

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121318\
 Data File : VD060555.D
 Acq On : 13 Dec 2018 12:28
 Operator : VA/AP
 Sample : VD1213SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:25:34 AM

Quant Time: Dec 14 01:28:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1657540	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.43	114	2332032	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1840902	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	936224	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	567635	48.31	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.62%	
35) Dibromofluoromethane	6.31	113	830184	48.47	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.94%	
50) Toluene-d8	9.44	98	2452142	49.47	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.41	95	851210	47.99	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	95.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.61	85	430247	23.836	ug/l	98
3) Chloromethane	1.77	50	388138	22.791	ug/l	99
4) Vinyl Chloride	1.87	62	315997	23.249	ug/l	98
5) Bromomethane	2.16	94	49172	14.461	ug/l	85
6) Chloroethane	2.27	64	74487	15.926	ug/l	100
7) Trichlorofluoromethane	2.51	101	322116	20.525	ug/l	100
8) Diethyl Ether	2.84	74	58581	21.610	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.09	101	219230	21.529	ug/l	99
10) Methyl Iodide	3.25	142	246668	20.723	ug/l	100
11) Tert butyl alcohol	3.98	59	48859	102.363	ug/l	97
12) 1,1-Dichloroethene	3.08	96	178239	21.514	ug/l	95
13) Acrolein	2.99	56	50127	96.112	ug/l	91
14) Allyl chloride	3.54	41	344417	21.911	ug/l	97
15) Acrylonitrile	4.09	53	293296	108.219	ug/l	95
16) Acetone	3.16	43	189472	100.612	ug/l	98
17) Carbon Disulfide	3.32	76	565619	21.018	ug/l	100
18) Methyl Acetate	3.55	43	94784	21.177	ug/l	94
19) Methyl tert-butyl Ether	4.13	73	493126	21.463	ug/l	99
20) Methylene Chloride	3.72	84	398453	20.395	ug/l	97
21) trans-1,2-Dichloroethene	4.10	96	381989	21.196	ug/l	98
22) Diisopropyl ether	4.84	45	1205692	21.363	ug/l	95
23) Vinyl Acetate	4.79	43	2989498	106.912	ug/l	99
24) 1,1-Dichloroethane	4.75	63	626642	21.373	ug/l	99
25) 2-Butanone	5.61	43	388024	104.729	ug/l	100
26) 2,2-Dichloropropane	5.58	77	495847	21.892	ug/l	99
27) cis-1,2-Dichloroethene	5.58	96	396557	21.642	ug/l	97
28) Bromochloromethane	5.92	49	248661	19.145	ug/l	92
29) Tetrahydrofuran	5.95	42	233824	111.447	ug/l	97
30) Chloroform	6.09	83	624560	21.144	ug/l	99
31) Cyclohexane	6.36	56	588623	21.277	ug/l	97
32) 1,1,1-Trichloroethane	6.28	97	518494	21.352	ug/l	97
36) 1,1-Dichloropropene	6.51	75	475611	20.865	ug/l	99
37) Ethyl Acetate	5.69	43	201354	20.368	ug/l	98
38) Carbon Tetrachloride	6.49	117	429550	20.990	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	557489	21.453	ug/l	99
40) Benzene	6.78	78	1245776	21.384	ug/l	99
41) Methacrylonitrile	5.91	41	97378m	18.273	ug/l	
42) 1,2-Dichloroethane	6.88	62	317680	21.447	ug/l	99
43) Isopropyl Acetate	8.33	43	262288	21.493	ug/l #	99
44) Trichloroethene	7.73	130	366189	21.033	ug/l	97
45) 1,2-Dichloropropane	8.08	63	300188	20.834	ug/l	99
46) Dibromomethane	8.20	93	173619	20.856	ug/l	98
47) Bromodichloromethane	8.48	83	417732	21.148	ug/l	98
48) Methyl methacrylate	8.23	41	163400	22.629	ug/l	97
49) 1,4-Dioxane	8.22	88	29304	447.776	ug/l #	90
51) 4-Methyl-2-Pentanone	9.32	43	810717	106.799	ug/l	100
52) Toluene	9.53	92	789722	21.688	ug/l	98
53) t-1,3-Dichloropropene	9.90	75	350686	21.607	ug/l	97
54) cis-1,3-Dichloropropene	9.09	75	454982	21.336	ug/l	100
55) 1,1,2-Trichloroethane	10.17	97	213058	21.011	ug/l	99
56) Ethyl methacrylate	10.01	69	195309	21.282	ug/l	99
57) 1,3-Dichloropropane	10.36	76	330459	21.082	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.91	63	602401	109.706	ug/l	99
59) 2-Hexanone	10.47	43	573363	108.060	ug/l	97
60) Dibromochloromethane	10.62	129	269139	21.229	ug/l	98
61) 1,2-Dibromoethane	10.74	107	219761	21.266	ug/l	98
64) Tetrachloroethene	10.24	164	339526	20.829	ug/l	99
65) Chlorobenzene	11.30	112	838534	21.531	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.41	131	278999	22.226	ug/l	96
67) Ethyl Benzene	11.42	91	1474512	22.197	ug/l	99
68) m/p-Xylenes	11.56	106	1081350	44.000	ug/l	97
69) o-Xylene	11.92	106	513770	21.936	ug/l	93
70) Styrene	11.94	104	823674	21.910	ug/l	95
71) Bromoform	12.11	173	168298	20.096	ug/l #	94
73) Isopropylbenzene	12.26	105	1402897	21.176	ug/l	99
74) N-amyl acetate	12.13	43	342869	21.414	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.55	83	222381	20.967	ug/l	100
76) 1,2,3-Trichloropropane	12.59	75	220554	20.791	ug/l	99
77) Bromobenzene	12.53	156	370676	21.286	ug/l	95
78) n-propylbenzene	12.63	91	1819147	21.722	ug/l	99
79) 2-Chlorotoluene	12.70	91	989046	21.764	ug/l	100
80) 1,3,5-Trimethylbenzene	12.79	105	1106744	21.862	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.33	75	61714	20.859	ug/l	99
82) 4-Chlorotoluene	12.80	91	1105795	21.665	ug/l	91
83) tert-Butylbenzene	13.03	119	1254302	22.098	ug/l	92
84) 1,2,4-Trimethylbenzene	13.08	105	1134679	21.647	ug/l	99
85) sec-Butylbenzene	13.21	105	1533312	21.674	ug/l	97
86) p-Isopropyltoluene	13.33	119	1198591	21.373	ug/l	96
87) 1,3-Dichlorobenzene	13.30	146	657639	20.857	ug/l	96
88) 1,4-Dichlorobenzene	13.38	146	662067	21.404	ug/l	94
89) n-Butylbenzene	13.63	91	1293556	20.774	ug/l	97
90) Hexachloroethane	13.85	117	291378	20.723	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	570347	22.135	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.21	75	27341	21.275	ug/l	98

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ClientSampleId :
VD1213SBSD01

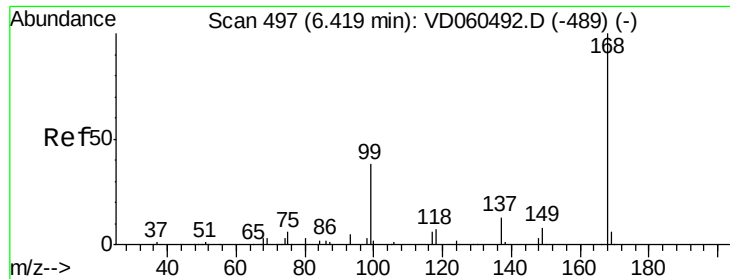
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.77	180	419340	20.818	ug/l	98
94) Hexachlorobutadiene	14.87	225	308498	20.758	ug/l	100
95) Naphthalene	14.96	128	504290	21.044	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	333614	20.786	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion:168 Resp: 1657540

Ion Ratio Lower Upper

168 100

99 47.1

35.6

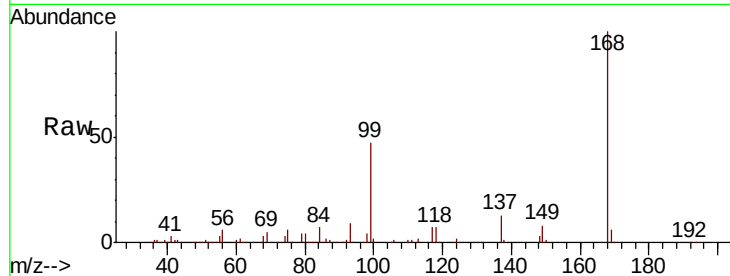
53.4

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12/14/2018 11:25:34 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

6.40

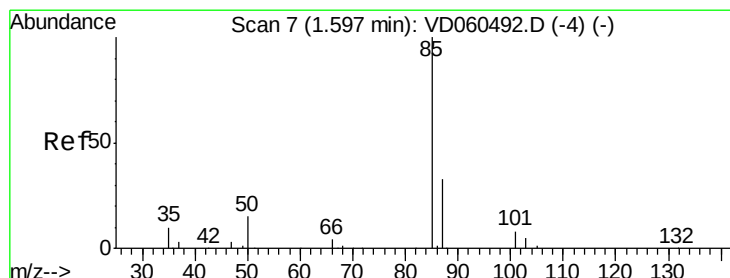
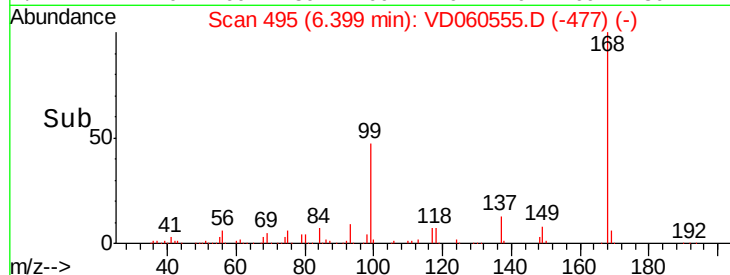
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.836 ug/l

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Tgt Ion: 85 Resp: 430247

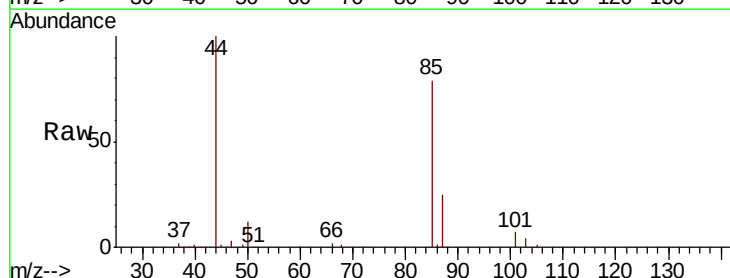
Ion Ratio Lower Upper

85 100

87 31.9

16.7

50.0



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

1.61

200000

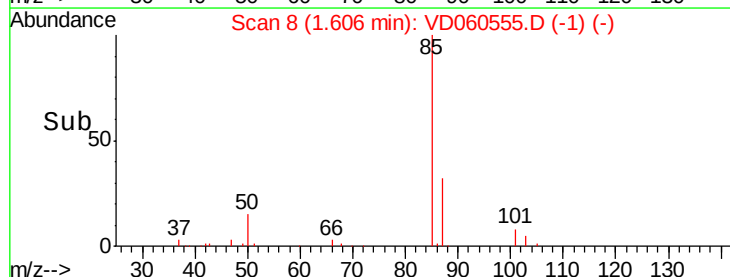
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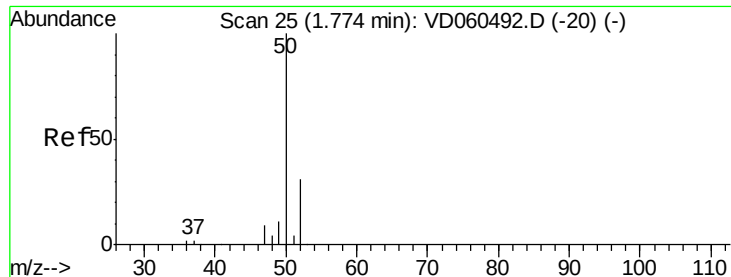
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50000

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Time-->





#3

Chloromethane

Concen: 22.791 ug/l

RT: 1.77 min Scan# 25

Delta R.T. -0.00 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 50 Resp: 388138

Ion Ratio Lower Upper

50 100

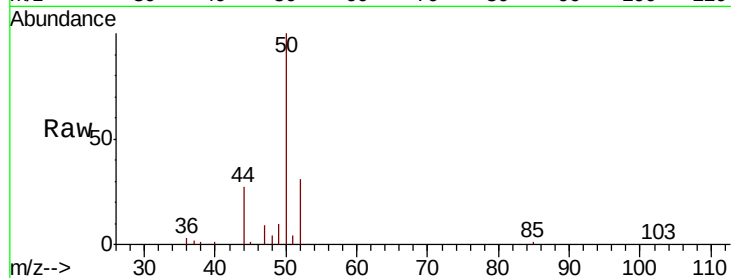
52 31.5 25.0 37.4

Manual Integrations

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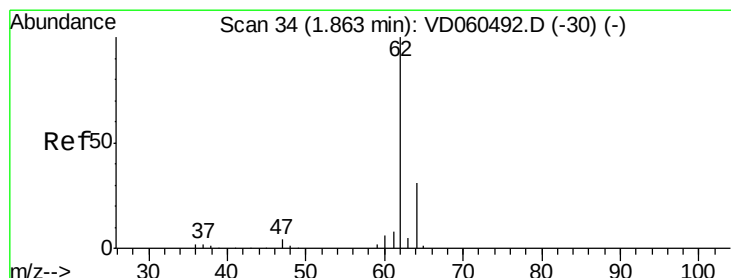
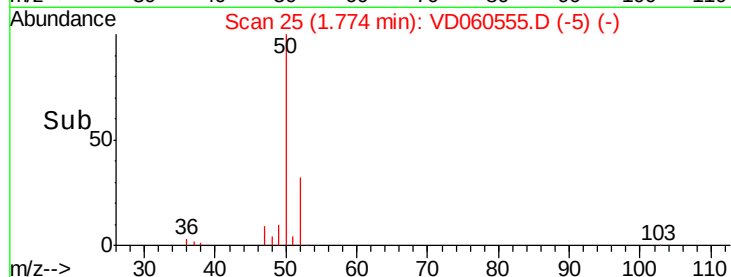
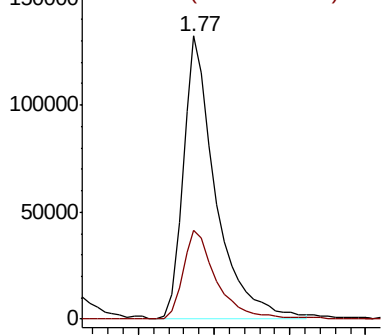
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 23.249 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060555.D

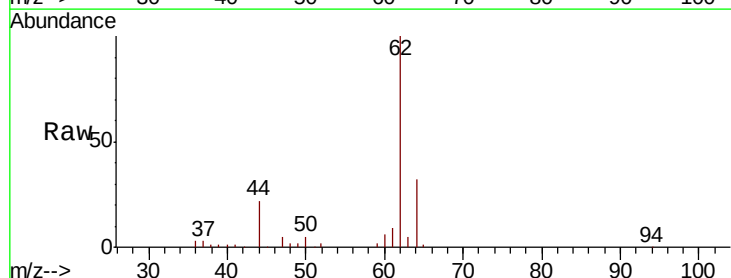
Acq: 13 Dec 2018 12:28

Tgt Ion: 62 Resp: 315997

Ion Ratio Lower Upper

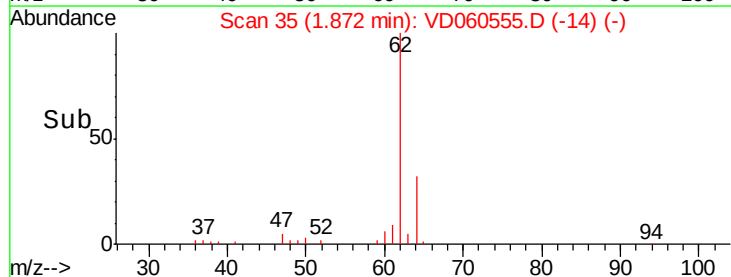
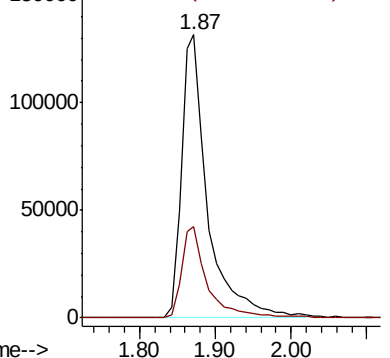
62 100

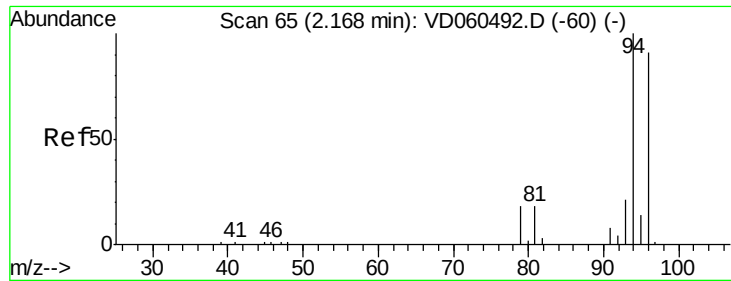
64 32.1 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





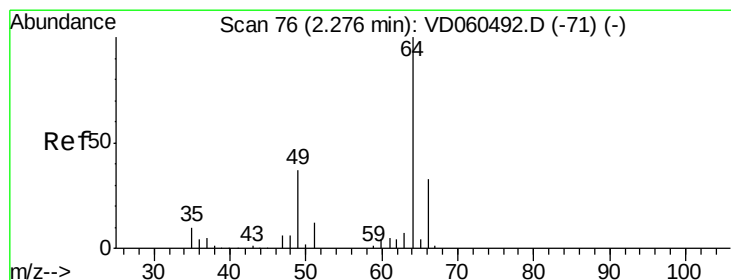
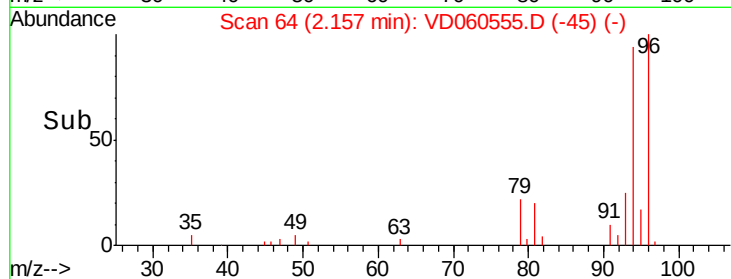
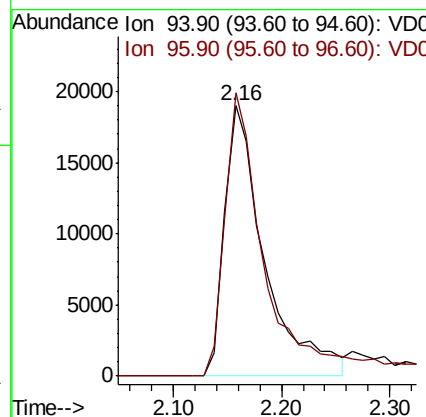
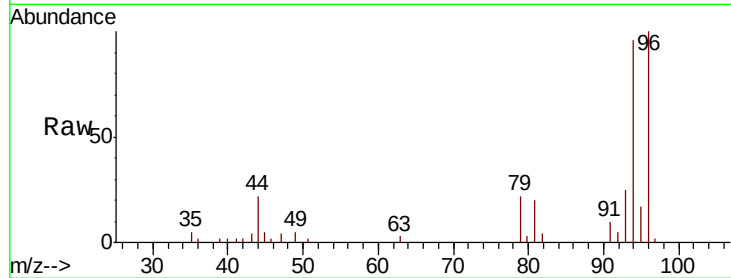
#5
Bromomethane
Concen: 14.461 ug/l
RT: 2.16 min Scan# 64
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion: 94 Resp: 49172
Ion Ratio Lower Upper
94 100
96 104.7 72.6 108.8

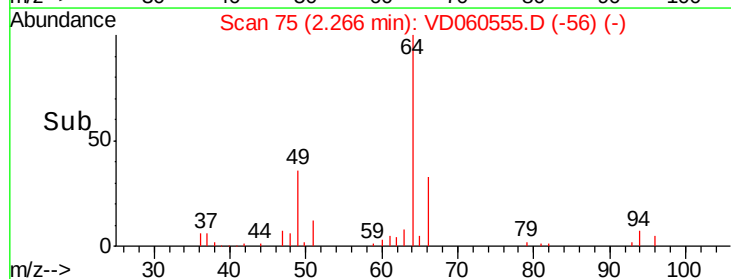
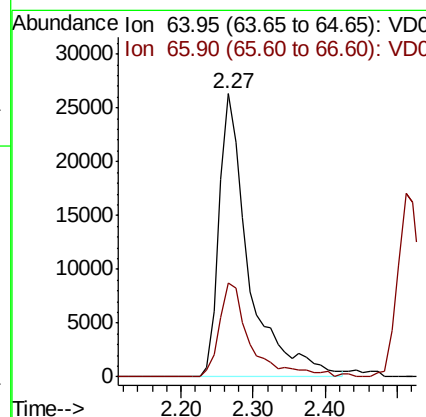
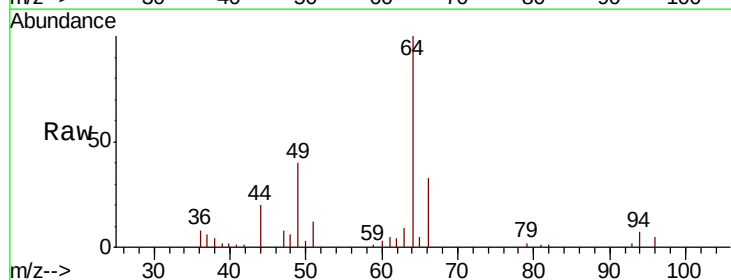
Manual Integrations
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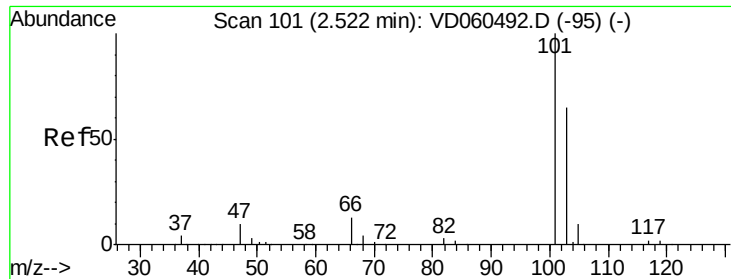
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#6
Chloroethane
Concen: 15.926 ug/l
RT: 2.27 min Scan# 75
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion: 64 Resp: 74487
Ion Ratio Lower Upper
64 100
66 33.1 26.4 39.6





#7

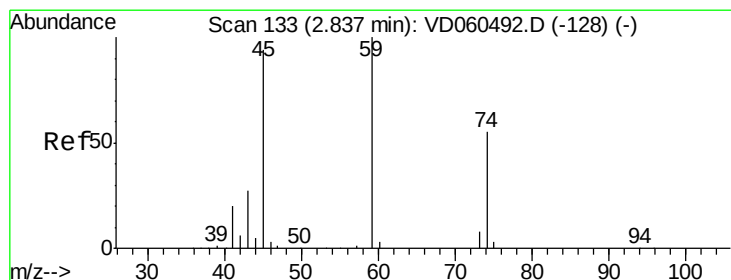
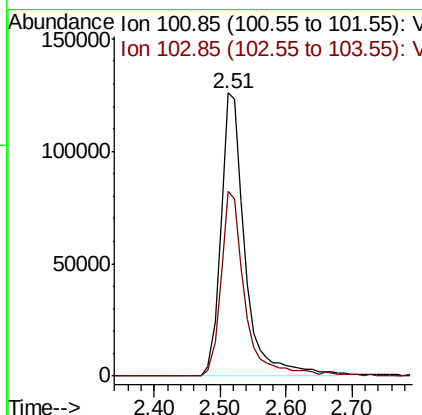
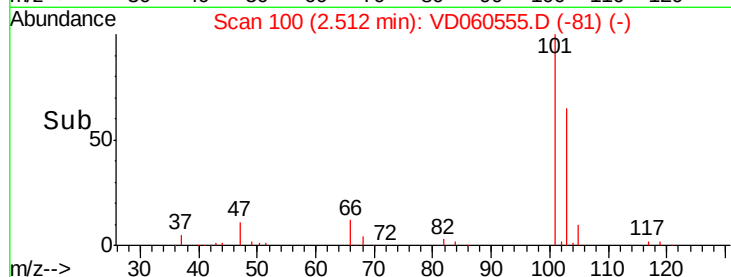
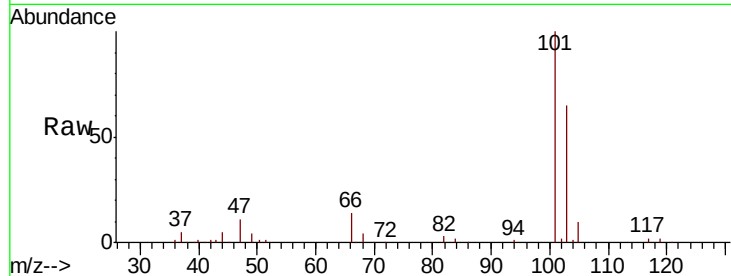
Trichlorofluoromethane
Concen: 20.525 ug/l
RT: 2.51 min Scan# 100
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.8	77.8

Manual Integrations
APPROVED

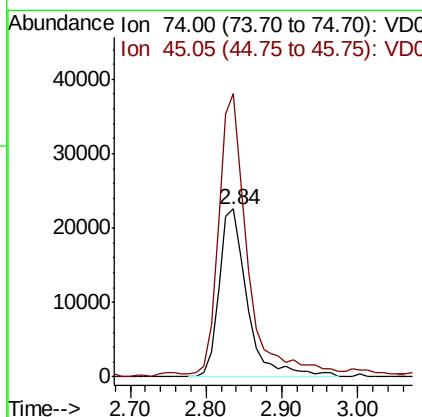
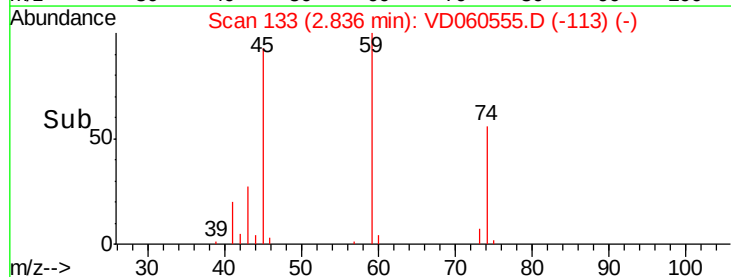
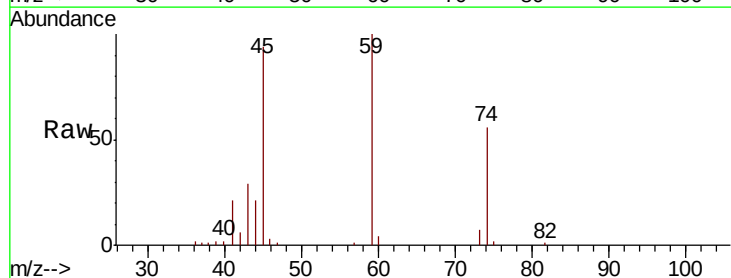
MMDadoda
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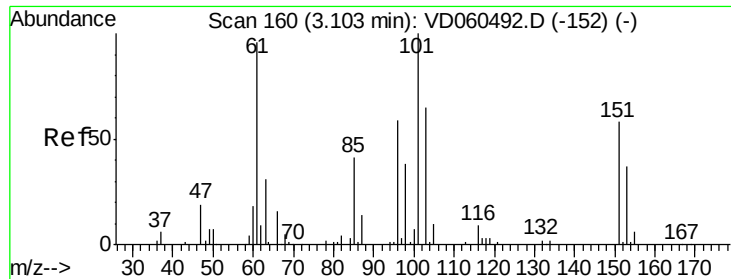


#8

Diethyl Ether
Concen: 21.610 ug/l
RT: 2.84 min Scan# 133
Delta R.T. -0.00 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	168.9	86.0	258.0





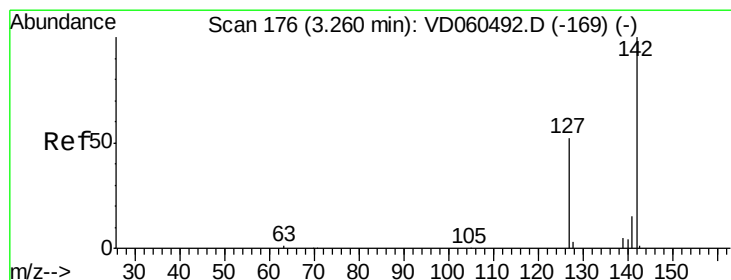
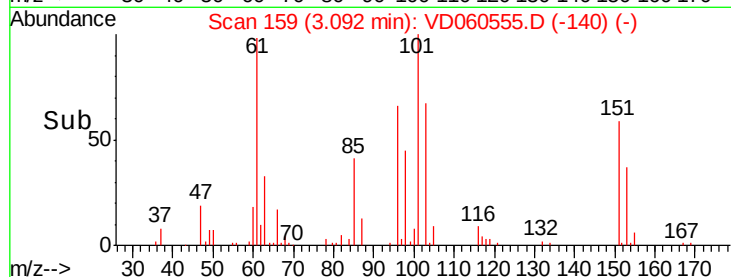
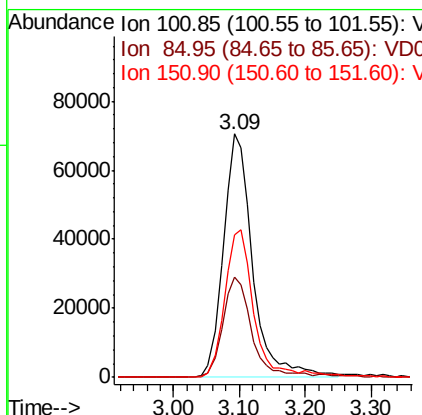
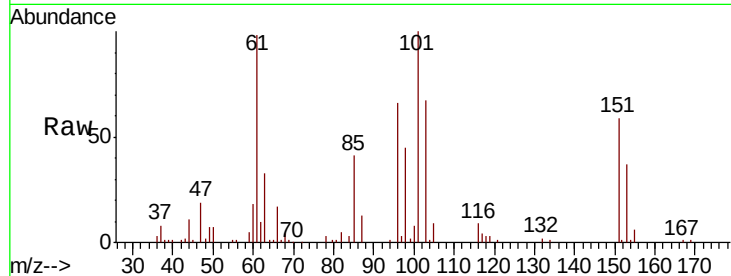
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.529 ug/l
RT: 3.09 min Scan# 159
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	219230		
85	41.3	32.7	49.1	
151	58.7	46.6	69.8	

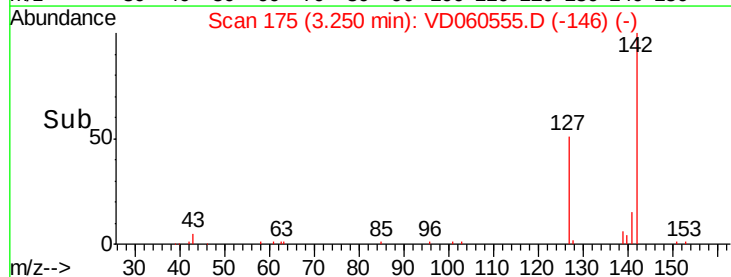
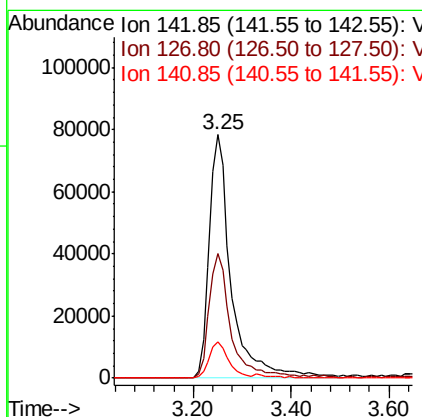
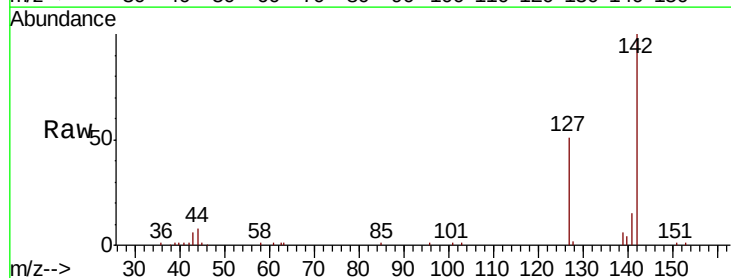
Manual Integrations
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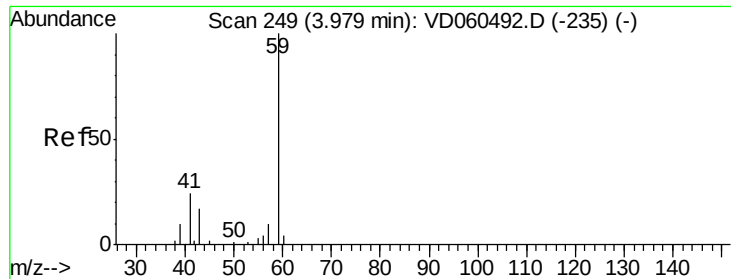
MMDadoda
12/14/2018 11:25:34 AM



