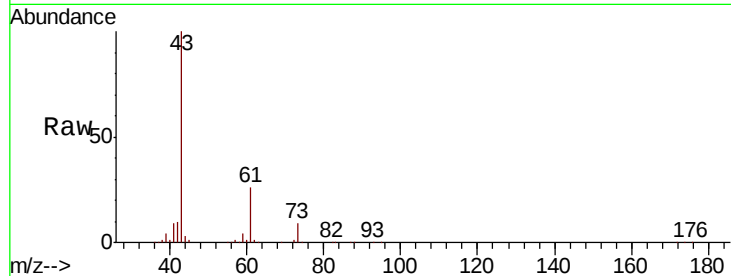
Tot Ion: 43 Resp: 623346

Ion Ratio Lower Upper

43 100

61 26.5 21.8 32.8

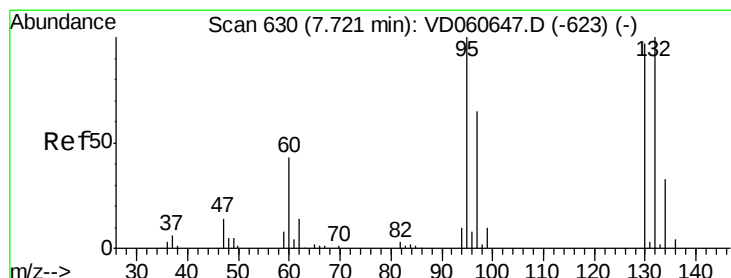
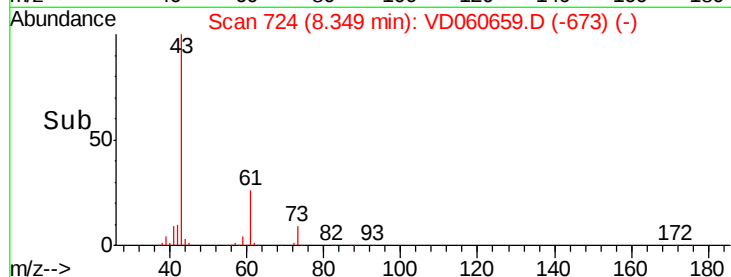
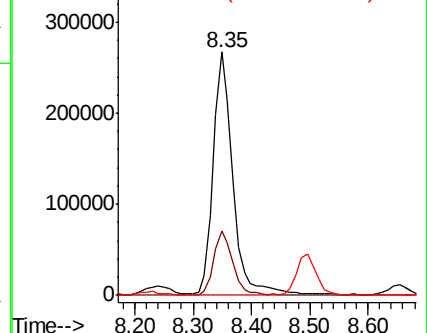
87 0.1 0.2 0.4#



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



#44

Trichloroethene

Concen: 50.117 ug/l

RT: 7.75 min Scan# 663

Delta R.T. 0.00 min

Lab File: VD060659.D

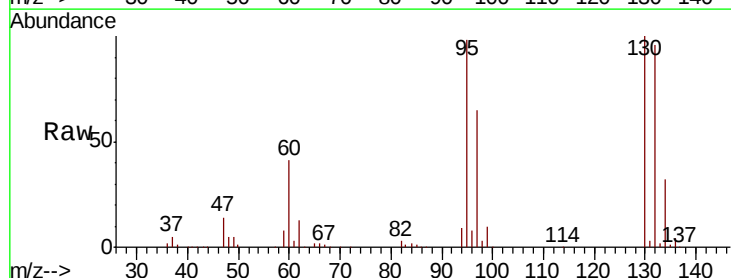
Acq: 20 Dec 2018 15:18

Tgt Ion:130 Resp: 927230

Ion Ratio Lower Upper

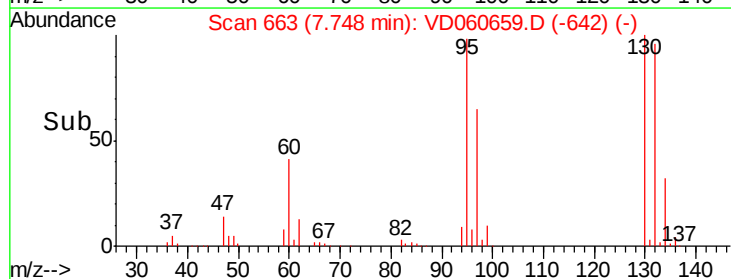
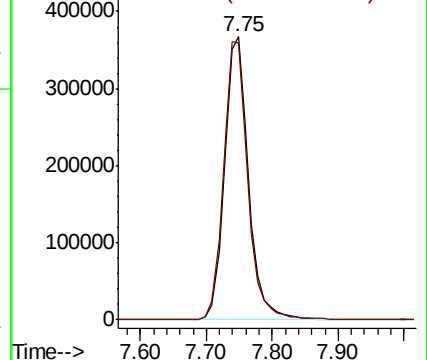
130 100

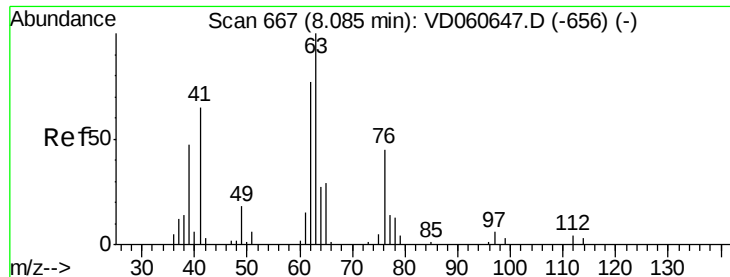
95 97.9 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 47.066 ug/l

RT: 8.10 min Scan# 699

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

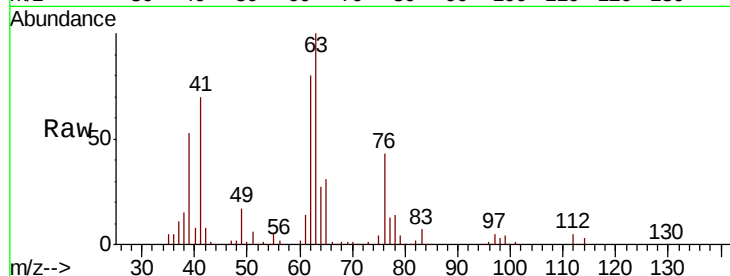
ICVVD122018

Tot Ion: 63 Resp: 721513

Ion Ratio Lower Upper

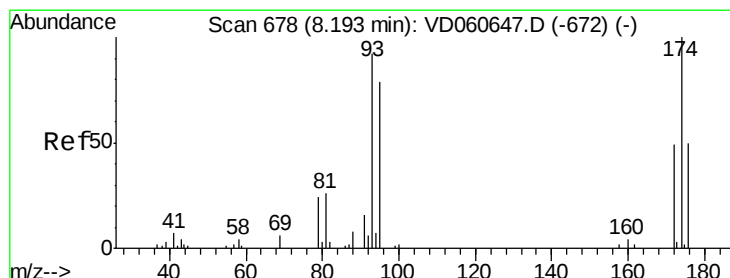
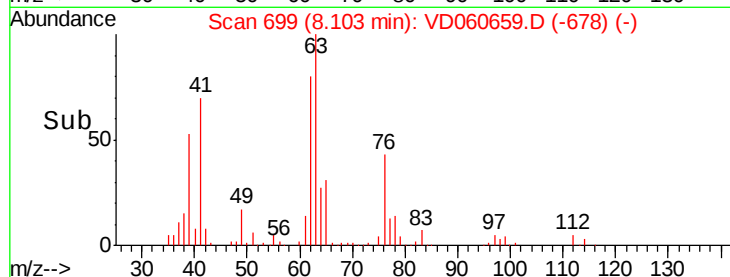
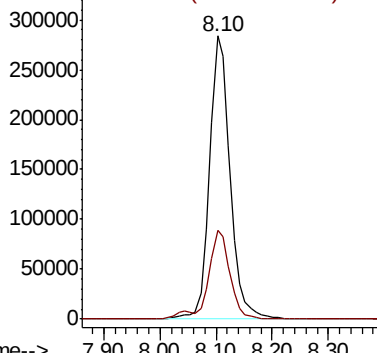
63 100

65 31.4 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: 48.301 ug/l

RT: 8.22 min Scan# 711

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

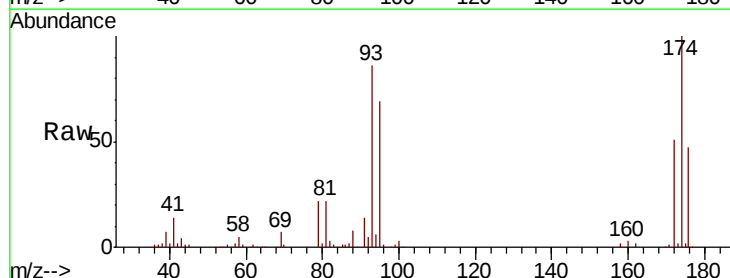
Tgt Ion: 93 Resp: 422594

Ion Ratio Lower Upper

93 100

95 81.0 68.8 103.2

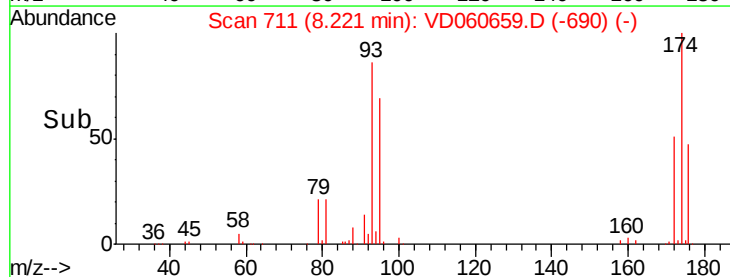
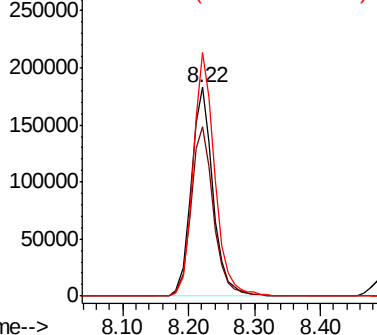
174 116.7 93.0 139.4

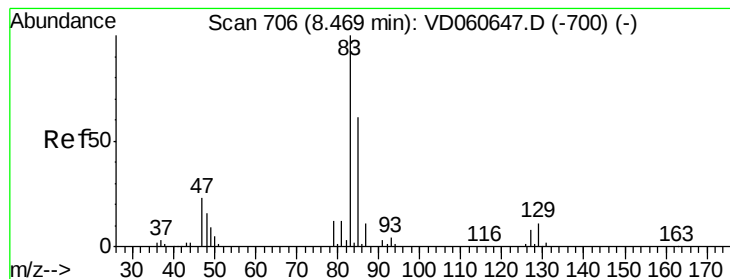


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 49.121 ug/l

RT: 8.50 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

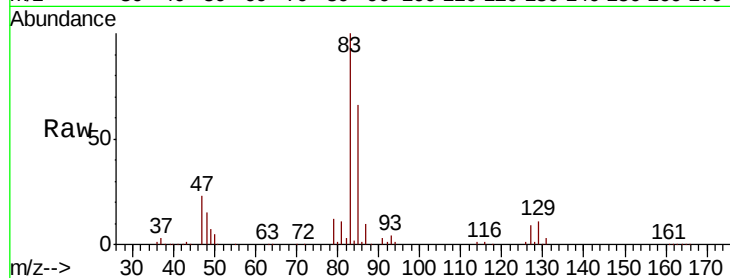
Tot Ion: 83 Resp: 1017897

Ion Ratio Lower Upper

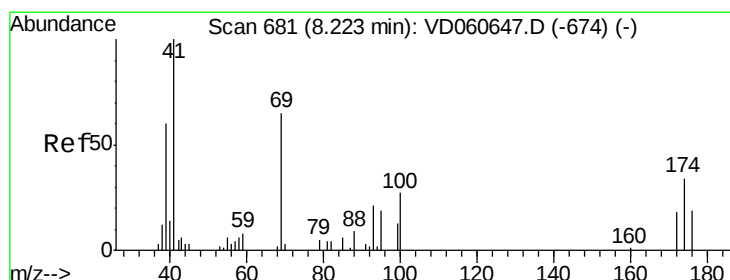
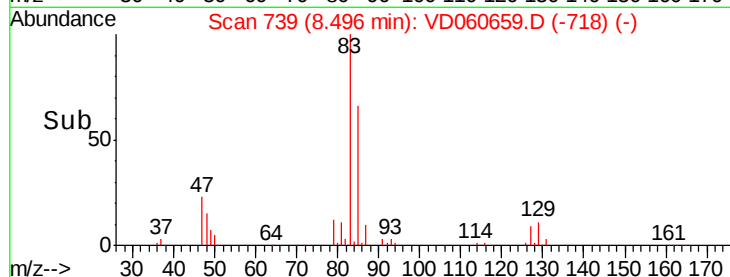
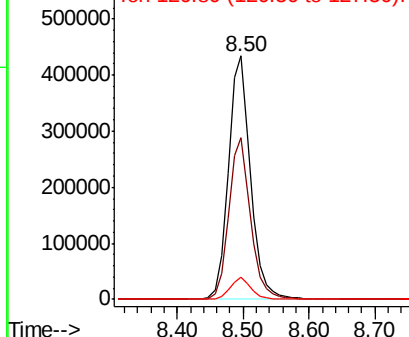
83 100

85 66.4 51.1 76.7

127 8.9 7.0 10.6



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 49.997 ug/l

RT: 8.25 min Scan# 714

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

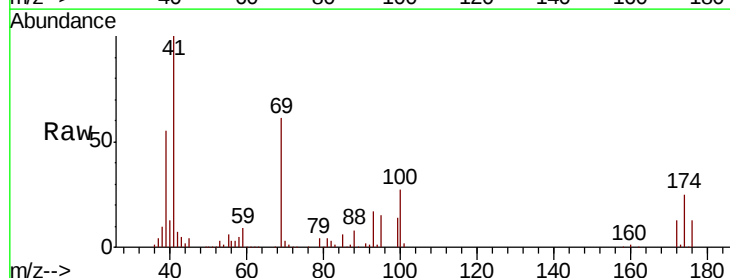
Tgt Ion: 41 Resp: 394400

Ion Ratio Lower Upper

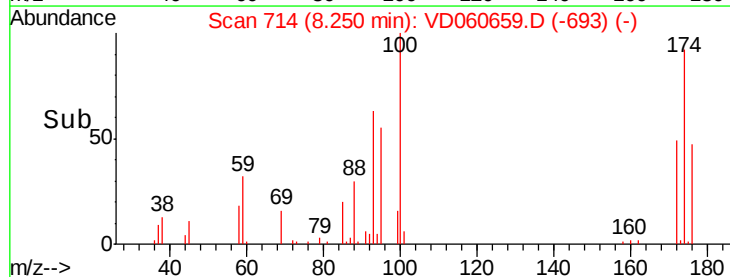
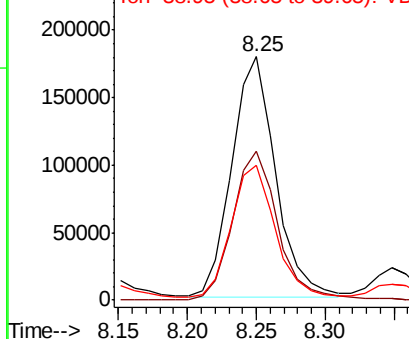
41 100

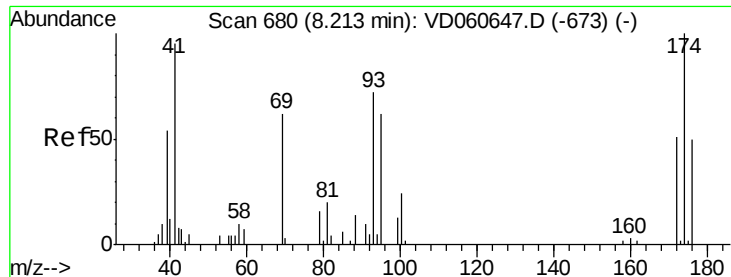
69 61.3 51.2 76.8

39 55.3 44.6 67.0



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

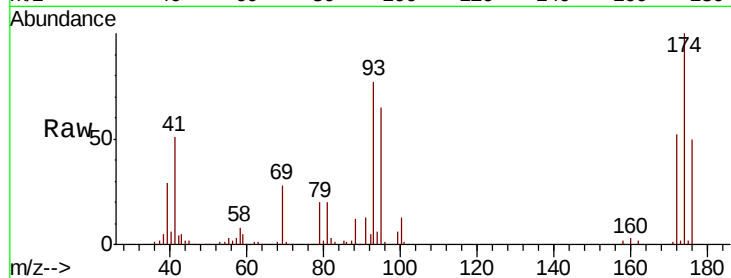




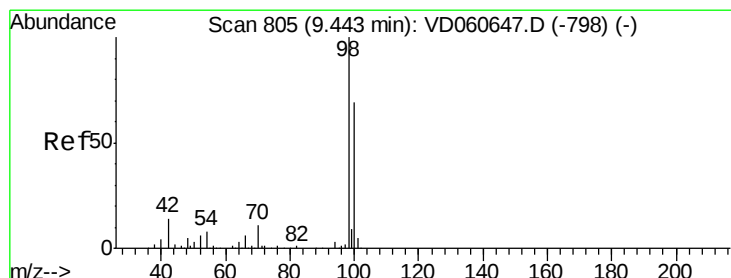
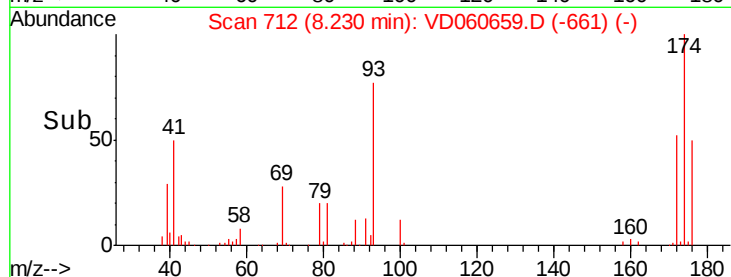
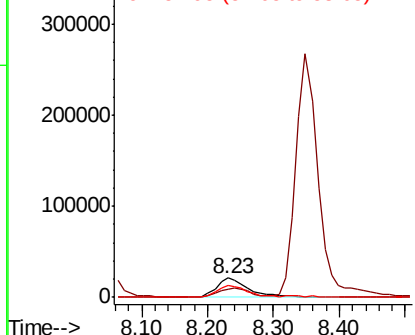
#49
1,4-Dioxane
Concen: 995.478 ug/l
RT: 8.23 min Scan# 712
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

