

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032619\
 Data File : VD061338.D
 Acq On : 26 Mar 2019 16:13
 Operator : VA/AP
 Sample : K2047-04MS
 Misc : 6.50g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 12:02:26 PM

Quant Time: Mar 27 09:27:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	74786	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	154116	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	159808	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	74070	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	68022	105.42	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	210.84%	
35) Dibromofluoromethane	6.92	113	86343	73.22	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	146.44%	
50) Toluene-d8	10.40	98	167634	58.62	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	117.24%	
62) 4-Bromofluorobenzene	13.55	95	79956	71.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	143.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	23853	31.196	ug/l	92
3) Chloromethane	1.76	50	39242	65.790	ug/l	98
4) Vinyl Chloride	1.86	62	30204	54.157	ug/l	97
5) Bromomethane	2.16	94	11629	102.733	ug/l	89
6) Chloroethane	2.28	64	12360	70.446	ug/l	92
7) Trichlorofluoromethane	2.53	101	34546	41.906	ug/l	92
8) Diethyl Ether	2.87	74	31787	129.682	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.15	101	31424	37.451	ug/l	97
10) Methyl Iodide	3.31	142	49755	42.444	ug/l	98
11) Tert butyl alcohol	4.04	59	103501	3013.343	ug/l	96
12) 1,1-Dichloroethene	3.14	96	37426	51.836	ug/l	94
13) Acrolein	3.04	56	6674	177.516	ug/l	96
14) Allyl chloride	3.62	41	76970	75.150	ug/l	90
15) Acrylonitrile	4.19	53	186729	1545.844	ug/l	97
16) Acetone	3.21	43	250045	1620.137	ug/l	95
17) Carbon Disulfide	3.38	76	128288	53.500	ug/l	97
18) Methyl Acetate	3.64	43	131607	451.135	ug/l	96
19) Methyl tert-butyl Ether	4.23	73	178089	140.059	ug/l	98
20) Methylene Chloride	3.81	84	74252	84.767	ug/l	96
21) trans-1,2-Dichloroethene	4.22	96	54403	67.354	ug/l	95
22) Diisopropyl ether	5.10	45	197110	91.356	ug/l	96
23) Vinyl Acetate	5.05	43	480835	417.260	ug/l	98
24) 1,1-Dichloroethane	4.98	63	91257	72.580	ug/l	99
25) 2-Butanone	6.06	43	250749	1404.670	ug/l	96
26) 2,2-Dichloropropane	6.02	77	44856	42.015	ug/l	89
27) cis-1,2-Dichloroethene	6.03	96	68882	79.246	ug/l	96
28) Bromochloromethane	6.43	49	51125	97.146	ug/l	97
29) Tetrahydrofuran	6.44	42	133618	1503.796	ug/l	99
30) Chloroform	6.66	83	105212	78.525	ug/l	98
31) Cyclohexane	6.94	56	40478	39.665	ug/l	97
32) 1,1,1-Trichloroethane	6.87	97	64450	54.313	ug/l	97
36) 1,1-Dichloropropene	7.14	75	51471	40.820	ug/l	95
37) Ethyl Acetate	6.17	43	106233m	201.710	ug/l	
38) Carbon Tetrachloride	7.10	117	53836m	37.357	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	36690	28.096	ug/l	90
40) Benzene	7.45	78	182161	58.169	ug/l	99
41) Methacrylonitrile	6.43	41	132280	216.142	ug/l	99
42) 1,2-Dichloroethane	7.58	62	81628	83.638	ug/l	94
43) Isopropyl Acetate	9.23	43	113703	149.731	ug/l #	97
44) Trichloroethene	8.53	130	59572	52.600	ug/l	96
45) 1,2-Dichloropropane	8.92	63	49304	63.791	ug/l	93
46) Dibromomethane	9.05	93	57205	107.977	ug/l	94
47) Bromodichloromethane	9.37	83	80801	65.070	ug/l	99
48) Methyl methacrylate	9.11	41	69803	172.221	ug/l	93
49) 1,4-Dioxane	9.06	88	29576	6650.674	ug/l	95
51) 4-Methyl-2-Pentanone	10.29	43	485602	1074.206	ug/l	98
52) Toluene	10.50	92	134689	70.292	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	87418	81.006	ug/l	100
54) cis-1,3-Dichloropropene	10.03	75	89085	67.603	ug/l	98
55) 1,1,2-Trichloroethane	11.18	97	65959	103.685	ug/l	97
56) Ethyl methacrylate	11.03	69	86861	127.958	ug/l	97
57) 1,3-Dichloropropane	11.39	76	97826	101.823	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.85	63	249281	705.878	ug/l	96
59) 2-Hexanone	11.52	43	381529	1162.048	ug/l	99
60) Dibromochloromethane	11.68	129	86986	87.304	ug/l	99
61) 1,2-Dibromoethane	11.80	107	90044	121.144	ug/l	93
64) Tetrachloroethene	11.25	164	50458	45.834	ug/l	97
65) Chlorobenzene	12.39	112	202433	68.772	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	65811	57.667	ug/l	98
67) Ethyl Benzene	12.52	91	213307	47.352	ug/l	98
68) m/p-Xylenes	12.66	106	71107	40.437	ug/l	96
69) o-Xylene	13.04	106	83163	50.993	ug/l	98
70) Styrene	13.07	104	157827	57.022	ug/l	91
71) Bromoform	13.23	173	65326	93.543	ug/l #	95
73) Isopropylbenzene	13.39	105	191083	39.663	ug/l	96
74) N-amyl acetate	13.26	43	84645	67.155	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.69	83	105846	113.295	ug/l	98
76) 1,2,3-Trichloropropane	13.73	75	114498	124.299	ug/l	99
77) Bromobenzene	13.66	156	70456	52.356	ug/l	94
78) n-propylbenzene	13.77	91	218440	40.189	ug/l	98
79) 2-Chlorotoluene	13.84	91	143084	45.213	ug/l	94
80) 1,3,5-Trimethylbenzene	14.23	105	35518	9.345	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.46	75	27792	95.602	ug/l	93
82) 4-Chlorotoluene	13.94	91	139756	40.395	ug/l	91
83) tert-Butylbenzene	14.18	119	167070	38.501	ug/l	97
84) 1,2,4-Trimethylbenzene	14.23	105	35518	9.345	ug/l	95
85) sec-Butylbenzene	14.36	105	166554	34.464	ug/l	95
86) p-Isopropyltoluene	14.49	119	157688	36.574	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	106961	44.841	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	120123	51.988	ug/l	98
89) n-Butylbenzene	14.79	91	139971	36.566	ug/l	97
90) Hexachloroethane	15.00	117	42061	36.386	ug/l	81
91) 1,2-Dichlorobenzene	14.80	146	127966	67.233	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	18220	156.070	ug/l	68

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QLast Update : Tue Mar 26 03:31:57 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	46912	53.368	ug/l	97
94) Hexachlorobutadiene	16.03	225	20494	28.935	ug/l	96
95) Naphthalene	16.12	128	156963	122.378	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	28483	69.376	ug/l	94

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

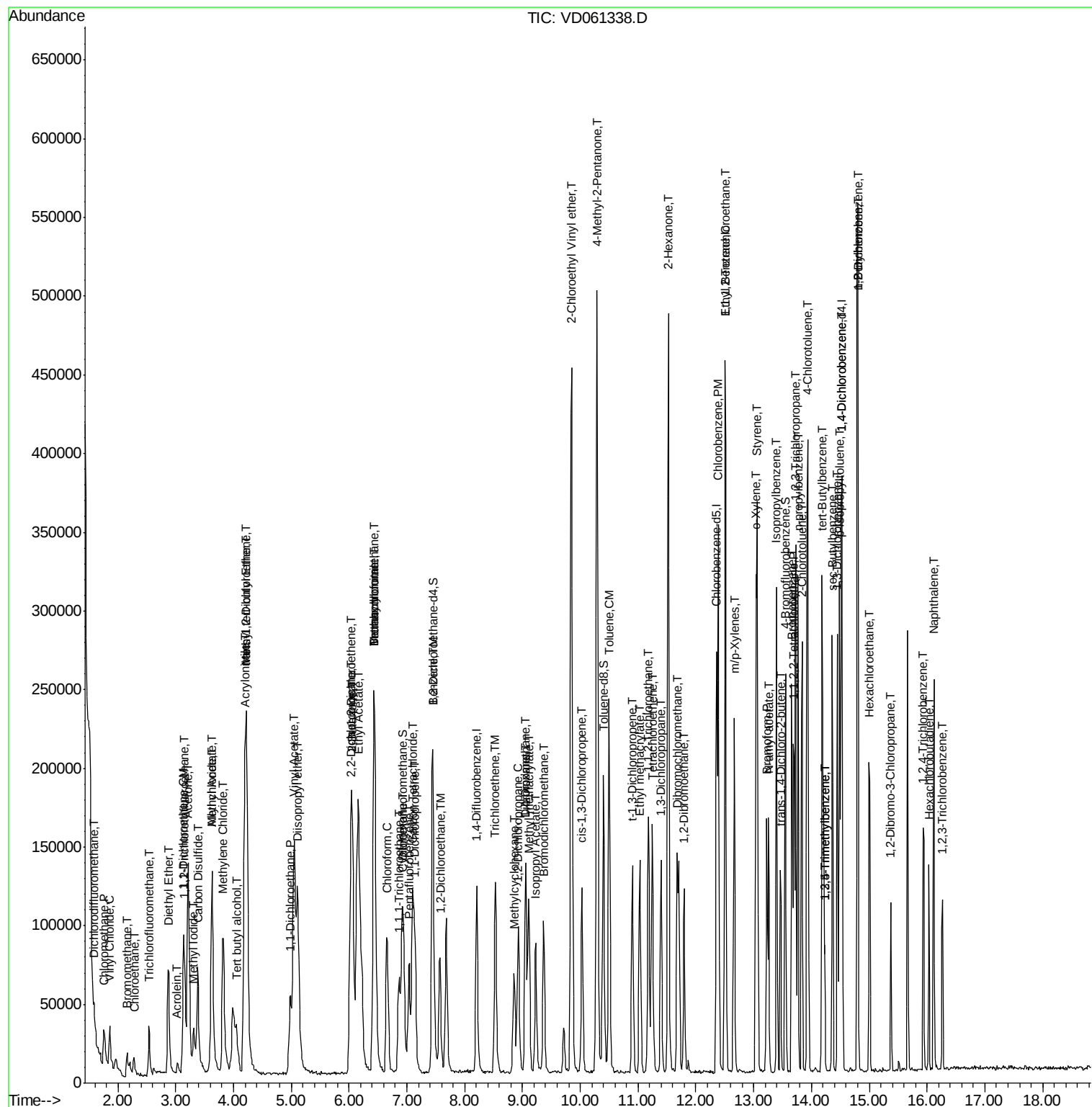
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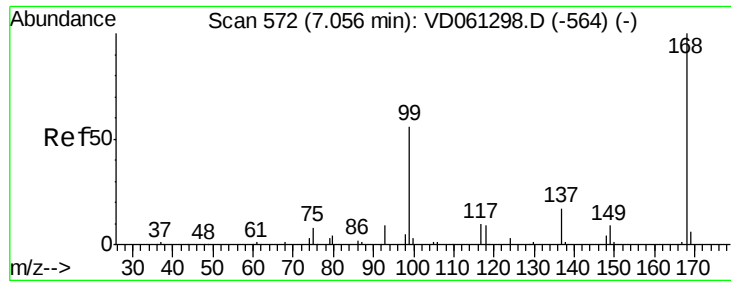
Instrument :
 MSVOA_D
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:168 Resp: 74786

Ion Ratio Lower Upper

168 100

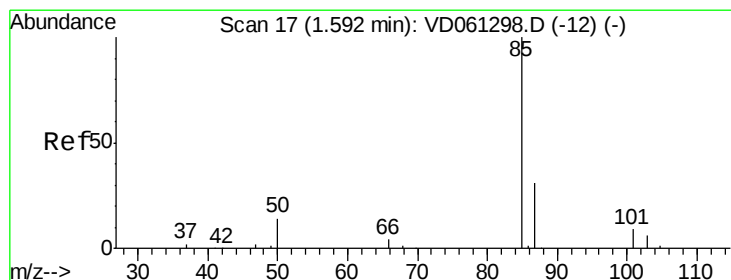
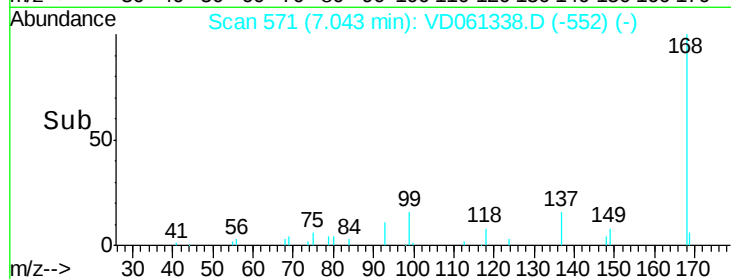
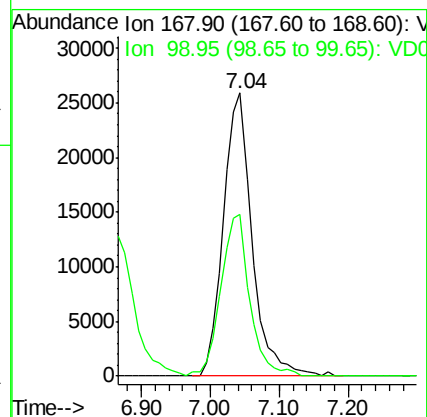
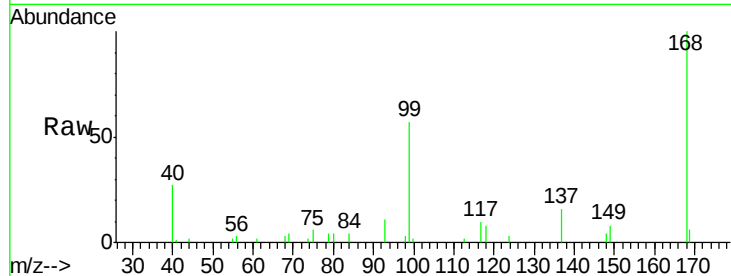
99 57.3 45.8 68.8

Manual Integrations

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3/27/2019 12:02:26 PM



#2

Dichlorodifluoromethane

Concen: 31.196 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.00 min

Lab File: VD061338.D

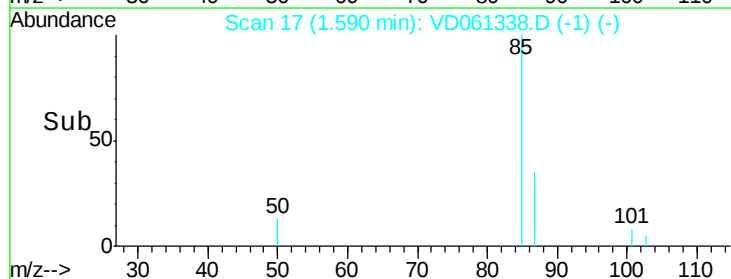
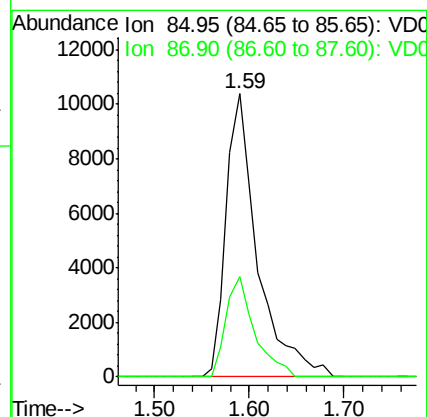
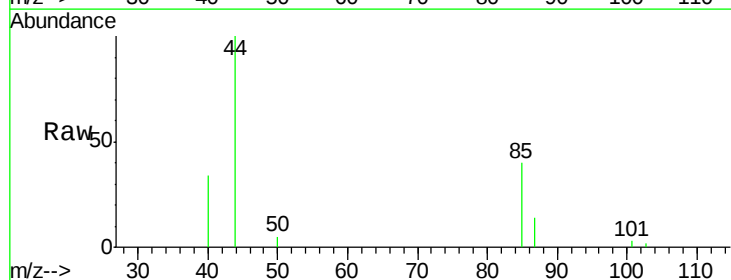
Acq: 26 Mar 2019 16:13

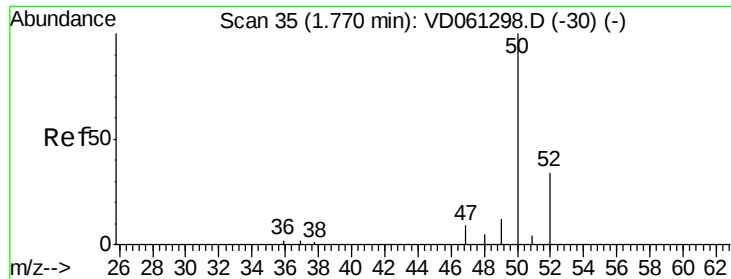
Tgt Ion: 85 Resp: 23853

Ion Ratio Lower Upper

85 100

87 35.4 15.4 46.4





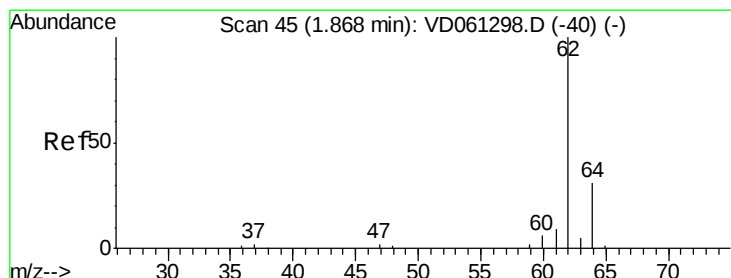
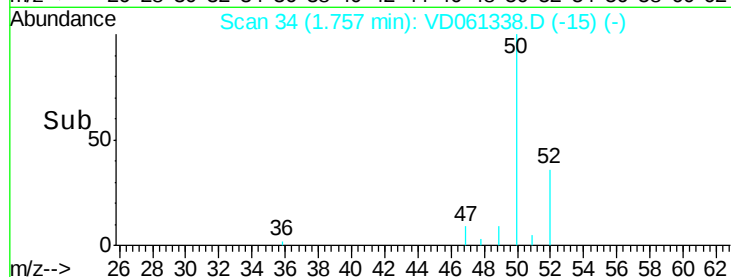
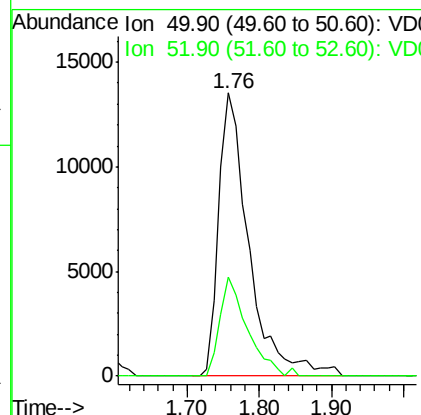
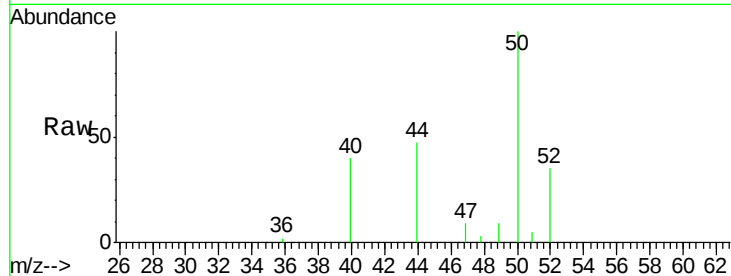
#3
 Chloromethane
 Concen: 65.790 ug/l
 RT: 1.76 min Scan# 34
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

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 WP022SB431-190320-(21-23)MS

Tot Ion: 50 Resp: 39242
 Ion Ratio Lower Upper
 50 100
 52 34.9 27.1 40.7

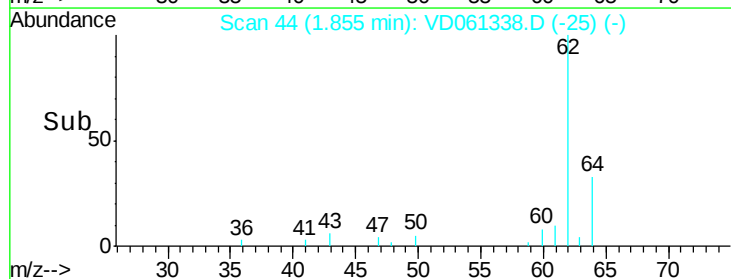
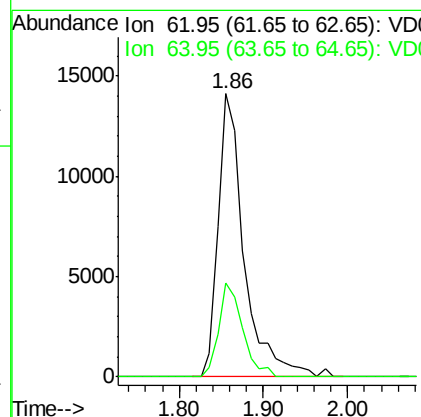
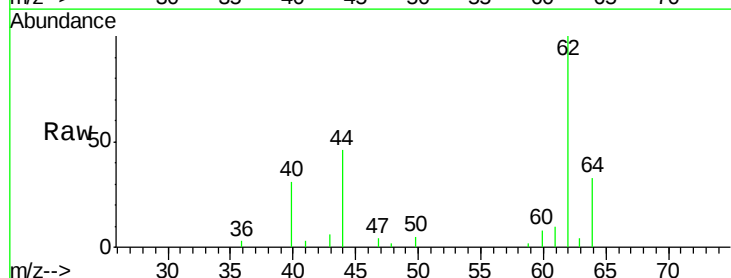
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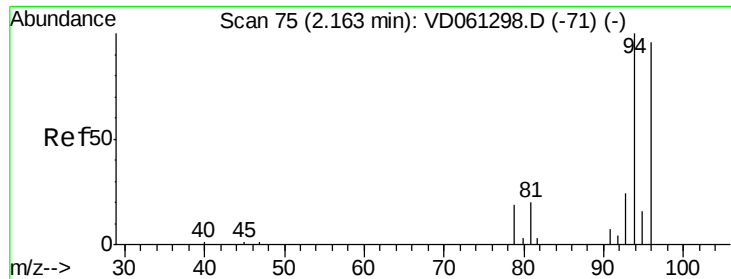
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#4
 Vinyl Chloride
 Concen: 54.157 ug/l
 RT: 1.86 min Scan# 44
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion: 62 Resp: 30204
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.1 37.7





#5

Bromomethane

Concen: 102.733 ug/l

RT: 2.16 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 94 Resp: 11629

Ion Ratio Lower Upper

94 100

96 107.2 76.9 115.3

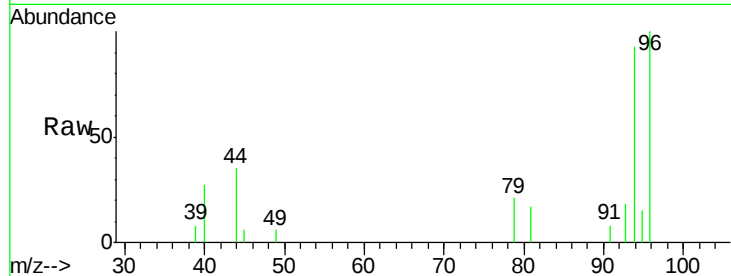
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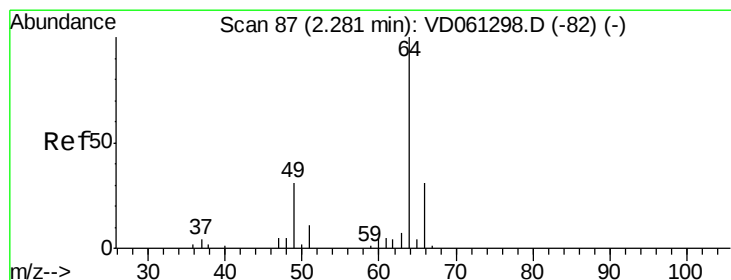
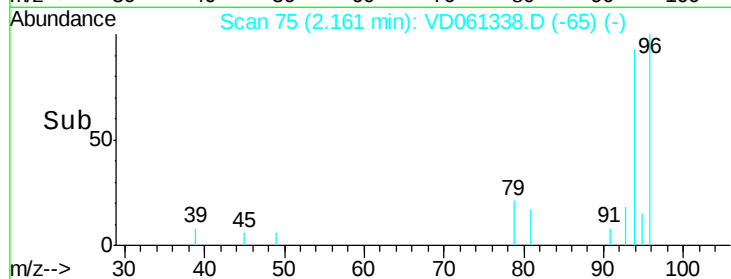
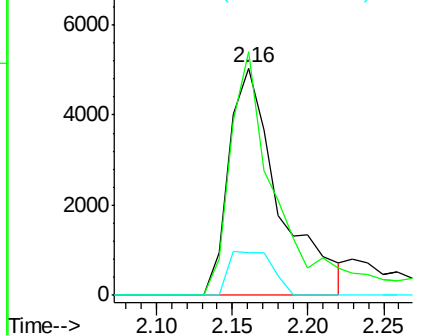
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Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 70.446 ug/l

RT: 2.28 min Scan# 87

Delta R.T. -0.00 min

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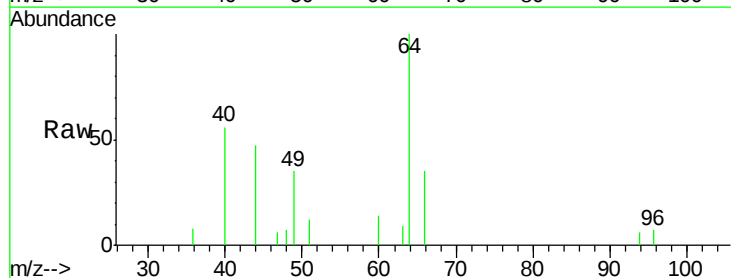
Acq: 26 Mar 2019 16:13

Tgt Ion: 64 Resp: 12360

Ion Ratio Lower Upper

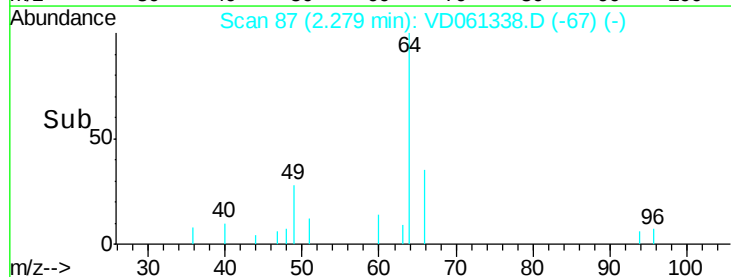
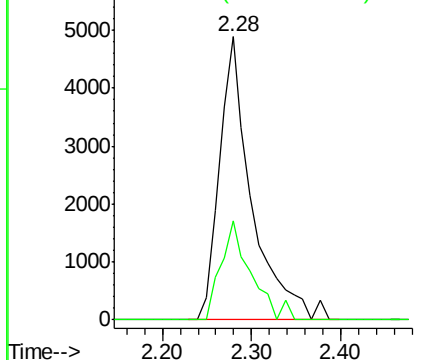
64 100

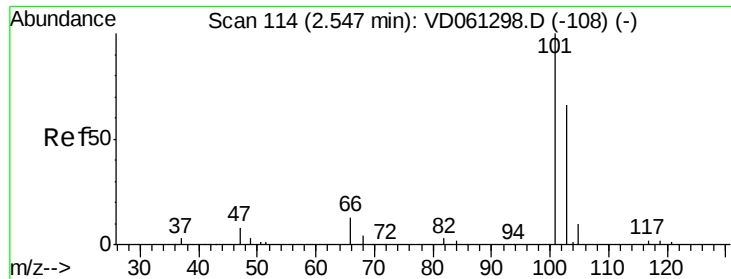
66 34.8 24.6 36.8



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

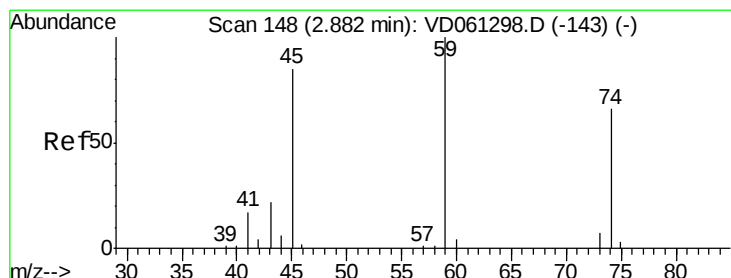
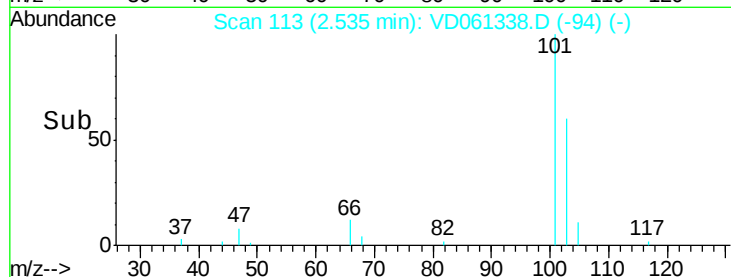
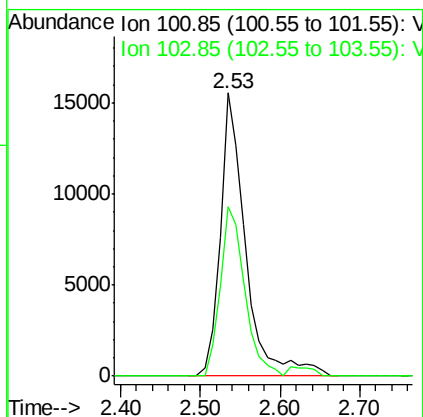
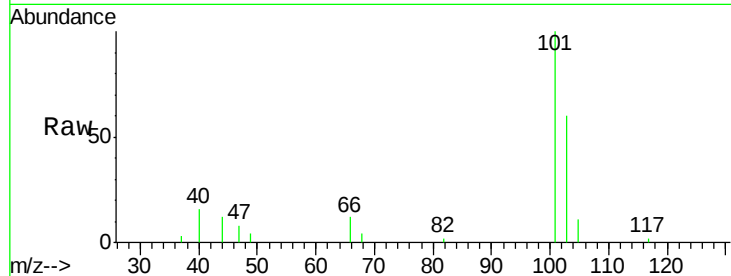
Trichlorofluoromethane
Concen: 41.906 ug/l
RT: 2.53 min Scan# 113
Delta R.T. -0.01 min
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Tot Ion:101 Resp: 34546
Ion Ratio Lower Upper
101 100
103 59.8 52.6 79.0

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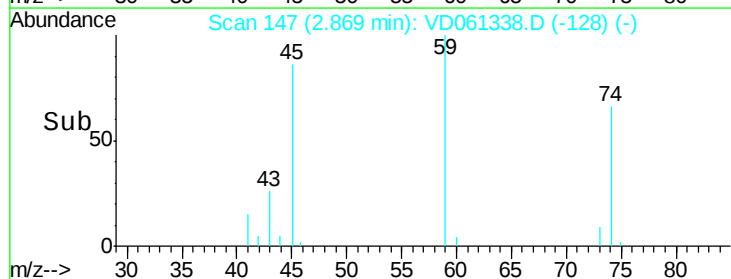
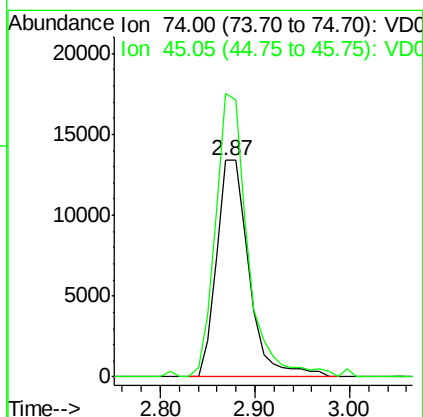
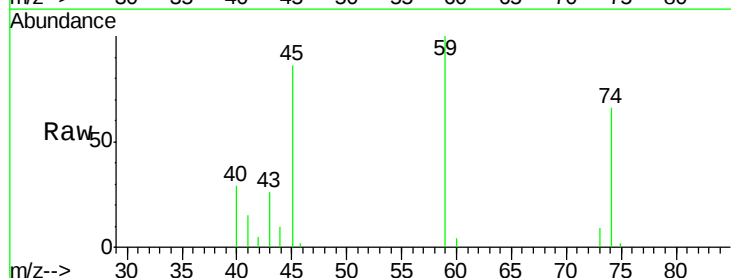
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3/27/2019 12:02:26 PM

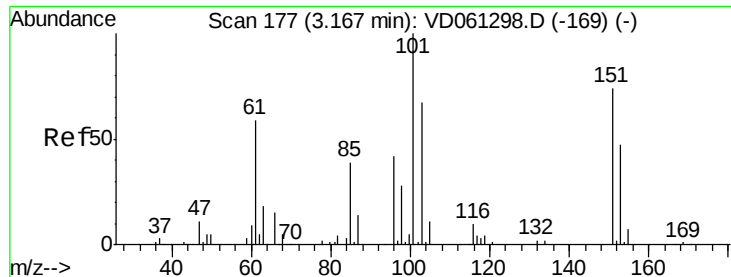


#8

Diethyl Ether
Concen: 129.682 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion: 74 Resp: 31787
Ion Ratio Lower Upper
74 100
45 130.7 64.3 192.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 37.451 ug/l