#10
Methyl Iodide
Concen: 20.723 ug/l
RT: 3.25 min Scan# 175
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	246668		
127	51.2	41.2	61.8	
141	14.9	11.9	17.9	





#11

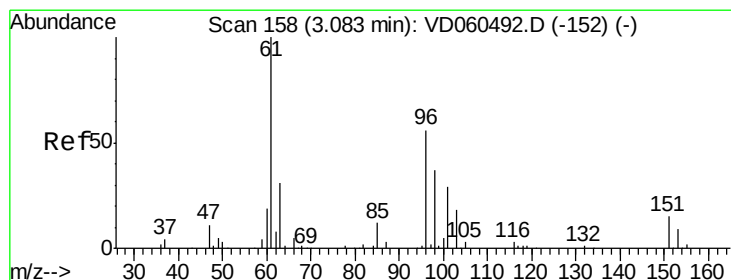
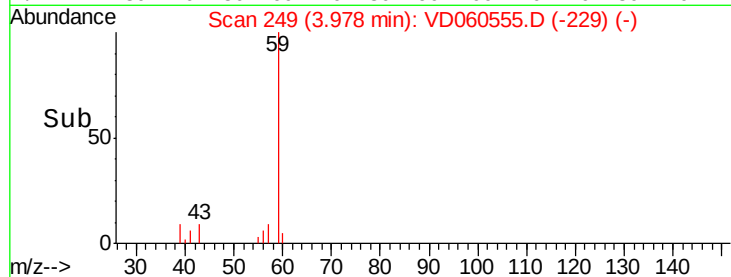
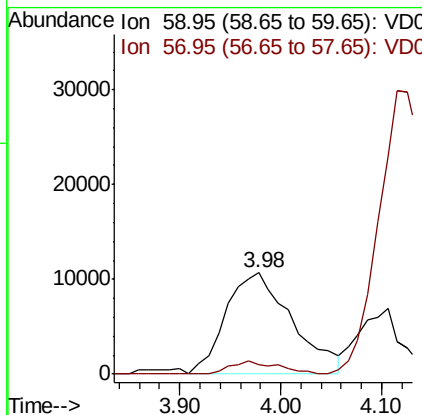
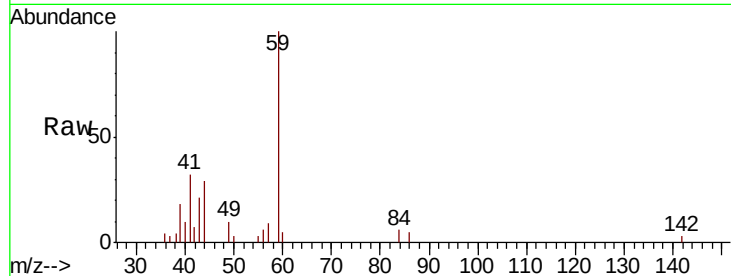
Tert butyl alcohol
Concen: 102.363 ug/l
RT: 3.98 min Scan# 249
Delta R.T. -0.00 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.9	8.1	12.1

Manual Integrations
APPROVED

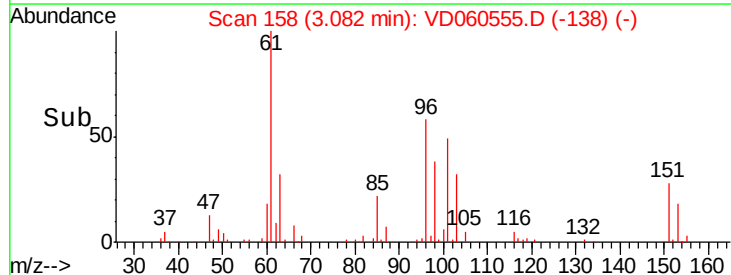
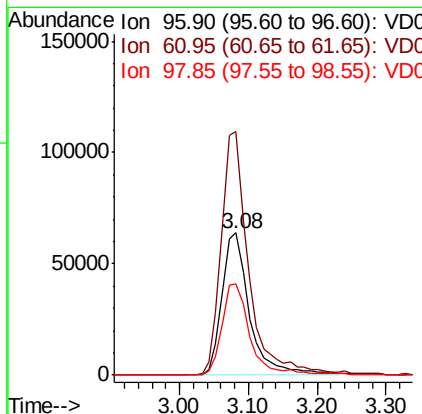
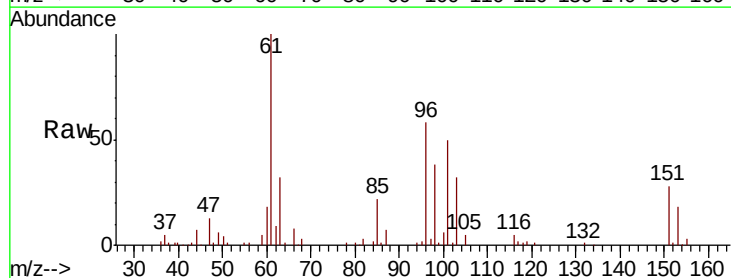
MMDadoda
12/14/2018 11:25:34 AM

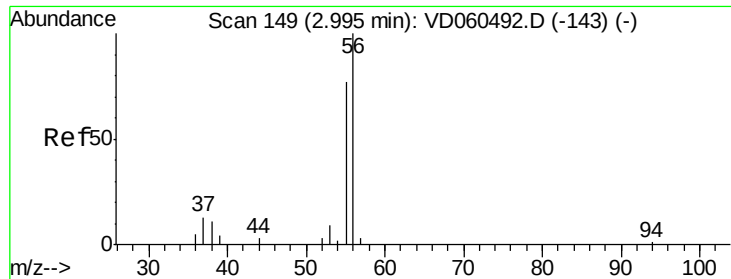


#12

1,1-Dichloroethene
Concen: 21.514 ug/l
RT: 3.08 min Scan# 158
Delta R.T. -0.00 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.5	143.0	214.4
98	64.4	53.4	80.0





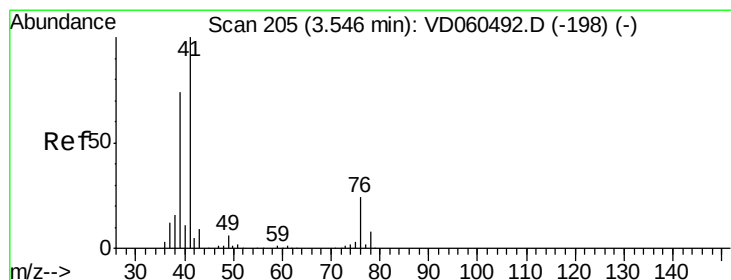
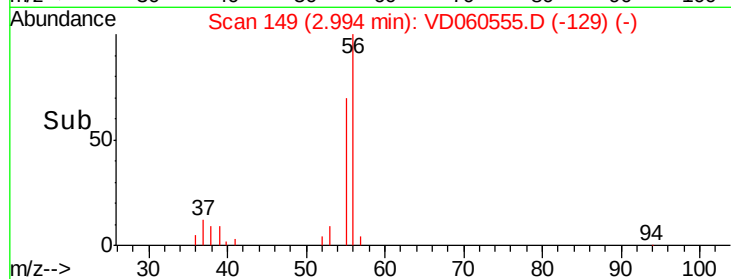
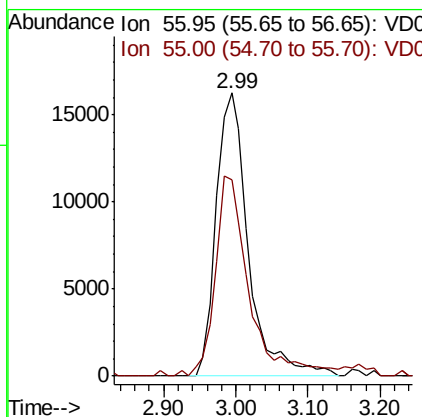
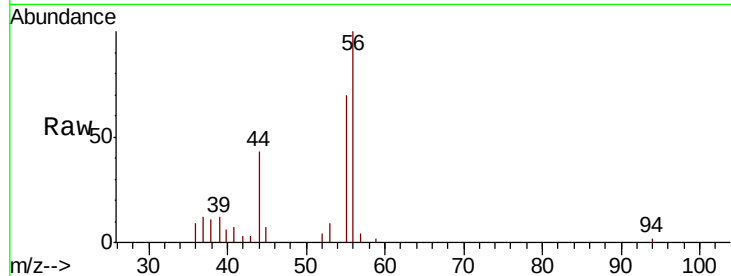
#13
 Acrolein
 Concen: 96.112 ug/l
 RT: 2.99 min Scan# 149
 Delta R.T. -0.00 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBSD01

Tot Ion	56	Resp	50127
Ion Ratio	100	Lower	Upper
55	69.5	62.0	93.0

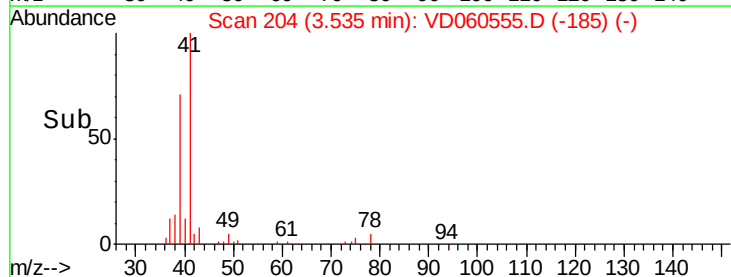
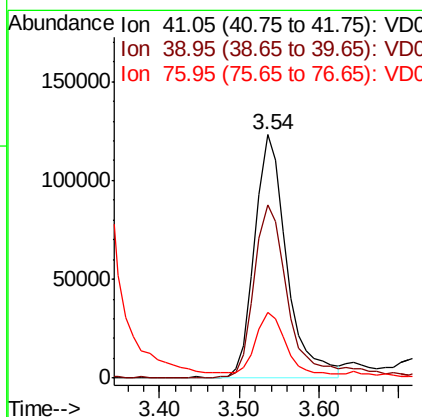
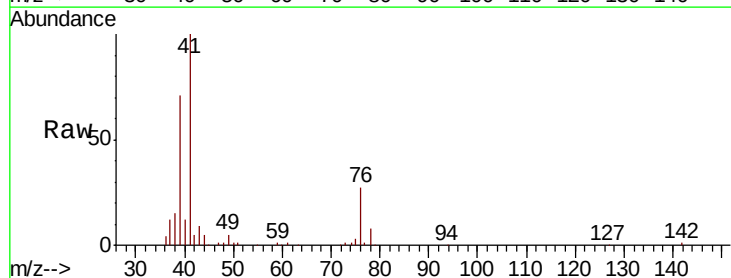
Manual Integrations
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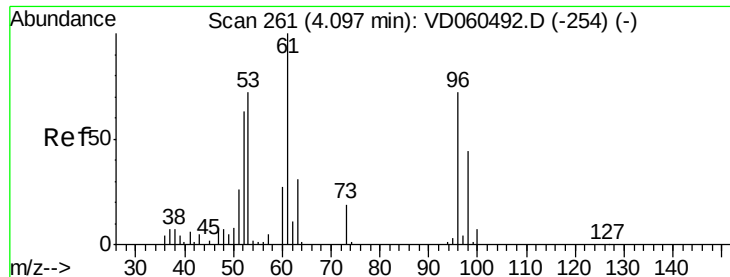
MMDadoda
 12/14/2018 11:25:34 AM



#14
 Allyl chloride
 Concen: 21.911 ug/l
 RT: 3.54 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion	41	Resp	344417
Ion Ratio	100	Lower	Upper
39	71.2	59.3	88.9
76	26.9	21.0	31.6





#15

Acrylonitrile

Concen: 108.219 ug/l

RT: 4.09 min Scan# 260

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBSD01

Tot Ion: 53 Resp: 293296

Ion Ratio Lower Upper

53 100

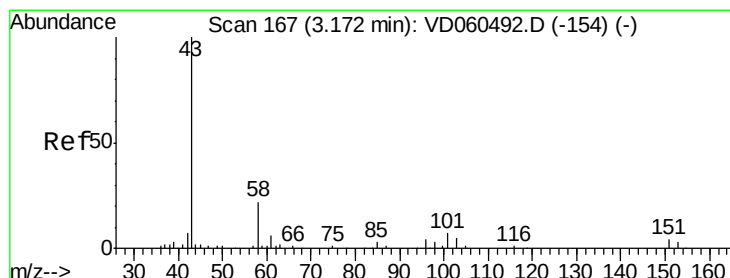
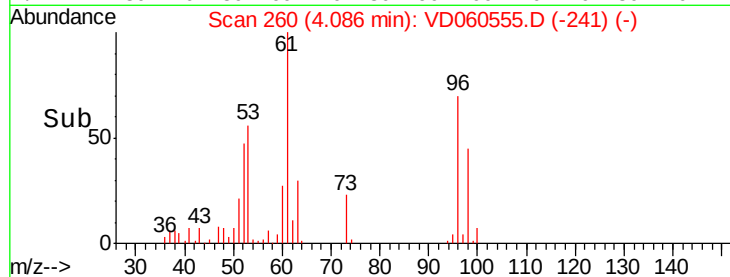
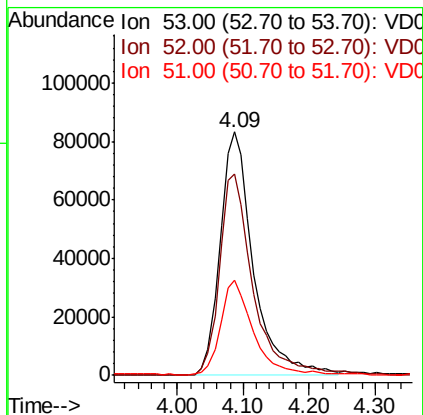
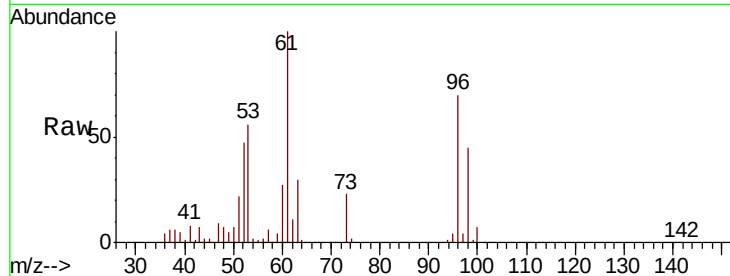
52 82.9 70.0 105.0

51 39.2 28.8 43.2

Manual Integrations
APPROVED

MMDadoda

12/14/2018 11:25:34 AM



#16

Acetone

Concen: 100.612 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060555.D

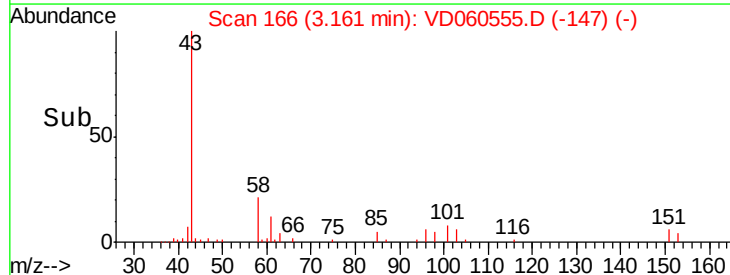
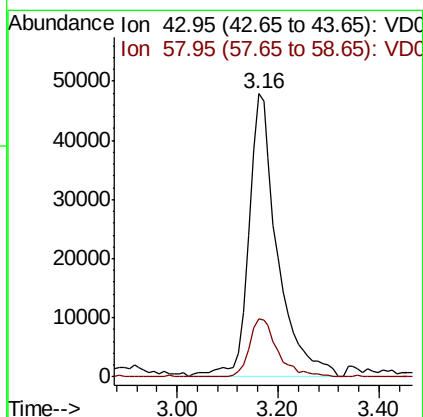
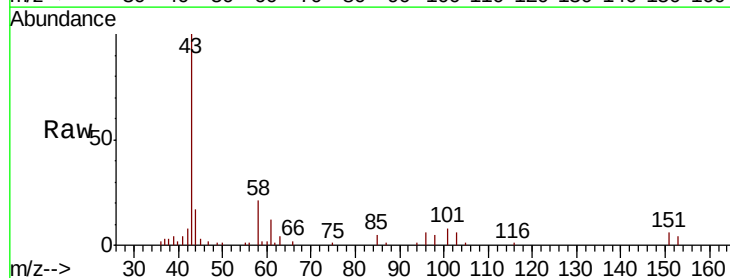
Acq: 13 Dec 2018 12:28

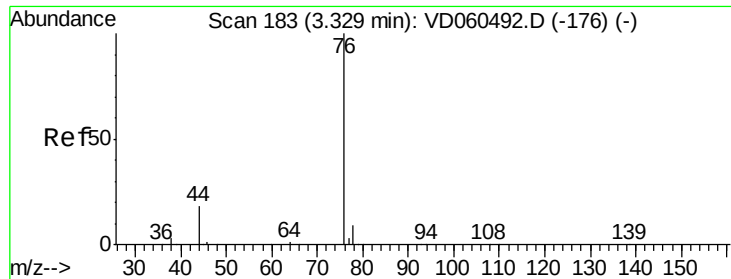
Tgt Ion: 43 Resp: 189472

Ion Ratio Lower Upper

43 100

58 20.7 17.3 25.9





#17

Carbon Disulfide

Concen: 21.018 ug/l

RT: 3.32 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 76 Resp: 565619

Ion Ratio Lower Upper

76 100

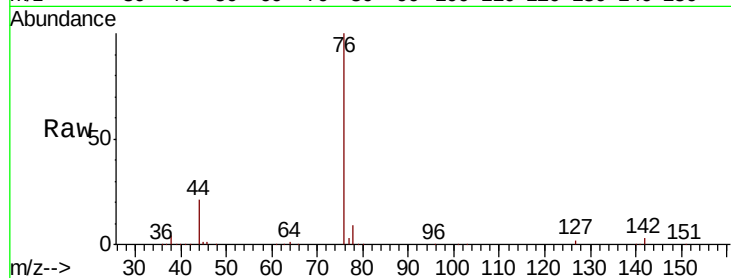
78 8.8 7.0 10.6

Manual Integrations

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MMDadoda

12/14/2018 11:25:34 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

250000

200000

150000

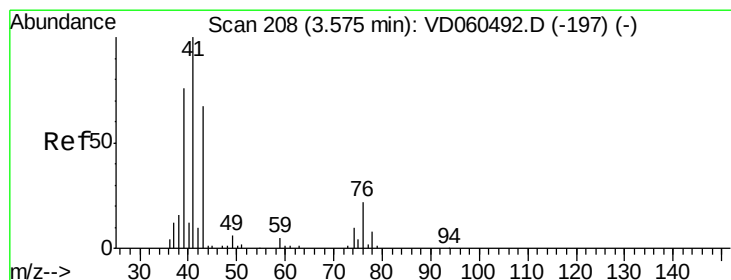
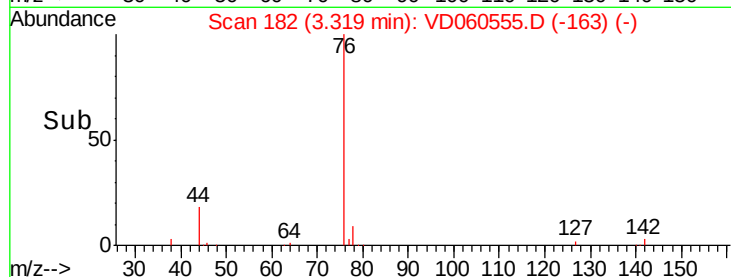
100000

50000

0

3.20 3.30 3.40 3.50

Time-->



#18

Methyl Acetate

Concen: 21.177 ug/l

RT: 3.55 min Scan# 206

Delta R.T. -0.02 min

Lab File: VD060555.D

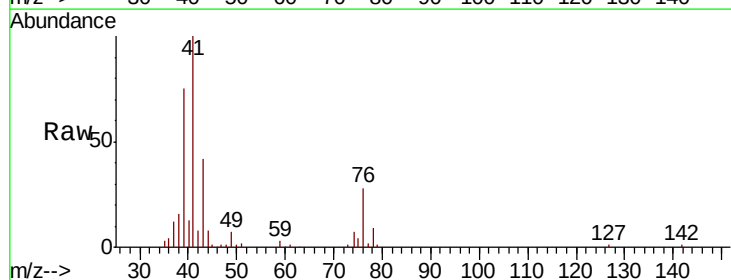
Acq: 13 Dec 2018 12:28

Tgt Ion: 43 Resp: 94784

Ion Ratio Lower Upper

43 100

74 17.5 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

30000

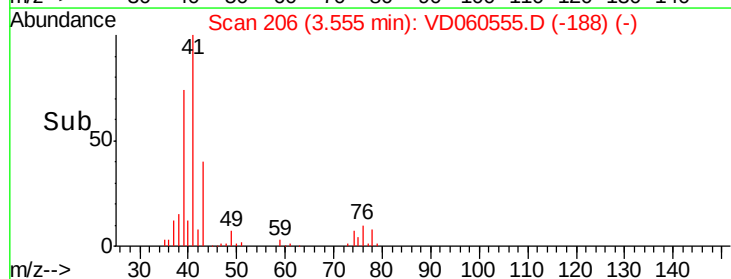
20000

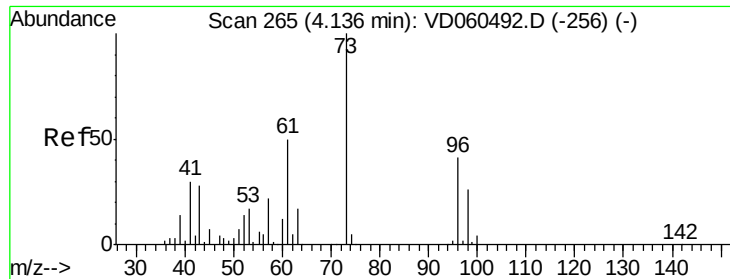
10000

0

3.40 3.50 3.60 3.70

Time-->





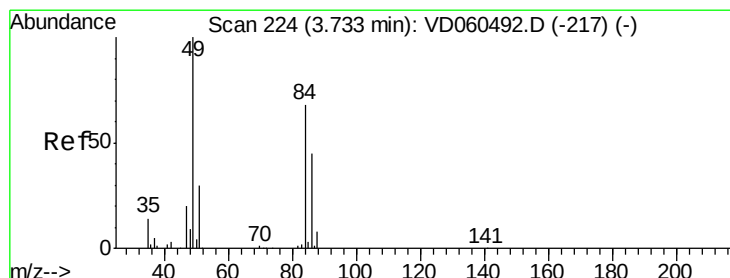
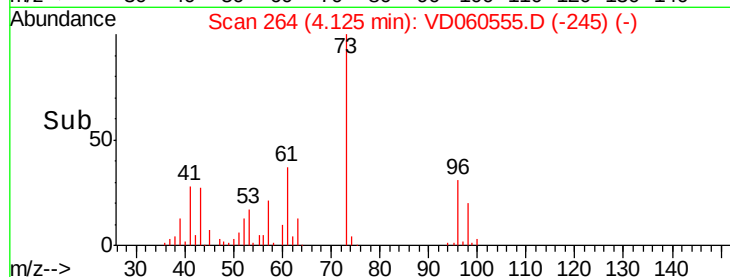
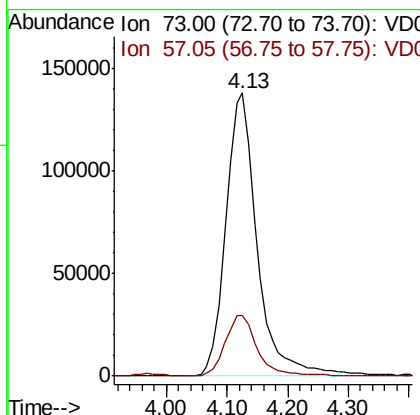
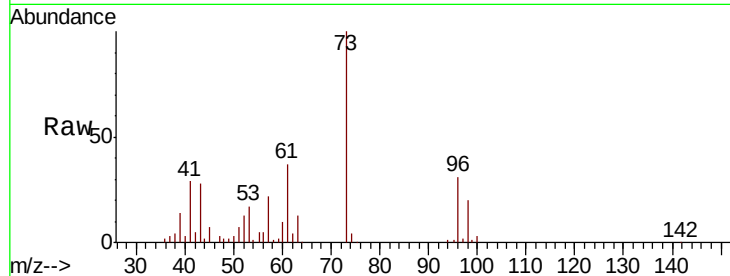
#19
Methyl tert-butyl Ether
Concen: 21.463 ug/l
RT: 4.13 min Scan# 264
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion: 73 Resp: 493126
Ion Ratio Lower Upper
73 100
57 21.6 17.8 26.6

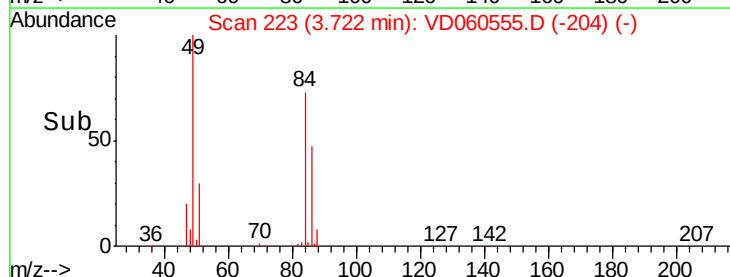
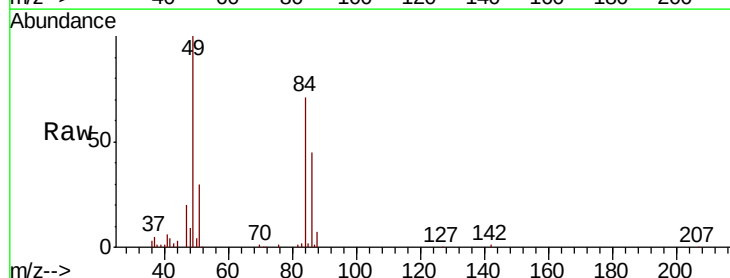
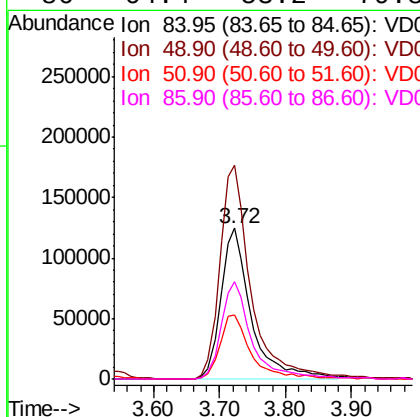
Manual Integrations
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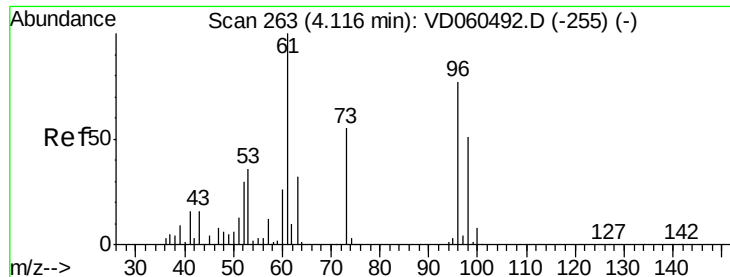
MMDadoda
12/14/2018 11:25:34 AM



#20
Methylene Chloride
Concen: 20.395 ug/l
RT: 3.72 min Scan# 223
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion: 84 Resp: 398453
Ion Ratio Lower Upper
84 100
49 141.6 117.2 175.8
51 42.1 35.3 52.9
86 64.4 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.196 ug/l

RT: 4.10 min Scan# 261

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 96 Resp: 381989

Ion Ratio Lower Upper

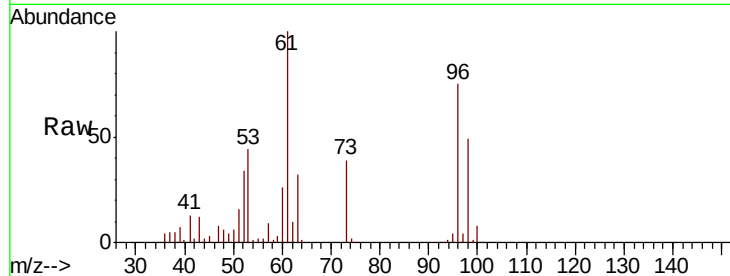
96 100

61 132.6 104.2 156.4

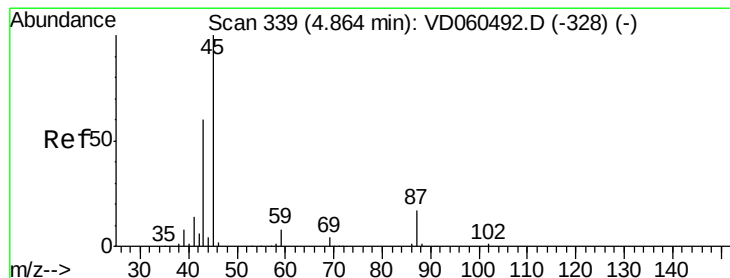
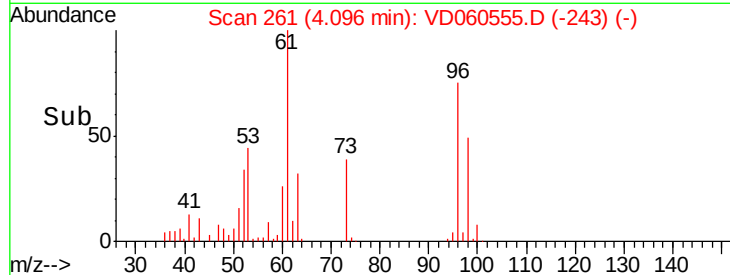
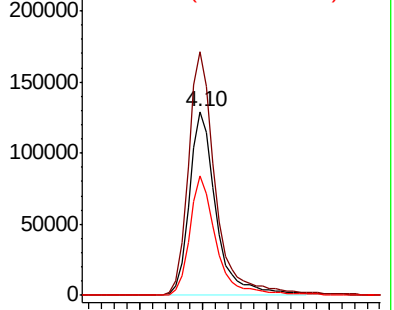
98 65.1 52.8 79.2

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MMDadoda
12/14/2018 11:25:34 AM



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



#22

Diisopropyl ether

Concen: 21.363 ug/l

RT: 4.84 min Scan# 337

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Tgt Ion: 45 Resp: 1205692

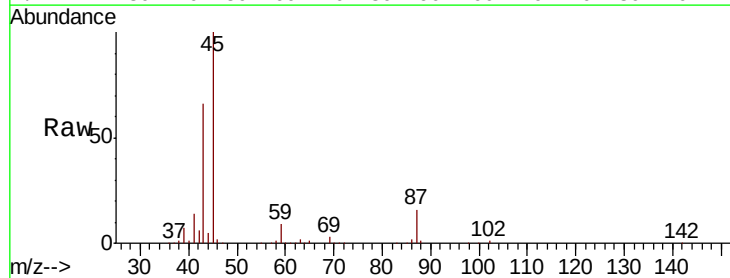
Ion Ratio Lower Upper

45 100

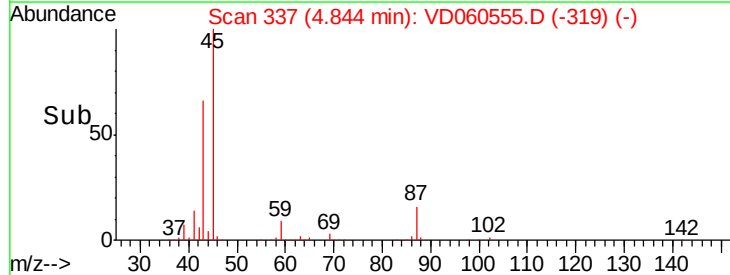
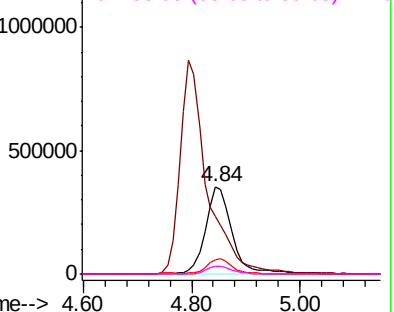
43 65.6 48.6 73.0

