

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040619\
 Data File : VD061643.D
 Acq On : 6 Apr 2019 15:12
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Quant Time: Apr 08 07:08:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 07:00:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	709020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1228723	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1022491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	436160	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	115276	22.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	44.14%	
35) Dibromofluoromethane	6.91	113	184876	22.18	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	44.36%	
50) Toluene-d8	10.41	98	435206	21.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	42.78%	
62) 4-Bromofluorobenzene	13.55	95	169899	21.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	43.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	166201	22.340	ug/l	100
3) Chloromethane	1.76	50	144749	24.112	ug/l	95
4) Vinyl Chloride	1.85	62	130748	22.673	ug/l	98
5) Bromomethane	2.15	94	24677	19.097	ug/l	96
6) Chloroethane	2.26	64	32835	18.122	ug/l	97
7) Trichlorofluoromethane	2.52	101	190784	22.479	ug/l	97
8) Diethyl Ether	2.88	74	50468	20.531	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.14	101	188676	22.330	ug/l	96
10) Methyl Iodide	3.30	142	205526	18.899	ug/l	97
11) Tert butyl alcohol	4.07	59	36263	100.497	ug/l	97
12) 1,1-Dichloroethene	3.12	96	170647	23.287	ug/l	99
13) Acrolein	3.04	56	48817	112.629	ug/l	99
14) Allyl chloride	3.62	41	217333	21.352	ug/l	98
15) Acrylonitrile	4.20	53	136031	114.409	ug/l	99
16) Acetone	3.22	43	151020	96.887	ug/l	95
17) Carbon Disulfide	3.37	76	531689	22.316	ug/l	100
18) Methyl Acetate	3.64	43	62860	20.748	ug/l	96
19) Methyl tert-butyl Ether	4.24	73	280789	22.362	ug/l	99
20) Methylene Chloride	3.81	84	186971	20.996	ug/l	98
21) trans-1,2-Dichloroethene	4.22	96	180820	22.882	ug/l	99
22) Diisopropyl ether	5.11	45	449300	21.522	ug/l	99
23) Vinyl Acetate	5.04	43	1225178	106.172	ug/l	100
24) 1,1-Dichloroethane	4.98	63	275363	21.403	ug/l	100
25) 2-Butanone	6.06	43	189606	104.086	ug/l	99
26) 2,2-Dichloropropane	6.02	77	230369	22.039	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	188831	22.422	ug/l	95
28) Bromochloromethane	6.43	49	93711	20.396	ug/l	95
29) Tetrahydrofuran	6.45	42	94171	107.945	ug/l	98
30) Chloroform	6.66	83	289750	21.640	ug/l	99
31) Cyclohexane	6.94	56	221356	22.438	ug/l	94
32) 1,1,1-Trichloroethane	6.86	97	262036	22.281	ug/l	95
36) 1,1-Dichloropropene	7.14	75	232911	21.201	ug/l	98
37) Ethyl Acetate	6.18	43	90081	19.752	ug/l	97
38) Carbon Tetrachloride	7.10	117	264519	20.845	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	224184	19.575	ug/l	99
40) Benzene	7.45	78	529644	19.926	ug/l	98
41) Methacrylonitrile	6.44	41	106477	20.716	ug/l #	98
42) 1,2-Dichloroethane	7.57	62	169713	20.201	ug/l	99
43) Isopropyl Acetate	9.24	43	136340	20.803	ug/l #	100
44) Trichloroethene	8.54	130	205021	20.247	ug/l	91
45) 1,2-Dichloropropane	8.93	63	143324	22.012	ug/l	98
46) Dibromomethane	9.06	93	95793	20.756	ug/l	94
47) Bromodichloromethane	9.37	83	215576	20.896	ug/l	100
48) Methyl methacrylate	9.12	41	75825	20.924	ug/l	98
49) 1,4-Dioxane	9.07	88	17449	435.027	ug/l	99
51) 4-Methyl-2-Pentanone	10.29	43	411020	106.509	ug/l	100
52) Toluene	10.50	92	350337	21.277	ug/l	96
53) t-1,3-Dichloropropene	10.91	75	175849	19.301	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	238772	21.274	ug/l	98
55) 1,1,2-Trichloroethane	11.19	97	118507	21.829	ug/l	98
56) Ethyl methacrylate	11.04	69	116022	19.669	ug/l	98
57) 1,3-Dichloropropane	11.40	76	168979	20.615	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.85	63	279894	104.736	ug/l	96
59) 2-Hexanone	11.53	43	308648	105.980	ug/l	97
60) Dibromochloromethane	11.68	129	183589	21.245	ug/l	99
61) 1,2-Dibromoethane	11.80	107	137714	21.496	ug/l	93
64) Tetrachloroethene	11.26	164	162951	20.885	ug/l	98
65) Chlorobenzene	12.40	112	432235	21.442	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.51	131	158741	19.803	ug/l	98
67) Ethyl Benzene	12.52	91	645585	20.105	ug/l	100
68) m/p-Xylenes	12.66	106	534148	45.035	ug/l	99
69) o-Xylene	13.05	106	241436	21.048	ug/l	91
70) Styrene	13.07	104	404355	20.585	ug/l	100
71) Bromoform	13.23	173	97697	20.422	ug/l	99
73) Isopropylbenzene	13.40	105	687819	23.431	ug/l	100
74) N-amyl acetate	13.26	43	163747	20.639	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	128104	21.824	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	119085	20.347	ug/l	98
77) Bromobenzene	13.67	156	163604	19.023	ug/l	83
78) n-propylbenzene	13.77	91	814320	23.583	ug/l	100
79) 2-Chlorotoluene	13.83	91	452514	22.917	ug/l	95
80) 1,3,5-Trimethylbenzene	13.93	105	528923	22.958	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	39305	21.698	ug/l	94
82) 4-Chlorotoluene	13.94	91	517084	23.967	ug/l	93
83) tert-Butylbenzene	14.19	119	631640	22.916	ug/l	93
84) 1,2,4-Trimethylbenzene	14.24	105	540484	22.830	ug/l	97
85) sec-Butylbenzene	14.37	105	701959	23.844	ug/l	95
86) p-Isopropyltoluene	14.48	119	516663	19.023	ug/l	96
87) 1,3-Dichlorobenzene	14.45	146	317116	21.651	ug/l	96
88) 1,4-Dichlorobenzene	14.53	146	335310	23.112	ug/l	97
89) n-Butylbenzene	14.80	91	525954	22.557	ug/l	97
90) Hexachloroethane	15.01	117	164943	23.528	ug/l	81
91) 1,2-Dichlorobenzene	14.81	146	278664	23.201	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	14522	19.774	ug/l	70

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QLast Update : Mon Apr 08 07:00:37 2019
Response via : Initial Calibration

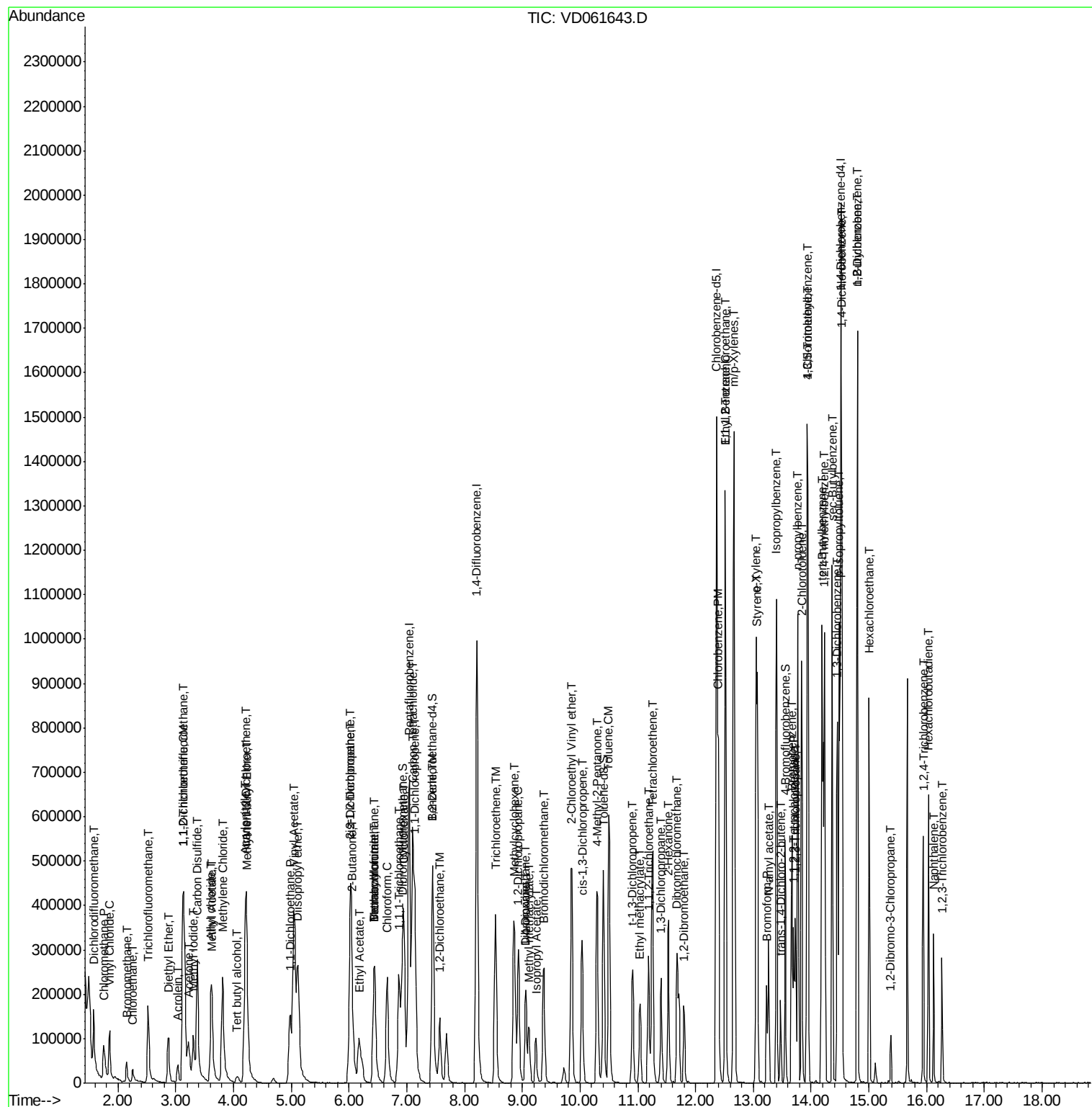
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	136977	22.543	ug/l	98
94) Hexachlorobutadiene	16.03	225	107949	23.088	ug/l	99
95) Naphthalene	16.12	128	202355	21.116	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	70618	23.472	ug/l	98

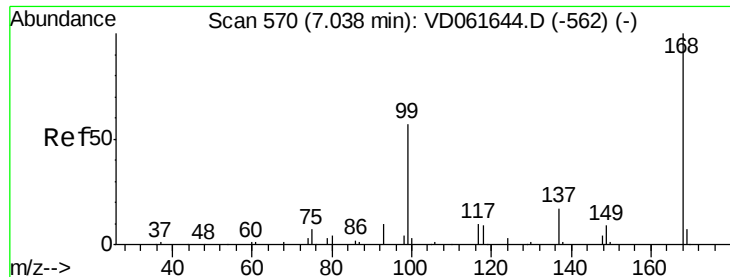
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040619\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

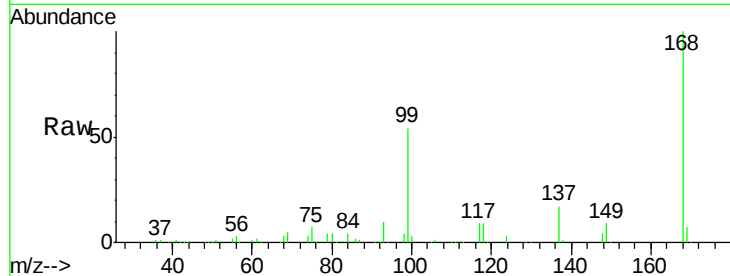
VSTDIC020

Tot Ion:168 Resp: 709020

Ion Ratio Lower Upper

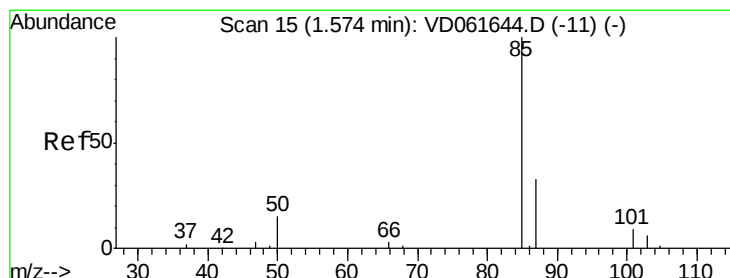
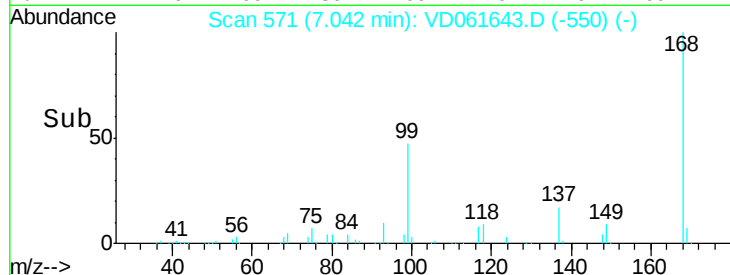
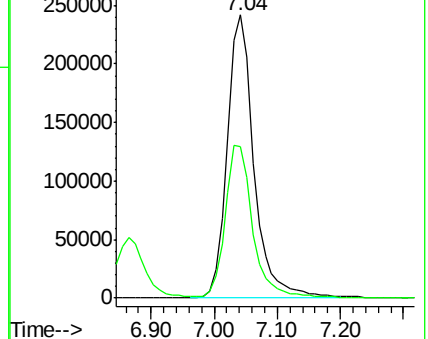
168 100

99 53.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 22.340 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.00 min

Lab File: VD061643.D

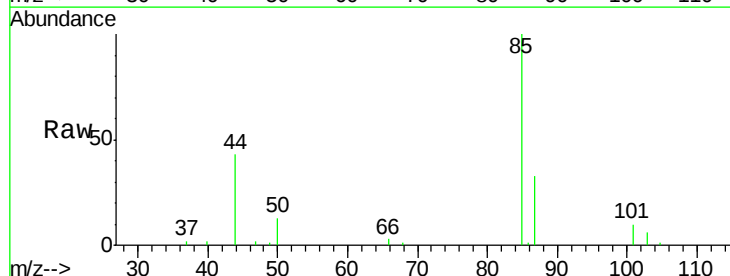
Acq: 6 Apr 2019 15:12

Tgt Ion: 85 Resp: 166201

Ion Ratio Lower Upper

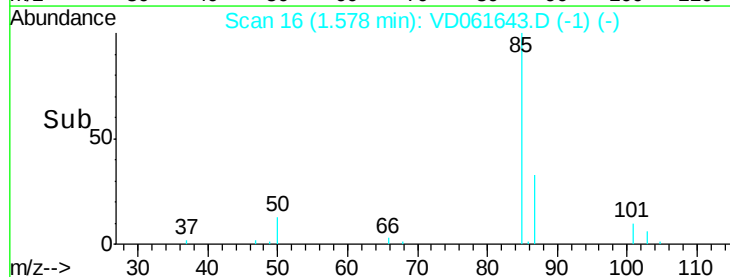
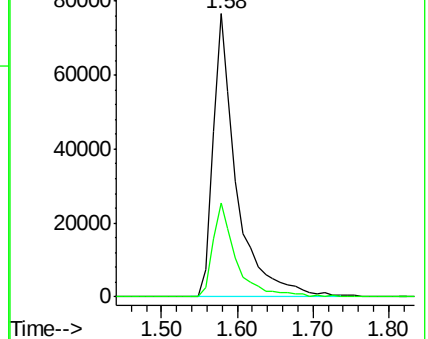
85 100

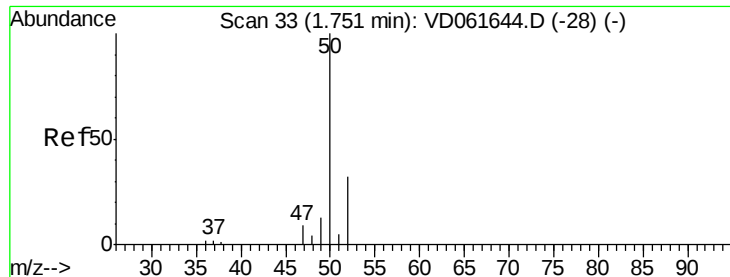
87 33.0 16.6 49.8



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 24.112 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

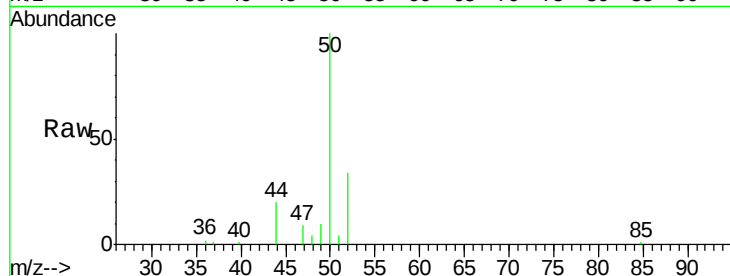
VSTDIC020

Tot Ion: 50 Resp: 144749

Ion Ratio Lower Upper

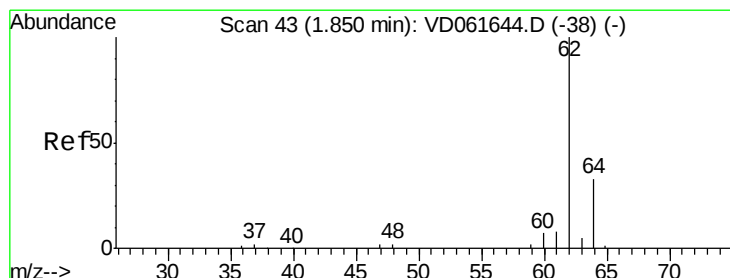
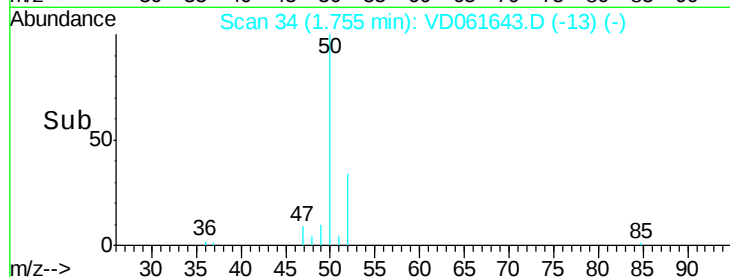
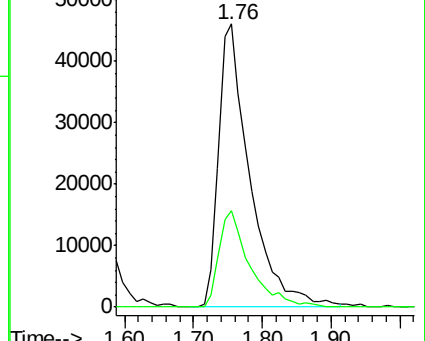
50 100

52 34.1 25.1 37.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 22.673 ug/l

RT: 1.85 min Scan# 44

Delta R.T. 0.00 min

Lab File: VD061643.D

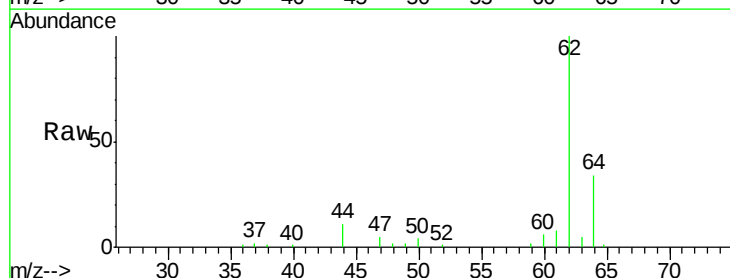
Acq: 6 Apr 2019 15:12

Tgt Ion: 62 Resp: 130748

Ion Ratio Lower Upper

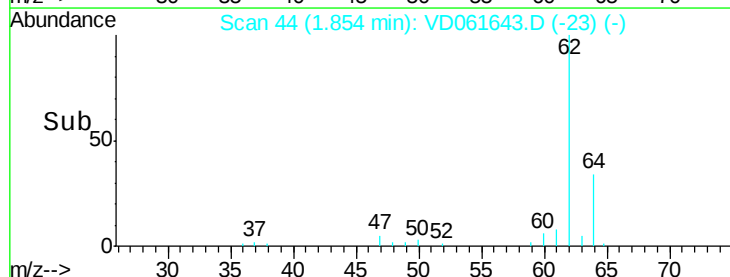
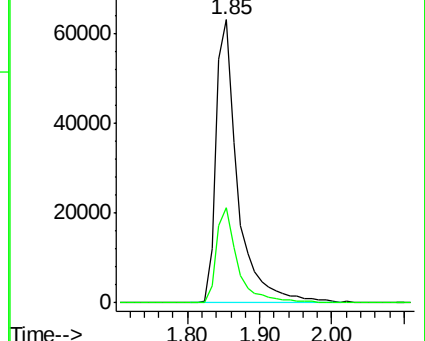
62 100

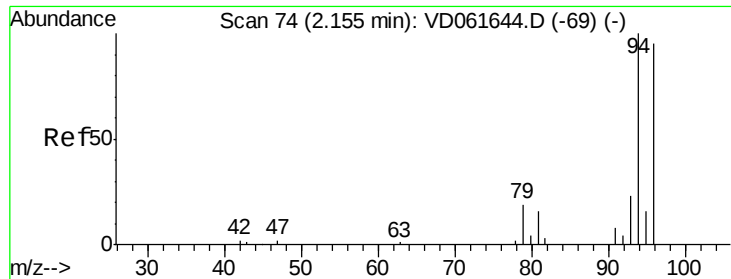
64 33.7 26.2 39.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 19.097 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

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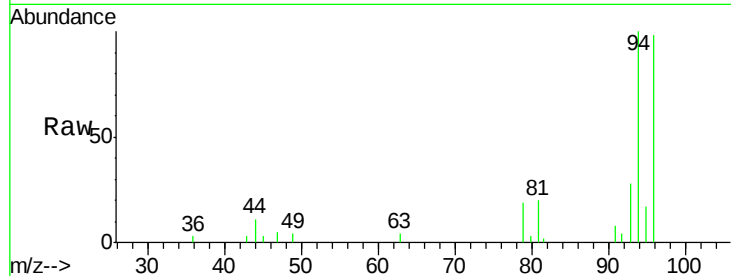
Tot Ion: 94 Resp: 24677

Ion Ratio Lower Upper

94 100

96 97.7 75.8 113.8

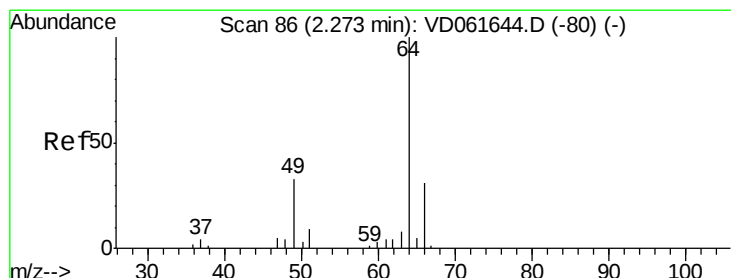
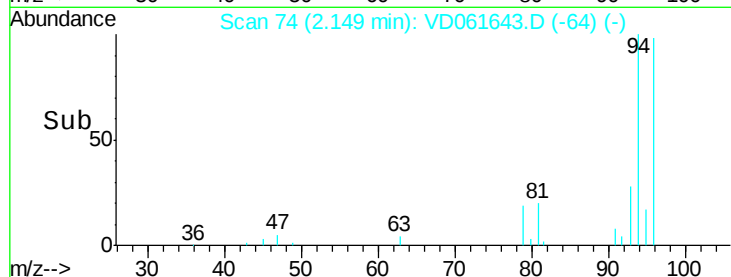
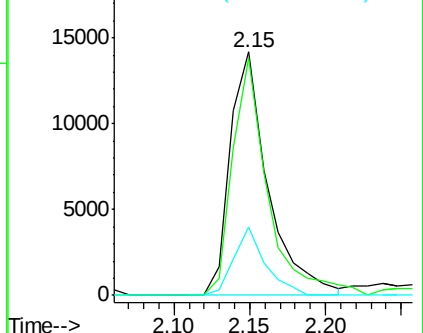
93 27.8 18.6 28.0



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 18.122 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.02 min

Lab File: VD061643.D

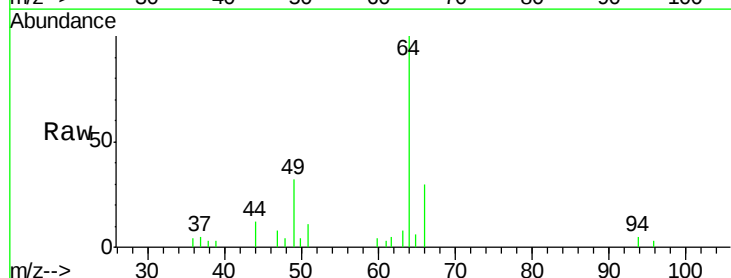
Acq: 6 Apr 2019 15:12

Tgt Ion: 64 Resp: 32835

Ion Ratio Lower Upper

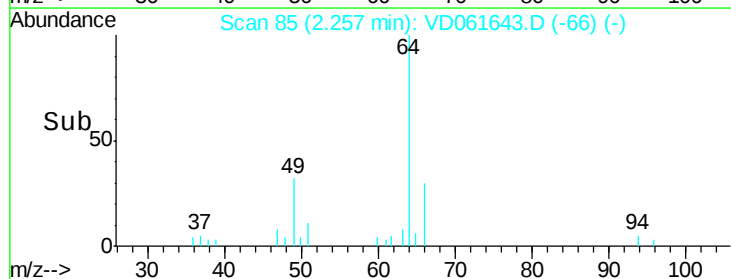
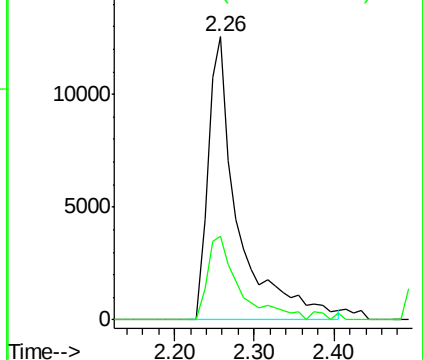
64 100

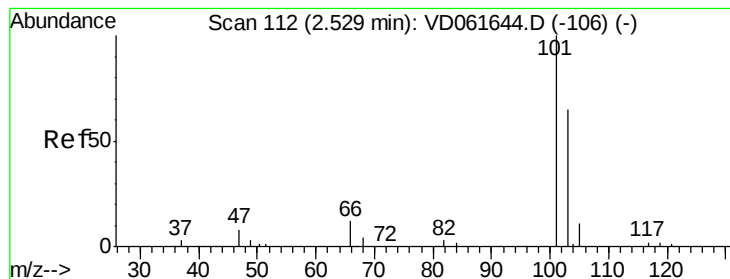
66 29.5 24.9 37.3



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



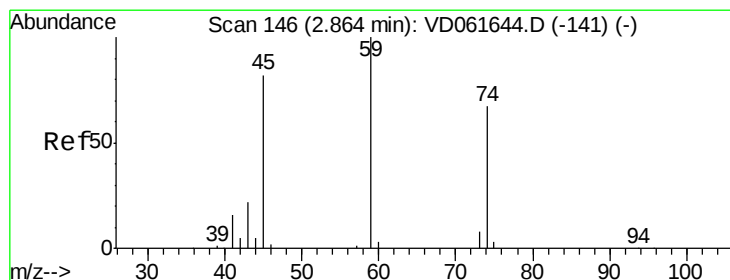
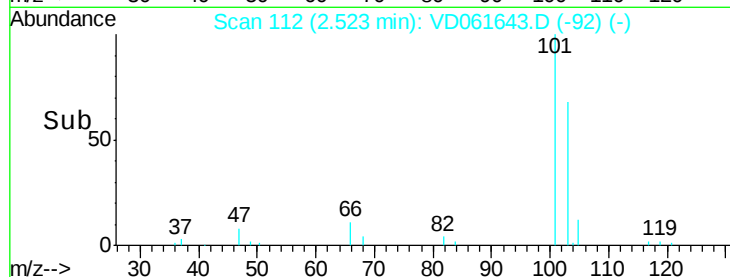
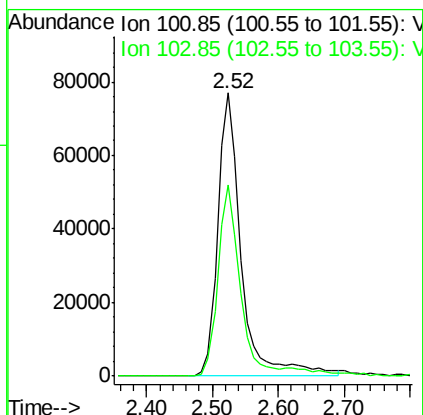
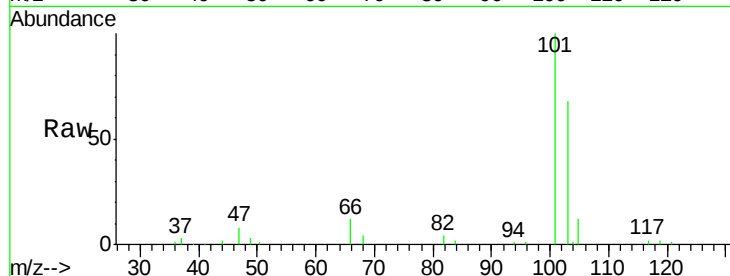


#7

Trichlorofluoromethane
 Concen: 22.479 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
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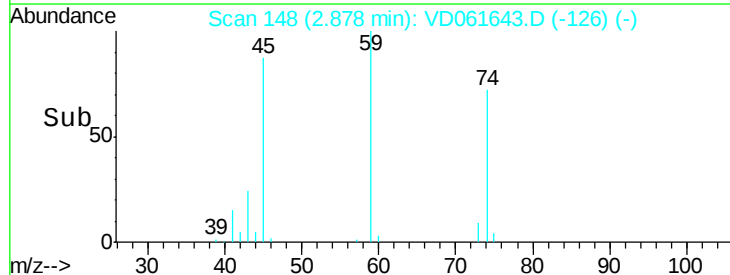
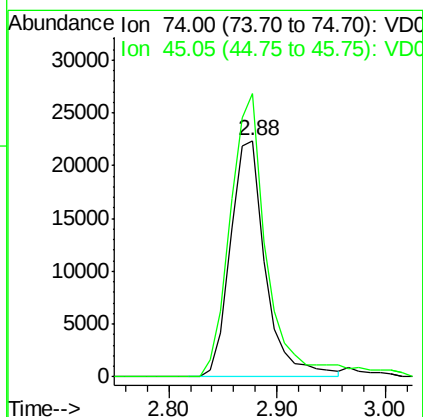
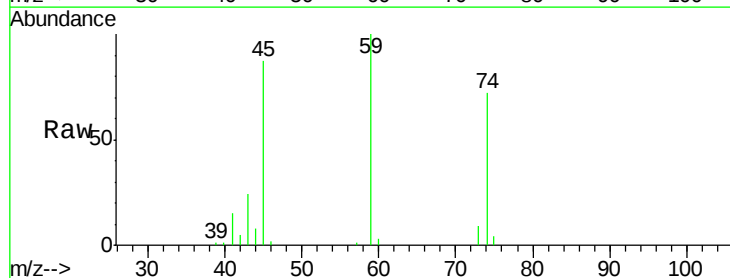
Tot Ion:101 Resp: 190784
 Ion Ratio Lower Upper
 101 100
 103 67.6 52.0 78.0

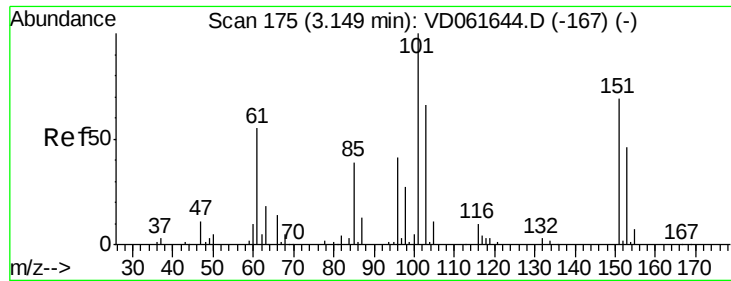


#8

Diethyl Ether
 Concen: 20.531 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion: 74 Resp: 50468
 Ion Ratio Lower Upper
 74 100
 45 119.8 61.0 183.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.330 ug/l