Tot Ion: 88 Resp: 73014
Ion Ratio Lower Upper
88 100
43 42.5 31.5 47.3
58 65.3 50.6 76.0

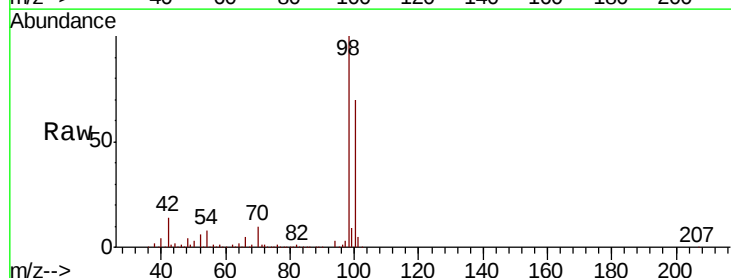


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

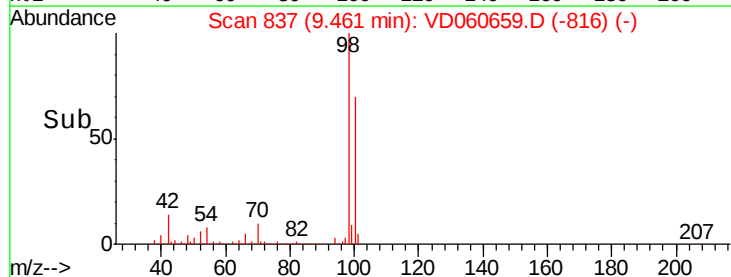
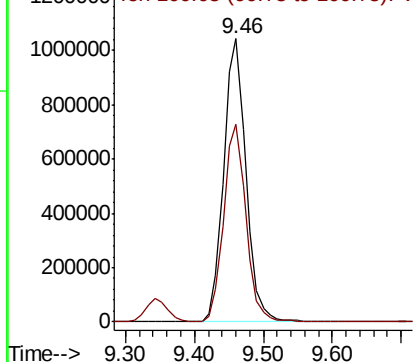


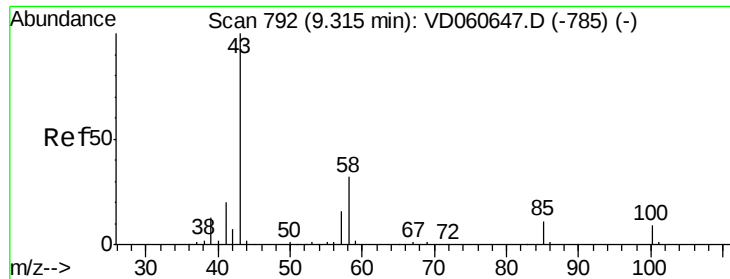
#50
Toluene-d8
Concen: 995.478 ug/l
RT: 9.46 min Scan# 837
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 98 Resp: 2333531
Ion Ratio Lower Upper
98 100
100 69.9 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 237.685 ug/l

RT: 9.34 min Scan# 825

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

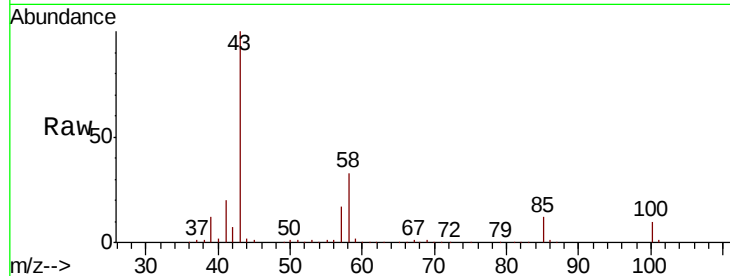
ICVVD122018

Tot Ion: 43 Resp: 1891338

Ion Ratio Lower Upper

43 100

58 32.5 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.34

800000

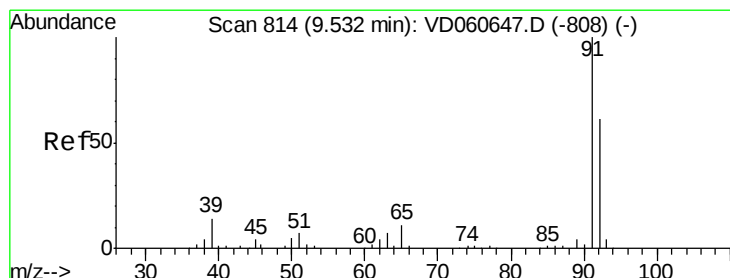
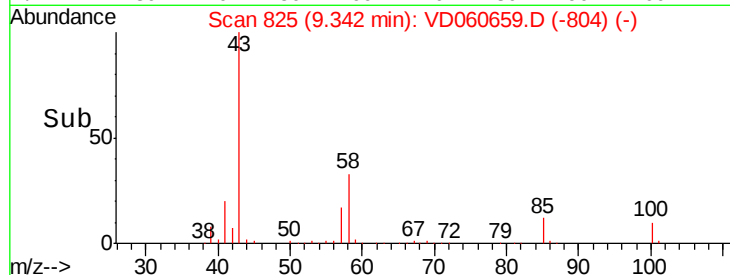
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 48.117 ug/l

RT: 9.55 min Scan# 846

Delta R.T. 0.00 min

Lab File: VD060659.D

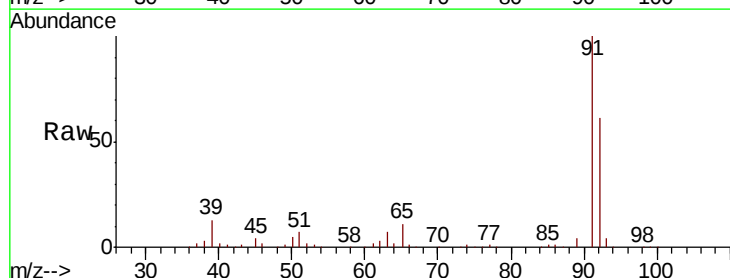
Acq: 20 Dec 2018 15:18

Tgt Ion: 92 Resp: 1885539

Ion Ratio Lower Upper

92 100

91 162.8 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

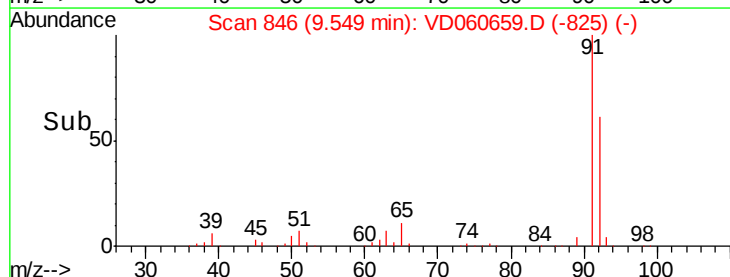
1500000

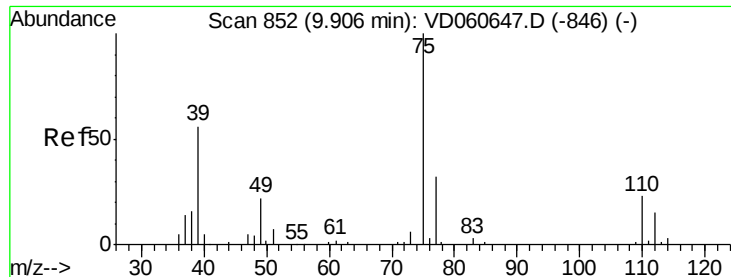
1000000

500000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 48.489 ug/l

RT: 9.92 min Scan# 884

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

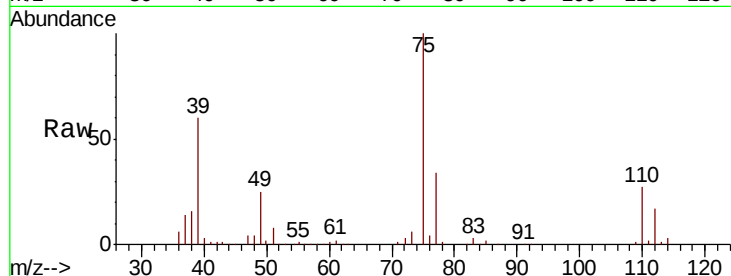
ICVVD122018

Tot Ion: 75 Resp: 838290

Ion Ratio Lower Upper

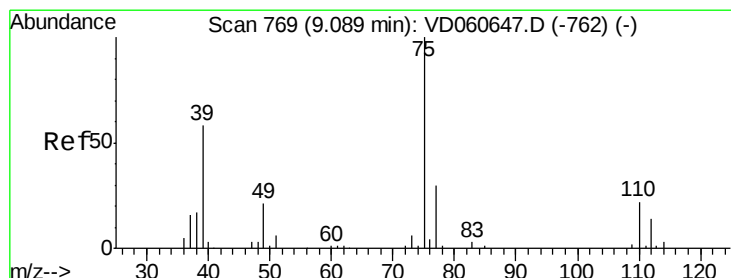
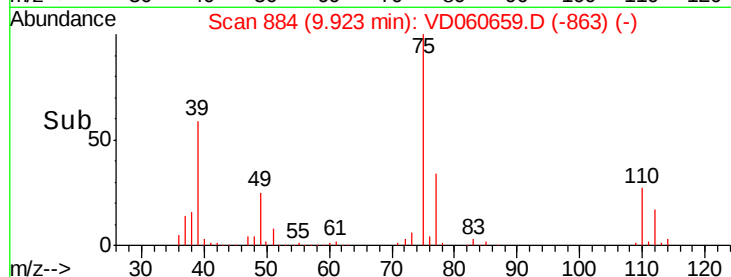
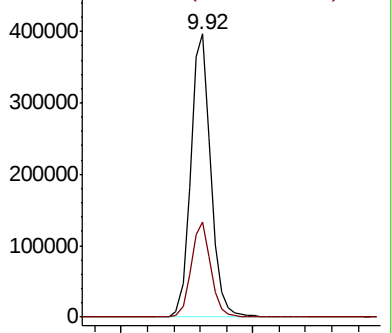
75 100

77 33.6 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 47.194 ug/l

RT: 9.11 min Scan# 801

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

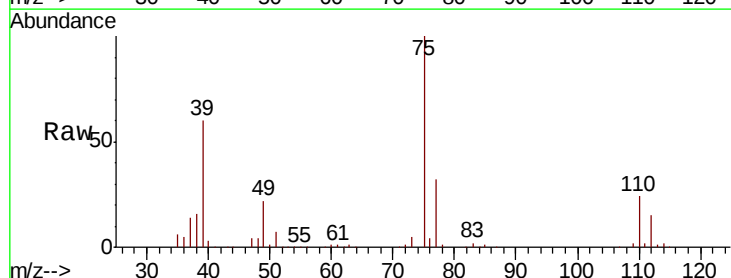
Tgt Ion: 75 Resp: 1067927

Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.2

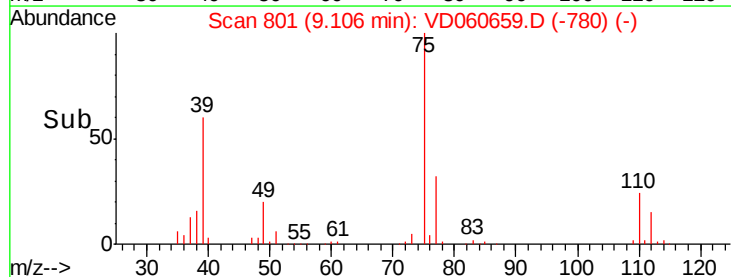
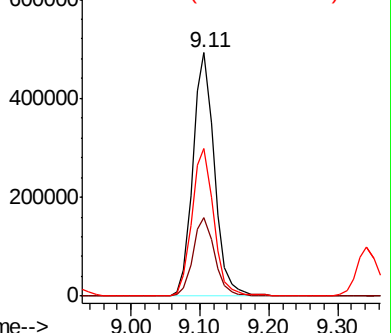
39 60.4 47.0 70.4

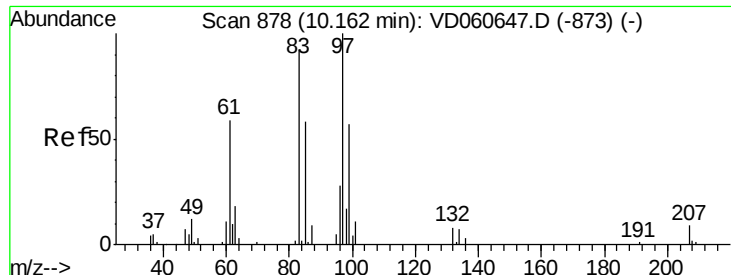


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 47.126 ug/l

RT: 10.18 min Scan# 910

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

Tot Ion: 97 Resp: 496869

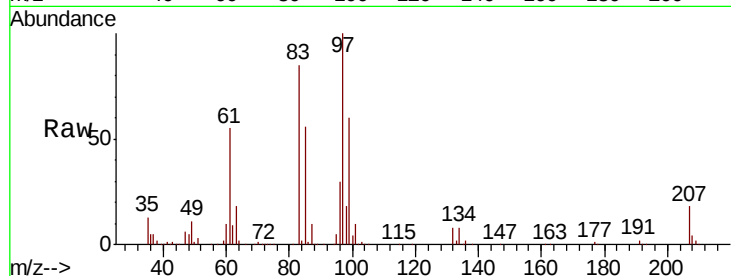
Ion Ratio Lower Upper

97 100

83 84.7 70.0 105.0

85 56.5 46.6 70.0

99 59.9 49.6 74.4

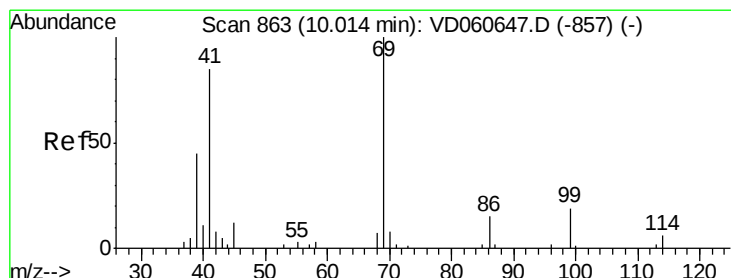
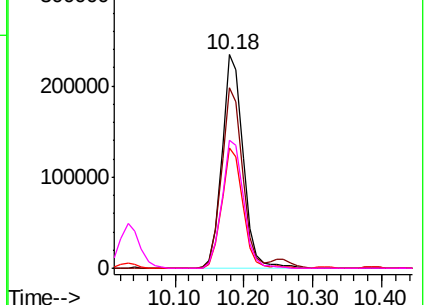
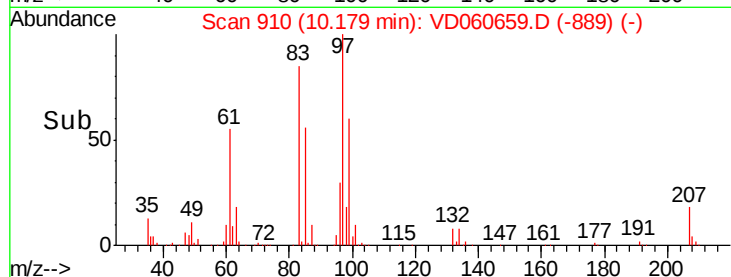


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 49.524 ug/l

RT: 10.03 min Scan# 895

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

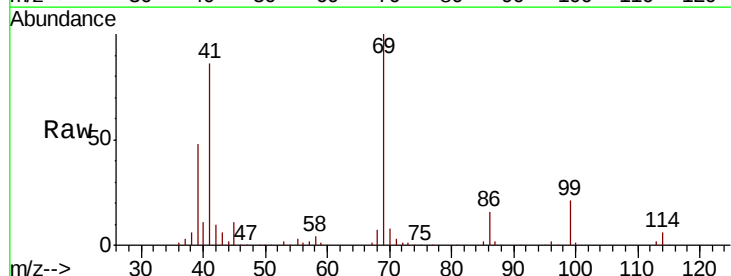
Tgt Ion: 69 Resp: 484988

Ion Ratio Lower Upper

69 100

41 86.4 68.3 102.5

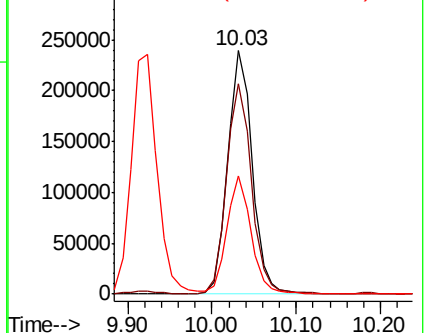
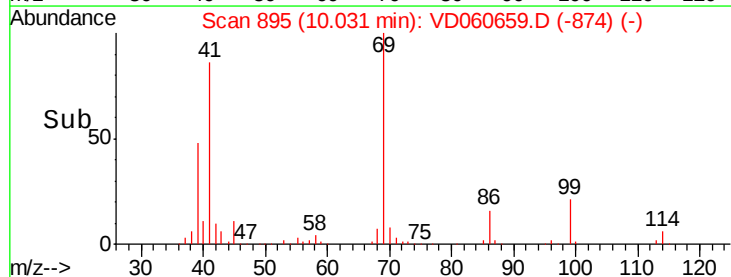
39 48.3 37.2 55.8