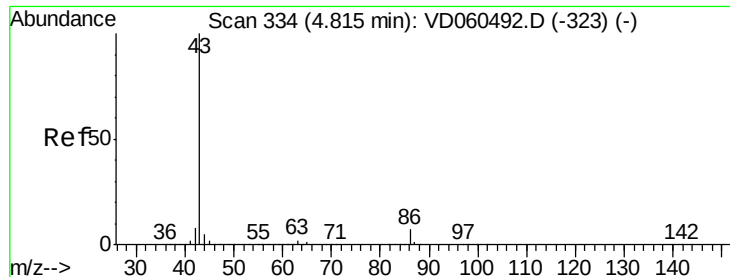
87 15.7 14.0 21.0

59 8.6 6.9 10.3



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 106.912 ug/l

RT: 4.79 min Scan# 332

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 43 Resp: 2989498

Ion Ratio Lower Upper

43 100

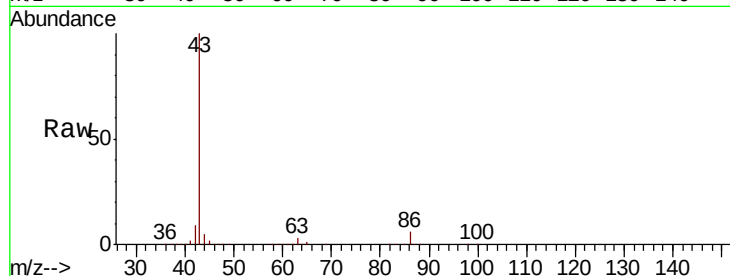
86 6.5 5.5 8.3

Manual Integrations

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MMDadoda

12/14/2018 11:25:34 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

1000000

800000

600000

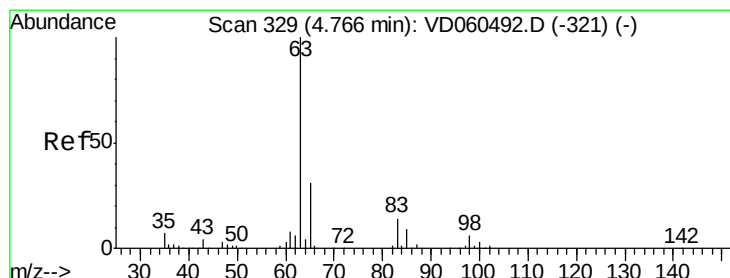
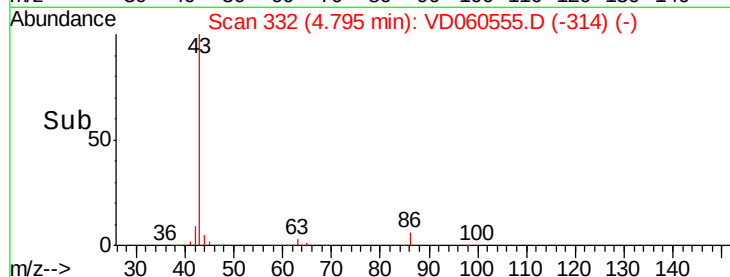
400000

200000

0

4.60 4.70 4.80 4.90 5.00

Time-->



#24

1,1-Dichloroethane

Concen: 21.373 ug/l

RT: 4.75 min Scan# 327

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

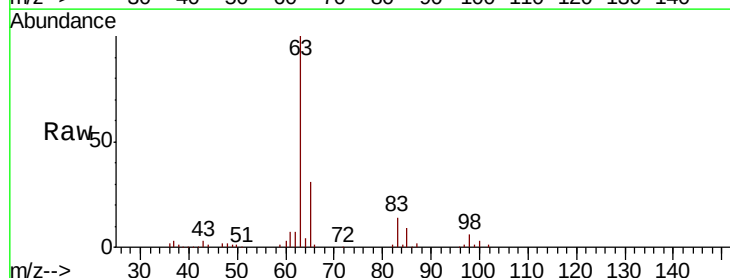
Tgt Ion: 63 Resp: 626642

Ion Ratio Lower Upper

63 100

98 5.7 2.8 8.3

100 3.1 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

250000

200000

150000

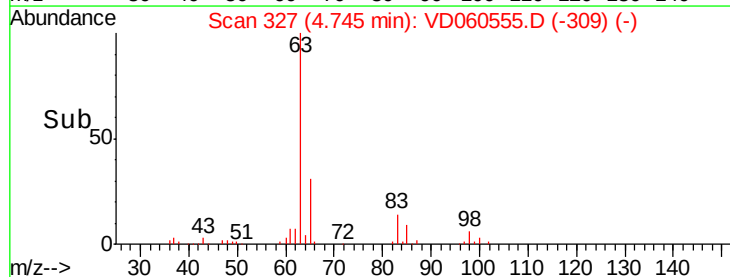
100000

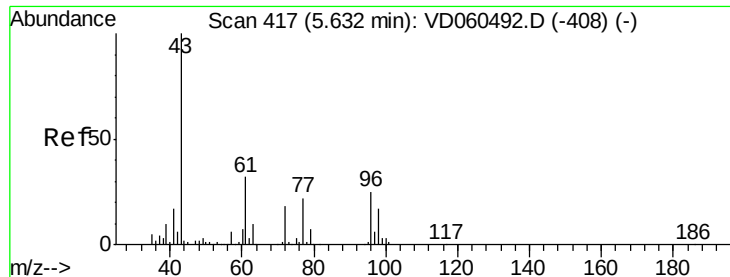
50000

0

4.60 4.70 4.80 4.90

Time-->





#25

2-Butanone

Concen: 104.729 ug/l

RT: 5.61 min Scan# 415

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 43 Resp: 388024

Ion Ratio Lower Upper

43 100

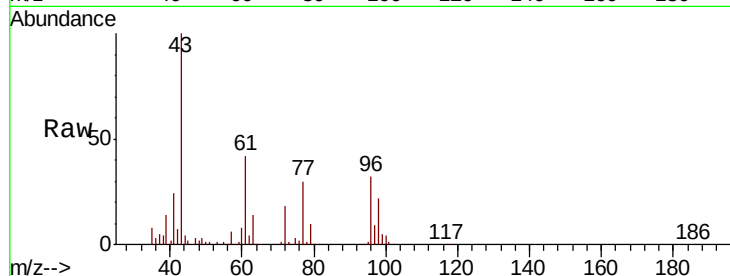
72 18.0 14.6 21.8

Manual Integrations

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MMDadoda

12/14/2018 11:25:34 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

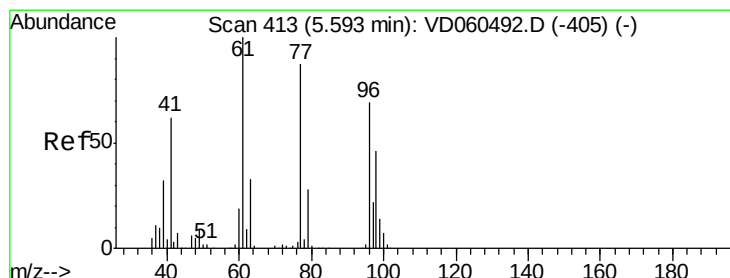
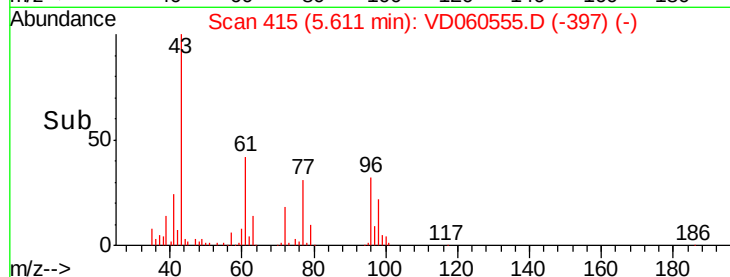
100000

50000

0

5.50 5.60 5.70

Time-->



#26

2,2-Dichloropropane

Concen: 21.892 ug/l

RT: 5.58 min Scan# 412

Delta R.T. -0.01 min

Lab File: VD060555.D

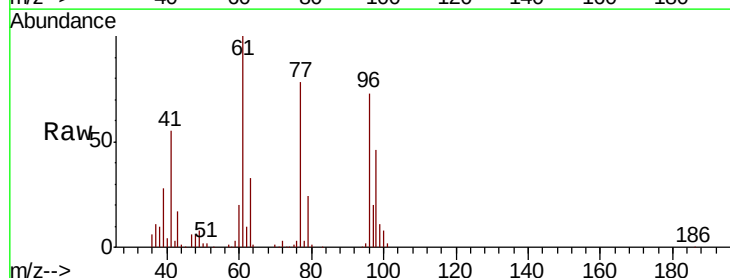
Acq: 13 Dec 2018 12:28

Tgt Ion: 77 Resp: 495847

Ion Ratio Lower Upper

77 100

97 25.9 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

150000

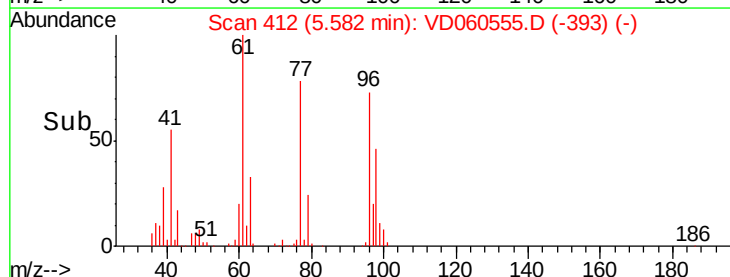
100000

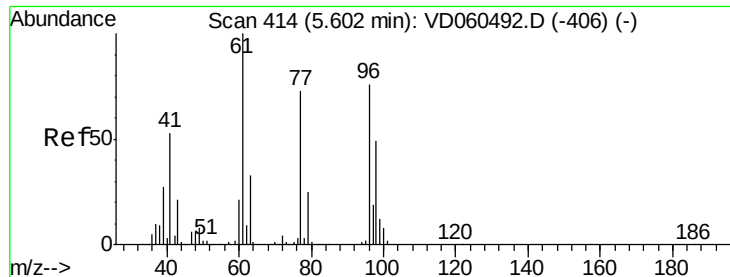
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->





#27

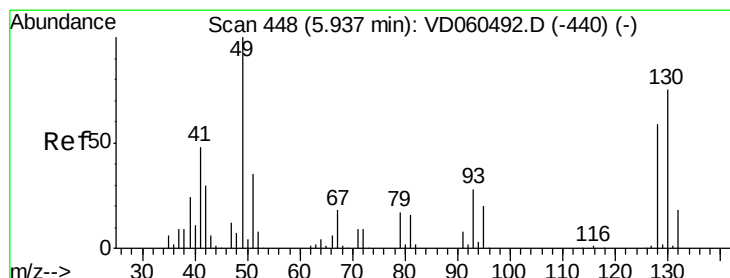
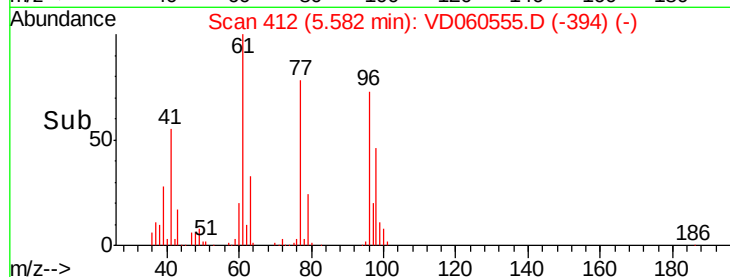
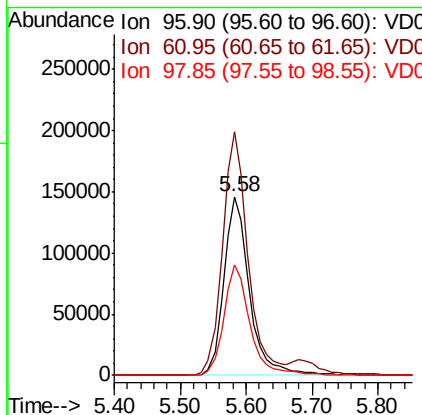
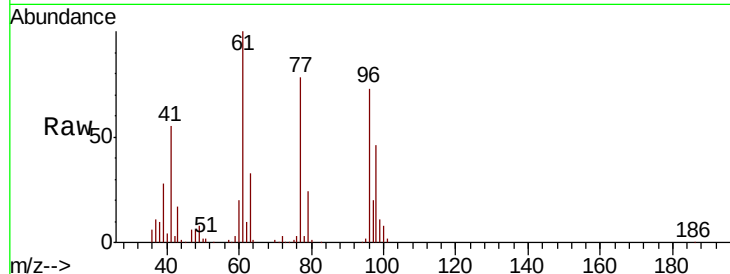
cis-1,2-Dichloroethene
Concen: 21.642 ug/l
RT: 5.58 min Scan# 412
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	136.3	0.0	263.6	
98	62.2	0.0	128.2	

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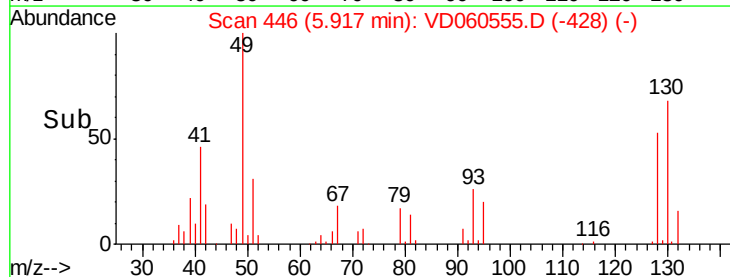
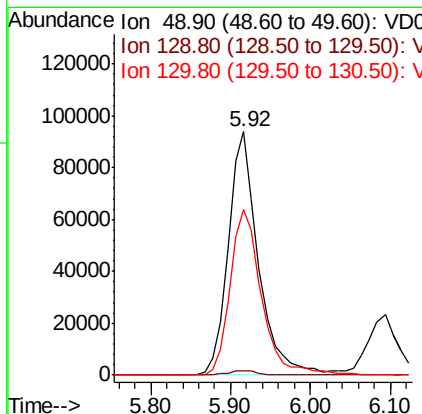
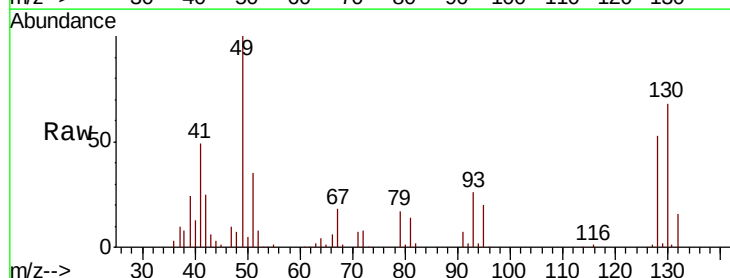
MMDadoda
12/14/2018 11:25:34 AM

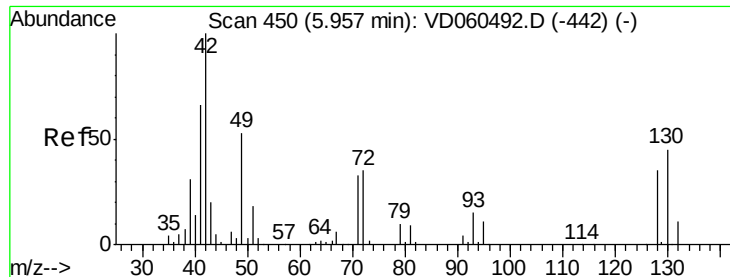


#28

Bromochloromethane
Concen: 19.145 ug/l
RT: 5.92 min Scan# 446
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	3.4	
130	68.0	59.8	89.6	





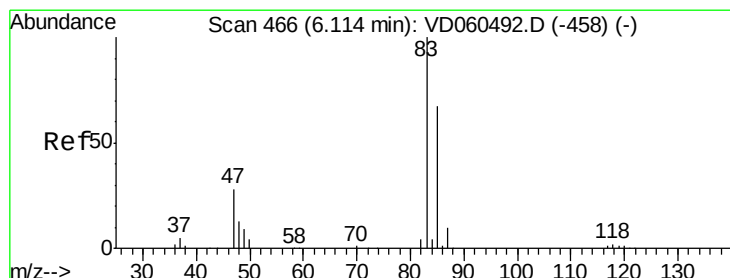
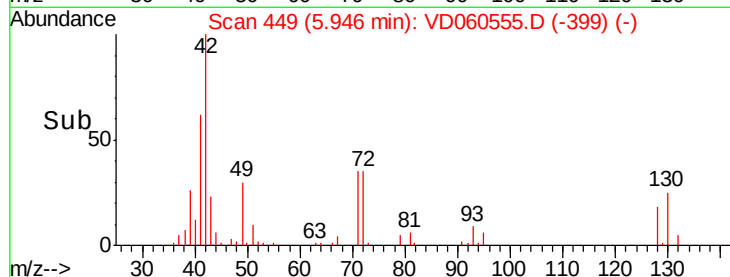
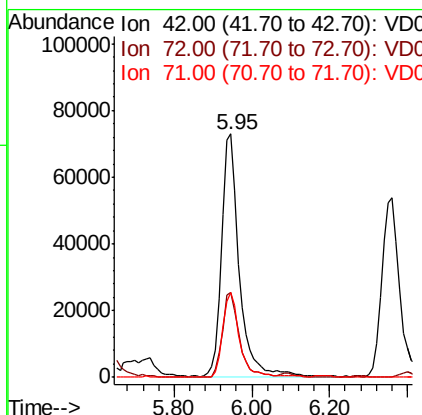
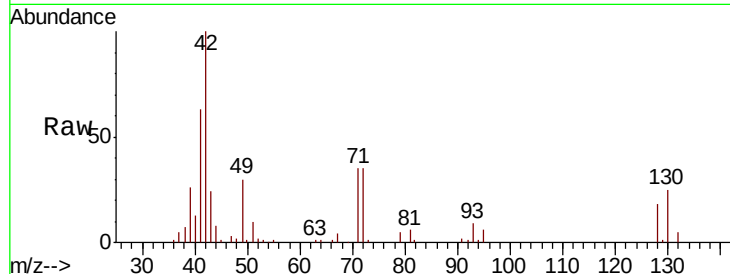
#29
Tetrahydrofuran
Concen: 111.447 ug/l
RT: 5.95 min Scan# 449
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.7	28.0	42.0
71	32.4	27.2	40.8

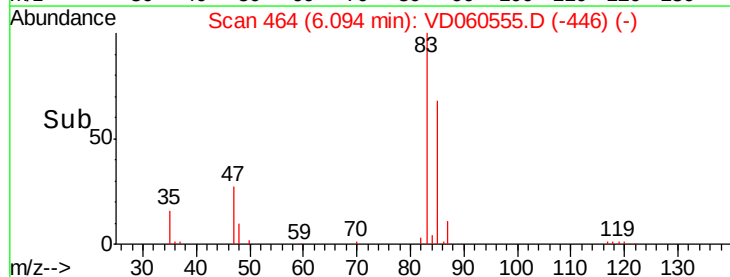
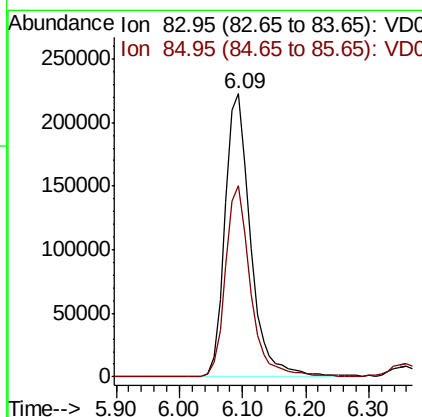
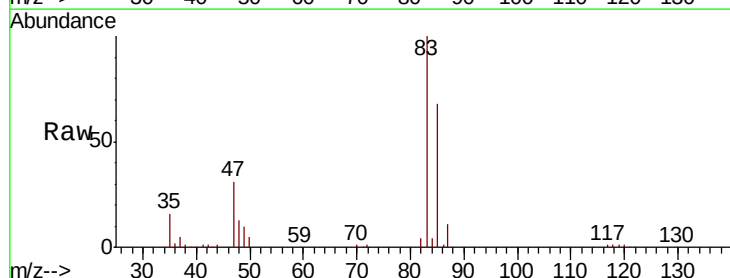
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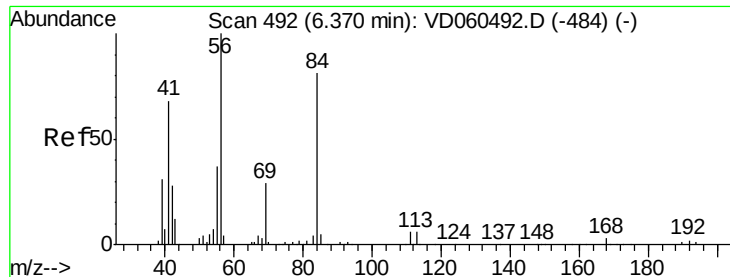
MMDadoda
12/14/2018 11:25:34 AM



#30
Chloroform
Concen: 21.144 ug/l
RT: 6.09 min Scan# 464
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.5	53.4	80.2





#31

Cyclohexane

Concen: 21.277 ug/l

RT: 6.36 min Scan# 491

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

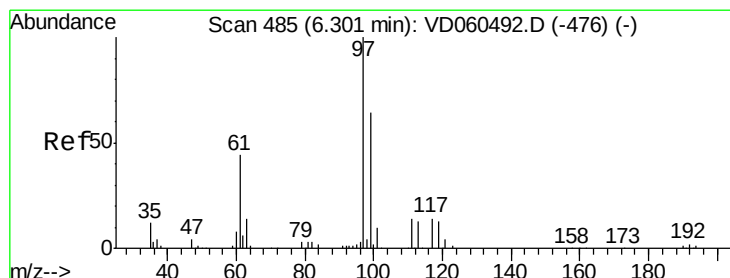
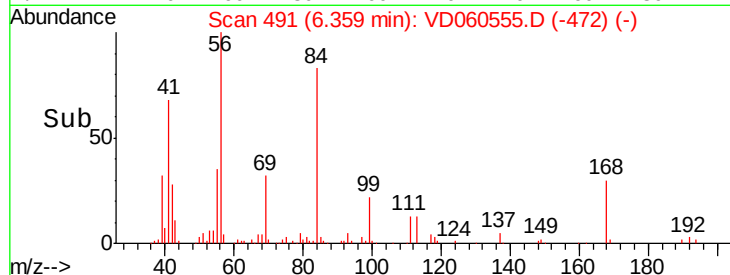
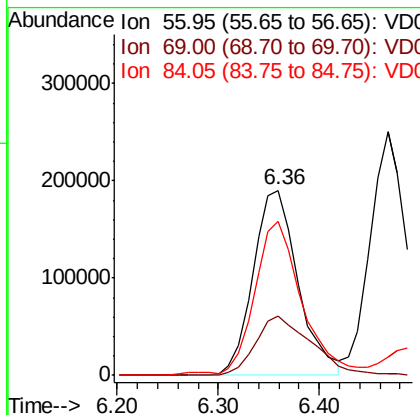
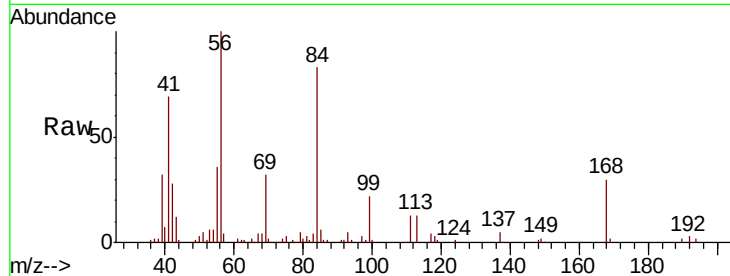
ClientSampleId :

VD1213SBS01

Tot Ion:	56	Resp:	588623
Ion	Ratio	Lower	Upper
56	100		
69	32.3	22.8	34.2
84	83.1	65.1	97.7

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#32

1,1,1-Trichloroethane

Concen: 21.352 ug/l

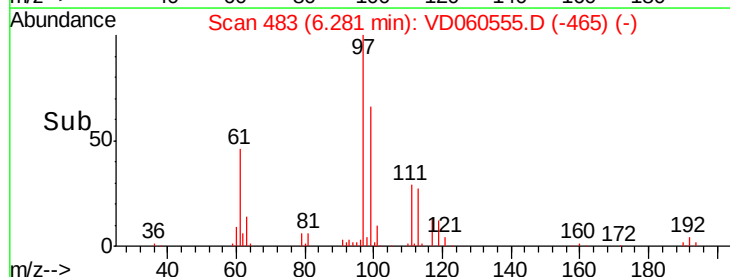
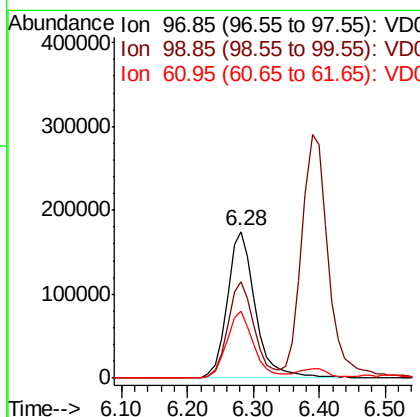
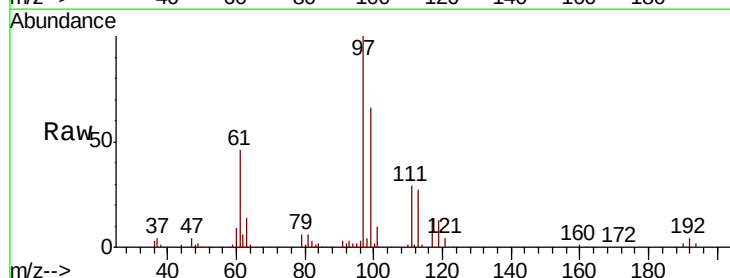
RT: 6.28 min Scan# 483

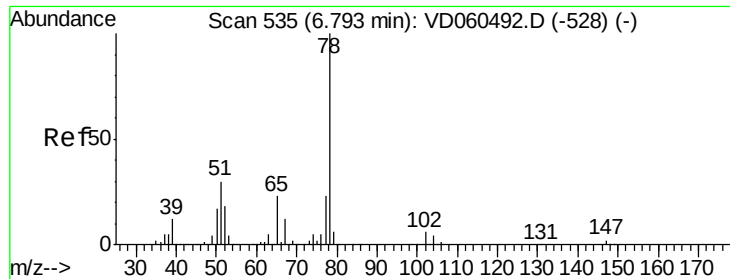
Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Tgt Ion:	97	Resp:	518494
Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.0	76.4
61	46.0	35.3	52.9





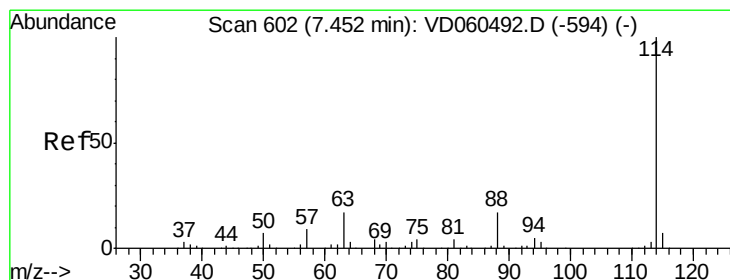
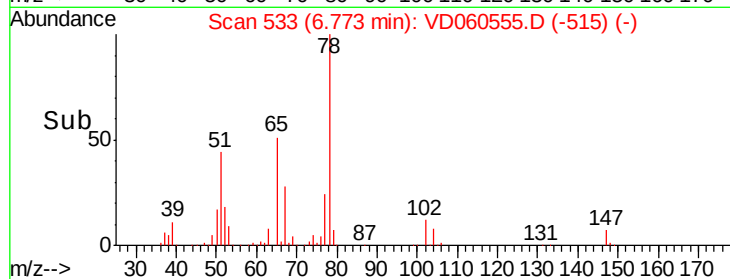
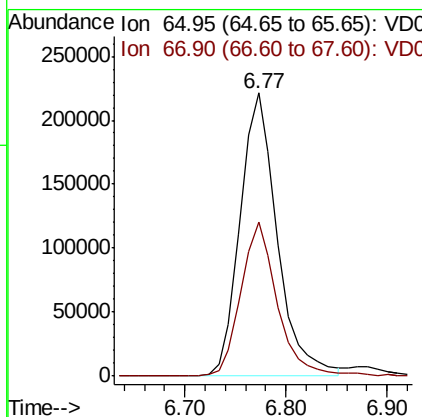
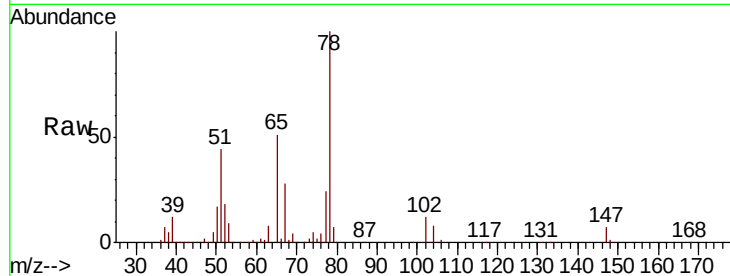
#33
 1,2-Dichloroethane-d4
 Concen: 21.352 ug/l
 RT: 6.77 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.4	0.0	106.8	

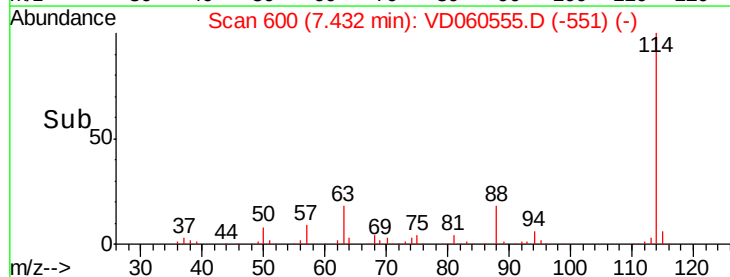
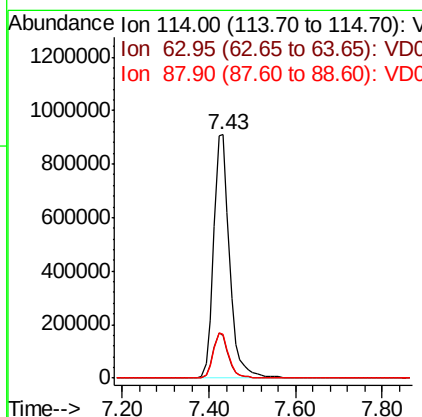
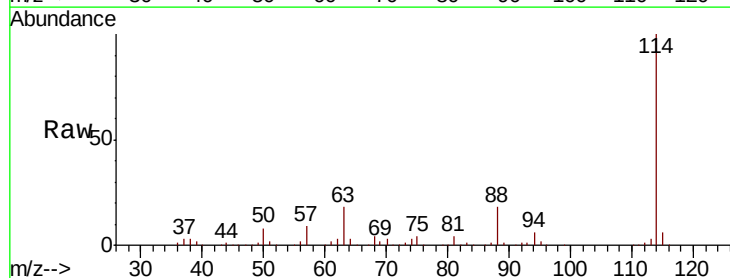
Manual Integrations
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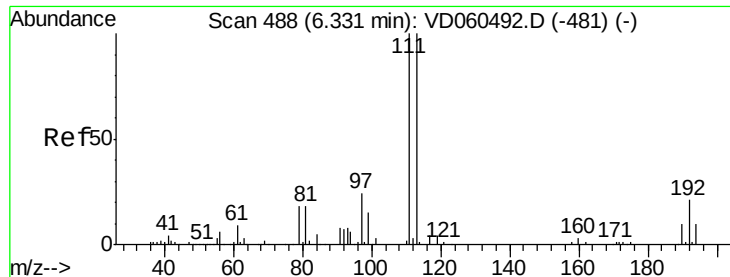
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 12/14/2018 11:25:34 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.8	0.0	34.2	
88	18.0	0.0	35.0	





