

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070119\
 Data File : VD062985.D
 Acq On : 1 Jul 2019 12:58
 Operator : VA/AP
 Sample : VD0701SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 02 07:33:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	876023	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.20	114	1178560	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	988138	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	543612	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	458852	48.19	ug/l	-0.02
Spiked Amount			Recovery	=	96.38%	
35) Dibromofluoromethane	6.91	113	491701	49.48	ug/l	-0.02
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	10.40	98	1059360	48.98	ug/l	-0.02
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	13.55	95	481035	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	252007	22.231	ug/l	96
3) Chloromethane	1.75	50	172486	20.232	ug/l #	81
4) Vinyl Chloride	1.84	62	177725	21.025	ug/l	99
5) Bromomethane	2.14	94	63844	16.128	ug/l	99
6) Chloroethane	2.25	64	79060	20.659	ug/l #	88
7) Trichlorofluoromethane	2.51	101	371850	21.737	ug/l	99
8) Diethyl Ether	2.87	74	46322	21.311	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.13	101	181957	19.633	ug/l	93
10) Methyl Iodide	3.29	142	228183	18.662	ug/l	96
11) Tert butyl alcohol	4.09	59	47499	109.524	ug/l #	91
12) 1,1-Dichloroethene	3.11	96	142725	20.529	ug/l	92
13) Acrolein	3.02	56	33018	74.576	ug/l	97
14) Allyl chloride	3.61	41	204851	19.941	ug/l	94
15) Acrylonitrile	4.20	53	106485	104.495	ug/l	95
16) Acetone	3.22	43	192938	95.594	ug/l	95
17) Carbon Disulfide	3.36	76	438966	19.756	ug/l	96
18) Methyl Acetate	3.64	43	80933	28.155	ug/l #	91
19) Methyl tert-butyl Ether	4.23	73	323169	21.472	ug/l	94
20) Methylene Chloride	3.80	84	149313	20.561	ug/l #	81
21) trans-1,2-Dichloroethene	4.21	96	156814	21.183	ug/l	92
22) Diisopropyl ether	5.11	45	444946	21.298	ug/l	97
23) Vinyl Acetate	5.04	43	1357039	103.807	ug/l	98
24) 1,1-Dichloroethane	4.96	63	280957	20.655	ug/l	98
25) 2-Butanone	6.07	43	187048	105.027	ug/l #	89
26) 2,2-Dichloropropane	6.01	77	317961	22.054	ug/l	94
27) cis-1,2-Dichloroethene	6.03	96	165818	21.182	ug/l	99
28) Bromochloromethane	6.42	49	107824	22.507	ug/l	98
29) Tetrahydrofuran	6.45	42	90446	107.337	ug/l	98
30) Chloroform	6.65	83	361765	21.869	ug/l	96
31) Cyclohexane	6.94	56	183642	20.537	ug/l	94
32) 1,1,1-Trichloroethane	6.86	97	352590	20.464	ug/l	96
36) 1,1-Dichloropropene	7.13	75	234604	21.028	ug/l	97
37) Ethyl Acetate	6.18	43	93777	19.334	ug/l #	93
38) Carbon Tetrachloride	7.10	117	338544	20.176	ug/l	97

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 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	205640	20.940	ug/l	95
40) Benzene	7.45	78	461931	20.627	ug/l	97
41) Methacrylonitrile	6.44	41	128511	21.842	ug/l	93
42) 1,2-Dichloroethane	7.56	62	241523	19.769	ug/l	99
43) Isopropyl Acetate	9.23	43	125947	21.533	ug/l #	91
44) Trichloroethene	8.53	130	185219	21.096	ug/l	93
45) 1,2-Dichloropropane	8.93	63	116176	20.862	ug/l	99
46) Dibromomethane	9.05	93	99688	20.840	ug/l	92
47) Bromodichloromethane	9.36	83	264511	21.291	ug/l	99
48) Methyl methacrylate	9.12	41	82680	19.892	ug/l	93
49) 1,4-Dioxane	9.08	88	14485	418.871	ug/l	92
51) 4-Methyl-2-Pentanone	10.29	43	427289	103.036	ug/l	99
52) Toluene	10.51	92	303402	20.154	ug/l	98
53) t-1,3-Dichloropropene	10.90	75	219955	21.631	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	228636	20.687	ug/l	97
55) 1,1,2-Trichloroethane	11.18	97	102669	19.851	ug/l	98
56) Ethyl methacrylate	11.04	69	102268	18.503	ug/l	95
57) 1,3-Dichloropropane	11.40	76	168010	21.216	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.85	63	294131	103.655	ug/l	95
59) 2-Hexanone	11.52	43	320894	108.651	ug/l	93
60) Dibromochloromethane	11.68	129	203663	21.141	ug/l	95
61) 1,2-Dibromoethane	11.80	107	133060	21.783	ug/l	97
64) Tetrachloroethene	11.24	164	175620	21.595	ug/l	94
65) Chlorobenzene	12.40	112	410145	22.365	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.51	131	182962	21.334	ug/l	97
67) Ethyl Benzene	12.51	91	687108	20.869	ug/l	98
68) m/p-Xylenes	12.66	106	484833	42.279	ug/l	95
69) o-Xylene	13.05	106	230227	21.962	ug/l	96
70) Styrene	13.07	104	420068	22.814	ug/l	94
71) Bromoform	13.23	173	124817	21.242	ug/l	95
73) Isopropylbenzene	13.40	105	689743	19.789	ug/l	99
74) N-amyl acetate	13.26	43	185862	21.958	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	121803	21.448	ug/l	86
76) 1,2,3-Trichloropropane	13.73	75	142050	22.635	ug/l	95
77) Bromobenzene	13.67	156	199186	21.246	ug/l	94
78) n-propylbenzene	13.77	91	799949	19.718	ug/l	95
79) 2-Chlorotoluene	13.83	91	483035	20.835	ug/l	98
80) 1,3,5-Trimethylbenzene	13.93	105	616017	21.041	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	31332	19.050	ug/l	91
82) 4-Chlorotoluene	13.94	91	570211	20.429	ug/l	97
83) tert-Butylbenzene	14.19	119	701834	21.506	ug/l	98
84) 1,2,4-Trimethylbenzene	14.23	105	621604	20.715	ug/l	93
85) sec-Butylbenzene	14.37	105	766553	21.612	ug/l	100
86) p-Isopropyltoluene	14.48	119	695395	21.431	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	388926	23.143	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	360054	21.331	ug/l	98
89) n-Butylbenzene	14.80	91	636520	20.959	ug/l	96
90) Hexachloroethane	15.01	117	186138	21.335	ug/l	99
91) 1,2-Dichlorobenzene	14.81	146	306458	21.314	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25494	23.000	ug/l #	65

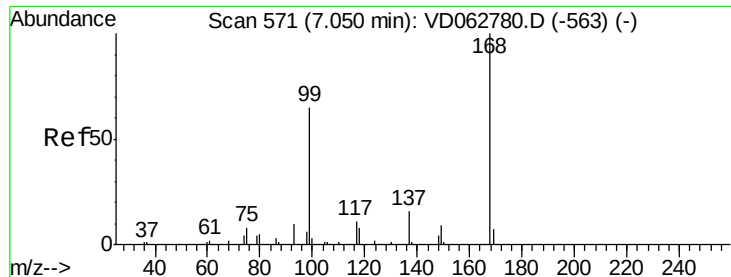
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070119\
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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	226332	20.151	ug/l	99
94) Hexachlorobutadiene	16.03	225	185949	21.671	ug/l	98
95) Naphthalene	16.12	128	322179	20.465	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	174589	20.231	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

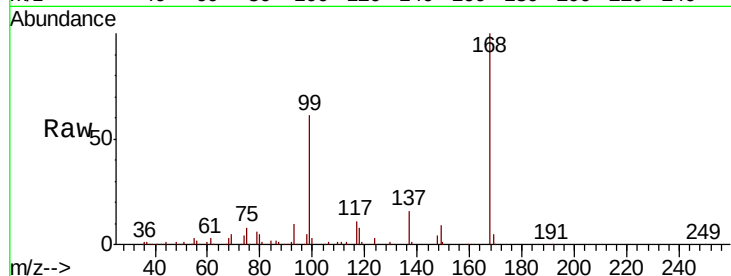
ClientSampleId :

Tot Ion:168 Resp: 876023

Ion Ratio Lower Upper

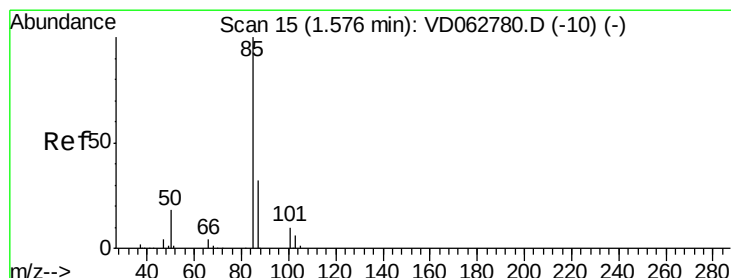
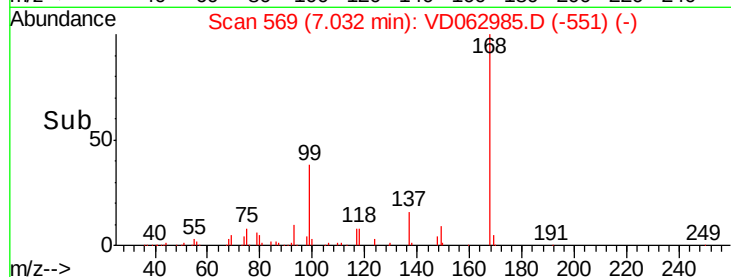
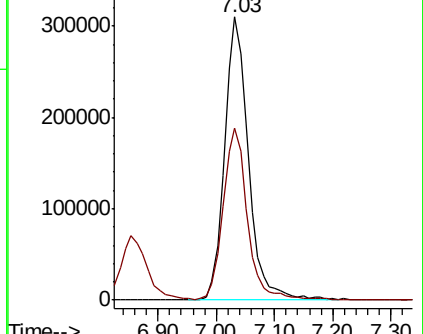
168 100

99 61.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 22.231 ug/l

RT: 1.57 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD062985.D

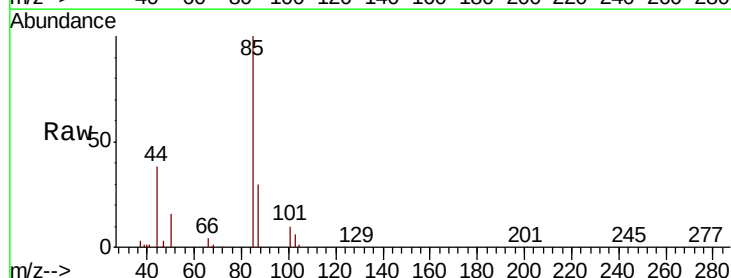
Acq: 1 Jul 2019 12:58

Tgt Ion: 85 Resp: 252007

Ion Ratio Lower Upper

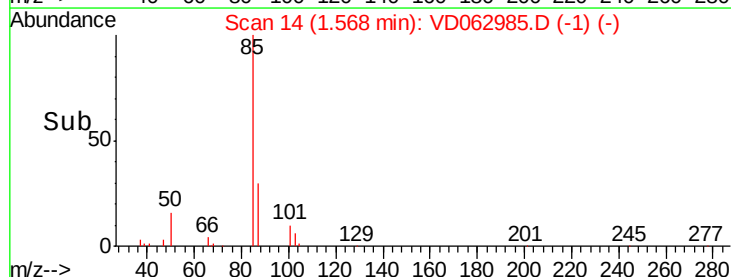
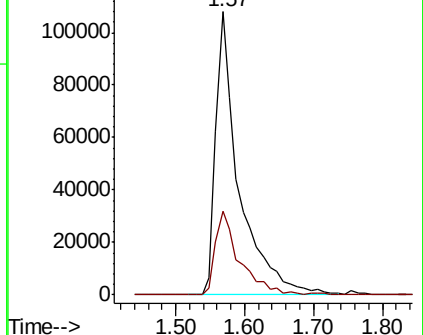
85 100

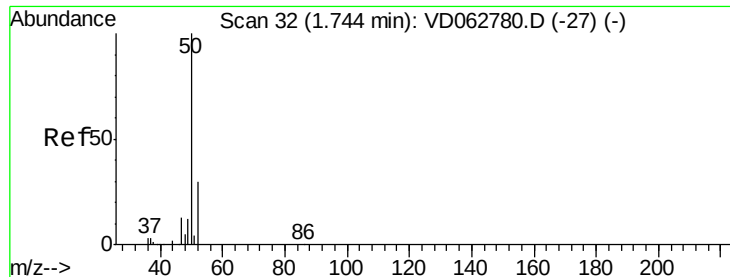
87 29.6 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.232 ug/l

RT: 1.75 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

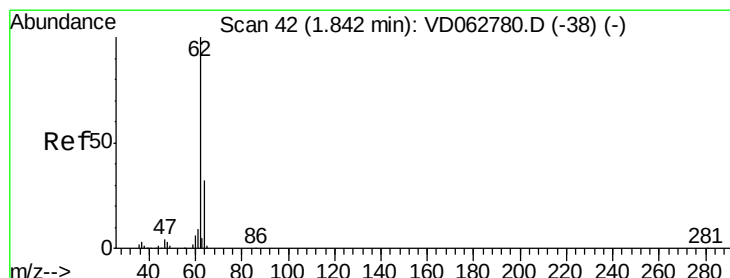
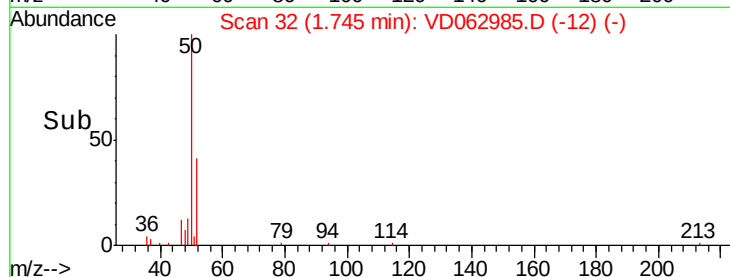
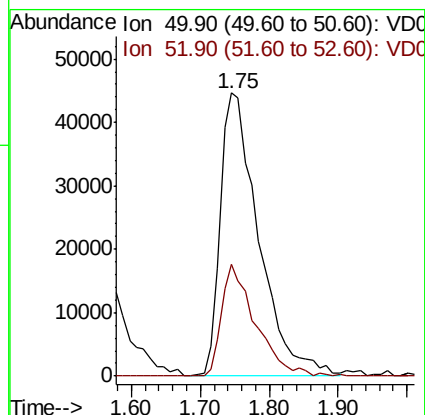
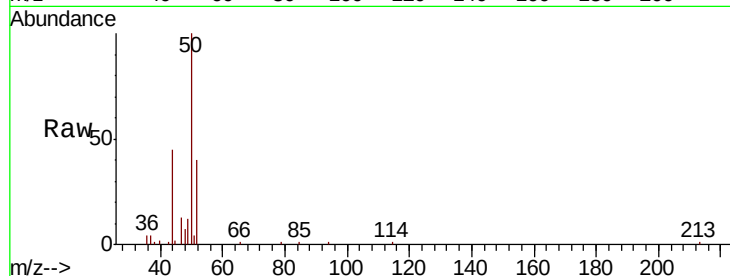
ClientSampled :

Tot Ion: 50 Resp: 172486

Ion Ratio Lower Upper

50 100

52 39.7 23.6 35.4#



#4

Vinyl Chloride

Concen: 21.025 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD062985.D

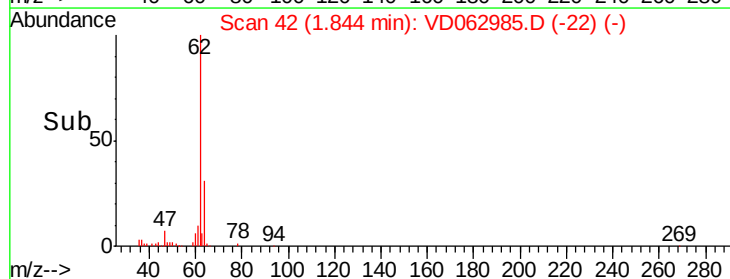
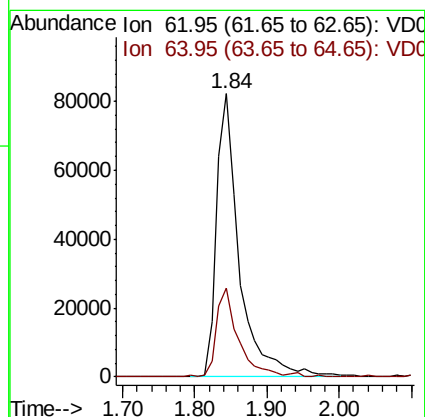
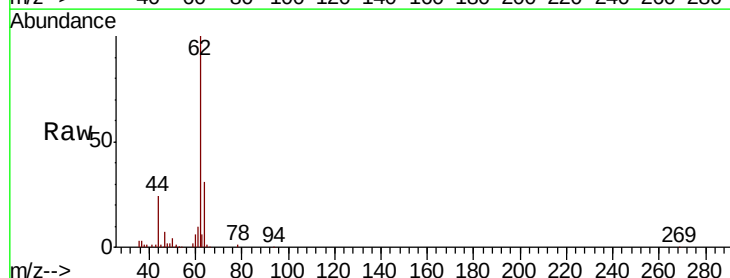
Acq: 1 Jul 2019 12:58

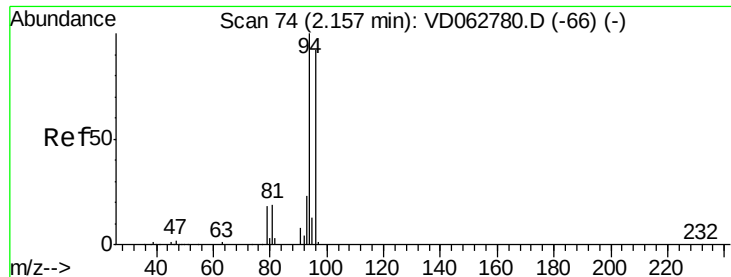
Tgt Ion: 62 Resp: 177725

Ion Ratio Lower Upper

62 100

64 31.2 25.6 38.4





#5

Bromomethane

Concen: 16.128 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

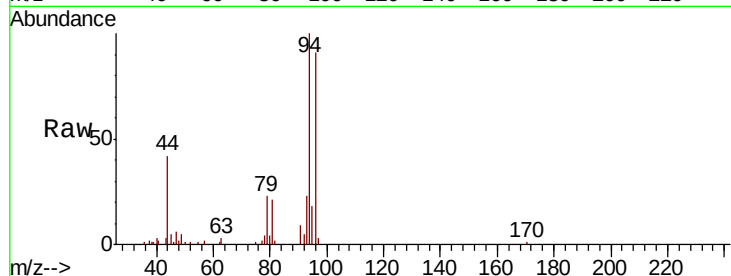
Tot Ion: 94 Resp: 63844

Ion Ratio Lower Upper

94 100

96 91.3 73.4 110.2

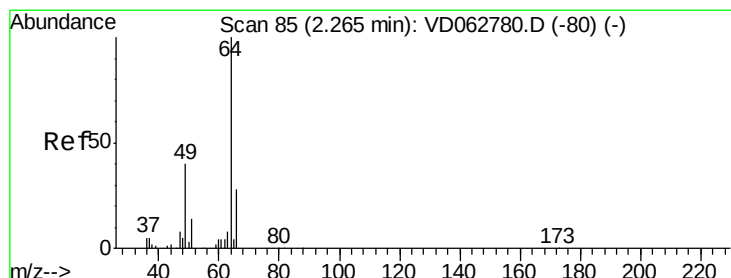
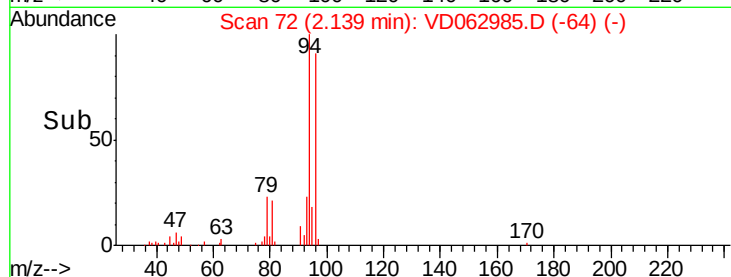
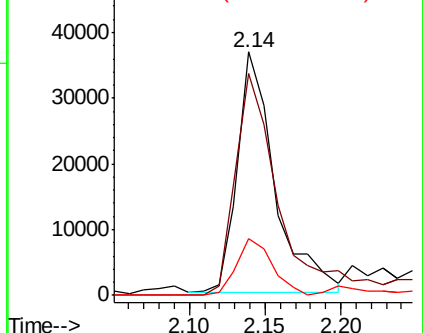
93 23.2 18.2 27.4



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: 20.659 ug/l

RT: 2.25 min Scan# 83

Delta R.T. -0.02 min

Lab File: VD062985.D

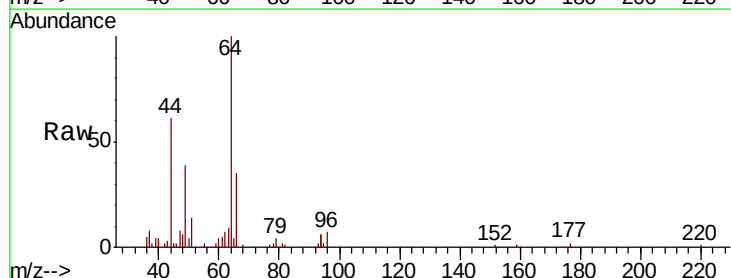
Acq: 1 Jul 2019 12:58

Tgt Ion: 64 Resp: 79060

Ion Ratio Lower Upper

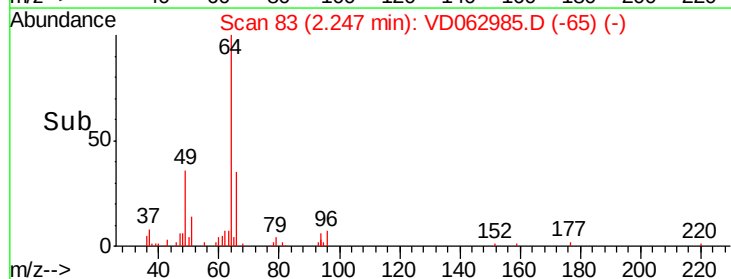
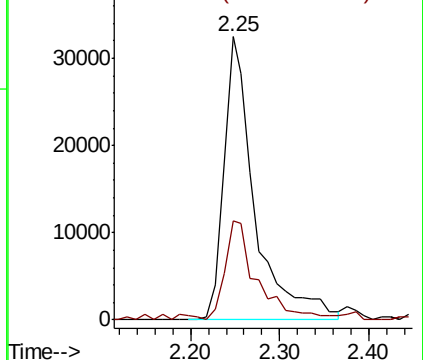
64 100

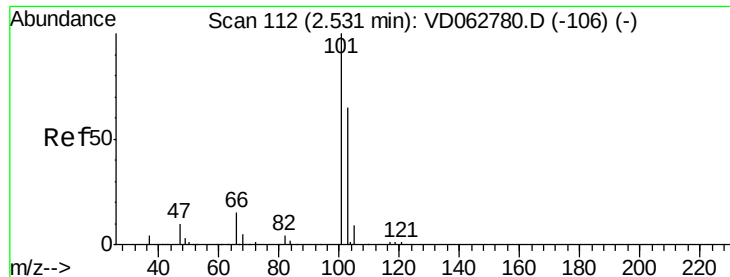
66 35.0 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



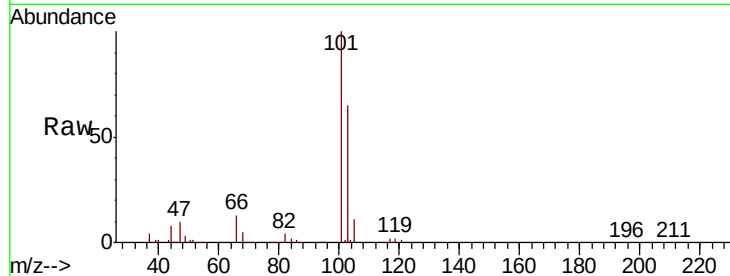


#7

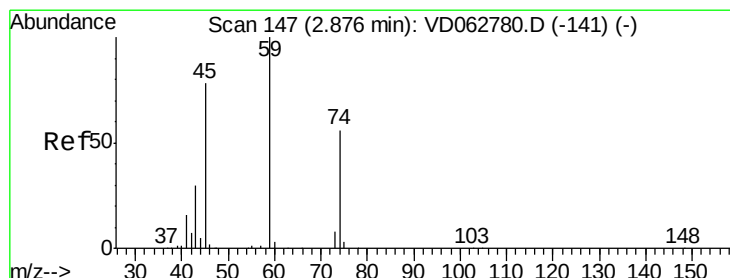
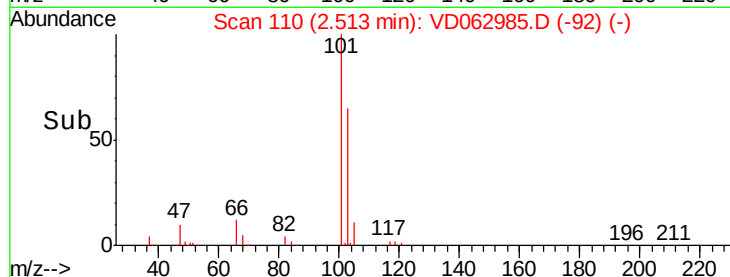
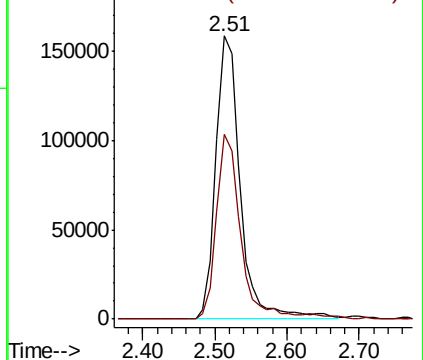
Trichlorofluoromethane
 Concen: 21.737 ug/l
 RT: 2.51 min Scan# 110
 Delta R.T. -0.02 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:101 Resp: 371850
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.8 77.8



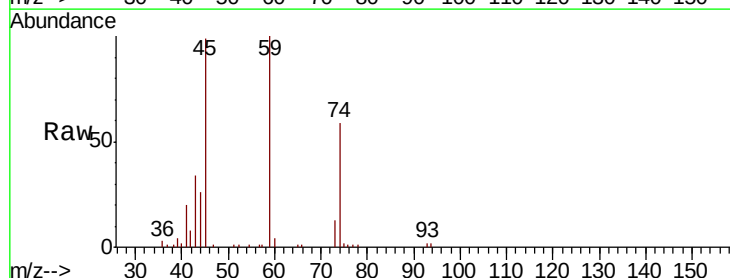
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



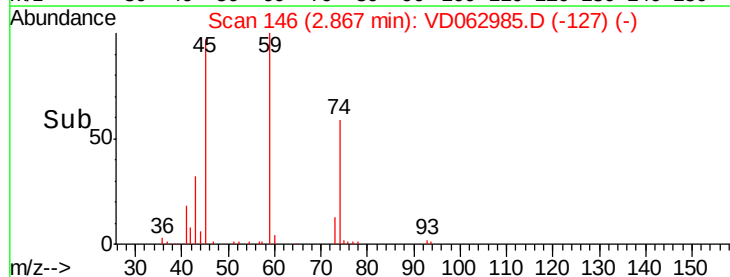
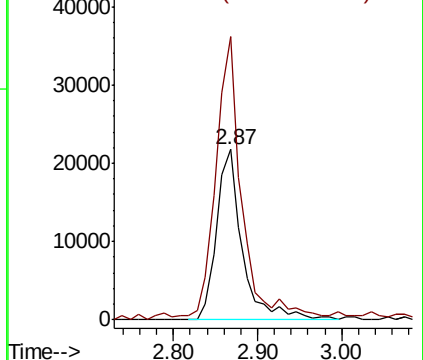
#8

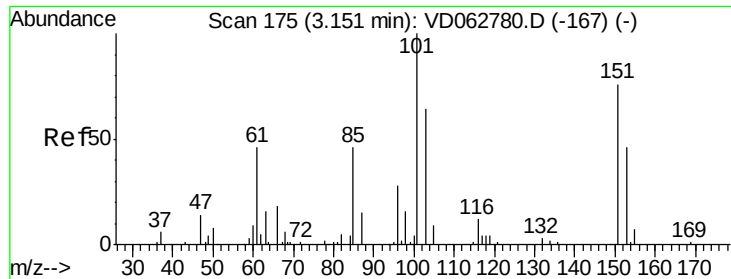
Diethyl Ether
 Concen: 21.311 ug/l
 RT: 2.87 min Scan# 146
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion: 74 Resp: 46322
 Ion Ratio Lower Upper
 74 100
 45 166.2 70.2 210.6



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.633 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

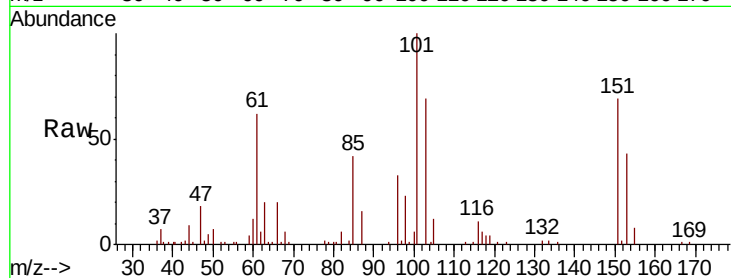
Tot Ion:101 Resp: 181957

Ion Ratio Lower Upper

101 100

85 41.7 37.0 55.4

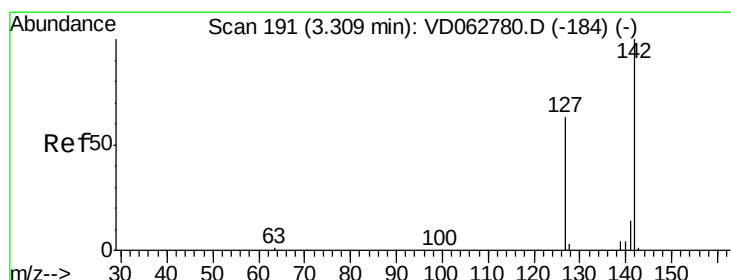
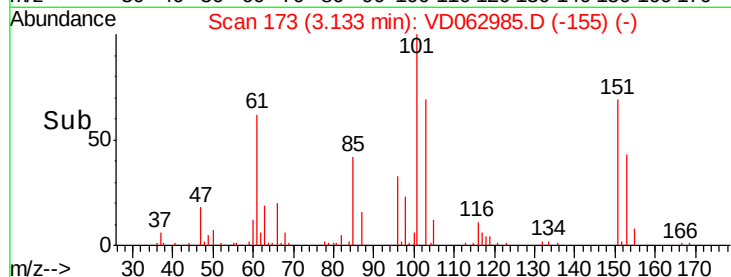
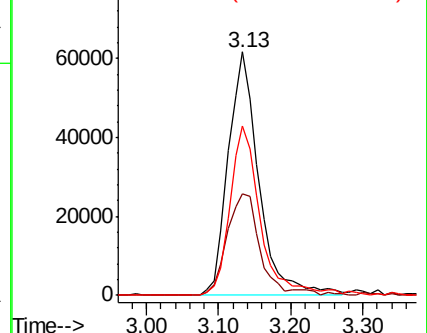
151 69.4 60.5 90.7



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: 18.662 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

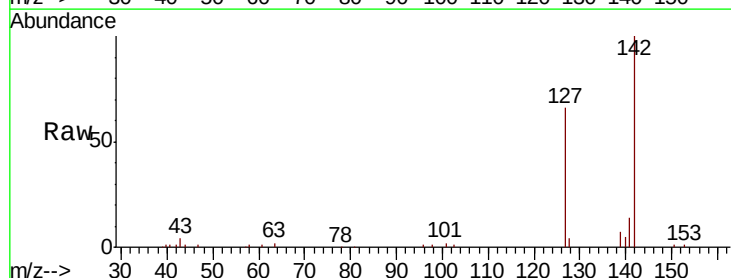
Tgt Ion:142 Resp: 228183

Ion Ratio Lower Upper

142 100

127 66.1 50.1 75.1

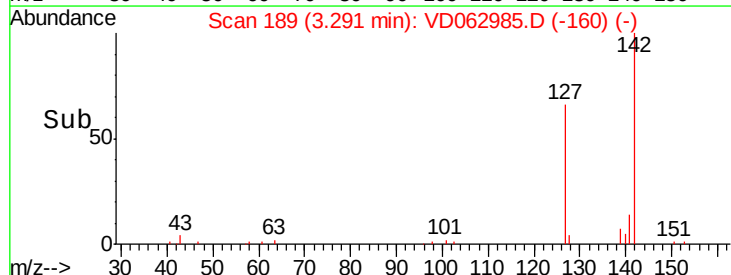
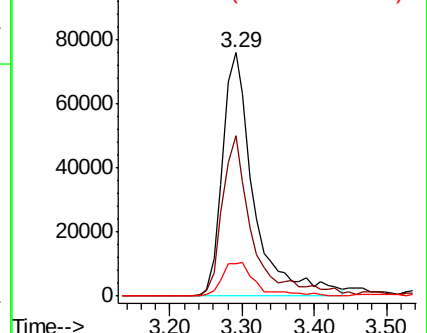
141 13.5 11.0 16.4

