

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061320.D
 Acq On : 26 Mar 2019 1:59
 Operator : VA/AP
 Sample : K2045-02MS
 Misc : 4.81g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

Quant Time: Mar 26 04:31:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	146437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	283155	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	256641	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	106595	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	117488	92.99	ug/l	0.00
Spiked Amount			Recovery	=	185.98%	
35) Dibromofluoromethane	6.92	113	137607	63.51	ug/l	-0.02
Spiked Amount			Recovery	=	127.02%	
50) Toluene-d8	10.41	98	306966	58.43	ug/l	0.00
Spiked Amount			Recovery	=	116.86%	
62) 4-Bromofluorobenzene	13.56	95	110536	53.94	ug/l	0.00
Spiked Amount			Recovery	=	107.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	59626	39.825	ug/l	90
3) Chloromethane	1.76	50	69145	59.203	ug/l	91
4) Vinyl Chloride	1.86	62	52544	48.116	ug/l	100
5) Bromomethane	2.16	94	14027	63.285	ug/l	96
6) Chloroethane	2.27	64	19996	58.204	ug/l	96
7) Trichlorofluoromethane	2.54	101	65256	40.426	ug/l	97
8) Diethyl Ether	2.88	74	51967	108.275	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.16	101	71425	43.473	ug/l	98
10) Methyl Iodide	3.32	142	103326	45.015	ug/l	96
11) Tert butyl alcohol	4.07	59	80639	1198.998	ug/l	97
12) 1,1-Dichloroethene	3.13	96	68838	48.692	ug/l	99
13) Acrolein	3.04	56	31314	425.363	ug/l	98
14) Allyl chloride	3.62	41	133136	66.385	ug/l	92
15) Acrylonitrile	4.20	53	247187	1045.079	ug/l	98
16) Acetone	3.23	43	410894	1359.668	ug/l	97
17) Carbon Disulfide	3.39	76	193349	41.180	ug/l	99
18) Methyl Acetate	3.64	43	161572	282.855	ug/l	99
19) Methyl tert-butyl Ether	4.24	73	275836	110.788	ug/l	99
20) Methylene Chloride	3.82	84	118254	68.945	ug/l	99
21) trans-1,2-Dichloroethene	4.22	96	89707	56.720	ug/l	98
22) Diisopropyl ether	5.12	45	327518	77.523	ug/l	97
23) Vinyl Acetate	5.06	43	989712	438.620	ug/l	99
24) 1,1-Dichloroethane	4.99	63	161772	65.709	ug/l	97
25) 2-Butanone	6.06	43	391186	1119.149	ug/l	98
26) 2,2-Dichloropropane	6.02	77	99341	47.520	ug/l	98
27) cis-1,2-Dichloroethene	6.03	96	117834	69.233	ug/l	94
28) Bromochloromethane	6.44	49	89606	86.955	ug/l	94
29) Tetrahydrofuran	6.45	42	191006	1097.843	ug/l	100
30) Chloroform	6.66	83	177132	67.517	ug/l	99
31) Cyclohexane	6.95	56	82558	41.316	ug/l	97
32) 1,1,1-Trichloroethane	6.87	97	116876	50.301	ug/l	99
36) 1,1-Dichloropropene	7.15	75	99140	42.794	ug/l	97
37) Ethyl Acetate	6.18	43	164709	170.219	ug/l #	97
38) Carbon Tetrachloride	7.11	117	121094	45.734	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	69832	29.105	ug/l	95
40) Benzene	7.45	78	321444	55.869	ug/l	97
41) Methacrylonitrile	6.45	41	192197	170.928	ug/l	95
42) 1,2-Dichloroethane	7.58	62	137974	76.946	ug/l	99
43) Isopropyl Acetate	9.23	43	192489	137.965	ug/l	100
44) Trichloroethene	8.54	130	101006	48.542	ug/l	97
45) 1,2-Dichloropropane	8.94	63	94350	66.442	ug/l	97
46) Dibromomethane	9.06	93	90217	92.685	ug/l	96
47) Bromodichloromethane	9.37	83	151085	66.223	ug/l	99
48) Methyl methacrylate	9.12	41	113424	152.314	ug/l	96
49) 1,4-Dioxane	9.08	88	39499	4834.325	ug/l	91
51) 4-Methyl-2-Pentanone	10.30	43	722245	869.591	ug/l	100
52) Toluene	10.50	92	197139	55.998	ug/l	97
53) t-1,3-Dichloropropene	10.91	75	162509	81.963	ug/l	96
54) cis-1,3-Dichloropropene	10.03	75	163351	67.470	ug/l	98
55) 1,1,2-Trichloroethane	11.18	97	109366	93.572	ug/l	99
56) Ethyl methacrylate	11.04	69	136120	109.141	ug/l	98
57) 1,3-Dichloropropane	11.40	76	158675	89.892	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.85	63	393364	606.259	ug/l	99
59) 2-Hexanone	11.53	43	553948	918.309	ug/l	99
60) Dibromochloromethane	11.69	129	163689	89.418	ug/l	98
61) 1,2-Dibromoethane	11.80	107	150337	110.087	ug/l	98
64) Tetrachloroethene	11.25	164	75726	42.833	ug/l	97
65) Chlorobenzene	12.39	112	283771	60.031	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	114048	62.229	ug/l	96
67) Ethyl Benzene	12.52	91	344251	47.586	ug/l	99
68) m/p-Xylenes	12.66	106	260893	92.386	ug/l	98
69) o-Xylene	13.04	106	133878	51.116	ug/l	98
70) Styrene	13.07	104	230801	51.925	ug/l	93
71) Bromoform	13.23	173	112336	100.165	ug/l #	98
73) Isopropylbenzene	13.40	105	307812	44.397	ug/l	98
74) N-amyl acetate	13.26	43	141539	78.030	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.69	83	163351	121.496	ug/l	97
76) 1,2,3-Trichloropropane	13.73	75	173808	131.113	ug/l	97
77) Bromobenzene	13.66	156	107746	55.636	ug/l	98
78) n-propylbenzene	13.77	91	364288	46.572	ug/l	96
79) 2-Chlorotoluene	13.84	91	224508	49.296	ug/l	94
80) 1,3,5-Trimethylbenzene	14.24	105	256730	46.939	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	51498	123.096	ug/l	98
82) 4-Chlorotoluene	13.94	91	266871	53.600	ug/l	97
83) tert-Butylbenzene	14.19	119	272631	43.657	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	256730	46.939	ug/l	97
85) sec-Butylbenzene	14.36	105	240637	34.600	ug/l	96
86) p-Isopropyltoluene	14.49	119	218036	35.140	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	187595	54.649	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	189638	57.030	ug/l	96
89) n-Butylbenzene	14.80	91	165611	30.063	ug/l	98
90) Hexachloroethane	15.00	117	59289	35.639	ug/l	89
91) 1,2-Dichlorobenzene	14.81	146	218786	79.875	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25224	150.138	ug/l	78

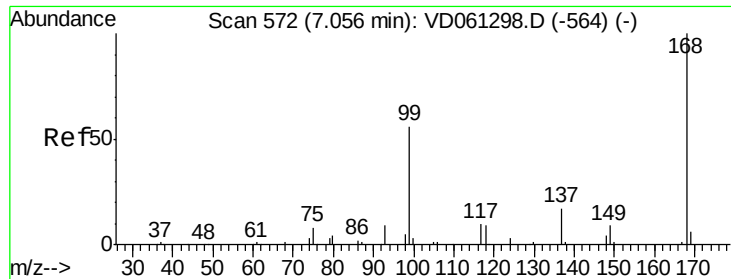
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	61163	48.349	ug/l	98
94) Hexachlorobutadiene	16.04	225	18367	18.019	ug/l	98
95) Naphthalene	16.13	128	200336	108.535	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	32058	54.258	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

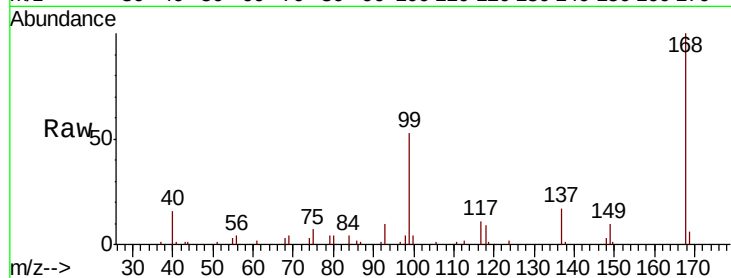
WP022SB439-190318-(13-14)MS

Tot Ion:168 Resp: 146437

Ion Ratio Lower Upper

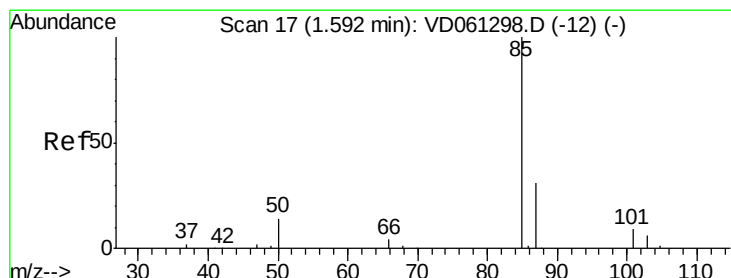
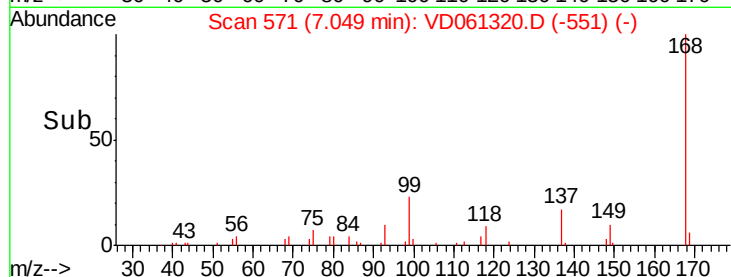
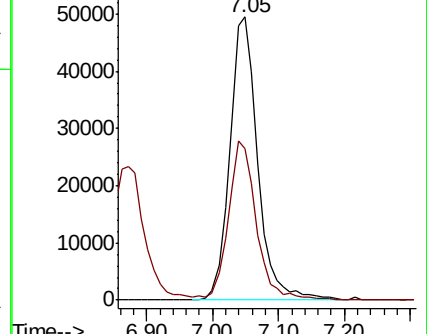
168 100

99 53.3 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 39.825 ug/l

RT: 1.59 min Scan# 16

Delta R.T. -0.01 min

Lab File: VD061320.D

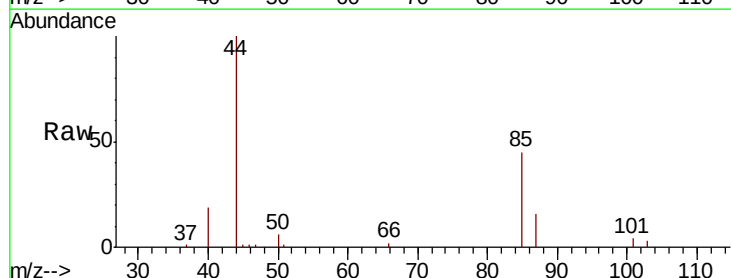
Acq: 26 Mar 2019 1:59

Tgt Ion: 85 Resp: 59626

Ion Ratio Lower Upper

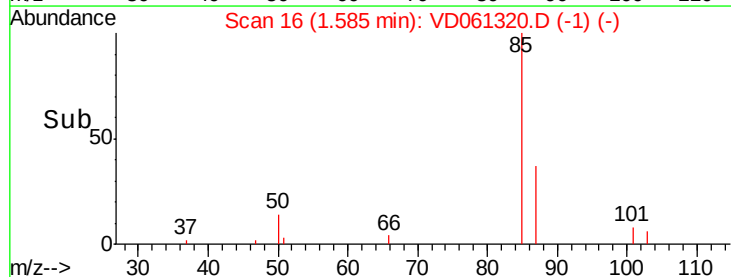
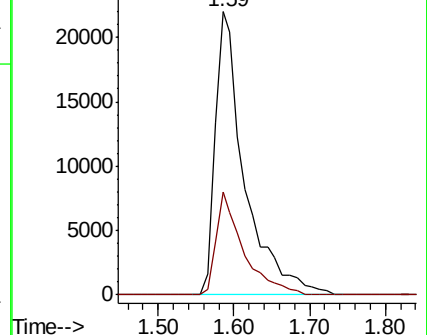
85 100

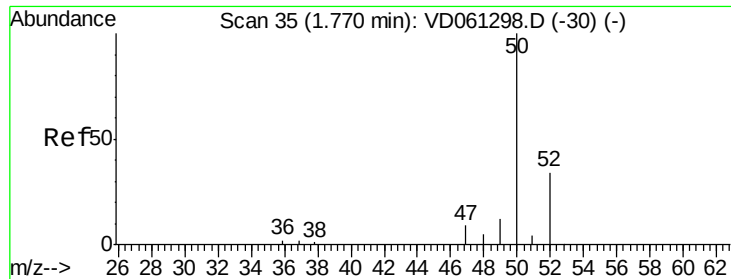
87 36.5 15.4 46.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 59.203 ug/l

RT: 1.76 min Scan# 34

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

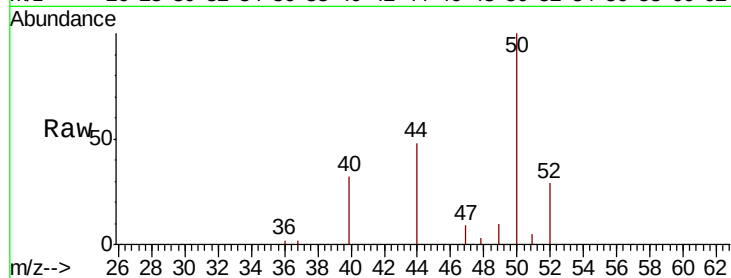
WP022SB439-190318-(13-14)MS

Tot Ion: 50 Resp: 69145

Ion Ratio Lower Upper

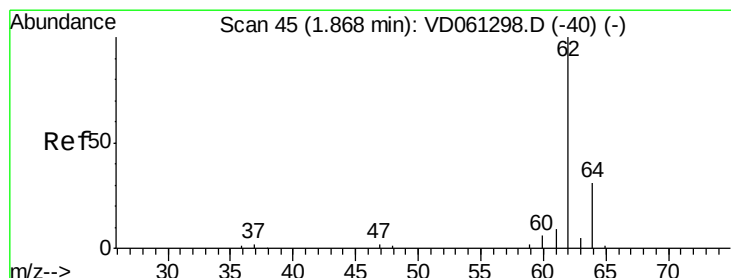
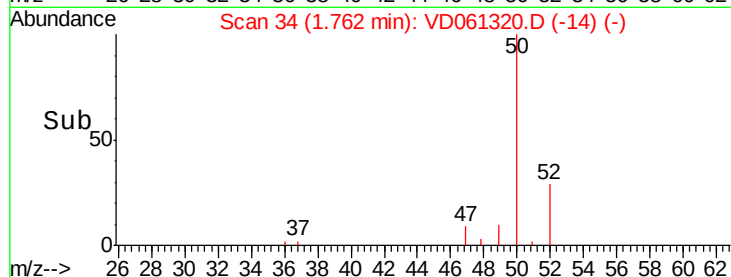
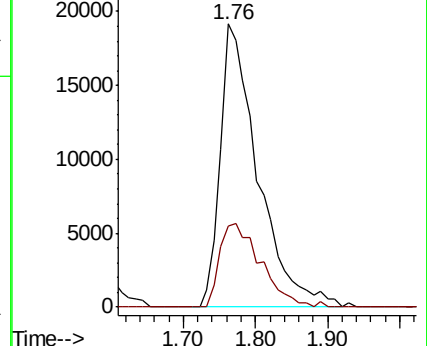
50 100

52 28.7 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.116 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061320.D

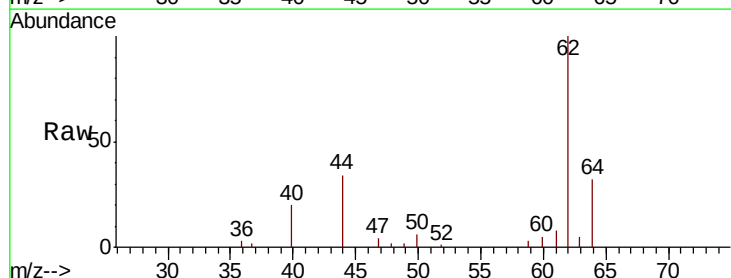
Acq: 26 Mar 2019 1:59

Tgt Ion: 62 Resp: 52544

Ion Ratio Lower Upper

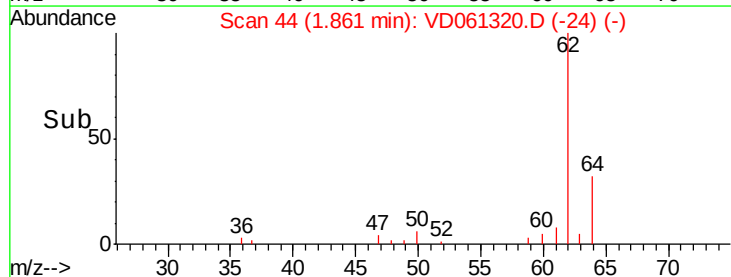
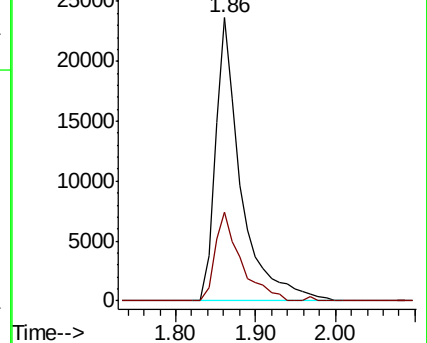
62 100

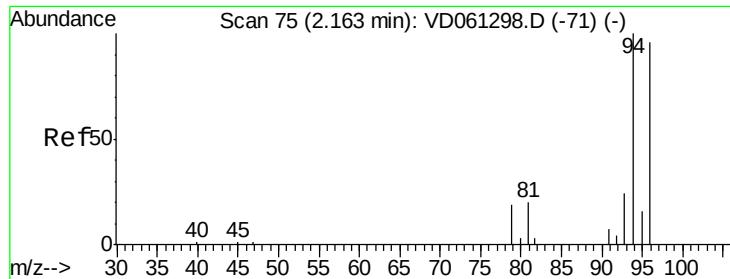
64 31.6 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

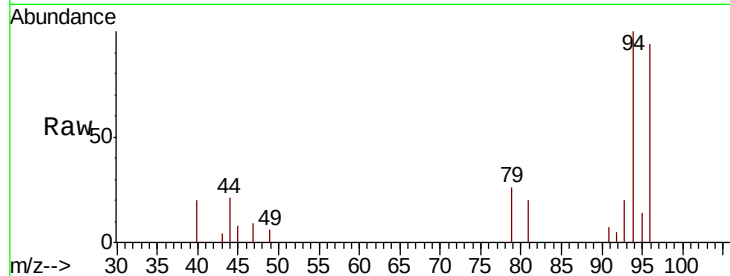




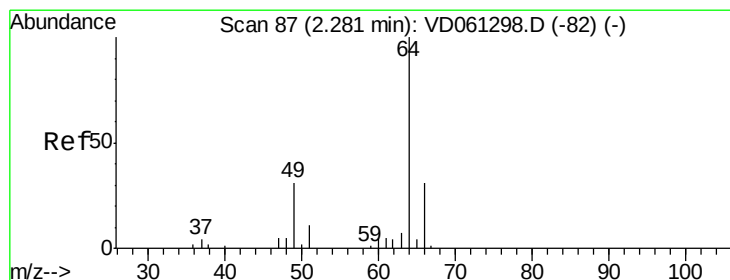
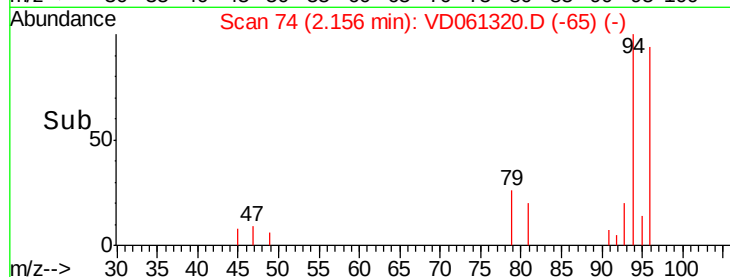
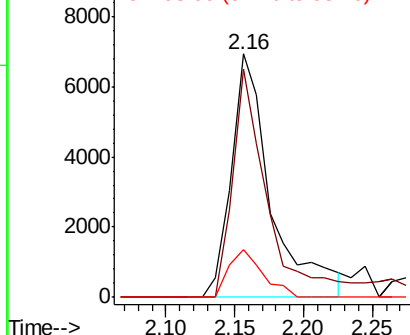
#5
Bromomethane
Concen: 63.285 ug/l
RT: 2.16 min Scan# 74
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

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Tot Ion: 94 Resp: 14027
Ion Ratio Lower Upper
94 100
96 93.6 76.9 115.3
93 19.9 18.8 28.2

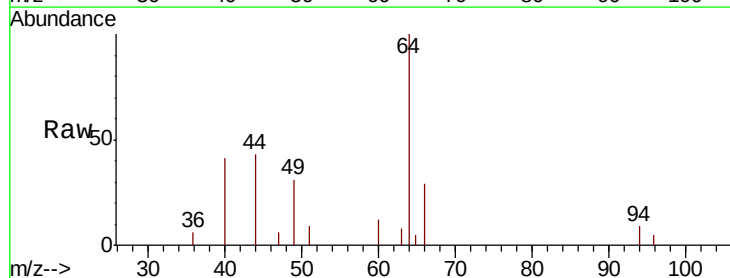


Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC

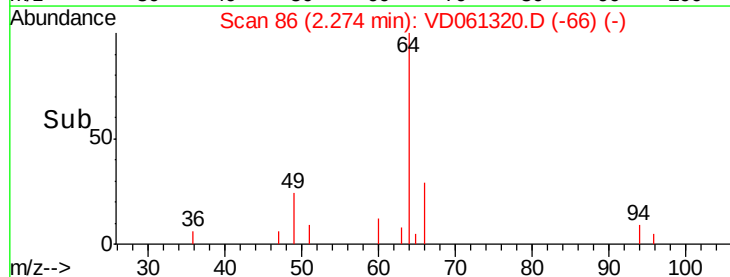
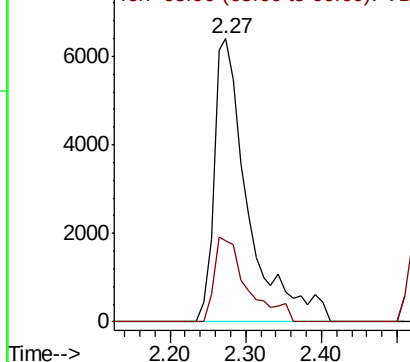


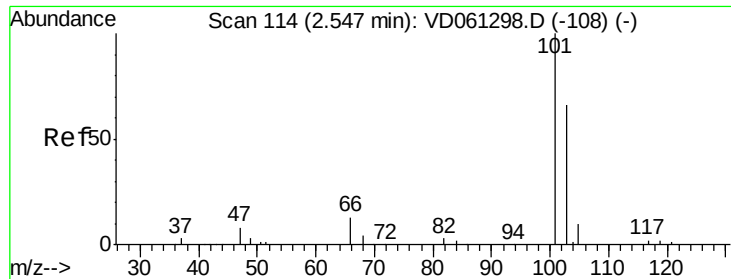
#6
Chloroethane
Concen: 58.204 ug/l
RT: 2.27 min Scan# 86
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 64 Resp: 19996
Ion Ratio Lower Upper
64 100
66 28.6 24.6 36.8



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



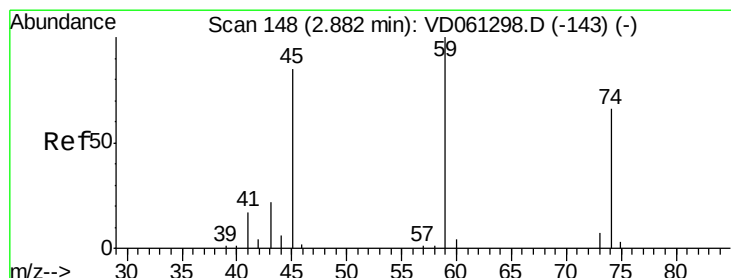
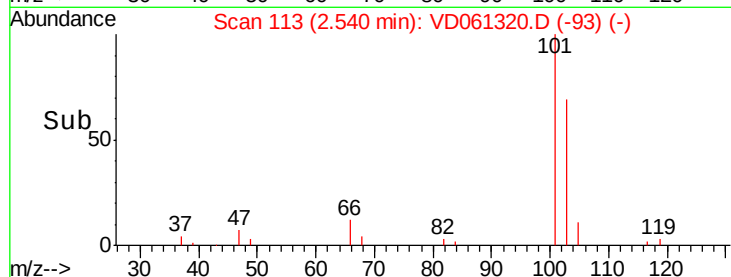
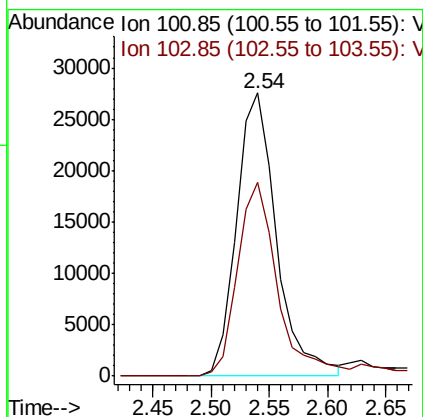
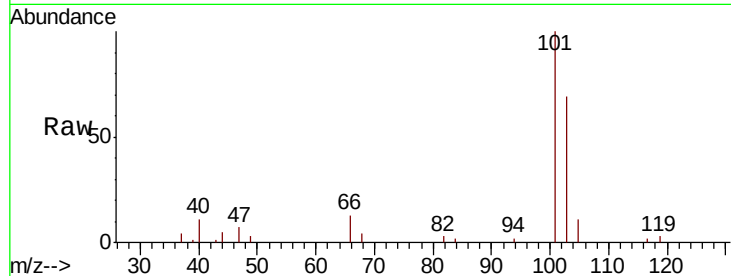


#7

Trichlorofluoromethane
 Concen: 40.426 ug/l
 RT: 2.54 min Scan# 113
 Delta R.T. -0.01 min
 Lab File: VD061320.D
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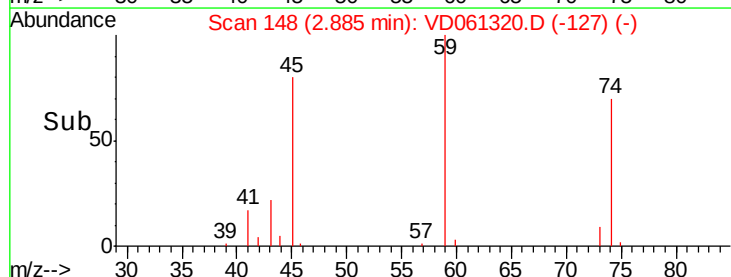
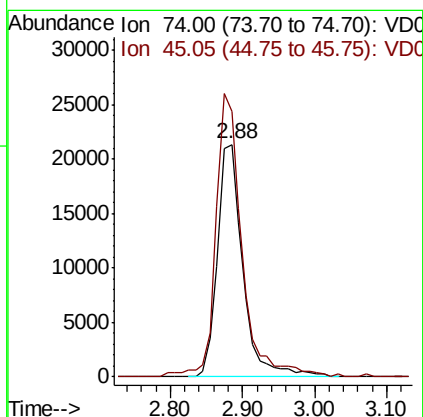
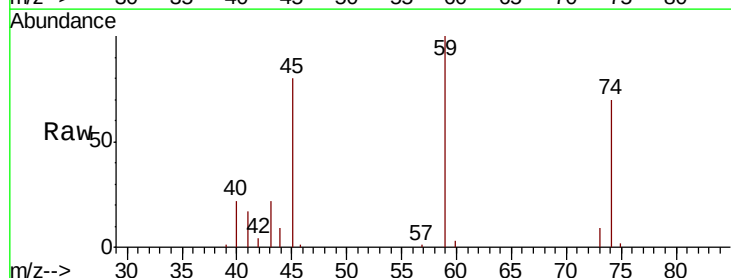
Tot Ion:101 Resp: 65256
 Ion Ratio Lower Upper
 101 100
 103 68.5 52.6 79.0

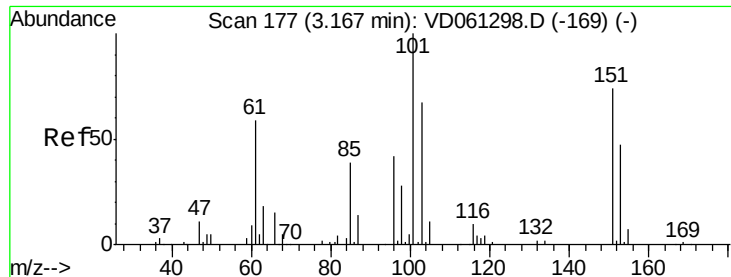


#8

Diethyl Ether
 Concen: 108.275 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.00 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 74 Resp: 51967
 Ion Ratio Lower Upper
 74 100
 45 114.3 64.3 192.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.473 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VD061320.D

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Instrument :

MSVOA_D

ClientSampleId :

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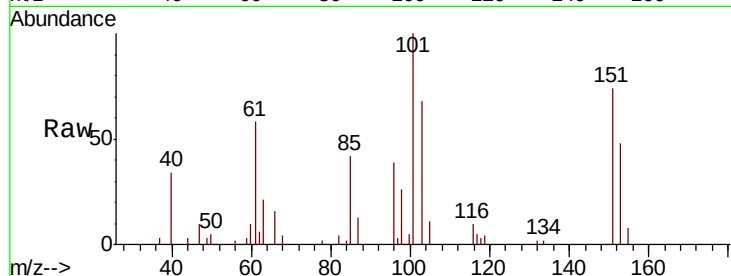
Tot Ion:101 Resp: 71425

Ion Ratio Lower Upper

101 100

85 41.8 31.6 47.4

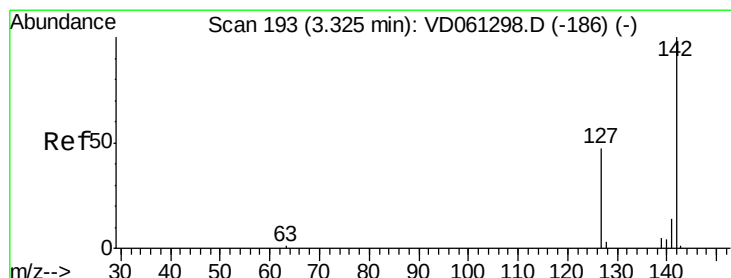
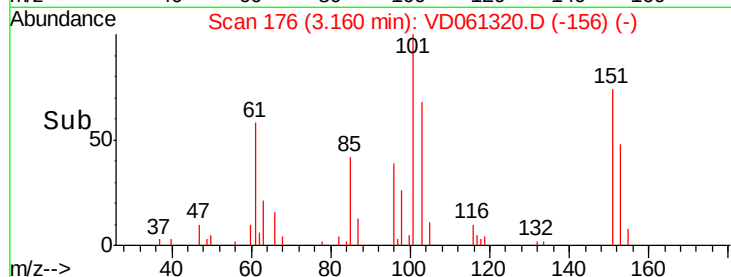
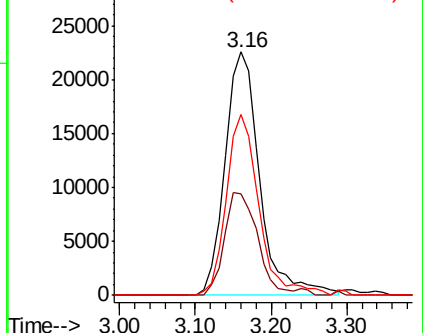
151 74.5 59.3 88.9



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 45.015 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

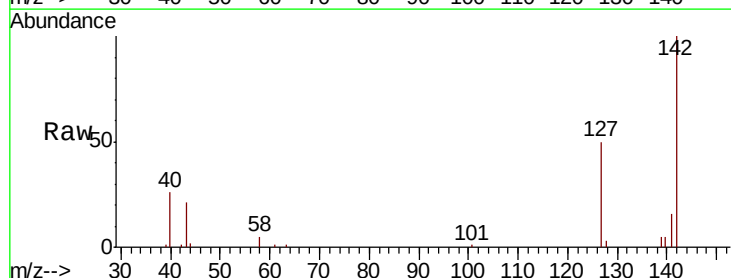
Tgt Ion:142 Resp: 103326

Ion Ratio Lower Upper

142 100

127 50.3 37.8 56.6

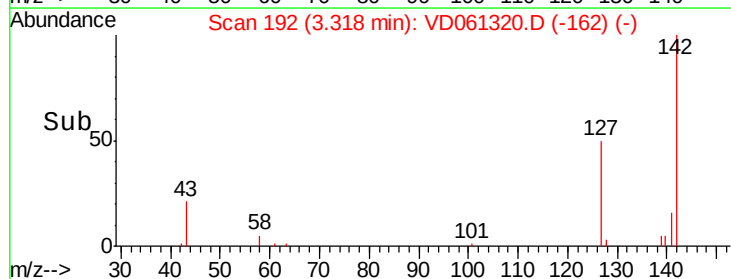
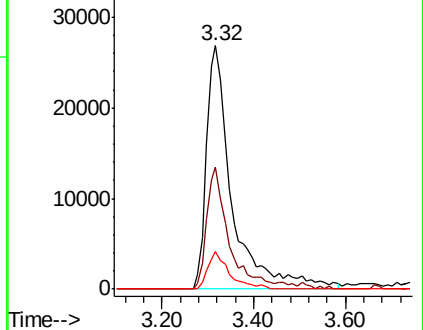
141 15.5 11.6 17.4