RT: 3.14 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

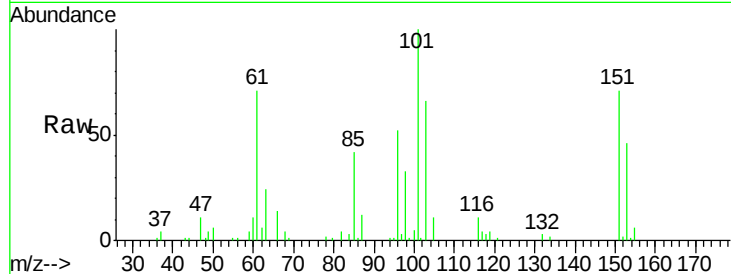
Tot Ion:101 Resp: 188676

Ion Ratio Lower Upper

101 100

85 42.0 31.0 46.6

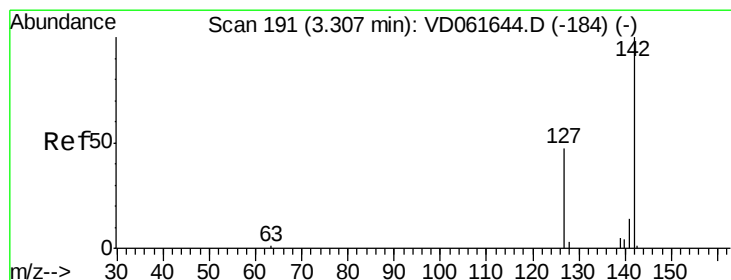
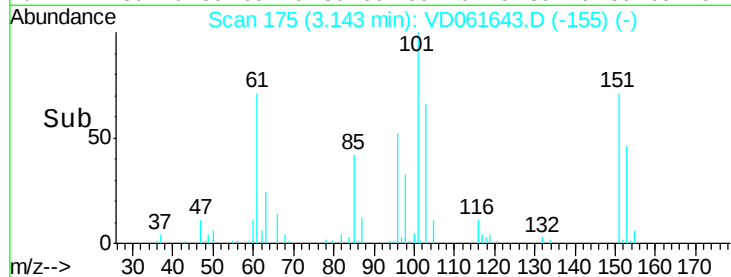
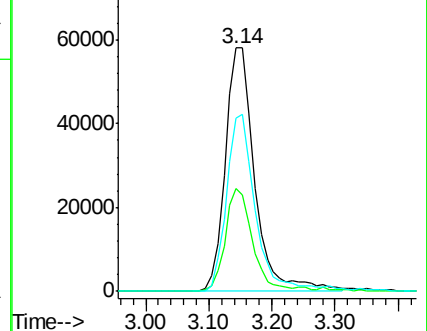
151 71.3 55.3 82.9



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: 18.899 ug/l

RT: 3.30 min Scan# 191

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

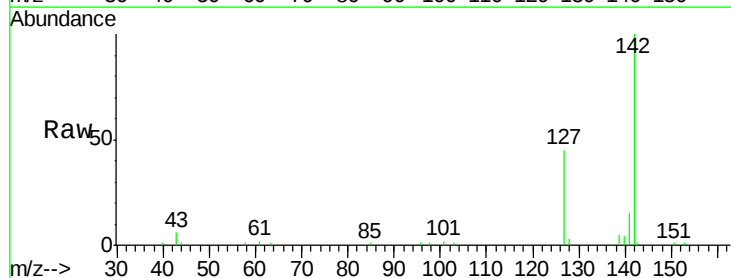
Tgt Ion:142 Resp: 205526

Ion Ratio Lower Upper

142 100

127 44.8 37.2 55.8

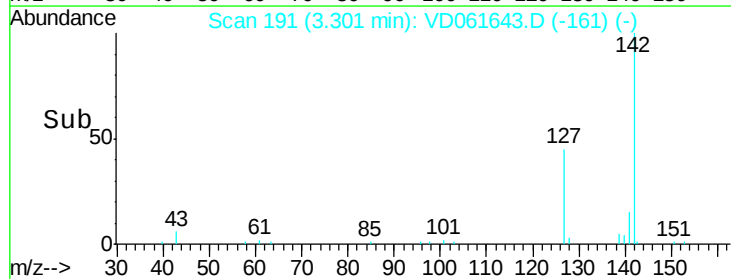
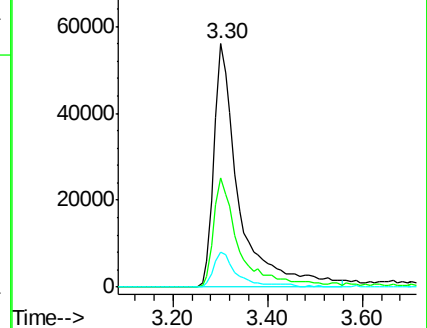
141 14.6 10.8 16.2

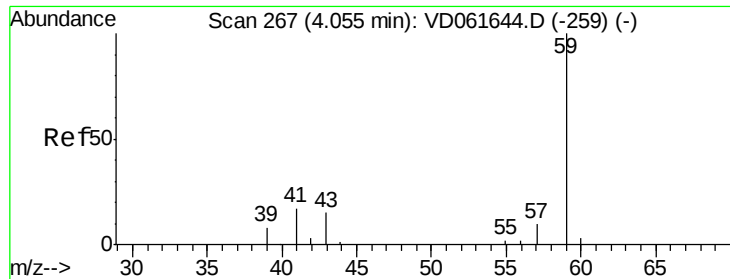


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

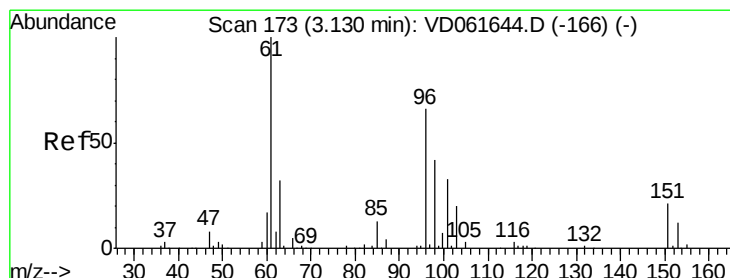
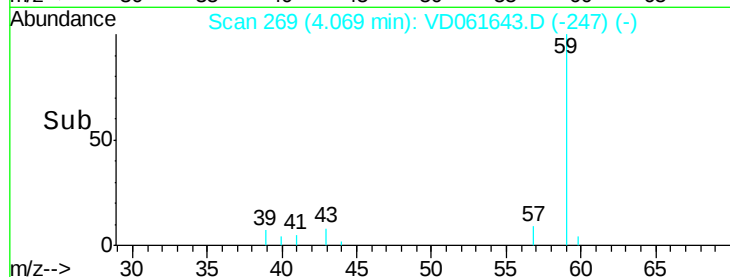
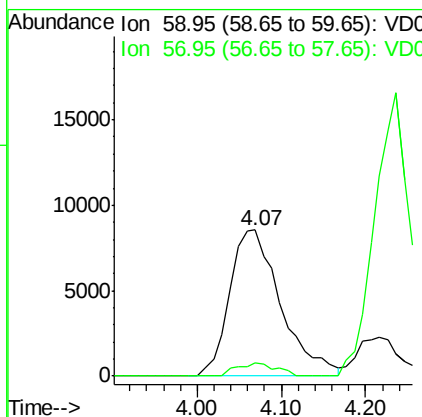
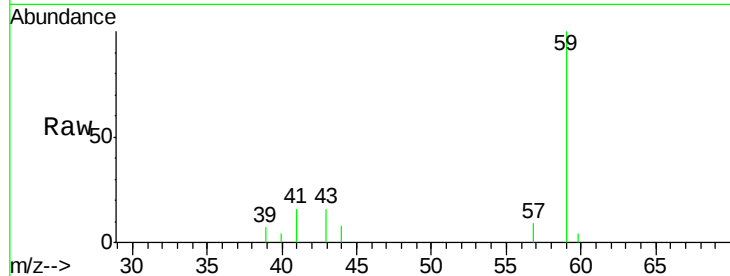




#11
Tert butyl alcohol
Concen: 100.497 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

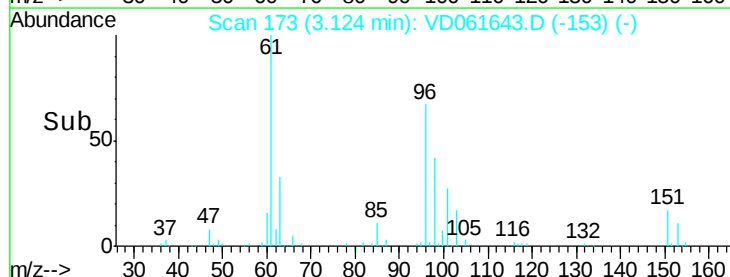
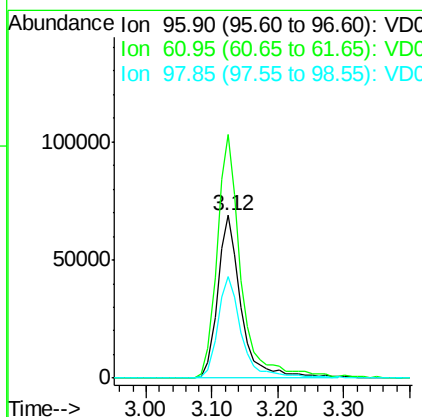
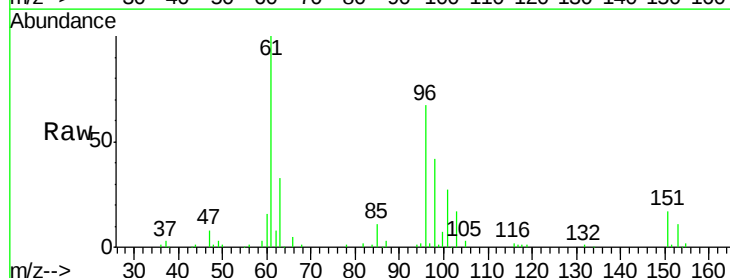
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

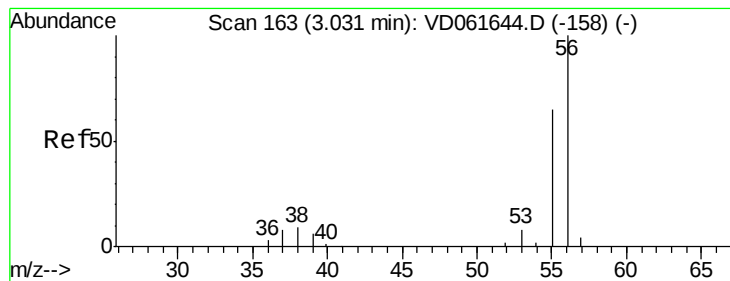
Tot Ion: 59 Resp: 36263
Ion Ratio Lower Upper
59 100
57 9.5 8.4 12.6



#12
1,1-Dichloroethene
Concen: 23.287 ug/l
RT: 3.12 min Scan# 173
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 96 Resp: 170647
Ion Ratio Lower Upper
96 100
61 149.5 121.3 181.9
98 62.4 50.6 76.0





#13

Acrolein

Concen: 112.629 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

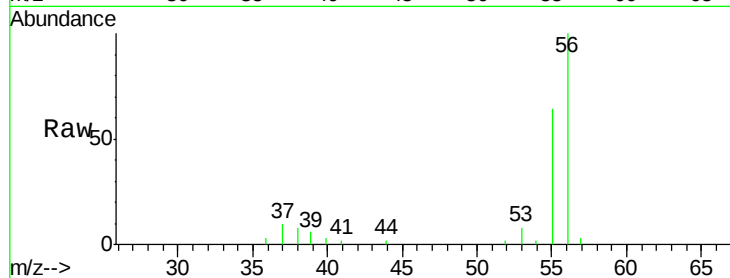
VSTDIC020

Tot Ion: 56 Resp: 48817

Ion Ratio Lower Upper

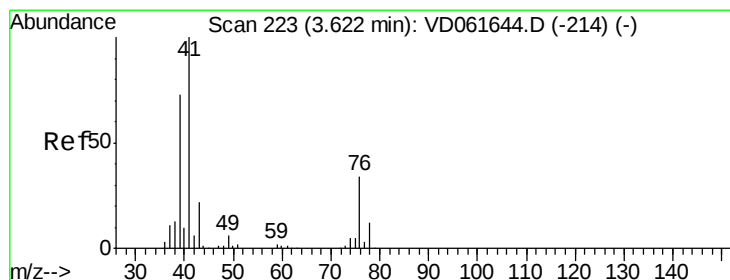
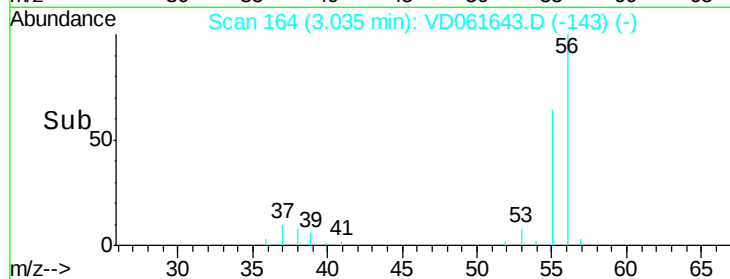
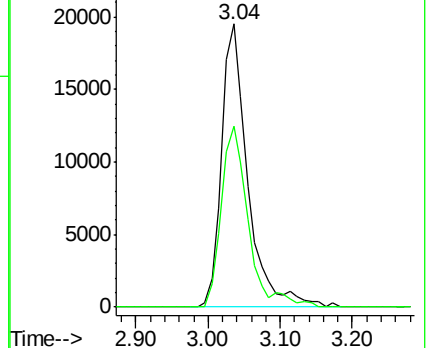
56 100

55 64.1 51.8 77.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.352 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

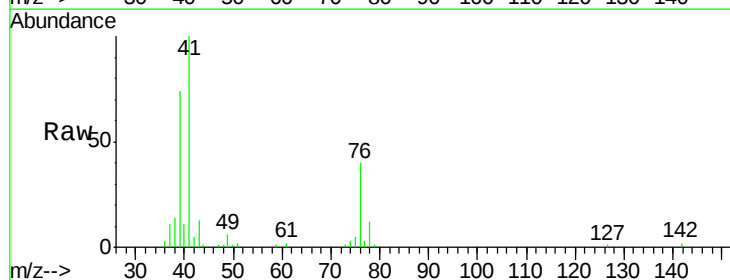
Tgt Ion: 41 Resp: 217333

Ion Ratio Lower Upper

41 100

39 74.1 58.2 87.4

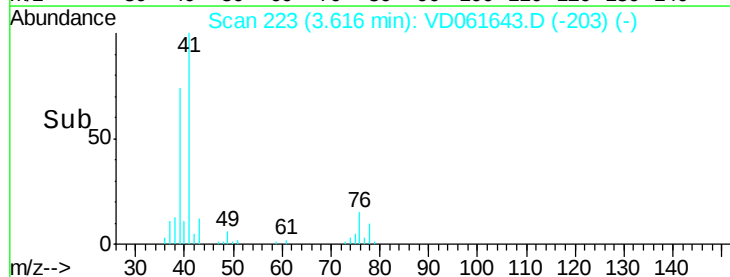
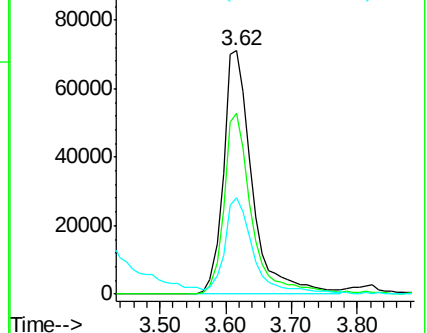
76 39.6 29.8 44.6

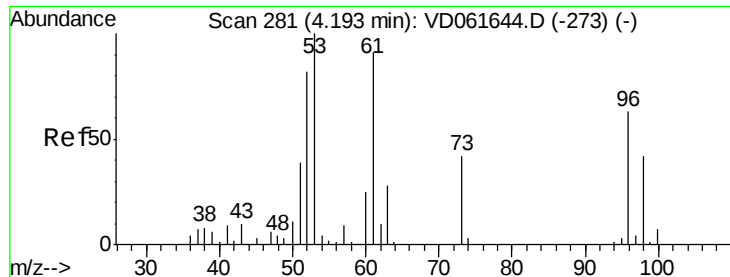


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 114.409 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

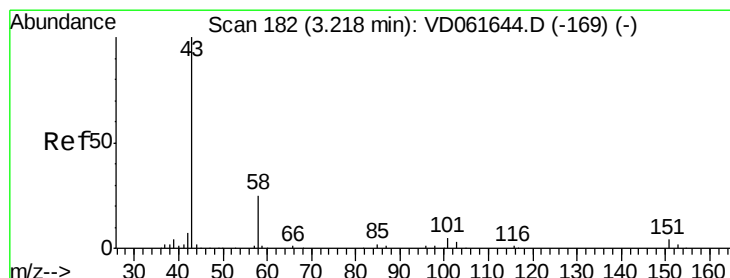
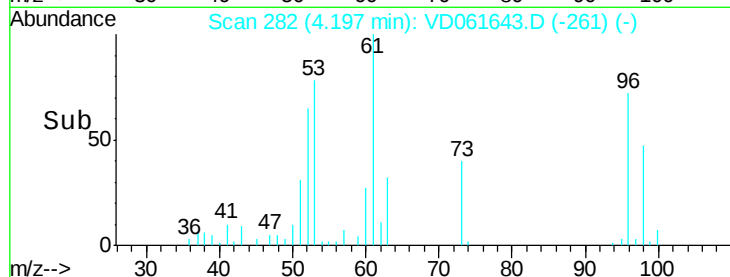
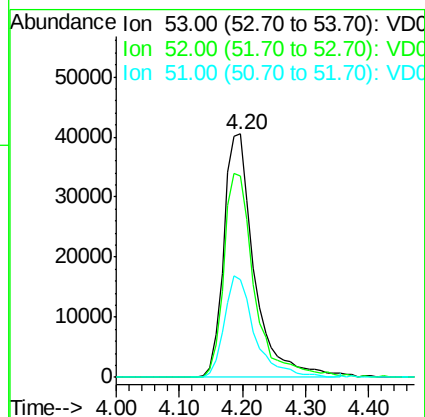
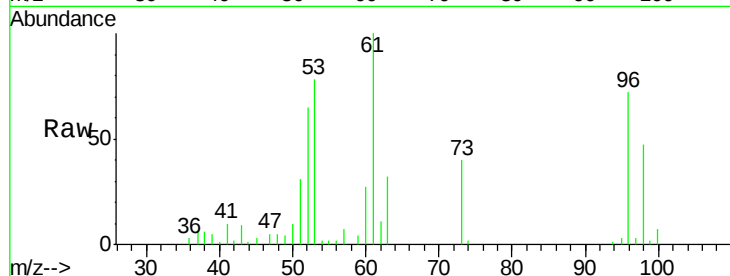
Tot Ion: 53 Resp: 136031

Ion Ratio Lower Upper

53 100

52 82.7 65.9 98.9

51 40.0 31.4 47.2



#16

Acetone

Concen: 96.887 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD061643.D

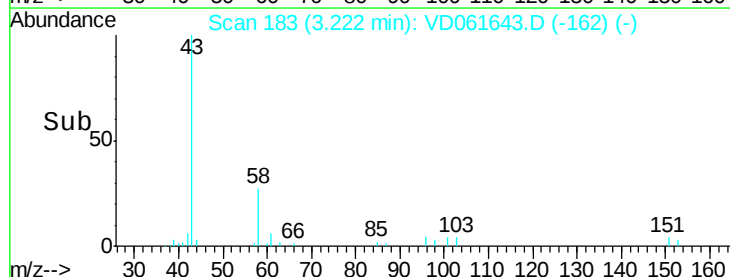
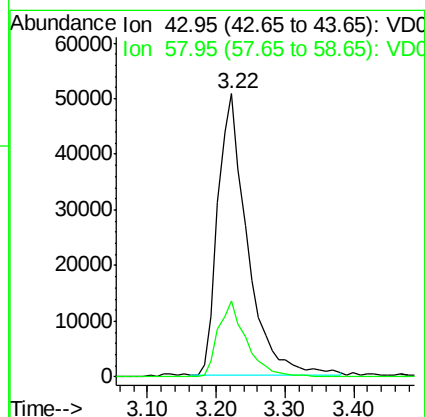
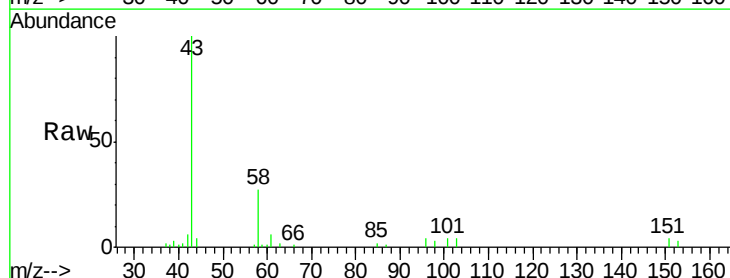
Acq: 6 Apr 2019 15:12

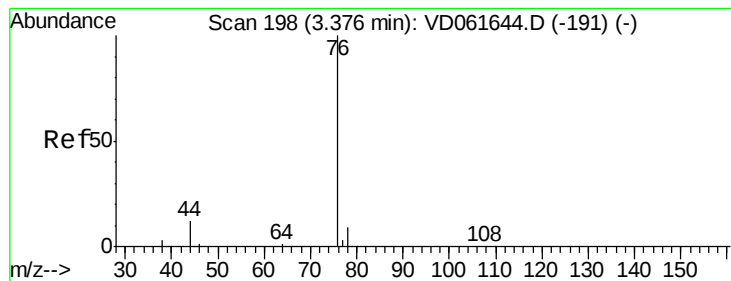
Tgt Ion: 43 Resp: 151020

Ion Ratio Lower Upper

43 100

58 26.9 19.7 29.5





#17

Carbon Disulfide

Concen: 22.316 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

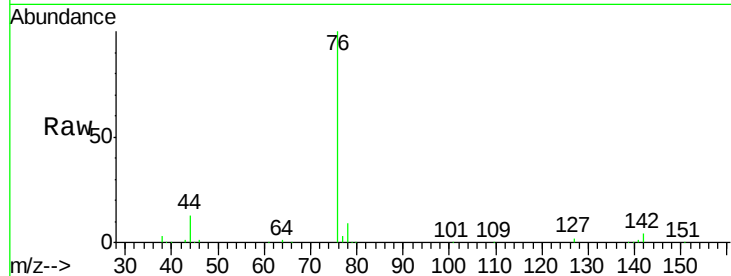
VSTDIC020

Tot Ion: 76 Resp: 531689

Ion Ratio Lower Upper

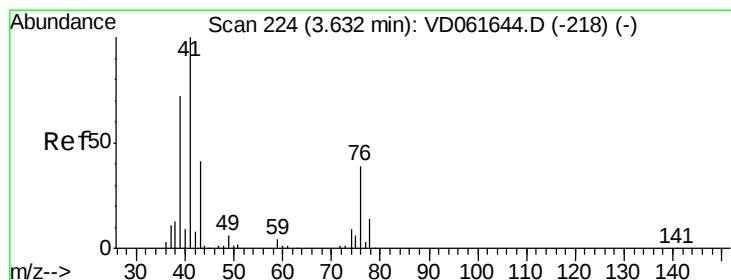
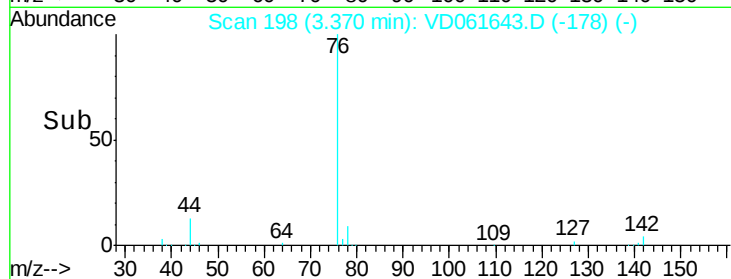
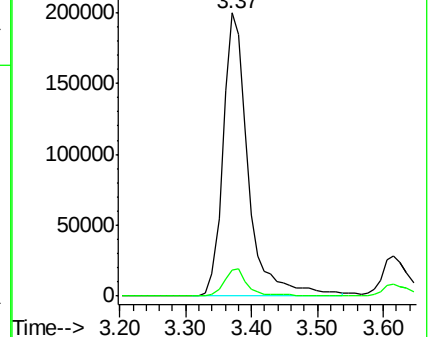
76 100

78 9.2 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 20.748 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.00 min

Lab File: VD061643.D

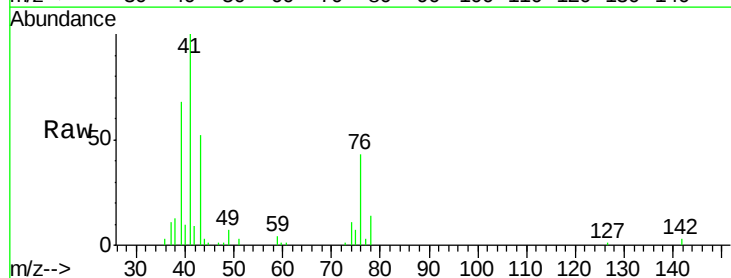
Acq: 6 Apr 2019 15:12

Tgt Ion: 43 Resp: 62860

Ion Ratio Lower Upper

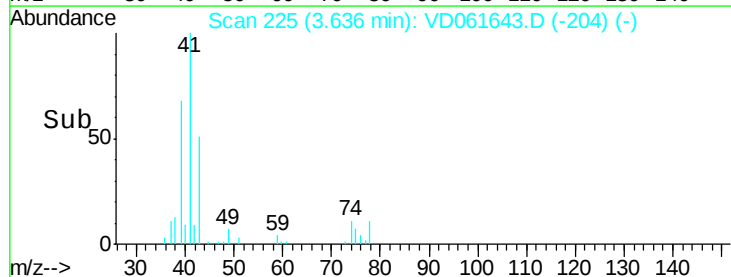
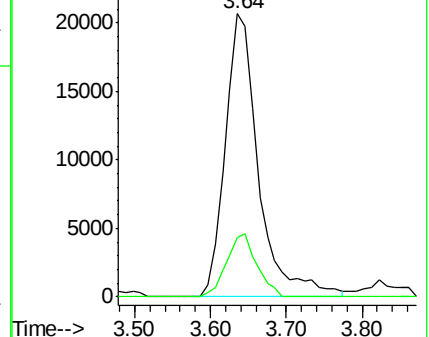
43 100

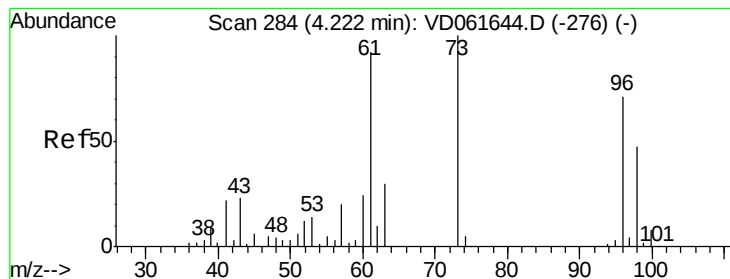
74 20.9 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



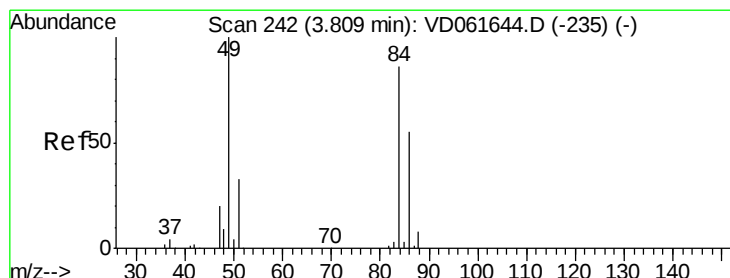
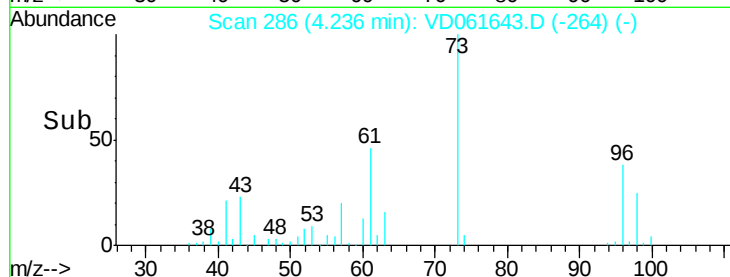
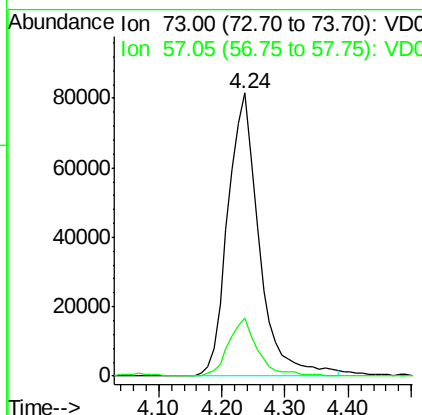
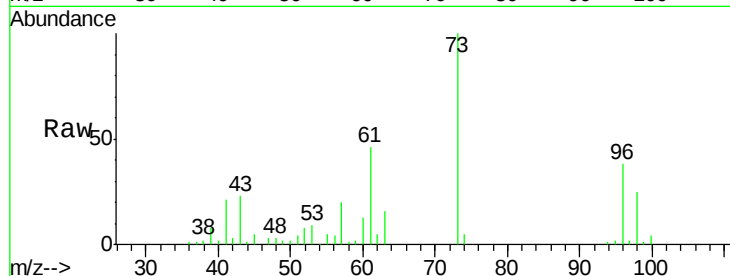


#19

Methyl tert-butyl Ether
 Concen: 22.362 ug/l
 RT: 4.24 min Scan# 286
 Delta R.T. 0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

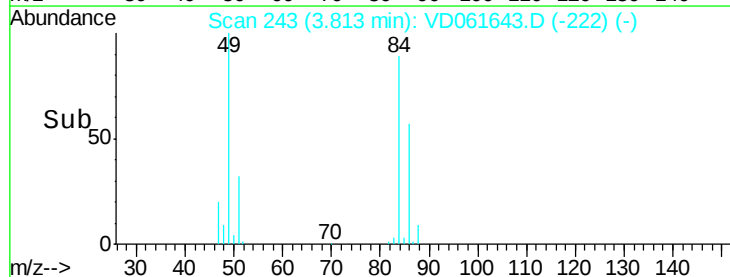
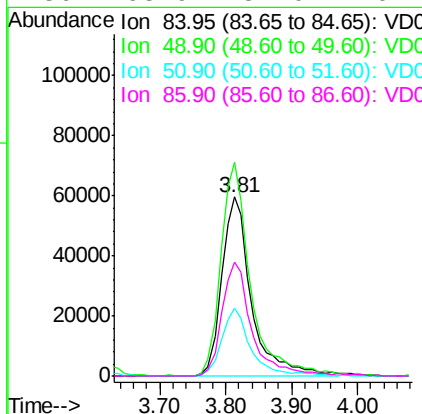
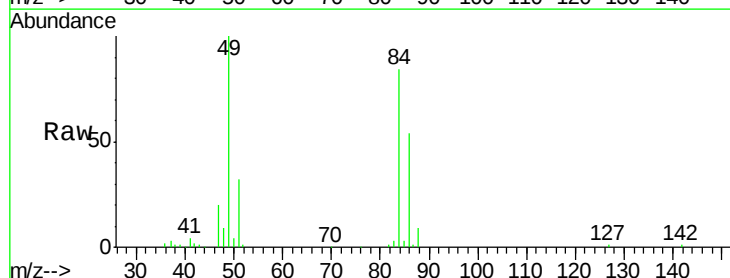
Tot Ion: 73 Resp: 280789
 Ion Ratio Lower Upper
 73 100
 57 20.3 16.0 24.0

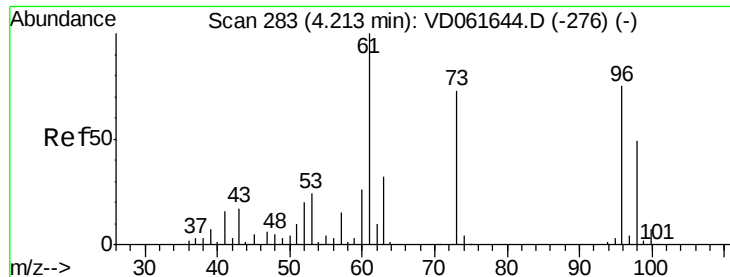


#20

Methylene Chloride
 Concen: 20.996 ug/l
 RT: 3.81 min Scan# 243
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion: 84 Resp: 186971
 Ion Ratio Lower Upper
 84 100
 49 119.4 93.0 139.4
 51 38.0 30.4 45.6
 86 63.9 51.0 76.4