RT: 3.15 min Scan# 176

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

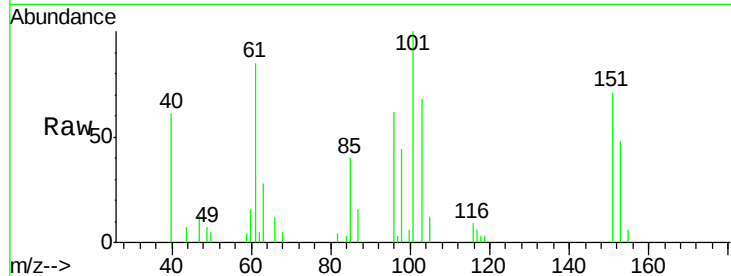
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:	101	Resp:	31424
Ion Ratio	Lower	Upper	
101	100		
85	40.2	31.6	47.4
151	71.4	59.3	88.9

Manual Integrations
APPROVED

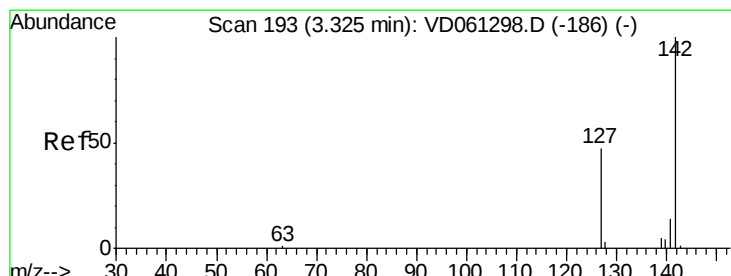
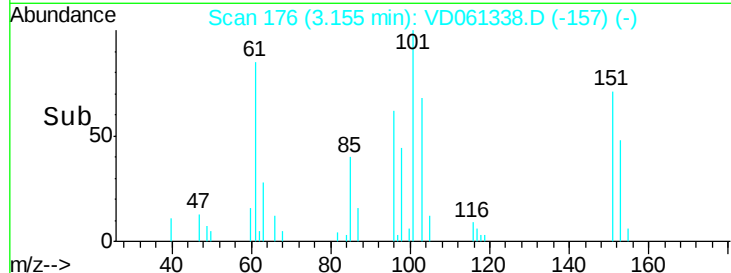
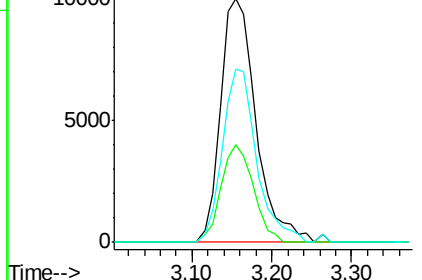
MMDadoda
3/27/2019 12:02:26 PM



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 42.444 ug/l

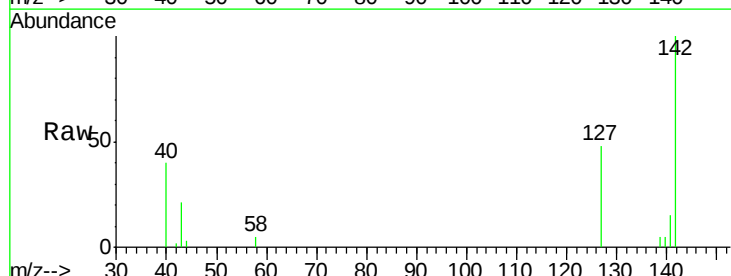
RT: 3.31 min Scan# 192

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

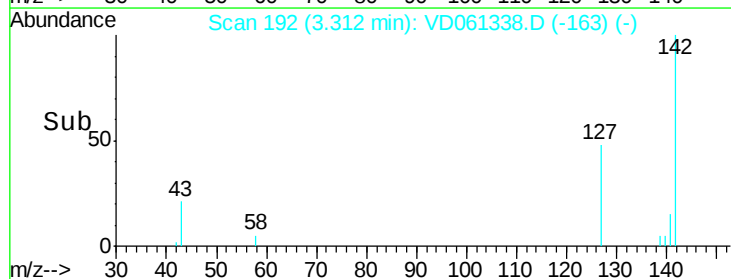
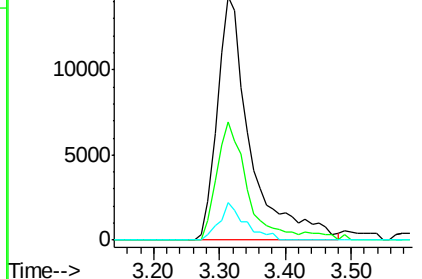
Tgt Ion:	142	Resp:	49755
Ion Ratio	Lower	Upper	
142	100		
127	48.3	37.8	56.6
141	15.5	11.6	17.4

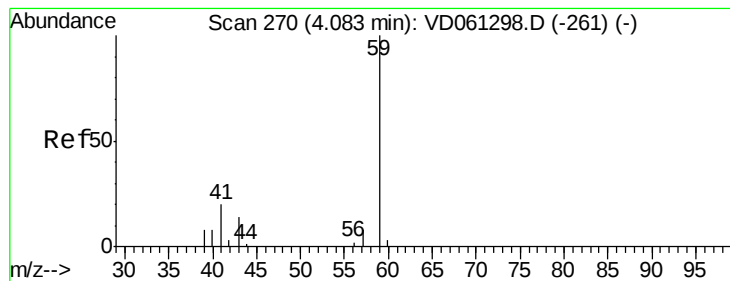


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

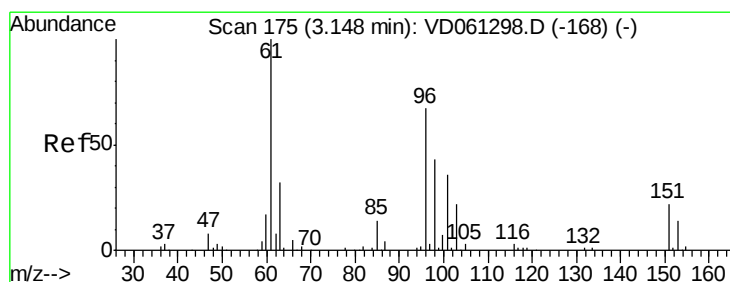
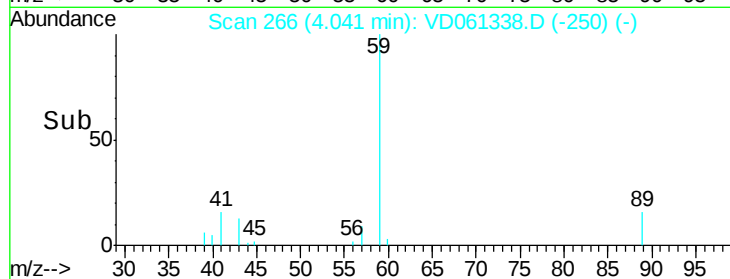
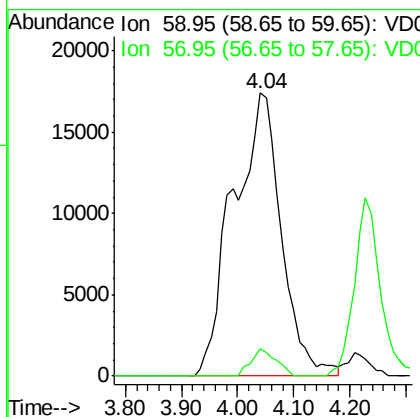
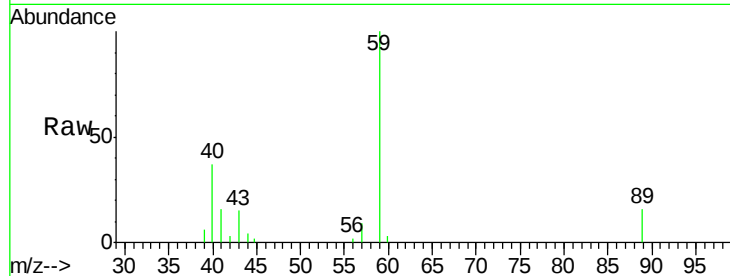
Tert butyl alcohol
Concen: 3013.343 ug/l
RT: 4.04 min Scan# 266
Delta R.T. -0.04 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
59	100	103501		
57	9.5	6.6	9.8	

Manual Integrations
APPROVED

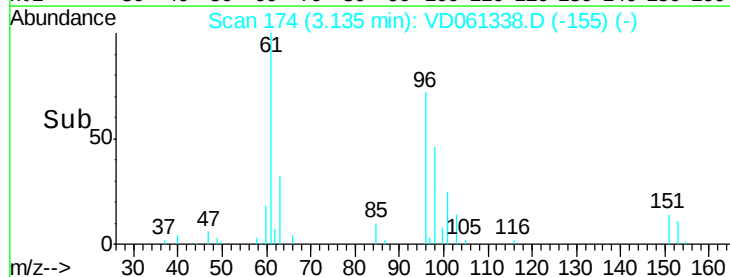
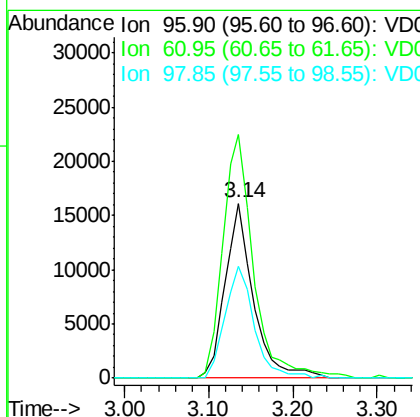
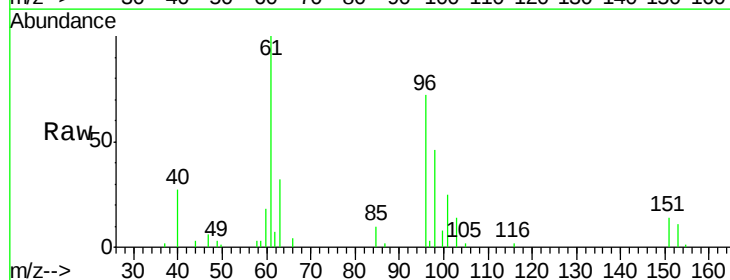
MMDadoda
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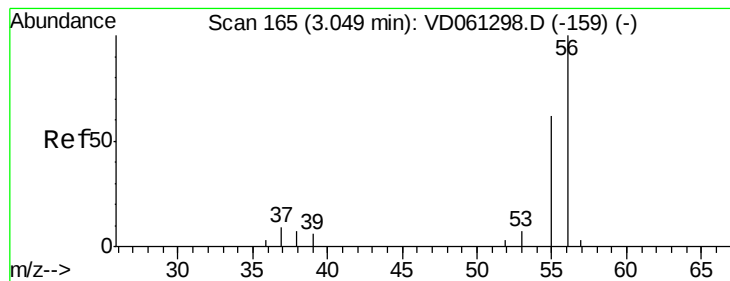


#12

1,1-Dichloroethene
Concen: 51.836 ug/l
RT: 3.14 min Scan# 174
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	37426		
61	139.5	120.2	180.2	
98	63.7	52.2	78.4	





#13

Acrolein

Concen: 177.516 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 56 Resp: 6674

Ion Ratio Lower Upper

56 100

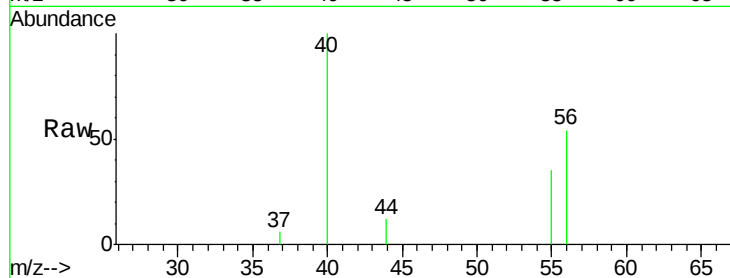
55 64.9 49.8 74.6

Manual Integrations

APPROVED

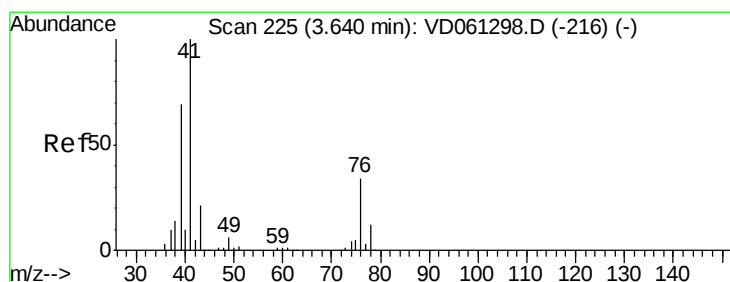
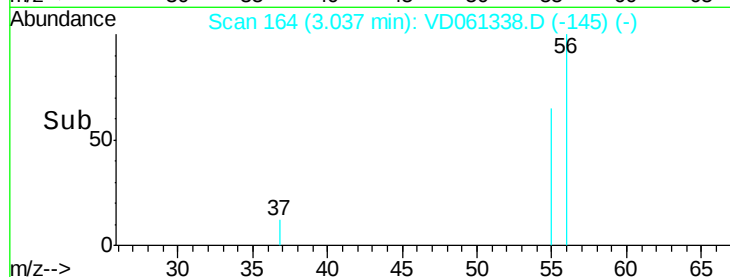
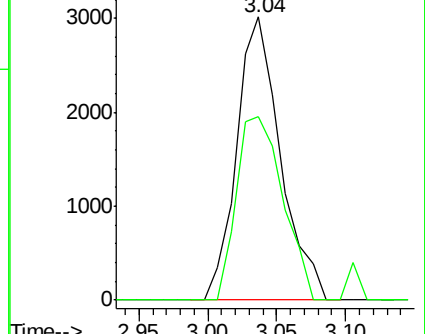
MMDadoda

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 75.150 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

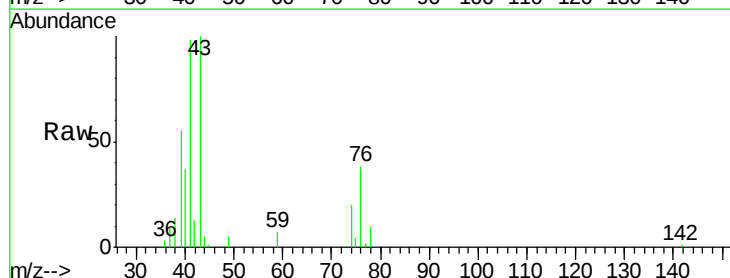
Tgt Ion: 41 Resp: 76970

Ion Ratio Lower Upper

41 100

39 56.5 55.1 82.7

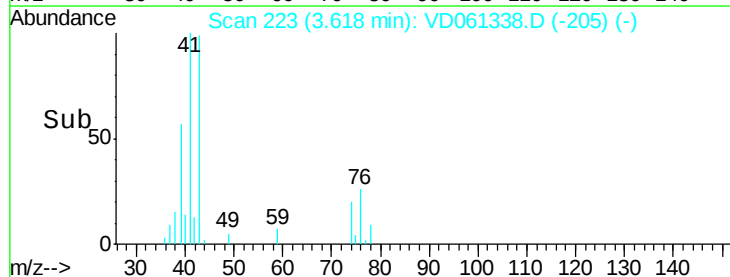
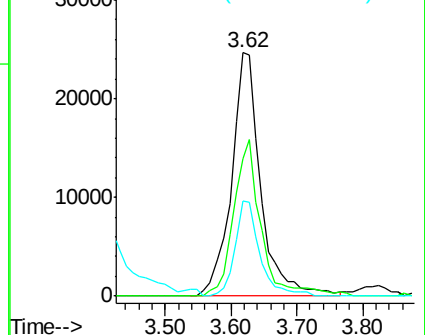
76 38.8 30.2 45.2

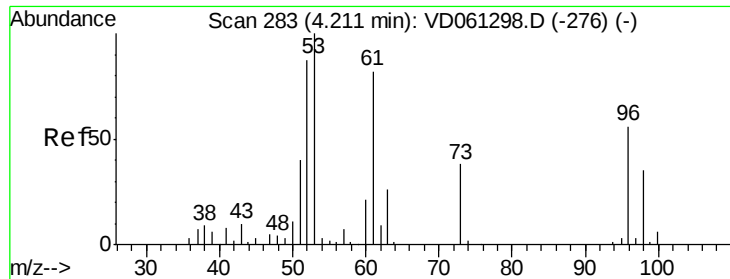


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





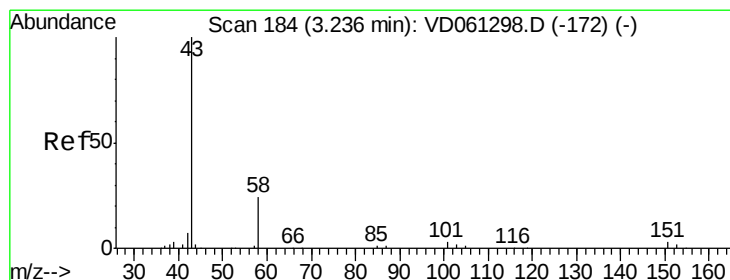
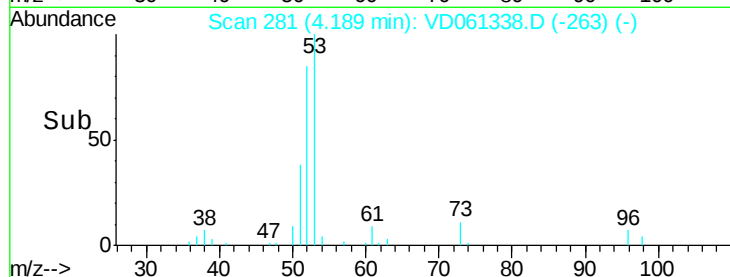
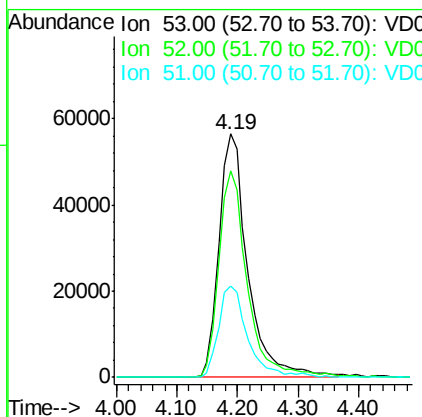
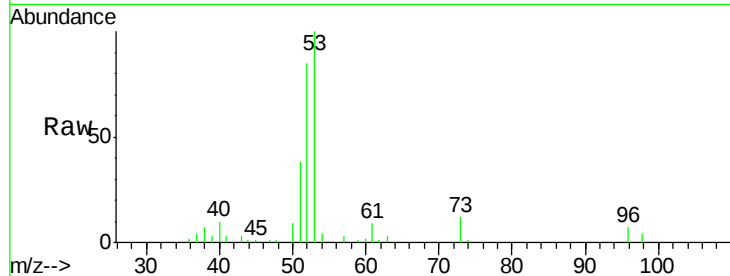
#15
 Acrylonitrile
 Concen: 1545.844 ug/l
 RT: 4.19 min Scan# 281
 Delta R.T. -0.02 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
53	100	186729		
52	84.6		69.4	104.2
51	37.7		31.7	47.5

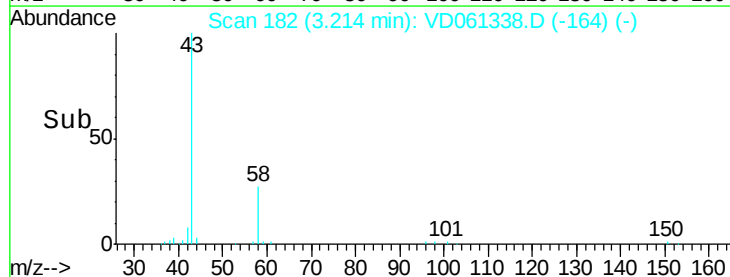
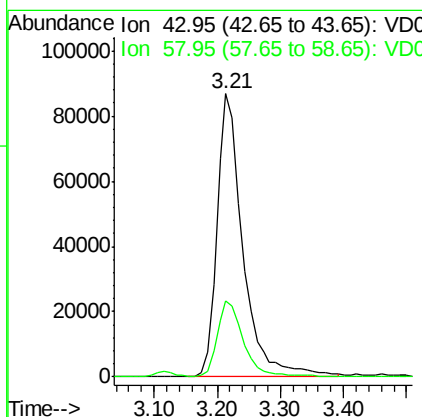
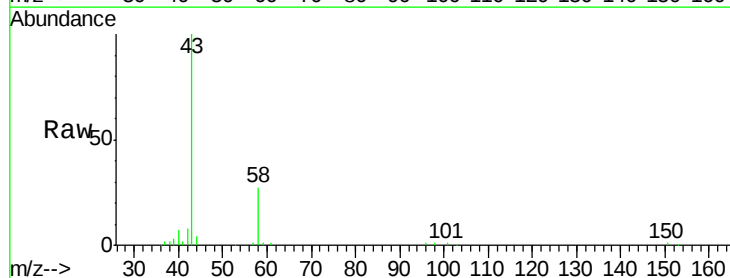
Manual Integrations
 APPROVED

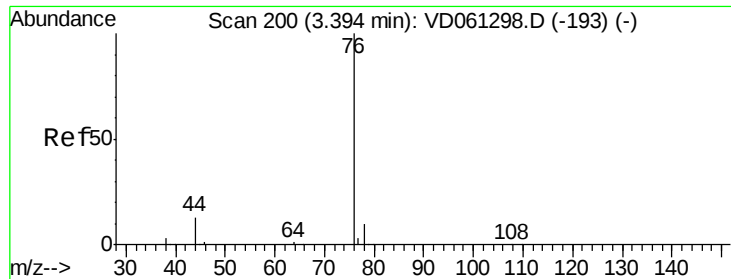
MMDadoda
 3/27/2019 12:02:26 PM



#16
 Acetone
 Concen: 1620.137 ug/l
 RT: 3.21 min Scan# 182
 Delta R.T. -0.02 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	250045		
58	26.7		19.4	29.0





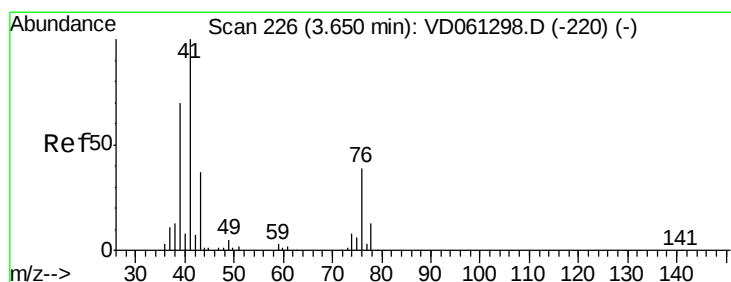
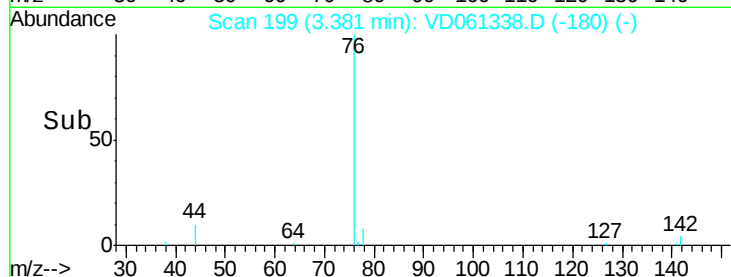
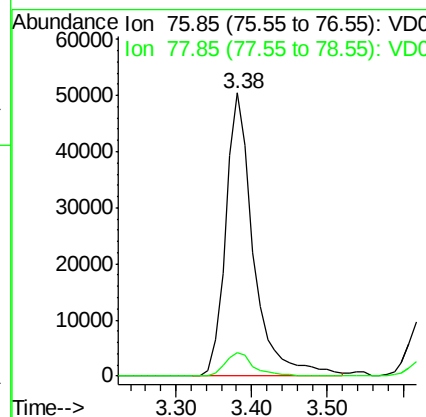
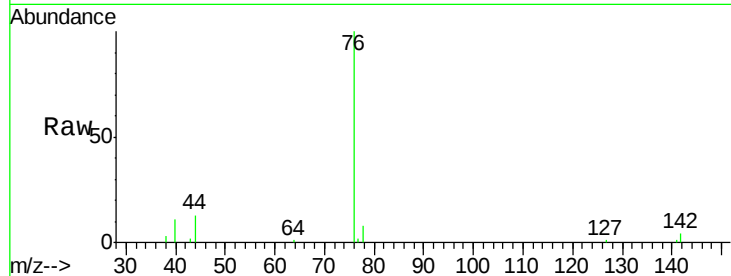
#17
Carbon Disulfide
Concen: 53.500 ug/l
RT: 3.38 min Scan# 199
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion: 76 Resp: 128288
Ion Ratio Lower Upper
76 100
78 8.5 7.8 11.6

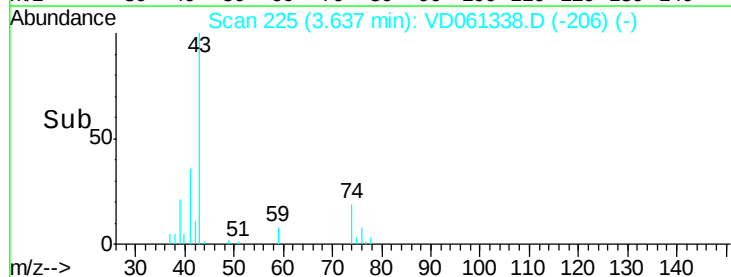
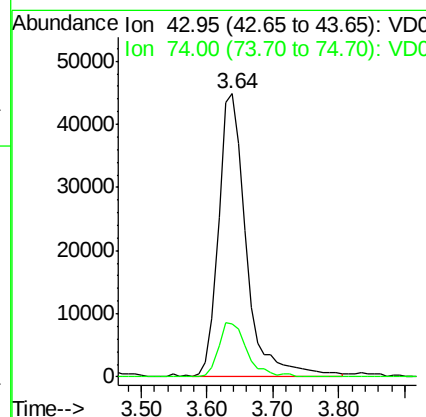
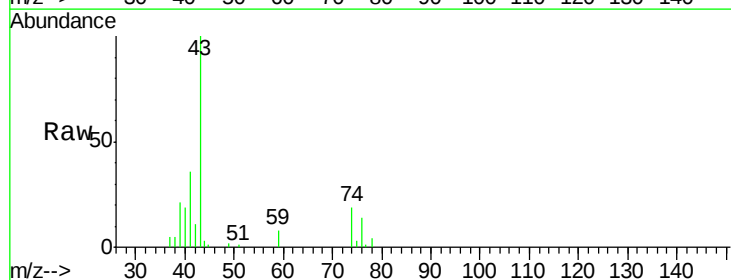
Manual Integrations
APPROVED

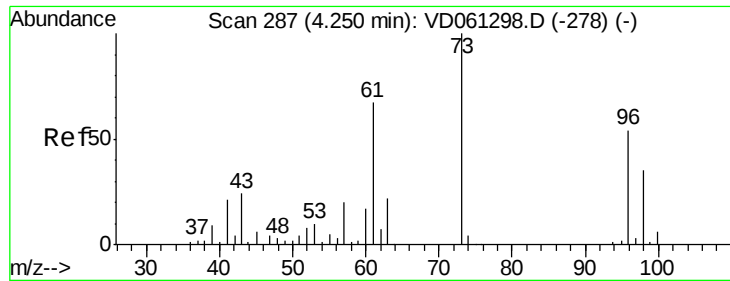
MMDadoda
3/27/2019 12:02:26 PM



#18
Methyl Acetate
Concen: 451.135 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion: 43 Resp: 131607
Ion Ratio Lower Upper
43 100
74 18.8 16.6 25.0





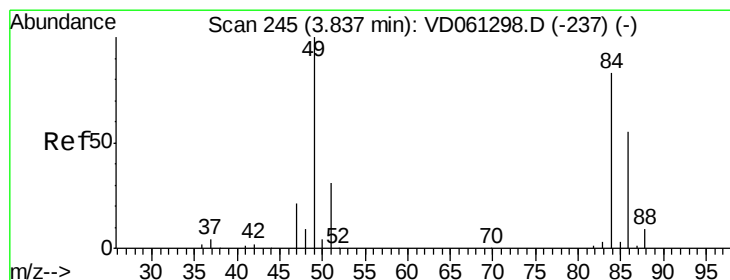
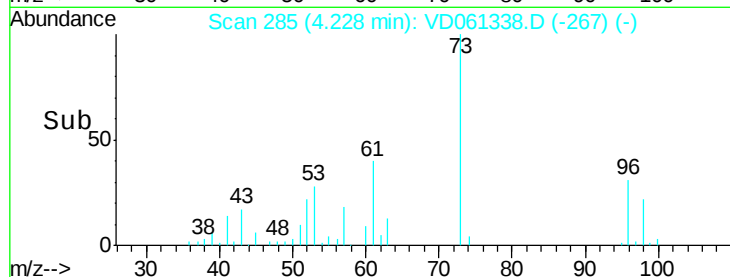
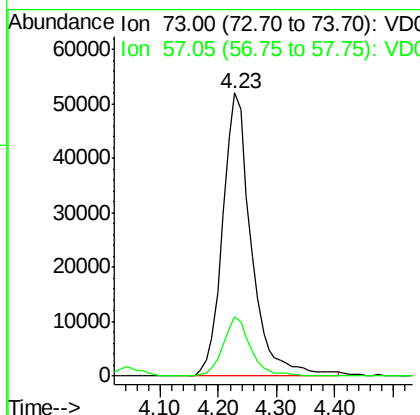
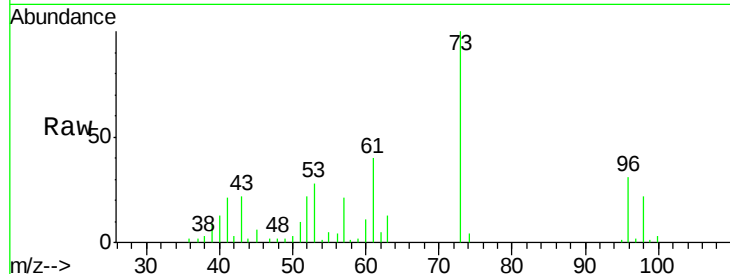
#19
Methyl tert-butyl Ether
Concen: 140.059 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion: 73 Resp: 178089
Ion Ratio Lower Upper
73 100
57 21.1 16.3 24.5

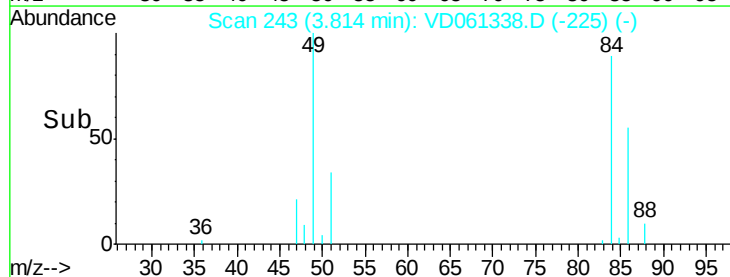
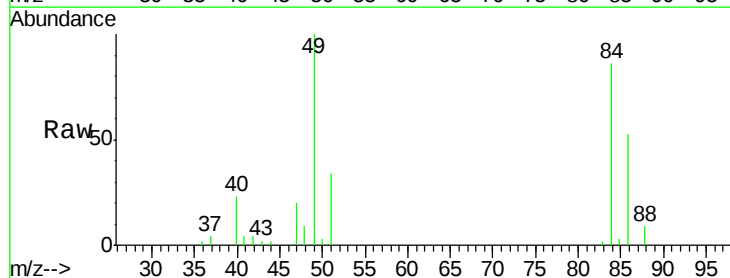
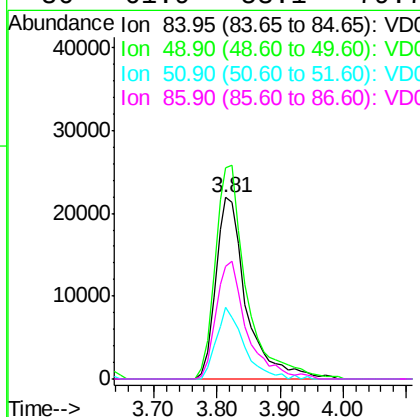
Manual Integrations
APPROVED

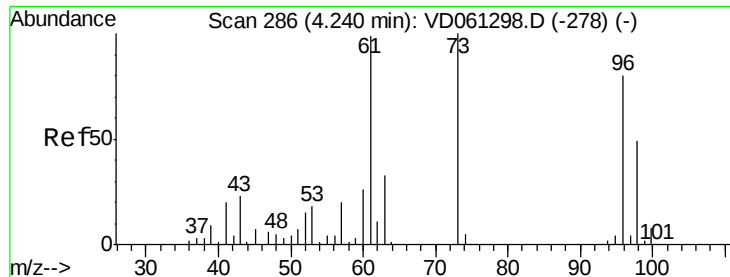
MMDadoda
3/27/2019 12:02:26 PM



#20
Methylene Chloride
Concen: 84.767 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion: 84 Resp: 74252
Ion Ratio Lower Upper
84 100
49 116.4 96.8 145.2
51 39.2 29.9 44.9
86 61.9 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 67.354 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