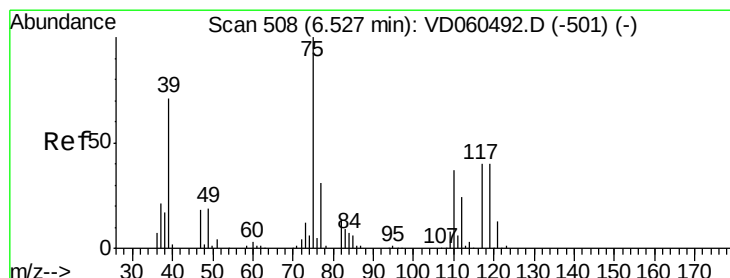
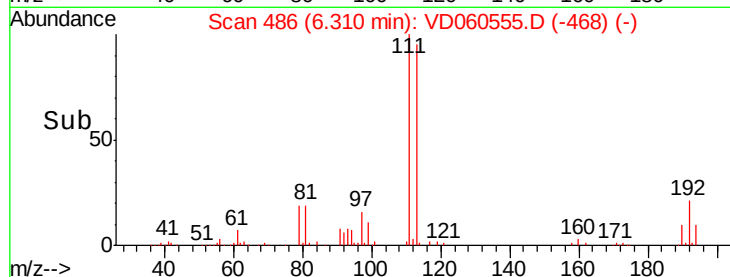
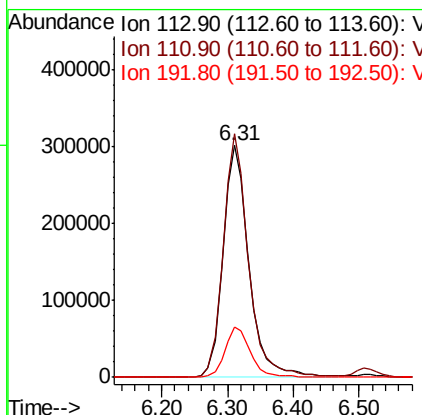
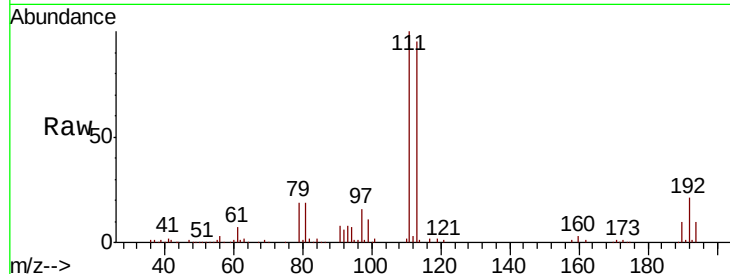
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	830184		
111	105.0		80.2	120.4
192	21.8		16.6	24.8

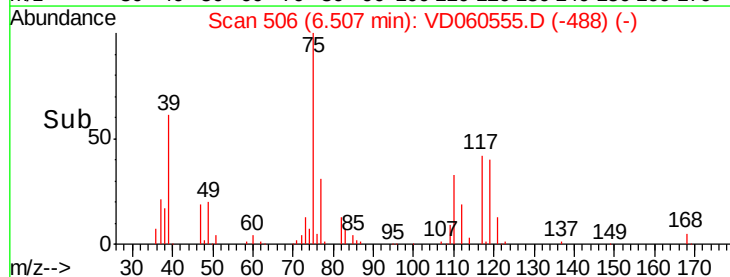
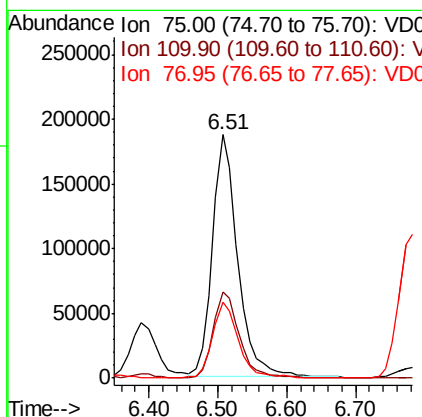
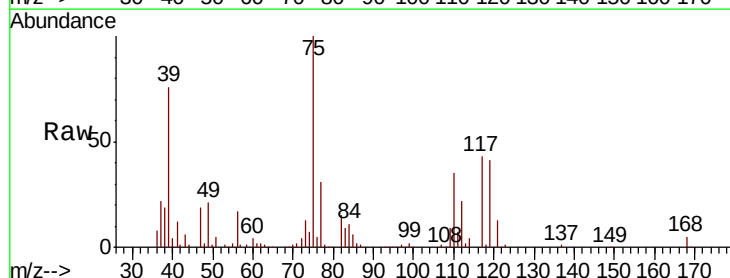
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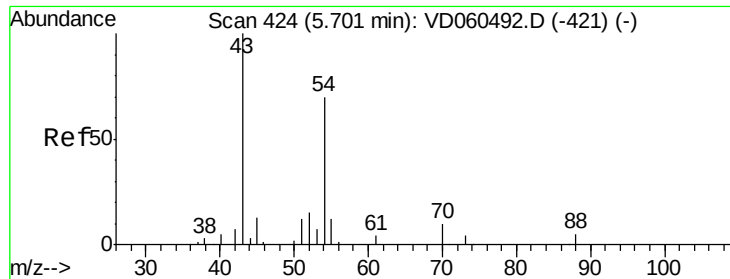
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 12/14/2018 11:25:34 AM



#36
 1,1-Dichloropropene
 Concen: 20.865 ug/l
 RT: 6.51 min Scan# 506
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	475611		
110	35.3		18.3	54.8
77	31.0		24.6	37.0





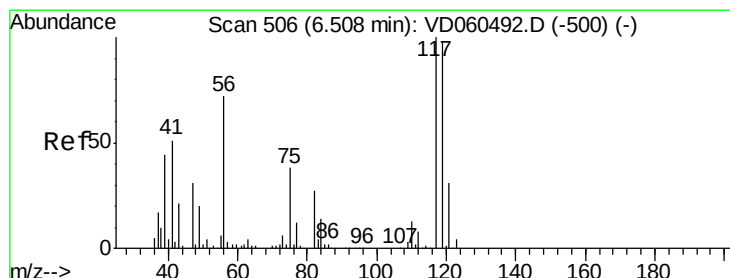
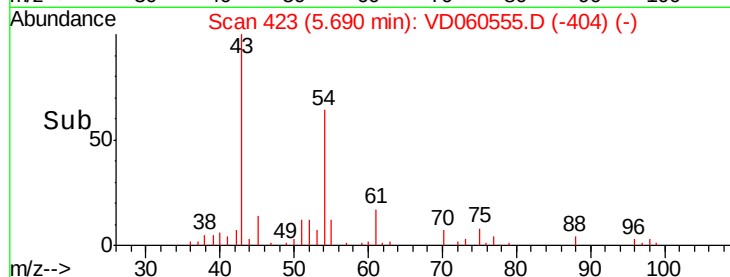
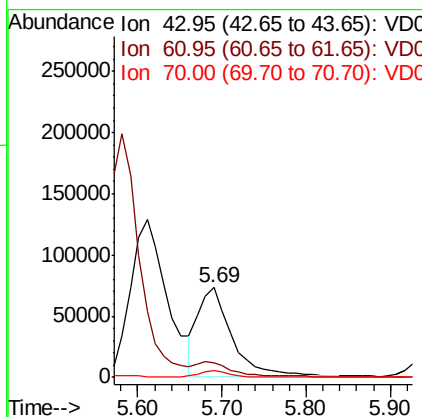
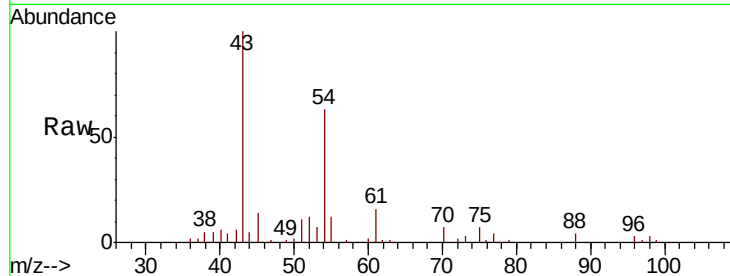
#37
Ethyl Acetate
Concen: 20.368 ug/l
RT: 5.69 min Scan# 423
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.4	12.4	18.6
70	7.4	5.4	8.0

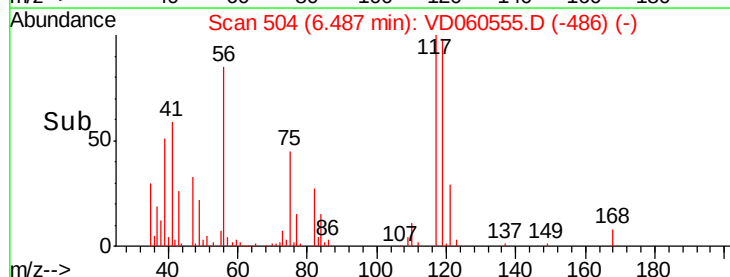
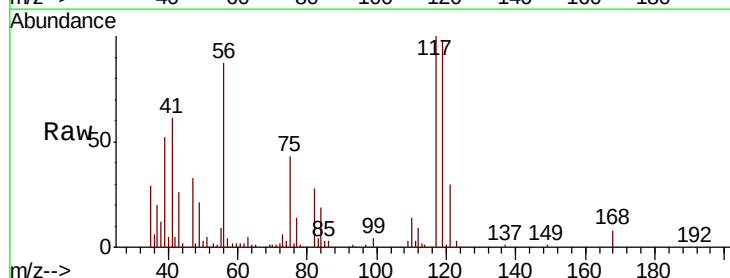
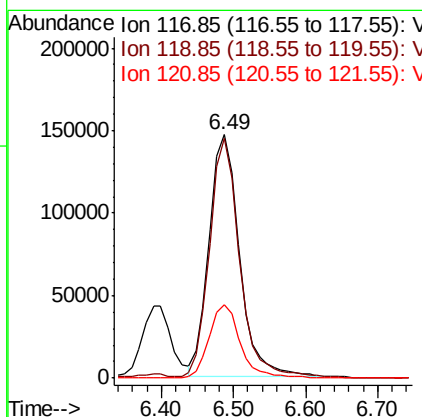
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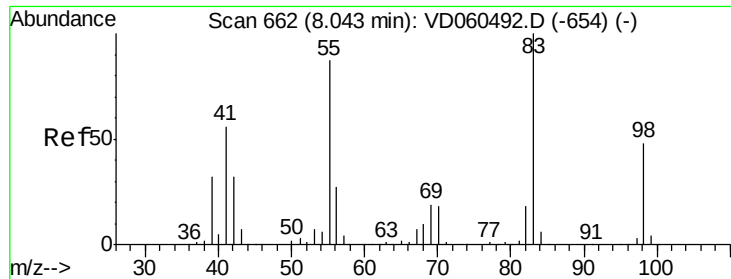
MMDadoda
12/14/2018 11:25:34 AM



#38
Carbon Tetrachloride
Concen: 20.990 ug/l
RT: 6.49 min Scan# 504
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.8	115.2
121	30.1	24.4	36.6





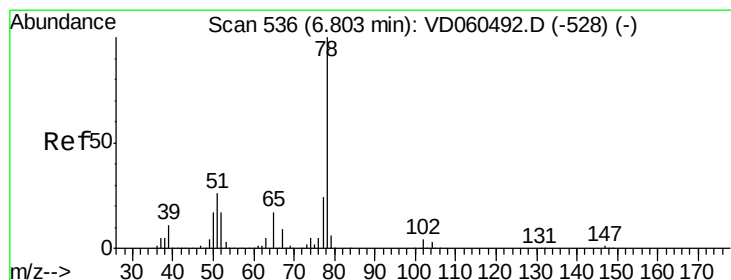
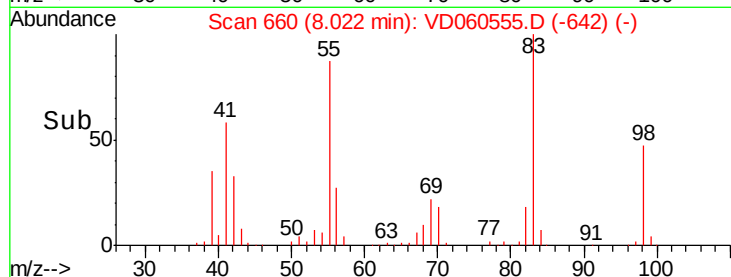
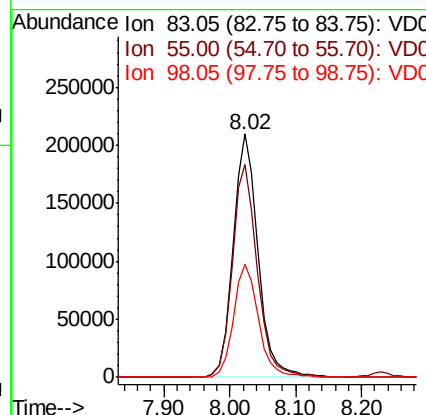
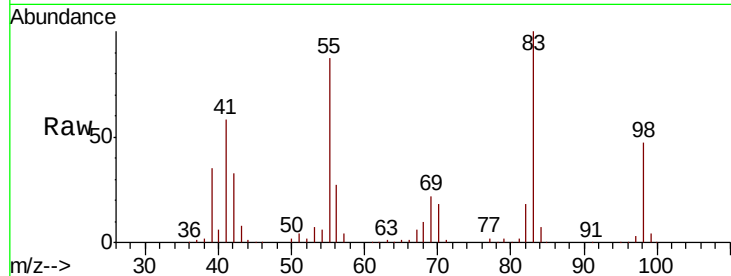
#39
Methylvlcyclohexane
Concen: 21.453 ug/l
RT: 8.02 min Scan# 660
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.4	69.8	104.8
98	46.5	38.4	57.6

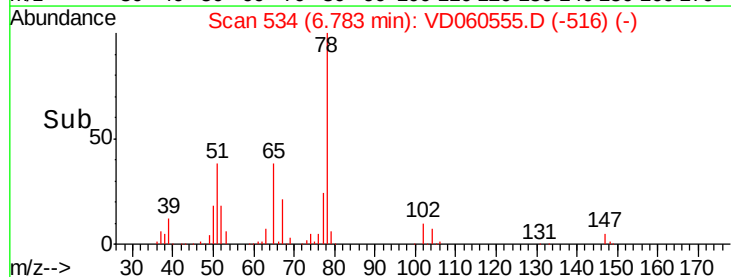
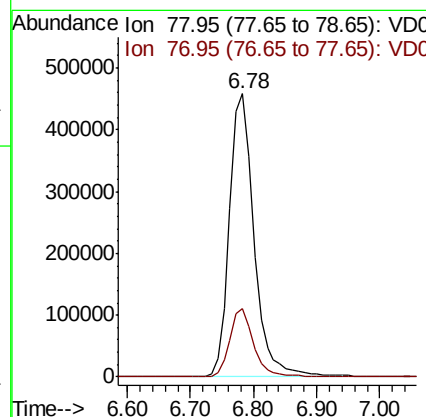
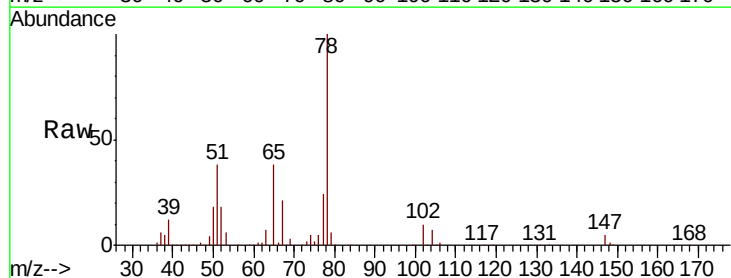
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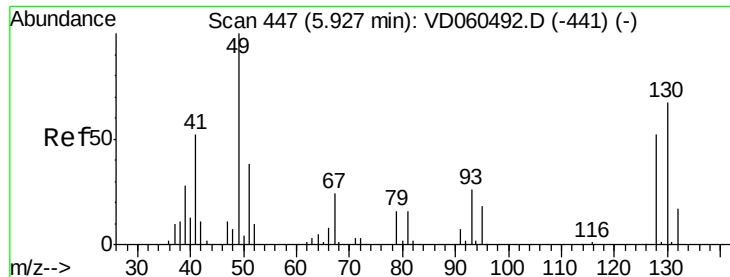
MMDadoda
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#40
Benzene
Concen: 21.384 ug/l
RT: 6.78 min Scan# 534
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3





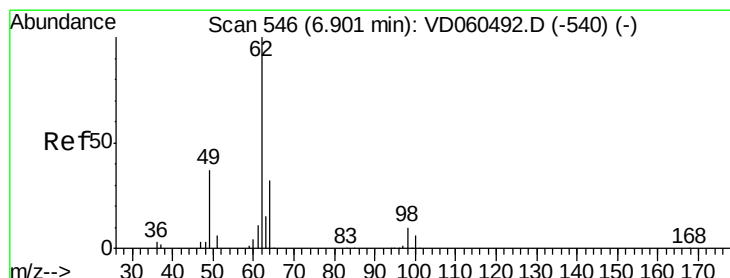
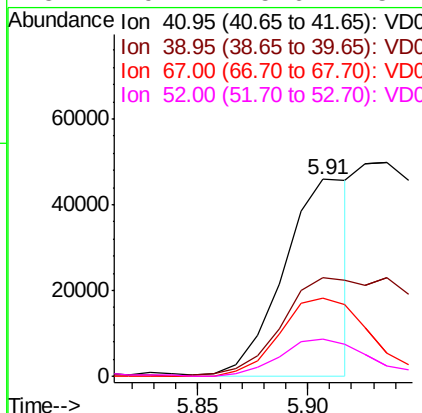
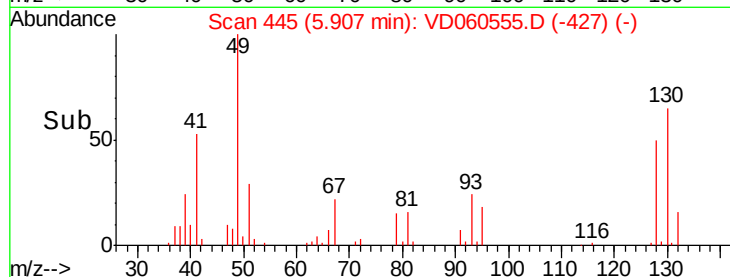
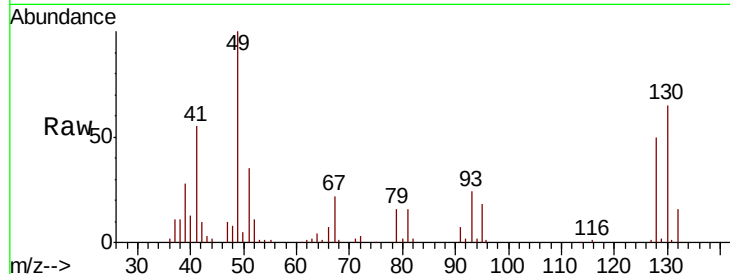
#41
Methacrylonitrile
Concen: 18.273 ug/l m
RT: 5.91 min Scan# 445
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	49.9	42.6	63.8
67	39.9	36.2	54.4
52	19.1	15.6	23.4

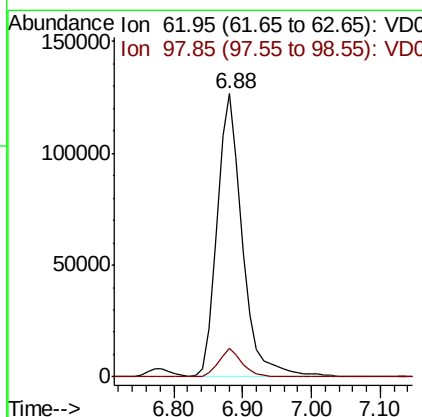
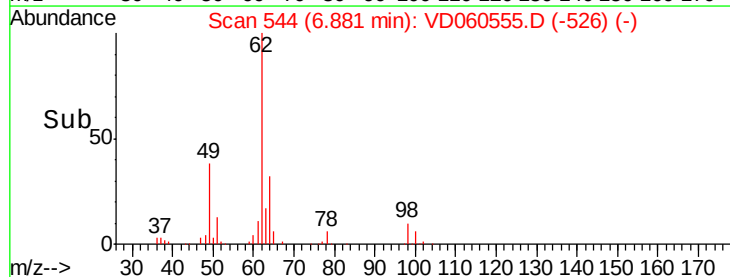
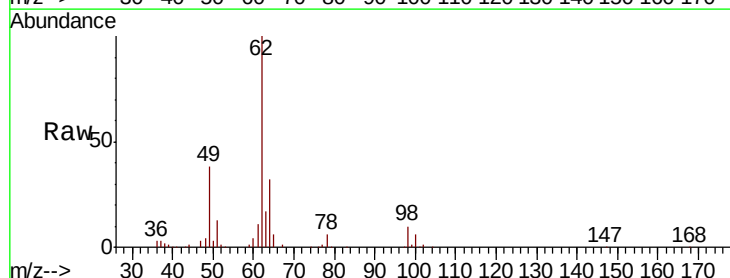
Manual Integrations
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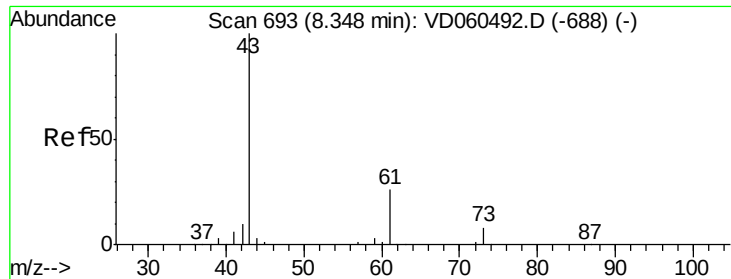
MMDadoda
12/14/2018 11:25:34 AM



#42
1,2-Dichloroethane
Concen: 21.447 ug/l
RT: 6.88 min Scan# 544
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	20.2





#43

Isopropyl Acetate

Concen: 21.493 ug/l

RT: 8.33 min Scan# 691

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

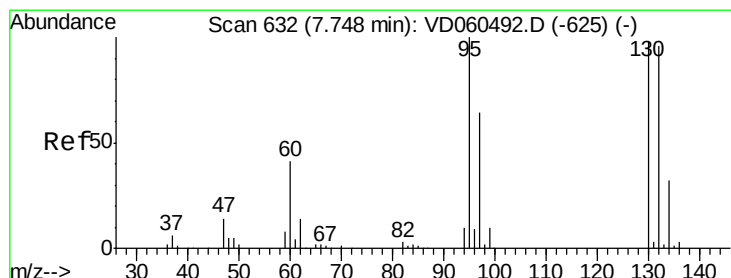
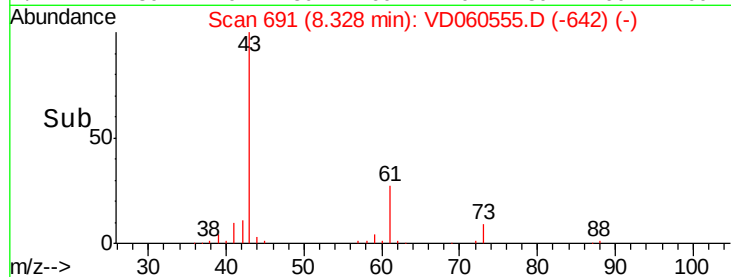
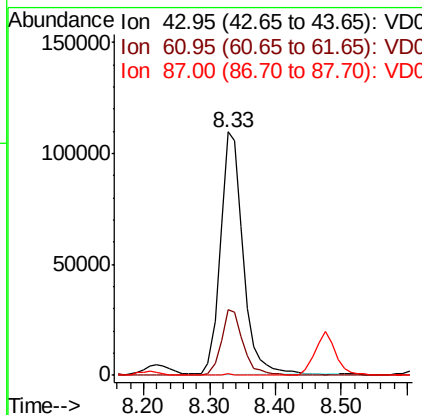
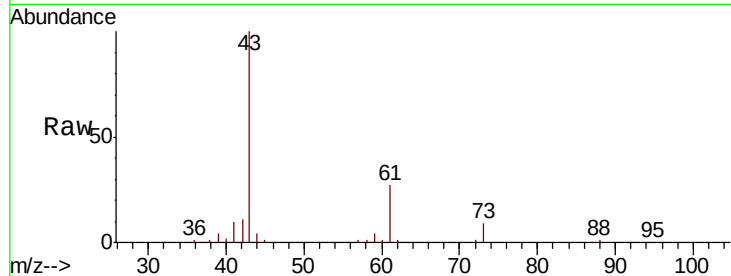
ClientSampleId :

VD1213SBS01

Tot Ion:	43	Resp:	262288
Ion	Ratio	Lower	Upper
43	100		
61	26.8	21.0	31.4
87	0.5	0.2	0.2#

Manual Integrations
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#44

Trichloroethene

Concen: 21.033 ug/l

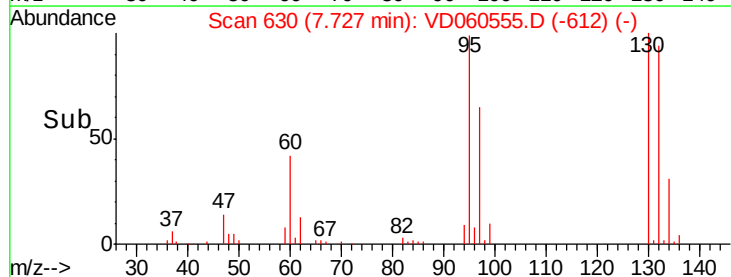
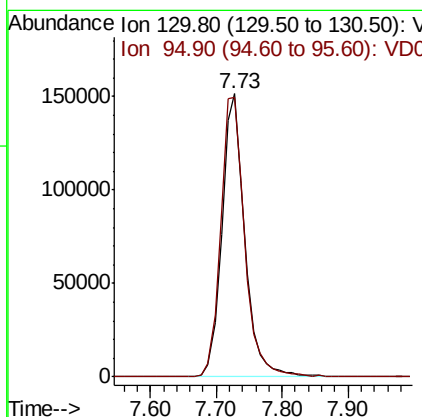
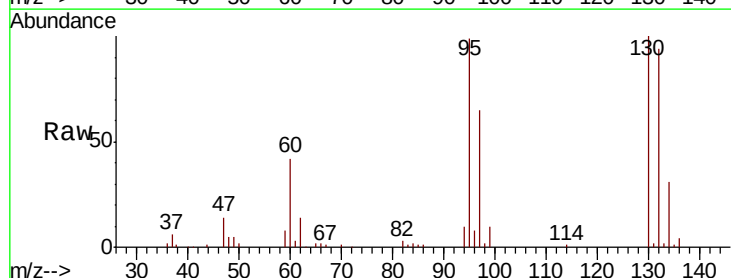
RT: 7.73 min Scan# 630

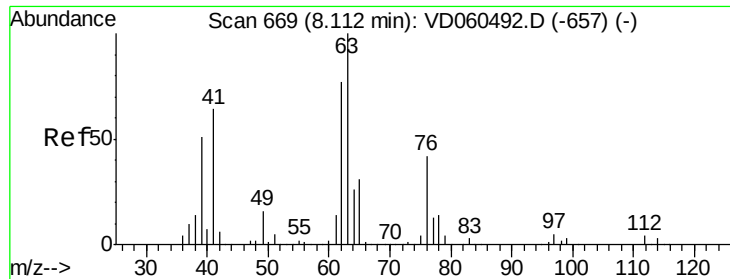
Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Tgt Ion:	130	Resp:	366189
Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	203.8





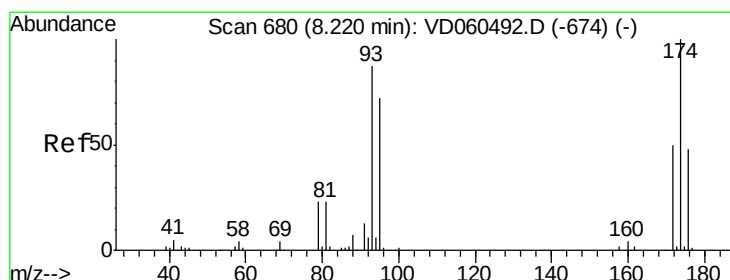
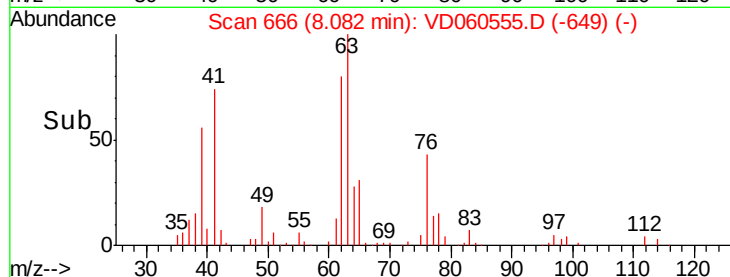
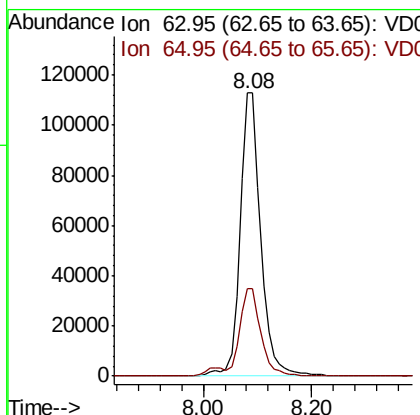
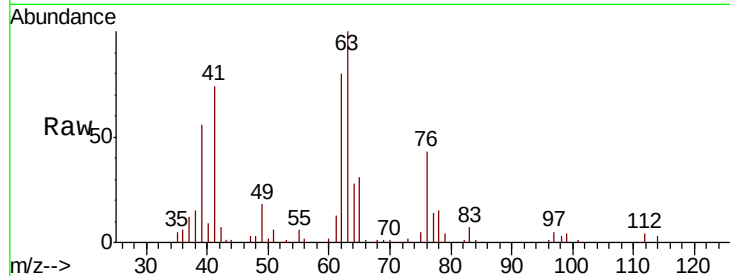
#45
 1,2-Dichloropropane
 Concen: 20.834 ug/l
 RT: 8.08 min Scan# 666
 Delta R.T. -0.03 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

Tot Ion: 63 Resp: 300188
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.6 37.0

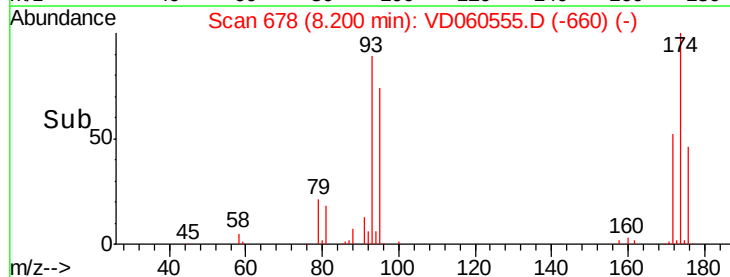
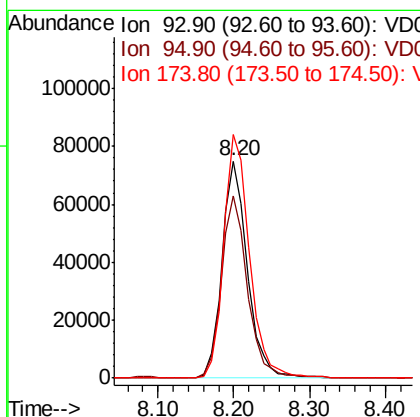
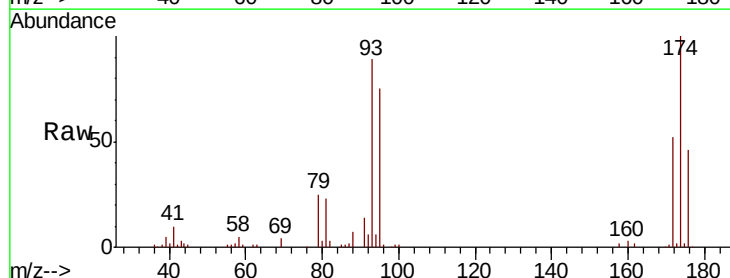
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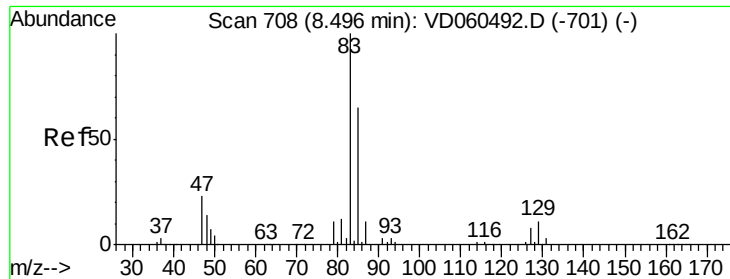
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#46
 Dibromomethane
 Concen: 20.856 ug/l
 RT: 8.20 min Scan# 678
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion: 93 Resp: 173619
 Ion Ratio Lower Upper
 93 100
 95 84.0 65.6 98.4
 174 112.2 91.7 137.5