#21

trans-1,2-Dichloroethene

Concen: 22.882 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

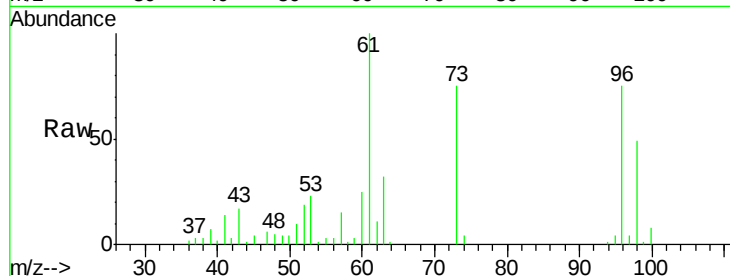
Tot Ion: 96 Resp: 180820

Ion Ratio Lower Upper

96 100

61 134.2 106.8 160.2

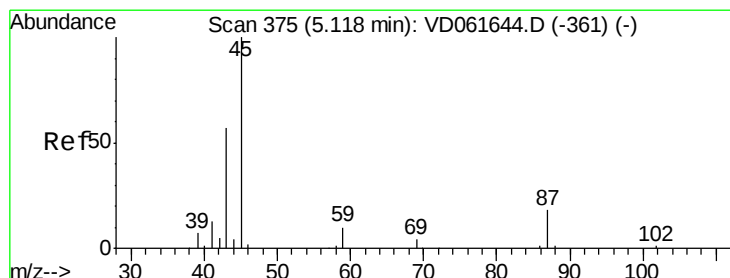
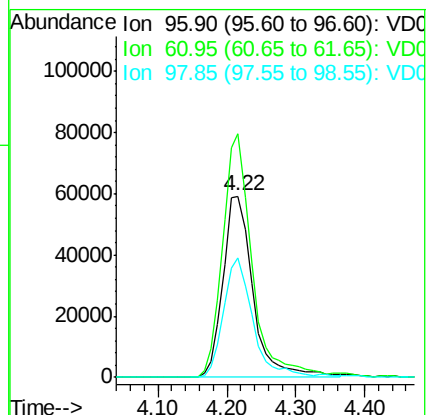
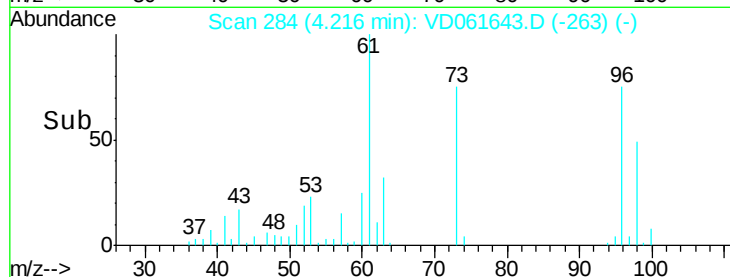
98 66.1 52.2 78.2



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 21.522 ug/l

RT: 5.11 min Scan# 375

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Tgt Ion: 45 Resp: 449300

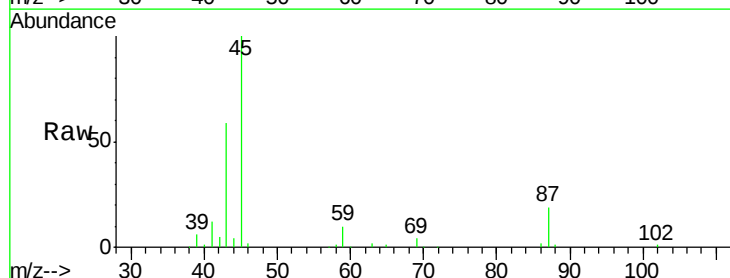
Ion Ratio Lower Upper

45 100

43 58.7 46.6 70.0

87 19.1 15.6 23.4

59 10.1 8.6 13.0

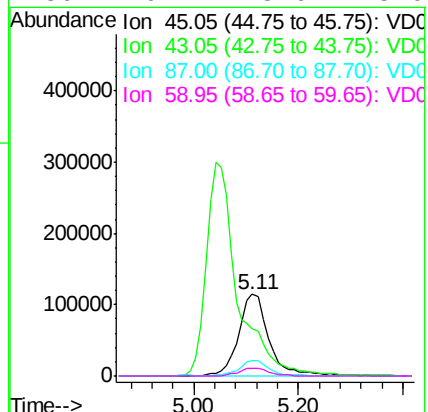
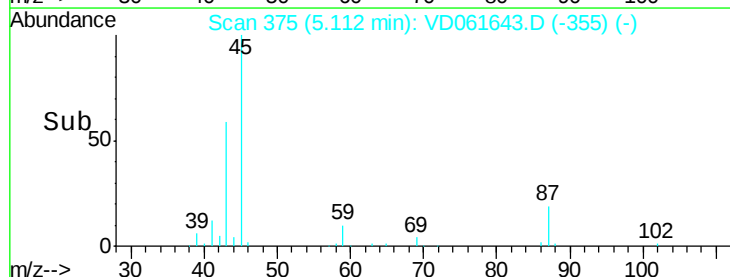


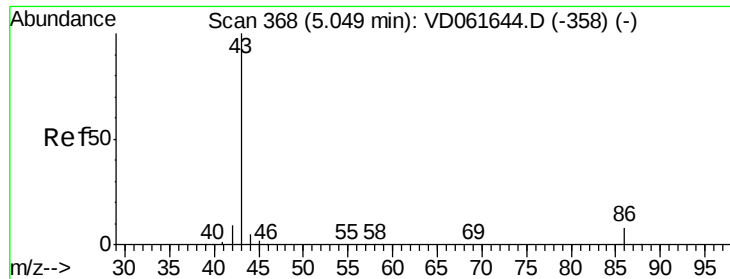
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 106.172 ug/l

RT: 5.04 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

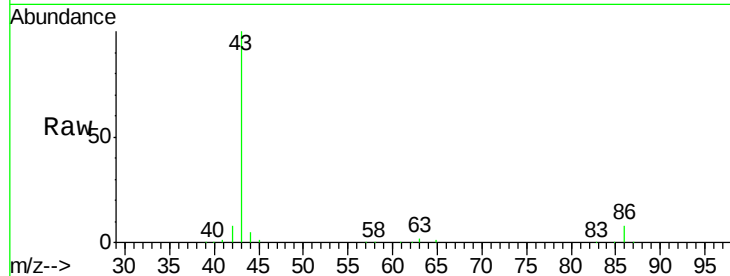
VSTDIC020

Tot Ion: 43 Resp: 1225178

Ion Ratio Lower Upper

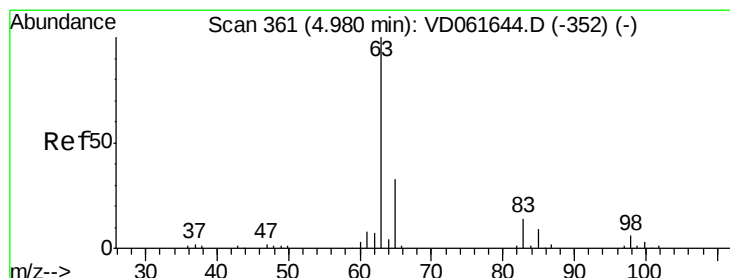
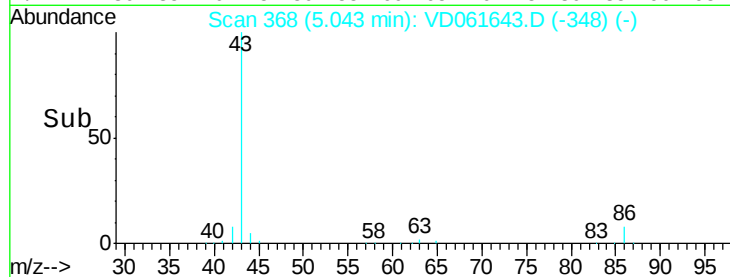
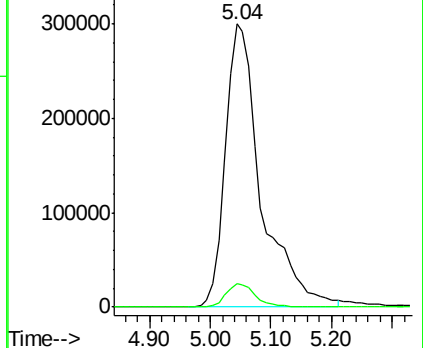
43 100

86 8.1 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.403 ug/l

RT: 4.98 min Scan# 362

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

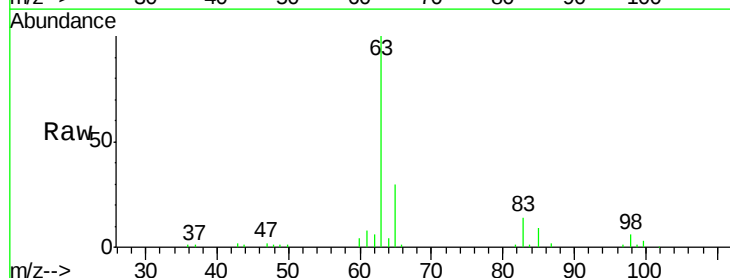
Tgt Ion: 63 Resp: 275363

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.6

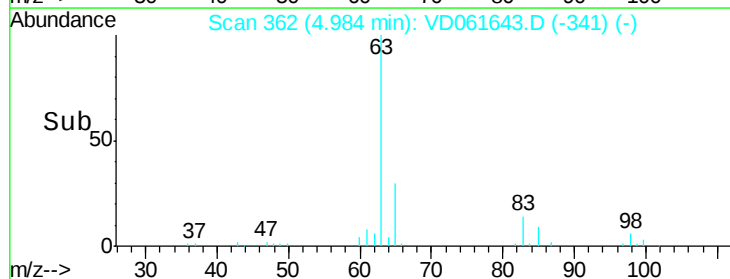
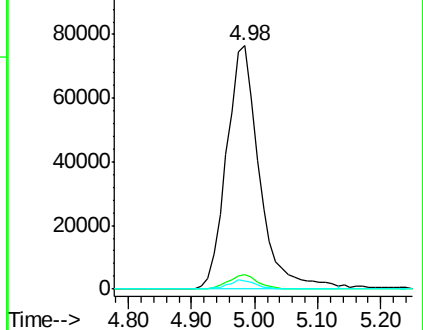
100 3.4 1.7 5.1

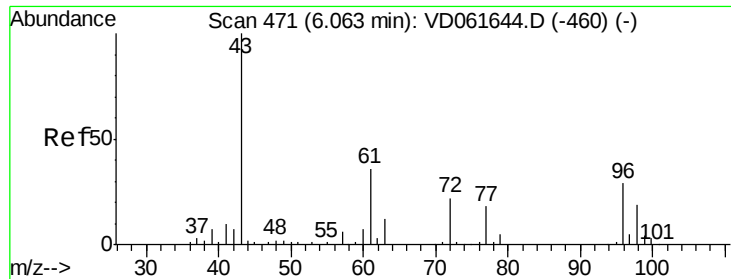


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 104.086 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

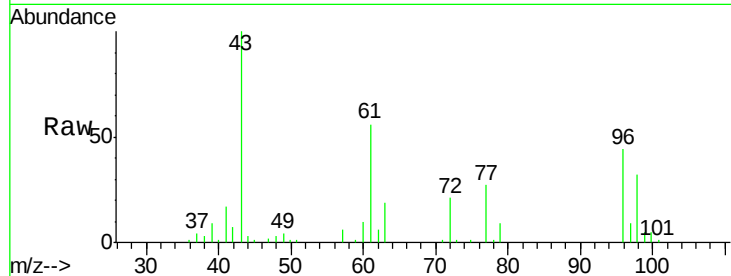
VSTDIC020

Tot Ion: 43 Resp: 189606

Ion Ratio Lower Upper

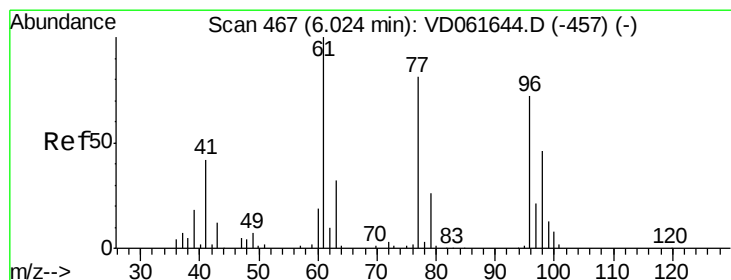
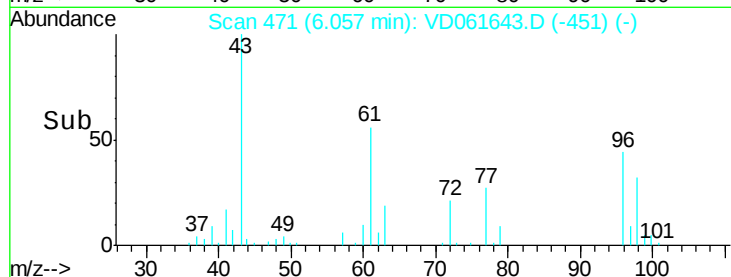
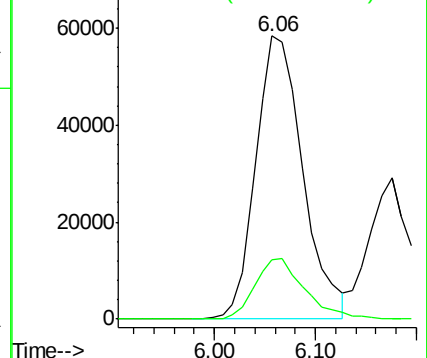
43 100

72 21.2 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.039 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.01 min

Lab File: VD061643.D

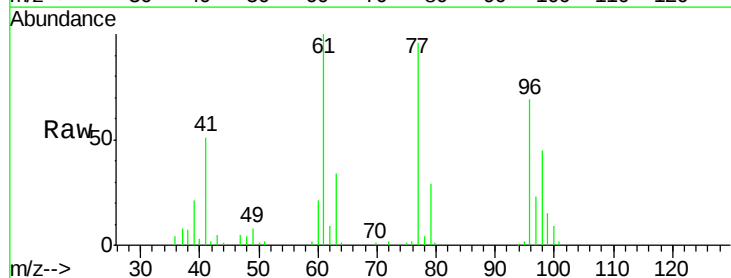
Acq: 6 Apr 2019 15:12

Tgt Ion: 77 Resp: 230369

Ion Ratio Lower Upper

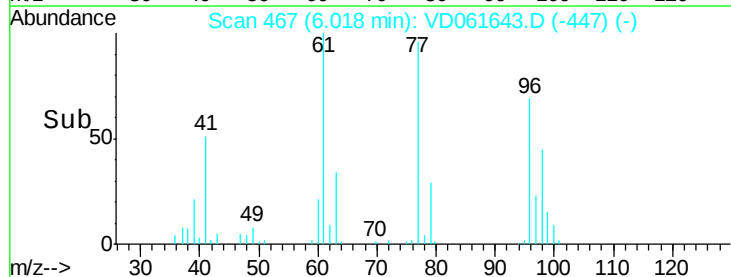
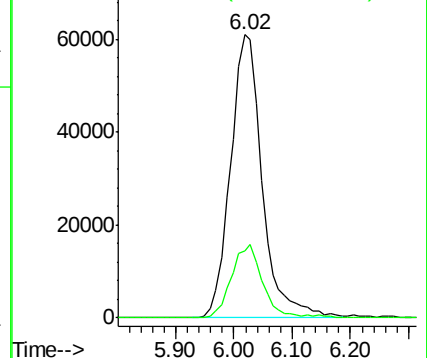
77 100

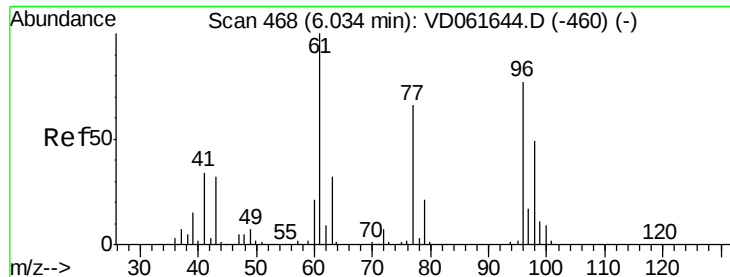
97 23.7 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



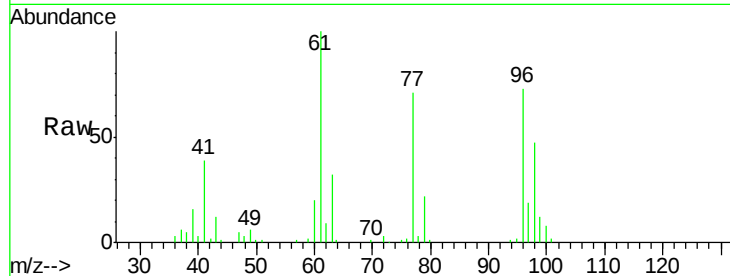


#27

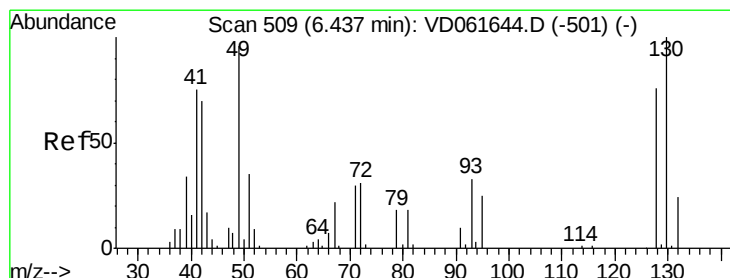
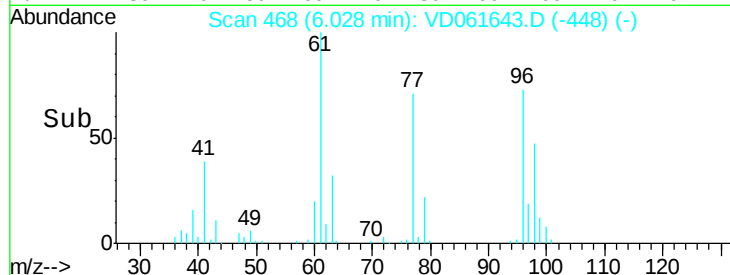
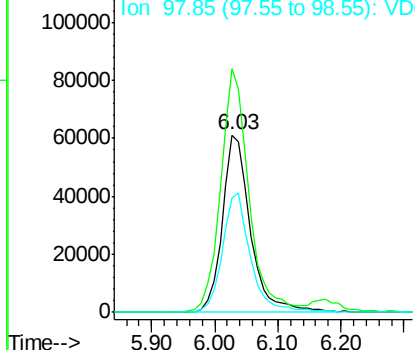
cis-1,2-Dichloroethene
Concen: 22.422 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 96 Resp: 188831
Ion Ratio Lower Upper
96 100
61 137.4 0.0 259.8
98 64.8 0.0 127.6



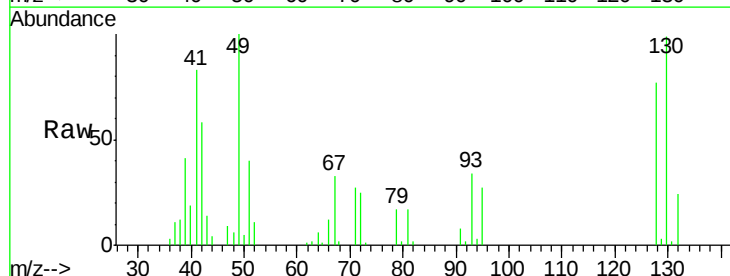
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



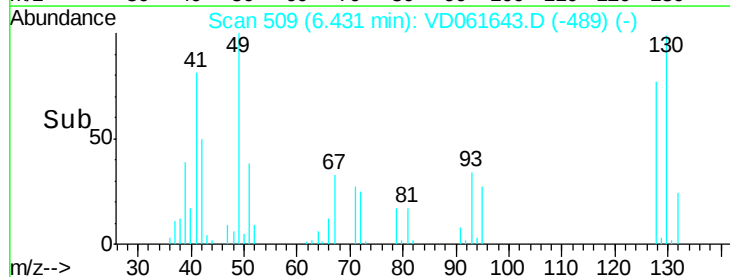
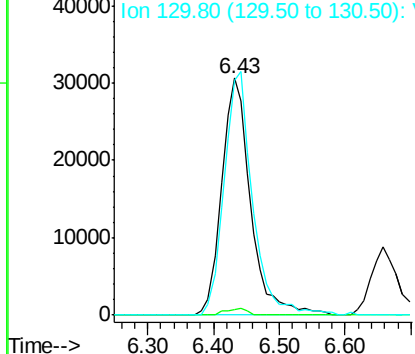
#28

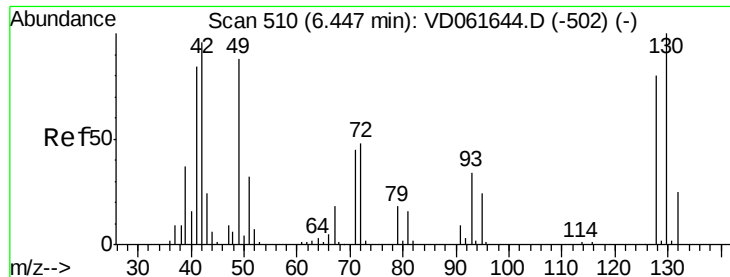
Bromochloromethane
Concen: 20.396 ug/l
RT: 6.43 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 49 Resp: 93711
Ion Ratio Lower Upper
49 100
129 2.6 0.0 4.0
130 98.9 83.3 124.9



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC

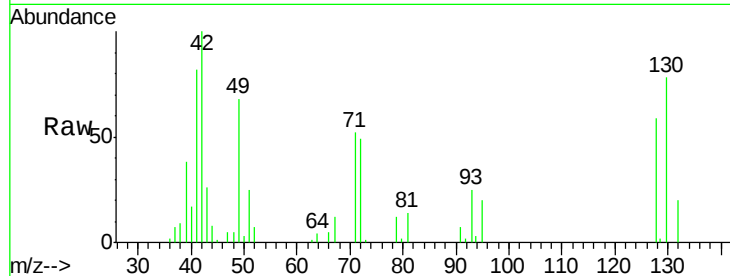




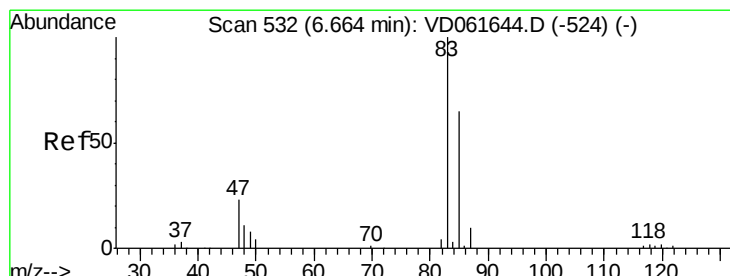
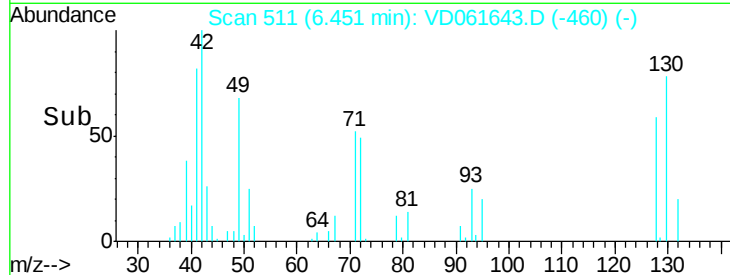
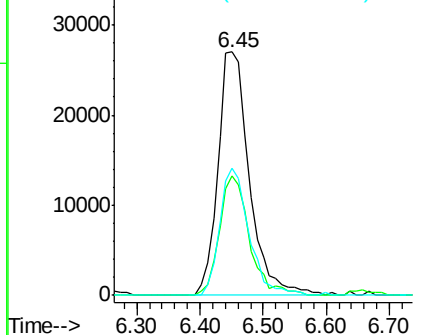
#29
Tetrahydrofuran
Concen: 107.945 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 42 Resp: 94171
Ion Ratio Lower Upper
42 100
72 46.5 37.0 55.6
71 48.4 36.5 54.7

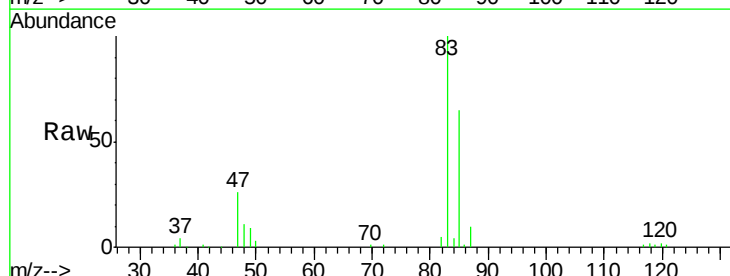


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

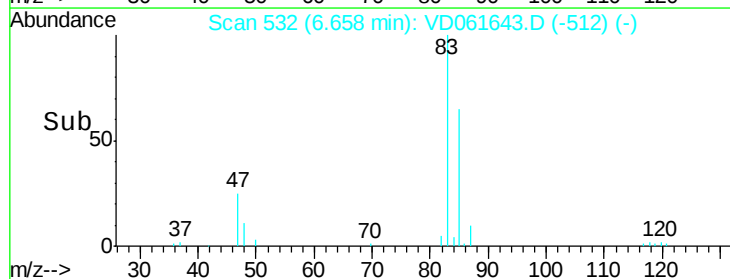
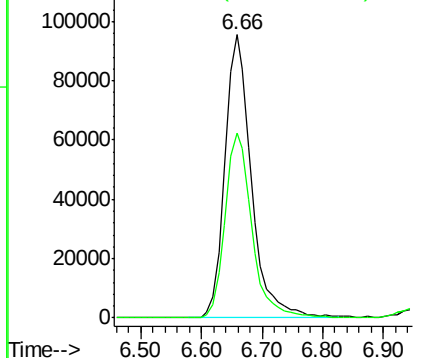


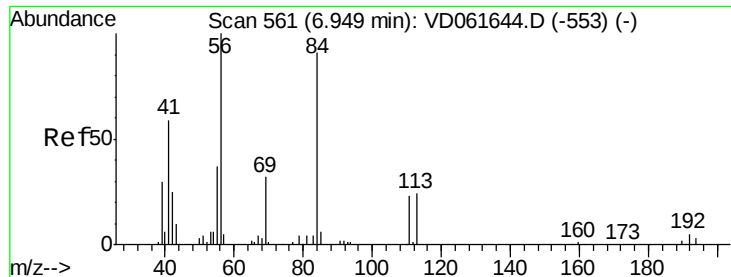
#30
Chloroform
Concen: 21.640 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 83 Resp: 289750
Ion Ratio Lower Upper
83 100
85 65.5 51.9 77.9



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC

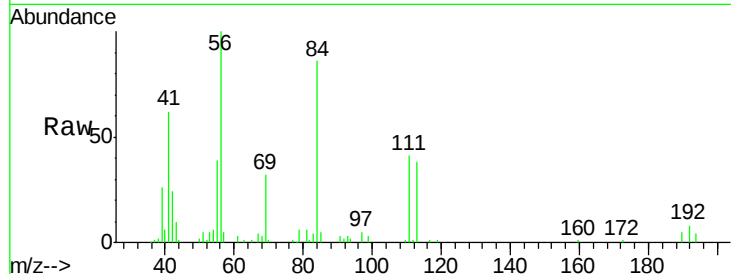




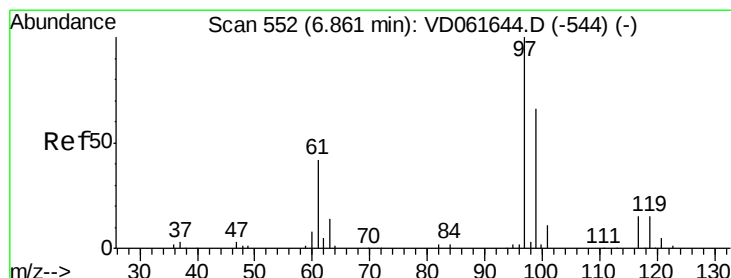
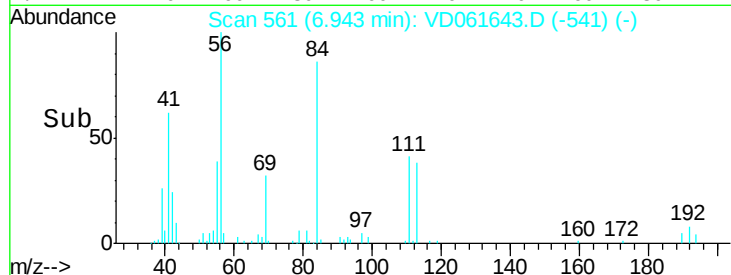
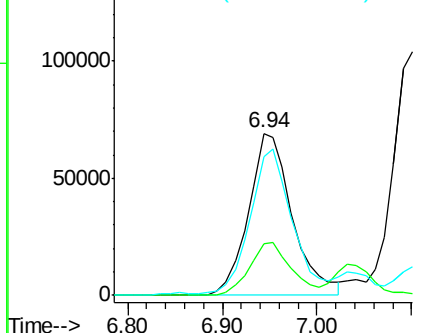
#31
Cyclohexane
Concen: 22.438 ug/l
RT: 6.94 min Scan# 561
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 56 Resp: 221356
Ion Ratio Lower Upper
56 100
69 31.8 25.8 38.6
84 85.8 74.2 111.2

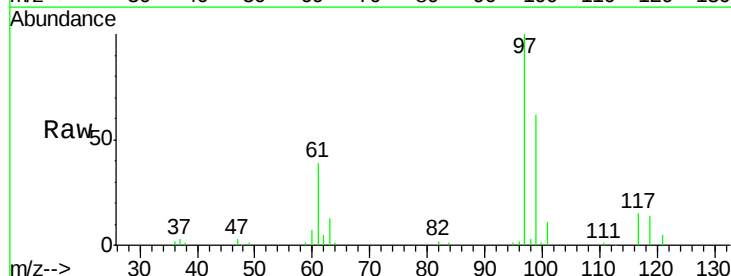


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

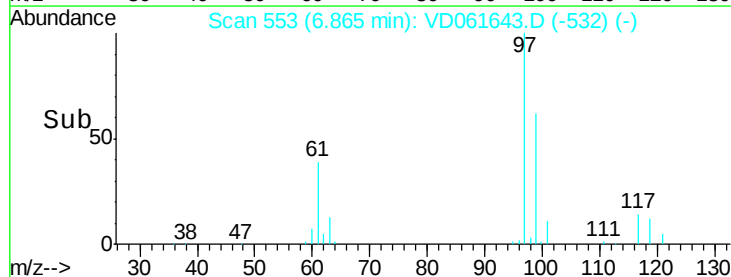
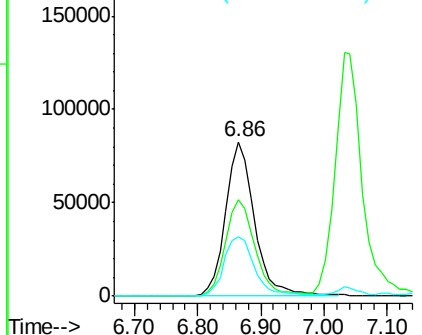


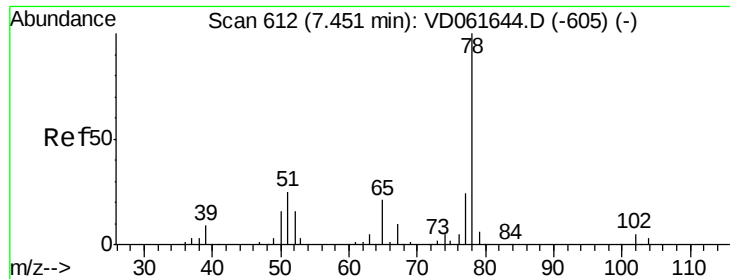
#32
1,1,1-Trichloroethane
Concen: 22.281 ug/l
RT: 6.86 min Scan# 553
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 97 Resp: 262036
Ion Ratio Lower Upper
97 100
99 62.0 52.5 78.7
61 38.7 33.4 50.0



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: 22.281 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