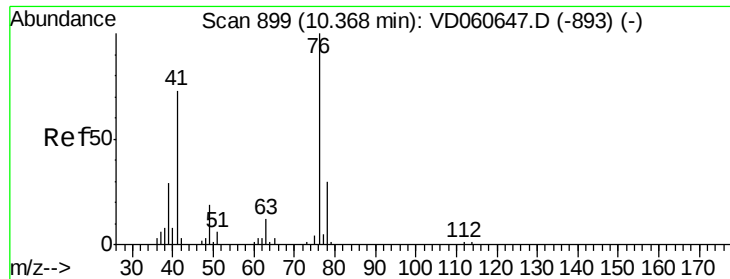


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 48.152 ug/l

RT: 10.39 min Scan# 931

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

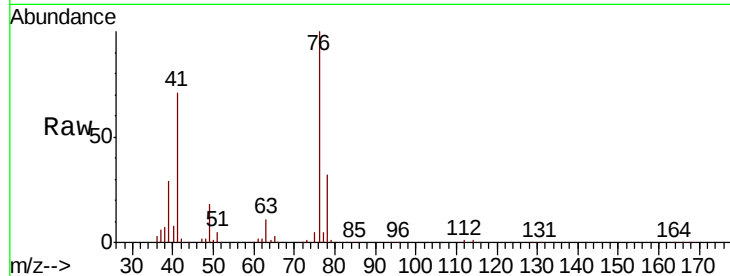
ICVVD122018

Tot Ion: 76 Resp: 804714

Ion Ratio Lower Upper

76 100

78 31.8 26.1 39.1



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.39

400000

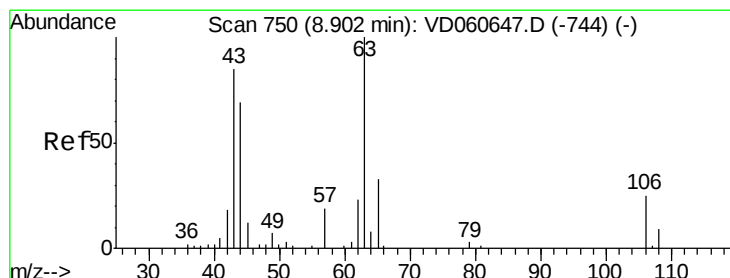
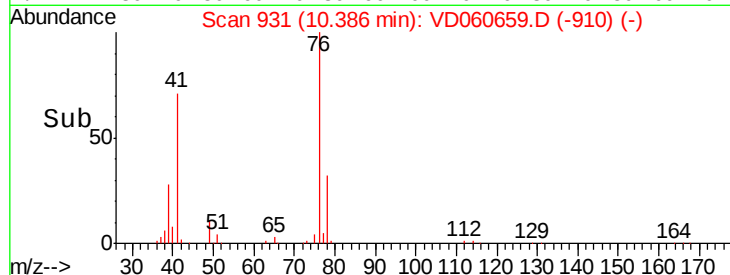
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 228.590 ug/l

RT: 8.93 min Scan# 783

Delta R.T. 0.00 min

Lab File: VD060659.D

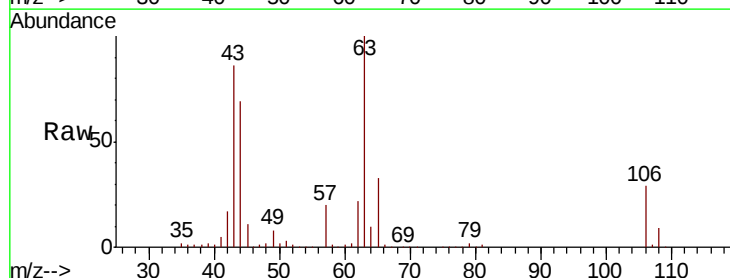
Acq: 20 Dec 2018 15:18

Tgt Ion: 63 Resp: 1319035

Ion Ratio Lower Upper

63 100

106 28.6 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.93

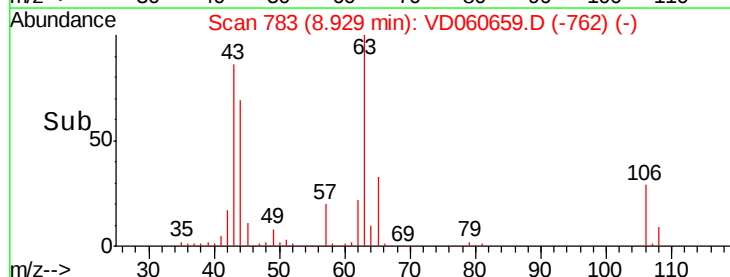
600000

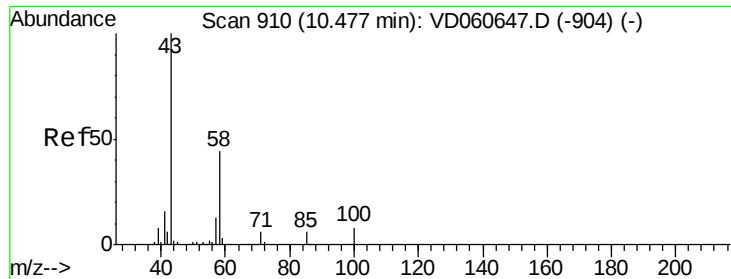
400000

200000

0

Time-->

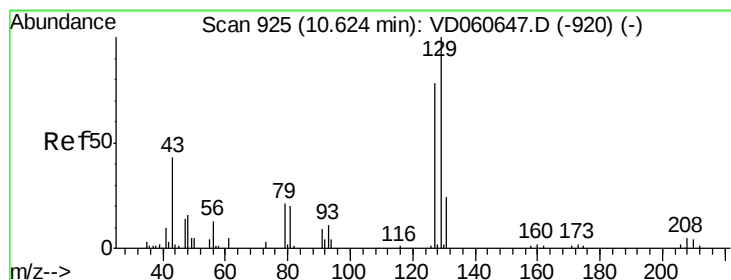
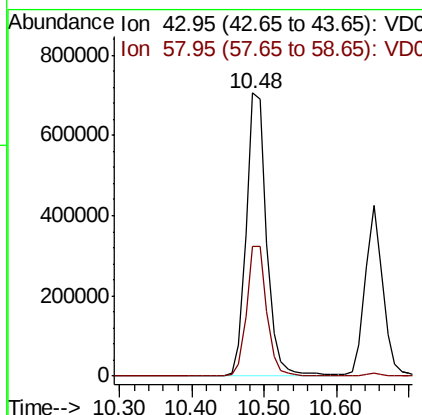
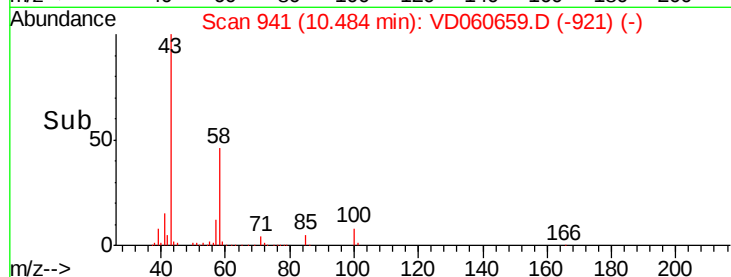
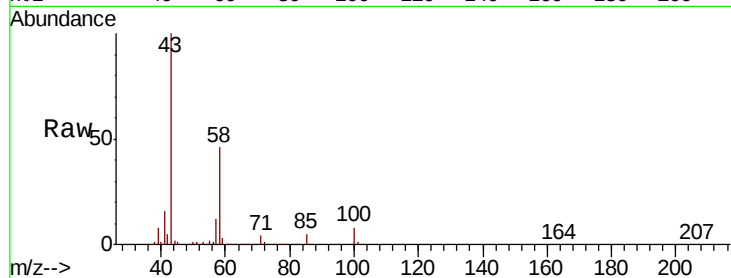




#59
2-Hexanone
Concen: 251.544 ug/l
RT: 10.48 min Scan# 941
Delta R.T. -0.01 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

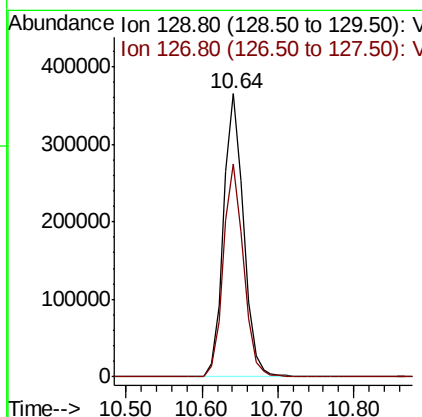
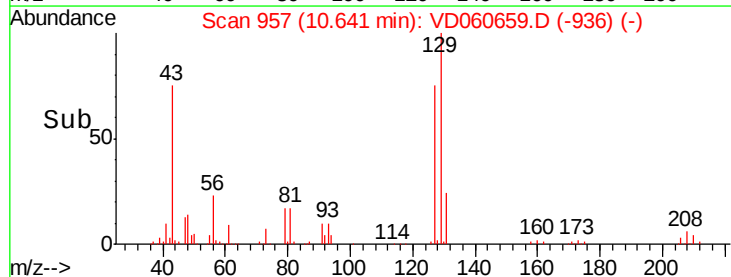
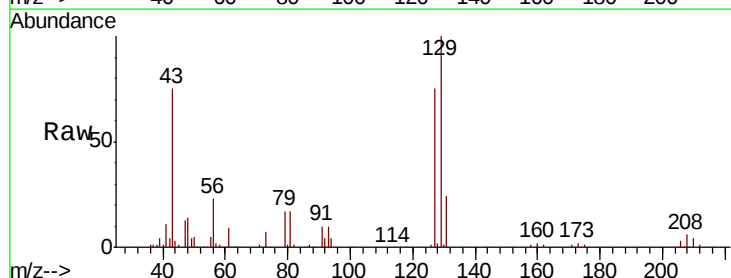
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

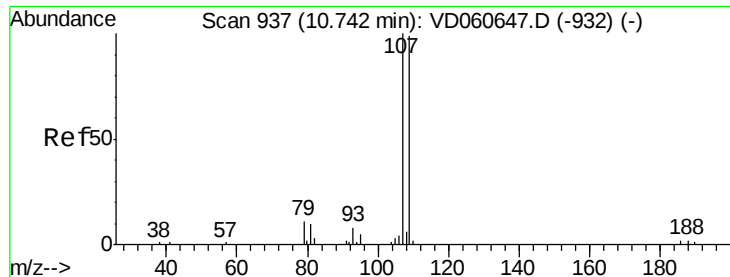
Tot Ion: 43 Resp: 1401064
Ion Ratio Lower Upper
43 100
58 45.7 23.5 70.5



#60
Dibromochloromethane
Concen: 50.032 ug/l
RT: 10.64 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 129 Resp: 671917
Ion Ratio Lower Upper
129 100
127 75.4 37.6 112.9





#61

1,2-Dibromoethane

Concen: 49.545 ug/l

RT: 10.76 min Scan# 969

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

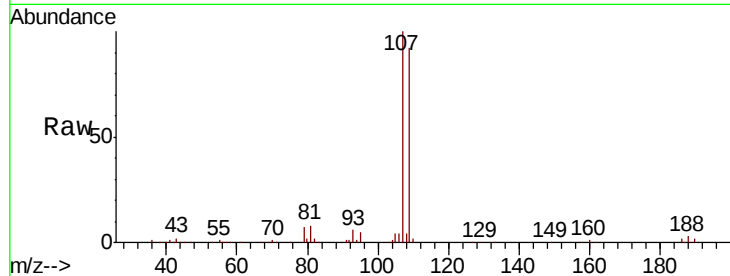
ICVVD122018

Tot Ion:107 Resp: 541828

Ion Ratio Lower Upper

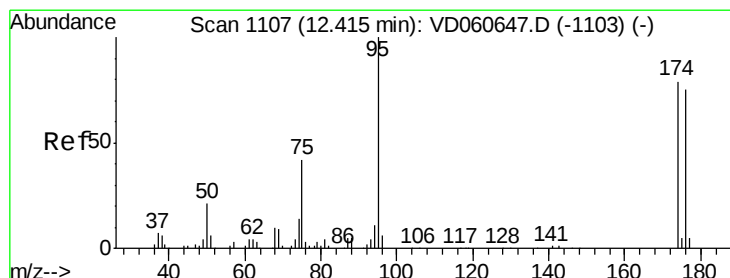
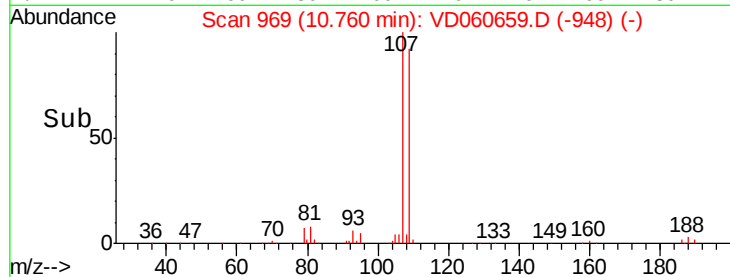
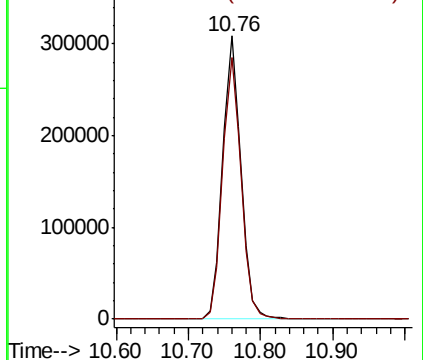
107 100

109 92.3 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: 49.545 ug/l

RT: 12.42 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

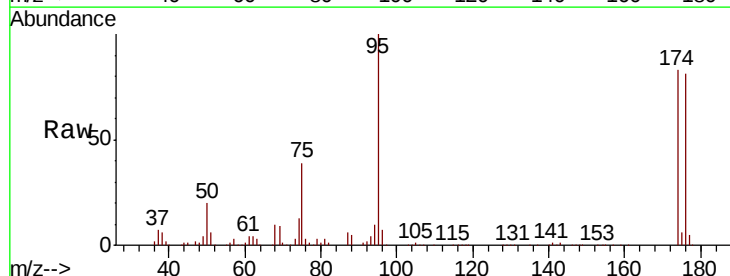
Tgt Ion: 95 Resp: 813113

Ion Ratio Lower Upper

95 100

174 82.6 0.0 158.2

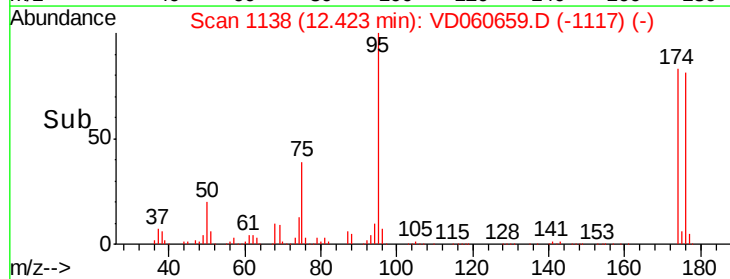
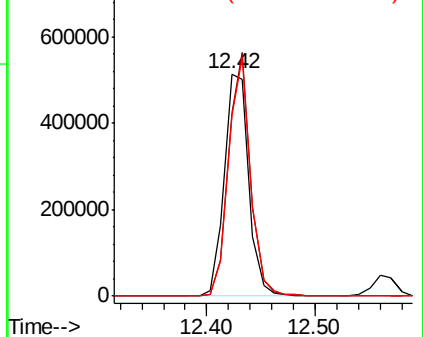
176 81.2 0.0 152.4

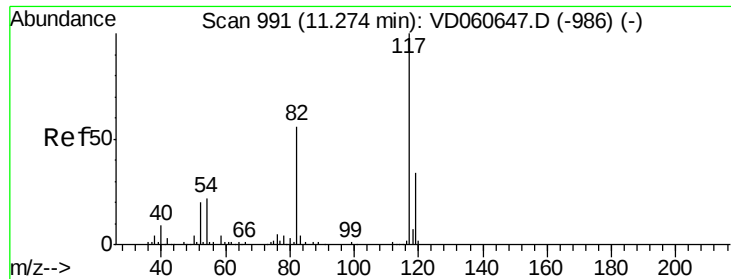


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

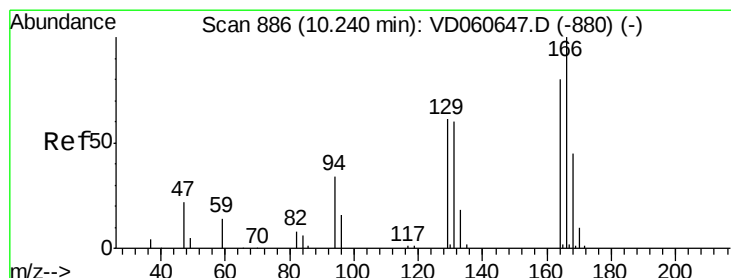
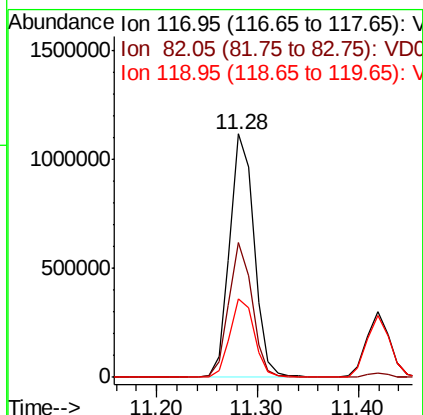
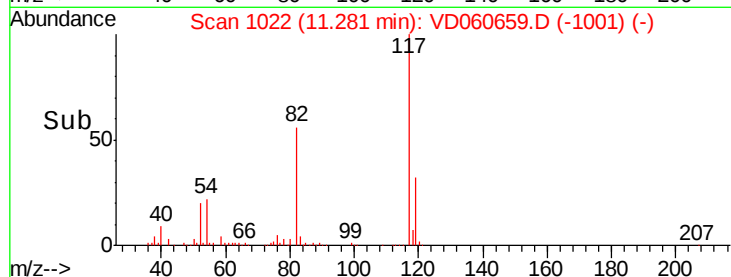
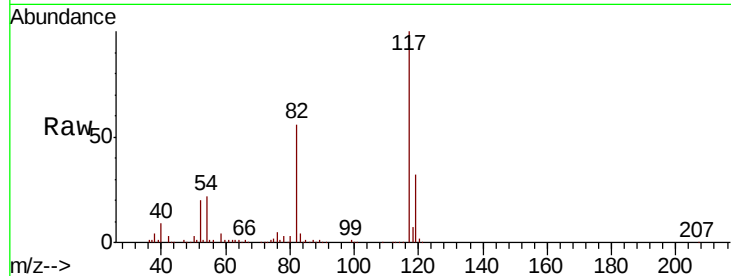




