

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092519\
 Data File : VD063828.D
 Acq On : 25 Sep 2019 17:53
 Operator : VA/SY
 Sample : VSTDIC020
 Misc : 5.00µ/5.00mL/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 26 11:08:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 26 11:05:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.00	168	237233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.88	114	378055	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	357425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	182001	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.35	65	45450	20.35	ug/l	0.00
Spiked Amount			Recovery	=	40.70%	
35) Dibromofluoromethane	7.94	113	49583	20.66	ug/l	0.00
Spiked Amount			Recovery	=	41.32%	
50) Toluene-d8	10.36	98	172965	19.15	ug/l	0.00
Spiked Amount			Recovery	=	38.30%	
62) 4-Bromofluorobenzene	12.64	95	69964	21.58	ug/l	0.00
Spiked Amount			Recovery	=	43.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	34437	21.166	ug/l	97
3) Chloromethane	2.22	50	112327	22.782	ug/l	99
4) Vinyl Chloride	2.36	62	112180	22.294	ug/l	95
5) Bromomethane	2.77	94	59849	20.329	ug/l	99
6) Chloroethane	2.93	64	69255	19.985	ug/l	90
7) Trichlorofluoromethane	3.29	101	146528	21.659	ug/l	89
8) Diethyl Ether	3.73	74	23260	21.086	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	4.11	101	41737	20.797	ug/l	97
10) Methyl Iodide	4.31	142	47881	19.984	ug/l	98
11) Tert butyl alcohol	5.28	59	17118	98.909	ug/l #	85
12) 1,1-Dichloroethene	4.08	96	41981	20.723	ug/l	98
13) Acrolein	3.94	56	20474	97.169	ug/l	88
14) Allyl chloride	4.73	41	67786	21.169	ug/l	94
15) Acrylonitrile	5.46	53	49950	102.500	ug/l	97
16) Acetone	4.20	43	51223	102.155	ug/l #	89
17) Carbon Disulfide	4.42	76	145684	21.274	ug/l	99
18) Methyl Acetate	4.76	43	27004	21.873	ug/l	97
19) Methyl tert-butyl Ether	5.51	73	104660	20.636	ug/l	98
20) Methylene Chloride	4.99	84	61208	20.288	ug/l	97
21) trans-1,2-Dichloroethene	5.49	96	48135	20.414	ug/l	97
22) Diisopropyl ether	6.40	45	137033	20.720	ug/l	97
23) Vinyl Acetate	6.34	43	406607	103.947	ug/l	97
24) 1,1-Dichloroethane	6.29	63	84952	21.143	ug/l	95
25) 2-Butanone	7.25	43	66980	102.178	ug/l	93
26) 2,2-Dichloropropane	7.24	77	77431	20.607	ug/l	95
27) cis-1,2-Dichloroethene	7.23	96	54049	20.428	ug/l	96
28) Bromochloromethane	7.57	49	29630	18.793	ug/l #	95
29) Tetrahydrofuran	7.60	42	41681	106.117	ug/l	94
30) Chloroform	7.73	83	91228	20.904	ug/l	100
31) Cyclohexane	8.00	56	82864	20.660	ug/l #	95
32) 1,1,1-Trichloroethane	7.93	97	84284	21.359	ug/l	93
36) 1,1-Dichloropropene	8.13	75	71319	20.682	ug/l	100
37) Ethyl Acetate	7.33	43	29232	20.297	ug/l	97
38) Carbon Tetrachloride	8.12	117	71011	19.785	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.37	83	87399	20.354	ug/l	98
40) Benzene	8.37	78	194144	20.443	ug/l	100
41) Methacrylonitrile	7.55	41	15401	18.106	ug/l	95
42) 1,2-Dichloroethane	8.44	62	57130	20.572	ug/l	99
43) Isopropyl Acetate	8.48	43	60521	20.962	ug/l	97
44) Trichloroethene	9.13	130	55859	20.310	ug/l	84
45) 1,2-Dichloropropane	9.40	63	48110	20.507	ug/l	92
46) Dibromomethane	9.49	93	26864	20.288	ug/l	97
47) Bromodichloromethane	9.68	83	70169	20.557	ug/l	97
48) Methyl methacrylate	9.47	41	28301	21.551	ug/l	97
49) 1,4-Dioxane	9.48	88	7568	409.704	ug/l	97
51) 4-Methyl-2-Pentanone	10.25	43	150026	103.144	ug/l	99
52) Toluene	10.42	92	128290	19.923	ug/l	95
53) t-1,3-Dichloropropene	10.64	75	68838	20.346	ug/l	100
54) cis-1,3-Dichloropropene	10.11	75	80188	20.879	ug/l	99
55) 1,1,2-Trichloroethane	10.82	97	38888	20.785	ug/l #	92
56) Ethyl methacrylate	10.67	69	47867	20.129	ug/l	94
57) 1,3-Dichloropropane	10.96	76	64921	20.422	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.96	63	113573	106.856	ug/l	99
59) 2-Hexanone	11.00	43	107740	103.815	ug/l	98
60) Dibromochloromethane	11.16	129	49786	20.164	ug/l	100
61) 1,2-Dibromoethane	11.26	107	37501	20.050	ug/l	100
64) Tetrachloroethene	10.89	164	49193	20.432	ug/l	96
65) Chlorobenzene	11.68	112	147421	20.504	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.76	131	53972	20.426	ug/l	98
67) Ethyl Benzene	11.76	91	266822	20.545	ug/l	96
68) m/p-Xylenes	11.87	106	204125	40.929	ug/l	99
69) o-Xylene	12.19	106	97820	20.781	ug/l	97
70) Styrene	12.21	104	164192	20.610	ug/l	99
71) Bromoform	12.37	173	29349	19.995	ug/l #	99
73) Isopropylbenzene	12.49	105	259391	20.866	ug/l	99
74) N-amyl acetate	12.30	43	59142	21.733	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.74	83	45056	21.744	ug/l	98
76) 1,2,3-Trichloropropane	12.80	75	59043	51.153	ug/l #	100
77) Bromobenzene	12.77	156	61451	20.569	ug/l	97
78) n-propylbenzene	12.83	91	310914	21.259	ug/l	97
79) 2-Chlorotoluene	12.92	91	166536	21.111	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	216315	20.874	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	15063	21.799	ug/l	95
82) 4-Chlorotoluene	13.02	91	179584	21.341	ug/l	99
83) tert-Butylbenzene	13.24	119	187947	20.756	ug/l	96
84) 1,2,4-Trimethylbenzene	13.28	105	215978	20.529	ug/l	100
85) sec-Butylbenzene	13.41	105	260321	20.661	ug/l	100
86) p-Isopropyltoluene	13.53	119	243711	20.595	ug/l	98
87) 1,3-Dichlorobenzene	13.53	146	120825	20.598	ug/l	99
88) 1,4-Dichlorobenzene	13.61	146	122063	20.923	ug/l	98
89) n-Butylbenzene	13.86	91	236829	21.028	ug/l	98
90) Hexachloroethane	14.13	117	45141	20.595	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	107565	21.378	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	7694	22.007	ug/l	87

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QLast Update : Thu Sep 26 11:05:05 2019
Response via : Initial Calibration

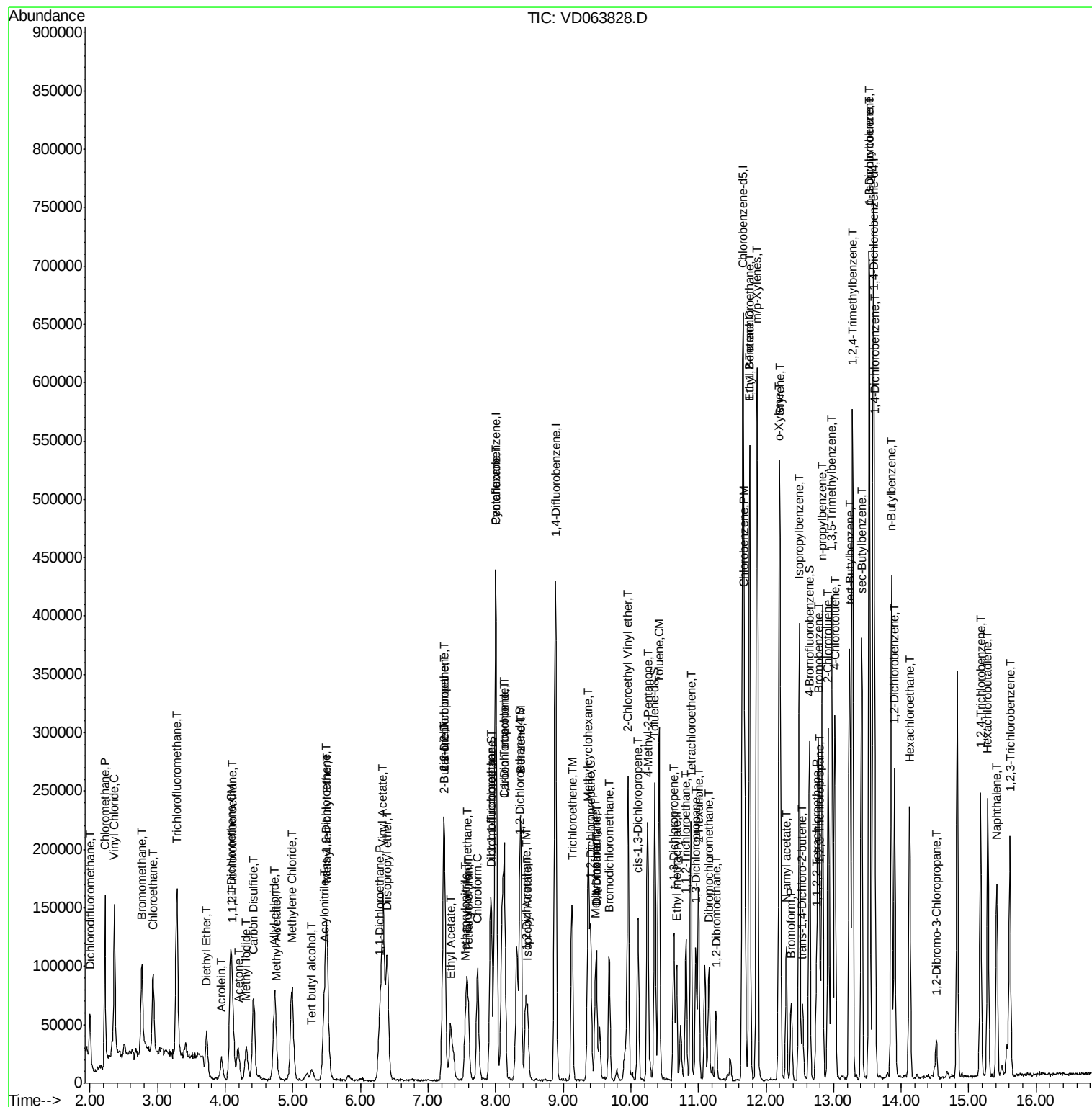
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	74356	19.460	ug/l	90
94) Hexachlorobutadiene	15.28	225	43641	20.158	ug/l	100
95) Naphthalene	15.41	128	142574	20.778	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	68113	20.107	ug/l	98

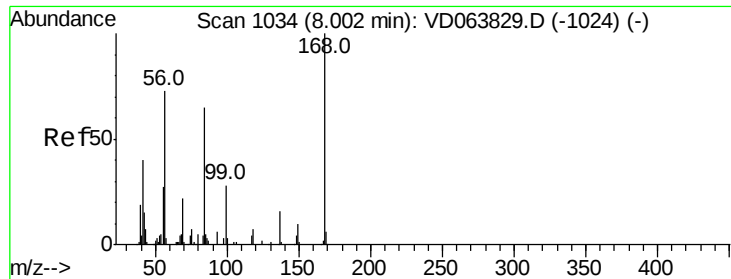
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.00 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

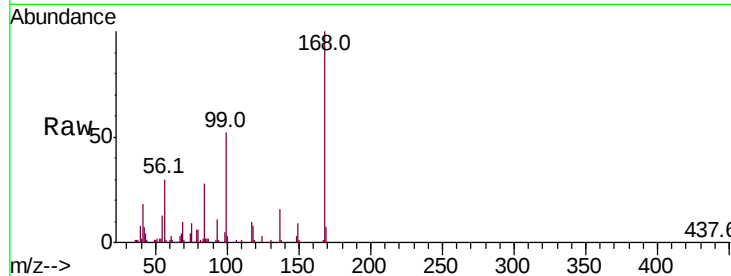
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 237233

Ion Ratio Lower Upper

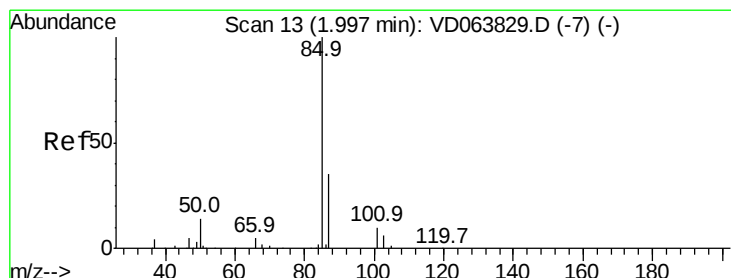
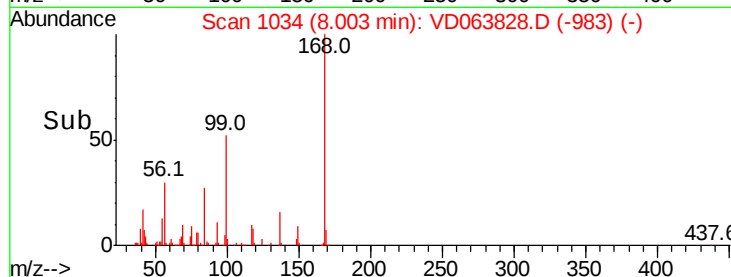
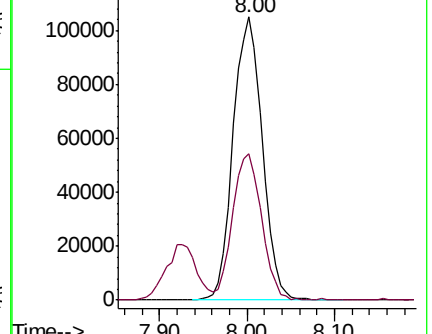
168 100

99 51.5 41.2 61.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 21.166 ug/l

RT: 2.00 min Scan# 13

Delta R.T. 0.00 min

Lab File: VD063828.D

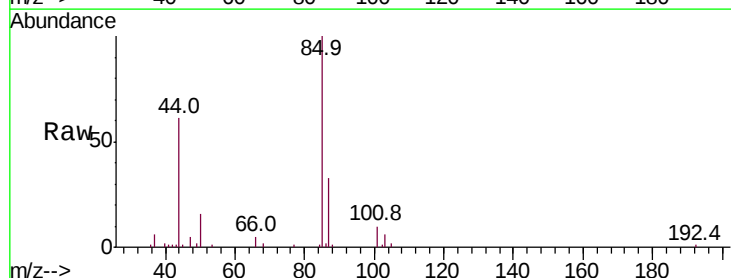
Acq: 25 Sep 2019 17:53

Tgt Ion: 85 Resp: 34437

Ion Ratio Lower Upper

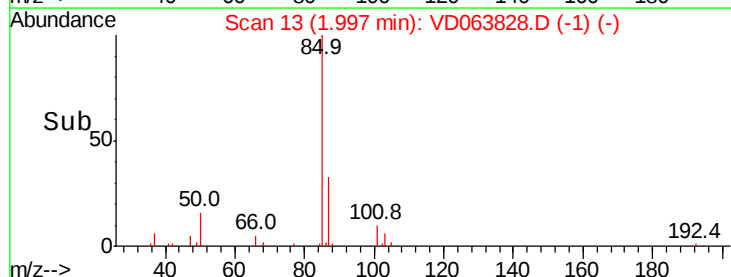
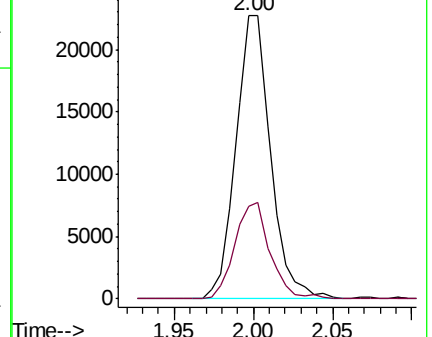
85 100

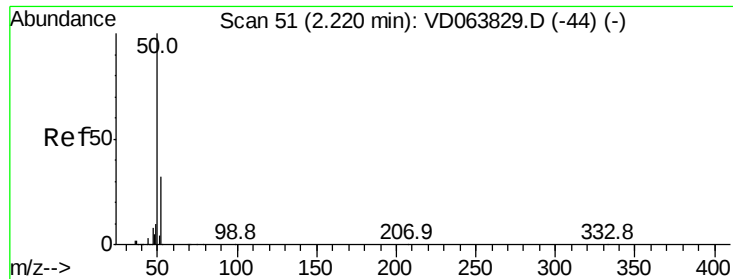
87 32.8 17.3 51.7



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.782 ug/l

RT: 2.22 min Scan# 51

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

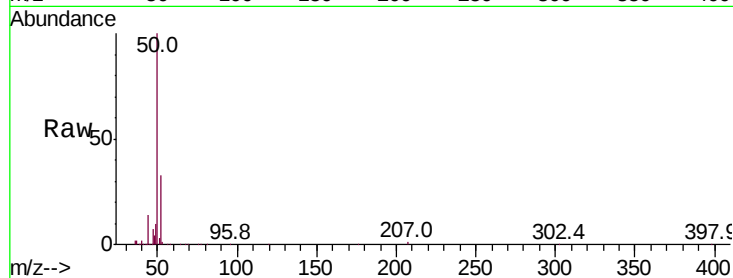
ClientSampleId :

Tot Ion: 50 Resp: 112327

Ion Ratio Lower Upper

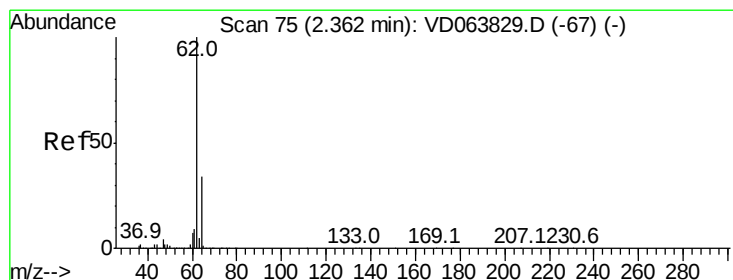
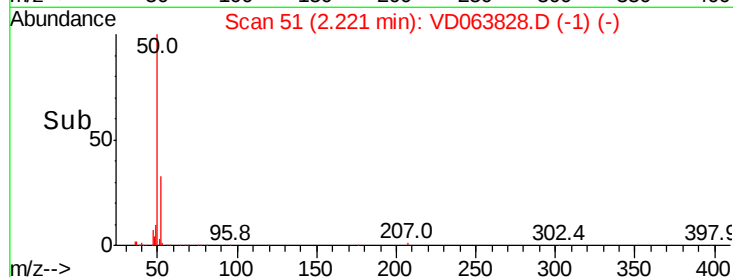
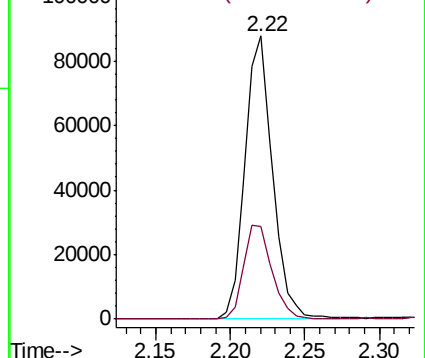
50 100

52 32.5 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 22.294 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VD063828.D

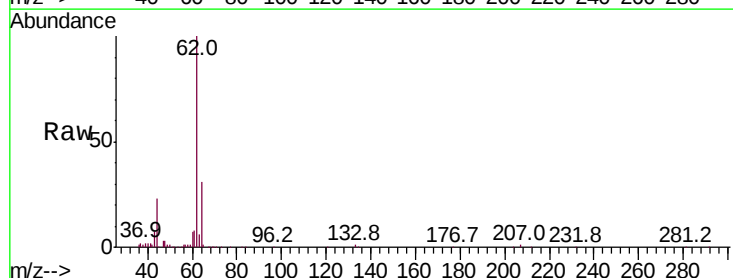
Acq: 25 Sep 2019 17:53

Tgt Ion: 62 Resp: 112180

Ion Ratio Lower Upper

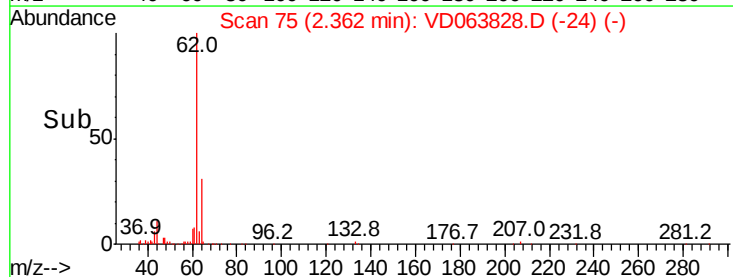
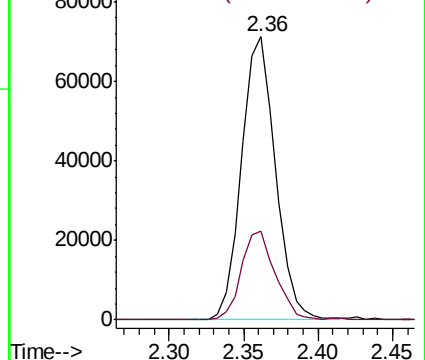
62 100

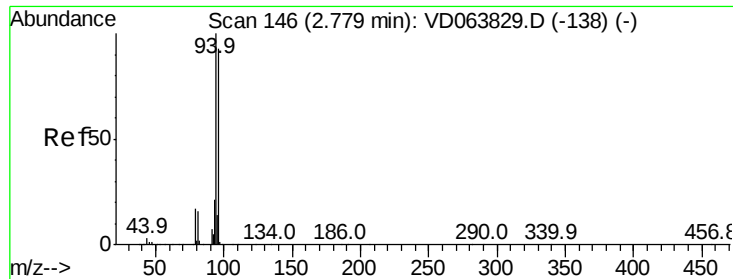
64 31.2 27.1 40.7



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.329 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

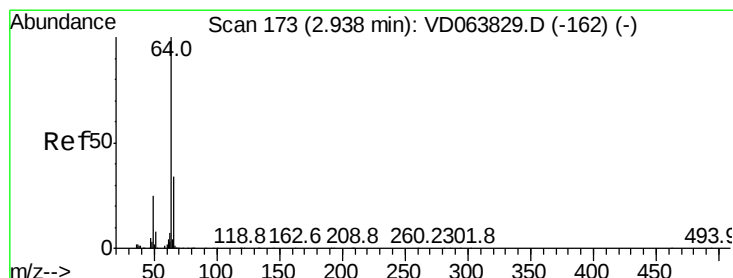
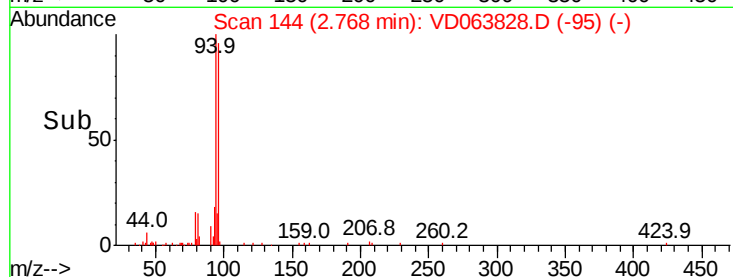
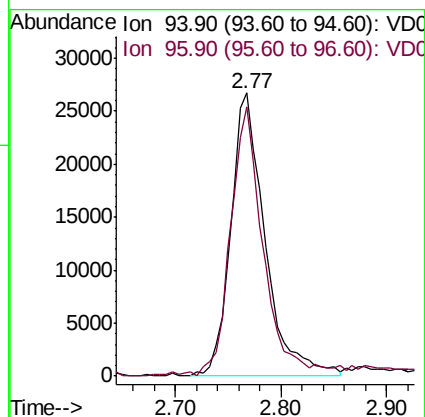
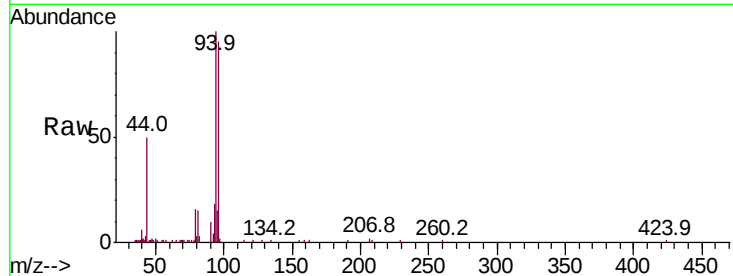
ClientSampleId :

Tot Ion: 94 Resp: 59849

Ion Ratio Lower Upper

94 100

96 93.5 74.2 111.2



#6

Chloroethane

Concen: 19.985 ug/l

RT: 2.93 min Scan# 172

Delta R.T. -0.01 min

Lab File: VD063828.D

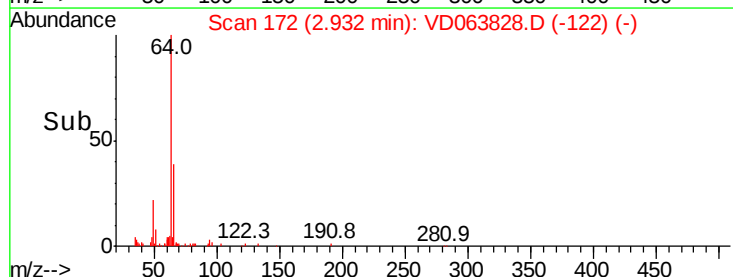
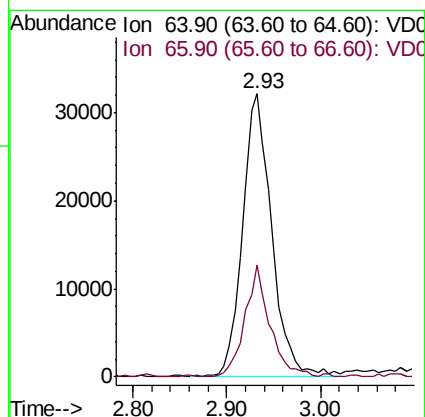
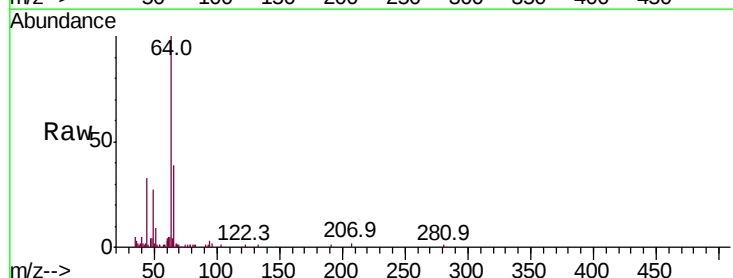
Acq: 25 Sep 2019 17:53

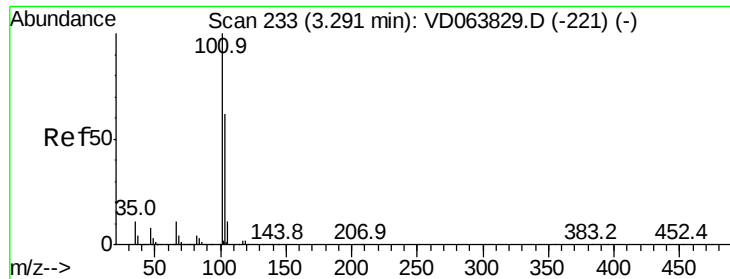
Tgt Ion: 64 Resp: 69255

Ion Ratio Lower Upper

64 100

66 39.4 26.9 40.3



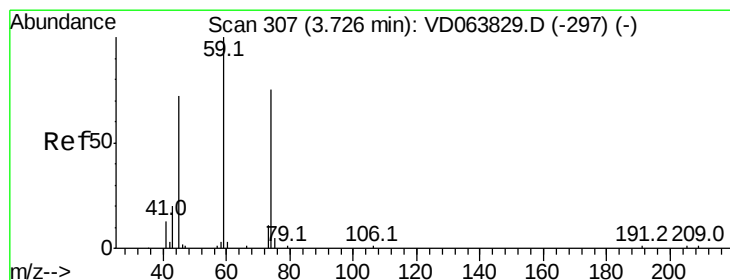
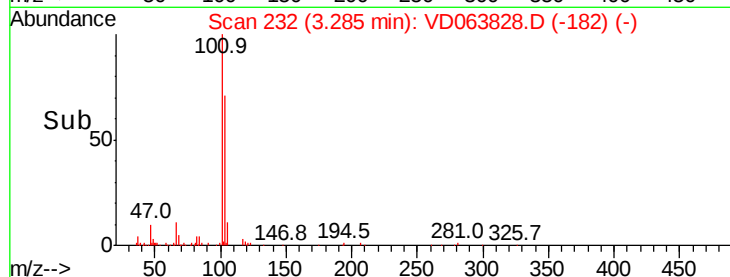
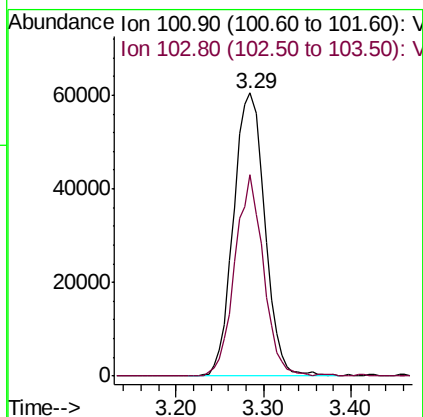
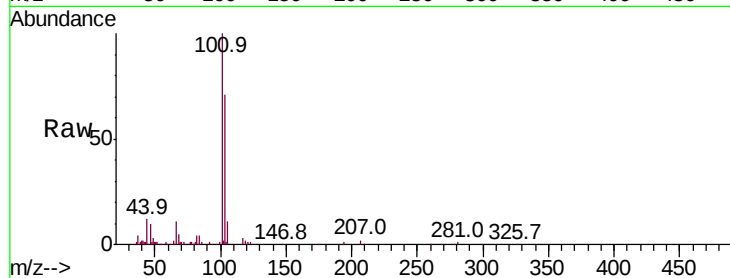


#7

Trichlorofluoromethane
 Concen: 21.659 ug/l
 RT: 3.29 min Scan# 232
 Delta R.T. -0.01 min
 Lab File: VD063828.D
 Acq: 25 Sep 2019 17:53

Instrument :
 MSVOA_D
 ClientSampleId :

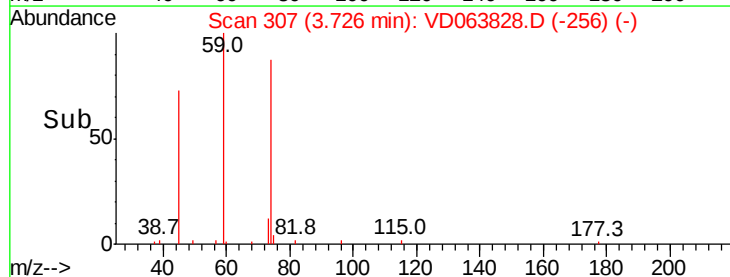
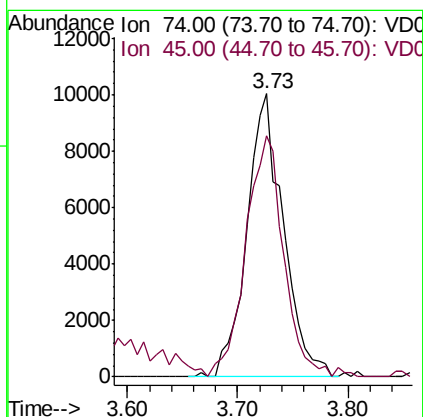
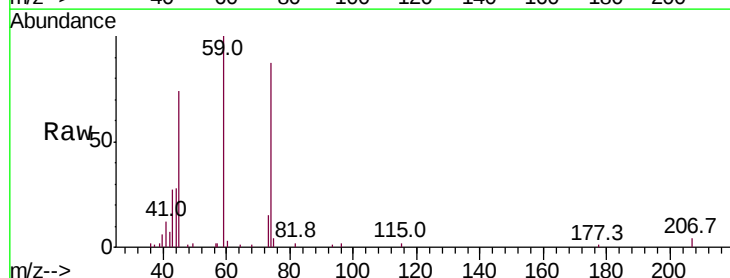
Tot Ion:101 Resp: 146528
 Ion Ratio Lower Upper
 101 100
 103 71.1 49.8 74.8

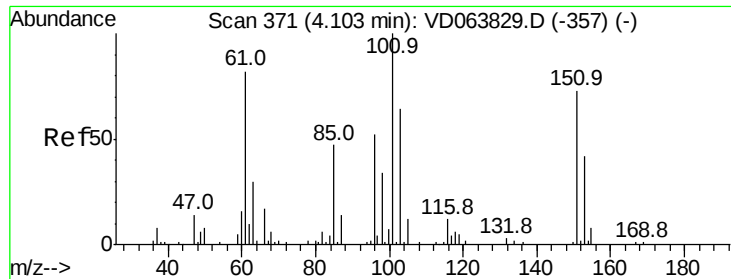


#8

Diethyl Ether
 Concen: 21.086 ug/l
 RT: 3.73 min Scan# 307
 Delta R.T. 0.00 min
 Lab File: VD063828.D
 Acq: 25 Sep 2019 17:53

Tgt Ion: 74 Resp: 23260
 Ion Ratio Lower Upper
 74 100
 45 88.1 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.797 ug/l

RT: 4.11 min Scan# 372

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampled :