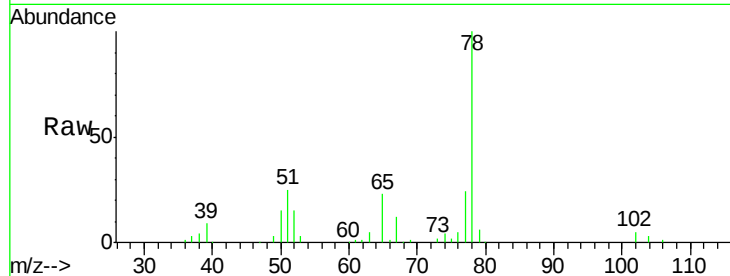
VSTDIC020

Tot Ion: 65 Resp: 115276

Ion Ratio Lower Upper

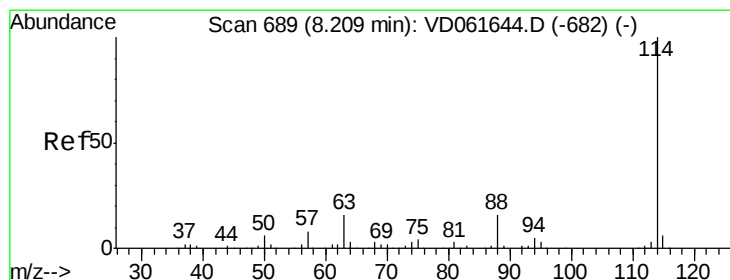
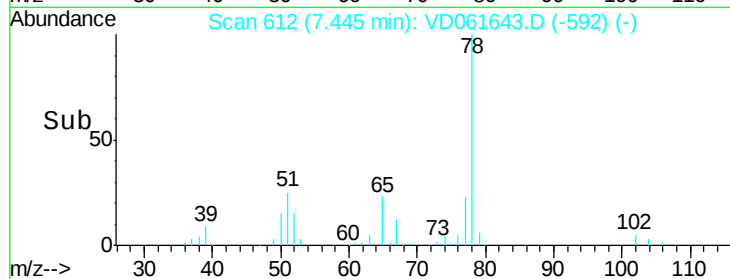
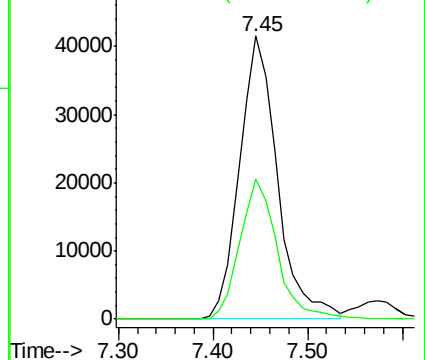
65 100

67 49.5 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

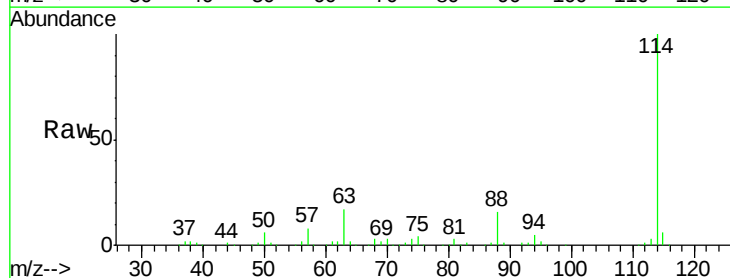
Tgt Ion: 114 Resp: 1228723

Ion Ratio Lower Upper

114 100

63 16.6 0.0 31.2

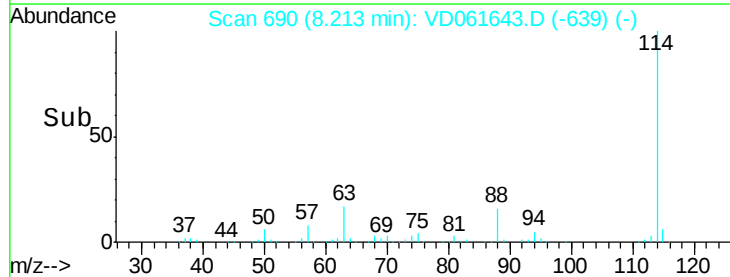
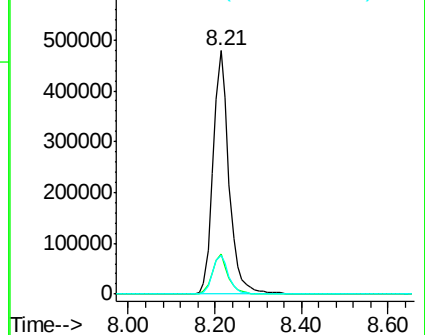
88 16.1 0.0 31.8

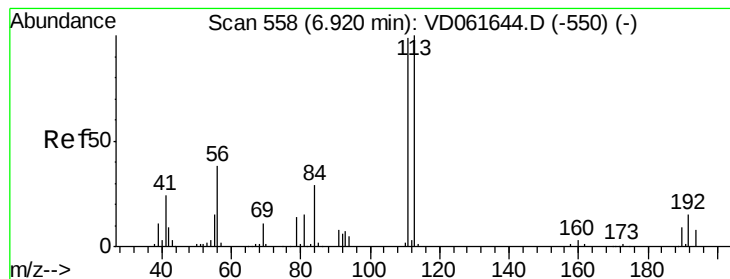


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.91 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

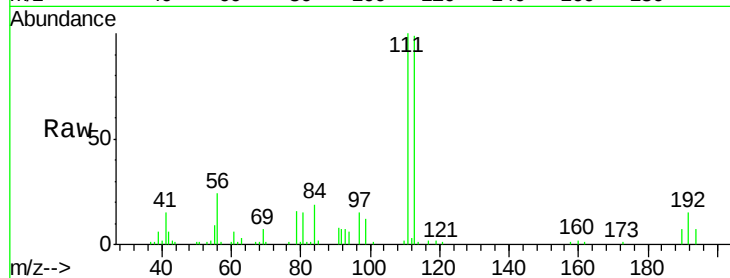
Tot Ion:113 Resp: 184876

Ion Ratio Lower Upper

113 100

111 100.9 79.3 118.9

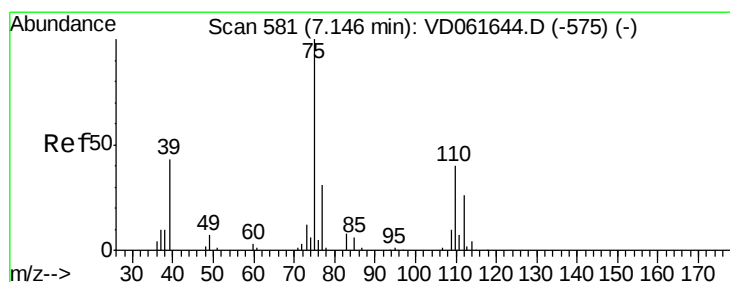
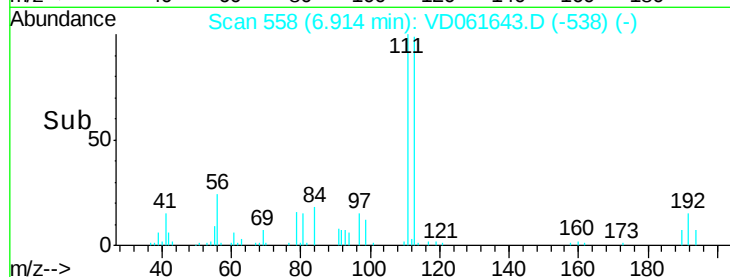
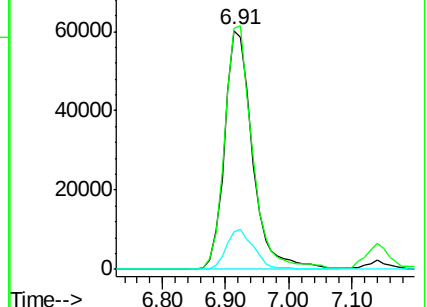
192 15.6 12.3 18.5



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: 21.201 ug/l

RT: 7.14 min Scan# 581

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

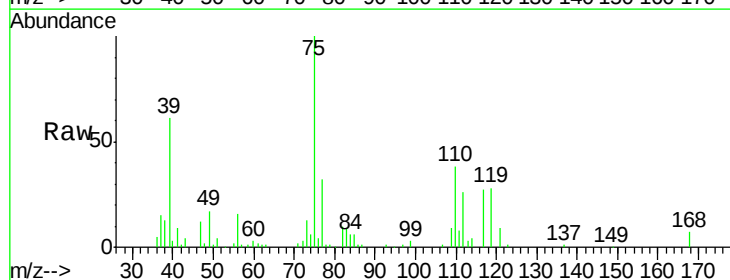
Tgt Ion: 75 Resp: 232911

Ion Ratio Lower Upper

75 100

110 37.9 19.7 59.0

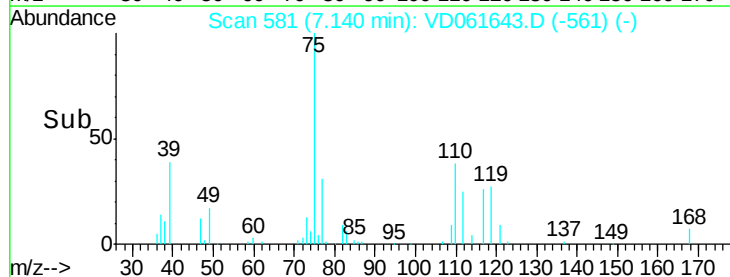
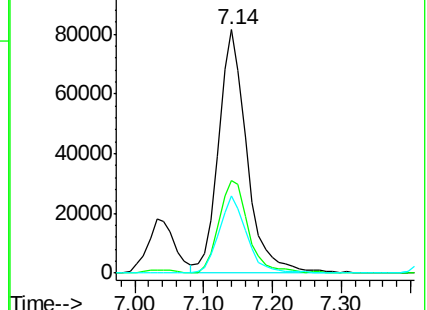
77 31.7 24.8 37.2

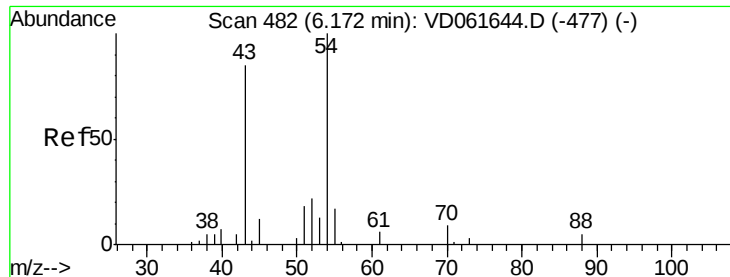


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

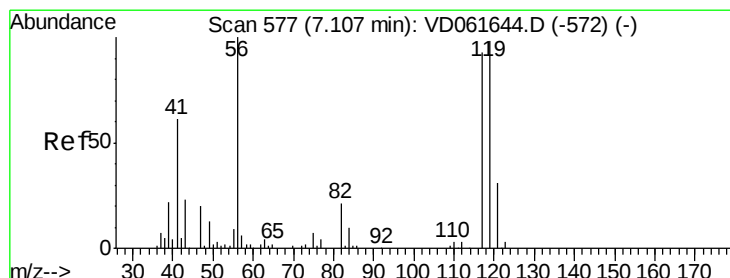
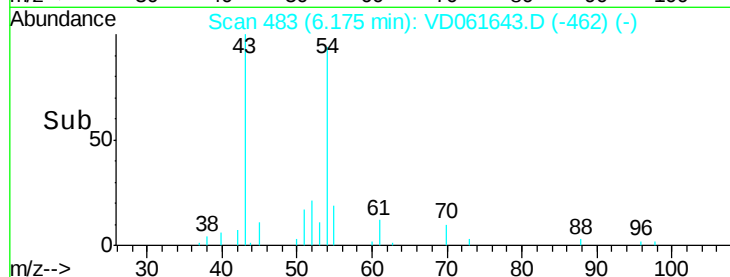
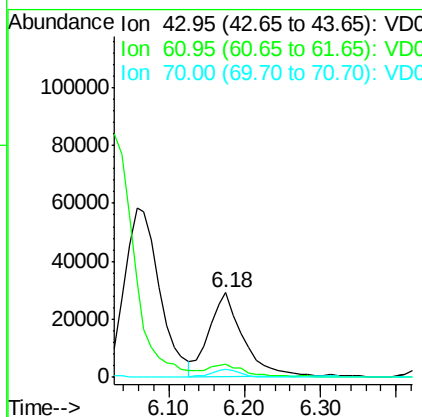
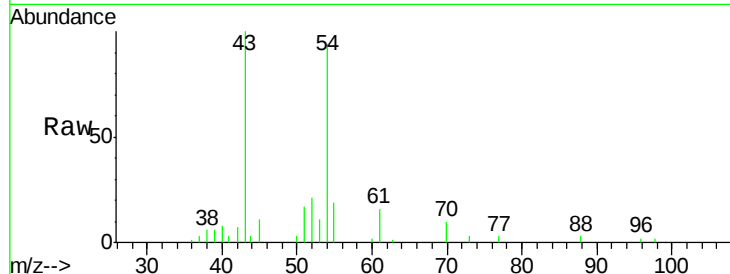




#37
Ethyl Acetate
Concen: 19.752 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

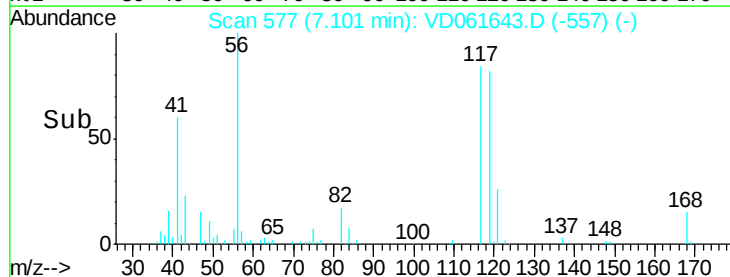
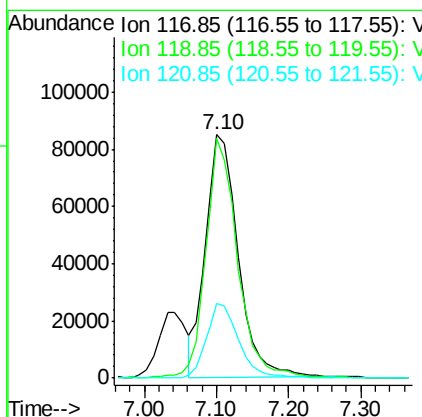
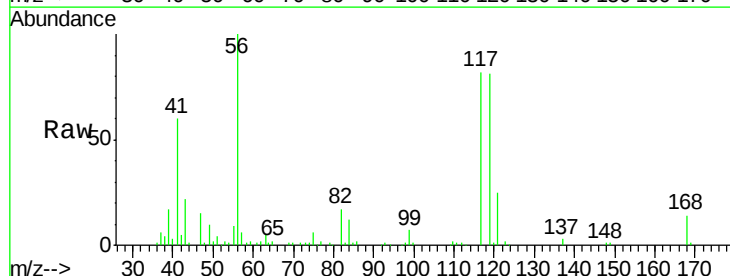
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

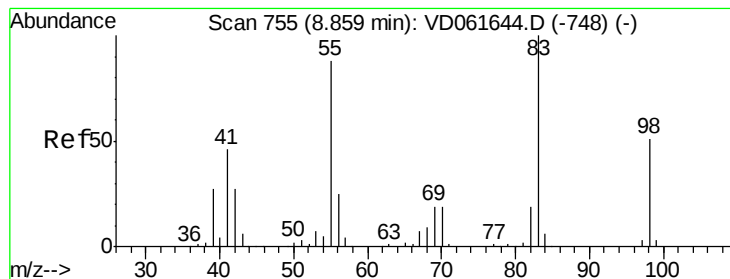
Tot Ion: 43 Resp: 90081
Ion Ratio Lower Upper
43 100
61 16.0 11.9 17.9
70 9.8 6.9 10.3



#38
Carbon Tetrachloride
Concen: 20.845 ug/l
RT: 7.10 min Scan# 577
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 117 Resp: 264519
Ion Ratio Lower Upper
117 100
119 98.4 77.9 116.9
121 30.7 24.7 37.1





#39

Methvlcvclohexane

Concen: 19.575 ug/l

RT: 8.85 min Scan# 755

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

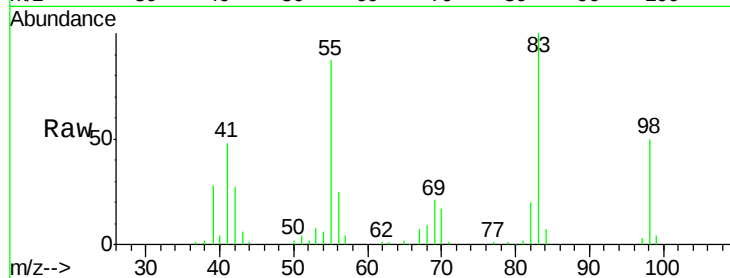
Tot Ion: 83 Resp: 224184

Ion Ratio Lower Upper

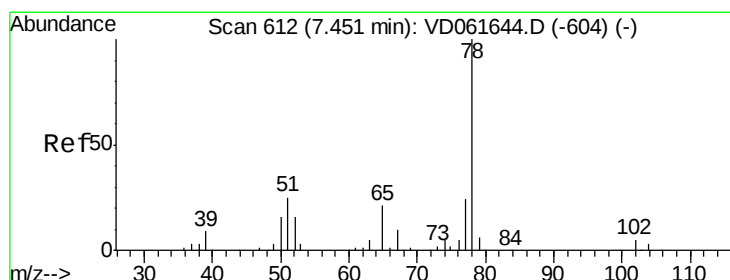
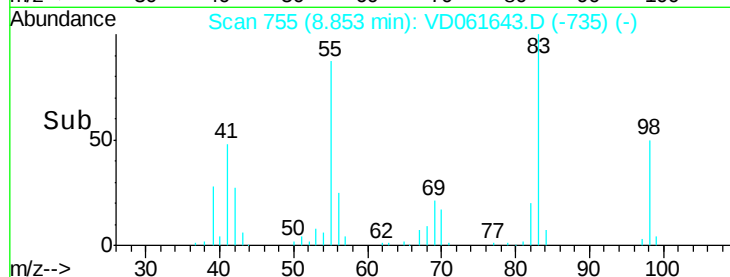
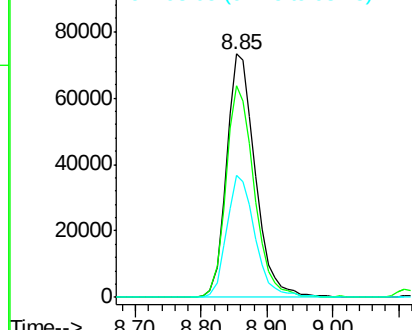
83 100

55 87.0 70.3 105.5

98 50.0 41.0 61.6



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 19.926 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061643.D

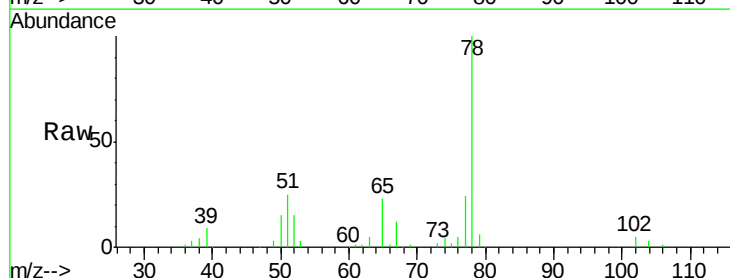
Acq: 6 Apr 2019 15:12

Tgt Ion: 78 Resp: 529644

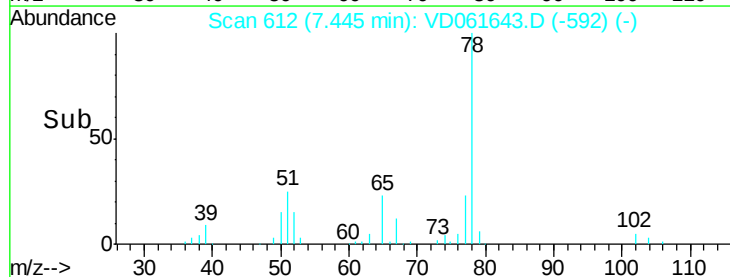
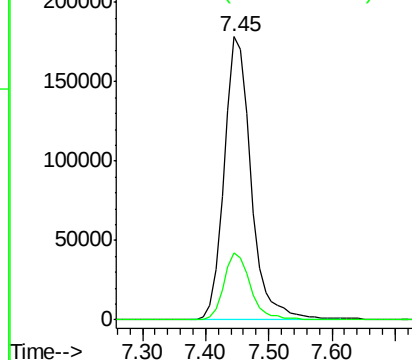
Ion Ratio Lower Upper

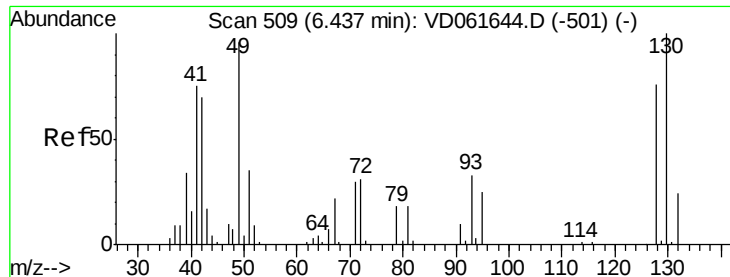
78 100

77 23.6 19.5 29.3



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 20.716 ug/l

RT: 6.44 min Scan# 510

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 106477

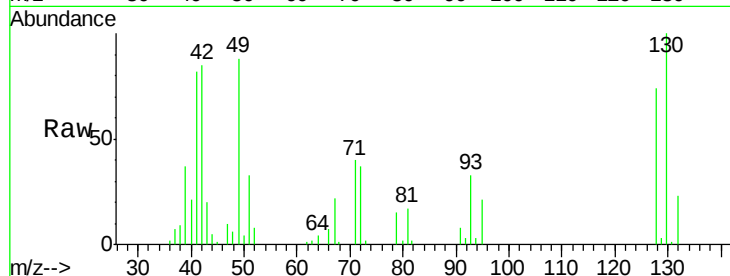
Ion Ratio Lower Upper

41 100

39 45.0 36.2 54.2

67 27.0 23.2 34.8

52 9.9 10.0 15.0#

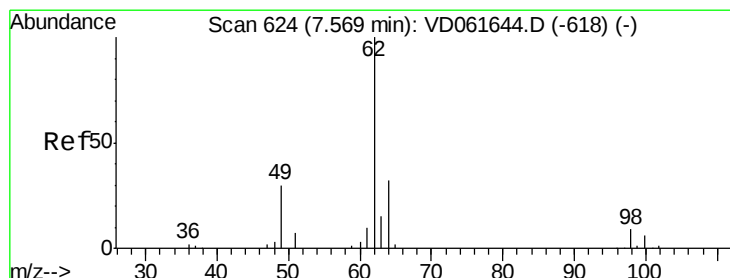
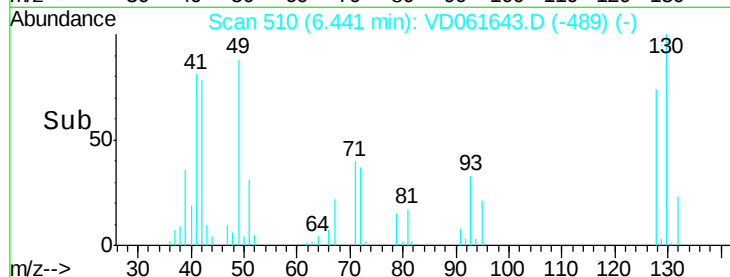
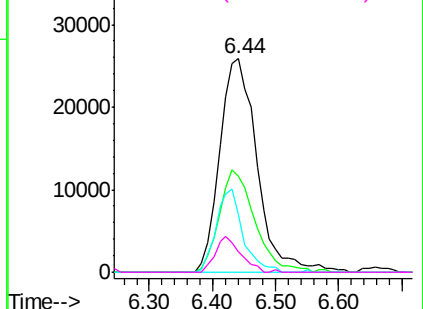


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 20.201 ug/l

RT: 7.57 min Scan# 625

Delta R.T. 0.00 min

Lab File: VD061643.D

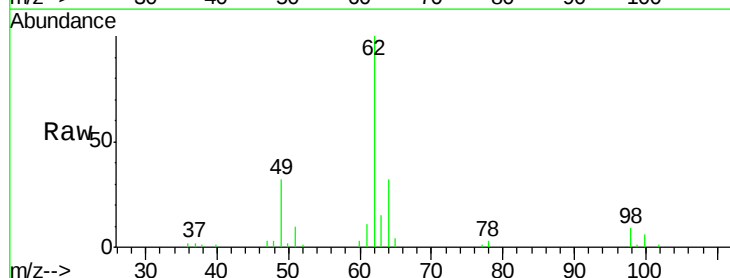
Acq: 6 Apr 2019 15:12

Tgt Ion: 62 Resp: 169713

Ion Ratio Lower Upper

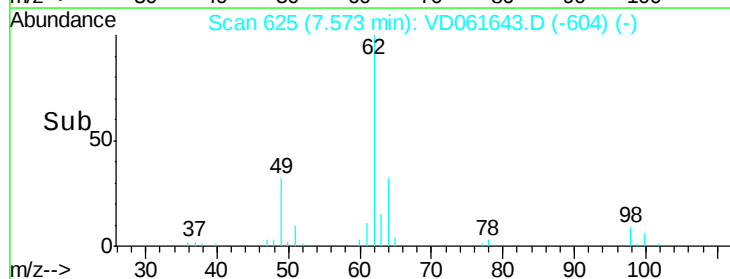
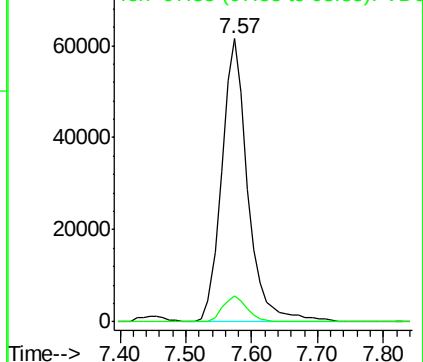
62 100

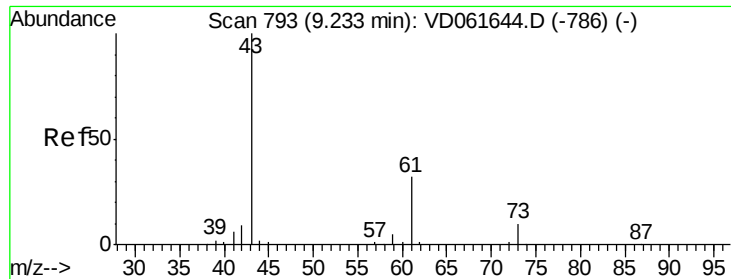
98 9.4 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



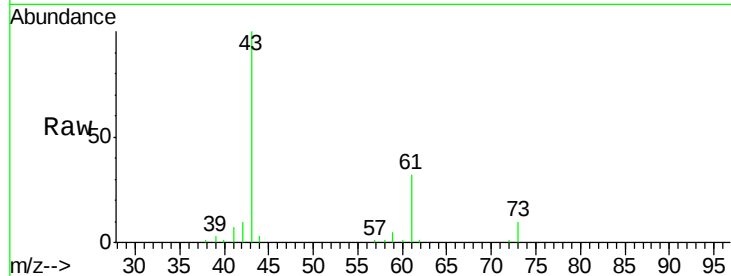


#43

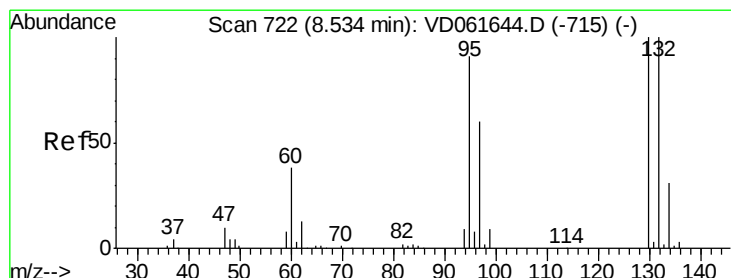
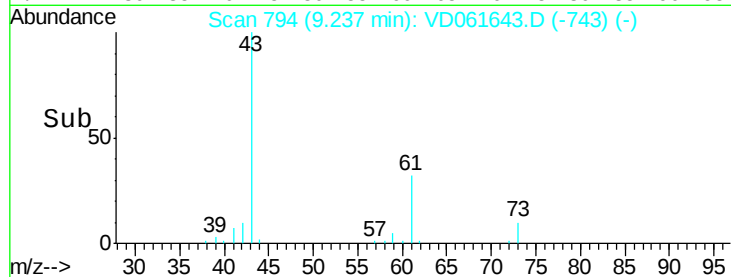
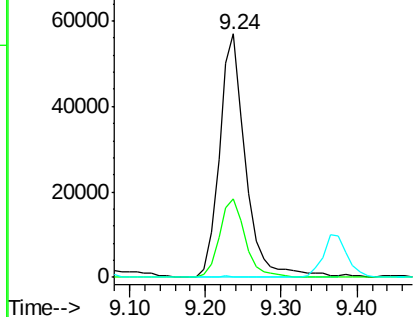
Isopropyl Acetate
 Concen: 20.803 ug/l
 RT: 9.24 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 136340
 Ion Ratio Lower Upper
 43 100
 61 32.4 25.9 38.9
 87 0.0 0.2 0.4#



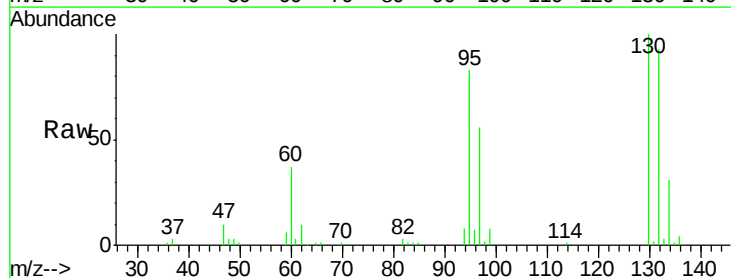
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



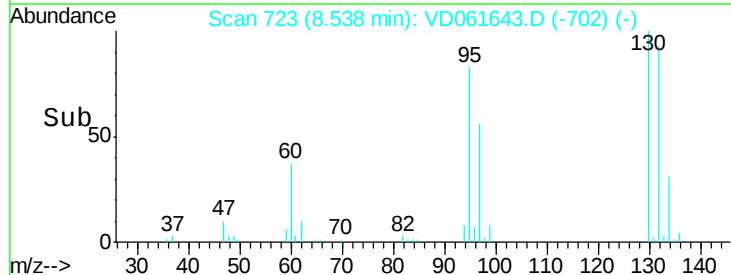
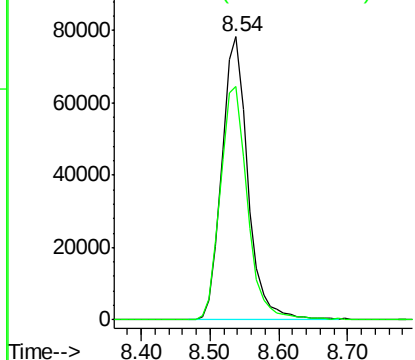
#44

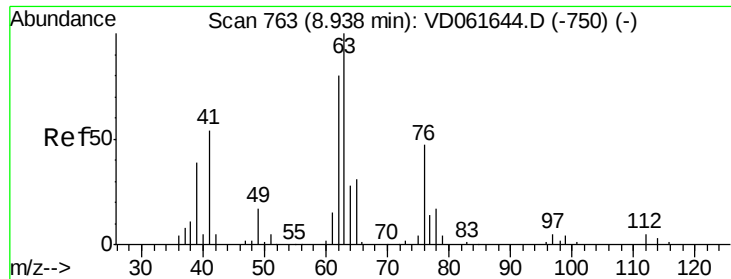
Trichloroethene
 Concen: 20.247 ug/l
 RT: 8.54 min Scan# 723
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion:130 Resp: 205021
 Ion Ratio Lower Upper
 130 100
 95 82.7 0.0 181.8



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 22.012 ug/l

RT: 8.93 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

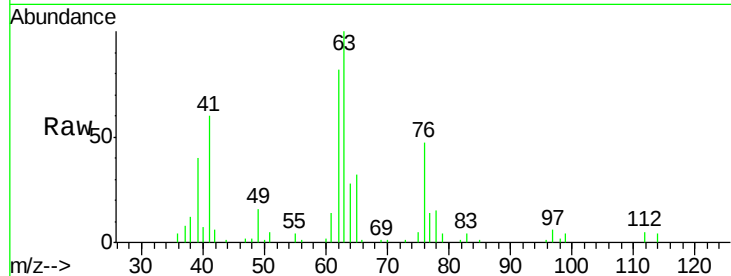
VSTDIC020

Tot Ion: 63 Resp: 143324

Ion Ratio Lower Upper

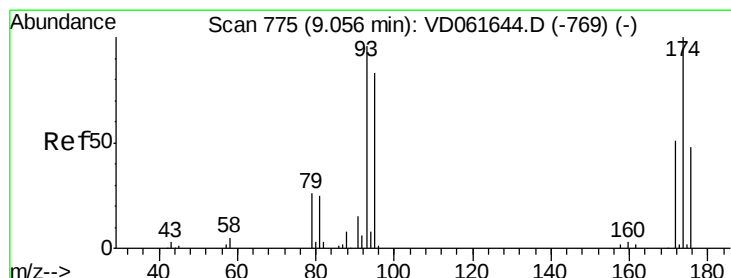
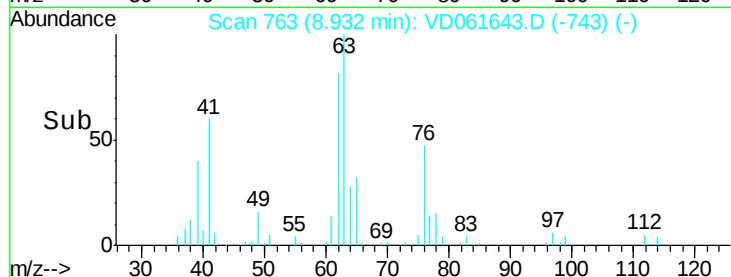
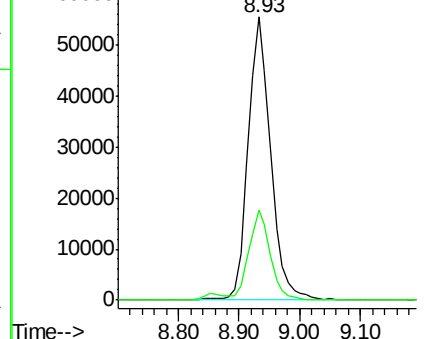
63 100