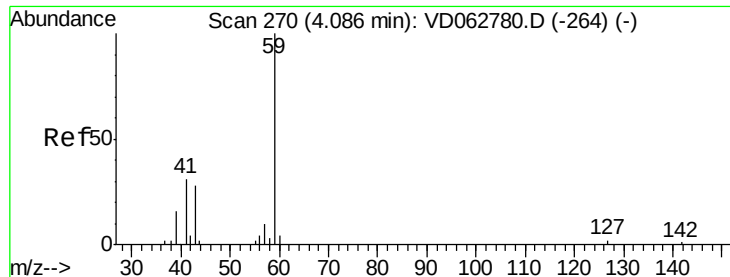


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



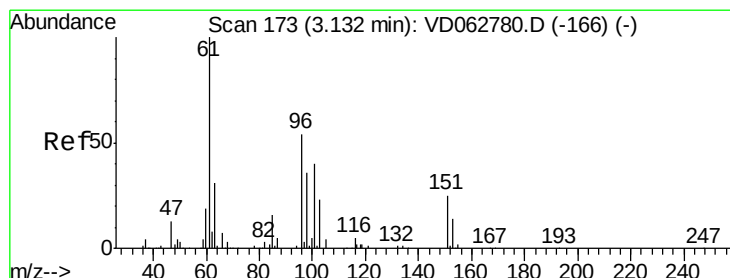
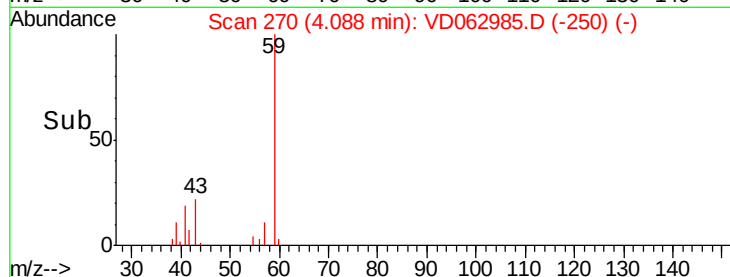
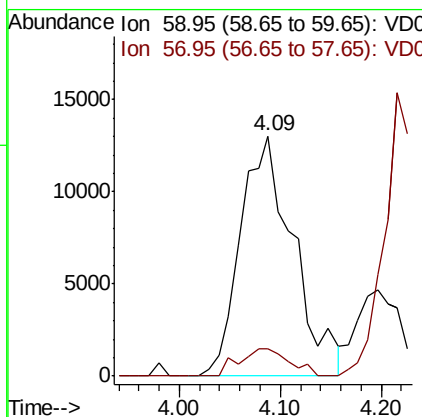
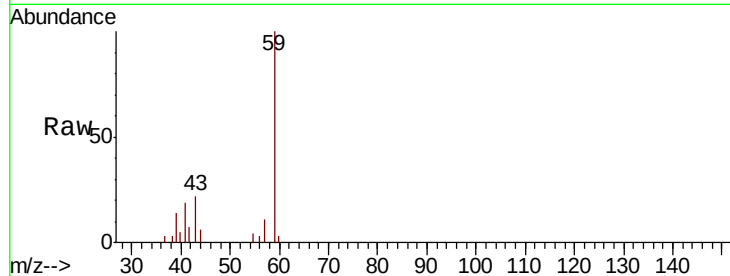


#11

Tert butyl alcohol
 Concen: 109.524 ug/l
 RT: 4.09 min Scan# 270
 Delta R.T. 0.00 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Instrument :
 MSVOA_D
 ClientSampleId :

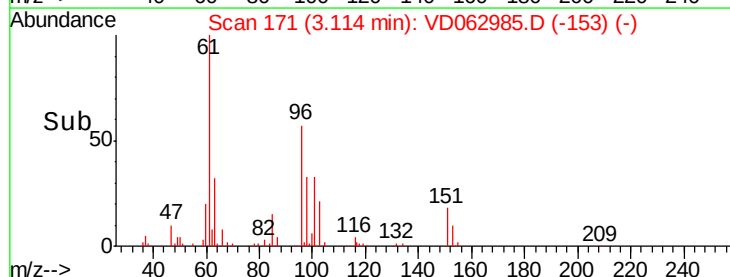
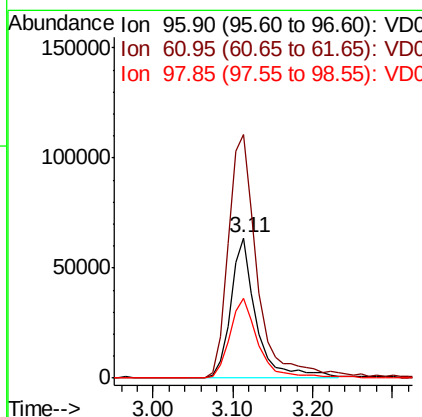
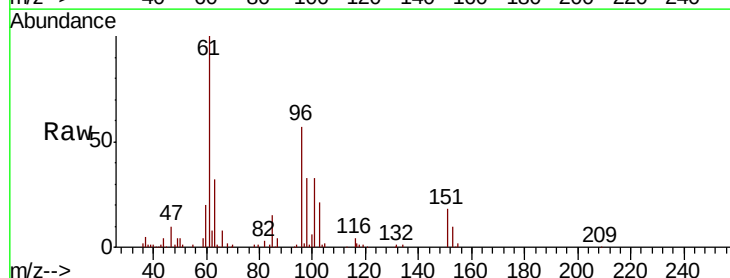
Tot Ion: 59 Resp: 47499
 Ion Ratio Lower Upper
 59 100
 57 11.5 6.6 10.0#

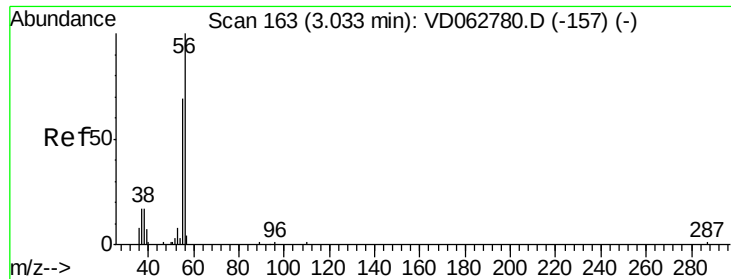


#12

1,1-Dichloroethene
 Concen: 20.529 ug/l
 RT: 3.11 min Scan# 171
 Delta R.T. -0.02 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion: 96 Resp: 142725
 Ion Ratio Lower Upper
 96 100
 61 174.0 147.1 220.7
 98 56.6 52.6 79.0





#13

Acrolein

Concen: 74.576 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

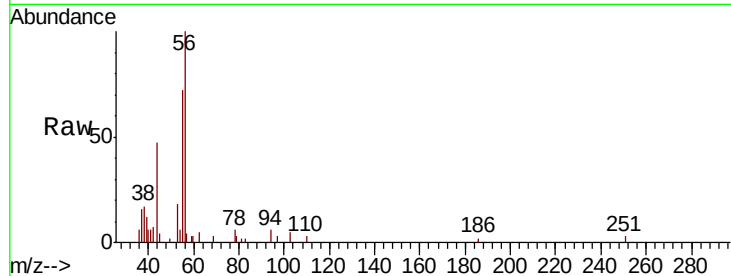
ClientSampled :

Tot Ion: 56 Resp: 33018

Ion Ratio Lower Upper

56 100

55 71.7 55.4 83.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.02

15000

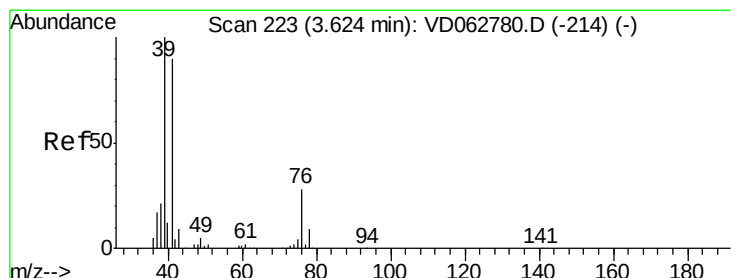
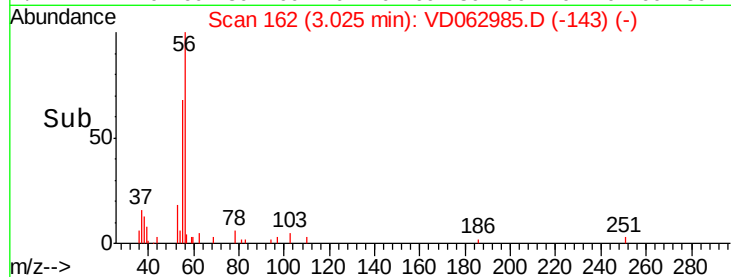
10000

5000

0

Time-->

2.90 3.00 3.10



#14

Allyl chloride

Concen: 19.941 ug/l

RT: 3.61 min Scan# 221

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

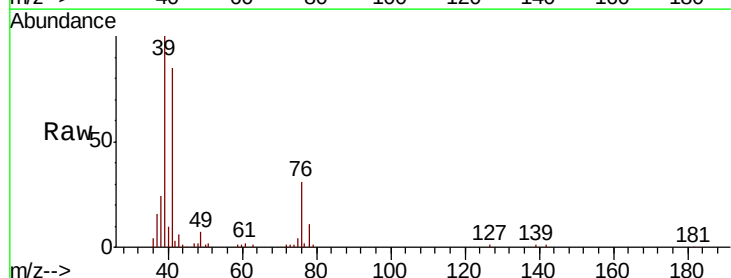
Tgt Ion: 41 Resp: 204851

Ion Ratio Lower Upper

41 100

39 117.2 88.8 133.2

76 36.7 26.7 40.1



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

100000

80000

60000

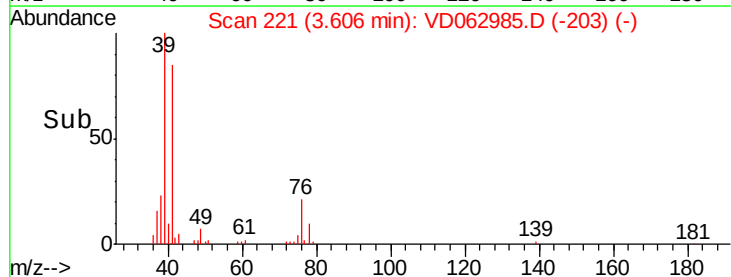
40000

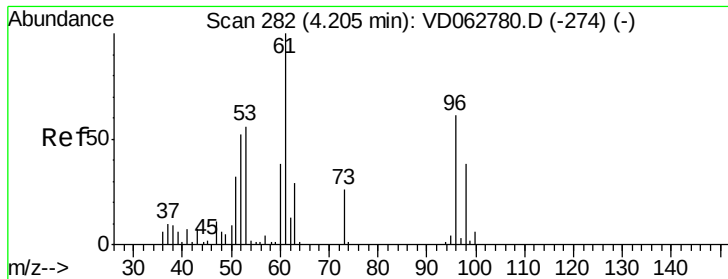
20000

0

Time-->

3.50 3.60 3.70





#15

Acrylonitrile

Concen: 104.495 ug/l

RT: 4.20 min Scan# 281

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

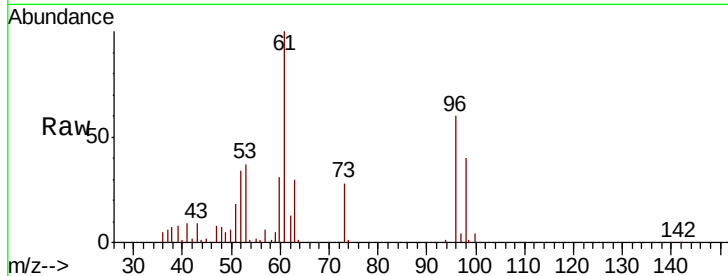
Tot Ion: 53 Resp: 106485

Ion Ratio Lower Upper

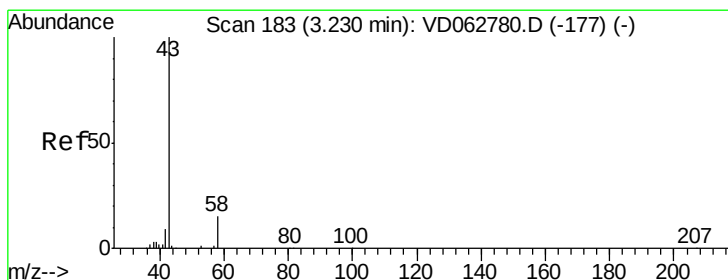
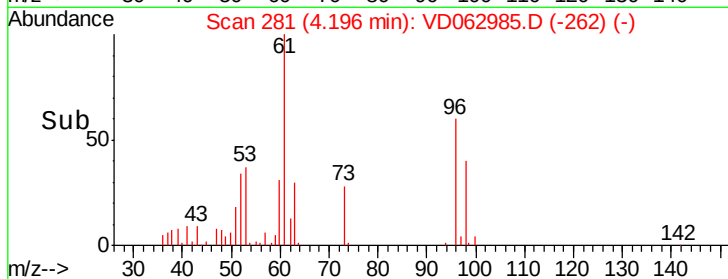
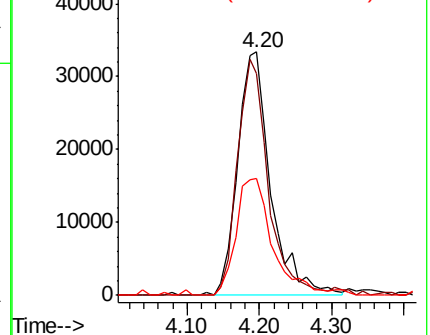
53 100

52 91.2 73.3 109.9

51 47.8 44.8 67.2



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



#16

Acetone

Concen: 95.594 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD062985.D

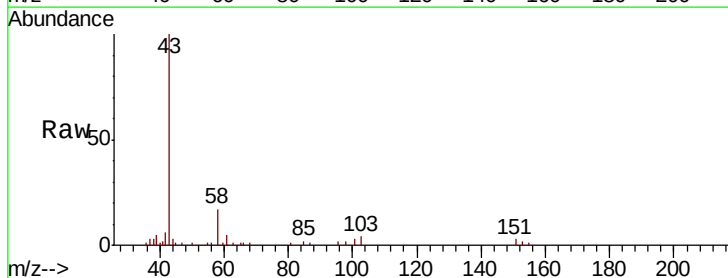
Acq: 1 Jul 2019 12:58

Tgt Ion: 43 Resp: 192938

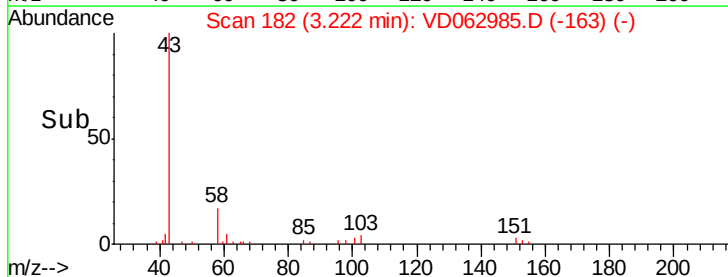
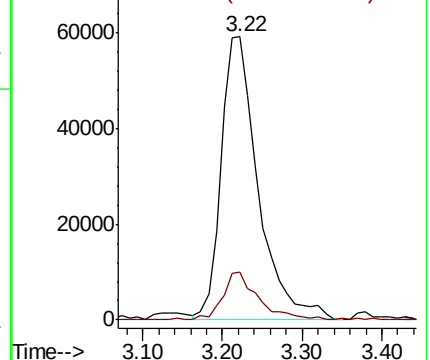
Ion Ratio Lower Upper

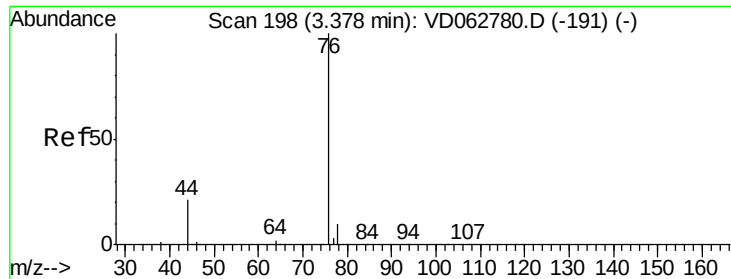
43 100

58 16.9 11.9 17.9



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

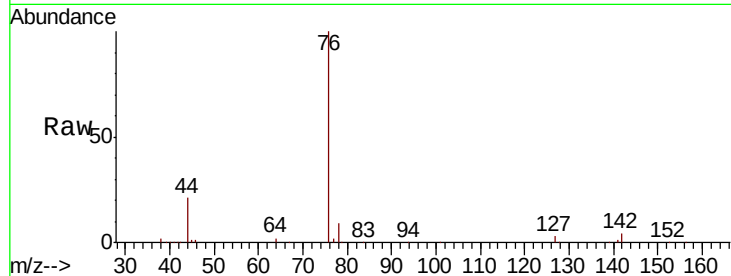




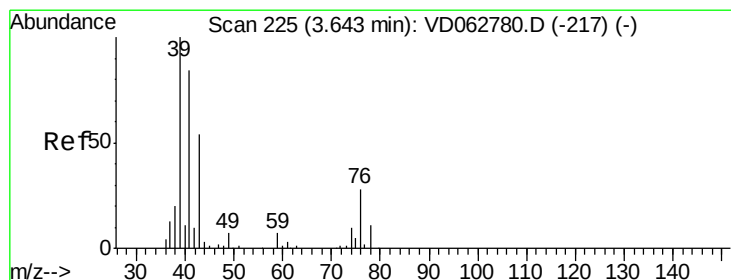
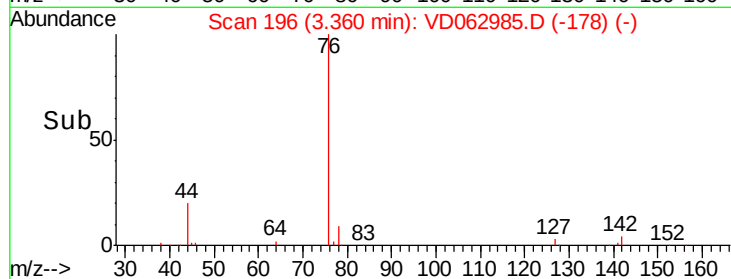
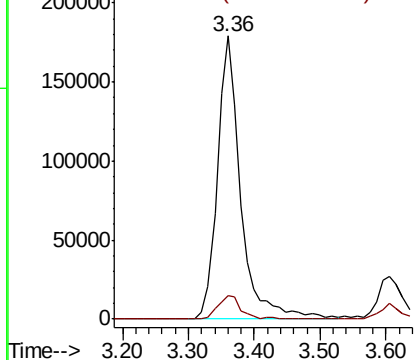
#17
Carbon Disulfide
Concen: 19.756 ug/l
RT: 3.36 min Scan# 196
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 76 Resp: 438966
Ion Ratio Lower Upper
76 100
78 8.5 8.0 12.0

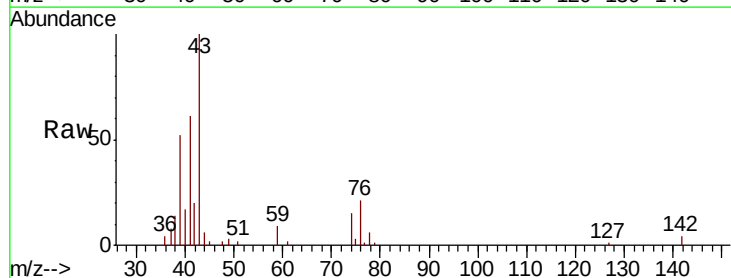


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

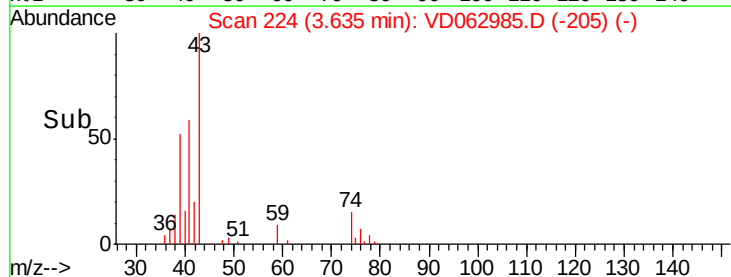
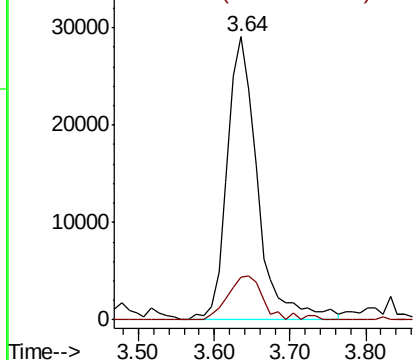


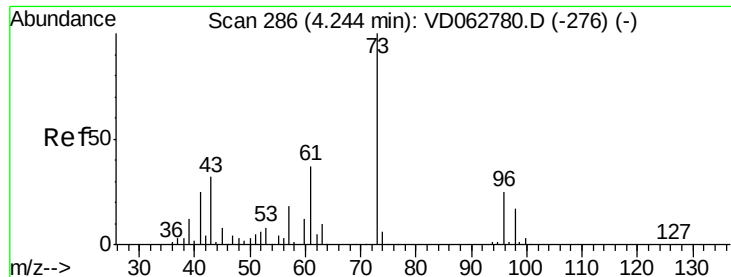
#18
Methyl Acetate
Concen: 28.155 ug/l
RT: 3.64 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 43 Resp: 80933
Ion Ratio Lower Upper
43 100
74 15.0 15.2 22.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

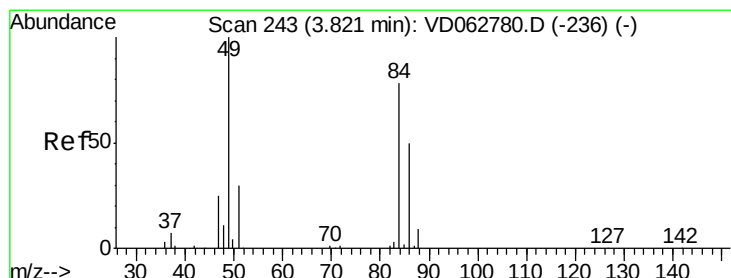
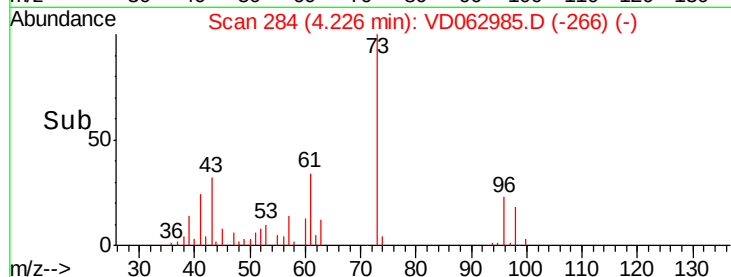
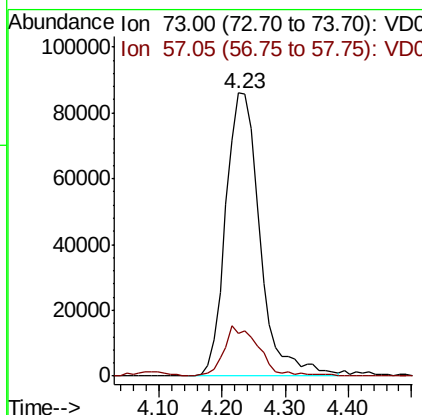
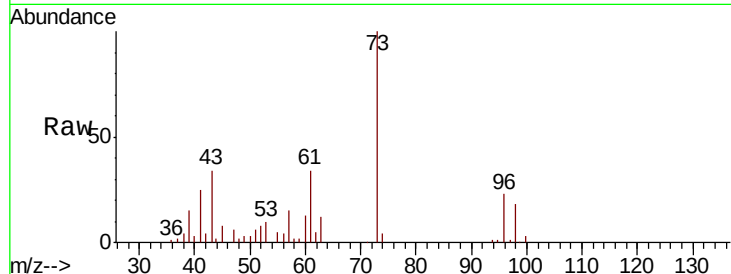




#19
Methyl tert-butyl Ether
Concen: 21.472 ug/l
RT: 4.23 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

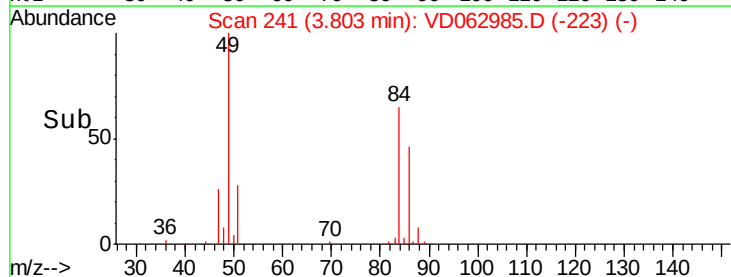
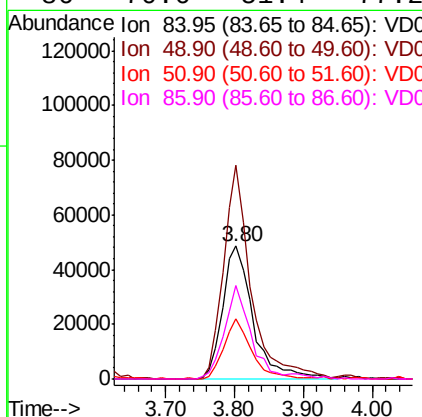
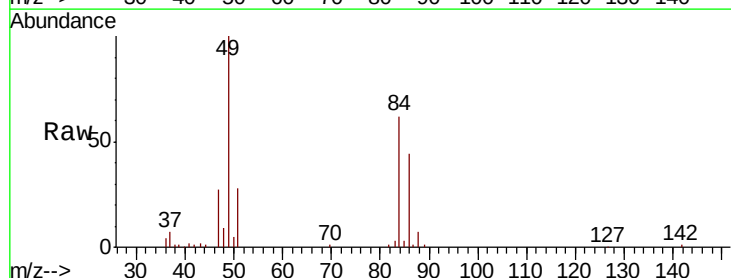
Instrument :
MSVOA_D
ClientSampleId :

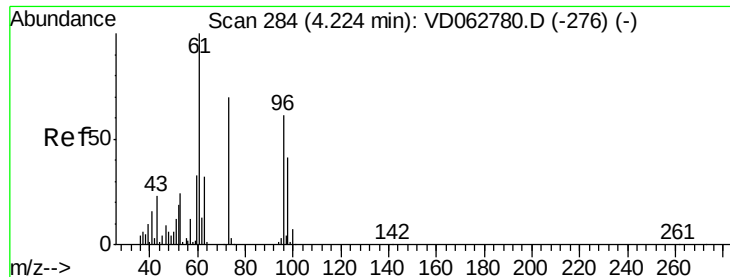
Tot Ion: 73 Resp: 323169
Ion Ratio Lower Upper
73 100
57 15.3 14.3 21.5



#20
Methylene Chloride
Concen: 20.561 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 84 Resp: 149313
Ion Ratio Lower Upper
84 100
49 160.5 102.9 154.3#
51 45.6 31.2 46.8
86 70.6 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 21.183 ug/l

RT: 4.21 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

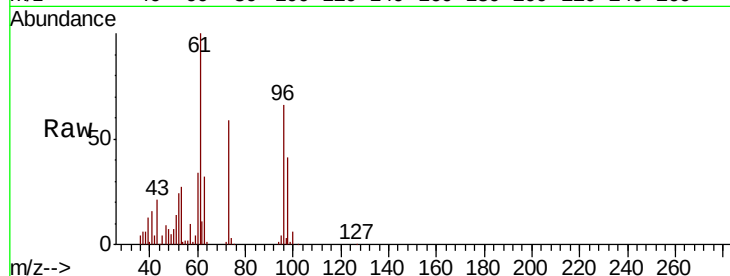
Tot Ion: 96 Resp: 156814

Ion Ratio Lower Upper

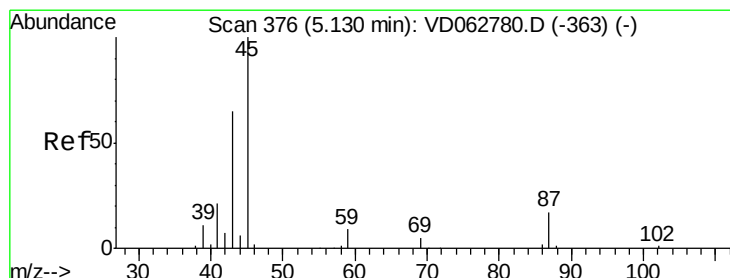
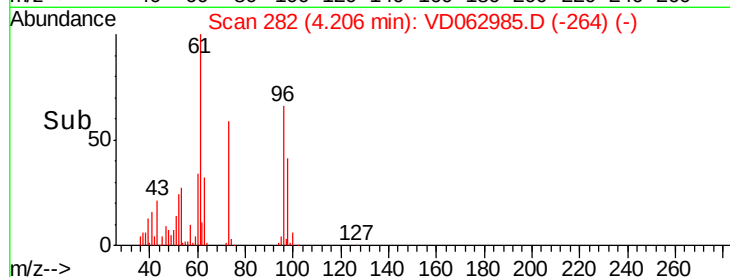
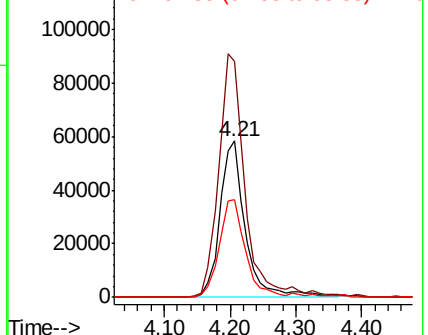
96 100

61 150.5 131.0 196.4

98 62.4 53.2 79.8



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: 21.298 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Tgt Ion: 45 Resp: 444946

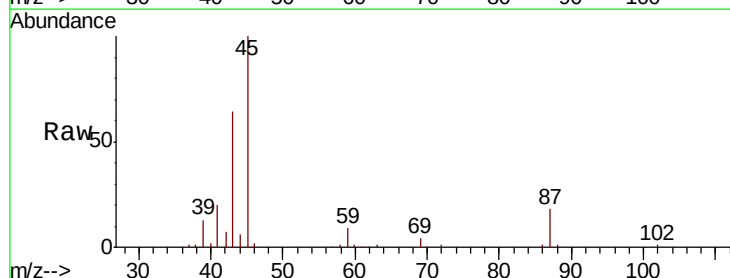
Ion Ratio Lower Upper

45 100

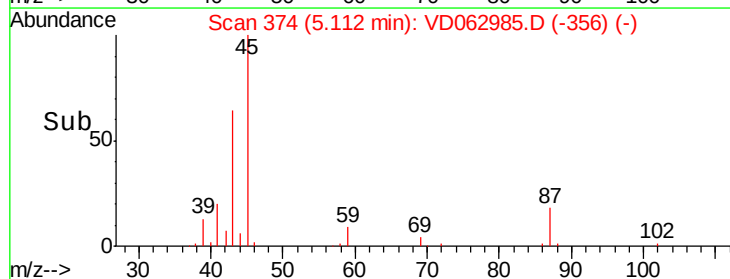
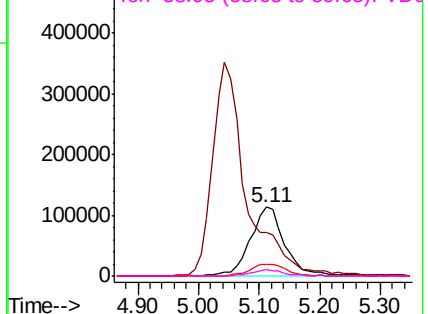
43 63.6 53.4 80.0