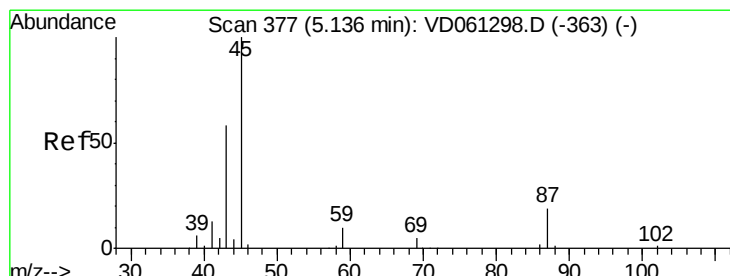
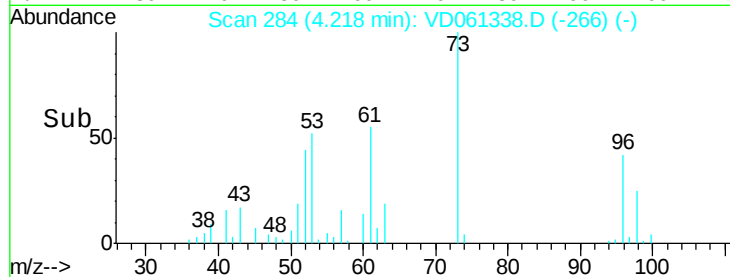
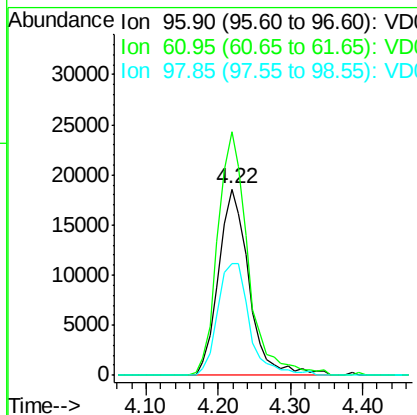
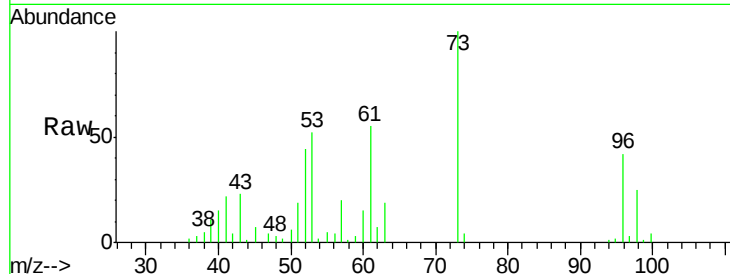
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:	96	Resp:	54403
Ion	Ratio	Lower	Upper
96	100		
61	130.7	99.2	148.8
98	59.9	49.2	73.8

Manual Integrations
APPROVED

MMDadoda
3/27/2019 12:02:26 PM



#22

Diisopropyl ether

Concen: 91.356 ug/l

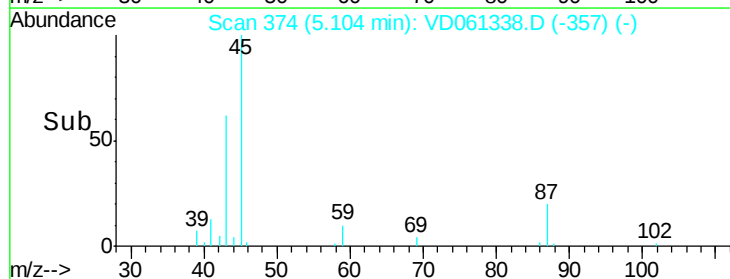
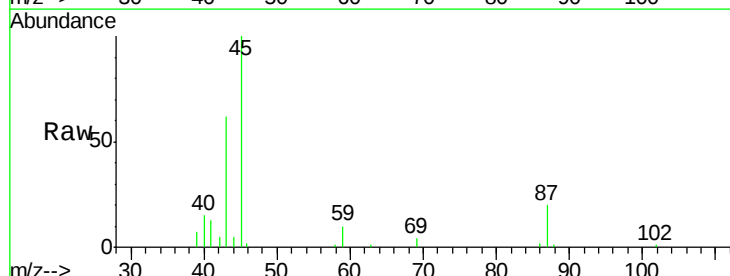
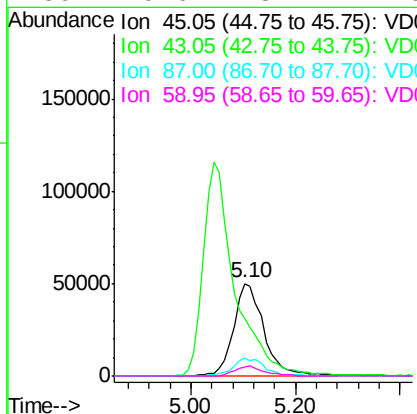
RT: 5.10 min Scan# 374

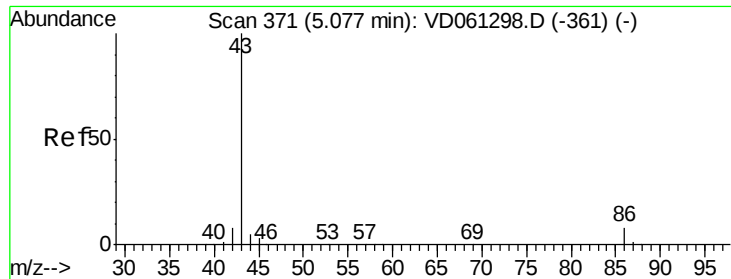
Delta R.T. -0.03 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Tgt Ion:	45	Resp:	197110
Ion	Ratio	Lower	Upper
45	100		
43	62.5	46.7	70.1
87	19.5	15.5	23.3
59	9.6	8.4	12.6





#23

Vinyl Acetate

Concen: 417.260 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.03 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 43 Resp: 480835

Ion Ratio Lower Upper

43 100

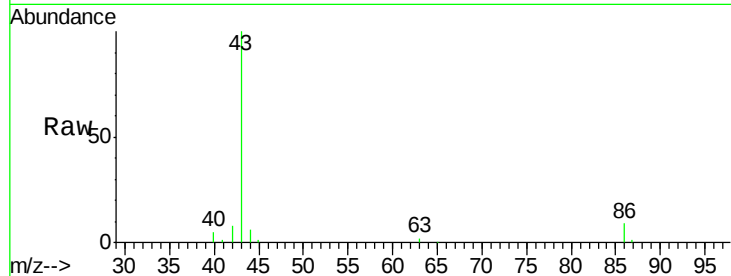
86 8.7 6.3 9.5

Manual Integrations

APPROVED

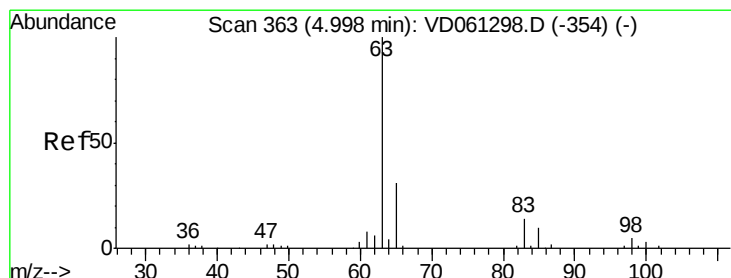
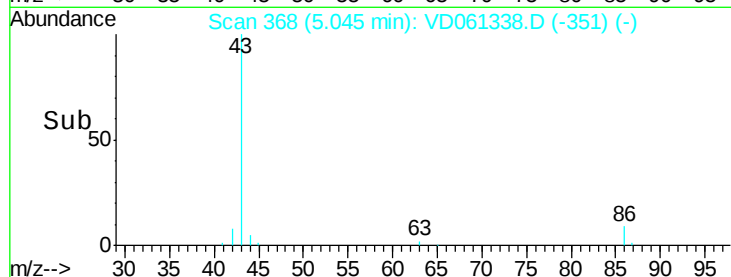
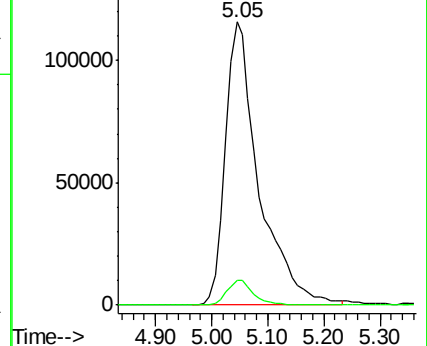
MMDadoda

3/27/2019 12:02:26 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 72.580 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

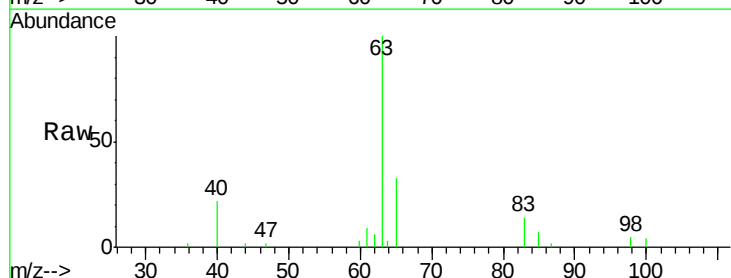
Tgt Ion: 63 Resp: 91257

Ion Ratio Lower Upper

63 100

98 5.5 2.8 8.3

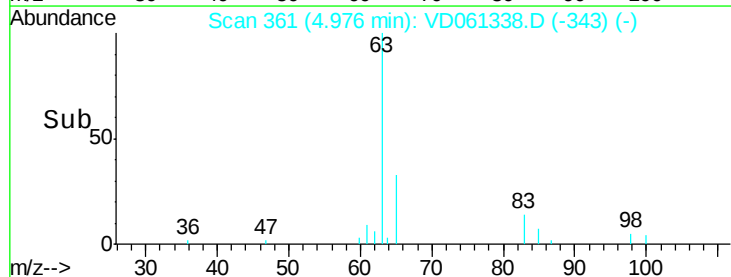
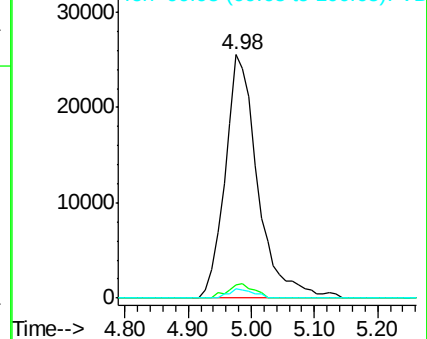
100 4.1 1.6 4.8

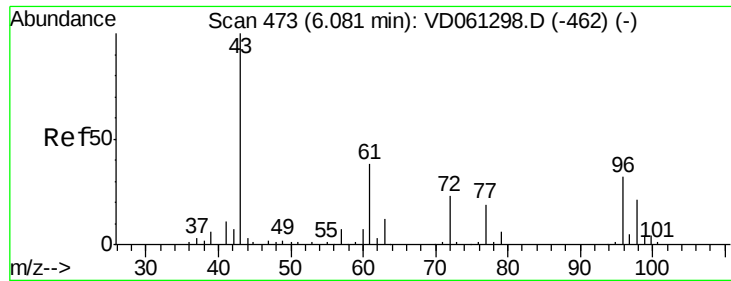


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 1404.670 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 43 Resp: 250749

Ion Ratio Lower Upper

43 100

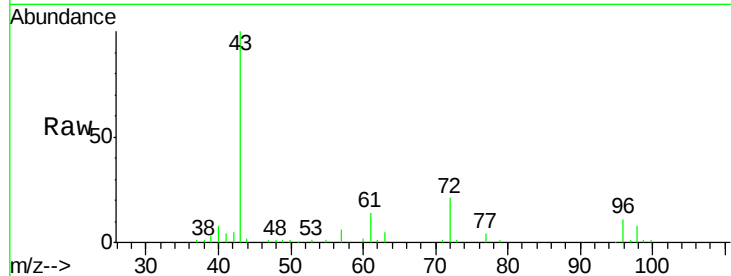
72 21.0 18.5 27.7

Manual Integrations

APPROVED

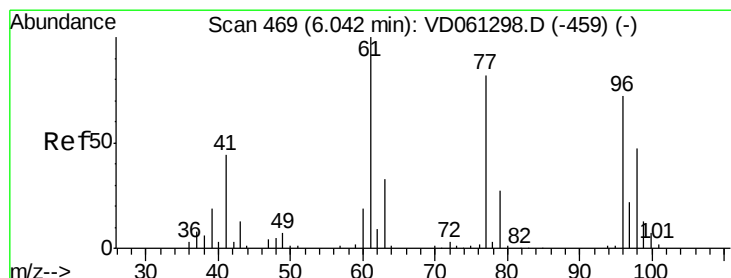
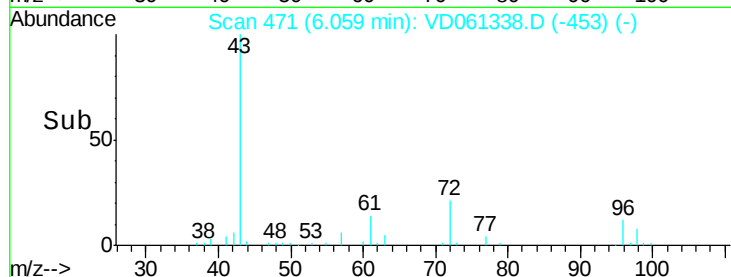
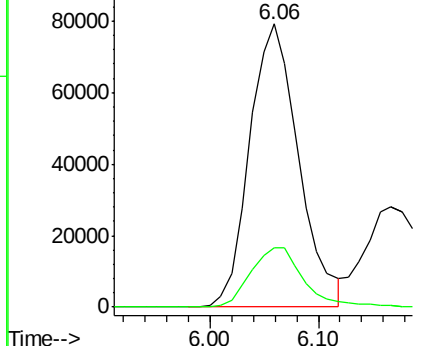
MMDadoda

3/27/2019 12:02:26 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 42.015 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD061338.D

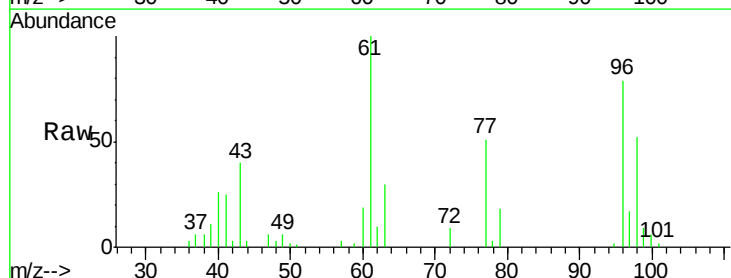
Acq: 26 Mar 2019 16:13

Tgt Ion: 77 Resp: 44856

Ion Ratio Lower Upper

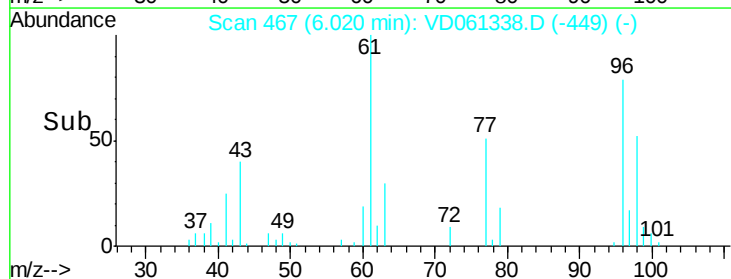
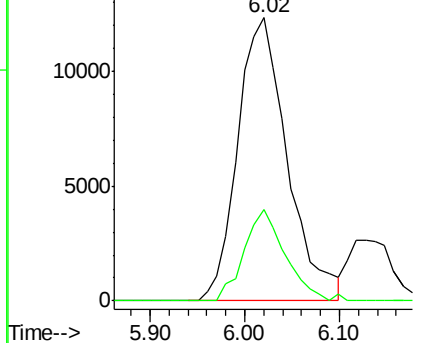
77 100

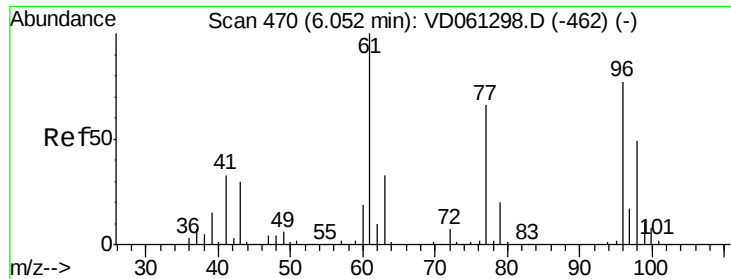
97 32.5 13.5 40.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

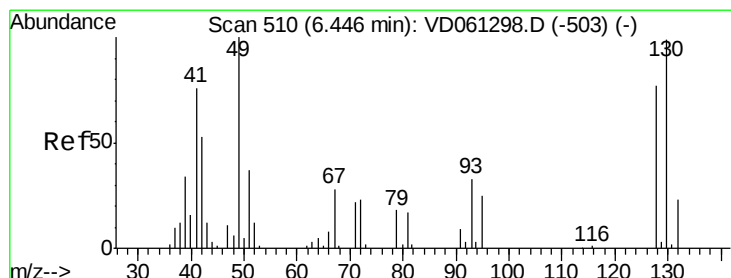
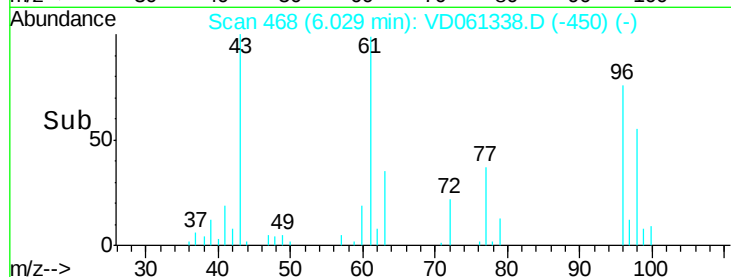
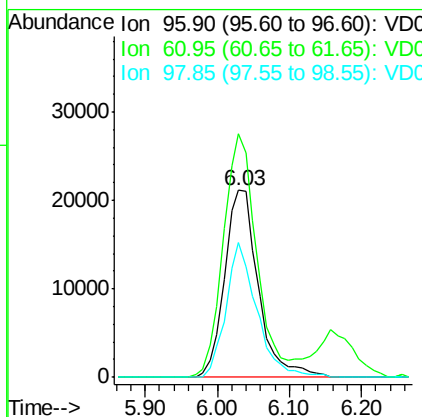
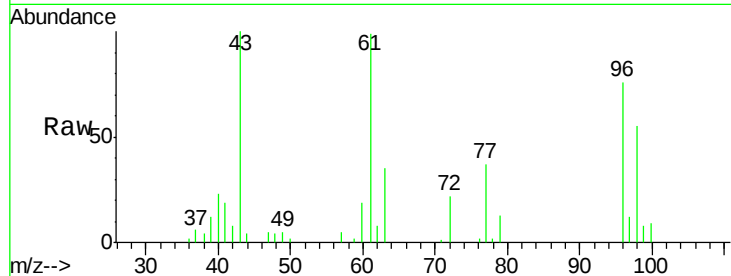
cis-1,2-Dichloroethene
Concen: 79.246 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
96	100	68882		
61	130.1		0.0	261.0
98	71.8		0.0	127.6

Manual Integrations
APPROVED

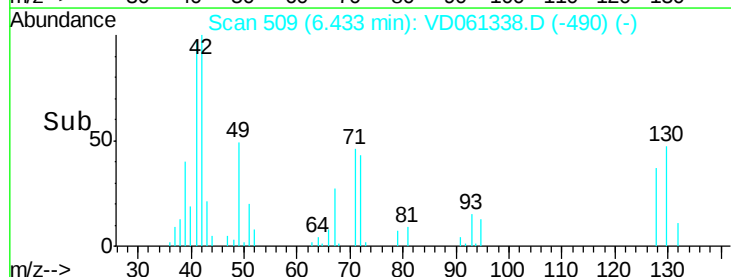
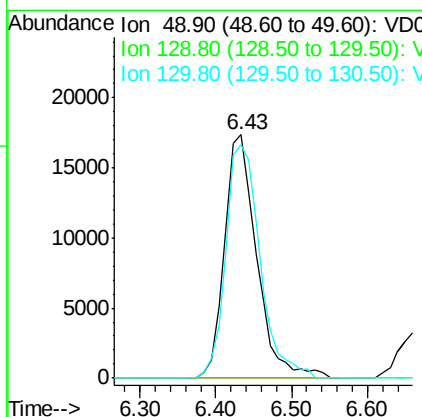
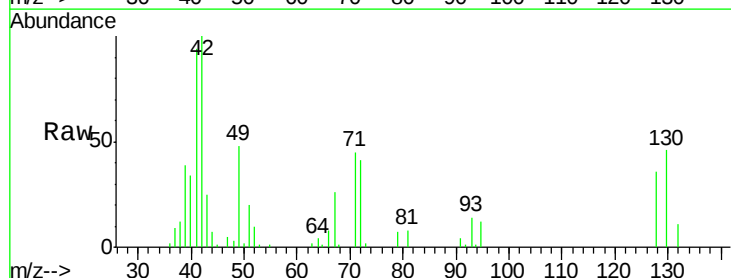
MMDadoda
3/27/2019 12:02:26 PM

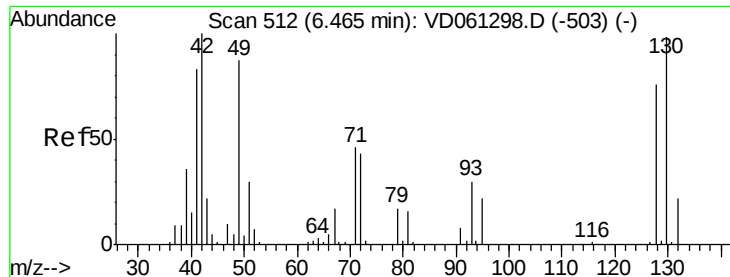


#28

Bromochloromethane
Concen: 97.146 ug/l
RT: 6.43 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	51125		
129	0.0		0.0	5.2
130	95.9		79.0	118.6





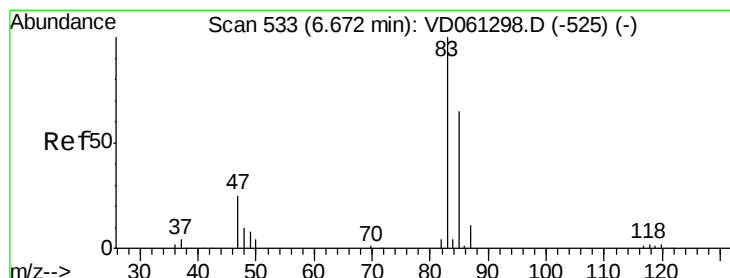
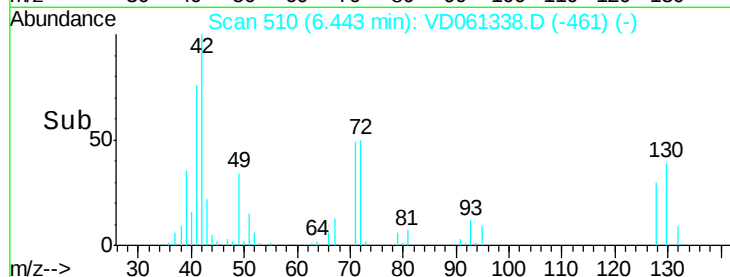
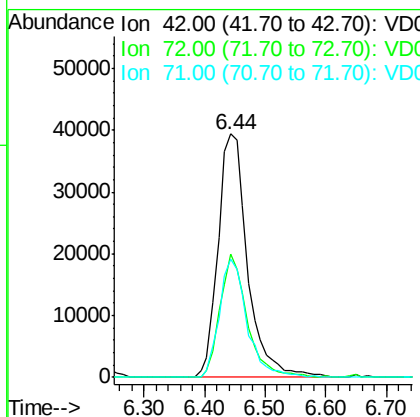
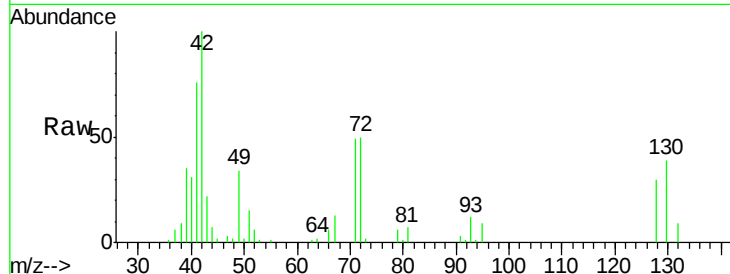
#29
Tetrahydrofuran
Concen: 1503.796 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.5	36.6	54.8
71	45.6	36.3	54.5

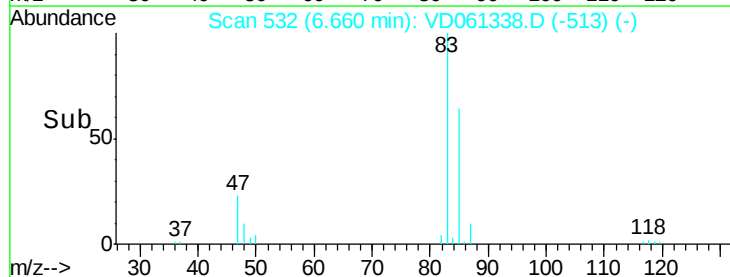
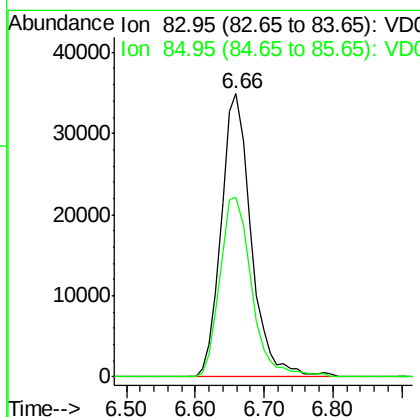
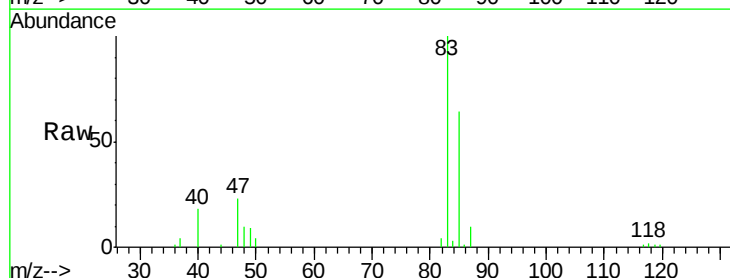
Manual Integrations
APPROVED

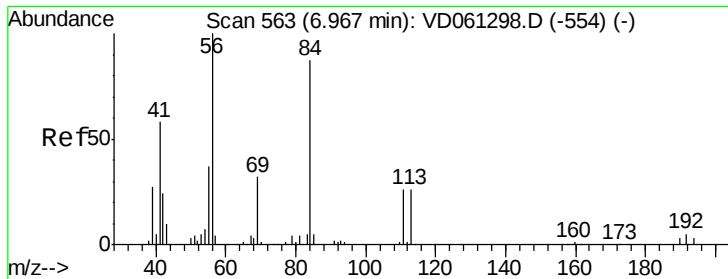
MMDadoda
3/27/2019 12:02:26 PM



#30
Chloroform
Concen: 78.525 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.2	78.2





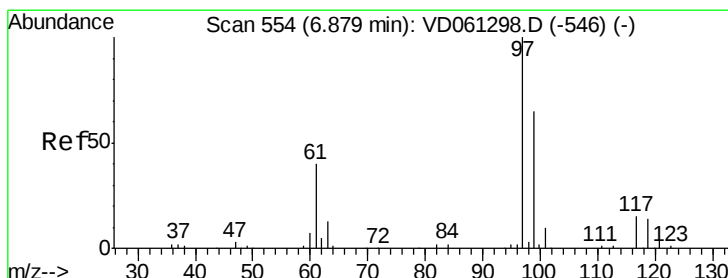
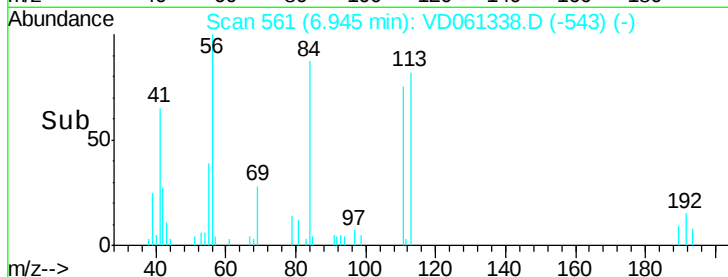
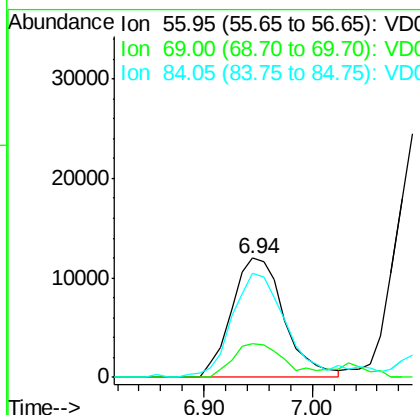
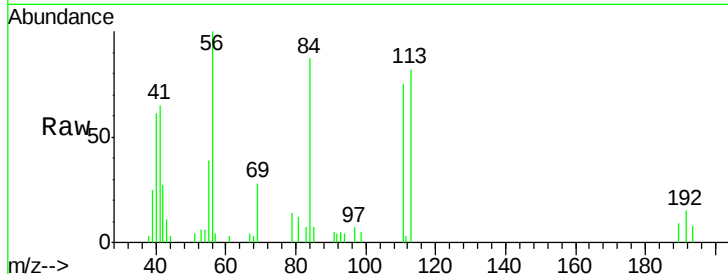
#31
Cyclohexane
Concen: 39.665 ug/l
RT: 6.94 min Scan# 561
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	56	Resp	40478
Ion Ratio	Lower	Upper	
56	100		
69	28.1	25.5	38.3
84	87.2	71.4	107.2

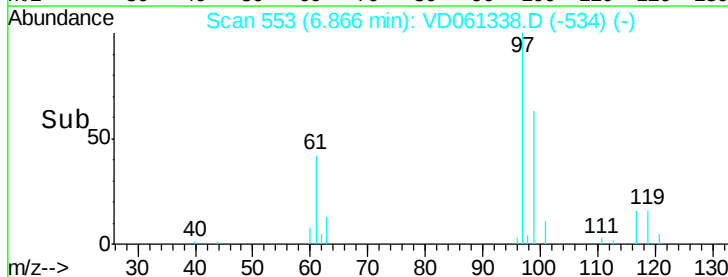
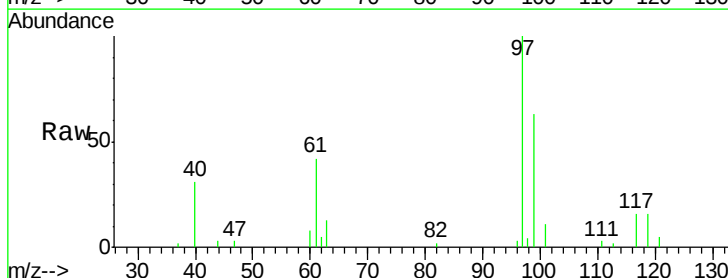
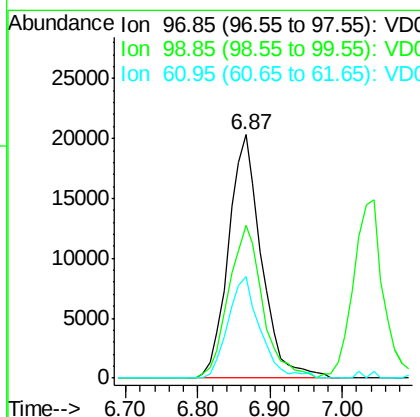
Manual Integrations
APPROVED

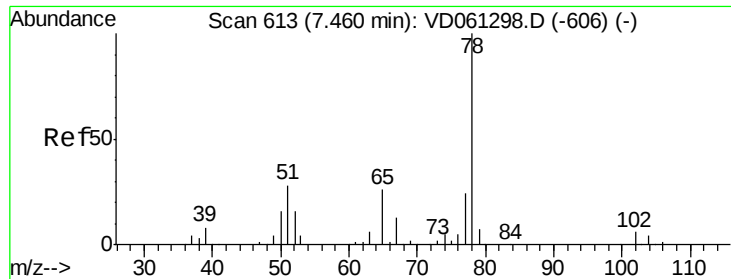
MMDadoda
3/27/2019 12:02:26 PM



#32
1,1,1-Trichloroethane
Concen: 54.313 ug/l
RT: 6.87 min Scan# 553
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	97	Resp	64450
Ion Ratio	Lower	Upper	
97	100		
99	62.8	51.8	77.6
61	41.6	31.9	47.9





#33

1,2-Dichloroethane-d4

Concen: 54.313 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 65 Resp: 68022

Ion Ratio Lower Upper

65 100

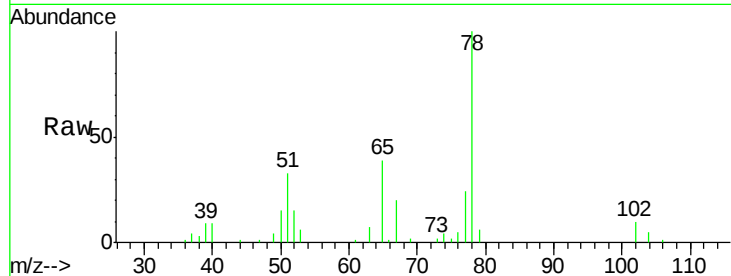
67 50.9 0.0 100.8

Manual Integrations

APPROVED

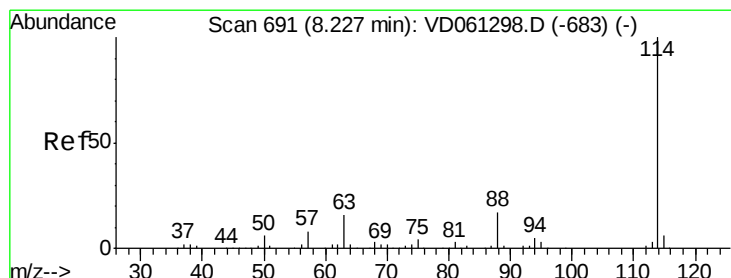
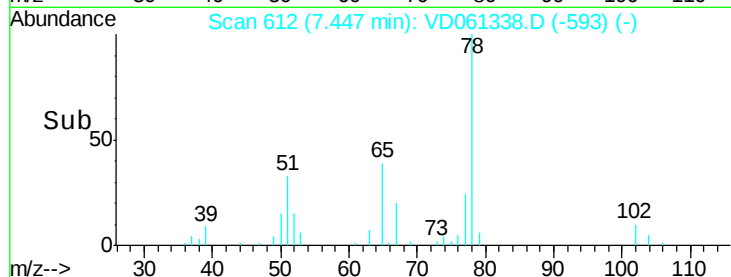
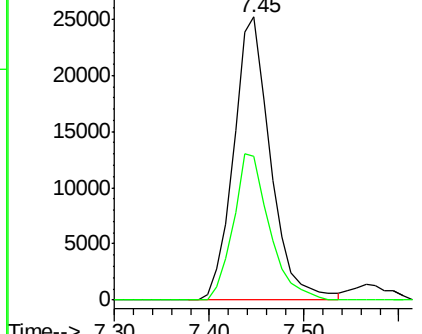
MMDadoda