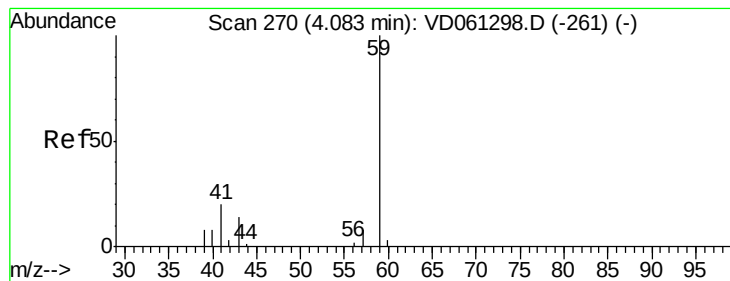


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



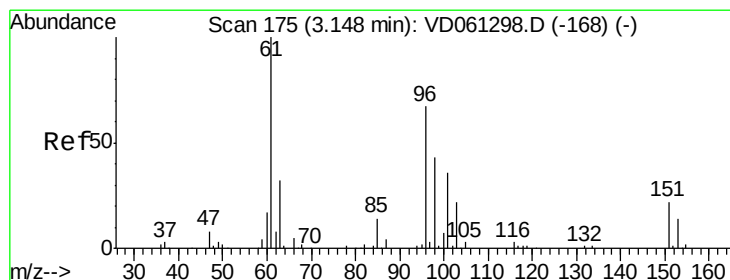
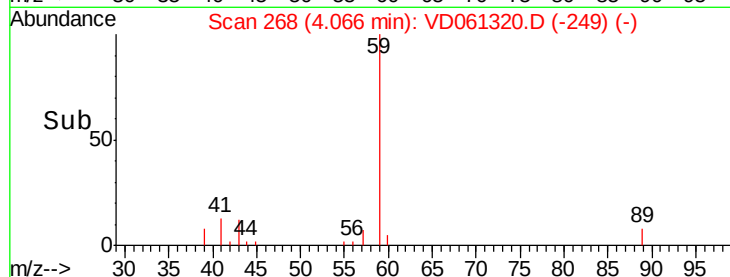
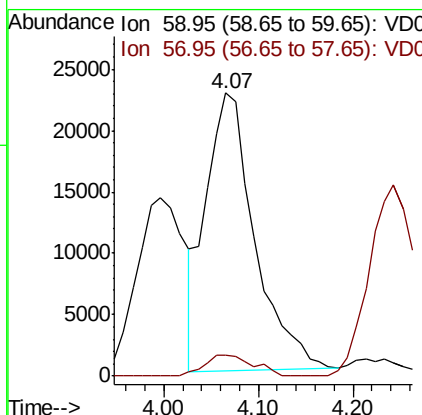
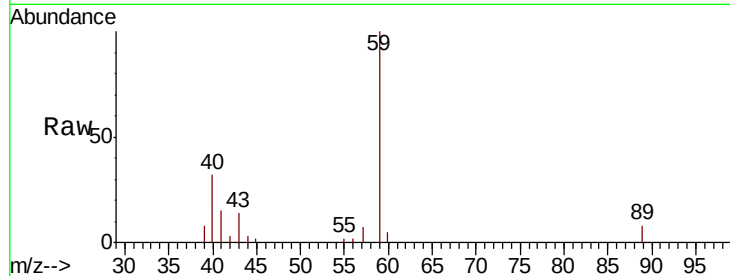


#11

Tert butyl alcohol
 Concen: 1198.998 ug/l
 RT: 4.07 min Scan# 268
 Delta R.T. -0.02 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

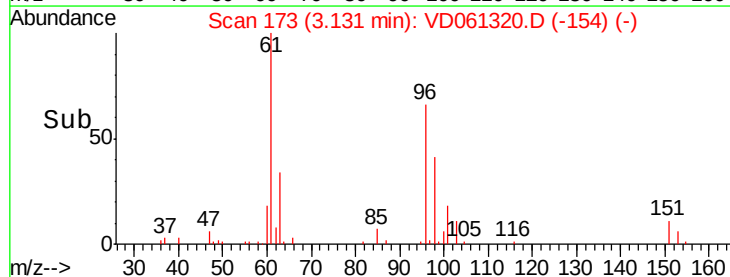
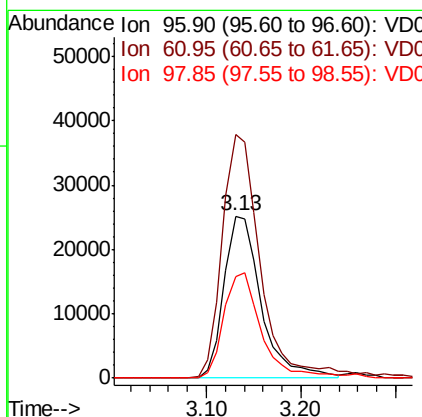
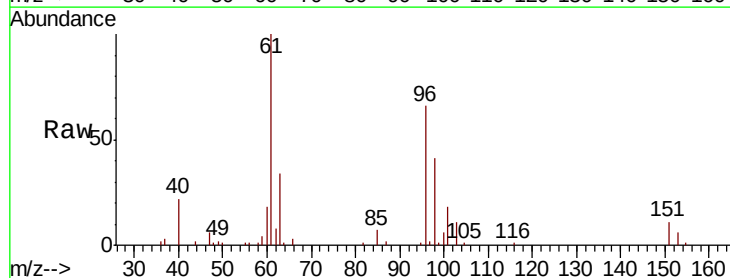
Tot Ion: 59 Resp: 80639
 Ion Ratio Lower Upper
 59 100
 57 7.2 6.6 9.8

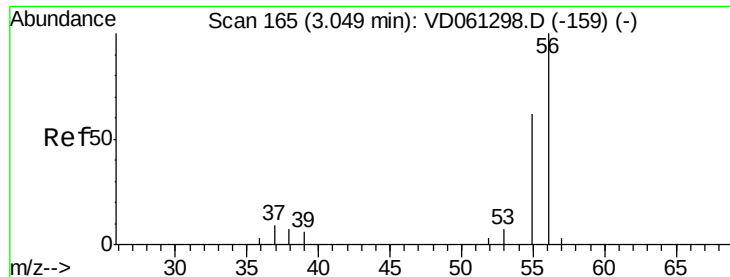


#12

1,1-Dichloroethene
 Concen: 48.692 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. -0.02 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 96 Resp: 68838
 Ion Ratio Lower Upper
 96 100
 61 150.5 120.2 180.2
 98 62.4 52.2 78.4





#13

Acrolein

Concen: 425.363 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

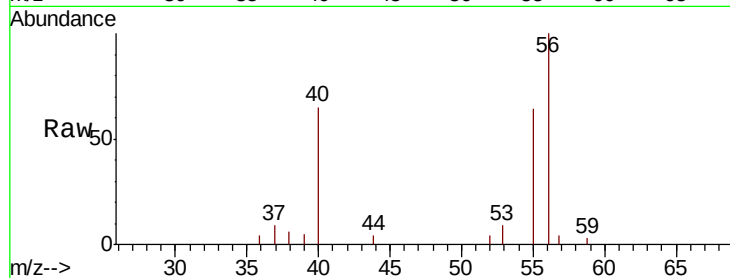
WP022SB439-190318-(13-14)MS

Tot Ion: 56 Resp: 31314

Ion Ratio Lower Upper

56 100

55 63.8 49.8 74.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.04

15000

10000

5000

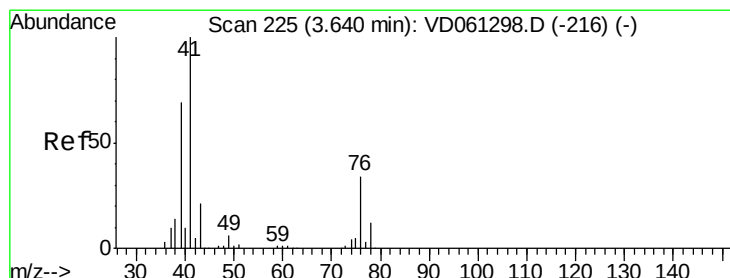
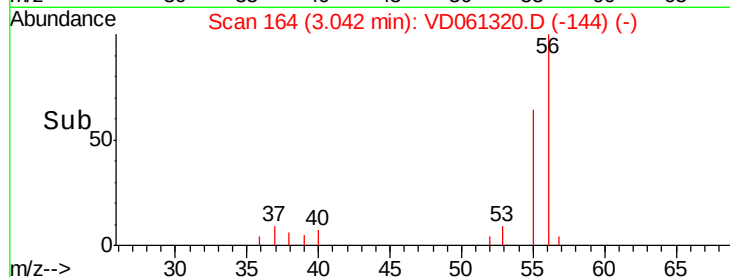
0

Time-->

3.00

3.10

3.20



#14

Allyl chloride

Concen: 66.385 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.02 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

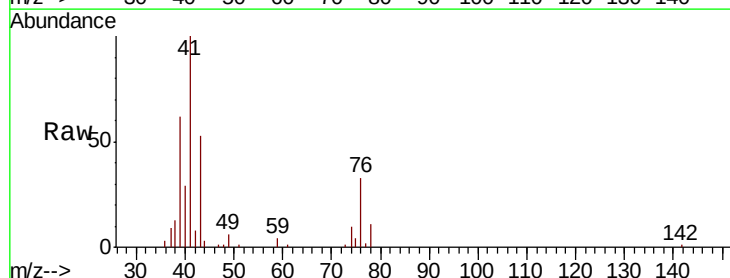
Tgt Ion: 41 Resp: 133136

Ion Ratio Lower Upper

41 100

39 61.9 55.1 82.7

76 32.9 30.2 45.2



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

60000

50000

40000

30000

20000

10000

0

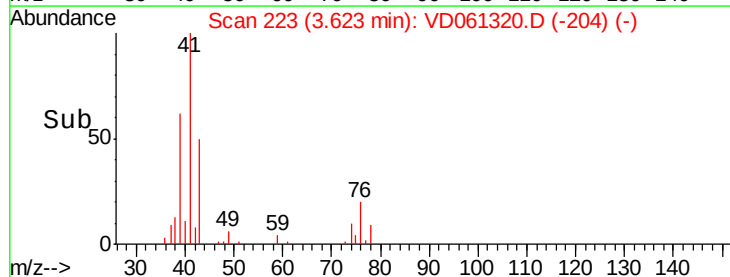
Time-->

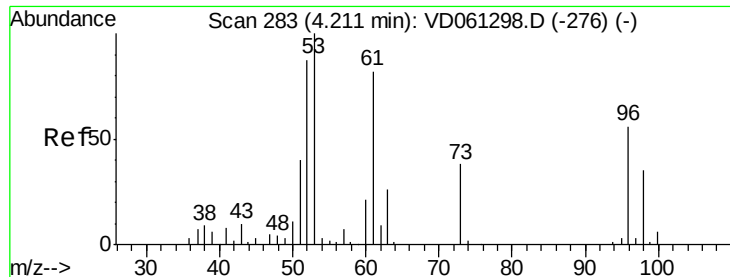
3.50

3.60

3.70

3.80





#15

Acrylonitrile

Concen: 1045.079 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

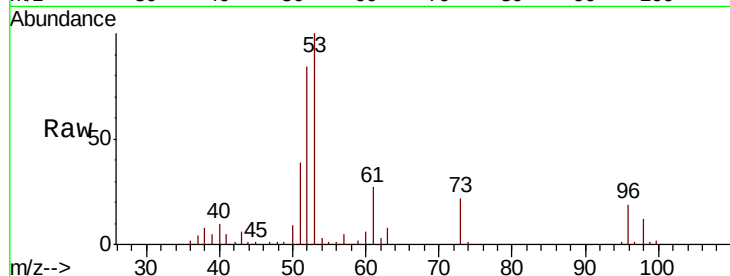
Tot Ion: 53 Resp: 247187

Ion Ratio Lower Upper

53 100

52 83.9 69.4 104.2

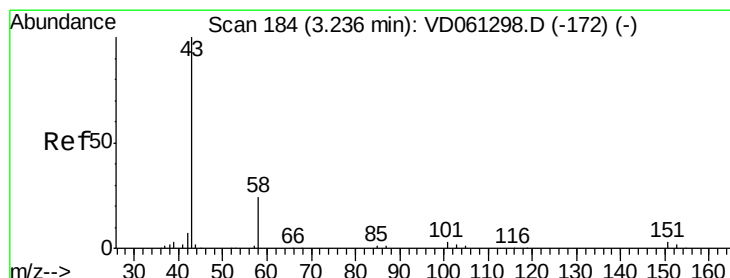
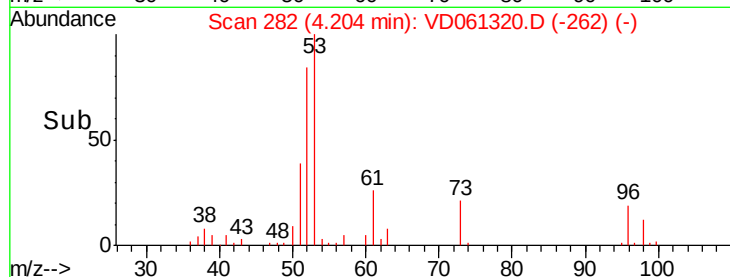
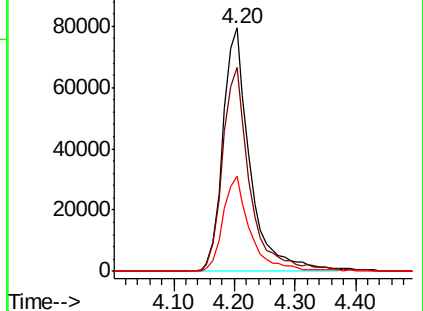
51 38.9 31.7 47.5



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: 1359.668 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD061320.D

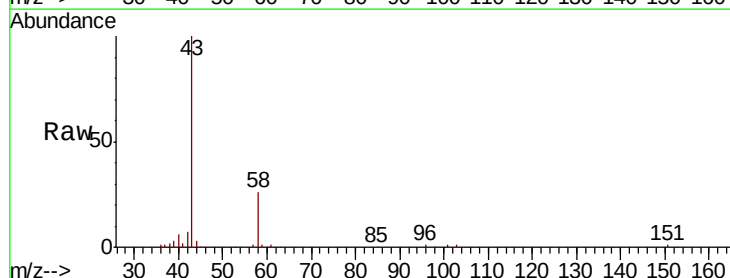
Acq: 26 Mar 2019 1:59

Tgt Ion: 43 Resp: 410894

Ion Ratio Lower Upper

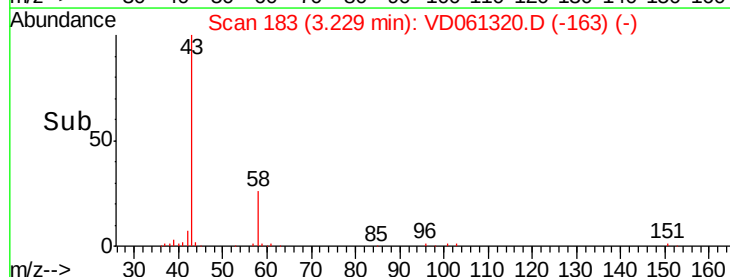
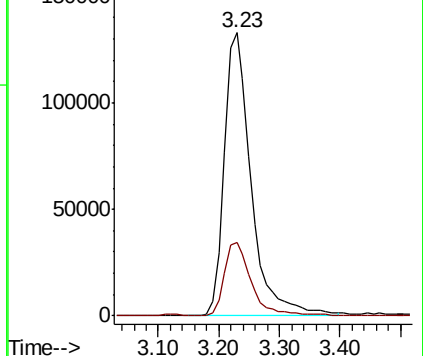
43 100

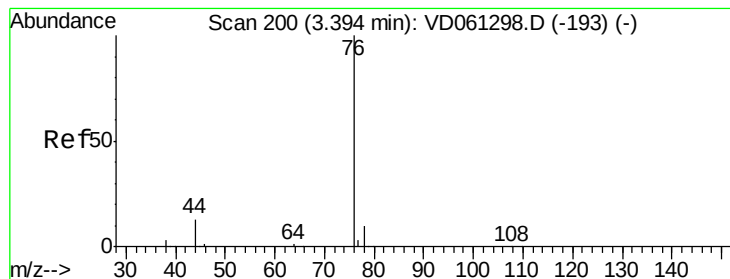
58 25.9 19.4 29.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 41.180 ug/l

RT: 3.39 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

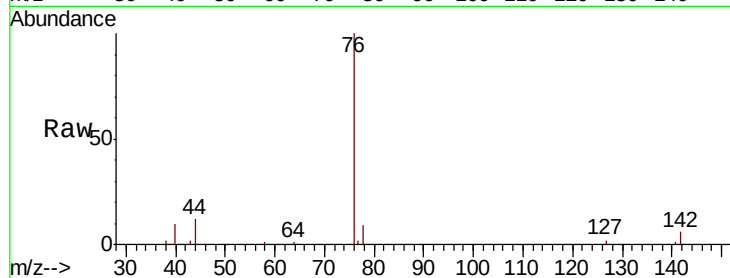
WP022SB439-190318-(13-14)MS

Tot Ion: 76 Resp: 193349

Ion Ratio Lower Upper

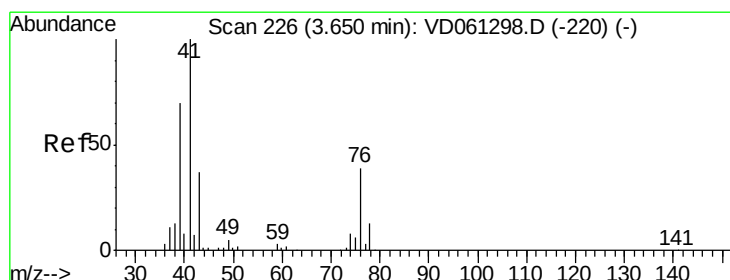
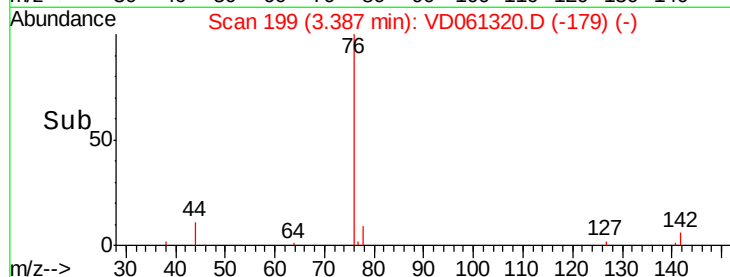
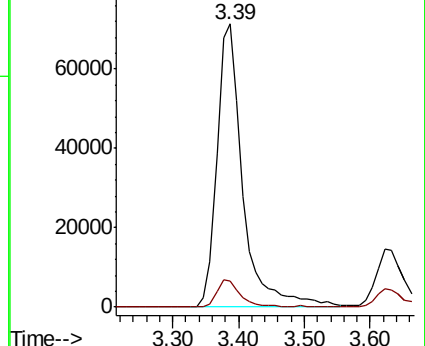
76 100

78 9.2 7.8 11.6



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 282.855 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD061320.D

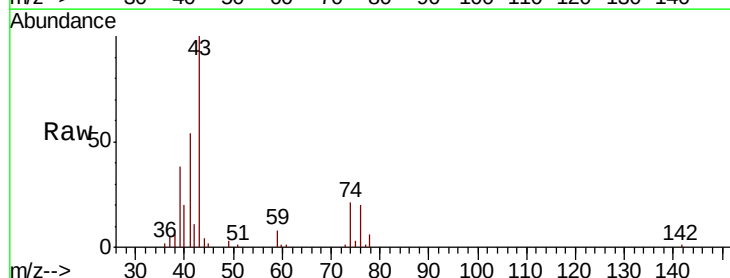
Acq: 26 Mar 2019 1:59

Tgt Ion: 43 Resp: 161572

Ion Ratio Lower Upper

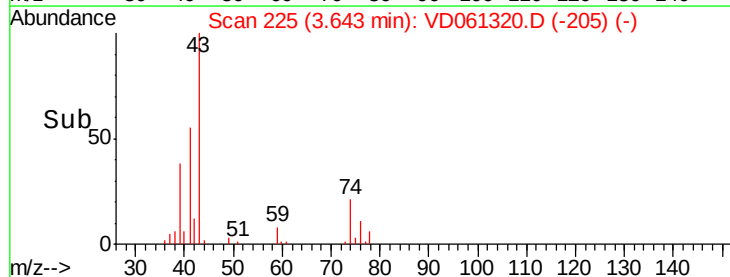
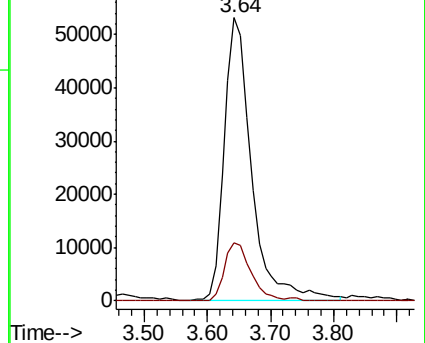
43 100

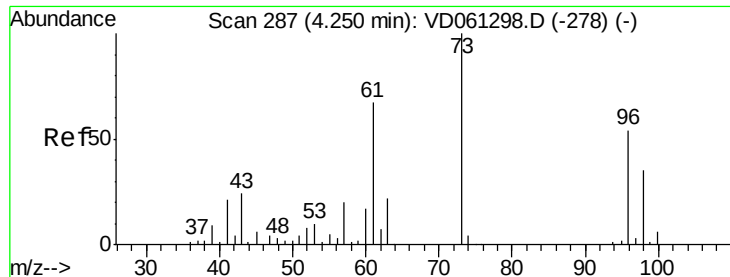
74 20.6 16.6 25.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

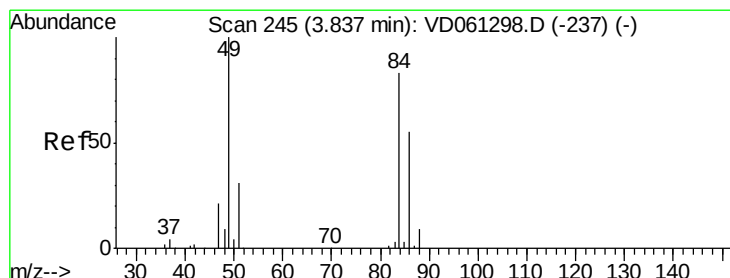
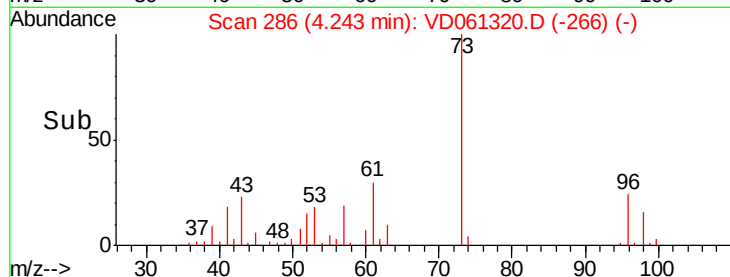
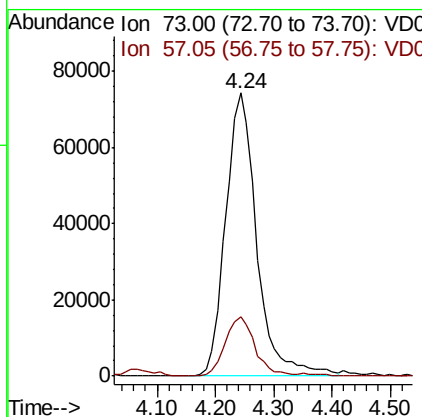
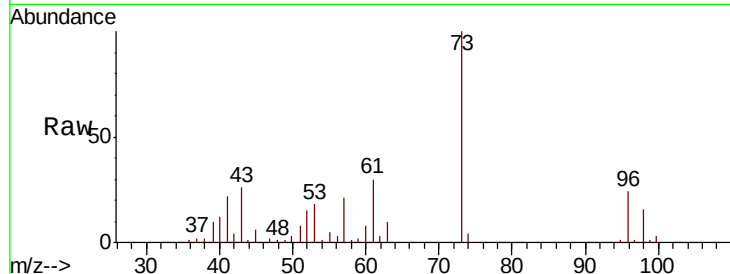




#19
Methyl tert-butyl Ether
Concen: 110.788 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

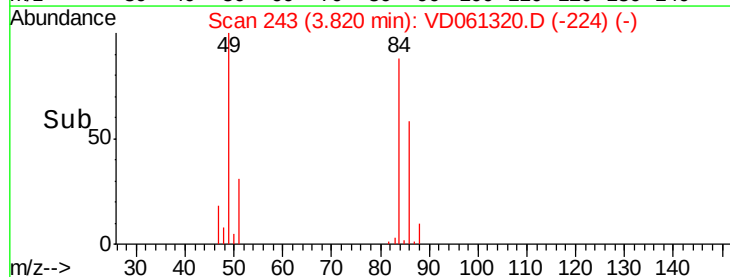
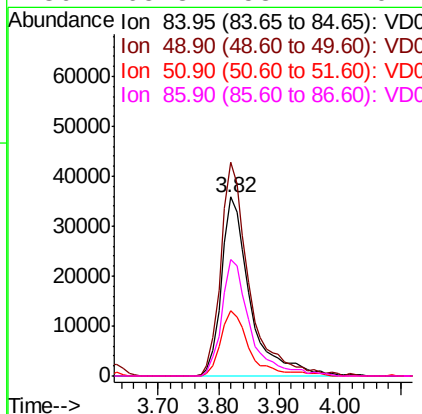
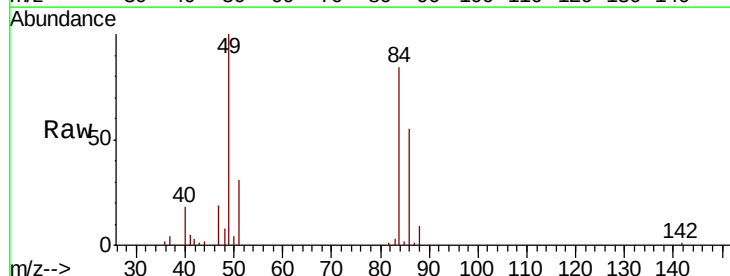
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

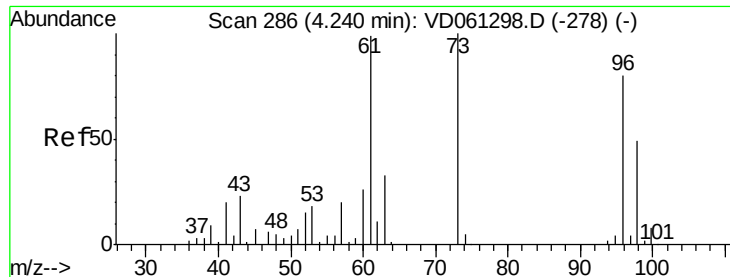
Tot Ion: 73 Resp: 275836
Ion Ratio Lower Upper
73 100
57 20.9 16.3 24.5



#20
Methylene Chloride
Concen: 68.945 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 84 Resp: 118254
Ion Ratio Lower Upper
84 100
49 119.3 96.8 145.2
51 36.7 29.9 44.9
86 65.3 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 56.720 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.02 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

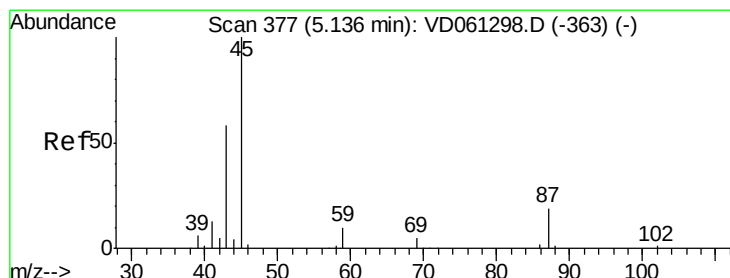
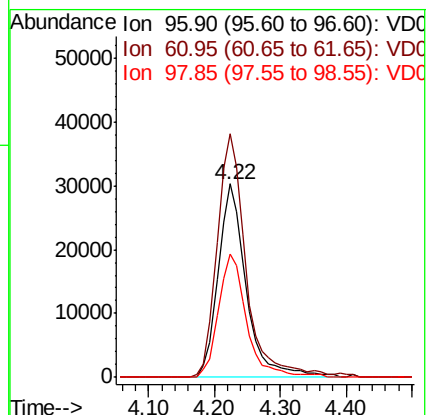
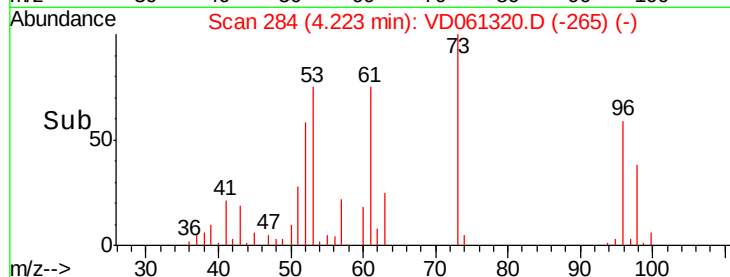
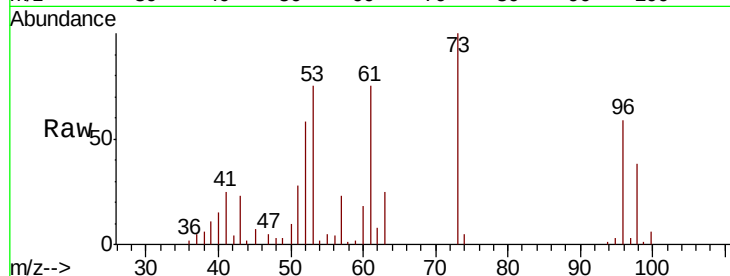
Tot Ion: 96 Resp: 89707

Ion Ratio Lower Upper

96 100

61 125.9 99.2 148.8

98 64.1 49.2 73.8



#22

Diisopropyl ether

Concen: 77.523 ug/l

RT: 5.12 min Scan# 375

Delta R.T. -0.02 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Tgt Ion: 45 Resp: 327518

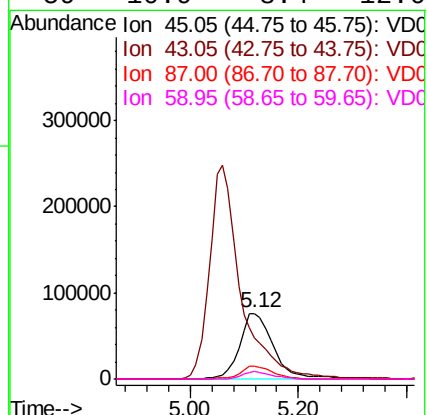
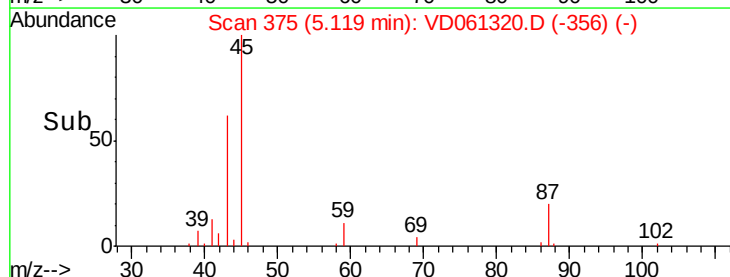
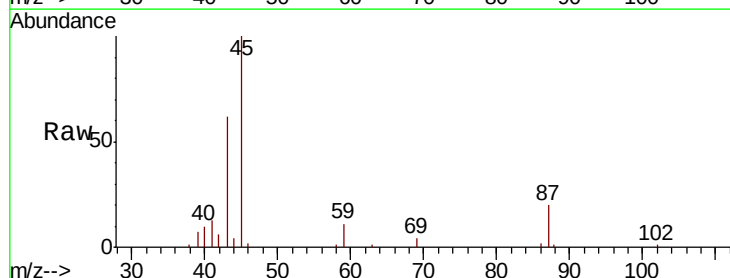
Ion Ratio Lower Upper