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 1022
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

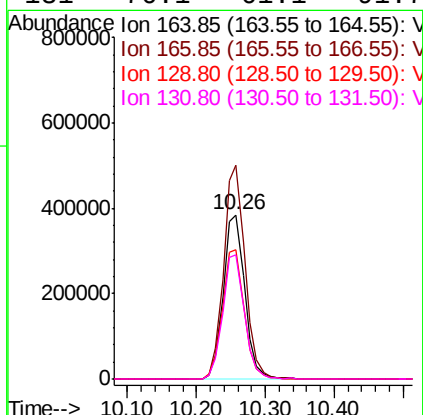
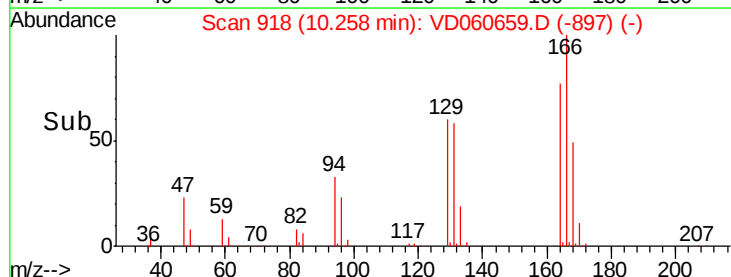
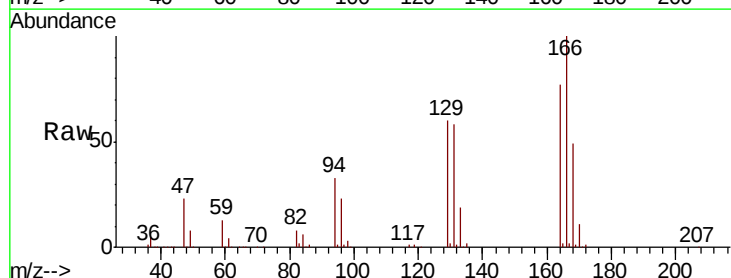
Instrument :
MSVOA_X
ClientSampled :
ICVVD122018

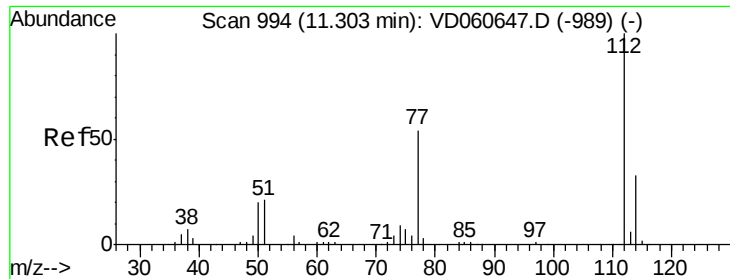
Tot Ion:117 Resp: 1879087
Ion Ratio Lower Upper
117 100
82 55.5 44.5 66.7
119 32.2 26.3 39.5



#64
Tetrachloroethene
Concen: 48.698 ug/l
RT: 10.26 min Scan# 918
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion:164 Resp: 829391
Ion Ratio Lower Upper
164 100
166 130.2 104.4 156.6
129 78.6 62.7 94.1
131 76.1 61.1 91.7





#65

Chlorobenzene

Concen: 47.382 ug/l

RT: 11.31 min Scan# 1025

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

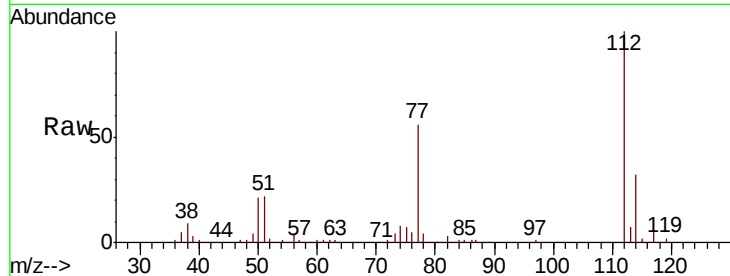
ICVVD122018

Tot Ion:112 Resp: 1967088

Ion Ratio Lower Upper

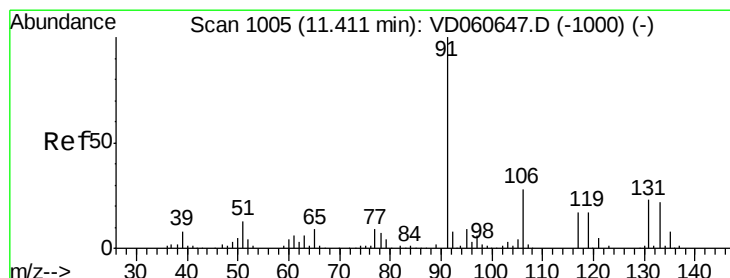
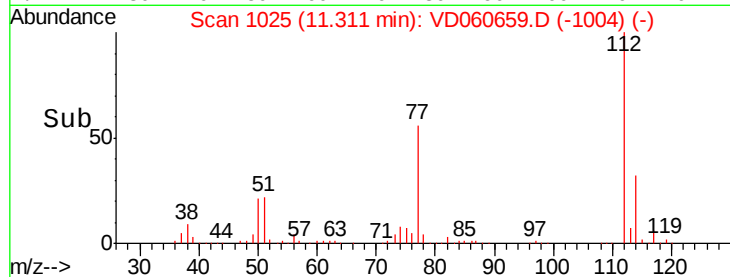
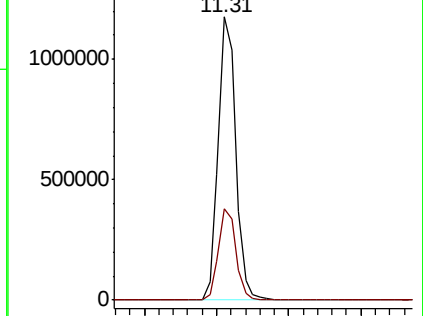
112 100

114 32.5 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 48.304 ug/l

RT: 11.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

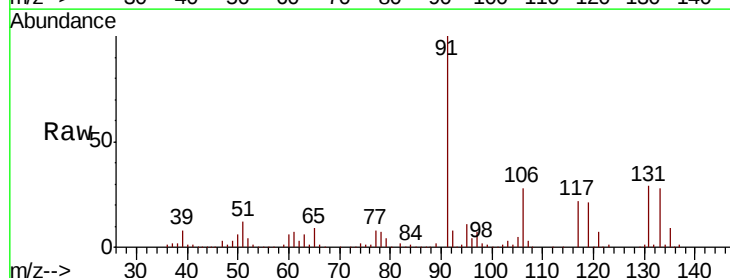
Tgt Ion:131 Resp: 644786

Ion Ratio Lower Upper

131 100

133 95.7 49.1 147.3

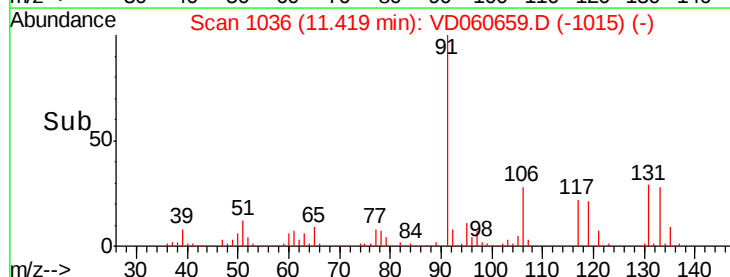
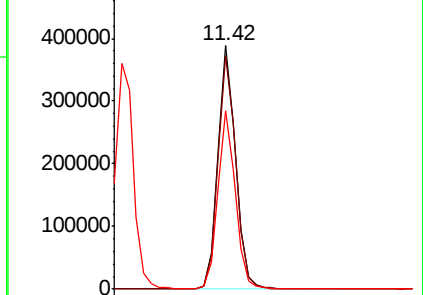
119 73.4 36.6 109.8

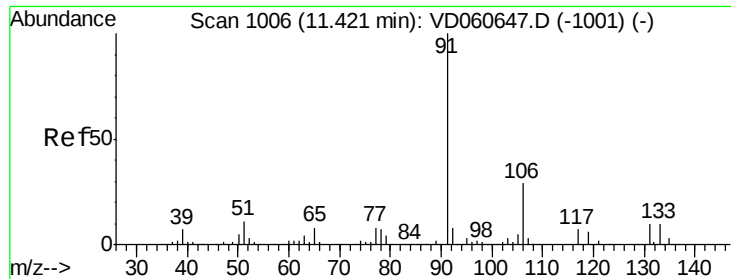


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

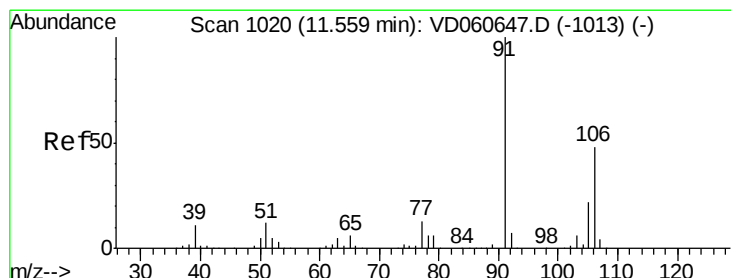
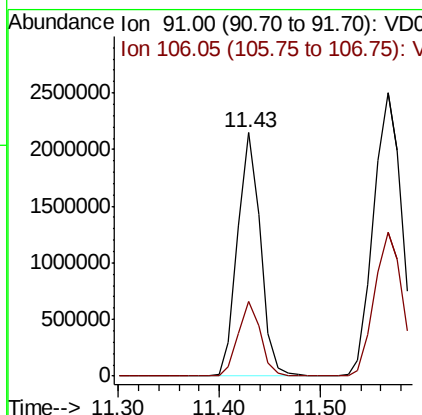
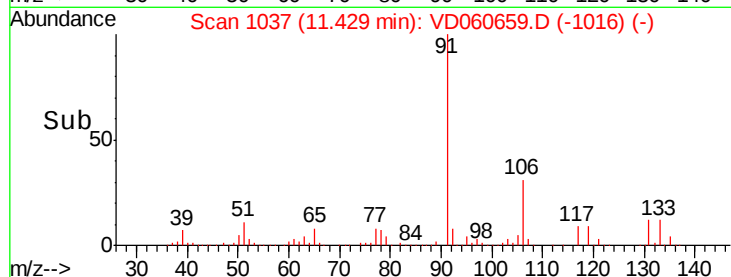
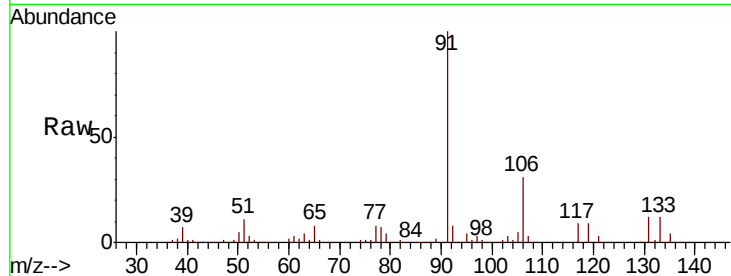




#67
Ethyl Benzene
Concen: 47.603 ug/l
RT: 11.43 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

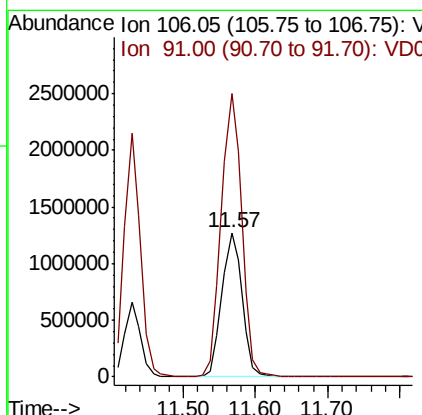
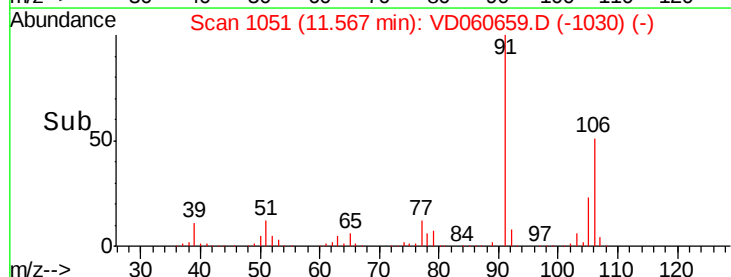
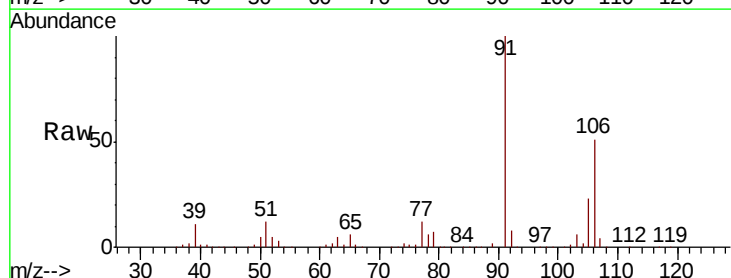
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

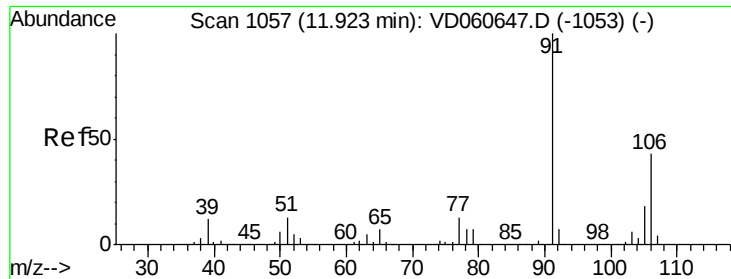
Tot Ion: 91 Resp: 3384583
Ion Ratio Lower Upper
91 100
106 30.9 24.6 36.8



#68
m/p-Xylenes
Concen: 95.183 ug/l
RT: 11.57 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 106 Resp: 2473203
Ion Ratio Lower Upper
106 100
91 196.5 158.9 238.3

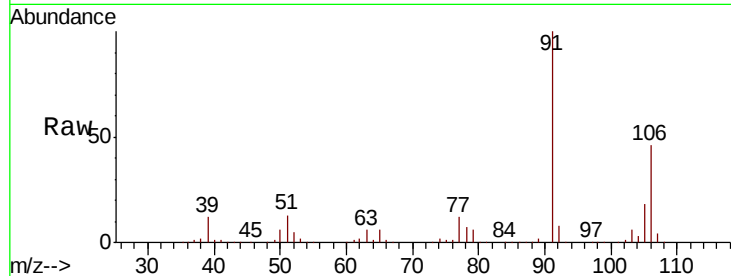




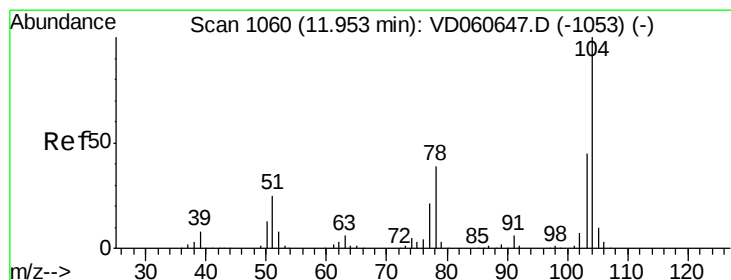
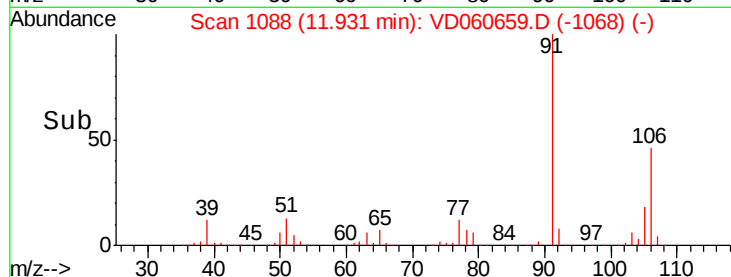
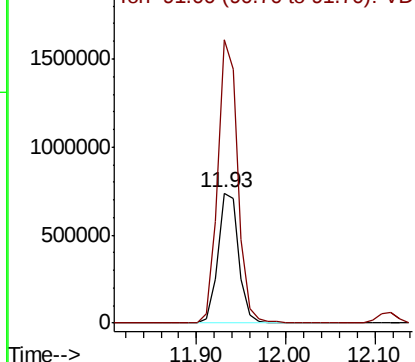
#69
o-Xylene
Concen: 48.838 ug/l
RT: 11.93 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