3/27/2019 12:02:26 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

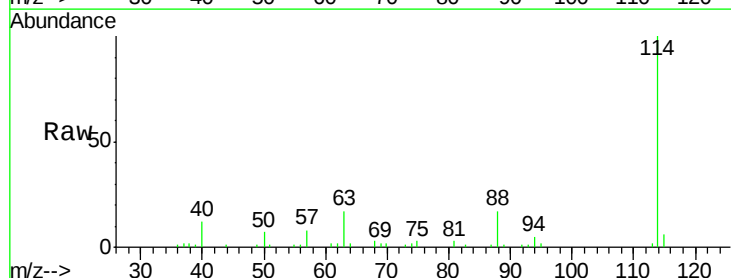
Tgt Ion: 114 Resp: 154116

Ion Ratio Lower Upper

114 100

63 16.9 0.0 31.4

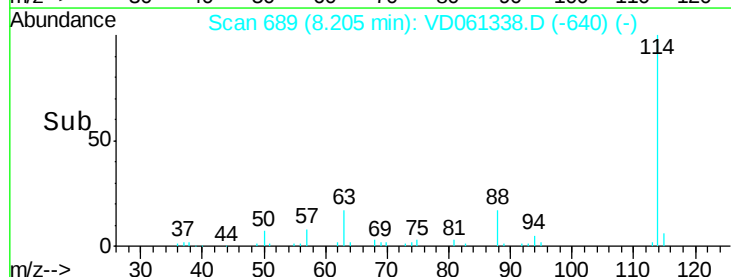
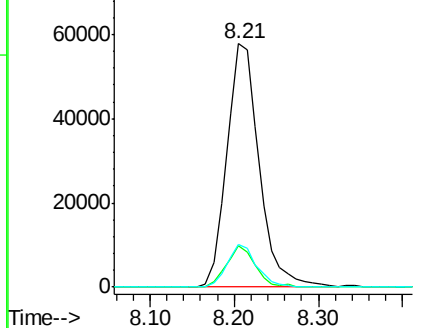
88 17.4 0.0 33.2

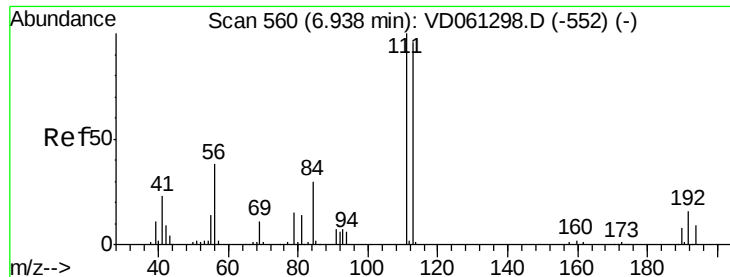


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





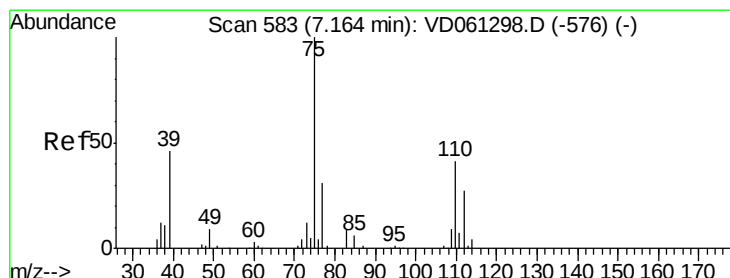
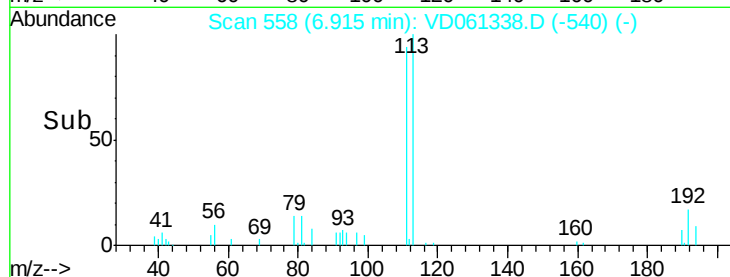
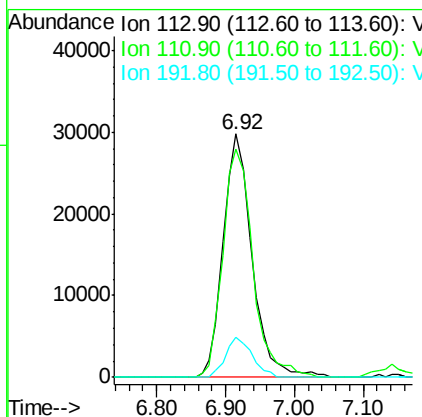
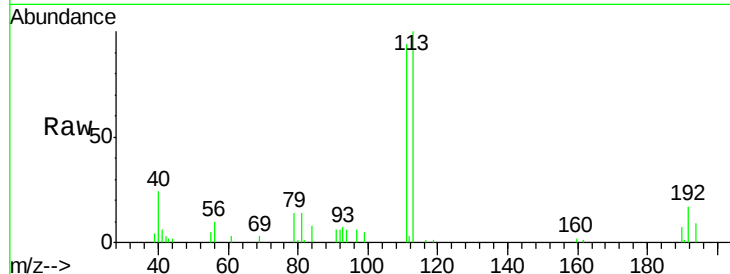
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.92 min Scan# 558
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100	86343		
111	93.6		83.7	125.5
192	16.6		13.4	20.0

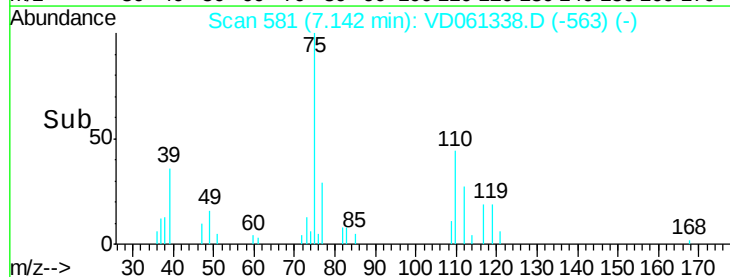
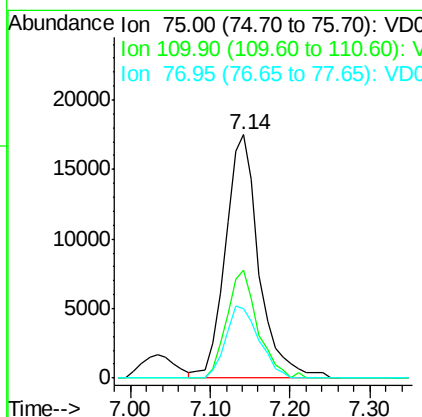
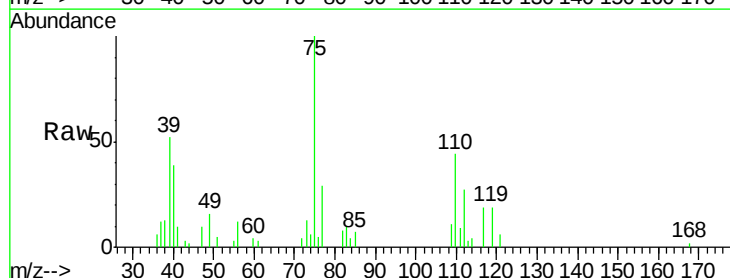
Manual Integrations
APPROVED

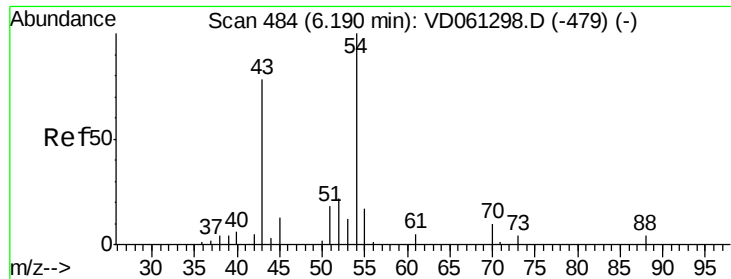
MMDadoda
3/27/2019 12:02:26 PM



#36
1,1-Dichloropropene
Concen: 40.820 ug/l
RT: 7.14 min Scan# 581
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	51471		
110	44.2		20.1	60.2
77	28.8		24.3	36.5





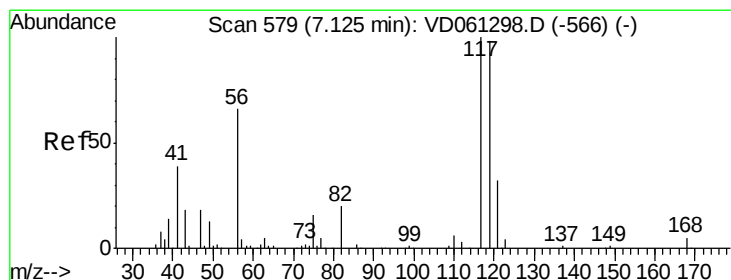
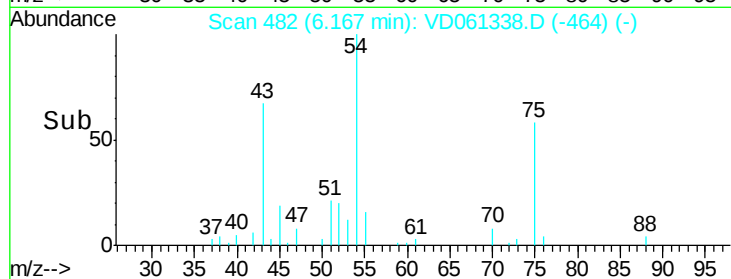
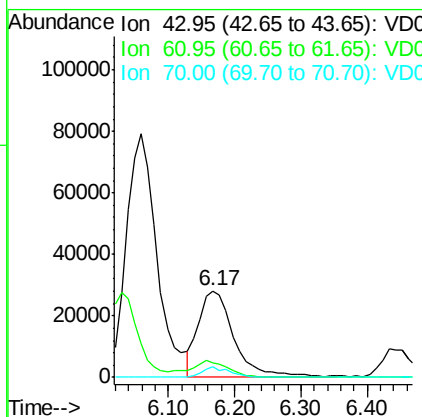
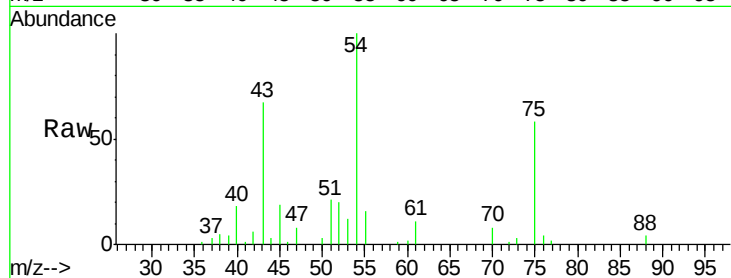
#37
Ethyl Acetate
Concen: 201.710 ug/l m
RT: 6.17 min Scan# 482
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	12.6	19.0
70	12.4	8.2	12.4

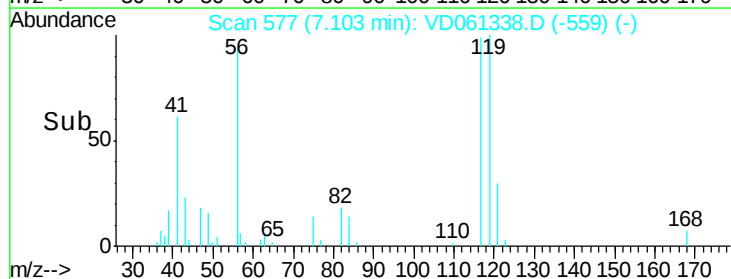
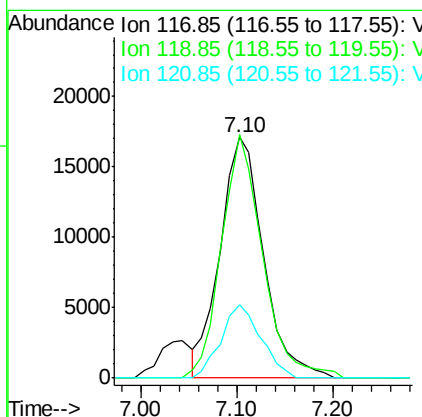
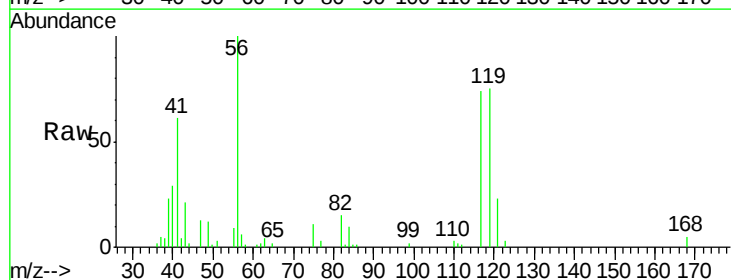
Manual Integrations
APPROVED

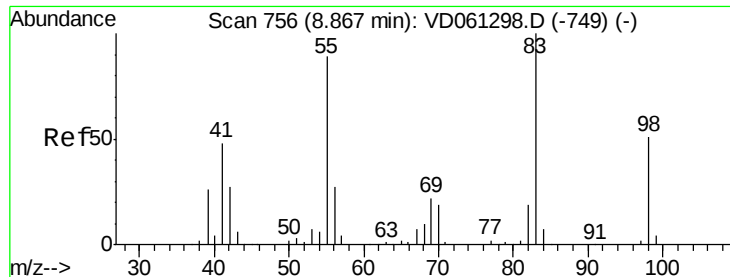
MMDadoda
3/27/2019 12:02:26 PM



#38
Carbon Tetrachloride
Concen: 37.357 ug/l m
RT: 7.10 min Scan# 577
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	101.1	78.4	117.6
121	30.4	25.1	37.7





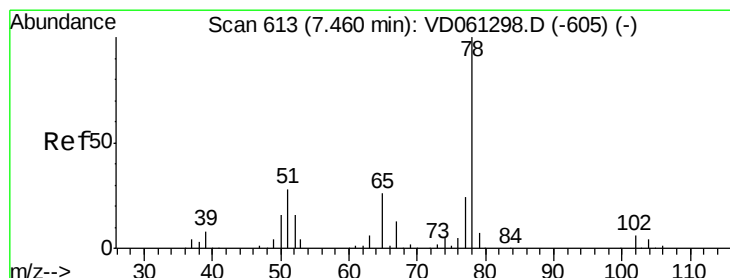
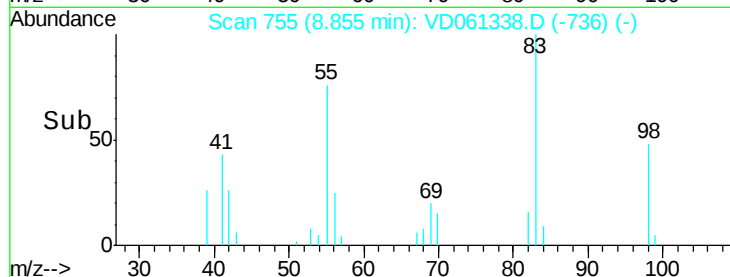
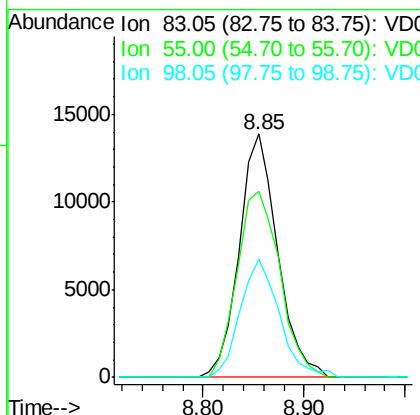
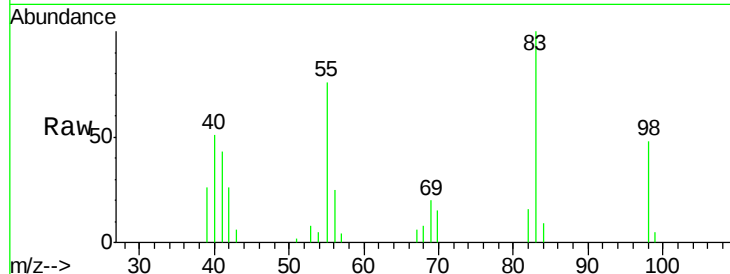
#39
Methylvlcyclohexane
Concen: 28.096 ug/l
RT: 8.85 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	83	Resp	36690
Ion Ratio	Lower	Upper	
83	100		
55	76.4	71.3	106.9
98	48.5	40.4	60.6

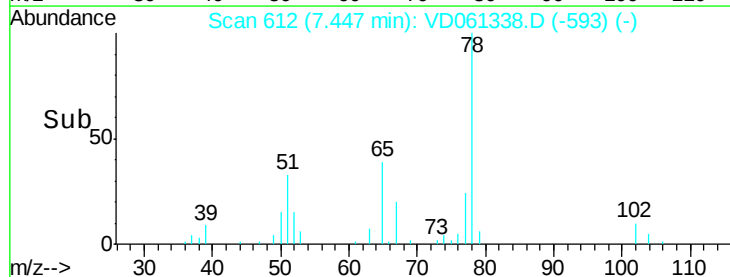
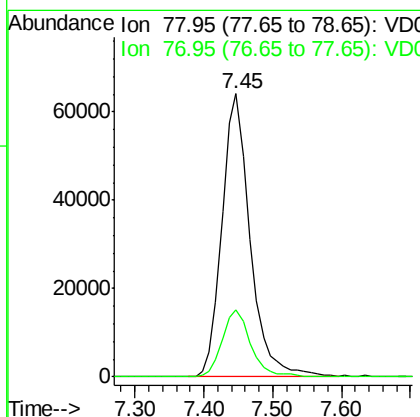
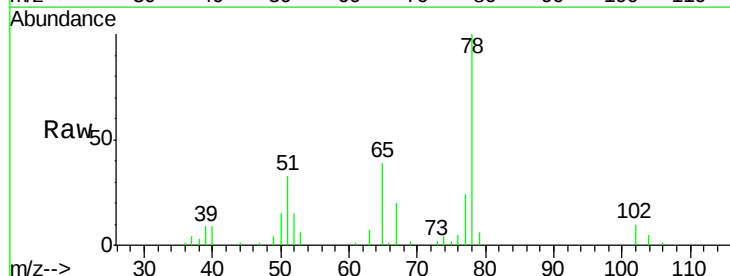
Manual Integrations
APPROVED

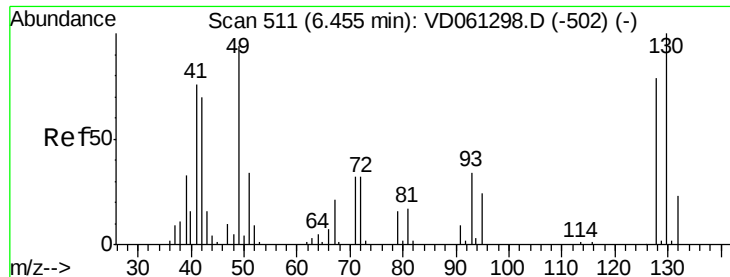
MMDadoda
3/27/2019 12:02:26 PM



#40
Benzene
Concen: 58.169 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	78	Resp	182161
Ion Ratio	Lower	Upper	
78	100		
77	23.9	18.8	28.2





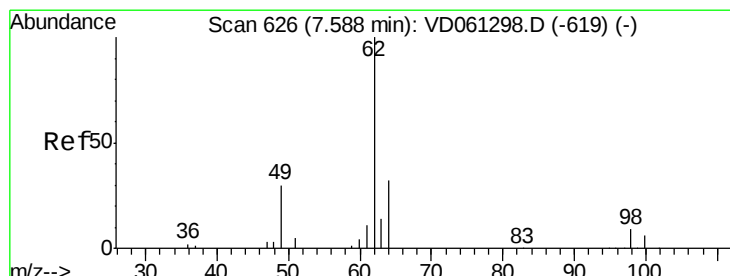
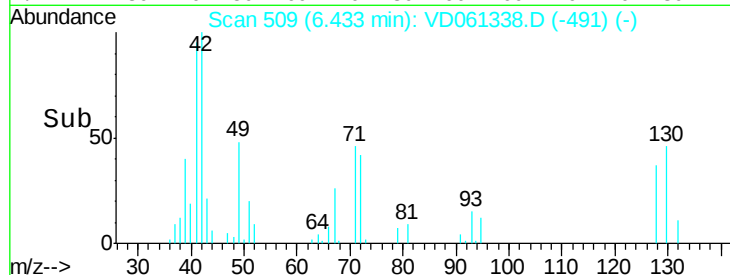
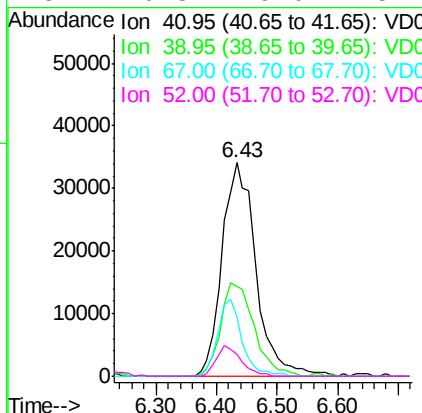
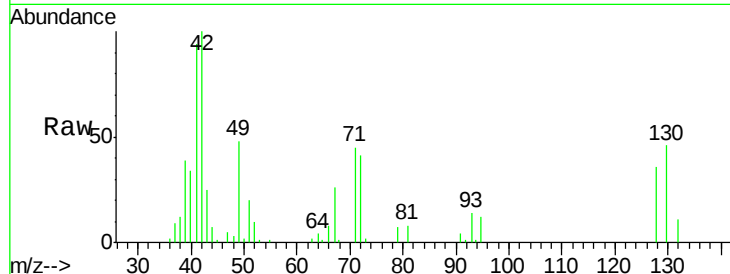
#41
Methacrylonitrile
Concen: 216.142 ug/l
RT: 6.43 min Scan# 509
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ion	Resp	Lower	Upper
41	100			
39	42.2	34.2	51.2	
67	27.6	21.8	32.6	
52	10.3	9.0	13.4	

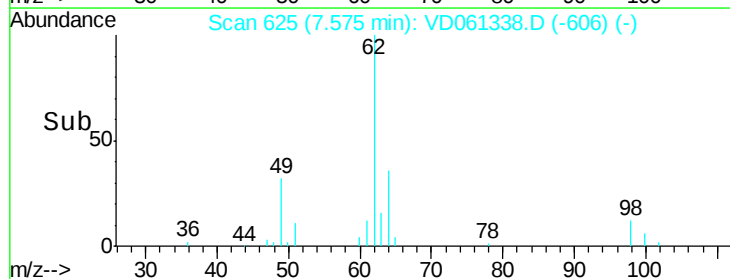
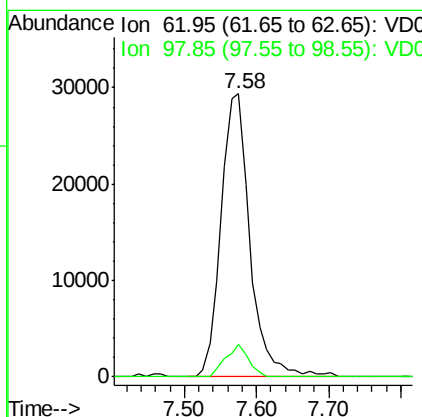
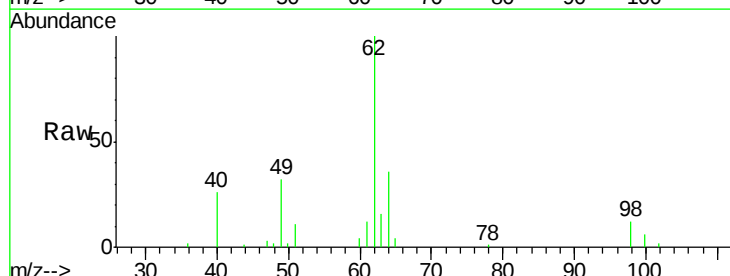
Manual Integrations
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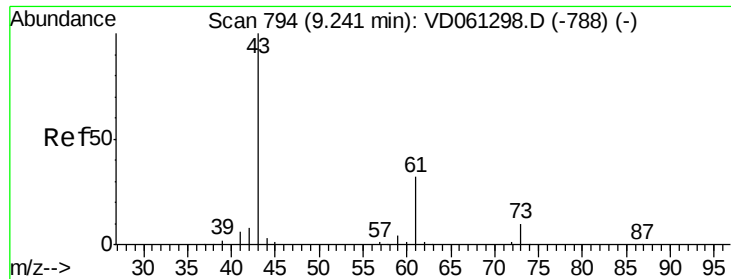
MMDadoda
3/27/2019 12:02:26 PM



#42
1,2-Dichloroethane
Concen: 83.638 ug/l
RT: 7.58 min Scan# 625
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ion	Resp	Lower	Upper
62	100			
98	11.6	0.0	18.6	





#43

Isopropyl Acetate

Concen: 149.731 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

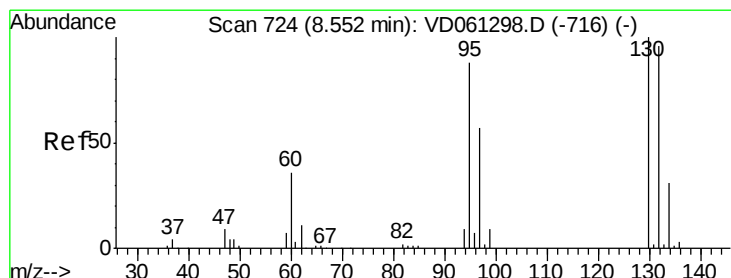
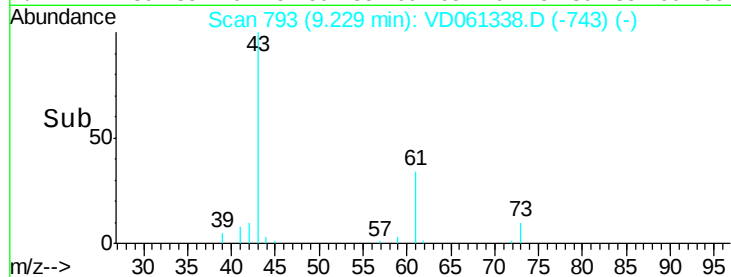
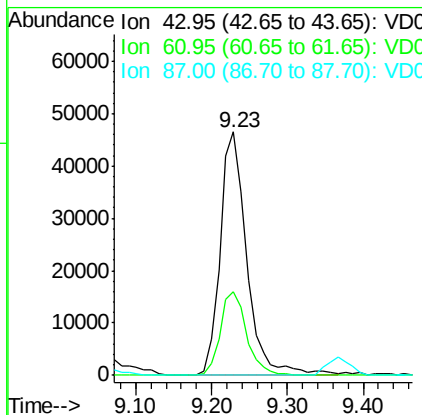
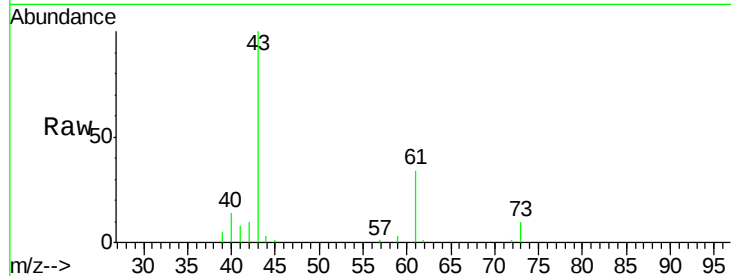
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:	43	Resp:	113703
Ion	Ratio	Lower	Upper
43	100		
61	34.1	25.8	38.8
87	0.0	0.3	0.5#

Manual Integrations
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3/27/2019 12:02:26 PM



#44

Trichloroethene

Concen: 52.600 ug/l

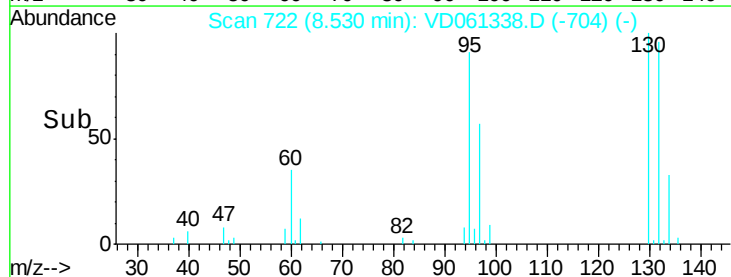
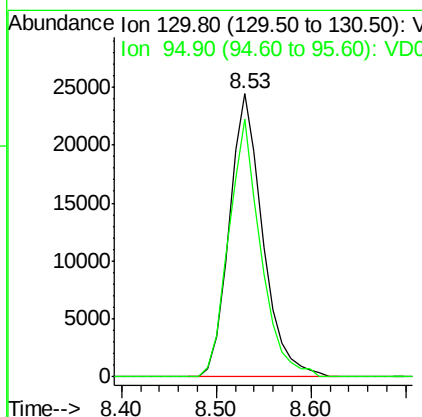
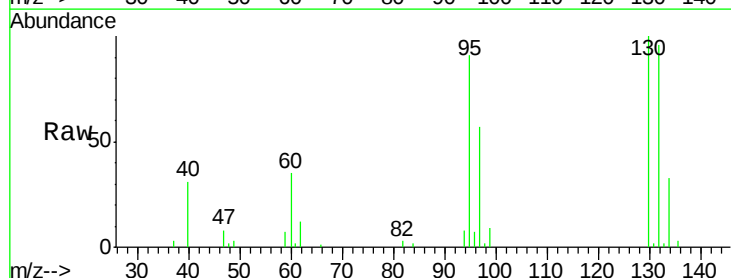
RT: 8.53 min Scan# 722

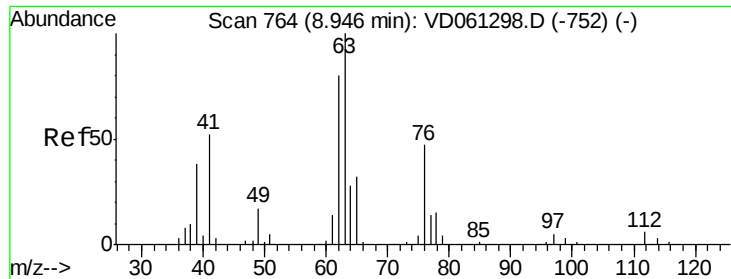
Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Tgt Ion:	130	Resp:	59572
Ion	Ratio	Lower	Upper
130	100		
95	91.2	0.0	175.0





#45

1,2-Dichloropropane

Concen: 63.791 ug/l

RT: 8.92 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 63 Resp: 49304

Ion Ratio Lower Upper

63 100

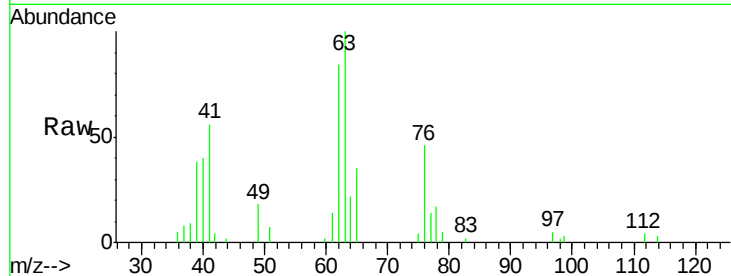
65 35.4 25.2 37.8

Manual Integrations

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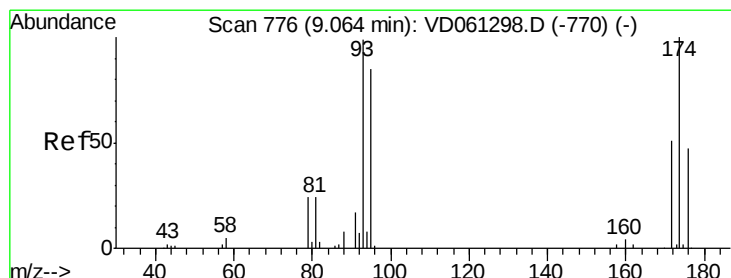
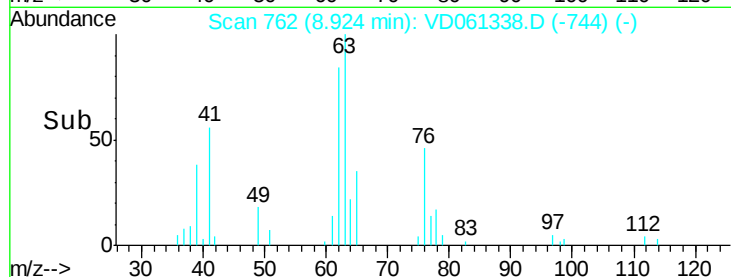
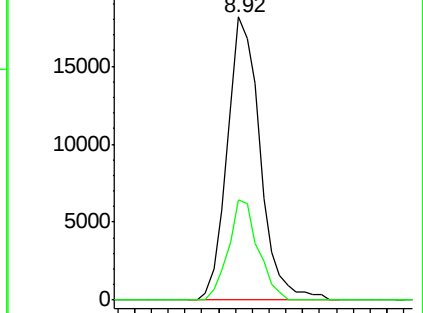
MMDadoda