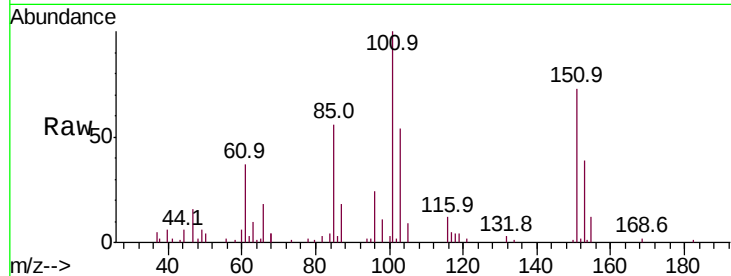
Tot Ion:101 Resp: 41737

Ion Ratio Lower Upper

101 100

85 50.2 37.8 56.6

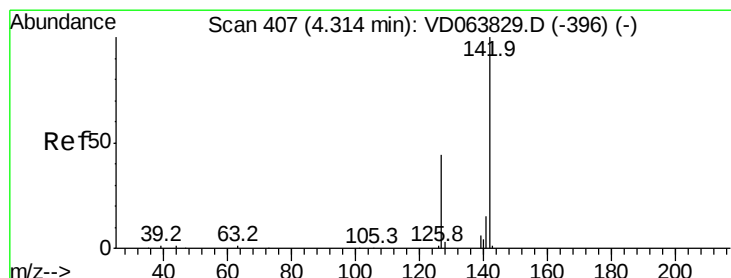
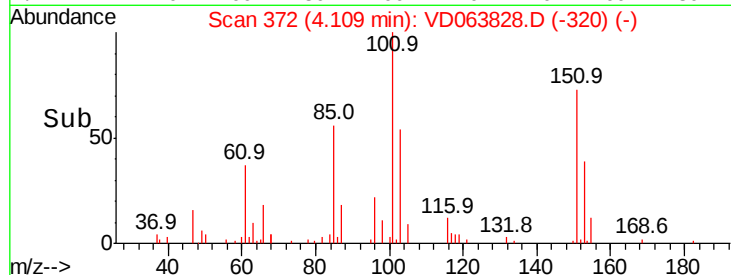
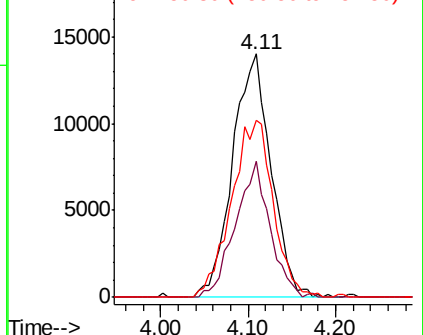
151 78.9 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.984 ug/l

RT: 4.31 min Scan# 406

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

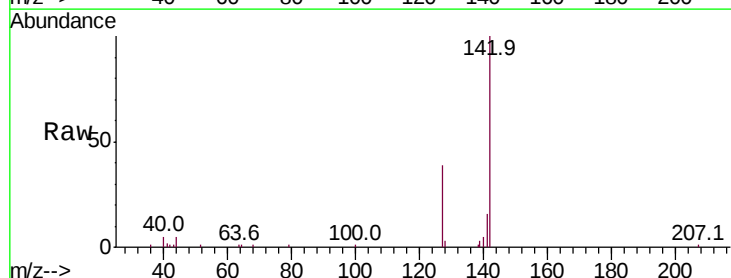
Tgt Ion:142 Resp: 47881

Ion Ratio Lower Upper

142 100

127 43.0 35.8 53.6

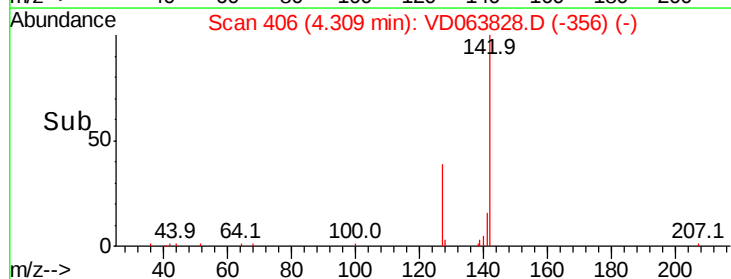
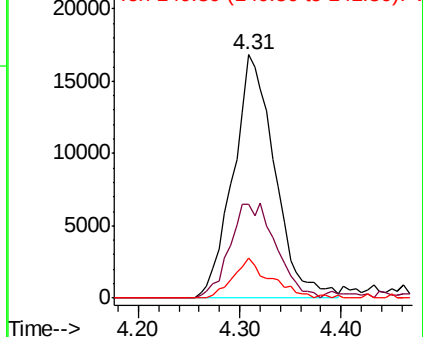
141 14.6 11.9 17.9

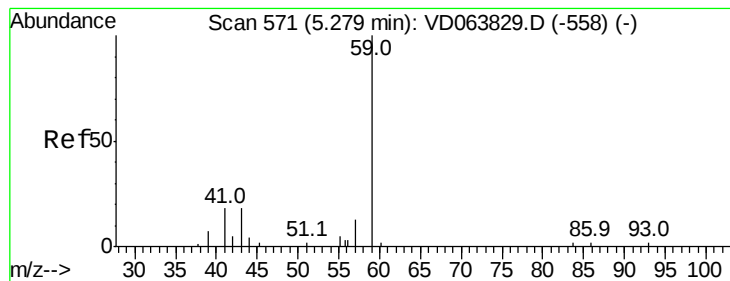


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 98.909 ug/l

RT: 5.28 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

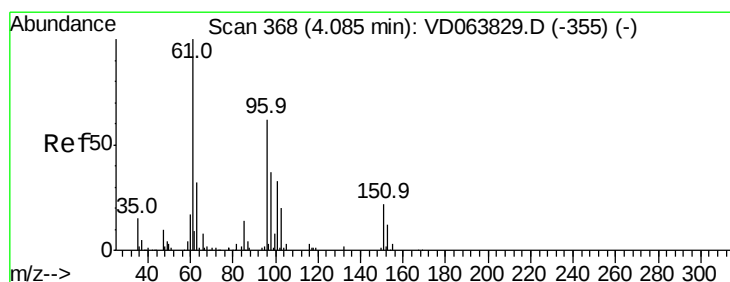
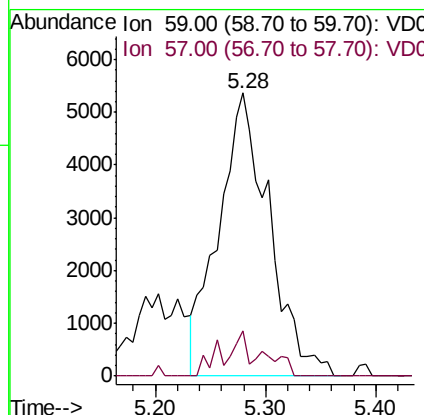
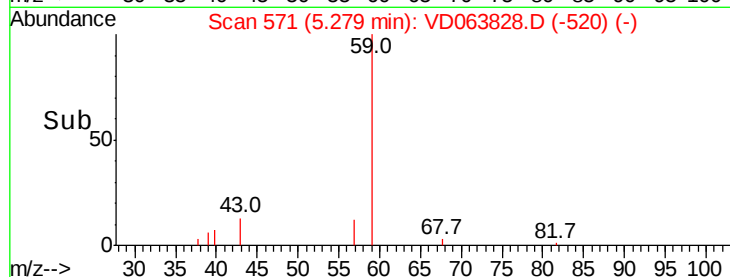
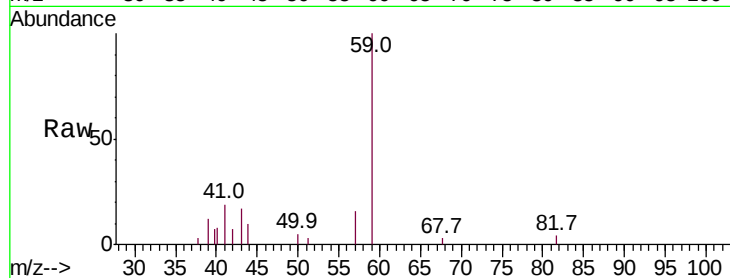
ClientSampleId :

Tot Ion: 59 Resp: 17118

Ion Ratio Lower Upper

59 100

57 4.9 8.3 12.5#



#12

1,1-Dichloroethene

Concen: 20.723 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

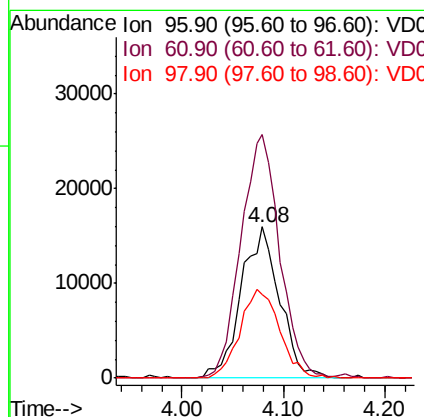
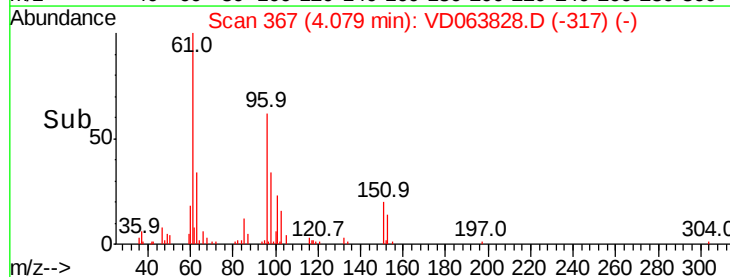
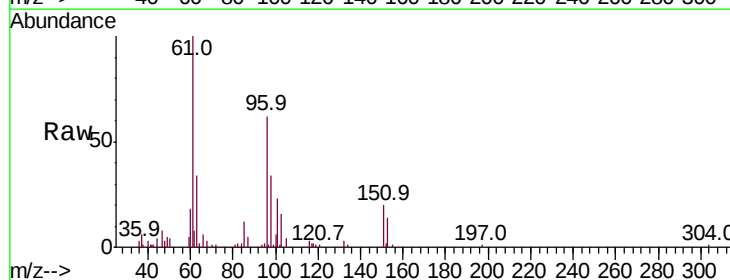
Tgt Ion: 96 Resp: 41981

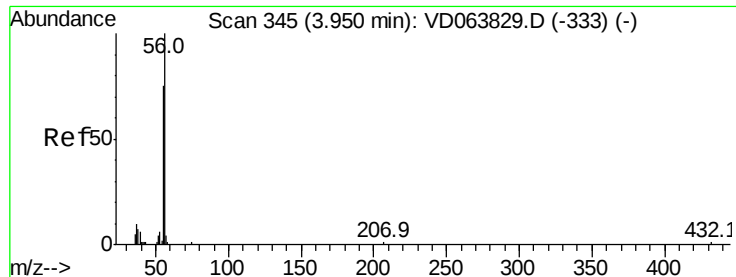
Ion Ratio Lower Upper

96 100

61 161.4 129.0 193.4

98 55.6 47.8 71.6





#13

Acrolein

Concen: 97.169 ug/l

RT: 3.94 min Scan# 344

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

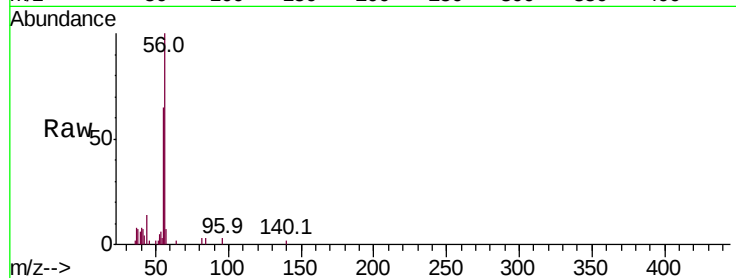
ClientSampleId :

Tot Ion: 56 Resp: 20474

Ion Ratio Lower Upper

56 100

55 78.7 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.94

10000

8000

6000

4000

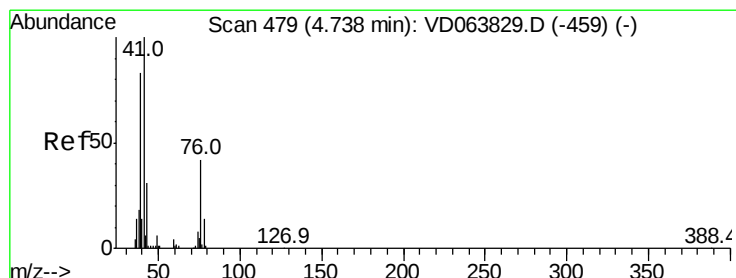
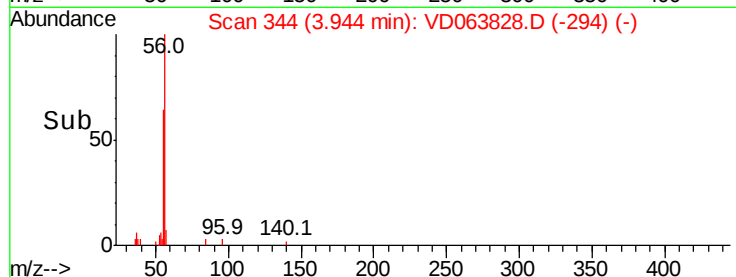
2000

0

Time-->

3.90

4.00



#14

Allyl chloride

Concen: 21.169 ug/l

RT: 4.73 min Scan# 478

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

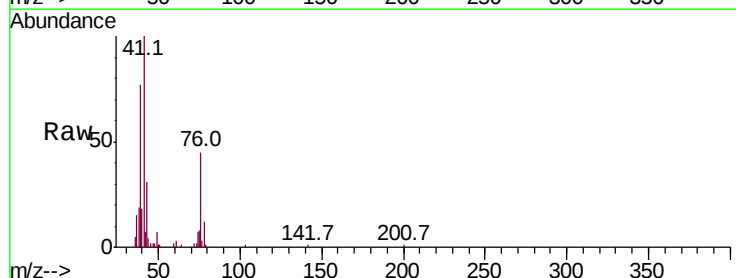
Tgt Ion: 41 Resp: 67786

Ion Ratio Lower Upper

41 100

39 75.2 63.7 95.5

76 37.5 33.5 50.3



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

4.73

25000

20000

15000

10000

5000

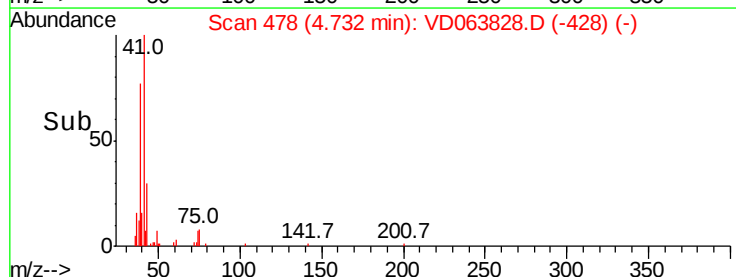
0

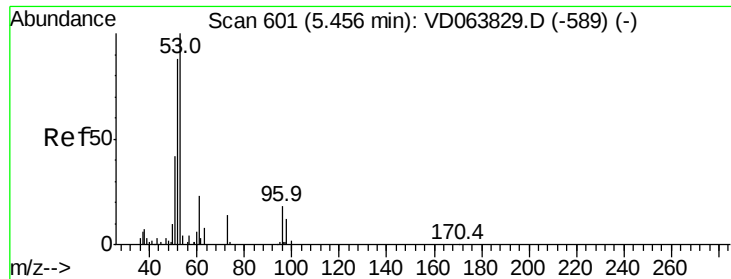
Time-->

4.60

4.70

4.80





#15

Acrylonitrile

Concen: 102.500 ug/l

RT: 5.46 min Scan# 602

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

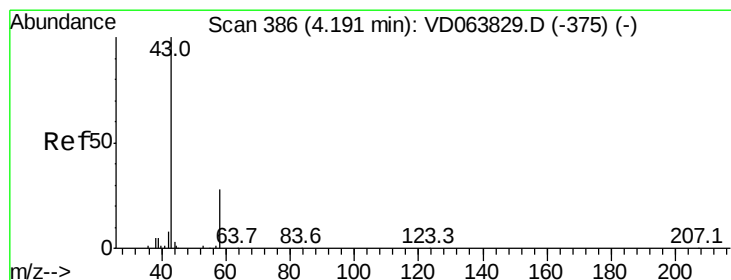
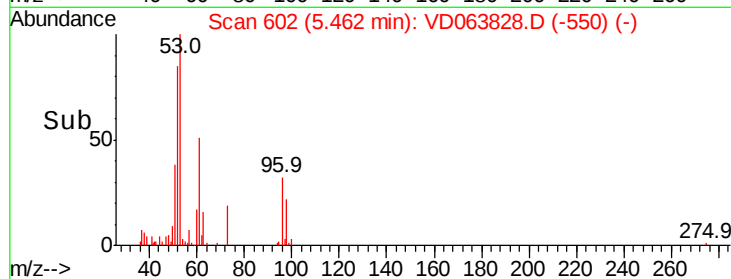
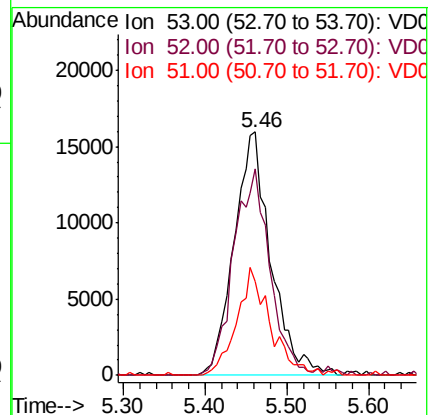
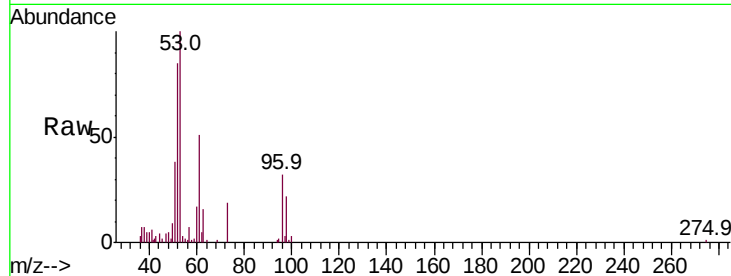
Tot Ion: 53 Resp: 49950

Ion Ratio Lower Upper

53 100

52 83.3 68.7 103.1

51 40.0 30.7 46.1



#16

Acetone

Concen: 102.155 ug/l

RT: 4.20 min Scan# 387

Delta R.T. 0.01 min

Lab File: VD063828.D

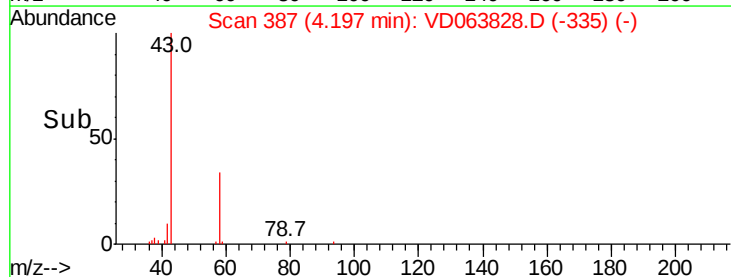
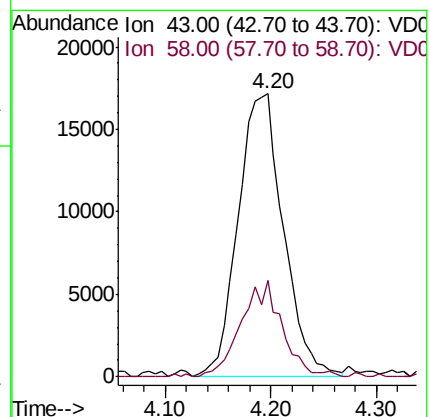
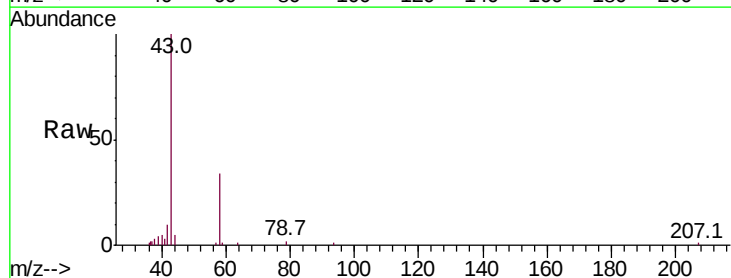
Acq: 25 Sep 2019 17:53

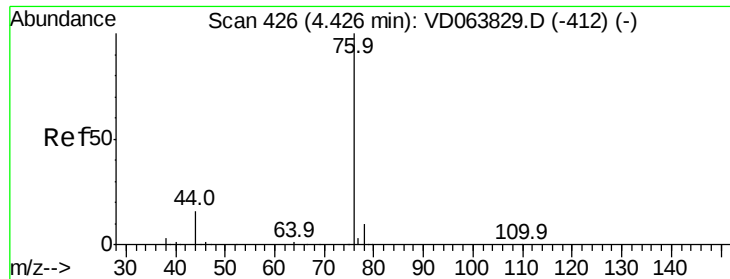
Tgt Ion: 43 Resp: 51223

Ion Ratio Lower Upper

43 100

58 34.2 22.6 34.0#

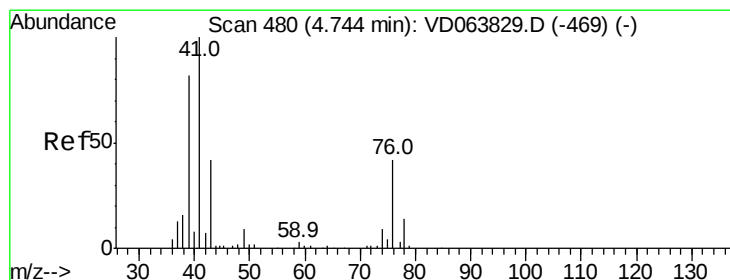
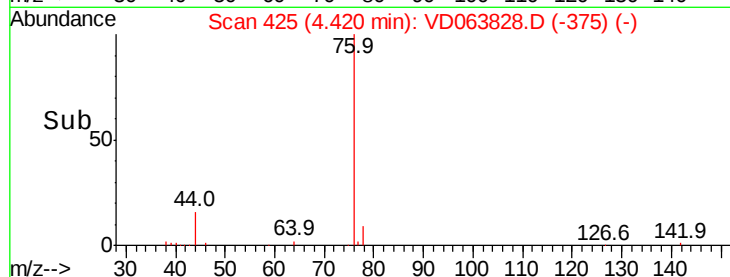
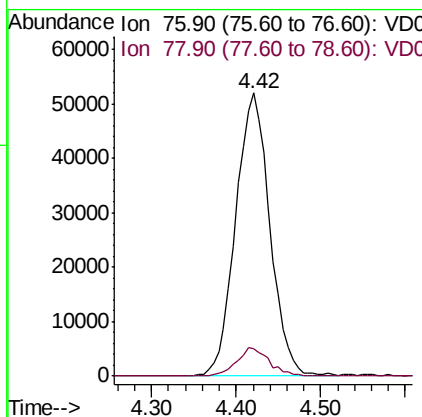
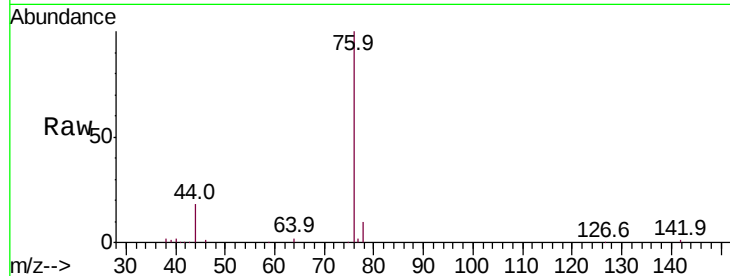




#17
Carbon Disulfide
Concen: 21.274 ug/l
RT: 4.42 min Scan# 425
Delta R.T. -0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

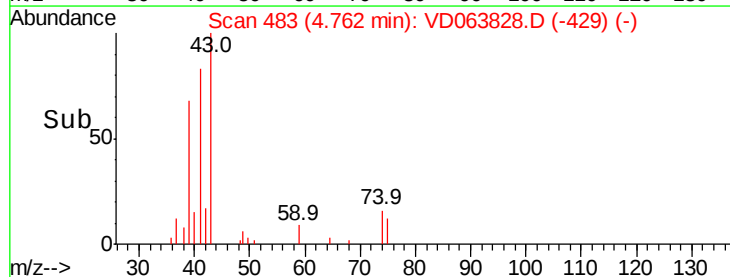
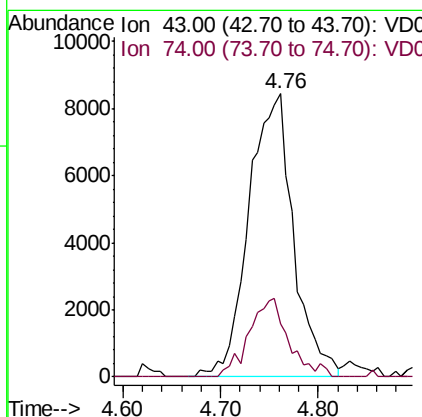
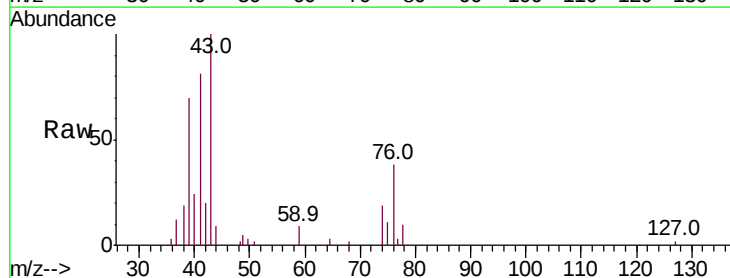
Instrument :
MSVOA_D
ClientSampleId :

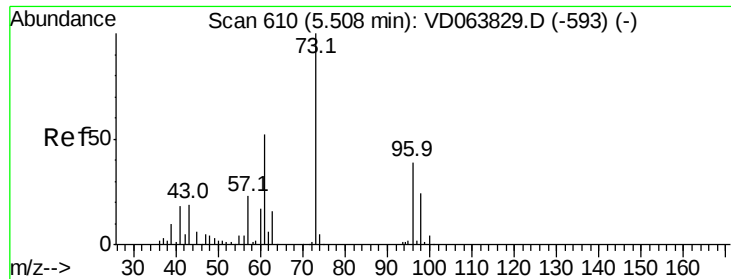
Tot Ion: 76 Resp: 145684
Ion Ratio Lower Upper
76 100
78 9.5 7.9 11.9



#18
Methyl Acetate
Concen: 21.873 ug/l
RT: 4.76 min Scan# 483
Delta R.T. 0.02 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 43 Resp: 27004
Ion Ratio Lower Upper
43 100
74 24.6 18.6 28.0

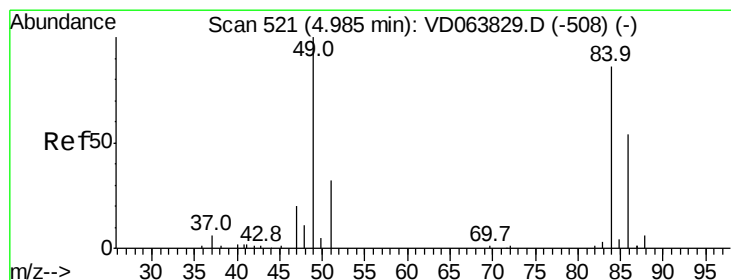
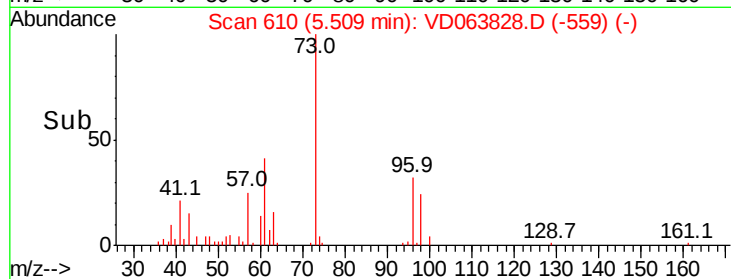
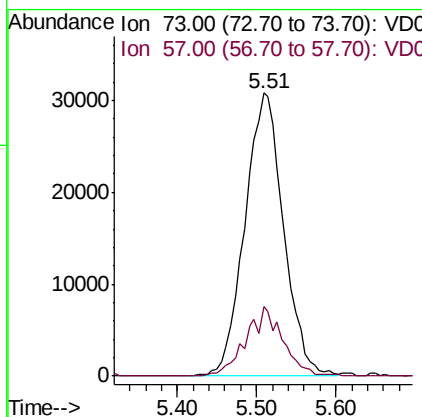
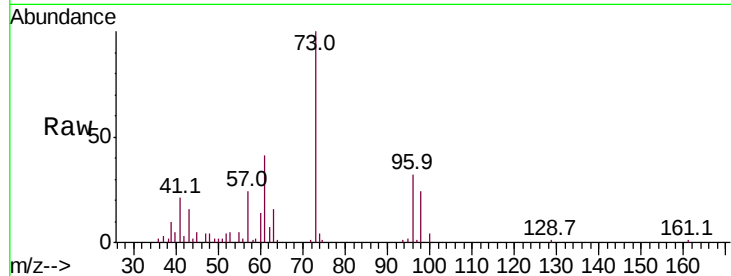




#19
Methvl tert-butvl Ether
Concen: 20.636 ug/l
RT: 5.51 min Scan# 610
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

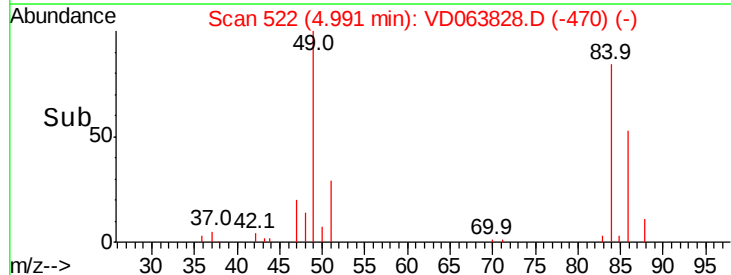
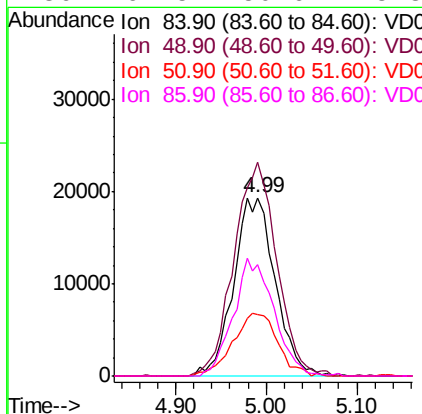
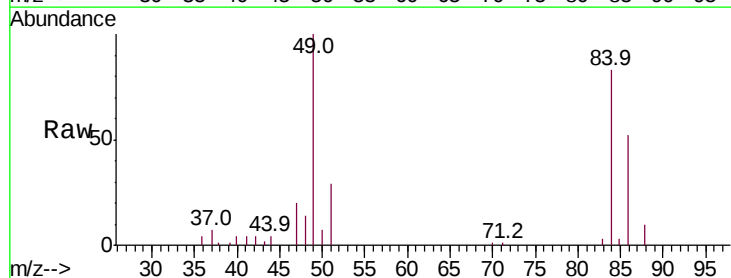
Instrument :
MSVOA_D
ClientSampleId :

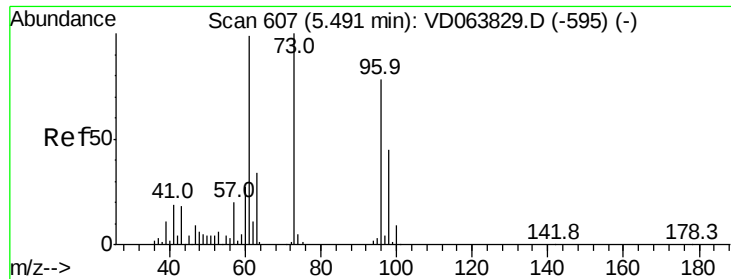
Tot Ion: 73 Resp: 104660
Ion Ratio Lower Upper
73 100
57 24.4 18.7 28.1



#20
Methylene Chloride
Concen: 20.288 ug/l
RT: 4.99 min Scan# 522
Delta R.T. 0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 84 Resp: 61208
Ion Ratio Lower Upper
84 100
49 119.9 93.6 140.4
51 34.4 29.8 44.6
86 62.5 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 20.414 ug/l

RT: 5.49 min Scan# 606

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampled :