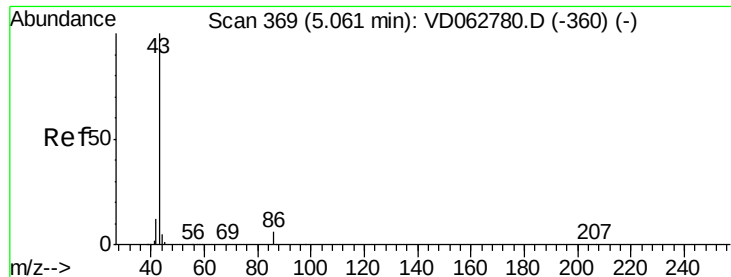
87 17.6 14.6 22.0

59 9.3 7.8 11.8



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: 103.807 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

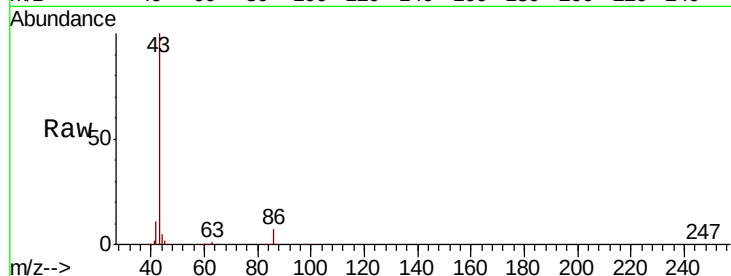
ClientSampled :

Tot Ion: 43 Resp: 1357039

Ion Ratio Lower Upper

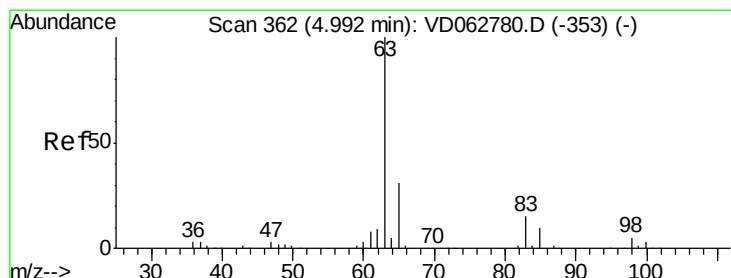
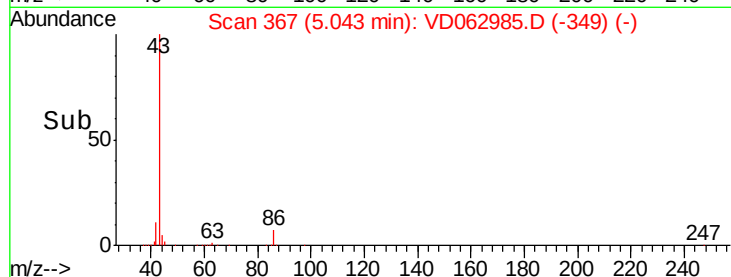
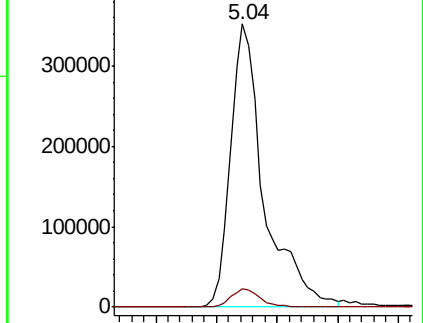
43 100

86 6.7 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.655 ug/l

RT: 4.96 min Scan# 359

Delta R.T. -0.03 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

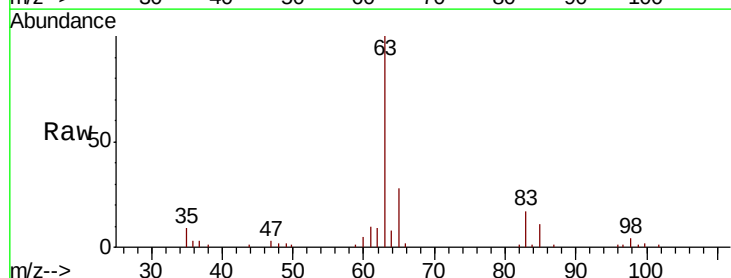
Tgt Ion: 63 Resp: 280957

Ion Ratio Lower Upper

63 100

98 4.4 2.3 6.9

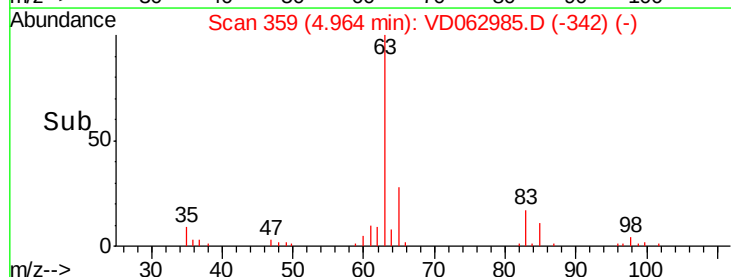
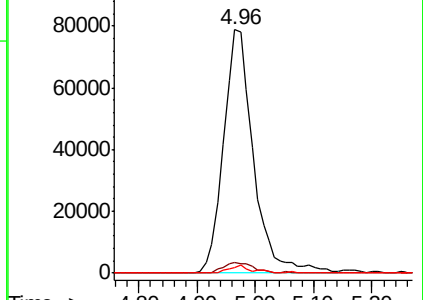
100 2.1 1.7 5.1

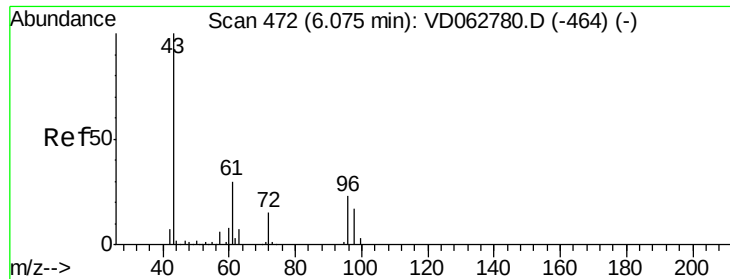


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 105.027 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

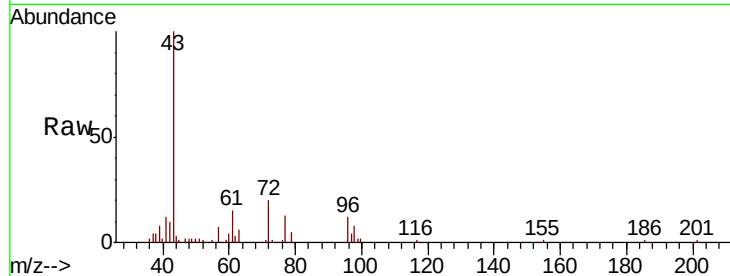
ClientSampleId :

Tot Ion: 43 Resp: 187048

Ion Ratio Lower Upper

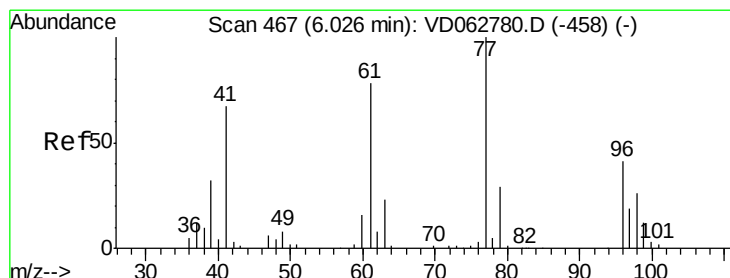
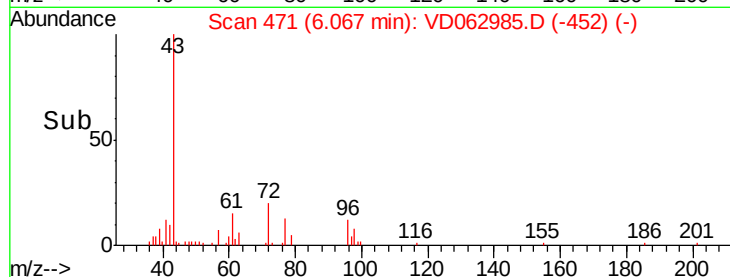
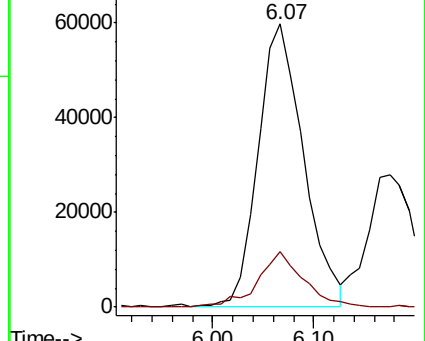
43 100

72 19.5 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.054 ug/l

RT: 6.01 min Scan# 465

Delta R.T. -0.02 min

Lab File: VD062985.D

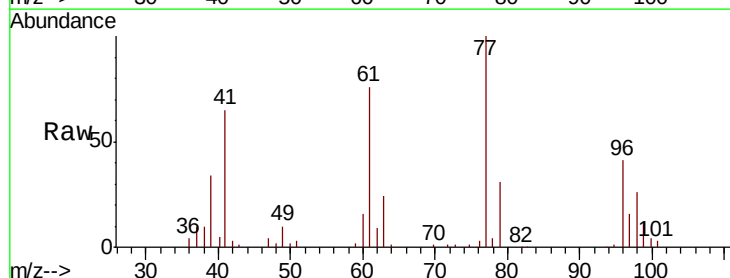
Acq: 1 Jul 2019 12:58

Tgt Ion: 77 Resp: 317961

Ion Ratio Lower Upper

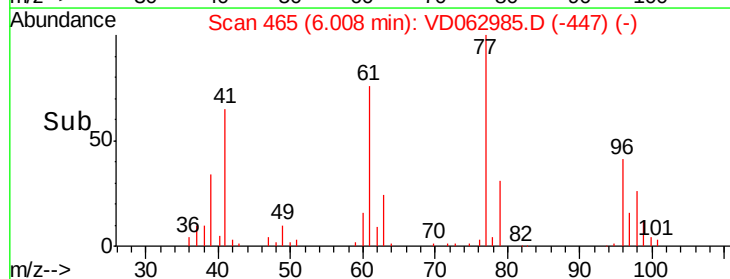
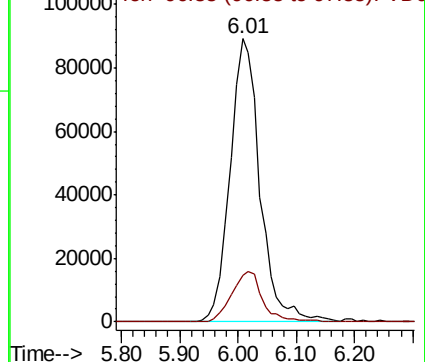
77 100

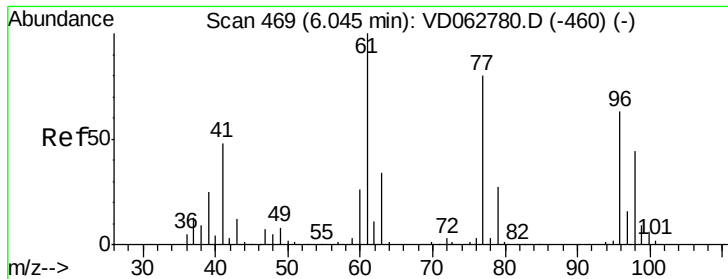
97 16.5 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



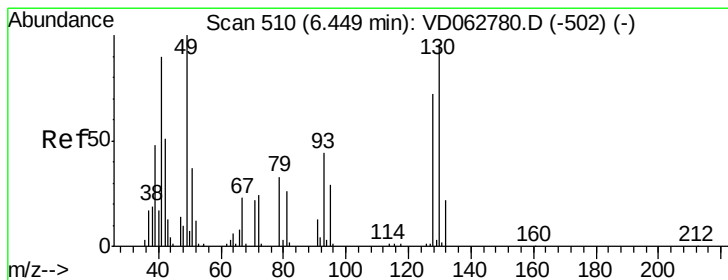
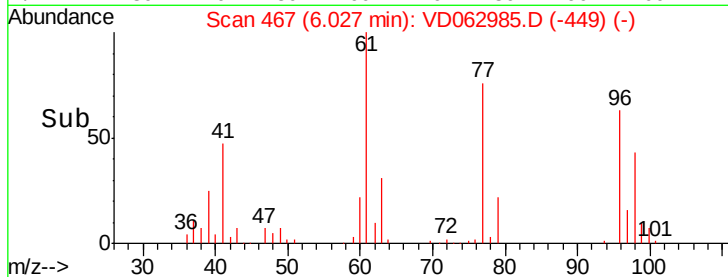
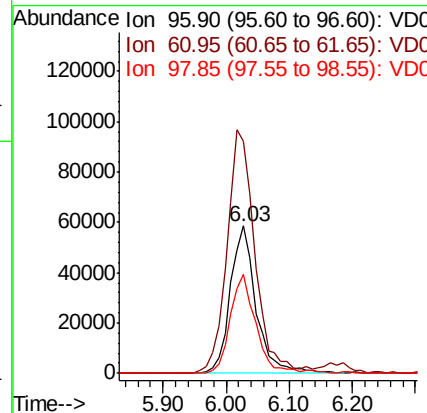
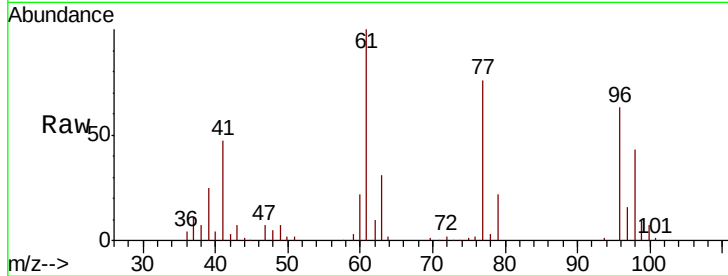


#27

cis-1,2-Dichloroethene
Concen: 21.182 ug/l
RT: 6.03 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampled :

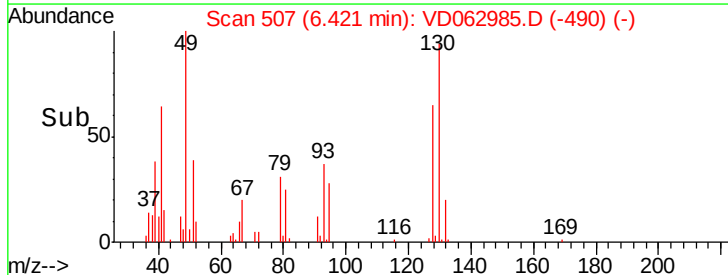
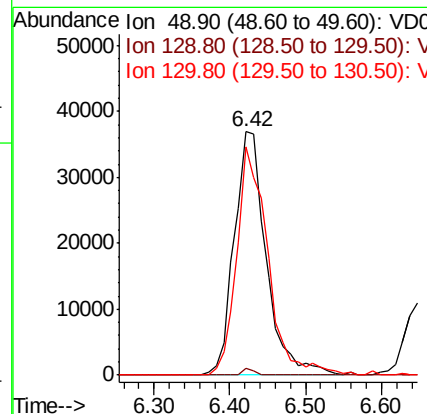
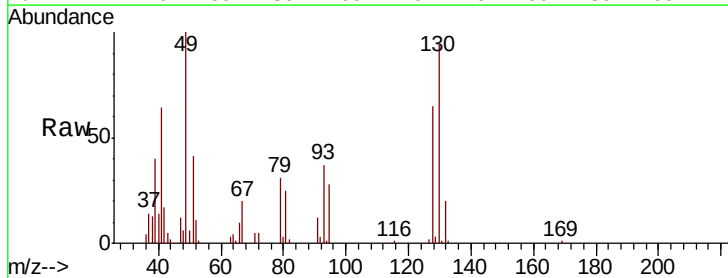
Tot Ion: 96 Resp: 165818
Ion Ratio Lower Upper
96 100
61 158.1 0.0 316.0
98 67.5 0.0 138.4

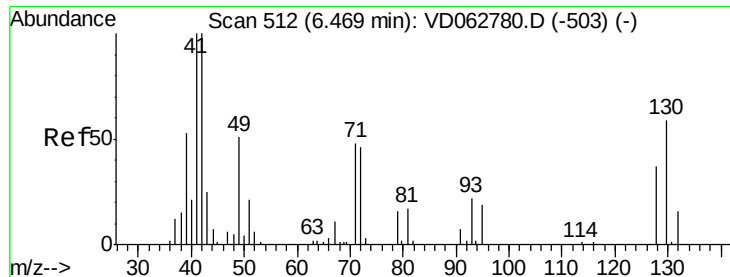


#28

Bromochloromethane
Concen: 22.507 ug/l
RT: 6.42 min Scan# 507
Delta R.T. -0.03 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 49 Resp: 107824
Ion Ratio Lower Upper
49 100
129 2.7 0.0 5.6
130 93.5 76.6 114.8





#29

Tetrahydrofuran

Concen: 107.337 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampled :

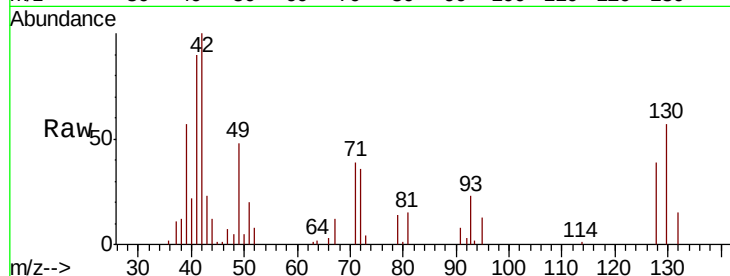
Tot Ion: 42 Resp: 90446

Ion Ratio Lower Upper

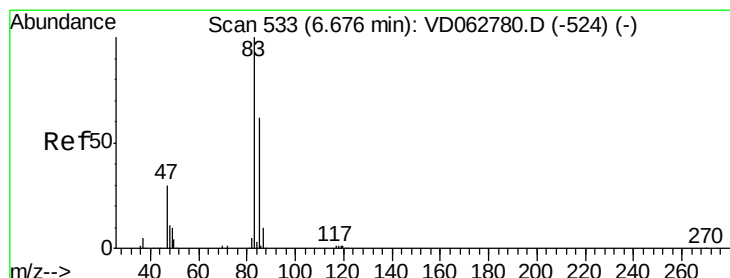
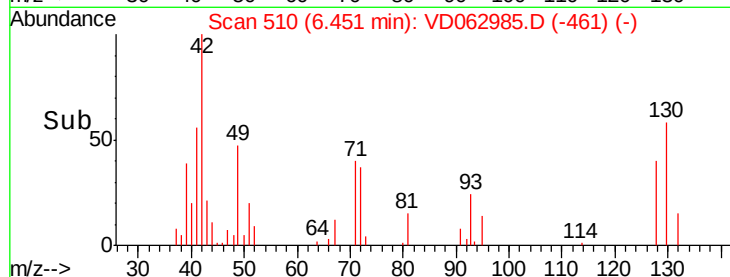
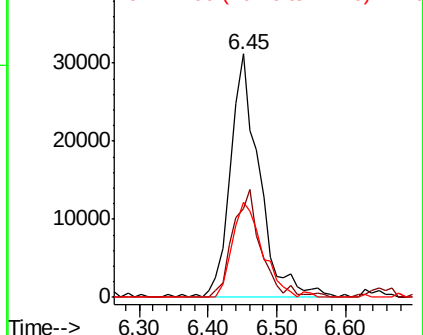
42 100

72 42.7 35.0 52.6

71 40.5 33.3 49.9



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: 21.869 ug/l

RT: 6.65 min Scan# 530

Delta R.T. -0.03 min

Lab File: VD062985.D

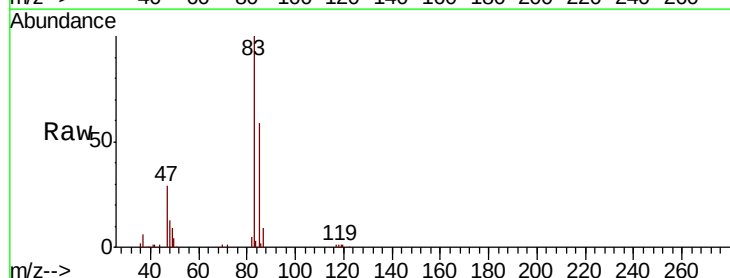
Acq: 1 Jul 2019 12:58

Tgt Ion: 83 Resp: 361765

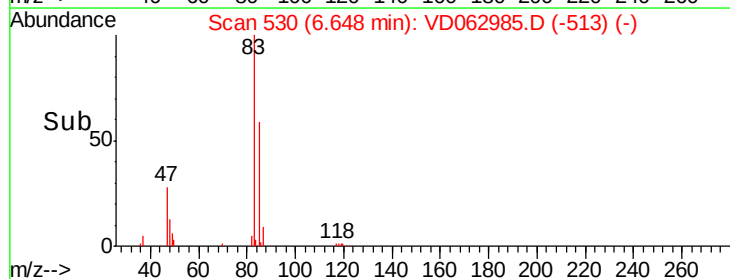
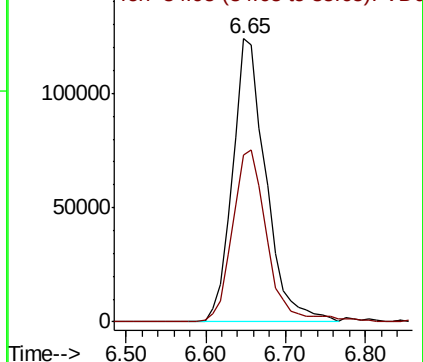
Ion Ratio Lower Upper

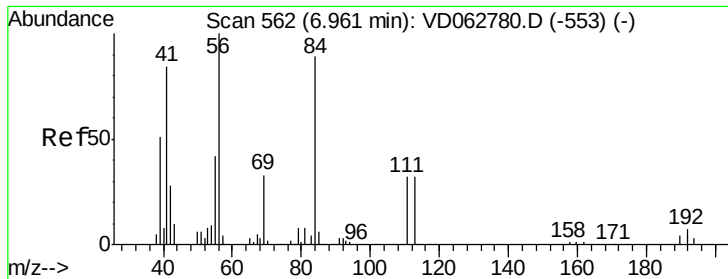
83 100

85 58.8 49.8 74.6



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

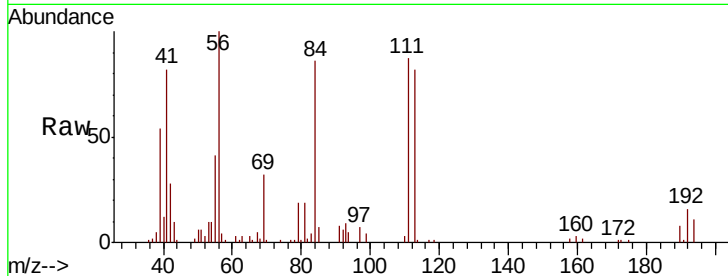




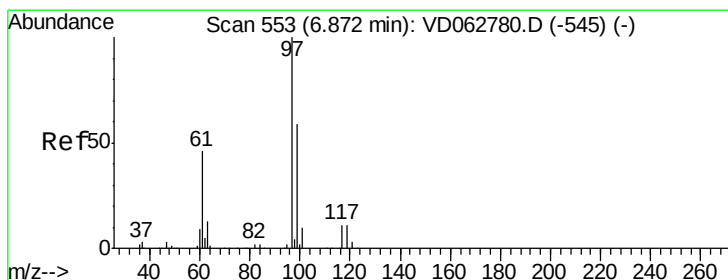
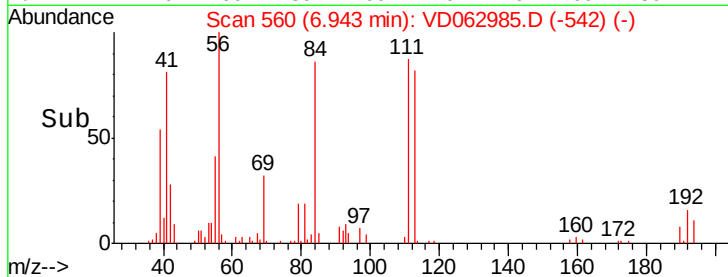
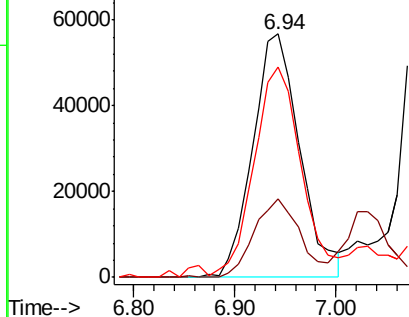
#31
Cyclohexane
Concen: 20.537 ug/l
RT: 6.94 min Scan# 560
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 183642
Ion Ratio Lower Upper
56 100
69 32.4 26.6 39.8
84 86.5 75.5 113.3

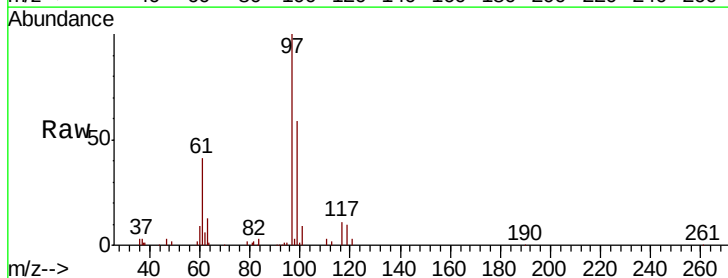


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

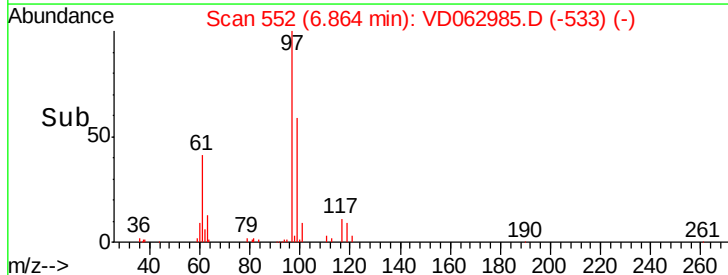
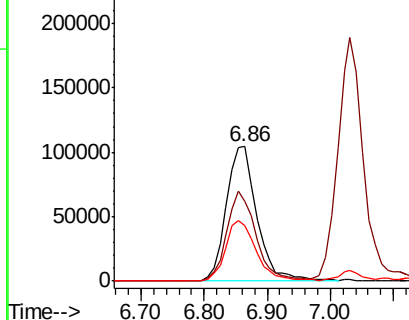


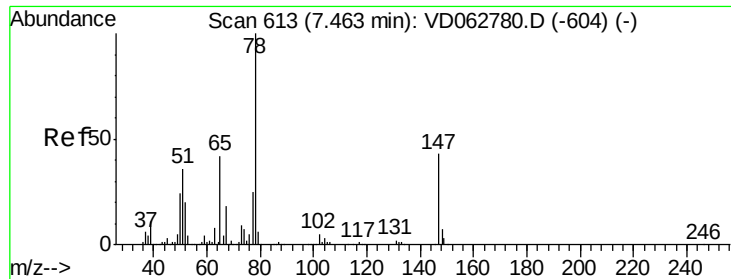
#32
1,1,1-Trichloroethane
Concen: 20.464 ug/l
RT: 6.86 min Scan# 552
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 97 Resp: 352590
Ion Ratio Lower Upper
97 100
99 59.4 47.4 71.2
61 40.9 37.2 55.8



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC

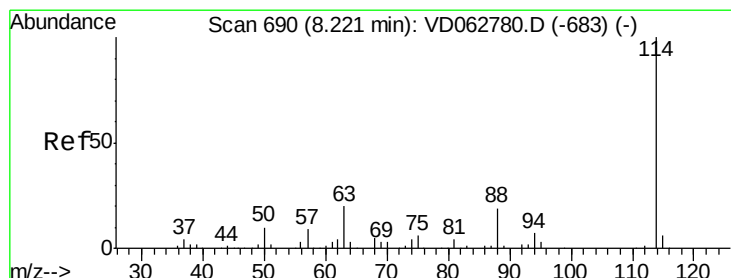
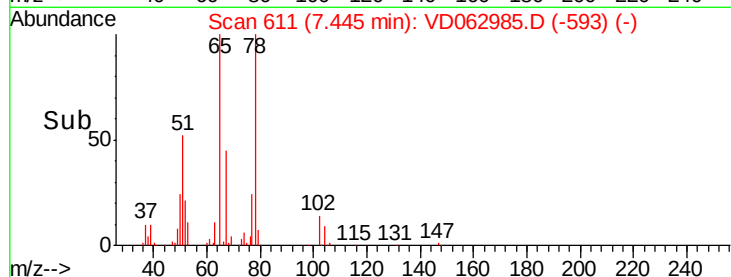
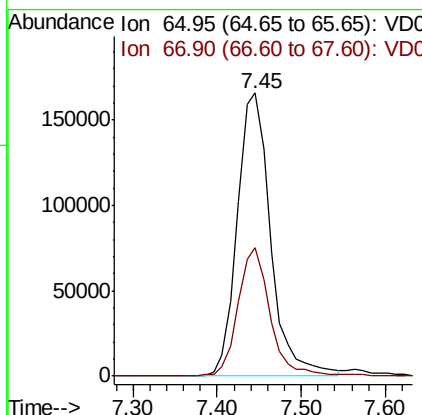
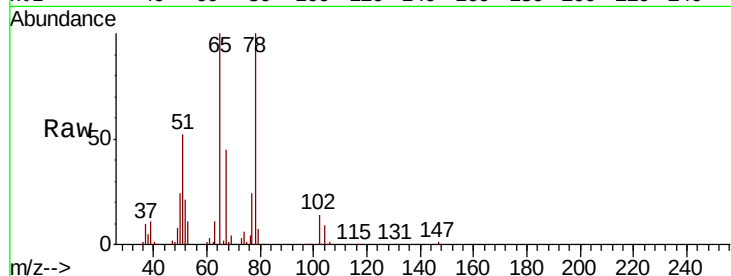




#33
 1,2-Dichloroethane-d4
 Concen: 48.187 ug/l
 RT: 7.45 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

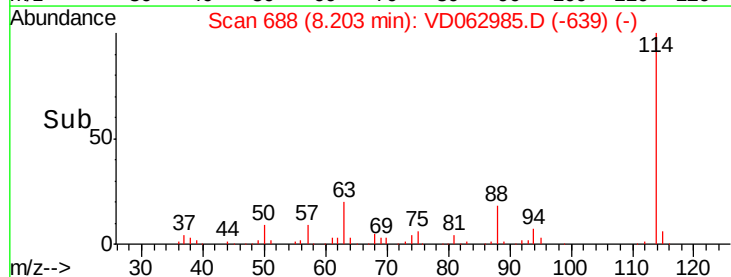
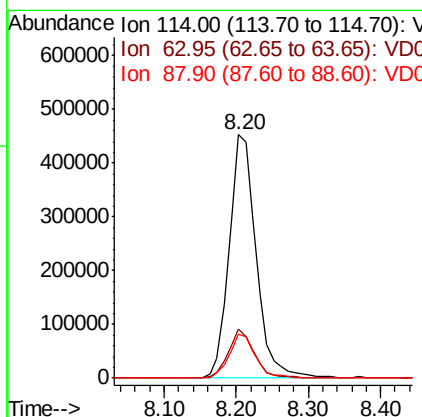
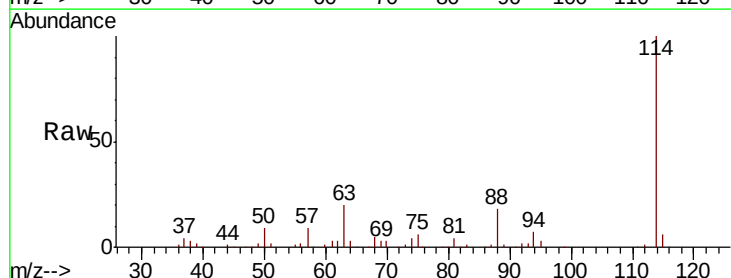
Instrument :
 MSVOA_D
 ClientSampleId :

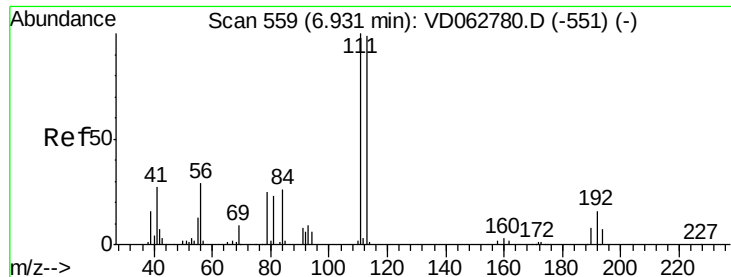
Tot Ion: 65 Resp: 458852
 Ion Ratio Lower Upper
 65 100
 67 45.3 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.02 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion: 114 Resp: 1178560
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 18.3 0.0 38.8