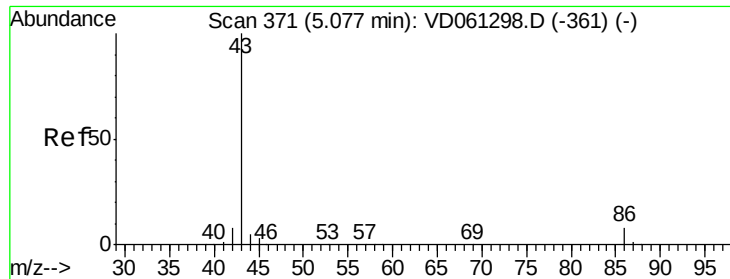
45 100

43 61.8 46.7 70.1

87 19.6 15.5 23.3

59 10.9 8.4 12.6

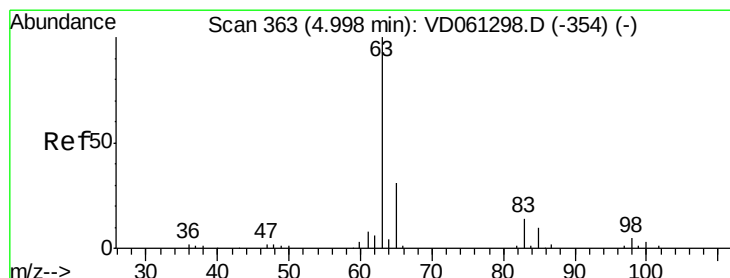
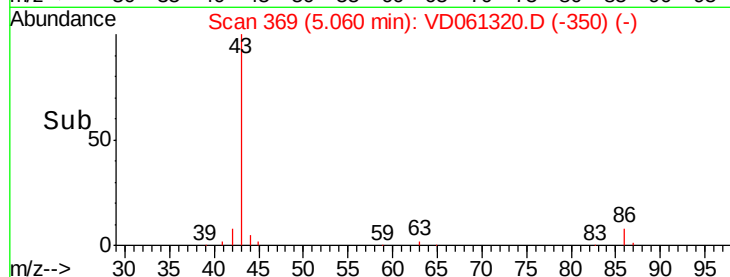
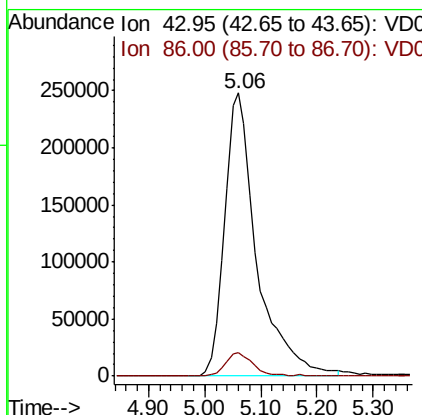
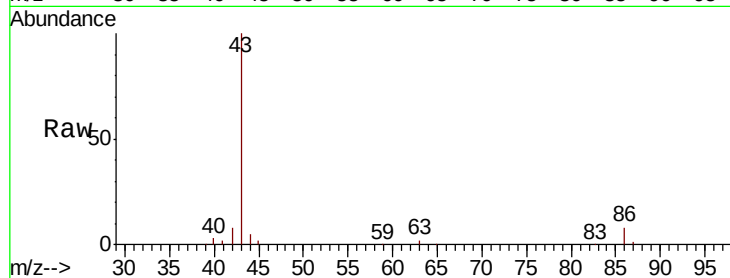




#23
 Vinyl Acetate
 Concen: 438.620 ug/l
 RT: 5.06 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

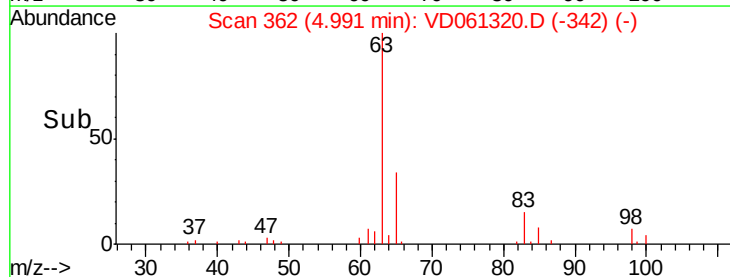
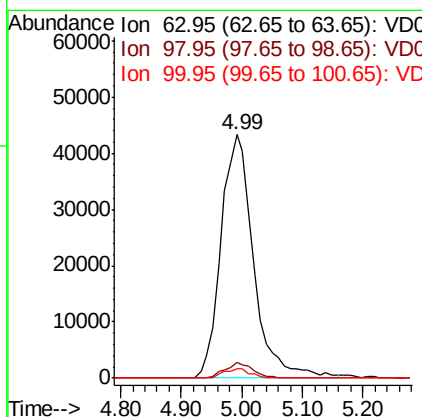
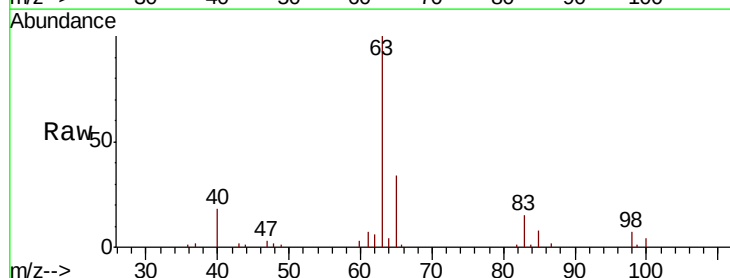
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

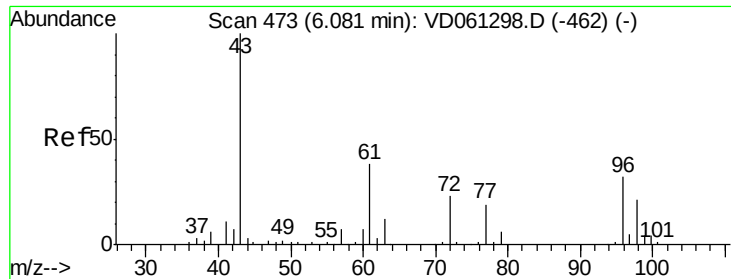
Tot Ion: 43 Resp: 989712
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.3 9.5



#24
 1,1-Dichloroethane
 Concen: 65.709 ug/l
 RT: 4.99 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 63 Resp: 161772
 Ion Ratio Lower Upper
 63 100
 98 6.7 2.8 8.3
 100 3.9 1.6 4.8

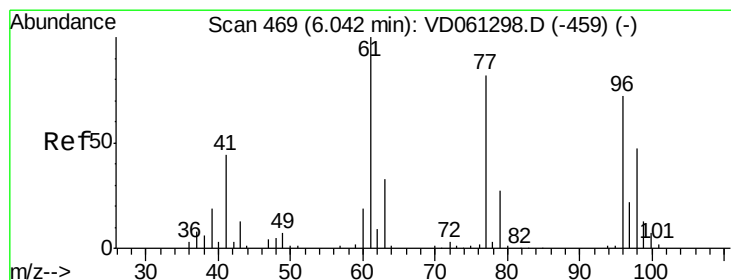
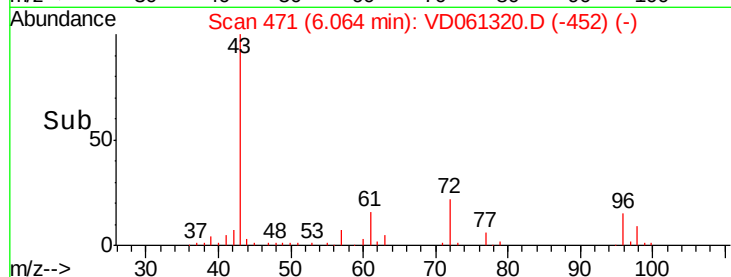
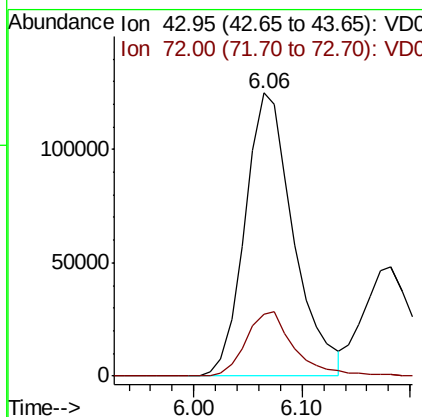
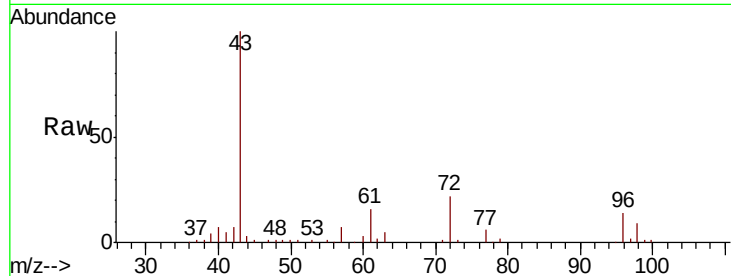




#25
2-Butanone
Concen: 1119.149 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

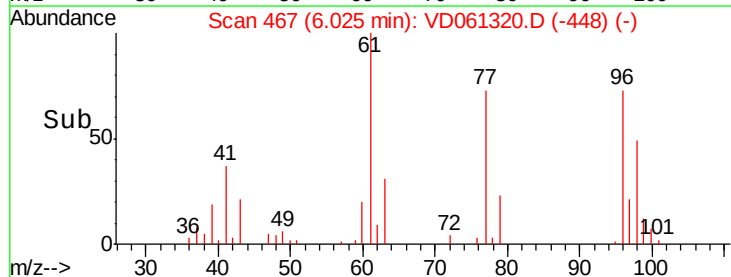
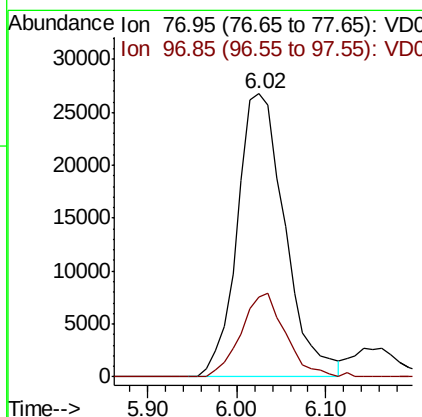
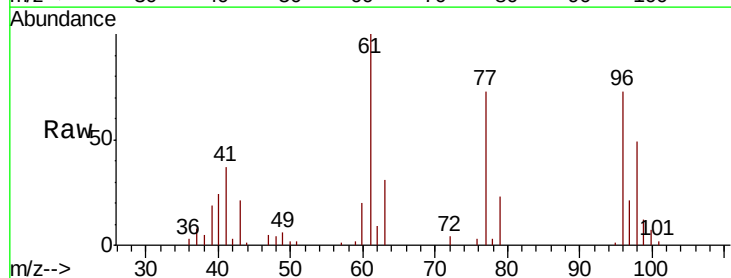
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

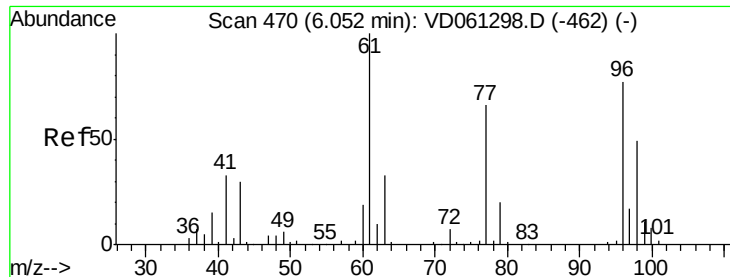
Tot Ion: 43 Resp: 391186
Ion Ratio Lower Upper
43 100
72 22.1 18.5 27.7



#26
2,2-Dichloropropane
Concen: 47.520 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 77 Resp: 99341
Ion Ratio Lower Upper
77 100
97 28.3 13.5 40.5



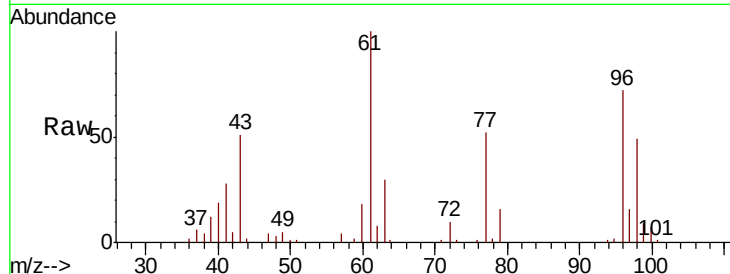


#27

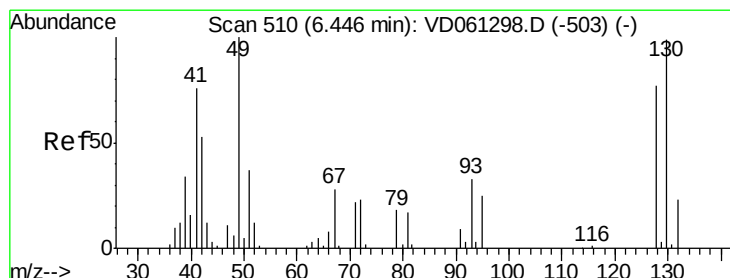
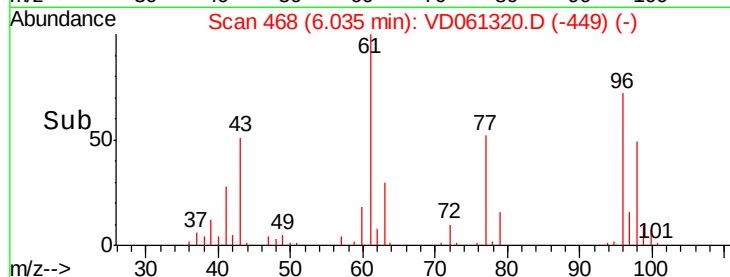
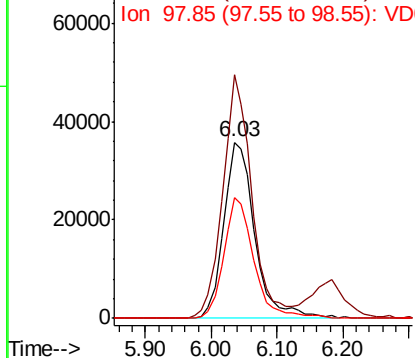
cis-1,2-Dichloroethene
Concen: 69.233 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

Tot Ion: 96 Resp: 117834
Ion Ratio Lower Upper
96 100
61 138.1 0.0 261.0
98 68.2 0.0 127.6



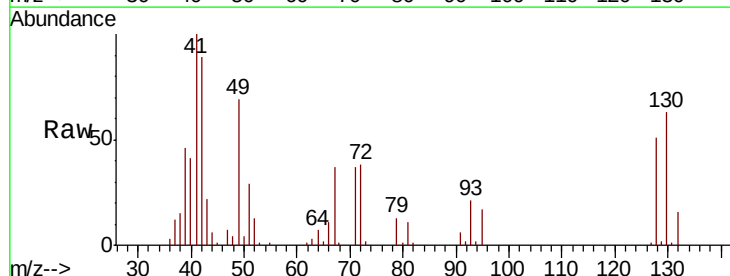
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



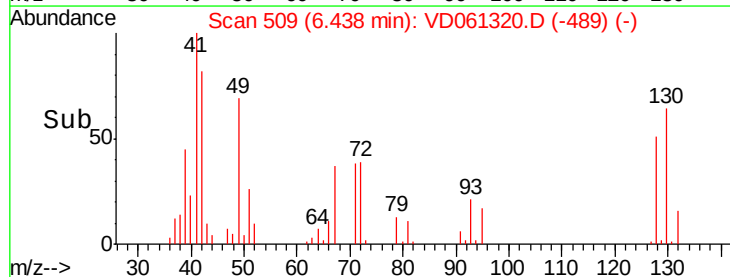
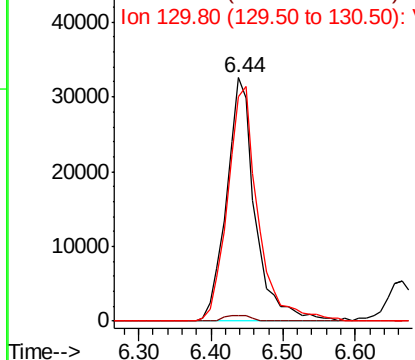
#28

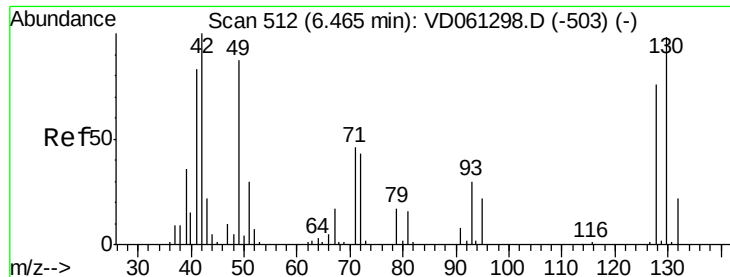
Bromochloromethane
Concen: 86.955 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 49 Resp: 89606
Ion Ratio Lower Upper
49 100
129 2.3 0.0 5.2
130 92.2 79.0 118.6



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





#29

Tetrahydrofuran

Concen: 1097.843 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

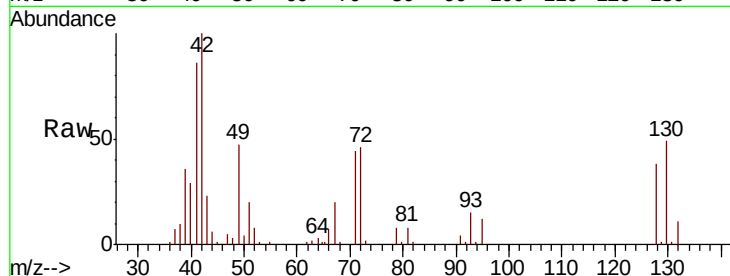
Tot Ion: 42 Resp: 191006

Ion Ratio Lower Upper

42 100

72 45.8 36.6 54.8

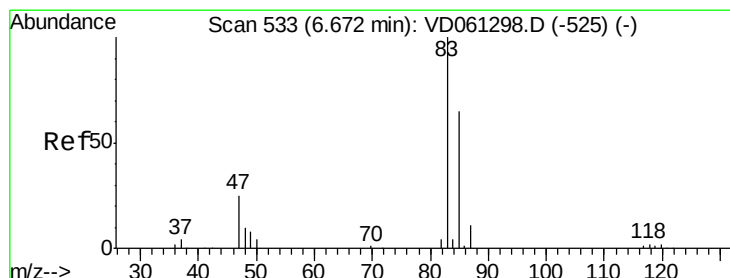
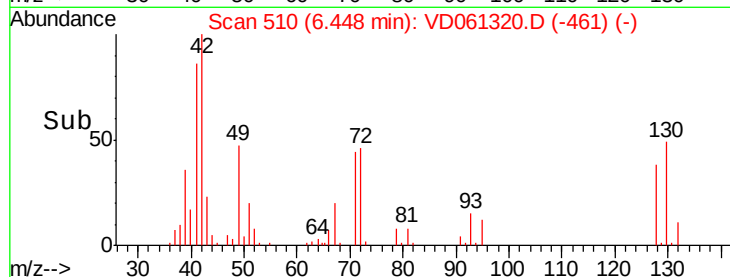
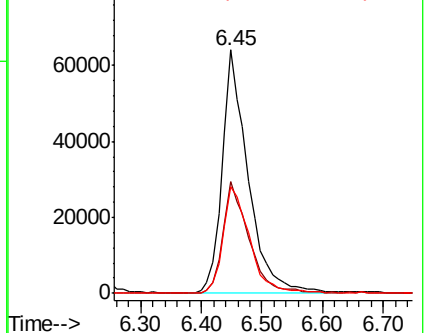
71 44.9 36.3 54.5



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: 67.517 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.01 min

Lab File: VD061320.D

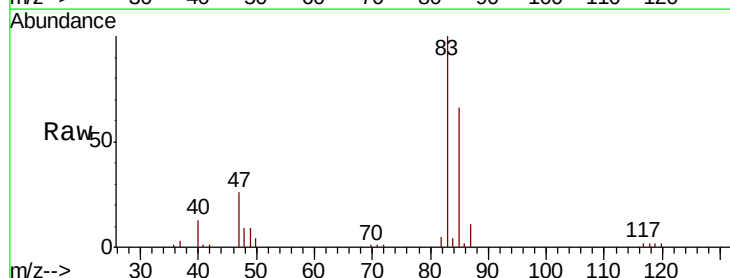
Acq: 26 Mar 2019 1:59

Tgt Ion: 83 Resp: 177132

Ion Ratio Lower Upper

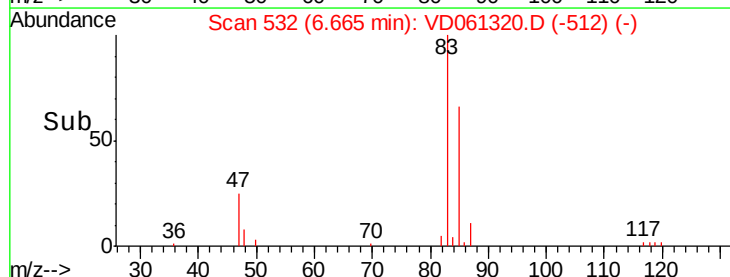
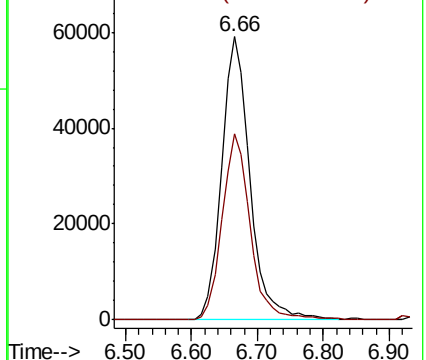
83 100

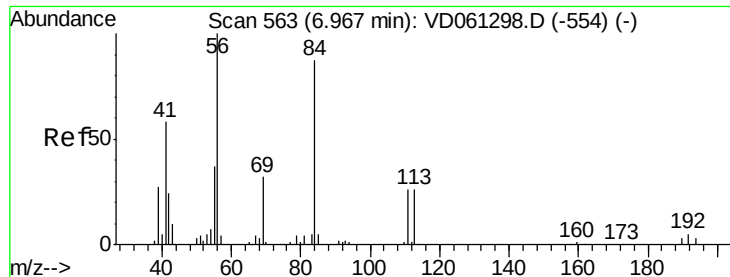
85 65.7 52.2 78.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

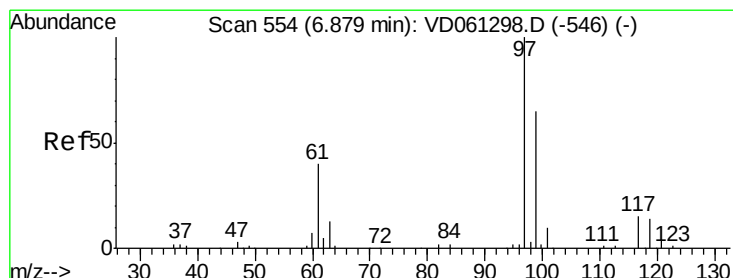
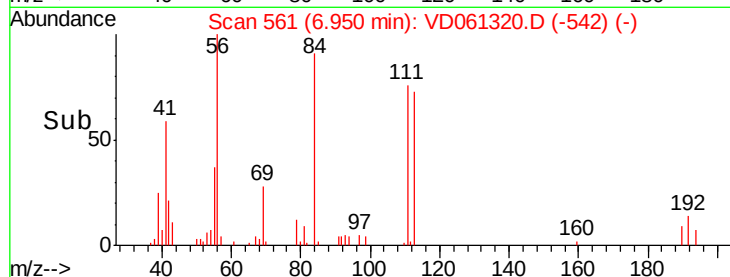
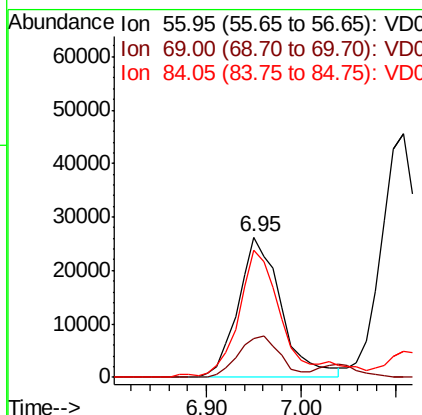
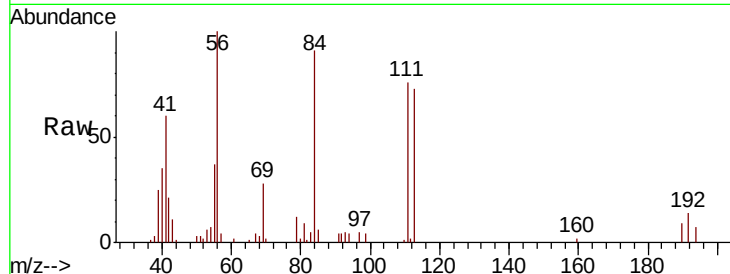




#31
Cyclohexane
Concen: 41.316 ug/l
RT: 6.95 min Scan# 561
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

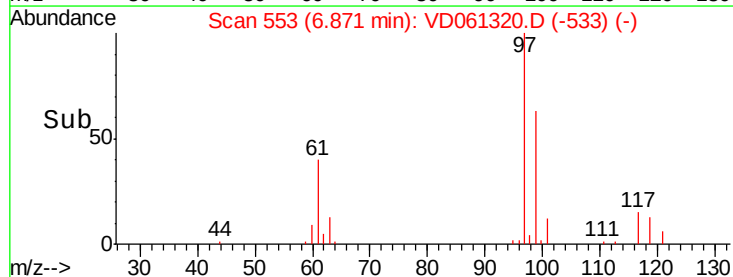
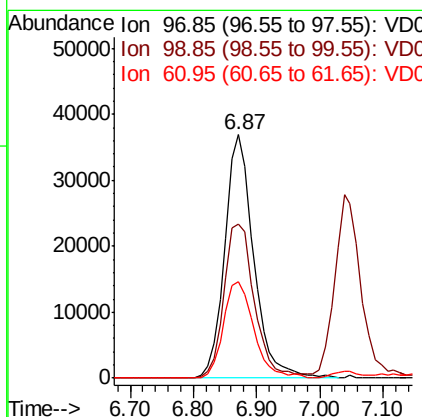
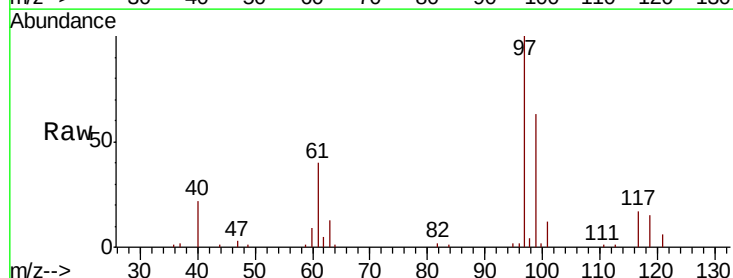
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

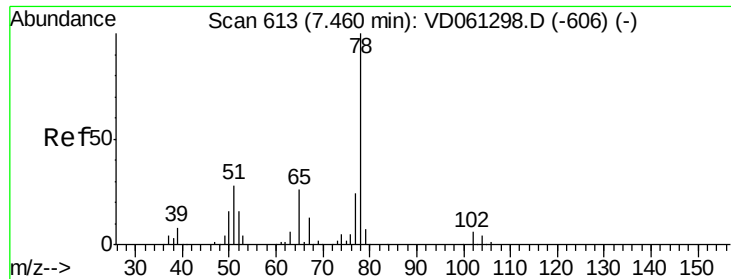
Tot Ion: 56 Resp: 82558
Ion Ratio Lower Upper
56 100
69 27.8 25.5 38.3
84 90.9 71.4 107.2



#32
1,1,1-Trichloroethane
Concen: 50.301 ug/l
RT: 6.87 min Scan# 553
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 97 Resp: 116876
Ion Ratio Lower Upper
97 100
99 63.0 51.8 77.6
61 39.8 31.9 47.9

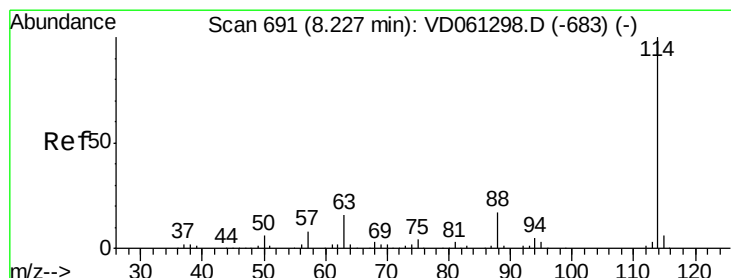
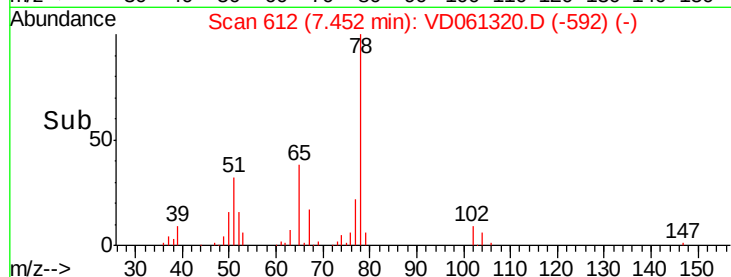
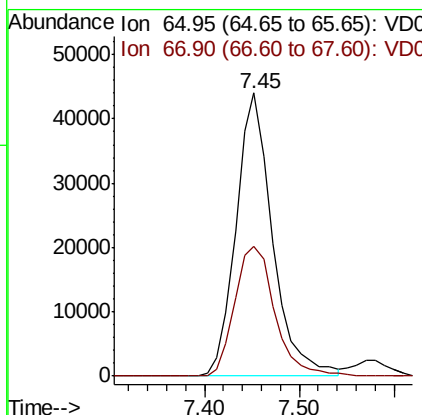
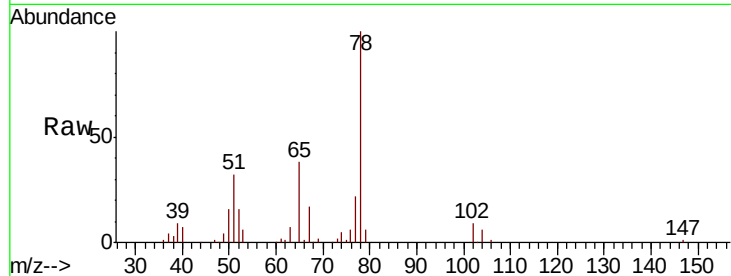




#33
 1,2-Dichloroethane-d4
 Concen: 50.301 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

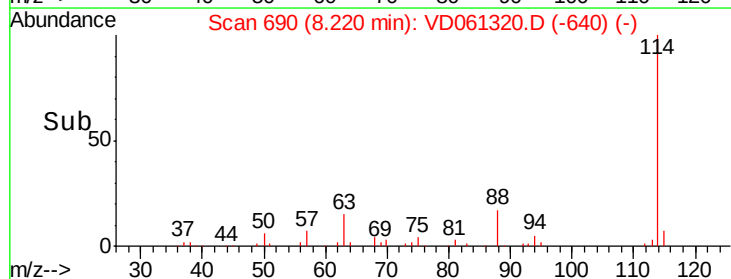
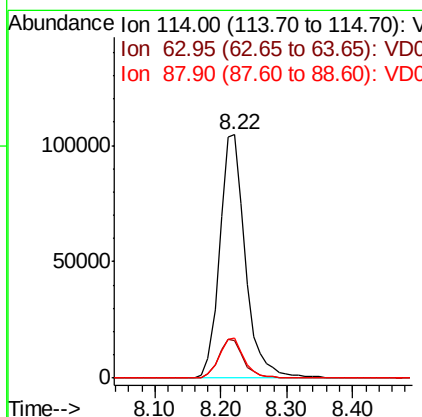
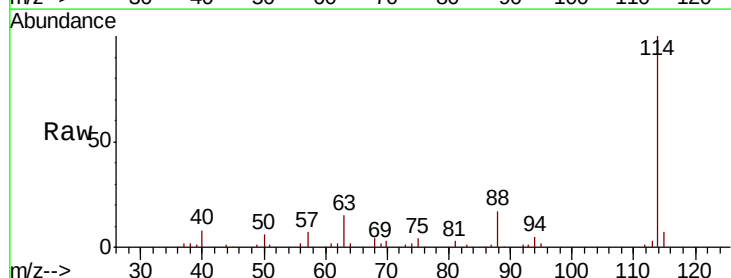
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

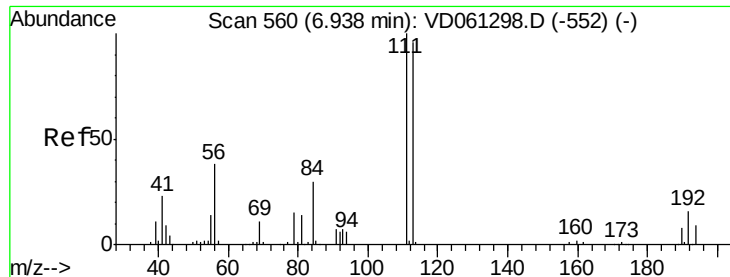
Tot Ion: 65 Resp: 117488
 Ion Ratio Lower Upper
 65 100
 67 45.6 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 114 Resp: 283155
 Ion Ratio Lower Upper
 114 100
 63 15.2 0.0 31.4
 88 16.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