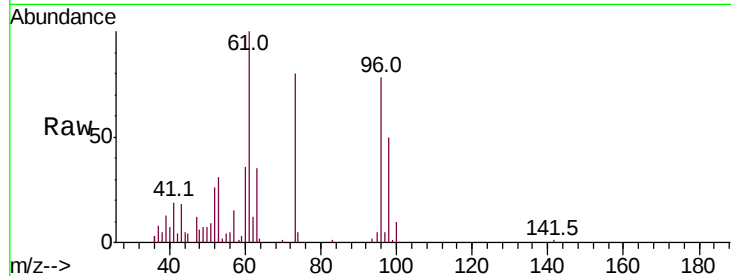
Tot Ion: 96 Resp: 48135

Ion Ratio Lower Upper

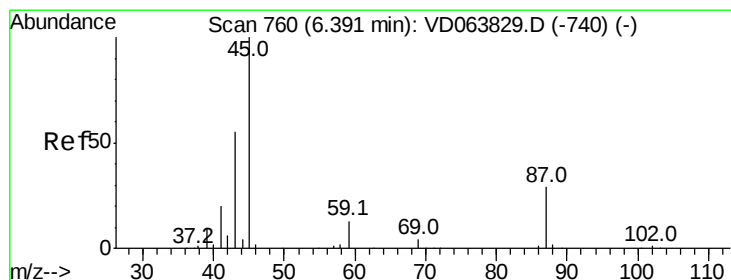
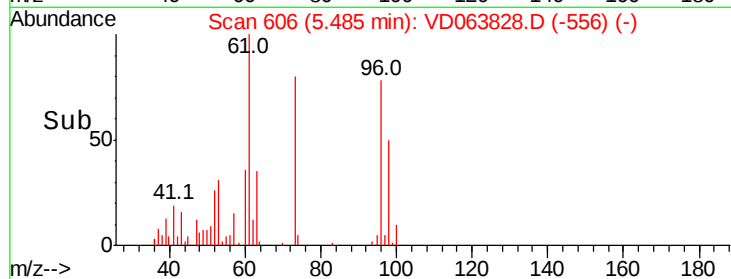
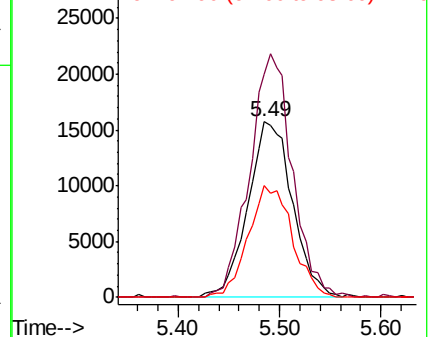
96 100

61 127.4 101.3 151.9

98 63.9 45.4 68.2



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 20.720 ug/l

RT: 6.40 min Scan# 761

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Tgt Ion: 45 Resp: 137033

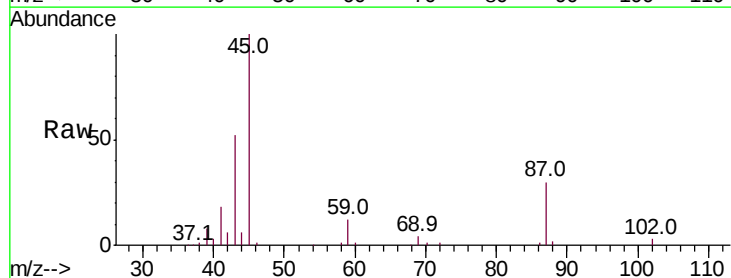
Ion Ratio Lower Upper

45 100

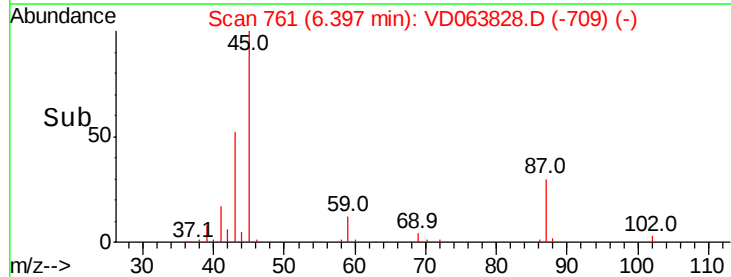
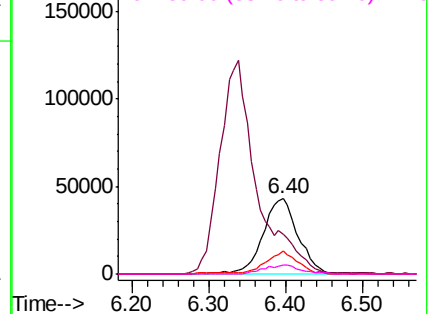
43 51.0 44.2 66.2

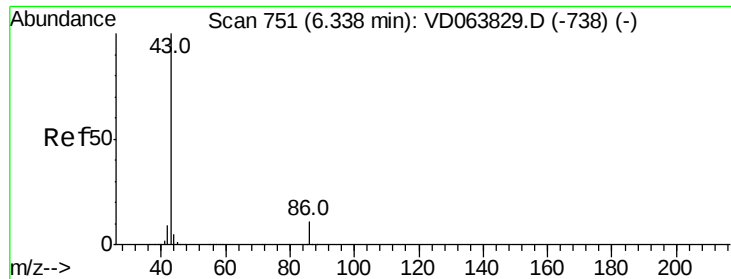
87 29.7 23.9 35.9

59 12.4 10.0 15.0



Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 103.947 ug/l

RT: 6.34 min Scan# 751

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

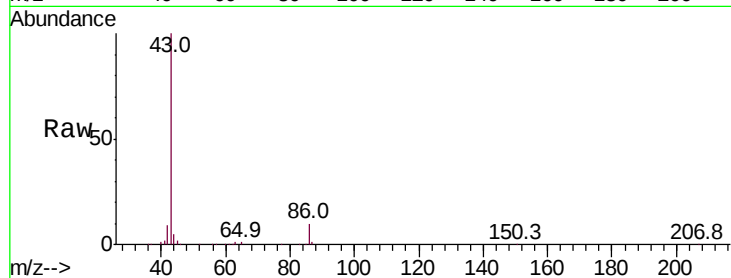
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 406607

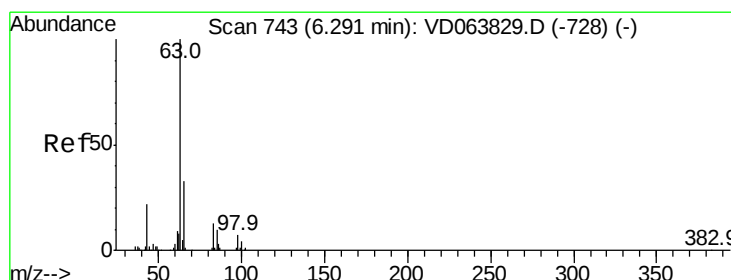
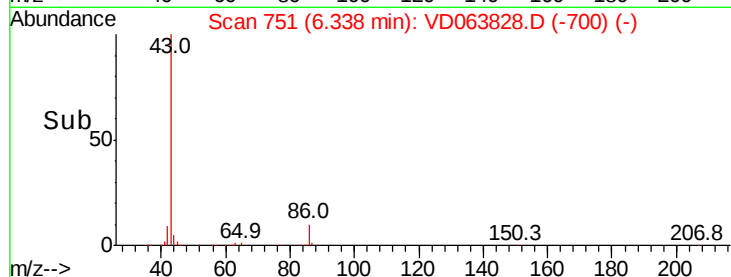
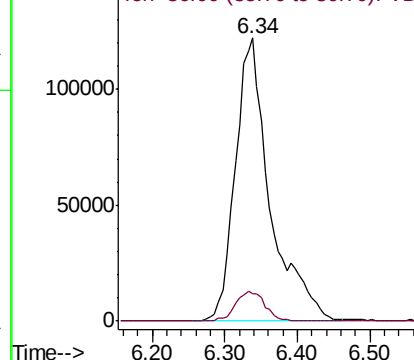
Ion Ratio Lower Upper

43 100

86 9.9 8.8 13.2



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.143 ug/l

RT: 6.29 min Scan# 742

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

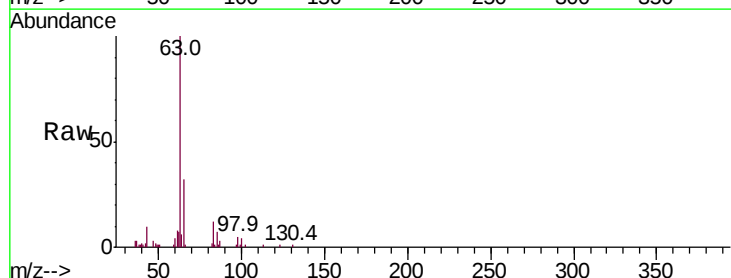
Tgt Ion: 63 Resp: 84952

Ion Ratio Lower Upper

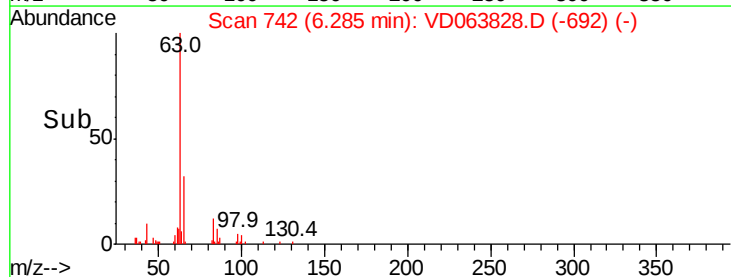
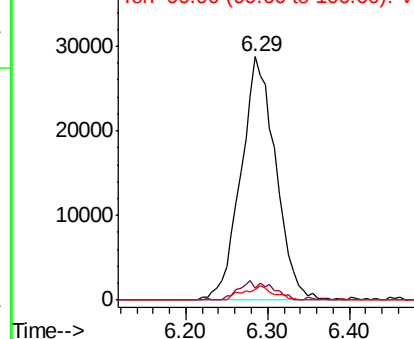
63 100

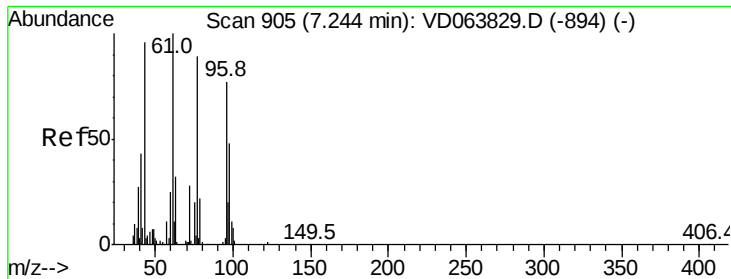
98 4.8 3.5 10.5

100 4.5 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VDC
Ion 97.90 (97.60 to 98.60): VDC
Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 102.178 ug/l

RT: 7.25 min Scan# 906

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

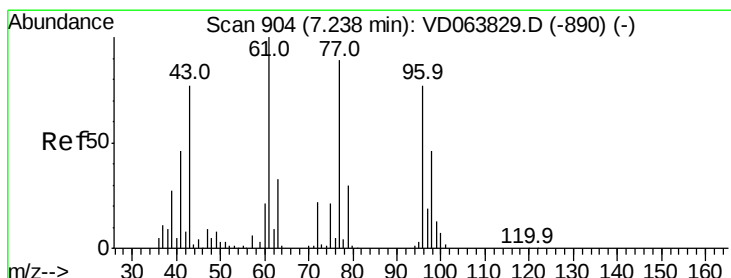
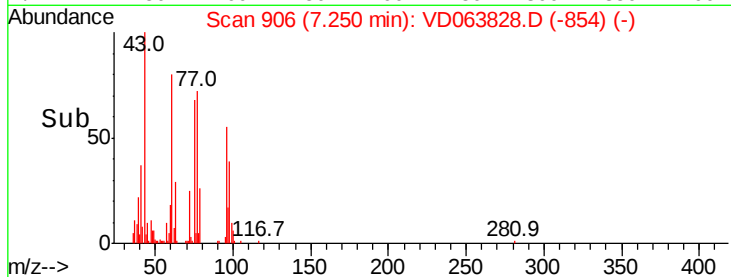
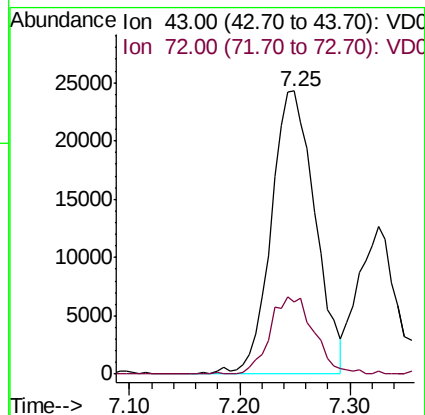
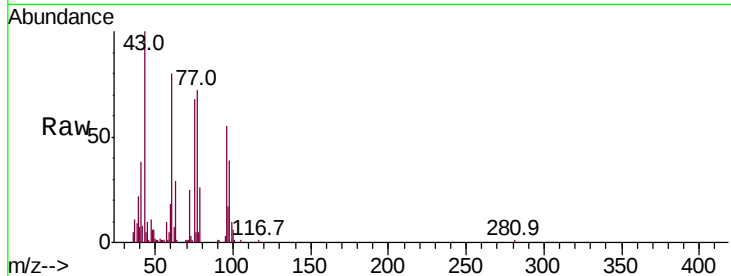
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 66980

Ion Ratio Lower Upper

43 100

72 25.4 23.5 35.3



#26

2,2-Dichloropropane

Concen: 20.607 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.00 min

Lab File: VD063828.D

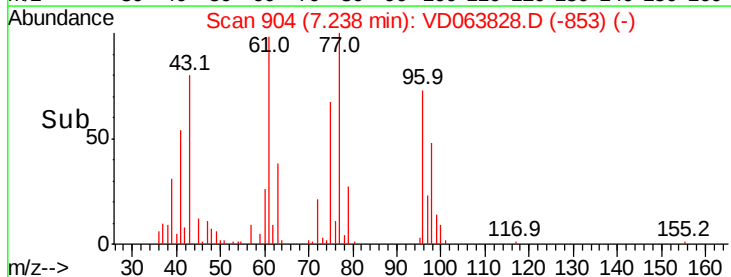
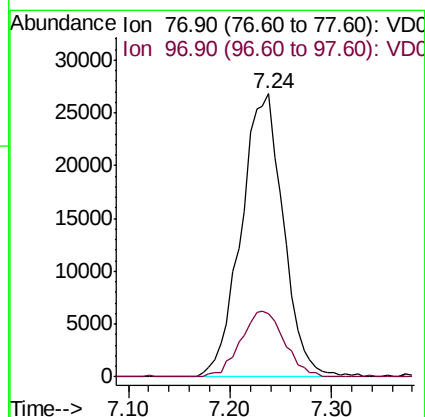
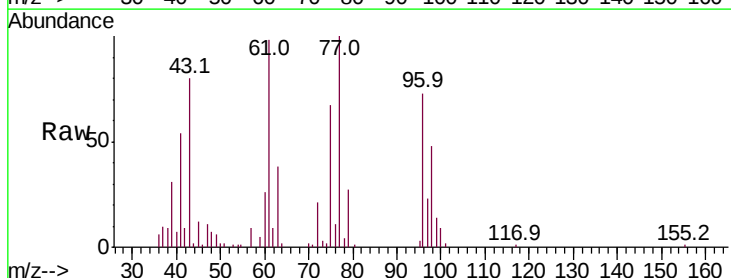
Acq: 25 Sep 2019 17:53

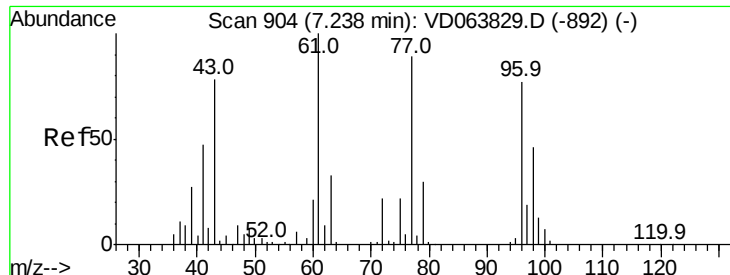
Tgt Ion: 77 Resp: 77431

Ion Ratio Lower Upper

77 100

97 24.1 10.9 32.7



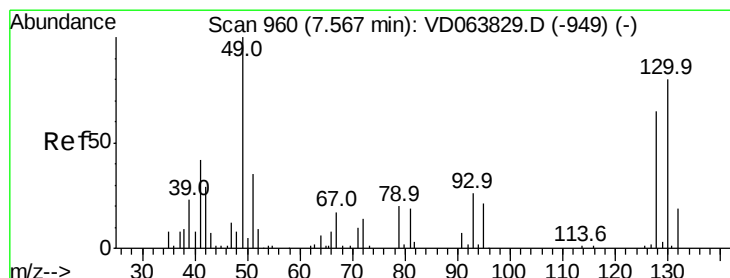
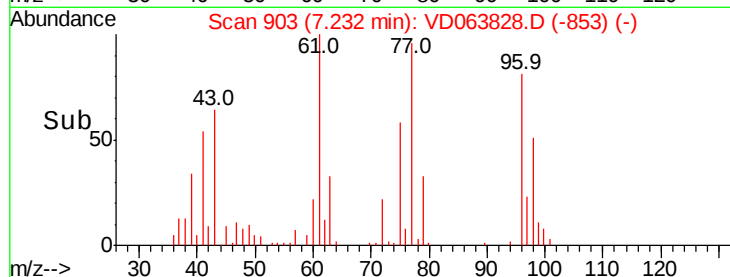
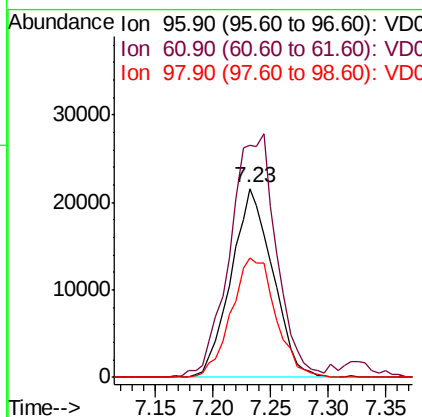
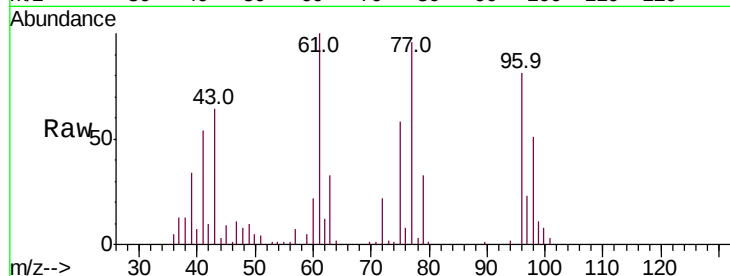


#27

cis-1,2-Dichloroethene
Concen: 20.428 ug/l
RT: 7.23 min Scan# 903
Delta R.T. -0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Instrument :
MSVOA_D
ClientSampleId :

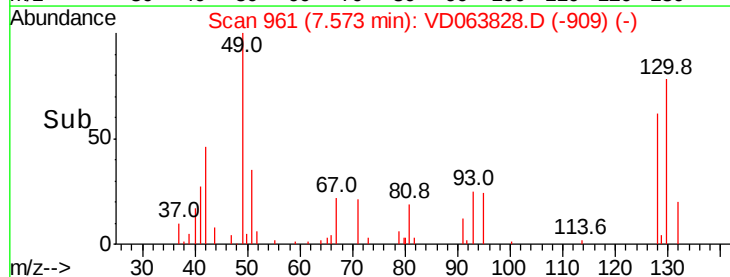
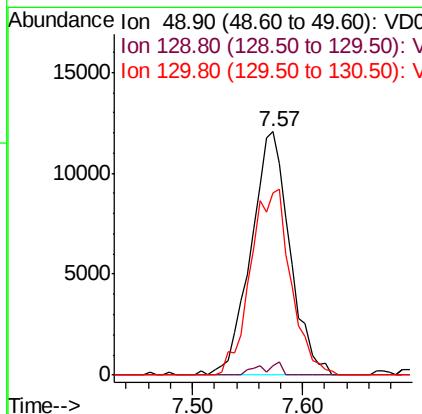
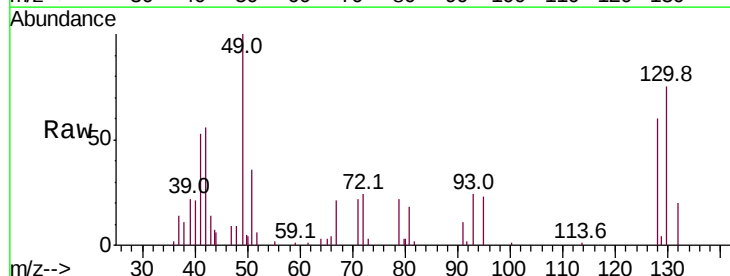
Tot Ion: 96 Resp: 54049
Ion Ratio Lower Upper
96 100
61 143.2 0.0 275.6
98 67.5 0.0 130.2

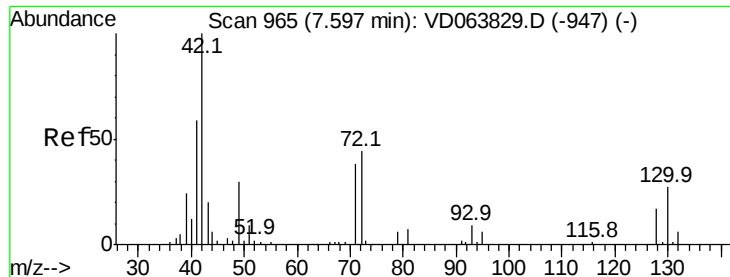


#28

Bromochloromethane
Concen: 18.793 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 49 Resp: 29630
Ion Ratio Lower Upper
49 100
129 2.7 0.0 2.6#
130 79.2 67.0 100.4

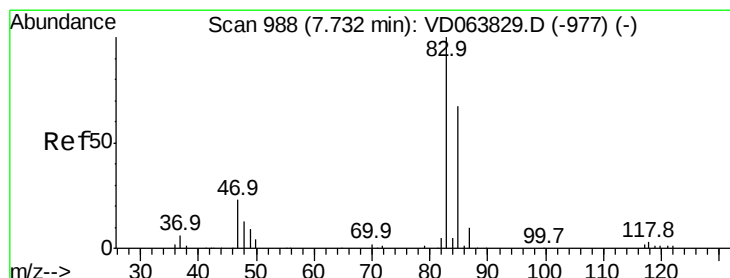
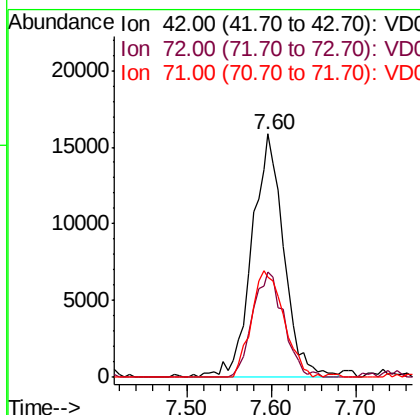
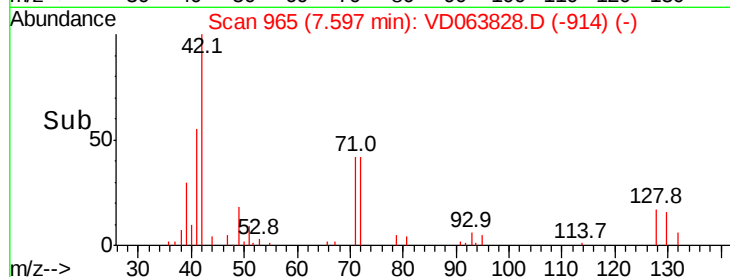
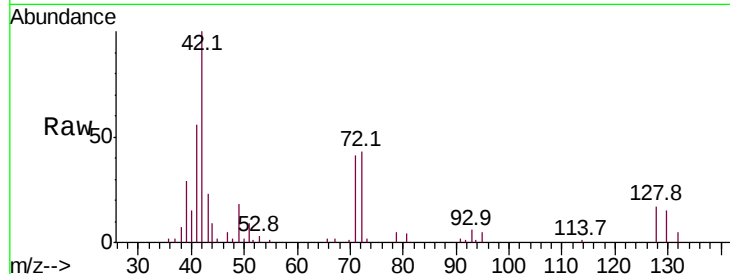




#29
Tetrahydrofuran
Concen: 106.117 ug/l
RT: 7.60 min Scan# 965
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

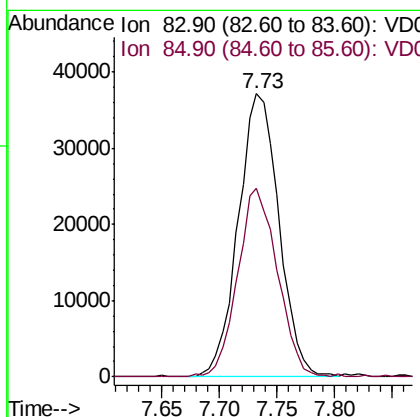
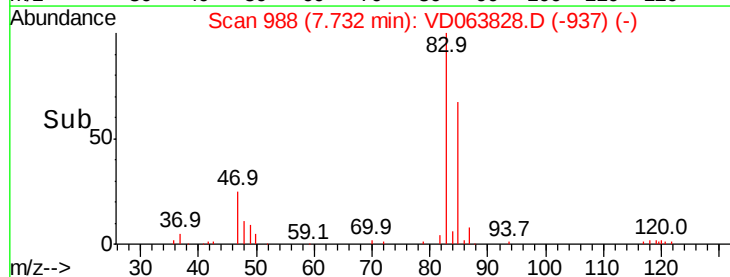
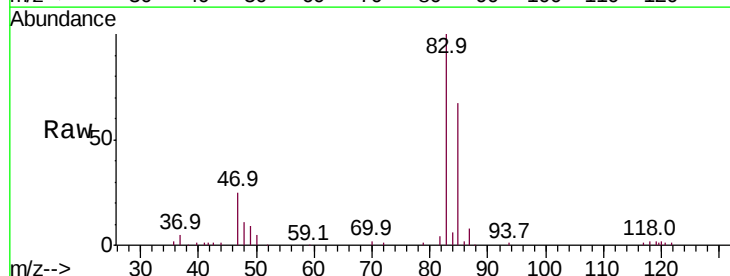
Instrument :
MSVOA_D
ClientSampleId :

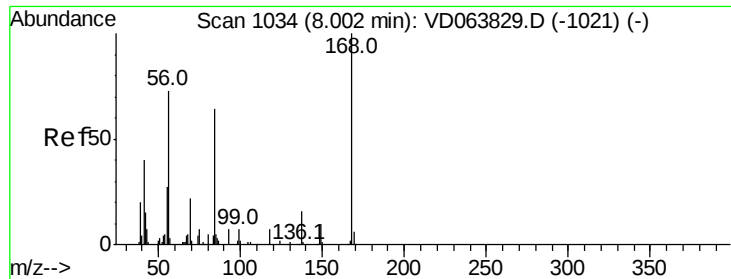
Tot Ion: 42 Resp: 41681
Ion Ratio Lower Upper
42 100
72 42.4 37.3 55.9
71 44.8 33.4 50.2



#30
Chloroform
Concen: 20.904 ug/l
RT: 7.73 min Scan# 988
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 83 Resp: 91228
Ion Ratio Lower Upper
83 100
85 66.8 53.4 80.2

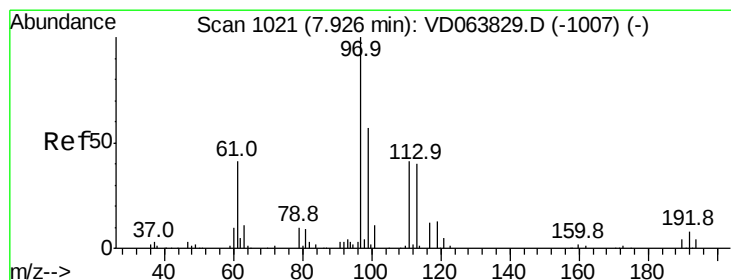
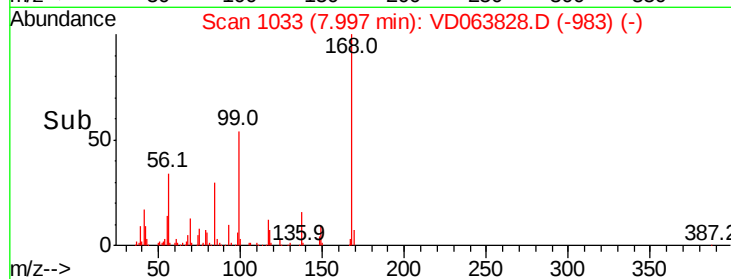
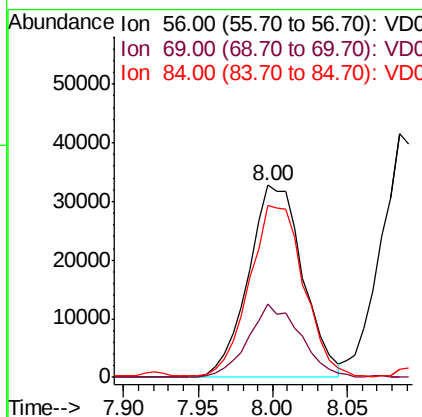
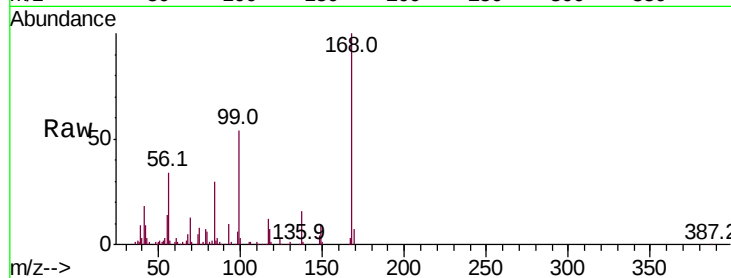




#31
Cyclohexane
Concen: 20.660 ug/l
RT: 8.00 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

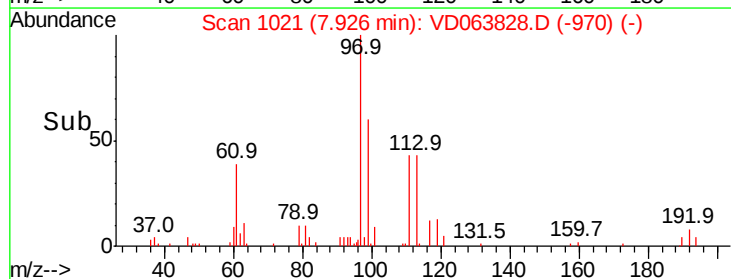
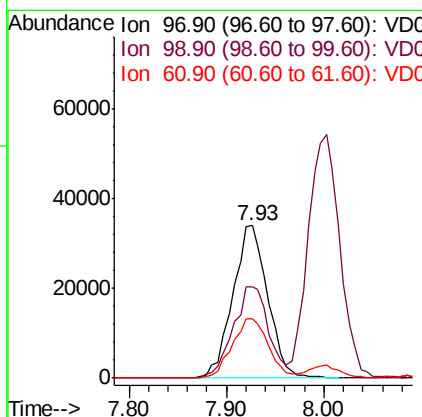
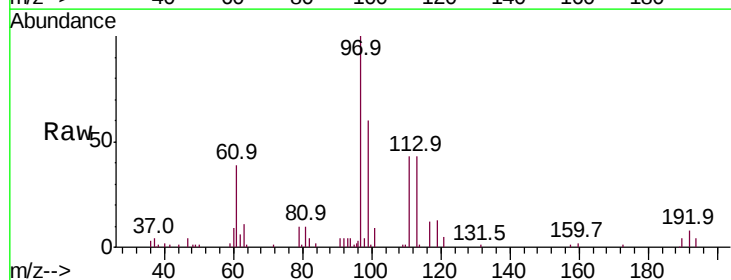
Instrument :
MSVOA_D
ClientSampleId :

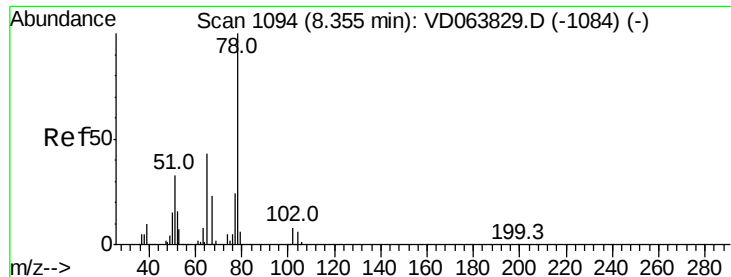
Tot Ion: 56 Resp: 82864
Ion Ratio Lower Upper
56 100
69 38.3 23.1 34.7#
84 88.4 69.7 104.5



#32
1,1,1-Trichloroethane
Concen: 21.359 ug/l
RT: 7.93 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 97 Resp: 84284
Ion Ratio Lower Upper
97 100
99 60.7 52.9 79.3
61 40.6 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 20.346 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

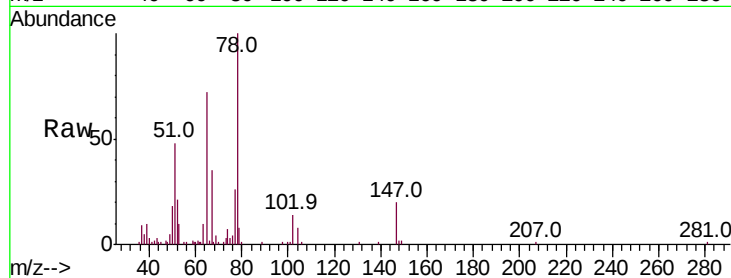
ClientSampleId :

Tot Ion: 65 Resp: 45450

Ion Ratio Lower Upper

65 100

67 55.5 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.35

20000

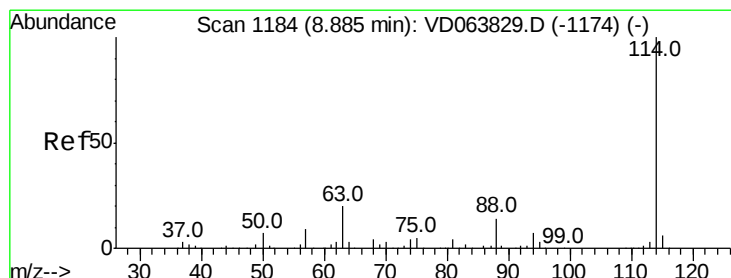
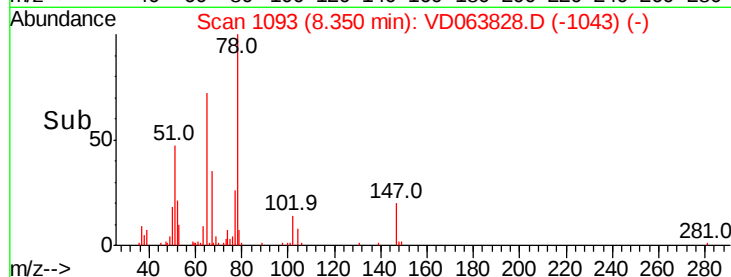
15000