#35

Dibromofluoromethane

Concen: 49.479 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

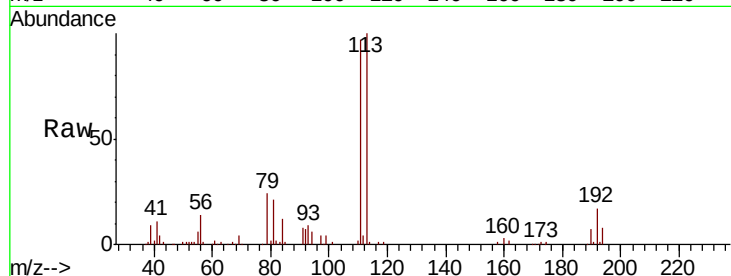
Tot Ion:113 Resp: 491701

Ion Ratio Lower Upper

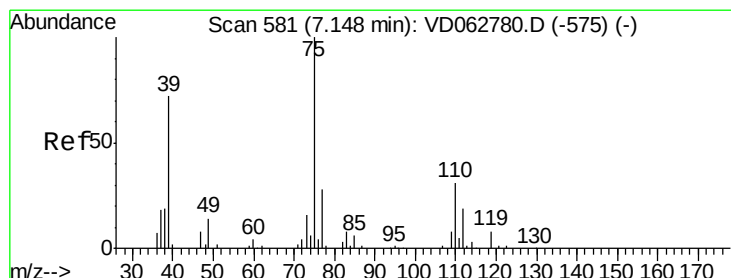
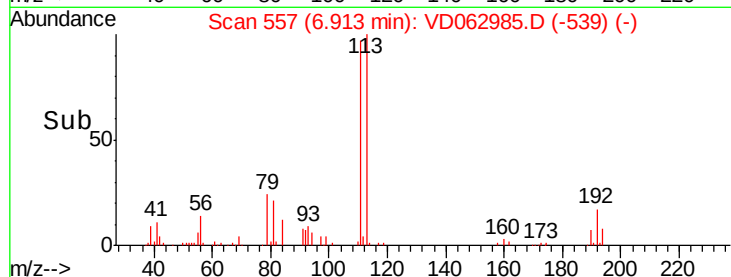
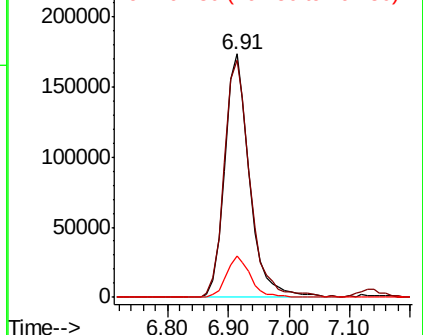
113 100

111 97.3 81.2 121.8

192 16.9 12.9 19.3



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: 21.028 ug/l

RT: 7.13 min Scan# 579

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

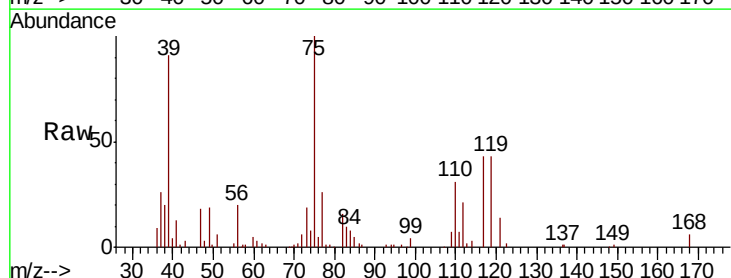
Tgt Ion: 75 Resp: 234604

Ion Ratio Lower Upper

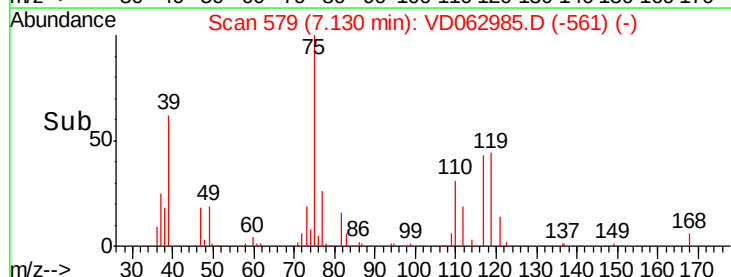
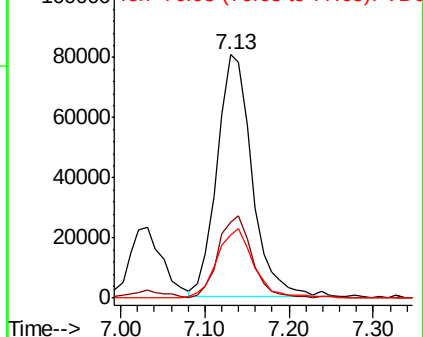
75 100

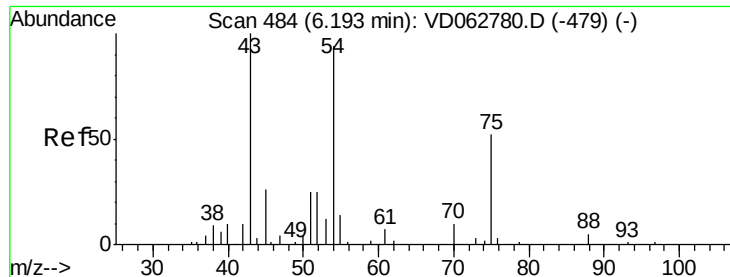
110 31.2 15.0 45.1

77 26.1 22.2 33.2



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

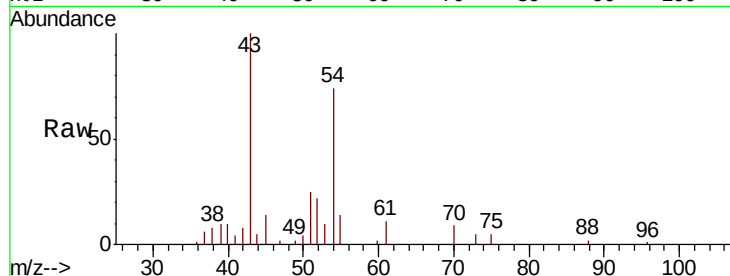




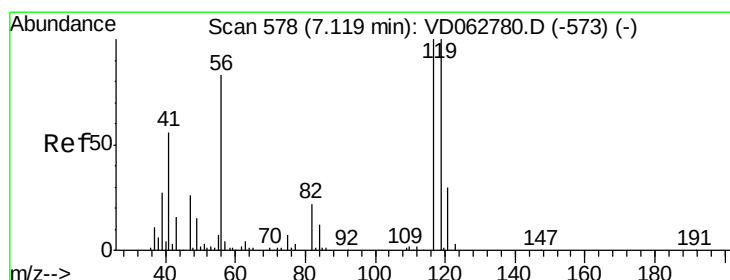
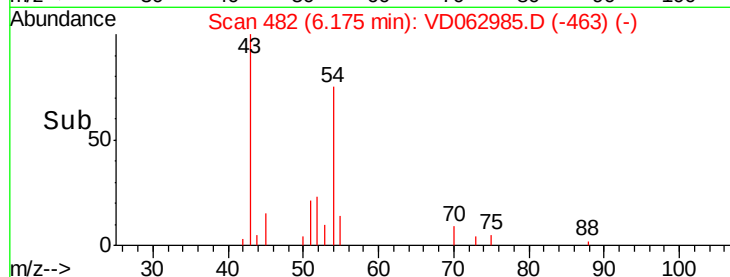
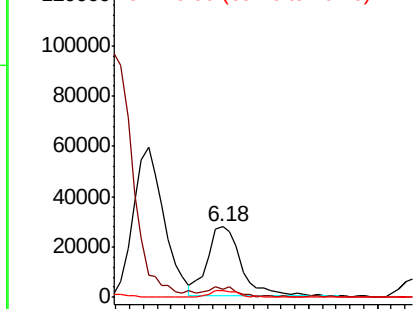
#37
Ethyl Acetate
Concen: 19.334 ug/l
RT: 6.18 min Scan# 482
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 43 Resp: 93777
Ion Ratio Lower Upper
43 100
61 10.9 11.6 17.4#
70 9.2 6.4 9.6

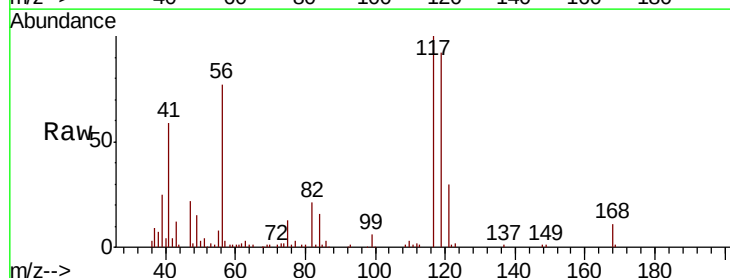


Abundance Ion 42.95 (42.65 to 43.65): VD062780.D (-479) (-)
Ion 60.95 (60.65 to 61.65): VD062780.D (-479) (-)
Ion 70.00 (69.70 to 70.70): VD062780.D (-479) (-)

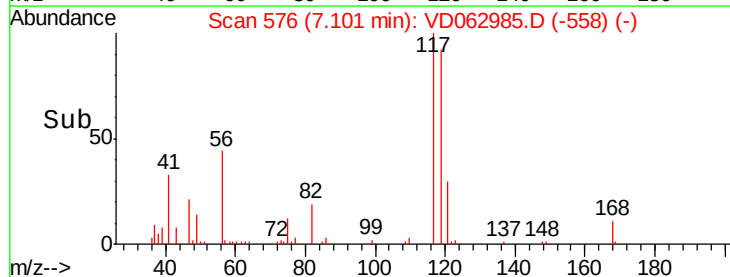
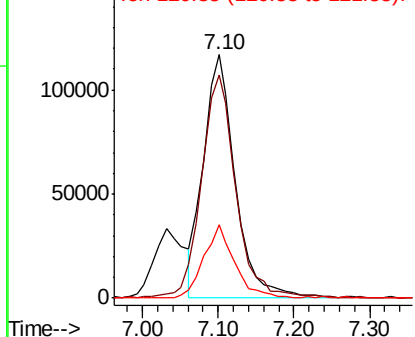


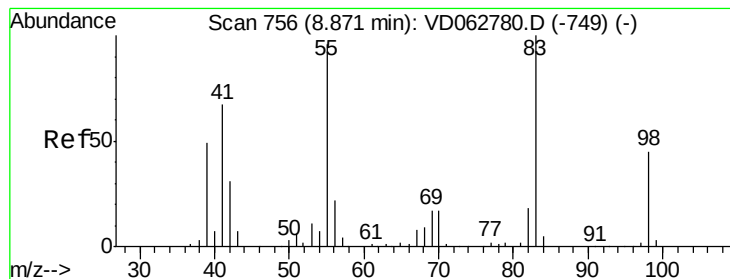
#38
Carbon Tetrachloride
Concen: 20.176 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 117 Resp: 338544
Ion Ratio Lower Upper
117 100
119 91.7 75.4 113.2
121 30.4 22.3 33.5



Abundance Ion 116.85 (116.55 to 117.55): VD062780.D (-573) (-)
Ion 118.85 (118.55 to 119.55): VD062780.D (-573) (-)
Ion 120.85 (120.55 to 121.55): VD062780.D (-573) (-)





#39

Methylvlcyclohexane

Concen: 20.940 ug/l

RT: 8.85 min Scan# 754

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

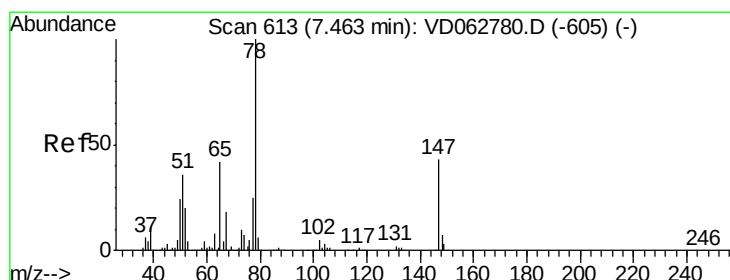
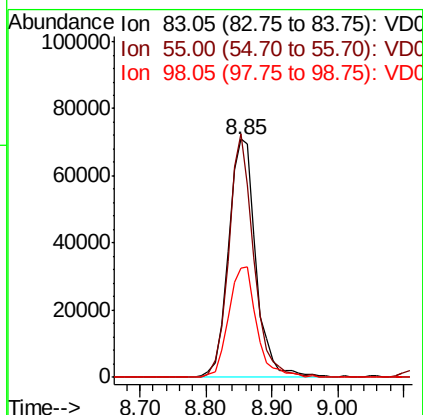
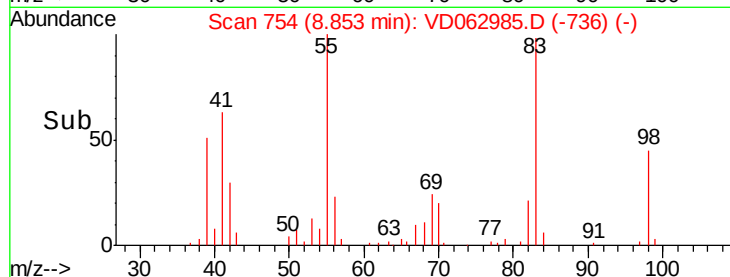
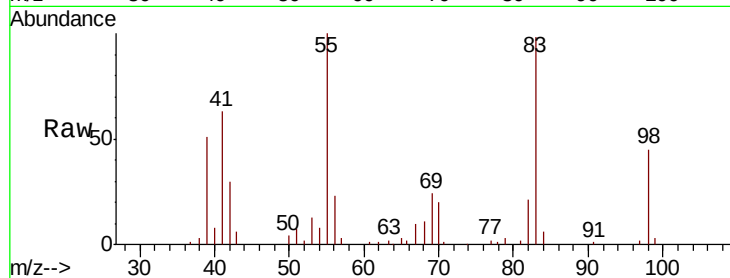
Tot Ion: 83 Resp: 205640

Ion Ratio Lower Upper

83 100

55 102.3 76.6 115.0

98 46.1 35.7 53.5



#40

Benzene

Concen: 20.627 ug/l

RT: 7.45 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD062985.D

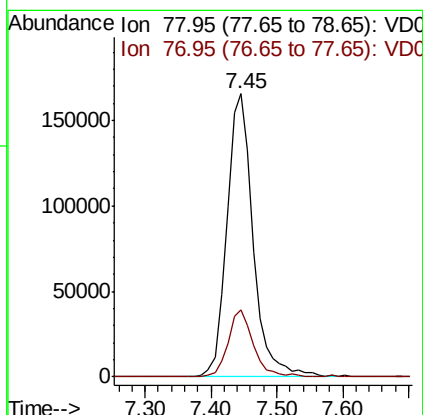
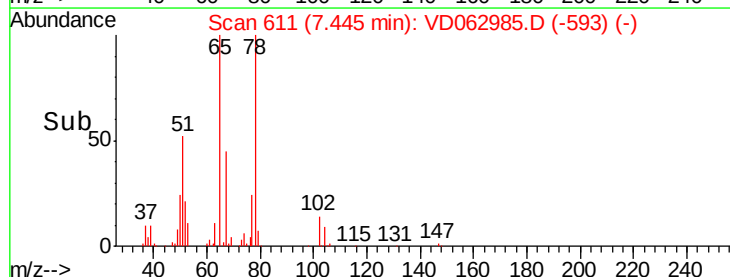
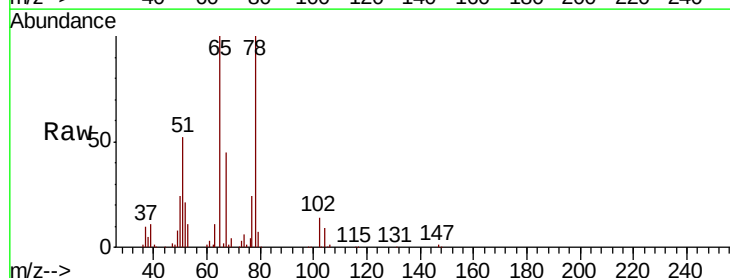
Acq: 1 Jul 2019 12:58

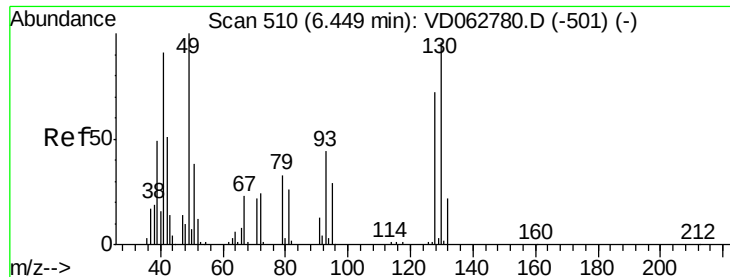
Tgt Ion: 78 Resp: 461931

Ion Ratio Lower Upper

78 100

77 23.9 20.2 30.2





#41

Methacrylonitrile

Concen: 21.842 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 41 Resp: 128511

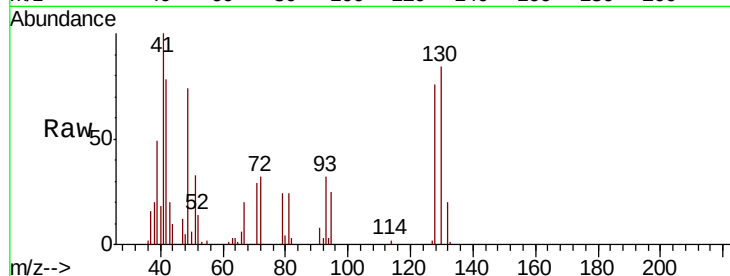
Ion Ratio Lower Upper

41 100

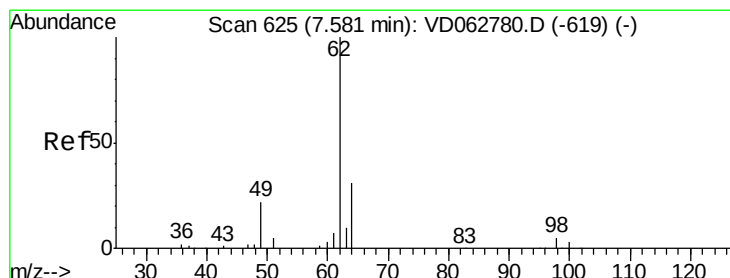
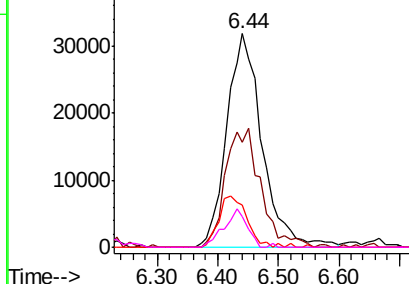
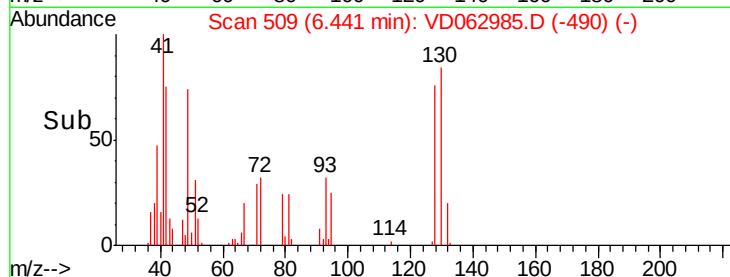
39 49.3 43.2 64.8

67 20.1 19.9 29.9

52 14.2 10.2 15.4



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: 19.769 ug/l

RT: 7.56 min Scan# 623

Delta R.T. -0.02 min

Lab File: VD062985.D

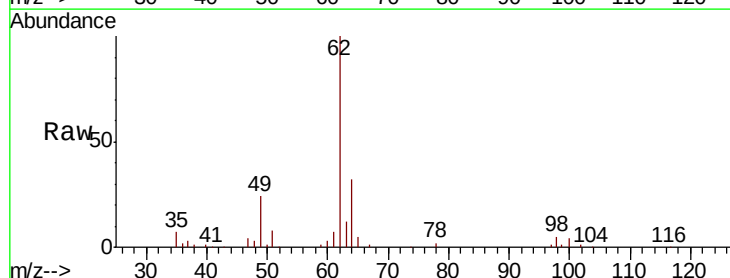
Acq: 1 Jul 2019 12:58

Tgt Ion: 62 Resp: 241523

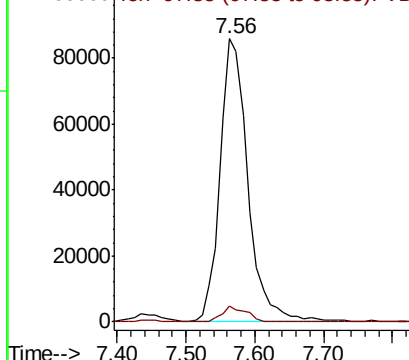
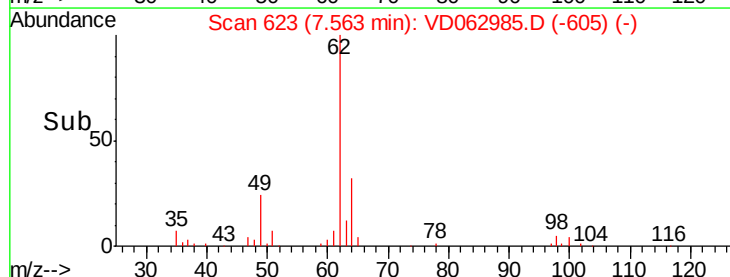
Ion Ratio Lower Upper

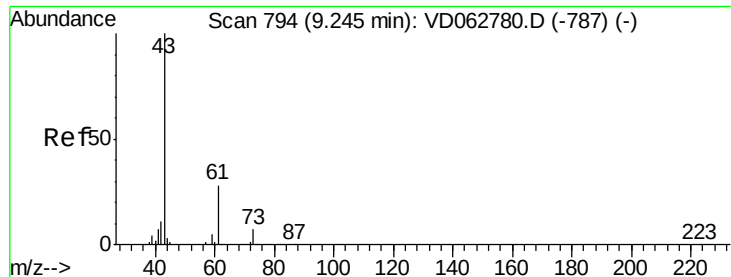
62 100

98 5.4 0.0 10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC

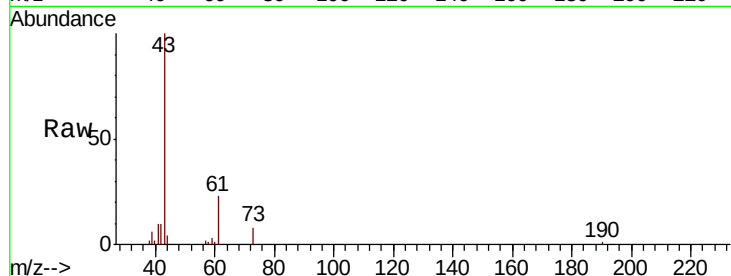




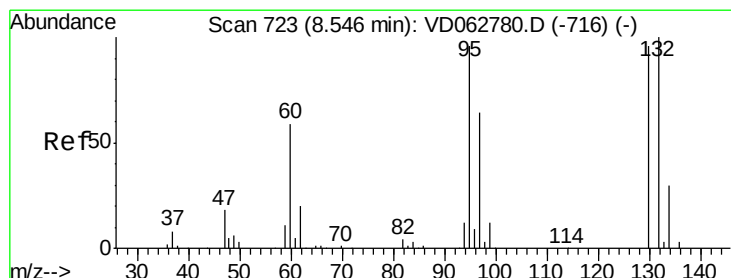
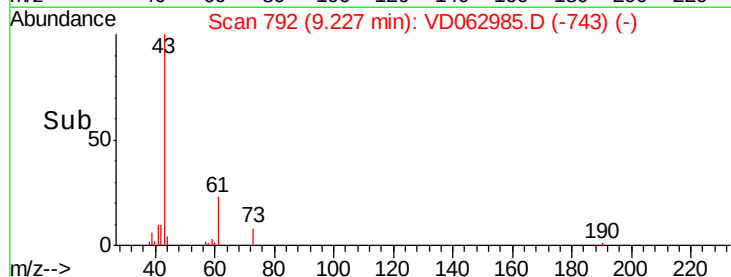
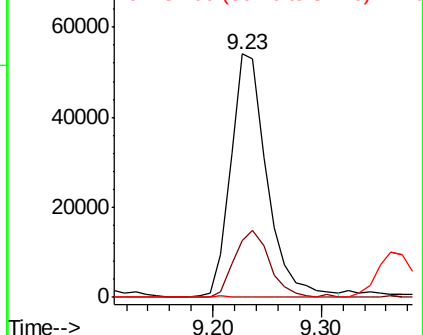
#43
Isopropyl Acetate
Concen: 21.533 ug/l
RT: 9.23 min Scan# 792
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 125947
Ion Ratio Lower Upper
43 100
61 23.3 22.4 33.6
87 0.0 0.3 0.5#

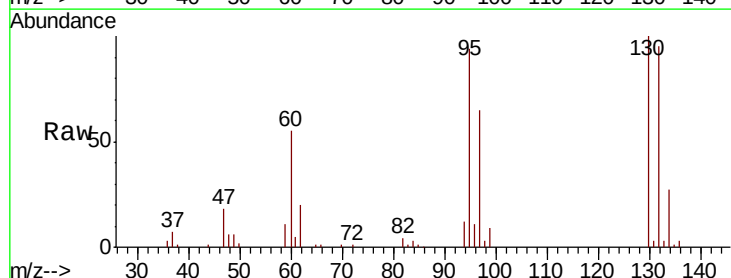


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC

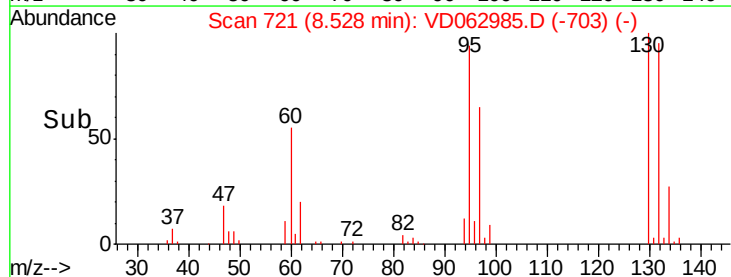
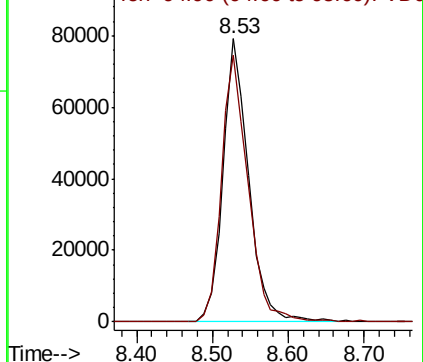


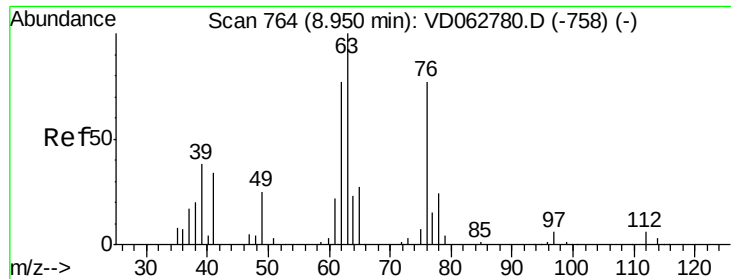
#44
Trichloroethene
Concen: 21.096 ug/l
RT: 8.53 min Scan# 721
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion:130 Resp: 185219
Ion Ratio Lower Upper
130 100
95 94.1 0.0 201.6



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





#45

1,2-Dichloropropane

Concen: 20.862 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

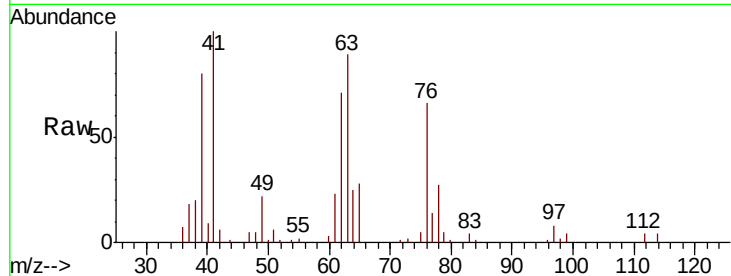
ClientSampleId :

Tot Ion: 63 Resp: 116176

Ion Ratio Lower Upper

63 100

65 30.9 24.2 36.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

40000

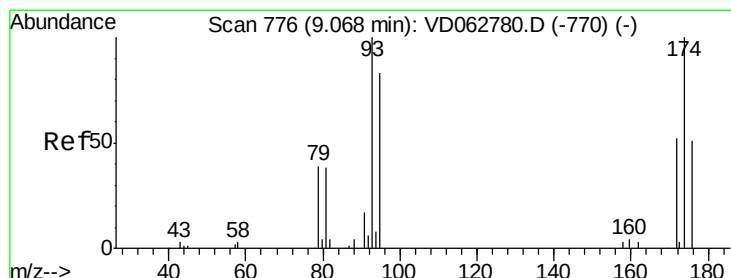
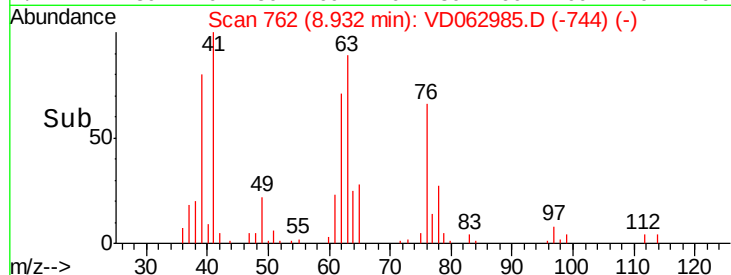
30000

20000

10000

0

Time--> 8.70 8.80 8.90 9.00



#46

Dibromomethane

Concen: 20.840 ug/l

RT: 9.05 min Scan# 774

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

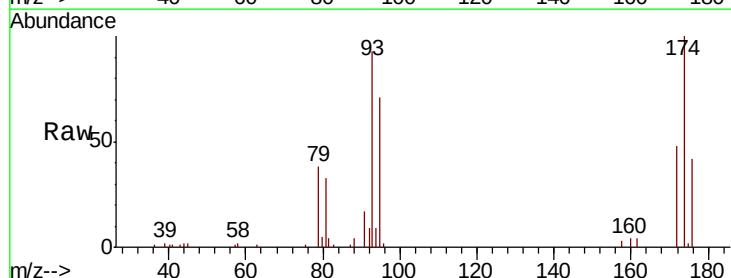
Tgt Ion: 93 Resp: 99688

Ion Ratio Lower Upper

93 100

95 76.8 66.6 100.0

174 108.0 79.7 119.5



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

60000

50000

40000

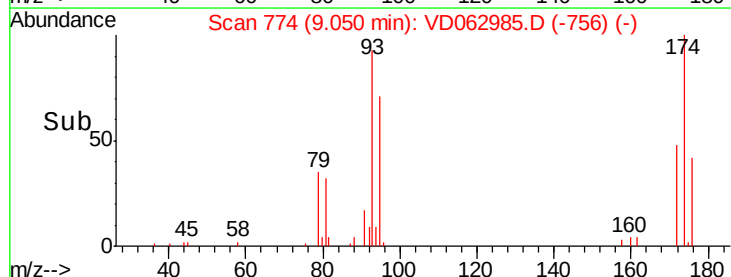
30000

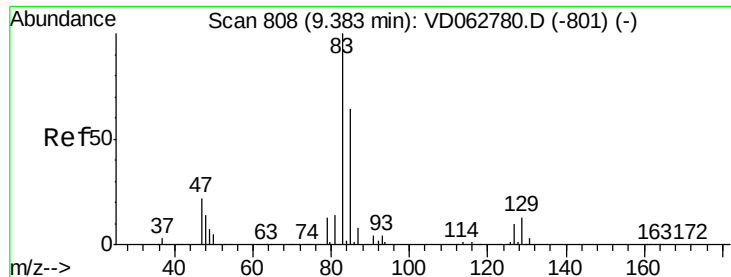
20000

10000

0

Time--> 9.00 9.10 9.20





#47

Bromodichloromethane

Concen: 21.291 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampled :

