

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD032719\
 Data File : VD061359.D
 Acq On : 27 Mar 2019 17:56
 Operator : VA/AP
 Sample : K2047-04MS
 Misc : 5.40g/5ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 3/30/2019 12:16:31 AM

Quant Time: Mar 28 09:31:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	630954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	1139031	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	920181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	388029	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.42	65	269036	49.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.82%	
35) Dibromofluoromethane	6.89	113	435058	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
50) Toluene-d8	10.39	98	928135	44.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.92%	
62) 4-Bromofluorobenzene	13.54	95	361123	45.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	334187	49.595	ug/l	99
3) Chloromethane	1.75	50	259811	47.277	ug/l	99
4) Vinyl Chloride	1.84	62	266457	52.808	ug/l	97
5) Bromomethane	2.15	94	51238	51.209	ug/l	93
6) Chloroethane	2.26	64	88984	60.137	ug/l	98
7) Trichlorofluoromethane	2.52	101	339522	46.273	ug/l	98
8) Diethyl Ether	2.85	74	123019	52.074	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.14	101	365213	46.299	ug/l	97
10) Methyl Iodide	3.29	142	565833	47.379	ug/l	99
11) Tert butyl alcohol	4.04	59	86813	258.631	ug/l	100
12) 1,1-Dichloroethene	3.11	96	327972	48.428	ug/l	99
13) Acrolein	3.02	56	47145	177.718	ug/l	97
14) Allyl chloride	3.60	41	482866	51.118	ug/l	97
15) Acrylonitrile	4.16	53	300086	257.580	ug/l	94
16) Acetone	3.20	43	487963	352.179	ug/l	97
17) Carbon Disulfide	3.36	76	1091541	49.606	ug/l	99
18) Methyl Acetate	3.61	43	170649	58.578	ug/l	95
19) Methyl tert-butyl Ether	4.21	73	615363	52.491	ug/l	100
20) Methylene Chloride	3.80	84	402213	51.892	ug/l	97
21) trans-1,2-Dichloroethene	4.19	96	357324	48.870	ug/l	97
22) Diisopropyl ether	5.08	45	1045844	52.321	ug/l	99
23) Vinyl Acetate	5.02	43	2459704	226.534	ug/l	99
24) 1,1-Dichloroethane	4.95	63	601452	51.199	ug/l	99
25) 2-Butanone	6.03	43	460973	264.486	ug/l	99
26) 2,2-Dichloropropane	6.00	77	461671	49.437	ug/l	98
27) cis-1,2-Dichloroethene	6.00	96	427239	53.331	ug/l	99
28) Bromochloromethane	6.41	49	232674	49.066	ug/l	90
29) Tetrahydrofuran	6.42	42	231180	273.658	ug/l	99
30) Chloroform	6.63	83	620157	51.091	ug/l	99
31) Cyclohexane	6.92	56	485679	52.318	ug/l	98
32) 1,1,1-Trichloroethane	6.84	97	525741	49.095	ug/l	97
36) 1,1-Dichloropropene	7.12	75	453674	45.636	ug/l	97
37) Ethyl Acetate	6.14	43	202779	47.695	ug/l	98
38) Carbon Tetrachloride	7.08	117	532375m	46.604	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.83	83	444624	42.944	ug/l	98
40) Benzene	7.42	78	1177065	47.178	ug/l	98
41) Methacrylonitrile	6.41	41	253513	50.997	ug/l	96
42) 1,2-Dichloroethane	7.55	62	372537	49.917	ug/l	99
43) Isopropyl Acetate	9.20	43	331098	53.524	ug/l	100
44) Trichloroethene	8.52	130	428254	46.124	ug/l	95
45) 1,2-Dichloropropane	8.91	63	295499	46.708	ug/l	98
46) Dibromomethane	9.04	93	202323	47.514	ug/l	97
47) Bromodichloromethane	9.34	83	478929	50.111	ug/l	96
48) Methyl methacrylate	9.09	41	158499	46.426	ug/l	99
49) 1,4-Dioxane	9.06	88	38211	1014.742	ug/l #	83
51) 4-Methyl-2-Pentanone	10.27	43	906194	240.784	ug/l	99
52) Toluene	10.48	92	716523	47.074	ug/l	98
53) t-1,3-Dichloropropene	10.89	75	436453	50.263	ug/l	98
54) cis-1,3-Dichloropropene	10.01	75	535772	50.672	ug/l	97
55) 1,1,2-Trichloroethane	11.16	97	253019	47.532	ug/l	97
56) Ethyl methacrylate	11.02	69	276111	48.284	ug/l	97
57) 1,3-Dichloropropane	11.38	76	377151	48.204	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.83	63	664141	238.481	ug/l	95
59) 2-Hexanone	11.51	43	665397	244.023	ug/l	97
60) Dibromochloromethane	11.66	129	402886	49.095	ug/l	95
61) 1,2-Dibromoethane	11.78	107	311961	50.611	ug/l	98
64) Tetrachloroethene	11.23	164	353896	49.004	ug/l	97
65) Chlorobenzene	12.37	112	1115948	59.342	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.49	131	366044	50.272	ug/l	97
67) Ethyl Benzene	12.50	91	1384122	48.220	ug/l	100
68) m/p-Xylenes	12.65	106	1001306	92.089	ug/l	99
69) o-Xylene	13.03	106	433377	41.072	ug/l	98
70) Styrene	13.05	104	838792	45.603	ug/l	97
71) Bromoform	13.22	173	216182	46.837	ug/l	98
73) Isopropylbenzene	13.39	105	1321628	48.938	ug/l	99
74) N-amyl acetate	13.25	43	322623	42.884	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.68	83	289006	50.729	ug/l	96
76) 1,2,3-Trichloropropane	13.71	75	247538	44.162	ug/l	100
77) Bromobenzene	13.65	156	382606	47.788	ug/l	87
78) n-propylbenzene	13.75	91	1459808	44.170	ug/l	94
79) 2-Chlorotoluene	13.82	91	924684	51.528	ug/l	97
80) 1,3,5-Trimethylbenzene	13.92	105	1010812	48.240	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.46	75	91951	53.803	ug/l	96
82) 4-Chlorotoluene	13.93	91	997156	51.104	ug/l	94
83) tert-Butylbenzene	14.18	119	1222777	46.695	ug/l	94
84) 1,2,4-Trimethylbenzene	14.22	105	927906	40.904	ug/l	97
85) sec-Butylbenzene	14.35	105	1287453	46.279	ug/l	97
86) p-Isopropyltoluene	14.47	119	1054132	44.811	ug/l	98
87) 1,3-Dichlorobenzene	14.44	146	630856	46.531	ug/l	95
88) 1,4-Dichlorobenzene	14.52	146	624269	47.216	ug/l	97
89) n-Butylbenzene	14.79	91	900034	41.685	ug/l	97
90) Hexachloroethane	14.99	117	315766	47.514	ug/l	84
91) 1,2-Dichlorobenzene	14.80	146	534383	48.053	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	37676	56.387	ug/l	68

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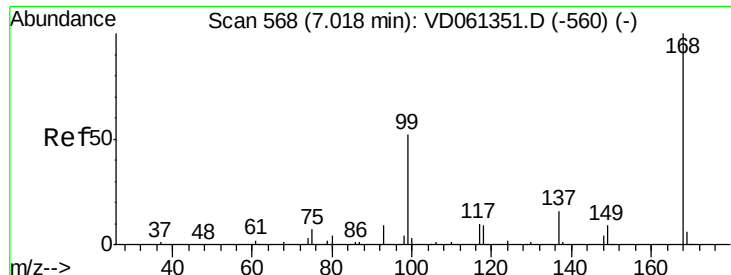
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.93	180	256497	50.632	ug/l	94
94) Hexachlorobutadiene	16.03	225	155630	39.314	ug/l	98
95) Naphthalene	16.11	128	412616	53.436	ug/l	100
96) 1,2,3-Trichlorobenzene	16.25	180	141572	63.507	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

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Tgt Ion: 168 Resp: 630954

Ion Ratio Lower Upper

168 100

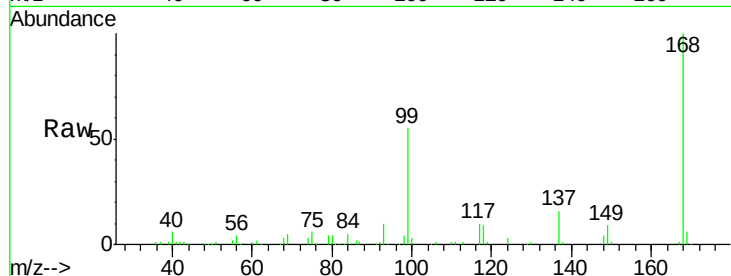
99 54.8 43.1 64.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

250000

200000

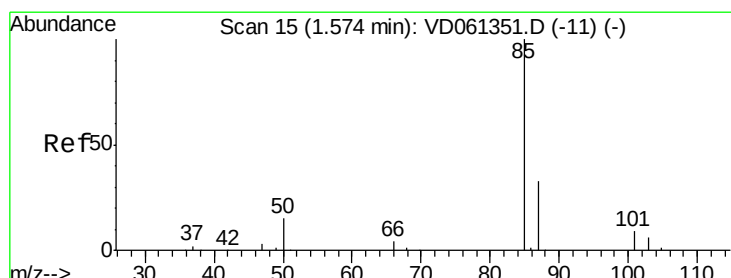
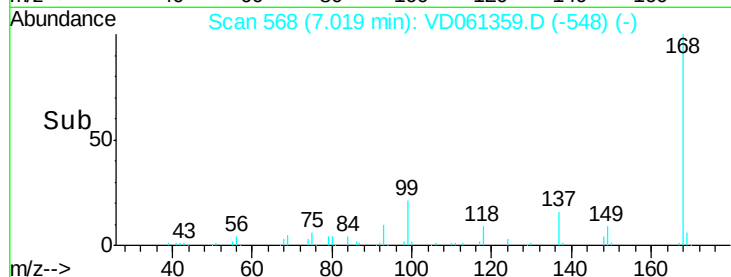
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 49.595 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD061359.D

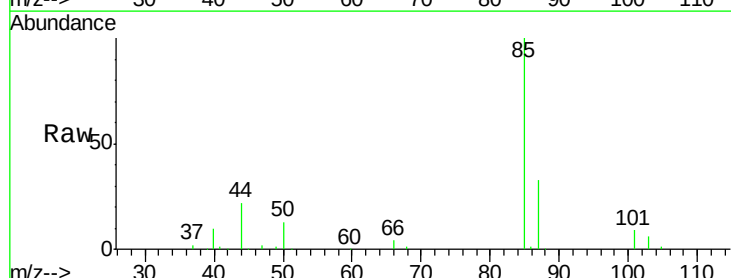
Acq: 27 Mar 2019 17:56

Tgt Ion: 85 Resp: 334187

Ion Ratio Lower Upper

85 100

87 32.6 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

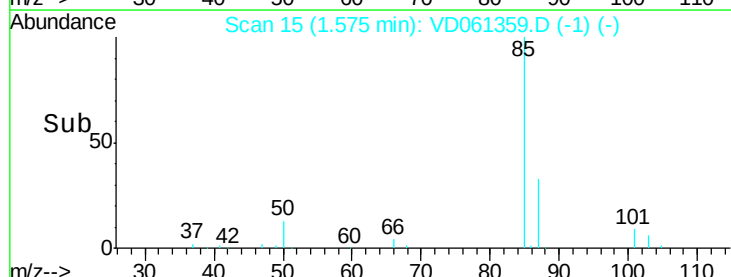
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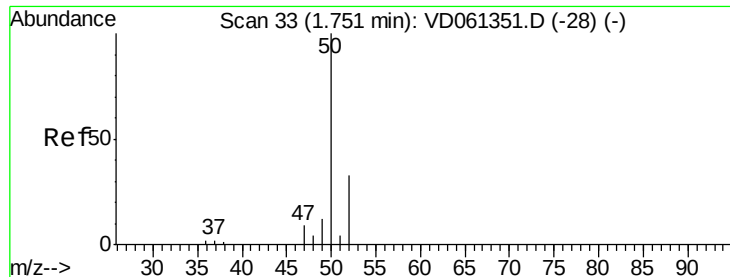
100000

50000

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Time-->





#3

Chloromethane

Concen: 47.277 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 50 Resp: 259811

Ion Ratio Lower Upper

50 100

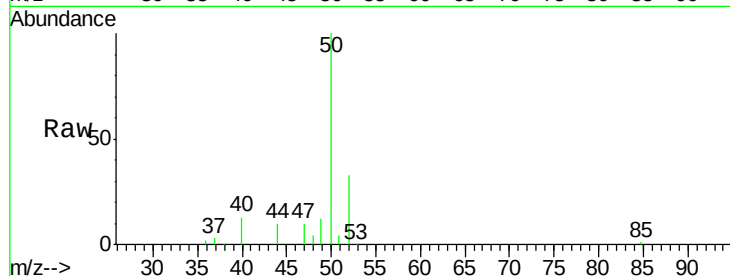
52 33.0 26.1 39.1

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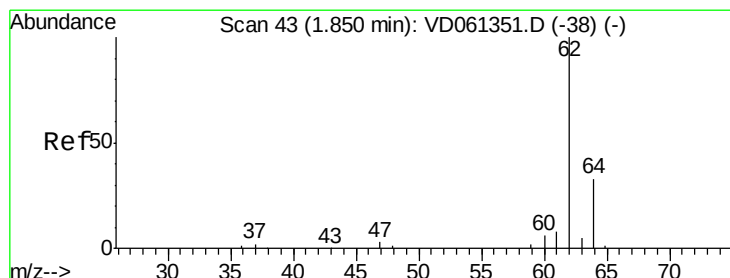
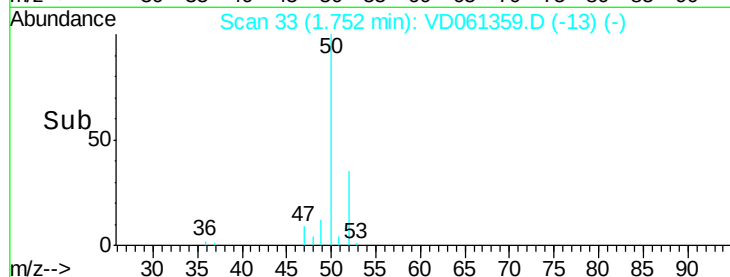
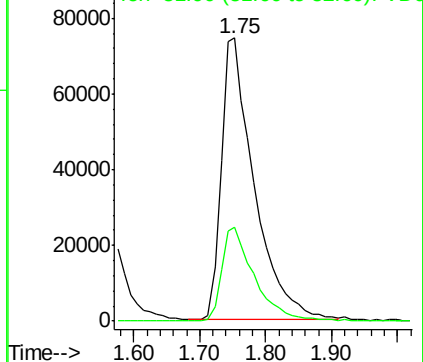
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 52.808 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.01 min

Lab File: VD061359.D

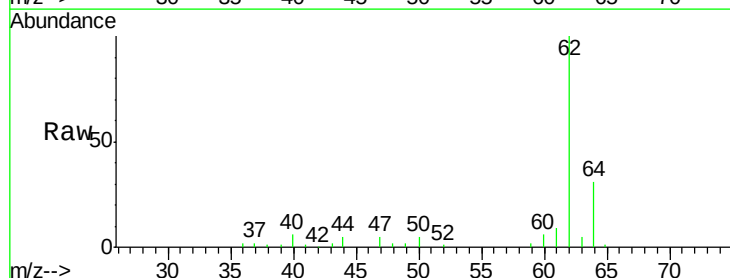
Acq: 27 Mar 2019 17:56

Tgt Ion: 62 Resp: 266457

Ion Ratio Lower Upper

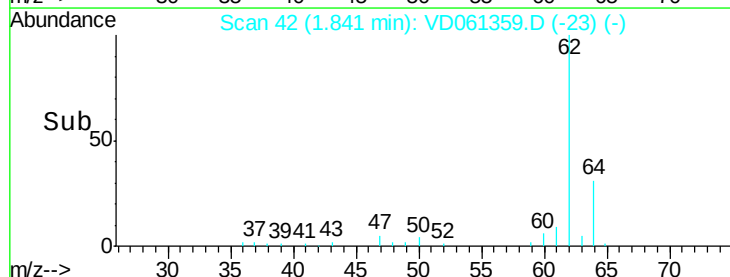
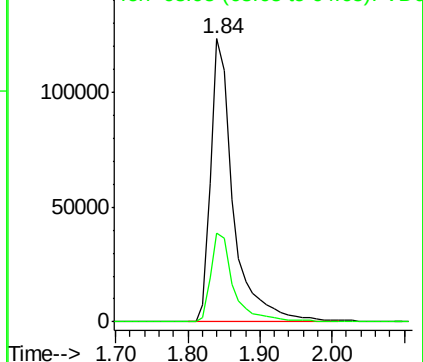
62 100

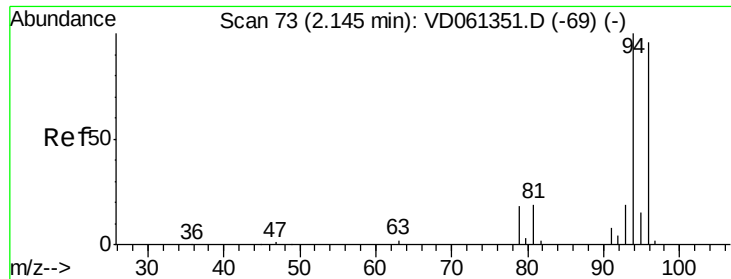
64 31.4 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





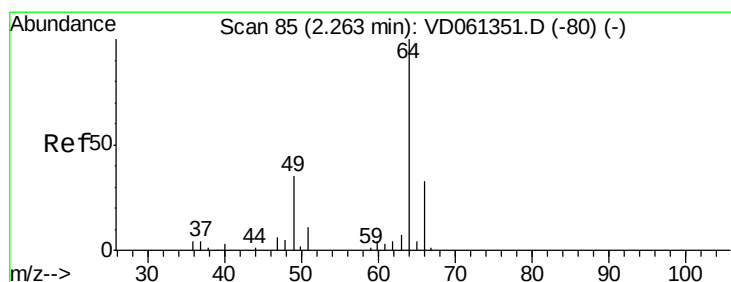
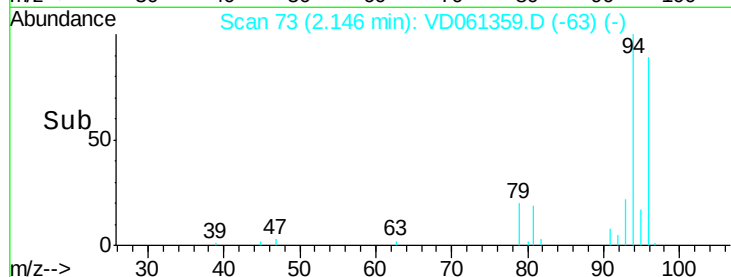
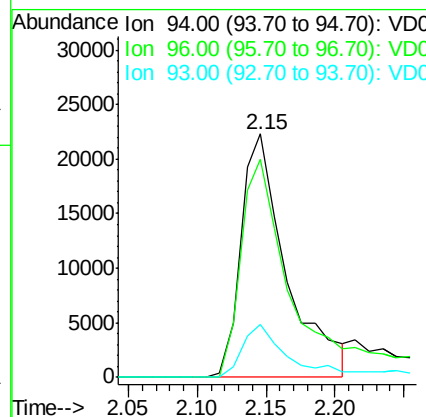
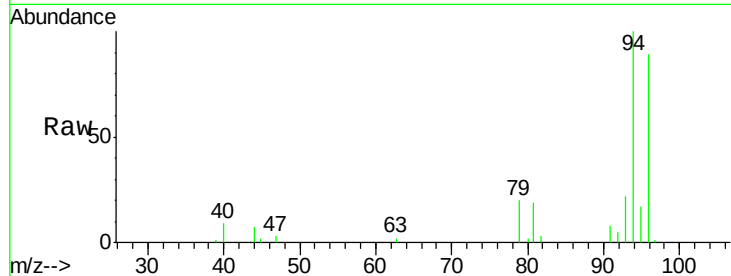
#5
Bromomethane
Concen: 51.209 ug/l
RT: 2.15 min Scan# 73
Delta R.T. 0.00 min
Lab File: VD061359.D
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Tgt Ion	Ratio	Lower	Upper
94	100		
96	90.8	78.3	117.5
93	21.8	15.6	23.4

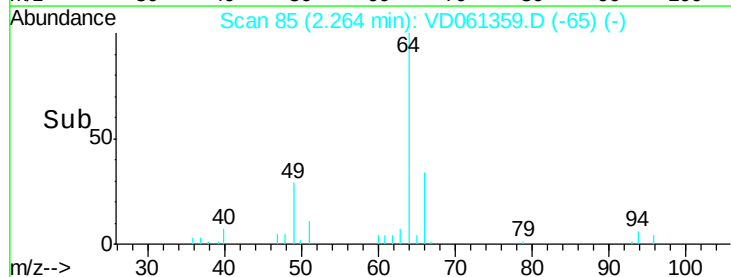
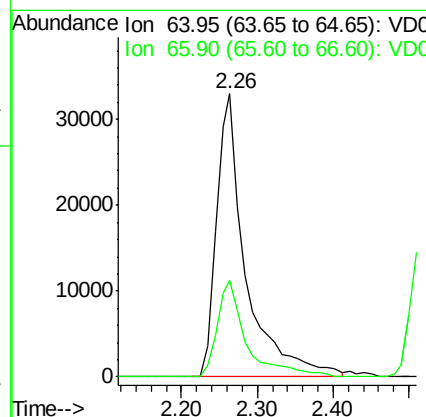
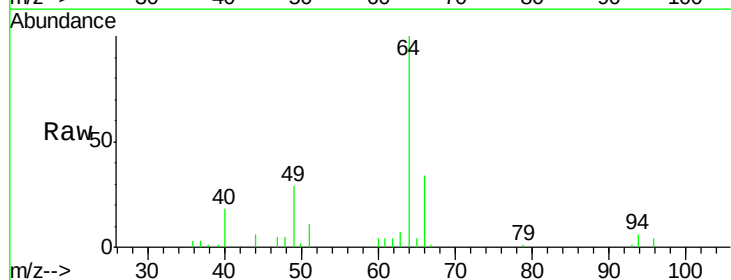
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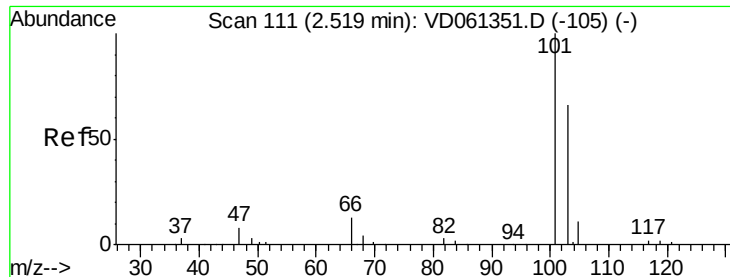
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#6
Chloroethane
Concen: 60.137 ug/l
RT: 2.26 min Scan# 85
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
64	100		
66	34.0	26.2	39.2





#7

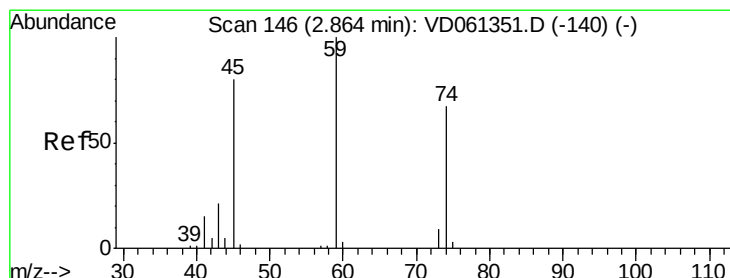
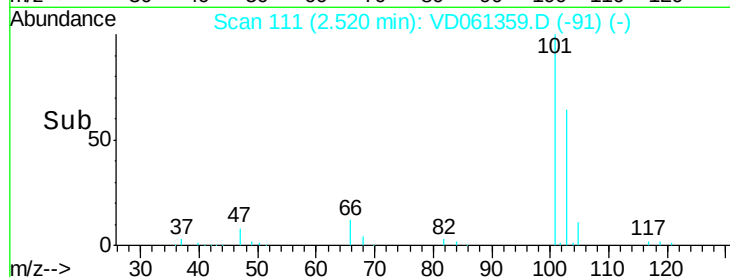
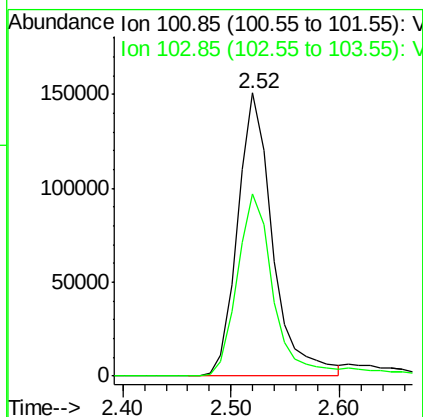
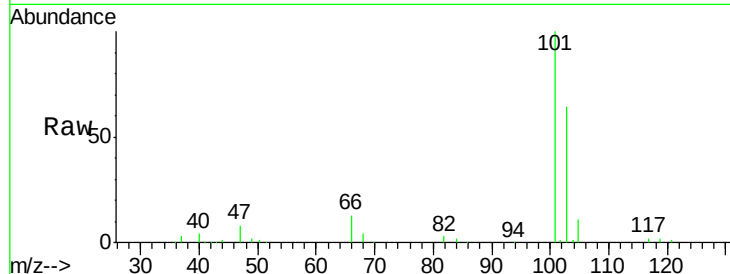
Trichlorofluoromethane
Concen: 46.273 ug/l
RT: 2.52 min Scan# 111
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Instrument :
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Tgt Ion: 101 Resp: 339522
Ion Ratio Lower Upper
101 100
103 64.4 53.1 79.7

Manual Integrations
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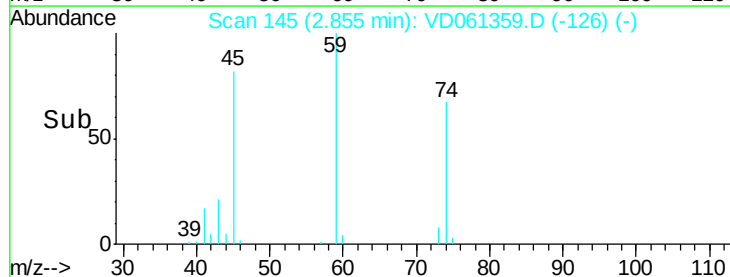
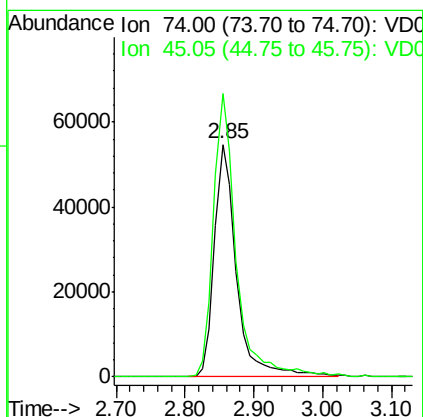
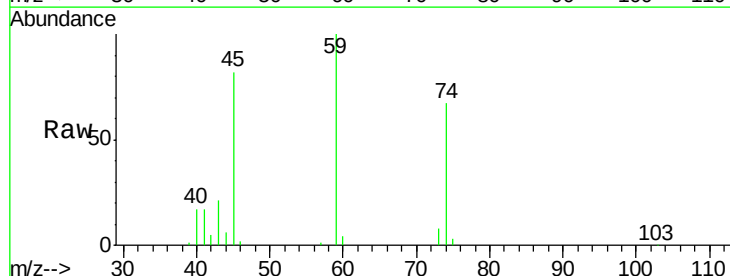
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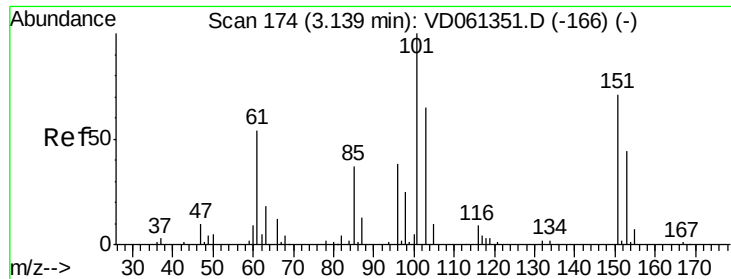


#8

Diethyl Ether
Concen: 52.074 ug/l
RT: 2.85 min Scan# 145
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 74 Resp: 123019
Ion Ratio Lower Upper
74 100
45 121.9 59.7 179.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.299 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

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MSVOA_D

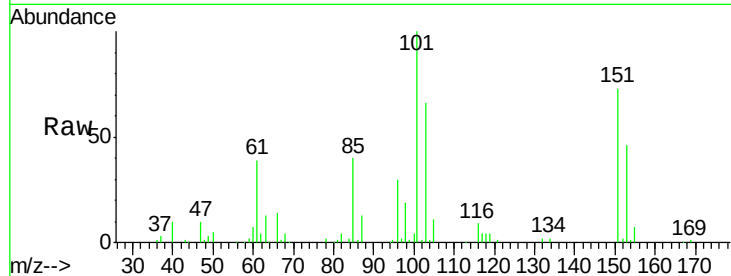
ClientSampleId :

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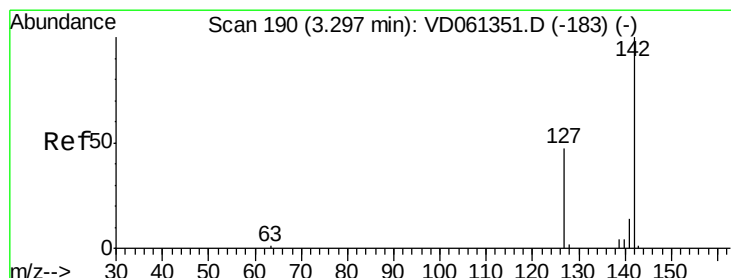
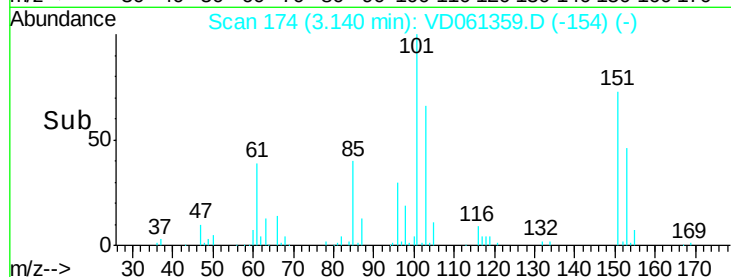
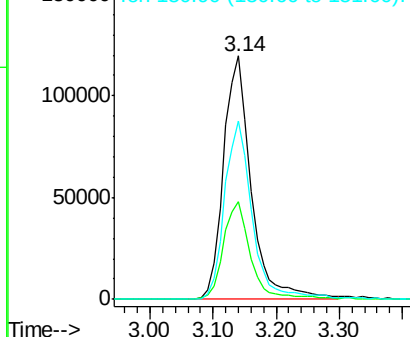
Tgt Ion:	101	Resp:	365213
Ion Ratio	Lower	Upper	
101	100		
85	40.0	29.4	44.0
151	73.2	57.0	85.4

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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: 47.379 ug/l

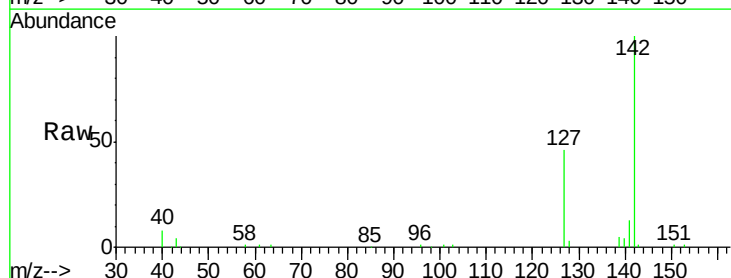
RT: 3.29 min Scan# 189

Delta R.T. -0.01 min

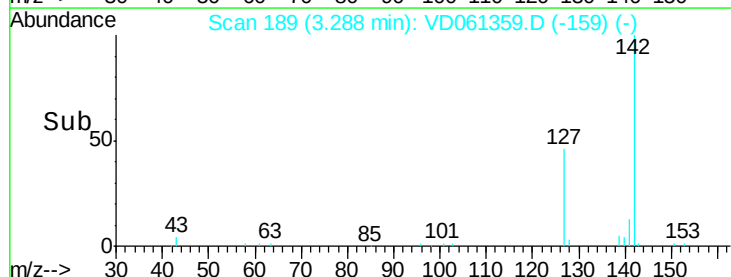
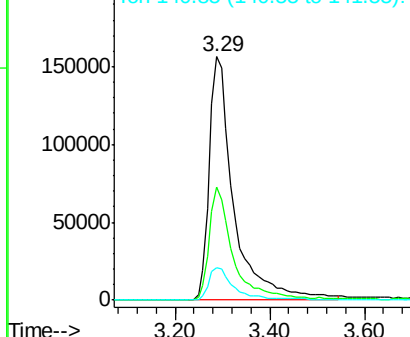
Lab File: VD061359.D