65 31.7 24.5 36.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.756 ug/l

RT: 9.06 min Scan# 776

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

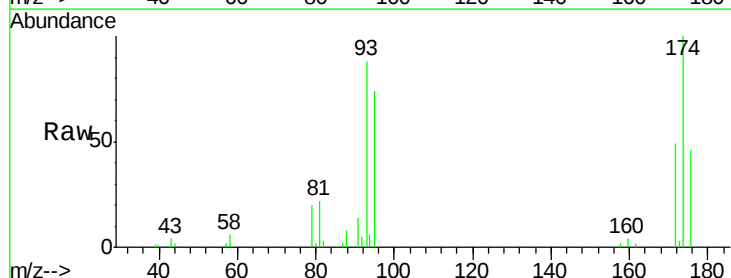
Tgt Ion: 93 Resp: 95793

Ion Ratio Lower Upper

93 100

95 83.4 68.6 103.0

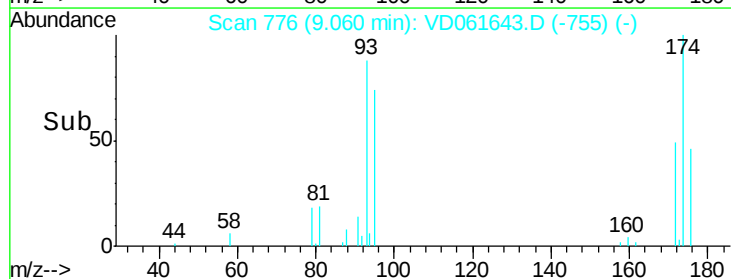
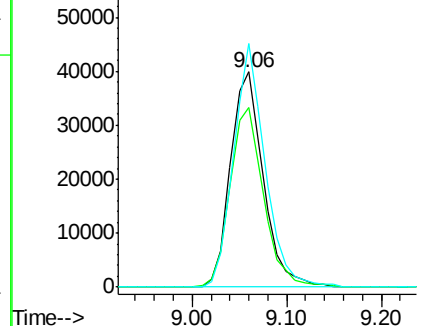
174 113.2 83.0 124.4



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: 20.896 ug/l

RT: 9.37 min Scan# 808

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

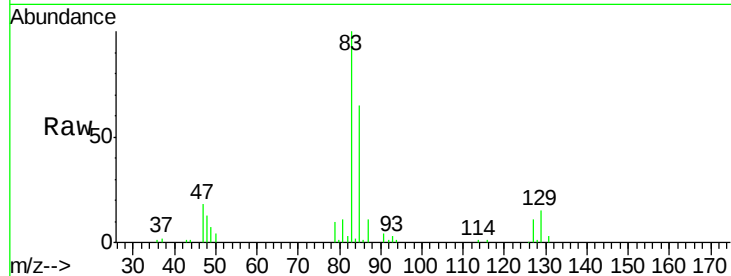
Tot Ion: 83 Resp: 215576

Ion Ratio Lower Upper

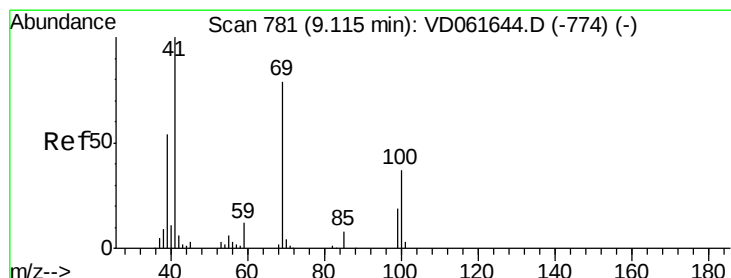
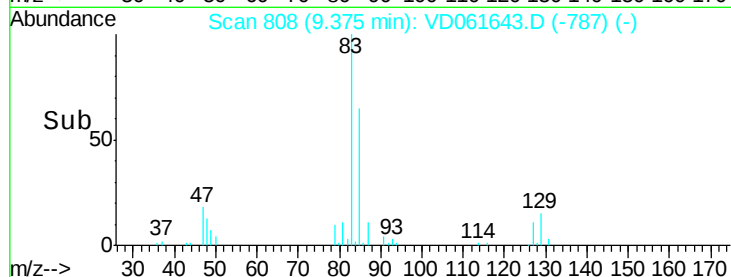
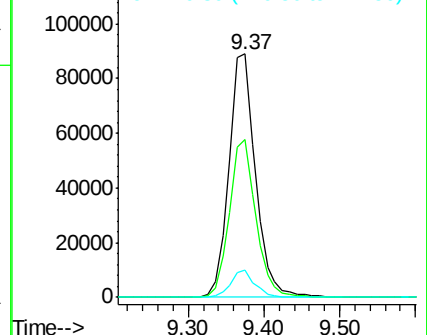
83 100

85 64.8 51.8 77.6

127 11.0 9.0 13.6



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: 20.924 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

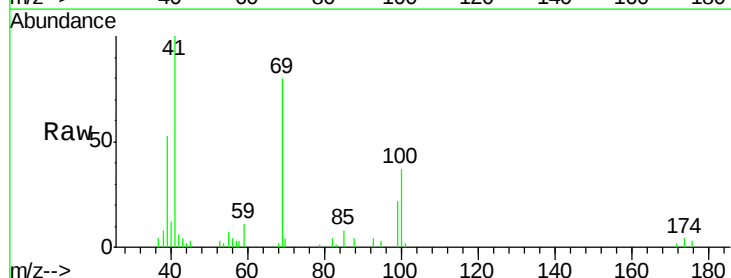
Tgt Ion: 41 Resp: 75825

Ion Ratio Lower Upper

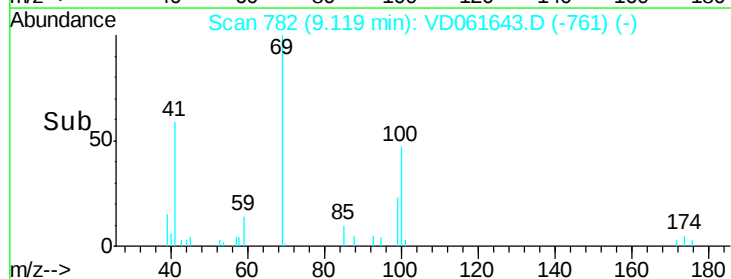
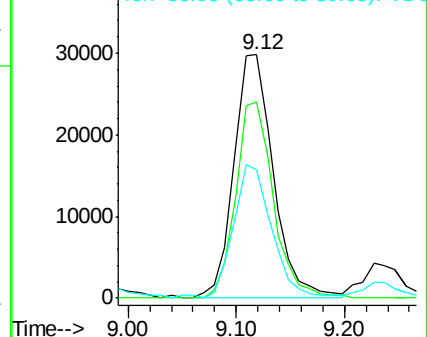
41 100

69 80.5 63.1 94.7

39 52.9 43.8 65.8



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

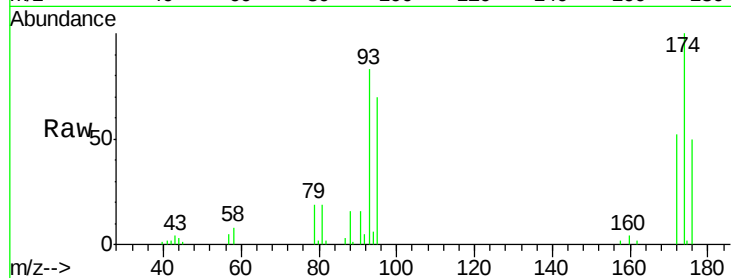




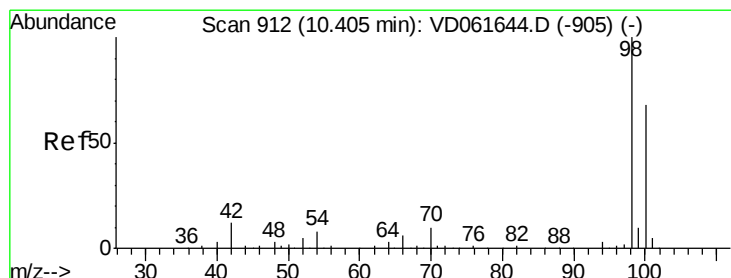
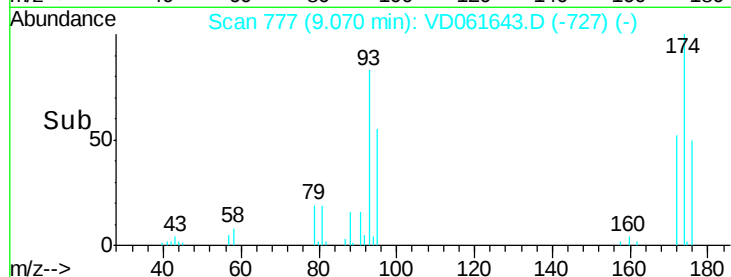
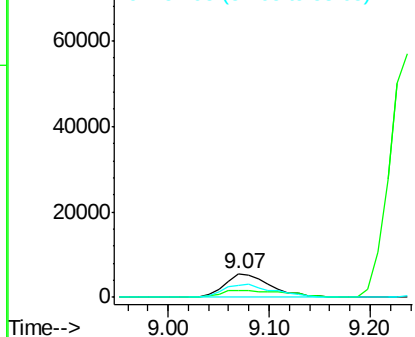
#49
1,4-Dioxane
Concen: 435.027 ug/l
RT: 9.07 min Scan# 777
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 88 Resp: 17449
Ion Ratio Lower Upper
88 100
43 27.0 21.8 32.8
58 51.4 40.2 60.2

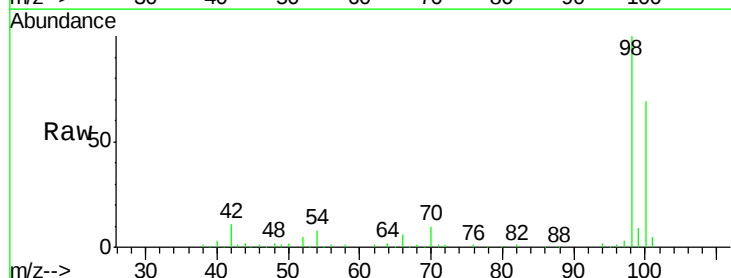


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

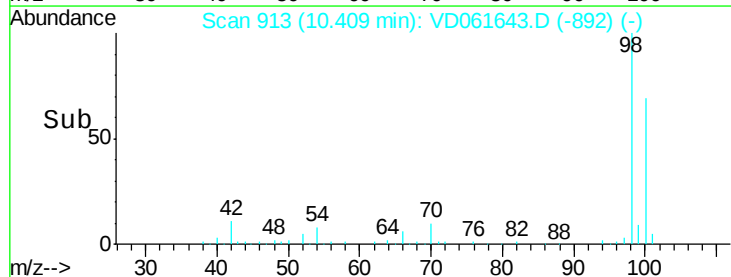
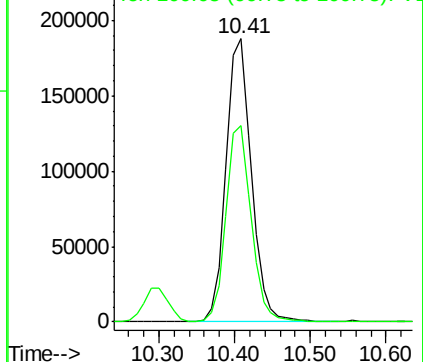


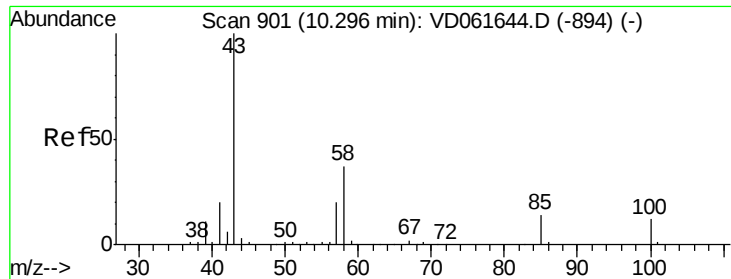
#50
Toluene-d8
Concen: 435.027 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 98 Resp: 435206
Ion Ratio Lower Upper
98 100
100 69.3 55.4 83.0



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: 106.509 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

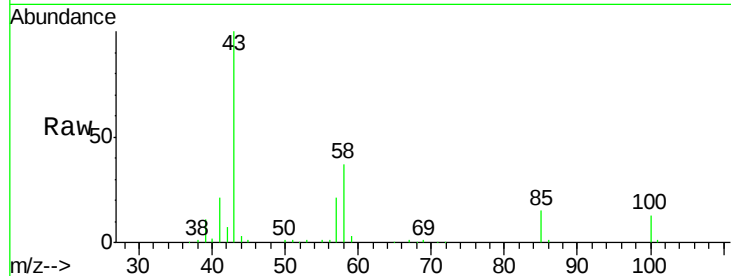
VSTDIC020

Tot Ion: 43 Resp: 411020

Ion Ratio Lower Upper

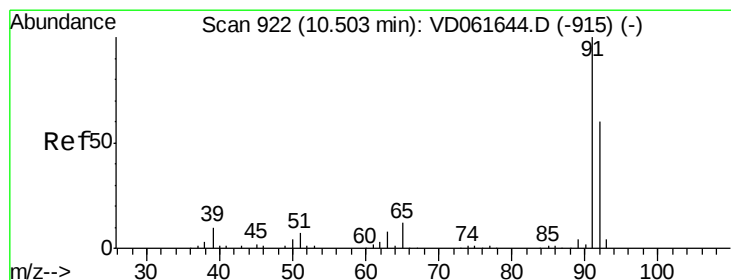
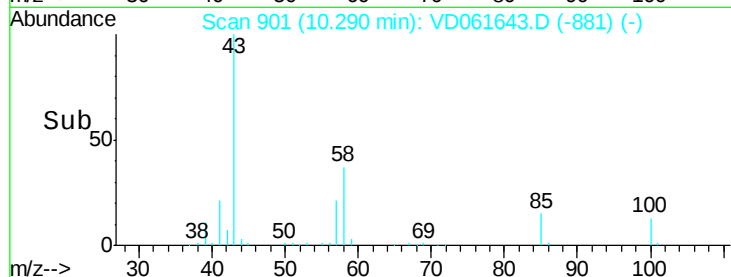
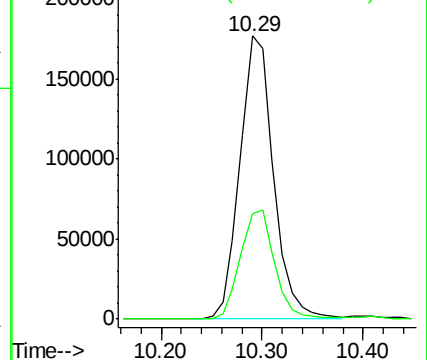
43 100

58 37.2 29.8 44.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.277 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD061643.D

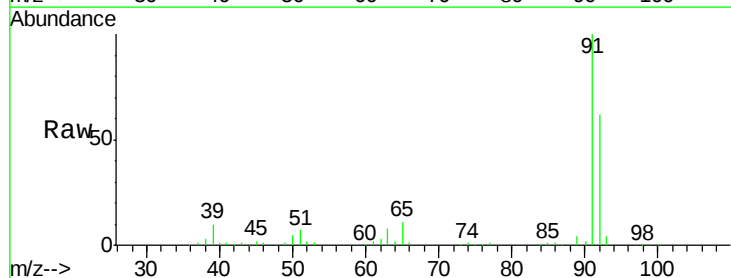
Acq: 6 Apr 2019 15:12

Tgt Ion: 92 Resp: 350337

Ion Ratio Lower Upper

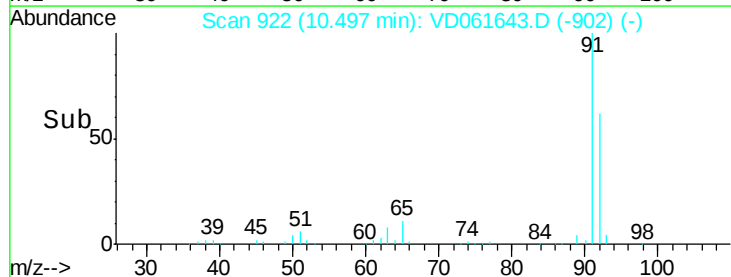
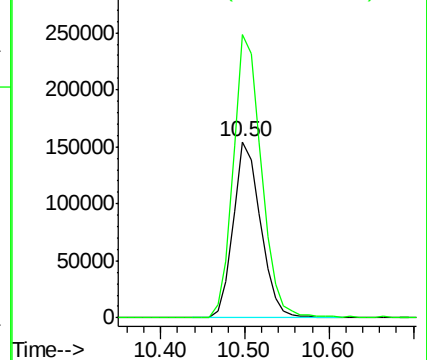
92 100

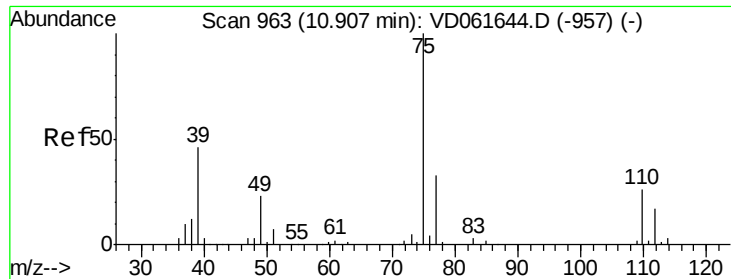
91 160.6 133.0 199.4



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

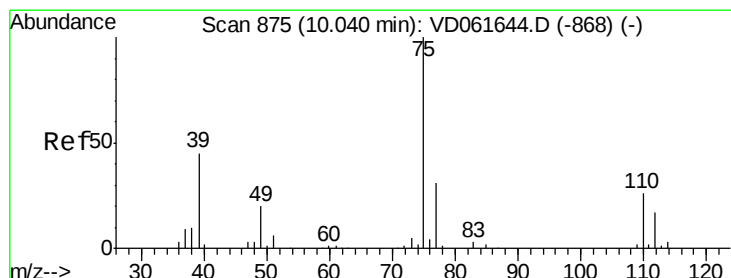
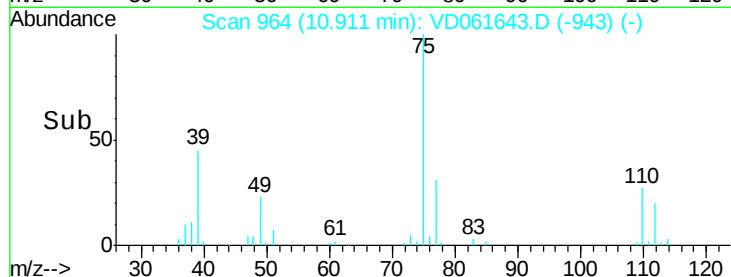
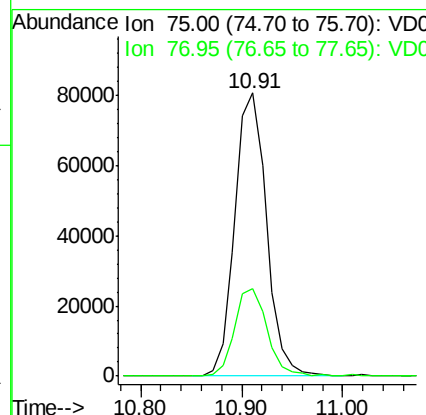
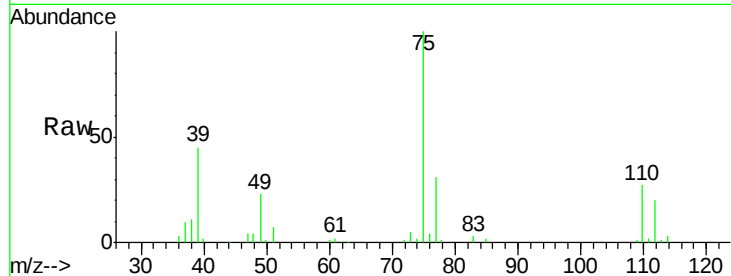




#53
t-1,3-Dichloropropene
Concen: 19.301 ug/l
RT: 10.91 min Scan# 964
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

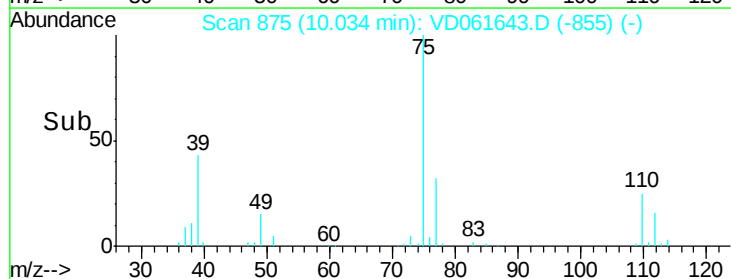
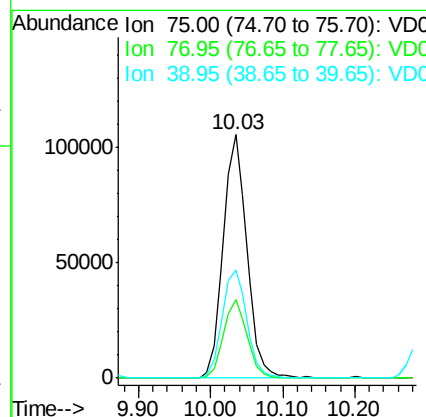
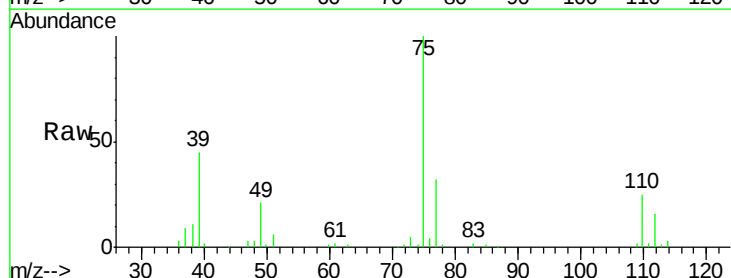
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

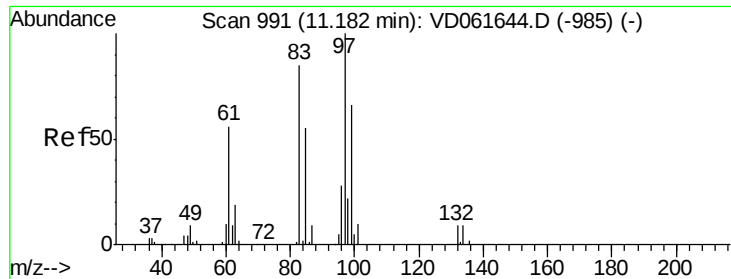
Tot Ion: 75 Resp: 175849
Ion Ratio Lower Upper
75 100
77 31.1 26.2 39.2



#54
cis-1,3-Dichloropropene
Concen: 21.274 ug/l
RT: 10.03 min Scan# 875
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 75 Resp: 238772
Ion Ratio Lower Upper
75 100
77 32.2 24.6 37.0
39 44.6 36.2 54.2





#55

1,1,2-Trichloroethane

Concen: 21.829 ug/l

RT: 11.19 min Scan# 992

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 118507

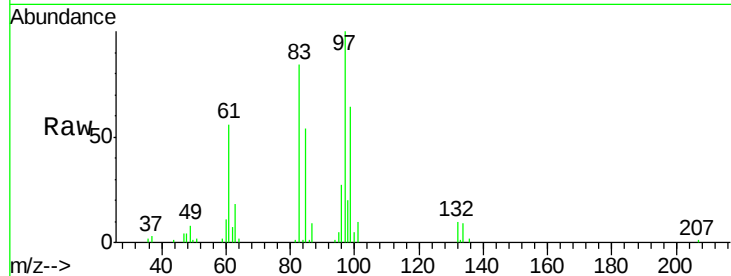
Ion Ratio Lower Upper

97 100

83 83.5 67.8 101.6

85 54.3 43.8 65.8

99 63.7 52.8 79.2

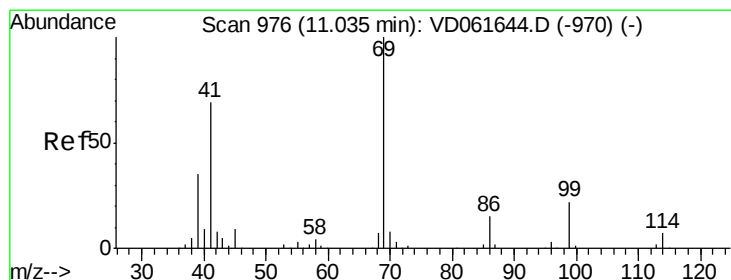
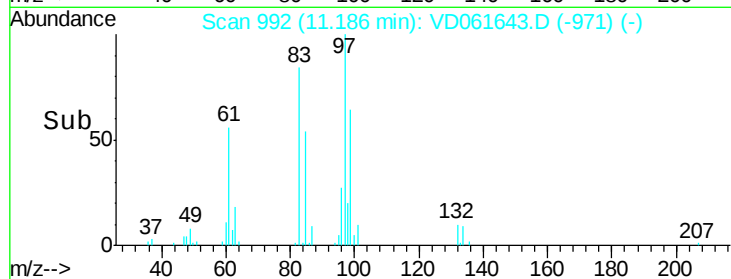
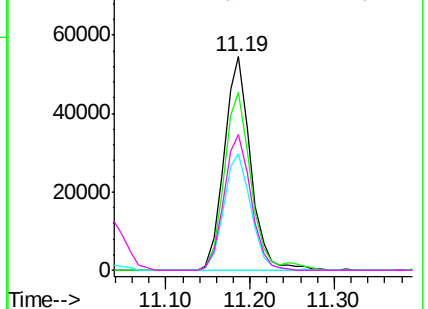


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 19.669 ug/l

RT: 11.04 min Scan# 977

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

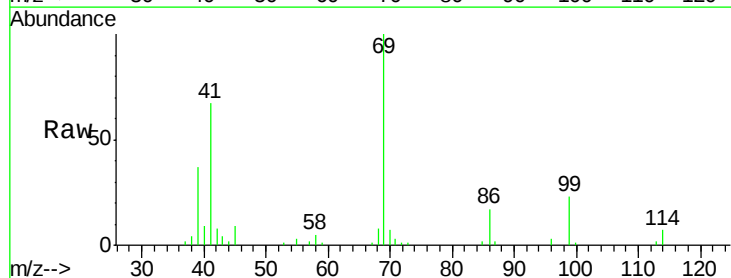
Tgt Ion: 69 Resp: 116022

Ion Ratio Lower Upper

69 100

41 67.0 55.2 82.8

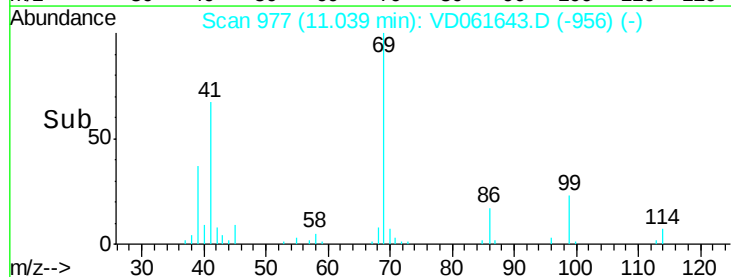
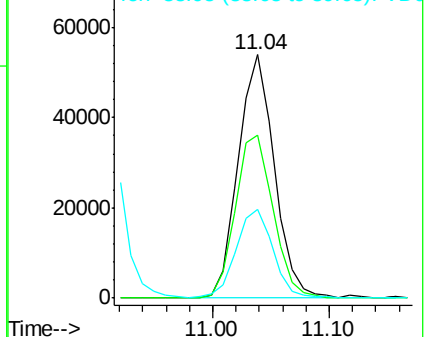
39 36.6 28.6 43.0

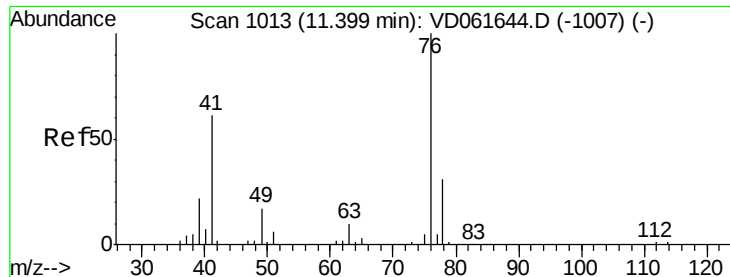


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

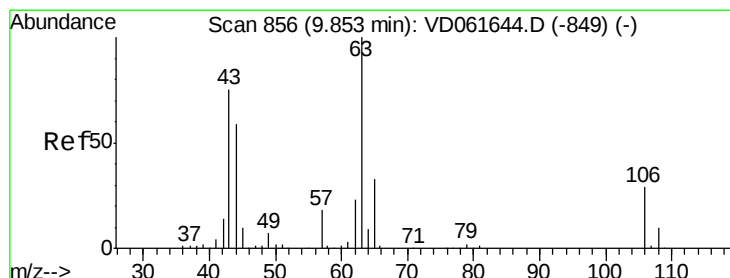
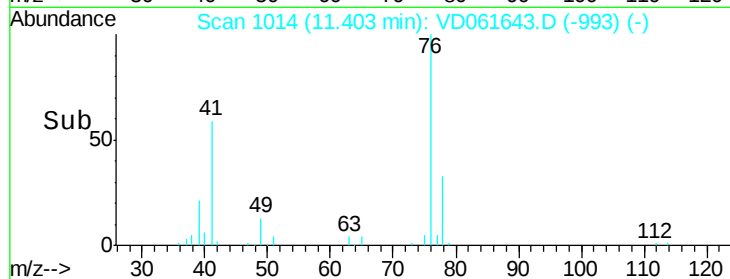
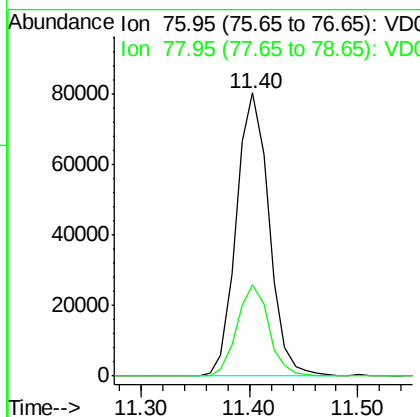
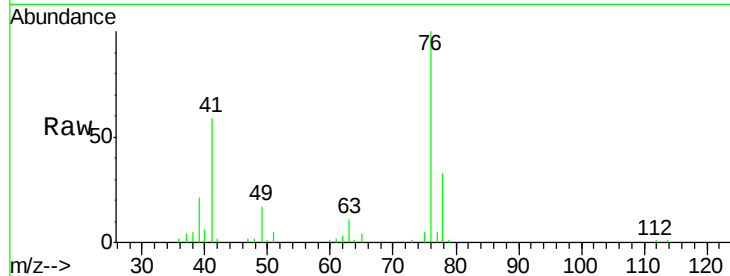




#57
 1,3-Dichloropropane
 Concen: 20.615 ug/l
 RT: 11.40 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

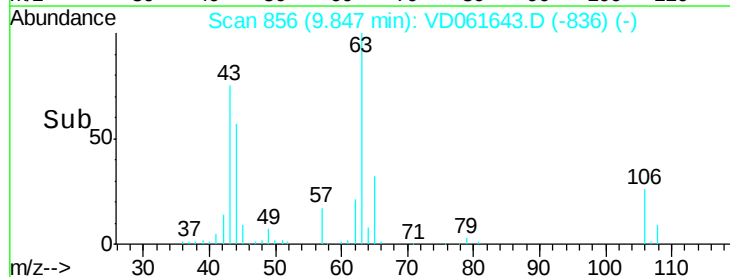
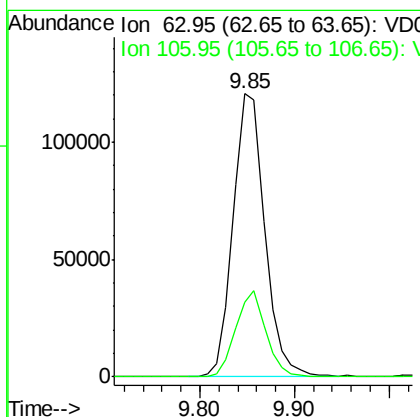
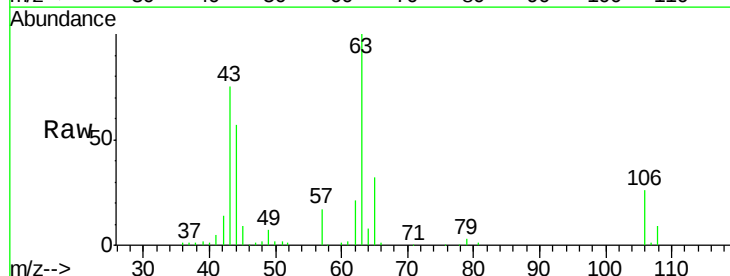
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