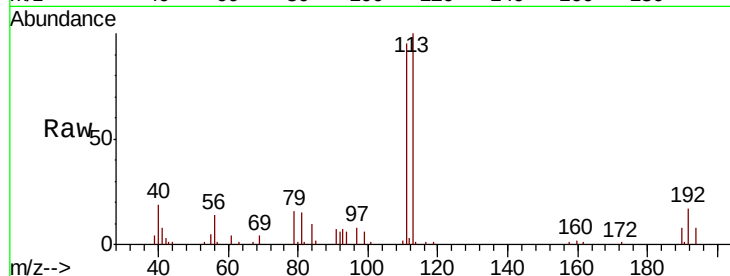
Tot Ion:113 Resp: 137607

Ion Ratio Lower Upper

113 100

111 95.4 83.7 125.5

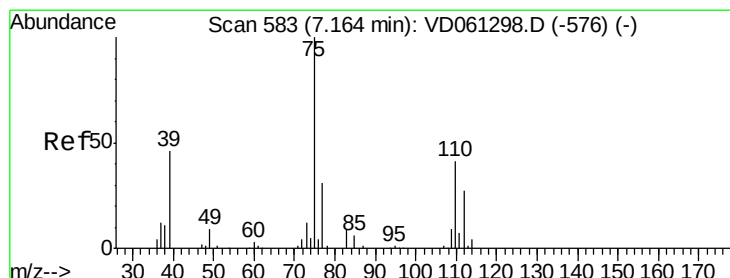
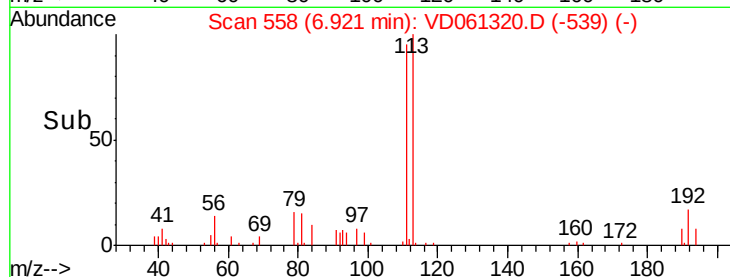
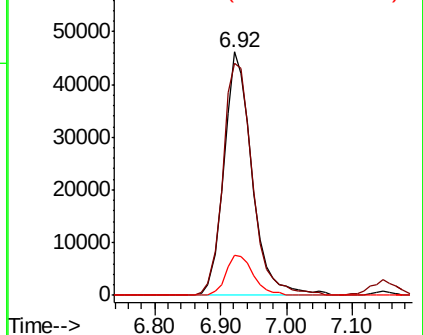
192 16.5 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 42.794 ug/l

RT: 7.15 min Scan# 581

Delta R.T. -0.02 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

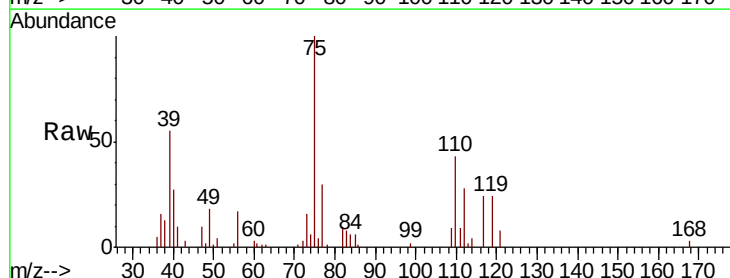
Tgt Ion: 75 Resp: 99140

Ion Ratio Lower Upper

75 100

110 43.0 20.1 60.2

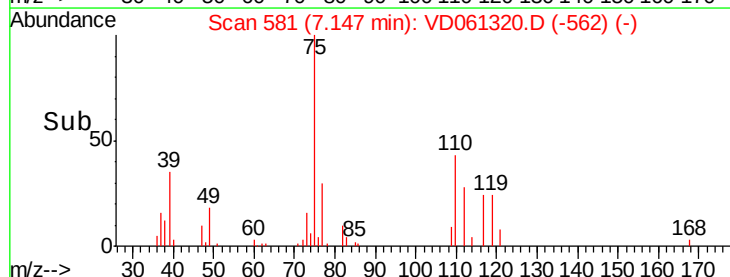
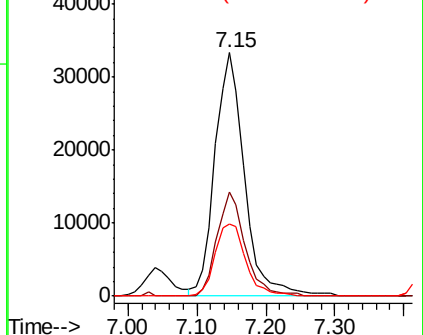
77 29.6 24.3 36.5

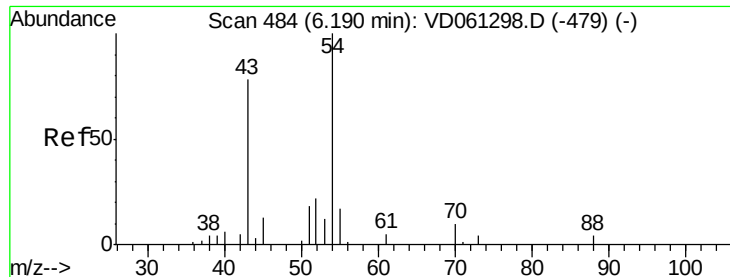


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

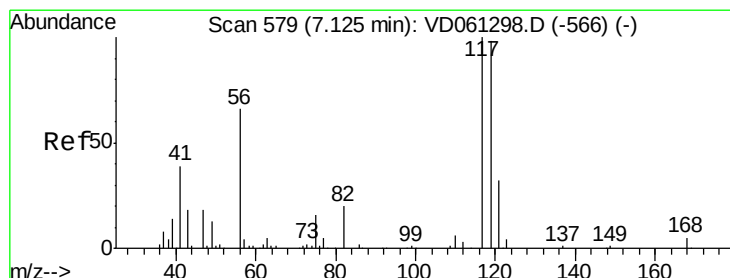
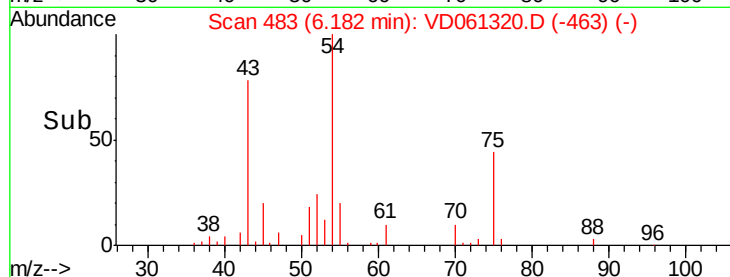
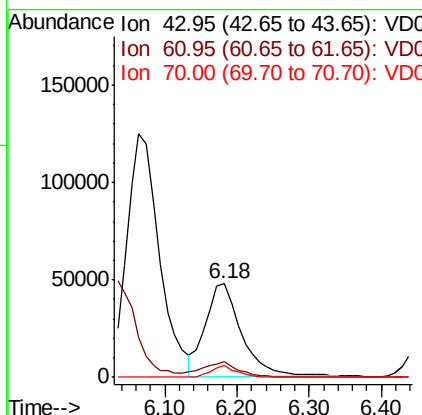
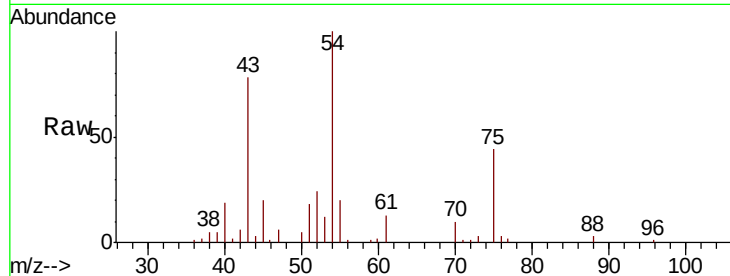




#37
Ethyl Acetate
Concen: 170.219 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

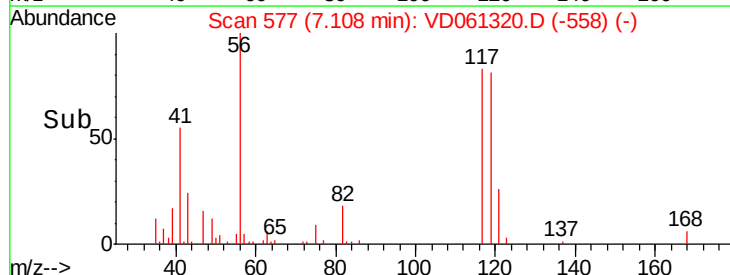
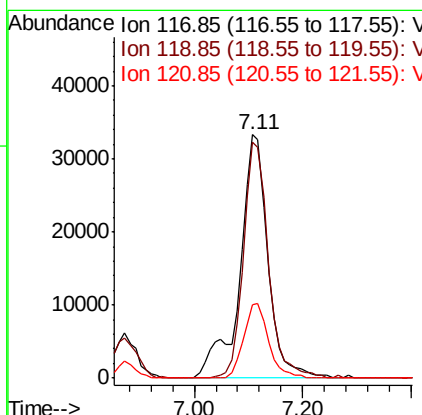
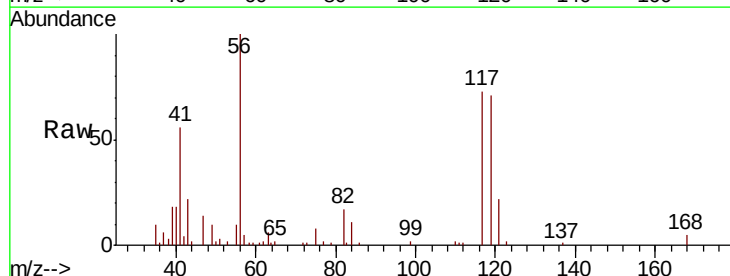
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

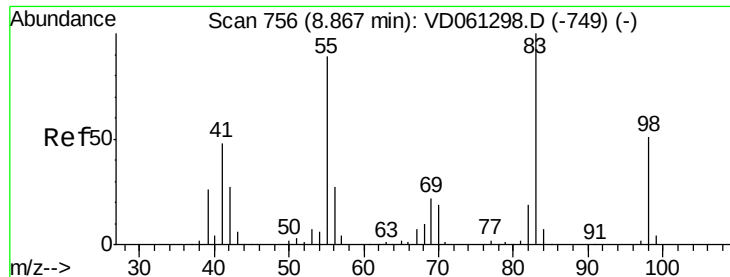
Tot Ion: 43 Resp: 164709
Ion Ratio Lower Upper
43 100
61 16.4 12.6 19.0
70 12.4 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 45.734 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 117 Resp: 121094
Ion Ratio Lower Upper
117 100
119 96.8 78.4 117.6
121 30.2 25.1 37.7

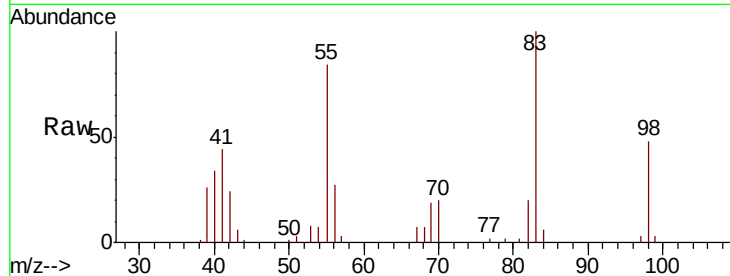




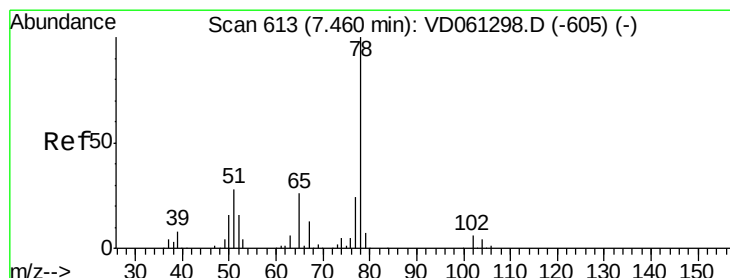
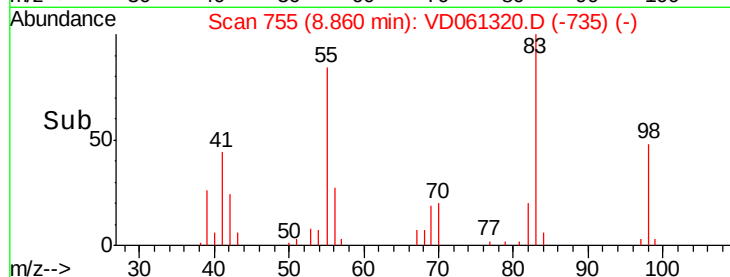
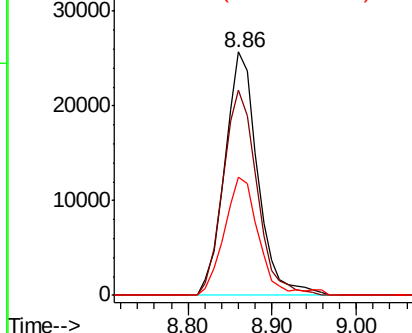
#39
Methylvlcyclohexane
Concen: 29.105 ug/l
RT: 8.86 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

Tot Ion: 83 Resp: 69832
Ion Ratio Lower Upper
83 100
55 84.0 71.3 106.9
98 48.3 40.4 60.6

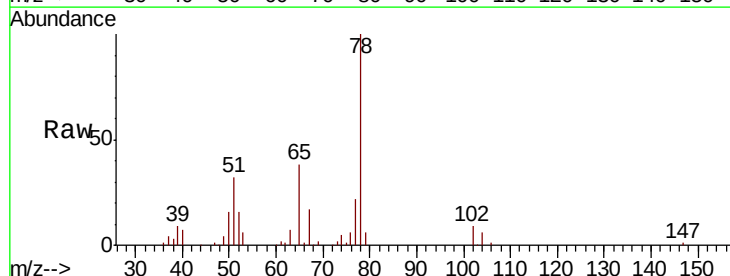


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

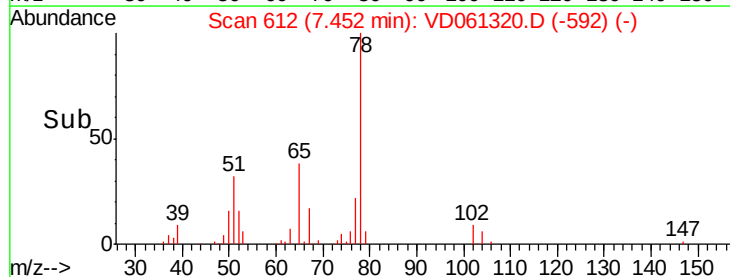
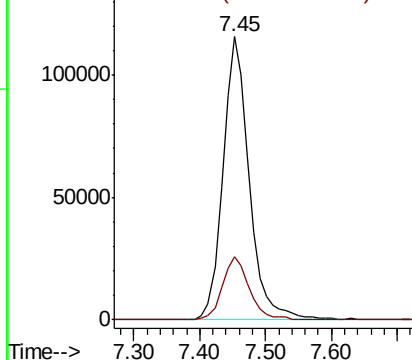


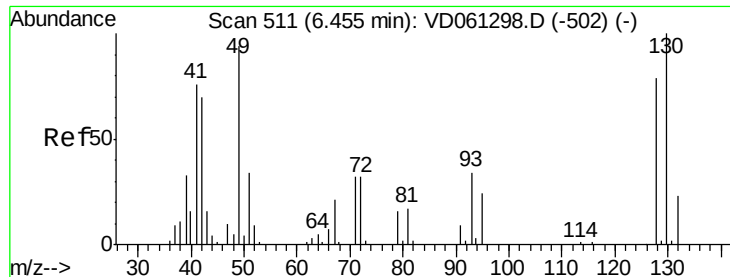
#40
Benzene
Concen: 55.869 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 78 Resp: 321444
Ion Ratio Lower Upper
78 100
77 22.2 18.8 28.2



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

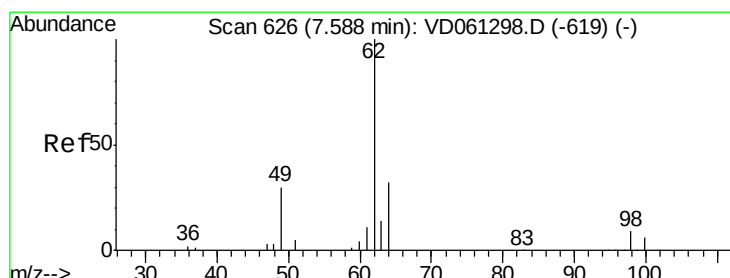
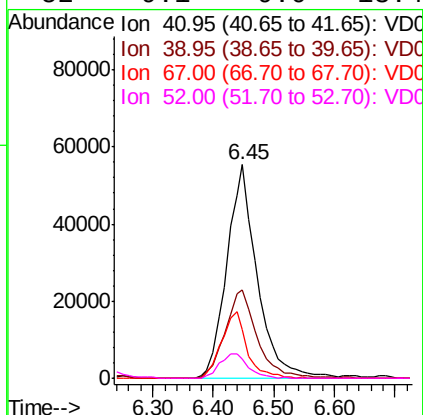
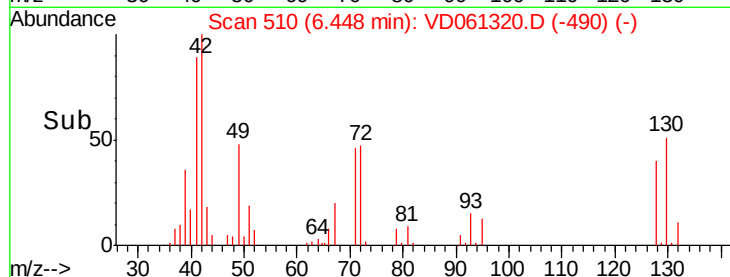
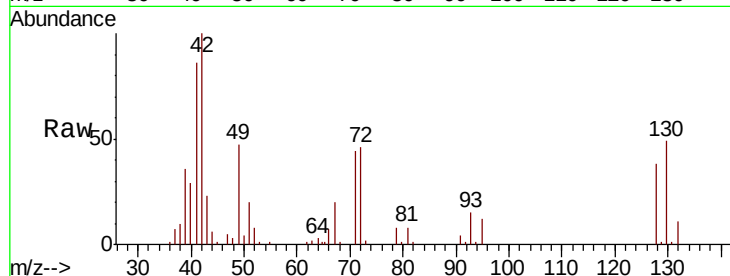




#41
Methacrylonitrile
Concen: 170.928 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

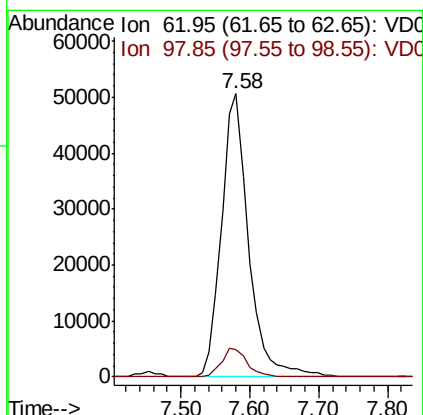
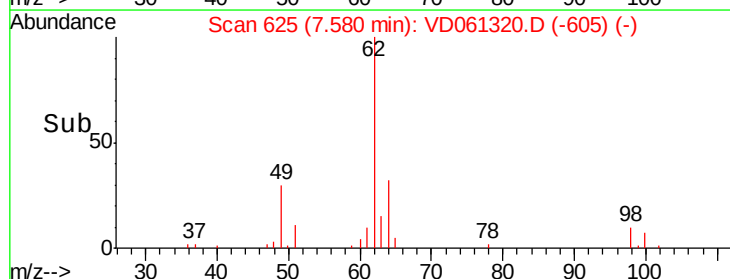
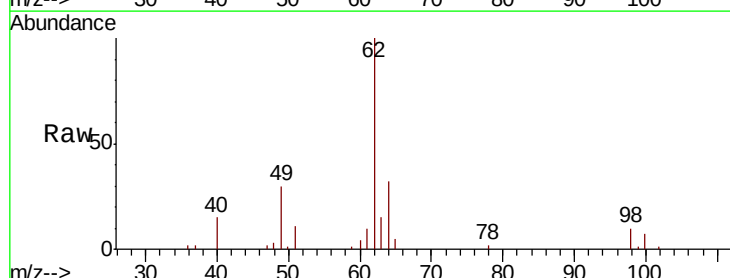
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

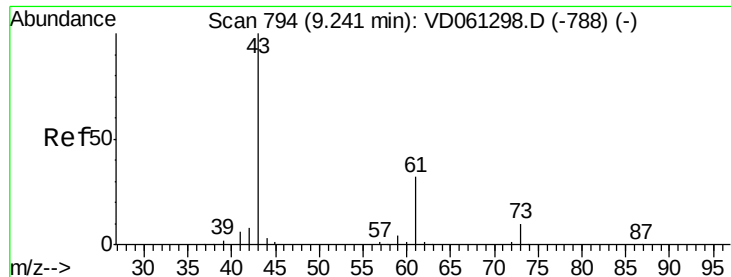
Tot Ion:	41	Resp:	192197
Ion	Ratio	Lower	Upper
41	100		
39	41.4	34.2	51.2
67	22.6	21.8	32.6
52	9.1	9.0	13.4



#42
1,2-Dichloroethane
Concen: 76.946 ug/l
RT: 7.58 min Scan# 625
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion:	62	Resp:	137974
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.6





#43

Isopropyl Acetate

Concen: 137.965 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

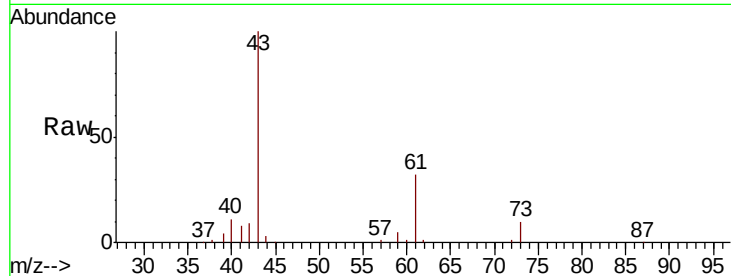
Tot Ion: 43 Resp: 192489

Ion Ratio Lower Upper

43 100

61 32.4 25.8 38.8

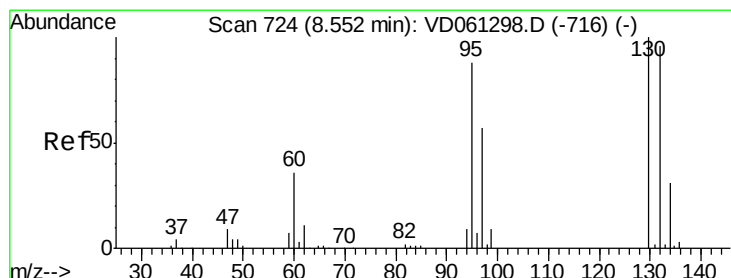
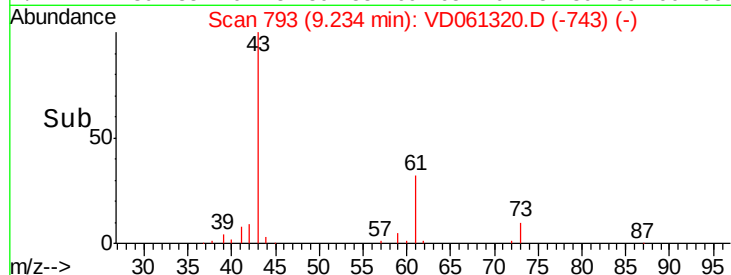
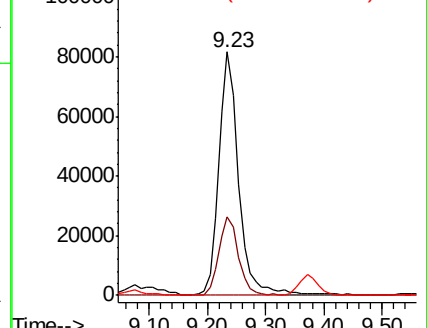
87 0.4 0.3 0.5



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: 48.542 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD061320.D

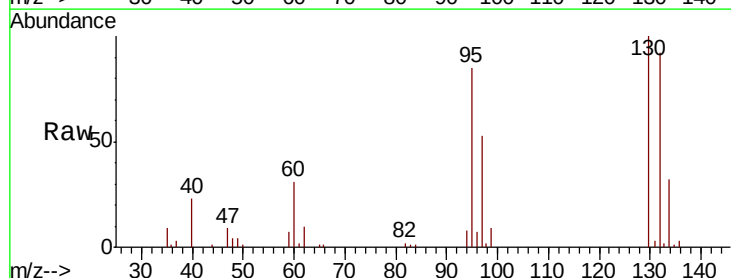
Acq: 26 Mar 2019 1:59

Tgt Ion:130 Resp: 101006

Ion Ratio Lower Upper

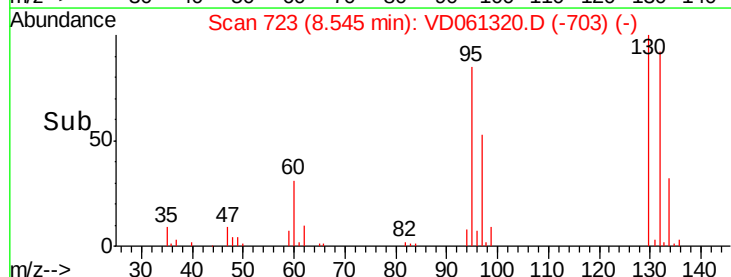
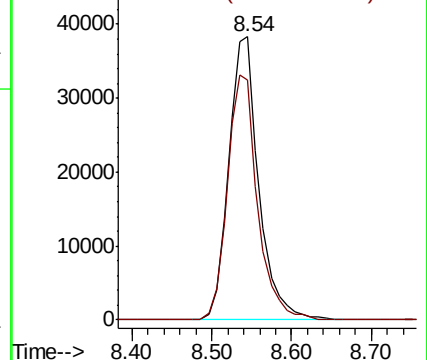
130 100

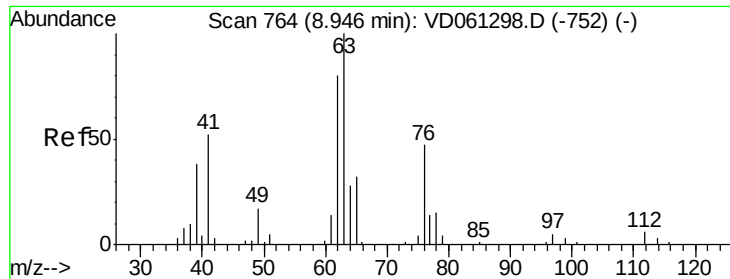
95 84.8 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 66.442 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

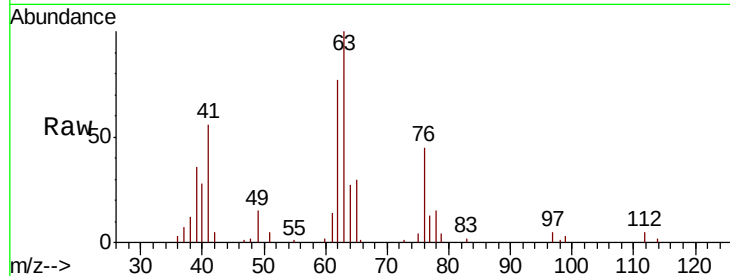
WP022SB439-190318-(13-14)MS

Tot Ion: 63 Resp: 94350

Ion Ratio Lower Upper

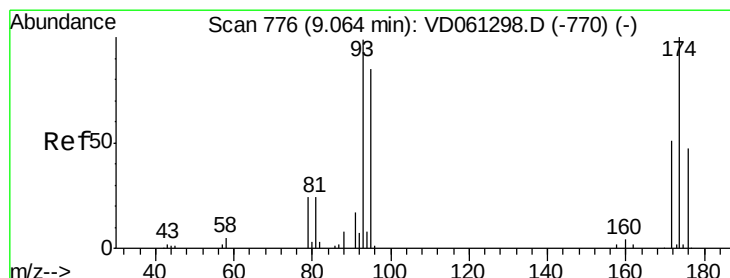
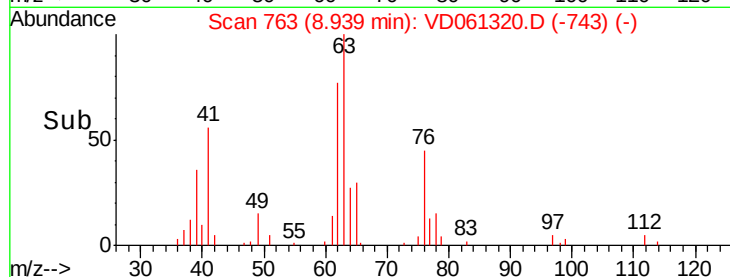
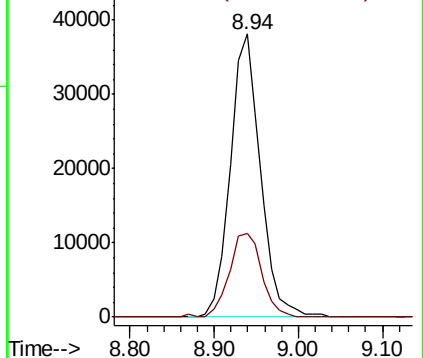
63 100

65 29.8 25.2 37.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 92.685 ug/l

RT: 9.06 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

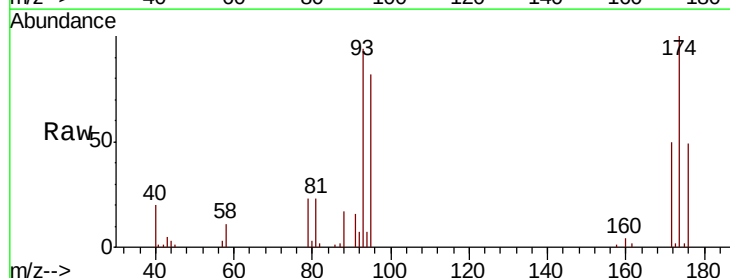
Tgt Ion: 93 Resp: 90217

Ion Ratio Lower Upper

93 100

95 87.3 68.1 102.1

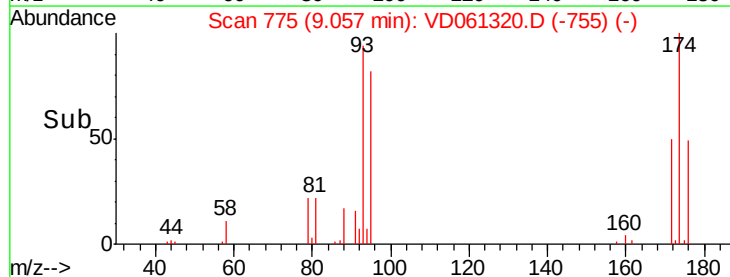
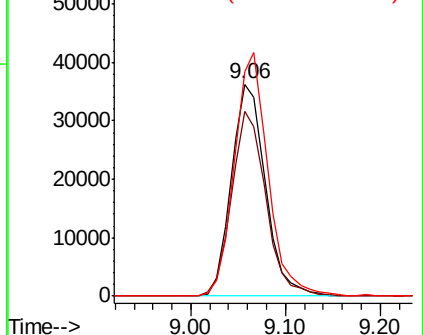
174 105.9 80.4 120.6

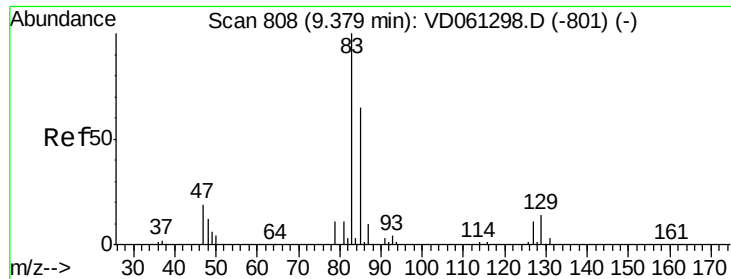


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 66.223 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