Tot Ion:106 Resp: 1203926
Ion Ratio Lower Upper
106 100
91 217.9 101.5 304.5

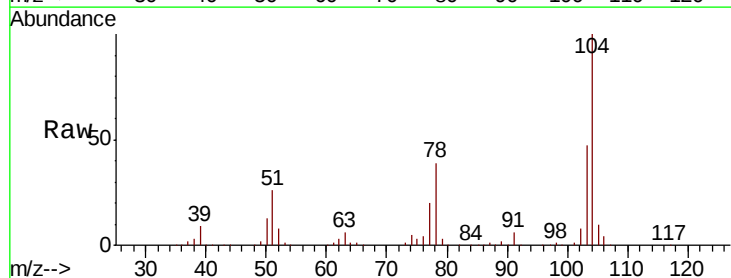


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

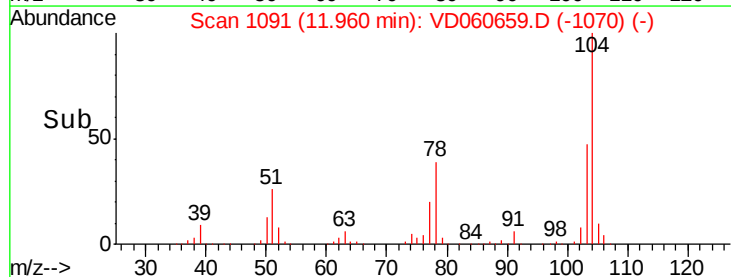
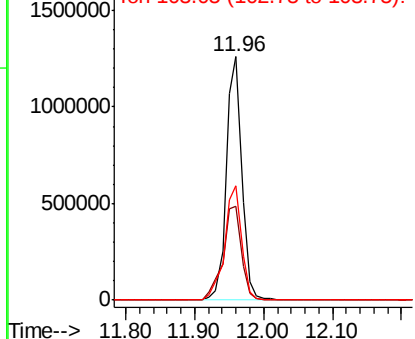


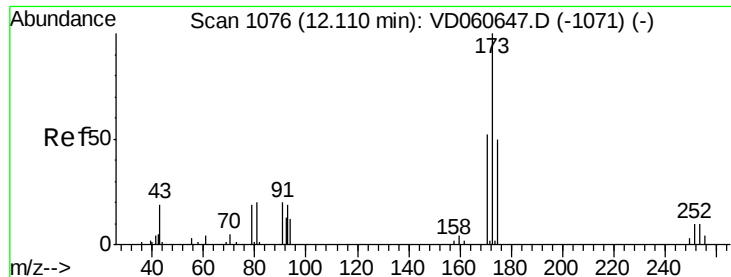
#70
Styrene
Concen: 49.028 ug/l
RT: 11.96 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion:104 Resp: 1946561
Ion Ratio Lower Upper
104 100
78 38.6 31.4 47.2
103 47.2 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 49.830 ug/l

RT: 12.12 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

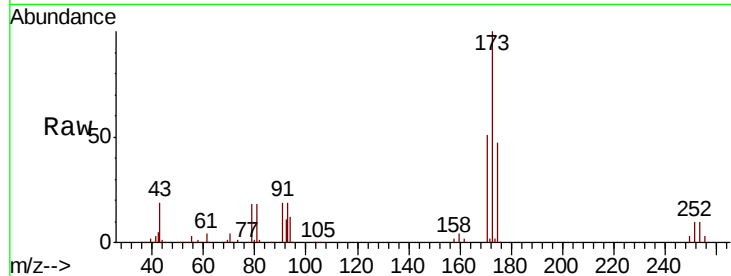
Tot Ion:173 Resp: 439068

Ion Ratio Lower Upper

173 100

175 47.3 25.5 76.5

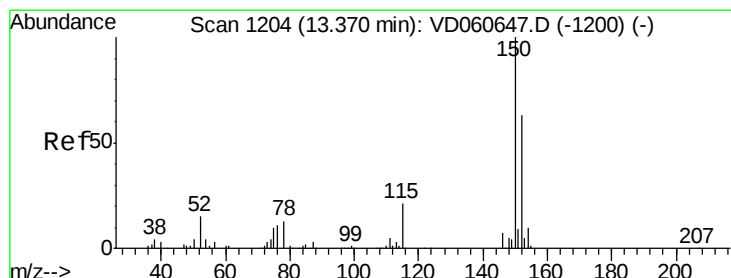
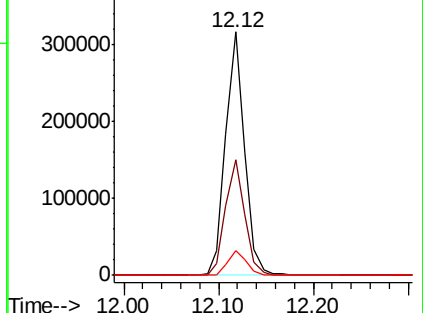
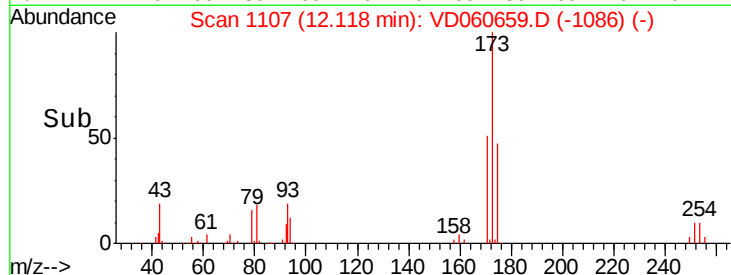
254 9.9 7.9 11.9



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

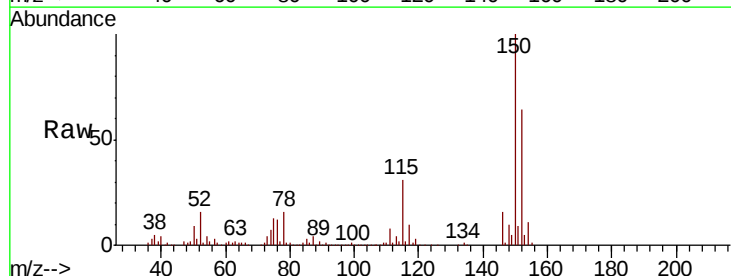
Tgt Ion:152 Resp: 961496

Ion Ratio Lower Upper

152 100

115 49.1 24.1 72.3

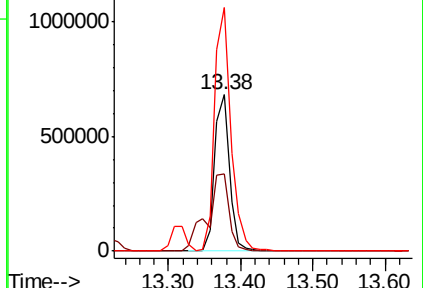
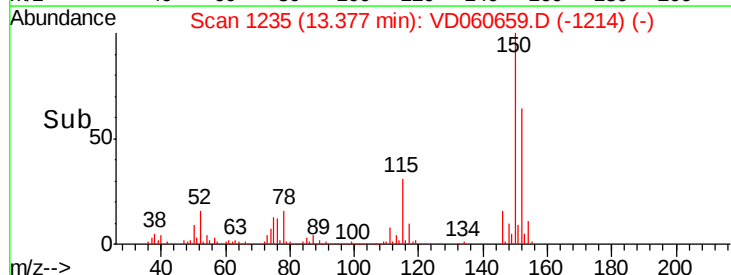
150 156.1 0.0 315.0

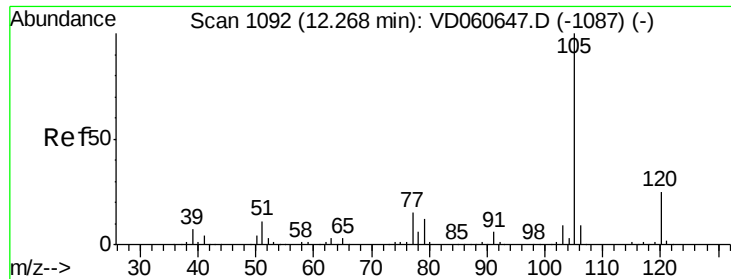


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.594 ug/l

RT: 12.28 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

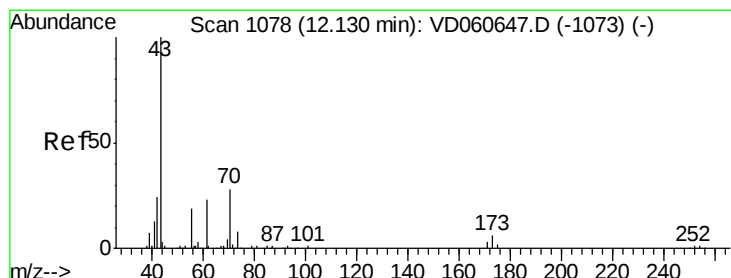
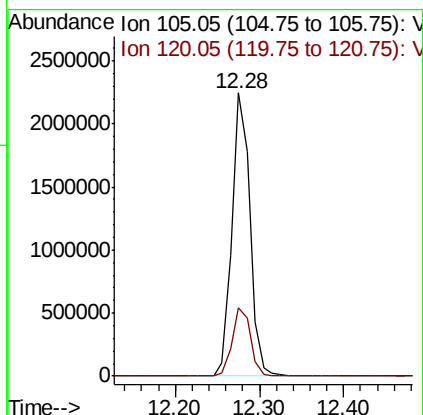
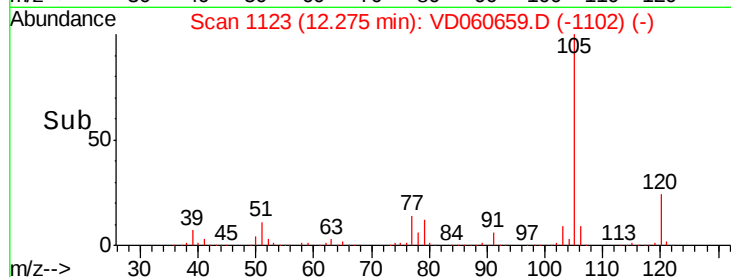
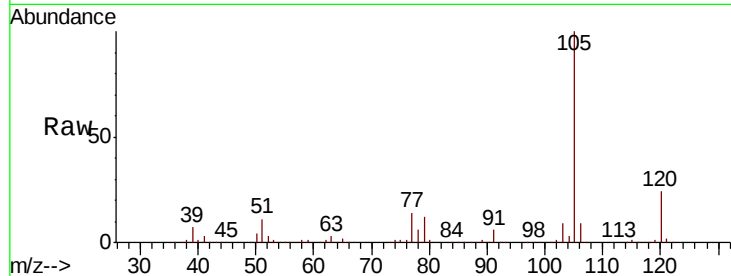
ICVVD122018

Tot Ion:105 Resp: 3326607

Ion Ratio Lower Upper

105 100

120 24.1 12.2 36.4



#74

N-ethyl acetate

Concen: 49.137 ug/l

RT: 12.14 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Tgt Ion: 43 Resp: 793895

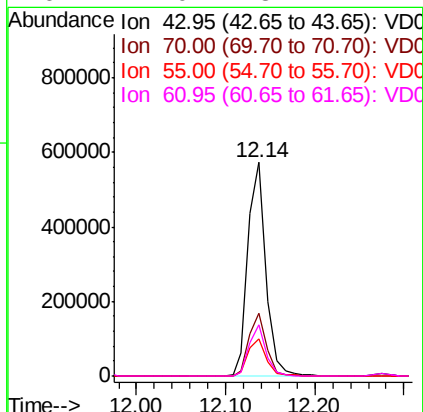
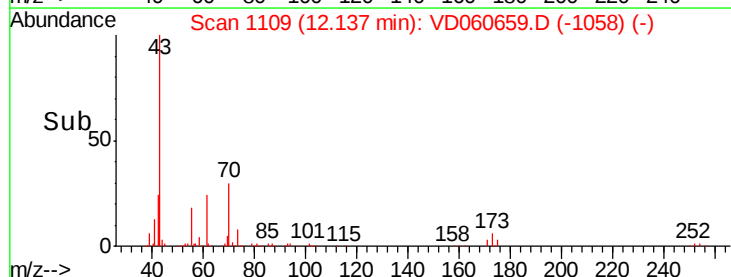
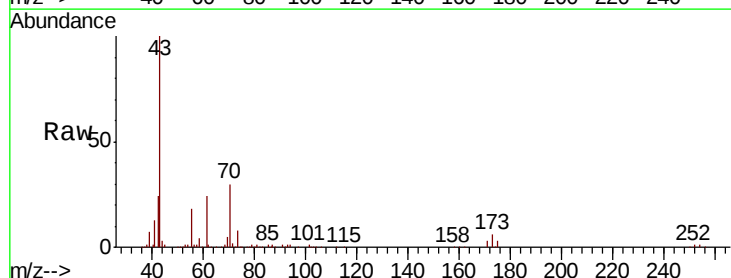
Ion Ratio Lower Upper

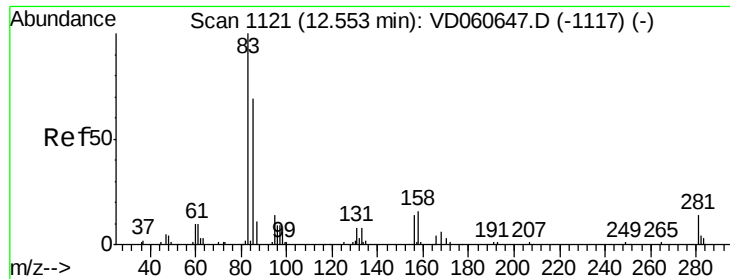
43 100

70 29.6 22.2 33.2

55 17.6 13.8 20.8

61 24.0 18.2 27.2





#75

1,1,2,2-Tetrachloroethane

Concen: 48.746 ug/l

RT: 12.56 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

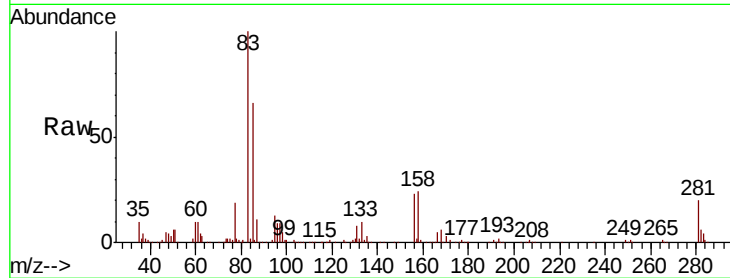
Tot Ion: 83 Resp: 540895

Ion Ratio Lower Upper

83 100

131 8.3 4.2 12.4

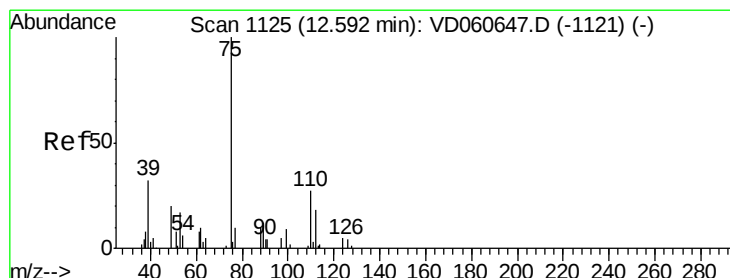
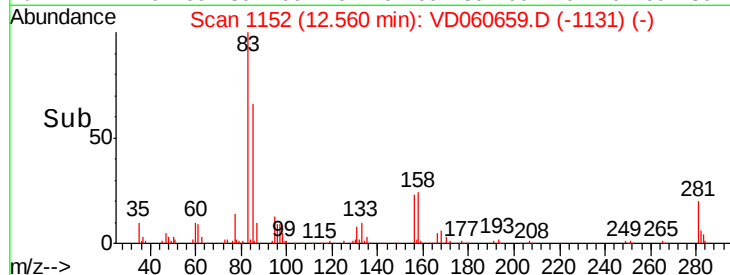
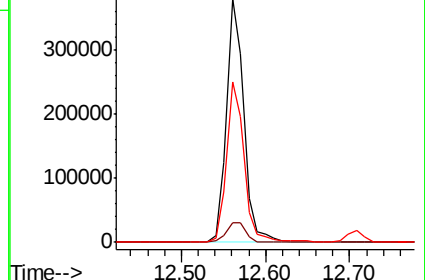
85 66.1 32.6 97.7



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



#76

1,2,3-Trichloropropane

Concen: 48.220 ug/l

RT: 12.60 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VD060659.D

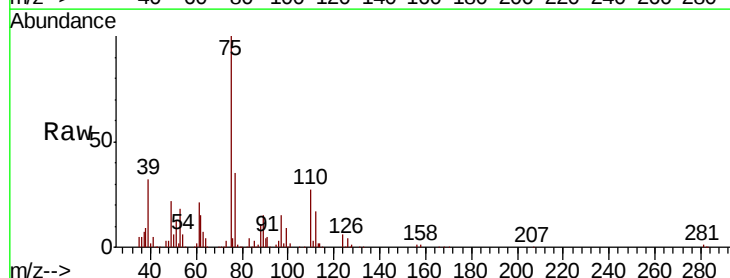
Acq: 20 Dec 2018 15:18

Tgt Ion: 75 Resp: 527836

Ion Ratio Lower Upper

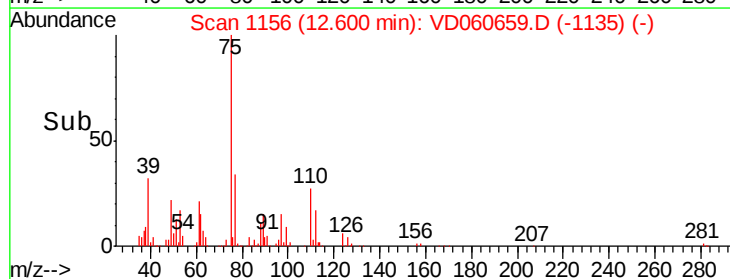
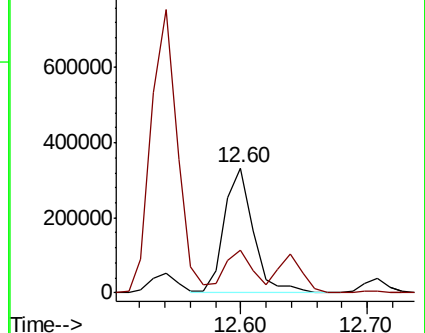
75 100