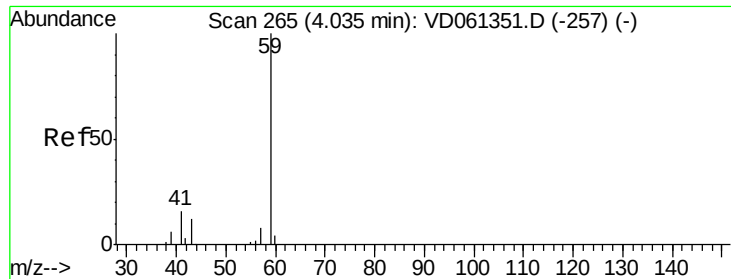
Acq: 27 Mar 2019 17:56

Tgt Ion:	142	Resp:	565833
Ion Ratio	Lower	Upper	
142	100		
127	46.3	37.7	56.5
141	13.4	11.5	17.3



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

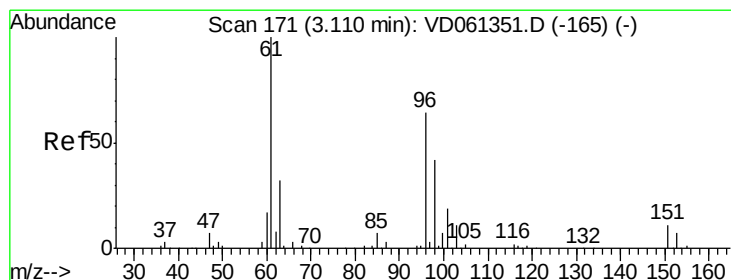
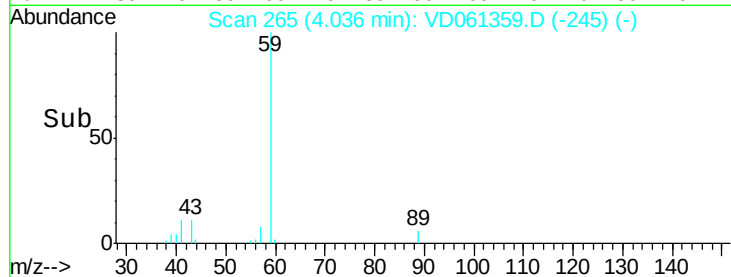
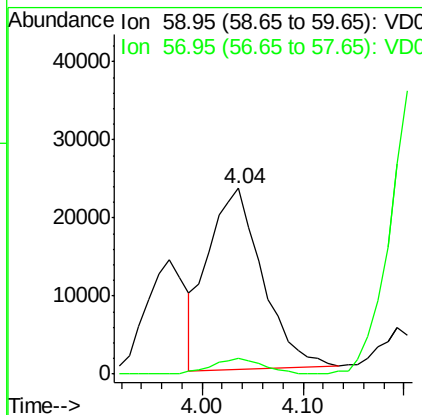
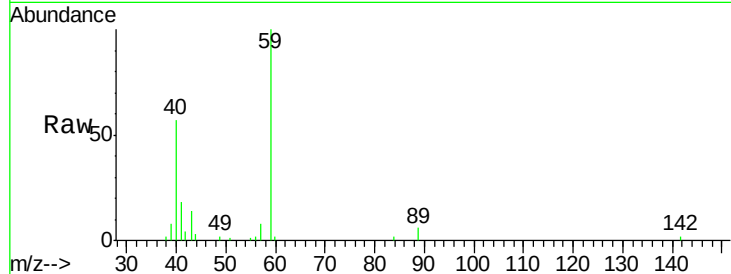
Tert butyl alcohol
Concen: 258.631 ug/l
RT: 4.04 min Scan# 265
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 59 Resp: 86813
Ion Ratio Lower Upper
59 100
57 8.4 6.7 10.1

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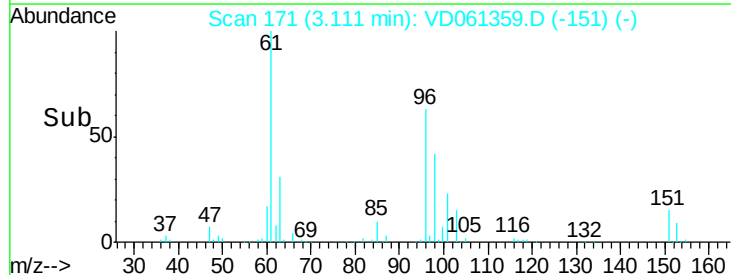
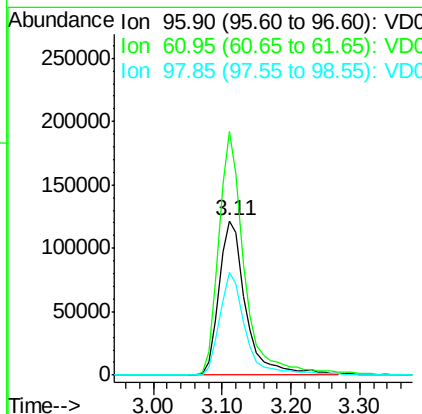
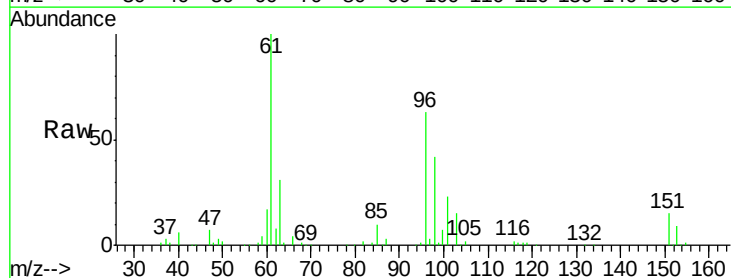
MMDadoda
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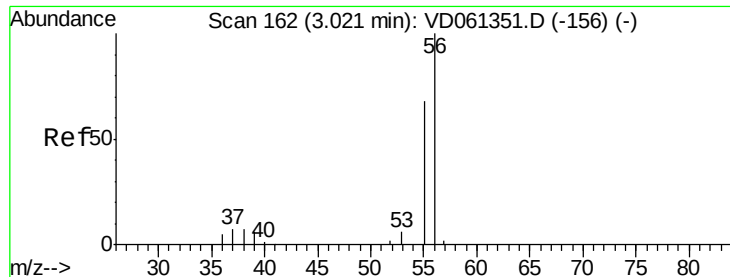


#12

1,1-Dichloroethene
Concen: 48.428 ug/l
RT: 3.11 min Scan# 171
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 96 Resp: 327972
Ion Ratio Lower Upper
96 100
61 157.7 124.9 187.3
98 66.6 52.5 78.7





#13

Acrolein

Concen: 177.718 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 56 Resp: 47145

Ion Ratio Lower Upper

56 100

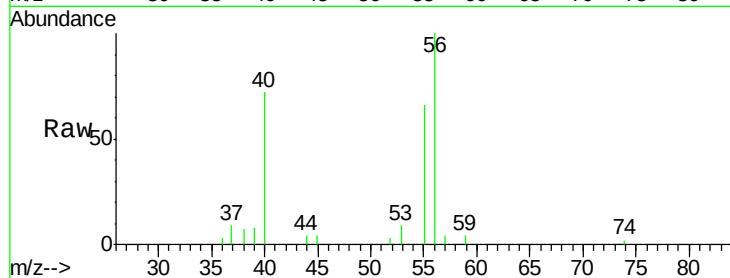
55 66.1 54.6 82.0

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

20000

15000

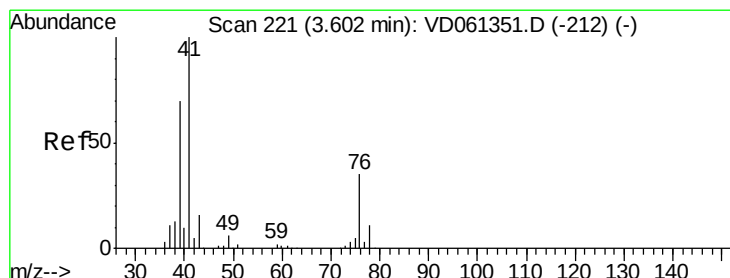
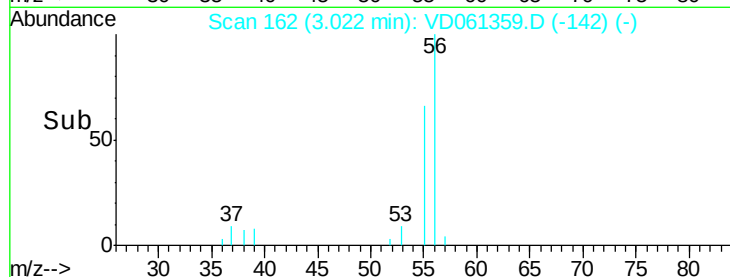
10000

5000

0

Time-->

2.90 3.00 3.10 3.20



#14

Allyl chloride

Concen: 51.118 ug/l

RT: 3.60 min Scan# 221

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

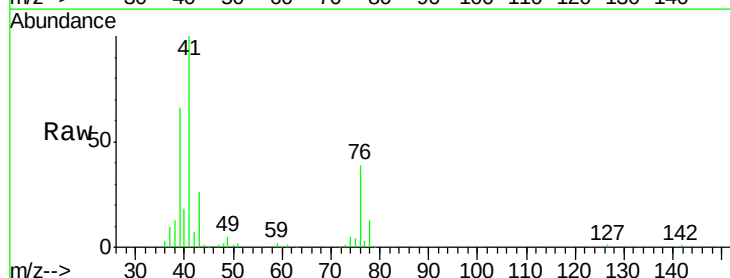
Tgt Ion: 41 Resp: 482866

Ion Ratio Lower Upper

41 100

39 66.2 55.6 83.4

76 38.6 31.0 46.6



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

200000

150000

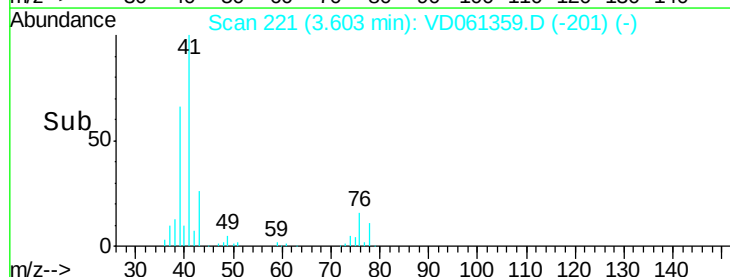
100000

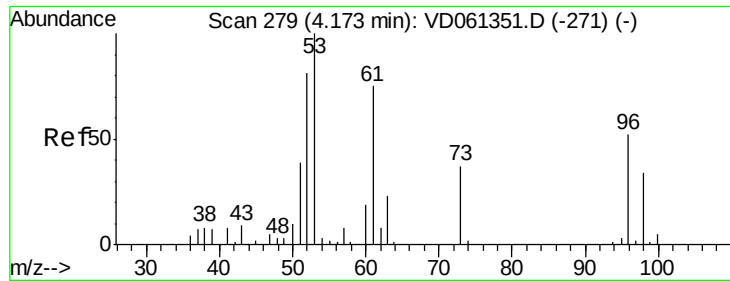
50000

0

Time-->

3.40 3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 257.580 ug/l

RT: 4.16 min Scan# 278

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

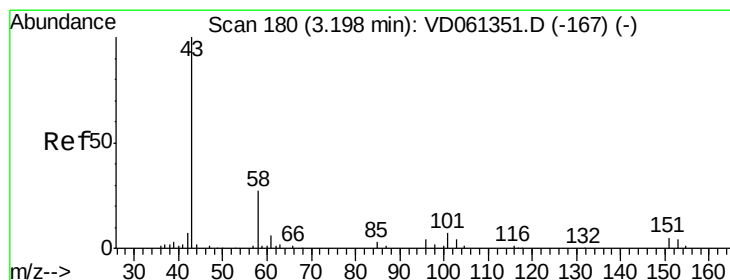
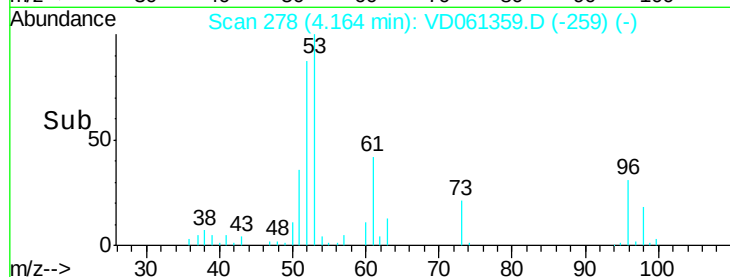
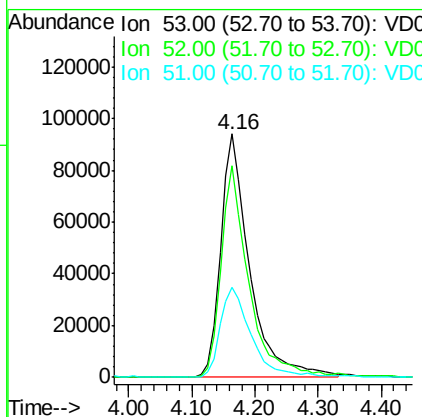
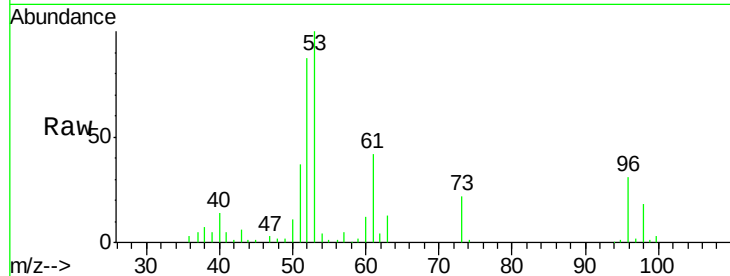
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	53	Resp:	300086
Ion	Ratio	Lower	Upper
53	100		
52	86.7	64.8	97.2
51	36.9	31.4	47.2

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#16

Acetone

Concen: 352.179 ug/l

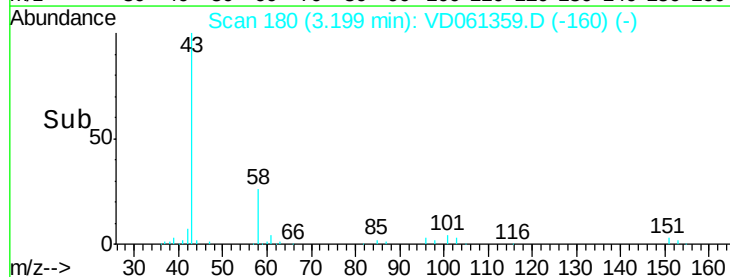
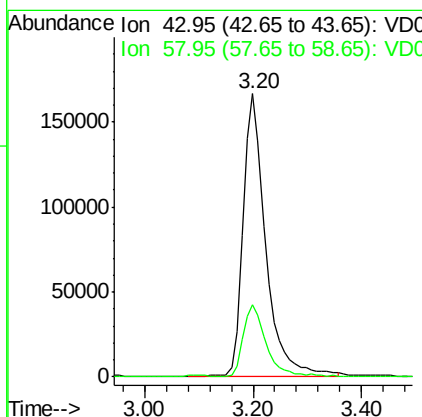
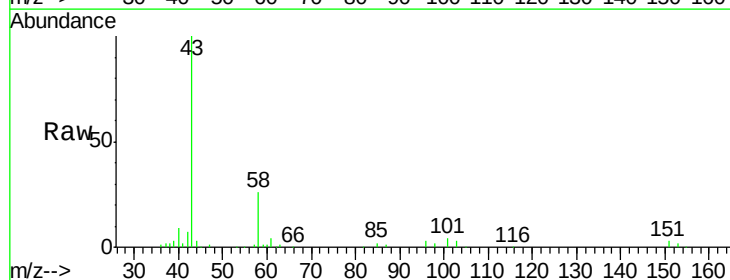
RT: 3.20 min Scan# 180

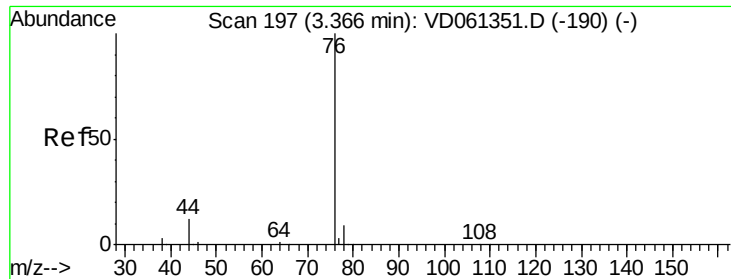
Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	43	Resp:	487963
Ion	Ratio	Lower	Upper
43	100		
58	25.6	21.5	32.3





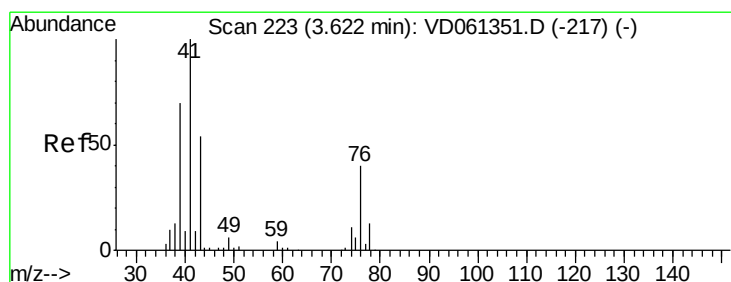
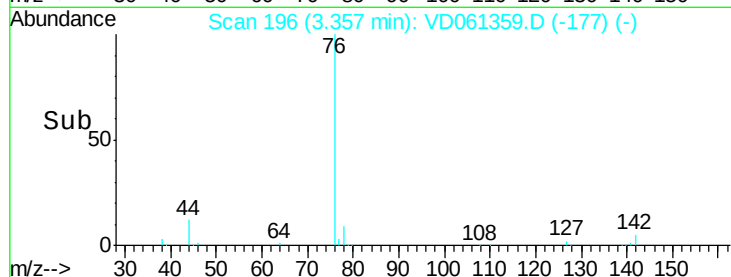
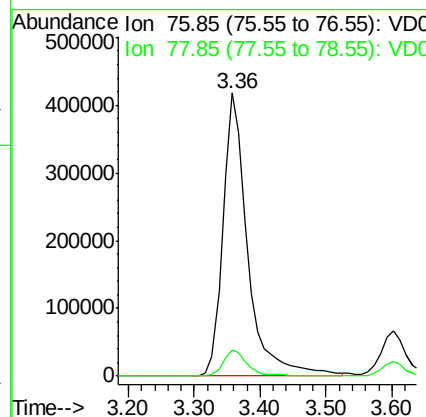
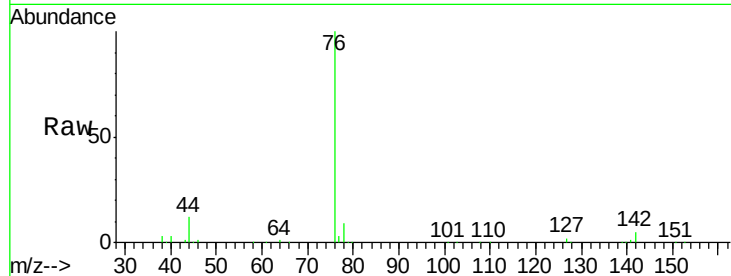
#17
Carbon Disulfide
Concen: 49.606 ug/l
RT: 3.36 min Scan# 196
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 76 Resp: 1091541
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7

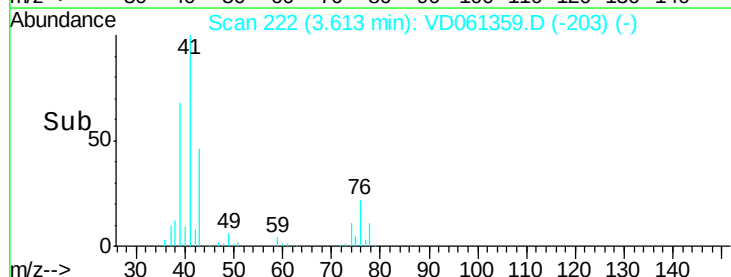
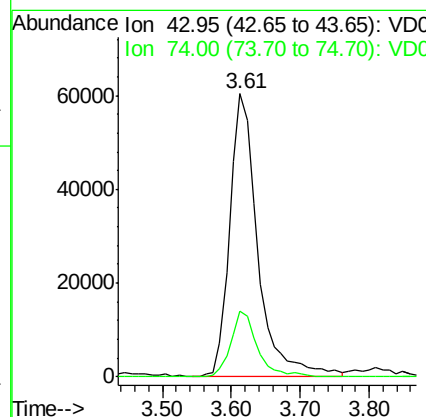
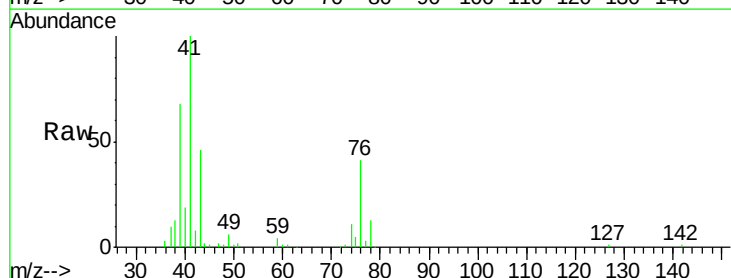
Manual Integrations
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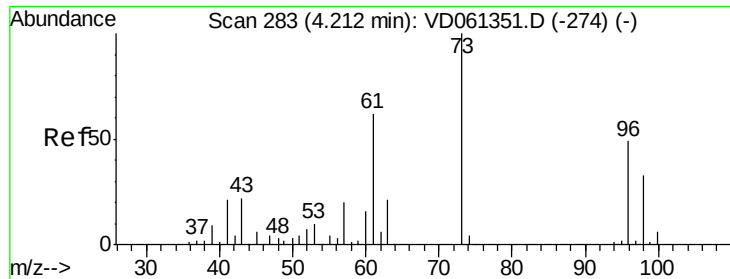
MMDadoda
3/30/2019 12:16:31 AM



#18
Methyl Acetate
Concen: 58.578 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 43 Resp: 170649
Ion Ratio Lower Upper
43 100
74 23.2 16.7 25.1





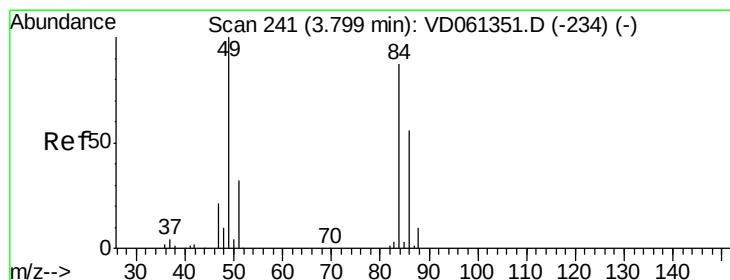
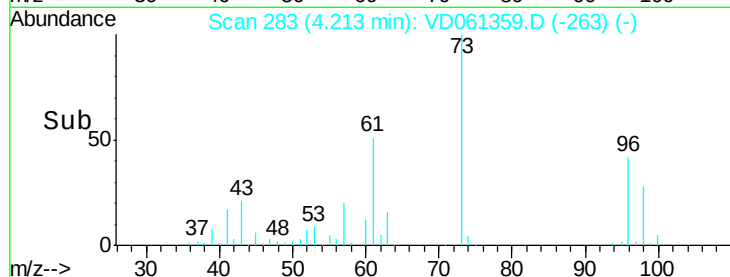
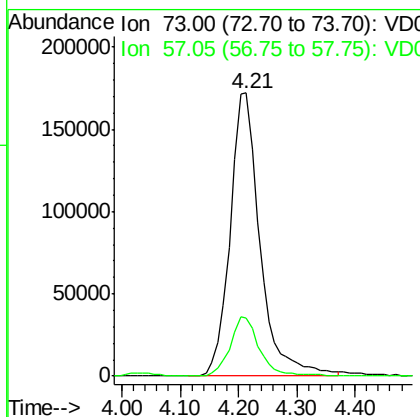
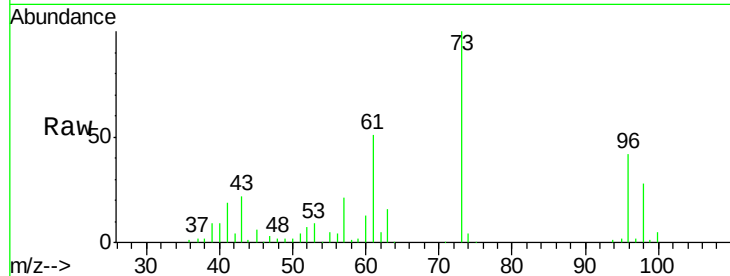
#19
Methyl tert-butyl Ether
Concen: 52.491 ug/l
RT: 4.21 min Scan# 283
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 73 Resp: 615363
Ion Ratio Lower Upper
73 100
57 20.7 16.4 24.6

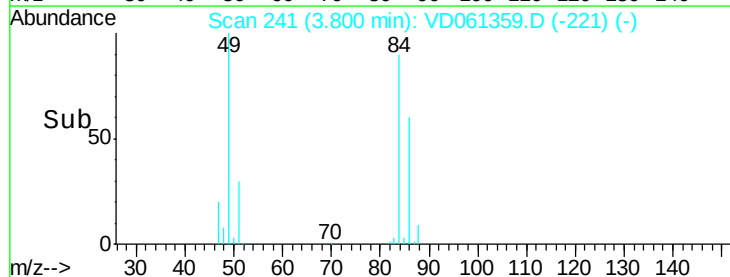
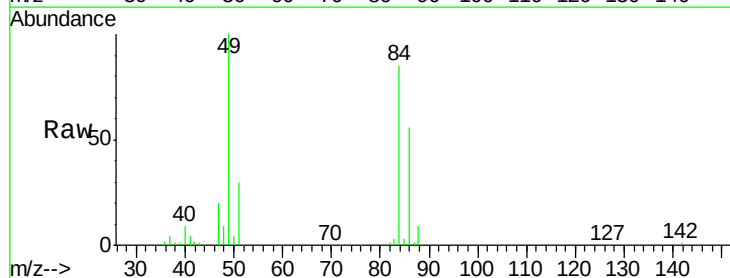
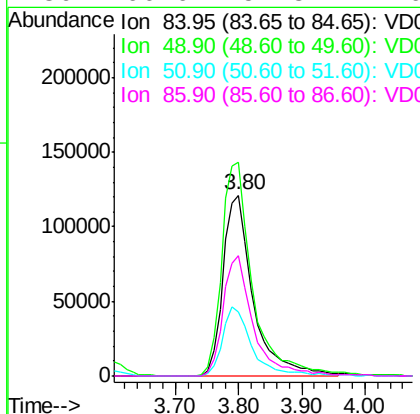
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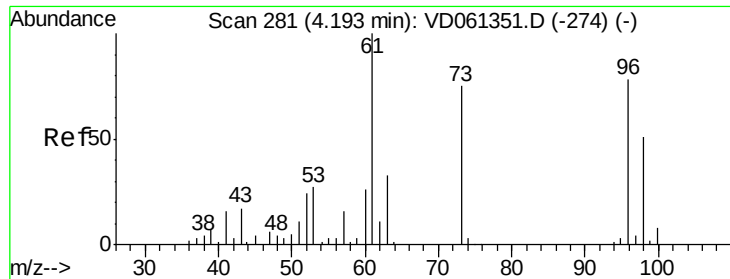
MMDadoda
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#20
Methylene Chloride
Concen: 51.892 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 84 Resp: 402213
Ion Ratio Lower Upper
84 100
49 118.0 91.8 137.8
51 35.4 29.8 44.8
86 66.6 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 48.870 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

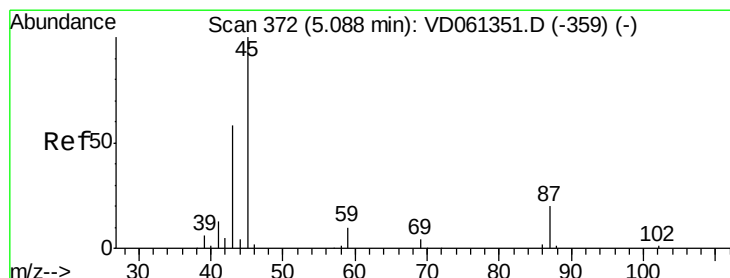
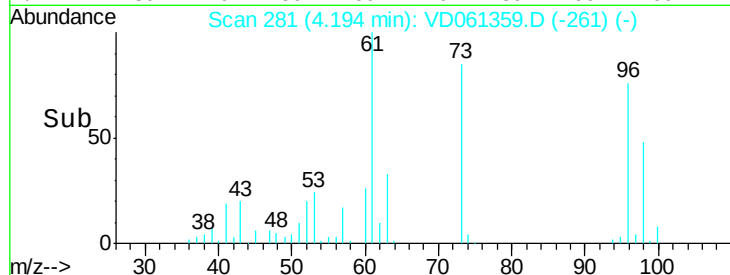
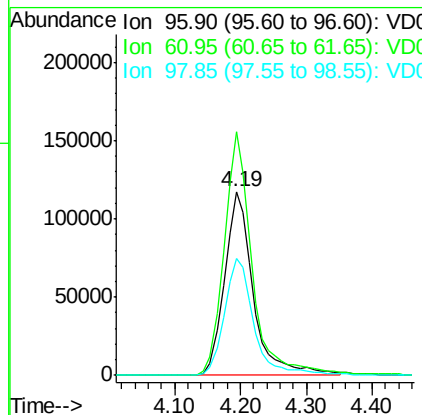
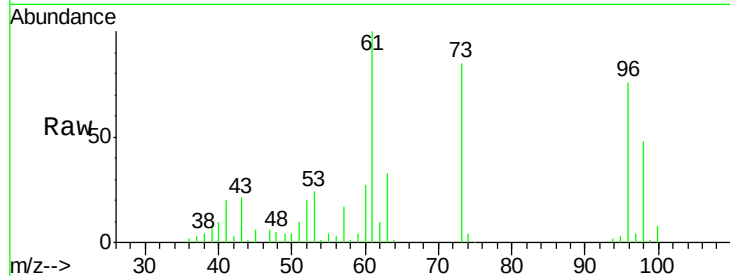
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	96	Resp:	357324
Ion	Ratio	Lower	Upper
96	100		
61	132.4	102.7	154.1
98	63.7	52.2	78.4

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#22

Diisopropyl ether

Concen: 52.321 ug/l

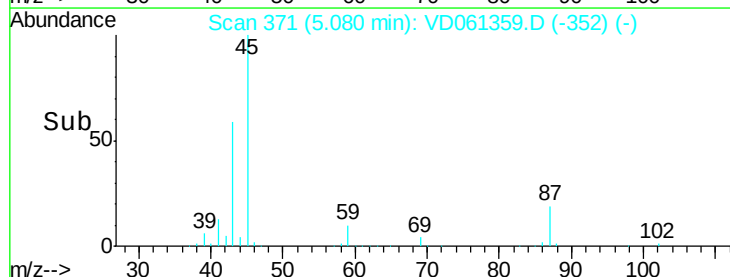
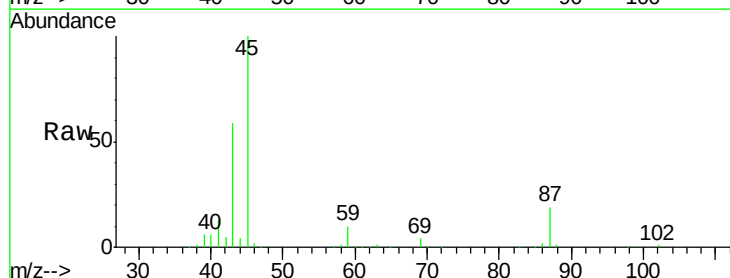
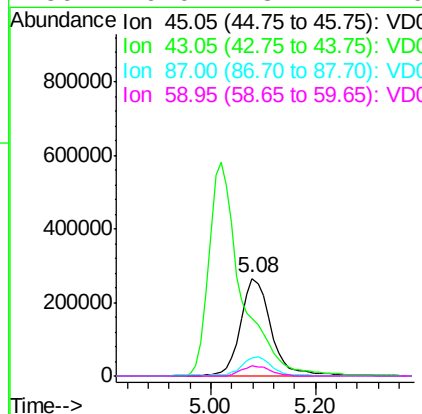
RT: 5.08 min Scan# 371

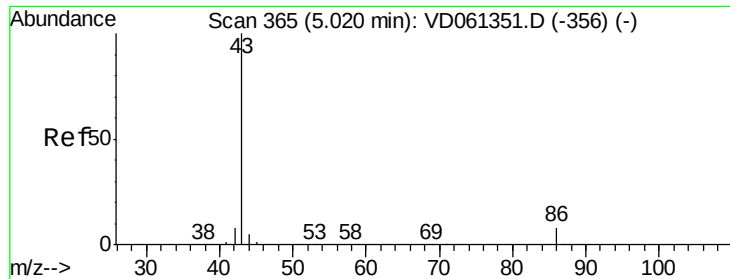
Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	45	Resp:	1045844
Ion	Ratio	Lower	Upper
45	100		
43	58.7	47.4	71.2
87	19.0	16.3	24.5
59	10.0	8.4	12.6