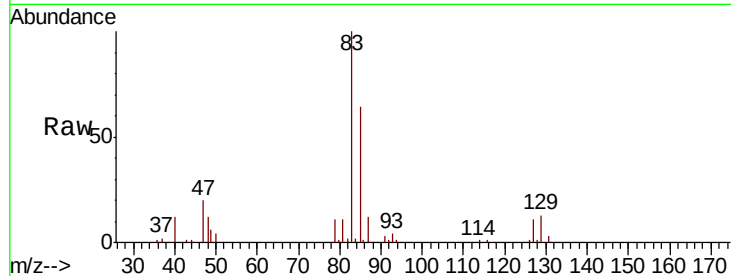
Tot Ion: 83 Resp: 151085

Ion Ratio Lower Upper

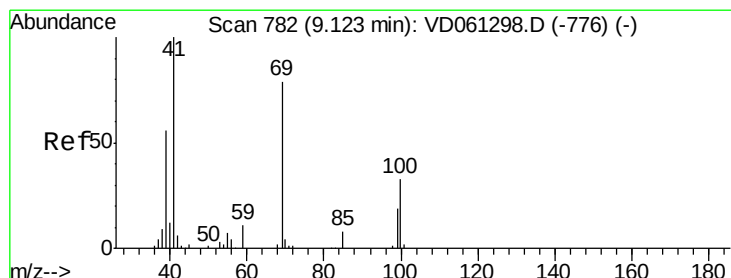
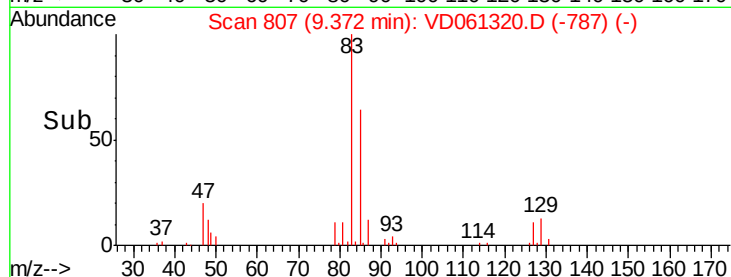
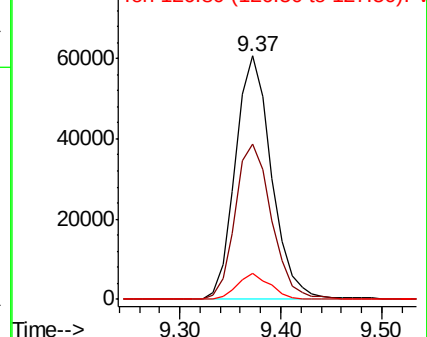
83 100

85 63.6 51.7 77.5

127 10.9 8.8 13.2



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



#48

Methyl methacrylate

Concen: 152.314 ug/l

RT: 9.12 min Scan# 781

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

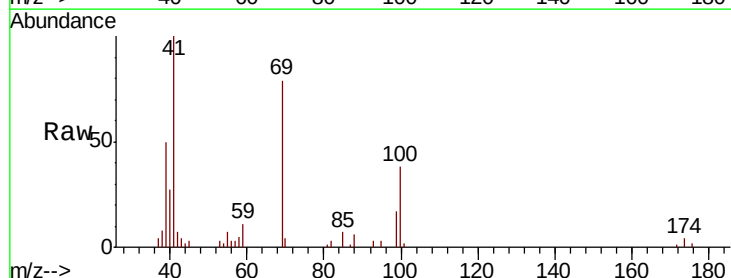
Tgt Ion: 41 Resp: 113424

Ion Ratio Lower Upper

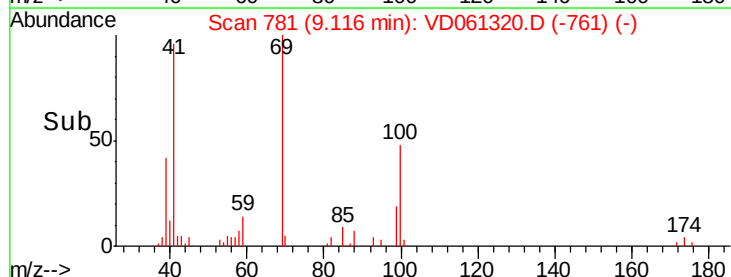
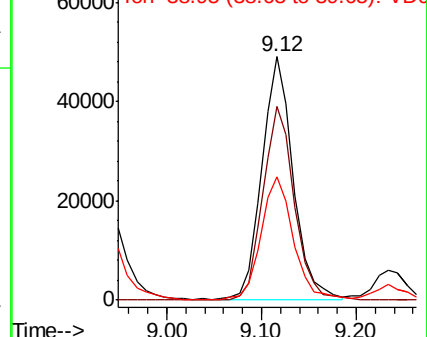
41 100

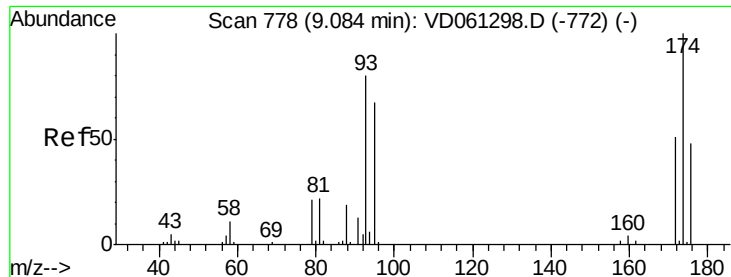
69 79.3 62.4 93.6

39 50.4 44.9 67.3



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

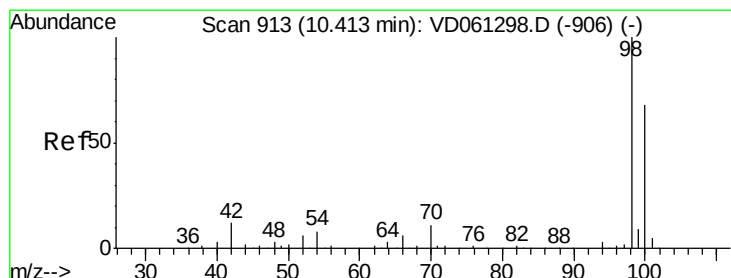
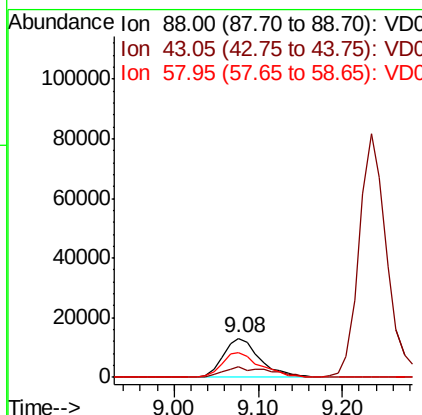
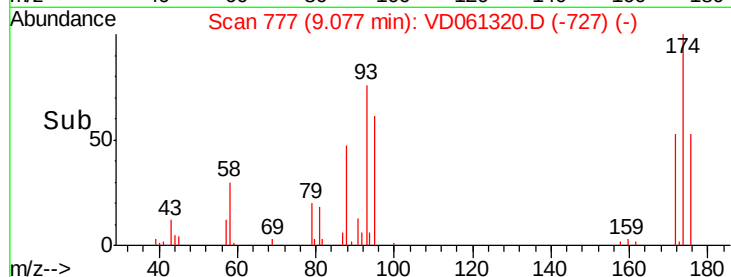
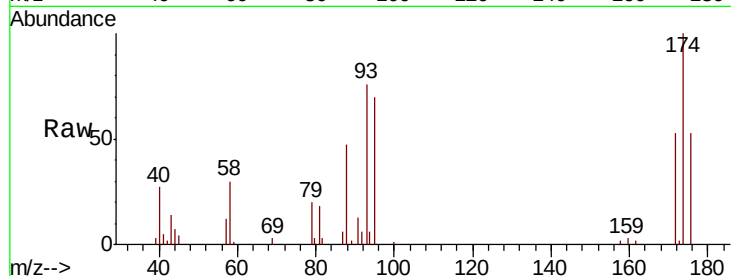




#49
1,4-Dioxane
Concen: 4834.325 ug/l
RT: 9.08 min Scan# 777
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

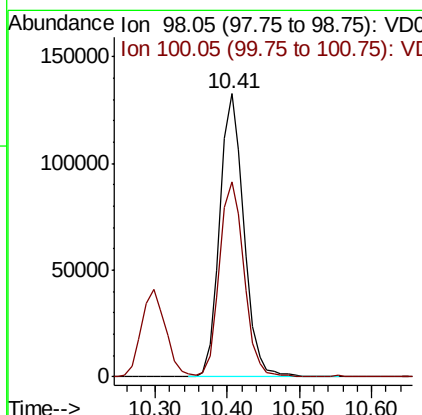
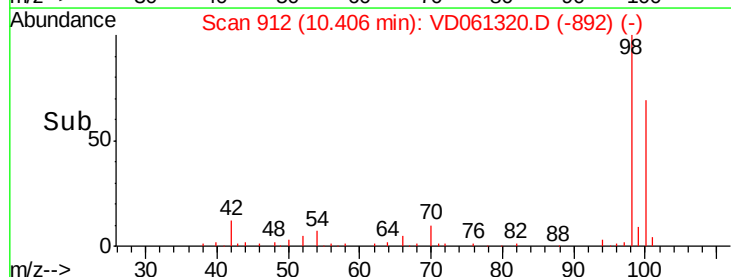
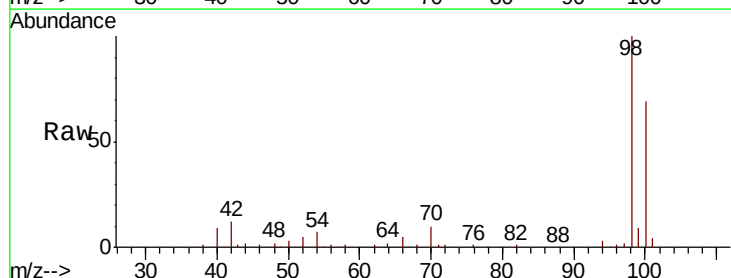
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

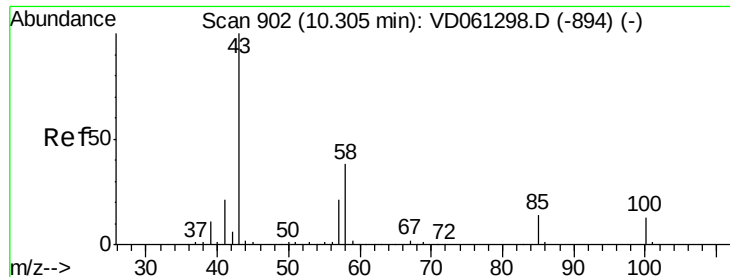
Tot Ion: 88 Resp: 39499
Ion Ratio Lower Upper
88 100
43 29.0 20.7 31.1
58 63.9 44.9 67.3



#50
Toluene-d8
Concen: 4834.325 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 98 Resp: 306966
Ion Ratio Lower Upper
98 100
100 68.7 55.4 83.0





#51

4-Methyl-2-Pentanone

Concen: 869.591 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

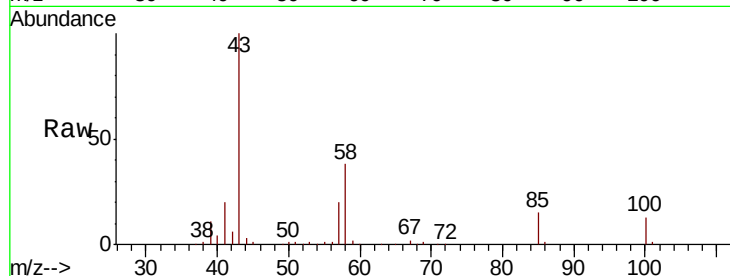
WP022SB439-190318-(13-14)MS

Tot Ion: 43 Resp: 722245

Ion Ratio Lower Upper

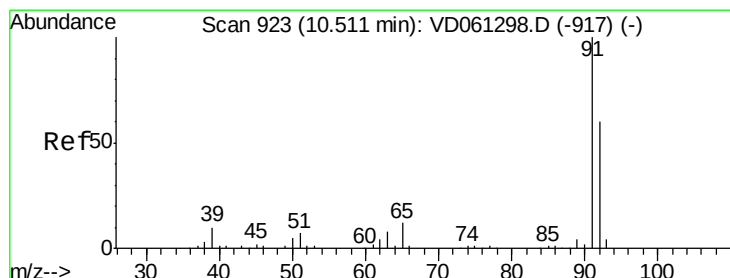
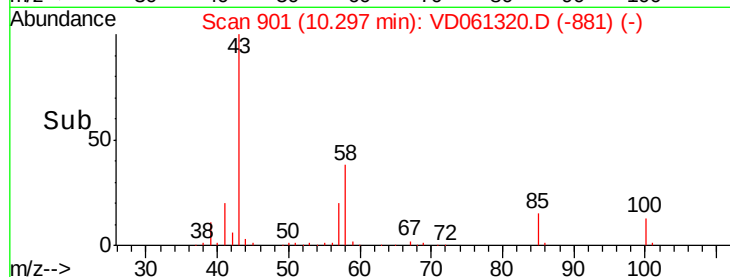
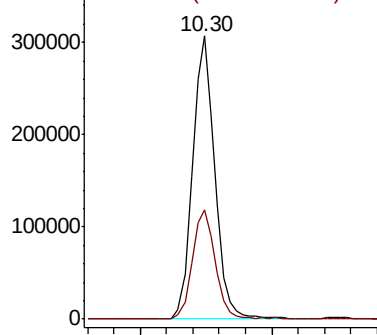
43 100

58 38.4 30.6 45.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 55.998 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD061320.D

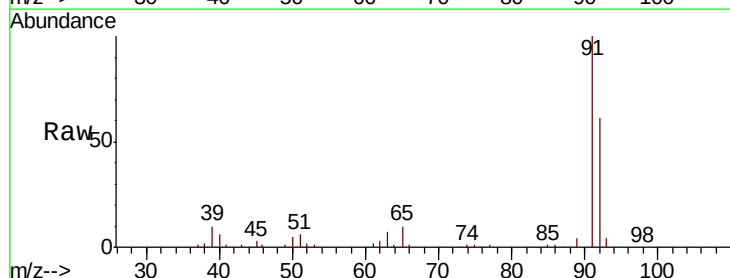
Acq: 26 Mar 2019 1:59

Tgt Ion: 92 Resp: 197139

Ion Ratio Lower Upper

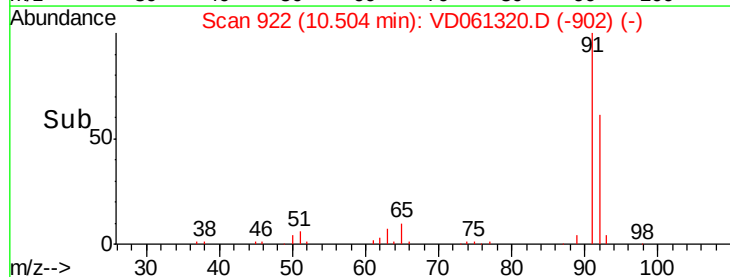
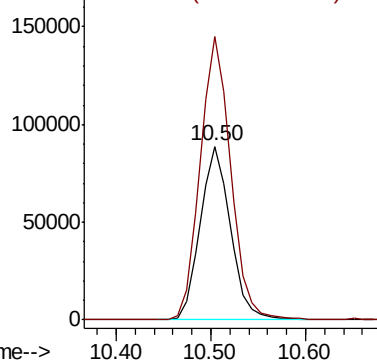
92 100

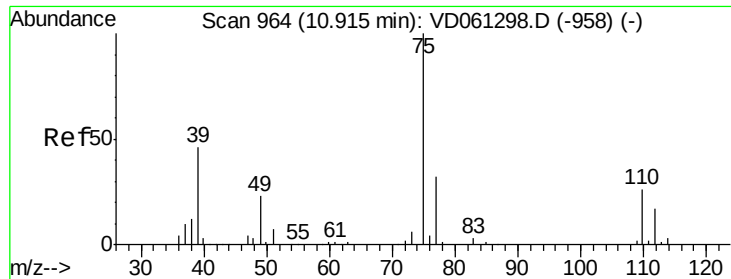
91 163.0 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

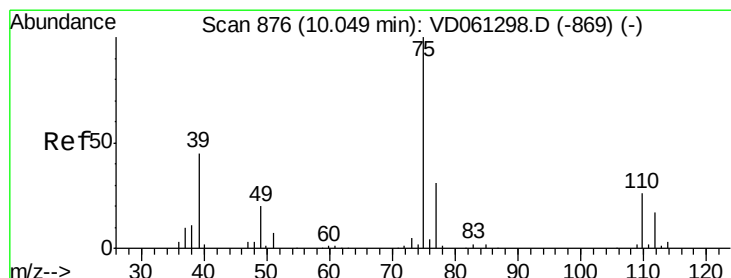
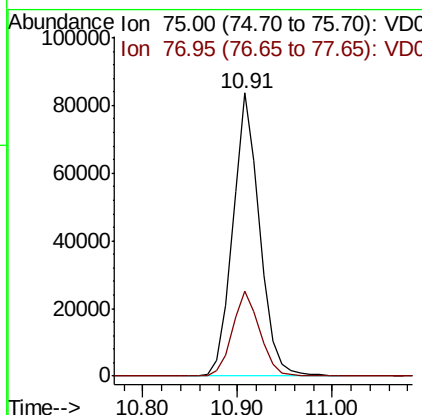
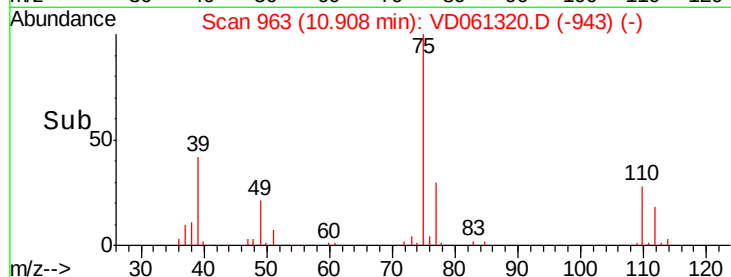
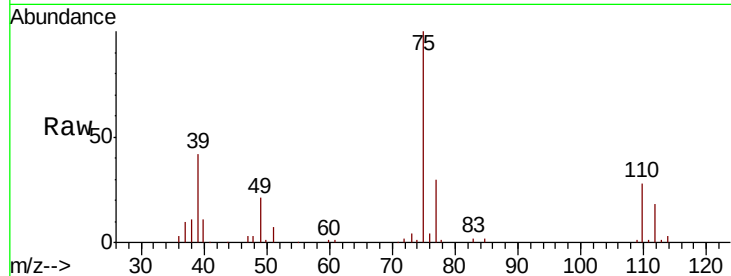




#53
t-1,3-Dichloropropene
Concen: 81.963 ug/l
RT: 10.91 min Scan# 963
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

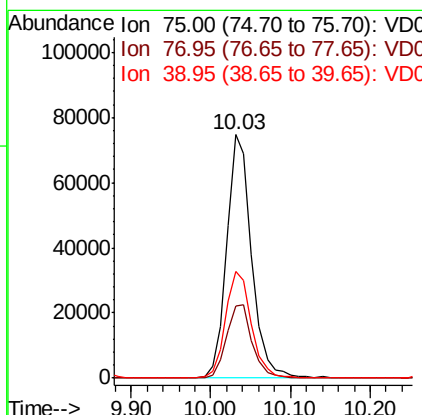
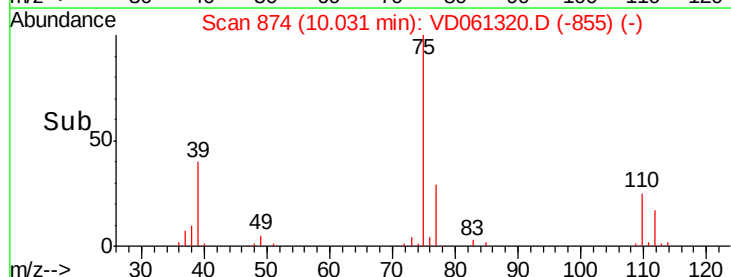
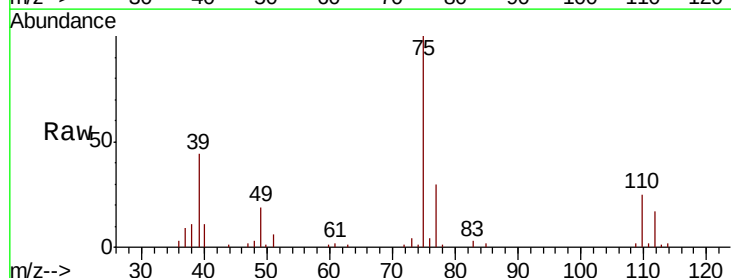
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

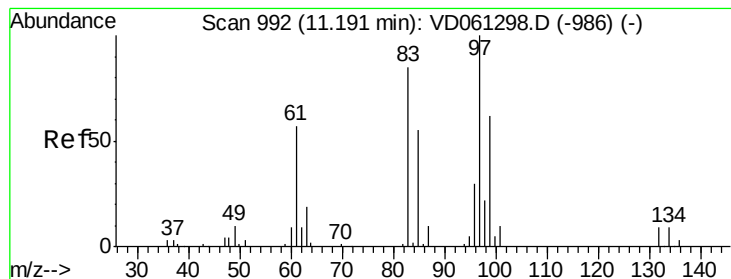
Tot Ion: 75 Resp: 162509
Ion Ratio Lower Upper
75 100
77 30.2 25.8 38.6



#54
cis-1,3-Dichloropropene
Concen: 67.470 ug/l
RT: 10.03 min Scan# 874
Delta R.T. -0.02 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 75 Resp: 163351
Ion Ratio Lower Upper
75 100
77 29.6 24.9 37.3
39 44.0 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 93.572 ug/l

RT: 11.18 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

Tot Ion: 97 Resp: 109366

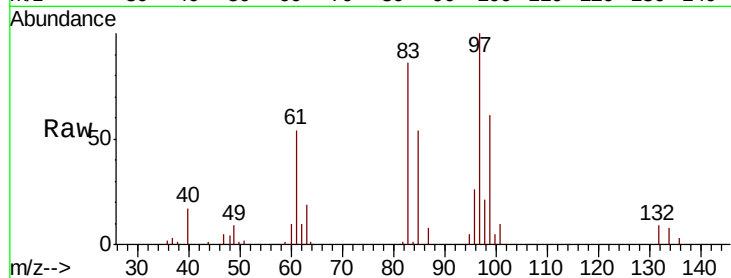
Ion Ratio Lower Upper

97 100

83 85.5 67.7 101.5

85 53.7 43.8 65.8

99 61.5 49.8 74.6

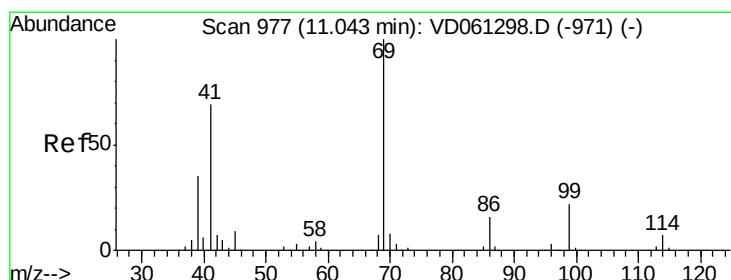
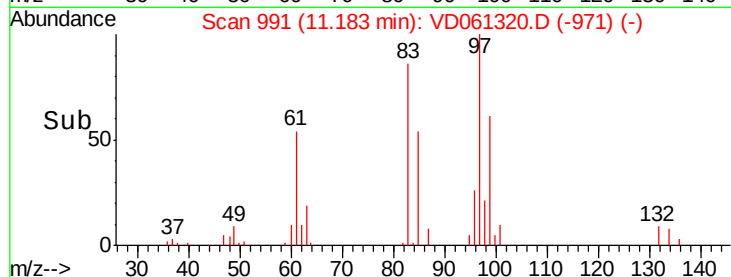
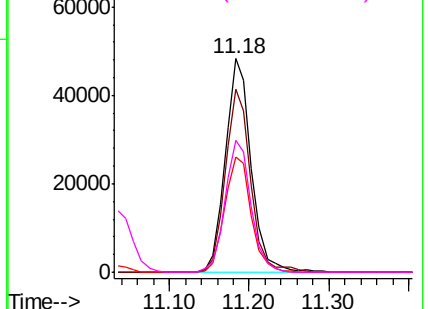


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 109.141 ug/l

RT: 11.04 min Scan# 976

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

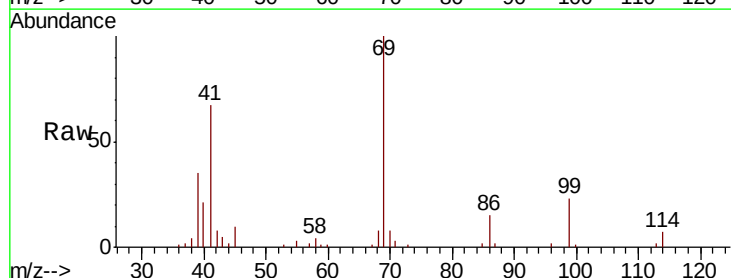
Tgt Ion: 69 Resp: 136120

Ion Ratio Lower Upper

69 100

41 66.5 54.9 82.3

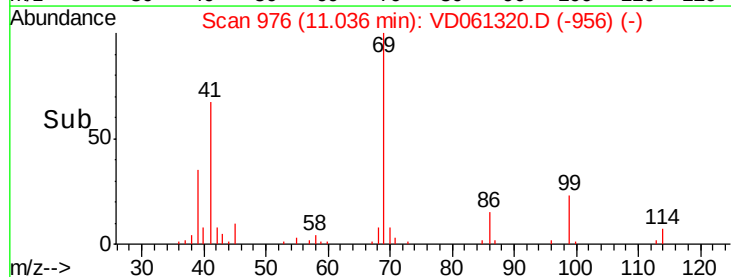
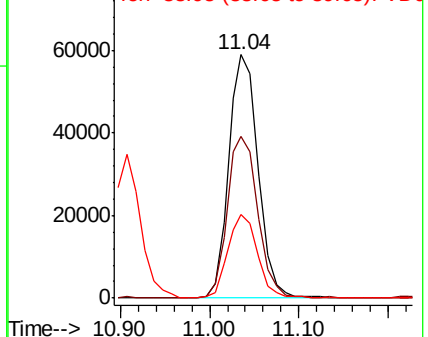
39 34.6 28.5 42.7

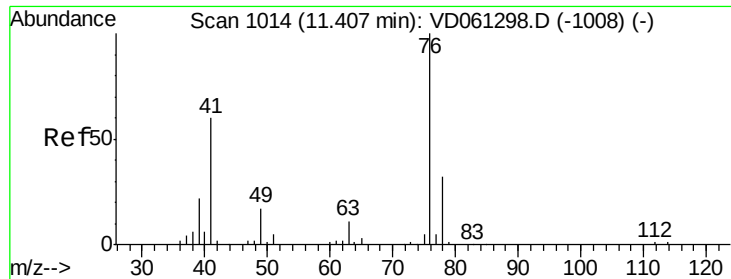


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

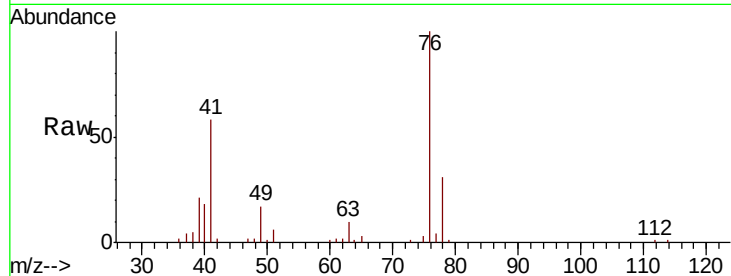




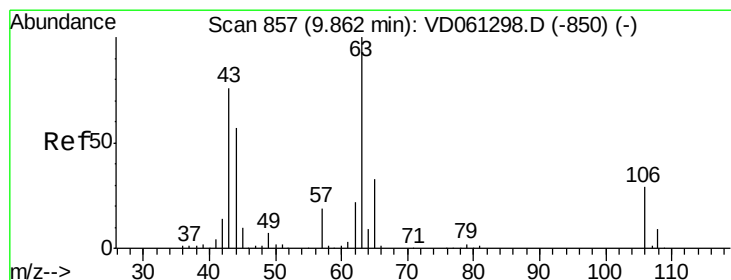
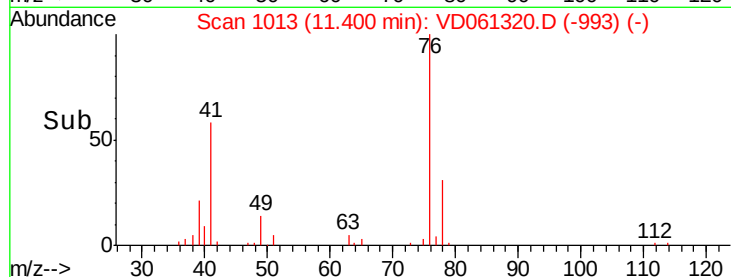
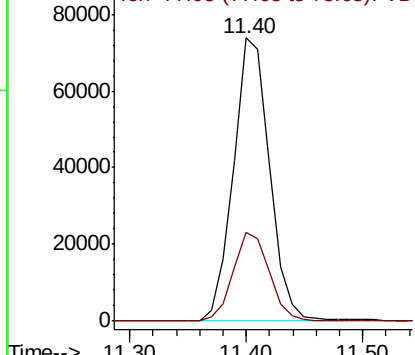
#57
 1,3-Dichloropropane
 Concen: 89.892 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

Tot Ion: 76 Resp: 158675
 Ion Ratio Lower Upper
 76 100
 78 31.3 25.7 38.5

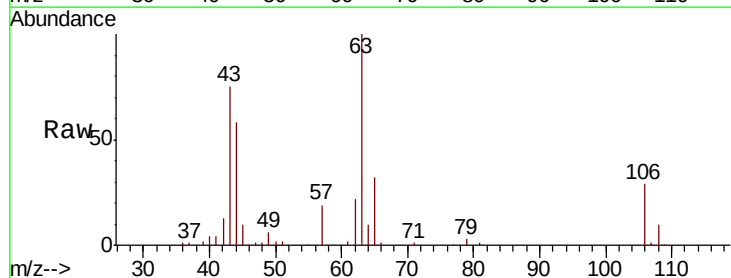


Abundance Ion 75.95 (75.65 to 76.65): VDC
 Ion 77.95 (77.65 to 78.65): VDC

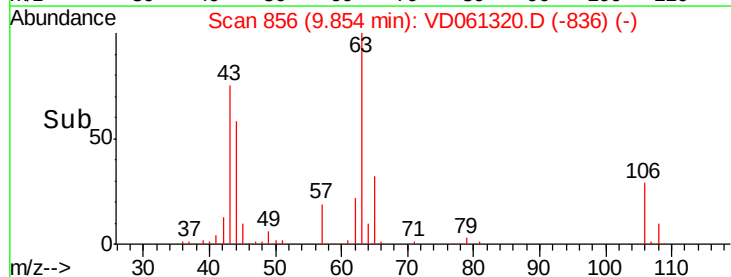
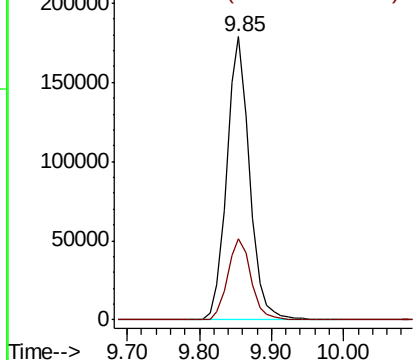


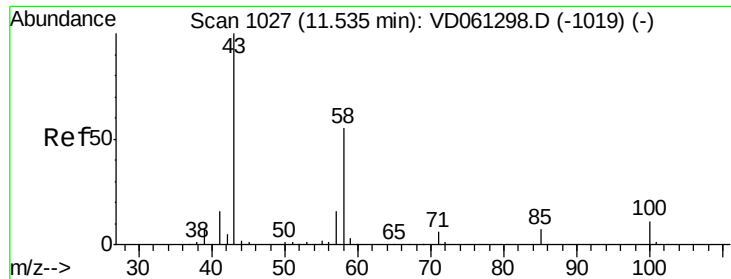
#58
 2-Chloroethyl Vinyl ether
 Concen: 606.259 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 63 Resp: 393364
 Ion Ratio Lower Upper
 63 100
 106 28.8 23.4 35.0



Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 105.95 (105.65 to 106.65): V