10000

5000

0

Time--> 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.88 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

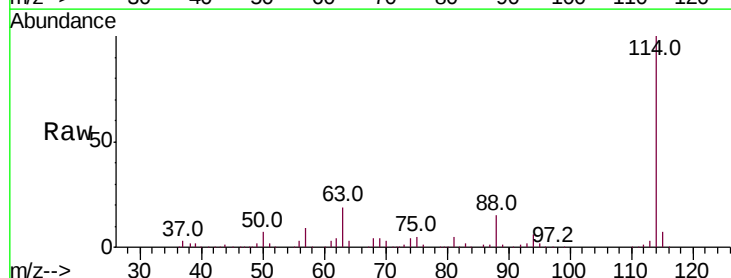
Tgt Ion:114 Resp: 378055

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.2

88 15.5 0.0 28.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

250000

200000

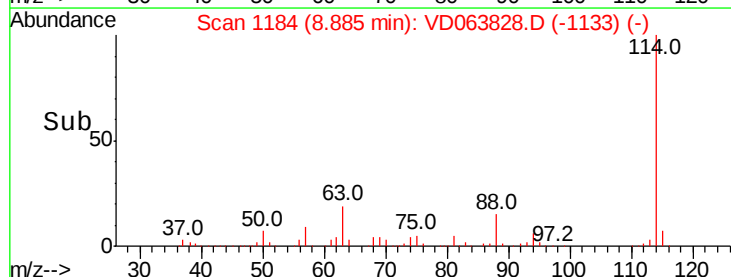
150000

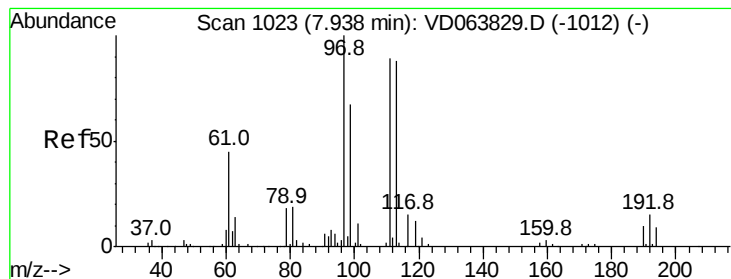
100000

50000

0

Time--> 8.80 8.90 9.00





#35

Dibromofluoromethane

Concen: 20.660 ug/l

RT: 7.94 min Scan# 1024

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampled :

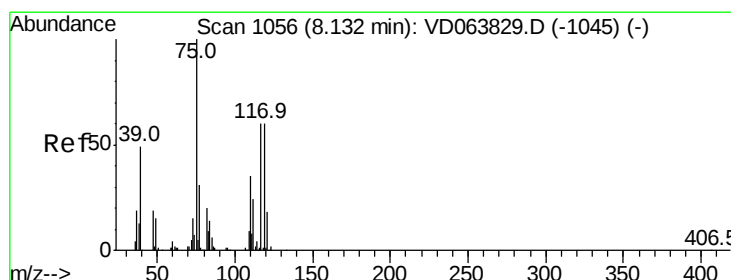
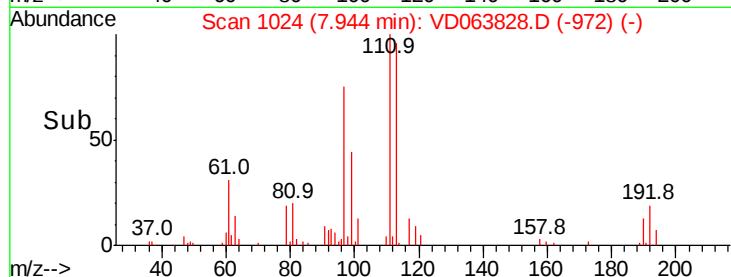
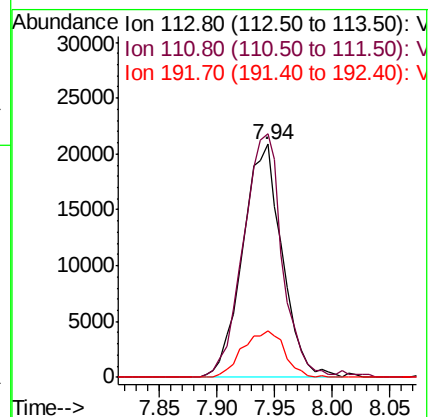
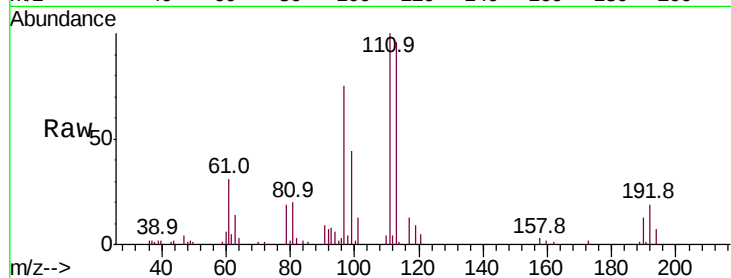
Tot Ion:113 Resp: 49583

Ion Ratio Lower Upper

113 100

111 103.2 77.7 116.5

192 21.1 15.9 23.9



#36

1,1-Dichloropropene

Concen: 20.682 ug/l

RT: 8.13 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

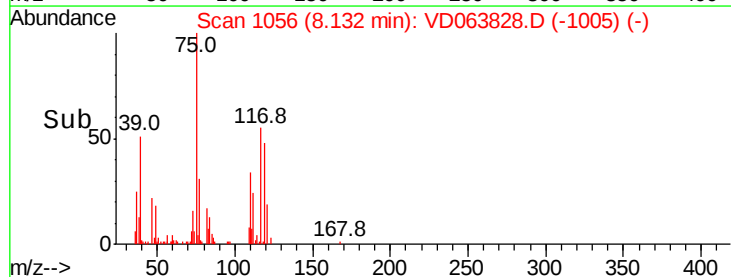
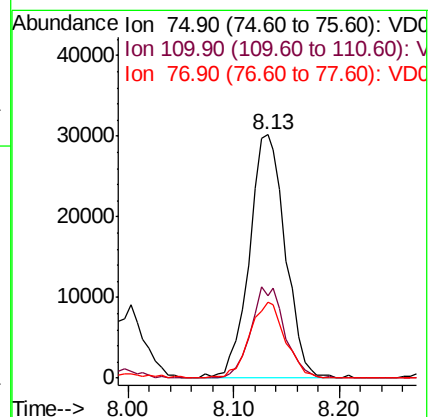
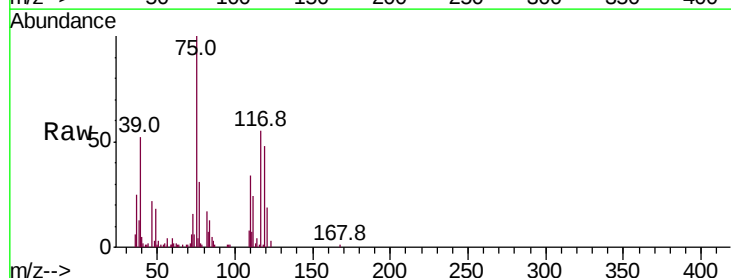
Tgt Ion: 75 Resp: 71319

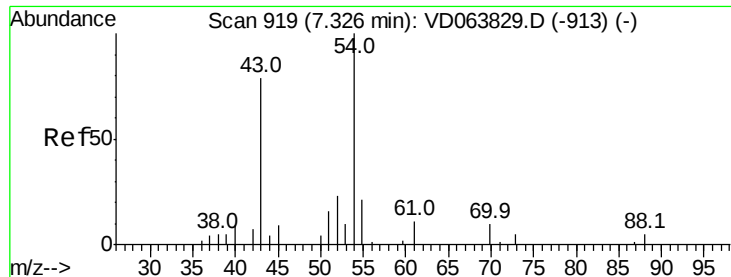
Ion Ratio Lower Upper

75 100

110 35.4 17.5 52.5

77 31.2 24.9 37.3

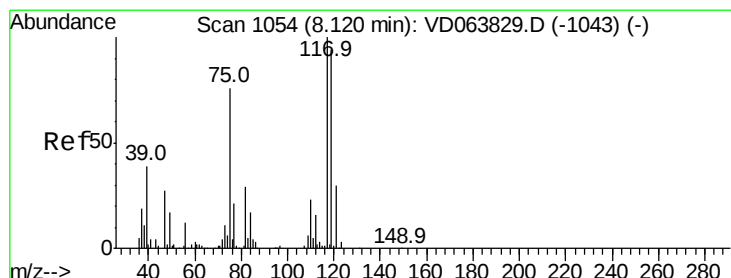
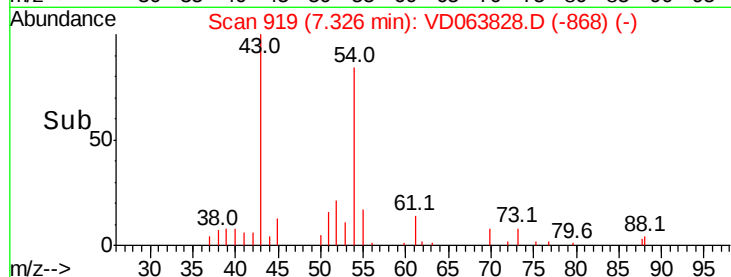
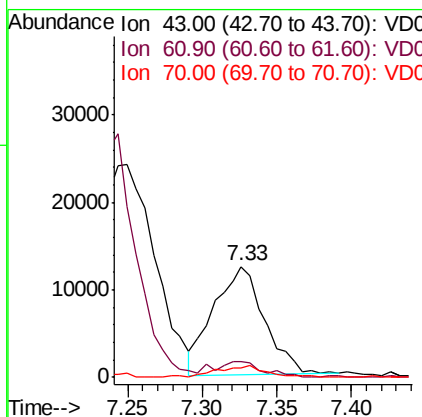
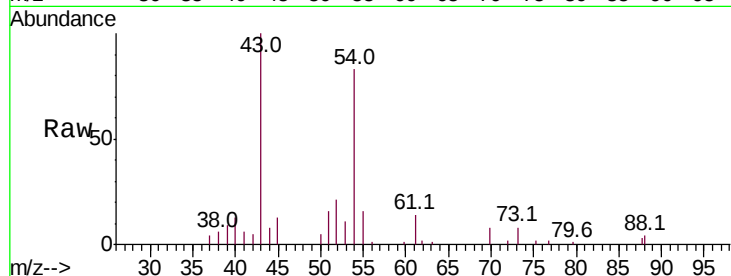




#37
Ethyl Acetate
Concen: 20.297 ug/l
RT: 7.33 min Scan# 919
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

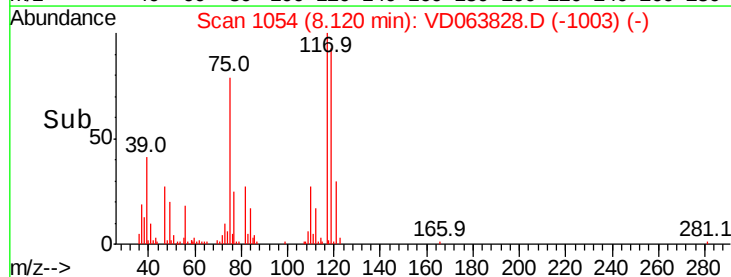
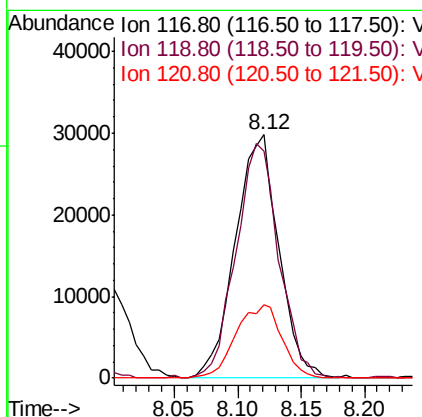
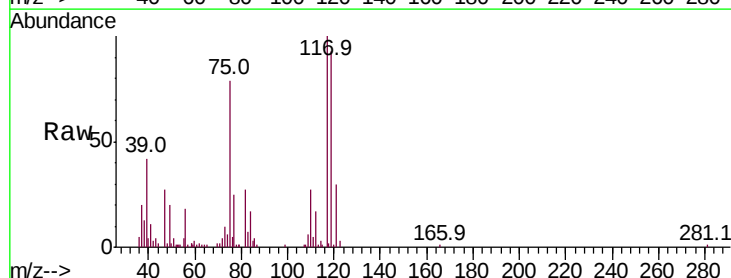
Instrument :
MSVOA_D
ClientSampleID :

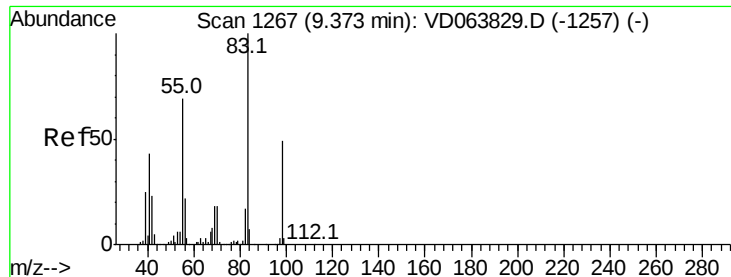
Tot Ion: 43 Resp: 29232
Ion Ratio Lower Upper
43 100
61 14.0 12.7 19.1
70 10.3 8.3 12.5



#38
Carbon Tetrachloride
Concen: 19.785 ug/l
RT: 8.12 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 117 Resp: 71011
Ion Ratio Lower Upper
117 100
119 93.2 75.2 112.8
121 29.9 23.9 35.9

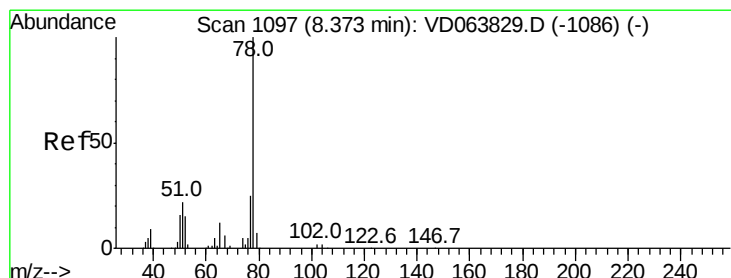
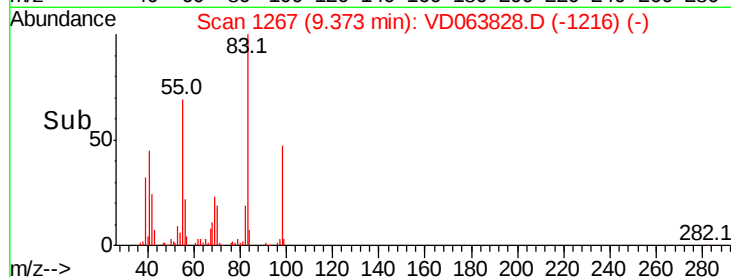
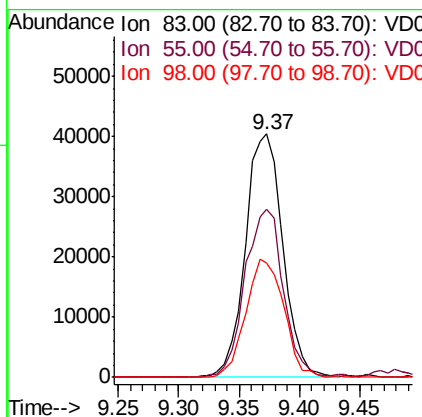
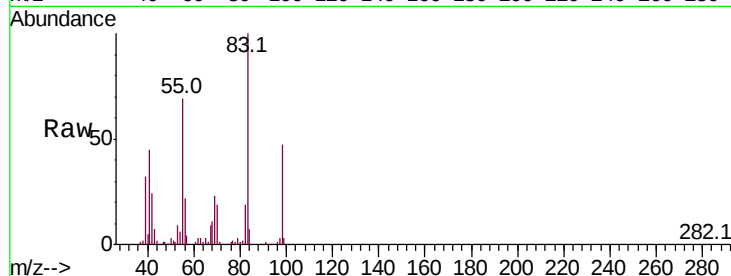




#39
Methvlcvclohexane
Concen: 20.354 ug/l
RT: 9.37 min Scan# 1267
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

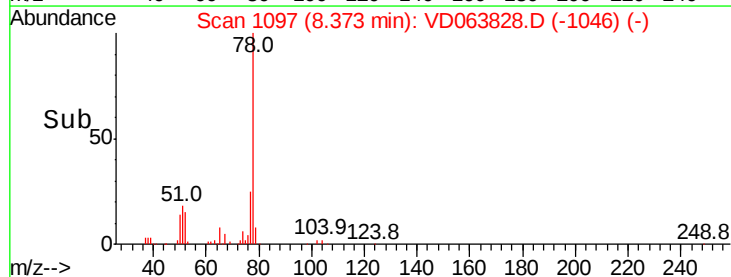
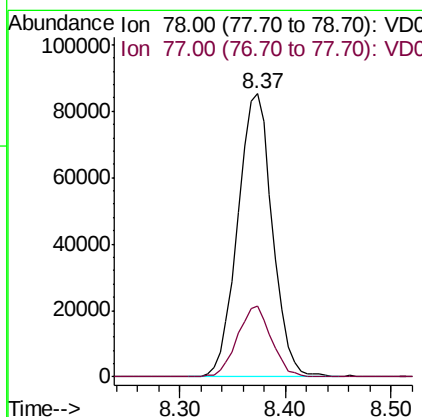
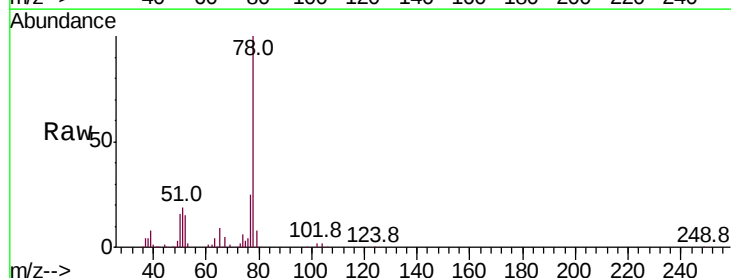
Instrument :
MSVOA_D
ClientSampled :

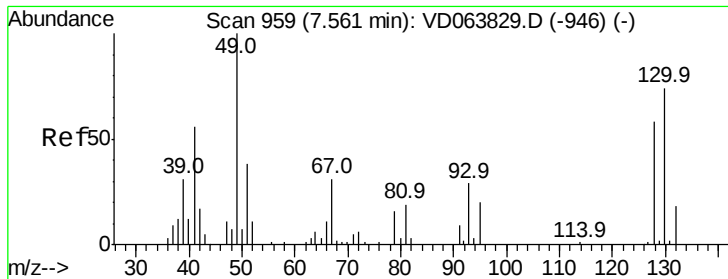
Tot Ion: 83 Resp: 87399
Ion Ratio Lower Upper
83 100
55 69.3 54.9 82.3
98 46.9 39.0 58.6



#40
Benzene
Concen: 20.443 ug/l
RT: 8.37 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 78 Resp: 194144
Ion Ratio Lower Upper
78 100
77 24.9 19.8 29.6

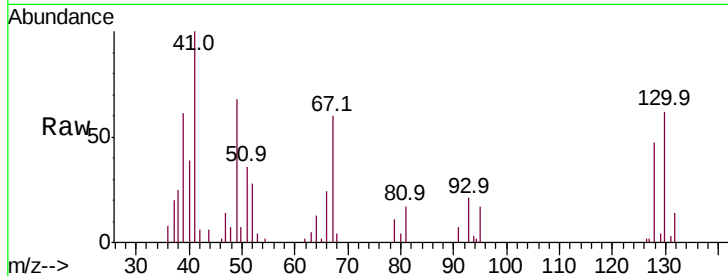




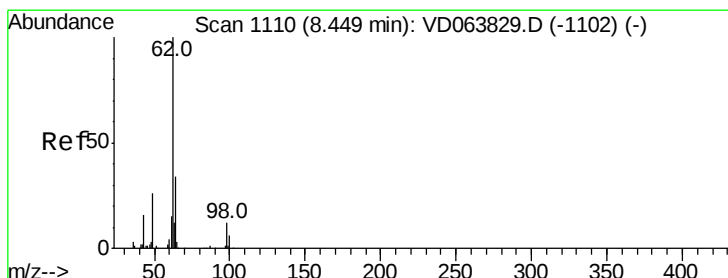
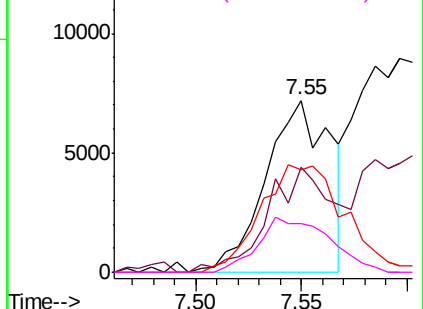
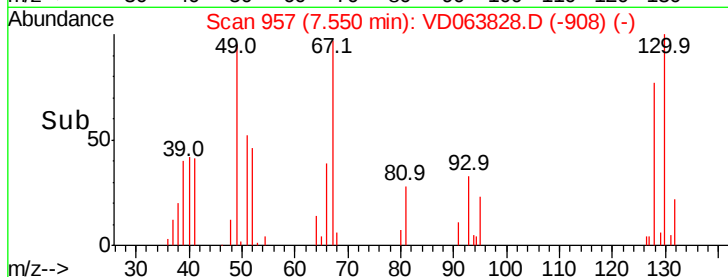
#41
Methacrylonitrile
Concen: 18.106 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 41 Resp: 15401
Ion Ratio Lower Upper
41 100
39 64.8 52.2 78.4
67 80.5 58.6 87.8
52 35.0 26.6 39.8

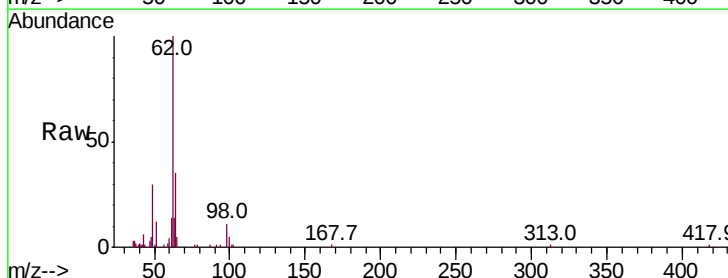


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

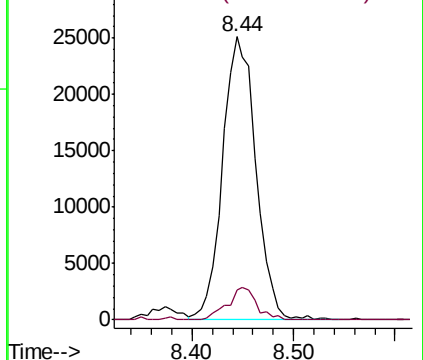
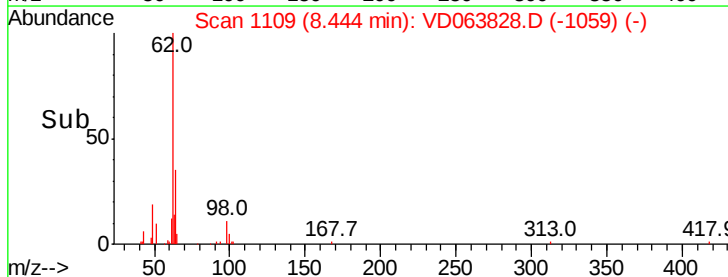


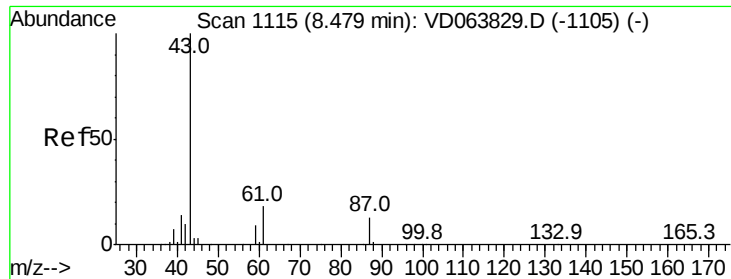
#42
1,2-Dichloroethane
Concen: 20.572 ug/l
RT: 8.44 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 62 Resp: 57130
Ion Ratio Lower Upper
62 100
98 10.1 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 20.962 ug/l

RT: 8.48 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

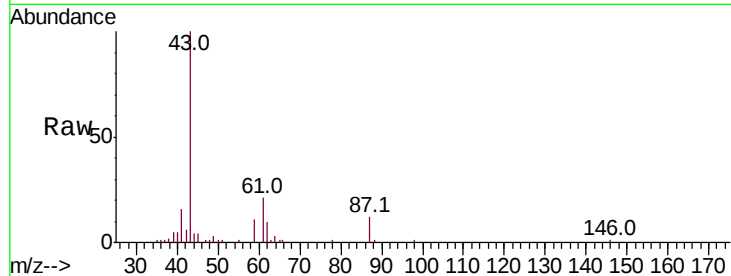
Tot Ion: 43 Resp: 60521

Ion Ratio Lower Upper

43 100

61 28.7 24.6 37.0

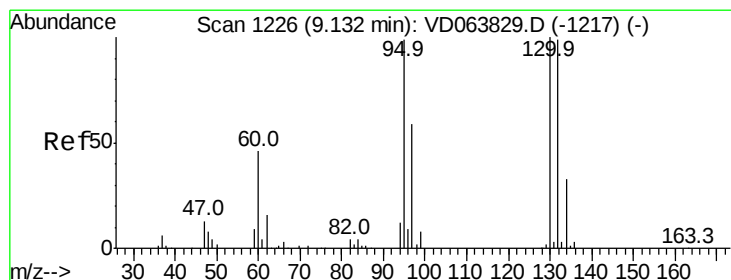
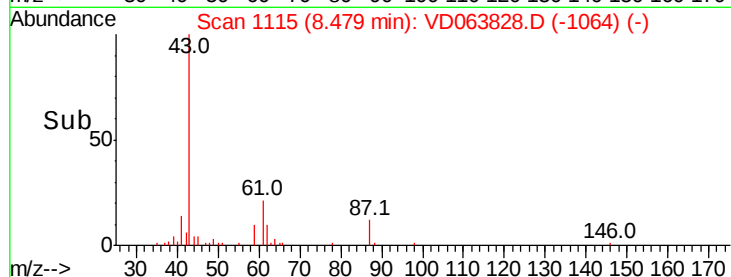
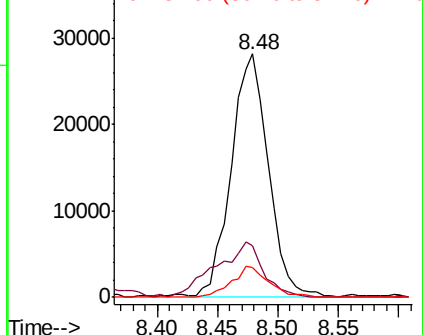
87 12.6 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 20.310 ug/l

RT: 9.13 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VD063828.D

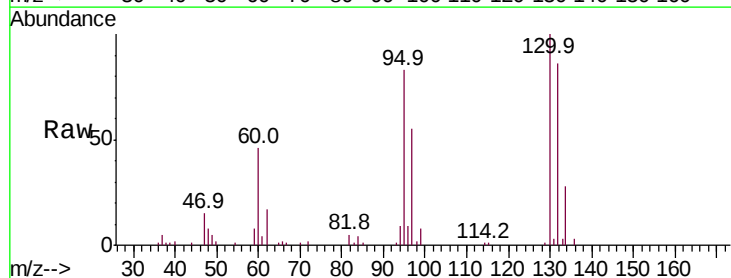
Acq: 25 Sep 2019 17:53

Tgt Ion:130 Resp: 55859

Ion Ratio Lower Upper

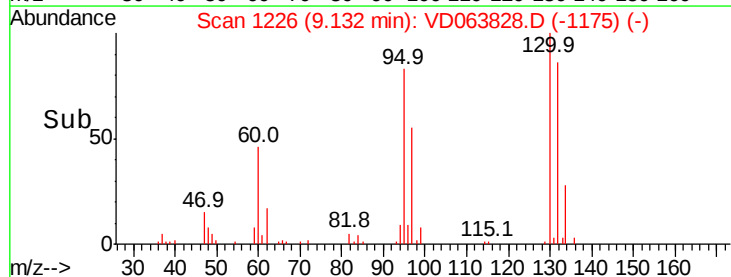
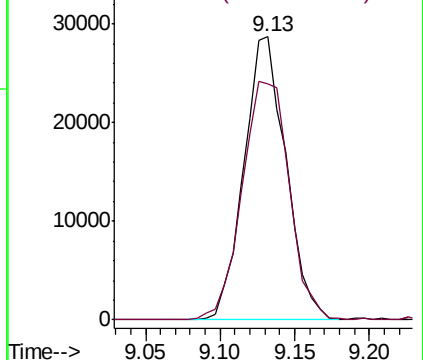
130 100

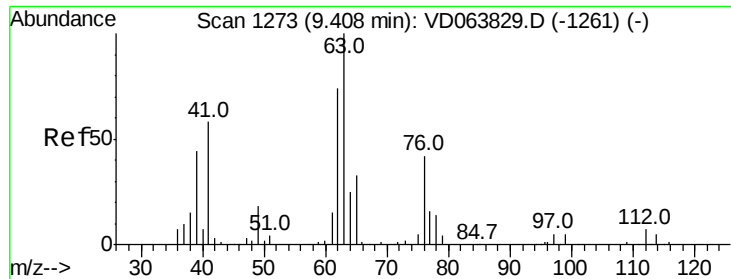
95 83.3 0.0 198.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.507 ug/l

RT: 9.40 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

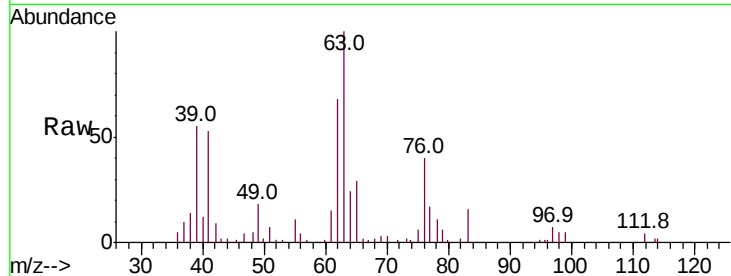
ClientSampled :

Tot Ion: 63 Resp: 48110

Ion Ratio Lower Upper

63 100

65 28.9 26.8 40.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

9.40

25000

20000

15000

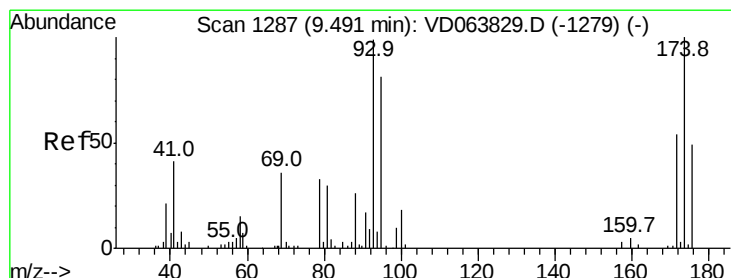
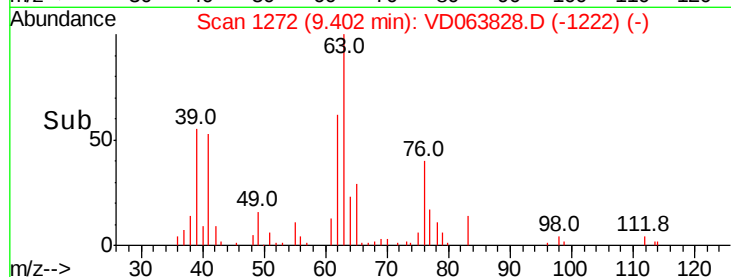
10000