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 107.977 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

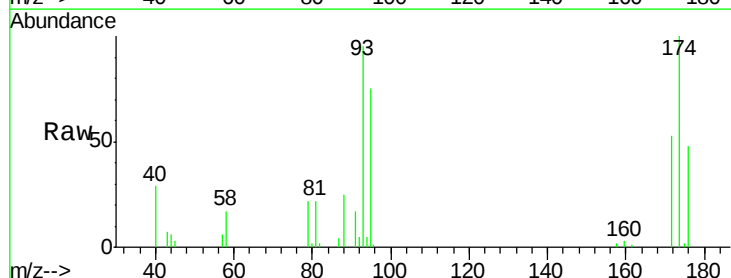
Tgt Ion: 93 Resp: 57205

Ion Ratio Lower Upper

93 100

95 78.8 68.1 102.1

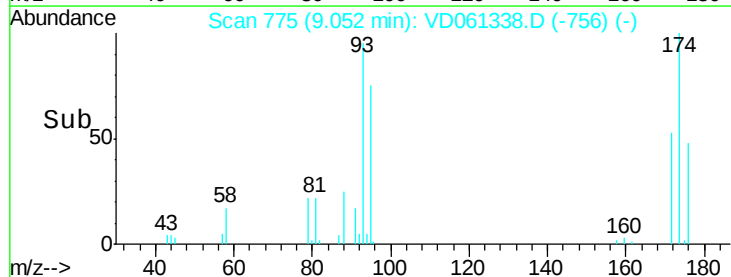
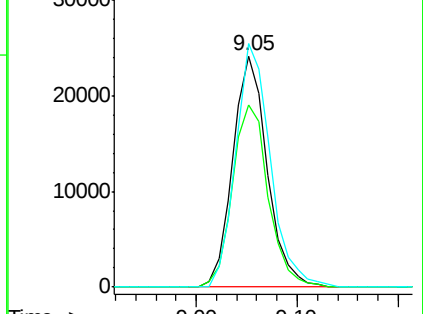
174 105.4 80.4 120.6

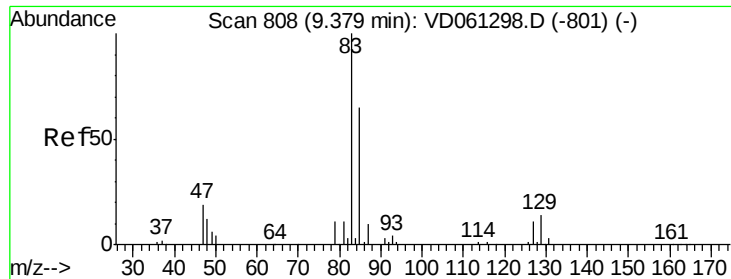


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 65.070 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

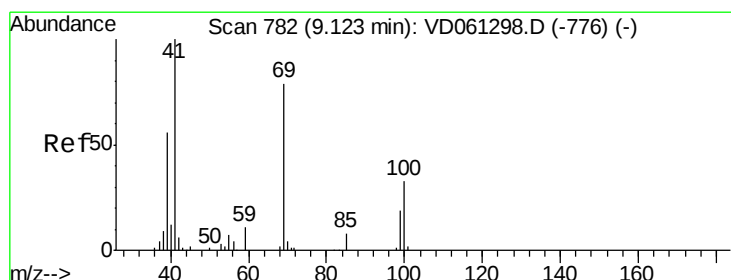
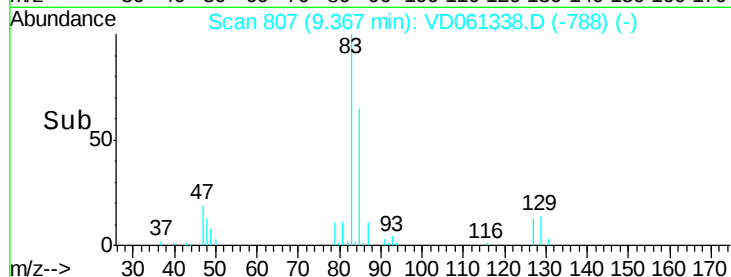
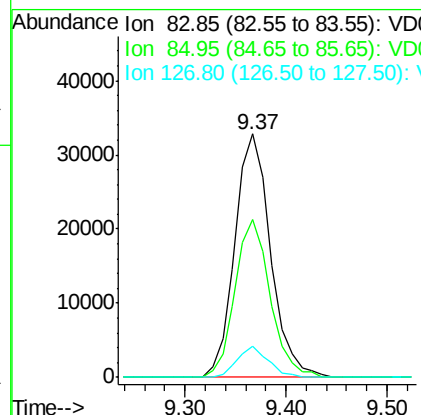
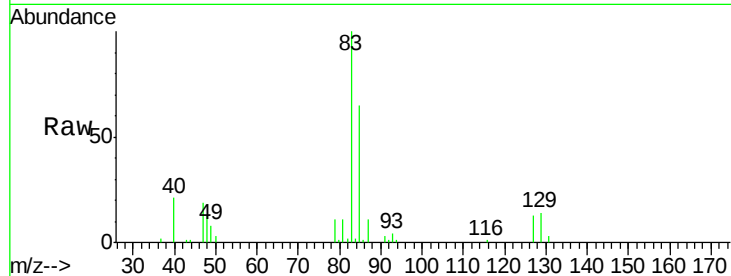
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:	83	Resp:	80801
Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.7	77.5
127	13.0	8.8	13.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 172.221 ug/l

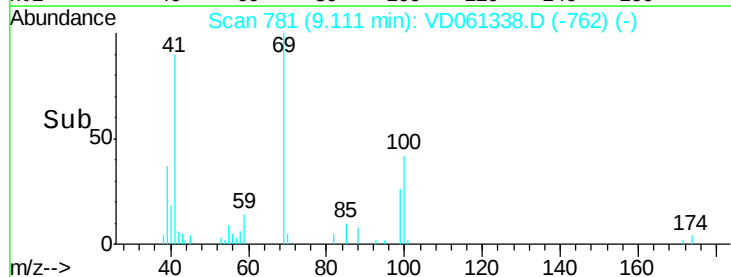
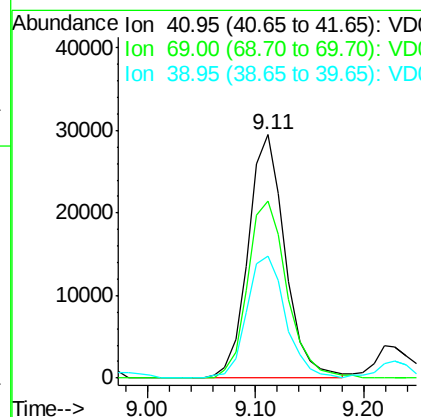
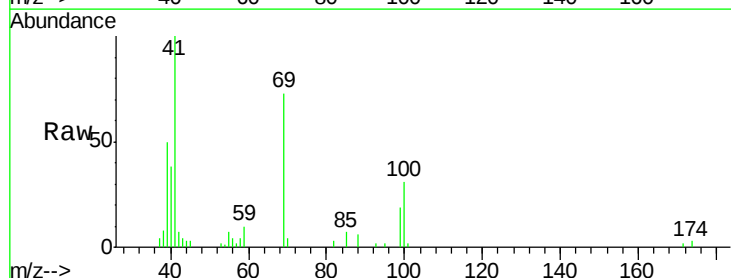
RT: 9.11 min Scan# 781

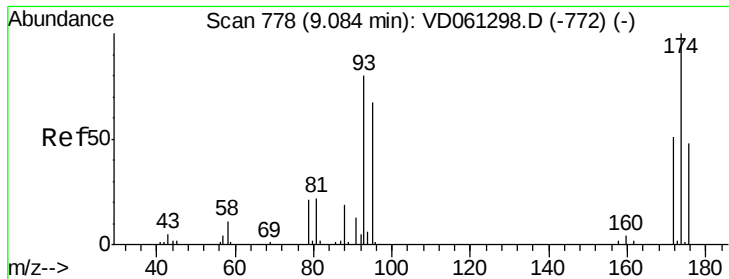
Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Tgt Ion:	41	Resp:	69803
Ion	Ratio	Lower	Upper
41	100		
69	72.7	62.4	93.6
39	50.3	44.9	67.3





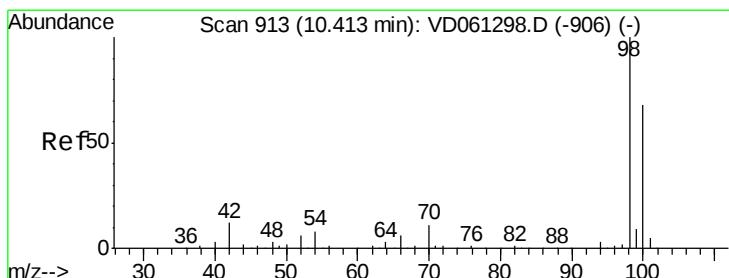
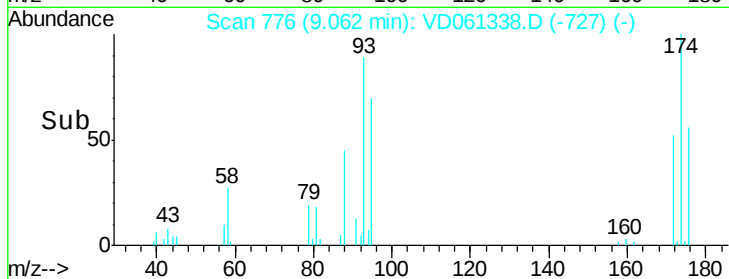
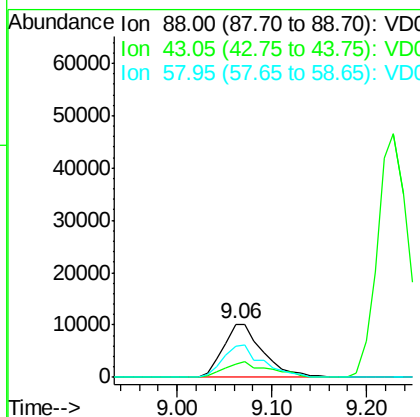
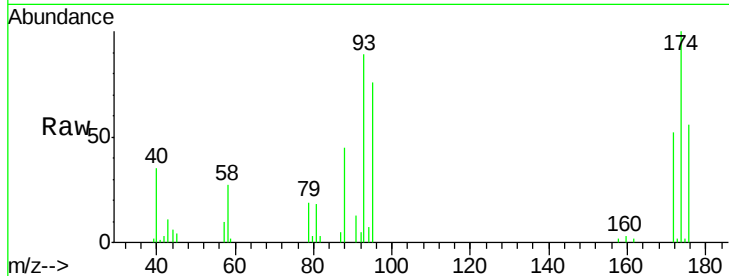
#49
1,4-Dioxane
Concen: 6650.674 ug/l
RT: 9.06 min Scan# 776
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
88	100	29576		
43	23.6	20.7	31.1	
58	59.4	44.9	67.3	

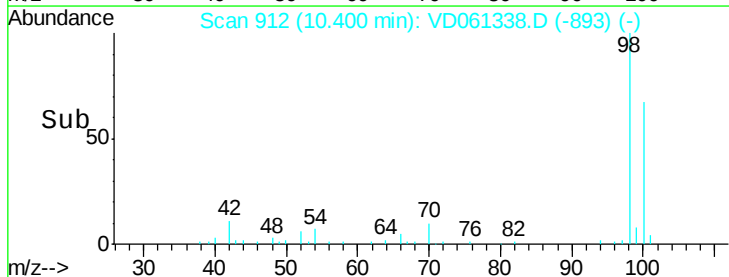
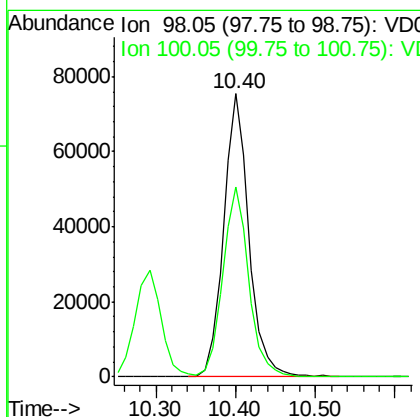
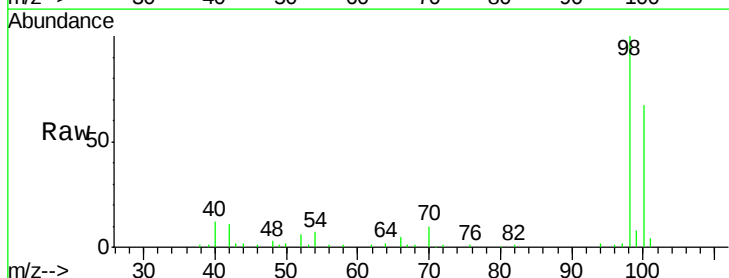
Manual Integrations
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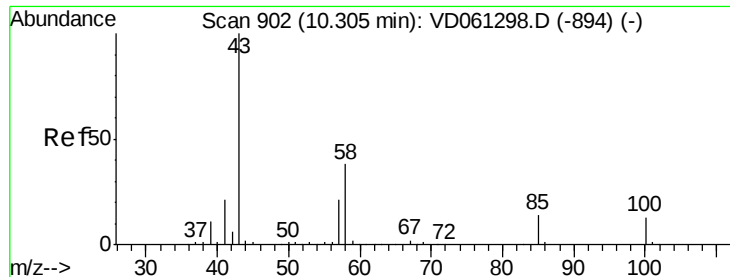
MMDadoda
3/27/2019 12:02:26 PM



#50
Toluene-d8
Concen: 6650.674 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	167634		
100	67.1	55.4	83.0	





#51

4-Methyl-2-Pentanone

Concen: 1074.206 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 43 Resp: 485602

Ion Ratio Lower Upper

43 100

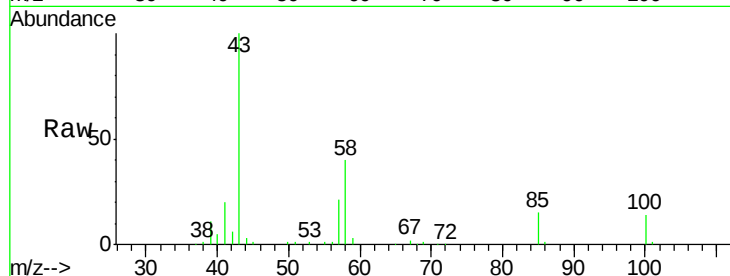
58 39.6 30.6 45.8

Manual Integrations

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MMDadoda

3/27/2019 12:02:26 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

200000

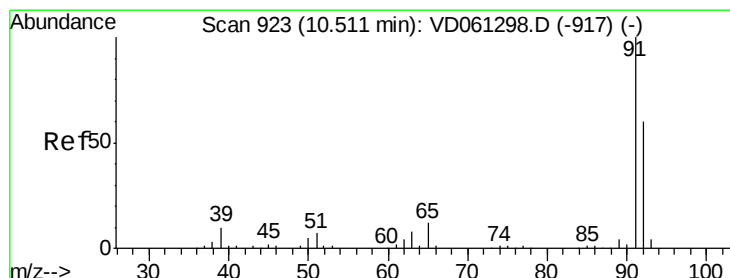
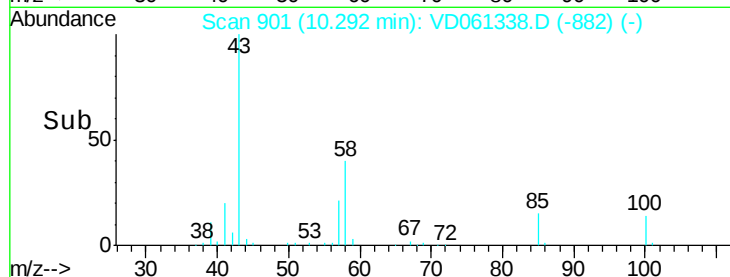
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 70.292 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD061338.D

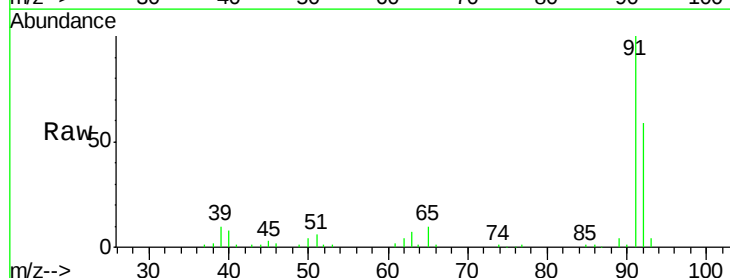
Acq: 26 Mar 2019 16:13

Tgt Ion: 92 Resp: 134689

Ion Ratio Lower Upper

92 100

91 170.0 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

120000

100000

80000

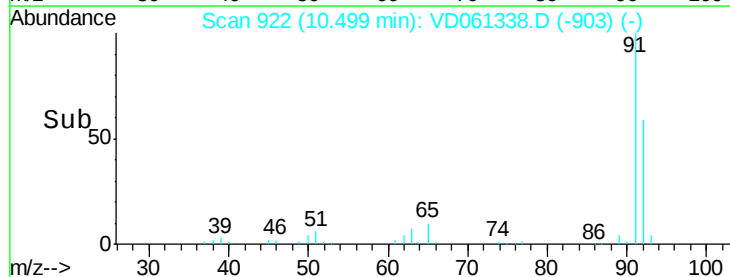
60000

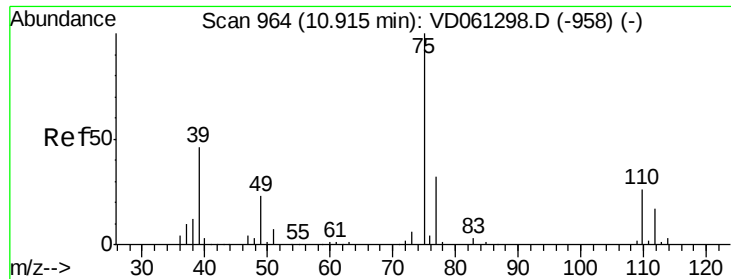
40000

20000

0

Time-->





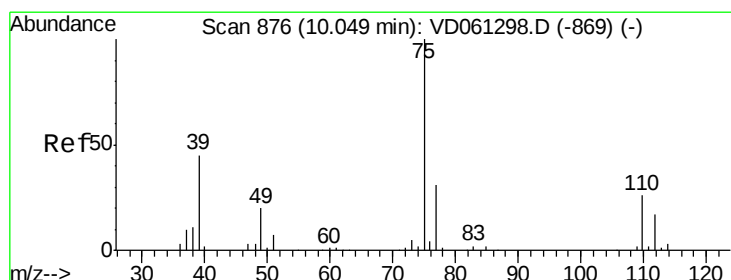
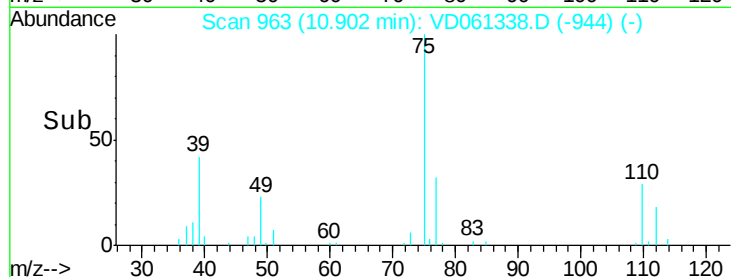
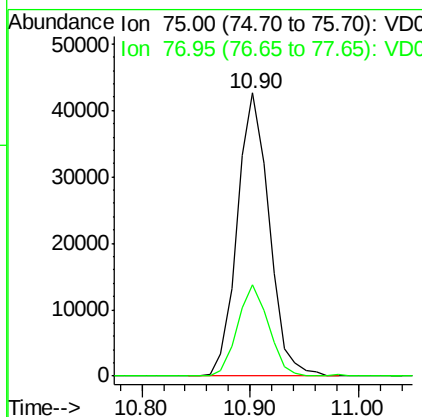
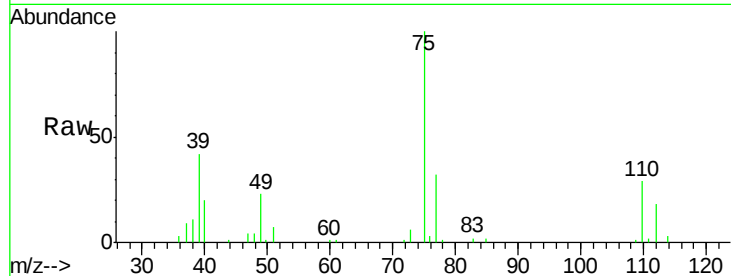
#53
t-1,3-Dichloropropene
Concen: 81.006 ug/l
RT: 10.90 min Scan# 963
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion: 75 Resp: 87418
Ion Ratio Lower Upper
75 100
77 32.2 25.8 38.6

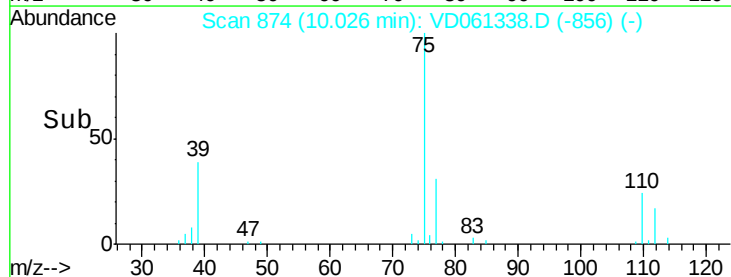
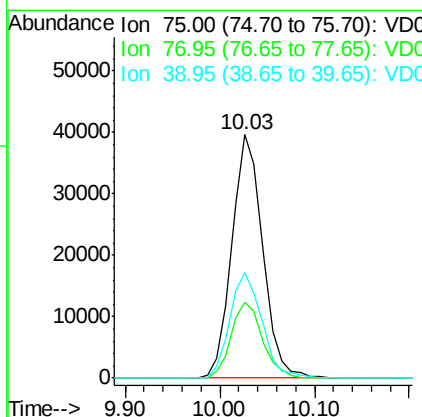
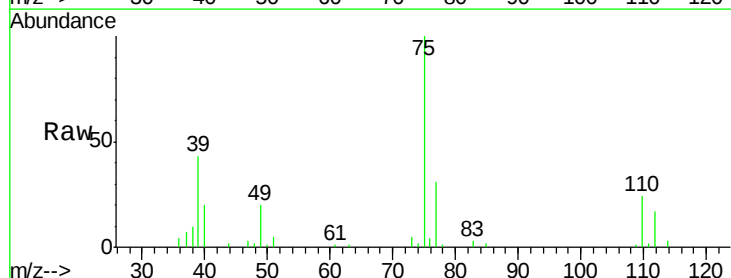
Manual Integrations
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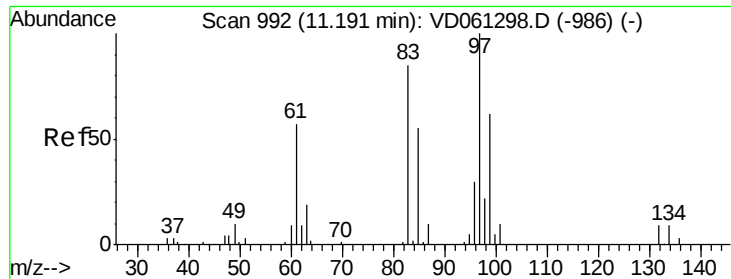
MMDadoda
3/27/2019 12:02:26 PM



#54
cis-1,3-Dichloropropene
Concen: 67.603 ug/l
RT: 10.03 min Scan# 874
Delta R.T. -0.02 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion: 75 Resp: 89085
Ion Ratio Lower Upper
75 100
77 31.1 24.9 37.3
39 43.0 36.0 54.0





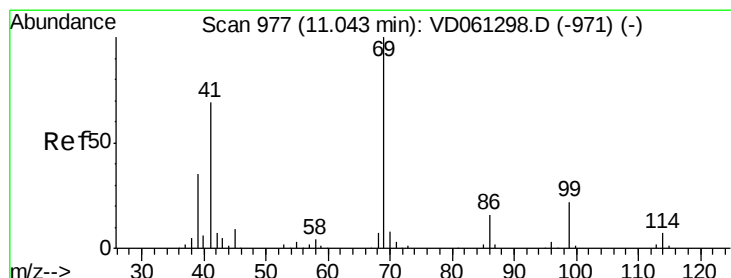
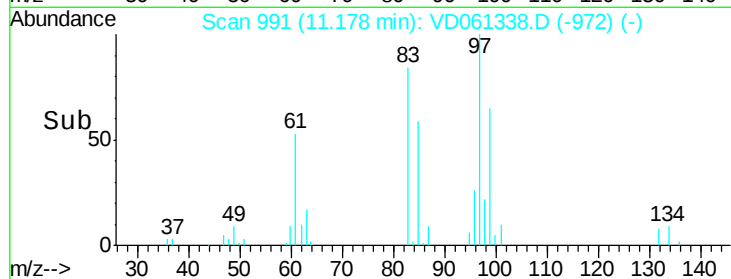
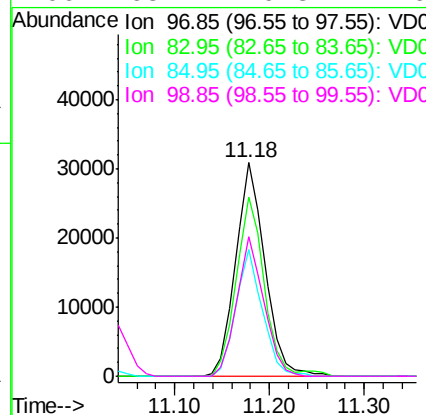
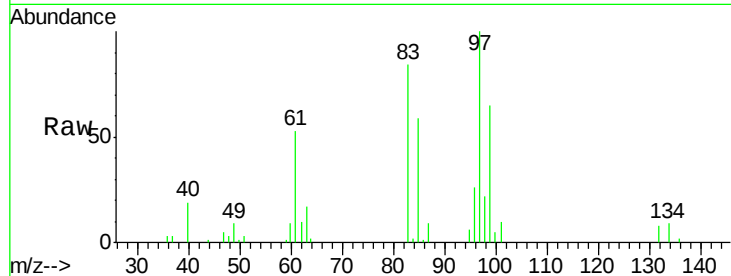
#55
1,1,2-Trichloroethane
Concen: 103.685 ug/l
RT: 11.18 min Scan# 991
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		65959		
83	83.6	67.7	101.5		
85	59.2	43.8	65.8		
99	65.1	49.8	74.6		

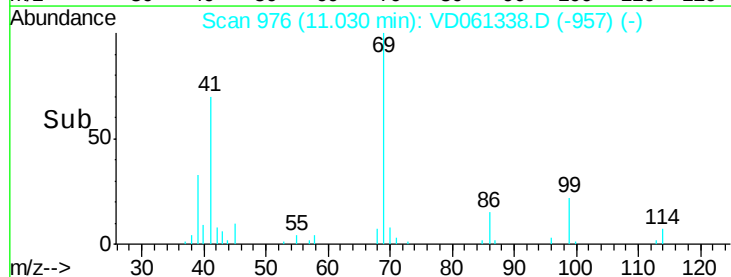
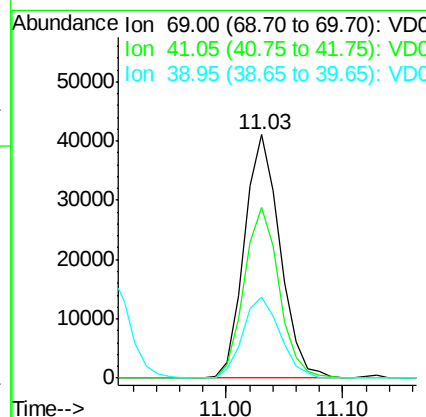
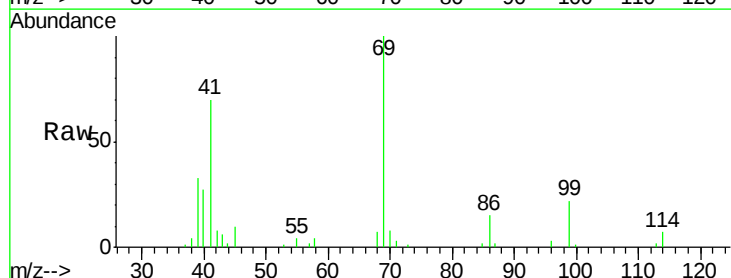
Manual Integrations
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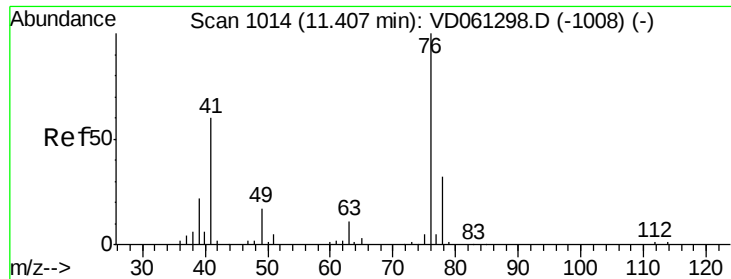
MMDadoda
3/27/2019 12:02:26 PM



#56
Ethyl methacrylate
Concen: 127.958 ug/l
RT: 11.03 min Scan# 976
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		86861		
41	70.1	54.9	82.3		
39	33.4	28.5	42.7		





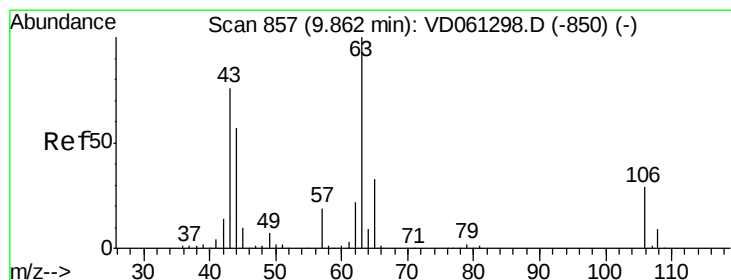
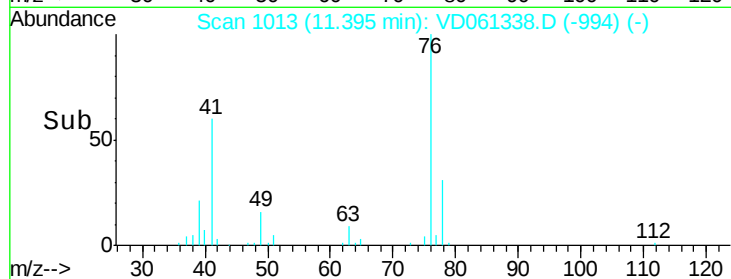
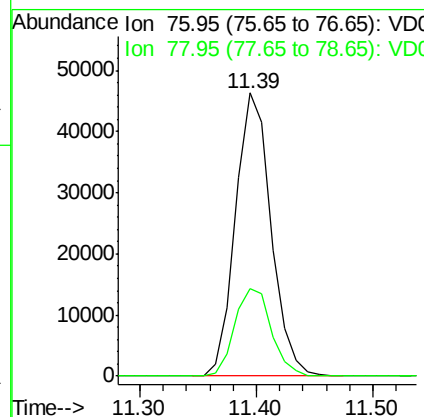
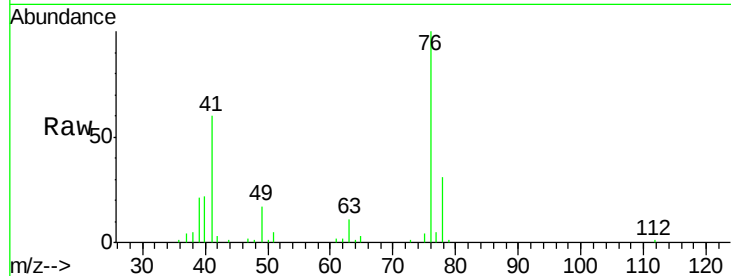
#57
 1,3-Dichloropropane
 Concen: 101.823 ug/l
 RT: 11.39 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Tot Ion: 76 Resp: 97826
 Ion Ratio Lower Upper
 76 100
 78 31.0 25.7 38.5

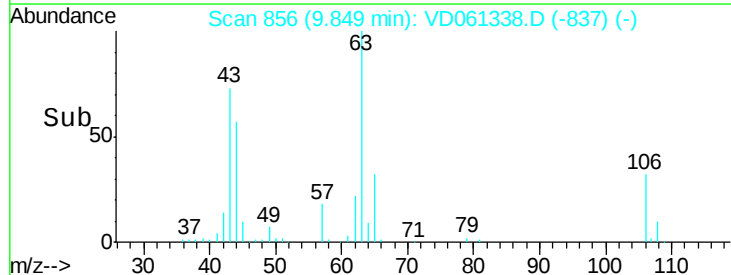
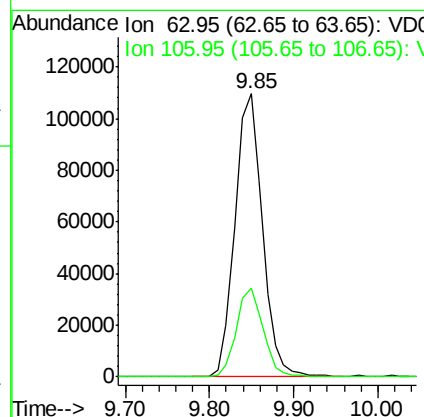
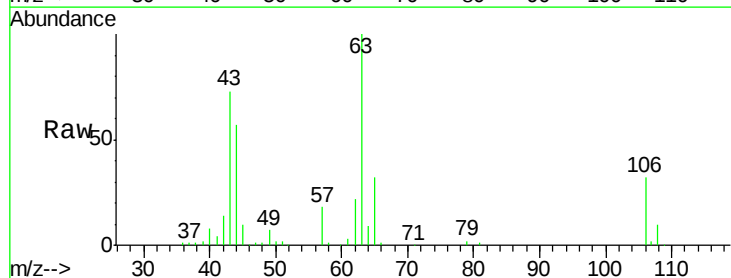
Manual Integrations
 APPROVED