#23

Vinyl Acetate

Concen: 226.534 ug/l

RT: 5.02 min Scan# 365

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 43 Resp: 2459704

Ion Ratio Lower Upper

43 100

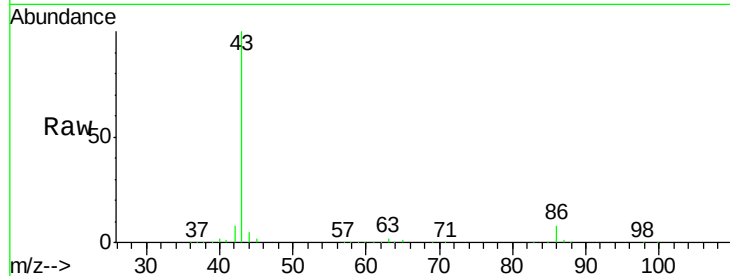
86 7.9 6.7 10.1

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.02

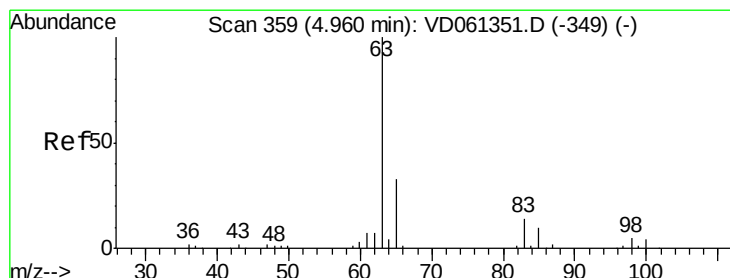
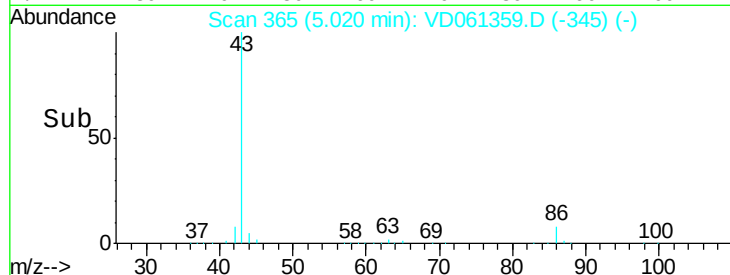
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 51.199 ug/l

RT: 4.95 min Scan# 358

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

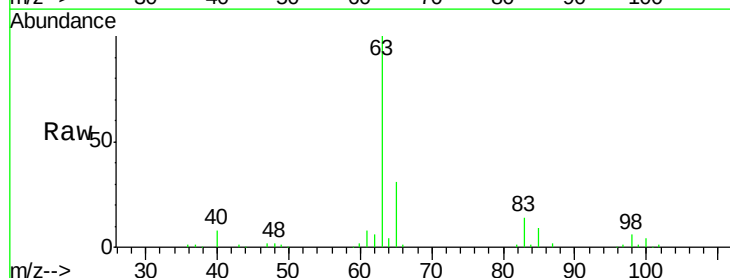
Tgt Ion: 63 Resp: 601452

Ion Ratio Lower Upper

63 100

98 5.8 2.6 8.0

100 3.6 1.8 5.3



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

4.95

200000

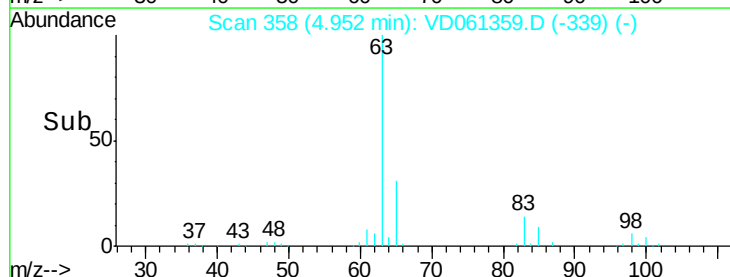
150000

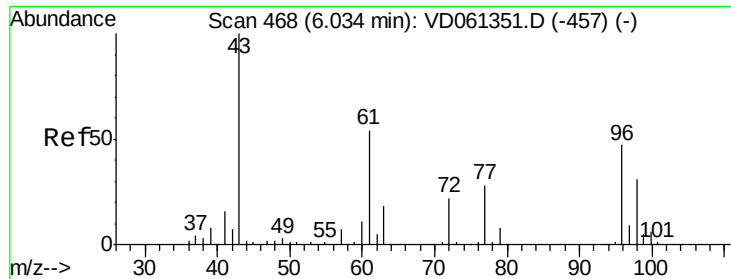
100000

50000

0

Time-->





#25

2-Butanone

Concen: 264.486 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 43 Resp: 460973

Ion Ratio Lower Upper

43 100

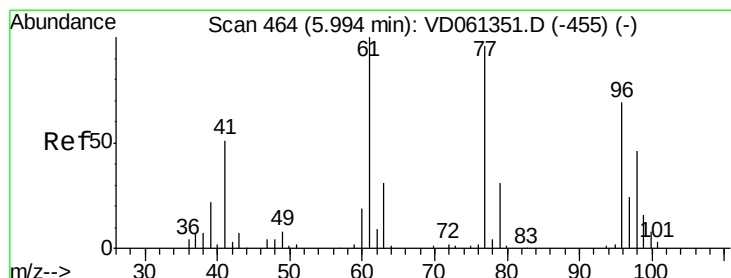
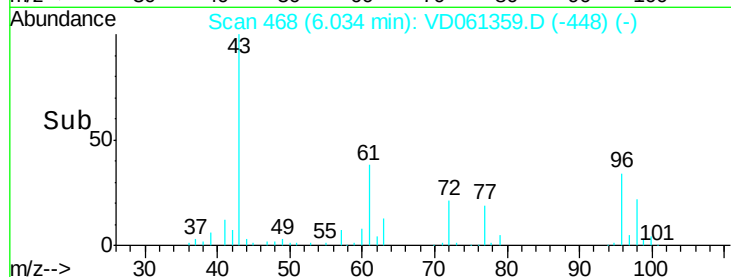
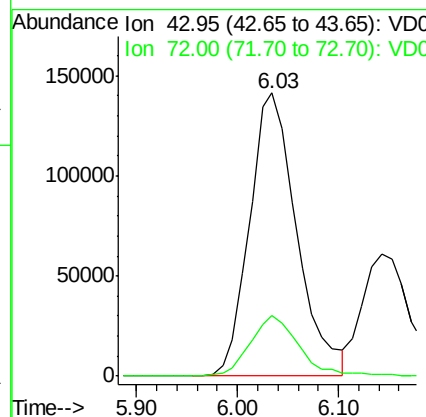
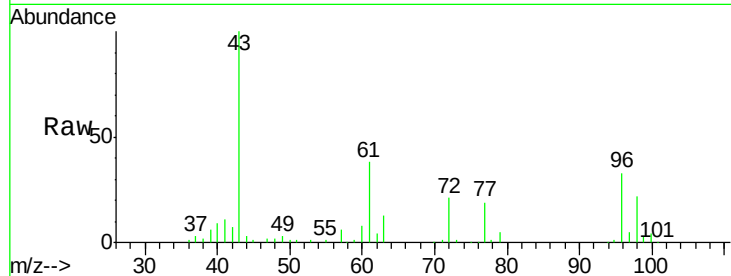
72 21.2 17.2 25.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 49.437 ug/l

RT: 6.00 min Scan# 464

Delta R.T. 0.00 min

Lab File: VD061359.D

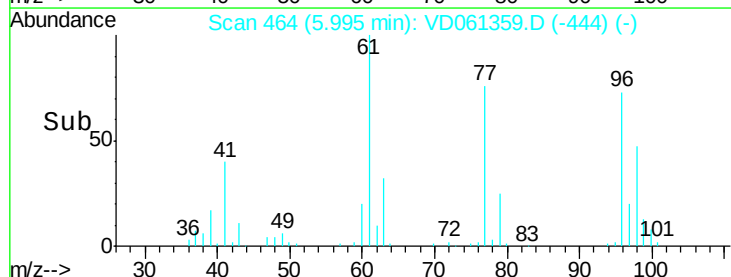
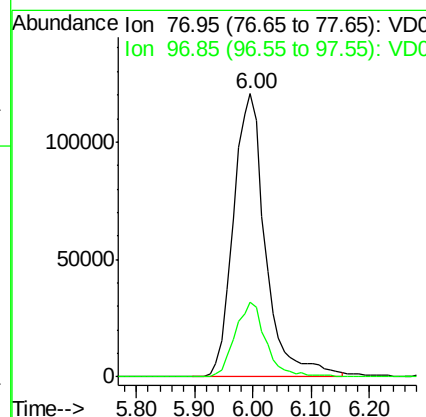
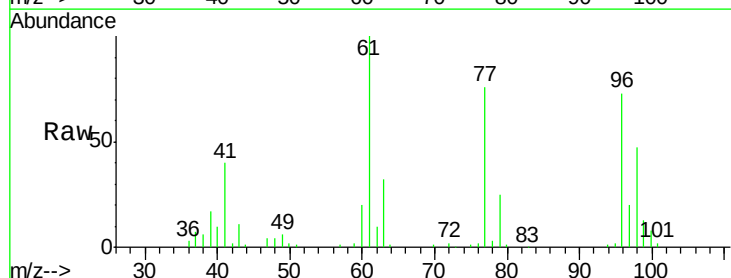
Acq: 27 Mar 2019 17:56

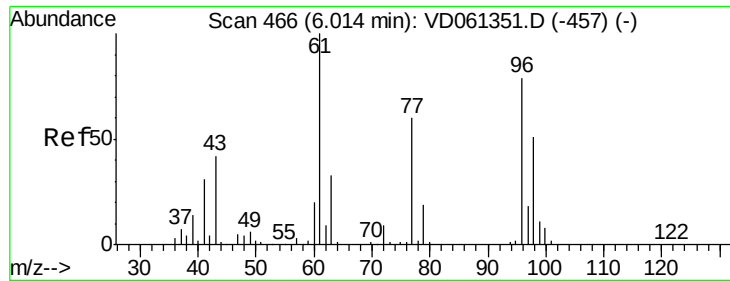
Tgt Ion: 77 Resp: 461671

Ion Ratio Lower Upper

77 100

97 26.2 12.7 38.0





#27

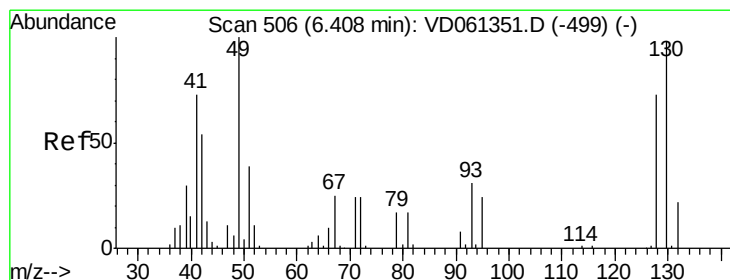
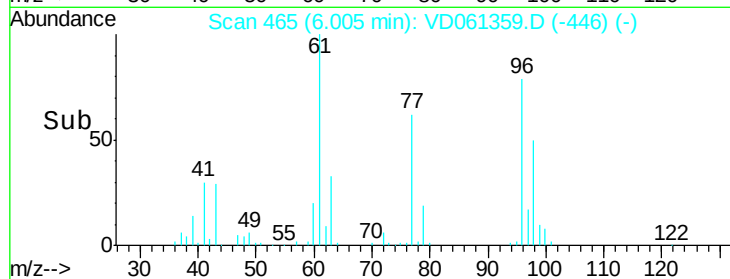
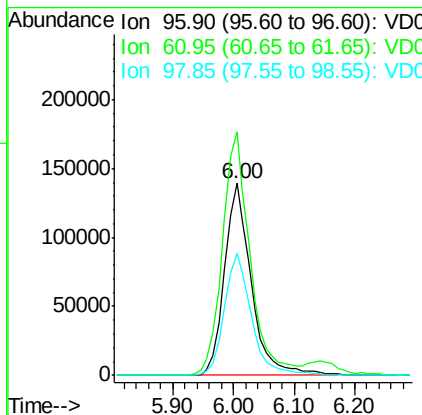
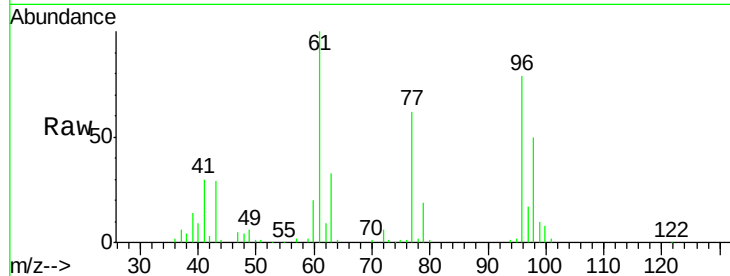
cis-1,2-Dichloroethene
Concen: 53.331 ug/l
RT: 6.00 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	427239		
61	126.7	0.0	251.6	
98	63.2	0.0	129.2	

Manual Integrations
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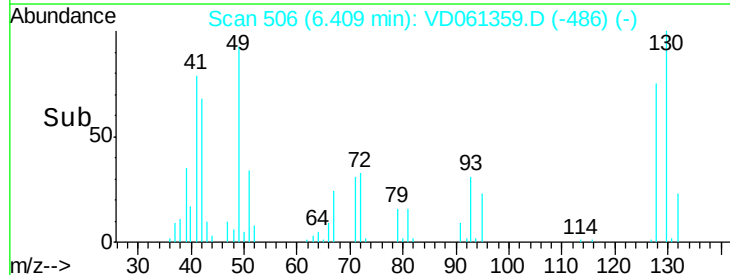
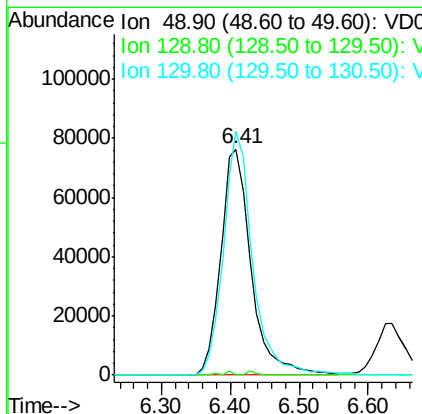
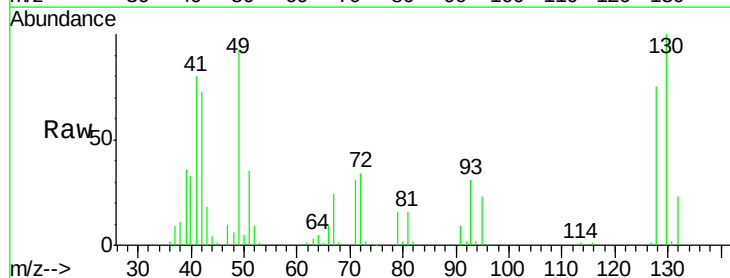
MMDadoda
3/30/2019 12:16:31 AM

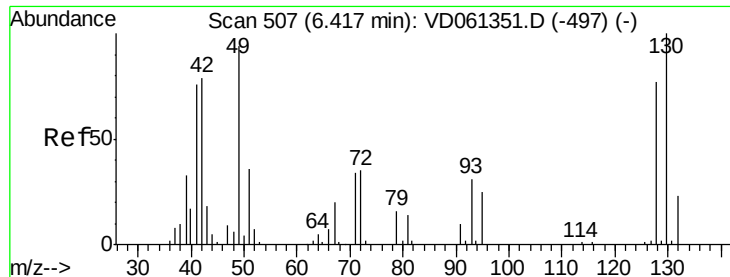


#28

Bromochloromethane
Concen: 49.066 ug/l
RT: 6.41 min Scan# 506
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	232674		
129	0.0	0.0	0.0	
130	107.9	78.4	117.6	





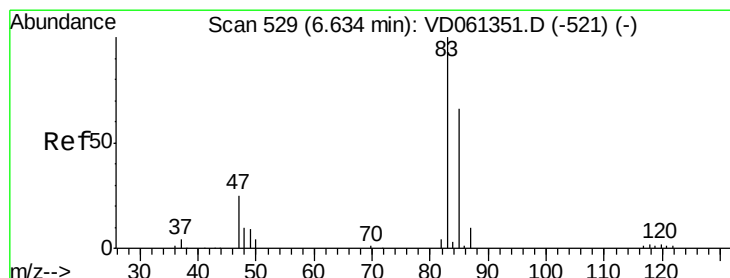
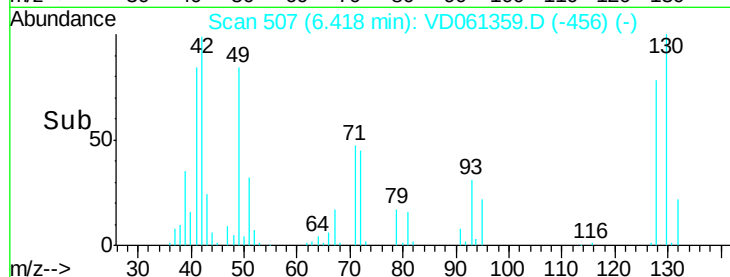
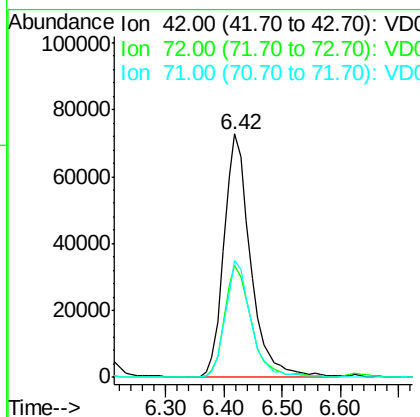
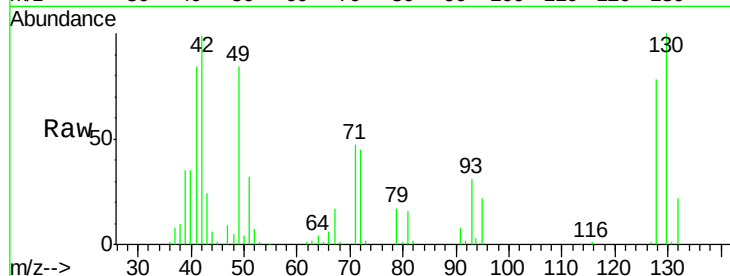
#29
Tetrahydrofuran
Concen: 273.658 ug/l
RT: 6.42 min Scan# 507
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.3	37.4	56.0
71	45.7	36.7	55.1

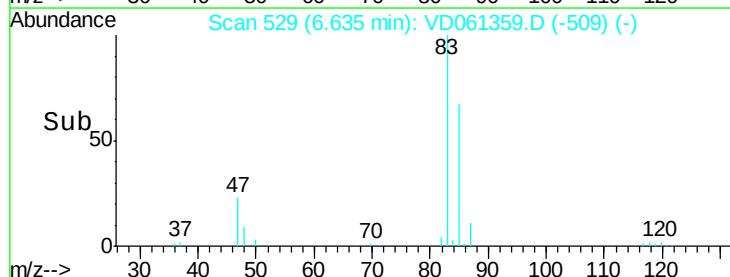
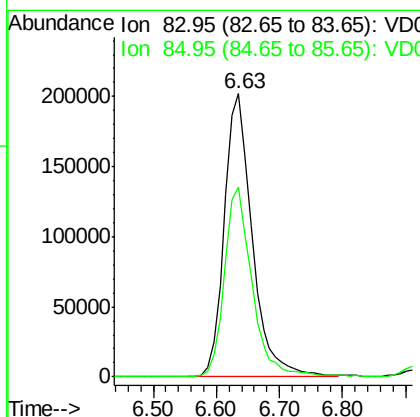
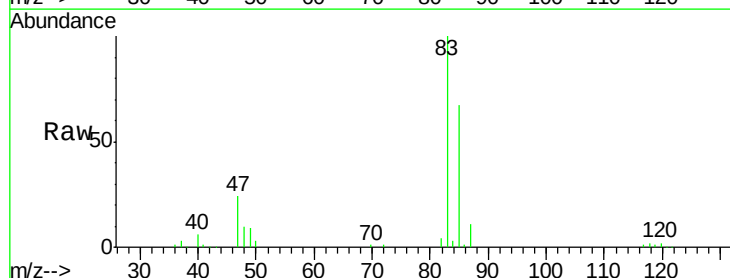
Manual Integrations
APPROVED

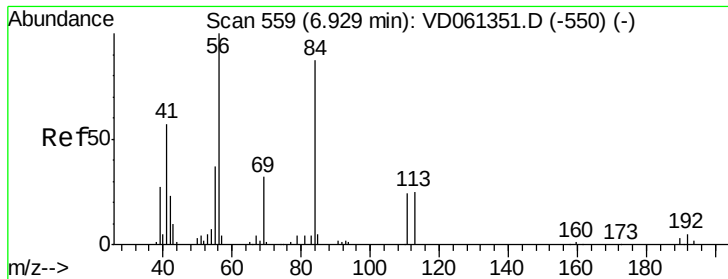
MMDadoda
3/30/2019 12:16:31 AM



#30
Chloroform
Concen: 51.091 ug/l
RT: 6.63 min Scan# 529
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.3	53.0	79.4





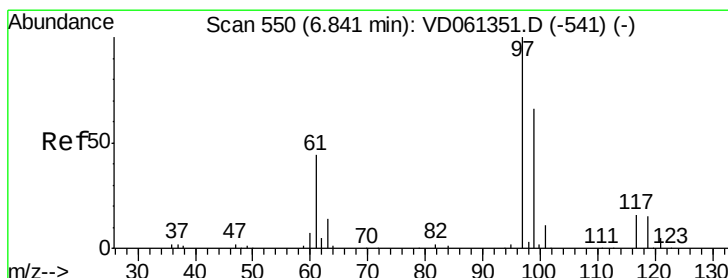
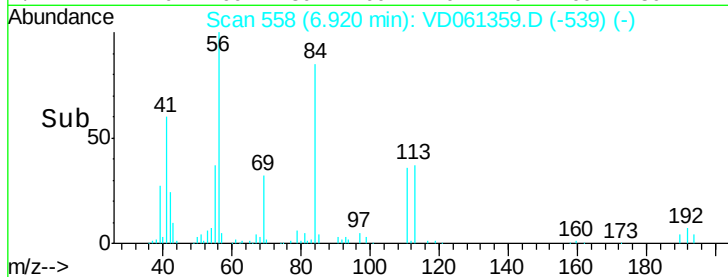
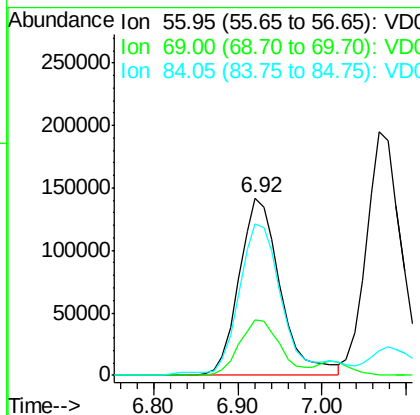
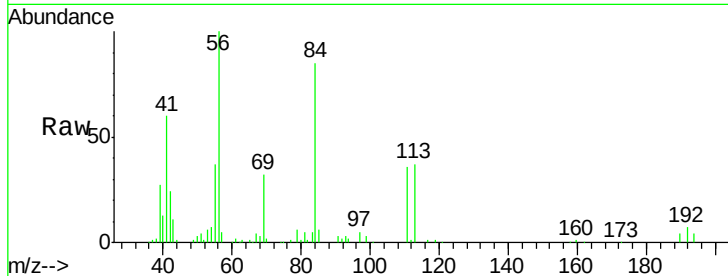
#31
Cyclohexane
Concen: 52.318 ug/l
RT: 6.92 min Scan# 558
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.6	25.7	38.5
84	85.4	70.6	105.8

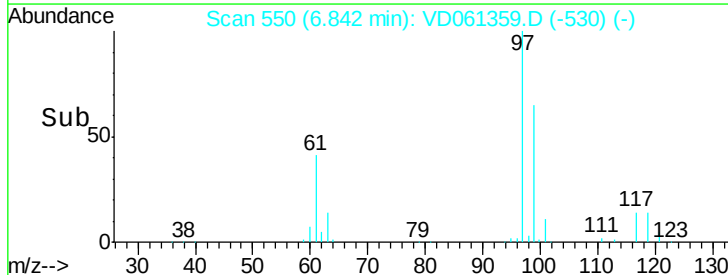
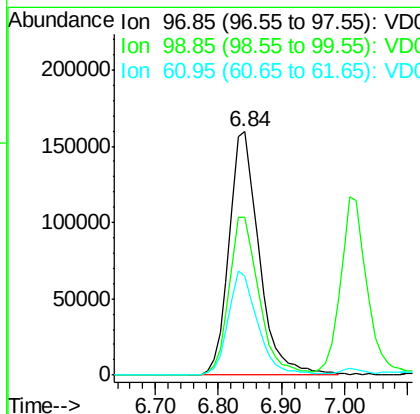
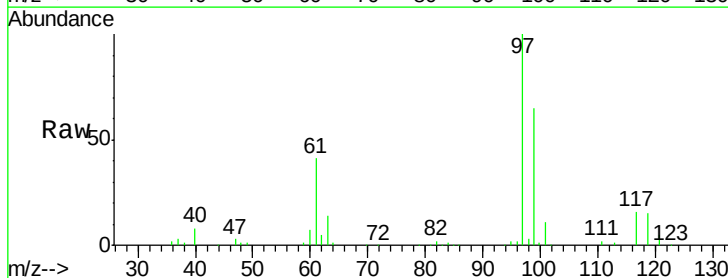
Manual Integrations
APPROVED

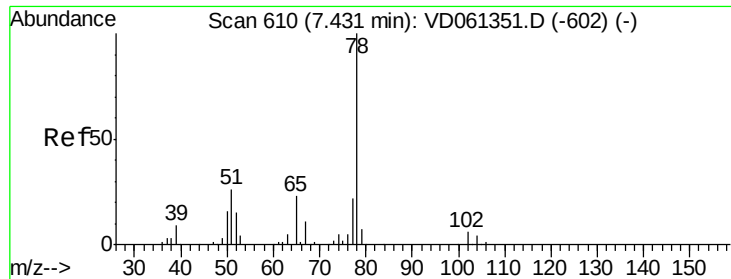
MMDadoda
3/30/2019 12:16:31 AM



#32
1,1,1-Trichloroethane
Concen: 49.095 ug/l
RT: 6.84 min Scan# 550
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	53.1	79.7
61	40.8	35.5	53.3





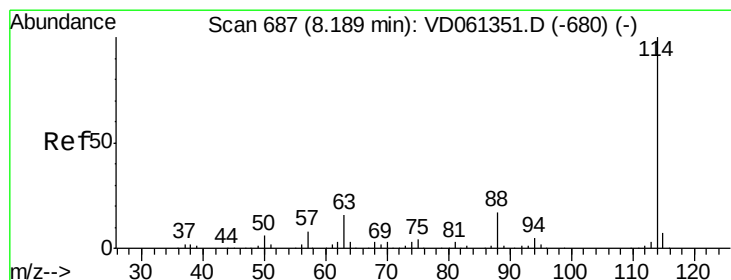
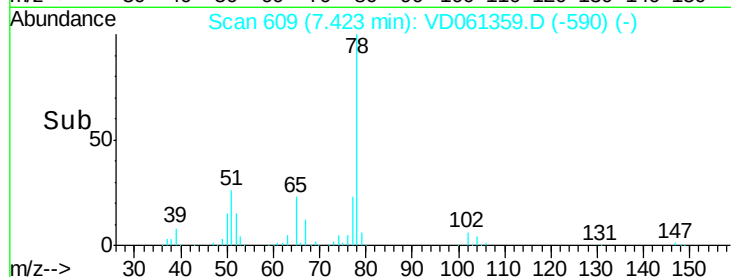
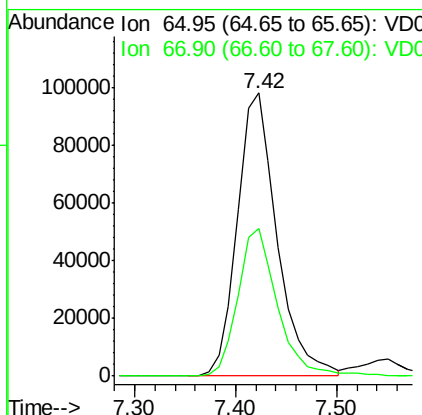
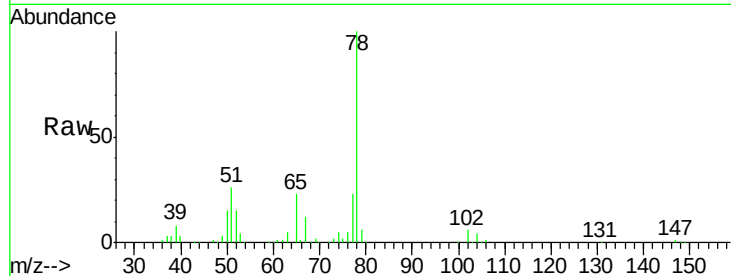
#33
 1,2-Dichloroethane-d4
 Concen: 49.095 ug/l
 RT: 7.42 min Scan# 609
 Delta R.T. -0.01 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion: 65 Resp: 269036
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 99.8

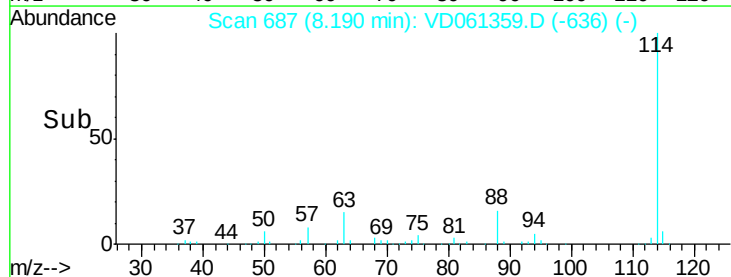
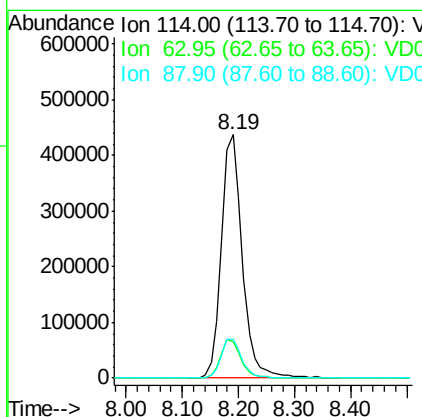
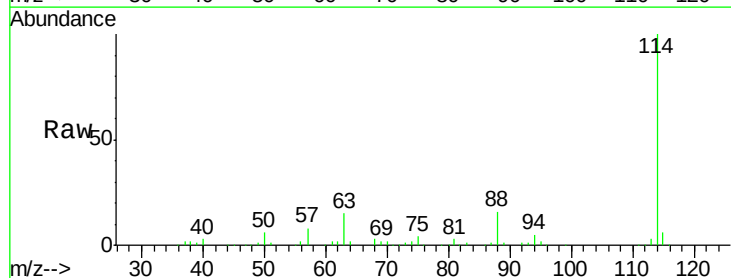
Manual Integrations
 APPROVED

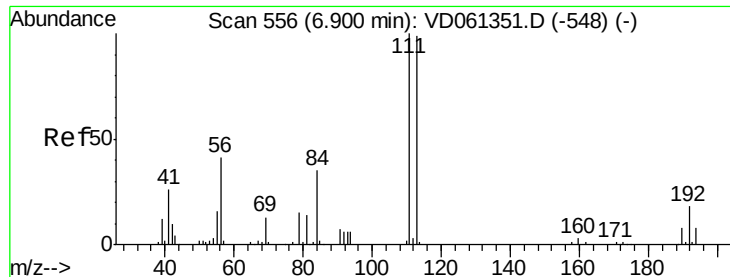
MMDadoda
 3/30/2019 12:16:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion: 114 Resp: 1139031
 Ion Ratio Lower Upper
 114 100
 63 14.9 0.0 31.6
 88 15.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.89 min Scan# 555

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

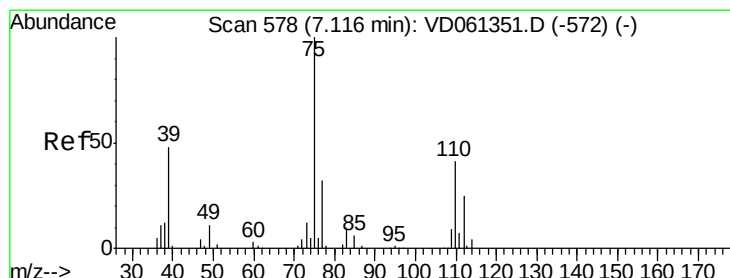
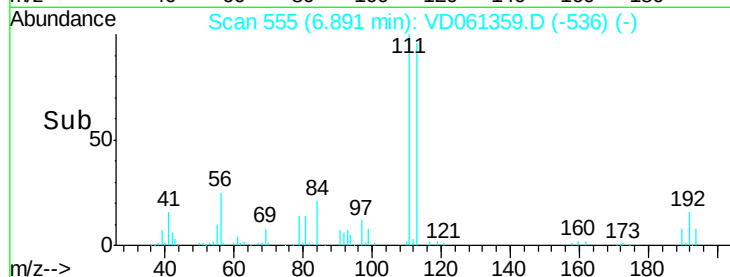
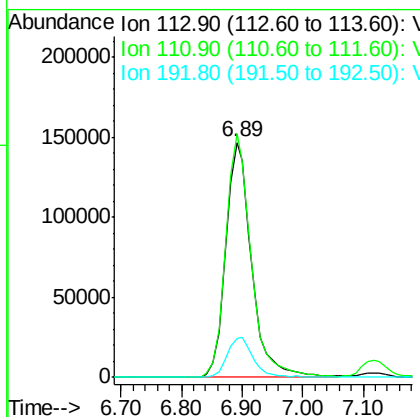
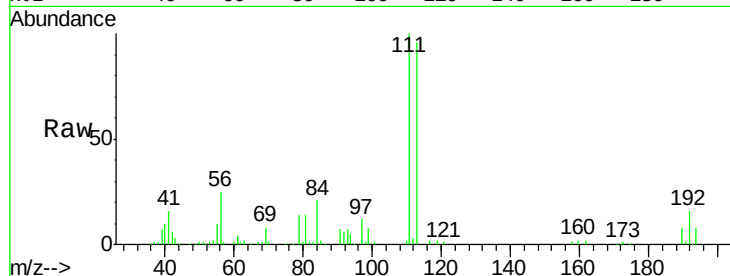
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	113	Resp:	435058
Ion Ratio	Lower	Upper	
113	100		
111	103.8	81.0	121.6
192	16.5	14.4	21.6