#47

Bromodichloromethane

Concen: 21.148 ug/l

RT: 8.48 min Scan# 706

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 83 Resp: 417732

Ion Ratio Lower Upper

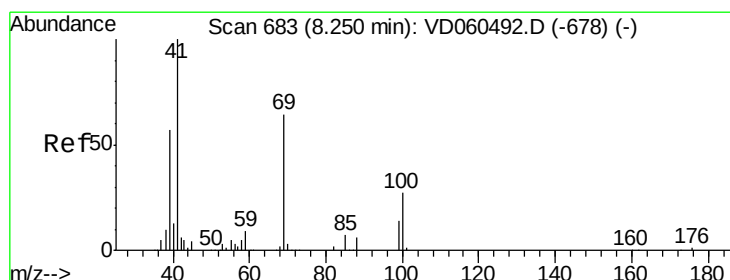
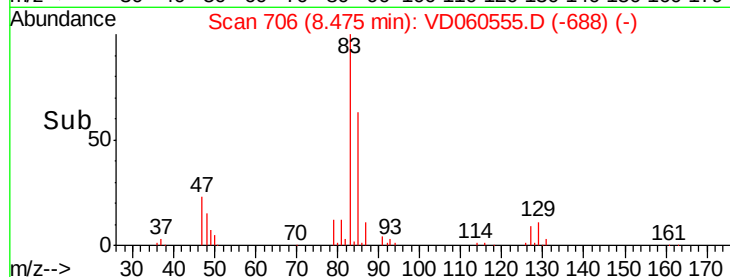
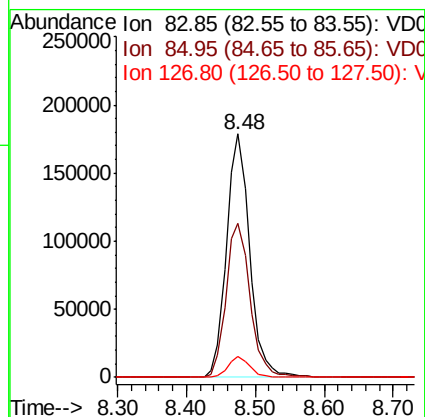
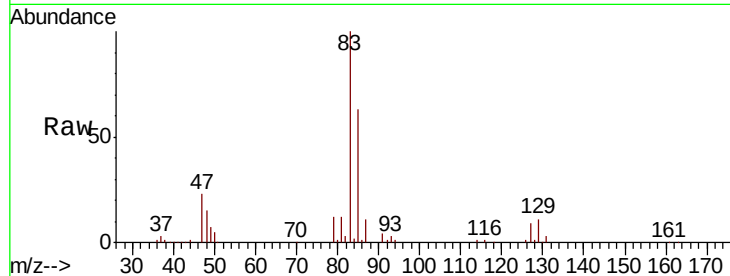
83 100

85 63.3 52.2 78.4

127 8.7 6.7 10.1

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#48

Methyl methacrylate

Concen: 22.629 ug/l

RT: 8.23 min Scan# 681

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

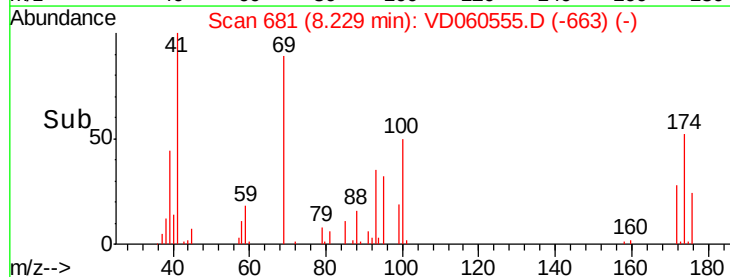
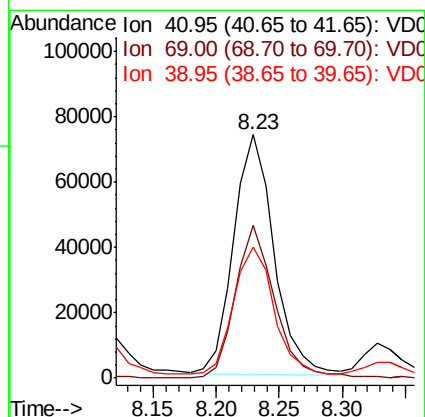
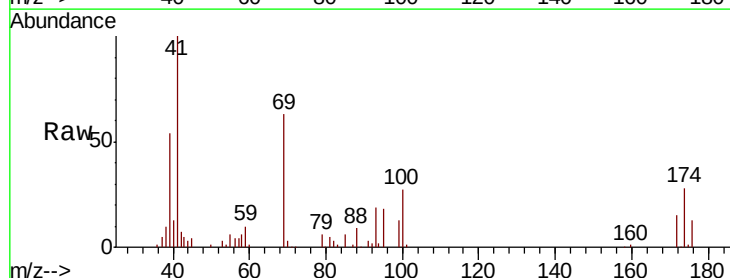
Tgt Ion: 41 Resp: 163400

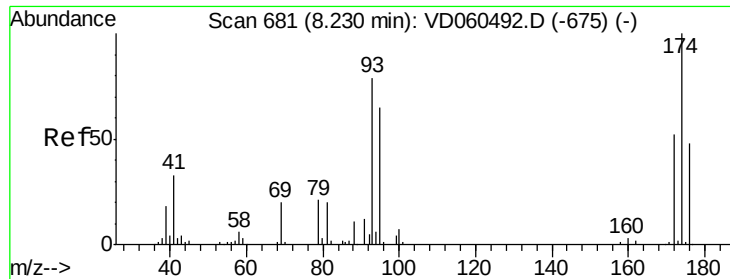
Ion Ratio Lower Upper

41 100

69 62.6 50.2 75.4

39 53.6 46.1 69.1





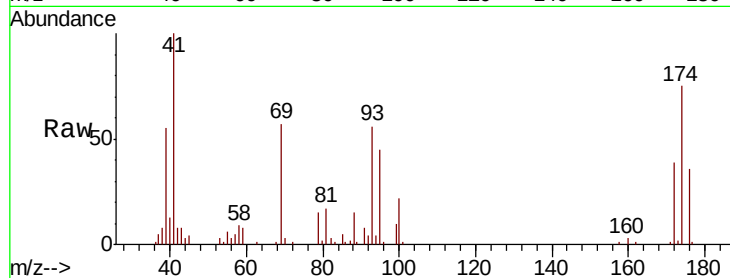
#49
1,4-Dioxane
Concen: 447.776 ug/l
RT: 8.22 min Scan# 680
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

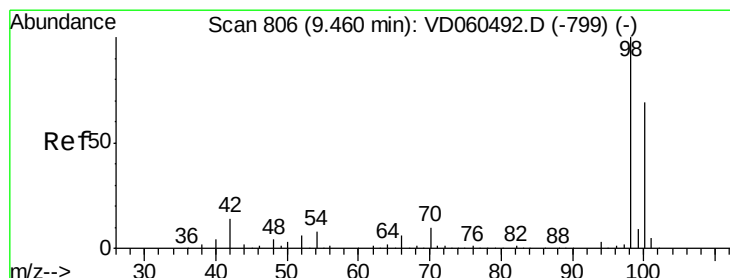
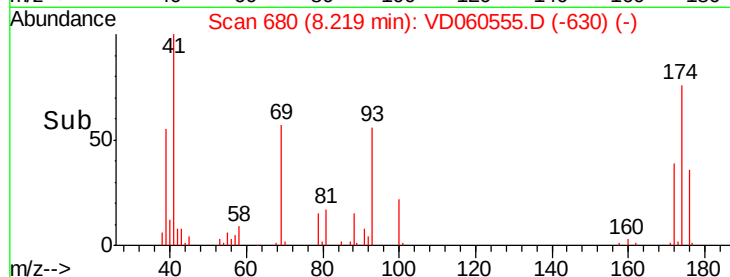
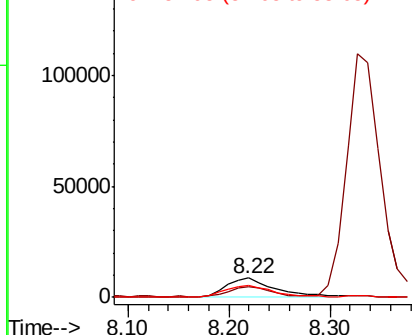
Tot Ion	Ratio	Lower	Upper
88	100		
43	55.7	32.9	49.3#
58	59.3	47.7	71.5

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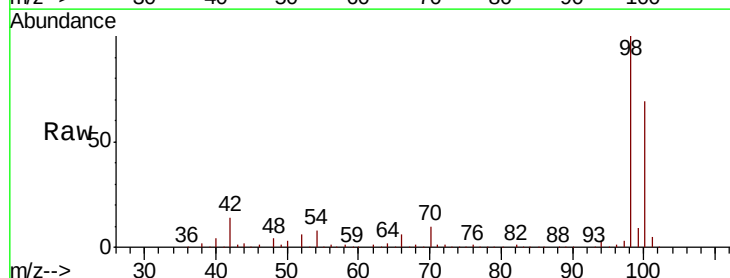


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

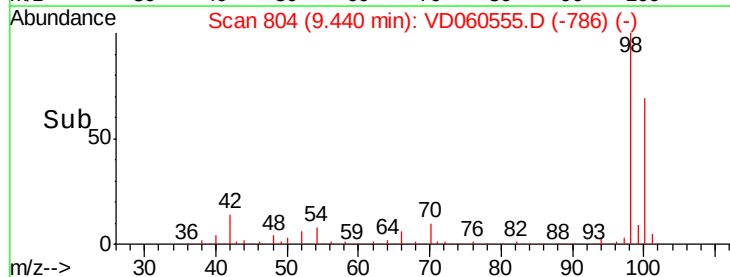
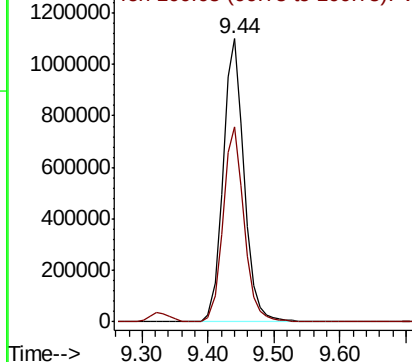


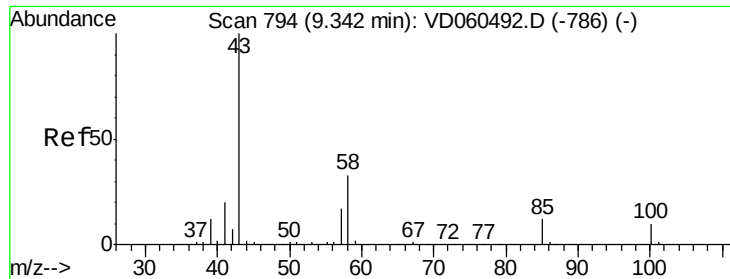
#50
Toluene-d8
Concen: 447.776 ug/l
RT: 9.44 min Scan# 804
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.9	55.7	83.5



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





#51

4-Methyl-2-Pentanone

Concen: 106.799 ug/l

RT: 9.32 min Scan# 792

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 43 Resp: 810717

Ion Ratio Lower Upper

43 100

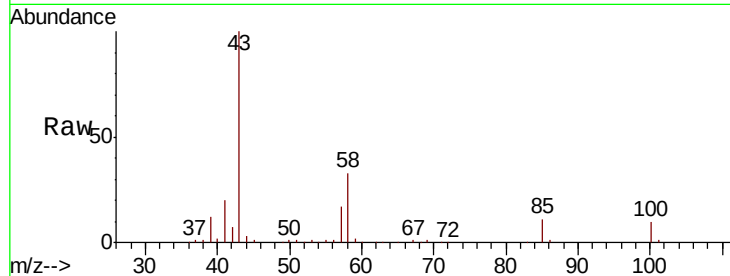
58 33.0 26.3 39.5

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.32

400000

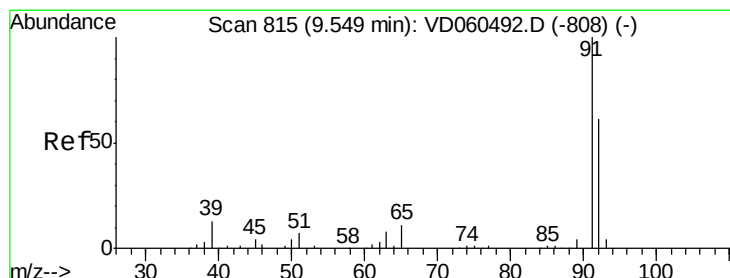
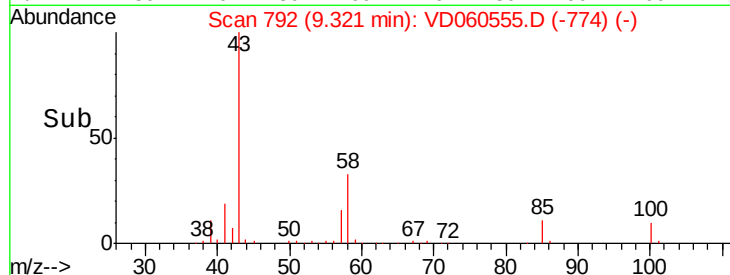
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 21.688 ug/l

RT: 9.53 min Scan# 813

Delta R.T. -0.02 min

Lab File: VD060555.D

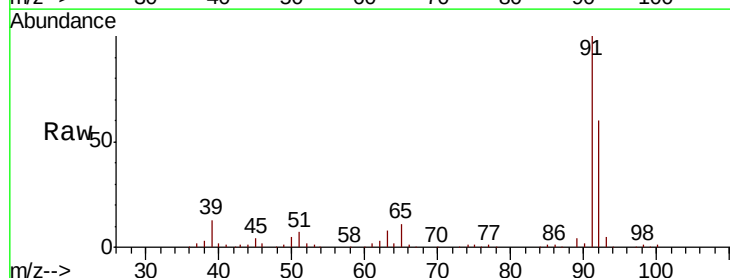
Acq: 13 Dec 2018 12:28

Tgt Ion: 92 Resp: 789722

Ion Ratio Lower Upper

92 100

91 166.6 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

9.53

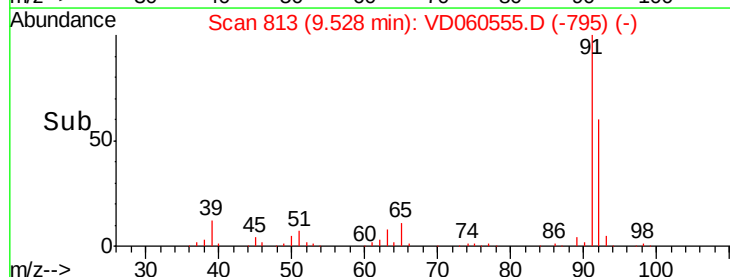
600000

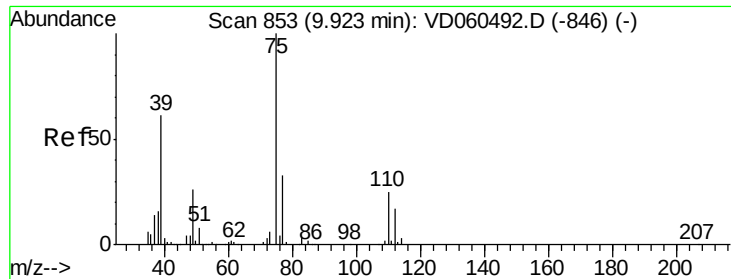
400000

200000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 21.607 ug/l

RT: 9.90 min Scan# 851

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 75 Resp: 350686

Ion Ratio Lower Upper

75 100

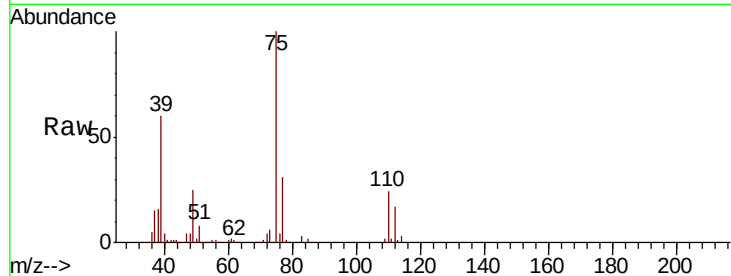
77 30.7 26.2 39.2

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

9.90

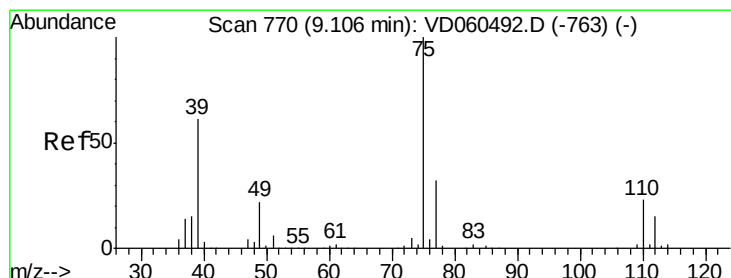
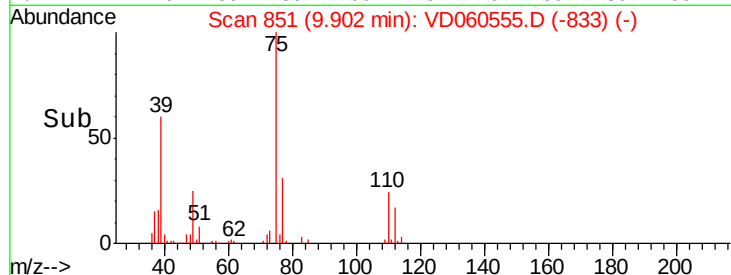
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 21.336 ug/l

RT: 9.09 min Scan# 768

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

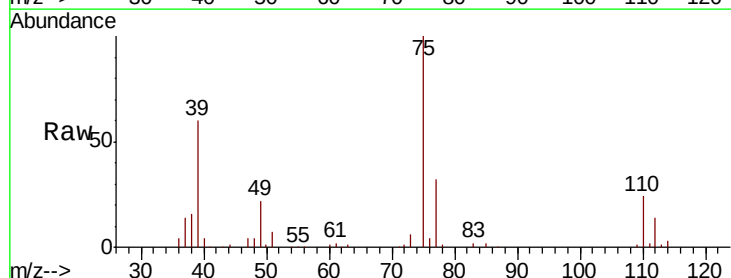
Tgt Ion: 75 Resp: 454982

Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4

39 60.5 48.6 73.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

9.09

250000

200000

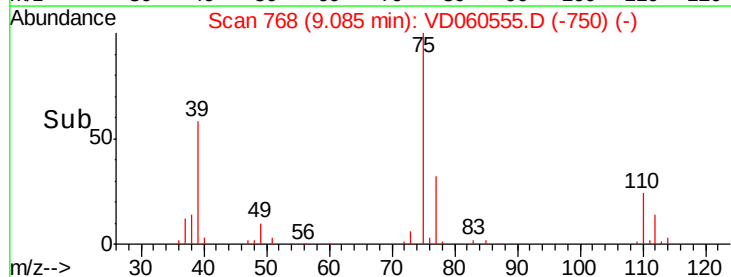
150000

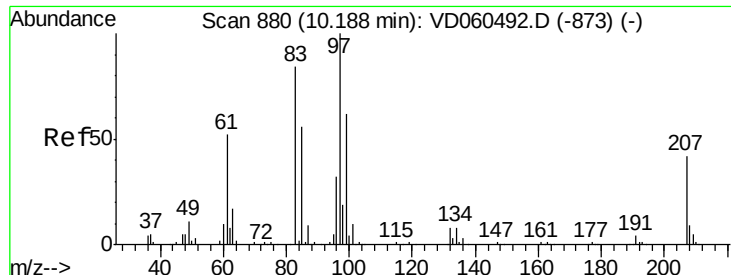
100000

50000

0

Time-->





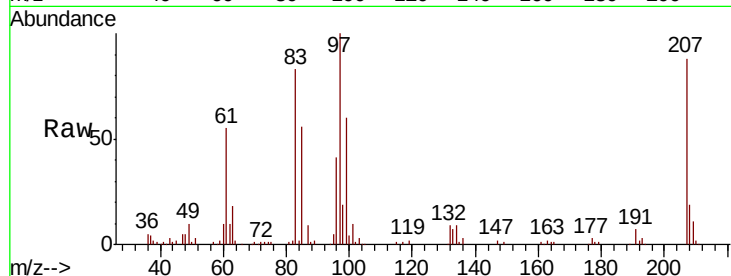
#55
 1,1,2-Trichloroethane
 Concen: 21.011 ug/l
 RT: 10.17 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

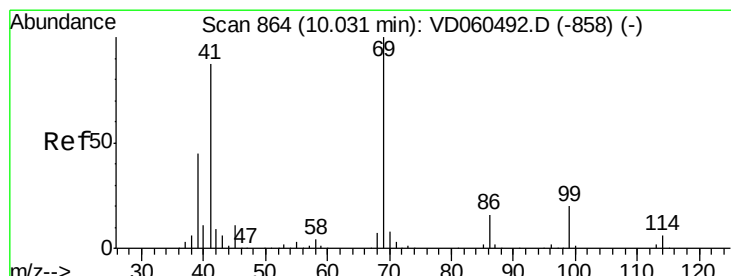
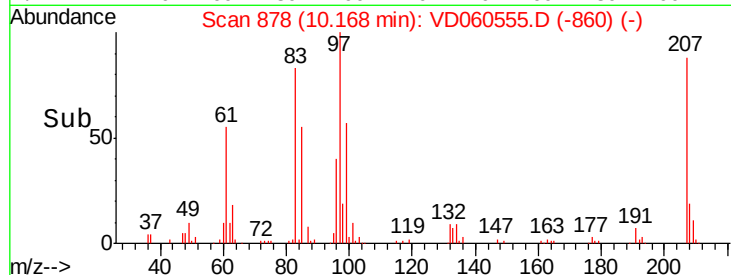
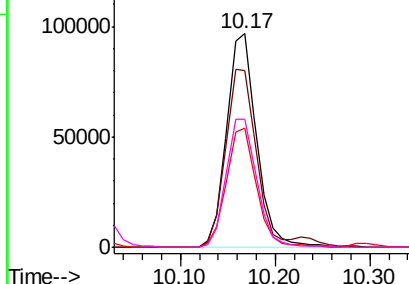
Tot Ion	Ratio	Resp	Lower	Upper
97	100	213058		
83	83.0	67.2	100.8	
85	55.8	44.5	66.7	
99	59.8	49.3	73.9	

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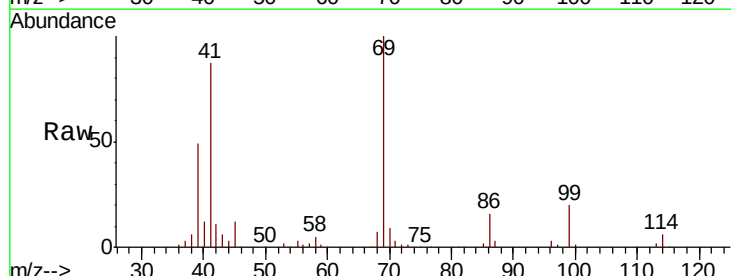


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

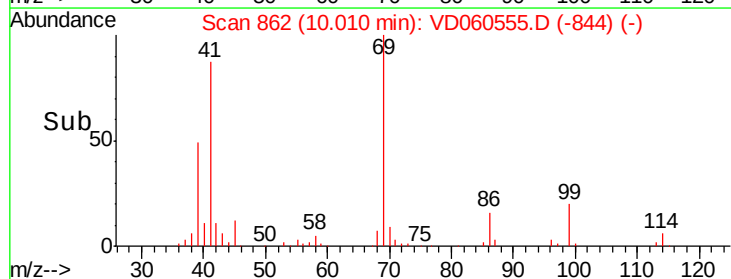
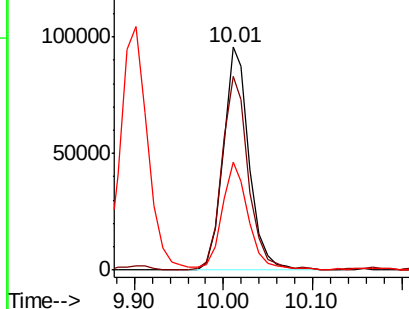


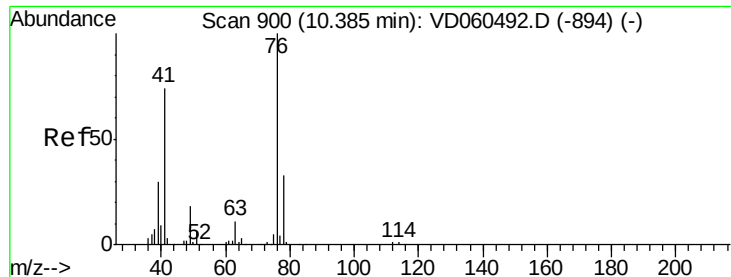
#56
 Ethyl methacrylate
 Concen: 21.282 ug/l
 RT: 10.01 min Scan# 862
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	195309		
41	86.7	69.8	104.8	
39	48.5	37.5	56.3	



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC





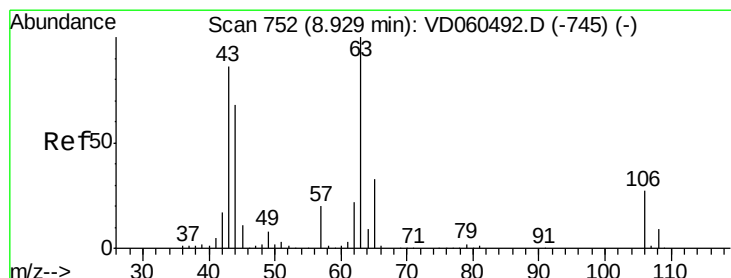
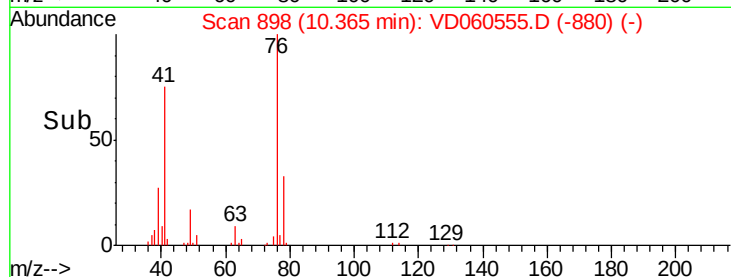
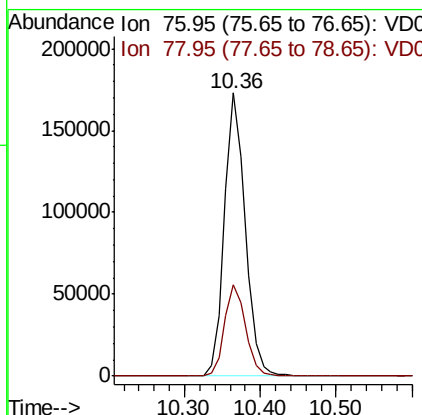
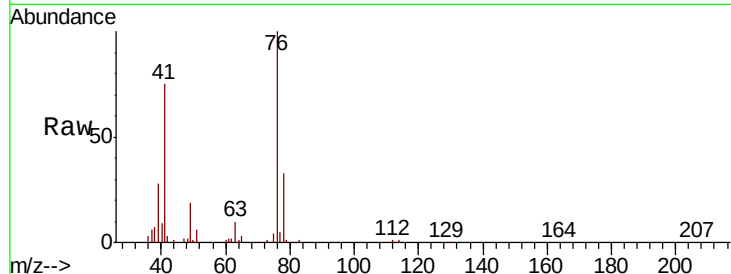
#57
 1,3-Dichloropropane
 Concen: 21.082 ug/l
 RT: 10.36 min Scan# 898
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

Tot Ion: 76 Resp: 330459
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.1 39.1

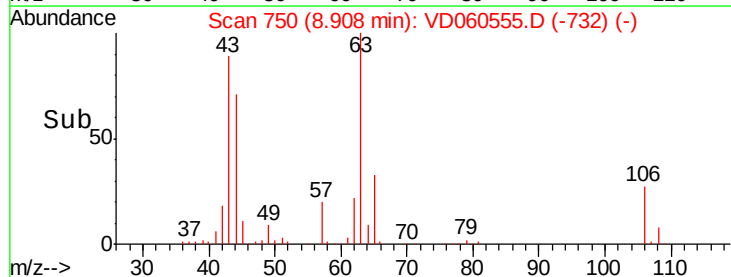
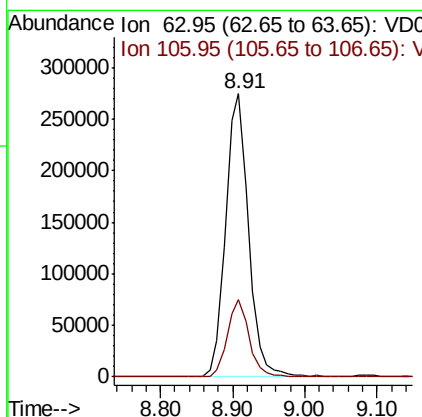
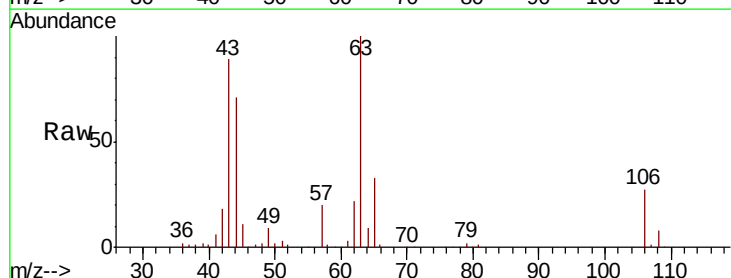
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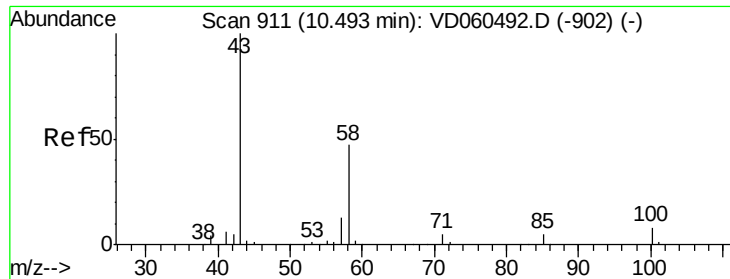
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#58
 2-Chloroethyl Vinyl ether
 Concen: 109.706 ug/l
 RT: 8.91 min Scan# 750
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion: 63 Resp: 602401
 Ion Ratio Lower Upper
 63 100
 106 27.3 21.6 32.4





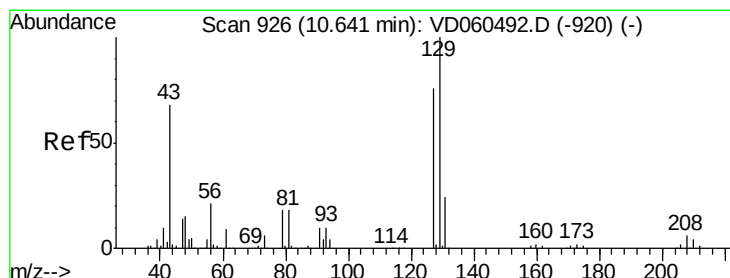
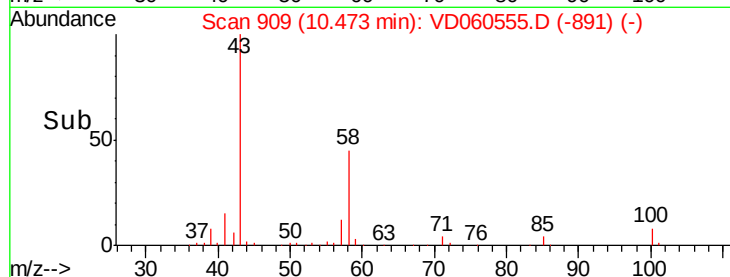
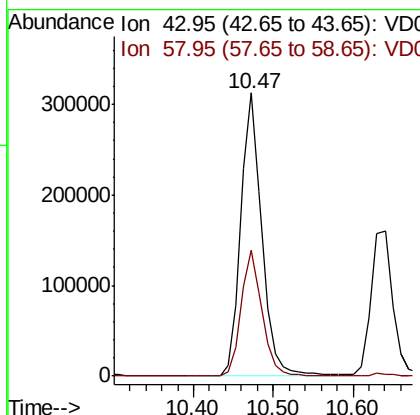
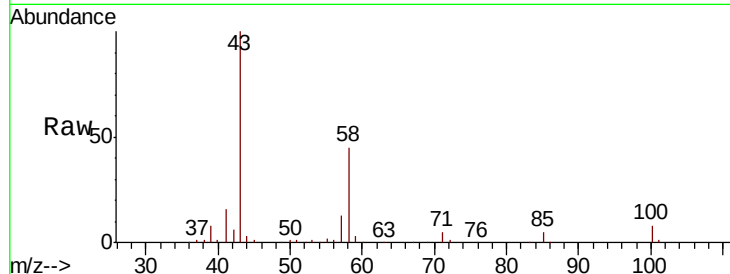
#59
2-Hexanone
Concen: 108.060 ug/l
RT: 10.47 min Scan# 909
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion: 43 Resp: 573363
Ion Ratio Lower Upper
43 100
58 44.7 23.4 70.2