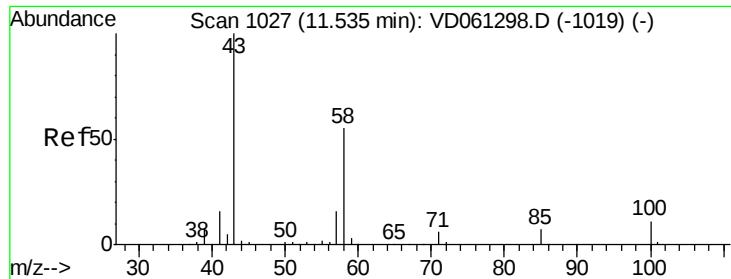
MMDadoda
 3/27/2019 12:02:26 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 705.878 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion: 63 Resp: 249281
 Ion Ratio Lower Upper
 63 100
 106 31.5 23.4 35.0





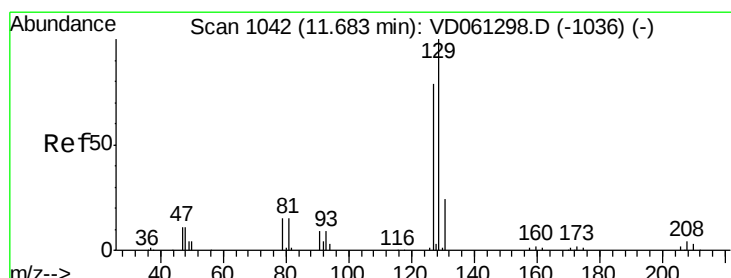
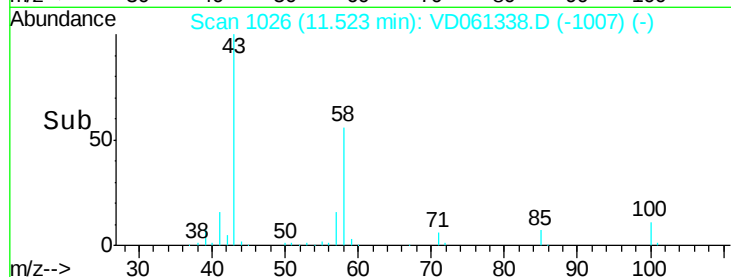
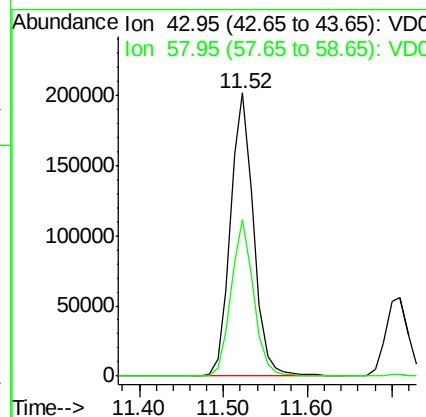
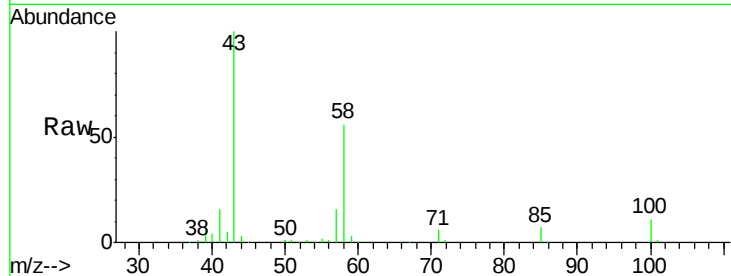
#59
2-Hexanone
Concen: 1162.048 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion: 43 Resp: 381529
Ion Ratio Lower Upper
43 100
58 55.5 27.4 82.0

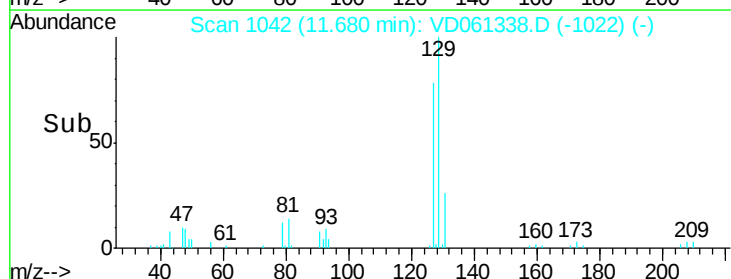
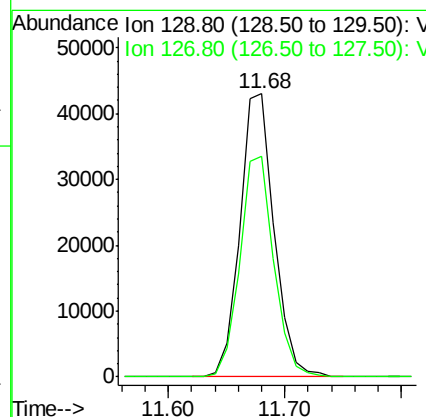
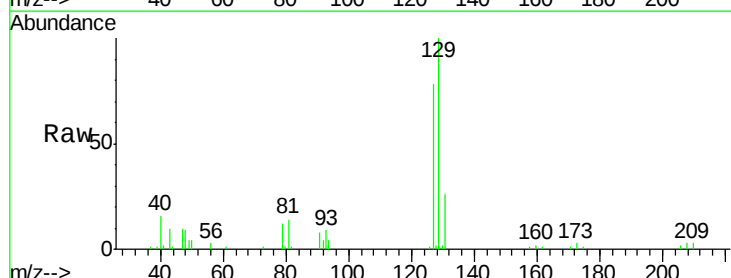
Manual Integrations
APPROVED

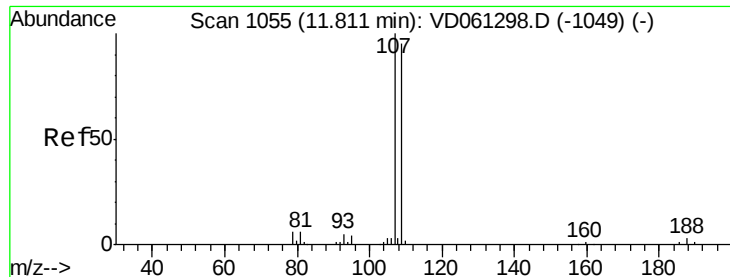
MMDadoda
3/27/2019 12:02:26 PM



#60
Dibromochloromethane
Concen: 87.304 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion: 129 Resp: 86986
Ion Ratio Lower Upper
129 100
127 78.2 39.6 119.0





#61

1,2-Dibromoethane

Concen: 121.144 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:107 Resp: 90044

Ion Ratio Lower Upper

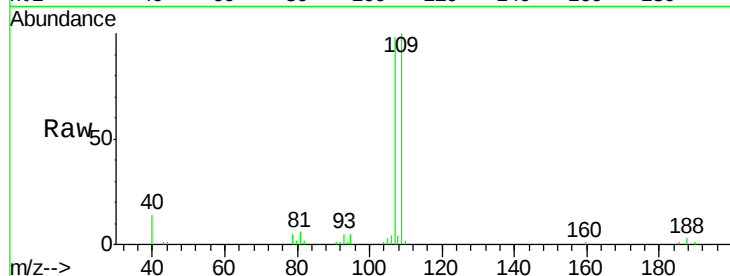
107 100

109 102.0 76.1 114.1

Manual Integrations
APPROVED

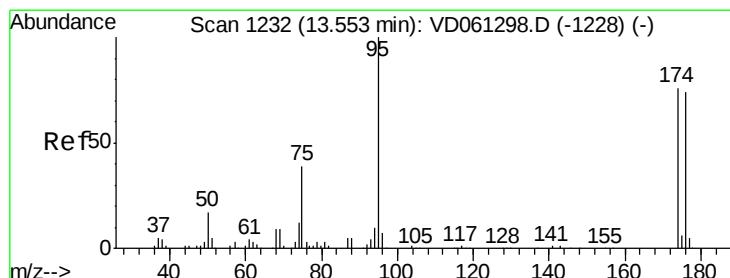
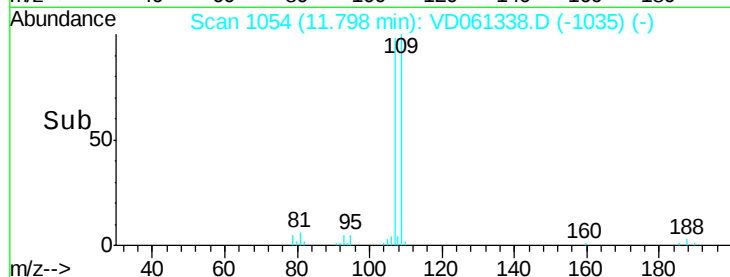
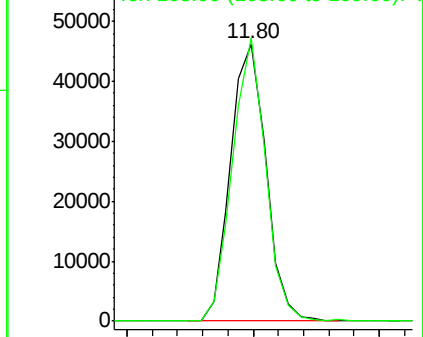
MMDadoda

3/27/2019 12:02:26 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 121.144 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

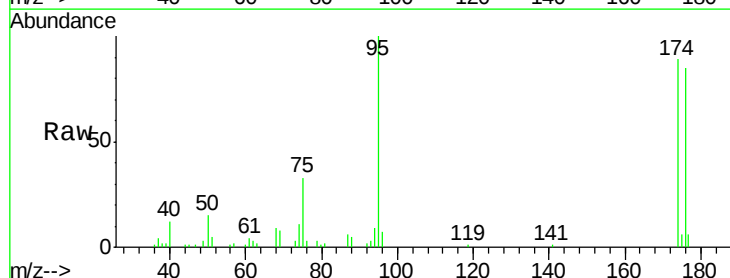
Tgt Ion: 95 Resp: 79956

Ion Ratio Lower Upper

95 100

174 89.0 0.0 151.8

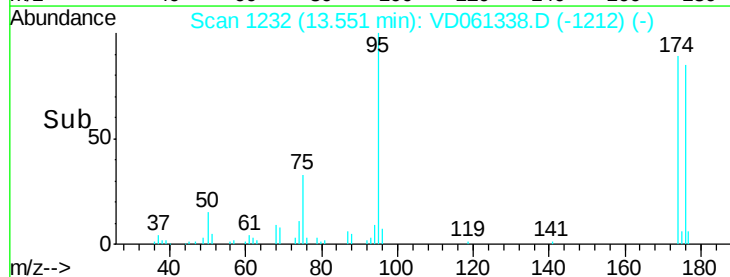
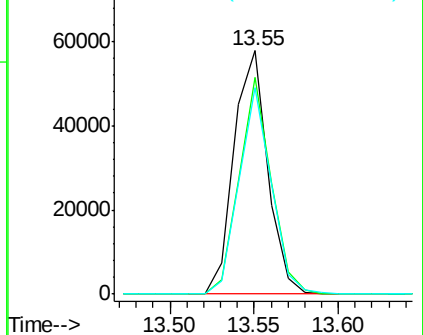
176 84.9 0.0 148.0

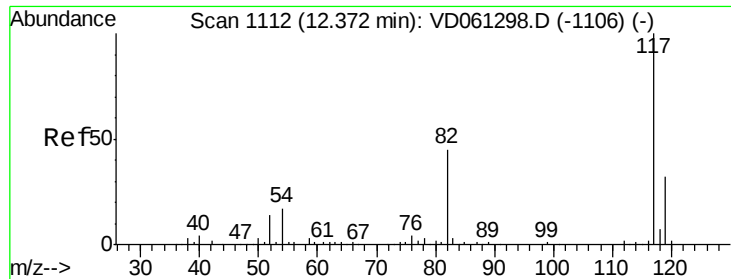


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





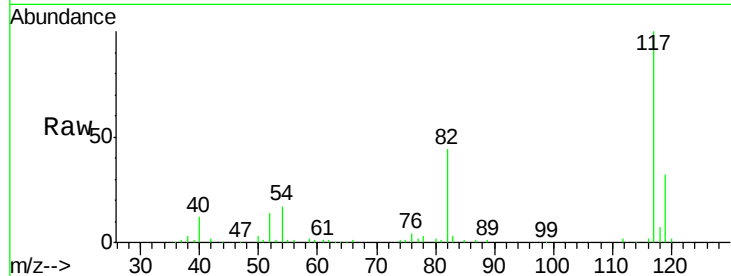
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
117	100	159808		
82	43.7		35.7	53.5
119	31.6		25.9	38.9

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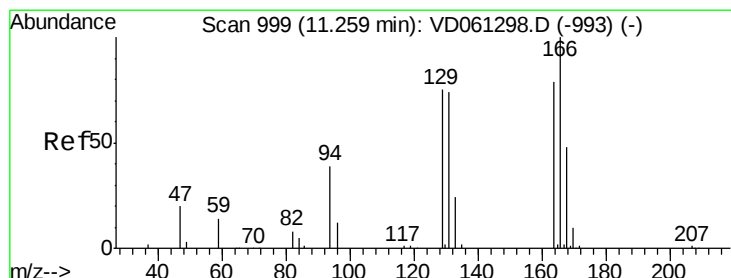
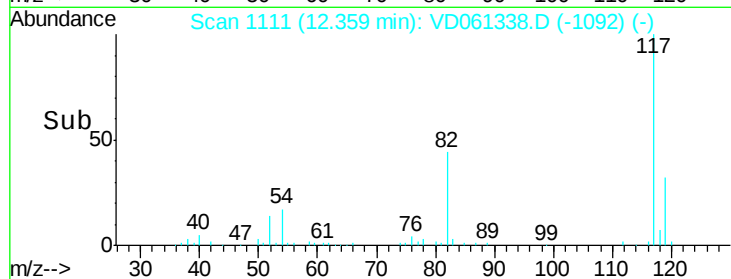
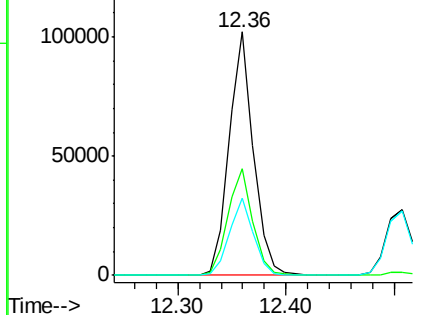


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 45.834 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	50458		
166	129.3		101.6	152.4
129	97.8		75.9	113.9
131	89.0		75.3	112.9

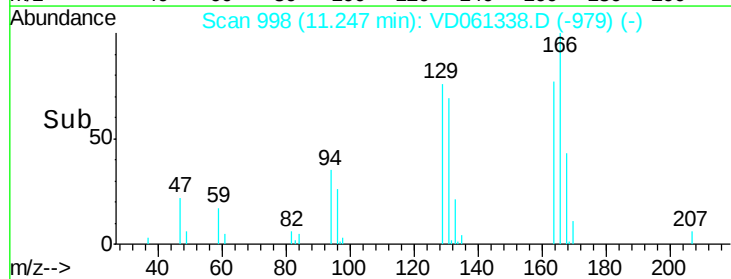
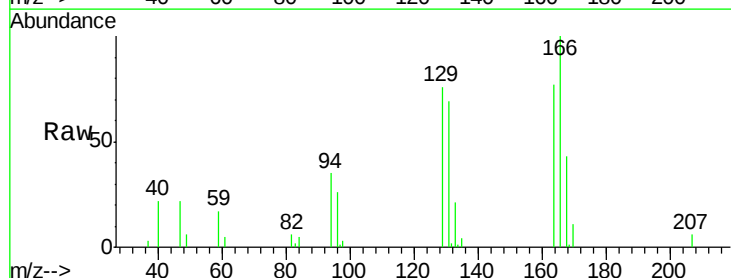
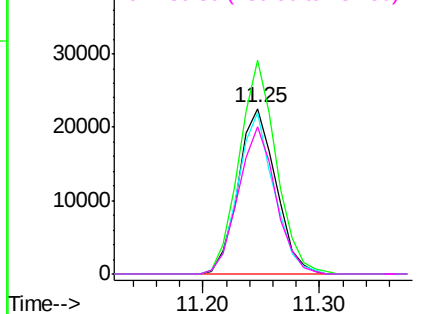
Abundance

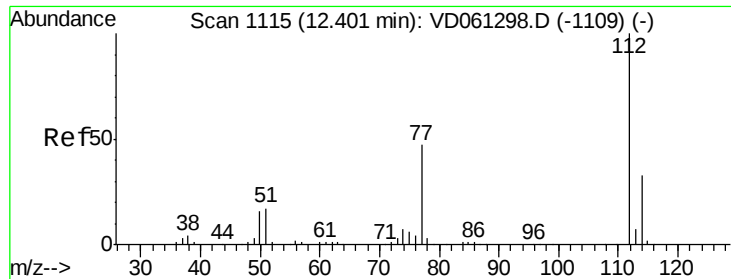
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





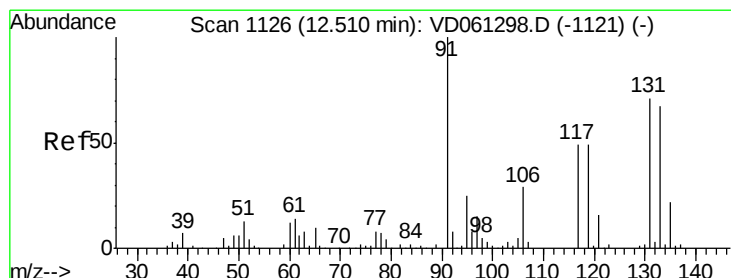
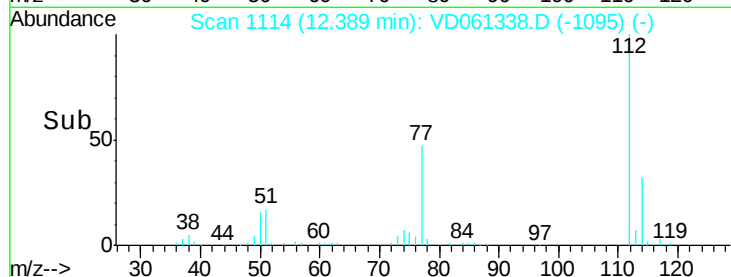
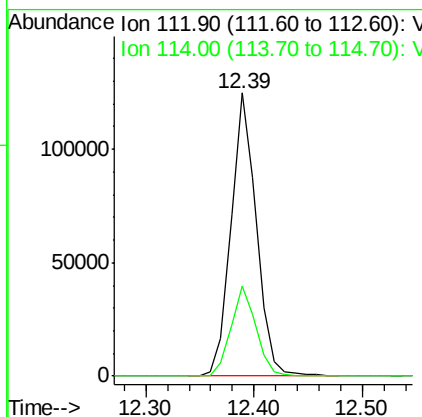
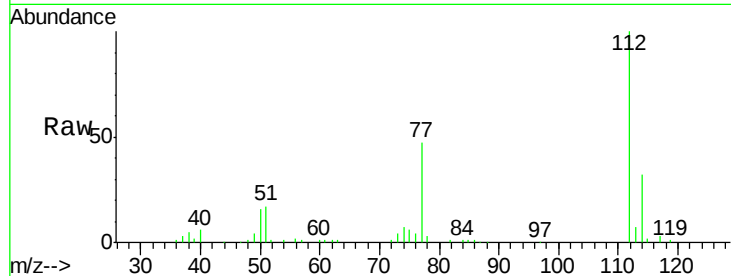
#65
Chlorobenzene
Concen: 68.772 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion:112 Resp: 202433
Ion Ratio Lower Upper
112 100
114 31.8 26.5 39.7

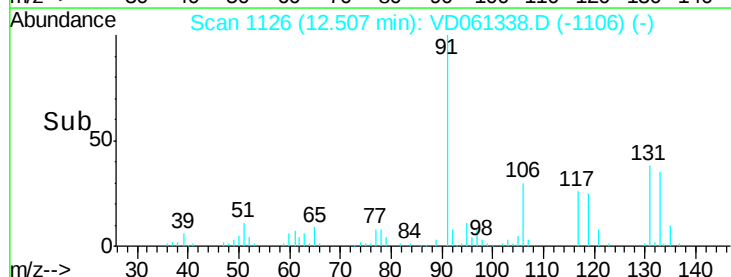
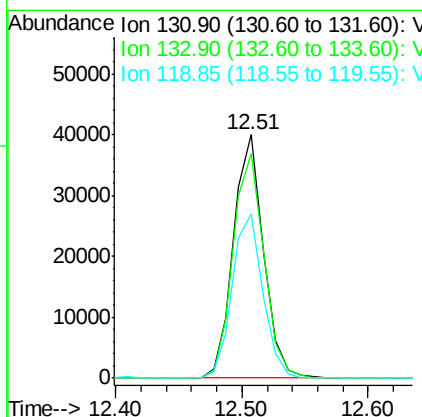
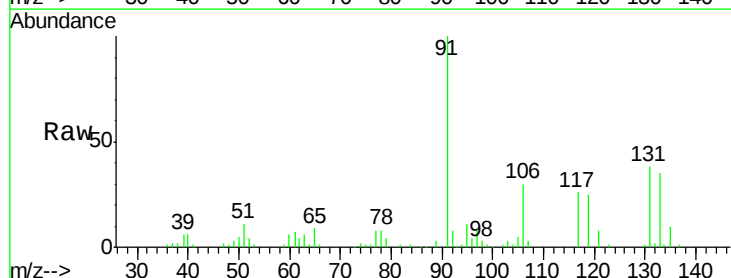
Manual Integrations
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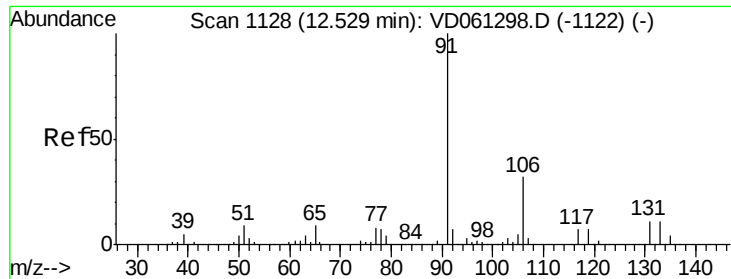
MMDadoda
3/27/2019 12:02:26 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 57.667 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion:131 Resp: 65811
Ion Ratio Lower Upper
131 100
133 92.1 47.0 141.2
119 67.3 34.8 104.5





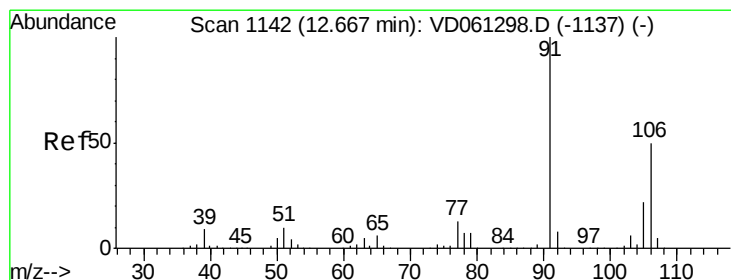
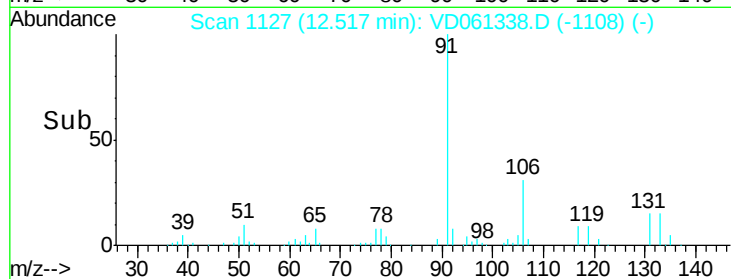
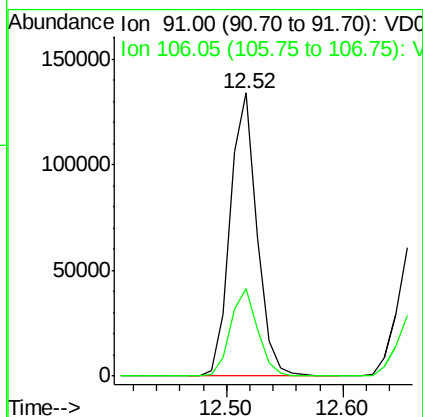
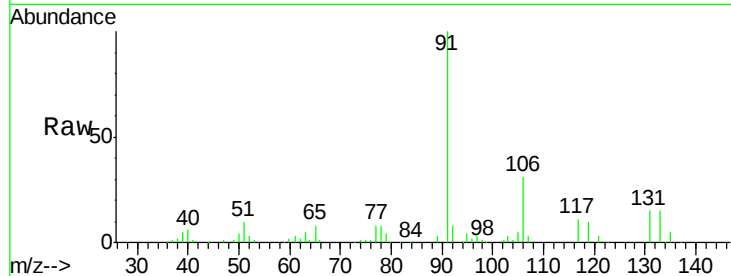
#67
Ethyl Benzene
Concen: 47.352 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion: 91 Resp: 213307
Ion Ratio Lower Upper
91 100
106 31.1 25.8 38.8

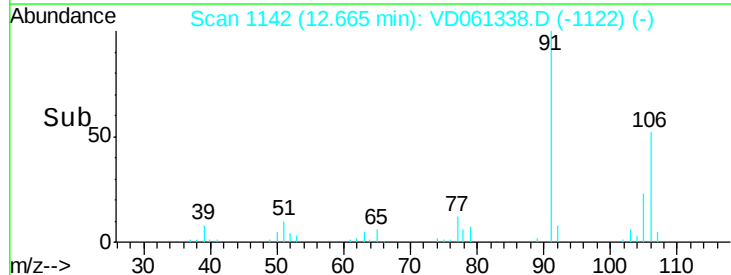
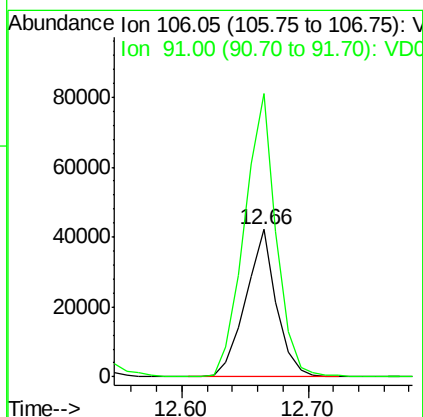
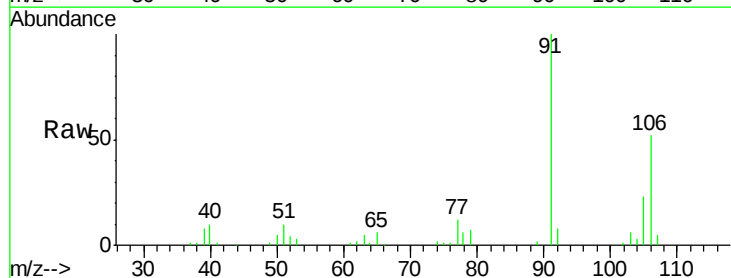
Manual Integrations
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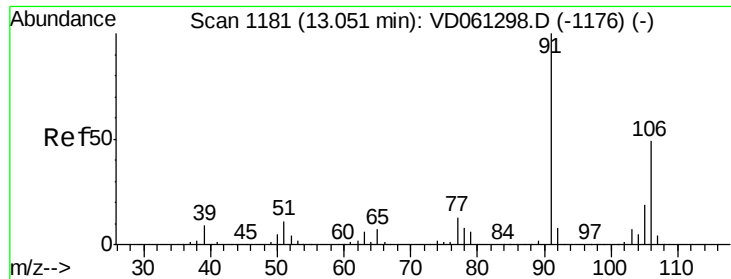
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3/27/2019 12:02:26 PM



#68
m/p-Xylenes
Concen: 40.437 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion: 106 Resp: 71107
Ion Ratio Lower Upper
106 100
91 192.5 159.2 238.8





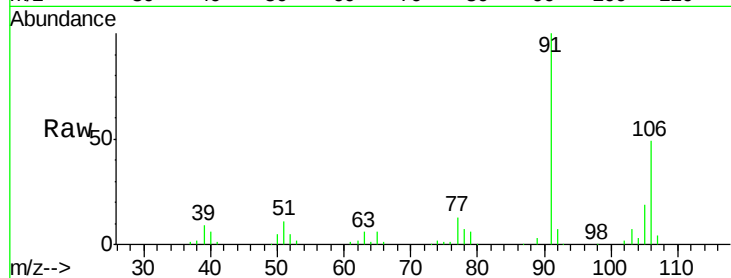
#69
o-Xylene
Concen: 50.993 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

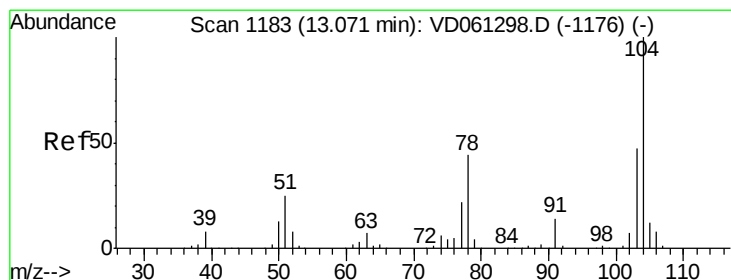
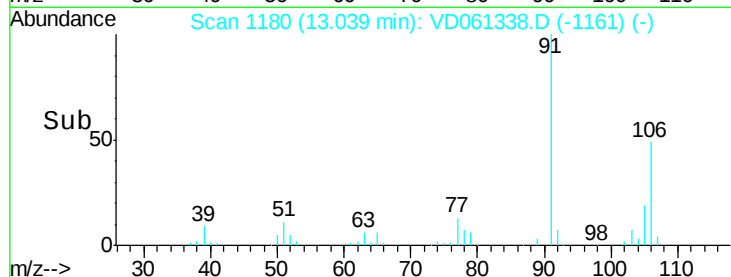
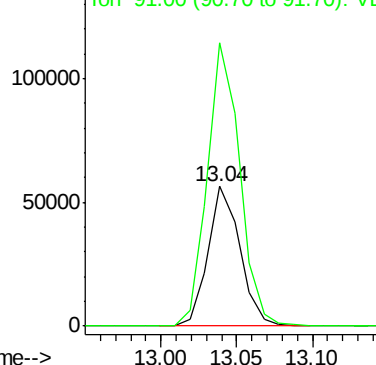
Tot Ion:106 Resp: 83163
Ion Ratio Lower Upper
106 100
91 202.5 102.5 307.5

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3/27/2019 12:02:26 PM

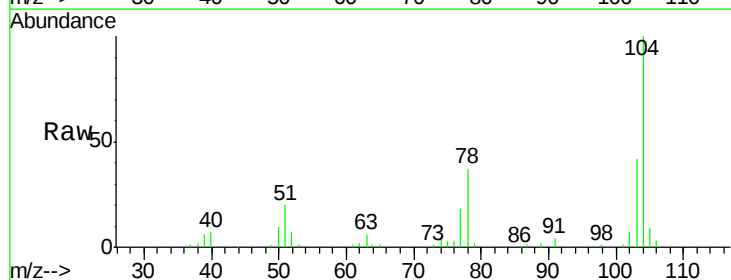


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

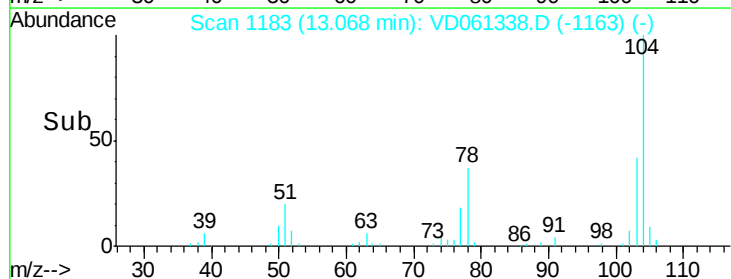
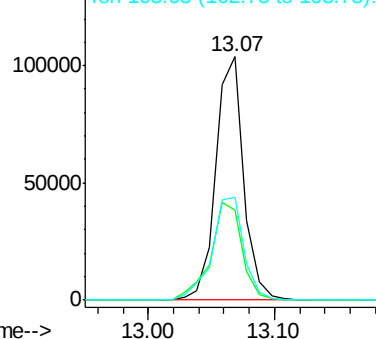


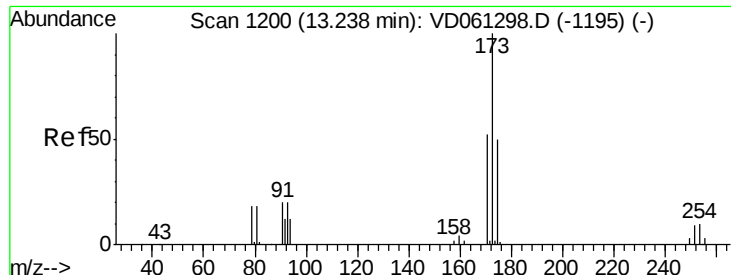
#70
Styrene
Concen: 57.022 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion:104 Resp: 157827
Ion Ratio Lower Upper
104 100
78 36.8 35.1 52.7
103 42.4 37.5 56.3