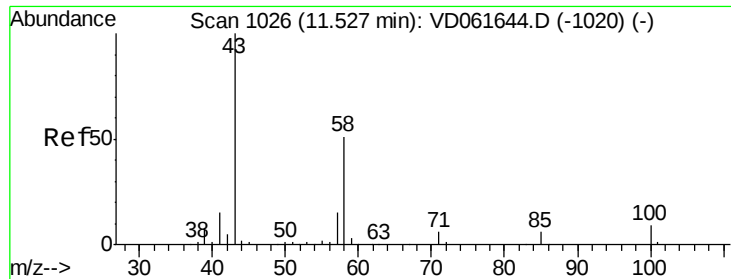
Tot Ion: 76 Resp: 168979
 Ion Ratio Lower Upper
 76 100
 78 32.5 24.5 36.7



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.736 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion: 63 Resp: 279894
 Ion Ratio Lower Upper
 63 100
 106 26.5 23.0 34.6

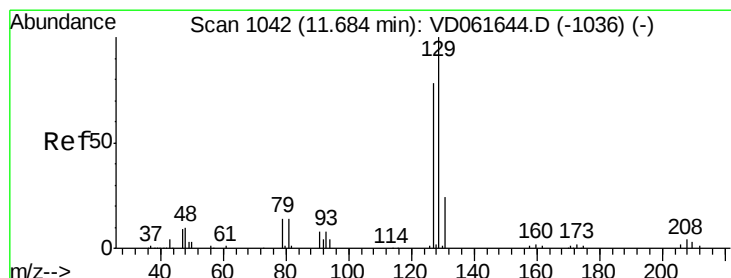
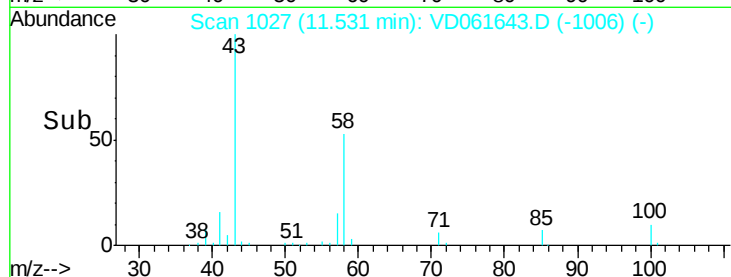
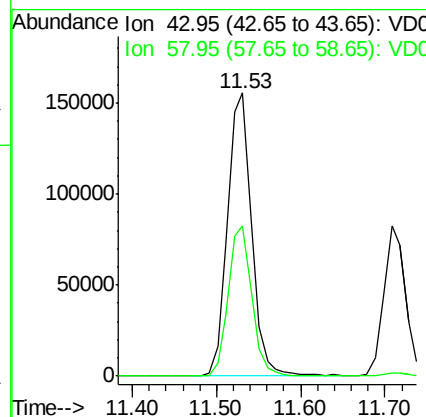
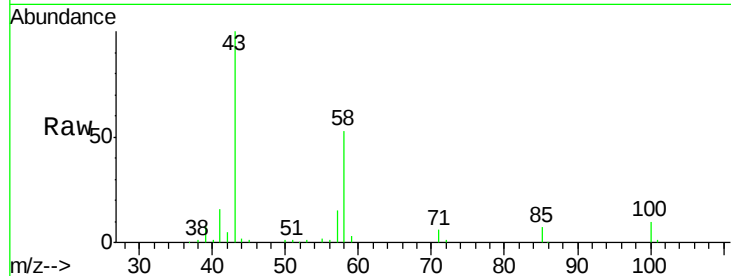




#59
2-Hexanone
Concen: 105.980 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

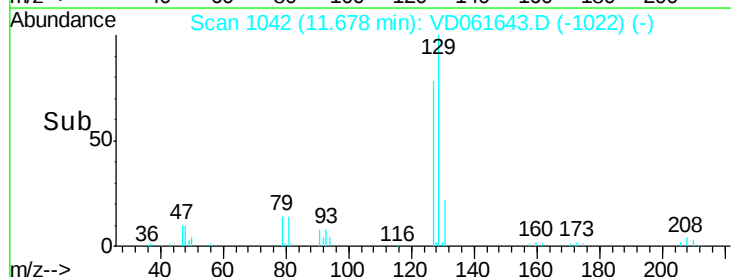
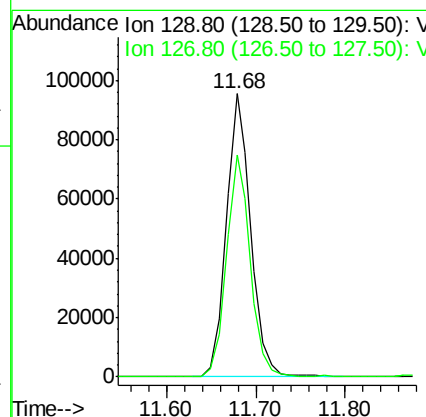
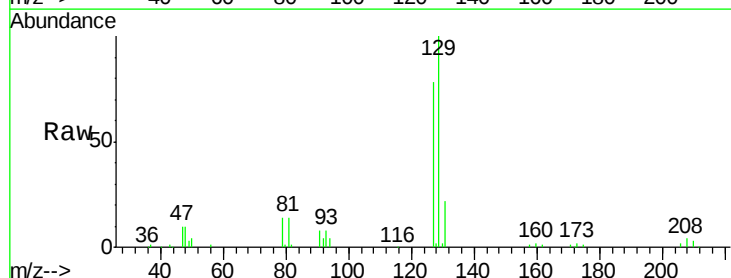
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 308648
Ion Ratio Lower Upper
43 100
58 53.2 25.6 76.8



#60
Dibromochloromethane
Concen: 21.245 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 129 Resp: 183589
Ion Ratio Lower Upper
129 100
127 78.4 38.8 116.4

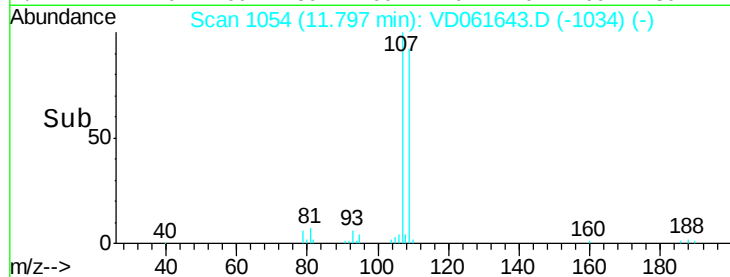
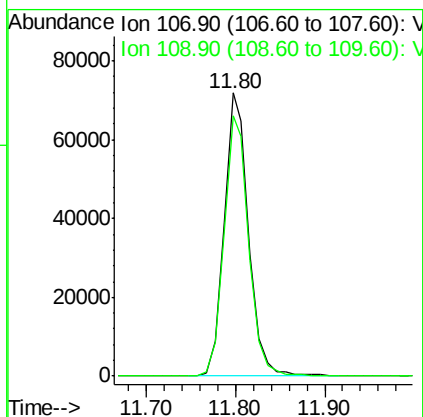
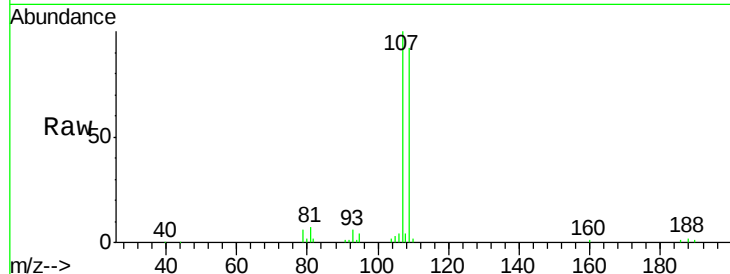




#61
 1,2-Dibromoethane
 Concen: 21.496 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

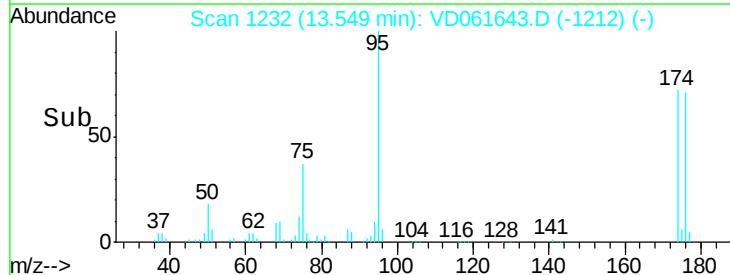
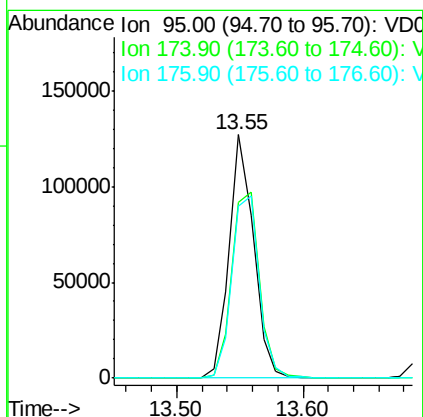
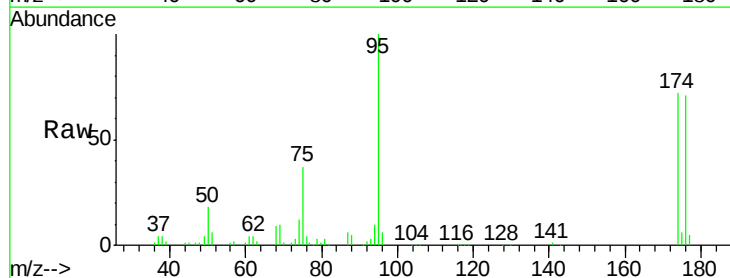
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

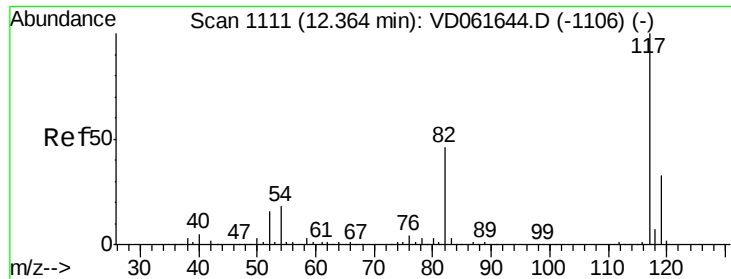
Tot Ion: 107 Resp: 137714
 Ion Ratio Lower Upper
 107 100
 109 92.2 79.2 118.8



#62
 4-Bromofluorobenzene
 Concen: 21.496 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion: 95 Resp: 169899
 Ion Ratio Lower Upper
 95 100
 174 72.1 0.0 164.6
 176 70.6 0.0 165.0

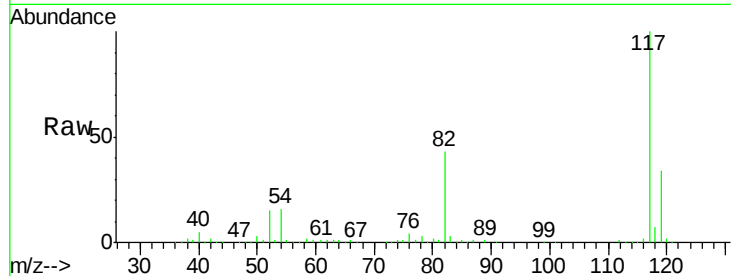




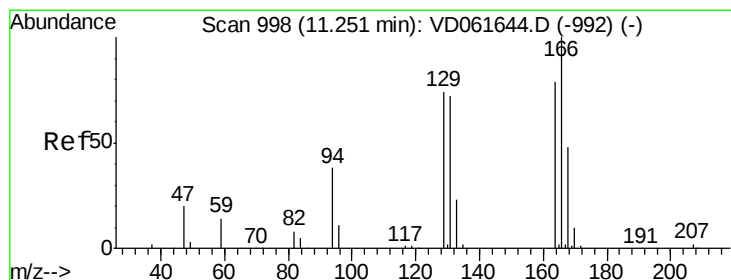
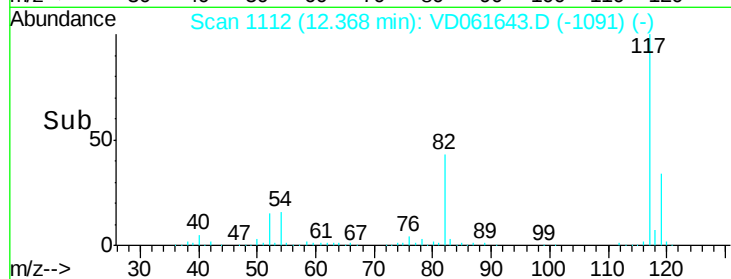
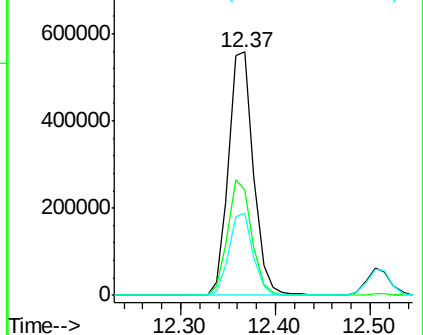
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 1022491
Ion Ratio Lower Upper
117 100
82 43.5 36.8 55.2
119 33.9 26.1 39.1

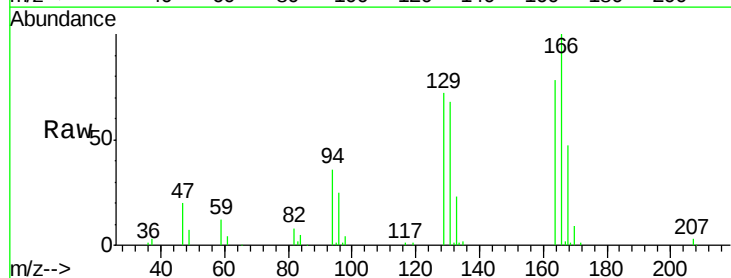


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

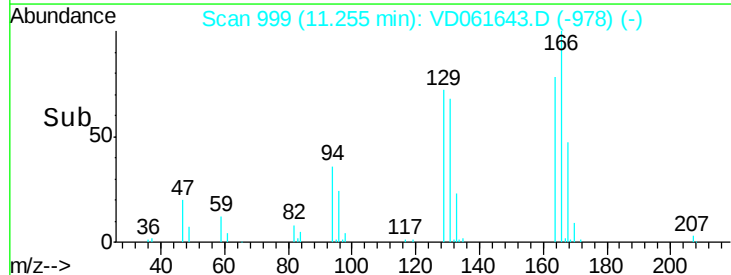
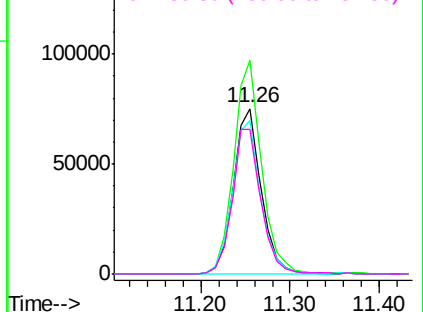


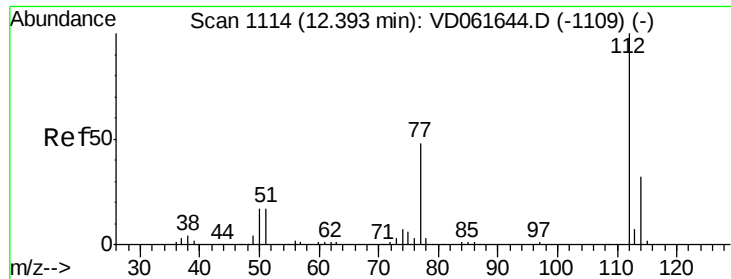
#64
Tetrachloroethene
Concen: 20.885 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion:164 Resp: 162951
Ion Ratio Lower Upper
164 100
166 129.0 101.8 152.8
129 93.1 75.4 113.0
131 87.5 73.6 110.4



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

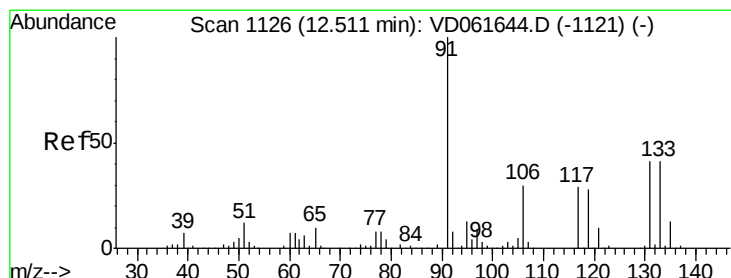
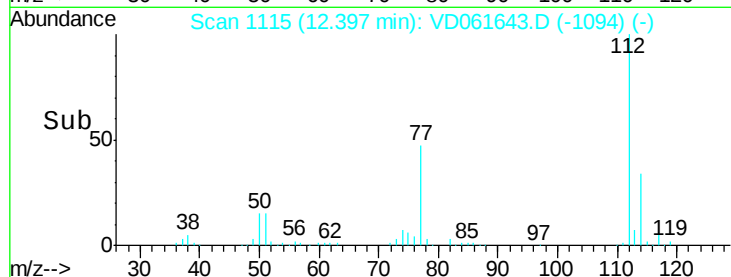
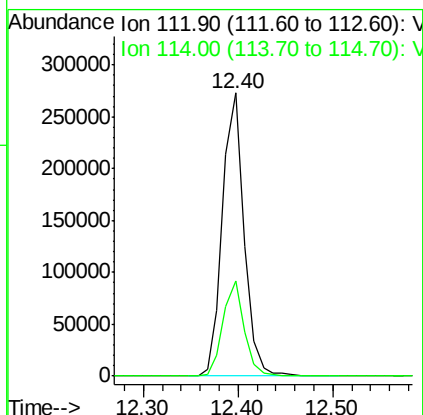
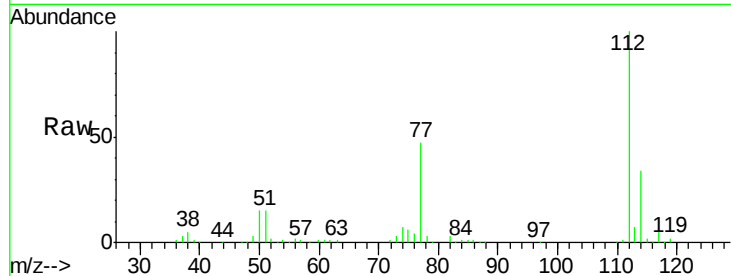




#65
Chlorobenzene
Concen: 21.442 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

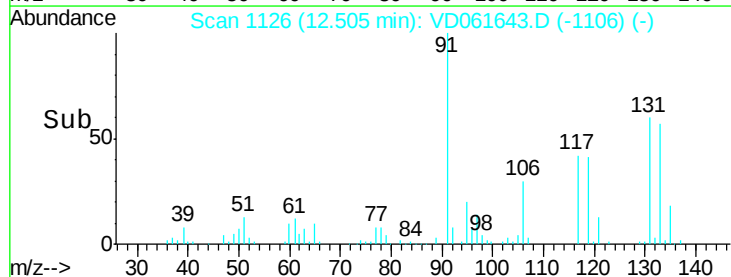
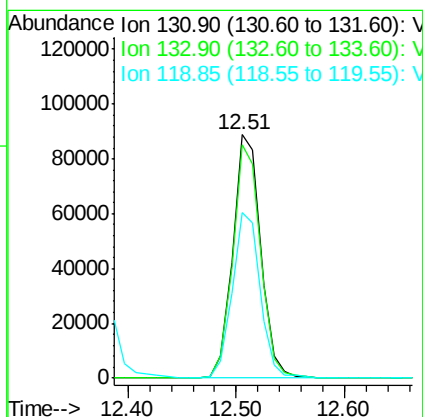
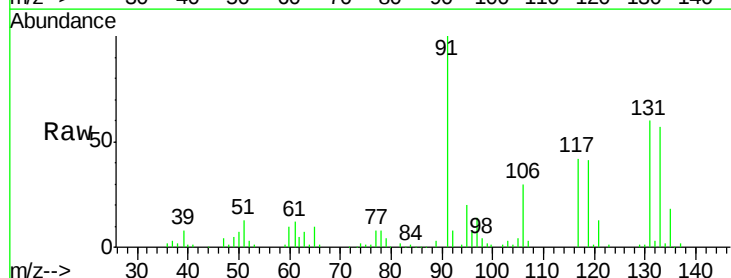
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

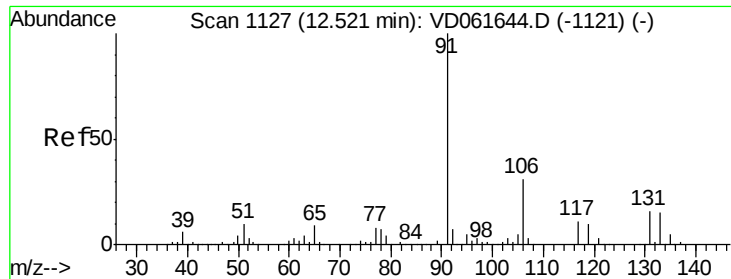
Tot Ion:112 Resp: 432235
Ion Ratio Lower Upper
112 100
114 33.7 25.6 38.4



#66
1,1,1,2-Tetrachloroethane
Concen: 19.803 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion:131 Resp: 158741
Ion Ratio Lower Upper
131 100
133 96.0 49.5 148.3
119 68.0 34.7 104.1

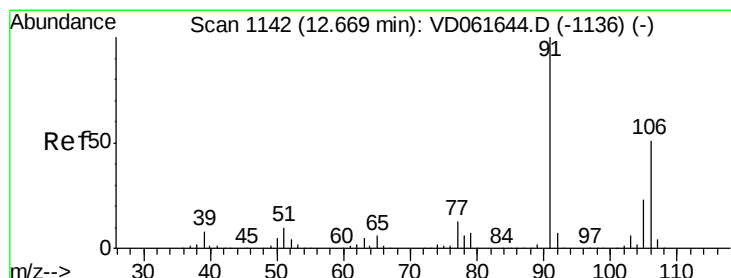
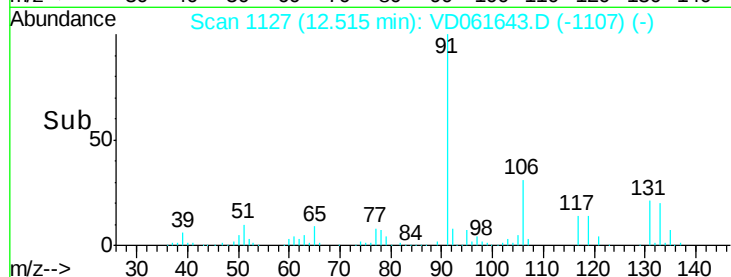
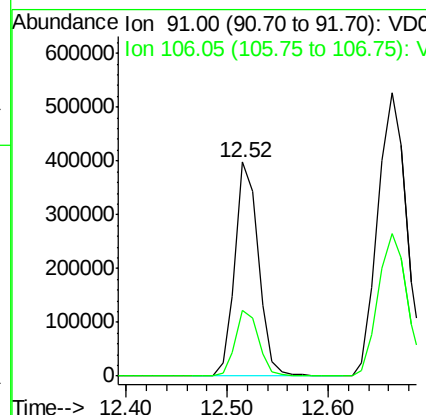
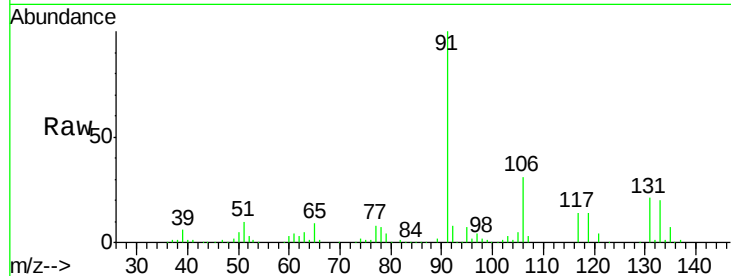




#67
Ethyl Benzene
Concen: 20.105 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

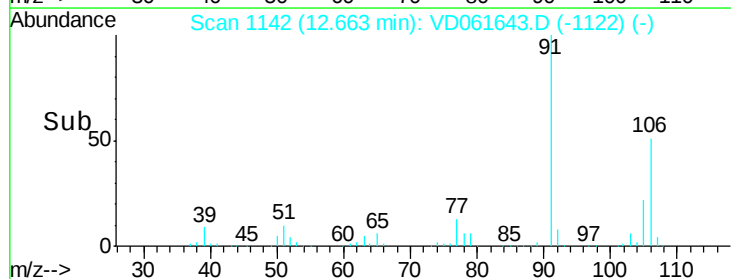
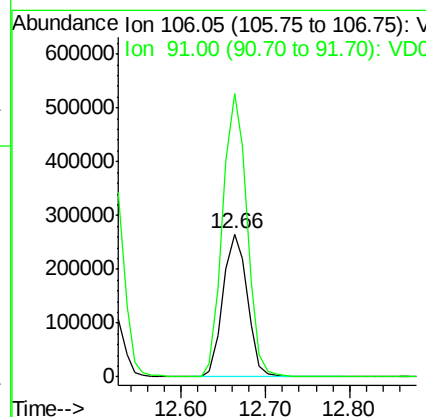
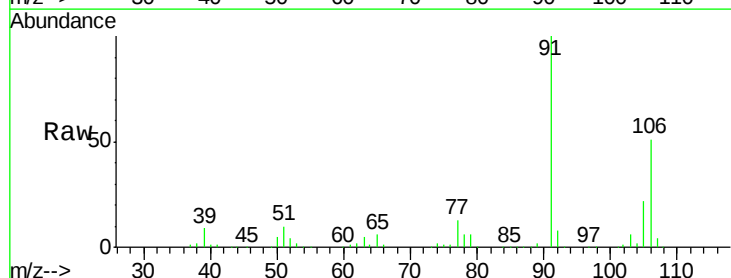
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

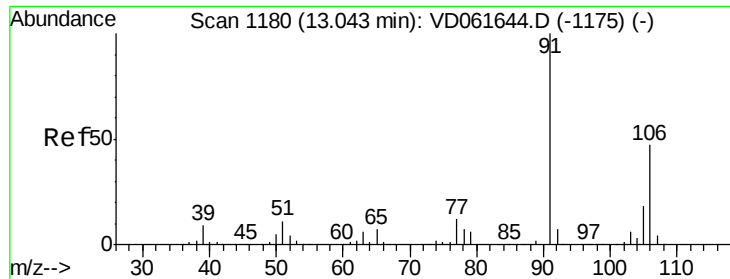
Tot Ion: 91 Resp: 645585
Ion Ratio Lower Upper
91 100
106 30.8 24.6 37.0



#68
m/p-Xylenes
Concen: 45.035 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 106 Resp: 534148
Ion Ratio Lower Upper
106 100
91 197.8 156.7 235.1

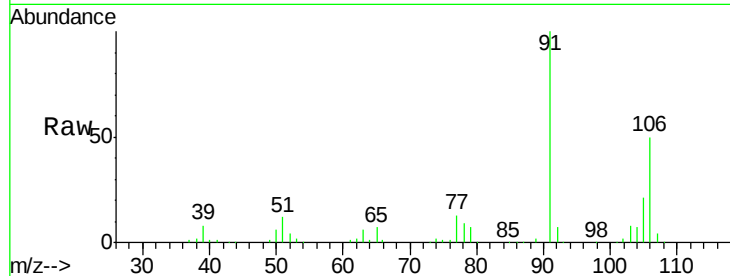




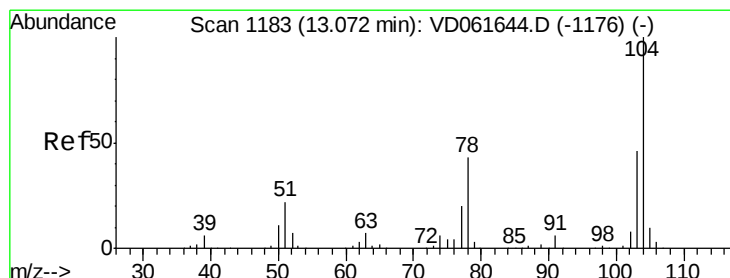
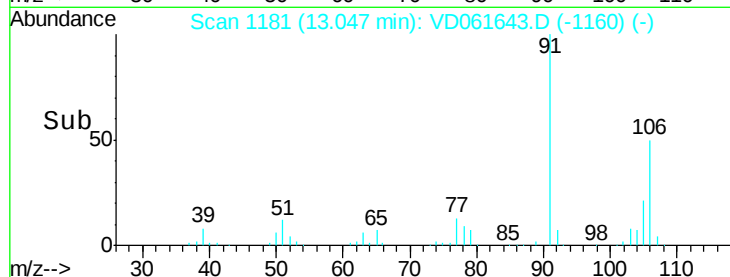
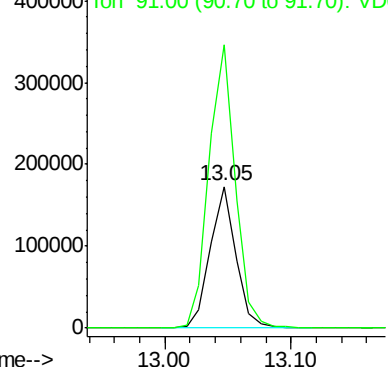
#69
o-Xylene
Concen: 21.048 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 241436
Ion Ratio Lower Upper
106 100
91 200.0 107.3 321.9

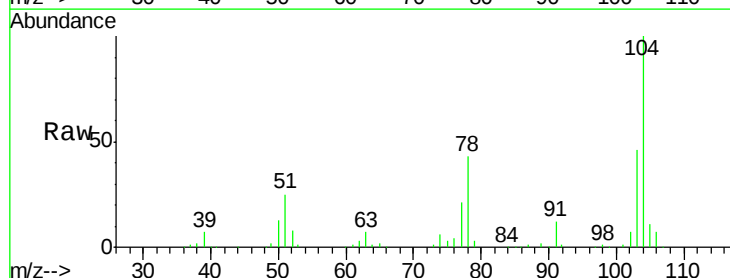


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

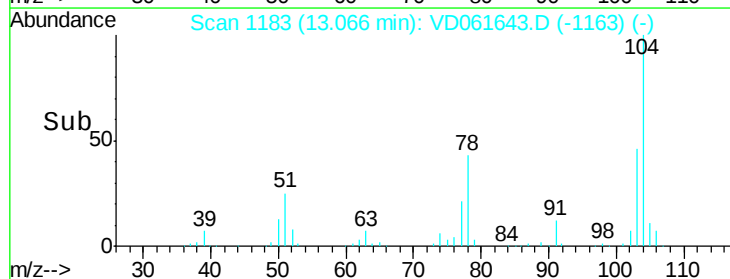
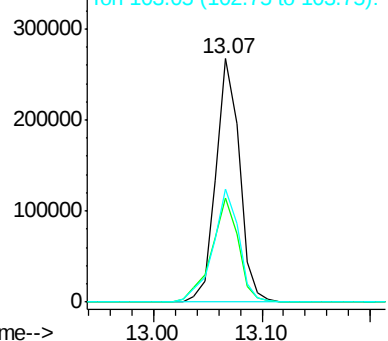


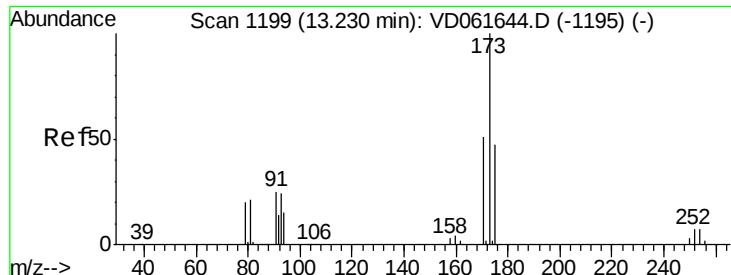
#70
Styrene
Concen: 20.585 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion:104 Resp: 404355
Ion Ratio Lower Upper
104 100
78 42.8 34.2 51.4
103 46.2 37.2 55.8