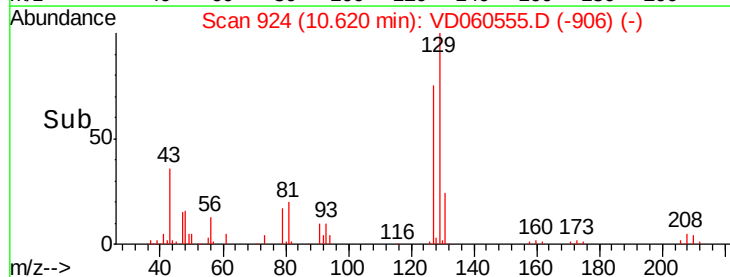
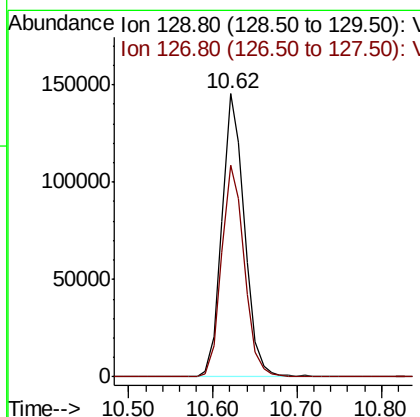
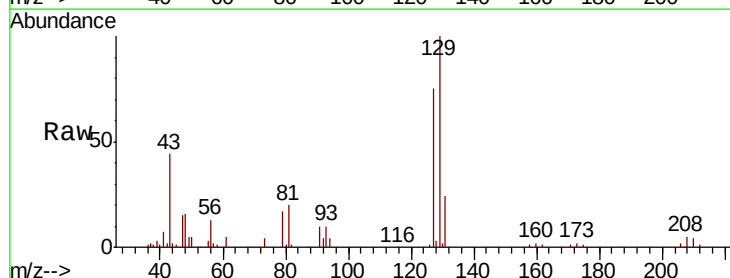
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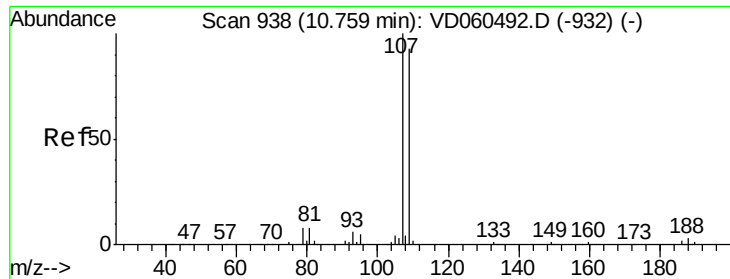
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#60
Dibromochloromethane
Concen: 21.229 ug/l
RT: 10.62 min Scan# 924
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion:129 Resp: 269139
Ion Ratio Lower Upper
129 100
127 74.8 38.1 114.3





#61

1,2-Dibromoethane

Concen: 21.266 ug/l

RT: 10.74 min Scan# 936

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBSD01

Tot Ion: 107 Resp: 219761

Ion Ratio Lower Upper

107 100

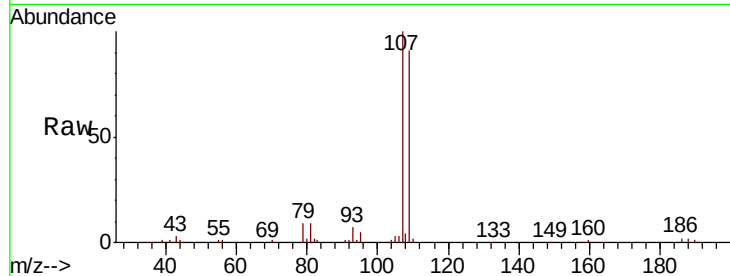
109 91.1 74.7 112.1

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

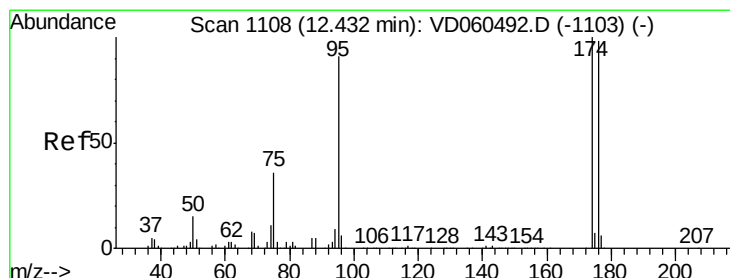
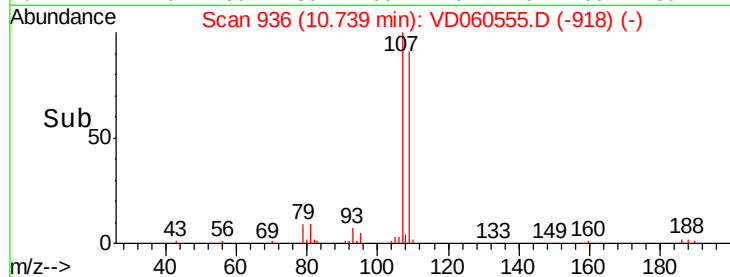
10.74

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 21.266 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

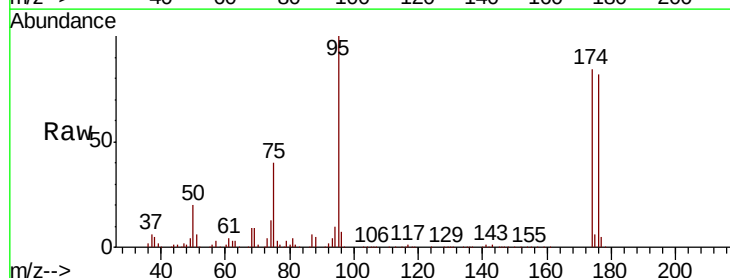
Tgt Ion: 95 Resp: 851210

Ion Ratio Lower Upper

95 100

174 84.0 0.0 219.4

176 81.7 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.41

800000

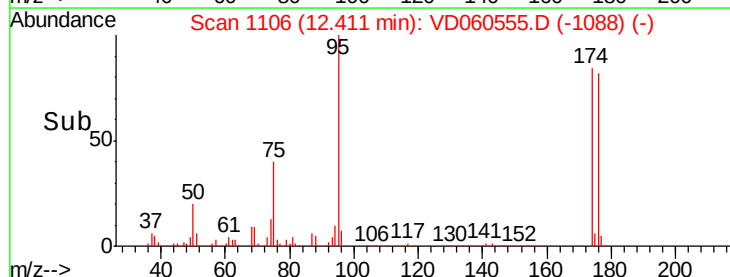
600000

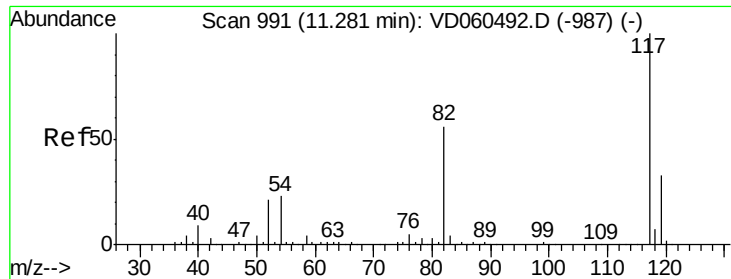
400000

200000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 990

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion:117 Resp: 1840902

Ion Ratio Lower Upper

117 100

82 51.7 45.2 67.8

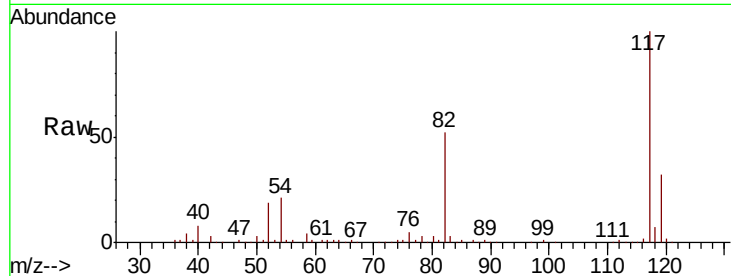
119 32.4 26.1 39.1

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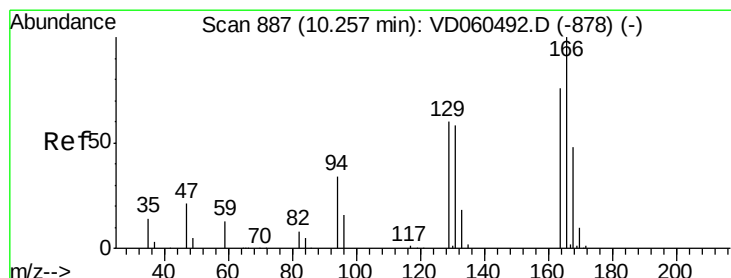
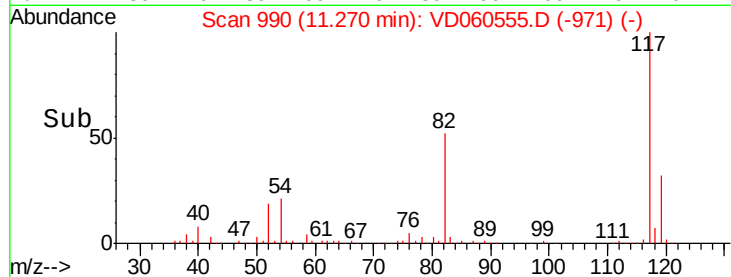
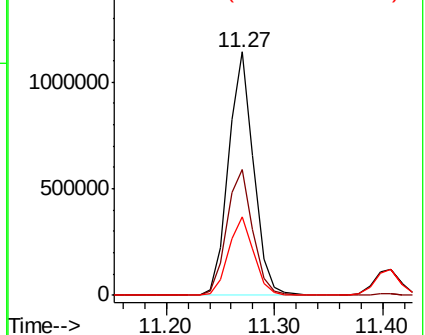
12/14/2018 11:25:34 AM



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): VD

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 20.829 ug/l

RT: 10.24 min Scan# 885

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Tgt Ion:164 Resp: 339526

Ion Ratio Lower Upper

164 100

166 128.9 105.0 157.6

129 79.4 63.0 94.4

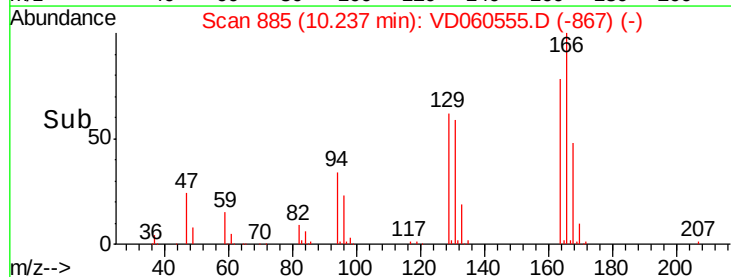
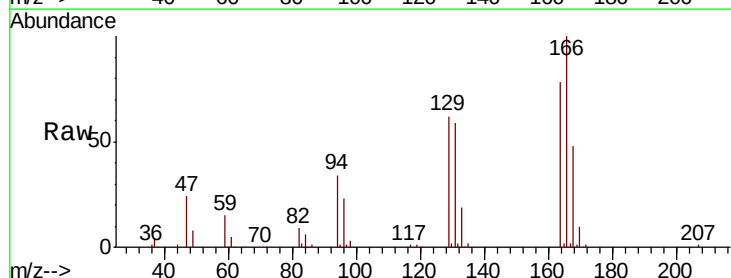
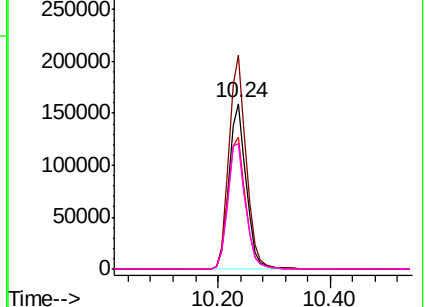
131 75.6 60.6 90.8

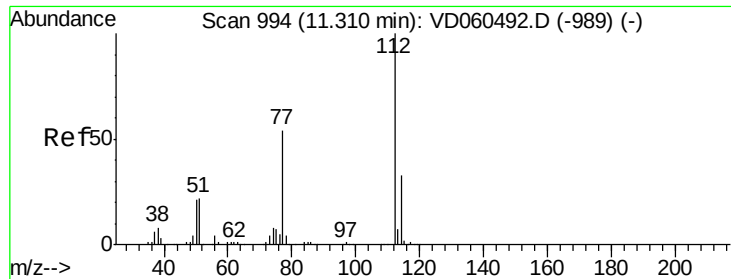
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





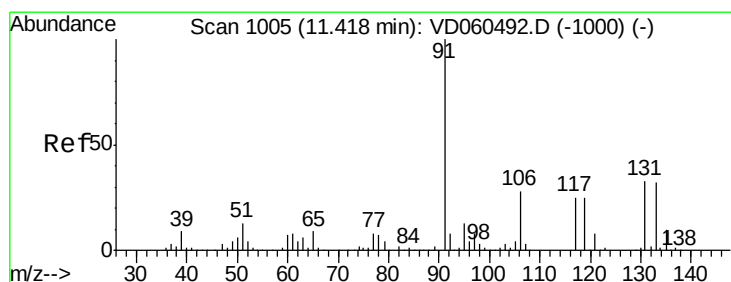
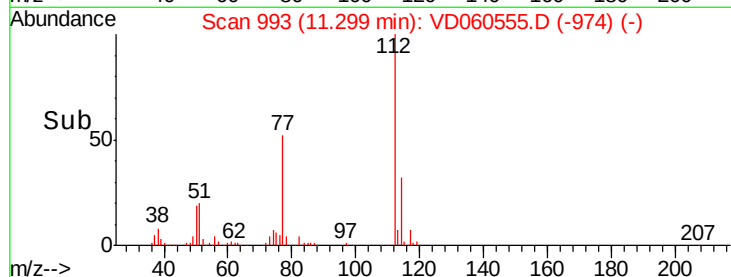
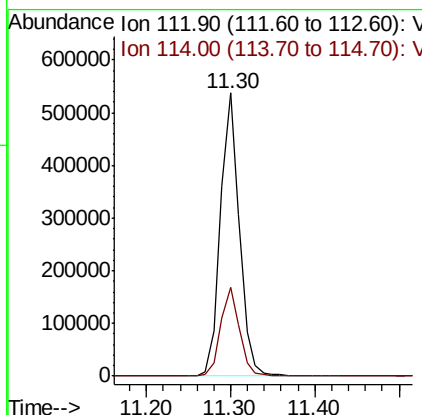
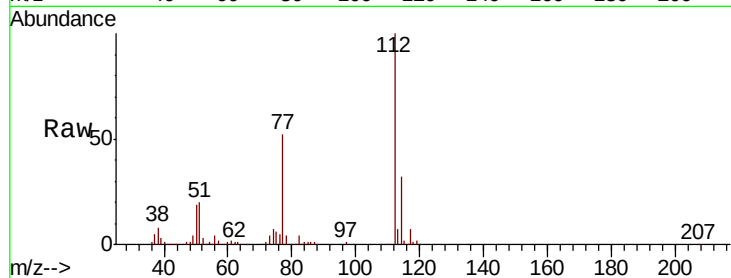
#65
Chlorobenzene
Concen: 21.531 ug/l
RT: 11.30 min Scan# 993
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.4

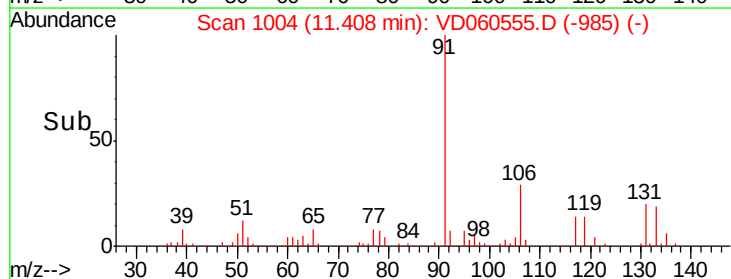
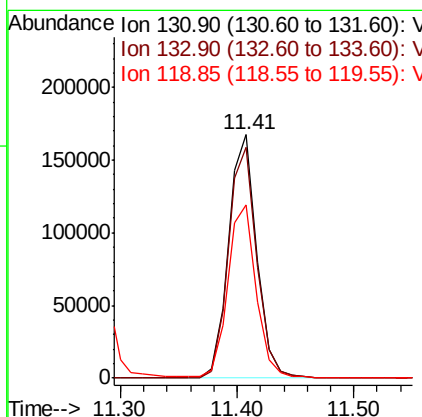
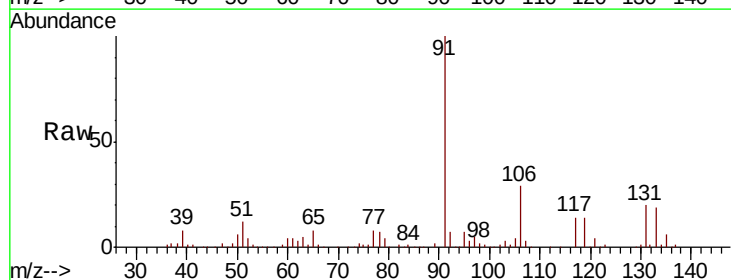
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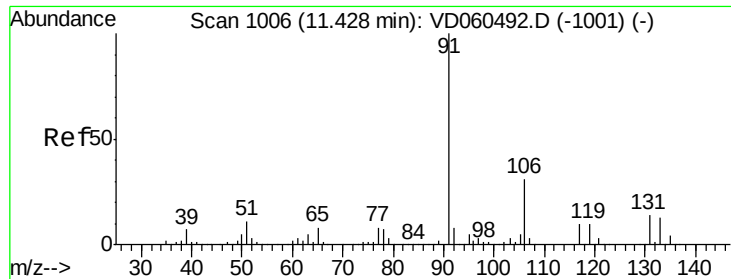
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.226 ug/l
RT: 11.41 min Scan# 1004
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	49.1	147.3
119	71.1	37.5	112.3





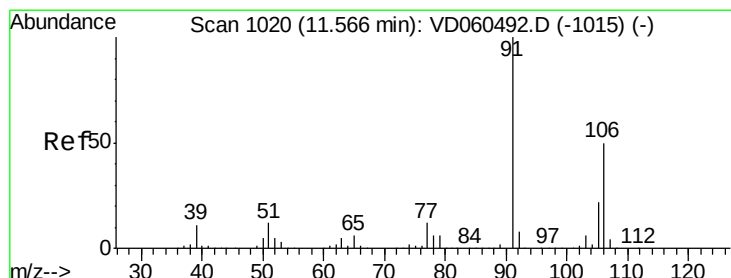
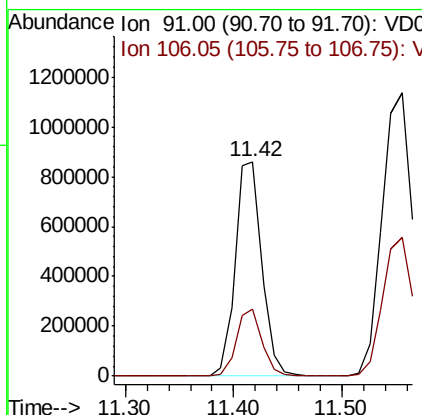
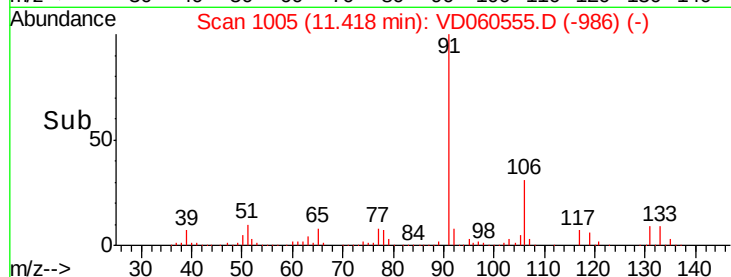
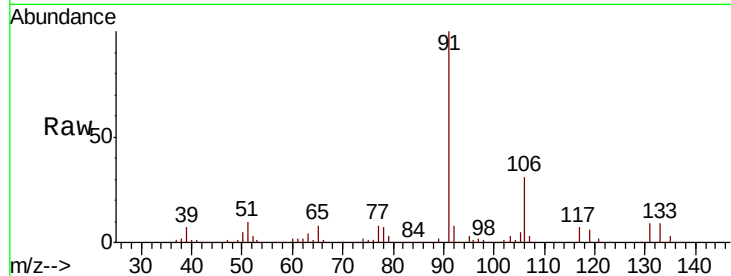
#67
Ethyl Benzene
Concen: 22.197 ug/l
RT: 11.42 min Scan# 1005
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion: 91 Resp: 1474512
Ion Ratio Lower Upper
91 100
106 31.3 24.6 37.0

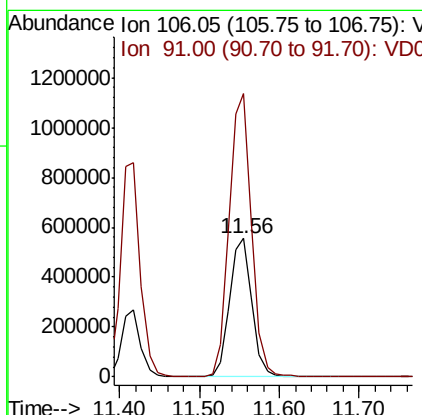
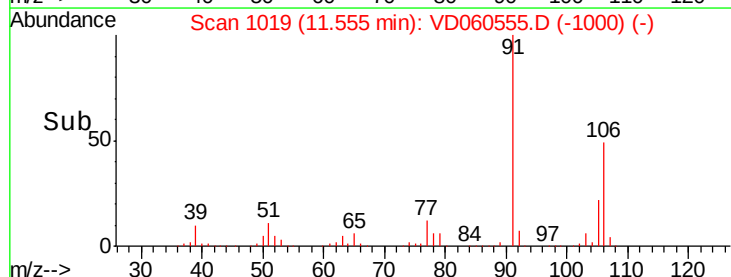
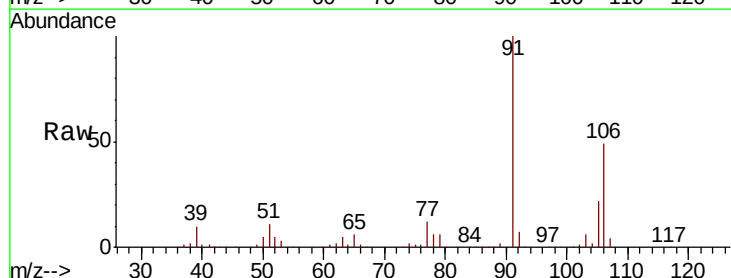
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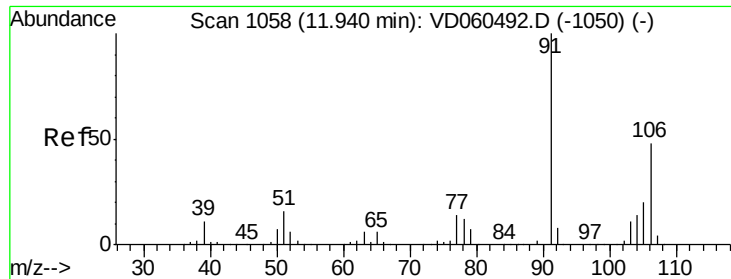
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#68
m/p-Xylenes
Concen: 44.000 ug/l
RT: 11.56 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion: 106 Resp: 1081350
Ion Ratio Lower Upper
106 100
91 204.8 160.5 240.7





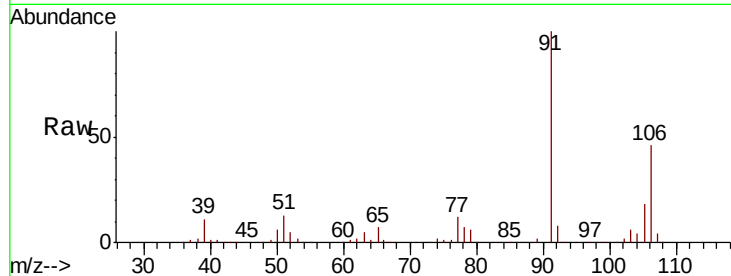
#69
o-Xylene
Concen: 21.936 ug/l
RT: 11.92 min Scan# 1056
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

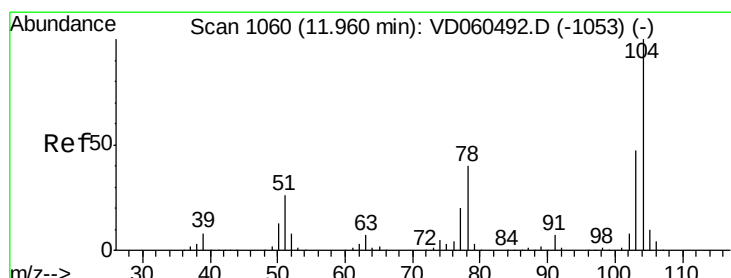
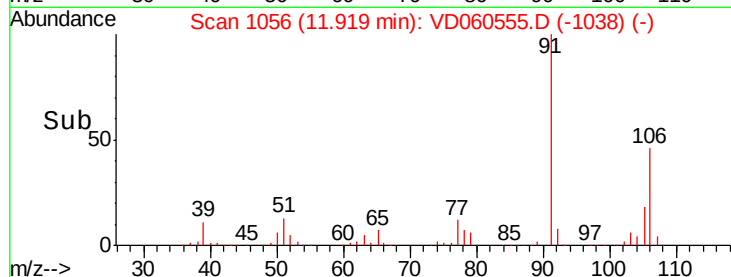
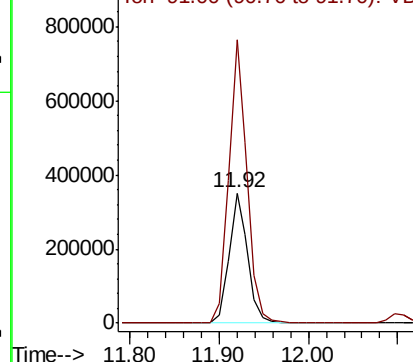
Tot Ion:106 Resp: 513770
Ion Ratio Lower Upper
106 100
91 218.1 103.4 310.1

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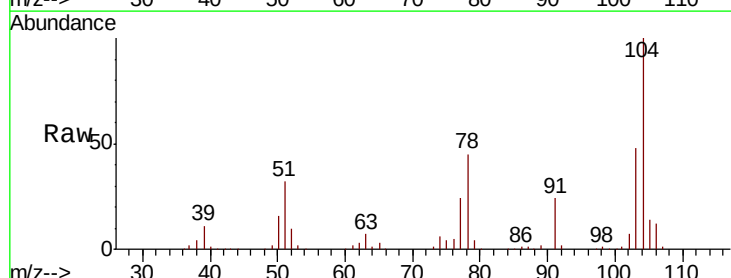


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

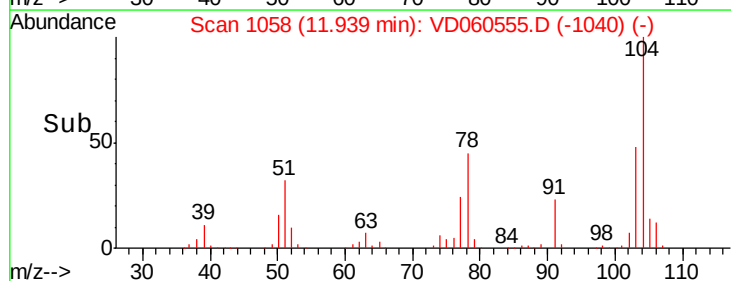
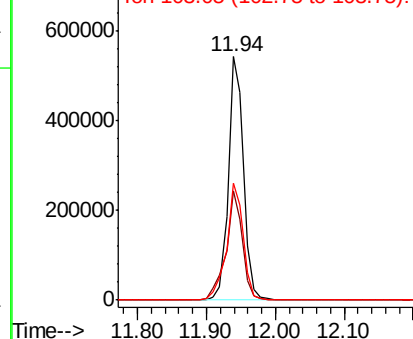


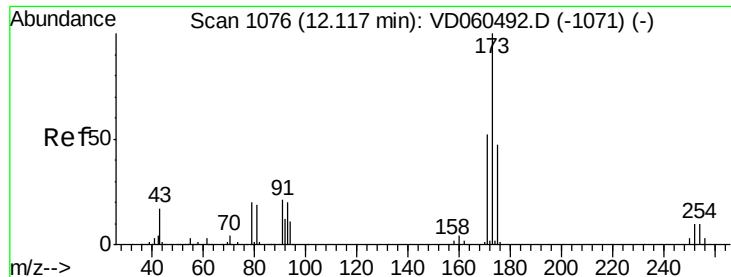
#70
Styrene
Concen: 21.910 ug/l
RT: 11.94 min Scan# 1058
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion:104 Resp: 823674
Ion Ratio Lower Upper
104 100
78 45.0 32.1 48.1
103 47.8 37.2 55.8



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





#71

Bromoform

Concen: 20.096 ug/l

RT: 12.11 min Scan# 1075

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion:173 Resp: 168298

Ion Ratio Lower Upper

173 100

175 50.6 23.5 70.6

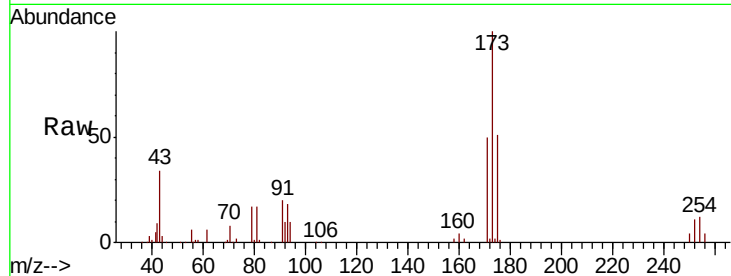
254 12.3 7.8 11.8#

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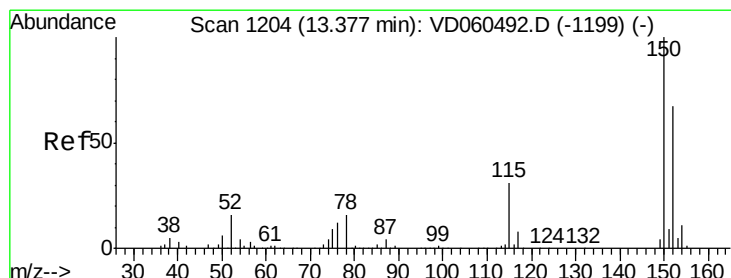
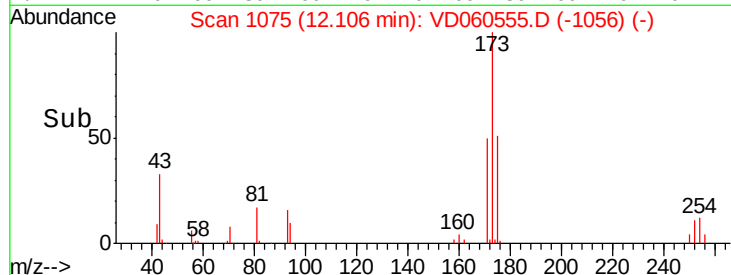
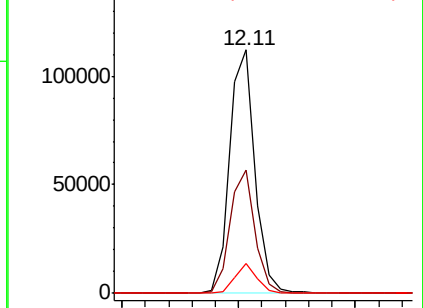
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Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