Manual Integrations
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MMDadoda
3/30/2019 12:16:31 AM



#36

1,1-Dichloropropene

Concen: 45.636 ug/l

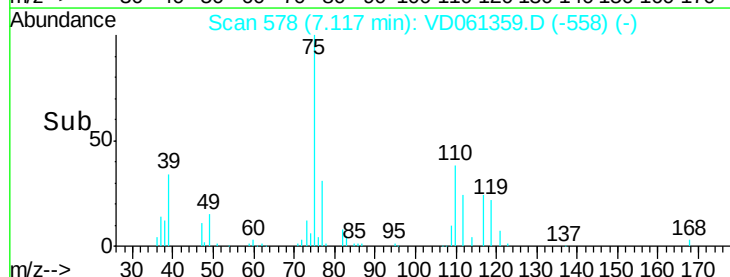
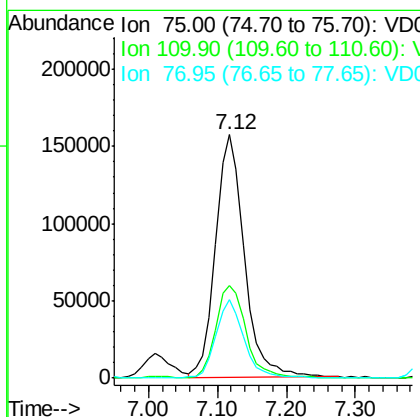
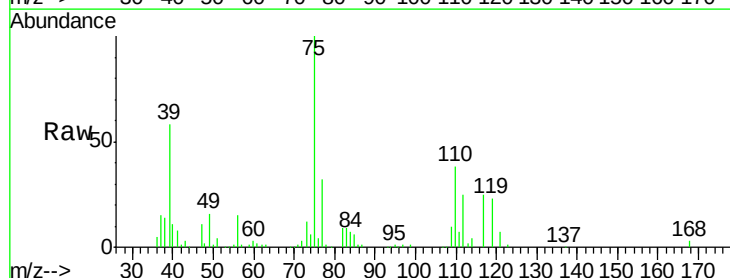
RT: 7.12 min Scan# 578

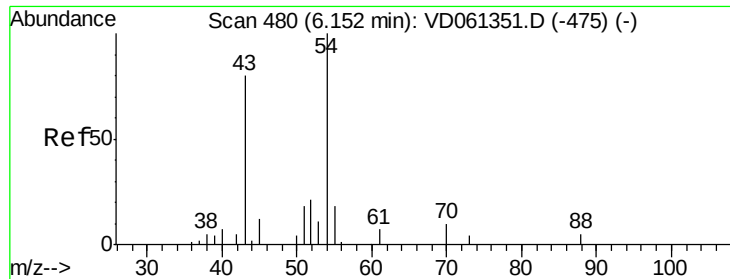
Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	75	Resp:	453674
Ion Ratio	Lower	Upper	
75	100		
110	38.3	20.4	61.3
77	32.3	24.9	37.3





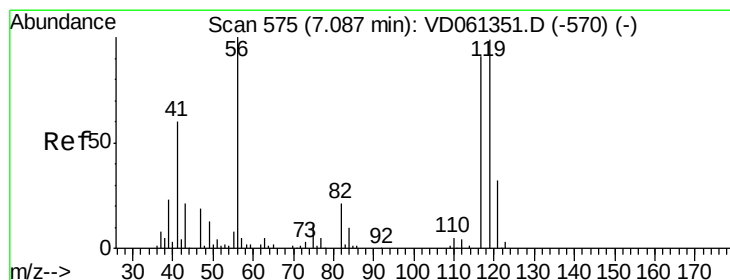
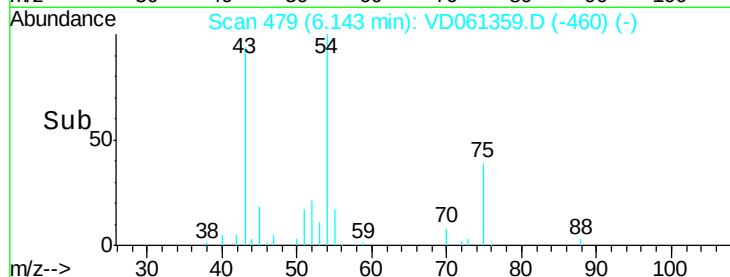
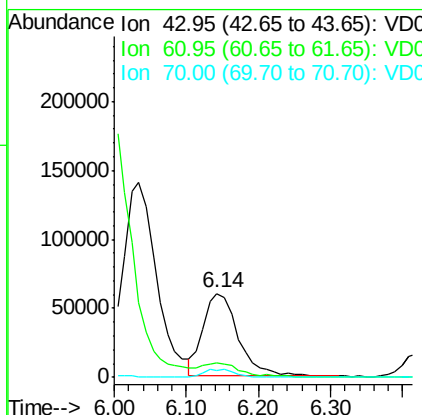
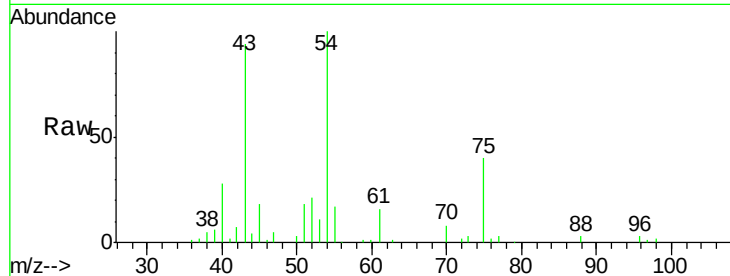
#37
Ethyl Acetate
Concen: 47.695 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.7	13.8	20.8
70	8.4	7.8	11.8

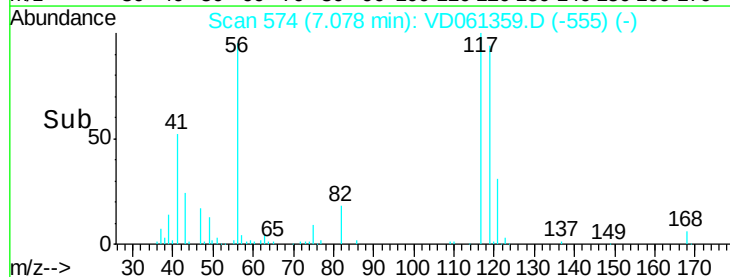
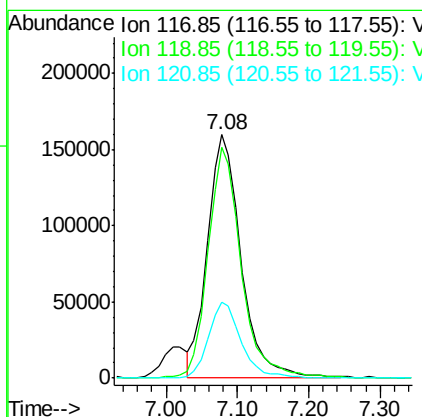
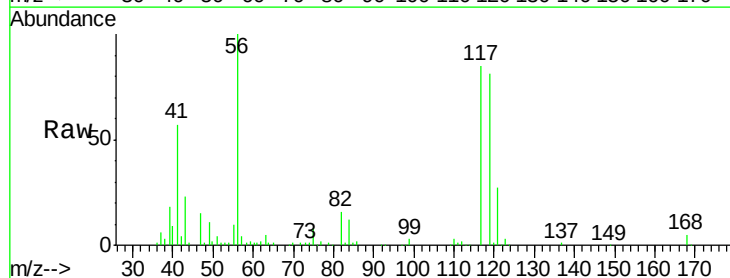
Manual Integrations
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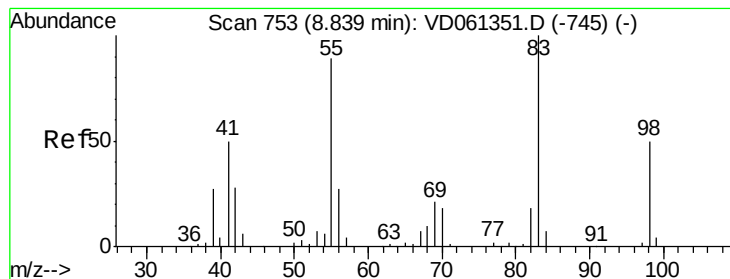
MMDadoda
3/30/2019 12:16:31 AM



#38
Carbon Tetrachloride
Concen: 46.604 ug/l m
RT: 7.08 min Scan# 574
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	80.1	120.1
121	31.1	25.6	38.4





#39

Methylcyclohexane

Concen: 42.944 ug/l

RT: 8.83 min Scan# 752

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 83 Resp: 444624

Ion Ratio Lower Upper

83 100

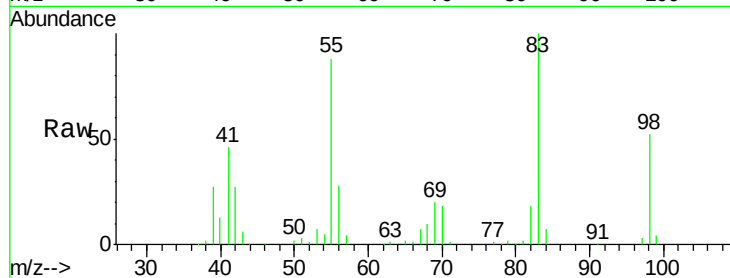
55 88.0 71.5 107.3

98 51.5 40.3 60.5

Manual Integrations
APPROVED

MMDadoda

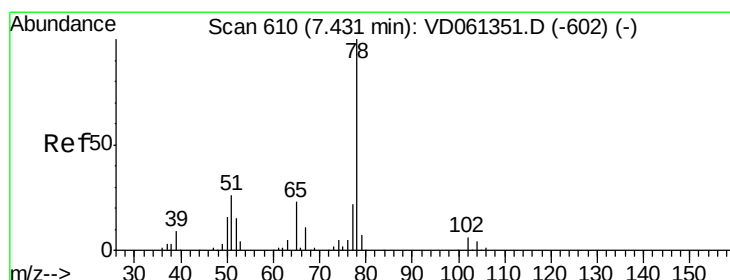
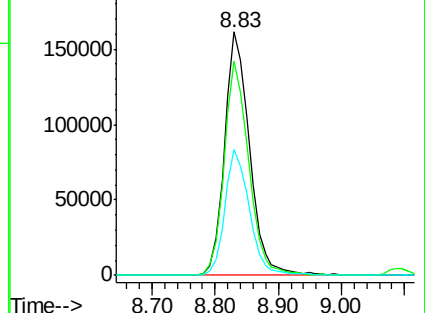
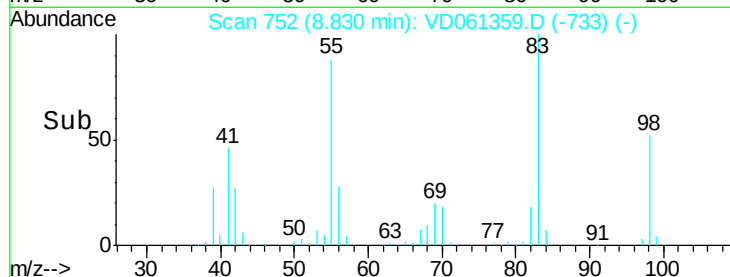
3/30/2019 12:16:31 AM



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 47.178 ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061359.D

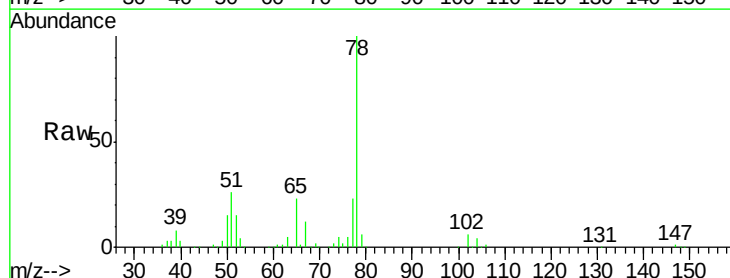
Acq: 27 Mar 2019 17:56

Tgt Ion: 78 Resp: 1177065

Ion Ratio Lower Upper

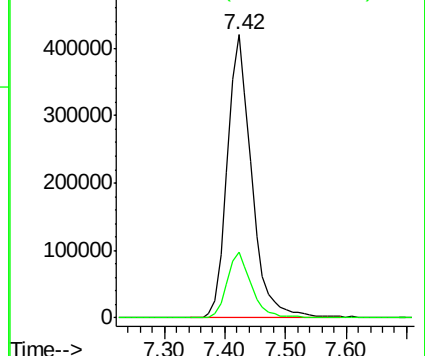
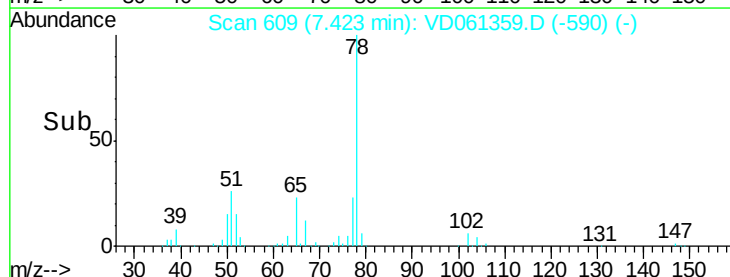
78 100

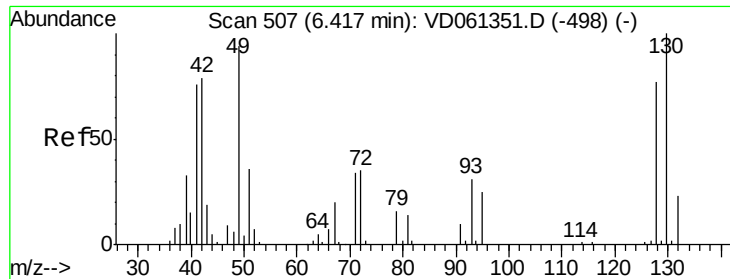
77 23.3 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





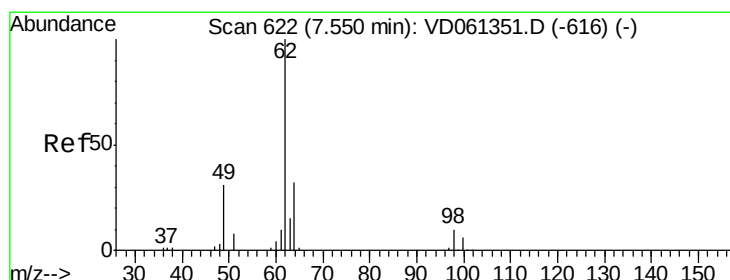
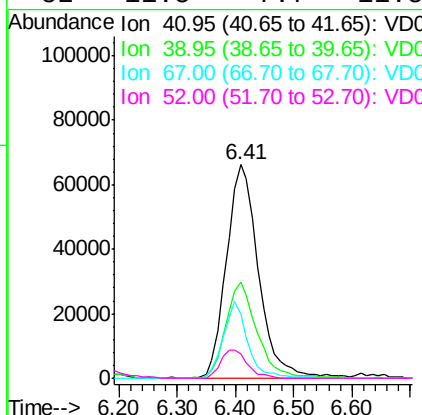
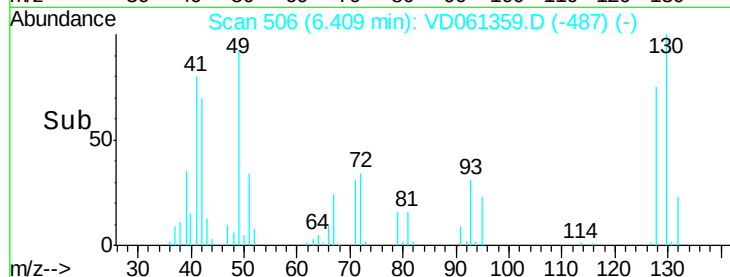
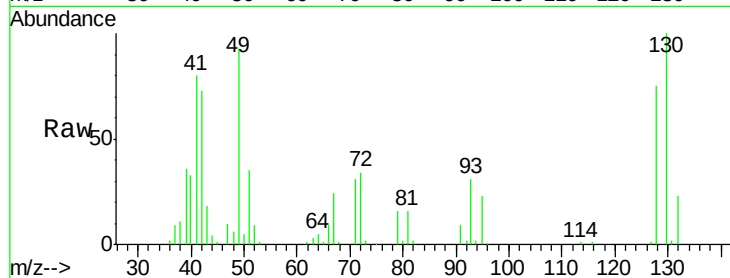
#41
Methacrylonitrile
Concen: 50.997 ug/l
RT: 6.41 min Scan# 506
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
41	100		
39	44.8	35.0	52.6
67	30.2	21.0	31.6
52	11.5	7.7	11.5

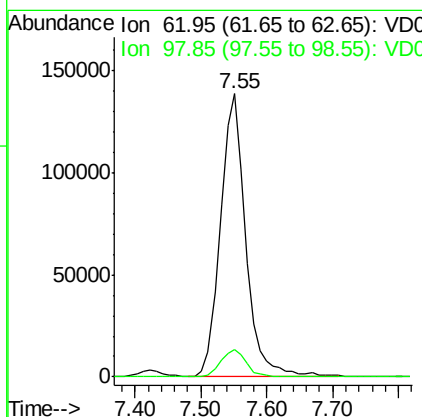
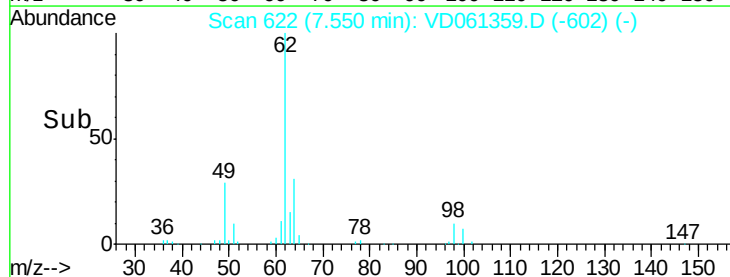
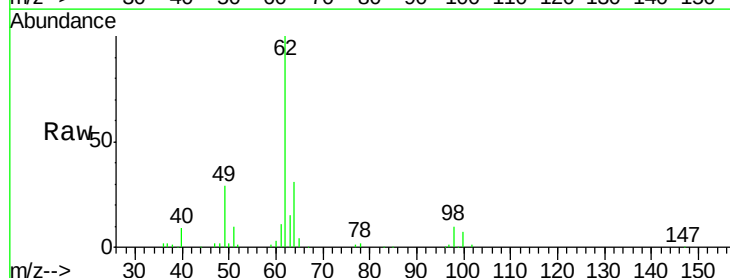
Manual Integrations
APPROVED

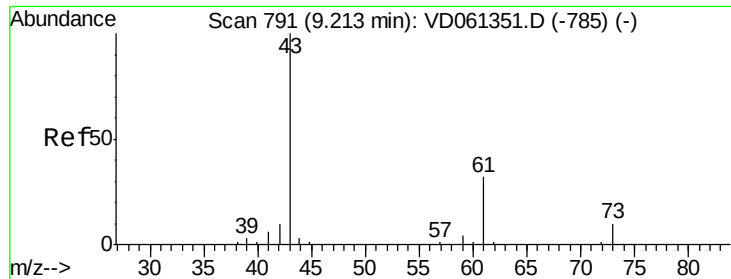
MMDadoda
3/30/2019 12:16:31 AM



#42
1,2-Dichloroethane
Concen: 49.917 ug/l
RT: 7.55 min Scan# 622
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8





#43

Isopropyl Acetate

Concen: 53.524 ug/l

RT: 9.20 min Scan# 790

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

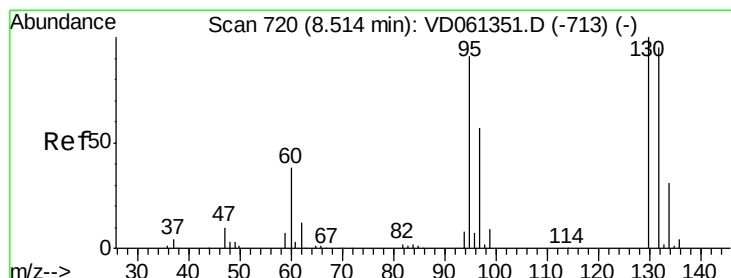
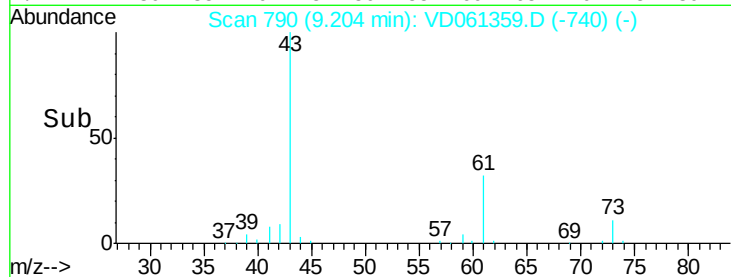
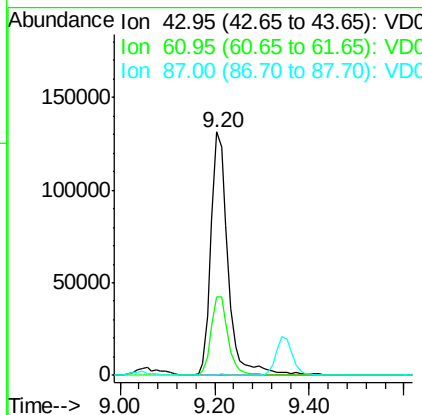
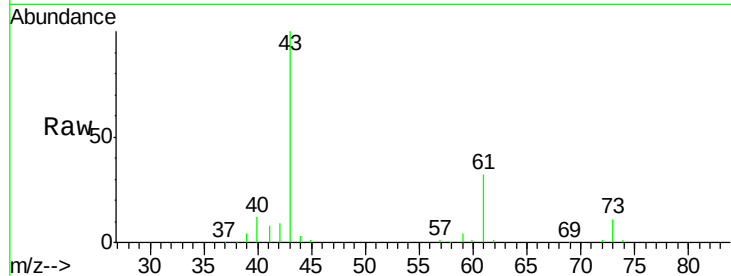
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	43	Resp:	331098
Ion Ratio	Lower	Upper	
43	100		
61	32.4	25.8	38.6
87	0.0	0.0	0.0

Manual Integrations
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#44

Trichloroethene

Concen: 46.124 ug/l

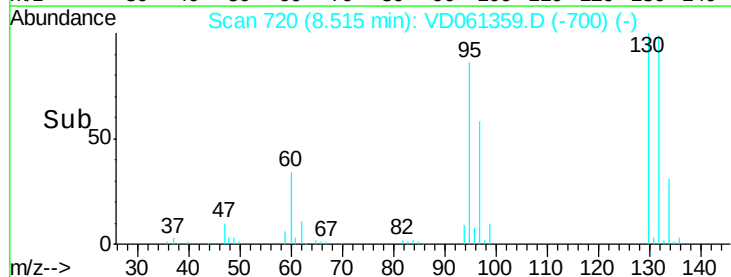
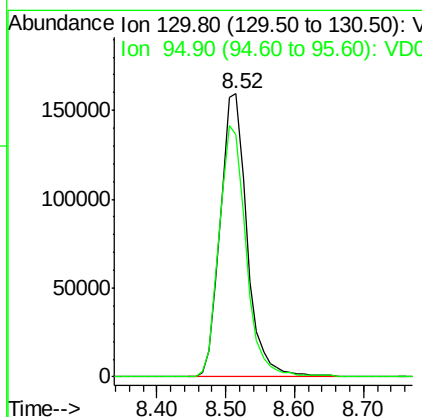
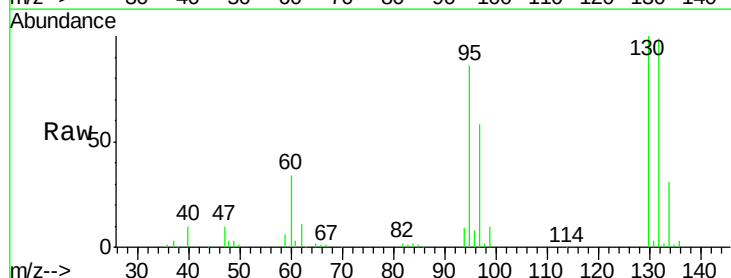
RT: 8.52 min Scan# 720

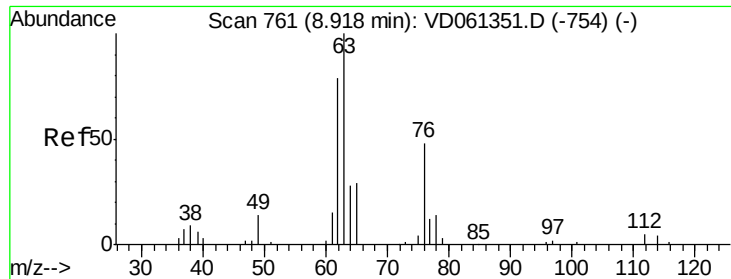
Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	130	Resp:	428254
Ion Ratio	Lower	Upper	
130	100		
95	85.7	0.0	181.4





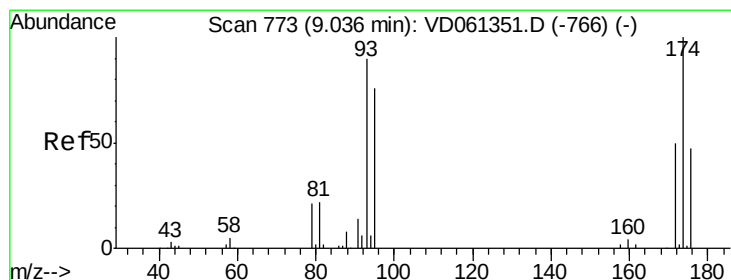
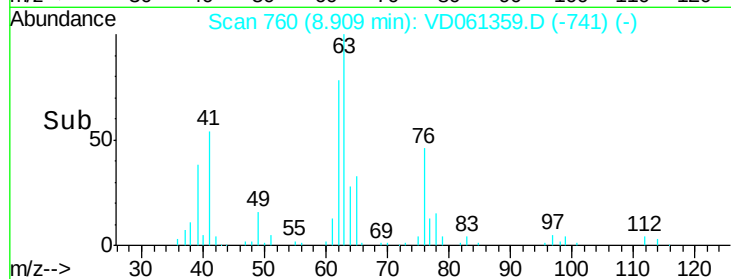
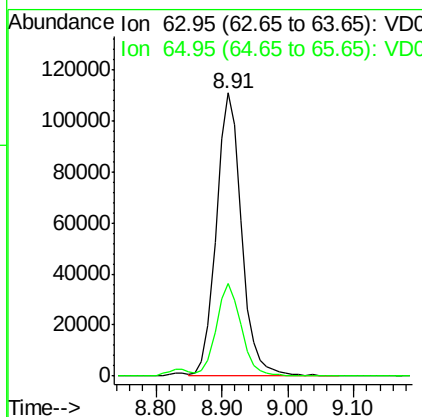
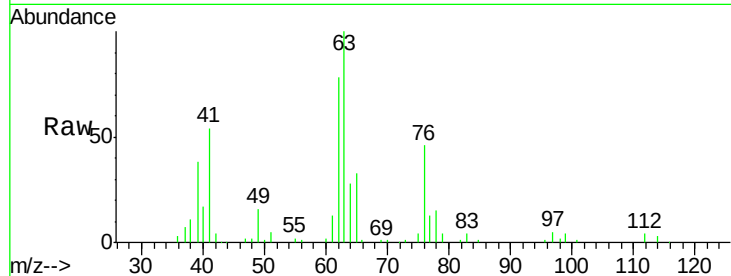
#45
1,2-Dichloropropane
Concen: 46.708 ug/l
RT: 8.91 min Scan# 760
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 63 Resp: 295499
Ion Ratio Lower Upper
63 100
65 32.5 25.0 37.4

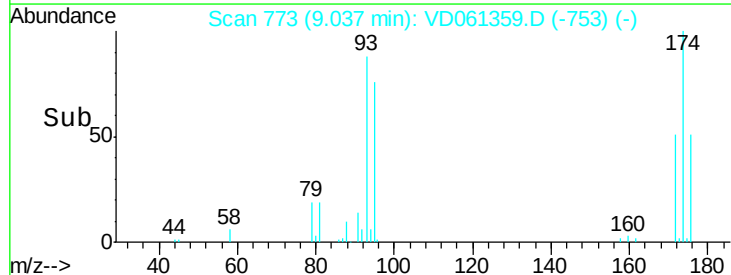
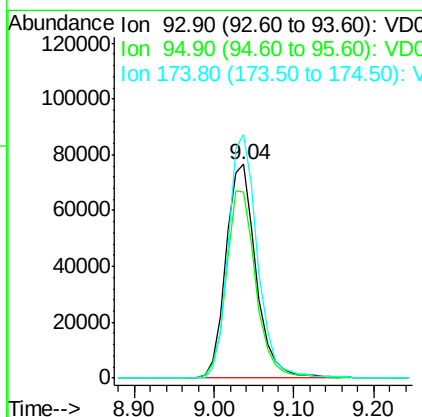
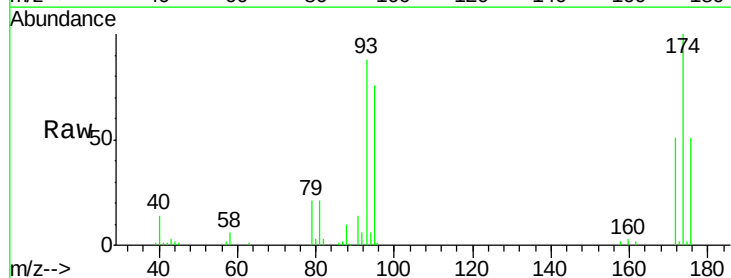
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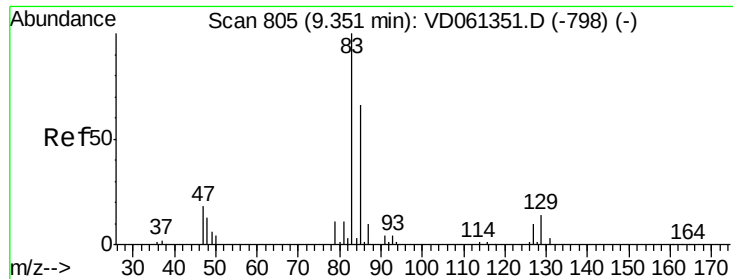
MMDadoda
3/30/2019 12:16:31 AM



#46
Dibromomethane
Concen: 47.514 ug/l
RT: 9.04 min Scan# 773
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 93 Resp: 202323
Ion Ratio Lower Upper
93 100
95 87.1 67.4 101.0
174 113.9 88.9 133.3





#47

Bromodichloromethane

Concen: 50.111 ug/l

RT: 9.34 min Scan# 804

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

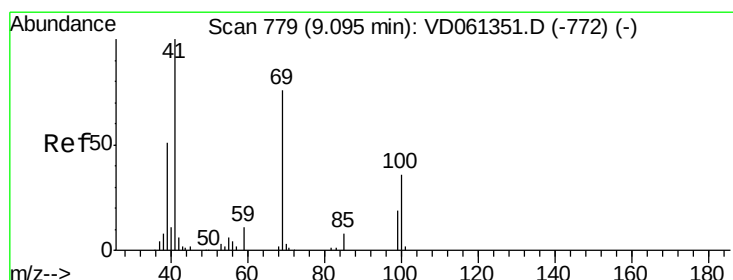
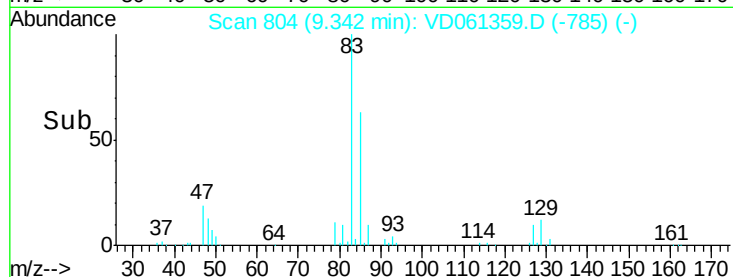
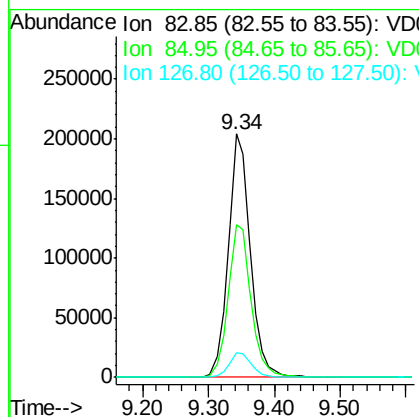
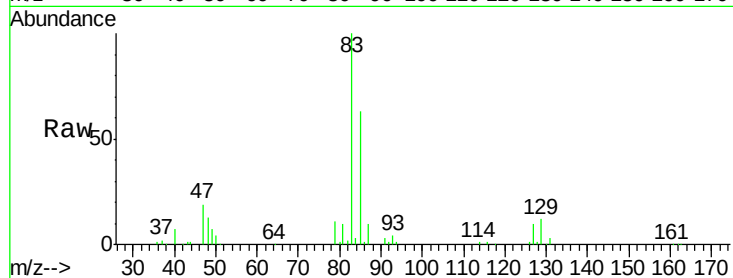
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	83	Resp:	478929
Ion	Ratio	Lower	Upper
83	100		
85	62.8	53.0	79.4
127	10.1	8.4	12.6