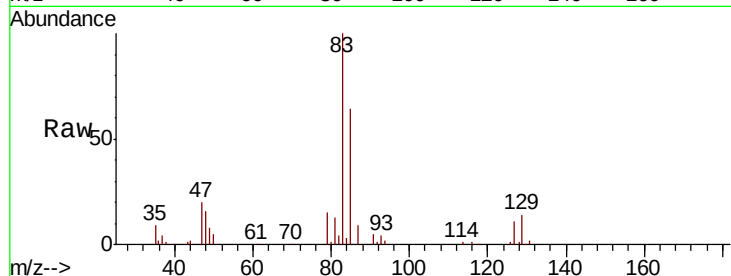
Tot Ion: 83 Resp: 264511

Ion Ratio Lower Upper

83 100

85 64.3 51.6 77.4

127 11.4 7.8 11.6



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

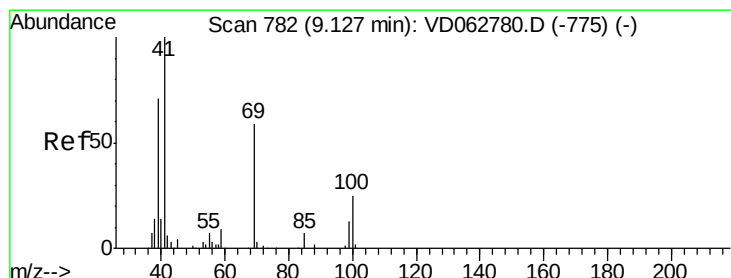
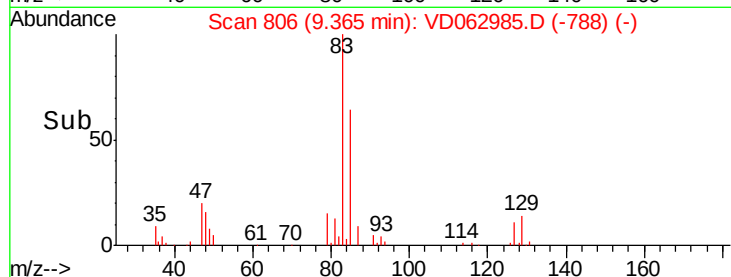
9.36

100000

50000

0

Time-->



#48

Methyl methacrylate

Concen: 19.892 ug/l

RT: 9.12 min Scan# 781

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

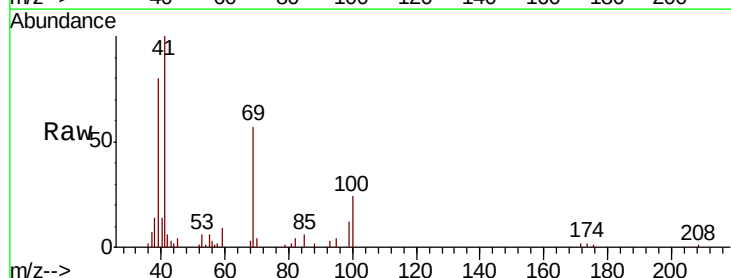
Tgt Ion: 41 Resp: 82680

Ion Ratio Lower Upper

41 100

69 56.6 47.2 70.8

39 79.9 57.4 86.2



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

9.12

40000

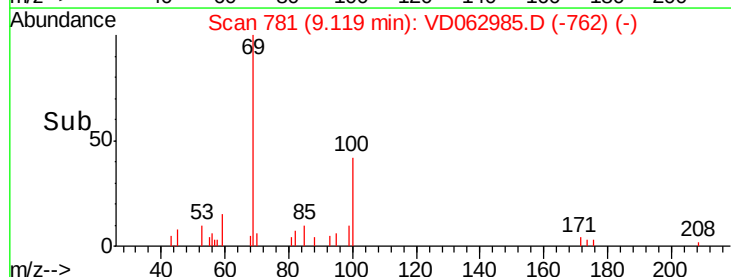
30000

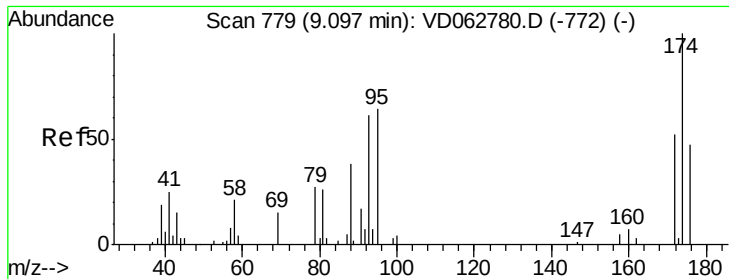
20000

10000

0

Time-->





#49

1,4-Dioxane

Concen: 418.871 ug/l

RT: 9.08 min Scan# 777

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

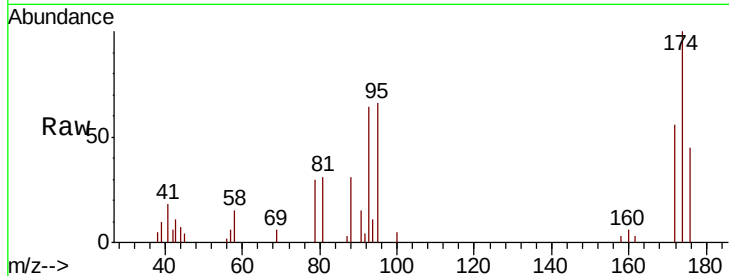
Tot Ion: 88 Resp: 14485

Ion Ratio Lower Upper

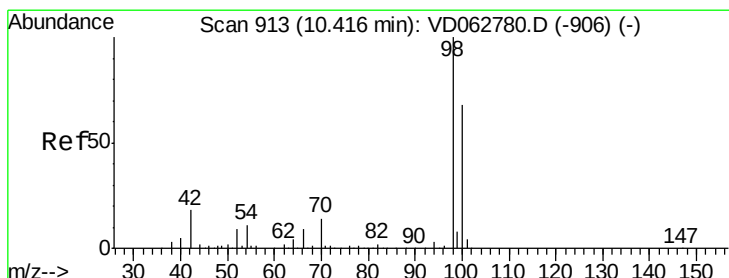
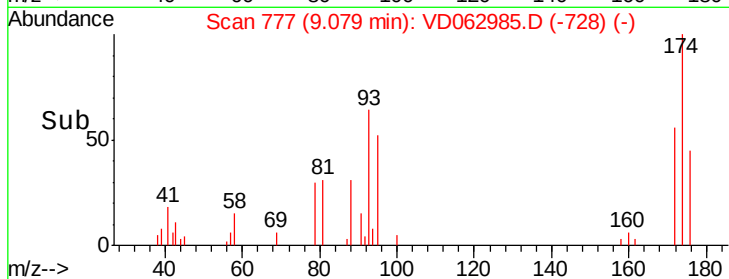
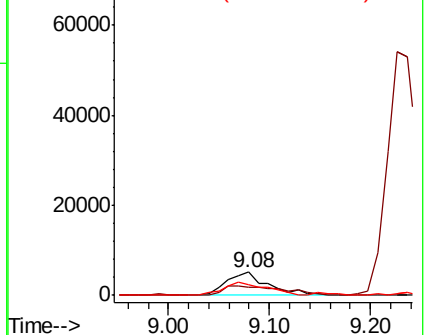
88 100

43 35.5 32.1 48.1

58 48.5 44.1 66.1



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: 48.979 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.02 min

Lab File: VD062985.D

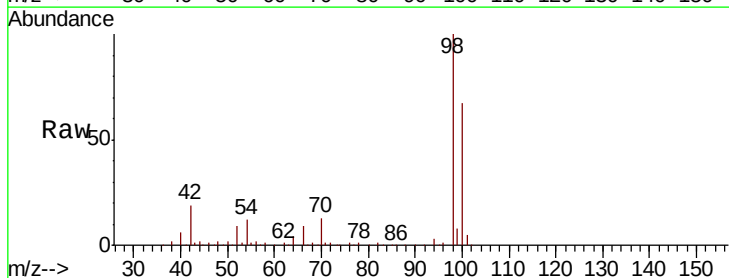
Acq: 1 Jul 2019 12:58

Tgt Ion: 98 Resp: 1059360

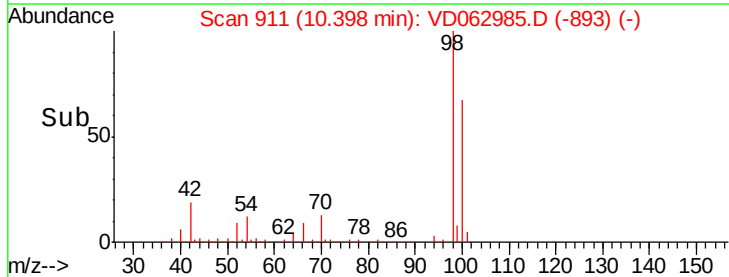
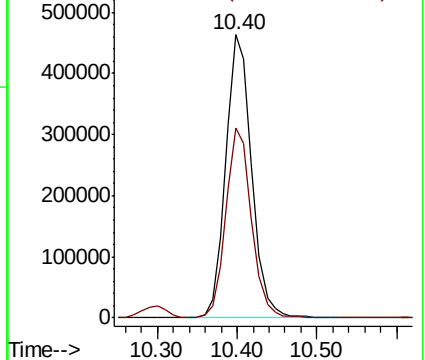
Ion Ratio Lower Upper

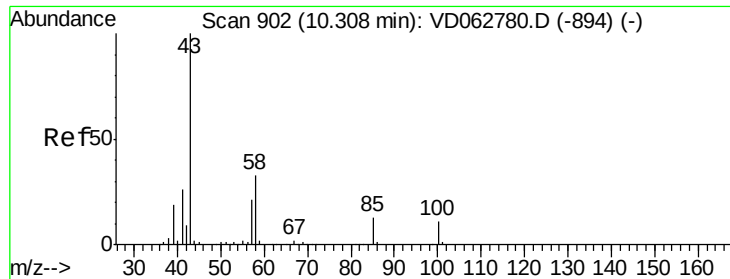
98 100

100 67.2 54.7 82.1



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

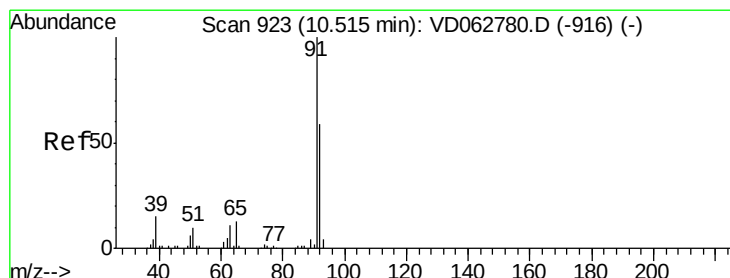
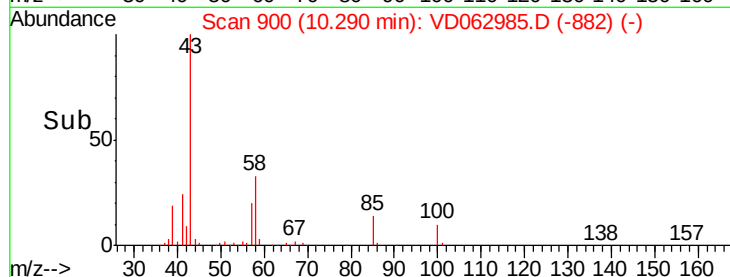
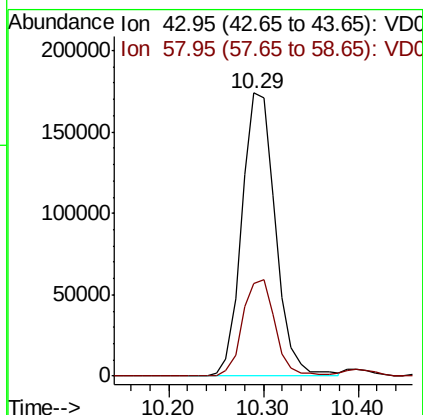
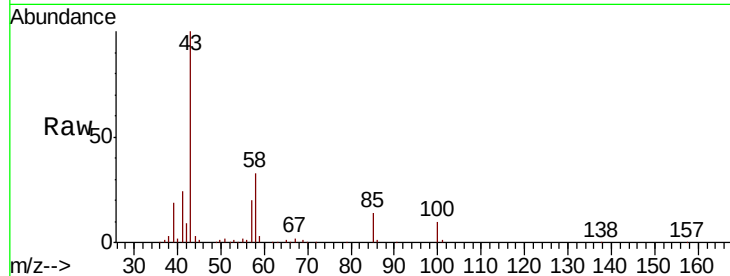




#51
4-Methyl-2-Pentanone
Concen: 103.036 ug/l
RT: 10.29 min Scan# 900
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

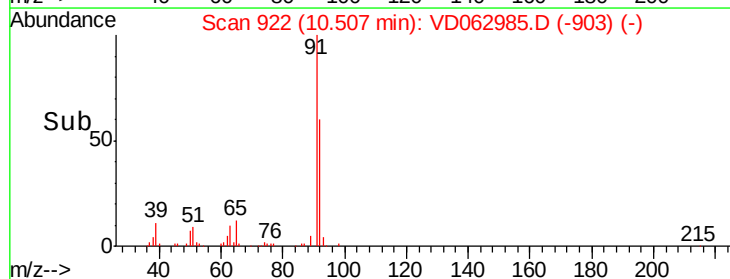
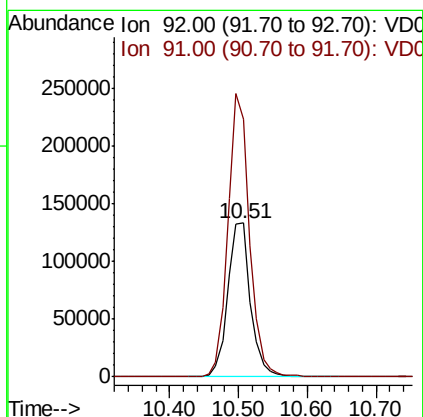
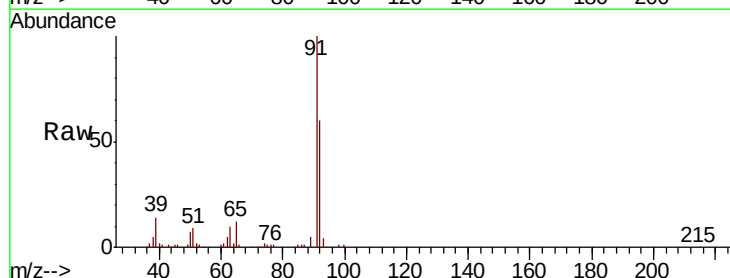
Instrument :
MSVOA_D
ClientSampled :

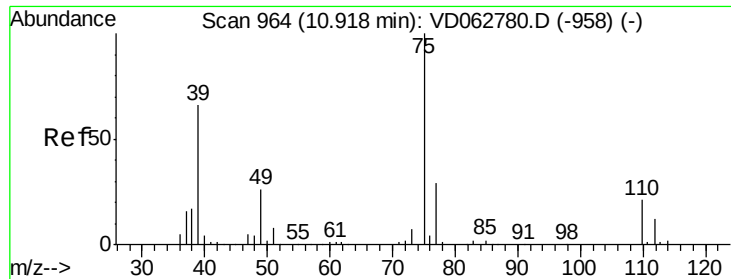
Tot Ion: 43 Resp: 427289
Ion Ratio Lower Upper
43 100
58 32.9 26.6 40.0



#52
Toluene
Concen: 20.154 ug/l
RT: 10.51 min Scan# 922
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 92 Resp: 303402
Ion Ratio Lower Upper
92 100
91 167.5 136.3 204.5

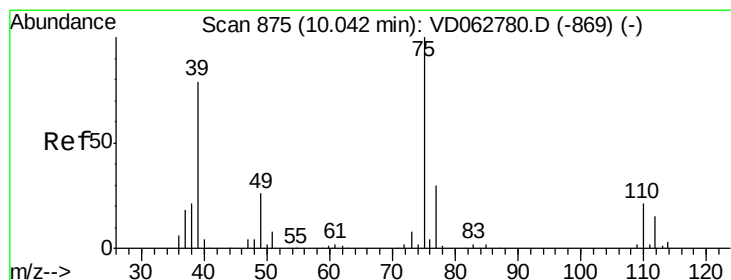
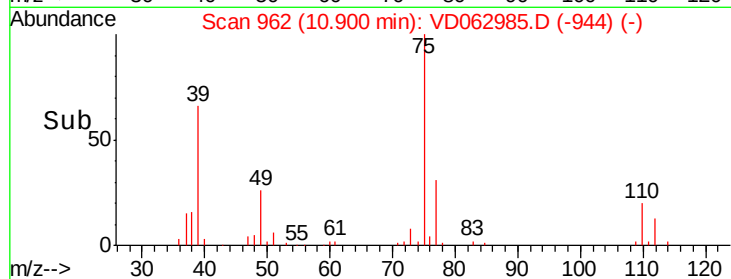
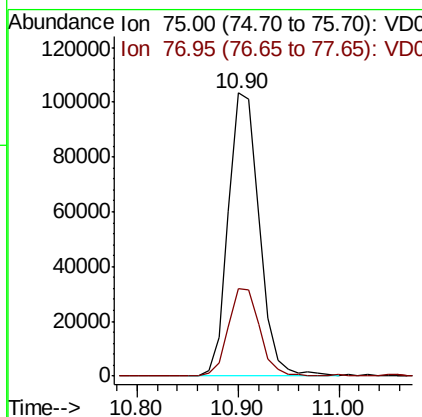
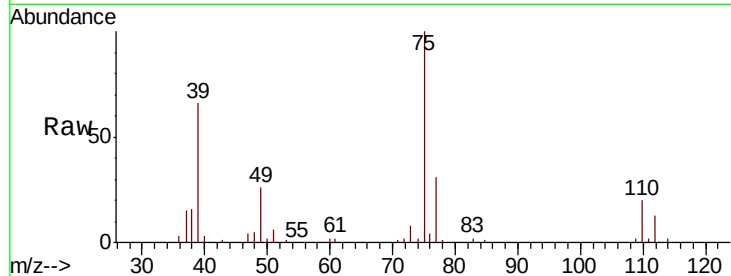




#53
 t-1,3-Dichloropropene
 Concen: 21.631 ug/l
 RT: 10.90 min Scan# 962
 Delta R.T. -0.02 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

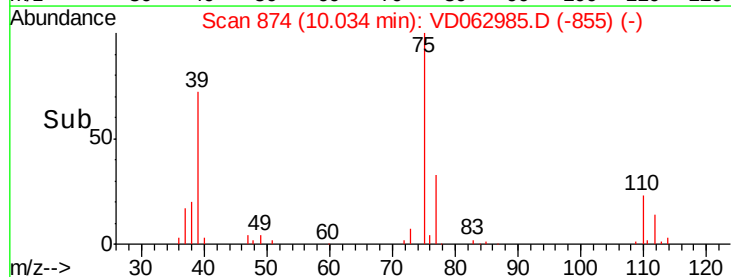
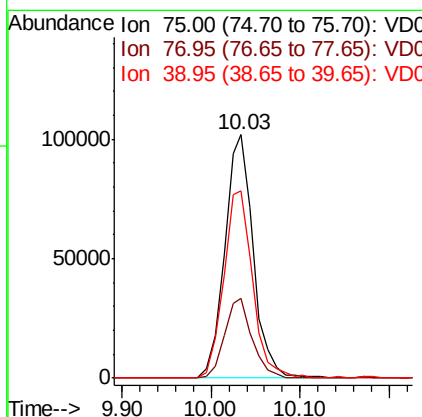
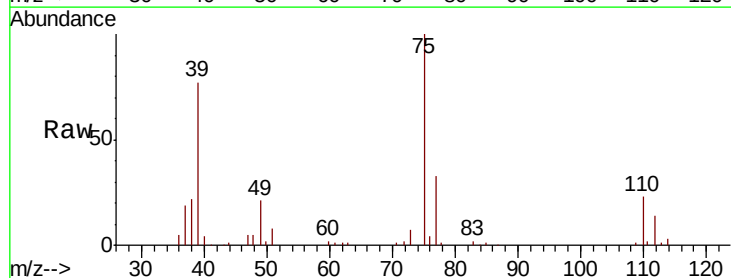
Instrument :
 MSVOA_D
 ClientSampled :

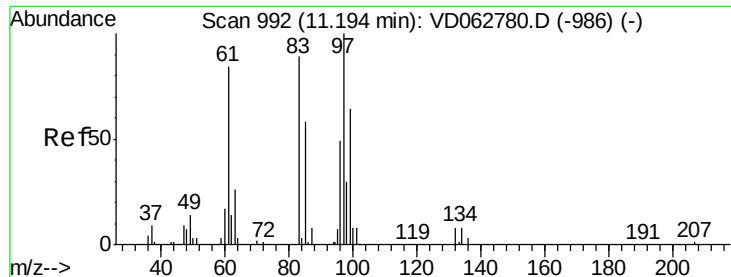
Tot Ion: 75 Resp: 219955
 Ion Ratio Lower Upper
 75 100
 77 30.8 23.2 34.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.687 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion: 75 Resp: 228636
 Ion Ratio Lower Upper
 75 100
 77 32.9 24.2 36.2
 39 76.8 63.5 95.3





#55

1,1,2-Trichloroethane

Concen: 19.851 ug/l

RT: 11.18 min Scan# 990

Delta R.T. -0.02 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 97 Resp: 102669

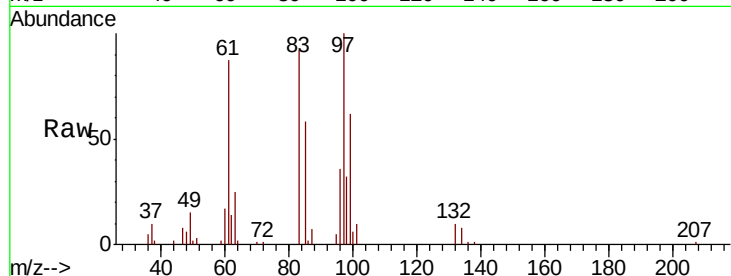
Ion Ratio Lower Upper

97 100

83 92.0 71.0 106.4

85 57.8 46.6 69.8

99 61.9 51.4 77.0

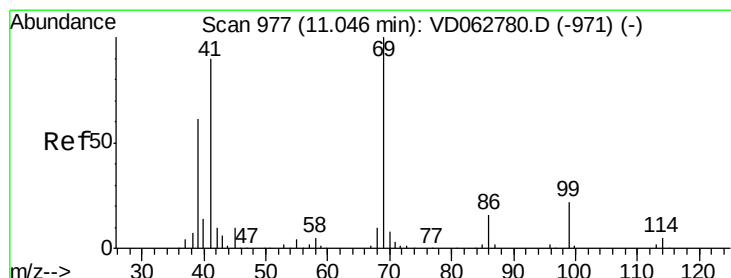
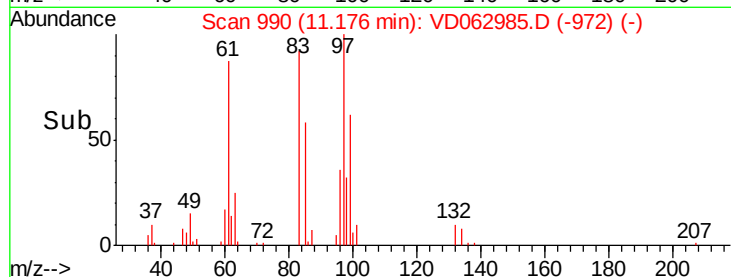
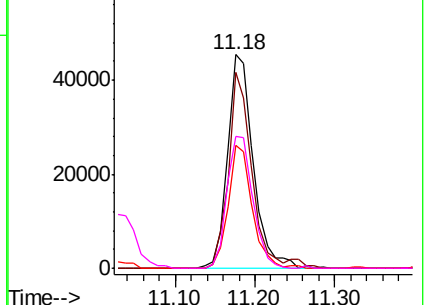


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 18.503 ug/l

RT: 11.04 min Scan# 976

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

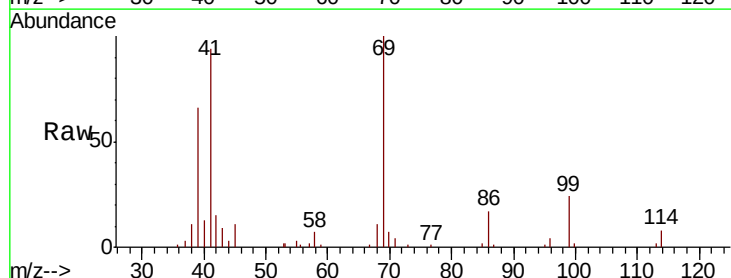
Tgt Ion: 69 Resp: 102268

Ion Ratio Lower Upper

69 100

41 94.3 72.0 108.0

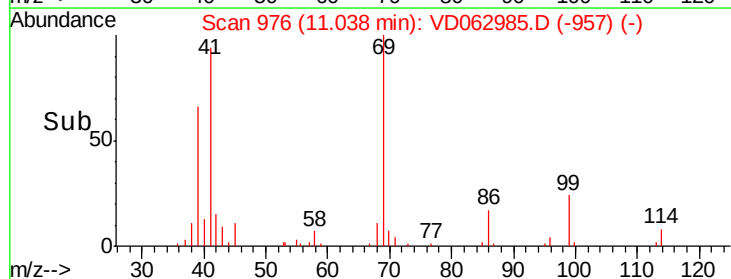
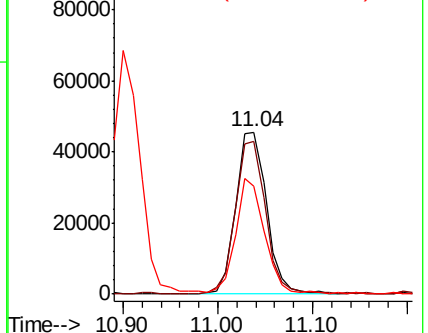
39 66.4 49.5 74.3

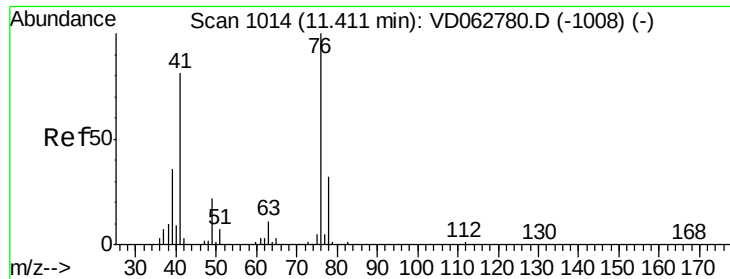


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 21.216 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

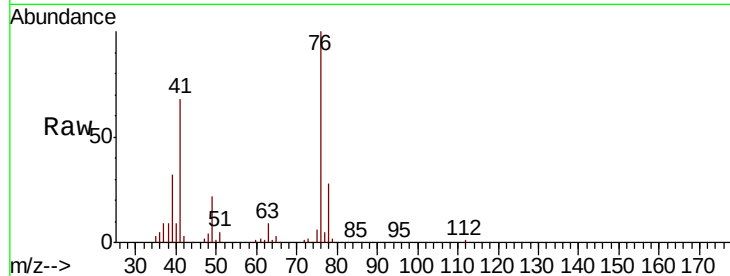
ClientSampleId :

Tot Ion: 76 Resp: 168010

Ion Ratio Lower Upper

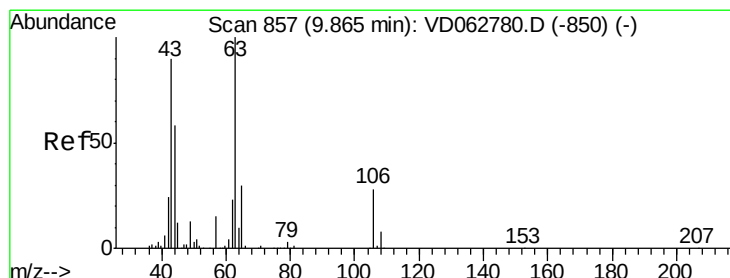
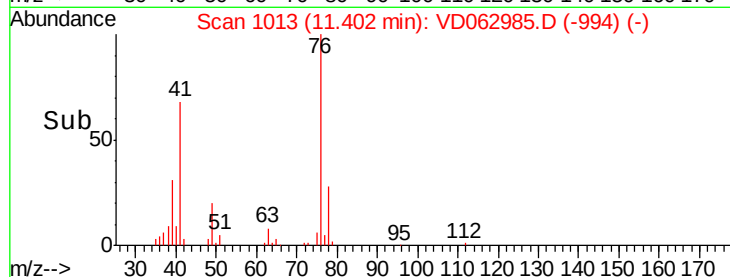
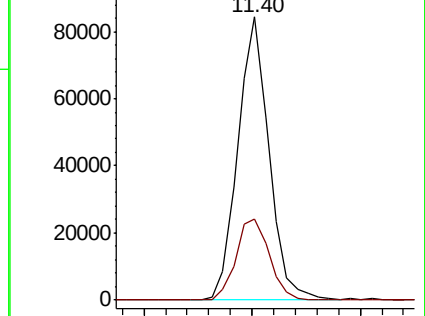
76 100

78 28.5 25.4 38.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 103.655 ug/l

RT: 9.85 min Scan# 855

Delta R.T. -0.02 min

Lab File: VD062985.D

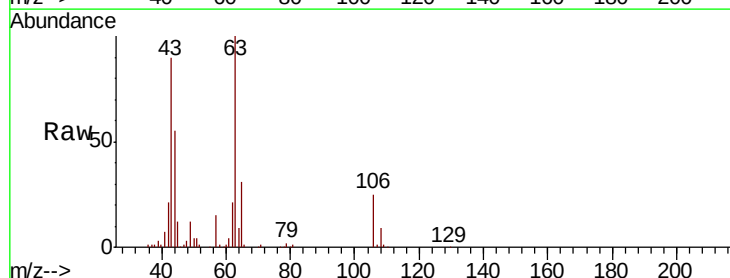
Acq: 1 Jul 2019 12:58

Tgt Ion: 63 Resp: 294131

Ion Ratio Lower Upper

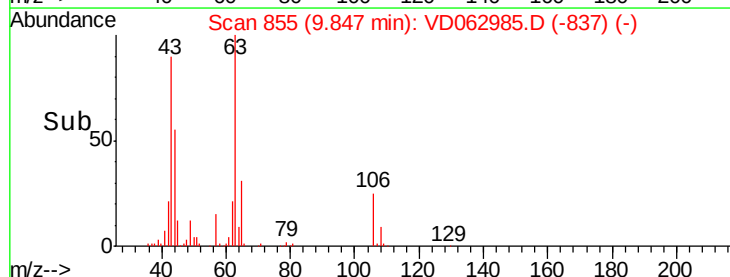
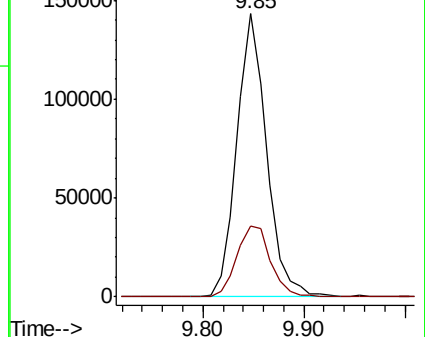
63 100

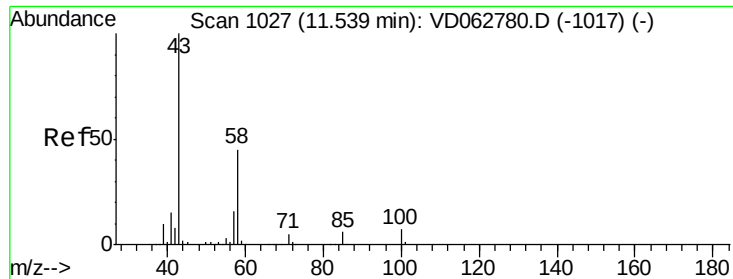
106 25.2 22.1 33.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

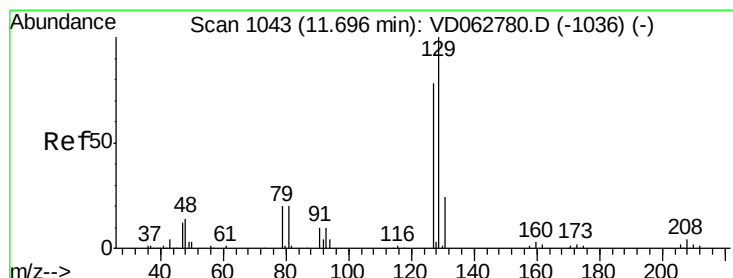
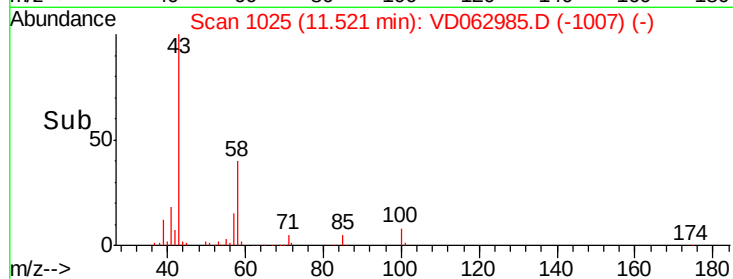
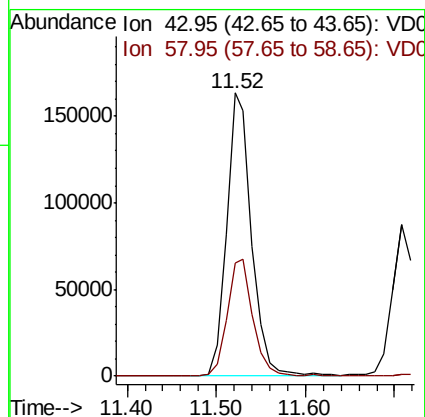
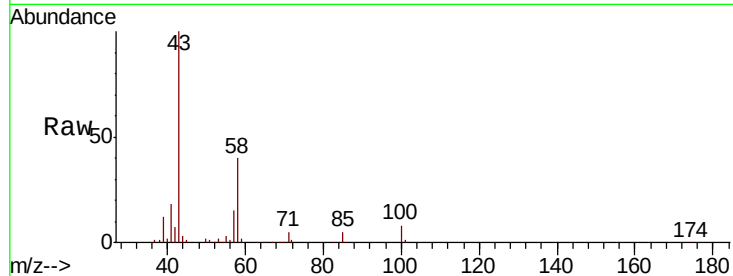