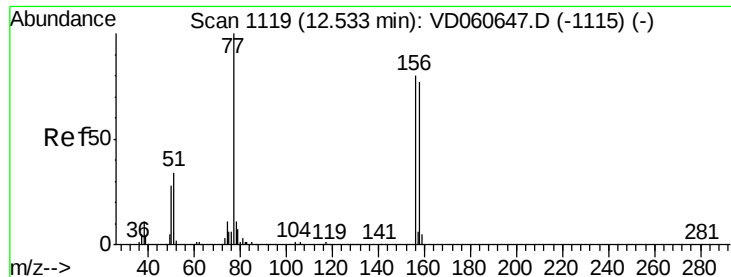
77 34.5 16.7 50.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 48.398 ug/l

RT: 12.54 min Scan# 1150

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

ICVVD122018

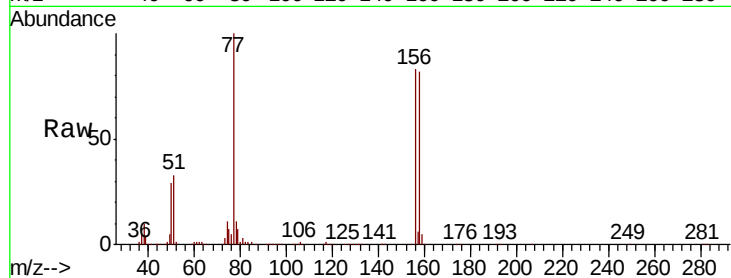
Tot Ion:156 Resp: 874729

Ion Ratio Lower Upper

156 100

77 120.3 61.3 183.9

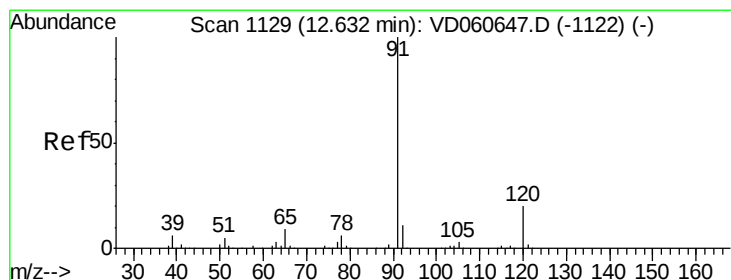
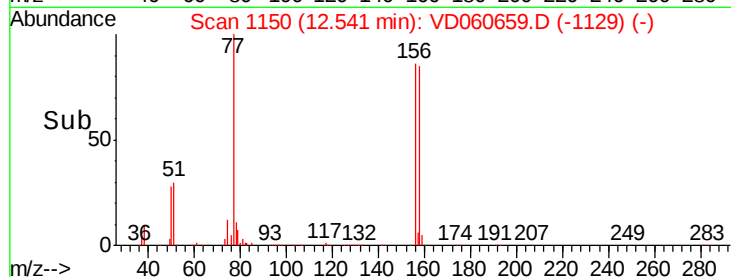
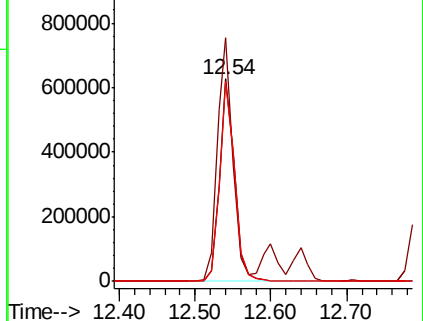
158 98.7 48.9 146.6



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 46.695 ug/l

RT: 12.64 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VD060659.D

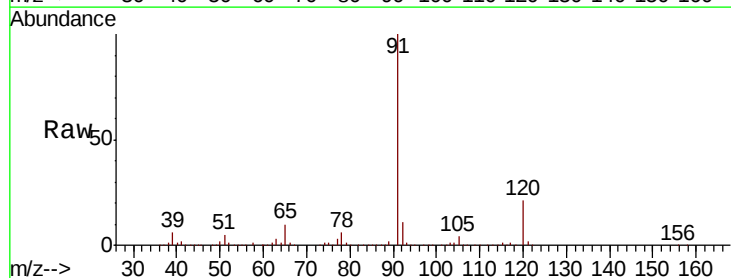
Acq: 20 Dec 2018 15:18

Tgt Ion: 91 Resp: 4086673

Ion Ratio Lower Upper

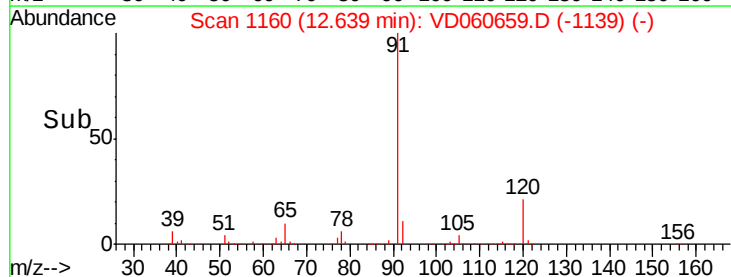
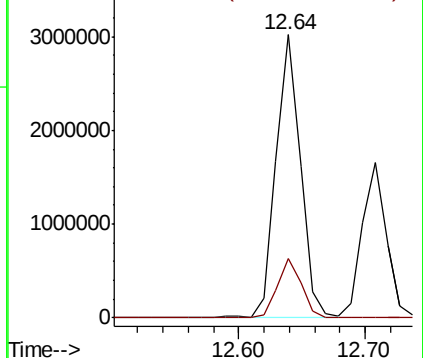
91 100

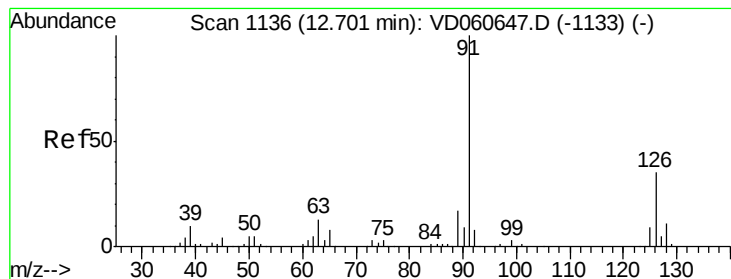
120 21.1 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 47.062 ug/l

RT: 12.71 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

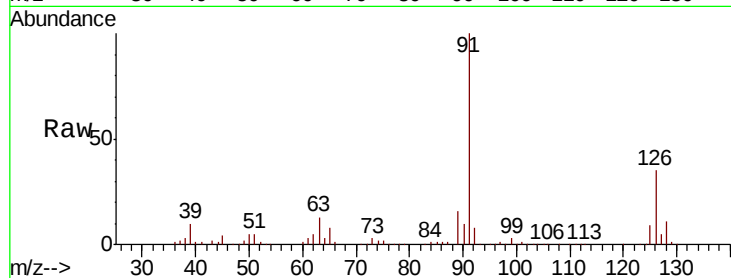
ICVVD122018

Tot Ion: 91 Resp: 2206066

Ion Ratio Lower Upper

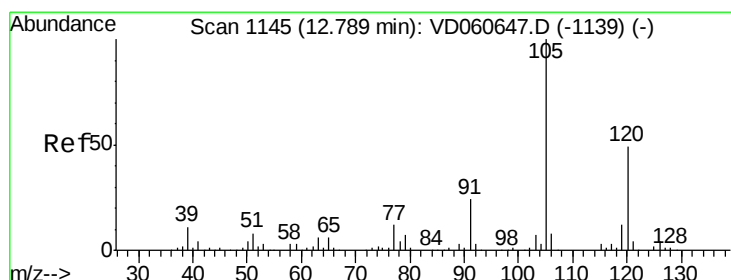
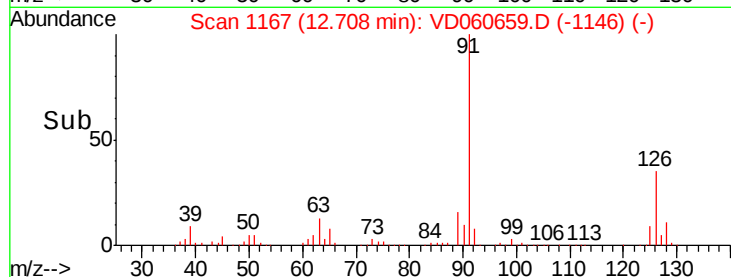
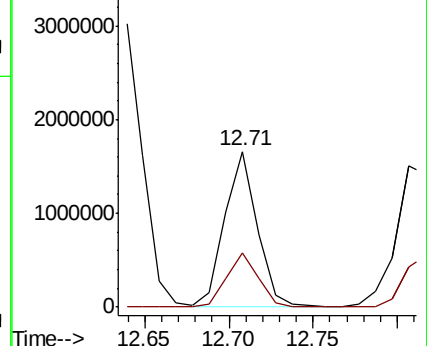
91 100

126 34.5 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: 48.706 ug/l

RT: 12.80 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VD060659.D

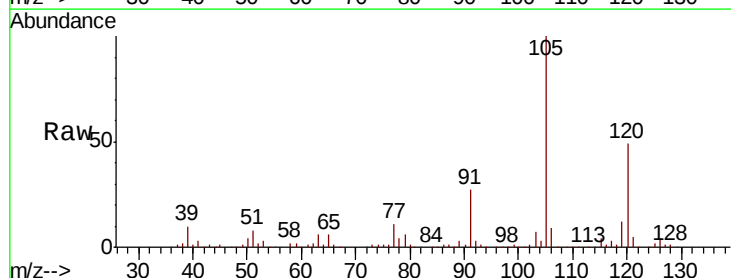
Acq: 20 Dec 2018 15:18

Tgt Ion:105 Resp: 2574679

Ion Ratio Lower Upper

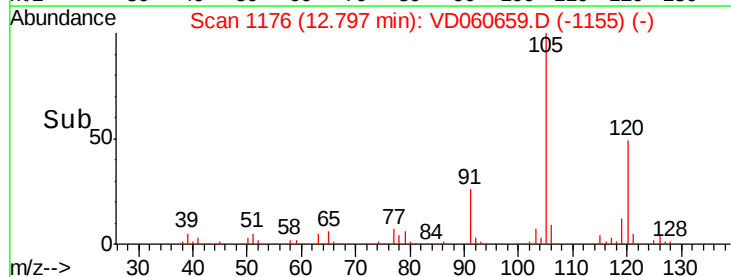
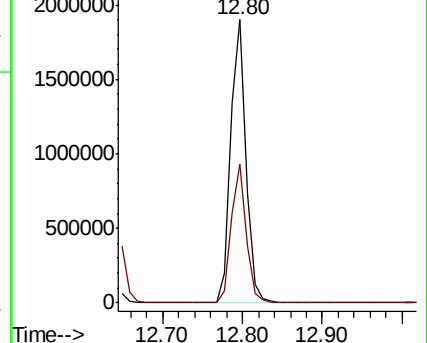
105 100

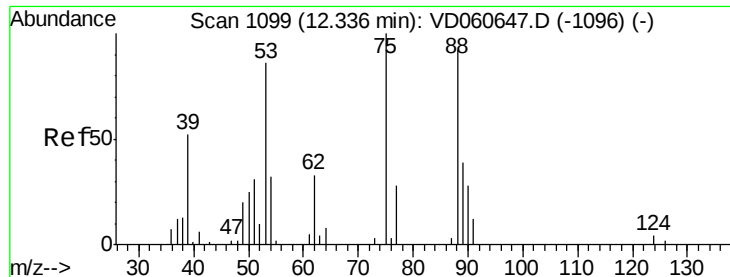
120 49.2 24.8 74.4



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: 50.932 ug/l

RT: 12.34 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampled :

ICVVD122018

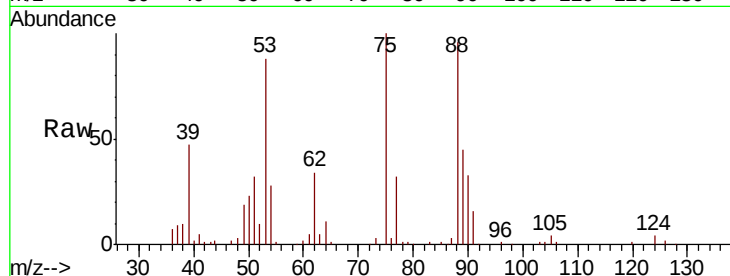
Tot Ion: 75 Resp: 154059

Ion Ratio Lower Upper

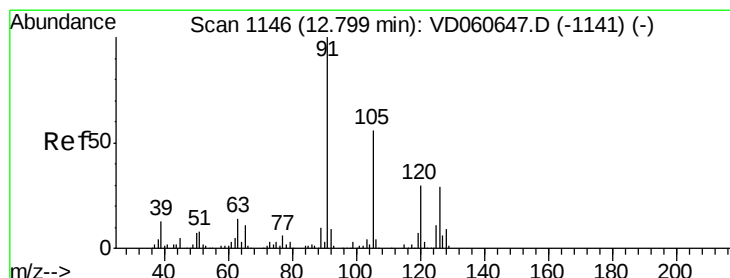
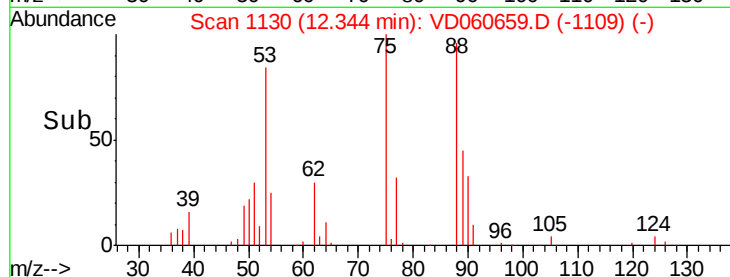
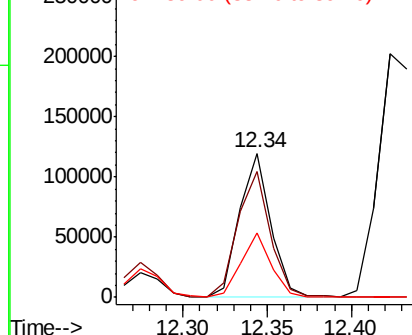
75 100

53 87.8 72.1 108.1

89 44.5 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: 45.877 ug/l

RT: 12.81 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VD060659.D

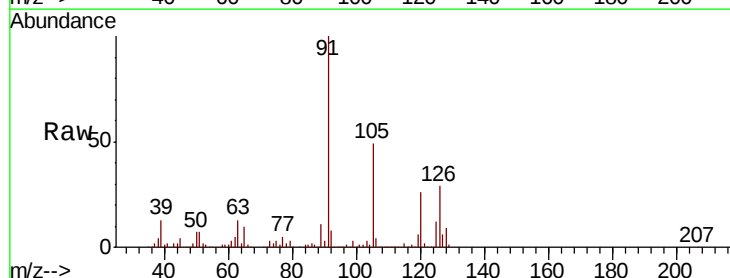
Acq: 20 Dec 2018 15:18

Tgt Ion: 91 Resp: 2437503

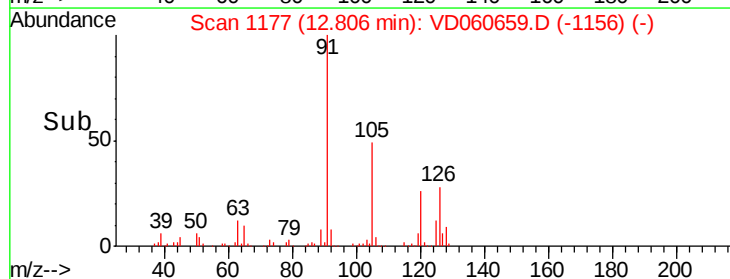
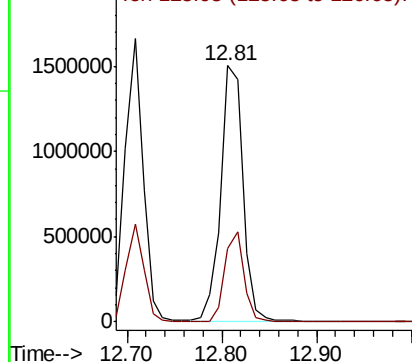
Ion Ratio Lower Upper

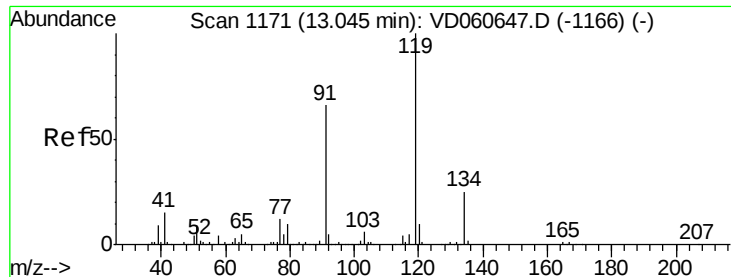
91 100

126 28.9 14.6 43.8



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

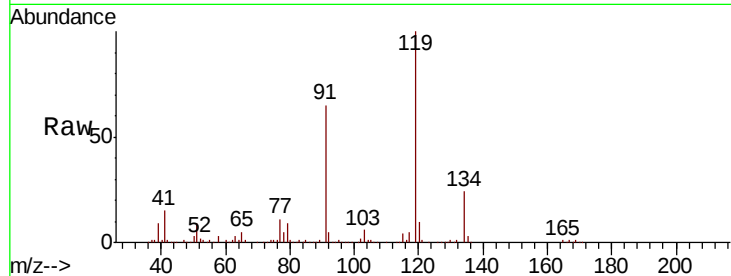




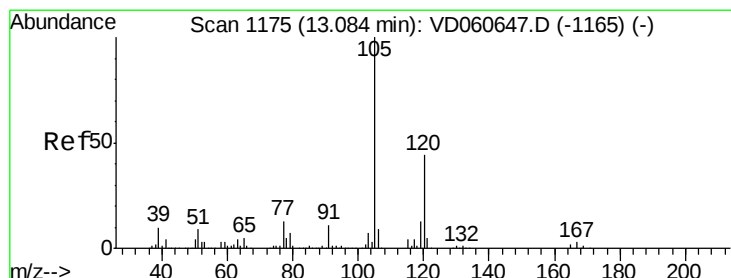
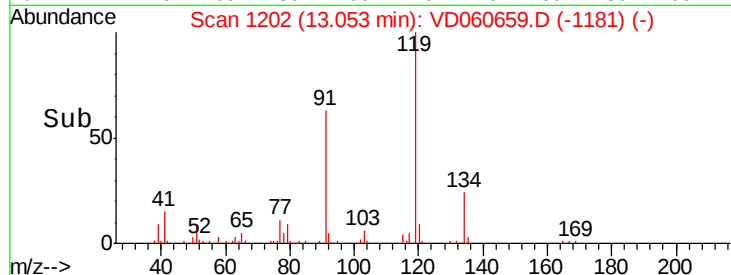
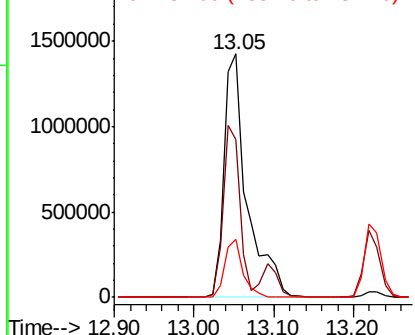
#83
 tert-Butylbenzene
 Concen: 48.182 ug/l
 RT: 13.05 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