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

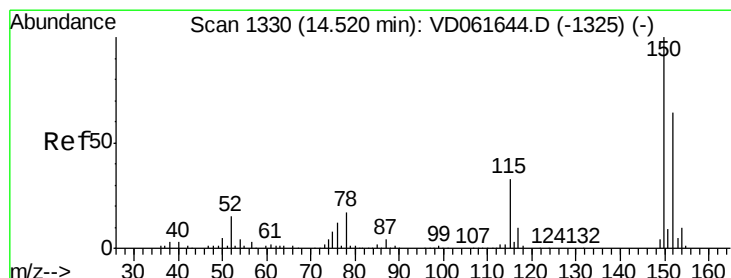
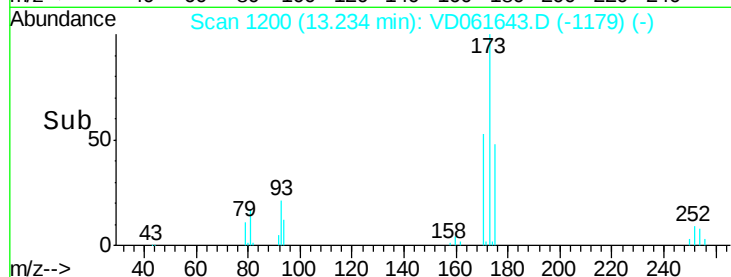
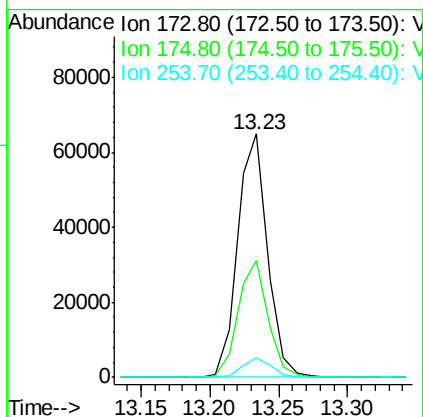
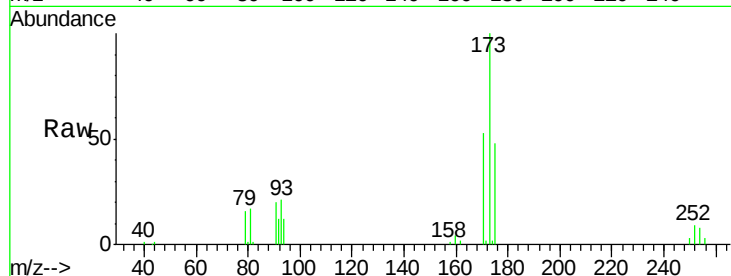




#71
Bromoform
Concen: 20.422 ug/l
RT: 13.23 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

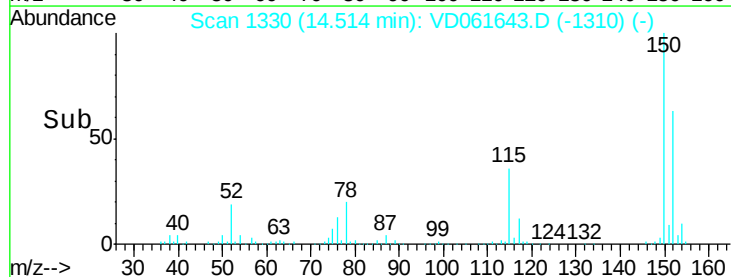
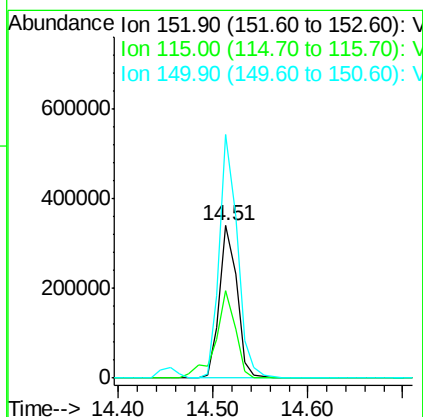
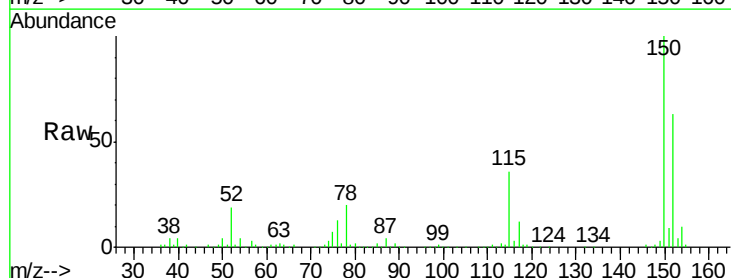
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:173 Resp: 97697
Ion Ratio Lower Upper
173 100
175 48.2 23.7 71.1
254 8.2 5.8 8.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion:152 Resp: 436160
Ion Ratio Lower Upper
152 100
115 57.3 26.4 79.2
150 159.7 0.0 320.6

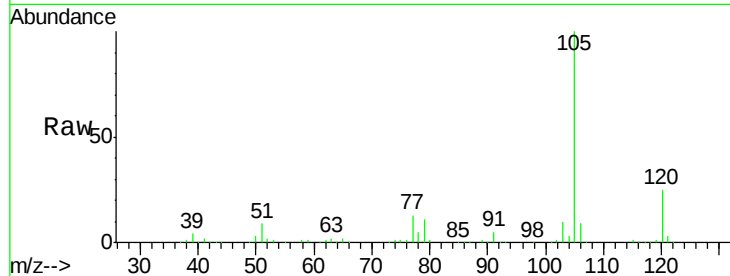




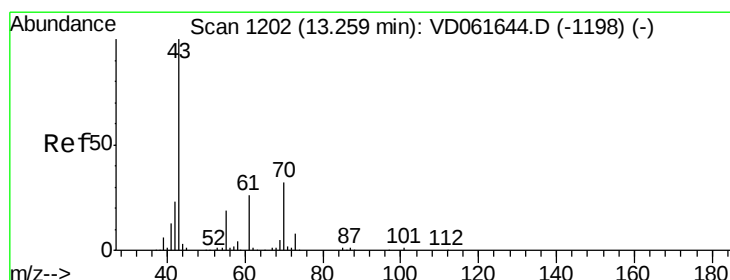
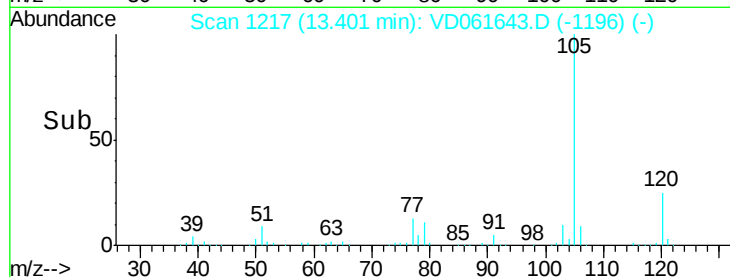
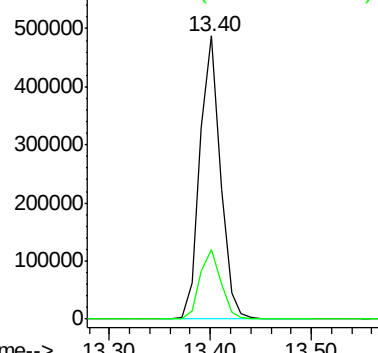
#73
Isopropylbenzene
Concen: 23.431 ug/l
RT: 13.40 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC020

Tot Ion:105 Resp: 687819
Ion Ratio Lower Upper
105 100
120 24.5 12.2 36.4

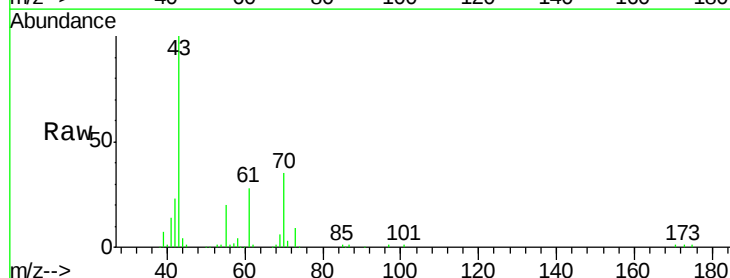


Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V

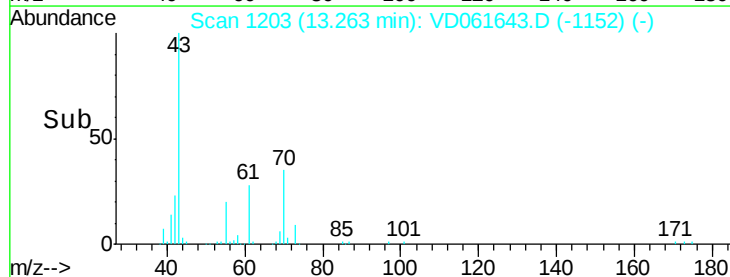
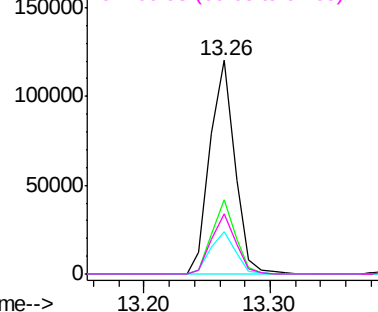


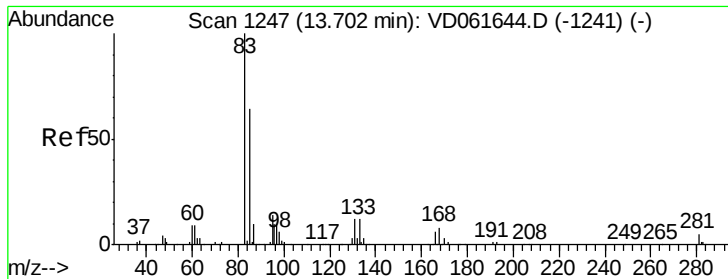
#74
N-ethyl acetate
Concen: 20.639 ug/l
RT: 13.26 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion: 43 Resp: 163747
Ion Ratio Lower Upper
43 100
70 34.7 25.4 38.2
55 20.0 15.0 22.4
61 27.9 20.9 31.3



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 21.824 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

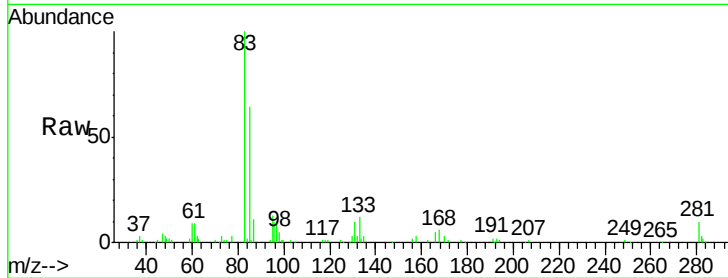
Tot Ion: 83 Resp: 128104

Ion Ratio Lower Upper

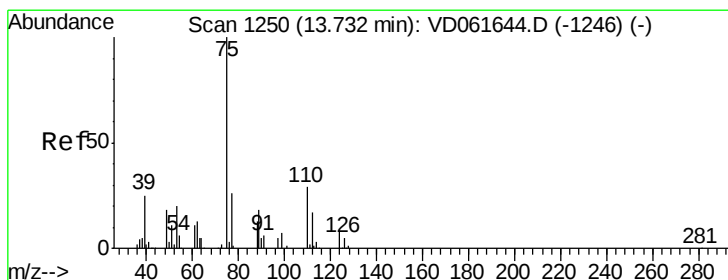
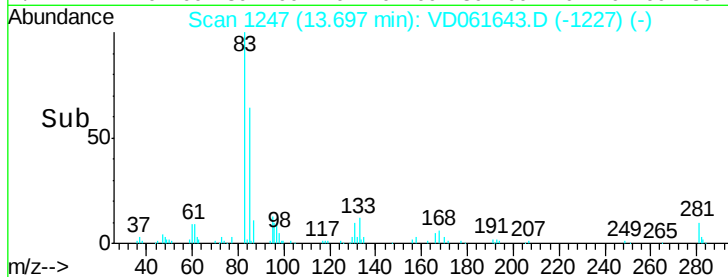
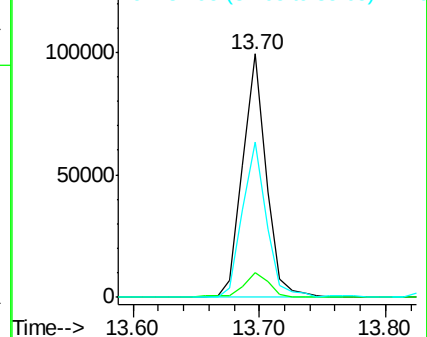
83 100

131 10.2 5.9 17.6

85 63.5 32.0 96.2



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: 20.347 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VD061643.D

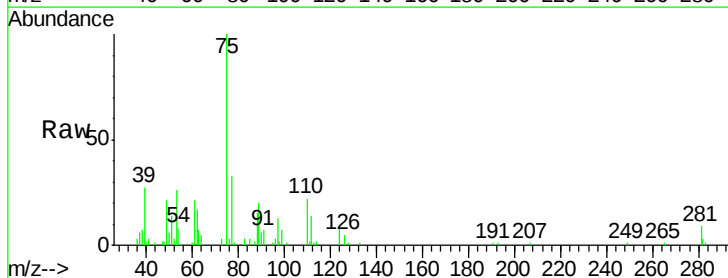
Acq: 6 Apr 2019 15:12

Tgt Ion: 75 Resp: 119085

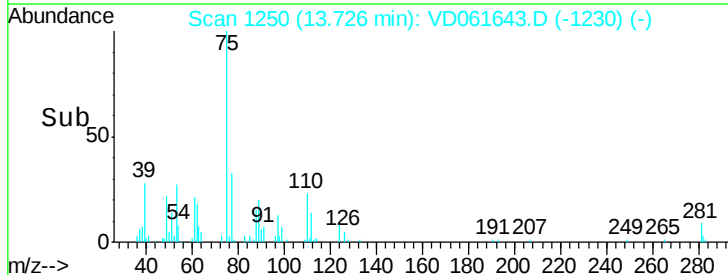
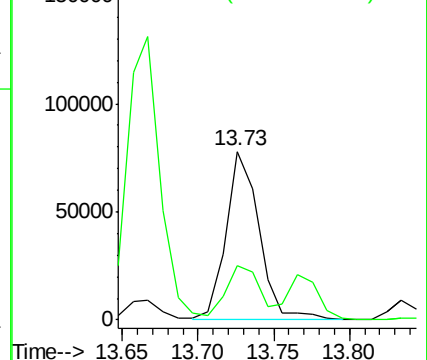
Ion Ratio Lower Upper

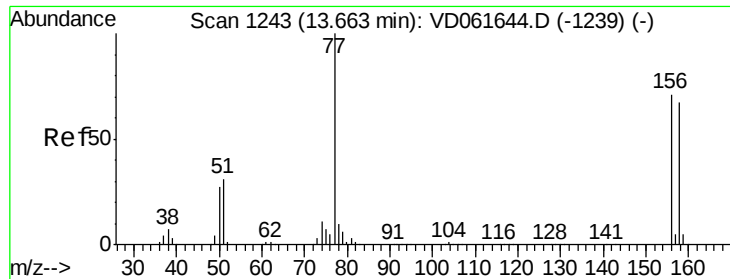
75 100

77 32.6 15.7 47.1



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.023 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

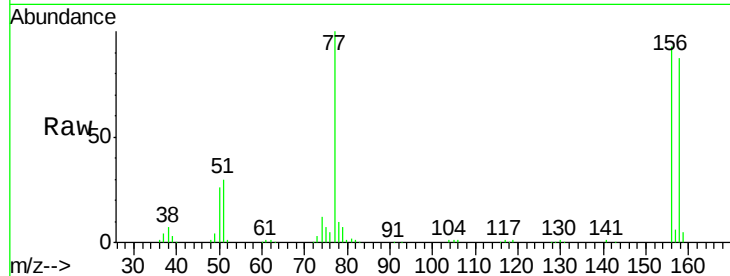
Tot Ion:156 Resp: 163604

Ion Ratio Lower Upper

156 100

77 107.5 70.3 210.8

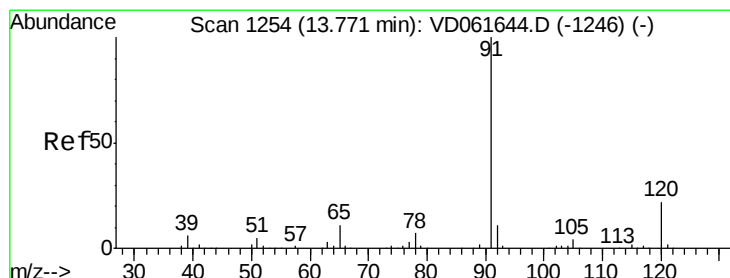
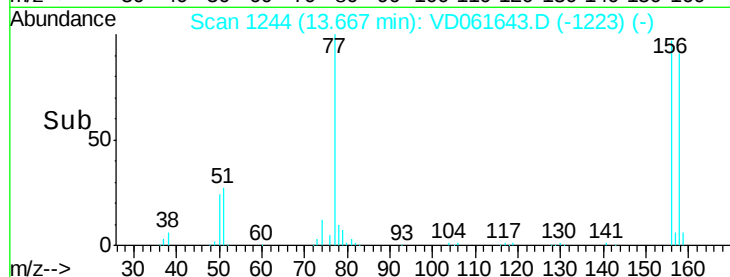
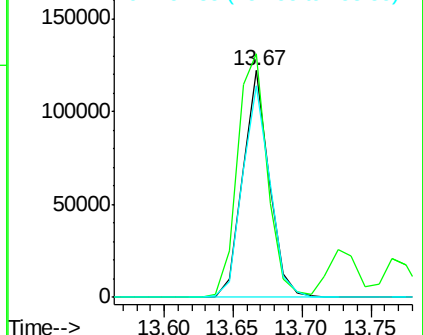
158 93.6 47.4 142.2



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: 23.583 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD061643.D

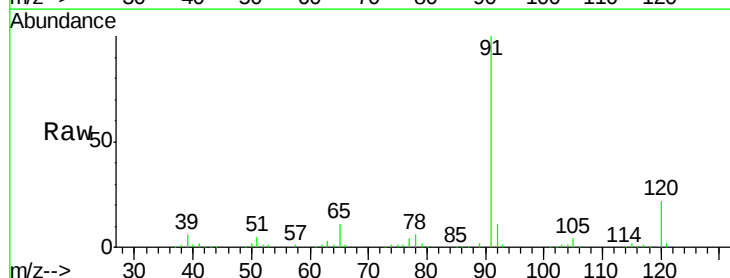
Acq: 6 Apr 2019 15:12

Tgt Ion: 91 Resp: 814320

Ion Ratio Lower Upper

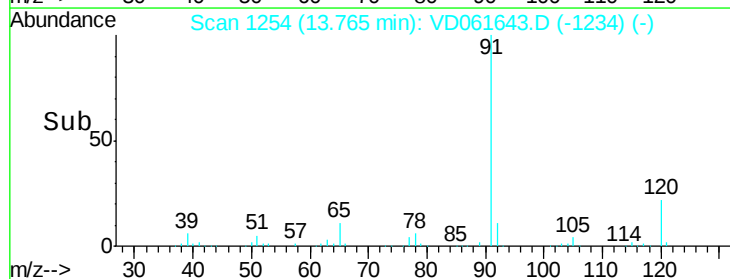
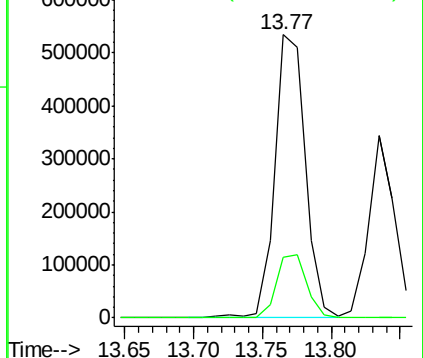
91 100

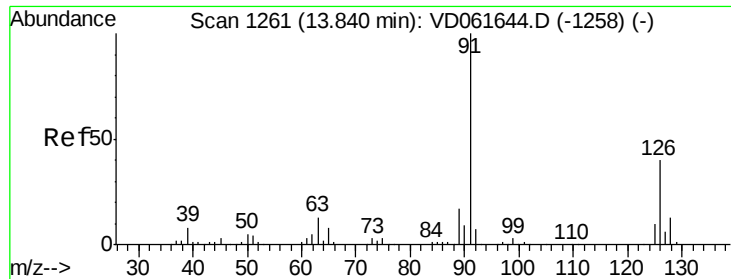
120 21.5 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

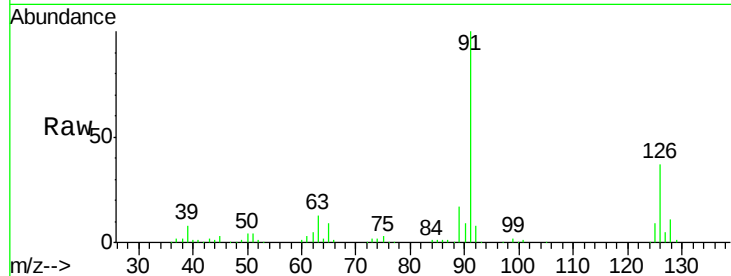




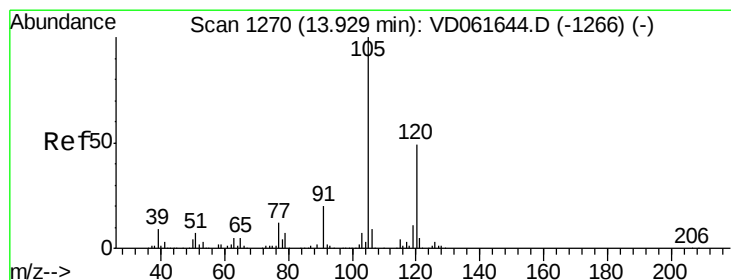
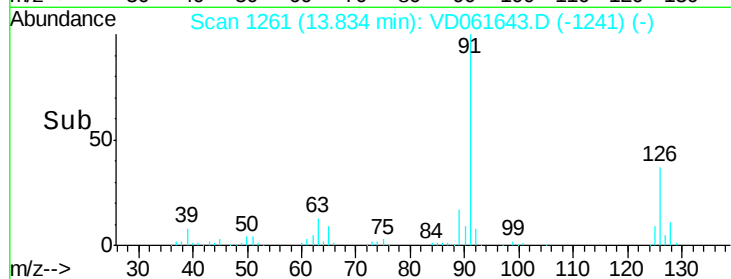
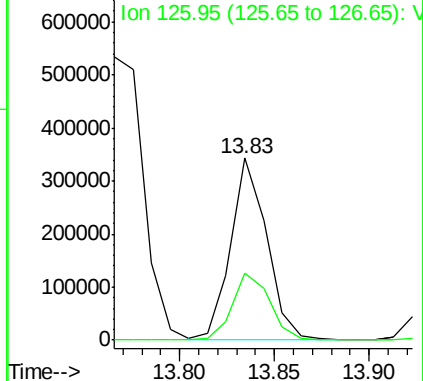
#79
 2-Chlorotoluene
 Concen: 22.917 ug/l
 RT: 13.83 min Scan# 1261
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 91 Resp: 452514
 Ion Ratio Lower Upper
 91 100
 126 36.6 20.0 59.9

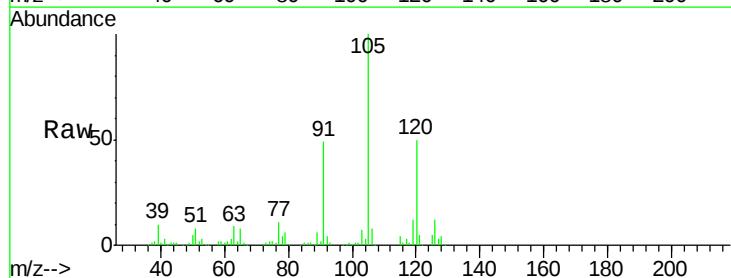


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

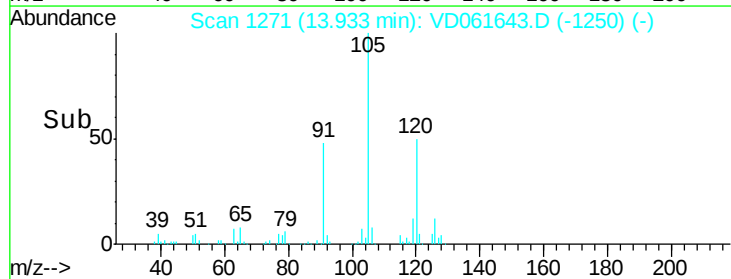
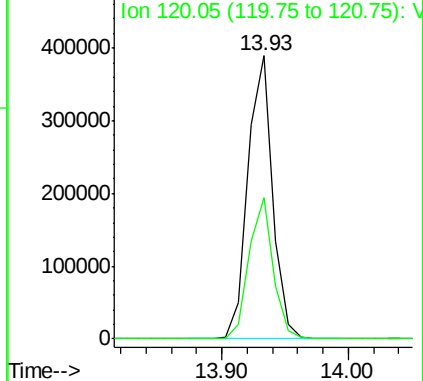


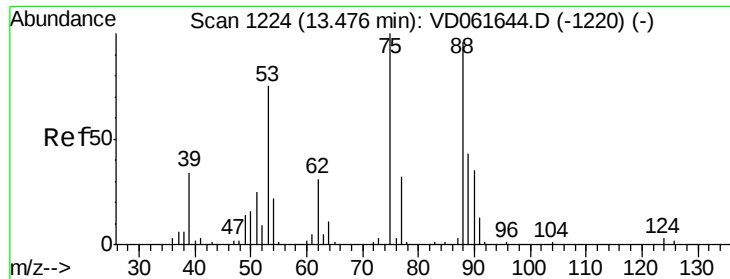
#80
 1,3,5-Trimethylbenzene
 Concen: 22.958 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion: 105 Resp: 528923
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.4 73.2



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: 21.698 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

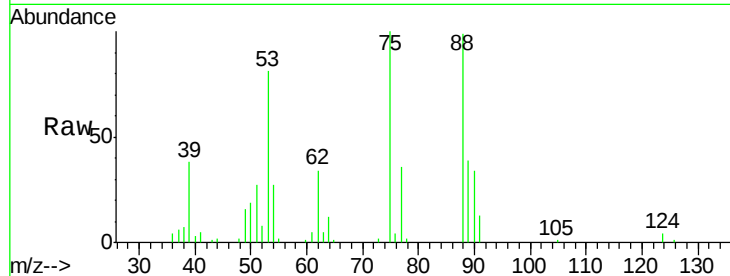
Tot Ion: 75 Resp: 39305

Ion Ratio Lower Upper

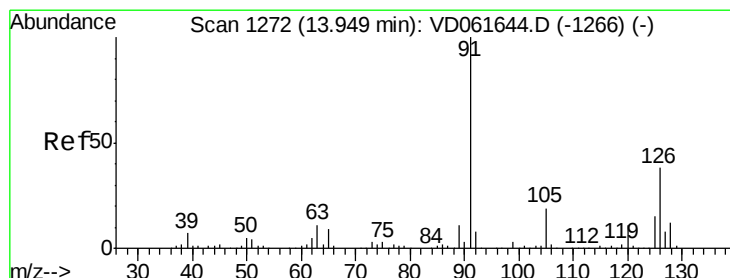
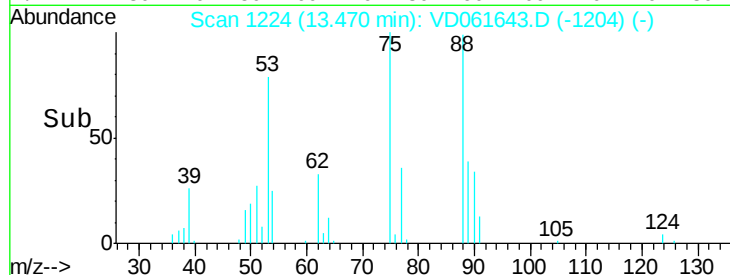
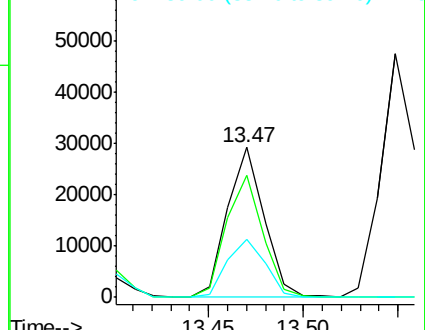
75 100

53 81.1 60.2 90.2

89 39.1 34.2 51.2



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: 23.967 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VD061643.D

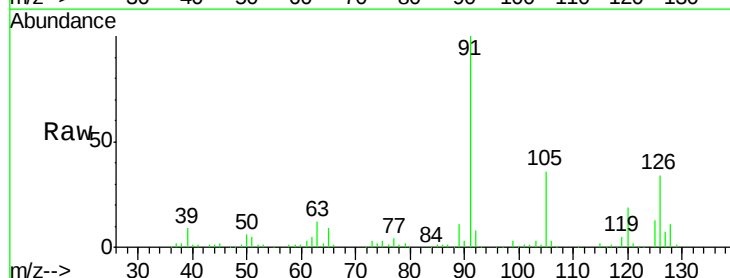
Acq: 6 Apr 2019 15:12

Tgt Ion: 91 Resp: 517084

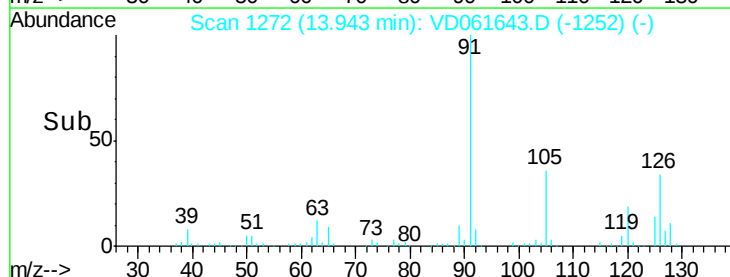
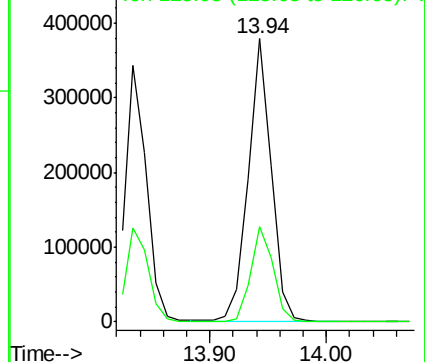
Ion Ratio Lower Upper

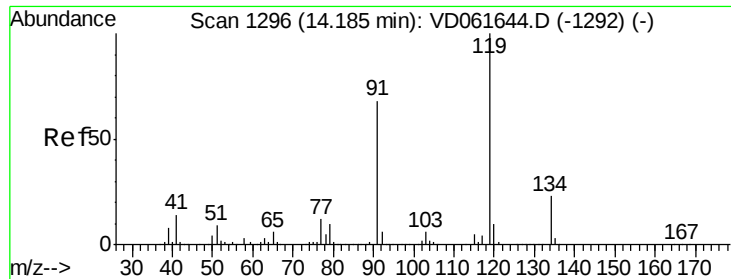
91 100

126 33.6 19.0 57.0



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

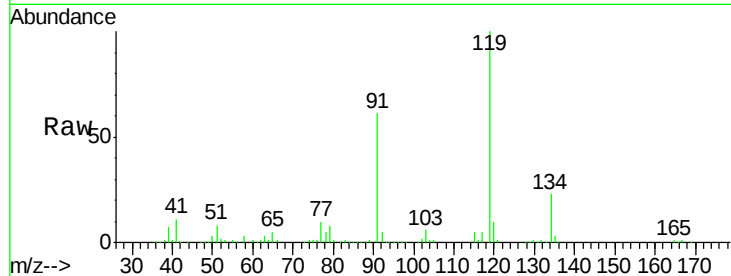




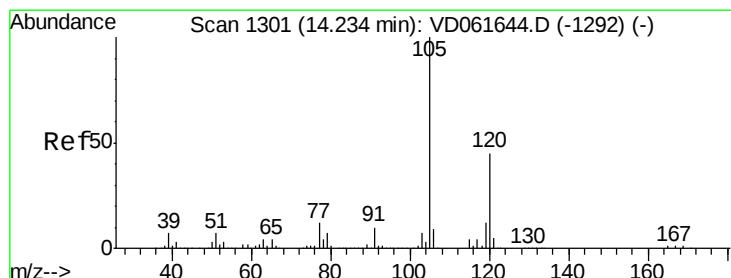
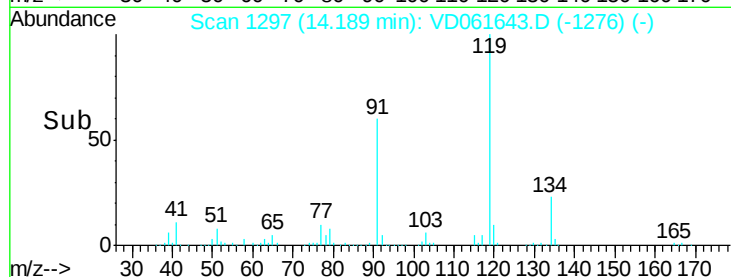
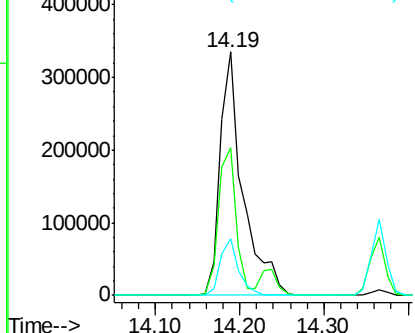
#83
tert-Butylbenzene
Concen: 22.916 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:119 Resp: 631640
Ion Ratio Lower Upper
119 100
91 60.6 33.9 101.6
134 23.3 11.6 34.8