Manual Integrations
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MMDadoda
3/30/2019 12:16:31 AM



#48

Methyl methacrylate

Concen: 46.426 ug/l

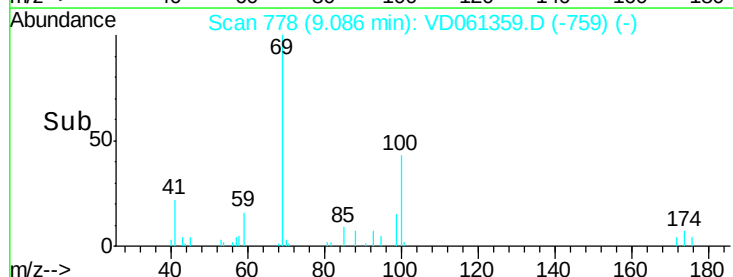
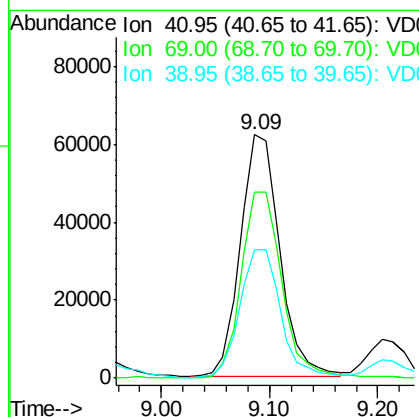
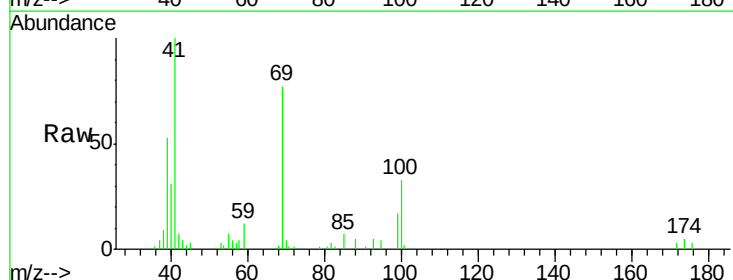
RT: 9.09 min Scan# 778

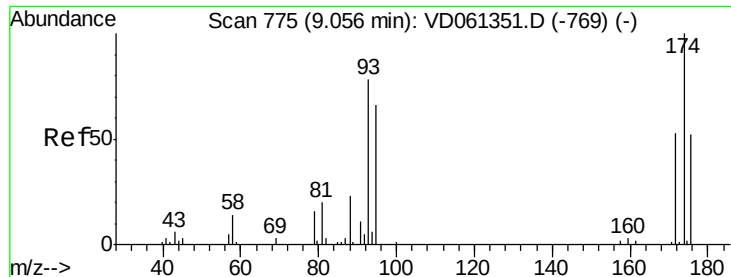
Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	41	Resp:	158499
Ion	Ratio	Lower	Upper
41	100		
69	76.7	60.2	90.4
39	52.5	41.4	62.2





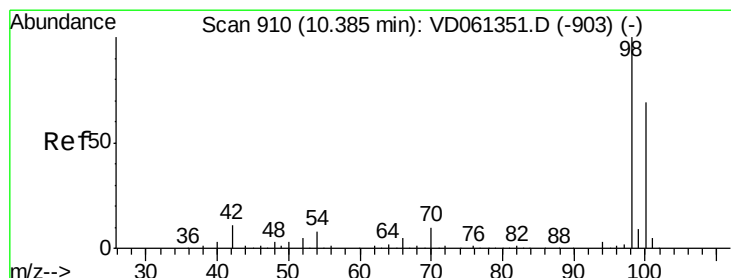
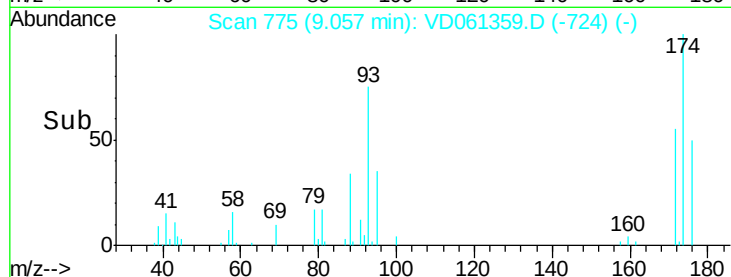
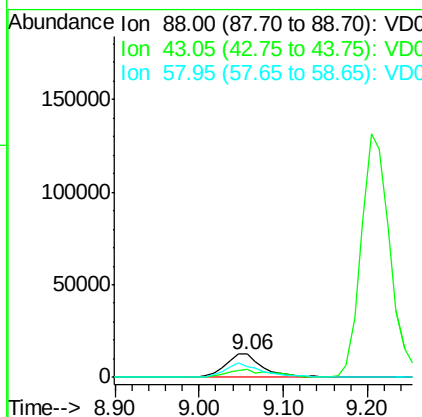
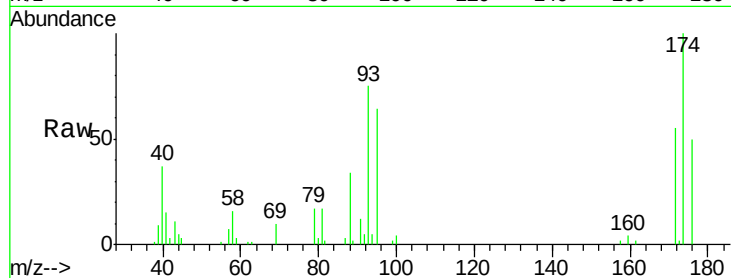
#49
1,4-Dioxane
Concen: 1014.742 ug/l
RT: 9.06 min Scan# 775
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	38211		
43	33.0	23.3	34.9	
58	47.3	50.8	76.2	

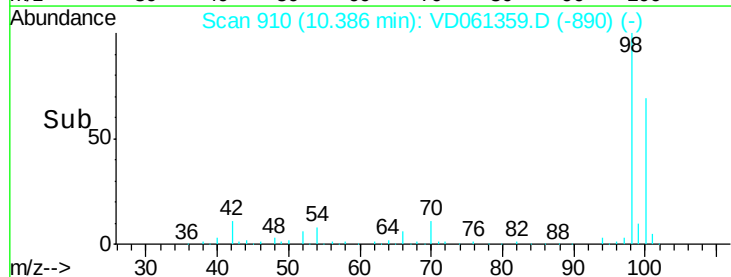
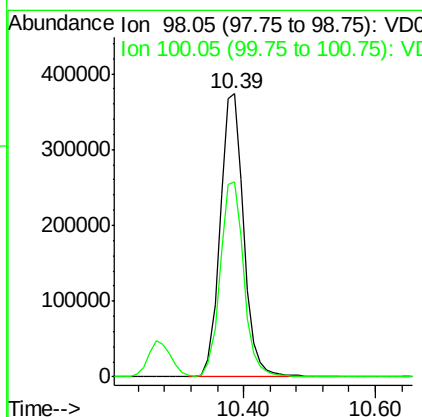
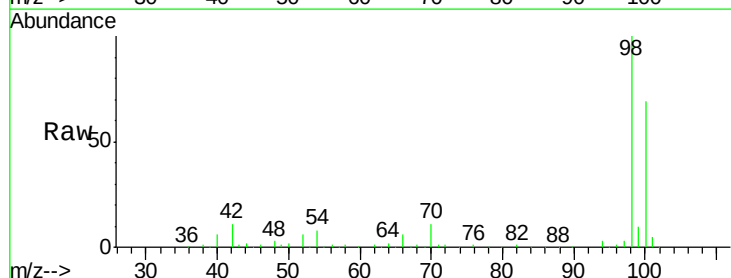
Manual Integrations
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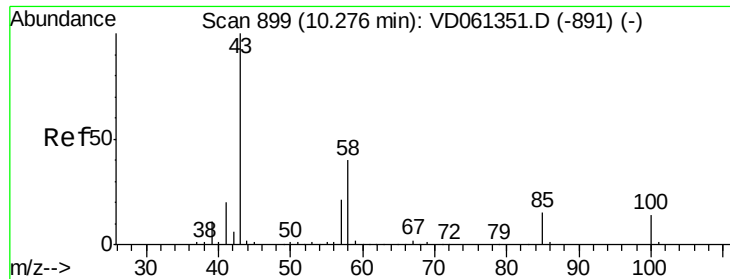
MMDadoda
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#50
Toluene-d8
Concen: 1014.742 ug/l
RT: 10.39 min Scan# 910
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	928135		
100	68.7	56.2	84.2	





#51

4-Methyl-2-Pentanone

Concen: 240.784 ug/l

RT: 10.27 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 43 Resp: 906194

Ion Ratio Lower Upper

43 100

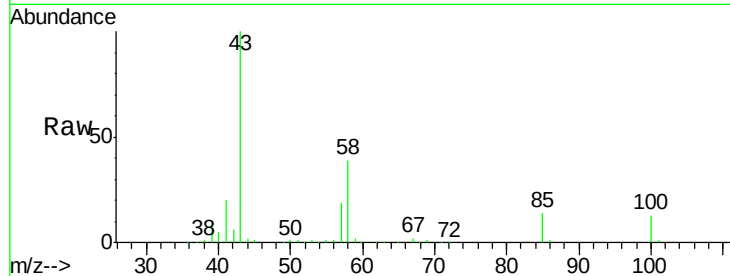
58 38.9 31.8 47.8

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.27

400000

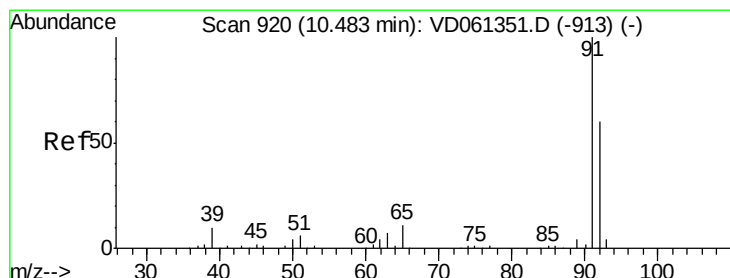
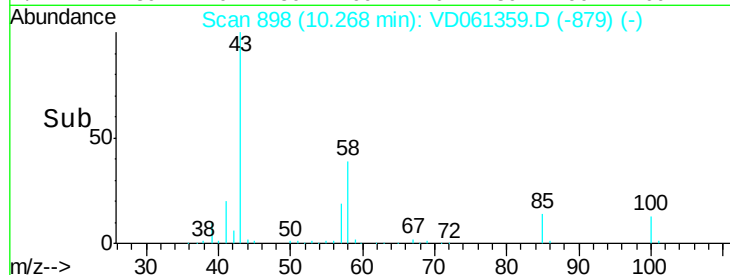
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 47.074 ug/l

RT: 10.48 min Scan# 920

Delta R.T. 0.00 min

Lab File: VD061359.D

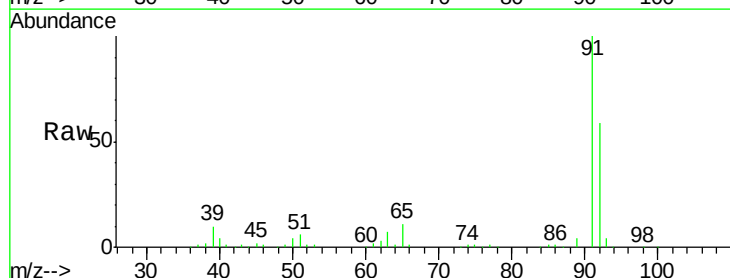
Acq: 27 Mar 2019 17:56

Tgt Ion: 92 Resp: 716523

Ion Ratio Lower Upper

92 100

91 168.6 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.48

500000

400000

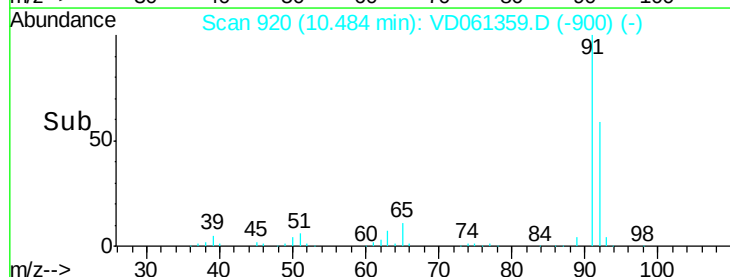
300000

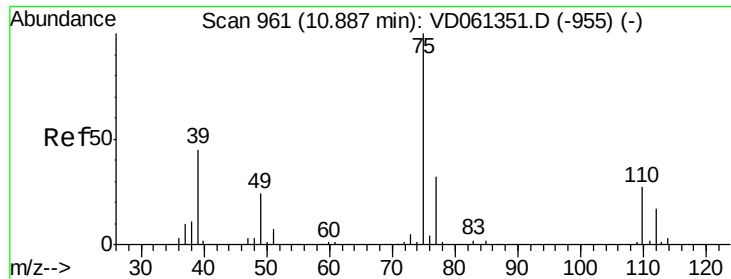
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 50.263 ug/l

RT: 10.89 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 75 Resp: 436453

Ion Ratio Lower Upper

75 100

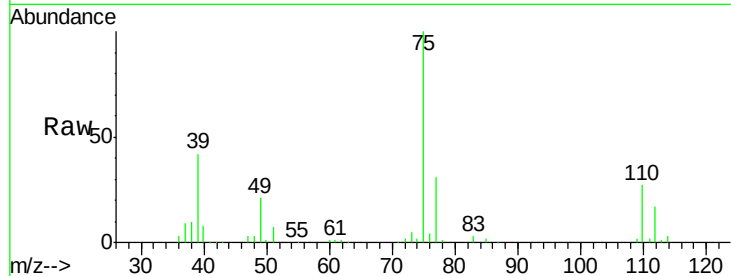
77 30.9 25.4 38.2

Manual Integrations

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

250000

200000

150000

100000

50000

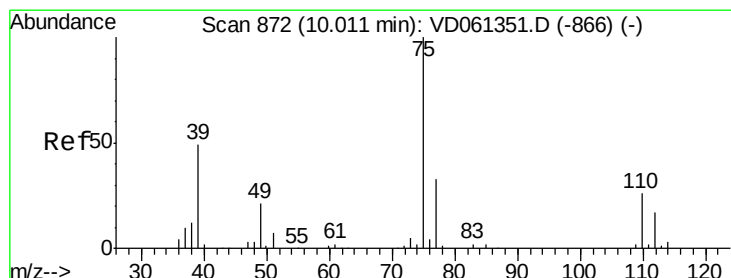
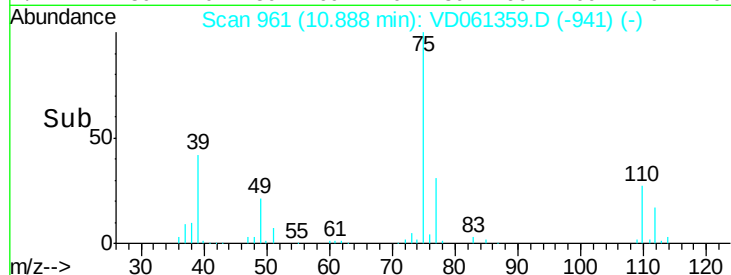
0

10.80

10.90

11.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 50.672 ug/l

RT: 10.01 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

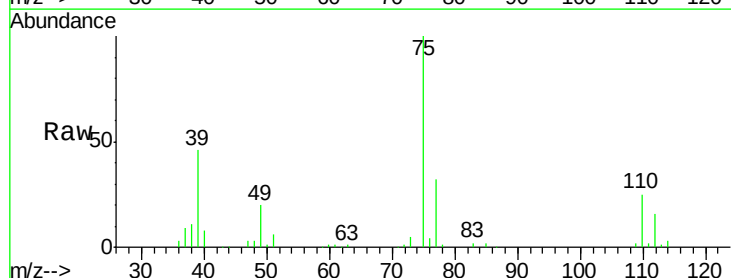
Tgt Ion: 75 Resp: 535772

Ion Ratio Lower Upper

75 100

77 31.8 26.2 39.4

39 46.5 39.4 59.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

300000

250000

200000

150000

100000

50000

0

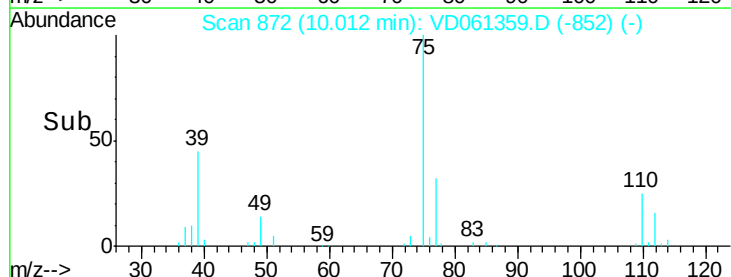
9.90

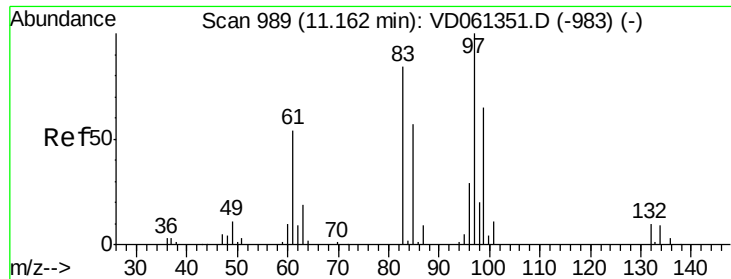
10.00

10.10

10.20

Time-->





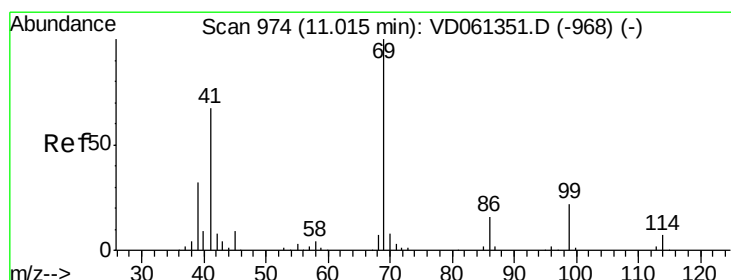
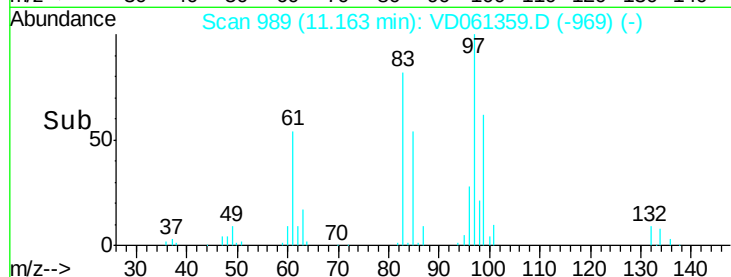
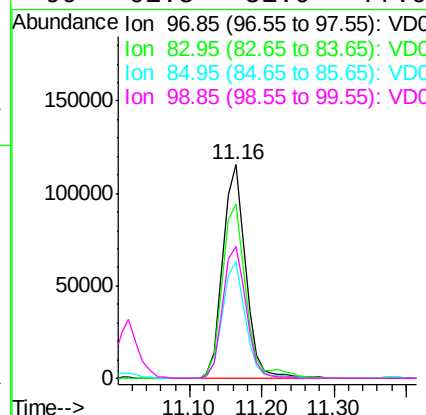
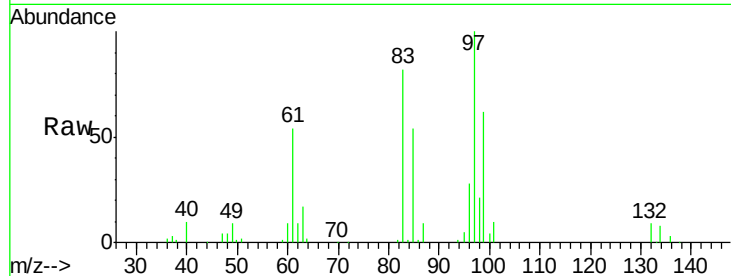
#55
 1,1,2-Trichloroethane
 Concen: 47.532 ug/l
 RT: 11.16 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	253019		
83	81.6	67.0	100.6	
85	54.5	45.4	68.2	
99	61.5	51.9	77.9	

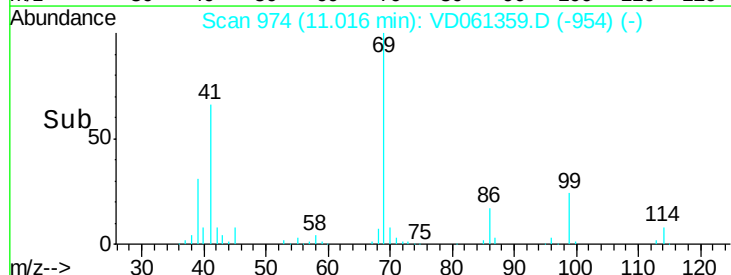
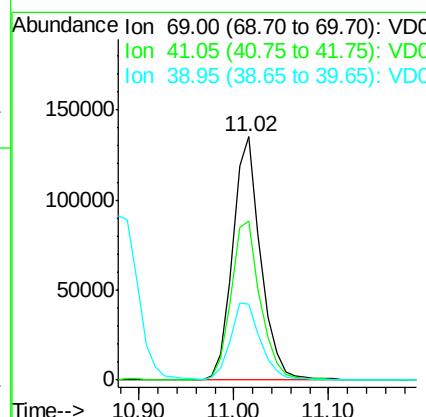
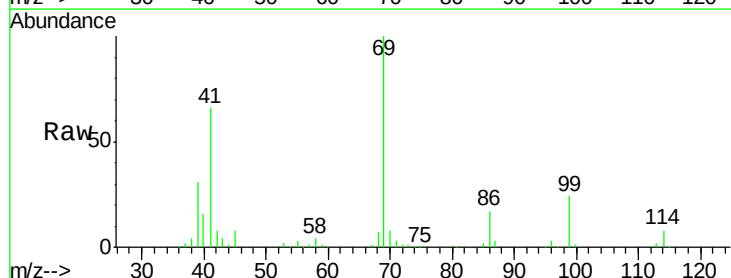
Manual Integrations
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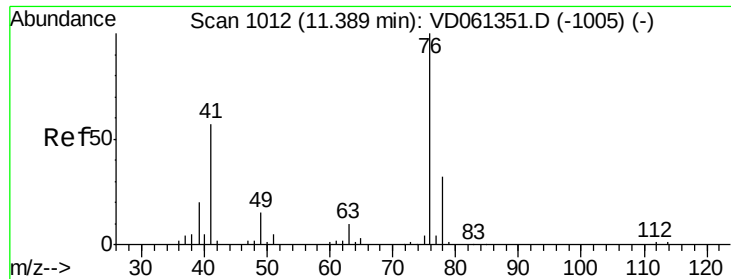
MMDadoda
 3/30/2019 12:16:31 AM



#56
 Ethyl methacrylate
 Concen: 48.284 ug/l
 RT: 11.02 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	276111		
41	65.5	53.8	80.6	
39	31.1	26.4	39.6	





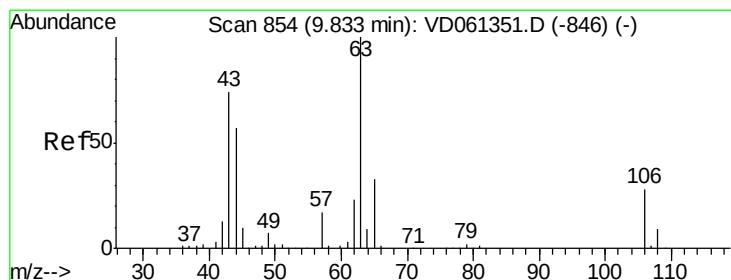
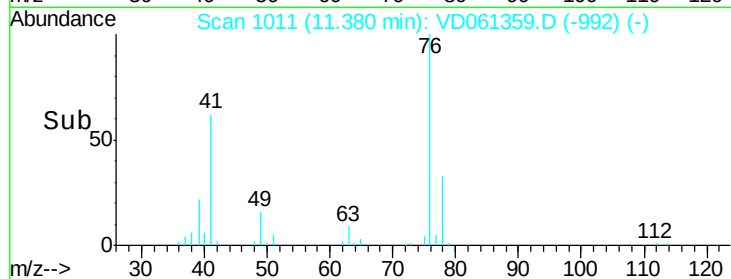
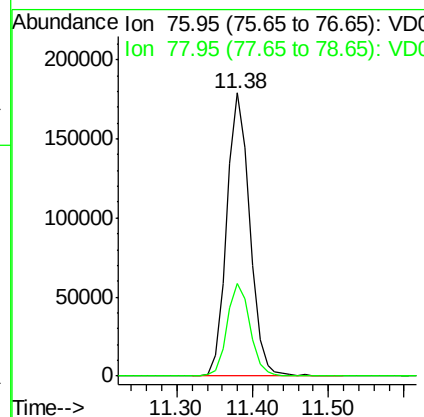
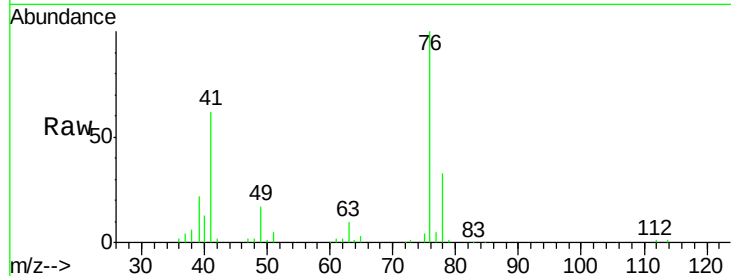
#57
 1,3-Dichloropropane
 Concen: 48.204 ug/l
 RT: 11.38 min Scan# 1011
 Delta R.T. -0.01 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion: 76 Resp: 377151
 Ion Ratio Lower Upper
 76 100
 78 32.8 25.4 38.0

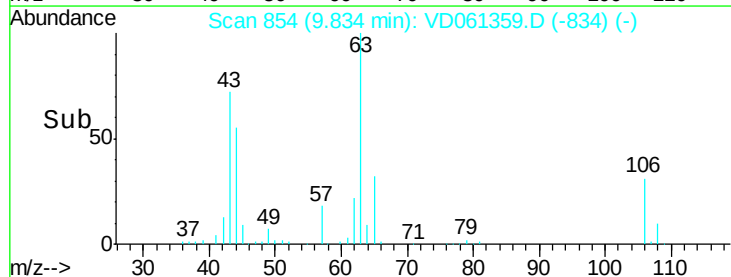
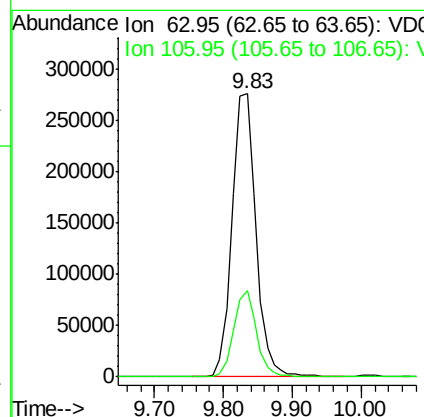
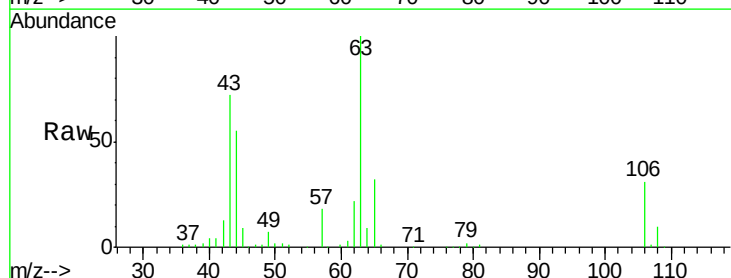
Manual Integrations
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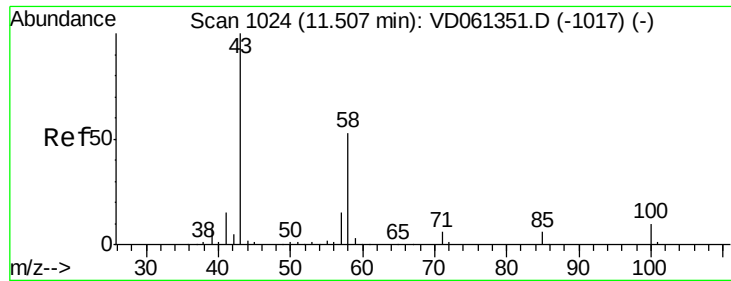
MMDadoda
 3/30/2019 12:16:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 238.481 ug/l
 RT: 9.83 min Scan# 854
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion: 63 Resp: 664141
 Ion Ratio Lower Upper
 63 100
 106 30.6 22.4 33.6





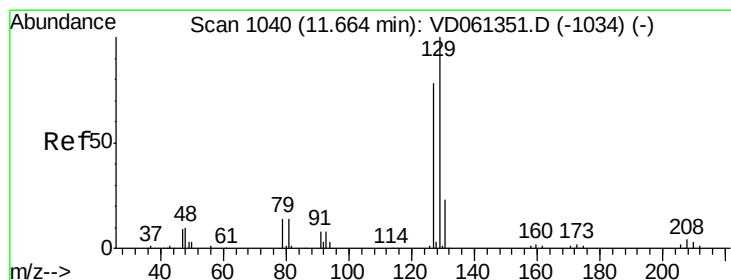
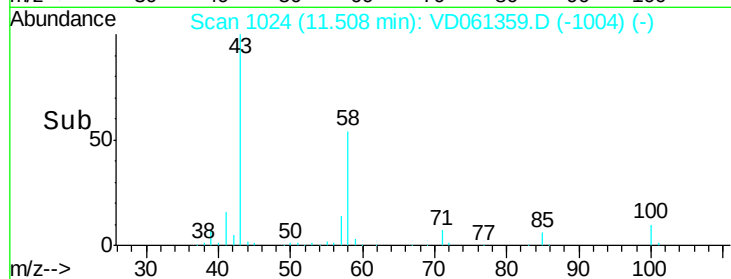
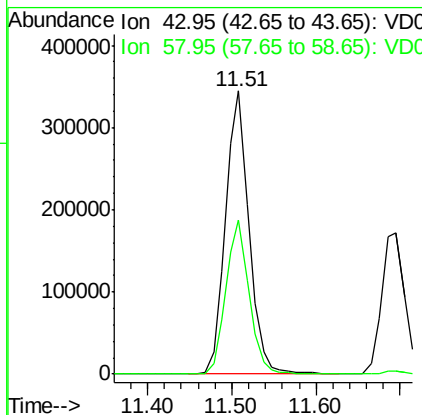
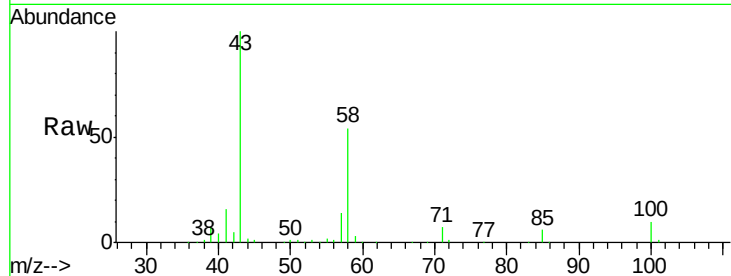
#59
2-Hexanone
Concen: 244.023 ug/l
RT: 11.51 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 43 Resp: 665397
Ion Ratio Lower Upper
43 100
58 54.4 26.3 78.9