#59
2-Hexanone
Concen: 108.651 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

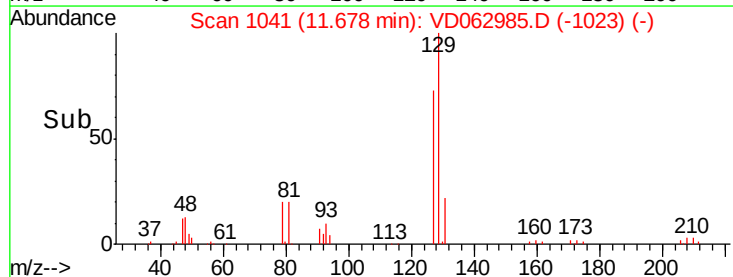
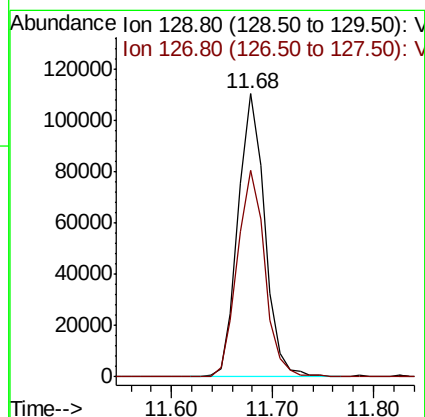
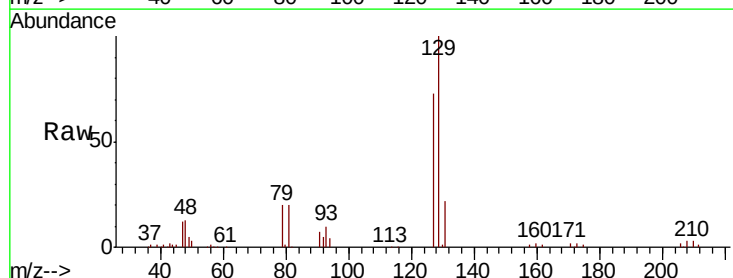
Instrument :
MSVOA_D
ClientSampleId :

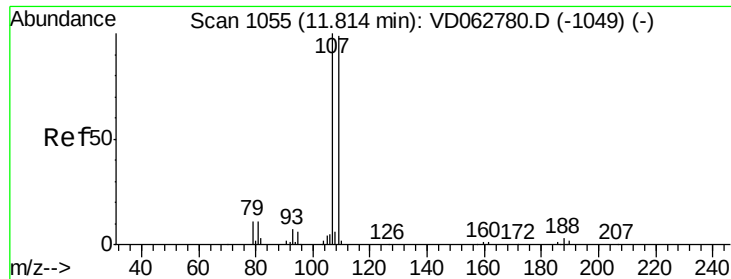
Tot Ion: 43 Resp: 320894
Ion Ratio Lower Upper
43 100
58 40.1 22.4 67.2



#60
Dibromochloromethane
Concen: 21.141 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 129 Resp: 203663
Ion Ratio Lower Upper
129 100
127 73.1 38.9 116.6

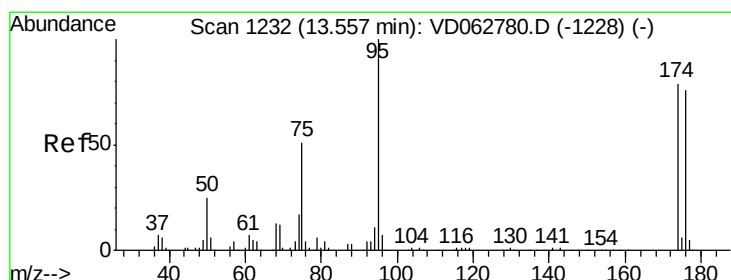
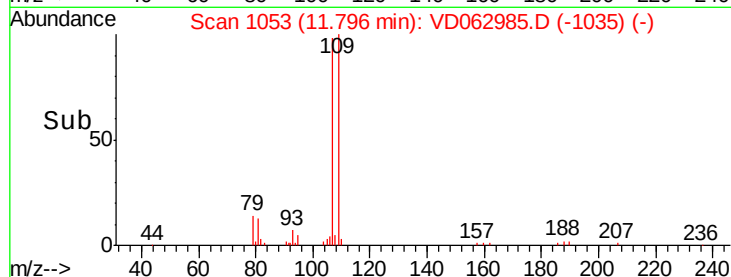
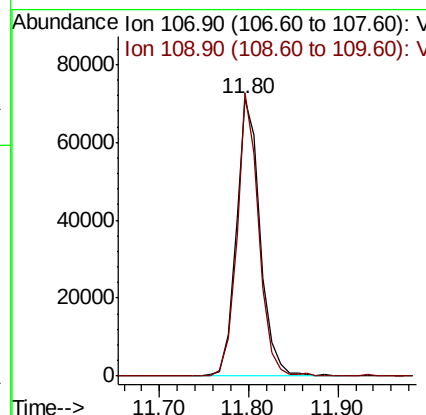
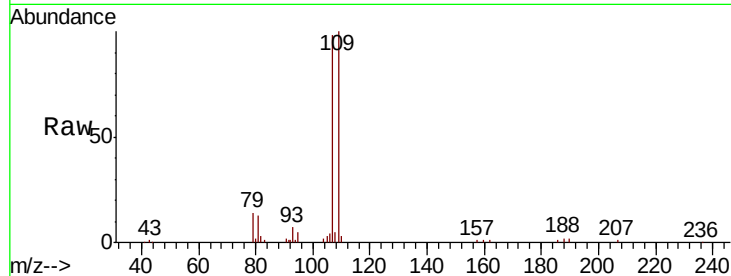




#61
 1,2-Dibromoethane
 Concen: 21.783 ug/l
 RT: 11.80 min Scan# 1053
 Delta R.T. -0.02 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

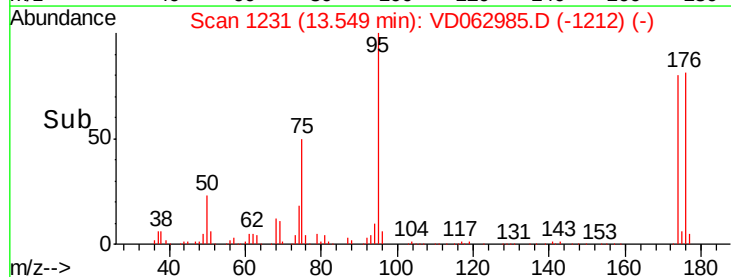
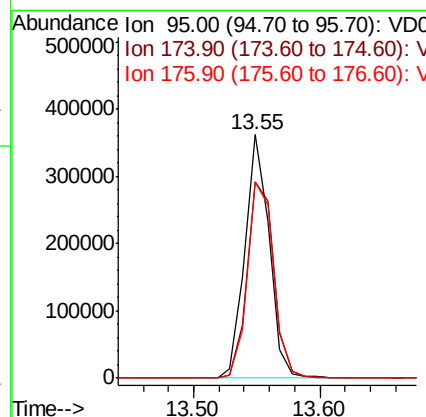
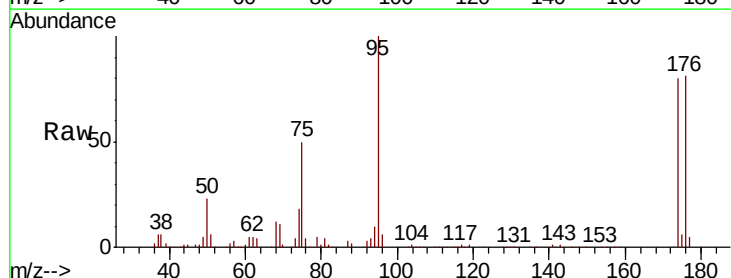
Instrument :
 MSVOA_D
 ClientSampled :

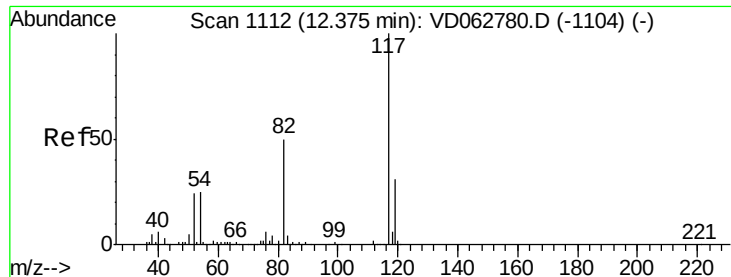
Tot Ion: 107 Resp: 133060
 Ion Ratio Lower Upper
 107 100
 109 102.0 79.3 118.9



#62
 4-Bromofluorobenzene
 Concen: 48.912 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion: 95 Resp: 481035
 Ion Ratio Lower Upper
 95 100
 174 80.5 0.0 158.0
 176 80.8 0.0 151.6

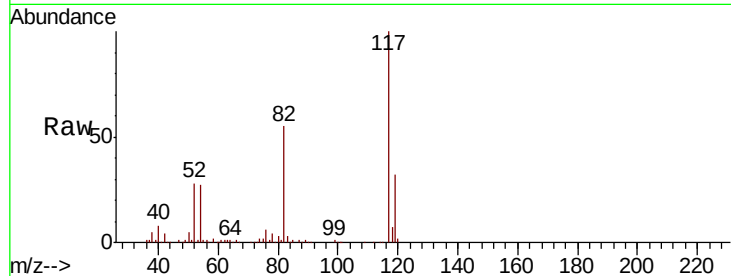




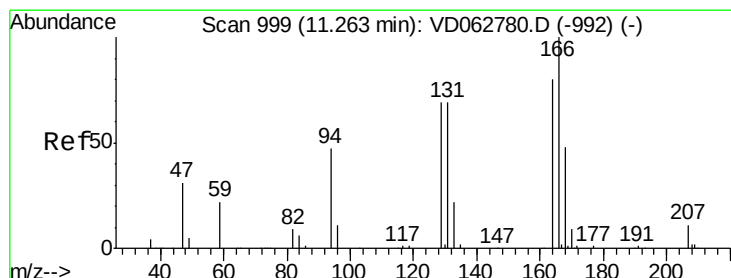
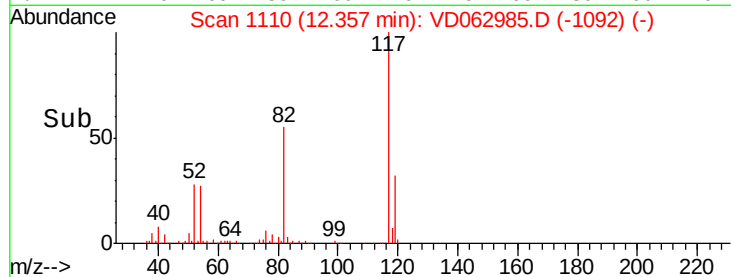
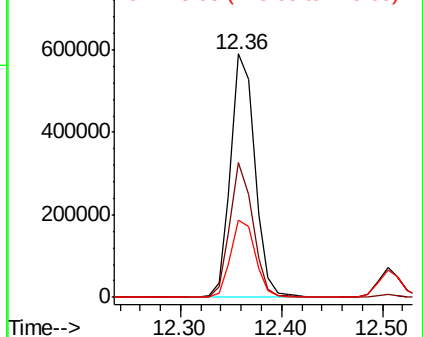
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 988138
Ion Ratio Lower Upper
117 100
82 55.4 40.4 60.6
119 31.6 25.2 37.8

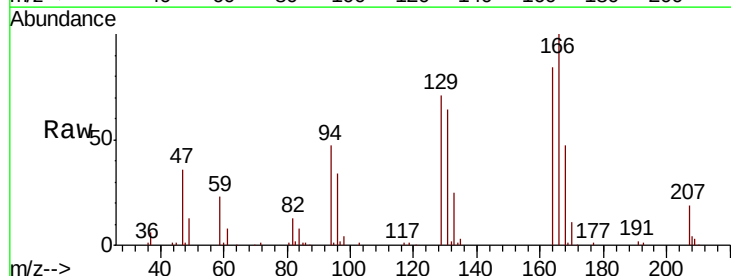


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

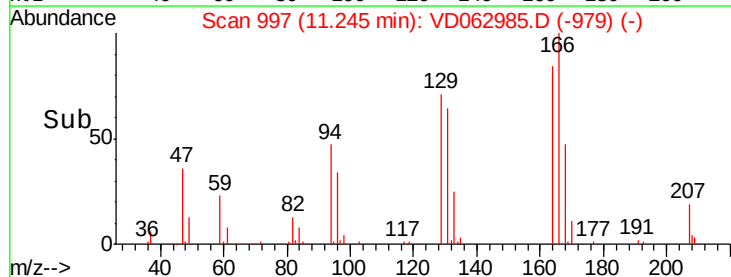
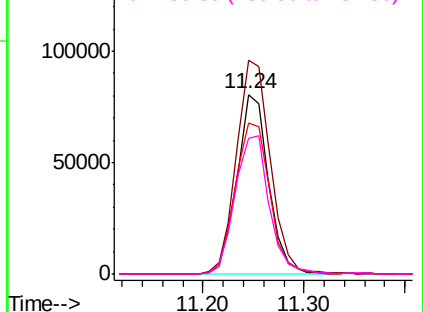


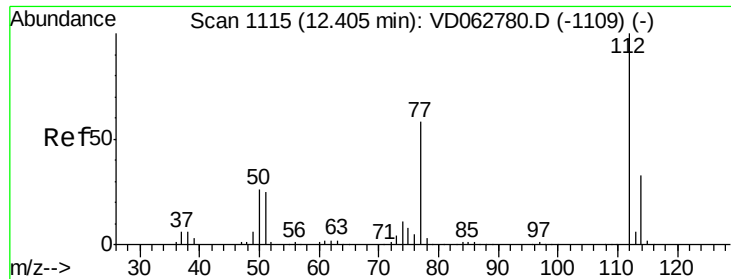
#64
Tetrachloroethene
Concen: 21.595 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion:164 Resp: 175620
Ion Ratio Lower Upper
164 100
166 119.2 100.6 150.8
129 84.5 69.4 104.0
131 75.8 69.3 103.9



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

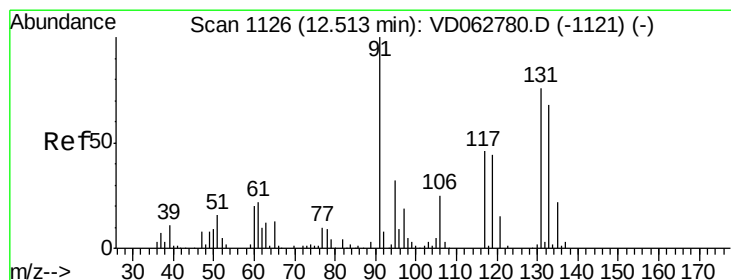
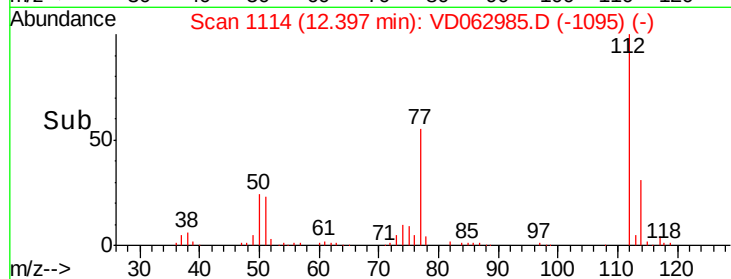
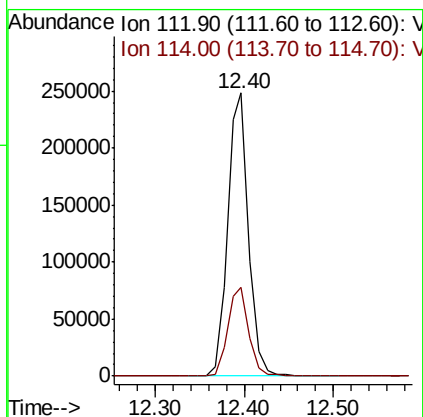
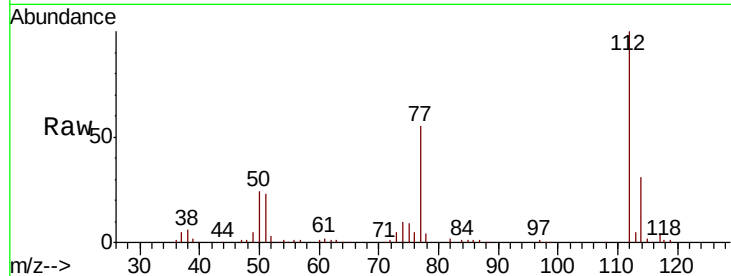




#65
Chlorobenzene
Concen: 22.365 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

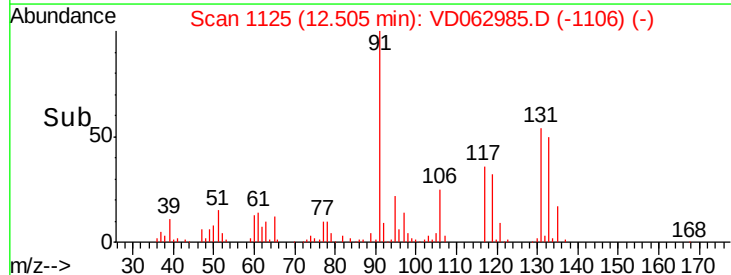
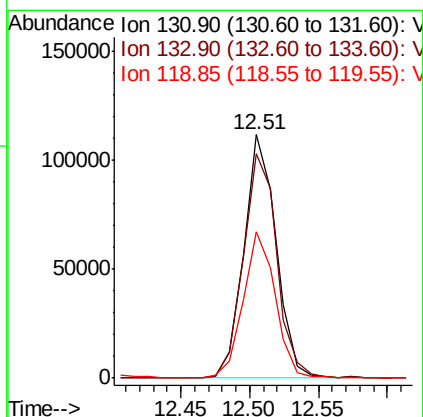
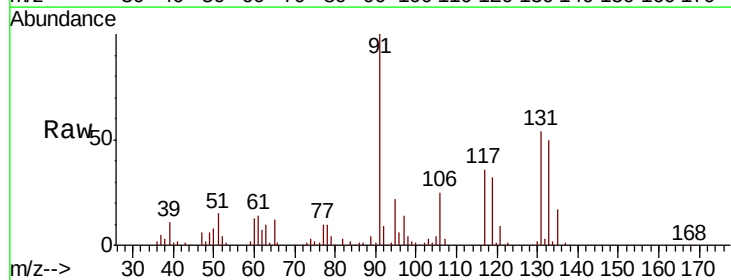
Instrument :
MSVOA_D
ClientSampleId :

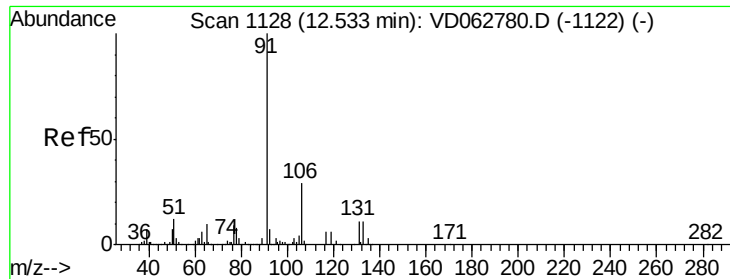
Tot Ion:112 Resp: 410145
Ion Ratio Lower Upper
112 100
114 31.3 26.3 39.5



#66
1,1,1,2-Tetrachloroethane
Concen: 21.334 ug/l
RT: 12.51 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion:131 Resp: 182962
Ion Ratio Lower Upper
131 100
133 92.1 44.5 133.3
119 59.9 28.6 85.9

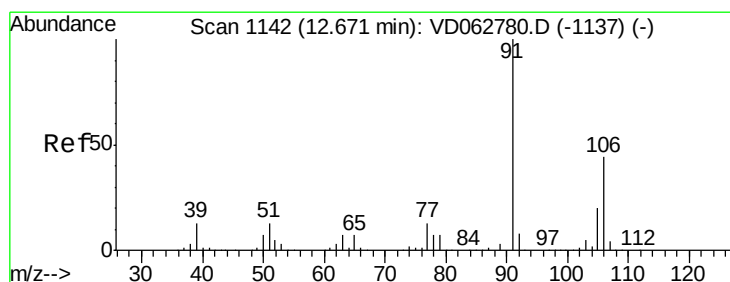
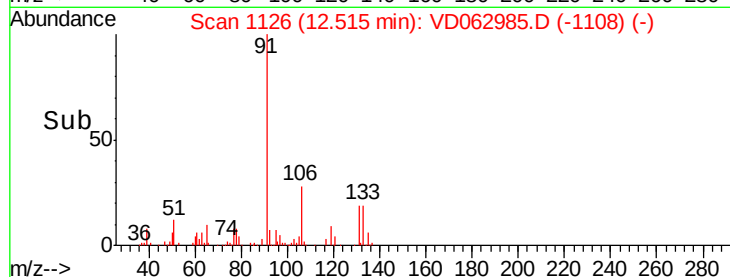
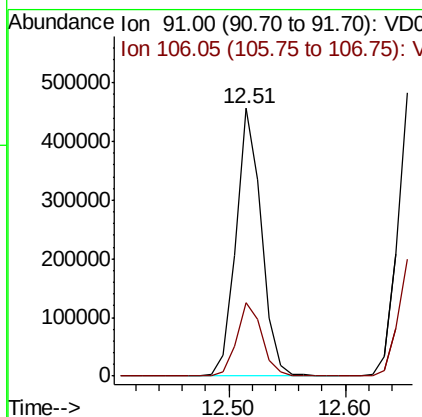
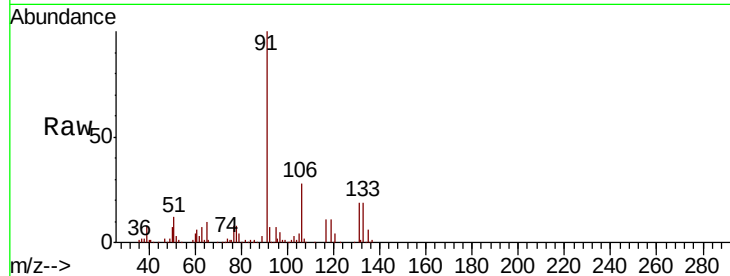




#67
Ethyl Benzene
Concen: 20.869 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

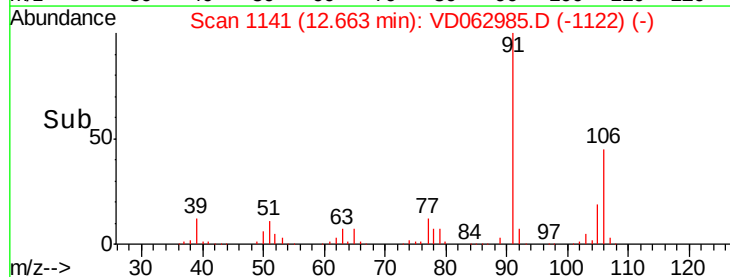
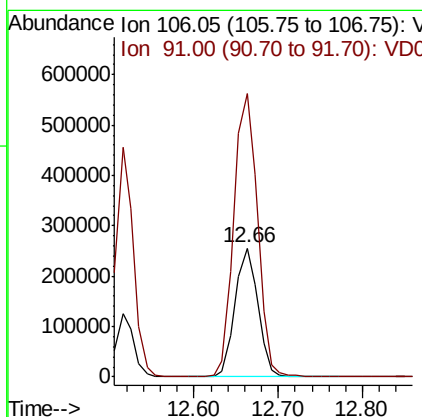
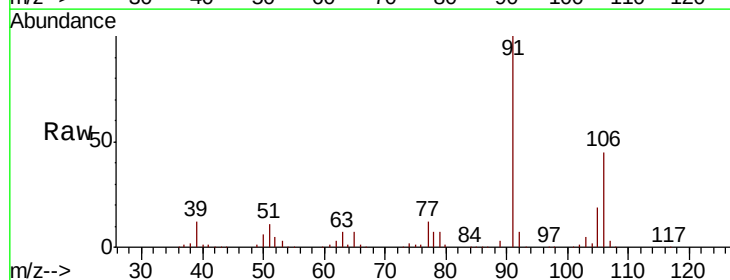
Instrument :
MSVOA_D
ClientSampled :

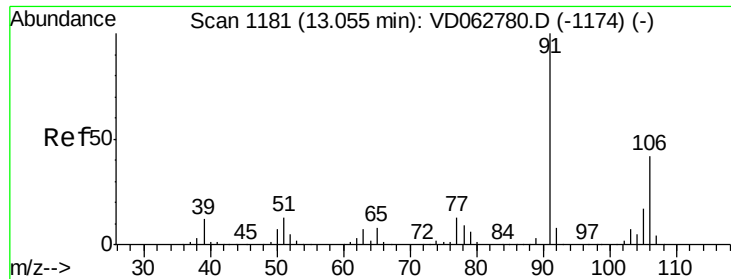
Tot Ion: 91 Resp: 687108
Ion Ratio Lower Upper
91 100
106 27.6 23.1 34.7



#68
m/p-Xylenes
Concen: 42.279 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 106 Resp: 484833
Ion Ratio Lower Upper
106 100
91 220.1 183.0 274.6

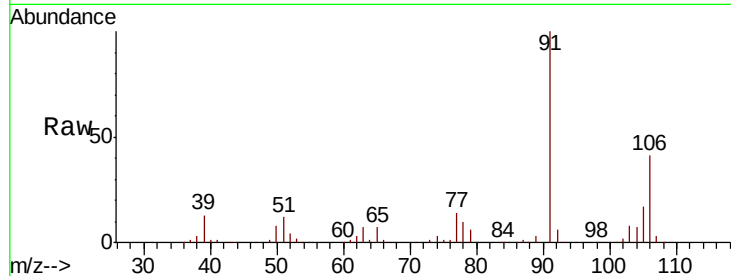




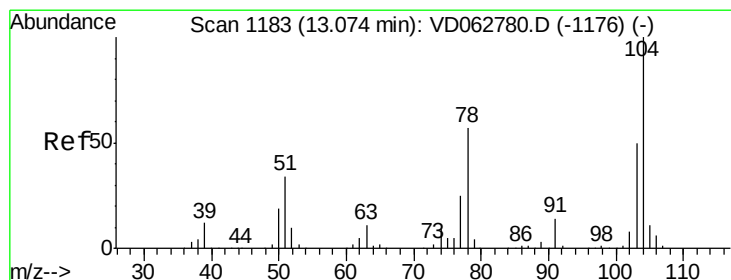
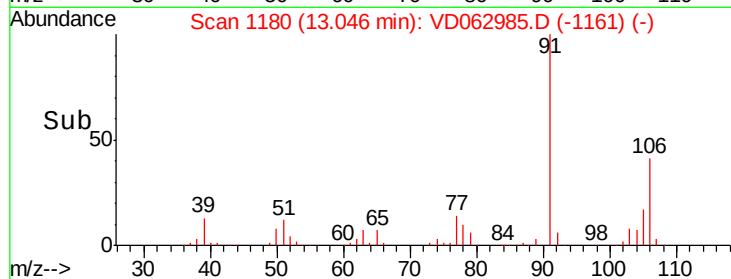
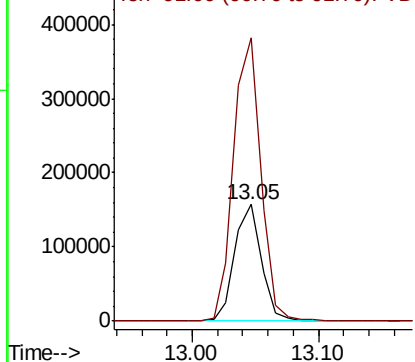
#69
o-Xylene
Concen: 21.962 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 230227
Ion Ratio Lower Upper
106 100
91 242.1 117.9 353.6

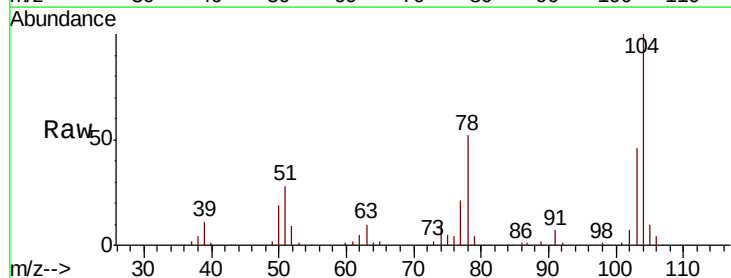


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

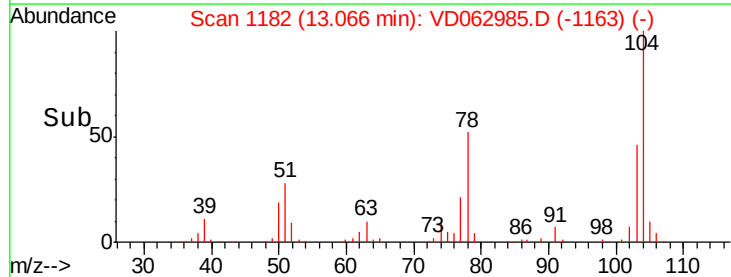
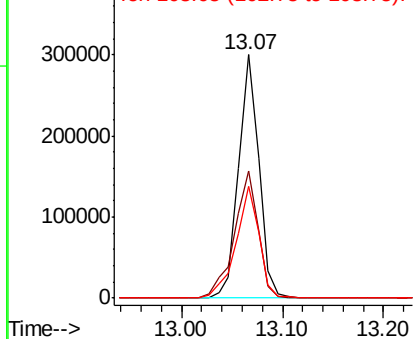


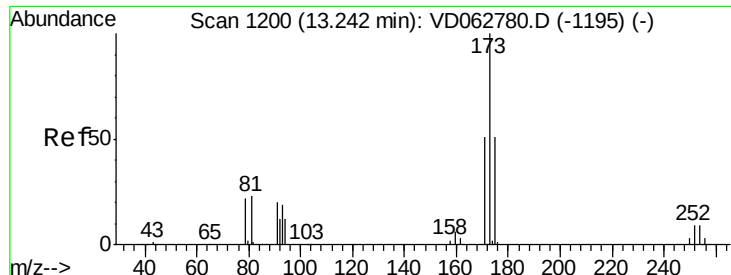
#70
Styrene
Concen: 22.814 ug/l
RT: 13.07 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion:104 Resp: 420068
Ion Ratio Lower Upper
104 100
78 52.3 45.4 68.2
103 45.8 39.7 59.5



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: 21.242 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

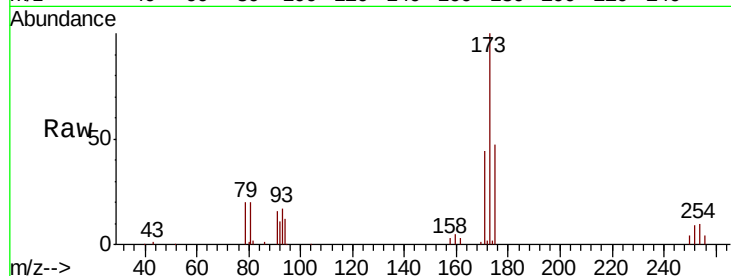
Tot Ion:173 Resp: 124817

Ion Ratio Lower Upper

173 100

175 47.3 25.3 75.9

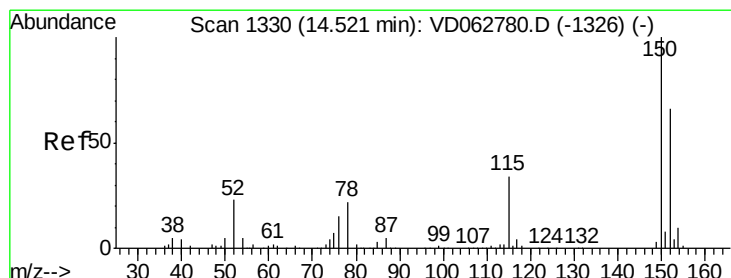
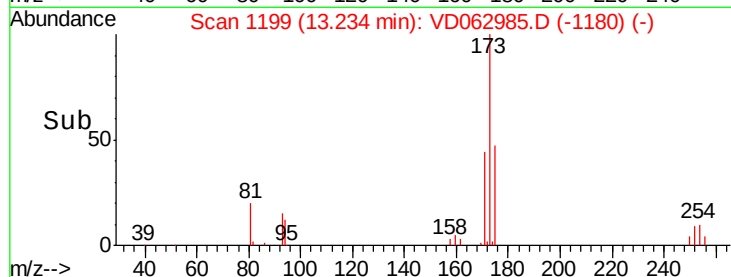
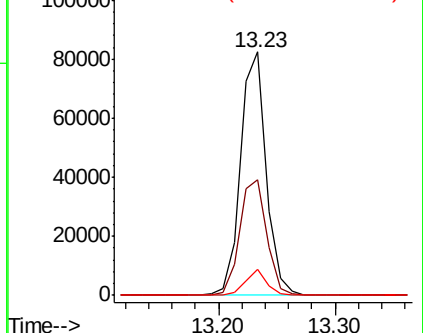
254 10.4 7.1 10.7