Tot Ion:119 Resp: 2898642
 Ion Ratio Lower Upper
 119 100
 91 65.0 32.5 97.4
 134 23.6 11.9 35.9

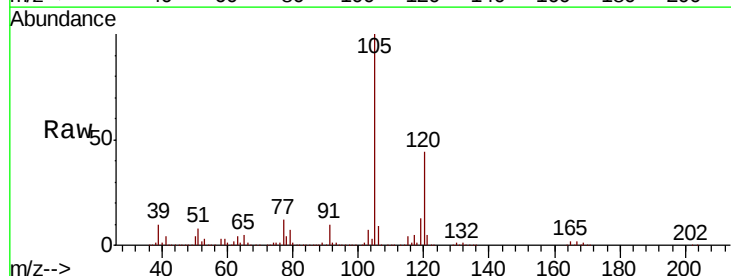


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

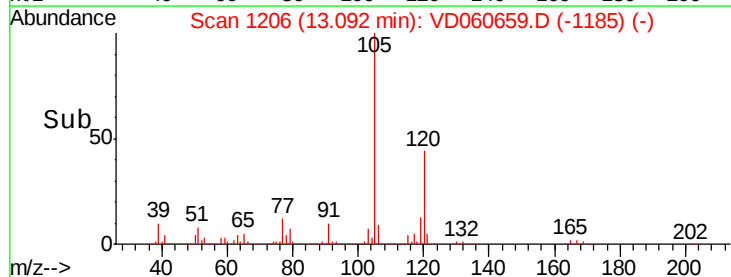
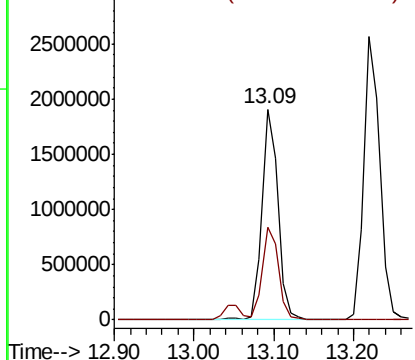


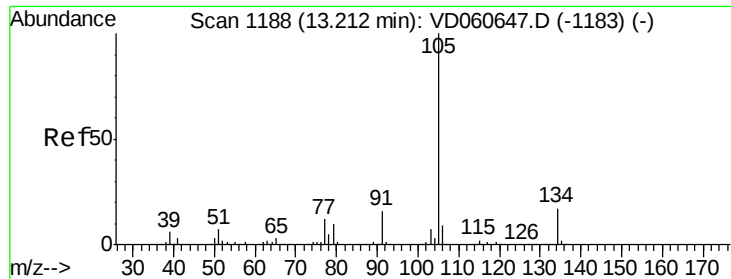
#84
 1,2,4-Trimethylbenzene
 Concen: 47.871 ug/l
 RT: 13.09 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion:105 Resp: 2606292
 Ion Ratio Lower Upper
 105 100
 120 44.2 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

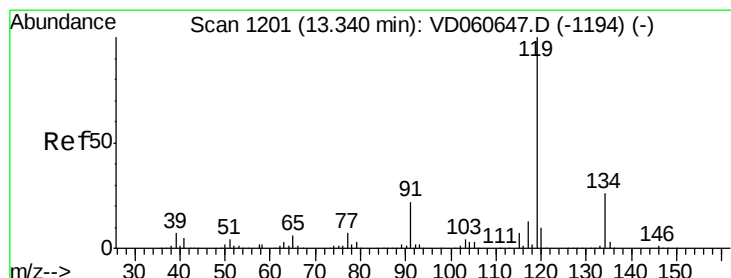
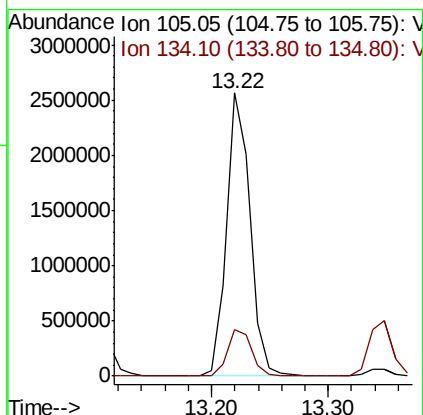
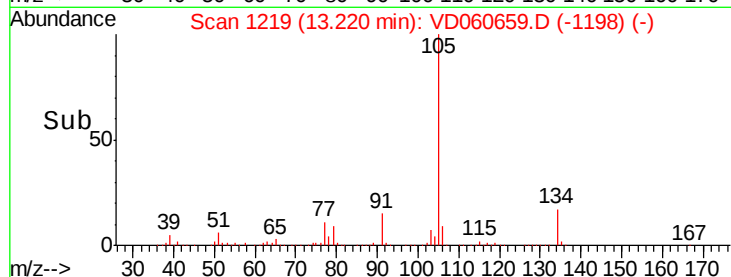
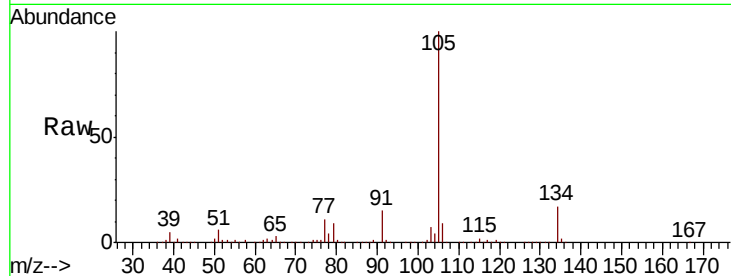




#85
 sec-Butylbenzene
 Concen: 48.561 ug/l
 RT: 13.22 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

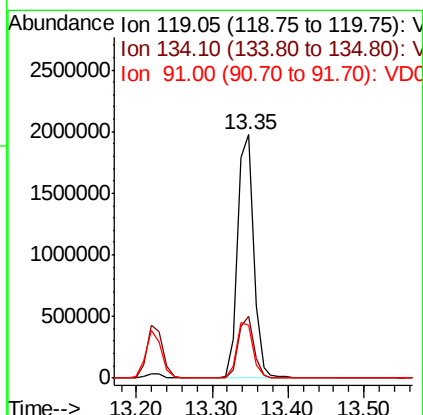
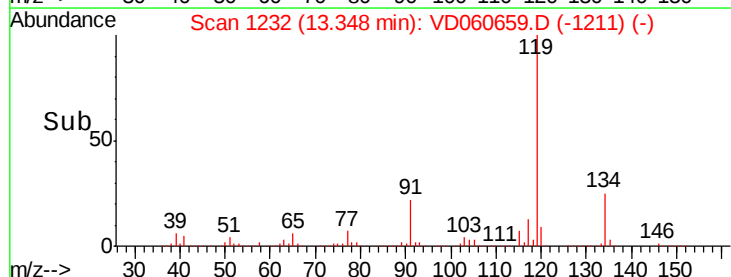
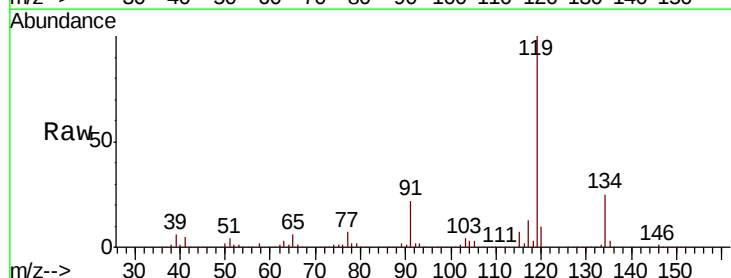
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

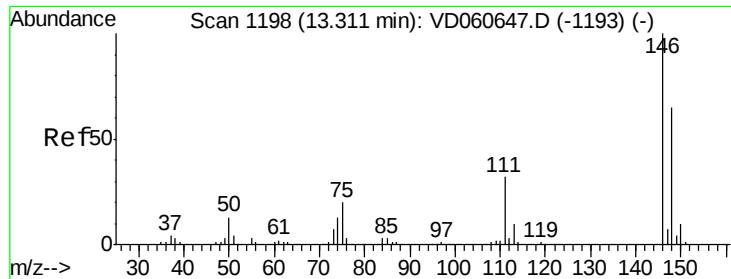
Tot Ion:105 Resp: 3562813
 Ion Ratio Lower Upper
 105 100
 134 16.6 8.2 24.4



#86
 p-Isopropyltoluene
 Concen: 48.193 ug/l
 RT: 13.35 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion:119 Resp: 2854130
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.5 37.5
 91 22.0 11.4 34.2

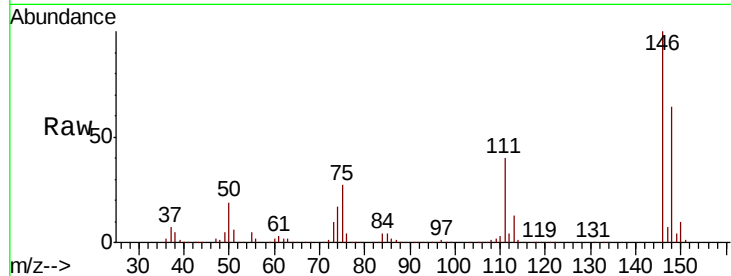




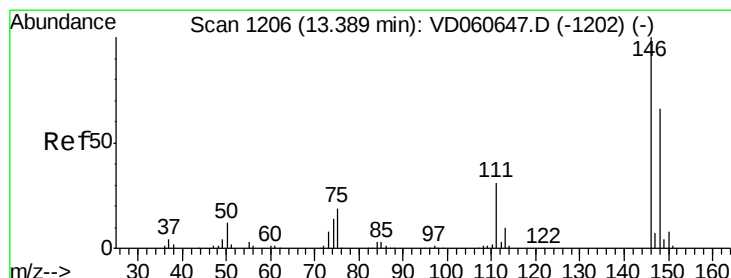
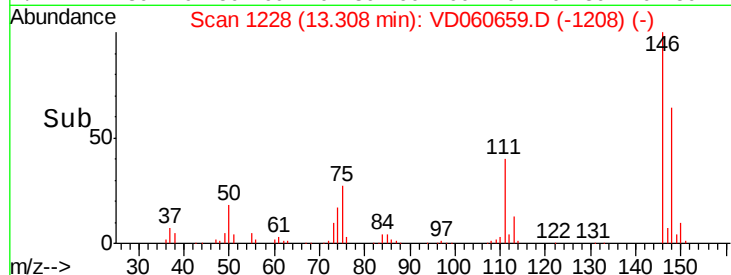
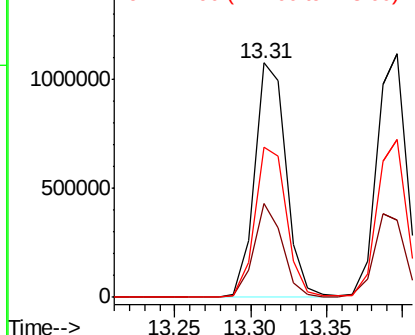
#87
 1,3-Dichlorobenzene
 Concen: 47.282 ug/l
 RT: 13.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

Tot Ion:146 Resp: 1568717
 Ion Ratio Lower Upper
 146 100
 111 40.2 16.6 49.8
 148 64.2 32.6 97.8

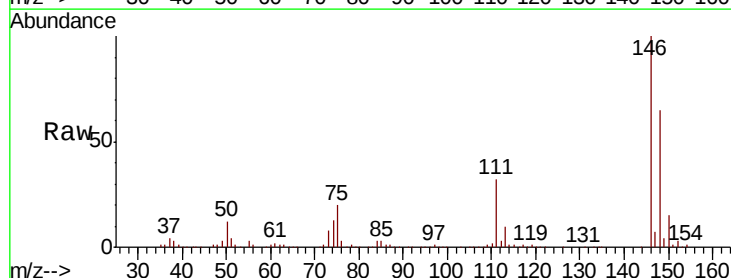


Abundance Ion 145.95 (145.65 to 146.65): V
 1500000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

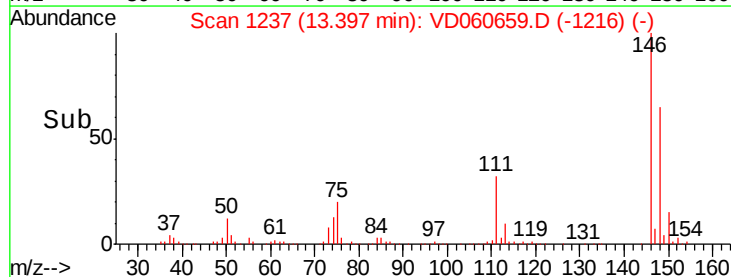
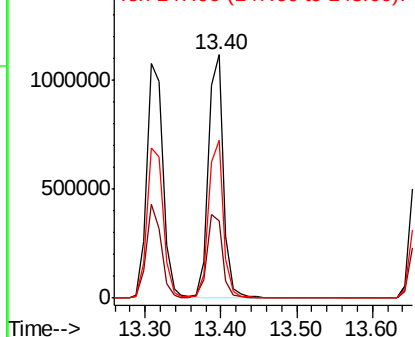


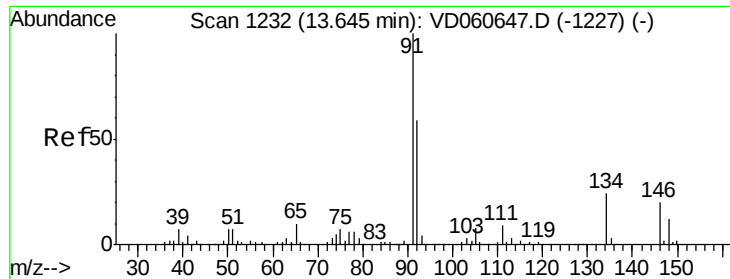
#88
 1,4-Dichlorobenzene
 Concen: 47.875 ug/l
 RT: 13.40 min Scan# 1237
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion:146 Resp: 1565201
 Ion Ratio Lower Upper
 146 100
 111 31.7 16.2 48.5
 148 64.8 32.7 98.1



Abundance Ion 145.95 (145.65 to 146.65): V
 1500000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

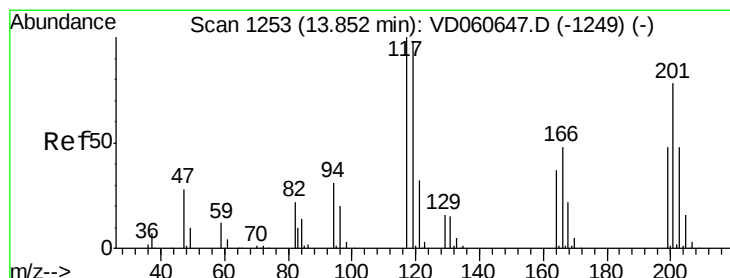
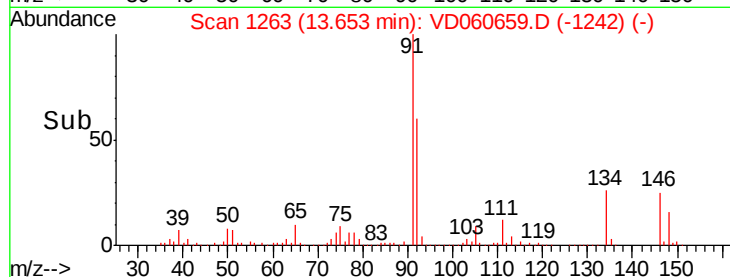
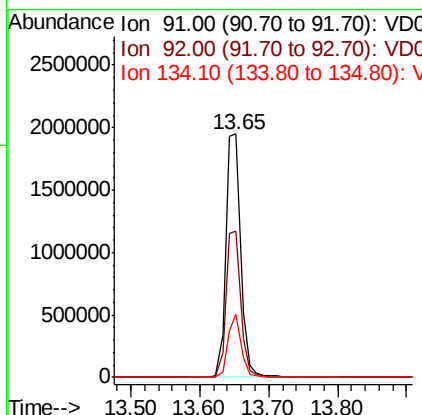
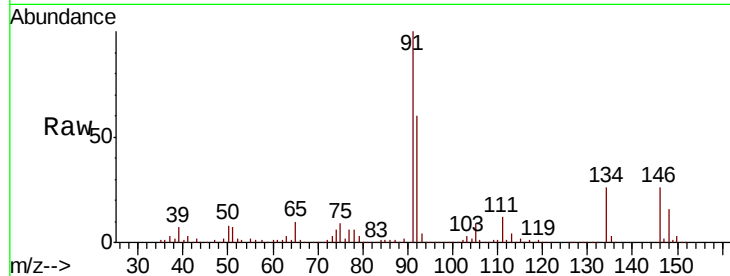