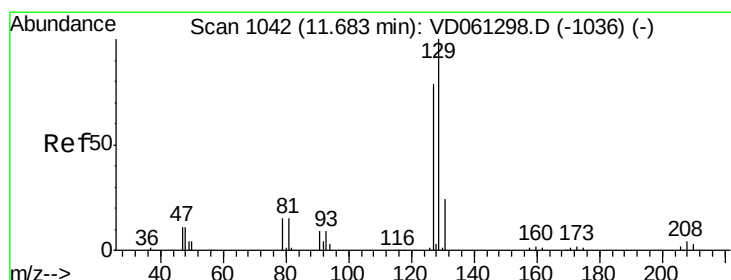
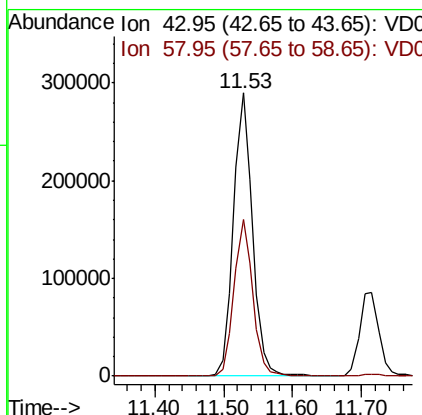
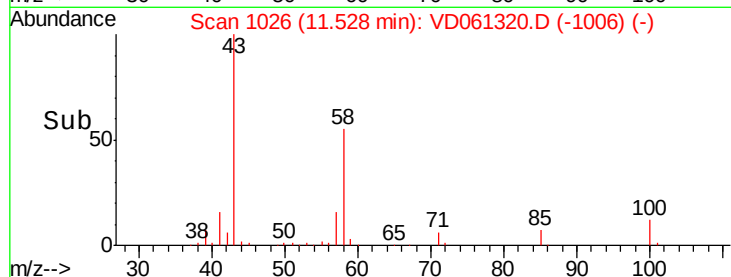
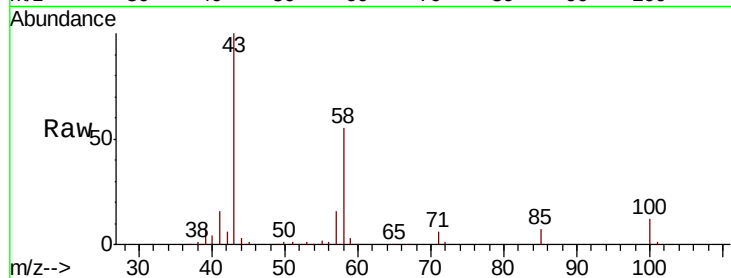




#59
2-Hexanone
Concen: 918.309 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

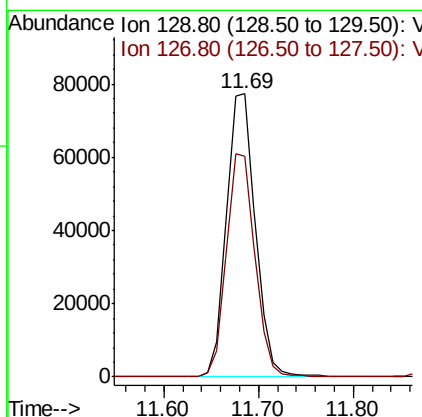
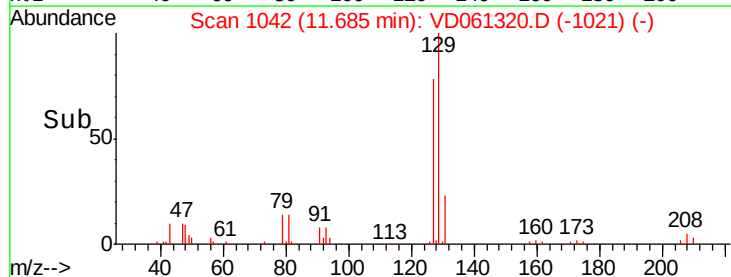
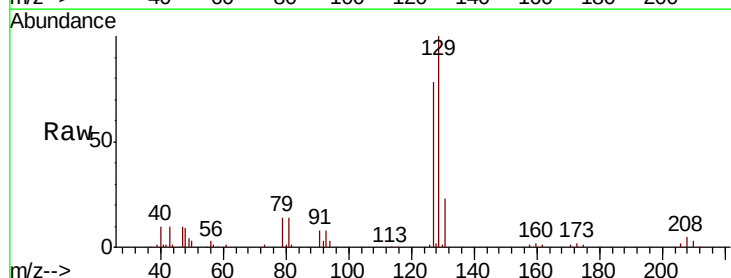
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

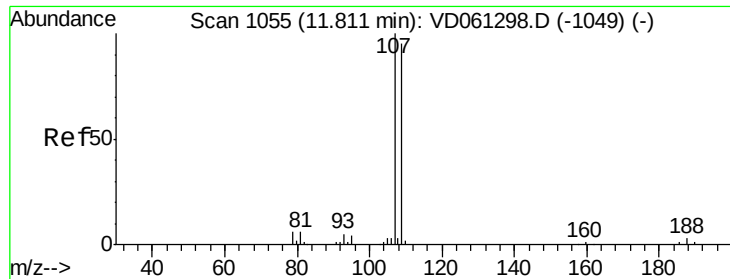
Tot Ion: 43 Resp: 553948
Ion Ratio Lower Upper
43 100
58 55.5 27.4 82.0



#60
Dibromochloromethane
Concen: 89.418 ug/l
RT: 11.69 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 129 Resp: 163689
Ion Ratio Lower Upper
129 100
127 78.0 39.6 119.0

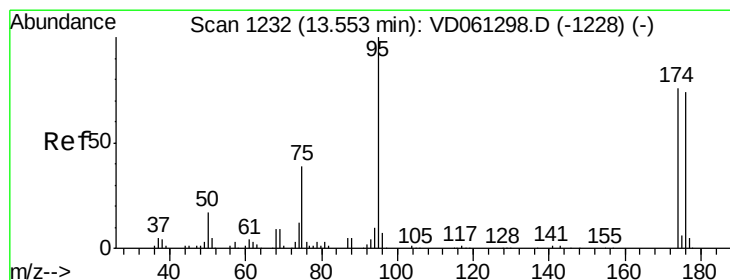
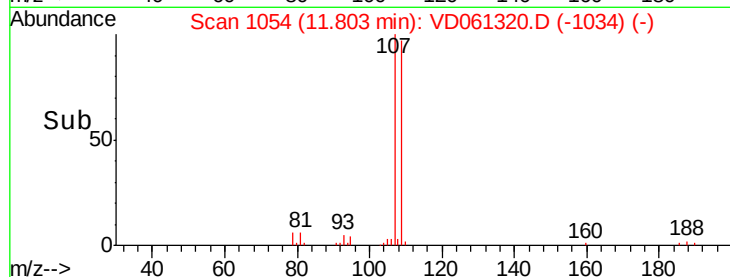
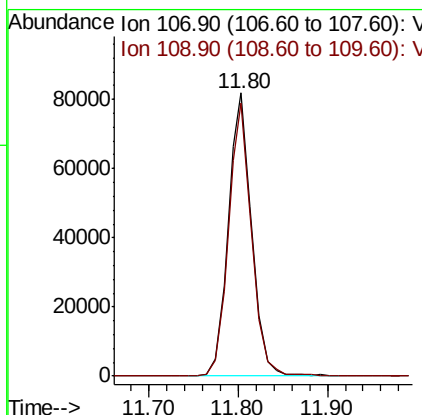
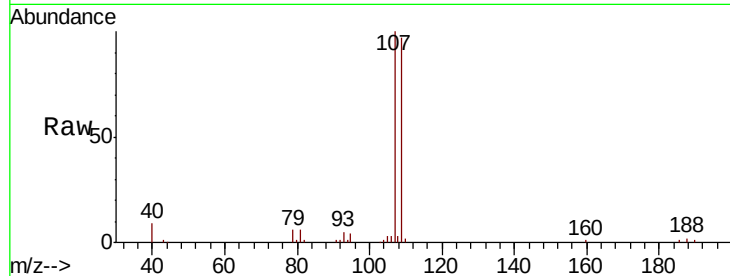




#61
 1,2-Dibromoethane
 Concen: 110.087 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

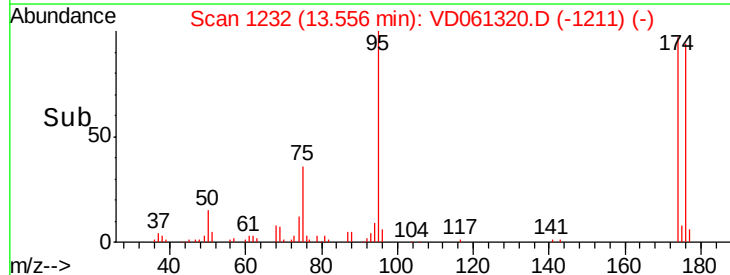
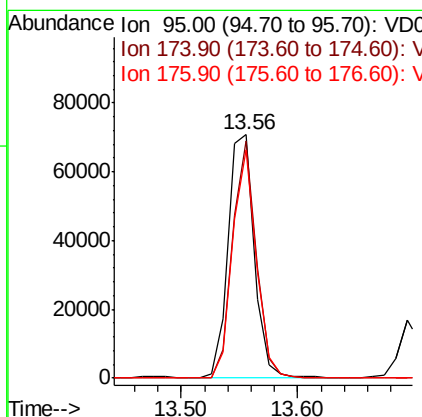
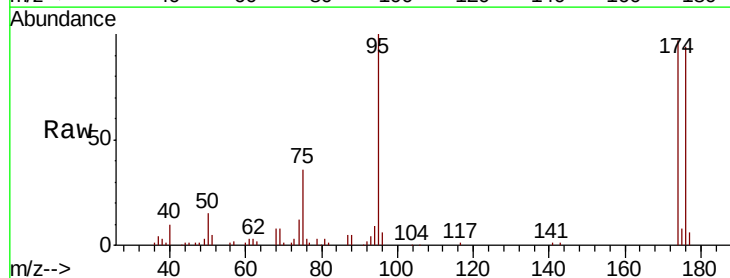
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

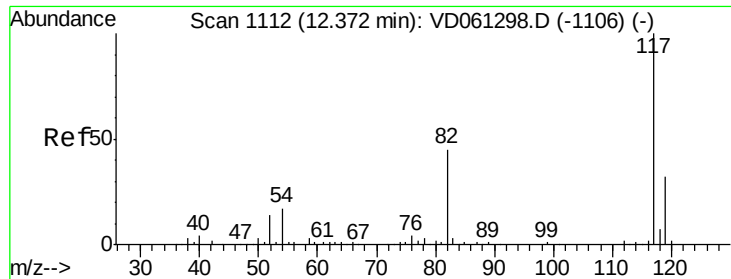
Tot Ion:107 Resp: 150337
 Ion Ratio Lower Upper
 107 100
 109 96.6 76.1 114.1



#62
 4-Bromofluorobenzene
 Concen: 110.087 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 95 Resp: 110536
 Ion Ratio Lower Upper
 95 100
 174 97.5 0.0 151.8
 176 93.9 0.0 148.0

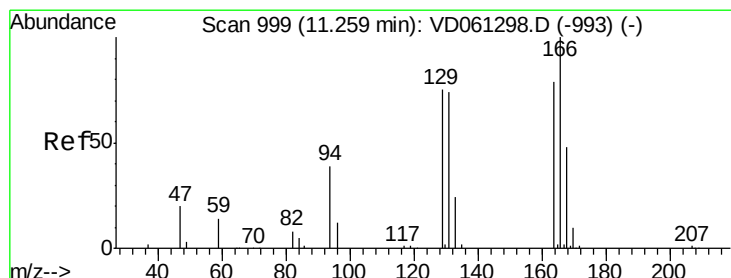
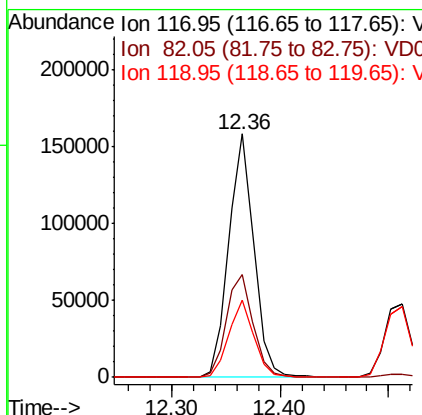
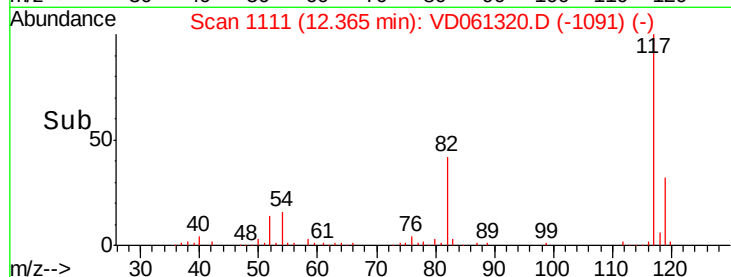
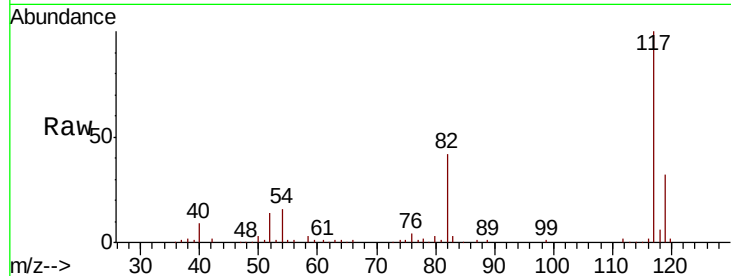




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

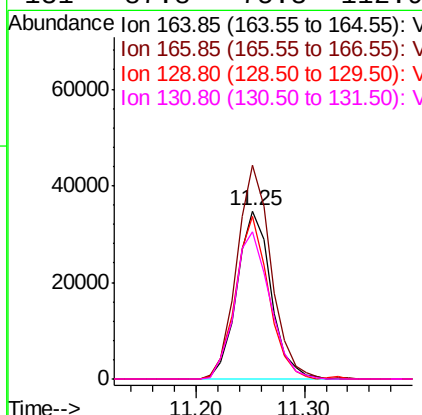
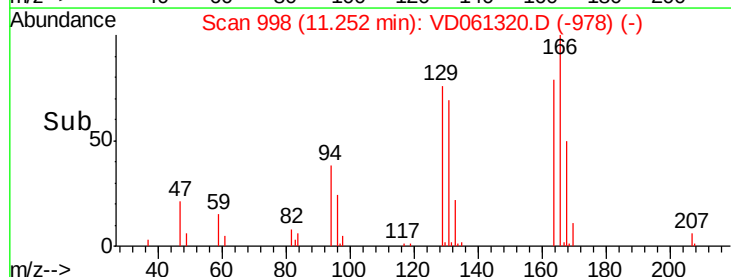
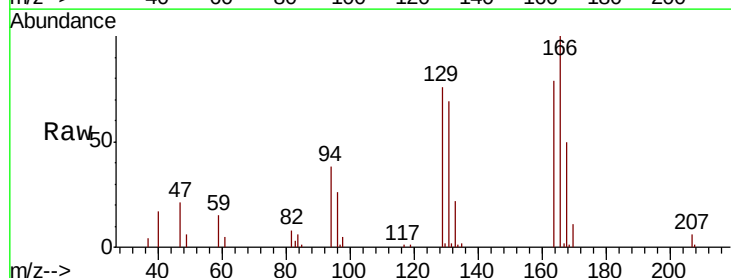
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

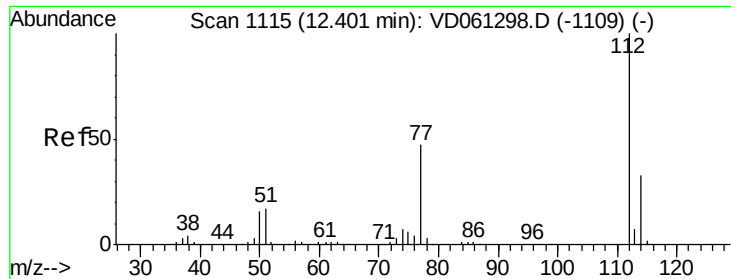
Tot Ion:117 Resp: 256641
Ion Ratio Lower Upper
117 100
82 42.2 35.7 53.5
119 31.6 25.9 38.9



#64
Tetrachloroethene
Concen: 42.833 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion:164 Resp: 75726
Ion Ratio Lower Upper
164 100
166 127.1 101.6 152.4
129 97.2 75.9 113.9
131 87.8 75.3 112.9

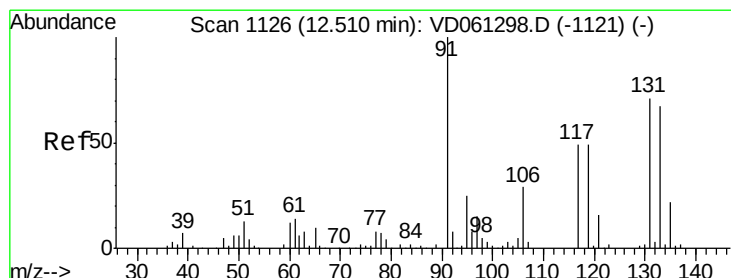
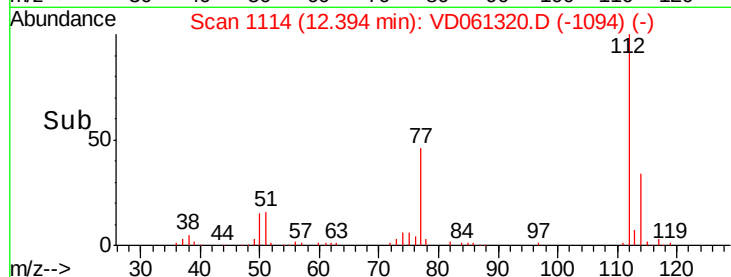
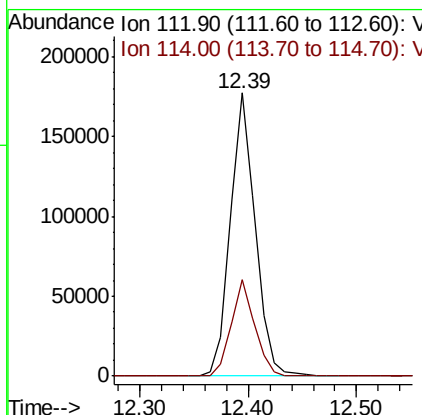
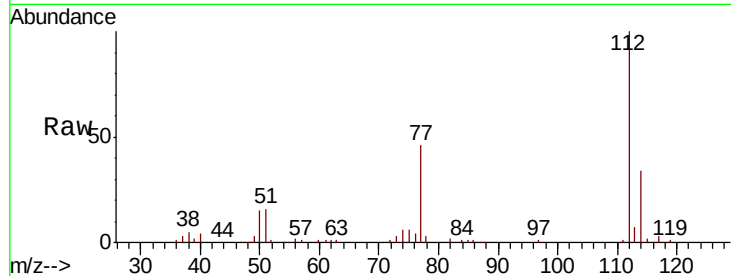




#65
Chlorobenzene
Concen: 60.031 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

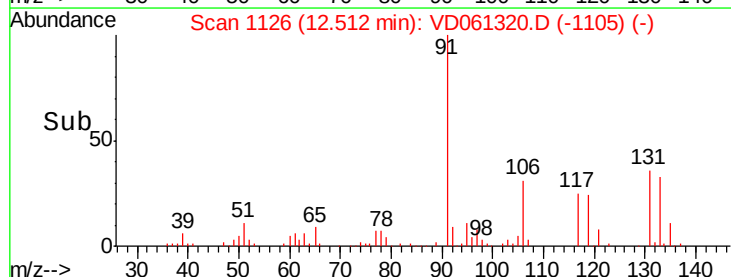
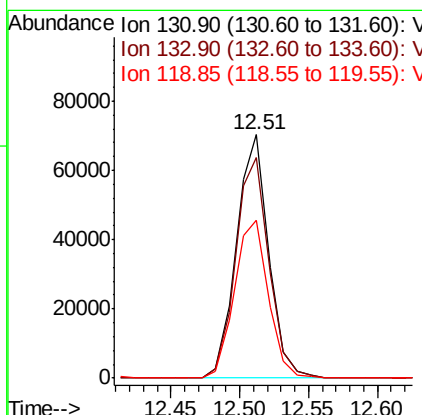
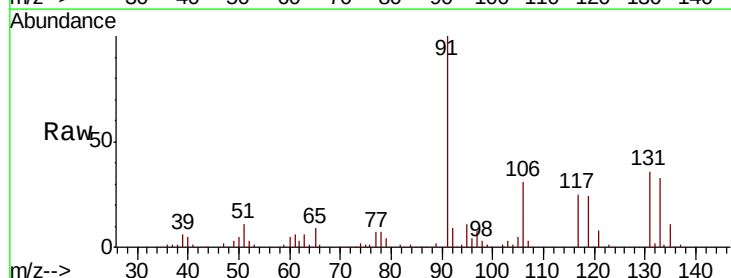
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

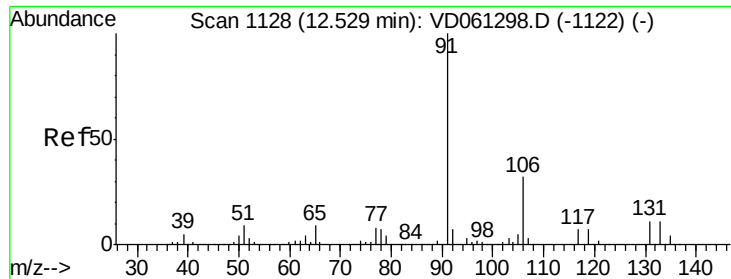
Tot Ion:112 Resp: 283771
Ion Ratio Lower Upper
112 100
114 34.2 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 62.229 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion:131 Resp: 114048
Ion Ratio Lower Upper
131 100
133 90.8 47.0 141.2
119 65.0 34.8 104.5

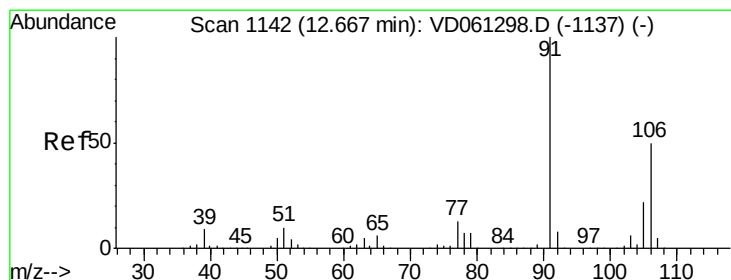
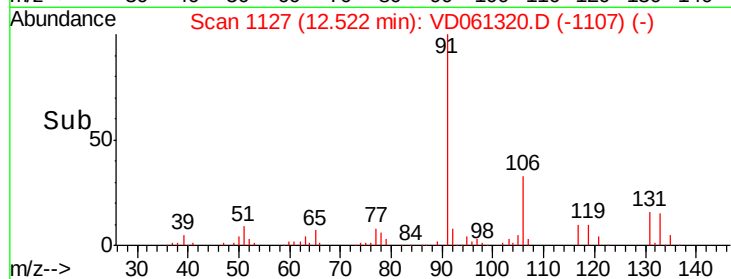
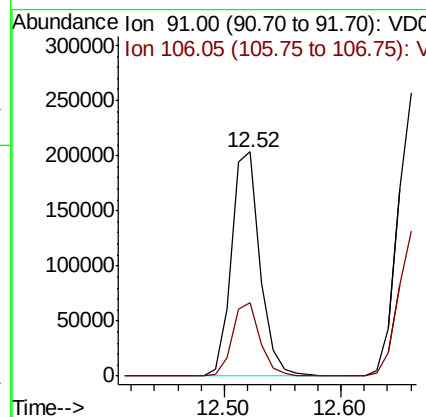
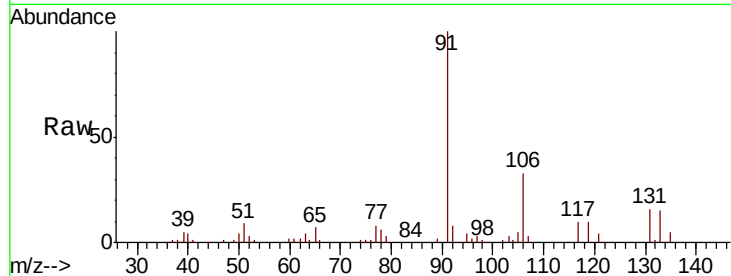




#67
Ethyl Benzene
Concen: 47.586 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

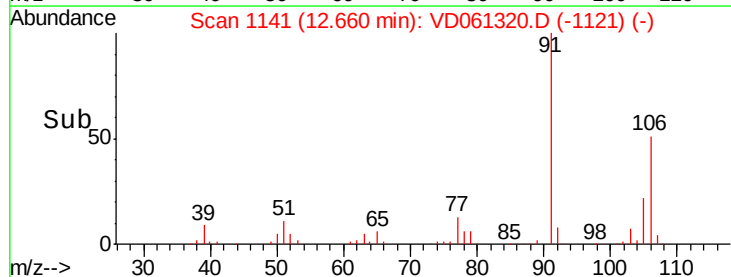
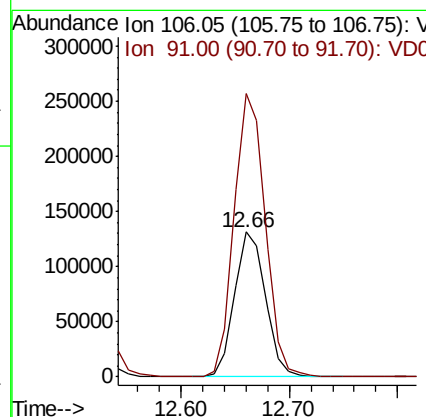
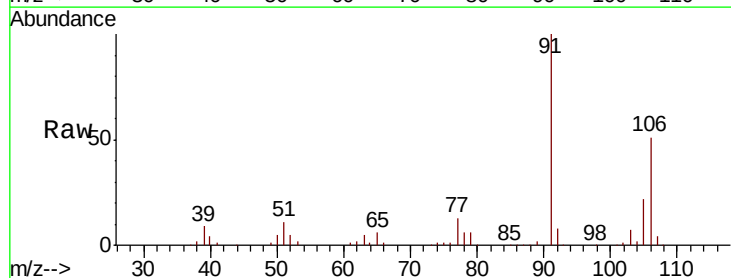
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

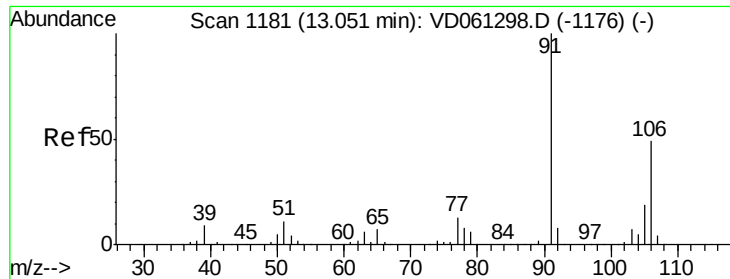
Tot Ion: 91 Resp: 344251
Ion Ratio Lower Upper
91 100
106 32.7 25.8 38.8



#68
m/p-Xylenes
Concen: 92.386 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 106 Resp: 260893
Ion Ratio Lower Upper
106 100
91 195.4 159.2 238.8

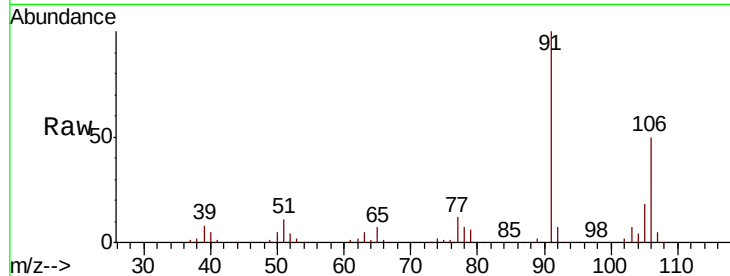




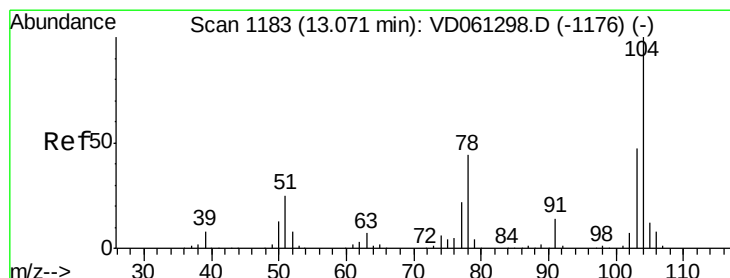
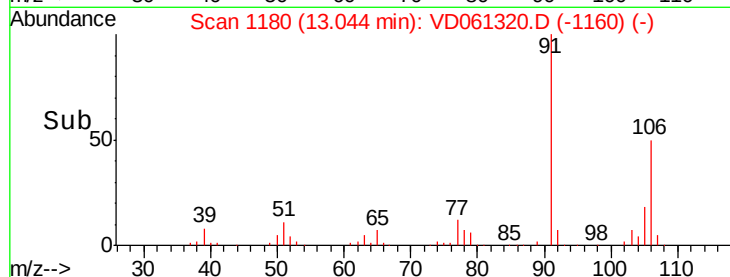
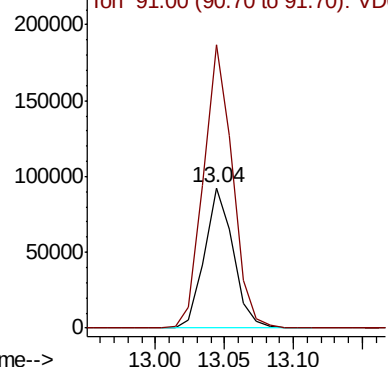
#69
o-Xylene
Concen: 51.116 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

Tot Ion:106 Resp: 133878
Ion Ratio Lower Upper
106 100
91 201.5 102.5 307.5

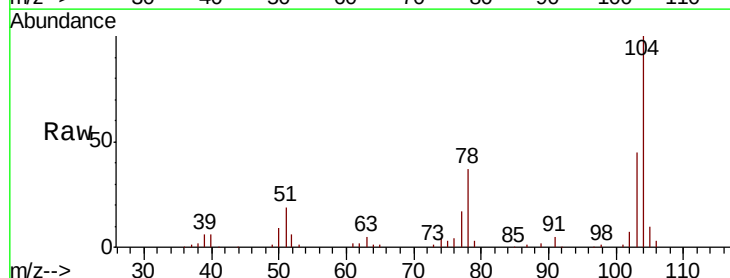


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

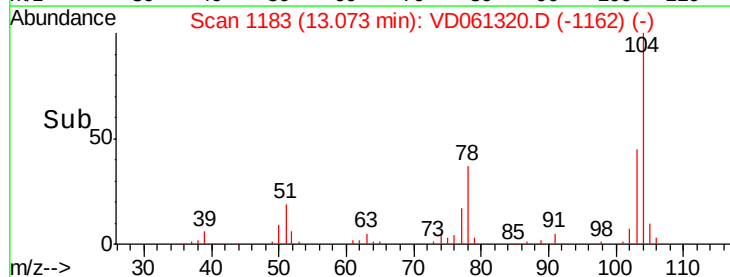
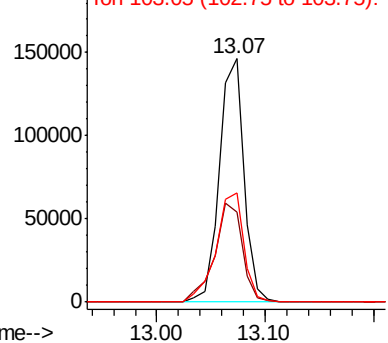


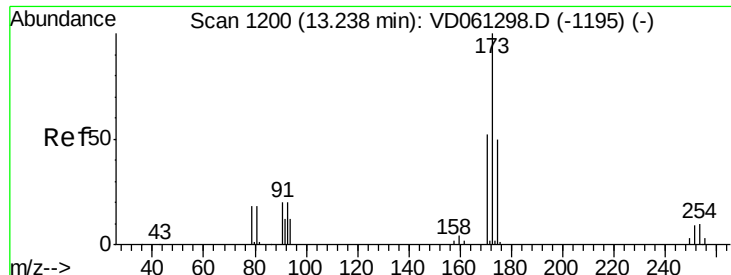
#70
Styrene
Concen: 51.925 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion:104 Resp: 230801
Ion Ratio Lower Upper
104 100
78 36.9 35.1 52.7
103 44.9 37.5 56.3



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: 100.165 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