5000

0

Time-->

9.30 9.35 9.40 9.45 9.50



#46

Dibromomethane

Concen: 20.288 ug/l

RT: 9.49 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

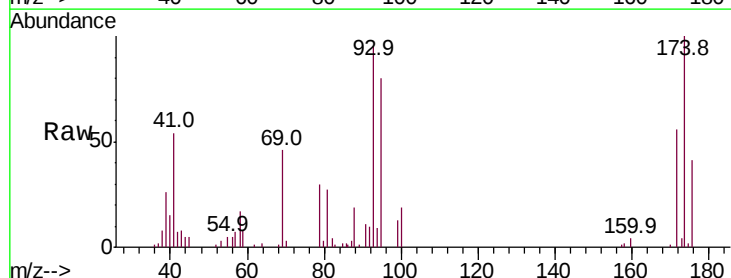
Tgt Ion: 93 Resp: 26864

Ion Ratio Lower Upper

93 100

95 84.5 63.8 95.8

174 105.8 84.2 126.2



Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V

20000

15000

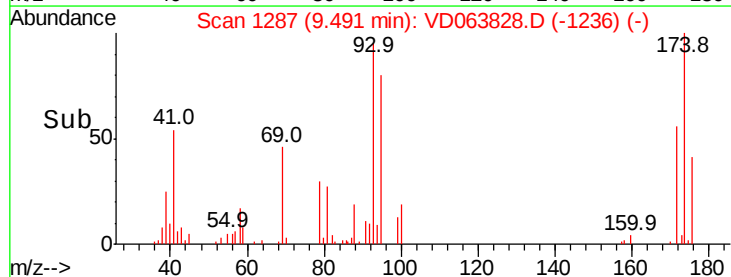
10000

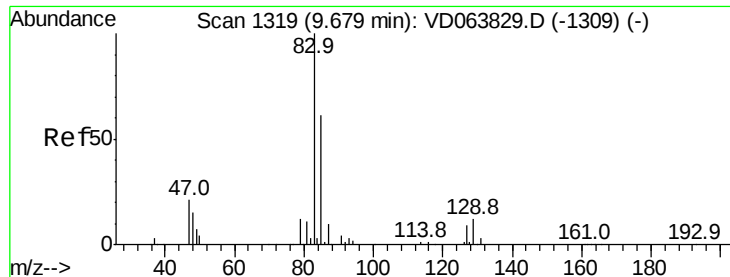
5000

0

Time-->

9.40 9.45 9.50 9.55





#47

Bromodichloromethane

Concen: 20.557 ug/l

RT: 9.68 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

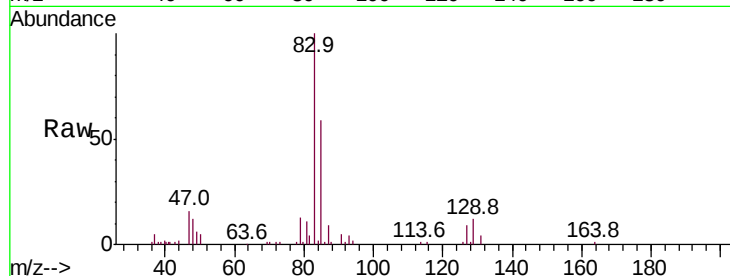
Tot Ion: 83 Resp: 70169

Ion Ratio Lower Upper

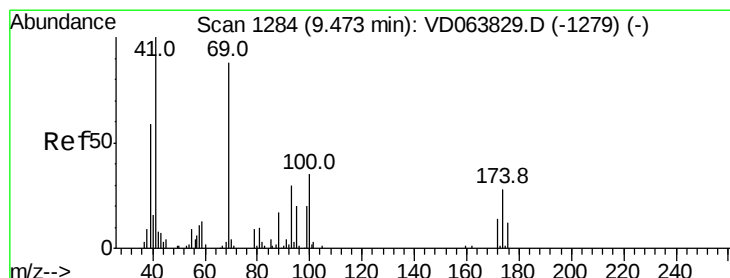
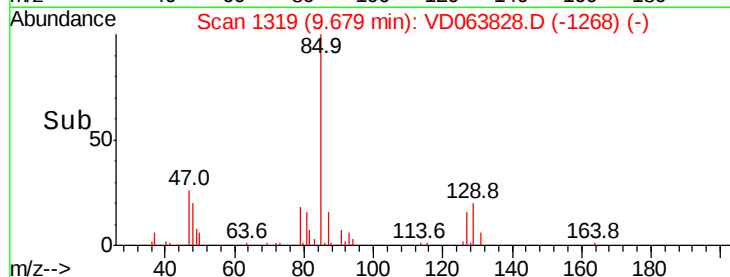
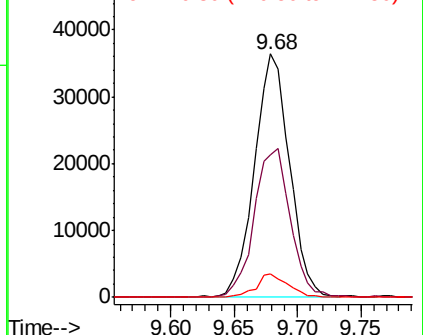
83 100

85 58.7 48.6 73.0

127 9.5 6.9 10.3



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 21.551 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

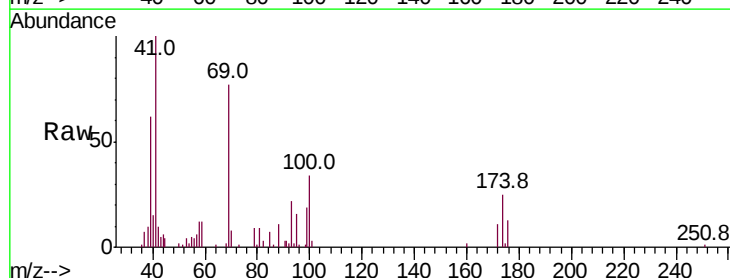
Tgt Ion: 41 Resp: 28301

Ion Ratio Lower Upper

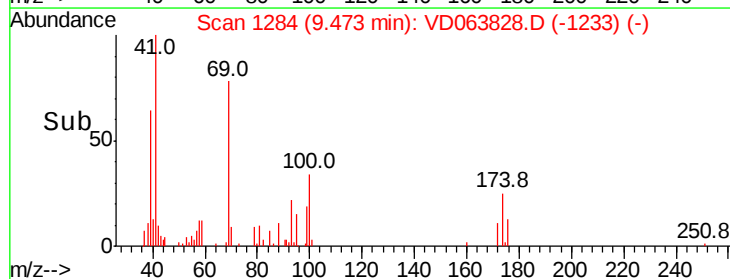
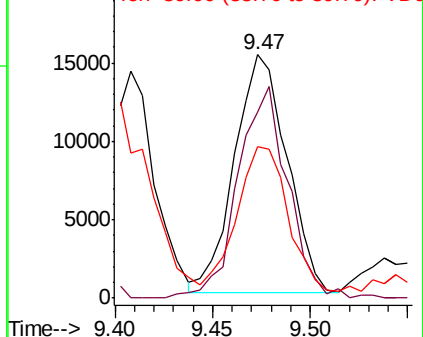
41 100

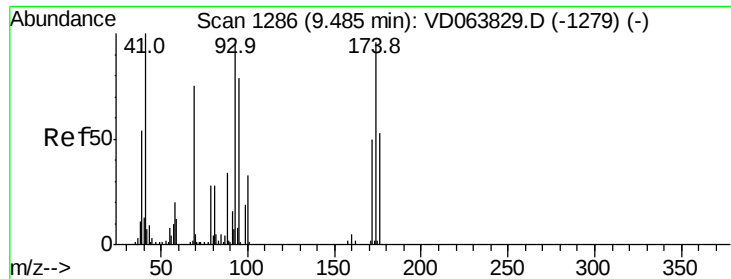
69 84.6 71.7 107.5

39 65.0 51.7 77.5



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC

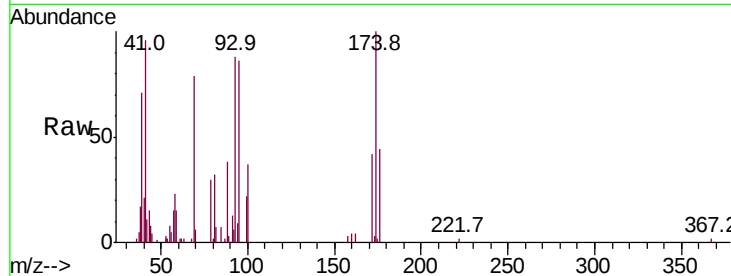




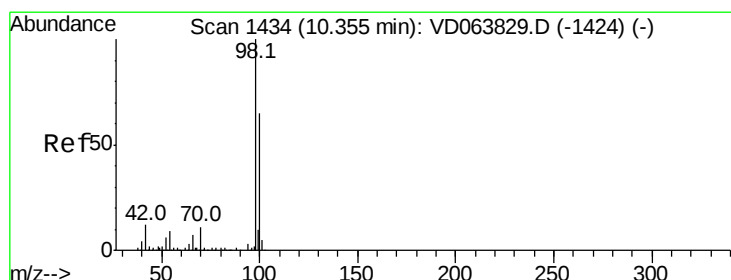
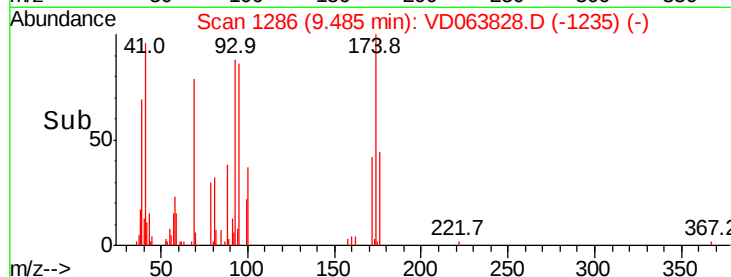
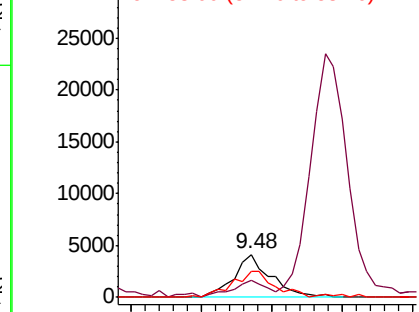
#49
1,4-Dioxane
Concen: 409.704 ug/l
RT: 9.48 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 7568
Ion Ratio Lower Upper
88 100
43 35.8 25.8 38.6
58 69.0 55.9 83.9

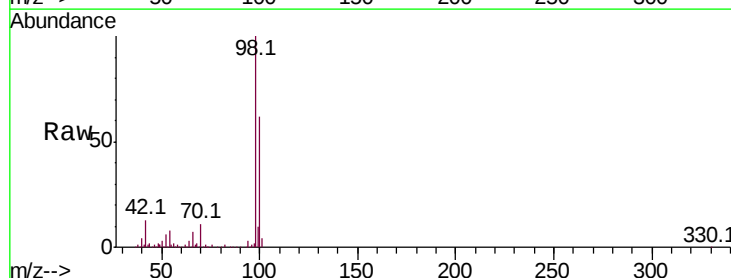


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

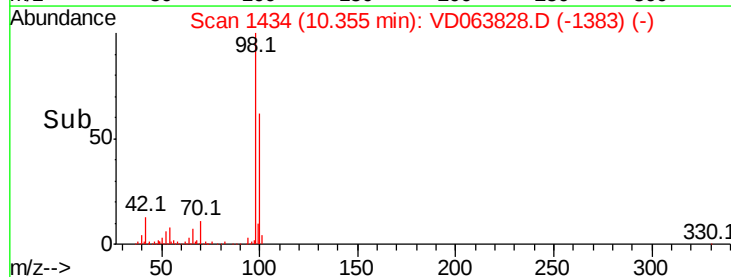
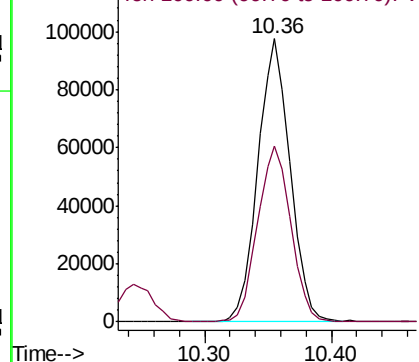


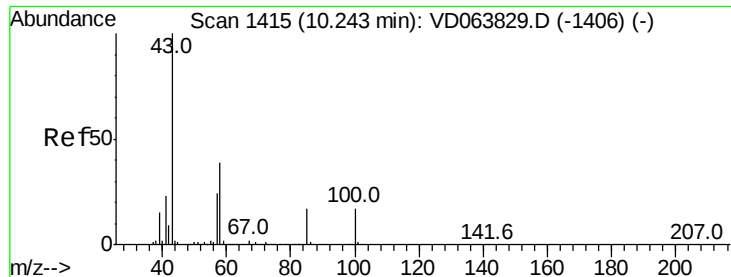
#50
Toluene-d8
Concen: 19.146 ug/l
RT: 10.36 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion: 98 Resp: 172965
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 103.144 ug/l

RT: 10.25 min Scan# 1416

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

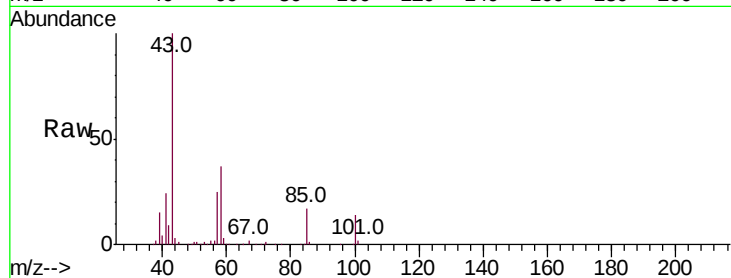
ClientSampleId :

Tot Ion: 43 Resp: 150026

Ion Ratio Lower Upper

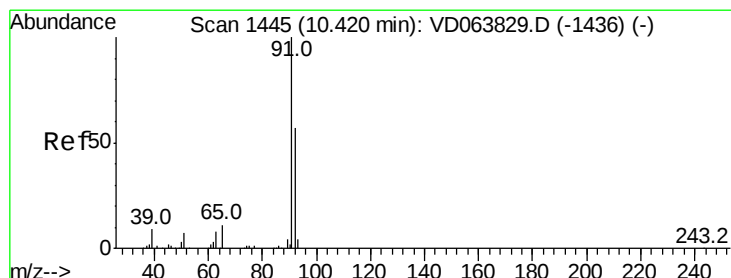
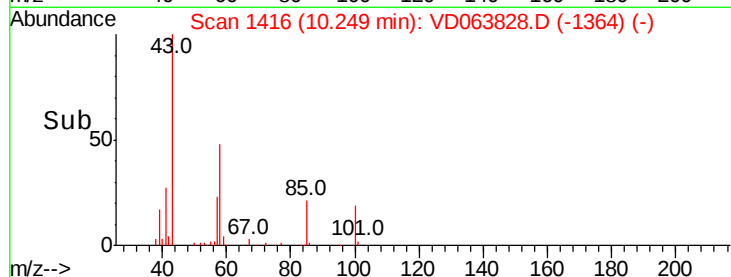
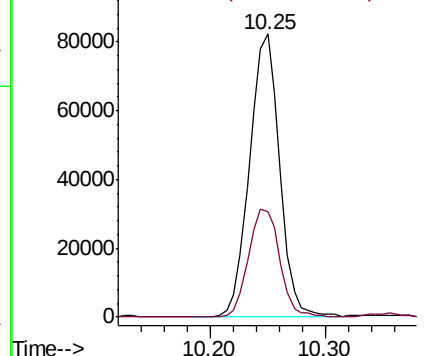
43 100

58 39.4 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 19.923 ug/l

RT: 10.42 min Scan# 1445

Delta R.T. 0.00 min

Lab File: VD063828.D

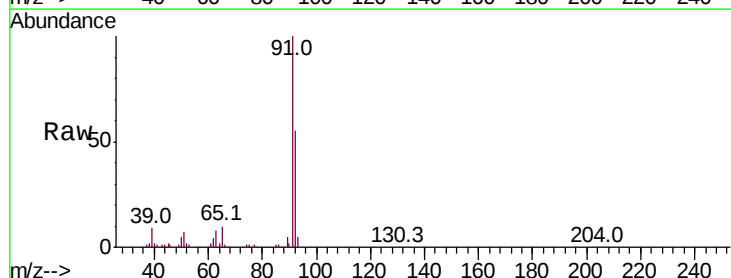
Acq: 25 Sep 2019 17:53

Tgt Ion: 92 Resp: 128290

Ion Ratio Lower Upper

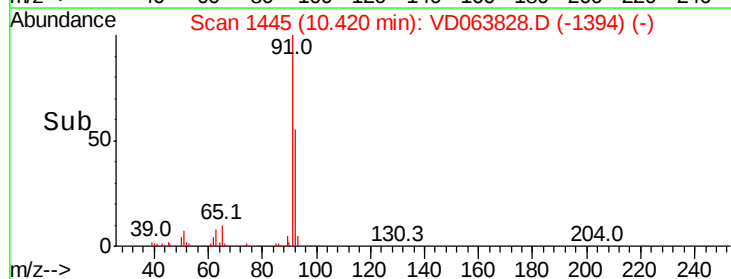
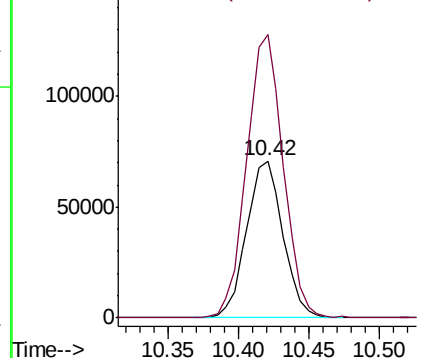
92 100

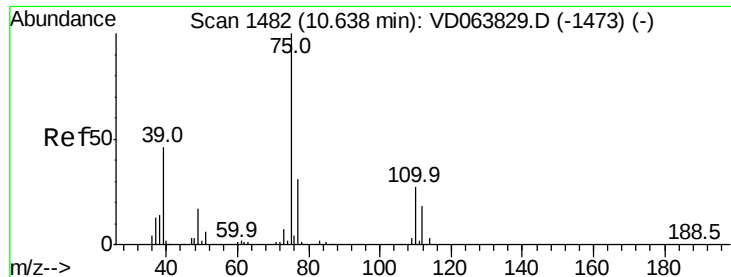
91 181.5 139.7 209.5



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: 20.346 ug/l

RT: 10.64 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

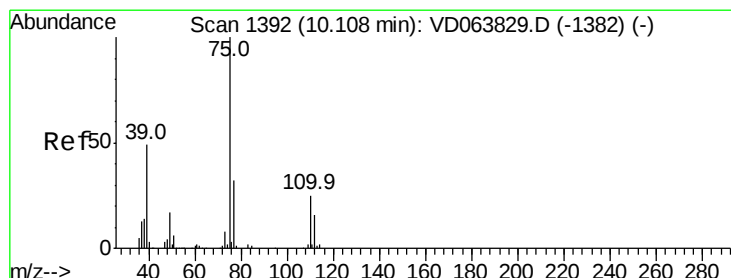
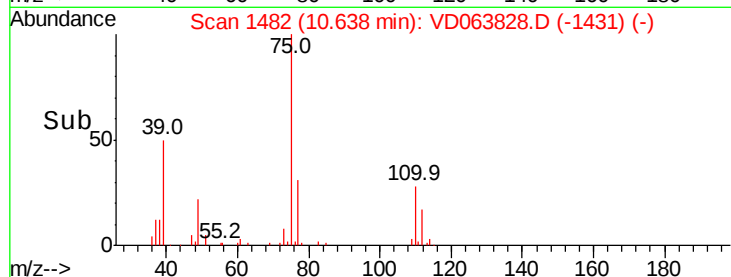
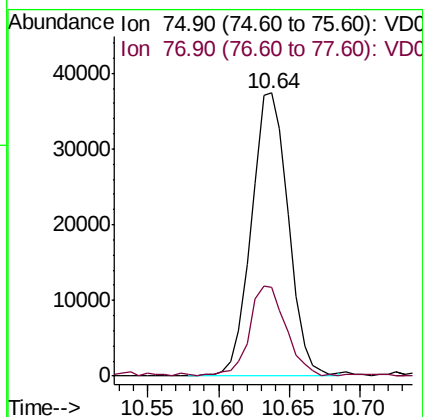
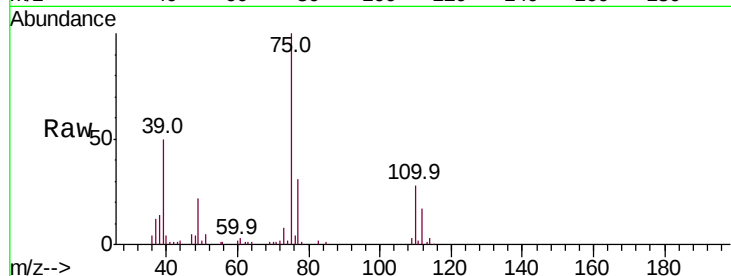
ClientSampled :

Tot Ion: 75 Resp: 68838

Ion Ratio Lower Upper

75 100

77 31.2 24.9 37.3



#54

cis-1,3-Dichloropropene

Concen: 20.879 ug/l

RT: 10.11 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

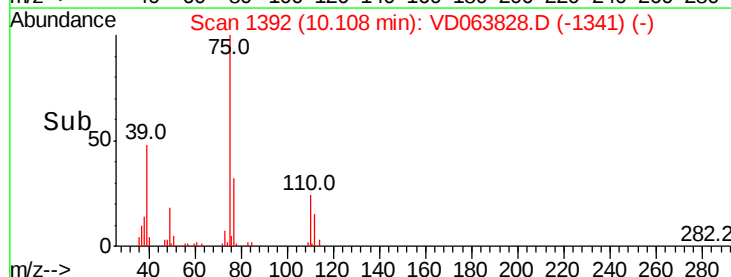
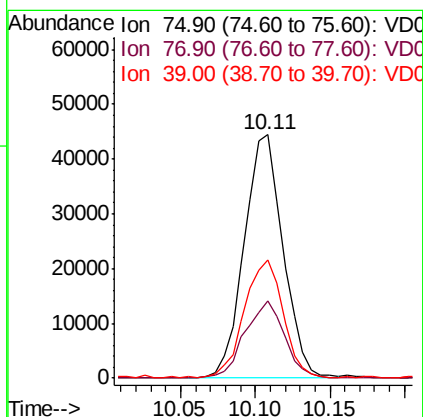
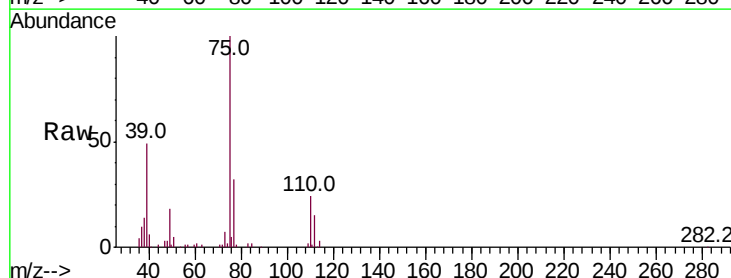
Tgt Ion: 75 Resp: 80188

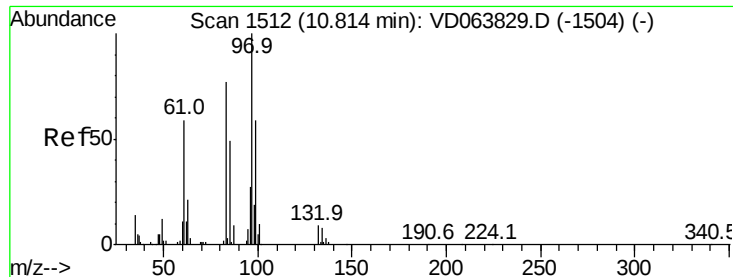
Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.8

39 48.5 39.5 59.3





#55

1,1,2-Trichloroethane

Concen: 20.785 ug/l

RT: 10.82 min Scan# 1513

Delta R.T. 0.01 min

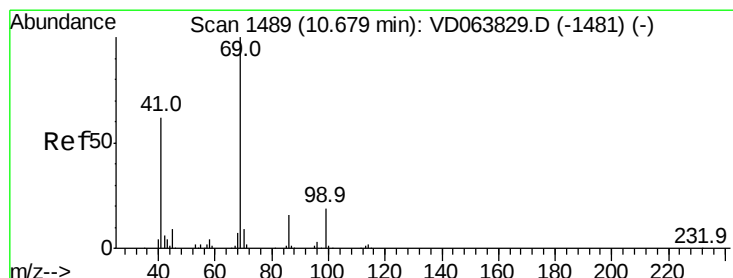
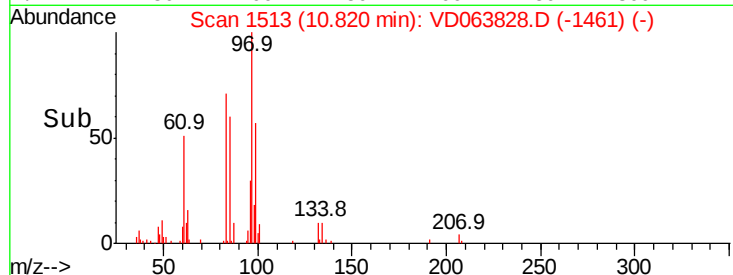
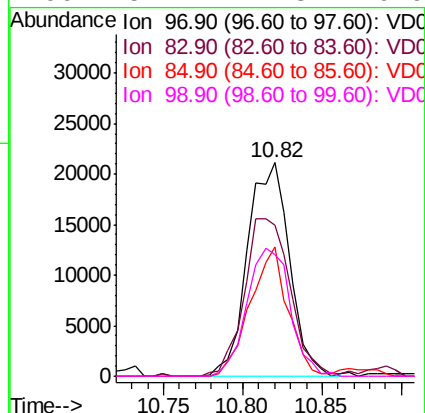
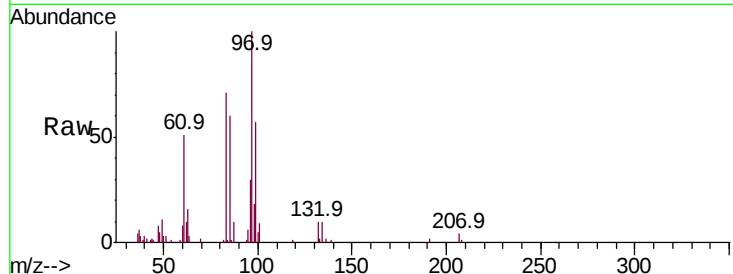
Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 97 Resp: 38888

Ion	Ratio	Lower	Upper
97	100		
83	70.8	61.9	92.9
85	60.4	39.4	59.2#
99	57.2	47.3	70.9



#56

Ethyl methacrylate

Concen: 20.129 ug/l

RT: 10.67 min Scan# 1488

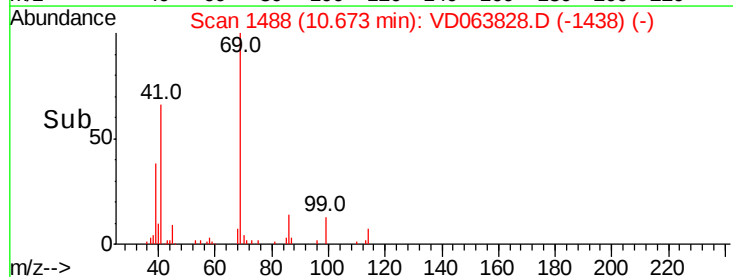
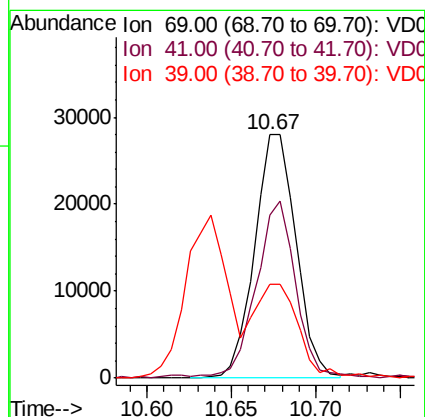
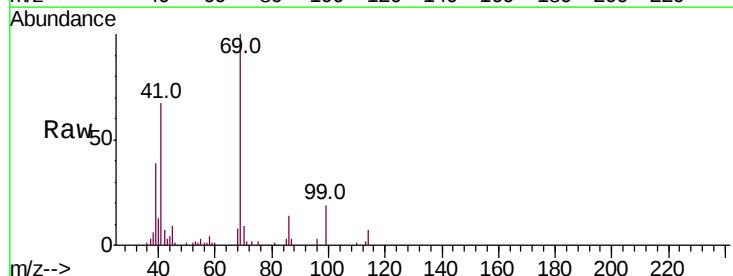
Delta R.T. -0.01 min

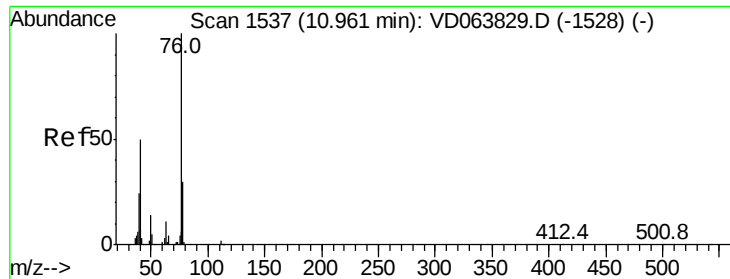
Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Tgt Ion: 69 Resp: 47867

Ion	Ratio	Lower	Upper
69	100		
41	69.6	52.2	78.4
39	39.6	28.7	43.1





#57

1,3-Dichloropropane

Concen: 20.422 ug/l

RT: 10.96 min Scan# 1537

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

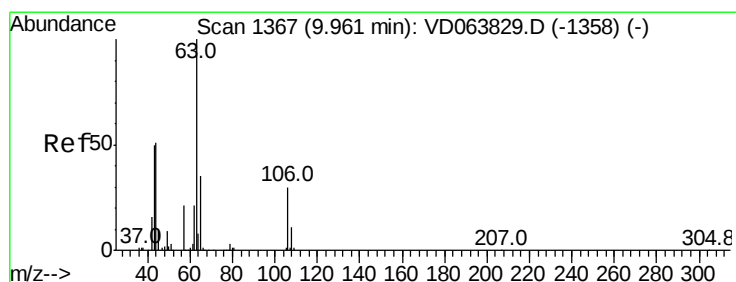
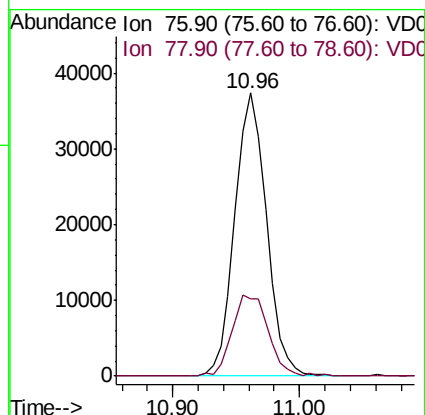
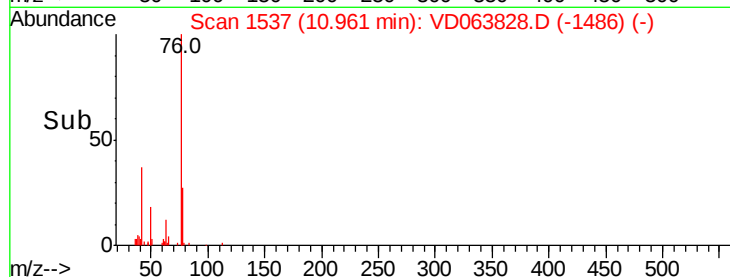
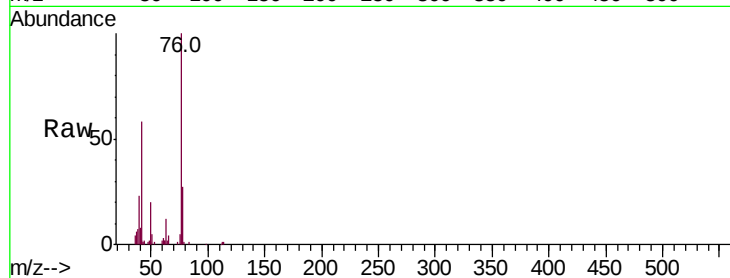
ClientSampleId :

Tot Ion: 76 Resp: 64921

Ion Ratio Lower Upper

76 100

78 32.1 25.7 38.5



#58

2-Chloroethyl Vinyl ether

Concen: 106.856 ug/l

RT: 9.96 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VD063828.D

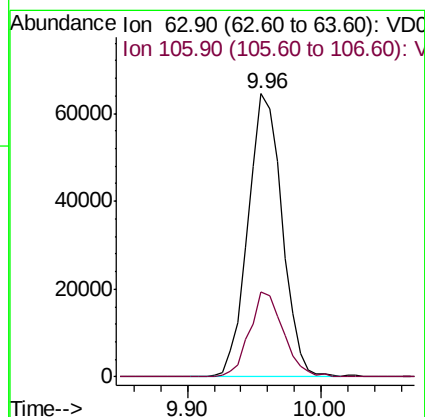
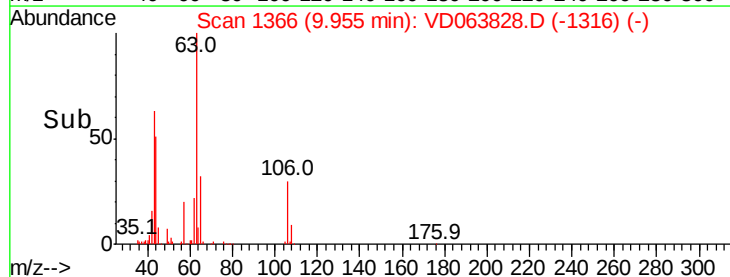
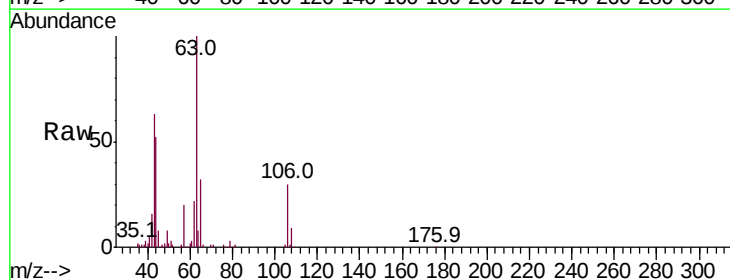
Acq: 25 Sep 2019 17:53

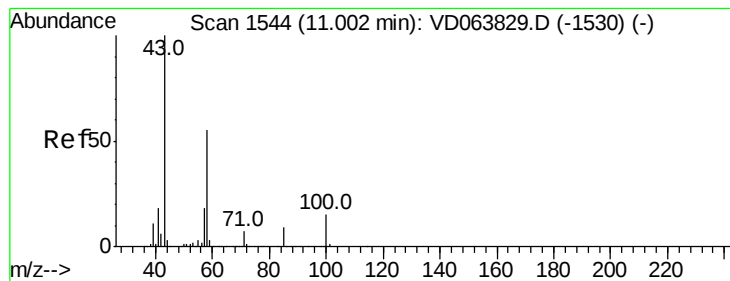
Tgt Ion: 63 Resp: 113573

Ion Ratio Lower Upper

63 100

106 29.8 23.4 35.0





#59

2-Hexanone

Concen: 103.815 ug/l

RT: 11.00 min Scan# 1544

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

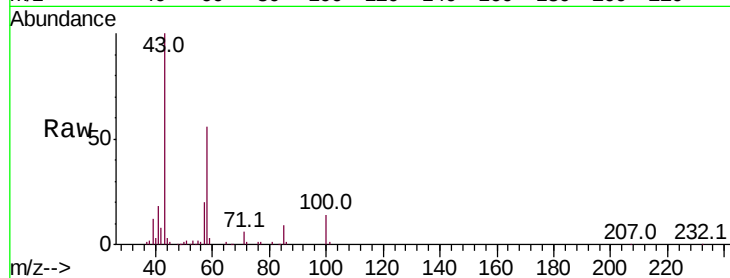
ClientSampleId :