#89
n-Butylbenzene
Concen: 48.220 ug/l
RT: 13.65 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

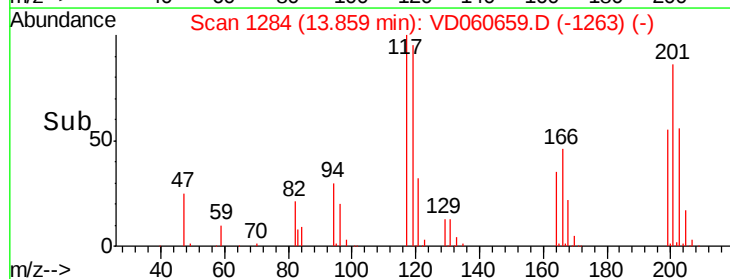
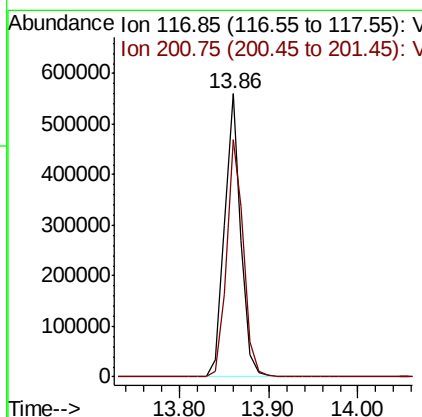
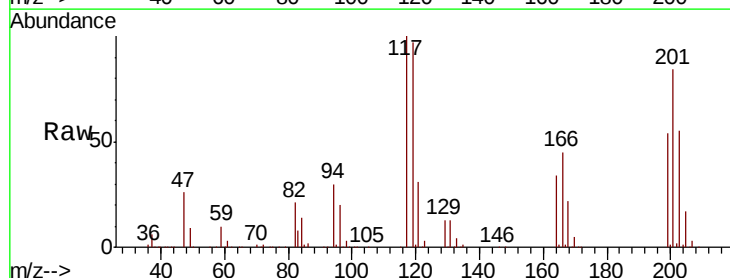
Instrument :
MSVOA_X
ClientSampleId :
ICVVD122018

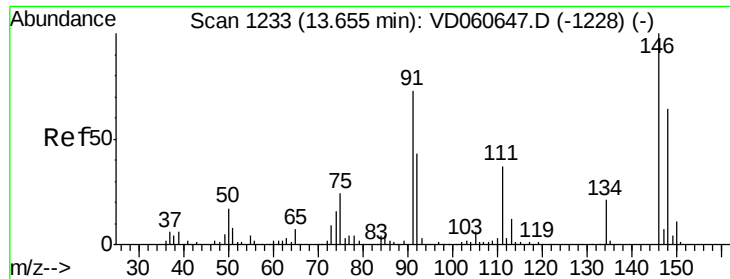
Tot Ion: 91 Resp: 2918266
Ion Ratio Lower Upper
91 100
92 59.9 29.7 89.1
134 25.8 12.7 38.1



#90
Hexachloroethane
Concen: 49.798 ug/l
RT: 13.86 min Scan# 1284
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 117 Resp: 724517
Ion Ratio Lower Upper
117 100
201 83.6 42.6 127.8

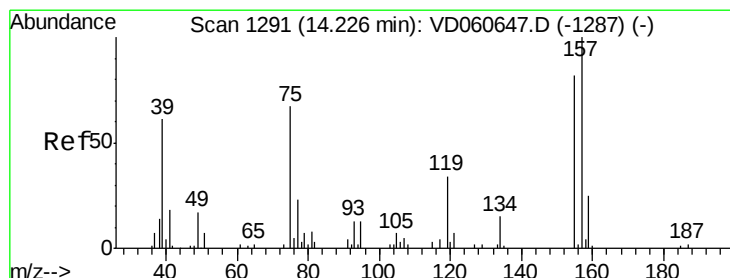
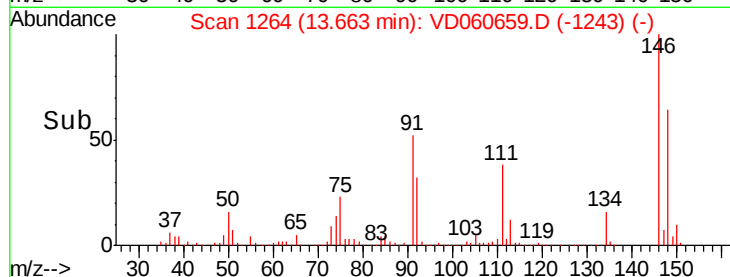
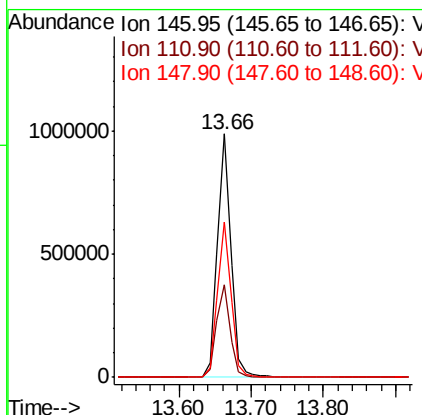
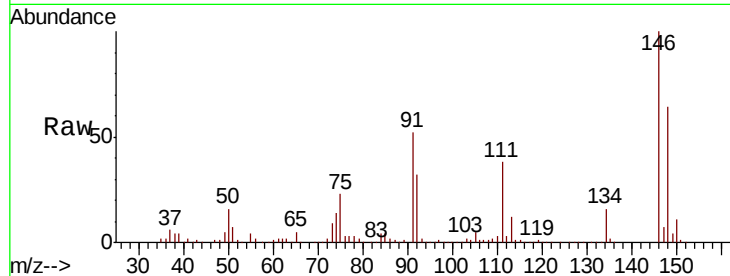




#91
 1,2-Dichlorobenzene
 Concen: 47.140 ug/l
 RT: 13.66 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

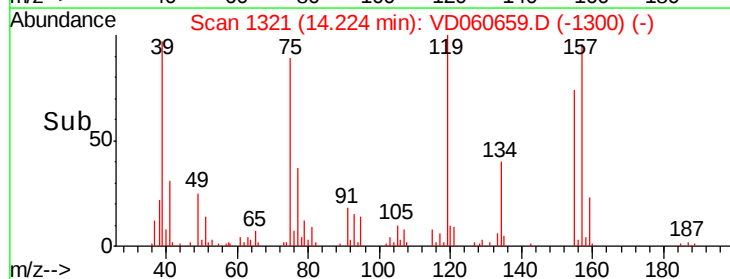
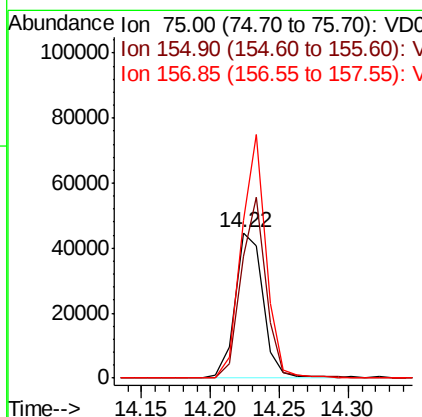
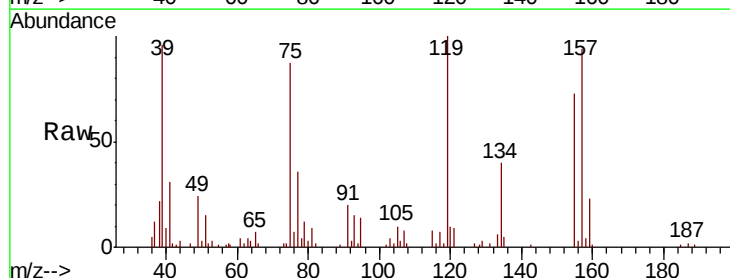
Instrument :
 MSVOA_X
 ClientSampled :
 ICVVD122018

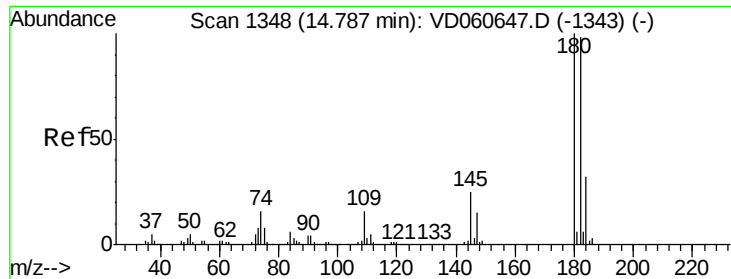
Tot Ion:146 Resp: 1254598
 Ion Ratio Lower Upper
 146 100
 111 38.2 19.3 57.9
 148 63.7 31.9 95.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.393 ug/l
 RT: 14.22 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 75 Resp: 63084
 Ion Ratio Lower Upper
 75 100
 155 84.0 41.1 123.4
 157 108.1 52.5 157.6

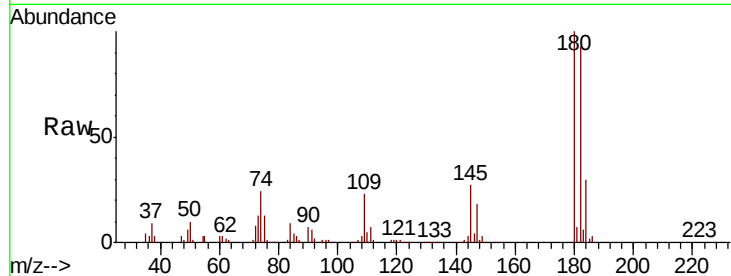




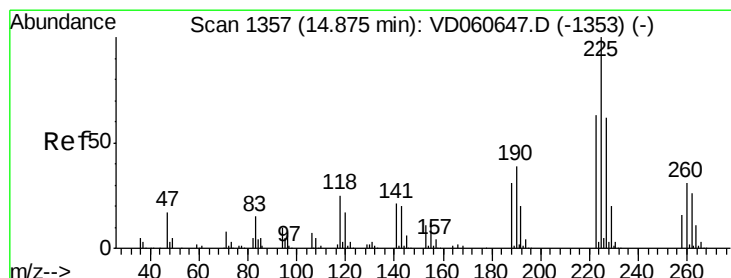
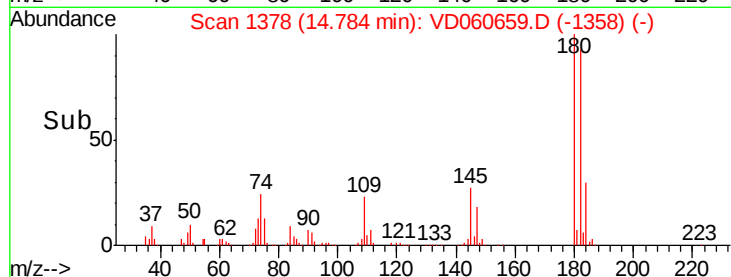
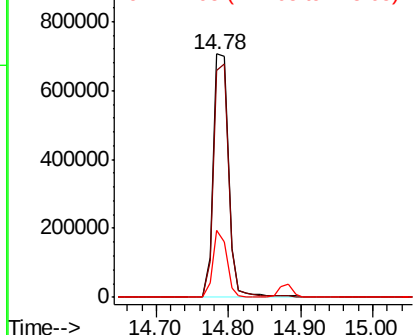
#93
 1,2,4-Trichlorobenzene
 Concen: 48.753 ug/l
 RT: 14.78 min Scan# 1378
 Delta R.T. -0.01 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVD122018

Tot Ion:180 Resp: 1032485
 Ion Ratio Lower Upper
 180 100
 182 93.3 48.8 146.4
 145 27.4 11.8 35.3

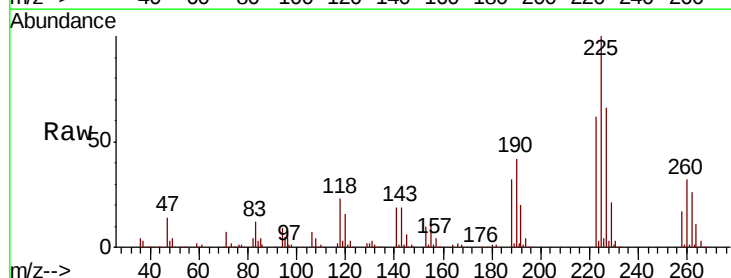


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

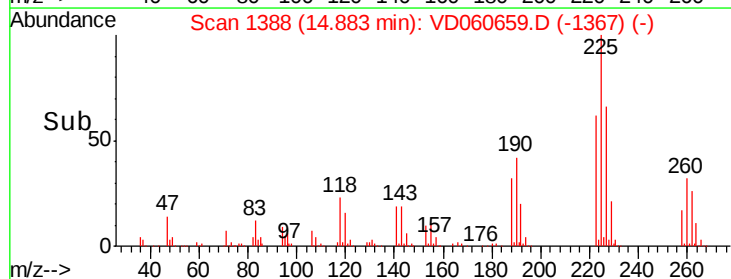
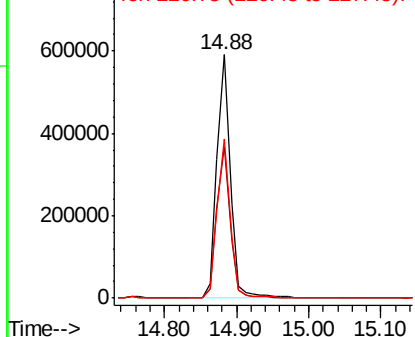


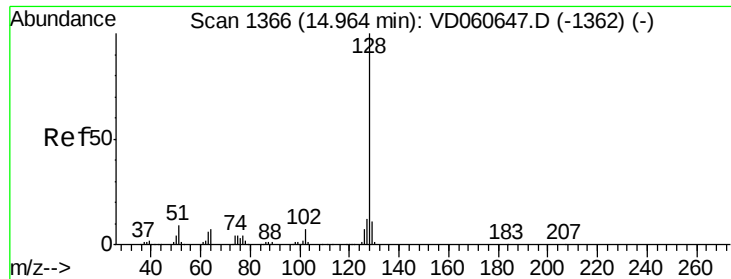
#94
 Hexachlorobutadiene
 Concen: 48.397 ug/l
 RT: 14.88 min Scan# 1388
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion:225 Resp: 757593
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.3 93.8
 227 65.6 32.5 97.4



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 48.914 ug/l

RT: 14.97 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_X

ClientSampled :

ICVVD122018

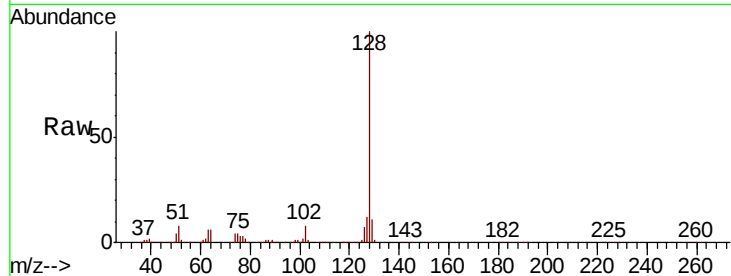
Tot Ion:128 Resp: 1231191

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

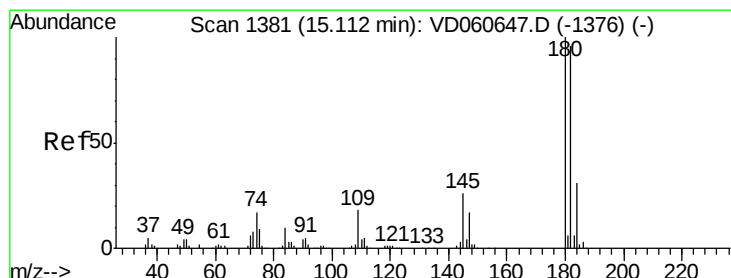
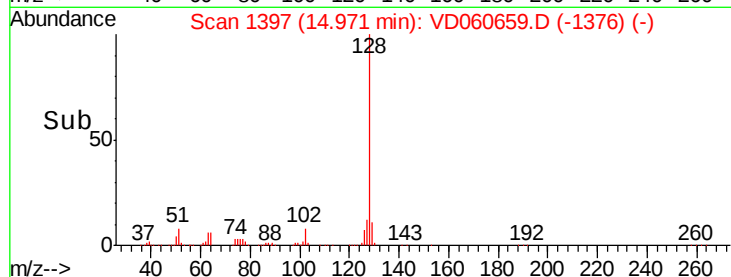
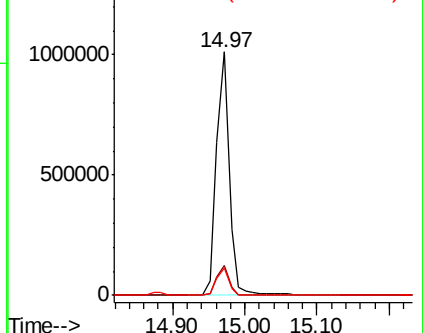
129 11.3 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 47.967 ug/l

RT: 15.12 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

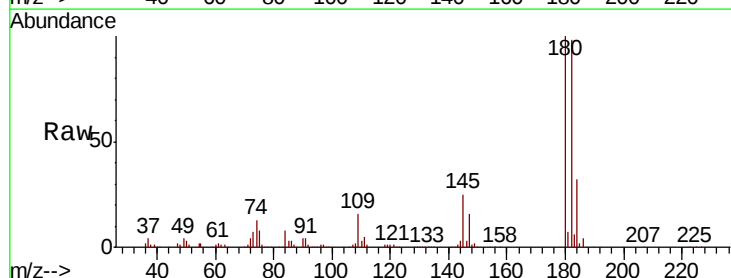
Tgt Ion:180 Resp: 794106

Ion Ratio Lower Upper

180 100

182 97.8 48.6 145.9

145 25.2 12.6 37.8



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