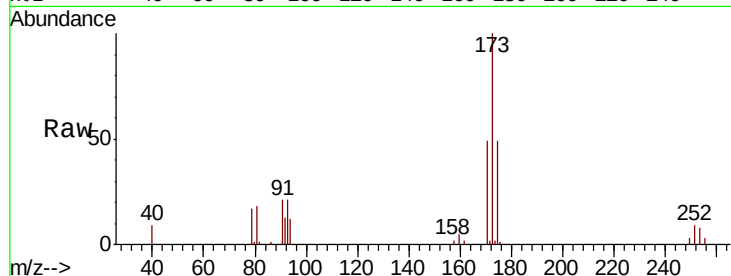
Tot Ion:173 Resp: 112336

Ion Ratio Lower Upper

173 100

175 48.8 24.9 74.7

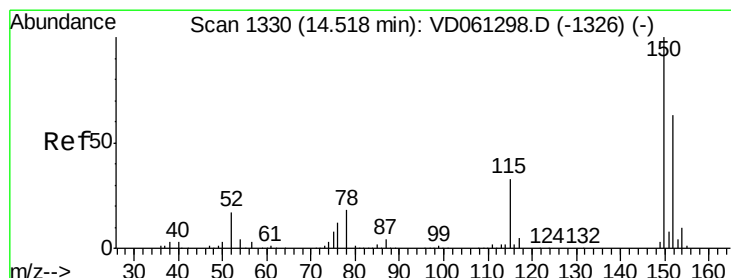
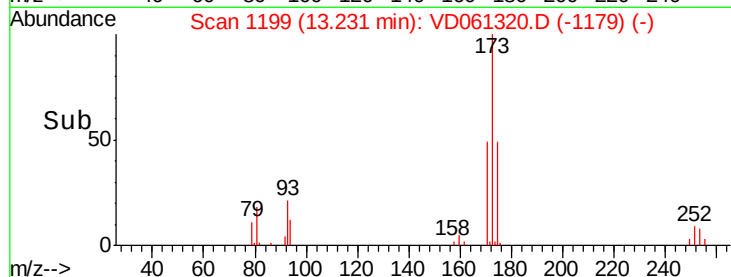
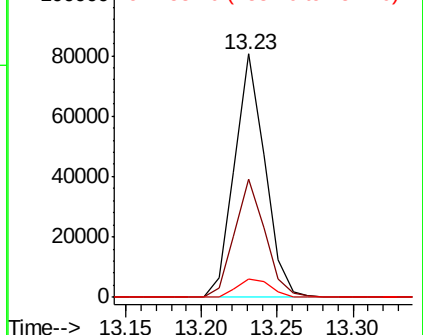
254 7.5 7.8 11.6#



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: VD061320.D

Acq: 26 Mar 2019 1:59

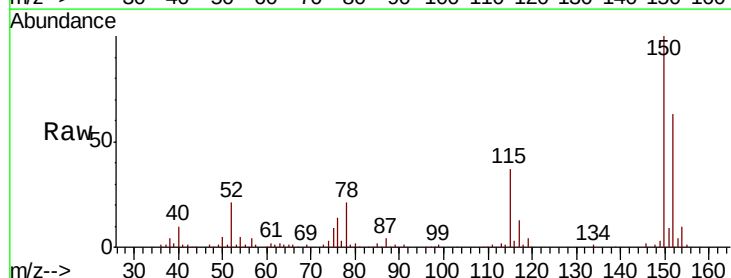
Tgt Ion:152 Resp: 106595

Ion Ratio Lower Upper

152 100

115 59.1 29.2 87.6

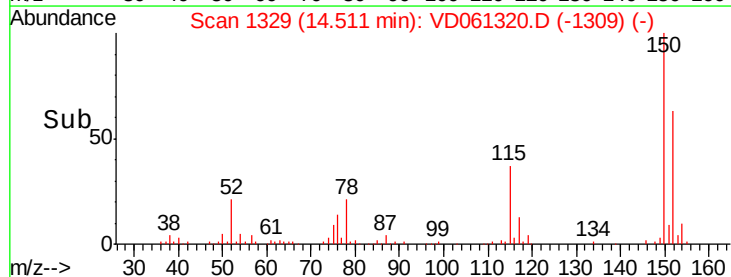
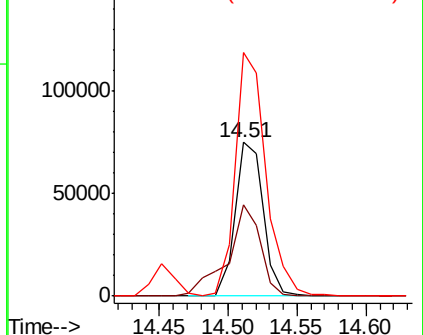
150 158.3 0.0 319.6

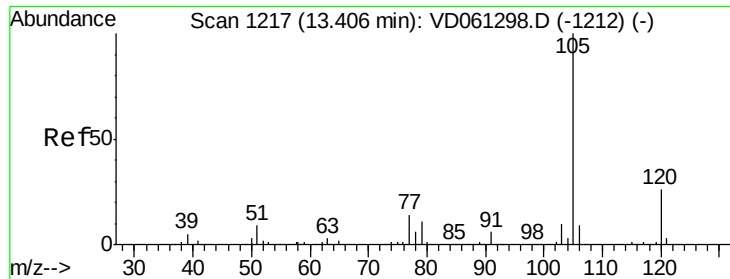


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 44.397 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

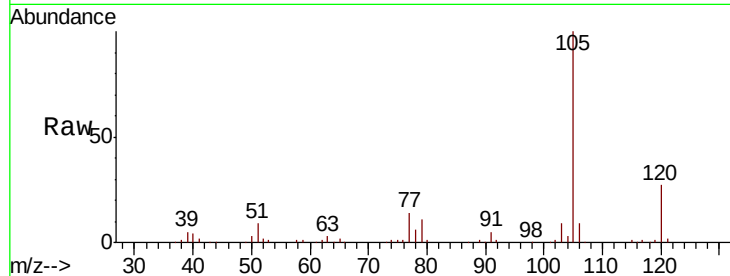
WP022SB439-190318-(13-14)MS

Tot Ion:105 Resp: 307812

Ion Ratio Lower Upper

105 100

120 27.0 13.1 39.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

250000

200000

150000

100000

50000

0

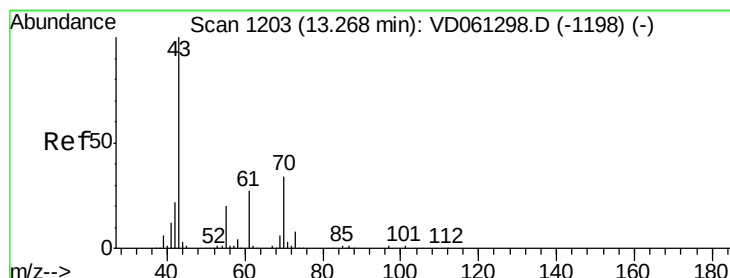
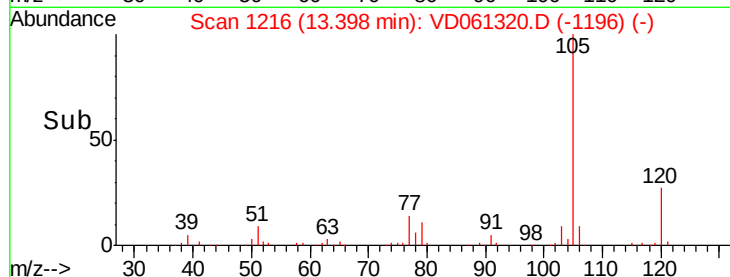
13.40

13.30

13.40

13.50

Time-->



#74

N-ethyl acetate

Concen: 78.030 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Tgt Ion: 43 Resp: 141539

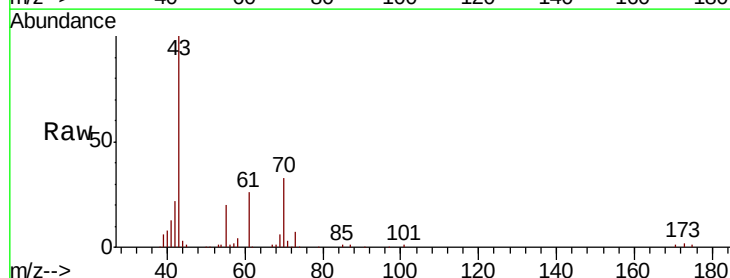
Ion Ratio Lower Upper

43 100

70 32.9 27.5 41.3

55 20.1 15.7 23.5

61 26.2 21.8 32.6



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

150000

100000

50000

0

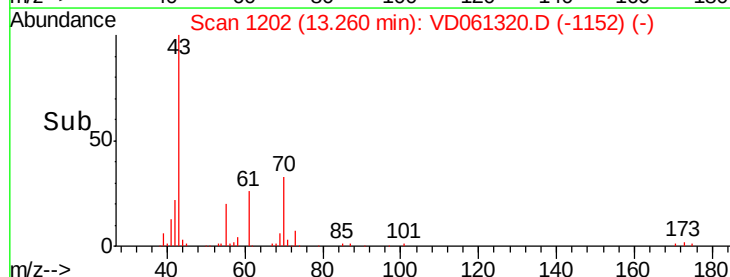
13.26

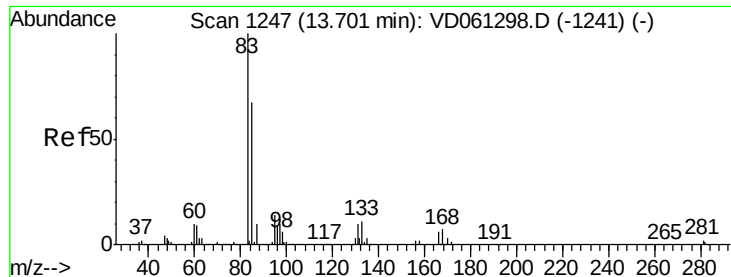
13.20

13.30

13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 121.496 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

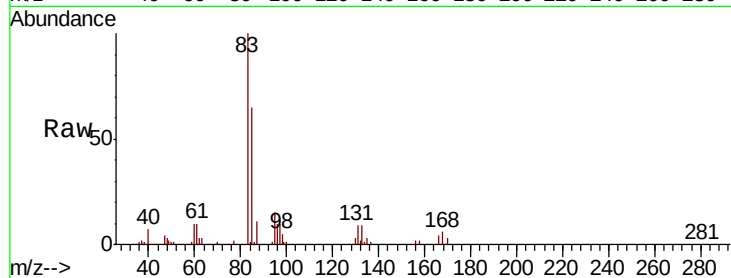
Tot Ion: 83 Resp: 163351

Ion Ratio Lower Upper

83 100

131 9.0 5.0 15.0

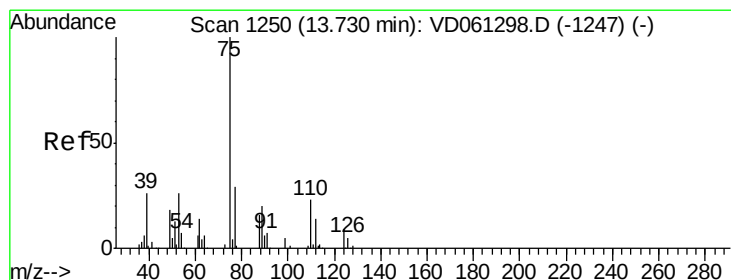
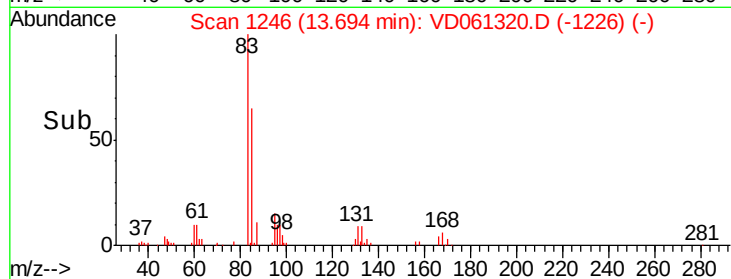
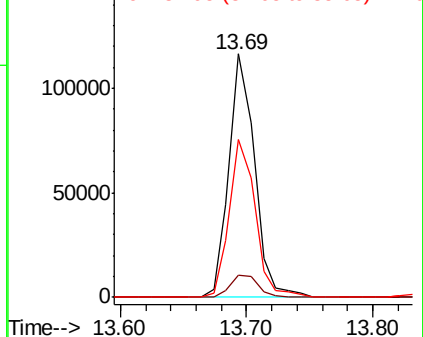
85 64.6 33.4 100.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 131.113 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD061320.D

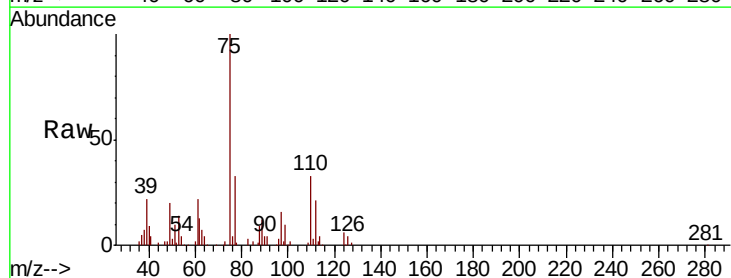
Acq: 26 Mar 2019 1:59

Tgt Ion: 75 Resp: 173808

Ion Ratio Lower Upper

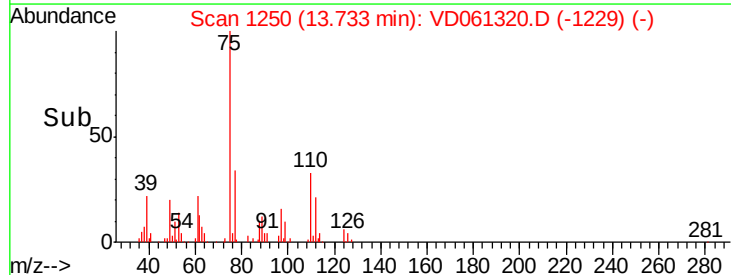
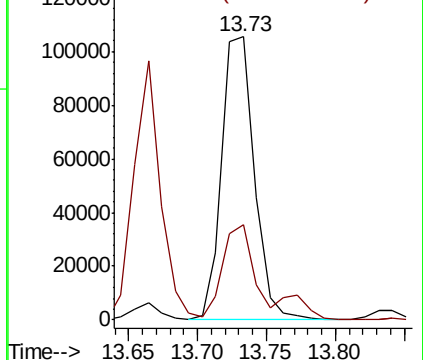
75 100

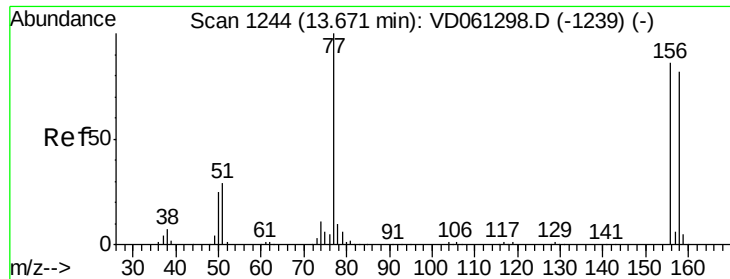
77 33.4 15.8 47.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 55.636 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

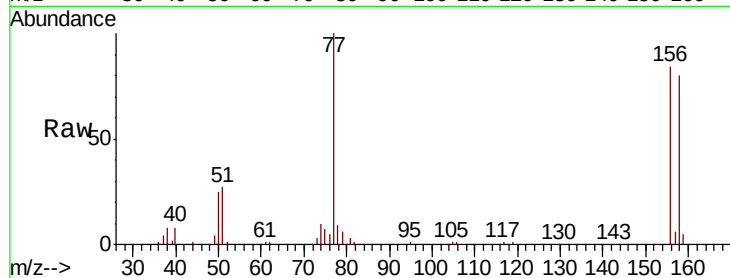
Tot Ion:156 Resp: 107746

Ion Ratio Lower Upper

156 100

77 119.2 58.4 175.1

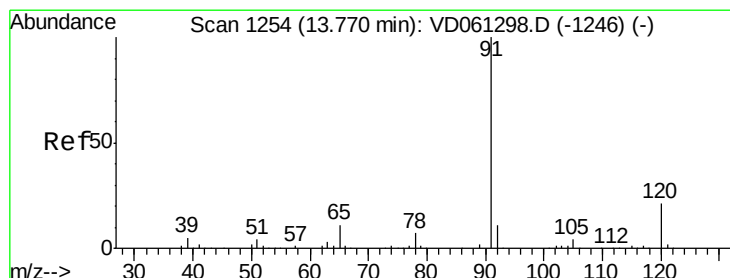
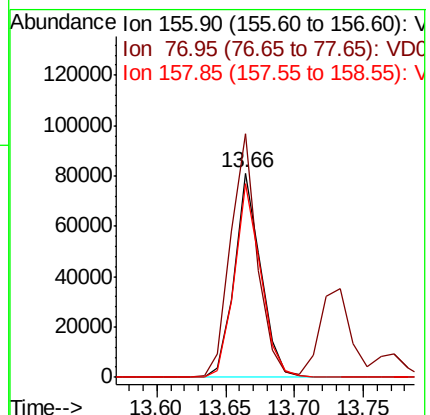
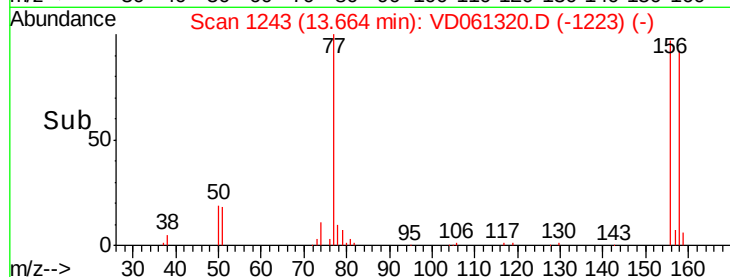
158 95.2 48.1 144.3



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 46.572 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD061320.D

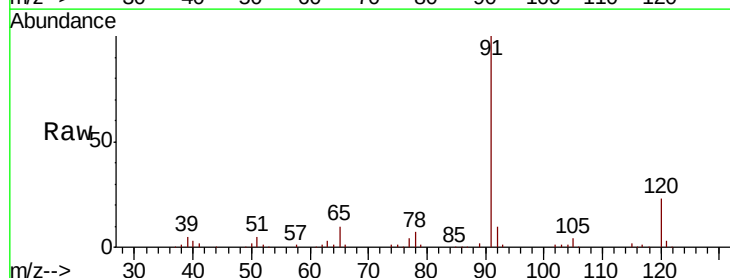
Acq: 26 Mar 2019 1:59

Tgt Ion: 91 Resp: 364288

Ion Ratio Lower Upper

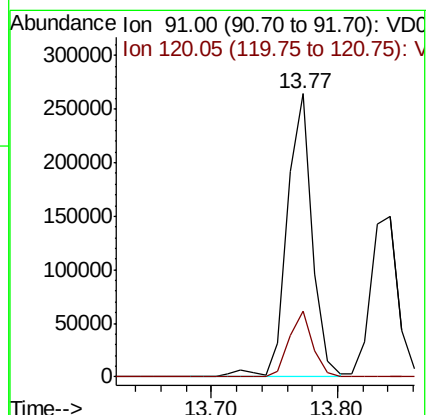
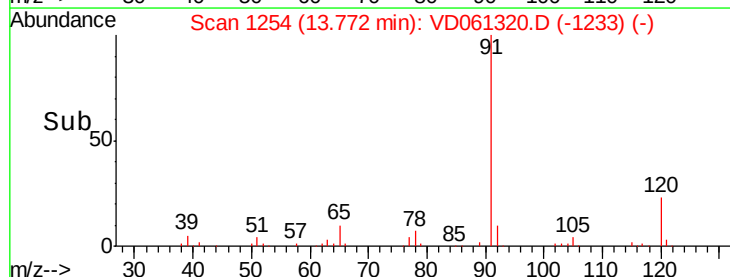
91 100

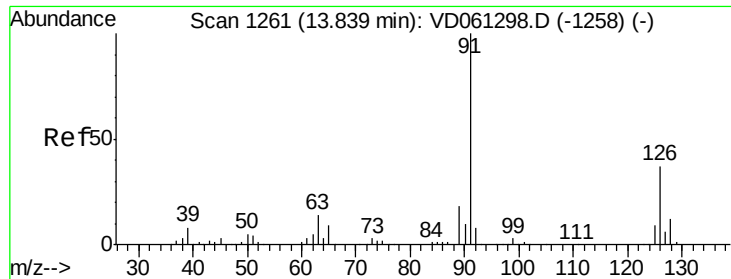
120 23.4 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 49.296 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

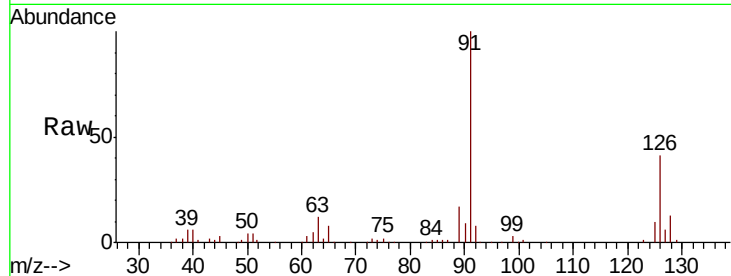
WP022SB439-190318-(13-14)MS

Tot Ion: 91 Resp: 224508

Ion Ratio Lower Upper

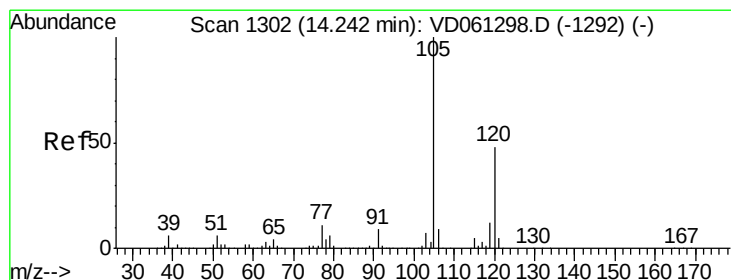
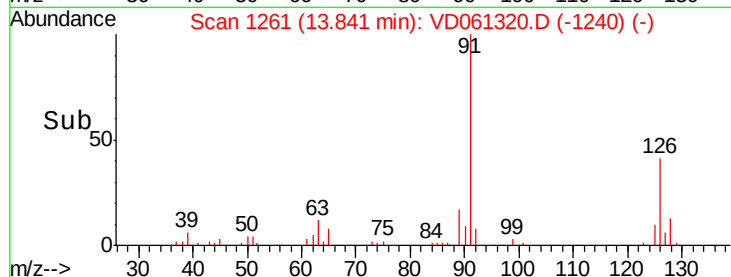
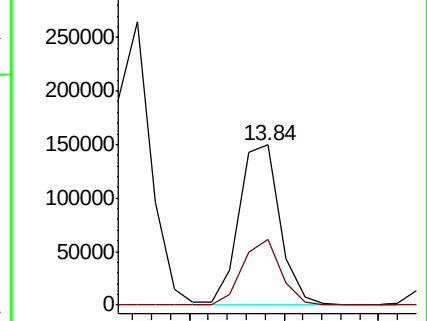
91 100

126 40.7 18.4 55.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 46.939 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD061320.D

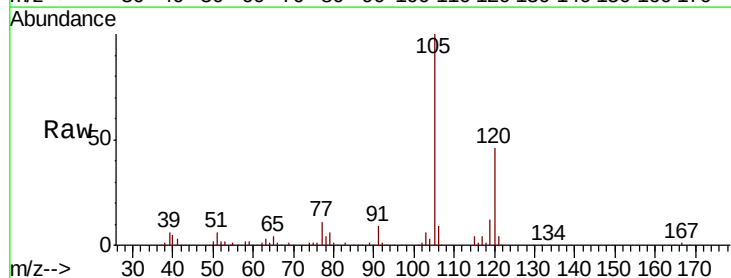
Acq: 26 Mar 2019 1:59

Tgt Ion: 105 Resp: 256730

Ion Ratio Lower Upper

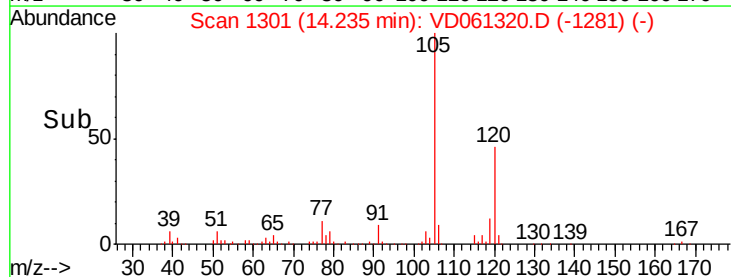
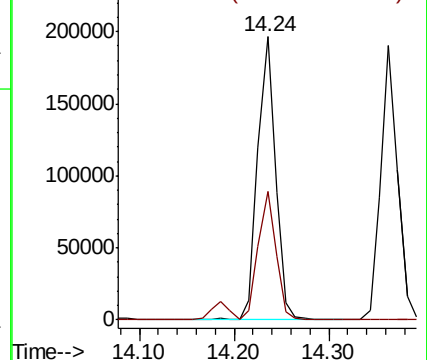
105 100

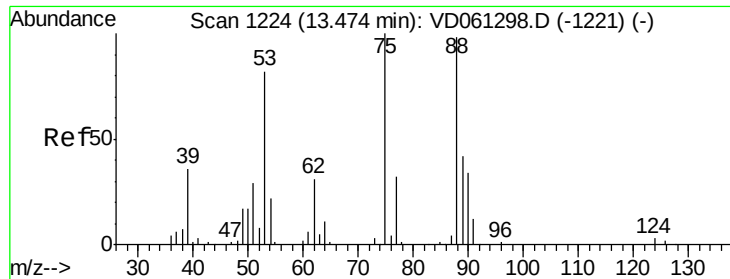
120 45.5 23.8 71.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

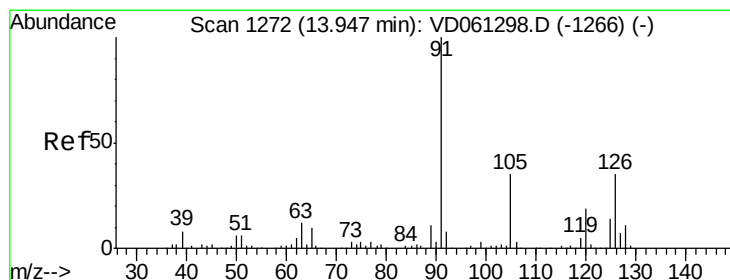
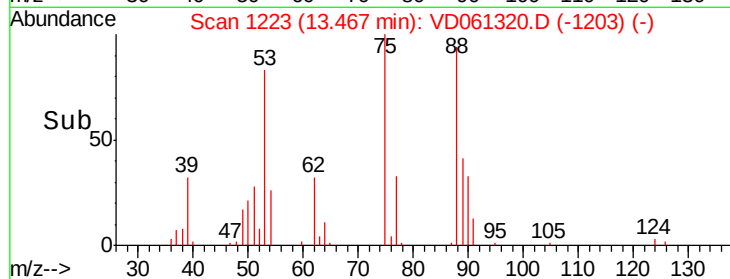
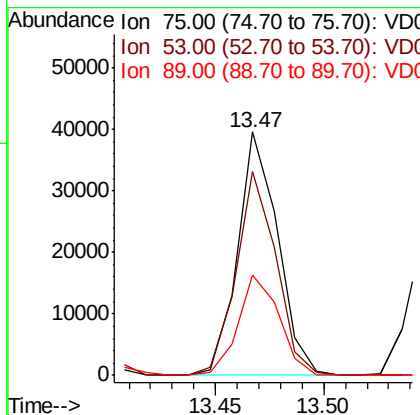
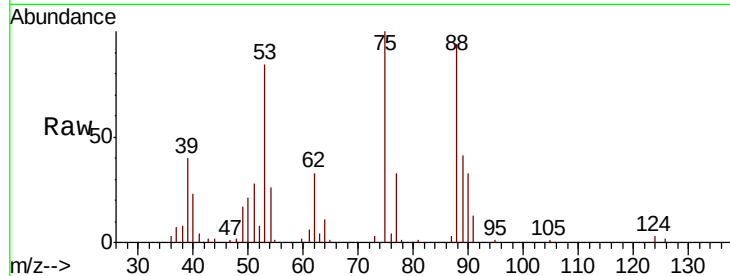




#81
trans-1,4-Dichloro-2-butene
Concen: 123.096 ug/l
RT: 13.47 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

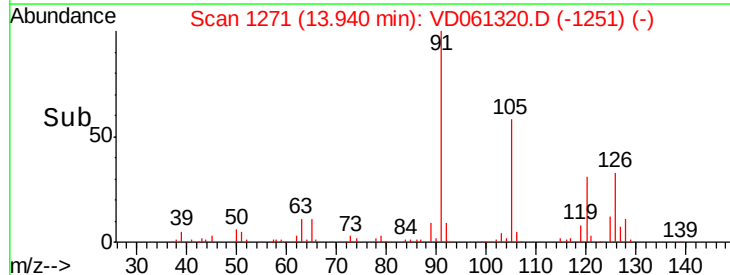
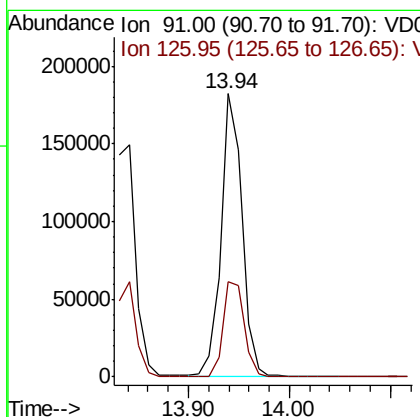
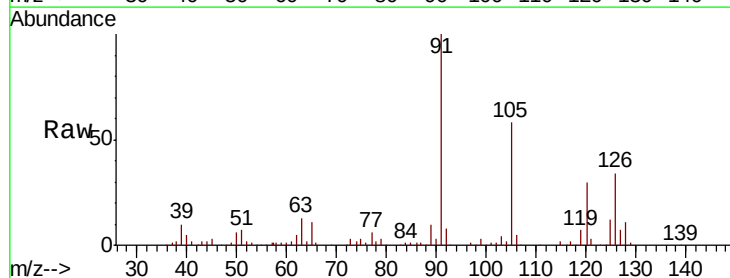
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

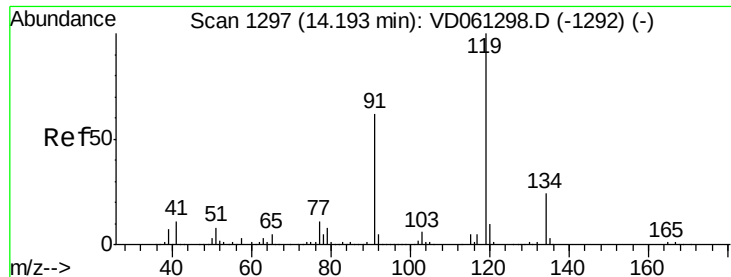
Tot Ion: 75 Resp: 51498
Ion Ratio Lower Upper
75 100
53 83.9 65.3 97.9
89 41.3 33.8 50.6



#82
4-Chlorotoluene
Concen: 53.600 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 91 Resp: 266871
Ion Ratio Lower Upper
91 100
126 33.6 17.7 53.1





#83

tert-Butylbenzene

Concen: 43.657 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

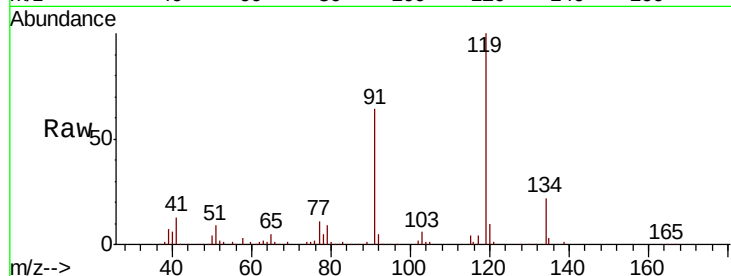
Tot Ion:119 Resp: 272631

Ion Ratio Lower Upper

119 100

91 64.0 31.1 93.5

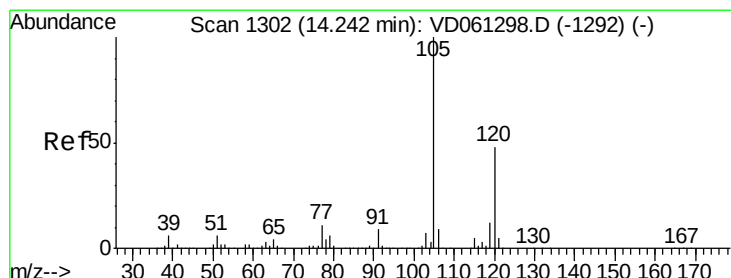
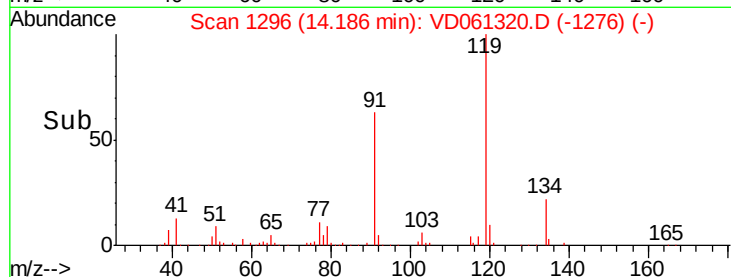
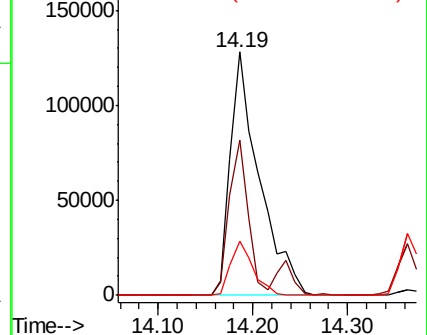
134 22.3 11.9 35.7



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: 46.939 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD061320.D