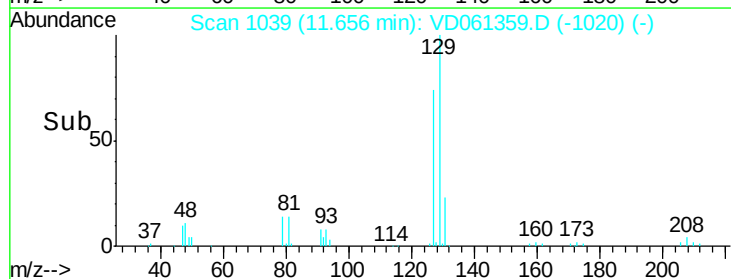
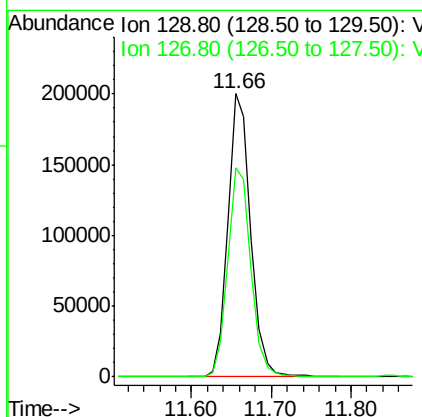
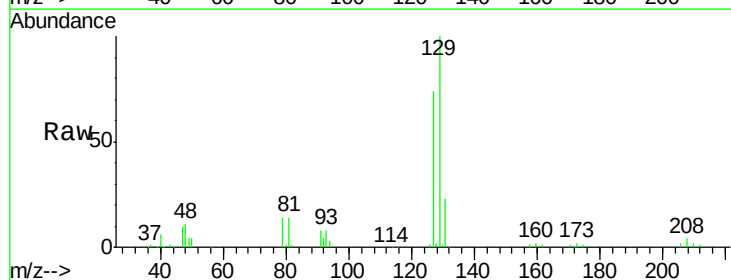
Manual Integrations
APPROVED

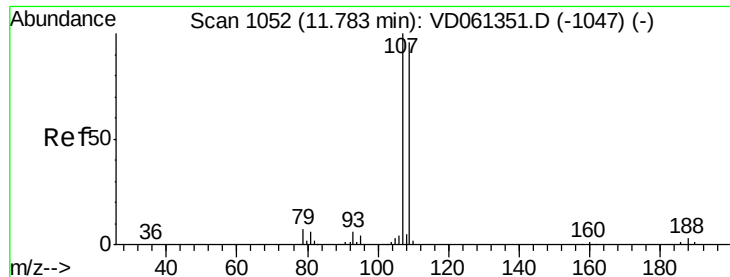
MMDadoda
3/30/2019 12:16:31 AM



#60
Dibromochloromethane
Concen: 49.095 ug/l
RT: 11.66 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 129 Resp: 402886
Ion Ratio Lower Upper
129 100
127 74.0 39.0 116.9





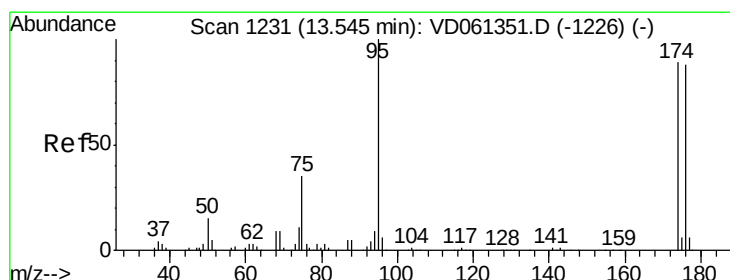
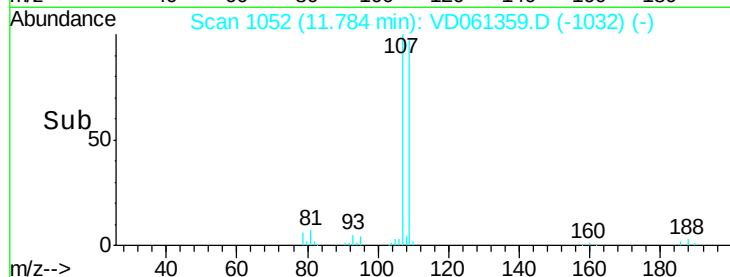
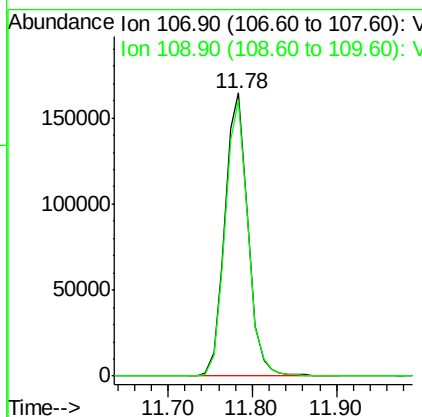
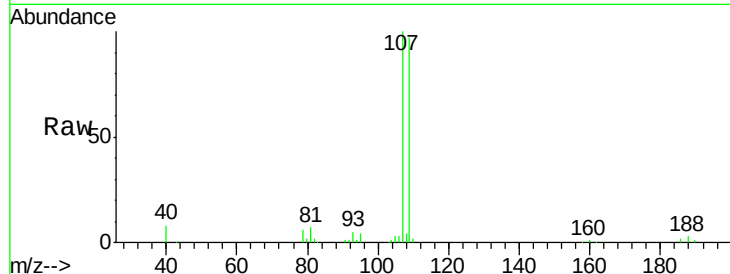
#61
 1,2-Dibromoethane
 Concen: 50.611 ug/l
 RT: 11.78 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion: 107 Resp: 311961
 Ion Ratio Lower Upper
 107 100
 109 97.3 76.6 114.8

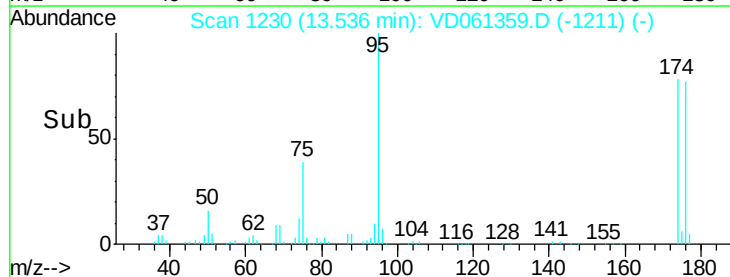
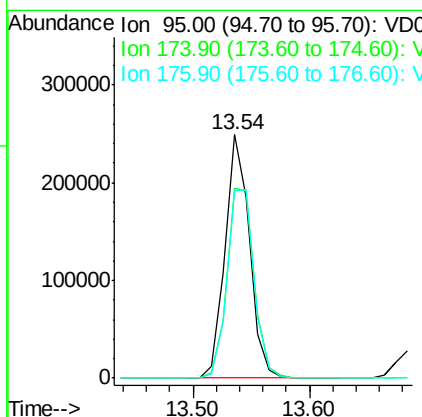
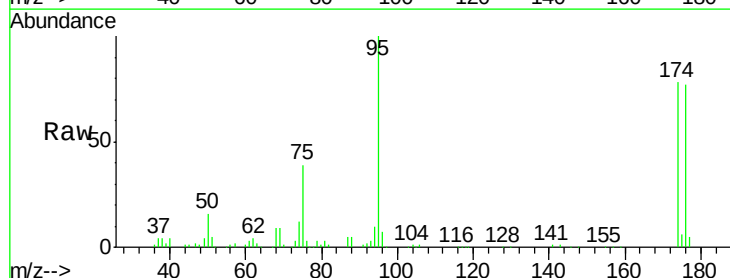
Manual Integrations
 APPROVED

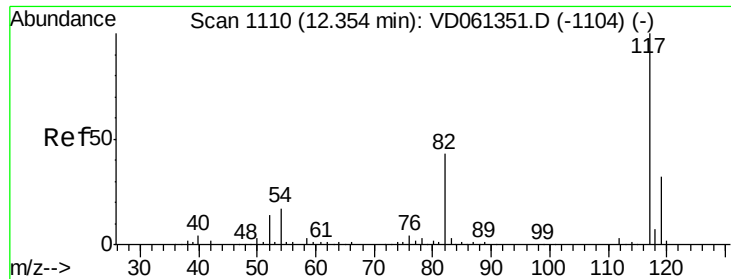
MMDadoda
 3/30/2019 12:16:31 AM



#62
 4-Bromofluorobenzene
 Concen: 50.611 ug/l
 RT: 13.54 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion: 95 Resp: 361123
 Ion Ratio Lower Upper
 95 100
 174 77.9 0.0 178.0
 176 76.8 0.0 175.0





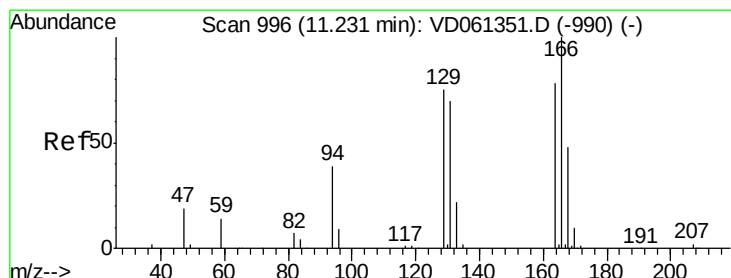
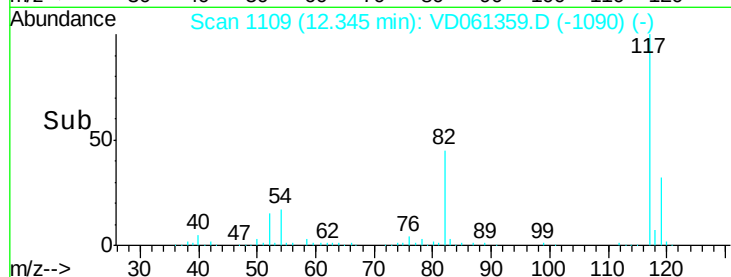
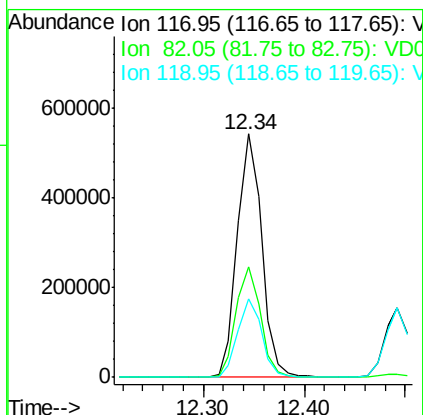
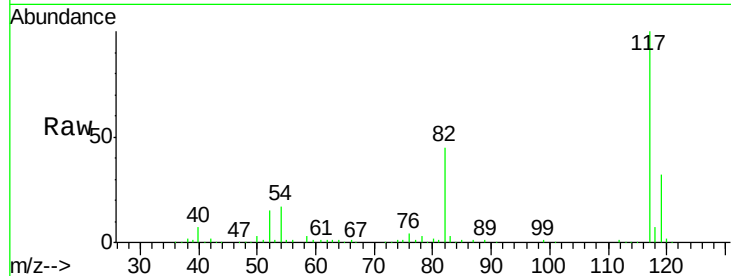
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	920181		
82	45.1	34.4	51.6	
119	32.4	25.8	38.6	

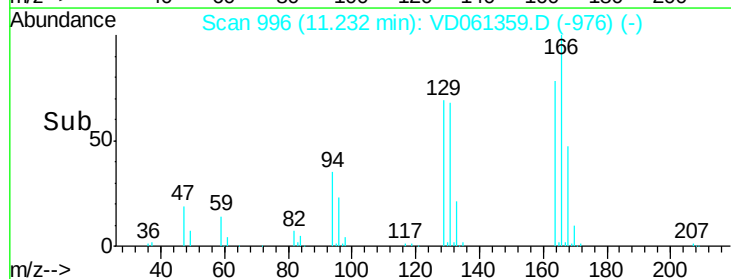
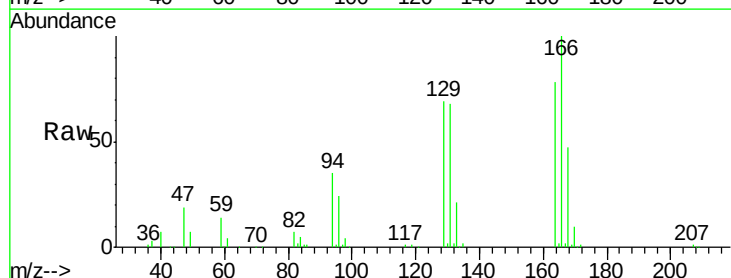
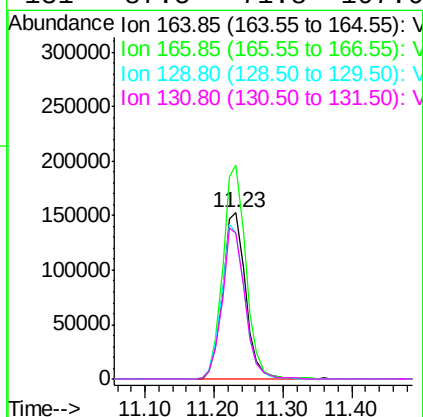
Manual Integrations
APPROVED

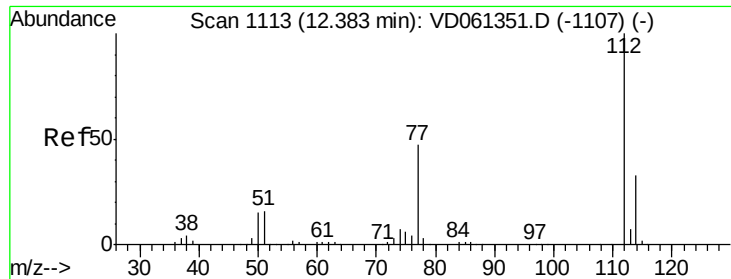
MMDadoda
3/30/2019 12:16:31 AM



#64
Tetrachloroethene
Concen: 49.004 ug/l
RT: 11.23 min Scan# 996
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	353896		
166	128.4	102.4	153.6	
129	88.1	76.8	115.2	
131	87.5	71.8	107.6	





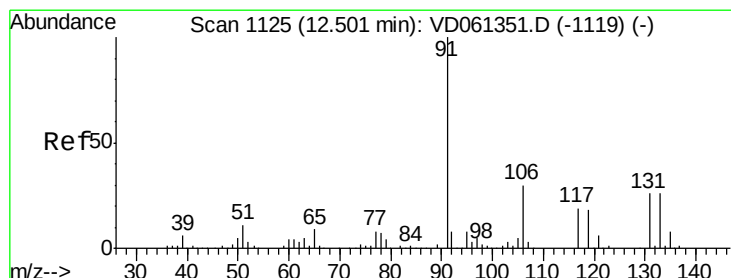
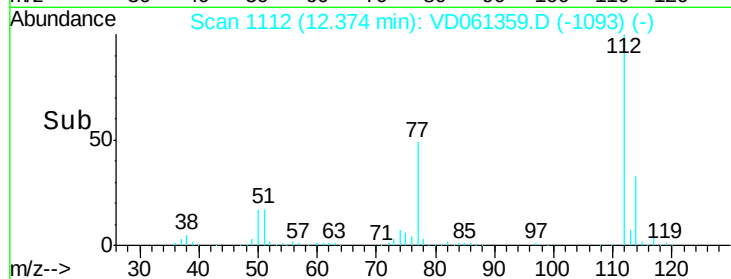
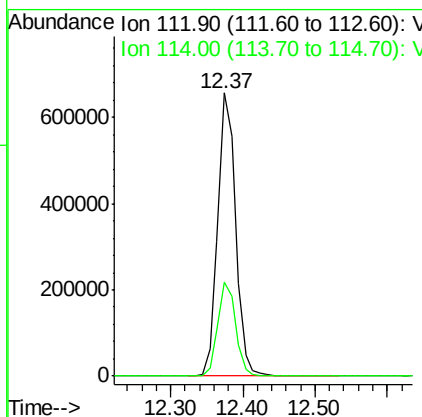
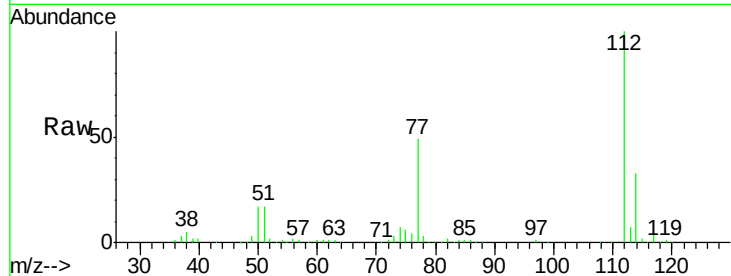
#65
Chlorobenzene
Concen: 59.342 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion:112 Resp: 1115948
Ion Ratio Lower Upper
112 100
114 33.0 26.6 39.8

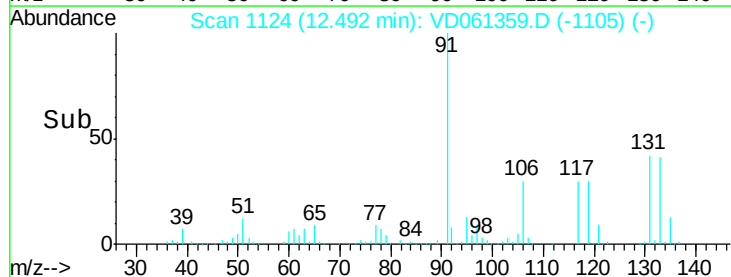
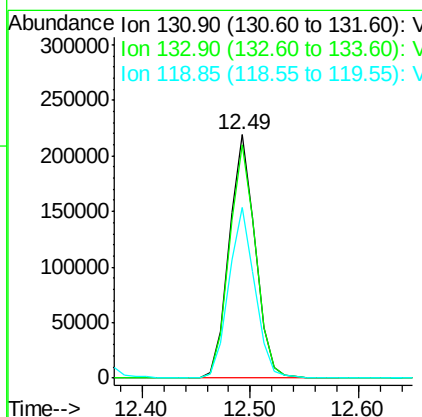
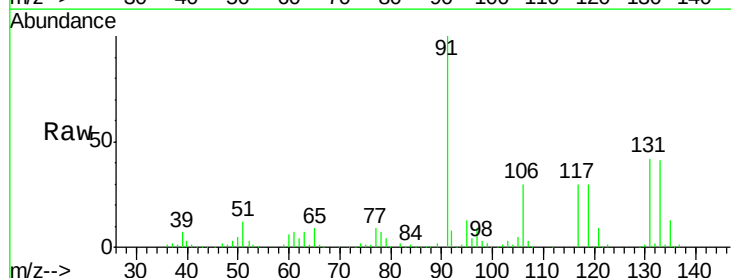
Manual Integrations
APPROVED

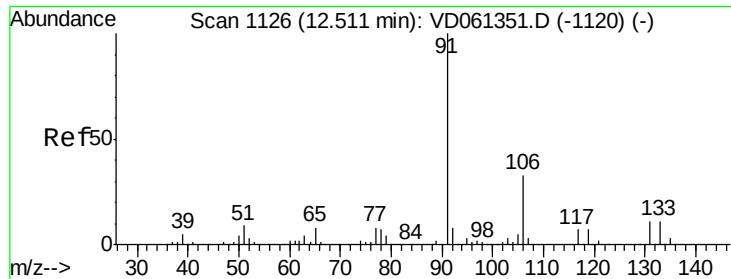
MMDadoda
3/30/2019 12:16:31 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.272 ug/l
RT: 12.49 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion:131 Resp: 366044
Ion Ratio Lower Upper
131 100
133 96.1 49.4 148.2
119 70.3 34.1 102.2





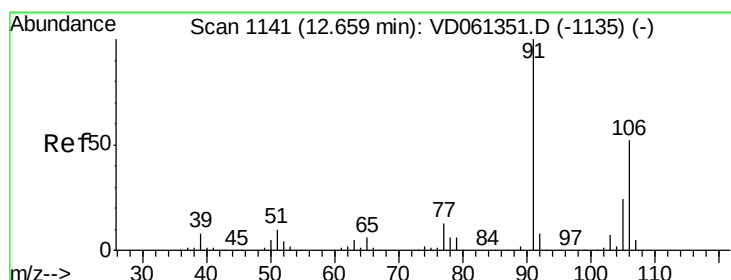
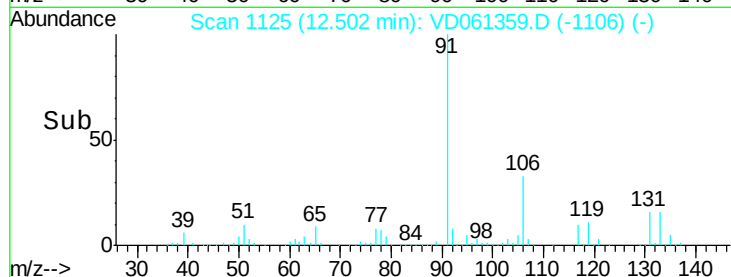
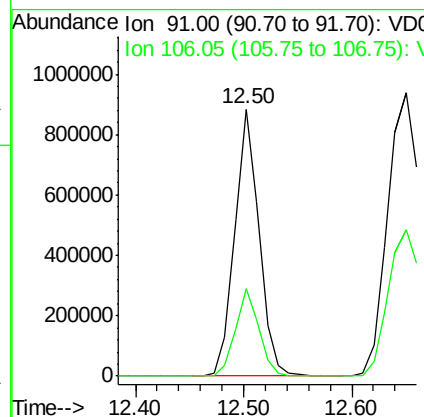
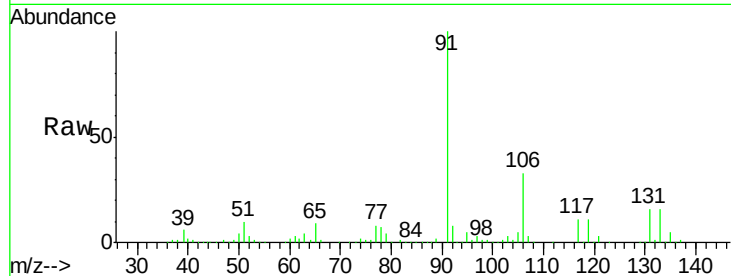
#67
Ethyl Benzene
Concen: 48.220 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 91 Resp: 1384122
Ion Ratio Lower Upper
91 100
106 32.7 26.1 39.1

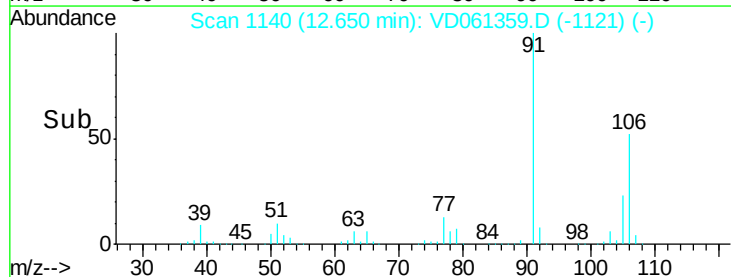
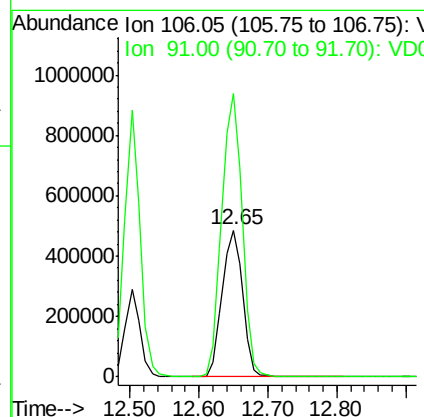
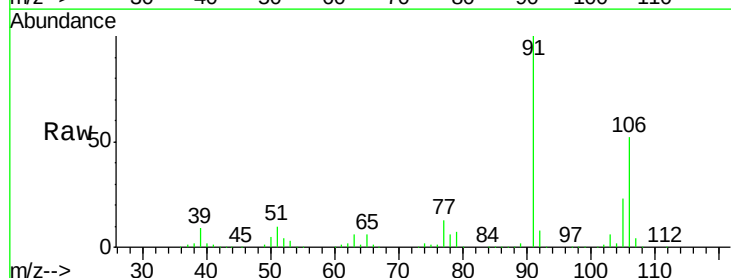
Manual Integrations
APPROVED

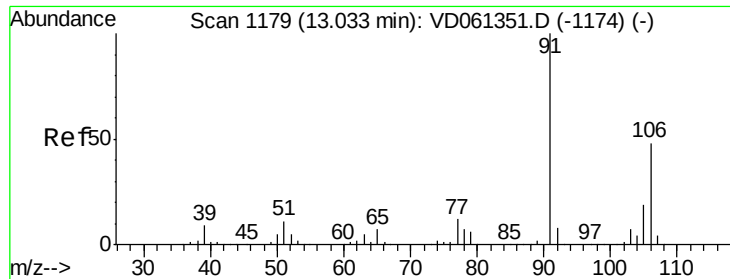
MMDadoda
3/30/2019 12:16:31 AM



#68
m/p-Xylenes
Concen: 92.089 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 106 Resp: 1001306
Ion Ratio Lower Upper
106 100
91 193.1 153.1 229.7





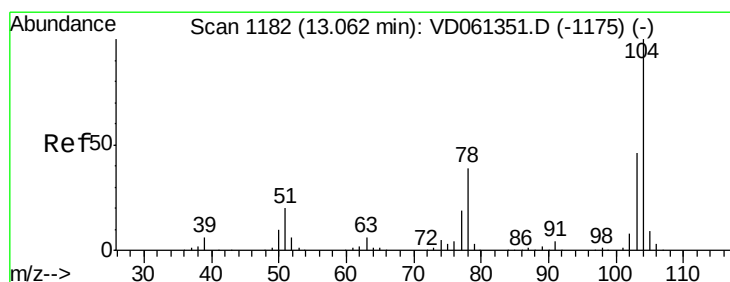
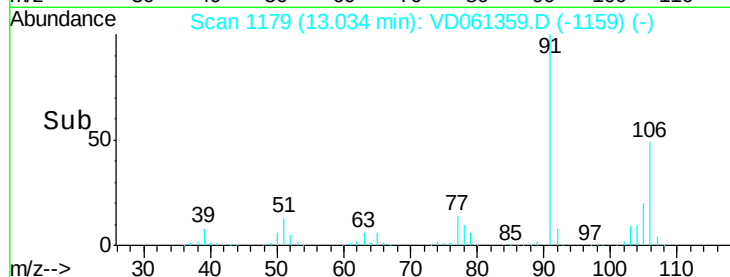
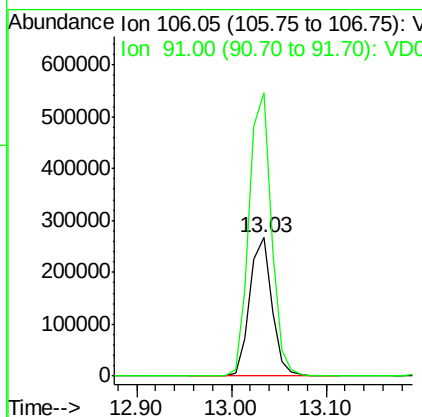
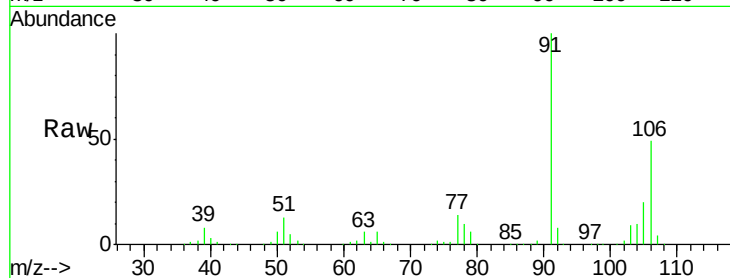
#69
o-Xylene
Concen: 41.072 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion:106 Resp: 433377
Ion Ratio Lower Upper
106 100
91 204.4 103.8 311.3

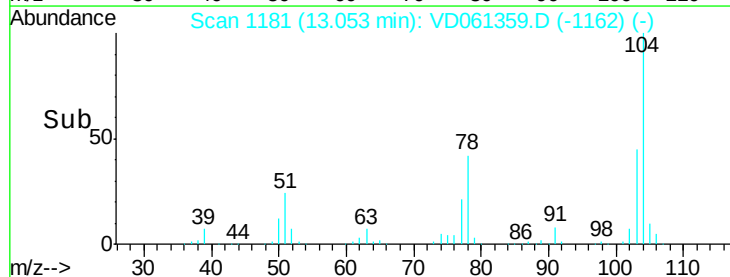
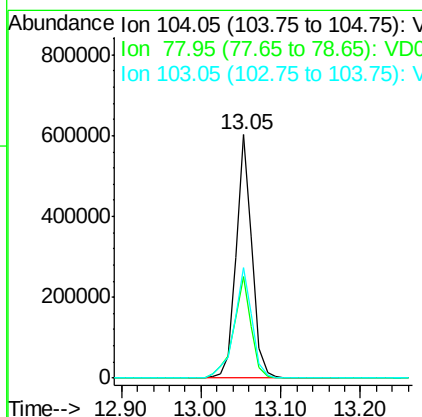
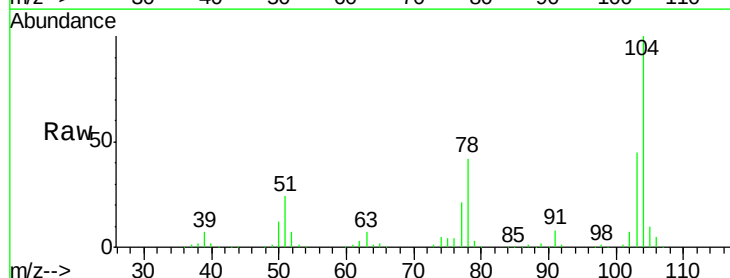
Manual Integrations
APPROVED

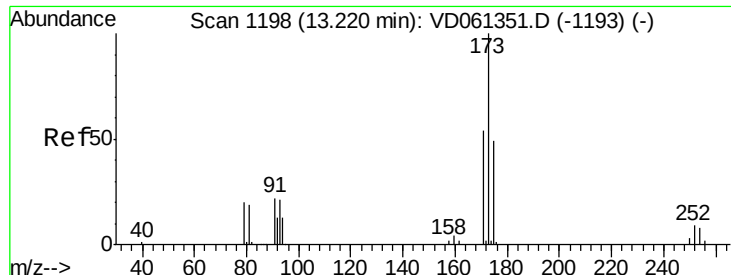
MMDadoda
3/30/2019 12:16:31 AM



#70
Styrene
Concen: 45.603 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion:104 Resp: 838792
Ion Ratio Lower Upper
104 100
78 41.5 31.0 46.6
103 45.4 37.0 55.4





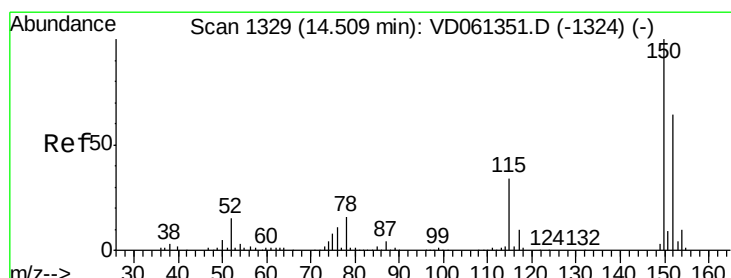
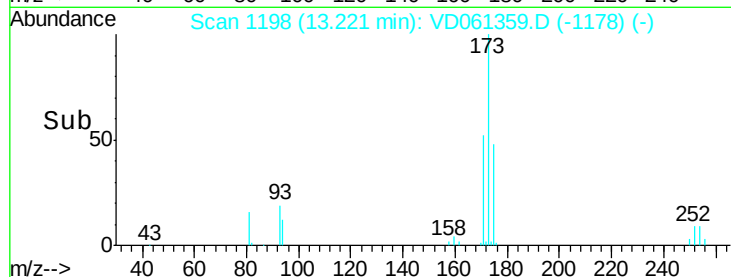
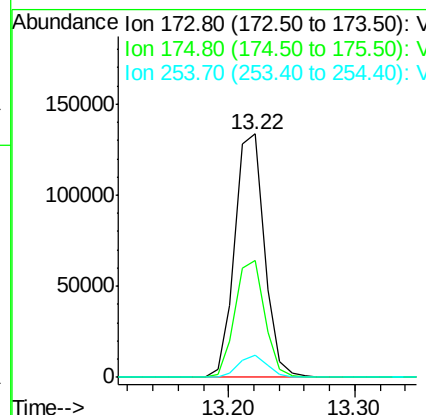
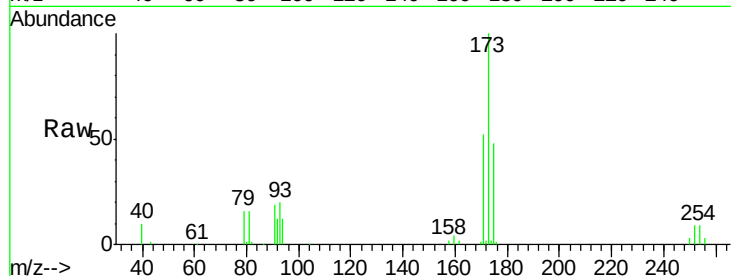
#71
Bromoform
Concen: 46.837 ug/l
RT: 13.22 min Scan# 1198
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	73.8
254	9.3	6.6	10.0