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

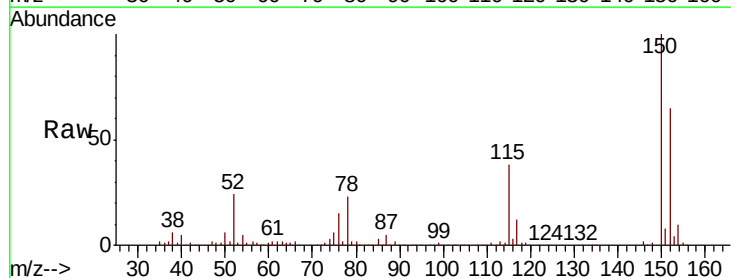
Tgt Ion:152 Resp: 543612

Ion Ratio Lower Upper

152 100

115 58.4 29.2 87.6

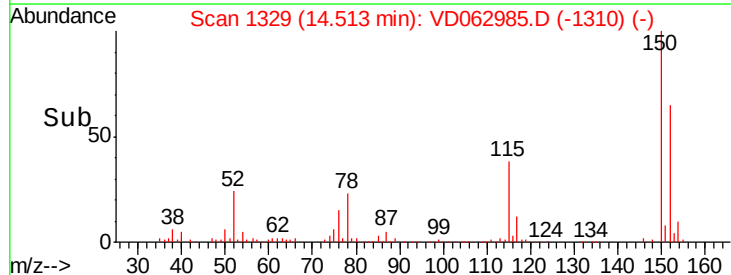
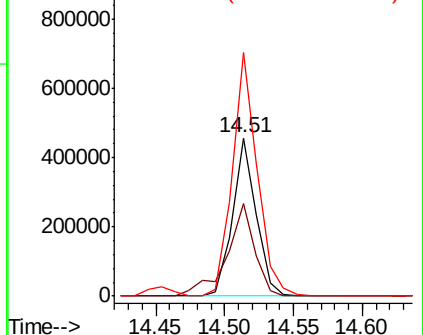
150 154.1 0.0 305.8

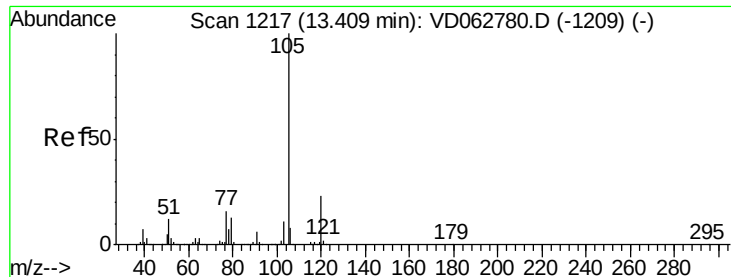


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.789 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

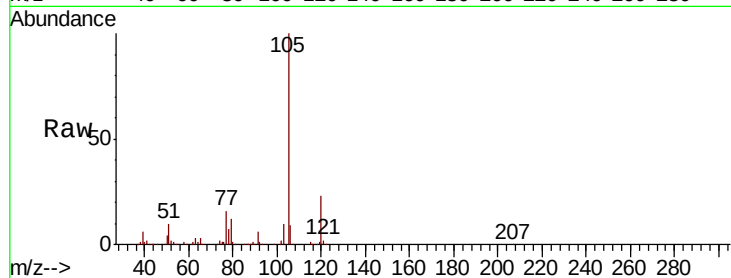
ClientSampled :

Tot Ion:105 Resp: 689743

Ion Ratio Lower Upper

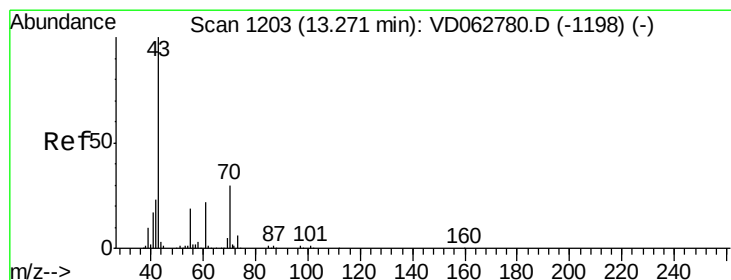
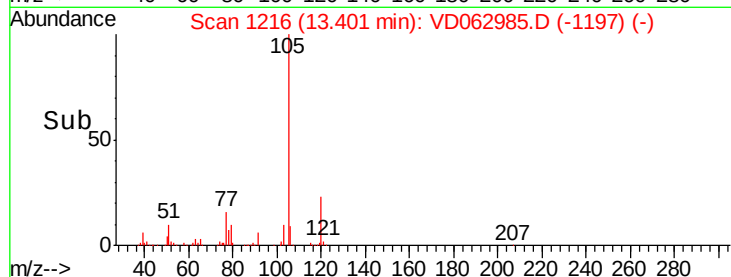
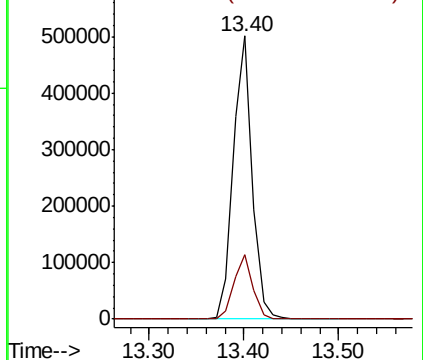
105 100

120 22.8 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.958 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Tgt Ion: 43 Resp: 185862

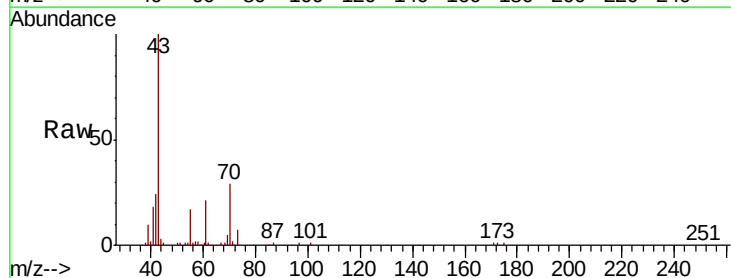
Ion Ratio Lower Upper

43 100

70 29.0 24.4 36.6

55 17.3 15.2 22.8

61 21.5 17.4 26.2

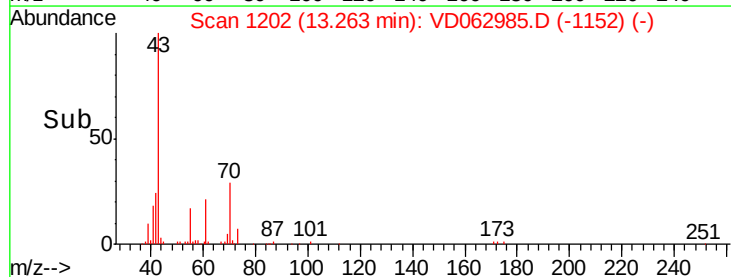
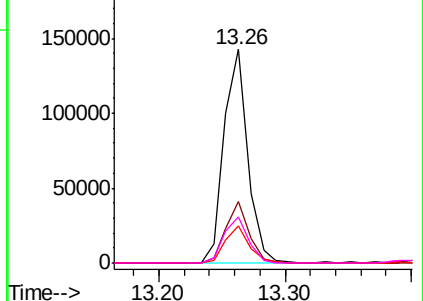


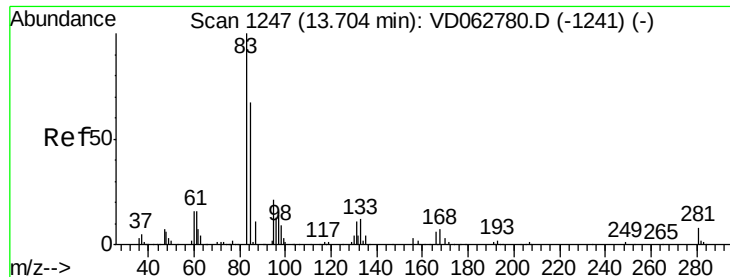
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.448 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

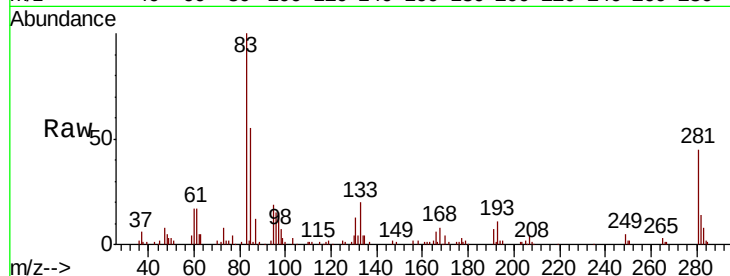
Tot Ion: 83 Resp: 121803

Ion Ratio Lower Upper

83 100

131 12.7 5.3 16.1

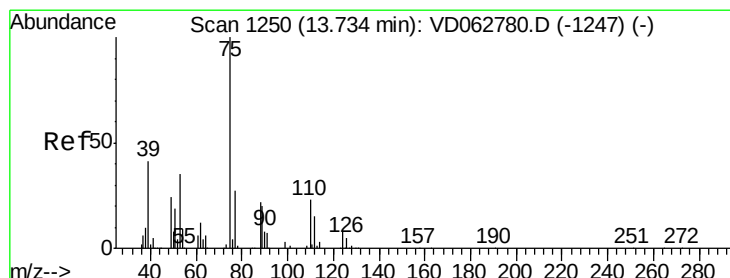
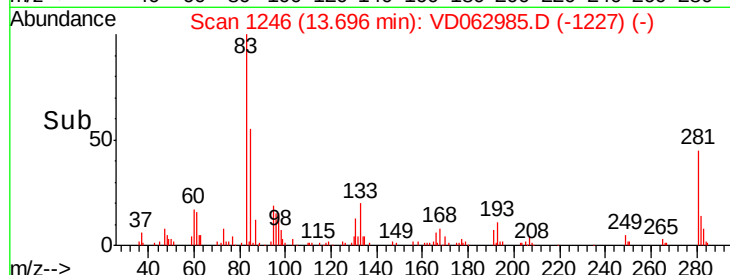
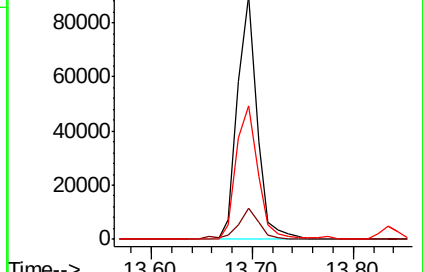
85 54.8 33.7 101.1



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: 22.635 ug/l

RT: 13.73 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD062985.D

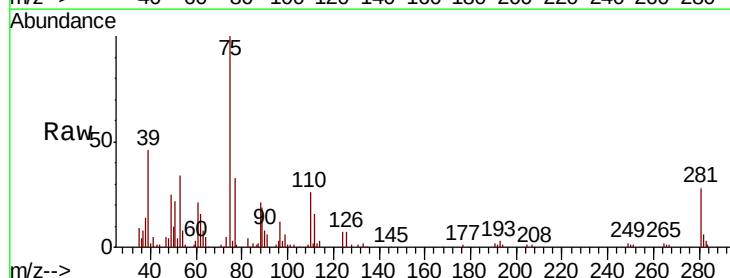
Acq: 1 Jul 2019 12:58

Tgt Ion: 75 Resp: 142050

Ion Ratio Lower Upper

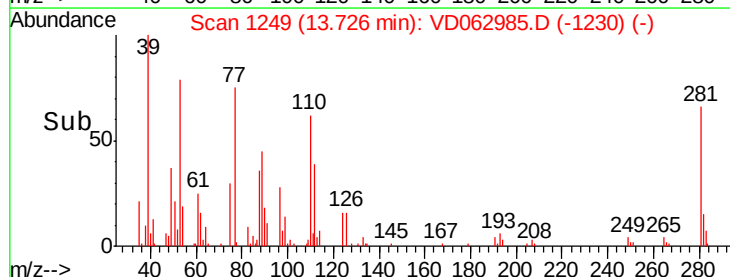
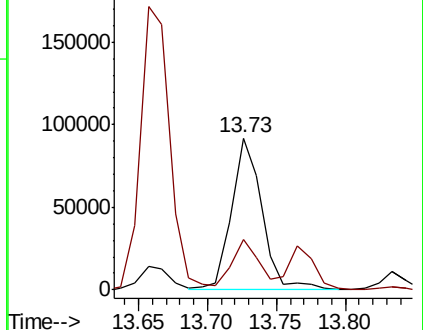
75 100

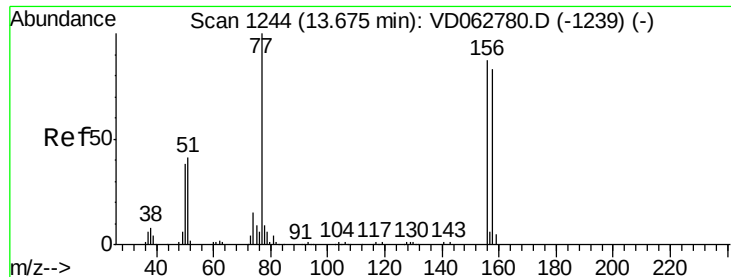
77 32.8 15.0 45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.246 ug/l

RT: 13.67 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

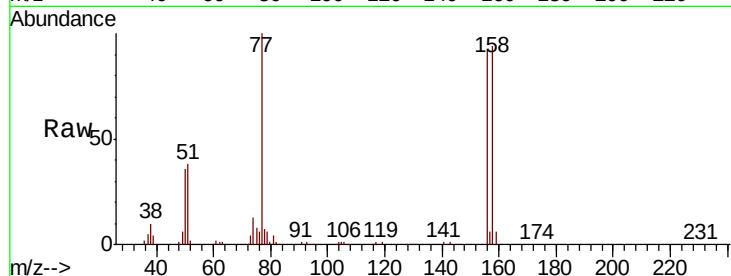
Tot Ion:156 Resp: 199186

Ion Ratio Lower Upper

156 100

77 108.7 57.7 173.1

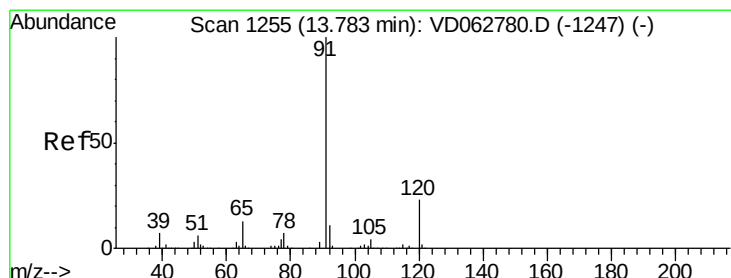
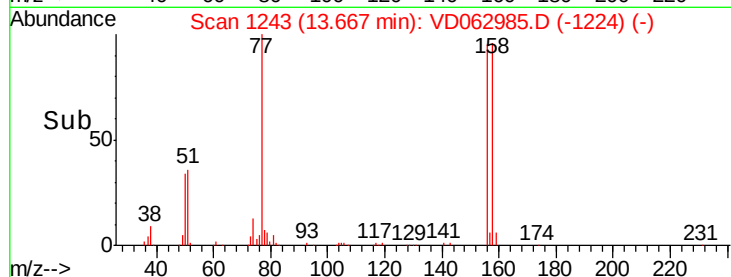
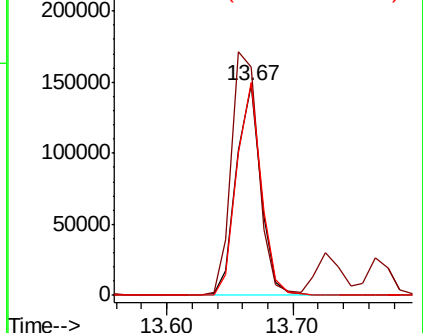
158 101.6 47.7 143.1



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: 19.718 ug/l

RT: 13.77 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD062985.D

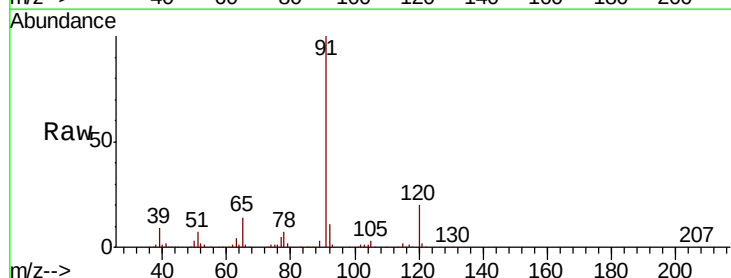
Acq: 1 Jul 2019 12:58

Tgt Ion: 91 Resp: 799949

Ion Ratio Lower Upper

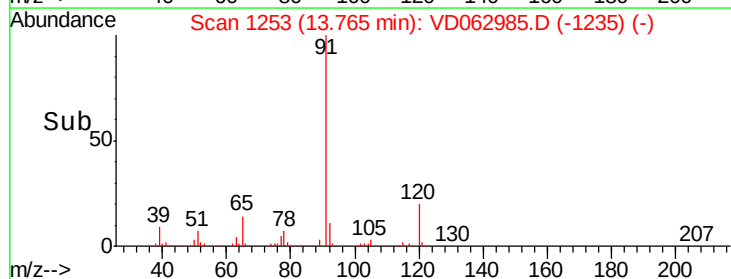
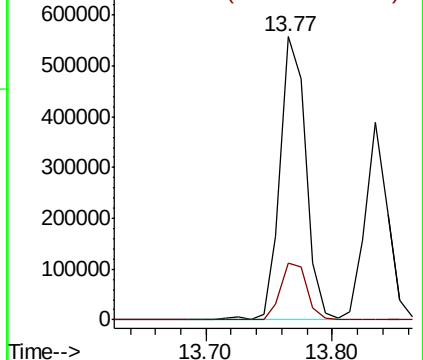
91 100

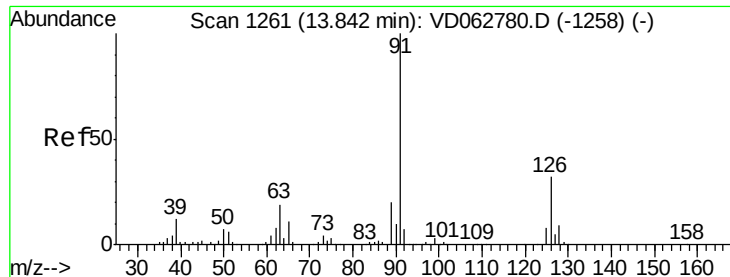
120 19.9 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

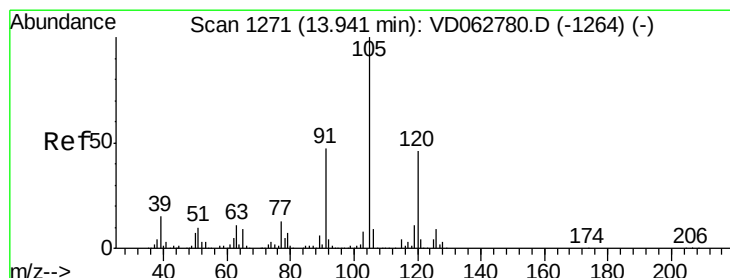
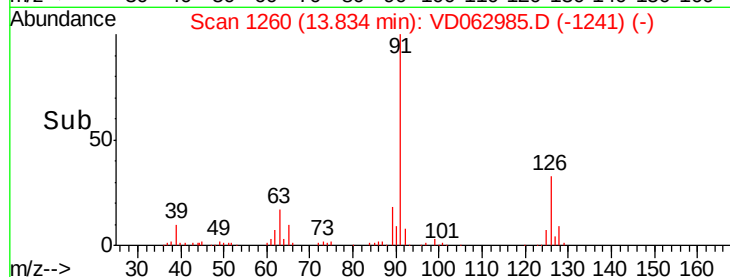
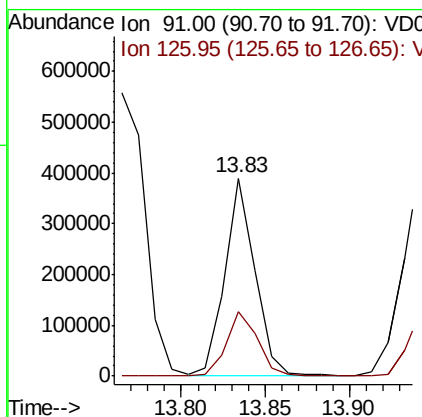
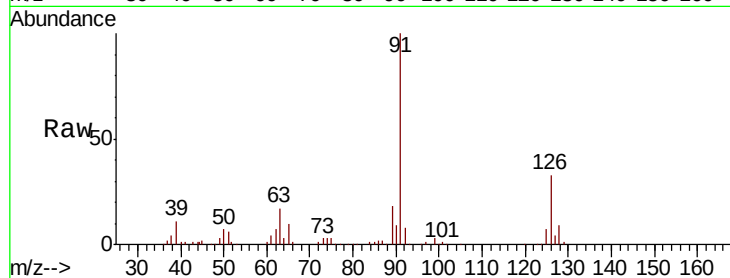




#79
 2-Chlorotoluene
 Concen: 20.835 ug/l
 RT: 13.83 min Scan# 1260
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

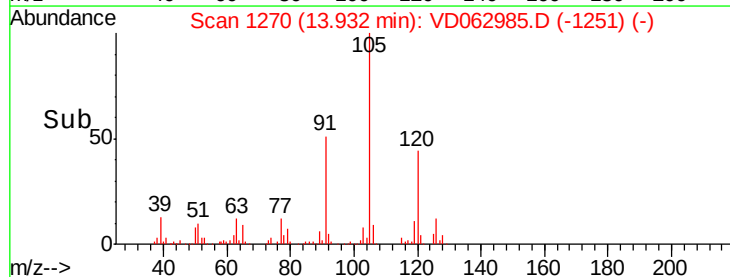
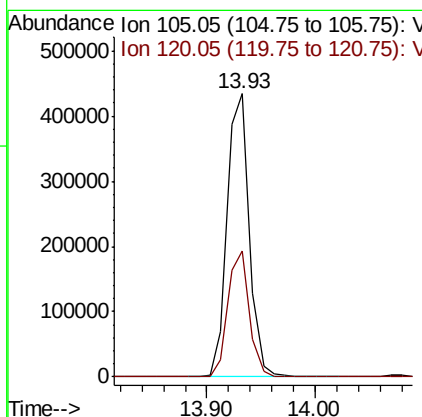
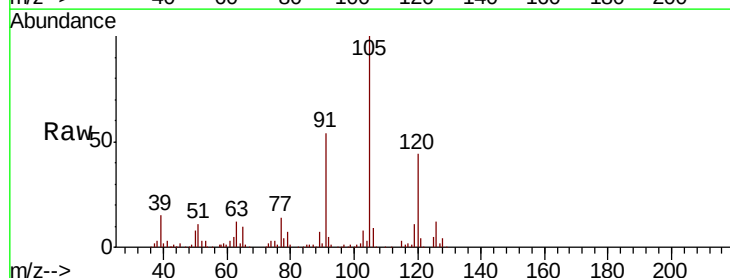
Instrument :
 MSVOA_D
 ClientSampled :

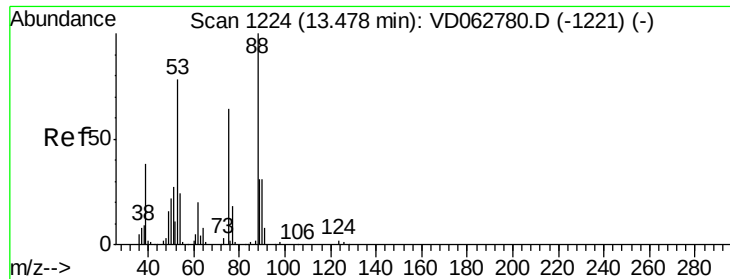
Tot Ion: 91 Resp: 483035
 Ion Ratio Lower Upper
 91 100
 126 32.6 15.7 47.1



#80
 1,3,5-Trimethylbenzene
 Concen: 21.041 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion: 105 Resp: 616017
 Ion Ratio Lower Upper
 105 100
 120 44.3 23.1 69.2

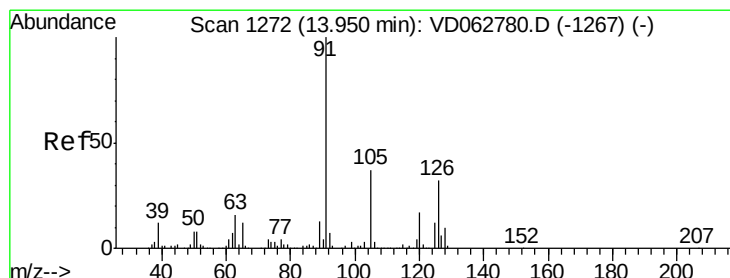
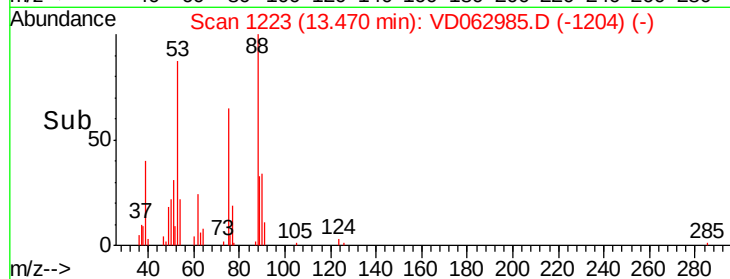
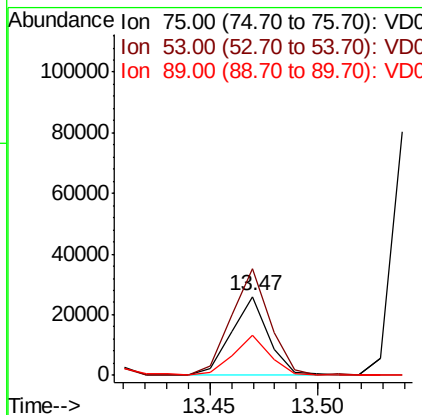
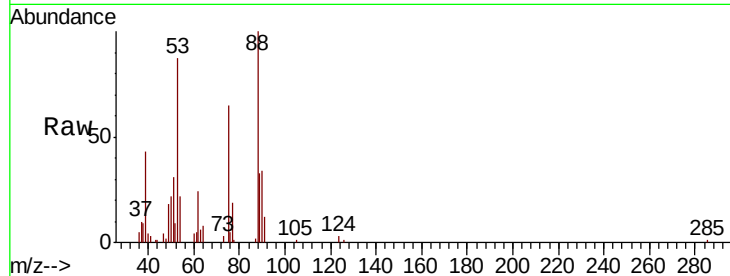




#81
trans-1,4-Dichloro-2-butene
Concen: 19.050 ug/l
RT: 13.47 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

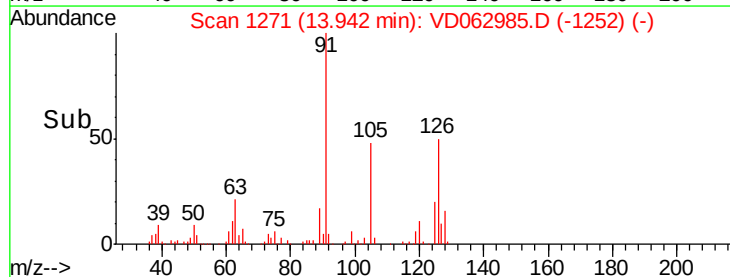
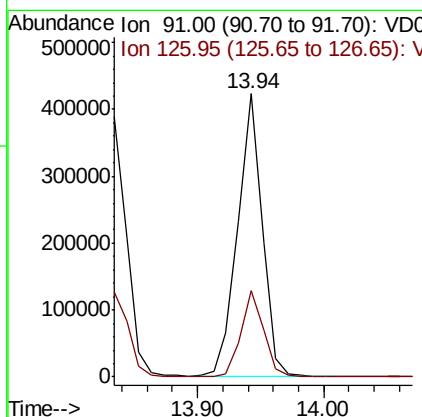
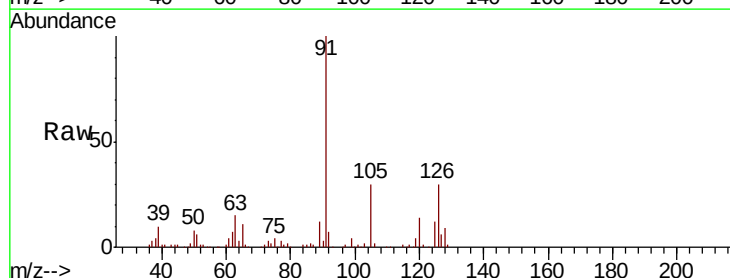
Instrument :
MSVOA_D
ClientSampleId :

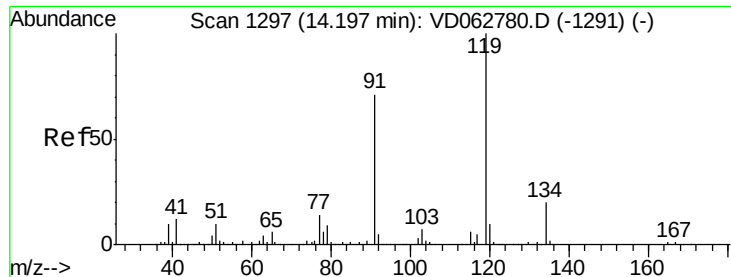
Tot Ion: 75 Resp: 31332
Ion Ratio Lower Upper
75 100
53 134.3 97.8 146.8
89 51.5 39.4 59.2



#82
4-Chlorotoluene
Concen: 20.429 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion: 91 Resp: 570211
Ion Ratio Lower Upper
91 100
126 30.3 16.0 47.9





#83

tert-Butylbenzene

Concen: 21.506 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampled :

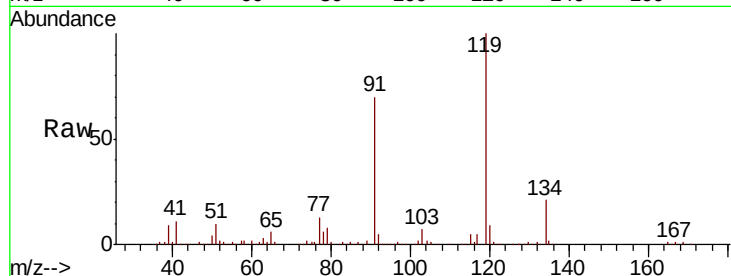
Tot Ion:119 Resp: 701834

Ion Ratio Lower Upper

119 100

91 69.6 35.5 106.5

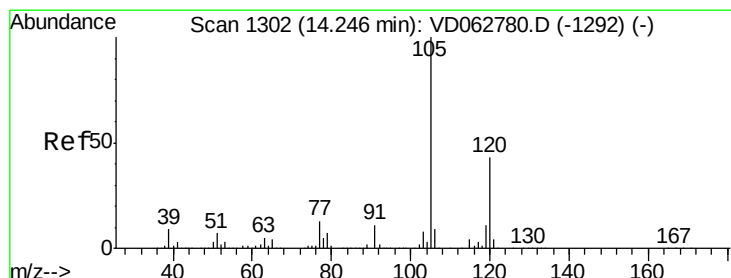
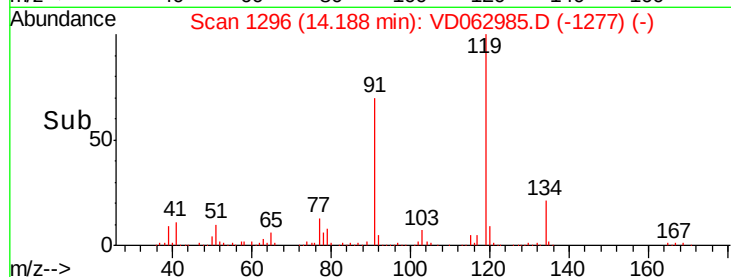
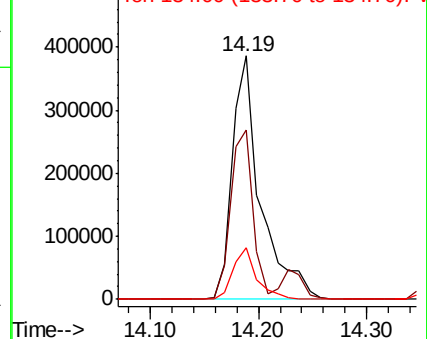
134 21.3 10.2 30.6