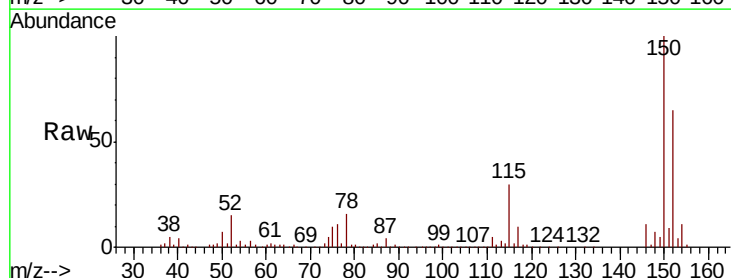
Tgt Ion:152 Resp: 936224

Ion Ratio Lower Upper

152 100

115 47.0 24.6 74.0

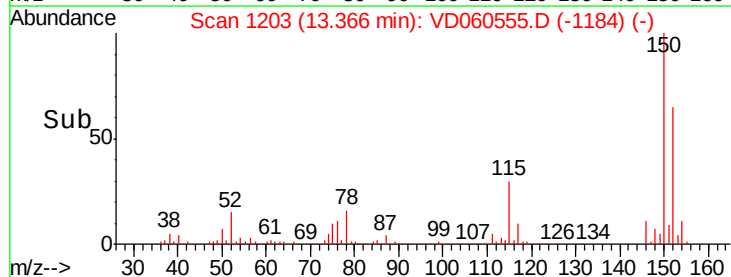
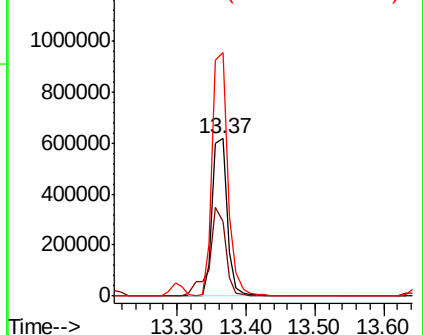
150 154.3 0.0 309.0

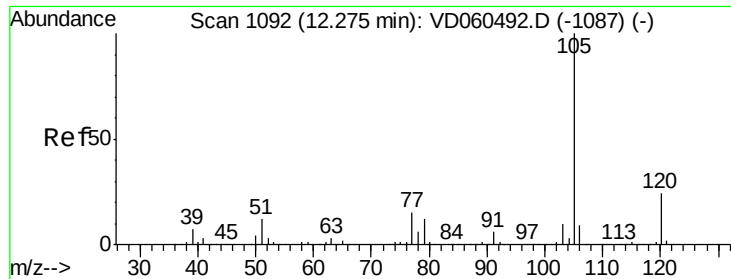


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





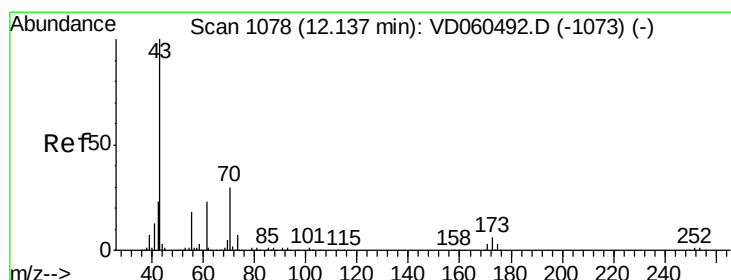
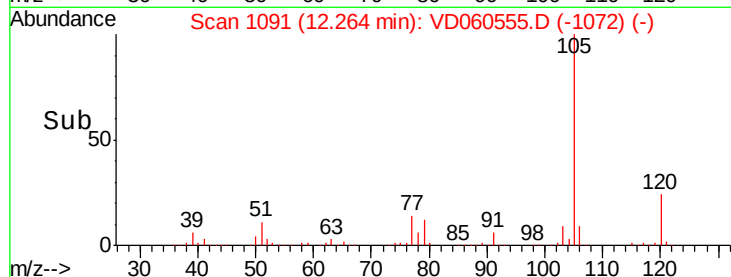
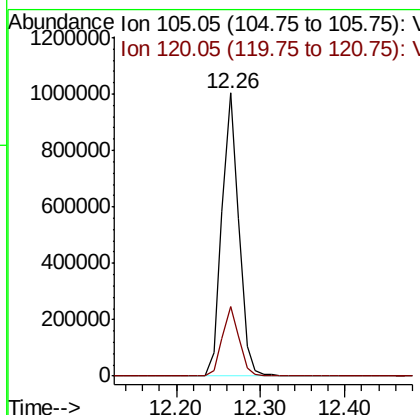
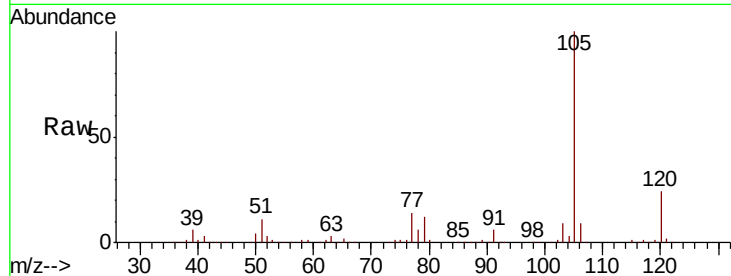
#73
Isopropylbenzene
Concen: 21.176 ug/l
RT: 12.26 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion:105 Resp: 1402897
Ion Ratio Lower Upper
105 100
120 24.4 11.9 35.9

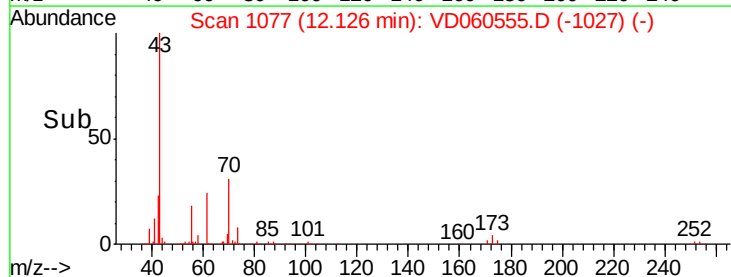
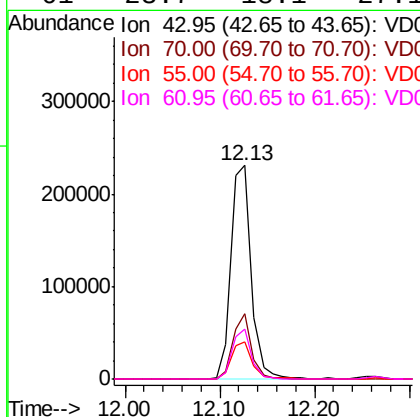
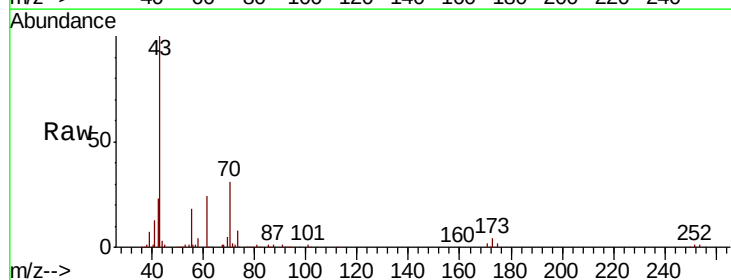
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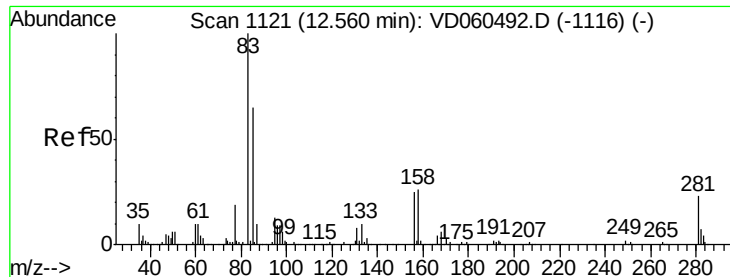
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#74
N-ethyl acetate
Concen: 21.414 ug/l
RT: 12.13 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion: 43 Resp: 342869
Ion Ratio Lower Upper
43 100
70 30.7 23.8 35.8
55 17.6 14.2 21.2
61 23.7 18.1 27.1





#75

1,1,2,2-Tetrachloroethane

Concen: 20.967 ug/l

RT: 12.55 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

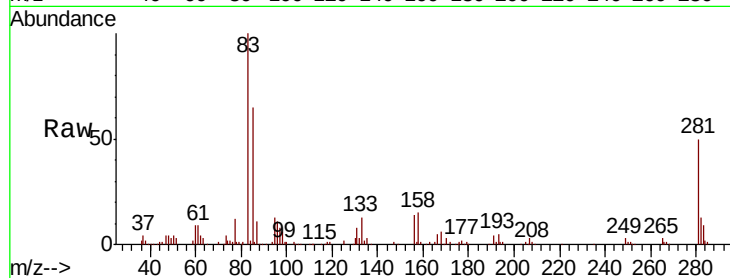
ClientSampleId :

VD1213SBSD01

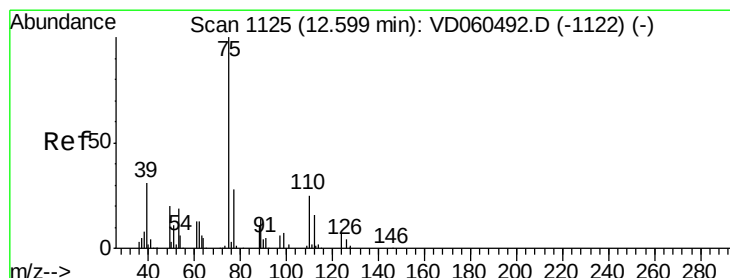
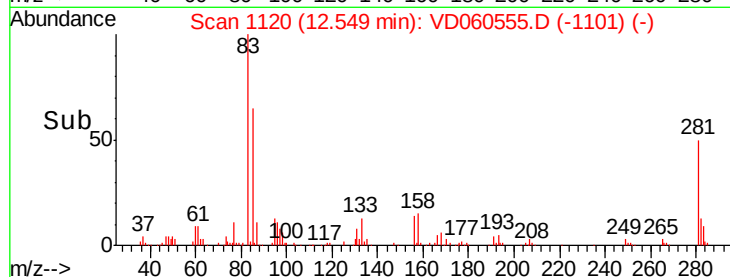
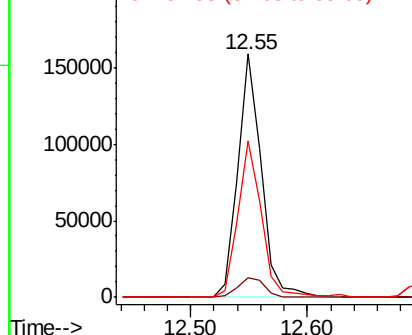
Tot Ion:	83	Resp:	222381
Ion Ratio	Lower	Upper	
83	100		
131	8.2	3.8	11.4
85	64.5	32.3	96.9

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Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.791 ug/l

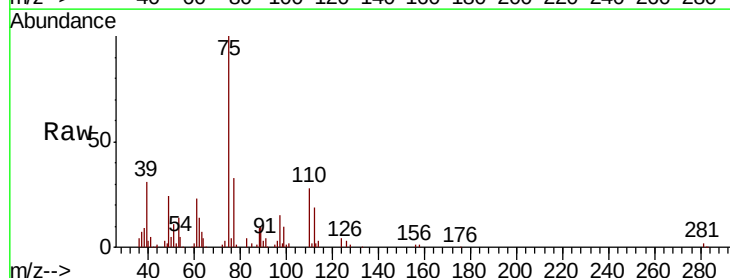
RT: 12.59 min Scan# 1124

Delta R.T. -0.01 min

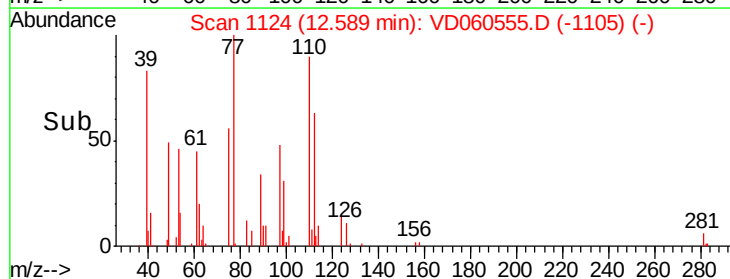
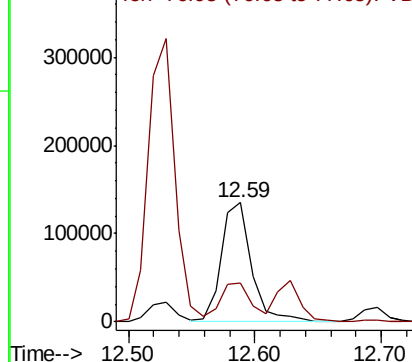
Lab File: VD060555.D

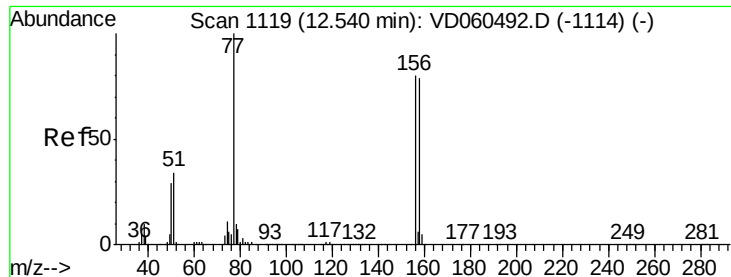
Acq: 13 Dec 2018 12:28

Tgt Ion:	75	Resp:	220554
Ion Ratio	Lower	Upper	
75	100		
77	32.5	16.4	49.4



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





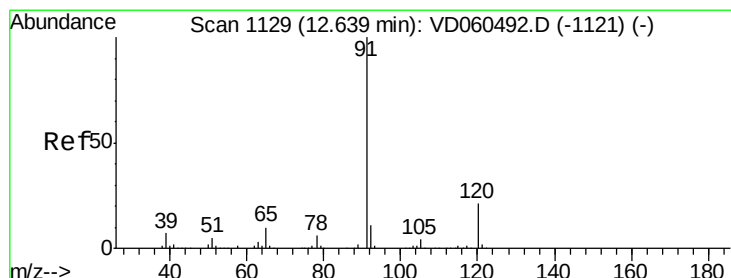
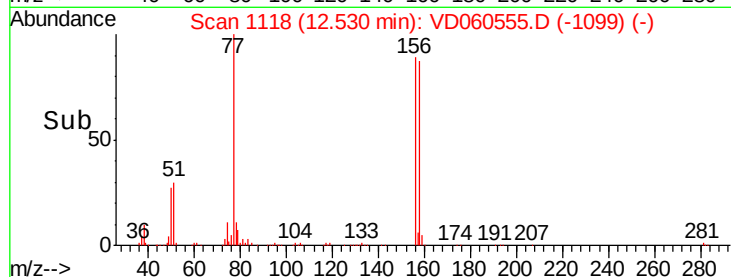
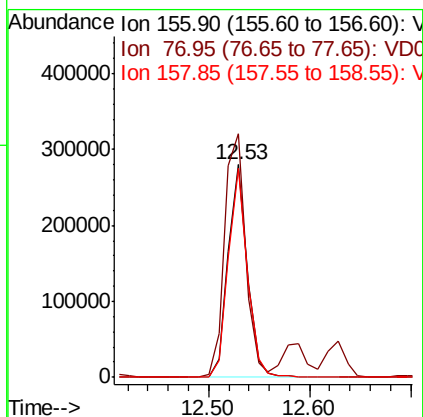
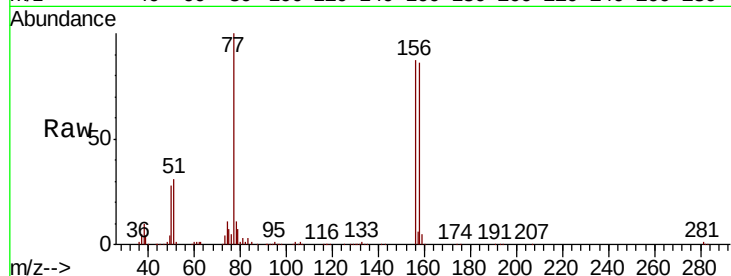
#77
Bromobenzene
Concen: 21.286 ug/l
RT: 12.53 min Scan# 1118
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	114.5	62.5	187.6
158	98.3	49.4	148.2

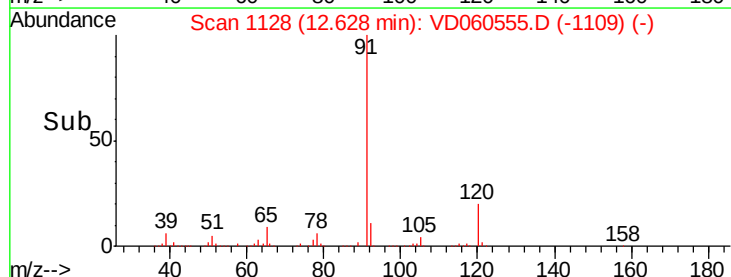
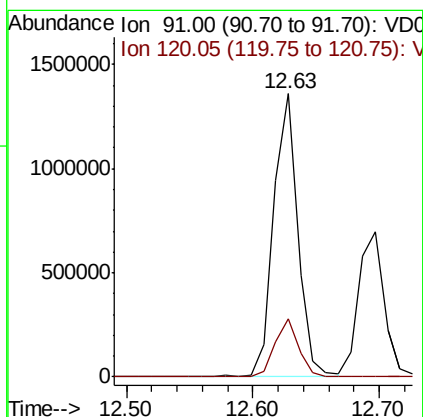
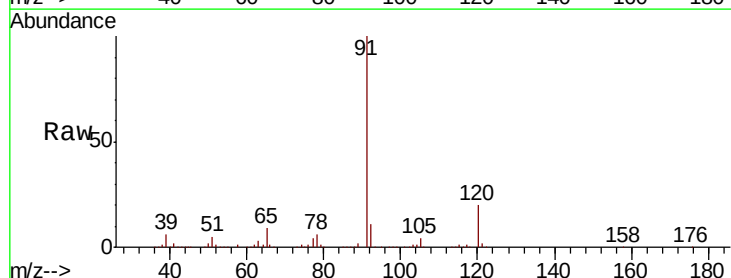
Manual Integrations
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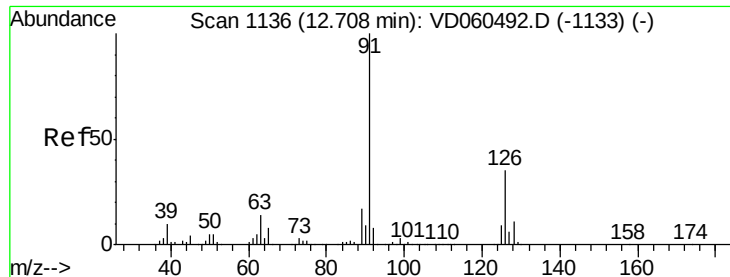
MMDadoda
12/14/2018 11:25:34 AM



#78
n-propylbenzene
Concen: 21.722 ug/l
RT: 12.63 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.4	10.4	31.1





#79

2-Chlorotoluene

Concen: 21.764 ug/l

RT: 12.70 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 91 Resp: 989046

Ion Ratio Lower Upper

91 100

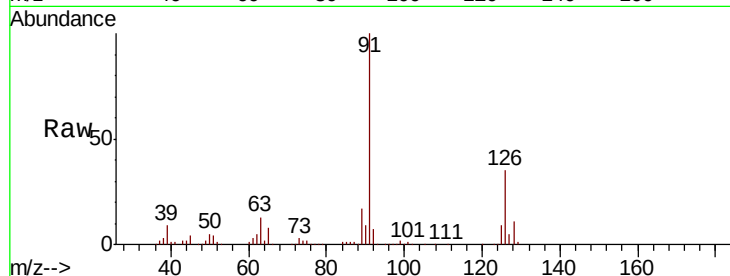
126 35.0 17.3 52.0

Manual Integrations

APPROVED

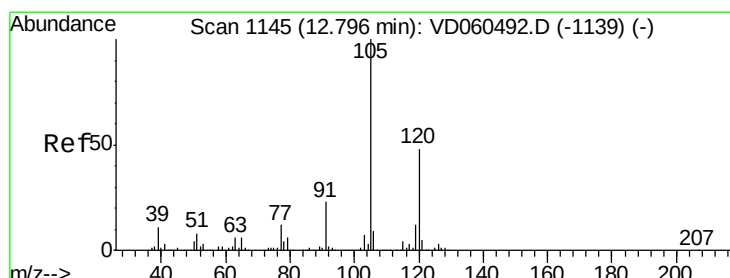
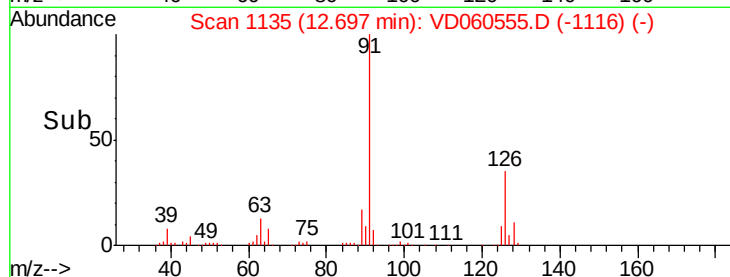
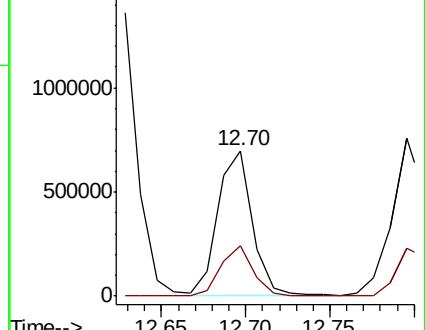
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 21.862 ug/l

RT: 12.79 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VD060555.D

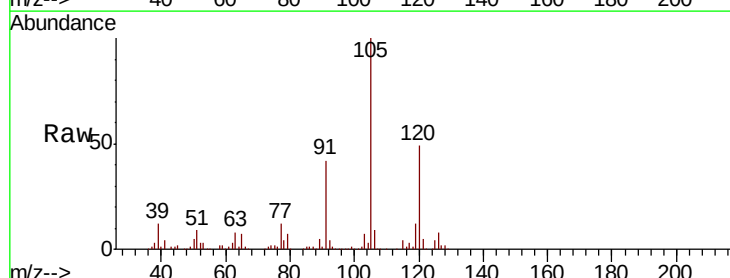
Acq: 13 Dec 2018 12:28

Tgt Ion:105 Resp: 1106744

Ion Ratio Lower Upper

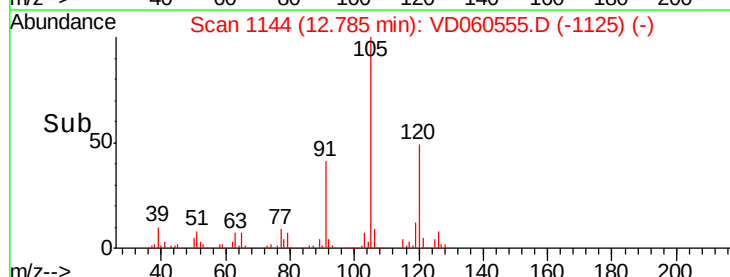
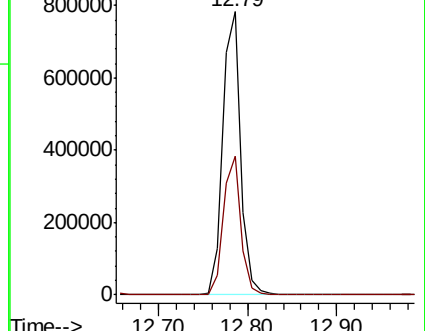
105 100

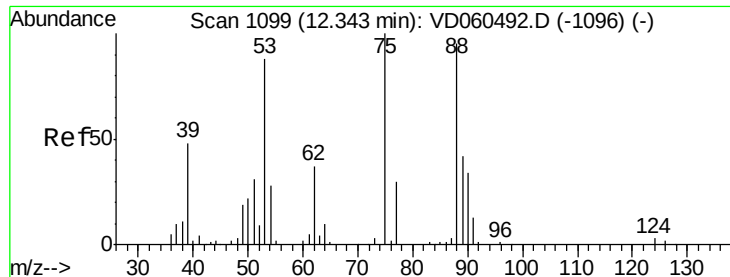
120 49.0 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





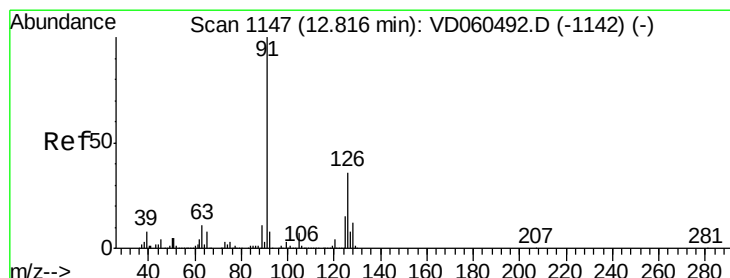
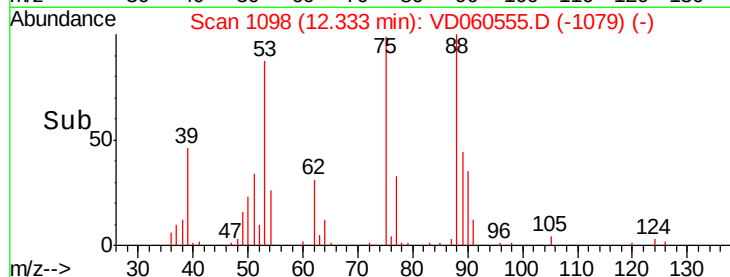
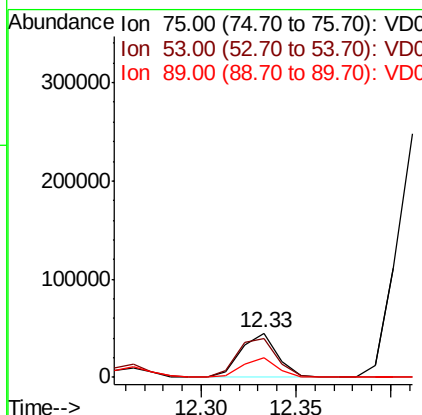
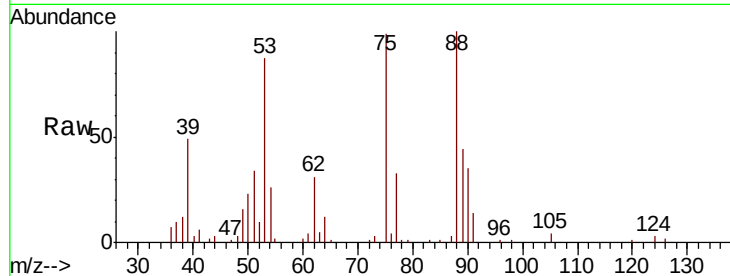
#81
trans-1,4-Dichloro-2-butene
Concen: 20.859 ug/l
RT: 12.33 min Scan# 1098
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBS01

Tot Ion: 75 Resp: 61714
Ion Ratio Lower Upper
75 100
53 88.1 70.5 105.7
89 44.4 33.6 50.4

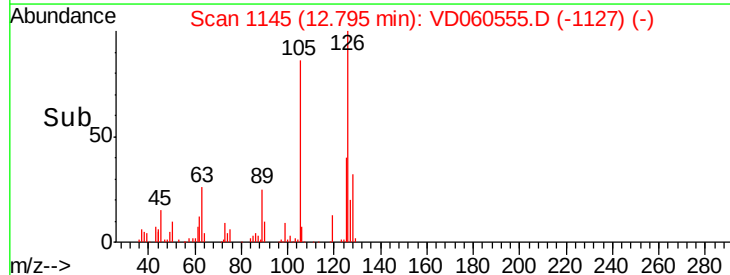
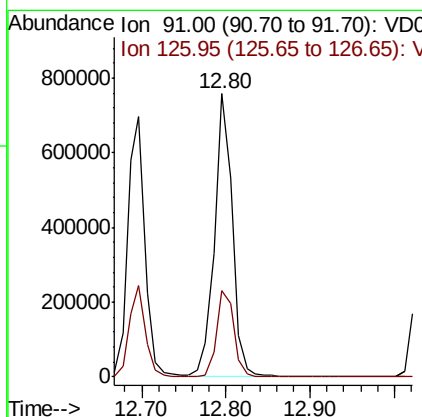
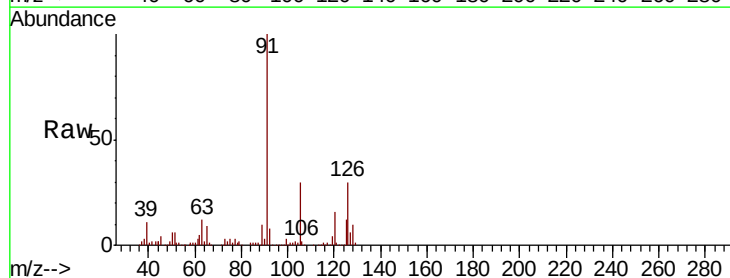
Manual Integrations
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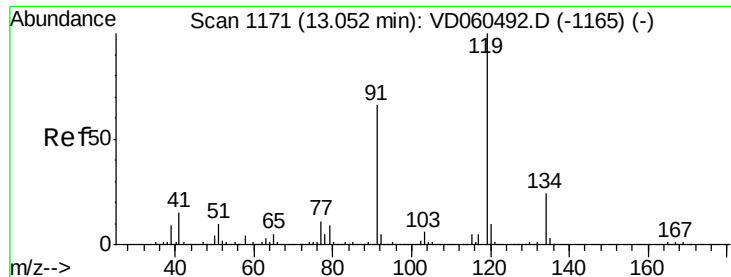
MMDadoda
12/14/2018 11:25:34 AM



#82
4-Chlorotoluene
Concen: 21.665 ug/l
RT: 12.80 min Scan# 1145
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion: 91 Resp: 1105795
Ion Ratio Lower Upper
91 100
126 30.4 17.8 53.4





#83

tert-Butylbenzene

Concen: 22.098 ug/l

RT: 13.03 min Scan# 1169

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBSD01

Tot Ion:119 Resp: 1254302

Ion Ratio Lower Upper

119 100

91 74.5 33.1 99.2

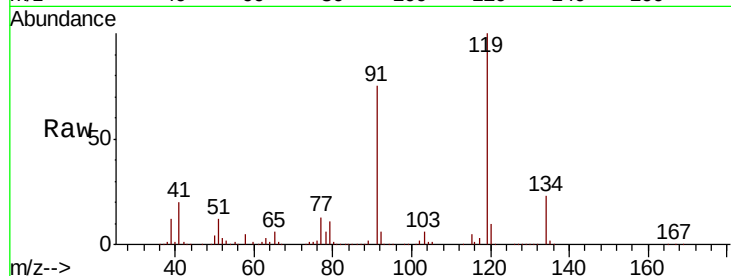
134 23.0 12.0 36.0

Manual Integrations

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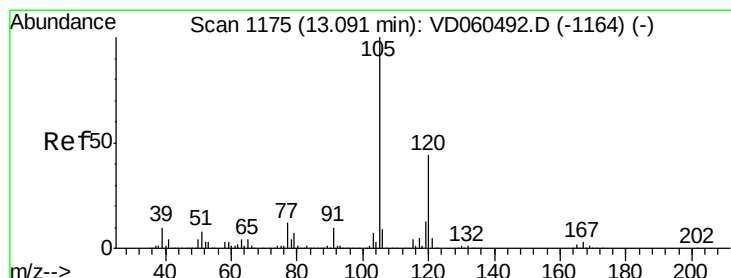
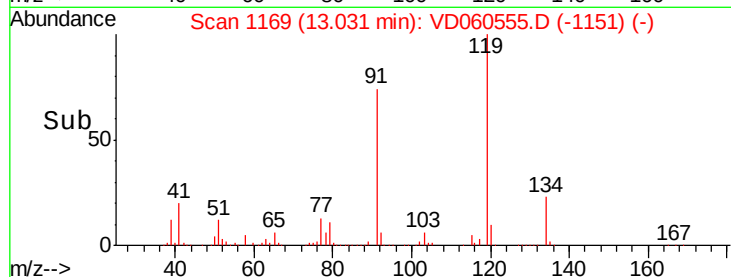
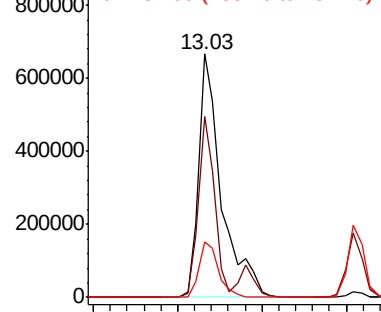
12/14/2018 11:25:34 AM