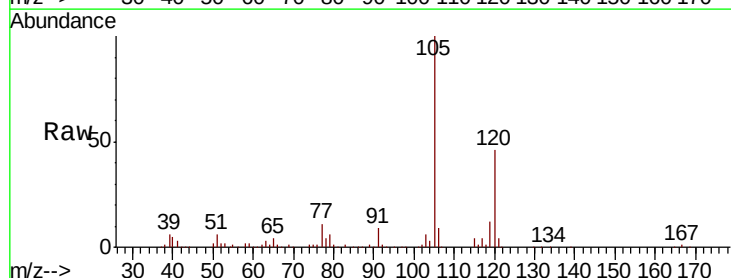
Acq: 26 Mar 2019 1:59

Tgt Ion:105 Resp: 256730

Ion Ratio Lower Upper

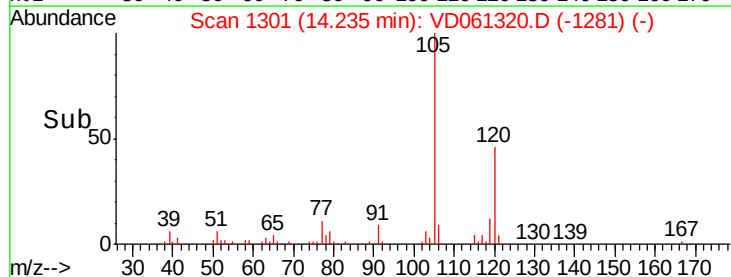
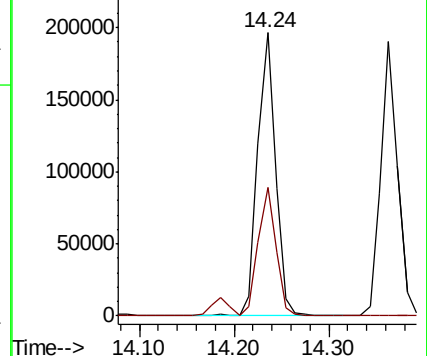
105 100

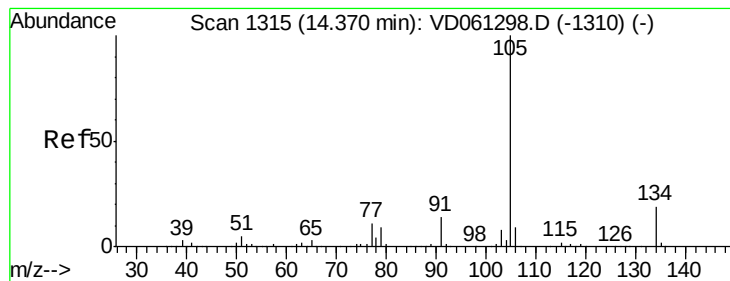
120 45.5 23.8 71.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 34.600 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

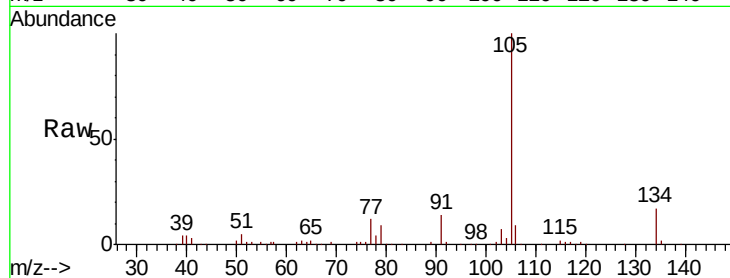
WP022SB439-190318-(13-14)MS

Tot Ion:105 Resp: 240637

Ion Ratio Lower Upper

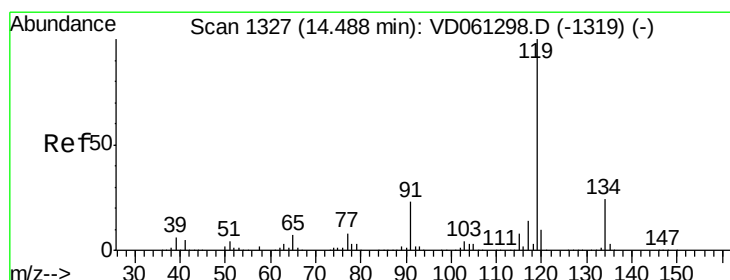
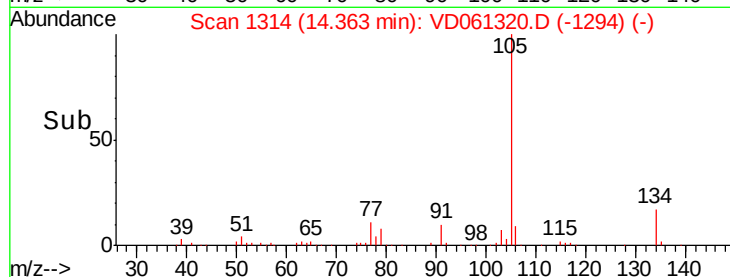
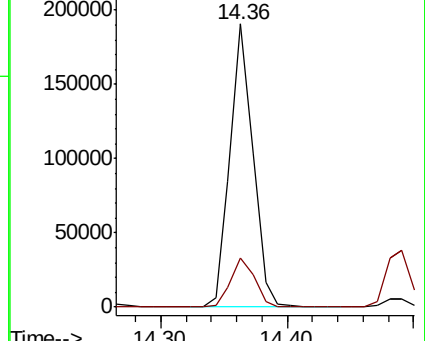
105 100

134 17.2 9.5 28.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 35.140 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

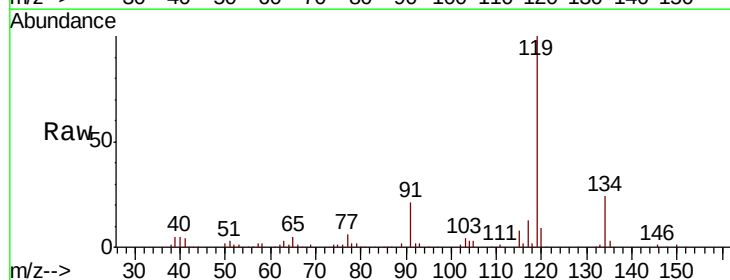
Tgt Ion:119 Resp: 218036

Ion Ratio Lower Upper

119 100

134 24.5 12.1 36.3

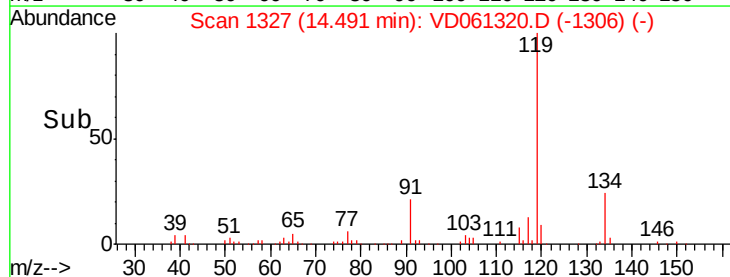
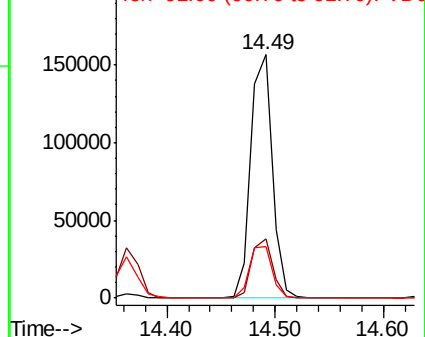
91 21.2 11.4 34.2

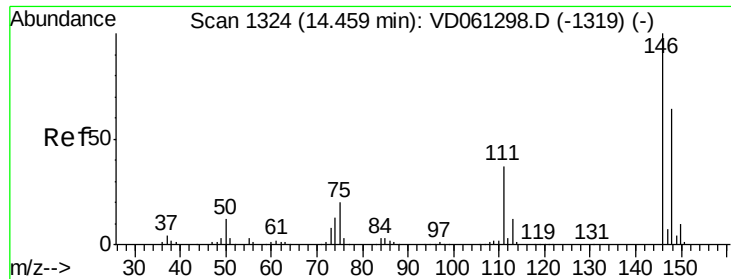


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

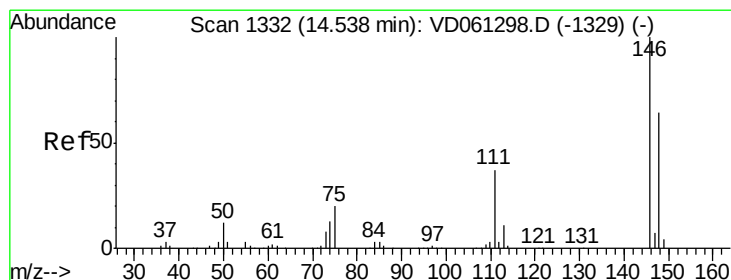
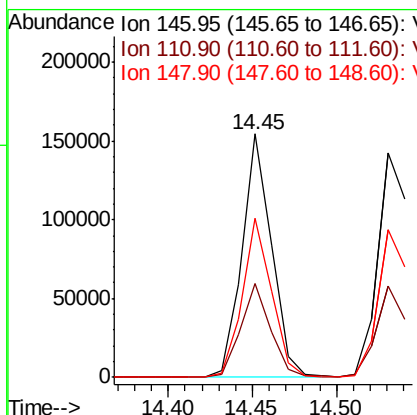
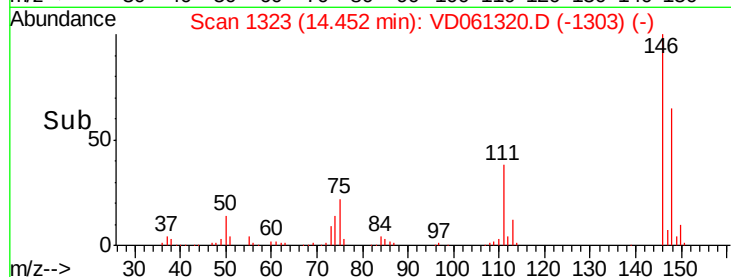
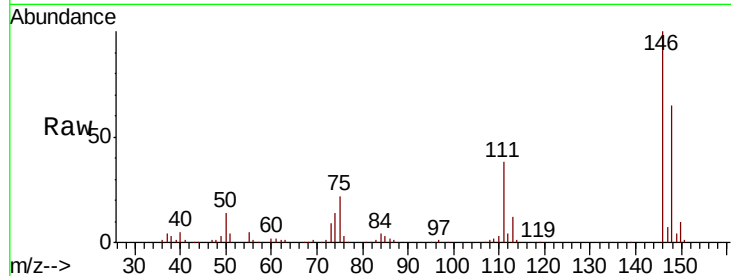




#87
 1,3-Dichlorobenzene
 Concen: 54.649 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

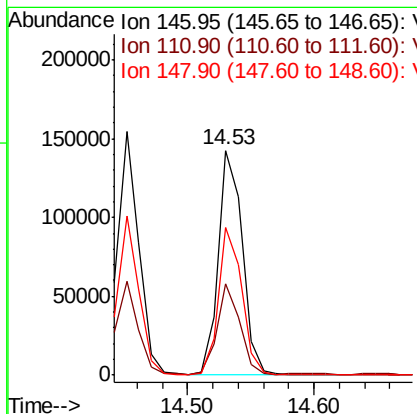
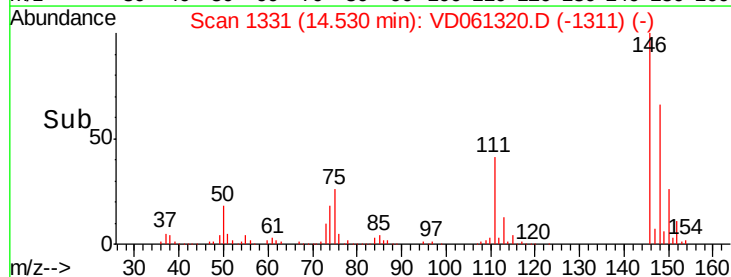
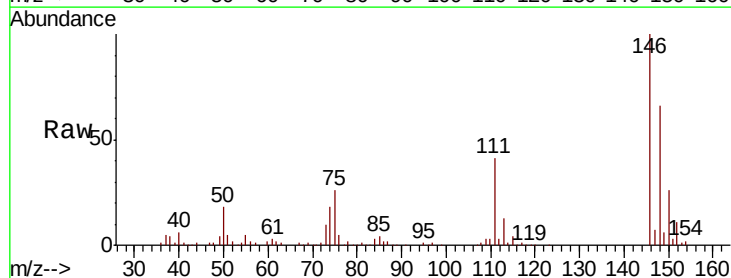
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

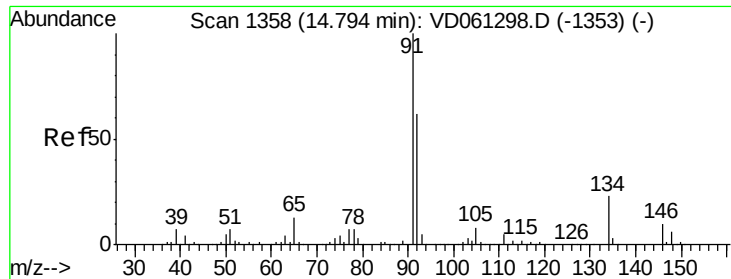
Tot Ion:146 Resp: 187595
 Ion Ratio Lower Upper
 146 100
 111 38.4 18.4 55.0
 148 65.4 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 57.030 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion:146 Resp: 189638
 Ion Ratio Lower Upper
 146 100
 111 40.7 18.6 55.6
 148 65.5 31.9 95.5

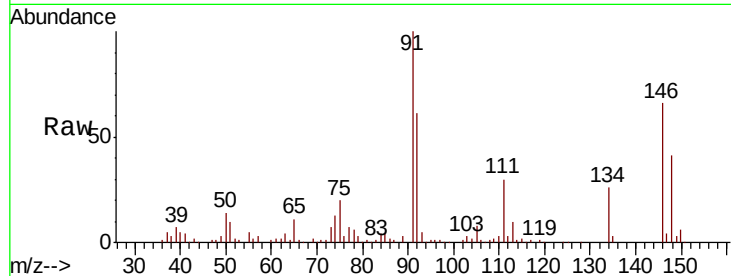




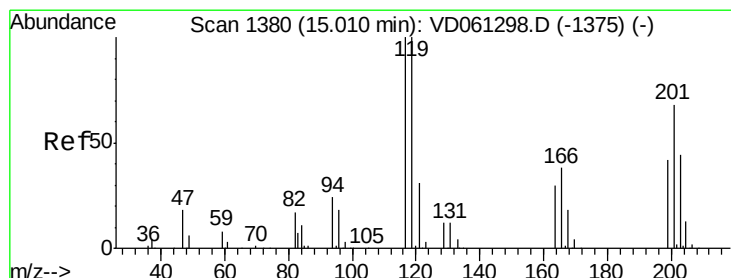
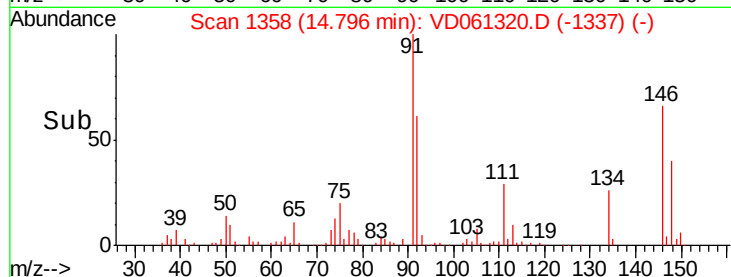
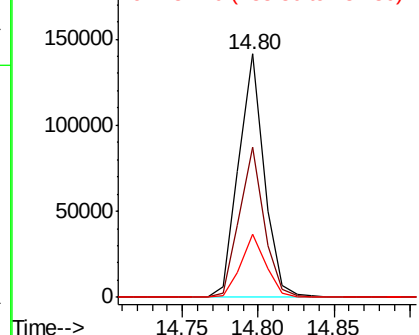
#89
n-Butylbenzene
Concen: 30.063 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MS

Tot Ion: 91 Resp: 165611
Ion Ratio Lower Upper
91 100
92 61.5 30.9 92.7
134 25.8 11.7 35.0

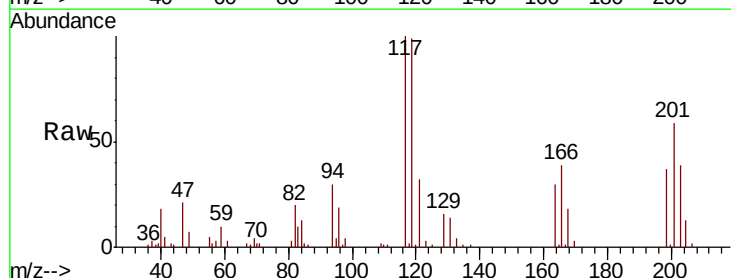


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.10 (133.80 to 134.80): V

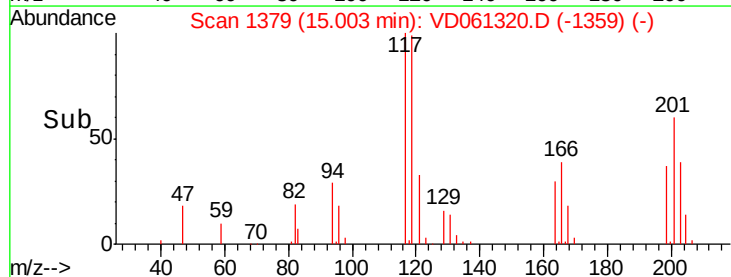
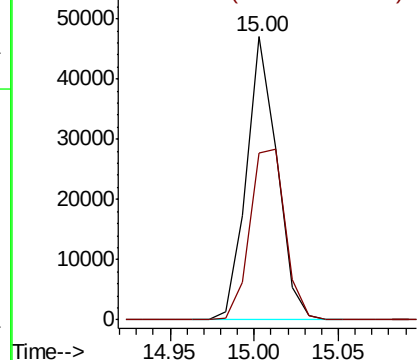


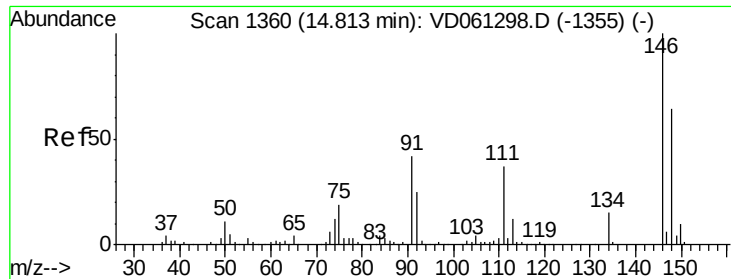
#90
Hexachloroethane
Concen: 35.639 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD061320.D
Acq: 26 Mar 2019 1:59

Tgt Ion: 117 Resp: 59289
Ion Ratio Lower Upper
117 100
201 59.0 34.0 101.8



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

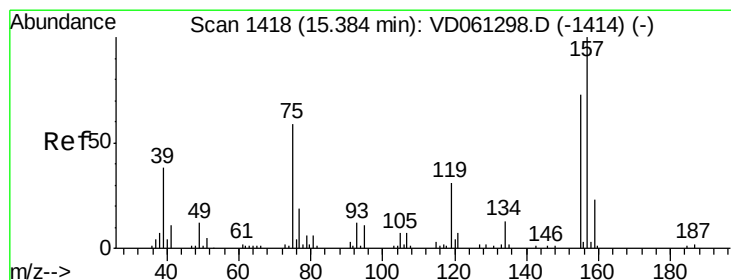
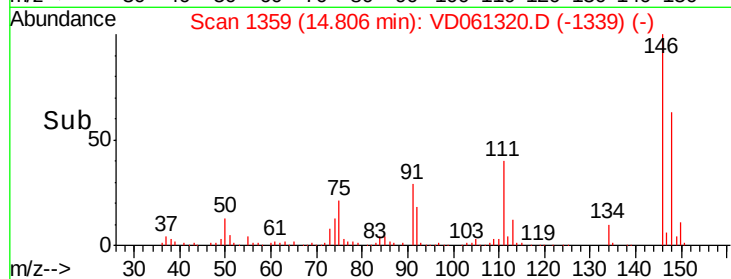
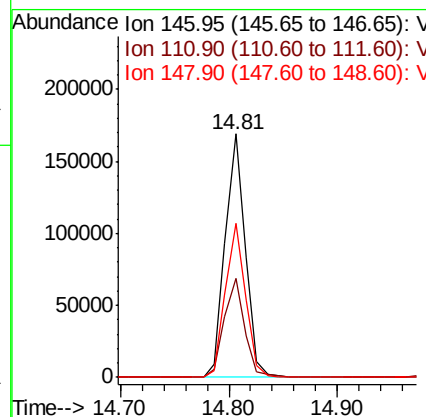
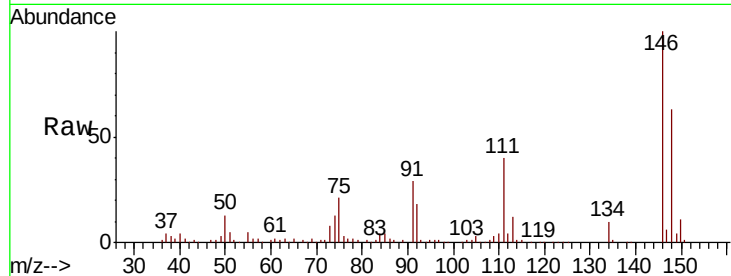




#91
 1,2-Dichlorobenzene
 Concen: 79.875 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

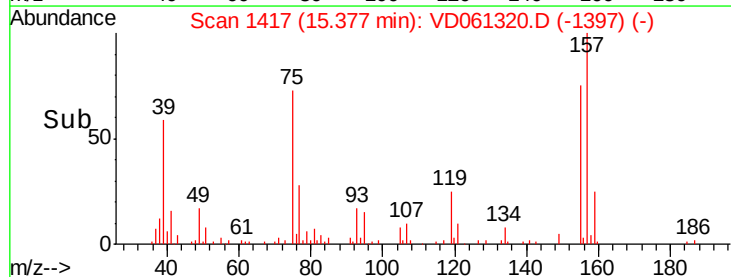
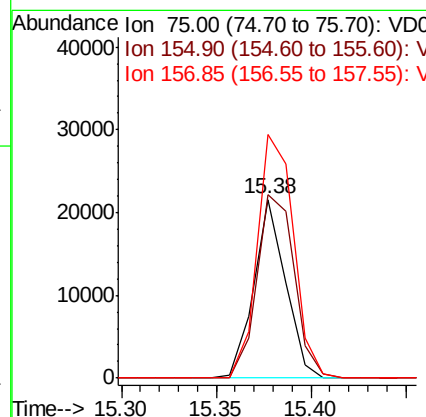
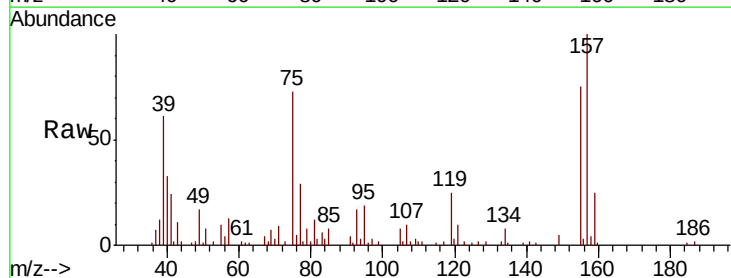
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

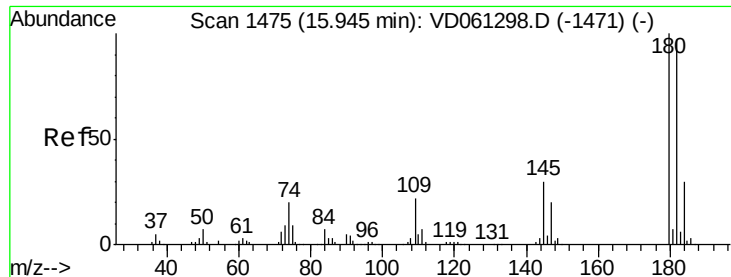
Tot Ion:146 Resp: 218786
 Ion Ratio Lower Upper
 146 100
 111 40.4 18.3 54.8
 148 63.1 31.9 95.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 150.138 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion: 75 Resp: 25224
 Ion Ratio Lower Upper
 75 100
 155 102.3 61.9 185.7
 157 136.2 84.4 253.2

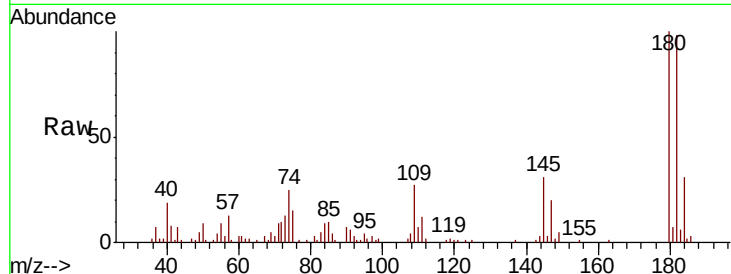




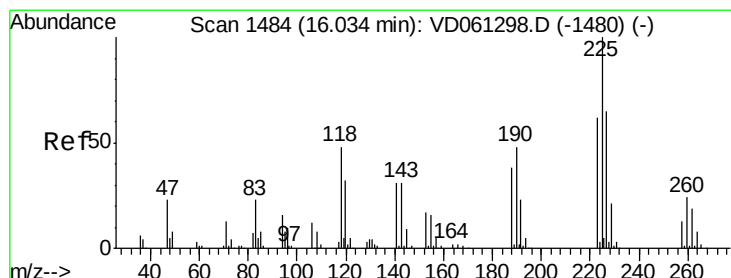
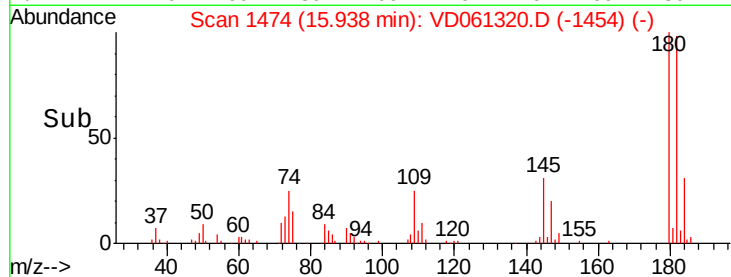
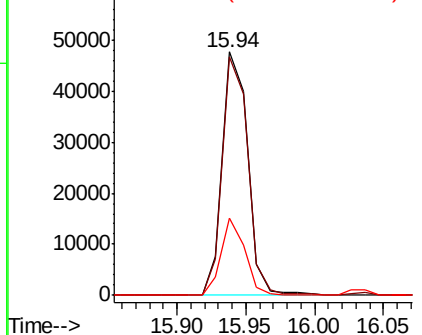
#93
 1,2,4-Trichlorobenzene
 Concen: 48.349 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

Tot Ion:180 Resp: 61163
 Ion Ratio Lower Upper
 180 100
 182 97.8 48.3 144.9
 145 31.5 14.8 44.4

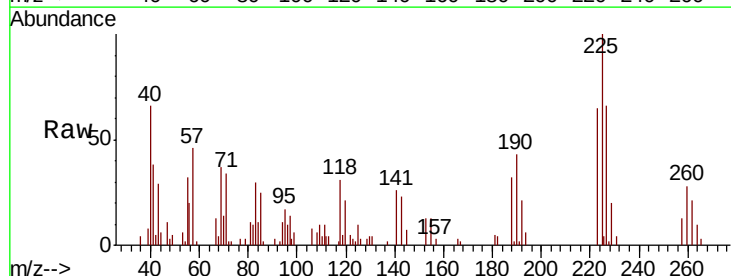


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

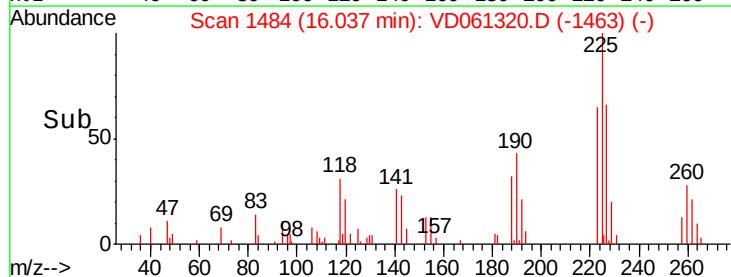
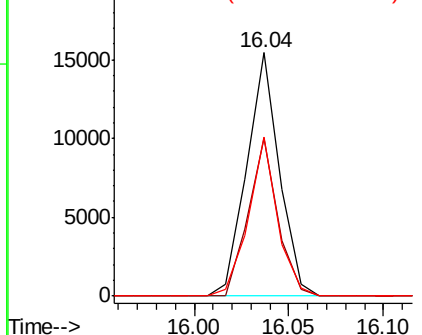


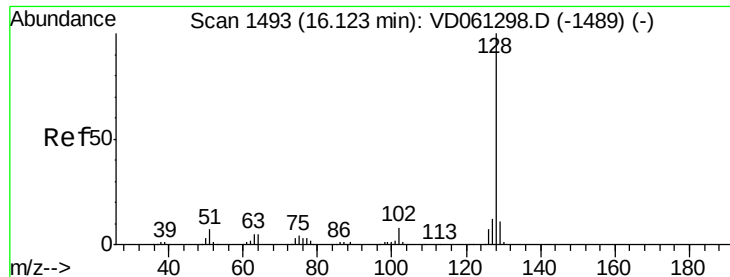
#94
 Hexachlorobutadiene
 Concen: 18.019 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD061320.D
 Acq: 26 Mar 2019 1:59

Tgt Ion:225 Resp: 18367
 Ion Ratio Lower Upper
 225 100
 223 64.6 30.9 92.8
 227 65.5 32.6 97.7



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: 108.535 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MS

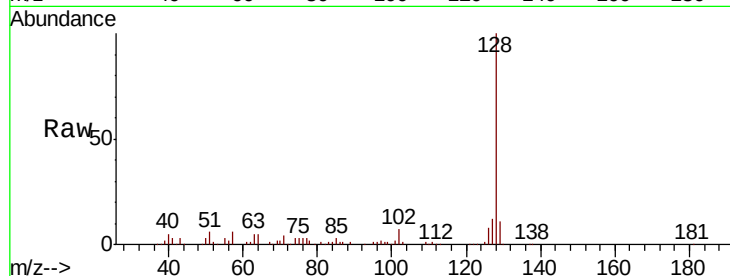
Tot Ion:128 Resp: 200336

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.6

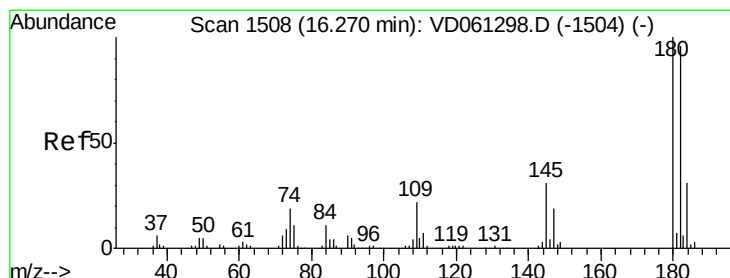
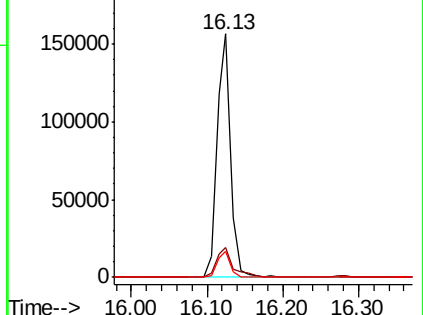
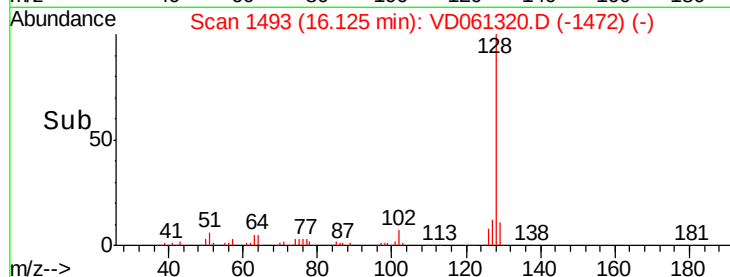
129 10.9 8.6 12.8



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: 54.258 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VD061320.D

Acq: 26 Mar 2019 1:59

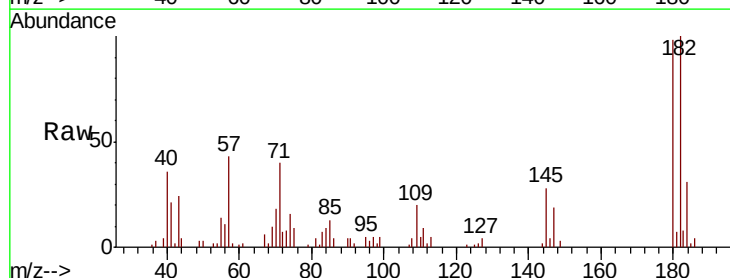
Tgt Ion:180 Resp: 32058

Ion Ratio Lower Upper

180 100

182 101.5 48.0 144.2

145 28.3 15.4 46.4



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