Tot Ion: 43 Resp: 107740

Ion Ratio Lower Upper

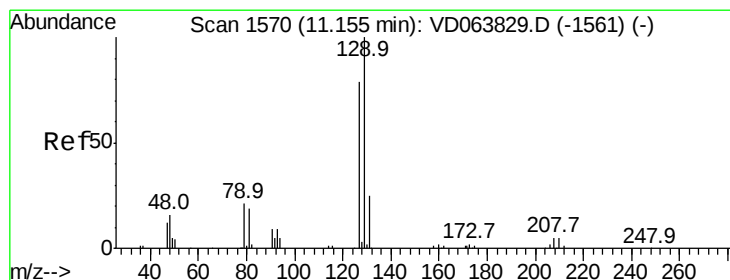
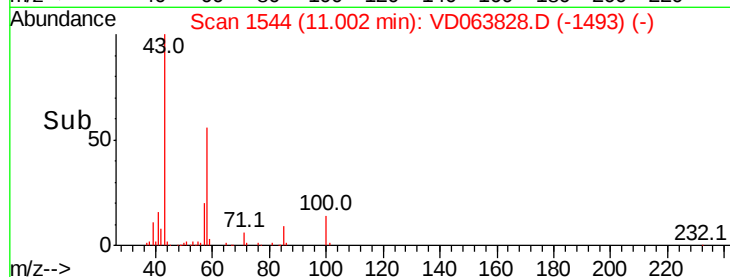
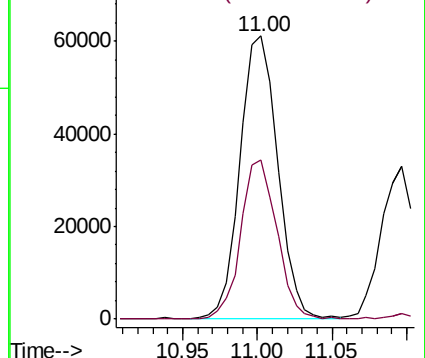
43 100

58 53.6 27.6 82.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#60

Dibromochloromethane

Concen: 20.164 ug/l

RT: 11.16 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VD063828.D

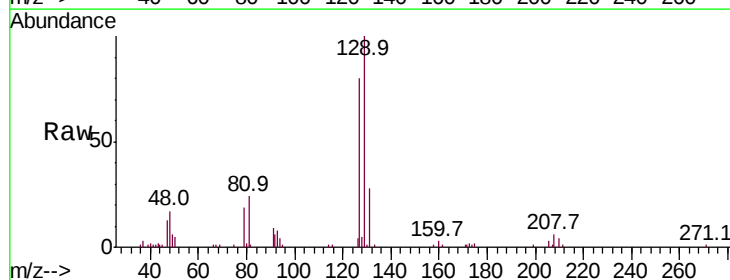
Acq: 25 Sep 2019 17:53

Tgt Ion: 129 Resp: 49786

Ion Ratio Lower Upper

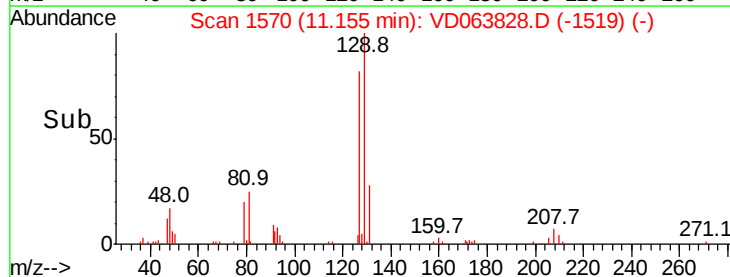
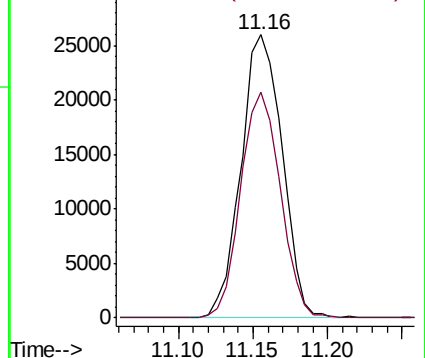
129 100

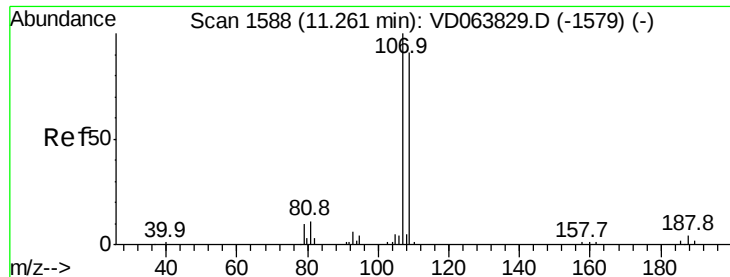
127 77.3 38.8 116.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

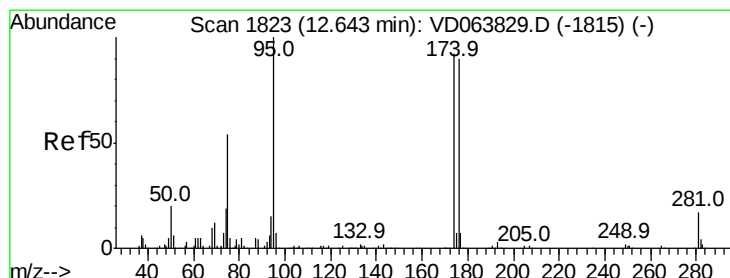
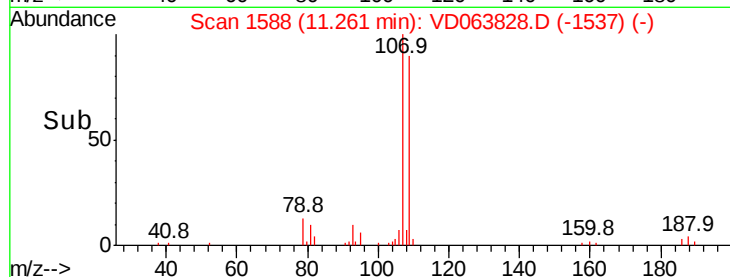
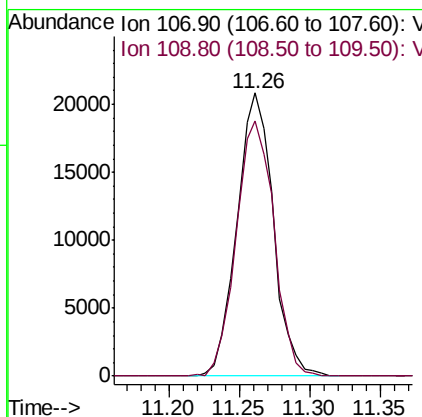
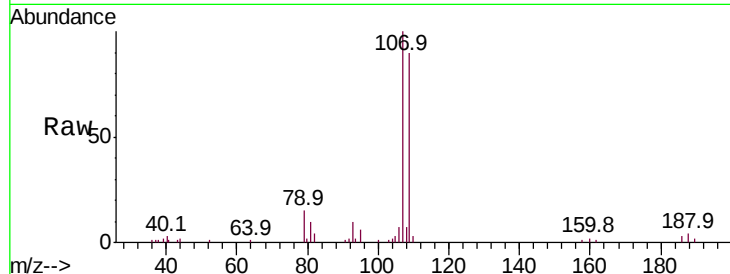




#61
 1,2-Dibromoethane
 Concen: 20.050 ug/l
 RT: 11.26 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VD063828.D
 Acq: 25 Sep 2019 17:53

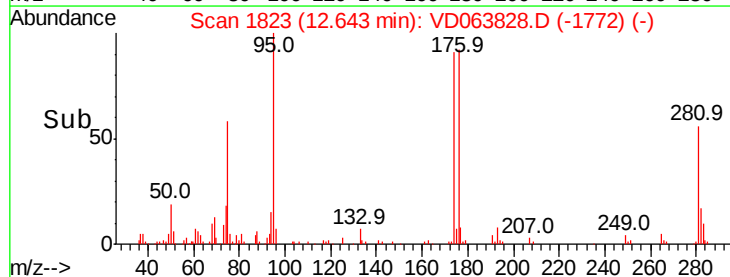
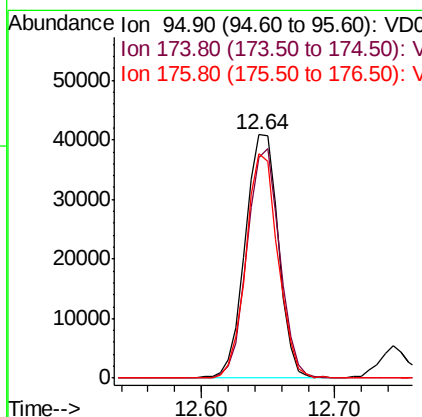
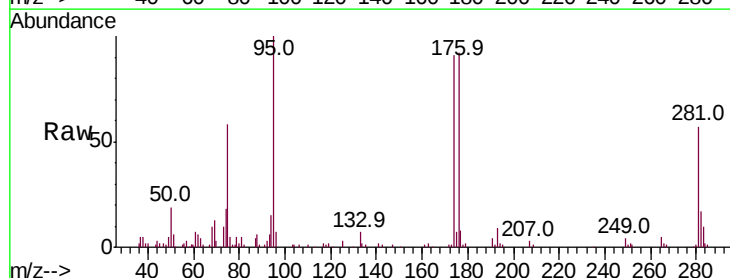
Instrument :
 MSVOA_D
 ClientSampleId :

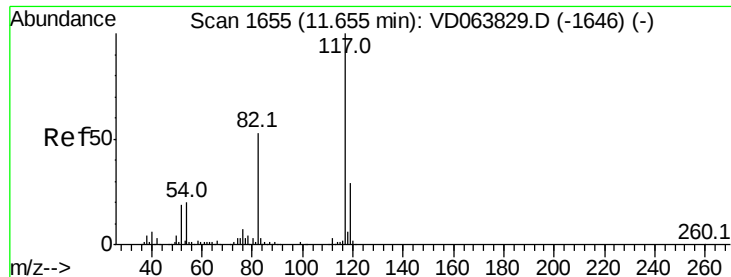
Tot Ion:107 Resp: 37501
 Ion Ratio Lower Upper
 107 100
 109 93.8 74.9 112.3



#62
 4-Bromofluorobenzene
 Concen: 21.580 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. 0.00 min
 Lab File: VD063828.D
 Acq: 25 Sep 2019 17:53

Tgt Ion: 95 Resp: 69964
 Ion Ratio Lower Upper
 95 100
 174 92.2 0.0 183.2
 176 89.1 0.0 177.4

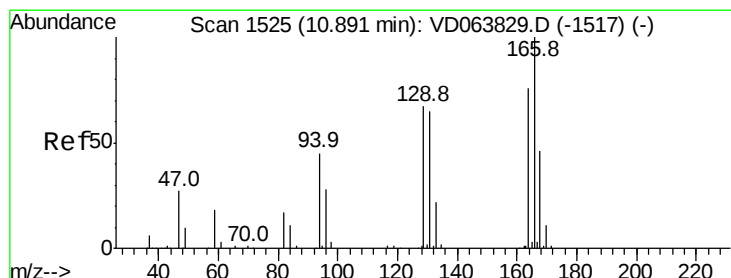
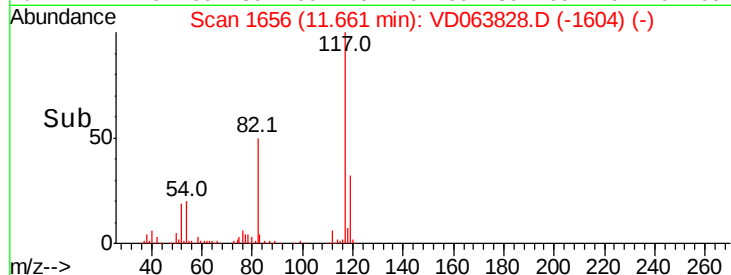
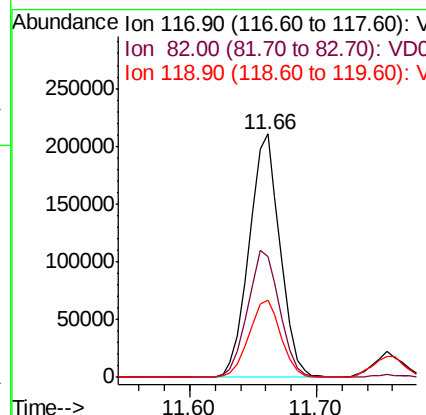
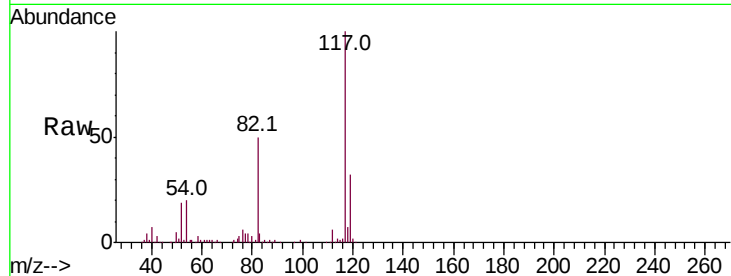




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1656
Delta R.T. 0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

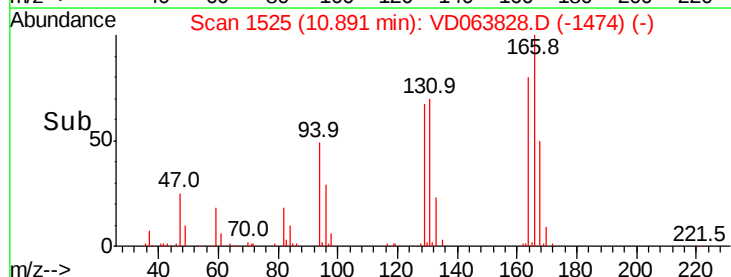
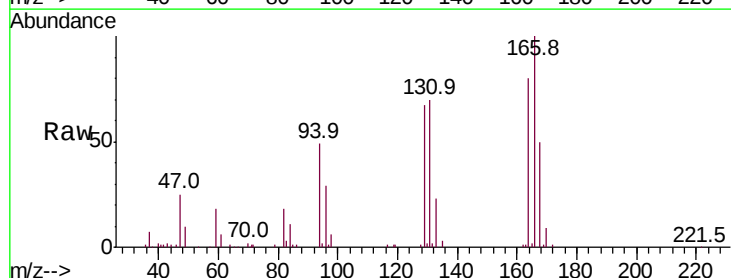
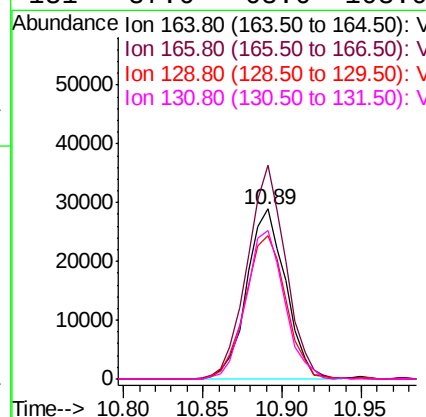
Instrument :
MSVOA_D
ClientSampleId :

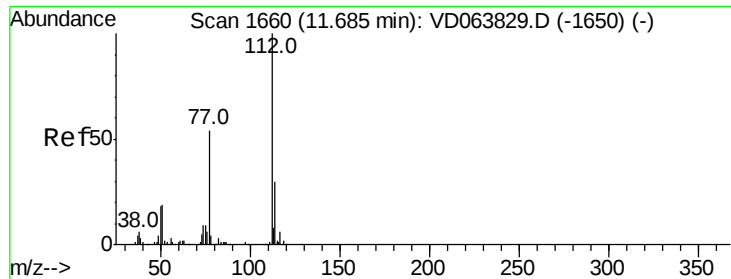
Tot Ion:117 Resp: 357425
Ion Ratio Lower Upper
117 100
82 49.7 42.4 63.6
119 31.6 23.5 35.3



#64
Tetrachloroethene
Concen: 20.432 ug/l
RT: 10.89 min Scan# 1525
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion:164 Resp: 49193
Ion Ratio Lower Upper
164 100
166 125.5 105.5 158.3
129 84.6 70.2 105.4
131 87.6 68.6 103.0

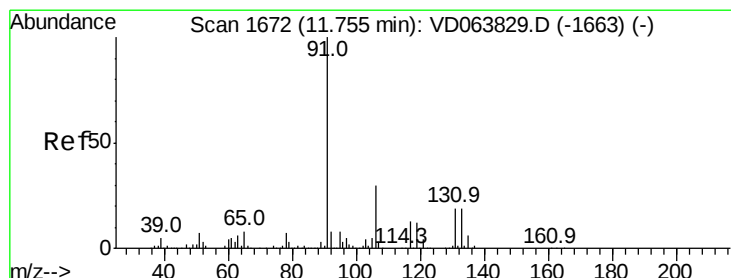
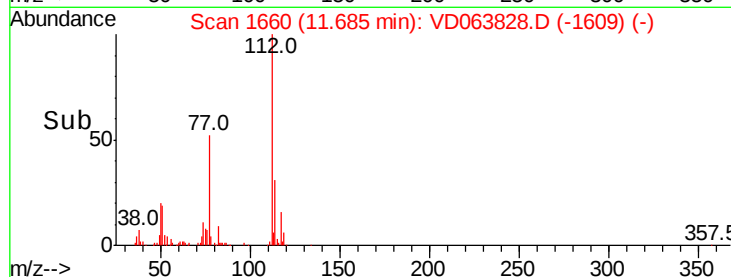
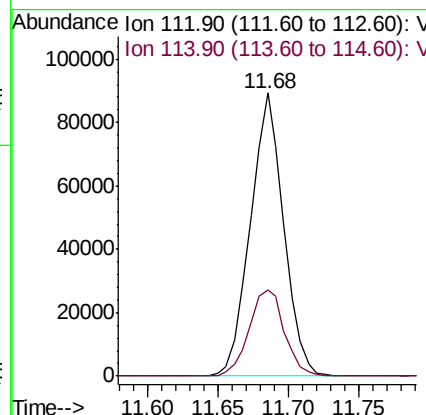
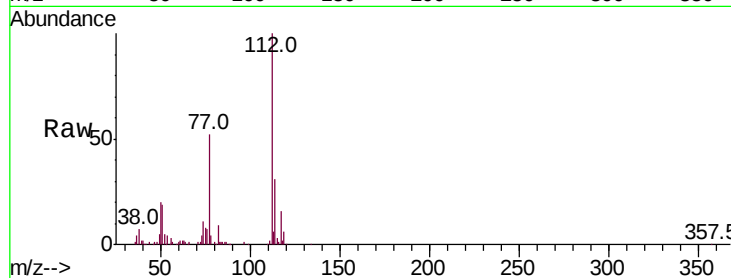




#65
Chlorobenzene
Concen: 20.504 ug/l
RT: 11.68 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

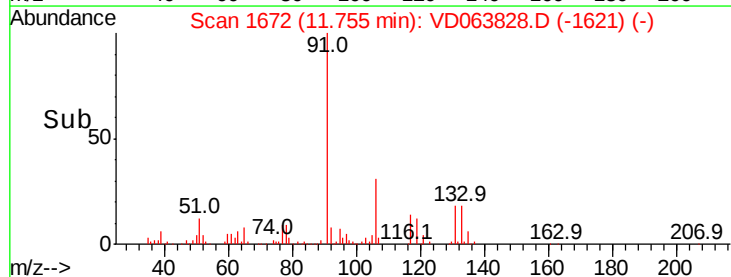
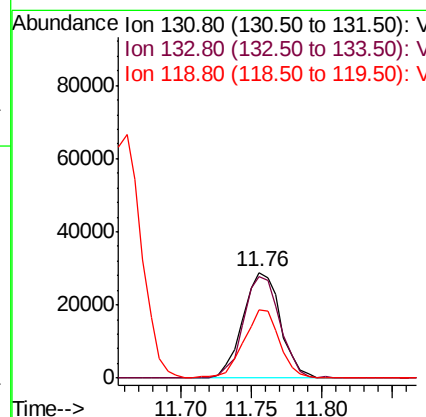
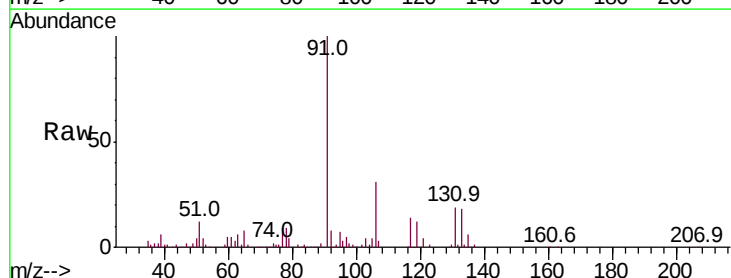
Instrument :
MSVOA_D
ClientSampled :

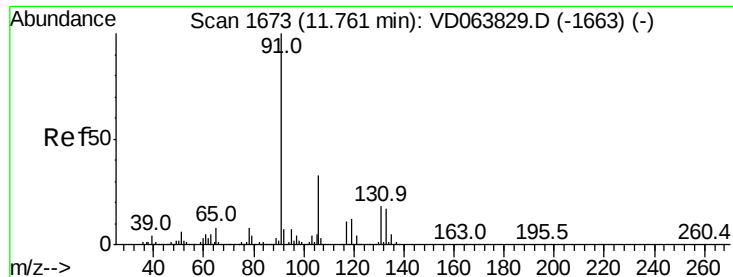
Tot Ion:112 Resp: 147421
Ion Ratio Lower Upper
112 100
114 30.5 24.2 36.2



#66
1,1,1,2-Tetrachloroethane
Concen: 20.426 ug/l
RT: 11.76 min Scan# 1672
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion:131 Resp: 53972
Ion Ratio Lower Upper
131 100
133 94.2 47.4 142.3
119 61.1 31.6 94.8





#67

Ethyl Benzene

Concen: 20.545 ug/l

RT: 11.76 min Scan# 1672

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

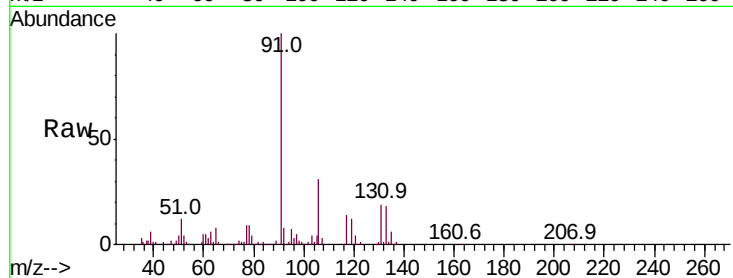
ClientSampleId :

Tot Ion: 91 Resp: 266822

Ion Ratio Lower Upper

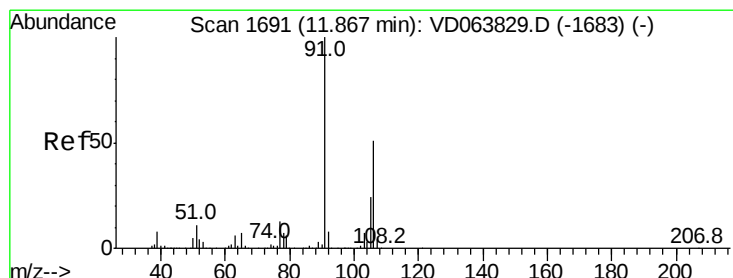
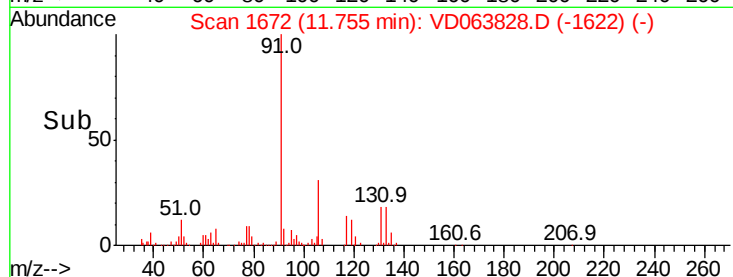
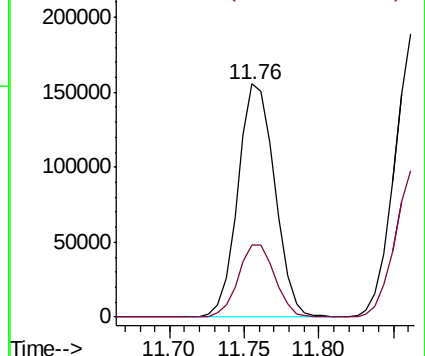
91 100

106 31.1 26.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 40.929 ug/l

RT: 11.87 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VD063828.D

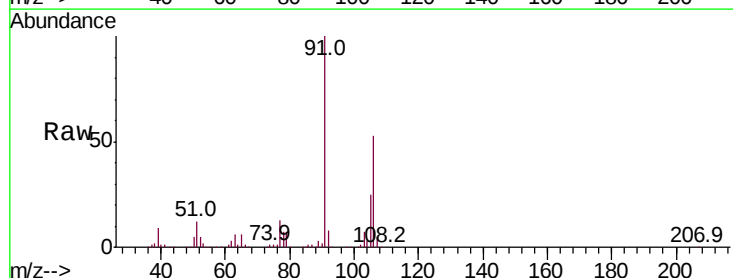
Acq: 25 Sep 2019 17:53

Tgt Ion:106 Resp: 204125

Ion Ratio Lower Upper

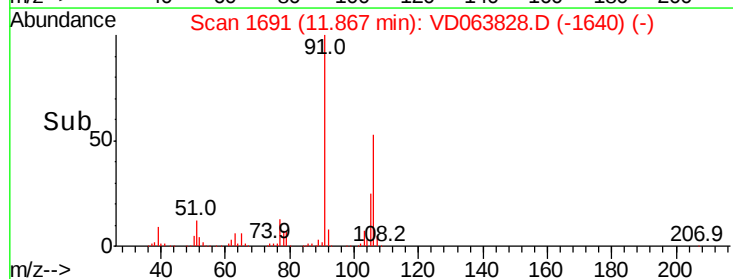
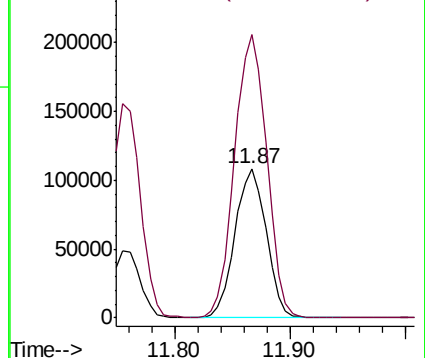
106 100

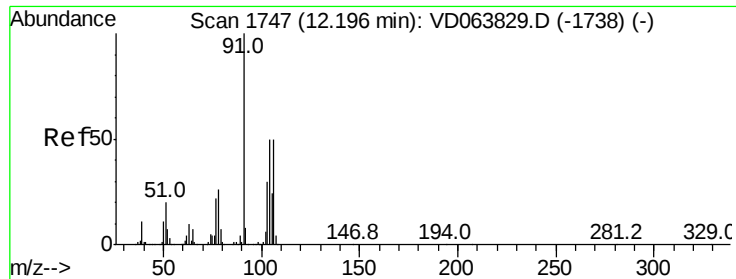
91 195.5 157.6 236.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

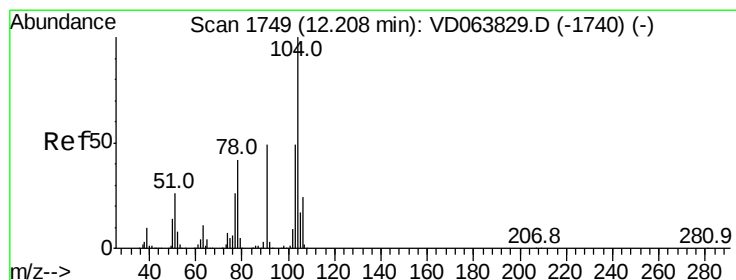
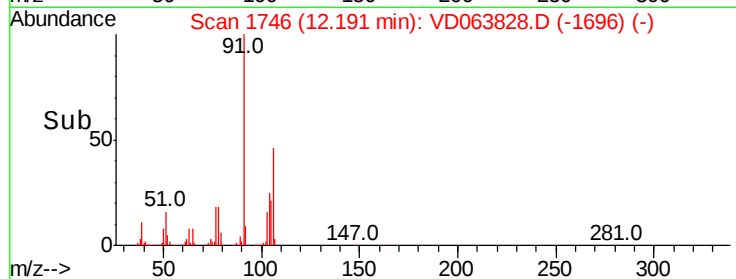
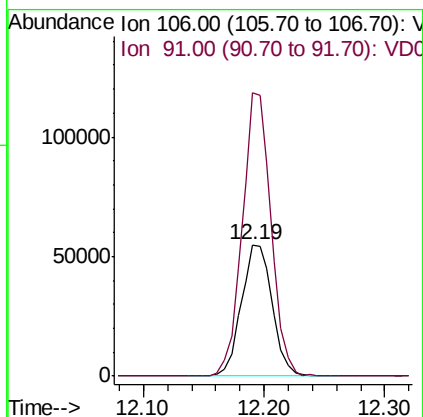
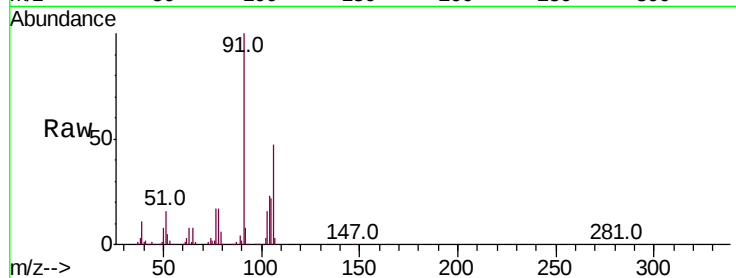




#69
o-Xylene
Concen: 20.781 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

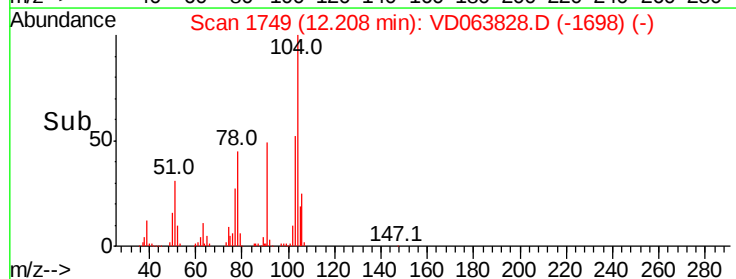
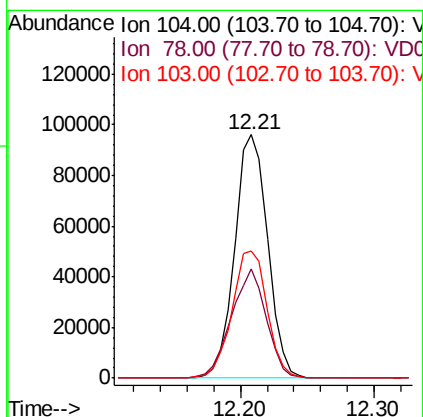
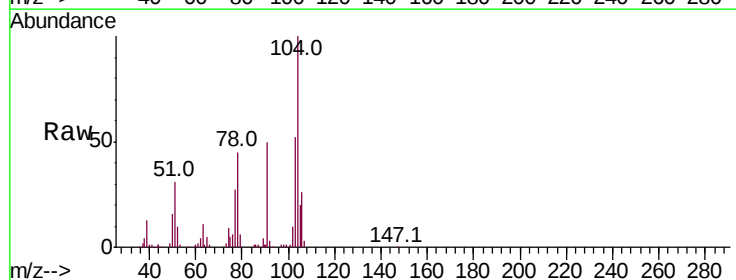
Instrument :
MSVOA_D
ClientSampleId :

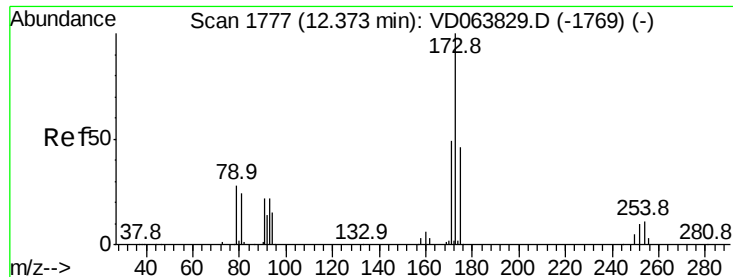
Tot Ion:106 Resp: 97820
Ion Ratio Lower Upper
106 100
91 200.4 102.4 307.1



#70
Styrene
Concen: 20.610 ug/l
RT: 12.21 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion:104 Resp: 164192
Ion Ratio Lower Upper
104 100
78 47.6 37.3 55.9
103 55.9 44.2 66.4