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.647 ug/l

RT: 13.08 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VD060555.D

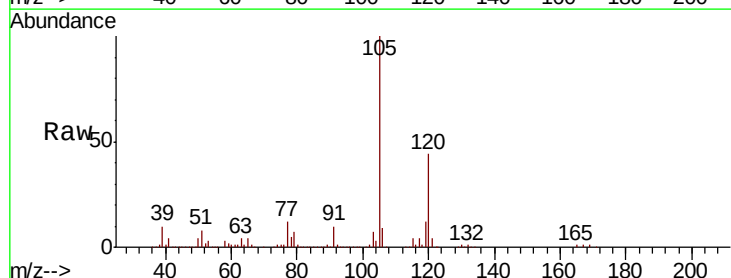
Acq: 13 Dec 2018 12:28

Tgt Ion:105 Resp: 1134679

Ion Ratio Lower Upper

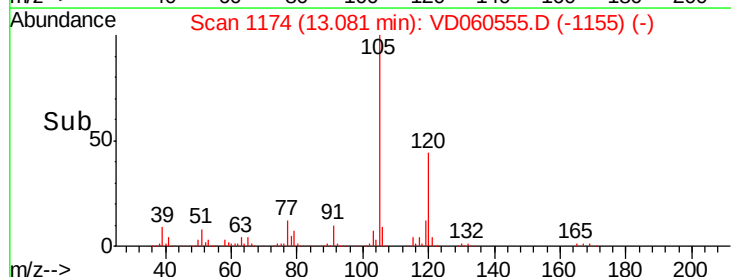
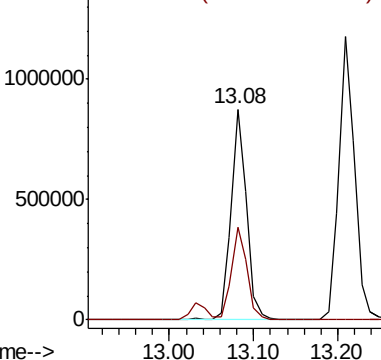
105 100

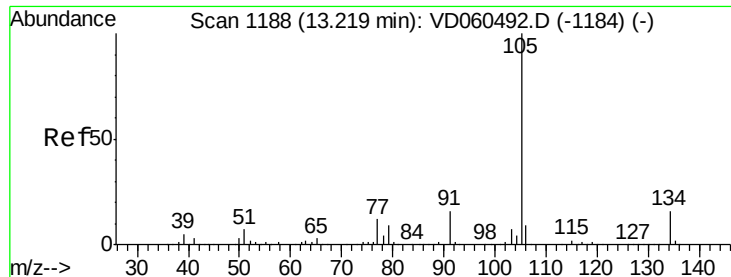
120 44.0 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 21.674 ug/l

RT: 13.21 min Scan# 1187

Delta R.T. -0.01 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion:105 Resp: 1533312

Ion Ratio Lower Upper

105 100

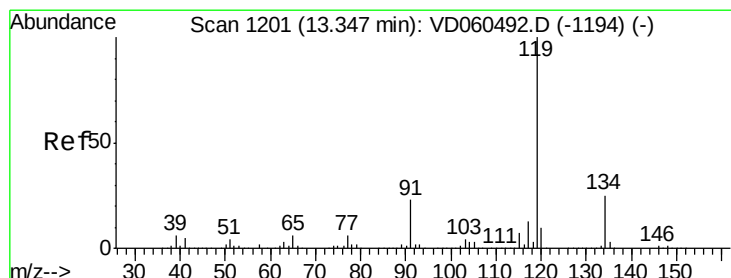
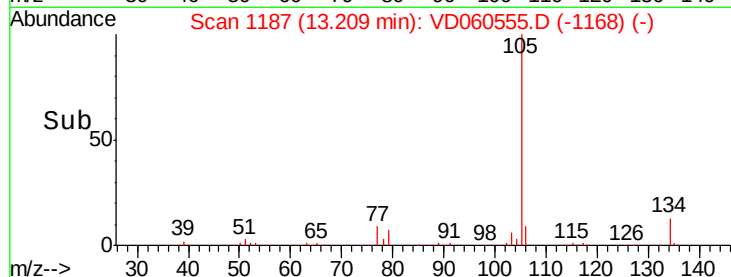
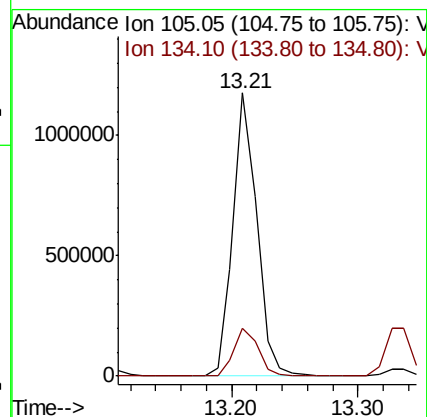
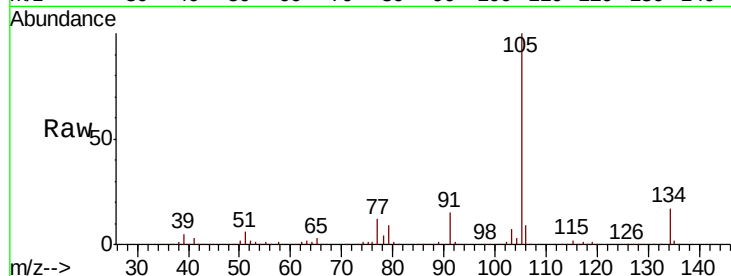
134 16.9 7.9 23.7

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.373 ug/l

RT: 13.33 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

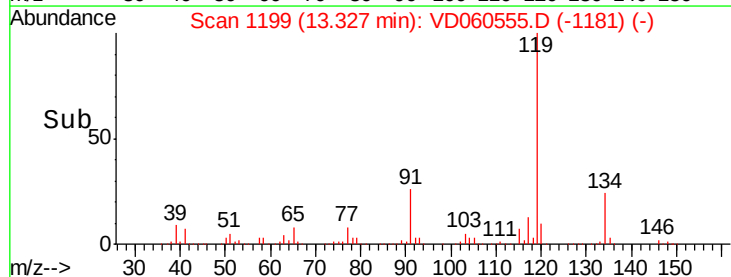
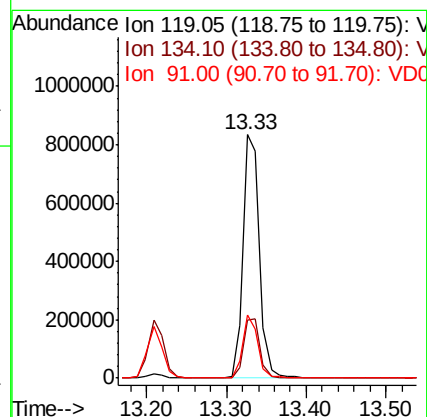
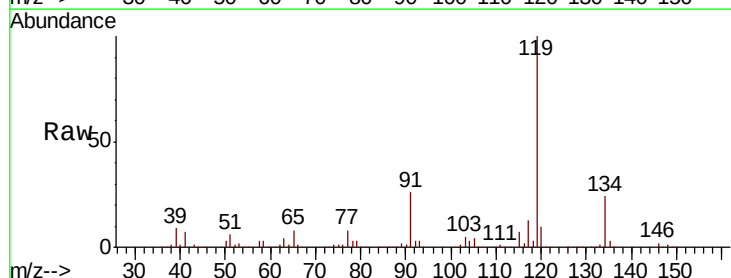
Tgt Ion:119 Resp: 1198591

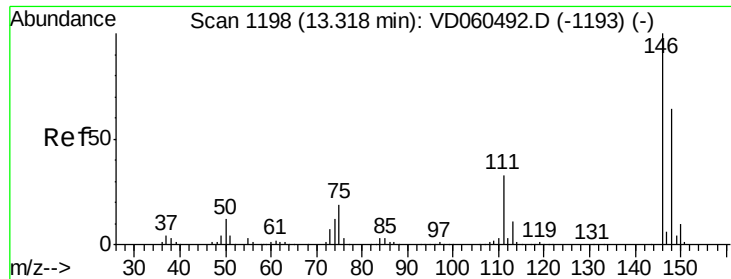
Ion Ratio Lower Upper

119 100

134 23.8 12.5 37.5

91 26.1 11.5 34.4





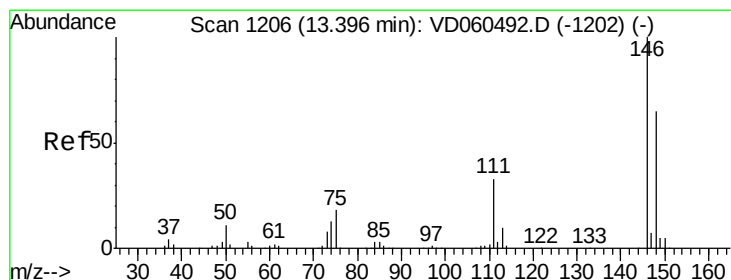
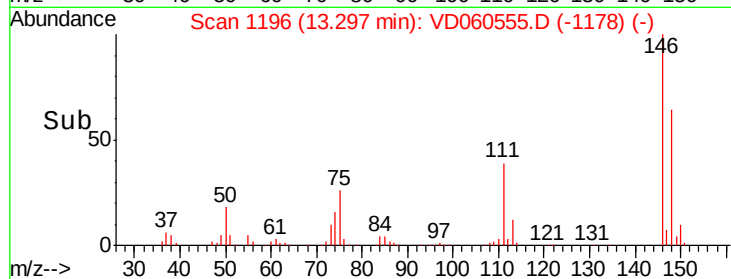
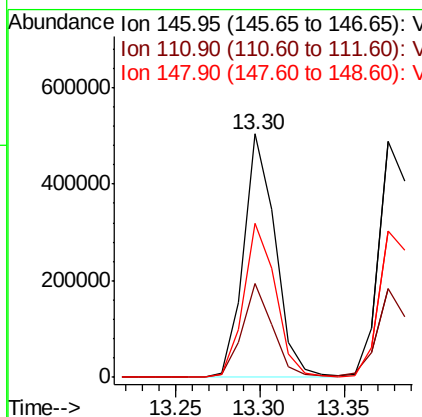
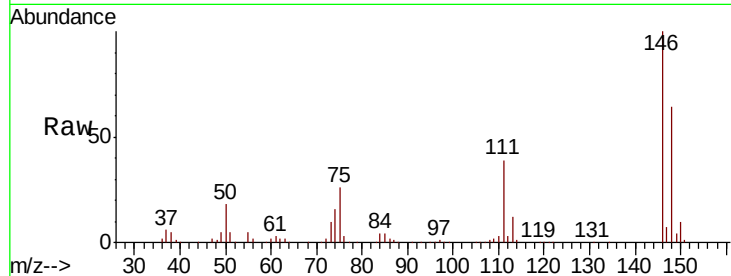
#87
 1,3-Dichlorobenzene
 Concen: 20.857 ug/l
 RT: 13.30 min Scan# 1196
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	16.5	49.5
148	63.5	32.3	96.8

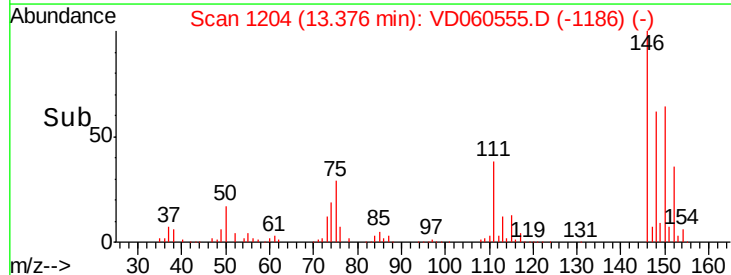
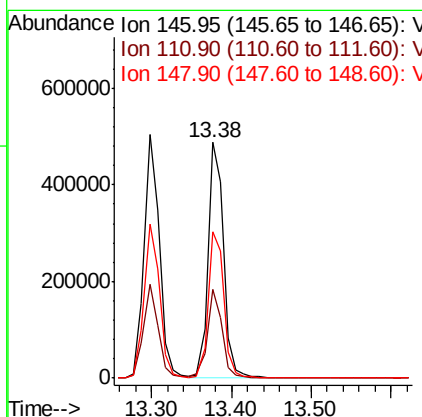
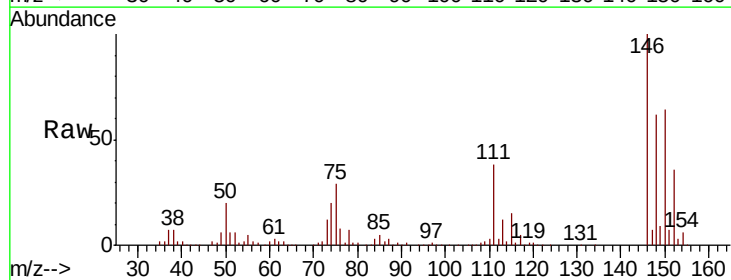
Manual Integrations
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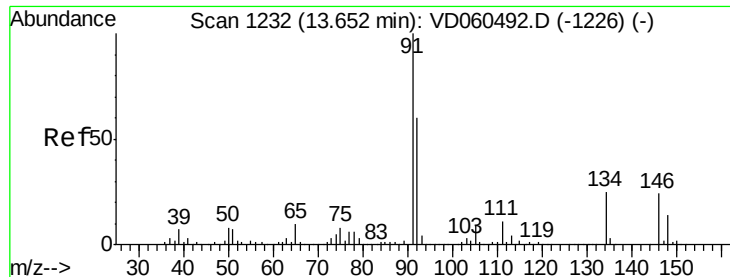
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#88
 1,4-Dichlorobenzene
 Concen: 21.404 ug/l
 RT: 13.38 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	16.4	49.1
148	62.3	32.6	98.0





#89

n-Butylbenzene

Concen: 20.774 ug/l

RT: 13.63 min Scan# 1230

Delta R.T. -0.02 min

Lab File: VD060555.D

Acq: 13 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1213SBS01

Tot Ion: 91 Resp: 1293556

Ion Ratio Lower Upper

91 100

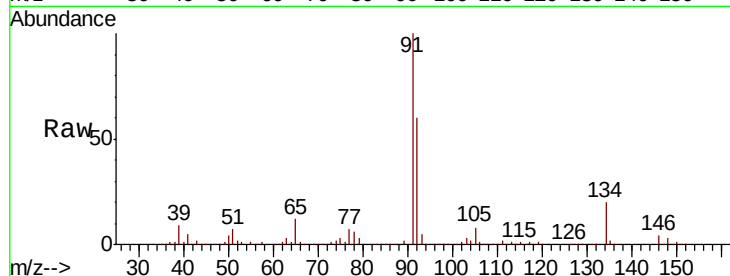
92 59.6 30.0 90.1

134 20.1 12.5 37.5

Manual Integrations
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MMDadoda

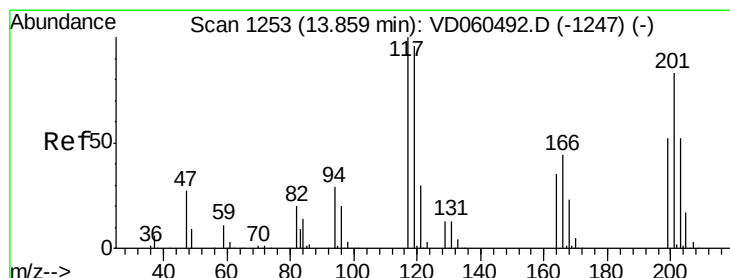
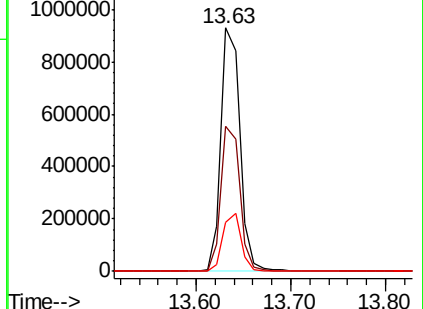
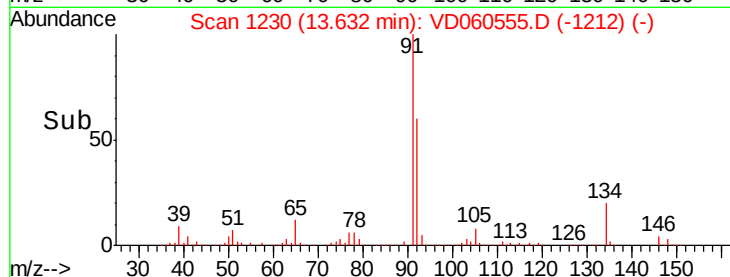
12/14/2018 11:25:34 AM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 20.723 ug/l

RT: 13.85 min Scan# 1252

Delta R.T. -0.01 min

Lab File: VD060555.D

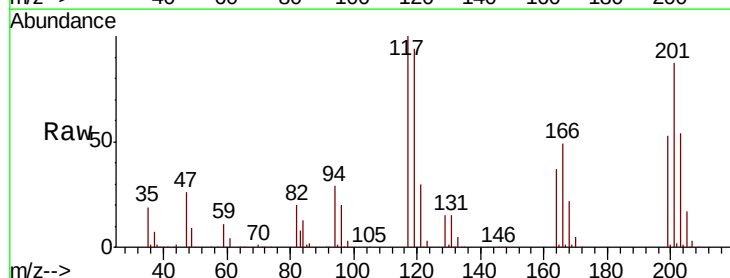
Acq: 13 Dec 2018 12:28

Tgt Ion: 117 Resp: 291378

Ion Ratio Lower Upper

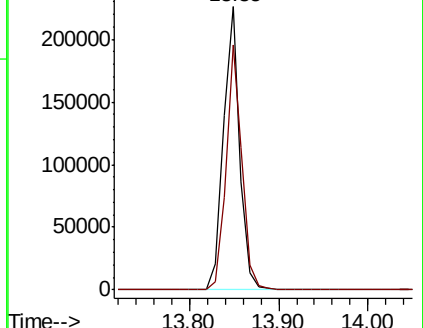
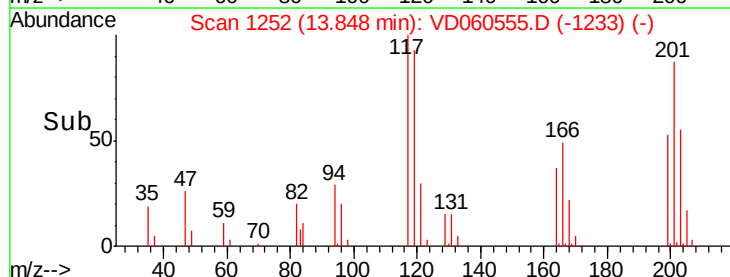
117 100

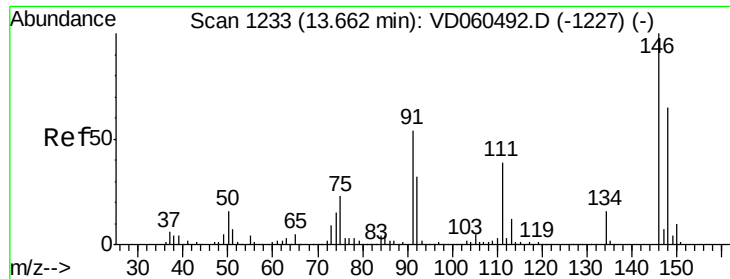
201 86.5 41.3 123.9



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





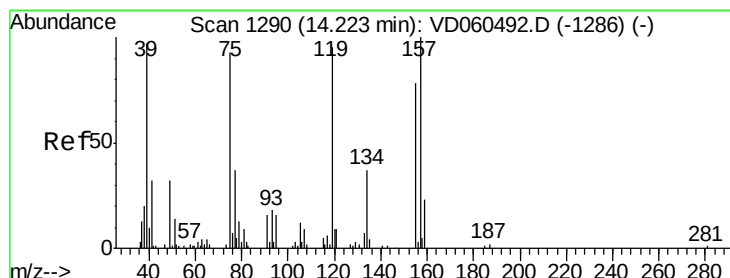
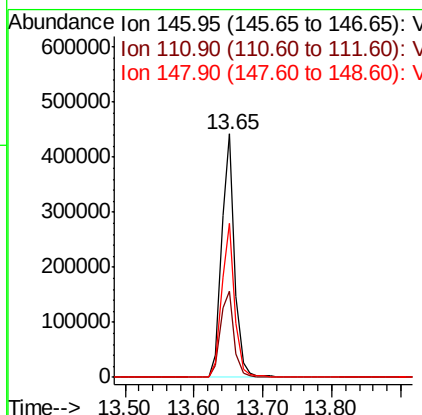
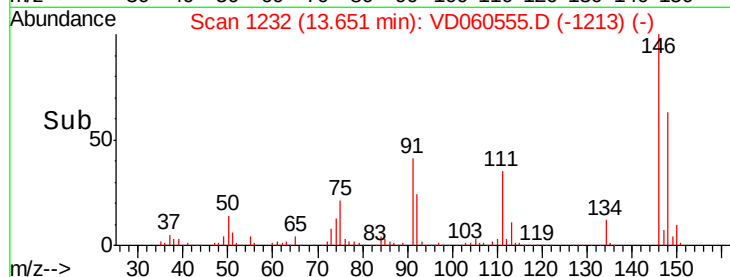
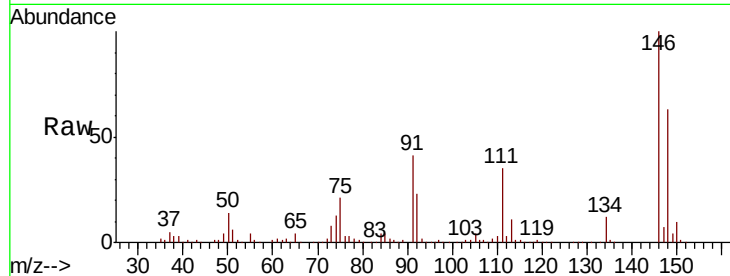
#91
 1,2-Dichlorobenzene
 Concen: 22.135 ug/l
 RT: 13.65 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.4	19.3	57.8
148	63.4	32.3	96.8

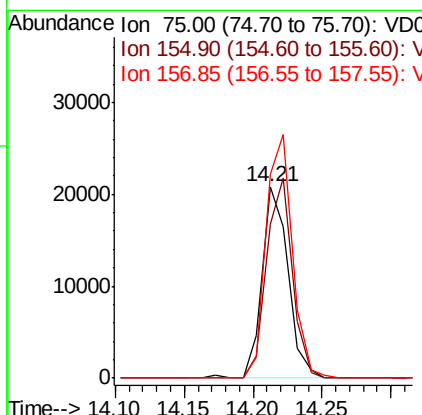
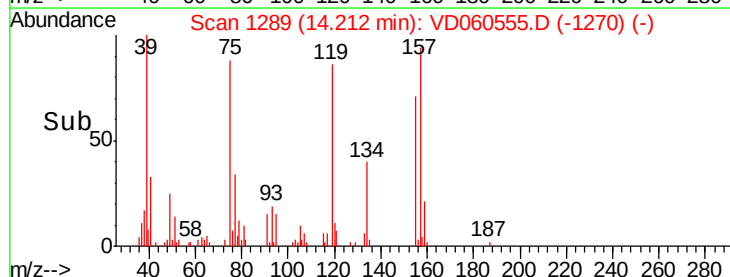
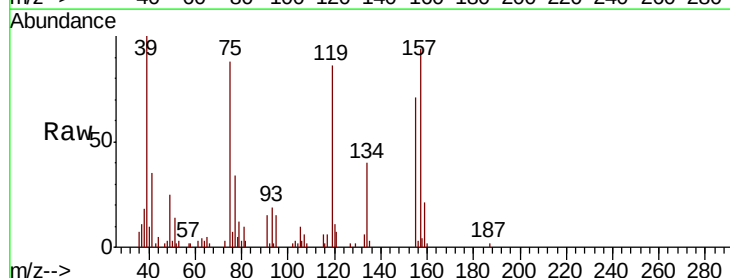
Manual Integrations
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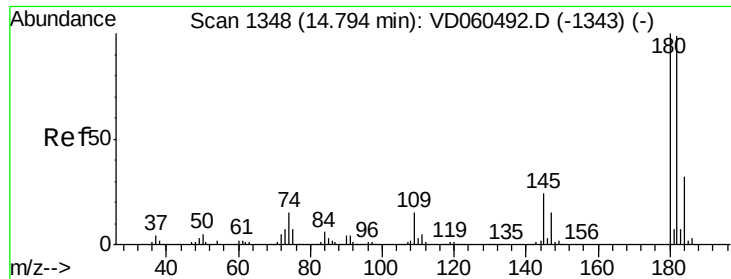
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 12/14/2018 11:25:34 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.275 ug/l
 RT: 14.21 min Scan# 1289
 Delta R.T. -0.01 min
 Lab File: VD060555.D
 Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.4	41.6	124.9
157	106.6	53.6	160.8





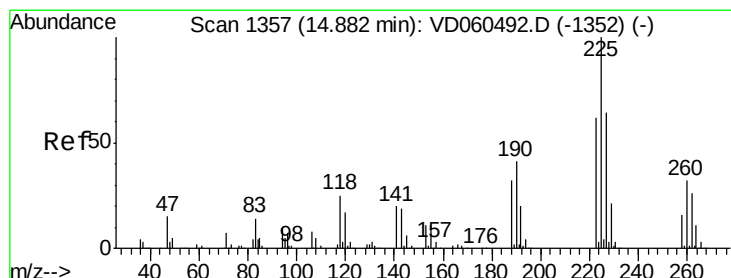
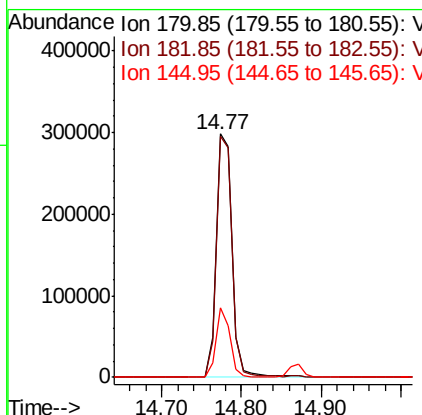
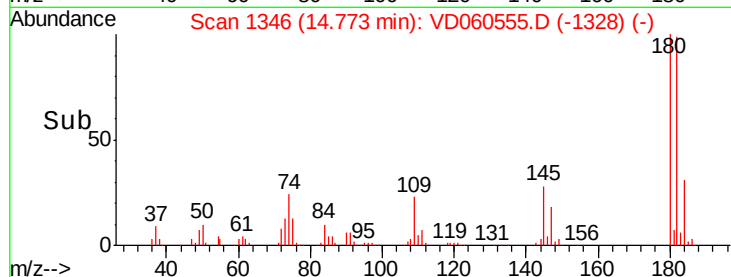
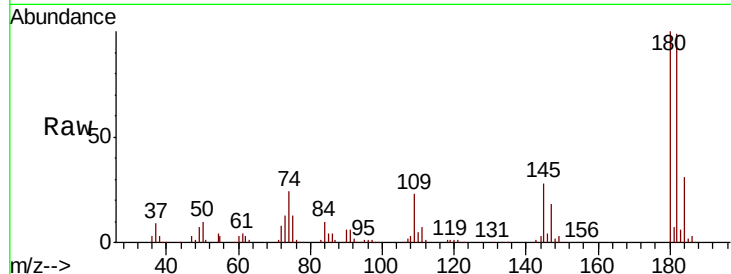
#93
1,2,4-Trichlorobenzene
Concen: 20.818 ug/l
RT: 14.77 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	419340		
182	98.9	49.4	148.0	
145	28.3	11.9	35.9	

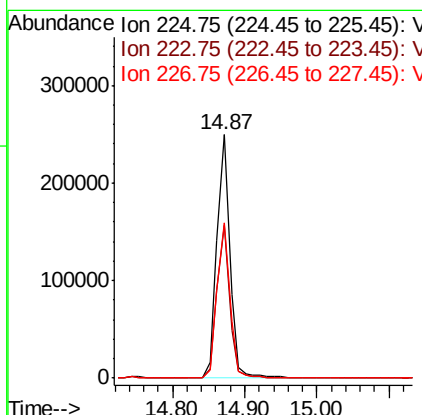
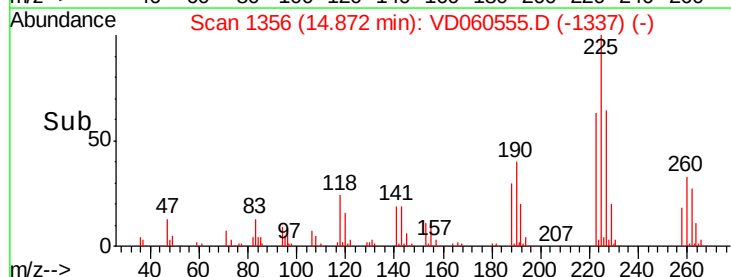
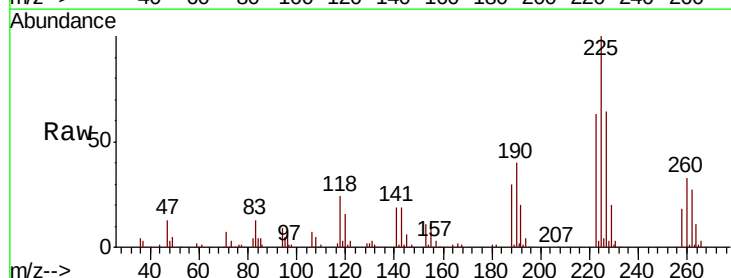
Manual Integrations
APPROVED

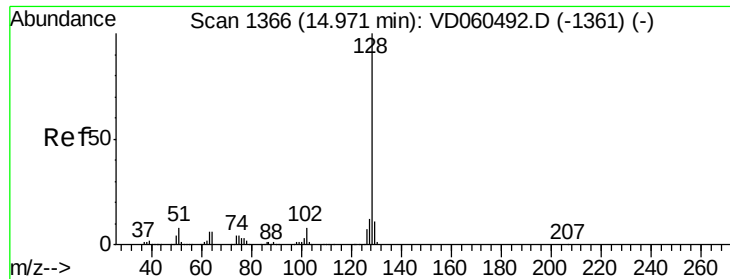
MMDadoda
12/14/2018 11:25:34 AM



#94
Hexachlorobutadiene
Concen: 20.758 ug/l
RT: 14.87 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	308498		
223	62.9	31.2	93.6	
227	64.0	32.0	96.0	





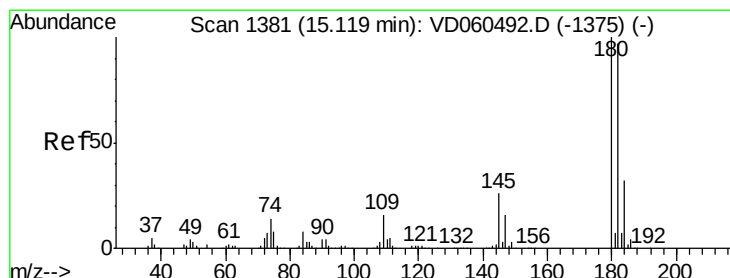
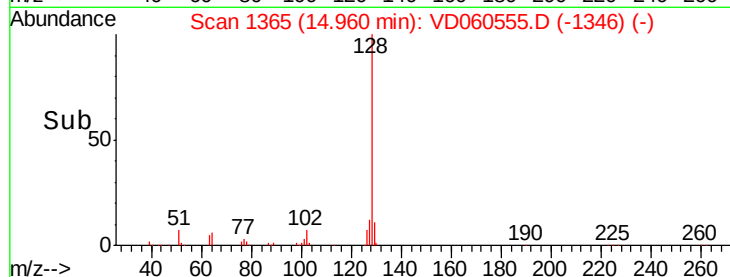
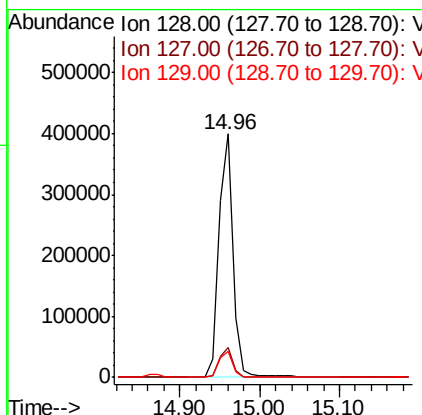
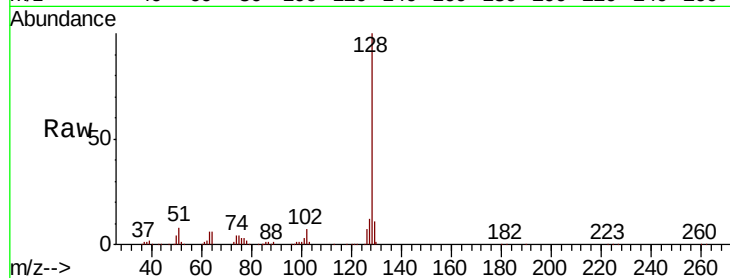
#95
Naphthalene
Concen: 21.044 ug/l
RT: 14.96 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1213SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.8
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:25:34 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.786 ug/l
RT: 15.11 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VD060555.D
Acq: 13 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.0	48.5	145.5
145	24.3	12.9	38.7