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: 20.715 ug/l

RT: 14.23 min Scan# 1300

Delta R.T. -0.02 min

Lab File: VD062985.D

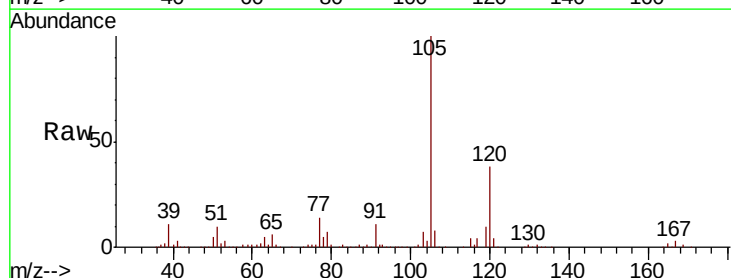
Acq: 1 Jul 2019 12:58

Tgt Ion:105 Resp: 621604

Ion Ratio Lower Upper

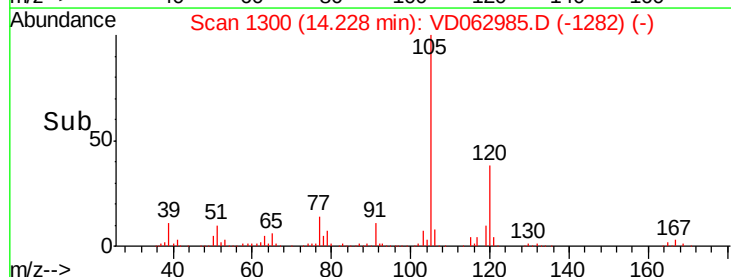
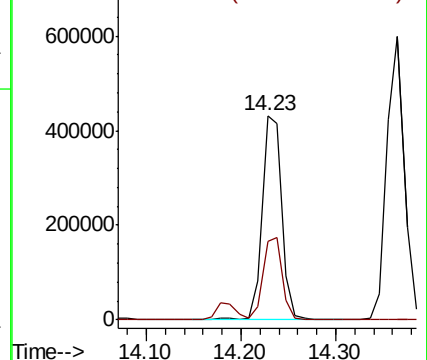
105 100

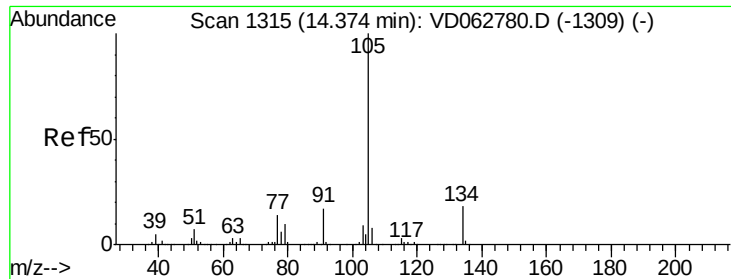
120 38.4 21.3 63.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 21.612 ug/l

RT: 14.37 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

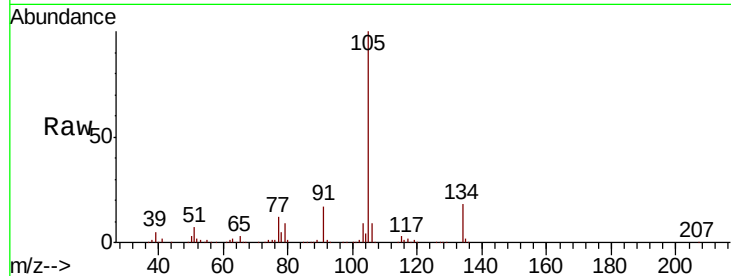
ClientSampleId :

Tot Ion:105 Resp: 766553

Ion Ratio Lower Upper

105 100

134 18.3 9.1 27.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

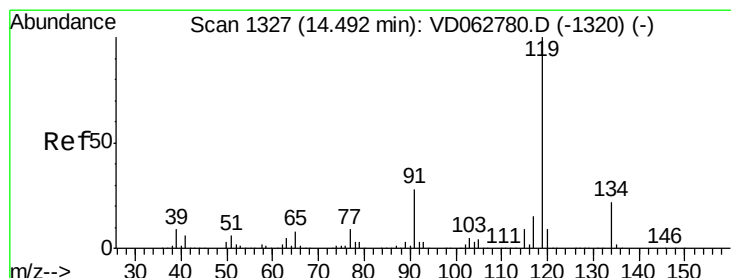
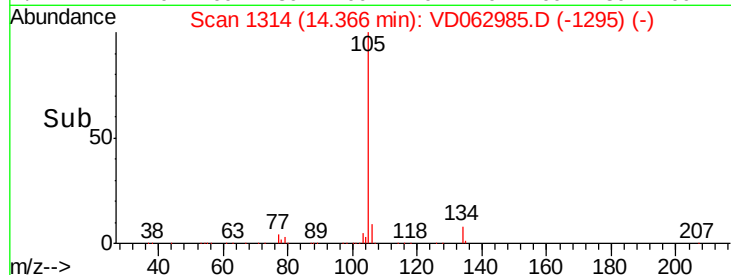
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.431 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

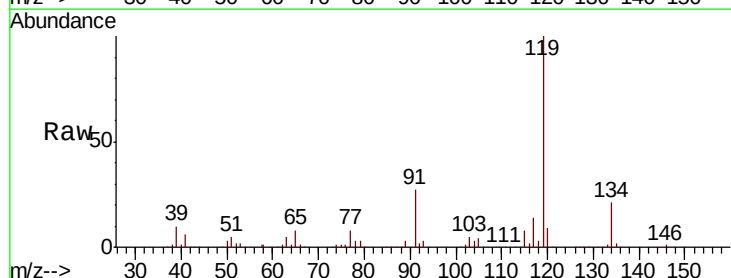
Tgt Ion:119 Resp: 695395

Ion Ratio Lower Upper

119 100

134 20.9 11.1 33.1

91 27.5 14.0 41.9



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

14.48

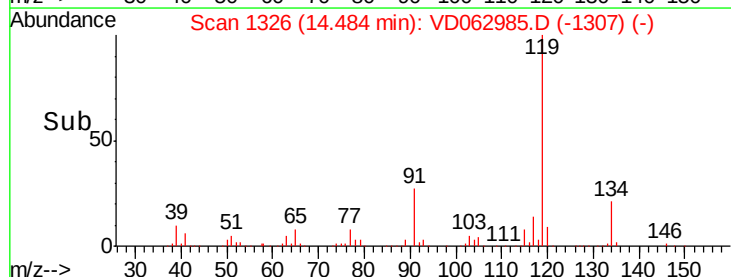
600000

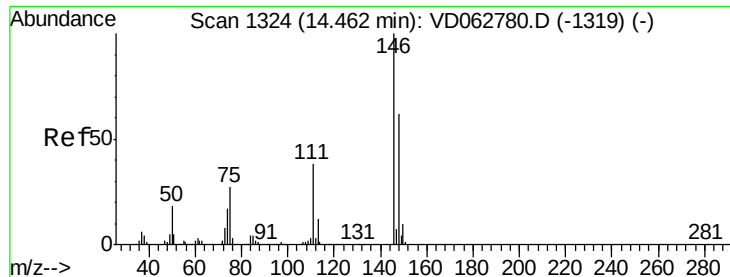
400000

200000

0

Time-->

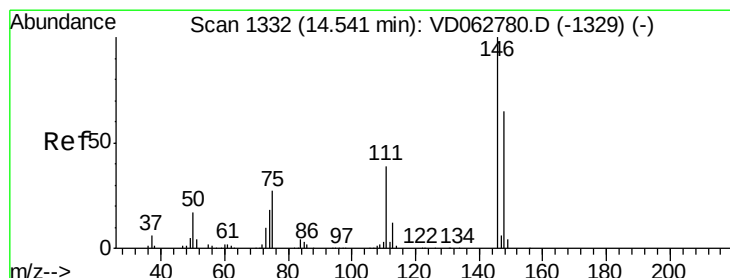
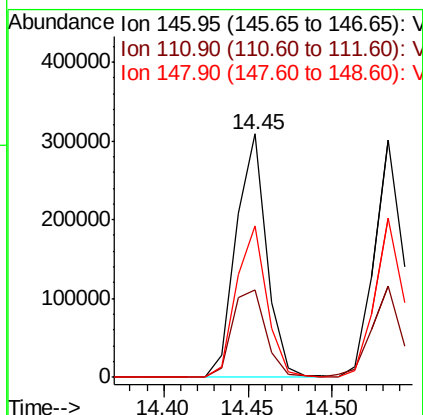
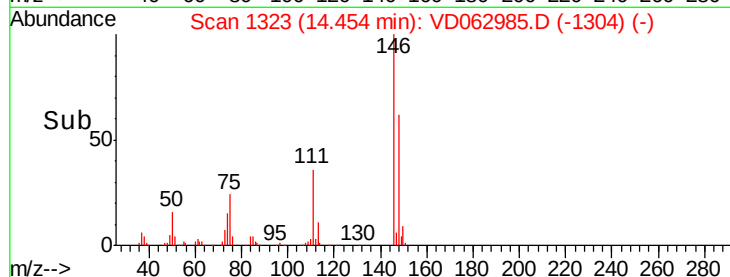
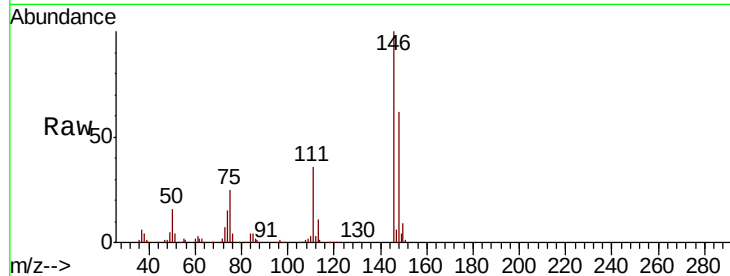




#87
 1,3-Dichlorobenzene
 Concen: 23.143 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

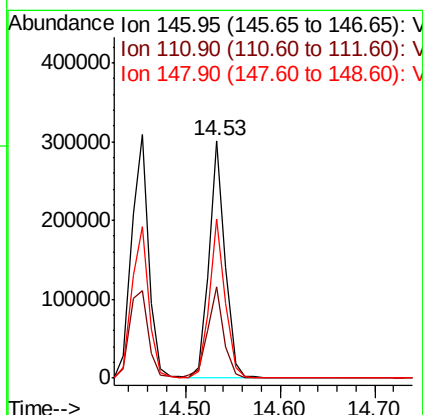
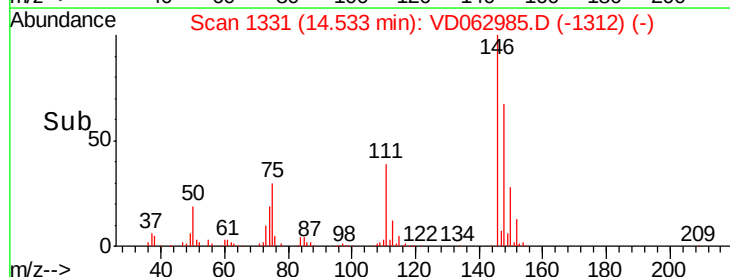
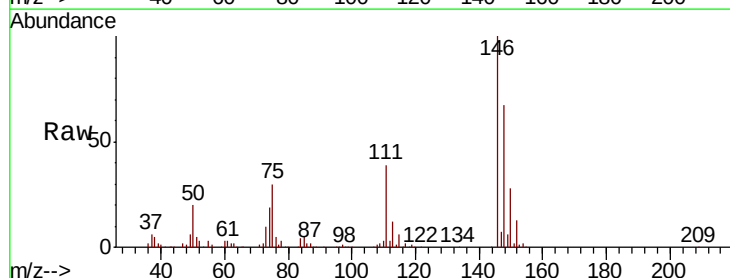
Instrument :
 MSVOA_D
 ClientSampleId :

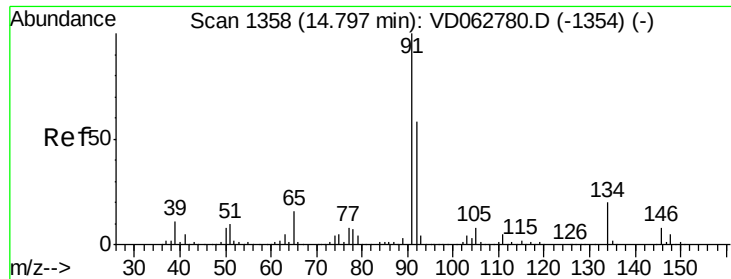
Tot Ion	Ratio	Lower	Upper
146	100		
111	35.7	19.0	57.0
148	62.0	30.8	92.3



#88
 1,4-Dichlorobenzene
 Concen: 21.331 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.7	59.1
148	67.1	32.8	98.3





#89

n-Butylbenzene

Concen: 20.959 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampleId :

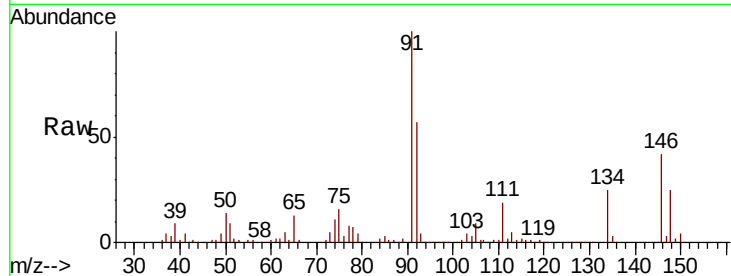
Tot Ion: 91 Resp: 636520

Ion Ratio Lower Upper

91 100

92 56.8 28.9 86.7

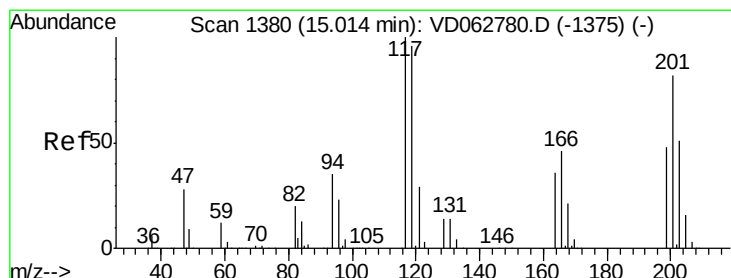
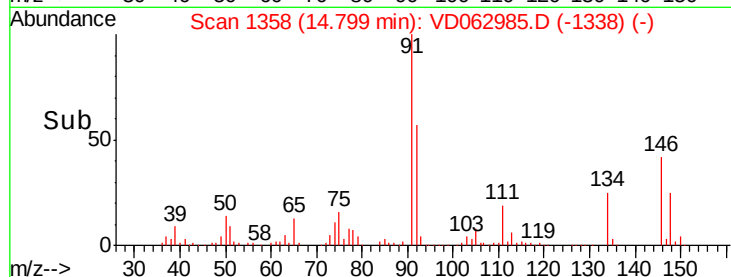
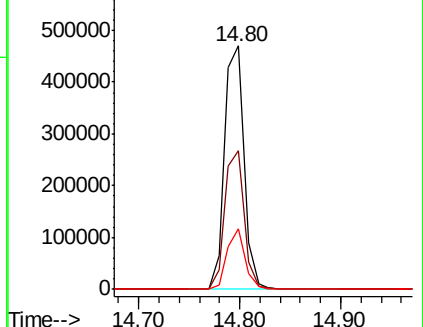
134 24.8 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 21.335 ug/l

RT: 15.01 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD062985.D

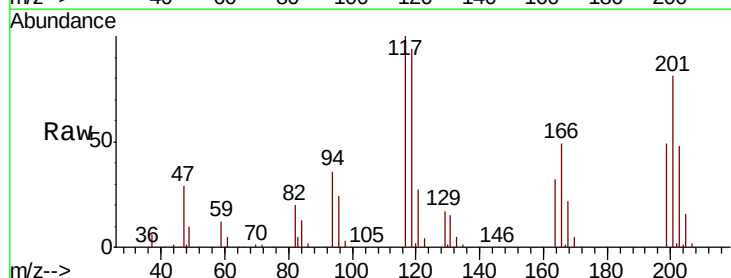
Acq: 1 Jul 2019 12:58

Tgt Ion: 117 Resp: 186138

Ion Ratio Lower Upper

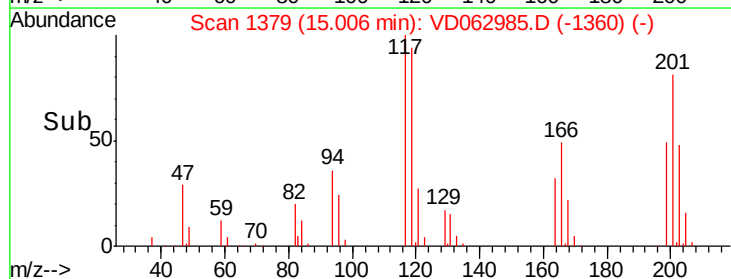
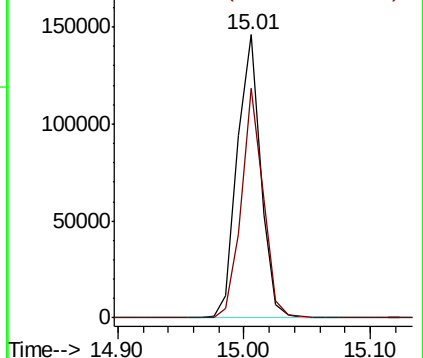
117 100

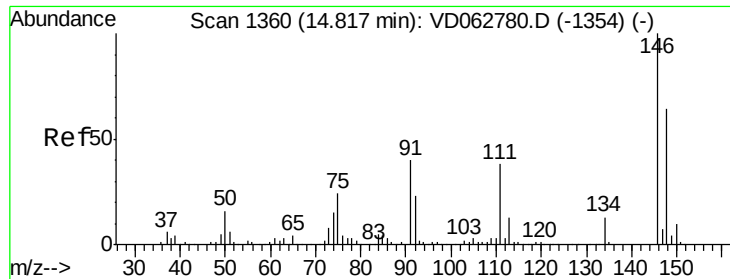
201 81.0 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 21.314 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

Instrument :

MSVOA_D

ClientSampled :

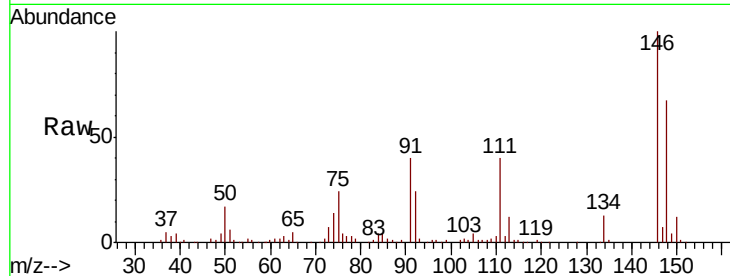
Tot Ion:146 Resp: 306458

Ion Ratio Lower Upper

146 100

111 39.5 19.1 57.1

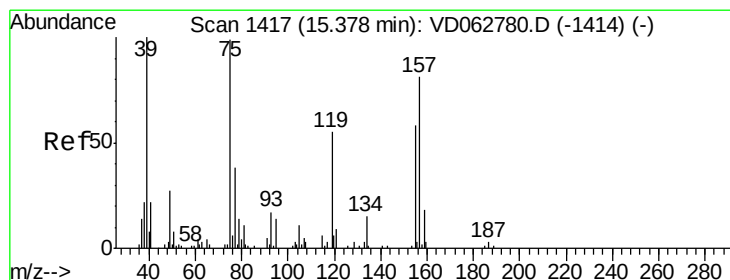
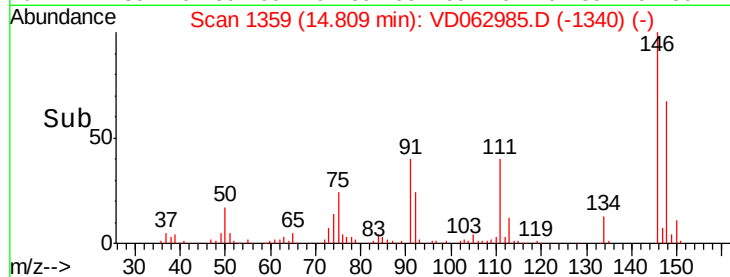
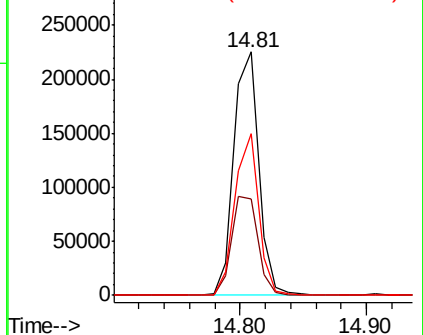
148 66.5 32.3 96.8



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: 23.000 ug/l

RT: 15.38 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VD062985.D

Acq: 1 Jul 2019 12:58

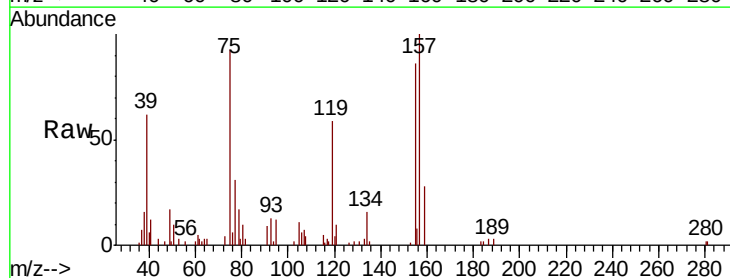
Tgt Ion: 75 Resp: 25494

Ion Ratio Lower Upper

75 100

155 92.2 29.3 87.8#

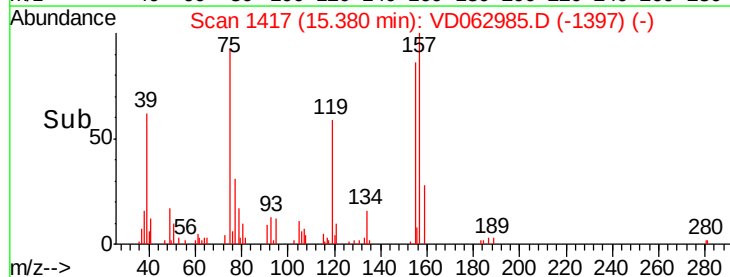
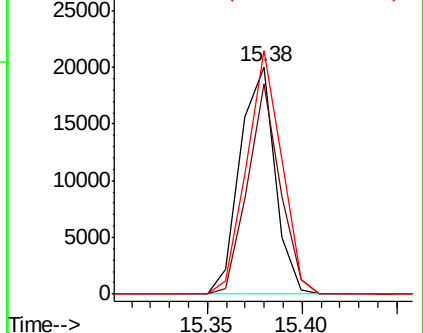
157 107.0 41.3 123.7

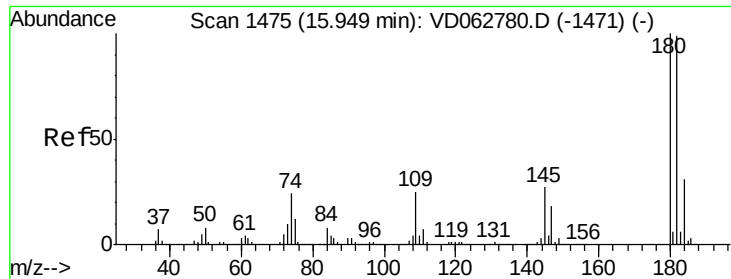


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

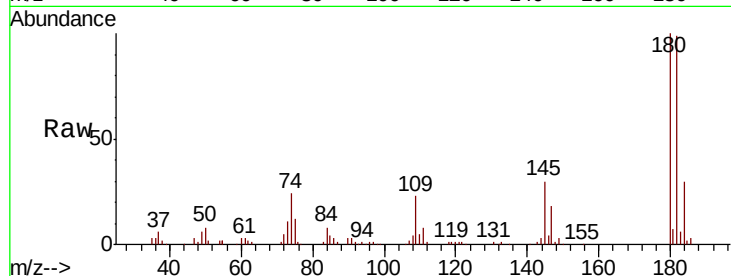




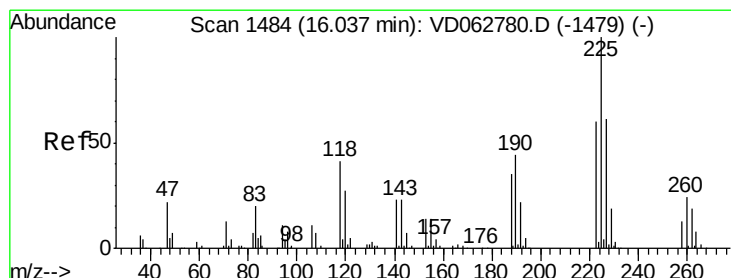
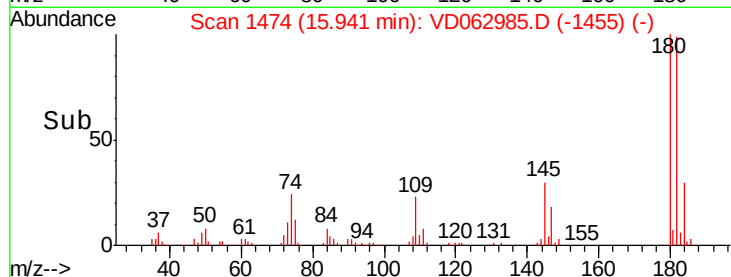
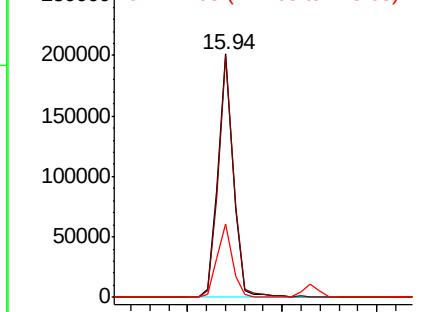
#93
 1,2,4-Trichlorobenzene
 Concen: 20.151 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion:180 Resp: 226332
 Ion Ratio Lower Upper
 180 100
 182 98.9 49.5 148.5
 145 30.3 13.7 41.0

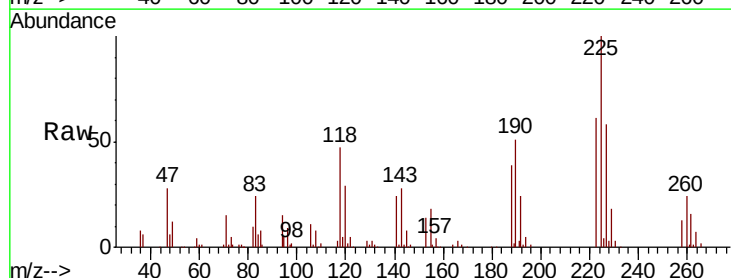


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

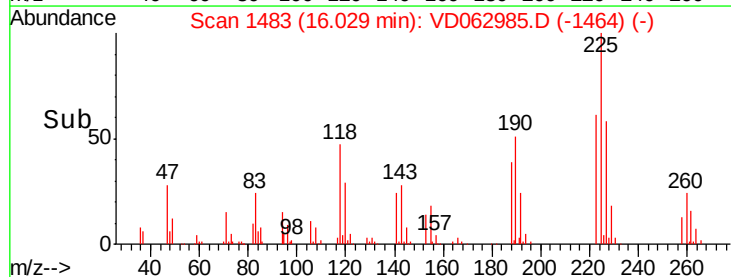
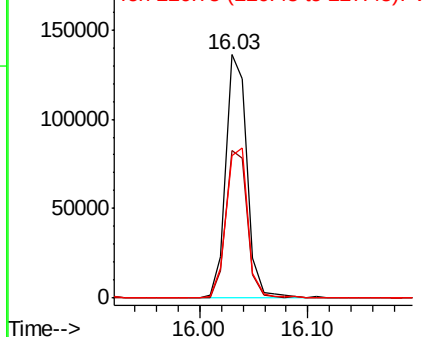


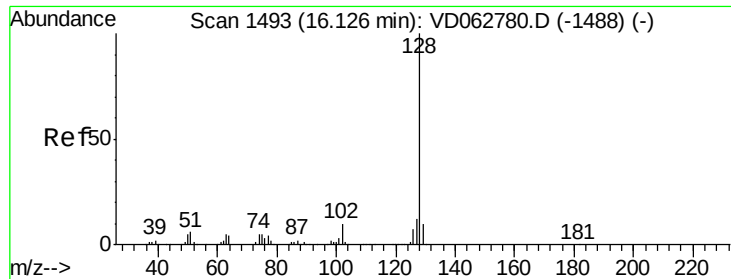
#94
 Hexachlorobutadiene
 Concen: 21.671 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. -0.01 min
 Lab File: VD062985.D
 Acq: 1 Jul 2019 12:58

Tgt Ion:225 Resp: 185949
 Ion Ratio Lower Upper
 225 100
 223 60.6 29.8 89.5
 227 58.5 30.6 91.6



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

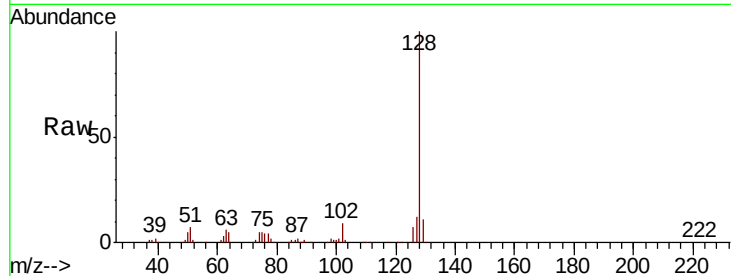




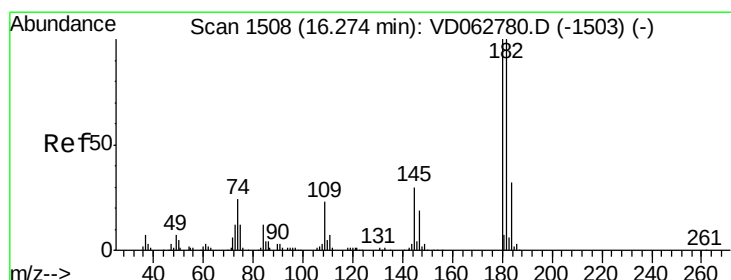
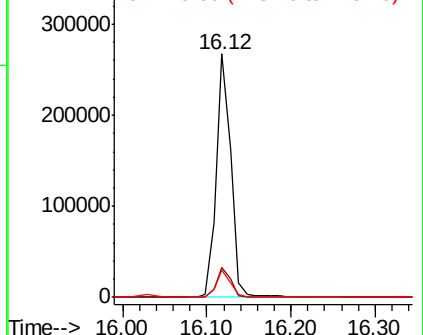
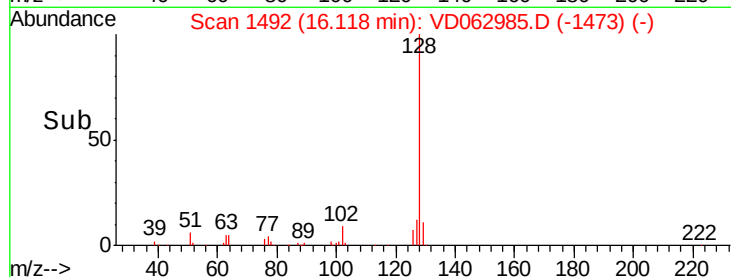
#95
Naphthalene
Concen: 20.465 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 322179
Ion Ratio Lower Upper
128 100
127 12.1 9.7 14.5
129 11.0 8.3 12.5

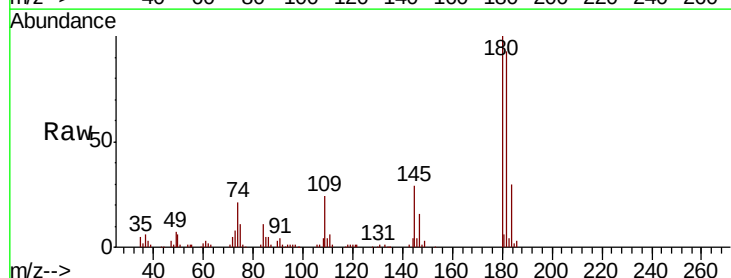


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 20.231 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD062985.D
Acq: 1 Jul 2019 12:58

Tgt Ion:180 Resp: 174589
Ion Ratio Lower Upper
180 100
182 93.1 49.9 149.6
145 29.2 15.2 45.5



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