#71

Bromoform

Concen: 19.995 ug/l

RT: 12.37 min Scan# 1777

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

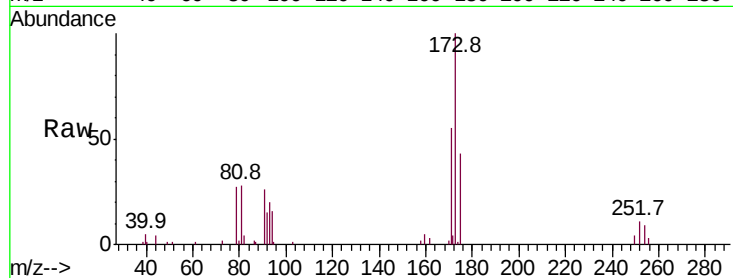
Tot Ion:173 Resp: 29349

Ion Ratio Lower Upper

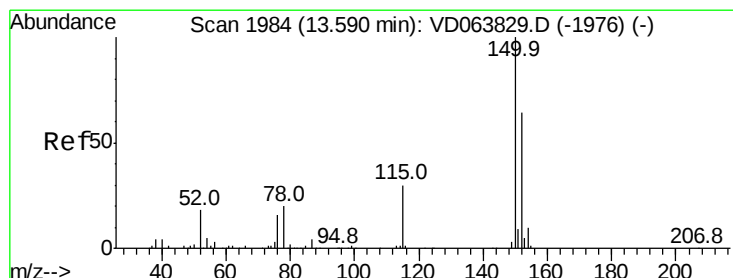
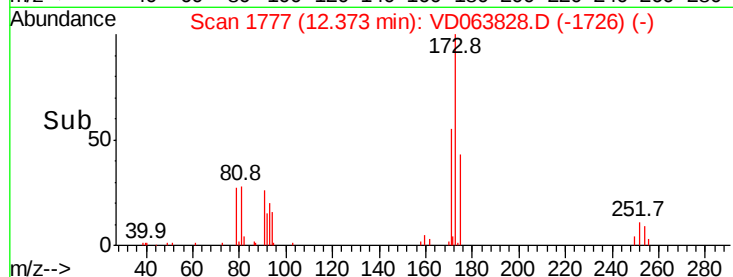
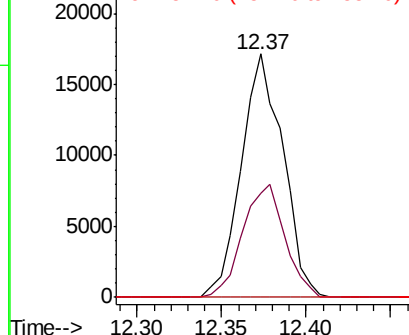
173 100

175 47.0 23.3 69.8

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

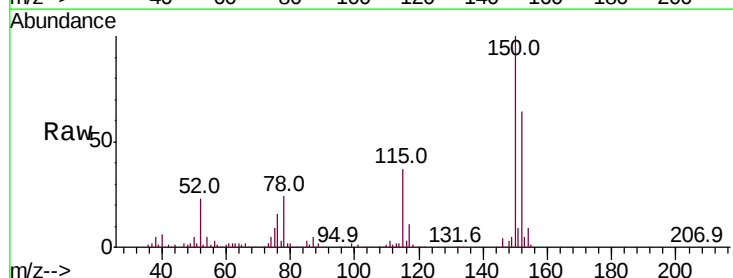
Tgt Ion:152 Resp: 182001

Ion Ratio Lower Upper

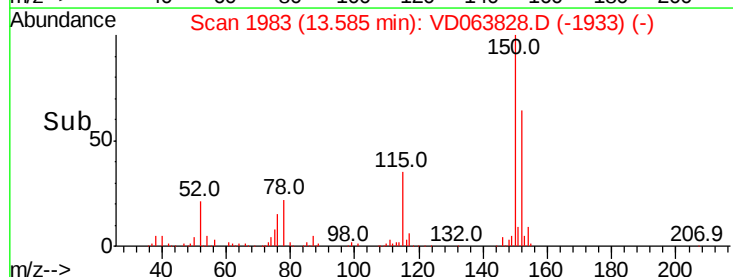
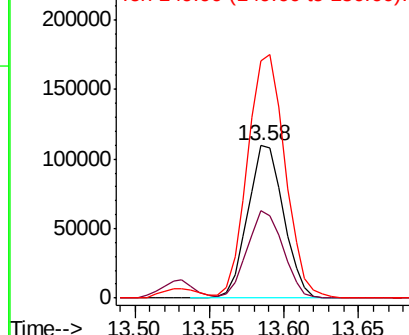
152 100

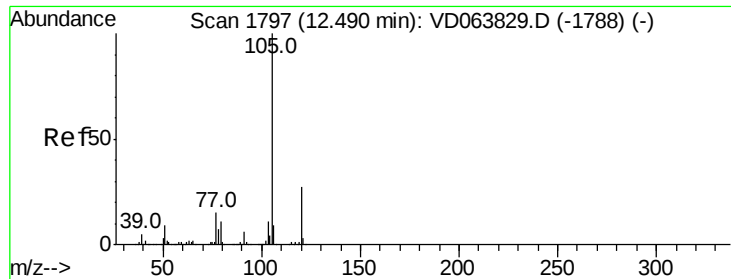
115 57.3 27.0 81.0

150 168.2 0.0 344.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.866 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

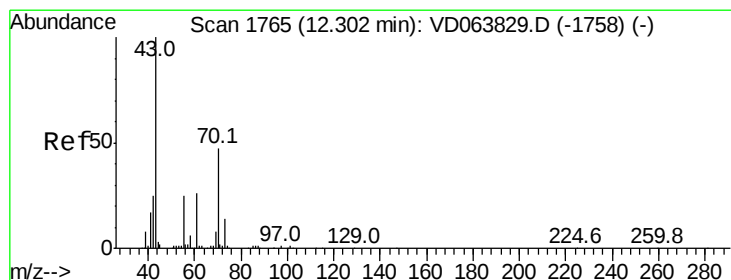
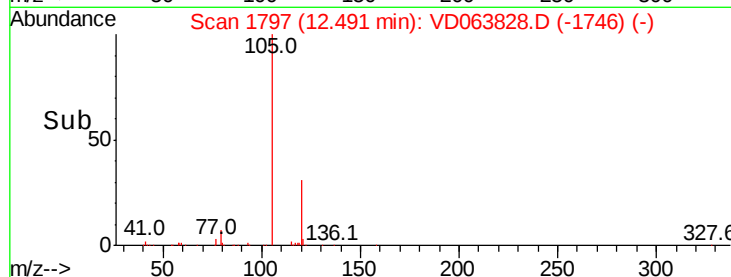
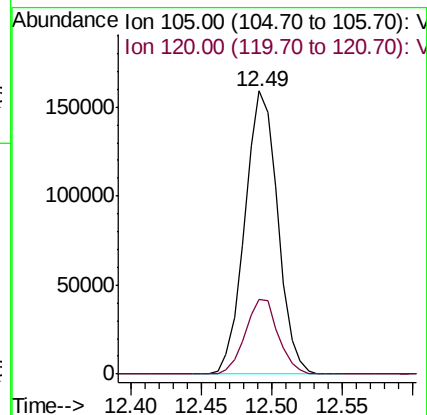
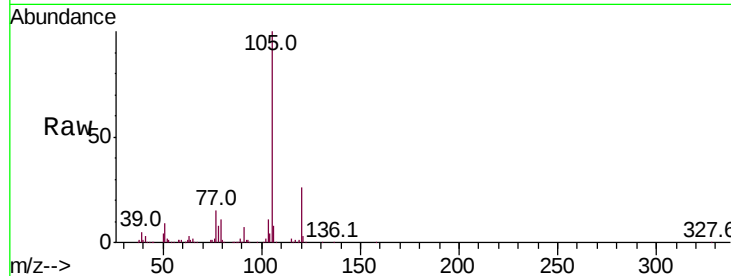
ClientSampleId :

Tot Ion:105 Resp: 259391

Ion Ratio Lower Upper

105 100

120 26.5 13.7 41.0



#74

N-ethyl acetate

Concen: 21.733 ug/l

RT: 12.30 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Tgt Ion: 43 Resp: 59142

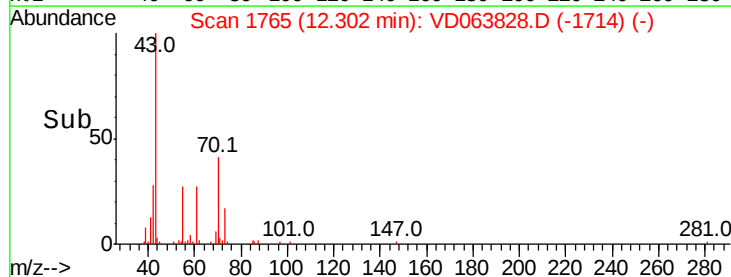
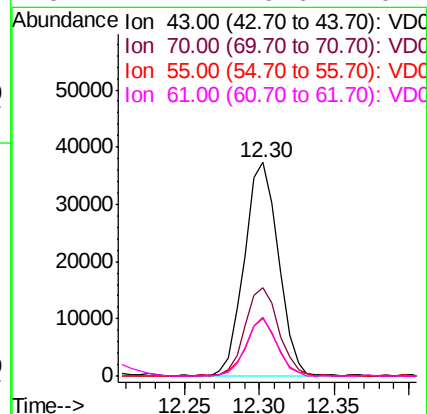
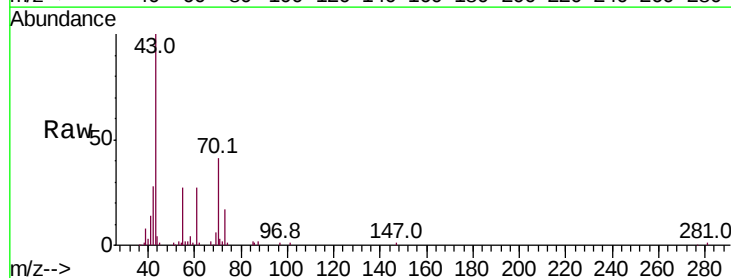
Ion Ratio Lower Upper

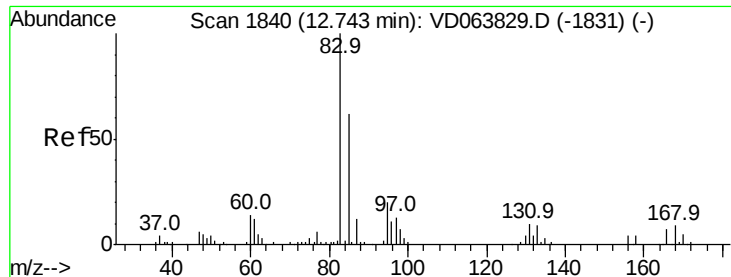
43 100

70 40.6 35.0 52.6

55 24.8 19.8 29.6

61 24.2 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.744 ug/l

RT: 12.74 min Scan# 1840

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

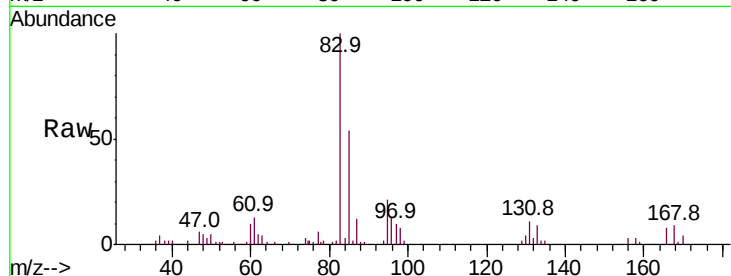
Tot Ion: 83 Resp: 45056

Ion Ratio Lower Upper

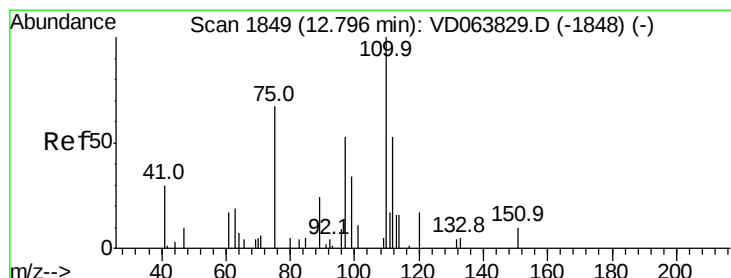
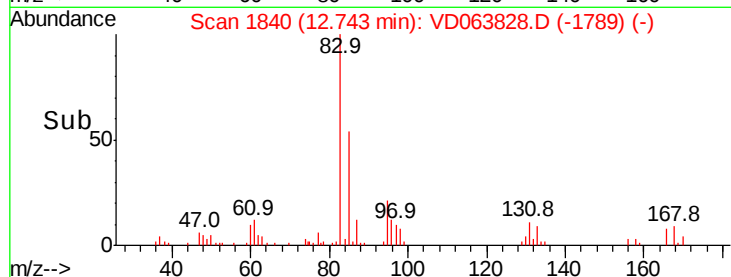
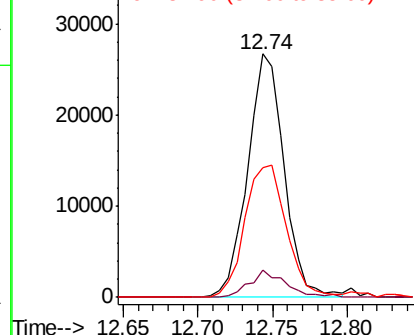
83 100

131 10.9 5.6 16.8

85 62.3 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 51.153 ug/l

RT: 12.80 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VD063828.D

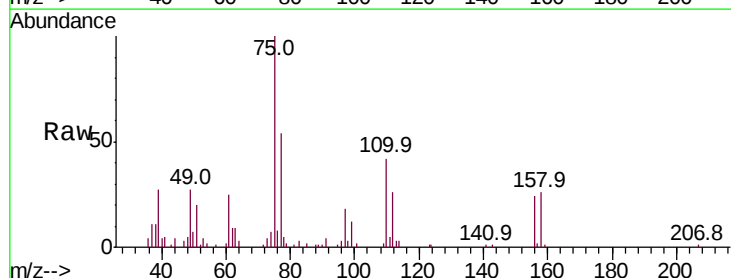
Acq: 25 Sep 2019 17:53

Tgt Ion: 75 Resp: 59043

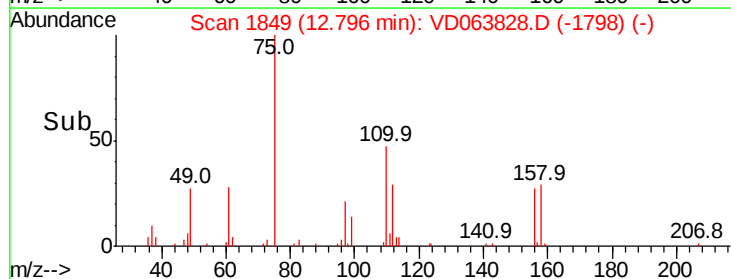
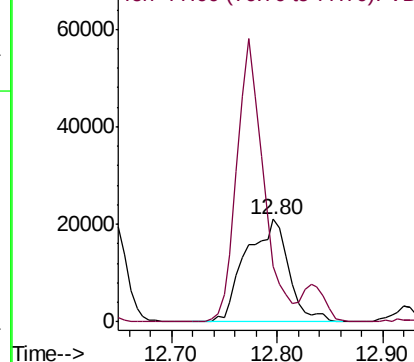
Ion Ratio Lower Upper

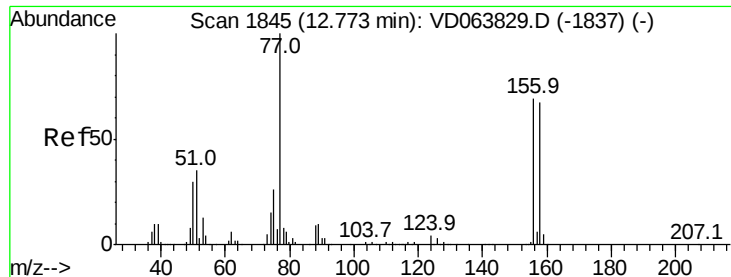
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 20.569 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

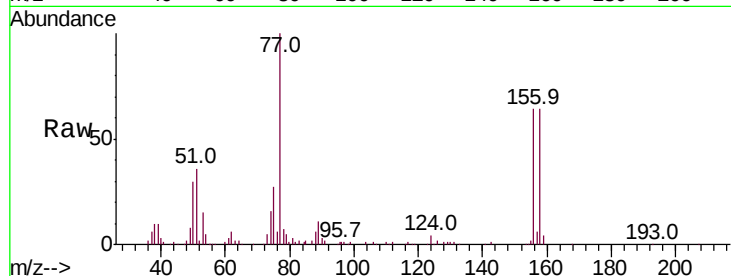
ClientSampleId :

Tot Ion:156 Resp: 61451

Ion	Ratio	Lower	Upper
156	100		
77	164.9	79.8	239.4
158	97.3	47.9	143.7

77 164.9 79.8 239.4

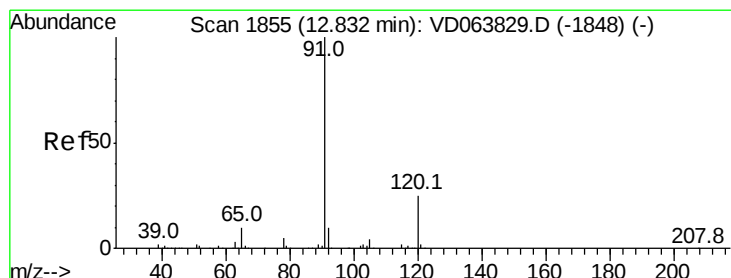
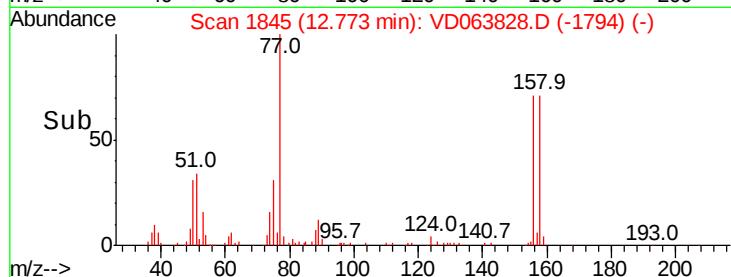
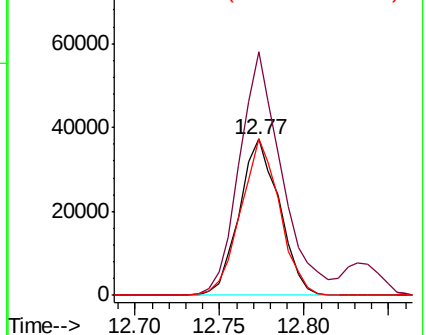
158 97.3 47.9 143.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.259 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VD063828.D

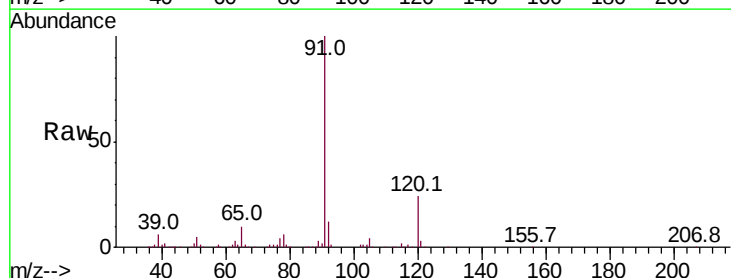
Acq: 25 Sep 2019 17:53

Tgt Ion: 91 Resp: 310914

Ion	Ratio	Lower	Upper
91	100		
120	23.4	12.5	37.5

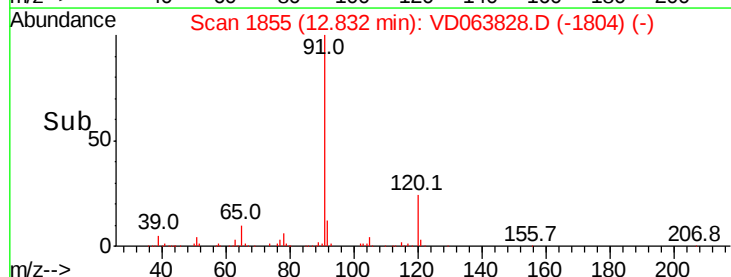
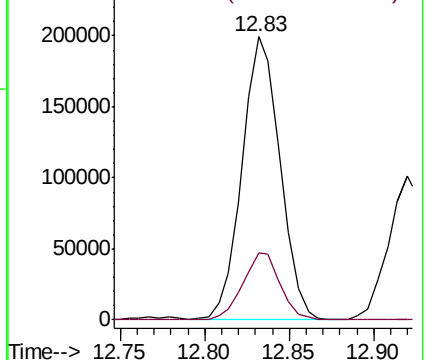
91 100

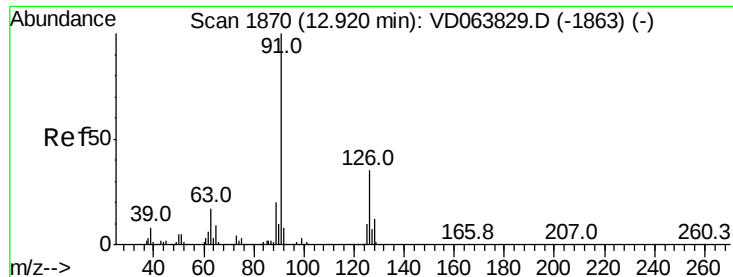
120 23.4 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.111 ug/l

RT: 12.92 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

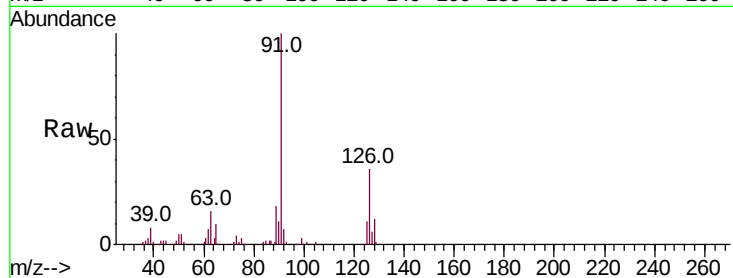
ClientSampleId :

Tot Ion: 91 Resp: 166536

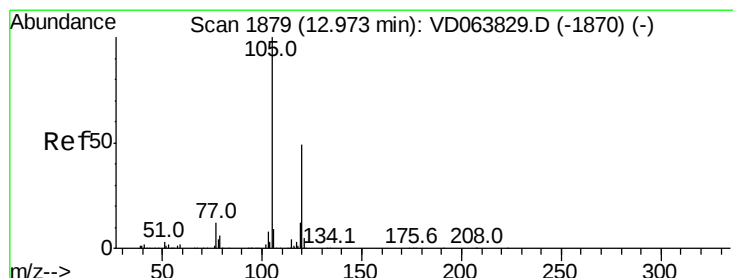
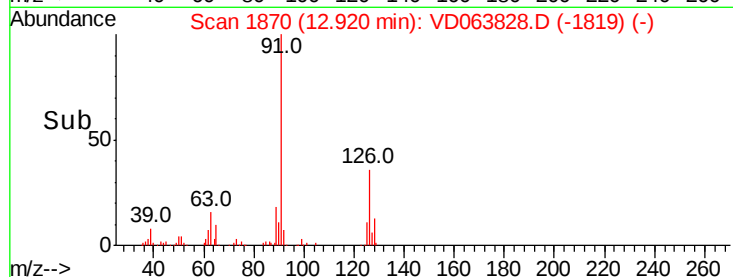
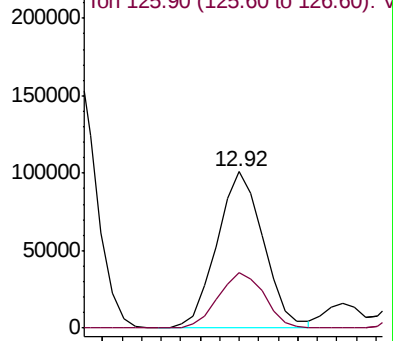
Ion Ratio Lower Upper

91 100

126 35.6 17.8 53.5



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 20.874 ug/l

RT: 12.97 min Scan# 1879

Delta R.T. 0.00 min

Lab File: VD063828.D

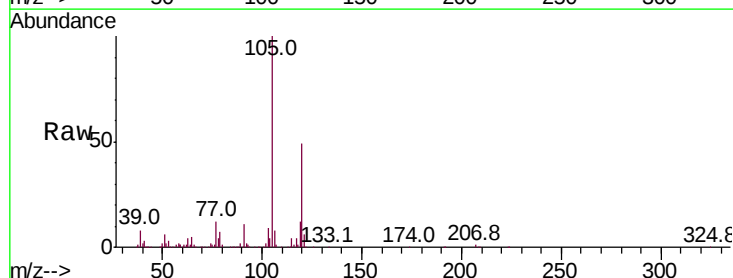
Acq: 25 Sep 2019 17:53

Tgt Ion:105 Resp: 216315

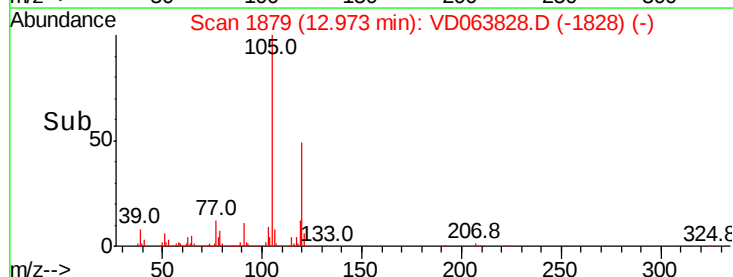
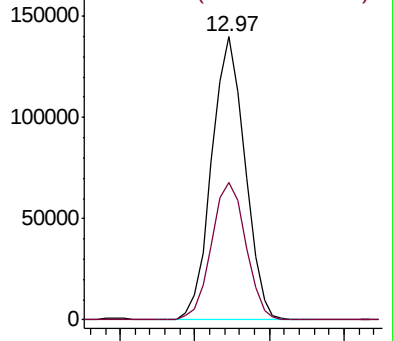
Ion Ratio Lower Upper

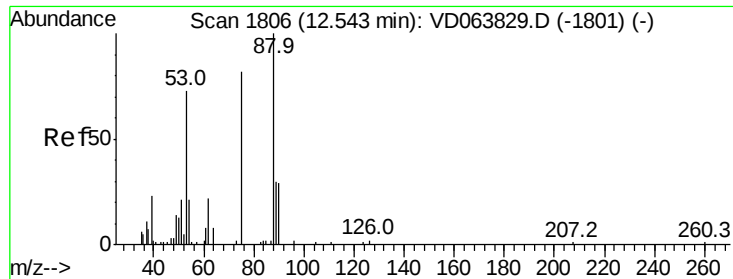
105 100

120 50.0 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.799 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

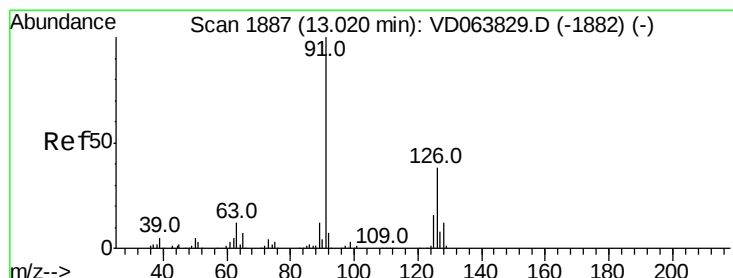
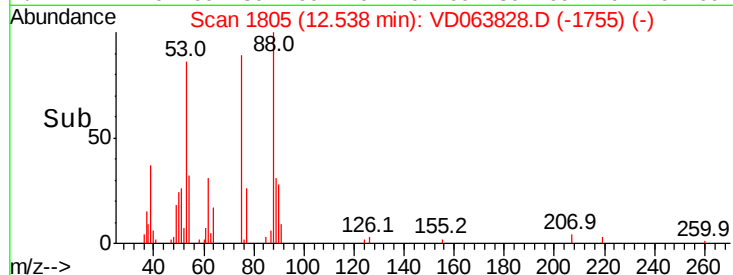
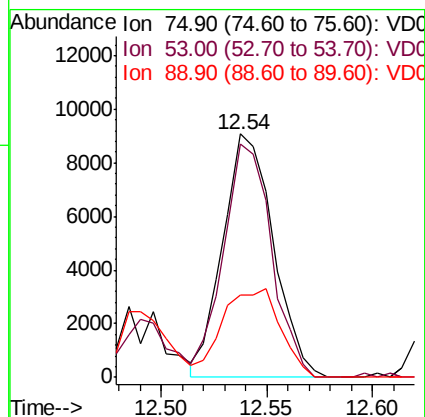
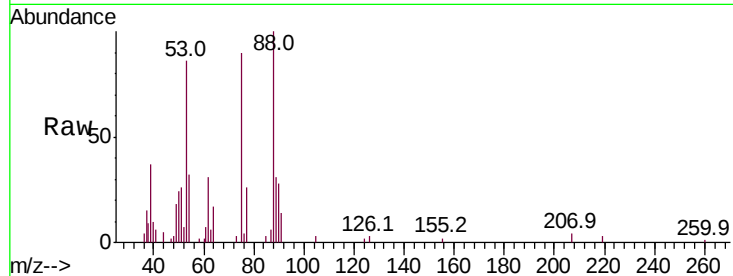
Tot Ion: 75 Resp: 15063

Ion Ratio Lower Upper

75 100

53 91.2 76.5 114.7

89 41.5 37.0 55.6



#82

4-Chlorotoluene

Concen: 21.341 ug/l

RT: 13.02 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VD063828.D

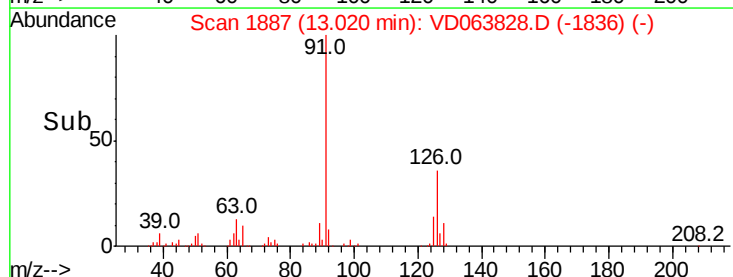
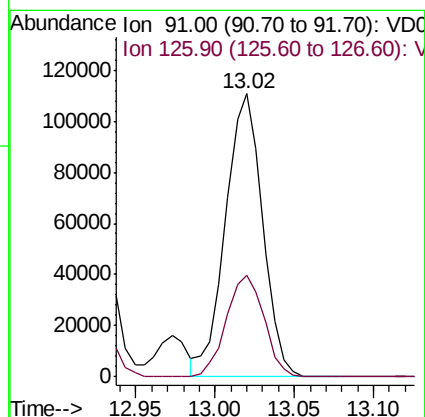
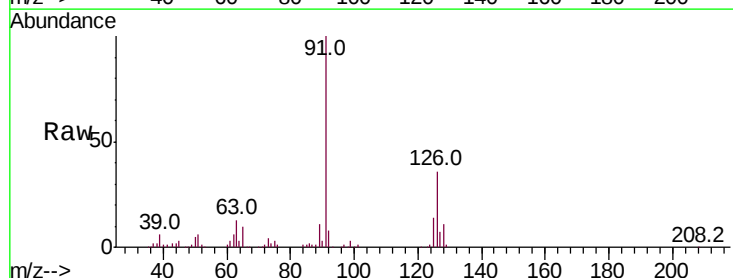
Acq: 25 Sep 2019 17:53

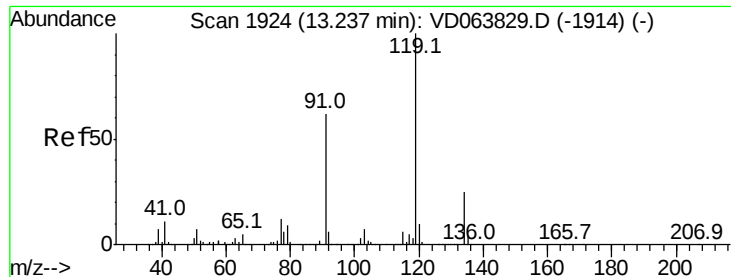
Tgt Ion: 91 Resp: 179584

Ion Ratio Lower Upper

91 100

126 36.4 18.6 55.6





#83

tert-Butylbenzene

Concen: 20.756 ug/l

RT: 13.24 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

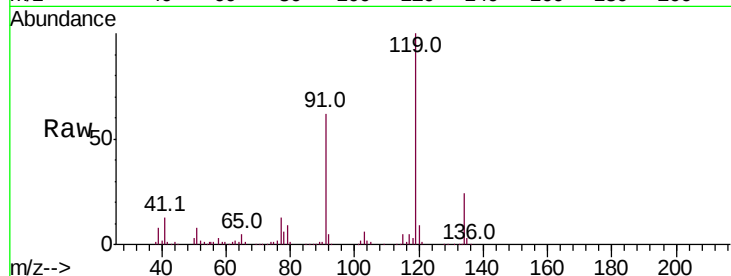
Tot Ion:119 Resp: 187947

Ion Ratio Lower Upper

119 100

91 65.0 30.8 92.3

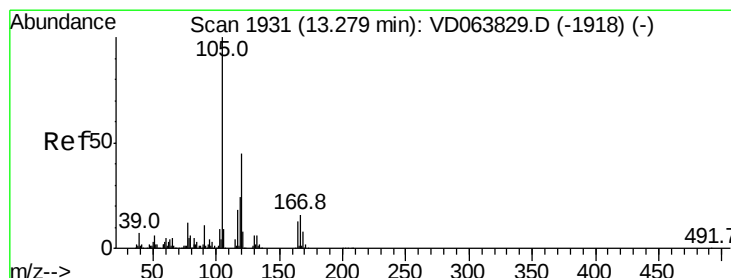
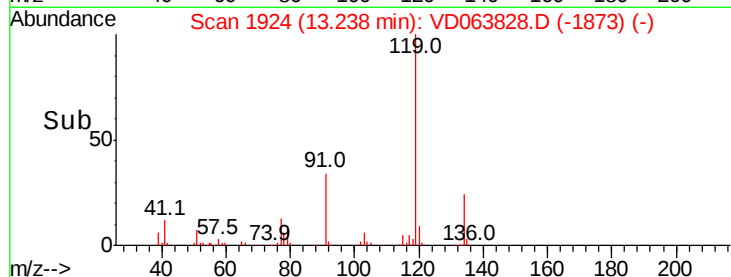
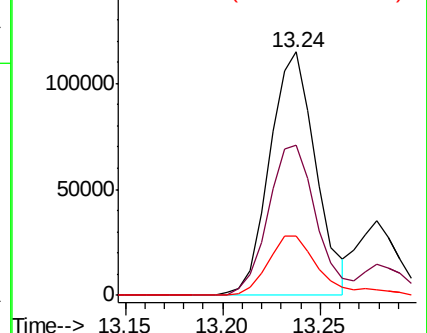
134 27.6 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.529 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VD063828.D