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





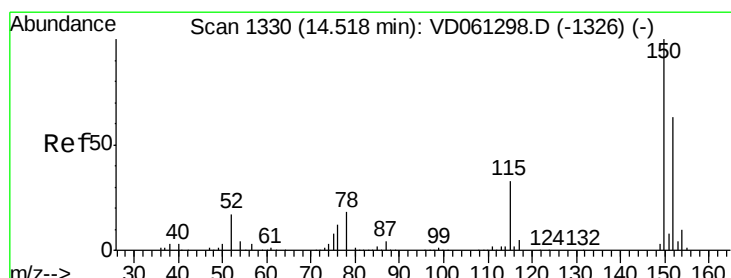
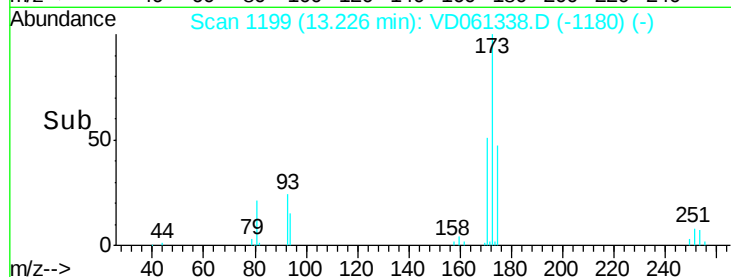
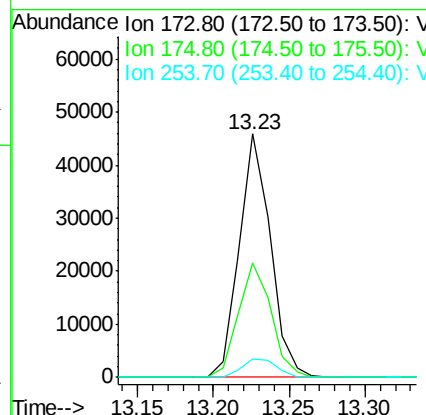
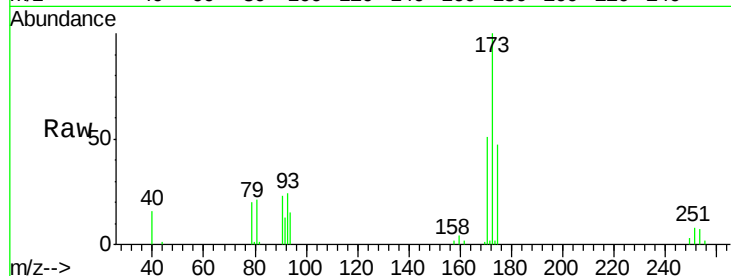
#71
Bromoform
Concen: 93.543 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.7	24.9	74.7
254	7.4	7.8	11.6

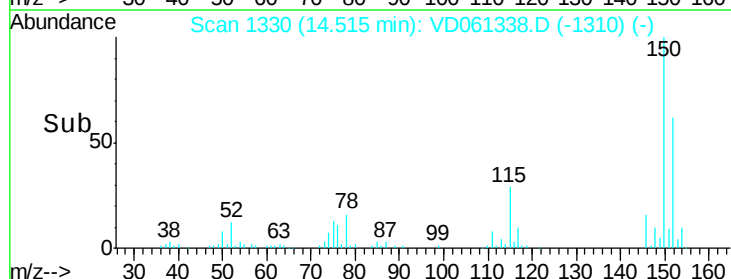
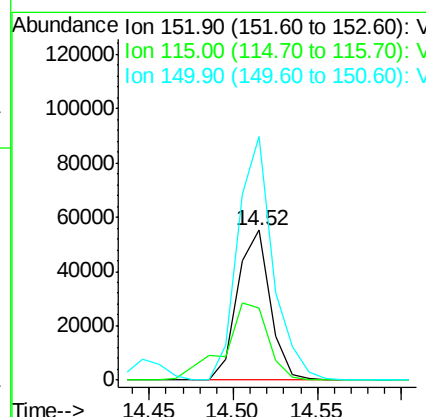
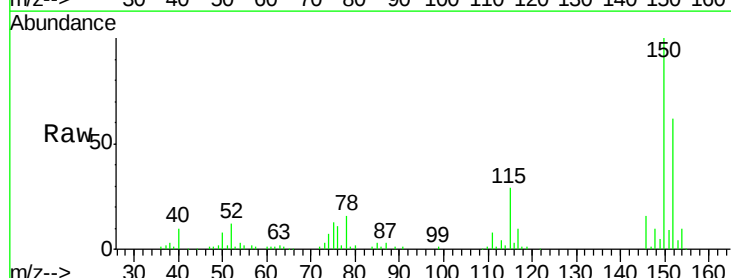
Manual Integrations
APPROVED

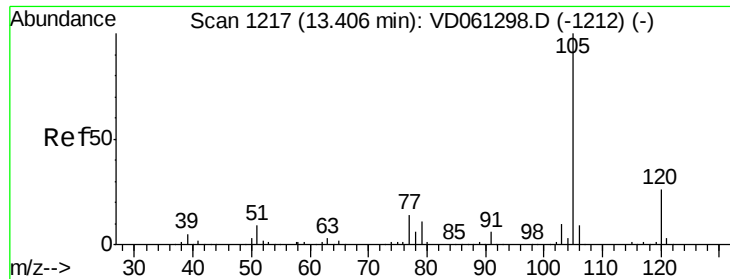
MMDadoda
3/27/2019 12:02:26 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	47.7	29.2	87.6
150	162.6	0.0	319.6





#73

Isopropylbenzene

Concen: 39.663 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 105 Resp: 191083

Ion Ratio Lower Upper

105 100

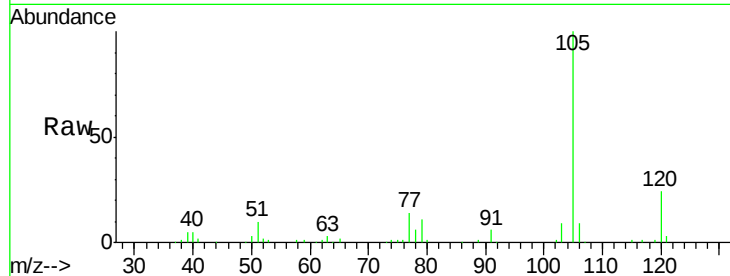
120 24.1 13.1 39.1

Manual Integrations

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.39

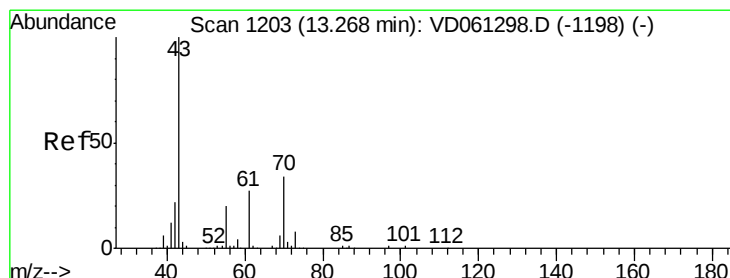
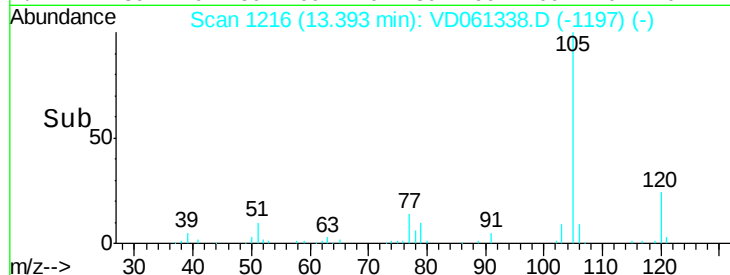
150000

100000

50000

0

Time--> 13.30 13.35 13.40 13.45



#74

N-ethyl acetate

Concen: 67.155 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Tgt Ion: 43 Resp: 84645

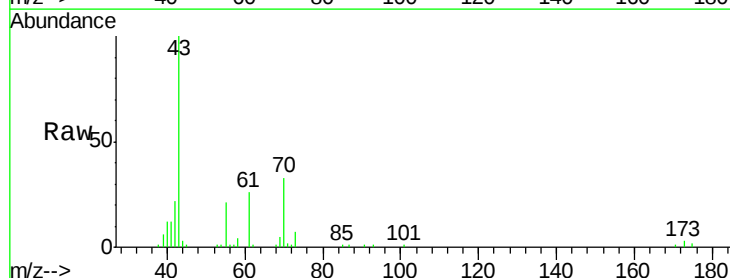
Ion Ratio Lower Upper

43 100

70 32.5 27.5 41.3

55 21.2 15.7 23.5

61 25.6 21.8 32.6



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

13.26

80000

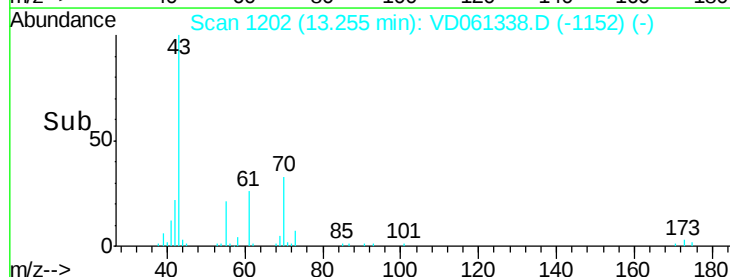
60000

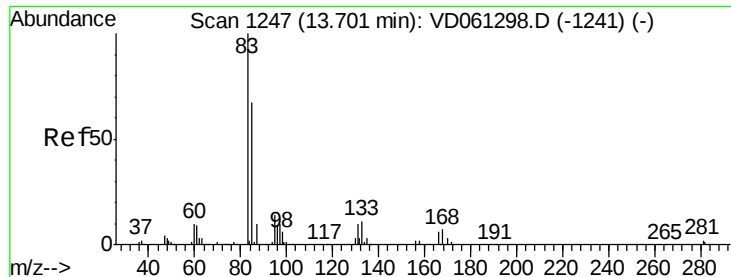
40000

20000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 113.295 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

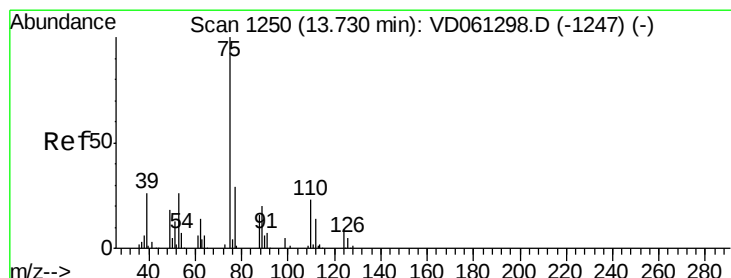
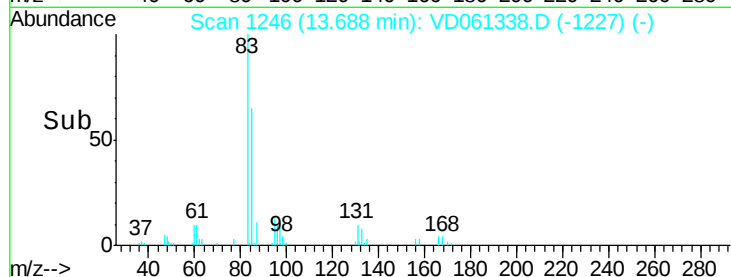
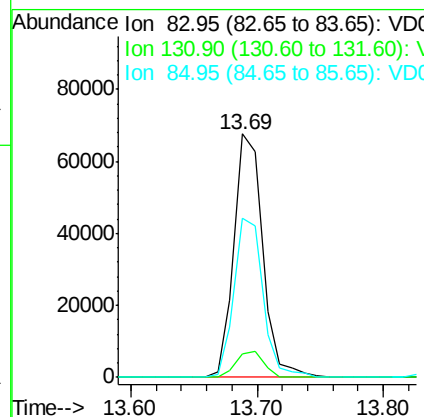
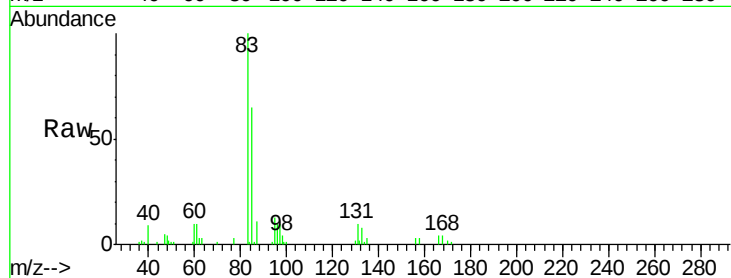
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion:	83	Resp:	105846
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.0	15.0
85	65.2	33.4	100.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 124.299 ug/l

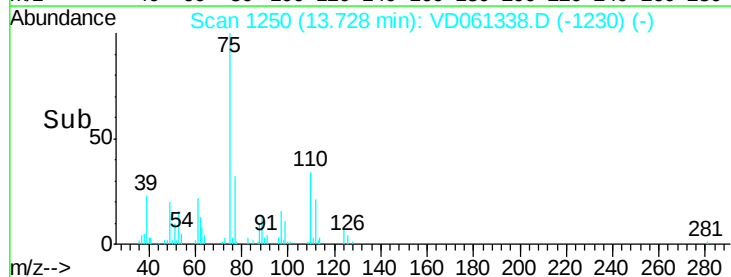
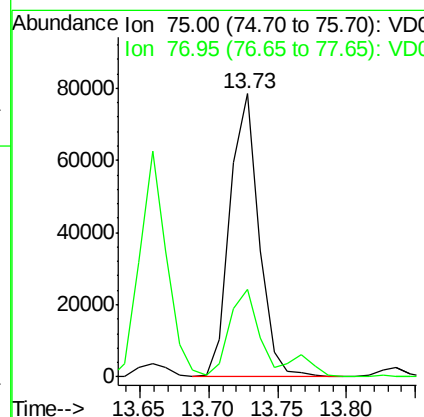
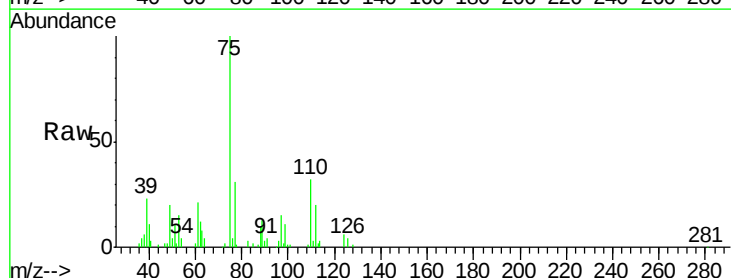
RT: 13.73 min Scan# 1250

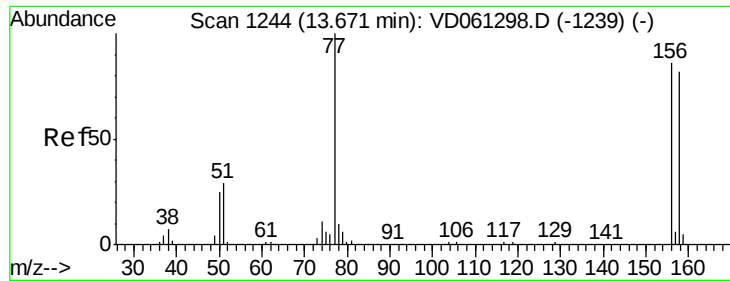
Delta R.T. -0.00 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Tgt Ion:	75	Resp:	114498
Ion Ratio	Lower	Upper	
75	100		
77	31.1	15.8	47.4





#77

Bromobenzene

Concen: 52.356 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

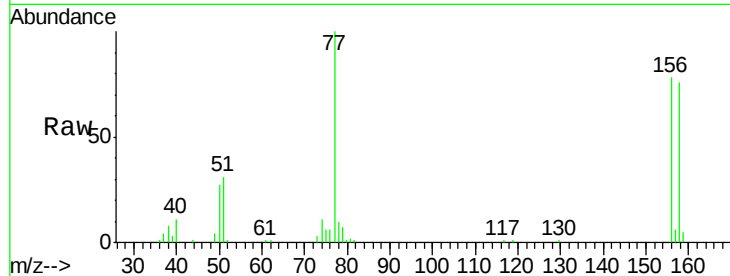
ClientSampleId :

WP022SB431-190320-(21-23)MS

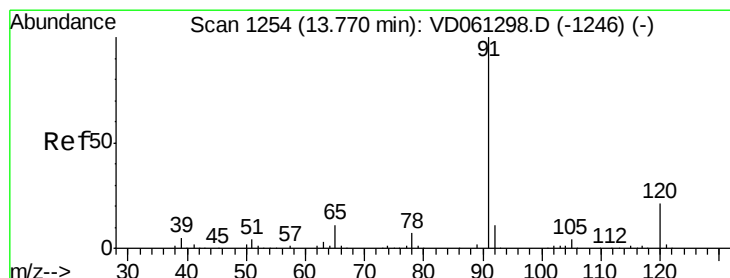
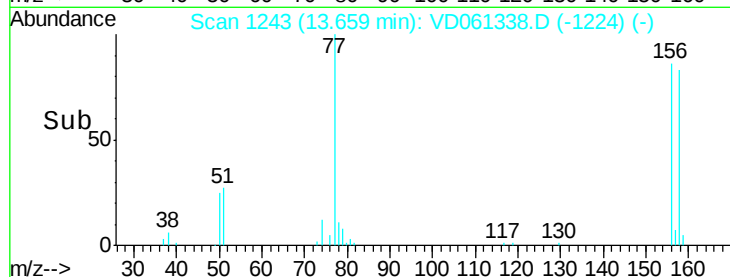
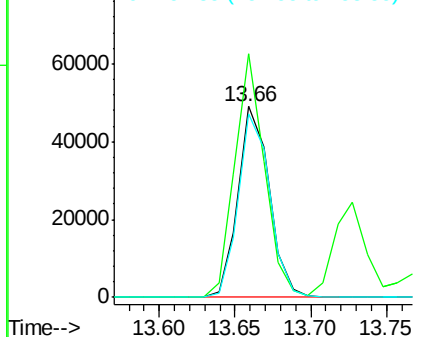
Tot Ion:	156	Resp:	70456
Ion Ratio	Lower	Upper	
156	100		
77	127.7	58.4	175.1
158	96.4	48.1	144.3

Manual Integrations
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Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): V
Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 40.189 ug/l

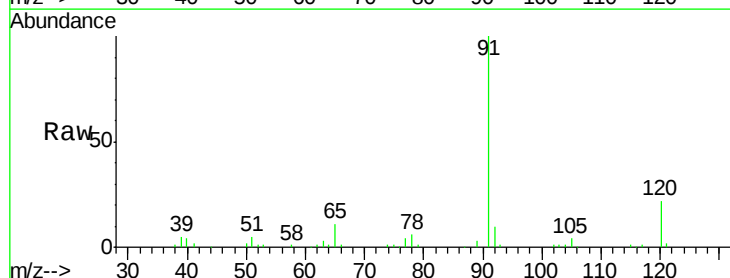
RT: 13.77 min Scan# 1254

Delta R.T. -0.00 min

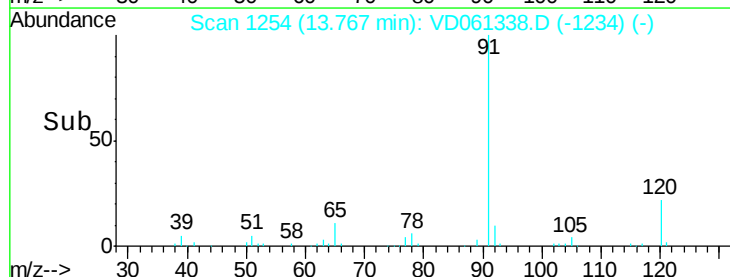
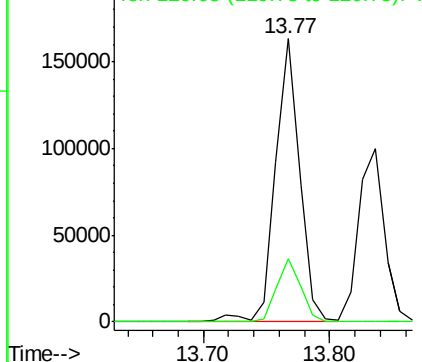
Lab File: VD061338.D

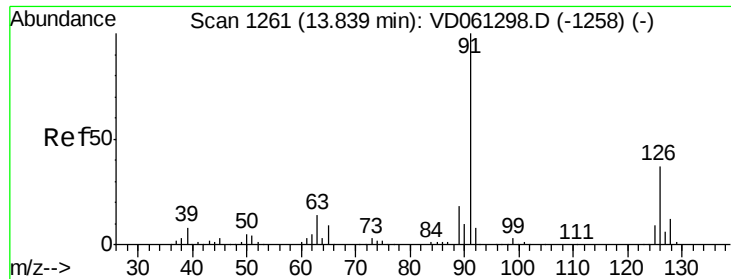
Acq: 26 Mar 2019 16:13

Tgt Ion:	91	Resp:	218440
Ion Ratio	Lower	Upper	
91	100		
120	22.5	10.7	32.1



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 45.213 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD061338.D

Acq: 26 Mar 2019 16:13

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tot Ion: 91 Resp: 143084

Ion Ratio Lower Upper

91 100

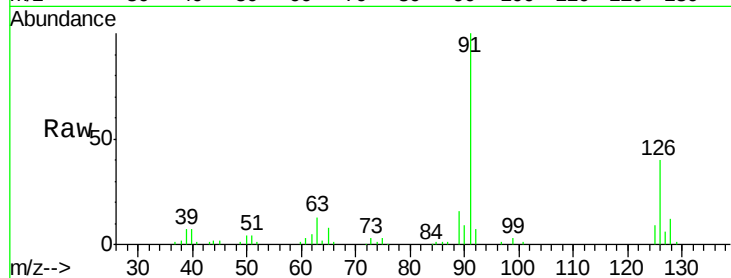
126 40.3 18.4 55.4

Manual Integrations

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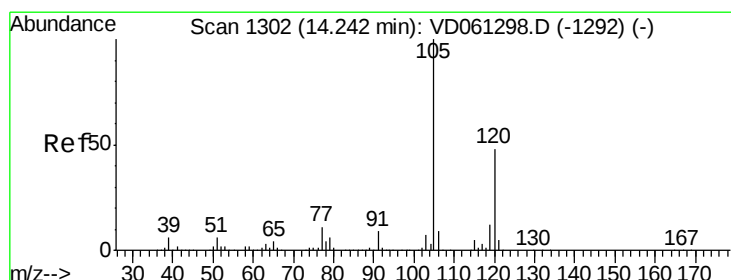
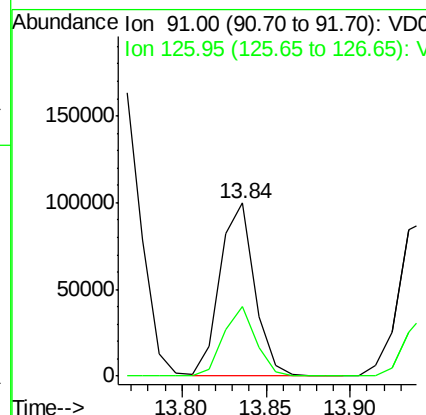
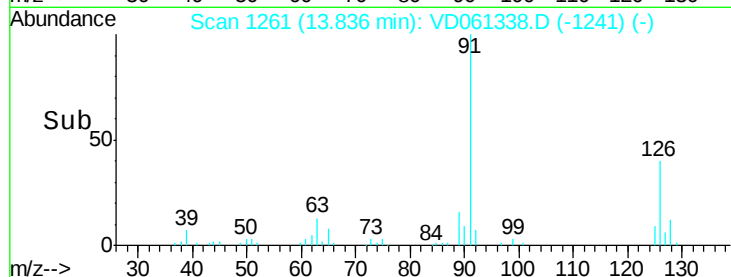
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Abundance Ion 91.00 (90.70 to 91.70): VD061298.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD061298.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 9.345 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD061338.D

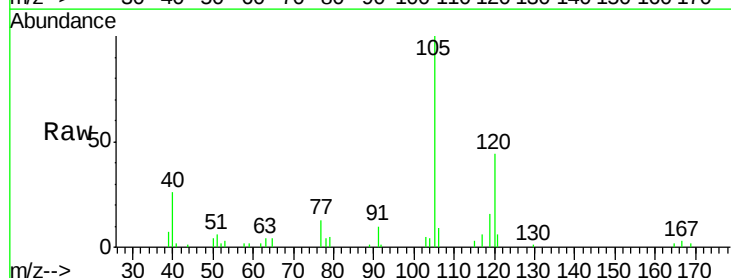
Acq: 26 Mar 2019 16:13

Tgt Ion: 105 Resp: 35518

Ion Ratio Lower Upper

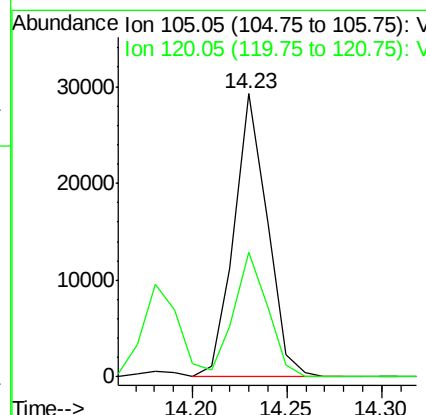
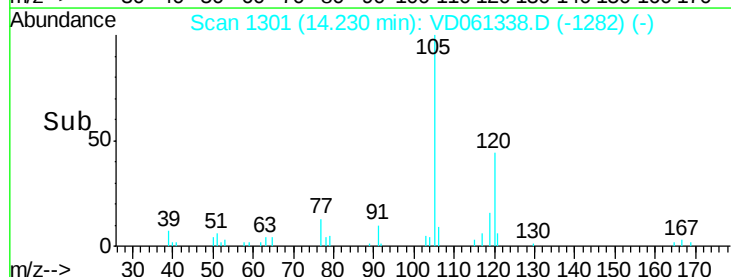
105 100

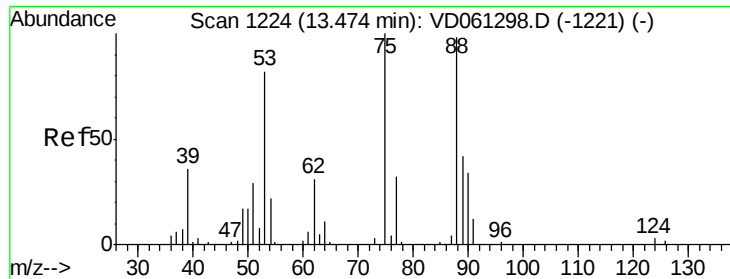
120 44.0 23.8 71.4



Abundance Ion 105.05 (104.75 to 105.75): VD061298.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD061298.D (-1292) (-)





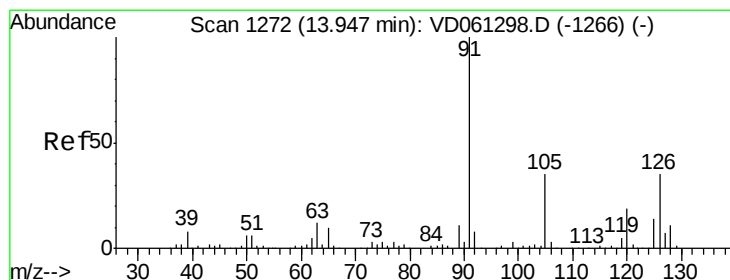
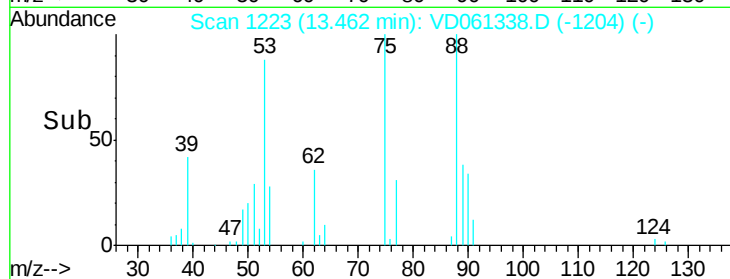
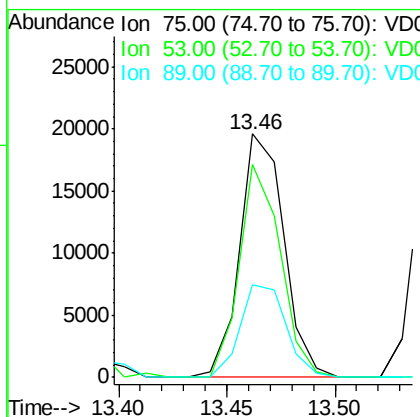
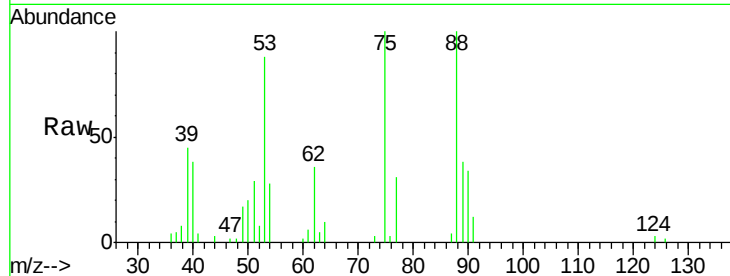
#81
trans-1,4-Dichloro-2-butene
Concen: 95.602 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.6	65.3	97.9
89	37.9	33.8	50.6

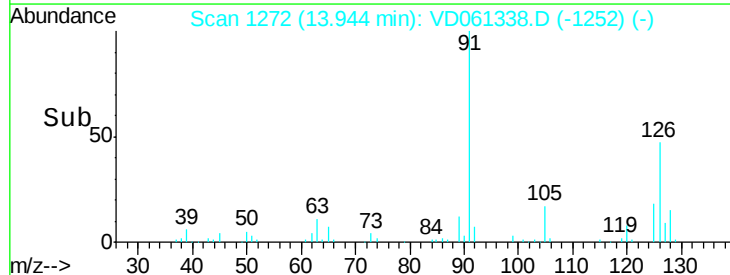
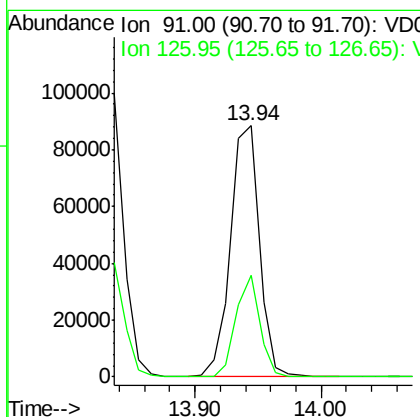
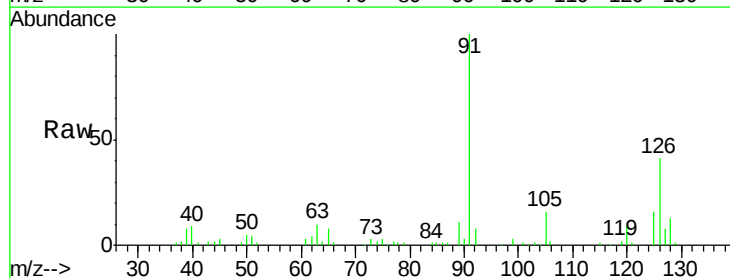
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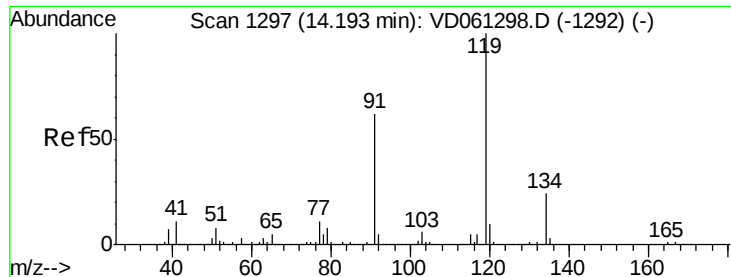
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#82
4-Chlorotoluene
Concen: 40.395 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	40.6	17.7	53.1





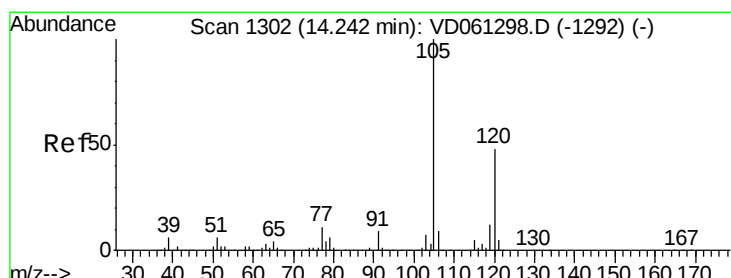
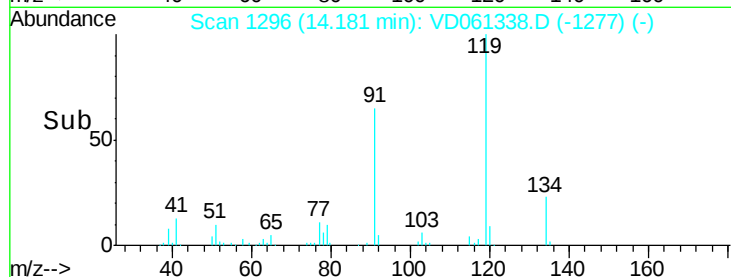
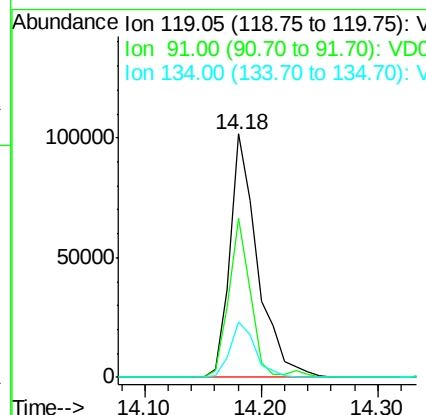
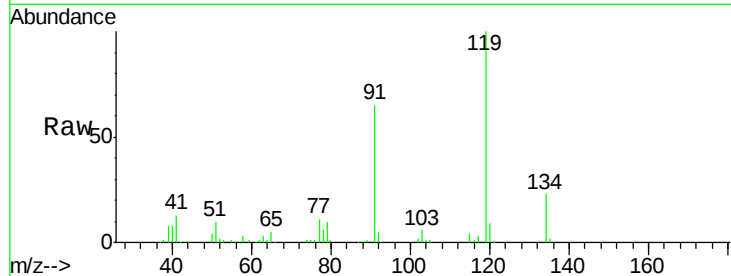
#83
tert-Butylbenzene
Concen: 38.501 ug/l
RT: 14.18 min Scan# 1296
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	167070		
91	65.2	31.1	93.5	
134	23.0	11.9	35.7	