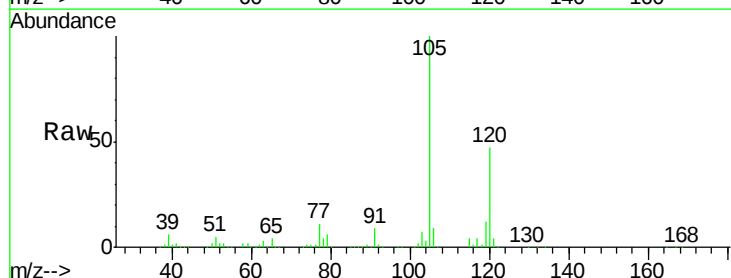


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

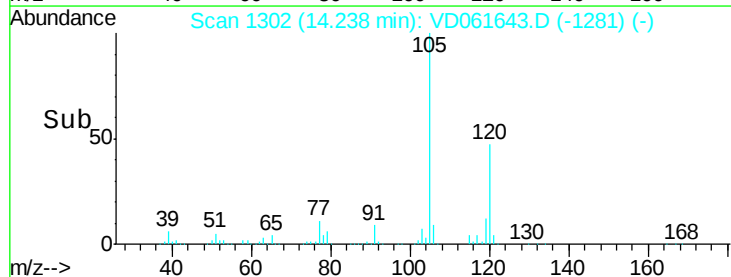
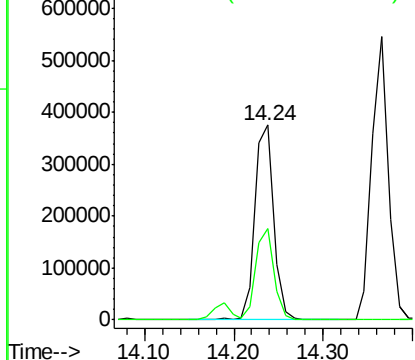


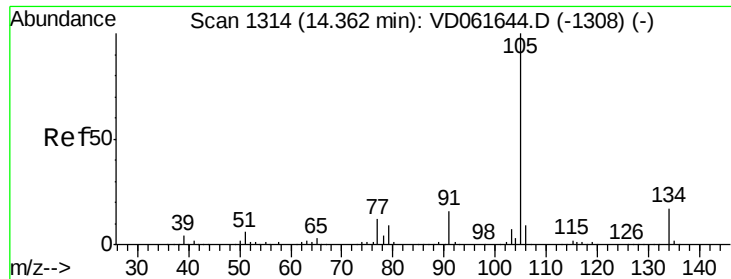
#84
1,2,4-Trimethylbenzene
Concen: 22.830 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion:105 Resp: 540484
Ion Ratio Lower Upper
105 100
120 47.1 22.6 67.8



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





#85

sec-Butylbenzene

Concen: 23.844 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

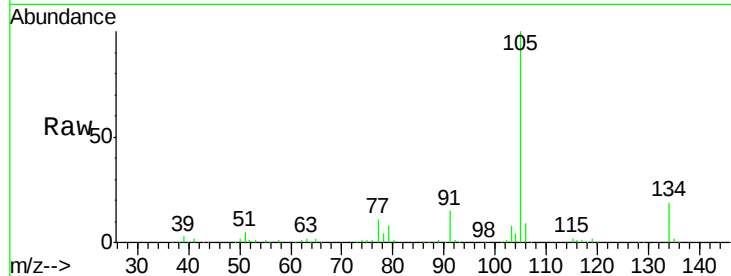
VSTDIC020

Tot Ion:105 Resp: 701959

Ion Ratio Lower Upper

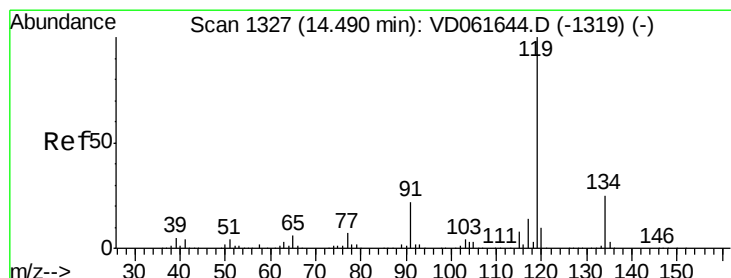
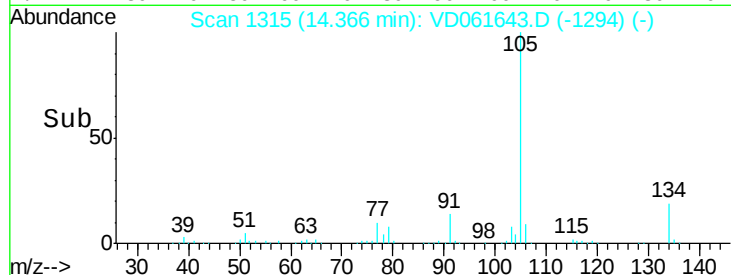
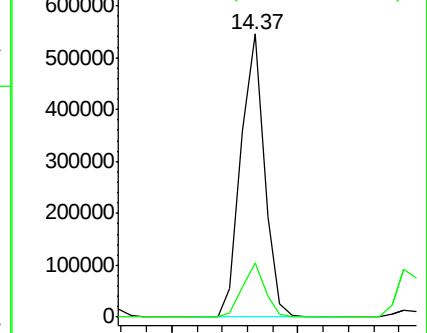
105 100

134 19.2 8.6 25.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 19.023 ug/l

RT: 14.48 min Scan# 1327

Delta R.T. -0.01 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

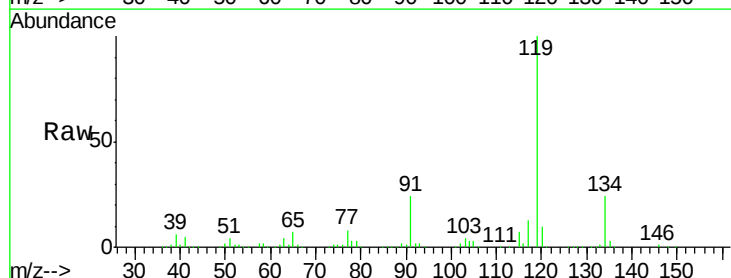
Tgt Ion:119 Resp: 516663

Ion Ratio Lower Upper

119 100

134 23.5 12.5 37.5

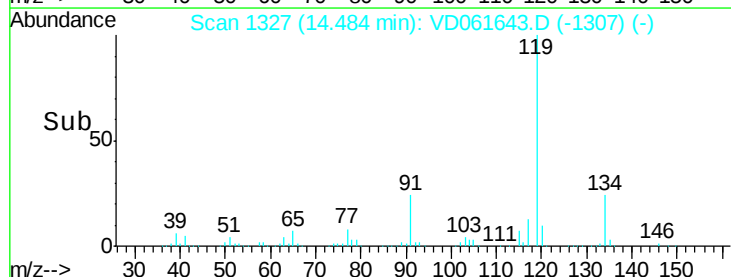
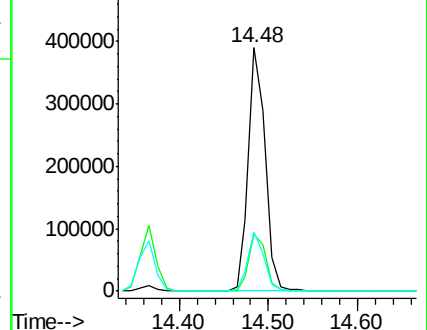
91 24.2 11.0 33.0

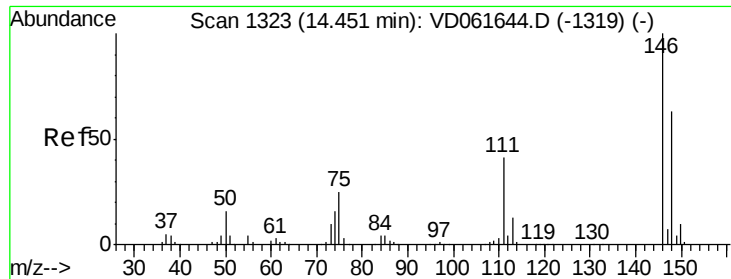


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

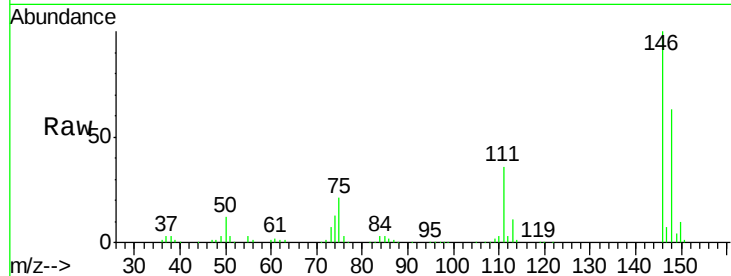




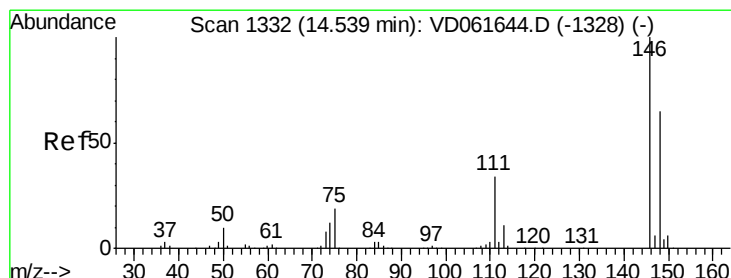
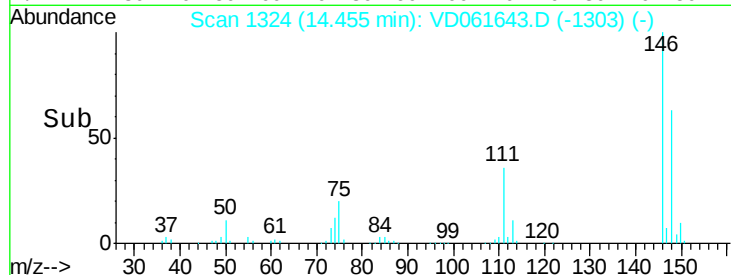
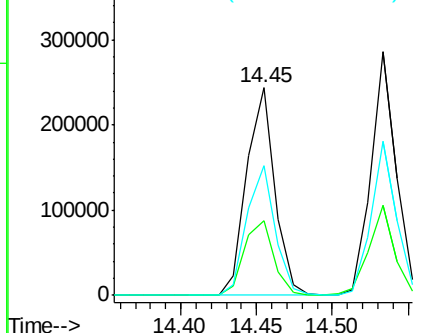
#87
 1,3-Dichlorobenzene
 Concen: 21.651 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:146 Resp: 317116
 Ion Ratio Lower Upper
 146 100
 111 35.7 20.3 61.0
 148 62.7 31.7 95.1

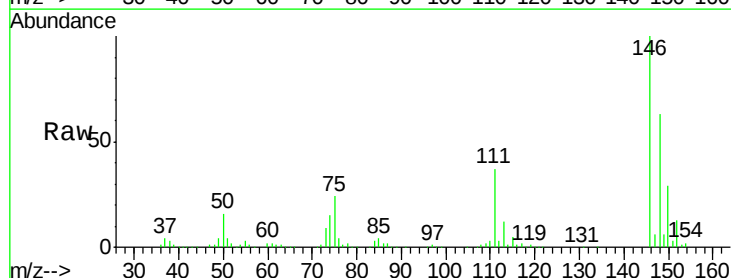


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

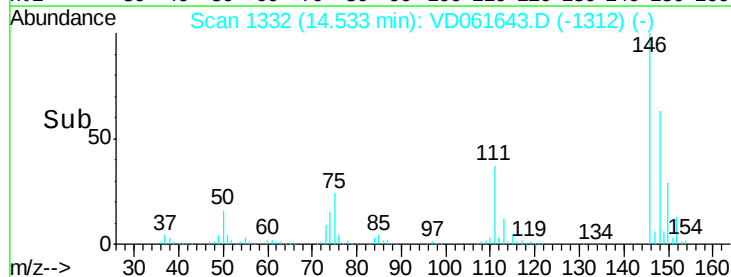
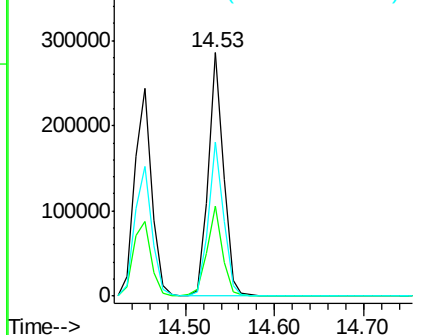


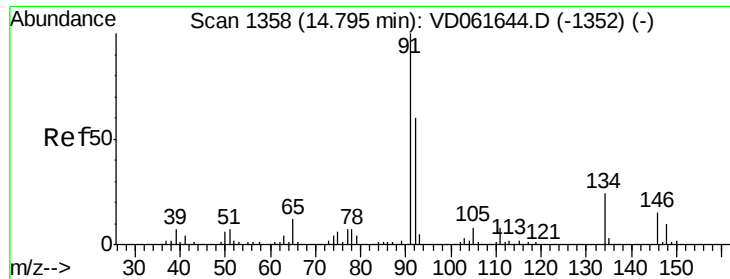
#88
 1,4-Dichlorobenzene
 Concen: 23.112 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion:146 Resp: 335310
 Ion Ratio Lower Upper
 146 100
 111 37.0 17.1 51.2
 148 63.4 32.6 97.7



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





#89

n-Butylbenzene

Concen: 22.557 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD061643.D

Acq: 6 Apr 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

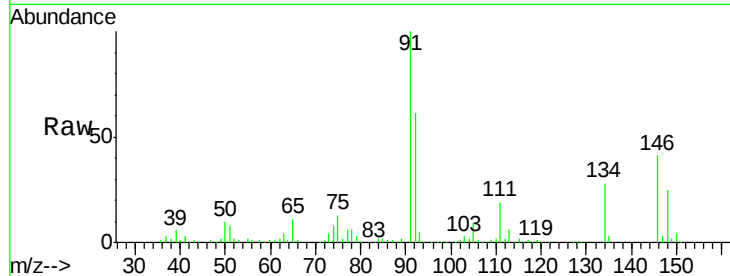
Tot Ion: 91 Resp: 525954

Ion Ratio Lower Upper

91 100

92 60.5 29.8 89.4

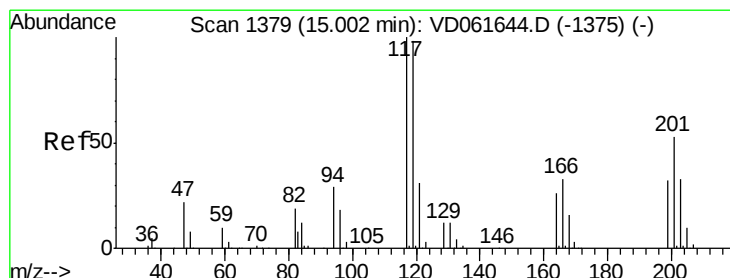
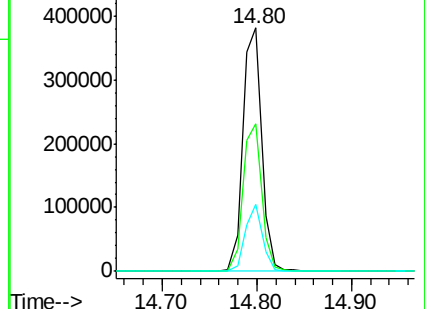
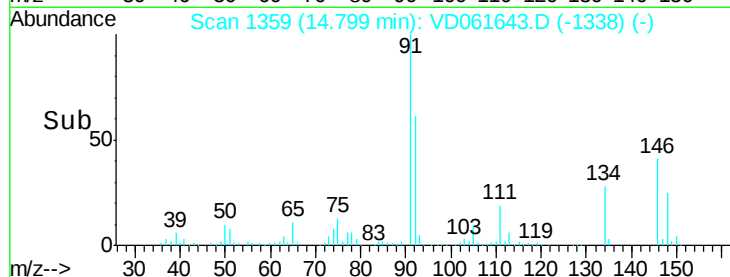
134 27.5 12.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 23.528 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD061643.D

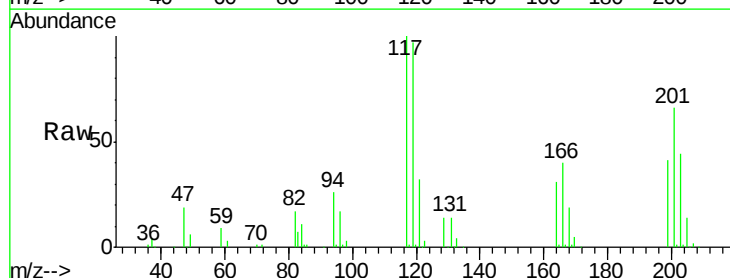
Acq: 6 Apr 2019 15:12

Tgt Ion: 117 Resp: 164943

Ion Ratio Lower Upper

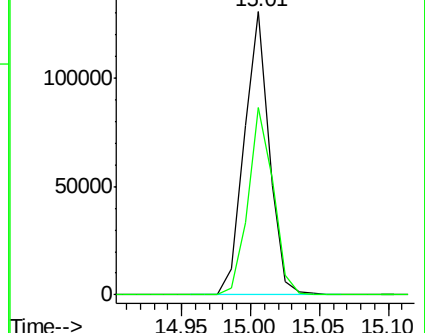
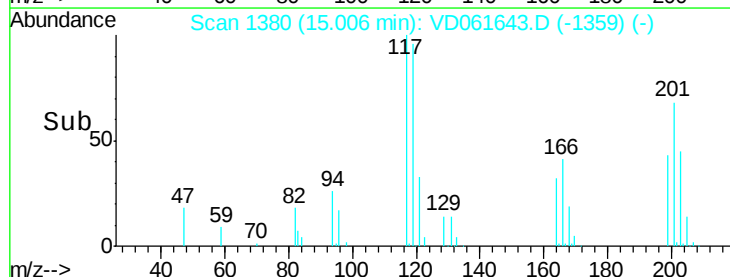
117 100

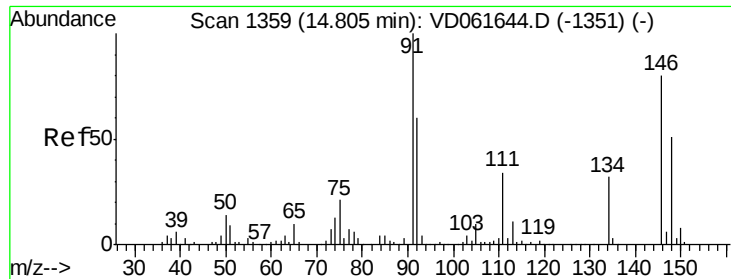
201 66.1 26.3 78.8



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

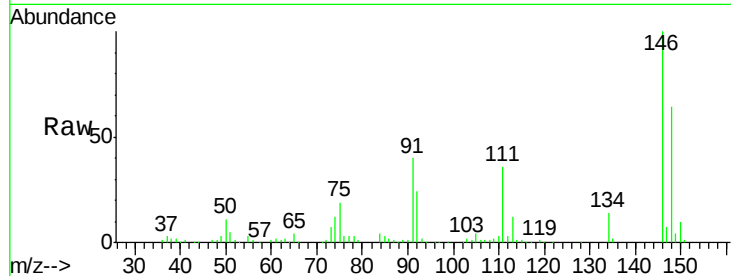




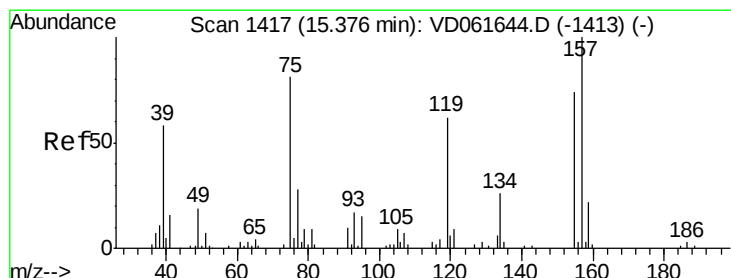
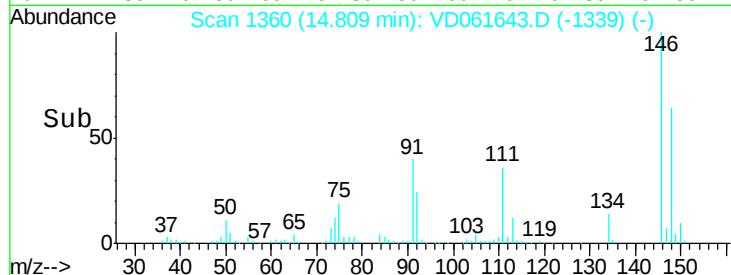
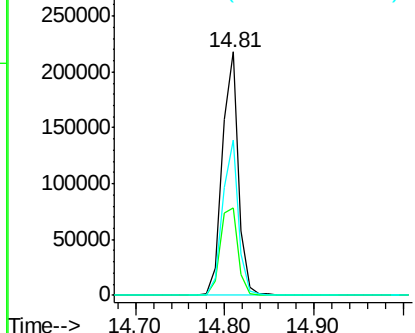
#91
 1,2-Dichlorobenzene
 Concen: 23.201 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:146 Resp: 278664
 Ion Ratio Lower Upper
 146 100
 111 36.1 21.1 63.3
 148 63.8 31.7 95.1

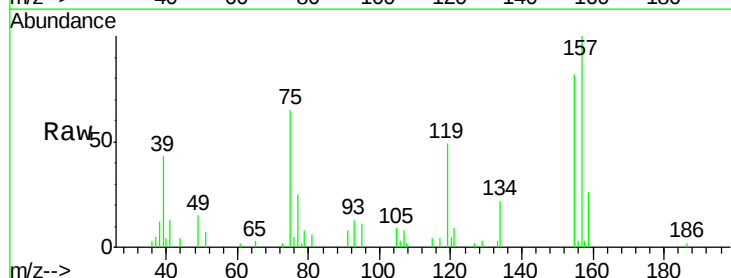


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

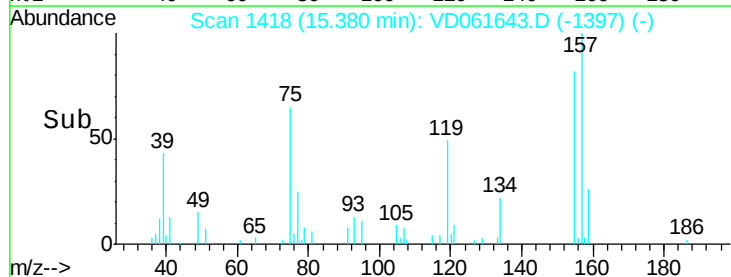
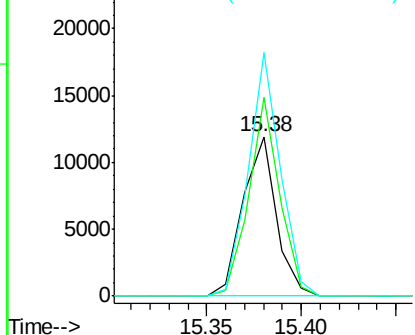


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.774 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion: 75 Resp: 14522
 Ion Ratio Lower Upper
 75 100
 155 124.7 45.6 136.7
 157 152.8 61.4 184.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

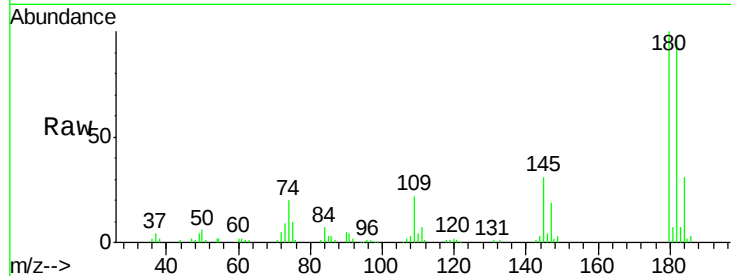




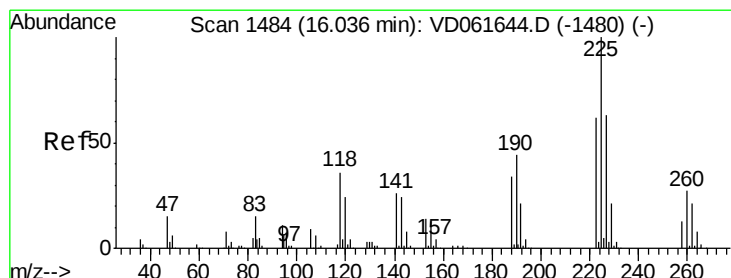
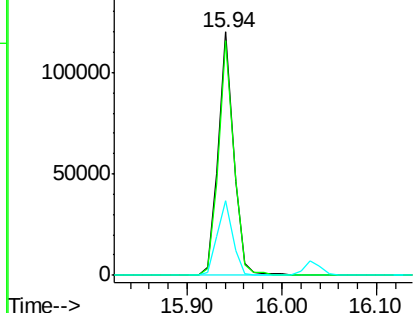
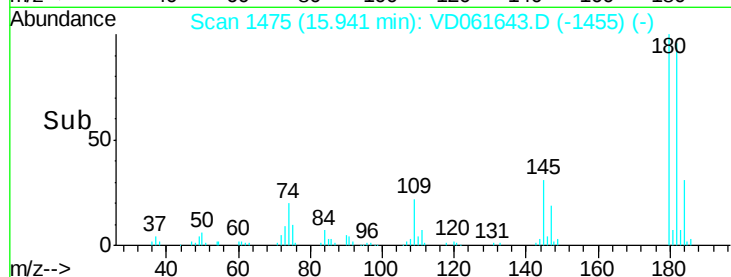
#93
 1,2,4-Trichlorobenzene
 Concen: 22.543 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:180 Resp: 136977
 Ion Ratio Lower Upper
 180 100
 182 96.3 47.8 143.3
 145 30.9 13.3 39.8

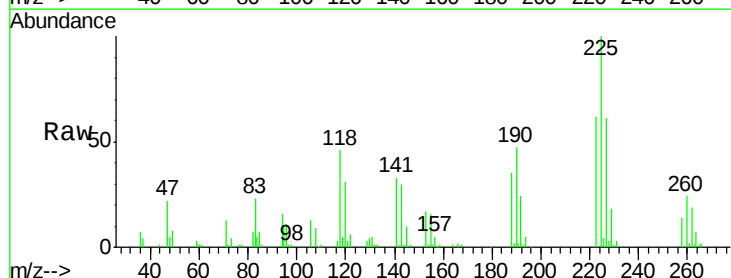


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

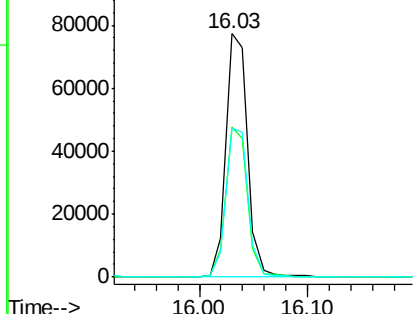
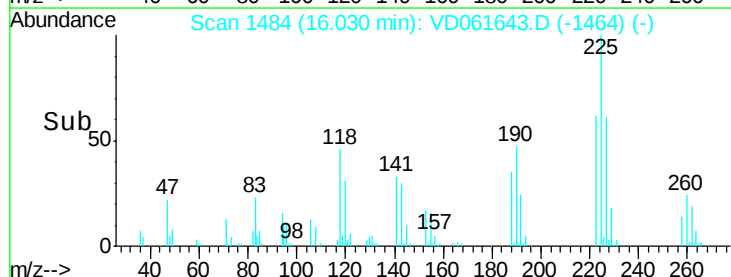


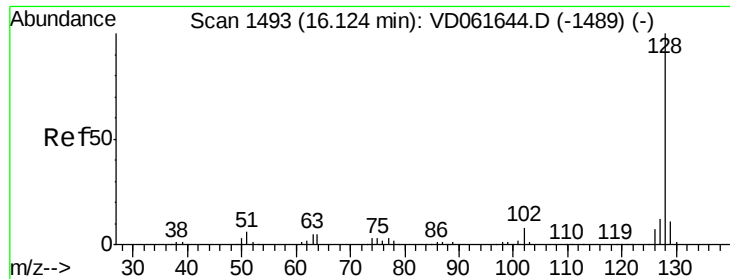
#94
 Hexachlorobutadiene
 Concen: 23.088 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: VD061643.D
 Acq: 6 Apr 2019 15:12

Tgt Ion:225 Resp: 107949
 Ion Ratio Lower Upper
 225 100
 223 61.8 30.8 92.3
 227 61.3 31.5 94.5



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

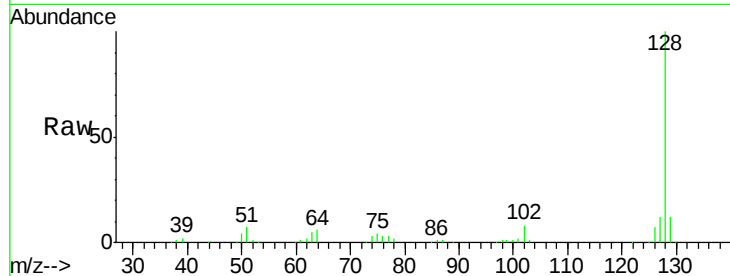




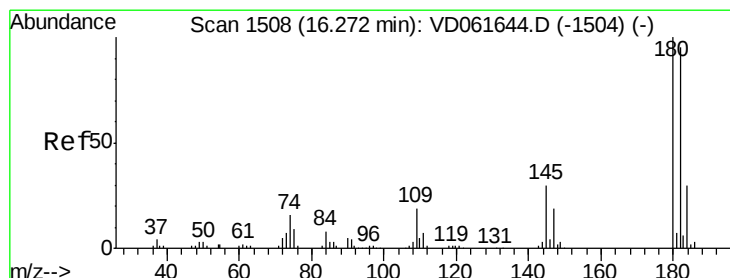
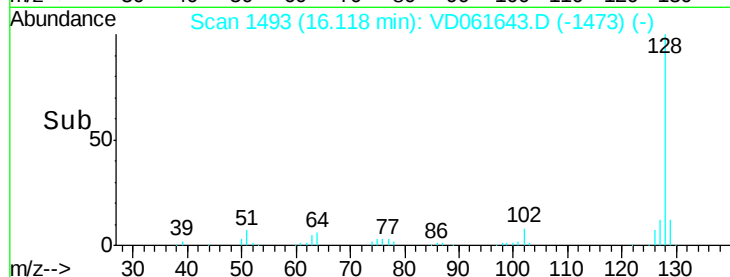
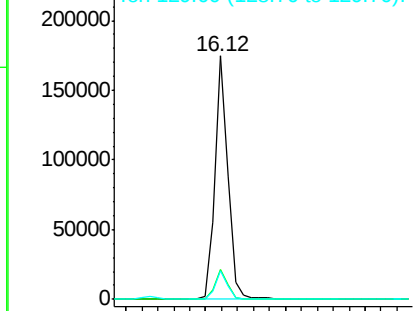
#95
Naphthalene
Concen: 21.116 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:128 Resp: 202355
Ion Ratio Lower Upper
128 100
127 12.3 9.4 14.2
129 11.6 8.8 13.2

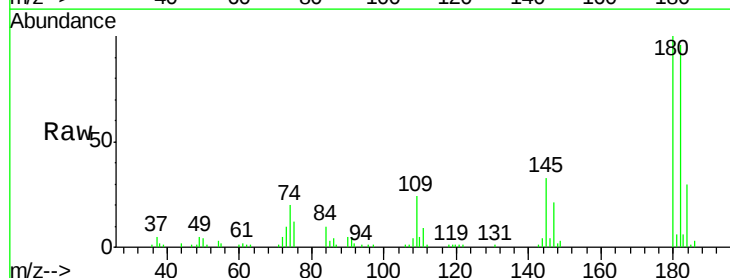


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 23.472 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.01 min
Lab File: VD061643.D
Acq: 6 Apr 2019 15:12

Tgt Ion:180 Resp: 70618
Ion Ratio Lower Upper
180 100
182 95.5 47.3 142.0
145 32.5 15.1 45.3



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