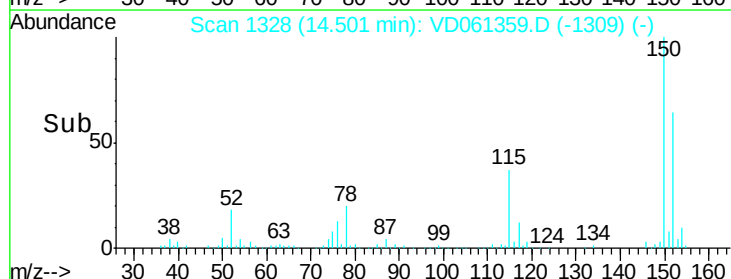
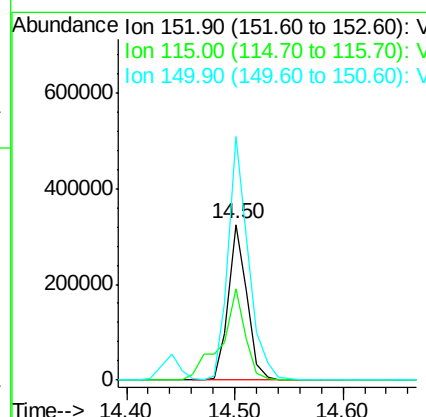
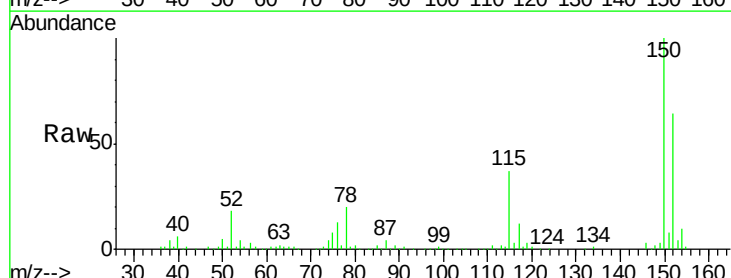
Manual Integrations
APPROVED

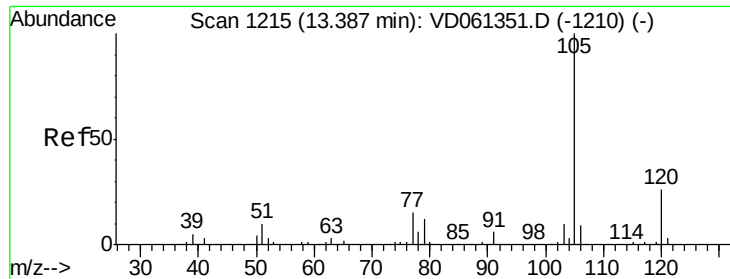
MMDadoda
3/30/2019 12:16:31 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	26.9	80.6
150	156.6	0.0	318.0





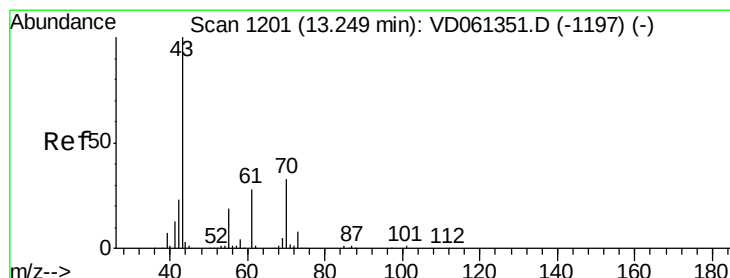
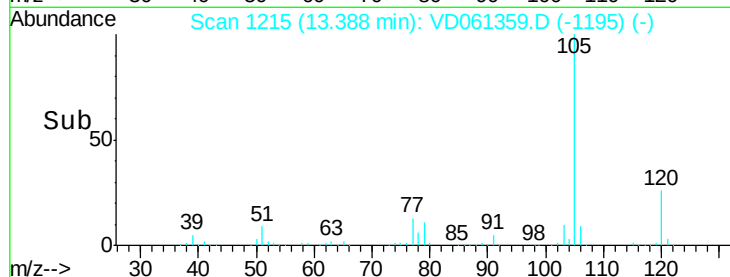
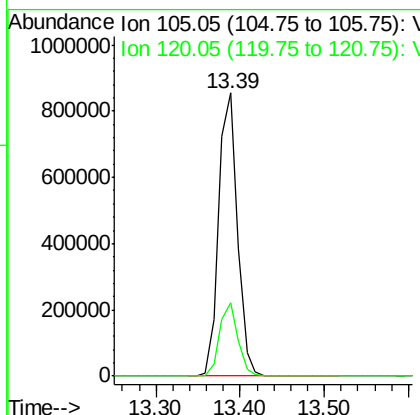
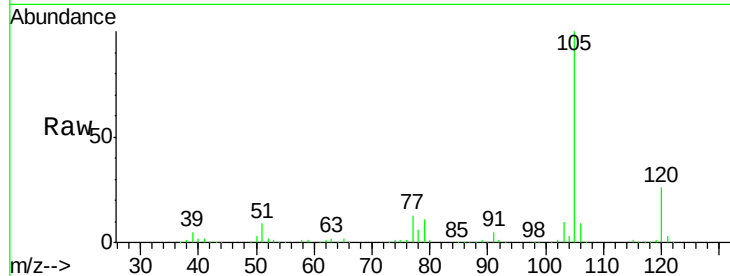
#73
Isopropylbenzene
Concen: 48.938 ug/l
RT: 13.39 min Scan# 1215
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion: 105 Resp: 1321628
Ion Ratio Lower Upper
105 100
120 26.0 12.8 38.3

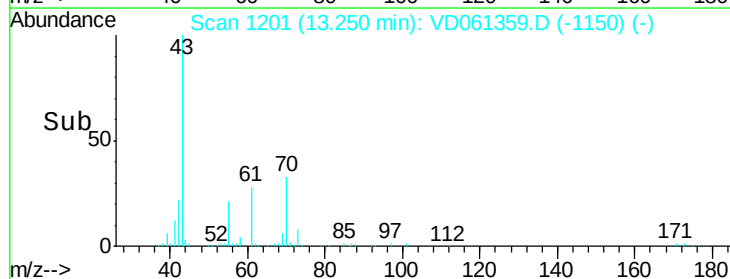
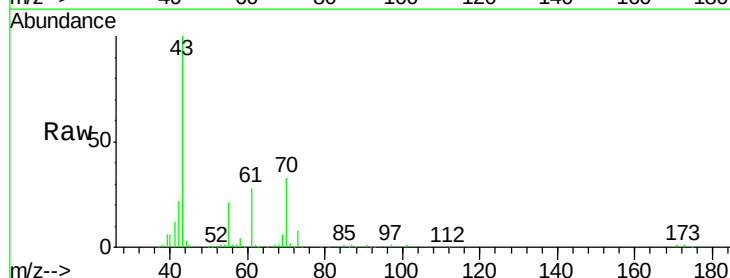
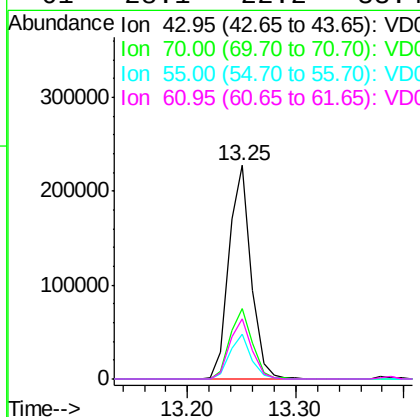
Manual Integrations
APPROVED

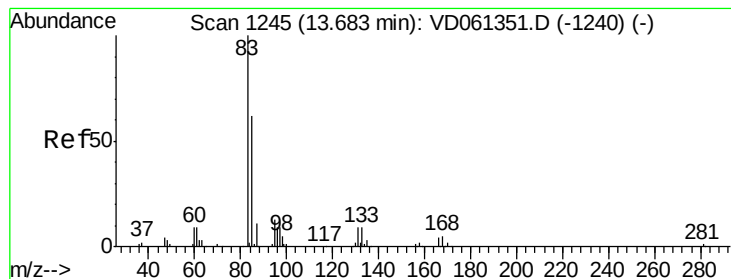
MMDadoda
3/30/2019 12:16:31 AM



#74
N-ethyl acetate
Concen: 42.884 ug/l
RT: 13.25 min Scan# 1201
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion: 43 Resp: 322623
Ion Ratio Lower Upper
43 100
70 33.0 26.6 40.0
55 20.8 15.4 23.2
61 28.1 22.2 33.4





#75

1,1,2,2-Tetrachloroethane

Concen: 50.729 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

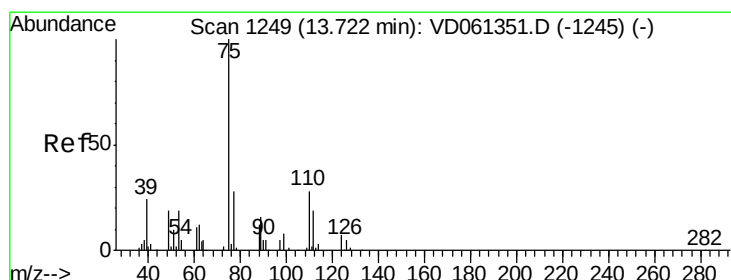
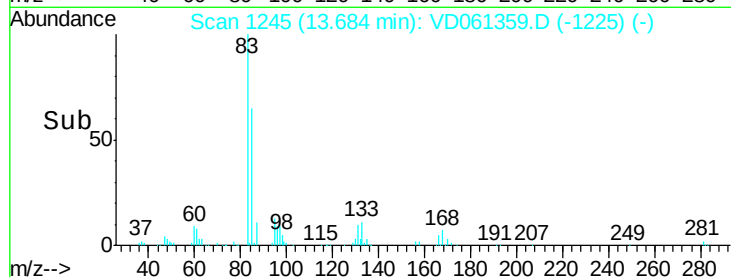
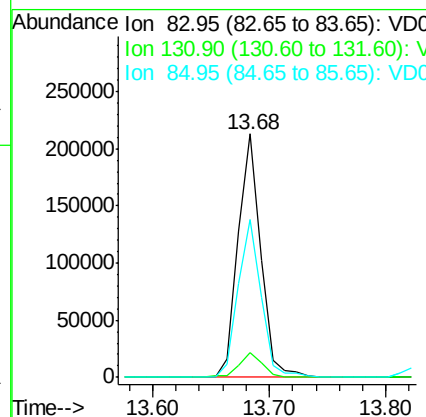
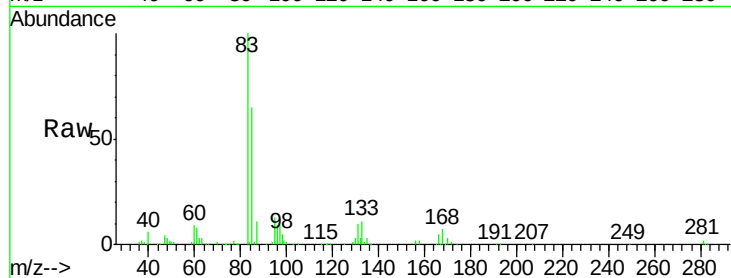
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	83	Resp:	289006
Ion Ratio	Lower	Upper	
83	100		
131	10.3	4.3	13.1
85	65.0	31.2	93.6

Manual Integrations
APPROVED

MMDadoda
3/30/2019 12:16:31 AM



#76

1,2,3-Trichloropropane

Concen: 44.162 ug/l

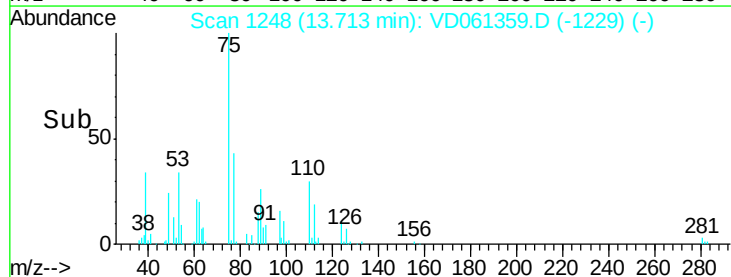
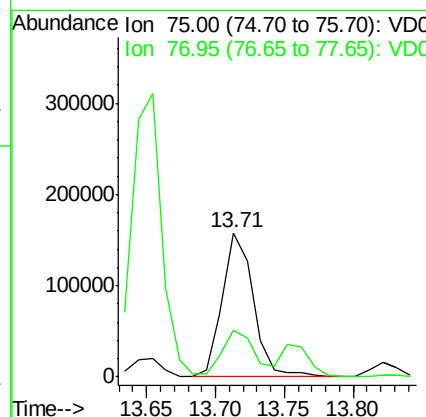
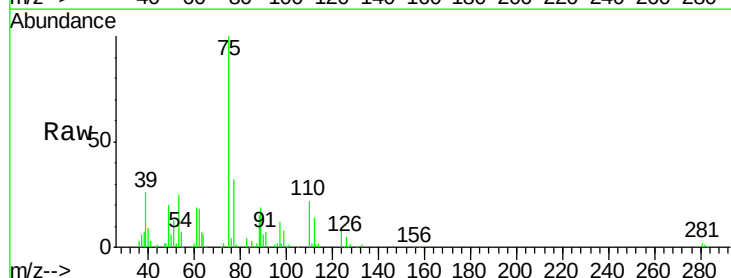
RT: 13.71 min Scan# 1248

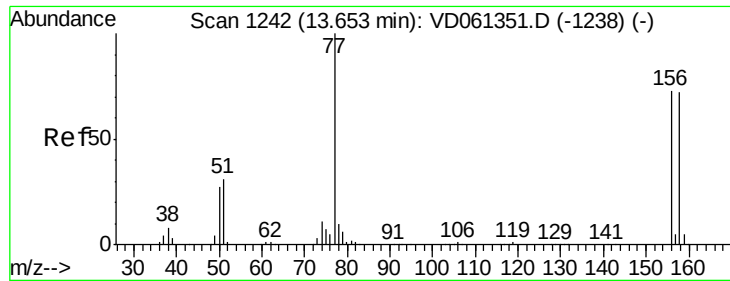
Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	75	Resp:	247538
Ion Ratio	Lower	Upper	
75	100		
77	32.3	16.2	48.5





#77

Bromobenzene

Concen: 47.788 ug/l

RT: 13.65 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

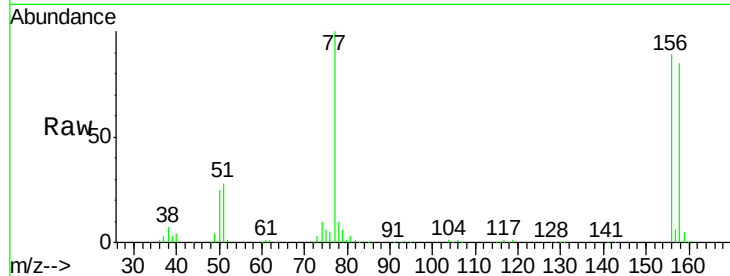
ClientSampleId :

WP022SB431-190320-(21-23)MS

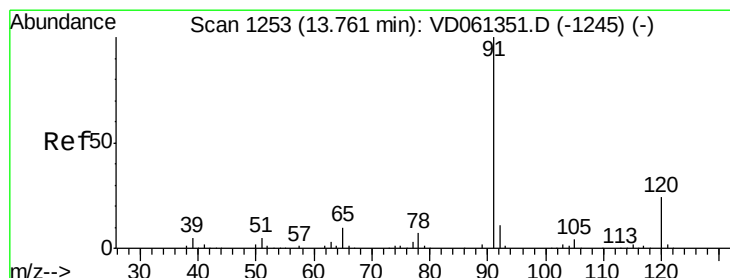
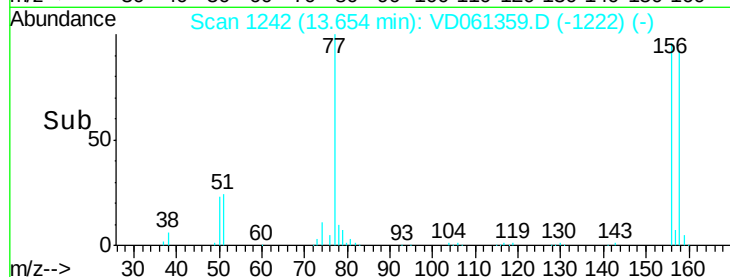
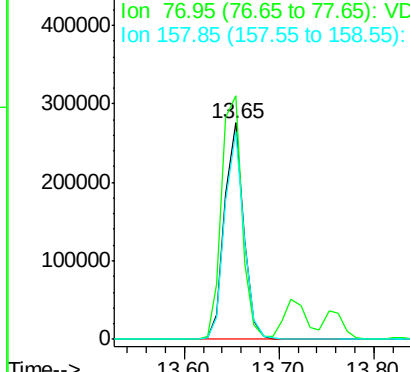
Tgt Ion:	156	Resp:	382606
Ion Ratio	Lower	Upper	
156	100		
77	112.5	68.5	205.6
158	95.8	49.1	147.3

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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: 44.170 ug/l

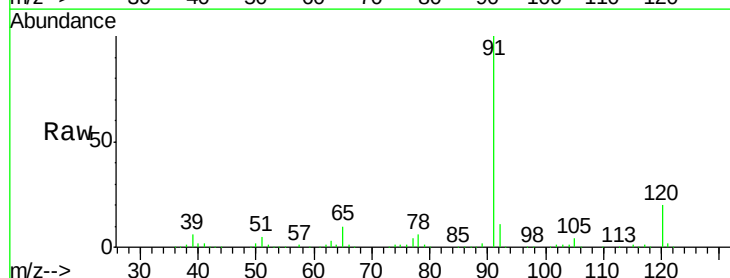
RT: 13.75 min Scan# 1252

Delta R.T. -0.01 min

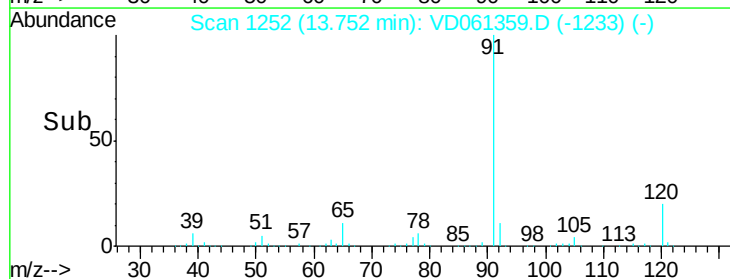
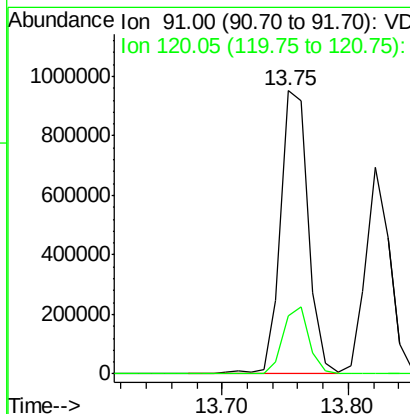
Lab File: VD061359.D

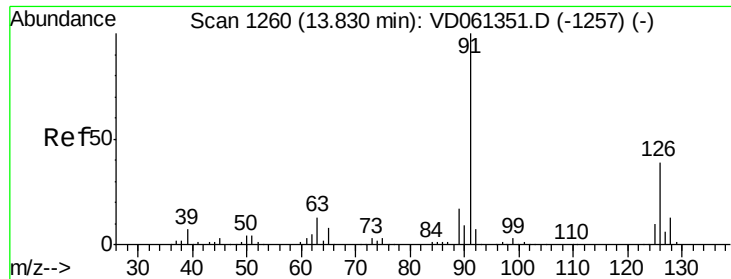
Acq: 27 Mar 2019 17:56

Tgt Ion:	91	Resp:	1459808
Ion Ratio	Lower	Upper	
91	100		
120	20.4	11.8	35.3



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





#79

2-Chlorotoluene

Concen: 51.528 ug/l

RT: 13.82 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion: 91 Resp: 924684

Ion Ratio Lower Upper

91 100

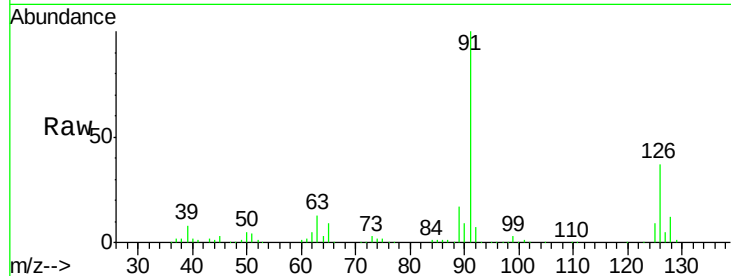
126 36.7 19.4 58.2

Manual Integrations

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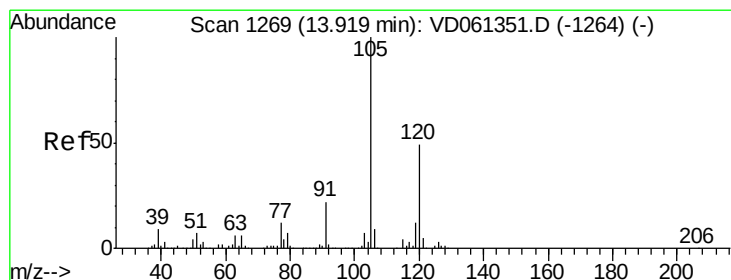
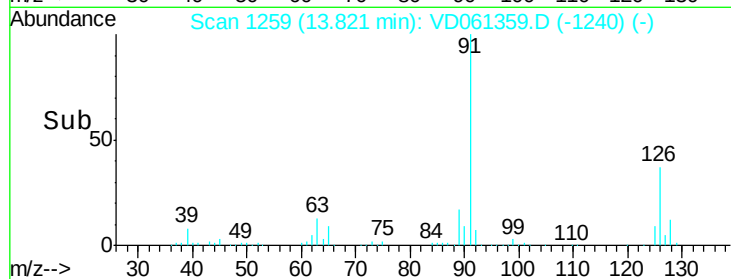
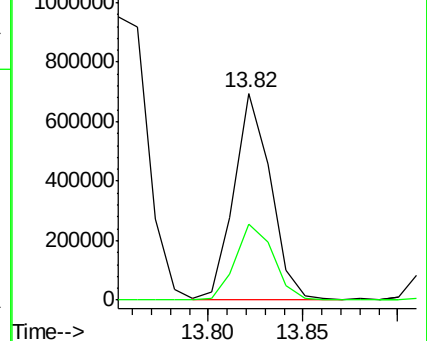
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 48.240 ug/l

RT: 13.92 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VD061359.D

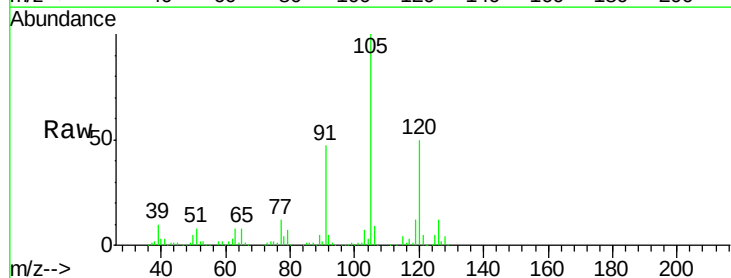
Acq: 27 Mar 2019 17:56

Tgt Ion: 105 Resp: 1010812

Ion Ratio Lower Upper

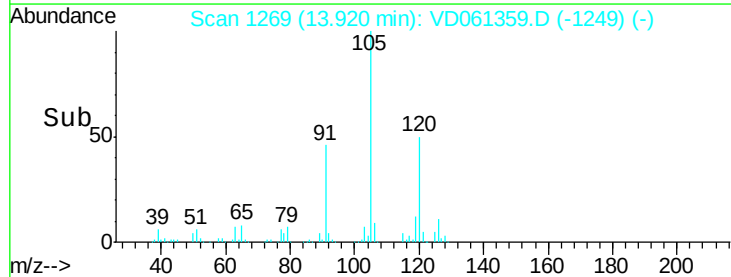
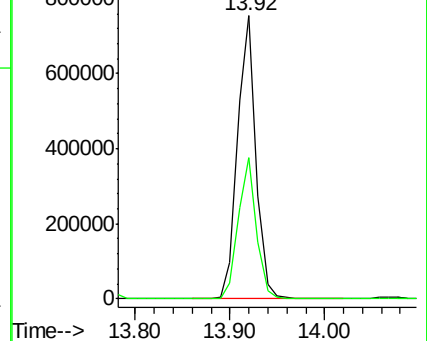
105 100

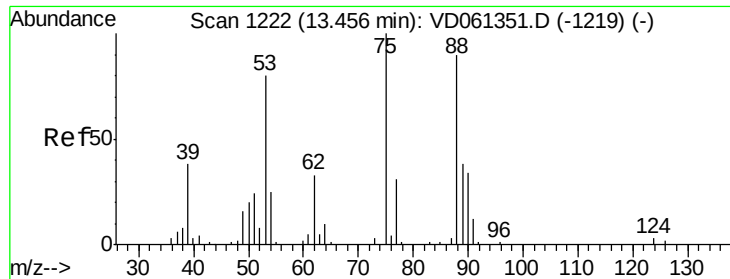
120 49.9 24.6 73.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





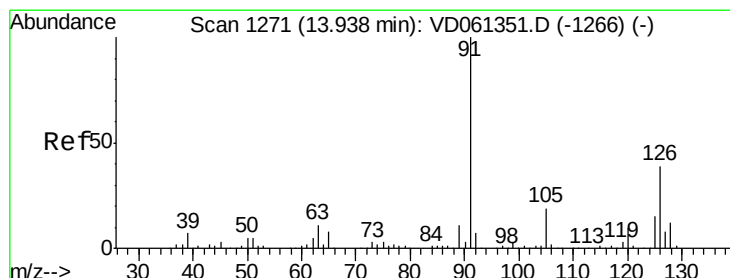
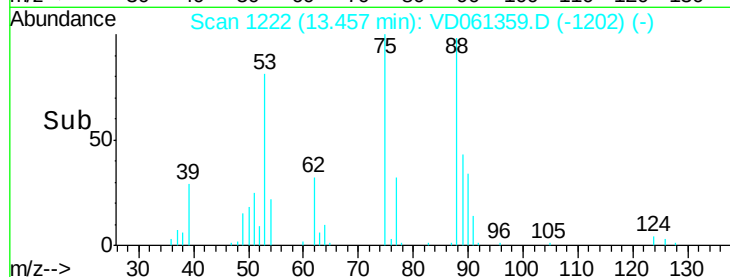
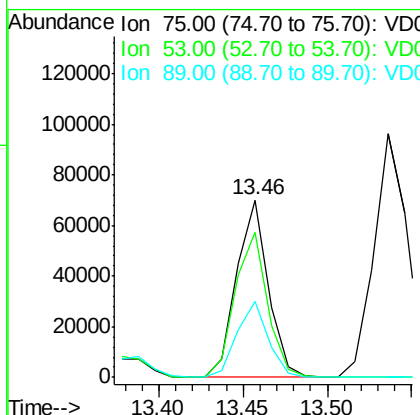
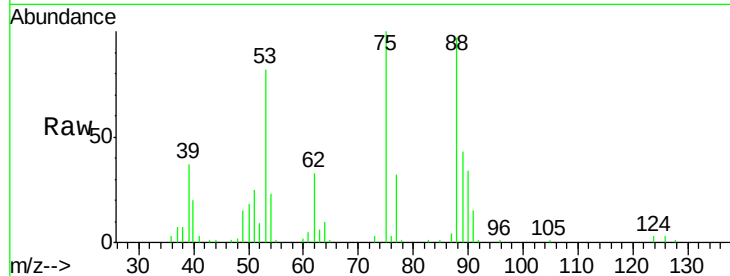
#81
trans-1,4-Dichloro-2-butene
Concen: 53.803 ug/l
RT: 13.46 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
75	100		
53	81.8	63.8	95.8
89	42.6	30.5	45.7

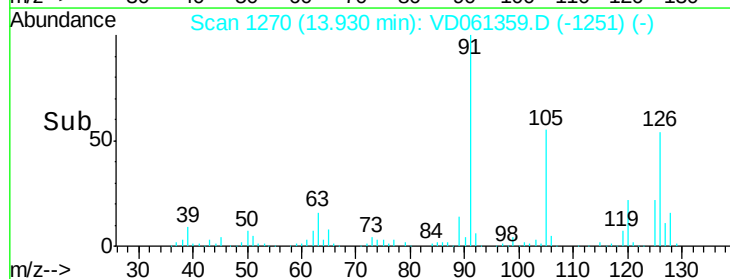
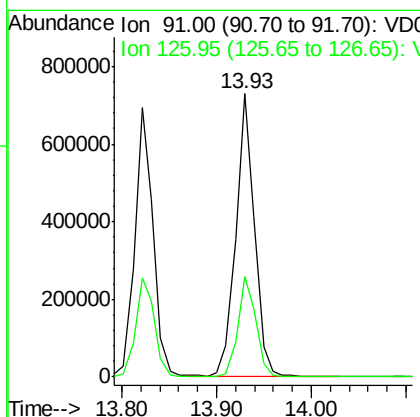
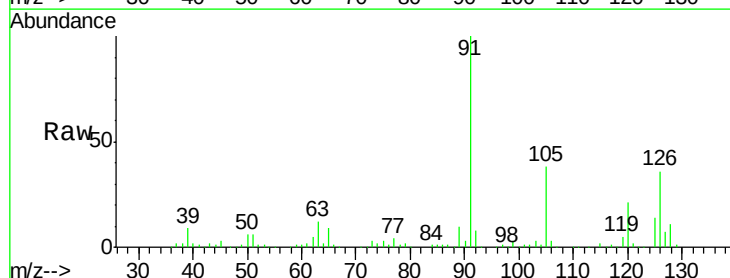
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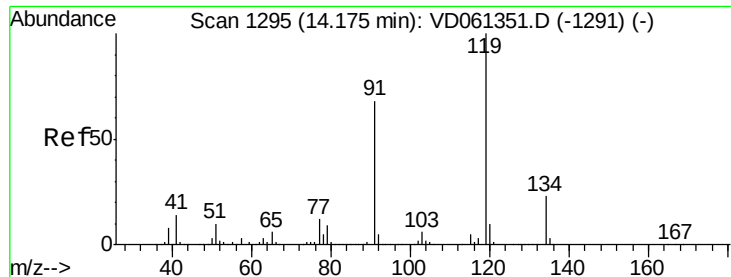
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#82
4-Chlorotoluene
Concen: 51.104 ug/l
RT: 13.93 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	19.6	58.8





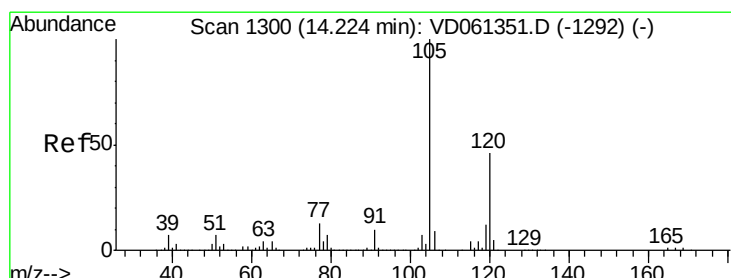
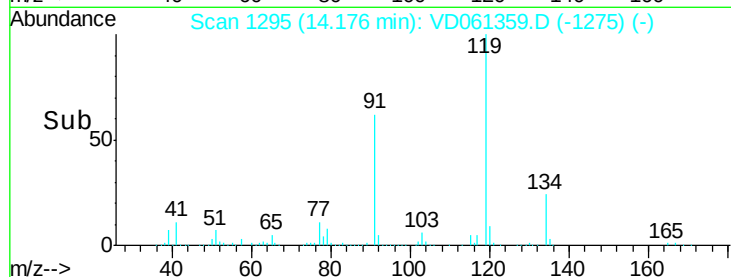
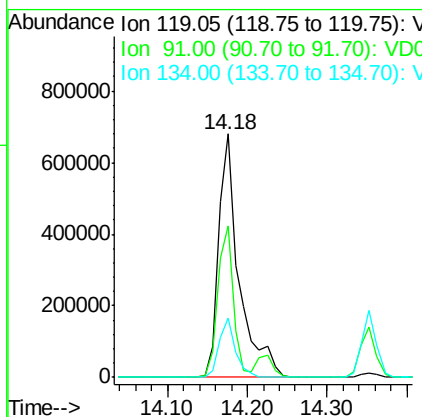
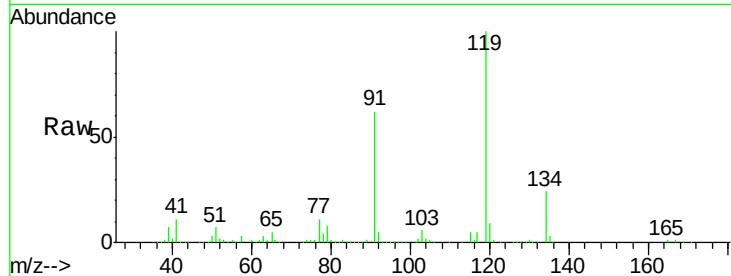
#83
 tert-Butylbenzene
 Concen: 46.695 ug/l
 RT: 14.18 min Scan# 1295
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion:119 Resp: 1222777
 Ion Ratio Lower Upper
 119 100
 91 62.2 34.1 102.3
 134 24.1 11.6 34.8