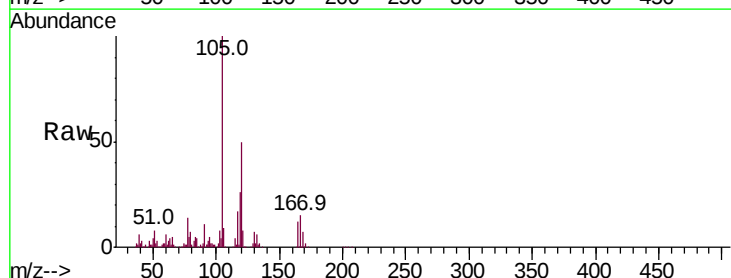
Acq: 25 Sep 2019 17:53

Tgt Ion:105 Resp: 215978

Ion Ratio Lower Upper

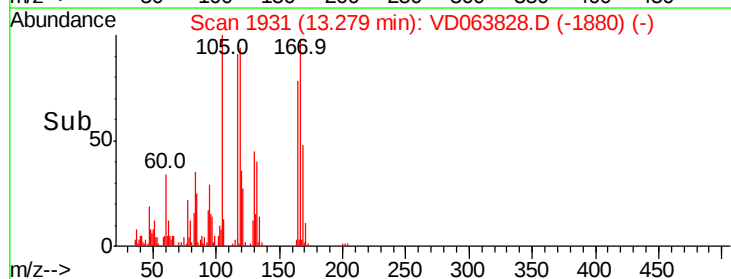
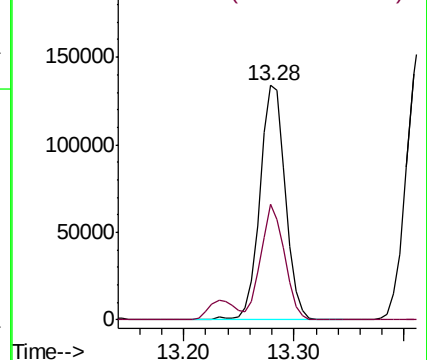
105 100

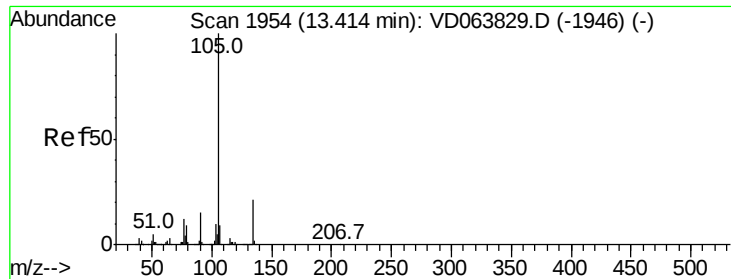
120 46.0 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.661 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

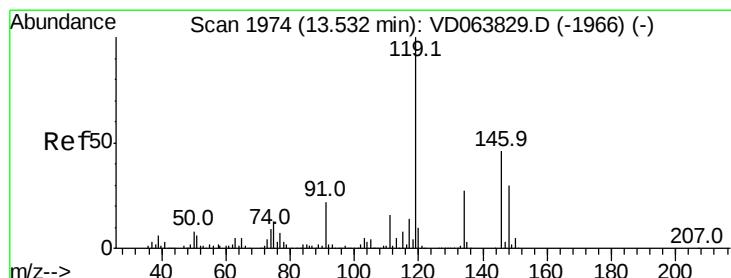
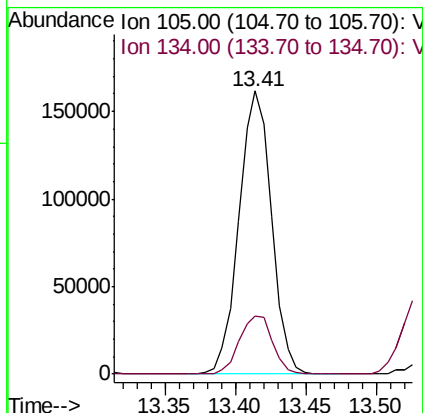
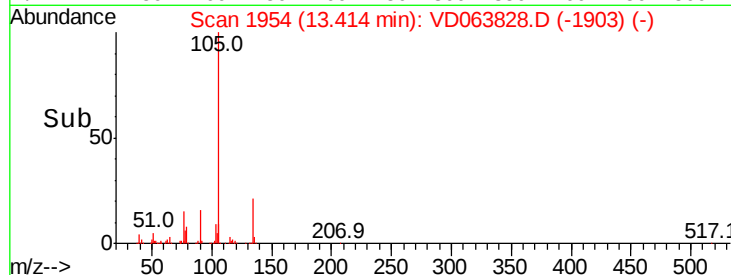
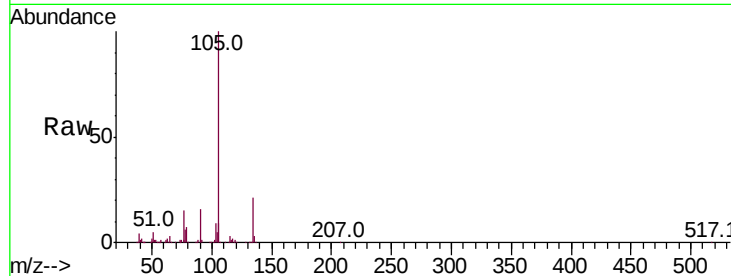
ClientSampleId :

Tot Ion:105 Resp: 260321

Ion Ratio Lower Upper

105 100

134 21.2 10.7 31.9



#86

p-Isopropyltoluene

Concen: 20.595 ug/l

RT: 13.53 min Scan# 1974

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

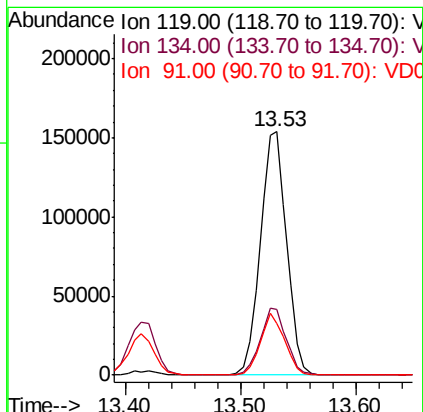
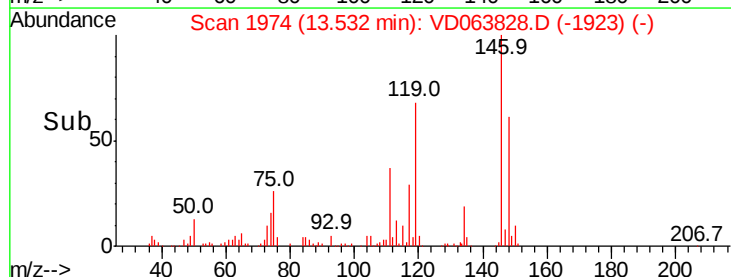
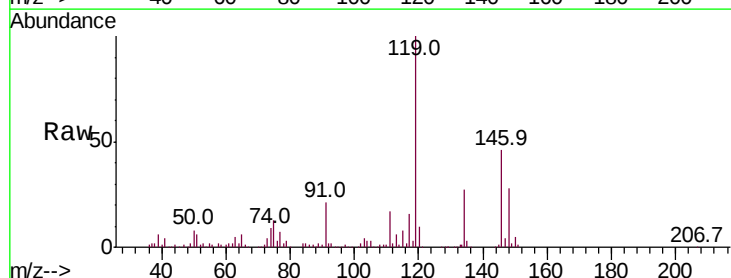
Tgt Ion:119 Resp: 243711

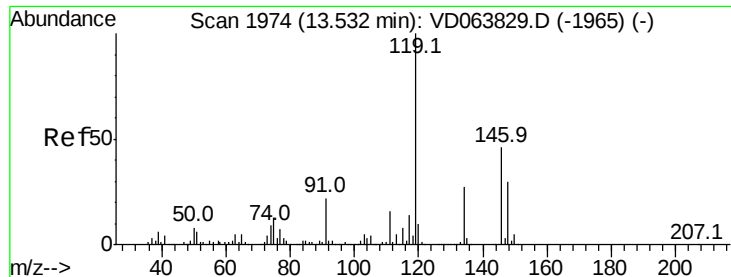
Ion Ratio Lower Upper

119 100

134 27.2 13.2 39.6

91 23.7 11.4 34.1

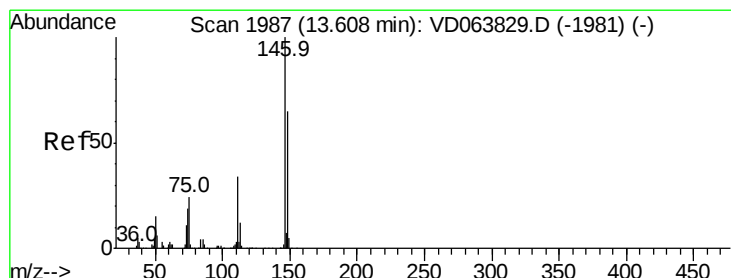
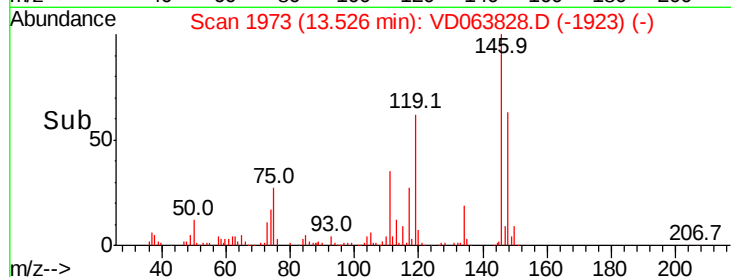
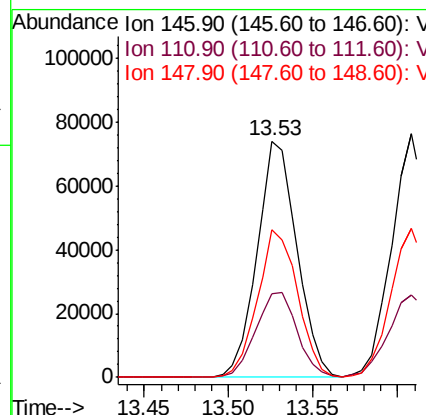
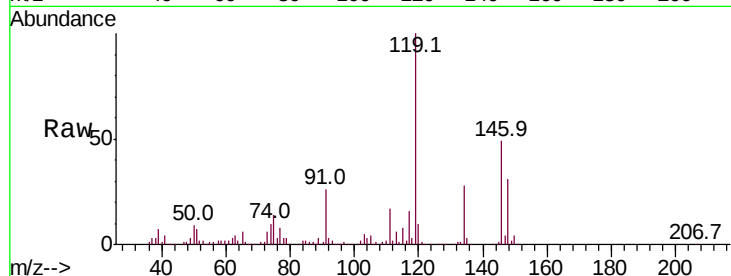




#87
 1,3-Dichlorobenzene
 Concen: 20.598 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.01 min
 Lab File: VD063828.D
 Acq: 25 Sep 2019 17:53

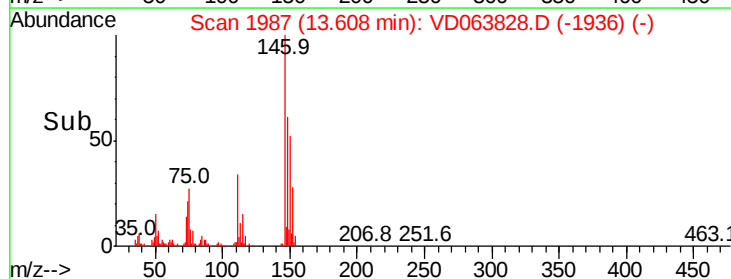
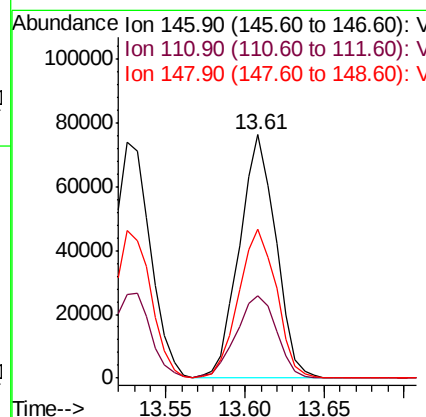
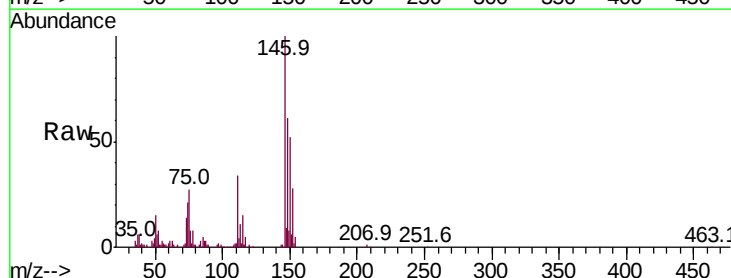
Instrument :
 MSVOA_D
 ClientSampled :

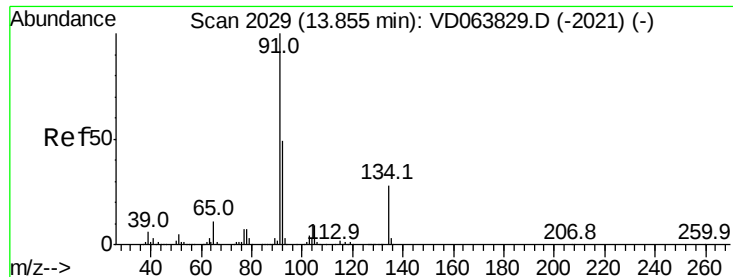
Tot Ion:146 Resp: 120825
 Ion Ratio Lower Upper
 146 100
 111 37.4 18.3 54.8
 148 63.0 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 20.923 ug/l
 RT: 13.61 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VD063828.D
 Acq: 25 Sep 2019 17:53

Tgt Ion:146 Resp: 122063
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.5 55.5
 148 63.3 33.0 99.0





#89

n-Butylbenzene

Concen: 21.028 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

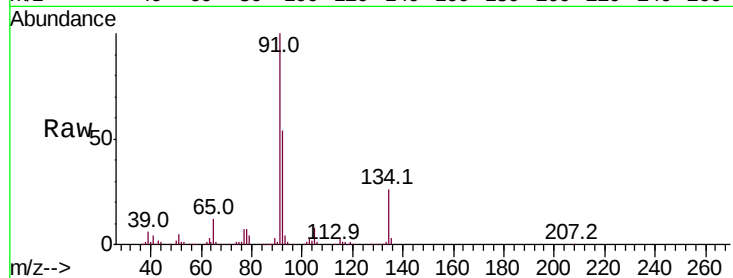
Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 91 Resp: 236829

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.1	78.2
134	25.7	14.0	41.9

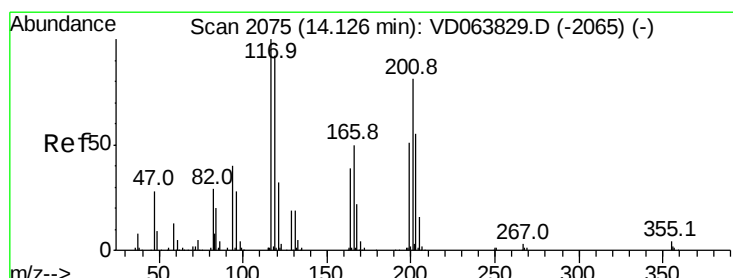
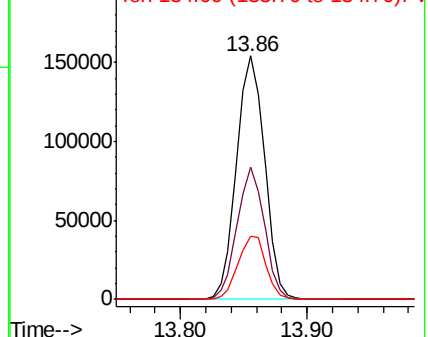
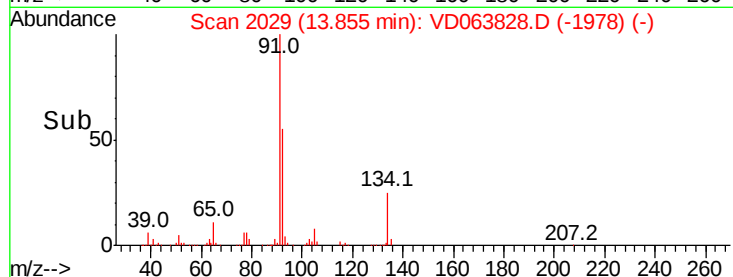


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.595 ug/l

RT: 14.13 min Scan# 2075

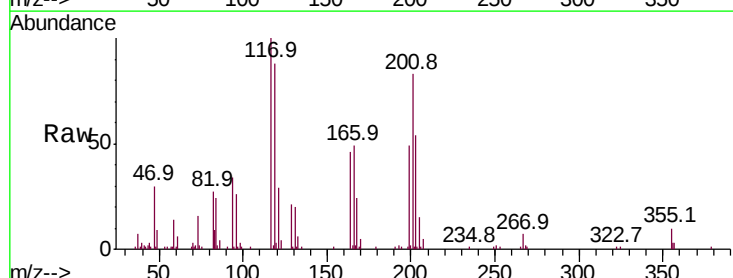
Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Tgt Ion: 117 Resp: 45141

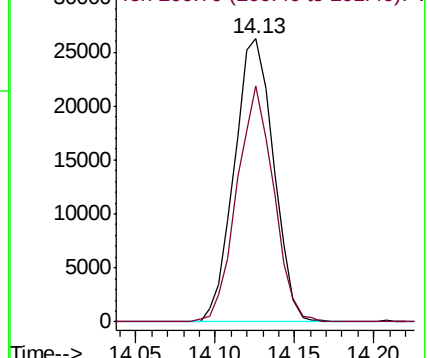
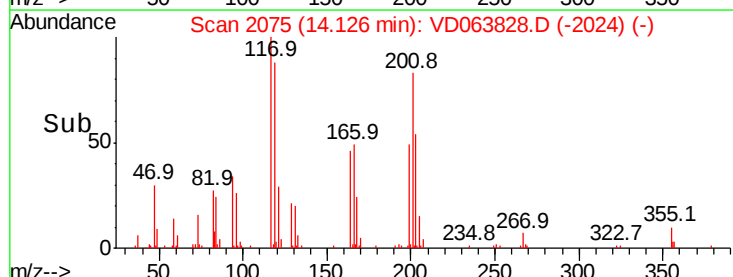
Ion	Ratio	Lower	Upper
117	100		
201	77.8	39.3	117.8

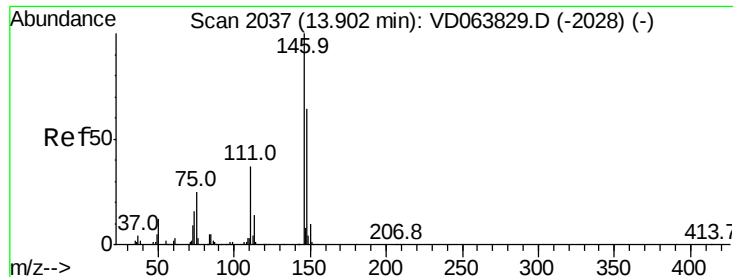


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.378 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampled :

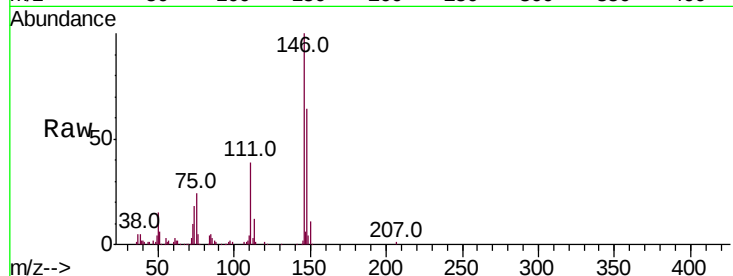
Tot Ion:146 Resp: 107565

Ion Ratio Lower Upper

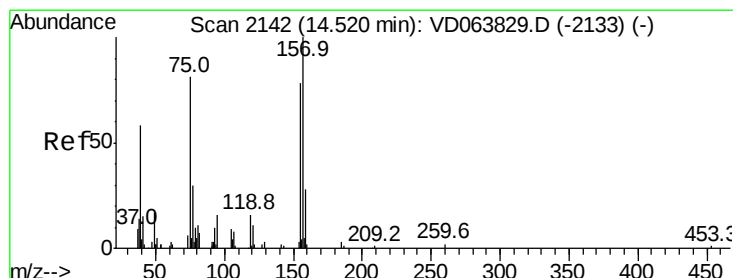
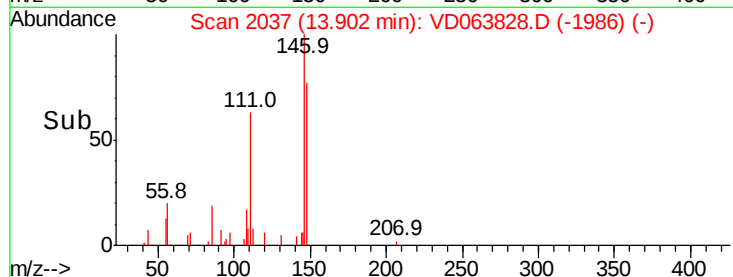
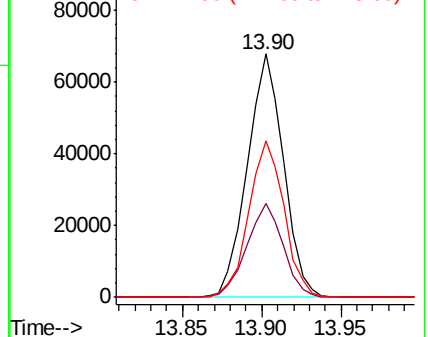
146 100

111 38.7 18.9 56.7

148 63.0 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.007 ug/l

RT: 14.51 min Scan# 2141

Delta R.T. -0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

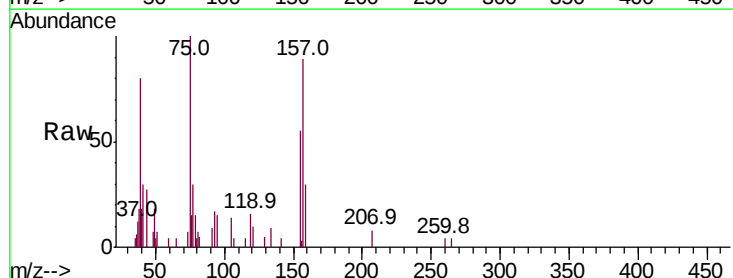
Tgt Ion: 75 Resp: 7694

Ion Ratio Lower Upper

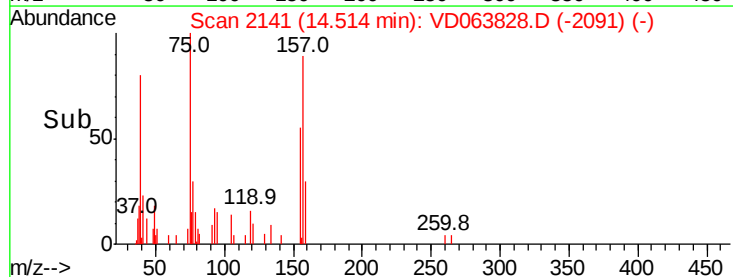
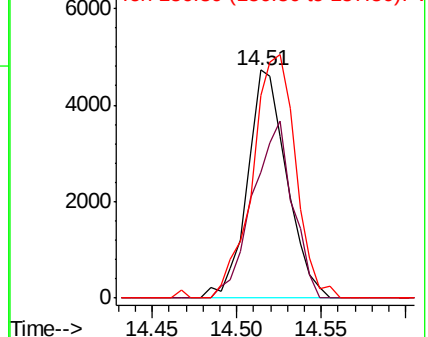
75 100

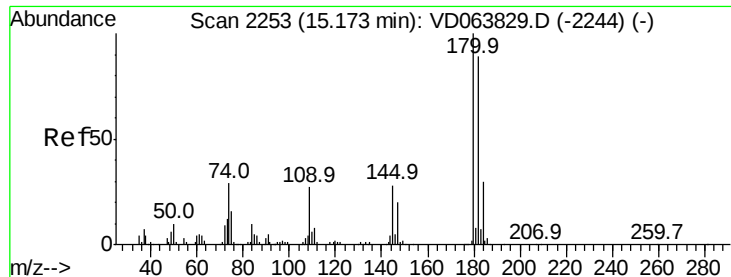
155 78.5 48.0 144.0

157 116.7 63.2 189.8



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 19.460 ug/l

RT: 15.18 min Scan# 2254

Delta R.T. 0.01 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

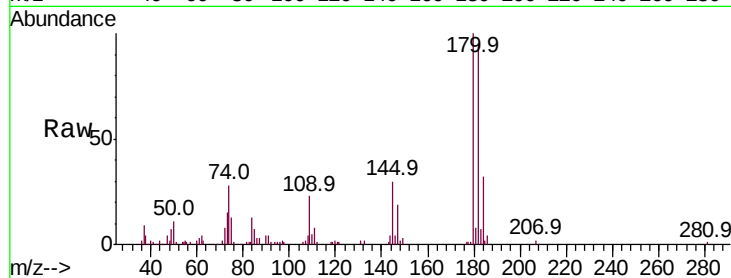
Tot Ion:180 Resp: 74356

Ion Ratio Lower Upper

180 100

182 103.2 46.5 139.5

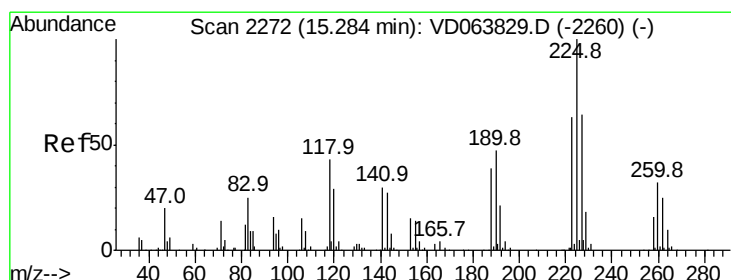
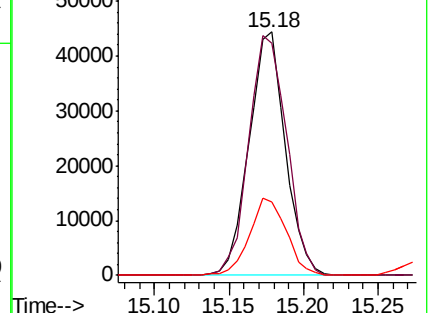
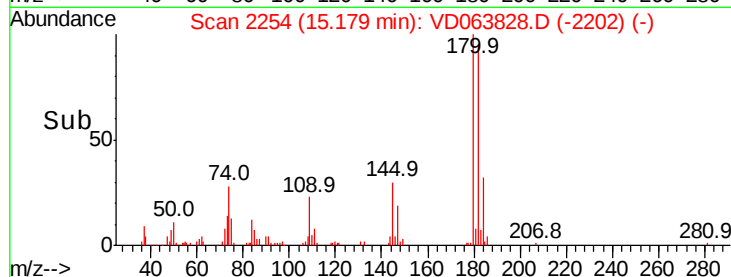
145 32.1 14.4 43.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 20.158 ug/l

RT: 15.28 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VD063828.D

Acq: 25 Sep 2019 17:53

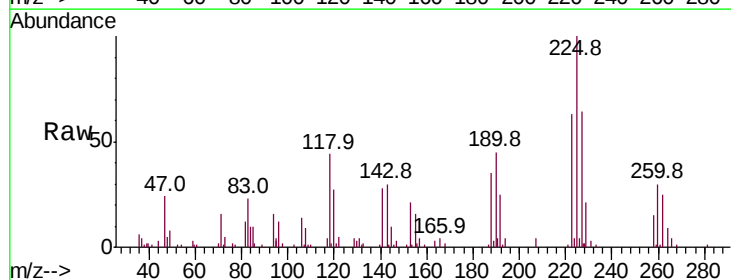
Tgt Ion:225 Resp: 43641

Ion Ratio Lower Upper

225 100

223 65.4 32.8 98.3

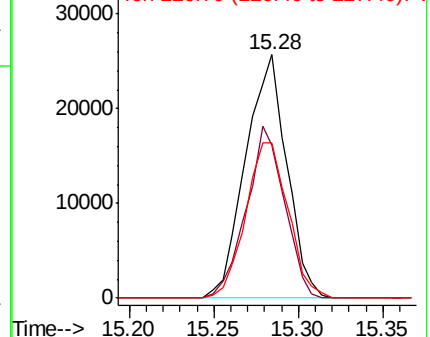
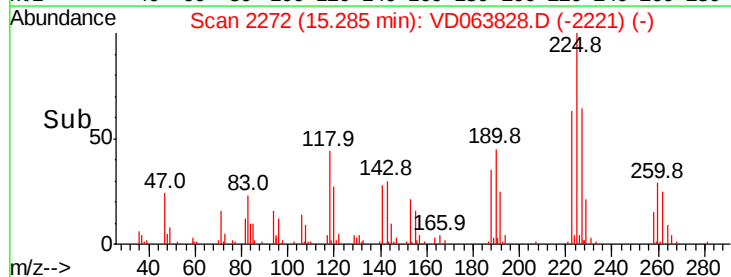
227 65.9 32.8 98.3

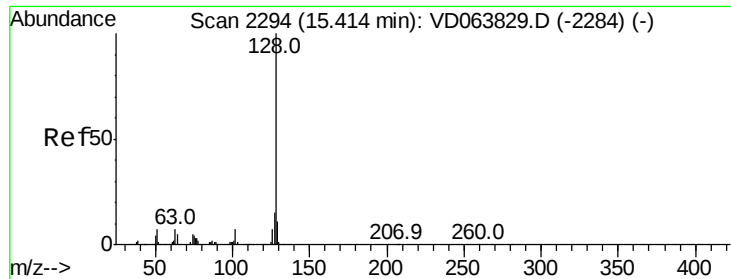


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

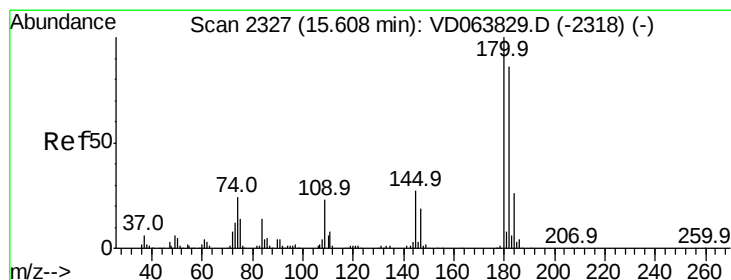
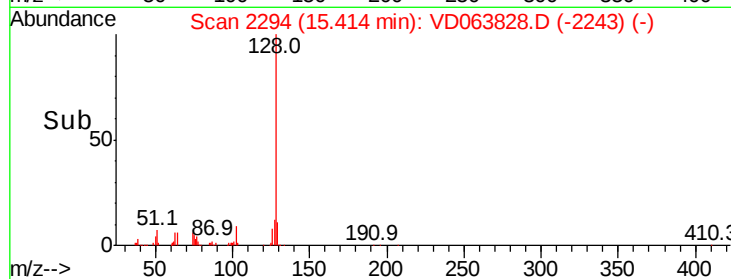
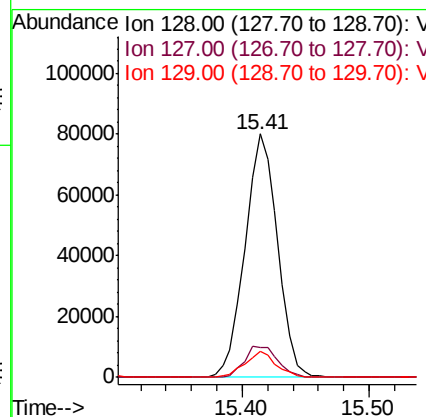
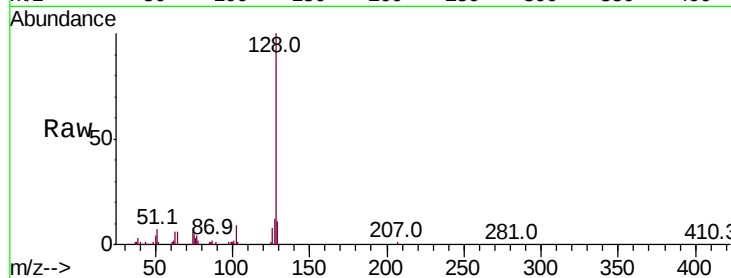




#95
Naphthalene
Concen: 20.778 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:128 Resp: 142574
Ion Ratio Lower Upper
128 100
127 13.1 10.8 16.2
129 10.2 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 20.107 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD063828.D
Acq: 25 Sep 2019 17:53

Tgt Ion:180 Resp: 68113
Ion Ratio Lower Upper
180 100
182 94.2 46.6 139.7
145 31.1 14.5 43.5