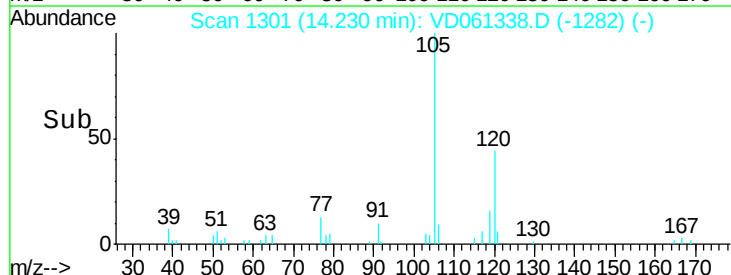
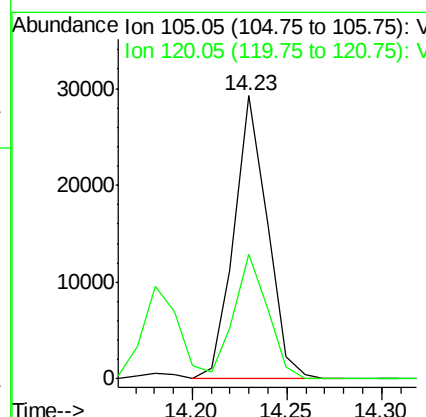
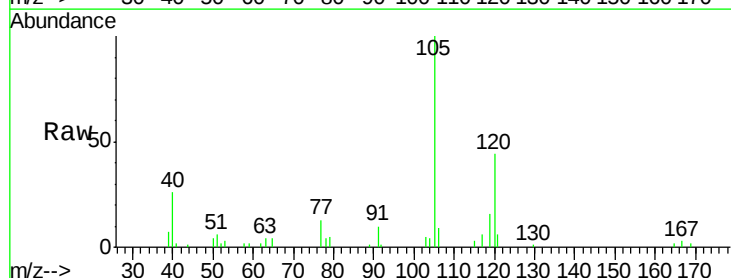
Manual Integrations
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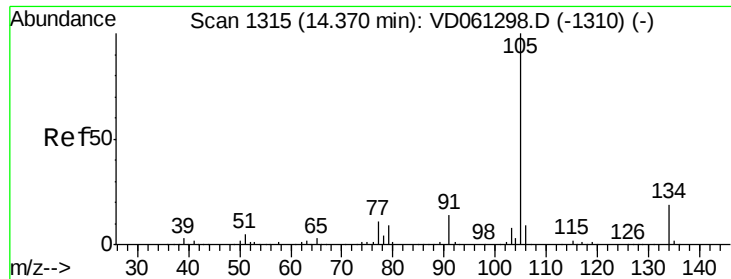
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3/27/2019 12:02:26 PM



#84
1,2,4-Trimethylbenzene
Concen: 9.345 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	35518		
120	44.0	23.8	71.4	





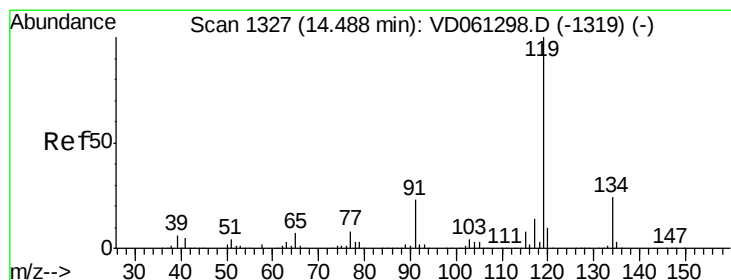
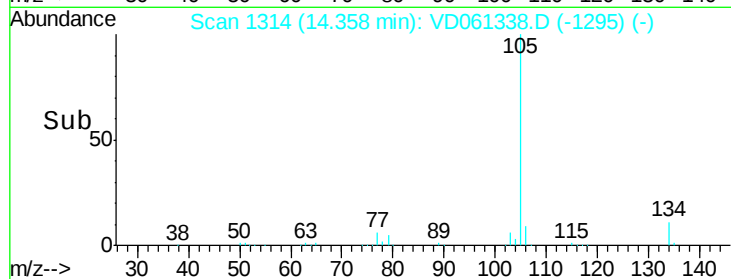
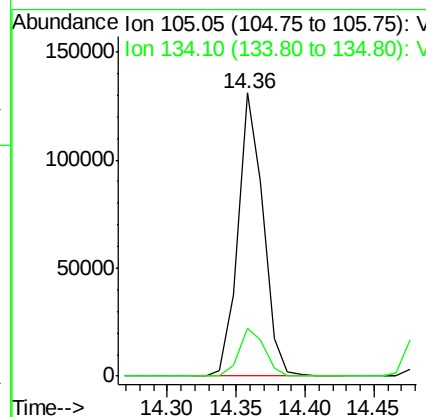
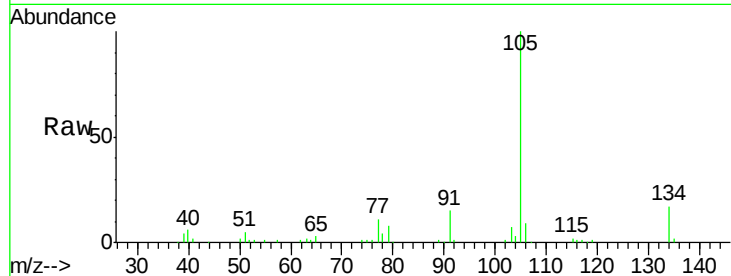
#85
 sec-Butylbenzene
 Concen: 34.464 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
105	100	166554		
134	16.8	9.5	28.5	

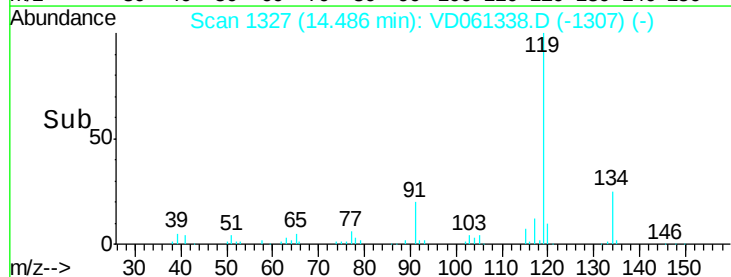
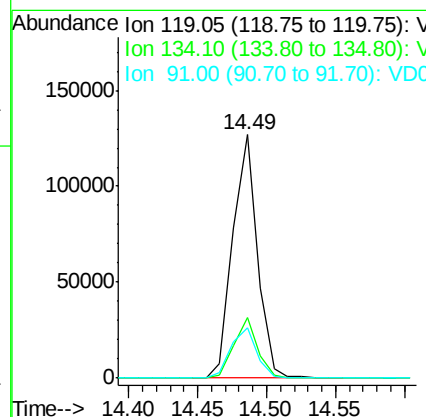
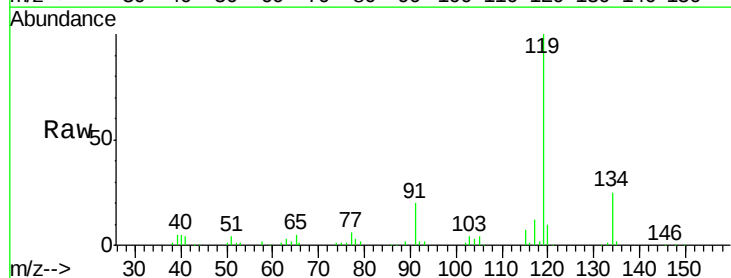
Manual Integrations
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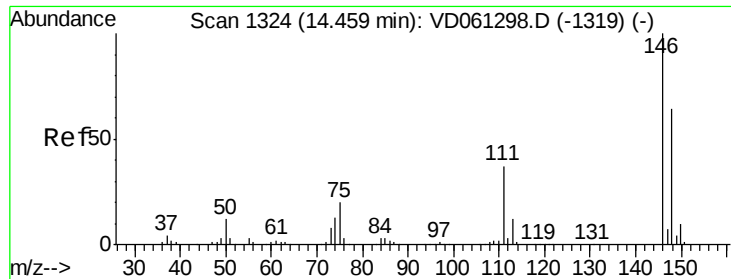
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 3/27/2019 12:02:26 PM



#86
 p-Isopropyltoluene
 Concen: 36.574 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	157688		
134	24.9	12.1	36.3	
91	20.5	11.4	34.2	





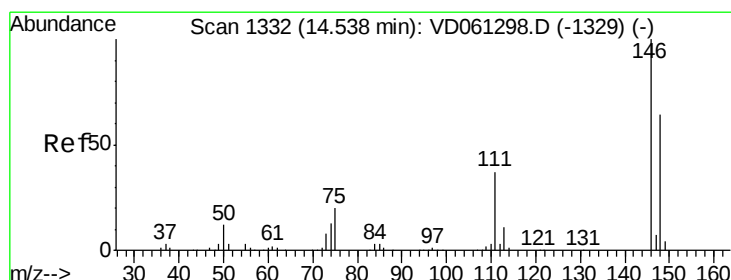
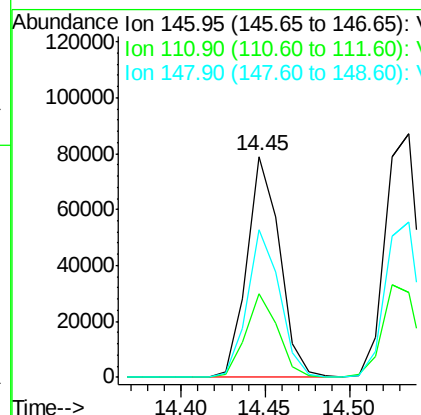
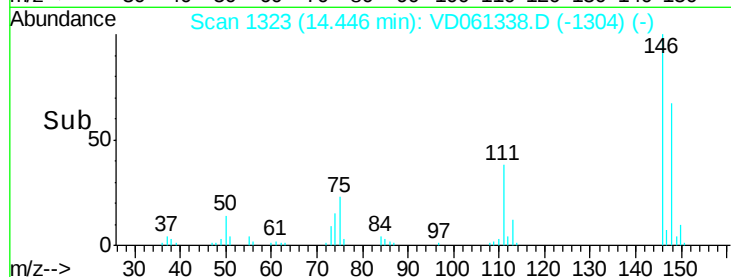
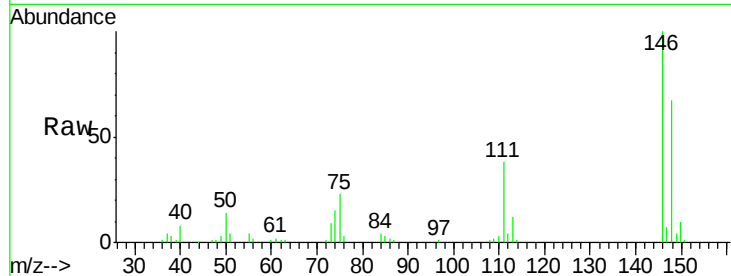
#87
 1,3-Dichlorobenzene
 Concen: 44.841 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.4	55.0
148	67.0	32.0	96.2

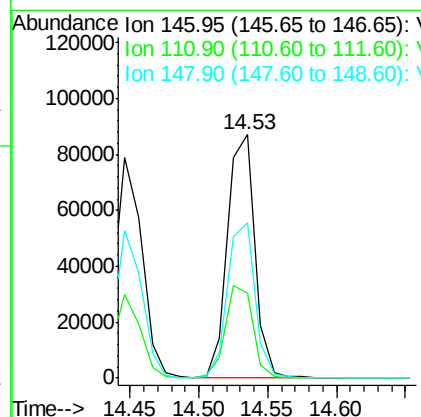
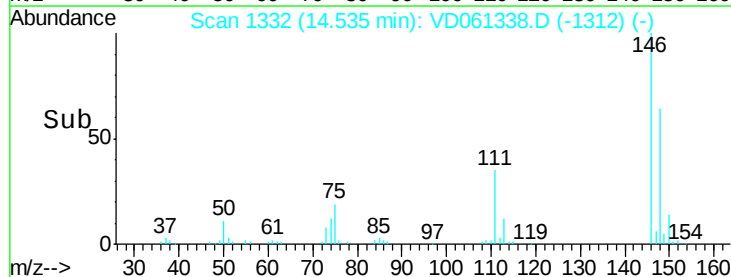
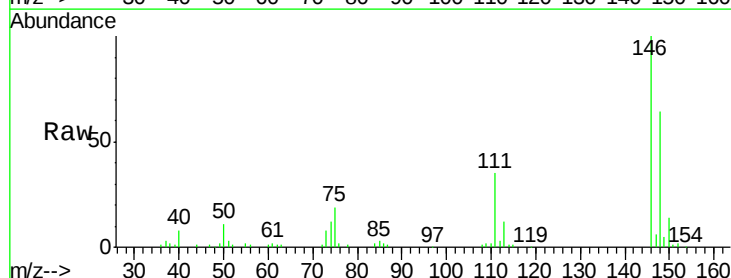
Manual Integrations
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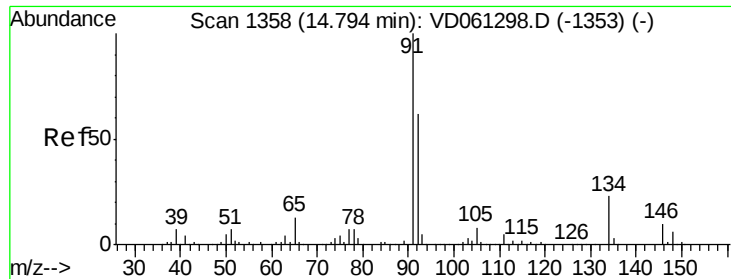
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 3/27/2019 12:02:26 PM



#88
 1,4-Dichlorobenzene
 Concen: 51.988 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.8	18.6	55.6
148	63.5	31.9	95.5





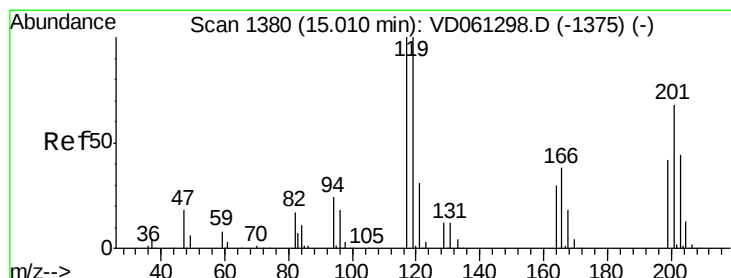
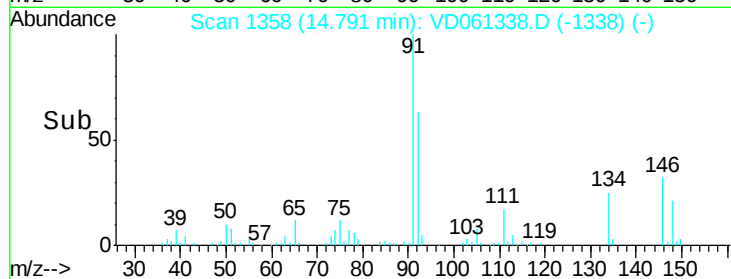
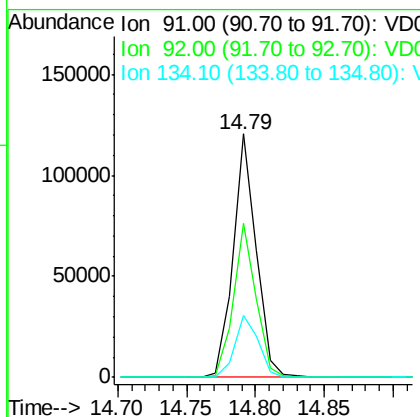
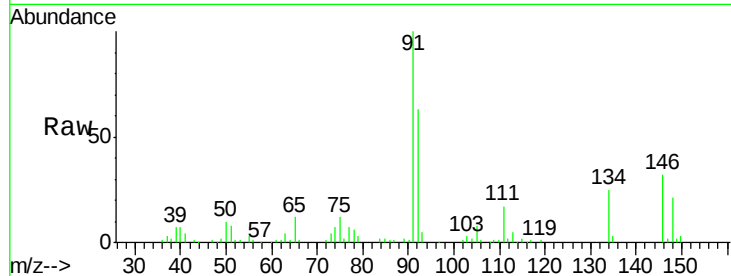
#89
n-Butylbenzene
Concen: 36.566 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.4	30.9	92.7
134	25.4	11.7	35.0

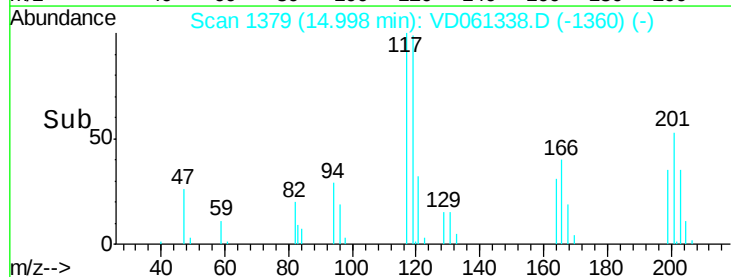
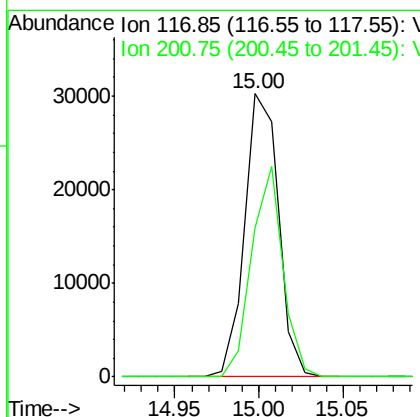
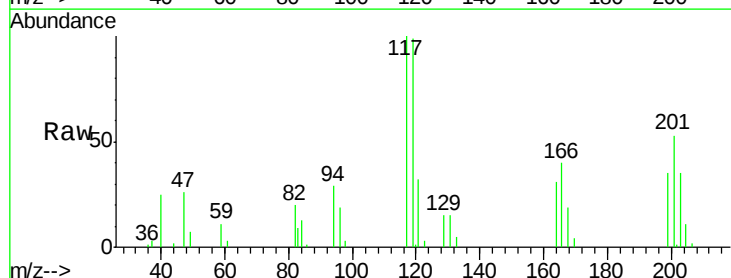
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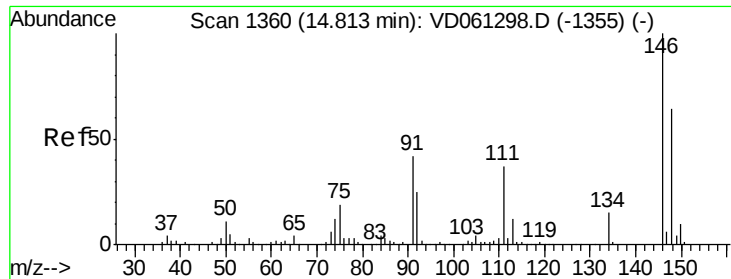
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3/27/2019 12:02:26 PM



#90
Hexachloroethane
Concen: 36.386 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	52.6	34.0	101.8





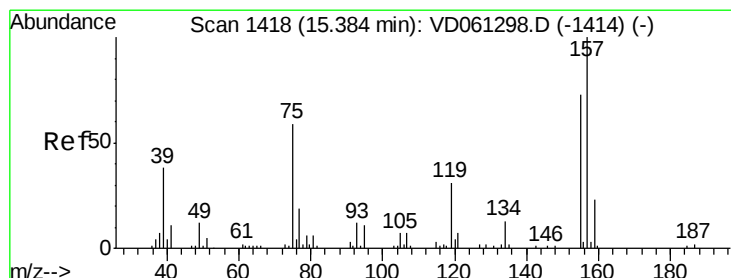
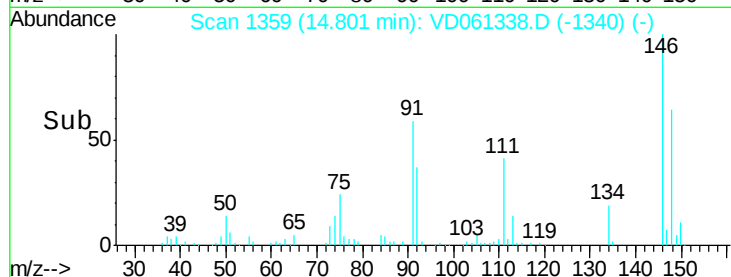
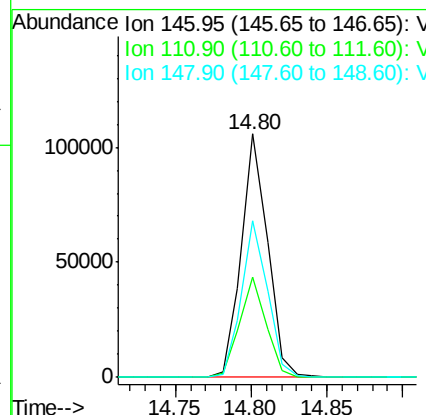
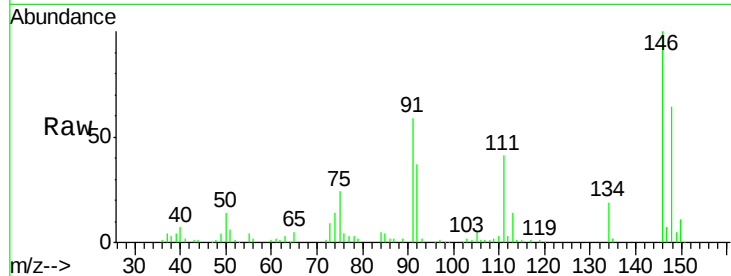
#91
 1,2-Dichlorobenzene
 Concen: 67.233 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	18.3	54.8
148	64.4	31.9	95.7

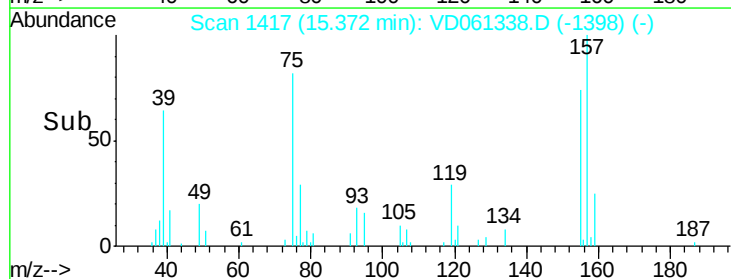
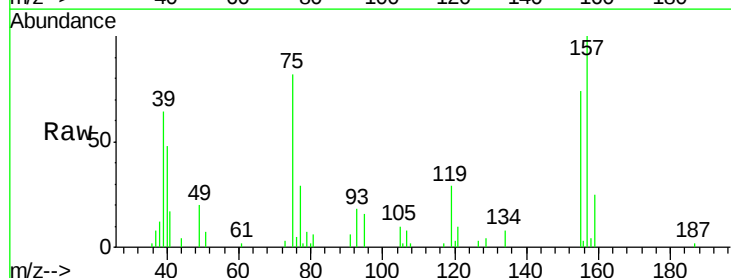
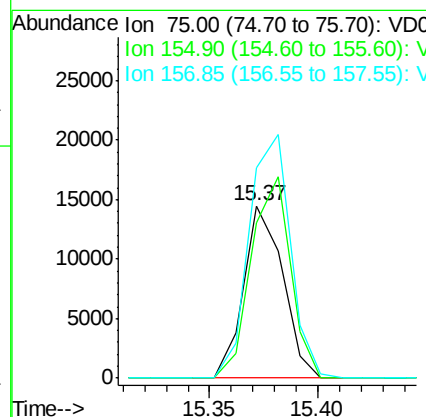
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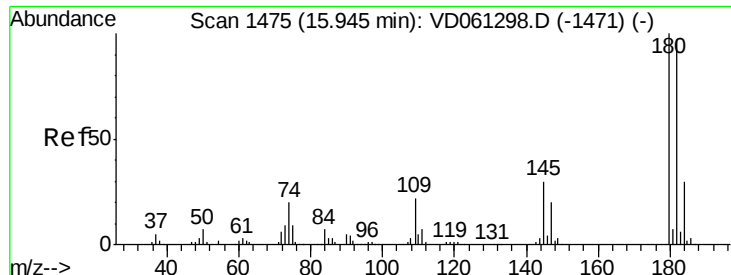
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 156.070 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.0	61.9	185.7
157	122.2	84.4	253.2





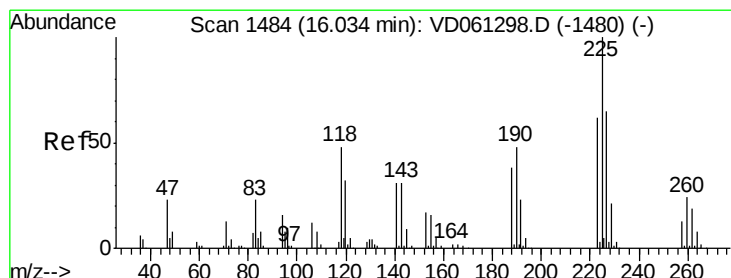
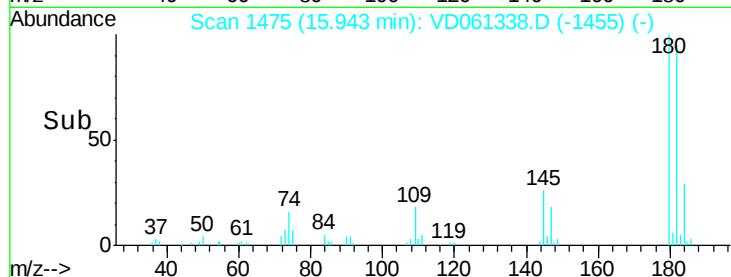
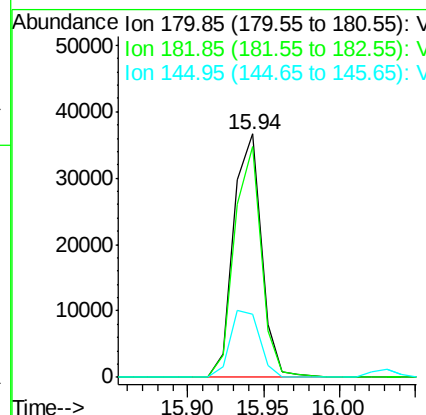
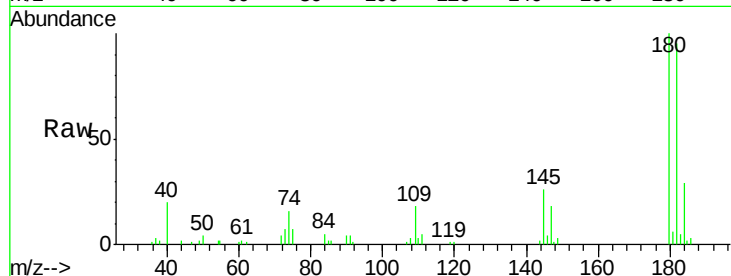
#93
 1,2,4-Trichlorobenzene
 Concen: 53.368 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100	46912		
182	94.7	48.3	144.9	
145	25.7	14.8	44.4	

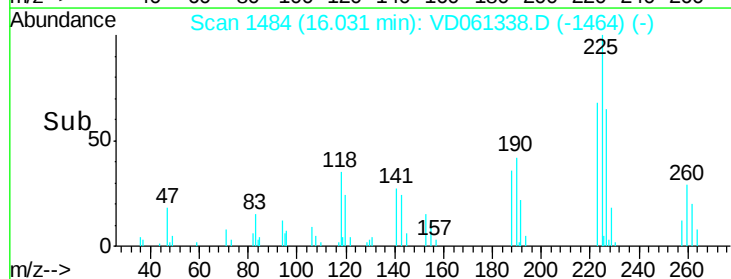
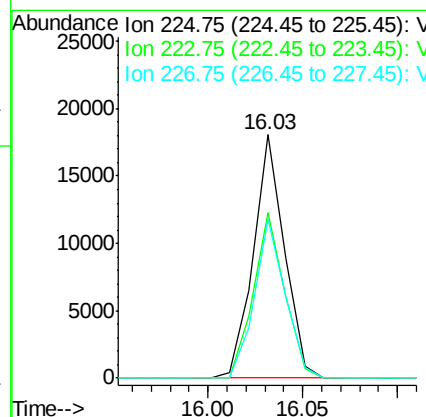
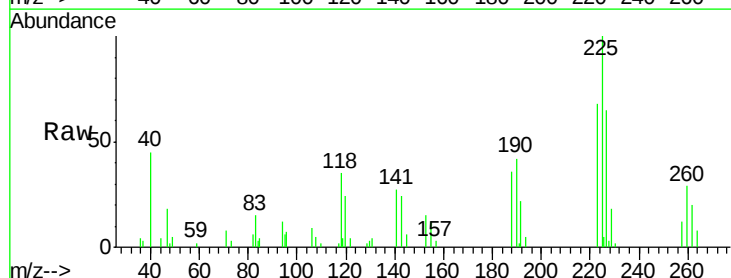
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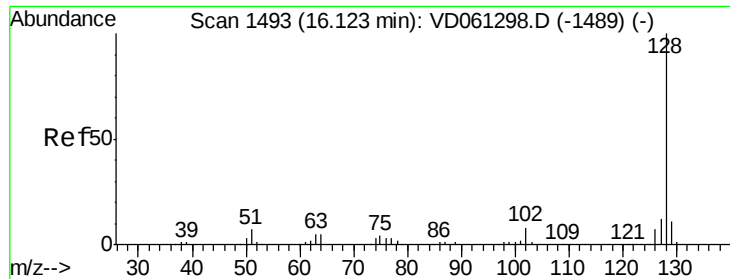
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 3/27/2019 12:02:26 PM



#94
 Hexachlorobutadiene
 Concen: 28.935 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD061338.D
 Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	20494		
223	67.8	30.9	92.8	
227	65.4	32.6	97.7	





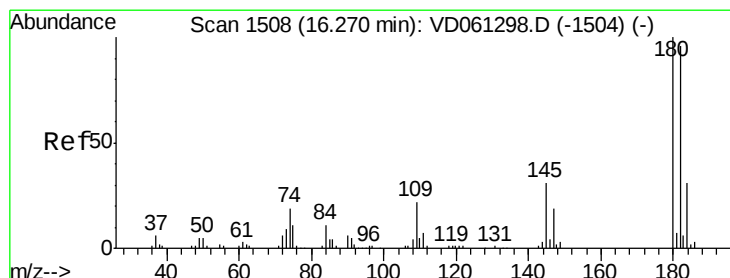
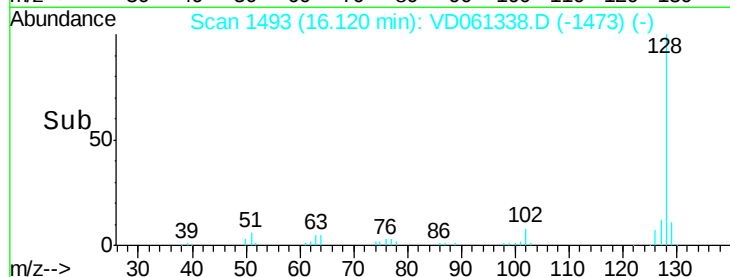
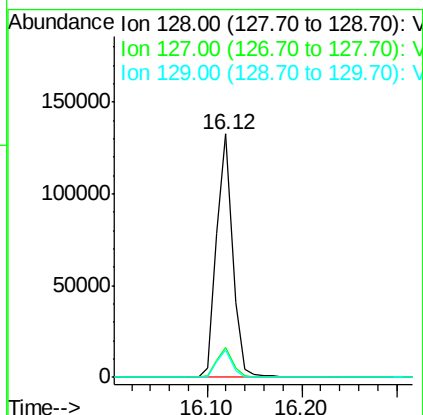
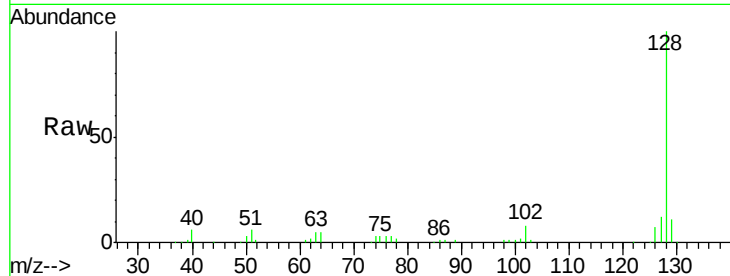
#95
Naphthalene
Concen: 122.378 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MS

Tot Ion	Ratio	Resp	Lower	Upper
128	100	156963		
127	12.2		9.8	14.6
129	11.1		8.6	12.8

Manual Integrations
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3/27/2019 12:02:26 PM



#96
1,2,3-Trichlorobenzene
Concen: 69.376 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD061338.D
Acq: 26 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	28483		
182	103.2		48.0	144.2
145	31.1		15.4	46.4