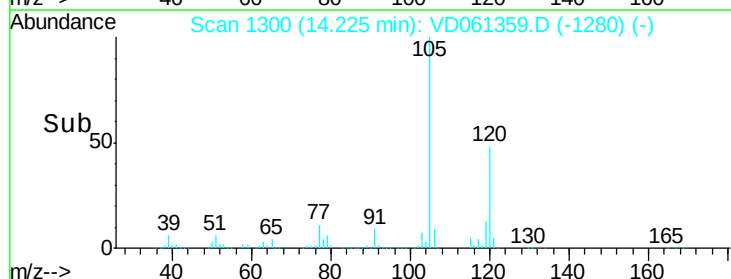
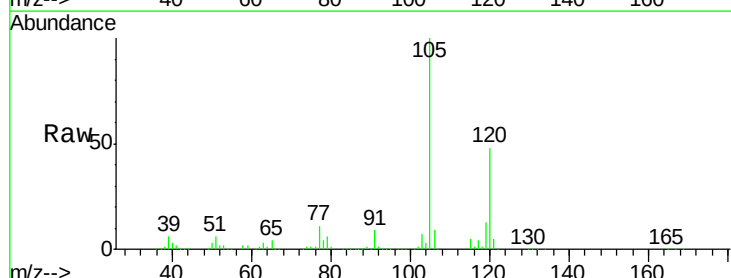
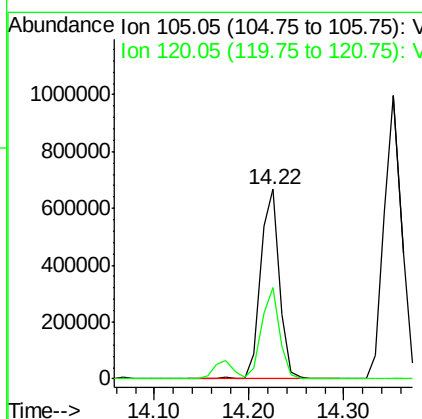
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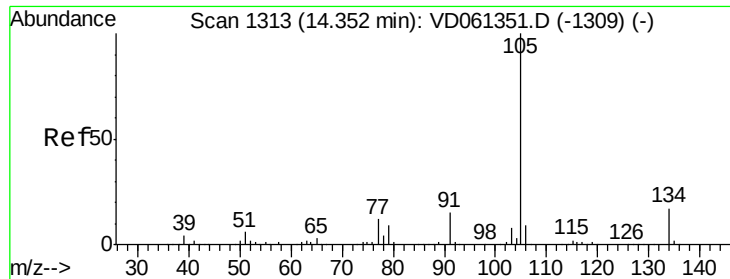
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 40.904 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion:105 Resp: 927906
 Ion Ratio Lower Upper
 105 100
 120 47.9 22.8 68.4





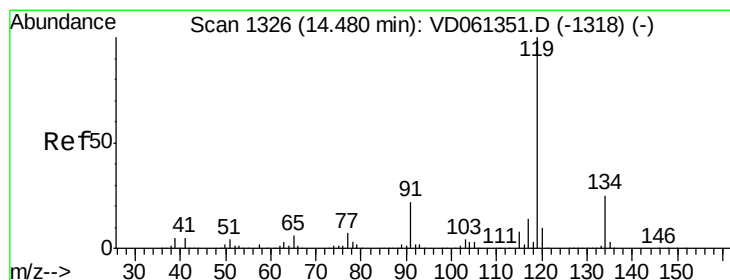
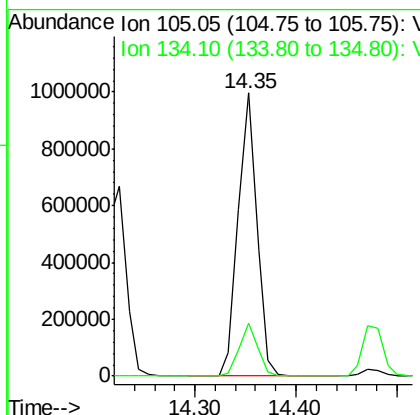
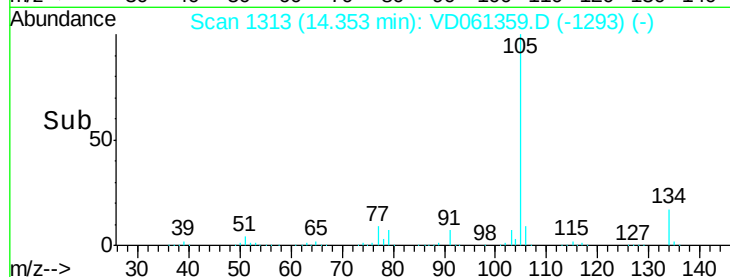
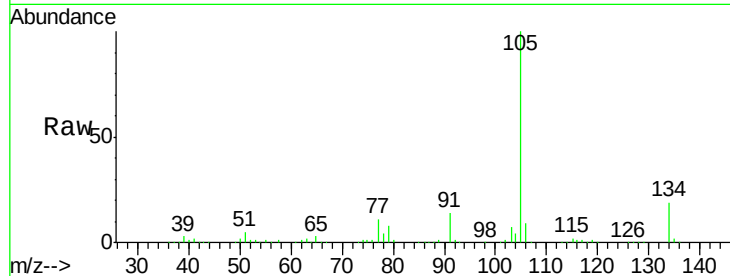
#85
 sec-Butylbenzene
 Concen: 46.279 ug/l
 RT: 14.35 min Scan# 1313
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion:105 Resp: 1287453
 Ion Ratio Lower Upper
 105 100
 134 18.7 8.7 26.1

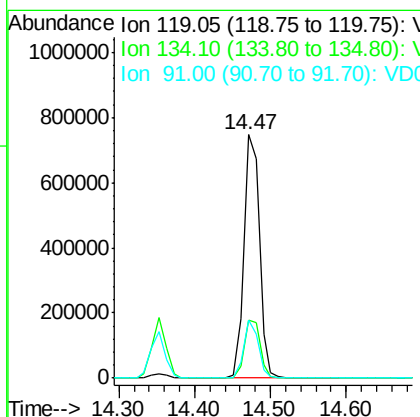
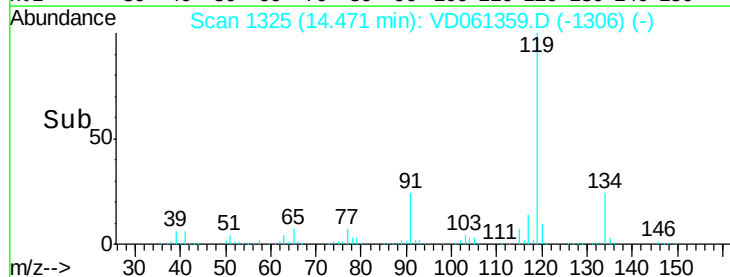
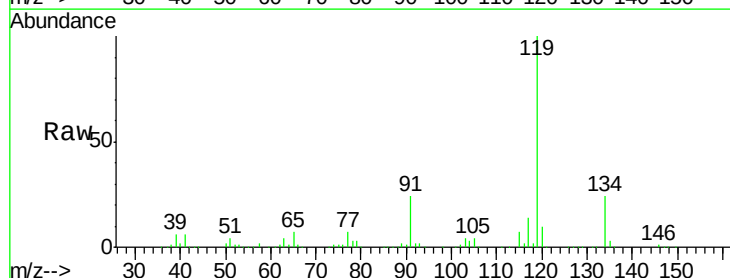
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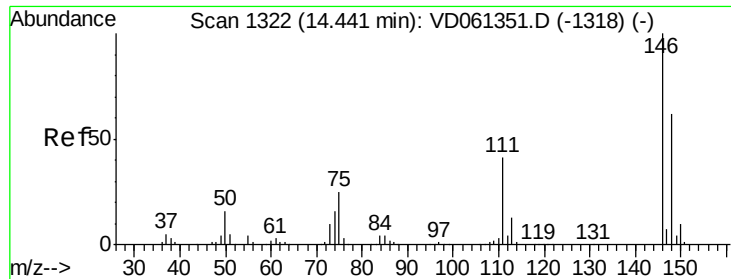
MMDadoda
 3/30/2019 12:16:31 AM



#86
 p-Isopropyltoluene
 Concen: 44.811 ug/l
 RT: 14.47 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion:119 Resp: 1054132
 Ion Ratio Lower Upper
 119 100
 134 24.0 12.3 36.8
 91 23.7 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 46.531 ug/l

RT: 14.44 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Instrument :

MSVOA_D

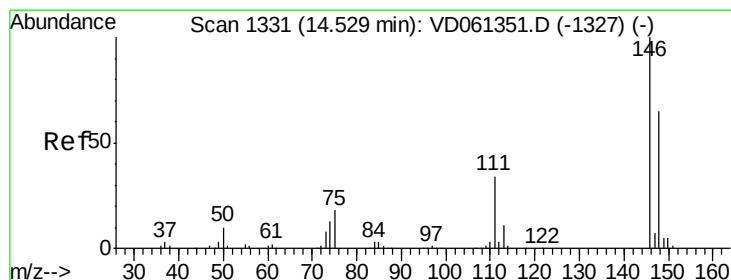
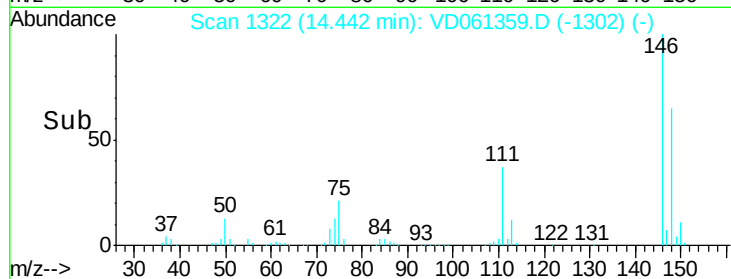
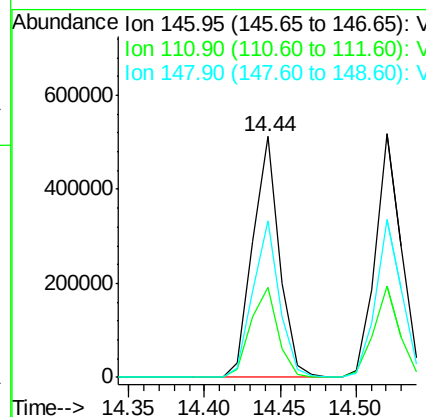
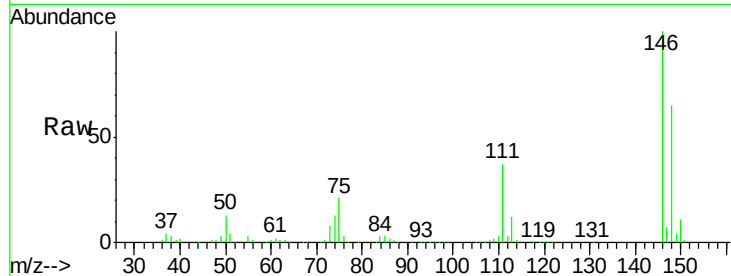
ClientSampleId :

WP022SB431-190320-(21-23)MS

Tgt Ion:	146	Resp:	630856
Ion Ratio	Lower	Upper	
146	100		
111	37.4	20.6	61.9
148	64.9	31.1	93.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 47.216 ug/l

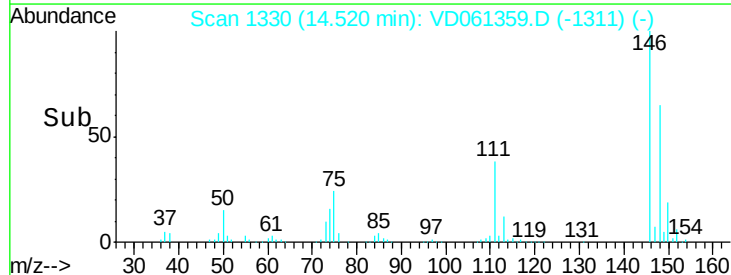
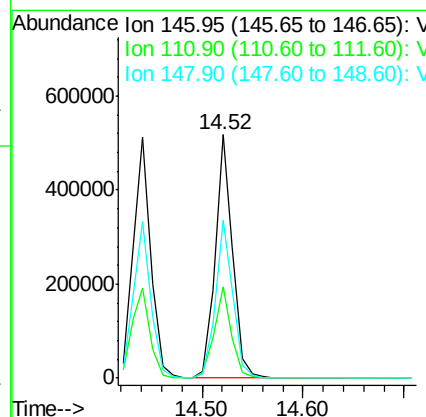
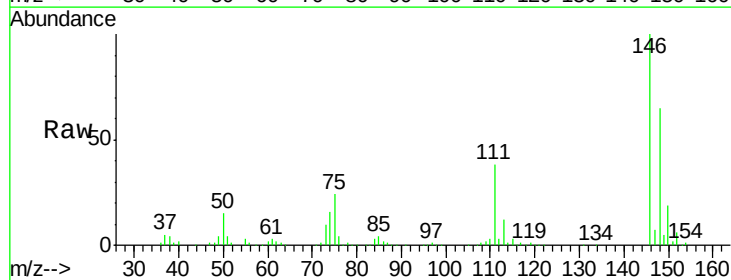
RT: 14.52 min Scan# 1330

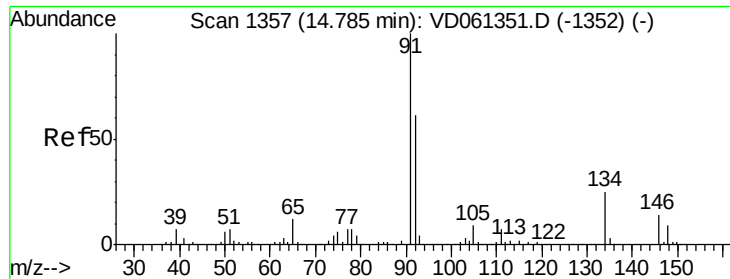
Delta R.T. -0.01 min

Lab File: VD061359.D

Acq: 27 Mar 2019 17:56

Tgt Ion:	146	Resp:	624269
Ion Ratio	Lower	Upper	
146	100		
111	37.7	16.8	50.4
148	65.1	32.6	98.0





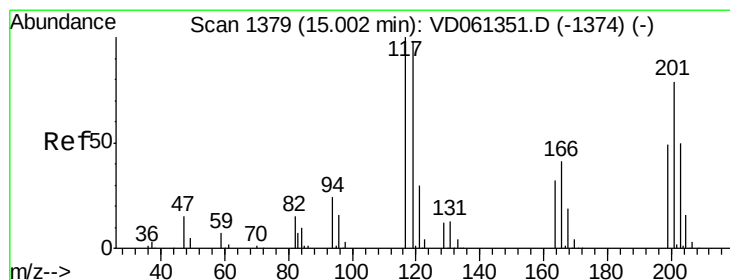
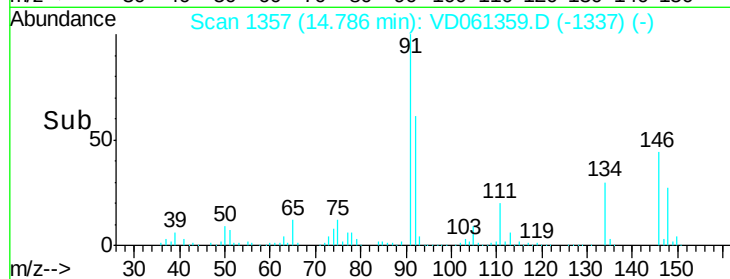
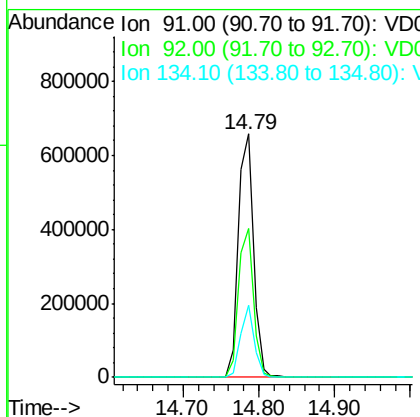
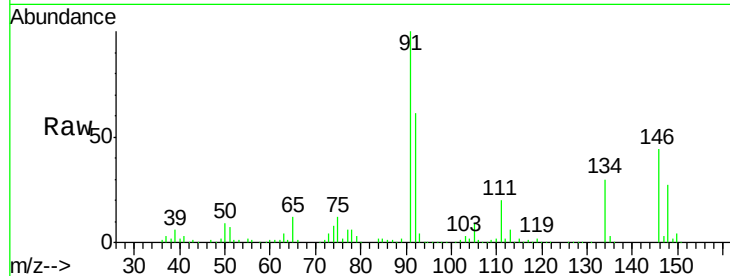
#89
n-Butylbenzene
Concen: 41.685 ug/l
RT: 14.79 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	900034		
92	61.2	30.3	91.0	
134	29.7	12.4	37.0	

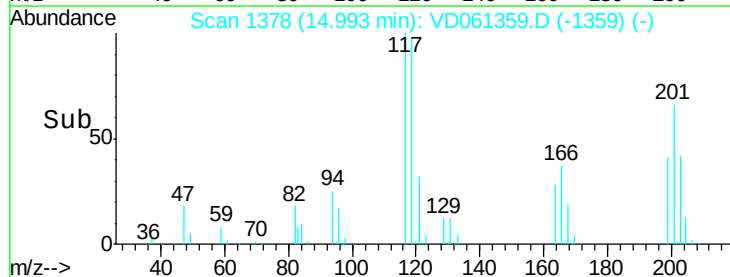
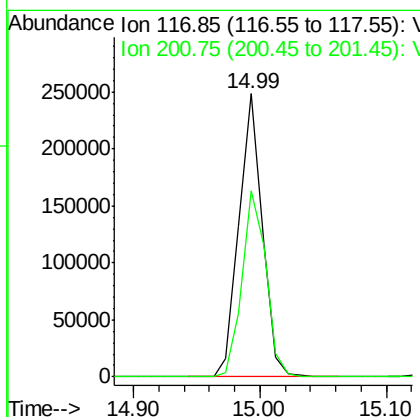
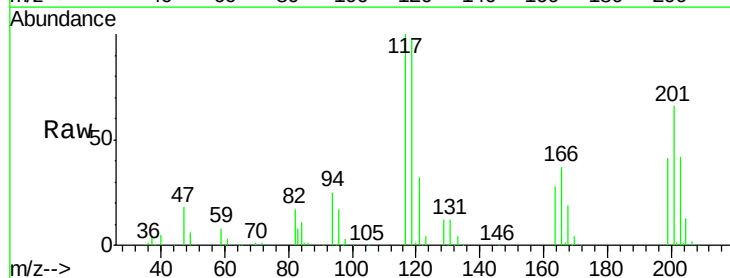
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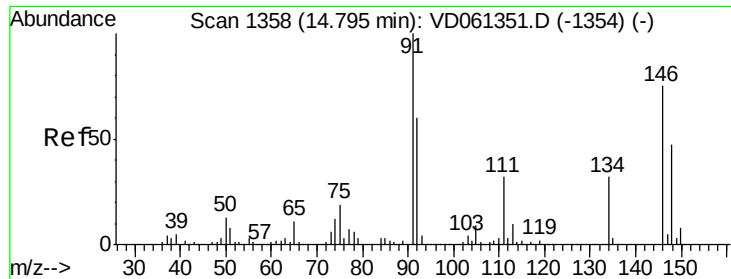
MMDadoda
3/30/2019 12:16:31 AM



#90
Hexachloroethane
Concen: 47.514 ug/l
RT: 14.99 min Scan# 1378
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	315766		
201	65.6	39.6	119.0	





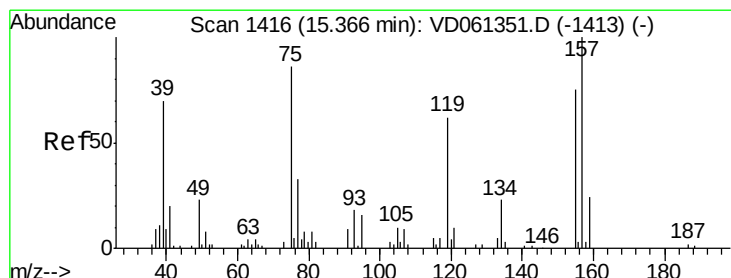
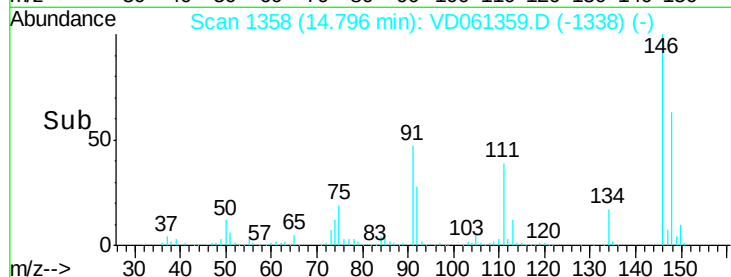
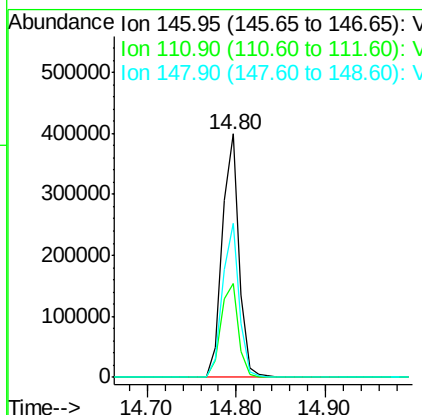
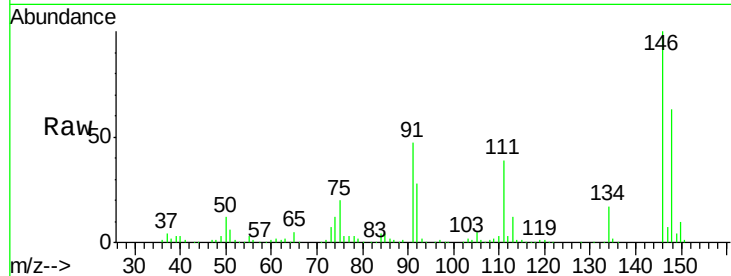
#91
 1,2-Dichlorobenzene
 Concen: 48.053 ug/l
 RT: 14.80 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	21.2	63.6
148	63.1	31.6	95.0

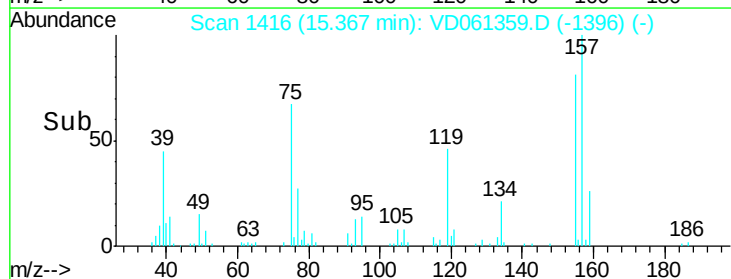
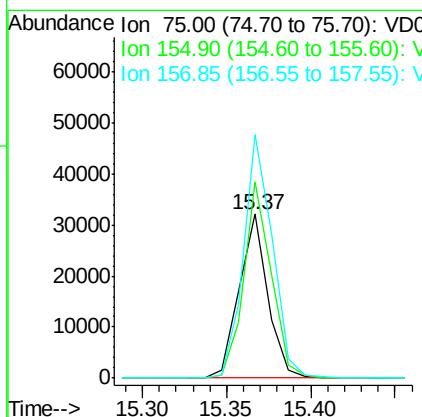
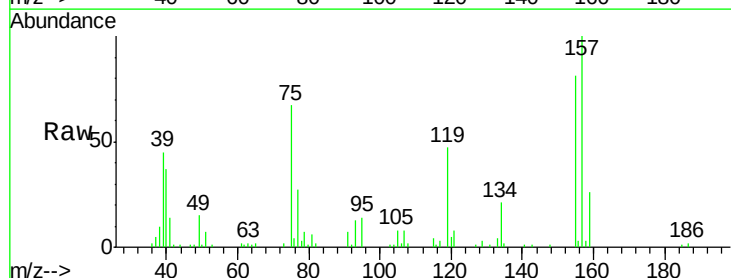
Manual Integrations
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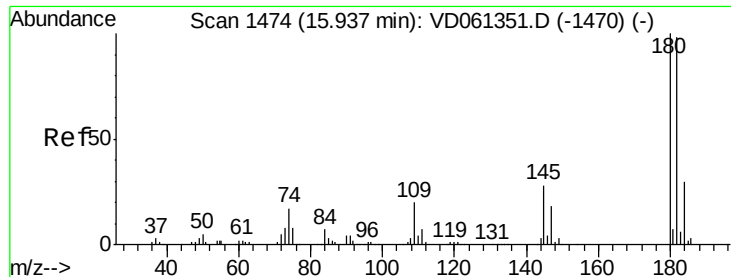
MMDadoda
 3/30/2019 12:16:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 56.387 ug/l
 RT: 15.37 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	120.1	43.6	130.9
157	148.5	58.5	175.3





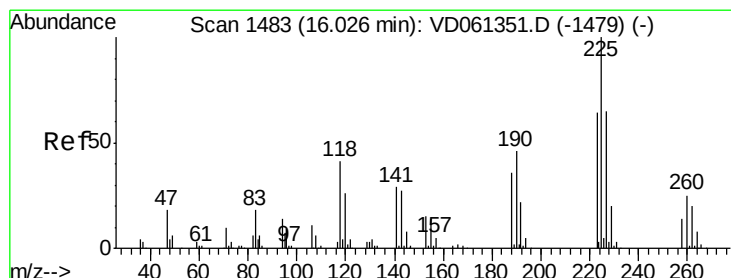
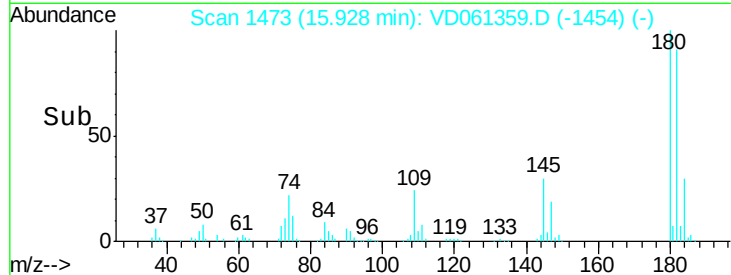
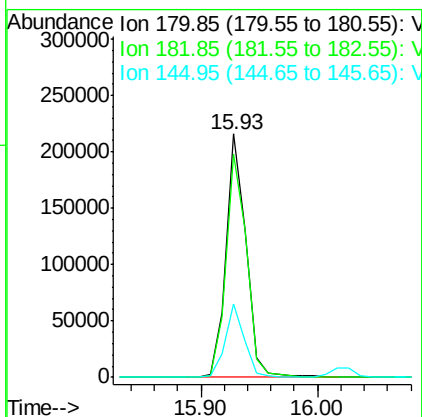
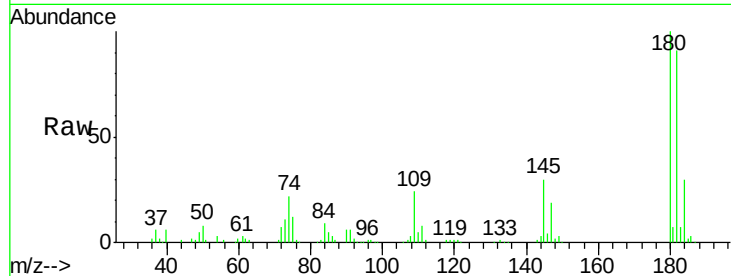
#93
 1,2,4-Trichlorobenzene
 Concen: 50.632 ug/l
 RT: 15.93 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	256497		
182	91.4	48.9	146.8	
145	30.3	14.1	42.3	

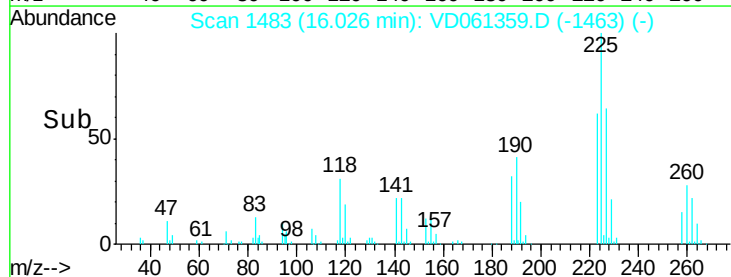
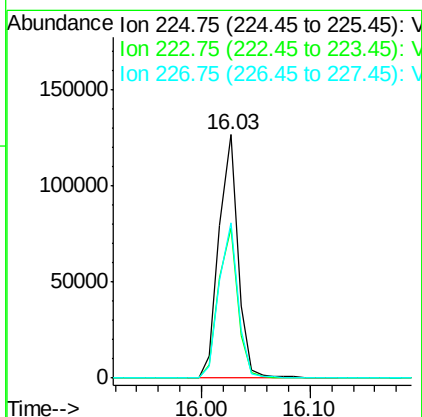
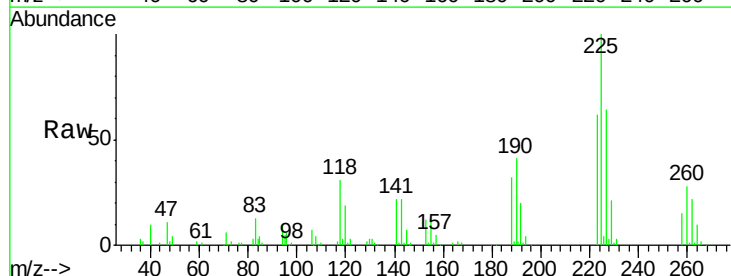
Manual Integrations
 APPROVED

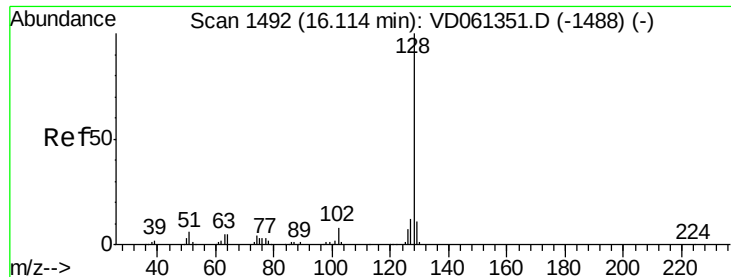
MMDadoda
 3/30/2019 12:16:31 AM



#94
 Hexachlorobutadiene
 Concen: 39.314 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: VD061359.D
 Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	155630		
223	61.9	32.0	96.0	
227	63.9	32.4	97.2	





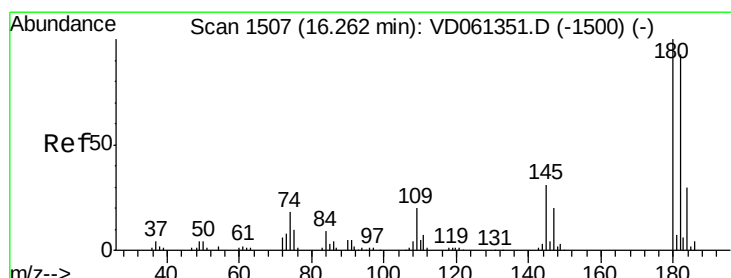
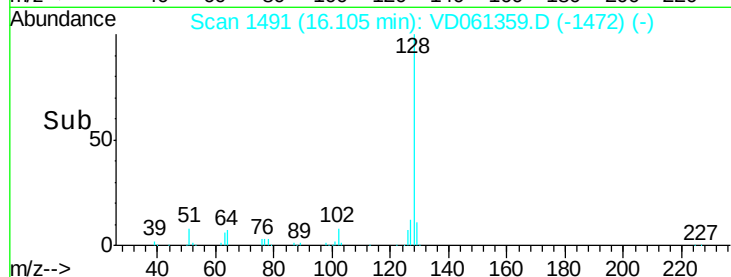
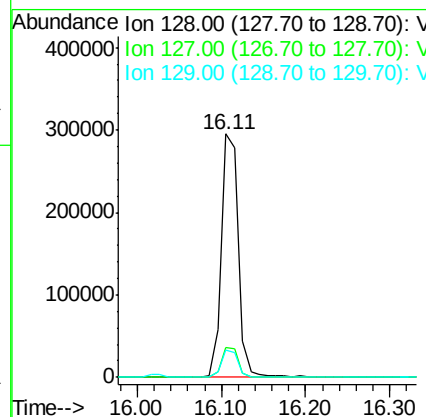
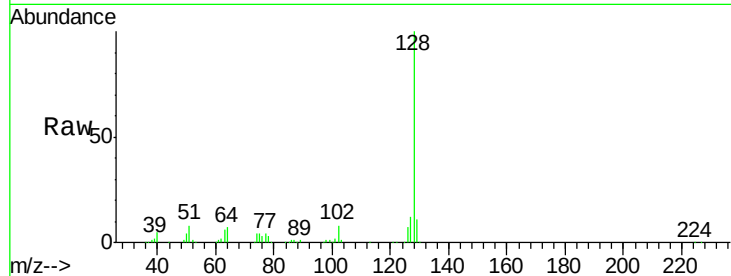
#95
Naphthalene
Concen: 53.436 ug/l
RT: 16.11 min Scan# 1491
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

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

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	412616		
127	12.4	9.9	14.9	
129	11.0	8.9	13.3	

Manual Integrations
APPROVED

MMDadoda
3/30/2019 12:16:31 AM



#96
1,2,3-Trichlorobenzene
Concen: 63.507 ug/l
RT: 16.25 min Scan# 1506
Delta R.T. -0.01 min
Lab File: VD061359.D
Acq: 27 Mar 2019 17:56

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	141572		
182	97.0	46.4	139.1	
145	33.8	15.3	45.9	

